VAUXHALL Antara

Owner's Manual Model Year 2009.0 Edition: July 2008 TS 1664-A-09

Operation, Safety, Maintenance

Data specific to your vehicle

Please enter your vehicle's data here to keep it easily accessible. This information is available under the section "Technical data" as well as on the identification plate.

Fuel

Designation	
Grade	
Viscosity	

Engine oil

Tyre	pressure
------	----------

Tyre size	for loa	d of up to 4 persons	for ful	l load
Summer tyres	Front	Rear	Front	Rear
Winter tyres	Front	Rear	Front	Rear

Weights

Permissible Gross Vehicle Weight - EC kerbweight = Payload

Your Antara

is an intelligent combination of forwardlooking technology, impressive safety, environmental friendliness and economy.

It now lies with you to drive your vehicle safely and ensure that it performs perfectly. This Owner's Manual provides you with all the necessary information to that end.

Make sure your passengers are aware of the possible risk of accident and injury which may result from improper use of the vehicle.

You must a lways comply with the specific laws of the country that you are travelling through. These laws may differ from the information in this Owner's Manual.

When instructed to consult a workshop, we recommend that you consult a Vauxhall Authorised Repairer.

All Vauxhall Authorised Repairers offer first-class service at reasonable prices.

You will receive quick, reliable and individual service.

Experienced mechanics, trained by Vauxhall, work according to specific Vauxhall instructions.

The Owner's Manual should always be kept together with the Service and Warranty Booklet in the vehicle: Ready to hand in the glove compartment.

Make use of the Owner's Manual:

- Its "In brief" section will give you an initial overview.
- The table of contents at the beginning of the Owner's Manual and within the individual chapters will show you where everything is.
- Its index will help you find what you want.
- It will familiarise you with the sophisticated technology.
- It will increase your pleasure in your vehicle.
- It will help you to hand le your vehicle expertly.

The Owner's Manual is designed to be clearly laid-out and easily understood.

This symbol signifies:

- Continue reading on next page.
- The asterisk signifies equipment not fitted to all vehicles (model variants, engine options, models specific to one country, optional equipment, Vauxhall genuine parts and accessories).



Text marked Δ **Warning** provides information on risk of accident or injury. Disregard of the instructions may lead to injuries or endanger life.

Inform your passengers accordingly.

Yellow arrows in the illustrations serve as points of reference or indicate some action to be performed.

Black arrows in the illustrations indicate a reaction or a second action to be performed.

Directional data, e.g. left or right, or front or back, in the descriptions always relates to the direction of travel.

Thank you for choosing a Vauxhall. We wish you many hours of pleasurable driving

Your Vauxhall Team

Contents

Handling characteristics

All Wheel Drive vehicles have a high centre of gravity due to the increased ground clearance required for off-road use.

As with other vehicles of this type, failure to operate the vehicle correctly may result in loss of control or an accident.

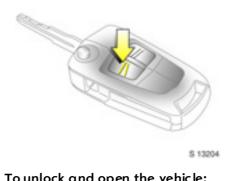
Please read the sections "All Wheel Drive" on page 117 and "Driving hints" on page 123.

Commitment to customer satisfaction

Our aim: to keep you happy with your vehicle. All Vauxhall Authorised Repairers offer first-class service at competitive prices. Experienced, factory-trained technicians work according to factory instructions. Your Authorised Repairer can supply you with GEN UINE VAU XHALL-APPRO VED PARTS, which have und ergone stringent quality and precision checks, and of course useful and attractive VAUXHALL-APPROVED ACCESSORIES. Our name is your guarantee!

For details of the Vauxhall Authorised Repairer Network, please ring this number; 0845 090 2044

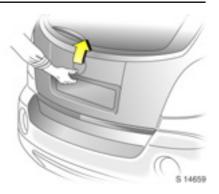
In brief
Locks, doors, windows 17
Seats, interior 32
Instruments, controls 66
Lighting
Infotainment system 97
Climate control 99
Driving and operation 111
Self-help, vehicle care 167
Service, maintenance
Technical data 208
Index



To unlock and open the vehicle: Press button \geq , pull door handle

► Door locks - see pages 26, 68, keys - see page 17, electronic im mobiliser - see page 18, radio frequency remote control see page 19, central locking system - see page 21, anti-theft locking system - see page 23,

Vauxhall a larm system - see page 23.



To unlock and open the tailgate: Press button \geq on remote control, operate button above number plate

► Tailgate - see page 22, radio frequency remote control see page 19, central locking system - see page 21, Vauxhall alarm system - see page 23.



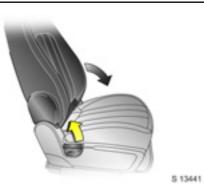
S 16645

Front seat adjustment: Pull handle, slide seat, release handle

Seats - see page 32, seat position - see page 34.

▲Warning

Important: Do not sit nearer than 10 inches (25 cm) from the steering wheel, to permit safe airbag deployment.



Adjusting front seat backrests: Lift release lever on outboard side of seat

Move seat backrest to suit seating position.

Do not lean on seat backrest whilst adjusting it.

► Seats - see page 32, seat position - see page 34.



Adjusting the lumbar support ***:** Turn handwheel

Adjust lumbar support to suit personal requirements.

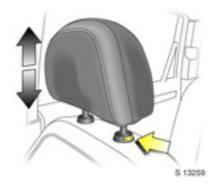


Adjusting seat height **%:** Raise or lower lever on outboard side of seat

Lever pumping action

upward: raises seat downward: lowers seat

► Seats - see page 32, seat position - see page 34.



Adjusting head restraint height: Press release button, adjust height, then release

► Head restraints - see page 35, head restraint position – see page 35.



Fitting seat belt: Draw seat belt smoothly from inertia reel, guide over shoulder and engage in buckle

The belt must not be twisted at any point. The lap belt must lie snugly against the body.

The backrests must not be tilted back too far (recommended maximum tilting angle app rox. 25°).

To release belt, press red button on belt buckle.

► Seat belts - see pages 39 to 43, airbag systems - see page 48, seat position - see page 34.



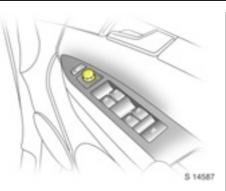
S14586

To adjust interior mirror: Swivel mirror housing

Swivel lever on underside of mirror housing to reduce dazzle at night.

Take care when driving with interior mirror adjusted for night vision. Rearview may be slightly distorted in this position.

► Mirrors - see page 27, automatic anti-dazz le interior mirror see page 28.

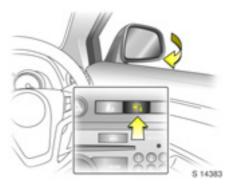


Electrically adjustable exterior mirrors:

Four way switch in driver's door

Move selector switch to L or R; four way switch adjusts corresponding mirror.

► Further information, automatic anti-dazzle exterior mirrors see page 27, heated exterior mirrors - see page 101.



Fold in exterior mirrors:

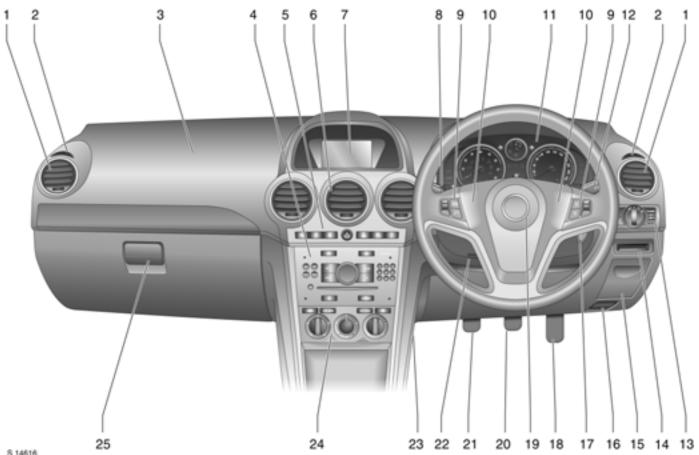
Manually: press lightly.

Electrically $\stackrel{\bullet}{\star}$: with starter switch in positions ACC or ON, press button $\stackrel{\bullet}{\to}$ and both mirrors will fold in.

Press button $\ \ \mathbf{E}$ again; both mirrors willfold to the driving position.

If a folded-in electric mirror has been folded out manually, pressing button any folds the other mirror out. Pressing button again folds both mirrors back in.

Fold mirrors back into driving position before driving the vehicle.



S 14616

	Page
1	Side air vents 100
2	Door window defroster vents 100
3	Front passenger's airbag48
4	Infotainment system97
5	Haza rd warning10Parking distance sensors *138Descent Control System (DCS)134Electronic Stability Control(ESC)(ESC)132Front passenger'sseat belt remind er *Seat belt remind er *26Control indicator forYauxhall alarm system *Yauxhall alarm system *25
6	Centre air vents 100
7	Central information display for time, date, outside temperature, Infotainment system, check control *
8	Headlight flash and main beam10 turn signal lights

	Page
9	Infotainment system remote control buttons97 Trip computer ¥
10	Horn 11
11	Instruments 66
12	Windscreen and tailgate wiper and wash11, 12 headlight wash % 12
13	Parking lights
	fog tail light
14	Card holder63
15	Coin storage 63

	Page
16	Bonnet release 167
17	Starter switch9
18	Accelerator pedal 123
19	Driver's airbag 48
20	Brake pedal123, 142
21	Clutch pedal *123, 124
22	Steering wheel a djustment
23	Fusebox 178
24	Climate control
25	Glove compartment 60, 101

Control indicators

- (ABS) ABS (Anti-lock Brake System): see page 144.
- -J Trailer indicator *: see page 66.
- (D)(P) Brake system: see pages 66, 141.
- Pm Parking distance sensors *: see pages 67, 138.
- DCS (Descent Control System): see pages 67, 134.
- AWD (All Wheel Drive): see pages 67, 117.
- ESC Active δ Warning
 (Electronic Stability Control): see page 132.
- BSC Not Ready: see page 132.
- ESC OFF: see page 132.
- Automatic headlight range adjustment *: see pages 67, 93.
- Le Coolant temperature: see pages 67, 191.

- Electronic immobiliser: see pages 18, 68.
- Door open: see page 68.
- Engine electronics, transmission electronics *: see pages 68, 130.
- Airbag systems *, belt tensioners: see pages 40, 48.
- **Tailgate open:** see page 68.
- Driver's seat belt reminder: see page 68.
- ↓ Turn signal lights: see pages 10, 68, 91.
- Low fuel level: see pages 68, 72, 128, 218.
- **Front fog lights:** see pages 69, 92.
- **∫‡ Fog tail light:** see pages 69, 92.
- **ED** Headlight main beam: see pages 10, 69, 91.
- Low windscreen wash fluid: see page 69.

- Water in diesel fuel filter ***:** see pages 69, 190.
- Change engine oil *: see page 69.

Û

- Preheating for diesel engines *: see pages 15, 69.
- DPF (Diesel particle filter)*: see pages 69, 131.
- Cruise control *: see page 136.
- Engine oil level *: see page 69.
- •! Power steering: see page 69.
- Anti-theft alarm system activation without monitoring of passenger compartment and vehicle tilt *****: see page 24.
- Engine oil pressure: see page 70.
- Alternator: see page 70.
- Exhaust emissions: see pages 70, 130.
- WINTER Winter programme: see pages 70, 113.



Steering column lock and ignition: Turn key to position ACC. To release lock, rotate steering wheel slightly

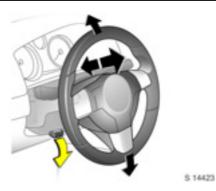
Positions:

LOCK	=	Ignition	off
------	---	----------	-----

ACC = Steering unlocked, ignition off

- ON = Ignition on, with diesel engine: preheating
- START = Start (transmission in neutral)

► Starting - see page 15, electronic immobiliser - see page 18, parking the vehicle - see page 16.

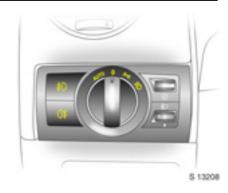


Steering wheel adjustment: Movelever down, adjust height and distance, move lever up and engage

Adjust steering wheel only with vehicle stationary and steering column lock released.

Push the lever firmly upwards to ensure that the steering wheel is locked in position.

► Airbag systems - see page 48.



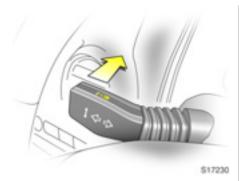
Exterior lighting:

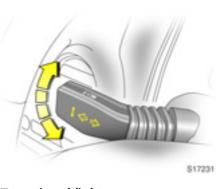
Turn light switch:

rumig	11(5)	witch:	
0	=	Off	
∌€	=	Parking lights	
≣D	=	Dipped beam or	
		main beam	
AUTO	=	Automatic dipped	
		beam activation *	
Press bu	uttor	ו:	
书D	=	Front fog lights	
Dŧ	=	Fog tail light	
► Head light warning device - see page 88, further information - see page 90, headlight range adjustment ☆- see page 93,			
headlights when driving abroad -			

see page 96,

daytime running lights * - see page 90.





Headlight flash, main and dipped beam:

Headlight flash

Main beam

- Pull stalk towards steering wheel
 Push stalk
- forwards Dipped beam = Pull stalk back towards

steering wheel ► Main beam, headlight flash -

see page 91.

Turn signal lights: Stalk in rest position Upwards = Right turn Downwards = Left turn ► Turn signal lights - see page 91.



Hazard warning lights:

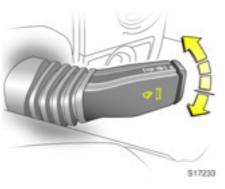
- On = Press 🛦
- Off = Press 🛦 again
- ► Hazard warning lights see page 93.



Activate horn be: Press either side of the steering wheel

The horn will sound regardless of starter switch position.

► Airbag systems - see page 48, remote control on steering wheel see page 97.



Windscreen wiper: Movestalk upwards

O = Off

- -- = Timed interval wipe
- = Slow
- = = Fast

Press stalk down from position O: Single swipe.

► Windscreen wiper - see page 88, adjustable wiper interval - see page 88, further information - see pages 194, 198, 200.



Automatic wiping with rain sensor *****: Move stalk to automatic wiping with rain sensor position – –

The rain sensor detects the amount of water on the windscreen and automatically regulates the windscreen wiper.

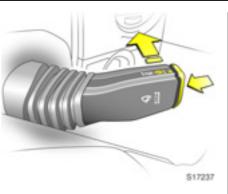
▶ Windscreen wiper - see page 88, further information - see pages 195, 198, 200.



Operating windscreen and headlight wash systems **%**: Pull stalk towards steering wheel

► Windscreen and headlight wash systems - see page 89,

further information - see pages 195, 198, 200.



Tailgate wiper and wash systems:

- Wiper on = Push stalk forward
- Wiper off = Pull stalk back towards steering wheel
- Wash = Press and hold button
- ► Tailgate wiper and wash systems see page 89, further information - see pages 194, 195,

198, 200.



Heated rear window, heated exterior mirrors *****:

Press	<u> </u>		=	On
		•		011

Press 💷 again 🛛 = Off

► Air conditioning - see page 105, heated rear window, heated exterior mirrors - see page 101.



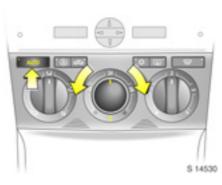
up or iced up

Drying misted up or iced up windows:

Set air distribution to position **"***i*, set the temperature rotary knob to red and fan to position 4, switch on heated rear window []

Close centre air vents, open side air vents and direct them towards the door windows.

► Heating, ventilation and air conditioning system - see pages 102, 105.



To set automatic mode of Electronic Climate Control *****: Press AUTO button, set temperature using rotary knob Open all air vents.

► Electronic Climate Control (ECC) - see p age 107.



Manual transmission:

R

- 1 to 5 = 1 st to 5 th gear
 - = Reverse gear

Only engage reverse gear when the vehicle is stationary.



Automatic transmission *:

- P = Park position
- R = Reverse
- N = Neutral (idle)
- D = Automatic gear selection

Starting is only possible in P or N. To move from P or N, switch on ignition, depress footbrake and press selector lever button.

Engage P or R: press selector lever button.

- P: Only with vehicle stationary, first apply hand brake
- **R**: Only with vehicle stationary.
- ► Automatic transmission see page 111.



Manual mode:

- = Shift to higher gear
- = Shift to lower gear
- ► Further information see page 113.

Before starting-off, check:

- Tyre pressures and condition.
- Engine oil level and fluid levels in engine compartment (see page 188).
- All windows, mirrors, exterior lighting and number plates are free from dirt, snow and ice and are operational.
- Objects are securely located and will not be thrown forward in the event of sudden braking.
- Seats, seat belts and mirrors are correctly a djusted.
- All gauges and control indicators.
- Brake operation.



Starting the engine: Manual transmission in neutral, Depress clutch and footbrake, Automatic transmission in P or N, Do not accelerate

Petrol engines: Turn key to START and release it

Diesel engines: Turn key to ON, when preheating control indicator $\overline{00}$ extinguishes¹⁾, turn key to START and release it

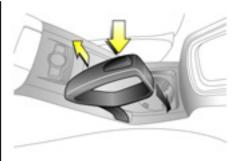
Key returns automatically to ON position when released.

 Preheating system switches on only if outside temperature is low. Start attempts should not last longer than 15 seconds. If engine does not start, wait 10 seconds before repeating starting procedure.

The increased engine speed automatically returns to normal idling speed as the engine temperature rises.

Drive at a moderate speed, especially in cold weather, until normal engine operating temperatures have been reached.

► Electronic immobiliser - see page 18, diesel fuel system - see page 167, further information - see pages 123, 125, 127.



S 14396

Releasing the handbrake: Raise lever slightly, press release button, lower lever fully

To reduce operating forces, depress footbrake at the same time.

Do not drive with handbrake on, to avoid damage to brakes on the rear wheels. Do not apply handbrake while vehicle is in motion or as a substitute for the footbrake.

Drive carefully, economically and with the environment in mind . While driving, do not do anything that could distract you.

► Handbrake - see page 143.



Parking the vehicle: Apply handbrake firmly, close windows. switch off engine, remove key, engage steering column lock, lock vehicle

► Further information - see pages 18, 124. radio frequency remote control see page 19, central locking system - see page 21, Vauxhall alarm system - see page 23.

Advice when parking:

- Always apply handbrake firmly and as firmly as possible on slopes.
- Push key into starter switch before removing (vehicles with automatic transmission *: depress footbrake and shift into P before removing key). Turn steering wheel until lock is felt to engage (anti-theft protection).
- If the vehicle is parked on a level surface or an uphill slope, select 1st gear before switching ignition off (vehicles with automatic transmission *: move selector lever to **P**). Also turn front wheels away from kerb if parked on an uphill slope.

If the vehicle is parked on a downhill slope, select reverse gear before switching ignition off (vehicles with automatic transmission *: move selector lever to P). Also turn front wheels towards kerb.

- Switch off exterior lights, otherwise the headlight warning device will sound when the driver's door is opened.
- Cooling fans may run on after the engine has been switched off.
- Do not park on easily ignitable surfaces as hot exhaust system temperatures could cause the surface to ignite.

That was a brief overview of the most important information for your first drive in your Antara.

Your vehicle has still more instruments and controls, possibly also optional equipment.

The remaining chapters of the Owner's Manual contain important information on operation, safety and maintenance as well as a complete index.

Locks, doors, windows

Replacement keys	17
Lock cylinders	17
Car Pass	17
Key with foldaway key section *	17
Electronic immobiliser	18
Radio frequency remote control	19
Central locking system	21
Tailgate	22
Mechanical anti-theft locking	
sy stem 🛠	23
Vauxhall alarm system *	23
Child safety locks	26
Exterior mirrors	26
Interior mirror	27
Electric windows	28
Sunvisors	30
Slide / tilt sunroof *	30

Replacement keys

The key is a constituent of the electronic immobiliser. In case of loss, replacement keys can be ordered from your Vauxhall Authorised Repairer by quoting the key number and Vehicle Identification Number (VIN).

Once a new transmitter is coded, the lost transmitter will not unlock your vehicle.

Ordering keys from a Vaux hall Authorised Repairer guarantees problem-free operation of the electronic immobiliser.

Keep spare key in a safe place.

Locks - see page 201.

Lock cylinders

Designed to free-wheel if they are forcefully rotated without the correct key or if the correct key is not fully inserted.

To reset, turn cylinder with the correct key until its slot is vertical, remove key and then re-insert it. If the cylinder still free-wheels, turn the key through 180° and repeat operation.

Car Pass

The Car Pass contains all of the vehicle's data and should therefore not be kept in the vehicle.

Have your Car Pass to hand when consulting a Vauxhall Authorised Repairer.



\$ 13585

Key with foldaway key section *****

Press button to extend. Press button to retract; key section audibly engages.



S 13586

Electronic immobiliser

The system checks whether the vehicle may be started using the key that has been inserted. If the key is recognised as "authorised", the vehicle can be started. The check is carried out via a transponder housed in the key.

The electronic immobiliser is automatically activated when the key is turned to LOCK position and removed from the starter switch.



Control indicator 🛍 for immobiliser

The control indicator illuminates when the ignition is switched on, then extinguishes.

If the control indicator stays illuminated after the ignition is switched on, there is a fault in the immobiliser system.

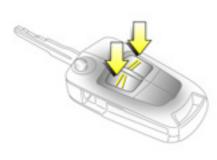
■ Turn key to LOCK position and remove,

- wait a pproximately two seconds,
- then repeat starting procedure.

If the control indicator fails to extinguish, try to start the engine using the spare key and seek the assistance of a workshop.

Note

The immobiliser does not lock the doors. Therefore, after leaving the vehicle, always lock it and switch on the Vauxhall alarm system ***** - see pages 21, 23.



Radio frequency remote control

The remote control is used to operate:

- Central locking system,
- Mechanical anti-theft locking system *,
- Vauxhall ala m system *.

The remote control has a range of approx. 6 metres. The range may be reduced due to environmental conditions or shadowing and reflection of the radio waves.

To operate the remote control, direct the remote control unit at the vehicle.

Treat the remote control unit with care: it should be protected against moisture, kept out of direct sunlight and should not be operated unnecessarily.

Do not place heavy objects on the remote control unit, and a void dropping it.

The hazard warning lights come on to indicate that the remote control is operational.

Central locking system see page 21.

Mechanical anti-theft locking system * see page 23.

Vauxhall alarm system ***** see page 23.

Fault

If the central locking system cannot be operated with the remote control, this may be due to the following reasons:

- The remote control is out of range.
- The battery voltage of the remote control is too low. Change the battery in the remote control unit.
- The remote control has been repeatedly operated outside the vehicle's reception range (e.g. at too great a distance from the vehicle). The remote control must be reprogrammed. We recommend you consult your Vauxhall Authorised Repairer.
- The system has been overloaded as a result of repeated operation at short intervals. The power supply is cut-off for a brief period.
- Interference from higher power radio waves from other sources.

Lock or unlock the doors manually using the key or central locking switch see page 21.

Have cause of fault remedied by a workshop.



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Changing battery in remote control unit Replace the battery in a ccord ance with the information in chapter "Service, Maintenance" on page 202 or when the range of the remote control starts to become reduced.

Key with foldaway key section: open cover by hand.

Remove used battery, taking care to avoid touching the circuit board to other components.

Ensure the new battery is installed correctly with positive (+) side facing up.

Close cover, ensuring it audibly engages in the key part.

Key with fixed key section:

insert a small screwdriver in the notch on the cover and prise it open.

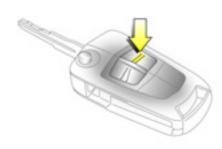
Remove used battery, taking care to avoid touching the circuit board to other components.

Ensure the new battery is installed correctly with positive (+) side facing down towards the base.

Close cover, ensuring it audibly engages in the key part.

∆Warning

Used lithium batteries can harm the environment. Make sure that you dispose of old batteries in accordance with environmental protection regulations. Do not dispose with household refuse.



S 13588

Central locking system

For front doors, rear doors, tailgate and tank flap.

To lock:

Press button = on remote control - or -

With the doors closed, press central locking switch 📾 in driver's door.

The central locking system can be activated with the windows open.

Always ensure that the doors, bonnet, tailgate, sunroof ***** and windows are properly closed and that there are no passengers left in the vehicle before locking with the remote control.

To unlock:

Press button \geq on remote control - or -

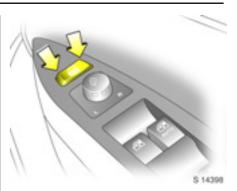
Press central locking switch $rac{l}{l}$ in driver's door.

If no door is opened within a pprox. 30 seconds after the vehicle has been unlocked via the remote control, the vehicle is relocked automatically and Vauxhall alarm ***** is reactivated.

When button \geq is pressed, the instrument panel illuminates for approx. 30 seconds or until starter switch is turned to the ACC position.

∆Warning

Forsafety reasons, the vehicle cannot be locked or unlocked via the remote control (and the anti-theft system ***** will not be activated) if the key is in the starter switch.



Centra l locking switch 📾

Use the central locking switch to lock or unlock the doors, tailgate and tank flap from inside the vehicle.

Press the right part of the switch to lock or the left part of the switch to unlock.



Tailgate

To unlock and open Press button \geq on remote control

```
- or -
```

Press central locking switch 📾 in driver's door.

The tailgate is unlocked together with the doors and can be opened by operating the button above the number plate and lifting the tailgate.

With the engine running, the tailgate will only unlock when the handbrake is applied or automatic transmission * is in **P**.

If the tailgate is open when the ignition is switched on, tailgate open control indicator \leftarrow illuminates in the instrument cluster.

∆Warning

Ensure there are no obstructions and that there is adequate clearance when opening the tailgate.

Do not drive with tailgate open or ajar, e.g. when transporting bulky objects, since toxic exhaust gases could penetrate the vehicle interior.

If driving with tailgate open is necessary, set fan to highest speed, op en all air vents. close windows and ensure air recirculation mode is off, to allow entry of outside air.



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To close and lock

There is a handle on the inside of the tailgate for closing the luggage compartment.

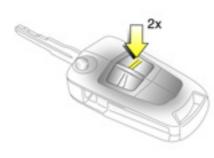
Close tailgate by pushing it down so it latches securely. Ensure tailgate is fully closed before driving.

To lock tailgate, together with the doors:

Press button = on remote control - or -

Press central locking switch 📾 in driver's door.

If the ignition is switched on, the tailgate open control indicator <--- extinguishes in the instrument cluster.



S 13589

Mechanical anti-theft locking system *

∆Warning

Do not use the system if there are people in the vehicle. The doors cannot be unlocked from inside.

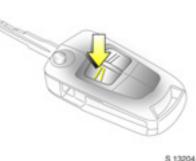
<u>To lock</u>:

All doors and the tailgate must be closed; press button = on remote control again within 3 seconds after locking

- or -

Turn key in driver's door lock towards rear of vehicle again within 3 seconds after locking, then turn it back to the vertical position and remove.

Lock buttons on all doors are positioned such that doors cannot be opened.



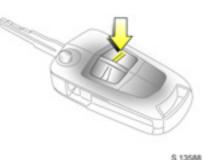
To unlock:

Press button \geq on remote control - or -

Turn key in driver's door lock towards front of vehicle, then turn it back to the vertical position and remove.

∆Warning

Unlocking is not possible in any other way, so keep spare key in a safe place.



3204

Vauxhall alarm system 🛠

The system monitors:

Front and rear doors.

■ Tailgate, bonnet.

- Starter switch.
- Passenger compartment *****.
- Vehicle tilt, e.g. if it is raised *****.
- Siren power supply *****.

∆Warning

Do not use the system if there are passengers in the vehicle. The doors cannot be unlocked from the inside when the alarm is activated and when the mechanical anti-theft locking system is activated.

The remote control unit is used to operate the anti-theft a larm system.

To activate

Always ensure that the doors, bonnet, tailgate, sunroof ***** and windows are properly closed and that there are no passengers left in the vehicle before activating anti-theft alarm system.

Press button = on remote control - or -

Lock driver's door by turning key in door lock towards rear of vehicle then turn it back to the vertical position and remove;

■ Hazard warning lights flash once,

- All doors are locked,
- Anti-theft system is activated after approx. 30 seconds.



Confirm that the control indicator starts flashing slowly, after illuminating for approx. 30 seconds, to show that the antitheft system has been activated.

If button — is pressed again, the anti-theft alarm system will activate automatically, bypassing the 30 second delay. This will also activate the mechanical anti-theft locking system.

If the hazard warning lights do not flash on activation or the control indicator flashes quickly, this may indicate that a door, the tailg ate or the bonnet is not fully closed.



Activation without monitoring of passenger compartment and vehicle tilt * Switch on when, for example, animals are to be left in the vehicle.

- 1. Close tailgate and bonnet.
- 3. Close doors.
- Switch on anti-theft alarm system. Control indicator for anti-theft alarm system illuminates. After a 30 second delay, the system is activated without monitoring of the passenger compartment or vehicle tilt.

Control indicator ॐ remains illuminated in the instrument cluster until the system is switched off by pressing button ॐ again.



Control indicator for anti-theft alarm system *

The control indicator illuminates to show that the system is operational when the doors are locked with the remote control or the key. When the doors are unlocked with the key or remote control, the control indicator extinguishes.

To deactivate

Press button \geq on remote control - or -

Unlock driver's door by turning key in door lock towards front of vehicle, then turn it back to the vertical position and remove:

- Hazard warning lights flash twice,
- All doors are unlocked.
- Anti-theft system is deactivated.

If the driver's door is not opened, or the engine is not started within 30 seconds of deactivation, all doors are automatically relocked and the system is reactivated.

If the alarm has been triagered, the hazard warning lights will not flash upon deactivation.

Note

The anti-theft alarm system cannot be deactivated in any other way, so keep a spare key in a safe place.

Changes to the vehicle interior, such as the use of seat covers, could impair the function of passenger compartment monitoring *.

Alarm

While the alarm system is switched on, the alarm can be triggered, indicated by:

■ an acoustic signal (horn) and

■ a visual signal (exterior lights).

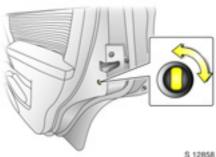
The number and duration of the alarms are legally established.

The alarm is stopped by pressing \geq or = on the remote control or by unlocking the driver's door with the correct key. The anti-theft alarm system is deactivated at the same time.

Alarm siren with integrated battery * The alarm siren monitors the on-board voltage network and triggers an alarm if this network is manipulated (e.g. if the vehicle's battery is disconnected by unauthorised persons). The alarmsiren has its own power supply and is therefore not dependent on the vehicle's battery.

If the vehicle's battery is to be disconnected (e.g. for maintenance work), the alarm siren must be deactivated as follows: switch the janition on then off. disconnect the vehicle's battery within 15 seconds.

To switch off alarm siren: Switch ignition on then off.



Child safety locks

Warning

Use the child safety locks whenever children are occupying the rear seats. Disregard may lead to injuries or endanger life. Vehicle passengers must be informed accordingly.

To engage lock, open door, insert key into child safety lock and turn lock from the vertical to the horizontal position. Door cannot then be opened from inside.

To unlock door while child safety lock is activated, pull up lock button and open door from outside. Do not pull inside door handle while child safety lock is activated.

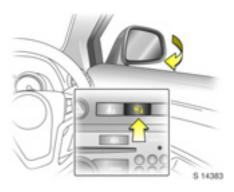


Exterior mirrors Electrically adjustable exterior mirrors

Adjust with the four way switch in driver's door: move selector switch to L or R; four way switch adjusts corresponding mirror

The mirror glass swivels in the same direction as the activation of the four way switch.

Heated exterior mirrors * - see page 101.



Fold in exterior mirrors

Manually: the exterior mirrors can be folded in by pressing lightly on the outside of the mirror housing.

Electrically *****: with starter switch in positions ACC or ON, press button 🖼 and both mirrors will fold in.

Press button 🖼 a g ain; both mirrors will fold to the driving position.

If a folded-in electric mirror has been folded out manually, pressing button 🖼 only folds the other mirror out. Pressing button 🖻 again folds both mirrors back in.

Fold mirrors back into driving position before driving the vehicle.



For the safety of pedestrians, the exterior mirrors will swing out of their normal mounting position in the event of an accident-like impact.

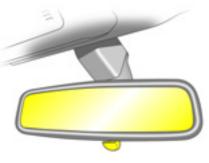
As exterior mirrors are convex, objects are closer than they appear. Use interior mirror to judge size and distance of objects.

Do not scrape ice from exterior mirrors or force them if frozen. Use a de-icer.



Automatic anti-dazzle exterior mirrors * Dazzle is a utomatically reduced.

Exterior mirrors dim to reduce glare automatically in conjunction with the automatic anti-dazzle interior mirror ***** see page 28, Fig. S14381.



\$14586

Interior mirror

To adjust interior mirror, swivel mirror housing.

Swivel lever on underside of mirror housing to reduce dazzle at night.

Take care when driving with interior mirror adjusted for night vision. Rearview may be slightly distorted in this position.



Automatic anti-dazzle interior mirror ***** Dazzle is automatically reduced.

With the ignition off, the mirror does not dim.

Press button on mirror housing to turn function on. Button will illuminate. Press button again to turn off.

There are two light sensors in the mirror housing. To avoid interference and loss of function, do not cover the sensors or hang anything on the mirror.

Electric windows

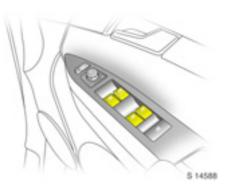
∆Warning

Care must be taken when operating the electrically operated door windows. There is a risk of injury, particularly for children, and a danger that articles could become trapped. Vehicle passengers must be informed accordingly.

If there are children on the rear seats, press the switch in the driver's door to lock rear window operation. Rear windows can then only be operated via the driver's door switches.

Keepa close watch on the windows when closing them. Ensure that nothing becomes trapped in them as they move.

Before leaving the vehicle, remove the ignition key in order to prevent unauthorized operation.

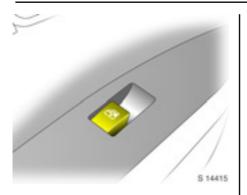


Operational with key in starter switch positions ACC or ON. If key is in LOCK position or removed, windows can be operated for 10 minutes or until driver's door is opened.

Operated via four switches located in the driver's door.

For incremental operation, briefly pull or press the switch.

For a utomatic * opening or closing, p ull or press the switch longer. Pull or press the switch again to stop the movement.



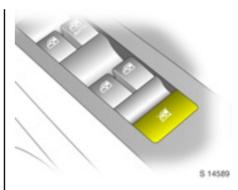
Additional switches are located in the front passenger's door and the rear doors.

The rear windows do not open fully.

Safety function *

If the window glass encounters resistance above the middle of the window during automatic closing, it will stop immediately and will be opened again.

In the event of difficulty due to frost or the like, press the relevant window switch several times until the window is closed.



Child safety system for rear windows

Press 🗷 switch in driver's door to lock rear window operation.

With the lock on, rear passenger windows can only be operated via the switches in the driver's door.

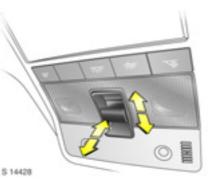


Sunvisors

Use the sunvisor to protect from glare by pulling it up, down or swivelling it to the side.

Sunvisors have vanity mirrors and a ticket holder $\boldsymbol{\$}$ on the rear.

When the vanity mirror covers are opened, the sunvisor light ***** will illuminate.



Slide / tilt sunro of *

Operated via switch in roof lining when the starter switch is in positions ACC or ON.

With key in LOCK position in the starter switch or removed, the slide / tilt sunroof can be adjusted for up to 10 minutes or until a door is opened.

For incremental operation, briefly press the button. For automatic opening or closing, press and hold the switch.

To open

Press switch rearwards; it will open automatically unless the switch is pressed again in a nother direction, or released.

To close

Press and hold switch forwards. Release switch when sunroof reaches desired position.

To til t

Press and hold switch upwards. Release switch when sunroof reaches desired position.

To return sunroof to its original position, press and hold switch downwards. Release switch when sunroof reaches desired position.

Note

- If the top of the sunroof is wet, tilt it to allow water to run off before opening the sunroof.
- When carrying a roof load, check the clearance of the sunroof, to avoid damage.

▲Warning

Care must be taken when operating the sunroof. Do not place any objects or body parts in the sunroof opening.

Keep sunroof clear of debris. Do not place heavy objects on or around sun roof.

When leaving the vehicle unattended, ensure the sunroof is fully closed.

Seats, interior

Front seats	32
Rear seats	37
Seat belts	38
Child restraint systems 🛠	43
Airbag systems	48
Storage	55
Drink holders	63
Ashtrays 🛠	63
Warning triangle 🛦 🛠,	
First aid kit 🕲 🛠	64
Power outlets	64
Assist grips	65



Front seats

∆Warning

Never adjust seats whilst driving as they could move uncontrollably.

Adjust seat longitudinally

To adjust, pull the handle on the front seat, slide the seat and release the handle.



\$ 13441

Adjusting front seat backrests

To adjust, lift the release lever, move seat backrest to suit seating position and lockin position when the lever is released.

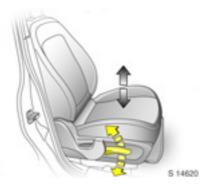
Do not lean on the seat backrest whilst adjusting it.



S 14379

Adjusting the lumbar support * To adjust, turn the handwheel whilst relieving the bad on the backrest.

Adjust lumbar support to suit personal requirements.



Adjusting seat height * To adjust, operate lever on side of seat.

Lever pumping action upward: raises seat downward: lowers seat

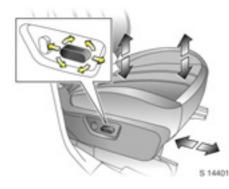
Electrically a djustable front seat *

∆Warning

Care must be taken when operating electrically adjustable seats. There is a risk of injury, particularly for children and a danger that articles could become trapped.

Keep a close watch on the seats when adjusting them.

Vehicle passengers must be informed accordingly.



Adjustment

The seat position can be adjusted by means of switches on the outboard side of the seat.

Adjusting the longitudinal position: Move front switch forwards / backwards.

Height adjustment: To adjust height of front part of seat cushion, push front part of switch up / down.

To adjust height of rear part of seat cushion, push rear part of switch up / dow n.

To adjust height of entire seat cushion, push both front and rear parts of switch up / down.



Seat backrest adjustment:

Move upper part of rear switch forwards / backwards.

Operate switch until desired seat position is reached. Seat position - see next column.

After adjusting the seat, a djust height of seat belt - see page 43.

The seat backrest must not be tilted back too far (recommended maximum tilting angle ap prox. 25°).

Seat position

Adjust driver's seat such that, with the driver sitting upright, the steering wheel is held in the area of its upper spokes with the driver's arms slightly bent.

Slide front passenger's seat as far back as it will g o.

The seat backrests must not be tilted back too far (recommended maximum tilting angle approx. 25°).



Important: Do not sit nearer than 10 inches (25 cm) from the steering wheel, to permit safe airbag deployment.

Disregard can lead to injuries which could be fatal. Vehicle passengers must be informed accordingly.



Head restraints

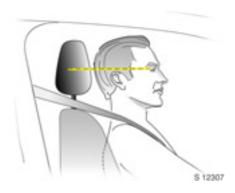
To adjust head restraint height, press release button, adjust height to suit then release the button.

Pull head restraint up to raise. Push head restraint down while pressing the release button to lower the head restraint.

Active head restraints 🛠

In the event of a rear-end impact, the active head restraints automatically tilt forwards. The head is more effectively supported by the head restraint and the danger of whiplash in the neck area is reduced.

Do not attach objects or components that are not approved for your vehicle to the head restraints. These affect the protective effect of the head restraints and can be propelled through the vehicle in an uncontrolled manner if the driver brakes hard or an accident occurs.



Head restraint position

For maximum protection, the middle of the head restraint should be at eye level. If this is not possible for extremely tall persons, set to highest position, and set to lowest position for extremely small persons.

∆Warning

Disregard can lead to injuries which could be fatal. Vehicle passengers must be informed accordingly before moving away.

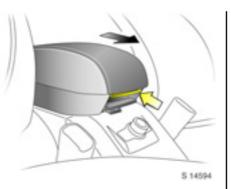
36 Seats, interior

Removing the head restraints

Insert a suitable tool into the small hole in the side of the guide sleeve without the release button and depress the lock. Press the release button on the other guide sleeve and pull up the head restraint.

Stow head restraints securely in luggage compartment.

Do not drive with head restraints removed if the seat is occupied.



Front seat a rmrest 🛠

The armrest can be slid forwards. Pull up and hold upper lever and slide the armrest forwards.

To return armrest to its rearmost position, slide it back until it latches into position.

Console box in front armrest - see page 61.



Folding down the passenger's seat *

Push front passenger's seat head restraint all the way down - see page 35.

Slide front passenger's seat as far back as it will g o.

Fold seat forwards by lifting backrest release lever and folding backrest down onto seat cushion. To raise the seat, lift back rest release lever and push backrest to upright position.

Push and pull on seat backrest to ensure it is locked, thus avoiding excessive forward movement in the event of a collision.

Warning

If longer objects, e.g. skis, are to be carried on the back of the front passenger's seat backrest, ensure they are not in the area in which the front passenger's girb ag inflates or in the grea between the seat backrest and the vehicle body. In the event of a collision, such objects may be thrown through the vehicle

The load must not hinder handbrake operation or gearshifting.

Disregard of these notes can lead to injuries which may be fatal.



Rear seats

To adjust backrests, lift release lever located on top of backrest and move backrest forwards or backwards to desired position.

Do not lean on seat backrest whilst adjusting it or make adjustments while the vehicle is moving.

When folding the rear seat backrests. ensure the seat belts are unbuckled.



\$ 13669

Folding rear seat backrests

The luggage compartment can be enlarged by folding the rear seat back rests onto the seat cushions.

To fold rear seat backrests separately, unbuckle all three rear seat belts and ensure front seats are not in reclined position.

Push head restraints all the way down, lift backrest release lever and fold backrest forwards and down onto seat cushion.

Do not allow passengers to sit on folded backrest, or place any unrestrained loads on it.

∆Warning

When folding the backrest, use caution - beware of moving parts.

Safety net 🛠 - see page 56.

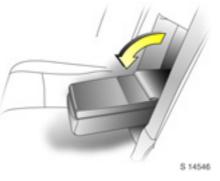
Restoring rear seat backrests

Lift and push backrest up and backwards to restore it to its original position. Ensure backrest latches into place by pushing top of backrest and pulling it forwards again.

∆Warning

Ensure that the backrest returns to its correct position - see page 34.

Never adjust the rear seat backrests whilst the vehicle is moving. They could move in an uncontrolled manner when the lever has been pulled.



Rea r seat armr est 🛠

The armrest can be folded down.

If the rear centre seat is being used or the rear seat backrests are being folded down, fold armrest upwards.

Console box in rear armrest - see page 61.

Seat belts

Three-stage restraint system The system comprises:

- Three-point seat belts.
- Belt tensioners, with load limiters, on the front seats.
- Airbag systems for driver, front passenger and rear outboard seat occupants.

The three stages are activated in sequence depending on the seriousness of the accident:

- The automatic seat belt locking devices prevent the belt strap from being pulled out and thus ensure that the vehicle occupants are retained in their seats.
- The front seat belt buckles are pulled downwards. As a result, the seat belts are instantaneously tightened and the occupants are made aware of the deceleration of the vehicle at a very early stage. This reduces stress placed on the body.

The airbag system is additionally triggered in the event of a serious accident involving a frontal impact, and forms a safety cushion for the driver and front passenger. In the event of a sideimpact, the side airbag system * protects the occupants in the front of the vehicle, and the curtain airbag system protects both front and rear outboard seat occupants.

∆Warning

The airbag system serves to supplement the three-point seat belts and belt tensioners. The seat belts must therefore always be worn.

Disregard of these notes can lead to injuries which may be fatal. Vehicle passengers must be informed accordingly.

Be sure to read the descriptions of all the restraint systems on the following pages.

Three-point seat belts

The front and rear seats are equipped with three-point seat belts with automatic retractors and locking devices, allowing freedom of body movement when the vehicle moves at a constant speed, although the spring-tensioned belts are always a snug fit.

The belt has a "vehicle sensitive retractor" which is designed to lock during heavy acceleration or deceleration in any direction.

∆Warning

Always wear your seat belt, and that means also in urban traffic and when you are a rear seat passenger. It can save your life!

Pregnant women too must always wear a seat belt, keeping the lap belt low and snug on the hips and pelvis (not the waist or abdomen, where a ctuating belt tensioners could cause serious injury in the event of a collision). In the event of an accident, persons not wearing seat belts endanger their fellow occupants and themselves.

Control indicator **4** for driver's seat belt reminder - see page 68.

Control indicator 4^2 for front passenger's seat belt reminder * - see page 42.

Seat belts are designed to be used by only one person at a time. They are only suita ble for children a ged up to 12 or smaller than 150 cm if used in conjunction with a child restraint *****.

For children up to 12 years of a ge, we recommend the Vauxhall child restraint system $\overset{*}{\ast}$ - see page 43.

40 Seats, interior

Belt force limiters

Load limiters on the front seats reduce the impact on the seat occupant's body from a tensioning belt, in the event of a severe frontal collision. The belt force is controlled, to reduce the risk of belt-inflicted injury.

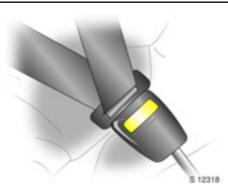
Inspection of belts

Periodically inspect all parts of the belt system for damage and to make sure they are functioning properly.

Have da maged parts replaced. After an accident, belts and triggered belt tensioners must be replaced by new ones.

Do not perform any alterations on the belts, their anchorages, the automatic retractors or the belt buckles.

Make sure that belts are not damaged or trapped by sharp-edged objects.



Belt tensioners

The seat belt systems on the front seats incorporate belt tensioners housed in the belt buck les and seat belt retractors.

In the event of frontal collisions or sideimpacts of a certain severity, belt buckles and seat belt retractors tighten the seat belts; the shoulder and lap belts are instantaneously tightened to fit the oc cup ant's body more snugly.

The belt buckles and seat belt retractors will remain lock ed after actuation (where some noise will occur and smoke may be released).

Belt tensioners are not designed to activate in the event of rear-impacts, minor sideimpacts, rollovers or minor frontal collisions.

Actuation of belt tensioners

The belt tensioners actuate only once and must be replaced by a workshop after activation.

∆Warning

The belt tensioners are operational only when control indicator \Re is unlit.

If the control indicator does not flash briefly when the ignition is on, stays lit, illuminates or flashes whilst driving, the belt tensioners or the airbag systems may not function correctly.

Have both systems inspected by a workshop.

The seat belts remain fully operational even when the belt tensioners have been actuated.



Belt tensioners control indicator

The seat belt tensioners are monitored electronically together with the airbags, and their operational readiness shown by the red control indicator 🕏 in the instrument cluster.

When the ignition is switched on, the control indicator flashes several times then extinguishes. If it does not flash, stays lit, illuminates or flashes whilst driving, there is a fault with the belt tensioners or in the airbag systems. The systems might not therefore be triggered in the event of an accident (see also page 52).

∆Warning

Have the cause of the fault remedied by a workshop.

The system's integrated self-diagnostics allows faults to be auickly remedied.

Important

- Accessories not released for your vehicle type and other objects must not be fixed or placed within the action zone of the belt tensioners, as they may result in injury if the belt tensioners are triggered.
- Do not make any modifications to the components of the belt tensioners, as this may result in unintended actuation of the belt tensioners, rendering the vehicle unroadworthy and causing serious personal injury.

AWarning

Improper handling (e.g. removal or installation) can activate the belt tensioners – risk of injury.

- The belt tensioner and airbag system control electronics can be found in the centre console area. In order to avoid malfunctions, do not store magnetic objects in this area.
- When using the rear seats, ensure that the front seat belt components are not damaged by shoes or other objects. Avoid dirt getting in the retractors.
- The belt tensioners only actuate once. indicated by continuous illumination of control indicator ***** in the instrument cluster. Deployed belt tensioners must be replaced by a workshop.
- When disposing of the vehicle, observe the applicable safety regulations. Take the vehicle to a recycling company for disposal.



\$ 12279

Using the belts Fitting the belt

Pull the belt out evenly from the retractor and guide it over the shoulder, making certain that it is not twisted.

Insert the latch plate into the buckle. The seat backrest must not be tilted back too far (the recommended maximum tilting angle is approx. 25°).

The lap belt must not be twisted and must fit snugly across the body. Tension the belt frequently whilst driving by tugging the diagonal part of the belt.



AWarning

On pregnant women in particular, the lap belt must be positioned as low as possible across the pelvis in order to prevent pressure on the abdomen.

Keep knees pointing straight forward so that driver's side knee bolsters can help prevent submarining under the seat belt in the event of a collision

Bulky clothing prevents the belt from fitting properly. The belt must not rest against hard or fragile objects in the pockets of vour clothing (e.g. ballpoint pens, kevs, spectacles) because these could cause injury in the event of a collision. Do not place any objects (e.g. handbags) between the belt and your body.



Front passenger's seat belt reminder 🌮 🛠 Illuminates for approx. 4 seconds when ignition is switched on.

When the engine is running, if the front passenger's seat is occupied and the belt is not engaged, the control indicator will flash for approx. 90 seconds and then illuminate until the belt is fastened correctly (control indicator will extinguish immediately).

If vehicle speed exceeds approx. 14 mph (22 km/h), the control indicator will flash for approx. 90 seconds along with a warning chime, and then illuminate until front passenger's seat belt is fastened.

Control indicator **å** for driver's seat belt reminder - see page 68.

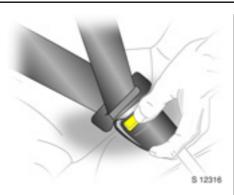


\$ 14408

Seat belt height adjustment of front seat belt upper anchorage points

- Do not a djust height w hilst driving.
- Squeeze release buttons together and slide adjuster up or down to desired position.
- Ensure sliding height adjuster latches into position.

Height adjuster can also be moved up without squeezing release buttons.



Removing the belt

To remove the belt, press the red release button on the belt buck le; the belt will retract automatically.

Guide the belt as it retracts, to prevent personal injury and damage to interior surfaces.

Always ensure you position the release button so that you can unbuckle the seat belt quickly if necessary.

Child restraint systems *

Vauxhall child restraint systems are designed specifically for your vehicle and thus provide optimum safety for your child in the event of an impact. The use of a Vauxhall child restraint system is therefore recommended.

If a different child safety seat is used, follow the manufacturer's instructions for fitting and use.



Disregard of these instructions may lead to injuries or endanger life.

Selecting the right system

Your child should be transported facing rearwards in the vehicle as long as possible. The child's neck area is still very weak and in an accident they suffer less stress in the semi-prone rearward position than when sitting upright.

Note

- Children under 12 years or under 150 cm tall should only travel in an appropriate child safety seat.
- Never carrya child whikt travelling in the vehicle. The child will become too heavy to hold in the event of a collision.
- When transporting children, use a child restraint system that is suitable for the child's weight, age and height.
- Ensure that the child restraint system to be installed is compatible with the vehicle type.
- You should always observe the instructions on installation and use supplied with the child restraint system.

- Do not stick anything on the child restraint systems and do not cover them with any other materials.
- Only allow children to enter and exit the vehicle at the side facing away from the traffic.
- A child restraint system which has been subjected to stress in an a ccident must be replaced.
- When the child restraint system is not in use, secure the seat with a seat belt or remove it from the vehicle.
- The covers of the Vauxhall child restraint system can be wiped clean.

The following Vauxhall child restraint systems have been approved for installation in your Antara:

Gr clo	oup, weight and age uss ¹⁾	Vauxhall sy stem
0	From birth - 10 kg, 0 - 10 months	Baby Safe
0+	From birth - 13 kg, 0 - 2 years	
I	From 9 - 18 kg, 8 months - 4 years	Duo ISOFIX
П	From 15 - 25 kg, 3 years - 7 years	Kid
111	From 22 - 36 kg, 6 years - 12 years	

We recommend the use of each system until the child reaches the upper weight limit.

If child restraint systems of other manufacture are to be installed, ensure that they conform to the appropriate safety regulations. Permissible options for fitting a child safety seat

Weight and age class	On front passenger's seat	On outboard rear seats	On centre rear seat
0:			
up to 10 kg			
or approx.	Х	U, +	X
10 months			
0+:			
up to 13 kg			
or approx.	Х	U, +	Х
2 years			
1:			
9 to 18 kg			
or approx.	Х	U, +, ++	Х
8 months to 4 years			
11:			
15 to 25 kg			
or approx.	Х	U	Х
3 to 7 years			
III:			
22 to 36 kg			
or approx.	Х	U	Х
6 to 12 years			

- U = Universal suitability in conjunction with the three-point seat belt.
- + = Vehicle seat with ISOFIX mounting available. When mounting with ISOFIX, only ISOFIX child restraint systems that have been ap proved for the vehicle may be used.
- ++ = Vehicle seat with ISOFIX fixings available. For use of ISOFIX and top tether fixings, universal ISOFIX child restraint systems may be used.
- X = No child restraint system permitted in this weight and age class.

∆Warning

Disregard of these instructions may lead to injuries or endanger life.

46 Seats, interior

ISOFIX child restraint systems *

The instructions ac companying the ISOFIX child restraint system are to be expressly follow ed.

IL = Suitable for particular ISOFIX child restraint systems specified in the list.

> These ISOFIX systems are of the 'vehicle-specific', 'restricted' or 'semiuniversal' type.

- IUF = Suitable for ISOFIX forward-facing child restraint systems of universal category approved for use in this weight and age class.
- X = No child restraint system permitted in this weight and age class.

Description
Forward-facing child restraint system for children of maximum size in the weight class 9 to 18 kg.
Forward-facing child restraint system for sm aller children in the weight class 9 to 18 kg.
Forward-facing child restraint system for sm aller children in the weight class 9 to 18 kg.
Rear-facing child restraint system for children of maximum size in the weight class up to 13 kg.

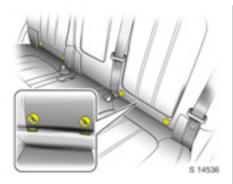
D - ISO/R2: Rear-facing child restraint system for smaller child ren in the weight class up to 13 kg.

.

E - ISO/R1: Rear-facing child restraint system for young children in the weight class up to 13 kg.

Weight and age class	Size class	Fixture	On front passenger's seat	On outboard rear seats	On centre rear seat
0: up to 10 kg or approx. 10 months	E	ISO/R1	х	IL	x
0+: up to 13 kg	E	ISO/R1	х	IL	Х
or approx 2 years	D	ISO/R2	х	IL	х
	С	ISO/R3	Х	IL	х
l: 9 to 18 kg	D	ISO/R2	Х	IL	х
or approx. 8 months to 4 years	С	ISO/R3	Х	IL	х
	В	ISO/F2	Х	IUF	х
_	B1	ISO/F2X	Х	IUF	х
	A	IS O/F3	Х	IUF	х

Permissible options for fitting an ISOFIX child safety seat

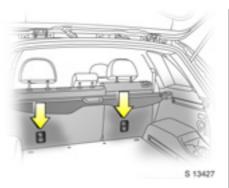


Mounting brackets for ISOFIX child restraint systems

The brackets located between the backrest and seat cushion are used for mounting ISOFIX child restraint systems.

The instructions ac companying the ISOFIX child restraint system are to be expressly follow ed.

Only ISOFIX child restraint systems approved for the vehicle may be used.



Anchors for Top-Tether child restraint systems

The top tether anchors located on the rear of the backrests are designed to hold child restraints which come equipped with top tether anchor attachments only.

Please be sure to follow the instructions provided with the Top-Tether child restraint system.

For use of ISOFIX and Top-Tether fixings, universal ISOFIX child restraint systems may be used.

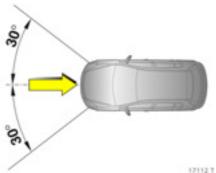


Airbag systems Front airbags

The front airbag system is identified by the word "Airbag" on the steering wheel and above the glove compartment.

The front airbag system comprises:

- an airbag with an inflator in the steering wheel, and a second one behind a trim panel above the glove compartment,
- the control electronics,
- the front impact sensor,
- the airbag system control indicator ≯ in the instrument cluster.



The front airbag system is triggered:

- depending on the severity of the accident.
- depending on the type of impact,
- within the range shown in the illustration,
- independently of the side airbag * and curtain airbag systems.

Examples:

- Impact against a non-vielding obstacle: the front airbags are triggered at low vehicle speeds,
- Impact against a yielding obstacle (such as another vehicle): the front airbaas are only triggered at a higher vehicle speed.

When triggered, the driver's and front passenaer's airbaas inflate in milliseconds and form safety cushions for the driver and front passenger. Forward movement of driver and front passenger is checked and the risk of injuries to the upper body and head thereby substantially reduced.

■ No impairment of view will occur, as airbags inflate and deflate so guickly.

AWarning

The front airbag system provides optimum protection when the seat, seat belt, backrest and head restraint are correctly adjusted.

Adjust the driver's seat according to the occupant's height such that, with the driver sitting upright, the steering wheel is held in the area of its upper spokes with the driver's arms slightly bent.

The driver's seat should be as far back as possible without compromising the driver's ability to reach the pedals, steering wheel or controls.

The front passenger's seat should be as far back as possible, with the backrest upright. Do not place the head, body, hands or feet on the cover of the airbag system.

Do not place objects, children or pets in the area in which the airbags inflate.

The front airbag system will not be triggered in the event of:

- the ignition being switched off,
- minor frontal collisions.
- accidents in which the vehicle overturns.
- collisions involving a side or rear-impact where it would not be of benefit to the occupants.

∆Warning

Seat belts must therefore always be worn. The front airbag system serves to supplement the three-point seat belts.

If you do not wear your seat belt, you risk being seriously injured, or even thrown from the vehicle, in the event of an accident

The belts help to maintain occupants in the correct seating position for the front airbaa system to provide effective protection in the event of an accident.

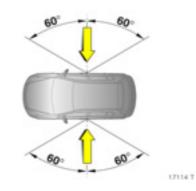


Sid e a irbag s 🛠

The side airbags are identified by the word "Airbag" on the outboard sides of the front seat backrests, and protect front seat occupants in the event of a severe sideimpact.

The side airbag system comprises:

- an airbag with inflator in the outboard sides of the driver's and front passenger's seat backrests,
- the control electronics,
- the side-impact sensors,
- the airb ag systems control indicator **X** in the instrument cluster.



- The side airbag system will be triggered: ■ depending on the severity of the accident,
- depending on the type of impact,
- within the range shown in the illustration,
- independently of the front airbag system.

When triggered, the side airb ag inflates in milliseconds and forms a safety cushion for the driver and/or front passenger in the respective door area. The risk of injury to the upper b od y and pelvis in the event of a side-imp act is thereby substantially reduced.



There must be no objects in the area in which the airbag inflates or in the area between the seat backrests and the vehicle body.

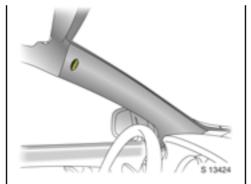
Do not place hands, arms or other body parts on the covers of the airbag systems.

Important information - see page 53.

The three-point seat belt must always be correctly fitted - see page 39.

The side airbags will not be triggered in the event of:

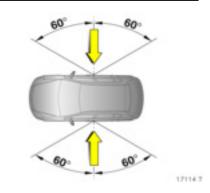
- the ignition being switched off,
- frontal collisions,
- accidents in which the vehicle overturns, if lateral impact is insufficient for side airb ag deployment,
- collisions involving a rear-impact,
- collisions involving a side-impact outside the passenger cell.



Curtain airbags

The curtain airbag system is identified by the word "Airbag" on the roof frame, and protects front seat and rear outboard seat occup ants in the event of a severe sideimpact.

- The curtain airbag system comprises:
- an airbag with inflator in the roof frame above the doors on the driver's and passenger's side respectively,
- the control electronics,
- the side-impact sensors,
- the airbag systems control indicator ***** in the instrument cluster.



The curtain a irbag system will be triggered:

- depending on the severity of the accident,
- depending on the type of impact,
- within the range shown in the illustration,
- together with the side airbag system,
- independently of the front airbag system.

52 Seats, interior

When triggered, the curtain airbag inflates in milliseconds and provides a safety barrier in the head area on the respective side of the vehicle. This reduces the risk of injury to the head considerably in the event of a side-im pact.

⚠Warning

There must be no objects in the area in which the airbag inflates. Do not place hands, a ms or other body parts on the covers of the airbag systems.

Never secure anything to the roof by routing ropes through the doors or windows, to avoid obstructing inflation of the curtain airbags.

Important information – see page 53.

The three-point seat belt must always be correctly fitted – see page 39.

The curtain airbags will not be triggered in the event of:

- the ignition being switched off,
- frontal collisions,
- accidents in which the vehicle overtums, if lateral impact is insufficient for curtain airbag deployment,
- collisions involving a rear-impact,
- collisions involving a side-impact outside the passenger cell.



Airb ag cont rol indica tor 🎗

The front airbag system, side airbag system ***** and curtain airbag system are monitored electronically together with the belt tensioners, and their operational readiness is shown by the red control indicator ***** in the instrument cluster.

When the ignition is switched on, the control indicator flashes several times then extinguishes. If it does not flash, stays lit, illuminates or flashes whilst driving, there is a fault in the airbag systems or with the belt tensioners. The systems might not therefore be triggered in the event of an accident (see also page 41).

∆Warning

Have the cause of the fault remedied by a workshop.

The system's integral self-diagnosis facility allows faults to be quickly remedied.

∆Warning

Disreg ard of these instructions may lead to injuries or end ang er life.

Imp or tant

- Accessories not released for your vehicle type and other objects must not be affixed or placed in the area in which the airbags inflate, as they could cause injury when the airbags are triggered.
- Do not place any objects between the airbag systems and the vehicle occupants; danger of injury.
- Only use the hooks on the assist grips in the roof frame to hang up light articles of clothing or coat hangers. Do not place any objects in the pockets of the hanging items; risk of injury.
- Do not stick or place anything on the steering wheel, instrument panel, front seat backrests in the vicinity of the airbags and seat areas or cover them with other materials.
- The airb ag systems and belt tensioner control electronics can be found in the centre console area. In order to avoid malfunctions, do not store magnetic objects in this area.

- Use only a dry cloth or interior cleaner to clean the steering wheel, instrument panel, front seat backrests, roof frame and seat area of the front seats. Do not use any aggressive cleaning agents.
- Only protective covers which are approved for your vehicle with side airbags * may be fitted on the front seats. When fitting the protective covers, make sure that the airbag units on the outboard sides of the front seat backrests are not covered.
- The airbag systems are triggered independently of each other, depending on the severity of the accident and the type of impact. The side airbag system * and the curtain airbag system are triggered together.
- During off-road driving especially, airbags can also inflate in moderate to severe non-collision situations such as when slamming the undercarriage or other solid components of the vehicle in a dip in the driving surface.
- Each airbag can be triggered only once. Once triggered, an airbag must be replaced immediately by a workshop.

54 Seats, interior

- After airbags deflate, you may notice a burning smell, smoke and white powder in the interior, which is normal. Although they may cause skin or eye irritation, these substances are non-toxic.
- Hazard warning lights may flash and locked doors may be unlocked automatically when airbags deploy *.
- The speeds, directions of movement and deformation properties of the vehicles, and the properties of the obstacle concerned, determine the severity of the accident and triggering of the airbags.
- The degree of damage to your vehicle and the resulting repair costs alone are not indicative that the criteria for triggering of the airbags were met.
- Do not perform any modifications to the components of the airbag systems, as this will render the vehicle unroadworthy.

⚠Warning

The systems can be triggered abruptly and cause injury if they are handled improperly.

- We recommend having the steering wheel, the instrument panel, all panelling parts, the door seals, handles and the front seats removed by a workshop in the event of airbag deployment.
- When disposing of the vehicle, observe the applicable safety regulations. Take the vehicle to a recycling company for disposal.

∆Warning

Child restraint systems as well as other heavy objects must never be carried on the lap of passengers; risk of fatal injury.



Use of child restraint systems ***** on front passenger's seat

∕∆Warning

No child restraint system may be installed to the front passenger's seat. Danger to life.



\$ 13355

Storage

Luggage compartment cover

<u>To close</u>

Pull luggage compartment cover towards rear of vehicle using handle and insert retainers into brackets on either side of luggage compartment.

<u>To open</u>

Remove luggage compartment cover from side brackets. It rolls up automatically.

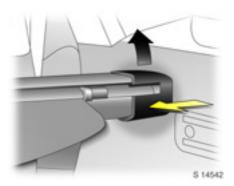
Notes on loading the vehicle:

See page 59.

∆Warning

Do not place any heavy or sharp objects on the cover.

Loose objects in the luggage compartment should be secured safely.



<u>To remove</u> Open luggage com partment cover.

Pull socket on either side of cover towards centre of vehicle, lift and remove cover from the side guides.

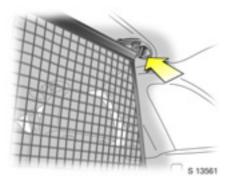
Fit in reverse order.

56 Seats, interior

Safety net 🛠

The safety net can be mounted behind the rear seats or, if the rear seat backrests are folded, in front of the rear seats.

Passengers must not be transported behind the safety net.



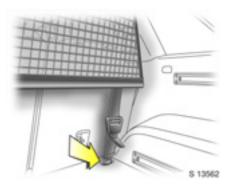
Fitting

There are four installation openings in the roof frame, two located in front of and two behind the rear seats.

When fitting behind the rear seats, remove the luggage compartment cover see page 55.

When fitting in front of the rear seats, fold down rear seat backrests - see page 37.

Open aperture covers on the roof frame and insert top corners of safety net into large apertures in roof frame and secure by sliding them into the smaller apertures.



In front of and behind the rear seats on both sides of the vehicle are the hook holders (lashing eyes) for the lower strap hooks.

Hang strap hooks in the two lashing eyes. Pull on the straps to take up any slack.

⚠Warning

Do not stack loads higher than the upper end of the safety net.

Avoid applying excessive force to the safety net or hanging heavy items from it.

Do not place loads behind the safety net which have sharp edges that could pass through the net in the event of heavy braking, for example.

Removing

Loosen straps by pulling up strap a djusters and remove the strap hooks from the lashing eyes.

Pull top corners of safety net from the smaller apertures into the larger apertures and remove.



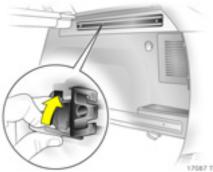
Lashing eyes

Lashing eyes are mounted on the luggage compartment floor, to enable loads to be secured in position using lashing straps ***** or a luggage floor net *****. Two lashing eyes are located in front of the rear seats for fitting a safety net ***** - see page 56. Designed for carrying small, light items only, the luggage floor net * helps keep loads from moving during sharp turns or quick starts and stops.

To install: attach the four net hooks to the lashing eyes mounted on the luggage compartment floor.

∆Warning

Do not carry heavy objects in the luggage floor net. Loose objects in the luggage compartment should be secured safely.



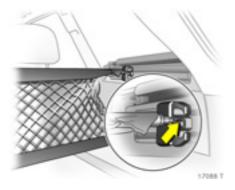
Flex Organizer *

Flexible system for dividing the luggage compartment or securing loads.

The system consists of:

- adapters
- variable partition net
- mesh pockets for the side walls
- hooks in the luggage compartment

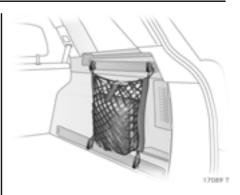
Components are mounted in the two guide rails in the side walls of the luggage compartment by means of adapters or hooks



Variable partition net

Insert an adapter in each rail: fold up handle plate, insert adapter in upper and lower groove of rails, move to desired position.

To lock the adapter, swivel the handle plate up. Compress the rods of the partition net slightly and insert in corresponding openings of the adapter. The longer rod must be inserted in the up per ad apter.



Hooks and mesh pocket

Insert the hooks in the desired position in the rails: insert the hook in the upper groove on the rail and press in the lower groove. The mesh pocket can be hung from the hooks

Removing

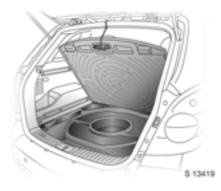
Press the partition net rods together and remove from the adapters.

Adapter: fold open the retainer, release the adapter from the lower groove and remove from the upper groove.

Release the hooks from the rails



Luggage compartment storage * Trays on both sides of the luggage compartment floor.



Lugg age compartment under floor storage *

To access the under floor storage, push both levers on floor cover towards the handle - see page 172. Pull floor cover up wards by the handle and hang the hook to the upper part of the tailgate opening.

∆Warning

Do not allow objects to protrude above the top of the under floor storage, to avoid damage to the storage area and the lugg age compartment floor.

Notes on loading the vehicle

Heavy objects in the luggage compartment should be placed as far forward as possible. If objects are to be stacked, the heavier objects should be placed at the bottom.

With rear seats in the folded position, or with safety net * installed behind rear seats, objects must not be stacked higher than the seat backrests.

Unsecured objects in the luggage compartment would be thrown forward with great force in the event of heavy braking, for example.

- Secure heavy objects with lashing straps * attached to the lashing eyes. If heavy loads slip when the vehicle is braked heavily or driven around a bend, the handling of the vehicle may change.
- Secure loose items in luggage compartment using FlexOrganizer * or luggage floor net * to prevent sliding.
- When transporting objects in the lug gage compartment, fit safety net * see page 56.

- Close the luggage compartment cover to prevent the objects from being reflected in the rear wind ow.
- If the backrests are not folded down when transporting objects in the luggage compartment, they must be engaged in their upright position see page 37.
- Do not allow the load to protrude above the upper edge of the rear seat backrests, or if the rear seat backrests have been folded down onto the seat cushions, a bove the upper edge of the front seat backrests.
- The warning triangle * and first aid kit * should always be freely a ccessible.
- No objects should be placed on the lugga ge compartment cover or the instrument panel. They are reflected in the glass, obstruct the driver's view and will be thrown through the vehicle in the event of heavy braking, for example.
- No objects should be stored in any of the airb ag inflation zones, as injuries may be caused when the airbag is triggered.

- The load must not obstruct the operation of the p edals, handbrak e and gearshift lever or hinder the freedom of movement of the driver. Do not place any unsecured objects in the interior.
- Bulky objects should not be transported with the tailgate open or a jar, otherwise poisonous exhaust fumes may enter the vehicle.
- Weights, payload and roof load see page 214.
- Driving with a roof load (see also page 123) increases the sensitivity of the vehicle to crosswinds and has a detrimental effect on vehicle handling owing to the higher centre of gravity of the vehicle.

∆Warning

Disregard of these instructions may lead to injuries or endanger life. Vehicle passengers must be informed accordingly.



Stowage compartments Glove compartment To open, pull handle upwards.

The glove compartment will illuminate when opened.

The glove compartment partition can be removed from its groove.

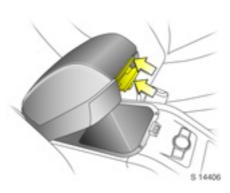
Store the partition in the groove on the far left-hand side of the glove compartment.

∆Warning

Do not drive with glove compartment open; risk of injury in the event of heavy braking or a collision.

Glove compartment cooling ***** - see page 101.

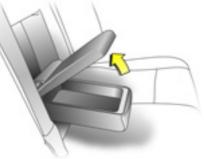




Console box in front armrest ***** To open: pull up lower lever and lift the lid.

To close: lower lid and push it down until it latches into position.

To use the tray *: ensure armrest is in its rearmost position, pull up on upper lever and lift the lid.



\$ 14407

Console box in rear armrest ***** To open: pull up lid of rear centre armrest.

To close: lower lid and push it down until it latches into position.

Sunglass holder

To open: push the rear part of the front reading lights cover.

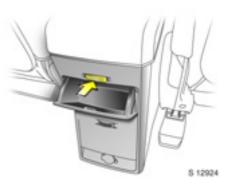
To close: pull up cover and push it until it latches into place.

Do not store heavy items in the stowage compartment.



S 1356

Front passenger's seat undertray * Pull up on front of tray then pullit forwards. Push the tray towards the seat to return it to its original position.



Storage compartment ***** Located in rear of centre console.

To open: press button above the storage compartment.

\$ 13491

Console net ***** Located in the driver's footwell.

Card holder

Located below instrument panel on driver's side. Insert a card into the slot for convenient use.

Coin storage

Open by pulling hand le on coin stora ge door (located below card holder) towards you. Push door firmly to close.



Located in the front ***** and rear of the centre console.

The front drink holder is a fixed size.

The rear drink holder is flexible, allowing different size drink containers to be stored.

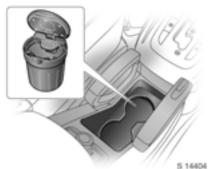
To open: press button above rear drink holder.

Ashtrays 🛠

To be used only for ash and not for combustible rubbish.



Disregard of these instructions may lead to injuries or endanger life. Vehicle passengers must be informed accordingly.



Portable front ashtray 🛠 Located in front drink holder.

To open: gently lift up lid. Illuminates depending on outside light conditions.

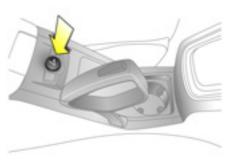
To empty: rotate upper part of ashtray anticlockwise and remove.

After use, close lid firmly.

To replace battery: remove screw on ashtray lid and replace with CR2032 (or equivalent) battery.

Warning triangle 🛦 *, First aid kit 🖶 *

Your first aid kit and warning triangle can be accommodated below the floor cover in the luggage compartment.



\$ 14403

Power outlets Cigarette lighter 🚣

With starter switch in positions ACC or ON, push the cigarette lighter in all the way.

Heating up ceases once element is glowing; cigarette lighter pops up automatically. Withdraw lighter.



\$ 13394

Accessory sockets

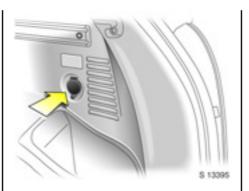
Located in the rear centre console between the front seats and in the right-hand side of the luggage compartment *.

Operational with starter switch in positions ACC or ON.

Pull the cap out to use the accessory socket, and replace it when not in use.

The sock et for the cigarette lighter can also be used to connect electrical accessories when the ignition is switched on.

Use of accessory sockets while the engine is not running will discharge the battery.

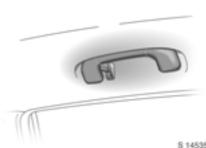


The maximum power requirement of electrical accessories must not exceed 120 watts.

Do not connect any current delivering accessories, e.g. electrical charging devices or batteries

Connected electrical accessories must comply with the EC standard in terms of electromagnetic compatibility requirements laid down in DIN VDE 40 839, otherwise vehicle malfunctions may occur.

The use of non-authorised accessories may cause damage to the socket.



8 14535

Assist grips

Located above the driver's door *****, the front passenger's door and both rear doors.

Pull arip down and hold to assist when entering or exiting the vehicle. Grips swing back up automatically when released.

Rear door assist grips also include coat hangers.

Instruments, controls

66
71
72
87
87
88
88



Control indicators

The control indicators described here are not present in all vehicles. The descriptions however, apply to all instrument versions.

The colours of the control indicators mean:

- Red Danger, important reminder,
- \blacksquare Yellow Waming, information, fault,
- $\blacksquare \ {\sf Green} \quad {\sf Confirmation} \ {\sf of} \ {\sf activation},$
- Blue Confirmation of activation.

(ABS)

ABS (Anti-lock Brake System) see page 144.

Trailer indicator 🛠

Illuminates in green when a trailer is connected to the vehicle. Extinguishes when the trailer is disconnected.

(D)(D) Brake system

Illuminates in red when ignition is switched on. Extinguishes after engine is started.

Illuminates when engine is running if handbrake is applied and/or fluid level for brake hydraulics is too low.



If it illuminates when the handbrake is not applied: stop vehicle; interrupt your journey immediately. Consult a workshop.

Further information - see page 141.

ℙッ∕▲

Parking distance sensors 🛠

Illuminates in yellow when ignition is switched on.

If it stays illuminated while driving, there is a fault in the system - see page 138.

DCS (Descent Control System)

Both control indicators illuminate when ignition is switched on.

<u>Green;</u> illuminates when DCS is ready for operation. Flashes during driving when DCS is in operation, after pressing the DCS button.

Yellow; flashes to indicate system is not ready for conditions to operate. Illuminates to indicate there is a fault in the system.

If the yellow control indicator flashes or illuminates during driving, friction material needs to cool down: drive the vehicle without braking as much as possible.

Further information - see page 134.

707 ЮН

AWD (All Wheel Drive)

Illuminates in yellow when ignition is switched on, then extinguishes.

If it flashes during driving, the AWD system is temporarily disabled.

If it illuminates, there is a fault in the system. Consult a workshop as soon as possible.

Further information - see page 117.

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ESC Active & Warning (Electronic Stability Control) see page 132.

RESC Not Ready see page 132.

ESC OFF seepage 132. ₽

Automatic head light range adjustment * Illuminates in yellow when ignition is switched on, then extinguishes.

Comes on during driving to indicate a fault that requires immediate attention. Consult a workshop as soon as possible.

Further information - see page 93.

.₤ Coolant temperature

Illuminates in red when ignition is switched on, then extinguishes.

If it illuminates when the engine is running: stop vehicleand switch offengine. Coolant temperature is too high; danger of engine dam age. Check coolant level.

∆Warning

Allow engine to cool down before removing coolant filler cap.

Further information - see page 191.

A

Electronic immobiliser

Illuminates in red when ignition is switched on, then extinguishes.

If it remains illum inated when the ignition is on, there is a fault in the immobiliser system; the engine cannot be started see page 18.

🔂 Door open

Illuminates in red when a door is open.

Þ

Engine electronics, transmission electronics * Illuminates in yellow when ignition is switched on, then extinguishes.

If it illuminates during driving; there may be a fault in the engine or transmission electronics: interrupt your joumey and consult a workshop as soon as possible.

Further information - see page 130.

Airb ag systems *, belt tensioners see pages 40, 48.

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Ta ilgat e op en

Illuminates in red when ignition is switched on, then extinguishes.

Illuminates when tailgate is open or not securely latched.

Tailgate - see page 22.

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Driver's seat belt reminder

Illuminates in red when ignition is switched on, then extinguishes.

When the engine is running, if driver's seat belt is not engaged, it will flash for approx. 90 seconds and then illuminate until driver's seat belt is fastened.

If vehicle speed exceeds approx. 14 mph (22 km/h), control indicator will flash for approx. 90 seconds along with a warning chime and then remains illuminated until driver's seat belt is fastened.

Seat belts - see page 39.

⊲⊳

Turn signal lights

The relevant control indicator flashes in green when the turn signal is on.

Rapid flash; failure of a turn signal bulb or the corresponding fuse or failure of a trailer turn signal bulb *. Both control indicators flash when the hazard warning lights are active.

Further information - see pages 10, 91. Bulb replacement - see page 181. Fuses - see page 177.

1

Low fuel level

Illuminates in yellow when ignition is switched on, then extinguishes.

If it illuminates during driving; fuel level low: fill up fuel tank as soon as possible.

Never let the tank run dry.

Erratic fuel supply can cause catalytic converter to overheat - see page 129.

Dieselengines: if the tank has been run dry, bleed the fuel system as described on page 167.

Refuelling - see page 128. Fuel tank capacity - see page 218.

耓

Front fog lights

Illuminates in green when front fog lights are switched on - see page 92.

Øŧ

Fog tail light

Illuminates in yellow when the fog tail light is switched on - see page 92.

≣D

Headlight main beam

Illuminates in blue when main beam is on and when headlight flash is operated see pages 10, 91.

Ö

Low wind screen wash fluid

Illuminates in yellow when ignition is switched on, then extinguishes.

If it illuminates: windscreen wash fluid level low, a dd wash fluid as soon as possible see page 195.

Û

Water in diesel fuel filter 🛠

Illuminates in yellow when water level in diesel fuel filter exceeds a specified level. Residual water in the diesel fuel filter will need to be drained - see page 190. Consult a workshop as soon as possible.

¶~±∽₀

Change engine oil 🛠

Illuminates in yellow when ignition is switched on, then extinguishes.

Illum inates to indicate that engine oil needs changing within approx. 600 miles (1000 km). Engine power may be decreased.

Once the engine oil has been changed, the engine oil life monitor needs to be reset - see page 190.

00

Preheating for diesel engines *

Illuminated in yellow during preheating.

Preheating system switches on only if outside temperature is low.

If it comes on during driving or if the engine cannot be started, consult a workshop as soon as possible.

Starting the engine - see page 15.

<u></u>

DPF (Diesel particle filter)*

Illuminates in yellow when diesel particle filter requires cleaning.

As soon as the road and traffic situation permits it, increase speed to more than 30 mph (50 km/h) for approx. 15 minutes. The control indicator extinguishes as soon as cleaning is complete.

Further information - see page 131.

R)

Cruise control ***** see page 136.

Ĕ

Engine oil level *

Illuminates in yellow when ignition is switched on, then extinguishes.

If it illuminates during driving; oil level low: top up oil to specified level see page 188.

@!

Power steering

Illuminates in yellow when ignition is switched on, then extinguishes.

If it does not illuminate when the ignition is switched on, stays illuminated or illuminates during driving, there is a fault in the system. Consult a workshop as soon as possible.

Ś

Anti-theft alarm system activation without monitoring of passenger compartment and vehicle tilt ***** see page 24.

2

Engine oil pressure

Illuminates in red when gnition is switched on. Extinguishes after engine is started. Can illuminate intermittently when idling with hot engine; must extinguish when engine speed is increased.

If it illuminates during driving;

engine oil pressure may be dangerously low, interrupting engine lubrication and resulting in damage to the engine and/or locking of the driving wheels:

- Move out of the flow of traffic as quickly as possible without impeding other vehicles,
- Depress clutch,
- Move gearshift lever to neutral (automatic transmission to N),
- Switch off ignition.

∆Warning

When the engine is off, considerably greater force will be required for braking and steering.

Do not remove key until vehicle has come to a standstill, otherwise the steering column lock could engage unexpectedly.

Check engine oil level before consulting a workshop. If the oil level is low, top up using the specified engine oil - see pages 188, 206, 210.

If the oil level is normal, have a workshop check the vehicle's lubricating system.

ĒÐ

Alternator

Illuminates in red when ignition is switched on. Extinguishes after engine is started.

If it illuminates during driving: stop vehicle and switch off engine. The battery is not being charged and the engine cooling may be interrupted. The brake servo unit may cease to be effective. Interrupt your journey immediately. Remove key and check drive belt condition and tensioning before consulting a workshop.

۲Ċ)

Exhaust emissions

Illuminates in yellow when ignition is switched on. Extinguishes after engine is started. Can illuminate briefly when driving; this is normal and does not indicate a system fault.

<u>If it illuminates when the engine is running;</u> fault in emission control system. The permitted emission limits may be exceeded. Fuel economy and vehicle driveability may be impaired.

The control indicator also illuminates if there is a fault in the diesel particle filter *****. Consult a workshop as soon as possible.

<u>If it flashes when the engine is running;</u> for a fault that can lead to destruction of the catalytic converter, see page 130. Consult a workshop as soon as possible.

WINTER

Winter programme 🛠

Illuminates in yellow when Winter programme for the automatic transmission is enabled - see page 113.



Instrument display Tachometer

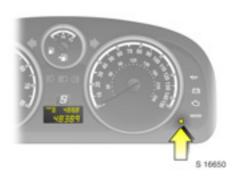
Making use of the tachometer helps to save fuel; it indicates the engine speed in revolutions per minute (rpm).

Red warning zone on right; maximum permissible engine speed exceeded, danger to engine.

If possible, drive in each gear in the low engine speed range (between approx. 2000 and 3000 rpm) and maintain an even vehicle speed to maximise fuel efficiency.



Speedometer Indicates the vehicle speed.



Odometer

The odometer indicates how far the vehicle has been driven.

Trip odometer

There are two independent trip odometers which indicate how far the vehicle has been driven since the last reset.

Press the trip odometer button once to toggle between **Trip A** and **Trip B**.

To reset a trip odometer, press and hold the trip odometer button.



Fuel gauge

Indicates fuel level when the ignition is on.

After adding fuel and restarting engine, fuel gauge pointer slowly moves to show new fuel level.

When fuelgauge indicates that fuel supply is low, control indicator **D** illuminates: fill up fuel tank as soon as possible see page 128.

Never let the fuel tank become empty. Dieselengines: if the tank has been run dry, bleed the fuel system as described on page 167.

Because of the amount of fuel remaining in the tank, the amount of fuel required to fill the tank may be less than the specified tank capacity.



Transmission display 🛠

Display of the selected gear or mode with automatic transmission

- P Park position.
- R Reverse gear.
- N Neutral.

D

- Automatic mode.
- 1 to 5 Selected gear in Manual mode.



Information display Board Information Display

Display of time, outside temperature and date / Infota inment system (when it is on).

An **F** in the display indicates a fault. Have the cause of the fault remedied by a workshop.



17329 1

Graphical Information Display *, Colour Information Display *

Display of time, outside temperature, and date / Infotainment system (when it is on).

The Graphical Information Display presents the information in monochrome. The Colour Information Display presents the information in colour. The type of information and how it is displayed depends on the equipment of the vehicle and the settings of the trip computer ***** and Infotainment system.

Some information appears on the display in an abbreviated form.

Infotainment system – see Infotainment system instruction manual.

An **F** in the display indicates a fault. Have the cause of the fault remedied by a workshop.



17337 T

Outside temperature

A fall in temperature is indicated immediately and a rise in temperature after a time delay.

If outside temperature drops to 3 °C, the symbol illuminates in the Board Information Display as a waming for icy road surfaces. remains illuminated until outside temperature reaches at least 5 °C.



In vehicles with Graphical Information Display * or Colour Information Display *, a warning message appears on the display as a warning for icy road surfaces. There is no message below -5 °C.

∕∆Warning

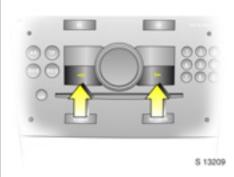
Caution: the road surface may already be icy, even though the display indicates a few degrees above $0 \, ^{\circ}$ C.

11:25° 21.5° Range 257miles 17337 T

Board Information Display, selecting functions

Functions and settings of some equipment can be accessed via the Board Information Display.

This is done via the menus and the buttons on the Infotainment system or with the left adjuster wheel on the steering wheel. The relevant menu options are then shown on the subsequent row of the display.



Selectmenu items using the arrow buttons:

OK button Select marked item, confirm command.



To select using the left adjuster wheel on the steering wheel:

Turn up	Previous menuitem.	
Turn down	Next menu item.	
Press	Select marked item	

ext menu item. elect marked item. confirm command

If check control ***** issues a warning message, the display is blocked from other functions. Acknowledge the message by pressing the **OK** button or the left adjuster wheel. If there are several warning messages, acknowledge them one at a time



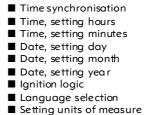
Board Information Display, system set tings

Press the Settings button on the Infotainment system. Menu item Audio or System will appear.

Press the left arrow button to reach menu item **System** and select. The first function of the System menu is marked.

Some of the functions appear on the display in an abbreviated form.

The functions are displayed in the following order.



11:25⊵ 21.5∝ Clock Sync.On

17337 T

Correcting time

Some RDS¹⁾ transmitters do not send a correct time signal. If the incorrect time is continually displayed, deactivate automatic time synchronisation **%** and set the time manually – see next column. The automatic setting is indicated by $\overset{0}{\stackrel{}{_{\sim}}}$ in the display.

To correct time with the help of RDS, select the menu item for time synchronisation from the **Settings** menu.

Make the desired setting.

<u>Setting date and time</u> Select the menu item for time and date setting from the **Settings** menu.

Make the desired setting.

The setting is saved when the menu item is exited.

Ignition logic ***** See Infotainment system instruction manual.



17337 T

Language selection

You can select the display language for some functions.

Select the menu item for language from the **Settings** menu and make the desired setting.

11:25© 21.5℃ Unit Europe-SI

17337 1

Setting units of measure You can select which units of measure are to be used.

Select the menu item for units of measure from the **Settings** menu and make the desired setting.

Board Information Display, trip computer *****

The trip computer provides information on driving data, which is continually recorded and evaluated electronically.

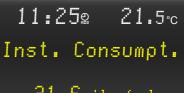
Access trip computer vehicle data by pressing the **BC** button on the Infotainment system or the left adjuster wheel on the steering wheel.

Some of the functions appear on the display in an abbreviated form.

Once a function has been selected, the subsequent rows of the trip computer function are displayed.

The functions are displayed in the following order:

- Instanta neous consumption
- Average consumption
- Effective consumption
- Average speed
- Distance travelled
- Range
- Stop watch



31.6miles/gal

17337 T

Instantaneous consumption Display changes depending on speed;

Display in gal/h below 8 mph (13 km/h). Display in miles/gal above 8 mph (13 km/h).

78 Instruments, controls

Average consumption

Display of average consumption. The measurement can be restarted at any time – see "Resetting trip computer information".

Effective consumption

Displays amount of fuel consumed. The measurement can be restarted at any time – see "Resetting trip computer information".

Average speed

Display of average speed. The measurement can be restarted at any time - see "Resetting trip computer information".

Stoppages in the journey with the ignition off are not included in the calculations.

Distance travelled

Displays number of miles (kilometres) driven. The measurement can be restarted at any time – see "Resetting trip computer information".



Range

Range is calculated from current fuel tank content and instantaneous consumption. The display shows average values.

The vehicle updates the range automatically after a brief delay when the vehicle has been refuelled.

If the fuel in the tank will a low less than 30 miles (50 km) of travel, the warning "Range" appears on the display.

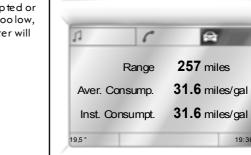
If the fuel in the tank will a low less than 20 miles (30 km) of travel, the warning "Refue!!" * appears on the display.

<u>Resetting trip computer information</u> The following trip computer information can be reset (restart measurements):

- Average consumption
- Effective consumption
- Average speed
- Distance travelled

Select the desired trip computer information.

Reset by pressing the left a djuster wheel on the steering wheel or the \mathbf{OK} button on the Infotainment system.



17329 T

19:36

Graphical Information Display * or Colour Information Display *, selecting functions

The functions and settings of some equipment ***** can be accessed via the Graphical Information Display or the Colour Information Display.

Functions are selected and executed in the menu on the display using the arrow buttons *, the multi-function knob * on the Infotainment system or the left adjuster wheel on the steering wheel.

Interruption of power supply

If the power supply has been interrupted or if the battery voltage has dropped too low, the values stored in the trip computer will be lost.

11:25[°] 21.5[°] c Stop Watch 01:22:32h

17337 T

Stop watch Operating using the arrow buttons:

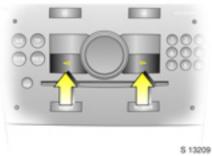
To start, press left arrow button to select menu item Start and press OK button to start/stop.

To reset, press left arrow button to select menu item **Reset** and press **OK** button.

Operating using the left adjuster wheel on the steering wheel:

To start, select menu item **Start** and press to start / stop.

To reset, select menu item Reset and press to confirm command.



To select using the arrow buttons:

Select menu items via menus and with the buttons on the Infotainment system.

If check control ***** issues a warning message, the display is blocked from other functions. Acknowledge the message by pressing the right or left arrow button. If there are several warning messages, acknowledge them one at a time.



12513 T

To select using the multi-function knob:

Turn	Mark menu items or		
	commands, select functions.		
Press	Select marked item, confirm		
	command.		

To exit a menu, turn the multi-function knob left or right to **Return** or **Main** and select.

If check control ***** issues a warning message, the display is blocked from other functions. Acknowledge the message by pressing the multi-function knob. If there are several warning messages, acknowledge them one at a time.



To select using the left adjuster wheel on the steering wheel:

Turn up	Previous menu item.
Turn down	Next menu item.
Press	Select marked item,
	confirm command.

If check control ***** issues a warning message, the display is blocked from other functions. Acknowledge the message by pressing the left adjuster wheel. If there are several warning messages, acknowledge them one at a time.



For each functional area there is a main page (Main), which is selected at the top edge of the display:

- Audio
- Navigation *****
- Telephone *
- Trip computer *

For audio, navigation ***** and telephone ***** functions – see Infotainment system instruction manual.

🖉 Settings	19,5° 19:36
Time, Date	19:36
Language	
Units	10.07.2004
Contrast	
Day / Night	
🛛 Ign. Iogic	

Graphical Information Display * or Colour Information Display *,

system set tings

The settings are accessed via the **Settings** menu.

Press the **Main** button * (not found on all Infotainment systems) on the Infotainment system (call up main display).

Press the **Settings** button on the Infotainment system. On Infotainment System CD 30, make sure no menu has been selected.

The **Settings** menu is displayed.



Setting date and time Select menu item **Time**, **Date** from the **Settings** menu.

The menu for **Time**, **Date** is displayed.

Select the menu items required: make the desired setting.

Correcting time *

With the navigation system, date and time are set automatically upon receipt of a GPS¹⁾ satellite signal. If the displayed time does not match local time, it can be corrected manually or automatically by receiving an RDS²⁾ time signal *****.

Some RDS transmitters do not send correct time signals. If the incorrect time is displayed often, deactivate automatic time synchronisation ***** and set the time manually.

To correct time with the help of RDS, select menu item **Synchron. clock automatical.** from the **Time, Date** menu.

The box in front of **Synchron. clock automatical.** will be ticked: see Fig. 17340 T.
 ✓ Settings
 19,5° 19:36

 Time, Date
 Language

 Language
 Deutsch

 Units
 English

 Contrast
 Español

 Day / Night
 ...

 ☑ Ign. logic
 ...

Language selection

You can select the display language for some functions.

Select menu item **Langua ge** from the **Settings** menu.

The available languages are displayed.



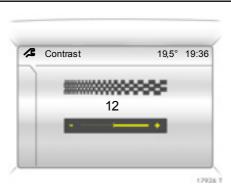
Select the desired language.

Selections are indicated by a \blacktriangleright in front of the menu item.

In systems with voice output *, when the language setting of the display is changed, the system will ask whether the announcement language should also be changed – see Infotainment system instruction manual.

 GPS = Global Positioning System, satellite system for world-wide positioning.
 RDS = Radio Data System.





Adjusting contrast ***** (Graphical Information Display) Select menu item **Contrast** from the **Settings** menu.

The menu for **Contrast** is displayed.

Confirm the required setting.

Setting display mod e 🛠

The display can be adjusted to suit the light conditions: black or coloured text on a light background or white or coloured text on a dark background.

Select menu item **Day / Night** from the **Settings** menu.

The options are displayed.

Automatic; adapted based on vehicle lighting.

Always day design; black or coloured text on light back ground.

Always night design; white or coloured text on dark background.

Selections are indicated by a \bullet in front of the menu item.

Ignition logic ***** See Infotainment system instruction manual.

Setting units of measure

You can select which units of measure are to be used.

Select menu item **Units** from the **Settings** menu.

The available units are displayed.

Select the desired unit.

Selections are indicated by a ${\ensuremath{\bullet}}$ in front of the menu item .





Graphical Information Display * or Colour Information Display *,

trip computer *

The trip computers provide information on driving data, which is continually recorded and evaluated electronically.

The trip computer main page provides information on range, average consumption and instantaneous consumption.

To display other trip computer data, press the **BC** button on the Infotainment system and select the trip computer menu in the display.

Range

Range is calculated from current fuel tank content and instantaneous consumption. The display shows average values.

After refuelling, the vehicle updates the range automatically after a brief delay.



If the fuel in the tank will allow less than 30 miles (50 km) of travel, the warning "Range" appears on the display.

If the fuel in the tank will allow less than 20 miles (30 km) of travel, the warning "Refuel!" ***** appears on the display.

Acknowledge the menu item as described on page 80.

Instantaneous consumption Display changes depending on speed;

Display in gal/h

below 8 mph (13 km/h).

Display in miles/gal

above 8 mph (13 km/h).

Distance travelled

Displays number of miles (kilometres) driven. The measurement can be restarted at any time - see "Resetting trip computer information".

Average speed

Display of average speed.

The measurement can be restarted at any time - see "Resetting trip computer information".

Stoppages in the journey with the ignition off are not included in the calculations.

Effective consumption

Displays amount of fuel consumed. The measurement can be restarted at any time - see "Resetting trip computer information".

Average consumption

Display of average consumption. The measurement can be restarted at any time - see "Resetting trip computer information".



<u>Resetting trip computer information</u> The following trip computer information can be reset (restart measurements):

Distance travelled

- Average speed
- Effective consumption
- Average consumption

Select $BC\ 1\ \text{or}\ BC\ 2\ \text{from the trip computer}$ menu.



The information of the two trip computers can be reset separately, making it possible to evaluate data from different time period s.

Select the desired trip computer information.

The value for the selected function will be reset and recalculated.



To reset all information of a trip computer, select menu item **All values**.

After resetting, "- - -" is displayed for the trip computer information selected. The recalculated values are displayed after a brief delay.

Interruption of power supply

If the power supply has been interrupted or if the battery voltage has dropped too low, the values stored in the trip computer will be lost.



17348 T

Stop watch

Select menu item **Timer** from the **Board Computer** menu.

The **Timer** menu is displayed.

To start, select menu item **Start**.

To reset, select menu item Reset.

The desired stop watch display can be selected from the **Options** menu *****:

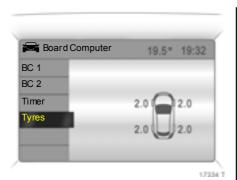
Driving Time excl. Stops

The time the vehicle is in motion is recorded. Stationary time is not included.

Driving Time incl. Stops The time the vehicle is in motion is recorded. The time the vehicle is stationary with the key in the starter switch is included.

Travel Time

Measurement of the time from manual activation via **Start** to manual deactivation via **Reset**.



Display of current tyre pressure *

Select menu item Tyres from the Board Computer menu.

The current pressure of each tyre is displayed.

Further information – see page 140.

Check control *

In vehicles with tyre pressure monitoring system *, if tyre pressure is too low, the display indicates which tyre to check, e.g.:

Tyre pressure check rear right tyre (value in bar)

Check tyre pressure at next opportunity using suitable gauge.

Tyre pressure monitoring system ***** – see page 140. Tyre pressure – see page 217.

In vehicles with tyre pressure monitoring system *, if there is a major loss of pressure in a tyre, the display indicates the tyre at fault, e.g.:

Attention! Rear left tyre pressure loss (value in bar)

Stop immediately and check tyre.

Tyre pressure monitoring system $\ensuremath{\boldsymbol{\ast}}$ – see page 140.

Tyre pressure – see page 217.

Warning buzzers

While driving:

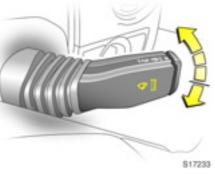
- when operating the turn signals.
- if driver's or passenger's seat belt * is not engaged when the seat is occupied and vehicle speed exceeds approx. 14 mph (22 km/h).

When the vehicle is parked and driver's door is opened:

■ with exterior lights switched on.

■ when the key is in the starter switch.

► Seat belt warning chimes see pages 42, 68, driving hints - see page 123, save fuel, protect the environment see page 125.



Windscreen wiper

To activate, move stalk upwards.

- \cap Off
- Timed interval wipe
- Slow
- Fast

Press stalk down from position O: single swipe.

Further information - see pages 194, 198, 200.



Adjustable wiper interval

To set the wiping interval to a value between 1 and 10 seconds: Switch on ignition.

Push stalk down from position O. Wait until wiping frequency reaches the desired interval time. Set the stalk to adjustable timed interval

wiper position --.

The interval remains stored until the next change or the ignition is switched off. Switching the ignition on and moving the stalk to -- sets the interval to 3.5 seconds.

In this mode, wiping frequency is also affected by vehicle speed. As vehicle speed increases, wiping will become more frequent.



Automatic wiping with rain sensor * To activate, move stalk upwards to automatic wiping with rain sensor position --.

The rain sensor detects the amount of water on the windscreen and automatically regulates the windscreen wiper.

The wiper operates for one cycle to check the system when the starter switch is turned to ACC

To turn wiper off, move stalk to position O.

Keep the rain sensor area clean by activating the windscreen wash system.

Further information - see pages 195, 198, 200.



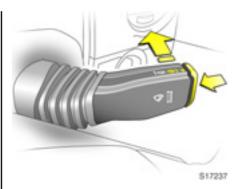
Windscreen and headlight wash systems *

To activate, pull stalk towards steering wheel. Wash fluid is sprayed onto the wind screen. If the stalk is held longer, the wiper operates for two cycles after the stak has been released and once more after a 3 second delay *.

The head light wash system ***** can only be operated when the headlights are on. Wash fluid is sprayed onto the headlights. The head light wash system can only be operated a gain after a short delay. If wash fluid level is low then this delay is increased.

On vehicles fitted with rain sensor *, keep the sensor area clean by activating the wind screen wash system.

Further information - see pages 195, 198, 200



Tailgate wiper and wash systems Activate wiper and wash as follows:

Wiper on	=	Push stalk forwards
Wiper off	=	Pull stalk back towards
		steering wheel
		- <u> </u>

- Wash
- = Press and hold button

Wash fluid is spraved on to tailaate window when the button on the end of the stalk is pressed. When the button is released, washing will stop, but the wiper will continue to swipe for approx. 3 cycles.

Further information - see pages 194, 195, 198.200.

Lighting

Main beam, headlight flash	91
Automatic dipped beam activation $\boldsymbol{*}$	91
Turn signal lights	91
Front fog lights ≱D	92
Fog tail light 0‡	92
Reversing lights	92
Centre high-mounted stop light	92
Hazard warning lights	93
Headlight range adjustment 🏷	93
Door-to-door lighting	94
Instrument illumination, information	
display illumination	94
Interior courtesy lights	94
Battery discharge protection	96
Headlights when driving abroad	96



Exterior lights

Turn light switch:

0	=	Off
∌€	=	Parking lights
≣D	=	Dipped beam or main beam
Αυτο	=	Automatic dipped beam activation *

In positions ≫€ and **B**, the tail lights, number plate lights and instrument panel lights are also on.

Day time running lights 🛠

Come on automatically when engine is started.

They will turn off when the parking lights or dipped beam are on, or when the engine is stopped.

Follow the regulations of the country in which you are driving when using daytime running lights and front fog lights.

Driving abroad - see page 96.

Lights on reminder

If the driver's door is opened when the light switch is in position ≫ or ≣D and the ignition is off, a warning chime will sound. If the lights are then switched off and back on again, the warning chime will not sound.

Wiper activated lighting *

With light switch in **AUTO** position, if windscreen wiper is operated for 8 cycles or more, the exterior lights illuminate automatically.

Approach lighting *

Depending upon outside light conditions, when you press \geq on the remote control, the hazard warning lights flash twice and the exterior lights illuminate for approx. 20 seconds.



\$17230

Main beam, headlight flash

To switch from dipped beam to main beam, push stalk forwards.

To switch back to dipped beam, pull stalk back towards steering wheel.

To activate the headlight flash, pull stalk towards steering wheel. Main beam is engaged for the duration of activation.

The blue control indicator **ED** is illuminated when main beam or head light flash is on.



Automatic dipped beam activation *

Light switch to AUTO: dipped begin comes on automatically when the engine is running, depending on outside light conditions

For reasons of safety, the light switch should always remain in the AUTO position.

To ensure automatic dipped beam activation functions properly, do not cover the light sensor on top of the instrument panel.



\$17231

Turn signal lights

To activate, press stalk up or down lightly.

Stalk up Right turn Left turn Stak down

When the steering wheel is turned back, the stalk automatically returns to its rest position. This will not happen when making

a minor steering manoeuvre such as lane changing. Tap signal: briefly move stalk to resistance

point. The turn signal then flashes three times when changing lanes or the like.

Hold the stalk if you want the tum signals to flash for longer. When released, the stalk will spring back to rest position.

The volume of the turn signal lights' audible warning is dependent upon vehicle speed.

92 Lighting



Front fog lights ≱D

- On = Press button 和, 和 illuminates in instrument cluster.
- Off = Press button 和 again, 和 extinguishes in instrument cluster.

The front fog lights can only be switched on when both the ignition and headlights are on.

With automatic dipped beam activation *****, parking lights and dipped beam come on simulta neously when the front fog lights are switched on.

Follow the regulations of the country in which you are driving when using front fog lights.



Fog tail light Oŧ

- On = Press button 0‡, 0‡ illumina tes in instrument cluster.
- Off = Press button 0‡ a gain, 0‡ exting uishes in instrument cluster.

The fog tail light can only be switched on when the ignition is on and the light switch is in position $\mathbb{B}D$, or the front fog lights are on and the light switch is in position $\mathbb{P}^{\mathbb{C}}$.

With automatic dipped beam activation *****, parking lights and dipped beam come on simultaneously when the fog tail light is switched on.

Reversing lights

Come on when reverse gear is engaged and ignition is switched on.

Centre high-mounted stop light

Comes on when the brakes are applied, acting as a third stop light, to supplement the brake lights.



Hazard warning lights

To switch on, press button $\underline{\mathbb{A}}$.

To switch off, press button $\underline{\mathbb{A}}$ again.

To aid location of the pushbutton, the red surface is illuminated when the ignition is switched on. When the button is pressed, its control indicator flashes in unison with the haz ard warning lights.



Headlight range adjustment № Manual headlight range adjustment *

With dipped beam switched on, adjust headlight range to suit vehicle load.

Correct adjustment of the headlight range reduces dazzle for other road users.

Automatic level control system ***** - see p age 139.

Vehicles without level control system

- Front seats occupied
 All seats occupied
 1
- All seats occupied and load in = 2 luggage compartment
- Driver's seat occupied and load = 3 in luggage compartment

Vehicles with level control system

- Front seats occupied = 0
- All seats occupied =
- All seats occupied and load in = 1 luggage compartment
- Driver's seat occupied and load = 2 in luggage compartment

Automatic head light range adjustment * On vehicles with Xenon headlights, the

range of the headlights is adjusted automatically based on vehicle load.

If control indicator № for automatic headlight range adjustment illuminates in the instrument cluster while driving, a fault has occurred.

Have the cause of the fault remedied immediately. Consult a workshop.

94 Lighting



Door-to-door lighting

The dipped beam and reversing lights illuminate for approx. 30 seconds after the driver exits the vehicle and closes the door.

To activate function:

- 1. Switch off ignition.
- 2. Remove ignition key.
- 3. Open driver's door.
- 4. Pull turn signal stalk towards steering wheel.

If the driver's door is left open, the lights will exting uish after two minutes.

Door-to-door lighting can be deactivated by inserting the key in the starter switch or by pulling the turn signal stalk towards the steering wheel aga in while the driver's door is open.



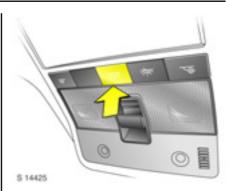
Instrument illumination, information display illumination

Comes on when ignition is switched on.

Brightness can be adjusted when the exterior lights are on: turn wheel to the right or left until the desired brightness is obtained.

If driver's door is opened or \geq is pressed on the remote control, instrument p anel lights will illuminate automatically and stay on for a pprox. 30 seconds until starter switch is turned to the ACC position.

Display mode * - see page 83.



Interior courtesy lights

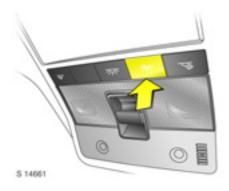
Front reading lights, rear interior lights and luggage compartment lights function as courtesy lighting and illuminate when the doors or tailgate are opened.

If doors or tailgate remain opened, the lights stay illuminated for approx. 10 minutes.

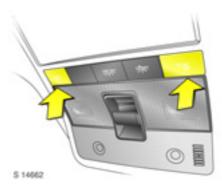
Once all doors and the tailgate are closed, the courtesy lights dim gradually after approx. 10 seconds.

By pressing button $\overline{\infty}$, both front reading lights and the rear interior lights illuminate.

Press the button a gain to tum the lights off.



Courtesy lights can be turned off immediately by pressing button $\dot{\Re}$.



Front reading lights

Left and right reading lights are individually operable. With ignition on:

- On = Press button 🐼 or 😵
- Off = Press button again

∆Warning

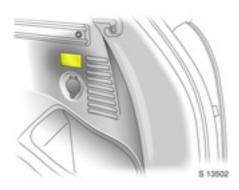
Avoid using interior lights while driving in the dark, as they can reduce driver visibility.



Rear interior lights

Press button to turn on left and right rear interior lights individually.

Press button again to tum the light off.



Luggage compartment lights Come on when a door or the tailgate is opened.

Front door lights

Come on when a door is opened.

Once all doors are closed, the front door lights extinguish after approx. 10 seconds. If the doors are left open, the lights will stay on for ap prox. 10 minutes.

Front door lights can also be turned off immediately by pressing button $\dot{\boldsymbol{x}}$ in the roof lining.

Starter switch ill um in ation

Comes on when you open a door.

Starter switch illumination can also be turned off immediately by pressing button $\dot{\pi}$ in the roof lining.

Sunvisor lights 🛠

Come on when vanity mirror covers are opened. See page 30.

Ashtray illumination

The portable front ashtray, located in the front drink holder, illuminates depending on outside light conditions. See page 64.

Glove compartment illumination

Comes on when the glove compartment is opened. See page 60.

Battery discharge protection

To prevent battery from becoming discharged, the external lights turn off automatically approx. 10 minutes after the ignition is switched off.

Battery discharge protection will not work if the lights are turned on 10 minutes after the ignition has been switched off; the key cannot be removed from the starter switch until the battery is recharged.

Headlights when driving abroad

The asymmetrical dipped beam increases the field of vision on the near side of the lane.

When driving in countries which drive on the opposite side of the road, this causes glare for oncoming traffic.

For temporary periods, to a void glare the headlight pattern should be adjusted down to the horizontal position.

Have the headlights adjusted by a workshop.

Infotainment system

Radio reception 🛠	97
Steering wheel mounted remote control	97
Mobile telephones and radio equipment (CB) *	98
Infotainment and navigation systems *	98

Radio reception *

The radio is operated as described in the operating instructions supplied.

Vehicle radio reception will differ from that obtained with domestic radios.

As the vehicle antenna is relatively near the ground, the broadcasting companies cannot a uarantee the same auality of reception as is obtained with a domestic radio using an overhead antenna.

Changes in distance from the transmitter

■ multi-path reception due to reflection and

sha dowina

may cause hissing, noise, distortion or loss of reception altogether.



Steering wheel mounted remote control

Infotainment system functions can be operated by the buttons mounted on the steering wheel.

Further information - see pages 75, 80 and the relevant operating instructions.

Mobile telephones and radio equipment (CB) *

The Vauxhall installation instructions and the operating guidelines provided by the telephone manufacturer must be observed when fitting and operating a mobile telephone. Failure to do so could invalidate the vehicle's operating permit (EU Directive 95/54/EG).

Requirements to ensure trouble-free operation:

- Professionally installed exterior antenna, to obtain the maximum range possible
- Maximum transmission power 10 W.
- Installation of the telephone in a suitable spot (front centre console).
 See important notes on page 53.

Obtain ad vice on predetermined installation locations for the external antenna and equipment holder and ways of using devices with transmission power of more than 10 Watts. We recommend that you consult your Vauxhall Authorised Repairer, who will have brackets and various installation kits and install them in accordance with regulations.

Operation of a hands-free attachment with no outside antenna, using the mobile telephone standards GSM 900/1800/1900 and UMTS, may take place only if the maximum transmission power of the mobile telephone does not exceed 2 W, in the case of GSM 900, and otherwise 1 W. The operating instructions of the manufacturer of the telephone and handsfree attachment must be noted in all cases.

For reasons of safety, we recommend that you do not use the phone while driving. Even use of a hands-free set can be a distraction while driving. Be sure to observe any country-specific regulations.

∆Warning

When used in the vehicle interior, mobile telephones and radio equipment (CB) with integrated antenna may cause malfunctions in the vehicle electronics.

Mobile telephones and radio equipment (CB) should only be used with an antenna fitted on the vehicle exterior.

Infotainment and navigation systems *

The systems are operated as described in the instruction manuals supplied.

The navigation system is supplied with a CD or DVD detailing the local territory.

For additional countries / territories, separate CD's are available from your Vauxhall Authorised Repairer.

Climate control

Heating and ventilation system,

air conditioning system	99
Electronic Climate Control (ECC) 🛠	99
Air vents	100
Heated rear window,	
heated exterior mirrors 🛠	101
Heated front seats *	101
Glove compartment cooling 🛠	101
Heating and ventilation system	102
Air recirculation mode	105
Air conditioning system	105
Electronic Climate Control (ECC) 🛠	107
Air intake	110
Pollen filter	110
Note	110
Maintenance	110



Heating and ventilation system, air conditioning system

Ventilation, heating and cooling are combined into one unit that is designed to provide comfort regardless of the season, weather or outside temperature.

When cooling is activated, the air is cooled and dehumidified (dried).

The heating unit heats the air as required in all operating modes, depending on the position of the temperature rotary knob. The air supply can be adjusted to suit personal requirements by means of the fan.

Air conditioning system - see page 105.

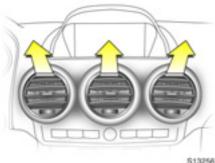


Electronic Climate Control (ECC)*

Provides the greatest amount of comfortin the vehicle interior, regardless of the weather, outside temperature or season.

To ensure a constant and comfortable climate in the vehicle, the temperature of inflowing air, the airflow rate, air distribution mode, air recirculation mode and air conditioning are automatically ada pted based on the climate conditions outside the vehicle and the current temperature of the vehicle interior.

Electronic Climate Control (ECC) * - see page 107.



\$13256

Air vents

Pleasant ventilation to the head area with unheated or slightly warmed air depending on the position of the temperature rotary knob.

Centre air vents

To open and close air vents, turn horizontal knurled wheel to the left or right.

Open air vents when air distribution rotary knob is set to \ddagger or \ddagger .

The air supply is increased by switching on the fan.

The airflow can be directed as desired by tilting and swivelling the slats up, down and sideways.



Side air vents

To open and close air vents, turn horizontal knurled wheel to the left or right.

Open air vents when air distribution rotary knob is set to $\not i$ or $\not j$.

Depending up on the position of the temperature rotary knob, cold or heated air will be directed into the vehicle via these air vents.

The air supply is increased by switching on the fan.

The airflow can be directed as desired by tilting and swivelling the slats up, down and sideways.

Door window defroster vents

Air distribution rotary knob set to \ddot{z} or \dot{z} ; cooled or heated air will be directed onto the windscreen and onto the door windows (mainly in the area of the exterior mirrors).

Rear air vents

Operational when air distribution rotary knob is set to 🗱 🕁 or 🛱.

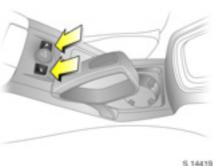
Cooled or heated air is directed into the footwell area of the rear passenger compartment.

Keep the area undemeath the front seats clear, to allow airflow to the rear passenger compartment.

Additional air vents

Below the windscreen (defroster vents) and in the front footwells.





Heated rear window. heated exterior mirrors*

Operational only in starter switch positions ACC or ON.

Press	button 💷	=	On

Press button I again = Off

Control indicator in button.

Turn off as soon as vision is clear. Rear window and exterior mirror heating is switched off automatically after approx. 15 minutes.

To avoid discharging the battery, do not operate when you are just starting the vehicle, or if there is a build up of snow or ice. Operate only with the engine running.

Do not use sharp instruments or abrasive cleaners on rear window or exterior mirrors. and avoid scratching or damaging their heating elements.

Heated front seats *

Operational only in starter switch positions ACC or ON.

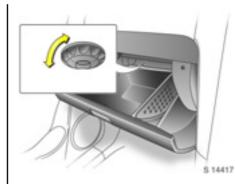
Press switch ₩ on respective side one or more times to set the desired heat output. Control indicator in switch indicates which of the three heating levels is active.

To switch heating off, set heat output to the lowest level and press the switch again. The control indicator will extinguish.

Prolonged use could cause damage to delicate and thin clothing and burn seat oc cup ants.

Avoid subjecting seats to heavy impacts, as this may cause damage to the heating element

If temperature continues to rise, turn seat heating off and consult a workshop.



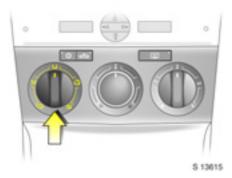
Glove compartment cooling *

Cooled air is fed into the glove compartment through an air opening, when the air conditioning is turned on.

Rotate adjustment wheel anticlockwise to allow the air conditioning to keep the contents of the glove compartment cool.

Rotate adjustment wheel clockwise to close air opening when glove compartment cooling is not required.

General notes and notes on air intake. pollen filter and maintenance see page 110.





Heating and ventilation system Left-hand rotary knob: Air distribution

- ★ To head area via adjustable air vents
- ★ To head areavia adjustable air vents and to footwell
- ₩ To footwell
- To windscreen, front door windows and footwell
- To windscreen, front door windows and head area via adjustable air vents

Central rotary knob: Temperature

To red = Warm To blue = Cold



Right-hand rotary knob: Airflow Four fan speeds:

% = Off

4 = Maximum airflow

The rate of airflow is determined by the fan. The fan should therefore be switched on during driving.



S 13618

Ventilation

- Turn air recirculation mode 🖘 off.
- For maximum ventilation to head area: set air distribution rotary knob to *⊅*.
- For ventilation to footwell: set air distribution rotary knob to **↓**.
- For simultaneous ventilation to head area and footwell: set air distribution rotary knob to ☆.
- Turn temperature rotary knob to blue area for cooling.
- Set fan to desired speed.
- Open adjustable centre and side air vents.

Hea ting

The amount of heat is dependent on the engine temperature and is thus not fully attained until the engine is warm.

For rapid warming of the passenger's compartment:

- Activate air recirculation mode 🖘.
- Set the air distribution rotary knob to ↓ or ↓.
- Turn temperature rotary knob to red area for warm air.
- Set fan to 4.
- Open adjustable side air vents.

Do not use this setting for extended periods, as gradual deterioration in air quality and an increase in humidity may cause windows to mist up. To obtain a temperature for a "cool head and warm feet" effect:

- Turn air recirculation mode 🖘 off.
- Set the air distribution rotary knob to 🏞.
- Turn temperature rotary knob to the middle.
- Set fan to desired speed.
- Open adjustable centre and side air vents.

The comfort and general wellbeing of vehicle occupants are to a large extent dependent on a suitable ventilation and heating setting.





Heating the foot well

- Set air distribution rotary knob to ₩.
- Turn temperature rotary knob to red area for warm air.
- Switch on fan.

∆Warning

Failure to follow these instructions could lead to misted or icy windows and accidents stemming from impaired visibility.

To clear misted or icy windows, e.g. due to damp weather, damp clothing or low outside temperatures:

- \blacksquare Set air distribution rotary knob to \Im .
- Turn temperature rotary knob to red are a for warm air.

■ Set fan to 4.

- Close centre air vents.
- Open adjustable side air vents and direct them towards door windows.
- Switch on heated rear window .

For simultaneous warming of the footwell, set air distribution rotary knob to \mathbf{J} .

Air conditioning ♯ and air recirculation ☞ are turned on automatically to improve defrosting efficiency when position ♬ or ♬ is selected.

To prevent windows from misting up, do not set air distribution rotary knob to position **F** or **F** in extremely humid weather when temperature rotary knob is set to blue area for cooling.



S 13621

Air recirculation mode

During 'normal' operation, the heating, ventilation and air conditioning system uses outside air. To prevent fumes or unpleasant odours from entering the vehicle when in stationary traffic and when rapid heating or cooling of the passenger compartment is required, press button $\langle S \rangle$; control indicator in the button illuminates and air is recirculated. Air recirculation mode should only be used for brief periods, due to gradual deterioration in air quality and an increase in humidity, causing windows to mist up. Driving with air recirculation mode on for extended periods may cause vehicle occupants to feel drowsy.

Press button Se again to turn air recirculation mode off; control indicator in the button extinguishes and outside air is drawn into the vehicle.



S 13613

Air conditioning system

As a supplement to the heating and ventilation system, the air conditioning system cools and dehumidifies (dries) inflowing air and removes dust and pollen, to provide maximum comfort under any weather conditions.

If cooling or dehum idification is not required, switch off cooling in order to save fuel.

106 Climate control



\$ 13622

Cooling

Operational only with engine running and with the fan switched on:

- Press button 🌣 🛛 =
- Press button 🌣 again = Off

ugain = On

On

Control indicator in the button illuminates when air conditioning is enabled and extinguishes when the system is switched off.

Cooling switches off automatically at low outside temperatures.

Engine power and performance may be affected when the system is on.

If the fan is switched off, the air conditioning system will not operate.

Once activated, the air conditioning system is operated via the normal heating and ventilation controls.

Even with air conditioning on, if temperature rotary knob is set to warm, the vehicle will still produce warm air in the passenger compartment.

To improve efficiency of the air conditioning, always close the windows, to prevent chilled air from escaping.

Switching on the air conditioning will assist in wind screen demisting. In very hot temperatures, before starting the engine, allow hot air to escape from the vehicle by opening the windows and sunroof *****.

When the air conditioning system is switched on, at least one of the adjustable centre or side air vents must be open, so that the evaporator does not ice up due to lack of air movement.

Driving in stop-and-go traffic may reduce the effectiveness of the air conditioning system.

Using the air conditioning system when driving up long hills or in heavy traffic can cause engine overheating. If engine coolant temperature warning control indica tor \pounds illumina tes in instrument cluster, turn off air conditioning and allow engine to id le for a few minutes (see page 67).



\$ 13623

Normal cooling

- Press button (to switch on air conditioning system).
- Turn air recirculation mode 🖘 off.
- Set air distribution rotary knob to position ≠ or ₩.
- Turn temperature rotary knob to blue area for cooling.
- Set fan to desired speed.
- Open air vents as required.



S 13624

Maximum cooling

Open windows and sunroof * briefly so that warm air can escape rapidly.

■ Press button 🌣

(to switch on air conditioning system).

- Activate air recirculation mode 🖘.
- Set air distribution rotary knob to *≭i*.
- Turn temperature rotary knob all the way to blue area for cooling.
- Set fan to 4.
- Open all air vents.

Electronic Climate Control (ECC) *

Provides the greatest amount of comfort in the vehicle interior, regardless of the weather, outside temperature or season.

To ensure a constant and comfortable climate in the vehicle, the temperature of the inflowing air, the a ifflowrate, air distribution mode, air recirculation mode and air conditioning are automatically adapted based on the climate conditions outside the vehicle and the current temperature of the vehicle interior. Temperature changes due to external influences, such as direct sunlight, are automatic ally compensated.



8 14531

When cooling (air conditioning compressor) is active, air is cooled and dehum idified.

The pollen filter removes dust, soot, pollen and spores from the inflowing outside air.



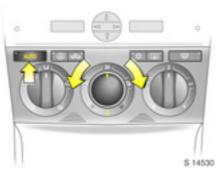
Automatic air recirculation

The automatic air recirculation system has an air quality sensor to detect hamful ambient gases, in which case it will switch automatically to air recirculation mode.

Press a utomatic air recirculation button (2); the system provides the optimum settings for almost all conditions. Control indicator in the button illuminates when automatic air recirculation is enabled.

Press button (2) a gain to turn automatic air recirculation system off, control indicator in the button extinguishes and outside air is drawn into the vehicle.

The system is only operational when the engine is running.



Automatic mode Basic setting for maximum comfort:

- Press AUTO button.
- Open all air vents.
- Set temperature using central rotary knob.

All air vents are actuated automatically in automatic mode. The air vents should therefore always be open - see page 100.

The control indicator in the **AUTO** button illuminates when automatic mode has been selected.

To switch the system off, set fan to **%**.

Temperature preset

The central rotary knob can be used to set the temperature; 22 °C, 24 °C and 26 °C appear on the rotary knob. Intermediate settings are possible.

The selected temperature is maintained.

At the lowest or highest temperature setting, the system works at maximum cooling or heating.



8 14565

Manual settings

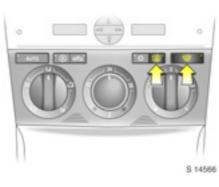
Under certain circumstances (e.g. iced or misted windows), the functions of the system can be modified manually.

System settings can be changed by pressing button \$\$ (control indicator in button will illuminate) or by adjusting the fan or air distribution rotary knob.

Automatic regulation of temperature, airflow rate, air distribution mode, air recirculation mode and air conditioning is disabled.

To return to automatic mode: press **AUTO** button.

Air distribution mode - see page 102, airflow rate - see page 102, air recirculation mode - see page 105, air conditioning system - see page 105.



Window demisting and defrosting

∆Warning

Failure to follow these instructions could lead to misted or icy windows and accidents stemming from impaired visibility.

To clear misted or icy windows, e.g. due to damp weather, damp clothing or low outside temperatures:

- Press button ∰, to clear the wind screen.
- \blacksquare Switch on heated rear window \blacksquare .
- Set fan to desired speed.

Air recirculation mode 🖘 is automatically switched off. Air conditioning 🌣 switches on.

To switch off wind ow demisting and defrosting, press button 🐨 again, press **AUTO** button, adjust fan speed or air distribution rotary knob.



\$ 13573

Air intake

The air intakes in front of the windscreen in the engine compartment must be kept clear to allow air intake. Remove any leaves, dirt or snow.

Pollen filter

The pollen filter cleans dust, soot, pollen and spores from the air entering from outside. The active carbon layer ***** eliminates most odours and harmful ambient gases from the air.

Replace the pollen filter at the intervals given in the chapter "Service, Maintenance" on page 202.

Note

If the windscreen mists up in damp weather, temporarily set the system as described under "Window demisting and defrosting" - see pages 104, 109.

Cooling is most efficient when the windows are closed. If the interior is extremely hot due to a long period in strong sunlight, briefly open the windows and sunroof ***** to allow hot air to escape quickly.

When cooling (air conditioning compressor) is switched on, condensation forms, which is expelled from the underside of the vehicle.

When cooling is switched on, at least one of the adjustable centre or side air vents must be open so that the evaporator does not ice up due to lack of air movement.

Cooling switches off automatically at low outside temperatures.

Do not cover the interior temperature sensor (located below the fan switch) or the sunlight sensor (located in front of wind screen defroster vents) as this could cause the Electronic Climate Control (ECC) system ***** to malfunction.

Maintenance

To ensure continuously efficient performance and prolong the life of the air conditioning system, it must be switched on for a few minutes once a week, irrespective of the weather and time of year.

Electronic Climate Control (ECC) * handles this automatically while driving. Air conditioning compressor operation is not possible at low outside temperatures.

Malfunctions in the system must not be rectified by the owner: consult a workshop.

Automatic transmission 🛠	111
All Wheel Drive	117
Driving hints	123
Save fuel, protect the environment	125
Fuels, refuelling	127
Catalytic converter, exhaust emissions	129
Drive control systems	132
Brake system	141
Anti-bck Brake System (ABS) 🕮	144
Whee's, tyres	145
Roof racks 🛠	149
Flex-Fix system *	150
Towing equipment %	160
Towing	163

Automatic transmission *

The automatic transmission permits manual gearshifting (**Manual mode**) or automatic gearshifting (**Automatic mode**) with fully automatic clutch control.

The engine can only be started when the selector lever is in position **P** or **N**. When starting in **P**, turn key in starter switch to ACC or ON, depress footbrake and press selector lever button before selecting a gear.

Do not a ccelerate w hilst gearshifting. If a gear has been selected and the footbrake is released without a ccelerating, the vehicle will "creep".

Never operate the brake pedal and accelerator simultaneously.

∆Warning

Disregard of these instructions may cause damage to the vehicle and lead to injuries or endanger life.

Selecting **D** puts the transmission in Automatic mode.

If the selector lever is moved to the left from position **D**, Manual mode is activated. Forward gear changes only can then be made manually by moving the selector lever towards + or -.



Transmission display

Display of mode or current gear.

Р	Park position.
R	Reverse gear.
N	Neutral.

- D Automatic mode.
- 1 to 5 Selected gear in Manual mode.



Selector lever settings, P, R, N and D (Automatic mode)

- P Park position. Front wheels locked. Only engage when the vehicle is stationary and the handbrake is applied. "P" appears on the transmission display.
- **R** Reverse gear. Only engage when the vehicle is stationary. "R" appears on the transmission display.
- N Neutral or idle. "N" appears on the transmission display.
- D Drive position for normal driving in 1st gear to 5th gear. "D" appears on the transmission display.

Selector lever can only be moved out of **P** or **N** with the ignition switched on and the footbrake depressed (selector lever lock).

To engage ${\bf P}$ or ${\bf R},$ press selector lever button.

Never shift to ${\bf P}$ or ${\bf R}\,$ while the vehicle is moving.

The engine can only be started when the selector lever is in position ${\bf P}$ or ${\bf N}$. Depress footbrake or apply handbrake before starting.

Do not accelerate during the selection procedure.



\$ 16730

Manual mode

Move selector lever out of position D (to the left) into manual gate, then forwards or backwards.

- Shift to a higher gear.
- Shift to a lower gear.

Tip selector lever in the appropriate direction. It then returns to centre position.

Gearshifting in Manual mode can be achieved whilst accelerating.

If the engine speed is too low, the transmission will automatically shift to a lower gear, even in Manual mode. This prevents the engine from stalling.

After stopping, 1st gear is automatically selected

No automatic shifting to a higher gear takes place at high engine speeds.

When up shifting in Manual mode, take heed of prevailing road conditions. keeping engine speed below the red zone.

Downshifts must be made in accordance with vehicle speed.

Gears can be skipped by moving the selector lever repeatedly at short intervals.

When starting on slippery surfaces, move selector lever forwards to engage 2nd gear.

The selected gear is displayed in the transmission display.

For safety reasons, kickdown is also available in Manual mode - see page 114.

To move back to **D**, push selector lever back to the right.



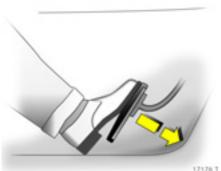
Winter programme

In the event of difficulties starting -off on icy and slippery surfaces, press button \mathfrak{P} : control indicator WINTER is illuminated in the instrument cluster and the vehicle sets off in 3rd gear, to reduce slipping and loss of traction.

Winter programme is switched off by:

- pressing button \$\$ again (control indicator WINTER will extinguish in instrument cluster),
- turning off the ignition.

If the vehicle is switched to Manual mode while Winter programme is active, the Winter programme is switched off.



Kickd own

Depress accelerator pedal past the pressure point and hold in position; below certain speeds, the transmission shifts down into a lower gear. Full engine power is available for acceleration.

When the desired speed is reached, ease off the accelerator; the transmission shifts up into a higher gear.

For safety reasons, kick down is a vailable in both automatic and Manual mode.

Engine braking assistance

Automatic mode

The automatic transmission automatically selects the driving programmes with the best possible braking effect.

If necessary, lower aears can also be selected in Manual mode to increase the braking effect. 1st gear has the greatest braking effect.

Manual mode

In order to utilize the engine braking effect when driving downhill, select drive range 3, 2 or, if necessary, 1 in good time.

The braking action is most effective in drive range 1. If drive range 1 is selected at too high a speed, the transmission remains in the current gear until the shift point for drive range 1 is reached, e.g. as a result of deceleration.

Use of the engine braking effect, as opposed to the use of the footbrake when driving downhill, can extend the life of the brakes

Stopping the vehicle

The selector lever can be left in the current drive range when the engine is running.

In Automatic mode or Manual mode, once the vehicle is stationary, first gear engages automatically and the clutch opens.

In position **R**, reverse remains engaged.

When stopping on gradients, engage handbrake or depress brake pedal. Do not hold the vehicle in place with the accelerator.

Switch off engine if stopping for a lengthy period, e.g. in traffic jams.

Parking

Before leaving the vehicle:

- Depress and hold footbrake,
- Apply handbrake,
- Move selector lever to position **P**,
- Turn key to LOCK position,
- Remove ignition key,
- Engage steering column lock,
- Lock the vehicle.

When the ignition is switched off, the automatic transmission no longer responds to movements of the selector lever.

Rocking the vehicle

If it becomes necessary to rock the vehicle to free it from water, ice, sand, mud, snow or a dip, observe the following:

Check there are no objects or people in the vicinity before attempting to rock the vehicle.

Turn the steering wheel fully from left to right to clear the area around the front tyres.

Move the selector lever between **R** and a forward gear in a repeat pattern while applying light pressure to the accelerator pedal when the vehicle is in gear.

Do not spin the wheels or race the engine and avoid sudden acceleration.

This applies only in the exceptional circumstances mentioned above.

If the vehicle cannot be released after rocking the vehicle several times, your vehicle may need to be towed.

Towing - see page 170.



Manoeuvring the vehicle

To manoeuv re the vehicle back and forth during attempts to park or in garage entrances, the creeping movement can be utilized by releasing the footbrake.

Never actuate the accelerator and brake pedals simultaneously.



Fault Ĉ

If a fault occurs in the automatic transmission, control indicator 🖾 will illuminate in the instrument cluster.

Automatic shifting may be much harsher than normal or, in the case of a serious fault, cancelled a together.

Consult a workshop as soon as possible to have the cause of the fault eliminated.



Interruption of power supply

The clutch is not disengaged if the vehicle battery is discharged and a gear has been selected. The vehicle cannot move.

If the battery is flat, the selector lever cannot be moved out of position ${\bf P}$ or ${\bf N}$.

Start the vehicle using jump leads - see page 168.

If the cause of the interruption to the power supply is not a discharged battery, release selector lever:

- 1. Tum off ignition and remove key.
- 2. Depress and hold footbrake.
- 3. Remove cap on console with a suitable screwdriver.
- 4. Insert ignition key and press gently into shift lock release slot.
- 5. Shift to neutral (N).
- 6. Remove key from shift lock release slot.
- 7. Start engine and shift to chosen gear.
- 8. Reinstall cap on console.

Have cause of power supply interruption remedied immediately. Consult a workshop.

All Wheel Drive

All Wheel Drive (AWD) is an active-ondemand system that engages automatically, with no action required by the driver. Depending on the driving environment, the vehicle switches between two-wheel drive and four-wheel drive, to give the vehicle more traction and stability when necessary.

If the front wheels begin to slip, the rear wheels will automatically begin to drive the vehicle as required.

More torque is transferred to the wheels that have the most traction, so the vehicle has optimum grip at all times.

There may be a slight engagement noise during hard use.

As well as enabling the vehicle to be driven off-road, this system also enables the vehicle to be driven on normal roads without incurring excessive tyre and drivetrain wear or causing poor control.



All Wheel Drive control indicator

When the ignition is switched on, control indicator 37 illuminates for approx. 4 seconds. The system is ready for operation when the control indicator extinguishes.

If the control indicator flashes during driving, All Wheel Drive is temporarily disabled.

If it flashes briefly then extinguishes, this is normal and does not indicate a fault.

If the control indicator flashes continuously, there is a fault in the system. Consult a workshop as soon as possible.

On-road driving

The increased traction of All Wheel Drive vehicles offers greater driving control in adverse road conditions, particularly heavy snow and ice. However, All Wheel Drive vehicles are not "skid-proof" and do not decrease stopping distances.

All Wheel Drive vehicles have a higher centre of gravity than conventional vehicles. Always a pproach curves at an appropriate driving speed. Do not attempt to go as fast through turns as you might in a conventional vehicle.

Strong crosswinds can affect the normal steering of the vehicle. Drive slower under strong crosswind conditions.

Always exercise caution when in slippery conditions (caused by sand, gravel, water, snow or ice on the road), in order to maintain vehicle control.

Use the accelerator to control the vehicle - keep brake pedal use to a minimum.

- Do not slip the clutch.
- Do not spin the wheels.
- Do not make exaggerated or jerky steering movements.

Driving a vehicle in snow and ice should be undertaken with extreme caution:

- Select a gear suitable for the conditions.
- Start the vehicle moving with minimal engine revs, low gear and com bined clutch and accelerator control.
- Change to a higher gear as quickly as possible, to keep the engine revs low.
- With automatic transmission *, select drive range **D** and press button *, to activate the Winter programme.

Off-road driving

During off-road driving, you will encounter a variety of driving conditions and circum stances too numerous to list here.

Always use good judgement and common sense. If you feel uncomfortable about tackling a given situation, do not attempt it.

Avoid protruding objects (such as rocks or tree stumps) that may damage the underbody and tyres of your vehicle.

Test the brakes after operating in mud, to clear excess mud from the braking surfaces.

Gripping the steering wheel

Terrain conditions can cause rapid and unexpected movement in the steering, especially rough terrain.

∆Warning

Be ready to deal with these movements by having a firm grip on the outer rim of the steering wheel with the thumbs outside the spokes, to guard against injury from kickback.

Preparation

The duration, distance and conditions of the off-road activity determine the extent of the preparation that is required. The following are given as guidelines.

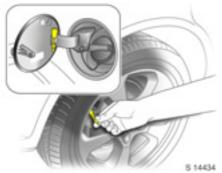
Know the area where you will be driving, either by inspection or from terrain maps. Decide your route in advance and ensure that it is a vehicular right of way¹⁾.

Make a thorough check of the vehicle.

Check the following:

- Oil, water, fuel, brake and clutch fluid levels,
- Drive belts,
- Windscreen wiper and wash system,
- Lights.

Maintenance - see pages 122, 202.



Ensure that tyres (including the spare) are inflated to the correct pressure and are suitable for the prevailing off-road conditions.

Tyre pressures - see page 217.

Check the jack and wheel changing tools, and include a board or plate for supporting the jack on soft ground.

Carry emergency equipment, i.e. tow rope, spade, first aid kit etc., which may be desirable if you intend entering unfamiliar off-road terrain.

A tow rope should be carried, to allow the recovery vehicle to be placed clear of any adverse ground.

Your Vauxhall Authorised Repairer will assist you in assessing any special requirements.



Secure all loose items and luggage that may cause injury if thrown around the passenger compartment in bumpy conditions. Avoid carrying heavy loads on the roof. Make sure all doors, the tailaate and the bonnet are firmly closed.

Securing items using lashing eyes see page 57.

The ground clearance, ramp angle, angle of approach and departure and wading depth need to be considered, especially in hilly conditions and when wading, to prevent the vehicle becoming stuck and possibly damaged.

Technical data - see page 208.

Driving through water

Do not exceed the maximum wading depth.

Check the depth of water: choose the low est entry and departure angles before entering.

Maintain a steady engine speed, to help prevent water from entering the exhaust system, but do not exceed 3 mph (5 km/h), to avoid splashing the water.

Drive with the flow wherever possible, not against it. If you have to drive against the flow, try to drive at an angle to it, so that the leading corner of the vehicle will help deflect water from the engine compartment.

Avoid splashing the water - if the ignition system becomes wet, the engine may stall.

Avoid water entering the air intake system.

∆Warning

If water enters the air intake system, engine seizure with severe costly damage may result.

Test the brakes after leaving the water wet brakes are less effective than dry ones.

Perform the Service operations for wading, involving checks for water contamination, at the earliest opportunity.

Service checks after wading - see page 122.

Self-help

Recovery and towing

When recovering or towing a vehicle off-road, observe the following:

- A greater force is required to move a vehicle from or through mud than when on a hard surfaced road.
- Attach a tow rope to the towing eye of the vehicle, not to the axle see pages 160, 170.
- Where possible, drive both vehicles forward to affect a recovery, using an appropriate gear to avoid wheelspin.
- Avoid the use of reverse gear because of possible resultant wheelspin.
- Stay clear of the tow rope.

∕∆Warning

Breaking ropes can cause serious injury.

Wheel changing

Place a board or plate beneath the jack, to prevent it from sinking into soft ground.

Further information - see page 174.

<u>Cleaning</u>

Clean the vehicle thoroughly and as soon as possible after driving off-road.

Do not let mud remain dry on any part of the vehicle as it becomes abrasive and can damage paint, glass, sea b, bearings and brake components.

If left to build up, mud can seriously affect the airflow through and over mechanical components and cause localised overheating and failure of parts, especially in the engine compartment.

Ensure the radia tor core and the area between the radiator and intercooler / oil cooler (where installed) is cleaned, to maintain proper cooling airflow.

Check the radiator and cooler cores for blockage (sand, silt etc.).

Check the tyre treads.

Clean and check the mechanical parts of the vehicle, particularly the following areas:

- Driveshafts, including sealing bellows,
- Front brake calipers, pads and discs,
- Front suspension,
- Clutch fork sealing bellows,
- Rear brake calipers, pads and discs,
- Rear suspension,
- Fuel tank and underguard,
- Breathers, a xles and fuel tank,
- Load sensing valve,
- Transfer box and underguard,
- Engine oil pan and underguard.

Observe the following:

- Do not spray high-pressure water directly at the vehicle seals.
- The wheels must be removed to clean all mud and stones from the brake calipers and to check brake pad wear.
- The areas on the upper side of the underguards must be cleared of stones, to prevent dam age to the engine oil pan and the fuel tank.

Maint en anc e

Certain maintenance operations, e.g. changes of engine oil, oil filter, air cleaner element and brake pads, are required more frequently for severe operating conditions, e.g. driving on unsurfaced roads, during thick dust or mud accumulation, etc.

If the vehicle is driven off-road to a great extent, the chassis will need regular inspection.

Your Vauxhall Authorised Repairer will inform you which additional Service is required between the normal Service intervals, after consideration of the specific operating conditions of your vehicle.

Further information - see page 202.

Service checks after wading

After wading, check for the ingress of water into the following:

- Brake fluid reservoir,
- Air cleaner element,
- Engine,
- Transmission,
- Axles,
- Interior of vehicle.

Renew any lubricating oil or hydraulic fluid that has a milky appearance, indicating contamination with water.

All Wheel Drive summary

Do

- Check fuel and tyres, water and oil levels before venturing off-road.
- Survey on foot before driving off-road, especially when traversing hillsides, wading, driving in deep snow and over ridges.
- Select the correct gear for the conditions.
- Use the engine's power of acceleration and deceleration with the correct gear, to control the vehicle.
- Keep a firm grip on the outer rim of the steering wheel - keep your thumbs away from the spokes.
- Drive carefully and be prepared for emergencies.
- Drive slower under crosswind conditions.
- Approach obstacles and conditions off-road at the correct angles and with sufficient momentum to negotiate the obstacle, but do not put undue strain on the vehicle.
- Use caution if you are not sure, do not do it.

<u>Don't</u>

- Do not venture off-road unless you are certain that the conditions are capable of being negotiated safely by you and your vehicle.
- Do not take unnecessary risks.
- Do not use the brakes excessively, to maintain steering control.
- Do not change gear on difficult terrain depressing the clutch may cause the vehicle to stop because of drag on the wheels - or accelerate backwards or forwards when on a hill.
- Do not ride or slip the clutch.
- Do not spin the wheels if stuck in mud, sand or snow - they will only dig in deeper.
- Do not drive at an excessive speed, especially into corners. Your All Wheel Drive vehicle has a higher centre of gravity than conventional vehicles. Sudden changes of direction can lead to loss of control.

Driving hints

The first 600 miles (1000 km)

Drive your vehicle at various speeds. Do not use full throttle. Never allow the engine to labour at low revs.

Make good use of all gears. Depress the accelerator pedal a maximum of around three quarters of the available pedal travel in all gears and drive ranges.

Do not drive faster than three quarters of maximum speed.

Avoid quick starts, sudden a cceleration and prolonged high-speed driving, to avoid engine damage and to conserve fuel.

Do not brake unnecessarily hard for the first 125 miles (200 km).

If possible, avoid towing another vehicle.

Never coast with engine not running

Many units may then not function (e.g. brake servo unit, power steering, airbag system). Driving in this manner is a danger to yourself and others.

Brake servo unit

With the engine not running, the brake servo unit is no longer effective once the brake pedal has been depressed once or twice. The braking effect is not reduced, but substantially greater foot pressure is necessary to stop the vehicle.

Power steering

Never leave the steering wheel on full lock when the vehicle is stationary, as this may damage the power steering pump.

If the power steering should fail - e.g. when the vehicle is being towed with the engine switched off - the vehicle can still be properly steered, but considerably greater effort is necessary.

Driving in mountainous terrain or with a caravan / trailer

Electrically driven fan; the fan cooling capacity is not dependent on engine speed. It is not necessary, therefore, when driving uphill to shift down into a lower gear if the vehicle can climb in a higher gear.

Driving in extreme conditions

When driving in hazardous conditions, e.g. in snow, ice, mud, sand or water, drive slowly and cautiously to allow for greater braking distances.

If stuck, use 2nd gear (automatic transmission in drive range **2**) to avoid spinning the front wheels.

Use sand, tyre chains or other non-slip materials to provide traction when stuck in snow, mud or ice.

Driving through water

Before attempting to drive through water, check the depth. If the depth is slightly lower than the underbody of your vehicle, do not attempt to drive through it.

Driving too quickly through water can cause water to enter the engine through the air intake, causing severe damage. Drive slowly, in a high engine rpm in as low a gear as possible.

Driving with a roof load

Do not exceed the permissible roof load see page 214. For safety reasons, distribute the load evenly and secure it tightly with straps so that it cannot slip. Set the tyre pressure to the value given for full load. Do not drive faster than 75 mph (120 km/h). Check and retighten straps at frequent intervals.

Switching off the engine

If the engine temperature is very high, e.g. after driving in mountainous terrain: allow engine to idle for a pprox. 2 minutes, in order to prevent heat accumulation.

When you switch off, fans in the engine compartment may continue running for a time, to cool the engine.

Vehicles with turb ocharger 🛠

In order to protect the turbocharger, after running at high engine speeds or high engine loads, operate the engine briefly at a low load or run in neutral for approx. 30 seconds before switching off.

Save energy – more miles / kilometres Please observe the running-in hints on the previous page and the tips for energy saving on the following pages.

Good, technically correct and economical driving ensures maximum durability and performance for your vehicle.

Overrun

The fuel supply is automatically shut off during overrun, e.g. when the vehicle is being driven down long gradients or during braking. To enable the overrun cut-off to come into action, do not accelerate or declutch during overrun.

Engine rpm

Under all driving conditions, drive in a favourable engine speed range.

Warming up

Allow engine to warm up while driving. Do not warm it up by letting it run at id ling speed. Do not apply full throttle until engine reaches operating temperature.

After a cold start, a utomatic transmission ***** does not shift into higher gears until higher engine speeds have been reached. This allows the catalytic converter to quickly reach the temperature required for optimum pollutant reduction.

Correct gear selection

Do not race your engine whilst in neutral or with a low gear selected. Driving too fast in individual gears or drive ranges as well as stop-and-go traffic increase engine wear and fuel consumption.

Change down

When decreasing speed, shift down into the next lowest gear. Do not slip the clutch with a high-revving engine. This is especially important when hill climbing.

Clutch operation *

Always depress the clutch pedal hard to the floor, to prevent shifting difficulties and transmission damage. There must be no mats in the area of the pedals.

When driving, do not use the clutch pedal as a footrest; this will cause substantial clutch wear.

Pedals

Do not place any objects in the footwell which could slip under the pedals and inhibit the pedal travel.

To ensure the pedal travel is uninhibited, there must be no mats in the area of the pedals.

When driving, do not use the brake pedal as a footrest; this will cause substantial wear to brake components and cause overheating, resulting in longer braking distances.

Battery care whilst driving

When driving slowly or when the vehicle is stationary, e.g. in slow urban traffic, stop-and-go traffic or traffic jams, turn off all unnecessary electrical loads where possible (e.g. heated rear window, auxiliary headlights).

When starting the engine, depress the clutch pedal so that transmission resistance is eliminated and the starter motor and battery are relieved.

Save fuel, protect the environment

Trend-set ting technology

When developing and manufacturing your vehicle, Vauxhall used environmentfriendly and, in the main, recyclable materials. The production methods used to make your vehicle are likewise environmentally-compatible.

Recycling of production wastes keeps the circulation of material closed. Reduction of energy and water requirements also helps to conserve natural resources.

A highly advanced design means that your vehicle can be easily disassembled at the end of its working life, and the individual materials separated for subsequent re-use.

Materials such as asbestos and cadmium are not used. The refrigerant in the air conditioning system is CFC-free.

New painting techniques employ water as a solvent.

End-of-life vehicle recovery

For detailed information on Vauxhall's on-going commitment to achieving an environmentally sustainable future, including; design for recycling, take back of End-of-Life Vehicle's (ELVs) and the recycling of ELVs, view www.vauxhall.co.uk/recycling for details.

Drive in an energy and environment-conscious way

- High fuel consumption, noise levels and exhaust emissions are often caused by a driving style that is not energy and environment-conscious.
- You should the refore drive with energy in mind: "more miles / kilometres with less fuel".
- Reduce the noise level and exhaust emissions by adopting an environmentconscious driving style. This is extremely worthwhile and improves quality of life.

Fuel consumption depends to a great extent on your own personal driving style. The following hints are intended to help you consume fuel at a rate that is as close as possible to the specified levels.

Check your vehicle's fuel consumption every time you refuel. This facilitates early detection of a ny irregularities causing increased fuel consumption.

Warming up

- Full throttle and warming up at idle speed increase wear, fuel consumption, fuel emission, the amount of pollutant in the exhaust and the amount of noise.
- Drive off immediately after starting. Warm up the engine by running it at moderate engine speeds.

Uniform speed

- Hectic driving significantly increases fuel consumption, the quantity of emission and the proportion of pollutant in the exhaust.
- Do not accelerate and brake unnecessarily. Drive at uniform speed.

Avoid frequent starting-off and stopping, e.g. at traffic lights, in short distance traffic and in queues of traffic, by means of clever planning. Select roads with good traffic flow.

Idling

- The engine also consumes fuel when idling.
- If you have to wait for more than 1 minute, it is worthwhile switching off the engine. Five minutes of idling corresponds to ap prox. 0.6 miles (1 km) of driving.
- Idling for more than 5 minutes can cause excessive temperatures and damage to the exhaust system.

Overrun

- The fuel supply is automatically shut off during overrun, e.g. when the vehicle is being driven down long gradients or during braking - see page 124.
- To enable the overrun cut-off to take effect and save fuel, do not accelerate or declutch.

Correct gear selection

- High revs increase engine wear and fuel consumption.
- Do notrace your engine. Avoid driving at high engine speeds.

Driving with an eye on the tachometer saves fuel. If possible, drive at low revs in each gear and at a constant speed. Drive in top gear as much as possible, shift up as soon as possible and do not shift down prematurely.

High speed

- The faster the speed, the higher the fuel consumption and noise level. Driving at full throttle uses up a great deal of fuel and generates excessive noise and high emission levels.
- Slightly releasing the accelerator pedal results in distinct fuel savings with no major loss of speed.

Drive at no more than around three quarters of maximum speed and you will use up to 50% less fuel, without losing a great deal of time.

Tyre pressure

- Inadequate tyre pressure, leading to higher road resistance, costs money in two ways; for more fuel and increased tyre wear.
- Regular checks (every 14 days) pay off.

Electrical loads

- The power consumption of electrical equipment increases fuel consumption.
- Switch off all additional consumers (e.g. air conditioning, heated rear window) when they are no longer required.

Roof racks 🛠

- Roof racks can increase fuel consumption by approx.
 3.5 gal./1000 miles (1 l/100 km) due to air resistance.
- Remove them if they are not being used.

Repair and maintenance

Improper repairs or adjustment and maintenance work can increase fuel consumption. Do not carry out work on the engine yourself.

You may, out of ignorance, infringe environmental laws by not disposing of materials properly.

Appropriate parts might not be recycled.

Contact with some of the materials involved may pose a health hazard.

We recommend that repairs and maintenance be entrusted to a Vauxhall Authorised Repairer.

Extremedriving conditions

Driving up steep gradients, cornering, driving on poor roads, and winter driving all increase fuel consumption.

Fuel consumption increases dramatically in urban traffic and at winter temperatures, especially on short trips when the engine operating temperature is not reached.

■ Follow the hints given above to keep fuel consumption to a minimum under such conditions.

Fuels, refuelling

Fuel consumption

Optional equipment (e.g. wide tyres, towing equipment) increases the kerbweight and, in some cases, also the permissible Gross Vehicle Weight.

This in turn increases fuel consumption and reduces the maximum speed of the vehicle.

When the vehicle is new, there is increased friction between the engine and transmission components lasting for several thousand miles / kilometres. This also increases fuel consumption.

Fuel for petrol engines

Commercially available high-quality fuels are suitable (see page 210). Fuel quality has a decisive influence on the power output, driveability and life of the engine. The additives contained in the fuel play an important role in this regard. You should therefore use only high-quality fuels containing additives.

Petrol with too low an octane number can cause pinking. Vauxhall cannot be held lia ble for resulting dama ge.

Petrol with a higher octane number can always be used.

A dispensing pump for leaded fuel cannot be inserted in the fuel tank of a vehicle that must be operated on unleaded fuel only.

Use of petrol with an octane rating of 95 will ensure economical driving

Fuel for diesel engines

Diesel engines must be operated only on commercially available diesel fuel meeting the specifications of DIN EN 590.

Since January 2004, some oil companies have mixed their diesel fuel with up to 5% Bio fuel (FAME = Fatty Acid Methyl Esters) like RME (Rape-Oil Methyl Ester). This is in accordance with the current DIN EN 590 and does not harm the fuel / injection system. The characteristics of a diesel fuel mixed up with 5% Bio fuel (FAME) do not differ from conventional diesel fuel and do not influence the vehicle's driveability.

Important: Diesel fuel mixed with 5% FAME according to DIN EN 590 must not be confused with 100% Bio Diesel, which is not to be used in Vauxhall engines.

The flow and filterability of diesel fuel are temperature-dependent.

Dieselfuels with improved low temperature properties are therefore a vailable on the market during the winter months. Make sure that you fill the tank with winter fuel before the start of the cold weather season.

Additives can be used with diesel fuels with winter properties that are guaranteed by the manufacturer and when using diesel fuel filters that are heated depending on the outside temperature.

Diesel fuels must not be diluted with fuels that are intended for petrol engines.

Fuel filler cap

If replacing the fuel filler cap, be sure to use the original fuel filler cap for your model, to ensure full functionality.

Refuelling

∆Warning

Care must be taken when dealing with fuel.

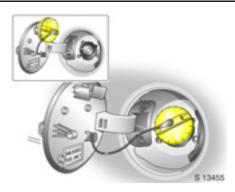
Before refuelling, it is absolutely vital to switch off the engine and any heating systems with combustion chambers.

Switch off mobile phones.

Fuel is inflamma ble and explosive, therefore a void dealing with fuel near naked flames and doing a nything that would generate sparks. No smoking!

This also applies where the smell of fuel is noticeable. If the smell of fuel vap our occ urs in the vehicle itself, have the cause remedied immediately by a workshop.

Ensure suitable fuel is available before driving in foreign countries.



The fuel filler neck with bayonet cap is located on the left rear side of the vehicle.

The tank flap is locked together with the doors - see page 21.

Unlock doors, tailgate and tank flap by pressing button \geq on the remote control or by pressing central locking switch \bigoplus in the driver's door.

Open the tank flap by hand.

If, in cold weather, the tank flap does not open, tap it and try again.

To unlock fuel filler cap: tum it anticlock wise.

If hissing occurs, wait until it stops before completely unscrewing the fuel filler cap. Remove fuel filler cap and place it in its holder on the inside of the tank flap.

The fuel tank has a limiting system which prevents overfilling of the tank.

Correct refuelling is largely dependent on correct operation of the dispensing pump:

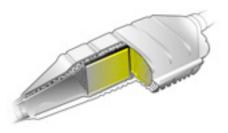
- Insert dispensing pump as far as it will go and switch it on.
- After the first automatic cut-off, do not fill the tank any further.

Replace the fuel filler cap and turn it clockwise until you hear several clicks.

Close tank flap.

Wipe off any overflowing fuel immediately.

If fuel is spilt onto the vehicle, rinse the area with clean, cold water as soon as possible, to avoid permanent damage to painted surfaces.



17199 T

Catalytic converter, exhaust emissions

Catalytic converter for petrol engines Leaded fuel will damage the catalytic converter and parts of the electronic system, thereby rendering them inoperative.

On vehicles with a catalytic converter, the fuel tank filler neck is of a narrow design so that a dispensing pump for leaded fuel cannot be inserted. Damage to the catalytic converter or the vehicle may result if the following points are not observed:

- If the engine misfires or runs roughly after a cold start, the engine power has red uced significantly or other unusual operating problems occur that indicate a fault in the ignition system, please contact a workshop as quickly as possible. Drive at a slower speed and with less engine revs for a short time, if necessary.
- If unburned fuel enters the catalytic converter, this may result in overheating and irrepara ble dama ge to the catalytic converter.

You should therefore avoid frequent cold starts, unnecessarily long use of the starter when setting off, running the tank dry (an irregular fuel supply leads to overheating) and starting the engine by pushing or towing.

If the control indicator for exhaust emissions ^(C) flashes, lift your foot off the accelerator until the control indicator stops flashing and is steadily lit. Contact a work shop immediately. Control indicator ^(C) for exhaust emissions - ∞e pages 70,130.

Catalytic converter for diesel engines Damage to the catalytic converter or the vehicle may result if the following points are not observed:

Consult a workshop as quickly as possible in the event of irregular engine running, a significant loss of engine power or other unusual malfunctions. If necessary, driving may be continued for a short time at a low speed and with a low engine speed.



Controlling exhaust emission

Through design-related measures, primarily in the fuel injection and ignition systems (in combination with the catalytic converter), the proportion of noxious materials in the exhaust, such as carbon monoxide (CO), hydrocarbons (CH) and nitrog en oxides (NO_x), is reduced to a minimum.



 $\frac{\text{Control indicator for exhaust emissions}}{\text{Control indicator } \square \square \text{ illuminates for a few}}$ seconds when the ignition is switched on.

If it illuminates when the engine is running, there is a fault in the emission control system or with the diesel particle filter *****. The permitted emission values may be exceeded. Consult a workshop.

Flashing with the engine running indicates a fault that may damage the catalytic converter. The vehicle's electronic system will switch to an emergency running programme so you may continue to drive without causing damage, by slowing down until the flashing stops and the control indicator is steadily lit. Consult a workshop immediately.



Control indicator for engine electronics Control indicator 🖙 illuminates for a few seconds when the ignition is switched on.

If it illuminates when the engine is running, there is a fault in the engine electronics. The electronics switch to the emergency running programme, fuel consumption may increase and the driveability of the vehicle may be affected.

In some cases, the fault can be eliminated by switching the engine off and back on again. If the control indicator illuminates again when the engine is running, have the cause of the fault eliminated by a workshop.

Exhaust gases

∕∆Warning

Engine exhaust gases contain poisonous carbon monoxide, which has no colour or od our and can be lethal if inhaled.

If exhaust fumes penetrate the vehicle interior, open the windows and consult a work shop immediately.

Do not run engine in enclosed spaces, e.g. in a garage, or sit in a parked vehicle for an extended period with the engine running.

Do not drive with tailgate open. If driving with the tailgate open is necessary, set fan to highest speed, close wind ows and ensure air recirculation mode is off, to allow entry of outside air.

If the underbody or rear of vehicle is damaged or corroded, you notice a change in the sound of the exhaust system, or whenever you suspect exhaust gases are penetrating the vehicle interior, consult a workshop immediately.

When the vehicle is driven for the first time, wax and oil on the exhaust system may evaporate, producing smoke-like emissions which should not be inhaled. Allow wax and oil to evaporate while the vehicle is in the open air.

Diesel particle filter (DPF) *

The diesel particle filter removes polluting soot particles out of the exhaust.

The system contains a self-cleaning function at certain intervals. The filter is cleaned by buming the soot particles at high temperature. This procedure runs automatically under certain vehicle conditions and can take up to 15 minutes, during which time fuel consumption may increase. The smell and the noise that occur are normal.

The system cannot automatically clean itself under certain vehicle conditions, such as driving short distances.

If control indicator \bigotimes illuminates, you should continue driving, and as soon as the road and traffic situation permits it, increase speed to more than 30 mph (50 km/h) and diesel particle filter cleaning will start.

Cleaning is quicker at faster speeds and under load. The engine speed should not drop below 2000 rpm. The control indicator extinguishes as soon as cleaning is complete.

We recommend that you do not tum the ignition off during cleaning.

Maintenance

Have all maintenance work carried out at the intervals specified by Vauxhall. We recommend that you entrust this work to your Vauxhall Authorised Repairer, who has proper equipment and trained personnel available. Electronic testing of systems permits rapid diagnosis and remedy of faults. This way, you can be certain that all components of the vehicle's electrical, injection and ignition systems operate correctly, that your vehicle has a low level of pollutant emission and that the catalytic converter system will have a long service life.

You are thereby making an important contribution towards keeping the air clean and compliance with emissions legislation.

Checking and adjustment of the fuelinjection and ignition systems is part of the scope of a Service. For this reason, you should have all maintenance work carried out at the intervals specified in the chapter "Service, Maintenance" on page 202.

Drive control systems

Electronic Stability Control (ESC)

The Electronic Stability Control improves driving stability when necessary, independently of the type of road surface and the tyre grip. It also prevents the drive wheels from spinning.

The system monitors vehicle movements. As soon as the vehicle starts to swerve (und ersteers / oversteers), engine output is reduced (the sound of the engine changes) and individual wheels are specifically braked. This considerably improves the driving stability of the vehicle on snow and ice and on wet or slippery road surfaces.

ESC is ready for operation after the ignition is switched on and the ESC control indicators \hat{B} , where and \hat{B} illuminate then exting uish after a pprox. 4 seconds. When the ESC comes into action, control indicator $\hat{\aleph}$ flashes in the instrument cluster. Some noise or vibration may be apparent.

The vehicle is now in a critical situation; the ESC helps you to keep control of the vehicle and reminds you to match your speed to the road conditions.

∆Warning

Do not let this special safety feature tempt you into taking risks when driving.

Traffic safety can only be achieved by adopting a responsible driving style.



ESC Active & Warning control indicator The control indicator illuminates in yellow for approx. 4 seconds when the ignition is switched on. The system is ready for operation when it exting uishes.

Flashing when driving;

The system has come into action. The engine output may be reduced (the sound of the engine changes) and the vehicle may be braked automatically to a small degree.

Illuminated when driving;

Fault in the system. Poor road surface conditions may cause vehicle stability to be impaired.

Have the cause of the fault remedied by a workshop. The system's integrated selfdiag nostics allows faults to be quickly remedied.



ESC Not Ready control indicator

The control indicator illuminates in yellow for approx. 4 seconds when the ignition is switched on.

Illuminates to indicate that the system is not ready for conditions to operate.

May illuminate in cold conditions. It should exting uish when the vehicle warms up.



Switching off

Control indicator 第 illuminates in yellow for approx. 4 seconds when the ignition is switched on.

With ESC active, if wheels are slipping on wet, snowy oricy roads, engine speed may not increase when accelerator pedal is depressed. The vehicle may not move.



Turn off ESC function to allow engine rpm to increase, by pressing button $\overline{\mathbb{R}}$. Control indicator $\overline{\mathbb{R}}$ illuminates in the instrument cluster.

The ESC function is turned on again by pressing button \mathbb{R} again (control indicator extinguishes) or the next time the ignition is switched on.

Hydraulic Brake Assist (HBA)

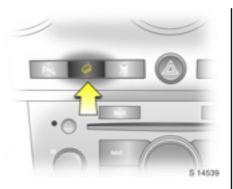
When the ESC function comes into action and recognises any emergency situations requiring hard braking, it automatically delivers increased braking pressure to the wheels.

Active Rollover Protection (ARP)

If the vehicle moves in a n unstable manner, this function helps the vehicle maintain normal stability.

Trailer Stability Assist (TSA) 🛠

TSA monitors vehicle movements when towing a caravan or trailer. If the system detects lurching movements, engine power is reduced and the vehicle / trailer combination is selectively braked until the lurching ceases.



DCS (Descent Control System)

The Descent Control System allows the vehicle to travel at a low speed without depressing the footbrake.

The vehicle will automatically decelerate to a low speed and remain at that speed when DCS button \mathcal{G} is pressed.

Use only when descending steep grades while driving off-road. Do not use when driving on normal road surfaces.

Some noise or vibration from the brake system may be apparent when DCS is active.



<u>To activa te</u>

At speeds below approx. 30 mph (50 km/h), press DCS button. The green DCS control indicator \checkmark will flash in the instrument cluster, to show DCS is in operation.

DCS will not activate at speeds above 30 mph (50 km/h), even if the button is pressed.

Unnecessary usage of the DCS function, such as while driving on normal roads, may dam age the brake system and the ESC function. To deactivate

Press DCS button again. The green DCS control indicator \mathcal{A} will extinguish.

Depressing the footbrake or accelerator will also cause the DCS function to be deactivated.



Fault

The yellow DCS control indicator G flashes to indicate that the system is not ready for conditions to operate, due to the high temperature (approx. 350 - 400 °C) of friction material, through severe or repeated braking. It will extinguish when the temperature drops below 350 °C.

The yellow DCS control indicator \mathscr{A} illuminates when there is a malfunction in the system, due to the extremely high temperature (over 400 °C) of friction material, through severe or repeated braking. It will extinguish when the temperature drops below 350 °C.

These temperatures may differ according to vehicle conditions or outside conditions.

Flashing or illumination of the yellow DCS control indicator Greminds the driver that the friction material needs to cool down: drive the vehicle without braking as much as possible.

If the control indicator does not extinguish, have the cause of the fault remedied by a workshop.

Cruise control *

Cruise control can store and maintain speeds over a pprox. 20 mph (30 km/h).

Deviation from the stored speed may occur when driving uphill or downhill.

For safety reasons, cruise control cannot be activated until the footbrake has been depressed once.

Cruise control is operated with buttons – SET, + RES and CRUISE on the turn signal stalk.

Do not use cruise control if it is not advisable to maintain a constant speed (e.g. in situations presenting a danger to yourself and other road users, in heavy traffic or on winding, slippery or greasy roads).

With automatic transmission, only use cruise control while in **D**.

When cruise control is active, reaction times may be increased, due to the different position of the feet.

∆Warning

The driver is always responsible for ensuring that vehicle speed is appropriate for the speed limit and driving conditions - even if cruise control is engaged.

Failure to follow the instructions could lead to injuries or endanger life.



Control indicator for cruise control When driving, control indicator (3) will illuminate when the system is switched on and the desired vehicle speed is stored.

Illuminated in yellow; cruise control is ready for operation by pressing the **CRUISE** button.

Illuminated in green; cruise control speed is set by pressing the – SET button.



\$17238

To activate

Press the **CRUISE** b utton to turn cruise control on. Accelerate to the desired speed, press the – **SET** button and release it; the current speed is stored and maintained. The accelerator pedal can be released after setting cruise control speed.

Vehicle speed can be increased temporarily for overtaking purposes, by depressing the accelerator pedal. When the accelerator pedal is released, the previously stored speed is resumed.

Increase speed

With cruise control active, press and hold the + **RES** button and release it when the desired vehicle speed is reached.

To increase the speed in steps of 1.2 mph (2 km/h), tap the + **RES** button and release it.

When the + **RES** button is released, the current speed is stored and maintained.

Alternatively, use the accelerator pedal to increase vehicle speed, press the – **SET** button and release it, then release the accelerator pedal.

When the – ${\rm SET}$ button and the accelerator pedal are released, the current speed is stored and maintained.

Decrease speed

With cruise control active, press and hold the – **SET** button and release it when the desired vehicle speed is reached.

To decrease the speed in steps of 1.2 mph (2 km/h), tap the – SET button and release it.

When the – **SET** button is released, the current speed is stored and maintained.

<u>To deactivate</u>

Switch off cruise control when not needed, to avoid accidental activation.

Press **CRUISE** button to turn cruise control off.

Control indicator (3) extinguishes and the vehicle slowly decelerates. To continue driving, depress the accelerator pedal in the usual manner.

For safety reasons, cruise control deactivates under certain driving conditions.

For example:

- If the vehicle speed drops below 20 mph (30 km/h), or
- If the brake pedal is depressed, or
- If the clutch pedal * is depressed, or
- If the automatic transmission ***** selector lever is in **N**, or
- If the traction control aspect of the Electronic Stability Control (ESC) comes into action, to limit wheel spin.

Resuming the stored speed

Press the + **RES** button at speeds above 20 mph (30 km/h); the speed selected before cruise control was switched off, is resumed.

The value of the stored speed is deleted when the ignition is switched off or the **CRUISE** button is pressed.



Parkina distance sensors *

The parking distance sensors make parking easier by measuring the distance between the vehicle and any obstacles to the front and rear and giving an acoustic signal in the passenger compartment.

The system records the distance using four sensors in both the front and rear bumpers.

To activate

The parking distance sensors activate automatically when the ignition is switched on and a forward gear or reverse gear is engaged and the handbrake is released.

The acoustic signal may differ dependina on the type of object detected.

If the vehicle approaches an obstacle when in a forward gear or while reversing, a series of signals can be heard in the vehicle interior. The interval between the signals becomes shorter as the distance is reduced. If the distance is less than 30 cm. the signal will be continuous.

AWarning

Under certain circumstances, various reflective surfaces on objects or clothing as well as external noise sources may cause the system to fail to detect obstacles

The parking distance sensors may not recognise sharp objects, thick clothes or sponge-like materials which absorb the frequency.

If the sensors are damaged or covered with snow, dirt or ice, the parking distance sensors may not activate.

For these reasons, care must be taken when reversing, even if the parking distance sensors are operational. This is of particular importance when in the vicinity of pedestrians.



To deactivate

The system deactivates automatically when in neutral (automatic transmission * in **N** or **P**) with the handbrake applied. When the vehicle speed is greater than 5 mph (8 km/h), the system also deactivates

To deactivate the system manually, press button $\stackrel{\text{PW}}{\longrightarrow}$ on the instrument panel. The control indicator in the button will illuminate.

If the button is pressed again, the control indicator in the button will extinguish and the system will be reactivated as soon as a forward gear or reverse gear is engaged and the handbrake is released.



Control indicator for parking distance sensors

Control indicator $\mathbf{P}^{\mathbf{M}}$ illuminates while driving if there is a fault in the system.

If the acoustic signal sounds 3 times continuously when there are no obstacles near the front or rear bumper, there is a fault in the system.

Have the cause of the fault remedied by a workshop.

To ensure the safety of other road users and people in the vicinity and to avoid damage to the vehicle, remember:

- The parking distance sensors should only be considered as a supplementary function. Normal precautions should be maintained when reversing. Check the rear view and use the mirrors when reversing.
- Do not push, scratch or otherwise damage the sensors.
- Do not use high-pressure jet cleaners to clean the sensors. Clean only with a soft spong e and clean water.



S 13686

Automatic level control *

Automatic level control makes it possible to keep the height of the vehicle constant when subjected to different loads in the rear (e.g. when passengers are occupying the rear seats or when towing a caravan / trailer). This significantly improves driving conditions.

The vehicle is automatically raised at the rear to its previous unloaded level, increasing spring travel and ground clearance.

Headlight range adjustment - see page 93.

In the event of malfunctions, do not utilise the vehicle's full load capacity. Have the cause of the fault remedied by a workshop without delay. Tyre pressure monitoring system *

The tyre pressure monitoring system continually checks the pressure of all four wheels while driving.

A pressure sensor is integrated in each wheel. Once a minute, the pressure of each tyre is sent to a control unit, where it is compared. If the system detects one or more pressure differences, a message appears on the information display.

Current tyre pressures can be shown in the information display.

For the system to be operational, all wheels must be equipped with pressure sensors and all tyres must be filed to the prescribed pressure. The tyre pressure monitoring system automatically detects if the vehicle is being driven with a load of up to 3 persons or a full load.

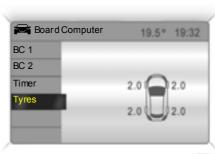
Once the ignition is switched on, the system is operational and will continuously monitor the tyre pressures at speeds of approx. 25 mph (40 km/h) and a bove.

∆Warning

The tyre pressure monitoring system does not replace manual checks with a suitable gauge.

Check tyre pressures at least every 14 days and prior to any long journey: the tyres should be checked when cold. Don't forget to check the spare.

Tyre pressure – see pages 217.



17334 T

Display of current tyre pressure Select menu item **Tyres** from the **Board Computer** menu.

The current pressure of each tyre is displayed.

Warning messages

A message is given on the information display to warn of inconsistent tyre pressures. In some versions, the message is displayed in abb reviated form.

For example, the following messages can be displayed:



A graphic indicating the left rear tyre is shown together with the current tyre pressure; slight pressure deviation. Reduce speed. Check pressure at next opportunity with appropriate gauge and correct if necessary.

On the Colour Information Display *****, this report will appear in yellow.

Board Computer	19.5° 22:22
	1000
Attention!	
Frontleft tyre pressureloss	18
(value in bar)	
OK	U I

A graphic indicating the front left tyre is shown together with the current tyre pressure; significant pressure deviation or direct pressure loss. Steer out of flow of traffic as quickly as possible without endangering other drivers. Stop and check the tyres.

Mount the spare wheel if necessary – see page 173.

On the Colour Information Display *****, this report will appear in red.

Acknowledgement of warnings – see page 80.

Brake system

The effectiveness of the brakes is an important factor for traffic safety.

In the interest of effectiveness, do not brake unnecessarily hard during the first 125 miles (200 km) after new disc brake pads have been fitted.

Wear of the brake linings must not exceed a specified limit. Regular maintenance, as detailed in the chapter "Service, Maintenance" on page 202, is therefore of the utmost importance for traffic safety.

Have worn brake pads replaced by a workshop. Pads which have been tested and passed ensure optimum brake performance.

Brake pads worn to their minimum thickness may generate a grinding noise. It is possible to continue driving. Have your brake pads replaced as soon as possible. Seek the assistance of a workshop for replacing the brake pads.

∕∆Warning

Disregard of these instructions may lead to injuries or endanger life.



Brake assist

Rapid powerful application of the brake pedal automatically applies maximum brake force amplification to achieve the shortest possible braking distance under full braking (brake assist).

Maintain steady pressure on the brake pedal for as long as full-on braking is to continue. When the brake ped al is released, the maximum brake force amp lification is taken away.

Footbrake

The brake system comprises two separate brake circuits.

If one brake circuit should fail, the vehicle can still be braked with the second remaining circuit.

If this happens, the brake pedal must be fully depressed with greater pedal pressure. The distance required for braking will be greater.

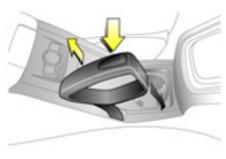
If, at any time during driving, the brake pedal can be depressed further than normal, the vehicle repeated ly pulls to one side under braking or brake noise is heard, consult a workshop. In order to utilise the full pedal travel, particularly in the event of a brake circuit fault, there must be no mats in the area of the peda's - see page 124.

With the engine stopped, the brake servo assistance is discontinued after the brake pedal has been depressed once or twice. The braking effect is not reduced, but increased foot pressure will be necessary. Take extra care when the vehicle is being towed.

Check the brake lights before starting out on a journey. Shortly after the start of each journey, the brake system should be tested for its effectiveness at low speed and without inconveniencing other road users, especially if the brakes are wet, e.g. after washing your vehicle.

Excessive braking when going downhill can cause brakes to temporarily overheat. Shift to a lower gear rather than continuously applying brakes.

The brake fluid level should be checked regularly - see page 193.



S 14396

Handb rake

Always apply handbrake firmly. On slopes, apply the handbrake as firmly as possible.

The mechanical handbrake acts on the brakes on the rear wheels. It engages automatically when applied.

To release the hand brake, press and hold the button, pull the lever up slightly and lower lever while holding the button in.

To reduce the operating forces of the handbrake, depress the footbrake at the same time.



Control indicator (D)(D) for brake system Illuminates when ignition is switched on. Extinguishes after engine is started.

Illuminates if hand brake is a pplied and/or fluid level for brake hydraulics is too low.

Brake fluid level - see page 193.

∆Warning

If it illuminates when the hand brake is not applied: stop vehicle, interrupt your journey im mediately.

Check brake fluid level and top-up if necessary before consulting a workshop. Have cause of brake fluid loss remedied. If the control indicator stays lit, the brakes do not operate as normal or leaks are found in the brake system, do not attempt to drive the vehicle. Have the vehicle towed to a workshop for inspection and repair.

If the control indicator does not illuminate when the ignition is switched on or when the handbrake is applied (with ignition on), stop and consult a workshop.

Anti-lock Brake System (ABS) 📾

The ABS continually monitors the vehicle's brake system and prevents the wheels from locking, irrespective of the road condition and tyre grip.

It starts to regulate the braking pressure as soon as a wheel shows a tendency to lock. The vehicle remains steerable, even in the event of very heavy braking, e.g. on bends or when swerving to avoid an obstacle. Even in the case of full-on braking, the ABS makes it possible to drive round an obstacle without releasing the brakes.

ABS control is made apparent through a pulse in the brake pedal and the noise of the regulation process.

⚠Warning

For optimum braking, keep the brake pedal fully depressed throughout the braking process, despite the fact that the pedal is pulsating. Do not reduce the pressure on the pedal.

Do not let this special safety feature tempt you into taking risks when driving.

Traffic safety can only be achieved by adopting a responsible driving style.



Control indicator (189) for ABS

Illuminates in yellow for approx. 4 seconds when the ignition is switched on.

At the same time, the system performs a self-check. When the control indicator extinguishes, the system is ready for operation.

If the control indicator does not illumina te when the ignition is switched on, does not extinguish after approx. 4 seconds, or if it illuminates during driving, there is a fault in the ABS. The vehicle's brake system may remain operational without ABS regulation. If control indicator () illuminates during driving a long with brake system control indicator (), there is a serious fault in the brake system. Have the system checked immediately by a workshop.

Fault

∆Warning

If there is a fault in the ABS, the wheels may tend to lock in the event of unusually heavy braking. This may cause the vehicle to swerve. The benefits of the ABS are lost.

You can continue driving, provided you drive with care and anticipation.

Have the cause of the fault remedied by a workshop. The system's integrated selfdiag nostics allows faults to be quickly remedied.

Wheels, tyres

See page 216 for suitable tyres and restrictions.

Factory-fitted tyres are matched to the chassis and offer optimum driving comfort and safety.

Changing tyre / wheel type

Note the necessary modifications before switching to different tyres or wheels.

∆Warning

Use of unsuitable tyres or wheels may lead to accidents and render the vehicle unroadworthy.

If wheel rims of a different type are to be installed, the wheel nuts may also need to be changed. We recommend you consult a Vauxhall Authorised Repairer.

If tyres of a different size to those fitted at the factory are used (this includes winter tyres), the electronic speed on eter may possibly need to be reprogrammed, to ensure that the speed displayed is correct.

Vehicles with tyre pressure monitoring system *

When using winter tyres, or when switching to different tyre sizes, sensors for the tyre pressure monitoring system can be fitted at a later date by a workshop, upon request. Otherwise, the system would not indicate tyre pressure deviations.

Tyre pressure monitoring system - see page 140.

Fitting new tyres

New tyres should be fitted in pairs, or, for preference, in sets. Make sure that both tyres on an axle are:

- the same size,
- the same design,
- the same make,
- and have the same tread pattern.

Fit directional tyres such that they roll in the direction of travel. The rolling direction is indicated by a symbol (e.g. an arrow) on the sidewall.

Tyres fitted op posing the rolling direction (e.g. when a tyre is changed) should be refitted as soon as possible. This is the only way to obtain full benefit from the design properties of the tyre.

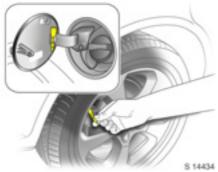
Observe legal requirements when disposing of tyres.

Some brands of tyres have a beaded edge for alloy wheels, to protect against dam age. If wheel trims are used on steel wheels with beaded-edge tyres, the following procedure must be followed:

- Wheel trims and tyres that are approved by Vauxhall for the respective vehicle and com ply with all of the relevant wheel and tyre com bina tion requirements must be used.
- If the wheel trims and tyres used are not Vauxhall-approved, the tyres must not have a beaded edge.

∕∆Warning

Use of unsuitable tyres or wheel trims could lead to sudden pressure loss and thereby accidents.



Tyre pressure

Check tyre pressures when cold, at least every 14 days and prior to any long journey. Don't forget to check the spare

Use the valve cap key ***** to make unscrewing the valve caps easier. The valve cap key is located on the inside of the tank flap.

Tyre pressures - see page 217.

Increased pressure resulting from tyre warm-up must not be reduced, otherwise the pressure may drop below the permissible minimum when the tyres cool down



After having checked the tyre pressures. securely tighten the valve caps.

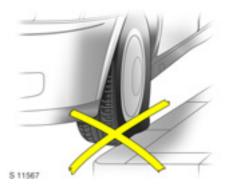
Incorrect inflation pressures will impair safety, vehicle handling, comfort and fuel economy and will increase tyre wear.

If the pressure is too low, this can result in considerable tyre warm-up and internal damage, leading to tread separation and even to tyre blow-out at high speeds.

Hidden tyre damage is not eliminated by subsequently adjusting the inflation pressure.

AWarning

Incorrect tyre pressure could lead to a flat tyre.



Tyre condition, wheel condition

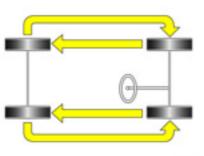
Driving over sharp edges can lead to hidden tyre damage and wheel damage which is only noticed later on; danger of tvre blow-out.

Drive over edges slowly and at a right angle if possible. When parking, ensure that the tyres are not pressed against the edae of the kerb.

Check tyres regularly for damage (foreign bodies, punctures, cuts, cracks, bulges in sidewalk). Check wheek for damage. In the event of damage or abnormal wear, consult a workshop.

∆Warning

Damage may lead to tyre blowout.



S 11568

Tread depth

Check tread depth regularly. Should the front tyres show greater wear than the rear tyres, have both front wheels exchanged with the rear wheels so that the tyres with deeper tread are on the front axle.

For information on how to change a wheel - see page 174.

Check the tyre pressures - see page 217.



For safety reasons, tyres should be replaced when their tread depth has worn down to 2 to 3 mm. The leg al permissible minim um tread depth (1.6 mm) has been reached when the tread has worn down as far as one of the wear indicators.

A number of wear indicators are spaced at equal intervals a round the tyre, within the tread. Their position is indicated by markings on the tyre sidewall.

General information

Note that the danger of aquap laning is greater if the tyres are worn and if the tyre pressures are not correct.

Tyres age, even if they are used only very little or not at all. A spare wheel which has not been used for six years should be used with care.

Never fit used tyres the previous history and use of which you do not know.

148 Driving and operation

Tyre designations Meanings:

e.g. 235/60 R 17 102 H

235 = Tyre width in mm

- 60 = Aspect ratio (tyre height to tyre width in %)
- R = Belt type: Radial
- 17 = Rim dia meter in inches
- 102 = Load index e.g.: 91 represents 618 kg
- H = Speed code

Speed code letters:

- **Q** Up to 100 mph (160 km/h)
- S Up to 112 mph (180 km/h)
- T Up to 118 mph (190 km/h)
- H Up to 130 mph (210 km/h)
- V Up to 150 mph (240 km/h)
- W Up to 168 mph (270 km/h)

Winter tyres 🛠

See page 216 for restrictions.

Winter tyres (M + S tyres) im prove safety at extremely low outside temperatures and should therefore be fitted on all wheels.

The design of summer tyres means they have limited qualities for winter driving.

If the maximum permissible speed for the winter tyres is less than that of the vehicle, a notice indicating the maximum permissible speed for the tyres must be affixed within the driver's field of vision *****¹⁾.

If you use the spare wheel when it is fitted with a summer tyre; the vehicle's driveability may be affected, especially on slippery road surfaces. Obtain a replacement for the faulty tyre as soon as possible, and have the wheel balanced and fitted to the vehicle.

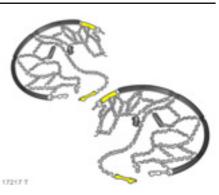
Ensure that winter tyres are inflated to the correct pressure specified by the tyre manufacturer.

If winter tyres are installed that have not been approved for your vehicle, ESC performance may be affected. Consult a work shop regarding availa bility of approved winter tyres.

Wheel trims 🛠

If the wheel trims and tyres used are not Vauxhall-approved, make sure the tyres do not have a beaded edge - see page 145.

¹⁾ Varies from country to country on account of national regulations.



Tyre chains * See page 216 for restrictions.

Tyre chains must not be used on the temporary spare wheel. If you need to use tyre chains after suffering a flat front tyre, fit the temporary spare wheel on the rear axle and transfer one of the rear wheels to the front axle. Always use fine-linked chains that add no more than 15 mm to the tyre tread and the inboard sides (including chain lock).

Tyre chains may only be used at speeds of up to 30 mph (50 km/h)¹⁾ or up to the tyre chain manufacturer's recommended maximum speed, whichever is lower.

When travelling on roads that are free of snow, they may only be used for brief periods since they are subject to rapid wear on a hard road and may snap.

Avoid sharp turns, bumps and holes and do not lock the wheels when braking, to avoid damaging the tyre chains.

Retighten the chains after driving for approx. 0.6 miles (1 km). If, at any time, you hear or suspect that the chains are contacting the vehicle, stop and retighten the chains.

Always read the instructions supplied with the tyre chains.

Temporary spare wheel

The temporary spare wheel is designed for use on your vehicle only.

Do not attempt to use the spare tyre on a different wheel, or use a different tyre on the spare wheel, as they will not fit.

For notes on the temporary spare wheel - see p age 174.

Ensure the temporary spare wheel is inflated to the correct tyre pressure - see page 217.

Wheel changing - see page 174.

Roof racks 🛠

∆Warning

Disregard of the instructions may lead to injuries or endanger life. Vehicle passengers must be informed accordingly.

For reasons of safety and to avoid dam aging the roof, we recommend that you use the Vauxhall roof rack system approved for your vehicle.

Fasten the roof rack to the roof rails following the instructions that accompany the system, ensuring that the roof load is evenly distributed over the side or cross rails. Loads must not be placed on the roof surface.

To prevent damage or loss, check frequently that roof loads are securely fastened.

Driving with a roof load affects the vehicle's centre of gravity; drive carefully in crosswinds and do not drive at high speeds.

Driving hints - see page 123.



8 14512

Flex-Fix system *****

The Flex-Fix system allows up to two bicycles to be attached to a pull-out carrier integrated beneath the vehicle floor.

The maximum load is 40 kg.

If not in use, the Flex-Fix system has to be collapsed back beneath the vehicle floor.

There must not be any objects on the bicy cles that could become bose during transportation.

A multi-function box ***** is offered as an accessory for the carrier system. The transportation of other objects is not permitted.



Extend Flex-Fix system Open tailgate - see page 22.

∆Warning

No persons may remain in the extension zone of the Flex-Fix system while opening; risk of injury.

Raise the release lever. The system disengages and travels quickly out from the bumper.



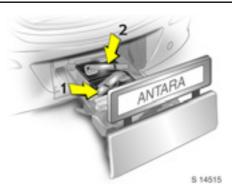
Completely pull out the Flex-Fix system until you hear it engage.

Ensure that it is not possible to push in the Flex-Fix system without pulling the release lever a gain.



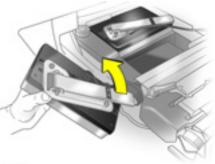
\$ 14568

Pull up number plate holder and fully insert the holder supports into the retainers.



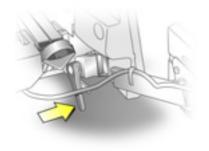
Install the tail lights

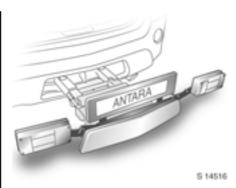
Remove the left tail light (1), then the right tail light (2) from the storage bay.



18339.5

Open out the light support on the back of the tail light all the way.





Push the clamping lever and insert the light support into the retainer until it hits the securely located.

S 14570

Perform this procedure for both tail lights.

stop.

Check the cable and light position to make sure these are correctly installed and are



Lock the Flex-Fix system

Swivel the left clamping lever (1) outwards first, followed by the right clamping lever (2) until they stop. Both clamping levers must point backwards, otherwise safe functionality is not guaranteed.

∆Warning

It is only permissible to fit objects to the Flex-Fix system if the system has been correctly engaged. If the Flex-Fix system will not engage correctly, do not fit objects to the system and slide the system back. Contact a workshop for assistance.

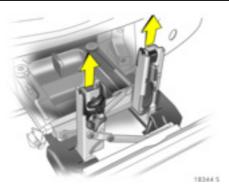
Close the tailgate.



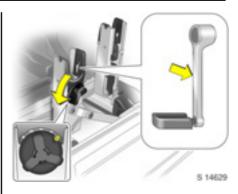
S 14517

Unfold pedal crank recesses

Fold one or both pedal crank recesses upwards until the diagonal support engages.



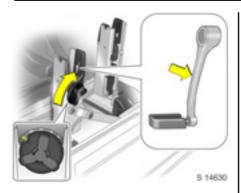
Remove the pedal crank mounts from the pedal crank recesses.



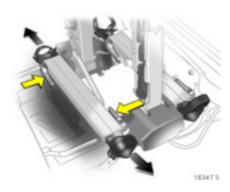
Adapting the Flex-Fix system to a bicycle With the rotary lever on the pedal crank recess, roughly adapt the adjustable pedal crank unit to the protrusion of the pedal crank.

If the bicycle has straight pedal cranks, unscrew the pedal crank unit all the way (position 5), see illustration.

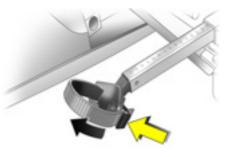
154 Driving and operation



If the bicycle has curved pedal cranks, screw in the pedal crank unit all the way (position 1), see illustration.



Press the release lever and withdraw the wheel recesses.



18348.5

Push the release lever on the strap retainer and remove the strap retainer.



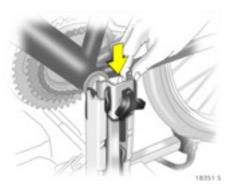
Prepare the bicycle for attachment Rotate the left pedal (opposite the chain cog) vertically downwards. The pedal on the left pedal crank must be horizontal.

The front bicycle must have its front wheel facing left.

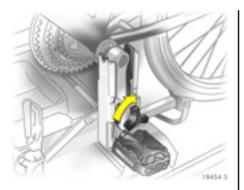
The rear bicycle must have its front wheel facing right.



Attaching a bicycle to the Flex-Fix system Put on the bicycle. The pedal crank here must be placed in the pedal crank recess opening as shown in the illustration.



Insert pedal crank mount into outer rail of each pedal crank recess from above and slide downwards as far as it will go, see Fig. 18454 S on page 156.



Attach the pedal crank by rotating the attachment screw on the pedal crank mount.



Place the wheel recesses such that the bicycle is more or less horizontal. Here, the distance between the pedals and the tailg ate should be at least 5 cm. Setting the wheel recesses - see page 154

Both bicycle tyres must be in the wheel recesses. In order to prevent damage, neither the pedal bearing housing on the bicycle nor the pedal crank should be touching the pedal crank recess.

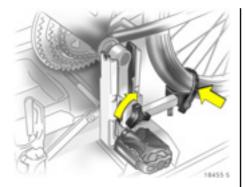


Align the bicycle in the longitudinal direction of the vehicle:

Slightly loosen the pedal bearing mount - see page 153, Fig. 14629 S.

Place the bicycle upright using the rotary lever on the pedal crank recess see page 153, Fig. 14629 S or page 154, Fig. 14630 S.

If the two bicycles obstruct one another, the relative positions of the bicycles can be adapted by adjusting the wheel recesses and the rotary lever on the pedal crank recess until the bicycles no longer touch one another. Make sure there is sufficient clearance from the vehicle.

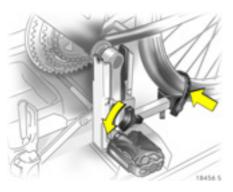


Tighten the attachment screw for the pedal bearing mount to its maximum point.

Secure both bicycle wheels to wheel recesses using strap retainers.

Check the bicycle to make sure it is secure.

The settings for the wheel recesses and the rotary lever on the pedal crank recess should be noted and saved for each bicycle. Correct presetting will facilitate refitting of the bicycle.

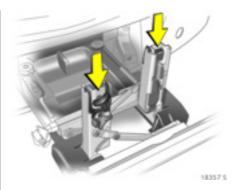


Removing a bicycle from the Flex-Fix system

Undo strap retainers on both bicycle tyres.

Hold on to the bicycle, loosen the attachment screw for the pedal bearing mount, then lift the pedal bearing mount to remove it.

Remove bicycle from the Flex-Fix system.

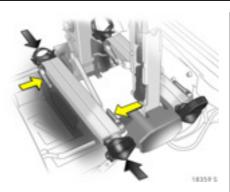


Retracting the Flex-Fix system Push the pedal crank mounts into the pedal crank recesses.



18358.5

Secure the strap retainer and pull tightly downwards as far as possible.



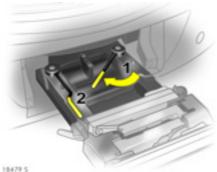
Press release lever and slide in wheel recesses all the way as far as they will go.



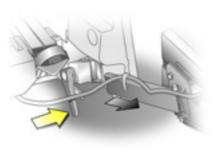
Disengage the locking lever on the diagonal support and fold both pedal crank recesses down.

∕∆Warning

Caution; risk of trapping fingers.

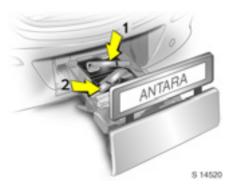


Swivel first the right clamping lever (1), inwards, followed by the left clamping lever (2), until they can be engaged in their respective recesses.



S 14571

Push the clamping lever and pull both light supports out of the recesses.



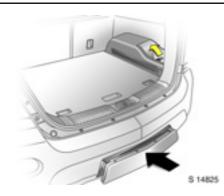
Fold in the light supports on the backs of the tail lights.

First place the right tail light (1), then the left tail light (2) in their respective recesses and push down as far as possible. Push cables all the way into all guides in order to prevent damage.



8 14569

Pull up number plate holder and fold down into horizontal position.



Open the tailgate.

Raise the release lever and push the system into the bumper until it engages.

Ensure release lever returns to original position.

∆Warning

If the system cannot be correctly engaged, please contact a workshop for assistance.

Towing equipment *

If the vehicle is not equipped with a trailer hitch, we recommend having this retrofitted by a workshop, who will advise you on any possible towed load increases.

The workshop has instructions on how to install the trailer hitch and making any changes to the vehicle that are needed that affect the cooling system, heat shields or other equipment.

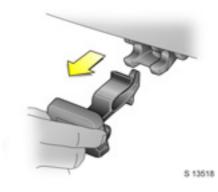


The coupling ball bar is to be removed when not towing.

Mounting dimensions of towing equipment - see page 220.

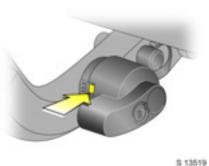
Towing equipment with detachable coupling ball bar * Stowage of coupling ball bar

The coupling ball bar is kept in a bag, fastened with a strap and is stowed below the floor cover in the luggage compartment.

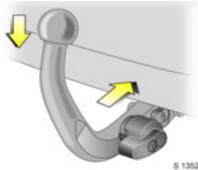


Fitting the coupling ball bar

Remove sealing plug from the hole for the coupling ball bar and stow it in the luggage compartment.



Confirm that the colour marking on the lever is red.



\$ 13520

Inserting the coupling ball bar Insert the coupling ball bar into the coupling housing and push firmly downwards until the coupling ball bar audibly engages.

If it does not engage, repeat fitting procedure.

Do not swing the coupling ball bar to the left orright, or upwards and downwards, to avoid disrupting correct fitting.



\$ 13521

Lock coupling ball bar by turning the supplied key in the lock cylinder of the coupling ball bar.

Remove key.

Important

Check that the coupling ball bar is correctly attached:

- Green marking must be visible on lever.
- Coupling ball bar must be seated firmly in coupling housing.

Coupling ball bar must be locked and key must be removed.

∆Warning

Towing a caravan / trailer is only permitted with a properly attached coupling ball bar. If the coupling ball bar cannot be properly attached, consult a workshop.

Eye for break away stopping cable * In the case of caravans / trailers with brakes *, attach the breakaway stopping cable to the eye - not the coupling ball bar.



\$ 13522

Dismounting the coupling ball bar Unlock coupling ball bar and remove key.

Push lever to the left, towards the coupling ball b ar and turn it downwards. Pull coupling ball bar out of coupling housing.

Remove any rust or dirt from area around the coupling housing and coupling ball bar connection before inserting sealing plug in the hole.

Place the coupling ball bar in the bag supplied, fasten it with the strap and stow it below the floor cover in the luggage compartment.

Do not use steam-jet cleaners or other high-pressure cleaners to clean the coupling ball bar.

Towing

Caravan / trailer loads¹⁾

The permissible caravan / trailer loads are vehicle-dependent and engine-dependent maximum values which must not be exceeded.

The actual caravan / trailer load is the difference between the actual gross weight of the caravan / trailer and the actual coupling socket load with the caravan / trailer coupled.

When the caravan / trailer load is being checked, therefore, only the caravan / trailer wheels - and not the jockey wheel must be standing on the weighing apparatus.

The permissible caravan / trailer loads for your vehicle are given in the vehicle papers. Unless otherwise stated, they are valid for gradients up to max. 12%.

The permissible caravan / trailer load should be fully utilized only by drivers who are adequately experienced in towing large caravans / trailers.

The permitted caravan / trailer load applies up to the specified incline and up to an altitude of 1000 metres above sea-level. Since engine power decreases as altitude increases because of the air becoming thinner, therefore reducing climbing ability, it may not be possible for permissible trailer loads to be fully utilized in mountainous territory.

The permitted towing weight decreases by 10% for every 1000 metres of additional altitude.

The towing weight does not have to be reduced when driving on roads with slight inclines (less than 8%, e.g. on motorways).

The actual caravan / trailer load plus the actual Gross Vehicle Weight must not exceed the maximum permitted towing weight. For example, if the permitted Gross Vehicle Weight is utilised, the caravan / trailer load must only be used until the maximum permitted towing weight is reached.

The maximum permitted towing weight is shown on the vehicle identification plate - see page 208.

¹⁾ Observe national regulations.

164 Driving and operation

Coupling socket load

The coupling socket load is the load exerted by the caravan / trailer on the coupling ball. It can be varied by changing the weight distribution when loading the caravan / trailer.

The maximum permissible coupling socket load for the towing vehicle (80 kg) is stated on the towing equipment identification plate and should always be aimed for, particularly in the case of heavy caravans/ trailers. The coupling socket load should never be below 25 kg.

When measuring the coupling socket load, make sure that the drawbar of the loaded caravan / trailer is at the same height as it will be when the caravan / trailer is coupled with the towing vehicle loaded. This is particularly important for caravans/ trailers with tandem axle.

Rear axle load during towing

When the caravan / trailer is coupled and the towing vehicle fully loaded (including all occupants), the permissible rear axle load must not be exceeded.

National regulations regarding maximum speeds for vehicles towing a caravan / trailer must be observed.



Tyre pressure

Increase the tyre pressure on the towing vehicle to the value specified for full load (see page 217). Also check the pressure of the caravan / trailer tyres.

Driving characteristics, towing tips

In the case of caravans / trailers with brakes *, attach the breakaway stopping cable to the eye * or loop around coupling ball bar if no eye is available.

Ensure cable is crossed under the coupling socket to ensure the caravan / trailer nose cannot drop to the ground if it becomes separated from the trailer hitch.

Do not allow the cable to drag along the ground and always allow enough slack to permit full turning. Follow the instructions supplied with the towing equipment.

Before coupling the caravan / trailer, lubricate the ball of the caravan / trailer towing device. However, do not do so if a stabilizer which acts on the coupling ball is being used to damp rolling motions.

Handling is greatly influenced by the loading of the caravan / trailer. Loads should therefore be secured so that they cannot slip and should be placed in the centre of the caravan / trailer if possible, i.e. above the axle.

Vauxhall genuine parts and accessories which can be subsequently fitted aid trailer operation, e.g. large mirrors for wide caravans / trailers. In the case of caravans / trailers with low directional stability, it is a dvisa ble to use a friction-type stabilizer to damp rolling motions.

Do not drive faster than 50 mph (80 km/h), even in countries where higher speeds are permitted.

When driving uphill, do not drive faster than 20 mph (30 km/h) in 1st gear, or 30 mph (50 km/h) in 2nd gear.

Make sure that you have enough room when cornering and a void sud den manoeuvres.

If the caravan / trailer starts to sway, drive more slowly, do not attempt to correct the steering and brake sharply if necessary.

If it is necessary to a pply the brakes fully, depress the brake ped al as hard as possible.

The cooling fan is electrically operated. The fan cooling capacity is not, therefore, dependent on engine speed. It is not necessary, when driving uphill, to shift down into a lower gear if the vehicle can climb in a higher gear. When coupled to a caravan / trailer, the vehicle requires more braking effort when driving down long gradients, so select the same gear as you would when driving uphill and drive at roughly the same speed.

Automatic transmission in Automatic mode will select the driving programme with the optimum engine braking effect.

Remember that braking distances for vehicles towing caravans / trailers with and without brakes is always greater than for vehicles not towing a caravan / trailer. For caravans / trailers with brakes, follow the instructions carefully. Do not make any modifications to the brake system.

Always check lights on caravans / trailers before towing. Ensure national regulations are observed.

The fog tail light on the vehicle is deactivated when towing a caravan / trailer.

When reversing, if possible, have some one provide assistance.

Drive slowly and shift down into a lower gear when descending steep gradients rather than holding the footbrake depressed, to avoid overheating and reduced brake efficiency.

166 Driving and operation

Block the wheels of both the caravan / trailer and the vehicle when parking and always apply the handbrake fim ly. If possible, do not park on slopes.

∆Warning

Have someone provide assistance when removing blocks. Always remove blocks from wheels while standing to one side.

Do not remove blocks while standing behind the caravan / trailer; risk of injury and damage to both the vehicle and caravan / trailer.



Parking on inclines

If parking on an incline is unavoidable, depress the footbrake, have some one place wheel blocks under the caravan / trailer wheels and release the footbrake until the blocks have absorbed the load.

Depress footbrake again, apply handbrake, engage first gear on uphill gradients or reverse gear on downhill gradients (automatic transmission ***** in **P**) and finally, release footbrake.



\$ 13692

Starting on inclines

Depress the footbrake and hold it down, start the engine, shift into gear and release the handbrake.

Release footbrake and drive slowly until the caravan / trailer is clear of the wheel blocks. Stop the vehicle and have someone pick up the blocks. If possible, the engine speed should not drop during this procedure.

Forvehicles with automatic transmission ***** in Automatic mode, apply sufficient throttle.

Before starting-off under extreme conditions (e.g. high combination weight, mountainous terrain with steep inclines), switch off all unnecessary electrical loads (e.g. heated rear window, air conditioning system, heated front seats **\$**).

Self-help, vehicle care

Diesel fuel system, bleeding	167
Bonnet	167
Starting	168
Starting the engine with jump leads $lpha$	168
Towing	170
Jack and vehicle tools	172
Warning triangle 🛦 🛠,	
First aid kit 🕲 🛠	173
Tem porary spare wheel	173
Wheel changing	174
Electrical system	177
Fuses and the most important circuits	
theyprotect	178
Bulb replacement	181
Vauxhall genuine parts and	
accessories	187
A note on safety	187
Checking and topping up fluids	187
Windscreen wiper	194
Windscreen wash system	195
Battery	196
Protection of electronic components	197
Vehicle storage	197
Vehicle care	198

∆Warning

Disregard of the instructions may lead to injuries or endanger life. Vehicle passengers must be informed accordingly.

Diesel fuel system, bleeding

Never let the fuel tank run dry. If control indicator Dilluminates, refuel as soon as possible.

It is possible to restart the engine if the tank has been run dry. A delayed start can be expected. Switch on the ignition three times for a pprox. 15 seconds. Then try to start the engine for no more than 40 seconds. If the engine will not start, wait at least 10 seconds before trying again. If the engine will still not start, consult a work shop.



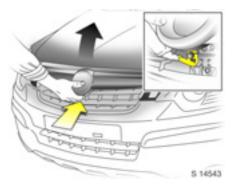
\$ 14456

Bonnet

To open the bonnet, pull release lever \Rightarrow located on the driver's side below the instrument panel.

The bonnet will then be unlocked and will partially open. Return release lever to its original position.

Do not pull release lever while the vehicle is moving.



To open completely, locate the safety catch, found slightly left of centre on the underside of the bonnet, push the catch upwards and lift the bonnet gently. The bonnet is held open automatically.

When the bonnet is opened, leaves, dirt or snow on the bonnet can slide down and obstruct the air intake. Rem ove any leaves, dirt or snow. Air intake - see page 110.

Never drive with bonnet open.

To close bonnet, lower it gradually, allowing it to drop from a height of ap prox. 30 cm.

Check that the bonnet is locked in position before driving, by pulling at its front edge. If it is not engaged, repeat closing proced ure.

Starting

Do not start with quick charger This prevents damage to electronic components.

∆Warning

If the vehicle battery requires charging whilst still in the vehicle, ensure there is adequate ventilation in and around the battery compartment, to prevent risk of explosion.

Do not start by pushing or towing

Because your vehicle is fitted with a catalytic converter, it must not be started by pushing or towing - see page 129.

The vehicle can only be started using jump leads - see following pages.

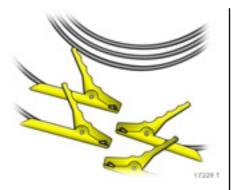
Starting the engine with jump leads **%**

A vehicle with a discharged battery can be started using jump leads and the battery of another vehicle.

Start attempts should be made at intervals of 1 minute and should not last long er than 15 seconds.

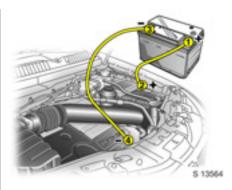
∆Warning

This must be done with extreme care. Any deviation from the following instructions could lead to personal injury or damage resulting from battery explosion, as well as to damage to the electrical systems in both vehicles.



- Never expose the battery to naked flames or sparks.
- A discharged battery can freeze at temperatures of 0°C. Defrost the battery in a warm room before connecting the jump leads.
- Do not allow battery fluid to contact eyes, skin, fabrics or painted surfaces. The fluid contains sulphuric acid which can cause injuries and damage in the event of direct contact.
- Wear eye protection and protective clothing when handling a battery.

- Use auxiliary battery with same voltage (12 volts). Its cap acity (Ah) must not be considerably less than that of the discharged battery. Voltage and capa city information can be found on the batteries.
- Use jump leads with insulated terminals and a width of at least 16 mm² (25 mm² for diesel engines).
- Do not disconnect the discharged battery from the vehicle.
- Switch off all unnecessary electrical consumers. Infotainment system may be dam aged if switched on while jump starting.
- Do not lean over the battery during jump starting procedure.
- Do not allow the terminals of one lead to touch those of the other lead.
- The vehicles should not touch while jump starting.
- Apply hand brake.
- Manual transmission in neutral, automatic transmission * in P.



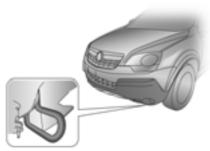
Connect the leads in the order shown in the illustration:

- Connect one end of the first jump lead to the positive terminal 1 of the battery providing the jump start (identified by "+" sign on battery case or terminal).
- 2. Connect the other end of the first jump lead to the positive terminal **2** of the discharged battery ("+" sign).
- Connect one end of the second jump lead to the negative terminal 3 of the battery providing the jump start (identified by "-" sign on battery case or terminal).
- 4. Connect the other end of the second jumplead **4** to ground on the vehicle with the discharged battery, e.g. on the engine block.

⚠Warning

Care must be taken to ensure that the leads do not inadvertently contact metal surfaces within the compartment area.

- Do not connect leads to negative terminal of discharged battery.
- The last connection point should be as far away from the discharged battery as possible.
- Route leads so they cannot catch on rotating parts in engine compartment.
- Start the engine of the vehicle providing the jump start.
- After 5 minutes, start the other engine. Start attempts should be made at intervals of 1 minute and should not last longer than 15 seconds.
- After starting, allow both engines to idle for ap prox. 3 minutes with leads connected.
- In order to avoid excess voltage in the electrical system, before removing a lead, switch on an electrical consumer (e.g. lights, heated rear window) in the vehicle receiving the jump start.
- Operate discharged vehicle for approx.
 20 minutes to allow for recharging.
- Reverse above sequence exactly when removing leads.



8 14541

Towing

Towing the vehicle

Attach a tow rope * - or better still a tow rod * - to the front towing eye (located under the front bumper). Do not tow the vehicle from the rear.

The front towing eye must only be used for towing and not recovering the vehicle.

∆Warning

Never lift vehicle using the towing eye.

Place gearshift lever in neutral. Switch on the ignition to release the steering column lock and to permit operation of the brake lights and windscreen wiper.

Drive off slowly and avoid jerky movements. Impermissible tractive forces could damage the vehicles.

∆Warning

More brake pedal pressure is necessary when braking since the brake servo unit is operative only when engine is running.

Considerably greater steering force is necessary since this unit is operative only when the engine is running. Keep tow rope * clear of front bumper, and ensure it is securely fixed to the towing eye at both ends. Pull on the tow rope * to check.

To prevent entry of exhaust fumes from towing vehicle, switch on air recirculation mode (see page 105) and close the windows.

Never let passengers ride in a vehicle that is being towed.

Never tow a vehicle with damaged parts that are not secured to the vehicle or if wheels, brakes or steering are damaged.

Do not tow the vehicle with a tow rope ***** or tow rod ***** for extended periods, to avoid damage to the vehicle. Only tow in this manner on hard-surfaced roads.

For vehicles with automatic transmission *****: use flatbed or wheel lift equipment only. Towing can cause severe damage to the transmission.

Seek the assistance of a workshop.

Towing service

Entrust your vehicle only to the towing service of your choice and obtain an estimate on towing costs before employing any towing service. This will prevent unnecessary expense and possible insurance problems during claim processing.

Use flatbed equipment whenever possible. If vehicle is to be towed using a wheel lift, tow with all wheels off the road, using a towing dolly.

Never use sling-type equipment to tow the vehicle or tow the vehicle with the front or rear wheels on the road, to avoid causing serious damage to the vehicle.

Place the gearshift lever in neutral (automatic transmission **%** in **N**), switch on hazard warning lights, tum key to starter switch position ACC and release the hand brake before towing the vehicle.



\$ 13574

Towing another vehicle

In emergency situations only, attach a tow rope * - or better still a tow rod * - to the rear towing eye.

The rear towing eye attachment ***** is stored below the floor cover in the luggage compartment.

Remove the cover located on the rear bumper by pressing the lower part of the cover.

172 Self-help, vehicle care

Screw the rear towing eye attachment anticlockwise until it is fim ly in place.

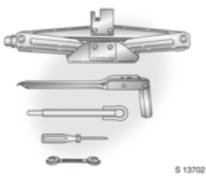
∆Warning

Never lift vehicle using the towing eye.

Drive off slowly and avoid jerky movements. Impermissible tractive forces could damage the vehicles.

To prevent damage, do not take up slack in the tow rope too quickly.

After towing, unscrew the rear towing eye attachment clockwise to remove, and reinstall the cover.



Jack and vehicle tools

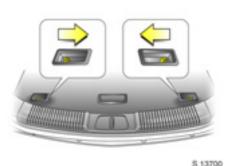
The jack and vehicle tools have been specially developed for your vehicle and must only be used on that vehicle. Only use jack for changing wheels.

The jack and vehicle tools are located in the luggage compartment below the floor cover.

∆Warning

In a sudden stop or a collision, loose items can be thrown around inside the vehicle, causing personal injury and damage to the interior.

Secure the jack and vehicle tools away properly under the floor cover in the luggage compartment.



2

To remove the jack and vehicle tools, open the tailgate. Push both levers on the floor cover towards the handle and pull up the floor cover by the handle.

Hang the hook to the upper part of the tailgate opening (see page 59, Fig. S 13419).

Remove wing bolt from the jack by rotating it anticlockwise and remove the jack and wheel wrench bag.

Remove straps holding the bag containing the wheel wrench. Remove wheel wrench from the bag.

Warning triangle 🛦 *, First aid kit 🖶 *

Your first aid kit and warning triangle can be a ccommodated below the floor cover in the luggage compartment.



Temporary spare wheel

The temporary spare wheel is located in the luggage compartment below the floor cover and is secured with a screw-in retainer.

Push both levers on the floor cover towards the handle and pull up floor cover by the handle (see page 172, Fig. S 13700). Hang the hook to the upper part of the tailgate opening (see page 59, Fig. S 13419).

Remove the retainer by rotating it anticlock wise, and remove spare wheel from the spare wheel well.

General information

If you use winter tyres , the spare wheel may still be fitted with a summer tyre.

If you use the spare wheel when it is fitted with a summer tyre, the vehicle's driveability may be affected, especially on slippery road surfaces.

Obtain a replacement for the faulty tyre as soon as possible, and have the wheel bala need and fitted to the vehicle.

174 Self-help, vehicle care

Notes on temporary spare wheel

- Using a temporary spare wheel may change the driving behaviour of the vehicle, particularly if using winter tyres *. Replace defective tyre as quickly as possible, balance wheel and fit to vehicle.
- Fit only one temporary spare wheel.
- Do not drive faster than 50 mph (80 km/h).
- Take curves slowly.
- Do not use the temporary spare wheel for a lengthy period.
- Replace tem porary spare wheel with full specification wheel without delay.
- When temp orary spare wheel is fitted, do not take the vehicle through an automatic car wash with guide rails. The temporary spare wheel may get caught on the rails, causing dam age to the tyre, wheel and other vehicle parts.
- Tyre chains are not permitted on the temporary spare wheel.

If tyre chains are necessary after a front wheel puncture, fit the temporary spare wheel to the rear and a rear wheel to the front. Check tyre pressure and adjust if necessary - see page 217.

■ Follow the temporary spare wheel instructions on pages 149, 177, 216.

Notes on directional tyres *****

Tyres with a prescribed rotating direction can only achieve their maximum performance if they are fitted in the prescribed rotating direction.

If a tyre or spare wheel is fitted that is rotating in the wrong direction due to a puncture, the following must be noted:

- The handling of the vehicle may be different. Replace defective tyres as soon as possible, have wheel balanced and fitted to the vehicle.
- Do not drive faster than 50 mph (80 km/h).
- Drive particularly carefully on wet and snow-covered road surfaces.
- For more information on tyres with a prescribed rotating direction see page 145.

Wheel changing

In order to reduce the chance of possible injuries, make the following preparations and note the procedure:

- Park on a level, firm and non-slippery surface.
- Switch on hazard warning lights and apply handbrake. Engage 1st gear or reverse (automatic transmission % in P).
- Correctly set up warning triangle *****.
- Ensure all vehicle passengers are out of the vehicle and clear of the vehicle and other traffic.
- Take the spare wheel from under the luggage compartment floor cover see page 173.
- Before raising the vehicle, turn front wheels to straight-ahead position.

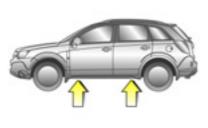
Remove wheel trim *.

- Slacken wheel nuts one turn only before raising the vehicle, but do not totally unscrew or remove the nuts until the wheel is off the ground.
- Never change more than one wheelata time.
- Block wheel diagonally opposite the wheel to be changed, by placing wedge blocks or equivalent in front and behind the wheel.
- Do not jack-up the vehicle when traffic is too close.
- Use jack only when changing wheels.
- Never exceed jack maximum working bad (900 kg).
- If the ground on which the vehicle is standing is soft, a solid board (max.1 cm thick) should be placed under the jack. Using a thicker board could lead to damage of the jack and the vehicle.

- Do not raise the vehicle more than is necessary to change a wheel.
- No people or animals may be in the vehicle when it is jacked-up.
- Never start or run the engine or crawl under a jacked-up vehicle.
- Before screwing on the wheel nuts when changing a wheel, apply a light coating of grease to the cone of each wheel nut.
- Fully tighten the wheel nuts after lowering the vehicle all the way, ensuring nuts have been tightened to the correct torque (see page 216).
- If conditions are not satisfactory to change a wheel safely, consult a workshop.

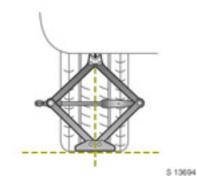


- 1. Prise off the wheel trim *.
- 2. Slacken the wheel nuts by one turn each using the wrench, putting the wrench on as far as possible.



\$ 13693

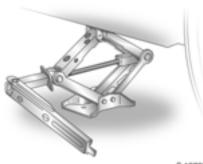
3. The location of front and rear jacking points is indicated by notches on the bottom edge of the vehicle, under the doors.



 Before positioning the jack, set it to the necessary height by rotating the eye by hand.

Position jack at the front or rear jacking point located nearest to the wheel concerned so that the jack claw spans the vertical base. Make sure it is properly positioned.

The jack base must be on the ground directly below the jacking point in a manner that prevents it from slipping.



\$ 13727

5. Attach wrench to eye of threaded rod and turn crank to raise vehicle.

If this is not the case, carefully low er the vehicle immediately and reposition the jack.

Raise the vehicle until the wheel is just clear of the ground.

 Unscrew wheel nuts completely by turning anticlockwise and wipe clean with a cloth. Then apply a light coating of grease to the cone of each wheel nut. Do not grease the threads.

Put wheel nuts somewhere where the threads will not be soiled.



- 7. Change the wheel. Notes on spare wheel - see page 174.
- Screw on wheel nuts and tighten slightly by hand until wheel is held against the hub.
- 9. Rotate wrench anticlockwise and lower vehicle to the ground.
- 10. Tighten wheel nuts in a cross-wise sequence, putting the wrench on as far as possible.

- 11. Stow replaced wheel in luggage compartment.
- Stow the jacking equipment and warning triangle * - see pages 172, 173.
- Check the tyre pressure of the newly fitted wheel - see page 217. Adjust as necessary.
- 14. Have the new wheel balanced on the vehicle and have the tightening torque of the wheel nuts checked as soon as possible, and if necessary, corrected. Tightening torque - see page 216.
- 15. Replace defective tyre on the wheel that was removed.
- 16. Replace temporary spare wheel with a full specification wheel without delay.

Electrical system

∆Warning

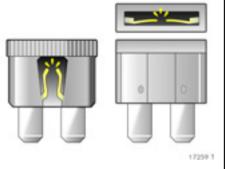
Electronic ignition systems generate very high voltages. Do not touch the ignition system; high voltage can be fatal.

Fuses

There are two fuseboxes in the vehicle: the instrument panel fusebox is located on the left-hand side of the driver's footwell, the engine compartment fusebox is located next to the coolant reservoir.

It is advisable to carry a full set of fuses.

Spare fuses are kept in the engine compartment fusebox.



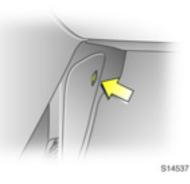
When replacing a fuse, turn off the respective switch and the ignition.

A defective fuse can be recognized by its melted wire. A new fuse should only be installed after the cause of the trouble has been eliminated.

There is a fuse extractor in the engine compartment fusebox. Do not use tools that conduct electricity when changing fuses. Only install fuses of the specified rating . Each fuse has its rating written on it, in addition the fuses are colour coded.

Fuses, Colour	Fuses, Rating ¹⁾
Grey	2 A
Light brown	5 A
Dark brown	7.5 A
Red	10 A
Light blue	15 A
Yellow	20 A
White	25 A
Light green	30 A
Orange	40 A
Dark blue	60 A

¹⁾ Rating in Amperes.

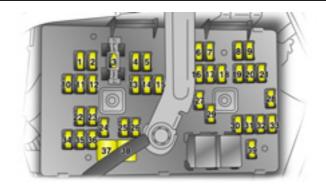


Fuses and the most important circuits they protect

Instrument panel fusebox

Located in the left-hand side of the driver's footwell. Release latch to open cover.

To help in replacing fuses, a fuse extractor is located in the engine compartment fusebox.



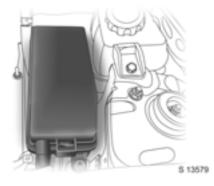
Some circuits may be protected by several fuses.

No.	Circuit	Rating
1	Accessory socket	20 A
2	Seat heating	20 A
3	Audio	15 A
4	Trailer	10 A
5	Parking light (right side)	10 A
6	Air conditioning	10 A
7	Power steering	10 A
8	Body Control Module	10 A
9	Vauxhall alarm	10 A
10	Central door locking	20 A
11	Turn signal (right side)	15 A
12	Turn signal (left side)	15 A

No.	Circ ui t	Rating
13	Stop	15 A
14	Headlight wash	15 A
15	Rear cluster	10 A
16	Air conditioning	15 A
17	Body Control Module	20 A
18	Body Control Module	15 A
19	Starter switch	2 A
20	Fog tail light	10 A
21	Airbag	10 A
22	Front door lock	15 A
23	Accessory socket	20 A
24	Transmission Control	15 A
	Module	
25	Engine	15 A
26	Body Control Module	10 A

\$ 13493

No.	Circuit	Rating
27	-	-
28	Windscreen wash	10 A
29	Exterior mirror heating	15 A
30	Instrument cluster	10 A
31	Ignition	10 A
32	Airbag	10 A
33	Steering wheel remote	2 A
34	Folding mirrors	10 A
35	-	-
36	Cigarette lighter	20 A
37	Passenger's electric window	20 A
38	Driver's electric window	20 A
39	Automatic transmission	10 A



Engine compartment fusebox

The fusebox is located next to the coolant reservoir in the engine compartment.

▲Warning

Switch off engine before opening the engine compartment fusebox; risk of injury.

To open, disengage cover and tilt upwards.

To help in replacing fuses, a fuse extractor is located in the engine compartment fusebox.

No. Circuit Rating 1 Engine 1 15 A 2 Engine 2 15 A 3 Engine Control Module 20 A 4 Engine 3 15 A 5 Air conditioning 10 A 6 10 A Main 7 20 A Starter 8 Cooling fan 30 A 9 Fuel pump 15 A 10 All Wheel Drive (AWD) 15 A

Some circuits may be protected by several

fuses.

No. Circuit Rating 11 Cooling fan auxiliary 30 A 12 Stop 15 A Seat heatina 13 20 A ABS module 14 20 A 15 ABS module 40 A 16 Horn 15 A 17 Wiper 25 A 18 Run 40 A 19 Accessory/Ignition 40 A 20 Sunroof 20 A 21 Anti-theft system 15 A

\$ 13580

No.	Circuit	Rating
22	Electric seat	30 A
23	Battery	60 A
24	Defogger	30 A
25	Dipped beam (left side)	15 A
26	Dipped beam (right side)	15 A
27	Parking light (left side)	10 A
28	Front fog lights	15 A
29	Main beam	15 A
30	Rear wiper	20 A
31	-	-
32	Headlight wash	20 A
33	Transmission Control Module	15 A
34	Trailer / parking light (left side)	10 A
35	Spare	25 A
36	Spare	20 A
37	Spare	15 A
38	Spare	10 A

Bulb replacement

Before replacing a bulb, switch off ignition and relevant switch.

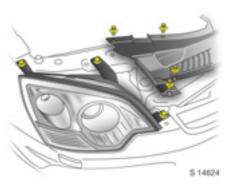
Only hold new bulbs at base! Do not touch the bulb glass with bare hands, otherwise fingerprints on the glass evaporate and residue builds up on the reflector eventually resulting in a dull reflector. Inadvertently stained bulbs may be cleaned with a clean lint-free cloth, using alcohol or white spirit.

Replacement bulb must be in accordance with data on base of defective bulb. Do not exceed wattage given on bulb base.

Headlight aiming

We recommend that headlight aiming be carried out by a workshop, which will have special equipment.

When aiming your headlights, the manual headlight range a djustment ***** must be set to **0**.



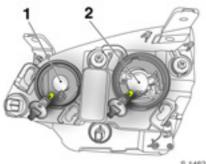
Headlightremoval

For bulb replacement, it is necessary to first remove the headlight assembly.

- 1. Switch off ignition and headlight switch.
- 2. Open the bonnet, release the 11 retainers and remove the radiator cover.
- 3. Remove 3 bolts and withdraw headlight.
- 4. Depress harness connector tags and disconnect headlight wiring.
- 5. Remove the headlight assembly.

Headlight assembly installation is the reverse of removal - ensure locating dowel aligns with its socket.

Do not overtighten bolts or retainers.

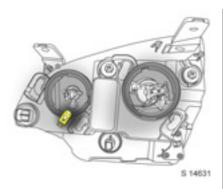


S 14623

Halogen headlight system Dipped and main beam

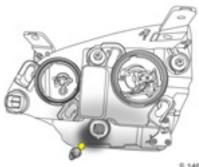
Main beam 1 (inner bulbs) and dipped beam 2 (outer bulbs).

- 1. Remove headlight assembly see page 181.
- 2. Remove headlight cap.
- 3. Release bulb retaining spring and remove bulb from reflector housing.
- 4. When fitting a new bulb, ensure the lugs engage correctly with the recesses on the reflector. Do not touch the glass.
- 5. Engage bulb retaining spring and replace head light cap.
- 6. Reinstall headlight assembly.



Parking lights

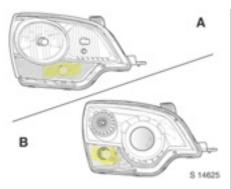
- 1. Remove headlight assembly see page 181.
- 2. Remove headlight cap and withdraw bulb holder (located next to main beam bulb) from light assembly.
- 3. Remove bulb from bulb holder by pulling it straight out.
- 4. Install new bulb, using a lint-free cloth to hold bulb.
- 5. Reinstall bulb holder in light assembly and replace headlight cap.
- 6. Reinstall headlight assembly.



S 14632

Front turn signal lights

- 1. Remove headlight assembly see page 181.
- 2. Rotate bulb holder anticlockwise and withdra w bulb holder from light assembly.
- 3. Press and rotate bulb anticlockwise to remove it from bulb holder.
- 4. Install new bulb into bulb holder by pressing and rotating it clockwise.
- 5. Reinstall bulb hold er in light a ssem bly by rotating it clockwise.
- 6. Reinstall headlight assembly.

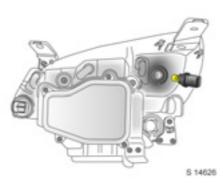


Xenon headlight system*

Halogen headlights **A** can be identified from Xenon headlights **B** by the different lens layout.

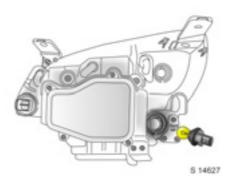
∆Warning

Xenon headlights operate at very high volta ges. Do not touch; risk of fatal injury. Have dipped beam and main beam repaired by a workshop only.



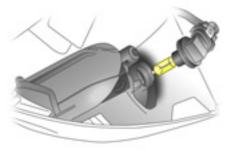
Parking lights

- 1. Remove headlight assembly see page 181.
- 2. Rotate bulb holder anticlockwise and withdraw bulb holder from light assembly.
- 3. Remove bulb from bulb holder by pulling it straight out.
- 4. Install new bulb, using a lint-free cloth to hold bulb.
- 5. Reinstall bulb holder in light assembly by rotating it clockwise.
- 6. Reinstall headlight assembly.



Front turn signal lights

- 1. Remove headlight assembly see page 181.
- 2. Rotate bulb holder anticlockwise and withdraw bulb holder from light assembly.
- 3. Press and rotate bulb anticlockwise to remove it from bulb holder.
- 4. Install new bulb into bulb holder by pressing and rotating it clockwise.
- 5. Reinstall bulb hold er in light a ssem bly by rotating it cloc kwise.
- 6. Reinstall headlight assembly.



S 13768

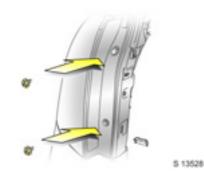
Front fog lights

- Remove 2 screws from panel on underside of vehicle below front fog lights and remove panel.
- 2. Disconnect harness connector from bulb holder and rotate bulb holder anticlockwise.
- 3. Remove bulb holder from light assembly, rotate bulb anticlockwise and remove from bulb holder.
- 4. Install new bulb into bulb holder and rotate it clockwise.
- 5. Reinstall bulb holder in light assembly and reconnect harness connector.
- 6. Reinstall panel to underside of vehicle using 2 screws removed earlier.



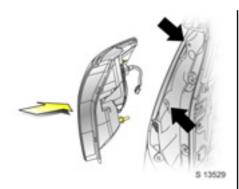
Side repeater lights

- 1. Using a suitable screwdriver, pry light assembly away from wing.
- 2. Rotate bulb holder anticlockwise.
- 3. Remove bulb from light assembly by pulling bulb straight out of bulb holder.
- 4. Install new bulb into bulb holder by pressing it in and rotating the bulb holder clock wise.
- 5. Push light assembly back into aperture.



Rear brake, tail, turn signal, reverse lights and fog tail light

- 1. Open the tailgate and remove 2 screws and light assembly.
- 2. Remove bulb holder by rotating it antic lock wise.
- 3. Remove bulb from bulb holder by pressing the bulb in and rotating it antic lock wise.
- 4. Install new bulb into bulb holder.
- 5. Reinstall bulb holder into light assembly. Rotate bulb holder clockwise and ensure it is secure.

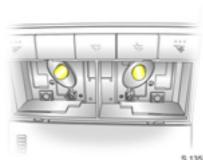


- 6. Replace light assembly by guiding lugs on light assembly into their holes (see black arrows in illustration).
- 7. Replace 2 screws removed earlier and close the tailgate.



Number plate lights

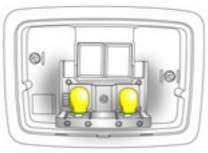
- 1. Remove 4 screws (arrowed) and remove light covers.
- 2. Remove bulb holder from light assembly by rotating it antic lock wise.
- 3. Pull bulb straight out of bulb holder.
- 4. Install new bulb.
- 5. Reinstall bulb holder into light assembly, rotate bulb holder clockwise and ensure it is secure.
- 6. Replace light covers using 4 screws removed earlier.



\$ 13531

Front reading lights

- 1. Using a suitable screwdriver, pry light lens away from roof lining.
- 2. Remove bulb.
- 3. Install new bulb.
- 4. Reinstall light lens in roof lining.





Rear interior lights

- 1. Using a suitable screwdriver, pry light lens away from roof lining.
- 2. Remove bulb.
- 3. Install new bulb.
- 4. Reinstall light lens in roof lining.



Lugg age compartment lights 🛠

- 1. Using a suitable screwdriver, remove lens from light assembly.
- 2. Remove bulb.
- 3. Install new bulb.
- 4. Reinstall lens to light assembly.



Front door lights

- 1. Using a suitable screwdriver, pry light lens away from front door trim.
- 2. Remove bulb.
- 3. Install new bulb.
- 4. Reinstall light lens to front door trim.

Centre high-mounted stop light, instrument panel and glove compartment illumination

We recommend having bulb replacements carried out by a workshop.

Vauxhall genuine parts and accessories

We recommend the use of "Vauxhall genuine parts and accessories" and conversion parts released expressly for your vehicle type. These parts have undergone special tests to establish their reliability, safety and specific suitability for your vehicle. Despite continuous market monitoring, we cannot a ssess or guarantee these attributes for other products, even if they have been granted approval by the relevant authorities or in some other form.

"Vauxhall genuine parts and accessories" and conversion parts approved by Vauxhall can be obtained from your Vauxhall Authorised Repairer, who can provide comprehensive advice about permitted technical changes and ensure that the part is installed correctly.



A note on safety

To avoid the possibility of injury, only carry out engine compartment checks (e.g. checking the brake fluid level or the engine oil level) when the ignition is switched off.

∆Warning

The cooling fan may be operated by a thermoswitch and can therefore start to operate unexpectedly, even when the ignition is switched off; risk of injury.

Electronic ignition systems generate very high voltages. Do not touch the ignition system; high voltage can be fatal. Never carry out any repairs or adjustment and maintenance work on the vehicle yourself. This especially applies to the engine, chassis and safety parts. You may, out of ignorance, infringe the provisions of the law and, by not performing the work properly, you may endanger yourself and other road users.

Checking and topping up fluids

To aid identification, the engine oil filler cap, the coolant filler cap, the lid of the fluid container for the windscreen wash system and the handle of the engine oil gauge (dipstick) may be coloured yellow.

Engine oil

Information on engine oils is available on page 206.

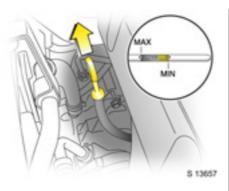
Engine oil level and consumption

It is normal for every engine to consume some oil, and it is sometimes necessary to check and top up the engine oil level between oil changes.

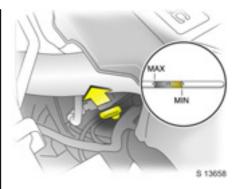
∕∆Warning

Do not allow the engine oil level to drop below the minimum level.

For this reason, the engine oil level should be checked every 300 miles (500 km) or before starting a long trip.



The illustrations show checking and replenishing the engine oil in the Z 24 petrol engine and the Z 20 diesel engine respectively.



To check the level, remove dipstick from the dipstick tube, wip e it clean and re-insert it as far as it will go. After pulling the dipstick out again, check the oil level, ensuring it is between the lower and upper (or MIN and MAX) marks.



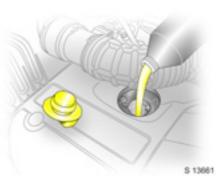
S 13660

Engine oil level check and topping up

The engine oil level must be checked with the vehicle horizontal and with the engine (which must be at operating temperature) switched off. Wait a few minutes before checking the level to allow the normal oil accumulation in the engine to drain back into the oil pan.

Top up if the engine oil level has dropped to the "add oil" low er mark (or **MIN** mark).

The oil level must not go above the upper (or MAX) mark on the dipstick. This would lead, for example, to increased oil consumption, excessive formation of carbon residue and a possible risk of damage to the catalytic converter or the engine.



When replenishing, attempt to use the same type of engine oil as used at the last oil change.

Capacities - see page 218.

A stabilization of the engine oil consumption will not take place until the vehicle has been driven several thousand miles / kilometres. Only then can the actual degree of oil consumption be established.

If oil consumption exceeds more than 0.6 litres every 600 miles (1000 km) after this running-in period, consult a workshop.

∆Warning

Important: It is the owner's responsibility to maintain the correct level of an appropriate quality oil in the engine.

Engine oil change, oil filter change

Engine oil changes are to be carried out depending on time intervals or mileage / kilometre intervals, since oil loses its lubrication properties not only through engine operation but also through ageing.

We recommend that you use genuine Vauxhall oil filters.

⚠Warning

Used engine oil filters and empty oil containers should not be disposed of as domestic refuse. We recommend that you entrust oil and oil filter changes to a work shop who is familiar with legal requirements regarding disposal of used oil and can thus help to protect both the environment and your health.

Engine oil is a danger to health; avoid prolonged contact with skin and wash exposed areas thoroug hly.

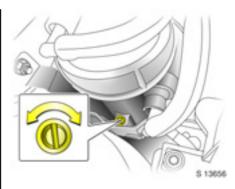
Remember to reset the engine oil life monitor ***** whenever the engine oil is changed - see page 190.

Engine oil life monitor 🛠

The engine oil life monitor lets you know when to change the oil. Based on driving conditions, the mileage / kilometre interval at which a n oil change will be indicated can vary considerably.

For the system to work properly, it must be reset every time the oil is changed. Consult a workshop.

When the system has calculated that oil life has been diminished, control indicator illuminates in the instrument cluster see page 69. Engine oil needs changing within approx. 600 miles (1000 km). Engine power may be decreased.



Diesel fuel filter

Drain diesel fuel filter of residual water at every engine oil change.

Place a container underneath the filter housing. Turn drain plug, located on the left of the filter housing, anticlockwise using a suitable screwdriver, to drain off the water.

The filter is drained as soon as diesel fuel emerges from the port. Retighten the drain plug by turning it clockwise.

With engine switched off, turn ignition key to ON, wait approx. 5 seconds, and turn key to LOCK to perform priming operation. Perform this operation 3 times or more while the engine is switched off, to a void air entering the fuel line. Check diesel fuel filter at shorter intervals if the vehicle is subjected to extrem e operating conditions such as high humidity (primarily in coastal areas), extrem ely high or low outside temperatures and sub stantially varying day time and nighttime temperatures.

If there is water in the diesel fuel filter, control indicator $\widehat{\Psi}$ illuminates in the instrument cluster - see page 69. Drain the water immediately.

Coolant

During operation, the system is pressurized. The temperature may therefore rise to over 100 °C.

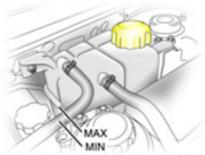
The anti-freeze provides excellent corrosion protection for the cooling and heating system, as well as freeze protection down to -28 °C.

Certain types of anti-freeze can lead to engine damage. We therefore strongly recommend the use of anti-freeze that has been approved by Vauxhall.

∆Warning

Anti-freeze is a danger to health: it must therefore be kept in the original container and out of the reach of children. Anti-freeze and corrosion protection Before the start of the cold weather season, have the coolant checked for correct concentration by a workshop. The amount of anti-freeze must provide protection down to a pprox. –28 °C. If the anti-freeze concentration is too low, this reduces protection from freezing and corrosion. Top up anti-freeze if necessary.

If coolant loss is topped up with demineralised water, have anti-freeze concentration checked and more antifreeze added as necessary.



Coolant level

Hardly any losses occur since the cooling system is sealed and it is thus rarely necessary to top up the coolant.

The coolant level in the expansion tank should be between the MIN and MAX marks when the system is cold.

∆Warning

Allow engine to cool down before removing coolant filler cap. If steam is visible, move away from the vehicle until the engine is cool.

Remove coolant filler cap carefully so that pressure can escape slowly, otherwise there is a risk of scalding.

When the engine is at operating temperature, coolant level rises. It falls again when the system cools. If it falls below the **MIN** mark when the system is cold, the coolant must be replenished.

Top up anti-freeze. If no anti-freeze is available, top up with clean tap water. If tap water is unavailable, distilled water can be used.

When you top up with tap water or distilled water, add concentrated anti-freeze and possibly mix in anti-freeze as well. Have the cause of the coolant loss eliminated by a work shop.

Too low a coolant level can cause engine damage.

When closing, tighten coolant filler cap as far as it will go.

Cool ant temperature

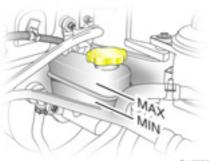
Control indicator £ illuminates when coolant temperature is too high. Check coolant level:

Coolant level low:

Top up coolant. Pay attention to the instructions given under "Anti-freeze and corrosion protection" and "Coolant level". Have the cause of the coolant loss remedied by a workshop.

Coolant level OK:

Have the cause of increased coolant temperature remedied by a work shop.



Brake fluid Brake fluid level

▲Warning

Caution - brake fluid is poisonous and corrosive. Do not allow it to contact eyes, skin, fabrics or painted surfaces; direct contact may cause injuries and damage. The brake fluid level in the reservoir must not be higher than the **MAX** mark or lower than the **MIN** mark.

Do not overfill the brake fluid reservoir, as this may cause an engine fire due to fluid buming; risk of injury and damage to the vehicle.

Use of some brake fluids could cause damage or impair braking effectiveness. Stay well informed. We recommend that you use Vauxhall-approved high performance brake fluid.

Extreme cleanliness is important, since brake fluid contamination can lead to brake system malfunctions.

If brake fluid level is too low, brake system control indicator (D)(D) illuminates in the instrument cluster - see page 66.

After correcting the brake fluid level, have the cause of the loss remedied by a work shop.

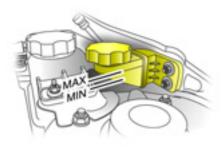
Brake fluid change

As brake fluid is hygroscopic, it absorbs water. Vapour bubbles which impair the braking effect may occur during braking.

The fluid change interva's specified in the chapter "Service, Maintenance" on page 202 must therefore be observed.

∆Warning

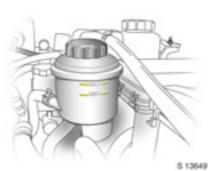
We recommend that you have brake fluid changed by a work shop, who will be familiar with the requirements of the law as regards disposal of brake fluid and can thus help to protect the environment and your health.



Clutch fluid 🛠

The clutch fluid does not require any additional maintenance than that detailed in the chapter "Service, Maintenance" on page 202.

If the fluid in the reservoir falls below the **MIN** mark, consult a workshop.



Power steering fluid

The power steering fluid does not require any additional maintenance than that detailed in the chapter "Service, Maintenance" on page 202.

If the fluid in the reservoir falls below the **MIN** mark, consult a workshop.

Windscreen wiper

Clear vision is essential for safe driving.

Perform regular checks on the wiper to ensure it is operating correctly. We recommend wiper blade replacement at least once a year.

If the windscreen is dirty, operate the windscreen wash system before switching on the wiper or setting the wiper to automatic operation with the rain sensor **%**. This will avoid wiper blade wear.

Do not switch on the windscreen wiper if the windscreen is dry or obstructed (e.g. with snow orice), as this could damage the glass, the wiper blades, or the wiper system.

If the wiper becomes frozen on to the glass, we recommend that it be released with the aid of Vauxhall De-icer Spray before starting the vehicle, to prevent wiper motor dam age.

Smearing wiper blades can be cleaned with a soft cloth and Vauxhall Windscreen Wash Solvent.

Wiper blades whose lips have become hardened, cracked or covered with silicone must be replaced. This may be necessary as a result of the effects of ice, thawing salt or heat, or the incorrect use of cleaning agents.

Switch off the wiper in car washes – see pages 88 and 198.

Wiper care - see page 200

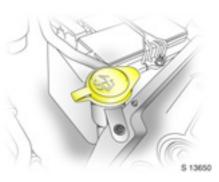


To ensure proper operation of the rain sensor *, the sensor area must be free from dust, dirt and ice, which is why the windscreen wash system must be operated at regular intervals and the sensor area deiced. Vehicles with rain sensor can be identified by the sensor area near the top of the windscreen.



Replacing windscreen wiper Lift wiper arm, press and hold retaining clip

and detach wiper blade.



Windscreen wash system

Do not spray wash fluid onto windscreen in freezing weather, to avoid ice forming and impairing vision.

The filler opening of the fluid container for the windscreen wash system is located in the front of the engine compartment.

Fill only with commercially available, ready-to-use windscreen wash fluid. Do not use tap water, as minerals will cause clogging in the system.

196 Self-help, vehicle care

In cold weather, do not fill the windscreen wash fluid reservoir more than threequarters full, to allow enough room for expansion if the fluid freezes, and to prevent damage to the reservoir.

In freezing conditions, use windscreen wash fluid with sufficient antifreezing properties. Do not use coolant anti-freeze or tap water, to avoid freezing the solution and da maging the wind screen wash system.

When closing the container, press the lid down firmly all the way round.

If the fluid in the windscreen wash fluid reservoir is too low, control indicator illuminates in the instrument cluster see page 69. Top up wash fluid as soon as possible.



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Battery

The battery is maintenance-free.

∆Warning

We recommend that you have battery changes carried out by a workshop who knows the laws concerning the disposal of used batteries, therefore protecting the environment and your health.

Retro-fitted electrical or electronic accessories can place an additional load on the battery or discharge the battery. Consult a workshop regarding technical possibilities, such as fitting a more powerful battery. Laying up the vehicle for more than 6 weeks can lead to battery discharge, which may reduce the service life of the battery. Disconnect battery from on-board power supply by detaching negative terminal.

The Vauxhall alarm system ***** siren must be deactivated as follows: switch the ignition on then off, disconnect the vehicle's battery within 15 seconds.

Ensure that ignition is switched off before connecting the battery. Then perform the following actions:

- Set date and time in the information display see pages 76, 82.
- If necessary, activate the electric windows and sunroof ⅔ see pages 28, 30.

In order to prevent the battery from discharging, some consumers such as the courtesy lights automatically switch off after a delay.

∆Warning

Ensure there is a dequate ventilation when charging the battery. There is a risk of explosion if gases generated during charging are a lowed to accumulate.

Battery acid is poisonous and corrosive. Do not allow it to contact eyes, skin, fabrics or painted surfaces; direct contact may cause injuries and damage.

Avoid dealing with the battery near naked flames and anything that would generate sparks. No smoking!

Charge a disconnected battery every 6 weeks.



Protection of electronic components

In order to avoid the breakdown of electronic components within the electrical system, never disconnect the battery with the engine running. Never start the engine while the battery is disconnected (e.g. when using jump leads).

To avoid damaging the vehicle, do not make any modifications to the electrical system, e.g. connecting additional consumers or tampering with electronic control units (chip tuning).

∆Warning

Electronic ignition systems generate very high voltages. Do not touch the ignition system; high voltage can be fatal.

Disconnecting / connecting the battery from/to the electrical system

Disconnect the battery from the vehicle electrical system before charging: first detach the negative and then the positive lead.

Do not reverse the polarity of the battery, i.e. do not confuse the terminals for the positive and negative leads. When connecting, start with the positive lead and then connect the negative lead.

Vehicle storage

If your vehicle is to be stored for long periods without use, we recommend you consult a workshop for advice.

Vehicle care

In caring for your vehicle, observe all national environmental regulations, particularly when washing your vehicle.

Regular, thorough care contributes to improving the appearance of your vehicle and maintaining its value. It is also a prerequisite for claims made under the warranty, in the event of paint or corrosion dam age. In the following pages, we give you tips for vehicle care which, with correct use, will help to ward off unavoidable and harmful environmental influences.

Vehicle care aids 🛠

Vehicle wash:

- Car Shampoo
- Sponges
- Chamois Leather
- Wheel Cleaners
- Engine Cleaners
- Glass Cleaners

Exterior care:

- Touch-up Applicator
- Spray and Touch-up Paint
- Car Polishes / Colour Restorers
- Car Waxes / Sealers
- Alloy Wheel Cleaner
- Alloy Wheel Preserver
- Metallic Paintwork Wax
- Rust Preventative
- Lubricant Sprays
- Lock Cylinder Grease
- De-icer Sprays
- Insect Remover
- Window Cleaning Spray
- Windscreen Wash Solvent

Interior care:

■ Interior / Upholstery Cleaner

Washing

The paintwork of your vehicle is exposed to environmental influences, e.g. continuous changes in weather conditions, industrial waste gases and dust or thawing salts, so wash and wax your vehicle regularly. When using automatic car washes, select a programme which includes waxing.

Bird droppings, dead insects, resin, pollen and the like should be cleaned off immediately, as they contain aggressive constituents which can cause paint damage.

If using a car wash, comply with the pertinent instructions of the car wash manufacturer. The windscreen wiper and tailgate wiper must be switched off – see pages 11, 12. Remove detachable rod antenna by unscrewing it.

Do not use high-pressure jet cleaners.

If you wash your vehicle by hand, make sure that the insides of the wings are also thoroughly rinsed out. Do not use household dishwashing liquid, to avoid removing wax from the paintwork. Clean edges and folds on opened doors and flaps as well as the areas they cover.

Thoroughly rinse off and leather-off the vehicle. Rinse leather frequently. Use separate leathers for paint and window surfaces; remnants of wax on the windows will impair vision.

Also wash a luminium trim parts, avoiding the use of abrasive materials such as automotive or chrome polish, steam or caustic soap. Washing with water is normally sufficient.

Observe national regulations.

Waxing

Wax your vehicle regularly, in particular after it has been washed using Car Shampoo and at the latest when water no longer forms beads on the paintwork, otherwise the paintwork will dry out.

Also wax aluminium trim parts, edges and folds on opened doors and flaps as well as the areas they cover.

Polishing

Polishing is necessary only if the paint has become dull or if solid deposits have become attached to it.

Paintwork polish with silicone forms a protective film, making waxing unnecessary.

Plastic body parts should not be treated with wax and polish.

Use Metallic Paintwork Wax on vehicles with a metallic-effect paint finish.

Wheels

Use a pH-neutral wheel cleaning a gent to clean the wheels.

Avoid using a brasive materials and brushes that can damage the finish.

Wheels are painted and can be treated with the same agents as the body. For a lby wheels, we recommend the use of Alloy Wheel Preserver.

Paintwork damage

Repair small areas of paint damage such as stone impacts, scratches etc. immediately, using a Vauxhall Touch-up Applicator or Vauxhall Spray and Touchup Paint before rust can form. If rust has already formed, have the cause remedied by a workshop. Please also pay attention to surfaces and edges beneath the vehicle where rust may have formed unnoticed for some time.

Exterior lights

Headlight and other protective light bezels are made of plastic. If they require additional cleaning after the vehicle has been washed, clean them with Car Shampoo. Do not use any abrasive or caustic agents, do not use an ice scraper, and do not clean them dry.

Plastic and rubber parts

For additional cleaning of plastic and rubber parts, use a cleaner suitable for vehicle interiors. Do not use any other agent, and in particular do not use solvents or petrol.

Wheels and tyres

Do not use high-pressure jet cleaners on wheels and tyres.

Interior and upholstery

Clean the vehicle interior regularly, including the instrument panel facia, using Interior / Upholstery Cleaner.

Clean fabric upholstery with a vacuum cleaner and brush. To remove stains, use a cleaner that is suitable for both fabrics and vinyl.

Open Velcro fasteners on clothing could damage seat upholstery. Make sure that Velcro fasteners are closed.

Do not use cleaning agents such as acetone, carb on tetrachloride, paint thinner, paint remover, nail varnish remover, washing powder or bleach to clean fabrics, carpets, the instrument panel or lea ther trim * in the vehicle interior. Benzine, petrol, naphtha, ena mel reducers and lacquer thinners are also unsuitable. Avoid over-exposure to vapours from cleaning agents and other chemicals when cleaning. Whenever possible, avoid using such cleaning agents in small, unventilated spaces, to avoid inhalation of dangerous vapours. Open the doors.

If the front seats are equipped with side airbags *, do not use chemical solvents or strong detergents on the seat covers.

Do not saturate the seat covers with Interior / Upholstery Cleaner, to avoid contaminating the airbag system, otherwise the side airbags * may not trigger in the event of a collision.

Seat belts

Always keep seat belts clean and dry.

Clean seat belts only with lukewarm water or Interior / Upholstery Cleaner.

Periodically check the seat belts and replace immediately with new seat belts if damage or weakening of the belts has occurred.

Windows

When cleaning the heated rear window, make sure that the heating element on the inside of the window is not damaged. Never place stickers on the inside of the rear window.

Use a soft, lint-free cloth or chamois leather, in conjunction with Window Cleaning Spray and Insect Remover. Do not use sharp instruments or abrasive cleaners.

Vauxhall Windscreen Wash Solvent is suitable for de-icing windows.

For mechanical removal of ice, use a commercially available sharp-edged ice scraper. Press the scraper firmly against the glass so that no dirt can get under it and scratch the glass.

Windscreen wiper blades

Wax, such as that used in car washes, can cause streaks to form on the windscreen when the wiper is used.

Smearing wiper blades can be cleaned with a soft cloth and Vauxhall Windscreen Wash Solvent, and replaced if necessary – see page 194. Do not use abrasive cleaners.

Locks

The locks are lubricated with a high-grade lock cylinder grease at the factory. Vauxhall Lock Cylinder Grease prevents the locks from freezing up.

Only use de-icing agents in emergencies, as they have a degreasing effect and will impair the function of the locks. After using a de-icing a gent, have the locks regreased by a workshop.

Engine compartment

Areas of the engine compartment that are painted in the same colour as the vehicle must be looked after like any other painted surface.

It is advisable to wash the engine compartment before and after winter and preserve it with wax. Cover alternator and fluid reservoirs with plastic sheets before washing the engine.

When washing the engine with a steam-jet cleaner, do not direct the steam-jet at components of the Anti-lock Brake System (ABS), the air conditioning system or the belt drive and its components. Protective wax that has been applied is also removed during the engine wash. For this reason, have the engine, brake system components in the engine compartment, axle components with steering, body parts and cavities thoroughly preserved with protective wax after the wash.

An engine wash can be performed in the spring in order to remove dirt that has adhered to the engine compartment, which may also have a high salt content. Check protective wax layer and make good if necessary.

Underbody

Your vehicle has a factory-applied PVC undercoating in the wheel arches (including the longitudinal members) which provides permanent protection and needs no special maintenance. The surfaces of the vehicle underbody not covered by PVC are provided with a durable protective wax coating in critical areas.

On vehicles which are washed frequently in automatic car washes with underbody washing facility, the protective wax coating may be impaired by dirt-dissolving additives. Check the underbody after washing and have it waxed if necessary. Before the start of the cold weather season, check the PVC coating and protective wax coating and, if necessary, have them restored to perfect condition. Caution – commercially a vailable bitumen / rubber materials can damage the PVC coating. We recommend that you have underbody work carried out by a workshop, who knows the prescribed materials and has experience in the use thereof.

The underbody should be washed following the end of the cold weather season to remove any dirt adhering to the underbody since this may also contain salt. Check protective wax coating and, if necessary, have it restored to perfect condition.

Service, maintenance

Service schedule	203
Additional servicing	205
Recommended fluids and lubricants	205

Service intervals

Engine oil change - Z 24 XE only Due every 10,000 miles (15,000 km).

Main Service Due every 20,000 miles (30,000 km) or 1 year, whichever occurs first.

Confirmations

Confirmation of Service is recorded in the spaces provided in the Service and Warranty Booklet. The date and mileage/ kilometre reading is completed with the stamp and signature of the servicing workshop.

Make sure that the Service and Warranty Booklet is completed correctly as continuous proof of service is essential if any warranty or goodwill claims are to be met, and is a so a benefit when you come to sell the vehicle.

Service schedule

(Antara Z 20 DMH, Z 24 XE)

Se	ervice operations by year ¹⁾		1		2		3
	miles (x 1000) ¹⁾	10	20	30	40	50	60
	4 km (x 1000) ¹⁾	15	30	45	60	75	90
Co	ontrols, lighting, signalling equipment and airbags: visual check		х		x		х
st	eering column lock and ignition lock: check						
Re	emote control batteries: replace			Every	2 years		
W	'ind screen wiper, windscreen wash system: check, correct		×		x		x
Co	polant level and anti-freeze: check, correct		х		x		х
H	oses: check for tightness and secure seating						
Br	rake fluid level: check, correct		х		x		х
Bo	attery terminals: check for secure connections and battery eye		х		x		х
V	ehicle system check with TECH2		x		x		х
Po	ollen filter: replace		х		x		х
• M	ore often for when dust, sand or pollen is in the air		Agı	reement w	vith custo	mer	
A	ir cleaner element: replace		x		x		х
⊕ Sp	park plugs and plug leads: replace	Every 60,000 miles/90,000 km		00 km			
Ri	bbed V-belt: visual check		х		x		х
⊕ To	pothed belt and tension roller: visual check		×		x		х
Т	oothed belt and tension roller: replace - Z 24 XE	Every 8 years/80,000 miles/120,000 km					
Т	oothed belt and tension roller: replace - Z 20 DMH	Every 6 years/60,000 mile\$ 90,000 km					
Po	ower steering system: check for leaks. Fluid level: check, correct		x		×		х
Er	ngine oil and oil filter: replace - fixed interval Z 24 XE ²⁾	х	x	x	×	x	х
Z	20 DMH except ²⁾		x		x		х

¹⁾ Whichever occurs first.
 ²⁾ On vehicles with oil life monitoring, it may be necessary to change the engine oil earlier (control indicator illuminates).

	Service operations by year 1)		1		2		3
	miles (x 1000) ¹	10	20	30	40	50	60
	4 km (x 1000) ¹⁾	15	30	45	60	75	90
\oplus	Diesel fuel filter: drain water			Ann	ually		
•	(If relative humidity is high and/or fuel is of lower quality)						
	Fuel filter: replace and drain water - diesel (grade EN 590)	Every 2 years/40,000 miles/60,000 km					
	Handbrake: check and adjust		х		x		х
	Wheel mounting and suspension front and rear, brake lines, brake pressure						
	hoses, fuel lines and exhaust system: visual check						
	Anti-perforation inspection: check and record in Service and Warranty	Annually					
	Booklet						
	Front and rear wheel brakes: check visually		х		x		х
•	⊕ Annual service check if annual mileage exceeds 12,000 miles (20,000 km)		Annually				
	Engine, transmission, PTO, rear differential, A/C compressor: check for leaks		х		x		х
	Steering system boots, track rods, final drive: visual check		x		×		x
	Track rod end and supporting ball joint: check		х		x		х
\oplus	Brake and clutch fluid: change		4	Every	very 2 years		
	Wheel fastening: loosen and tighten to torque		х		x		х
	Tyre condition and pressures: check, correct						
\oplus	Annual service check if annual mileage exceeds 12,000 miles (20,000 km)		•	Ann	ually	•	•
	First aid kit, tyre repair kit and lashing eyes: visual check	Every 2 years					
	Headlight aiming: check, adjust		x		×		х
	Door hinges, door stop, lock cylinder, lock striker, bonnet catch, tailgate hinges and check links: lubricate		x		x		x
	Test drive, final check Service interval display and engine oil life monitor: reset - if applica ble		x		x		x

¹⁾ Whichever occurs first.

Additional operations.
 Under extreme operating conditions and if required by country-specific conditions, the intervals are reduced.

Additional servicing

Additional operations \oplus

Additional work is work that is not required every service but can be performed in conjunction with a regular service.

Time allowances for such work are not included in the scope of regular services and will be charged for additionally. It is more economic if these operations are performed as part of a scheduled service than having them performed separately.

Severe operating conditions ●

Operating conditions are classified as severe when one or more of the following occurs frequently:

- cold starts,
- stop and go,
- trailer/caravan towing,
- gradients and/or high altitudes,
- poor road surfaces,
- sand and dust,
- extreme temperature fluctuations.

Police vehicles, taxis and driving school vehicles are also classified as operating under severe conditions.

Under severe operating conditions, it may be necessary to have certain scheduled service work done more frequently than the scheduled intervals.

For example, if fuel is used that does not comply with required standards, the fuel filter may need more frequent draining or replacement and it may also be necessary to change other components more often (e.g. spark plugs).

It is recommended to seek technical a dvice on the servicing requirements dependent on the specific operating conditions of your vehicle.

Recommended fluids and lubricants

Only use products that have been tested and approved. Damage resulting from the use of non-approved materials will not be covered by the warranty.

∆Warning

Operating materials are hazardous and must be handled with the appropriate level of care. If consumed, seek medical attention immediately. Do not inhale fumes and avoid skin contact. Keep out of reach of children. Do not allow operating materials to contamina te the sewage system, surface water, ground water or soil. Dispose of empty containers properly. Always bear in mind that operating materials are hazardous to your health.

Checking and topping up fluids see page 187.

Engine oil

Engine oil is identified by its quality and also its viscosity. Quality is more important than viscosity when selecting which engine oil to use.

Engine oil quality Oil specifications

GM-LL-A-025:	Petrol engines
GM-LL-B-025:	Diesel engines without DPF
ACEA-C3:	Diesel engines with DPF

GM	General Motors Europe
LL	Longlife
A or B	Engine oil quality specification
025	Validity index

Vauxhall engine oil meets classifications GM-LL-A-025 and GM-LL-B-025 and is therefore suitable for both petrol and diesel engines.

Topping up engine oil

Oils of different manufacturers and brands can be mixed as long as you comply with the specified engine oil criteria (quality and viscosity).

Not every engine oil available on the market meets the quality requirements, always check the required specification and rating is marked on the container.

If engine oil of the required quality is not available, a maximum of 1 litre of ACEA A3/B4 or A3/B3 grade may be used (only once between each oil change). The viscosity should be of the correct rating.

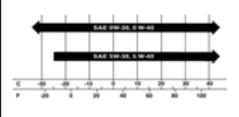
Use of ACEA A1/B1 and A5/B5 engine oil is expressly forbidden, since they can cause long-term engine damage under certain operating conditions.

Engine oil additives

The use of engine oil additives could cause damage and invalidate the warranty.

Engine oil viscosity

SAE 0W-30, 0W-40, 5W-30 or 5W-40.



\$ 17639

The SAE viscosity rating defines the ability of an oil to flow. When cold, oil is more viscous than when hot.

Multigrade oil is indicated by two figures. The first figure, followed by a W, indicates low temperature viscosity and the second figure the high temperature viscosity.

Coolant and anti-freeze

Use anti-freeze of recommended specification: silicate-free LLC (Long Life Coolant).

The system is factory-filled with coolant designed for frost protection down to approx. -28 °C. This concentration should be maintained all year-round.

Coolant additives intended to give additional corrosion protection or seal against minor leaks can cause function problems. Liability for consequences resulting from the use of coolant additives will be rejected.

Brake and clutch fluid

Only use DOT4 brake fluid.

∆Warning

Brake fluid is poisonous!

Over time, brake fluid absorbs moisture which will reduce braking effectiveness. The brake fluid should therefore be replaced at the specified interval.

Brake fluid should be stored in a sealed container to avoid water absorption.

Ensure it does not become contaminated with fluids containing mineral oil (oil, petrol, cleaner) as this can damage the seals and skeves of the brake system.

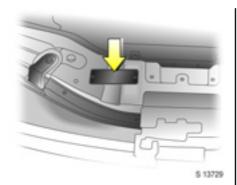
∆Warning

Due to its corrosive nature, brake fluid must not come in contact with the paintwork. Flush a ny escaped brake fluid with plenty of water.

Technical data

Vehicle documents,

identification plate	208
Coolant, brake fluid, oils	209
Engine data	210
Performance	211
Fuel consumption, CO ₂ emissions	212
Weights, payload and roof load	214
Tyres	216
Electrical system	218
Capacities	218
Dimensions	219
Mounting dimensions of caravan /	
trailer towing equipment	220

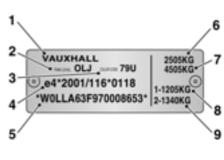


Vehicle documents, identification plate

The technical data is determined in accordance with European Community standards. We reserve the right to make modifications. Specifications in the vehicle documents always have priority over those given in this manual.

The Vehicle Identification Number (VIN) is on the vehicle identification plate, attached to the top of the front panel support, visible when the bonnet is open.

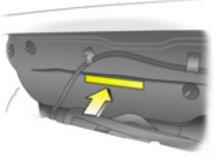
The vehicle identification plate may also list, in kilograms, the Gross Vehicle Weight (GVW), the Gross Train Weight (GTW) and the maximum front and rear axle loads respectively. Observe these limits when using the full load or towing capacity of your vehicle.



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Information on identification plate¹):

- 1 Manufacturer
- **2** Trim level
- 3 Colour code
- 4 Type approval number
- 5 Vehicle Identification Number
- 6 Permissible Gross Vehicle Weight
- 7 Permissible Gross Train Weight
- 8 Maximum permissible front axle load
- 9 Maximum permissible rear axle load



The Vehicle Identification Number (VIN) is also engraved on the top right-hand side of the bulkhead near the centre of the engine firewall.

Engine identifier code and engine number. stamped on the cylinder block under the engine's exhaust manifold (petrol engines), or the intake manifold (diesel engines).

Coolant, brake fluid, oils

Use approved fluids only.

Use of unsuitable fluids could cause serious damage to the vehicle.

Engine oils

Information on engine oils is available on page 206.

210 Technical data

Engine data

Sales designation Engine stamp Engine identifier code	2.4 Petrol Z 24 SE Z 24 XE	2.0 Diesel Z 20 S Z 20 DM H
Number of cylinders	4	4
Bore dia. (mm)	87.5	83.0
Stroke (mm)	100.0	92.0
Piston displacement (cm ³)	2405	1991
Max.engine power (kW) at rpm	103 5200	1 10 4 00 0
Torque (Nm) at rpm	220 2400	320 2000
Compression ratio	9.6	17.5
Fuel type	Petrol	Diesel
Cetane requirement (CN)	-	49 (D) ¹⁾
Octane requirement (RON) ²⁾ unleaded or unleaded	91 ³⁾⁴⁾ 95 ³⁾	-
Max. permissible engine speed, continuous operation (rpm) approx.	6200	4750 ⁵⁾ /4500 ⁶⁾
Engine oil consumption (l/1000 km)	0.6	0.6

¹⁾ Standard high-quality fuels: D = Diesel.

²⁾ Standard high-quality fuels, e.g. unleaded DIN EN 228; value printed in bold: recommended fuel.

³⁾ Knock controlsystem automatically adjusts ignition timing according to type of fuel used (octane number).

⁴⁾ Use of 91 RON fuel reduces power and torque. If no un leaded Premium fuel is available, 91 RON can be used, taking care to avoid high engine load or full load as well as driving in mountainous terrain with a caravan / trailer load or high payload.

⁵⁾ Manual transmission.

⁶⁾ Automatic transmission.

Performance

(approx. mph / km/h)

Engine ¹⁾	Z 24 XE	Z 20 DMH
Maximum speed ²⁾ Manual transmission Automatic transmission	109/175 -	1 1 2/1 80 1 1 1/1 78

Sales designation - see page 210.
 The maximum speed indicated is achievable at kerbweight (without driver) plus 200 kg payload. Optional equipment could reduce the specified maximum speed of the vehicle.

Fuel consumption, CO₂ emissions

Directive 80/1268/EEC (last changed by 2004/3/EG) has applied for the measurement of fuel consumption since 1996. The directive is oriented to actual driving practices: Urban driving is rated at approx. $1/_3$ and extra-urban driving with approx. $2/_3$ (urban and extra-urban consumption). Cold starts and acceleration phases are also taken into consideration.

The specification of CO_2 emission is also a constituent of the directive.

The figures given must not be taken as a guarantee for the actual fuel consumption of a particular vehicle.

All values are based on the EU base model with standard equipment.

The calculation of fuel consumption as specified by directive 2004/3/EG takes account of the vehicle's kerbweight, ascertained in accordance with these regulations. Optional extras may result in slightly higher fuel consumption and CO₂ emission levels than those quoted.

To convert l/100 km into mpg, divide 282 by number of litres/100 km.

Save fuel, protect the environment – see page 125.

Engine ¹⁾	Z 24 XE	Z 20 DM H	
Manual transmission / Automatic tra	ansmission		
urban	13.3/-	8.7/10.9	
extra-urban	7.3/ -	6.8/ 7.3	
total	9.6/ -	7.6/ 8.6	
CO	229/-	198/238	

Fuel consumption (approx. I/100 km), CO₂ emission (approx.g/km)

Weights, payload and roof load

The payload is the difference between the permissible Gross Vehicle Weight (see vehicle identification plate on page 208) and the EC kerbweight.

To calculate the EC kerbweight, enter the data from your vehicle below:

- Kerbweight from + kg page 215
- Weight of heavy accessories

+ kg

The total

=kg

is the EC kerbweight.

Optional equipment and accessories increase the kerbweight and in some cases also the permissible Gross Vehicle Weight, which means that the payload will also change slightly.

Note the weights given on the vehicle identification plate.

The combined total of front and rear axle loads must not exceed the permissible Gross Vehicle Weight. For example, if the front axle load is being fully utilized, the rear axle can only bear a load that is equal to the Gross Vehicle Weight minus the front axle load.

See the vehicle identification plate on page 208 or the vehicle documents for permissible axle loads.

Roof load

The maximum permissible roof load is 100 kg.

The roof load is the combined weight of the roof rack and the load.

Driving hints – page 123.

Roof racks, caravan and trailer towing - see page 149, 163.

Model	Engine ¹⁾	Kerbweight ²⁾³⁾ Ma nua I transmission	Kerbweig ht ³⁾ A ut omatic transmission
Exclusiv	Z 24 XE ⁴⁾	1805	-
	Z 20 DMH	1845	1865
SE	Z 20 DMH	1845	1865

Weights (kg), Kerbweights

Sales designation - see page 210.
 The Gross Train Weight (GTW), along with the Gross Vehicle Weight (GVW) are shown on the VIN plate - see page 208.
 With driver (75 kg) and all fluids (tank 90% full).
 Antara E models only.

Tyres Restrictions

Not all tyres available on the market currently meet the structural requirements. We recommend that you consult a Vauxhall Authorised Repairer concerning suitable tyre makes.

These tyres have undergone special tests to establish their reliability, safety and specific suitability for Vauxhall vehicles. Despite continuous market monitoring, we are unable to assess these attributes for other tyres, even if they have been granted approval by the relevant authorities or in some other form.

Further information - see page 145.

Winter tyres *

Tyres of size 235/55 R 18 are not to be used as winter tyres. Tyres of size 215/70 R 16, 235/60 R 17 and 235/65 R 17 may be used as winter tyres.

Use of the spare wheel may alter vehicle handling. Obtain a replacement for the faulty tyre as soon as possible, and have the wheel balanced and fitted to the vehicle.

Further information - see page 148.

Tyre chains

Restrictions

We recommend the use of Vauxhall-tested fine-mesh tyre chains that add no more than 15 mm to the tyre tread and the inboard sides (including chain lock).

Tyre chains are permitted only on tyres of size 215/70 R 16. We recommend you consult your Vauxhall Authorised Repairer.

Further information - see page 148.

Wheels

Wheel nut tightening torque: 125 Nm.

Tyre pressures in bar / psi¹⁾

The tyre pressures given are valid for cold tyres. The increased tyre pressure resulting from extensive driving must not be reduced.

The tyre pressures specified apply to both summer and winter tyres.

Always inflate the spare wheel to the tyre pressure for full load.

Further information - see pages 145 to 149.

		Tyre pressure for load of up to 4 persons		Tyre pressure for full load	
Engine ¹⁾	Tyres	Front	Rear	Front	Rear
Z 24 XE, Z 20 DMH	215/70 R 16, 235/60 R 17, 235/65 R 17, 235/55 R 18	2.1/30	2.1/30	2.3/33	2.4/35
AH	T 155/90 R 16 (temporary spare) ²⁾	4.1/59	4.1/59	4.1/59	4. 1/59

¹⁾ Sales designation - see page 210.
 ²⁾ For notes on the temporary spare wheel - see pages 149, 174.

218 Technical data

Electrical system

Engine ¹⁾		Z 24 XE	Z 20 DMH
Battery	Voltage	12 V	12 V
	Amp hours	60 Ah	90 Ah
Battery for radio frequency remote control		CR 2032 or equivalent	CR 2032 or equivalent

¹⁾ Sales designation - see page 210.

Capacities

(approx. in litres)

Engine ¹⁾	Z 24 XE	Z 20 DM H
Engine coolant	9.0	9.0
Fuel tank	65	65
Engine oil with filter change	4.7	6.2
Engine oil between MIN and MAX on dipstick	1.0	1.0
Wash fluid reservoir for windscreen and tailgate wash system	4.0	4.0
Wash fluid reservoir for windscreen, headlight and tailgate wash system	6.7	6.7

Dimensions

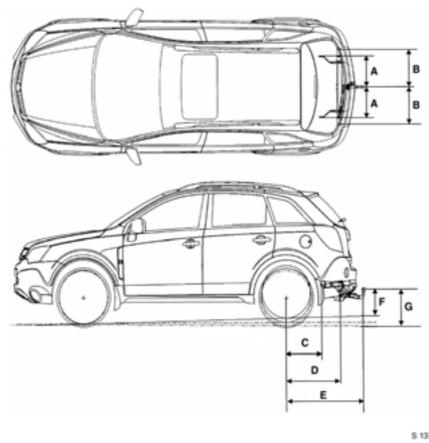
Overall length (mm)	4576
Width (mm)	1850
Overall height with roof rails (mm)	1747
Wheelbase (mm)	2707
Track width (mm): Front Rear	1562 1572
Turning circle diameter, wall to wall (m)	12.78
Maximum wading depth (mm) (at 3 mph (5 km/h))	450
Approach angle	24°
Ramp angle	17.6°
Departure angle	23°

Mounting dimensions of caravan / trailer towing equipment

Dimension	mm
Α	416
В	507
с	482
D	734
E	1039
F (fully laden)	353
G (at kerbweight)	446

∆Warning

Only use towing equipment approved for your vehicle. We recommend entrusting fitting of towing equipment at a later date to a workshop.



Index

Α Active Rollover Protection (ARP)134 Air recirculation mode 105 All Wheel Drive 117 Anti-freeze protection191, 195 Anti-knock quality of fuel 127 Towing equipment 162 Approach lighting90 Aqua planing 147 Automatic air recirculation108 Automatic anti-dazzle exterior mirrors . 27 Automatic anti-dazzle interior mirror 28

Automatic dipped beam activation 91
Automatic level control 93, 139
Automatic transmission14, 111
Automatic mode
Engine braking assistance 114 Fault 116
Interruption of power supply
Manual mode 113 Rocking the vehicle 115
Selector lever112 Transmission display112
Winter programme 113

В

Battery 196
Interruption of power supply
Battery discharge protection96
Before starting-off14
Belt force limiters40
Belt tensioners40
Belts
Bleeding, diesel fuel system167
Board Information Display 72, 74
Bonnet
Boot, see Luggage compartment
Brake assist 142
Brake fluid 207
Brake system 141
Brakes 141
ABS 144
Bra ke assist 142
Brake fluid 193
Bra ke lig hts 184
Brake servo unit 123
Footbrake 142
Handbrake 143
Bulb replacement
Bulbs 181

-
Capacities 218
Car Pass
Caravan / trailer towing
Card holder
Care 198
Catalytic converter129, 131, 168
Central locking system
Centre high-mounted stop light
Bulb replacement
Changing the battery
Remote control
Changing tyre / wheel type
Changing wheels
Chassis number, see Vehicle
Identification Number
Check control87
Child restraint system43, 54
Child safety locks
Cigarette lighter64
Cleaning
Climate control
Clock
Clutch fluid 194
Clutch operation 124
CO2 emissions
Coin storage63
Cold starts 124, 129
Colour Information Display
Console box
Console net
Contra st 83

Control indicators	
ABS	66, 144
Airbags	
All Wheel Drive	67, 117
Alternator	
Anti-theft alarm system	24, 25, 70
Automatic headlight range	
adjustment	
Automatic transmission	
Belt tensioners	
Brake system 6	6, 143, 193
Change engine oil	
Coolant temperature	
Cruise control	
Descent Control System6	57, 134, 135
Diesel particle filter	,
Doors	
Driver's seat belt reminder	
Electronic immobiliser	,
Electronic Stability Control	
Engine electronics	
Engine oil level	
Engine oil pressure	
Exhaust	,
Fog tail light	
Front fog lights	
Front passenger's seat belt re	
Fuellevel	
Headlight main beam	
Parking distance sensors	,
Power steering	
Preheating	
Tailgate	
Trailer	66

Control indicators
Transmission electronics
Turn signal lights 68
Water in diesel fuel 69, 191
Windscreen wash fluid
Winter programme70, 113
Coolant 191, 207, 209
Coolant level 192
Coolant temperature
Cooled glove compartment 101
Cooling
Correcting time82
Corrosion protection
Coupling socket load 164
Courtesy lights94
Bulb replacement 185
Switching off95
Cruise control 136
Curtain airbags51
D

Dashboard - see Instrument panel	6
Data	17, 208
Date	
Daytime running lights	
DCS (Descent Control System)	134
Demisting and defrosting	
Windows	13
With air conditioning system	104
With Electronic Climate Control	109
Descent Control System	134
Diesel	127
Diesel fuel filter	190
Diesel fuel system	67, 190

Diesel particle filter	69,131
Dip ped beam	10, 91
Bulb replacement	182
Display	
Display mode	
Door locks	2, 201
Doors	
Door-to-door lighting	
Drink holders	
Drive control systems	132
Driving abroad	96
Driving hints	123
E	

Economical driving	125
Electric exterior mirrors	5, 26
Electric sunroof	30
Electric windows	28
Child safety system	29
Safety function	
Electrical system	177
Electrically adjustable front seat	
Electronic Climate Control13,	99,107
Electronic components	197
Electronic immobiliser	18
Electronic Stability Control (ESC)	132
Engine braking assistance	114
Enginecode	09,210
Engine control indicator	130
Engine data	210

Engine oil
Additives
Topping up
Viscosity
Engine oil change 189
Engine oil filter change 189
Engine oil level and consumption 188
Engine oil life monitor
Engine oil pressure
Engine oils
Engine speed 71
Engine wash 201
Environmental protection190, 198
ESC (Electronic Stability Control)
Exhaust control indicator 130
Exhaust g ases
Exhaust system 131
Exterior lights 90
Exterior mirrors 26
F
-
Fan

Fan
Capacities
•
Engine oil level 188
Fuel
Ignition key
Opening the bonnet 167
Tyre pressure
Vehicledata
Windscreen wash system
First aid kit
Flat tyre 173
Flex-Fix system 150

224 Index

FlexOrganizer
Fog tail light92
Bulb replacement 184
Fold in exterior mirrors
Footbrake 142
Front airbags48
Front door lights96
Bulb replacement 186
Front fog lights
Bulb replacement 184
Front passenger's seat airbag
Front passenger's seat undertray62
Front reading lights
Bulb replacement 185
Front seat armrest
Fuel
Fuel consumption 125, 127, 212
Fuel filler cap 128
Fuel filter
Fuel gauge72
Fuel system, diesel 190
Fuse extractor
Fuses 177
-

G

Gears13
Generator, see Alternator70
Glasses compartment
Glove compartment
Bulb replacement 187
Cooling
Lighting 60, 96
Graphical Information Display
Gross Vehicle Weight 127, 163, 214

Н

11
Halogen headlight system181
Bulb replacement
Handbrake 15,143
Hazard warning lights
Head restraints 4, 35
Active head restraints
Head restraint position
Height adjustment 35
Head light a iming
Head light flash10, 91
Head light main beam10, 91
Bulb replacement
Control indicator
Head light range adjustment
Automatic
Manual
Head light switch 9, 90
Head light wash system
Anti-freeze protection
Capacities
Wash fluid reservoir 195
Head lig hts 9, 90
Bulb replacement
Daytime running lights
Driving abroad
Front fog lights
Warning device
Wiper activated lighting
Heated exterior mirrors
Heated front seats
Heated rear window 12,101
,

Heating
Exterior mirrors 101
Rear window 101
Seats 101
With air conditioning system103, 104
With Electronic Climate Control 108, 109
Heating the footwell 104
Height adjustment
Head restraints4, 35
Seat belts 43
Steering wheel9
High-pressure cleaners . 139, 163, 198, 199
Horn 11
Hydraulic Brake Assist (HBA)134

I

Identification plate	208
Ignition logic	76, 83
Ignition system	15
Immobiliser	18
Information display	72
Bulb replacement	187
Illumination	94
Infotainment system	97, 98
Inspection system	202
Instrument display	71
Instrument illumination	94
Bulb replacement	187
Instrument panel	6
Instruments	66
Interior lights	94
Front reading lights	95
Rear interior lights	95
Interior mirror	5, 27

226 Index

Interruption of power supply79, 86, 116 Selector lever lock
ſ
Jack 172
Jump leads 168
к
Key
Extending
Ignition lock 9
Locking doors 23, 24
Removing
Replacement keys
Starting9, 15
Kickdown113, 114
1
Langua ge selection
Lashing eyes
Leather trim
Level control system
Light switch
Lighting
Driving abroad96
Loa ding
Locking doors 21, 24
Locking from the inside21
Locks
Lubricants

Luggag e comp artm ent	
Bulb replacement	
Cover	
FlexOrganizer	
Lighting	
Loading	59,214
Locking	
Safety net	
Storage	
Under floor storage	
Lumbar support	

Μ

/*\
Main beam10, 91
Bulb replacement
Control indicator
Maintenance
Air conditioning 110
All Wheel Drive (AWD)
Anti-freeze protection
Battery
Brake fluid 193
Brakes
Catalytic converter 131
Clutch fluid194
Electronic Climate Control 110
Engine oil188
Exhaust 131
Fuel consumption
Power steering fluid 194
Tyre pressure146
Tyres 146
Windscreen wiper 194
Manual transmission

Mechanical anti-theft locking system	23
Mirrors	101
Misted windows104,	109
Mobile telephones	. 98
Muffler, see Exhaust system	131

Ν

Navigation system	82,	98
Neutral	13,	14
Number plate lights		
Bulb replacement	1	85

0

Octane numbers	210
Odometer	71
Oil	206
Additives	206
Topping up	206
Viscosity	
Oil change	
Oil filter change	
Oil level and consumption	
Oil life monitor	69, 190
Oil pressure	70
Oils	
Operating temperature	
Outside temperature	
Overrun	

Ρ

Paintwork damage 199
Parking
Parking distance sensors 138
Parking lights
Bulb replacement182, 183
Parts
Payload
Pedals 124
Performance
Petrol127, 210
Pinking 127
Pollen filter 110
Power outlets64
Power steering
Fluid
Preheating 15, 69
Pushing, towing 168

R

Radio97 Radio equipment (CB)98
Radio frequency remote control
Central locking system
Fault
Radio reception97
Rain sensor 11, 89, 194, 195 Rear interior lights
Bulb replacement 186
Rear light cluster92
Bulb replacement 184
Rear seat armrest

Rear seats
Folding backrests
Restoring back rests
Rear window wash system 12, 89, 195
Rear window wiper12, 89
Refuelling 128
Fuel filler ca p 128
Remote control
Central locking system
Fault
Replacement keys17
Reversing lights 92
Bulb replacement
Roof load
Roof racks126, 149
Running-in 123
Brakes

S

Safeguard against
unauthorised use
Safety
Safety accessories43, 64,173
Safety net 56
Saving energy 125
Saving fuel 125
Seat adjustment
Seat belts4, 38, 39,200
Driver's seat belt reminder
Front passenger's seat belt reminder 42
Height adjustment 43
Removing
Seat height adjustment 4, 33
Seat position

Seats 3, 32
Adjustment
Electric seat adjustment 33
Folding passenger seat
Heated seats
Selector lever 14, 112
Selector lever lock 14, 112
Self-diagnosis
Self-help
Automatic transmission
Information display
Remote control 20
Service
Service intervals
Side airbags 50
Side repeater lights
Bulb replacement 184
Slide/tilt sunroof 30
Spare keys 17
Spare wheel149, 173
Speed
Fuel consumption 125
Speedometer 71
Starter switch9
Illumination
Starting on inclines 166
Starting the engine
Self-help
Steam-jet cleaners 139, 163, 198, 199
Steering wheel a djustment9
Steering wheel lock9
Steering wheel remote control
Storage 55
Stowage compartments

Sunglass holder	61
Sunroof	30
Sunvisors	
Illumination	96
System settings	75,81

т

Tachometer71
Tail and brake lights
Bulb replacement 184
Tailgate2,22
Tailgate wash system12, 89, 195
Anti-freeze protection 195
Capacities 218
Wash fluid reservoir195
Tailgate wiper 12, 89
Tank
Fuel gauge72
Technical data 208
Telephone, see Mobile telephones98
Temperature regulation102, 108
Temporary spare wheel149, 173
The first 600 miles (1000 km) 123
Tightening torque
Time
Tools 172
Towing
Towing equipment160, 220
Towing eye170, 171
Towing service
Trailer / caravan towing
Trailer Stability Assist (TSA)134
Transmission display72, 112
Tread depth

Trip computer	77, 84
Trip odometer	71
Turn signal lights	10, 91
Bulb replacement	.182,183
Tyre chains	148
Tyre condition	146
Tyrepressure	.146,164
Tyrepressure monitoring system Tyres	87,140
Directional tyres	
Pressure	217

U

Units of measure	
Unleaded fuel	
Used engine oil	

V

Valve cap key
,
Vauxhall genuine parts
and accessories 187
Vauxhall Service 202
Vehicle care
Vehicle Identification Number208, 209
Vehicle keys, see Keys 17
Vehicle tools 172
Vehicle weights 215
Ventilation

W

Warning buzzers	8
Warning messages75, 8	0
Warning triangle	3
Washing the vehicle	8

Weights
Wheel condition146
Wheel trims 148
Wheels, tyres 145
Windows 12, 28, 101
Demisting and defrosting 13, 104, 109
Windscreen wash system 12, 89, 195
Anti-freeze protection
Capacities218
Wash fluid reservoir
Windscreen wiper11, 88, 194
Winter operation
Battery 124
Coolant, anti-freeze 191
Fuel consumption 126
Fuel for diesel engines
Heating99, 105, 107
Locks
Tyre chains148, 216
Window demisting
and defrosting
Windscreen wash system,
anti-freeze protection
Winter tyres
Winter programme 113
Winter tyres 148
N .

Х Хе

Kenon headlight system	183
Bulb replacement	183