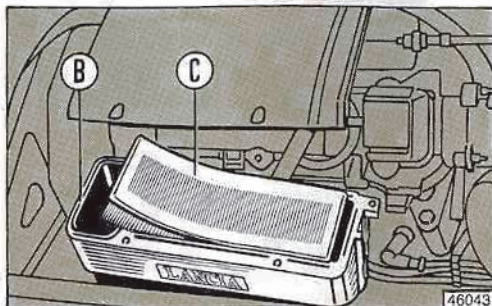
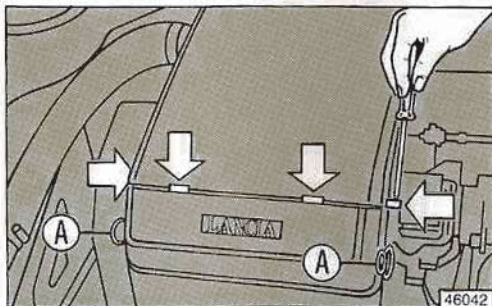


AIR CLEANER

Cleaning or replacing the filter element

Dedra 1.6 i.e.

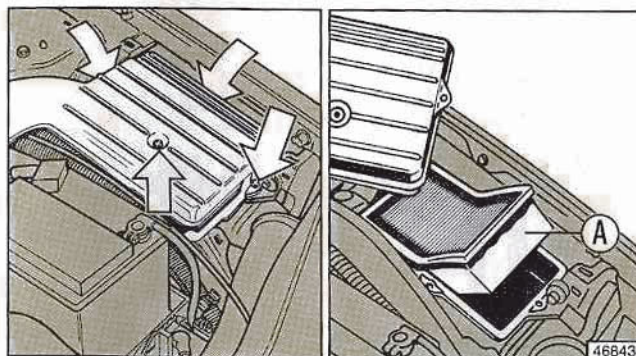
Unscrew the four screws indicated by the arrows in the figure and release spring clips A.



Remove cover B and pull out filter element C.

Dedra 1.8 i.e. - Dedra 2.0 i.e. - Dedra turbo ds

The figure refers to an engine with the filter located on the side near the battery. The replacement procedure is the same even if the filter housing is on the opposite side of the engine compartment.



Unscrew the three screws located in the holes indicated by the arrows.

Lift off the cover and remove filter element A.

Note: If the filter element is not cleaned or replaced when necessary, exhaust emissions and smoke opacity will increase and engine performance will drop.

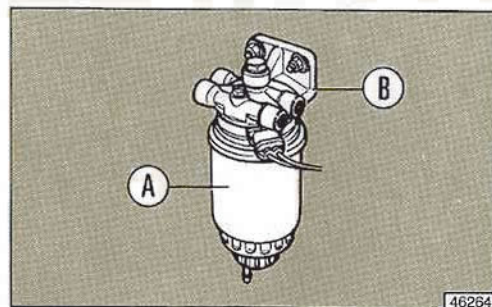
High emission levels and opaque exhaust fumes may be in violation of clean air standards.

FUEL FILTER

Replacing the filter

The fuel filter should be replaced every 20,000 km as part of service schedule maintenance.

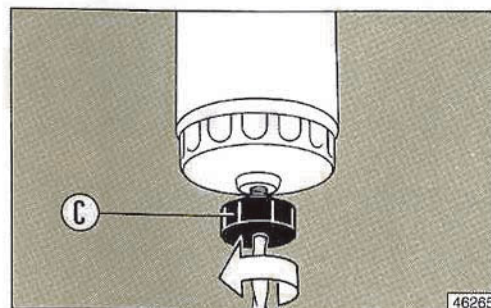
If sediment is present in the diesel fuel, the filter may need to be replaced more often than indicated (turbo ds engine). It is probably necessary to change the fuel filter if the engine starts misfiring.



If you wish to replace the filter yourself, you will need a tool to unscrew cartridge A from housing B. Fill the new filter with diesel fuel before replacing it.

Whenever fuel filter cartridge A is replaced or the fuel lines are drained (e.g., when running out of fuel), it is unnecessary to bleed the air from the system. This will occur automatically when starting the engine.

Draining condensed water (Dedra turbo ds engine)



Knob C should be used to drain water that may have condensed in the fuel filter. Unscrew it a couple of turns and then retighten it when water-free fuel flows out.

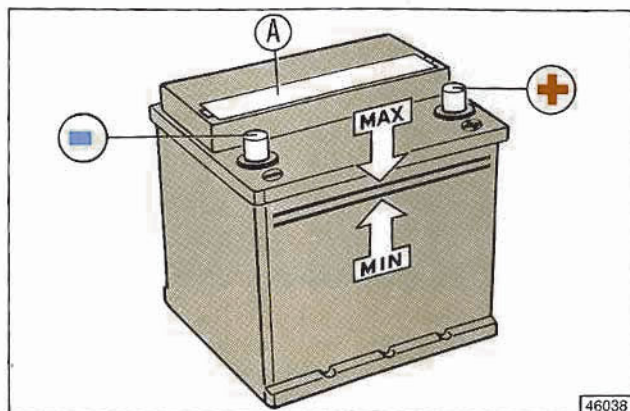
Condensed water should be drained when the instrument panel warning light turns on.

Battery

General information

The battery installed is maintenance-free. It does not need to be topped up with distilled water.

The electrolyte, when the car is on level ground, should be between the two reference marks on the case (MIN - MAX).



If absolutely necessary, the battery can be topped up with distilled water by removing cap A. Insert a screwdriver in the slot at the edge of the rectangular cap. Add distilled water to the MAX level without ever exceeding it.

Important: The battery electrolyte is toxic and corrosive. Avoid contact with your skin or eyes.

Lead batteries should be disposed of according to local regulations.

Recommendations

The car's battery will last much longer if you carefully follow these recommendations:

- If possible, do not leave power accessories on for a long time when the engine is not running (e.g., radio, hazard warning lights, side lights).
- When you leave the car parked in a garage ensure the doors, boot and glove compartment are properly closed to prevent the interior lights from remaining on. Remember to turn off the spot light.
- If you plan on installing other accessories (remote power locks, vehicle alarm systems, radio with memory features) ask your LANCIA dealer for advice regarding devices which will not cause the battery to lose its charge. Power absorption of any «aftermarket» installed accessories with the equipment turned off should not exceed 20 mA (with the engine off).

If the battery accidentally loses its charge, see the chapter on the battery in the “What to do if...” section.

Electronic control units

Under normal operating conditions no particular attention need be paid to the car's electronic ignition and injection control units.

However, the recommendations listed below should be carefully followed during diagnostic procedures, servicing, repairs or emergency starting.

- Never disconnect the battery when the engine is running.
- Disconnect the battery from the car's electrical system when charging it.
- Do not use a battery charger to start the engine. Use another battery with the same amperage rating.
- Ensure the battery cables are firmly fastened to the terminal posts and polarity is correct.
- Do not connect or disconnect control unit connectors when the ignition is on (key at MAR).
- Never check battery polarity by sparking.
- Disconnect the control units when arc welding body panels. Remove the units when temperatures could exceed 80 °C (body repairs, painting, etc.).

Important

Driving safety can be compromised if you connect devices or modify the car's electrical system – especially systems such as the ignition, fuel injection or ABS.

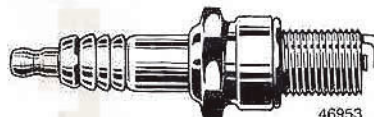
Improper installation of a radio or vehicle alarm system may create interference hampering the operation of the electronic control units.

Spark plugs

The condition of the spark plugs is extremely important for engine life, performance and limiting exhaust emissions. Other vehicle malfunctions (e.g. incorrect fuel/air mixture) can affect plug life.

If the engine is not operating properly, have spark plug operation verified at a LANCIA Service Center or by skilled mechanic.

The spark plugs are often an accurate indicator of the malfunction.



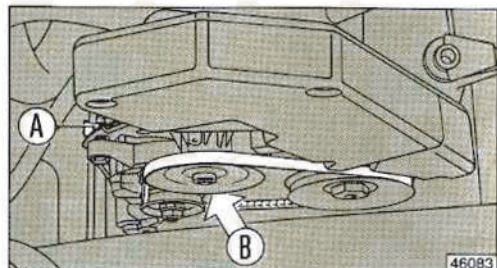
Use only recommended types of spark plugs. Plugs with an improper heat ratio could hamper engine operation.

ALTERNATOR BELT

Checking and adjusting belt tension

The alternator belt should never show signs of wear (cracking or fraying), and should be properly tensioned to prevent slippage.

Tension should be checked at a LANCIA Service Centre. In an emergency belt tension can be adjusted using the procedure below:



- Loosen belt tensioning nut A.
- Loosen articulation pin nut B.
- Pull the alternator outwards and tighten the nuts.

Do not overtighten the belt to prevent premature bearing wear. A simple method of determining correct belt tension is

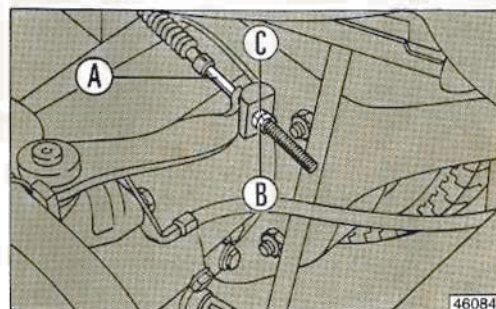
CLUTCH

to press the belt down with your thumb. Its downward travel should be about 1 cm.

Note: Depending on the version you have the alternator and nuts described and illustrated in the figure may be have different positions, but the adjustment procedure is the same.

Clutch pedal height

The clutch is self-adjusting and has no pedal free travel; it is mechanically controlled for left-hand drive cars, hydraulically controlled for right-hand drive cars.



With the mechanical control clutch, the pedal position (not depressed) is adjustable and determined by the length of cable A.

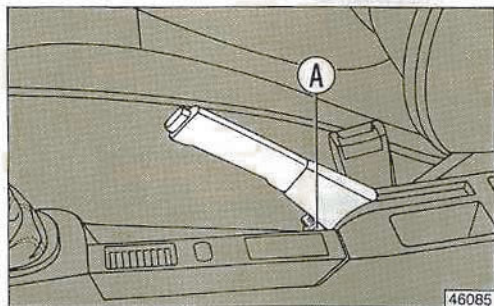
To adjust pedal height, loosen locknut B and turn nut C.

- Tighten it to raise the pedal.
- Loosen it to lower the pedal.

When properly adjusted, tighten locknut B.

Adjusting lever travel

Use this procedure to adjust the travel of the handbrake lever:



- Pull the lever upwards a single detent starting from the fully released (down) position.
- Turn nut A until the cable is taut.
- Ensure the car does not move after pulling up the handbrake one or two more detents.

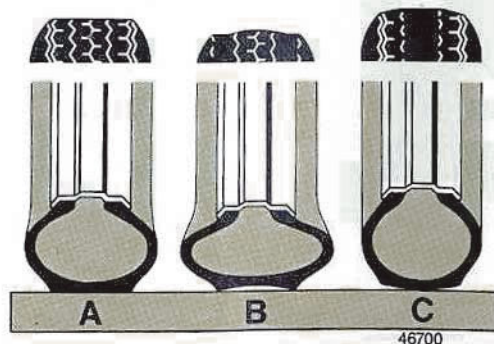
Pressure and tyre wear

Ensure the tyres are always properly inflated. This will increase their life, improve handling and your security. Verify the pressure of all tyres fortnightly and before taking a long trip.

Use a pressure gauge to check the tyres are inflated to the pressure values indicated on the inside front cover of this handbook.

Incorrect tyre pressure can lead to irregular wear.

- A - Correct pressure: tyre wears evenly.
- B - Underinflated tyre: excessive shoulder tread wear.
- C - Overinflated tyre: excessive centre tread wear.



Notes

Always check the tyres when they are cold. Because tyre pressure increases when driving, add 0,3 bar to the values if you have to verify the pressure when the tyres are hot.

TYRES

Driving with underinflated tyres causes them to overheat, which can cause permanent damage. The tread depth should not be less than 1 mm*. The less tread present, the less road traction. In any case, always drive carefully on wet roads.

Tread wear indicators are moulded into some tyres. Replace them as soon as they are visible.

Inspect the tyres for irregular wear or cuts on the sidewalls. If they are not wearing evenly, take your car to a LANCIA Service Centre to determine the cause.

Important

Impact against the kerb, potholes or other objects, as well as driving frequently on poorly surfaced roads may damage the tyres.

If a blowout occurs, stop as soon as possible to change the tyre. Driving on a flat tyre will damage it.

Always remove the tyre from the wheel to inspect for damage.

Tyres can "age" even when they are not used.

Cracking of the tread or sidewalls and distention are signs of ageing. Have these tyres checked by an expert. If the tyres have been on the car for over 6 years they should also be checked.

* After 1 January 1992 minimum tread depth is 1.6 mm (ECE directive 89/459).

Inspect the spare tire carefully to ensure it is in good condition. If not, replace it as soon as possible.

Never use cheap, recapped tyres. Inner tubes should never be used in tubeless tyres.

When changing a tyre, it is a good idea to replace the inflation valve. Rotate the tyres (exchange the front with rear on the same side of the car) every 10,000-15,000 km to ensure even wear.

Never rotate the tyres in a criss-cross fashion.

Snow chains

The use of snow chains is subject to the regulations of the country where the car is being driven.

Snow chains should be used on the front wheels (for front-wheel drive cars).

After driving for about 30 m (100 yards), stop and retighten the chains.

Drive at moderate speeds when using chains to avoid damaging the tyres. Do not drive on snowfree roads with chains.

Use only low-profile chains (max. chain height = 12 mm).

WINDSCREEN WIPERS AND REAR SCREEN WIPER

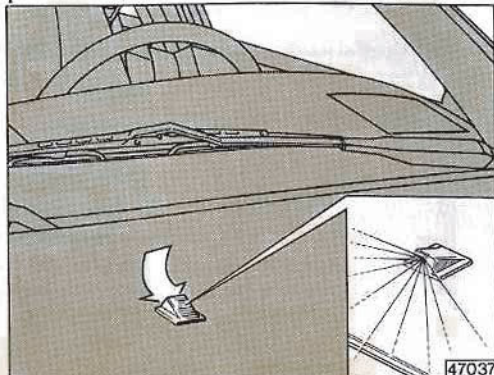
Blades and spray nozzles

Periodically clean the wiper blades using proprietary detergents (**Autofã n. 9 DP1** liquid recommended) or alcohol. Make sure they are not damaged, or they will not clean properly. If the rubber edge of the blade is permanently deformed or worn down, replace the blade.

The following simple recommendations are useful to prevent damaging the wiper blades:

- When temperature is very low (below 0 °C) make sure the wiper blades are not stuck to the glass by ice; if they are, use an anti-ice product to get them loose. Remove any ice or snow from the windscreen; this will help to save the blades and to prevent putting an overload on the wiper motor.
- Never attempt to remove any dirt from the windscreen or back window by operating the wiper blades while the glass is dry.

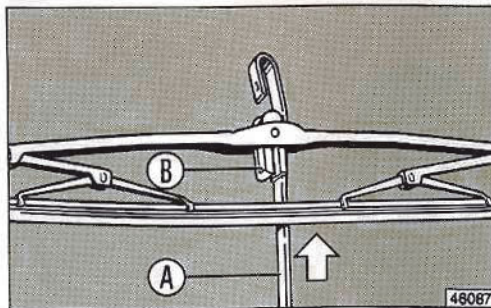
Failure to observe these precautions will result in early wear of the wiper blades.



If the washer spray nozzles are not operating properly check the tubing between the reservoir and the nozzles to ensure it is not clogged. If necessary, the spray nozzles can be cleaned with a pin.

Replacing the wiper blades

Lift the wiper blade arm so it is perpendicular to the windscreen and position the blade at a 90° angle with respect to the arm.

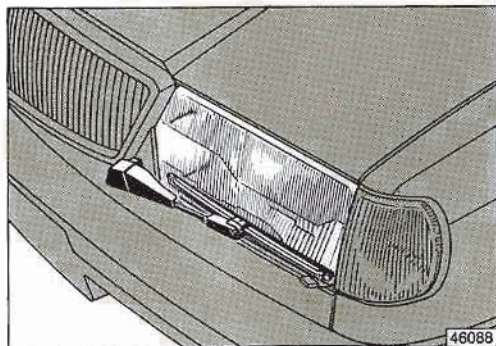


Press tab B and then press the blade downwards towards the base of arm A.

When the blade is released from the curved tip of the arm, press it down and remove it.

HEADLIGHT WIPERS

Blades and spray nozzles



If your car is equipped with headlight wiper / washers, check the operation of the wiper blades and spray nozzles frequently.

Important

After washing the car – especially in a car wash – ensure the blades are correctly positioned above the lower stops.

AIR CONDITIONER

Verifying system efficiency

Use the air conditioner – even if only for a few minutes – all year round to maintain the system in excellent condition.

If you often use the ECON feature, make sure it is off because the compressor needs to operate from time to time.

During spring and autumn, use the system occasionally with ECON off. And remember to press the TEMP button until LO appears on the display.

During winter the compressor will not operate when the system is fully automatic.

Every time the system is serviced, ask to have the compressor oil level verified and topped up if necessary.

BODY MAINTENANCE AND CARE

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- Body	123
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- Interior	124
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- Engine compartment	125
- Cleaning plastic parts	125
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BODY MAINTENANCE

Protecting the car

LANCIA has taken action to improve the corrosion resistance of the car's body caused by chemical agents including:

- air pollution (cities and industrial areas);
- humidity and airborne salt (marine or hot, humid areas);
- seasonal conditions (e.g., use of road salt during winter).

Dust, dirt, sand, mud and gravel kicked up by other cars are all abrasive and can damage the paint and underbody.

The following high-tech solutions have been utilized:

- the use of corrosion and abrasion-resistant paints and painting methods;
- the widespread use of galvanised body panels which are extremely resistant to corrosion;
- spraying of the underbody, engine compartment, wheel arches and other box-construction components with highly protective wax-base sealants which have a particular affinity for metal;

- protective spraying of door sills, rocker panels and bumpers with resins;
- use of pollution-resistant enamels;
- use of open box cross and side member chassis construction to prevent the build-up of water and the formation of rust.

The factors described act in different ways depending on the environmental conditions in which the car is used. If you take care of your car it will last much longer.

The following pages provide suggestions for the proper maintenance of the car's body and interior.

BODY MAINTENANCE

Paint - Body

The body paint not only makes your car beautiful, but protects the sheet steel used in body construction.

Chips or deep scratches should be immediately touched up before rusting begins.

Always use original touch-up paint (see "Specifications - Paint identification plate").

Wash your car regularly. Washing should be done more frequently in areas with high levels of air pollution or when parking often under trees (sap or other debris may fall on the car).

Immediately remove bird droppings from the body because uric acid is particularly damaging to the paintwork. Thoroughly wash the car as soon as possible.

Wash the car with a low-pressure hose. Sponge gently with a 2-4% detergent solution rinsing the sponge often. Rinse well and then dry using an air jet or chamois-leather.

Dry the car carefully including less visible areas such as the door frames, bonnet and the headlamp housings – those areas where water can stagnate. Do not park the car in a closed garage immediately after washing so that air can circulate allowing the remaining water to evaporate.

Do not wash the car after it has been parked in the sun or if the bonnet is still hot to prevent damage to the high-gloss paint finish.

The occasional use of wax or silicone polish will protect the car's paint and retain the original lustre. If the paint becomes dull due to smog or other factors, use a slightly abrasive wax polish.

BODY MAINTENANCE

Underbody

The less visible body parts and box-type members have been treated by LANCIA using state-of-the-art techniques.

However, this area of the body should be regularly checked especially if the car is driven in adverse climatic conditions.

Underbody inspections should be performed to ensure the body metal and mechanical assemblies are in proper condition. Repair any damage observed immediately.

Some box sections are closed by plugs. These should be removed to check for rust when carrying out an underbody inspection.

In particularly severe climates the box sections and door frames should be sprayed periodically with protective compounds.

These protective materials should be applied by specialised body shops. Spraying needs to be done at least **every two years** (annually under very severe conditions) at the beginning of winter.

Interior

It is also extremely important to take care of the car's interior.

Check to make sure that there is no standing water under the mats (from shoes, umbrellas, etc.) which could cause the floorpan to rust.

Dust can be removed from **seats and cloth upholstery** (velvet, Alcantara, etc.) with a soft brush.

Remove grease stains using an appropriate product. Follow the manufacturer's instructions carefully.

If the seats need thorough cleaning, use a sponge dampened in a soapy water (2-4 grams of detergent per litre of water).

Dirt or dried matter can be removed from **leather seats** by gently rubbing with a chamois-leather or slightly dampened soft cloth.

Liquid or grease stains can often be removed by using a dry, absorbent rag without rubbing. After soaking up the stain, rub lightly with a soft cloth or chamois-leather moistened with soapy water.

If the stain remains, use an appropriate remover. Follow the manufacturer's instructions carefully.

BODY MAINTENANCE

Windows

The windows should be cleaned with a good quality glass cleaner. Wipe dry with a clean cloth to avoid streaking which could hinder visibility.

Clean the inside of the rear window carefully to avoid damaging the defroster wires. Rub lightly and in a horizontal direction only.

In addition, refer to the recommendations concerning the cleaning and maintenance of the wiper blades (page 118).

Engine compartment

The engine compartment should be thoroughly washed at the end of every winter to remove road salt.

Before starting to clean the engine compartment make sure the ignition key is off and the engine is cold.

After cleaning check that the various protections (e.g., high and low voltage cable caps and various covers) are in place and undamaged.

Cleaning plastic parts

Clean the exterior plastic parts in the same way as you would wash the car's body.

If still dirty, use an appropriate plastic cleaner following the manufacturer's instructions carefully. Never use paint cleaning compounds on plastic.

Do not use alcohol to clean the instrument panel.

For the interior plastic parts, avoid using products that shine the plastic – especially those containing silicone – as they will alter the appearance of those parts with a “matte” finish. Use soapy water, a very dilute alcohol solution (not for the instrument panel), or detergents appropriate for plastics.

Recommendations

If you are not planning on using your car for several months follow these recommendations:

- Clean and protect the paint with silicone wax; clean the chrome using ordinary chrome cleaning compounds.
- Store the car in a dry, covered ventilated place.
- Fully release the handbrake.
- Disconnect the cables from the battery terminal posts.
- Remove all the wiper blades and coat the rubber parts with talc.
- Leave the door windows slightly open.
- Cover the car with a tarpaulin that is NOT waterproof (made of cloth or perforated plastic). NEVER use a sheet of plastic to cover the car as it will trap the moisture present on the surface of the vehicle.
- Inflate the tyres to 2.5 bar; check the pressure periodically.
- Check the battery charge every 1 ½ months. When necessary charge the battery slowly (over a 24-hour period) using a trickle charger.
- Do not drain the coolant from the engine.

SPECIFICATIONS

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VEHICLE IDENTIFICATION

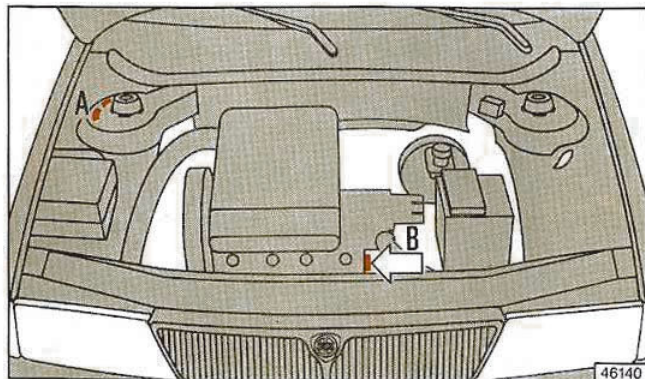
Chassis marking

Chassis marking A is located in the engine compartment at the top of the right damper. The following information is given on the plate:

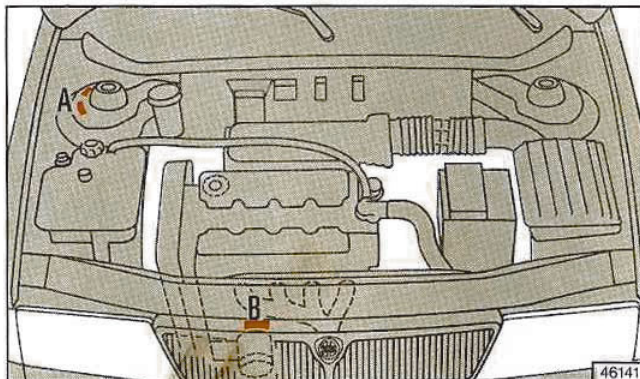
- Type of vehicle: ZLA 835 000
- Chassis serial number.

Engine marking

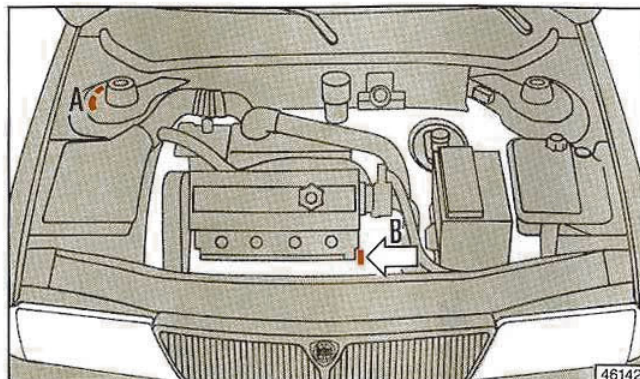
The engine type and serial number are located at point B, which has different positions depending on the engine mounted.



Dedra 1.6 i.e.



Dedra 1.8 i.e. - Dedra 2.0 i.e.



Dedra 2.0 turbo ds

VEHICLE IDENTIFICATION



The engine type is given on the model plate at point I.

Dedra 1.6 i.e.	835 A1.000
Dedra 1.8 i.e.	835 A2.000
Dedra 2.0 i.e.	835 A5.000
Dedra 2.0 turbo ds	835 A4.000

Model plate

Located in the engine compartment.

The following identification data is stamped on the plate:

	A	
	B	
	C	D
	E	Kg
	F	Kg
	1- G	Kg
2- H	Kg	
	MOTORE - ENGINE	I
	VERSIONE - VERSION	L
	N° PER RICAMBI N° FOR SPARES	M

45438

- A. Manufacturer
- B. Homologation number
- C. Vehicle identification code
- D. Chassis serial number
- E. Maximum gross vehicle weight
- F. Maximum gross vehicle weight including trailer
- G. Maximum gross weight at front axle
- H. Maximum gross weight at rear axle
- I. Engine type
- L. Body type code
- M. Number for spares
- N. Smoke opacity index (diesel and turbo ds engines)

VEHICLE IDENTIFICATION

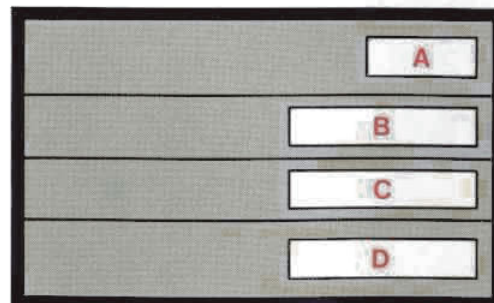
Body type code

Stamped on the model plate at point L.

Dedra 1.6 i.e.	835 BA54A
Dedra 1.8 i.e.	835 AC54A
Dedra 2.0 i.e.	835 AI54A
Dedra 2.0 turbo ds	835 AG54A

Paint identification plate

Located in the inside of the boot.



45437

- A. Paint manufacturer
- B. Colour name
- C. Colour code
- D. Respray and touch-up colour code

	Dedra 1.6 i.e.	Dedra 1.8 i.e.
Type	835 A1.000	835 A2.000
Cycles	4-cycle	4-cycle
Number of cylinders	4, in line	4, in line
Bore x stroke mm	86.4 × 67.4	84 × 79.2
Engine capacity cm ³	1581	1756
Compression ratio	9.2	9.5
Maximum power { kW(CEE)	65	80
{ CV(DIN)	90	110
at rpm	5800	6000
Maximum torque { Nm(CEE)	128	142
{ kgm(DIN)	13.2	14.7
at rpm	3500	3000

	Dedra 2.0 i.e.	Dedra 2.0 turbo ds
Type	835 A5.000	835 A4.000
Cycles	4-cycle	Supercharged diesel
Number of cylinders	4, in line	4, in line
Bore x stroke mm	84 × 90	82.6 × 90
Engine capacity cm ³	1995	1929
Compression ratio	9.5	19.2
Maximum power { kW(CEE)	86	66
{ CV(DIN)	120	92
at rpm	5750	4100
Maximum torque { Nm(CEE)	162	186
{ kgm(DIN)	16.8	19.4
at rpm	3300	2400

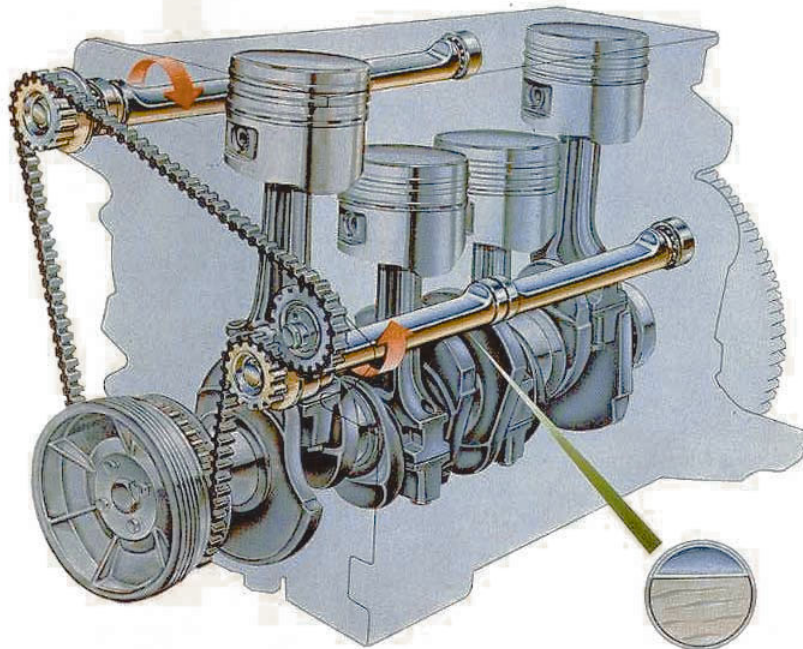
ENGINE

Balancing shafts

The engines of the Dedra 1.8 i.e. and 2.0 i.e. are equipped with counterrotating balancing shafts. They rotate at a speed

twice that of the crankshaft, and serve to absorb and equilibrate dynamic stress not absorbable by the crankshaft itself.

As a result, these engines operate very smoothly at all speeds.



ENGINE

Timing

	Dedra 1.6 i.e.	Dedra 1.8 i.e.	Dedra 2.0 i.e.	Dedra 2.0 turbo ds
Overhead cam(s); no. of camshafts	1	2	2	1
Camshaft drive	Toothed belt	Toothed belt	Toothed belt	Toothed belt
Inlet { opens (BTDC)	6°	5°	7°	6°
{ closes (ABDC)	46°	53°	52°	26°
Exhaust { opens (BBDC)	47°	53°	53°	26°
{ closes (ATDC)	7°	5°	6°	6°
Valve clearances for timing check (inlet and exhaust) mm	0.80	0.80	0.80	0.50
Valve clearances, cold operation:				
– inlet mm	0.40 ^{+0.05} _{-0.07} *	0.43 ± 0.04	0.40 ± 0.04	0.30 ± 0.05
– exhaust mm	0.50 ^{+0.05} _{-0.07} *	0.48 ± 0.04	0.48 ± 0.04	0.35 ± 0.05

* Tolerance values determined for new engines manufactured utilizing automated systems. When servicing, the valve clearances should be set to within ± 0.05 mm of nominal values.

Fuel metering - ignition

Integrated electronic injection/ignition system. A single electronic control unit governs both functions elaborating the injection time (petrol metering) and the ignition advance.

Method used to determine the aspirated air volume for fuel metering Speed-density*

Air cleaner: dry, with paper filter element.

Fuel pump: in-tank pump.

Firing order 1-3-4-2

	Dedra 1.6 i.e.	Dedra 1.8 i.e.	Dedra 2.0 i.e.
Electronic injection system	"Centrajet" single-point	"I.A.W." multi-point	"I.A.W." multi-point
Injection pressure bar	1	3	3
Idle speed rpm	850 ± 50 **	820 ± 50	820 ± 50
CO at idle %	1 ± 0.5	1.5 ± 0.5	1.5 ± 0.5
Reference ignition advance at idle	$12^\circ \pm 2^\circ$	$15^\circ \pm 2^\circ$	$15^\circ \pm 2^\circ$
Maximum digital advance	$40^\circ \pm 2^\circ$	$43^\circ \pm 2^\circ$	$43^\circ \pm 2^\circ$
Spark plugs:			
Fiat	V4LSR	V45LSR	V45SLR
Magneti Marelli	F7LCR	F8LCR	F8LCR
Bosch	WR7DC	WR6DC	WR6DC
Champion	RN9YC	RN7YC	RN7YC
Plug gap	0.7 mm	0.7 mm	0.7 mm

* Analytical method for determining air flow. The information from the engine speed, air temperature and absolute intake manifold air pressure sensors are elaborated by the electronic control unit.

** Automatically regulated by a stepper motor.

ENGINE

Fuel metering (Dedra 2.0 turbo ds)

System Indirect injection, super-charged

Turbocharger - main components Dry air cleaner element - Turbocharger with wastegate valve - Intercooler.

Turbocharger pressure 0.8 bar

Injector calibration pressure 150 ± 8 bar

Injection pump rotary

- MIN/MAX speed governor
- Thermostatically-controlled automatic advance for cold starting
- Fast idle for warm-up operation
- Silent low-speed operation

Injection order 1 - 3 - 4 - 2

Idle speed 900 ± 20 rpm

Lubrication

Forced-feed gear pump with pressure relief valve.

Full-flow cartridge oil filter.

Dedra 2.0 turbo ds: oil radiator.

Normal lubrication pressure with oil at 100°C 3.4-4.9 bar (3.5-5 kg/cm²)

Cooling system

The engine cooling system comprises a radiator, centrifugal pump and expansion tank.

Bypass thermostat on the secondary recirculation circuit delivers the coolant to the radiator from the engine.

Thermostatically-controlled radiator fan.

TRANSMISSION

Clutch

Self-adjusting; no pedal free travel.

Mechanically controlled for left-hand drive cars; hydraulically controlled for right-hand drive cars. Pedal height position (not depressed) adjustable only for mechanical control clutch.

Clutch disc friction facing is asbestos-free.

Transaxle

Five forward gears and reverse; forward gears fully synchronised.

Single longitudinal transmission linkage shaft with three transverse connecting rods (engagement, selection, reaction).

Pinion and spur gears and differential incorporated in the transmission case.

Gear ratios:

	Dedra 1.6 i.e.	Dedra 1.8 i.e.	Dedra 2.0 i.e.	Dedra 2.0 turbo ds
1st gear	3.909	3.545	3.545	3.909
2nd gear	2.267	2.267	2.267	2.267
3rd gear	1.469	1.541	1.541	1.440
4th gear	1.043	1.156	1.156	1.029
5th gear	0.891	0.875	0.891 or 0.875	0.823
Reverse	3.909	3.909	3.909	3.909
Final drive ratio	17/64	15/58	17/57 or 16/57	19/58

Power transmitted to the front wheels by axle halfshafts linked to the transaxle and wheels with constant-velocity joints.

Service brakes

Diagonally split hydraulic brake circuits.

8" brake servo unit.

Asbestos-free brake linings.

Front: disc brakes.

Rear:

- Dedra 1.6 i.e.: Drum brakes with "thermoclip" controlled self-adjusting incremental micrometre system.
- Dedra 1.8 i.e. - 2.0 i.e. - 2.0 turbo ds: disc brakes.
- Dedra 1.6 i.e. with ABS (option): disc brakes.

Optional: Antilock braking system (ABS):

- Four-channel for Dedra 2.0 i.e. and 2.0 turbo ds
- Two-channel for Dedra 1.6 i.e. and 1.8 i.e.

Parking brake

Mechanical, lever-type, acting on rear brakes. Handbrake lever travel can be adjusted from the passenger compartment.

Suspension

Front

Independent, McPherson suspension with negative reaction rod.

Antiroll bar linked to control arms with rods.

Offset coil springs and conical-dome dampers.

Double-acting, telescoping, gas-filled dampers.

Suspension components with differential action: coil spring retention plate and rubber bushing countering damper shaft motion.

Rear

Independent, with longitudinal control arms and antiroll bar.

Coil springs.

Double-acting, telescoping, gas-filled dampers.

Optional (Dedra 2.0 i.e.)

Electronic ASC (Automatic Suspension Control) system.

WHEELS AND TYRES

Rims and tyres

Standard equipment

Rims pressed steel.
Tyres tubeless radials.

Dimensions

	Rims	Tyres
1.6 i.e. 2.0 turbo ds	5½J-14"H*	175/65 R14-82T
1.8 i.e. 2.0 i.e.	5½J-14"H**	185/60 R14-82H

Optional equipment

Rims aluminium alloy.
Tyres tubeless radials.

Dimensions (all versions)

- Rims 5½J-14" AH2-43*
- Tyres 185/60 R14-82H

Important

Never use inner tubes in tubeless tyres.

- * Rims with 43-mm camber.
- ** Rims with 47.5-mm camber, mounted with a 4.5-mm spacer plate. Remove this plate when mounting light alloy wheels (43-mm camber).

Snow chains

Maximum permissible height 12 mm
Refer to p. 117 for information on using snow chains.

STEERING - WHEEL ALIGNMENT

Steering

Permanently lubricated rack-and-pinion steering.

Hydraulic power steering (optional for Dedra 1.6 i.e.); fluid reservoir in engine compartment.

Shock absorbing steering column with rake adjustment.

Turning circle diameter 10.3 m

Number of turns lock-to-lock ~3

Wheel alignment values

The values given are for an unladen car in running order.

Front wheel toe-in 0 ± 1 mm

Rear wheel toe-in 0 ± 2 mm

ELECTRICAL SYSTEM

System voltage: 12 volts

Battery

Negative earth

	Dedra 1.6 i.e.	Dedra 1.8 i.e.	Dedra 2.0 i.e.	Dedra 2.0 turbo ds
Capacity, 20-h discharge rate	40 Ah 45 Ah *	40 Ah 45 Ah *	45 Ah 60 Ah *	70 Ah
Cold cranking power (– 18 °C)	200 A 225 A *	200 A 225 A *	225 A 320 A *	400 A

* Batteries for versions with air conditioning.

Alternator

Nine-diode rectifier with integral voltage regulator.

Battery starts charging as soon as engine starts.

	Dedra 1.6 i.e.	Dedra 1.8 i.e.	Dedra 2.0 i.e.	Dedra 2.0 turbo ds
Maximum nominal output	65 A 90 A *	65 A 90 A *	70 A 90 A *	70 A 90 A *

* Maximum nominal output values for alternators in cars with air conditioning.

PERFORMANCE - WEIGHTS

Performance

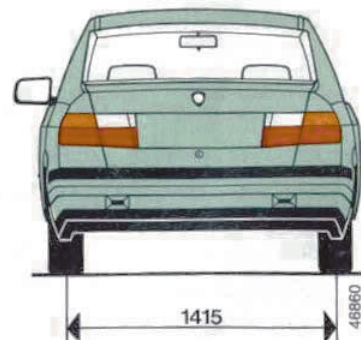
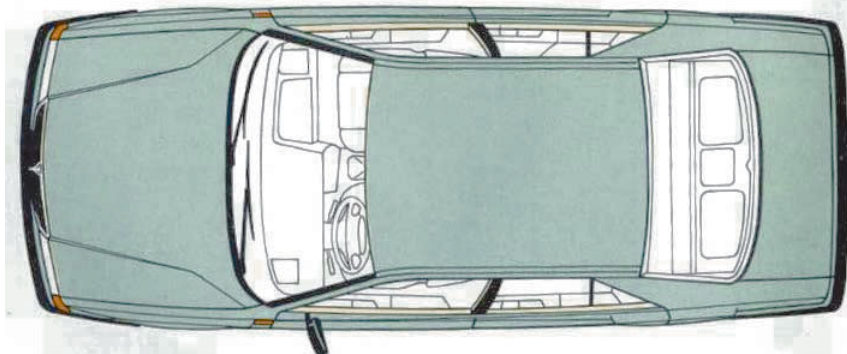
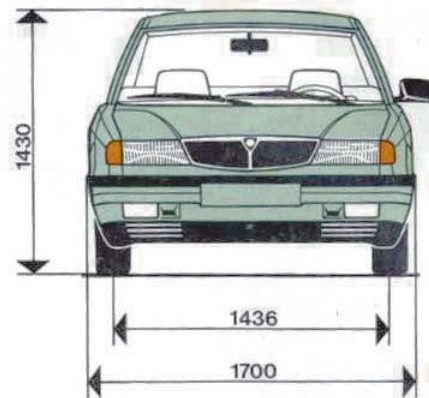
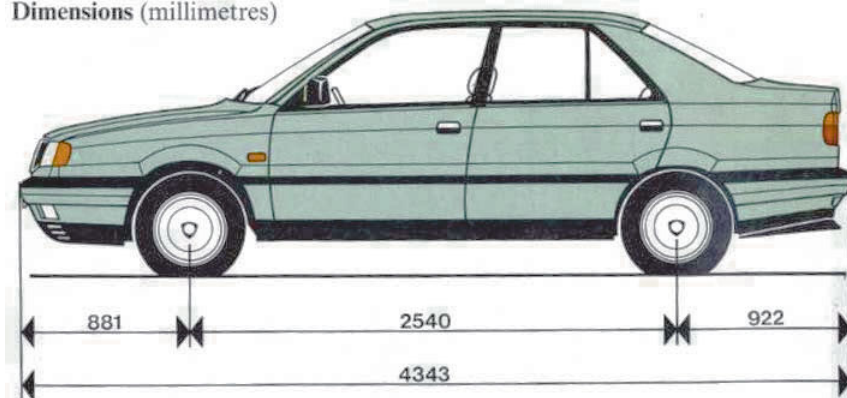
	Dedra 1.6 i.e.	Dedra 1.8 i.e.	Dedra 2.0 i.e.	Dedra 2.0 turbo ds
Maximum speeds - after running in (km/h)				
1st gear	45	55	55	40
2nd gear	80	85	85	65
3rd gear	120	125	125	105
4th gear	170	170	165	150
5th gear	180	192	200	180
Maximum gradeability - fully laden vehicle (expressed in %)				
1st gear	36	36	36	39
2nd gear	21	21	21	24
3rd gear	12	13	13	14
4th gear	8	9	9	9
5th gear	6	6	6	6
Reverse	40	40	41	43

Weights (kg)

	Dedra 1.6 i.e.	Dedra 1.8 i.e.	Dedra 2.0 i.e.	Dedra 2.0 turbo ds
Kerb weight (including fuel, spare, tools and accessories)	1090	1180	1200	1230
Payload (5 adults + 50 kg of luggage + 100 kg equally distributed over the two axles)	500	500	500	500
Maximum gross vehicle weight	1590	1680	1700	1730

DIMENSIONS

Dimensions (millimetres)



The height illustrated is for an unladen car.

Luggage compartment volume (VDA standards): 480 dm³.

CAPACITIES

Capacities	Dedra 1.6 i.e.		Dedra 1.8 i.e.		Dedra 2.0 i.e.		Dedra 2.0 turbo ds		Recommended fuels and products *
	dm ³ (Imp. units)	kg	dm ³ (Imp. units)	kg	dm ³ (Imp. units)	kg	dm ³ (Imp. units)	kg	
Fuel tank	63 (13.2 gal.)	—	63 (13.2 gal.)	—	63 (13.2 gal.)	—	—	—	Premium petrol *
including a reserve of	5-8 (1.1-1.8 gal.)	—	5-8 (1.1-1.8 gal.)	—	5-8 (1.1-1.8 gal.)	—	—	—	
Fuel tank	—	—	—	—	—	—	63 (13.2 gal.)	—	Diesel fuel (see p. 75)
including a reserve of	—	—	—	—	—	—	5-8 (1.1-1.8 gal.)	—	
Cooling system	4.90 (4.3 qt.)	—	6.90 (6.1 qt.)	—	6.90 (6.1 qt.)	—	8.90 (7.8 qt.)	—	50-50 mixture of distilled water and Fiat Parafflu ⁱⁱ ***
Engine sump	3.35 (2.9 qt.)	3.00 (6.6 lb.)	4.80 (4.2 qt.)	4.30 (9.5 lb.)	4.80 (4.2 qt.)	4.30 (9.5 lb.)	4.30 (3.8 qt.)	3.30 (7.3 lb.)	
Engine sump and filter	3.75 (3.3 qt.)	3.30 (7.3 lb.)	5.20 (4.6 qt.)	4.70 (10.4 lb.)	5.20 (4.6 qt.)	4.70 (10.4 lb.)	5.00 (4.4 qt.)	4.40 (9.7 lb.)	See facing page
Engine sump, filter and lines 1st in-factory filling	4.25 (3.7 qt.)	3.75 (8.3 lb.)	5.75 (5.1 qt.)	5.20 (11.5 lb.)	5.75 (5.1 qt.)	5.20 (11.5 lb.)	6.00 (5.3 qt.)	5.30 (11.7 lb.)	
Transaxle	1.40 (2.8 qt.)	1.25 (2.8 lb.)	1.40 (2.8 qt.)	1.25 (2.8 lb.)	1.40 (2.8 qt.)	1.25 (2.8 lb.)	1.40 (2.8 qt.)	1.25 (2.8 lb.)	Tutela ZC 80/S
Steering gear	—	0.08 (2.8 oz.)	—	0.08 (2.8 oz.)	—	0.08 (2.8 oz.)	—	0.08 (2.8 oz.)	Tutela K 854
Hydraulic power steering	0.75 (1.3 pt.)	—	0.75 (1.3 pt.)	—	0.75 (1.3 pt.)	—	0.75 (1.3 pt.)	—	Tutela GI/A
CV-joint cavities and boots (each)	—	0.095 (3.3 oz.)	—	0.095 (3.3 oz.)	—	0.095 (3.3 oz.)	—	0.095 (3.3 oz.)	Tutela MRM2
Front/rear brake circuits	0.405 (0.71 pt.)	—	0.43 (0.76 pt.)	—	0.43 (0.76 pt.)	—	0.43 (0.76 pt.)	—	Tutela DOT3
Brake circuits with antilock braking system (ABS)	0.46 (0.81 qt.)	—	0.525 (0.92 pt.)	—	0.525 (0.92 pt.)	—	0.525 (0.92 pt.)	—	
Windscreen, rear screen and headlight washer reservoir	4.80 (4.2 qt.)	—	4.80 (4.2 qt.)	—	4.80 (4.2 qt.)	—	4.80 (4.2 qt.)	—	Mixture of water and Autofà DP1 ***

* Product specifications are given on pp. 144-5.

** Petrol engines are designed to operate with leaded or unleaded premium petrol (minimum octane no. 95).

*** See *A note about some fluids* on the next page.

Oil change and filter replacement after free service coupon

	Recommended oil	Change interval	
		Oil	Filter
Dedra 1.6 i.e.	SELENIA	20,000 km or 12 months	20,000 km
Dedra 1.8 i.e. Dedra 2.0 i.e.	SELENIA	15,000 km or 12 months	15,000 km
Dedra 2.0 turbo ds	SELENIA Turbo Diesel	7,500 km or 12 months	15,000 km

It is recommended you do not top up with oils having different specifications.

Oil consumption

The average oil consumption (grams/100 km) values are:

Dedra 1.6 i.e.	50
Dedra 1.8 i.e.	90
Dedra 2.0 i.e.	90-100
Dedra 2.0 turbo ds	100

A note about some fluids

- A 50-50 mixture of FIAT **Parafiu**[®] coolant and distilled water gives freeze protection down to -35°C .
- Mix thirty centilitres of **Autofà n. 9 DP1** liquid with a litre of water for summer use; in cold climates where temperatures can go down to -20°C mix equal amounts of water and **Autofà n. 9 DP1**. When temperatures may go lower than -20°C use **Autofà n. 9 DP1** undiluted.

LUBRICANT AND FLUID SPECIFICATIONS

Product characteristics

USE	CHARACTERISTICS	RECOMMENDED LUBRICANTS AND FLUIDS	SPECIFIC APPLICATION
Petrol engine lubricants	SAE 15W/40 semisynthetic multigrade oil; exceeds API, SG and CCMC-G4 specifications, CUNA NC 610-01 CL-G2.	SELENIA	Operating range – 15°C-40°C*
Diesel engine lubricants	SAE 15W/40 semisynthetic multigrade oil; exceeds API-CD and CCMC PD2 specifications, CUNA NC 610-01 CL-PD1.	SELENIA Turbo diesel	Operating range – 15°C-40°C*
Lubricants and greases for power transmission components	SAE 80 W/90, non-EP anti-wear oil.	TUTELA ZC 90	Transaxles without hypoid gears
	SAE 80 W EP oil; meets API-GL-4 and MIL-L-2105 specifications.	TUTELA ZC 80/S	Manual transmissions and differentials
	SAE 80 W/90 EP oil for standard and limited-slip differentials; meets API-GL-4 and MIL-L-2105 specifications.	TUTELA W 90/MDA	Hypoid differentials Limited-slip differentials Steering gear
	Molybdenum disulphide, lithium-soap base grease; NLGI consistency no. 2	TUTELA MRM 2	Constant-velocity joints
	Lithium-soap grease; NLGI consistency no. 3	TUTELA MR 3	Wheel bearings Steering tie rods
Steering gear lubricant	Lithium-soap grease; NLGI consistency no. 000; contains molybdenum sulphide.	K 854	

* For temperatures below – 15°C use SAE 10 W/30 oils (Selenia 10 W/30 or Selenia Turbo diesel 10 W/30 are recommended).

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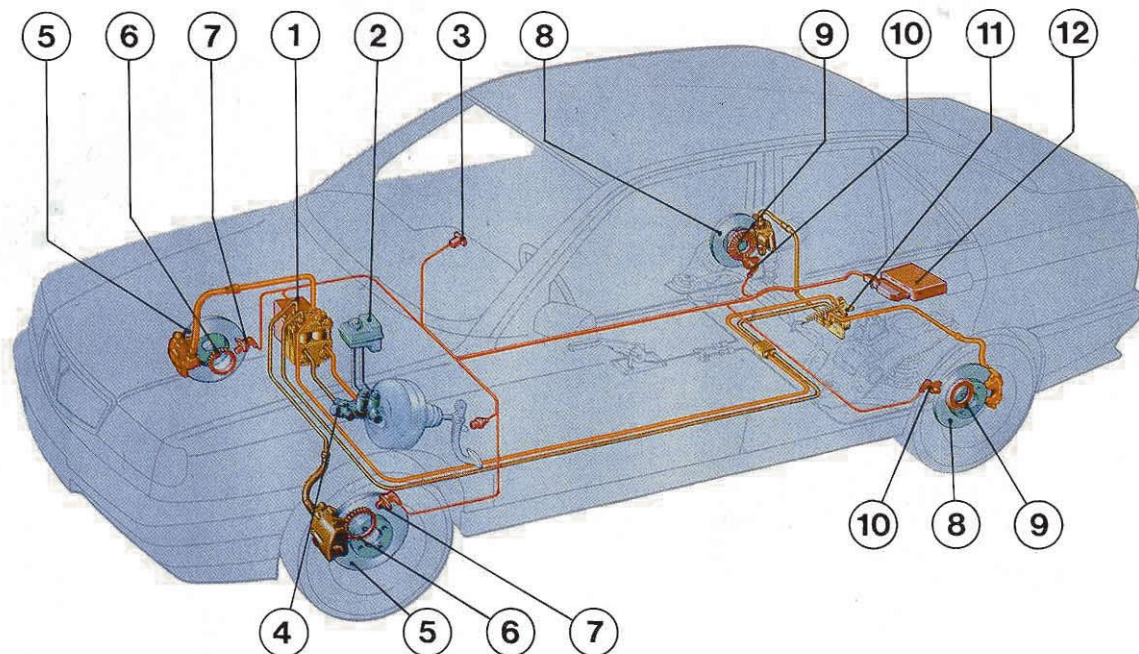
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APPENDIX

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Antilock braking system (ABS)	
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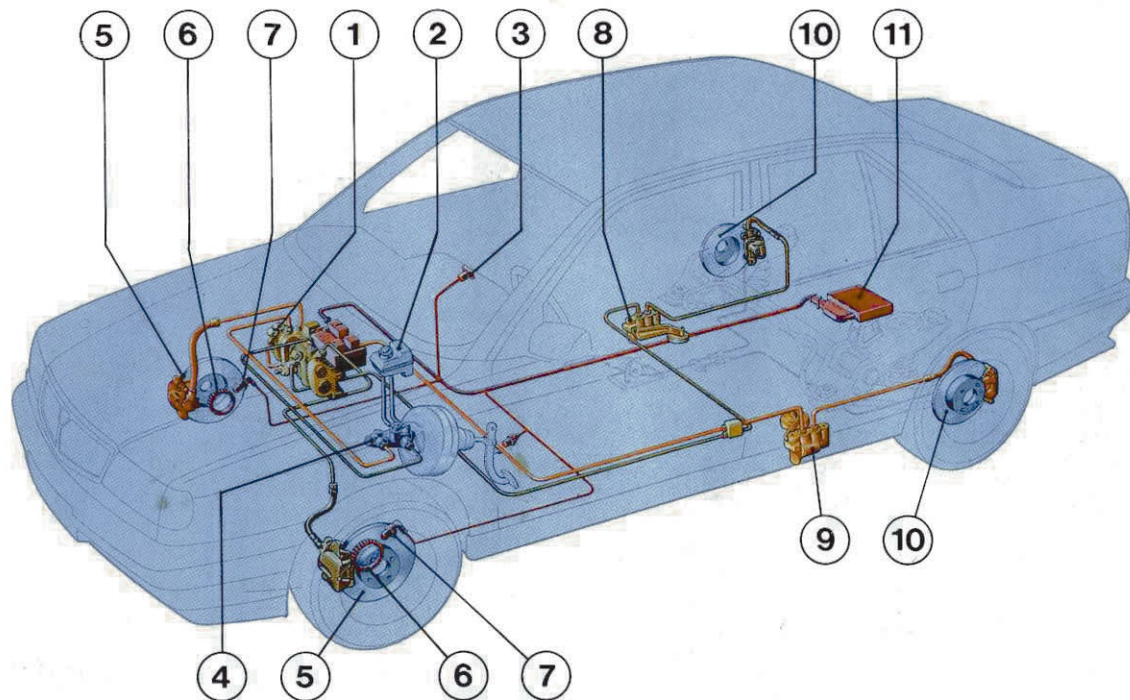
If any accessories not described in this handbook are to be installed, the relevant electrical connections to the vehicle's system must be made via a relay connected to the ignition switch.



1. Hydraulic modulator.
2. Brake fluid reservoir.
3. Warning light.
4. Master cylinder.
5. Front wheel discs.
6. Front pulse rings.

7. Front wheel speed sensors.
8. Rear wheel discs.
9. Rear pulse wheels.
10. Rear wheel speed sensors.
11. Rear wheel pressure proportioning valve.
12. Electronic control unit.

ANTILOCK BRAKING SYSTEM (ABS) - Dedra 1.6 i.e. and 1.8 i.e.



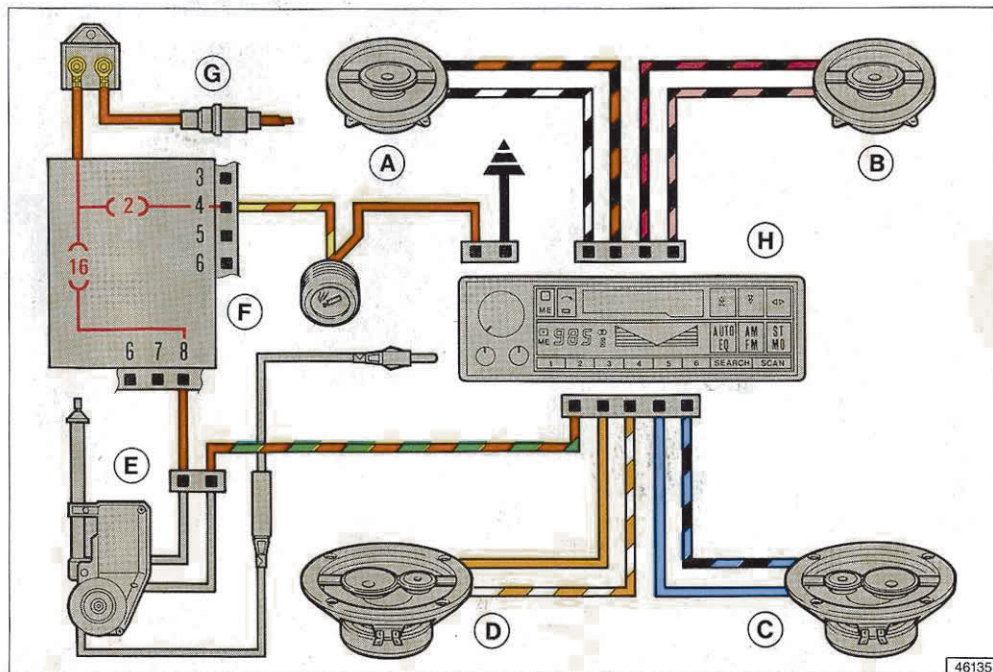
1. Hydraulic modulator.
2. Brake fluid reservoir.
3. Warning light.
4. Master cylinder.
5. Front wheel discs.
6. Front pulse rings.

7. Front wheel speed sensors.
8. Right rear wheel pressure proportioning valve.
9. Left rear wheel pressure proportioning valve.
10. Rear wheel discs.
11. Electronic control unit.

RADIO INSTALLATION

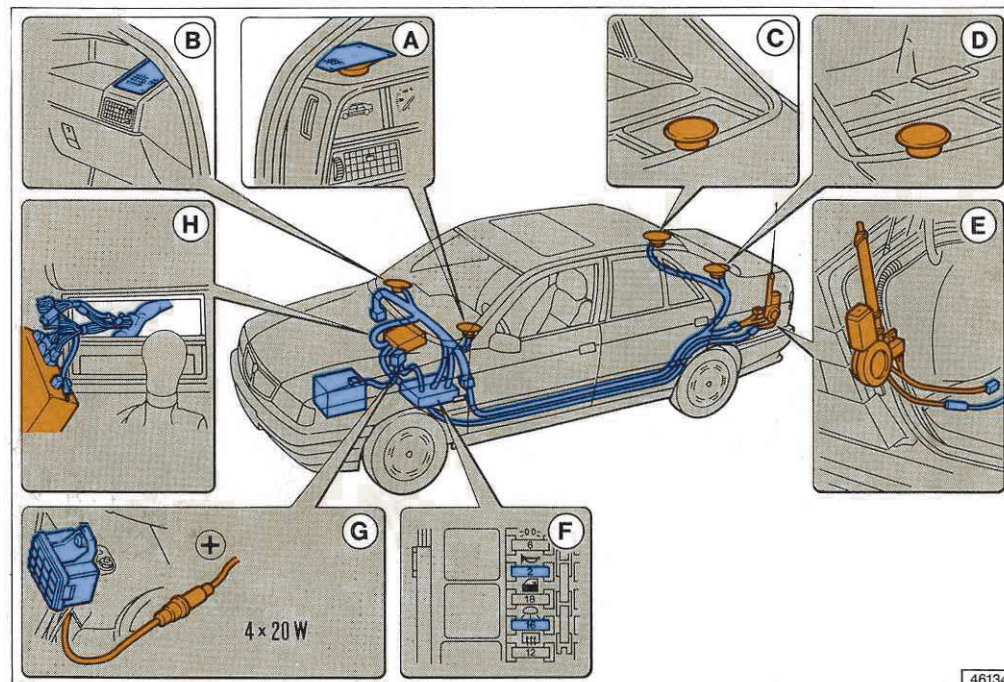
Schematic showing additional wiring

- A. Left front speaker.
- B. Right front speaker.
- C. Right back speaker.
- D. Left back speaker.
- E. Power antenna.
- F. Fuse box.
- G. Supplementary amplifier power supply fuse (only if system installed has power exceeding $4 \times 20\text{W}$).
- H. Radio.



RADIO INSTALLATION

Location of components



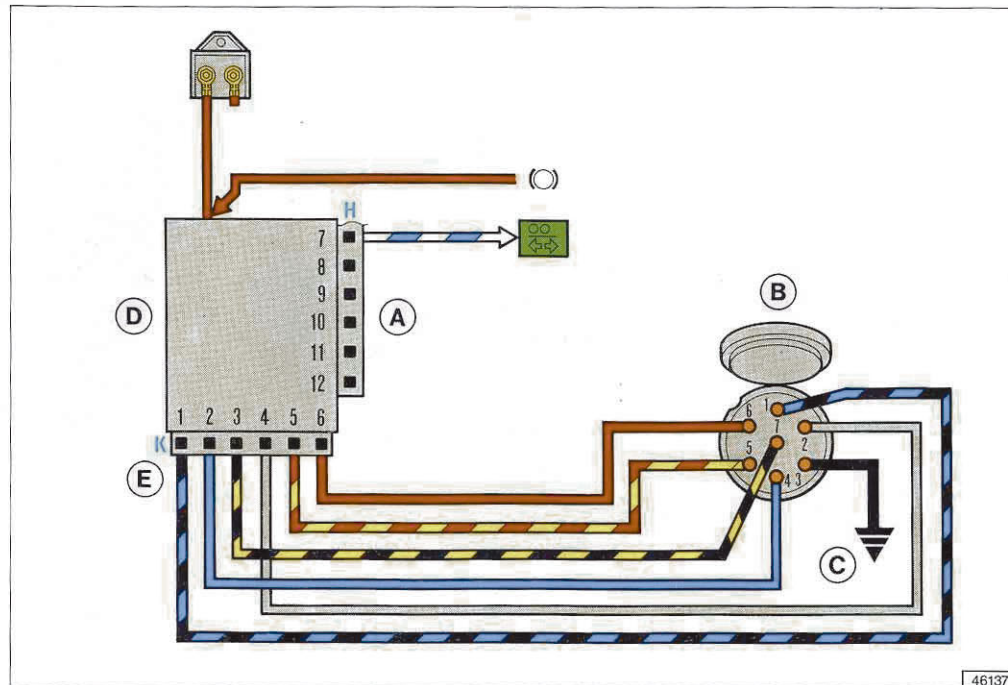
- A. Left front speaker housing.
- B. Right front speaker housing.
- C. Right rear speaker housing.
- D. Left rear speaker housing.
- E. Power antenna housing.
- F. Position of fuses in box protecting radio circuit.
- G. Supplementary fuse cutout (only if amplifier power is greater than 4×20 W).
- H. Radio housing.

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INSTALLING A TOW HITCH

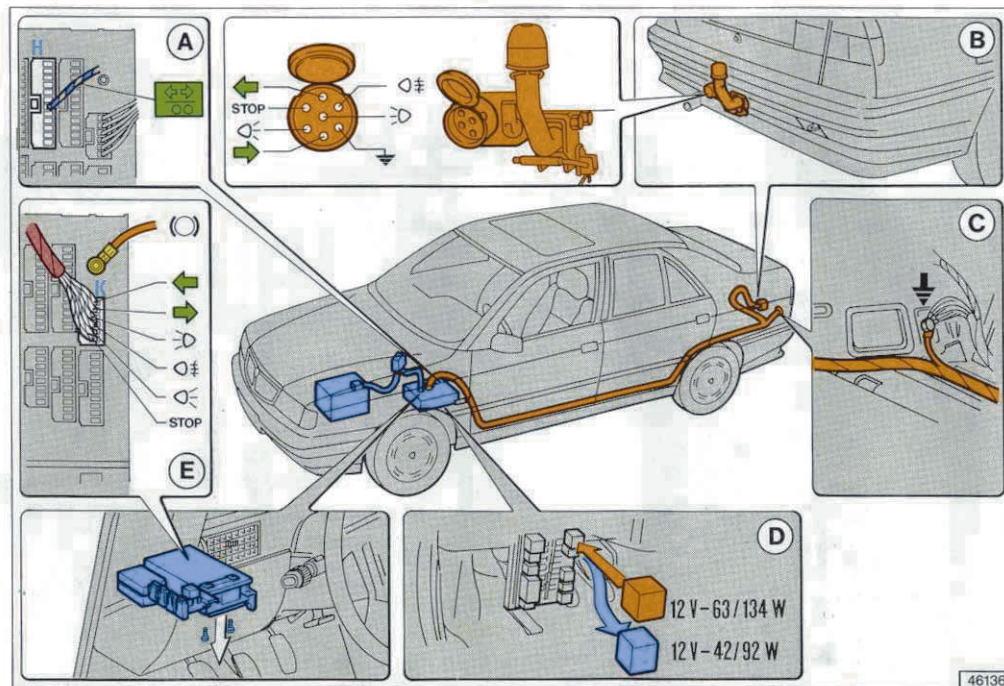
Wiring schematic

- A. Terminal "H" in the fuse box for trailer direction indicators.
- B. 7-pin socket.
- C. Ground cable from 7-pin socket.
- D. Fuse box.
- E. Terminal "K" from the fuse box to 7-pin socket.



INSTALLING A TOW HITCH

Location of connections and hitch



- A. Cable connection of the trailer direction indicators (terminal "H" in fuse box).
- B. Installation of coupling and 7-pin socket.
- C. Ground cable from 7-pin socket.
- D. Replacement of the direction indicator flasher unit.
- E. Cable connection from 7-pin socket to terminal "K" in the fuse box. The trailer's electric braking system must be connected to a branch which is directly connected to the battery.

NB - The tow hitch installer is required to attach a clearly legible plate next to the coupling made of an appropriate material with the following stamped on it:

MAXIMUM LOAD AT THE COUPLING 84 kg

MAXIMUM LOAD AT THE COUPLING 90 kg

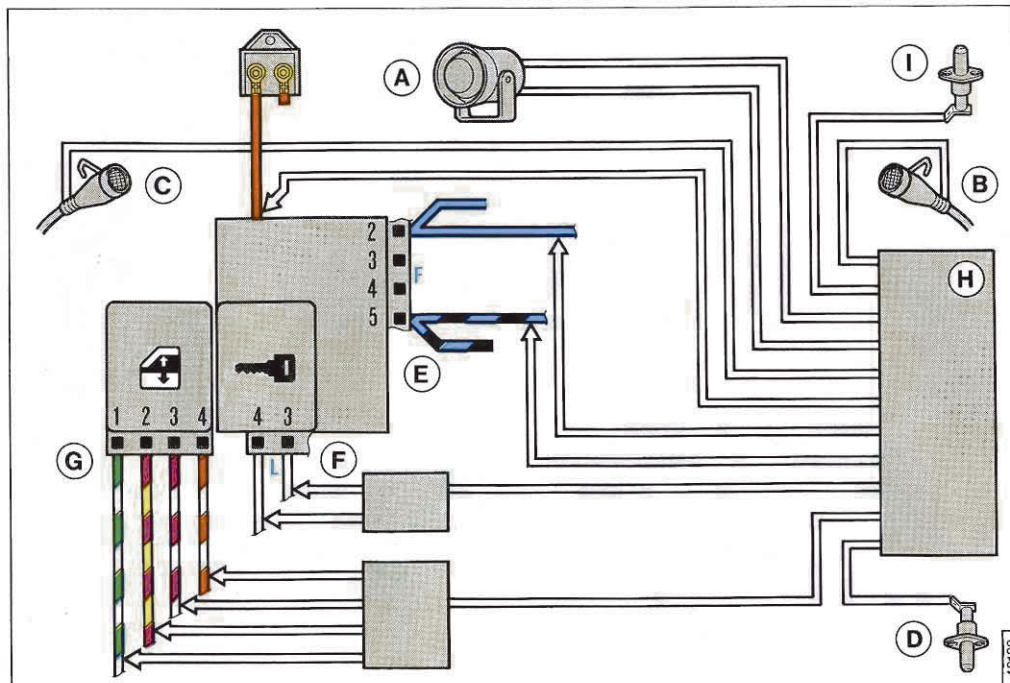
(for vehicles with a maximum permissible trailer weight of 1200 kg).

(for vehicles with a maximum permissible trailer weight of 1300 kg).

INSTALLING AN ALARM SYSTEM

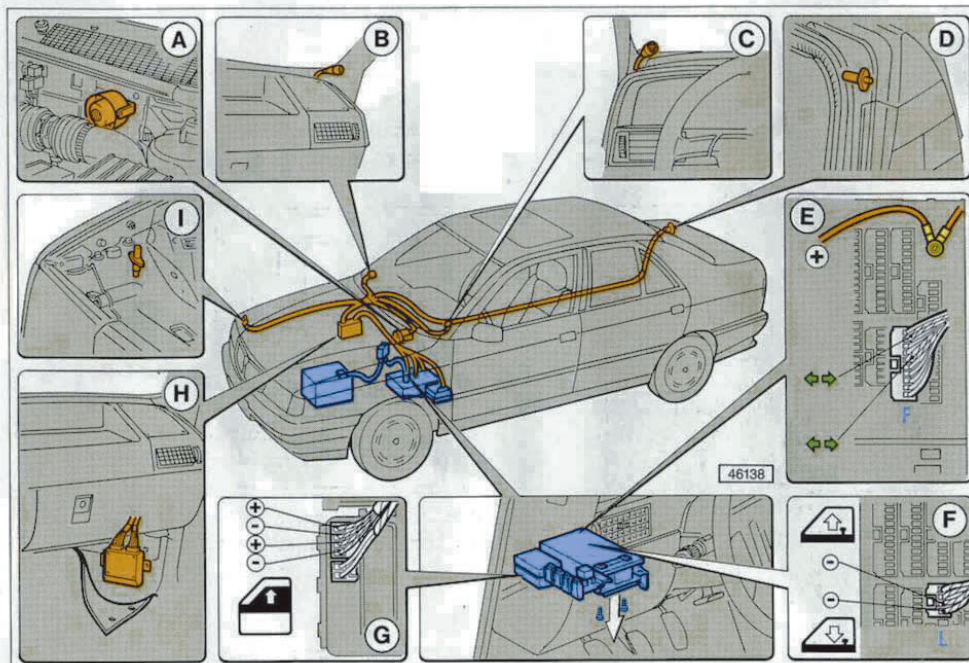
Installation schematic

- A. Siren.
- B. Ultrasonic detector.
- C. Ultrasonic detector.
- D. Boot opening detector.
- E. Fuse box terminal "F"
- F. Fuse box terminal "L"
- G. Power window control unit connections for direct control by the alarm system.
- H. Alarm system control unit.
- I. Bonnet opening detector.



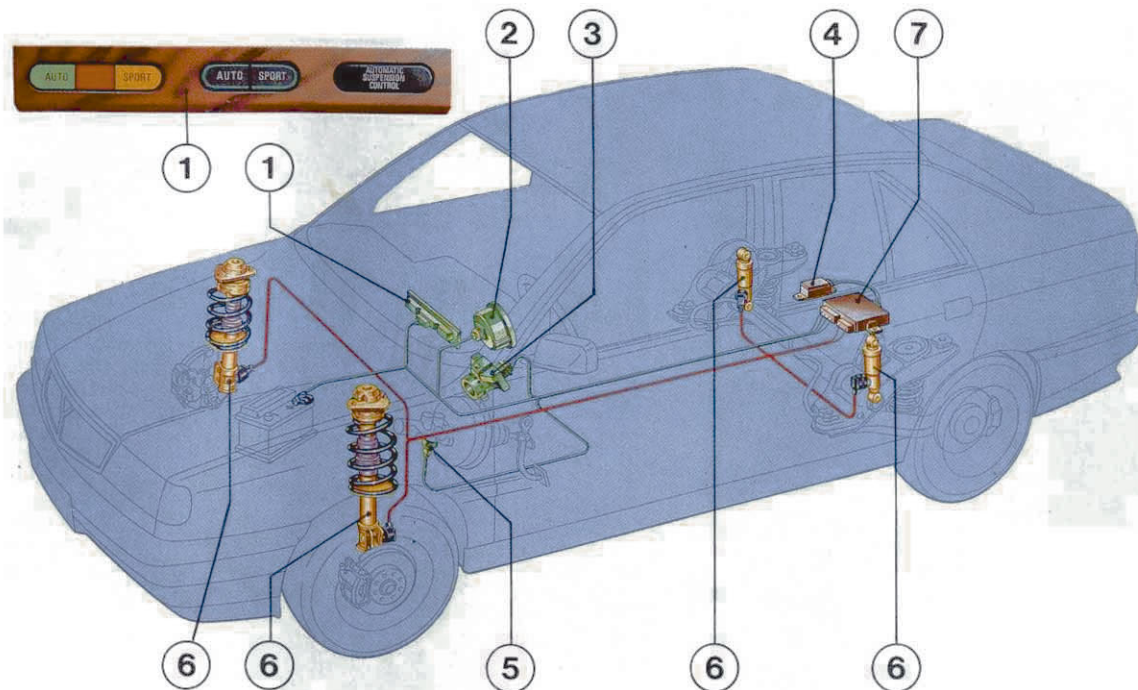
INSTALLING AN ALARM SYSTEM

Location of connections



- A. Siren installation (in engine compartment).
- B. Installation of right ultrasonic detector.
- C. Installation of left ultrasonic detector.
- D. Installation of boot opening detector.
- E. Connection to give alarm system control of the direction indicators (fuse box terminal "F"). Connect the alarm system power supply cable to a branch which is directly connected to the battery.
- F. Connection to give alarm system control of the power locks (fuse box terminal "L").
- G. Connection to give alarm system control of the power windows.
- H. Alarm system control unit installation.
- I. Installation of bonnet opening sensor.

AUTOMATIC SUSPENSION CONTROL SYSTEM



1. Dashboard control panel.
2. Vehicle speed sensor.
3. Steering wheel position and rotational speed sensor.
4. Vertical acceleration sensor.
5. Brake system sensor.
6. Damper with solenoid.
7. Electronic control unit.

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