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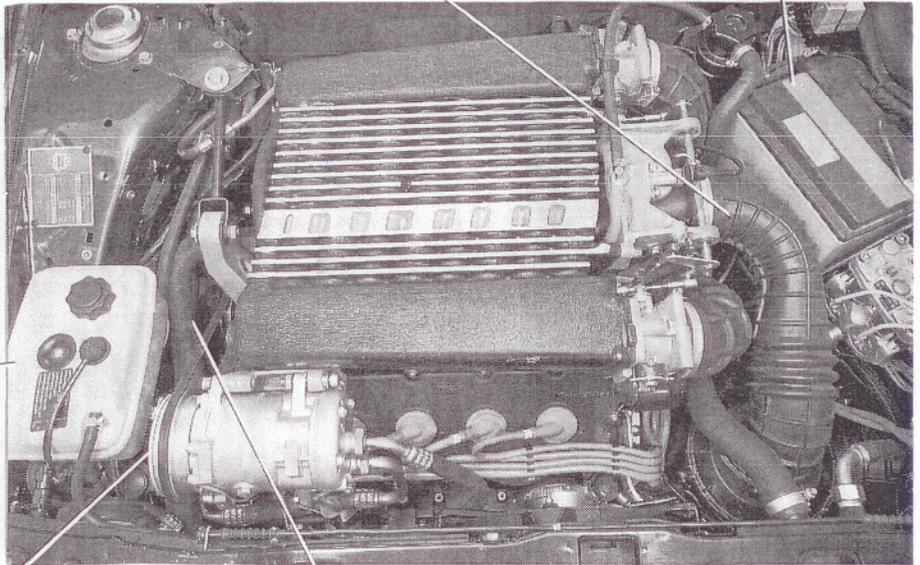
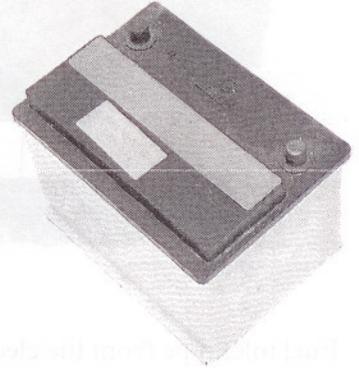
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Position the vehicle on a lift. Then, proceed as follows:

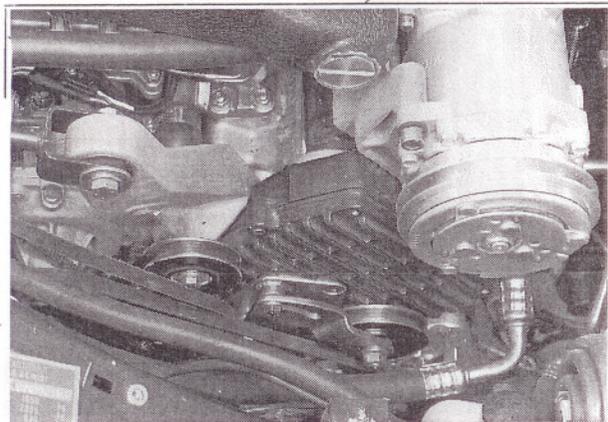
- drain the coolant;
- remove the bonnet lid;
- disconnect the insufficient engine coolant level electrical cable;
- remove the items illustrated below:



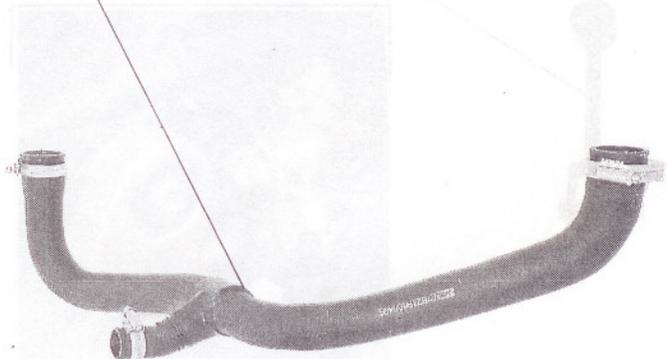
Pipe for air passing from filter to air flow meter



Coolant expansion tank



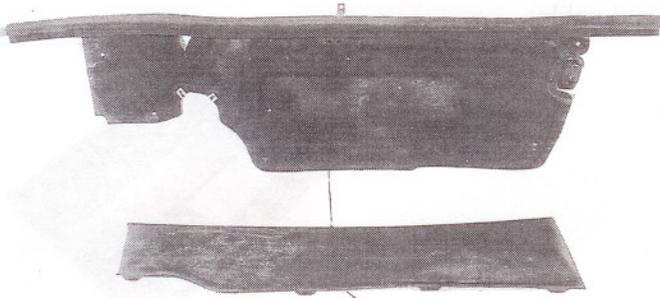
- disconnect the air conditioning compressor drive belt and position it in the engine compartment.



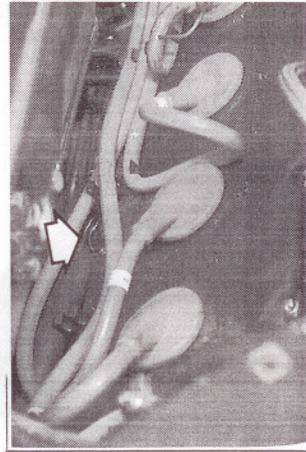
Pipe for coolant between the radiator and the expansion tank and the pump

10.

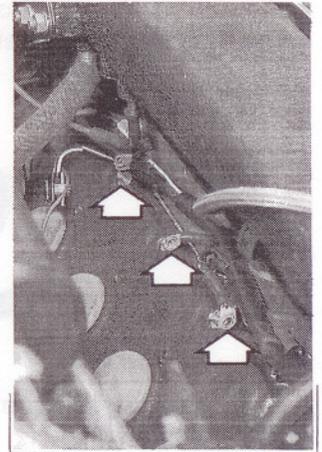
Bulkhead between engine compartment and dashboard



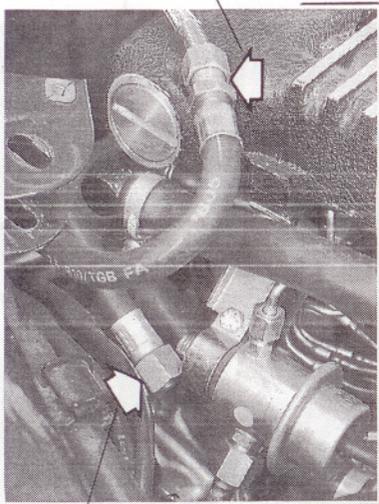
– disconnect the band fixing the servo brake pipe



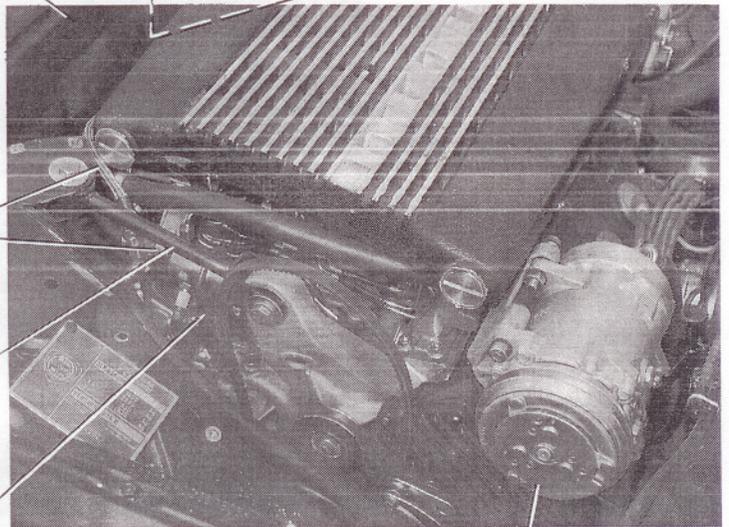
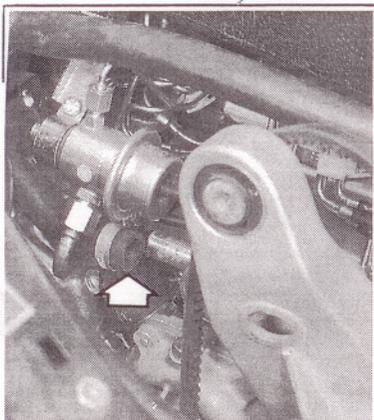
– disconnect the earth cables on the right head tappet cover



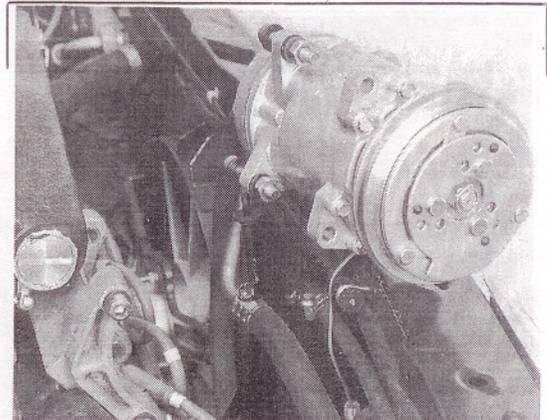
Fuel inlet pipe from the electric pump



Fuel return pipe to the tank



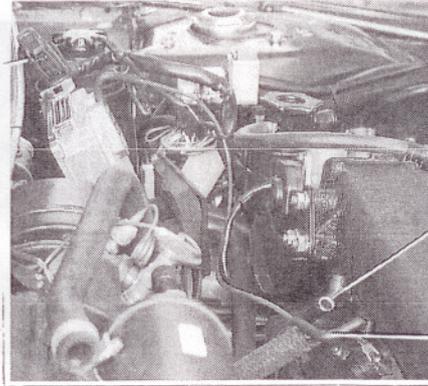
Coolant pipe between heater radiator and pump



– remove the air conditioning compressor and position it in the engine compartment without disconnecting the pipes

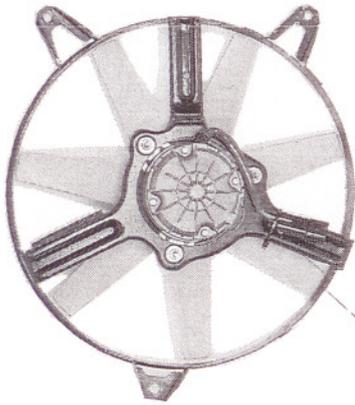
- disconnect the electrical cable for the coolant temperature sensor (KE3 Jetronic control unit signal), the coolant temperature sender unit and overheating warning light, the engine oil temperature signal cable, the air conditioning compressor supply cable, the electrical cable for the fan switch and the electrical cable for the fan supply.

Microplex electronic ignition control unit multiple connector

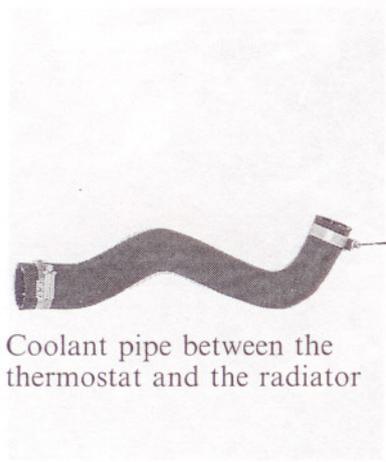
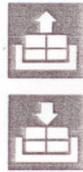


Servo brake vacuum pick up

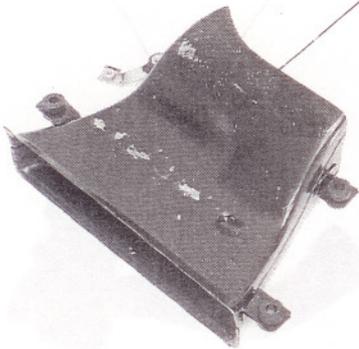
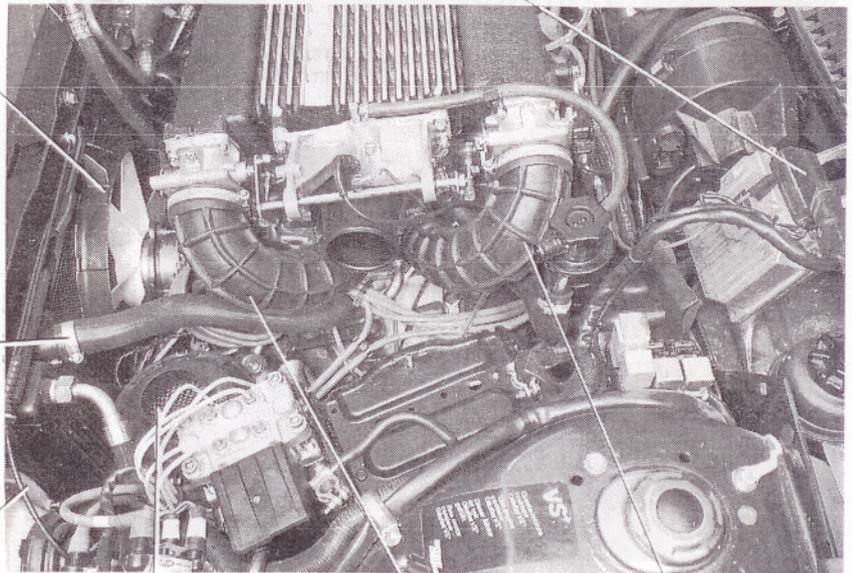
Digiplex control unit vacuum pick up



Electric fan



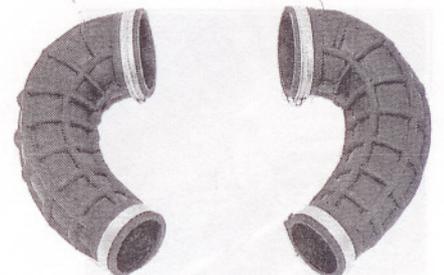
Coolant pipe between the thermostat and the radiator



Air duct on the engine oil filter and mounting



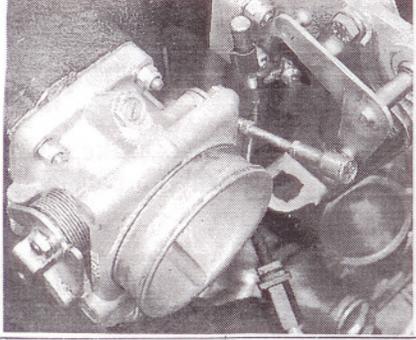
Air filter



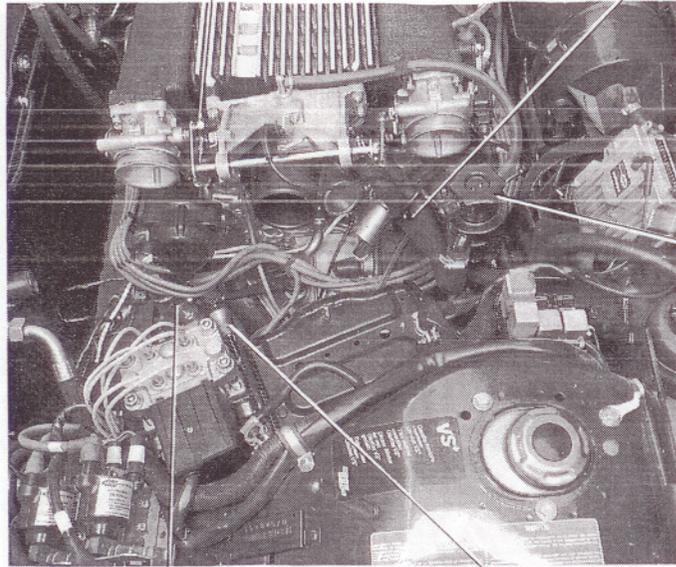
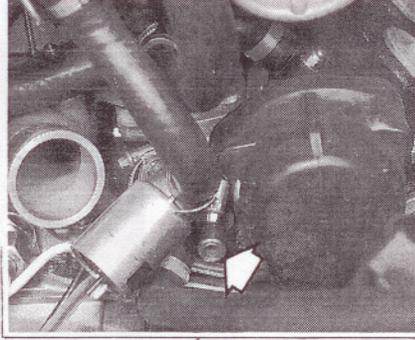
Sleeves connecting butterfly casings to air flow meter

10.

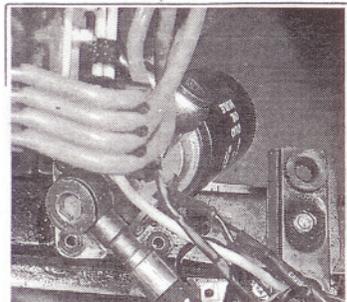
- disconnect the accelerator cable



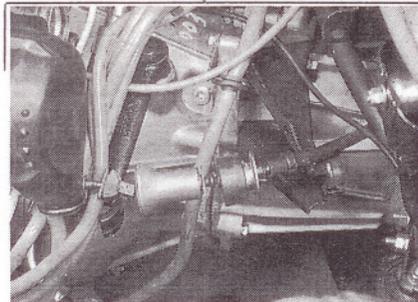
- disconnect the coolant pipe between the pump and the heater radiator



- disconnect the 4 pipes on the engine oil filler cap



- remove the oil filter mounting from the lower front cross member



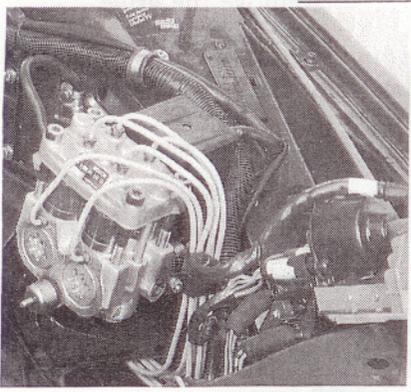
- disconnect the clutch cable



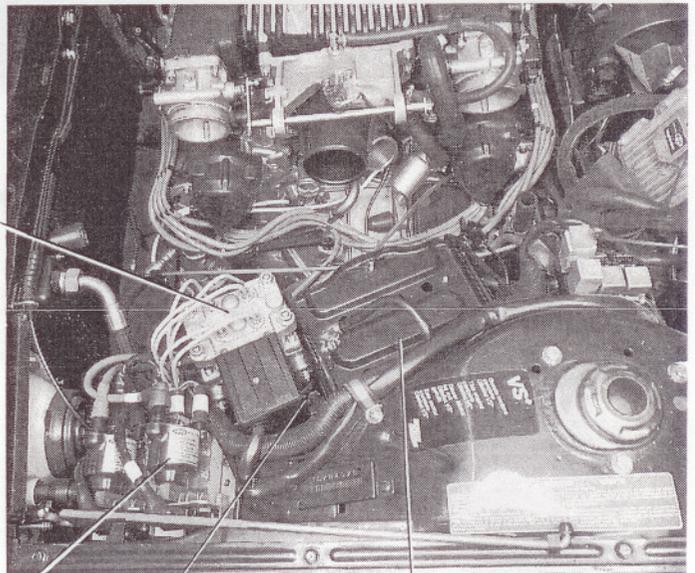
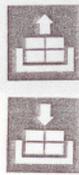
Engine oil filler

- disconnect the electrical cable for the rpm sensor, the electrical cables for the reversing light switches the earth cable (on the gearbox), the electrical cables for the electronic speedometer, the electrical cable for the switch on the butterfly valve, the electrical cable for the cold start injector, the electrical cable for the potentiometer supply (on the air flow meter), the electrical supply cable for the pressure servo-regulator (on the fuel distribution-metering device), the electrical cable signalling insufficient engine oil level, the electrical cable signalling engine oil pressure, the electrical cable signalling insufficient engine oil pressure and the idle servo-regulator electrical supply cable

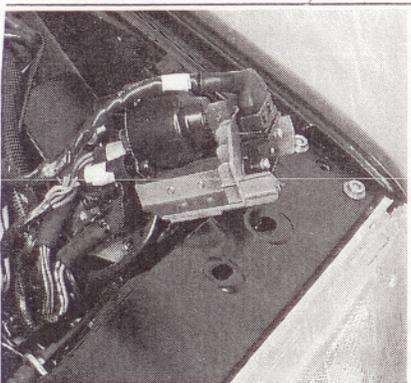
Remove the front wheels



- remove the ABS hydraulic control unit (anti-lock brakes) from the mounting casing



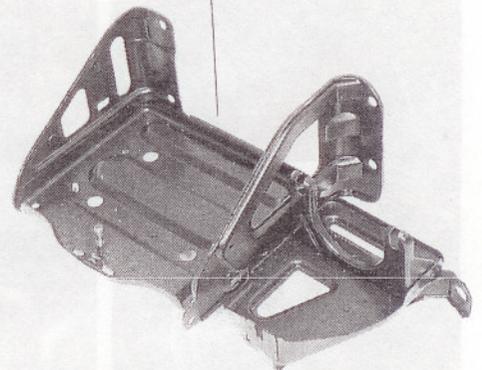
Remove the plastic front wheel arch liners



- remove the rear ignition unit with coil

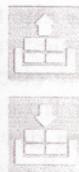
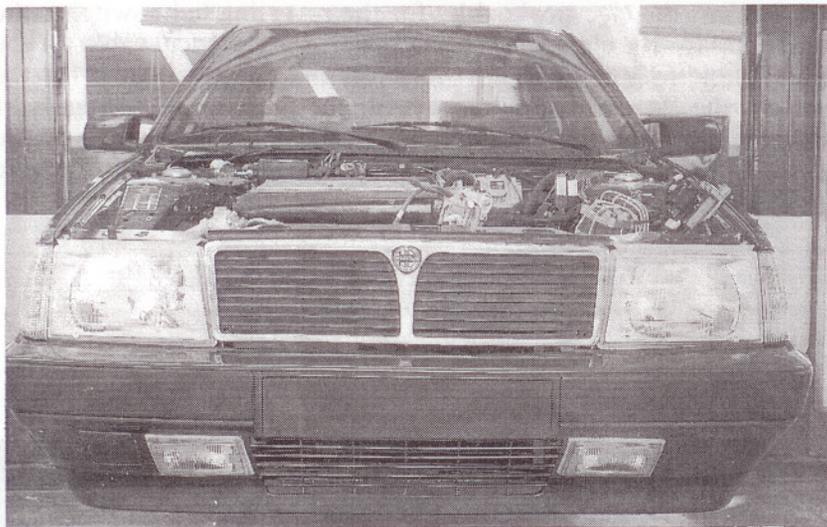


Mounting for battery and ABS hydraulic control unit

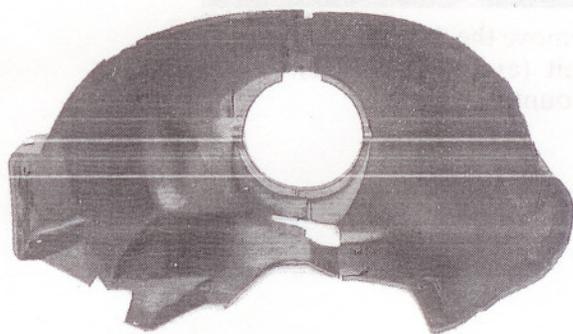
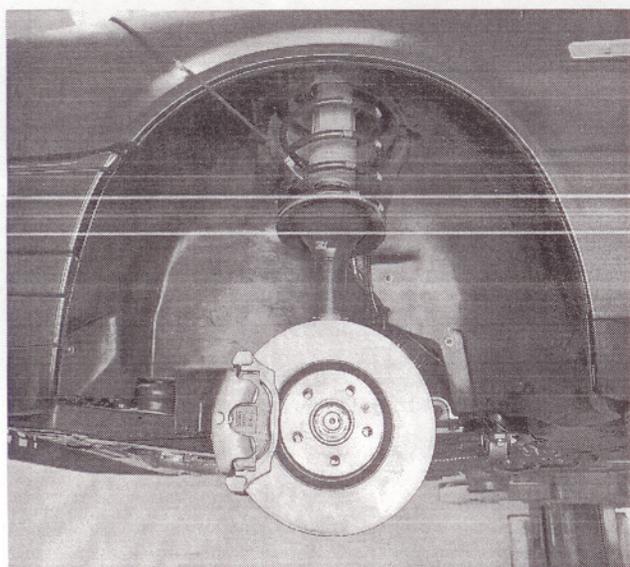


Mounting for battery and ABS hydraulic control unit

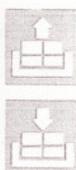
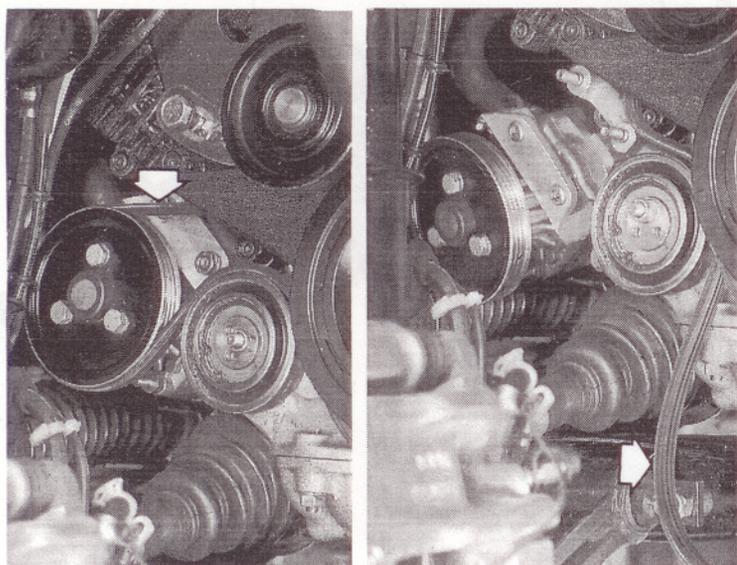
10.



Remove the front wheels
Remove the grille



Remove the plastic front wheel arch liners



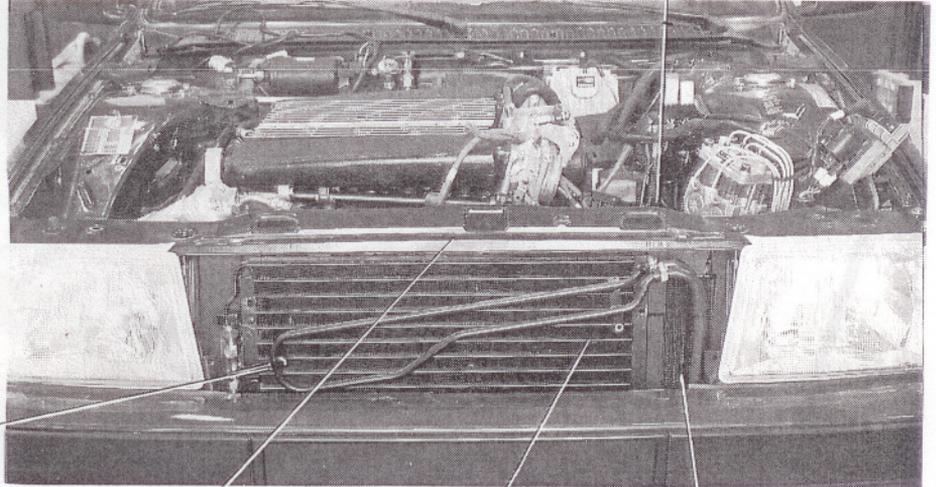
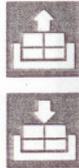
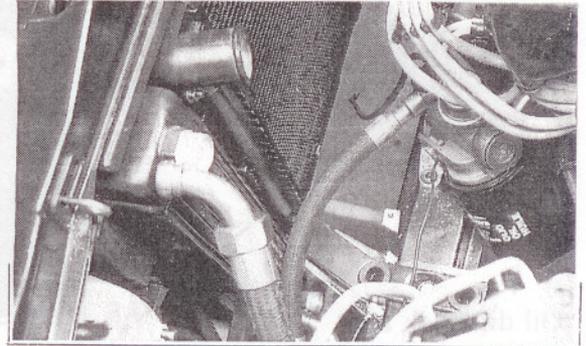
Remove the servotronic power assisted steering pump drive belt.
Remove the power assisted steering pump and position it in the engine compartment without disconnect the oil pipes.

- disconnect the electrical supply cables from the starter motor;
- disconnect the alternator electrical supply cables;

Engine oil filter complete with mounting and pipes connected to cooling radiator

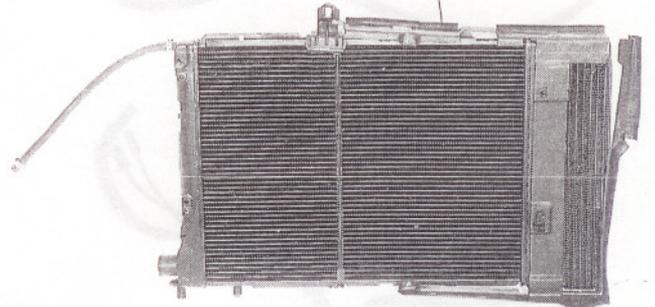


- remove the engine oil pipes from the mounting fixing the oil filter to the crankcase and from the mounting fixing the oil filter to the cooling radiator



- remove the servotronic power assisted steering oil circuit cooling coil

- remove the condenser and turn it over towards the outside of the vehicle;



- disconnect the electrical connections and remove the right and left front side lights;
- disconnect the bonnet release cable;
- disconnect the electrical connections and remove the right and left headlamps complete with the upper front cross member.

Engine coolant radiator and engine oil cooling radiator complete with plastic surround.

Engine

Removing-refitting power unit

10.

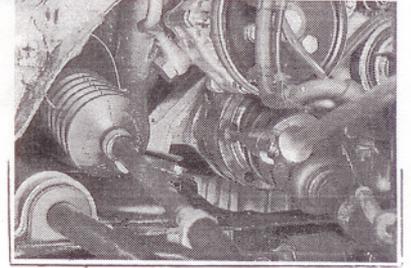
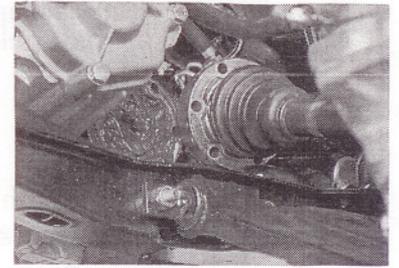
– raise the vehicle and remove the items illustrated below from underneath:

– remove the 2 drive shafts, right and left

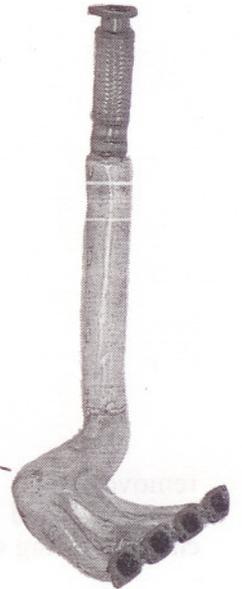
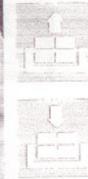
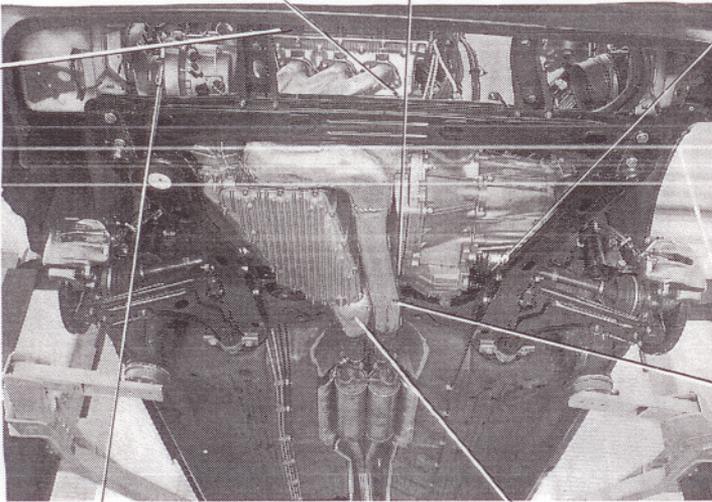
Starter motor heat shield



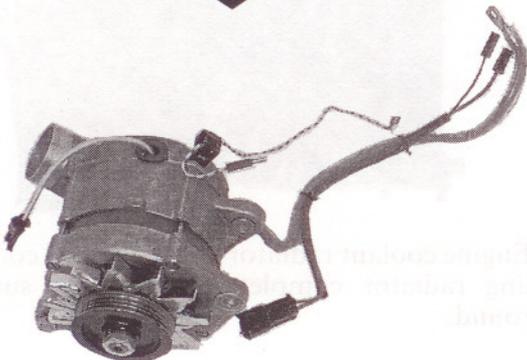
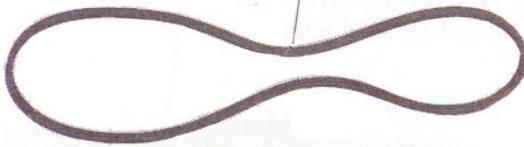
– remove the 2 gear engagement and selector levers



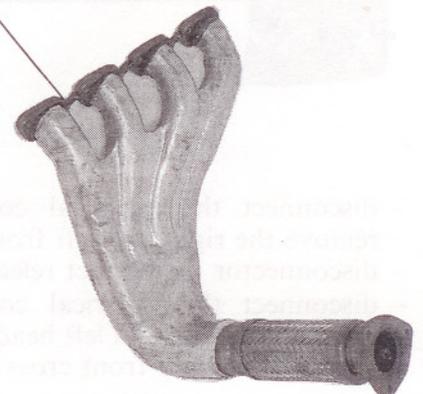
Oil dip stick and guide

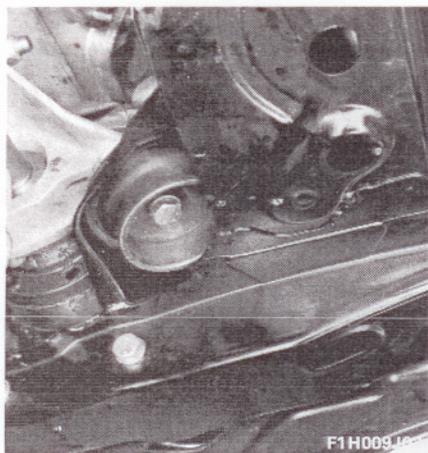
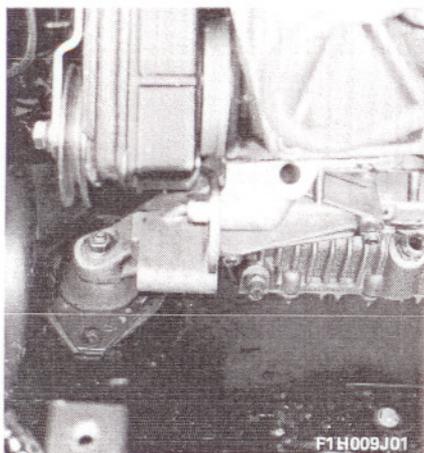


Front exhaust manifold for left head

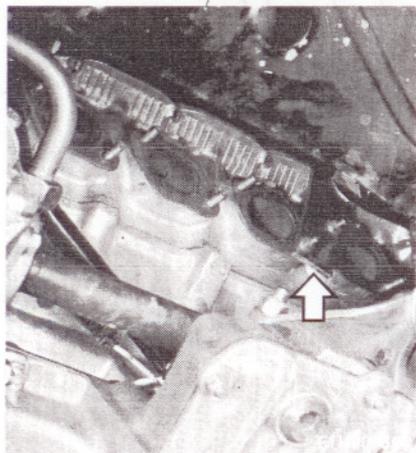
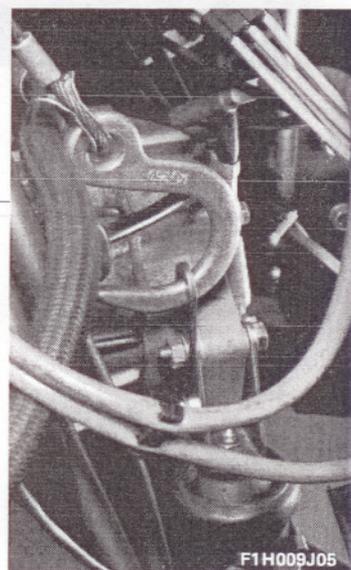
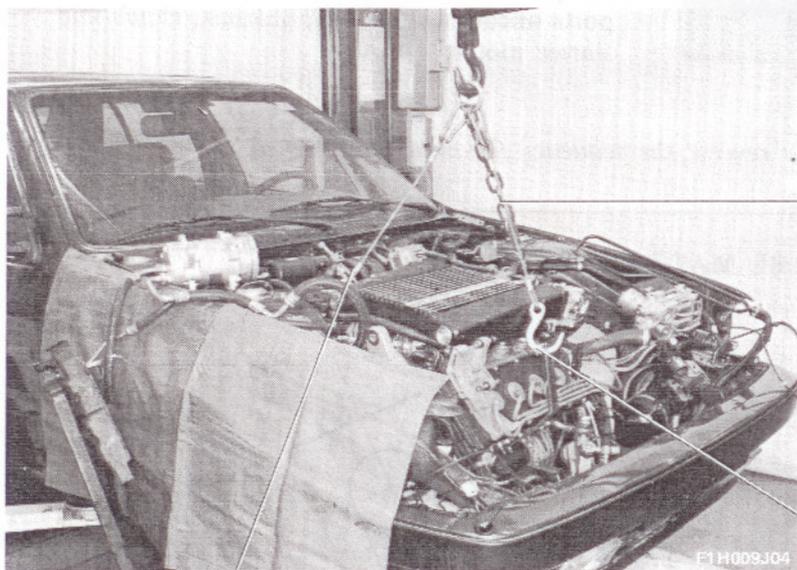


Front exhaust manifold for right head

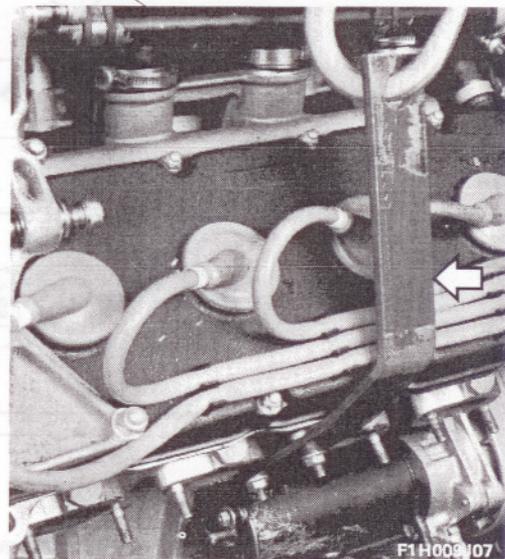




— lower car lift and disconnect 3 power unit supports from body;

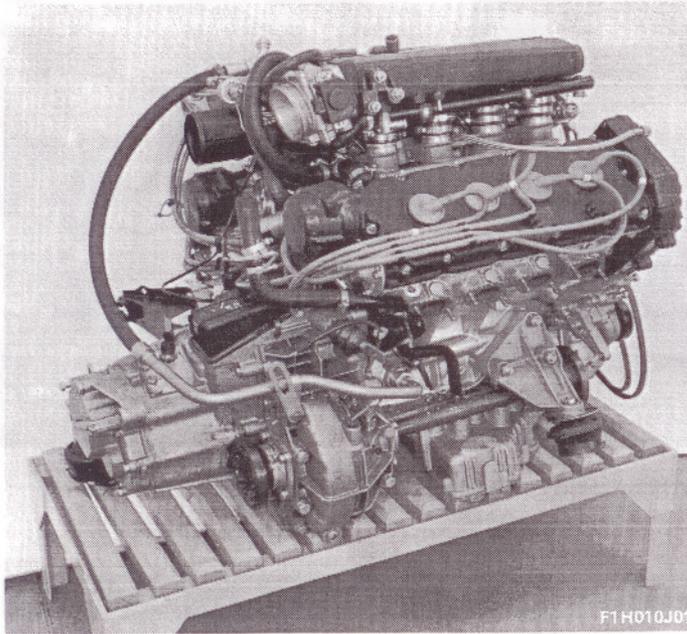


— position two lifting brackets (see dimensions overleaf) onto exhaust manifold studs (as shown by the arrows);
— position universal hook 1860592000 onto lifting bracket at gearbox; then put power unit under slight tension by hoist;



— suitably tilt the engine and lift it;

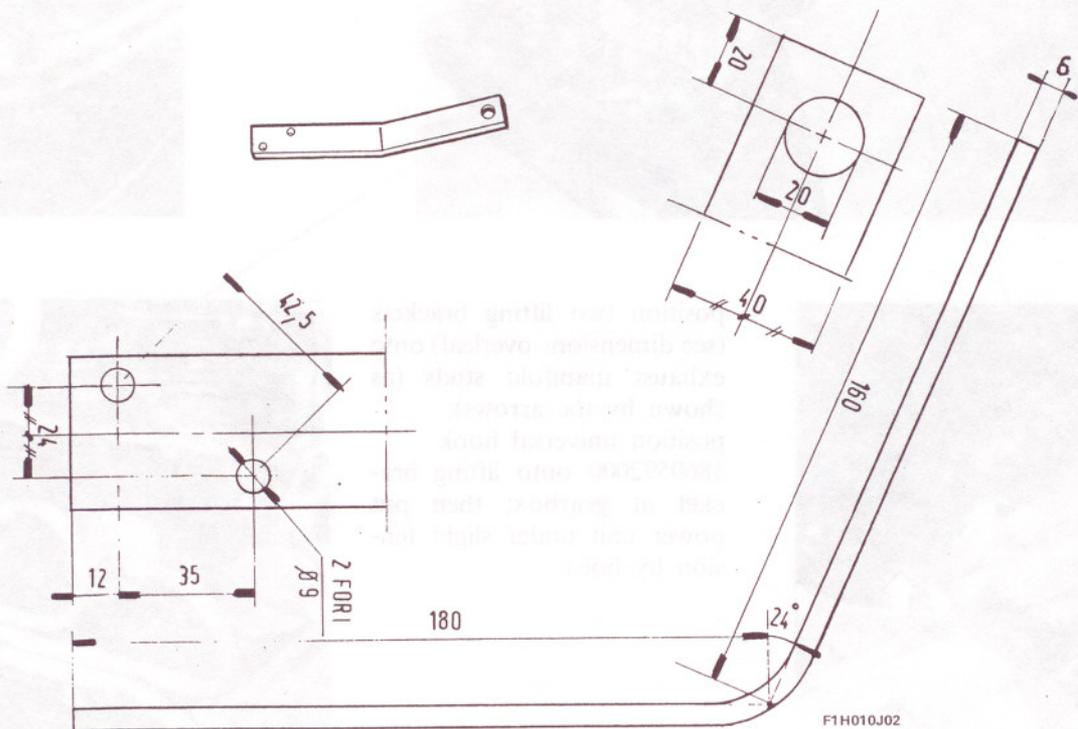
10.



- rest power unit on board and remove the 3 supports anchoring to body, gearbox, clutch and starter motor.

NOTE In order to refit the power unit suitably reverse the sequence followed for removal.

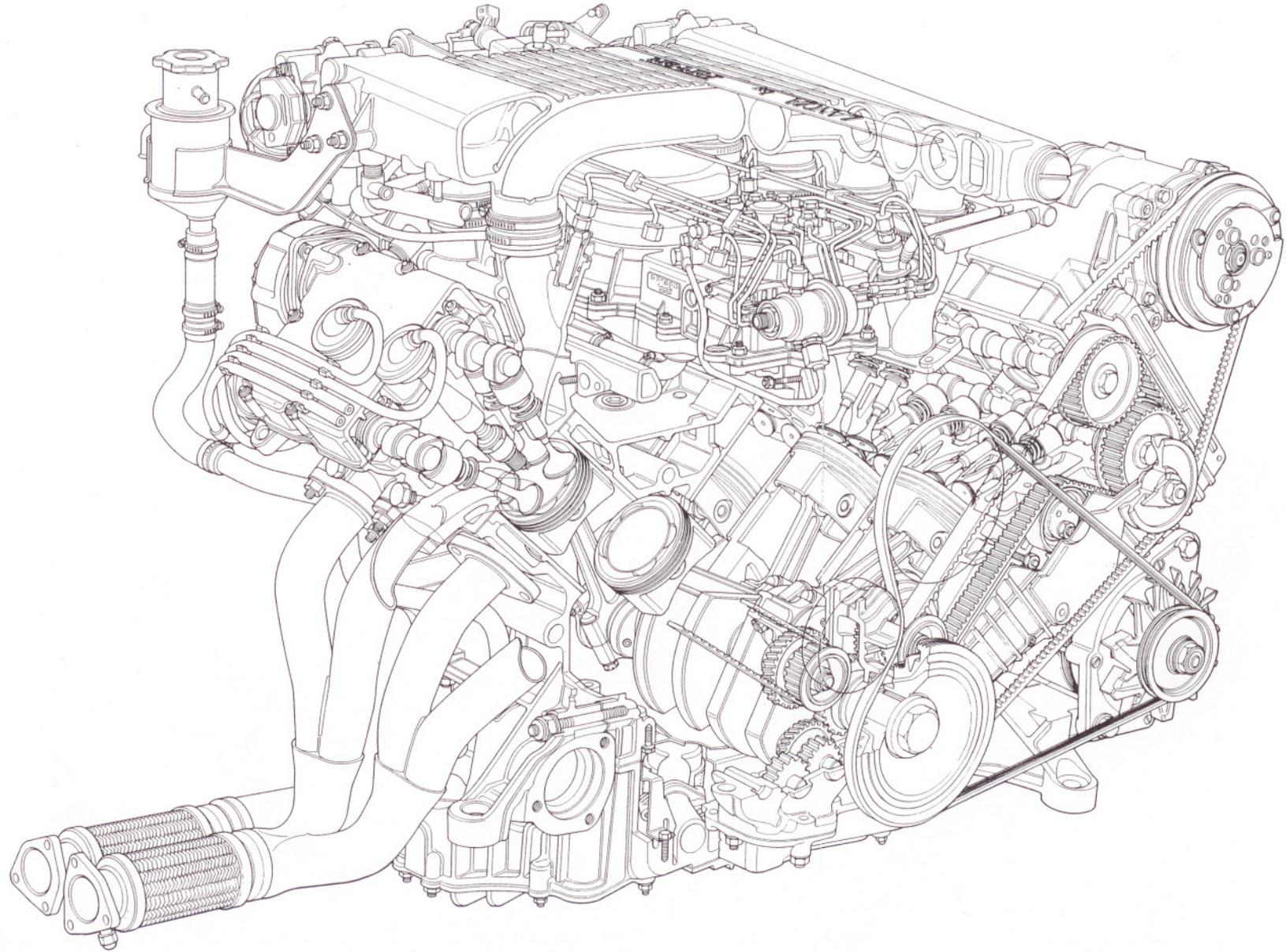
TOOLS TO BE MADE ON THE SPOT



Pair of brackets to be used with universal hook 1860592000 and 1860592010 for removing/refitting power unit.

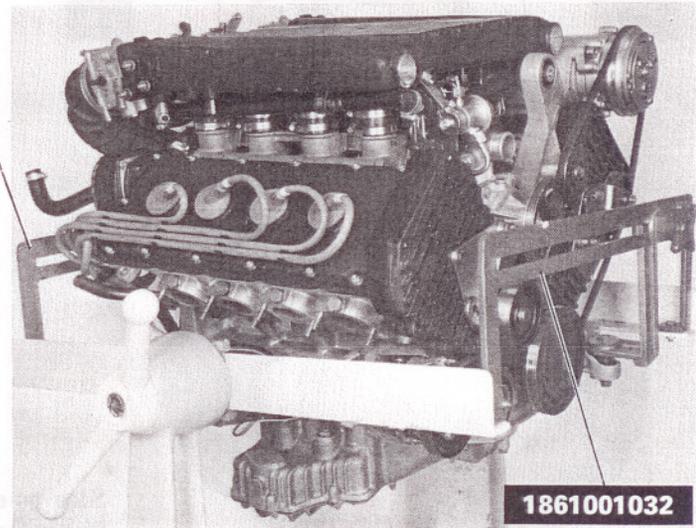
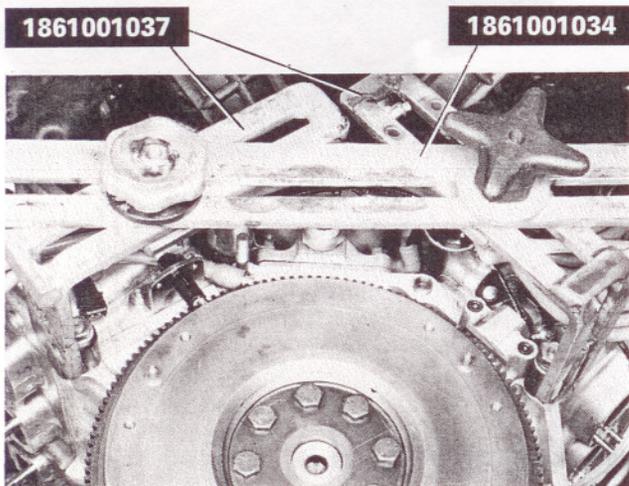
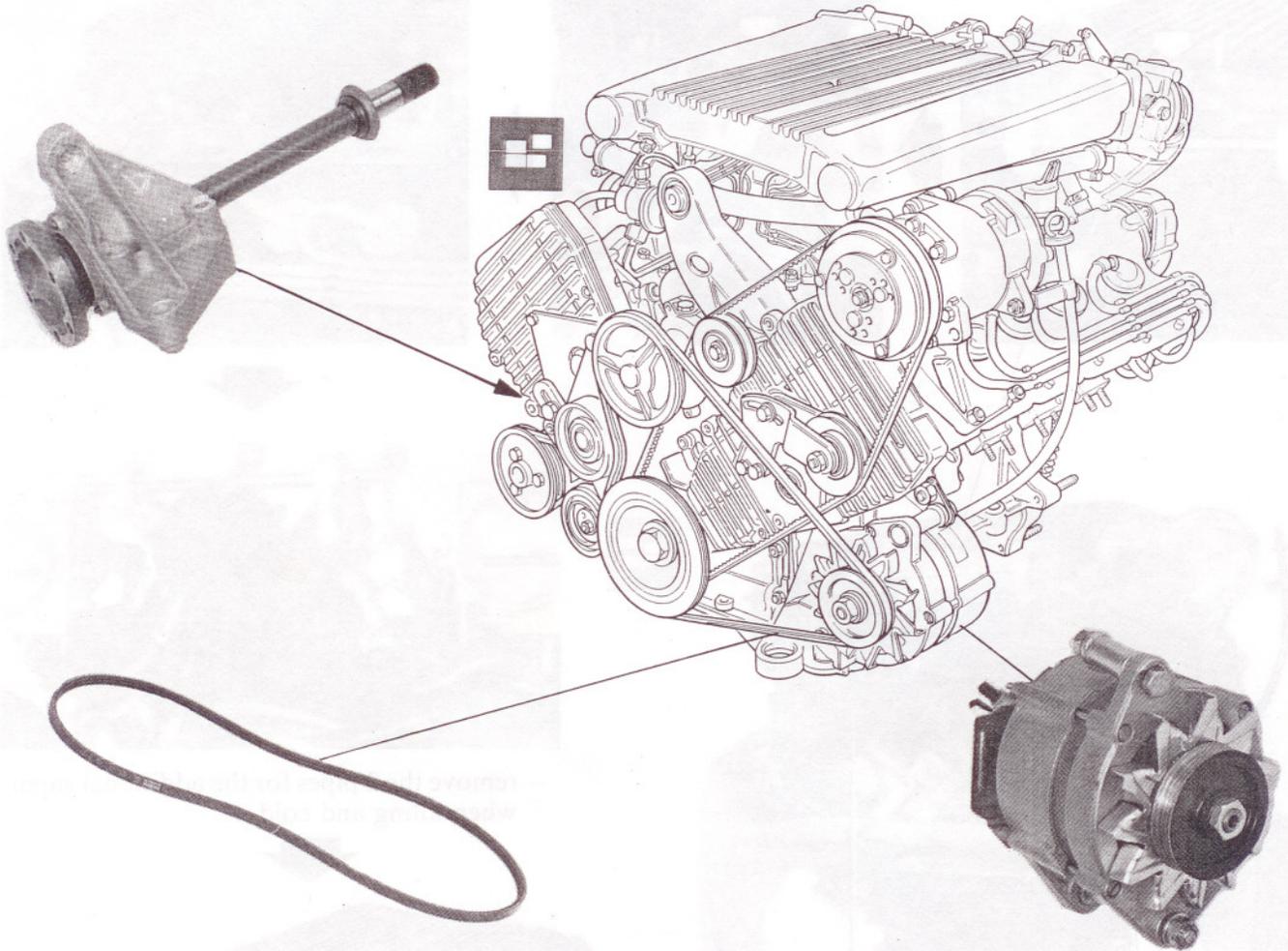
10.

DIAGRAMMATIC VIEW OF THE ENGINE, PARTIAL CROSS SECTION



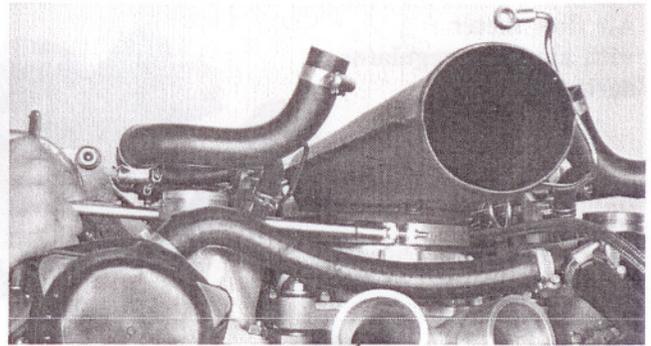
ORDER OF OPERATIONS

- Drain the engine oil whilst the engine is raised off the ground by the hoist;
- Before positioning the engine on the rotating stand, the intermediate drive shaft and the alternator and the drive belt must be removed;

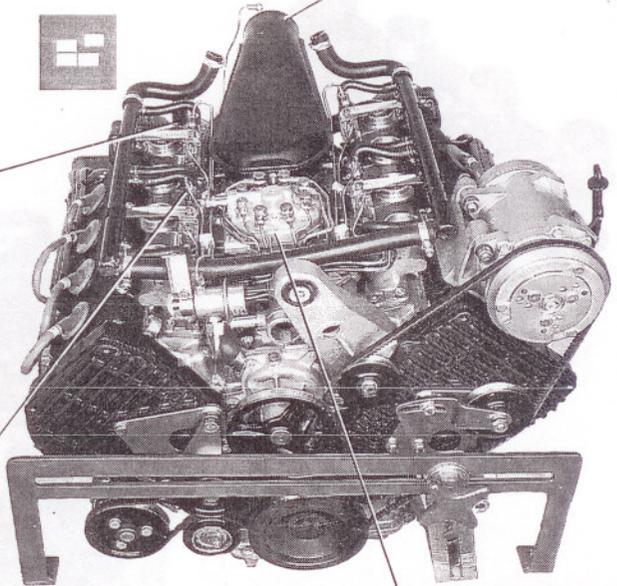
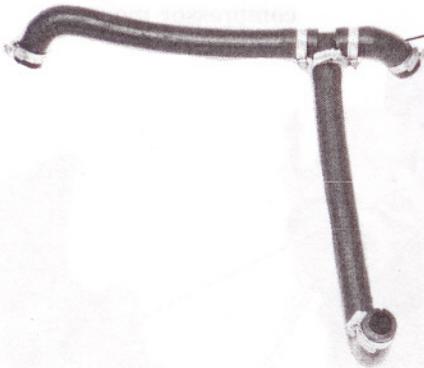


- position the engine on the rotating stand using brackets 1861001032 (timing side), 1861001034 (flywheel side) and 1861001037.

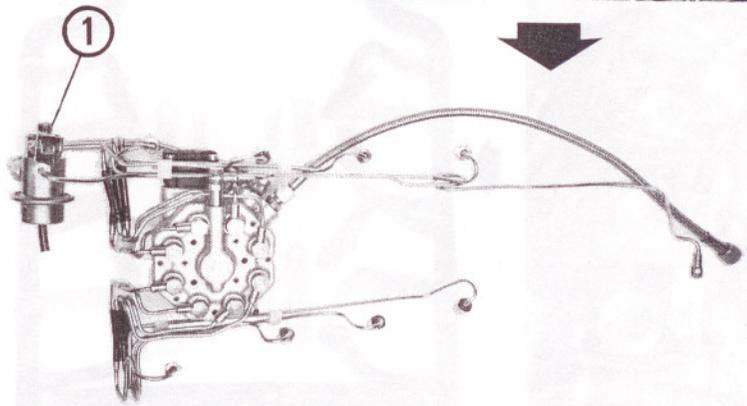
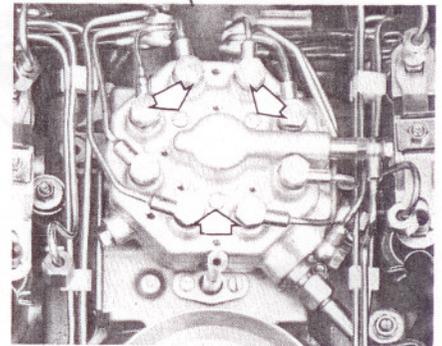
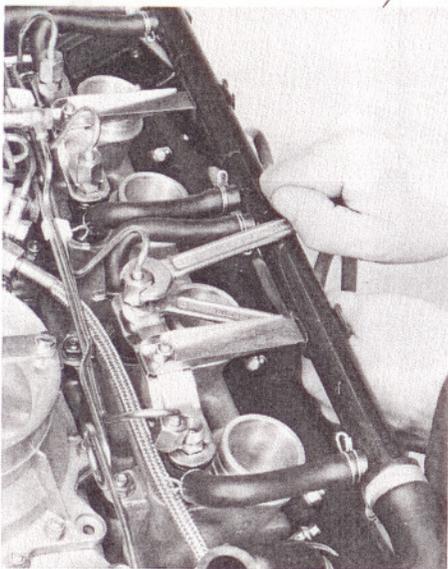
Sleeve supplying air to air flow meter



Engine oil return pipe



- disconnect the injectors



Fuel distribution-metering device with fuel pressure regulator (1) and injector supply pipes

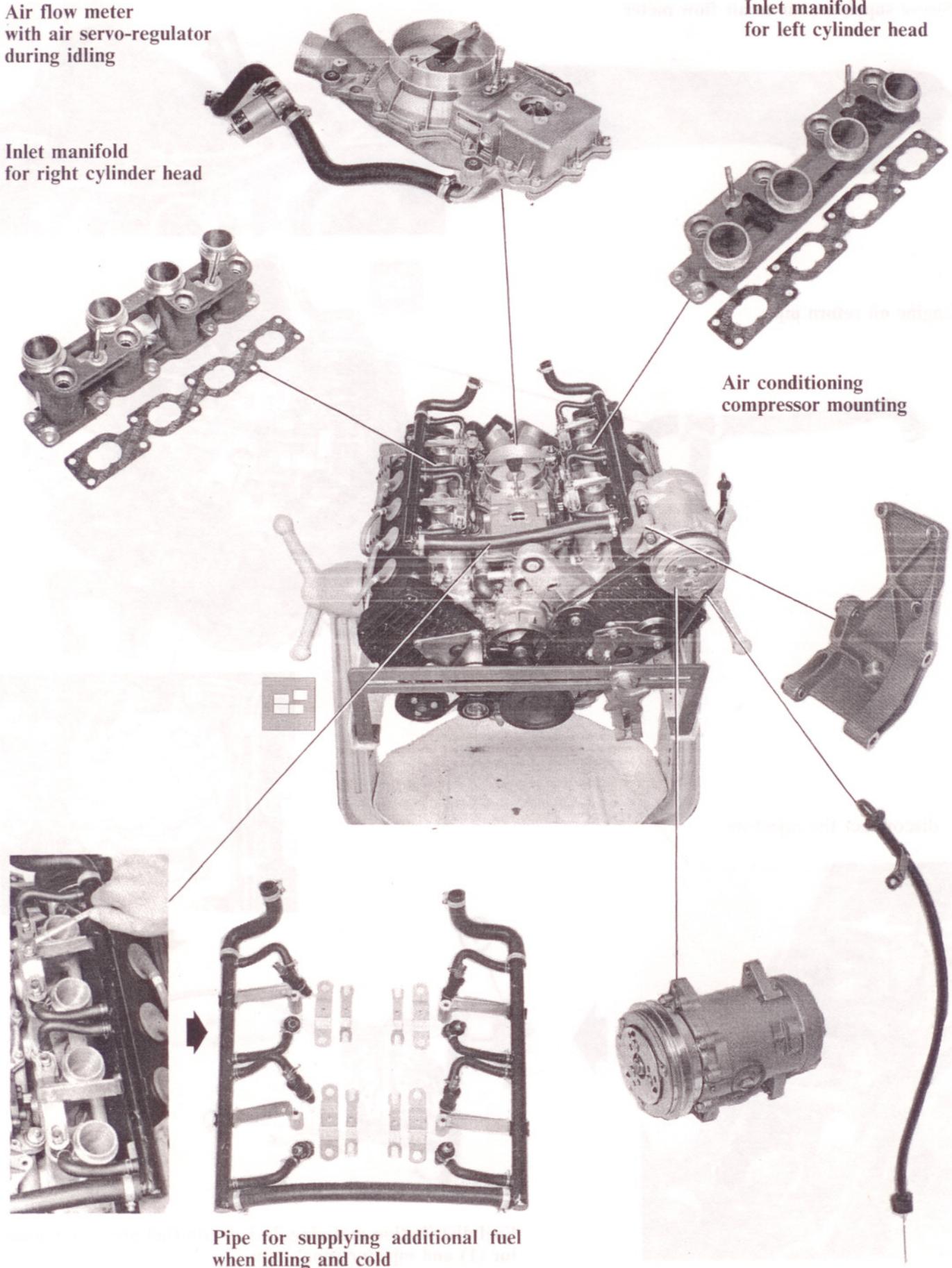
10.

Air flow meter with air servo-regulator during idling

Inlet manifold for left cylinder head

Inlet manifold for right cylinder head

Air conditioning compressor mounting



Pipe for supplying additional fuel when idling and cold

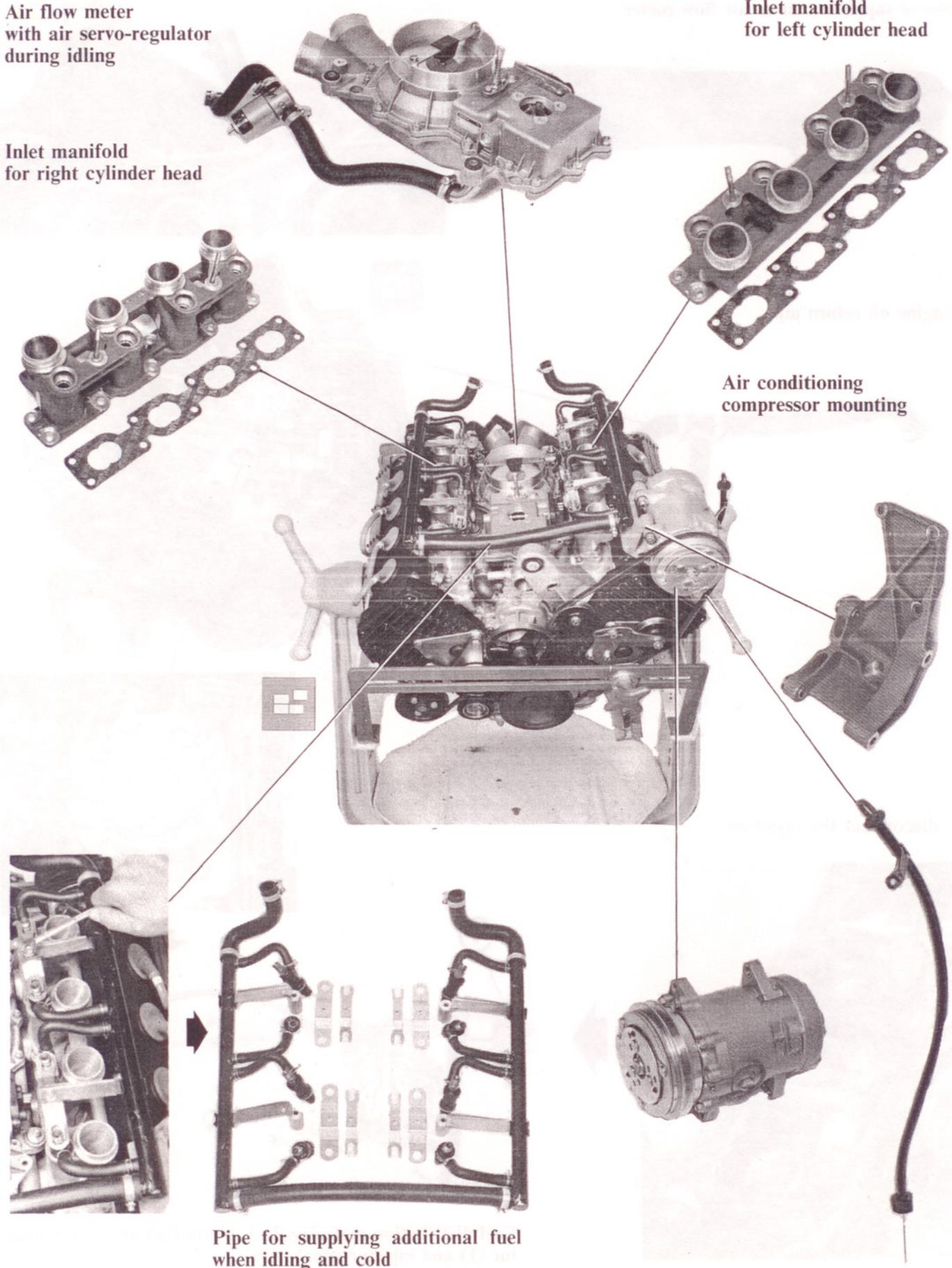
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