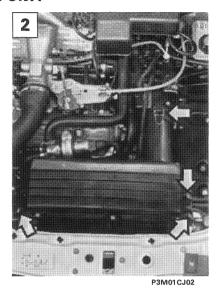
PUNTO eMANUAL

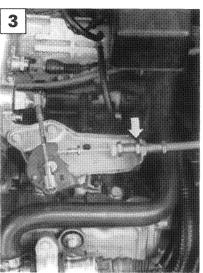
Engines

Title	Page	
Removal/refitting power unit	1 🔷	
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Drawings	17 🎝	
Special tools	19 🌎	

REMOVING-REFITTING POWER UNIT

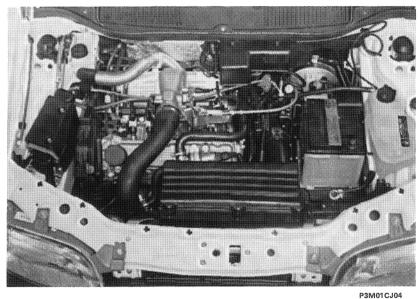






P3M01CJ03

P3M01CJ01



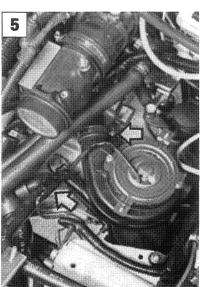
P31VIU1 CJ04

Remove the bonnet lid, position vehicle on lift, drain coolant from engine and fluid from power steering system, then proceed as follows.

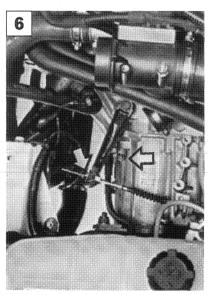
- 1. Disconnect leads, unscrew retaining screw and remove battery.
- 2. Undo the clips, unscrew the screws and remove the air cleaner.
- 3. Loosen the bolts and remove the accelerator cable.
- 4. Unscrew the bolts and remove the battery mount.
- 5. Disconnect the connector, loosen the clip and remove the injector fan.
- 6. Disconnect the clutch cable and the earth lead.



P3M01CJ05



P3M01CJ06

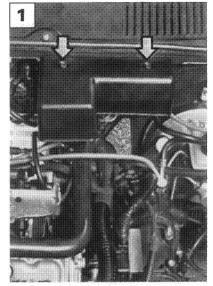


P3M01CJ07

EngineRemoving-refitting

Punto 1372 turbo

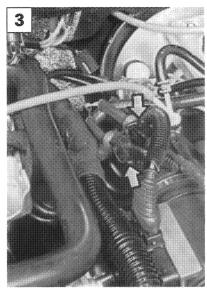
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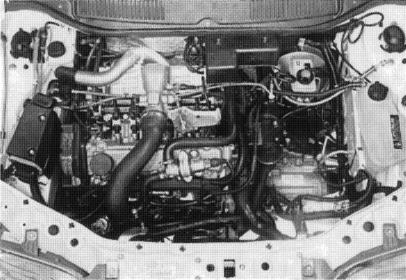




3M02CJ02



P3M02CJ0

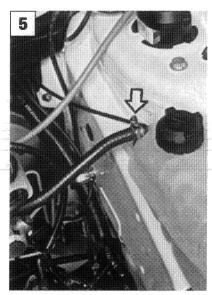


P3M02CJ04

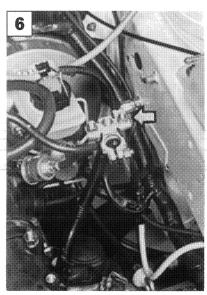
- 1. Unscrew bolts and remove the protection.
- 2. Disconnect connector and unscrew screw, then prise out the turbo control valve.
- 3. Disconnect the lambda probe lead connectors.
- 4. Disconnect the vacuum intake lines shown in the figure (servo brake and injection/ignition control unit).5. Loosen the clip and disconnect the
- Loosen the clip and disconnect the coolant return line to the expansion tank.
- 6. Separate the positive lead shown in figure from the battery terminal.



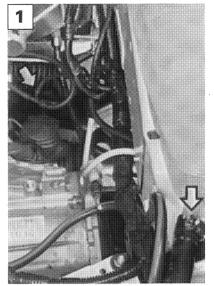
P3M02CJ05



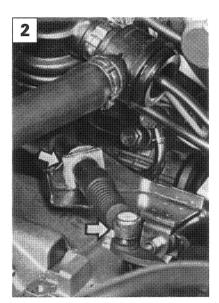
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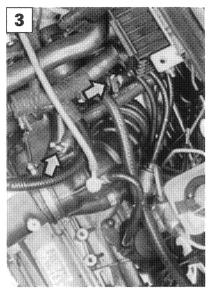
P3M02CJ07



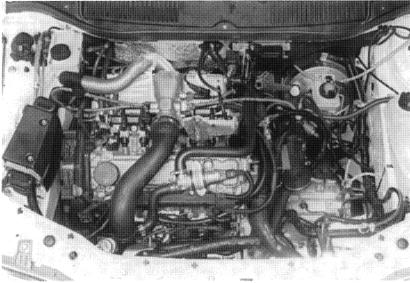




P3M03CJ02

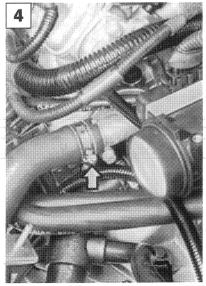


DS##03C IO

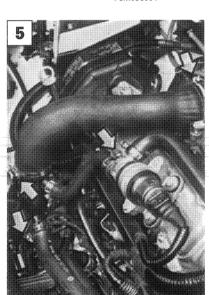


P3M03CJ04

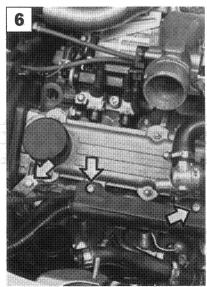
- Disconnect the coolant delivery pipe from the expansion tank by loosening the clip. Disconnect the vacuum intake line from the fitting shown.
- 2. Disconnect the gear engagement lever, remove the retaining plate and withdraw the lead.
- 3. Loosen the clips and disconnect the coolant delivery and return lines to the passenger compartment heater.
- 4. Disconnect the line from the thermostat to the radiator.
- 5. Loosen the clips indicated and remove the air delivery lines.
- Remove the cable protection and the earth lead by unscrewing the bolts indicated.



P3M03CJ05



P3M03CJ06



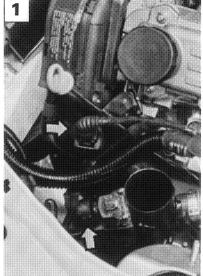
P3M03CJ07

Engine

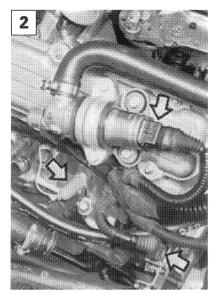
Removing-refitting

Punto 1372 turbo

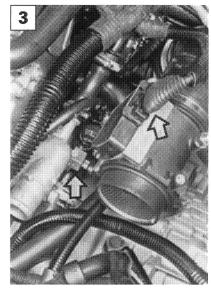
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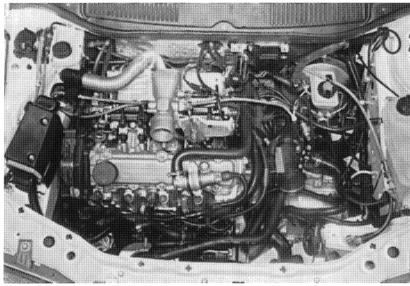




P3M04CJ02



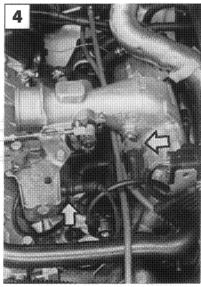
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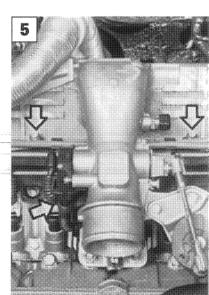
P3M04CJ04

- 1. Disconnect the injection timing and rpm/TDC sensor connectors.
- Disconnect the connectors of the coolant temperature sender unit, idle adjustment actuator and knock sensor.
- Disconnect the coolant temperature sensor connectors from the thermostat and flow meter.
- 4. Disconnect the injector cooling switch connector and intake air temperature sensor.
- perature sensor.

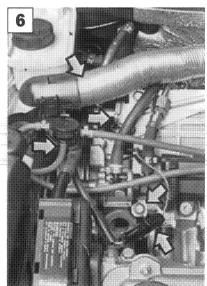
 5. Unscrew the wiring cover retaining screws and disconnect the throttle valve position sensor connector.
- 6. Disconnect the alternator cooling duct, petrol vapour pipe, connector and earth leads indicated.



P3M04CJ05

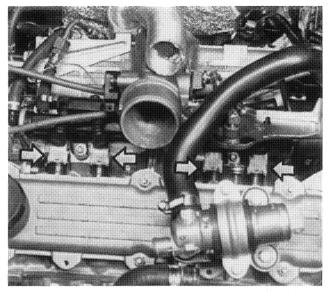


P3M04CJ06



P3M04CJ07



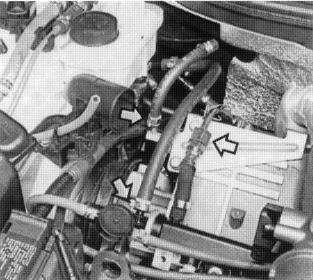






P3M05CJ01

disconnect the connectors from the injectors, then remove the wiring cover;

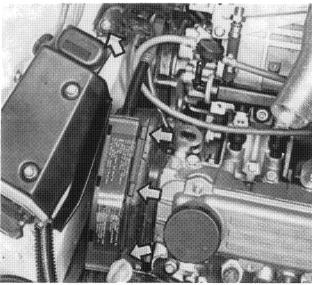


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P3M05CJ02

 disconnect the fuel and fuel vapour delivery/return lines after loosening the connection and clips shown;

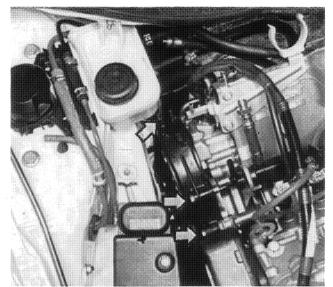


P3M05CJ03



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- release the attachments and remove the alternator lead protection;unscrew the bolt and remove the alternator
- unscrew the bolt and remove the alternator cooling duct mount;







the power steering pump pulley guard;

- unscrew the bolts indicated and remove

NOTE The guard must be removed to gain access to the fluid delivery and return lines to the power steering pump.



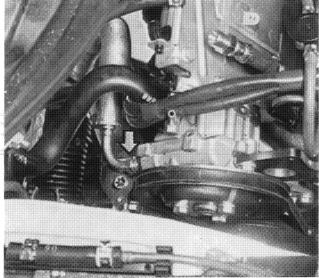


P3M06CJ02



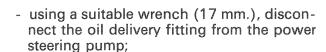


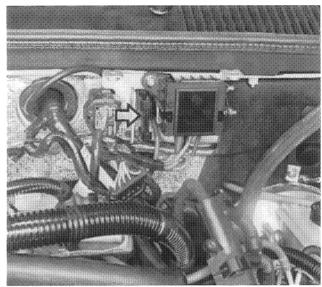
- loosen the clip and remove the pipe from the power steering reservoir;
- unscrew the bolts fastening the fluid reservoir to the body, then prise out to gain access to the connection shown in the following figure;



P3M06CJ03



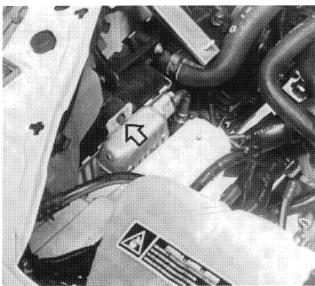






P3M07C.I0

disconnect the speedometer sensor connector;



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P3M07CJ02

separate the coolant radiator from the radiator-fan unit by unscrewing the retaining screw shown;





P3M07CJ03

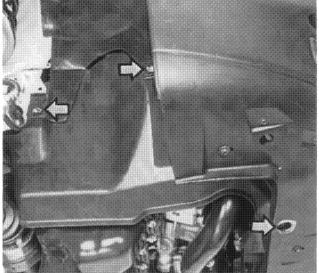
 unscrew the bolts indicated and prise out the bracket;

Engine

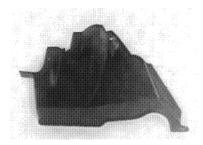
Removing-refitting

Punto 1372 turbo

10.



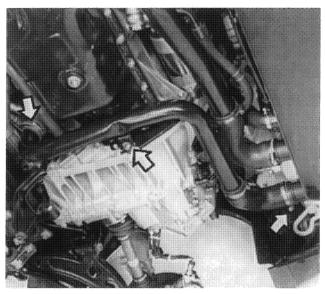




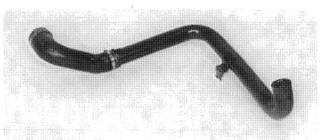
P3M08CJ0

P3M08CJ01

 unscrew the bolts indicated and remove the crankshaft pulley protection;



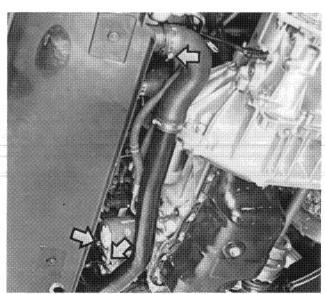




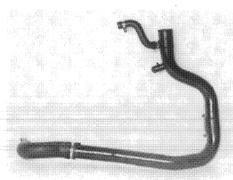
P3M08CJ04

 remove the air inlet duct to the turbo after loosening the clips and unscrewing the bolt shown in the figure;



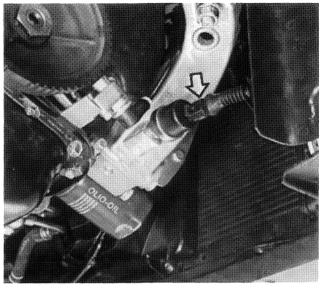






P3M08CJ06

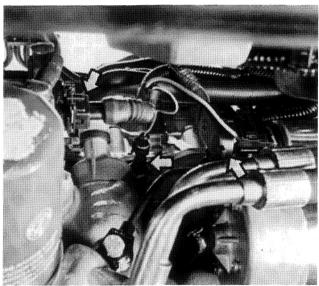
remove the air intake duct to the inlet manifold after loosening the clip and unscrewing the bolts shown;





P3M09CJ01

- disconnect the engine oil pressure sensor connector;

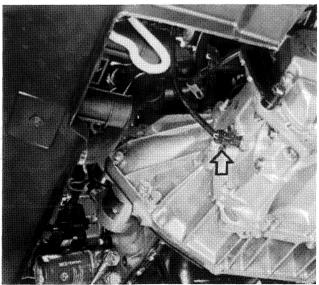


P3M09CJ02



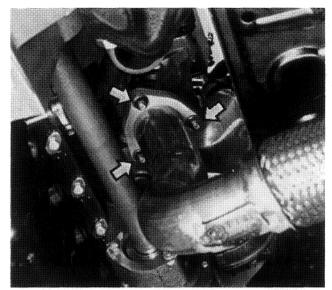


- raise the protection, unscrew the nut and disconnect the starter motor leads;disconnect the connector from the low en-
- gine oil pressure sensor;
- disconnect the connection shown from the ignition coil;



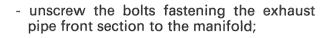
- disconnect the reversing light sensor connector from the gearbox;

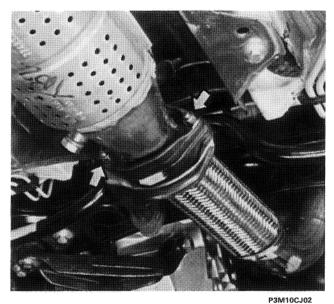






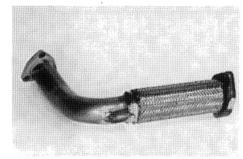
P3M10CJ01





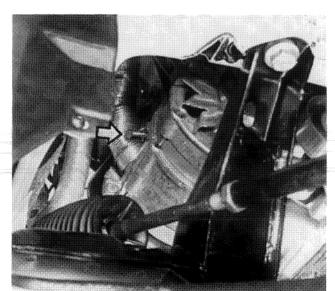






P3M10CJ03

unscrew bolts indicated in figure, then disconnect and remove the exhaust pipe and seal;

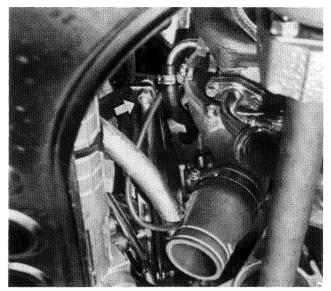


P3M10CJ04





loosen the clip and remove the alternator cooling duct;

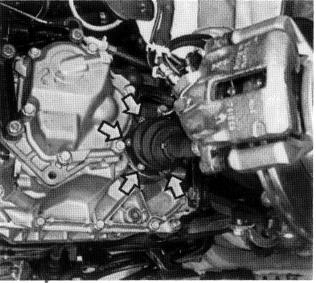






P3M11CJ01

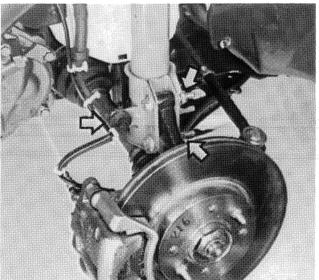
- unscrew the nut and remove the gear selection idler lever;



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P3M11CJ02

 unscrew the constant velocity joint half-axle flange retaining bolts;





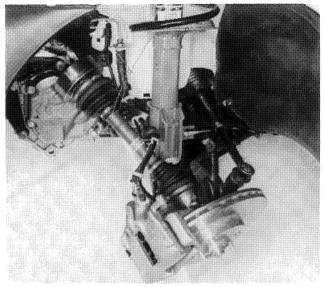
 separaté the wheel hub assembly from the damper by unscrewing the bolts and releasing the brake pipes shown in the figure;

Engine

Removing-refitting

Punto 1372 turbo

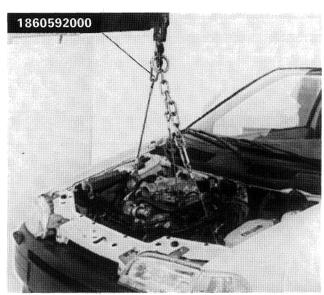
10.





P3M12CJ01

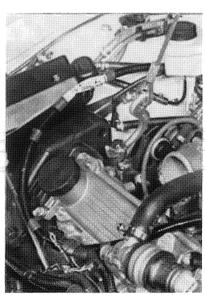
- prise out the half-axles and fasten to the damper;



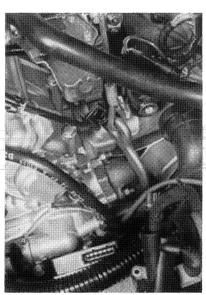
- lower the vehicle to the ground;position universal hook 1860592000, applied to a boom, in the power unit support brackets:
- adjust boom to take up slack in power unit support cables;

NOTE The figure below shows the location of the hooks in the power unit support brackets.

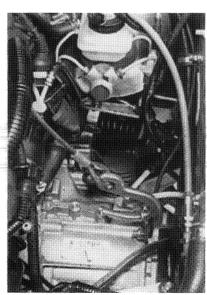




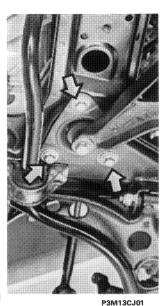
P3M12CJ03

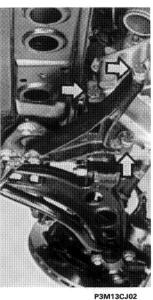


P3M12CJ04



P3M12CJ05



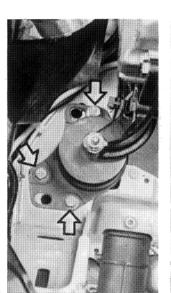




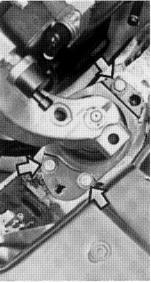


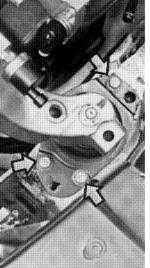
P3M13C.I03 ·

- loosen the central mount bolts from the body (left hand box);
- support the power unit temporarily with a hydraulic jack;
- remove the central gearbox mount after unscrewing the bolts (right hand box);



P3M13CJ04





P3M13CJ05

- unscrew the power unit left front mount retaining bolts (left-hand box);
- unscrew the bolts retaining the power unit right front mount (right hand box);



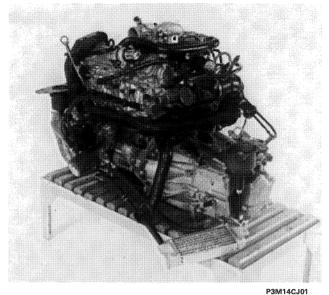


- remove the power unit from the engine bay by manoeuvring the boom and place on the platform below;



The assistance of a second operator is required.







SEPARATING ENGINE - GEARBOX FROM POWER UNIT

Operation sequence

- Rest power unit on a platform, taking care to place in a stable position;



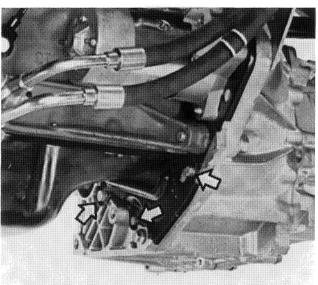
Drain oil from gearbox.





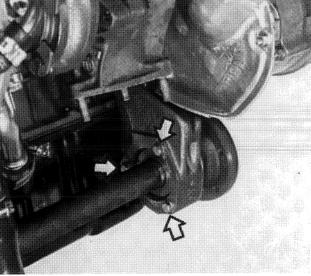


P3M14CJ03



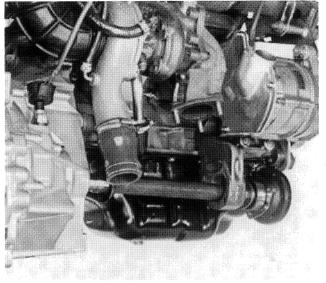
P3M14CJ02

unscrew bolts indicated in figure, then remove the engine flywheel protection;



P3M14CJ04

 unscrew the mount retaining screws and withdraw the intermediate shaft;



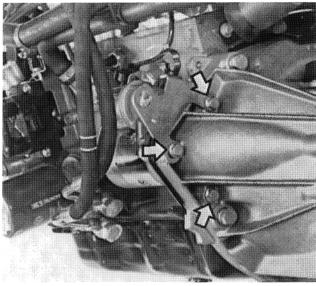




P3M15CJ02

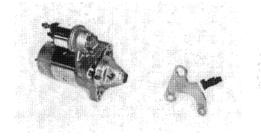
P3M15CJ01

 remove the intermediate shaft after withdrawing the dust boot;



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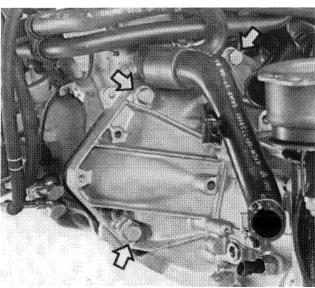




P3M15CJ04



unscrew bolts indicated in figure and disconnect the starter motor and bracket;



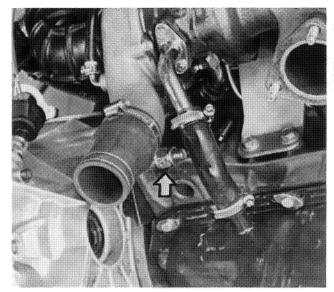


 unscrew the bolts indicated fastening gearbox to engine;

P3M15CJ05

Punto (1372) turbo

10.







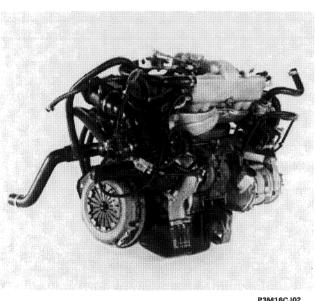


- unscrew the nut joining the gearbox and engine;
- separate the gearbox from the engine.

NOTE To refit the power unit reverse removal instructions.



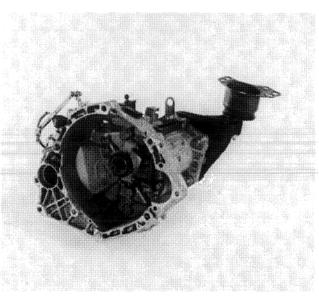
To refill the cooling system, follow the instructions at the end of chapter 10 - Engine Section.



P3M16CJ02

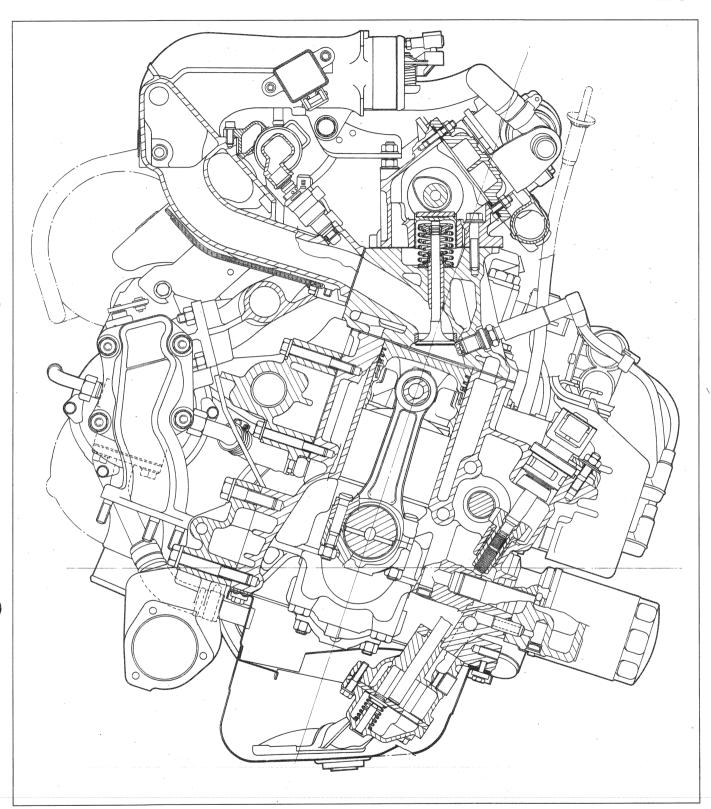


Engine 1372 turbo



P3M16CJ03

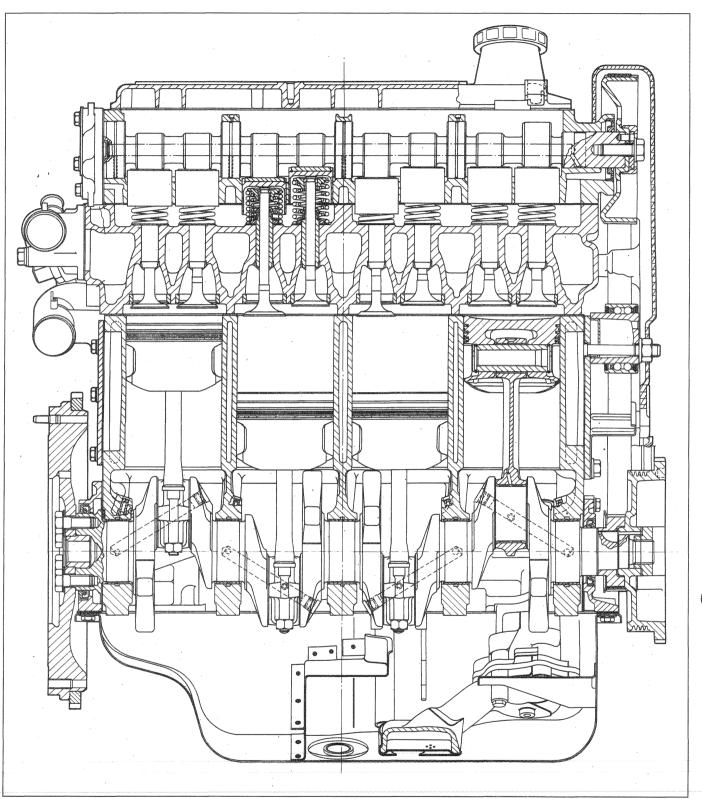
Gearbox C513.5.21



P3M17CJ01

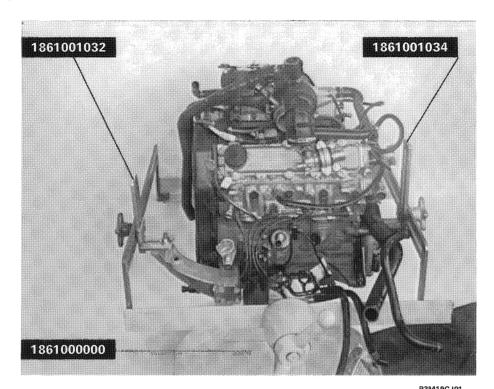
CROSS SECTION THROUGH ENGINE





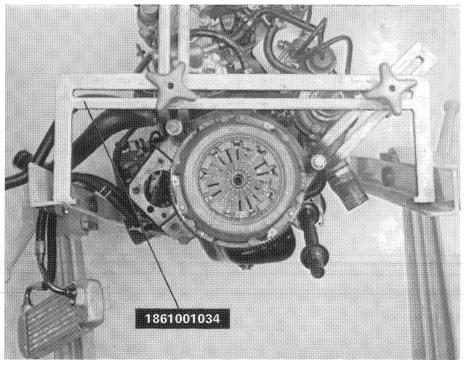
P3M18CJ01

LONGITUDINAL SECTION THROUGH ENGINE



Positioning 1372 turbo engine on rotary stand 1861000000

1861001034 Flywheel side engine retaining bracket **1861001032** Timing side engine retaining bracket



Detail of flywheel side bracket 1861001034

P3M19CJ02