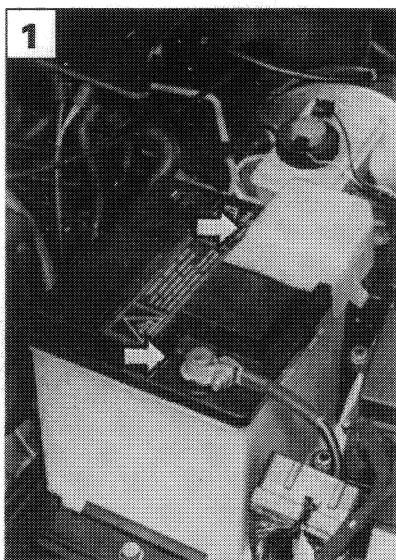


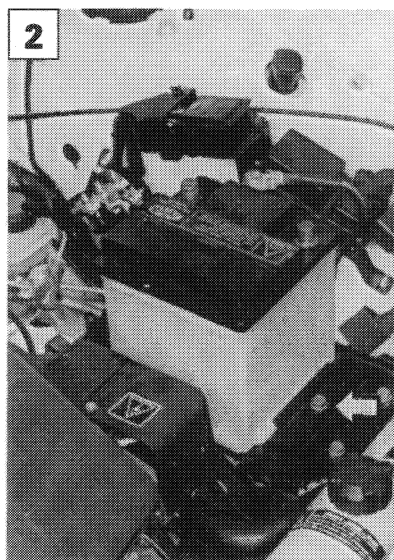
PUNTO eMANUAL

Gearbox & differential

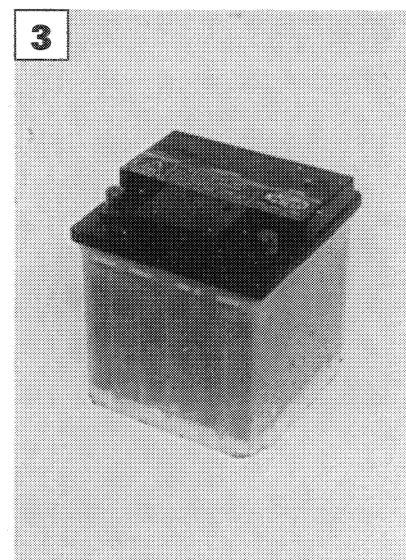
Title	Page
Removing/refitting automatic transmission & differential	1 ➡
Testing	12 ➡



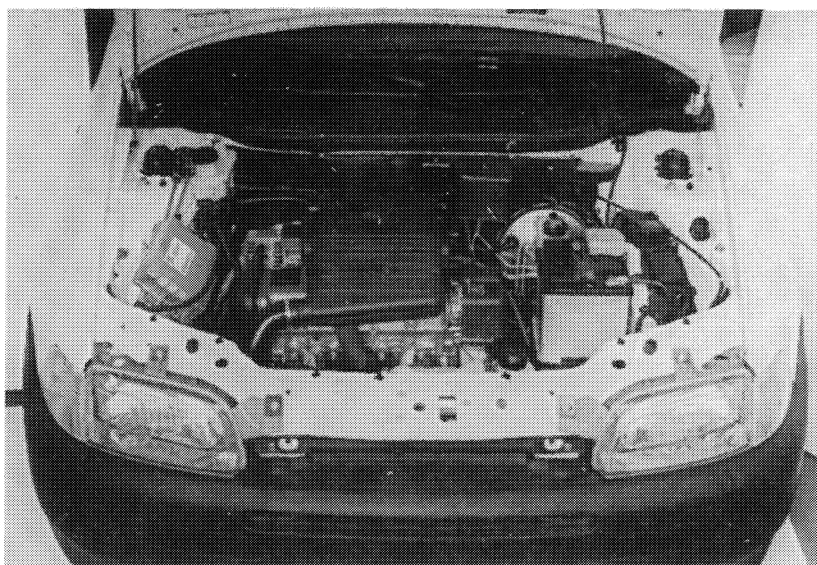
P3M35AB01



P3M35AB02



P3M35AB03

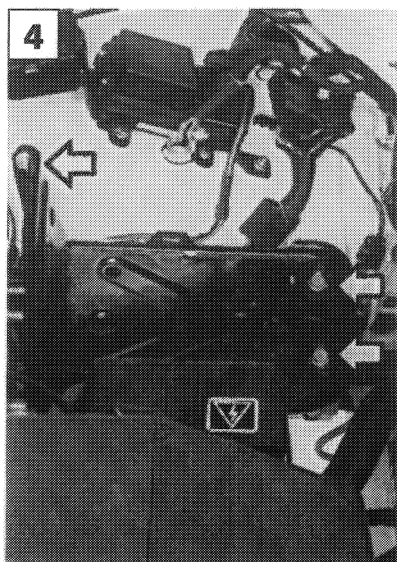


P3M35AB04

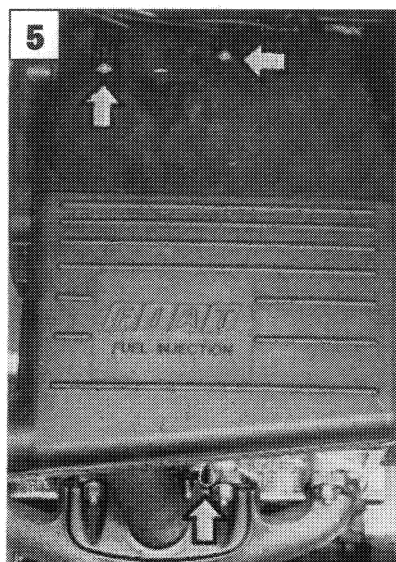
REMOVING-REFITTING AUTOMATIC TRANSMISSION AND DIFFERENTIAL UNIT

Position vehicle on a lift, raise bonnet lid and then proceed as follows:

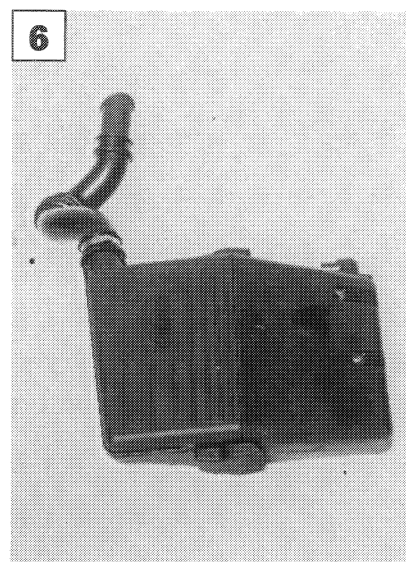
1. Disconnect battery leads.
2. Unscrew nut securing battery retaining plate.
3. Remove the battery.
4. Unscrew screws retaining battery holder and then remove.
5. Unscrew screws indicated in figure, raise clip and release inlet pipe from retaining clips.
6. Remove air cleaner.



P3M35AB05

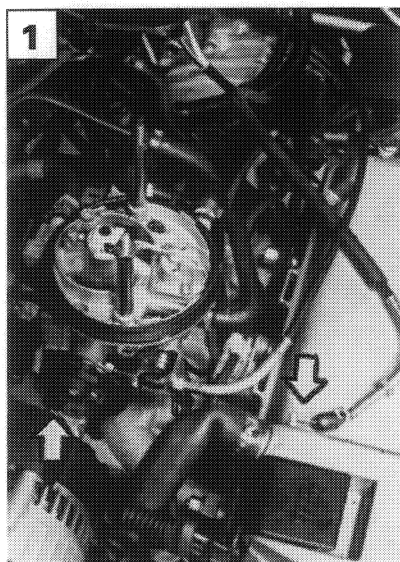


P3M35AB06

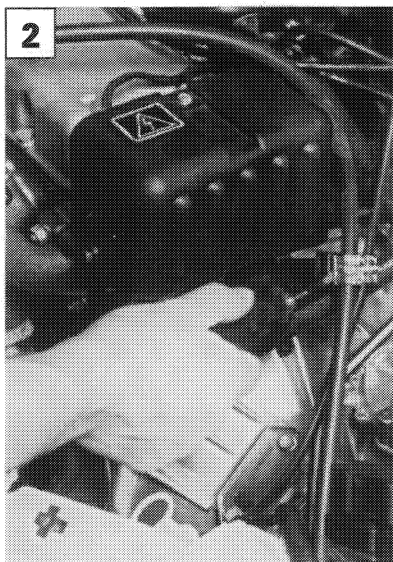


P3M35AB07

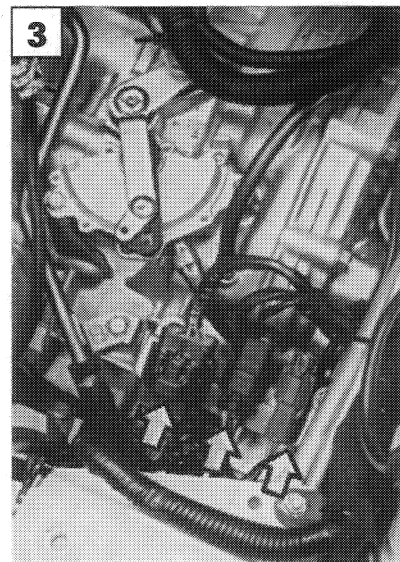
21-27.



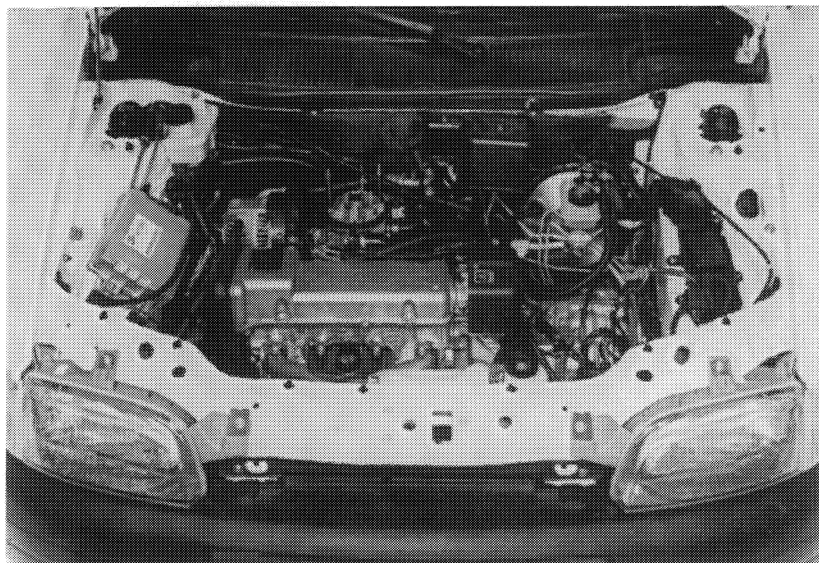
P3M36AB01



P3M36AB02

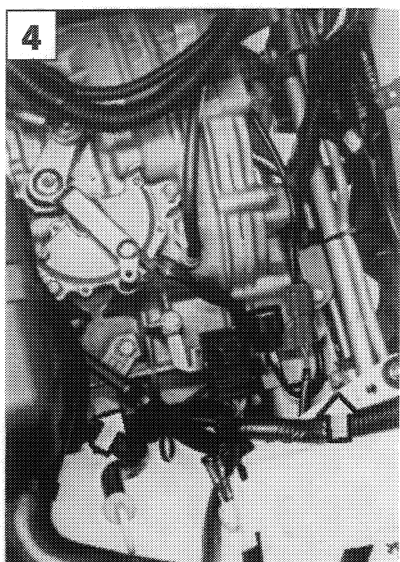


P3M36AB03

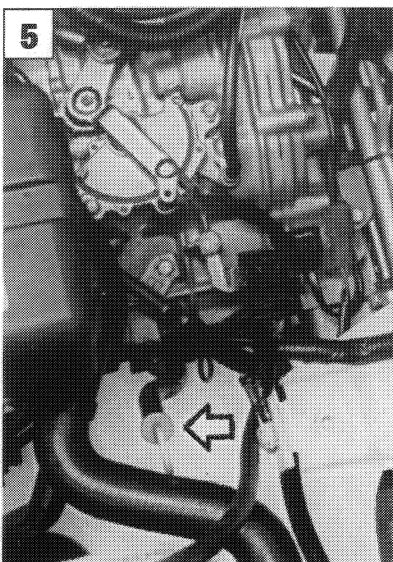


P3M36AB04

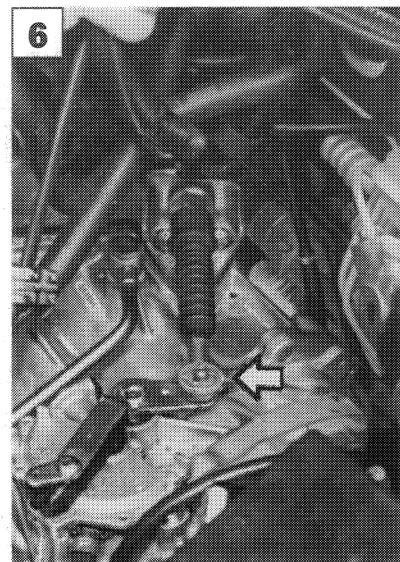
1. Disconnect Kick-Down cable from accelerator control
2. Release Kick-Down cable from retaining clip.
3. Disconnect supply connectors indicated in the figure.
4. Disconnect oil inlet and outlet lines from heat exchanger;
5. Extract oil dipstick to protect from damage during subsequent disassembly operations and seal hole to keep out foreign bodies.
6. Remove speed selector cable by undoing cotter pin shown.



P3M36AB05



P3M36AB06

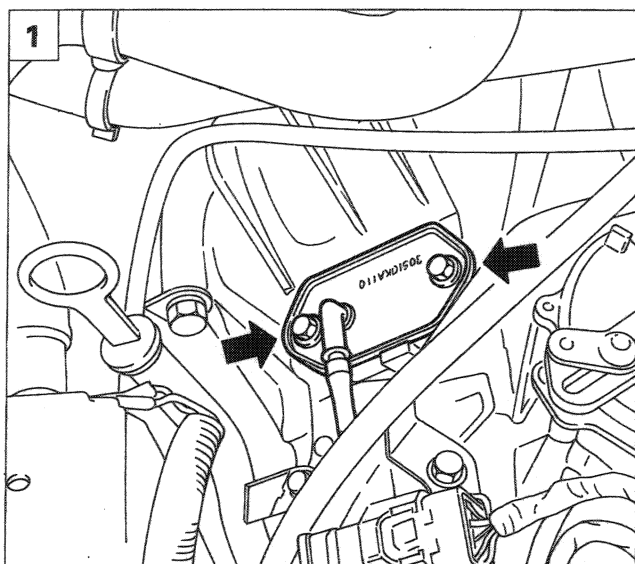


P3M36AB07

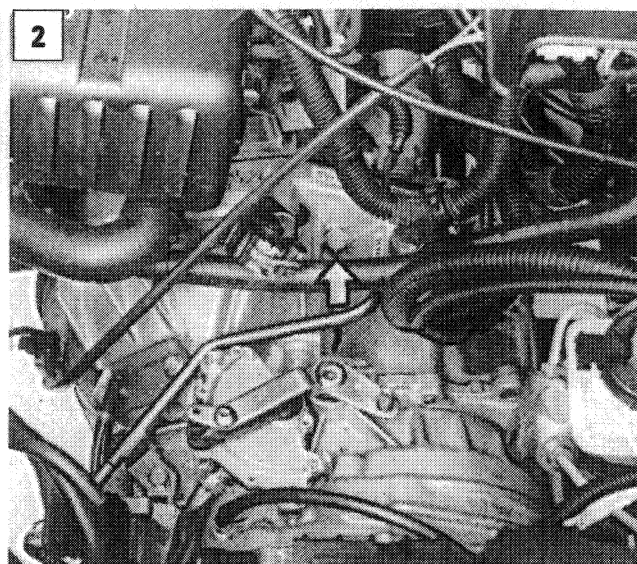
Punto Selecta Automatic transmission and differential

Removing-refitting

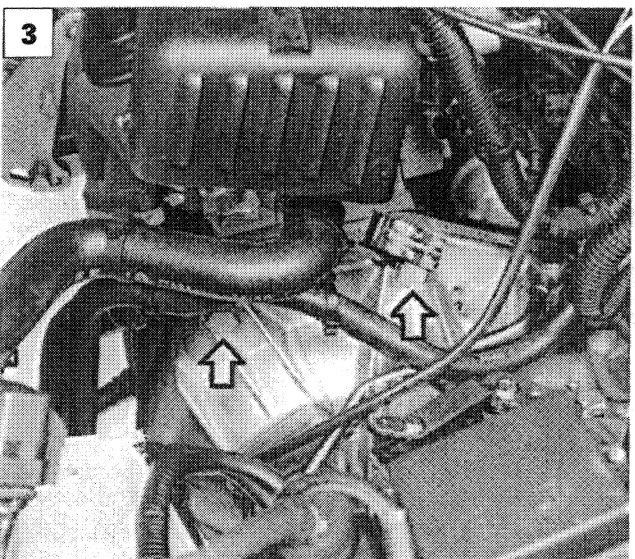
21-27.



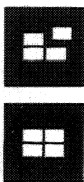
P3M45AB02



P3M37AB01

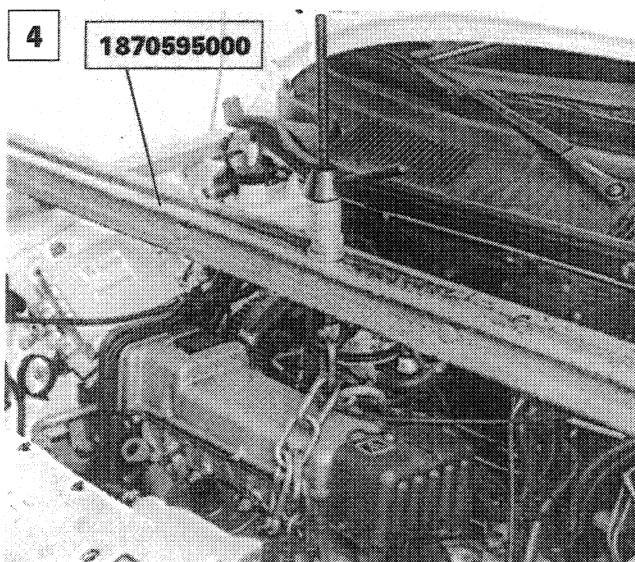


P3M37AB02

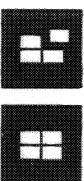


1. Remove the retaining bolts, then remove the electromagnetic clutch supply brushes.
2. Remove the upper bolt retaining the starter motor to the transmission.

3. Unscrew the upper bolts retaining the transmission to the engine.



P3M37AB03

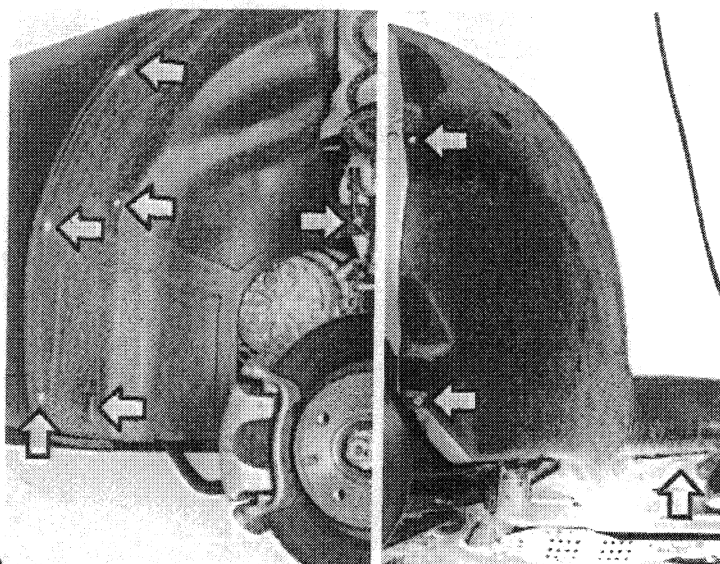


4. Position power unit support beam 1870595000 as shown in the figure.

Automatic transmission and differential *Punto Selecta*

Removing-refitting

21-27.

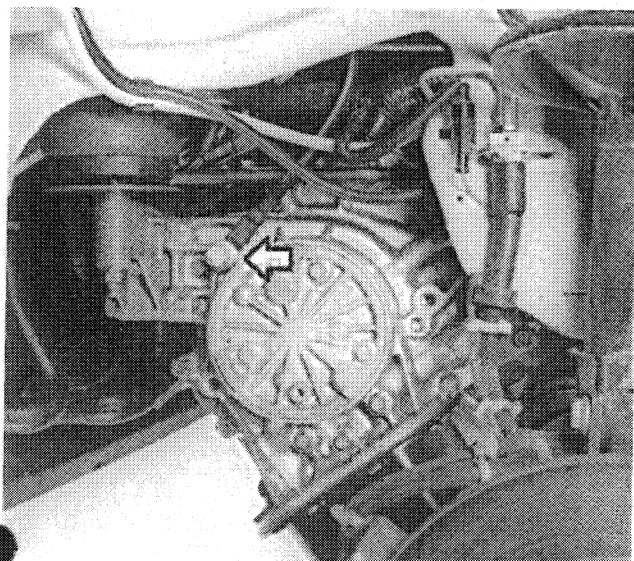


P3M38AB01

P3M38AB02



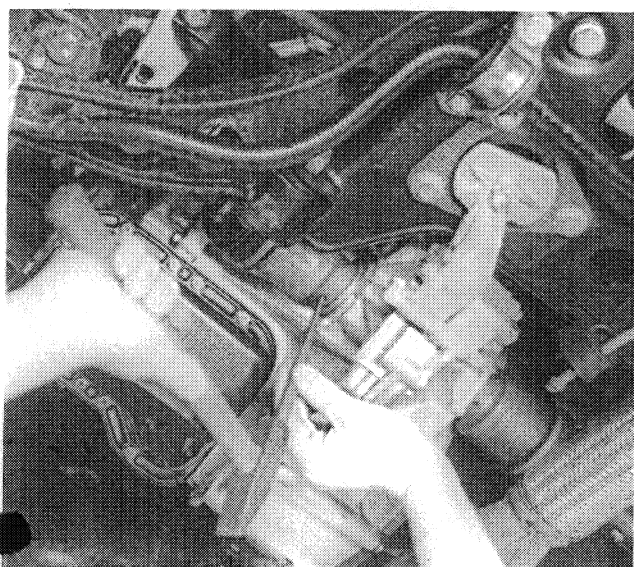
- raise the vehicle;
- working from below, unscrew the bolts fastening the wheel arch guard (left hand box);
- unscrew the remaining rear screws retaining the wheelarch guard (right hand box);
- remove the wheel arch protection;



P3M38AB03



- remove the nut shown and withdraw the earth lead;



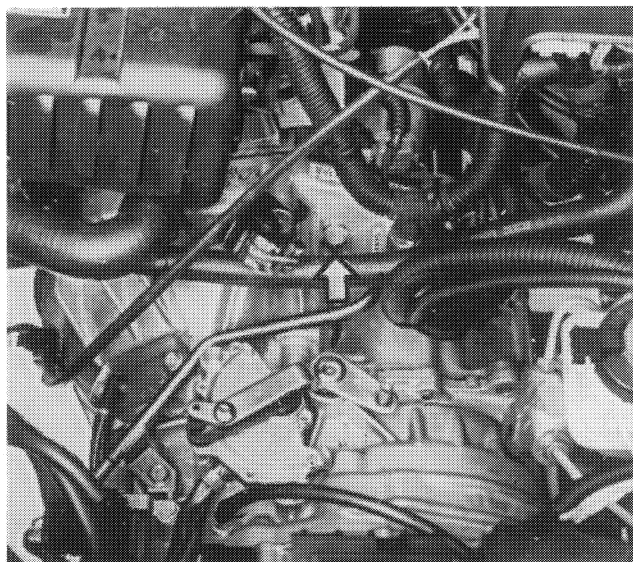
P3M38AB04



- remove the drive shaft retaining pins as shown in the figure;



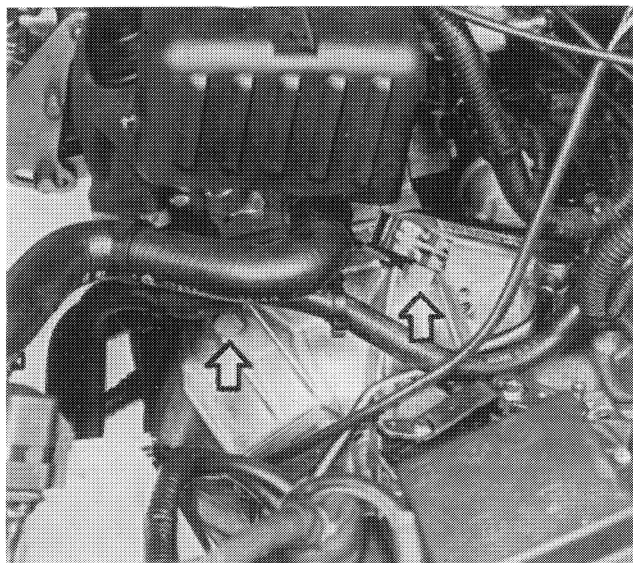
Change the drive shaft retaining pins each time the unit is dismantled.



P3M37AB01



- Remove top screw retaining starter motor to transmission;



P3M37AB02



- unscrew top screws retaining transmission to engine;

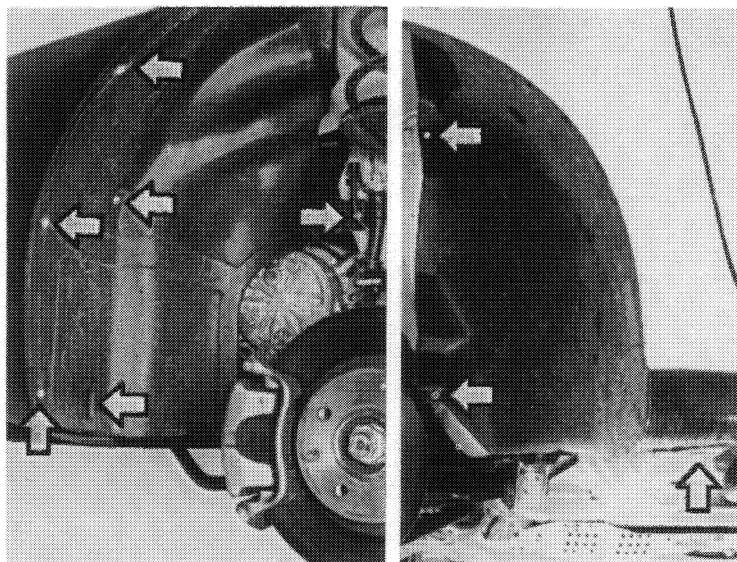


P3M37AB03



- position power unit support beam 1870595000 as shown in figure;

21-27.

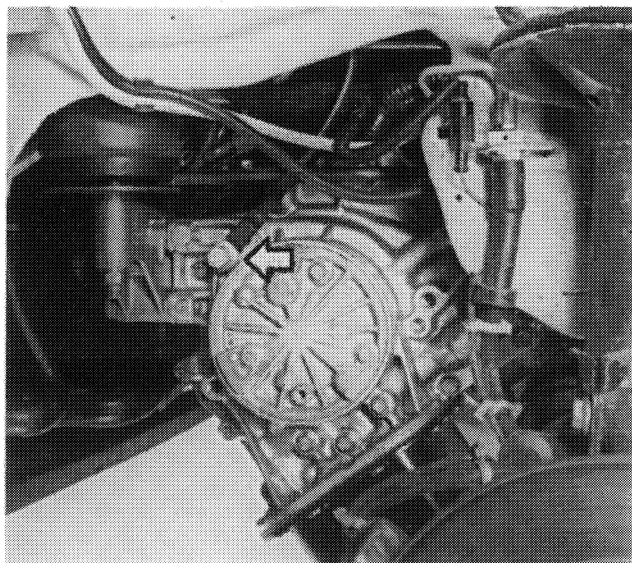


P3M38AB01

P3M38AB02



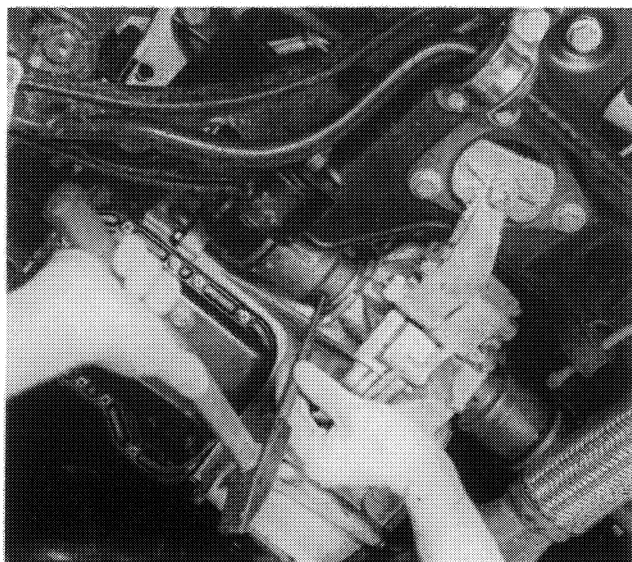
- lift vehicle;
- working from beneath, unscrew screws retaining wheel arch protection (left hand box);
- unscrew remaining rear retaining screws of wheel arch protection (right hand box);
- remove the wheel arch protection;



P3M38AB03



- remove nut indicated and withdraw earth lead;



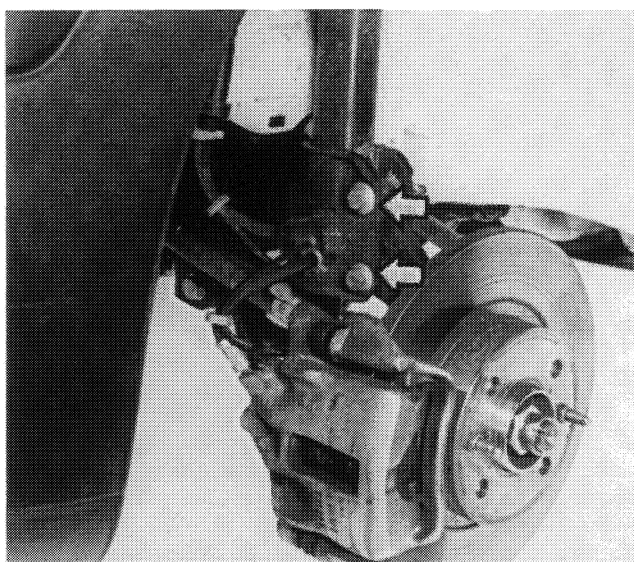
P3M38AB04



- remove drive shaft retaining pins as shown in the figure;



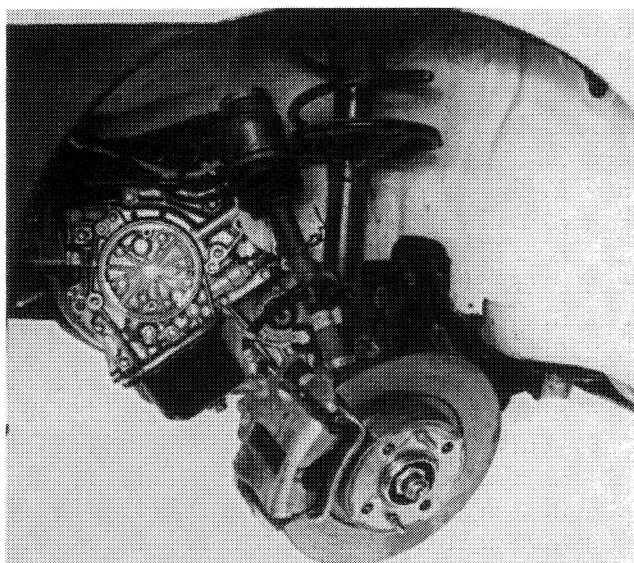
Fit new drive shaft retaining pins each time they are removed.



P3M39AB01



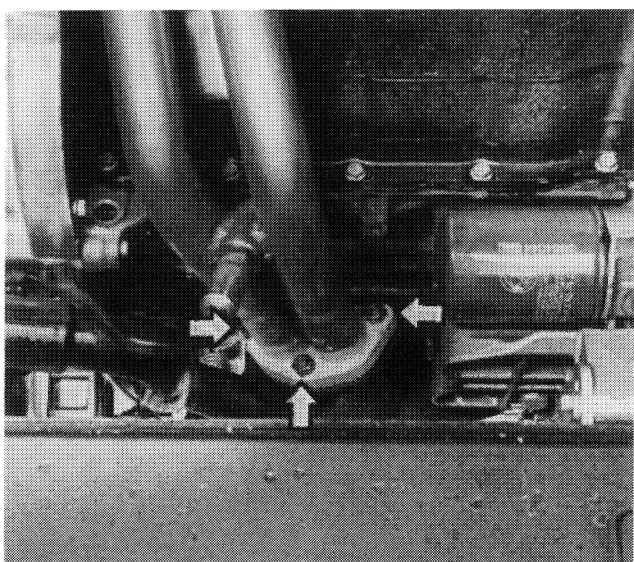
- remove screws indicated in figure, then remove wheel hub and damper;
- withdraw left drive shaft from seat on transmission;



P3M39AB02



- fasten left drive shaft to vehicle;



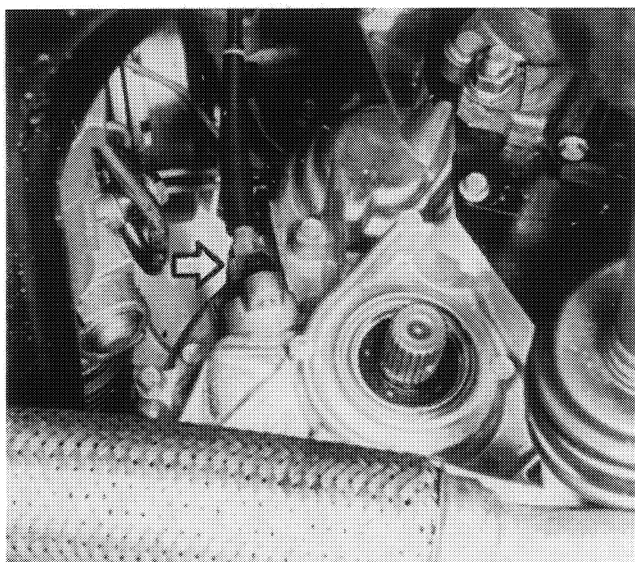
P3M39AB03



- unscrew nuts retaining exhaust pipe to manifold and lower;

NOTE Fasten exhaust pipe to prevent lambda probe cable from becoming damaged.

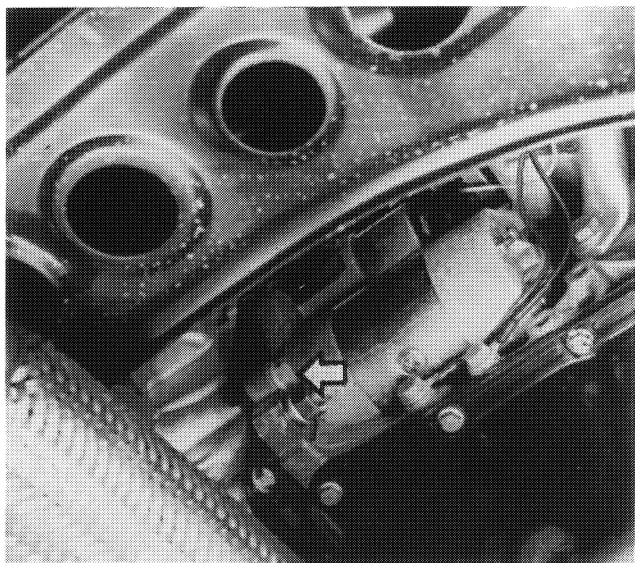
21-27.



P3M40AB01



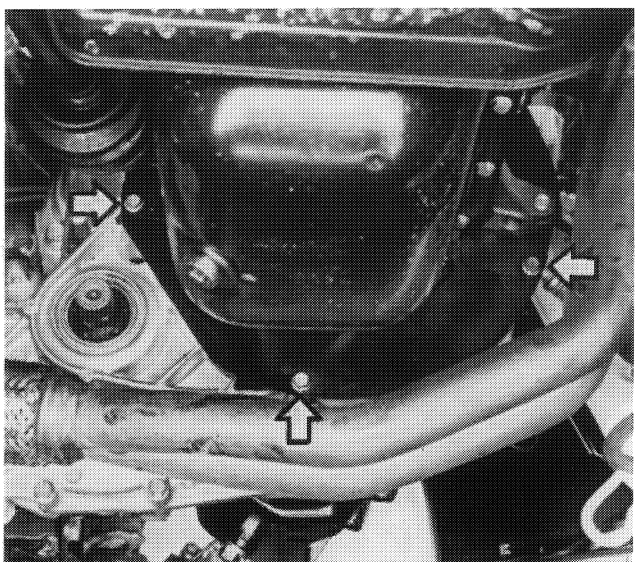
- unscrew toothed ring nut from milemeter/speedometer socket;



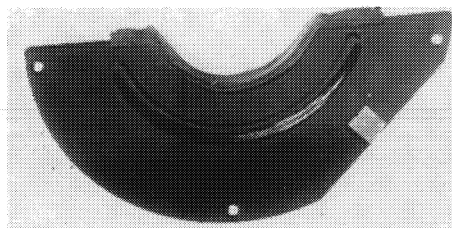
P3M40AB02



- unscrew screw retaining starter motor to transmission;



P3M40AB03



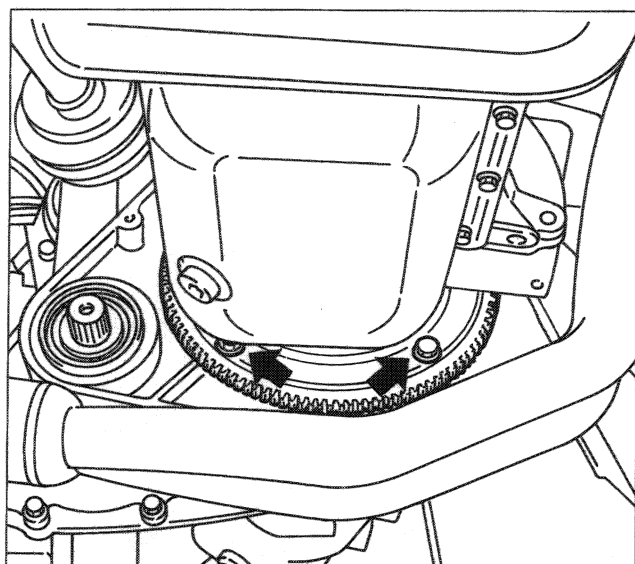
P3M40AB04

- unscrew screws indicated in figure and remove flywheel cover;

Punto Selecta Automatic transmission and differential

Removing-refitting

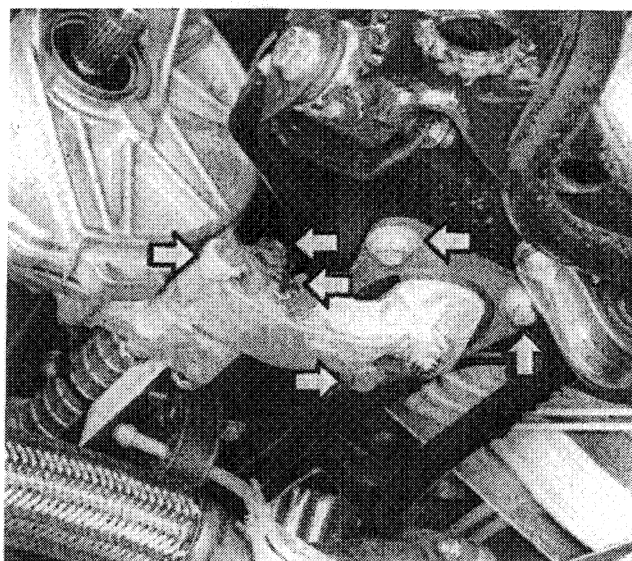
21-27.



P3M41AB06



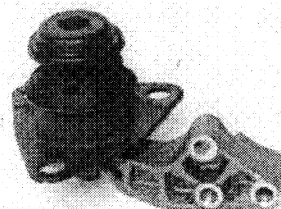
- remove the four bolts retaining the electromagnetic clutch to the flywheel;



P3M41AB01



- remove the central power unit mount from the transmission and crossbeam by undoing the bolts indicated in figure;



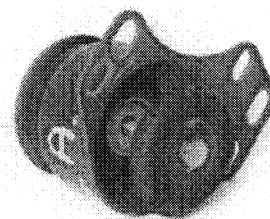
P3M41AB02



P3M41AB03



- remove the nut retaining the transmission to the flexible mount and the bolts retaining the flexible mount to the body;
- remove the flexible mount;

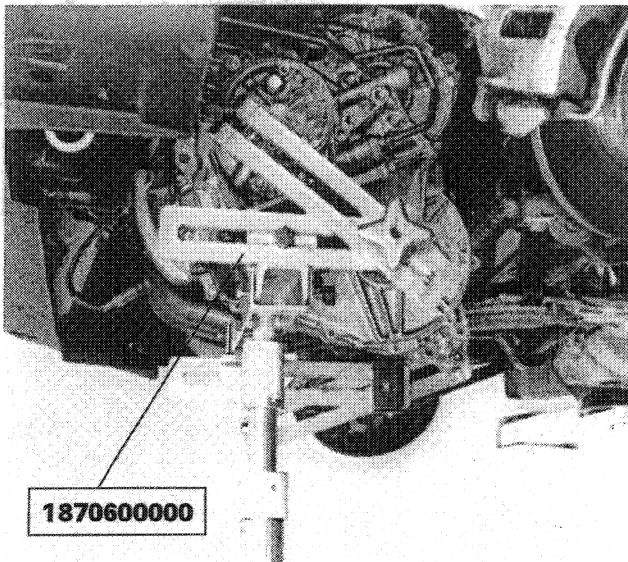


P3M41AB04

Automatic transmission and differential *Punto Selecta*

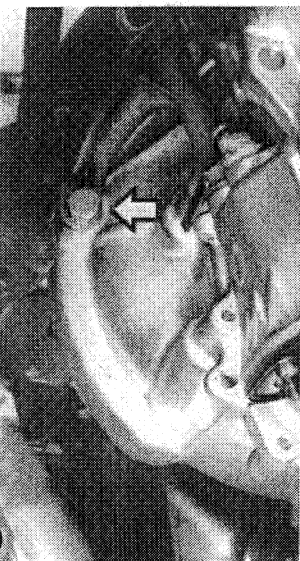
Removing-refitting

21-27.

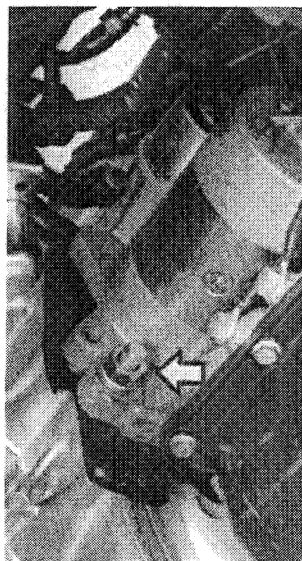


P3M41AB05

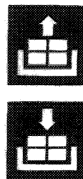
- secure mount 1870600000 to the automatic transmission and position on the hydraulic column jack;



P3M42AB01



P3M42AB02



- remove the bolt joining the transmission to the engine (left hand box);
- unscrew nut retaining transmission to engine (right hand box);
- move the automatic transmission-differential unit around to free it from the locating pins on the engine;



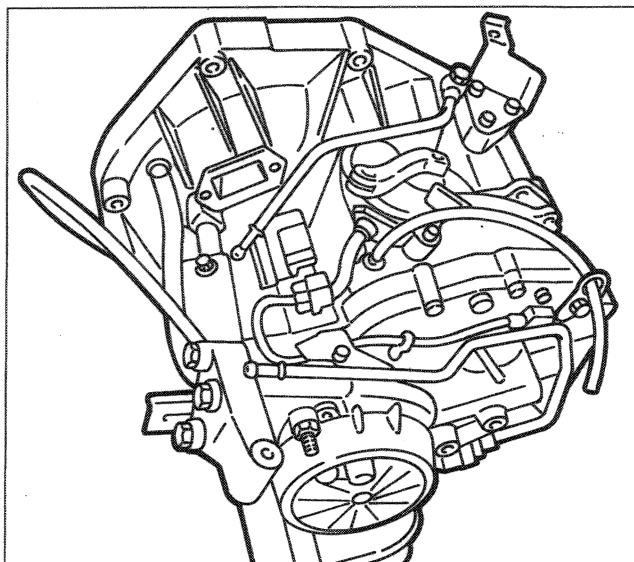
Take particular care when removing the transmission-differential unit from the engine. The main shaft to which the electromagnetic clutch is fitted will not hold the clutch in place if tilted too much during transmission removal.

Move the transmission sideways by a few centimetres and support the clutch to prevent accidental falls and avoid danger to personnel.

Punto Selecta Automatic transmission and differential

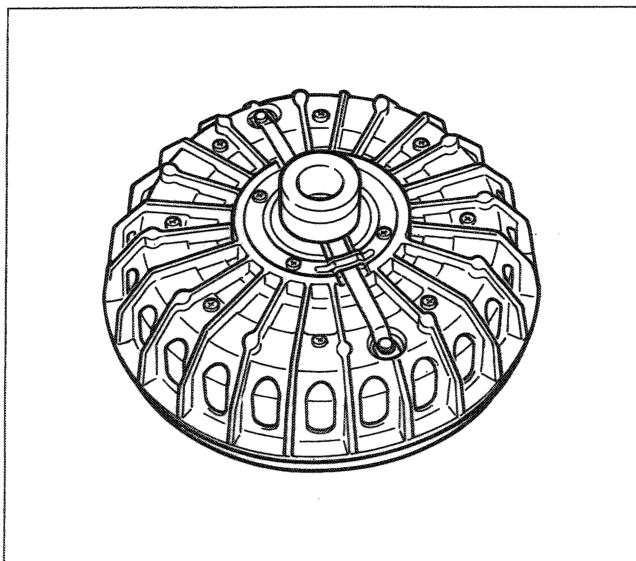
Removing-refitting

21-27.



P3M43AB04

- lower the hydraulic column jack and withdraw the automatic transmission-differential unit from the engine bay,

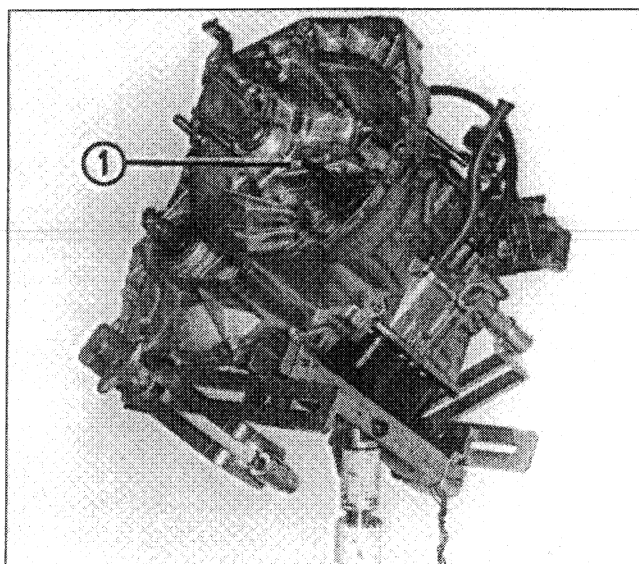


P3M44AB01

- withdraw the electromagnetic clutch from its housing,



During this manoeuvre, take care to ensure that the oil pump drive shaft (1) stays in its housing on the transmission. If the shaft comes out, it must be positioned in place on the transmission to protect from damage.



P3M42AB05

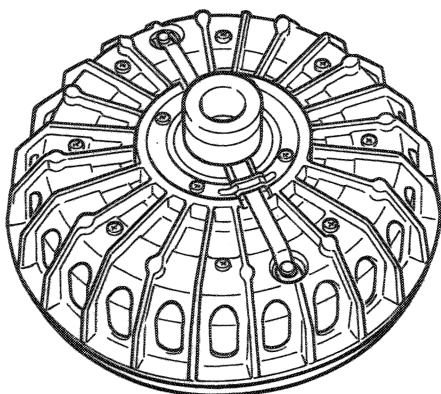
NOTE *To refit the automatic transmission-differential unit, reverse removal instructions.*

Automatic transmission-differential on support 1870600000

Automatic transmission and differential *Punto Selecta*

Removing-refitting

21-27.

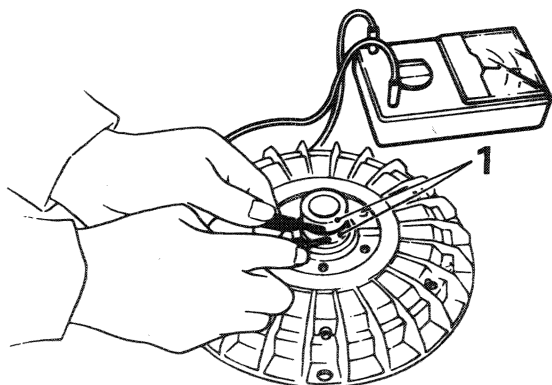


P3M44AB01



ELECTROMAGNETIC CLUTCH TESTS

Electromagnetic clutch assembly



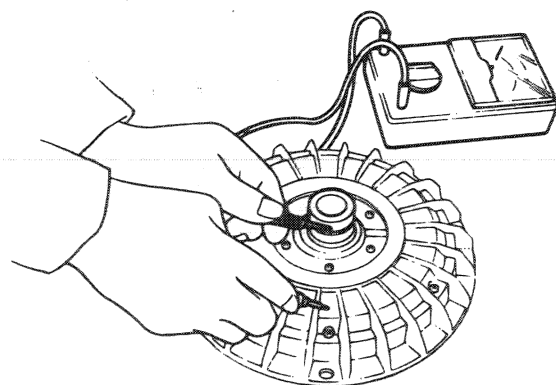
P3M44AB02



Continuity test

The correct resistance reading must be between 2 and 4 Ohms at 20°C.

1. Contact rings



P3M44AB03



Earth insulation test