- Compare voltage indicated with that specified.
- Open throttle slowly.
- Voltage should increase.

2.3 Air flow sensor

Self-diagnosis code: 2323

Technical Data	
Resistance between terminals:	
3 & 4	500-1000 ohms

Preparatory conditions - 7

- ☐ *Disconnect air hose [1].*
- ☐ *Disconnect multi-plug [2] from air flow sensor.*

Checking resistance - 7

- Connect ohmmeter across terminals 3 and 4 of multi-plug socket.
- Compare indicated resistance with that specified.
- Connect ohmmeter across terminals 2 and 3.
- Operate air flow sensor flap by hand.
- Ohmmeter reading should vary smoothly with flap movement.

2.4 Coolant temperature sensor

Self-diagnosis code: 2312

Technical Data	
Temperature - °C	Resistance - ohms
0	5500
20	2500
40	1250
60	575
80	325
100	200

Checking - 8

- Disconnect temperature sensor multi-plug (blue).
- Check coolant temperature .
- Connect ohmmeter across sensor terminals.
- Compare resistance indicated with that specified.

2.5 Air temperature sensor

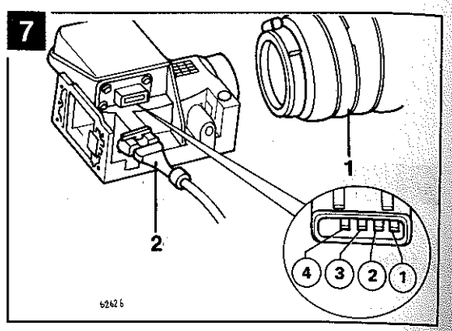
Self-diagnosis code: 2322

Technical Data	
Temperature - °C	Resistance ohms
0	5500
20	2500
40	1250
60	575
80	325
100	200

Checking - 7

- Disconnect air flow sensor multi-plug.
- Connect ohmmeter across terminals 1 and 4.
- Check ambient temperature with thermometer.
- Compare resistance indicated with that specified.

7



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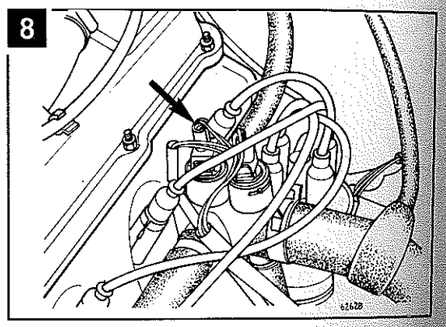

2.6 Auxiliary air valve

Preparatory conditions

- ☐ *Engine coolant temperature less than 30°C.*
- ☐ *Temperature sensor satisfactory.*
- ☐ *Idle speed as specified.*
- ☐ *No air leaks in air intake system.*

Checking operation

- Start engine and allow to idle.
- Pinch hose between air valve and air intake elbow.
- Engine speed should decrease.
- Run engine until it reaches normal operating temperature (at least 80°C).
- Pinch hose between air valve and air intake elbow.
- Engine speed should not change.

Checking supply and continuity - 9

- Disconnect coil HT lead (at distributor), and earth it.
- Disconnect air valve multi-plug.
- Connect voltmeter across terminals 3 and 4 of harness multi-plug.
- Crank engine with starter.
- Battery voltage should be indicated.
- Connect ohmmeter across contacts 3 and 4 of air valve.
- Meter should indicate continuity.
- Reconnect HT lead.

2.7 Injector valves

Technical Data	
Resistance between connector terminals 1 & 2	3,7-5,0 ohms
Resistance between injector valve terminals	15-20 ohms

Checking supply and resistance - 10 & 11

- Disconnect multi-plug connector from injector rail.
- Connect LED tester across multi-plug terminals 1 and 2.
- Crank engine with starter.
- LED tester should flicker.
- Connect ohmmeter across terminals 1 and 2 of multi-plug.
- Compare resistance indicated with that specified.
- Disconnect each injector valve multi-plug in turn.
- Connect digital ohmmeter across injector terminals 11.
- Compare resistance indicated with that specified.

2.8 Lambda sensor

Self-diagnosis code: 2342, 2341

Preparatory conditions

- ☐ *Engine oil temperature 80°C.*
- ☐ *Idle speed as specified.*
- ☐ *Exhaust system free of air leaks.*
- ☐ *Temperature sensor connected.*
- ☐ *Connect CO meter to measuring pipe ensuring airtight connection.*
- ☐ *Check voltage supply to Lambda sensor satisfactory.*

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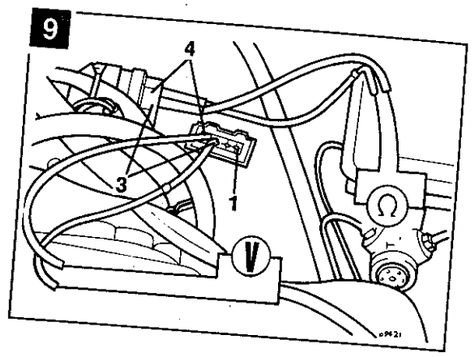

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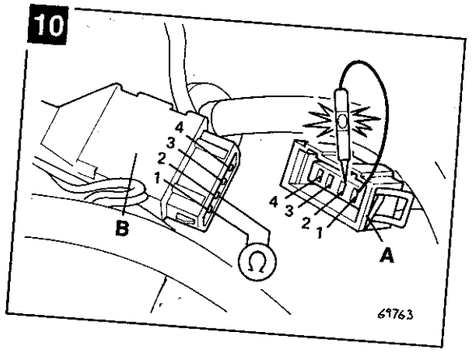

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