

12 - ELECTRICAL

Checking the engine oil level

From 85* model year, all 104, Samba, 205, 305, 504, 505, 604 and J9 models and Horizon D with the exception of some export versions, are fitted with an engine oil level sensor of JAEGER manufacture.

This new equipment entails the fitting of:

- an oil level sensor fitted in the engine sump.
- an electronic control unit mounted under the fascia on the driver's side.
- a warning lamp in the instrument panel.
- modified main harnesses for fascia and headlamps.

A - PRINCIPLE OF OPERATION

A high resistance wire passing a current has a different conductivity when it is immersed in a liquid from that when it is in air. The variation of resistance is measured by an electronic control unit which operates an indicator lamp in the instrument panel.

* Fitting anticipated on certain vehicles.

B - USE

Oil level is checked:

- with the vehicle on a level surface.
- with the engine stopped (it must not have been run recently).




Turn the ignition switch to the AC position: the warning lamp will light.

After two seconds:

- if the lamp goes out, the oil level is correct.
- if the lamp flashes, the oil level is low.

C - LOCATION OF THE WARNING LAMP:

- in the instrument panel (rationalised window except for 604).

 oil level only	 coolant/oil level (1)	 oil level and pressure (2)
205 305 505	104 Samba 504 J9	604

(1) continued steady illumination of lamp: coolant level low.

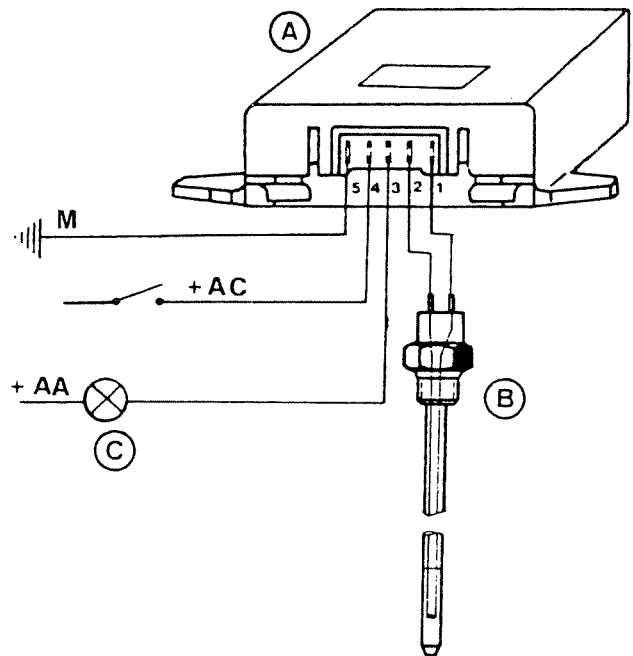
(2) continued steady illumination of lamp: oil pressure low.

D - WIRING DIAGRAM

Connections for 504, 505, 604, J9

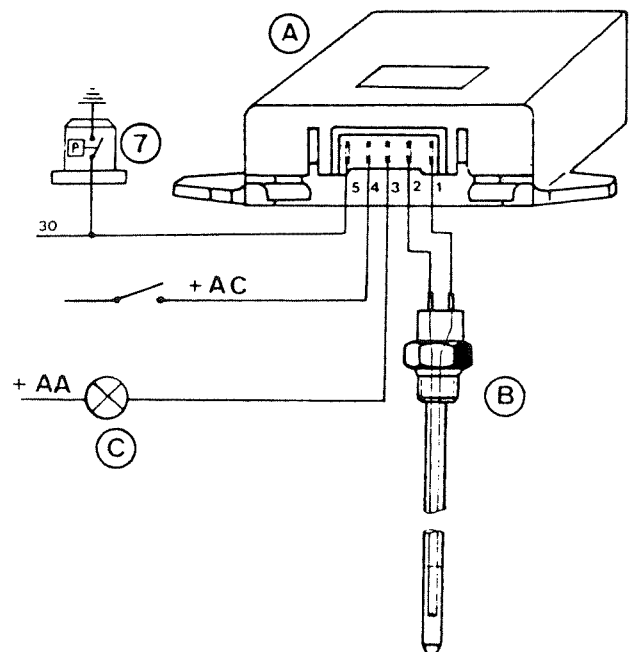
Key

- A Electronic control unit
- B Sensor
- C Warning lamp
- 7 Oil pressure switch
- M Earth
- +AC Ignition controlled +
- +AA Accessory supply



Connections for 104, Samba, 205 and 305.

Earthing the control unit through the oil pressure switch prevents the level indicator from operating when the engine is running.

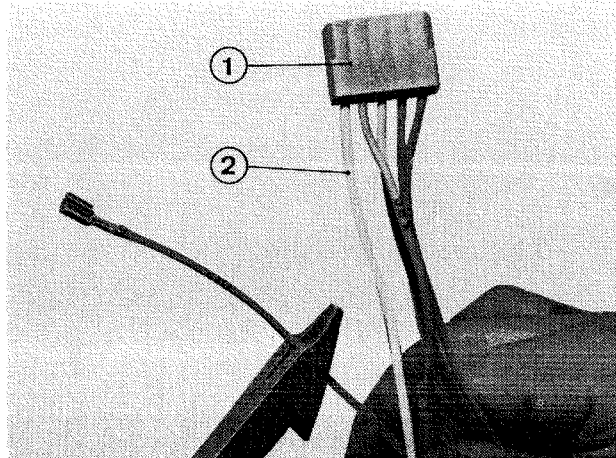


IMPORTANT:

Some 84 model year 205 and 305 models are partly equipped with this device and can display unjustified flashing of the lamp if the engine is re-started before the engine oil has had time to return to the sump. The control unit on these vehicles is not earthed through the oil pressure switch, and they can be modified by the attached method.

Modification to all 205 models except GTI

- Swing out the fuse box under the fascia.
- Unclip the grey connector (1) from the oil level control unit (mounted on the fascia crossmember).
- Release wire M224 from the connector and cut it where it enters the harness.
- Fit in its place a 500 mm length of 0,6 mm² wire using connector Part No. 6540.58



- Remove the instrument panel.
- Remove wire 30 from socket 2 of the white central connector.
- Connect wire 30 to the free end of the 500 mm long wire (2) using a connector Part No. 6540.28
- Re-connect to socket 2.
- Refit the instrument panel.

