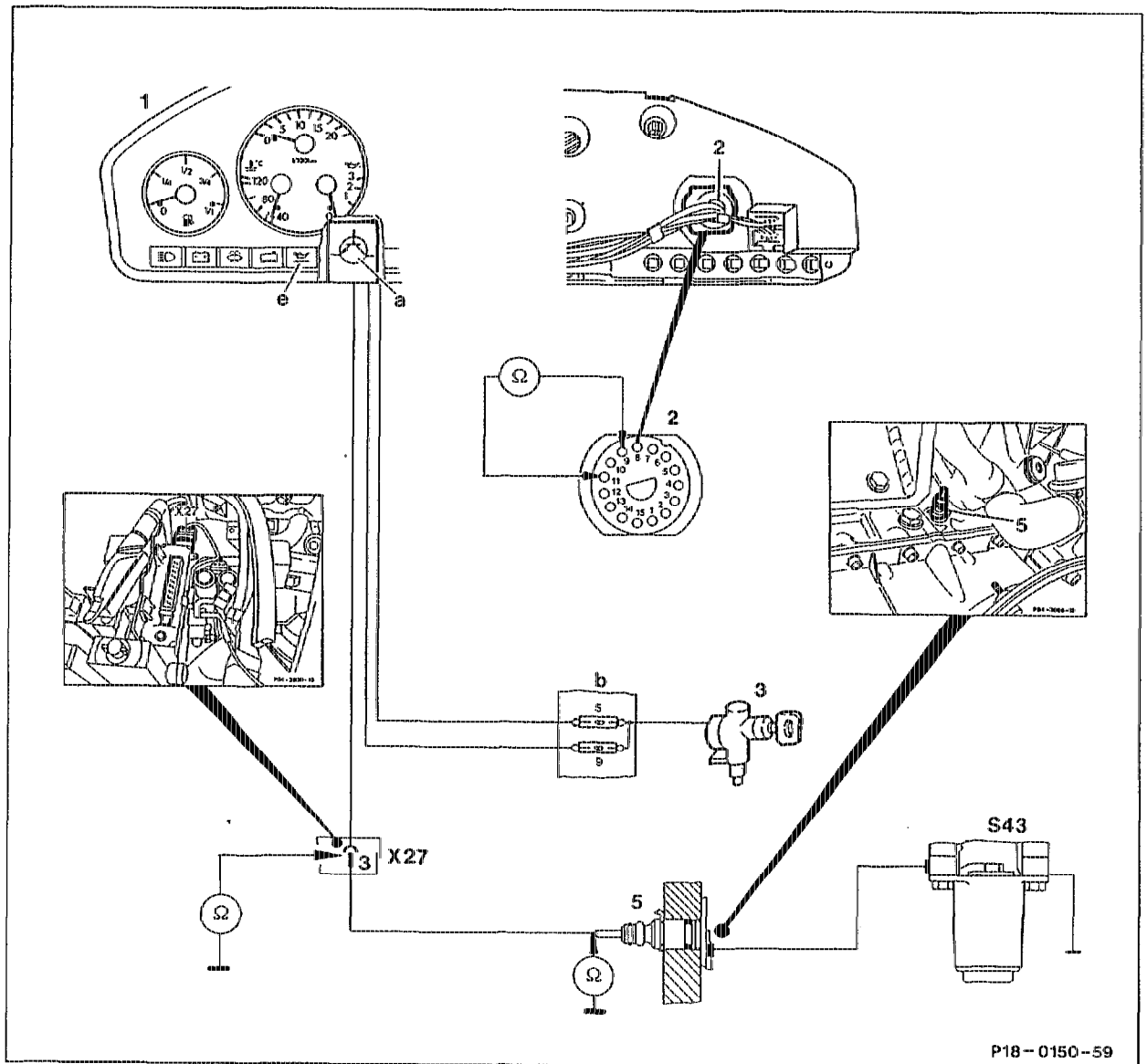


18-3320 Testing oil level sensor

Model 129



P18-0150-59

- | | | | |
|---|--|-----|---|
| 1 | Instrument cluster | a | Microprocessor |
| 2 | Connector 2, instrument cluster | b | Fuses 5 and 9 |
| 3 | Ignition starter switch | e | Oil level indicator lamp |
| 5 | Plug connection, oil level sensor
(bottom right of crankcase) | S43 | Oil level sensor |
| | | X27 | Plug connection, starter wiring harness |

If the following complaints exist:

- A: When key in position "2" indicator lamp (e) does not light up.
B: When engine oil at "max." level and engine running indicator lamp (e) remains on.
C: When engine oil at "max." level and engine
running (e) indicator lamp (e) lights up
intermittently.

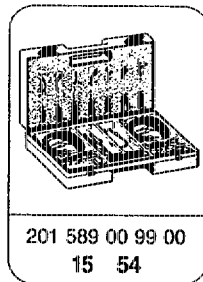
Test data

Resistance of oil level sensor at "max." oil level	< 0.10 Ω
Resistance of oil level sensor at "min." oil level	$\infty \Omega$

Test condition

Engine oil temperature	> 60 °C
Battery voltage	12 V

Special tool

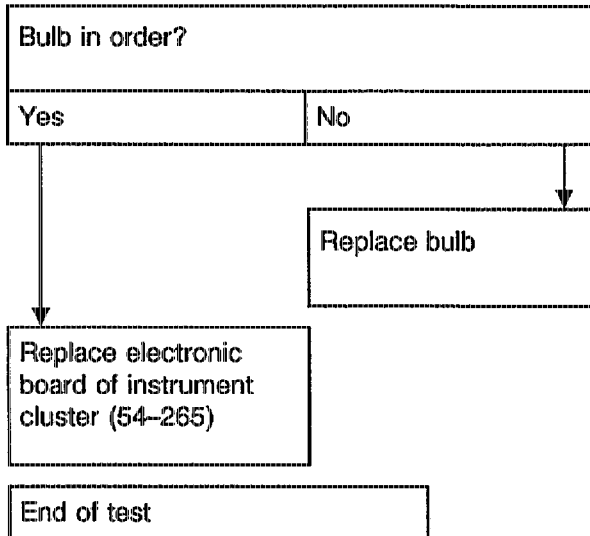


Commercially available tools or testers

Multimeter	e.g. Sun DMM-5
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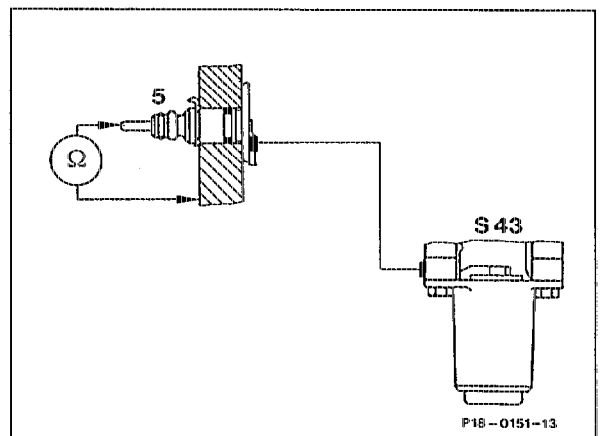
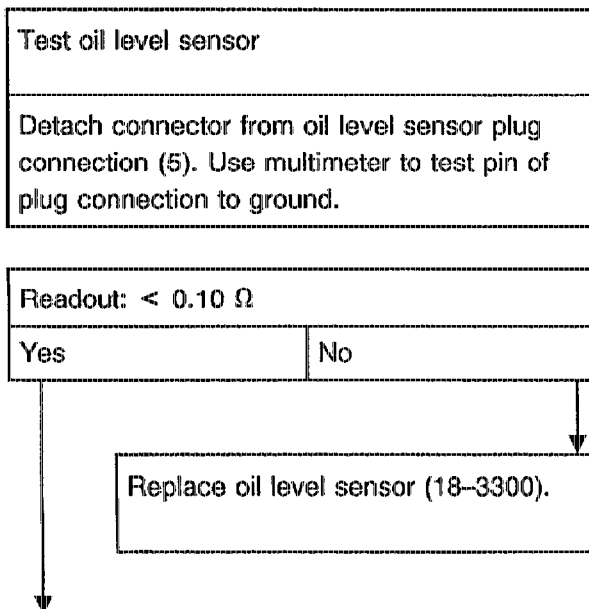
Test for complaint "A"

Indicator lamp (e) does not light up when key in position "2" (requirement: voltage supply of instrument exists).



Test for complaint "B"

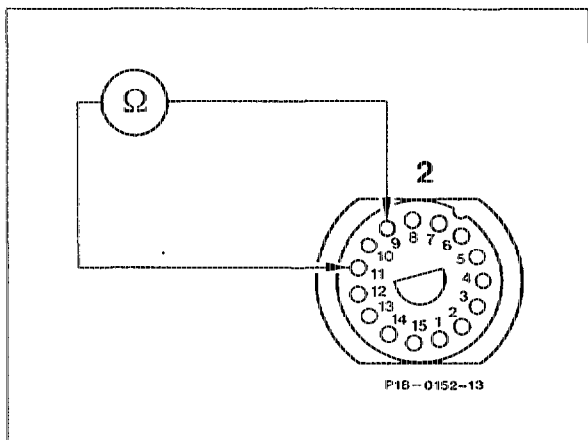
When engine oil at "max." level and engine running, indicator lamp (e) remains on.



Plug in connector of oil level sensor, test cable with oil level sensor to instrument cluster. Remove instrument cluster for this step (54-265). Unplug connector (2) and use multimeter to measure resistance between contact 9 (oil level sensor harness) and contact 11 (W1 main ground behind instrument cluster).

Readout: $< 1 \Omega$

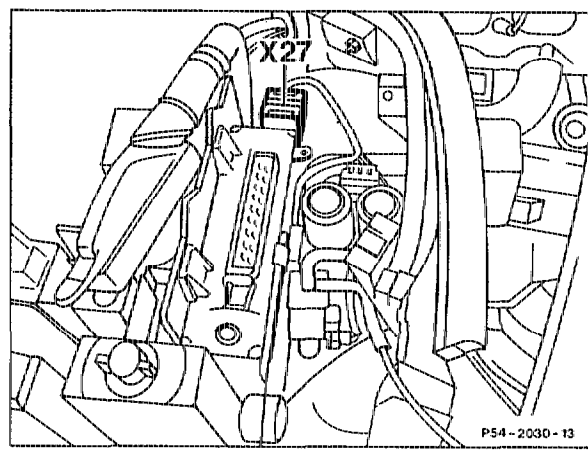
Yes	No
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Use multimeter to test pin 3 of plug connection (X27) to ground.
Readout: $< 1 \Omega$

Yes	No
-----	----

Wiring harness to instrument cluster has open circuit.	Starter wiring harness has open circuit.
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Replace electronic board in instrument cluster (54-265).

End of test

Test for complaint "C "

Indicator lamp (e) lights up intermittently when engine running and oil level correct.

