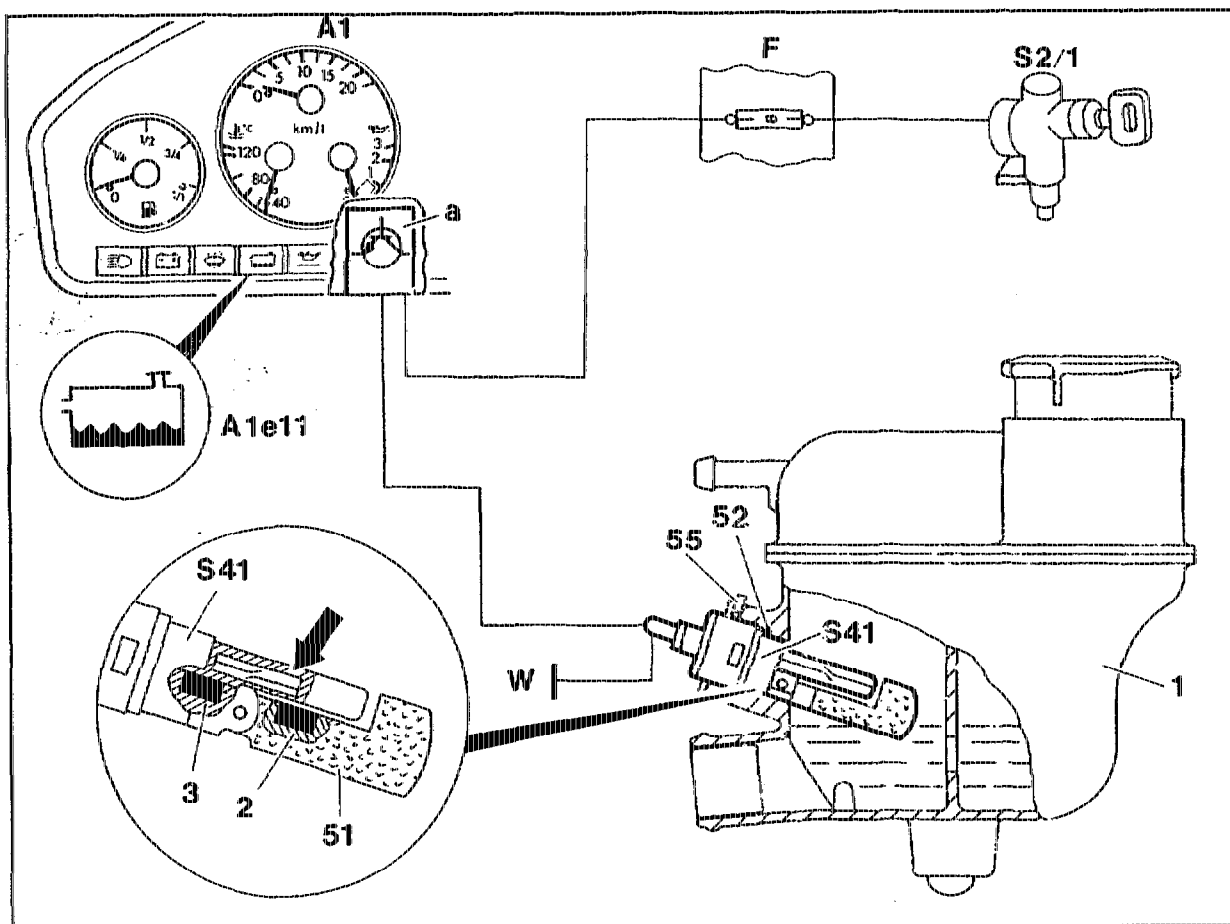


20-4450 Function of electrical coolant level indicator

Model 124



P20-5211-57A

1 Expansion reservoir
 51 Float
 52 O-ring
 55 Circlip
 A1 Instrument panel unit

A1e11 Coolant level warning lamp
 a Microprocessor (base plate)
 F Fuse and relay box
 S41 Coolant level sensor
 W Ground

General

The coolant level indicator monitors the coolant level in the expansion reservoir (1) when the engine is running.

When the ignition is switched on, the warning light (A1e11) comes on weakly (check function) and goes out if the coolant is at the correct level as soon as the engine is started.

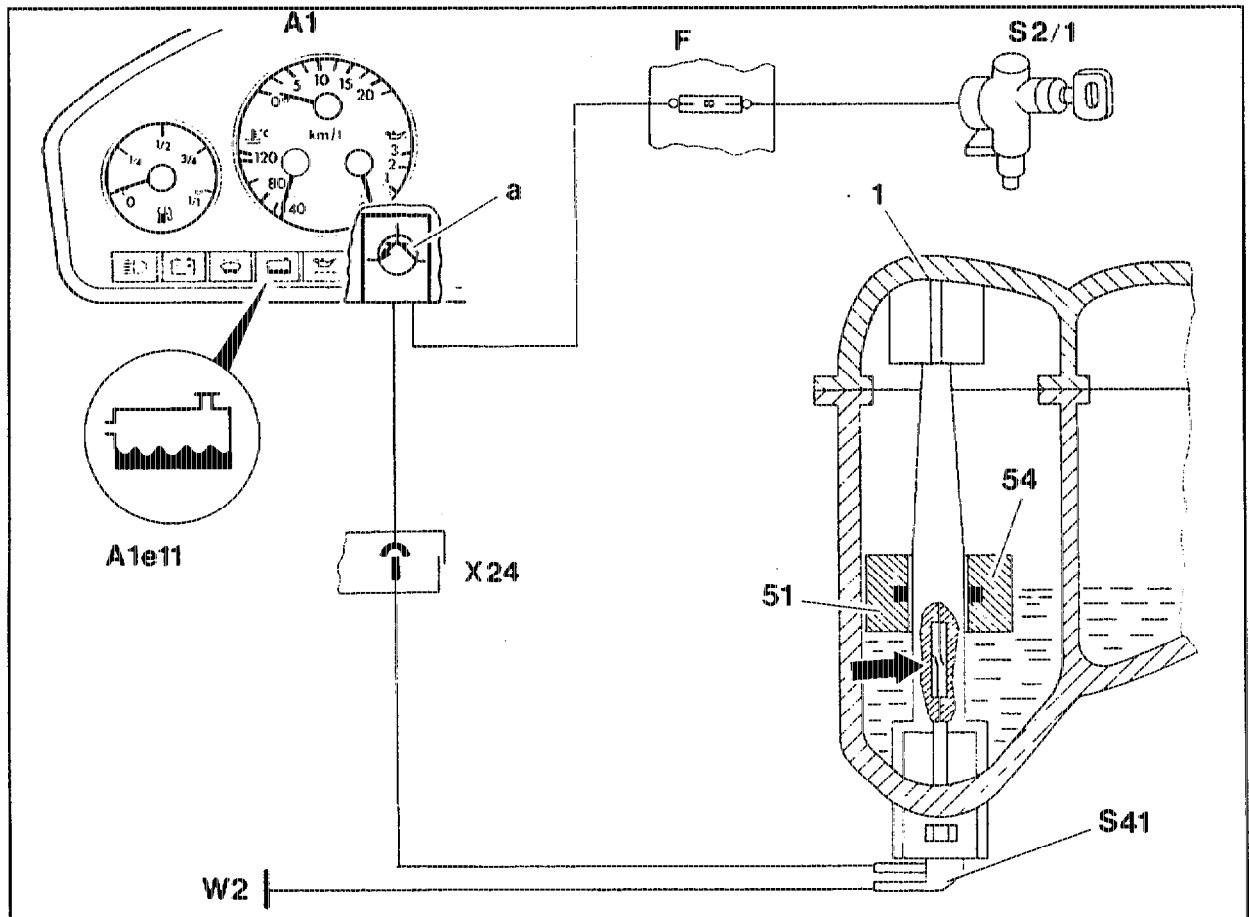
The coolant level sensor (S41) has two retaining lugs of different width and can only be installed in one position. It is sealed by means of an O-ring (52) and is fixed in place by a circlip (55).

Operation

If the coolant is at the correct level, a permanent magnet (2) in the float (51) and a permanent magnet (3) in the sensor (S41) keep a contact (arrow) open.

If the coolant level is too low, the float (51) moves down and the permanent magnet (3) closes the contact (arrow) in the coolant level sensor (S41). A permanent input signal (vehicle ground) exists at the microprocessor (a) in the electrical base plate of the instrument panel unit (A1) and the warning lamp (A1e11) comes on with a bright light.

Models 129, 140, 202, 210



P20-5212-57

Shown	on model 129
1	Expansion reservoir
51	Float
54	Ring magnet (permanent magnet)
A1	Instrument panel unit
A1e11	Coolant level warning lamp
a	Microprocessor (base plate)

F	Fuse and relay box
S41	Coolant level sensor
W2	Ground at front right (at headlight unit)
X24	Headlight wiring harness connector

General

In models 129, 140, 202, 210, coolant does not flow directly around the coolant level sensor (S41) and the sensor can be removed and installed without draining the coolant in the expansion reservoir (1).

Operation

If the coolant level is too low, the ring magnet (54) in the float (1) closes the contact (arrow) in the coolant level sensor (S41).

A permanent input signal (vehicle ground) exists at microprocessor (a) in the electrical base plate of the instrument panel unit (A1) and the warning light (A1e11) comes on with a bright light.

Test data

Resistance at coolant level sensor at "max" coolant level	$\infty \Omega$
Resistance at coolant level sensor at "min" coolant level	approx. 5 Ω
Battery voltage	approx. 12 V

Commercially available tool

Multimeter	e. g. SUN, DMM-5
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