

Computers and Control Systems: Diagnostic Trouble Code Tests and Associated Procedures

B2/5 (Hot Film MAF Sensor) : Check Wiring of Signal Line and Voltage

B2/5 (Hot Film MAF Sensor) :: Check Wiring of Signal Line and Voltage. (P0104)

Check component B2/5 (Hot Film MAF Sensor).

- Test 1 **Test Signal Voltage of Component B2/5 (Hot Film MAF Sensor) By Means Of Actual Value.**
Test 2 **Test Voltage Supply of Component B2/5 (Hot Film MAF Sensor).**

1 Test Signal Voltage of Component B2/5 (Hot Film MAF Sensor) By Means Of Actual Value.

Test requirement

- Battery voltage is o.k..
- The 5 voltage supply of component B2/5 (Hot film MAF sensor) is OK.
- The 12 voltage supply of component B2/5 (Hot film MAF sensor) is OK.
- Engine not running
- Ignition ON

Status of relevant actual value:

- HFM-SFI voltage: **Note!** Communication with ECU required

Specified value:

- Voltage [0,980...1,030] V

Question

- Are the measured values okay?

Yes

The actual values are okay.

Possible cause and remedy

- Check assignment of component B2/5 (Hot film MAF sensor) to engine model designation.

No

The measured values are not o.k.

Possible cause and remedy

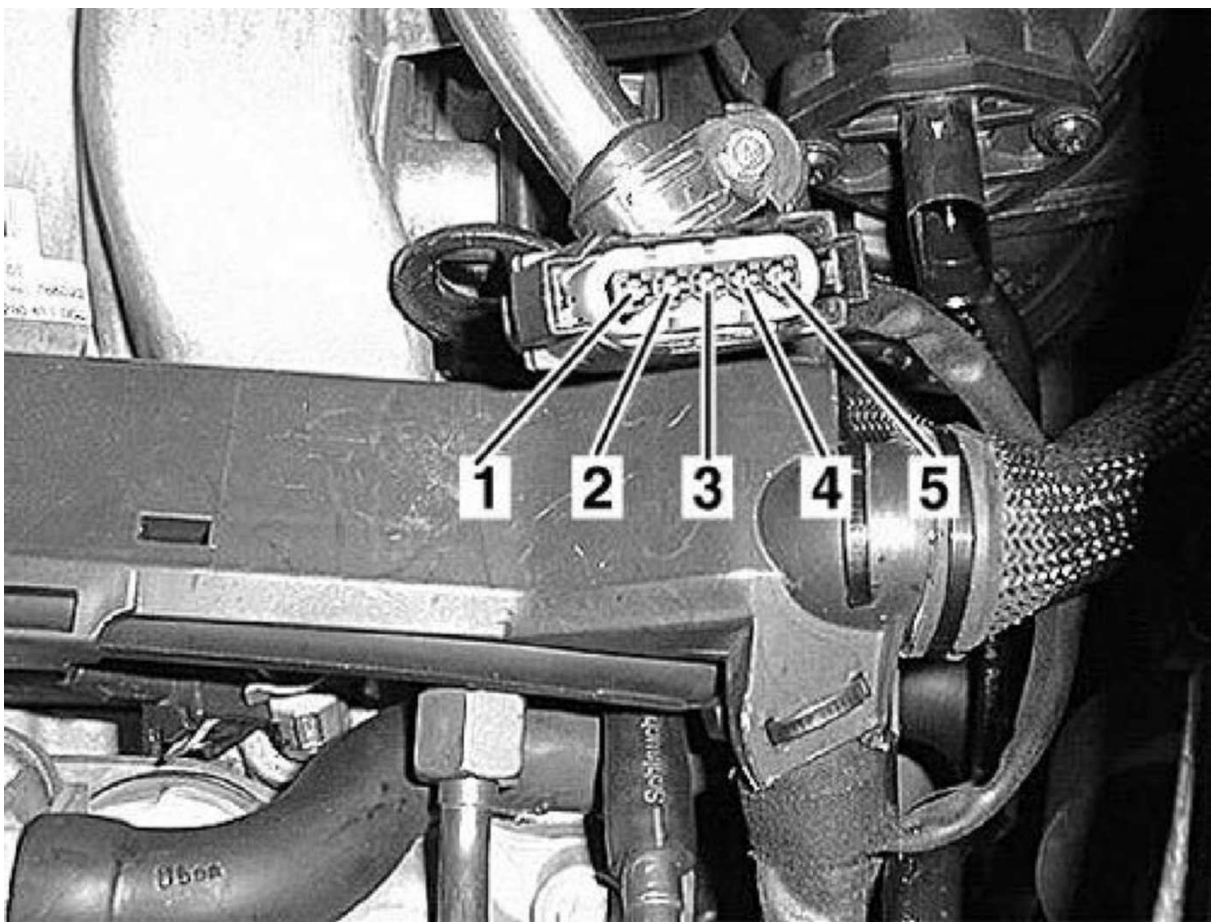
- Test voltage supply of component B2/5 (Hot film MAF sensor).
- Inspect cables from component N3/10 (ME-SFI control module) to component B2/5 (Hot film MAF sensor).
- B2/5 (Hot film MAF sensor)

** End of Test **

2 Test Voltage Supply of Component B2/5 (Hot Film MAF Sensor).

- Testr 2-1 **Test Voltage Supply 5V of Component B2/5 (Hot Film MAF Sensor).**
Test 2-2 **Test Voltage Supply 12V of Component B2/5 (Hot Film MAF Sensor).**

2-1 Test Voltage Supply 5V of Component B2/5 (Hot Film MAF Sensor).



Test requirement

- The actual value is not o.k.

Test sequence

- Switch off ignition.
- Detach the socket at the component B2/5 (Hot film MAF sensor).
- (B2/5) 3 <--> 4 (B2/5)
- Switch on ignition.

Specified value

- Voltage[4.75...5.25] V

Question

- Is the measured value okay?

Yes

The measured value is o.k. ** End of test **

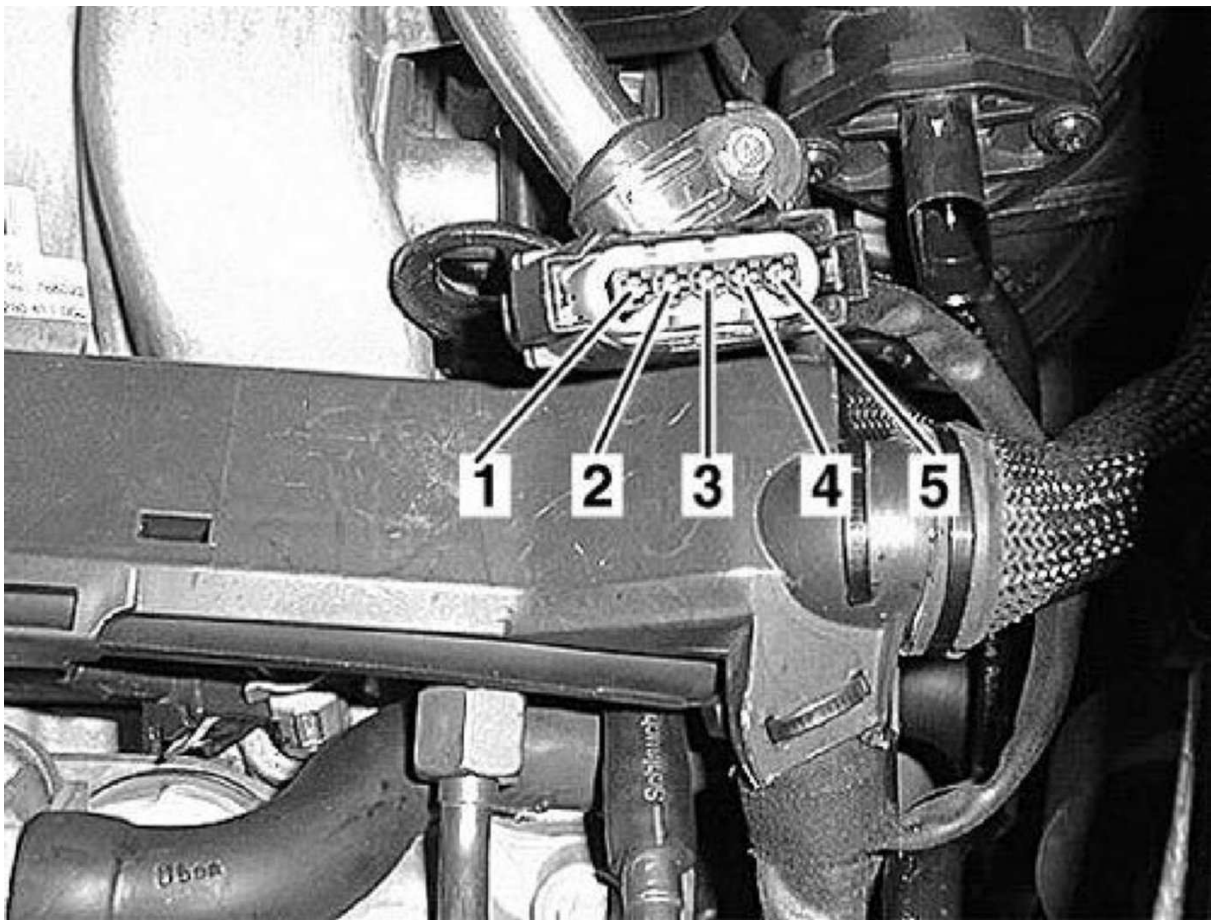
No

The measured value is not o.k. Possible cause and remedy : Test voltage supply of component B2/5 (Hot film MAF sensor). Test voltage supply of the following components for short circuit:

- B28 (Intake manifold pressure sensor)
- B37 (Accelerator pedal sensor)
- B40 (Oil sensor (oil level, temperature and quality))
- M16/6 (throttle valve actuator)
- B4/3 (Fuel tank pressure sensor)(only)

** End of Test **

2-2 Test Voltage Supply 12V of Component B2/5 (Hot Film MAF Sensor).



Test requirement

- The actual value is not o.k.

Test sequence

- Switch off ignition.
- Detach the socket at the component B2/5 (Hot film MAF sensor).
- (B2/5) 3 <--> 2 (B2/5)
- Switch on ignition.

Specified value

- Voltage[11.0...14.5] V

Question

- Is the measured value okay?

Yes

The measured value is o.k.

Further possible causes of fault

- Unmetered air
- Signal wire
- B2/5 (Hot film MAF sensor)

No

The measured value is not o.k.

Possible cause and remedy

- Cable for voltage supply

** End of Test **