




AD07.61-P-4000-45L	Pedal value sensor, ME-SFI fault code description	Engine 112.912 /916 /946 /953	AD
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1	Fault code () Display on generic scan tool)	P20CF Voltage difference between signal 1 and signal 2 (P0120) P20DC Interruption at signal path 1 (P0120) P20DD Short circuit at signal path 1 (P0120) P20DE Interruption at signal path 2 (P0120) P20DF Short circuit at signal path 2 (P0120) P20E3 Voltage supply to accelerator pedal sensor (P0120)
2	Fault storage Activation of the engine diagnosis indicator lamp (EURO3/4) or CHECK ENGINE (MIL) malfunction indicator lamp ()	After expiry of test duration and fault Following two successive driving cycles with faults
3	Checking frequency	Continuous
4	Checked signal or status	Voltages at accelerator pedal sensor
5	Fault setting conditions Voltage difference between signal 1 and signal 2 Short circuit to positive Short circuit to ground/open circuit Voltage supply	The signals may deviate from one another in the idle speed position no more than 8 %. For comparison purposes, signal 2 is multiplied by 2. If signal 1 is larger than 4.9 V or signal 2 larger than 2.4 V, a short-circuit to positive is present (12 V or 5 V) or the accelerator pedal sensor is faulty. If signal 1 is smaller than 0.2 V or signal 2 smaller than 0.1 V, the cause is a short to ground, an interruption or the accelerator pedal sensor is faulty. The voltage supply to the accelerator pedal sensor must lie between 4.75 to 5.25 V.
6	Check prerequisites	Ignition ON
7		In the event of a fault, emergency mode is activated.

B37 Accelerator pedal sensor (with 2 Hall elements)

N3/10 ME-SFI control unit

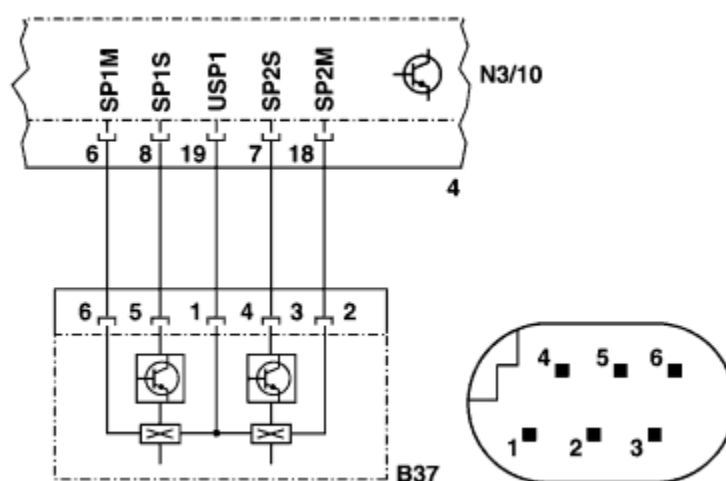
SP1M Ground, Hall element for signal 1

SP1S Signal 1 (limited to 5 V)

SP2M Ground, Hall element for Signal 2

SP2S Signal 2 (limited to 2.5 V)

USP1 Voltage supply to accelerator pedal sensor 5 V



P30.20-2033-11

