AD07.61-P-4000-11A	ME-SFI fault code description, misfire		
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1	Fault code	PD3DD Misfire, amount
		PDBD1 Misfire, cylinder 1
		PDBD2 Misfire, cylinder 2
		POBDE Misfire, cylinder 3
		PDBDY Misfire, cylinder 4
		PD3D5 Misfire, cylinder 5
		PD306 Misfire, cylinder 6
		PO460 Fuel level too low
		PO462 Fuel level too low
2	Error storage	after expiry of test duration and fault
	Activation of engine diagnostics	A Misfire (emission level)
	malfunction indicator lamp	The malfunction indicator lamp is activated after two successive faulty driving cycles
	(EURO3/4) or	B Misfire "damaging TWC" Malfunction indicator lamp immediately activated on case of misfiring
		Manufiction indicator famp inimediately activated on case of mislining
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3	Frequency of test	Continuously
4	Checked signal or status	Number of recognized misfires (detection through smooth operation analysis)
5	Limit values	A Maximum of 20 misfires within 1000 engine revolutions B Maximum of 4-35 misfires within 200 engine revolutions
		(map dependent on engine speed and load; e.g. 4 misfires as from medium engine
		speed and load, 35 misfires in neutral without load)
6	Test prerequisites	- Engine speed approx. 450 - 6000 rpm
		- Engine speed change less than 1900 rpm per second
		- Load change less than 50% per second - Engine started up at least 5 s earlier
		- No ESP control intervention function
		- Pulse-generator wheel adaptation in deceleration has taken place
		 No road bumps detected (via CAN by ASR/ESP control module, determined by comparing wheel speeds)
		No fault signal from camshaft Hall sensor
		- No inertia fuel shutoff
7	i	If too many misfires occur at a cylinder, the cylinder is cut off (cylinder-selective fuel cutoff).
		Misfires caused by ignition system faults
		If ignition does not take place misfiring occurs. If in addition to the misfiring faults ignition system faults are also stored, then start troubleshooting in the ignition system.
		Maximum permissible smooth-operation deviation on a cylinder approx. 3 ms2.
		If this value is exceeded, through switching off the ignition circuit, determine the
		ignition circuit causing it in the following manner: 1. Switch off an ignition circuit (a or b) using STAR DIAGNOSIS/HHT.
		2. Observe the smooth operation value at the affected cylinder.
		- Value alters insignificantly (up to approx. 2 ms2): The still switched on ignition circuit
		is fully operational.
		- Value alters significantly (more than approx. 2 ms2): The still switched on ignition circuit is faulty. Check spark plugs, ignition cable and ignition coil.
		Misfiring through fuel starvation
		If misfires are detected, and the fuel level is too low the fault codes PO460 or PO46
		are issued. This information indicates misfiring is occurring due to fuel starvation.
		Misfiring because of miscellaneous causes
		Misfiring can be caused by many faults in the injection system. Usually, the misfiring
		fault is stored along with faults to other components or functions. Faults in the engine mechanics may also be the cause of misfiring.
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