

MODEL 129 with ENGINE 104, 119, 120 with CODE (472a) electronic stability program (ESP)

MODEL 140 with CODE (472a) electronic stability program (ESP)

MODEL 210 with ENGINE 119 with CODE (472a) electronic stability program (ESP)

i	<p>Read out BAS system faults first as faults in other systems are stored in the BAS during the diagnostic mode. The fault code cannot be read out with the pulse counter.</p>		
	Electronic stability program (ESP) and SPS diagnosis, basic knowledge		AD42.45-P-2001A
	Connect Hand-Held Tester (HHT) and read out fault memory		AD00.00-P-2000-03A
i	Ignition: ON		
i	Read out fault memories of BAS, ETS, ME-SFI and ETC systems		
	If no fault is stored in the event of a complaint, carry out the whole of electronic stability program (ESP) and SPS testing electrical system		AD42.45-P-6001A
	Fault memory		
Fault code	Possible cause	Notes	Remedy
1000	ESP control module (N47-5)		N47-5
1010	Battery undervoltage, terminal 87		AD42.45-P-6001-01A
1011	Voltage supply for solenoid valves, open-circuit/short-circuit		AD42.45-P-6001-01A AD42.45-P-6001-21A
1020	CAN communication generally faulty		AD42.45-P-6001-27A Check ME-SFI coding (HHT) Check ETC coding (HHT)
1022	CAN communication with engine control module (ME-SFI) (N3/10) or right engine control module (ME-SFI) (N3/12) faulty		AD42.45-P-6001-27A Read out ME-SFI fault memory Check ME-SFI coding (HHT)
1023	CAN communication with left engine control module (ME-SFI) (N3/11) faulty		AD42.45-P-6001-27A Read out ME-SFI fault memory Check ME-SFI coding (HHT)
1024	CAN communication with transmission control module (N15/3) faulty		Read out ETC fault memory Check ETC coding (HHT)
1100	Left front axle VSS sensor (L6/1), open-circuit Left front axle VSS sensor (L6/1), loose contact Left front axle VSS sensor (L6/1), plausibility	Rotor with incorrect number of teeth, dirty or damaged, incorrect rear axle ratio, tires or wheels. If this fault only occurs after a repair, it was caused by the brake test bench or roller dynamometer - erase fault	AD42.45-P-6001-12A
1101	Right front axle VSS sensor (L6/2), open-circuit Right front axle VSS sensor (L6/2), loose contact Right front axle VSS sensor (L6/2), plausibility	Rotor with incorrect number of teeth, dirty or damaged, incorrect rear axle ratio, tires or wheels. If this fault only occurs after a repair, it was caused by the brake test bench or roller dynamometer - erase fault	AD42.45-P-6001-14A
1102	Left rear axle VSS sensor (L6/3), open-circuit Left rear axle VSS sensor (L6/3), loose contact		AD42.45-P-6001-16A

	Left rear axle VSS sensor (L6/3), plausibility	Rotor with incorrect number of teeth, dirty or damaged, incorrect rear axle ratio, tires or wheels. If this fault only occurs after a repair, it was caused by the brake test bench or roller dynamometer - erase fault	
C 1103	Right rear axle VSS sensor (L6/4), open-circuit Right rear axle VSS sensor (L6/4), loose contact Right rear axle VSS sensor (L6/4), plausibility	Rotor with incorrect number of teeth, dirty or damaged, incorrect rear axle ratio, tires or wheels. If this fault only occurs after a repair, it was caused by the brake test bench or roller dynamometer - erase fault	AD42.45-P-6001-18A
C 1120	ESP yaw rate sensor (N64) signal cable, open-circuit/short-circuit ESP yaw rate sensor (N64) reference cable, open-circuit/short-circuit		AD42.45-P-6001-25A
C 1140	Steering angle sensor (N49), steering angle sensor open-circuit/short-circuit, initializing		AD42.45-P-6001-26A
C 1141	ESP brake pressure sensor (B34)		AD42.45-P-6001-08A AD42.45-P-6001-24A
C 1142	Lateral acceleration sensor (B24/2), open-circuit/short-circuit		AD42.45-P-6001-23A
C 1200	Stop lamp switch (4-pin) (S9/1), open-circuit/short-circuit Stop lamp switch (4-pin) (S9/1), plausibility		AD42.45-P-6001-05A
C 1300	Left front axle solenoid valve (hold) (A7/3y6), open-circuit/short-circuit		AD42.45-P-6001-21B
C 1301	Left front axle solenoid valve (release) (A7/3y7), open-circuit/short-circuit		AD42.45-P-6001-21B
C 1302	Right front axle solenoid valve (hold) (A7/3y8), open-circuit/short-circuit		AD42.45-P-6001-21B
C 1303	Right front axle solenoid valve (release) (A7/3y9), open-circuit/short-circuit		AD42.45-P-6001-21B
C 1304	Left rear axle solenoid valve (hold) (A7/3y10), open-circuit/short-circuit		AD42.45-P-6001-21B
C 1305	Left rear axle solenoid valve (release) (A7/3y11), open-circuit/short-circuit		AD42.45-P-6001-21B
C 1306	Right rear axle solenoid valve (hold) (A7/3y12), open-circuit/short-circuit		AD42.45-P-6001-21B
C 1307	Right rear axle solenoid valve (release) (A7/3y13), open-circuit/short-circuit		AD42.45-P-6001-21B
C 1308	Front axle precharge solenoid valve (A7/3y16), open-circuit/short-circuit		AD42.45-P-6001-21C
C 1309	Rear axle precharge solenoid valve (A7/3y17), open-circuit/short-circuit		AD42.45-P-6001-21C
C 1310	Front axle switchover solenoid valve (A7/3y18), open-circuit/short-circuit		AD42.45-P-6001-21C
C 1311	Rear axle switchover solenoid valve (A7/3y19), open-circuit/short-circuit		AD42.45-P-6001-21C
C 1312	Master brake cylinder switchover valve (Y61)		AD42.45-P-6001-07A
C 1313	Solenoid valve relay		Control module ESP (N47-5)
C 1400	ASR/ESP charging pump (M15), open-circuit/short-circuit		AD42.45-P-6001-08A
C 1401	High-pressure/return pump (A7/3m1), open-circuit/short-circuit High-pressure/return pump (A7/3m1), does not switch off		AD42.45-P-6001-09A AD42.45-P-6001-10A
C 1500	Speed sensor plausibility	Rotor with incorrect number of teeth, dirty or damaged, incorrect rear axle ratio, tires or wheels. If this fault only occurs after a repair, it was caused by the brake test bench or roller dynamometer - erase fault	AD42.45-P-6001-12A AD42.45-P-6001-14A AD42.45-P-6001-16A AD42.45-P-6001-18A
C 1501	SPS P-valve (Y10)		AD42.45-P-6001-11A
C 1503	Charging piston unit		Check condition of rear brakes Charging piston unit

C 1504	System has switched off		Steering angle not initialized AD42.45-P-6001-26A Undervoltage at yaw rate sensor AD42.45-P-6001-25A
--------	-------------------------	--	---