

Fault table: SAE P1 and P3 codes

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Notes:

- The fault code overview is listed according to SAE or V.A.G code.
- Erase fault memory after rectifying fault =>Page [01-17](#).

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1102	17510	Bank 1, probe 1 heating element circuit, short to positive	- Check Lambda probe heating before catalyst => Page 24-88
P1105	17513	Bank 1, probe 2 heating element circuit, short to positive	- Check Lambda probe heating after catalyst => Page 24-38
P1115	17523	Bank 1, probe 1 heating element circuit, short to earth	- Check Lambda probe heating before catalyst => Page 24-33
P1116	17524	Bank1, probe 1 heating element circuit, open circuit	
P1117	17525	Bank 1, probe 2 heating element circuit, short to earth	- Check Lambda probe heating after catalyst => Page 24-38
P1118	17526	Bank1, probe 2 heating element open circuit	

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1141	17549	Load determination, implausible value	- Check air mass meter => Page 24-81
P1171	17579	Angle sens. 2 for throt. valve drive -G188, implausible signal	- Check throttle valve control part => Page 24-52 - Clean throttle valve control part
P1172	17580	Angle sens. 2 for throt. valve drive -G188, signal too small	
P1173	17581	Angle sens. 2 for throt. valve drive -G188, signal too large	

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1176	17584	Bank 1, Lambda correction after catalyst, control limit reached	- Check fuel pressure regul. and holding pressure => Page 24-77 - Check injectors=>Page 24-70 - Check fuel pump: - Check intake system for leaks => Page 24-81 - Check Lambda probe and Lambda regulation after catalyst => Page 24-96 - Check Lambda probe and Lambda regulation before catalyst => Page 24-88

			- Check secondary air system for leaks:
			- Check activated charcoal filter solenoid valve 1 => Page 01-55 , Final control diagnosis

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1213	17621	Injector Cyl. 1 -N30 short to positive	- Check injectors =>Page 24-70
P1214	17622	Injector Cyl. 2 -N31 short to positive	
P1215	17623	Injector Cyl. 3 -N32 short to positive	
P1216	17624	Injector Cyl. 4 -N33 short to positive	
P1225	17633	Injector Cyl. 1 -N30 short to earth	
P1226	17634	Injector Cyl. 2 -N31 short to earth	
P1227	17635	Injector Cyl. 3 -N32 short to earth	
P1228	17636	Injector Cyl. 4 -N33 short to earth	
P1237	17645	Injector Cyl. 1 -N30 open circuit	
P1238	17646	Injector Cyl. 2 -N31 open circuit	
P1239	17647	Injector Cyl. 3 -N32 open circuit	
P1240	17648	Injector Cyl. 4 -N33 open circuit	

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1250	17658	Fuel level too low 1)	- Fill fuel tank
P1335	17743	Engine torque monitoring 2, control limit exceeded	- Check hose connections Check intake system for leaks (unmetered air) => Page 24-81 - Check intake air temperature sender => Page 24-47
P1336	17744	Engine torque monitoring control limit exceeded	- Check air mass meter => Page 24-43 - Check coolant temperature sender => Page 24-61 - Renew engine control unit (J361) => Page 24-120

1) This fault code is only detected in conjunction with other fault codes. An empty fuel tank can be the cause of the other stored fault. Therefore erase fault memory after filling tank and carry out a test drive. Then interrogate the engine control unit fault memory again => Page [01-17](#).

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1341	17749	Ignition output 1 Short to earth 1)	- Check ignition transformer => Page 28-10
P1342	17750	Ignition output 1 Short to positive 1)	
P1343	17751	Ignition output 2 Short to earth 2)	
P1344	17752	Ignition output 2 Short to positive 2)	
			- Replace engine control unit

P1386	17794	Control unit defective	(J361) => Page 24-120
P1388	17796	Control unit defective	

1) The ignition output 1 provides the high tension voltage for cylinders 1 and 4 because a double ignition coil is installed. Both cylinders are always ignited at the same time. One cylinder is just before TDC on the compression stroke and the other cylinder is on the exhaust stroke.

2) The ignition output 2 provides the high tension voltage for cylinders 2 and 3 because a double ignition coil is installed. Both cylinders are always ignited at the same time. One cylinder is just before TDC on the compression stroke and the other cylinder is on the exhaust stroke.

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1397	17805	Sender wheel for engine speed, adaption limit reached	<ul style="list-style-type: none"> - Check engine speed sender =>Page 24-67 - Remove engine speed sender and check sender wheel is not damaged and is seated securely.

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1410	17818	Tank breathing valve -N80 short to positive	- Check activated charcoal filter solenoid valve 1=> Page 01-55 , Final control diagnosis
P1423	17831	Bank 1, secondary air system, flow rate insufficient	<ul style="list-style-type: none"> - Check secondary air system: - Check hoses and pipe connections to and between components:
P1425	17833	Tank venting valve -N80, short to earth	- Check activated charcoal filter solenoid valve 1=> Page 01-55 , Final control diagnosis
P1426	17834	Tank venting valve -N80, open circuit	

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1434	17842	Relay for secondary air pump -J299, short to positive	- Check relay for secondary air inlet valve => Page 01-55 , Final control diagnosis
P1435	17843	Relay for secondary air pump -J299, short to earth 1)	

1) This fault is also indicated for an open circuit in the wiring.

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1427	17835	Activation of brake vacuum pump, Short to positive	<ul style="list-style-type: none"> - Check brake vacuum pump=> Page 01-55, Final control diagnosis - Perform short test of brake vacuum pump:
P1428	17836	Activation of brake vacuum pump, Short to earth	
P1429	17837	Activation of brake vacuum pump, Open circuit	
		Activation of brake vacuum pump,	

P1431	17839	Open circuit/short to earth	
P1479	17887	Brake vacuum system, Mechanical fault	- Check brake system:

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1501	17909	Fuel pump relay -J17, short to earth 1)	- Check fuel pump relay=> Page 01-55 , Final control diagnosis
P1502	17910	Fuel pump relay -J17 short to positive	

1) This fault is also indicated for an open circuit in the wiring.

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1503	17911	Load signal from alternator terminal DF, Implausible signal	- Check wiring to alternator: => Current flow diagrams, Electrical fault finding and Fitting locations binder
P1512	17920	Intake manifold changeover valve -N156 short to positive	- Check intake manifold changeover valve=> Page 01-55 , Final control diagnosis
P1515	17923	Intake manifold changeover valve -N156 short to earth	
P1516	17924	Intake manifold changeover valve -N156, open circuit	

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1542	17950	Angle sender for throt.val.drive -G187, implausible signal	- Check throttle valve control unit => Page 24-52 - Clean throttle valve control part
P1543	17951	Angle sender for throt.val.drive -G187, signal too small	
P1544	17952	Angle sender for throt.val.drive -G187, signal too large	
P1545	17953	Throttle valve control faulty	
P1558	17966	Throttle valve drive -G186, fault in electrical circuit	

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1559	17967	Throttle valve control part -J338, Fault in basic setting	- Adapt engine control unit to throttle valve control part => Page 24-130 - Clean throttle valve control part
P1560	17968	Maximum engine revs exceeded	- Interrogate and erase fault memory of engine control unit => Page 01-17 Repair mechanical damage
P1564	17972	Throttle valve control part -J338, Low voltage at basic setting	- Check battery, charge if necessary Adapt engine control unit to throttle valve control part =>

			Page 24-130
P1565	17973	Throttle valve control part -J338, Lower limit not reached	- Check throttle valve control part=> Page 24-52 - Clean throttle valve control part
P1568	17976	Throttle valve control part -J338, mechanical fault	

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1569	17977	Cruise cont. sys. switch -E45, implausible signal	- Check cruise control system : - Evaluate measured value block 66
P1570	17978	Engine control unit blocked	- Adapt engine control unit (J361) to electronic immobilizer: => Electrical system self-diagnosis; Repair group 01
P1579	17987	Throttle valve control part -J338 Adaption not started	- Adapt engine control unit to throttle valve control part => Page 24-130

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1602	18010	Voltage supply terminal 30, Voltage supply too low	- Check voltage supply for control unit => Page 24-113
P1603	18011	Control unit defective	- Renew engine control unit (J361) => Page 24-120
P1606	18014	Poor road info.eng.sp.torq.from ABS CU Fault in electrical circuit 1)	- Check coding Check wiring between engine control unit and ABS control unit => Current flow diagrams, Electrical fault finding and Fitting locations
P1609	18017	Crash switch-off triggered	- Interrogate and erase fault memory of engine control unit => Page 01-17 => Body self-diagnosis; Repair group 01; Self-diagnosis; Self-diagnosis for airbag system
P1610	18018	Control unit defective	- Renew engine control unit (J361) => Page 24-120
P1612	18020	Engine control unit incorrectly coded	- Code engine control unit => Page 24-124

1) Not vehicles with data bus capable ABS.

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1624	18032	Request warning lamp be switched on active	- Interrogate automatic gearbox fault memory :
P1625	18033	Drive train data bus Implausible message from gearbox CU	- Interrogate fault memory of automatic gearbox : - Check coding => Page 24-124

			- Check data bus: => Current flow diagrams, Electrical fault finding and Fitting locations binder
P1626	18034	Drive train data bus No message from gearbox CU	

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1630	18038	Accelerator position sender -G79, Signal too low	- Check accelerator pedal position sender: => Repair group 20; Electronic power control (EPC); Checking accelerator pedal position sender
P1631	18039	Accelerator position sender -G79, Signal too high	
P1633	18041	Accelerator position sender 2 -G185, Signal too low	
P1634	18042	Accelerator position sender 2 -G185, Signal too high	

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1635	18043	Drive train data bus No message from AC control unit	- Interrogate fault memory of Climatronic: => Heating, Air conditioning; Repair group 01; Climatronic self-diagnosis; Interrogating fault memory - Check coding => Page 24-124 - Check data bus: => Current flow diagrams, Electrical fault finding and Fitting locations binder

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1636	18044	Drive train data bus No message from airbag CU	- Interrogate fault memory of airbag system: => Body self-diagnosis; Repair => group 01; Self-diagnosis for airbag systems - Check coding => Page 24-124 - Check data bus: => Current flow diagrams, Electrical fault finding and Fitting locations binder
P1639	18047	Accelerator pedal position senders 1/2 -G79+G185, Implausible signal	- Check accelerator pedal position sender: => Repair group 20; Electronic power control (EPC); Checking accelerator pedal position sender
P1640	18048	Control unit defective	- Replace engine control unit (J361) => Page 24-120

Fault code		Fault text	Fault elimination
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SAE	V.A.G		
P1648	18056	Drive train data bus defective	- Check matching resistor for data bus =>Page 24-138 - Check data bus: => Current flow diagrams, Electrical fault finding and Fitting locations binder
P1649	18057	Drive train data bus no messages from ABS control unit	- Interrogate ABS control unit fault memory => Running gear self-diagnosis for ABS; Repair group 01; Performing self-diagnosis; Interrogating fault memory - Check coding => Page 24-124 - Check data bus: => Current flow diagrams, Electrical fault finding and Fitting locations binder

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1650	18058	Drive train data bus No messages from combi-instrument	- Interrogate combi-instrument fault memory => Electrical system self-diagnosis; Repair group 01; Self-diagnosis of dash panel insert - Check data bus: => Current flow diagrams, Electrical fault finding and Fitting locations binder
P1657	18065	Air conditioner input/output Short to positive	- Check signal to/from air conditioner => Page 24-145
P1680	18088	Reset window, emergency run active	- Check throttle valve control part => Page 24-52 - Check accelerator pedal position sender:

Fault code		Fault text	Fault elimination
SAE	V.A.G		
P1912	18320	Pressure sensor for brake servo -G294 Open/short circuit to positive	- Check pressure sensor for brake servo:
P1913	18321	Pressure sensor for brake servo -G294 Short to earth	