

Fault table (16395 to 17658)

Fault table

Notes:

- ◆ If faults occur in the monitored sensors and components, these are stored in the fault memory together with an indication of type of fault.
- ◆ Faults related to EPC are additionally indicated by the warning lamp for the electronic throttle control ("EPC warning lamp") which is situated in the dash panel insert. Notes on EPC system =>Page [24-133](#).
- ◆ Faults which cause the exhaust emission to deteriorate are displayed with an exhaust warning lamp in the dash panel insert. Notes on exhaust warning lamp =>Page [24-40](#).
- ◆ The fault table is sorted according to the 5-digit fault code on the left.
- ◆ If a stored fault does not appear within the next 40 warm-up phases, the fault code will be automatically erased.
- ◆ Sporadic faults are marked "SP" (sporadic fault) on the V.A.G 1551 display. The word "sporadic" signifies individually occurring, random faults.
- ◆ Do not immediately replace components indicated as faulty by the V.A.G 1551 but first check the wiring and connectors of these components against the current flow diagram. Also check the earth connections against current flow diagram. This is particularly relevant for faults recorded as "occurring sporadically" (SP).
- ◆ If the connector is unplugged from engine control unit or if the battery is disconnected, all the stored values in the control unit will be erased. However, the contents of the fault memory are retained. If the engine is then started, it may run rough for a short period. In this case, the engine should be run at idling speed for a few minutes until the adaption process is concluded.
- ◆ After erasing the fault memory =>Page [01-75](#).

Fault code		Fault readout	Fault remedy
SAE	V.A.G		
P0011	16395	Bank 1, advanced camshaft timing Specified value not achieved 1)	=> 4-cylinder engine (5-valve, turbo), Mechanical Components; Repair group 15; Checking camshaft timing control
P0012	16396	Bank 1, camshaft timing control Specified value not achieved 1)	
P0101	16485	Air mass meter -G70 Implausible signal 1)	- Check air mass meter => Page 24-75
P0102	16486	Air mass meter -G70 Signal too small 1)	
P0103	16487	Air mass meter -G70 Signal too great 1)	
P0106	16490	Intake manifold pressure/air pressure =>G71/-F96 Implausible signal 1) 2)	=> 4-cylinder engine (5-valve, turbo), Mechanical Components; Repair group 21; Checking charge air system with turbocharger

1) If this fault occurs within three driving cycles (engine running at least 5 seconds) the engine control unit switches on the exhaust warning lamp in dash panel insert. Notes on exhaust warning lamp => Page [24-40](#).

2) The intake manifold pressure is determined by the boost pressure sender -G31 (in place of displayed -G71), the air pressure is determined by altitude sender -F96 (in engine control unit).

Fault code		Fault readout	Fault remedy
SAE	V.A.G		
P0112	16496	Intake air temperature sender -G42 Signal too small 1)	- Check the intake air temperature sender =>Page 28-21 .
P0113	16497	Intake air temperature sender -G42 Signal too great 1)	
P0116	16500	Coolant temperature sender -G62 Implausible signal 1)	- Check coolant temperature sensor =>Page 28-30 .
P0117	16501	Coolant temperature sender -G62 Signal too small 1)	
P0118	16502	Coolant temperature sender -G62 Signal too great 1)	

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Fault code		Fault readout	Fault remedy
SAE	V.A.G		
P0130	16514	Bank 1, probe 1 Electrical fault in circuit 1)	- Check lambda probe and lambda control upstream of catalytic converter => Page 24-86
P0131	16515	Bank 1, probe 1 Voltage too low 1)	
P0132	16516	Bank 1, probe 1 Voltage too high 1)	
P0133	16517	Bank 1, probe 1 Signal too slow 1)	
P0134	16518	Bank 1, probe 1 No activity 1)	
P0135	16519	Bank 1, probe 1 Heating circuit Electrical fault1)	

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Fault code		Fault readout	Fault remedy
SAE	V.A.G		
P0136	16520	Bank 1, probe 2 Electrical fault in circuit 1)	- Check lambda probe and lambda control downstream of catalytic converter => Page 24-108

P0137	16521	Bank 1, probe 2 Voltage too low 1)	
P0138	16522	Bank 1, probe 2 Voltage too high 1)	
P0139	16523	Bank1, probe 2 Signal too slow 1)	
P0140	16524	Bank 1, probe 2 No activity 1)	
P0236	16620	Boost pressure sender -G31 Implausible signal 1)	=> 4-cylinder engine (5-valve, turbo), Mechanical Components; Repair group 21; Checking charge air system with turbocharger
P0237	16621	Boost pressure sender -G31 Signal too small 1)	
P0238	16622	Boost pressure sender -G31 Signal too great 1)	

1) If this fault occurs within three driving cycles (engine running at least 5 seconds) the engine control unit switches on the exhaust warning lamp in dash panel insert. Notes on exhaust warning lamp => Page [24-40](#).

Fault code		Fault readout	Fault remedy
SAE	V.A.G		
P0300	16684	Misfire detected 1)	<ul style="list-style-type: none"> - Check the fuel pressure =>Page 24-53 - Check spark plugs and ignition cables with connectors - Ignition coils with output stages Check => Page 28-4 - Check misfire detection => Page 28-52 - Refuel the vehicle
P0301	16685	Cyl 1 Misfire detected 1)	
P0302	16686	Cyl 2 Misfire detected 1)	
P0303	16687	Cyl 3 Misfire detected 1)	
P0304	16688	Cyl 4 Misfire detected 1)	
P0321	16705	Engine speed sender -G28 Implausible signal 1)	
P0322	16706	Engine speed sender -G28 no signal 1) 3)	

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3) With this fault, engine control unit switches on EPC warning lamp in dash panel insert. Notes on EPC warning lamp =>Page [24-135](#).

Fault code		Fault readout	Fault remedy

SAE	V.A.G		
P0327	16711	Knock sensor 1 -G61 Signal too small 1)	- Check knock sensor => Page 28-42
P0328	16712	Knock sensor 1 -G61 Signal too great 1)	
P0332	16716	Knock sensor 2 -G66 Signal too small 1)	
P0333	16717	Knock sensor 2 -G66 Signal too great 1)	
P0341	16725	Camshaft position sensor => sender -G40 Implausible signal 1)	- Check Hall sender => Page 28-46
P0342	16726	Camshaft position sensor => sender -G40 Signal too small 1)	
P0343	16727	Camshaft position sensor => sender -G40 Signal too great 1)	

1) If this fault occurs within three driving cycles (engine running at least 5 seconds) the engine control unit switches on the exhaust warning lamp in dash panel insert. Notes on exhaust warning lamp => Page [24-40](#).

Fault code		Fault readout	Fault remedy
SAE	V.A.G		
P0411	16795	Secondary air system Through flow faulty 1)	=> 4-cylinder engine (5-valve, turbo), Mechanical Components; Repair group 26; Checking secondary air system Check hose connections (valve for secondary air inlet); Check intake system for leakages (unmetered air) => Page 24-83 .
P0420	16804	Bank1, catalytic converter system Inefficient 1)	- Produce readiness code => Page 24-40
P0422	16806	Bank1, main catalytic converter inefficient	
P0441	16825	Fuel tank breather system Through flow faulty 1)	- Check solenoid valve 1 for activated charcoal filter => Page 24-127

1) If this fault occurs within three driving cycles (engine running at least 5 seconds) the engine control unit switches on the exhaust warning lamp in dash panel insert. Notes on exhaust warning lamp => Page [24-40](#).

Fault code		Fault readout	Fault remedy
SAE	V.A.G		
			- Check speed

P0501	16885	Vehicle speed signal Implausible signal 1)	signal =>Page 24-174 .
P0506	16890	Idling speed regulation Engine speed below specified value 1)	- Check throttle valve control part =>Page 24-137 .
P0507	16891	Idling speed regulation Engine speed above specification	- Check hose connections (valve for secondary air inlet); Check intake system for leakages (unmetered air) => Page 24-83 .
P0560	16944	Voltage supply Implausible signal	- Check voltage supply for control unit =>Page 28-35
P0562	16946	Voltage supply Voltage too low	
P0563	16947	Voltage supply Voltage too high	
P0571	16955	Brake light switch -F4) Implausible signal	- Check brake light switch and brake pedal switch => Page 24-160

1) If this fault occurs within three driving cycles (engine running at least 5 seconds) the engine control unit switches on the exhaust warning lamp in dash panel insert. Notes on exhaust warning lamp => Page [24-40](#).

4) The brake pedal switch -F47 is monitored in addition to the brake light switch -F47.

Fault code		Fault readout	Fault remedy
SAE	V.A.G		
P0601	16985	Control unit defective 1)	- Replace engine control unit =>Page 24-24
P0604	16988	Control unit defective 1)	
P0605	16989	Control unit defective 1)	
P0606	16990	Control unit defective	
P0685	17069	Main relay => -J271 Open circuit 1)	- Check power supply relay - J271 for Motronic => Page 28-13
P0686	17070	Main relay => -J271 Short to earth 1)	
P0687	17071	Main relay => -J271 Short to positive 1)	
P0688	17072	Main relay, load circuit => -J271 Open circuit 1) 3)	

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switches on the exhaust warning lamp in dash panel insert. Notes on exhaust warning lamp => Page [24-40](#).

3) With this fault, engine control unit switches on EPC warning lamp in dash panel insert. Notes on EPC warning lamp =>Page [24-135](#).

Fault code		Fault readout	Fault remedy
SAE	V.A.G		
P1102	17510	Bank 1, probe 1, heating circuit Short to positive 1)	- Lambda probe heating upstream of catalytic converter: Check => Page 24-103
P1103	17511	Bank 1, probe 1, heating circuit Too inefficient 1)	- Check lambda probe heating downstream of catalytic converter => Page 24-120
P1105	17513	Bank 1, probe 1, heating circuit Short to positive 1)	
P1111	17519	Lambda control Bank1 System too lean	- Check Lambda control upstream of catalytic converter =>Page 24-86 .
P1112	17520	Lambda control Bank1 System too rich	
P1113	17521	Bank 1, probe 1 Internal resistance too high	- First check signal wires for contact resistances => Page 24-97 ; if there are no contact resistances: Fit a new lambda probe
P1114	17522	Bank 1, probe 2 Internal resistance too high 1)	- First check signal wires for contact resistances => Page 24-118 ; if there are no contact resistances: Fit a new lambda probe

1) If this fault occurs within three driving cycles (engine running at least 5 seconds) the engine control unit switches on the exhaust warning lamp in dash panel insert. Notes on exhaust warning lamp => Page [24-40](#).

Fault code		Fault readout	Fault remedy
SAE	V.A.G		
			- Check lambda probe heating

P1115	17523	Bank 1, probe 1, heating circuit Short to earth 1)	upstream of catalytic converter => Page 24-103
P1116	17524	Bank 1, probe 1, heating circuit Open circuit 1)	
P1117	17525	Bank 1, probe 1, heating circuit Short to earth 1)	- Check lambda probe heating downstream of catalytic converter => Page 24-120
P1118	17526	Bank 1, probe 1, heating circuit Open circuit 1)	

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Fault code		Fault readout	Fault remedy
SAE	V.A.G		
P1127	17535	Bank 1, mixture adaption (mult.) System too rich	- Perform road test (fuel in oil) Check fuel system pressure => Page 24-83 . - Check lambda probe upstream of catalytic converter =>Page 24-53
P1128	17536	Bank 1, mixture adaption (mult.) System too lean	

Note:

mult. = multiplicative means that the fault occurs throughout the entire speed range and load range.

Fault code		Fault readout	Fault remedy
SAE	V.A.G		
P1136	17544	Bank 1, mixture adaption (add.) System too lean	- Perform road test (fuel in oil) Check fuel system pressure => Page 24-83 . - Check lambda probes downstream of catalytic converter =>Page 24-127
P1137	17545	Bank 1, mixture adaption (add.) System too rich	
P1143	17551	Load recognition Control limit exceeded 1)	- Check air mass meter => Page 24-137 .

1) If this fault occurs within three driving cycles (engine running at least 5 seconds) the engine control unit switches on the exhaust warning lamp in dash panel insert. Notes on exhaust warning lamp => Page [24-40](#).

Note:

add. = additive means that fault only has effect during idling

Fault code		Fault readout	Fault remedy
SAE	V.A.G		
P1149	17557	Lambda control Bank1 Implausible control value	- Check lambda probe learned values and lambda control => Page 24-83 .
P1171	17579	Angle sender 2 for throttle valve actuator -G188 Implausible signal 1) 3)	- Check angle sender for throttle valve actuator => Page 24-144
P1172	17580	Angle sender 2 for throttle valve actuator -G188 Signal too small 1)3)	
P1173	17581	Angle sender 2 for throttle valve actuator -G188 Signal too great 1) 3)	

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3) With this fault, engine control unit switches on EPC warning lamp in dash panel insert. Notes on EPC warning lamp =>Page [24-135](#).

Fault code		Fault readout	Fault remedy
SAE	V.A.G		
P1176	17584	Bank 1, lambda correction downstream of catalytic converter Control limit achieved1)	- Check lambda probe ageing of lambda probe upstream of catalytic converter =>Page 24-108
P1198	17606	Bank 1, probe 1, heating circuit Electrical fault	- Check lambda probe heating downstream of catalytic converter => Page 24-120
P1213	17621	Injector, cylinder 1 -N30 Short to positive 1)	- Check injectors =>Page 24-53
P1214	17622	Injector, cylinder 2 -N31 Short to positive 1)	
P1215	17623	Injector, cylinder 3 -N32 Short to positive 1)	
P1216	17624	Injector, cylinder 4 -N33 Short to positive 1)	

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Fault code		Fault readout	Fault remedy
SAE	V.A.G		
P1225	17633	Injector, cylinder 1 -N30 Short to earth 1)	- Check injectors =>Page 24-53
P1226	17634	Injector, cylinder 2 -N31 Short to earth 1)	
P1227	17635	Injector, cylinder 3 -N32 Short to earth 1)	
P1228	17636	Injector, cylinder 4 -N33 Short to earth 1)	

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Fault code		Fault readout	Fault remedy
SAE	V.A.G		
P1237	17645	Injector, cylinder 1 -N30 Open circuit 1)	- Check injectors =>Page 24-53
P1238	17646	Injector, cylinder 2 -N31 Open circuit 1)	
P1239	17647	Injector, cylinder 3 -N32 Open circuit 1)	
P1240	17648	Injector, cylinder 4 -N33 Open circuit 1)	
P1250	17658	Fuel level too low	- Follow-on fault =>Note

1) If this fault occurs within three driving cycles (engine running at least 5 seconds) the engine control unit switches on the exhaust warning lamp in dash panel insert. Notes on exhaust warning lamp => Page [24-40](#).

Note:

The fault "Fuel level too low" is stored only in conjunction with misfiring or faults concerning lambda control if too little fuel is or was in the tank. The fault is stored in the control unit as static fault and is not set as a sporadic fault even if the vehicle is refuelled in the meantime.