ADEC Error List

2006-11-16

sorted by No. and ZKP-No.

FSW-No:	2_1_1_1_11_0 / 2_2_33_1_1_0
Application:	Universal / All Applications
Generated:	2006-11-16

No.	ZKP-No.	Name	Description
3	2.0122.931	HI T-Fuel	Fuel temperature too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
4	2.0122.932	SS T-Fuel	Fuel temperature too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
5	2.0121.931	HI T-Charge Air	Charge air temperature too high (limit 1) ==> Check InterCooler (Alarm Configuration Parameter, for details see PR 2.8008.100)
6	2.0121.932	SS T-Charge Air	Charge air temperature too high (limit 2) ==> Check InterCooler (Alarm Configuration Parameter, for details see PR 2.8008.100)
9	2.0124.931	HI T-Coolant Intercooler	Coolant temperature of InterCooler too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
10	2.0124.932	SS T-Coolant Intercooler	Coolant temperature of InterCooler too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
15	2.0100.921	LO P-Lube Oil	Pressure of lube oil too low (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
16	2.0100.922	SS P-Lube Oil	Pressure of lube oil too low (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
19	2.0126.931	HI T-Exhaust A	Exhaust gas temperature (A-side) too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
20	2.0126.932	SS T-Exhaust A	Exhaust gas temperature (A-side) too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
21	2.0127.931	HI T-Exhaust B	Exhaust gas temperature (B-side) too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
22	2.0127.932	SS T-Exhaust B	Exhaust gas temperature (B-side) too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
23	2.0152.921	LO Coolant Level	Coolant level too low (limit 1) ==> Check coolant level in compensation container (Alarm Configuration Parameter, for details see PR 2.8008.100)
25	2.0154.931	HI P-Diff-Lube Oil	Differential pressure of oilfilter too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
26	2.0154.932	SS P-Diff-Lube Oil	Differential pressure of oilfilter too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
27	2.0151.931	HI Level Leakage Fuel	Level of leakage fuel too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
29	1.8004.206	HI ETC Idle Speed too High	Idle Speed of one of the switcheable chargers too high. (Alarm Configuration Parameter, for details see PR 2.8008.100)
30	2.2510.932	SS Engine Overspeed	Engine Overspeed (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
31	2.3011.931	HI ETC1 Overspeed	Speed of basic charger too high (limit 1).

No.	ZKP-No.	Name	Description
			(Alarm Configuration Parameter, for details see PR 2.8008.100)
32	2.3012.932	SS ETC1 Overspeed	Speed of basic charger too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
36	2.3013.931	HI ETC2 Overspeed	Speed of 1st switcheable charger too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
37	2.3013.912	SS ETC2 Overspeed	Speed of 1st switcheable charger too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
38	1.8004.205	AL ETC Speed Deviation	Speed deviation between basic turbo charger and one of the switcheable chargers. (Alarm Configuration Parameter, for details see PR 2.8008.100)
39	1.8004.204	AL ETC2 CutIn Failure	Switching of charger ETC2 failed. (Alarm Configuration Parameter, for details see PR 2.8008.100)
44	2.0153.921	LO Coolant Level Intercooler	Coolant level of intercooler too low (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
51	2.0125.931	HI T-Lube Oil	Lube oil temperature too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
52	2.0125.932	SS T-Lube Oil	Lube oil temperature to high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
57	2.0101.921	LO P-Coolant	Coolant pressure too low (limit 1) ==> check cooling cycle. (Alarm Configuration Parameter, for details see PR 2.8008.100)
58	2.0101.922	SS P-Coolant	Coolant pressure too low (limit 2) ==> Engine stop or limitation of the injection quantity ==> check cooling cycle (Alarm Configuration Parameter, for details see PR 2.8008.100)
59	2.0120.933	SS T-Coolant L3	Coolant temperature too high/ too low (limit 3). (Alarm Configuration Parameter, for details see PR 2.8008.100)
60	2.0120.934	SS T-Coolant L4	Coolant temperature too high/ too low (limit 4). (Alarm Configuration Parameter, for details see PR 2.8008.100)
63	2.0106.931	HI P-Crank Case	Crankcase pressure too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
64	2.0106.932	SS P-Crank Case	Crankcase pressure too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
65	2.0102.921	LO P-Fuel	Fuel supply pressure too low (limit 1) ==> Check filter, fuel on low-pressure side (Alarm Configuration Parameter, for details see PR 2.8008.100)
66	2.0102.922	SS P-Fuel	Fuel supply pressure too low (limit 2) ==> Check filter (low-pressure side) (Alarm Configuration Parameter, for details see PR 2.8008.100)
67	2.0120.931	HI T-Coolant	Coolant temperature too high (limit 1) ==> Check circulation of coolant (Alarm Configuration Parameter, for details see PR 2.8008.100)
68	2.0120.932	SS T-Coolant	Coolant temperature too high (limit 2) ==> Check circulation of coolant (Alarm Configuration Parameter, for details see PR 2.8008.100)
81	1.8004.046	AL Rail Leakage	Rail pressure gradient too low for Start or too high for Stop (==> High-pressure system leaks, air in the system) (Alarm Configuration Parameter, for details see PR 2.8008.100)
82	2.0104.931	HI P-Fuel (Common Rail)	Rail pressure > setpoint value => DBR reduction, shift of start of injection delayed

No.	ZKP-No.	Name	Description
			(==> interphase transformer sticks or connections of the interphase transformer) (Alarm Configuration Parameter, for details see PR 2.8008.100)
83	2.0104.921	LO P-Fuel (Common Rail)	Rail pressure < setpoint value => DBR reduction (==> interphase transformer defective or leakage in high-pressure system) (Alarm Configuration Parameter, for details see PR 2.8008.100)
85	2.0128.931	HI T-Umblasen	Umblasen' temperature too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
86	2.0128.932	SS T-Umblasen	Umblasen' temperature too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
89	2.2500.030	SS Engine Speed too Low	Engine is being stalled. The engine speed of the normally operating engine dropped below the limit from parameter 2.2500.027 Limit Engine Speed Low without any stop request. For safety reason the engine is stopped when this event occurs. (Alarm Configuration Parameter, for details see PR 2.8008.100)
90	2.1090.925	SS Idle Speed Not Reached	Idle speed not reached ==> Start abort ==> pay attention to other messages (Alarm Configuration Parameter, for details see PR 2.8008.100)
91	2.1090.924	SS Release Speed Not Reached	Acceleration speed not reached ==> Start abort ==> observe other messages (Alarm Configuration Parameter, for details see PR 2.8008.100)
92	2.1090.923	SS Starter Speed Not Reached	Starter speed not reached ==> Start abort ==> Starter does not turn or turns too slowly (Alarm Configuration Parameter, for details see PR 2.8008.100)
93	2.1090.922	SS T-Preheat	Preheat temperature too low (limit 2) ==> Coolant temperature for engine start too low ==> Bolting engine start (Alarm Configuration Parameter, for details see PR 2.8008.100)
94	2.1090.921	LO T-Preheat	Preheat temperature too low (limit 1) ==> Coolant temperature for engine start too low (Alarm Configuration Parameter, for details see PR 2.8008.100)
95	2.1090.920	AL Prelubrication Fault	Prelubrication fault. (Alarm Configuration Parameter, for details see PR 2.8008.100)
102	1.8004.624	AL Fuel Cons. Counter Defect	Fuel consumption counter defect. (Alarm Configuration Parameter, for details see PR 2.8008.100)
104	1.8004.623	AL Eng Hours Counter Defect	Engine Hours Counter defect. (Alarm Configuration Parameter, for details see PR 2.8008.100)
118	2.0140.921	LO ECU Power Supply Voltage	Power supply voltage too low (limit 1) ==> Check battery / generator (Alarm Configuration Parameter, for details see PR 2.8008.100)
119	2.0140.922	LOLO ECU Power Supply Voltage	Power supply voltage too low (limit 2) ==> Check battery / generator (Alarm Configuration Parameter, for details see PR 2.8008.100)
120	2.0140.931	HI ECU Power Supply Voltage	Power supply voltage too high (limit 1) ==> Check battery / generator (Alarm Configuration Parameter, for details see PR 2.8008.100)
121	2.0140.932	HIHI ECU Power Supply Voltage	Power supply voltage too high (limit 2) ==> Check battery / generator (Alarm Configuration Parameter, for details see PR 2.8008.100)
122	2.0132.921	HI T-ECU	Temperature of electronic too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
176	2.4000.004	AL LifeData not available	No (fitting) LifeData-Backup-System is available within a delaytime after ECU-Reset . ==> Backup-system has no LifeData-function or CAN bus interrupted to Backup-system.

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			(Alarm Configuration Parameter, for details see PR 2.8008.100)
177	2.4000.006	AL LifeData restore incomplete	If the ADEC has to restore the LifeData from the backup-system and at least one checksum is wrong after the upload or the upload is incomplete, then this failure is set. (Alarm Configuration Parameter, for details see PR 2.8008.100)
180	2.0500.680	AL CAN1 Node Lost	Connection to a node on CAN bus 1 lost. ==> Check devices connected on CAN (Alarm Configuration Parameter, for details see PR 2.8008.100)
181	2.0500.681	AL CAN2 Node Lost	Connection to a node on CAN bus 2 lost. ==> Check devices connected on CAN (Alarm Configuration Parameter, for details see PR 2.8008.100)
182	2.0500.682	AL CAN Wrong Parameters	Incorrect CAN parameter values have been entered. (Alarm Configuration Parameter, for details see PR 2.8008.100)
183	2.0500.683	AL CAN No PU-Data	A CAN mode is selected which the communication is initialized aided of the PU data module. However, required PU data module is not present or is not valid. ==> Check the devices connected by CAN (Alarm Configuration Parameter, for details see PR 2.8008.100)
184	2.0500.684	AL CAN PU-Data Flash Error	During attempt to copy a received PU data module to Flash module, a program error occurred. ==> Electronic service (Alarm Configuration Parameter, for details see PR 2.8008.100)
186	2.0500.686	AL CAN1 Bus Off	CAN Controller 1 is in "Bus Off" state => Automatic switchover to CAN2 ==>causes e.g. short circuit, massive interference or baud rate incompatibility (Alarm Configuration Parameter, for details see PR 2.8008.100)
187	2.0500.687	AL CAN1 Error Passive	CAN Controller 1 has signaled a warning. ==> causes e.g. lack of associated nodes, slight interference or short-term bus overload. (Alarm Configuration Parameter, for details see PR 2.8008.100)
188	2.0500.688	AL CAN2 Bus Off	CAN-Controller 2 is in "Bus Off" state => Automatic switchover to CAN 1 ==>causes e.g. short circuit, massive interference or baud rate incompatibility. (Alarm Configuration Parameter, for details see PR 2.8008.100)
189	2.0500.689	AL CAN2 Error Passive	CAN Controller 2 has signaled a warning. ==> causes e.g. lack of associated nodes, slight interference or short-term bus overload. (Alarm Configuration Parameter, for details see PR 2.8008.100)
190	2.0500.690	AL EMU Parameter Not Supported	EMU parameters are not supported. ==> Incompatibility (Alarm Configuration Parameter, for details see PR 2.8008.100)
201	1.8004.570	SD T-Coolant	Coolant temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B6), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
202	1.8004.572	SD T-Fuel	Fuel temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B33), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
203	1.8004.571	SD T-Charge Air	Charge air temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B9), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
205	1.8004.574	SD T-Coolant Intercooler	Intercooler coolant temperature-sensor defect. ==> short circuit or cable breakage

No.	ZKP-No.	Name	Description
			==> Check sensor and cable (B26), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
206	1.8004.576	SD T-Exhaust A	Exhaust gas temperature-sensor on A-side defect. ==> short circuit or cable breakage ==> Check sensor and cable (B4.21), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
207	1.8004.577	SD T-Exhaust B	Exhaust gas temperature-sensor on B-side defect. ==> short circuit or cable breakage ==> Check sensor and cable (B4.22), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
208	1.8004.566	SD P-Charge Air	Charge air pressure-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B10), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
211	1.8004.563	SD P-Lube Oil	Lube oil pressure-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B5), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
212	1.8004.564	SD P-Coolant	Collant pressure-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B16), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
213	1.8004.569	SD P-Coolant Intercooler	Intercooler coolant pressure-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B43), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
214	1.8004.568	SD P-CrankCase	Crankcase pressure-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B50), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
215	1.8004.567	SD P-HD	Rail pressure-sensor defect. ==> High-pressure controller emergency operation ==> short circuit or cable breakage ==> Check sensor and cable (B48), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
216	1.8004.575	SD T-Lube Oil	Lube oil temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B7), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
219	1.8004.573	SD T-Intake Air	Intake air temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B3), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
220	1.8004.584	SD Level Coolant Water	Sensor for coolant level defect. ==> short circuit or cable breakage ==> Check sensor and cable (F33), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
221	1.8004.585	SD P-Diff Lube Oil	Sensor for differential pressure of lube oil defect. ==> short circuit or cable breakage ==> Check sensor and cable (B5), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
222	1.8004.582	SD Level Leakage Fuel	Sensor for leakage level of fuel defect. ==> short circuit or cable breakage ==> Check sensor and cable (F46), if necessary replace it.

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			(Alarm Configuration Parameter, for details see PR 2.8008.100)
223	1.8004.583	SD Level Coolant Intercooler	Sensor for coolant level of intercooler defect. ==> short circuit or cable breakage ==> Check sensor and cable (F57), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
227	1.8004.620	SD P-Lube Oil before Filter	Pressure sensor for lube oil before filter defect. ==> short circuit or cable breakage ==> Check sensor and cable (B5.3), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
229	1.8004.562	AL Stop Camshaft Sensor Defect	Sensor of Camshaft defect and sensor of crankshaft defect before. ==> Engine stop ==> Check sensor and cable of B1, if necessary replace it. ==> After Engine restart curing of failure. (Alarm Configuration Parameter, for details see PR 2.8008.100)
230	1.8004.498	SD Crankshaft Speed	Sensor defect on crankshaft. ==> short circuit or cable breakage ==> Check sensor and cable (B13), if necessary replace it. After Engine restart follows curing of failure. (Alarm Configuration Parameter, for details see PR 2.8008.100)
231	1.8004.499	SD Camshaft Speed	Sensor defect on camshaft. ==> short circuit or cable breakage ==> Check sensor and cable (B1), if necessary replace it. After Engine restart follows curing of failure. (Alarm Configuration Parameter, for details see PR 2.8008.100)
232	1.3011.128	SD Charger 1 Speed	Speed-sensor of basic charger defect. ==> short circuit or cable breakage ==> Check sensor and cable (B44.1), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
233	1.3011.129	SD Charger 2 Speed	Speed-sensor of switching charger defect. ==> short circuit or cable breakage ==> Check sensor and cable (B44.2), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
240	1.8004.565	SD P-Fuel	Fuel pressure-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B34), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
241	1.8004.581	SD T-Umblasen	Temperature-sensor of recirculated charge air defect. ==> short circuit or cable breakage ==> Check sensor and cable (B49), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
242	1.8004.622	SD T-Coolant (R)	Redundant coolant temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
244	1.8004.621	SD P-Lube Oil (R)	Redundant pressure sensor for lube oil defect. ==> short circuit or cable breakage ==> Check sensor and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
245	2.8006.589	SD ECU Power Supply Voltage	Internal ECU error. ==> electronic defect (Alarm Configuration Parameter, for details see PR 2.8008.100)
266	2.8006.586	SD Speed Demand	Analog speed demand defect. ==> short circuit or cable breakage ==> Check setpoint tacho-generator and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
269	2.8006.588	SD Loadp.Analog filt	Filtered analog load pulse signal not available. ==> short circuit or cable breakage ==> Check cable, if necessary replace it.

No.	ZKP-No.	Name	Description
			(Alarm Configuration Parameter, for details see PR 2.8008.100)
270	2.8006.590	SD Frequency Input	Frequency input defect ==> short circuit or cable breakage (Alarm Configuration Parameter, for details see PR 2.8008.100)
301	1.8004.500	AL Timing Cylinder A1	Error in timing of injector cylinder A1: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
302	1.8004.501	AL Timing Cylinder A2	Error in timing of injector cylinder A2: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
303	1.8004.502	AL Timing Cylinder A3	Error in timing of injector cylinder A3: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
304	1.8004.503	AL Timing Cylinder A4	Error in timing of injector cylinder A4: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
305	1.8004.504	AL Timing Cylinder A5	Error in timing of injector cylinder A5: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
306	1.8004.505	AL Timing Cylinder A6	Error in timing of injector cylinder A6: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
307	1.8004.506	AL Timing Cylinder A7	Error in timing of injector cylinder A7: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
308	1.8004.507	AL Timing Cylinder A8	Error in timing of injector cylinder A8: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
309	1.8004.508	AL Timing Cylinder A9	Error in timing of injector cylinder A9: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
310	1.8004.509	AL Timing Cylinder A10	Error in timing of injector cylinder A10: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
311	1.8004.510	AL Timing Cylinder B1	Error in timing of injector cylinder B1: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
312	1.8004.511	AL Timing Cylinder B2	Error in timing of injector cylinder B2: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
313	1.8004.512	AL Timing Cylinder B3	Error in timing of injector cylinder B3: timing value too low / high.

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			==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
314	1.8004.513	AL Timing Cylinder B4	Error in timing of injector cylinder B4: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
315	1.8004.514	AL Timing Cylinder B5	Error in timing of injector cylinder B5: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
316	1.8004.515	AL Timing Cylinder B6	Error in timing of injector cylinder B6: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
317	1.8004.516	AL Timing Cylinder B7	Error in timing of injector cylinder B7: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
318	1.8004.517	AL Timing Cylinder B8	Error in timing of injector cylinder B8: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
319	1.8004.518	AL Timing Cylinder B9	Error in timing of injector cylinder B9: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
320	1.8004.519	AL Timing Cylinder B10	Error in timing of injector cylinder B10: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
321	1.8004.520	AL Wiring Cylinder A1	Short circuit in injector cable of cylinder A1. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
322	1.8004.521	AL Wiring Cylinder A2	Short circuit in injector cable of cylinder A2. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
323	1.8004.522	AL Wiring Cylinder A3	Short circuit in injector cable of cylinder A3. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
324	1.8004.523	AL Wiring Cylinder A4	Short circuit in injector cable of cylinder A4. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
325	1.8004.524	AL Wiring Cylinder A5	Short circuit in injector cable of cylinder A5. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector)

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			==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
326	1.8004.525	AL Wiring Cylinder A6	Short circuit in injector cable of cylinder A6. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
327	1.8004.526	AL Wiring Cylinder A7	Short circuit in injector cable of cylinder A7. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
328	1.8004.527	AL Wiring Cylinder A8	Short circuit in injector cable of cylinder A8. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
329	1.8004.528	AL Wiring Cylinder A9	Short circuit in injector cable of cylinder A9. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
330	1.8004.529	AL Wiring Cylinder A10	Short circuit in injector cable of cylinder A10. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
331	1.8004.530	AL Wiring Cylinder B1	Short circuit in injector cable of cylinder B1. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
332	1.8004.531	AL Wiring Cylinder B2	Short circuit in injector cable of cylinder B2. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
333	1.8004.532	AL Wiring Cylinder B3	Short circuit in injector cable of cylinder B3. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
334	1.8004.533	AL Wiring Cylinder B4	Short circuit in injector cable of cylinder B4. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
335	1.8004.534	AL Wiring Cylinder B5	Short circuit in injector cable of cylinder B5. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure

No.	ZKP-No.	Name	Description
			(Alarm Configuration Parameter, for details see PR 2.8008.100)
336	1.8004.535	AL Wiring Cylinder B6	Short circuit in injector cable of cylinder B6. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
337	1.8004.536	AL Wiring Cylinder B7	Short circuit in injector cable of cylinder B7. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
338	1.8004.537	AL Wiring Cylinder B8	Short circuit in injector cable of cylinder B8. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
339	1.8004.538	AL Wiring Cylinder B9	Short circuit in injector cable of cylinder B9. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
340	1.8004.539	AL Wiring Cylinder B10	Short circuit in injector cable of cylinder B10. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
341	1.8004.540	AL Open Load Cylinder A1	Open load in injector cable of cylinder A1 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
342	1.8004.541	AL Open Load Cylinder A2	Open load in injector cable of cylinder A2 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
343	1.8004.542	AL Open Load Cylinder A3	Open load in injector cable of cylinder A3 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
344	1.8004.543	AL Open Load Cylinder A4	Open load in injector cable of cylinder A4 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
345	1.8004.544	AL Open Load Cylinder A5	Open load in injector cable of cylinder A5 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
346	1.8004.545	AL Open Load Cylinder A6	Open load in injector cable of cylinder A6 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
347	1.8004.546	AL Open Load Cylinder A7	Open load in injector cable of cylinder A7 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure

No.	ZKP-No.	Name	Description
			(Alarm Configuration Parameter, for details see PR 2.8008.100)
348	1.8004.547	AL Open Load Cylinder A8	Open load in injector cable of cylinder A8 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
349	1.8004.548	AL Open Load Cylinder A9	Open load in injector cable of cylinder A9 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
350	1.8004.549	AL Open Load Cylinder A10	Open load in injector cable of cylinder A10 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
351	1.8004.550	AL Open Load Cylinder B1	Open load in injector cable of cylinder B1 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
352	1.8004.551	AL Open Load Cylinder B2	Open load in injector cable of cylinder B2 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
353	1.8004.552	AL Open Load Cylinder B3	Open load in injector cable of cylinder B3 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
354	1.8004.553	AL Open Load Cylinder B4	Open load in injector cable of cylinder B4 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
355	1.8004.554	AL Open Load Cylinder B5	Open load in injector cable of cylinder B5 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
356	1.8004.555	AL Open Load Cylinder B6	Open load in injector cable of cylinder B6 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
357	1.8004.556	AL Open Load Cylinder B7	Open load in injector cable of cylinder B7 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
358	1.8004.557	AL Open Load Cylinder B8	Open load in injector cable of cylinder B8 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
359	1.8004.558	AL Open Load Cylinder B9	Open load in injector cable of cylinder B9 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
360	1.8004.559	AL Open Load Cylinder B10	Open load in injector cable of cylinder B10 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
361	1.8004.496	AL Power Stage Low	Internal error of electronic (electronic defect possible) ==> Start ITS ==> if electronic o.k. continue to pay

No.	ZKP-No.	Name	Description
			attention to messages. If bit "1.1020.021" (Power Stage Failure: Stop Engine) set ==> Engine stop. (Alarm Configuration Parameter, for details see PR 2.8008.100)
362	1.8004.497	AL Power Stage High	Internal error of electronic (electronic defect possible) ==> Start ITS ==> if electronic o.k. continue to pay attention to messages. If bit "1.1020.021" (Power Stage Failure: Stop Engine) set ==> Engine stop. (Alarm Configuration Parameter, for details see PR 2.8008.100)
363	1.8004.560	AL Stop Power Stage	Internal error of electronic (electronic defect possible) ==> Start ITS ==> if electronic o.k. continue to pay attention to messages. If bit "1.1020.021" (Power Stage Failure: Stop Engine) set ==> Engine stop. (Alarm Configuration Parameter, for details see PR 2.8008.100)
365	1.8004.561	AL Stop MV-Wiring Ground	Cable line error ==> If bit "1.1020.021" (Power Stage Failure: Stop Engine) set ==> Engine stop ==> possible causes: 1. short circuit of injector line-plus to ground. 2. short circuit of injector line-minus to ground. ==> Check cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
371	1.8004.634	AL Wiring TO 1	Short circuit or open load on transistor output 1 (TO 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
372	1.8004.635	AL Wiring TO 2	Short circuit or open load on transistor output 2 (TO 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
373	1.8004.636	AL Wiring TO 3	Short circuit or open load on transistor output 3 (TO 3). (Alarm Configuration Parameter, for details see PR 2.8008.100)
374	1.8004.637	AL Wiring TO 4	Short circuit or open load on transistor output 4 (TO 4). (Alarm Configuration Parameter, for details see PR 2.8008.100)
381	2.8006.638	AL Wiring TOP 1	Short circuit or open load on transistor output plant 1 (TOP 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
382	2.8006.639	AL Wiring TOP 2	Short circuit or open load on transistor output plant 2 (TOP 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
383	2.8006.640	AL Wiring TOP 3	Short circuit or open load on transistor output plant 3 (TOP 3). (Alarm Configuration Parameter, for details see PR 2.8008.100)
384	2.8006.641	AL Wiring TOP 4	Short circuit or open load on transistor output plant 4 (TOP 4). (Alarm Configuration Parameter, for details see PR 2.8008.100)
390	1.1085.009	AL MCR exceeded	DBR/MCR Function: MCR (Maximum Continuous Rating) is exceeded. (Alarm Configuration Parameter, for details see PR 2.8008.100)
392	2.0129.931	HI T-Coolant (R)	Redundant coolant temperature too high (limit 1) ==> Check circulation of coolant (Alarm Configuration Parameter, for details see PR 2.8008.100)
393	2.0129.932	SS T-Coolant (R)	Redundant coolant temperature too high (limit 2) ==> Check circulation of coolant (Alarm Configuration Parameter, for details see PR 2.8008.100)
394	2.0112.921	LO P-Lube Oil (R)	Redundant pressure of lube oil too low (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)

No.	ZKP-No.	Name	Description
395	2.0112.922	SS P-Lube Oil (R)	Redundant pressure of lube oil too low (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
396	1.8004.626	TD T-Coolant	Maximum deviation of coolant temperature. (Alarm Configuration Parameter, for details see PR 2.8008.100)
397	1.8004.625	TD P-Lube Oil	Maximum deviation of lube oil pressure. (Alarm Configuration Parameter, for details see PR 2.8008.100)
400	2.8006.625	AL Open Load Digital Input 1	Open Load on digitil input 1. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
401	2.8006.626	AL Open Load Digital Input 2	Open Load on digitil input 2. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
402	2.8006.627	AL Open Load Digital Input 3	Open Load on digitil input 3. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
403	2.8006.628	AL Open Load Digital Input 4	Open Load on digitil input 4. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
404	2.8006.629	AL Open Load Digital Input 5	Open Load on digitil input 5. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
405	2.8006.630	AL Open Load Digital Input 6	Open Load on digitil input 6. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
406	2.8006.631	AL Open Load Digital Input 7	Open Load on digitil input 7. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
407	2.8006.632	AL Open Load Digital Input 8	Open Load on digitil input 8. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
408	2.8006.633	AL Open Load Emerg. Stop Input ESI	Open Load on input for emergency stop. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
410	2.0141.921	LO U-PDU	Power driver voltage (injectors) too low (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
411	2.0141.922	LOLO U-PDU	Power driver voltage (injectors) too low (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
412	2.0141.931	HI U-PDU	Power driver voltage (injectors) too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
413	2.0141.932	HIHI U-PDU	Power driver voltage (injectors) too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
414	2.0156.931	HI Level Water Fuel Prefilter	Water level of fuel prefilter too high (limit 1) ==> empty fuel prefilter (Alarm Configuration Parameter, for details see PR 2.8008.100)
415	2.0107.921	LO P-Coolant InterCooler	Coolant pressure of InterCooler too low (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
416	2.0107.922	SS P-Coolant InterCooler	Coolant pressure of InterCooler too low (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
417	1.8004.594	SD Level Water Fuel Prefilter	Water level-sensor of fuel prefilter defect. ==> short circuit or cable breakage ==> Check sensor and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)

No.	ZKP-No.	Name	Description
420	2.0160.921	AL L1 Aux 1	Input of Aux 1 injured limit 1. (Alarm Configuration Parameter, for details see PR 2.8008.100)
421	2.0160.922	AL L2 Aux1	Input of Aux 1 injured limit 2. (Alarm Configuration Parameter, for details see PR 2.8008.100)
428	2.0130.921	AL L1 T-Aux 1	Temperature input of Aux 1 injured limit 1. (Alarm Configuration Parameter, for details see PR 2.8008.100)
440	2.0110.921	AL L1 P-Aux 1	Pressure input of Aux 1 injured limit 1. (Alarm Configuration Parameter, for details see PR 2.8008.100)
442	2.0110.931	AL L2 P-Aux1	Pressure input of Aux 1 injured limit 2. (Alarm Configuration Parameter, for details see PR 2.8008.100)
444	1.8004.578	SD U-PDU	Sensor defect of Injector Power driver unit. ==> Internal error of ECU7. Change ECU7. (Alarm Configuration Parameter, for details see PR 2.8008.100)
445	1.8004.580	SD P-Ambient Air	Ambient air pressure-sensor defect. (Alarm Configuration Parameter, for details see PR 2.8008.100)
448	2.0103.931	HI P-Charge Air	Pressure of charge air too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
449	2.0103.932	SS P-Charge Air	Pressure of charge air too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
450	2.8006.592	SD Idle/End-Torque Input [%]	Input of Idle/End-Torque defect. ==> short circuit or cable breakage ==> Check transmitter and cable, if necessary replace it. After Engine restart follows curing of failure. (Alarm Configuration Parameter, for details see PR 2.8008.100)
454	2.7000.011	SS Power Reduction Active	Power Reduction is activated. (Alarm Configuration Parameter, for details see PR 2.8008.100)
455	2.8006.650	AL L1 Aux1 Plant	Input of Aux 1 (plant) injured limit 1. (Alarm Configuration Parameter, for details see PR 2.8008.100)
456	2.8006.651	AL L2 Aux1 Plant	Input of Aux 1 (plant) injured limit 2. (Alarm Configuration Parameter, for details see PR 2.8008.100)
460	2.8006.652	HI T-Exhaust EMU	Exhaust gas temperature of EMU too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
461	2.8006.653	LO T-Exhaust EMU	Exhaust gas temperature of EMU too low (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
462	2.8006.654	HI T-Coolant EMU	Coolant temperature of EMU injured limit 1. (Alarm Configuration Parameter, for details see PR 2.8008.100)
464	1.8004.589	SD P-AUX 1	Analog input for pressure Aux 1 defect. ==> short circuit or cable breakage ==> Check transmitter of pressure and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
467	2.0130.922	AL L2 T-Aux1	Temperature input of Aux 1 injured limit 2. (Alarm Configuration Parameter, for details see PR 2.8008.100)
468	1.8004.579	SD T-AUX 1	Analog input for Temperature Aux 1 defect. (Alarm Configuration Parameter, for details see PR 2.8008.100)
469	1.8004.590	SD AUX 1	Analog input for Aux 1 defect. ==> short circuit or cable breakage

No.	ZKP-No.	Name	Description
			==> Check transmitter and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
470	1.8004.587	SD T-ECU	ECU temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
471	1.8004.592	SD Coil Current	Coil Current sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
472	2.8006.593	AL Stop SD	Engine stop, because critical channel has sensor defect. (Alarm Configuration Parameter, for details see PR 2.8008.100)
473	1.8004.593	AL Wiring PWM_CM2	Open load or short circuit on channel PWM_CM2. (Alarm Configuration Parameter, for details see PR 2.8008.100)
474	2.8006.655	AL Wiring FO	Open load or short circuit on frequency output (FO) channel. (Alarm Configuration Parameter, for details see PR 2.8008.100)
475	1.8010.009	AL CR Trigger Engine Stop	Released in case of an engine stop in order to trigger the crash recorder. (Alarm Configuration Parameter, for details see PR 2.8008.100)
476	1.8010.007	AL Crash Rec. Init. Error	Initial error of crash recorder. (Alarm Configuration Parameter, for details see PR 2.8008.100)
478	2.8006.001	AL Comb. Alarm Yel (Plant)	Combined Alarm YELLOW (Plant). (Alarm Configuration Parameter, for details see PR 2.8008.100)
479	2.8006.002	AL Comb. Alarm Red (Plant)	Combined Alarm RED (Plant). (Alarm Configuration Parameter, for details see PR 2.8008.100)
480	2.0291.921	AL Ext. Engine Protection	External Engine Protection function active. (Alarm Configuration Parameter, for details see PR 2.8008.100)
500	1.4500.900	AL Wiring POM Starter 1	A wiring fault has been detected in the connection of starter 1 of CPM. This could be an open load, cable break or short circuit. ==> Check connection between POM and starter. (Alarm Configuration Parameter, for details see PR 2.8008.100)
501	1.4500.901	AL Wiring POM Starter 2	A wiring fault has been detected in the connection of starter 2 of CPM. This could be an open load, cable break or short circuit. ==> Check connection between POM and starter. (Alarm Configuration Parameter, for details see PR 2.8008.100)
502	1.4500.902	AL Open Load POM Alternator	An open load on POM's alternator output has been detected. ==> Check connection between POM and alternator. (Alarm Configuration Parameter, for details see PR 2.8008.100)
503	1.4500.903	AL Battery Not Charging	Battery is not being charged by alternator. ==> Check alternator and connection. (Alarm Configuration Parameter, for details see PR 2.8008.100)
504	1.4500.904	AL CAN POM Node Lost	POM is missing on CAN bus. ==> Check connection and POM. (Alarm Configuration Parameter, for details see PR 2.8008.100)

No.	ZKP-No.	Name	Description
505	1.4500.905	AL New POM Found	A new POM has been found connected to the ECU. (Alarm Configuration Parameter, for details see PR 2.8008.100)
506	1.4500.906	AL Low Starter Voltage	Battery voltage is too low for starting. ==> Check starter battery and cabling. (Alarm Configuration Parameter, for details see PR 2.8008.100)
507	1.4500.907	AL POM Error	A general POM error has been detected. ==> Replace POM. (Alarm Configuration Parameter, for details see PR 2.8008.100)
508	1.4500.908	AL Wrong POM-ID	POM sends a different identification number (ID) than expected. ==> Check POM harness. (Alarm Configuration Parameter, for details see PR 2.8008.100)
509	1.4500.909	AL Check POM Fuse	Reserved. (Alarm Configuration Parameter, for details see PR 2.8008.100)
510	2.7002.010	AL Override applied	Override applied. (Alarm Configuration Parameter, for details see PR 2.8008.100)
515	2.1090.926	AL Starter Not Engaged	Starter of CPM / POM could not be engaged. => New starting attempt. If the number of automatic starting attempts from PR 1.1090.134 Number of Starting Attempts has been executed, starting procedure is aborted. Check CPM, starter and cabling. (Alarm Configuration Parameter, for details see PR 2.8008.100)
543	2.0555.005	AL Multiple FDH Slaves	There is more than one device which is configured as Backup for FDH-Functionality. (Alarm Configuration Parameter, for details see PR 2.8008.100)
544	2.0555.003	AL Configuration Changed	Gets active in case of changing system configuration e. g. by changing ECU- or SAM-Device. Remains until undo procedure or data is transfered by a valid maintenance case. Is cancelled automatically. (Alarm Configuration Parameter, for details see PR 2.8008.100)
555	2.0555.001	AL Call MTU Field Service	Gets active in case of completing a maintenance-case which manipulates Engine-Parameters. Remains also after switching on-off ECU until a valid release code is entered via Display- and Button-Control of SAM-Device. Release Code is available via Internet by a special procedure. (Alarm Configuration Parameter, for details see PR 2.8008.100)

ZKP-No.	No.	Name	Description
1.1085.009	390	AL MCR exceeded	DBR/MCR Function: MCR (Maximum Continuous Rating) is exceeded. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.3011.128	232	SD Charger 1 Speed	Speed-sensor of basic charger defect. ==> short circuit or cable breakage ==> Check sensor and cable (B44.1), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.3011.129	233	SD Charger 2 Speed	Speed-sensor of switching charger defect. ==> short circuit or cable breakage ==> Check sensor and cable (B44.2), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.4500.900	500	AL Wiring POM Starter 1	A wiring fault has been detected in the connection of starter 1 of CPM. This could be an open load, cable break or short circuit. ==> Check connection between POM and starter. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.4500.901	501	AL Wiring POM Starter 2	A wiring fault has been detected in the connection of starter 2 of CPM. This could be an open load, cable break or short circuit. ==> Check connection between POM and starter. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.4500.902	502	AL Open Load POM Alternator	An open load on POM's alternator output has been detected. ==> Check connection between POM and alternator. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.4500.903	503	AL Battery Not Charging	Battery is not being charged by alternator. ==> Check alternator and connection. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.4500.904	504	AL CAN POM Node Lost	POM is missing on CAN bus. ==> Check connection and POM. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.4500.905	505	AL New POM Found	A new POM has been found connected to the ECU. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.4500.906	506	AL Low Starter Voltage	Battery voltage is too low for starting. ==> Check starter battery and cabling. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.4500.907	507	AL POM Error	A general POM error has been detected. ==> Replace POM. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.4500.908	508	AL Wrong POM-ID	POM sends a different identification number (ID) than expected. ==> Check POM harness. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.4500.909	509	AL Check POM Fuse	Reserved. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.046	81	AL Rail Leakage	Rail pressure gradient too low for Start or too high for Stop (==> High-pressure system leaks, air in the system)

ZKP-No.	No.	Name	Description
			(Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.204	39	AL ETC2 CutIn Failure	Switching of charger ETC2 failed. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.205	38	AL ETC Speed Deviation	Speed deviation between basic turbo charger and one of the switcheable chargers. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.206	29	HI ETC Idle Speed too High	Idle Speed of one of the switcheable chargers too high. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.496	361	AL Power Stage Low	Internal error of electronic (electronic defect possible) ==> Start ITS ==> if electronic o.k. continue to pay attention to messages. If bit "1.1020.021" (Power Stage Failure: Stop Engine) set ==> Engine stop. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.497	362	AL Power Stage High	Internal error of electronic (electronic defect possible) ==> Start ITS ==> if electronic o.k. continue to pay attention to messages. If bit "1.1020.021" (Power Stage Failure: Stop Engine) set ==> Engine stop. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.498	230	SD Crankshaft Speed	Sensor defect on crankshaft. ==> short circuit or cable breakage ==> Check sensor and cable (B13), if necessary replace it. After Engine restart follows curing of failure. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.499	231	SD Camshaft Speed	Sensor defect on camshaft. ==> short circuit or cable breakage ==> Check sensor and cable (B1), if necessary replace it. After Engine restart follows curing of failure. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.500	301	AL Timing Cylinder A1	Error in timing of injector cylinder A1: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.501	302	AL Timing Cylinder A2	Error in timing of injector cylinder A2: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.502	303	AL Timing Cylinder A3	Error in timing of injector cylinder A3: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.503	304	AL Timing Cylinder A4	Error in timing of injector cylinder A4: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.504	305	AL Timing Cylinder A5	Error in timing of injector cylinder A5: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.505	306	AL Timing Cylinder A6	Error in timing of injector cylinder A6: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.506	307	AL Timing Cylinder A7	Error in timing of injector cylinder A7: timing value too low / high.

ZKP-No.	No.	Name	Description
			==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.507	308	AL Timing Cylinder A8	Error in timing of injector cylinder A8: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.508	309	AL Timing Cylinder A9	Error in timing of injector cylinder A9: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.509	310	AL Timing Cylinder A10	Error in timing of injector cylinder A10: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.510	311	AL Timing Cylinder B1	Error in timing of injector cylinder B1: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.511	312	AL Timing Cylinder B2	Error in timing of injector cylinder B2: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.512	313	AL Timing Cylinder B3	Error in timing of injector cylinder B3: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.513	314	AL Timing Cylinder B4	Error in timing of injector cylinder B4: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.514	315	AL Timing Cylinder B5	Error in timing of injector cylinder B5: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.515	316	AL Timing Cylinder B6	Error in timing of injector cylinder B6: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.516	317	AL Timing Cylinder B7	Error in timing of injector cylinder B7: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.517	318	AL Timing Cylinder B8	Error in timing of injector cylinder B8: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.518	319	AL Timing Cylinder B9	Error in timing of injector cylinder B9: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.519	320	AL Timing Cylinder B10	Error in timing of injector cylinder B10: timing value too low / high. ==> if very often replace solenoid (Alarm Configuration Parameter, for details see PR 2.8008.100)

ZKP-No.	No.	Name	Description
1.8004.520	321	AL Wiring Cylinder A1	Short circuit in injector cable of cylinder A1. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.521	322	AL Wiring Cylinder A2	Short circuit in injector cable of cylinder A2. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.522	323	AL Wiring Cylinder A3	Short circuit in injector cable of cylinder A3. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.523	324	AL Wiring Cylinder A4	Short circuit in injector cable of cylinder A4. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.524	325	AL Wiring Cylinder A5	Short circuit in injector cable of cylinder A5. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.525	326	AL Wiring Cylinder A6	Short circuit in injector cable of cylinder A6. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.526	327	AL Wiring Cylinder A7	Short circuit in injector cable of cylinder A7. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.527	328	AL Wiring Cylinder A8	Short circuit in injector cable of cylinder A8. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.528	329	AL Wiring Cylinder A9	Short circuit in injector cable of cylinder A9. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.529	330	AL Wiring Cylinder A10	Short circuit in injector cable of cylinder A10. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.530	331	AL Wiring Cylinder B1	Short circuit in injector cable of cylinder B1. ==> interrupted ignition

ZKP-No.	No.	Name	Description
			==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.531	332	AL Wiring Cylinder B2	Short circuit in injector cable of cylinder B2. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.532	333	AL Wiring Cylinder B3	Short circuit in injector cable of cylinder B3. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.533	334	AL Wiring Cylinder B4	Short circuit in injector cable of cylinder B4. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.534	335	AL Wiring Cylinder B5	Short circuit in injector cable of cylinder B5. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.535	336	AL Wiring Cylinder B6	Short circuit in injector cable of cylinder B6. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.536	337	AL Wiring Cylinder B7	Short circuit in injector cable of cylinder B7. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.537	338	AL Wiring Cylinder B8	Short circuit in injector cable of cylinder B8. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.538	339	AL Wiring Cylinder B9	Short circuit in injector cable of cylinder B9. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.539	340	AL Wiring Cylinder B10	Short circuit in injector cable of cylinder B10. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.540	341	AL Open Load Cylinder A1	Open load in injector cable of cylinder A1 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure

ZKP-No.	No.	Name	Description
			(Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.541	342	AL Open Load Cylinder A2	Open load in injector cable of cylinder A2 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.542	343	AL Open Load Cylinder A3	Open load in injector cable of cylinder A3 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.543	344	AL Open Load Cylinder A4	Open load in injector cable of cylinder A4 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.544	345	AL Open Load Cylinder A5	Open load in injector cable of cylinder A5 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.545	346	AL Open Load Cylinder A6	Open load in injector cable of cylinder A6 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.546	347	AL Open Load Cylinder A7	Open load in injector cable of cylinder A7 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.547	348	AL Open Load Cylinder A8	Open load in injector cable of cylinder A8 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.548	349	AL Open Load Cylinder A9	Open load in injector cable of cylinder A9 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.549	350	AL Open Load Cylinder A10	Open load in injector cable of cylinder A10 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.550	351	AL Open Load Cylinder B1	Open load in injector cable of cylinder B1 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.551	352	AL Open Load Cylinder B2	Open load in injector cable of cylinder B2 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.552	353	AL Open Load Cylinder B3	Open load in injector cable of cylinder B3 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.553	354	AL Open Load Cylinder B4	Open load in injector cable of cylinder B4 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.554	355	AL Open Load Cylinder B5	Open load in injector cable of cylinder B5 ==> Interrupted ignition ==> Check cable and solenoid if open load

ZKP-No.	No.	Name	Description
			(e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.555	356	AL Open Load Cylinder B6	Open load in injector cable of cylinder B6 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.556	357	AL Open Load Cylinder B7	Open load in injector cable of cylinder B7 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.557	358	AL Open Load Cylinder B8	Open load in injector cable of cylinder B8 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.558	359	AL Open Load Cylinder B9	Open load in injector cable of cylinder B9 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.559	360	AL Open Load Cylinder B10	Open load in injector cable of cylinder B10 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.560	363	AL Stop Power Stage	Internal error of electronic (electronic defect possible) ==> Start ITS ==> if electronic o.k. continue to pay attention to messages. If bit "1.1020.021" (Power Stage Failure: Stop Engine) set ==> Engine stop. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.561	365	AL Stop MV-Wiring Ground	Cable line error ==> If bit "1.1020.021" (Power Stage Failure: Stop Engine) set ==> Engine stop ==> possible causes: 1. short circuit of injector line-plus to ground. 2. short circuit of injector line-minus to ground. ==> Check cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.562	229	AL Stop Camshaft Sensor Defect	Sensor of Camshaft defect and sensor of crankshaft defect before. ==> Engine stop ==> Check sensor and cable of B1, if necessary replace it. ==> After Engine restart curing of failure. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.563	211	SD P-Lube Oil	Lube oil pressure-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B5), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.564	212	SD P-Coolant	Collant pressure-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B16), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.565	240	SD P-Fuel	Fuel pressure-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B34), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.566	208	SD P-Charge Air	Charge air pressure-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B10), if necessary replace it.

ZKP-No.	No.	Name	Description
			(Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.567	215	SD P-HD	Rail pressure-sensor defect. ==> High-pressure controller emergency operation ==> short circuit or cable breakage ==> Check sensor and cable (B48), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.568	214	SD P-CrankCase	Crankcase pressure-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B50), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.569	213	SD P-Coolant Intercooler	Intercooler coolant pressure-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B43), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.570	201	SD T-Coolant	Coolant temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B6), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.571	203	SD T-Charge Air	Charge air temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B9), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.572	202	SD T-Fuel	Fuel temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B33), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.573	219	SD T-Intake Air	Intake air temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B3), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.574	205	SD T-Coolant Intercooler	Intercooler coolant temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B26), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.575	216	SD T-Lube Oil	Lube oil temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B7), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.576	206	SD T-Exhaust A	Exhaust gas temperature-sensor on A-side defect. ==> short circuit or cable breakage ==> Check sensor and cable (B4.21), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.577	207	SD T-Exhaust B	Exhaust gas temperature-sensor on B-side defect. ==> short circuit or cable breakage ==> Check sensor and cable (B4.22), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.578	444	SD U-PDU	Sensor defect of Injector Power driver unit. ==> Internal error of ECU7. Change ECU7. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.579	468	SD T-AUX 1	Analog input for Temperature Aux 1 defect. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.580	445	SD P-Ambient Air	Ambient air pressure-sensor defect. (Alarm Configuration Parameter, for details see PR 2.8008.100)

ZKP-No.	No.	Name	Description
1.8004.581	241	SD T-Umblasen	Temperature-sensor of recirculated charge air defect. ==> short circuit or cable breakage ==> Check sensor and cable (B49), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.582	222	SD Level Leakage Fuel	Sensor for leakage level of fuel defect. ==> short circuit or cable breakage ==> Check sensor and cable (F46), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.583	223	SD Level Coolant Intercooler	Sensor for coolant level of intercooler defect. ==> short circuit or cable breakage ==> Check sensor and cable (F57), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.584	220	SD Level Coolant Water	Sensor for coolant level defect. ==> short circuit or cable breakage ==> Check sensor and cable (F33), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.585	221	SD P-Diff Lube Oil	Sensor for differential pressure of lube oil defect. ==> short circuit or cable breakage ==> Check sensor and cable (B5), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.587	470	SD T-ECU	ECU temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.589	464	SD P-AUX 1	Analog input for pressure Aux 1 defect. ==> short circuit or cable breakage ==> Check transmitter of pressure and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.590	469	SD AUX 1	Analog input for Aux 1 defect. ==> short circuit or cable breakage ==> Check transmitter and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.592	471	SD Coil Current	Coil Current sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.593	473	AL Wiring PWM_CM2	Open load or short circuit on channel PWM_CM2. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.594	417	SD Level Water Fuel Prefilter	Water level-sensor of fuel prefilter defect. ==> short circuit or cable breakage ==> Check sensor and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.620	227	SD P-Lube Oil before Filter	Pressure sensor for lube oil before filter defect. ==> short circuit or cable breakage ==> Check sensor and cable (B5.3), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.621	244	SD P-Lube Oil (R)	Redundant pressure sensor for lube oil defect. ==> short circuit or cable breakage ==> Check sensor and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.622	242	SD T-Coolant (R)	Redundant coolant temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)

ZKP-No.	No.	Name	Description
1.8004.623	104	AL Eng Hours Counter Defect	Engine Hours Counter defect. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.624	102	AL Fuel Cons. Counter Defect	Fuel consumption counter defect. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.625	397	TD P-Lube Oil	Maximum deviation of lube oil pressure. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.626	396	TD T-Coolant	Maximum deviation of coolant temperature. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.634	371	AL Wiring TO 1	Short circuit or open load on transistor output 1 (TO 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.635	372	AL Wiring TO 2	Short circuit or open load on transistor output 2 (TO 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.636	373	AL Wiring TO 3	Short circuit or open load on transistor output 3 (TO 3). (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8004.637	374	AL Wiring TO 4	Short circuit or open load on transistor output 4 (TO 4). (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8010.007	476	AL Crash Rec. Init. Error	Initial error of crash recorder. (Alarm Configuration Parameter, for details see PR 2.8008.100)
1.8010.009	475	AL CR Trigger Engine Stop	Released in case of an engine stop in order to trigger the crash recorder. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0100.921	15	LO P-Lube Oil	Pressure of lube oil too low (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0100.922	16	SS P-Lube Oil	Pressure of lube oil too low (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0101.921	57	LO P-Coolant	Coolant pressure too low (limit 1) ==> check cooling cycle. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0101.922	58	SS P-Coolant	Coolant pressure too low (limit 2) ==> Engine stop or limitation of the injection quantity ==> check cooling cycle (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0102.921	65	LO P-Fuel	Fuel supply pressure too low (limit 1) ==> Check filter, fuel on low-pressure side (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0102.922	66	SS P-Fuel	Fuel supply pressure too low (limit 2) ==> Check filter (low-pressure side) (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0103.931	448	HI P-Charge Air	Pressure of charge air too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0103.932	449	SS P-Charge Air	Pressure of charge air too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0104.921	83	LO P-Fuel (Common Rail)	Rail pressure < setpoint value => DBR reduction (==> interphase transformer defective or leakage in high-pressure system) (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0104.931	82	HI P-Fuel (Common Rail)	Rail pressure > setpoint value => DBR reduction, shift of start of injection delayed (==> interphase transformer sticks or connections of the interphase transformer)

ZKP-No.	No.	Name	Description
			(Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0106.931	63	HI P-Crank Case	Crankcase pressure too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0106.932	64	SS P-Crank Case	Crankcase pressure too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0107.921	415	LO P-Coolant InterCooler	Coolant pressure of InterCooler too low (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0107.922	416	SS P-Coolant InterCooler	Coolant pressure of InterCooler too low (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0110.921	440	AL L1 P-Aux 1	Pressure input of Aux 1 injured limit 1. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0110.931	442	AL L2 P-Aux1	Pressure input of Aux 1 injured limit 2. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0112.921	394	LO P-Lube Oil (R)	Redundant pressure of lube oil too low (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0112.922	395	SS P-Lube Oil (R)	Redundant pressure of lube oil too low (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0120.931	67	HI T-Coolant	Coolant temperature too high (limit 1) ==> Check circulation of coolant (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0120.932	68	SS T-Coolant	Coolant temperature too high (limit 2) ==> Check circulation of coolant (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0120.933	59	SS T-Coolant L3	Coolant temperature too high/ too low (limit 3). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0120.934	60	SS T-Coolant L4	Coolant temperature too high/ too low (limit 4). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0121.931	5	HI T-Charge Air	Charge air temperature too high (limit 1) ==> Check InterCooler (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0121.932	6	SS T-Charge Air	Charge air temperature too high (limit 2) ==> Check InterCooler (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0122.931	3	HI T-Fuel	Fuel temperature too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0122.932	4	SS T-Fuel	Fuel temperature too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0124.931	9	HI T-Coolant Intercooler	Coolant temperature of InterCooler too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0124.932	10	SS T-Coolant Intercooler	Coolant temperature of InterCooler too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0125.931	51	HI T-Lube Oil	Lube oil temperature too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0125.932	52	SS T-Lube Oil	Lube oil temperature to high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)

ZKP-No.	No.	Name	Description
2.0126.931	19	HI T-Exhaust A	Exhaust gas temperature (A-side) too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0126.932	20	SS T-Exhaust A	Exhaust gas temperature (A-side) too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0127.931	21	HI T-Exhaust B	Exhaust gas temperature (B-side) too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0127.932	22	SS T-Exhaust B	Exhaust gas temperature (B-side) too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0128.931	85	HI T-Umblasen	Umblasen' temperature too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0128.932	86	SS T-Umblasen	Umblasen' temperature too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0129.931	392	HI T-Coolant (R)	Redundant coolant temperature too high (limit 1) ==> Check circulation of coolant (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0129.932	393	SS T-Coolant (R)	Redundant coolant temperature too high (limit 2) ==> Check circulation of coolant (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0130.921	428	AL L1 T-Aux 1	Temperature input of Aux 1 injured limit 1. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0130.922	467	AL L2 T-Aux1	Temperature input of Aux 1 injured limit 2. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0132.921	122	HI T-ECU	Temperature of electronic too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0140.921	118	LO ECU Power Supply Voltage	Power supply voltage too low (limit 1) ==> Check battery / generator (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0140.922	119	LOLO ECU Power Supply Voltage	Power supply voltage too low (limit 2) ==> Check battery / generator (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0140.931	120	HI ECU Power Supply Voltage	Power supply voltage too high (limit 1) ==> Check battery / generator (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0140.932	121	HIHI ECU Power Supply Voltage	Power supply voltage too high (limit 2) ==> Check battery / generator (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0141.921	410	LO U-PDU	Power driver voltage (injectors) too low (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0141.922	411	LOLO U-PDU	Power driver voltage (injectors) too low (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0141.931	412	HI U-PDU	Power driver voltage (injectors) too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0141.932	413	HIHI U-PDU	Power driver voltage (injectors) too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0151.931	27	HI Level Leakage Fuel	Level of leakage fuel too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0152.921	23	LO Coolant Level	Coolant level too low (limit 1) ==> Check coolant level in compensation container

ZKP-No.	No.	Name	Description
			(Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0153.921	44	LO Coolant Level Intercooler	Coolant level of intercooler too low (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0154.931	25	HI P-Diff-Lube Oil	Differential pressure of oilfilter too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0154.932	26	SS P-Diff-Lube Oil	Differential pressure of oilfilter too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0156.931	414	HI Level Water Fuel Prefilter	Water level of fuel prefilter too high (limit 1) ==> empty fuel prefilter (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0160.921	420	AL L1 Aux 1	Input of Aux 1 injured limit 1. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0160.922	421	AL L2 Aux1	Input of Aux 1 injured limit 2. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0291.921	480	AL Ext. Engine Protection	External Engine Protection function active. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0500.680	180	AL CAN1 Node Lost	Connection to a node on CAN bus 1 lost. ==> Check devices connected on CAN (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0500.681	181	AL CAN2 Node Lost	Connection to a node on CAN bus 2 lost. ==> Check devices connected on CAN (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0500.682	182	AL CAN Wrong Parameters	Incorrect CAN parameter values have been entered. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0500.683	183	AL CAN No PU-Data	A CAN mode is selected which the communication is initialized aided of the PU data module. However, required PU data module is not present or is not valid. ==> Check the devices connected by CAN (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0500.684	184	AL CAN PU-Data Flash Error	During attempt to copy a received PU data module to Flash module, a program error occurred. ==> Electronic service (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0500.686	186	AL CAN1 Bus Off	CAN Controller 1 is in "Bus Off" state => Automatic switchover to CAN2 ==>causes e.g. short circuit, massive interference or baud rate incompatibility (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0500.687	187	AL CAN1 Error Passive	CAN Controller 1 has signaled a warning. ==> causes e.g. lack of associated nodes, slight interference or short-term bus overload. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0500.688	188	AL CAN2 Bus Off	CAN-Controller 2 is in "Bus Off" state => Automatic switchover to CAN 1 ==>causes e.g. short circuit, massive interference or baud rate incompatibility. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0500.689	189	AL CAN2 Error Passive	CAN Controller 2 has signaled a warning. ==> causes e.g. lack of associated nodes, slight interference or short-term bus overload. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0500.690	190	AL EMU Parameter Not	EMU parameters are not supported. ==> Incompatibility

ZKP-No.	No.	Name	Description
		Supported	(Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0555.001	555	AL Call MTU Field Service	Gets active in case of completing a maintenance-case which manipulates Engine-Parameters. Remains also after switching on-off ECU until a valid release code is entered via Display- and Button-Control of SAM-Device. Release Code is available via Internet by a special procedure. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0555.003	544	AL Configuration Changed	Gets active in case of changing system configuration e. g. by changing ECU- or SAM-Device. Remains until undo procedure or data is transfered by a valid maintenance case. Is cancelled automatically. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.0555.005	543	AL Multiple FDH Slaves	There is more than one device which is configured as Backup for FDH-Functionality. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.1090.920	95	AL Prelubrication Fault	Prelubrication fault. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.1090.921	94	LO T-Preheat	Preheat temperature too low (limit 1) ==> Coolant temperature for engine start too low (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.1090.922	93	SS T-Preheat	Preheat temperature too low (limit 2) ==> Coolant temperature for engine start too low ==> Bolting engine start (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.1090.923	92	SS Starter Speed Not Reached	Starter speed not reached ==> Start abort ==> Starter does not turn or turns too slowly (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.1090.924	91	SS Release Speed Not Reached	Acceleration speed not reached ==> Start abort ==> observe other messages (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.1090.925	90	SS Idle Speed Not Reached	Idle speed not reached ==> Start abort ==> pay attention to other messages (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.1090.926	515	AL Starter Not Engaged	Starter of CPM / POM could not be engaged. => New starting attempt. If the number of automatic starting attempts from PR 1.1090.134 Number of Starting Attempts has been executed, starting procedure is aborted. Check CPM, starter and cabling. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.2500.030	89	SS Engine Speed too Low	Engine is being stalled. The engine speed of the normally operating engine dropped below the limit from parameter 2.2500.027 Limit Engine Speed Low without any stop request. For safety reason the engine is stopped when this event occurs. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.2510.932	30	SS Engine Overspeed	Engine Overspeed (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.3011.931	31	HI ETC1 Overspeed	Speed of basic charger too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.3012.932	32	SS ETC1 Overspeed	Speed of basic charger too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.3013.912	37	SS ETC2 Overspeed	Speed of 1st switcheable charger too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.3013.931	36	HI ETC2 Overspeed	Speed of 1st switcheable charger too high (limit 1).

ZKP-No.	No.	Name	Description
			(Alarm Configuration Parameter, for details see PR 2.8008.100)
2.4000.004	176	AL LifeData not available	No (fitting) LifeData-Backup-System is available within a delaytime after ECU-Reset . ==> Backup-system has no LifeData-function or CAN bus interrupted to Backup-system. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.4000.006	177	AL LifeData restore incomplete	If the ADEC has to restore the LifeData from the backup-system and at least one checksum is wrong after the upload or the upload is incomplete, then this failure is set. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.7000.011	454	SS Power Reduction Active	Power Reduction is activated. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.7002.010	510	AL Override applied	Override applied. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.001	478	AL Comb. Alarm Yel (Plant)	Combined Alarm YELLOW (Plant). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.002	479	AL Comb. Alarm Red (Plant)	Combined Alarm RED (Plant). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.586	266	SD Speed Demand	Analog speed demand defect. ==> short circuit or cable breakage ==> Check setpoint tacho-generator and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.588	269	SD Loadp.Analog filt	Filtered analog load pulse signal not available. ==> short circuit or cable breakage ==> Check cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.589	245	SD ECU Power Supply Voltage	Internal ECU error. ==> electronic defect (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.590	270	SD Frequency Input	Frequency input defect ==> short circuit or cable breakage (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.592	450	SD Idle/End-Torque Input [%]	Input of Idle/End-Torque defect. ==> short circuit or cable breakage ==> Check transmitter and cable, if necessary replace it. After Engine restart follows curing of failure. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.593	472	AL Stop SD	Engine stop, because critical channel has sensor defect. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.625	400	AL Open Load Digital Input 1	Open Load on digitil input 1. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.626	401	AL Open Load Digital Input 2	Open Load on digitil input 2. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.627	402	AL Open Load Digital Input 3	Open Load on digitil input 3. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.628	403	AL Open Load Digital Input 4	Open Load on digitil input 4. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.629	404	AL Open Load Digital Input 5	Open Load on digitil input 5. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.630	405	AL Open Load Digital Input 6	Open Load on digitil input 6. ==> cable breakage or no resistance above switch

ZKP-No.	No.	Name	Description
			(Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.631	406	AL Open Load Digital Input 7	Open Load on digitil input 7. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.632	407	AL Open Load Digital Input 8	Open Load on digitil input 8. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.633	408	AL Open Load Emerg. Stop Input ESI	Open Load on input for emergency stop. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.638	381	AL Wiring TOP 1	Short circuit or open load on transistor output plant 1 (TOP 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.639	382	AL Wiring TOP 2	Short circuit or open load on transistor output plant 2 (TOP 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.640	383	AL Wiring TOP 3	Short circuit or open load on transistor output plant 3 (TOP 3). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.641	384	AL Wiring TOP 4	Short circuit or open load on transistor output plant 4 (TOP 4). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.650	455	AL L1 Aux1 Plant	Input of Aux 1 (plant) injured limit 1. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.651	456	AL L2 Aux1 Plant	Input of Aux 1 (plant) injured limit 2. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.652	460	HI T-Exhaust EMU	Exhaust gas temperature of EMU too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.653	461	LO T-Exhaust EMU	Exhaust gas temperature of EMU too low (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.654	462	HI T-Coolant EMU	Coolant temperature of EMU injured limit 1. (Alarm Configuration Parameter, for details see PR 2.8008.100)
2.8006.655	474	AL Wiring FO	Open load or short circuit on frequency output (FO) channel. (Alarm Configuration Parameter, for details see PR 2.8008.100)