

Product Information 2009-003

ADM2 fault codes for diagnostic version 204

This product information contains the fault codes for the ADM2 operating manual for diagnostic version 204.

New: faults from the PLD-MR sent via ADM on J1939 are also listed here.

Remark to fault SPN 609 FMI 2:

This is generated, if the ADM2 receives a fault from the PLD-MR which it cannot dissolve in its assignment table.



Control Unit - Fault Code Table
Diagnosis Version 204

1. Fault codes

1.1. Fault codes diagnosis version 204

The background color is used to indicate the newly supported fault codes since ADM operating manual 203.

The background color indicates the deleted fault codes since ADM operating manual 203.

The background color indicates PLD fault codes which are received from the PLD control unit and are broadcasted by the ADM over J1939.

ADM2 fault code (J1939) SPN/FMI	ADM2 / PLD fault code (K-line)	Fault location	Fault description	Remedial action	Pin
45/3	10003	Decompression Valve MBR_KD	Open Circuit	- Check wiring - Check solenoid valve	15/10
45/4	10004	Decompression Valve MBR_KD	Shorted to Ground	- Check wiring - Check solenoid valve	15/10
84/3	10103	Vehicle Speed Signal C3	Open Circuit	- Check wiring - Check parameter 08/01	15/03
84/4	10104	Vehicle Speed Signal C3	shorted to ground	- Check wiring	15/03
84/14	10114	Vehicle Speed Signal C3	Value Not Plausible	- Check parameter 08/01	15/03
91/0	10200	Analog Accelerator Pedal	Accelerator Pedal Not Adjusted	- Restart accelerator pedal adjustment routine - Check wiring - Limit value idle operation position: 5,0 V - Limit value kickdown position: 4,9 V	21/11
91/2	10202	Analog Accelerator Pedal	Voltage Not Plausible	- Pedal unit exchange, if defective - Check wiring - Limit value idle operation position: 5,0 V - Limit value kickdown position: 4,9 V	21/11
91/3	10203	Analog Accelerator Pedal	Voltage too High or Shorted to Battery Voltage	- Pedal unit exchange, if defective - check wiring - Limit value idle operation position: 5,0 V - Limit value kickdown position: 4,9 V	21/11
91/4	10204	Analog Accelerator Pedal AFPS	Voltage too Low or Shorted to Ground	- Pedal unit exchange, if defective - Check wiring - Limit value idle operation position: 5,0 V - Limit value kickdown position: 4,9 V	21/11
94/0	11715	Fuel Pressure Circuit	Circuit High Input		PLD-MR
94/1	11716	Fuel Pressure Circuit	Circuit Low Input		PLD-MR
94/2	11717	Fuel Pressure Circuit	Circuit Range		PLD-MR
94/3	13015	Fuel Pressure Circuit	Open Circuit		PLD-MR
94/4	13016	Fuel Pressure Circuit	Shorted to Ground		PLD-MR
94/14	11917	Fuel Pressure Circuit	Pressure Too High/ Too Low		PLD-MR
98/0	10400	Engine Oil Level	Oil Level too High	- Oil discharge with to strong overstocking. - Remark: This problem can occur also if in PLD-MR the false type of oil pan were programmed.	PLD-MR
98/1	10401	Engine Oil Level	Low Oil Level	- Refill oil	PLD-MR
98/2	02517 02026	Engine Oil Level	Data Erratic, Oil Level Too High or Too Low		PLD-MR
98/3	02516	Engine Oil Level	Voltage Below		PLD-MR
98/4	02515	Engine Oil Level	Voltage Above		PLD-MR
98/5	02509	Engine Oil Level	Open Circuit		PLD-MR

ADM2 fault code (J1939) SPN/FMI	ADM2 / PLD fault code (K-line)	Fault location	Fault description	Remedial action	Pin
98/14	10414	Engine Oil Level	Oil Level too Low	- Refill oil - Remark: This problem can occur also if in PLD-MR the false type of oil pan were programmed.	PLD-MR
100/1	10501	Engine Oil Pressure Sensor	Low Oil Pressure	- Check oil pump and oil circuit	PLD-MR
100/2	11617	Engine Oil Pressure Sensor/Switch	Data Erratic		PLD-MR
100/3	11615	Engine Oil Pressure Sensor/Switch	High Voltage		PLD-MR
100/4	11616	Engine Oil Pressure Sensor/Switch	Low Voltage		PLD-MR
100/14	10514	Engine Oil Pressure Sensor	Oil Pressure too Low	- Check oil pump and oil circuit.	PLD-MR
102/0	11820	Turbo Charger/ Supercharger	Overboost Condition		PLD-MR
102/1	11818	Turbo Charger/ Supercharger	Boost System Performance		PLD-MR
102/2	11417	Turbo Charger/ Supercharger	Boost Sensor "A" Circuit Range/Performance		PLD-MR
102/3	11415	Turbo Charger/ Supercharger	Boost Sensor "A" Circuit High		PLD-MR
102/4	11416	Turbo Charger/ Supercharger	Boost Sensor "A" Circuit Low		PLD-MR
102/13	11875 01874 11873	Turbo Charger/ Supercharger	Boost System Performance, Underboost		PLD-MR
103/7	12612	Turbo Charger/ Supercharger	Signal Timeout		PLD-MR
105/0	01822	Intake Air Temperature	Temperature too High		PLD-MR
105/3	11215	Intake Air Temperature Sensor 1	Circuit High		PLD-MR
105/4	11216	Intake Air Temperature Sensor 1	Circuit Low		PLD-MR
107/0	10800	Air Filter Sensor	Air Pressure too High	- Check wiring.	15/08
107/3	10803	Air Filter Sensor	Open Circuit	- Check wiring.	15/08
107/4	10804	Air Filter Sensor	Shorted to Ground	- Check wiring.	15/08
110/0	10900	Engine Coolant Temperature	High Coolant Temperature	- Cooling-water level and cooling circuit check.	PLD-MR
110/0	02122	Engine Coolant Temperature	High Coolant Temperature		PLD-MR
110/3	11515	Engine Coolant Temperature	Sensor 1 Circuit High		PLD-MR
110/4	11516	Engine Coolant Temperature	Sensor 1 Circuit Low		PLD-MR
110/14	10914	Engine Coolant Temperature	Coolant Temperature too High	- Cooling-water level and cooling circuit check.	PLD-MR
111/1	11001	Engine Coolant Level	Low Coolant Level	- Refill coolant - Check wiring	15/07
111/3	11003	Engine Coolant Level	Open Circuit	- Check wiring - Voltage must be larger than 2,0 V.	15/07
111/4	11004	Engine Coolant Level	Shorted to Ground	- Check wiring.	15/07
158/0	11100	Battery Voltage Switched - Terminal 15 (Ignition)	Over Voltage	- Check battery voltage - Check parameter 2/08 (24V/12V selection)	21/02
158/1	11101	Battery Voltage Switched - Terminal 15 (Ignition)	Under Voltage	- Check battery voltage - Check parameter 2/08 (24V/12V selection)	21/02
158/2	12219	Battery Voltage Switched	Inconsistent		PLD-MR
168/3	07542	System Voltage	Voltage High		PLD-MR

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168/4	07543	System Voltage	Voltage Low		PLD-MR
174/3	11115	Fuel Temperature Sensor "A"	Circuit High Input		PLD-MR
174/4	11116	Fuel Temperature Sensor "A"	Circuit Low Input		PLD-MR
175/3	01015	Engine Oil Temperature Sensor	Circuit High		PLD-MR
175/4	01016	Engine Oil Temperature Sensor	Circuit Low		PLD-MR
190/0	10530	Engine Speed	Engine Overspeed Condition		PLD-MR
558/1	11701	Idle Validation Switch (Analog Pedal)	Both signals are equal but should not	- Check wiring	21/12 and 21/13
558/5	11705	Idle Switch (Analog Pedal)	Both Switches Open Circuit (GAS2 + GAS1 Open)	- Check wiring - Pedal unit exchange, if defective	21/12 and 21/13
558/12	11712	Idle Switch (Analog Pedal)	Both Switches Closed (GAS2 + GAS1 Closed)	- check wiring - Pedal unit exchange, if defective	21/12 and 21/13
599/12	11812	Cruise Control Switch CC- (Set + Coast)	Both Switches CC- and CC+ closed	- Check wiring - Check cruise control switch	18/04 and 18/05
601/12	11912	Cruise Control Switch CC+ (Res + Acc)	Both Switches CC+ and CC- closed	- Check wiring - Check cruise control switch	18/04 and 18/05
609/2	xxxxx	PLD-MR	Unknown PLD-MR fault		PLD-MR
609/12	01315 01316 04024 14038 14039 14041 04038 04040 14054	PLD-MR, Barometric Pressure Circuit, Controller #2	PLD Bad Device, Pressure Sensor Open Circuit or Shorted to Ground, Auxiliary Voltage 8,5V Defective, Common Internal Error, Boot Load Data, Boot Block Defective, Flash Memory Defective, , No Application Software In Flash Application Software Defective, Flash Not Erasable		PLD-MR
609/14	04037 04047 04048 14049 04050 04051 14052 24053	PLD-MR	PLD Bad Device, RAM Area, Starter Driver, Set of Maps, EEPROM Checksums, High Side Driver, No. of Cylinder Immobilizer Response Counter Overflow		PLD-MR
611/4	16506	Oil Separator	Circuit Low		PLD-MR
611/12	16564	Oil Separator	Circuit High		PLD-MR
620/3	12103	Power Supply Analog Throttle Pedal (AFP+)	Voltage too High	- Supply voltage > 5,2 V.	21/09
620/4	12104	Power Supply Analog Throttle Pedal (AFP+)	Voltage too Low	- Supply voltage < 4,8 V.	21/09
625/2	12202	CAN link ADM2 – MR	No Communication with MR	- Check wiring (engine CAN) - Check configuration: MR parameter (...) and ADM2 parameter 1/01 to be set to equal functionality (One wire capability)	-
625/2	10104 10102	CAN link	No Communication with MR, Data Not Plausible		PLD-MR
625/14	10100 10101 10149	CAN link	One Wire Mode High line broken Low Line broken		PLD-MR

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625/14	12214	CAN link ADM2 – MR	One Wire Mode	- Check wiring (engine CAN) - Check configuration: MR parameter (./..) and ADM2 parameter 01/01 to be set to equal functionality (One wire capability)	-
629/12	12312	ADM2	Internal Error	-	-
636/1	10310	Crankshaft Position Sensor	Circuit Range/Perforamnce		PLD-MR
636/3	10309	Crankshaft Position Sensor	Open Circuit		PLD-MR
636/4	10308	Crankshaft Position Sensor	Low Input		PLD-MR
636/7	10311	Crankshaft Position Sensor	Camshaft Position Correlation (Bank 1 Sensor)		PLD-MR
636/8	10312	Crankshaft Position Sensor	Time Out		PLD-MR
636/14	10313	Crankshaft Position Sensor	Polarity Error		PLD-MR
651/5	15027	Injector Cylinder 1	Open Circuit		PLD-MR
651/6	25028	Injector Cylinder 1	Shorted Circuit		PLD-MR
651/7	15026	Injector Cylinder 1	Timing		PLD-MR
651/12	09044	Injector Cylinder 1	Contribution/Balance		PLD-MR
651/14	09045	Injector Cylinder 1	Contribution/Balance		PLD-MR
652/5	15127	Injector Cylinder 2	Open Circuit		PLD-MR
652/6	25128	Injector Cylinder 2	Shorted Circuit		PLD-MR
652/7	15126	Injector Cylinder 2	Timing		PLD-MR
652/12	09144	Injector Cylinder 2	Contribution/Balance		PLD-MR
652/14	09145	Injector Cylinder 2	Contribution/Balance		PLD-MR
653/5	15227	Injector Cylinder 3	Open Circuit		PLD-MR
653/6	25288	Injector Cylinder 3	Shorted Circuit		PLD-MR
653/7	15226	Injector Cylinder 3	Timing		PLD-MR
653/12	09244	Injector Cylinder 3	Contribution/Balance		PLD-MR
653/14	09245	Injector Cylinder 3	Contribution/Balance		PLD-MR
654/5	15327	Injector Cylinder 4	Open Circuit		PLD-MR
654/6	25328	Injector Cylinder 4	Shorted Circuit		PLD-MR
654/7	15326	Injector Cylinder 4	Timing		PLD-MR
655/12	09344	Injector Cylinder 5	Contribution/Balance		PLD-MR
655/14	09345	Injector Cylinder 5	Contribution/Balance		PLD-MR
655/5	15427	Injector Cylinder 5	Open Circuit		PLD-MR
655/6	25428	Injector Cylinder 5	Shorted Circuit		PLD-MR
655/7	15426	Injector Cylinder 5	Timing		PLD-MR
655/12	09444	Injector Cylinder 5	Contribution/Balance		PLD-MR
655/14	09445	Injector Cylinder 5	Contribution/Balance		PLD-MR
656/5	15527	Injector Cylinder 6	Open Circuit		PLD-MR
656/6	25528	Injector Cylinder 6	Shorted Circuit		PLD-MR
656/7	15526	Injector Cylinder 6	Timing		PLD-MR
656/12	09544	Injector Cylinder 6	Contribution/Balance		PLD-MR
656/14	09545	Injector Cylinder 6	Contribution/Balance		PLD-MR
657/5	15627	Injector Cylinder 7	Open Circuit		PLD-MR
657/6	25628	Injector Cylinder 7	Shorted Circuit		PLD-MR
657/7	15626	Injector Cylinder 7	Timing		PLD-MR
657/12	09644	Injector Cylinder 7	Contribution/Balance		PLD-MR
657/14	09645	Injector Cylinder 7	Contribution/Balance		PLD-MR

ADM2 fault code (J1939) SPN/FMI	ADM2 / PLD fault code (K-line)	Fault location	Fault description	Remedial action	Pin
658/5	15727	Injector Cylinder 8	Open Circuit		PLD-MR
658/6	25728	Injector Cylinder 8	Shorted Circuit		PLD-MR
658/7	15726	Injector Cylinder 8	Timing		PLD-MR
658/12	09744	Injector Cylinder 8	Contribution/Balance		PLD-MR
658/14	09745	Injector Cylinder 8	Contribution/Balance		PLD-MR
677/3	18005	Output Relay 1 (Engine Starter Motor Relay)	Shorted To High		PLD-MR
677/5	18009	Output Relay 1 (Engine Starter Motor Relay)	Open Circuit		PLD-MR
677/6	13306	Output Relay 1 (Engine Starter Motor Relay)	Shorted to Ground	- Check wiring - Check relay 1	PLD-MR
677/6	18008	Output Relay 1 (Engine Starter Motor Relay)	Shorted to Ground		PLD-MR
677/7	18086	Output Relay 1 (Engine Starter Motor Relay)	Starter Stick, Does not Engage		PLD-MR
677/14	18033	Output Relay 1 (Engine Starter Motor Relay)	Starter Relay Stick		PLD-MR
697/3	17705 17707	Proportional Valve 1	Circuit High		PLD-MR
697/4	17708	Proportional Valve 1	Circuit Low		PLD-MR
697/5	17009	Proportional Valve 1	Open Circuit		PLD-MR
697/6	17006	Proportional Valve 1	Shorted To Ground		PLD-MR
698/3	17307	Proportional Valve 2	Shorted To Battery Voltage		PLD-MR
698/5	17309	Proportional Valve 2	Open Circuit		PLD-MR
698/6	17306	Proportional Valve 3	Shorted To Ground		PLD-MR
699/5	17109	Proportional Valve 3	Open Circuit		PLD-MR
699/6	17106	Proportional Valve 3	Shorted To Ground		PLD-MR
700/5	17209	Proportional Valve 4	Open Circuit		PLD-MR
700/6	17206	Proportional Valve 4	Shorted To Ground		PLD-MR
677/5	13305	Output Relay 1 (Engine Starter Motor Relay)	Open Circuit	- Check wiring - Check relay 1	15/12
705/3	17405	Proportional Valve 5	Circuit High		PLD-MR
705/4	17408	Proportional Valve 5	Circuit Low		PLD-MR
706/3	17609	Proportional Valve 6	Circuit High		PLD-MR
723/3	10409	Camshaft Position Sensor "A" (Bank 1 or Single Sensor)	Open Circuit		PLD-MR
723/4	10408	Camshaft Position Sensor "A" (Bank 1 or Single Sensor)	Shorted To Ground		PLD-MR
723/8	10412	Camshaft Position Sensor "A" (Bank 1 or Single Sensor)	Time Out		PLD-MR
723/14	10413	Camshaft Position Sensor "A" (Bank 1 or Single Sensor)	Polarity Error, Pins Swapped		PLD-MR
730/0	13900	Output Relay 2 (Flame Start Valve)	Grid Heater: No Increasing Boost Temperature After Activation	- Check wiring - Check relay 2 - Check grid heater	15/09
730/1	13901	Output Relay 2 (Flame Start Valve)	Grid Heater: Relay Permanently Closed	- Check wiring - Check relay 2	15/09
730/2	13902	Output Relay 2 (Flame Start Valve)	Grid Heater: Relay Permanently Closed	- Check wiring - Check relay 2	15/09
730/3	13903	Output Relay 2 (Flame Start Valve)	Voltage too High or Shorted to Battery Voltage	- Check wiring	15/09

ADM2 fault code (J1939) SPN/FMI	ADM2 / PLD fault code (K-line)	Fault location	Fault description	Remedial action	Pin
730/4	13904	Output Relay 2 (Flame Start Valve)	Voltage too Low or Shorted to Ground	- Check wiring - Check relay 2	15/09
974/2	14202	Remote Throttle Pedal HFG	Supply Voltage Out of Range	- Limit values for the supply voltage of the HFG: Minimum value: 4,8 V and maximum value: 5,2 V.	18/17
974/3	14203	Remote Throttle Pedal HFG	Voltage too High or Shorted to Battery Voltage	- Check wiring - Check remote pedal	18/18
974/4	14204	Remote Throttle Pedal HFG	Voltage too Low or Shorted to Ground	- Check wiring - Check remote pedal	18/18
986/8	17112	Fan Speed	Sensor Circuit no Signal		PLD-MR
1004/3	14403	Output Relay 4 (Accessory Bus Shutdown)	Open circuit	- Check wiring - Check relay 4	18/01
1004/4	14404	Output Relay 4 (Accessory Bus Shutdown)	Shorted to Ground	- Check wiring - Check relay	18/01
1005/3	14503	Output PWM Pedal Supply Or Transmission (Gear Output 1)	Open Circuit	- Check wiring.	15/05
1005/4	14504	Output PWM Pedal Supply Or Transmission (Gear Output 1)	Shorted to Ground	- Check wiring.	15/05
1006/3	14603	Exhaust Brake Valve MBR_BK (Gear Output 2)	Open Circuit	- Check wiring - Check exhaust brake valve	15/06
1006/4	14604	Exhaust Brake Valve MBR_BK (Gear Output 2)	Shorted to Ground	- Check wiring - Check exhaust brake valve	15/06
639/2	14902	J1939 CAN-Interface	At least one J1939 message is missing	- Check wiring - Check other Control Units on J1939	
1015/1	15001	PWM Accelerator Pedal	No Supply Voltage	- Check wiring	15/05
1015/2	15002	PWM Accelerator Pedal	Both Signals Missing (GAS1 and GAS2)	- Check wiring - Pins 21/13, 21/12, 15/05 , 21/14.	
1015/3	15003	PWM Accelerator Pedal	Signal GAS2 not Available	- Check wiring - Pins 21/13, 15/05 , 21/14.	
1015/4	15004	PWM Accelerator Pedal	Signal GAS1 not Available	- Check wiring - Pins 21/12, 15/05 , 21/14	
1015/5	15005	PWM Accelerator Pedal	Accelerator Pedal not Adjusted	- Restart accelerator pedal adjustment routine	-
1015/6	15006	PWM Accelerator Pedal	Idle Position Out of Adjusted Range	- Restart accelerator pedal adjustment routine	-
1015/7	15007	PWM Accelerator Pedal	Accelerator Pedal Out of Adjusted Range	- Restart accelerator pedal adjustment routine	-