

9. Fault codes

9.1. Fault codes diagnosis version 209

The background colour is used to indicate the newly supported or changed fault codes since diagnosis version 207. The background colour indicates PLD/MR2 fault codes which are received from the PLD/MR2 control unit and are broadcasted by the ADM over J1939.

ADM3 fault code (J1939) SPN / FMI	ADM3 fault code (K-line)	Fault location	Fault description	Remedial action	Pin
51 / 0	-	Engine Throttle Position	Above Measuring Range		LSCAN-MR
51 / 1	-	Engine Throttle Position	Below Measuring Range		LSCAN-MR
51 / 2	-	Engine Throttle Position	Performance, Measuring Range Not Plausible		LSCAN-MR
51 / 3	-	Engine Throttle Position Sensor	Circuit High		LSCAN-MR
51 / 4	-	Engine Throttle Position Sensor	Circuit Low		LSCAN-MR
51 / 7	-	Engine Throttle Position	Defective		LSCAN-MR
51 / 13	-	Engine Throttle Position	Position Not Learned		LSCAN-MR
69 / 9	17309	Two Speed Axle Switch	Abnormal Update Rate		CAN-J1939
69 / 19	17319	Two Speed Axle Switch	Received Network Data in Error		CAN-J1939
70 / 9	17409	Parking Brake Switch	Abnormal Update Rate		CAN-J1939
70 / 19	17419	Parking Brake Switch	Received Network Data in Error		CAN-J1939
84 / 3	10103	Vehicle Speed (C3 or J1939)	Open Circuit	- Check wiring	15/03
84 / 9	10109	Vehicle Speed (C3 or J1939)	Abnormal Update Rate		CAN-J1939
84 / 14	10114	Vehicle Speed (C3 or J1939)	Signal Not Plausible	- Check wiring	15/03
84 / 19	10119	Vehicle Speed (C3 or J1939)	Received Network Data in Error		CAN-J1939
91 / 0	10200	Accelerator Pedal (AFPS or J1939)	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 / 3	10203	Accelerator Pedal (AFPS or J1939)	Voltage too High	- 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	Accelerator Pedal (AFPS or J1939)	Voltage too Low	- 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 / 9	10209	Accelerator Pedal (AFPS or J1939)	Abnormal Update Rate		CAN-J1939
91 / 19	10219	Accelerator Pedal (AFPS or J1939)	Received Network Data in Error		CAN-J1939
94 / 0	-	Fuel Pressure	Circuit High Input		LSCAN-MR

9. Fault codes

ADM3 fault code (J1939) SPN / FMI	ADM3 fault code (K-line)	Fault location	Fault description	Remedial action	Pin
94 / 1	-	Fuel Pressure	Circuit Low Input		LSCAN-MR
94 / 2	-	Fuel Pressure	Range/Performance		LSCAN-MR
94 / 3	-	Fuel Pressure	Open Circuit		LSCAN-MR
94 / 4	-	Fuel Pressure	Shorted To Ground		LSCAN-MR
94 / 14	-	Fuel Pressure	Pressure Too High/Too Low		LSCAN-MR
96 / 9	17509	Fuel Level	Abnormal Update Rate		CAN-J1939
96 / 19	17519	Fuel Level	Received Network Data in Error		CAN-J1939
98 / 0	10400	Oil Level (from PLD/MR2)	Oil Level too High	- Oil discharge with to strong overstocking. - Remark: This problem can occur also if in PLD/MR2 the false type of oil pan were programmed.	PLD/MR2
98 / 1	10401	Oil Level (from PLD/MR2)	Low Oil Level	- Refill oil	PLD/MR2
98 / 2	-	Oil Level (from PLD/MR2)	Data Erratic, Oil Level too High or too Low, Not Plausible		LSCAN-MR
98 / 3	-	Oil Level (from PLD/MR2)	Voltage Below		LSCAN-MR
98 / 4	-	Oil Level (from PLD/MR2)	Voltage Above		LSCAN-MR
98 / 5	-	Oil Level (from PLD/MR2)	Open Circuit		LSCAN-MR
98 / 14	10414	Oil Level (from PLD/MR2)	Oil Level too Low	- Refill oil - Remark: This problem can occur also if in PLD/MR2 the false type of oil pan were programmed.	PLD/MR2
100 / 1	10501	Oil Pressure (from PLD/MR2)	Low Oil Pressure	- Check oil pump and oil circuit	PLD/MR2
100 / 1	-	Oil Pressure (from PLD/MR2)	Oil Pressure too Low		LSCAN-MR
100 / 2	-	Oil Pressure (from PLD/MR2)	Range/Performance		LSCAN-MR
100 / 3	-	Oil Pressure (from PLD/MR2)	High Voltage		LSCAN-MR
100 / 4	-	Oil Pressure (from PLD/MR2)	Low Voltage		LSCAN-MR
100 / 14	10514	Oil Pressure (from PLD/MR2)	Oil Pressure too Low	- Check oil pump and oil circuit.	PLD/MR2
102 / 0	-	Turbo Charger/ Supercharger	Overboost Condition		LSCAN-MR
102 / 1	-	Turbo Charger/ Supercharger	Boost System Performance		LSCAN-MR
102 / 2	-	Turbo Charger/ Supercharger	Boost Sensor "A" Circuit Range/Performance		LSCAN-MR
102 / 3	-	Turbo Charger/ Supercharger	Boost Sensor "A" Circuit High		LSCAN-MR
102 / 4	-	Turbo Charger/ Supercharger	Boost Sensor "A" Circuit Low		LSCAN-MR
102 / 7	-	Turbo Charger/ Supercharger	Boost System Performance, Bypass Valve – Mechanical		LSCAN-MR
102 / 13	-	Turbo Charger/ Supercharger	Underboost, Boost System Performance		LSCAN-MR

ADM3 fault code (J1939) SPN / FMI	ADM3 fault code (K-line)	Fault location	Fault description	Remedial action	Pin
103 / 3	-	Turbo Charger Speed Sensor	Circuit Low		LSCAN-MR
103 / 4	-	Turbo Charger Speed Sensor	Circuit High		LSCAN-MR
103 / 7	-	Turbo Charger Speed Sensor	Signal Timeout, no revolution on charger 1		LSCAN-MR
103 / 14	-	Generator Speed Sensing	Signal Timeout, no revolution on charger 2		LSCAN-MR
105 / 0	-	Intake Air Temperature	Temperature Too high		LSCAN-MR
105 / 3	-	Intake Air Temperature Sensor 1	Circuit High		LSCAN-MR
105 / 4	-	Intake Air Temperature Sensor 1	Circuit Low		LSCAN-MR
107 / 0	10800	Air Filter Sensor (LF_SE)	Differential Pressure too High	- Check wiring.	15/08
107 / 3	10803	Air Filter Sensor (LF_SE)	Open Circuit	- Check wiring.	15/08
107 / 4	10804	Air Filter Sensor (LF_SE)	Short Circuit to Ground	- Check wiring.	15/08
110 / 0	-	Coolant Temperature (from PLD/MR2)	High Coolant Temperature	- Cooling-water level and cooling circuit check.	LSCAN-MR
110 / 3	-	Coolant Temperature (from PLD/MR2)	Sensor 1 Circuit High		LSCAN-MR
110 / 4	-	Coolant Temperature (from PLD/MR2)	Sensor 1 Circuit Low		LSCAN-MR
110 / 14	10914	Coolant Temperature (from PLD/MR2)	Coolant Temperature too High	- Cooling-water level and cooling circuit check.	PLD/MR2
111 / 1	11001	Coolant Level Sensor (KW_SE)	Low Coolant Level	- Refill coolant - Check wiring	15/07
111 / 3	11003	Coolant Level Sensor (KW_SE)	Open Circuit	- Check wiring - Voltage must be larger than 2,0 V.	15/07
111 / 4	11004	Coolant Level Sensor (KW_SE)	Short Circuit to Ground	- Check wiring.	15/07
111 / 14	11014	Coolant Level Sensor (KW_SE)	Coolant Level too Low	- Refill coolant - Check wiring	15/07
158 / 0	11100	Battery Voltage Switched (Terminal 15)	Over Voltage	- Check battery voltage - Check parameter 2/08 (24V/12V selection)	21/02
158 / 1	11101	Battery Voltage Switched (Terminal 15)	Under Voltage	- Check battery voltage - Check parameter 2/08 (24V/12V selection)	21/02
158 / 2	-	Battery Voltage Switched (Terminal 15)	Inconsistent		LSCAN-MR
158 / 14	-	Battery Voltage Switched (Terminal 15)	Starter Switch Inconsistent		LSCAN-MR
161 / 9	17609	Transmission Input Shaft Speed	Abnormal Update Rate		CAN-J1939
161 / 19	17619	Transmission Input Shaft Speed	Received Network Data in Error		CAN-J1939
168 / 3	-	System Voltage	Voltage High		LSCAN-MR
168 / 4	-	System Voltage	Voltage Low		LSCAN-MR
171 / 2	-	Ambient Air Temperature	Sensor Circuit Range/Performance		LSCAN-MR
171 / 9	-	Ambient Air Temperature	Lost Message		LSCAN-MR
171 / 9	16609	Ambient Air Temperature	Abnormal Update Rate		CAN-J1939
171 / 19	16619	Ambient Air Temperature	Received Network Data in Error		CAN-J1939

9. Fault codes

ADM3 fault code (J1939) SPN / FMI	ADM3 fault code (K-line)	Fault location	Fault description	Remedial action	Pin
173 / 0	-	Engine Exhaust Gas Temperature	Above Nominal Value		LSCAN-MR
173 / 15	-	Engine Exhaust Gas Temperature	Too High		LSCAN-MR
174 / 3	-	Fuel Temperature Sensor "A"	Circuit High Input		LSCAN-MR
174 / 4	-	Fuel Temperature Sensor "A"	Circuit Low Input		LSCAN-MR
175 / 3	-	Engine Oil Temperature Sensor	Circuit High		LSCAN-MR
175 / 4	-	Engine Oil Temperature Sensor	Circuit Low		LSCAN-MR
190 / 0	-	Engine Speed	Engine Overspeed Condition		LSCAN-MR
191 / 9	17709	Transmission Output Shaft Speed	Abnormal Update Rate		CAN-J1939
191 / 19	17719	Transmission Output Shaft Speed	Received Network Data in Error		CAN-J1939
354 / 3	-	Ambient Air Combi Sensor, Part Humidity	Circuit High		LSCAN-MR
354 / 4	-	Ambient Air Combi Sensor, Part Humidity	Circuit Low		LSCAN-MR
523 / 9	17809	Transmission Current Gear	Abnormal Update Rate		CAN-J1939
523 / 19	17819	Transmission Current Gear	Received Network Data in Error		CAN-J1939
524 / 9	17909	Transmission Selected Gear	Abnormal Update Rate		CAN-J1939
524 / 19	17919	Transmission Selected Gear	Received Network Data in Error		CAN-J1939
558 / 1	11701	Accelerator Pedal Idle Switch (GAS1 + GAS2 or J1939)	Both Signals Equal but Should Not	- Check wiring	21/12 and 21/13
558 / 5	11705	Accelerator Pedal Idle Switch (GAS1 + GAS2 or J1939)	Both Switches Open Circuit	- Check wiring - Pedal unit exchange, if defective	21/12 and 21/13
558 / 9	11709	Accelerator Pedal Idle Switch (GAS1 + GAS2 or J1939)	Abnormal Update Rate		CAN-J1939
558 / 12	11712	Accelerator Pedal Idle Switch (GAS1 + GAS2 or J1939)	Both Switches Closed	- check wiring - Pedal unit exchange, if defective	21/12 and 21/13
558 / 19	11719	Accelerator Pedal Idle Switch (GAS1 + GAS2 or J1939)	Received Network Data in Error		CAN-J1939
559 / 9	18009	Accelerator Pedal Kickdown Switch	Abnormal Update Rate		CAN-J1939
559 / 19	18019	Accelerator Pedal Kickdown Switch	Received Network Data in Error		CAN-J1939
573 / 9	18109	Transmission Torque Converter Lockup Engaged	Abnormal Update Rate		CAN-J1939
573 / 19	18119	Transmission Torque Converter Lockup Engaged	Received Network Data in Error		CAN-J1939
574 / 9	18209	Transmission Shift In Process	Abnormal Update Rate		CAN-J1939
574 / 19	18219	Transmission Shift In Process	Received Network Data in Error		CAN-J1939
596 / 9	18309	Cruise Control Enable Switch	Abnormal Update Rate		CAN-J1939

ADM3 fault code (J1939) SPN / FMI	ADM3 fault code (K-line)	Fault location	Fault description	Remedial action	Pin
596 / 19	18319	Cruise Control Enable Switch	Received Network Data in Error		CAN-J1939
597 / 9	18409	Brake Switch	Abnormal Update Rate		CAN-J1939
597 / 19	18419	Brake Switch	Received Network Data in Error		CAN-J1939
598 / 9	18509	Clutch Switch	Abnormal Update Rate		CAN-J1939
598 / 19	18519	Clutch Switch	Received Network Data in Error		CAN-J1939
599 / 9	11809	Cruise Control Switch CC- (Set + Coast)	Abnormal Update Rate (Set Switch)		CAN-J1939
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
599 / 14	11814	Cruise Control Switch CC- (Set + Coast)	Plausibility Check Failed (Check Stalk Switch Wiring)	- Check wiring of stalk switch - Check parameter 13/37	18/04 and 12/07
599 / 19	11819	Cruise Control Switch CC- (Set + Coast)	Received Network Data in Error		CAN-J1939
600 / 9	18609	Cruise Control Coast (Decelerate) Switch	Abnormal Update Rate		CAN-J1939
600 / 19	18619	Cruise Control Coast (Decelerate) Switch	Received Network Data in Error		CAN-J1939
601 / 9	11909	Cruise Control Switch CC+ (Res + Acc)	Abnormal Update Rate (Resume Switch)		CAN-J1939
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
601 / 14	11914	Cruise Control Switch CC+ (Res + Acc)	Plausibility Check Failed (Check Stalk Switch Wiring)	- Check wiring of stalk switch - Check parameter 13/37	18/05 and 12/07
601 / 19	11919	Cruise Control Switch CC+ (Res + Acc)	Received Network Data in Error		CAN-J1939
602 / 9	18709	CCVS Cruise Control Accelerate Switch	Abnormal Update Rate or Signal Not Available		CAN-J1939
602 / 19	18719	CCVS Cruise Control Accelerate Switch	Received Network Data in Error		CAN-J1939
609 / 0	-	Anti Theft Device	Immobilizer Number of Keys Limited to 8		LSCAN-MR
609 / 2	12002	PLD/MR2 Error	Unknown Cause	- Check PLD/MR2 Error Codes	PLD/MR2
609 / 9	-	Anti Theft Device	Immobilizer TPC Signal Error Starter Line		LSCAN-MR
609 / 11	-	PLD/MR2, Anti Theft Device	Data Map Manipulated, Immobilizer Automatically Activated		LSCAN-MR
609 / 12	-	PLD/MR2, Barometric Pressure Circuit, Controller #2	PLD/MR2 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		LSCAN-MR
609 / 13	-	PLD/MR2	No. Of Cylinders Not Corresponding To Engine Type		LSCAN-MR

9. Fault codes

ADM3 fault code (J1939) SPN / FMI	ADM3 fault code (K-line)	Fault location	Fault description	Remedial action	Pin
609 / 14	-	PLD/MR2, Anti Theft Device	PLD/MR2 Bad Device, RAM Area, Starter Driver, Set of Maps, EEPROM Checksums, High Side Driver, No. of Cylinder Immobilizer Response Counter Overflow		LSCAN-MR
611 / 4	-	Oil Separator	Circuit Low		LSCAN-MR
611 / 12	-	Oil Separator	Circuit High		LSCAN-MR
620 / 3	12103	Supply Analog Accelerator Pedal (AFP+)	Voltage too High	- Supply voltage > 5,2 V.	21/09
620 / 4	12104	Supply Analog Accelerator Pedal (AFP+)	Voltage too Low	- Supply voltage < 4,8 V.	21/09
625 / 2	12202	CAN Link ADM3 – PLD/MR2	No Communication with PLD/MR2	- Check wiring (engine CAN) - Check configuration: PLD/MR2 parameter (../..) and ADM3 parameter 01/01 to be set to equal functionality (One wire capability)	-
625 / 14	-	CAN Link ADM3 – PLD/MR2	One Wire Mode	- Check wiring (engine CAN) - Check configuration: PLD/MR2 parameter (../..) and ADM3 parameter 01/01 to be set to equal functionality (One wire capability)	LSCAN-MR
630 / 2	-	Control Module	Module Performance		LSCAN-MR
630 / 9	-	Control Module	Vehicle Options Error	- Check Engine Brake Parameters	LSCAN-MR
632 / 5	-	Fuel Shutoff Valve "A" Control	Circuit Open		LSCAN-MR
636 / 1	-	Crankshaft Position Sensor "A"	Circuit Range/Performance		LSCAN-MR
636 / 3	-	Crankshaft Position Sensor "A"	Open Circuit		LSCAN-MR
636 / 4	-	Crankshaft Position Sensor "A"	Low Input		LSCAN-MR
636 / 7	-	Crankshaft Position	Camshaft Position Correlation (Bank 1 Sensor)		LSCAN-MR
636 / 8	-	Crankshaft Position Sensor "A" Circuit	Time Out		LSCAN-MR
636 / 14	-	Crankshaft Position Sensor "A"	Polarity Error		LSCAN-MR
639 / 2	14902	SAE J1939 Interface	At Least One J1939 Message is Missing	- Check wiring - Check other Control Units on J1939	CAN-J1939
651 / 3	-	Injector Cylinder 1	Circuit High		LSCAN-MR
651 / 4	-	Injector Cylinder 1	Circuit Low		LSCAN-MR
651 / 5	-	Injector Cylinder 1	Open Circuit		LSCAN-MR
651 / 6	-	Injector Cylinder 1	Shorted Circuit		LSCAN-MR
651 / 7	-	Injector Cylinder 1	Injection Timing, No Plunger		LSCAN-MR
651 / 12	-	Injector Cylinder 1	Idle Control At Limit		LSCAN-MR
651 / 14	-	Injector Cylinder 1	Cylinder Correction At Limit		LSCAN-MR
652 / 3	-	Injector Cylinder 2	Circuit High		LSCAN-MR

ADM3 fault code (J1939) SPN / FMI	ADM3 fault code (K-line)	Fault location	Fault description	Remedial action	Pin
652 / 4	-	Injector Cylinder 2	Circuit Low		LSCAN-MR
652 / 5	-	Injector Cylinder 2	Open Circuit		LSCAN-MR
652 / 6	-	Injector Cylinder 2	Shorted Circuit		LSCAN-MR
652 / 7	-	Injector Cylinder 2	Injection Timing, No Plunger		LSCAN-MR
652 / 12	-	Injector Cylinder 2	Idle Control At Limit		LSCAN-MR
652 / 14	-	Injector Cylinder 2	Cylinder Correction At Limit		LSCAN-MR
653 / 3	-	Injector Cylinder 3	Circuit High		LSCAN-MR
653 / 4	-	Injector Cylinder 3	Circuit Low		LSCAN-MR
653 / 5	-	Injector Cylinder 3	Open Circuit		LSCAN-MR
653 / 6	-	Injector Cylinder 3	Shorted Circuit		LSCAN-MR
653 / 7	-	Injector Cylinder 3	Injection Timing, No Plunger		LSCAN-MR
653 / 12	-	Injector Cylinder 3	Idle Control At Limit		LSCAN-MR
653 / 14	-	Injector Cylinder 3	Cylinder Correction At Limit		LSCAN-MR
654 / 3	-	Injector Cylinder 4	Circuit High		LSCAN-MR
654 / 4	-	Injector Cylinder 4	Circuit Low		LSCAN-MR
654 / 5	-	Injector Cylinder 4	Open Circuit		LSCAN-MR
654 / 6	-	Injector Cylinder 4	Shorted Circuit		LSCAN-MR
654 / 7	-	Injector Cylinder 4	Injection Timing, No Plunger		LSCAN-MR
654 / 12	-	Injector Cylinder 4	Idle Control At Limit		LSCAN-MR
654 / 14	-	Injector Cylinder 4	Cylinder Correction At Limit		LSCAN-MR
655 / 3	-	Injector Cylinder 5	Circuit High		LSCAN-MR
655 / 4	-	Injector Cylinder 5	Circuit Low		LSCAN-MR
655 / 5	-	Injector Cylinder 5	Open Circuit		LSCAN-MR
655 / 6	-	Injector Cylinder 5	Shorted Circuit		LSCAN-MR
655 / 7	-	Injector Cylinder 5	Injection Timing, No Plunger		LSCAN-MR
655 / 12	-	Injector Cylinder 5	Idle Control At Limit		LSCAN-MR
655 / 14	-	Injector Cylinder 5	Cylinder Correction At Limit		LSCAN-MR
656 / 3	-	Injector Cylinder 6	Circuit High		LSCAN-MR
656 / 4	-	Injector Cylinder 6	Circuit Low		LSCAN-MR
656 / 5	-	Injector Cylinder 6	Open Circuit		LSCAN-MR

9. Fault codes

ADM3 fault code (J1939) SPN / FMI	ADM3 fault code (K-line)	Fault location	Fault description	Remedial action	Pin
656 / 6	-	Injector Cylinder 6	Shorted Circuit		LSCAN-MR
656 / 7	-	Injector Cylinder 6	Injection Timing, No Plunger		LSCAN-MR
656 / 12	-	Injector Cylinder 6	Idle Control At Limit		LSCAN-MR
656 / 14	-	Injector Cylinder 6	Cylinder Correction At Limit		LSCAN-MR
657 / 5	-	Injector Cylinder 7	Open Circuit		LSCAN-MR
657 / 6	-	Injector Cylinder 7	Shorted Circuit		LSCAN-MR
657 / 7	-	Injector Cylinder 7	Injection Timing, No Plunger		LSCAN-MR
657 / 12	-	Injector Cylinder 7	Idle Control At Limit		LSCAN-MR
657 / 14	-	Injector Cylinder 7	Cylinder Correction At Limit		LSCAN-MR
658 / 5	-	Injector Cylinder 8	Open Circuit		LSCAN-MR
658 / 6	-	Injector Cylinder 8	Shorted Circuit		LSCAN-MR
658 / 7	-	Injector Cylinder 8	Injection Timing, No Plunger		LSCAN-MR
658 / 12	-	Injector Cylinder 8	Idle Control At Limit		LSCAN-MR
658 / 14	-	Injector Cylinder 8	Cylinder Correction At Limit		LSCAN-MR
677 / 3	-	Output Relay 1 (PLD/MR2)	Shorted To High		LSCAN-MR
677 / 3	13303	Output Relay 1 (REL 1)	Open Circuit	- Check wiring - Check relay 1	15/12
677 / 4	13304	Output Relay 1 (REL 1)	Short Circuit to Ground	- Check wiring - Check relay 1	15/12
677 / 7	-	Output Relay 1 (PLD/MR2)	Starter Stick, Does not Engage		LSCAN-MR
677 / 14	-	Output Relay 1 (PLD/MR2)	Starter Relay Stick		LSCAN-MR
697 / 3	-	Proportional Valve 1	Circuit High, Shorted To Battery Voltage Bank 1		LSCAN-MR
697 / 4	-	Proportional Valve 1	Shorted To Ground Bank 1		LSCAN-MR
697 / 5	-	Proportional Valve 1	Open Circuit		LSCAN-MR
697 / 6	-	Proportional Valve 1	Shorted To Ground		LSCAN-MR
698 / 3	-	Proportional Valve 2	Shorted To Battery Voltage		LSCAN-MR
698 / 5	-	Proportional Valve 2	Open Circuit		LSCAN-MR
698 / 6	-	Proportional Valve 2	Shorted To Ground		LSCAN-MR
699 / 3	-	Proportional Valve 3	Shorted To Battery Voltage		LSCAN-MR
699 / 5	-	Proportional Valve 3	Open Circuit		LSCAN-MR
699 / 6	-	Proportional Valve 3	Shorted To Ground		LSCAN-MR
700 / 3	-	Proportional Valve 4	Shorted To Battery Voltage		LSCAN-MR

ADM3 fault code (J1939) SPN / FMI	ADM3 fault code (K-line)	Fault location	Fault description	Remedial action	Pin
700 / 5	-	Proportional Valve 4	Open Circuit		LSCAN-MR
700 / 6	-	Proportional Valve 4	Shorted To Ground		LSCAN-MR
705 / 3	-	Proportional Valve 5	Shorted To Battery Voltage, Shorted To UB Bank 2		LSCAN-MR
705 / 4	-	Proportional Valve 5	Shorted To Ground, Shorted To Ground Bank 2		LSCAN-MR
706 / 3	-	Proportional Valve 6	Open Circuit		LSCAN-MR
706 / 5	-	Proportional Valve 6	Shorted To Battery Voltage		LSCAN-MR
706 / 6	-	Proportional Valve 6	Shorted To Ground		LSCAN-MR
723 / 3	-	Camshaft Position Sensor "A" (Bank 1 or Single Sensor)	Open Circuit		LSCAN-MR
723 / 4	-	Camshaft Position Sensor "A" (Bank 1 or Single Sensor)	Shorted To Ground		LSCAN-MR
723 / 8	-	Camshaft Position Sensor "A" (Bank 1 or Single Sensor)	Time Out		LSCAN-MR
723 / 14	-	Camshaft Position Sensor "A" (Bank 1 or Single Sensor)	Polarity Error, Pins Swapped		LSCAN-MR
729 / 3	14003	Intake Air Heater (MBR_KD)	Open Circuit	- Check wiring - Check solenoid valve	15/10
729 / 4	14004	Intake Air Heater (MBR_KD)	Short Circuit to Ground	- Check wiring - Check solenoid valve	15/10
729 / 5	-	Intake Air Heater (PLD/MR2)	Circuit Open		LSCAN-MR
729 / 12	-	Intake Air Heater (PLD/MR2)	Circuit Universal Troubles		LSCAN-MR
730 / 0	13900	Output Relay 2 (REL 2)	Grid Heater: No Increasing Boost Temperature After Activation	- Check wiring - Check relay 2 - Check grid heater	15/09
730 / 1	13901	Output Relay 2 (REL 2)	Grid Heater: Relay Permanently Closed	- Check wiring - Check relay 2	15/09
730 / 2	13902	Output Relay 2 (REL 2)	Grid Heater: Relay Permanently Open	- Check wiring - Check relay 2	15/09
730 / 3	13903	Output Relay 2 (REL 2)	Voltage too High when Activated	- Check wiring	15/09
730 / 4	13904	Output Relay 2 (REL 2)	Voltage too Low when Activated	- Check wiring - Check relay 2	15/09
870 / 3	-	SCR Diffusor Heating, Heater Regeneration System	Circuit High		LSCAN-MR
870 / 4	-	SCR Diffusor Heating, Heater Regeneration System	Circuit Low		LSCAN-MR
870 / 5	-	SCR Diffusor Heating	Circuit Open		LSCAN-MR
904 / 9	18809	Front Axle Speed	Abnormal Update Rate		CAN-J1939
904 / 19	18819	Front Axle Speed	Received Network Data in Error		CAN-J1939
925 / 3	-	SCR Module Proportional Valve Bank	Circuit High		LSCAN-MR

9. Fault codes

ADM3 fault code (J1939) SPN / FMI	ADM3 fault code (K-line)	Fault location	Fault description	Remedial action	Pin
925 / 4	-	SCR Module Proportional Valve Bank	Circuit Low		LSCAN-MR
973 / 9	18909	Engine Retarder Selection	Abnormal Update Rate		CAN-J1939
973 / 19	18919	Engine Retarder Selection	Received Network Data in Error		CAN-J1939
974 / 2	14202	Remote Throttle Pedal (HFG)	Supply Voltage Out of Range (Pin HFG+)	- 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	- Check wiring - Check remote pedal	18/18
974 / 4	14204	Remote Throttle Pedal (HFG)	Voltage too Low	- Check wiring - Check remote pedal	18/18
986 / 1	-	Fan Speed	Speed Too Low		LSCAN-MR
986 / 9	-	Fan Speed	Time Out		LSCAN-MR
1004 / 3	14403	Output Relay 4 (REL 4)	Open Circuit	- Check wiring - Check relay 4	18/01
1004 / 4	14404	Output Relay 4 (REL 4)	Short Circuit to Ground	- Check wiring - Check relay	18/01
1005 / 3	14503	Output PWM Pedal Supply or Transmission (FP+)	Open Circuit	- Check wiring.	15/05
1005 / 4	14504	Output PWM Pedal Supply or Transmission (FP+)	Short Circuit to Ground	- Check wiring.	15/05
1015 / 1	15001	PWM Accelerator Pedal (PWM FFG)	No Supply Voltage at Pin FP+	- Check wiring	15/05
1015 / 3	15003	PWM Accelerator Pedal (PWM FFG)	No Signal at Path 2 (GAS2)	- Check wiring - Pins 21/13, 15/05 , 21/14.	
1015 / 4	15004	PWM Accelerator Pedal (PWM FFG)	No Signal at Path 1 (GAS1)	- Check wiring - Pins 21/12, 15/05 , 21/14	
1015 / 5	15005	PWM Accelerator Pedal (PWM FFG)	Not Adjusted	- Restart accelerator pedal adjustment routine	-
1015 / 6	15006	PWM Accelerator Pedal (PWM FFG)	Idle Position Out of Adjusted Range	- Restart accelerator pedal adjustment routine	-
1015 / 7	15007	PWM Accelerator Pedal (PWM FFG)	Out of Adjusted Range	- Restart accelerator pedal adjustment routine	-
1072 / 3	10003	Decompression Brake Valve (MBR_KD)	Open Circuit	- Check wiring - Check solenoid valve	15/10
1072 / 4	10004	Decompression Brake Valve (MBR_KD)	Short Circuit to Ground	- Check wiring - Check solenoid valve	15/10
1074 / 3	14603	Exhaust Brake Valve (MBR_BK)	Open Circuit	- Check wiring - Check exhaust brake valve	15/06
1074 / 3	-	Exhaust Brake Valve (PLD/MR2)	Circuit High		LSCAN-MR
1074 / 4	14604	Exhaust Brake Valve (MBR_BK)	Short Circuit to Ground	- Check wiring - Check exhaust brake valve	15/06
1074 / 4	-	Exhaust Brake Valve (PLD/MR2)	Circuit Low		LSCAN-MR
1074 / 5	-	Exhaust Brake Valve (PLD/MR2)	Circuit Open		LSCAN-MR
1074 / 12	-	Exhaust Brake Valve (PLD/MR2)	Performance		LSCAN-MR
1127 / 1	-	Intake Throttle Turbocharger	Underboost		LSCAN-MR
1132 / 0	-	Intake Air Temperature Sensor 2	Circuit High		LSCAN-MR

ADM3 fault code (J1939) SPN / FMI	ADM3 fault code (K-line)	Fault location	Fault description	Remedial action	Pin
1132 / 1	-	Intake Air Temperature Sensor 2	Circuit Low		LSCAN-MR
1132 / 3	-	Intake Air Temperature Sensor 2	Circuit High		LSCAN-MR
1132 / 4	-	Intake Air Temperature Sensor 2	Circuit Low		LSCAN-MR
1136 / 0	-	Engine ECU Temperature	Temperature too High		LSCAN-MR
1136 / 1	-	Engine ECU Temperature	Temperature too Low		LSCAN-MR
1184 / 0	-	Engine Turbocharger 1 Turbine Outlet Temperature	Temperature Too High		LSCAN-MR
1184 / 2	-	Engine Turbocharger 1 Turbine Outlet Temperature	Not Plausible		LSCAN-MR
1184 / 3	-	Engine Turbocharger 1 Turbine Outlet Temperature	Circuit High		LSCAN-MR
1184 / 4	-	Engine Turbocharger 1 Turbine Outlet Temperature	Circuit Low		LSCAN-MR
1213 / 12	-	Malfunction Indicator Lamp (MIL)	Control Circuit		LSCAN-MR
1227 / 7	-	Constant Throttle System	System Performance		LSCAN-MR
1231 / 9	-	High Speed CAN Communication Bus	Lost Communication		LSCAN-MR
1268 / 3	-	Engine Ignition Coil #1	Circuit High		LSCAN-MR
1268 / 4	-	Engine Ignition Coil #1	Circuit Low		LSCAN-MR
1268 / 5	-	Engine Ignition Coil #1	Open Circuit		LSCAN-MR
1269 / 3	-	Engine Ignition Coil #2	Circuit High		LSCAN-MR
1269 / 4	-	Engine Ignition Coil #2	Circuit Low		LSCAN-MR
1269 / 5	-	Engine Ignition Coil #2	Open Circuit		LSCAN-MR
1270 / 3	-	Engine Ignition Coil #3	Circuit High		LSCAN-MR
1270 / 4	-	Engine Ignition Coil #3	Circuit Low		LSCAN-MR
1270 / 5	-	Engine Ignition Coil #3	Open Circuit		LSCAN-MR
1271 / 3	-	Engine Ignition Coil #4	Circuit High		LSCAN-MR
1271 / 4	-	Engine Ignition Coil #4	Circuit Low		LSCAN-MR
1271 / 5	-	Engine Ignition Coil #4	Open Circuit		LSCAN-MR
1272 / 3	-	Engine Ignition Coil #5	Circuit High		LSCAN-MR
1272 / 4	-	Engine Ignition Coil #5	Circuit Low		LSCAN-MR
1272 / 5	-	Engine Ignition Coil #5	Open Circuit		LSCAN-MR
1273 / 3	-	Engine Ignition Coil #6	Circuit High		LSCAN-MR

9. Fault codes

ADM3 fault code (J1939) SPN / FMI	ADM3 fault code (K-line)	Fault location	Fault description	Remedial action	Pin
1273 / 4	-	Engine Ignition Coil #6	Circuit Low		LSCAN-MR
1273 / 5	-	Engine Ignition Coil #6	Open Circuit		LSCAN-MR
1387 / 2	-	Reductant Pressure Sensor	Circuit Range/Performance		LSCAN-MR
1387 / 3	-	Reductant Pressure Sensor	Circuit High		LSCAN-MR
1387 / 4	-	Reductant Pressure Sensor	Circuit Low		LSCAN-MR
1390 / 0	-	Engine Fuel Valve 1 Inlet Absolute Pressure	Above Measuring Range		LSCAN-MR
1390 / 1	-	Engine Fuel Valve 1 Inlet Absolute Pressure	Below Measuring Range		LSCAN-MR
1390 / 17	-	Engine Fuel Valve 1 Inlet Absolute Pressure	Too Low		LSCAN-MR
1623 / 9	19009	Tachograph Output Shaft Speed	Abnormal Update Rate		CAN-J1939
1623 / 19	19019	Tachograph Output Shaft Speed	Received Network Data in Error		CAN-J1939
1624 / 9	19109	Tachograph Vehicle Speed	Abnormal Update Rate		CAN-J1939
1624 / 19	19119	Tachograph Vehicle Speed	Received Network Data in Error		CAN-J1939
1633 / 9	19209	Cruise Control Pause Switch	Abnormal Update Rate		CAN-J1939
1633 / 14	19214	Cruise Control Pause Switch	Plausibility Check Failed (Check Stalk Switch Wiring)	- Check wiring of stalk switch - Check parameter 13/37	18/06 and 12/07
1633 / 19	19219	Cruise Control Pause Switch	Received Network Data in Error		CAN-J1939
1636 / 3	-	Ambient Air Combi Sensor, Part Temperature	Circuit High		LSCAN-MR
1636 / 4	-	Ambient Air Combi Sensor, Part Temperature	Circuit Low		LSCAN-MR
1695 / 0	-	Engine Exhaust Gas Oxygen Sensor (Lambda Sensor) Fueling Correction	Control Deviation Too High		LSCAN-MR
1695 / 2	-	Engine Exhaust Gas Oxygen Sensor (Lambda Sensor) Fueling Correction	Drift Not Plausible		LSCAN-MR
1716 / 9	19309	Retarder Selection, non-engine	Abnormal Update Rate		CAN-J1939
1716 / 19	19319	Retarder Selection, non-engine	Received Network Data in Error		CAN-J1939
1761 / 1	-	Reductant Level	Level Low		LSCAN-MR
1761 / 3	-	Reductant Level Sensor	Circuit High		LSCAN-MR
1761 / 4	-	Reductant Level Sensor	Circuit Low		LSCAN-MR
1908 / 3	-	SCR Air Pressure Shut-Off Valve Solenoid	Circuit High		LSCAN-MR
1908 / 4	-	SCR Air Pressure Shut-Off Valve Solenoid	Circuit Low		LSCAN-MR
1908 / 5	-	SCR Air Pressure Shut-Off Valve Solenoid	Circuit Open		LSCAN-MR
2436 / 9	-	Generator Speed Sensing	Signal-Timeout		LSCAN-MR

ADM3 fault code (J1939) SPN / FMI	ADM3 fault code (K-line)	Fault location	Fault description	Remedial action	Pin
2791 / 0	-	Exhaust Gas Recirculation	Temperature Sensor Circuit High		LSCAN-MR
2791 / 1	-	Exhaust Gas Recirculation	Temperature Sensor Circuit Low		LSCAN-MR
2791 / 2	-	Exhaust Gas Recirculation	System Performance, Temperature Diagnosis		LSCAN-MR
2791 / 7	-	Exhaust Gas Recirculation	System Performance, Universal Control Error		LSCAN-MR
2791 / 12	-	Exhaust Gas Recirculation	Temperature Too High/Too Low		LSCAN-MR
2797 / 3	-	Engine Injector Group 1	Circuit High		LSCAN-MR
2797 / 4	-	Engine Injector Group 1	Circuit Low		LSCAN-MR
2797 / 5	-	Engine Injector Group 1	Open Circuit		LSCAN-MR
2797 / 9	-	Engine Injector Group 1, Cylinder Contribution/Balance	Timeout		LSCAN-MR
2798 / 3	-	Engine Injector Group 2	Circuit High		LSCAN-MR
2798 / 4	-	Engine Injector Group 2	Circuit Low		LSCAN-MR
2798 / 5	-	Engine Injector Group 2	Open Circuit		LSCAN-MR
3031 / 3	-	Reductant Tank Temperature Sensor	Circuit High		LSCAN-MR
3031 / 4	-	Reductant Tank Temperature Sensor	Circuit Low		LSCAN-MR
3031 / 7	-	Reductant Tank Temperature Sensor	Circuit		LSCAN-MR
3050 / 7	-	NOx Emission SCR Catalyst	SCR Catalyst Error		LSCAN-MR
3050 / 13	-	SCR System Calibration	Calibration Error		LSCAN-MR
3217 / 0	-	Aftertreatment 1 Intake %O2 (Lambda Sensor)	Above Measuring Range		LSCAN-MR
3217 / 1	-	Aftertreatment 1 Intake %O2 (Lambda Sensor)	Below Measuring Range		LSCAN-MR
3217 / 2	-	Aftertreatment 1 Intake %O2 (Lambda Sensor)	Not Plausible		LSCAN-MR
3219 / 1	-	NOx Sensor	Operation Temperature Not Reached		LSCAN-MR
3220 / 9	-	NOx Concentration	Lost Message		LSCAN-MR
3222 / 0	-	Aftertreatment 1 Intake Gas Sensor (Lambda Sensor) Heater Preliminary FMI	Above Measuring Range		LSCAN-MR
3222 / 1	-	Aftertreatment 1 Intake Gas Sensor (Lambda Sensor) Heater Preliminary FMI	Below Measuring Range		LSCAN-MR
3222 / 2	-	Aftertreatment 1 Intake Gas Sensor (Lambda Sensor) Heater Preliminary FMI	Measuring Range Not Plausible		LSCAN-MR
3224 / 3	-	NOx Sensor	Circuit High (Bank 1)		LSCAN-MR
3224 / 4	-	NOx Sensor	Circuit Low (Bank 1)		LSCAN-MR

9. Fault codes

ADM3 fault code (J1939) SPN / FMI	ADM3 fault code (K-line)	Fault location	Fault description	Remedial action	Pin
3224 / 16	-	NOx Emission	Level 2 Exceeded		LSCAN-MR
3226 / 15	-	NOx Emission	Increased Raw Emission		LSCAN-MR
3234 / 2	-	NOx Sensor (Bank 1)	Circuit Range/Performance		LSCAN-MR
3234 / 12	-	NOx Emission NOx Sensor	Sensor Error		LSCAN-MR
3234 / 13	-	NOx Sensor	Sensor Readiness Error		LSCAN-MR
3242 / 3	-	Diesel Oxidation Catalyst Inlet Temperature Sensor	Circuit High		LSCAN-MR
3242 / 4	-	Diesel Oxidation Catalyst Inlet Temperature Sensor	Circuit Low		LSCAN-MR
3246 / 1	-	Diesel Particulate Filter Operation Temperature	Temperature Not Reached		LSCAN-MR
3250 / 3	-	Diesel Oxidation Catalyst Outlet Temperature Sensor	Circuit High		LSCAN-MR
3250 / 4	-	Diesel Oxidation Catalyst Outlet Temperature Sensor	Circuit Low		LSCAN-MR
3251 / 0	-	Diesel Particulate Filter Differential Pressure	Pressure Too High		LSCAN-MR
3251 / 1	-	Diesel Particulate Filter Differential Pressure	Pressure Too Low		LSCAN-MR
3251 / 7	-	Diesel Particulate Filter	Component Not Present		LSCAN-MR
3251 / 15	-	Diesel Particulate Filter Regeneration	Regeneration Insufficient		LSCAN-MR
3361 / 3	-	Reductant Injector (Bank 1 Unit 1), Prop. Valve 7	Circuit High		LSCAN-MR
3361 / 4	-	Reductant Injector (Bank 1 Unit 1), Prop. Valve 7	Circuit Low		LSCAN-MR
3361 / 5	-	Reductant Injector (Bank 1 Unit 1), Prop. Valve 7	Circuit / Open		LSCAN-MR
3363 / 3	-	Reductant Tank Heating Solenoid Valve	Circuit High		LSCAN-MR
3363 / 4	-	Reductant Tank Heating Solenoid Valve	Circuit Low		LSCAN-MR
3363 / 5	-	Reductant Tank Heating Solenoid Valve	Circuit Open		LSCAN-MR
3363 / 7	-	Prop. Valve 8, Reductant Tank Heating Solenoid Valve	Circuit, Component Defective		LSCAN-MR
3464 / 2	-	Intake Throttle Highside Transistor	Control Module Performance		LSCAN-MR
3464 / 3	-	Intake Throttle Direction Signal	Circuit High		LSCAN-MR
3464 / 4	-	Intake Throttle Direction Signal	Circuit Low		LSCAN-MR
3464 / 6	-	Intake Throttle Direction Signal	Command Current Too High		LSCAN-MR
3465 / 3	-	Intake Throttle	Circuit Open		LSCAN-MR
3465 / 4	-	Intake Throttle	Circuit Low		LSCAN-MR
3465 / 5	-	Intake Throttle	Circuit High		LSCAN-MR
3485 / 2	-	Reductant Injection Air Pressure Sensor	Circuit Range/Performance		LSCAN-MR

ADM3 fault code (J1939) SPN / FMI	ADM3 fault code (K-line)	Fault location	Fault description	Remedial action	Pin
3485 / 3	-	Reductant Injection Air Pressure Sensor	Circuit High		LSCAN-MR
3485 / 4	-	Reductant Injection Air Pressure Sensor	Circuit Low		LSCAN-MR
3509 / 2	-	5V Output Reference Voltage 1	Voltage Too High/Too Low		LSCAN-MR
3510 / 2	-	5V Output Reference Voltage 2	Voltage Too High/Too Low		LSCAN-MR
3511 / 5	-	Sensor Reference Voltage "A"	Circuit Open		LSCAN-MR
3512 / 5	-	Sensor Reference Voltage "B"	Circuit Open		LSCAN-MR
3513 / 5	-	Sensor Reference Voltage "C"	Circuit Open		LSCAN-MR
3515 / 3	-	Reductant Temperature Sensor	Circuit High Input		LSCAN-MR
3515 / 4	-	Reductant Temperature Sensor	Circuit Low Input		LSCAN-MR
3516 / 1	-	NOx Emission Reductant Dosing	Insufficient Reductant Dosing		LSCAN-MR
3516 / 14	-	NOx Emission Reductant Dosing	Reductant Quality/Insufficient Reductant Dosing/SCR Catalyst Error		LSCAN-MR
3516 / 18	-	NOx Emission Reductant Dosing	Reductant Quality/Insufficient Reductant Dosing		LSCAN-MR
3520 / 18	-	NOx Emission Reductant	Reductant Quality		LSCAN-MR
3597 / 2	-	Proportional Valve Bank 1	Control Module Performance		LSCAN-MR
3597 / 3	-	Proportional Valve Bank 1	Circuit High		LSCAN-MR
3597 / 4	-	Proportional Valve Bank 1	Circuit Low		LSCAN-MR
3605 / 3	-	Coolant Pump Control	Circuit High		LSCAN-MR
3605 / 4	-	Coolant Pump Control	Circuit Low		LSCAN-MR
3605 / 5	-	Coolant Pump Control	Circuit Open		LSCAN-MR
3609 / 2	-	Diesel Particulate Filter Inlet Pressure Sensor	Circuit Range/Performance		LSCAN-MR
3609 / 3	-	Diesel Particulate Filter Inlet Pressure Sensor	Circuit High		LSCAN-MR
3609 / 4	-	Diesel Particulate Filter Inlet Pressure Sensor	Circuit Low		LSCAN-MR
3610 / 2	-	Diesel Particulate Filter Outlet Pressure Sensor	Circuit Range/Performance		LSCAN-MR
3610 / 3	-	Diesel Particulate Filter Outlet Pressure Sensor	Circuit High		LSCAN-MR
3610 / 4	-	Diesel Particulate Filter Outlet Pressure Sensor	Circuit Low		LSCAN-MR
3673 / 0	-	Engine Throttle Position 2	Above Measuring Range		LSCAN-MR
3673 / 1	-	Engine Throttle Position 2	Below Measuring Range		LSCAN-MR
3673 / 2	-	Engine Throttle Position 2	Measuring Range Not Plausible		LSCAN-MR

9. Fault codes

ADM3 fault code (J1939) SPN / FMI	ADM3 fault code (K-line)	Fault location	Fault description	Remedial action	Pin
3826 / 0	-	Average Reductant Consumption	Consumption Too High		LSCAN-MR
3826 / 1	-	Average Reductant Consumption	Consumption Too Low		LSCAN-MR
3828 / 0	-	Current Reductant Consumption	Consumption Too High		LSCAN-MR
3828 / 1	-	Current Reductant Consumption	Consumption Too Low		LSCAN-MR
4332 / 12	-	Aftertreatment 1 SCR System State	Control Module Performance		LSCAN-MR
4334 / 7	-	SCR Dosing Unit	Air Route Plugged		LSCAN-MR
4334 / 10	-	Reductant Pressure System	Pressure Decrease Too Low (Shut Off Sequence)		LSCAN-MR
4334 / 12	-	SCR Dosing Unit	Pressure Route Plugged		LSCAN-MR
4334 / 18	-	Reductant Pressure System	Reductant Pressure Too Low		LSCAN-MR
4335 / 0	-	SCR Air Pressure System	Pressure Too High		LSCAN-MR
4335 / 1	-	SCR Air Pressure System	Pressure Too Low		LSCAN-MR
4335 / 7	-	SCR Air Pressure System	Missing Air Supply		LSCAN-MR
4335 / 14	-	SCR Air Pressure System	Draining Pressure Pipe Not Performed		LSCAN-MR
4336 / 3	-	SCR Air Pressure Control Valve Solenoid	Circuit Low		LSCAN-MR
4336 / 4	-	SCR Air Pressure Control Valve Solenoid	Circuit High		LSCAN-MR
4336 / 5	-	SCR Air Pressure Control Valve Solenoid	Circuit Open		LSCAN-MR
4354 / 3	-	SCR Reductant Pipe Heating	Circuit High		LSCAN-MR
4354 / 4	-	SCR Reductant Pipe Heating	Circuit Low		LSCAN-MR
4354 / 5	-	SCR Reductant Pipe Heating	Circuit Open		LSCAN-MR
4354 / 7	-	SCR Reductant Pipe Heating	Circuit		LSCAN-MR
4360 / 0	-	SCR Catalyst Temperature Before Catalyst	Temperature Too High		LSCAN-MR
4360 / 2	-	Catalyst Temperature Sensors	Range/Performance		LSCAN-MR
4360 / 15	-	SCR Catalyst Temperature	Level 1 Exceeded		LSCAN-MR
4360 / 16	-	SCR Catalyst Temperature	Level 2 Exceeded		LSCAN-MR
4363 / 0	-	SCR Catalyst Temperature Behind Catalyst	Temperature Too High		LSCAN-MR
4364 / 15	-	NOx Emission	Level 1 Exceeded		LSCAN-MR
4364 / 16	-	NOx Emission	Level 2 Exceeded		LSCAN-MR
4375 / 0	-	Reductant Pressure System Pump	Current Too High		LSCAN-MR
4375 / 3	-	Reductant Supply Control	Curcuit High		LSCAN-MR

ADM3 fault code (J1939) SPN / FMI	ADM3 fault code (K-line)	Fault location	Fault description	Remedial action	Pin
4375 / 4	-	Reductant Supply Control	Curcuit Low		LSCAN-MR
4375 / 5	-	Reductant Supply Control	Curcuit Open		LSCAN-MR
4794 / 14	-	Aftertreatment 1 SCR Catalyst System	Component Not Present		LSCAN-MR
4809 / 3	-	Catalyst Temperature Sensor (Bank 1 Sensor 1)	Circuit High Input		LSCAN-MR
4809 / 4	-	Catalyst Temperature Sensor (Bank 1 Sensor 1)	Circuit Low Input		LSCAN-MR
4810 / 3	-	Catalyst Temperature Sensor (Bank 1 Sensor 2)	Circuit High		LSCAN-MR
4810 / 4	-	Catalyst Temperature Sensor (Bank 1 Sensor 2)	Circuit Low		LSCAN-MR
520192 / 9	19409	Engine Start Stop Signals	Abnormal Update Rate		CAN-J1939
520192 / 19	19419	Engine Start Stop Signals	Received Network Data in Error		CAN-J1939
520230 / 0	-	SCR Pressure Accumulator Bubble Pressure	Pressure Too High		LSCAN-MR
520230 / 2	-	SCR Pressure Accumulator Bubble Pressure	Pressure Outside Range		LSCAN-MR
520258 / 7	-	SCRT System Component	Component Not Present		LSCAN-MR
520259 / 2	-	SCRT Temperature Sensors Pair A	Circuit Range/Performance		LSCAN-MR
520260 / 2	-	SCRT Temperature Sensors Pair B	Circuit Range/Performance		LSCAN-MR
520262 / 14	-	SCR System EGA	Disabled Mannheim- or Wörth-Function		LSCAN-MR
520263 / 9	-	Automatic Compression Detection Function	Timeout		LSCAN-MR
520263 / 14	-	Automatic Compression Detection Function	Cancelling		LSCAN-MR

9.2. Fault codes listed by K-line code

ADM3 fault code (K-line)	ADM3 fault code (J1939) SPN / FMI	Fault location	Fault description
10003	1072 / 3	Decompression Brake Valve (MBR_KD)	Open Circuit
10004	1072 / 4	Decompression Brake Valve (MBR_KD)	Short Circuit to Ground
10103	84 / 3	Vehicle Speed (C3 or J1939)	Open Circuit
10109	84 / 9	Vehicle Speed (C3 or J1939)	Abnormal Update Rate
10114	84 / 14	Vehicle Speed (C3 or J1939)	Signal Not Plausible
10119	84 / 19	Vehicle Speed (C3 or J1939)	Received Network Data in Error
10200	91 / 0	Accelerator Pedal (AFPS or J1939)	Not Adjusted
10203	91 / 3	Accelerator Pedal (AFPS or J1939)	Voltage too High
10204	91 / 4	Accelerator Pedal (AFPS or J1939)	Voltage too Low
10209	91 / 9	Accelerator Pedal (AFPS or J1939)	Abnormal Update Rate
10219	91 / 19	Accelerator Pedal (AFPS or J1939)	Received Network Data in Error
10400	98 / 0	Oil Level (from PLD/MR2)	Oil Level too High
10401	98 / 1	Oil Level (from PLD/MR2)	Low Oil Level
10414	98 / 14	Oil Level (from PLD/MR2)	Oil Level too Low
10501	100 / 1	Oil Pressure (from PLD/MR2)	Low Oil Pressure
10514	100 / 14	Oil Pressure (from PLD/MR2)	Oil Pressure too Low
10800	107 / 0	Air Filter Sensor (LF_SE)	Differential Pressure too High
10803	107 / 3	Air Filter Sensor (LF_SE)	Open Circuit
10804	107 / 4	Air Filter Sensor (LF_SE)	Short Circuit to Ground
10914	110 / 14	Coolant Temperature (from PLD/MR2)	Coolant Temperature too High
11001	111 / 1	Coolant Level Sensor (KW_SE)	Low Coolant Level
11003	111 / 3	Coolant Level Sensor (KW_SE)	Open Circuit
11004	111 / 4	Coolant Level Sensor (KW_SE)	Short Circuit to Ground
11014	111 / 14	Coolant Level Sensor (KW_SE)	Coolant Level too Low
11100	158 / 0	Battery Voltage Switched (Terminal 15)	Over Voltage
11101	158 / 1	Battery Voltage Switched (Terminal 15)	Under Voltage
11701	558 / 1	Accelerator Pedal Idle Switch (GAS1 + GAS2 or J1939)	Both Signals Equal but Should not
11705	558 / 5	Accelerator Pedal Idle Switch (GAS1 + GAS2 or J1939)	Both Switches Open Circuit
11709	558 / 9	Accelerator Pedal Idle Switch (GAS1 + GAS2 or J1939)	Abnormal Update Rate
11712	558 / 12	Accelerator Pedal Idle Switch (GAS1 + GAS2 or J1939)	Both Switches Closed
11719	558 / 19	Accelerator Pedal Idle Switch (GAS1 + GAS2 or J1939)	Received Network Data in Error
11809	599 / 9	Cruise Control Switch CC- (Set + Coast)	Abnormal Update Rate (Set Switch)
11812	599 / 12	Cruise Control Switch CC- (Set + Coast)	Both Switches CC- and CC+ Closed
11814	599 / 14	Cruise Control Switch CC- (Set + Coast)	Plausibility Check Failed (Check Stalk Switch Wiring)
11819	599 / 19	Cruise Control Switch CC- (Set + Coast)	Received Network Data in Error
11909	601 / 9	Cruise Control Switch CC+ (Res + Acc)	Abnormal Update Rate (Resume Switch)
11912	601 / 12	Cruise Control Switch CC+ (Res + Acc)	Both Switches CC+ and CC- closed
11914	601 / 14	Cruise Control Switch CC+ (Res + Acc)	Plausibility Check Failed (Check Stalk Switch Wiring)
11919	601 / 19	Cruise Control Switch CC+ (Res + Acc)	Received Network Data in Error
12002	609 / 2	PLD/MR2 Error	Unknown Cause
12103	620 / 3	Supply Analog Accelerator Pedal (AFP+)	Voltage too High
12104	620 / 4	Supply Analog Accelerator Pedal (AFP+)	Voltage too Low
12202	625 / 2	CAN Link ADM3 – PLD/MR2	No Communication with PLD/MR2
13303	677 / 3	Output Relay 1 (REL 1)	Open Circuit

ADM3 fault code (K-line)	ADM3 fault code (J1939) SPN / FMI	Fault location	Fault description
13304	677 / 4	Output Relay 1 (REL 1)	Short Circuit to Ground
13900	730 / 0	Output Relay 2 (REL 2)	Grid Heater: No Increasing Boost Temperature After Activation
13901	730 / 1	Output Relay 2 (REL 2)	Grid Heater: Relay Permanently Closed
13902	730 / 2	Output Relay 2 (REL 2)	Grid Heater: Relay Permanently Open
13903	730 / 3	Output Relay 2 (REL 2)	Voltage too High when Activated
13904	730 / 4	Output Relay 2 (REL 2)	Voltage too Low when Activated
14003	729 / 3	Intake Air Heater (MBR_KD)	Open Circuit
14004	729 / 4	Intake Air Heater (MBR_KD)	Short Circuit to Ground
14202	974 / 2	Remote Throttle Pedal (HFG)	Supply Voltage Out of Range (Pin HFG+)
14203	974 / 3	Remote Throttle Pedal (HFG)	Voltage too High
14204	974 / 4	Remote Throttle Pedal (HFG)	Voltage too Low
14403	1004 / 3	Output Relay 4 (REL 4)	Open circuit
14404	1004 / 4	Output Relay 4 (REL 4)	Short Circuit to Ground
14503	1005 / 3	Output PWM Pedal Supply or Transmission (FP+)	Open Circuit
14504	1005 / 4	Output PWM Pedal Supply or Transmission (FP+)	Short Circuit to Ground
14603	1074 / 3	Exhaust Brake Valve (MBR_BK)	Open Circuit
14604	1074 / 4	Exhaust Brake Valve (MBR_BK)	Short Circuit to Ground
14902	639 / 2	SAE J1939 Interface	At Least One J1939 Message is Missing
15001	1015 / 1	PWM Accelerator Pedal (PWM FFG)	No Supply Voltage at Pin FP+
15003	1015 / 3	PWM Accelerator Pedal (PWM FFG)	No Signal at Path 2 (GAS2)
15004	1015 / 4	PWM Accelerator Pedal (PWM FFG)	No Signal at Path 1 (GAS1)
15005	1015 / 5	PWM Accelerator Pedal (PWM FFG)	Not Adjusted
15006	1015 / 6	PWM Accelerator Pedal (PWM FFG)	Idle Position Out of Adjusted Range
15007	1015 / 7	PWM Accelerator Pedal (PWM FFG)	Out of Adjusted Range
16609	171 / 9	Ambient Air Temperature	Abnormal Update Rate
16619	171 / 19	Ambient Air Temperature	Received Network Data in Error
17309	69 / 9	Two Speed Axle Switch	Abnormal Update Rate
17319	69 / 19	Two Speed Axle Switch	Received Network Data in Error
17409	70 / 9	Parking Brake Switch	Abnormal Update Rate
17419	70 / 19	Parking Brake Switch	Received Network Data in Error
17509	96 / 9	Fuel Level	Abnormal Update Rate
17519	96 / 19	Fuel Level	Received Network Data in Error
17609	161 / 9	Transmission Input Shaft Speed	Abnormal Update Rate
17619	161 / 19	Transmission Input Shaft Speed	Received Network Data in Error
17709	191 / 9	Transmission Output Shaft Speed	Abnormal Update Rate
17719	191 / 19	Transmission Output Shaft Speed	Received Network Data in Error
17809	523 / 9	Transmission Current Gear	Abnormal Update Rate
17819	523 / 19	Transmission Current Gear	Received Network Data in Error
17909	524 / 9	Transmission Selected Gear	Abnormal Update Rate
17919	524 / 19	Transmission Selected Gear	Received Network Data in Error
18009	559 / 9	Accelerator Pedal Kickdown Switch	Abnormal Update Rate
18019	559 / 19	Accelerator Pedal Kickdown Switch	Received Network Data in Error
18109	573 / 9	Transmission Torque Converter Lockup Engaged	Abnormal Update Rate
18119	573 / 19	Transmission Torque Converter Lockup Engaged	Received Network Data in Error
18209	574 / 9	Transmission Shift in Process	Abnormal Update Rate
18219	574 / 19	Transmission Shift in Process	Received Network Data in Error
18309	596 / 9	Cruise Control Enable Switch	Abnormal Update Rate
18319	596 / 19	Cruise Control Enable Switch	Received Network Data in Error
18409	597 / 9	Brake Switch	Abnormal Update Rate

9. Fault codes

ADM3 fault code (K-line)	ADM3 fault code (J1939) SPN / FMI	Fault location	Fault description
18419	597 / 19	Brake Switch	Received Network Data in Error
18509	598 / 9	Clutch Switch	Abnormal Update Rate
18519	598 / 19	Clutch Switch	Received Network Data in Error
18609	600 / 9	Cruise Control Coast (Decelerate) Switch	Abnormal Update Rate
18619	600 / 19	Cruise Control Coast (Decelerate) Switch	Received Network Data in Error
18709	602 / 9	Cruise Control Accelerate Switch	Abnormal Update Rate
18719	602 / 19	Cruise Control Accelerate Switch	Received Network Data in Error
18809	904 / 9	Front Axle Speed	Abnormal Update Rate
18819	904 / 19	Front Axle Speed	Received Network Data in Error
18909	973 / 9	Engine Retarder Selection	Abnormal Update Rate
18919	973 / 19	Engine Retarder Selection	Received Network Data in Error
19009	1623 / 9	Tachograph Output Shaft Speed	Abnormal Update Rate
19019	1623 / 19	Tachograph Output Shaft Speed	Received Network Data in Error
19109	1624 / 9	Tachograph Vehicle Speed	Abnormal Update Rate
19119	1624 / 19	Tachograph Vehicle Speed	Received Network Data in Error
19209	1633 / 9	Cruise Control Pause Switch	Abnormal Update Rate
19214	1633 / 14	Cruise Control Pause Switch	Plausibility Check Failed (Check Stalk Switch Wiring)
19219	1633 / 19	Cruise Control Pause Switch	Received Network Data in Error
19309	1716 / 9	Retarder Selection, non-engine	Abnormal Update Rate
19319	1716 / 19	Retarder Selection, non-engine	Received Network Data in Error
19409	520192 / 9	Engine Start Stop Signals	Abnormal Update Rate
19419	520192 / 19	Engine Start Stop Signals	Received Network Data in Error