AD00.19-N-9019AA	Fault code list for control unit of engine control (MR)	9.2.04

MODELS 950.0 /1 /2 /3, 952.0 /1 /2 /3, 953.1 /3, 954.0 /1 /2

Fault code	Fault code description
0100	CAN-H connection to FR drive control defective
0101	CAN-L connection to FR drive control defective
0102	Data from control unit for FR drive control is faulty
0104	CAN connection to FR drive control defective
0149	CAN parameterizing error
0308	Crankshaft position sensor has a short circuit to ground
0309	Crankshaft position sensor has an open circuit
0310	Crankshaft position sensor, signal too low
0311	Crankshaft position sensor, assignment of crankshaft and camshaft signal is faulty.
0312	Crankshaft position sensor, no signal
0313	Crankshaft position sensor has incorrect polarity.
0408	Camshaft position sensor has a short circuit to ground
0409	Camshaft position sensor has an open circuit
0412	Camshaft position sensor, no signal
0413	Camshaft position sensor incorrect polarity
0530	Engine overspeed
1015	Oil temperature sensor, measuring range exceeded (short circuit to positive, open circuit).
1016	Oil temperature sensor, measuring range undershot (short circuit to ground).
1115	Fuel temperature sensor, measuring range exceeded (short circuit to positive, open circuit)
1116	Fuel temperature sensor, measuring range undershot (short circuit to ground)
1215	Charge air temperature sensor, measuring range exceeded (short circuit to positive, open circuit)
1216	Charge air temperature sensor has dropped below measuring range (short circuit to ground).
1315	Atmospheric pressure sensor, measuring range exceeded (short circuit to positive, open circuit)
1316	Atmospheric pressure sensor has dropped below measuring range (short circuit to ground).
1415	Boost pressure sensor, measuring range exceeded (short circuit to positive, open circuit).
1416	Boost pressure sensor has dropped below measuring range (short circuit to ground).
1417	Boost pressure sensor, readout faulty
1515	Coolant temperature sensor, measuring range exceeded (short circuit to positive, open circuit).
1516	Coolant temperature sensor has dropped below measuring range (short circuit to ground).
1615	Oil pressure sensor, measuring range exceeded (short circuit to positive, open circuit).
1616	Oil pressure sensor has dropped below measuring range (short circuit to ground).
1617	Oil pressure sensor, measured value implausible
1818	Boost circuit faulty
1820	Boost pressure too high
1822	Boost air temperature exceeded
1873	Turbocharger speed has constant-velocity trouble.
1875	Charge pressure deviation is too large.
1876	The charge pressure for braking operation is not reached.
2020	Oil pressure is too low.
2026	The engine oil level is too high or too low.
2122	Coolant temperature is too high.
2219	Circuit 15 of control unit for MR or FR has an open circuit.
2319	Circuit 50 of control unit for MR or FR has an open circuit.
2415	The differential fuel pressure sensor has an open circuit.
2416	The differential fuel pressure sensor has a short circuit to positive, short circuit to ground.
2509	Oil level sensor has an open circuit
2515	Oil level sensor has short circuit to positive, measuring range exceeded
2516	Oil level sensor has short circuit to ground, measuring range undershot
2517	Oil level sensor, readout implausible
2612	The rpm sensor of the turbocharger has an open circuit, short circuit to positive, short circuit to ground.
2712	The rpm sensor of the turbocharger has an open circuit, short circuit to positive, short circuit to ground. (Turborcharger2)

3015	Fuel pressure sensor, measuring range exceeded (short circuit to positive, open circuit)
3016	Fuel pressure sensor has dropped below measuring range (short circuit to ground).
4024	Internal fault in control unit
4034	Internal fault in control unit
4035	Internal fault in control unit
4036	Internal fault in control unit
4037	Internal fault in control unit
4038	Internal fault in control unit
4039	Starter actuation (output stage) faulty
4040	Internal fault in control unit
4041	Internal fault in control unit
4047	Internal fault in control unit
4048	Internal fault in control unit
4049	Invalid parameterization for proportioning valves
4050	Internal fault in control unit
4051	Internal fault in control unit
4052	Internal fault in control unit
4053	Internal fault in control unit
4054	Internal fault in control unit
4056	Internal fault in control unit
4058	The data record in the control unit for MR engine control (PLD) was manipulated.
4805	A unit pump of bank 1 has a short circuit to positive.
4806	The return of the unit pumps of bank 1 has a short circuit to ground.
4905	A unit pump of bank 2 has a short circuit to positive.
4906	The return of the unit pumps of bank 2 has a short circuit to ground.
5026	Unit pump for cylinder 1: valve no impact
5027	Unit pump for cylinder 1: actuation fault
5028	Unit pump for cylinder 1: short circuit
5126	Unit pump for cylinder 2: valve no impact
5127	Unit pump for cylinder 2: actuation fault
5128	Unit pump for cylinder 2: short circuit
5226	Unit pump for cylinder 3: valve no impact
5227	Unit pump for cylinder 3: actuation fault
5228	Unit pump for cylinder 3: short circuit
5326	Unit pump for cylinder 4: valve no impact
5327	Unit pump for cylinder 4: actuation fault
5328	Unit pump for cylinder 4: short circuit
5426	Unit pump for cylinder 5: valve no impact
5427	Unit pump for cylinder 5: actuation fault
5428	Unit pump for cylinder 5: short circuit
5526	Unit pump for cylinder 6: valve no impact
5527	Unit pump for cylinder 6: actuation fault
5528	Unit pump for cylinder 6: short circuit
5626	Unit pump for cylinder 7: valve no impact
5627	Unit pump for cylinder 7: actuation fault
5628	Unit pump for cylinder 7: short circuit
5726	Unit pump for cylinder 8: valve no impact
5727	Unit pump for cylinder 8: actuation fault
5728	Unit pump for cylinder 8: short circuit
6409	The heater flange has an open circuit.
6506	The diagnostic line of the oil separator has a short circuit to ground.
6564	The diagnostic line of the oil separator has an open circuit or short circuit to positive.
7006	Solenoid valve 1: turbocharger adjustment (short circuit to ground)
7007	Proportioning valve 1 has a short circuit to positive.
7009	Solenoid valve 1: turbocharger adjustment (open circuit)
7106	Solenoid valve 3: fan stage 1 has a short circuit to ground.
7107	Proportioning valve 3 has a short circuit to positive.
7109	Solenoid valve 3: fan stage 1 has an open circuit.

7112	Solenoid valve 3: fan drive, no fan speed
7206	Solenoid valve 4: fan stage 2 has a short circuit to ground.
7207	Proportioning valve 4 has a short circuit to positive.
7209	Solenoid valve 4: fan stage 2 has an open circuit.
7305	Solenoid valve 2: decompression valve brake has a short circuit to positive.
7306	solenoid valve 2: decompression valve brake has a short circuit to ground.
7307	Proportioning valve 2 has a short circuit to positive.
7309	Proportioning valve 2 has an open circuit.
7317	Solenoid valve 2: decompression valve brake has an open circuit or short circuit to ground.
7405	Proportioning valve 5 has a short circuit to positive.
7408	Proportioning valve 5 has a short circuit to ground.
7542	Battery voltage too high
7543	Battery voltage too low
7609	Proportioning valve 6 has an open circuit.
7705	Proportioning valve bank 1 has a short circuit to positive.
7708	Proportioning valve bank 1 has a short circuit to ground.
7805	Proportioning valve bank 2 has a short circuit to positive.
7808	Proportioning valve bank 2 has a short circuit to ground.
8005	Circuit 50 at the connecting relay (short circuit to positive)
8008	Circuit 50 at the connecting relay (short circuit to ground)
8009	Circuit 50 at the connecting relay (open circuit)
8033	Connecting relay defective
8039	Starter actuation (output stage) faulty
8086	Starter does not engage
9044	Unit pump cylinder 1: smooth idle control within limits
9045	Unit pump cylinder 1: single cylinder adjustment within limits
9144	Unit pump cylinder 2: smooth idle control within limits
9145	Unit pump cylinder 2: single cylinder adjustment within limits
9244	Unit pump cylinder 3: smooth idle control within limits
9245	Unit pump cylinder 3: single cylinder adjustment within limits
9344	Unit pump cylinder 4: smooth idle control within limits
9345	Unit pump cylinder 4: single cylinder adjustment within limits
9444	Unit pump cylinder 5: smooth idle control within limits
9445	Unit pump cylinder 5: single cylinder adjustment within limits
9544	Unit pump cylinder 6: smooth idle control within limits
9545	Unit pump cylinder 6: single cylinder adjustment within limits
9644	Unit pump cylinder 7: smooth idle control within limits
9645	Unit pump cylinder 7: single cylinder adjustment within limits
9744	Unit pump cylinder 8: smooth idle control within limits
9745	Unit pump cylinder 8: single cylinder adjustment within limits
9846	Single cylinder comparison aborted
9960	Too many keys
9961	Protective function of immobilizer active, control unit for MR engine control locked
9962	Immobilizer activated in MR engine control
9963	No transponder code through engine CAN bus
9964	No transponder code via terminal 50
9965	Incorrect transponder key