

This file contains information transposed from the BMW Car Club of Bulgaria forum site (Errors and omissions excluded) –

ABS 1

- 0 Unidentified Error
- 1 ABS Hydro aggregate
- 2 Throttle Valve Signal
- 3 Ignition Time Error
- 4 Rear left speed sensor faulty or ABS inlet valve
- 5 Right rear speed sensor faulty or ABS inlet valve
- 6 Right front speed sensor faulty or ABS inlet valve
- 7 Left front speed sensor faulty or ABS inlet valve
- 8 Rear left ABS valve faulty
- 9 Rear right ABS valve faulty
- 10 Front right ABS valve faulty
- 11 Front left ABS valve faulty
- 12 Gearbox intervention
- 13 Idle speed RPM increasing
- 14 Valve relay fault
- 15 ABS Back-delivery pump fault
- 16 Throttle valve reduction
- 17 Front left wheel sensor
- 18 Front left wheel sensor
- 19 Accumulator pressure limit
- 20 Front left wheel sensor or EGS intervention error
- 21 Front left wheel sensor or ABS/ASC control unit defect
- 22 Speed signal sensor faulty
- 23 Equipment error (Automatic/Manual)
- 24 Incorrect gear wheel on one of the four wheels

- 25 Line interruption – brake light switch
- 27 Idle speed feed back signal
- 30 Left rear wheel speed sensor cable
- 31 Right rear wheel speed sensor cable
- 32 Right front wheel speed sensor cable
- 33 Left front (E38/E39) or Right (E46) wheel speed sensor cable
- 34 Wheel sensor, front right or ASC switch over valve
- 35 Brake fluid level signal error
- 36 Front right wheel sensor or ignition signal error
- 37 Front right wheel sensor or ABS/ASC Control unit internal error
- 38 Gas valve adjustment error
- 39 Servo motor electrical error
- 40 Gas valve potentiometer error
- 41 Steering angle error
- 47 Fault, outlet valve, rear left
- 48 Fault, outlet valve, rear right
- 49 Wheel sensor, rear left or outlet valve front right
- 50 Wheel sensor, rear left or outlet valve front left
- 51 Fault, inlet valve, rear left
- 52 Wheel sensor rear left or inlet valve rear right
- 53 Wheel sensor rear left or inlet valve front right
- 54 Fault, inlet valve, front left
- 55 Fault, ASC shutoff valve
- 56 CAN Error (short circuit)
- 57 Throttle valve signal from the DME faulty
- 58 CAN Error (Open circuit to DME)
- 59 Fault, ASC shutoff valve
- 60 Signal, terminal 30 faulty

- 61 Central blocking
- 62 Max. ABD adjustment time
- 63 Processor fault in the control unit
- 64 Continuous control due to undefined signal interference
- 65 Wheel sensor rear right or bad feedback signal
- 66 Wheel sensor rear right or wheel speed sensor power supply
- 67 CAN Error
- 68 Wheel sensor rear right
- 69 Wheel sensor rear right
- 75 ASC indicator lamp
- 81 Inlet valve front left
- 82 Inlet valve front right
- 83 Inlet valve rear left
- 84 Inlet valve rear right
- 85 Outlet valve front left
- 86 Outlet valve front right
- 87 Outlet valve rear left
- 88 Outlet valve rear right
- 89 Power supply too low
- 90 Time limitation: passive switching
- 91 CAN Error
- 92 Pressure sensor (pre charging pump)
- 94 RPM sensor (Test)
- 95 Activation
- 96 Actuator test
- 97 ASC intake valve / Steering angle sensor
- 98 Separate valve
- 99 Electromagnetic switch over valve

- 100 Electromagnetic switch over valve
- 103 Brake light switch
- 104 Steering angle sensor
- 105 Brake light switch
- 106 Lateral acceleration sensor
- 107 RPM sensor (Gradient)
- 113 ABS/ASC feed back pump
- 115 ABS/ASC control unit internal error
- 118 Electromagnetic or mechanical influence on the wheel speed signals
- 120 Power supply voltage too high (>18V)
- 129 ABS/ASC Main relay circuit faulty
- 130 Power supply fault at the magnetic valves
- 131 Wrong current at magnetic valves
- 133 Power supply > too high
- 145 CAN chip in the ABS/ASC control unit
- 146 CAN Error
- 147 CAN Error – engine intervention
- 148 CAN Error – engine speed (RPM)
- 149 CAN Error – DME/DDE connection
- 150 CAN Error – EGS
- 151 Coding Error
- 152 DSC button
- 161 RPM sensor
- 162 RPM Signal
- 163 Lateral acceleration sensor
- 164 Lateral acceleration sensor
- 165 Pressure sensor 1
- 166 Pressure sensor 2

- 167 Pressure sensors
- 168 Pressure sensors power supply
- 177 Pre charge pump
- 178 Pre charge pump
- 180 Steering angle sensor (signal 1)
- 181 Steering angle sensor (identification)
- 182 Steering angle sensor (CAN)
- 183 Steering angle sensor (internal)
- 184 Steering angle sensor (offset)

ABS 2

- 0 Unidentified error – erase the error memory
- 2 EML interface fault – Check the connecting lines from Pins 6, 8 & 14 of the EML. If the fault cannot be located, reset the error memory and run an EGS Diagnostic check.
- 3 DME interface fault – Check control line Pin 39 to the DME. Check the size of tyres on all rims, check wheel bearing clearance, pulse wheels, rotational speed sensor (visual check for damage and dirt)
- 4 Sensor fault rear left – Check the size of tyres on all rims, check wheel bearing clearance, pulse wheels, rotational speed sensor (visual check for damage and dirt)
- 5 Sensor fault rear right -Check the size of tyres on all rims, check wheel bearing clearance, pulse wheels, rotational speed sensor (visual check for damage and dirt)
- 6 Sensor fault front right -Check the size of tyres on all rims, check wheel bearing clearance, pulse wheels, rotational speed sensor (visual check for damage and dirt)
- 7 Sensor fault front left - Check the size of tyres on all rims, check wheel bearing clearance, pulse wheels, rotational speed sensor (visual check for damage and dirt)
- 8 ABS valve fault rear left – Check the plug and socket connection on the ABS hydraulic aggregates for correct seating and corrosion. Check the wire from Pin 2 of the ABS/ASC unit to Pin 5 of the ABS hydraulic aggregate. If no fault is found, erase the stored fault codes and re-diagnose. If fault reoccurs replace the control unit.

- 9 ABS valve fault rear right – Check the plug and socket connection on the ABS hydraulic aggregates for correct seating and corrosion. Check the wire from Pin 36 of the ABS/ASC unit to Pin 7 of the ABS hydraulic aggregate. If no fault is found, erase the stored fault codes and re-diagnose. If fault reoccurs replace the control unit.
- 10 ABS valve fault front right – Check the plug and socket connection on the ABS hydraulic aggregates for correct seating and corrosion. Check the wire from Pin 22 of the ABS/ASC unit to Pin 3 of the ABS hydraulic aggregate. If no fault is found, erase the stored fault codes and re-diagnose. If fault reoccurs replace the control unit.
- 11 ABS valve fault front left – Check the plug and socket connection on the ABS hydraulic aggregates for correct seating and corrosion. Check the wire from Pin 19 of the ABS/ASC unit to Pin 1 of the ABS hydraulic aggregate. If no fault is found, erase the stored fault codes and re-diagnose. If fault reoccurs replace the control unit.
- 12 Plunger valve fault rear left – Check supply voltage on the magnetic valve is 12v. Check magnetic valve for visible damage and corrosion, if damaged replace the magnetic valve.
- 13 Plunger valve fault – Check supply voltage on the magnetic valve is 12v. Check magnetic valve for visible damage and corrosion, if damaged replace the magnetic valve.
- 14 ABS valve relay fault - Reset the fault code and test drive the vehicle before re-diagnosing. If fault code resets check the valve relay for correct seating and contacts for corrosion. Check relay operation by switching ignition on and off to ensure relay pulls in and check supply voltage at valve relay.
- 15 Rear feed pump fault - Check engine relay for correct seating and contacts for corrosion. Check ABS hydraulic aggregates earth connection and earth connection and function of pump motor.
- 16 ASC+T storage load valve fault – Check function of magnetic valve plunger on hydraulic aggregate.
- 17 Wheel sensor front/Inlet valve front left – Check connection between valve and master relay and that master relay and valve are functioning properly.
- 18 Wheel sensor outlet/valve front left - Check connection between valve and master relay and that master relay and valve are functioning properly.
- 20 Wheel sensor/inlet valve front right - Check connection between valve and master relay and that master relay and valve are functioning properly.
- 24 Wheel sensor/outlet valve front right - Check connection between valve and master relay and that master relay and valve are functioning properly.
- 33 Wheel sensor/Inlet valve rear left - Check connection between valve and master relay and that master relay and valve are functioning properly.
- 34 Wheel sensor/outlet valve rear left - Check connection between valve and master relay and that master relay and valve are functioning properly.

- 36 Inlet valve rear right
- 37 Front right wheel speed sensor
- 40 Rear output valve function
- 49 Power supply to magnetic valves
- 50 Throttle valve mechanical defect
- 56 ASC separate valve function faulty
- 65 ASC computer faulty
- 66 DME RPM signal faulty
- 68 Control unit defect – Replace ABS control unit
- 72 Internal fault – Replace ABS control unit
- 81 Rotational speed sensor front left - Check connection between rotational speed sensor and control unit for short circuits or a broken connection
- 82 Rotational speed sensor front right - Check connection between rotational speed sensor and control unit for short circuits or a broken connection
- 84 Rotational speed sensor rear left - Check connection between rotational speed sensor and control unit for short circuits or a broken connection
- 88 Rotational speed sensor rear right - Check connection between rotational speed sensor and control unit for short circuits or a broken connection
- 97 Rotational speed signal front left – Check plug and socket connections of rotational speed sensor. Check air-gap between rotational speed sensor and pulse wheel and reduce if necessary. Pulse wheel may have incorrect number of teeth or rotational speed sensor possibly defective.
- 98 Rotational speed signal front right – Check plug and socket connections of rotational speed sensor. Check air-gap between rotational speed sensor and pulse wheel and reduce if necessary. Pulse wheel may have incorrect number of teeth or rotational speed sensor possibly defective.
- 100 Rotational speed signal rear left – Check plug and socket connections of rotational speed sensor. Check air-gap between rotational speed sensor and pulse wheel and reduce if necessary. Pulse wheel may have incorrect number of teeth or rotational speed sensor possibly defective.
- 104 Rotational speed signal rear right – Check plug and socket connections of rotational speed sensor. Check air-gap between rotational speed sensor and pulse wheel and reduce if necessary. Pulse wheel may

have incorrect number of teeth or rotational speed sensor possibly defective.

- 113 Rotational speed information front left – Check plug and socket connections of rotational speed sensor. Check air-gap between rotational speed sensor and pulse wheel and reduce if necessary. Pulse wheel may have incorrect number of teeth or rotational speed sensor possibly defective.
- 114 Rotational speed information front right – Check plug and socket connections of rotational speed sensor. Check air-gap between rotational speed sensor and pulse wheel and reduce if necessary. Pulse wheel may have incorrect number of teeth or rotational speed sensor possibly defective.
- 116 Rotational speed information rear left – Check plug and socket connections of rotational speed sensor. Check air-gap between rotational speed sensor and pulse wheel and reduce if necessary. Pulse wheel may have incorrect number of teeth or rotational speed sensor possibly defective.
- 120 Rotational speed information rear right – Check plug and socket connections of rotational speed sensor. Check air-gap between rotational speed sensor and pulse wheel and reduce if necessary. Pulse wheel may have incorrect number of teeth or rotational speed sensor possibly defective.
- 129 DME connection faulty
- 130 Throttle valve potentiometer
- 132 Pedal travel sensor - Check for sensor defect short circuits and/or interruption to power supply
- 133 Valve power supply voltage too high
- 136 Fault in brake hydraulic system –Check for leaks or air in brake hydraulic system.
- 145 Failure in pump power supply – Check lines to the ABS control unit and pump motor relay. Check ABS master relay for short circuit and/or interruption to power supply. Fault may result from one or all of the above conditions.
- 146 Coding fault
- 148 Motor temperature over CAN Bus
- 152 Hydraulic pedal travel sensor – Check brake system for leaks and/or air in system. Check pedal travel sensor for intermittent contact.
- 161 Outlet valve front left or front left RPM sensor – Check inlet and outlet valve connections for tightness. Ensure that rotational speed sensors have not been mixed up and if necessary, replace outlet valve.
- 162 Outlet valve front right or front right RPM sensor – Check inlet and outlet valve connections for tightness. Ensure that rotational speed

sensors have not been mixed up and if necessary, replace outlet valve.

- 164 Outlet valve rear left or rear left RPM sensor – Check inlet and outlet valve connections for tightness. Ensure that rotational speed sensors have not been mixed up and if necessary, replace outlet valve.
- 168 Outlet valve rear right or rear right RPM sensor – Check inlet and outlet valve connections for tightness. Ensure that rotational speed sensors have not been mixed up and if necessary, replace outlet valve.
- 177 Fault valve load circuit fuse – Check ABS circuit fuses and relay
- 184 CAN Error
- 193 DME ignition signal faulty
- 255 Accumulator fault – Replace control unit.

ABS3

- 5d90 Left front wheel speed sensor; accident recognition
- 5d91 Left front wheel speed sensor; extrapolation
- 5d92 Left front wheel speed sensor; periodical control
- 5d93 Left front wheel speed sensor; accident recognition
- 5d94 Left front wheel speed sensor; long term control
- 5dA0 Right front wheel speed sensor; accident recognition
- 5dA1 Right front wheel speed sensor; Extrapolation
- 5dA2 Right front wheel speed sensor; periodical control
- 5dA3 Right front wheel speed sensor; accident recognition
- 5dA4 Right front wheel speed sensor; long term control
- 5dB0 Left rear wheel speed sensor; accident recognition
- 5dB1 Left rear wheel speed sensor; extrapolation
- 5dB2 Left rear wheel speed sensor; periodical control
- 5dB3 Left rear wheel speed sensor; accident recognition
- 5dB4 Left rear wheel speed sensor; long term control

5dC0 Right rear wheel speed sensor; accident recognition

5dC1 Right rear wheel speed sensor; extrapolation

5dC2 Right rear wheel speed sensor; periodical control

5dC3 Right rear wheel speed sensor; accident recognition

5dC4 Right rear wheel speed sensor; long term control

5dF0 Pump engine

5dF2 Internal error Valve/ECU Hardware error, ROM/RAM check

5dF4 Power Supply < 9 volts

5dF5 Control unit internal error

5dF7 Power supply > 18 volts

5e00 Tyre test active

5e01 Tyre test timeout

5e02 Tyre test gyration sensor justification error

5e03 Tyre test gyration sensor error

5e04 Tyre test lateral acceleration sensor error

5e05 Tyre test lateral acceleration sensor error and gyration sensor

5e06 Tyre test gyration sensor wrong construction

5e07 Tyre test lateral acceleration sensor error and gyration sensor wrong construction

5e08 Tyre test steering wheel sensor error

5e11 Internal error CAN Controller

5e14 CAN Timeout DME/DDE

5e15 CAN Timeout EGS

5e16 CAN Timeout Instrument Cluster

5e18 CAN DME/DDE message faulty

5e19 CAN DME/DDE

5e1A CAN DME/DDE Signal Error

5e1E CAN Timeout LWS

5e1F Steering wheel sensor; not initialized

5e59 Coding error

- 5e5B Switch pressed longer than 10 seconds or faulty
- 5e5D Brake fluid level switch
- 5e5E Brake light switch
- 5e20 Pressure sensor 1 accident recognition
- 5e21 Pressure sensor 2 accident recognition
- 5e24 Pressure sensors not plausible; pressure sensor 1 / 2 not plausible
- 5e26 Sensor power supply
- 5e2F Temperature sensor
- 5e30 Lateral acceleration sensor accident recognition
- 5e32 Lateral acceleration signal not plausible
- 5e38 Wheel speed sensor accident recognition
- 5e3C Wheel speed not plausible
- 5e40 Lateral acceleration signal not plausible, offset
- 5e43 Lateral acceleration internal error
- 5e4E DSC sensor offset check
- 5e4F Long time regulation DSC