

Carsoft 6.5

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 Check the size of tyres on all rims, check wheel bearing clearance, pulse wheels, rotational speed sensor (visual check for damage and dirt) 39 to the DME  
 + 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 fa  
+ ult 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 hydraul  
+ ic aggregates for correct seating and corrosion. Check the wire from Pin 22 of the ABS/A  
+ SC 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 hydraul  
+ ic aggregates for correct seating and corrosion. Check the wire from Pin 19 of the ABS/AS  
+ C unit to Pin 1 of the ABS hydraulic aggregate. If no fault is found, erase the stored f  
+ ault 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. Ch  
+ eck magnetic valve for visible damage and corrosion, if damaged replace the magnetic val  
+ ve.

13 Plunger valve fault - Check supply voltage on the magnetic valve is 12v. Check magnet  
+ ic 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-dia  
+ gnosing. 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 corros  
+ ion. Check ABS hydraulic aggregates earth connection and earth connection and function o  
+ f pump motor.

16 ASC+T storage load valve fault - Check function of magnetic valve plunger on hydraul  
+ ic 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 rela  
+ y and that master relay and valve are functioning properly.

20 Wheel sensor/inlet valve front right - Check connection between valve and master rela  
+ y and that master relay and valve are functioning properly.

24 Wheel sensor/outlet valve front right - Check connection between valve and master rel  
+ ay 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 senso  
+ r 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 i  
+ f necessary. Pulse wheel may have incorrect number of teeth or rotational speed sensor p  
+ ossibly 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 i  
+ f necessary. Pulse wheel may have incorrect number of teeth or rotational speed sensor p  
+ ossibly 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  
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  
5e59 Coding error  
5e5B Switch pressed longer than 10 seconds or faulty  
5e5D Brake fluid level switch  
5e5E Brake light switch