

## **DDE 5, DDE 6, DDE 6.2 and DDE 6.3**

3E90 Crankshaft RPM - No Signal  
3E91 Crankshaft RPM - Wrong Signal  
3E95 Intake air Temperature Sensor  
3EA0 Crankshaft Position Sensor  
3EA1 Crankshaft Position Sensor  
3EA5 Intake air Temperature Sensor  
3EA6 Intake air Temperature Sensor  
3EB0 RPM Calculation  
3EB5 Air flow Sensor 2  
3EB6 Air flow Sensor 2  
3EC0 Camshaft Sensor - No Signal  
3EC1 Camshaft Sensor - Wrong Signal  
3EC7 Camshaft Sensor  
3ED0 Camshaft Sensor - No Signal  
3ED1 Camshaft Sensor - Wrong Signal  
3ED5 Air Flow Sensor 2  
3ED6 Air Flow Sensor 2  
3EDC Variant Coding  
3EDD Variant Coding  
3EE0 Coolant Temperature Sensor -Short Circuit to B+ or Open  
3EE1 Coolant Temperature Sensor -Short Circuit to B-  
3EE2 Coolant Temperature Sensor  
3EE3 Coolant Temperature Sensor  
3EE5 Air Mass Flow Sensor 2  
3EE6 Air Mass Flow Sensor 2  
3EE7 Air Mass Flow Sensor 2  
3EED Power Management Closed Circuit Current  
3EF3 Coolant Temperature Sensor not Plausible  
3EF5 Intake Air Temperature Sensor 2 (HFM Reference Signal)  
3EF6 Intake Air Temperature Sensor 2 (HFM Reference Signal)  
3EF7 Intake Air Temperature Sensor 2 (HFM Reference Signal)  
3EFB Thermal Oil Level Sensor  
3EFC Thermal Oil Level Sensor  
3EFD Thermal Oil Level Sensor  
3F00 Boost Pressure Sensor -Short circuit to B+  
3F01 Boost Pressure Sensor -Short circuit to B- or Open  
3F02 Boost Pressure Sensor  
3F03 Boost Pressure Sensor -Plausibility  
3F05 MIL OFF  
3F10 Pedal Position Sensor 1

3F11 Pedal Position Sensor 1 - Short circuit to B-  
3F13 Pedal Position Sensor 1 - Potentiometer Plausibility  
3F15 MIL ON  
3F20 Pedal Position Sensor 2  
3F21 Pedal Position Sensor 2 - Short Circuit to B-  
3F23 Pedal Position Sensor 2 - Potentiometer Plausibility  
3F25 Input Air Flow Control  
3F30 Rail Pressure Sensor - Short Circuit to B+  
3F31 Rail Pressure Sensor - Short Circuit to B-  
3F35 Input Air Flow Control at Idle Speed  
3F40 Rail Pressure Sensor - Max for Compensation  
3F41 Rail Pressure Sensor - Min for Compensation  
3F47 Brake Light or Brake Light Test Switch  
3F48 Brake Light or Brake Light Test Switch  
3F50 Vehicle Speed Signal - Too High  
3F51 Vehicle Speed Signal  
3F52 Vehicle Speed Signal  
3F53 Vehicle Speed Signal  
3F60 Pedal Position Sensor Ref. VSS  
3F62 Vehicle Speed Signal from CAN  
3F67 Filling Pressure Modulator 2  
3F70 Intake Air Temperature Sensor  
3F71 Intake Air Temperature Sensor  
3F72 Intake Air Temperature Sensor  
3F77 Boost Pressure Modulator 1  
3F82 Ambient Temp Sensor  
3F87 Boost Pressure Modulator 2  
3F97 Boost Pressure Modulator 1  
3FB0 Air Flow Meter - Signal too High or Short circuit to B+  
3FB1 Air Flow Meter - Signal too Low or Short circuit to B-  
3FB5 Control Master/Slave  
3FB6 Control Master/Slave  
3FB7 Control Unit - Internal Master  
3FC0 Air Flow Meter - Deviation too High at Idle Speed  
3FD0 Air Flow Meter - Deviation too High  
3FE0 Air Flow Meter  
3FE1 Air Flow Meter  
3FF0 Air Flow Meter  
3FF1 Air Flow Meter  
4000 Fuel Temperature Sensor  
4001 Fuel Temperature Sensor  
4010 Exhaust Gas Pressure Sensor -Short Circuit to B+

4011 Exhaust Gas Pressure Sensor -Short Circuit to B-  
4020 EGT -Short Circuit to B+  
4021 EGT -Short Circuit to B-  
4030 EGT Before Cat -Short Circuit to B+  
4031 EGT Before Cat -Short Circuit to B-  
4032 Exhaust Gas Pressure Sensor  
4060 Atmospheric Pressure Sensor DDE-Short Circuit to B+  
4061 Atmospheric Pressure Sensor DDE-Short Circuit to B-  
4062 Atmospheric Pressure Sensor DDE  
4063 Atmospheric Pressure Sensor DDE-Plausibility Ref. Boost  
4072 Automatic Gearbox Switch Signal  
4080 Brake Light or Brake Light Test Switch  
4082 Brake Light or Brake Light Test Switch  
4083 Brake Light or Brake Light Test Switch  
40A1 Alternator Signal  
40E0 Alternator  
4100 AirCon Power Output  
4101 AirCon Power Output  
4102 AirCon Power Output  
4103 AirCon Power Output  
4108 Control Master/Slave  
410C Swirl Flap Actuator  
4117 Control Master/Slave  
4118 Control Master/Slave  
4120 DDE Main Relay is Switching too Late or too Early  
4121 DDE Main Relay is Switching too Late or too Early  
4125 Power Supply  
4126 Power Supply  
4130 Swirlflaps - Short Circuit to B+  
4135 Power Supply  
4136 Power Supply  
4140 Swirlflap  
4141 Swirlflaps - Short Circuit to B-  
4145 Power Supply  
4146 Power Supply  
4152 Swirlflaps - Open Circuit  
4153 Swirlflaps - Plausibility, Overtemp of Output Stage  
4155 Exhaust Flap Actuator  
4156 Exhaust Flap Actuator  
4157 Exhaust Flap Actuator  
4158 Exhaust Flap Actuator  
4160 Raise Pressure Pump - Short Circuit to B+

4161 Raise Pressure Pump - Short Circuit to B-  
4162 Raise Pressure Pump - Activation Interrupted  
4163 Raise Pressure Pump - Plausibility, Overtemp of Output Stage  
4165 DPF -Flow Resistance too High  
4166 DPF -Flow Resistance too Low  
4175 Exhaust Gas Temp Sensor before DPF  
4180 Boost Pressure Actuator - Short Circuit to B+  
4185 Exhaust Gas Temp Sensor before Cat  
4186 Exhaust Gas Temp Sensor before Cat  
4188 Exhaust Gas Temp Sensor before Cat  
4190 Boost Pressure Actuator  
4191 Boost Pressure Actuator - Short Circuit to B-  
419A Atmospheric Pressure Sensor DDE  
419B Atmospheric Pressure Sensor DDE  
41A0 Boost Pressure Actuator  
41A1 Boost Pressure Actuator - Adjustment  
41A2 Boost Pressure Actuator - Open Circuit  
41A3 Boost Pressure Actuator - Plausibility, Overtemp of Output Stage  
41A6 Message CBS Reset  
41A7 Message CBS Reset  
41AA Boost Pressure Sensor  
41AB Boost Pressure Sensor  
41B0 Exhaust Gas Recirculation -Short Circuit to B+  
41B5 Transmission Fluid Temperature Sensor  
41BA Exhaust Backpressure Sensor  
41BB Exhaust Backpressure Sensor  
41C0 Activation -Fan  
41C1 Activation -Fan- Short Circuit to B-  
41C2 Activation -Fan- Activation Interrupted  
41C3 Activation -Fan- Plausibility, Overtemp of Output Stage  
41CD Exhaust Backpressure Sensor - Plausibility  
41D0 Exhaust Gas Recirculation Regulation  
41D1 Exhaust Gas Recirculation -Short Circuit to B-  
41D5 Lambda Sensor Bias -Short Circuit to B+  
41D6 Lambda Sensor Bias -Short Circuit to B-  
41D7 Lambda Sensor Bias -Open Circuit  
41E0 Exhaust Gas Recirculation Regulation  
41E2 Exhaust Gas Recirculation - Open Circuit  
41E3 Exhaust Gas Recirculation -Plausibility, Overtemp of Output Stage  
41E5 Lambda Sensor -Short Circuit to B+  
41E6 Lambda Sensor -Short Circuit to B-  
41E7 Lambda Sensor -Open Circuit

41F0 Electric Ventilator - Short Circuit to B+

41F1 Electric Ventilator - Short Circuit to B-

41F2 Electric Ventilator - Activation Interrupted

41F3 Electric Ventilator - Plausibility, Overtemp of Output Stage

41F5 Lambda Sensor Virtual Earth -Short Circuit to B+

41F6 Lambda Sensor Virtual Earth -Short Circuit to B-

41F7 Lambda Sensor Virtual Earth -Open Circuit

4203 Glow Module Communication

4205 Lambda Sensor Heating -Short Circuit to B+

4206 Lambda Sensor Heating -Short Circuit to B-

4207 Lambda Sensor Heating

420B EGR in Regen Mode

4211 Glow Plug Cyl 1 - Short Circuit to B+

4212 Glow Plug Cyl 1 - Activation Interrupted

4213 Glow Plug Cyl 1 - Plausibility, Overtemp of Output Stage

4217 Lambda Sensor

4221 Glow Plug Cyl 2 - Short Circuit to B+

4222 Glow Plug Cyl 2 - Activation Interrupted

4223 Glow Plug Cyl 2 - Plausibility, Overtemp of Output Stage

4225 Lambda Sensor -Signal

4226 Lambda Sensor -Signal too Low

422A EGR in Regen Mode

4231 Glow Plug Cyl 3 - Short Circuit to B+

4232 Glow Plug Cyl 3 - Activation Interrupted

4233 Glow Plug Cyl 3 - Plausibility, Overtemp of Output Stage

4235 Control Unit Internal 21

4236 Control Unit Internal 21

4241 Glow Plug Cyl 4 - Short Circuit to B+

4242 Glow Plug Cyl 4 - Activation Interrupted

4243 Glow Plug Cyl 4 - Plausibility, Overtemp of Output Stage

4245 Control Unit Internal 22

4246 Control Unit Internal 22

4251 Glow Plug Cyl 5 - Short Circuit to B+

4252 Glow Plug Cyl 5 - Activation Interrupted

4253 Glow Plug Cyl 5 - Plausibility, Overtemp of Output Stage

4258 Control Unit Internal 23

425D Accelerator Pedal Potentiometer Plausibility

4261 Glow Plug Cyl 6 - Short Circuit to B+

4262 Glow Plug Cyl 6 - Activation Interrupted

4263 Glow Plug Cyl 6 - Plausibility, Overtemp of Output Stage

4267 Lambda Sensor Shunt Detection

4271 Glow Plug Cyl 7 - Short Circuit to B+

4272 Glow Plug Cyl 7 - Activation Interrupted  
4273 Glow Plug Cyl 7 - Plausibility, Overtemp of Output Stage  
4275 Lambda Sensor Heater  
4276 Lambda Sensor Heater  
4281 Glow Plug Cyl 8 - Short Circuit to B+  
4282 Glow Plug Cyl 8 - Activation Interrupted  
4283 Glow Plug Cyl 8 - Plausibility, Overtemp of Output Stage  
4288 Lambda Sensor Heater  
428B Boost Pressure Control of Large Turbo Control Deviation  
4293 Control Unit Internal Error 16  
4296 Lambda Sensor  
4298 Lambda Sensor  
429A Boost Pressure Control of Large Turbo Control Deviation  
42B5 RPM Control  
42C0 Oil Pressure Indicator Lamp - Short Circuit to B+  
42C1 Oil Pressure Indicator Lamp - Short Circuit to B-  
42C2 Oil Pressure Indicator Lamp - Activation interrupted  
42C3 Oil Pressure Indicator Lamp - Plausibility, Overtemp of Output Stage  
42D5 Injector Cylinder 7  
42D6 Injector Cylinder 7  
42D7 Injector Cylinder 7  
42D8 Injector Cylinder 7  
42E2 Changeover Rail Pressure Control  
42F2 Changeover Rail Pressure Control  
42F5 Injector Cylinder 8  
42F6 Injector Cylinder 8  
42F7 Injector Cylinder 8  
42F8 Injector Cylinder 8  
4302 Quantity Regulation Valve - Activation interrupted  
4303 Quantity Regulation Valve - Plausibility, Overtemp of Output Stage  
4310 Quantity Regulation Valve - Short Circuit to B+  
4321 Quantity Regulation Valve - Short Circuit to B-  
4332 Rail Pressure Regulation Valve - Activation Interrupted  
4333 Rail Pressure Regulation Valve - Plausibility, Overtemp of Output Stage  
4340 Rail Pressure Regulation Valve - Short Circuit to B+  
4351 Rail Pressure Regulation Valve - Short Circuit to B-  
4360 Rail Pressure Regulation Valve - Current Regulation  
4361 Rail Pressure Regulation Valve - Current Regulation  
4362 Rail Pressure Regulation Valve - Current Regulation  
4373 Air Flow Mass not Plausible  
4378 Rail Pressure Regulation Valve - Defect  
4382 Rail Pressure Valve Position Test

4390 Boost Air Temperature Sensor - Short Circuit to B+  
4391 Boost Air Temperature Sensor - Short Circuit to B-  
4392 Boost Air Temperature Sensor  
4397 Position Test Volume Adjust Valve  
43A0 Start-block Relay  
43A1 Start-block Relay  
43A2 Start-block Relay  
43A3 Start-block Relay  
43C0 Throttle Valve Actuator -Short Circuit to B+  
43D1 Throttle Valve Actuator -Short Circuit to B-  
43E2 Throttle Valve Actuator -Open Circuit  
43E3 Throttle Valve Actuator -Plausibility, Overtemp of Output Stage  
43F0 Electrical Aux Heater - Short Circuit to B+  
43F1 Electrical Aux Heater - Short Circuit to B-  
43F2 Electrical Aux Heater - Activation Interrupted  
43F3 Electrical Aux Heater - Plausibility, Overtemp of Output Stage  
4403 Control Unit Internal Error 17  
4410 Injector Cylinder 1- Activation  
4411 Injector Cylinder 1- Activation  
4412 Injector Cylinder 1- Activation  
4413 Injector Cylinder 1- Activation  
4417 Control Master/Slave  
441C Injector Cylinder 1 - Earth Side Activation or Open Circuit  
4420 Injector Cylinder 2- Activation  
4421 Injector Cylinder 2- Activation  
4422 Injector Cylinder 2- Activation  
4423 Injector Cylinder 2- Activation  
4428 Control Master/Slave  
442C Injector Cylinder 2 - Earth Side Activation or Open Circuit  
4430 Injector Cylinder 3- Activation  
4431 Injector Cylinder 3- Activation  
4432 Injector Cylinder 3- Activation  
4433 Injector Cylinder 3- Activation  
4438 Control Master/Slave  
443C Injector Cylinder 3 - Earth Side Activation or Open Circuit  
4440 Injector Cylinder 4- Activation  
4441 Injector Cylinder 4- Activation  
4442 Injector Cylinder 4- Activation  
4443 Injector Cylinder 4- Activation  
444C Injector Cylinder 4 - Earth Side Activation or Open Circuit  
4450 Injector Cylinder 5- Activation  
4451 Injector Cylinder 5- Activation

4452 Injector Cylinder 5- Activation  
4453 Injector Cylinder 5- Activation  
445C Injector Cylinder 5 - Earth Side Activation or Open Circuit  
4460 Injector Cylinder 6- Activation  
4461 Injector Cylinder 6- Activation  
4462 Injector Cylinder 6- Activation  
4463 Injector Cylinder 6- Activation  
446C Injector Cylinder 6 - Earth Side Activation or Open Circuit  
4473 Control Unit Internal Error 18  
4480 Control Unit Internal Error 19  
4491 Control Unit Internal Error 20  
44A0 Injectors: Activation Cylinder. 1, 2, 3  
44A1 Injectors: Activation Cylinder. 1, 2, 3  
44A3 Injectors: Activation Cylinder. 1, 2, 3  
44AC Injectors: Activation Cylinder. 1, 2, 3  
44B0 Injectors: Activation Cylinder. 1, 2, 3  
44B1 Injectors: Activation Cylinder. 4, 5, 6  
44B3 Injectors: Activation Cylinder. 4, 5, 6  
44BC Injectors: Activation Cylinder. 4, 5, 6  
44C0 Number of Requested Injections Limited  
44C1 Number of Requested Injections Limited  
44C2 Number of Requested Injections Limited  
44D0 Alternator  
44D2 Alternator  
44D3 Alternator  
44E2 Alternator  
44E3 Alternator  
44F0 Rail Pressure not Plausible  
4500 Exhaust Gas Recirculation- Deviation  
4501 Exhaust Gas Recirculation- Negative Deviation or Air Mass too High  
4506 Exhaust Gas Recirculation- Deviation  
4507 Exhaust Gas Recirculation- Positive Deviation or Air Mass too Low  
4512 Thermal Oil Level Sensor  
4513 Thermal Oil Level Sensor  
4521 Boost Pressure Actuator - Regulation Pressure too High  
452A DPF System  
4530 Boost Pressure Actuator - Regulation Pressure too Low  
4536 Power Management  
453B PT Can Bus  
453C PT Can Bus  
453D PT Can Bus  
4541 Thermal Oil Level Sensor



454B Private CAN bus(master)  
454C Private CAN bus(master)  
454D Private CAN bus(master)  
4550 Boost Pressure Modulation 2  
4560 Rail Pressure Sensor - Plausibility -Pressure too Low  
4570 Rail Pressure not Plausible  
4580 Rail Pressure Sensor - Plausibility -Pressure too High  
4587 Fuel Filter  
4590 Rail Pressure not Plausible  
45A0 Rail Pressure Sensor - Plausibility -Pressure too High  
45A5 Boost Air Temp Sensor 2- Signal  
45A6 Boost Air Temp Sensor 2- Signal  
45C0 Rail Pressure not Plausible  
45E3 Control Master/Slave  
45F2 Control Master/Slave  
45F3 Control Master/Slave  
4600 Rail Pressure Sensor - Plausibility -Pressure too Low  
4605 DPF System  
4610 Rail Pressure not Plausible  
4618 DPF -Plausibility -Pressure Reference  
4620 Rail Pressure Sensor - Plausibility -Pressure too High  
4628 DPF System  
4630 Rail Pressure not Plausible  
4640 Rail Pressure not Plausible  
4645 EGR Controller  
4650 Rail Pressure not Plausible  
4656 Control Unit Internal 24  
4660 Power Supply  
4661 Power Supply  
4665 DPF Bank 1  
4666 DPF Bank 1  
4667 DPF Bank 1  
4670 Power Supply 1 - Short Circuit to B+  
4671 Power Supply 1 - Short Circuit to B-  
4677 Throttle Valve Actuator  
4680 Power Supply 2 - Short Circuit to B+  
4681 Power Supply 2 - Short Circuit to B-  
4687 Throttle Valve Actuator  
4690 Power Supply  
4691 Power Supply  
4697 Throttle Valve Actuator  
46A0 Control Unit Internal Error 1

46A1 Control Unit Internal Error 1  
46A2 Control Unit Internal Error 1  
46A3 Control Unit Internal Error 1  
46A7 Swirl Flap Actuator  
46B0 Control Unit Internal Error 2  
46B1 Control Unit Internal Error 2  
46B2 Control Unit Internal Error 2  
46B3 Control Unit Internal Error 2  
46B7 Swirl Flap Actuator  
46C0 Control Unit Internal Error 3  
46C1 Control Unit Internal Error 3  
46C2 Control Unit Internal Error 3  
46C3 Control Unit Internal Error 3  
46C7 Swirl Flap Actuator  
46D0 Control Unit Internal Error 4  
46D1 Control Unit Internal Error 4  
46D2 Control Unit Internal Error 4  
46D3 Control Unit Internal Error 4  
46D5 Compressor Bypass Activation  
46D6 Compressor Bypass Activation  
46D7 Compressor Bypass Activation  
46D8 Compressor Bypass Activation  
46E0 Control Unit Internal Error 5  
46E1 Control Unit Internal Error 5  
46E2 Control Unit Internal Error 5  
46E3 Control Unit Internal Error 5  
46E5 Wastegate Valve Activation  
46E6 Wastegate Valve Activation  
46F0 Control Unit Internal Error 6  
46F1 Control Unit Internal Error 6  
46F2 Control Unit Internal Error 6  
46F3 Control Unit Internal Error 6  
4700 Control Unit Internal Error 7  
4701 Control Unit Internal Error 7  
4702 Control Unit Internal Error 7  
4703 Control Unit Internal Error 7  
4707 Wastegate Valve Activation  
4708 Wastegate Valve Activation  
4710 Control Unit Internal Error 8  
4711 Control Unit Internal Error 8  
4712 Control Unit Internal Error 8  
4713 Control Unit Internal Error 8

4720 Control Unit Internal Error 9  
4721 Control Unit Internal Error 9  
4722 Control Unit Internal Error 9  
4723 Control Unit Internal Error 9  
4730 Quantity Regulation Current Regulation  
4731 Quantity Regulation Current Regulation  
4732 Quantity Regulation Current Regulation  
4740 Control Unit Internal Error 11  
4747 Injectors - Amplifier Adjustment(control unit internal)  
4750 Control Unit Internal Error 12  
4753 Control Unit Internal Error 12  
475A Exhaust Backpressure Sensor- Bank 2  
475B Exhaust Backpressure Sensor- Bank 2  
4763 Control Unit Internal Error 13  
4765 Injector Cyl 1 - Activation  
4766 Injector Cyl 1 - Activation  
4767 Injector Cyl 1 - Activation  
4768 Injector Cyl 1 - Activation  
476A Injector Cyl 4/5/6 Buffer Voltage Measurement(control unit internal)  
476B Injector Cyl 4/5/6 Buffer Voltage Measurement(control unit internal)  
4770 Control Unit Internal Error 14  
4771 Control Unit Internal Error 14  
4772 Control Unit Internal Error 14  
4773 Control Unit Internal Error 14  
477C Injectors Activation Duration(control unit internal)  
4780 Control Unit Internal Error 15  
4781 Control Unit Internal Error 15  
4782 Control Unit Internal Error 15  
4783 Control Unit Internal Error 15  
4785 Injector Cyl 2 - Activation  
4786 Injector Cyl 2 - Activation  
4787 Injector Cyl 2 - Activation  
4788 Injector Cyl 2 - Activation  
478C Injector Activation Duration(control unit internal)  
4792 Monitoring Master/Slave  
4793 Monitoring Master/Slave  
4795 Injector Cyl 3 - Activation  
4796 Injector Cyl 3 - Activation  
4797 Injector Cyl 3 - Activation  
4798 Injector Cyl 3 - Activation  
47A5 Injector Cyl 4 - Activation  
47A6 Injector Cyl 4 - Activation

47A7 Injector Cyl 4 - Activation  
47A8 Injector Cyl 4 - Activation  
47AB Private CAN Bus(Slave)  
47AC Private CAN Bus(Slave)  
47AD Private CAN Bus(Slave)  
47B5 Injector Cyl 5 - Activation  
47B6 Injector Cyl 5 - Activation  
47B7 Injector Cyl 5 - Activation  
47B8 Injector Cyl 5 - Activation  
47BB Power Train CAN Bus(Slave)  
47BC Power Train CAN Bus(Slave)  
47BD Power Train CAN Bus(Slave)  
47C5 Injector Cyl 6 - Activation  
47C6 Injector Cyl 6 - Activation  
47C7 Injector Cyl 6 - Activation  
47C8 Injector Cyl 6 - Activation  
47D5 Injector Cyl 7 - Activation  
47D6 Injector Cyl 7 - Activation  
47D7 Injector Cyl 7 - Activation  
47D8 Injector Cyl 7 - Activation  
47E5 Injector Cyl 8 - Activation  
47E6 Injector Cyl 8 - Activation  
47E7 Injector Cyl 8 - Activation  
47E8 Injector Cyl 8 - Activation  
4803 Torque Control ACC  
480A DPF -Bank 1  
4810 Torque Control ACC  
481A DPF -Bank 1  
4830 Intake Air Temperature Sensor  
4831 Intake Air Temperature Sensor  
483D Throttle Actuator  
4841 Exhaust Gas Recirculation Regulation 2  
484A Accelerator Pedal Potentiometer -Signal  
4850 Exhaust Gas Recirculation Regulation 2  
4857 Swirl Flap Actuator  
4863 Vehicle Speed Regulation  
4867 Swirl Flap Actuator  
486D Control Unit Software Fault  
4877 Swirl Flap Actuator  
487A Lambda Sensor Bank 2 - Bias Voltage  
487B Lambda Sensor Bank 2 - Bias Voltage  
487C Lambda Sensor Bank 2 - Bias Voltage

4887 Swirl Flap Actuator  
488A Lambda Sensor Bank 2 - Pump Current  
488B Lambda Sensor Bank 2 - Pump Current  
488C Lambda Sensor Bank 2 - Pump Current  
4896 Swirl Flap Actuator  
489A Lambda Sensor Bank 2 - Virtual Ground  
489B Lambda Sensor Bank 2 - Virtual Ground  
489C Lambda Sensor Bank 2 - Virtual Ground  
48A2 CAN Communication with ASC  
48A3 CAN Communication with ASC  
48B2 CAN Communication with ASC  
48B3 CAN Communication with ASC  
48B5 Injectors Voltage Measurement(control unit internal)  
48B6 Injectors Voltage Measurement(control unit internal)  
48B7 Injectors Voltage Measurement(control unit internal)  
48BC Lambda Sensor Bank 2  
48C2 CAN Communication with EGS  
48C5 Injectors Voltage Measurement(control unit internal)  
48C6 Injectors Voltage Measurement(control unit internal)  
48C7 Injectors Voltage Measurement(control unit internal)  
48CA Lambda Sensor Bank 2  
48CB Lambda Sensor Bank 2  
48D2 CAN Communication with Instrument Cluster  
48D3 CAN Communication with Instrument Cluster  
48DA Control Unit Internal 25  
48DB Control Unit Internal 25  
48EA Control Unit Internal 26  
48EB Control Unit Internal 26  
48F2 CAN BUS Hardware  
48F3 CAN BUS Hardware  
48F7 Injectors Wiring Loom  
48FD Control Unit Internal 27  
4900 DSC Torque Intervention  
4907 Injectors Selector Switch(control unit internal)  
490B Control Unit Internal 28  
4912 CAN BUS Hardware Defect in Operation  
4913 CAN BUS Hardware Fault in Initialisation  
4917 Injectors Charge Switch(control unit internal)  
4920 Transmission Link  
4925 Throttle Valve Actuator 2 Activation  
492A Lambda Sensor Bank 2 Heater  
492B Lambda Sensor Bank 2 Heater

4936 Throttle Valve Actuator 2 Activation  
493D Lambda Sensor Bank 2  
4947 Throttle Valve Actuator 2 Activation  
4948 Throttle Valve Actuator 2 Activation  
494D Lambda Sensor Bank 2  
4957 Throttle Valve Actuator 2  
495A Exhaust Temp Sensor before DPF Bank 2  
495B Exhaust Temp Sensor before DPF Bank 2  
4967 Throttle Valve Actuator 2  
496A DPF Bank 2  
497A DPF Bank 2  
4991 Message : Instrument Cluster  
4992 Message : Instrument Cluster  
4997 Throttle Valve Actuator 2  
49A2 Message : Ambient Temperature  
49B0 Message : Torque Request  
49C0 Message : Torque Request  
49D2 Message : Torque Request  
49E0 Message : Torque Request  
49E7 Throttle Actuator  
49F2 Message : Vehicle Speed  
49F3 Message : Vehicle Speed  
4A02 Terminal 15  
4A03 Terminal 15  
4A07 Alternator  
4A08 Alternator  
4A10 BSD Interface  
4A13 BSD Interface  
4A15 Alternator  
4A17 Alternator  
4A18 Alternator  
4A22 Boost Air Pressure Actuator 2 Activation  
4A23 Boost Air Pressure Actuator 2 Activation  
4A25 Intelligent Battery Sensor  
4A27 Intelligent Battery Sensor  
4A28 Intelligent Battery Sensor  
4A30 Multifunction Steering Wheel- Toggle Bit  
4A31 Multifunction Steering Wheel- Frequency Counter  
4A32 Multifunction Steering Wheel- No Signal  
4A33 Multifunction Steering Wheel- Signal not Plausible  
4A35 Intelligent Battery Sensor  
4A37 Intelligent Battery Sensor

4A38 Intelligent Battery Sensor  
4A41 EWS Interface  
4A42 EWS Interface  
4A43 EWS Interface  
4A45 Intelligent Battery Sensor  
4A47 Intelligent Battery Sensor  
4A48 Intelligent Battery Sensor  
4A50 EWS Code Storage  
4A51 EWS Code Storage  
4A56 Power Management Battery  
4A58 Power Management Battery  
4A60 EWS Manipulation  
4A61 EWS Manipulation  
4A62 EWS Manipulation  
4A63 EWS Manipulation  
4A65 Power Management Vehicle Electrical System  
4A66 Power Management Vehicle Electrical System  
4A67 Power Management Vehicle Electrical System  
4A70 Reference Values Incorrect  
4A80 Intake Air Hose  
4AA2 CAN Communication with EGS  
4AA3 CAN Communication with EGS  
4AB0 Electrical Aux Heater  
4AD5 Zero Quantity Adaptation Injector 1  
4AD6 Zero Quantity Adaptation Injector 1  
4AE0 E-Box Ventilator -Short circuit to B+  
4AE1 E-Box Ventilator -Short circuit to B-  
4AE2 E-Box Ventilator -Activation Interrupted  
4AE3 E-Box Ventilator -Plausibility, Overtemp of Output Stage  
4AE5 Zero Quantity Adaptation Injector 2  
4AE6 Zero Quantity Adaptation Injector 2  
4AF0 Control Unit Temperature Sensor  
4AF1 Control Unit Temperature Sensor  
4AF5 Zero Quantity Adaptation Injector 3  
4AF6 Zero Quantity Adaptation Injector 3  
4B00 Control Unit Temperature  
4B05 Zero Quantity Adaptation Injector 4  
4B06 Zero Quantity Adaptation Injector 4  
4B10 Smooth Running Regulation -Correction Quantity too High  
4B11 Smooth Running Regulation -Correction Quantity too Low  
4B15 Zero Quantity Adaptation Injector 5  
4B16 Zero Quantity Adaptation Injector 5

4B20 Electro ventilator -Blocked  
4B22 Electro Ventilator  
4B25 Zero Quantity Adaptation Injector 6  
4B26 Zero Quantity Adaptation Injector 6  
4B35 Oil Sensor  
4B36 Oil Sensor  
4B37 Oil Sensor  
4B38 Oil Sensor  
4B45 Injector Cyl 1 Energy Consumption Measurement  
4B50 Quantity Compensation  
4B55 Injector Cyl 2 Energy Consumption Measurement  
4B60 Quantity Compensation  
4B65 Injector Cyl 3 Energy Consumption Measurement  
4B75 Injector Cyl 4 Energy Consumption Measurement  
4B80 Rail Pressure not Plausible  
4B85 Injector Cyl 5 Energy Consumption Measurement  
4B90 Rail Pressure Control at Engine Start  
4B95 Injector Cyl 6 Energy Consumption Measurement  
4BA0 Intake Air Temperature Sensor -Signal too High or Short  
4BA1 Intake Air Temperature Sensor -Signal too Low  
4BB0 Air Flow Sensor Power Supply  
4BB1 Air Flow Sensor Power Supply  
4BB5 Air Flow Meter -Signal too Low  
4BB6 Air Flow Meter -Signal too High  
4BC0 Air Flow Meter -Signal too Low  
4BC1 Air Flow Meter -Signal too High  
4BC2 Air Flow Meter -Short Circuit  
4BC5 Intake Air Temperature Sensor  
4BC6 Intake Air Temperature Sensor  
4BC7 Intake Air Temperature Sensor  
4BD2 ARS Torque Request  
4BD5 Engine Support  
4BD6 Engine Support  
4BD7 Engine Support  
4BD8 Engine Support  
4BE2 Message : Transmission data  
4BE7 Message : Transmission data 2  
4BF2 Message : Air Conditioning  
4BF7 Message : Range  
4C00 Message : Cruise Control  
4C01 Message : Cruise Control  
4C02 Message : Cruise Control



4C06 Message : ARS Status  
4C07 Message : ARS Status  
4C12 Message : DSC Status  
4C15 Message : Terminal 15  
4C16 Message : Terminal 15  
4C17 Message : Terminal 15  
4C20 Message : DSC Torque  
4C21 Message : DSC Torque  
4C22 Message : DSC Torque  
4C23 Message : DSC Torque  
4C27 Message : Vehicle Speed  
4C28 Message : Vehicle Speed  
4C45 Injector Cyl 7 Energy Consumption Measurement  
4C55 Injector Cyl 8 Energy Consumption Measurement  
4C65 Zero Quantity Adaptation Injector 7  
4C66 Zero Quantity Adaptation Injector 7  
4C75 Supply Voltage Air Mass Flow Sensor 2  
4C76 Supply Voltage Air Mass Flow Sensor 2  
4C95 Zero Quantity Adaptation Injector 8  
4C96 Zero Quantity Adaptation Injector 8  
4CA2 Message : Power Management  
4CB2 Message : Power Management  
4CB3 Message : Power Management  
4CF3 DPF -Plausibility -Exhaust Gas Pressure  
4D00 Exhaust Backpressure Sensor Bank 1  
4D03 Exhaust Backpressure Sensor Bank 1  
4D25 Exhaust Temp Sensor before Catalytic Converter Bank 2  
4D26 Exhaust Temp Sensor before Catalytic Converter Bank 2  
4D45 Exhaust Temp Sensor before DPF Bank 2  
4D46 Exhaust Temp Sensor before DPF Bank 2  
4D56 DPF Bank 2  
4D65 DPF System  
4D75 DPF System  
4D81 Boost Pressure Actuator 2 Activation  
4D98 Exhaust Backpressure Sensor Bank 2  
4DA3 Boost Pressure Control  
4DA5 Exhaust Backpressure Sensor Bank 2  
4DA8 Exhaust Backpressure Sensor Bank 2  
4DB0 EGR Controller 2 Activation  
4DC1 EGR Controller 2 Activation  
4DD2 EGR Controller 2 Activation  
4DD3 EGR Controller 2 Activation

4DD5 Exhaust Temp Sensor before DPF Bank 2  
4DE0 Monitoring Master/Slave - Private CAN  
4DE1 Monitoring Master/Slave - Private CAN  
4DE3 Monitoring Master/Slave - Private CAN  
4DF0 Message : Transmission Torque  
4DF1 Message : Transmission Torque  
4DF2 Message : Transmission Torque  
4DF3 Message : Transmission Torque  
4DF5 Exhaust Temp Sensor before DPF Bank 2  
7073 Automatic Gearbox Switch Signal  
CD87 CAN Bus Communication Error  
CD8B CAN Bus -Control Module has Left the Bus

## **BMW CCID Code List**

### **Active Front Steering**

AFS 273 Active Steering Fault  
AFS 321 Active Steering Deactivated

### **Trailer Module**

AHM 4 Trailer Parking Light Left  
AHM 5 Trailer Parking Light Right  
AHM 6 Trailer Indicator Left  
AHM 7 Trailer Indicator Right  
AHM 8 Trailer Brake Lights  
AHM 9 Trailer Fog Light  
AHM 75 Trailer Electrics Failed  
AHM 90 Trailer Reverse Light  
AHM 423 Trailer Coupling Lock

### **Car Access System**

CAS 14 Door Open F/R  
CAS 15 Door Open F/L  
CAS 16 Door Open R/L  
CAS 17 Door Open R/R  
CAS 18 Bonnet open  
CAS 19 Boot open  
CAS 21 Ignition Problem, Depress Brake to Start  
CAS 22 Starter Problem, Engine cannot Restart  
CAS 38 Wrong Remote Key  
CAS 40 Press Brake to Start  
CAS 65 Change Key, Key Battery Low

CAS 66 Remote Control/Key Fault  
CAS 67 Remote Control/Key Battery Discharged  
CAS 68 Remote Key Stationary Function Battery Low  
CAS 186 ELV Steering Lock Fault. Engine cannot be restarted  
CAS 187 ELV Steering Lock Active. Move Steering Wheel to Restart  
CAS 205 Remote Key not Present  
CAS 206 Engine Start on next Press  
CAS 208 Comfort Access Deactivated  
CAS 209 Remote Key in Vehicle, Locking not possible  
CAS 217 No Remote Control  
CAS 303 Depress Clutch to Start  
CAS 335 Ignition Switched On  
CAS 347 Position R/N/D Not Possible  
CAS 348 Engage Park Before Leaving Vehicle  
CAS 349 Engage Park Before Switching Ignition Off  
CAS 413 Steering Column Unlocked

#### **Convertible Top Module**

CTM 401 Roof Mechanism Failure  
CTM 416 Luggage Compartment Partition  
CTM 432 Roof Drive Overload  
CTM 445 Vehicle Not Level

#### **Digital Motor Electronics/Digital Diesel Electronics**

DME/DDE 25 Preheating, Please Wait  
DME/DDE 26 Cruise Control Defective  
DME/DDE 27 Engine Oil Level Low  
DME/DDE 28 Engine Oil Level Below Minimum  
DME/DDE 29 Engine Problem, Power Reduced  
DME/DDE 30 Engine Problem, Stop Engine  
DME/DDE 31 Engine Problem, Increased Emissions  
DME/DDE 32 Fuel Cap Open  
DME/DDE 33 Engine Problem, Reduce Engine Load  
DME/DDE 39 Engine Overheat, Stop Engine  
DME/DDE 49 Particulate Filter Malfunction  
DME/DDE 148 Brake Light Control Failed  
DME/DDE 182 Oil Level Sensor Malfunction  
DME/DDE 212 Engine Oil Pressure, Stop Engine  
DME/DDE 213 Battery Not Charged  
DME/DDE 220 Battery Discharge Rate High  
DME/DDE 229 Battery Charge Low  
DME/DDE 247 Battery Monitoring Failed

DME/DDE 257 Engine Temperature Too High, Drive Moderately  
DME/DDE 304 Check Battery Condition  
DME/DDE 305 Check Battery Terminals  
DME/DDE 306 Battery Charge Low  
DME/DDE 367 Engine Temperature Too High  
DME/DDE 427 Engine Oil Pressure Low

### **Dynamic Stability Control**

DSC 24 DBC Dynamic Brake Control Brake Assist Failed  
DSC 35 DSC Failed  
DSC 36 DSC/DTC Deactivated  
DSC 42 DSC Control System/Ride Height adjustment  
DSC 50 Runflat Indicator Failed  
DSC 63 Tyre Failure  
DSC 71 Brake Pads Worn  
DSC 74 Brake Fluid Low  
DSC 184 Dynamic Traction Control Active  
DSC 236 Brake and Stability Systems Failure  
DSC 237 Stability Systems Failure  
DSC 328 Brake Pad Wear Sensor  
DSC 330 Hill Decent Control not Available  
DSC 331 Hill Decent Control Active  
DSC 332 Hill Decent Control Deactivated  
DSC 333 Hill Decent Control not Possible  
DSC 334 Run Flat System Requires Standardisation  
DSC 352 Brakes Too Hot  
DSC 353 Brakes Overheated  
DSC 354 Start Assist Inactive  
DSC 364 RPA Initialisation  
DSC 382 DSC Restricted, Brake Pressure Sensor  
DSC 431 Brake Loading Too High

### **Corner Brake Control**

DSC/CBC 42 Brake and Driving Control Failure

### **Tyre Pressure Control**

DSC/RPA 50 Tyre Monitoring Failure  
DSC/RPA 63 Tyre Failure

### **X Drive Control**

DXC 350 4X4 System Failure  
DXC 351 4X4 and DSC Failure

DXC 369 4X4, DSC and ABS Failure

DXC 370 4X4, DSC, ABS and EBV Failure

### **Electronic Gearbox Control/Sequential Sports Gearbox**

EGS/SSG 103 Gearbox Overheating- Drive with Care

EGS/SSG 104 Gearbox Overheating- Reduced Output

EGS/SSG 105 Gearbox Overheated - Stop Vehicle

EGS/SSG 171 Transmission Failsafe Active

EGS/SSG 172 Transmission Malfunction

EGS/SSG 178 Transmission in Neutral, Engage Parking Brake

EGS/SSG 179 Transmission Malfunction

EGS/SSG 248 Brake Signal Malfunction, Gears May Be Selected Without Brake

EGS/SSG 250 Brake Signal Malfunction, Gears May Be Selected Without Brake

EGS/SSG 254 Transmission Malfunction

EGS/SSG 287 Clutch Overheated

EGS/SSG 288 Transmission Malfunction, Failsafe Activated

EGS/SSG 289 Transmission Malfunction, Failsafe Activated

EGS/SSG 290 Transmission Malfunction, Journey May Be Continued With Care

EGS/SSG 291 Transmission Malfunction, Failsafe Activated

EGS/SSG 292 Transmission Malfunction, Re-Select Gear

EGS/SSG 293 Press Brake and Select Neutral to Start

EGS/SSG 302 Park Not Engaged

EGS/SSG 307 Transmission Malfunction, Multiple Failures

EGS/SSG 322 Transmission Teach-in Active

EGS/SSG 323 Clutch Teach-in Active

EGS/SSG 325 Transmission in Neutral

EGS/SSG 326 Transmission in Drive

EGS/SSG 368 Transmission Failsafe Active

EGS/SSG 419 Drive Malfunction

EGS/SSG 420 Transmission Malfunction

### **Electronic Height Control**

EHC 45 Level Control System Failure

EHC 245 Level Control System Failure

### **Electric Fuel Pump**

EKP 216 Fuel Pump Fault

EKP 309 Fuel Pump Malfunction

### **Electronic Power Steering**

EPS 73 EPS Inoperative

EPS 385 Steering Assistance Failed

**High Beam Assistant**

FLA 374 Main Beam Assist Defective  
FLA 375 Main Beam Assist Not Active  
FLA 377 Main Beam Assist Sensativity

**Footwell Module**

FRM 87 Right Rear Light Failure  
FRM 88 Dipped Beam Left Failure  
FRM 89 Dipped Beam Right Failure  
FRM 111 Number Plate Light Left Failure  
FRM 113 Sidelights Switched On  
FRM 114 Rear Fog Light Failure  
FRM 115 Reverse Light Right Failure  
FRM 116 Indicator Rear Left Failure  
FRM 117 Reverse Light Left Failure  
FRM 118 Rear Light Right Failure  
FRM 119 Indicator Front Right Failure  
FRM 120 Dipped Beam Left Failure  
FRM 121 Dipped Beam Right Failure  
FRM 122 Indicator Front Right Failure  
FRM 123 Rear Light Right Failure  
FRM 124 Indicator Right Failure  
FRM 125 Indicator Rear Right Failure  
FRM 126 Fog Light Right Failure  
FRM 127 Side Indicator Left Failure  
FRM 128 Left High Beam Failure  
FRM 129 Rear Fog Light Failure  
FRM 130 Right High Beam Failure  
FRM 131 Parking Light Left Front Failure  
FRM 132 Front Right Side Light Failure  
FRM 133 Right Rear Light Failure  
FRM 134 Right Brake Light Failure  
FRM 135 Centre Brake Light Failure  
FRM 136 Left Brake Light Failure  
FRM 137 Number Plate Light Right Failure  
FRM 138 Fog Light Left Failure  
FRM 196 Indicator Front Right Failure  
FRM 197 Indicator Front Left Failure  
FRM 231 Light System Failure  
FRM 256 Headlight Leveling System Failure  
FRM 259 Window Anti-Trap Deactivated

FRM 261 Window Anti-Trap Failure  
FRM 345 Brake/Tail Light Failure Right  
FRM 346 Brake/Tail Light Failure Left  
FRM 371 Number Plate Light Failure  
FRM 372 Brake Force Display Light Failure Left  
FRM 373 Brake Force Display Light Failure Right  
FRM 378 Sidelight/Daytime Lights Defective- Left  
FRM 379 Sidelight/Daytime Lights Defective- Right  
FRM 380 Turn Signal Lights Defective- Left  
FRM 381 Turn Signal Lights Defective- Right  
FRM/ALC 295 Adaptive Cornering Lights Failure  
FRM 437 Parking Lights On

### **Instrument Cluster**

IKE 13 Radio Key in Lock  
IKE 41 Service Due  
IKE 55 Parking Brake Active  
IKE 60 Speedometer Failure  
IKE 62 Vehicle Speed Limit Exceeded  
IKE 78 Vehicle Speed Limit Exceeded  
IKE 79 Low External Temperature  
IKE 165 Low External Temperature  
IKE 167 Reset Clock  
IKE 275 Low Fuel  
IKE 279 Driver's Seat Insecure  
IKE 280 Passenger's Seat Insecure  
IKE 281 Service Due  
IKE 284 Service Overdue  
IKE 285 Service OK  
IKE 286 Fuel Low / Range  
IKE 301 Seatback Monitoring Failed  
IKE 308 Parking Brake Applied

### **Junction Box**

JB 164 Windscreen Washer Fluid Low  
JB 166 Engine Coolant Level Low  
JB 207 Central Electronics Failure, Stop Vehicle  
JB 415 Battery Discharge Rate High  
JB 430 Transport Mode Active

### **Longitudinal Dynamics Management**

LDM 1 Active Cruise Control Disabled, Poor Conditions

LDM 2 Active Cruise Control Disabled, Poor Signal  
LDM 3 Active Cruise Control Failure  
LDM 59 Active Cruise Control Disabled, Parking Brake  
LDM 69 Active Cruise Control Disabled, Speed too Low  
LDM 85 Active Cruise Control Disabled, Hill Descent  
LDM 176 Active Cruise Control Disabled, Sensor Error  
LDM 276 Engine Speed Too High  
LDM 277 Active Cruise Control Disabled, Gear Selection  
LDM 278 Engine Speed Too Low  
LDM 337 Dynamic Cruise Control Failure  
LDM 338 Dynamic Cruise Control Deactivated, Parking Brake  
LDM 339 Dynamic Cruise Control Deactivated, Excessive Braking  
LDM 340 Dynamic Cruise Control Deactivated, Poor Conditions  
LDM 341 Dynamic Cruise Control Deactivated, Gear Selection  
LDM 342 Dynamic Cruise Control Deactivated, Speed Too Low

#### **Electric Sunroof**

MDS 260 Sunroof Anti-Trap Deactivated  
MDS 262 Sunroof Anti-Trap Failure

#### **Multiple Restraint System**

MRS 46 Fasten Seat Belt  
MRS 91 Fasten Seat Belt  
MRS 92 Front Passenger Seat Belt Pretensioner Fault  
MRS 93 Driver's Seat Belt Pretensioner Fault  
MRS 94 Rear Left Seat Belt Pretensioner Fault  
MRS 95 Rear Right Seat Belt Pretensioner Fault  
MRS 97 Multiple Restraint System Fault  
MRS 106 Rear Left Side Airbag Fault  
MRS 107 Rear Right Side Airbag Fault  
MRS 108 Driver's Airbag Fault  
MRS 109 Passenger Airbag Fault  
MRS 181 System Check Failed  
MRS 266 Rollover Protection Malfunction  
MRS 389 Fasten Driver's Seat Belt  
MRS 390 Fasten Passenger's Seat Belt

#### **Park Distance Control**

PDC 195 Park Distance Control Failure

#### **Tyre Pressure Control**

RDC 139 Front Left Tyre Pressure



RDC 140 Rear Right Tyre Pressure  
RDC 141 Rear Left Tyre Pressure  
RDC 142 Check Tyre Pressures  
RDC 143 Front Right Tyre Pressure  
RDC 144 Tyre Pressure Monitoring Fault  
RDC 145 Tyre Pressure Monitoring Deactivated  
RDC 147 Tyre Puncture Detected  
RDC 149 Tyre Pressure Monitoring Failure  
RDC 192 Tyre Pressure Monitoring Deactivated, System Initialising  
RDC 265 Check Tyre Pressures, Mismatch  
RDC 327 Tyre Pressure Monitoring Deactivated, System Initialising

**Telecommunications Module**

TCU 296 SOS Deactivated, Check Phone  
TCU 297 BMW Assist Deactivated  
TCU 298 BMW Assist Not Possible  
TCU 299 SOS Call System Failure  
TCU 300 BMW Assist Deactivated, Check SIM.