

江淮皮卡故障码库

禁止复印

文档版本: **V10.22**

文档用途: 用于提供给江淮售后服务参考使用

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修订历史:

1. V10.01, 初始版本。
2. V10.02, 更新 T6 安全气囊

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3. V10.10, 新增云内 D19 发动机

4. V10.11, 修改 T6 皮卡 4DA1-2C(FA171)故障码库

5. V10.22, 新增 T6 车身电子稳定系统、博格华纳分时四驱系统故障码库

江淮皮卡故障码 V10. 22

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1 P1

1.1 EMS

1.1.1 Delphi EOBD

P0106	MAP / TPS Rationality(Type E)
P0107	MAP Circuit Low Voltage or Open(Type A)
P0108	MAP Circuit High Voltage(Type A)
P1106	MAP Circuit High Intermittent(Type C)
P1107	MAP Circuit Low Intermittent(Type C)
P0117	Coolant Circuit Low Voltage(Type A)
P0118	Coolant Circuit High Voltage(Type A)
P1114	Coolant Circuit Low Intermittent Voltage(Type C)
P1115	Coolant Circuit High Intermittent Voltage(Type C)
P0123	Throttle Position High Voltage(Type A)
P0122	Throttle Position Low Voltage(Type A)
P1121	Throttle Position High Intermittent Voltage(Type C)
P1122	Throttle Position Low Intermittent Voltage(Type C)
P0171	Fuel Trim System Lean(Type B)
P0172	Fuel Trim System Rich(Type B)
P0300	Misfire(Type B/A)
P0336	CKP Sensor Circuit Noisy Signal(Type E)
P0337	CKP Sensor Circuit No Signal(Type A)
P1336	TEC not lerned(Type A)
P0341	CMP Sensor Rationality Error(Type Z)
P0342	CMP Sensor Circuit No Signal(Type Z)
P0112	IAT Circuit Low Voltage or Open(Type E)

P0113 IAT Circuit High Voltage(Type E)
P1111 IAT Circuit High Intermittent(Type A)
P1112 IAT Circuit Low Intermittent(Type A)
P0351 EST Output #1(Type A)
P0352 EST Output #2(Type A)
P0461 Fuel Level Sensor Rationality-Stuck(Type C)
P0462 Fuel Level Sensor Circuit Short Low(Type C)
P0463 Fuel Level Sensor Circuit Short High(Type C)
P0464 Fuel Level Sensor Intermittent-Noisy(Type Z)
P0420 Catalyst Efficiency below Threshold(Type A)
P0562 Voltage Low Diagnostics(Type C)
P0563 Voltage High Diagnostics(Type C)
P0532 AC Pressure Sensor High Voltage(Type C)
P0533 AC Pressure Sensor Low Voltage or Open(Type C)
P1545 A/C clutch output circuit fault(Type C)
P1546 A/C clutch output circuit fault(Type C)
P0201 Injector A diagnostic(Type A)
P0202 Injector B diagnostic(Type A)
P0203 Injector C diagnostic(Type A)
P0204 Injector D diagnostic(Type A)
P0506 Idle Speed Control-Low RPM(Type E)
P0507 Idle Speed Control-High RPM(Type E)
P0502 Vehicle speed sensor no signal(Type E)
P1391 G-Sensor Rationality Diagnostics(Type C)
P1392 G-Sensor Short to Low Diagnostics(Type C)
P1393 G-Sensor Short to High Diagnostics(Type C)
P0131 Front 02 Sensor Short Low(Type E)
P0132 Front 02 Sensor Short High(Type A)
P0133 Front 02 Sensor Response(Type E)
P0134 Front 02 Sensor Open(Type A)
P0135 Front 02 Heater Fault(Type A)
P1167 Front 02 Sensor Rich DFCO(Type E)
P1171 Front 02 Sensor Lean PE(Type E)
P0137 Rear 02 Sensor Short Low(Type E)
P0138 Rear 02 Sensor Short High(Type E)
P0140 Rear 02 Sensor Open(Type E)
P0141 Rear 02 Heater Fault(Type A)
P0325 Knock System Fault(Type C)

P0327 Knock Sensor Fault(Type C)
P2000 Front Ac Evap Sensor Fault(Type Z)
P2001 Rear Ac Evap Sensor Fault(Type Z)
P0685 Main Power Relay Fault(Type C)
P0230 Fuel Pump Relay Fault(Type C)
P0650 Malfunction Indicator Lamp Fault(Type C)
P2100 Rear Loop Cut off Fault(Type Z)
P0480 Fan1 Fault(Type C)
P0481 Fan2 Fault(Type C)
P0482 Fan3 Fault(Type Z)
P0483 PWMfan Fault(Type Z)
P0705 PRNDL Fault(Type Z)
P0443 Purge Solenoid Diagnostic(Type E)
P1691 Authentication for immobilizer failed
P1690 Immobilizer, no response
P1610 Key not programmed
P1649 Key code of the immobilizer not programmed

1.1.2 491QE

P0016 Crankshaft Position-Camshaft Position Correlation Bank 1 Sensor A
P0030 02 Sensor Heater Contr. Circ. (Bank1(1)Sensor 1)
P0031 02 Sensor Heater Contr. Circ. (Bank1(1)Sensor 1) Low
P0032 02 Sensor Heater Contr. Circ. (Bank1(1)Sensor 1) High
P0036 02 Sensor Heater Contr. Circ. (Bank1(1)Sensor 2)
P0037 02 Sensor Heater Contr. Circ. (Bank1(1)Sensor 2) Low
P0038 02 Sensor Heater Contr. Circ. (Bank1(1)Sensor 2) High
P0053 02 Sensor Heater Resistance(Bank1(1)Sensor 1)
P0054 02 Sensor Heater Resistance(Bank1(1)Sensor 2)
P0101 Mass or Volume Air Flow Circ. Range/Performance
P0102 Mass or Volume Air Flow Circ. Low Input
P0103 Mass or Volume Air Flow Circ. High Input
P0105 Manifold Absolut Pressure/Barometric Pressure Circuit
P0106 Manifold Abs.Pressure or Bar.Pressure Range/Performance
P0107 Manifold Abs.Pressure or Bar.Pressure Low Input
P0108 Manifold Abs.Pressure or Bar.Pressure High Input
P0112 Intake Air Temp.Circ. Low Input

P0113 Intake Air Temp.Circ. High Input
P0116 Engine Coolant Temp.Circ. Range/Performance
P0117 Engine Coolant Temp.Circ. Low Input
P0118 Engine Coolant Temp.Circ. High Input
P0121 Throttle/Pedal Pos.Sensor A Circ. Range/Performance
P0122 Throttle/Pedal Pos.Sensor A Circ. Low Input
P0123 Throttle/Pedal Pos.Sensor A Circ. High Input
P0130 02 Sensor Circ.,Bank1-Sensor1 Malfunction
P0131 02 Sensor Circ.,Bank1-Sensor1 Low Voltage
P0132 02 Sensor Circ.,Bank1-Sensor1 High Voltage
P0133 02 Sensor Circ.,Bank1-Sensor1 Slow Response
P0134 02 Sensor Circ.,Bank1-Sensor1 No Activity Detected
P0136 02 Sensor Circ.,Bank1-Sensor2 Malfunction
P0137 02 Sensor Circ.,Bank1-Sensor2 Low Voltage
P0138 02 Sensor Circ.,Bank1-Sensor2 High Voltage
P0140 02 Sensor Circ.,Bank1-Sensor2 No Activity Detected
P0170 Fuel Trim,Bank1 Malfunction
P0171 Fuel Trim,Bank1 System too Lean
P0172 Fuel Trim,Bank1 System too Rich
P0201 Cylinder 1- Injector Circuit
P0202 Cylinder 2- Injector Circuit
P0203 Cylinder 3- Injector Circuit
P0204 Cylinder 4- Injector Circuit
P0219 Engine Overspeed Condition
P0221 Throttle/Pedal Position Sensor/Switch B Range/Performance
P0222 Throttle/Pedal Position Sensor/Switch B Low Input
P0223 Throttle/Pedal Position Sensor/Switch B High Input
P0261 Cylinder 1- Injector Circuit Low
P0262 Cylinder 1- Injector Circuit High
P0264 Cylinder 2- Injector Circuit Low
P0265 Cylinder 2- Injector Circuit High
P0267 Cylinder 3- Injector Circuit Low
P0268 Cylinder 3- Injector Circuit High
P0270 Cylinder 4- Injector Circuit Low
P0271 Cylinder 4- Injector Circuit High
P0300 Random/Multiple Cylinder Misfire Detected
P0301 Cyl.1 Misfire Detected
P0302 Cyl.2 Misfire Detected

P0303	Cyl.3 Misfire Detected
P0304	Cyl.4 Misfire Detected
P0318	Rough Road Sensor A Signal Circuit
P0321	Ign./Distributor Eng.Speed Inp.Circ. Range/Performance
P0322	Ign./Distributor Eng.Speed Inp.Circ. No Signal
P0324	Knock Control System Error
P0327	Knock Sensor 1 Circ. Low Input
P0328	Knock Sensor 1 Circ. High Input
P0340	Camshaft Position Sensor Circuit
P0341	Camshaft Pos.Sensor Circ. Range/Performance
P0342	Camshaft Pos.Sensor Circ. Low Input
P0343	Camshaft Pos.Sensor Circ. High Input
P0420	Catalyst System,Bank1 Efficiency Below Threshold
P0444	Evaporativ Emiss.System Purge Control Valve Circ. Open
P0458	Evaporative Emission System Purge Control Valve Circuit Low
P0459	Evaporative Emission System Purge Control Valve Circuit High
P0480	Cooling Fan 1 Control Circuit
P0481	Cooling Fan 2 Control Circuit
P0501	Vehicle Speed Sensor Range/Performance
P0506	Idle Control System RPM Lower than Expected
P0507	Idle Control System RPM Higher than Expected
P0508	Idle Air Control System Circuit Low
P0509	Idle Air Control System Circuit High
P0511	Idle Air Control Circuit
P0532	A/C Refrigerant Pressure Sensor Circuit low Input
P0533	A/C Refrigerant Pressure Sensor Circuit high Input
P0537	A/C Evaporator Temperature Sensor Circuit Low
P0538	A/C Evaporator Temperature Sensor Circuit High
P0560	System Voltage Malfunction
P0562	System Voltage Low Voltage
P0563	System Voltage High Voltage
P0571	Brake Switch A Circuit
P0602	Control Modul Programming Error
P0604	Internal Contr.Module Random Access Memory (RAM) Error
P0605	Internal Contr.Module ROM Test Error
P0606	ECM/PCM Processor
P0627	Fuel Pump A Control Circuit/Open
P0628	Fuel Pump A Control Circuit Low

P0629	Fuel Pump A Control Circuit High
P0645	AC clutch relais circuit
P0646	A/C Clutch Relay Control Circuit Low
P0647	A/C Clutch Relay Control Circuit High
P0650	Malfunction Indicator Lamp Control Circ.
P0660	Intake Manifold Tuning Valve Control Circuit/Open(Bank 1)
P0661	Intake Manifold Tuning Valve Control Circuit Low(Bank 1)
P0662	Intake Manifold Tuning Valve Control Circuit High(Bank 1)
P0688	EMC/PCM Power Relay Sense Circuit Open
P0691	Cooling Fan 1 Control Circuit Low
P0692	Cooling Fan 1 Control Circuit High
P0693	Cooling Fan 2 Control Circuit Low
P0694	Cooling Fan 2 Control Circuit High
P0700	Transm. Contr. System Malfunction
P0704	Clutch Switch Input Circuit
P1336	Engine torque control Adaption at limit
P1545	Throttle Pos. Contr. Malfunction
P1558	Throttle Actuator Electrical Malfunction
P1559	Idle Speed Contr. Throttle Pos. Adaptation Malfunction
P1564	Idle Speed Contr. Throttle Pos. Low Voltage During Adaptation
P1565	Idle Speed Control Throttle Position lower limit not attained
P1568	Idle Speed Contr. Throttle Pos. mechanical Malfunction
P1579	Idle Speed Contr. Throttle Pos. adaptation not started
P1604	Internal Control Module Driver Error
P1610	Manufacturer controlled computer and auxiliary outputs
P1611	Manufacturer controlled computer and auxiliary outputs
P1612	Manufacturer controlled computer and auxiliary outputs
P1613	Manufacturer controlled computer and auxiliary outputs
P1614	Manufacturer controlled computer and auxiliary outputs
P1651	Manufacturer controlled computer and auxiliary outputs
P2106	Throttle Actuator Control System Forced Limited Power
P2122	Throttle/Pedal Pos. Sens./Switch D Circuit Low Input
P2123	Throttle/Pedal Pos. Sens./Switch D Circuit Low Input
P2127	Throttle/Pedal Pos. Sens./Switch E Circuit Low Input
P2128	Throttle/Pedal Pos. Sens./Switch E Circuit High Input
P2138	Throttle/Pedal Pos. Sens./Switch D Circuit Low Input
P2177	System Too Lean Off Idle
P2178	System Too Rich Off Idle

P2187	System Too Lean at Idle
P2188	System Too Rich at Idle
P2195	O2 Sensor Signal Stuck Lean; Bank 1 Sensor 1
P2196	O2 Sensor Signal Stuck Rich; Bank 1 Sensor 1
P2270	O2 Sensor Signal Stuck Lean; Bank 1 Sensor 2
P2271	O2 Sensor Signal Stuck Rich; Bank 1 Sensor 2
P0400	Exhaust Gas Recirculation Flow
P0401	Exhaust Gas Recirculation Flow Insufficient Detected
P0402	Exhaust Gas Recirculation Flow Excessive Detected
P0403	Exhaust Gas Recirculation Control Circuit
P0404	Exhaust Gas Recirculation Control Circuit Range/Performance
P0405	Exhaust Gas Recirculation Sensor A Circuit Low
P0406	Exhaust Gas Recirculation Sensor A Circuit High
P0409	Exhaust Gas Recirculation Sensor A Circuit
P0489	Exhaust Gas Recirculation Control Circuit A Low
P0490	Exhaust Gas Recirculation Control Circuit A High
P2008	Intake Manifold Runner Control Circuit/Open
P2009	Intake Manifold Runner Control Circuit Low
P2010	Intake Manifold Runner Control Circuit High
P2014	Intake Manifold Runner Position Sensor/Switch Circuit
P2015	Intake Manifold Runner Position Sensor/Switch Circuit Range/Performance
P2016	Intake Manifold Runner Position Sensor/Switch Circuit Low
P2017	Intake Manifold Runner Position Sensor/Switch Circuit High
P0411	Secondary Air Injection System Incorrect Flow Detected
P0413	Secondary Air Injection System Switching Valve A Circuit Open
P0414	Secondary Air Injection System Switching Valve A Circuit Shorted
P0418	Secondary Air Injection System Control A Circuit
P2257	Secondary Air Injection System Control A Circuit Low
P2258	Secondary Air Injection System Control A Circuit High
P2440	Secondary Air Injection System Switching Valve Stuck Open
P000A	A Camshaft Position Slow Response
P000B	B Camshaft Position Slow Response
P0010	A Camshaft Position Actuator Circuit/ Open
P0011	A Camshaft Position-Timing Over-Advanced or System Performance
P0012	A Camshaft Position-Timing Over-Retarded
P0013	B Camshaft Position-Actuator Circuit/ Open
P0014	B Camshaft Position-Timing Over-Advanced or System Performance
P0015	B Camshaft Position-Timing Over-Retarded

P2088 A Camshaft Position Actuator Control Circuit Low
P2089 A Camshaft Position Actuator Control Circuit High
P2090 B Camshaft Position Actuator Control Circuit Low
P2091 B Camshaft Position Actuator Control Circuit High
P0033 Turbocharger/Supercharger Bypass Valve Control Circuit
P0034 Turbocharger/Supercharger Bypass Valve Control Circuit Low
P0035 Turbocharger/Supercharger Bypass Valve Control Circuit High
P0234 Turbocharger/Supercharger Overboost Condition
P0236 Turbocharger/Supercharger Boost Sensor A Circuit Range/Performance
P0237 Turbocharger/Supercharger Boost Sensor A Circuit Low
P0238 Turbocharger/Supercharger Boost Sensor A Circuit High
P0243 Turbocharger/Supercharger Wastegate Solenoid A
P0245 Turbocharger/Supercharger Wastegate Solenoid A Low
P0246 Turbocharger/Supercharger Wastegate Solenoid A High
P0299 Turbocharger/Supercharger Underboost
P1297 Manufacturer controlled computer and auxiliary outputs
P2261 Turbocharger/Supercharger Bypass Valve-Mechanical
U0001 High Speed CAN defectiv
U0101 Lost Communication with TCM
U0104 Lost Communication With Cruise Control Module
U0121 Lost Communication With Anti-Lock Brake System(ABS) Control Module
U0155 Lost communication with Instrument Panel Cluster control module
U0415 Invalid data received from ABS control module

2 P2

2.1 EMS

2.1.1 Delphi EOBD

P0106 MAP / TPS Rationality(Type E)
P0107 MAP Circuit Low Voltage or Open(Type A)
P0108 MAP Circuit High Voltage(Type A)
P1106 MAP Circuit High Intermittent(Type C)

P1107 MAP Circuit Low Intermittent(Type C)
P0117 Coolant Circuit Low Voltage(Type A)
P0118 Coolant Circuit High Voltage(Type A)
P1114 Coolant Circuit Low Intermittent Voltage(Type C)
P1115 Coolant Circuit High Intermittent Voltage(Type C)
P0123 Throttle Position High Voltage(Type A)
P0122 Throttle Position Low Voltage(Type A)
P1121 Throttle Position High Intermittent Voltage(Type C)
P1122 Throttle Position Low Intermittent Voltage(Type C)
P0171 Fuel Trim System Lean(Type B)
P0172 Fuel Trim System Rich(Type B)
P0300 Misfire(Type B/A)
P0336 CKP Sensor Circuit Noisy Signal(Type E)
P0337 CKP Sensor Circuit No Signal(Type A)
P1336 TEC not lerned(Type A)
P0341 CMP Sensor Rationality Error(Type Z)
P0342 CMP Sensor Circuit No Signal(Type Z)
P0112 IAT Circuit Low Voltage or Open(Type E)
P0113 IAT Circuit High Voltage(Type E)
P1111 IAT Circuit High Intermittent(Type A)
P1112 IAT Circuit Low Intermittent(Type A)
P0351 EST Output #1(Type A)
P0352 EST Output #2(Type A)
P0461 Fuel Level Sensor Rationality-Stuck(Type C)
P0462 Fuel Level Sensor Circuit Short Low(Type C)
P0463 Fuel Level Sensor Circuit Short High(Type C)
P0464 Fuel Level Sensor Intermittent-Noisy(Type Z)
P0420 Catalyst Efficiency below Threshold(Type A)
P0562 Voltage Low Diagnostics(Type C)
P0563 Voltage High Diagnostics(Type C)
P0532 AC Pressure Sensor High Voltage(Type C)
P0533 AC Pressure Sensor Low Voltage or Open(Type C)
P1545 A/C clutch output circuit fault(Type C)
P1546 A/C clutch output circuit fault(Type C)
P0201 Injector A diagnostic(Type A)
P0202 Injector B diagnostic(Type A)
P0203 Injector C diagnostic(Type A)
P0204 Injector D diagnostic(Type A)

P0506 Idle Speed Control-Low RPM(Type E)
P0507 Idle Speed Control-High RPM(Type E)
P0502 Vehicle speed sensor no signal(Type E)
P1391 G-Sensor Rationality Diagnostics(Type C)
P1392 G-Sensor Short to Low Diagnostics(Type C)
P1393 G-Sensor Short to High Diagnostics(Type C)
P0131 Front 02 Sensor Short Low(Type E)
P0132 Front 02 Sensor Short High(Type A)
P0133 Front 02 Sensor Response(Type E)
P0134 Front 02 Sensor Open(Type A)
P0135 Front 02 Heater Fault(Type A)
P1167 Front 02 Sensor Rich DFCO(Type E)
P1171 Front 02 Sensor Lean PE(Type E)
P0137 Rear 02 Sensor Short Low(Type E)
P0138 Rear 02 Sensor Short High(Type E)
P0140 Rear 02 Sensor Open(Type E)
P0141 Rear 02 Heater Fault(Type A)
P0325 Knock System Fault(Type C)
P0327 Knock Sensor Fault(Type C)
P2000 Front Ac Evap Sensor Fault(Type Z)
P2001 Rear Ac Evap Sensor Fault(Type Z)
P0685 Main Power Relay Fault(Type C)
P0230 Fuel Pump Relay Fault(Type C)
P0650 Malfunction Indicator Lamp Fault(Type C)
P2100 Rear Loop Cut off Fault(Type Z)
P0480 Fan1 Fault(Type C)
P0481 Fan2 Fault(Type C)
P0482 Fan3 Fault(Type Z)
P0483 PWMfan Fault(Type Z)
P0705 PRNDL Fault(Type Z)
P0443 Purge Solenoid Diagnostic(Type E)
P1691 Authentication for immobilizer failed
P1690 Immobilizer, no response
P1610 Key not programmed
P1649 Key code of the immobilizer not programmed

3 T6

3.1 EMS

3.1.1 4GA3-3D Gasoline Engine(UAES system)

P0030	02 Sensor Heater Contr. Circ. (Bank1(1)Sensor 1)
P0031	02 Sensor Heater Contr. Circ. (Bank1(1)Sensor 1) Low
P0032	02 Sensor Heater Contr. Circ. (Bank1(1)Sensor 1) High
P0036	02 Sensor Heater Contr. Circ. (Bank1(1)Sensor 2)
P0037	02 Sensor Heater Contr. Circ. (Bank1(1)Sensor 2) Low
P0038	02 Sensor Heater Contr. Circ. (Bank1(1)Sensor 2) High
P0053	02 Sensor Heater Resistance(Bank1(1)Sensor 1)
P0054	02 Sensor Heater Resistance(Bank1(1)Sensor 2)
P0101	Mass or Volume Air Flow Circ. Range/Performance
P0102	Mass or Volume Air Flow Circ. Low Input
P0103	Mass or Volume Air Flow Circ. High Input
P0112	Intake Air Temp.Circ. Low Input
P0113	Intake Air Temp.Circ. High Input
P0116	Engine Coolant Temp.Circ. Range/Performance
P0117	Engine Coolant Temp.Circ. Low Input
P0118	Engine Coolant Temp.Circ. High Input
P0121	Throttle/Pedal Pos.Sensor A Circ. Range/Performance
P0122	Throttle/Pedal Pos.Sensor A Circ. Low Input
P0123	Throttle/Pedal Pos.Sensor A Circ. High Input
P0130	02 Sensor Circ.,Bank1-Sensor1 Malfunction
P0131	02 Sensor Circ.,Bank1-Sensor1 Low Voltage
P0132	02 Sensor Circ.,Bank1-Sensor1 High Voltage
P0133	02 Sensor Circ.,Bank1-Sensor1 Slow Response
P0134	02 Sensor Circ.,Bank1-Sensor1 No Activity Detected
P0136	02 Sensor Circ.,Bank1-Sensor2 Malfunction
P0137	02 Sensor Circ.,Bank1-Sensor2 Low Voltage
P0138	02 Sensor Circ.,Bank1-Sensor2 High Voltage
P0140	02 Sensor Circ.,Bank1-Sensor2 No Activity Detected
P0170	Fuel Trim,Bank1 Malfunction

P0171 Fuel Trim,Bank1 System too Lean
P0172 Fuel Trim,Bank1 System too Rich
P0201 Cylinder 1- Injector Circuit
P0202 Cylinder 2- Injector Circuit
P0203 Cylinder 3- Injector Circuit
P0204 Cylinder 4- Injector Circuit
P0219 Engine Overspeed Condition
P0221 Throttle/Pedal Position Sensor/Switch B Range/Performance
P0222 Throttle/Pedal Position Sensor/Switch B Low Input
P0223 Throttle/Pedal Position Sensor/Switch B High Input
P0261 Cylinder 1- Injector Circuit Low
P0262 Cylinder 1- Injector Circuit High
P0264 Cylinder 2- Injector Circuit Low
P0265 Cylinder 2- Injector Circuit High
P0267 Cylinder 3- Injector Circuit Low
P0268 Cylinder 3- Injector Circuit High
P0270 Cylinder 4- Injector Circuit Low
P0271 Cylinder 4- Injector Circuit High
P0300 Random/Multiple Cylinder Misfire Detected
P0301 Cyl.1 Misfire Detected
P0302 Cyl.2 Misfire Detected
P0303 Cyl.3 Misfire Detected
P0304 Cyl.4 Misfire Detected
P0318 Rough Road Sensor A Signal Circuit
P0321 Ign./Distributor Eng.Speed Inp.Circ. Range/Performance
P0322 Ign./Distributor Eng.Speed Inp.Circ. No Signal
P0324 Knock Control System Error
P0327 Knock Sensor 1 Circ. Low Input
P0328 Knock Sensor 1 Circ. High Input
P0340 Camshaft Position Sensor Circuit
P0341 Camshaft Pos.Sensor Circ. Range/Performance
P0342 Camshaft Pos.Sensor Circ. Low Input
P0343 Camshaft Pos.Sensor Circ. High Input
P0400 Exhaust Gas Recirc.Flow Malfunction
P0401 Exhaust Gas Recirc.Flow Insufficient Detected
P0402 Exhaust Gas Recirc.Flow Excessive Detected
P0403 Exhaust Gas Recirculation Circuit
P0405 Exhaust Gas Recirculat.Sensor A Circuit Low

P0406	Exhaust Gas Recirculat.Sensor A Circuit High
P0409	Exhaust Gas Recirculation Sensor “A” Circuit
P0420	Catalyst System,Bank1 Efficiency Below Threshold
P0444	Evaporativ Emiss.System Purge Control Valve Circ. Open
P0458	Evaporative Emission System Purge Control Valve Circuit Low
P0459	Evaporative Emission System Purge Control Valve Circuit High
P0480	Cooling Fan 1 Control Circuit
P0481	Cooling Fan 2 Control Circuit
P0489	Exhaust Gas Recirculation Control Circuit “A” Low
P0490	Exhaust Gas Recirculation Control Circuit “A” High
P0501	Vehicle Speed Sensor Range/Performance
P0506	Idle Control System RPM Lower than Expected
P0507	Idle Control System RPM Higher than Expected
P0560	System Voltage Malfunction
P0562	System Voltage Low Voltage
P0563	System Voltage High Voltage
P0571	Cruise/Brake Switch (A) Circ. Malfunction
P0602	Control Modul Programming Error
P0604	Internal Contr.Module Random Access Memory (RAM) Error
P0605	Internal Contr.Module ROM Test Error
P0606	ECM/PCM Processor
P0627	Fuel Pump “A” Control Circuit /Open
P0628	Fuel Pump “A” Control Circuit Low
P0629	Fuel Pump “A” Control Circuit High
P0645	AC clutch relais circuit
P0646	A/C Clutch Relay Control Circuit Low
P0647	A/C Clutch Relay Control Circuit High
P0650	Malfunction Indicator Lamp Control Circ.
P0688	EMC/PCM Power Relay Sense Circuit Open
P0691	Cooling Fan 1 Control Circuit Low
P0692	Cooling Fan 1 Control Circuit High
P0693	Cooling Fan 2 Control Circuit Low
P0694	Cooling Fan 2 Control Circuit High
P0704	Clutch Switch Input Circuit
PI336	Engine torque control Adaption at limit
PI545	Throttle Pos.Contr. Malfunction
PI558	Throttle Actuator Electrical Malfunction
PI559	Idle Speed Contr.Throttle Pos. Adaptation Malfunction

P1564	Idle Speed Contr.Throttle Pos. Low Voltage During Adaptation
P1565	Idle Speed Control Throttle Position lower limit not attained
P1568	Idle Speed Contr.Throttle Pos. mechanical Malfunction
P1579	Idle Speed Contr.Throttle Pos. adaptation not started
P1604	Internal Control Module Driver Error
P1651	Manufacturer controlled computer and auxiliary outputs
P2008	Intake Manifold Runner Control Circuit/Open
P2009	Intake Manifold Runner Control Circuit Low
P2010	Intake Manifold Runner Control Circuit High
P2014	Intake Manifold Runner Position Sensor/Switch Circuit
P2015	Intake Manifold Runner Position Sensor/Switch Circuit Range/Performance
P2016	Intake Manifold Runner Position Sensor/Switch Circuit Low
P2106	Throttle Actuator Control System Forced Limited Power
P2122	Throttle/Pedal Pos. Sens./Switch D Circuit Low Input
P2123	Throttle/Pedal Pos. Sens./Switch D Circuit Low Input
P2127	Throttle/Pedal Pos. Sens./Switch E Circuit Low Input
P2128	Throttle/Pedal Pos. Sens./Switch E Circuit High Input
P2138	Throttle/Pedal Position Sensor/Switch D/E Voltage Correlation
P2177	System Too Lean Off Idle
P2178	System Too Rich Off Idle
P2187	System Too Lean at Idle
P2188	System Too Rich at Idle
P2195	O2 Sensor Signal Stuck Lean Bank 1 Sensor 1
P2196	O2 Sensor Signal Stuck Rich Bank 1 Sensor 1
P2270	O2 Sensor Signal Stuck Lean; Bank 1 Sensor 2
P2271	O2 Sensor Signal Stuck Rich; Bank 1 Sensor 2

3.1.2 4DA1-2C Euro IV Diesel Engine(FA171)

P0538	SRC high for AC Evaporator Temperature
P0537	SRC low for AC Evaporator Temperature
P0100	Battery voltage error of HFM sensor
P1100	Low idle correction factor of the drift compensation function exceed the maximum drift limit
P1120	Load correction factor of the drift compensation function exceed the maximum drift limit
P1121	Physical Range Check high for air mass flow signal

P1122	Physical Range Check low for air mass flow signal
P0103	Sensitivity drift high error for HFM sensor
P0102	Sensitivity drift error low for HFM sensor
P0101	Hardware error detection for HFM sensor
P010D	SRC high error for raw value in HFM sensor
P010C	SRC low error for raw value in HFM sensor
P0533	SRC high for AC coolant pressure voltage signal
P0532	SRC low for AC coolant pressure voltage signal
P1512	SRC high for AC coolant pressure duty cycle signal
P1510	SRC low for AC coolant pressure duty cycle signal
P1513	SRC high for AC coolant pressure period signal
P1511	SRC low for AC coolant pressure period signal
P0645	No load error on power stage for the compressor
P1640	Over temperature error on powerstage for the compressor
P2522	No load error on power stage for the reduce torque instruction compressor
P1514	Over temperature error on powerstage for the reduce torque instruction compressor
P1517	Short circuit to battery error on power stage for the reduce torque instruction compressor
P1516	Short circuit to ground error on power stage for the reduce torque instruction compressor
P0647	Short circuit to battery error on power stage for the compressor
P0646	Short circuit to ground error on power stage for the compressor
P1515	Air Compressor switch Plausibility error for CAN input
P2519	Air Compressor switch Signal error for CAN input
P103D	Positive airctl governor deviation above limit for regeneration
P103E	negative airctl governor deviation below limit for regeneration
P0402	Air control system governor deviation above limit
P0401	Air control system governor deviation below limit
P1415	Error path for too longtime spent in transtion mode Rgn to Nrm for Air control
P1416	Time of Air System to closed loop too long error
P169F	DFC for Grid Heater always switched on
P16A0	DFC for Air heater mechanical fault when flame is on(Temperature increase is not significant after the flame relay and the plug are ac-tuated)
P0563	SRC high for battery voltage sensor
P0562	SRC low for battery voltage sensor
P0504	Plausibility check for Brake
P0571	Sig Error for Brake
P0119	defect fault check for coolant temperature Absolute plausibility test

P0116	defect fault check for Coolant temperature dynamic plausibility test
P1110	Physical Range Check high for coolant temperature signal
P1111	Physical Range Check low for coolant temperature signal
P0118	SRC High for Engine coolant temperature(down stream)
P0117	SRC low for Engine coolant temperature(down stream)
P1700	Plausibility check for Clutch
P0704	CAN Signal Error for Clutch
P1245	Working limitation information
P110A	performance limiter for level 0.
P110B	performance limiter for level 1.
P110C	performance limiter for level 2.
P110D	performance limiter for level 3.
P110E	performance limiter is active
P1680	No load error for cruise control indicate lamp powerstage
P1681	Over temperature error for Cruise control indicate lamp powerstage
P1682	Short circuit to battery error for cruise control indicate lamp powerstage
P1683	Short circuit to ground error for cruise control indicate lamp powerstage
P0579	Fault path which indicates the invalid combination of cruise control keys pressed
P0128	DFC-ID of CtT to be used with DSM
P0607	SPI/COM-Errors of the Cy327
P150A	Powerstage diagnosis could be disabled due to high Battery voltage
P150B	Powerstage diagnosis could be disabled due to low Battery voltage
P022A	open load error for ECBVlv
P024A	Over temperature error on powerstage for EGR cooler bypass valve
P022F	Physical Range Check high for EGR cooler bypass valve signal
P022E	Physical Range Check low for EGR cooler bypass valve signal
P022C	Short circuit to battery error of ECB Valve
P022B	Short circuit to ground error of ECB Valve
P024F	Fault check SRC Max error of ECBVlv position sensor
P024E	Fault check SRC Min error of ECBVlv position sensor
P1650	EEP Read Error based on the error for more blocks
P1651	EEP Read Error based on the error for more blocks
P1652	EEP Write Error based on the error for one block
P1410	EGR Valve Permanent positive governor deviation
P1411	EGR Valve Permanent negative governor deviation
P213A	Open load error for EGRVlv H-Bridge powerstage
P213B	Over current error for EGRVlv H-Bridge
P1030	Over temperature error for EGRVlv H-Bridge powerstage

P2142	Short circuit to battery on EGR H-bridge Out1 error
P213D	Short circuit to battery on EGR H-bridge Out2 error
P2141	Short circuit to ground on EGR H-bridge Out1 error
P213C	Short circuit to ground on EGR H-bridge Out2 error
P1031	Short circuit over load error for H-Bridge EGRVlv powerstage
P1032	Temperature dependent over current error for EGRVlv H-Bridge powerstage
P1033	Under voltage error for EGRVlv H-Bridge powerstage
P1034	Jammed EGR valve in closed state
P1035	Jammed EGR valve in open state
P1036	Fault path for long time drift of EGR Valve
P10B2	Fault path for failed EGR Valve offset learning
P1037	Jammed EGR valve during offset learning
P103C	Fault path for plausibility error of EGRVlv
P0409	No load error for EGRVlv
P0403	Over temperature error for EGR Valve powerstage
P1038	Physical Range Check high for EGRVlv position sensor
P1039	Physical Range Check low for EGRVlv position sensor
P0490	Short circuit to battery error of EGR valve
P0489	Short circuit to ground error of EGR valve
P0404	Fault path for short time drift of EGRVlv
P0406	SRC high for EVRVlv position sensor value
P0405	SRC low for EGRVlv position sensor value
P1610	Injection cut off demand (ICO) for shut off coordinator
P0219	Overspeed detection in component engine protection
P0215	Indicates if a TMFW resonance shutoff condition is active
P0737	No load error on the engine speed output
P1710	over temperature detection in component engine protection
P0739	Short circuit to battery error on the engine speed output
P0738	Short circuit to ground error on the engine speed output
P0070	DFC for environment temperature plausibility check function
P102C	Physical Range Check high for Environment Temperature
P102D	Physical Range Check low for Environment Temperature
P0073	SRC High for Environment Temperature
P0072	SRC Low for Environment Temperature
P0339	DFC for camshaft signal diagnose - disturbed signal
P0340	DFC for camshaft signal diagnose - no signal
P0341	DFC for camshaft offset angle exceeded
P0336	DFC for crankshaft signal diagnose - disturbed signal

P0335	DFC for crankshaft signal diagnose - no signal
P020A	DFC reporting error state on comparing energising time to Max value logical injector 1
P020C	DFC reporting error state on comparing energising time to Max value logical injector 2
P020D	DFC reporting error state on comparing energising time to Max value logical injector 3
P020B	DFC reporting error state on comparing energising time to Max value logical injector 4
P1210	DFC reporting error state on comparing energising time to Min value logical injector 1
P1211	DFC reporting error state on comparing energising time to Min value logical injector 2
P1212	DFC reporting error state on comparing energising time to Min value logical injector 3
P1213	DFC reporting error state on comparing energising time to Min value logical injector 4
P1418	No load error for Exhaust Flap Lamp Actuator powerstage
P1419	Over Temperature error for Exhaust Flap Lamp Actuator powerstage
P141A	Short circuit to battery error for Exhaust Flap Lamp Actuator powerstage
P141B	Short circuit to ground error for Exhaust Flap Lamp Actuator powerstage
P141C	No load error for Exhaust Flap Relay Actuator powerstage
P141D	Over Temperature error for Exhaust Flap Relay Actuator powerstage
P141E	Short circuit to battery error for Exhaust Flap Relay Actuator powerstage
P141F	Short circuit to ground error for Exhaust Flap Relay Actuator powerstage
P0480	No load error for DIO Fan powerstage
P0484	Over temperature error for DIO Fan powerstage
P0691	Short circuit to battery error for DIO Fan
P0692	Short circuit to ground error of DIO fan powerstage
P1400	No load error for PWM Fan powerstage
P1401	Over temperature error for PWM Fan powerstage
P1402	Short circuit to battery error for PWM Fan
P1403	Short circuit to ground error of PWM fan powerstage
P1623	No load error for Fuel consumption display signal component
P1624	Over Temperature error for Fuel consumption display signal component
P1621	Short circuit to battery error for Fuel consumption display signal component
P1622	Short circuit to ground error for Fuel consumption display signal component
P1020	No load error in powerstage of fuel filter heating

P16A1	Temperature error in powerstage of fuel filter heating
P1021	Short circuit to battery error in powerstage of fuel filter heating
P1022	Short circuit to ground error in powerstage of fuel filter heating
P250F	fuel tank below critical level or danger of an air contaminated hydraulic system
P2264	No load error for water in fuel indicate lamp powerstage
P2268	Over temperature error for water in fuel indicate lamp powerstage
P2267	Short circuit to battery error for water in fuel indicate lamp powerstage
P2266	Short circuit to ground error of water in fuel indicate lamp powerstage
P2269	Max threshold error for the sensor self test
P2265	error to report detection of water in fuel
P0168	Physical Range Check high for fuel temperature sensor signal
P1130	Physical Range Check low for fuel temperature sensor signal
P0183	SRC high for fuel temperature sensor
P0182	SRC low for fuel temperature sensor
P160A	No load error for glow lamp powerstage
P160B	Over temperature error for glow lamp powerstage
P1608	Short circuit to battery error for glow lamp powerstage
P1609	Short circuit to ground error of glow lamp powerstage
P0382	relay failure (RF), glow plug failure (GF), short circuit/over current (SC) errors of GCU-R
P0380	sticking relay (RS), short circuit/over current (SC) errors of GCU-R
P0670	No load error for glow plug powerstage
P160C	Over temperature error for glow plug lamp powerstage
P0384	Short circuit to battery error of glow plug powerstage
P0383	Short circuit to ground error of glow plug powerstage
P16A2	No load error for open load on power stage for intake air heater
P16A3	No load error for open load on power stage for intake air heater
P1689	DFC for over temperature on power stage for intake air heater
P16A4	DFC for over temperature on power stage for intake air heater
P16A5	DFC for short circuit to battery on power stage for intake air heater
P16A6	DFC for short circuit to battery on power stage for intake air heater
P16A7	DFC for short circuit to ground on power stage for intake air heater
P16A8	DFC for short circuit to ground on power stage for intake air heater
P1645	Number of injections is limited by charger balance of booster capacity
P1646	Number of injections is limited by quantity balance of high pressure pump
P0611	Number of injections is limited by system
P1647	Number of injections is limited by runtime
P10B3	problems with rail pressure build up

P10B4	check of engine starting problems
P0201	open load of logical injector 1
P0203	open load of logical injector 2
P0204	open load of logical injector 3
P0202	open load of logical injector 4
P2146	short circuit of injection bank1
P121A	general short circuit logical injector 1
P121B	general short circuit logical injector 2
P121C	general short circuit logical injector 3
P121D	general short circuit logical injector 4
P1200	short circuit Low Side to High Side logical injector 1
P1201	short circuit Low Side to High Side logical injector 2
P1202	short circuit Low Side to High Side logical injector 3
P1203	short circuit Low Side to High Side logical injector 4
P0263	check of missing injector adjustment value programming of logical injector 1
P0269	check of missing injector adjustment value programming of logical injector 2
P0272	check of missing injector adjustment value programming of logical injector 3
P0266	check of missing injector adjustment value programming of logical injector 4
P062F	Error during read/write operation
P251C	PTO switch Max error
P0255	Intermittent contact between ECU and MeUn
P0251	open load of metering unit output
P0252	over teperature of device driver of metering unit
P0254	short circuit to battery of metering unit output
P0253	short circuit to ground of metering unit output
P025D	signal range check high error of metering unit AD-channel
P025C	signal range check low error of metering unit AD-channel
P0650	No load error for MIL lamp powerstage
P164C	Over temperature error for MIL lamp powerstage
P164D	Short circuit to battery error for MIL lamp powerstage
P164E	Short circuit to ground error of MIL lamp powerstage
P251B	PTO switch Min error
P1660	ECU internal diagnositic error (MoC)
P1662	ECU internal diagnositic error (MoC)
P1663	ECU internal diagnositic error (MoC)
P1664	ECU internal diagnositic error (MoC)
P1665	ECU internal diagnositic error (MoC)
P1666	ECU internal diagnositic error (MoC)

P1667	ECU internal diagnositic error (MoC)
P1672	ECU internal diagnositic error (MoC)
P1668	ECU internal diagnositic error (MoC)
P1614	ECU internal diagnositic error (MoC)
P1617	ECU internal diagnositic error (MoC)
P1618	ECU internal diagnositic error (MoC)
P1615	ECU internal diagnositic error (MoC)
P1673	ECU internal diagnositic error (MoC)
P166A	ECU internal diagnositic error (MoC)
P060A	ECU internal diagnositic error (MoC)
P060D	ECU internal diagnositic error (MoF)
P061C	ECU internal diagnositic error (MoF)
P166B	ECU internal diagnositic error (MoF)
P166C	ECU internal diagnositic error (MoF)
P166D	ECU internal diagnositic error (MoF)
P166E	ECU internal diagnositic error (MoF)
P166F	ECU internal diagnositic error (MoF)
P1674	ECU internal diagnositic error (MoF)
P1613	ECU internal diagnositic error (MoF)
P1670	ECU internal diagnositic error (MoF)
P1671	ECU internal diagnositic error (MoF)
P061B	ECU internal diagnositic error (MoF)
P167C	ECU internal diagnositic error (Mon)
P061D	ECU internal diagnositic error (Mon)
P062B	ECU internal diagnositic error (Mon)
P1637	ECU internal diagnositic error (Mon)
P1638	ECU internal diagnositic error (Mon)
P0686	Early opening defect of main relay
P0687	DFC for stuck main relay error
P251A	PTO switch NPL error
P1061	OBD error
P1062	OBD error
P1063	OBD error
P1064	OBD error
P1065	OBD error
P1066	OBD error
P1067	OBD error
P1060	OBD error

P1068	OBD error
P1069	OBD error
P106A	OBD error
P106B	OBD error
P106C	OBD error
P106D	OBD error
P106E	OBD error
P106F	OBD error
P0521	Maximum oil pressure error in plausibility check
P0524	Minimum oil pressure error in plausibility check
P0520	Signal error on CAN for oil pressure sensor
P0523	SRC high for oil pressure sensor
P0522	SRC low for Oil pressure sensor
P0196	Plausibility check for Oil Temperature
P113A	Oil temperature too high plausibility error
P113B	Physical Range Check high for Oil Temperature
P113C	Physical Range Check low for Oil Temperature
P0195	Signal error on CAN for Oil Temperature
P0198	SRC High for Oil Temperature
P0197	SRC low for Oil Temperature
P0069	Plausibility defect between CACDsP and EnvP
P1220	Physical Range Check high for charged air cooler pressure (down stream) signal
P1221	Physical Range Check low for charged air cooler pressure (down stream) signal
P0238	SRC High for charged air cooler pressure (down stream)
P0237	SRC low for charged air cooler pressure (down stream)
P0299	PCR positive governor deviation above limit
P0234	PCR negative governor deviation below limit
P102A	Physical Range Check high for Environment pressure signal
P102B	Physical Range Check low for Environment pressure signal
P2229	SRC High for Environment Pressure
P2228	SRC low for Environment Pressure
P10B5	Ambient air pressure sensor sensor error by component self diagnosis
P1008	Not plausible fault: PhyMod_trq2qBas_MAP contains non strictly monotonous q curves
P1070	To check for the Particle Oxidation catalyst has been Blocked .
P2002	To check for the Particle Oxidation catalyst has been removed from exhaust Path
P146A	Physical Range Check low for Particle Oxidation catalyst Differential Pressure
P146B	Physical Range Check low for Particle Oxidation catalyst Differential Pressure
P146C	DFC for CAN message

P146D	DFC for faulty POC CAN message
P2455	SRC High for particulate oxidation catalyst differential Pressure
P2454	SRC low for particulate oxidation catalyst differential Pressure
P1001	pressure relief valve reached maximum allowed opening count
P1007	pressure relief valve is forced to open; perform pressure increase
P1006	pressure relief valve is forced to open; perform pressure shock
P1005	pressure relief valve is open
P1004	Quantity balance check if a successful PRV opening is ensured
P1003	Averaged rail pressure is outside the expected tolerance range
P1002	pressure relief valve reached maximum allowed open time
P0627	open load of pre-supply pump output
P062A	Over temperature error on ECU powerstage for Pre supply pump
P0629	short circuit to battery of pre-supply pump output
P0628	short circuit to ground of pre-supply pump output
P1011	maximum positive deviation of rail pressure exceeded
P1012	maximum positive deviation of rail pressure exceeded concerning set flow of fuel
P1013	maximum negative rail pressure deviation with metering unit on lower limit is exceeded
P0087	minimum rail pressure exceeded
P0088	maximum rail pressure exceeded
P10B6	check of minimum rail pressure
P00BE	Rail pressure raw value is intermittent
P0191	rail pressure raw value is above maximum offset
P0194	rail pressure raw value is below minimum offset
P0193	Rail pressure Sensor voltage above upper limit
P0192	Rail pressure Sensor voltage below lower limit
P1643	Cyclic signal check for security
U0117	PTO switch signal error (Com_stPTOSw=0x0E when PTOSwt_swtSig_C = 1)
P0123	Signal Range Check High for APP1
P0223	Signal Range Check High for APP2
P0122	Signal Range Check Low for APP1
P0222	Signal Range Check Low for APP2
P0643	Error Sensor supplies 1
P0653	Error Sensor supplies 2
P0699	Error Sensor supplies 3
P165A	Invalid variant dataset Identifier error
P165B	Variant dataset switching error
P165C	EEPROM read error of the code-word

P161B	No load error for SVS lamp powerstage
P161C	Over temperature error for SVS lamp powerstage
P1619	Short circuit to battery error of SVS lamp powerstage
P161A	Short circuit to ground error of SVS lamp powerstage
P161D	SoftwareResets 0
P161E	SoftwareResets 1
P161F	SoftwareResets 2
P2135	Plausibility Check between APP1 and APP2
P1102	SRC high for air temperature sensor of HFM
P1103	SRC low for air temperature sensor of HFM
P1106	SRC high for period duration of air temperature sensor of HFM
P1107	SRC low for period duration of air temperature sensor of HFM
P0127	Physical Range Check high for signal of air temperature sensor of HFM
P1123	Physical Range Check low for signal of air temperature sensor of HFM
P0113	SRC high for voltage value of air temperature sensor of HFM
P0112	SRC low for voltage value of air temperature sensor of HFM
P103A	Physical Range Check high for signal of intake air temperature sensor (after intercooler)
P103B	Physical Range Check low for signal of intake air temperature sensor (after intercooler)
P0098	SRC High for charger air cooler downstream Temperature
P0097	SRC low for charger air cooler downstream Temperature
P1601	No load error for coolant temperature display powerstage
P1602	Over temperature error on ECU powerstage coolant temperature PWM output
P1603	Short circuit to battery error of coolant temperature display powerstage
P1604	Short circuit to ground error of coolant temperature display powerstage
P1639	Physical Range Check high for signal of ECU temperature sensor
P163A	Physical Range Check low for ECU temperature sensor
P0669	SRC high for ECU temperature sensor
P0668	SRC low for ECU temperature sensor
P16E5	SMP480 ECU temperature sensor plausibility error
P2072	Permanent governor deviation for frozen valve for throttle valve.
P2100	Open load error for H-bridge of throttle valve
P2101	Over current error for H-bridge of throttle valve
P1040	Over temperature error for H-bridge of throttle valve
P2103	Short circuit to battery on Out1 error for H-bridge of throttle valve
P1046	Short circuit to battery on Out2 error for H-bridge of throttle valve
P2102	Short circuit to ground on Out1 error for H-bridge of throttle valve

P1044	Short circuit to ground on Out2 error for H-bridge of throttle valve
P1041	Short circuit over load error for H-bridge of throttle valve
P1042	Temperature dependent over current error for H-bridge of throttle valve
P1045	Under voltage error for H-bridge of throttle valve
P1043	Fault path for long time drift error during offset learning for throttle valve
P061F	Fault path for plausibility error during offset learning for throttle valve
P0487	No load error for powerstage on CJ945 for throttle valve
P0488	Over temperature error on CJ945 for throttle valve
P2173	Permanent positive governor deviation for throttle valve
P2175	Permanent negative governor deviation for throttle valve
P1049	Fault path for Physical Range Check High for throttle valve position
P1047	Fault path for Physical Range Check Low for throttle valve position
P104A	Short circuit to battery error for powerstage on CJ945 for throttle valve
P1048	Short circuit to ground error for powerstage on CJ945 for throttle valve
P0068	Fault path for short time drift error during offset learning for throttle valve
P2622	SRC high for throttle valve position sensor value
P2621	SRC low for throttle valve position sensor value
P104D	DFC for status line error(status line diagnosis - smart valve) for throttle valve
P104E	DFC for valve error(status line diagnosis - smart valve) for throttle valve
P122A	Permanent positive governor deviation for turbo charger
P122B	Permanent negative governor deviation for turbo charger
P2562	Open load error for powerstage of turbo charger
P1522	Over current error for H-bridge of turbo charger
P1523	Over temperature error for H-bridge of turbo charger
P1528	Short circuit to battery on Out1 error for H-bridge of turbo charger
P1529	Short circuit to battery on Out2 error for H-bridge of turbo charger
P1526	Short circuit to ground on Out1 error for H-bridge of turbo charger
P1527	Short circuit to ground on Out2 error for H-bridge of turbo charger
P1520	Short circuit over load error for H-bridge of turbo charger
P1524	Temperature dependent over current error for H-bridge of turbo charger
P1521	Under voltage error for H-bridge of turbo charger
P2563	Jammed valve error for turbo charger
P023D	Fault path for long time drift of turbo charger
P1525	Jammed valve during offset learning for turbo charger
P0045	No load error for turbo charger powerstage
P0046	Over temperature error for turbo charger powerstage
P0048	Short circuit to battery error of turbo charger powerstage
P0047	Short circuit to ground error of turbo charger powerstage

P023E	Fault path for short time drift of turbo charger
P2565	SRC high for turbo charger position sensor value
P2564	SRC low for turbo charger position sensor value
P1620	No load error for TTL lamp powerstage
P1627	Over temperature error for TTL lamp powerstage
P1625	Short circuit to battery error for TTL lamp powerstage
P1626	Short circuit to ground error of TTL lamp powerstage
P0503	Maximum threshold error for vehicle speed
P1500	Physical Range Check high for signal of vehicle speed
P1501	Physical Range Check low for signal of vehicle speed
P0501	Plausibility defect for vehicle speed
P2157	Signal error for vehicle speed over CAN
P1502	Max error for vehicle speed signal over Tachomter sensor
P1503	Min error for vehicle speed signal over Tachomter sensor
P1504	Signal error for vehicle speed over Tachometer
P0500	Defect fault check for wheel error detection
P0660	Permanent positive governor deviation for VSA
P1675	Permanent negative governor deviation for VSA
P1676	Open load error for VSA H-Bredge powerstage
P1677	Over current error for VSA H-Bridge
P1678	Over temperature error for VSA H-bridge powerstage
P0662	Short circuit to battery on Out1 error for VSA
P0665	Short circuit to battery on Out2 error for VSA
P0663	Short circuit over load error for H-Bridge VSA powerstage
P0661	Short circuit to ground on Out1 error for H-bridge of VSA
P0664	Short circuit to ground on Out2 error for H-bridge of VSA
P2004	Temperature dependent over current error for H-bridge of VSA
P2014	Under voltage error for VSA H-Bridge powerstage
P2015	Jammed valve of VSA
P1000	Fault path for long time drift of VSA
P2076	Jammed valve during offset learning for VSA
P2008	No load error for VSA
P207A	Over temperature error for VSA valve lamper powerstage
P2010	Short circuit to battery error of VSA powerstage
P2009	Short circuit to ground error of VSA powerstage
P207B	Fault path for short time drift of VSA
P2078	SRC high for VSA valve position sensor signal
P2077	SRC low for VSA valve position sensor signal

P1250	DFC reporting error state on comparing energising time to Max value logical injector 1
P1251	DFC reporting error state on comparing energising time to Max value logical injector 2
P1252	DFC reporting error state on comparing energising time to Max value logical injector 3
P1253	DFC reporting error state on comparing energising time to Max value logical injector 4
P1254	DFC reporting error state on comparing energising time to Min value logical injector 1
P1255	DFC reporting error state on comparing energising time to Min value logical injector 2
P1256	DFC reporting error state on comparing energising time to Min value logical injector 3
P1257	DFC reporting error state on comparing energising time to Min value logical injector 4

3.1.3 D19\D20 Euro IV Diesel Engine

P0538	SRC high for AC Evaporator Temperature
P0537	SRC low for AC Evaporator Temperature
P0100	Battery voltage error of HFM sensor
P1100	Low idle correction factor of the drift compensation function exceed the maximum drift limit
P1120	Load correction factor of the drift compensation function exceed the maximum drift limit
P010D	SRC high error for raw value in HFM sensor
P010C	SRC low error for raw value in HFM sensor
P0103	Sensitivity drift high error for HFM sensor
P0102	Sensitivity drift error low for HFM sensor
P0101	Hardware error detection for HFM sensor
P0533	SRC high for AC coolant pressure voltage signal
P0532	SRC low for AC coolant pressure voltage signal
P1513	SRC high for AC coolant pressure period signal
P1511	SRC low for AC coolant pressure period signal
P1512	SRC high for AC coolant pressure duty cycle signal
P1510	SRC low for AC coolant pressure duty cycle signal
P0645	No load error on power stage for the compressor
P1640	Over temperature error on powerstage for the compressor

- P2522 No load error on power stage for the reduce torque instruction compressor
- P1514 Over temperature error on powerstage for the reduce torque instruction compressor
- P1517 Short circuit to battery error on power stage for the reduce torque instruction compressor
- P1516 Short circuit to ground error on power stage for the reduce torque instruction compressor
- P0647 Short circuit to battery error on power stage for the compressor
- P0646 Short circuit to ground error on power stage for the compressor
- P1515 Air Compressor switch Plausibility error for CAN input
- P2519 Air Compressor switch Signal error for CAN input
- P103D Positive airtcl governor deviation above limit for regeneration
- P103E negative airtcl governor deviation below limit for regeneration
- P0402 Air control system governor deviation above limit
- P0401 Air control system governor deviation below limit
- P1415 Error path for too longtime spent in transtion mode Rgn to Nrm for Air control
- P0563 SRC high for battery voltage sensor
- P0562 SRC low for battery voltage sensor
- P0504 Plausibility check for Brake
- P0571 Sig Error for Brake
- P0119 defect fault check for coolant temperature Absolute plausibility test
- P0116 defect fault check for Coolant temperature dynamic plausibility test
- P1110 Physical Range Check high for coolant temperature signal
- P1111 Physical Range Check low for coolant temperature signal
- P0118 SRC High for Engine coolant temperature(down stream)
- P0117 SRC low for Engine coolant temperature(down stream)
- P1700 Plausibility check for Clutch
- P0704 CAN Signal Error for Clutch
- P1245 Working limitation information
- P110A performance limiter for level 0.
- P110B performance limiter for level 1.
- P110C performance limiter for level 2.
- P110D performance limiter for level 3.
- P110E performance limiter is active
- P1680 No load error for cruise control indicate lamp powerstage
- P1681 Over temperature error for Cruise control indicate lamp powerstage
- P1682 Short circuit to battery error for cruise control indicate lamp powerstage
- P1683 Short circuit to ground error for cruise control indicate lamp powerstage
- P0579 Fault path which indicates the invalid combination of cruise control keys pressed
- P0128 DFC-ID of CtT to be used with DSM
- P150A Powerstage diagnosis could be disabled due to high Battery voltage

P150B	Powerstage diagnosis could be disabled due to low Battery voltage
P022A	open load error for ECBVlv
P024A	Over temperature error on powerstage for EGR cooler bypass valve
P022C	Short circuit to battery error of ECB Valve
P022B	Short circuit to ground error of ECB Valve
P024F	Fault check SRC Max error of ECBVlv position sensor
P024E	Fault check SRC Min error of ECBVlv position sensor
P1650	EEP Read Error based on the error for more blocks
P1651	EEP Read Error based on the error for more blocks
P1652	EEP Write Error based on the error for one block
P245B	Fault code to indicate SRC High error for EGR cooling
P245A	Fault code to indicate EGR cooling efficiency too low
P245D	Fault code to indicate a defect of egr cooler bypass valve
P1410	EGR Valve Permanent positive governor deviation
P1411	EGR Valve Permanent negative governor deviation
P213A	Open load error for EGRVlv H-Bridge powerstage
P213B	Over current error for EGRVlv H-Bridge
P1030	Over temperature error for EGRVlv H-Bridge powerstage
P2142	Short circuit to battery on EGR H-bridge Out1 error
P213D	Short circuit to battery on EGR H-bridge Out2 error
P2141	Short circuit to ground on EGR H-bridge Out1 error
P213C	Short circuit to ground on EGR H-bridge Out2 error
P1031	Short circuit over load error for H-Bridge EGRVlv powerstage
P1032	Temperature dependent over current error for EGRVlv H-Bridge powerstage
P1033	Under voltage error for EGRVlv H-Bridge powerstage
P1034	Jammed EGR valve in closed state
P1035	Jammed EGR valve in open state
P1036	Fault path for long time drift of EGR Valve
P0409	No load error for EGRVlv
P10B2	Fault path for failed EGR Valve offset learning
P1037	Jammed EGR valve during offset learning
P103C	Fault path for plausibility error of EGRVlv
P0403	Over temperature error for EGR Valve powerstage
P1038	Physical Range Check high for EGRVlv position sensor
P1039	Physical Range Check low for EGRVlv position sensor
P0490	Short circuit to battery error of EGR valve
P0489	Short circuit to ground error of EGR valve
P0406	SRC high for EVRVlv position sensor value

P0405	SRC low for EGRVlv position sensor value
P0404	Fault path for short time drift of EGRVlv
P020A	DFC reporting error state on comparing energising time to Max value logical injector 1
P020C	DFC reporting error state on comparing energising time to Max value logical injector 2
P020D	DFC reporting error state on comparing energising time to Max value logical injector 3
P020B	DFC reporting error state on comparing energising time to Max value logical injector 4
P1210	DFC reporting error state on comparing energising time to Min value logical injector 1
P1211	DFC reporting error state on comparing energising time to Min value logical injector 2
P1212	DFC reporting error state on comparing energising time to Min value logical injector 3
P1213	DFC reporting error state on comparing energising time to Min value logical injector 4
P1214	DFC reporting error state on comparing energising time to Min value logical injector 5
P1215	DFC reporting error state on comparing energising time to Min value logical injector 6
P1216	Maximum deviation of Exhaust temperature inner loop controller
P1217	Minimum deviation of Exhaust temperature inner loop controller
P1218	Maximum deviation of Exhaust temperature outer loop controller
P1219	Minimum deviation of Exhaust temperature outer loop controller
P1610	Injection cut off demand (ICO) for shut off coordinator
P0219	Overspeed detection in component engine protection
P0215	Indicates if a TMFW resonance shutoff condition is active
P0737	No load error on the engine speed output
P1710	Over Temperature error on the engine speed output
P0739	Short circuit to battery error on the engine speed output
P0738	Short circuit to ground error on the engine speed output
P1420	Diagnostic Fault Check for enhanced SRC-Max of First exhaust gas temperature
P1421	Diagnostic Fault Check for enhanced SRC-Max of second exhaust gas temperature
P1422	Diagnostic Fault Check for enhanced SRC-Max of third exhaust gas temperature
P1423	Diagnostic Fault Check for enhanced SRC-Max of fourth exhaust gas temperature
P1424	Diagnostic Fault Check for enhanced SRC-Max of fifth exhaust gas temperature
P1425	Diagnostic Fault Check for enhanced SRC-Max of sixth exhaust gas temperature
P1426	Diagnostic Fault Check for enhanced SRC-Min of First exhaust gas temperature
P1427	Diagnostic Fault Check for enhanced SRC-Min of second exhaust gas temperature
P1428	Diagnostic Fault Check for enhanced SRC-Min of third exhaust gas temperature
P1429	Diagnostic Fault Check for enhanced SRC-Min of fourth exhaust gas temperature
P142A	Diagnostic Fault Check for enhanced SRC-Min of fifth exhaust gas temperature
P142B	Diagnostic Fault Check for enhanced SRC-Min of sixth exhaust gas temperature
P102A	Physical Range Check high for Environment pressure signal
P102B	Physical Range Check low for Environment pressure signal
P2229	SRC High for Environment Pressure

P2228	SRC low for Environment Pressure
P0070	DFC for environment temperature plausibility check function
P102C	Physical Range Check high for Environment Temperature
P102D	Physical Range Check low for Environment Temperature
P0073	SRC High for Environment Temperature
P0072	SRC Low for Environment Temperature
P0339	DFC for camshaft signal diagnose - disturbed signal
P0340	DFC for camshaft signal diagnose - no signal
P0341	DFC for camshaft offset angle exceeded
P0336	DFC for crankshaft signal diagnose - disturbed signal
P0335	DFC for crankshaft signal diagnose - no signal
P1418	No load error for Exhaust Flap Lamp Actuator powerstage
P1419	Over Temperature error for Exhaust Flap Lamp Actuator powerstage
P141A	Short circuit to battery error for Exhaust Flap Lamp Actuator powerstage
P141B	Short circuit to ground error for Exhaust Flap Lamp Actuator powerstage
P141C	No load error for Exhaust Flap Relay Actuator powerstage
P141D	Over Temperature error for Exhaust Flap Relay Actuator powerstage
P141E	Short circuit to battery error for Exhaust Flap Relay Actuator powerstage
P141F	Short circuit to ground error for Exhaust Flap Relay Actuator powerstage
P1436	Diagnostic Fault check during cold start condition of exhaust-gas temperatures
P1437	Diagnostic Fault check for Model based plausibility check of first exhaust-gas temperature
P1438	Diagnostic Fault check for Model based plausibility check of second exhaust-gas temperature
P1439	Diagnostic Fault check for Model based plausibility check of third exhaust-gas temperature
P143A	Diagnostic Fault check for Model based plausibility check of fourth exhaust-gas temperature
P143B	Diagnostic Fault check for Model based plausibility check of fifth exhaust-gas temperature
P143C	Diagnostic Fault check for Model based plausibility check of sixth exhaust-gas temperature
P1430	Plausibility check for cold start condition of exhaust-gas temperature 1
P1431	Plausibility check for cold start condition of exhaust-gas temperature 2
P1432	Plausibility check for cold start condition of exhaust-gas temperature 3
P1433	Plausibility check for cold start condition of exhaust-gas temperature 4
P1434	Plausibility check for cold start condition of exhaust-gas temperature 5
P1435	Plausibility check for cold start condition of exhaust-gas temperature 6
P1230	FMO correction value exceed Maximum threshold
P1231	FMO correction value exceed Minimum threshold
P0480	No load error for DIO Fan1 powerstage
P0481	No load error for DIO Fan2 powerstage
P0483	Over temperature error for DIO Fan1 powerstage
P0484	Over temperature error for DIO Fan2 powerstage

P0691	Short circuit to battery error for DIO Fan
P0693	Short circuit to battery error for DIO Fan
P0692	Short circuit to ground error of DIO fan1 powerstage
P0694	Short circuit to ground error of DIO fan1 powerstage
P1400	No load error for PWM Fan powerstage
P1401	Over temperature error for PWM Fan powerstage
P1402	Short circuit to battery error for PWM Fan
P1403	Short circuit to ground error of PWM fan powerstage
P1623	No load error for Fuel consumption display signal component
P1624	Over Temperature error for Fuel consumption display signal component
P1621	Short circuit to battery error for Fuel consumption display signal component
P1622	Short circuit to ground error for Fuel consumption display signal component
P1020	No load error in powerstage of fuel filter heating
P1025	Over Temperature error in powerstage of fuel filter heating
P1021	Short circuit to battery error in powerstage of fuel filter heating
P1022	Short circuit to ground error in powerstage of fuel filter heating
P250F	fuel tank below critical level or danger of an air contaminated hydraulic system
P2264	No load error for water in fuel indicate lamp powerstage
P2268	Over temperature error for water in fuel indicate lamp powerstage
P2267	Short circuit to battery error for water in fuel indicate lamp powerstage
P2266	Short circuit to ground error of water in fuel indicate lamp powerstage
P2269	Max threshold error for the sensor self test
P2265	error to report detection of water in fuel
P0168	Physical Range Check high for fuel temperature sensor signal
P1130	Physical Range Check low for fuel temperature sensor signal
P0183	SRC high for fuel temperature sensor
P0182	SRC low for fuel temperature sensor
P1131	DFC for fuel temperature plausibility check function
P1720	Check for error for CAN input of gear box
P160A	No load error for glow lamp powerstage
P160B	Over temperature error for glow lamp powerstage
P1608	Short circuit to battery error for glow lamp powerstage
P1609	Short circuit to ground error of glow lamp powerstage
P168A	DFC for coding error when selected coding is not matching for glow plug
P168B	DFC for faulty diagnostic data transmission or protocol error for glow plug
P168C	DFC for coding error when different coding words were received in a coding cycle for glow plug
P0382	relay failure (RF), glow plug failure (GF), short circuit/over current (SC) errors of GCU-R
P0380	sticking relay (RS), short circuit/over current (SC) errors of GCU-R

- P168D No load error for Glow plug Low Voltage System
- P168E Over temperature error on ECU powerstage for Glow plug Low Voltage System
- P168F Short circuit to battery error for Glow plug Low Voltage System
- P1690 Short circuit to ground error for Glow plug Low Voltage System
- P0670 No load error for glow plug powerstage
- P160C Over temperature error for glow plug lamp powerstage
- P1691 DFC for failure Glow Plug 1 powered by GCU-T
- P1692 DFC for failure Glow Plug 2 powered by GCU-T
- P1693 DFC for failure Glow Plug 3 powered by GCU-T
- P1694 DFC for failure Glow Plug 4 powered by GCU-T
- P1695 DFC for failure Glow Plug 5 powered by GCU-T
- P1696 DFC for failure Glow Plug 6 powered by GCU-T
- P1697 DFC for short circuit Glow Plug 1 powered by GCU-T
- P1698 DFC for short circuit Glow Plug 2 powered by GCU-T
- P1699 DFC for short circuit Glow Plug 3 powered by GCU-T
- P169A DFC for short circuit Glow Plug 4 powered by GCU-T
- P169B DFC for short circuit Glow Plug 5 powered by GCU-T
- P169C DFC for short circuit Glow Plug 6 powered by GCU-T
- P0384 Short circuit to battery error of glow plug powerstage
- P0383 Short circuit to ground error of glow plug powerstage
- P169D DFC for T30 missing in GCU-T: If no voltage is present at the T30 input when GCU is activated
- P169E DFC for glow module error in GCU-T
- P0263 check of missing injector adjustment value programming of logical injector 1
- P0269 check of missing injector adjustment value programming of logical injector 2
- P0272 check of missing injector adjustment value programming of logical injector 3
- P0266 check of missing injector adjustment value programming of logical injector 4
- P123A measured injection closing time exceeds a limit of logical injector 1
- P123B measured injection closing time exceeds a limit of logical injector 2
- P123C measured injection closing time exceeds a limit of logical injector 3
- P123D measured injection closing time exceeds a limit of logical injector 4
- P123E measured injection closing time exceeds a limit of logical injector 5
- P123F measured injection closing time exceeds a limit of logical injector 6
- P2146 short circuit of injection bank1
- P2149 short circuit of injection bank2
- P167B CY33X is defect
- P0201 open load of logical injector 1
- P0203 open load of logical injector 2
- P0204 open load of logical injector 3

P0202	open load of logical injector 4
P1207	special pattern for special cases of logical injector 1
P1208	special pattern for special cases of logical injector 2
P1209	special pattern for special cases of logical injector 3
P120A	special pattern for special cases of logical injector 4
P120B	special pattern for special cases of logical injector 5
P120C	special pattern for special cases of logical injector 6
P1200	short circuit Low Side to High Side logical injector 1
P1201	short circuit Low Side to High Side logical injector 2
P1202	short circuit Low Side to High Side logical injector 3
P1203	short circuit Low Side to High Side logical injector 4
P1204	short circuit Low Side to High Side logical injector 5
P1205	short circuit Low Side to High Side logical injector 6
P121A	general short circuit logical injector 1
P121B	general short circuit logical injector 2
P121C	general short circuit logical injector 3
P121D	general short circuit logical injector 4
P121E	general short circuit logical injector 5
P121F	general short circuit logical injector 6
P1645	Number of injections is limited by charger balance of booster capacity
P1646	Number of injections is limited by quantity balance of high pressure pump
P0611	Number of injections is limited by system
P1647	Number of injections is limited by runtime
P2290	check of minimum rail pressure
P062F	Error during read/write operation
P1470	Open circuit at the lambda sensor Nernst cell pin
P2626	open circuit at the lambda sensor pump current pin - IP (lambda = 1 detection)
P1471	Open circuit at the lambda sensor Virtual ground pin
P1472	Fault to indicate Dynamics of the sensor signal too small
P1473	O2 concentration is outside the predefined window during Heater coupling detection
P0032	SCB error of the LSU Heater Powerstage
P0031	SCG error of the LSU Heater Powerstage
P1474	Over temperature error of the LSU Heater Powerstage
P0030	Open Load error of the LSU Heater Powerstage
P1475	Inhibition of some LSU monitoring function due to blow out criterion (non-sufficient heater performance for holding the LSU temperature in the monitoring range)
P1476	The analog signal for O2 ratio from sensor after PT1, during calibration mode exceeds maximum threshold value

- P1477 The analog signal for O2 ratio from sensor after PT1, during calibration mode is below minimum threshold value
- P1478 O2 value above the max threshold
- P1479 O2 value below the min threshold
- P147A Oxygen concentration implausibly high (Full Load detection)
- P147B Oxygen concentration implausibly high (Overrun detection)
- P147C Oxygen concentration implausibly high (Part Load detection)
- P147D Oxygen concentration implausibly low (Full Load detection)
- P147E Oxygen concentration implausibly low (Overrun detection)
- P147F Oxygen concentration implausibly low (Part Load detection)
- P1480 The resistance of lambda sensor after PT1, during calibration exceeds maximum threshold
- P1481 The resistance of lambda sensor after PT1, during calibration exceeds minimum threshold
- P1482 low battery voltage at the SPI chip of lambda sensor
- P1483 Fault check to indicate SPI chip error of lambda sensor
- P1486 O2 Voltage exceeds the threshold value for shunting
- P0132 short to battery at IA,IP, UN, VG of lambda sensor
- P0131 short to ground at IA,IP, UN, VG of lambda sensor
- P1484 LSU sensor calculated temperature exceeds the maximum limit
- P1485 LSU sensor calculated temperature is below the minimum limit
- P1441 when the current control value of the lambda controller at the maximum value, the deviation from the lambda setpoint are greater than up threshold
- P1440 when the current control value of the lambda controller at the minimum value, the deviation from the lambda setpoint are less than down threshold
- P1443 Monitoring of the response time of the exhaust gas lambda controller
- P0650 No load error for MIL lamp powerstage
- P164C Over temperature error for MIL lamp powerstage
- P164D Short circuit to battery error for MIL lamp powerstage
- P164E Short circuit to ground error of MIL lamp powerstage
- P0686 Early opening defect of main relay
- P0687 DFC for stuck main relay error
- P251C PTO switch Max error
- P0255 Intermittent contact between ECU and MeUn
- P0251 open load of metering unit output
- P0252 over teperature of device driver of metering unit
- P0254 short circuit to battery of metering unit output
- P0253 short circuit to ground of metering unit output
- P025D signal range check high error of metering unit AD-channel
- P025C signal range check low error of metering unit AD-channel

P251B PTO switch Min error
P0301 Cylinder 1 Misfire Detected
P0303 Cylinder 2 Misfire Detected
P0304 Cylinder 3 Misfire Detected
P0302 Cylinder 4 Misfire Detected
P0305 Cylinder 5 Misfire Detected
P0306 Cylinder 6 Misfire Detected
P0300 Multiple Cylinder Misfire Detected
P1660 ECU internal diagnostic error (MoC)
P1662 ECU internal diagnostic error (MoC)
P1663 ECU internal diagnostic error (MoC)
P1664 ECU internal diagnostic error (MoC)
P1665 ECU internal diagnostic error (MoC)
P1666 ECU internal diagnostic error (MoC)
P1667 ECU internal diagnostic error (MoC)
P1672 ECU internal diagnostic error (MoC)
P1668 ECU internal diagnostic error (MoC)
P1614 ECU internal diagnostic error (MoC)
P1617 ECU internal diagnostic error (MoC)
P1618 ECU internal diagnostic error (MoC)
P1615 ECU internal diagnostic error (MoC)
P1673 ECU internal diagnostic error (MoC)
P166A ECU internal diagnostic error (MoC)
P060A ECU internal diagnostic error (MoC)
P060D ECU internal diagnostic error (MoF)
P061C ECU internal diagnostic error (MoF)
P166B ECU internal diagnostic error (MoF)
P166C ECU internal diagnostic error (MoF)
P166D ECU internal diagnostic error (MoF)
P166E ECU internal diagnostic error (MoF)
P166F ECU internal diagnostic error (MoF)
P1674 ECU internal diagnostic error (MoF)
P1613 ECU internal diagnostic error (MoF)
P1670 ECU internal diagnostic error (MoF)
P1671 ECU internal diagnostic error (MoF)
P163C ECU internal diagnostic error (MoF)
P061B ECU internal diagnostic error (MoF)
P167C ECU internal diagnostic error (Mon)

P061D	ECU internal diagnostic error (Mon)
P062B	ECU internal diagnostic error (Mon)
P1637	ECU internal diagnostic error (Mon)
P1638	ECU internal diagnostic error (Mon)
P1455	Fault check for Hoseline connection of delta-pressure sensor of DPF
P251A	PTO switch NPL error
P1456	Fault check for the delta-pressure sensor plausibility of DPF
P0521	Maximum oil pressure error in plausibility check
P0524	Minimum oil pressure error in plausibility check
P0523	SRC high for oil pressure sensor
P0522	SRC low for Oil pressure sensor
P0520	Signal error on CAN for oil pressure sensor
P113A	Plausibility check for Oil Temperature
P0196	Oil temperature too high plausibility error
P113B	Physical Range Check high for Oil Temperature
P113C	Physical Range Check low for Oil Temperature
P0198	SRC High for Oil Temperature
P0197	SRC low for Oil Temperature
P0195	Signal error on CAN for Oil Temperature
P0422	Diagnostic fault check for characteristic of OxiCat
P0423	Diagnostic fault check for characteristic of OxiCat
P0069	Plausibility defect between CACDsP and EnvP
P1220	Physical Range Check high for charged air cooler pressure (down stream) signal
P1221	Physical Range Check low for charged air cooler pressure (down stream) signal
P0238	SRC High for charged air cooler pressure (down stream)
P0237	SRC low for charged air cooler pressure (down stream)
P0299	PCR positive governor deviation above limit
P0234	PCR negative governor deviation below limit
P10A2	PCV number of startup attempts exceeded the limit
P10A3	open load of pressure control valve output
P10A4	over temperature of device driver of pressure control valve
P10A5	short circuit to battery of pressure control valve output
P10A6	short circuit to ground of pressure control valve output
P10A7	signal range check high error of pressure control valve AD-channel
P10A8	signal range check low error of pressure control valve AD-channel
P10A0	PCV learning factor too high
P10A1	PCV learning factor too low
P242F	ash load in DPF exceed upper limit

- P1457 Diagnostic fault check for maximum pressure differential characteristics of DPF
- P1458 Diagnostic fault check for minimum pressure differential characteristics of DPF
- P1459 DPF remove or total damage
- P145A engine protection activated due to a high differential pressure through the Particulate filter
- P2458 DPF locked in regeneration status
- P145E Diagnostic fault check for SRC high in Flow Resistance (indicates only the flow resistance of the stored soot mass)
- P145F Diagnostic fault check for SRC low in Flow Resistance (indicates only the flow resistance of the stored soot mass)
- P145B DPF soot mass deviation (meas-sim PM) exceed maximum level
- P145C DPF soot mass deviation (meas-sim PM) exceed maximum level
- P145D Diagnostic fault check for Maximum soot mass
- P1070 To check for the Particle Oxidation catalyst has been Blocked .
- P2002 To check for the Particle Oxidation catalyst has been removed from exhaust Path
- P1460 Enhanced SRC check for the adapted PFIltDiff pressure
- P1461 Enhanced SRC check for the adapted PFIltDiff pressure
- P1462 DFC for dynamic plausibility test of differential pressure sensor
- P1463 DFC to indicate hose line error of differential pressure sensor
- P2455 SRC High for PFIlt differential pressure sensor
- P2454 SRC low for PFIlt differential pressure sensor
- P1464 DFC to indicate hose line error of differential pressure sensor
- P146A Physical Range Check low for Particle Oxidation catalyst Differential Pressure
- P146B Physical Range Check low for Particle Oxidation catalyst Differential Pressure
- P146C DFC for CAN message
- P146D DFC for faulty POC CAN message
- P1007 pressure relief valve is forced to open; perform pressure increase
- P1006 pressure relief valve is forced to open; perform pressure shock
- P1005 pressure relief valve is open
- P1004 Quantity balance check if a successful PRV opening is ensured
- P1003 Averaged rail pressure is outside the expected tolerance range
- P1001 pressure relief valve reached maximum allowed opening count
- P1002 pressure relief valve reached maximum allowed open time
- P0627 open load of pre-supply pump output
- P062A Over temperature error on ECU powerstage for Pre supply pump
- P0629 short circuit to battery of pre-supply pump output
- P0628 short circuit to ground of pre-supply pump output
- P1008 Not plausible fault: PhyMod_trq2qBas_MAP contains non strictly monotonous q curves
- P10A9 set value of Pressure control valve not in plausibility range during CPC governing

P10AB	minimum rail pressure exceeded during CPC governing
P10AC	maximum rail pressure exceeded during CPC governing
P1011	maximum positive deviation of rail pressure exceeded
P1012	maximum positive deviation of rail pressure exceeded concerning set flow of fuel
P1013	maximum negative rail pressure deviation with metering unit on lower limit is exceeded
P0087	minimum rail pressure exceeded
P0088	maximum rail pressure exceeded
P0089	maximum rail pressure exceeded - overrun detection
P10AD	maximum positive deviation of rail pressure exceeded
P10AE	maximum positive deviation of rail pressure exceeded concerning set value PCV
P10AF	maximum negative rail pressure deviation with closed pressure control valve exceeded
P10B0	Rail pressure under minimum rail pressure limitation
P10B1	Rail pressure above maximum rail pressure limitation
P00BE	Rail pressure raw value is intermittent
P0191	rail pressure raw value is above maximum offset
P0194	rail pressure raw value is below minimum offset
P0193	Rail pressure Sensor voltage above upper limit
P0192	Rail pressure Sensor voltage below lower limit
P0123	Signal Range Check High for APP1
P0223	Signal Range Check High for APP2
P0122	Signal Range Check Low for APP1
P0222	Signal Range Check Low for APP2
P0643	Error Sensor supplies 1
P0653	Error Sensor supplies 2
P0699	Error Sensor supplies 3
P165A	Invalid variant dataset Identifier error
P165B	Variant dataset switching error
P165C	EEPROM read error of the code-word
P161B	No load error for SVS lamp powerstage
P161C	Over temperature error for SVS lamp powerstage
P1619	Short circuit to battery error of SVS lamp powerstage
P161A	Short circuit to ground error of SVS lamp powerstage
P161D	SoftwareResets 0
P161E	SoftwareResets 1
P161F	SoftwareResets 2
P1642	Immo EOLData Read Error response
P1643	Cyclic signal check for security
PC117	PTO switch signal error (Com_stPTOSw=0x0E when PTOSwt_swtSig_C = 1)

P0A32	Timer error of stop counter
P1629	only a dummy -do not use!
P1628	Over temperature error on ECU powerstage for high side of starter output
P0616	Short circuit to battery error for high side of starter output
P0617	Short circuit to ground error for high side of starter output
P162B	Over temperature error on ECU powerstage for low side of starter output
P162C	Short circuit to battery error for low side of starter output
P162D	Short circuit to ground error for low side of starter output
P0615	No load error for starter
P2135	Plausibility Check between APP1 and APP2
P167E	Defective T50 switch
P1102	SRC high for air temperature sensor of HFM
P1103	SRC low for air temperature sensor of HFM
P1106	SRC high for period duration of air temperature sensor of HFM
P1107	SRC low for period duration of air temperature sensor of HFM
P0127	Physical Range Check high for signal of air temperature sensor of HFM
P1123	Physical Range Check low for signal of air temperature sensor of HFM
P0113	SRC high for voltage value of air temperature sensor of HFM
P0112	SRC low for voltage value of air temperature sensor of HFM
P103A	Physical Range Check high for signal of intake air temperature sensor (after intercooler)
P103B	Physical Range Check low for signal of intake air temperature sensor (after intercooler)
P0098	SRC High for charger air cooler downstream Temperature
P0097	SRC low for charger air cooler downstream Temperature
P1601	No load error for coolant temperature display powerstage
P1602	Over temperature error on ECU powerstage coolant temperature PWM output
P1603	Short circuit to battery error of coolant temperture display powerstage
P1604	Short circuit to ground error of coolant temperture display powerstage
P1633	Physical Range Check high for ECU temperature sensor
P1634	Physical Range Check high for ECU temperature sensor
P1635	Physical Range Check low for ECU temperature sensor
P1636	Physical Range Check low for ECU temperature sensor
P163B	SPI Error ECU temperature sensor (LM71)
P0669	SRC high for ECU temperature sensor
P0668	SRC low for ECU temperature sensor
P140A	Physical Range Check high for EGR cooler downstream temperature
P140B	Physical Range Check low for EGR cooler downstream temperature
P040D	SRC high for EGR cooler downstream temperature sensor
P040C	SRC low for EGR cooler downstream temperature sensor

- P1264 Too many points in TEOFA correction map above upper limit
- P1265 Too many points in TEOFA correction map below lower limit
- P148C Physical Range Check high for DOC downstream temperature sensor
- P148D Physical Range Check low for DOC downstream temperature sensor
- P042B SRC High for DOC downstream temperature sensor
- P042C SRC low for DOC downstream temperature sensor
- P0426 Diagnostic fault check for Plausibility errors in Oxidation Catalyst upstream temperature
- P148A Physical Range Check high for DOC upstream temperature sensor
- P148B Physical Range Check low for DOC upstream temperature sensor
- P0428 Diagnostic fault check for SRC high in Oxidation Catalyst upstream temperature
- P0427 Diagnostic fault check for SRC low in Oxidation Catalyst upstream temperature
- P1450 Diagnostic fault check for Plausibility errors in Particle filter upstream temperature
- P1453 Physical Range Check high for particulate filter upstream temperature sensor
- P1454 Physical Range Check low for particulate filter upstream temperature sensor
- P1451 Diagnostic fault check for SRC high in Particle filter upstream temperature
- P1452 Diagnostic fault check for SRC low in Particle filter upstream temperature
- P1620 No load error for TTL lamp powerstage
- P1627 Over temperature error for TTL lamp powerstage
- P1625 Short circuit to battery error for TTL lamp powerstage
- P1626 Short circuit to ground error of TTL lamp powerstage
- P2072 Permanent governor deviation for frozen valve for throttle valve.
- P2100 Open load error for H-bridge of throttle valve
- P2101 Over current error for H-bridge of throttle valve
- P1040 Over temperature error for H-bridge of throttle valve
- P2103 Short circuit to battery on Out1 error for H-bridge of throttle valve
- P1046 Short circuit to battery on Out2 error for H-bridge of throttle valve
- P2102 Short circuit to ground on Out1 error for H-bridge of throttle valve
- P1044 Short circuit to ground on Out2 error for H-bridge of throttle valve
- P1041 Short circuit over load error for H-bridge of throttle valve
- P1042 Temperature dependent over current error for H-bridge of throttle valve
- P1045 Under voltage error for H-bridge of throttle valve
- P1043 Fault path for long time drift error during offset learning for throttle valve
- P0487 No load error for powerstage on CJ945 for throttle valve
- P061F Fault path for plausibility error during offset learning for throttle valve
- P0488 Over temperature error on CJ945 for throttle valve
- P2173 Permanent positive governor deviation for throttle valve
- P2175 Permanent negative governor deviation for throttle valve
- P104A Short circuit to battery error for powerstage on CJ945 for throttle valve

P1048	Short circuit to ground error for powerstage on CJ945 for throttle valve
P2622	SRC high for throttle valve position sensor value
P2621	SRC low for throttle valve position sensor value
P0068	Fault path for short time drift error during offset learning for throttle valve
P104D	DFC for status line error(status line diagnosis - smart valve) for throttle valve
P104E	DFC for valve error(status line diagnosis - smart valve) for throttle valve
P122A	Permanent positive governor deviation for turbo charger
P122B	Permanent negative governor deviation for turbo charger
P2562	Open load error for powerstage of turbo charger
P1522	Over current error for H-bridge of turbo charger
P1523	Over temperature error for H-bridge of turbo charger
P1528	Short circuit to battery on Out1 error for H-bridge of turbo charger
P1529	Short circuit to battery on Out2 error for H-bridge of turbo charger
P1526	Short circuit to ground on Out1 error for H-bridge of turbo charger
P1527	Short circuit to ground on Out2 error for H-bridge of turbo charger
P1520	Short circuit over load error for H-bridge of turbo charger
P1524	Temperature dependent over current error for H-bridge of turbo charger
P1521	Under voltage error for H-bridge of turbo charger
P2563	Jammed valve error for turbo charger
P023D	Fault path for long time drift of turbo charger
P0045	No load error for turbo charger powerstage
P1525	Jammed valve during offset learning for turbo charger
P0046	Over temperature error for turbo charger powerstage
P0048	Short circuit to battery error of turbo charger powerstage
P0047	Short circuit to ground error of turbo charger powerstage
P2565	SRC high for turbo charger position sensor value
P2564	SRC low for turbo charger position sensor value
P023E	Fault path for short time drift of turbo charger
P1684	Current limited for VSA
P1685	DFC for valve drift at closed position for VSA
P1686	DFC for valve drift at open position for VSA
P1687	DFC for Range drift for VSA
P1087	Diagnostic FMIN Error1
P1088	Diagnostic FMIN Error2
P1089	Diagnostic FMIN Error3
P1090	Diagnostic FMIN Error4
P1091	Diagnostic FMIN Error5
P1092	Diagnostic FMIN Error6

P1093	Diagnostic FMIN Error7
P1094	Diagnostic FMIN Error8
P1095	Fault path for unknown frequency within valid signal range for VSA
P1688	Governor deviation during Cold Start for VSA
P0660	Permanent positive governor deviation for VSA
P1675	Permanent negative governor deviation for VSA
P1676	Open load error for VSA H-Bridge powerstage
P1677	Over current error for VSA H-Bridge
P1678	Over temperature error for VSA H-bridge powerstage
P0662	Short circuit to battery on Out1 error for H-bridge of VSA
P0665	Short circuit to battery on Out2 error for H-bridge of VSA
P0661	Short circuit to ground on Out1 error for H-bridge of VSA
P0664	Short circuit to ground on Out2 error for H-bridge of VSA
P0663	Short circuit over load error for H-bridge of VSA
P2004	Temperature dependent over current error for H-bridge of VSA
P2014	Under voltage error for VSA H-Bridge powerstage
P2015	Jammed valve closed of VSA valve
P1081	Jammed valve open of VSA valve
P1000	DFC for long time valve drift at closed position for VSA
P1080	DFC for long time valve drift at open position for VSA
P2008	No load error for VSA
P207A	Over temperature error for VSA valve lamper powerstage
P1096	Fault code for Diagnostic PWMIN SCR Error for VSA
P1097	Fault code for Diagnostic PWMIN SCR Error for VSA
P1082	DFC for VSA valve position sensor physical SRC high
P1083	DFC for VSA valve position sensor physical SRC low
P2010	Short circuit to battery error of VSA powerstage
P2009	Short circuit to ground error of VSA powerstage
P2078	SRC high for VSA valve position sensor signal
P2077	SRC low for VSA valve position sensor signal
P207B	DFC for short time valve drift at closed position for VSA
P1084	DFC for short time valve drift at open position for VSA
P1085	DFC for spring break detection for VSA
P1086	Fault code for temporary errors of VSA
P0503	Maximum threshold error for vehicle speed
P1500	Physical Range Check high for signal of vehicle speed
P1501	Physical Range Check low for signal of vehicle speed
P2157	Signal error for vehicle speed over CAN

P1502	Max error for vehicle speed signal over Tachomter sensor
P1503	Min error for vehicle speed signal over Tachomter sensor
P1504	Signal error for vehicle speed over Tachometer
P0500	Defect fault check for wheel error detection
P1250	DFC reporting error state on comparing energising time to Max value logical injector 1
P1251	DFC reporting error state on comparing energising time to Max value logical injector 2
P1252	DFC reporting error state on comparing energising time to Max value logical injector 3
P1253	DFC reporting error state on comparing energising time to Max value logical injector 4
P1258	DFC reporting error state on comparing energising time to Max value logical injector 5
P1259	DFC reporting error state on comparing energising time to Max value logical injector 6
P1254	DFC reporting error state on comparing energising time to Min value logical injector 1
P1255	DFC reporting error state on comparing energising time to Min value logical injector 2
P1256	DFC reporting error state on comparing energising time to Min value logical injector 3
P1257	DFC reporting error state on comparing energising time to Min value logical injector 4
P125A	DFC reporting error state on comparing energising time to Min value logical injector 5
P125B	DFC reporting error state on comparing energising time to Min value logical injector 6
P0501	Plausibility defect for vehicle speed
PD14E	Signal error for vehicle speed over CAN
P215A	Defect fault check for wheel error detection

3.1.4 4DB2-1D Euro V Diesel Engine

B0020	Unknown airbag signal pattern received fault
P0645	A/C Compressor Clutch relay control Open Circuit
P0646	A/C Compressor Clutch relay short circuit to ground fault
P0647	Short Circuit to Vbatt rec fault for A/C compressor relay driver
P0606	Analog/digital convert fault
B1020	Airbag high signal fault recovery
B1021	Airbag low signal fault recovery
P110A	Open circuit fault detected on AMF Chip Heating output
P110B	Short circuit to Vbat fault detected on AMF Chip Heating output
P1103	High threshold uncorrected air error without EGR.
P1102	Low threshold uncorrected air error without EGR.
P010D	High fault on AMF Ref Freq input (OC or SC2VBAT)
P010C	Low fault on AMF Ref Freq input (SC2G)
P0103	Amf fault detected (high)

P0102	Amf fault detected (low)
P1342	Camshaft/Crankshaft delta speed fault detected
P0344	Camshaft signal erratic fault detected
P1343	Camshaft signal lost fault detected
P1333	Crankshaft signal lost fault detected
P0372	Missing event fault detected
P1335	Crankshaft over-speed fault detected
P1336	APS fault-Event Gap missing
P1690	confirmed authorization key unmatched
P1694	Authentication with Immobiliser was not good : fault confirmed
P16A1	confirmed no Authentication result response condition: fault detected
P1699	Secret Key not programmed in ECM : fault detected
P2229	Atmospheric pressure sensor high fault soft.
P2228	Atmospheric pressure sensor low fault rec.
P2227	Detected Baro Sensor failure (IC returns DIAG1, DIAG2 or EEPROM error)
P15D0	Confirmed battery voltage failure
P0563	Confirmed pbatt high voltage failure
P0562	Confirmed pbatt low voltage failure
P0573	Confirmed failure of the Brake light switch stuck to True
P0572	Confirmed failure of the Brake light switch stuck to False
P0571	Confirmed failure of the Brake light switch
P0724	Confirmed failure of the Brake safety switch stuck to True
P0719	Confirmed failure of the Brake safety switch stuck to False
P0703	Confirmed failure of the Brake safety switch
P1504	Brake switch signal fault
P1286	High resistance level on injector 1
P1287	High resistance level on injector 3
P1288	High resistance level on injector 4
P1289	High resistance level on injector 2
P1296	Low resistance level on injector 1
P1297	Low resistance level on injector 3
P1298	Low resistance level on injector 4
P1299	Low resistance level on injector 2
U0073	CAN BUS0 bus off
P16C0	C2I Data error detected on injector 1
P16C1	C2I Data error detected on injector 3
P16C2	C2I Data error detected on injector 4

P16C3	C2I Data error detected on injector 2
P1608	C2I Ram integrity check
P1501	Vehicle speed signal issue via CAN bus
P0118	Coolant sensor high fault confirmed
P0117	Coolant sensor low fault confirmed
P0115	Global engine coolant temperature fault
P0566	Cruise cancel switch stucked
P0565	Cruise control switch stucked
P0579	Unplausible voltage level on cruise switch for a too long time
P0567	Cruise resume switch stucked
P0568	Cruise set switch stucked
P0578	Cruise speed limiter switch stucked
P3030	DOC light off for DOC low efficiency
P1450	DPF leak detected
P1456	Differential pressure plausibility 2 failure
P1457	Delta pressure sensor tubes inversion failure
P1458	Delta pressure sensor inlet tube clamped failure
P1455	DP Plausibility fault
P2455	High differential pressure sensor fault
P2454	Low differential pressure sensor fault
P1453	DPF is empty
P1546	Before particulate filter temperature sensor high fault rec.
P1545	Before particulate filter temperature sensor low fault rec.
P15B2	Before particulate filter temperature sensor plausibility fault rec.
P2002	DPF leak
P1452	DP Filter overloaded
P242F	DP Filter plugged
P246C	Torque reduction for DP Filter protection
P2458	Regen too frequent failure
P1454	Main relay fault-ECU Power cut not expected
P0401	EGR Air error too high failure
P0402	EGR Air error too low failure
P142E	fault on HP EGR valve antistuck control.
P245A	Open circuit failure detected on High-pressure EGR Cooler bypass
P245C	Short circuit to ground failure confirmed on High-pressure EGR Cooler bypass
P245D	Short circuit to Vbatt failure confirmed on High-pressure EGR Cooler bypass
P0406	Fault raised if the position read by the HP EGR feedback sensor is under the defined

	working range
P0405	Fault raised if the position read by the HP EGR feedback sensor is over the defined working range
P0487	Flag to indicate an open circuit fault rec
P1403	Flag to indicate short to load circuit fault rec
P0490	Flag to indicate short to battery circuit fault rec
P0489	Flag to indicate short to ground circuit fault rec
P0400	EGR low flow
P141A	fault on HP EGR valve for first close hard stop learning out of range
P141B	Recovery fault on HP EGR valve for first open hard stop learning out of range
P141C	fault on HP EGR valve for close hard stop long deviation
P141D	fault on HP EGR valve for close hard stop short deviation
P141E	fault on HP EGR valve for open hard stop long deviation
P141F	fault on HP EGR valve for open hard stop short deviation
P042E	fault raised if an object is stuck in the valve
P1407	fault on HP EGR valve position control.
P140A	fault raised if the HP EGR valve antistuck procedure is failed
P0219	Engine overspeed detected
P2428	fault flag when exhaust temperature is too high.
P2147	A flag to indicate a ground fault detected on the bank
P2150	A flag to indicate a ground fault detected on the bank
P2148	A flag to indicate a SC2VBATT fault detected on the bank
P2151	A flag to indicate a SC2VBATT fault detected on the bank
P1261	fault indicating that the output of the CBC closed loop is non-functional.
P0263	Cylinder balancing on injector 1 fault-Missfiring in the corresponding cylinder
P0269	Cylinder balancing on injector 3 fault-Missfiring in the corresponding cylinder
P0272	Cylinder balancing on injector 4 fault-Missfiring in the corresponding cylinder
P0266	Cylinder balancing on injector 2 fault-Missfiring in the corresponding cylinder
P1260	CBC trims have been on the limit for a given number of injections.
P0201	Injector 1 Electrical fault-Open circuit
P0203	Injector 3 Electrical fault-Open circuit
P0204	Injector 4 Electrical fault-Open circuit
P0202	Injector 2 Electrical fault-Open circuit
P1265	Injector 1 Electrical fault-Short circuit between HSD and LSD
P1267	Injector 3 Electrical fault-Short circuit between HSD and LSD
P1268	Injector 4 Electrical fault-Short circuit between HSD and LSD
P1266	Injector 2 Electrical fault-Short circuit between HSD and LSD

P0183	High failure on fuel temp sensor
P0182	Low failure on fuel temp sensor
P0382	Open circuit failure detected on Glow Plug output
P0384	short to load circuit failure detected on Glow Plug output
P0383	short to ground circuit failure detected on Glow Plug output
P1252	Inlet Metring Valve Trim Resistance high fault-Trim resistance is above the maximum threshold
P1251	Inlet Metring Valve Trim Resistance low fault-Trim resistance is below the minimum threshold
P0259	Inlet metring valve feedback short circuit to Vbat failure
P0258	Inlet meter valve feedback short circuit to ground failure
P1250	Fault of the rail pressure control by the IMV when the PWM is clamped by a high value
P1259	Fault of the rail pressure control by the IMV at high fuel delivery for high (positive) current trim
P1257	Fault of the rail pressure control by the IMV at high fuel delivery for low (negative) current trim
P1258	Fault of the rail pressure control by the IMV at low fuel delivery for high (positive) current trim
P1256	Fault of the rail pressure control by the IMV at low fuel delivery for low (negative) current trim
P0255	Open circuit failure on IMV
P0253	Short circuit to ground failure on IMV
P0254	Recovery short to battery fault of the actuator drive
P1000	fault set when feedback rail pressure is below the minimum required for injection during running.
P0113	Inlet Air Temp High failure
P0112	Inlet Air Temp Low failure
P0098	Intake plenum temperature sensor high fault.
P0097	Intake plenum temperature sensor low fault.
P1239	Intake Manifold Pressure drift to high
P1234	Intake Manifold Pressure drift to low
P0108	Intake Manifold Pressure sensor high fault
P0107	Intake Manifold Pressure sensor low fault
P2074	Intake Manifold Pressure over pressure
P1606	Detected memory integrity code fault
P0602	Confirmed memory integrity CVN fault

P1604	Confirmed memory integrity data fault
P1605	Confirmed memory integrity RAM fault
P1091	An over pressure fault has been detected when RPC_State = RPC_TL_IMV_ONLY or RPC_TL_RAIL_DISCHARGE
P1092	An over pressure fault has been detected in an undefined rail pressure control state
P0605	This fault is raised when the NVM diagnostic detect a hard error on the NVM
P0121	Pedal correlation failure
P1220	Pedal sensor fault-dragged to the limp home mode
P1221	Pedal sensor fault-dragged to the reduced torque mode
P2299	Pedal sensor fault, pedal stuck detected.
P0123	Pedal track 1 short circuit to vbat failure
P0122	Pedal track 1 short circuit to ground failure
P0223	Pedal track 2 short circuit to vbat failure
P0222	Pedal track 2 short circuit to ground failure
P0194	The delta pressure exceeds the limit (pressure drop P_L_RAILP_MAX_NEG_VAR_APV = -250 bar)
P1197	Confirmed frozen rail pressure reading fault
P1194	Gradient failure for rail pressure sensor
P0193	Rail Pressure Sensor - above the high threshold (open circuit or short circuit to Vbatt or GND wire cut)
P0192	Rail Pressure Sensor - below the low threshold (sensor short to gnd)
P1193	fault on the rail pressure sensor calibration (fault high)
P1192	fault on the rail pressure sensor calibration (fault low)
P1191	fault on the rail pressure sensor calibration (fault med)
P2459	Too frequent regenerations fault confirmed
P1196	Rail Pressure can not be built
P1206	Failure detected when RPC_State = RPC_TL_IMV_AND_CO and the rail pressure error is negative
P1207	Failure detected when RPC_State = RPC_TL_IMV_AND_CO and the rail pressure error is positive
P1208	Failure detected when RPC_State = RPC_TL_IMV_ONLY and the rail pressure error is negative
P1209	Failure detected when RPC_State = RPC_TL_IMV_ONLY and the rail pressure error is positive
P120E	Soft fault of the overpressure time out fault detection
P0616	Short circuit to ground confirmed failure on Starter Relay LSD drive output
P0617	Short circuit to battery confirmed failure on Starter Relay LSD drive output

P0615	Open circuit confirmed failure between Starter Relay HSD and LSD drive output
P0685	Stuck relay detected
P1110	fault on throttle valve for close hard stop learning out of range
P1111	fault on throttle valve for first open hard stop learning out of range
P1113	fault on throttle valve for close hard stop short deviation
P1114	fault on throttle valve for close hard stop short deviation
P2176	Soft fault on throttle valve learning fail after cleaning
P1116	fault on throttle valve for open hard stop long deviation
P1117	fault on throttle valve for open hard stop short deviation
P1122	fault on throttle valve antistuck control.
P0228	fault raised if the position read by the Throttle feedback sensor is over the defined working range
P0227	fault raised if the position read by the Throttle feedback sensor is under the defined working range
P2101	Flag to indicate a short circuit to load fault soft
P2103	Flag to indicate a short circuit to batterie fault soft
P2102	Flag to indicate a short circuit to ground fault soft
P1105	fault on Throttle valve position control.
P2111	fault raised on throttle valve failed antistuck procedure
P1544	turbin in temperature plausibility faults
P0546	Turbine inlet temperature sensor high fault
P0545	Turbine inlet temperature sensor low fault
P0641	Vext1 electrical failure
P0651	Vext2 electrical failure
P0697	Vext3 electrical failure
P104E	VGT close learning fault
P104A	Dual stage turbo turbin bypass sensor too high fault
P104B	Dual stage turbo turbin bypass sensor too low fault
P104C	VGT open learning fault
P0234	High threshold pressure for overboost detection
P104D	fault flag for VGTH Position Control.
P0299	High threshold pressure for underboost detection
P0045	High-pressure VGT actuator bypass open circuit failure
P0047	High-pressure VGT actuator bypass short circuit to ground failure
P0048	High-pressure VGT actuator bypass short circuit to vbat failure
P0630	VIN Code Not programmed.
P2269	Water in fuel fault

P2264	Water in fuel sensor fault
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3.1.5 4GA3-4D Gasoline Engine (Delphi system)

B0020	Unknown airbag signal pattern received fault
P0645	A/C Compressor Clutch relay control Open Circuit
P0646	A/C Compressor Clutch relay short circuit to ground fault
P0647	Short Circuit to Vbatt rec fault for A/C compressor relay driver
P0606	Analog/digital convert fault
B1020	Airbag high signal fault recovery
B1021	Airbag low signal fault recovery
P110A	Open circuit fault detected on AMF Chip Heating output
P110B	Short circuit to Vbat fault detected on AMF Chip Heating output
P1103	High threshold uncorrected air error without EGR.
P1102	Low threshold uncorrected air error without EGR.
P010D	High fault on AMF Ref Freq input (OC or SC2VBAT)
P010C	Low fault on AMF Ref Freq input (SC2G)
P0103	Amf fault detected (high)
P0102	Amf fault detected (low)
P1342	Camshaft/Crankshaft delta speed fault detected
P0344	Camshaft signal erratic fault detected
P1343	Camshaft signal lost fault detected
P1333	Crankshaft signal lost fault detected
P0372	Missing event fault detected
P1335	Crankshaft over-speed fault detected
P1336	APS fault-Event Gap missing
P1690	confirmed authorization key unmatched
P1694	Authentication with Immobiliser was not good : fault confirmed
P16A1	confirmed no Authentication result response condition: fault detected
P1699	Secret Key not programmed in ECM : fault detected
P2229	Atmospheric pressure sensor high fault soft.
P2228	Atmospheric pressure sensor low fault rec.
P2227	Detected Baro Sensor failure (IC returns DIAG1, DIAG2 or EEPROM error)
P15D0	Confirmed battery voltage failure
P0563	Confirmed pbatt high voltage failure

P0562	Confirmed pbatt low voltage failure
P0573	Confirmed failure of the Brake light switch stuck to True
P0572	Confirmed failure of the Brake light switch stuck to False
P0571	Confirmed failure of the Brake light switch
P0724	Confirmed failure of the Brake safety switch stuck to True
P0719	Confirmed failure of the Brake safety switch stuck to False
P0703	Confirmed failure of the Brake safety switch
P1504	Brake switch signal fault
P1286	High resistance level on injector 1
P1287	High resistance level on injector 3
P1288	High resistance level on injector 4
P1289	High resistance level on injector 2
P1296	Low resistance level on injector 1
P1297	Low resistance level on injector 3
P1298	Low resistance level on injector 4
P1299	Low resistance level on injector 2
U0073	CAN BUS0 bus off
P16C0	C2I Data error detected on injector 1
P16C1	C2I Data error detected on injector 3
P16C2	C2I Data error detected on injector 4
P16C3	C2I Data error detected on injector 2
P1608	C2I Ram integrity check
P1501	Vehicle speed signal issue via CAN bus
P0118	Coolant sensor high fault confirmed
P0117	Coolant sensor low fault confirmed
P0115	Global engine coolant temperature fault
P0566	Cruise cancel switch stucked
P0565	Cruise control switch stucked
P0579	Unplausible voltage level on cruise switch for a too long time
P0567	Cruise resume switch stucked
P0568	Cruise set switch stucked
P0578	Cruise speed limiter switch stucked
P3030	DOC light off for DOC low efficiency
P1450	DPF leak detected
P1456	Differential pressure plausibility 2 failure
P1457	Delta pressure sensor tubes inversion failure
P1458	Delta pressure sensor inlet tube clamped failure

P1455	DP Plausibility fault
P2455	High differential pressure sensor fault
P2454	Low differential pressure sensor fault
P1453	DPF is empty
P1546	Before particulate filter temperature sensor high fault rec.
P1545	Before particulate filter temperature sensor low fault rec.
P15B2	Before particulate filter temperature sensor plausibility fault rec.
P2002	DPF leak
P1452	DP Filter overloaded
P242F	DP Filter plugged
P246C	Torque reduction for DP Filter protection
P2458	Regen too frequent failure
P1454	Main relay fault-ECU Power cut not expected
P0401	EGR Air error too high failure
P0402	EGR Air error too low failure
P142E	fault on HP EGR valve antistuck control.
P245A	Open circuit failure detected on High-pressure EGR Cooler bypass
P245C	Short circuit to ground failure confirmed on High-pressure EGR Cooler bypass
P245D	Short circuit to Vbatt failure confirmed on High-pressure EGR Cooler bypass
P0406	Fault raised if the position read by the HP EGR feedback sensor is under the defined working range
P0405	Fault raised if the position read by the HP EGR feedback sensor is over the defined working range
P0487	Flag to indicate an open circuit fault rec
P1403	Flag to indicate short to load circuit fault rec
P0490	Flag to indicate short to battery circuit fault rec
P0489	Flag to indicate short to ground circuit fault rec
P0400	EGR low flow
P141A	fault on HP EGR valve for first close hard stop learning out of range
P141B	Recovery fault on HP EGR valve for first open hard stop learning out of range
P141C	fault on HP EGR valve for close hard stop long deviation
P141D	fault on HP EGR valve for close hard stop short deviation
P141E	fault on HP EGR valve for open hard stop long deviation
P141F	fault on HP EGR valve for open hard stop short deviation
P042E	fault raised if an object is stuck in the valve
P1407	fault on HP EGR valve position control.
P140A	fault raised if the HP EGR valve antistuck procedure is failed

P0219	Engine overspeed detected
P2428	fault flag when exhaust temperature is too high.
P2147	A flag to indicate a ground fault detected on the bank
P2150	A flag to indicate a ground fault detected on the bank
P2148	A flag to indicate a SC2VBATT fault detected on the bank
P2151	A flag to indicate a SC2VBATT fault detected on the bank
P1261	fault indicating that the output of the CBC closed loop is non-functional.
P0263	Cylinder balancing on injector 1 fault-Missfiring in the corresponding cylinder
P0269	Cylinder balancing on injector 3 fault-Missfiring in the corresponding cylinder
P0272	Cylinder balancing on injector 4 fault-Missfiring in the corresponding cylinder
P0266	Cylinder balancing on injector 2 fault-Missfiring in the corresponding cylinder
P1260	CBC trims have been on the limit for a given number of injections.
P0201	Injector 1 Electrical fault-Open circuit
P0203	Injector 3 Electrical fault-Open circuit
P0204	Injector 4 Electrical fault-Open circuit
P0202	Injector 2 Electrical fault-Open circuit
P1265	Injector 1 Electrical fault-Short circuit between HSD and LSD
P1267	Injector 3 Electrical fault-Short circuit between HSD and LSD
P1268	Injector 4 Electrical fault-Short circuit between HSD and LSD
P1266	Injector 2 Electrical fault-Short circuit between HSD and LSD
P0183	High failure on fuel temp sensor
P0182	Low failure on fuel temp sensor
P0382	Open circuit failure detected on Glow Plug output
P0384	short to load circuit failure detected on Glow Plug output
P0383	short to ground circuit failure detected on Glow Plug output
P1252	Inlet Metring Valve Trim Resistance high fault-Trim resistance is above the maximum threshold
P1251	Inlet Metring Valve Trim Resistance low fault-Trim resistance is below the minimum threshold
P0259	Inlet metring valve feedback short circuit to Vbat failure
P0258	Inlet meter valve feedback short circuit to ground failure
P1250	Fault of the rail pressure control by the IMV when the PWM is clamped by a high value
P1259	Fault of the rail pressure control by the IMV at high fuel delivery for high (positive) current trim
P1257	Fault of the rail pressure control by the IMV at high fuel delivery for low (negative) current trim

P1258	Fault of the rail pressure control by the IMV at low fuel delivery for high (positive) current trim
P1256	Fault of the rail pressure control by the IMV at low fuel delivery for low (negative) current trim
P0255	Open circuit failure on IMV
P0253	Short circuit to ground failure on IMV
P0254	Recovery short to battery fault of the actuator drive
P1000	fault set when feedback rail pressure is below the minimum required for injection during running.
P0113	Inlet Air Temp High failure
P0112	Inlet Air Temp Low failure
P0098	Intake plenum temperature sensor high fault.
P0097	Intake plenum temperature sensor low fault.
P1239	Intake Manifold Pressure drift to high
P1234	Intake Manifold Pressure drift to low
P0108	Intake Manifold Pressure sensor high fault
P0107	Intake Manifold Pressure sensor low fault
P2074	Intake Manifold Pressure over pressure
P1606	Detected memory integrity code fault
P0602	Confirmed memory integrity CVN fault
P1604	Confirmed memory integrity data fault
P1605	Confirmed memory integrity RAM fault
P1091	An over pressure fault has been detected when RPC_State = RPC_TL_IMV_ONLY or RPC_TL_RAIL_DISCHARGE
P1092	An over pressure fault has been detected in an undefined rail pressure control state
P0605	This fault is raised when the NVM diagnostic detect a hard error on the NVM
P0121	Pedal correlation failure
P1220	Pedal sensor fault-dragged to the limp home mode
P1221	Pedal sensor fault-dragged to the reduced torque mode
P2299	Pedal sensor fault, pedal stuck detected.
P0123	Pedal track 1 short circuit to vbat failure
P0122	Pedal track 1 short circuit to ground failure
P0223	Pedal track 2 short circuit to vbat failure
P0222	Pedal track 2 short circuit to ground failure
P0194	The delta pressure exceeds the limit (pressure drop P_L_RAILP_MAX_NEG_VAR_APV = -250 bar)
P1197	Confirmed frozen rail pressure reading fault

P1194	Gradient failure for rail pressure sensor
P0193	Rail Pressure Sensor - above the high threshold (open circuit or short circuit to Vbatt or GND wire cut)
P0192	Rail Pressure Sensor - below the low threshold (sensor short to gnd)
P1193	fault on the rail pressure sensor calibration (fault high)
P1192	fault on the rail pressure sensor calibration (fault low)
P1191	fault on the rail pressure sensor calibration (fault med)
P2459	Too frequent regenerations fault confirmed
P1196	Rail Pressure can not be built
P1206	Failure detected when RPC_State = RPC_TL_IMV_AND_CO and the rail pressure error is negative
P1207	Failure detected when RPC_State = RPC_TL_IMV_AND_CO and the rail pressure error is positive
P1208	Failure detected when RPC_State = RPC_TL_IMV_ONLY and the rail pressure error is negative
P1209	Failure detected when RPC_State = RPC_TL_IMV_ONLY and the rail pressure error is positive
P120E	Soft fault of the overpressure time out fault detection
P0616	Short circuit to ground confirmed failure on Starter Relay LSD drive output
P0617	Short circuit to battery confirmed failure on Starter Relay LSD drive output
P0615	Open circuit confirmed failure between Starter Relay HSD and LSD drive output
P0685	Stuck relay detected
P1110	fault on throttle valve for close hard stop learning out of range
P1111	fault on throttle valve for first open hard stop learning out of range
P1113	fault on throttle valve for close hard stop short deviation
P1114	fault on throttle valve for close hard stop short deviation
P2176	Soft fault on throttle valve learning fail after cleaning
P1116	fault on throttle valve for open hard stop long deviation
P1117	fault on throttle valve for open hard stop short deviation
P1122	fault on throttle valve antistuck control.
P0228	fault raised if the position read by the Throttle feedback sensor is over the defined working range
P0227	fault raised if the position read by the Throttle feedback sensor is under the defined working range
P2101	Flag to indicate a short circuit to load fault soft
P2103	Flag to indicate a short circuit to battery fault soft
P2102	Flag to indicate a short circuit to ground fault soft

P1105	fault on Throttle valve position control.
P2111	fault raised on throttle valve failed antistuck procedure
P1544	turbin in temperature plausibility faults
P0546	Turbine inlet temperature sensor high fault
P0545	Turbine inlet temperature sensor low fault
P0641	Vext1 electrical failure
P0651	Vext2 electrical failure
P0697	Vext3 electrical failure
P104E	VGT close learning fault
P104A	Dual stage turbo turbin bypass sensor too high fault
P104B	Dual stage turbo turbin bypass sensor too low fault
P104C	VGT open learning fault
P0234	High threshold pressure for overboost detection
P104D	fault flag for VGTH Position Control.
P0299	High threshold pressure forunderboost detection
P0045	High-pressure VGT actuator bypass open circuit failure
P0047	High-pressure VGT actuator bypass short circuit to ground failure
P0048	High-pressure VGT actuator bypass short circuit to vbat failure
P0630	VIN Code Not programmed.
P2269	Water in fuel fault
P2264	Water in fuel sensor fault

3.2 BOSCH ABS 9

C190004	ECU Voltage supply: high voltage
C190104	ECU Voltage supply: low voltage
C100004	ECU error (hardware, Micro-controller error)
C101008	ECU error (general software problem)
C006B06	ABS/ESP implausible control (control time too long, etc.)
C003108	Wheel-speed sensor, front left: (signal failure) out of range, lost, noise, Intermittent
C003200	Wheel-speed sensor, front left: open
C00A000	Wheel-speed sensor, front left: short to GND
C00A100	Wheel-speed sensor, front left: short to UBATT
C00A900	Wheel-speed sensor, front left: general error
C003408	Wheel-speed sensor, front right: (signal failure) out of range, lost, noise,

	Intermittent
C003500	Wheel-speed sensor, front right: open
C00A200	Wheel-speed sensor, front right: short to GND
C00A300	Wheel-speed sensor, front right: short to UBATT
C00AA00	Wheel-speed sensor, front right: general error
C003708	Wheel-speed sensor, rear left: (signal failure) out of range, lost, noise, Intermittent
C003800	Wheel-speed sensor, rear left: open
C00A400	Wheel-speed sensor, rear left: short to GND
C00A500	Wheel-speed sensor, rear left: short to UBATT
C00AB00	Wheel-speed sensor, rear left: general error
C003A08	Wheel-speed sensor, rear right: (signal failure) out of range, lost, noise, Intermittent
C003B00	Wheel-speed sensor, rear right: open
C00A600	Wheel-speed sensor, rear right: short to GND
C00A700	Wheel-speed sensor, rear right: short to UBATT
C00AC00	Wheel-speed sensor, rear right: general error
C109904	Wheel-speed sensor generic error (sensor swap, multiple sensors error)
C001004	valve fault, inlet valve FL
C001104	valve fault, outlet valve FL
C001404	valve fault, inlet valve FR
C001504	valve fault, outlet valve FR
C001804	valve fault, inlet valve RL
C001904	valve fault, outlet valve RL
C001C04	valve fault, inlet valve RR
C001D04	valve fault, outlet valve RR
C109504	Valve relay error
C002004	Return pump fault
C007208	General Valve fault (overheat protection, signal invalid, hardware fault)

3.3 IMMO(UAES)

B1500	antenna circuit short to ground
B1501	key authentication failed
B1502	Immo without storing any key information
B1503	PIN code is not written
B1504	SK2 does not Produce

B1506 SK1 does not Produce
 B1507 antenna circuit open
 B1508 IMMO Validation failed for ECM
 B150A Base station can not communication
 B150B IMMO unlock
 B150C antenna circuit short to B+ or ground
 B1500 antenna fault
 U0100 IMMO lost communication with ECM

3.4 SRS-CHQ

B1000 Electronic Control Unit (ECU) Internal Fault
 B1001 Configuration Fault
 B0026 Front Airbag Driver Loop Open
 B0022 Front Airbag Driver Loop Resistance Low
 B0024 Front Airbag Driver Loop Short to GND or Cross Coupling
 B0025 Front Airbag Driver Loop Short to Battery
 B0017 Front Airbag Passenger Loop Open
 B0016 Front Airbag Passenger Loop Resistance Low
 B0018 Front Airbag Passenger Loop Short to GND or Cross Coupling
 B0019 Front Airbag Passenger Loop Short to Battery
 B1328 Battery Voltage High
 B1327 Battery Voltage Low
 B0671 System Warning Lamp Circuit Short to GND or Open
 B0673 System Warning Lamp Circuit Short to Battery
 B0051 Front airbag Deployment Commanded
 B0052 AB ECU reaches the maximum usage, and it can not be reusable
 B0065 Belt Pretensioner Front Driver Loop Open
 B0064 Belt Pretensioner Front Driver Loop Resistance Low
 B0066 Belt Pretensioner Front Driver Loop Short to GND or Cross Coupling
 B0067 Belt Pretensioner Front Driver Loop Short to Battery
 B0058 Belt Pretensioner Front Passenger Loop Open
 B0057 Belt Pretensioner Front Passenger Loop Resistance Low
 B0059 Belt Pretensioner Front Passenger Loop Short to GND or Cross Coupling
 B0060 Belt Pretensioner Front Passenger Loop Short to Battery
 B0090 Passenger Deactivation Switch Short to Battery/Passenger Deactivation Switch Short/Passenger Deactivation Switch Open

B0091 Passenger Deactivation Switch Undefined
 B0681 Passenger Airbag Disabled Indicator Short to GND or Open
 B0683 Passenger Airbag Disabled Indicator Short to Battery
 B0041 Side Airbag Front Driver Loop Open
 B0040 Side Airbag Front Driver Loop Resistance Low
 B0045 Side Airbag Front Driver Loop Short to GND or Cross Coupling
 B0046 Side Airbag Front Driver Loop Short to Battery
 B0029 Side Airbag Front Passenger Loop Open
 B0028 Side Airbag Front Passenger Loop Resistance Low
 B0030 Side Airbag Front Passenger Loop Short to GND or Cross Coupling
 B0032 Side Airbag Front Passenger Loop Short to Battery
 B0077 Driver Side Impact Sensor (PASD) Performance fault or Cross Coupling
 B0079 Incorrect Driver Side Impact Sensor (PASD) Installed
 B0080 Driver Side Impact Sensor (PASD) Defect or Plausibility Fault
 B0078 Passenger Side Impact Sensor (PASP) Performance fault or Cross Coupling
 B0081 Incorrect Passenger Side Impact Sensor (PASP) Installed
 B0082 Passenger Side Impact Sensor (PASP) Defect or Plausibility Fault
 B0034 Side Airbag Deployment Commanded
 B0049 Crash Output of Controller Short to battery
 B0048 Crash Output of Controller Short to GND or Open

3.5 BCM

B1000	BCM Voltage Low
B1001	BCM Voltage High
U0073	CAN bus off
U0155	CAN ICM Communication time out
B1021	Interior lamp output open or short to GND
B1022	Interior lamp output short to battery or overload
B1028	High beam relay output open
B1029	High beam relay output short to battery or overload
B1008	Lock relay output open
B1009	Lock relay output short to battery or overload
B100B	Front wiper low speed relay output open
B100C	Front wiper low speed relay output short to battery or overload
B1030	Low beam light relay output open

B1031	Low beam light relay output short to battery or overload
B102A	Start against relay output open
B102B	Start against relay output short to battery or overload
B102C	Front wiper high speed relay output open
B102D	Front wiper high speed relay output short to battery or overload
B1002	Alarm bell relay output open
B1003	Alarm bell relay output short to battery or overload
B1004	Front fog light relay output open
B1005	Front fog light relay output short to battery or overload
B1006	Rear defrost relay output open
B1007	Rear defrost relay output short to battery or overload
B100E	Position lamp relay output open
B100F	Position lamp relay output short to battery or overload
B100A	Rear fog light relay output open
B100B	Rear fog light relay output short to battery or overload
B1032	Day light relay output open
B1033	Day light relay output short to battery or overload
B1034	Unlock relay output open
B1035	Unlock relay output short to battery or overload
B1036	window Power relay output open
B1037	window Power relay output short to battery or overload
B1038	Alarm light relay output open
B1039	Alarm light relay output short to battery or overload
B1040	Ignition ring illumination output open
B1041	Ignition ring illumination output short to GND

3.6 ICM

U0100	CAN EMS communication time out
U0140	CAN BCM communication time out
B1003	EEPROM error
U0073	CAN Bus off
B1002	Vehicle voltage low
B1001	Vehicle voltage High
B1004	Engine MIL lamp failure

B1005	EPC warning lamp failure
B1006	Brake warning lamp failure
B1007	Airbag lamp failure
B1008	ABS warning lamp failure
B1009	Drive side air belt lamp failure

3.7 TPMS

B1002	Battery electric quantity low
B1001	Battery electric quantity high
B1003	FL sensor error
B1004	FR sensor error
B1005	OUTRL_SS_FAULT
B1006	OUTRR_SS_FAULT
B1007	INRL_SS_FAULT
B1008	INRR_SS_FAULT
B1009	FL_SS_LOW_BAT
B100A	FR_SS_LOW_BAT
B100B	OUTRL_SS_LOW_BAT
B100C	OUTRR_SS_LOW_BAT
B100D	INRL_SS_LOW_BAT
B100E	INRR_SS_LOW_BAT
B100F	FL_SS_MUTE
B1010	FR_SS_MUTE
B1011	OUTRL_SS_MUTE
B1012	OUTRR_SS_MUTE
B1013	INRL_SS_MUTE
B1014	INRR_SS_MUTE
B1612	External EEPROM error
B1613	EEPROM_ERR
U0140	BCM_LOST_COM
U0155	ICM_DATA_INVALID
U0073	CAN bus off
U0072	CAN_TSC_ERR

3.8 PEPS

B130000	Internal control module EEPROM error
B130100	Immobilizer and ECM authentication failed
B130200	VIN Not Programmed
B130300	The antenna communication is disturbed
B130400	None transponder was detected
B130500	Immobilizer has none key was storage
B130600	Security code was not programmed
B150013	Open circuit of driver door outside LF antenna
B150213	Open circuit of Front internal LF antenna
B150313	Open circuit of Middle internal LF antenna
B150413	Open circuit of Rear internal LF antenna
B150513	Open circuit of Bumper LF antenna
B150600	Abnormality on switches of Engine switch
B150700	Abnormality in IG circuit
B150800	Abnormality in ACC circuit
B150900	Abnormality in brake signal
B150A00	Abnormality in vehicle speed signal
B150D00	Abnormality on ESCL LCK_GND
B150E00	Abnormality on ESCL LCK_PS
B150F00	ESCL anti scanning
B151000	Abnormality on wheel speed signal
B151100	Abnormality in ESCL lock
B151200	Abnormality in ESCL unlock
B151300	ESCL external failure
B151400	Abnormality on STAR power supply
U007388	Control Module Communication Bus Off
U014087	Lost communication with BCM
U130055	Software configuration Error
U015587	Lost communication of ICM
U010087	Lost communication of EMS
U000087	Lost communication of SJB
U018787	Lost communication of DVD
U010187	Lost communication of TCM
U106487	Lost communication of HVAC

U032987	Lost communication of ESCL
B100100	Vehicle voltage High
B100200	Vehicle voltage low
U014687	Lost communication of GW
U012987	Lost communication of ESC (by rounting frame from GW)
B150113	Open circuit of passenger door outside LF antenna
U040181	Clutch exception

3.9 ESCL

B120044	RAM memory fail
B120045	FLASH memory fail
B120046	EEPROM memory fail
B120048	RTOS fail
U007300	CAN Bus Off error
U014687	missing message BCM vehicle speed signal
U014087	missing message ESC vehicle speed signal
U014081	Checksum error of ESC vehicle speed
U014187	missing message EMS status
U007088	CAN SBC chip lost communication with microcontroller
B120249	Safety Mosfet doesn't work
B120464	ON HW & CAN don't match
B120564	Driver Door HW & CAN don't match
B120649	Bad voltage on DC Motor terminals
B120671	Full bridge overloaded
B120674	DC Motor doesn't reach its destination position in time
B100001	General Electrical Failure
B100002	SMP Failure
U042631	Authentication no signal
U042662	Authentication compare failure
B120749	Hall Sensor Failure
B120329	VSO Signal Invalid
B120326	VSO Signal missing (rate of change below threshold)
B100216	9V > VBATT
B100117	VBATT > 16V

3.10 ESP

C190004 ECU Voltage supply: high voltage
 C190104 ECU Voltage supply: low voltage
 C100004 ECU error (hardware, Micro-controller error)
 C101008 ECU error (general software problem)
 C006B06 ABS/ESP implausible control(control time too long, etc.)
 C003108 Wheel-speed sensor, front left:(signal failure) out of range, lost,noise, Intermittent
 C003200 Wheel-speed sensor, front left:Signal Line short to GND/Open;Supply Line open
 C00A000 Wheel-speed sensor, front left:Supply Line short to GND
 C00A100 Wheel-speed sensor, front left:Signal Line short to UBATT
 C00A900 Wheel-speed sensor, front left:general error
 C003408 Wheel-speed sensor, front right:(signal failure) out of range, lost,noise, Intermittent
 C003500 Wheel-speed sensor, front right:Signal Line short to GND/Open;Supply Line open
 C00A200 Wheel-speed sensor, front right:Supply Line short to GND
 C00A300 Wheel-speed sensor, front right:Signal Line short to UBATT
 C00AA00 Wheel-speed sensor, front right:general error
 C003708 Wheel-speed sensor, rear left:(signal failure)out of range,lost,noise,Intermittent
 C003800 Wheel-speed sensor, rear left:Signal Line short to GND/Open;Supply Line open
 C00A400 Wheel-speed sensor, rear left:Supply Line short to GND
 C00A500 Wheel-speed sensor, rear left:Signal Line short to UBATT
 C00AB00 Wheel-speed sensor, rear left:general error
 C003A08 Wheel-speed sensor, rear right:(signal failure) out of range, lost,noise, Intermittent
 C003B00 Wheel-speed sensor, rear right:Signal Line short to GND/Open;Supply Line open
 C00A600 Wheel-speed sensor, rear right:Supply Line short to GND
 C00A700 Wheel-speed sensor, rear right:Signal Line short to UBATT
 C00AC00 Wheel-speed sensor, rear right:General error
 C109904 Wheel-speed sensor generic error(sensor swap, multiple sensors error)
 C004460 Pressure sensor fault (Signal)
 C004510 Pressure sensor fault (Line)
 C004008 BLS fault: Plausibility
 U160108 BLS Net signal invalid value (via CAN)
 C006108 Lateral acceleration sensor:signal fault
 C006208 Longitudinal acceleration sensor:signal fault
 C006308 Yaw Rate Sensor: signal fault
 C019604 YRS sensor cluster fault(Hardware failure, Temperature ,range, internal fault)
 C00A800 YRS sensor cluster not calibrated or calibration failed

LAUNCH保留一切解释权，处置权，包括复印及传达至第三方。

U000500 CAN Bus overvoltage
 U000700 CAN Bus under voltage
 C100104 CAN hardware error
 U000104 CAN Bus Off error
 U100104 CAN fault passive
 U010004 CAN Error Passive
 U010008 CAN timeout EMS
 C106600 CAN data corrupt / signal invalid EMS
 C046008 SAS Calibration Error
 U012604 SAS fault (Signal)
 U012608 CAN data corrupt SAS (DLC,CRC, alive counter error, etc)
 U010104 CAN timeout TCU
 U010108 CAN data corrupt/signal invalid TCU
 C001004 valve fault, inlet valve FL
 C001104 valve fault, outlet valve FL
 C001404 valve fault, inlet valve FR
 C001504 valve fault, outlet valve FR
 C001804 valve fault, inlet valve RL
 C001904 valve fault, outlet valve RL
 C001C04 valve fault, inlet valve RR
 C001D04 valve fault, outlet valve RR
 C000104 Valve fault, USV1
 C000204 Valve fault, USV2
 C000304 Valve fault, HSV1
 C000404 Valve fault, HSV2
 C109504 Valve relay error
 C002004 Return pump fault
 C007208 General Valve fault (overheat protection, signal invalid,hardware fault)
 C104C04 PATA switch failure
 C121208 Variant Coding Error
 U160208 Handbrake signal invalid value(via CAN)
 C100300 Clutch switch error
 U160308 Clutch signal invalid value (via CAN)
 U160408 Reverse Gear Switch signal invalid value (via CAN)
 C108C08 Reverse Gear Switch signal
 U012308 Lost Communication With Yaw Rate Sensor Module
 U051308 Invalid Data Received From Yaw Rate Sensor Module
 C006102 External YRS sensor cluster of Lateral acceleration sensor: signal fault

C006202 External YRS sensor cluster of Longitudinal acceleration sensor: signal fault

C006302 External YRS sensor cluster of Yaw Rate Sensor: signal fault

U014008 CAN data corrupt BCM (DLC,CRC, alive counter error, etc)

U014004 CAN timeout BCM

U014608 CAN data corrupt Gateway (DLC,CRC, alive counter error, etc)

U014604 CAN timeout Gateway

U015504 CAN timeout ICM

U042308 CAN data corrupt ICM

U100304 CAN timeout EPB

U100308 CAN data corrupt EPB

C003129 The left front wheel speed sensor is connected with the position error

C003429 The right front wheel speed sensor is connected with the position error

C003729 The left rear wheel speed sensor is connected with the position error

C003A29 The right rear wheel speed sensor is connected with the position error

C101038 Two wheel speed sensor connected position error

U011408 TOD CAN data damaged (DLC, CRC, active counter faulty)

U011404 CAN timeout - TOD

C10AD08 Vacuum signal faulty

U012808 EPB CAN data damaged (DLC, CRC, active counter faulty)

U012804 CAN timeout - EPB

U010404 CAN timeout - ACC

U010408 ACC CAN data damaged (DLC, CRC, active counter faulty)

C007204 Brake disc overheat

U040108 Start_Stop/Cranking signal invalid

U014687 CAN timeout Gateway

U044686 Invalid signal received from Gateway / Data Corrupt

C115000 Brake Disc Overheat

C111929 ACM Powertrain Failure

U016404 CAN HVCU 1 Timeout

U042408 CAN HVCU 1 Data Corrupt

U016504 CAN HVCU 2 Timeout

U046608 CAN HVCU 2 Data Corrupt

U041802 Maximum generative torque signal failure

U041808 Actual generative torque signal failure

U120104 CAN AWD Timeout

U120108 CAN AWD Data Corrupt

C100000 Roller Bench Active/Misuse

3.11 AWD

U000188 CAN Bus Off

U012187 Missing ABS Message

U010087 Missing ECM Message

U041581 Invalid ABS Message

U040181 Invalid ECM Message

P173801 Mode Switch Invalid Position Fault(Multiple position, latching)

P178801 Shift Motor Encoder Invalid Position

P178013 Shift Motor Open Circuit

P178711 Shift Motor Position Short To Ground

P178112 Shift Motor Short to Battery

P178211 Shift Motor Short to Ground

P05601C System Voltage Out of Range

P178377 Shifting Timeout