

2008 BMW X5 48i

DTC INDEX 550i, 650i, 750i, 750Li & X5

DTC INDEX**550i, 650i, 750i, 750Li & X5****SELF-DIAGNOSTICS DTCS****SELF-DIAGNOSTICS DIAGNOSTIC TROUBLE CODE (DTC) LIST**

DTC	Description
<u>DTC P0010</u>	'A' Camshaft Position - Actuator Circuit/Open (Bank 1) (SIG)
<u>DTC P0011</u>	'A' Camshaft Position - Timing Over-Advanced or System Performance (Bank 1) (MIN)
<u>DTC P0012</u>	'A' Camshaft Position - Timing Over-Retarded (Bank 1) (PLAUS)
<u>DTC P0013</u>	'B' Camshaft Position - Actuator Circuit/Open (Bank 1) (SIG)
<u>DTC P0014</u>	'B' Camshaft Position - Timing Over-Advanced or System Performance (Bank 1) (MIN)
<u>DTC P0015</u>	'B' Camshaft Position - Timing Over-Retarded (Bank 1) (PLAUS)
<u>DTC P0016</u>	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A) (MIN)
<u>DTC P0017</u>	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor B) (MIN)
<u>DTC P0018</u>	Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor A) (MIN)
<u>DTC P0019</u>	Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor B) (MIN)
<u>DTC P0020</u>	'A' Camshaft Position - Actuator Circuit/Open (Bank 2) (SIG)
<u>DTC P0021</u>	'A' Camshaft Position - Timing Over-Advanced or System Performance (Bank 2) (MIN)
<u>DTC P0022</u>	'A' Camshaft Position - Timing Over-Retarded (Bank 2) (PLAUS)
<u>DTC P0023</u>	'B' Camshaft Position - Actuator Circuit/Open (Bank 2) (SIG)
<u>DTC P0024</u>	'B' Camshaft Position - Timing Over-Advanced or System Performance (Bank 2) (MIN)
<u>DTC P0025</u>	'B' Camshaft Position - Timing Over-Retarded (Bank 2) (PLAUS)
<u>DTC P0030</u>	HO2S Heater Control Circuit (Bank 1 Sensor 1) (SIG)
<u>DTC P0031</u>	HO2S Heater Control Circuit Low (Bank 1 Sensor 1) (MIN)
<u>DTC P0032</u>	HO2S Heater Control Circuit High (Bank 1 Sensor 1) (MAX)
<u>DTC P0036</u>	HO2S Heater Control Circuit (Bank 1 Sensor 2) (SIG)
<u>DTC P0037</u>	HO2S Heater Control Circuit Low (Bank 1 Sensor 2) (MIN)
<u>DTC P0038</u>	HO2S Heater Control Circuit High (Bank 1 Sensor 2) (MAX)
<u>DTC P0040</u>	O2 Sensor Signals Swapped Bank 1 Sensor 1 / Bank 2 Sensor 1 (PLAUS)
<u>DTC P0050</u>	HO2S Heater Control Circuit (Bank 2 Sensor 1) (SIG)
<u>DTC P0051</u>	HO2S Heater Control Circuit Low (Bank 2 Sensor 1) (MIN)
<u>DTC P0052</u>	HO2S Heater Control Circuit High (Bank 2 Sensor 1) (MAX)
<u>DTC P0056</u>	HO2S Heater Control Circuit (Bank 2 Sensor 2) (SIG)
<u>DTC P0057</u>	HO2S Heater Control Circuit Low (Bank 2 Sensor 2) (MIN)
<u>DTC P0058</u>	HO2S Heater Control Circuit High (Bank 2 Sensor 2) (MAX)
<u>DTC P0071</u>	Ambient Air Temperature Sensor Range/Performance (PLAUS)

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<u>DTC P0071</u>	Ambient Air Temperature Sensor Range/Performance (SIG)
<u>DTC P0072</u>	Ambient Air Temperature Sensor Circuit Low (MIN)
<u>DTC P0073</u>	Ambient Air Temperature Sensor Circuit High (MAX)
<u>DTC P0100</u>	Mass or Volume Air Flow 'A' Circuit (SIG)
<u>DTC P0102</u>	Mass or Volume Air Flow 'A' Circuit Low (MIN)
<u>DTC P0103</u>	Mass or Volume Air Flow 'A' Circuit High (MAX)
<u>DTC P0110</u>	Intake Air Temperature Sensor 1 Circuit (Bank 1) (PLAUS)
<u>DTC P0111</u>	Intake Air Temperature Sensor 1 Circuit Range/Performance (Bank 1) (PLAUS)
<u>DTC P0112</u>	Intake Air Temperature Sensor 1 Circuit Low (Bank 1) (MIN)
<u>DTC P0113</u>	Intake Air Temperature Sensor 1 Circuit High (Bank 1) (MAX)
<u>DTC P0115</u>	Engine Coolant Temperature Sensor 1 Circuit (SIG)
<u>DTC P0116</u>	Engine Coolant Temperature Sensor 1 Circuit Range/Performance (PLAUS)
<u>DTC P0117</u>	Engine Coolant Temperature Sensor 1 Circuit Low (MIN)
<u>DTC P0118</u>	Engine Coolant Temperature Sensor 1 Circuit High (MAX)
<u>DTC P0119</u>	Engine Coolant Temperature Sensor 1 Circuit Intermittent (PLAUS)
<u>DTC P0120</u>	Throttle/Pedal Position Sensor/Switch 'A' Circuit (PLAUS)
<u>DTC P0121</u>	Throttle/Pedal Position Sensor/Switch 'A' Circuit Range/Performance (PLAUS)
<u>DTC P0122</u>	Throttle/Pedal Position Sensor/Switch 'A' Circuit Low (MIN)
<u>DTC P0123</u>	Throttle/Pedal Position Sensor/Switch 'A' Circuit High (MAX)
<u>DTC P0127</u>	Intake Air Temperature Too High (MAX)
<u>DTC P0128</u>	Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature) (PLAUS)
<u>DTC P0130</u>	O2 Sensor Circuit (Bank 1 Sensor 1) (MAX)
<u>DTC P0131</u>	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1) (MIN)
<u>DTC P0132</u>	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1) (MAX)
<u>DTC P0133</u>	O2 Sensor Circuit Slow Response (Bank 1 Sensor 1) (MIN)
<u>DTC P0135</u>	O2 Sensor Heater Circuit (Bank 1 Sensor 1) (PLAUS)
<u>DTC P0136</u>	O2 Sensor Circuit (Bank 1 Sensor 2) (PLAUS)
<u>DTC P0137</u>	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 2) (MIN)
<u>DTC P0138</u>	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2) (MAX)
<u>DTC P0139</u>	O2 Sensor Circuit Slow Response (Bank 1 Sensor 2) (SIG)
<u>DTC P0139</u>	O2 Sensor Circuit Slow Response (Bank 1 Sensor 2) (SIG)
<u>DTC P013A</u>	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2) (MAX)
<u>DTC P013C</u>	O2 Sensor Slow Response - Rich to Lean (Bank 2 Sensor 2) (MAX)
<u>DTC P013E</u>	O2 Sensor Delayed Response - Rich to Lean (Bank 1 Sensor 2) (SIG)
<u>DTC P0140</u>	O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 2) (SIG)
<u>DTC P0141</u>	O2 Sensor Heater Circuit (Bank 1 Sensor 2) (PLAUS)
<u>DTC P014A</u>	O2 Sensor Delayed Response - Rich to Lean (Bank 2 Sensor 2) (SIG)
<u>DTC P0150</u>	O2 Sensor Circuit (Bank 2 Sensor 1) (MAX)
<u>DTC P0151</u>	O2 Sensor Circuit Low Voltage (Bank 2 Sensor 1) (MIN)
<u>DTC P0152</u>	O2 Sensor Circuit High Voltage (Bank 2 Sensor 1) (MAX)

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<u>DTC P0153</u>	O2 Sensor Circuit Slow Response (Bank 2 Sensor 1) (MIN)
<u>DTC P0155</u>	O2 Sensor Heater Circuit (Bank 2 Sensor 1) (PLAUS)
<u>DTC P0156</u>	O2 Sensor Circuit (Bank 2 Sensor 2) (PLAUS)
<u>DTC P0157</u>	O2 Sensor Circuit Low Voltage (Bank 2 Sensor 2) (MIN)
<u>DTC P0158</u>	O2 Sensor Circuit High Voltage (Bank 2 Sensor 2) (MAX)
<u>DTC P0159</u>	O2 Sensor Circuit Slow Response (Bank 2 Sensor 2) (SIG)
<u>DTC P0159</u>	O2 Sensor Circuit Slow Response (Bank 2 Sensor 2) (SIG)
<u>DTC P0160</u>	O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 2) (SIG)
<u>DTC P0161</u>	O2 Sensor Heater Circuit (Bank 2 Sensor 2) (PLAUS)
<u>DTC P0201</u>	Injector Circuit/Open - Cylinder 1 (SIG)
<u>DTC P0202</u>	Injector Circuit/Open - Cylinder 2 (SIG)
<u>DTC P0203</u>	Injector Circuit/Open - Cylinder 3 (SIG)
<u>DTC P0204</u>	Injector Circuit/Open - Cylinder 4 (SIG)
<u>DTC P0205</u>	Injector Circuit/Open - Cylinder 5 (SIG)
<u>DTC P0206</u>	Injector Circuit/Open - Cylinder 6 (SIG)
<u>DTC P0207</u>	Injector Circuit/Open - Cylinder 7 (SIG)
<u>DTC P0208</u>	Injector Circuit/Open - Cylinder 8 (SIG)
<u>DTC P0221</u>	Throttle/Pedal Position Sensor/Switch 'B' Circuit Range/Performance (PLAUS)
<u>DTC P0222</u>	Throttle/Pedal Position Sensor/Switch 'B' Circuit Low (MIN)
<u>DTC P0223</u>	Throttle/Pedal Position Sensor/Switch 'B' Circuit High (MAX)
<u>DTC P0261</u>	Cylinder 1 Injector Circuit Low (MIN)
<u>DTC P0262</u>	Cylinder 1 Injector Circuit High (MAX)
<u>DTC P0264</u>	Cylinder 2 Injector Circuit Low (MIN)
<u>DTC P0265</u>	Cylinder 2 Injector Circuit High (MAX)
<u>DTC P0267</u>	Cylinder 3 Injector Circuit Low (MIN)
<u>DTC P0268</u>	Cylinder 3 Injector Circuit High (MAX)
<u>DTC P0270</u>	Cylinder 4 Injector Circuit Low (MIN)
<u>DTC P0271</u>	Cylinder 4 Injector Circuit High (MAX)
<u>DTC P0273</u>	Cylinder 5 Injector Circuit Low (MIN)
<u>DTC P0274</u>	Cylinder 5 Injector Circuit High (MAX)
<u>DTC P0276</u>	Cylinder 6 Injector Circuit Low (MIN)
<u>DTC P0277</u>	Cylinder 6 Injector Circuit High (MAX)
<u>DTC P0279</u>	Cylinder 7 Injector Circuit Low (MIN)
<u>DTC P0280</u>	Cylinder 7 Injector Circuit High (MAX)
<u>DTC P0282</u>	Cylinder 8 Injector Circuit Low (MIN)
<u>DTC P0283</u>	Cylinder 8 Injector Circuit High (MAX)
<u>DTC P0298</u>	Engine Oil Over Temperature (MAX)
<u>DTC P0300</u>	Random/Multiple Cylinder Misfire Detected (MAX)
<u>DTC P0300</u>	Random/Multiple Cylinder Misfire Detected (MIN)
<u>DTC P0300</u>	Random/Multiple Cylinder Misfire Detected (PLAUS)
<u>DTC P0301</u>	Cylinder 1 Misfire Detected (MAX)

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	Cylinder 1 Misfire Detected (MIN)
<u>DTC P0301</u>	Cylinder 1 Misfire Detected (PLAUS)
<u>DTC P0302</u>	Cylinder 2 Misfire Detected (MAX)
<u>DTC P0302</u>	Cylinder 2 Misfire Detected (MIN)
<u>DTC P0302</u>	Cylinder 2 Misfire Detected (PLAUS)
<u>DTC P0303</u>	Cylinder 3 Misfire Detected (MAX)
<u>DTC P0303</u>	Cylinder 3 Misfire Detected (MIN)
<u>DTC P0303</u>	Cylinder 3 Misfire Detected (PLAUS)
<u>DTC P0304</u>	Cylinder 4 Misfire Detected (MAX)
<u>DTC P0304</u>	Cylinder 4 Misfire Detected (MIN)
<u>DTC P0304</u>	Cylinder 4 Misfire Detected (PLAUS)
<u>DTC P0305</u>	Cylinder 5 Misfire Detected (MAX)
<u>DTC P0305</u>	Cylinder 5 Misfire Detected (MIN)
<u>DTC P0305</u>	Cylinder 5 Misfire Detected (PLAUS)
<u>DTC P0306</u>	Cylinder 6 Misfire Detected (MAX)
<u>DTC P0306</u>	Cylinder 6 Misfire Detected (MIN)
<u>DTC P0306</u>	Cylinder 6 Misfire Detected (PLAUS)
<u>DTC P0307</u>	Cylinder 7 Misfire Detected (MAX)
<u>DTC P0307</u>	Cylinder 7 Misfire Detected (MIN)
<u>DTC P0307</u>	Cylinder 7 Misfire Detected (PLAUS)
<u>DTC P0308</u>	Cylinder 8 Misfire Detected (MAX)
<u>DTC P0308</u>	Cylinder 8 Misfire Detected (MIN)
<u>DTC P0308</u>	Cylinder 8 Misfire Detected (PLAUS)
<u>DTC P0313</u>	Misfire Detected With Low Fuel (MIN)
<u>DTC P0325</u>	Knock Sensor 1 Circuit (Bank 1 or Single Sensor) (PLAUS)
<u>DTC P0327</u>	Knock Sensor 1 Circuit Low (Bank 1 or Single Sensor) (MIN)
<u>DTC P0328</u>	Knock Sensor 1 Circuit High (Bank 1 or Single Sensor) (MAX)
<u>DTC P0335</u>	Crankshaft Position Sensor 'A' Circuit (SIG)
<u>DTC P0336</u>	Crankshaft Position Sensor 'A' Circuit Range/Performance (PLAUS)
<u>DTC P033A</u>	Knock Sensor 4 Circuit (Bank 2) (PLAUS)
<u>DTC P033C</u>	Knock Sensor 4 Circuit Low (Bank 2) (MIN)
<u>DTC P033D</u>	Knock Sensor 4 Circuit High (Bank 2) (MAX)
<u>DTC P0340</u>	Camshaft Position Sensor 'A' Circuit (Bank 1 or Single Sensor) (PLAUS)
<u>DTC P0341</u>	Camshaft Position Sensor 'A' Circuit Range/Performance (Bank 1 or Single Sensor) (SIG)
<u>DTC P0342</u>	Camshaft Position Sensor 'A' Circuit Low (Bank 1 or Single Sensor) (MIN)
<u>DTC P0343</u>	Camshaft Position Sensor 'A' Circuit High (Bank 1 or Single Sensor) (MAX)
<u>DTC P0345</u>	Camshaft Position Sensor 'A' Circuit (Bank 2) (PLAUS)
<u>DTC P0346</u>	Camshaft Position Sensor 'A' Circuit Range/Performance (Bank 2) (SIG)
<u>DTC P0347</u>	Camshaft Position Sensor 'A' Circuit Low (Bank 2) (MIN)
<u>DTC P0348</u>	Camshaft Position Sensor 'A' Circuit High (Bank 2) (MAX)

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<u>DTC P0351</u>	Ignition Coil 'A' Primary/Secondary Circuit (PLAUS)
<u>DTC P0352</u>	Ignition Coil 'B' Primary/Secondary Circuit (PLAUS)
<u>DTC P0353</u>	Ignition Coil 'C' Primary/Secondary Circuit (PLAUS)
<u>DTC P0354</u>	Ignition Coil 'D' Primary/Secondary Circuit (PLAUS)
<u>DTC P0355</u>	Ignition Coil 'E' Primary/Secondary Circuit (PLAUS)
<u>DTC P0356</u>	Ignition Coil 'F' Primary/Secondary Circuit (PLAUS)
<u>DTC P0357</u>	Ignition Coil 'G' Primary/Secondary Circuit (PLAUS)
<u>DTC P0358</u>	Ignition Coil 'H' Primary/Secondary Circuit (PLAUS)
<u>DTC P0365</u>	Camshaft Position Sensor 'B' Circuit (Bank 1) (PLAUS)
<u>DTC P0366</u>	Camshaft Position Sensor 'B' Circuit Range/Performance (Bank 1) (SIG)
<u>DTC P0367</u>	Camshaft Position Sensor 'B' Circuit Low (Bank 1) (MIN)
<u>DTC P0368</u>	Camshaft Position Sensor 'B' Circuit High (Bank 1) (MAX)
<u>DTC P0370</u>	Timing Reference High Resolution Signal 'A' (PLAUS)
<u>DTC P0372</u>	Timing Reference High Resolution Signal 'A' Too Few Pulses (SIG)
<u>DTC P0373</u>	Timing Reference High Resolution Signal 'A' Intermittent/Erratic Pulses (MAX)
<u>DTC P0390</u>	Camshaft Position Sensor 'B' Circuit (Bank 2) (PLAUS)
<u>DTC P0391</u>	Camshaft Position Sensor 'B' Circuit Range/Performance (Bank 2) (SIG)
<u>DTC P0392</u>	Camshaft Position Sensor 'B' Circuit Low Input (Bank 2) (MIN)
<u>DTC P0393</u>	Camshaft Position Sensor 'B' Circuit High Input (Bank 2) (MAX)
<u>DTC P0420</u>	Catalyst System Efficiency Below Threshold (Bank 1) (MIN)
<u>DTC P0430</u>	Catalyst System Efficiency Below Threshold (Bank 2) (MAX)
<u>DTC P0430</u>	Catalyst System Efficiency Below Threshold (Bank 2) (MIN)
<u>DTC P0441</u>	Evaporative Emission System Incorrect Purge Flow (MIN)
<u>DTC P0442</u>	Evaporative Emission System Leak Detected (Small Leak) (MAX)
<u>DTC P0444</u>	Evaporative Emission System Purge Control Valve Circuit Open (SIG)
<u>DTC P0456</u>	Evaporative Emission System Leak Detected (Very Small Leak) (MAX)
<u>DTC P0456</u>	Evaporative Emission System Leak Detected (Very Small Leak) (MIN)
<u>DTC P0458</u>	Evaporative Emission System Purge Control Valve Circuit Low (MIN)
<u>DTC P0459</u>	Evaporative Emission System Purge Control Valve Circuit High (MAX)
<u>DTC P0460</u>	Fuel Level Sensor 'A' Circuit (SIG)
<u>DTC P0461</u>	Fuel Level Sensor 'A' Circuit Range/Performance (PLAUS)
<u>DTC P0462</u>	Fuel Level Sensor 'A' Circuit Low (MIN)
<u>DTC P0463</u>	Fuel Level Sensor 'A' Circuit High (MAX)
<u>DTC P0477</u>	Exhaust Pressure Control Valve Low (MIN)
<u>DTC P0478</u>	Exhaust Pressure Control Valve High (MAX)
<u>DTC P0479</u>	Exhaust Pressure Control Valve Intermittent (SIG)
<u>DTC P0480</u>	Fan 1 Control Circuit (SIG)
<u>DTC P0500</u>	Vehicle Speed Sensor 'A' (MIN)
<u>DTC P0501</u>	Vehicle Speed Sensor 'A' Range/Performance (PLAUS)
<u>DTC P0503</u>	Vehicle Speed Sensor 'A' Intermittent/Erratic/High (MAX)
<u>DTC P0506</u>	Idle Air Control System RPM Lower Than Expected (MIN)

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	Idle Air Control System RPM Higher Than Expected (MAX)
<u>DTC P0512</u>	Starter Request Circuit (SIG)
<u>DTC P0520</u>	Engine Oil Pressure Sensor/Switch Circuit (PLAUS)
<u>DTC P0530</u>	A/C Refrigerant Pressure Sensor 'A' Circuit (SIG)
<u>DTC P0532</u>	A/C Refrigerant Pressure Sensor 'A' Circuit Low (MIN)
<u>DTC P0533</u>	A/C Refrigerant Pressure Sensor 'A' Circuit High (MAX)
<u>DTC P0560</u>	System Voltage (PLAUS)
<u>DTC P0561</u>	System Voltage Unstable (SIG)
<u>DTC P0562</u>	System Voltage Low (MIN)
<u>DTC P0563</u>	System Voltage High (MAX)
<u>DTC P0571</u>	Brake Switch 'A' Circuit (PLAUS)
<u>DTC P0597</u>	Thermostat Heater Control Circuit/Open (SIG)
<u>DTC P0598</u>	Thermostat Heater Control Circuit Low (MIN)
<u>DTC P0599</u>	Thermostat Heater Control Circuit High (MAX)
<u>DTC P0604</u>	Internal Control Module Random Access Memory (RAM) Error (PLAUS)
<u>DTC P0605</u>	Internal Control Module Read Only Memory (ROM) Error (PLAUS)
<u>DTC P0606</u>	ECM/PCM Processor (MIN)
<u>DTC P0606</u>	ECM/PCM Processor (PLAUS)
<u>DTC P0606</u>	ECM/PCM Processor (SIG)
<u>DTC P060A</u>	Internal Control Module Monitoring Processor Performance (MIN)
<u>DTC P061F</u>	Internal Control Module Throttle Actuator Controller Performance (PLAUS)
<u>DTC P0620</u>	Generator Control Circuit (MAX)
<u>DTC P0620</u>	Generator Control Circuit (SIG)
<u>DTC P0691</u>	Fan 1 Control Circuit Low (MIN)
<u>DTC P0692</u>	Fan 1 Control Circuit High (MAX)
<u>DTC P0704</u>	Clutch Switch Input Circuit (SIG)
<u>DTC P0A3B</u>	Generator Over Temperature (MAX)
<u>DTC P0A3B</u>	Generator Over Temperature (MAX)
<u>DTC P1000</u>	VVT-System Min. Stroke Adaptation Number of Stops Exceeded (MAX)
<u>DTC P1001</u>	VVT-Limp Home Request High Input (MAX)
<u>DTC P1002</u>	VVT-Limp Home Request Low Input (MIN)
<u>DTC P1003</u>	VVT-Limp Home Request Open Circuit (SIG)
<u>DTC P1004</u>	VVT-Guiding Sensor Solenoid Loss (Bank 1) (MAX)
<u>DTC P1005</u>	VVT-Guiding Sensor Reset Error (Bank 1) (MIN)
<u>DTC P1006</u>	VVT-Guiding Sensor Parity Error (Bank 1) (SIG)
<u>DTC P1007</u>	VVT-Guiding Sensor Gradient Error (Bank 1) (PLAUS)
<u>DTC P1008</u>	VVT-Guiding Sensor Solenoid Loss (Bank 2) (MAX)
<u>DTC P1009</u>	VVT-Guiding Sensor Reset Error (Bank 2) (MIN)
<u>DTC P1010</u>	VVT-Guiding Sensor Parity Error (Bank 2) (SIG)
<u>DTC P1011</u>	VVT-Guiding Sensor Gradient Error (Bank 2) (PLAUS)
<u>DTC P1012</u>	VVT-Reference Sensor Solenoid Loss (Bank 1) (MAX)

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	VVT-Reference Sensor Reset Error (Bank 1) (MIN)
<u>DTC P1014</u>	VVT-Reference Sensor Parity Error (Bank 1) (SIG)
<u>DTC P1015</u>	VVT-Reference Sensor Gradient Error (Bank 1) (PLAUS)
<u>DTC P1017</u>	VVT-Sensors Plausibility (Bank 1) (PLAUS)
<u>DTC P1018</u>	VVT-Sensors Plausibility (Bank 2) (PLAUS)
<u>DTC P1019</u>	VVT-Supply Voltage Sensors High Input (Bank 1) (MAX)
<u>DTC P1020</u>	VVT-Supply Voltage Sensors Low Input (Bank 1) (MIN)
<u>DTC P1021</u>	VVT-Supply Voltage Sensors High Input (Bank 2) (MAX)
<u>DTC P1022</u>	VVT-Supply Voltage Sensors Low Input (Bank 2) (MIN)
<u>DTC P1023</u>	VVT-Self-Learning Function Faulty Adjustment Range (Bank 1) (MAX)
<u>DTC P1024</u>	VVT-Self-Learning Function Faulty Lower Learning Range (Bank 1) (MIN)
<u>DTC P1025</u>	VVT-Self-Learning Function No Positions Stored (Bank 1) (SIG)
<u>DTC P1026</u>	VVT-Self-Learning Function Faulty Adjustment Range (Bank 2) (MAX)
<u>DTC P1027</u>	VVT-Self-Learning Function Faulty Lower Learning Range (Bank 2) (MIN)
<u>DTC P1028</u>	VVT-Self-Learning Function No Positions Stored (Bank 2) (SIG)
<u>DTC P1030</u>	VVT-Actuator Monitoring Position Control, Control Deviation (Bank 1) (SIG)
<u>DTC P1031</u>	VVT-Actuator Monitoring Recognition of Direction of Rotation Plausibility (Bank 1) (PLAUS)
<u>DTC P1033</u>	VVT-Actuator Monitoring Position Control, Control Deviation (Bank 2) (SIG)
<u>DTC P1034</u>	VVT-Actuator Monitoring Recognition of Direction of Rotation Plausibility (Bank 2) (PLAUS)
<u>DTC P1035</u>	VVT-CAN-Message Monitoring Faulty Desired Message (Bank 1) (MAX)
<u>DTC P1036</u>	VVT-CAN-Timeout VVT-Desired Message (Bank 1) (SIG)
<u>DTC P1037</u>	VVT-CAN-Timeout VVT-Message (Bank 1) (PLAUS)
<u>DTC P1038</u>	VVT-CAN-Message Monitoring Faulty Desired Message (Bank 2) (MAX)
<u>DTC P1039</u>	VVT-CAN-Timeout VVT-Desired Message (Bank 2) (SIG)
<u>DTC P1040</u>	VVT-CAN-Timeout VVT-Message (Bank 2) (PLAUS)
<u>DTC P1041</u>	Internal VVT-Control Module EEPROM Error (Bank 1) (MAX)
<u>DTC P1042</u>	Internal VVT-Control Module Random Access Memory (RAM) Error (Bank 1) (MIN)
<u>DTC P1043</u>	Internal VVT-Control Module Read Only Memory (ROM) Error (Bank 1) (PLAUS)
<u>DTC P1044</u>	Internal VVT-Control Module EEPROM Error (Bank 2) (MAX)
<u>DTC P1045</u>	Internal VVT-Control Module Random Access Memory (RAM) Error (Bank 2) (MIN)
<u>DTC P1046</u>	Internal VVT-Control Module Read Only Memory (ROM) Error (Bank 2) (PLAUS)
<u>DTC P1047</u>	VVT-Control Circuit High Input (Bank 1) (MAX)
<u>DTC P1048</u>	VVT-Control Circuit Low Input (Bank 1) (MIN)
<u>DTC P1049</u>	VVT-Control Circuit Engine Cables Short Circuit (Bank 1) (SIG)
<u>DTC P1050</u>	2898 of 3160 VVT-Control Circuit (Bank 1) (PLAUS)

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<u>DTC P1051</u>	VVT-Control Circuit High Input (Bank 2) (MAX)
<u>DTC P1052</u>	VVT-Control Circuit Low Input (Bank 2) (MIN)
<u>DTC P1053</u>	VVT-Control Circuit Engine Cables Short Circuit (Bank 2) (SIG)
<u>DTC P1054</u>	VVT-Control Circuit (Bank 2) (PLAUS)
<u>DTC P1055</u>	VVT-Supply Voltage Control Motor High Input (Bank 1) (MAX)
<u>DTC P1056</u>	VVT-Supply Voltage Control Motor Low Input (Bank 1) (MIN)
<u>DTC P1057</u>	VVT-Supply Voltage Control Motor Electrical (Bank 1) (PLAUS)
<u>DTC P1058</u>	VVT-Supply Voltage Control Motor High Input (Bank 2) (MAX)
<u>DTC P1059</u>	VVT-Supply Voltage Control Motor Low Input (Bank 2) (MIN)
<u>DTC P1060</u>	VVT-Supply Voltage Control Motor Electrical (Bank 2) (PLAUS)
<u>DTC P1061</u>	VVT-Limp Home Request RPM and Charge Limitation (Bank 1) (MAX)
<u>DTC P1062</u>	VVT-Limp Home Request Full Stroke Position not Reached (Bank 1) (MIN)
<u>DTC P1063</u>	VVT-Limp Home Request Air Mass Plausibility (Bank 1) (SIG)
<u>DTC P1064</u>	VVT-Value Comparison Starting Position/Parking Position Plausibility (Bank 1) (MAX)
<u>DTC P1067</u>	VVT-Reference Sensor Solenoid Loss (Bank 2) (MAX)
<u>DTC P1068</u>	VVT-Reference Sensor Reset Error (Bank 2) (MIN)
<u>DTC P1069</u>	VVT-Reference Sensor Parity Error (Bank 2) (SIG)
<u>DTC P1070</u>	VVT-Reference Sensor Gradient Error (Bank 2) (PLAUS)
<u>DTC P1071</u>	Internal VVT-Control Module Watchdog or Temperature Sensor Error (Bank 1) (SIG)
<u>DTC P1072</u>	Internal VVT-Control Module Watchdog or Temperature Sensor Error (Bank 2) (SIG)
<u>DTC P1073</u>	VVT-Sensors Data Conformity (Bank 1) (SIG)
<u>DTC P1074</u>	VVT-Sensors Data Conformity (Bank 2) (SIG)
<u>DTC P1075</u>	VVT-Overload Protection (Bank 1) (PLAUS)
<u>DTC P1076</u>	VVT-Overload Protection ECU-Temperature High Input (Bank 1) (SIG)
<u>DTC P1078</u>	VVT-Overload Protection Control Motor Current High Input (Bank 1) (MAX)
<u>DTC P1079</u>	VVT-Overload Protection (Bank 2) (PLAUS)
<u>DTC P1080</u>	VVT-Overload Protection ECU-Temperature High Input (Bank 2) (SIG)
<u>DTC P1081</u>	VVT-Overload Protection Control Motor Temperature High Input (Bank 2) (MIN)
<u>DTC P1082</u>	VVT-Overload Protection Control Motor Current High Input (Bank 2) (MAX)
<u>DTC P1104</u>	Differential Pressure Sensor Intake Manifold Pressure Too Low (Bank 1) (MIN)
<u>DTC P1104</u>	Differential Pressure Sensor Intake Manifold Pressure Too Low (Bank 1) (MIN)
<u>DTC P1105</u>	Differential Pressure Sensor Intake Manifold Pressure Too High (Bank 1) (MAX)
<u>DTC P1105</u>	Differential Pressure Sensor Intake Manifold Pressure Too High (Bank 1) (MAX)
<u>DTC P110F</u>	Ambient Air Temperature Sensor Faulty CAN Signal (SIG)
<u>DTC P111E</u>	Intake Air Temperature Sensor 1 Maximum Temperature Implausible (Bank 1) (MAX)
<u>DTC P111F</u>	Intake Air Temperature Sensor 1 Minimum Temperature Implausible (Bank 1)

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	(MIN)
<u>DTC P112A</u>	Engine Coolant Temperature Sensor 1 Maximum Temperature Implausible (MAX)
<u>DTC P112B</u>	Engine Coolant Temperature Sensor 1 Minimum Temperature Implausible (MIN)
<u>DTC P1130</u>	O2 Sensor Circuit Dynamic Test (Bank 1 Sensor 2) (PLAUS)
<u>DTC P1131</u>	O2 Sensor Circuit Dynamic Test (Bank 2 Sensor 2) (PLAUS)
<u>DTC P113A</u>	Mass or Volume Air Flow 1 Correction Signal Plausibility Period Too Long (MAX)
<u>DTC P113B</u>	Mass or Volume Air Flow 1 Correction Signal Plausibility Period Too Short (MIN)
<u>DTC P115A</u>	Mass or Volume Air Flow 'A' Maximum Exceeded (MAX)
<u>DTC P115B</u>	Mass or Volume Air Flow 'A' Minimum Fallen Below (MIN)
<u>DTC P115C</u>	Mass or Volume Air Flow 'A' Air Mass Too Low Compared to Model (SIG)
<u>DTC P115D</u>	Mass or Volume Air Flow 'A' Air Mass Too High Compared to Model (PLAUS)
<u>DTC P1197</u>	Differential Pressure Sensor Intake Manifold High Input (Bank 1) (MAX)
<u>DTC P1198</u>	Differential Pressure Sensor Intake Manifold Low Input (Bank 1) (MIN)
<u>DTC P1199</u>	Differential Pressure Sensor Intake Manifold Pressure Plausibility (Bank 1) (PLAUS)
<u>DTC P1230</u>	Fuel Pump Relay Primary Circuit (SIG)
<u>DTC P1234</u>	Fuel Pump Relay Primary Circuit Low (MIN)
<u>DTC P1236</u>	Fuel Pump Relay Primary Circuit High (MAX)
<u>DTC P1327</u>	Knock Sensor 2 Circuit Low Input (Bank 1) (MIN)
<u>DTC P1328</u>	Knock Sensor 2 Circuit High Input (Bank 1) (MAX)
<u>DTC P1329</u>	Knock Sensor 3 Circuit Low Input (MIN)
<u>DTC P1330</u>	Knock Sensor 3 Circuit High Input (MAX)
<u>DTC P135C</u>	Knock Sensor 2 Circuit (Bank 1) (PLAUS)
<u>DTC P1377</u>	Camshaft Position Sensor Master Camshaft not Defined (SIG)
<u>DTC P1381</u>	Control Module Self-Test, Knock Control Offset (Bank 1) (PLAUS)
<u>DTC P1382</u>	Control Module Self-Test, Knock Control Test Pulse (Bank 1) (MAX)
<u>DTC P1384</u>	Knock Sensor 3 Circuit (PLAUS)
<u>DTC P1386</u>	Control Module Self-Test, Knock Control Circuit Baseline Test (Bank 1) (MIN)
<u>DTC P1434</u>	Diagnostic Module Tank Leakage (DM-TL) (SIG)
<u>DTC P1447</u>	Diagnostic Module Tank Leakage (DM-TL) Pump Current Too High During Switching Solenoid Test (PLAUS)
<u>DTC P1448</u>	Diagnostic Module Tank Leakage (DM-TL) Pump Current Too Low (MIN)
<u>DTC P1449</u>	Diagnostic Module Tank Leakage (DM-TL) Pump Current Too High (MAX)
<u>DTC P14C4</u>	Radiator Shutter (Upper) Mechanical (MIN)
<u>DTC P14C5</u>	Radiator Shutter (Upper) Hardware Defect (MAX)
<u>DTC P14C6</u>	Radiator Shutter (Lower) Electrical (MAX)
<u>DTC P150A</u>	Battery Sensor BSD (Bit Serial Data Interface) Extended Communication Circuit 2900 of 3160 (MAX)

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<u>DTC P150B</u>	Battery Sensor BSD (Bit Serial Data Interface) Communication Circuit (SIG)
<u>DTC P150B</u>	Battery Sensor BSD (Bit Serial Data Interface) Communication Circuit (SIG)
<u>DTC P150B</u>	Battery Sensor BSD (Bit Serial Data Interface) Communication Circuit (SIG)
<u>DTC P150B</u>	Battery Sensor BSD (Bit Serial Data Interface) Communication Circuit (SIG)
<u>DTC P150C</u>	Battery Sensor Firmware Implausible (PLAUS)
<u>DTC P150D</u>	Battery Sensor Temperature Error (MAX)
<u>DTC P150E</u>	Battery Sensor Voltage Error (SIG)
<u>DTC P150F</u>	Battery Sensor Current Error (PLAUS)
<u>DTC P1511</u>	DISA (Differentiated Intake Manifold) Control Circuit Electrical (PLAUS)
<u>DTC P1512</u>	DISA (Differentiated Intake Manifold) Control Circuit Signal Low (MIN)
<u>DTC P1513</u>	DISA (Differentiated Intake Manifold) Control Circuit Signal High (MAX)
<u>DTC P1515</u>	Engine Off Timer Plausibility (PLAUS)
<u>DTC P1517</u>	Rough Road Detection No Wheel Speed Signal (SIG)
<u>DTC P1518</u>	Rough Road Detection Wheel Speed Too High (MAX)
<u>DTC P151A</u>	Battery Sensor Terminal 15/30 Wakeup Circuit (MAX)
<u>DTC P151B</u>	Battery Sensor Wakeup Circuit (PLAUS)
<u>DTC P151C</u>	Battery Sensor System Error (SIG)
<u>DTC P151F</u>	CAN Message Monitoring Vehicle Speed Sensor Timeout (SIG)
<u>DTC P1521</u>	Engine Oil Quality Sensor Communication Error (SIG)
<u>DTC P1521</u>	Engine Oil Quality Sensor Communication Error (SIG)
<u>DTC P152A</u>	Vehicle Speed Sensor, Speed Too Low Compared to Reference under Load (MAX)
<u>DTC P152B</u>	Vehicle Speed Sensor, Speed Too Low Compared to Reference in Coast Down (MIN)
<u>DTC P1535</u>	DISA (Differentiated Intake Manifold) Coil Temperature Limit Value Exceeded (PLAUS)
<u>DTC P1536</u>	DISA (Differentiated Intake Manifold) Controller Monitoring, Control Deviation (SIG)
<u>DTC P1537</u>	DISA (Differentiated Intake Manifold) Potentiometer Voltage in Lower Diagnosis Range (MIN)
<u>DTC P1538</u>	DISA (Differentiated Intake Manifold) Potentiometer Voltage in Upper Diagnosis Range (MAX)
<u>DTC P1539</u>	DISA (Differentiated Intake Manifold) Coil Temperature Threshold Exceeded (MAX)
<u>DTC P1539</u>	DISA (Differentiated Intake Manifold) Coil Temperature Threshold Exceeded (MIN)
<u>DTC P1539</u>	DISA (Differentiated Intake Manifold) Coil Temperature Threshold Exceeded (MIN)
<u>DTC P1551</u>	Engine Off Timer Timeout (SIG)
<u>DTC P1561</u>	Cold Start Idle Air Control System RPM Lower Than Expected (Bank 1) (MIN)
<u>DTC P1562</u>	Cold Start Idle Air Control System RPM Higher Than Expected (Bank 1) (MAX)
<u>DTC P1577</u>	Speed Indication Signal Instrument Pack (MAX)

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<u>DTC P1578</u>	Speed Indication Instrument Pack/ASC Signal Correlation (PLAUS)
<u>DTC P1586</u>	Engine Oil Quality Sensor Temperature Measurement (MAX)
<u>DTC P1587</u>	Engine Oil Quality Sensor Level Measurement (MIN)
<u>DTC P1588</u>	Engine Oil Quality Sensor Permeability Measurement (PLAUS)
<u>DTC P1603</u>	Control Module Self-Test, Torque Monitoring (PLAUS)
<u>DTC P160A</u>	Powermanagement Exhaustive Discharge (MIN)
<u>DTC P160B</u>	Powermanagement Defective (PLAUS)
<u>DTC P160C</u>	Powermanagement Overvoltage (MAX)
<u>DTC P160D</u>	Powermanagement Undervoltage (MIN)
<u>DTC P160E</u>	Powermanagement Operation Without Battery (SIG)
<u>DTC P160F</u>	Powermanagement No-Load Current Error (PLAUS)
<u>DTC P1614</u>	Serial Communication Link ACC (Adaptive Cruise Control) (SIG)
<u>DTC P1631</u>	Throttle Valve Actuator Spring Test (Bank 1) (MIN)
<u>DTC P1633</u>	Throttle Valve Adaptation Limp-Home Position Unknown (Bank 1) (PLAUS)
<u>DTC P1634</u>	Throttle Valve Adaptation Spring Test Failed (Bank 1) (MAX)
<u>DTC P1635</u>	Throttle Valve Adaptation Lower Mechanical Stop not Adapted (Bank 1) (PLAUS)
<u>DTC P1637</u>	Throttle Valve Position Control, Control Deviation (Bank 1) (PLAUS)
<u>DTC P1638</u>	Throttle Valve Position Control Throttle Stuck Temporarily (Bank 1) (MIN)
<u>DTC P1639</u>	Throttle Valve Position Control Throttle Stuck Permanently (Bank 1) (MAX)
<u>DTC P163C</u>	Voltage Monitoring Control Module Overvoltage (MAX)
<u>DTC P163D</u>	Voltage Monitoring Control Module Cut-off Detected (MIN)
<u>DTC P163E</u>	Voltage Monitoring Control Module Communication Error (SIG)
<u>DTC P1641</u>	Throttle Valve Adaptation Stop due to Environmental Conditions (MAX)
<u>DTC P1642</u>	Throttle Valve Adaptation Stop due to Environmental Values (MIN)
<u>DTC P1643</u>	Throttle Valve Actuator Start Test Amplifier Balancing Plausibility (PLAUS)
<u>DTC P1644</u>	Throttle Valve Adaptation Stop Relearning Lower Mechanical Stop (Bank 1) (PLAUS)
<u>DTC P1645</u>	Internal Control Module Random Access Memory (RAM) Reading Error (MAX)
<u>DTC P1649</u>	Internal Control Module Random Access Memory (RAM) Writing Error (MIN)
<u>DTC P1650</u>	Start While Engine is Running (SIG)
<u>DTC P1655</u>	EWS (Electronic Immobilizer) Rolling Code Faulty Storage (MAX)
<u>DTC P1660</u>	EWS (Electronic Immobilizer) Telegram Error (MIN)
<u>DTC P1661</u>	Timeout EWS (Electronic Immobilizer)-Telegram (SIG)
<u>DTC P1662</u>	EWS (Electronic Immobilizer) Telegram Parity Error (PLAUS)
<u>DTC P1663</u>	EWS (Electronic Immobilizer) Rolling Code Faulty Storage in EEPROM (MIN)
<u>DTC P1664</u>	EWS (Electronic Immobilizer) Writing/Reading Error EEPROM (SIG)
<u>DTC P1665</u>	EWS (Electronic Immobilizer) Tampering via Rolling Code (PLAUS)
<u>DTC P1666</u>	EWS (Electronic Immobilizer) Tampering via KWP2000UE / Start Value not Accepted (SIG)
<u>DTC P1667</u>	EWS (Electronic Immobilizer) Start Value not yet Programmed (MIN)

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<u>DTC P1668</u>	EWS (Electronic Immobilizer) Start Value Destroyed (MAX)
<u>DTC P1676</u>	ACC (Adaptive Cruise Control) Signal Plausibility (PLAUS)
<u>DTC P1677</u>	ACC (Adaptive Cruise Control) No Activity Detected (MIN)
<u>DTC P1678</u>	ACC (Adaptive Cruise Control) no Response to ACC Cut-Off (MAX)
<u>DTC P1680</u>	Electronic Throttle Control Monitor Level 2/3 ADC Processor Fault (SIG)
<u>DTC P1681</u>	Electronic Throttle Control Monitor Level 2/3 Engine Speed Calculation Error (PLAUS)
<u>DTC P1686</u>	Electronic Throttle Control Monitor Level 2/3 Pedal Position Sensor Diagnostic Error (PLAUS)
<u>DTC P16A4</u>	Timeout Control Module Knock Sensor SPI-Bus (PLAUS)
<u>DTC P1721</u>	CAN Timeout ASC/DSC (SIG)
<u>DTC P2065</u>	Fuel Level Sensor 'B' Circuit (SIG)
<u>DTC P2067</u>	Fuel Level Sensor 'B' Circuit Low (MIN)
<u>DTC P2068</u>	Fuel Level Sensor 'B' Circuit High (MAX)
<u>DTC P2088</u>	'A' Camshaft Position Actuator Control Circuit Low (Bank 1) (MIN)
<u>DTC P2089</u>	'A' Camshaft Position Actuator Control Circuit High (Bank 1) (MAX)
<u>DTC P2090</u>	'B' Camshaft Position Actuator Control Circuit Low (Bank 1) (MIN)
<u>DTC P2091</u>	'B' Camshaft Position Actuator Control Circuit High (Bank 1) (MAX)
<u>DTC P2092</u>	'A' Camshaft Position Actuator Control Circuit Low (Bank 2) (MIN)
<u>DTC P2093</u>	'A' Camshaft Position Actuator Control Circuit High (Bank 2) (MAX)
<u>DTC P2094</u>	'B' Camshaft Position Actuator Control Circuit Low (Bank 2) (MIN)
<u>DTC P2095</u>	'B' Camshaft Position Actuator Control Circuit High (Bank 2) (MAX)
<u>DTC P2096</u>	Post Catalyst Fuel Trim System Too Lean (Bank 1) (MIN)
<u>DTC P2097</u>	Post Catalyst Fuel Trim System Too Rich (Bank 1) (MAX)
<u>DTC P2098</u>	Post Catalyst Fuel Trim System Too Lean (Bank 2) (Min)
<u>DTC P2099</u>	Post Catalyst Fuel Trim System Too Rich (Bank 2) (MAX)
<u>DTC P2100</u>	Throttle Actuator 'A' Control Motor Circuit/Open (SIG)
<u>DTC P2102</u>	Throttle Actuator 'A' Control Motor Circuit Low (MIN)
<u>DTC P2103</u>	Throttle Actuator 'A' Control Motor Circuit High (MAX)
<u>DTC P2120</u>	Throttle/Pedal Position Sensor/Switch 'D' Circuit (PLAUS)
<u>DTC P2122</u>	Throttle/Pedal Position Sensor/Switch 'D' Circuit Low (MIN)
<u>DTC P2123</u>	Throttle/Pedal Position Sensor/Switch 'D' Circuit High (MAX)
<u>DTC P2127</u>	Throttle/Pedal Position Sensor/Switch 'E' Circuit Low (MIN)
<u>DTC P2128</u>	Throttle/Pedal Position Sensor/Switch 'E' Circuit High (MAX)
<u>DTC P2138</u>	Throttle/Pedal Position Sensor/Switch 'D' / 'E' Voltage Correlation (PLAUS)
<u>DTC P2177</u>	System Too Lean Off Idle (Bank 1) (MAX)
<u>DTC P2177</u>	System Too Lean Off Idle (Bank 1) (MAX)
<u>DTC P2178</u>	System Too Rich Off Idle (Bank 1) (MIN)
<u>DTC P2178</u>	System Too Rich Off Idle (Bank 1) (MIN)
<u>DTC P2179</u>	2903 of 3160 System Too Lean Off Idle (Bank 2) (MAX)
<u>DTC P2179</u>	System Too Lean Off Idle (Bank 2) (MAX)

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<u>DTC P2180</u>	System Too Rich Off Idle (Bank 2) (MIN)
<u>DTC P2180</u>	System Too Rich Off Idle (Bank 2) (MIN)
<u>DTC P2183</u>	Engine Coolant Temperature Sensor 2 Circuit Range/Performance (PLAUS)
<u>DTC P2184</u>	Engine Coolant Temperature Sensor 2 Circuit Low (MIN)
<u>DTC P2185</u>	Engine Coolant Temperature Sensor 2 Circuit High (MAX)
<u>DTC P2187</u>	System Too Lean at Idle (Bank 1) (MAX)
<u>DTC P2187</u>	System Too Lean at Idle (Bank 1) (SIG)
<u>DTC P2188</u>	System Too Rich at Idle (Bank 1) (MIN)
<u>DTC P2188</u>	System Too Rich at Idle (Bank 1) (PLAUS)
<u>DTC P2189</u>	System Too Lean at Idle (Bank 2) (MAX)
<u>DTC P2189</u>	System Too Lean at Idle (Bank 2) (SIG)
<u>DTC P2190</u>	System Too Rich at Idle (Bank 2) (MIN)
<u>DTC P2190</u>	System Too Rich at Idle (Bank 2) (PLAUS)
<u>DTC P2191</u>	System Too Lean at Higher Load (Bank 1) (MAX)
<u>DTC P2192</u>	System Too Rich at Higher Load (Bank 1) (MIN)
<u>DTC P2193</u>	System Too Lean at Higher Load (Bank 2) (MAX)
<u>DTC P2194</u>	System Too Rich At Higher Load (Bank 2) (MIN)
<u>DTC P2195</u>	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1) (PLAUS)
<u>DTC P2196</u>	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1) (SIG)
<u>DTC P2197</u>	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 1) (PLAUS)
<u>DTC P2198</u>	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 1) (SIG)
<u>DTC P2228</u>	Barometric Pressure Circuit Low (MIN)
<u>DTC P2229</u>	Barometric Pressure Circuit High (MAX)
<u>DTC P2231</u>	O2 Sensor Signal Circuit Shorted to Heater Circuit (Bank 1 Sensor 1) (SIG)
<u>DTC P2234</u>	O2 Sensor Signal Circuit Shorted to Heater Circuit (Bank 2 Sensor 1) (SIG)
<u>DTC P2237</u>	O2 Sensor Positive Current Control Circuit/Open (Bank 1 Sensor 1) (SIG)
<u>DTC P2240</u>	O2 Sensor Positive Current Control Circuit/Open (Bank 2 Sensor 1) (SIG)
<u>DTC P2243</u>	O2 Sensor Reference Voltage Circuit/Open (Bank 1 Sensor 1) (SIG)
<u>DTC P2247</u>	O2 Sensor Reference Voltage Circuit/Open (Bank 2 Sensor 1) (SIG)
<u>DTC P2251</u>	O2 Sensor Negative Current Control Circuit/Open (Bank 1 Sensor 1) (SIG)
<u>DTC P2254</u>	O2 Sensor Negative Current Control Circuit/Open (Bank 2 Sensor 1) (SIG)
<u>DTC P2270</u>	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2) (MAX)
<u>DTC P2271</u>	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 2) (MIN)
<u>DTC P2272</u>	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 2) (MAX)
<u>DTC P2273</u>	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 2) (MIN)
<u>DTC P2400</u>	Evaporative Emission System Leak Detection Pump Control Circuit/Open (SIG)
<u>DTC P2401</u>	Evaporative Emission System Leak Detection Pump Control Circuit Low (MIN)
<u>DTC P2402</u>	Evaporative Emission System Leak Detection Pump Control Circuit High (MAX)
<u>DTC P240A</u>	Evaporative Emission System Leak Detection Pump Heater Control Circuit/Open 2904 of 3160 (SIG)
<u>DTC P240B</u>	Evaporative Emission System Leak Detection Pump Heater Control Circuit Low

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	(MIN)
<u>DTC P240C</u>	Evaporative Emission System Leak Detection Pump Heater Control Circuit High (MAX)
<u>DTC P2414</u>	O2 Sensor Exhaust Sample Error (Bank 1 Sensor 1) (PLAUS)
<u>DTC P2415</u>	O2 Sensor Exhaust Sample Error (Bank 2 Sensor 1) (PLAUS)
<u>DTC P2418</u>	Evaporative Emission System Switching Valve Control Circuit/Open (SIG)
<u>DTC P2419</u>	Evaporative Emission System Switching Valve Control Circuit Low (MIN)
<u>DTC P2420</u>	Evaporative Emission System Switching Valve Control Circuit High (MAX)
<u>DTC P250A</u>	Engine Oil Level Sensor Circuit (SIG)
<u>DTC P250B</u>	Engine Oil Level Sensor Circuit Range/Performance (PLAUS)
<u>DTC P250F</u>	Engine Oil Level Too Low (MIN)
<u>DTC P2626</u>	O2 Sensor Pumping Current Trim Circuit/Open (Bank 1 Sensor 1) (SIG)
<u>DTC P2629</u>	O2 Sensor Pumping Current Trim Circuit/Open (Bank 2 Sensor 1) (SIG)
<u>DTC P300A</u>	Controlled Air Guiding Circuit High (MAX)
<u>DTC P300B</u>	Controlled Air Guiding Circuit Low (MIN)
<u>DTC P300C</u>	Controlled Air Guiding Circuit (SIG)
<u>DTC P3012</u>	O2 Sensor Signal Circuit Adaptation Value Too High (Bank 1 Sensor 1) (MAX)
<u>DTC P3013</u>	O2 Sensor Signal Circuit Adaptation Value Too High (Bank 2 Sensor 1) (MAX)
<u>DTC P3014</u>	O2 Sensor WRAF-IC Supply Voltage Too Low (Bank 1 Sensor 1) (MIN)
<u>DTC P3015</u>	O2 Sensor WRAF-IC Supply Voltage Too Low (Bank 2 Sensor 1) (MIN)
<u>DTC P3016</u>	O2 Sensor Calibration Resistance at WRAF-IC Plausibility (Bank 1 Sensor 1) (SIG)
<u>DTC P3017</u>	O2 Sensor Calibration Resistance at WRAF-IC Plausibility (Bank 2 Sensor 1) (SIG)
<u>DTC P3018</u>	O2 Sensor Lambda Controller Value Above Threshold Due To Open Pumping Current Circuit (Bank 1 Sensor 1) (MAX)
<u>DTC P3019</u>	O2 Sensor Lambda Controller Value Above Threshold Due To Open Pumping Current Circuit (Bank 2 Sensor 1) (MAX)
<u>DTC P3020</u>	O2 Sensor Signal Voltage Too Low during Coast Down Fuel Cut-Off due to Open Pumping Current Circuit (Bank 1 Sensor 1) (PLAUS)
<u>DTC P3021</u>	O2 Sensor Signal Voltage Too Low during Coast Down Fuel Cut-Off due to Open Pumping Current Circuit (Bank 2 Sensor 1) (PLAUS)
<u>DTC P3022</u>	O2 Sensor Disturbed SPI Communication to WRAF-IC (Bank 1 Sensor 1) (SIG)
<u>DTC P3023</u>	O2 Sensor Disturbed SPI Communication to WRAF-IC (Bank 2 Sensor 1) (SIG)
<u>DTC P3024</u>	O2 Sensor Initialization Error WRAF-IC (Bank 1 Sensor 1) (PLAUS)
<u>DTC P3025</u>	O2 Sensor Initialization Error WRAF-IC (Bank 2 Sensor 1) (PLAUS)
<u>DTC P3026</u>	O2 Sensor Operating Temperature Not Reached (Bank 1 Sensor 1) (MAX)
<u>DTC P3027</u>	O2 Sensor Operating Temperature Not Reached (Bank 2 Sensor 1) (MAX)
<u>DTC P3028</u>	O2 Sensor Heater Control No Activity Detected (Bank 1 Sensor 1) (MIN)
<u>DTC P3029</u>	O2 Sensor Heater Control No Activity Detected (Bank 2 Sensor 1) (MIN)
<u>DTC P316C</u>	Radiator Coolant Temperature Sensor Maximum Temperature Implausible (MAX)

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<u>DTC P3200</u>	Powertrain CAN, CAN Chip Defective (MAX)
<u>DTC P3201</u>	Powertrain CAN, DPRAM-CAN Chip Defective (MIN)
<u>DTC P3202</u>	Powertrain CAN, CAN Chip Cut-Off (SIG)
<u>DTC P3203</u>	Local CAN, LoCAN Chip Defective (MAX)
<u>DTC P3204</u>	Local CAN, DPRAM-LoCAN Chip Defective (MIN)
<u>DTC P3205</u>	Local CAN, CAN Chip Cut-Off (MAX)
<u>DTC P3205</u>	Local CAN, CAN Chip Cut-Off (MIN)
<u>DTC P3205</u>	Local CAN, CAN Chip Cut-Off (SIG)
<u>DTC P3206</u>	CAN Timeout ARS (MIN)
<u>DTC P3207</u>	CAN Message Monitoring ARS No Signal (SIG)
<u>DTC P3208</u>	CAN Message Monitoring ARS Plausibility (PLAUS)
<u>DTC P3209</u>	CAN Message Monitoring ASC/DSC Alive Check (MIN)
<u>DTC P3210</u>	CAN Message Monitoring ASC/DSC Plausibility (PLAUS)
<u>DTC P3212</u>	CAN Message Monitoring CAS Plausibility (PLAUS)
<u>DTC P3215</u>	CAN Message Monitoring IHKA (Automatic Heating and Air Conditioning) No Signal (SIG)
<u>DTC P3217</u>	CAN Message Monitoring Instrument Pack Plausibility (PLAUS)
<u>DTC P3219</u>	CAN Message Monitoring SZL (Switch Cluster Steering Column) Alive Check (MIN)
<u>DTC P321E</u>	Ambient Pressure Sensor Maximum Pressure Implausible (MAX)
<u>DTC P321F</u>	Ambient Pressure Sensor Minimum Pressure Implausible (MIN)
<u>DTC P3220</u>	CAN Message Monitoring SZL (Switch Cluster Steering Column) No Signal (SIG)
<u>DTC P3221</u>	CAN Message Monitoring SZL (Switch Cluster Steering Column) Plausibility (PLAUS)
<u>DTC P3223</u>	Generator Mechanical (MAX)
<u>DTC P3223</u>	Generator Mechanical (PLAUS)
<u>DTC P3225</u>	Generator Communication Error (MIN)
<u>DTC P3226</u>	E-Box Control Circuit Fan High Input (MAX)
<u>DTC P3227</u>	E-Box Control Circuit Fan Low Input (MIN)
<u>DTC P3228</u>	E-Box Control Circuit Fan Open Circuit (SIG)
<u>DTC P322A</u>	Ambient Pressure Sensor Continuity Error (SIG)
<u>DTC P3231</u>	Control Module Monitoring Error Response Plausibility (PLAUS)
<u>DTC P3232</u>	Control Module Monitoring Ignition Timing Plausibility (MIN)
<u>DTC P3233</u>	Control Module Monitoring Relative Charge Plausibility (MAX)
<u>DTC P3234</u>	Control Module Monitoring Throttle Valve Actuator Stop Test (PLAUS)
<u>DTC P3235</u>	Control Module Monitoring Version Coding Plausibility (SIG)
<u>DTC P3236</u>	Control Module Monitoring Injection Time Relative Fuel Quantity Plausibility (MIN)
<u>DTC P3237</u>	Control Module Monitoring Fuel Correction Error (MAX)
<u>DTC P3238</u>	Control Module Monitoring TPU Chip Defective (MAX)

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<u>DTC P3239</u>	Control Module Coding Process No Coding (MIN)
<u>DTC P3239</u>	Control Module Coding Process No Coding (PLAUS)
<u>DTC P323C</u>	Ambient Pressure Sensor Comparison Current to Last Driving Cycle Implausible (PLAUS)
<u>DTC P323D</u>	Control Module Monitoring Air Mass Flow Balancing, Control Range Monitoring (PLAUS)
<u>DTC P3247</u>	Internal Control Module NVRAM Backup Error (PLAUS)
<u>DTC P324A</u>	Generator Type Implausible (MAX)
<u>DTC P324A</u>	Generator Type Implausible (PLAUS)
<u>DTC P324C</u>	Generator Over Temperature Calculated (MAX)
<u>DTC P324E</u>	Generator Regulator Type Implausible (MAX)
<u>DTC P3258</u>	No Info (PLAUS)
<u>DTC P325A</u>	Generator Electrical Error Calculated (MAX)
<u>DTC P3400</u>	Cylinder Deactivation System (Bank 1) (PLAUS)
<u>DTC P3497</u>	Cylinder Deactivation System (Bank 2) (PLAUS)
<u>DTC U0101</u>	Lost Communication With TCM (SIG)
<u>DTC U0101</u>	Lost Communication With TCM (SIG)
<u>DTC U0137</u>	Lost Communication With Trailer Brake Control Module (PLAUS)
<u>DTC U0137</u>	Lost Communication With Trailer Brake Control Module (PLAUS)
<u>DTC U0137</u>	Lost Communication With Trailer Brake Control Module (SIG)
<u>DTC U0137</u>	Lost Communication With Trailer Brake Control Module (SIG)
<u>DTC U0137</u>	Lost Communication With Trailer Brake Control Module (SIG)
<u>DTC U0155</u>	Lost Communication With Instrument Panel Cluster (IPC) Control Module (SIG)
<u>DTC U0155</u>	Lost Communication With Instrument Panel Cluster (IPC) Control Module (SIG)
<u>DTC U1108</u>	Message Monitoring Torque Request Steering Alive Check (PLAUS)
<u>DTC U1108</u>	Message Monitoring Torque Request Steering Alive Check (PLAUS)
<u>DTC U1109</u>	Lost Communication With Torque Request Steering (SIG)
<u>DTC U1109</u>	Lost Communication With Torque Request Steering (SIG)
<u>DTC U1115</u>	Lost Communication With Vehicle Mode Status (SIG)
<u>DTC U1116</u>	Message Monitoring Vehicle Mode Status Check Sum Error (PLAUS)
<u>DTC U1120</u>	Lost Communication With Steering Wheel Angle (SIG)
<u>DTC U1121</u>	Lost Communication With Power Management Battery Voltage (SIG)
<u>DTC U1122</u>	Lost Communication With Power Management Charge Voltage (SIG)
<u>DTC U1129</u>	Lost Communication With Reverse Status (SIG)
<u>DTC U112A</u>	Message Monitoring Instrument Pack Status Alive Check (MIN)
<u>DTC U112D</u>	Lost Communication With Control Crash Cut - Off EKP (Electrical Fuel Pump) (SIG)
<u>DTC U1130</u>	Lost Communication With Radiator Shutter (Upper) (PLAUS)
<u>DTC U1131</u>	Lost Communication With CAS (SIG)
<u>DTC U1132</u>	Lost Communication With Generator via BSD (Bit Serial Data Interface) (MAX)
<u>DTC U1132</u>	Lost Communication With Generator via BSD (Bit Serial Data Interface) (SIG)

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<u>DTC U1132</u>	Lost Communication With Generator via BSD (Bit Serial Data Interface) (SIG)
<u>DTC U1133</u>	Lost Communication With Generator 2 via BSD (Bit Serial Data Interface) (SIG)
<u>DTC U1134</u>	Lost Communication With Lamp Status (MAX)
<u>DTC U1134</u>	Lost Communication With Lamp Status (SIG)
<u>DTC U1135</u>	Lost Communication With Status Water Valve (SIG)
<u>DTC U113C</u>	Lost Communication With Time/Date (SIG)
<u>DTC U113D</u>	Lost Communication With Wheel Torque Management Request/Driveline (SIG)
<u>DTC U113E</u>	Lost Communication With Display Transmission Data (MAX)
<u>DTC U113E</u>	Lost Communication With Display Transmission Data (MIN)
<u>DTC U113E</u>	Lost Communication With Display Transmission Data (SIG)
<u>DTC U1165</u>	Message Monitoring Wheel Torque Management Request/Driveline Alive Check/Check Sum Error (PLAUS)
<u>DTC U1172</u>	Lost Communication With VVT-Control Module (SIG)
<u>DTC U1174</u>	Message Monitoring VVT - Control Module Alive Check/Check Sum Error (PLAUS)
<u>DTC U1200</u>	Message Monitoring TCM Check Sum Error (PLAUS)
<u>DTC U1202</u>	Message Monitoring TCM Alive Check (MIN)
<u>DTC U1202</u>	Message Monitoring TCM Alive Check (PLAUS)