

2006 Audi A6 Quattro

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DIAGNOSTIC TROUBLE CODES (DTC) INDEX

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| SAE Code | VAG Code | Code Description | Corrective Action |
|----------|----------|---|--|
| P0010 | 16394 | "A" Camshaft Position Actuator Circuit Bank 1 | Check Camshaft Adjustment Valve 1 N205 --> <u>Camshaft Adjustment Valve , checking .</u> |
| P0011 | 16395 | "A" Camshaft Position - Timing Over-Advanced or System Performance Bank 1 | |
| P0012 | 16396 | "A" Camshaft Position - Timing Over-Retarded Bank 1 | |
| P0020 | 16404 | "A" Camshaft Position Actuator Circuit Bank 2 | |
| P0021 | 16405 | "A" Camshaft Position - Timing Over-Advanced or System Performance Bank 2 | |
| P0022 | 16406 | "A" Camshaft Position - Timing Over-Retarded Bank 2 | |
| P0030 | 16414 | HO2S Heater Control Circuit, Bank 1 Sensor 1 | Check Oxygen Sensor (O2S) Heater Z29 --> <u>Oxygen Sensor (O2S) Heater for Oxygen Sensor (O2S) Behind Three Way Catalytic Converter (TWC) , checking .</u> |
| P0031 | 16415 | HO2S Heater Control Circuit Low, Bank 1 Sensor 1 | |
| P0032 | 16416 | HO2S Heater Control Circuit High, Bank 1 Sensor 1 | |
| P0036 | 16420 | HO2S Heater Control Circuit Bank, 1 Sensor 2 | |
| P0037 | 16421 | HO2S Heater Control Circuit Low, Bank 1 Sensor 2 | |
| P0038 | 16422 | HO2S Heater Control Circuit High, Bank 1 Sensor 2 | |
| P0050 | 16434 | HO2S Heater Control Circuit Bank 2 Sensor 1 | Check Oxygen Sensor (O2S) Heater Z28 --> <u>Oxygen Sensor (O2S) Heater for Heated Oxygen Sensor (HO2S) before catalytic converter, checking .</u> Check Heated Oxygen Sensor (HO2S) 2 G108 --> <u>Heated Oxygen Sensor (HO2S) before catalytic</u> |
| P0051 | 16435 | HO2S Heater Control Circuit Low Bank 2 Sensor 1 | |
| P0052 | 16436 | HO2S Heater Control Circuit High Bank 2 Sensor 1 | |
| P0056 | 16440 | HO2S Heater Control Circuit Bank 2 Sensor 2 | |
| P0057 | 16441 | HO2S Heater Control Circuit Low Bank | |

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|-------|-------|--|--|
| | | 2 Sensor 2 | converter, checking . |
| P0058 | 16442 | HO2S Heater Control Circuit High Bank 2 Sensor 2 | |
| P0101 | 16485 | Mass or Volume Air Flow Circuit Range/Performance | Check Mass Air Flow (MAF) Sensor G70 --> Mass Air Flow (MAF) Sensor G70 , checking .Check intake system for leaks (false air). --> Intake system for leaks (false air), checking . |
| P0102 | 16486 | Mass or Volume Air Flow Circuit Low Input | |
| P0103 | 16487 | Mass or Volume Air Flow Circuit High Input | |
| P0106 | 16490 | Manifold Absolute Pressure/Barometric Pressure Circuit Range/Performance | Replace Engine Control Module (ECM) J623 --> Engine Control Module (ECM) J623 , replacing . Check Engine Control Module (ECM) J623 voltage supply. Refer to --> Engine Control Module (ECM) J623 voltage supply, checking . |
| P0112 | 16496 | Intake Air Temperature Sensor 1 Circuit Low | Check Intake Air Temperature (IAT) Sensor G42 --> Intake Air Temperature (IAT) Sensor G42 , checking .Check intake system for leaks (false air). --> Intake system for leaks (false air), checking . |
| P0113 | 16497 | Intake Air Temperature Sensor 1 Circuit High | |
| P0116 | 16500 | Engine Coolant Temperature Circuit Range/Performance | Check intake system for leaks (false air). --> Intake system for leaks (false air), checking . |
| P0117 | 16501 | Engine Coolant Temperature Circuit Low | |
| P0118 | 16502 | Engine Coolant Temperature Circuit High | |
| P0121 | 16505 | Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance | Check Throttle Valve Control Module J338 --> Throttle Valve Control Module J338 , checking . |
| P0122 | 16506 | Throttle/Pedal Position Sensor/Switch "A" Circuit Low | |
| P0123 | 16507 | Throttle/Pedal Position Sensor/Switch "A" Circuit High | |
| P0131 | 16515 | O2 Sensor Circuit Low Voltage, Bank 1 Sensor 1 | Check Oxygen Sensor (O2S) Heater Z19 --> Oxygen Sensor (O2S) Heater for Heated Oxygen Sensor (HO2S) before catalytic converter, checking .Check Heated Oxygen Sensor (HO2S) G39 --> Heated Oxygen Sensor (HO2S) before catalytic converter, checking . |
| P0132 | 16516 | O2 Sensor Circuit High Voltage, Bank 1 Sensor 1 | |
| P0133 | 16517 | O2 Sensor Circuit Slow Response, Bank 1 Sensor 1 | |
| P0135 | 16519 | O2 Sensor Heater Circuit, Bank 1 Sensor 1 | Check Oxygen Sensor (O2S) Heater Z19 --> Oxygen Sensor (O2S) Heater for Heated Oxygen Sensor (HO2S) before catalytic converter, checking . |

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| P0136 | 16520 | O2 Sensor Circuit, Bank 1 Sensor 2 | Check Oxygen Sensor (O2S) Heater Z29 --> <u>Oxygen Sensor (O2S) Heater for Oxygen Sensor (O2S) Behind Three Way Catalytic Converter (TWC) , checking .</u> |
| P0137 | 16521 | O2 Sensor Circuit Low Voltage, Bank 1 Sensor 2 | Check Oxygen Sensor (O2S) Behind Three Way Catalytic Converter (TWC) G130 --> <u>Heated Oxygen Sensor (HO2S) behind catalytic converter, checking .</u> |
| P0138 | 16522 | O2 Sensor Circuit High Voltage, Bank 1 Sensor 2 | Check Oxygen Sensor (O2S) Heater Z29 --> <u>Oxygen Sensor (O2S) Heater for Oxygen Sensor (O2S) Behind Three Way Catalytic Converter (TWC) , checking .</u> |
| P0139 | 16523 | O2 Sensor Circuit Slow Response, Bank 1 Sensor 2 | Check Heated Oxygen Sensor (HO2S) 2 G108 --> <u>Heated Oxygen Sensor (HO2S) before catalytic converter, checking .</u> |
| P0140 | 16524 | O2 Sensor Circuit No Activity Detected, Bank 1 Sensor 2 | Check Oxygen Sensor (O2S) Heater Z28 --> <u>Oxygen Sensor (O2S) Heater for Heated Oxygen Sensor (HO2S) before catalytic converter, checking .</u> |
| P0141 | 16525 | O2 Sensor Heater Circuit, Bank 1 Sensor 2 | Check Oxygen Sensor (O2S) Heater Z30 --> <u>Oxygen Sensor (O2S) Heater for Oxygen Sensor (O2S) Behind Three Way Catalytic Converter (TWC) , checking .</u> |
| P0151 | 16535 | O2 Sensor Circuit Low Voltage Bank 2 Sensor 1 | Check Oxygen Sensor (O2S) Behind Three Way Catalytic Converter (TWC) G131 --> <u>Heated Oxygen Sensor (HO2S) behind catalytic converter, checking .</u> |
| P0152 | 16536 | O2 Sensor Circuit High Voltage Bank 2 Sensor 1 | Check Oxygen Sensor (O2S) Heater Z30 --> <u>Oxygen Sensor (O2S) Heater for Oxygen Sensor (O2S) Behind Three Way Catalytic Converter (TWC) , checking .</u> |
| P0153 | 16537 | O2 Sensor Circuit Slow Response Bank 2 Sensor 1 | Check Oxygen Sensor (O2S) Behind Three Way Catalytic Converter (TWC) G131 --> <u>Heated Oxygen Sensor (HO2S) behind catalytic converter, checking .</u> |
| P0155 | 16539 | O2 Sensor Heater Circuit Bank 2 Sensor 1 | Check Oxygen Sensor (O2S) Heater Z30 --> <u>Oxygen Sensor (O2S) Heater for Oxygen Sensor (O2S) Behind Three Way Catalytic Converter (TWC) , checking .</u> |
| P0156 | 16540 | O2 Sensor Circuit Bank 2 Sensor 2 | Check fuel pump delivery and quantity -> <u>Fuel Pump (FP), checking delivery quantity .</u> |
| P0157 | 16541 | O2 Sensor Circuit Low Voltage Bank 2 Sensor 2 | Check Fuel pressure regulator and residual pressure --> <u>Fuel pressure regulator and holding pressure,</u> |
| P0158 | 16542 | O2 Sensor Circuit High Voltage Bank 2 Sensor 2 | |
| P0159 | 16543 | O2 Sensor Circuit Slow Response Bank 2 Sensor 2 | |
| P0160 | 16544 | O2 Sensor Circuit No Activity Detected Bank 2 Sensor 2 | |
| P0161 | 16545 | O2 Sensor Heater Circuit Bank 2 Sensor 2 | |
| | | System Too Lean, Bank 1 | |

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|-------|-------|-------------------------|--|
| P0171 | 16555 | | <p>checking . Check Fuel injectors --> <u>Fuel Injectors , checking .</u> Check intake system for leaks (false air). --> <u>Intake system for leaks (false air), checking .</u> Check exhaust system for proper seal --> <u>Exhaust system, checking for proper seal .</u> Check vacuum lines for leaks Check secondary air (AIR) system for proper seal --> <u>Combination valve for Secondary Air Injection (AIR), checking function and for proper seal .</u></p> |
| P0172 | 16556 | System Too Rich, Bank 1 | <p>Check Fuel pressure regulator and residual pressure --> <u>Fuel pressure regulator and holding pressure, checking .</u> Check Fuel injectors --> <u>Fuel Injectors , checking .</u> Check Evaporative Emission (EVAP) Canister Purge Regulator Valve N80 --> <u>Evaporative Emission (EVAP) Canister Purge Regulator Valve N80 , checking .</u> Check oxygen sensors before catalytic converter --> <u>Heated Oxygen Sensor (HO2S) before catalytic converter, checking .</u> Check oxygen sensors behind Three Way Catalytic Converter (TWC) --> <u>Heated Oxygen Sensor (HO2S) behind catalytic converter, checking .</u></p> |
| P0174 | 16558 | System Too Lean Bank 2 | <p>Check fuel pump delivery and quantity --> <u>Fuel Pump (FP), checking delivery quantity .</u> Check Fuel pressure regulator and residual pressure --> <u>Fuel pressure regulator and holding pressure, checking .</u> Check Fuel injectors --> <u>Fuel Injectors , checking .</u> Check intake system for leaks (false air). --> <u>Intake system for leaks (false air), checking .</u> Check exhaust system for proper seal --</p> |

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| | | | |
|-------|-------|---|--|
| | | | <p>> <u>Exhaust system, checking for proper seal</u> . Check vacuum lines for leaks Check secondary air (AIR) system for proper seal --> <u>Combination valve for Secondary Air Injection (AIR), checking function and for proper seal</u> .</p> |
| P0175 | 16559 | System Too Rich Bank 2 | <p>Check Fuel pressure regulator and residual pressure --> <u>Fuel pressure regulator and holding pressure, checking</u> . Check Fuel injectors --> <u>Fuel Injectors , checking</u> . Check Evaporative Emission (EVAP) Canister Purge Regulator Valve N80 --> <u>Evaporative Emission (EVAP) Canister Purge Regulator Valve N80 , checking</u> . Check oxygen sensors before catalytic converter --> <u>Heated Oxygen Sensor (HO2S) before catalytic converter, checking</u> . Check oxygen sensors behind Three Way Catalytic Converter (TWC) --> <u>Heated Oxygen Sensor (HO2S) behind catalytic converter, checking</u> .</p> |
| P0201 | 16585 | Injector Circuit/Open - Cylinder 1 | <p>Check Fuel injectors --> <u>Fuel Injectors , checking</u> . Check Fuel pressure regulator and residual pressure --> <u>Fuel pressure regulator and holding pressure, checking</u> . Check Fuel Pump delivery quantity. Refer to --> <u>Fuel Pump (FP), checking delivery quantity</u> .</p> |
| P0202 | 16586 | Injector Circuit/Open - Cylinder 2 | |
| P0203 | 16587 | Injector Circuit/Open - Cylinder 3 | |
| P0204 | 16588 | Injector Circuit/Open - Cylinder 4 | |
| P0205 | 16589 | Cylinder 5 Fuel Injector N83 Electrical malfunction | |
| P0206 | 16590 | Cylinder 6 Fuel Injector N84 Electrical malfunction | |
| P0207 | 16591 | Injector Circuit/Open - Cylinder 7 | |
| P0208 | 16592 | Injector Circuit/Open - Cylinder 8 | |
| P0219 | 16603 | Maximum engine revs surpassed | <p>Repair mechanical damage if necessary Erase DTC memory --> <u>Diagnostic mode 4: Reset/delete diagnostic data</u> .</p> |
| P0221 | 16605 | Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance | <p>Check Throttle Valve Control Module J338 --> <u>Throttle Valve Control Module J338 , checking</u> .</p> |
| P0222 | 16606 | Throttle/Pedal Position Sensor/Switch "B" Circuit Low | |
| P0223 | 16607 | Throttle/Pedal Position Sensor/Switch | |

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| | | "B" Circuit High | |
|-------|-------|---|--|
| P0261 | 16645 | Cylinder 1 Injector Circuit Low | <p>Check Fuel injectors --> <u>Fuel Injectors , checking .</u> Check Fuel pressure regulator and residual pressure --> <u>Fuel pressure regulator and holding pressure, checking .</u> Check Fuel Pump delivery quantity. Refer to --> <u>Fuel Pump (FP), checking delivery quantity .</u></p> |
| P0262 | 16646 | Cylinder 1 Injector Circuit High | |
| P0264 | 16648 | Cylinder 2 Injector Circuit Low | |
| P0265 | 16649 | Cylinder 2 Injector Circuit High | |
| P0267 | 16651 | Cylinder 3 Injector Circuit Low | |
| P0268 | 16652 | Cylinder 3 Injector Circuit High | |
| P0270 | 16654 | Cylinder 4 Injector Circuit Low | |
| P0271 | 16655 | Cylinder 4 Injector Circuit High | |
| P0273 | 16657 | Cylinder 5 Fuel Injector N83 Short to Ground (GND) | |
| P0274 | 16658 | Cylinder 5 Fuel Injector N83 Short to positive | |
| P0276 | 16660 | Cylinder 6 Fuel Injector N84 Short to Ground (GND) | |
| P0277 | 16661 | Cylinder 6 Fuel Injector N84 Short to positive | |
| P0279 | 16663 | Cylinder 7 Injector Circuit Low | |
| P0280 | 16664 | Cylinder 7 Injector Circuit High | |
| P0282 | 16666 | Cylinder 8 Injector Circuit Low | |
| P0283 | 16667 | Cylinder 8 Injector Circuit High | |
| P0300 | 16684 | Random/Multiple Cylinder Misfire Detected | <p>Check Fuel injectors --> <u>Fuel Injectors , checking .</u> Check Fuel pressure regulator and residual pressure --> <u>Fuel pressure regulator and holding pressure, checking .</u> Check Fuel Pump delivery quantity. Refer to --> <u>Fuel Pump (FP), checking delivery quantity .</u></p> |
| P0301 | 16685 | Cylinder 1 Misfire Detected | |
| P0302 | 16686 | Cylinder 2 Misfire Detected | |
| P0303 | 16687 | Cylinder 3 Misfire Detected | |
| P0304 | 16688 | Cylinder 4 Misfire Detected | |
| P0305 | 16689 | Cyl. 5 misfire detected | |
| P0306 | 16690 | Cyl. 6 misfire detected | |
| P0307 | 16691 | Cylinder 7 Misfire Detected | |
| P0308 | 16692 | Cylinder 8 Misfire Detected | |
| P0321 | 16705 | Ignition/Distributor Engine Speed Input Circuit Range/Performance | <p>Check Engine Speed (RPM) Sensor G28 --> <u>Engine Speed (RPM) Sensor G28 , checking .</u></p> |
| P0322 | 16706 | Ignition/Distributor Engine Speed Input Circuit No Signal | |
| P0340 | 16724 | Camshaft Position Sensor "A" Circuit, Bank 1 or Single Sensor | |
| P0341 | 16725 | Camshaft Position Sensor "A" Circuit Range/Performance, Bank 1 or Single Sensor | |
| | | Camshaft Position Sensor "A" Circuit | |

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| P0342 | 16726 | Low, Bank 1 or Single Sensor | Check Camshaft Position (CMP) Sensor G40 --> <u>Camshaft Position (CMP) Sensors , checking .</u> |
| P0343 | 16727 | Camshaft Position Sensor "A" Circuit High, Bank 1 or Single Sensor | |
| P0345 | 16729 | Camshaft Position Sensor "A" Circuit Bank 2 | |
| P0346 | 16730 | Camshaft Position Sensor "A" Circuit Range/Performance Bank 2 | |
| P0347 | 16731 | Camshaft Position Sensor "A" Circuit Low Bank 2 | Check Ignition Coil with Power Output Stage --> <u>Ignition Coil with Power Output Stage N70, N127, N291, N292, N323, N324, N325, N326 , checking .</u> |
| P0348 | 16732 | Camshaft Position Sensor "A" Circuit High Bank 2 | |
| P0351 | 16735 | Ignition Coil "A" Primary/Secondary Circuit | |
| P0352 | 16736 | Ignition Coil "B" Primary/Secondary Circuit | |
| P0353 | 16737 | Ignition Coil "C" Primary/Secondary Circuit | |
| P0354 | 16738 | Ignition Coil "D" Primary/Secondary Circuit | |
| P0355 | 16739 | Ignition Coil "E" Primary/Secondary Circuit | |
| P0356 | 16740 | Ignition Coil "F" Primary/Secondary Circuit | |
| P0357 | 16741 | Ignition Coil "G" Primary/Secondary Circuit | |
| P0358 | 16742 | Ignition Coil "H" Primary/Secondary Circuit | |
| P0413 | 16797 | Secondary Air Injection solenoid valve N112 Open | Check Secondary Air Injection (AIR) Solenoid Valve N112 --> <u>Secondary Air Injection (AIR) Solenoid Valve - N112- , checking .</u> |
| P0414 | 16798 | Secondary Air Injection solenoid valve N112 Short circuit | |
| P0418 | 16802 | Secondary Air Injection System Control "A" Circuit | Check Secondary Air Injection (AIR) Pump Relay J299 --> <u>Secondary Air Injection (AIR) Pump Relay -J299- , checking .</u> |
| P0420 | 16804 | Catalyst System, Bank1, Efficiency Below Threshold Bank 1 | Check oxygen sensors before catalytic converter --> <u>Heated Oxygen Sensor (HO2S) before catalytic converter, checking .</u> |
| P0430 | 16814 | Catalyst System Efficiency Below Threshold Bank 2 | Check oxygen sensors behind Three Way Catalytic Converter (TWC) --> <u>Heated Oxygen Sensor (HO2S) behind catalytic converter, checking .</u> Check catalytic converter |

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| P0441 | 16825 | Evaporative Emission System Incorrect Purge Flow | Check Evaporative Emission (EVAP) Canister Purge Regulator Valve N80 --> |
| P0442 | 16826 | Evaporative Emission System Leak Detected (small leak) | <u>Evaporative Emission (EVAP) Canister Purge Regulator Valve N80, checking .</u> |
| P0444 | 16828 | Evaporative Emission System Purge Control Valve Circuit Open | Check Evaporative Emission (EVAP) Canister System for proper seal --> |
| P0455 | 16839 | Evaporative Emission System Leak Detected (large leak) | <u>Evaporative Emission (EVAP) canister system, checking for proper seal .</u> |
| P0456 | 16840 | Evaporative Emission System Leak Detected (very small leak) | |
| P0458 | 16842 | Evaporative Emission System Purge Control Valve Circuit Low | Check Evaporative Emission (EVAP) Canister Purge Regulator Valve N80 --> |
| P0459 | 16843 | Evaporative Emission System Purge Control Valve Circuit High | <u>Evaporative Emission (EVAP) Canister Purge Regulator Valve N80, checking .</u> |
| P0491 | 16875 | Secondary Air Injection System Insufficient Flow Bank 1 | Check Secondary Air Injection (AIR) Solenoid Valve N112 --> <u>Secondary Air Injection (AIR) Solenoid Valve - N112- , checking .</u> |
| | | | Check Secondary Air Injection (AIR) Pump Relay J299 --> <u>Secondary Air Injection (AIR) Pump Relay -J299- , checking .</u> |
| P0492 | 16876 | Secondary Air Injection System Insufficient Flow Bank 2 | Check secondary air (AIR) system for proper seal --> <u>Combination valve for Secondary Air Injection (AIR), checking function and for proper seal .</u> |
| P0501 | 16885 | Vehicle Speed Sensor "A" Range/Performance | Check Engine Speed (RPM) Sensor G28 --> <u>Engine Speed (RPM) Sensor G28, checking .</u> |
| P0506 | 16890 | Idle Air Control System RPM Lower Than Expected | Check Throttle Valve Control Module J338 --> <u>Throttle Valve Control Module J338 , checking .</u> |
| P0507 | 16891 | Idle Air Control System RPM Higher Than Expected | |
| P0562 | 16946 | Voltage supply too low | Check voltage supply for the Transmission Control Module (TCM) J217 --> <u>Voltage supply for the Transmission Control Module (TCM) J217 , checking .</u> |
| | | | Transmission Control Module. Refer to --> <u>Transmission Control Module (TCM) J217 , replacing .</u> |
| P0563 | 16947 | Voltage supply too high | Check voltage supply for the Transmission Control Module (TCM) J217 --> <u>Voltage supply for the</u> |

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| | | | <u>Transmission Control Module (TCM) J217 , checking .</u> |
| P0600 | 16984 | Data bus drive missing message | Eliminate malfunction in Can-bus components according to the wiring diagram. |
| P0601 | 16985 | Internal Control Module Memory Check Sum Error | Replace Engine Control Module (ECM) J623 --> <u>Engine Control Module (ECM) J623 , replacing .</u> |
| P0602 | 16986 | Control Module Programming Error/Malfunction | Check Engine Control Module (ECM) J623 voltage supply. --> <u>Engine Control Module (ECM) J623 voltage supply, checking</u> |
| P0603 | 16987 | Internal Control Module Keep Alive Memory (KAM) Error | Replace Transmission Control Module (TCM) J217 --> <u>Transmission Control Module (TCM) J217 , replacing .</u> Check voltage supply for Transmission Control Module (TCM) J217 --> <u>Voltage supply for the Transmission Control Module (TCM) J217 , checking .</u> |
| P0604 | 16988 | Internal Control Module Random Access Memory (RAM) Error | Replace Transmission Control Module (TCM) J217 --> <u>Transmission Control Module (TCM) J217 , replacing .</u> Check voltage supply for Transmission Control Module (TCM) J217 --> <u>Voltage supply for the Transmission Control Module (TCM) J217 , checking .</u> |
| P0605 | 16989 | Internal Control Module Read Only Memory (ROM) Error | Replace Engine Control Module (ECM) J623 --> <u>Engine Control Module (ECM) J623 , replacing .</u> |
| P0606 | 16990 | ECM/PCM Processor | Check Engine Control Module (ECM) J623 voltage supply. --> <u>Engine Control Module (ECM) J623 voltage supply, checking</u> |
| P0607 | 16991 | Control Module Performance | Check Fuel Pump (FP) Relay J17 --> <u>Fuel Pump (FP) Relay J17 , checking .</u> |
| P0614 | 16998 | ECM / TCM Incompatible | Check ATF level: --> <u>37 - AUTOMATIC TRANSMISSION - CONTROLS, HOUSING</u> Mechanical malfunction in transmission |
| P0627 | 17011 | Fuel Pump "A" Control Circuit/Open | |
| P0629 | 17013 | Fuel Pump "A" Control Circuit High | |
| P0634 | 17018 | PCM/ECM/TCM Internal Temperature Too High | |
| P0638 | 17022 | Throttle Actuator Control Range/Performance | Check Throttle Valve Control Module J338 --> <u>Throttle Valve Control Module J338 , checking .</u> Check Throttle Position (TP) Sensor G79/Accelerator Pedal Position Sensor |

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| | | | 2 G185 --> <u>Throttle Position (TP) Sensor G79/Accelerator Pedal Position Sensor 2 G185 , checking .</u> |
| P0641 | 17025 | Sensor Reference Voltage "A" Circuit/Open | Check voltage supply for the Transmission Control Module (TCM) J217 --> <u>Voltage supply for the Transmission Control Module (TCM) J217 , checking .</u> Transmission Control Module (TCM) J217 --> <u>Transmission Control Module (TCM) J217 , replacing</u> |
| P0685 | 17069 | ECM/PCM Power Relay Control Circuit/Open | Check voltage supply for Engine Control Module (ECM) J623 --> <u>Engine Control Module (ECM) J623 voltage supply, checking .</u> |
| P0686 | 17070 | ECM/PCM Power Relay Control Circuit Low | Check Motronic Engine Control Module (ECM) Power Supply Relay J271 --> <u>Motronic Engine Control Module (ECM) Power Supply Relay J271 , checking .</u> |
| P0687 | 17071 | ECM/PCM Power Relay Control Circuit High | Engine Control Module (ECM) J623 --> <u>Engine Control Module (ECM) J623 , replacing</u> |
| P0688 | 17072 | Power supply relay J271 , load circuit open | Check voltage supply for the Transmission Control Module (TCM) J217 --> <u>Voltage supply for the Transmission Control Module (TCM) J217 , checking .</u> Replace Transmission Control Module (TCM) J217 --> <u>Transmission Control Module (TCM) J217 , replacing .</u> |
| P0700 | 17084 | Transmission Control System (MIL Request) | Check Multi-Function Transmission Range (TR) Switch F125 --> <u>Multi-Function Transmission Range (TR) Switch, checking .</u> Check Pressure Regulator Valves --> <u>Pressure regulator valves, checking .</u> Check sensor for transmission output RPM --> <u>Sensor for transmission output RPM, checking .</u> |
| P0706 | 17090 | Transmission Range Sensor Circuit Range/Performance | Check solenoid valve 1 --> <u>Solenoid valve 1, checking</u> |
| P0710 | 17094 | Transmission Fluid Temperature Sensor "A" Circuit | Check sensor for transmission RPM --> |
| P0711 | 17095 | Transmission Fluid Temperature Sensor "A" Circuit Range/Performance | |
| P0712 | 17096 | Transmission Fluid Temperature Sensor "A" Circuit Low | |
| P0713 | 17097 | Transmission Fluid Temperature Sensor "A" Circuit High | |
| P0714 | 17098 | Transmission Fluid Temperature Sensor "A" Circuit Intermittent | |
| P0716 | 17100 | Input/Turbine Speed Sensor "A" Circuit Range/Performance2) | |
| | | Input/Turbine Speed Sensor "A" Circuit | Check sensor for transmission RPM --> |

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| P0717 | 17101 | No Signal | <u>Sensor for transmission RPM, checking</u> |
| P0721 | 17105 | Output Speed Sensor Circuit Range/Performance2) | |
| P0722 | 17106 | Output Speed Sensor Circuit No Signal | |
| P0727 | 17111 | Engine Speed Input Circuit No Signal | Check wiring connection Between Engine Control Module (ECM) J623 and the Transmission Control Module (TCM) J217 according to wiring diagrams. Check Engine Speed (RPM) Sensor G28 --> <u>Engine Speed (RPM) Sensor G28, checking .</u> |
| P0729 | 17113 | Gear 6 Incorrect Ratio | Check Multi-Function Transmission Range (TR) Switch F125 --> <u>Multi-Function Transmission Range (TR) Switch, checking .</u> |
| P0731 | 17115 | Gear 1 Incorrect Ratio | |
| P0732 | 17116 | Gear 2 Incorrect Ratio | Check Pressure Regulator Valves --> <u>Pressure regulator valves, checking .</u> |
| P0733 | 17117 | Gear 3 Incorrect Ratio | Check sensor for transmission output RPM --> <u>Sensor for transmission output RPM, checking .</u> |
| P0734 | 17118 | Gear 4 Incorrect Ratio | Check solenoid valve 1 --> <u>Solenoid valve 1, checking</u> |
| P0735 | 17119 | Gear 5 Incorrect Ratio | Check sensor for transmission RPM --> <u>Sensor for transmission RPM, checking</u> |
| P0736 | 17120 | Reverse Incorrect Ratio | |
| P0741 | P0743 | P0746 | Check Multi-Function Transmission Range (TR) Switch F125 --> <u>Multi-Function Transmission Range (TR) Switch, checking .</u> Check Pressure Regulator Valves --> <u>Pressure regulator valves, checking .</u> Check sensor for transmission output RPM --> <u>Sensor for transmission output RPM, checking .</u> Check solenoid valve 1 --> <u>Solenoid valve 1, checking</u> Check sensor for transmission RPM --> <u>Sensor for transmission RPM, checking</u> Check Engine Speed (RPM) Sensor G28 --> <u>Engine Speed (RPM) Sensor G28, checking .</u> |
| P0746 | 17130 | Pressure Control Solenoid "A" Performance or Stuck Off | |
| P0747 | 17131 | Pressure Control Solenoid "A" Stuck On | |

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| P0748 | 17132 | Pressure Control Solenoid ""A"" Electrical | |
| P0751 | 17135 | Shift Solenoid "A" Performance or Stuck Off | |
| P0752 | 17136 | Shift Solenoid "A" Stuck On | |
| P0776 | 17160 | Pressure Control Solenoid "B" Performance or Stuck off | <p>Check Multi-Function Transmission Range (TR) Switch F125 --> <u>Multi-Function Transmission Range (TR) Switch, checking</u> .</p> <p>Check Pressure Regulator Valves --> <u>Pressure regulator valves, checking</u> .</p> <p>Check sensor for transmission output RPM --> <u>Sensor for transmission output RPM, checking</u> .</p> <p>Check solenoid valve 1 --> <u>Solenoid valve 1, checking</u></p> <p>Check sensor for transmission RPM --> <u>Sensor for transmission RPM, checking</u></p> |
| P0777 | 17161 | Pressure Control Solenoid "B" Stuck On | |
| P0778 | 17162 | Pressure Control Solenoid "B" Electrical | |
| P0781 | P0782 | P0783 | |
| P0782 | 17166 | 2-3 Shift | |
| P0783 | P0784 | P0796 | |
| P0784 | P0796 | P0797 | |
| P0796 | 17180 | Pressure Control Solenoid "C" Performance or Stuck off | |
| P0797 | 17181 | Pressure Control Solenoid "C" Stuck On | |
| P0798 | 17182 | Pressure Control Solenoid "C" Electrical | |
| P0829 | 17213 | 5-6 Shift | |
| P0889 | 17273 | TCM Power Relay Sense Circuit Range/Performance | |
| P0890 | 17274 | TCM Power Relay Sense Circuit Low | |
| P0891 | 17275 | TCM Power Relay Sense Circuit High | |
| P0892 | 17276 | TCM Power Relay Sense Circuit Intermittent | |
| P1702 | P1857 | P2088 | <p>Check voltage supply for transmission control module (TCM) J217 --> <u>Voltage supply for the Transmission Control Module (TCM) J217, checking</u></p> <p>Replace Transmission Control Module (TCM) J217 --> <u>Transmission Control Module (TCM) J217, replacing</u> .</p> |
| P2088 | 18520 | "A" Camshaft Position Actuator Control Circuit Low Bank 1 | |
| P2089 | 18521 | "A" Camshaft Position Actuator Control Circuit High Bank 1 | |
| P2092 | 18524 | "A" Camshaft Position Actuator Control Circuit Low Bank 2) | |
| P2093 | 18525 | "A" Camshaft Position Actuator Control Circuit High Bank 2 | |
| P2096 | 18528 | Post Catalyst Fuel Trim System Too Lean, Bank 1 | <p>Check oxygen sensors before catalytic converter --> <u>Heated Oxygen Sensor (HO2S) before catalytic converter, checking</u> .</p> <p>Check oxygen sensors behind Three Way Catalytic Converter (TWC) --> <u>Heated Oxygen Sensor (HO2S) behind catalytic converter, checking</u> .</p> <p>Check intake system for leaks (false air). --> <u>Intake system for leaks (false air), checking</u> .</p> |
| P2097 | 18529 | Post Catalyst Fuel Trim System Too Rich | |
| P2098 | 18530 | Post Catalyst Fuel Trim System Too Lean Bank 2 | |
| P2099 | 18531 | Post Catalyst Fuel Trim System Too Rich Bank 2 | |

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| P2101 | 18533 | Throttle Actuator Control Motor Circuit Range/Performance | Check Throttle Valve Control Module J338 --> <u>Throttle Valve Control Module J338 , checking .</u> |
| P2106 | 18538 | Throttle Actuator Control System, Forced Limited Power | |
| P2181 | 18613 | Cooling System Performance | Check Engine Coolant Temperature (ECT) Sensor G62 --> <u>Engine Coolant Temperature (ECT) Sensor G62 , checking .</u> Check Coolant Pump V50 --> <u>19 - ENGINE - COOLING SYSTEM .</u> Check Coolant Thermostat. --> <u>19 - ENGINE - COOLING SYSTEM .</u> |
| P2195 | 18627 | O2 Sensor Signal Stuck Lean Bank 1 Sensor 1 | Check Heated Oxygen Sensor (HO2S) G39 --> <u>Heated Oxygen Sensor (HO2S) before catalytic converter, checking .</u> |
| P2196 | 18628 | O2 Sensor Signal Stuck Rich Bank 1 Sensor 1 | |
| P2197 | 18629 | O2 Sensor Signal Stuck Lean Bank 2 Sensor 1 | |
| P2198 | 18630 | O2 Sensor Signal Stuck Rich Bank 2 Sensor 1 | |
| P2231 | 18663 | O2 Sensor Signal Circuit Shorted to Heater Circuit Bank 1 Sensor 1 | Check Oxygen Sensor (O2S) Heater Z19 --> <u>Oxygen Sensor (O2S) Heater for Heated Oxygen Sensor (HO2S) before catalytic converter, checking .</u> |
| P2234 | 18666 | O2 Sensor Signal Circuit Shorted to Heater Circuit Bank 2 Sensor 1 | |
| P2237 | 18669 | O2 Sensor Positive Current Control Circuit/Open Bank 1 Sensor 1 | Check Heated Oxygen Sensor (HO2S) G39 --> <u>Heated Oxygen Sensor (HO2S) before catalytic converter, checking .</u> |
| P2240 | 18672 | O2 Sensor Positive Current Control Circuit/Open Bank 2 Sensor 1 | |
| P2243 | 18675 | O2 Sensor Reference Voltage Circuit/Open, Bank 1 Sensor 1 | |
| P2247 | 18679 | O2 Sensor Reference Voltage Circuit/Open Bank 2 Sensor 1 | |
| P2251 | 18683 | O2 Sensor Negative Current Control Circuit/Open, Bank 1 Sensor 1 | |
| P2254 | 18686 | O2 Sensor Negative Current Control Circuit/Open Bank 2 Sensor 1 | |
| P2257 | 18689 | Secondary Air Injection System Control "A" Circuit Low | Check Secondary Air Injection (AIR) Pump Relay J299 --> <u>Secondary Air Injection (AIR) Pump Relay -J299- , checking .</u> |
| P2258 | 18690 | Secondary Air Injection System Control "A" Circuit High | |
| P2400 | 18832 | Evaporative Emission System Leak Detection Pump Control Circuit/Open | Check Leak Detection Pump (LDP) V144 --> <u>Leak Detection Pump (LDP) -V144- , checking .</u> |
| P2401 | 18833 | Evaporative Emission System Leak Detection Pump Control Circuit Low | |

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| P2402 | 18834 | Evaporative Emission System Leak Detection Pump Control Circuit High | Check Evaporative Emission (EVAP) Canister System for proper seal --> |
| P2403 | 18835 | Evaporative Emission System Leak Detection Pump Sense Circuit/Open | <u>Evaporative Emission (EVAP) canister system, checking for proper seal .</u> |
| P2404 | 18836 | Evaporative Emission System Leak Detection Pump Sense Circuit Range/Performance | |
| P2414 | 18846 | O2 Sensor Exhaust Sample Error Bank 1 Sensor 1 | Check Heated Oxygen Sensor (HO2S) G39 --> <u>Heated Oxygen Sensor (HO2S) before catalytic converter, checking .</u> |
| P2415 | 18847 | O2 Sensor Exhaust Sample Error Bank 2 Sensor 1 | Check intake system for leaks (false air). --> <u>Intake system for leaks (false air), checking .</u> |
| P2626 | 19058 | O2 Sensor Pumping Current Trim Circuit/Open Bank 1 Sensor 1 | Check Heated Oxygen Sensor (HO2S) G39 --> <u>Heated Oxygen Sensor (HO2S) before catalytic converter, checking .</u> |
| P2629 | 19061 | O2 Sensor Pumping Current Trim Circuit/Open Bank 2 Sensor 1 | |
| P2637 | 19069 | Torque Management Feedback Signal "A" | |
| P2714 | 19146 | Pressure Control Solenoid "D" Performance or Stuck Off | Check Multi-Function Transmission Range (TR) Switch. --> <u>Multi-Function Transmission Range (TR) Switch, checking .</u> |
| P2715 | 19147 | Pressure Control Solenoid "D" Stuck On | Check Automatic Transmission Pressure Regulating Valve 4 N218 --> <u>Pressure regulator valves, checking .</u> |
| P2716 | 19148 | Pressure Control Solenoid "D" Electrical | Check sensor for transmission output RPM. --> <u>Sensor for transmission output RPM, checking .</u> |
| P2723 | 19155 | Pressure Control Solenoid "E" Performance or Stuck Off | Check sensor for transmission RPM. --> <u>Sensor for transmission RPM, checking .</u> |
| P2724 | 19156 | Pressure Control Solenoid "E" Stuck On | Check solenoid valve 1. --> <u>Solenoid valve 1, checking .</u> |
| P2732 | 19164 | Pressure Control Solenoid "F" Performance or Stuck Off | Check Transmission Fluid Temperature Sensor. --> <u>Transmission Fluid Temperature Sensor, checking .</u> |
| P2733 | 19165 | Pressure Control Solenoid "F" Stuck On | |
| P3081 | 19537 | Engine Temperature Too Low | |
| U0001 | 28673 | High Speed CAN Communication Bus | Check terminal resistance of CAN-Bus. --> <u>Terminal resistance for Can-Bus, checking .</u> |
| U0101 | 28773 | Lost Communication With TCM | |
| U0155 | 28827 | Lost Communication With Instrument Panel Cluster (IPC) Control Module | |
| U0402 | 29074 | Invalid Data Received From Transmission Control Module | Check wiring connection between Engine Control Module (ECM) J623 and the Transmission Control Module (TCM) J217 according to wiring |

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