054JD–38

# DIAGNOSTIC TROUBLE CODE CHART

HINT:

Parameters listed in the chart may not be exactly the same as your readings due to factors such as the type of instrument.

If a DTC is displayed during the DTC check in check mode, check the circuit for the DTC listed in the table below. For details of each DTC, refer to the ”See page” under the respective ”DTC No.” in this chart.

**Un–leaded gasoline type vehicle:**

| DTC No. (See Page) | Detection Item | Trouble Area | MIL*1 | Memory |
|---|---|---|---|---|
| P0010 (05–38) | Camshaft Position ”A” Actuator Circuit (Bank 1) | • Open or short in Oil Control Valve (OCV) circuit<br>• OCV<br>• ECM | ○ | ○ |
| P0011 (05–42) | Camshaft Position ”A” –Timing Over–Advanced or System Performance (Bank 1) | • Valve timing<br>• OCV<br>• Camshaft timing gear assy<br>• ECM | ○ | ○ |
| P0012 (05–42) | Camshaft Position ”A” –Timing Over– Retarded (Bank 1) | • Valve timing<br>• OCV<br>• Camshaft timing gear assy<br>• ECM | ○ | ○ |
| P0016 (05–46) | Crankshaft Position – Camshaft Position Correlation (Bank 1 Sensor A) | • Mechanical system (Jumped tooth of timing chain or chain stretched)<br>• ECM | – | ○ |
| P0031 (05–47) | Oxygen Sensor Heater Control Circuit Low (Bank 1 Sensor 1) | • Open or short in heater circuit of A/F sensor<br>• A/F sensor heater (sensor 1)<br>• A/F heater relay<br>• ECM | ○ | ○ |
| P0032 (05–47) | Oxygen Sensor Heater Control Circuit High (Bank 1 Sensor 1) | • Open or short in heater circuit of A/F sensor<br>• A/F sensor heater (sensor 1)<br>• A/F heater relay<br>• ECM | ○ | ○ |
| P0037 (05–53) | Oxygen Sensor Heater Control Circuit Low (Bank 1 Sensor 2) | • Open in heater circuit of heated oxygen sensor<br>• Heated oxygen sensor heater (sensor 2)<br>• EFI relay<br>• ECM | ○ | ○ |
| P0038 (05–53) | Oxygen Sensor Heater Control Circuit High (Bank 1 Sensor 2) | • Short in heater circuit of heated oxygen sensor<br>• Heated oxygen sensor heater (sensor 2)<br>• EFI relay<br>• ECM | ○ | ○ |
| P0100 (05–57) | Mass or Volume Air Flow Circuit | • Open or short in Mass Air Flow (MAF) meter circuit<br>• MAF meter<br>• ECM | ○ | ○ |
| P0102 (05–57) | Mass or Volume Air Flow Circuit Low Input | • Open in MAF meter circuit<br>• MAF meter<br>• ECM | ○ | ○ |
| P0103 (05–57) | Mass or Volume Air Flow Circuit High Input | • Short in MAF meter circuit<br>• MAF meter<br>• ECM | ○ | ○ |
| P0110 (05–63) | Intake Air Temperature Circuit | • Open or short in Intake Air Temperature (IAT) sensor circuit<br>• IAT sensor (built into MAF meter)<br>• ECM | ○ | ○ |
| P0112 (05–63) | Intake Air Temperature Circuit Low Input | • Short in IAT sensor circuit<br>• IAT sensor (built into MAF meter)<br>• ECM | ○ | ○ |
| P0113 (05–63) | Intake Air Temperature Circuit High Input | • Open in IAT sensor circuit<br>• IAT sensor (built into MAF meter)<br>• ECM | ○ | ○ |

| DTC No. (See Page) | Detection Item | Trouble Area | MIL*1 | Memory |
|---|---|---|---|---|
| P0115 (05–68) | Engine Coolant Temperature Circuit | • Open or short in engine coolant temperature sensor circuit<br>• Engine coolant temperature sensor<br>• ECM | ○ | ○ |
| P0116 (05–72) | Engine Coolant Temperature Circuit Range/Performance Problem | • Engine coolant temperature sensor | ○ | ○ |
| P0117 (05–68) | Engine Coolant Temperature Circuit Low Input | • Short in engine coolant temperature sensor circuit<br>• Engine coolant temperature sensor<br>• ECM | ○ | ○ |
| P0118 (05–68) | Engine Coolant Temperature Circuit High Input | • Open in engine coolant temperature sensor circuit<br>• Engine coolant temperature sensor<br>• ECM | ○ | ○ |
| P0120 (05–73) | Throttle/Pedal Position Sensor/ Switch "A" Circuit | • Throttle position sensor (built into throttle body)<br>• ECM | ○ | ○ |
| P0121 (05–80) | Throttle/Pedal Position Sensor/ Switch "A" Circuit Range/Performance Problem | • Throttle position sensor (built into throttle body) | ○ | ○ |
| P0122 (05–73) | Throttle/Pedal Position Sensor/ Switch "A" Circuit Low Input | • Throttle position sensor (built into throttle body)<br>• Short in VTA1 circuit<br>• Open in VC circuit<br>• ECM | ○ | ○ |
| P0123 (05–73) | Throttle/Pedal Position Sensor/ Switch "A" Circuit High Input | • Throttle position sensor (built into throttle body)<br>• Open in VTA1 circuit<br>• Open in E2 circuit<br>• VC and VTA1 circuits are short–circuited<br>• ECM | ○ | ○ |
| P0136 (05–81) | Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2) | • Open or short in heated oxygen sensor circuit<br>• Heated oxygen sensor (sensor 2)<br>• Heated oxygen sensor heater (sensor 2)<br>• EFI relay | ○ | ○ |
| P0137 (05–81) | Oxygen Sensor Circuit Low Voltage (Bank 1 Sensor 2) | • Open or short in heated oxygen sensor circuit<br>• Heated oxygen sensor (sensor 2)<br>• Heated oxygen sensor heater (sensor 2)<br>• EFI relay | ○ | ○ |
| P0138 (05–81) | Oxygen Sensor Circuit High Voltage (Bank 1 Sensor 2) | • Open or short in heated oxygen sensor circuit<br>• Heated oxygen sensor (sensor 2)<br>• Heated oxygen sensor heater (sensor 2)<br>• EFI relay | ○ | ○ |
| P0220 (05–73) | Throttle/Pedal Position Sensor/ Switch "B" Circuit | • Throttle position sensor (built into throttle body)<br>• ECM | ○ | ○ |
| P0222 (05–73) | Throttle/Pedal Position Sensor/ Switch "B" Circuit Low Input | • Throttle position sensor (built into throttle body)<br>• Short in VTA2 circuit<br>• Open in VC circuit<br>• ECM | ○ | ○ |
| P0223 (05–73) | Throttle/Pedal Position Sensor/ Switch "B" Circuit High Input | • Throttle position sensor (built into throttle body)<br>• Open in VTA2 circuit<br>• Open in E2 circuit<br>• VC and VTA2 circuits are short–circuited<br>• ECM | ○ | ○ |
| P0327 (05–89) | Knock Sensor 1 Circuit Low Input (Bank 1 or Single Sensor) | • Short in knock sensor circuit<br>• Knock sensor<br>• ECM | ○ | ○ |
| P0328 (05–89) | Knock Sensor 1 Circuit High Input (Bank 1 or Single Sensor) | • Open in knock sensor circuit<br>• Knock sensor<br>• ECM | ○ | ○ |

| DTC No. (See Page) | Detection Item | Trouble Area | MIL*1 | Memory |
|---|---|---|---|---|
| P0335 (05–93) | Crankshaft Position Sensor "A" Circuit | • Open or short in crankshaft position sensor circuit<br>• Crankshaft position sensor<br>• Sensor plate (crankshaft)<br>• ECM | ○ | ○ |
| P0339 (05–93) | Crankshaft Position Sensor "A" Circuit Intermittent | • Same as DTC P0335 | – | ○ |
| P0340 (05–97) | Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor) | • Open or short in camshaft position sensor circuit<br>• Camshaft position sensor<br>• Camshaft<br>• Jumped tooth of timing chain<br>• ECM | ○ | ○ |
| P0341 (05–97) | Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or Single Sensor) | • Same as DTC P0340 | ○ | ○ |
| P0351 (05–100) | Ignition Coil "A" Primary/Secondary Circuit | • Ignition system<br>• Open or short in IGF or IGT1 to 4 circuit from ignition coil with igniter to ECM<br>• No.1 to No.4 ignition coil with igniter<br>• ECM | ○ | ○ |
| P0352 (05–100) | Ignition Coil "B" Primary/Secondary Circuit | • Same as DTC P0351 | ○ | ○ |
| P0353 (05–100) | Ignition Coil "C" Primary/Secondary Circuit | • Same as DTC P0351 | ○ | ○ |
| P0354 (05–100) | Ignition Coil "D" Primary/Secondary Circuit | • Same as DTC P0351 | ○ | ○ |
| P0412 (05–107) | Secondary Air Injection System Switching Valve "A" Circuit | • Open in air switching valve drive circuit<br>• Short between air switching valve circuit and +B circuit<br>• Short between air switching valve circuit and body ground<br>• AIr injection driver<br>• Air switching valve<br>• ECM | ○ | ○ |
| P0418 (05–114) | Secondary Air Injection System Relay "A" Circuit | • Open in air pump driver circuit<br>• Short between air pump circuit and +B circuit<br>• Short between air pump circuit and body ground<br>• Air pump<br>• Air injection driver<br>• ECM | ○ | ○ |
| P0443 (05–119) | Evaporative Emission Control System Purge Control Valve Circuit | • Open or short in EVAP VSV circuit<br>• EVAP VSV<br>• ECM | ○ | ○ |
| P0500 (05–122) | Vehicle Speed Sensor "A" | • Open or short in speed sensor circuit<br>• Speed sensor<br>• Combination meter<br>• ECM<br>• Skid control ECU | ○ | ○ |
| P0504 (05–125) | Brake Switch "A"/"B" Correlation | • Short in stop lamp switch signal circuit<br>• Stop lamp fuse<br>• Stop lamp switch<br>• ECM | – | ○ |
| P0505*2 (05–130) | Idle Air Control System | • ETCS<br>• Air induction system<br>• PCV hose connection | ○ | ○ |
| P0560 (05–132) | System Voltage | • Open in backup power source circuit<br>• ECM | ○ | ○ |
| P0604 (05–135) | Internal Control Module Random Access Memory (RAM) Error | • ECM | ○ | ○ |

| DTC No. (See Page) | Detection Item | Trouble Area | MIL*1 | Memory |
|---|---|---|---|---|
| P0606 (05–135) | ECM/PCM Processor | • ECM | ○ | ○ |
| P0607 (05–135) | Control Module Performance | • ECM | ○ | ○ |
| P0657 (05–135) | Actuator Supply Voltage Circuit / Open | • ECM | ○ | ○ |
| P0705 (05–957) | Transmission Range Sensor Circuit Malfunction (PRNDL Input) | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0710 (05–962) | Transmission Fluid Temperature Sensor "A" Circuit | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0712 (05–962) | Transmission Fluid Temperature Sensor "A" Circuit Low Input | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0713 (05–962) | Transmission Fluid Temperature Sensor "A" Circuit High Input | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0717 (05–966) | Input Speed Sensor Circuit No Signal | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0722 (05–970) | Output Speed Sensor Circuit No Signal | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0818 (05–974) | Driveline Disconnect Switch Input Circuit | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0973 (05–978) | Shift Solenoid "A" Control Circuit Low (Shift Solenoid Valve S1) | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0974 (05–978) | Shift Solenoid "A" Control Circuit High (Shift Solenoid Valve S1) | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0976 (05–981) | Shift Solenoid "B" Control Circuit Low (Shift Solenoid Valve S2) | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0977 (05–981) | Shift Solenoid "B" Control Circuit High (Shift Solenoid Valve S2) | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P1613 (05–136) | Air Injection System Air Injection Driver Malfunction | • Air injection control driver (AID)<br>• Open in AID ground circuit<br>• Short in diagnostic information signal circuit (AID – ECM)<br>• Open or short in air pump and air switching valve command signal circuit (AID – ECM)<br>• Open or short in AID power source circuit<br>• ECM | ○ | ○ |
| P2102 (05–143) | Throttle Actuator Control Motor Circuit Low | • Open in throttle control actuator circuit<br>• Throttle actuator<br>• ECM | ○ | ○ |
| P2103 (05–143) | Throttle Actuator Control Motor Circuit High | • Short in throttle control actuator circuit<br>• Throttle actuator<br>• Throttle valve<br>• Throttle body assembly<br>• ECM | ○ | ○ |
| P2111 (05–146) | Throttle Actuator Control System – Stuck Open | • Throttle actuator<br>• Throttle body assembly<br>• Throttle valve | ○ | ○ |
| P2112 (05–146) | Throttle Actuator Control System – Stuck Closed | • Same as DTC P2111 | ○ | ○ |
| P2118 (05–149) | Throttle Actuator Control Motor Current Range/Performance | • Open in ETCS (Electronic Throttle Control System) power source circuit<br>• ETCS fuse<br>• ECM | ○ | ○ |
| P2119 (05–152) | Throttle Actuator Control Throttle Body Range/Performance | • ETCS<br>• ECM | ○ | ○ |

| DTC No. (See Page) | Detection Item | Trouble Area | MIL*1 | Memory |
|---|---|---|---|---|
| P2120 (05–154) | Throttle/Pedal Position Sensor/ Switch "D" Circuit | • Accelerator pedal position sensor<br>• ECM | ○ | ○ |
| P2121 (05–160) | Throttle/Pedal Position Sensor/ Switch "D" Circuit Range/Performance | • Accelerator pedal position sensor circuit<br>• Accelerator pedal position sensor<br>• ECM | ○ | ○ |
| P2122 (05–154) | Throttle/Pedal Position Sensor/ Switch "D" Circuit Low Input | • Accelerator pedal position sensor<br>• Open in VCP1 circuit<br>• Open or ground short in VPA1 circuit<br>• ECM | ○ | ○ |
| P2123 (05–154) | Throttle/Pedal Position Sensor/ Switch "D" Circuit High Input | • Accelerator pedal position sensor<br>• Open in EPA circuit<br>• ECM | ○ | ○ |
| P2125 (05–154) | Throttle/Pedal Position Sensor/ Switch "E" Circuit | • Accelerator pedal position sensor<br>• ECM | ○ | ○ |
| P2127 (05–154) | Throttle/Pedal Position Sensor/ Switch "E" Circuit Low Input | • Accelerator pedal position sensor<br>• Open in VCP2 circuit<br>• Open or ground short in VPA2 circuit<br>• ECM | ○ | ○ |
| P2128 (05–154) | Throttle/Pedal Position Sensor/ Switch "E" Circuit High Input | • Accelerator pedal position sensor<br>• Open in EPA2 circuit<br>• ECM | ○ | ○ |
| P2135 (05–73) | Throttle/Pedal Position Sensor/ Switch "A"/"B" Voltage Correlation | • VTA1 and VTA2 circuits are short–circuited<br>• Throttle position sensor (built into throttle body)<br>• ECM | ○ | ○ |
| P2138 (05–154) | Throttle/Pedal Position Sensor/ Switch "D"/"E" Voltage Correlation | • VPA1 and VPA2 circuits are short–circuited<br>• Accelerator pedal position sensor<br>• ECM | ○ | ○ |
| P2238 (05–163) | Oxygen Sensor Pumping Current Circuit Low (For A/F Sensor) (Bank 1 Sensor 1) | • Open or short in A/F sensor circuit<br>• A/F sensor<br>• A/F sensor heater<br>• A/F sensor heater relay<br>• A/F sensor heater relay circuit<br>• ECM | ○ | ○ |
| P2239 (05–163) | Oxygen Sensor Pumping Current Circuit High (For A/F Sensor) (Bank 1 Sensor 1) | • Same as DTC P2238 | ○ | ○ |
| P2252 (05–163) | Oxygen Sensor Reference Ground Circuit Low (For A/F Sensor) (Bank 1 Sensor 1) | • Same as DTC P2238 | ○ | ○ |
| P2253 (05–163) | Oxygen Sensor Reference Ground Circuit High (For A/F Sensor) (Bank 1 Sensor 1) | • Same as DTC P2238 | ○ | ○ |
| P2716 (05–984) | Pressure Control Solenoid "D" Electrical (Shift Solenoid Valve SLT) | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P2769 (05–988) | Torque Converter Clutch Solenoid Circuit Low (Shift Solenoid Valve SL) | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P2770 (05–988) | Torque Converter Clutch Solenoid Circuit High (Shift Solenoid Valve SL) | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| B2799 (*3) | Engine Immobilizer System Malfunction | • Immobilizer system | – | ○ |

## Leaded gasoline type vehicle:

| DTC No. (See Page) | Detection Item | Trouble Area | MIL*1 | Memory |
|---|---|---|---|---|
| P0010/39 (05–38) | Camshaft Position "A" Actuator Circuit (Bank 1) | • Open or short in Oil Control Valve (OCV) circuit<br>• OCV<br>• ECM | ○ | ○ |
| P0011/59 (05–42) | Camshaft Position "A" –Timing Over–Advanced or System Performance (Bank 1) | • Valve timing<br>• OCV<br>• Camshaft timing gear assy<br>• ECM | – | ○ |
| P0012/59 (05–42) | Camshaft Position "A" –Timing Over– Retarded (Bank 1) | • Valve timing<br>• OCV<br>• Camshaft timing gear assy<br>• ECM | – | ○ |
| P0016/18 (05–46) | Crankshaft Position – Camshaft Position Correlation (Bank 1 Sensor A) | • Mechanical system (Jumped tooth of timing chain or chain stretched)<br>• ECM | – | ○ |
| P0100/31 (05–57) | Mass or Volume Air Flow Circuit | • Open or short in Mass Air Flow (MAF) meter circuit<br>• MAF meter<br>• ECM | ○ | ○ |
| P0102/31 (05–57) | Mass or Volume Air Flow Circuit Low Input | • Open in MAF meter circuit<br>• MAF meter<br>• ECM | ○ | ○ |
| P0103/31 (05–57) | Mass or Volume Air Flow Circuit High Input | • Short in MAF meter circuit<br>• MAF meter<br>• ECM | ○ | ○ |
| P0110/24 (05–63) | Intake Air Temperature Circuit | • Open or short in Intake Air Temperature (IAT) sensor circuit<br>• IAT sensor (built into MAF meter)<br>• ECM | – | ○ |
| P0112/24 (05–63) | Intake Air Temperature Circuit Low Input | • Short in IAT sensor circuit<br>• IAT sensor (built into MAF meter)<br>• ECM | – | ○ |
| P0113/24 (05–63) | Intake Air Temperature Circuit High Input | • Open in IAT sensor circuit<br>• IAT sensor (built into MAF meter)<br>• ECM | – | ○ |
| P0115/22 (05–68) | Engine Coolant Temperature Circuit | • Open or short in engine coolant temperature sensor circuit<br>• Engine coolant temperature sensor<br>• ECM | ○ | ○ |
| P0117/22 (05–68) | Engine Coolant Temperature Circuit Low Input | • Short in engine coolant temperature sensor circuit<br>• Engine coolant temperature sensor<br>• ECM | ○ | ○ |
| P0118/22 (05–68) | Engine Coolant Temperature Circuit High Input | • Open in engine coolant temperature sensor circuit<br>• Engine coolant temperature sensor<br>• ECM | ○ | ○ |
| P0120/41 (05–73) | Throttle/Pedal Position Sensor/ Switch "A" Circuit | • Throttle position sensor (built into throttle body)<br>• ECM | ○ | ○ |
| P0121/41 (05–80) | Throttle/Pedal Position Sensor/ Switch "A" Circuit Range/Performance Problem | • Throttle position sensor (built into throttle body) | ○ | ○ |
| P0122/41 (05–73) | Throttle/Pedal Position Sensor/ Switch "A" Circuit Low Input | • Throttle position sensor (built into throttle body)<br>• Short in VTA1 circuit<br>• Open in VC circuit<br>• ECM | ○ | ○ |
| P0123/41 (05–73) | Throttle/Pedal Position Sensor/ Switch "A" Circuit High Input | • Throttle position sensor (built into throttle body)<br>• Open in VTA1 circuit<br>• Open in E2 circuit<br>• VC and VTA1 circuits are short–circuited<br>• ECM | ○ | ○ |

| DTC No. (See Page) | Detection Item | Trouble Area | MIL*1 | Memory |
|---|---|---|---|---|
| P0220/41 (05–73) | Throttle/Pedal Position Sensor/ Switch "B" Circuit | • Throttle position sensor (built into throttle body)<br>• ECM | ○ | ○ |
| P0222/41 (05–73) | Throttle/Pedal Position Sensor/ Switch "B" Circuit Low Input | • Throttle position sensor (built into throttle body)<br>• Short in VTA2 circuit<br>• Open in VC circuit<br>• ECM | ○ | ○ |
| P0223/41 (05–73) | Throttle/Pedal Position Sensor/ Switch "B" Circuit High Input | • Throttle position sensor (built into throttle body)<br>• Open in VTA2 circuit<br>• Open in E2 circuit<br>• VC and VTA2 circuits are short–circuited<br>• ECM | ○ | ○ |
| P0327/52 (05–89) | Knock Sensor 1 Circuit Low Input (Bank 1 or Single Sensor) | • Short in knock sensor circuit<br>• Knock sensor<br>• ECM | ○ | ○ |
| P0328/52 (05–89) | Knock Sensor 1 Circuit High Input (Bank 1 or Single Sensor) | • Open in knock sensor circuit<br>• Knock sensor<br>• ECM | ○ | ○ |
| P0335/13 (05–93) | Crankshaft Position Sensor "A" Circuit | • Open or short in crankshaft position sensor circuit<br>• Crankshaft position sensor<br>• Sensor plate (crankshaft)<br>• ECM | ○ | ○ |
| P0339/13 (05–93) | Crankshaft Position Sensor "A" Circuit Intermittent | • Same as DTC P0335 | – | ○ |
| P0340/12 (05–97) | Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor) | • Open or short in camshaft position sensor circuit<br>• Camshaft position sensor<br>• Camshaft<br>• Jumped tooth of timing chain<br>• ECM | ○ | ○ |
| P0341/12 (05–97) | Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or Single Sensor) | • Same as DTC P0340 | ○ | ○ |
| P0351/14 (05–100) | Ignition Coil "A" Primary/Secondary Circuit | • Ignition system<br>• Open or short in IGF or IGT1 to 4 circuit from ignition coil with igniter to ECM<br>• No.1 to No.4 ignition coil with igniter<br>• ECM | ○ | ○ |
| P0352/15 (05–100) | Ignition Coil "B" Primary/Secondary Circuit | • Same as DTC P0351 | ○ | ○ |
| P0353/14 (05–100) | Ignition Coil "C" Primary/Secondary Circuit | • Same as DTC P0351 | ○ | ○ |
| P0354/15 (05–100) | Ignition Coil "D" Primary/Secondary Circuit | • Same as DTC P0351 | ○ | ○ |
| P0500/42 (05–122) | Vehicle Speed Sensor "A" | • Open or short in speed sensor circuit<br>• Speed sensor<br>• Combination meter<br>• ECM<br>• Skid control ECU | ○ | ○ |
| P0504/51 (05–125) | Brake Switch "A"/"B" Correlation | • Short in stop lamp switch signal circuit<br>• Stop lamp fuse<br>• Stop lamp switch<br>• ECM | – | ○ |
| P0604/89 (05–135) | Internal Control Module Random Access Memory (RAM) Error | • ECM | ○ | ○ |
| P0606/89 (05–135) | ECM/PCM Processor | • ECM | ○ | ○ |
| P0607/89 (05–135) | Control Module Performance | • ECM | ○ | ○ |

| DTC No. (See Page) | Detection Item | Trouble Area | MIL*1 | Memory |
|---|---|---|---|---|
| P0657/89 (05–135) | Actuator Supply Voltage Circuit / Open | • ECM | ○ | ○ |
| P0710/38 (05–962) | Transmission Fluid Temperature Sensor ”A” Circuit | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0712/38 (05–962) | Transmission Fluid Temperature Sensor ”A” Circuit Low Input | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0713/38 (05–962) | Transmission Fluid Temperature Sensor ”A” Circuit High Input | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0717/67 (05–966) | Input Speed Sensor Circuit No Signal | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0722/61 (05–970) | Output Speed Sensor Circuit No Signal | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0973/62 (05–978) | Shift Solenoid ”A” Control Circuit Low (Shift Solenoid Valve S1) | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0974/62 (05–978) | Shift Solenoid ”A” Control Circuit High (Shift Solenoid Valve S1) | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0976/63 (05–981) | Shift Solenoid ”B” Control Circuit Low (Shift Solenoid Valve S2) | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P0977/63 (05–981) | Shift Solenoid ”B” Control Circuit High (Shift Solenoid Valve S2) | • Electronic controlled automatic transmission (ECT) | ○ | ○ |
| P2102/41 (05–143) | Throttle Actuator Control Motor Circuit Low | • Open in throttle control actuator circuit<br>• Throttle actuator<br>• ECM | ○ | ○ |
| P2103/41 (05–143) | Throttle Actuator Control Motor Circuit High | • Short in throttle control actuator circuit<br>• Throttle actuator<br>• Throttle valve<br>• Throttle body assembly<br>• ECM | ○ | ○ |
| P2111/41 (05–146) | Throttle Actuator Control System – Stuck Open | • Throttle actuator<br>• Throttle body assembly<br>• Throttle valve | ○ | ○ |
| P2112/41 (05–146) | Throttle Actuator Control System – Stuck Closed | • Same as DTC P2111 | ○ | ○ |
| P2118/89 (05–149) | Throttle Actuator Control Motor CurrentRange/Performance | • Open in ETCS (Electronic Throttle Control System) power source circuit<br>• ETCS fuse<br>• ECM | ○ | ○ |
| P2119/89 (05–152) | Throttle Actuator Control Throttle BodyRange/Performance | • ETCS<br>• ECM | ○ | ○ |
| P2120/19 (05–154) | Throttle/Pedal Position Sensor/ Switch ”D” Circuit | • Accelerator pedal position sensor<br>• ECM | ○ | ○ |
| P2121/19 (05–160) | Throttle/Pedal Position Sensor/ Switch ”D” Circuit Range/Perfor-mance | • Accelerator pedal position sensor circuit<br>• Accelerator pedal position sensor<br>• ECM | ○ | ○ |
| P2122/19 (05–154) | Throttle/Pedal Position Sensor/ Switch ”D” Circuit Low Input | • Accelerator pedal position sensor<br>• Open in VCP1 circuit<br>• Open or ground short in VPA1 circuit<br>• ECM | ○ | ○ |
| P2123/19 (05–154) | Throttle/Pedal Position Sensor/ Switch ”D” Circuit High Input | • Accelerator pedal position sensor<br>• Open in EPA circuit<br>• ECM | ○ | ○ |
| P2125/19 (05–154) | Throttle/Pedal Position Sensor/ Switch ”E” Circuit | • Accelerator pedal position sensor<br>• ECM | ○ | ○ |

| DTC No. (See Page) | Detection Item | Trouble Area | MIL*1 | Memory |
|---|---|---|---|---|
| P2127/19 (05–154) | Throttle/Pedal Position Sensor/ Switch "E" Circuit Low Input | • Accelerator pedal position sensor<br>• Open in VCP2 circuit<br>• Open or ground short in VPA2 circuit<br>• ECM | ○ | ○ |
| P2128/19 (05–154) | Throttle/Pedal Position Sensor/ Switch "E" Circuit High Input | • Accelerator pedal position sensor<br>• Open in EPA2 circuit<br>• ECM | ○ | ○ |
| P2135/41 (05–73) | Throttle/Pedal Position Sensor/ Switch "A"/"B" Voltage Correlation | • VTA1 and VTA2 circuits are short–circuited<br>• Throttle position sensor (built into throttle body)<br>• ECM | ○ | ○ |
| P2138/19 (05–154) | Throttle/Pedal Position Sensor/ Switch "D"/"E" Voltage Correlation | • VPA1 and VPA2 circuits are short–circuited<br>• Accelerator pedal position sensor<br>• ECM | ○ | ○ |
| P2716/77 (05–984) | Pressure Control Solenoid "D" Electrical (Shift Solenoid Valve SLT) | • Electronic controlled automatic transmission (ECT) | – | ○ |
| P2769/64 (05–988) | Torque Converter Clutch Solenoid Circuit Low (Shift Solenoid Valve SL) | • Electronic controlled automatic transmission (ECT) | – | ○ |
| P2770/64 (05–988) | Torque Converter Clutch Solenoid Circuit High (Shift Solenoid Valve SL) | • Electronic controlled automatic transmission (ECT) | – | ○ |
| B2799/99 (*3) | Engine Immobilizer System Malfunction | • Immobilizer system | – | ○ |

*1: MIL (Malfunction Indicator Lamp) illuminates

*2: Euro–OBD vehicle

*3: See Pub. No. RM990E