

| <b>Code</b> | <b>Description</b>   |
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| P1083       | Fuel Control Mixture Lean (Bank 1 Sensor 1)                                    |
| P1084       | Fuel Control Mixture Rich (Bank 1 Sensor 1)                                    |
| P1085       | Fuel Control Mixture Lean (Bank 2 Sensor 1)                                    |
| P1086       | Fuel Control Mixture Rich (Bank 2 Sensor 1)                                    |
| P1087       | O2 Sensor Circuit Slow Response in Lean Control Range (Bank 1 Sensor 1)        |
| P1088       | O2 Sensor Circuit Slow Response in Rich Control Range (Bank 1 Sensor 1)        |
| P1089       | O2 Sensor Circuit Slow Response in Lean Control Range (Bank 1 Sensor 2)        |
| P1090       | Pre-Catalyst Fuel Trim Too Lean Bank 1   |
| P1091       | Pre-Catalyst Fuel Trim Too Rich Bank 1   |
| P1092       | Pre-Catalyst Fuel Trim Too Lean Bank 2   |
| P1093       | Pre-Catalyst Fuel Trim Too Rich Bank 2   |
| P1094       | O2 Sensor Circuit Slow Response in Rich Control Range (Bank 2 Sensor 1)        |
| P1095       | O2 Sensor Circuit Slow Switching From Lean to Rich (Bank 1 Sensor 1)           |
| P1096       | O2 Sensor Circuit Slow Switching From Lean to Rich (Bank 2 Sensor 1)           |
| P1097       | O2 Sensor Circuit Slow Response after Coast Down Fuel Cutoff (Bank 1 Sensor 1) |
| P1098       | O2 Sensor Circuit Slow Response after Coast Down Fuel Cutoff (Bank 2 Sensor 2) |
| P1111       | Engine Coolant Temperature Radiator Outlet Sensor Low Input                    |
| P1112       | Engine Coolant Temperature Radiator Outlet Sensor High Input                   |
| P1115       | Coolant Temperature Sensor Plausibility  |
| P1116       | Mass Or Volume Air Flow Circuit Range/Performance Problem (Bank 2)             |
| P1117       | Mass Or Volume Air Flow Circuit Low Input (Bank 2)                             |
| P1118       | Mass Or Volume Air Flow Circuit High Input (Bank 2)                            |
| P1120       | Pedal Position Sensor Circuit  |
| P1121       | Pedal Position 1 Range/Performance Problem                                     |
| P1122       | Pedal Position 1 Low Input   |
| P1123       | Pedal Position 1 High Input  |
| P1132       | O2 Sensor Heater Control Circuit (Bank 1 Sensor 1)                             |
| P1133       | O2 Sensor Heater Control Circuit (Bank 2 Sensor 1)                             |
| P1134       | O2 Sensor Heater Circuit Signal Intermittent (Bank 1 Sensor 2)                 |
| P1135       | O2 Sensor Heater Circuit Low Voltage (Bank 1 Sensor 1)                         |
| P1136       | O2 Sensor Heater Circuit High Voltage (Bank 1 Sensor 1)                        |
| P1137       | O2 Sensor Heater Circuit Signal Intermittant (Bank 1 Sensor 2)                 |
| P1138       | O2 Sensor Heater Circuit Low Voltage (Bank 1 Sensor 2)                         |
| P1139       | O2 Sensor Heater Circuit High Voltage (Bank 1 Sensor 2)                        |
| P1140       | Mass or Volume Air Flow Circuit Range/Performance Problem                      |
| P1145       | Solenoid Valve Running Losses Control Circuit Electrical                       |
| P1151       | O2 Sensor Heater Circuit Signal Intermittant (Bank 2 Sensor 1)                 |
| P1152       | O2 Sensor Heater Circuit Low Voltage (Bank 2 Sensor 1)                         |
| P1153       | O2 Sensor Heater Circuit High Voltage (Bank 2 Sensor 1)                        |
| P1155       | O2 Sensor Heater Circuit Intermittant (Bank 2 Sensor 2)                        |
| P1156       | O2 Sensor Heater Circuit Low Voltage (Bank 2 Sensor 2)                         |
| P1157       | O2 Sensor Heater Circuit High Voltage (Bank 2 Sensor 2)                        |
| P1158       | Fuel Trim Additive Bank 1 Low  |
| P1159       | Fuel Trim Additive Bank 1 High   |
| P1160       | Fuel Trim Additive Bank 2 Low  |
| P1161       | Fuel Trim Additive Bank 2 High   |
| P1162       | Fuel Trim Additive Per Ignition Bank 1 Low                                     |
| P1163       | Fuel Trim Additive Per Ignition Bank 1 High                                    |
| P1164       | Fuel Trim Additive Per Ignition Bank 2 Low                                     |
| P1165       | Fuel Trim Additive Per Ignition Bank 2 High                                    |
| P1174       | Fuel Trim Adaptation Additive Bank 1 Malfunction                               |
| P1175       | Fuel Trim Adaptation Additive Bank 2 Malfunction                               |
| P1176       | O2 Sensor Slow Response Bank 1   |
| P1177       | O2 Sensor Slow Response Bank 2   |
| P1178       | O2 Sensor Signal Circuit Slow Switching From Rich to Lean (Bank 1 Sensor 1)    |
| P1179       | O2 Sensor Signal Circuit Slow Switching From Rich to Lean (Bank 2 Sensor 1)    |
| P1180       | O2 Sensor Signal Circuit Slow Switching From Rich to Lean (Bank 1 Sensor 2)    |

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| P1181 | O2 Sensor Signal Circuit Slow Switching From Rich to Lean (Bank 2 Sensor 2)             |
| P1182 | O2 Sensor (Bank 1 Sensor 2) Open Circuit During Coast Down Fuel Cut-off                 |
| P1183 | O2 Sensor (Bank 2 Sensor 2) Open Circuit During Coast Down Fuel Cut-off                 |
| P1186 | O2 Sensor Heater Control Circuit (Bank 1 Sensor 2)                                      |
| P1187 | O2 Sensor Heater Control Circuit (Bank 2 Sensor 2)                                      |
| P1188 | Fuel Control (Bank 1 Sensor 1)  |
| P1189 | Fuel Control (Bank 2 Sensor 1)  |
| P1190 | Pre-catalyst Fuel Trim System Bank 1  |
| P1191 | Pre-catalyst Fuel Trim System Bank 2  |
| P1192 | Post-catalyst Fuel Trim System Bank 1   |
| P1193 | Post-catalyst Fuel Trim System Bank 2   |
| P1221 | Pedal Position Sensor 2 Range/Performance Problem                                       |
| P1222 | Pedal Position Sensor 2 Low Input   |
| P1223 | Pedal Position Sensor 2 High Input  |
| P1270 | Control Module Self-Test, Torque Monitoring   |
| P1271 | Ambient Air Pressure Sensor Electrical  |
| P1283 | Switching Solenoid for Air Assisted Injection Valves Bank 1 Control Circuit Electrical  |
| P1284 | Switching Solenoid for Air Assisted Injection Valves Bank 1 Control Circuit Signal Low  |
| P1285 | Switching Solenoid for Air Assisted Injection Valves Bank 1 Control Circuit Signal High |
| P1287 | Switching Solenoid for Air Assisted Injection Valves Bank 2 Control Circuit Electrical  |
| P1288 | Switching Solenoid for Air Assisted Injection Valves Bank 2 Control Circuit Signal Low  |
| P1289 | Switching Solenoid for Air Assisted Injection Valves Bank 2 Control Circuit Signal High |
| P1313 | "A" Camshaft Position Plausibility  |
| P1317 | "B" Camshaft Position Plausibility  |
| P1327 | Knock Sensor 2 (Bank 1) Low Input   |
| P1328 | Knock Sensor 2 (Bank 1) High Input  |
| P1332 | Knock Sensor 4 Low Input  |
| P1333 | Knock Sensor 4 High Input   |
| P1340 | Multiple Cylinder Misfire During Start  |
| P1341 | Multiple Cylinder Misfire With Fuel Cut-off   |
| P1342 | Misfire During Start Cylinder 1   |
| P1343 | Misfire Cylinder 1 With Fuel Cut-off  |
| P1344 | Misfire During Start Cylinder 2   |
| P1345 | Misfire Cylinder 2 With Fuel Cut-off  |
| P1346 | Misfire During Start Cylinder 3   |
| P1347 | Misfire Cylinder 3 With Fuel Cut-off  |
| P1348 | Misfire During Start Cylinder 4   |
| P1349 | Misfire Cylinder 4 With Fuel Cut-off  |
| P1350 | Misfire During Start Cylinder 5   |
| P1351 | Misfire Cylinder 5 With Fuel Cut-off  |
| P1352 | Misfire During Start Cylinder 6   |
| P1353 | Misfire Cylinder 6 With Fuel Cut-off  |
| P1354 | Misfire During Start Cylinder 7   |
| P1355 | Misfire Cylinder 7 With Fuel Cut-off  |
| P1356 | Misfire During Start Cylinder 8   |
| P1357 | Misfire Cylinder 8 With Fuel Cut-off  |
| P1358 | Misfire During Start Cylinder 9   |
| P1359 | Misfire Cylinder 9 With Fuel Cut-off  |
| P1360 | Misfire During Start Cylinder 10  |
| P1361 | Misfire Cylinder 10 With Fuel Cut-off   |
| P1362 | Misfire During Start Cylinder 11  |
| P1363 | Misfire Cylinder 11 With Fuel Cut-off   |
| P1364 | Misfire During Start Cylinder 12  |
| P1365 | Misfire Cylinder 12 With Fuel Cut-off   |

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| P1384 | Knock Sensor 3 Circuit  |
| P1385 | Knock Sensor 4 Circuit  |
| P1386 | Control Module Self-test, Knock Control Baseline Test Bank 1                          |
| P1396 | Crankshaft Position Sensor Segment Timing Plausibility                                |
| P1397 | Camshaft Position Sensor "B" Circuit (Bank 1)   |
| P1400 | Heated Catalyst Battery Voltage or Current too Low During Heating (Bank 1)            |
| P1401 | Heated Catalyst Current too High During Heating (Bank 1)                              |
| P1402 | Heated Catalyst Power Switch Overtemperature Condition (Bank 1)                       |
| P1403 | Carbon Canister Shut Off valve Control Circuit Electrical                             |
| P1404 | Heated Catalyst Current too High During Heating (Bank 2)                              |
| P1405 | Heated Catalyst Power Switch Overtemperature Condition (Bank 2)                       |
| P1406 | Heated Catalyst Internal Control Module Checksum/ROM Error                            |
| P1413 | Secondary Air Injection Pump Relay Control Circuit Signal Low                         |
| P1414 | Secondary Air Injection System Monitor Circuit High                                   |
| P1420 | Secondary Air Valve Control Circuit Electrical  |
| P1421 | Secondary Air System Bank 1   |
| P1422 | Secondary Air System Bank 2   |
| P1432 | Secondary Air Injection System Incorrect Flow Detected                                |
| P1438 | Purge Control Valve Control Open Circuit  |
| P1439 | Purge Control Valve Control Circuit Signal Low  |
| P1440 | Purge Control Valve Control Circuit Signal High                                       |
| P1441 | Leakage Diagnostic Pump Control Open Circuit  |
| P1442 | Leakage Diagnostic Pump Control Circuit Signal Low                                    |
| P1443 | Leakage Diagnostic Pump Control Circuit Signal High                                   |
| P1444 | Diagnostic Module Tank Leakage (DM-TL) Pump Control Open Circuit                      |
| P1445 | Diagnostic Module Tank Leakage (DM-TL) Pump Control Circuit Signal Low                |
| P1446 | Diagnostic Module Tank Leakage (DM-TL) Pump Control Circuit Signal High               |
| P1447 | Diagnostic Module Tank Leakage (DM-TL) Pump Too High During Switching                 |
| P1448 | Diagnostic Module Tank Leakage (DM-TL) Pump Too Low During Switching                  |
| P1449 | Diagnostic Module Tank Leakage (DM-TL) Pump Too High                                  |
| P1450 | Diagnostic Module Tank Leakage (DM-TL) Switching Solenoid Open Circuit                |
| P1451 | Diagnostic Module Tank Leakage (DM-TL) Switching Solenoid Control Circuit Signal Low  |
| P1452 | Diagnostic Module Tank Leakage (DM-TL) Switching Solenoid Control Circuit Signal High |
| P1453 | Secondary Air Injection Pump Relay Control Circuit Electrical                         |
| P1454 | Secondary Air Injection Pump With Series Resistor Control Circuit Electrical          |
| P1456 | Heated Catalyst Heater Power Supply Open Circuit (Bank 1)                             |
| P1457 | Heated Catalyst Heater Power Switch Temperature Sensor Electrical (Bank 1)            |
| P1459 | Heated Catalyst Heater Power Supply Open Circuit (Bank 2)                             |
| P1460 | Heated Catalyst Heater Power Switch Temperature Sensor Electrical (Bank 2)            |
| P1461 | Heated Catalyst Gate Voltage Signal Low   |
| P1462 | Heated Catalyst Internal Control Module Checksum/ROM Error                            |
| P1463 | Heated Catalyst Battery Temperature Sensor 1 Electrical                               |
| P1464 | Heated Catalyst Battery Temperature Sensor 2 Electrical                               |
| P1465 | Heated Catalyst Battery Temperature Sensor 1 or 2 Plausibility                        |
| P1466 | Heated Catalyst Power Switch Temperature Sensor Plausibility                          |
| P1467 | Heated Catalyst Comparison Battery Voltages of Power Switches Plausibility            |
| P1468 | Heated Catalyst Battery Disconnecting Switch Plausibility                             |
| P1470 | Leakage Diagnostic Pump Control Circuit Electrical                                    |
| P1472 | Diagnostic Module Tank leakage (DM-TL) Switching Solenoid Control Circuit Electrical  |
| P1473 | Diagnostic Module Tank leakage (DM-TL) Pump Current Plausibility                      |
| P1475 | Leakage Diagnostic Pump Reed Switch Did Not Close                                     |
| P1476 | Leakage Diagnostic Pump Clamped Tube  |
| P1477 | Leakage Diagnostic Pump Reed Switch Did Not Open                                      |
| P1500 | Idle Speed Control Valve Stuck Open   |
| P1501 | Idle Speed Control Valve Stuck Closed   |

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| P1502 | Idle Speed Control Valve Closing Solenoid Control Circuit Signal High or Low |
| P1503 | Idle Speed Control Valve Closing Solenoid Control Circuit Signal Low         |
| P1504 | Idle Speed Control Valve Closing Solenoid Control Open Circuit               |
| P1505 | Idle Speed Control Valve Closing Solenoid Control Circuit Electrical         |
| P1506 | Idle Speed Control Valve Open Solenoid Control Circuit Signal High           |
| P1507 | Idle Speed Control Valve Open Solenoid Control Circuit Signal Low            |
| P1508 | Idle Speed Control Valve Opening Solenoid Control Open Circuit               |
| P1509 | Idle Speed Control Valve Opening Solenoid Control Circuit Electrical         |
| P1510 | Idle Speed Control Valve Stuck   |
| P1511 | DISA Control Circuit Electrical  |
| P1512 | DISA Control Circuit Signal Low  |
| P1513 | DISA Control Circuit Signal High   |
| P1519 | "A" Camshaft Position Actuator Bank 1  |
| P1520 | "B" Camshaft Position Actuator Bank 1  |
| P1522 | "A" Camshaft Position Actuator Bank 2  |
| P1523 | "A" Camshaft Position Actuator Signal Low Bank 1                             |
| P1524 | "A" Camshaft Position Actuator Signal High Bank 1                            |
| P1525 | "A" Camshaft Position Actuator Control Open Circuit Bank 1                   |
| P1526 | "A" Camshaft Position Actuator Control Open Circuit Bank 2                   |
| P1527 | "A" Camshaft Position Actuator Control Circuit Signal Low Bank 1             |
| P1528 | "A" Camshaft Position Actuator Control Circuit Signal High Bank 1            |
| P1529 | "B" Camshaft Position Actuator Control Circuit Signal Low Bank 1             |
| P1530 | "B" Camshaft Position Actuator Control Circuit Signal High Bank 1            |
| P1531 | "B" Camshaft Position Actuator Control Open Circuit Bank 1                   |
| P1532 | "B" Camshaft Position Actuator Control Open Circuit Bank 2                   |
| P1533 | "B" Camshaft Position Actuator Control Circuit Signal Low Bank 2             |
| P1534 | "B" Camshaft Position Actuator Control Circuit Signal High Bank 2            |
| P1540 | Pedal Position Sensor  |
| P1541 | Pedal Position Sensor Double Error   |
| P1542 | Pedal Position Sensor Electrical   |
| P1543 | Pedal Position Sensor  |
| P1544 | Pedal Position Sensor  |
| P1545 | Pedal Position Sensor  |
| P1546 | Pedal Position Sensor  |
| P1550 | Idle Speed Control valve Closing Solenoid Control Circuit Electrical         |
| P1551 | "A" Camshaft Position Actuator Control Open Circuit Bank 1                   |
| P1552 | "A" Camshaft Position Actuator Control Open Circuit Bank 1                   |
| P1556 | "A" Camshaft Position Actuator Control Open Circuit Bank 1                   |
| P1560 | "B" Camshaft Position Actuator Control Open Circuit Bank 1                   |
| P1564 | Control Module Selection   |
| P1565 | "B" Camshaft Position Actuator Control Open Circuit Bank 1                   |
| P1569 | "A" Camshaft Position Actuator Control Open Circuit Bank 2                   |
| P1580 | Throttle Valve Mechanically Stuck  |
| P1581 | "B" Camshaft Position Actuator Control Open Circuit Bank 2                   |
| P1589 | Control Module Self Test, Knock Control Test Pulse Bank 1                    |
| P1593 | DISA Control Circuit Electrical  |
| P1594 | "B" Camshaft Position Actuator Control Open Circuit Bank 2                   |
| P1602 | Control Module Self Test, Control Module Defective                           |
| P1603 | Control Module Self Test, Torque Monitoring                                  |
| P1604 | Control Module Self Test, Speed Monitoring                                   |
| P1607 | CAN Version  |
| P1608 | Serial Communicating Link Control Module                                     |
| P1609 | Serial Communicating Link EML  |
| P1611 | Serial Communicating Link Transmission Control Module                        |
| P1619 | MAP Cooling Control Circuit Signal Low                                       |
| P1620 | MAP Cooling Control Circuit Signal High                                      |
| P1622 | MAP Cooling Control Circuit Electrical                                       |
| P1623 | Pedal Position Sensor Potentiometer Supply                                   |

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| P1624 | Pedal Position Sensor Potentiometer Supply Channel 1 Electrical |
| P1625 | Pedal Position Sensor Potentiometer Supply Channel 2 Electrical |
| P1632 | Throttle Valve Adaptation; Adaptation Condition Not Met         |
| P1633 | Throttle Valve Adaptation; Limp Home Position                   |
| P1634 | Throttle Valve Adaptation; Spring Test Failed                   |
| P1635 | Throttle Valve Adaptation; Lower Mechanical Stop Not Adapted    |
| P1636 | Throttle Valve Control Circuit                                  |
| P1637 | Throttle Valve Position Control; Control Deviation              |
| P1638 | Throttle Valve Position Control; Throttle Stuck Temporarily     |
| P1639 | Throttle Valve Position Control; Throttle Stuck Permanently     |
| P1640 | Internal Control Module (ROM/RAM) Error                         |
| P1690 | Malfunction Indicator Lamp (MIL) Electrical                     |
| P1734 | Pressure Control Solenoid "B" Electrical                        |
| P1738 | Pressure Control Solenoid "C" Electrical                        |
| P1743 | Pressure Control Solenoid "E" Electrical                        |
| P1744 | Pressure Control Solenoid "A" Electrical                        |
| P1746 | Transmission Control Module Output Stage                        |
| P1747 | CAN Bus Monitoring  |
| P1748 | Transmission Control Module Self Test                           |
| P1749 | Secondary Pressure Solenoid Communication Error                 |
| P1750 | Secondary Pressure Solenoid Circuit Range/Performance           |
| P1751 | Secondary Pressure Solenoid Open Circuit                        |
| P1761 | Shift Solenoid Malfunction                                      |
| P1765 | CAN Throttle Valve  |
| P1770 | CAN Torque Interface  |
| P1780 | CAN Torque Reduction  |