

GM mode \$06 data definitions for GM vehicles using GMLAN diagnostic data link

Some items have footnotes, defined on the last pages.

| OBD Monitor ID (OBDMID) | Test ID (TID) | Units and Scaling ID (UASID) | Description | Range <i>For Information ONLY.</i> Source information is J1979 | Resolution <i>For Information ONLY.</i> Source information is J1979 |
|-------------------------|---------------------------------------|------------------------------|--|--|---|
| | | | | | |
| | Oxygen Sensor Monitor Bank 1 Sensor 1 | | | | |
| 01 | 01 | 0A | Rich to Lean Sensor Threshold Voltage | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 01 | 02 | 0A | Lean to Rich Sensor Threshold Voltage | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 01 | 03 | 0A | Low Sensor Voltage for Switch Time Calculation | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 01 | 04 | 0A | High Sensor Voltage for Switch Time Calculation | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 01 | 05 | 10 | Rich to Lean Sensor Switch Time | 0.0000 to 65.535 seconds | 1 ms / bit |
| 01 | 06 | 10 | Lean to Rich Sensor Switch Time | 0.0000 to 65.535 seconds | 1 ms / bit |
| 01 | 10 ⁽¹⁾ | 06 | B1S1 WRAF Slow Response | 0 to 19.99 raw value | 0.000305 / bit |
| 01 | 80 ⁽⁸⁾ | 2B | Rich to Lean Switches Test Results | 0 to 65535 switches | 1 switch / bit |
| 01 | 81 ⁽⁸⁾ | 2B | Lean to Rich Switches Test Results | 0 to 65535 switches | 1 switch / bit |
| 01 | 82 | 20 | Rich-Lean Response to Lean-Rich Response Ratio | 0 to 255.996 | 0.0039062 / bit |
| 01 | 83 | 0A | Low Sensor Voltage for Half Period Time Calculation | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 01 | 84 | 0A | High Sensor Voltage for Half Period Time Calculation | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 01 | 85 | 10 | O2 Sensor Rich to Lean Half Period Time | 0.0000 to 65.535 seconds | 1 ms / bit |
| 01 | 86 | 10 | O2 Sensor Lean to Rich Half Period Time | 0.0000 to 65.535 seconds | 1 ms / bit |
| 01 | 87 | 10 | Sum of O2 Sensor L/R and R/L Half Period Times | 0.0000 to 65.535 seconds | 1 ms / bit |
| 01 | 88 | 90 ⁽³⁾ | Difference Between Rich-Lean Response and Lean-Rich Response | -32.768 to +32.767 seconds | 0.001 sec / bit |
| 01 | 89 | 06 | B1S1 WRAF Slow Response | 0 to 19.99 raw value | 0.000305 / bit |
| 01 | 8E | B1 | Absolute Average Slope of the O2 Sensor Signal | -65536 to +65534 mV/s | 2 mV/s per bit |
| 01 | 8F | B1 | Instantaneous Positive Slope of the O2 Sensor Signal | -65536 to +65534 mV/s | 2 mV/s per bit |
| 01 | 90 | B1 | Instantaneous Negative Slope of the O2 Sensor Signal | -65536 to +65534 mV/s | 2 mV/s per bit |
| 01 | 91 ⁽⁹⁾ | 90 | O2 Sensor Delayed Response - Rich to Lean | -32.768 to +32.767 seconds | 0.001 sec per bit |

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| 01 | 92 ⁽⁹⁾ | 90 | O2 Sensor Delayed Response - Lean to Rich | -32.768 to +32.767 seconds | 0.001 sec per bit |
| 01 | D0 | 24 | O2 Value Plausibility Check During Overrun | 0 to 65535 counts | 1 count / bit |
| 01 | D1 | 24 | Dynamic Check for O2 Signal Test | 0 to 65535 counts | 1 count / bit |
| 01 | D2 | 11 | Dynamic Check of NOx sensor | 0.0 to 6553.5 seconds | 0.1 seconds / bit |
| 01 | D3 | 86 | NOx Sensor Performance - Signal High | -9.994 to +9.994 | 0.000305 per bit |
| 01 | D4 | 86 | NOx Sensor Performance - Signal Low | -9.994 to +9.994 | 0.000305 per bit |
| | | | | | |
| Oxygen Sensor Monitor Bank 1 Sensor 2 | | | | | |
| 02 | 05 | 20 | B1S2 rich-lean switch time in fuel cut-off | 0.000:1 to 255.99:1 ratio | 0.0039062 / bit |
| 02 | 8A | 24 | Post Catalyst Sensor Open Test | 0 to 65535 counts | 1 count / bit |
| 02 | 8B | 0A | Post Catalyst Sensor Rich Test | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 02 | 8C | 0A | Post Catalyst Sensor Lean Test | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 02 | 91 | 0A | Post Catalyst Sensor Delayed Initial R/L Response Test | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 02 | 92 | 0A | Post Catalyst Sensor Delayed Initial L/R Response Test | =E430.0000 to 7.9900 Volts | 0.122 mV / bit |
| 02 | 93 | 03 | Post Catalyst Sensor Slow R/L Response Test | 0 to +655.35 unitless | 0.01 per bit |
| 02 | 94 | 03 | Post Catalyst Sensor Slow L/R Response Test | 0 to +655.35 unitless | 0.01 per bit |
| 02 | D5 | 01 | NOx Sensor Performance - Signal Insufficient Peak Value | 0 to +65535 unitless | 1 per bit |
| 02 | D6 | 01 | NOx Sensor Performance | 0 to +65535 unitless | 1 per bit |
| 02 | D7 | 30 | Oxygen concentration implausibly high in part load | 0 to 100 percent | 0.001526 % per bit |
| 02 | D8 | 30 | Oxygen concentration implausibly low in part load | 0 to 100 percent | 0.001526 % per bit |
| | | | | | |
| Oxygen Sensor Monitor Bank 1 Sensor 3 | | | | | |
| 03 | 8A | 24 | Post Catalyst Sensor Open Test | 0 to 65535 counts | 1 count / bit |

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|---------------------------------------|-------------------|------------------------------|--|--|---|
| 03 | 8B | 0A | Post Catalyst Sensor Rich Test | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 03 | 8C | 0A | Post Catalyst Sensor Lean Test | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 03 | 91 | 0A | Post Catalyst Sensor Delayed Initial R/L Response Test | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 03 | 92 | 0A | Post Catalyst Sensor Delayed Initial L/R Response Test | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 03 | 93 | 03 | Post Catalyst Sensor Slow R/L Response Test | 0 to +655.35 unitless | 0.01 per bit |
| 03 | 94 | 03 | Post Catalyst Sensor Slow L/R Response Test | 0 to +655.35 unitless | 0.01 per bit |
| | | | | | |
| Oxygen Sensor Monitor Bank 2 Sensor 1 | | | | | |
| 05 | 01 | 0A | Rich to Lean Sensor Threshold Voltage | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 05 | 02 | 0A | Lean to Rich Sensor Threshold Voltage | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 05 | 03 | 0A | Low Sensor Voltage for Switch Time Calculation | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 05 | 04 | 0A | High Sensor Voltage for Switch Time Calculation | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 05 | 05 | 10 | Rich to Lean Sensor Switch Time | 0.0000 to 65.535 seconds | 1 ms / bit |
| 05 | 06 | 10 | Lean to Rich Sensor Switch Time | 0.0000 to 65.535 seconds | 1 ms / bit |
| 05 | 10 ⁽¹⁾ | 06 | B2S1 WRAF Slow Response | 0 to 19.99 raw value | 0.000305 / bit |
| 05 | 80 | 2B | Rich to Lean Switches Test Results | 0 to 65535 switches | 1 switch / bit |
| 05 | 81 | 2B | Lean to Rich Switches Test Results | 0 to 65535 switches | 1 switch / bit |
| 05 | 82 | 20 | Rich-Lean Response to Lean-Rich Response Ratio | 0 to 255.996 | 0.0039062 / bit |
| 05 | 83 | 0A | Low Sensor Voltage for Half Period Time Calculation | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 05 | 84 | 0A | High Sensor Voltage for Half Period Time Calculation | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 05 | 85 | 10 | O2 Sensor Rich to Lean Half Period Time | 0.0000 to 65.535 seconds | 1 ms / bit |
| 05 | 86 | 10 | O2 Sensor Lean to Rich Half Period Time | 0.0000 to 65.535 seconds | 1 ms / bit |
| 05 | 87 | 10 | Sum of O2 Sensor L/R and R/L Half Period Times | 0.0000 to 65.535 seconds | 1 ms / bit |
| 05 | 88 | 90 | Difference Between Rich-Lean Response and Lean-Rich Response | -32.768 to +32.767 seconds | 0.001 sec per bit |

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| 05 | 89 | 06 | B2S1 WRAF Slow Response | 0 to 19.99 raw value | 0.000305 / bit |
| 05 | 8E | B1 | Absolute Average Slope of the O2 Sensor Signal | −65536 to +65534 mV/s | 2 mV/s per bit |
| 05 | 8F | B1 | Instantaneous Positive Slope of the O2 Sensor Signal | −65536 to +65534 mV/s | 2 mV/s per bit |
| 05 | 90 | B1 | Instantaneous Negative Slope of the O2 Sensor Signal | −65536 to +65534 mV/s | 2 mV/s per bit |
| 05 | 91 | 90 | O2 Sensor Delayed Response - Rich to Lean | −32.768 to +32.767 seconds | 0.001 sec per bit |
| 05 | 92 | 90 | O2 Sensor Delayed Response - Lean to Rich | −32.768 to +32.767 seconds | 0.001 sec per bit |
| | | | | | |
| Oxygen Sensor Monitor Bank 2 Sensor 2 | | | | | |
| 06 | 05 | 20 | B2S2 rich-lean switch time in fuel cut-off | 0.000:1 to 255.99:1 ratio | 0.0039062 / bit |
| 06 | 8A | 24 | Post Catalyst Sensor Open Test | 0 to 65535 counts | 1 count / bit |
| 06 | 8B | 0A | Post Catalyst Sensor Rich Tests | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 06 | 8C | 0A | Post Catalyst Sensor Lean Tests | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 06 | 91 | 0A | Post Catalyst Sensor Delayed Initial R/L Response Test | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 06 | 92 | 0A | Post Catalyst Sensor Delayed Initial L/R Response Test | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 06 | 93 | 03 | Post Catalyst Sensor Slow R/L Response Test | 0 to +655.35 unitless | 0.01 per bit |
| 06 | 94 | 03 | Post Catalyst Sensor Slow L/R Response Test | 0 to +655.35 unitless | 0.01 per bit |
| | | | | | |
| Oxygen Sensor Monitor Bank 2 Sensor 3 | | | | | |
| 07 | 8A | 24 | Post Catalyst Sensor Open Test | 0 to 65535 counts | 1 count / bit |
| 07 | 8B | 0A | Post Catalyst Sensor Rich Tests | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 07 | 8C | 0A | Post Catalyst Sensor Lean Tests | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 07 | 91 | 0A | Post Catalyst Sensor Delayed Initial R/L Response Test | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 07 | 92 | 0A | Post Catalyst Sensor Delayed Initial L/R Response Test | 0.0000 to 7.9900 Volts | 0.122 mV / bit |

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| 07 | 93 | 03 | Post Catalyst Sensor Slow R/L Response Test | 0 to +655.35 unitless | 0.01 per bit |
| 07 | 94 | 03 | Post Catalyst Sensor Slow L/R Response Test | 0 to +655.35 unitless | 0.01 per bit |
| | | | | | |
| Catalyst Monitor Bank 1 | | | | | |
| 21 | A0 | 01 | Catalyst Test Bank 1 (using Catalyst DFCO Exit Test) | 0 to +65535 unitless | 1 per bit |
| 21 | A0 | 05 | Catalyst Test Bank 1 (using OSC normalized ratio units) | 0 to +1.999 unitless | 0.0000305 per bit |
| 21 | A0 | 86 | Catalyst Test Bank 1 (using OSC normalized ratio units) | -9.994 to +9.994 | 0.000305 per bit |
| 21 | A0 | 90 | Catalyst Test Bank 1 (using OSC compensation units) | -32.768 to +32.767 seconds | 0.001 sec per bit |
| 21 | A0 | 05 | Catalyst Diag B1 | 0 to 1.999 raw value | 0.0000305 / bit |
| 21 | A1 | 01 | Catalyst Test Bank 1 (using Catalyst DFCO Exit Test) | 0 to +65535 unitless | 1 per bit |
| 21 | A2 | 06 | Passive monitoring of the oxidation catalyst efficiency | 0 to +19.988 unitless | 0.000305 per bit |
| | | | | | |
| Catalyst Monitor Bank 2 | | | | | |
| 22 | A0 | 01 | Catalyst Test Bank 2 (using Catalyst DFCO Exit Test) | 0 to +65535 unitless | 1 per bit |
| 22 | A0 | 05 | Catalyst Test Bank 2 (using OSC normalized ratio units) | 0 to +1.999 unitless | 0.0000305 per bit |
| 22 | A0 | 86 | Catalyst Test Bank 2 (using OSC normalized ratio units) | -9.994 to +9.994 | 0.000305 per bit |
| 22 | A0 | 90 | Catalyst Test Bank 2 (using OSC compensation units) | -32.768 to +32.767 seconds | 0.001 sec per bit |
| 22 | A0 | 05 | Catalyst Diag B2 | 0 to 1.999 raw value | 0.0000305 / bit |
| | | | | | |
| EGR Monitor Bank 1 | | | | | |
| 31 | A0 | 82 | EGR Slow Response - Increasing Flow | -3276.8 to +3276.7 counts | 0.1 sec per bit |

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| 31 | A1 | 82 | EGR Slow Response – Decreasing Flow | –3276.8 to +3276.7 counts | 0.1 sec per bit |
| 31 | A2 | 06 | EGR Cooler Efficiency | 0 to +19.988 unitless | 0.000305 per bit |
| 31 | A3 | 82 | Excessive EGR | –3276.8 to +3276.7 counts | 0.1 sec per bit |
| 31 | A4 | 82 | Insufficient EGR | –3276.8 to +3276.7 counts | 0.1 sec per bit |
| 31 | A8 | FD | EGRF Decel Service Test | –32.768 to +32.767 kPa | 0.001 kPa / bit |
| 31 | A9 | FD ⁽⁶⁾ | EGRF Quick Test | –32.768 to +32.767 kPa | 0.001 kPa / bit |
| 31 | AA | 24 | O2 Positive Concentration Rationality Test | 0 to 65535 counts | 1 count / bit |
| 31 | AB | 24 | O2 Negative Concentration Rationality Test | 0 to 65535 counts | 1 count / bit |
| 31 | AC | 24 | Throttle Airflow Positive Control Deviation Test | 0 to 65535 counts | 1 count / bit |
| 31 | AD | 24 | Throttle Airflow Negative Control Deviation Test | 0 to 65535 counts | 1 count / bit |
| 31 | AE | 24 | Airflow Positive Control Deviation Test | 0 to 65535 counts | 1 count / bit |
| 31 | AF | 24 | Airflow Negative Control Deviation Test | 0 to 65535 counts | 1 count / bit |
| | | | | | |
| VVT Monitor Bank 1 | | | | | |
| 35 | B0 | 24 | PHSR Intake CAM Phaser Rationality Test | 0 to 65535 counts | 1 count / bit |
| 35 | B1 | 24 | PHSR Exhaust CAM Phaser Rationality Test | 0 to 65535 counts | 1 count / bit |
| | | | | | |
| VVT Monitor Bank 2 | | | | | |
| 36 | B0 | 24 | PHSR Intake CAM Phaser Rationality Test | 0 to 65535 counts | 1 count / bit |

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| 36 | B1 | 24 | PHSR Exhaust CAM Phaser Rationality Test | 0 to 65535 counts | 1 count / bit |
| | | | | | |
| | EVAP Monitor (Cap off) | | | | |
| 39 | 39 ⁽¹⁾ | FE | Cap Off/gross Leak | -8192 to +8191.75 Pa | 0.25 Pa / bit |
| 39 | 3A ⁽¹⁾ | 32 | Large leak | 0 to 1.999 inch | 0.0000305 / bit |
| 39 | 3B ⁽²⁾ | | | | |
| 39 | B0 | FE | Cap Off/gross Leak | -8192 to +8191.75 Pa | 0.25 Pa / bit |
| 39 | B1 | 32 | Large leak | 0 to 1.999 inch | 0.0000305 / bit |
| | | | | | |
| | EVAP Monitor (Large) EVPD = Evap Pressure / Vacuum Decay | | | | |
| 3A | C0 | 31 ⁽¹⁰⁾ | EVPD Weak Vacuum Test scaled in liters | 0.0 to 65.535 liters | 0.001 liters / bit |
| 3A | C0 | 3F | EVPD_Weak_Vacuum_Test (scaled in liters) | 0.0 to 655.35 liters | 0.01 liters / bit |
| 3A | C0 | FD | EVPD Weak Vacuum Test scaled in kPa | -32.768 to +32.767 kPa | 0.001 kPa / bit |
| 3A | C1 | 11 | EVPD Weak Vac Flwup Test | 0.0 to 6553.5 seconds | 0.1 seconds / bit |
| 3A | EC | 0A | EVPD_NV_LargeLeak_EREV_Test1 (scaled in Volts) | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 3A | ED | 0A | EVPD_NV_LargeLeak_EREV_Test2 (scaled in Volts) | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 3A | EE | FD | EVPD_NV_LargeLeak_EREV_Test3 (scaled in kPa) | -32.768 to +32.767 kPa | 0.001 kPa / bit |
| | | | | | |
| | EVAP Monitor 0.040" EVPD = Evap Pressure / Vacuum Decay | | | | |
| 3B | C2 | 32 | EVPD NV 0.040 Test scaled in inches | 0.000 to 1.999 inches | 0.0000305 inches / bit |
| 3B | C2 | B0 | EVPD NV 0.040 Test scaled in percentage slope | -100.01 to +100.00% | +0.003052 percent / bit |

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| | | | | | |
| | EVAP Monitor 0.020" EVPD = Evap Pressure / Vacuum Decay EONV = Engine Off Natural Vacuum EREV = Extended Range Electric Vehicle | | | | |
| 3C | C3 | 32 | EVPD NV 0.020 Test scaled in inches | 0.000 to 1.999 inches | 0.0000305 inches / bit |
| 3C | C3 | B0 | EVPD NV 0.020 Test scaled in percentage slope | -100.01 to +100.00% | +0.003052 percent / bit |
| 3C | C8 | 20 | EONV NV 0.020 Test for EONV | 0.000:1 to 255.996:1 ratio | 0.0039 / bit unitless |
| 3C | C8 | FD | EONV NV 0.020 Test for EONV | -32.768 to +32.767 kPa | 0.001 kPa / bit |
| 3C | C8 | 05 | EONV 0.020" leak | 0 to 1.999 raw value | 0.0000305 / bit |
| 3C | C9 | FE | Canister Vent Valve 'stuck closed' | -8192 to +8191.75 Pa | 0.25 Pa / bit |
| 3C | C9 | 20 | EONV Vacuum Rezero Test for EONV | 0.000:1 to 255.996:1 ratio | 0.0039 / bit unitless |
| 3C | CA | 24 | EONV Fuel Level Rationality Test for EONV | 0 to 65535 counts | 1 count / bit |
| 3C | CB | FE | Canister Purge Valve 'stuck open' | -8192 to +8191.75 Pa | 0.25 Pa / bit |
| 3C | CB | 24 | EONV Vacuum Rationality Test for EONV | 0 to 65535 counts | 1 count / bit |
| 3C | E0 | 0A | EVPD_NV_020_EREV_Test1 (scaled in Volts) | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 3C | E1 | 0A | EVPD_NV_020_EREV_Test2 (scaled in Volts) | 0.0000 to 7.9900 Volts | 0.122 mV / bit |
| 3C | E2 | FD | EVPD_NV_020_EREV_Test3 (scaled in kPa) | -32.768 to +32.767 kPa | 0.001 kPa / bit |

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| 3C | E3 | FD | EREV LeakBetweenDCV_LDP Test1(scaled in kPa) | –32.768 to +32.767 kPa | 0.001 kPa / bit |
| 3C | E4 | 2E | EREV VentValveStuckOpen Test1 | FALSE, TRUE | N/A |
| 3C | E5 | FE | EREV VentValveStuckOpen Test2 (scaled in inH2O) | –8192 to +8191.75 Pa or approx –32.768 to +32.767 inches H2O | 0.25 Pa per bit or approx 0.001 inches H2O per bit |
| 3C | E6 | 2E | EREV VentValveStuckClsd Test1 | FALSE, TRUE | N/A |
| 3C | E7 | FE | EREV VentValveStuckClsd Test2 (scaled in inH2O) | –8192 to +8191.75 Pa or approx –32.768 to +32.767 inches H2O | 0.25 Pa per bit or approx 0.001 inches H2O per bit |
| 3C | E8 | FD | EREV VentValveStuckClsd Test3 (scaled in kPa) | –32.768 to +32.767 kPa | 0.001 kPa / bit |
| | | | | | |
| <div>Purge Flow Monitor</div> <div>EVPD = Evap Pressure / Vacuum Decay</div> | | | | | |
| 3D | C4 | 11 | EVPD NV Purge Pass Test | 0.0 to 6553.5 seconds | 0.1 seconds / bit |
| 3D | C5 | FE | EVPD Purge Vac Fail Test | –8192 to +8191.75 Pa or approx –32.768 to +32.767 inches H2O | 0.25 Pa per bit or approx 0.001 inches H2O per bit |
| 3D | C6 | 11 ⁽⁵⁾ | EVPD Vent Rest Test 1 | 0.0 to 6553.5 seconds | 0.1 seconds / bit |
| 3D | C7 | FD | EVPD Vent Rest Test 2 - scaled in kPa | –32.768 to +32.767 kPa | 0.001 kPa / bit |
| 3D | C7 | 31 | EVPD Vent Rest Test 2 - scaled in liters | 0.0 to 65.535 liters | 0.001 liters / bit |

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| 3D | EA | FE | EREV_VentSystemPerf_Test (scaled in inH2O) | -8192 to +8191.75 Pa or approx -32.768 to +32.767 inches H2O | 0.25 Pa per bit or approx 0.001 inches H2O per bit |
| 3D | EB | FD | EREV_PurgeValveFlow_Test (scaled in kPa) | -32.768 to +32.767 kPa | 0.001 kPa / bit |
| 3D | EC | 24 | EREV_VentSysPerf_Test (scaled in counts) | 0 to 65535 counts | 1 count / bit |
| | | | | | |
| Oxygen Sensor Heater Monitor Bank 1 Sensor 1 | | | | | |
| 41 | D0 | 11 | Time to Activity Monitor | 0.0 to 6553.5 seconds | 0.1 seconds / bit |
| 41 | D1 | 0F | Current Feedback Amps Value Test | 0.00 to 655.35 Amperes | 0.01 Amperes / bit |
| 41 | D2 | 24 | Current Feedback X/Y Samples Test | 0 to 65535 counts | 1 count / bit |
| 41 | D3 | 84 | Heater Resistance Error Test | -32.768 to +32.767 differential ohms | 0.001 Ohm/bit |
| 41 | D3 | 11 | Sensor Heater Monitor B1S1 'operative readiness time' | 0 to 6553.5 seconds | 100ms / bit |
| 41 | D4 | 96 | Sensor Heater Monitor B1S1 'tip temperature out of range' | -3276.8 to + 3276.7 degC | 0.1 degC / bit |
| 41 | D4 | 24 | UEGO Heater Temperature Test | 0 to 65535 counts | 1 count / bit |
| | | | | | |
| Oxygen Sensor Heater Monitor Bank 1 Sensor 2 | | | | | |
| 42 | D0 | 11 | Time to Activity Monitor | 0.0 to 6553.5 seconds | 0.1 seconds / bit |
| 42 | D1 | 0F | Current Feedback Amps Value Test | 0.00 to 655.35 Amperes | 0.01 Amperes / bit |
| 42 | D2 | 24 | Current Feedback X/Y Samples Test | 0 to 65535 counts | 1 count / bit |
| 42 | D3 | 84 | Heater Resistance Error Test | -32.768 to +32.767 differential ohms | 0.001 Ohm / bit |
| 42 | D5 | 14 | Sensor Heater Monitor B1S2 ' resistance out of range' | 0 to 65535 ohms | 1 ohm / bit |

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| | | | | | |
| | Oxygen Sensor Heater Monitor Bank 1 Sensor 3 | | | | |
| 43 | D0 | 11 | Time to Activity Monitor | 0.0 to 6553.5 seconds | 0.1 seconds / bit |
| 43 | D1 | 0F | Current Feedback Amps Value Test | 0.00 to 655.35 Amperes | 0.01 Amperes / bit |
| 43 | D2 | 24 | Current Feedback X/Y Samples Test | 0 to 65535 counts | 1 count / bit |
| 43 | D3 | 84 | Heater Resistance Error Test | -32.768 to +32.767 differential ohms | 0.001 Ohm / bit |
| | | | | | |
| | Oxygen Sensor Heater Monitor Bank 2 Sensor 1 | | | | |
| 45 | D0 | 11 | Time to Activity Monitor | 0.0 to 6553.5 seconds | 0.1 seconds / bit |
| 45 | D1 | 0F | Current Feedback Amps Value Test | 0.00 to 655.35 Amperes | 0.01 Amperes / bit |
| 45 | D2 | 24 | Current Feedback X/Y Samples Test | 0 to 65535 counts | 1 count / bit |
| 45 | D3 | 84 | Heater Resistance Error Test | -32.768 to +32.767 differential ohms | 0.001 Ohm / bit |
| 45 | D3 | 11 | Sensor Heater Monitor B2S1 'operative readiness time' | 0 to 6553.5 seconds | 100ms / bit |
| 45 | D4 | 96 | Sensor Heater Monitor B2S1 'tip temperature out of range' | -3276.8 to + 3276.7 degC | 0.1 degC / bit |
| | | | | | |
| | Oxygen Sensor Heater Monitor Bank 2 Sensor 2 | | | | |
| 46 | D0 | 11 | Time to Activity Monitor | 0.0 to 6553.5 seconds | 0.1 seconds / bit |
| 46 | D1 | 0F | Current Feedback Amps Value Test | 0.00 to 655.35 Amperes | 0.01 Amperes / bit |
| 46 | D2 | 24 | Current Feedback X/Y Samples Test | 0 to 65535 counts | 1 count / bit |
| 46 | D3 | 84 | Heater Resistance Error Test | -32.768 to +32.767 differential ohms | 0.001 Ohm / bit |
| 46 | D5 | 14 | Sensor Heater Monitor B2S2 'resistance out of range' | 0 to 65535 ohms | 1 ohm / bit |

GM mode \$06 data definitions for GM vehicles using GMLAN diagnostic data link

Some items have footnotes, defined on the last pages.

| OBD Monitor ID (OBDMID) | Test ID (TID) | Units and Scaling ID (UASID) | Description | Range For Information ONLY. Source information is J1979 | Resolution For Information ONLY. Source information is J1979 |
|-------------------------|--|------------------------------|--|---|--|
| | | | | | |
| | Oxygen Sensor Heater Monitor Bank 2 Sensor 3 | | | | |
| 47 | D0 | 11 | Time to Activity Monitor | 0.0 to 6553.5 seconds | 0.1 seconds / bit |
| 47 | D1 | 0F | Current Feedback Amps Value Test | 0.00 to 655.35 Amperes | 0.01 Amperes / bit |
| 47 | D2 | 24 | Current Feedback X/Y Samples Test | 0 to 65535 counts | 1 count / bit |
| 47 | D3 | 84 | Heater Resistance Error Test | -32.768 to +32.767 differential ohms | 0.001 Ohm / bit |
| | | | | | |
| | Secondary AIR Monitor 1 | | | | |
| 71 | E0 | 24 | AIR Bank 1 Test | 0 to 65535 counts | 1 count / bit |
| 71 | E1 | FD | AIR On Pressure Error Test Bank 1 | -32.768 to +32.767 kPa | 0.001 kPa / bit |
| 71 | E2 | FD | AIR Valve Shut Pressure Error Test Bank 1 | -32.768 to +32.767 kPa | 0.001 kPa / bit |
| 71 | E3 | FD | AIR Pump Off Pressure Error Test Bank 1 | -32.768 to +32.767 kPa | 0.001 kPa / bit |
| 71 | E5 | 02 | AIR Pump On Pressure Variation Test Bank 1 | 0 to 6553.5 unitless | 0.1 / bit |
| | | | | | |
| | Secondary AIR Monitor 2 | | | | |
| 72 | E0 | 24 | AIR Bank 2 Test | 0 to 65535 counts | 1 count / bit |
| 72 | E1 | FD | AIR On Pressure Error Test Bank 2 | -32.768 to +32.767 kPa | 0.001 kPa / bit |
| 72 | E2 | FD | AIR Valve Shut Pressure Error Test Bank 2 | -32.768 to +32.767 kPa | 0.001 kPa / bit |
| 72 | E3 | FD | AIR Pump Off Pressure Error Test Bank 2 | -32.768 to +32.767 kPa | 0.001 kPa / bit |
| 72 | E4 | FD | AIR On Pressure Differential, <i>between</i> Bank 1 and Bank 2 | -32.768 to +32.767 kPa | 0.001 kPa / bit |
| 72 | E5 | 02 | AIR Pump On Pressure Variation Test Bank 2 | 0 to 6553.5 unitless | 0.1 / bit |

GM mode \$06 data definitions for GM vehicles using GMLAN diagnostic data link

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| OBD Monitor ID (OBDMID) | Test ID (TID) | Units and Scaling ID (UASID) | Description | Range <u>For Information ONLY.</u> Source information is J1979 | Resolution <u>For Information ONLY.</u> Source information is J1979 |
|-------------------------|----------------------------|------------------------------|--------------------------------------|--|---|
| | | | | | |
| | Fuel System Monitor Bank 1 | | | | |
| 81 | D1 | 3C | Cylinder 1 Injection Timing Retarded | [0 to 6553.5] usec | 0.1 usec per bit |
| 81 | D2 | 3C | Cylinder 2 Injection Timing Retarded | [0 to 6553.5] usec | 0.1 usec per bit |
| 81 | D3 | 3C | Cylinder 3 Injection Timing Retarded | [0 to 6553.5] usec | 0.1 usec per bit |
| 81 | D4 | 3C | Cylinder 4 Injection Timing Retarded | [0 to 6553.5] usec | 0.1 usec per bit |
| 81 | D5 | 3C | Cylinder 5 Injection Timing Retarded | [0 to 6553.5] usec | 0.1 usec per bit |
| 81 | D6 | 3C | Cylinder 6 Injection Timing Retarded | [0 to 6553.5] usec | 0.1 usec per bit |
| 81 | D7 | 3C | Cylinder 7 Injection Timing Retarded | [0 to 6553.5] usec | 0.1 usec per bit |
| 81 | D8 | 3C | Cylinder 8 Injection Timing Retarded | [0 to 6553.5] usec | 0.1 usec per bit |
| 81 | A1 | 3C | Cylinder 1 Injection Timing Advanced | [0 to 6553.5] usec | 0.1 usec per bit |
| 81 | A2 | 3C | Cylinder 2 Injection Timing Advanced | [0 to 6553.5] usec | 0.1 usec per bit |
| 81 | A3 | 3C | Cylinder 3 Injection Timing Advanced | [0 to 6553.5] usec | 0.1 usec per bit |
| 81 | A4 | 3C | Cylinder 4 Injection Timing Advanced | [0 to 6553.5] usec | 0.1 usec per bit |
| 81 | A5 | 3C | Cylinder 5 Injection Timing Advanced | [0 to 6553.5] usec | 0.1 usec per bit |
| 81 | A6 | 3C | Cylinder 6 Injection Timing Advanced | [0 to 6553.5] usec | 0.1 usec per bit |
| 81 | A7 | 3C | Cylinder 7 Injection Timing Advanced | [0 to 6553.5] usec | 0.1 usec per bit |

GM mode \$06 data definitions for GM vehicles using GMLAN diagnostic data link

Some items have footnotes, defined on the last pages.

| OBD Monitor ID (OBDMID) | Test ID (TID) | Units and Scaling ID (UASID) | Description | Range <u>For Information ONLY.</u> Source information is J1979 | Resolution <u>For Information ONLY.</u> Source information is J1979 |
|---------------------------------------|---------------|------------------------------|--|--|---|
| 81 | A8 | 3C | Cylinder 8 Injection Timing Advanced | [0 to 6553.5] usec | 0.1 usec per bit |
| | | | | | |
| Boost Pressure Control Monitor Bank 1 | | | | | |
| 85 | B0 | 30 | Turbocharger Vane Position Slow Response - Increasing Position | [0 to 100] Percent | 0.001526 % per bit |
| 85 | B1 | 30 | Turbocharger Vane Position Slow Response - Decreasing Position | [0 to 100] Percent | 0.001526 % per bit |
| 85 | B2 | 6 | Charge Air Cooler Efficiency | [0 to 19.988] unitless | 0.000305 per bit |
| 85 | B3 | FC | Monitoring for Underboost | [-327.68 to +327.67] kPa | 0.01 kPa per bit |
| 85 | B4 | FC | Monitoring for Overboost | [-327.68 to +327.67] kPa | 0.01 kPa per bit |
| 85 | B5 | AF | Turbocharger Vane Position Performance - Low Position | [-327.68 to +327.67] kPa | 0.01 kPa per bit |
| 85 | B6 | AF | Turbocharger Vane Position Performance - High Position | [-327.68 to +327.67] kPa | 0.01 % per bit |
| | | | | | |
| NOx Catalyst Monitor Bank 1 | | | | | |
| 98 | 90 | 84 | SCR NOx Efficiency | [-32.768 to 32.767] unitless | 0.001 per bit |
| 98 | 91 | 84 | Diesel Emission Fluid Quality | [-32.768 to 32.767] unitless | 0.001 per bit |

GM mode \$06 data definitions for GM vehicles using GMLAN diagnostic data link

Some items have footnotes, defined on the last pages.

| OBD Monitor ID (OBDMID) | Test ID (TID) | Units and Scaling ID (UASID) | Description | Range <small>For Information ONLY. Source information is J1979</small> | Resolution <small>For Information ONLY. Source information is J1979</small> |
|-------------------------|-------------------------|------------------------------|--|---|--|
| 98 | 92 | 3 | Closed loop Reductant Injection Control at Limit-Flow too low | [0 to 655.35] unitless | 0.01 per bit |
| 98 | 93 | 3 | Closed Loop Reductant Injection Control at Limit-Flow too High | [0 to 655.35] unitless | 0.01 per bit |
| | | | | | |
| | Misfire Cylinder 1 Data | | | | |
| A2 | 0B | 24 ⁽⁴⁾ | EWMA (Exponential Weighted Moving Average) misfire counts for the last 10 driving cycles | 0 to 65535 counts | 1 count / bit |
| A2 | 0C | 24 | Misfire counts for the last / current driving cycles | 0 to 65535 counts | 1 count / bit |
| | | | | | |
| | Misfire Cylinder 2 Data | | | | |
| A3 | 0B | 24 ^{(4) (7)} | EWMA (Exponential Weighted Moving Average) misfire counts for the last 10 driving cycles | 0 to 65535 counts | 1 count / bit |
| A3 | 0C | 24 ⁽⁷⁾ | Misfire counts for the last / current driving cycles | 0 to 65535 counts | 1 count / bit |
| | | | | | |
| | Misfire Cylinder 3 Data | | | | |
| A4 | 0B | 24 ^{(4) (7)} | EWMA (Exponential Weighted Moving Average) misfire counts for the last 10 driving cycles | 0 to 65535 counts | 1 count / bit |
| A4 | 0C | 24 ⁽⁷⁾ | Misfire counts for the last / current driving cycles | 0 to 65535 counts | 1 count / bit |
| | | | | | |
| | Misfire Cylinder 4 Data | | | | |
| A5 | 0B | 24 ^{(4) (7)} | EWMA (Exponential Weighted Moving Average) misfire counts for the last 10 driving cycles | 0 to 65535 counts | 1 count / bit |

GM mode \$06 data definitions for GM vehicles using GMLAN diagnostic data link

Some items have footnotes, defined on the last pages.

| OBD Monitor ID (OBDMID) | Test ID (TID) | Units and Scaling ID (UASID) | Description | Range <u>For Information ONLY.</u> Source information is J1979 | Resolution <u>For Information ONLY.</u> Source information is J1979 |
|-------------------------|---------------|------------------------------|--|--|---|
| A5 | 0C | 24 ⁽⁷⁾ | Misfire counts for the last / current driving cycles | 0 to 65535 counts | 1 count / bit |
| A5 | A5 | 24 | EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles | 0 to 65535 counts | 1 count / bit |
| | | | | | |
| Misfire Cylinder 5 Data | | | | | |
| A6 | 0B | 24 ⁽⁴⁾ | EWMA (Exponential Weighted Moving Average) misfire counts for the last 10 driving cycles | 0 to 65535 counts | 1 count / bit |
| A6 | 0C | 24 | Misfire counts for the last / current driving cycles | 0 to 65535 counts | 1 count / bit |
| A6 | A5 | 24 | EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles | 0 to 65535 counts | 1 count / bit |
| | | | | | |
| Misfire Cylinder 6 Data | | | | | |
| A7 | 0B | 24 ⁽⁴⁾ | EWMA (Exponential Weighted Moving Average) misfire counts for the last 10 driving cycles | 0 to 65535 counts | 1 count / bit |
| A7 | 0C | 24 | Misfire counts for the last / current driving cycles | 0 to 65535 counts | 1 count / bit |
| A7 | A5 | 24 | EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles | 0 to 65535 counts | 1 count / bit |
| | | | | | |
| Misfire Cylinder 7 Data | | | | | |
| A8 | 0B | 24 | EWMA (Exponential Weighted Moving Average) misfire counts for the last 10 driving cycles | 0 to 65535 counts | 1 count / bit |

GM mode \$06 data definitions for GM vehicles using GMLAN diagnostic data link

Some items have footnotes, defined on the last pages.

| OBD Monitor ID (OBDMID) | Test ID (TID) | Units and Scaling ID (UASID) | Description | Range <small>For Information ONLY. Source information is J1979</small> | Resolution <small>For Information ONLY. Source information is J1979</small> |
|-------------------------|--------------------------|------------------------------|--|---|--|
| A8 | 0C | 24 | Misfire counts for the last / current driving cycles | 0 to 65535 counts | 1 count / bit |
| A8 | A5 | 24 | EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles | 0 to 65535 counts | 1 count / bit |
| | | | | | |
| | Misfire Cylinder 8 Data | | | | |
| A9 | 0B | 24 | EWMA (Exponential Weighted Moving Average) misfire counts for the last 10 driving cycles | 0 to 65535 counts | 1 count / bit |
| A9 | 0C | 24 | Misfire counts for the last / current driving cycles | 0 to 65535 counts | 1 count / bit |
| A9 | A5 | 24 | EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles | 0 to 65535 counts | 1 count / bit |
| | | | | | |
| | Misfire Cylinder 9 Data | | | | |
| AA | 0B | 24 | EWMA (Exponential Weighted Moving Average) misfire counts for the last 10 driving cycles | 0 to 65535 counts | 1 count / bit |
| AA | 0C | 24 | Misfire counts for the last / current driving cycles | 0 to 65535 counts | 1 count / bit |
| | | | | | |
| | Misfire Cylinder 10 Data | | | | |
| AB | 0B | 24 | EWMA (Exponential Weighted Moving Average) misfire counts for the last 10 driving cycles | 0 to 65535 counts | 1 count / bit |
| AB | 0C | 24 | Misfire counts for the last / current driving cycles | 0 to 65535 counts | 1 count / bit |

GM mode \$06 data definitions for GM vehicles using GMLAN diagnostic data link

Some items have footnotes, defined on the last pages.

| OBD Monitor ID (OBDMID) | Test ID (TID) | Units and Scaling ID (UASID) | Description | Range <u>For Information ONLY.</u> Source information is J1979 | Resolution <u>For Information ONLY.</u> Source information is J1979 |
|-------------------------|--|------------------------------|--|--|---|
| | | | | | |
| | Misfire Cylinder 11 Data | | | | |
| AC | 0B | 24 | EWMA (Exponential Weighted Moving Average) misfire counts for the last 10 driving cycles | 0 to 65535 counts | 1 count / bit |
| AC | 0C | 24 | Misfire counts for the last / current driving cycles | 0 to 65535 counts | 1 count / bit |
| | | | | | |
| | Misfire Cylinder 12 Data | | | | |
| AD | 0B | 24 | EWMA (Exponential Weighted Moving Average) misfire counts for the last 10 driving cycles | 0 to 65535 counts | 1 count / bit |
| AD | 0C | 24 | Misfire counts for the last / current driving cycles | 0 to 65535 counts | 1 count / bit |
| | | | | | |
| | Particulate Matter Filter Monitor Bank 1 | | | | |
| B2 | F0 | 17 | Diesel Particulate Filter Efficiency | 0 to +655.35 kPa | 0.01 kPa / bit |
| B2 | F1 | 36 | Diesel Particulate Filter Regeneration Frequency | 0 to +655.35 kPa | 0.01 kPa / bit |
| B2 | F2 | 96 | Closed Loop Exhaust Fuel Injector DPF Regeneration Control At Limit - Temperature Too Low | -3276.8 to +3276.7 degrees C | 0.1 degrees C per bit |
| B2 | F3 | 96 | Closed Loop Exhaust Fuel Injector DPF Regeneration Control At Limit - Temperature Too High | -3276.8 to +3276.7 degrees C | 0.1 degrees C per bit |
| B2 | F4 | 96 | Closed Loop DPF Regeneration Control At Limit - Stage 1 Temperature Too Low | -3276.8 to +3276.7 degrees C | 0.1 degrees C per bit |
| B2 | F5 | 96 | Closed Loop DPF Regeneration Control At Limit - Stage 1 Temperature Too High | -3276.8 to +3276.7 degrees C | 0.1 degrees C per bit |

GM mode \$06 data definitions for GM vehicles using GMLAN diagnostic data link

Some items have footnotes, defined on the last pages.

FOOTNOTES

1 For the following 2004 model year vehicles:

Cadillac XLR, SRX with 4.6 liter (VIN A) engine

The following OBDMIDs and TIDs may be defined as shown:

OBDMID \$01

TID \$10 may be replaced with TID \$89

OBDMID \$05

TID \$10 may be replaced with TID \$89

OBDMID \$39

TID \$39 may be replaced with TID \$B0

TID \$3A may be replaced with TID \$B1

2 For the following 2004 model year vehicles:

Cadillac XLR, SRX with 4.6 liter (VIN A) engine

OBDMID \$39 TID \$3B: Test is not supported by the vehicle. Test limits and value are invalid.

GM mode \$06 data definitions for GM vehicles using GMLAN diagnostic data link

Some items have footnotes, defined on the last pages.

FOOTNOTES

3 For the following 2005 model year vehicles:

| |
|--|
| Chevrolet Equinox with 3.4 liter (VIN F) |
|--|

| |
|---|
| Chevrolet Malibu with 3.5 liter (VIN 8) |
|---|

| |
|---|
| Pontiac Grand Am with 3.5 liter (VIN 8) |
|---|

OBDMID \$01 TID \$88 test limits and value should be divided by 1000.

4 For the following 2005 model year vehicles:

| |
|--|
| Chevrolet Equinox with 3.4 liter (VIN F) |
|--|

| |
|---|
| Chevrolet Malibu with 3.5 liter (VIN 8) |
|---|

| |
|---|
| Pontiac Grand Am with 3.5 liter (VIN 8) |
|---|

OBDMID \$A2 through \$A7 TID \$0B test value should be multiplied by 10.

5 For the following 2007 model year vehicle:

| |
|--|
| Buick Lucerne with 3.8L (VIN 2) engine |
|--|

If the test limit for OBDMID \$3D TID \$6C reads 8.8 seconds (raw Hex value 58), the test value may be invalid.

If the test value is more than the test limit *-and-* P0446 is not set, the data is invalid.

If the test value is less than the test limit *-and-* P0446 is set, the data may be invalid.

GM mode \$06 data definitions for GM vehicles using GMLAN diagnostic data link

Some items have footnotes, defined on the last pages.

FOOTNOTES

6 For the following 2006 model year vehicles:

| |
|--|
| Buick Lucerne with 4.6L (VIN Y) engine |
|--|

| |
|--|
| Cadillac DTS with 4.6L (VIN Y -or- 9) engine |
|--|

OBDMID \$31 TID \$A9 test limits and test value should be multiplied by 4 (limit result to -32.768 -to- +32.767 kPa).

7 For the following 2007 model year vehicle:

| |
|---|
| Pontiac Solstice, Saturn Sky, with 2.0L (VIN X) engine. |
|---|

The OBDMID \$A3, \$A4, and \$A5 are misaligned with the cylinders.

OBDMID \$A3 Test IDs contain misfire data for cylinder #3, (not #2).

OBDMID \$A4 Test IDs contain misfire data for cylinder #4, (not #3).

OBDMID \$A5 Test IDs contain misfire data for cylinder #2, (not #4).

8 For the following 2011 model year vehicle:

| |
|---|
| Chevrolet Cruze with 1.8L (VIN H) engine |
|---|

OBDMID \$01 TID \$80 and TID \$81 test values and limits may not be available on all vehicles.

GM mode \$06 data definitions for GM vehicles using GMLAN diagnostic data link

Some items have footnotes, defined on the last pages.

FOOTNOTES

9 For the following 2011 model year vehicle:

Chevrolet Cruze with 1.8L (VIN H) engine

OBDMID \$01 TID \$91 and TID \$92: Tests are not supported by the vehicle. Test limits and values are invalid.

10 For the following vehicles:

All vehicles that respond with OBDMID \$3A TID \$C0 UASID \$31

Test value could equal the test limit when the test has failed.