http://www.totalcardiagnostics.com/support/Knowledgebase/Article/View/104/0/obd2-pids-for-programmers-technical

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **OBD Command** | **CAR OFF (IGNITION TO ON)** | **Car ON: IDLE** | **Car ON: High Throttle** |
| PIDS 01-20 | 0100 | ~~41 00~~ BE 1F B8 10 SEE BELOW |  |  |
| TROUBLE CODES | 0101 | ~~41 01~~ 81 07 65 00 SEE BELOW | ~~41 01~~ 81 07 65 00 |  |
| FUELS SYSTEM STATUS | 0103 | ~~41 03~~ 01 00 Open Loop Due to Insufficient Engine Temp? | SAME |  |
| Engine Load (A\*100/255) | 0104 | ~~41 04~~ 00  0% | ~~41 04~~ 2C (44 -> 17%)  ~~41 04~~ 23 (35 -> 14%) |  |
| Engine Coolant Temp (A-40) | 0105 | ~~41 05~~ 60 (96->56oC) | ~~41 05~~ 5F (95-> 55oC)  ~~41 05~~ 76(118->78oC) |  |
| Short Term Fuel % trim – Bank 1 (A-128) \* 100/128 | 0106 |  |  |  |
| Long Term Fuel % trim – Bank 1 (A-128) \* 100/128 | 0107 | ~~41 07~~ 85 (133)  3.9% |  | -100 = Rich, 100 = Lean |
| Short Term Fuel % trim – Bank 2 | 0108 | No Data |  |  |
| Long Term Fuel % trim – Bank 2 | 0109 | No Data |  |  |
| Fuel Pressure | 010A | No Data |  |  |
| Intake Manifold Pressure | 010B | No Data |  |  |
| RPM ((A\*256+B)/4) | 010C | ~~41 0C~~ 00 00  0 RPM | ~~41 0C~~ 10 C5 (16 197) (16\*256+197)/4  1074 RPM  ~~41 0C~~ 0B 22 (11 34)  (11\*256+34)/4  712 RPM | ~~410C~~4BFD (75 253)  (75\*256+253)/4  4863 RPM |
| Speed (A) | 010D | ~~41 0D~~ 00  0 km/hr | ~~41 0D~~ 00  0 km/hr | Moving slow: ~~410D~~07 7km/hr |
| Timing Advance A/2 – 64 | 010E | ~~41 0E~~ 8A (138)  5 ° relative to #1 cylinder | ~~41 0E~~ 9C (156)  14 |  |
| Intake Air Temp (A-40) | 010F | ~~41 0F~~ 4A (74->34oC) | ~~41 0F~~ 42 (66->26oC)  ~~41 0F~~ 44 (68->28oC) |  |
| MAF Airflow rate ((A\*256)+B) / 100 | 0110 | ~~41 10~~ 00 28 (0 40)  0.4 g/s | ~~41 10~~ 00 E5 (0 229) 2.29 g/s |  |
| Throttle Position A\*100/255 | 0111 | ~~41 11~~ 1D (29->11%) | ~~41 11~~ 1D | ~~4111~~25 (37->14.5%) |
| Commanded Secondary Air Status | 0112 | No Data |  |  |
| O2 Sensors Present [A0..A3] == Bank 1, Sensors 1-4 | 0113 | 41 13 03 | SAME | 03 = 0011… so sensor 1 &2 present |
| Bank 1 Sensor 1 O2 A \* 0.005(B-128) \* 100/128 | 0114 | ~~41 14~~ 00 80 (0 128)  0 Volts | ~~41 14~~ 07 80 (7 128)  0 Volts |  |
| Bank 1 Sensor 2 O2 A \* 0.005(B-128) \* 100/128 | 0115 | 41 15 00 FF (0 255)  0 Volts | 41 15 07 FF (7 255)  3.47V |  |
| Bank 1 Sensor 3 O2 | 0116 | No Data |  |  |
| Bank 1 Sensor 4 O2 | 0117 | No Data |  |  |
| Bank 2 Sensor 1 O2 | 0118 | No Data |  |  |
| Bank 2 Sensor 2 O2 | 0119 | No Data |  |  |
| Bank 2 Sensor 3 O2 | 011A | No Data |  |  |
| Bank 2 Sensor 4 O2 | 011B | No Data |  |  |
| OBD Standards | 011C | 41 1C 01 | SAME |  |
| Oxygen Sensors Present | 011D | No Data |  |  |
| PIDS Supported 21-40 | 0120 | No Data |  |  |
| PIDS Supported 41-60 | 0140 | No Data |  |  |
| Show Stored Trouble Codes | 03 | 43042000000000 |  |  |
| 05 Mode PIDS Supported | 050100 or 0500 | No Data |  |  |
| 09 Mode PIDS Supported | 0900 | 49 00 01 3F 00 00 00 |  |  |
| VIN | 0902 | No Data |  |  |

**0100 DECODED RESULTS**

|  |  |  |
| --- | --- | --- |
| PID | Binary | Hex |
| 01 | 1 | B |
| 02 | 0 |  |
| 03 | 1 |  |
| 04 | 1 |  |
| 05 | 1 | E |
| 06 | 1 |  |
| 07 | 1 |  |
| 08 | 0 |  |
| 09 | 0 | 1 |
| 0A | 0 |  |
| 0B | 0 |  |
| 0C | 1 |  |
| 0D | 1 | F |
| 0E | 1 |  |
| 0F | 1 |  |
| 10 | 1 |  |
| 11 | 1 | B |
| 12 | 0 |  |
| 13 | 1 |  |
| 14 | 1 |  |
| 15 | 1 | 8 |
| 16 | 0 |  |
| 17 | 0 |  |
| 18 | 0 |  |
| 19 | 0 | 1 |
| 1A | 0 |  |
| 1B | 0 |  |
| 1C | 1 |  |
| 1D | 0 | 0 |
| 1E | 0 |  |
| 1F | 0 |  |
|  | 0 |  |

**0101 DECODED RESULTS**

81 07 65 00

81 HEX is 129 = 128 for check engine light on + 1 for one code stored) NOT THIS DOESN’T GIVE ACTUAL CODE!!!