

MY07 HFV6 GMX320/295 E55 - Mode \$06 data definitions for GM vehicles using CAN (GMLAN) diagnostic data link

OBD Monitor ID (OBDMID)	Test ID (TID)	Units and Scaling ID (UASID)	Description	Range <i>For Information ONLY.</i> Source information is ISO-15031-5 document	Resolution <i>For Information ONLY.</i> Source information is ISO-15031-5 document	Associated DTC
			Oxygen Sensor Monitor Bank 1 Sensor 1			
01	83	05	Dynamic Response Performance (Normalized)	0.0 to 1.999	0.0000305 / bit	P0133
			Oxygen Sensor Monitor Bank 1 Sensor 2			
02	01	0A	Rich to Lean Sensor Threshold Voltage	0.0 to 7.99 V	0.122 mv / bit	-
02	02	0A	Lean to Rich Sensor Threshold Voltage	0.0 to 7.99 V	0.122 mv / bit	-
02	07	0A	Minimum Sensor Voltage Achieved	0.0 to 7.99 V	0.122 mv / bit	P0137
02	08	0A	Maximum Sensor Voltage Achieved	0.0 to 7.99 V	0.122 mv / bit	P0138
02	81	0A	Sensor Voltage Achieved for below Commdaded Target Voltage Functional Check	0.0 to 7.99 V	0.122 mv / bit	P2270
02	82	0A	Sensor Voltage Achieved for above Commanded Target Voltage Functional Check	0.0 to 7.99 V	0.122 mv / bit	P2271
02	83	0A	Dynamic Response Performance - Decel Fuel Cut-Off	0.0 to 7.99 V	0.122 mv / bit	P2271
			Oxygen Sensor Monitor Bank 2 Sensor 1			
05	83	05	Dynamic Response Performance (Normalized)	0.0 to 1.999	0.0000305 / bit	P0153
			Oxygen Sensor Monitor Bank 2 Sensor 2			
06	01	0A	Rich to Lean Sensor Threshold Voltage	0.0 to 7.99 V	0.122 mv / bit	-
06	02	0A	Lean to Rich Sensor Threshold Voltage	0.0 to 7.99 V	0.122 mv / bit	-
06	07	0A	Minimum Sensor Voltage Achieved	0.0 to 7.99 V	0.122 mv / bit	P0157
06	08	0A	Maximum Sensor Voltage Achieved	0.0 to 7.99 V	0.122 mv / bit	P0158
02	81	0A	Sensor Voltage Achieved for below Commdaded Target Voltage Functional Check	0.0 to 7.99 V	0.122 mv / bit	P2272
02	82	0A	Sensor Voltage Achieved for above Commanded Target Voltage Functional Check	0.0 to 7.99 V	0.122 mv / bit	P2273
02	83	0A	Dynamic Response Performance - Decel Fuel Cut-Off	0.0 to 7.99 V	0.122 mv / bit	P2273

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			Catalyst Monitor			
21	84	06	Catalyst Test Bank 1 (normalized)	0.0 to 19.988	0.000305 / bit	P0420
22	84	06	Catalyst Test bank 2 (normalized)	0.0 to 19.988	0.000305 / bit	P0430
			EVAP Monitor (Cap Off)			
39	80	81	EVAP Tank Gross Leak	-32768 to +32767	1.0 / bit	P0455
			EVAP Monitor 0.020"	EWMA = Exponentially Weighted Moving Average EONV = Engine Off Natural Vacuum		
3C	80	05	EONV NV 0.020 Test - EWMA	0.0 to 1.999	0.0000305 / bit	P0442
			Purge Flow Monitor			
3D	88	81	Purge Valve Flow Test - Stuck Open / Leak	-32768 to +32767	1.0 / bit	P0496
3D	8C	81	Canister Vent Valve Test - Stuck Closed / Restricted	-32768 to +32767	1.0 / bit	P0446
			Oxygen Sensor Heater Monitor Bank 1 Sensor 1			
41	85	16	Heater Temperature	-40 to 6513.5 °C	0.1 °C per bit - 40°C	P0135
			Oxygen Sensor Heater Monitor Bank 1 Sensor 2			
42	81	14	Sensor Element Impedance	0 to 65535 Ohms	1 Ohm / bit	P0141
			Oxygen Sensor Heater Monitor Bank 2 Sensor 1			
45	85	16	Heater Temperature	-40 to 6513.5 °C	0.1 °C per bit - 40°C	P0155

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Oxygen Sensor Heater Monitor Bank 2 Sensor 2						
46	81	14	Sensor Element Impedance	0 to 65535 Ohms	1 Ohm / bit	P0161
Fuel System Monitor Bank 1						
81	80	AF	Additive Fuel (Offset) Correction	-327.68 to +327.67 %	0.01 % / bit	P2187, P2188
81	82	05	Multiplicative Fuel (Slope) Correction	0.0 to 1.999	0.0000305 / bit	P2177, P2178
Fuel System Monitor Bank 2						
82	80	AF	Additive Fuel (Offset) Correction	-327.68 to +327.67 %	0.01 % / bit	P2189, P2190
82	82	05	Multiplicative Fuel (Slope) Correction	0.0 to 1.999	0.0000305 / bit	P2179, P2180
Misfire Cylinder 1 data						
A2	0B	24	EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles	0 to 65535 counts	1 count / bit	P0301
A2	0C	24	Misfire counts for the last / current driving cycles	0 to 65535 counts	1 count / bit	P0301
Misfire Cylinder 2 data						
A3	0B	24	EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles	0 to 65535 counts	1 count / bit	P0302
A3	0C	24	Misfire counts for the last / current driving cycles	0 to 65535 counts	1 count / bit	P0302
Misfire Cylinder 3 data						
A4	0B	24	EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles	0 to 65535 counts	1 count / bit	P0303
A4	0C	24	Misfire counts for the last / current driving cycles	0 to 65535 counts	1 count / bit	P0303

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			Misfire Cylinder 4 data			
A5	0B	24	EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles	0 to 65535 counts	1 count / bit	P0304
A5	0C	24	Misfire counts for the last / current driving cycles	0 to 65535 counts	1 count / bit	P0304
			Misfire Cylinder 5 data			
A6	0B	24	EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles	0 to 65535 counts	1 count / bit	P0305
A6	0C	24	Misfire counts for the last / current driving cycles	0 to 65535 counts	1 count / bit	P0305
			Misfire Cylinder 6 data			
A7	0B	24	EWMA (Exponentially Weighted Moving Average) misfire counts for the last 10 driving cycles	0 to 65535 counts	1 count / bit	P0306
A7	0C	24	Misfire counts for the last / current driving cycles	0 to 65535 counts	1 count / bit	P0306