

Group	Block 1	Block 2	Block 3	Block 4
001	Engine speed (G28)	Coolant Temperature (G62)	Lamba Control	<p>Conditions For Basic Settings:</p> <p>xxxxxxx1 = Coolant temperature above 80.0 °C  xxxxx1x = Engine speed below 2000 rpm.  xxxxx1xx = Throttle valve closed  xxxx1xxx = Lambda control OK  xxx1xxxx = Idle switch closed  xx1xxxxx = A/C compressor off  x1xxxxxx = Cat. temp reached  1xxxxxxx = NO errors detected</p>
003	Engine Speed (G28)	Air Mass Flow	Throttle Valve Value range: 0.0...100.0 %	Ignition Angle
004	Engine Speed (G28)	Voltage Terminal 30 Set Point 12.0 - 15.0 V	Coolant Temperature (G62) Engine Outflow Value Range: -40.0 - +135.0 °C Setpoint: 80.0 to.110.0 °C	Air Intake Temperature (G42)
005	Engine Speed (G28)	Engine Load Value range: 0.0...100.0 % Note: % is inverted. 0% = 100%, 100% = 0%	Vehicle Speed (Kms/Hr)	Operating State Value range: Idle/Part load/Enrichment/Overrun/Fu ll load Setpoint: Idle

006	Engine Speed (G28)	Engine Load Value range: 0.0...100.0 % Note: % is inverted. 0% = 100%, 100% = 0%	Air Intake Temperature (G42) Value range: -48.0...+143.0 °C Value range: -30.0...+5.0 %	Altitude Correction
007	Engine Speed (G28)	Engine Load Note: The indicated % is the inverse of actual, ie 100% = 0%, 0% = 100%	Coolant Temperature (G62) Engine Outflow Value range: -40.5 to +135.0 °C Setpoint: 80.0 to 110.0 °C	Operating State Value Range (?) 1= Active, 0=Inactive? x0xxxxx = Knock protection x?0xxxxx = Homogeneous split operation xx0?xxxx = Stratified charge operation Cat. heating (double injection) xx0x?xxx = Stratified charge operation xx0xx?xx = Homogeneous stratified charge operation (double injection) xx0xxx?x = Homogeneous lean burn operation
008	Brake Switch Status: Inactive/Active	Voltage Terminal 30 Setpoint: 12.0 to 15.0 V	Intake Manifold Pressure (G71)	Unused Block
010	Engine Speed (G28)	Engine Load Note: The indicated % is the inverse of actual, ie 100% = 0%, 0% = 100%	Throttle Valve Value range: 0.0 to 100.0 %	Ignition Angle
011	Engine Speed	Coolant Temperature (G62) Engine Outflow Value range: -48.0...+143.0°C Setpoint (warm): 80.0...110.0	Air intake Temperature (G42) Value range: -48.0...+143.0 °C	Ignition angle

		°C		
014	Engine Speed (G28)	Engine Load Note: The indicated % is the inverse of actual, ie 100% = 0%, 0% = 100%	Total,misfire count Value range: 0...10 Setpoint: 0	Misfire Detection Value range: Activated/Disabled Setpoint: Activated
015	Cylinder 1 Misfire Count Value range: 0...5 Setpoint: 0	Cylinder 2,misfire Count Value range: 0...5 Setpoint: 0	Cylinder 3,misfire Count Value range: 0...5 Setpoint: 0	Misfire Detection Value range: Activated/Disabled Setpoint: Activated
016	Cylinder 4 Misfire count Value range: 0...5 Setpoint: 0	Misfire Detection Value range: Activated/Disabled Setpoint: Activated	Unused Block	Unused Block
018	Lower Engine Speed Threshold Setpoint: 0 rpm (no faults detected)	Upper engine Speed Threshold Setpoint: 0 rpm (no faults detected)	Lower Load Threshold Setpoint: 0.0 % (no faults detected)	Upper Load Threshold Setpoint: 0.0 % (no faults detected)
020	Ignition Angle Retardation Cylinder 1	Ignition Angle Retardation Cylinder 2	Ignition Angle Retardation Cylinder 3	Ignition Angle Retardation Cylinder 4
022	Engine Speed (G28)	Engine Load Note: The indicated % is the inverse of actual, ie 100% = 0%, 0% = 100%	Ignition Angle Retardation Cylinder 1	Ignition Angle Retardation Cylinder 2
023	Engine Speed (G28)	Engine Load Note: The indicated % is the inverse of actual, ie 100% = 0%, 0% = 100%	Ignition Angle Retardation Cylinder 3	Ignition Angle Retardation Cylinder 4

026	Knock sensor Voltage Cylinder 1	Knock sensor Voltage Cylinder 2	Knock sensor Voltage Cylinder 3	Knock sensor Voltage Cylinder 4
028	Engine Speed (G28) Setpoint (Basic Setting) approximately 2200 rpm	Engine Load Note: The indicated % is the inverse of actual, ie 100% = 0%, 0% = 100%	Coolant Temperature (G62) Engine Outflow Value range: -48.0...+143.0°C Setpoint (warm): 80.0...110.0 °C	Knock Sensor Test Result Value range: Test ON/Test OFF System OK/System Not OK
030	Lambda Sensor 1 Status (?) Value Range 1= Active, 0=Inactive xxx1 = Lambda Control Active xx1x = Lambda Sensor Ready x1xx = Lambda Sensor Heater On	Lambda Sensor 2 Status (?) Value Range 1= Active, 0=Inactive xxx1 = Lambda Control Active xx1x = Lambda Sensor Ready x1xx = Lambda Sensor Heater On	Unused Block	Unused Block
031	Lambda Sensor 1 Pre Cat Control Voltage (Actual)	Lambda Sensor 1 Control Voltage (Setpoint)	Unused Block	Unused Block
032	Lambda Sensor 1 Idle (sum) Value range: -25.0...+25.0 % Note: Learning Values	Lambda Sensor 1 Partial Load (product) Value range: -25.0...+25.0 %	Unused Block	Unused Block
033	Lambda Sensor 1 (Pre Cat) Value Range: -25.0...+25.0 %	Lambda Sensor 1 Pre Cat Voltage	Unused Block	Unused Block

034	Engine Speed (G28)	Cat Temperature	Lambda Sensor 1 Period Dynamic Value	Lambda Sensor 1 Ageing Test Status Value range: Test ON Test OFF B1-S1 OK B1-S1 Not OK
036	Lambda Sensor 2 (Post Ca) Voltage. Value Range: 0.000...1.000 V	Lambda Sensor 2 Readiness Value range: Test ON Test OFF B1-S2 OK B1-S2 Not OK	Unused Block	Unused Block
037	Engine Load Note: The indicated % is the inverse of actual, ie 100% = 0%, 0% = 100%	Lambda Sensor 2 Value Range: 0.000...1.000 V	Lambda Sensor 2 Delta Lamba	Lambda Sensor 2 Result Value range: Test ON Test OFF System OK System Not OK
041	Lambda Control Sensor 1 Heating Internal Resistance	Lambda Control Sensor 1 Heating Value range: Heater S1 ON Heater S1 OFF	Lambda Sensor 2 Heating Internal Resistance	Lambda Sensor 2 Heating Value range: Heater S2 ON Heater S2 OFF
043	Engine Load Note: The indicated % is the inverse of actual, ie 100% = 0%, 0% = 100%	Cat Temperature	Lambda Control Sensor 2 Voltage	Lambda Sensor 2 Ageing Test Status Value range: Test ON Test OFF B1-S2 OK B1-S2 Not OK

046	Engine Speed (G28)	Cat Temperature	Conversion	Conversion Test Value range: Test ON Test OFF Cat. B1 OK Cat. B1 Not OK Setpoint: Cat. B1 OK
050	Engine Speed (G28) (Actual)	Engine Speed (G28) (Setpoint)	Climate (A/C) Request Value range: ON OFF	A/C Compressor Value range: Compressor ON Compressor OFF
051	Engine Speed (G28) (Actual)	Engine Speed (G28) (Setpoint)	Gear Intervention (Auto Only) Value range: P/N = 0 Gear = 1...6 R = 7 Setpoint: 0	Voltage Terminal 30 Setpoint: 12.0...15.0 V
053	Engine Speed Control (Alternator Load) Engine Speed (G28) (Actual)	Engine Speed Control (Alternator Load) Engine Speed (G28) (Setpoint)	Voltage Terminal 30 Setpoint: 12.0...15.0 V	Generator Load Value range: 0.0...100.0 %
054	Engine Speed Control (Idle Speed Actuator Switch) Engine Speed (G28)	Engine Operating State Value Range: Idle Partload Enrichment Overrun Full load Setpoint: Idle	Accelerator Pedal Position Value range: 0.0...100.0 %	Throttle Valve Angle Value Range: 0.0...100.0 %

055	Engine Speed Control (Idle Stabilisation) Engine Speed (G28)	Idle Speed Controller	Idle Speed Controller (Learning Value)	Operating States xxxx1 = A/C Compressor ON xxx1x = Gear Engaged xx1xx = A/C Readiness ON x1xxx = Rear Screen Heater ON 1xxxx = Steering at Full Lock
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