	P2227 – Barometric Pressure Sensor "A" Circuit Range/Performance	rationality check	diff. barometric sensor vs. last driving cycle and diff. barometric sensor signal vs. boost pressure signal	> I 15.00 I> 9.00	[kPa] [kPa]	time after engine start engine speed throttle position	< 5.0 < 1000 < 8.01	[s] [rpm] [%]	3.0 [s] once / D(

Table continues below.

Component / System	Fault Code ECM 1 ECM 2	Monitor Strategy Description	Malfunction Criteria	Threshold Value		Secondary Parameters	Enable Condition	
	P2227 – Barometric Pressure Sensor "A" Circuit Range/Performance	rationality check	diff. barometric sensor vs. last driving cycle	> I 15.00 I	[kPa]	time after engine start	< 5.0	[s]
			and			engine speed	< 1000	[rpn
			diff. barometric sensor signal vs. boost pressure signal	< -9.00	[kPa]	throttle position	< 8.01	[%]
Barometric Pressure (BARO) Sensor	P2229 – Barometric Pressure Sensor "A" Circuit High	out of range high	IARO	> 115.00	[kPa]			
	P2228 – Barometric Pressure Sensor "A" Circuit Low	out of range low	IARO	< 45.00	[kPa]			
Barometric Pressure (BARO) Sensor	P2227 – Barometric Pressure Sensor "A" Circuit Range/Performance	cross check	diff. BARO to average value of all pressure sensors @ start	< -1.50	[kPa]	engine shut-off-time engine speed	> 8.0 < 450	[s] [rpn

	P2227 – Barometric Pressure Sensor "A" Circuit Range/Performance	cross check	diff. BARO to average value of all pressure sensors @ start	> 1.50	[kPa]	engine shut-off-time engine speed	> 8.0 < 450	[s] [rpn
Mass Air Flow (MAF) Sensor	P0100 – Mass Or Volume Air Flow Sensor "A" Circuit	internal check	MAF sensor signal	0	[s]	engine speed	> 20	[rpn
						battery voltage	> 10.70	[V]
Mass Air Flow (MAF) Sensor	P0103 – Mass Or Volume Air Flow Sensor "A" Circuit High	circuit high	MAF sensor signal	> 1065	[s]	engine speed	> 20	[rpn
						battery voltage	> 10.70	[V]
Mass Air Flow (MAF) Sensor	P0102 – Mass Or Volume Air Flow Sensor "A" Circuit Low	circuit low	MAF sensor signal	< 65	[s]	engine speed	> 20	[rpn
						battery voltage	> 10.70	[V]
Mass Air Flow (MAF) Sensor	P0101 – Mass or Volume Air Flow Sensor "A" Circuit Range/Performance	rationality check mass air flow	MAF vs. lower threshold model	< 5.00...480.00	[kg/h]	engine rotation	forwards	
	P0101 – Mass or Volume Air Flow Sensor "A" Circuit Range/Performance	rationality check mass air flow	MAF vs. upper threshold model	> 30.00...660.00	[kg/h]	engine rotation	forwards	
	P0101 – Mass or Volume Air Flow Sensor "A" Circuit	rationality check load	load calculation	> 24.01	[%]	engine speed	1065...5000	[rpn

	Range/Performance	survey						
			and			ECT downstream engine	> 60	[°C]
			fuel system (mult.)	< -24.01	[%]	IAT @ manifold MAF engine load ratio MAP to IARO evap purge valve lambda control	< 9050...2505...50 < 0.90 closed closed loop	[°C] [kg/ [%] [-]
	P0101 – Mass or Volume Air Flow Sensor "A" Circuit Range/Performance	rationality check load survey	load calculation	< -24.00	[%]	engine speed	1065...5000	[rpn
			and			ECT downstream engine	> 60	[°C]
			fuel system (mult.)	> 24.01	[%]	IAT @ manifold MAF engine load ratio MAP to BARO evap purge valve lambda control	< 9050...2505...50 < 0.90 closed closed loop	[°C] [kg/ [%] [-]
Turbocharger (TC) Boost Pressure Control	P0234 – Turbocharger/Supercharger "A" Overboost Condition	rationality check high	diff. set point vs. actual boost pressure	< -25.00...-100.00	[kPa]	general conditions		
						max. set point of boost pressure variation	not calibrated	[kP
						for time max. actual boost pressure variation	not calibrated not calibrated	[s] [kP
						for time boost pressure control deviation	not calibrated not calibrated	[s] [kP
						throttle position boost pressure	not calibrated > 90.00...130.00 not calibrated	[%] [kP [°C]