

P-code	Part or System	Mode	Run or condition	Engine can start?	Check engine alarm
P2617	Speed sensor (crank)	No connection / short circuit	no	no	alarm
P0344		Difference from speed sensor (cam)	no	no	alarm
P2614	Speed sensor (cam)	No connection / short circuit	reduced	yes	alarm
	Coolant temp	Under 0° C	1000 rpm	yes	no
P0118		Over 108° C	yes	yes	alarm
P0118		Over 110° C	reduced	yes	alarm
P0118		No connection / short circuit to Ground	reduced	yes	alarm
P0117		Short circuit to B+	reduced	yes	alarm
	Charge air temp	Over 110° C	reduced	yes	no
P0112		Over 125° C	reduced	yes	alarm
P0113		Under -20° C	reduced	yes	alarm
P0113		No connection / short circuit to Ground	reduced	yes	alarm
P0112		Short circuit to B+	reduced	yes	alarm
P0238	Boost pressure	4 bar (absolute)	reduced	yes	alarm
		4BY - over the 2.9 bar (absolute)	yes	yes	alarm
		6BY - over the 3 bar (absolute)	yes	yes	alarm
P0237		Under the 0.5 bar (absolute)	reduced	yes	alarm
P0236		Plausibility- check for Atmospheric Pressure Sensor failure	reduced	yes	alarm
P0237		No connection / short circuit to Ground	reduced	yes	alarm
P0238		Short circuit to B+	reduced	yes	alarm
	Fuel temperature	Over 90° C	reduced	yes	no
P0183		No connection / short circuit to Ground	reduced	yes	alarm
P0182		Short circuit to B+	reduced	yes	alarm
P0087	Fuel rail pressure	Short circuit to Ground	reduced	yes	alarm
P0088		No connection / short circuit B+	reduced	yes	alarm
P0090		Not connected	no	no	alarm
P0092		Short circuit to B+	no	no	alarm
P0091	Fuel rail pressure control valve	Short circuit to Ground	yes	yes	alarm
P0001	Metering unit	Not connected	reduced	yes	alarm
P0004		Short circuit to B+	reduced	yes	alarm
P0003		Short circuit to Ground	reduced	yes	alarm
P0230	Fuel feed pump	Not connected when engine runs	no	-	alarm
P0230		Not connected when engine stops	-	no	alarm
P0232		Short circuit to B+	no	no	alarm
P0231		Short circuit to Ground	no	no	alarm
U0001	CAN throttle signal	No signal	idle	yes	alarm
P0122 / P0222	Throttle signal	Both signals missing / short circuit to Ground	1600	yes	alarm
P0123 / P0223		Both signal are short circuit to B+	1600	yes	alarm
P0122		Signal 1 is missing / short circuit to Ground	reduced	yes	alarm
P0123		Signal 1 short circuit to B+	reduced	yes	alarm
P0222		Signal 2 is missing / short circuit to Ground	reduced	yes	alarm
P0223		Signal 2 short circuit to B+	reduced	yes	alarm
	Voltage	Over 18 V	no	no	
		Below 4.8V	reduced	yes	
	Alternator	No generation			

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P0201	Injector no.1	Open circuit / short circuit to Ground	reduced	yes	alarm
P0261		Short circuit to B+	reduced	yes	alarm
P0202	Injector no.2	Open circuit / short circuit to Ground	reduced	yes	alarm
P0264		Short circuit to B+	reduced	yes	alarm
P0203	Injector no.3	Open circuit / short circuit to Ground	reduced	yes	alarm
P0267		Short circuit to B+	reduced	yes	alarm
P0204	Injector no.4	Open circuit / short circuit to Ground	reduced	yes	alarm
P0270		Short circuit to B+	reduced	yes	alarm
P0205	Injector no.5	Open circuit / short circuit to Ground	reduced	yes	alarm
P0273		Short circuit to B+	reduced	yes	alarm
P0206	Injector no.6	Open circuit / short circuit to Ground	reduced	yes	alarm
P0276		Short circuit to B+	reduced	yes	alarm
P2049	4BY - injector bank 1 6BY - injector bank 1	Short circuit on High Side to Ground or B+ Short circuit on High Side to Ground or B+	no reduced	no no	alarm
P2052	4BY - injector bank 2 6BY - injector bank 2	Short circuit on High Side to Ground or B+ Short circuit on High Side to Ground or B+	reduced reduced	yes yes	alarm
P0607	Injector chip fault		no	no	alarm
P0650	Check engine lamp	Not connected, short circuit	yes	yes	alarm
P0671	Glow plug 1	Not connected, short circuit	yes	yes	alarm
P0672	Glow plug 2	Not connected, short circuit	yes	yes	alarm
P0673	Glow plug 3	Not connected, short circuit	yes	yes	alarm
P0674	Glow plug 4	Not connected, short circuit	yes	yes	alarm
P0675	Glow plug 5	Not connected, short circuit	yes	yes	alarm
P0676	Glow plug 6	Not connected, short circuit	yes	yes	alarm
P0087	Fuel rail pressure governor deviation	Fuel rail pressure governor deviation exceeds / falls below a limit	reduced or shut off	depends on fault	alarm
P0088	Fuel rail pressure governor deviation	Fuel rail pressure governor deviation exceeds / falls below a limit	reduced or shut off	depends on fault	alarm
P0089	Fuel rail pressure governor deviation	Fuel rail pressure governor deviation exceeds / falls below a limit	yes	yes	alarm
P0090	Fuel rail pressure governor deviation	Fuel rail pressure governor deviation exceeds / falls below a limit	reduced	yes	alarm
P0689 P0690	Main relay	Power relay sense short circuit low Power relay sense short circuit high	no	no	alarm
P0602	Control Module Programming Error	Overvoltage / undervoltage	no	no	alarm
P0602	Shut off path	Control module programming error	no	no	alarm
P0642 P0643	Sensor supply monitoring 1	Short circuit	reduced	yes	alarm
P0652	Sensor supply monitoring 2	Short circuit	reduced	yes	alarm
P0653	Sensor supply monitoring 3	Short circuit	reduced	yes	alarm
P0562 P0563	System voltage low System voltage high		yes	yes	alarm
P2227	Atmospheric pressure	Plausibility- check for Boost Pressure Sensor failure	yes	yes	alarm
P2228 P2229		Short circuit low Short circuit high	yes	yes	alarm
P0426	Immobilizer	Manipulation / Tamper error	no	no	alarm