

INFORMATION : FAULT CODE P0238 (ENGINE ECU)

SIEMENS ASSEMBLY AND DIESEL TURBO DW10BTED4 OR MOUNTING BOSCH AND DV6ATED4 TURBO DIESEL OR MOUNTING BOSCH AND DIESEL TURBO DV6TED4 WITHOUT FAP OR MOUNTING BOSCH AND DIESEL TURBO DV6TED4 FAP OR MOUNTING DELPHI AND DW10BTED4 TURBO DIESEL WITHOUT FAP OR MOUNTING BOSCH AND EP6DT INJECTION OR SIEMENS ASSEMBLY AND DW10BTED4 TURBO DIESEL WITHOUT FAP OR MOUNTING DELPHI AND DIESEL TURBO DW10BTED4 OR MOUNTING BOSCH AND DIESEL TURBO DV6TED4 90HP FAP OR MOUNTING BOSCH AND EP6DTS INJECTION

MOUNTING DELPHI AND DIESEL TURBO DW10BTED4 OR MOUNTING DELPHI AND DW10BTED4 TURBO DIESEL WITHOUT FAP

Engine ECU DELPHI DCM3.4	
Fault code	P0238
After sales description of the fault code	Turbocharger pressure signal : Short circuit to positive
Description of the diagnostics	Turbo air pressure not plausible The voltage of the signal is higher than 4,8 V for 300 ms
Conditions of activation of the diagnostics	Consult the associated contexts for the Pcode forwarding conditions
Conditions of disappearance of the fault	Switching on of the ignition
Down-grade modes if fault present	Deactivation speed limiter until the next time the ignition is switched on
	Deactivation cruise control until the next time the ignition is switched on
	Cutting of the EGR valve
	Generic mode for reduced flow
	Deactivation of the regulation of the turbocharging (Piloted turbocharging mode)
Switching on of the warning light and/or warning message	Warning lamp MIL
Main customer complaints likely	Noise
	Diesel fuel consumption a bit higher
	Lack of power
Suspect areas	Turbocharging pressure sensor
	Turbocharger position copy sensor
	Vacuum problem
	Variable geometry of the turbocharger jammed in the "maximum turbocharging" position
	Faulty turbocharger

MOUNTING BOSCH AND DV6ATED4 TURBO DIESEL OR MOUNTING BOSCH AND DIESEL TURBO DV6TED4 FAP OR MOUNTING BOSCH AND DIESEL TURBO DV6TED4 WITHOUT FAP OR MOUNTING BOSCH AND DIESEL TURBO DV6TED4 90HP FAP

Engine ECU BOSCH EDC16C34	
Fault code	P0238
After sales description of the fault code	Turbocharger pressure signal : Short circuit to positive
Description of the diagnostics	Short circuit to positive or open circuit
	Value too high (Above 4.8 V)For 1,2 second
Conditions of activation of the diagnostics	Consult the associated contexts for the Pcode forwarding conditions
Conditions of disappearance of the fault	Switching on of the ignition
Down-grade modes if fault present	Default value for the air flow as a function of the engine speed and of the flow injected
	Inhibiting of the diagnostics and air flow sensor plausibility
	Cut-off : EGR butterfly (turbo air cooler), EGR valve and bypass butterfly (inlet air heater) in all functioning modes
Switching on of the warning light and/or warning message	Warning lamp MIL
Main customer complaints likely	Noise
	Diesel fuel consumption a bit higher
	Lack of power
Suspect areas	Turbocharging pressure sensor
	Turbocharger position copy sensor
	Vacuum problem
	Variable geometry of the turbocharger jammed in the "maximum turbocharging" position
	Faulty turbocharger

MOUNTING BOSCH AND EP6DTS INJECTION OR MOUNTING BOSCH AND EP6DT INJECTION

Engine ECU BOSCH MED17.4	
Fault code	P0238
After sales description of the fault code	Turbocharging pressure regulation fault : Short circuit to positive ; Open circuit
Description of the diagnostics	Short circuit to positive on the turbo pressure sensor
	Voltage of the turbo pressure sensor higher than 4,9 V or signal from the inlet air temperature sensor greater than 3,1 V for more than 0,3 s
Conditions of activation of the diagnostics	Engine management ECU in main triggering phase
Conditions of disappearance of the fault	The following conditions have to be met - Voltage of the turbo pressure sensor between 0,15 V and 4,9 V - Voltage of the inlet air temperature sensor lower than 3,1 V for more than 0,3 s
Down-grade modes if fault present	Deactivation of the turbocharger regulation
	Dump valve forced shut
	A serious reduction of load is applied in order to imitate the behaviour of a normally-aspirated engine
	The "overboost" function is deactivated
Switching on of the warning light and/or warning message	Warning lamp MIL
Main customer complaints likely	Lack of power
	Flat spot on acceleration
	Emissions outside the norms
Suspect areas	Turbocharging pressure sensor
	Electrical harness

SIEMENS ASSEMBLY AND DIESEL TURBO DW10BTED4 OR SIEMENS ASSEMBLY AND DW10BTED4 TURBO DIESEL WITHOUT FAP

Engine ECU SIEMENS SID 803	
Fault code	P0238
After sales description of the fault code	Turbocharger pressure signal : Short circuit to positive
Description of the diagnostics	Voltage of turbo air pressure signal higher than 4,80 V (Turbo pressure greater than 2530 mbar) ; For 2,5 s or 125 engine revs
Conditions of activation of the diagnostics	Consult the associated contexts for the Pcode forwarding conditions
Conditions of disappearance of the fault	Switching on of the ignition
Down-grade modes if fault present	Deactivation speed limiter until the next time the ignition is switched on
	Deactivation cruise control until the next time the ignition is switched on
	Cutting of the EGR valve : Fuel flow limitation
	Deactivation of the regulation of the turbocharging
Switching on of the warning light and/or warning message	Warning lamp MIL
Main customer complaints likely	Lack of power
	Slightly higher fuel consumption
	Noise
Suspect areas	Turbocharging pressure sensor
	Turbocharger position copy sensor
	Turbocharger blocked in position : Maximum turbo
	turbocharger : Damaged
	Turbocharging pressure sensor