

OBD and fuel supply

Finding and remedying faults



Code	P0005/P0006/P0007	P0087	P0172	P0441	P0462/P0463
Fault	Fuel cut-off solenoid valve – open circuit; signal too high/too low <ul style="list-style-type: none"> • Fuel cut-off solenoid valve defective • Plug-in connection defective, cable interrupted 	Fuel rail/system pressure too low <ul style="list-style-type: none"> • Fuel pump/fuel pressure regulator defective • Fuel supply line/fuel filter blocked • Filter on intake side of pump (in case of retrofitting/replacement) 	Mixture too rich <ul style="list-style-type: none"> • Activated carbon filter solenoid valve stuck (permanently open): Fuel-enriched air from the activated carbon filter is drawn into the intake air system • Diaphragm of the pneumatic fuel pressure regulator leaking: Fuel is drawn into the intake air system through the vacuum line • Stuck/carbonised EGR valve is always open 	Fuel vapour collecting system – incorrect flow rate <ul style="list-style-type: none"> • Leakage in activated carbon filter system (ACF system), e.g. hose connections leaking • ACF solenoid valve stuck (permanently open) 	Fuel level sensor – input signal too low/too high <ul style="list-style-type: none"> • Sender unit shows that fuel level is too low • Engine shuts off automatically or does not start
Next steps/ Possible remedies	<ul style="list-style-type: none"> • Measure power supply/wiring harness, replace if necessary • Check fuel cut-off solenoid valve, replace if necessary 	<ul style="list-style-type: none"> • Check fuel pump/fuel pressure regulator, replace if necessary • Check fuel supply line/fuel filter, replace if necessary • Remove filter that may be fitted on the intake side of the pump 	<ul style="list-style-type: none"> • Check ACF solenoid valve, replace if necessary • Check fuel pressure regulator, replace if necessary • Check EGR valve: <ul style="list-style-type: none"> - If the EGR valve is always open, exhaust gas is recirculated permanently - If the EGR valve is stuck, replace and find out the causes of the sticking 	<ul style="list-style-type: none"> • Examine ACF system for leakage, e.g. by checking hose connections, replace if necessary • Check ACF solenoid valve, replace if necessary 	<ul style="list-style-type: none"> • Check sender unit or module with sender unit, replace if necessary

Further details on this subject can be found in our brochure "Service Tips & Info – Emission control and OBD".
Further information can be obtained directly from your local Motorservice partner or at www.ms-motorservice.com

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