



- PIERBURG PRODUCTS**

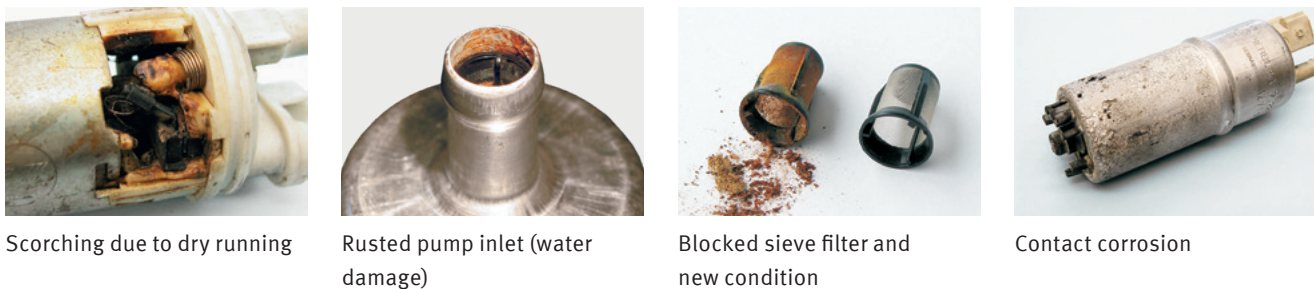
 - 01 Fuel delivery module (in-tank)
 - 02 Fuel level sensor
 - 03 Active carbon filter shut-off valve
 - 04 Activated carbon filter regeneration valve
 - 05 Fuel pump (in-line)
 - 06 Fuel filter (Kolbenschmidt)
 - 07 Fuel check valve
 - 08 Tandem pump, fuel/vacuum
 - 09 Fuel pressure regulators
- ON-BOARD DIAGNOSTICS**

 - 10 Engine control unit
 - 11 Malfunction indicator lamp (MIL)
 - 12 Diagnostic plug
 - 13 OBD data scan tool

OBD SYSTEM

FUEL SUPPLY

FROM PRACTICAL USE



FINDING AND REMEDYING FAULTS					
DIAGNOSTIC TROUBLE CODE	P0005/P0006/P0007	P0087	P0172	P0441	P0462/P0463
DISPLAYED FAULTS	Fuel cut-off solenoid valve – open circuit; signal too high/too low <ul style="list-style-type: none">Fuel cut-off solenoid valve defectivePlug-in connection defective, cable interrupted	Fuel rail/system pressure too low <ul style="list-style-type: none">Fuel pump/fuel pressure regulator defectiveFuel supply line/fuel filter blockedFilter 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 systemDiaphragm of the pneumatic fuel pressure regulator leaking: Fuel is drawn into the intake air system through the vacuum lineStuck/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 leakingACF 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 lowEngine shuts off automatically or does not start
NEXT STEPS/POSSIBLE REMEDIES	<ul style="list-style-type: none">Measure power supply/wiring harness, replace if necessaryCheck fuel cut-off solenoid valve, replace if necessary	<ul style="list-style-type: none">Check fuel pump/fuel pressure regulator, replace if necessaryCheck fuel supply line/fuel filter, replace if necessaryRemove filter that may be fitted on the intake side of the pump	<ul style="list-style-type: none">Check ACF solenoid valve, replace if necessaryCheck fuel pressure regulator, replace if necessaryCheck EGR valve:<ul style="list-style-type: none">If the EGR valve is always open, exhaust gas is recirculated permanentlyIf 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 necessaryCheck ACF solenoid valve, replace if necessary	<ul style="list-style-type: none">Check sender unit or module with sender unit, replace if necessary

