



TROUBLESHOOTING PROCEDURE FOR DTC

Diagnostic trouble code No. P1181		FUEL PRESSURE MONITORING-MALFUNCTION	
Related items (according to CC code)	C005	Maximum pressure exceeded	• Rail pressure sensor defective • Pressure regulator valve defective • Injectors defective • High pressure pump defective
	C008	PRV sticking	
	C006	Minimum pressure at engine speed too low	• Rail pressure sensor defective • Pressure regulator valve defective • Injectors defective • High pressure pump defective • Leakage
	C009	Leakage of Fuel	
	C010	Governor deviation at engine speed too high	

Step	Inspection
1	Actual value for evaluation : conform actual value and setpoint value of rail pressure.
2	Any additional faults stored are to be rectified first. Cancel fault memory and then perform test drive. Start by checking above-mentioned components if fault is again stored.
3	Check pipes, rail and connections for leakage (visual inspection).
4	Check low pressure circuit : - Possible causes of trouble : Leakage, fuel filter clogged, gear pump (suction pump) in HP failed. 1) Connect up pressure gauge between fuel filter and high pressure pump (Engine: cranking or start). CASE A: Pressure < 0.5 bar - Check whether fuel filter is clogged and leakage in fuel line or gear pump failed - If malfunction is detected, replace. CASE B: Pressure > 1.0 bar - Check whether pressure in low pressure line is extremely high. - Check low pressure line.
5	Check high pressure circuit : - Possible causes of trouble : Leakage, RPS, MPROP, injectors, high pressure pump 1) Visually inspect for leakage and check all connectors. 2) Compare rail pressure setpoint and actual rail pressure. 3) Crank and start engine. CASE A: the rail pressure actual value is greater than setpoint value by 250-350var - Check MPROP mechanical failure.



- Check electrical connector of the MPROP whether it is short circuit to ground
- CASE B: The rail pressure setpoint value is greater than actual value by 250-350bar
- Check leakage in the rail: pull out all the fuel tubes (injector return & hose to pump) and check whether the fuel flow out through the limiting valve on the rail, if leakage detected and limiting valve failure, replace limiting valve
 - Check whether prefeed pressure is sufficient and high pressure pump.