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Engine control unit D12, E-ECU, description of function

Control unit sensors

The unit injectors in the D12 engine are controlled entirely electronically regarding amount of injected fuel and injection timing. The system is called EMS (Engine Management System).

The following is a brief summary of the parts on the engine. There are a number of other parts that affect the system, for example, the throttle pedal sensor.

The central part of the system, the control unit, A, is positioned on the left side of the engine. All cable connectors for the sensors of the engine are of the DIN-standard and are connected in a so called cable terminal, B.

The cable terminal, which is positioned above the control unit, is made of plastic and is in three parts. The inner part nearest the engine contains all cables and connectors that concern the engine. On the outside of these there is a partition (C) and an outer cover (D). On the inside of the outer cover there is room for other cable harnesses that belong to the machine.

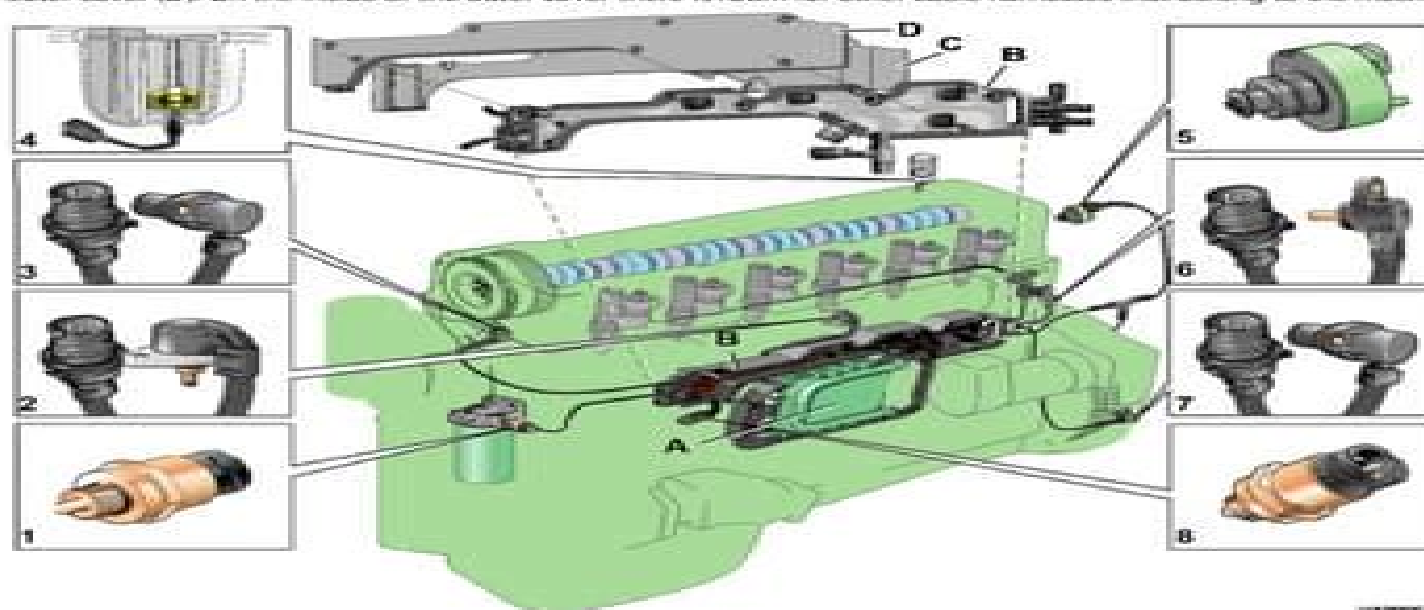


Figure 1
D12C, Engine sensors (some have dual functions)

1. Fuel pressure. Positioned on the fuel filter bracket. Senses feed pressure after the filter, SE2301 (PID 94).
2. Charge air pressure and charge air temperature. Combined sensor positioned on the inlet manifold, SE2507 (PID

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