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

### Control unit system

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.

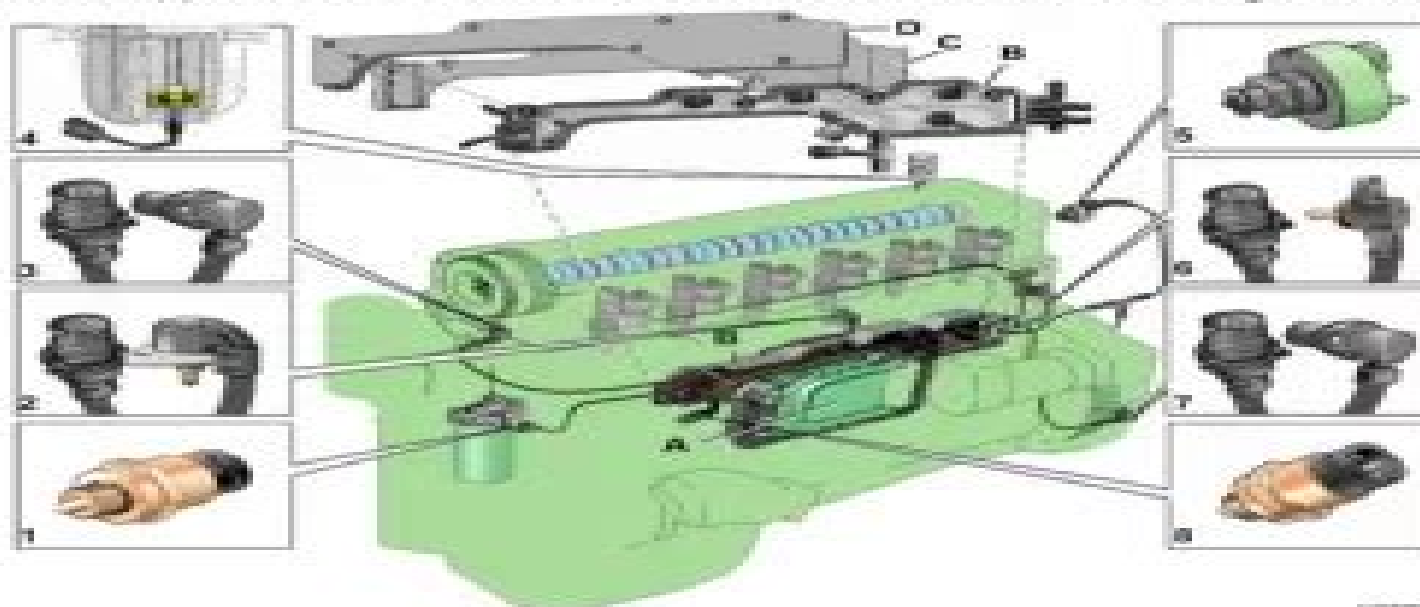


Figure 2  
D12C, Engine sensors (some have dual functions)

1. Fuel pressure. Positioned on the fuel filter bracket. Sensor feed pinboxed after the filter, 963301 (P50 94).
2. Charge air pressure and charge air temperature. Combined sensor positioned on the inlet manifold, 562507 (P50

# Volvo 225e Service Manual

**John S. Mead**



## **Volvo 225e Service Manual:**

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**Service Manual Repairs and Maintenance** Volvo,      *Volvo Service Manual* ,      **Service Manual** ,1975      *Volvo Service Manual* ,19??      *Volvo S40 & V40 Service and Repair Manual* Mark Coombs,Spencer Drayton,2005-01-01 S40 Saloon V40 Estate inc T4 special limited editions Does NOT cover new S40 V50 range introduced Mar 2004 or bi fuel models Petrol 1 6 litre 1588cc 1 8 litre 1731 1783 1834cc 1 9 litre 1855cc 2 0 litre 1948cc inc GDI Turbo      Volvo Service ,1985\*

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