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Document Title: <b>Engine control unit D12, E-ECU, description of function</b>	Function Group: <b>200</b>	Information Type: <b>Service Information</b>	Date: <b>2014/6/13</b>
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## Engine control unit D12, E-ECU, description of function

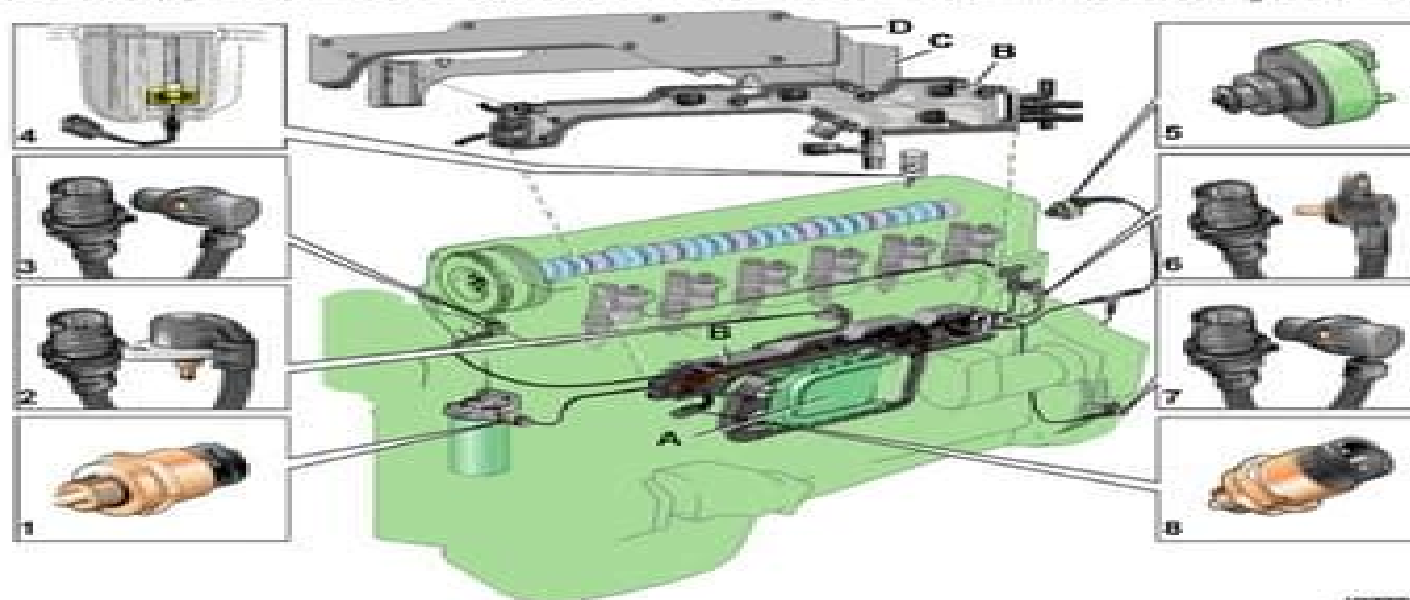
### Control unit sensors

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.



V13000118

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D12C. Engine sensors (some have dual functions)

1. Fuel pressure. Positioned on the fuel filter bracket. Series 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

# Volvo D12 Service Manual

**LP Steffe**



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### **Table of Contents Volvo D12 Service Manual**

1. Understanding the eBook Volvo D12 Service Manual
  - The Rise of Digital Reading Volvo D12 Service Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Volvo D12 Service Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Volvo D12 Service Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Volvo D12 Service Manual
  - Personalized Recommendations
  - Volvo D12 Service Manual User Reviews and Ratings
  - Volvo D12 Service Manual and Bestseller Lists

5. Accessing Volvo D12 Service Manual Free and Paid eBooks
  - Volvo D12 Service Manual Public Domain eBooks
  - Volvo D12 Service Manual eBook Subscription Services
  - Volvo D12 Service Manual Budget-Friendly Options
6. Navigating Volvo D12 Service Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Volvo D12 Service Manual Compatibility with Devices
  - Volvo D12 Service Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Volvo D12 Service Manual
  - Highlighting and Note-Taking Volvo D12 Service Manual
  - Interactive Elements Volvo D12 Service Manual
8. Staying Engaged with Volvo D12 Service Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Volvo D12 Service Manual
9. Balancing eBooks and Physical Books Volvo D12 Service Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Volvo D12 Service Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Volvo D12 Service Manual
  - Setting Reading Goals Volvo D12 Service Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Volvo D12 Service Manual
  - Fact-Checking eBook Content of Volvo D12 Service Manual
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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