

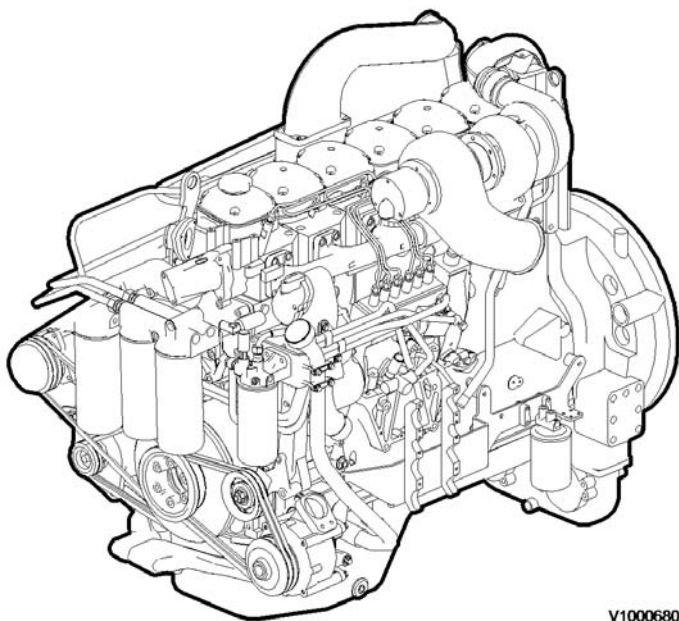
Document Title: Engine, description	Function Group: 200	Information Type: Service Information	Date: 2015/2/16
Profile: ART, A25D 4x4 [GB]			

Engine, description

Engine D10, description

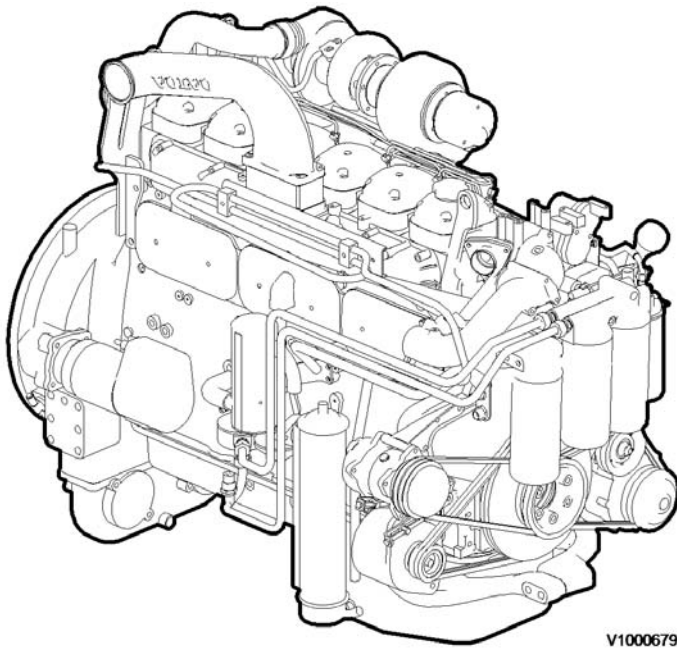
Machine	Place of manufacture, serial number		
	EU	US	Brazil
A25D	11001–12999	61001–61118	71001–71999
A30D	10001–11999	60001–60093	70001–72999

The engine is a straight six cylinder, direct-injected diesel with 9.6 litres cylinder capacity, turbo, intercooler and electronically controlled fuel injection. The valve mechanism receives its movement from the camshaft via valve rods and rocker arms. The injection pump is equipped with a smoke limiter for torque limitation of the engine. The injectors are mounted in copper sleeves that are pressed into the cylinder head and directly surrounded by the coolant. The engine also has an electronic control unit (E-ECU), located on the right radiator bow.



V1000680

Figure 1
Engine D10B, left side



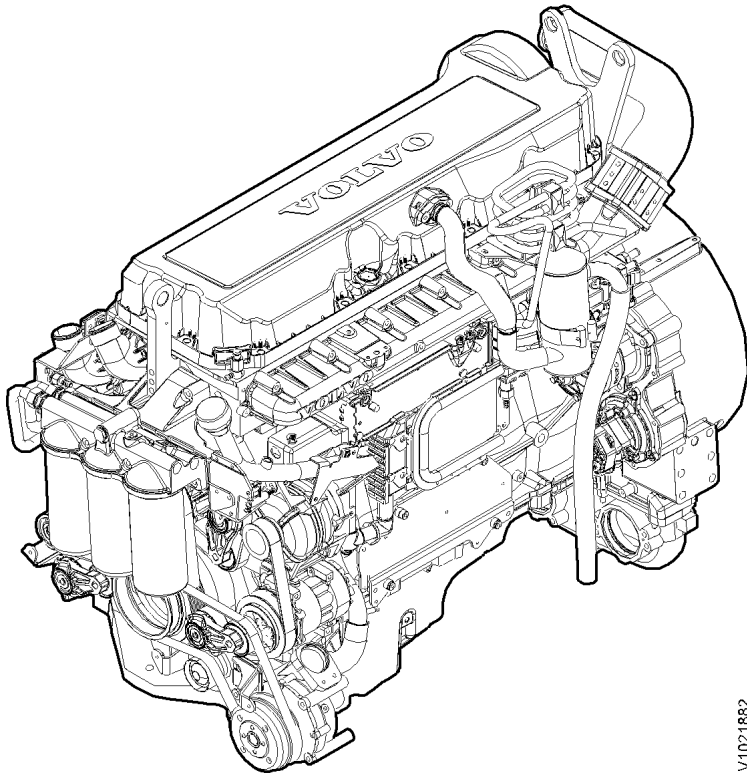
V1000679

Figure 2
Engine D10B, right side

Engine D9, description

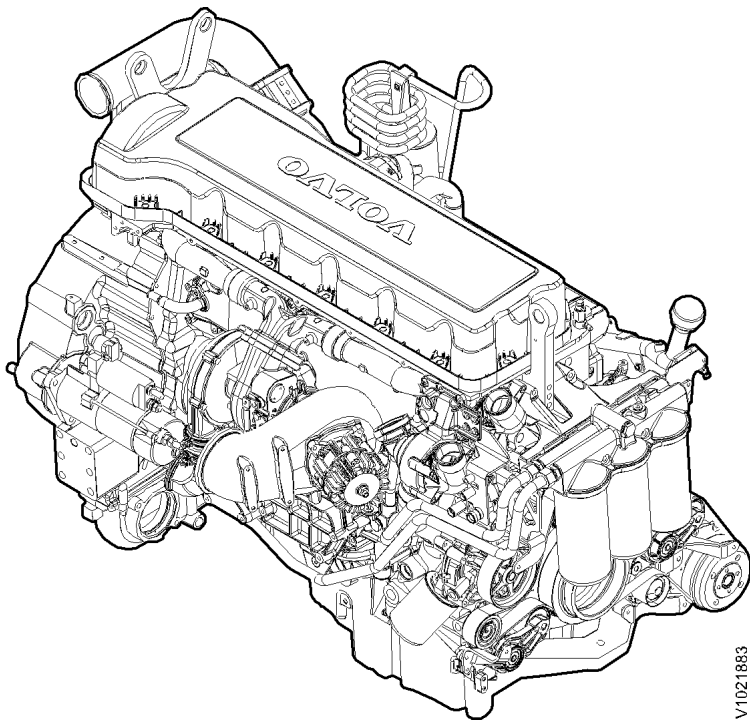
Machine	Place of manufacture, serial number		
	EU	US	Brazil
A25D	13001–	–	72000–
A30D	12001–	–	73000–

Engine D9 is a straight six cylinder, direct-injected diesel with 9.4 litres cylinder capacity, turbo, intercooler and electronically controlled fuel injection. The valve mechanism receives its movement from the camshaft via valve rods and rocker arms. The engine has an overhead camshaft and unit injectors, which are centred above the pistons and controlled by the camshaft and a control unit (E-ECU). The control unit is located on the engine's left side.



V1021882

Figure 3
V1021882



V1021883

Figure 4
V1021883

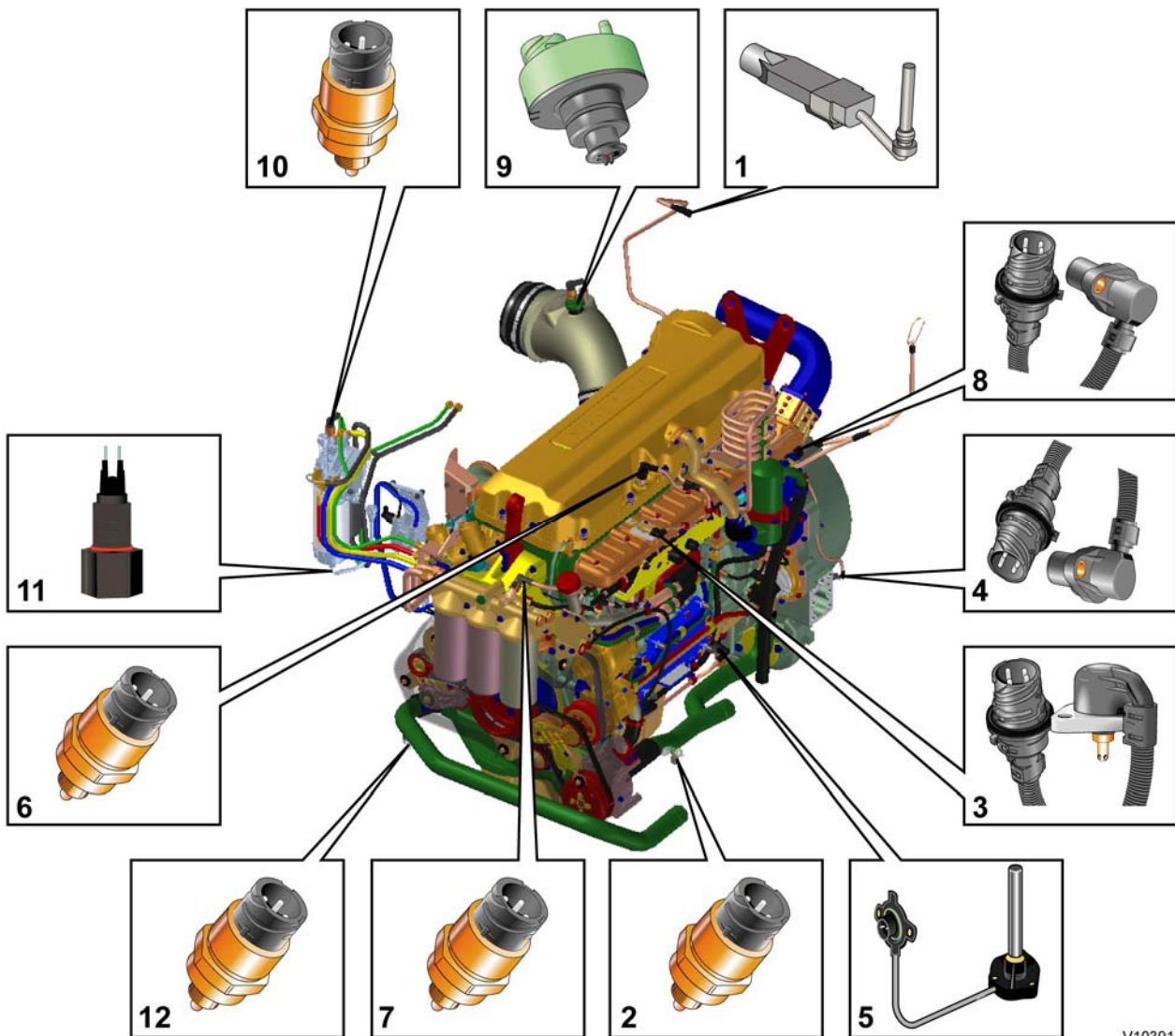
Document Title: Engine, sensor positions	Function Group: 200	Information Type: Service Information	Date: 2015/2/16
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Engine, sensor positions

Control unit sensors

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 is positioned on the left side of the engine. All cable connectors for the engine's sensors are of DIN-standard and are connected in a so-called cable box.



V1039126

Figure 1
Engine D9, sensors (some have double functions)

1. Sensor for coolant level, SE2603
2. Sensor for coolant temperature, cooling circuit converter, SE2601
3. Sensor for charge air pressure/temperature, SE2507/SE2508
4. Tachometer sensor, flywheel, SE2701

5. Sensor for oil level/temperature, SE2205/SE2202
6. Sensor for crankcase pressure, SE2509
7. Sensor for oil pressure, SE2203
8. Camshaft sensor, engine position, SE2703
9. Sensor for air pressure/temperature, SE2501/SE2502
10. Sensor for feed pressure, fuel, SE2301
11. Sensor for water indicator, SE2302
12. Sensor for coolant temperature, cooling circuit engine/retarder, SE2602

Document Title: Engine, identification	Function Group: 200	Information Type: Service Information	Date: 2015/2/16
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Engine, identification

Identification plate 1

Engine designation, serial number, part number and assembly plant are stamped in one field on the engine block's left front edge.

Identification plate 2

A decal with the software's ID-number, the engine's serial number and assembly plant is located on the valve cover to ensure installation of correct ECU on the engine in production. On the back of the ECU, there is a decal indicating its hardware number. The E-ECU is located on the engine's left side.

Assembly plants:

A = Skövde, Sweden

E = Curitiba, Brazil

F = Flen, Sweden

L = Lyon, France

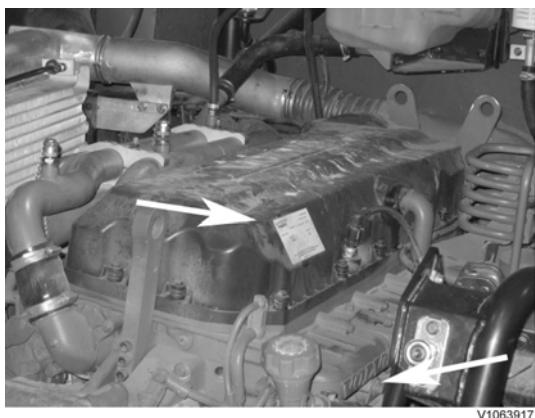


Figure 1

Identification plate 3

The certification decal is located on the valve cover as well as on the left side, at the back of the machine's front frame inside of the steps.



Document Title: E-ECU, MID 128, changing pre-programmed ECU	Function Group: 200	Information Type: Service Information	Date: 2015/2/16
Profile: ART, A25D 4x4 [GB]			

[Go back to Index Page](#)

E-ECU, MID 128, changing pre-programmed ECU

Op nbr 200-070

Applies to machine equipped with engine D10, with serial number according to the table.

Machine	Place of manufacture, serial number		
	EU	US	Brazil
A25D	11001–12077	61001–61118	–
A30D	10001–10682	60001–60093	70001–72999

1. Connect VCADS Pro computer and perform 17030-3 Parameter, programming.
 - Use the function – Save all read parameters to job card.
2. Perform [200 E-ECU, MID 128, changing non-programmed ECU](#) step 2–15.
3. Connect VCADS Pro computer and perform 17030-3 Parameter, programming.
 - Program earlier read-out parameters according to the job card.

Document Title: E-ECU, MID 128, changing pre-programmed ECU	Function Group: 200	Information Type: Service Information	Date: 2015/2/16
Profile: ART, A25D 4x4 [GB]			

[Go back to Index Page](#)

E-ECU, MID 128, changing pre-programmed ECU

Op nbr 200-070

Applies to machine equipped with engine D9A, with serial number according to the table.

Machine	Place of manufacture, serial number		
	EU	US	Brazil
A25D	13001–	–	–
A30D	12001–	–	73000–

1. Connect VCADS Pro computer and perform 17030-3 Parameter, programming.
 - Use the function – Save all read parameters to job card.
2. Perform [200 E-ECU, MID 128, changing non-programmed ECU](#) step 2–17.
3. Connect VCADS Pro computer and perform 17030-3 Parameter, programming.
 - Program earlier read-out parameters according to the job card.

Document Title: E-ECU, MID 128, changing pre-programmed ECU	Function Group: 200	Information Type: Service Information	Date: 2015/2/16
Profile: ART, A25D 4x4 [GB]			

[Go back to Index Page](#)

E-ECU, MID 128, changing pre-programmed ECU

Op nbr 200-070

This operation also includes required tools and times for applicable parts of the following operations:

- [200 E-ECU, MID 128, changing non-programmed ECU](#)
 1. Connect VCADS Pro computer and perform 17030-3 Parameter, programming.
 - Use the function: Save all read parameters to job card.
 2. Perform [200 E-ECU, MID 128, changing non-programmed ECU](#) step 2–14.
 3. Connect VCADS Pro computer and perform 17030-3 Parameter, programming.
 - Program earlier read-out parameters according to the job card.

Document Title: E-ECU, MID 128, changing non-programmed ECU	Function Group: 200	Information Type: Service Information	Date: 2015/2/16
Profile: ART, A25D 4x4 [GB]			

[Go back to Index Page](#)

E-ECU, MID 128, changing non-programmed ECU

Op nbr 200-068

Applies to machine equipped with engine D10, with serial number according to the table.

Machine	Place of manufacture, serial number		
	EU	US	Brazil
A25D	11001–12077	61001–61118	–
A30D	10001–10682	60001–60093	70001–72999

1. Connect VCADS Pro computer and perform 28423-3 MID 128 ECU, programming.
 - When instructed to connect the new control unit, perform steps 2–15.

CAUTION

Always follow instructions according to Electrical system, work instructions, electronic components

[3001 Electrical system, special instructions for servicing, electronic components](#)

Removing E-ECU

CAUTION

Always follow instructions according to Electrical system, work instructions, electronic components

2. Place the machine in service position.

NOTICE

Turn off the electric power with the battery disconnect switch before starting any work. Also remove the fuse for respective component.

3. Open the engine hood.
4. Press in the catch and unplug the connector EA/EB from the E-ECU.



Figure 1

5. Remove the screws (8 screws) that hold the cooling coil on the E-ECU.

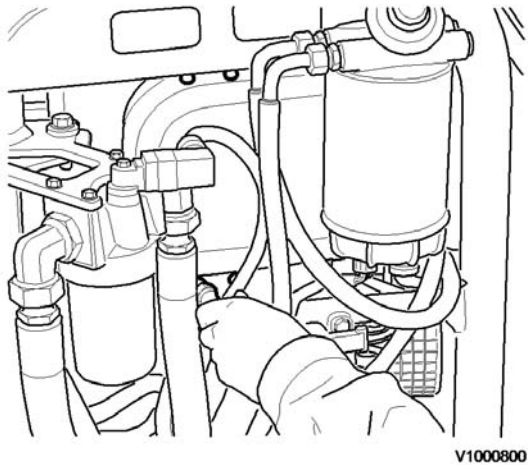


Figure 2

6. Remove two of the four bolts that hold the E-ECU against the console.

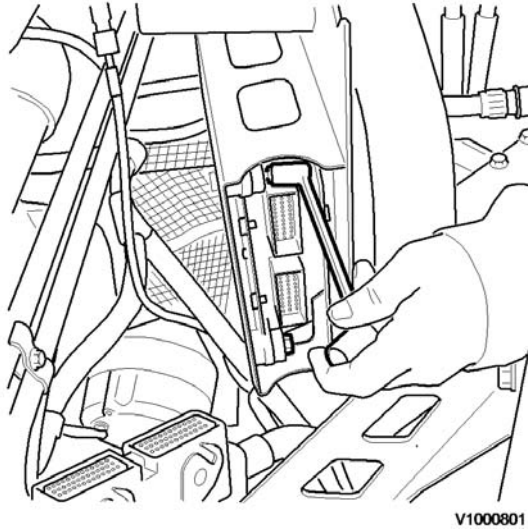


Figure 3

7. Hold the E-ECU and remove the two remaining bolts.

Thank you very much for reading.

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System, Setting

Instructions, Functional

Description, Electrical

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