

Document Title: Engine, description	Function Group: 200	Information Type: Service Information	Date: 2014/8/27
Profile: ART. A35E, A35E FS (GB)			

Engine, description

D12D is a straight six-cylinder, four-stroke, turbocharged diesel engine with direct injection and intercooler, as well as wet, replaceable cylinder liners. The engine is equipped to meet governing legislation according to Tier 3/stage IIIA for exhaust emissions.

D12D uses V-ACT (Volvo Advanced Combustion Technology) and gas split injection, optimized air handling, and turbocharger with wastegate. Electronically controlled EGR (Internal Exhaust Gas Recirculation) lowers the content of NOx and reduces emissions without aftertreatment of exhausts. All electronic functions in the engine are controlled by Volvo's engine management system EMS2.

Cylinders are numbered in sequence beginning farthest from at the flywheel. Firing order: 1-5-3-6-2-4. The engine's rotational direction is counter-clockwise seen from the flywheel.

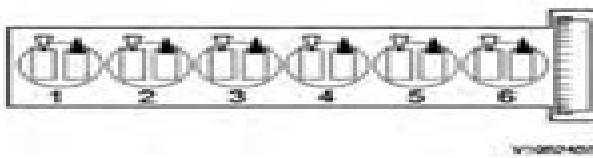


Figure 1.
Cylinder orientation

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 rear 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.

Assembly plants:

- A = Skövde, Sweden
- E = Curitiba, Brazil
- F = Filen, Sweden
- L = Lyon, France

Identification plate 3

The certification decal is located on the valve cover as well as on the machine frame.

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John S. Mead

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