

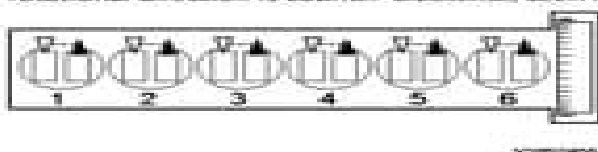
|                                               |                               |                                                 |                           |
|-----------------------------------------------|-------------------------------|-------------------------------------------------|---------------------------|
| Document Title:<br><b>Engine, description</b> | Function Group:<br><b>200</b> | Information Type:<br><b>Service Information</b> | Date:<br><b>2014/4/18</b> |
| Profile:<br><b>WLO, L180F, L180F HL (GB)</b>  |                               |                                                 |                           |

## Engine, description

D12D is 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 the legal requirements according to Tier 3/Stage IIA for exhaust emissions.

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

The cylinders are numbered in sequence, starting farthest away from the flywheel. Ignition 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 = Flen, 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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**Haynes Publishing, Matthew  
Minter, John S. Mead**



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