

Document Title: Engine D9B, description and operation	Function Group: 200	Information Type: Service Information	Date: 2014/12/11
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Engine D9B, description and operation

D9B - Tier 3 compliant

The D9B engine configuration consists of a four stroke, straight six cylinder, turbocharged, direct injected diesel engine with charge air cooling and wet, replaceable cylinder liners.

The engine has an overhead camshaft and unit injectors, which are centered above the pistons and controlled by the camshaft and a control unit (E-ECU).

The D9 uses V-ACT (Volvo Advanced Combustion Technology). The V-ACT D9B engine features a flexible high pressure fuel injection with dual solenoid injectors and optimized air handling with a fixed geometry turbocharger. Electronically controlled DEGR (Internal Exhaust Gas Recirculation) reduces NO_x formation and lowers emissions without the need for exhaust after treatment. Volvo's latest engine management system, EMS2 is used to control all engine electronic functions.

The cylinders are numbered consecutively beginning at the pulley end. Engine rotational direction is counterclockwise as seen from the flywheel end.

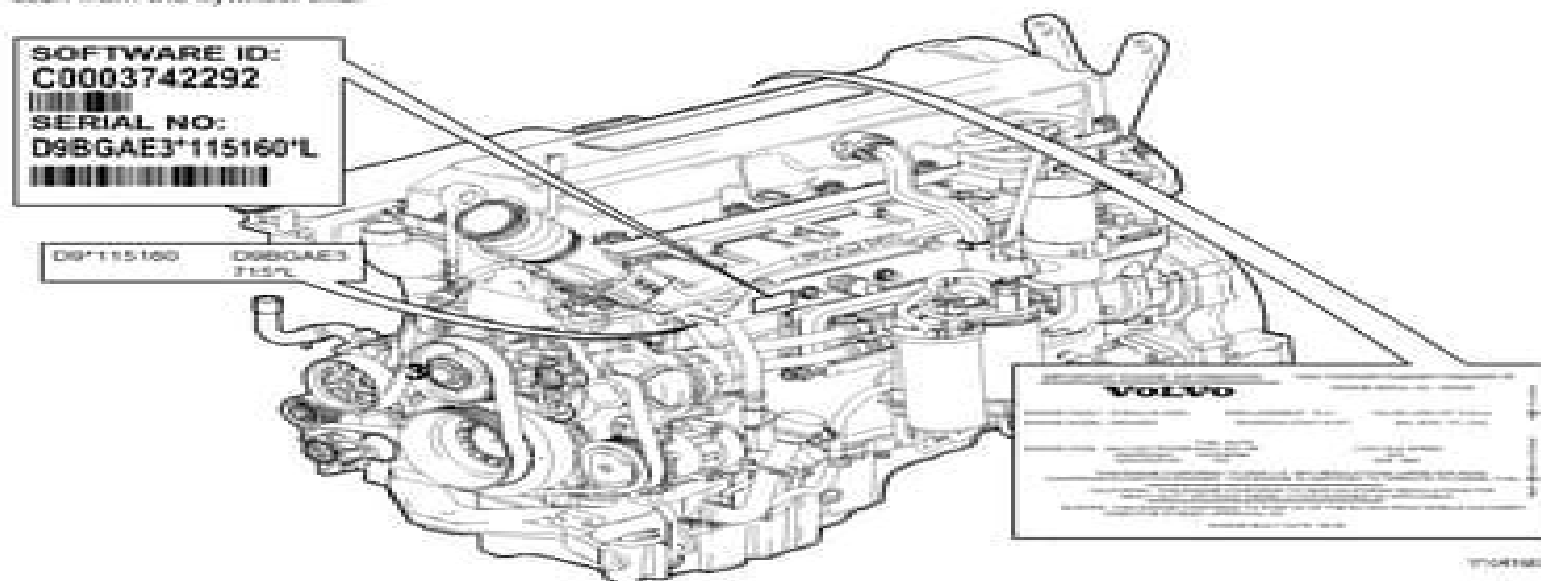


Figure 1
D9B

Volvo G990 Motor Grader Service Repair Manual Instant

Robert Phillip Maddox



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