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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 IDGR (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.

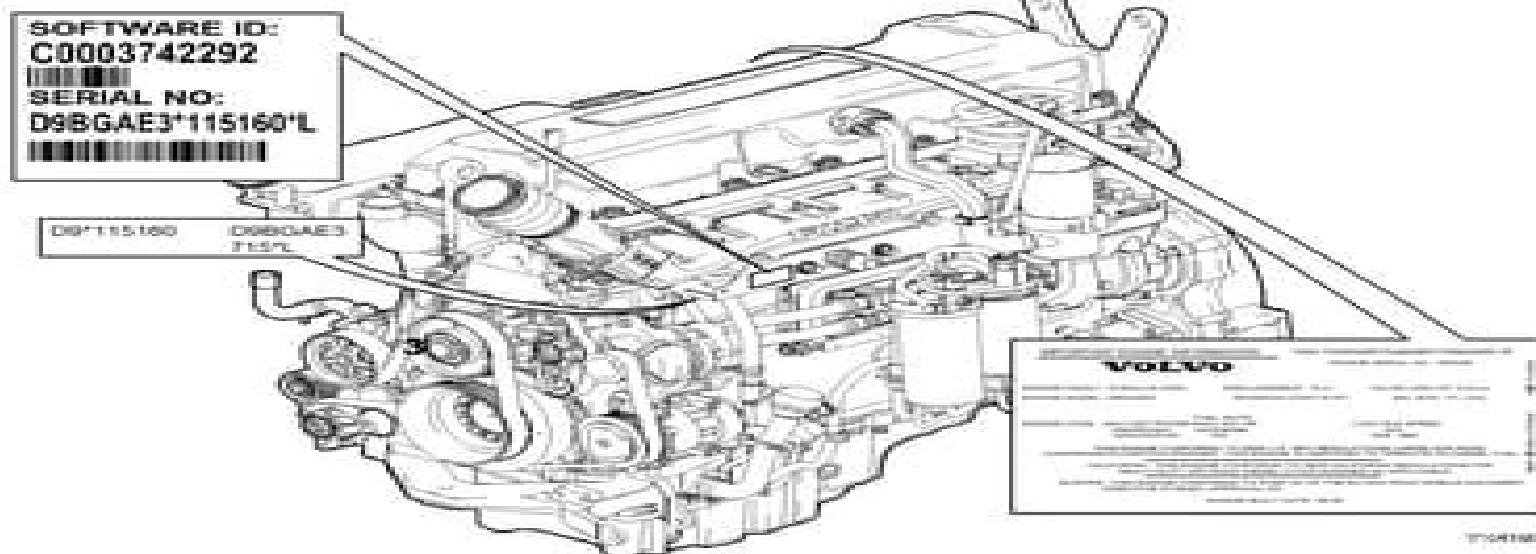


Figure 1
D9B

Volvo G990 Motor Grader Service Repair Manual Instant

Colin Brown

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Volvo 850 Service and Repair Manual John S. Mead,2015 Volvo 300 Series Colin Brown,1996 Volvo 740 & 760

Matthew Minter,John S. Mead,1996 Saloon Estate inc special limited editions Petrol 2 0 litre 1986cc 2 3 litre 2316cc 2 8 litre 2849cc **Volvo 240 Service Manual** Bentley Publishers,2011-04 The Volvo 240 Service Manual 1983 1993 is a

comprehensive source of service information and specifications for Volvo 240 and other Volvo 200 series cars built from model years 1983 through 1993 Whether you're a professional technician or a do it yourself Volvo owner this manual will help you understand maintain and repair systems on the Volvo 240 Volvo 200 series and 240 models covered in this repair manual 1983 1985 DL GL 1983 1985 Turbo 1986 1993 240 240 DL Volvo 200 series and 240 gasoline engines covered in this repair manual B21F B21F T Turbo B23F B230F Volvo S70, V70 & C70 Service and Repair Manual Jex RM,2014

Volvo 940 Service and Repair Manual John S. Mead,1996 Volvo 240 Series Service and Repair Manual Steve J.

Maddox,Steve Churchill,2014 This Volvo 240 series owner's manual illustrated with drawings and photographs provides comprehensive advice on routine maintenance fault diagnosis and wiring using common tools Volvo 400 Series Service and Repair Manual A. K. Legg,1999 Hatchback Saloon Coupe inc Turbo special limited editions Petrol 1 6 litre 1596cc 1 7 litre 1721cc 1 8 litre 1794cc 2 0 litre 1998cc Volvo 400 Series A. K. Legg,2003 **Volvo S40 and V50 Diesel (07-13)**

07 to 62 Chris Randall,2013-01-01 Part of the Haynes Service and Repair Manual Series this title covers Volvo S40 and V50 diesel cars made between 2007 and 2013 **Service Manual Repairs and Maintenance** Volvo, Volvo 240 Series

Service and Repair Manual Robert Maddox,Steve Churchill,1996 240 242 244 245 inc special limited editions Petrol 2 0 litre 1986cc 2 1 litre 2127cc 2 3 litre 2316cc OHC Does NOT cover OHV engines Volvo 240 Series Service and Repair Manual

Robert Phillip Maddox,1996 **Volvo 240 Series Owners Workshop Manual** Robert Phillip Maddox,Steve Churchill,2015-08 This Volvo 240 series owner's manual illustrated with drawings and photographs provides comprehensive advice on routine maintenance fault diagnosis and wiring using common tools **Volvo S40 & V40 Service and Repair Manual** Mark Coombs,Spencer Drayton,2005-01-01 S40 Saloon V40 Estate inc T4 special limited editions Does NOT cover new S40 V50 range introduced Mar 2004 or bi fuel models Petrol 1 6 litre 1588cc 1 8 litre 1731 1783 1834cc 1 9 litre 1855cc 2 0 litre 1948cc inc GDI Turbo Volvo S40 and V50 Diesel Owner's Workshop Manual, 07-13 Chris Randall,2016-10

Volvo 400 Series Service and Repair Manual ,2013 Volvo S70, C70 & V40 Service and Repair Manual Robert Jex,1999

Volvo V 70 & S80 Martynn Randall,2006 In this book Martyn Randall provides a service and repair manual for the Volvo V70 and Volvo S80 automobile Volvo 940 (Swedish) Service and Repair Manual John S. Mead,2014-07 The aim of this manual is to help readers get the best from their vehicle It provides information on routine maintenance and servicing and the tasks are described and photographed in a step by step sequence so that even a novice can do the work

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