

VOLVO

Construction Equipment

Service Information

Document Title	Function Group	Information Type	Date
Description, complete machine	000	Service Information	2024/12/04
Title			
000, 0070, 0080			

Description, complete machine



Figure 1
G90 (front), side view

Intended use

The machine is intended to be used under normal conditions for the operators described in the Operator's Manual. It is not to be used for other purposes or in particularly dangerous environments, for example, an explosive atmosphere, areas with dust containing asbestos, etc. Special safety regulations must be followed and the machine must be equipped for such use. Contact the manufacturer's dealer for further information.

Engine

G90, G90L, G90L, G90L

G90 Volvo (D10CCE), G90L Volvo (D10CCE), G90L Volvo (D10CCE), 4.7 L (5.7 liter) 6-cylinder, four-stroke, four-cylinder, diesel engine, low-emission engine which is turbocharged with charge air cooling of the air in an air type (common rail fuel system) and BHP (gross) exhaust gas recirculation are controlled by the engine electronic control unit (E-ECU) software. The engine has six, replaceable cylinder liners and two valves per cylinder with replaceable valve guides and valve seat inserts. The accelerator position is transferred electrically from the accelerator pedal to the control unit (E-ECU). All models have ROPS (variable horsepower).

G90L, G90L, G90L

G90L Volvo (D10CCE), G90L Volvo (D10CCE), 4.7 L (5.7 liter) 6-cylinder, four-stroke, four-cylinder, low-emission engine which is turbocharged with charge air cooling of the air in an air type (common rail fuel system) and BHP (gross) exhaust gas recirculation are controlled by the engine electronic control unit (E-ECU) software. The engine has six, replaceable cylinder liners and two valves per cylinder with replaceable valve guides and valve seat inserts. The accelerator position is transferred electrically from the accelerator pedal to the control unit (E-ECU). All models have ROPS (variable horsepower).

G90

All Volvo grader models have engines that provide three different power levels depending on the gear selected by the operator.

Volvo engine power (horsepower) per

Range	Volvo	Volvo
Low	15, 15, 15	15, 15, 15, 15, 15
Mid	15, 15, 15, 15, 15	15, 15, 15, 15, 15
High	15, 15, 15, 15	15, 15, 15, 15, 15

Electrical system

The electrical system is a 12VDC, negative ground system. Power is supplied by two 12VDC batteries connected in series. Battery charging is accomplished using a standard 50 amp alternator or an optional 60 amp alternator. Electrical power can be isolated using a battery disconnect switch.

The machine has three electronic control units (ECUs). The ECU for the instrumentation is integrated with the display unit, warning lamps and instruments, and provides the operator with information via these.

The ECU for the mechanical system signals fault status on the machine and these are passed on to the ECU and ECU. The ECU is placed in the electrical distribution box on the back wall of the cab.

The ECU controls the engine. For 50 engines, the ECU is installed in the cooling module. For 50 engines, the ECU is installed on the engine.

Power transmission

All machine models are equipped with the standard 170000 powershift transmission, which has 8 forward and 4 reverse speeds. All machine models can be equipped with the optional 170000 powershift transmission, which has 11 forward and 4 reverse speeds. Both transmissions are direct drive, fully synchronized units using a constant shaft design.

Rear axle / axles

Models G90, G90L, G90L and G90L are equipped with the 4000 rear axle. Models G90, G90L and G90L are equipped with the 4000 rear axle. Each has an operator-controlled lock / unlock differential. Transfer wheels are chain drive.

Brake system

Hydraulically actuated, all the service brakes are located in the four tandem drive axles. The crossover dual braking circuit provides even braking on both sides of the machine.

If the engine stalls or hydraulic line pressure becomes inoperative, full braking capability is available through a return system. An electric motor and hydraulic pump unit supplies the power required to bring the machine to a safe stop.

Parking brake

The parking brake is a spring applied / hydraulically released wet multiple disc brake. The brake assembly is located inside the rear axle housing. In the event of transmission system pressure loss, an accumulator in the circuit stores system pressure and allows the parking brake to remain released for about 30 minutes.

Steering system

The steering system is a closed-circuit, hydraulic signal, load-sensing system. The hydraulic steering system incorporates two steering cylinders and the turning on is 30°. The turning wheel and articulating frame features can be used to decrease the turning radius. Secondary steering is available as an option.

Cab and Frame

Operator's cab can be provided with pressurized air conditioning and / or heating systems as options. All controls are housed in the fully adjustable steering pedestal and the right-hand side console.

Engineered seating and hydraulic control lever placement ensure operator comfort and efficiency. The frame articulates 12° (models G90L, G90L, 12° (models G90L to G90L to the left or to the right and one back valve to ensure stable operation).

ROPS and ROPS

The cab is approved as a protective cab according to the ROPS and ROPS standards, see page 107. ROPS is an abbreviation of Rolling Over Protective Structure (roof protection) and ROPS is an abbreviation of Roll Over Protective Structure (roll over protection).

Never rely on any structural alterations to the cab without first, through a dealer, having obtained the alteration with permission of the Volvo CE Engineering Department. The department will decide whether the alteration may cause the ROPS approval to become void.

Hydraulic system

The closed-circuit hydraulic system uses a pressure and flow compensated load-sensing variable displacement pump. The pump supplies oil to the implements and the steering.

The working line is driven by a hydraulic motor. The speed is variable and is determined by various working requirements. The line operates between pre-determined minimum and maximum speeds. The line returns at its maximum speed until there is a demand for working. The speed will automatically increase with the demand for working.

Each valve is incorporated in the three 16, middle 16, rear 16, wheel turn and articulation hydraulic circuits in power cylinder 16. The control lines are direct drive, featuring type located on a fully adjustable steering pedestal.

Volvo G970 Motor Grader Service Repair Manual

Steve J. Maddox, Steve Churchill



Volvo G970 Motor Grader Service Repair Manual:

Technical Manual for Grader, Heavy, Road, Motorized, Diesel Engine Driven, SSN R038, NSN

3805-01-150-4795, 1985 *Volvo 850 Service and Repair Manual* John S. Mead, 2015 Operation & Maintenance Manual Caterpillar Inc. Peoria, Ill., 1995 *Volvo S70, V70 & C70 Service and Repair Manual* Jex RM, 2014 *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 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 *Service Manual Repairs and Maintenance* Volvo, Volvo 400 Series A. K. Legg, 2003

Motor Grader 555 WABCO Construction & Mining Equipment Group, Volvo 940 Service and Repair Manual John S. Mead, 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 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 **M100 Series B Motor Grader Service Manual Set Form** Fiat-Allis Construction Machinery Inc, 1974* **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 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 **Technical Manual for Grader, Heavy, Road, Motorized, Diesel Engine Driven, SSN R038, NSN 3805-01-150-4795**, 1985 **Motor Graders D560-D680** Dominion Road Machinery Co. Limited, *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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