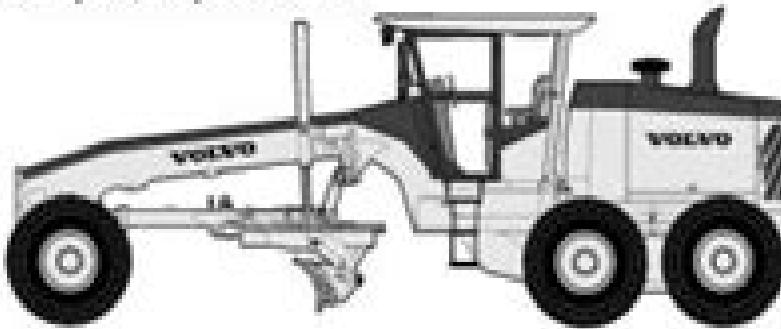


**VOLVO**

Complete machine

**Service Information**

Document title	Section title	Information type	Date
Complete machine	Complete machine	Service Information	2004-03-03
Model	2000, 2010, 2020		

**Description, complete machine****Figure 1**

2000 (General), side view

**Unloaded use**

The machine is intended to be used under normal conditions for the purposes described in the Operator's Manual. If it is used for other purposes or in potentially dangerous environments, for example, on enclosed premises, areas with containing asbestos, etc., special safety requirements must be followed and the machine must be equipped to meet the requirements (refer to further information).

**Engines****2000, 2010, 2020, 2030**

2000 (2000), 2010 (2010), 2020 (2020) and 2030 (2030), a 7.1 liter (2000) or 8.0 liters (2010/2020), a 7.3 liter (2030) engine, diesel injection. Intercooled engine (which is turbocharged with charge air cooling of the air to air type) exhaust and fuel system and fuel pressure exhaust gas recirculation are controlled by the engine electronic control unit (E-ECU) software. The engine has two replaceable cylinder liners and two valves per cylinder with replaceable valve guides and valve seat inserts. The cylinder position is transferred electrically from the accelerator pedal to the control unit (E-ECU). All models have EGR (exhaust gas recirculation).

**2000, 2010, 2020**

2000 (2000), 2010 (2010) and 2020 (2020) engine (which is the base (2000) and 2010), four stroke, direct injection, four valves per cylinder engine which is turbocharged with charge air cooling of the air to air type. Overhead camshaft and fuel injection and fuel pressure exhaust gas recirculation are controlled by the engine electronic control unit (E-ECU) software. The engine has two replaceable cylinder liners and two valves per cylinder with replaceable valve guides and valve seat inserts. The cylinder position is transferred electrically from the accelerator pedal to the control unit (E-ECU). All models have EGR (exhaust gas recirculation).

**2030**

2030 power models have engines that provide three different power levels depending on the gear selected by the operator.

**Low engine power** (selected in gear)

range	options	options
Low	201, 202, 204	201, 202, 203, 205, 207
Med	203, 205, 207, 209	203, 205, 207, 209, 211
High	205, 207, 209, 211	205, 207, 209, 211, 213, 215

**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 60 amp alternator or an optional 100 amp alternator. Electrical power can be isolated using a battery disconnect switch.

The machine has three electronic control units (ECUs). The ECU for the transmission is integrated with the display unit, showing torque and instruments, and provides the operator with information on these.

The ECU for the machine controls engine functions on the machine and these are passed on to the ECU and to the ECU in the electronic distribution box on the front end of the unit.

The ECU controls the engine. For D13 engines, the ECU is located in the cooling module. For D9 engines, the ECU is located on the engine.

**Power transmission**

All engine models are equipped with the optional 11/12/13 powershift transmission, which has 8 forward and 4 reverse speeds. All machine models can be equipped with the optional 17/18/19 powershift transmission, which has 11 forward and 4 reverse speeds. Both transmissions are direct drive, fully sequential units using a countershaft design.

**Front axle / rear axle**

Models 2000, 2010, 2020 and 2030 are equipped with the 2000 rear axle. Models 2010, 2020 and 2030 are equipped with the 2030 rear axle. Each has an operator controlled front / vehicle differential. Tandem wheels are standard.

**Brake system**

Hydraulically actuated, all disc service brakes are located at the four tandem drive shafts. The disc rear dual braking consists primarily over heating on both sides of the machine.

If the engine fails or hydraulic boost pressure becomes problematic, full braking capability is available through a reserve 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 rear axle system pressure will allow the parking brake to remain released for about 20 minutes.

**Steering system**

The steering system is a closed centre, dynamic regass, load sensing system. The hydraulic steering system incorporates low steering resistance and the turning arc is 90°. The steering wheel and articulating bracket features can be used to decrease the turning radius. Secondary steering is available as an option.

**Cab and seats**

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

Independent heating and hydraulically assisted rear windows ensure operator comfort and efficiency. The three articulates (IP) features (2000/2010/2020, 2010 models 2010 to 2030) to the left or to the right and each side to ensure safe operation. IP200 and IP201

The cab is equipped as a protective cab according to the IP20 and IP201 measures, see page 207. IP20 is an abbreviation of Falling Hinged Protective Structure (fall protection) and IP201 is an abbreviation of Fall Out Protective Structure (fall prevention).

Never carry out any non-authorized alterations to the cab without first, through a dealer, having discussed the alteration with personnel of the Volvo CE Engineering Department. The department will decide whether the alteration may cause the IP20 approval to become void.

**Hydraulics system**

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

The steering has to steer by a hydraulic motor. The system is variable and is determined by various steering requirements. The fan requires between two different constant and maximum speeds. The fan rotates at its maximum speed until there is a demand for cooling. The speed will automatically increase until the demand for cooling.

Load factors are incorporated in the body (4), midbody (4), body (4), wheel (4) and articulation. Hydraulic priority to power cylinder (4). The lowest levels are wheel (4), followed by body (4) followed by body (4) followed by 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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