

VOLVO

Powertrain Support

Service Information

Document Title	Function Group	Information Type	Date
Electrical system, work instructions	000	Service Information	6/14/2008
Profile			
L-90 Volvo			

Electrical system, work instructions

Showing Selected Profile

Table for serial numbers			
Model	Production date	Serial number start	Serial number stop
L-90 Volvo			

1. Fully charged and otherwise satisfactory batteries must always be used when testing the electrical system.
2. Test the batteries with an acid tester. The battery disconnect switch should be turned off.
3. When fitting a battery, make sure that the battery is connected with the correct polarity.
4. When charging batteries connected in series, make sure they are of equal capacity. For example, 2 batteries of 105 Ah. The batteries should have the same age (same quality) so the charging current required to reach a certain voltage varies with battery age.
5. If a booster battery is required to start the engine, the instructions in the Operator's Manual must be strictly followed. See also Safety.
6. Before any tests are performed on the alternator or regulator, check the batteries and electrical loads for defective insulation, loose contacts and corrosion. Check the alternator belts. All possible defects described above must be corrected before starting electrical checks.
7. For all testing of alternating current equipment, use "twice" connections in order to prevent sparks and voltage transients. A loose cable may result in destruction of both the alternator and regulator.
8. Never disconnect the alternator leads while the engine is running. This could damage both the alternator and regulator.
9. If the current alternator output section should be connected to the chassis, damage may occur to the alternator and regulator.
10. When removing or fitting components in the electrical system, the chassis connection should be interrupted as the battery disconnect switch should be turned off.
11. For electric welding on the machine or on attachments on machine:
 - ⊗ ground connection turned off with battery disconnect switch,
 - ⊗ fuse link must be removed, located near the battery disconnect switch,
 - ⊗ connectors for all control units (ECUs) must be unplugged.

NOTE:

Ground the welding unit as close as possible to the welding point.

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Electrical system, description	000	Service Information	6/14/2008
Profile			
L-90 Volvo			

Electrical system, description

Showing Selected Profile

Table for serial numbers			
Model	Production date	Serial number start	Serial number stop
L-90 Volvo			

The machine has a 24 V electrical system with two 12 volt batteries located on each side of the rear frame behind the rear wheels.

The battery disconnect switch is located under the radiator casing.

Voltage test is supplied via the fuse box in the engine compartment. The fuse box contains the main fuse for the electrical distribution box and fuses for the preheating coil and starter motor.

Relays and fuses are placed in the electrical distribution box behind the operator's seat and are accessible when the door is opened. On the inside of the cover, a chart showing which current-consuming device is connected to respective relays and fuses. The relays in the electrical distribution box are interchangeable.

The components are marked according to function group. The first digit in the marking, i.e. 0000, indicates that the component belongs to engine (group 0). Other digits are sequential numbers. There are also components with a four-digit designation, i.e. 00000. The first two digits indicate function group and the other indicate sequential number.

Safety:

For working on the electrical system, follow the instructions in section [Electrical system, work instructions](#).



Figure 1
Front view

Volvo L90e Loader Service Manual

RD Boyd



Volvo L90e Loader Service Manual:

Service Manual Wheel Loader & Tool Carrier Volvo Construction Group,1998 Volvo Service Manual Volvo, Aktiebolaget,1962 **Volvo Service Manual** Volvo, Aktiebolaget,1966 **Volvo 850 Service and Repair Manual** John S. Mead,2015 *Volvo F/G 89 Service Manual* Volvo,197? **Volvo Service** Volvo, Aktiebolaget,1970* *Wheel Loader 988* , *Volvo Service* ,1985* **Volvo Service Manual** ,1984 *Volvo service manual* ,1983 **Service Manual Repairs and Maintenance** Volvo, **Operation & Maintenance Manual** Caterpillar Inc. Peoria, Ill.,1999 **Service Manual** ,1975 **Volvo Service Manual, Trucks** ,1980 *Volvo Service Manual* , Volvo Service Manual ,19?? **Volvo Service Manual** ,1984 Volvo Service Manual Servicehandbook ,1979 **Volvo S40 and V50 Diesel Owner's Workshop Manual, 07-13** Chris Randall,2016-10 **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

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