

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 value 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,
 - ⊗ connection for all control units (ECU) must be unplugged.

NOTE:

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

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Document Title	Function Group	Information Type	Date
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 Manual

Volvo, Aktiebolaget



Volvo L90e Manual:

State of Colorado Mobile Equipment Manual ,2006 **MQR Equipment Yearbook** ,2005 **Volvo Service Manual**
Volvo, Aktiebolaget,1966 *Volvo F/G 89 Service Manual* Volvo,197? Volvo 850 Service and Repair Manual John S.
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07 to 62 Chris Randall,2013-01-01 Part of the Haynes Service and Repair Manual Series this title covers Volvo S40 and V50
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