



Volvo L90C



- **Engine output SAE J1349:**
gross 118 kW (160 hp)
net 113 kW (153 hp)
- **Operating weight:** 14,4–16,1 t
- **Buckets:** 2,2–7,0 m³
- **Torque Parallel Linkage**
 - high breakout torque throughout the working range
 - excellent parallel lift-arm action
- **Volvo low emission engine**
 - with excellent low rpm lugging performance
 - meets all known exhaust emission regulations for off-road vehicles until 2001
- **Volvo BM transmission with APS II**
 - 2nd generation Automatic Power Shift with mode selector
 - optimises performance
- Fully sealed oil-circulation cooled wet disc brakes, outboard mounted
- **Care Cab** – pressurized cab with high comfort and safety
- **Contronic** monitoring system
- **Load-sensing** steering system
- **Pilot-operated working hydraulics**
 - Hydraulic attachment bracket (option)

VOLVO

| REF NR REF NO | SATS NR KIT NO | DATUM/DATE ENHET/DEPT | PRODUKT/PRODUCT | PAGE |
|------------------|-----------------------|--------------------------|--|------|
| 23 1 779 3548 | 11703810-9 (93539) | 1297 MSE2 | L90C S/N 14567 -, U.S 62629 -, PED. 70091 - | 1/11 |

3rd hydraulic function

Kit list

| Qty. | Part No. | Description |
|------|----------|-----------------------|
| 1 | 935053 | Hose |
| 1 | 935055 | Hose |
| 4 | 943907 | Gasket |
| 2 | 944252 | Gasket |
| 2 | 946329 | Bolt |
| 2 | 946470 | Bolt |
| 2 | 946671 | Bolt |
| 2 | 977742 | Clamp |
| 2 | 4780759 | Protecting sleeve |
| 12 | 4880575 | Clamp |
| 6 | 4880578 | Cover plate |
| 8 | 4881440 | Strip Clamp |
| 2 | 4881453 | Marking sleeve |
| 2 | 11003221 | Mounting ring |
| 1 | 11007489 | Plate |
| 2 | 11014127 | Marking sleeve |
| 1 | 11015731 | Pipe |
| 1 | 11015787 | Pipe |
| 1 | 11015804 | Hose |
| 1 | 11015805 | Hose |
| 1 | 11015852 | Bracket |
| 4 | 11020356 | Cap |
| 1 | 11025637 | Lever |
| 1 | 11025791 | Decal |
| 2 | 11043022 | Quick-action coupling |
| 2 | 11133266 | Bracket |
| 1 | 13932835 | Hose |
| 1 | 13933180 | Hose |
| 4 | 13944524 | Nipple |
| 2 | 13945444 | Bolt |
| 4 | 13948217 | Bolt |
| 2 | 13948700 | O-ring |

| | | | | |
|------------------|-----------------------|--------------------------|--|------|
| REF NR REF NO | SATS NR KIT NO | DATUM/DATE ENHET/DEPT | PRODUKT/PRODUCT | PAGE |
| 23 1 779 3548 | 11703810-9 (93539) | 1297 MSE2 | L90C S/N 14567 -, U.S 62629 -, PED. 70091 - | 2/11 |

| Qty. | Part No. | Description |
|------|----------|-------------|
| 2 | 13949873 | Washer |
| 2 | 13965216 | Bolt |
| 8 | 13970948 | Bolt |

| | | | | |
|-----------------------------------|--|--|---|--------------|
| REF NR REF NO 23 1 779 3548 | SATS NR KIT NO 11703810-9 (93539) | DATUM/DATE ENHET/DEPT 1297 MSE2 | PRODUKT/PRODUCT L90C S/N 14567 -, U.S 62629 -, PED. 70091 - | PAGE 3/11 |
|-----------------------------------|--|--|---|--------------|



WARNING!

Read all signs and instructions on the machine and the safety instructions in the operators manual, before you start working on the machine.

The installation instructions are based on the use of special tools, the E-tool and standard tools generally available on the market, and also on our operators manuals and service manuals.

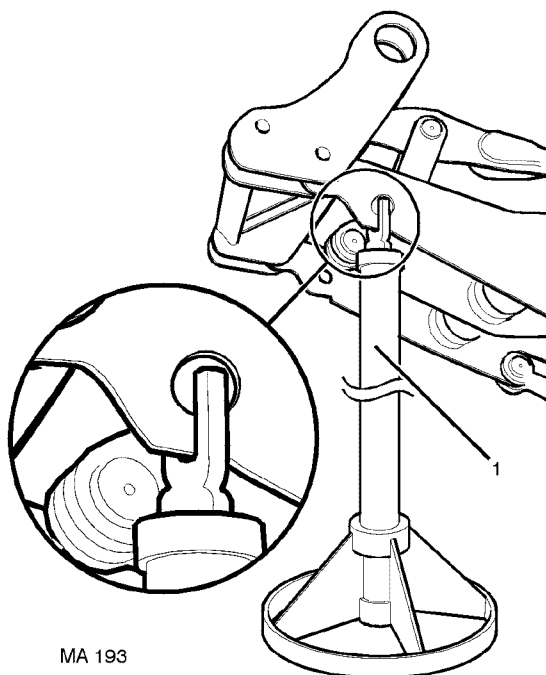
The equipment should be installed by qualified personnel of an authorised workshop.

Volvo Construction Equipment disclaims all responsibility if tools and work methods other than those described in the instructions are used.

Work description

Control valve - Servo valve

- 1 Raise lifting frame and secure with support 999 3831, see Fig. 1.



MA 193

Fig. 1

- 1 Support 999 3831 is placed on solid base.
- 2 Remove the cover plate in front of the control valve. Clean the control valve and hoses on the control valve.

| REF NR REF NO | SATS NR KIT NO | DATUM/DATE ENHET/DEPT | PRODUKT/PRODUCT | PAGE |
|------------------|-----------------------|--------------------------|--|------|
| 23 1 779 3548 | 11703810-9 (93539) | 1297 MSE2 | L90C S/N 14567 -, U.S 62629 -, PED. 70091 - | 4/11 |

- 3 Connect a vacuum pump to the tank or in other case empty the hydraulic oil tank.
- 4 Remove existing plugs on control valve spring covers, 3rd section.
Fit nipples and gaskets.

| Part No. | Description | Qty. | Pos., see Fig. 11 |
|----------|------------------------|------|-------------------|
| 13944524 | Nipple (10 - R1/4 - L) | 2 | 27 |
| 943907 | Gasket (13.7) | 2 | 28 |

- 5 Sheath two hoses in frame joint existing protecting sleeves. Colour mark the hoses and connect them to control valve spring covers.
Long sleeve marked in violet is connected to the control valve lower spring cover.

| Part No. | Description | Qty. | Pos., see Fig. 11 |
|----------|------------------------|------|-------------------|
| 13932835 | Hose (3/8 x 2850) | 1 | 25 |
| 13933180 | Hose (3/8 x 1950) | 1 | 26 |
| 11014127 | Marking sleeve, grey | 2 | 32 |
| 4881453 | Marking sleeve, violet | 2 | 33 |
| 4881440 | Strip Clamp | 4 | 34 |

- 6 Cut hole through existing rubber grommet in floor.
Run hoses through rubber grommet.
Clamp hoses with existing clamp, see Fig. 2.

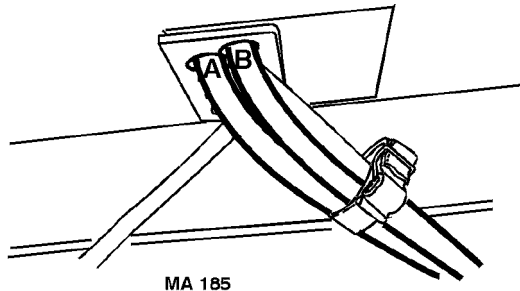


Fig. 2

- 7 Remove lifting and tilting lever balls, plate with brushes and servo valve covers.

It's a preview. You can download the full file by clicking the link below.

<https://shopservicemanual.com/>

Service Manuals from 2\$