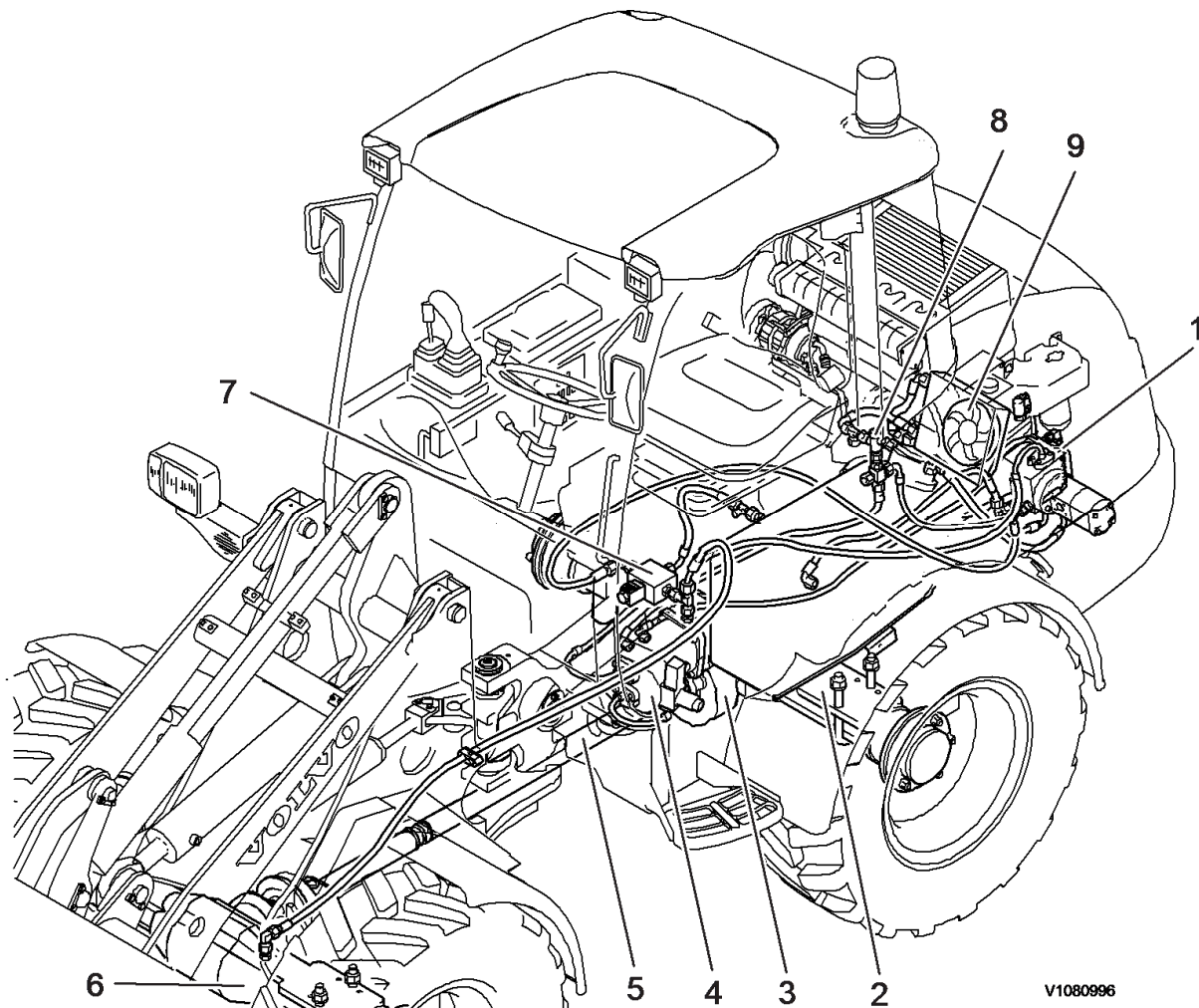


Document Title: <b>Power transmission, description</b>	Function Group: <b>400</b>	Information Type: <b>Service Information</b>	Date: <b>2014/3/8 0</b>
Profile: <b>CWL, L20F [GB]</b>			

## Power transmission, description

The machine drive power, forward and reverse, is achieved with hydrostatic drive. The hydrostatic pump is flanged to the diesel engine and driven directly. The oil flow from the hydrostatic pump passes to a hydrostatic motor flanged to the dropbox. The power from the hydrostatic motor is transferred via the dropbox to the rear axle. Via the propeller shaft joint the front axle is driven at the same time, giving permanent all-wheel drive.

The 100% differential lock integrated in the front and rear axles can be switched hydraulically. Using the inch brake function, stepless adjustment of the drive speed is guaranteed.



V1080996

**Figure 1**

1. Hydrostatic pump
2. Rear axle
3. Dropbox
4. Hydrostatic motor
5. Propeller shaft
6. Front axle

7. Diff. lock solenoid valve
8. Thermostat
9. Oil cooler, drive and engine

Document Title: <b>Hydraulic motor, replacing</b>	Function Group: <b>441</b>	Information Type: <b>Service Information</b>	Date: <b>2014/3/8 0</b>
Profile: <b>CWL, L20F [GB]</b>			

## Hydraulic motor, replacing

### Op nbr 441-002

1. Place the machine in service position.
2. Turn OFF the battery disconnect switch.



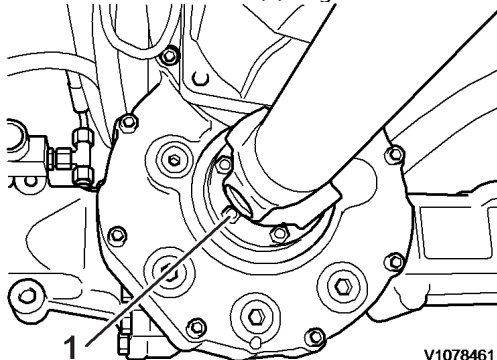
Hot liquids and machine parts can cause burns. Allow the machine to cool before beginning any work.



The work involves handling heavy components - failure to stay alert may result in severe crushing injuries.

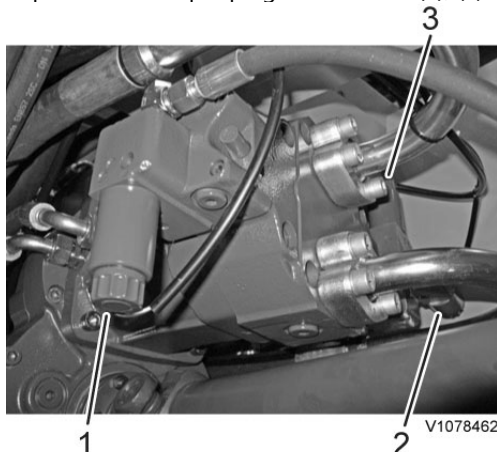
### Removing

3. Remove universal shaft (1) at gearbox.



**Figure 1**

4. Separate electric pin plug connections (1), (2) and (3) from solenoid valve hydrostatic motor.



**Figure 2**

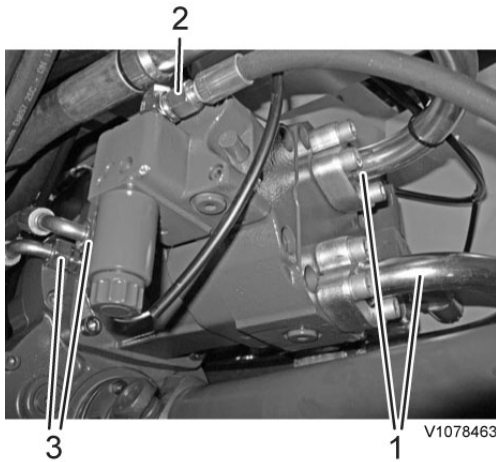
5. Remove high-pressure lines (1), control line (2) and leakage oil lines (3) on hydrostatic motor.

**NOTE!**

Place suitable catchment container below to catch escaping oil.

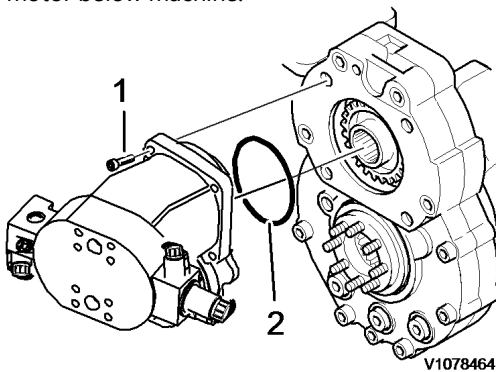
**NOTICE**

**When a hose has been disconnected, plug both the hose and the connection immediately. The hoses should be marked for correct connection.**



**Figure 3**

6. Position stand jack below hydrostatic motor.
7. Unscrew fixing bolts (1). Withdraw hydrostatic motor from gearbox. Lower stand jack and withdraw hydrostatic motor below machine.



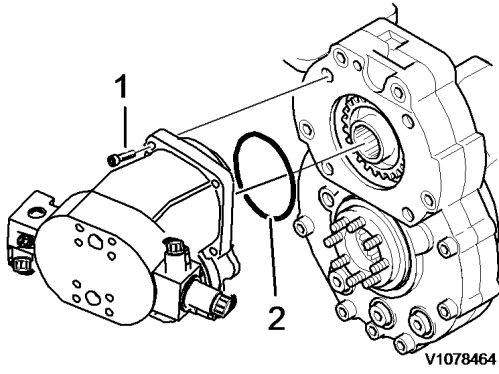
**Figure 4**

**NOTE!**

Hydrostatic motor, weight approx. 48 kg (106 lbs).

## Installation

8. Bring hydrostatic motor into position below machine using stand jack.
9. Insert hydrostatic motor in the gearbox with a new seal ring (2) and tighten bolts. Tightening torque **85 Nm (63 lbf ft)**.

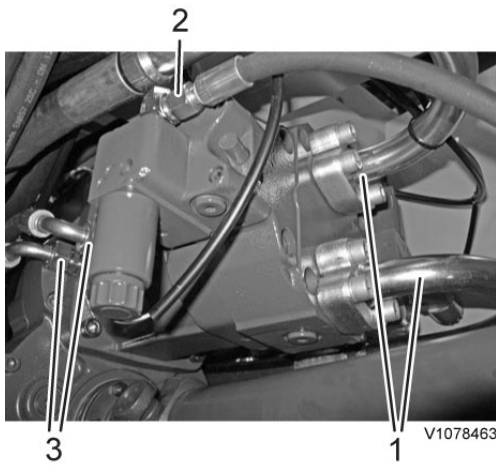


**Figure 5**

10. Install high-pressure lines (1), control line (2) and leakage oil lines (3) on hydrostatic motor.

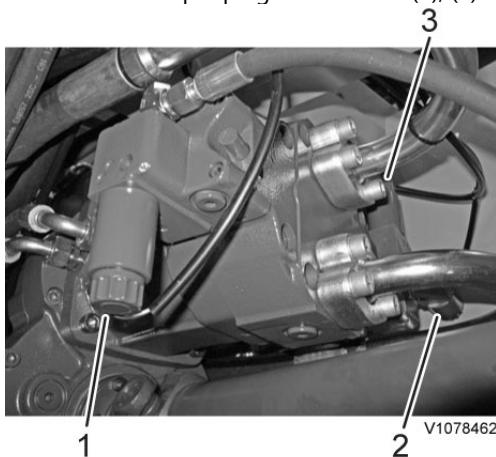
**NOTE!**

Tighten bolts on flange halves, high pressure lines, with a tightening torque of 92 Nm (68 lbf ft).



**Figure 6**

11. Connect electric pin plug connections (1), (2) and (3) of solenoid valve hydrostatic motor.

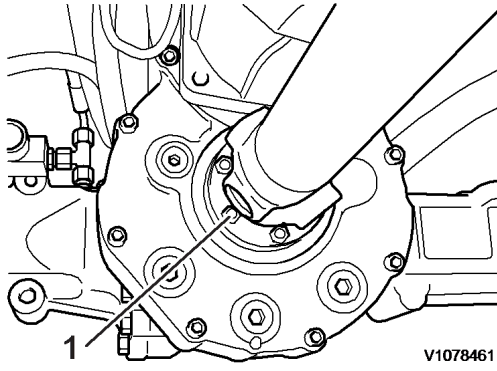


**Figure 7**

12. Mount universal shaft (1) on gearbox. Tighten lock nuts. Tightening torque **36 Nm (27 lbf ft)**.

**NOTE!**

Use new lock nuts.



**Figure 8**

13. Carry out test drive.
14. Check the hydraulic oil level and top up if necessary. See [173 Hydraulic oil level check](#).

Document Title: <b>Hydraulic pump, replacing</b>	Function Group: <b>442</b>	Information Type: <b>Service Information</b>	Date: <b>2014/3/8 0</b>
Profile: <b>CWL, L20F [GB]</b>			

## Hydraulic pump, replacing

### Op nbr 442-001

1. Place the machine in service position.
2. Turn OFF the battery disconnect switch.

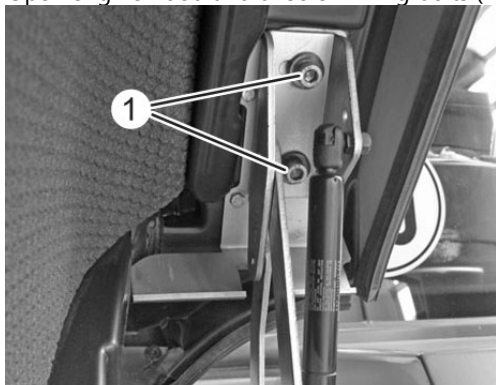


### WARNING

The work involves handling heavy components - failure to stay alert may result in severe crushing injuries.

### Removing

3. Open engine hood and unscrew fixing bolts (1) on both sides.



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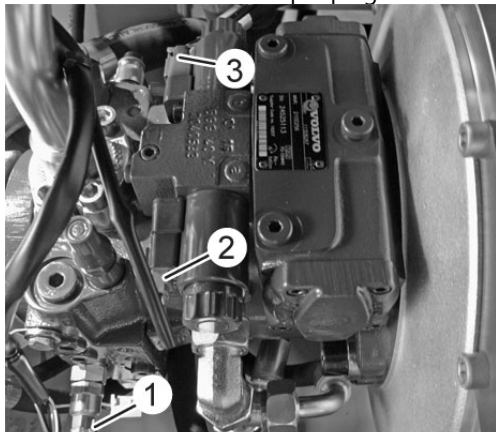
Figure 1

4. Lift off the engine hood and place it on a suitable surface.

#### NOTE!

Engine hood , weight approx. 28 kg (62 lbs).

5. Remove cable ties. Detach pin plug connections at hydrostatic pump.

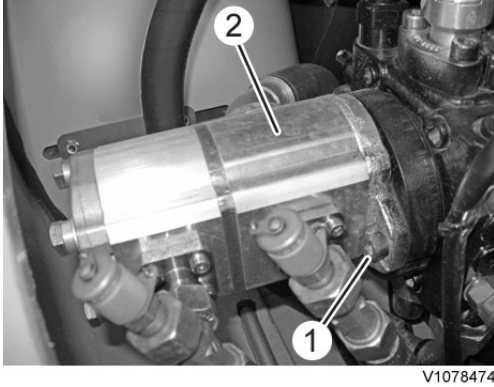


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**Figure 2**

1. Hydraulic oil thermostat (B10)
2. Solenoid valve, reverse drive (Y9)
3. Solenoid valve, forward drive (Y8)

6. Unscrew fixing bolts (1). Withdraw twin gear pump (2) from connection plate and lay on frame plate.



**Figure 3**

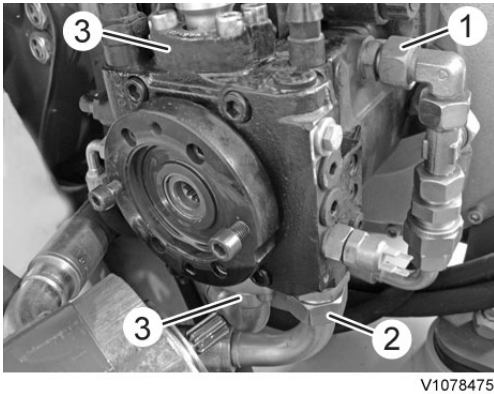
7. Connect vacuum pump. See [900 Vacuum pump connection](#)
8. Remove leak-oil line (1), suction line (2) and high-pressure lines (3) at hydrostatic pump.

**NOTE!**

Place suitable catchment container below to catch escaping oil.

**NOTICE**

**When a hose has been disconnected, plug both the hose and the connection immediately. The hoses should be marked for correct connection.**



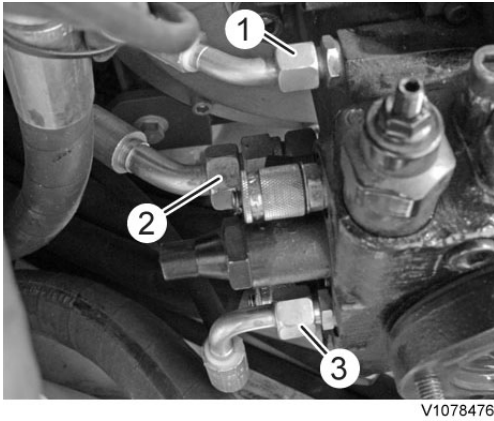
**Figure 4**

9. Remove operating pressure line (1), leak-oil line (2) and feed pressure line (3) at hydrostatic pump.

**NOTICE**

**When a hose has been disconnected, plug both the hose and the connection immediately. The hoses should be marked for correct connection.**

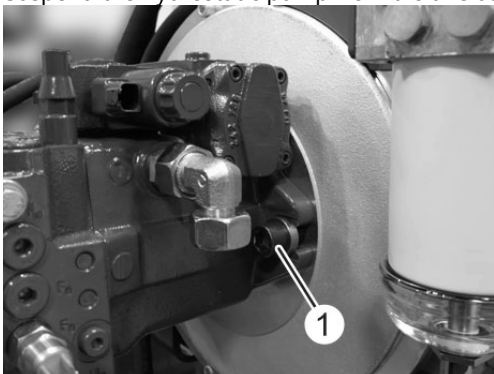




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**Figure 5**

10. Suspend the hydrostatic pump from a crane using suitable hoisting equipment.



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**Figure 6**

11. Withdraw fixing bolts (1). Remove hydrostatic pump from connection flange and place on suitable surface.

**NOTE!**

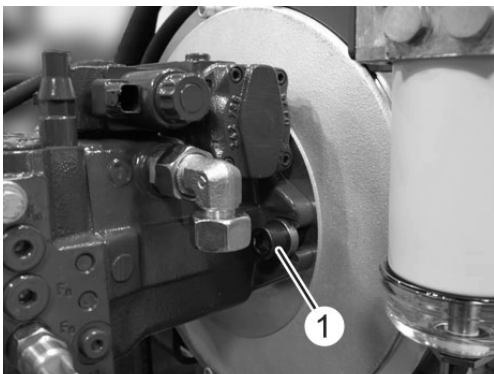
Hydrostatic pump, weight approx. 32 kg (71 lbs).

## Installation

12. Mount the thermostat and connections for the hydraulic lines on the new hydrostatic pump.

**NOTE!**

Tighten the thermostat with a tightening torque of max. 32 Nm (24 lbf ft).



V1080929

**Figure 7**

13. Suspend the hydrostatic pump from a crane using suitable hoisting equipment and insert in the connection flange.

**Thank you very much for reading.**

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