



TEREX | SCHAEFF

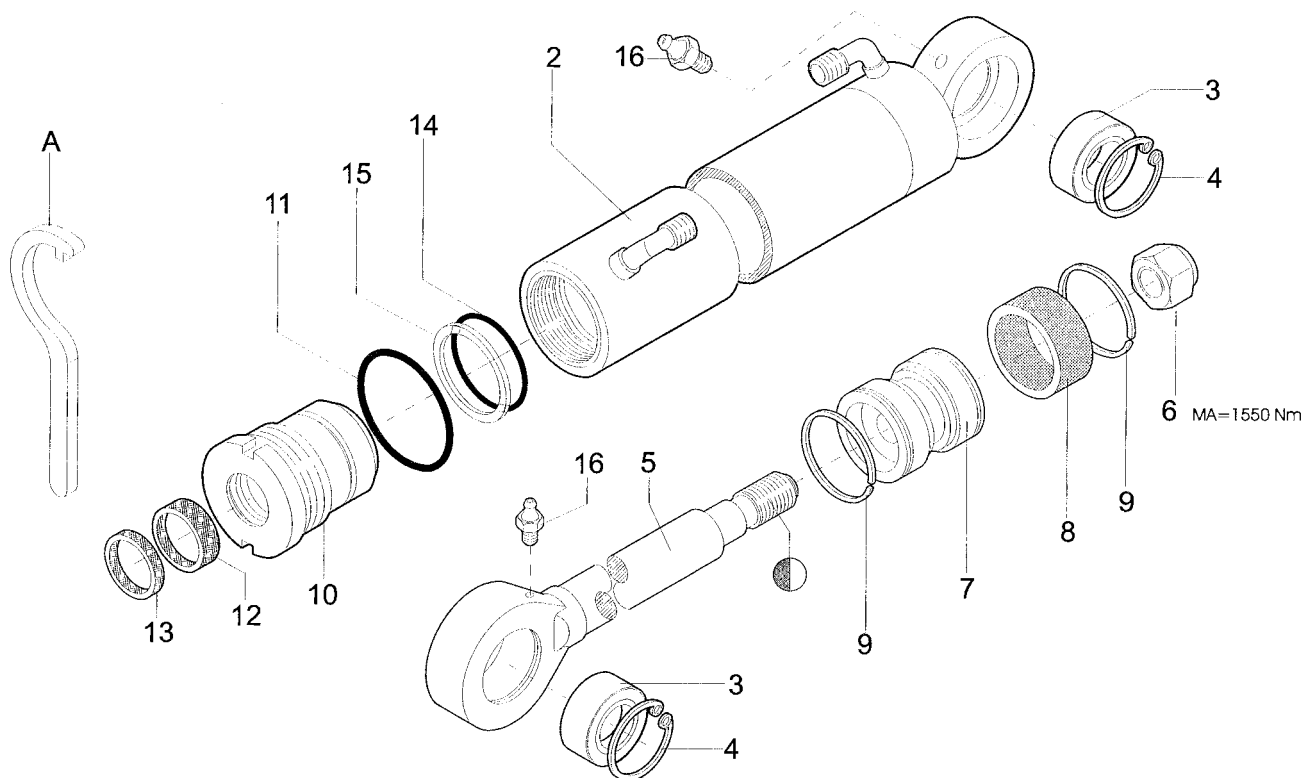
SKL 834

SERVICE-MANUAL

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HR 18 Boom cylinder



(both cylinder sides with end stroke dampening)

- dismount the hydraulic cylinder
- plug the hoses
- clamp the dismantled hydraulic cylinder in a suitable vice in horizontal position
- put an oil collecting receptacle underneath
- unscrew the bushing item 10 by means of a hook wrench item A
- pull the piston rod assembly with piston and bushing out of the cylinder barrel
- clamp the piston rod eye in a suitable vice in horizontal position
- stabilize the piston rod at the piston by means of a square timber
- slacken the nut item 6 (nut is secured with Loctite, warm up to 200° C if necessary)
- extract the piston item 7 with seal item 8
- remove the bushing item 10 from the piston rod

- check the segment type S item 9
- check the piston rod for damage, replace if necessary
- check both bearings, item 3, for wear and tear, replace if necessary
- remove the old seals

Attention:

- do not damage the seal surfaces of the bushing and piston when removing the old seals
- replace all seals and rub with oil

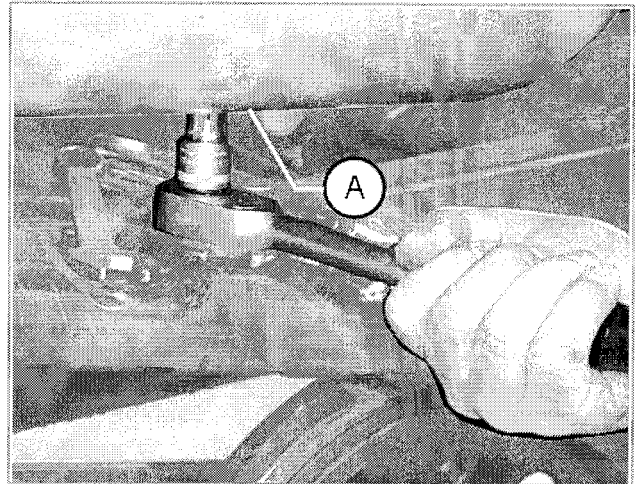
Carry out the assembly in reverse order

- clean the piston rod thread (free from grease)
- screw the new nut (free from grease) item 6 onto the piston rod, secure with Loctite 270.
Tightening torque of nut: 1550 Nm
- check the inside of the cylinder barrel for scratches, damage, bulges, etc.
- insert the piston rod into the cylinder barrel
- grease the thread of the bushing
- screw the bushing in the cylinder barrel
Tightening torque: see chapter 1
- mount the cylinder, connect it and move it carefully and slowly to end stroke (on both sides)

Remove the variable displacement pump

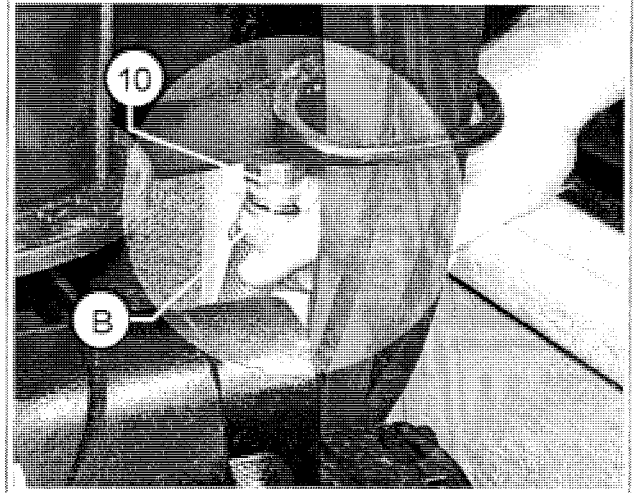
Park the machine in a safe place:

- Observe the safety and accident prevention regulations of the operating manual
 - Leaking agents such as fuels, hydraulic oil, engine oil or coolant are harmful to the environment
 - Prepare receptacles which are big enough to collect the corresponding quantities
 - Collect fluids drained off to reuse them or dispose of them according to the regulations
 - Plug the ports, lines and hoses
- Unscrew the cover **(A)** below the engine.

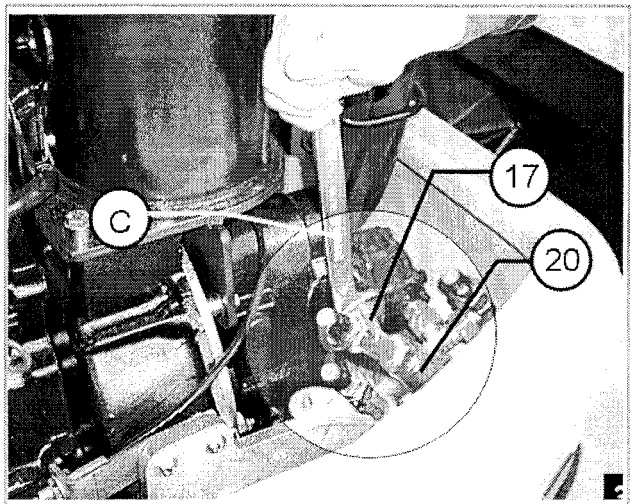


Drain hydraulic oil:

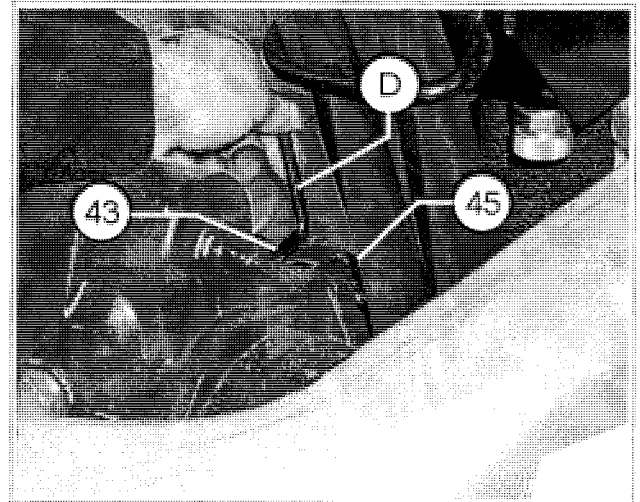
- Connect the drain hose **(B)** at the drain valve **(10)** mounted at the oil tank
- Collect the oil in the receptacle.



- Unscrew the fittings **(17)** and the pressure hoses **(20)** together from the pump (fork wrench **(C)** SW 32)
- Collect the oil
- Plug the hoses and pump with blind plugs



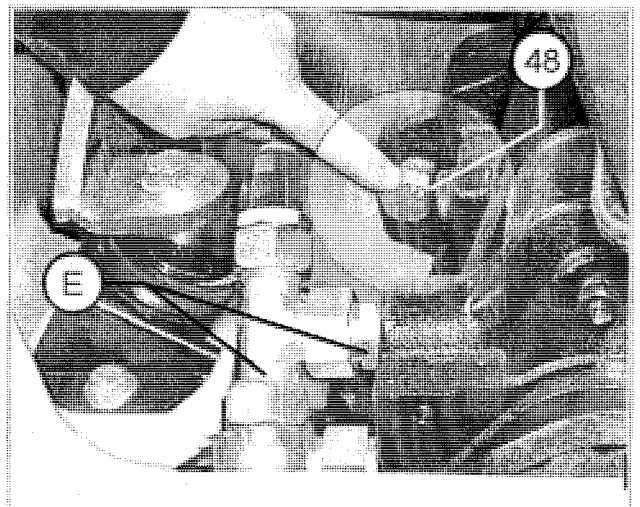
- Unscrew the bolts (43) at the suction flange with a hexagon socket screw key (D) SW10
- Remove the suction hose (45)
- Collect the oil
- Plug the hoses and pump with blind plugs



- Slacken the pump fastening bolts (48) (SW24).

Be careful when removing the pump !

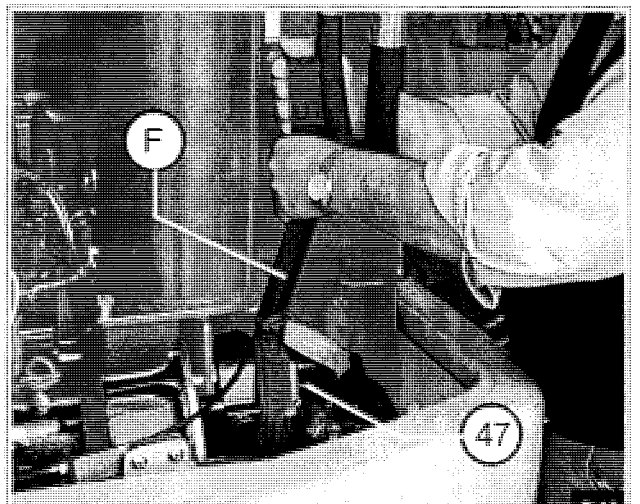
- Secure the pump fastening bolts (48) with Loctite 242, tightening torque MA = 220 Nm.



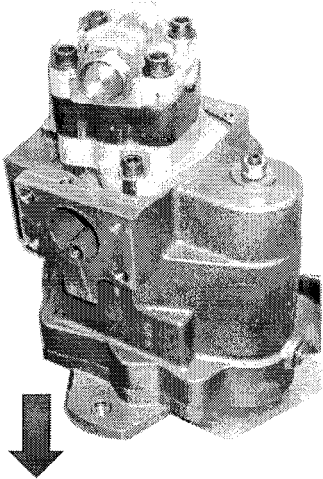
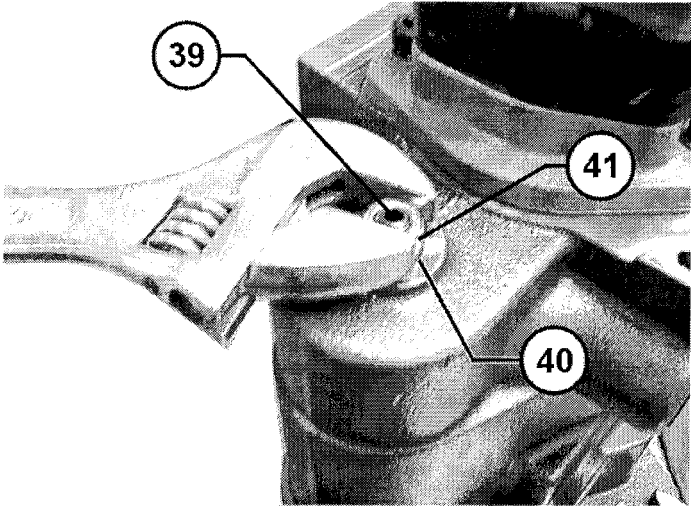
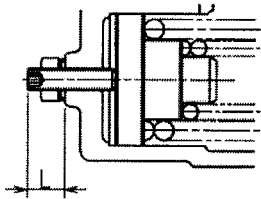
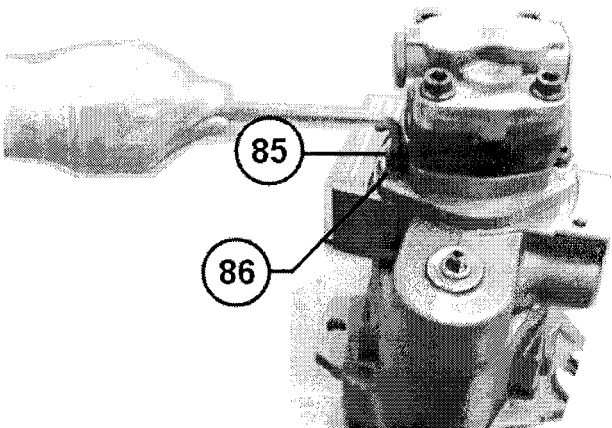
- Pull the pump out of the flange by means of a shoulder strap (F) and lift it out obliquely
- When replacing the pump, reuse the screwed fitting (E) of the old pump
- For the repair of the pump, please refer to pages 11.80.21 to 11.80.25
- Assembly analogous.

Attention !

It is imperative to clean the tank, flush the hydraulic system and replace the filter element after a pump damage.



Pump disassembly

	PICTURE	PROCEDURE
		<p>Clamp the pump with the shaft pointing downward.</p>
		<p>Dismount the setscrew (39), nut (41) and seal washer (40).</p> <p>BE CAREFUL Measure the height „L“ before removing the setscrew.</p> 
		<p>Dismount the bolts (85) and washers (86).</p>

Thank you very much for reading.

This is part of the demo page.

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