



COMPACTTILT™

SERVICE AND MAINTENANCE TASKS

Service and maintenance of CT2-CT3-CT6-CT10

Add	Task	Reason
1	Replacement of locking pawl, cross pin and locking cylinder as well as pressure relief valve	Bent bend. Leaks on lock cylinder, damage to hydraulic hoses for lock cylinder.
2	Replacing the engine	Leak at end caps. Damage to lock case. Lack of lubrication.
3	Opsims of tilt lash / end lash	High bucket lash / tilt lash
4	Leaks around end caps	Damage to fittings
5	Damage to valve system	Collision
6	Broken lock paddles	Lack of lubrication
7	When the tilt cannot tilt from side to side	Lack of lubrication. Broken or damage to cable.

1. Replacement of locking pawl, cross pin and locking cylinder as well as pressure relief valve

- ⊙ Remove bottom plate (note: some products have springs mounted on the bottom screen and are therefore included when removing)

NOTE: ensures that there are no burrs and damage to lock paddles. If they have, they must be sanded off so that they are smooth and round in order to be dismantled.

Before removing hoses and pipes, the machine must be switched off and without a hydraulic system!

(Some models have a pressure relief valve on the outlet side of the lock cylinder. To depressurize the cylinder, loosen the blind plug at the bottom of the lock cylinder.)

- ⊙ Loosen the cylinder at the rear end and push it forward and tilt it down. Then lock paddles can be pushed backwards and pulled down.

Ready to assemble: the above is performed backwards.

NOTE: When mounting the bottom screen with springs, the front end of the bottom screen must be tilted down, and the rear end of the bottom screen tilted up. Otherwise it can not be collected!

It is important that the hydraulic hoses for the locking cylinder lie neatly on the tilt motor - this can be ensured by turning / tightening the hydraulic hose while clamping it.

2. Replacing the engine

The tilt remains on the excavator, the hydraulic system is loosened and removed. Unscrew bolts at ends of motor. Handlebar plugs are pulled out with a blowout fume hood.

The motor is now free and disassembled: To facilitate the process, it may help to use a bracket / C trigger.

Reverse procedure for assembly

NOTE all bolts are tightened with Torque

3. Opsims of tilt lash / End lash

- ⦿ Tilt the tilt fully to one side. Then, 2-3 degrees return. At the pressure end of the tilt, a dial gauge is placed on the stand and reset. The tilt is now fully tilted and held in pressure.
- ⦿ The same procedures are carried out for the other end.
- ⦿ Record data for sales on dial gauge for both ends.
- ⦿ Result must be between 0.05 and 0.15 (new production)
- ⦿ Remove the motor (point 2) and at one end 4 sims are placed on top. The 4 sims are taken out and measured.
- ⦿ New sims are installed so that the lash / clearance is in the range of 0.05 and 0.15. Let the engine sit partially on the bracket so that it is only just pulled down so that it is possible to get to and replace the Sims.

Final assembly is done according to add. 2

4. Leaks around end caps: damage to fittings or detached reversing block or valve block

- ⦿ Check fittings and 1/8 banjo bolt on valve (HS2) or reversing block (hs6 / 8).
- ⦿ Damaged components are replaced
- ⦿ If it is found that the tilt motor is leaking, the motor must be sent for renovation at Compacttilt.dk. Provide serial number and contact our service department for booking time for the fastest possible handling.

5. Damage to valve system

- ⦿ In the event of a failure of the valve system, it is typically experienced that the operator can open and close his vane change
- ⦿ If no incident occurs when the lock button is activated and the tilt is still tilting - the primary cause is faults and damage to the cable. If there is a reaction to both when switching is activated, the primary cause is fault in the valve, or dirt in the valve block.
- ⦿ Check if there is sufficient power
 - A: If Yes, then the valve system must be disassembled and checked for dirt in the cartridge valve and aluminum housing
 - B: If no, get new spare parts

6. Broken lock paddles

- ⦿ Obtain new spare parts. The reason is lack of lubrication.

7. When the tilt cannot tilt from side to side

- ⦿ Check that the tilt is adequately lubricated at end caps
- ⦿ Check there is not a blockage in valve system
- ⦿ Check whether the machine sends correct pressures down to both sides of the tilt

If it does not solve the problem, it indicates that the motor has been subjected to overload.

New engine must be obtained as a spare part.