

# Replacing valve balls in jacks

## Preparing to change valve balls in the pump / valve housing.

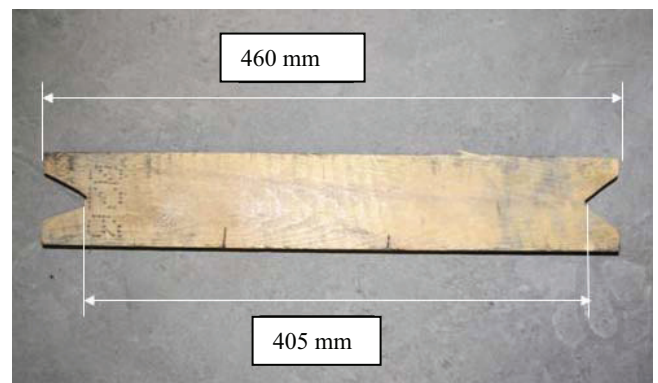
The following tools can be used to perform this repair:

- 1 x Small lock ring plier.
- 1 x 17 mm top and a ratchet wrench or similar.
- 1 x 17 mm spanner.
- 1 x Hook or plastic strips, to hold the cylinder while replacing the valve balls.
- 1 x Magnet or screwdriver to take out the valve balls.
- 1 x Needle nose plier.
- 1 x Wooden board with 2 notches (Fig. 1) or a similar safe distance piece.

Following new Compac spare parts is needed:

- 2 x Valve balls no.19.
- 2 x Copper washer no.18.

Fig. 1



## Replacement of valve balls:

1. The jack must be lowered to the lowest position and the jack handle must be in its normal position.
2. Grab the lifting arm (See Fig. 2) and lift the lifting arm to top position. Use similar distance piece between the wheel shaft and the lifting Arm as shown in (Fig. 3 - 3A).  
**IMPORTEN! Check that the board is stabile, so it does not slip.**

Now you have access to disassemble the cylinder and a vacuum is created in the hydraulic system. This should lead to a reduced volume of oil leaking during the repair..

Fig. 2



Fig. 3



Fig. 3A



on the cylinder (See Fig. 5).

Fig. 4

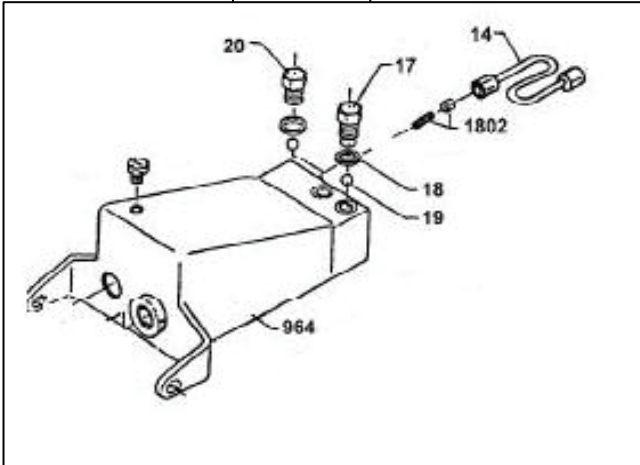
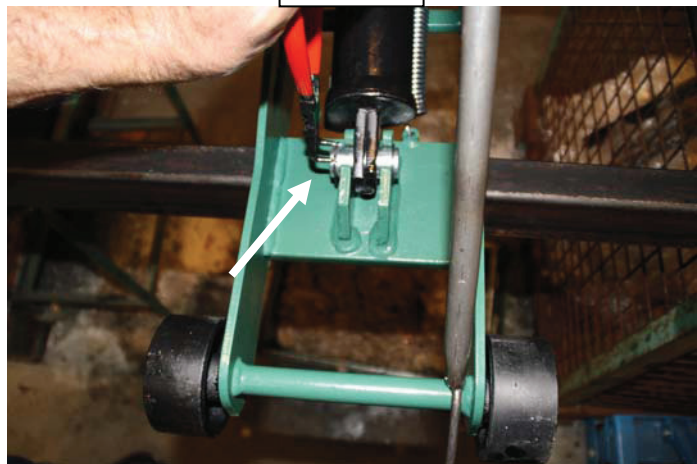


Fig. 5



4. Dismount one of the lock rings on the axle that holds the cylinder (See Fig. 6) and take out the axle.

Fig. 6



5. Dismount the pressure pipe from the cylinder by dismounting the union nut, lift the cylinder up to the lifting arm and fasten it to the lifting arm with a hook or similar. (See Fig. 7).

Fig. 7



6. Dismount the plugs (No17 and 20) and the 2 copper washers (No18), which are located at the end of the pump (See Fig. 4 / 8). Take the valve balls (No19) out with bar magnet or a screwdriver. Check that there is no dirt in the holes.
7. Take two new valve balls (No 19). Put one ball at the time in each hole with a needle nose plier.
8. Remove the two old copper washers (No 18). Mount the new ones on the plugs (No 17 and 20). Mount the plugs in the pump / the valve housing and tighten them.

The repair of the pump / the valve housing is now done.

Fig. 8



9. Release the cylinder from the lifting arm.
10. Screw the pressure pipe back on the cylinder. Do **not** tighten it now.
11. Mount the axle and the lock ring again.
12. Now tighten the pressure pipe (Tighten hard).
13. Remove the wooden board / or similar distance piece.
14. Lower the lifting arm to lowest position by turning the handle. Pump with the foot pedal until the lifting arm is in the highest position and lower it again. This is done to vent the hydraulic system, and may need to be repeated several times before all air is out of the hydraulic system.

The jack is now ready for use.