Manual to replace the CPU-fan of the Lexmark x502n

Attention: This manual refers **exclusively** to the altered fan distributed by ProCompSys! Standard-models of this fan can **not** be operated with the Lexmark x502n in this manner!

Note: Arbitrary modification on your device may void the manufacturer's warranty! In either case disconnect the device from power before opening! Voltage can remain in electronic components of a device, even if power is disconnected. If needed, consult an expert.

1. Turn device off and remove any cables from the rear side.

2. Remove the screw fixing the side-panel from the rear side.

3. Remove the side-panel by sliding it to the rear side of the device.

4. Remove the screw fixing the inner metal-side-panel.

5. Remove the metal-side-panel by sliding it to the rear side of the device.
Remove the defective fan's plug from the jack on the circuit board. The fan is fixed with 4 screws.

6. First, remove the **upper-right** and **lower-left** screws of the fan. The fan can already be fully removed at this point.
Two spacers remain attached to the circuit board. Unscrew the two other spacers from the defective fan and attach them to the new fan, just as diagonally arranged.

7. Attach the new fan back to the two spacers that remained on the circuit board using the two remaining screws.

8. Due to variation in production on behalf of Lexmark, it is not possible to equip the replacement-fan with a plug fitting all lots of this printer model. In particular cases it might be necessary to make some little adjustments.
Given the case that plug and jack do **not** fit without further ado, you have to...

(continued on next page)

either a) cut off the existing plug from the defective fan and connect/ solder it to the replacement-fan (pay attention to the polarity:

red_{new} → $black_{old}$,
$black_{new}$ → $yellow_{old}$,
$yellow_{new}$ → red_{old}!)

or b) file off the replacement-fans's plug until it fits into the jack

oder c) which appears to be the most feasible solution remove the plastc jack from the printer's circuit board, so the plug's dimensions don't interfere with the jack's housing anymore.

If a modification is necessary in your case, solution No. c) is depicted below.

If plug and jack do fit without further ado in your case, you can skip the following instructtions of this manual, that are highlighted on a yellow background.

9. The white plastic jack is glued to the circuit board and can be loosened quite easily using p. ex. a pair of long-nosed pliers.

As soon as the glued connection is loosened, pull off the white jack-housing straight forward from the three pin contacts **using slightly circular movement**.

Pay extreme attention to having powered off the printer and avoid contact of the used tool with the circuit board's components!
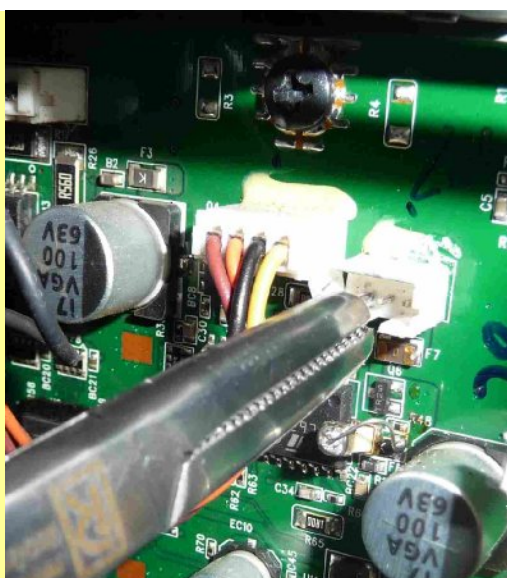
10. The replacement-fan's plug can now easily be connected to the contact pins on the circuit board. Pay attention to the correct polarity (**red wire to the left**)!

    ("Red wire to the left " also applies if you did not have to remove the white plastic jack from the circuit-board!)

    The color-sequence of the cables of the replacement-fan does not necessarily have to coincide with the color-sequence of the cables of the defective original fan!
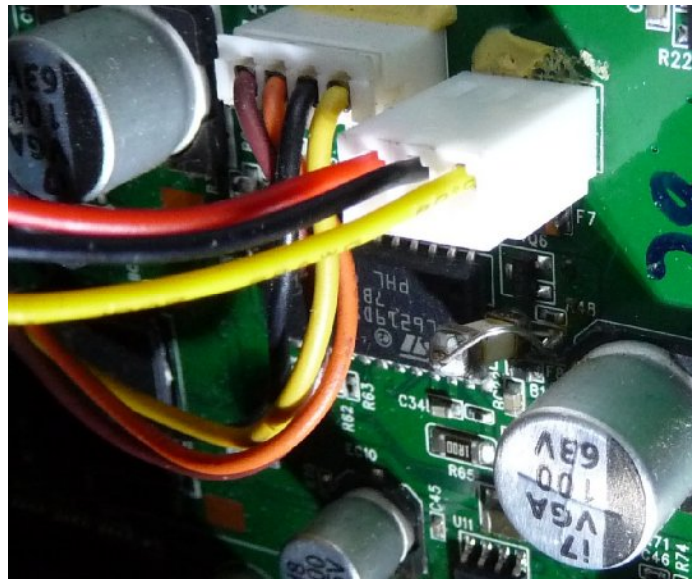
11. Tentatively connect the printer to power and switch it on, to check the new fan's function.
    The display-message *'Warning: CPU Fan is Locked*' should be gone now.
    If necessary, check the plug's snug fit.

12. Re-attach the side-panels according to steps 5, 4, 3 and 2.