



Repairing Brother Inkjet Printer "Cartridge Detect Impossible" Sensor for cartridge detection

Brother comes with the message "detect impossible" or "no cartridge" although one has just used a new cartridge sensor is dirty. This must be cleaned.

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INTRODUCTION

There are 3 sensors per color: one at the top one in the middle (level sensor) and one at the bottom, which detects if a cartridge is inserted at all.

Since it sits at the bottom, ink runs in the device carelessly or rough cartridge change and just on this sensor. If it is so heavily polluted that it is "blind", the device reports "detect impossible" or "no cartridge".

Unfortunately, you have to greatly disassemble the device for cleaning. Calculate about 3 hours for the repair.



TOOLS:

- [Kreuzschlitz P2 kleinen flachen Schraubendreher](#) (1)

Step 1 — Disassemble the device



- Open the scandal lid, remove the 3 silbs. Screws at the top and thus the operating unit. The snapped in front with noses. 2 Carefully pull off the cable. Unscrew the screws underneath, on the left pull the small cover with WLAN antenna away by lifting the round strap. Remove the flap at the bottom by pushing in the hinge.

Step 2 — Remove Scandeckel



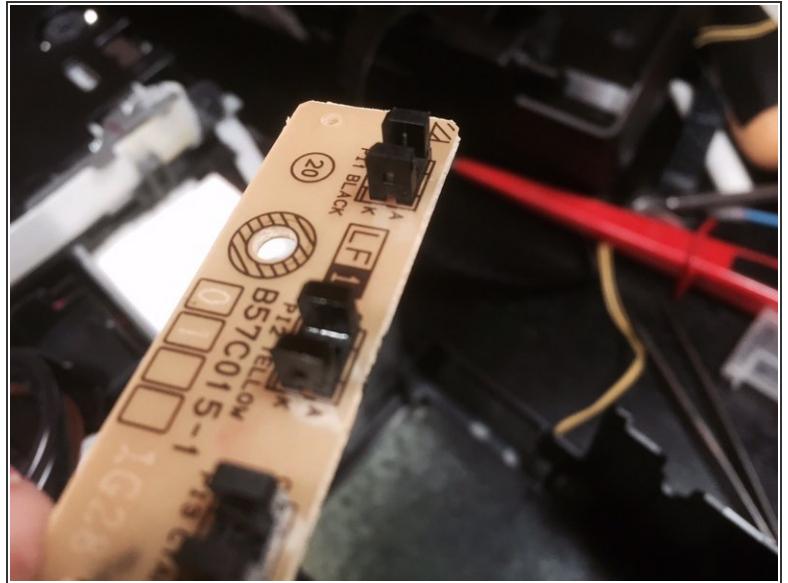
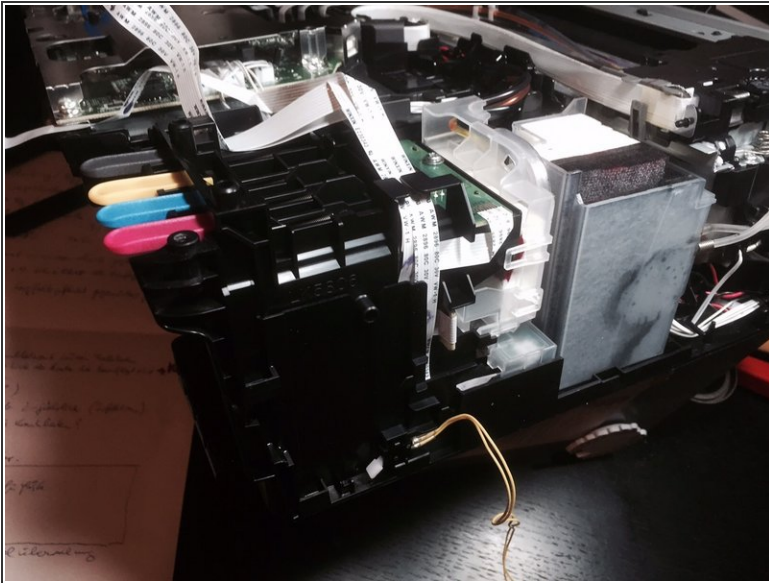
- Open scandal lid. Remove the 2 thin, horizontal plastic covers near the Usb connector, underneath are ribbon right and round cable left. Release connector carefully. They are all color coded, you can not swap them. Approximately 5 connectors are on the left and one extension cable must be loosened with a Phillips screw.
- Then you can pull the 3 round cable left out of the cable channel and expose
- On the left, leverage the lever, which serves as a cover stop, to slightly twist it (is stable) at the top. By opening the entire lid at a certain angle, you can pull out the hinge to the right without force. When the cables are exposed you can remove the entire scanner lid. That was the worst for now. Put him away

Step 3 — Remove the entire housing



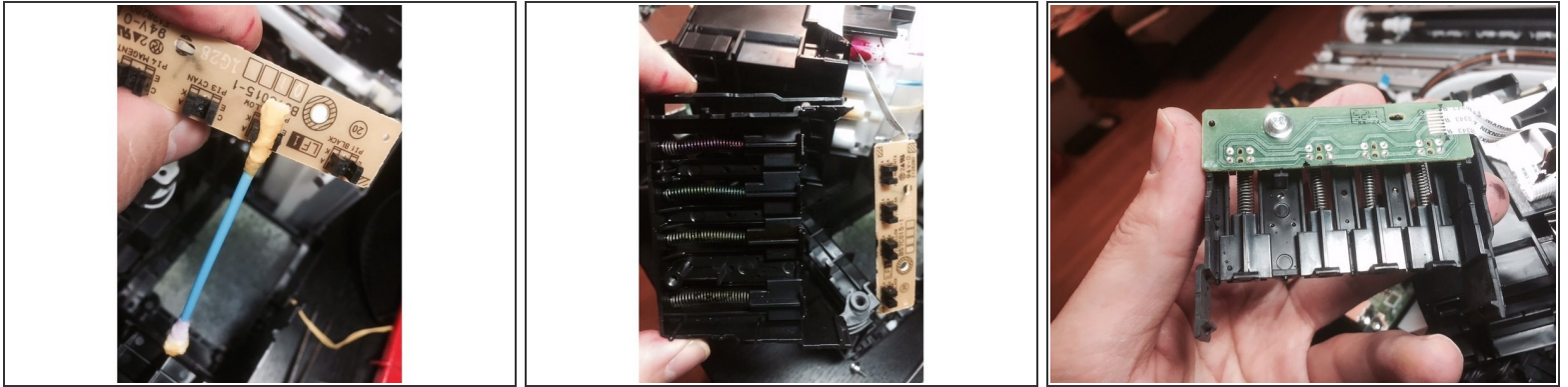
- Now remove the remaining 2 screws at the back from the top and at the front right the ink cover. The one opens completely and lever with gentle force the stopper out of the hole. If you open the lid, it falls down.
- Cartridges must be out!
- Now the housing is pulled away from above. For this you have to drive from below with a flat screwdriver around the case and lever out the noses. if a few break, that does not matter, the housing is mainly held by the screws. Do not forget to unplug the thin speaker cable on the left before removing!
- Removing the housing is a really difficult step. At first one thinks this is possible, but it loosens! If you loosen it all around, you can pull it off to the top. Beware of evt. Cables that still need to be staked out. (for example, the thin speaker cable on the left) Now the case should be removed.

Step 4 — Remove cartridge unit



- First disconnect the two very thin sensor cables from the side flap sensor. the mini-plug is slightly to the left of the cartridge unit. On the first picture you can see this with the two yellowish cables at the bottom. I have already unplugged the plug ...
- Important for the assembly later: Then mark the 3 ribbon cable with Edding top, middle bottom and gently pull out of the plug. Make this marking at the beginning and end of the ribbon cable! You can see on the picture the removed cartridge unit and the white ribbon cables very nice.
- Now you can pull out the cartridge unit upwards. It only hangs on the 4 ink tubes, which are robust. Now thread the top white ribbon cable out of the guides and remove from the bond. the lowermost plastic unit at the back, clicked on the side with 2 flat straps, to the rear / bottom.
- Be sure to note the location of the inconspicuous but important drip foam rubber, which sits directly under the white round mouths. it will fly out if you click the plastic unit as described above.
- Now you hold the bottom of the 3 Sensoreihen and the culprit in the hand! Each of the 3 white ribbon cables goes to a cartridge sensor (level, etc.). The lowest (flat elongated board) is your goal! On the second photo you can see them. In the penultimate inside right, the sensor is dirty with Tine!

Step 5 — Clean the sensor unit



- Take as in the first picture a cotton swab, press it flat with a pair of flat-nose pliers and moisten it well with water. Now unscrew the sensor board with the one silver screw from the plastic part and examine the 4 light barriers with the magnifying glass. You will recognize in the color he no longer recognized a gross pollution! See image!
- What a feeling of happiness that discovered !! Enjoy it.... In the second picture you can see the sensor board to be cleaned, it just depends on the flat cable. On the left you can see the still dirty (later to be cleaned) spring unit with the sliders, which plug into the light barriers as soon as a cartridge is inserted.
- Now, with the wet flat cotton swab, thoroughly clean the inside of the light barrier. Only inside counts for the function. you'll need a lot of cotton buds as the color is rich Finally, dry with a clean cotton swab and reinsert.
- Clean the entire underside of the cartridge unit beforehand, it is worthwhile, as color residues always accumulate. Of course, also check the photocells of the other colors that were still going, preferably with clean, that prevents!
- FINISHED!!!! You are the biggest! If you look into the cartridge slot from the inside, you will see 4 sliders at the bottom.
- These are sprung and are pushed back when inserting the cartridge. Inside a plastic nose is driven into the light barrier to report: cartridge is in it! Remove this unit and clean it under running water. See pictures before-after.

Step 6 — Reinstall the cartridge unit - done!



- Now screw the sensor board back with the one screw, put the dripping foam rubber with the 4 fingers (one for each color) again horizontally from the back directly under the 4 white round Tinteneinfüllmünder. He is held by the fingers of the transparent plastic part, which you now snaps together with the board.
- And now assemble everything backwards exactly. Make sure you carefully put all the small plugs back on and screw the end screw back in from the scanner unit. Possibly. is a control with a magnifier helpful!
- Control. is there any left over? Think about which step you forgot. Only at the very end insert the ink cover, insert the paper tray and switch on without cartridges. Then insert the cartridges according to the order in the display.
- Then he will accept everyone. Now about 3-4 times perform an ink cleaning, so that all air is out of the hoses. Then the head adjustment (same menu equal to one point below) make it a great and sharp print image has. Now celebrate yourself !! Great success!

Repeat the steps in order to reassemble your device.