Philips steam ironing station GC9640 solenoid valve coil replacement

The steam ironing station will no longer release steam. The solenoid valve coil must be replaced.

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INTRODUCTION

If the steam ironing station makes heating noises (boiling water) but does not produce any steam, it may be due to a faulty solenoid valve coil. The price of the valve was 40 € in September 2018 plus shipping. Unfortunately I could not receive the coil individually.

TOOLS:

- Multimeter (1)
- Gabelschlüssel (1)
- New Item (1)
- New Item (1)

PARTS:

- New Item (1)

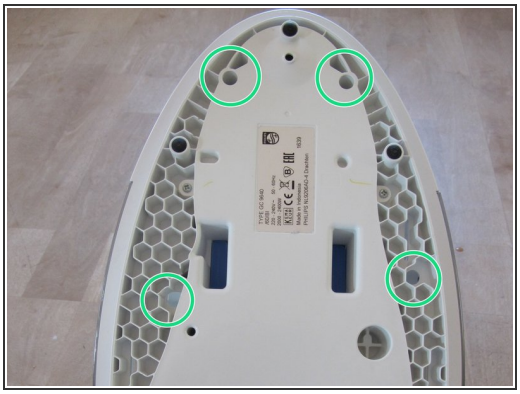
Step 1 — Preparation

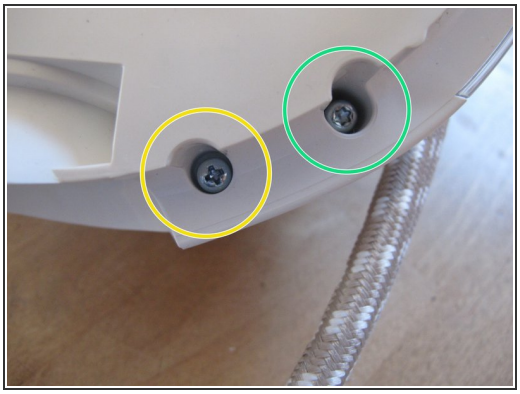
- Pull out the plug. If necessary, allow the device to cool down for 10 minutes. Remove the water tank. Place the iron on a suitable surface.

Step 2 — Empty the steam boiler

- Place a suitable container to catch the water.
- Unscrew the stopper plug counterclockwise and set it aside.

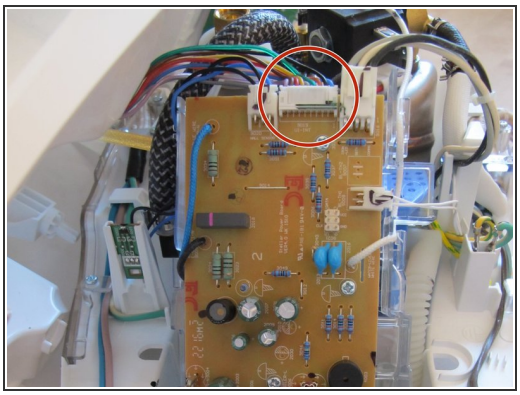
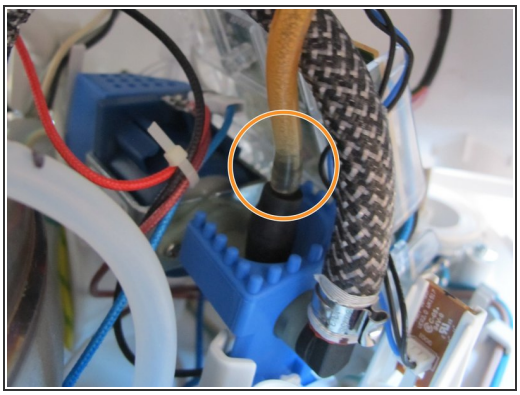
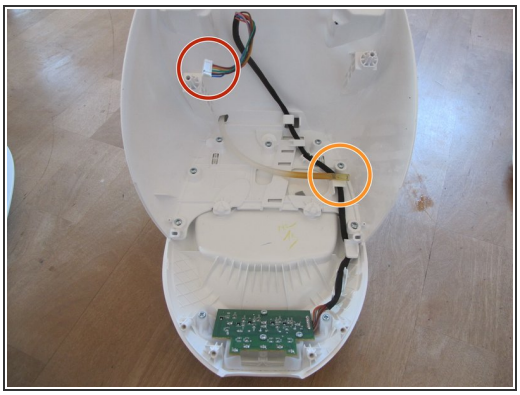
Step 3 — Remove the bottom of the device





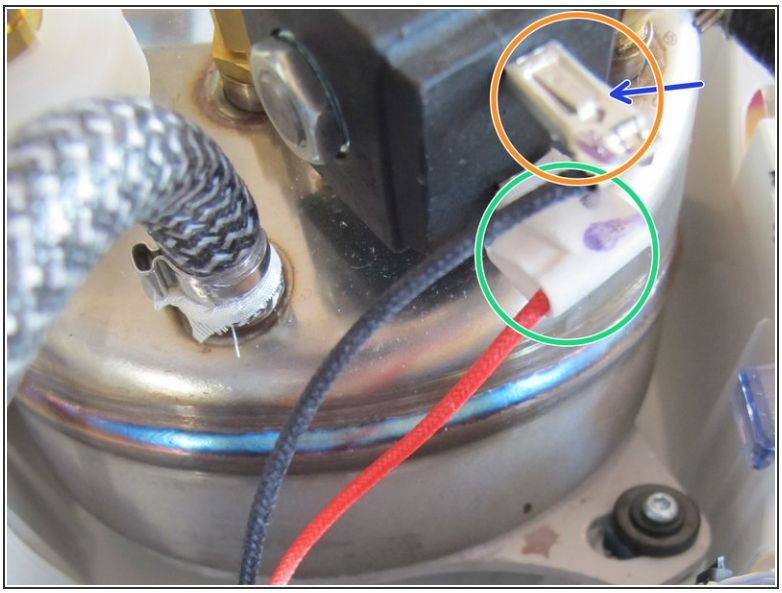
- Turn the device upside down.
- Use a long screwdriver to remove 6 Torx # 15 screws
- Remove 2 screws with a Philips # 1 screwdriver

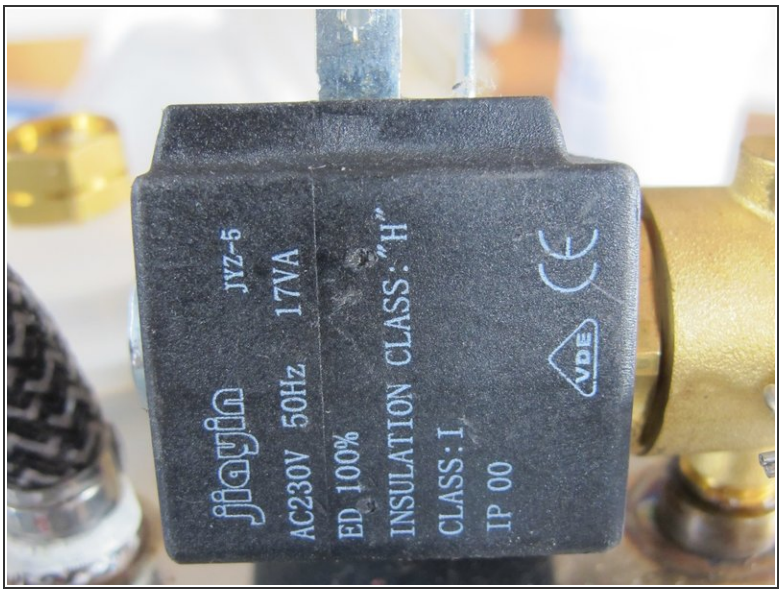
Step 4 — Open device

- Place the unit with the bottom facing downwards. Carefully lift the upper part.
- The keyboard in the upper part is connected by a cable harness to the motherboard. Grab the corresponding plug on both sides and remove them carefully.
- Remove the clear hose between the water tank and the pump on the pump side. To do this, grasp under the lower edge of the hose and pull up with bending or rotating movements.
- The upper part can now be put aside.

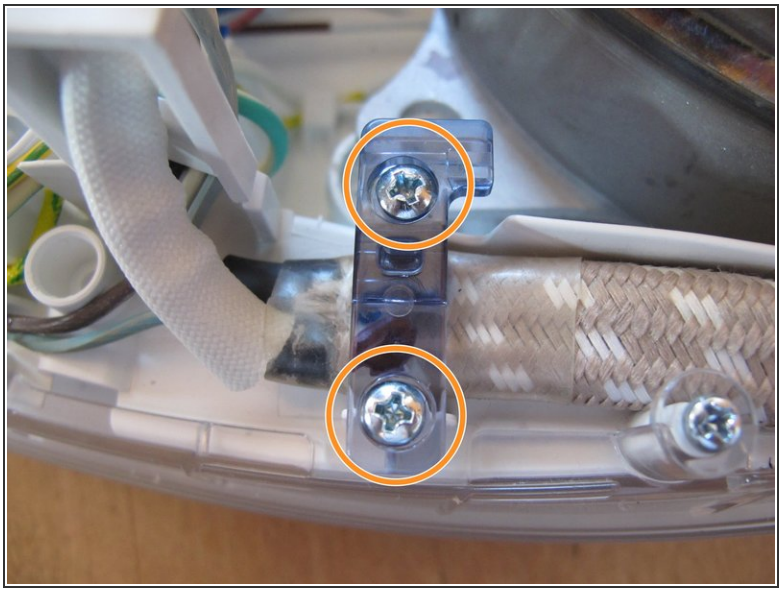
Step 5 — Measuring the solenoid valve coils resistance

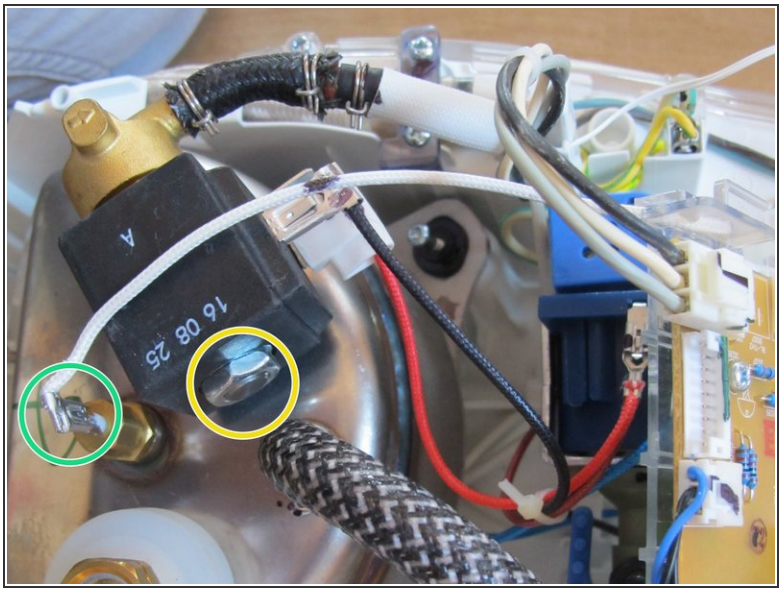




- Remove the rubber protection cap from the cable lug of the conductor.
- Disconnect both cables from the spool. To do this, use a pointed object (eg a small screwdriver) to push the lock of the cable lug outwards, and at the same time pulling the cable lug away from the valve.
- Use a multimeter to measure the resistance between the two contacts. It should (at least briefly) be at 30 ohms. If the resistance is infinite, the coil is defective and needs to be replaced.
- I could not get the coil individually. The complete valve was available here: https://shop.euras.com/detailsseite_ma.p... In the comments Maxim is showing a reasonable priced source.

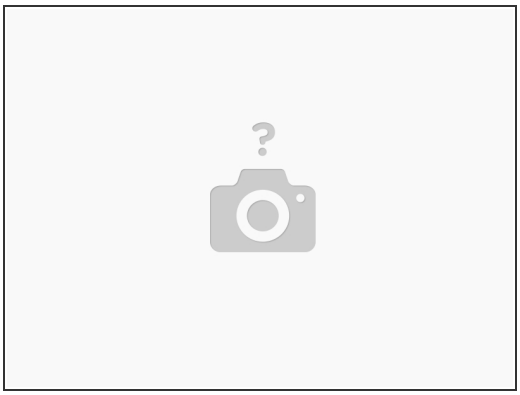
Step 6 — Removing the solenoid coil





- In order to disassemble the coil the valve must be turned approximately 30° counterclockwise. Replacing the whole valve doesn't make a lot of sense here, because the pressure hoses are partly glued together or are fixed in place with clamping rings.
- Remove 2 Phillips screws #1 to give the hose connected to the iron more play.
- Pull off the cable lug of the heat sensor, while pushing the pawl outwards.
- Grab the whole valve and turn it counterclockwise until the coil is able to squeeze past the black pressure hose. You may need pliers.
- Open the fixing nut turning a wrench counterclockwise and pull off the coil.

Step 7 — Assembly



- Assembly is done by following the steps in reverse order.

To reassemble your device, follow these instructions in reverse order.

