



FAKIR 1800 ECO

When the Vacuum cleaner does only run on maximum speed or zero it could be a damaged TRIAC.

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INTRODUCTION

When the motor does not work, or only at FULL power, the triac is blown.

TOOLS:

- [Soldering Iron](#) (1)
- [Solder](#) (1)
- [Power Drill](#) (1)
- [Desoldering Pump](#) (1)
- [Phillips #2 Screwdriver](#) (1)

Step 1 — Fakir 1800 Eco Triac - Thyristor



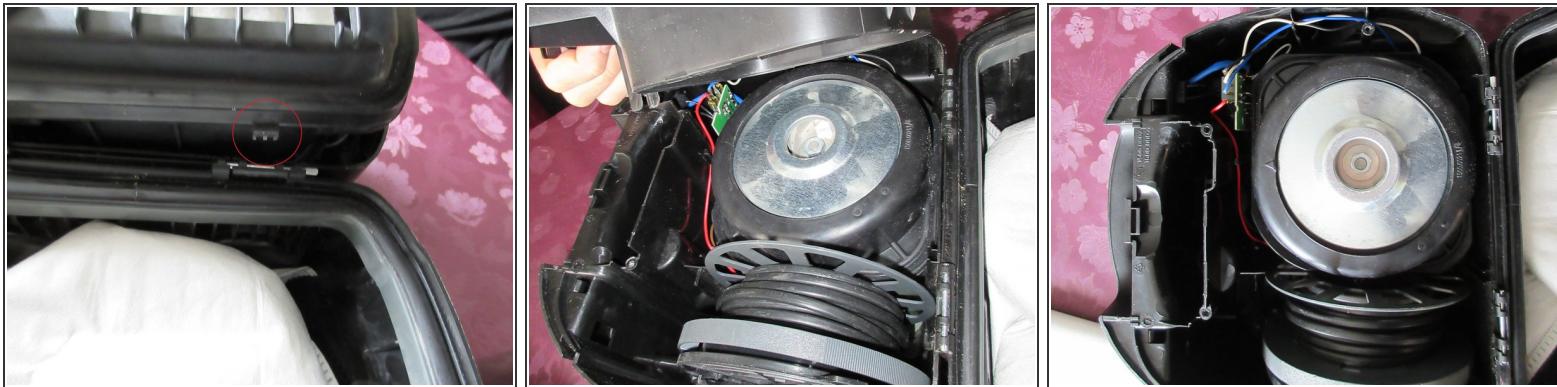
- First pull the plug and roll on the Cable. Unplug the vacuumhose. Open the machine
- There are four PH2 Screws.
- These screws all have the same length.

Step 2



- Detail of screw
- Pull, it knacks
- Look there is a clips, on the other side is a second clips

Step 3



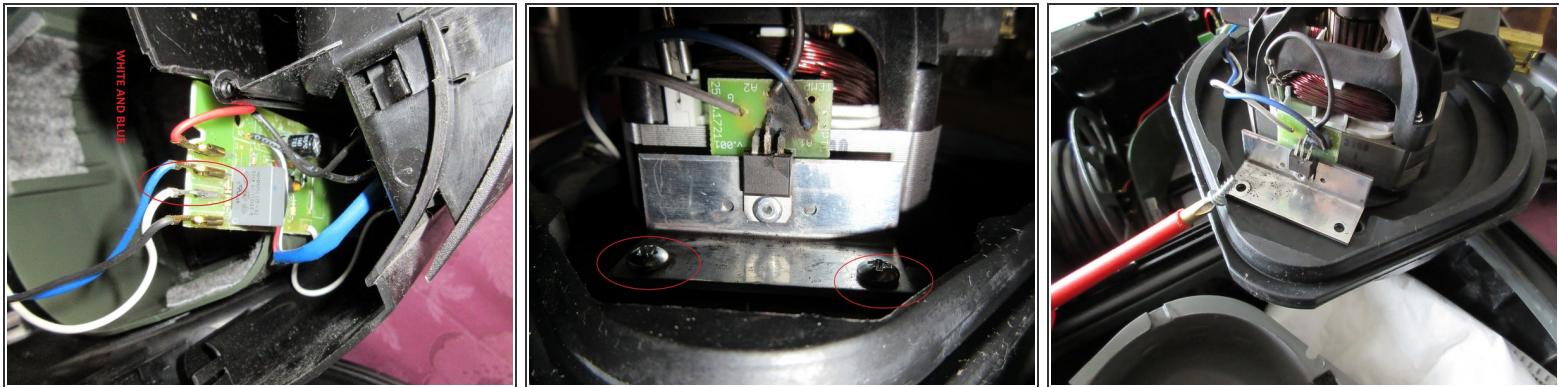
- Look, there is the second clips from STEP 2
- PULL.
- Open. Look, the white cable and the blue cable you have to remove there.
- Blue cable and white cable have DIFFERENT SIZE OF PLUGS. it only fits right. ;)

Step 4



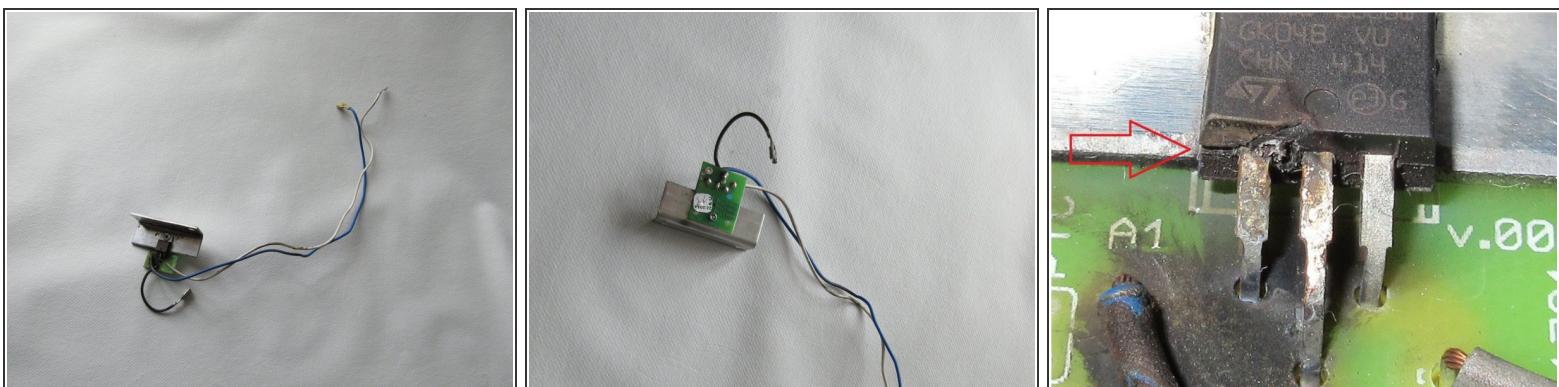
- PULL the turbine,it has a stuck rubber case. Just PULL.
- Then again, just pull, the grey Plasticpart. Look at the filters, they have to face eachother when you reasembel it !!! Marked in GREEN circles
- Look at red circle, there is a notch, there is where the White cable, the blue cable and the black cable go through the housing.

Step 5



- Detail of white cable and blue cable. The plugs have a small springholder, you must push and then pull off !!
- The plugs have different sizes.
- Unplug the short black cable at the motor. The plug has again a spring which should be pushed, then pull off the black cable.

Step 6



- there you have it. The destroyed burnt TRIAC with cables and aluminium-cooling.
- This one broke at the housing, look at the red arrow. The pins are bent directly at the housing, so this destruction occurred at the mounting of the triac ! bad. :(The current let it explode and damaged it completely.
- cables look ok, platin is ok too. It looks burnt, but this is only black smoke.
- Now we have to drill out that part...

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Step 7



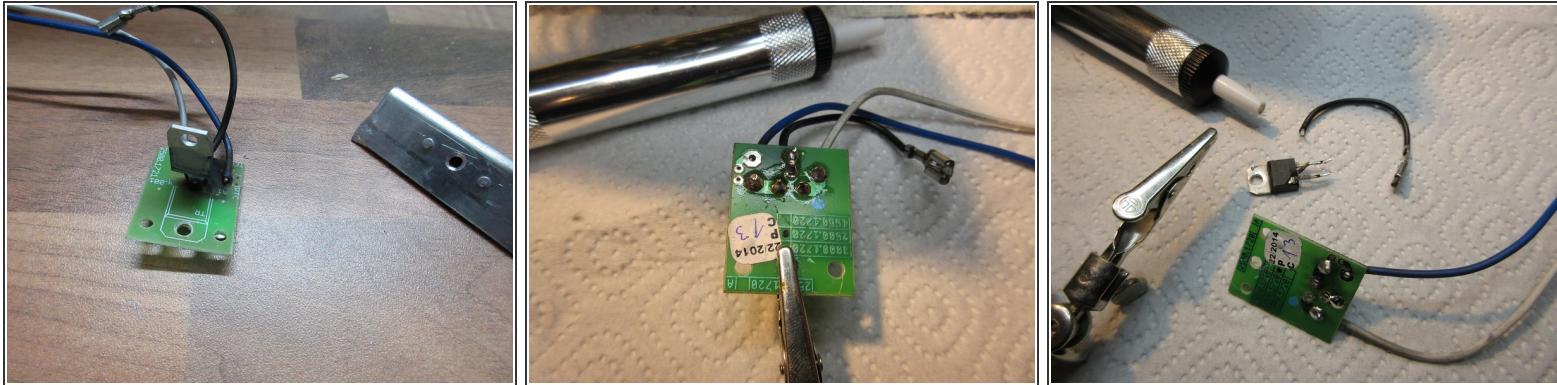
- first take a 4 mm Drill.
- Carefully make that part.

Step 8



- then pull the dead TRIAC up.
- then you drill with 3 mm to get through the platine.
- there you have it, all parts separated. :)

Step 9



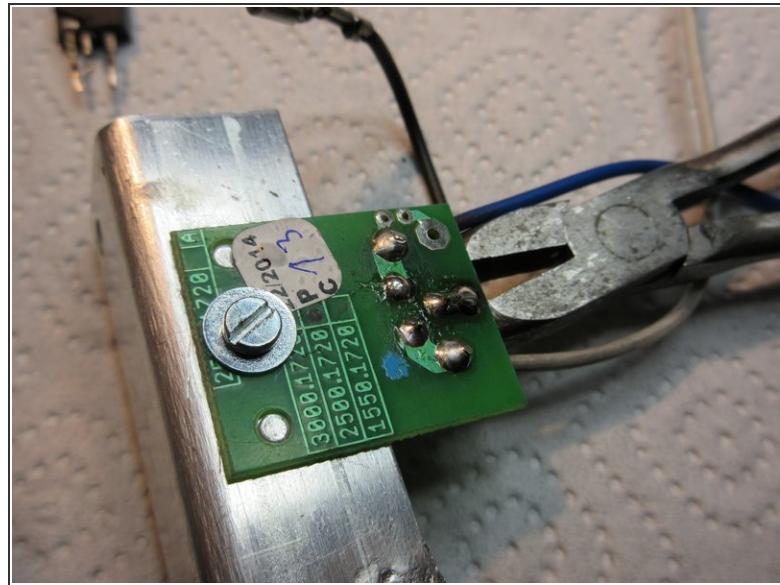
- now desolder it. The platine has two holes which fit on the aluminium-cooler.
- No problem with desoldering pump.

Step 10



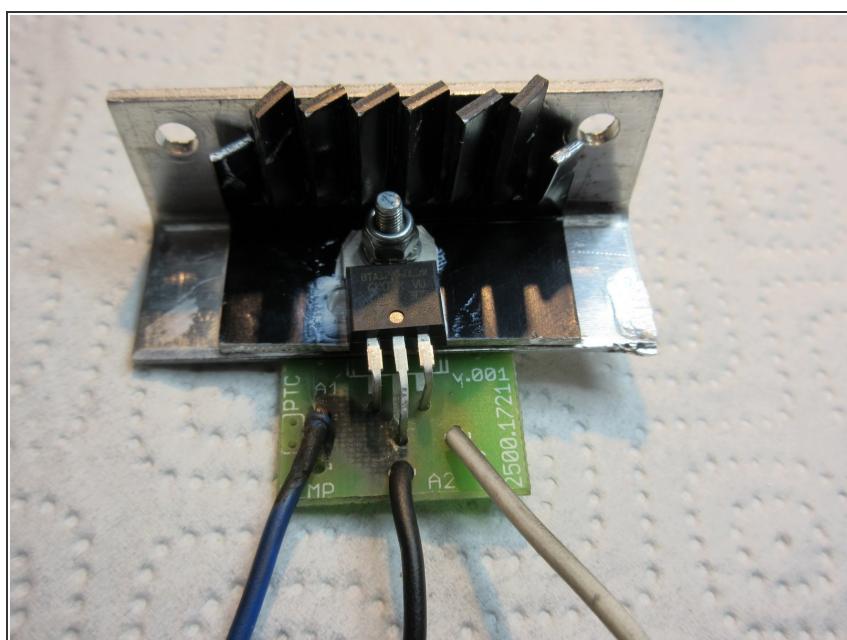
- the new one.
- follow the steps like on the pictures, i can't explain it, sorry. Like on the pictures, you can see, do it too.

Step 11



- take some thermal componund. Only a very little amount.
- take M3 screw, M3 washer and mount it to the aluminium-part.
- solder the new part after the mechanical stress.

Step 12



- i made a cooling upgrade, you dont need to make this too because this is a DIY modification which is not really neccessary. XD

Step 13



- NOW REASSEMBLING
- put it back, then you need the two SHORT ph2 screws.
- Take care of the distance between the parts as shown on the third picture, i marked it with two red lines.

Step 14



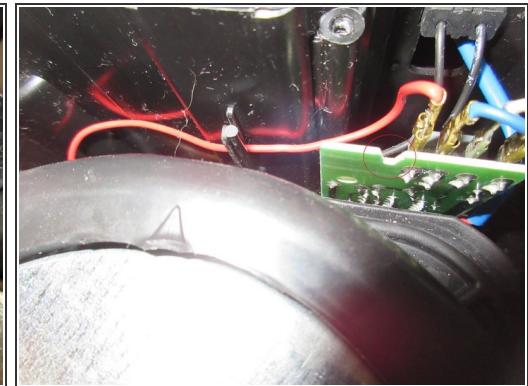
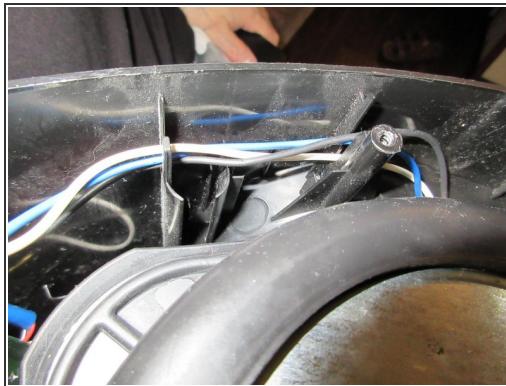
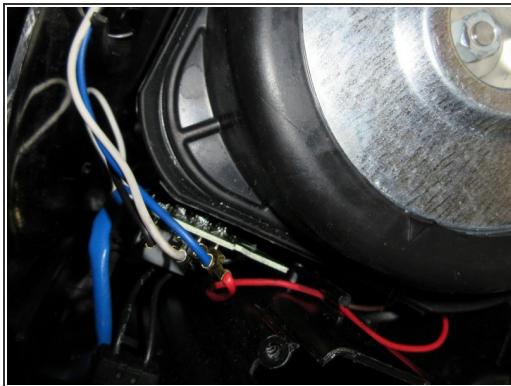
- then put the white and the blue cable in place, there is also a second long black cable.
- Look at the notch, it must fit right.
- take care of the right fit of the filters there.

Step 15



- Detail of the filter in the housing

Step 16



- Detail of the cables.
- There are notches to hold the cables.
- Lokk, there is a big notch in the platine of the third picture. RED CIRCLE. In this notch grips a latch of the housing when you close that part. Look at Steps 1 to 4 to see where you must take care of latches and notches and clipse.

Step 17



- Only when all parts fit equal together, all latches and notches and clips fit together and you firmly push down the housing, you can carefully screw in the 4 longer screws.
- Test, function, done, now a Jägermeister.
- :D
- Only a few words, sorry, my english is bad, but i hope the pictures may help you.

Arbeite die Schritte in umgekehrter Reihenfolge ab, um dein Gerät wieder zusammenzubauen.