Philips Kettle HD4685 Capacitors Replacement

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INTRODUCTION

I found the instructions partly at this pages and decided to upload the completely new here:

http://www.brunwinkel.de/2011/09/wasserk... (german)

http://forum.electronicwerkstatt.de/phpB... (german)

https://www.rojtberg.net/645/repairing-p... (english)

TOOLS:

- T8 Torx Screwdriver (1)
- T9 Torx Screwdriver (1)
- Flathead Screwdriver (1)

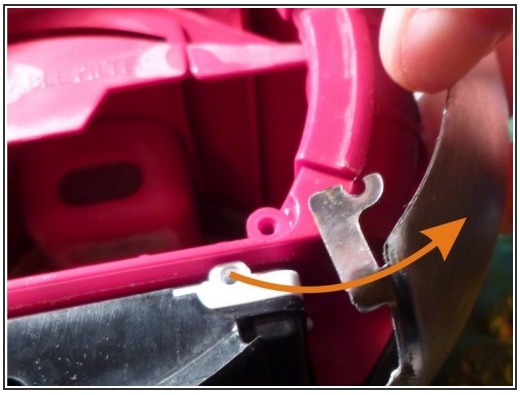
PARTS:

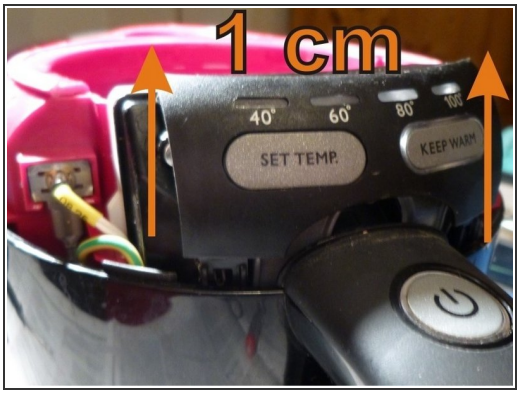
- MKP X2 Capacitor (26.5 x 10 x 19 mm), 0.47 uF 275 VAC (1)
- Yageo Standard-Capacitor SE016M0470B3F-0811 Radial (8 mm x 12 mm), 3.5 mm 470 uF 16 V (1)

Step 1 — Capacitors

- Remove top lid
- Unscrew 5x Torx (T8)
- Remove red cover
- Remember position of metallic bracket

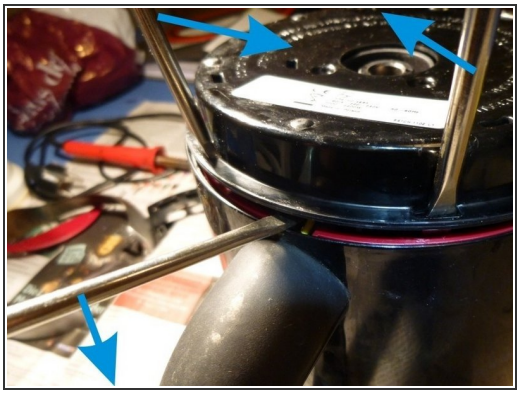
Step 2

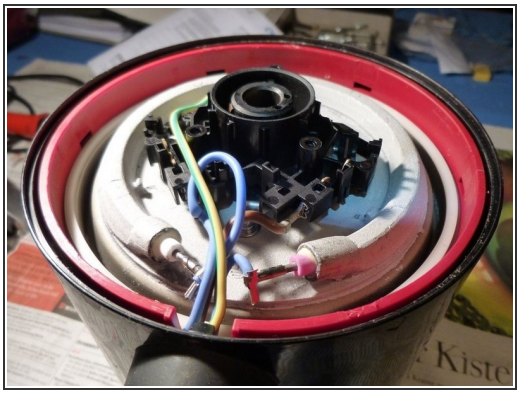




- Carefully remove metallic strip
- llift-up the entire black electric carrying unit carefully about 1 cm
- Un-click the fix of the black front cover and remove

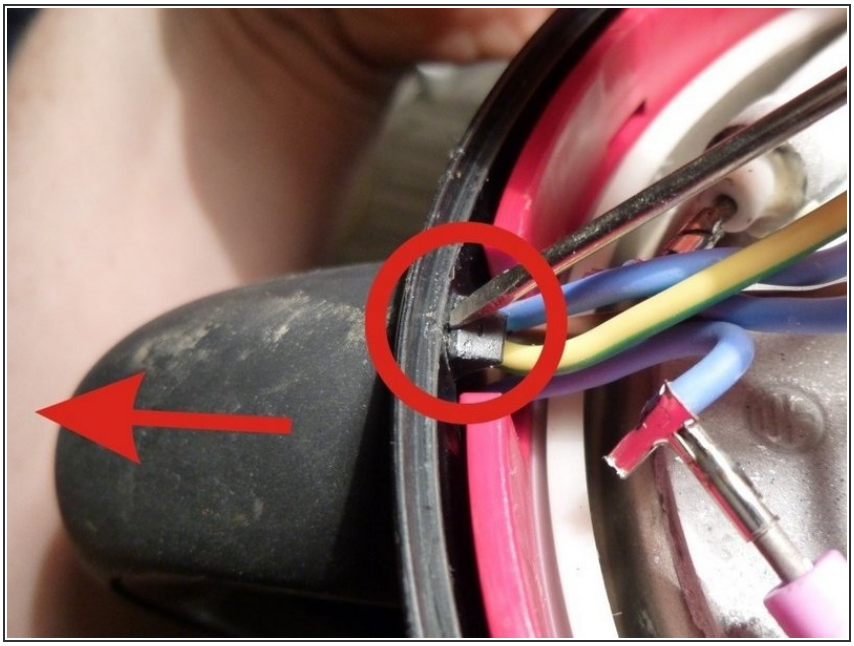
Step 3





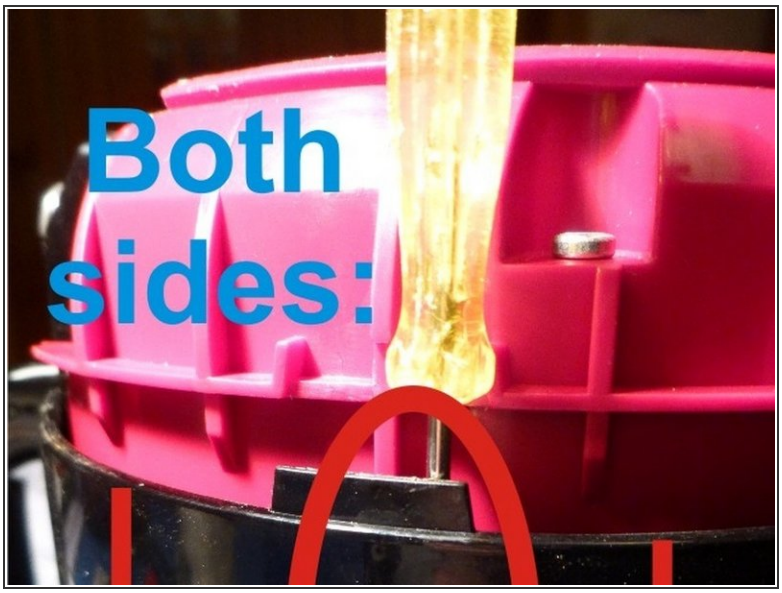
- Unscrew 3 Torx T8 at the bottom of the kettle
- take 3 big flat screwdriver to 3 of the 6 holes and gently apply pressure directed to the middle to unlock the bottom cover
- in parallel: with a 3rd screwdriver lift the cover by help of the occuring slit at the side
- bottom cover should be revomed with gently force

Step 4



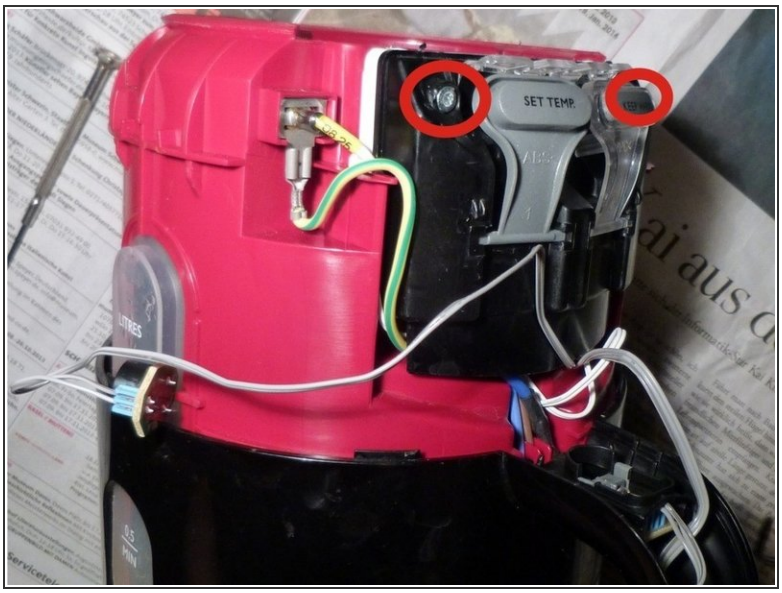
- Un-click the small mount to remove one half of the grip
- un-fix carefully the hole half of the grip at the top of it and remove it
- Don't demage the cables inside the grip

Step 5



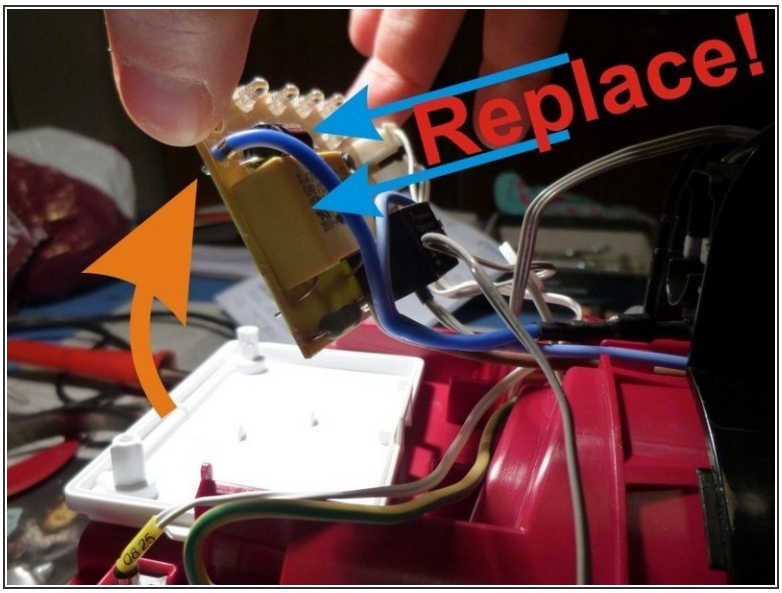
- take a small screwdriver
- push the black cover around the kettle over the transparent 'litre scale"
- make it at both side of the kettle
- pull the black cattle carefulle to the bottom of the kettle
- stop, when you can see the full electric carrying unit (see also next step)

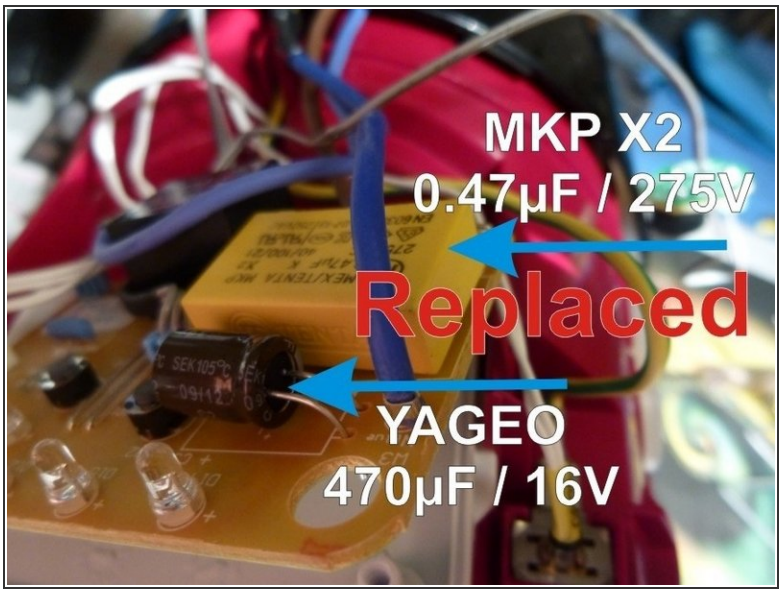
Step 6



- Unscrew the two Torx T8 to open the electric carrying unit to a half
- unlock carefully the white rectacgular clip to release the black cover completely

Step 7





- Lift the electric unit
- change the two marked capacitors by unsoldering the old ones
- yellow 'MKP X2 0.47µF / 275V'
- black '470µF / 16V' - check polarity: white stripe of the minus has to be located near the yellow capacitor!

Step 8

- Assemble the kettle in reverse manner and check at the end that you don't have any parts over
- ENJOY YOUR WORKING KETTLE!
- Now it should heat up to 100°C and make 'beep' at the end again

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