



# Philips Sonicare DiamondClean HX9340 Battery Replacement

The toughest part with this task is the...

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## INTRODUCTION

The toughest part with this task is the separation of the outer shell and the inner workings. The two tabs that hold it together are hard to locate and separate. They do require a lot of force to actually get separated.

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### TOOLS:

Soldering Iron (1)  
Slip Joint Pliers (1)  
Flathead 3/32" or 2.5 mm Screwdriver (1)  
*Or other prying device.*  
Desoldering Braid (1)  
Lead-Free Solder (1)

### PARTS:

Sonicare Flexcare / Flexcare+ / Healthy White / DiamondClean Battery (1)

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## Step 1 — Battery



- Here is the Philips Sonicare handle HX9340 that no longer holds a charge
- This is the bottom endcap that requires removal.
- A few layers of cardboard gets wrapped around the handle to protect it from any marring or other damage.

## Step 2



- BEFORE trying with tools, it is possible to get the cap off as well as the inner part of the toothbrush without any tools. This will not damage the toothbrush; actually it will possibly save the toothbrush from being marred.
- Simply push the metal head at the top of the toothbrush downwards into a hard surface with some force and the bottom cap and the inner part will pop out by itself.
- This works on both old and new Sonicare models.
- If this worked for you, simply skip Steps 3–6.

### Step 3



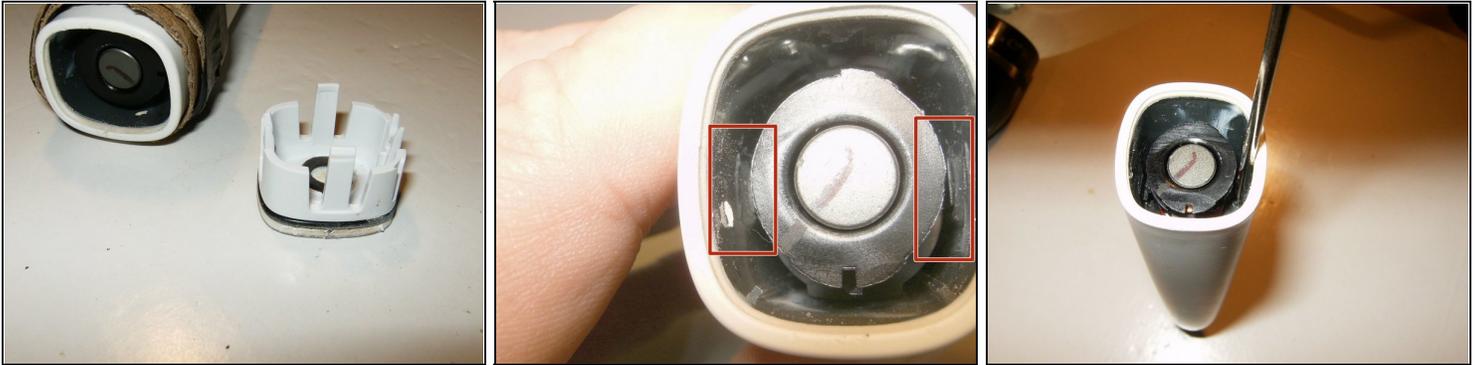
- Using a pair of pliers to apply some pressure round the handle. The best place to start is the wider part of the rectangular base and about 1/2" to 3/4" from the bottom
- Continue to apply pressures around the whole base of the the handle moving to each side of the rectangular base.
- It may take a few complete rotations to finally open up the gap between base and handle.

### Step 4



- Once the gap opens up, utilize a small flathead screwdriver to insert it into the gap to widen it.
- Endcap coming out of the handle. Once the gasket will become completely visible
- the endcap can be removed.

## Step 5



- Here is the endcap showing the tabs that hold it securely in place once inserted
- There will be two plastic tabs that hold the inner workings to the outside handle. These are hard to reach and not easy to see.
- Using a long small flathead screwdriver (or similar tool) to find those tabs is the difficult part on this job.

## Step 6



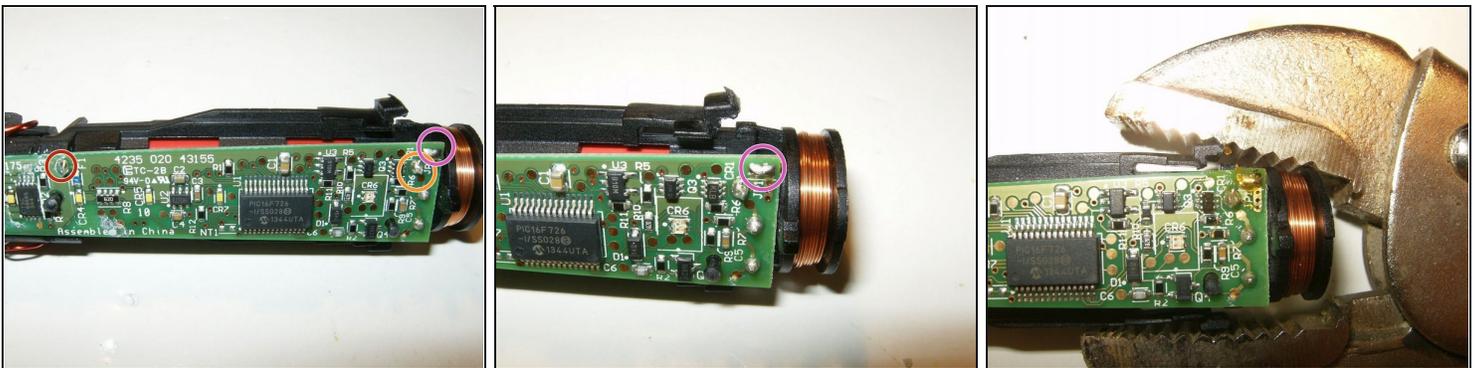
- Once the tabs have been properly located, insert one tool on each side to loosen compress the base and apply downward pressure on the outer handle. For this the top end of the handle needs to rest against a solid base. It does require a considerable amount of downward force to accomplish this.
- With the tabs loosened and the handle pushed downward, the inner workings of the toothbrush will loosen and pop out of the handle.
- Remove the mechanics out of the handle.

## Step 7



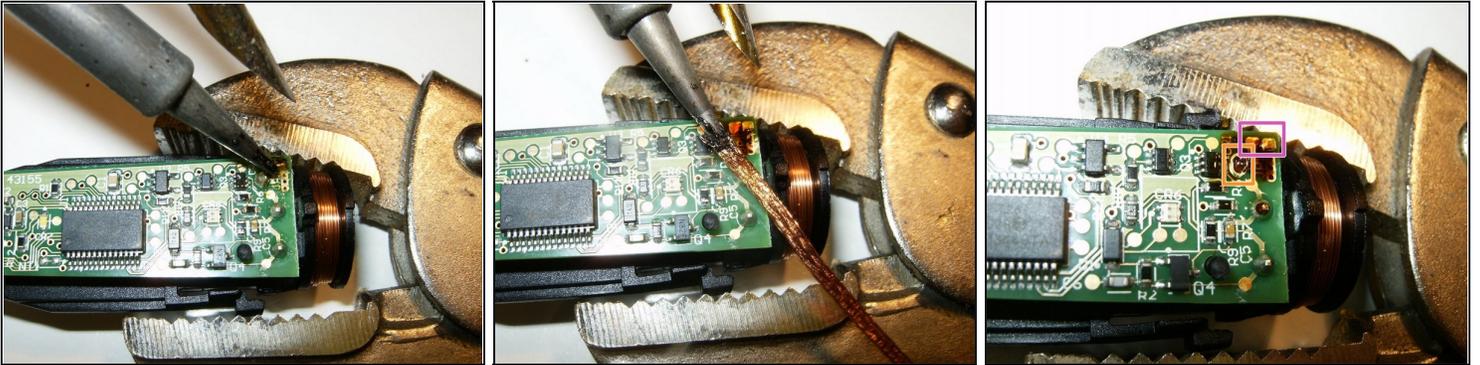
- Remove the rubber protectors from the PCB side
- as well as the battery.
- Here is the battery to be replaced. Sanyo part number 4235 010 13068

## Step 8



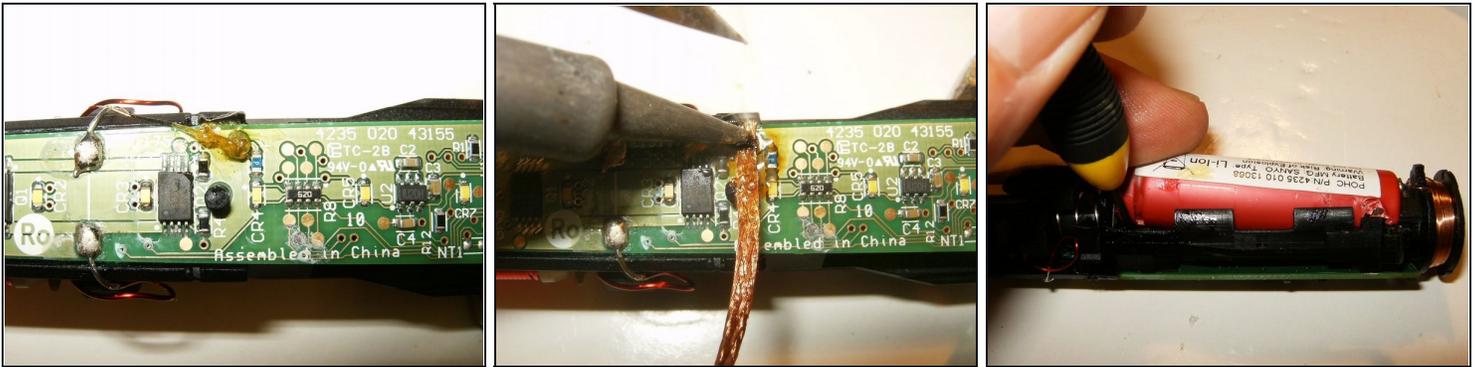
- There are three places that will have to be desoldered.
  - Positive battery contact
  - Negative battery contact
  - and a jumper
- For the jumper the only thing required is to remove the solder between the pads.
- Apply some flux to the jumper. The pliers will help to stabilize the PCB during soldering. any other means to hold it steady can be used.

## Step 9



- Using a soldering iron, remove the solder bridge between the jumper pads.
- Using flux and desoldering braid remove the solder from the negative tab of the battery.
- Solder bridge from jumper cleaned
- Negative battery tab unsoldered from PCB

## Step 10



- Apply flux to the positive contact of the battery on the PCB (Incidental finding is a SMD fuse F1 on this PCB)
- Using desoldering braid unsolder the positive contact from the PCB.
- Apply some gentle pressure with a small tool to remove the battery.

⚠ The battery should remove easily. If it does not, double check the battery contacts on the PCB to ensure they are not still connected somewhere. Another going over with the soldering iron may be required to complete that task.

## Step 11



- Battery removed from the PCB and the solder pads on the PCB are now clearly visible
  - In an attempt to determine the type of battery the red plastic covering was removed. The battery is a 3.7V lithium-ion battery that measures approximately (rounded) 14mmX49mm. Roughly the size of a AA battery.
- ⓘ The groove on the battery is always on the positive end of the battery.

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