



Solio Xcellerator and Hub Battery Pack Solar Panel Replacement

This guide covers the replacement of an unusable solar panel for your Solio Xcellerator and Hub Battery Pack Solar Panel.

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INTRODUCTION

This guide covers how to disassemble the solar panel portion of the Solio Xcellerator and Hub Battery Pack Solar Panel for both a complete removal and a replacement of the solar panel in a step-by-step instruction.



TOOLS:

- [iFixit Opening Picks \(Set of 6\)](#) (15)
 - [Evo-Stick Serious Glue](#) (1)
 - [Phillips #00 Screwdriver](#) (1)
 - [Flush Cutter](#) (1)
 - [Soldering Workstation](#) (1)
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Step 1 — Solar Panel



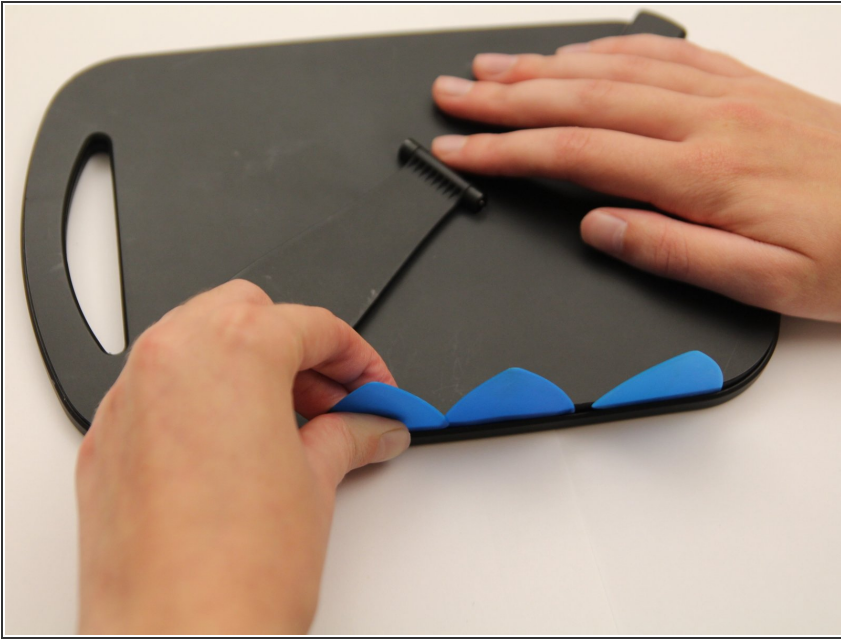
- With all cables unplugged, place the solar panel on a sturdy surface.

Step 2



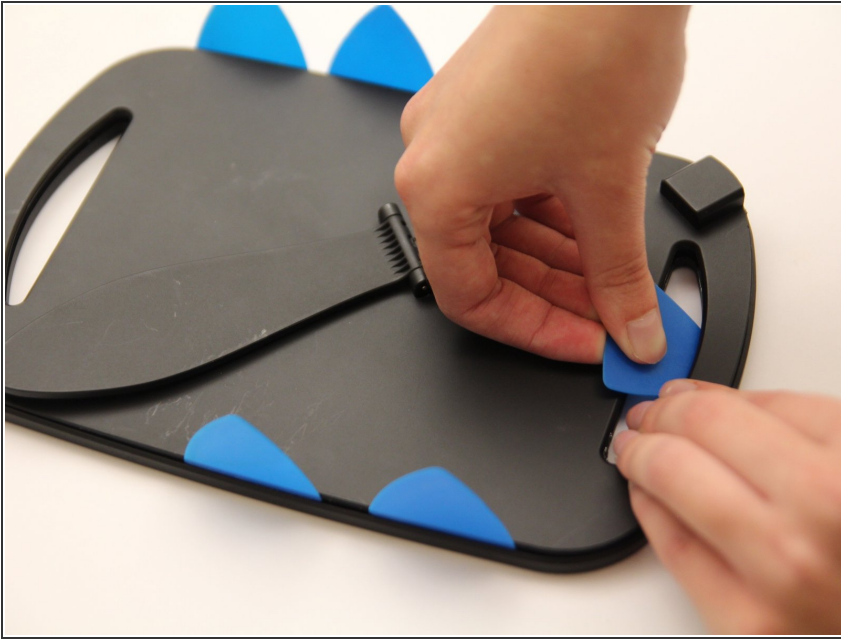
- Flip the solar panel over so that the side with the stand is facing up.
- The next part will entail removing the plastic panel so that we can see the inside of this device.

Step 3



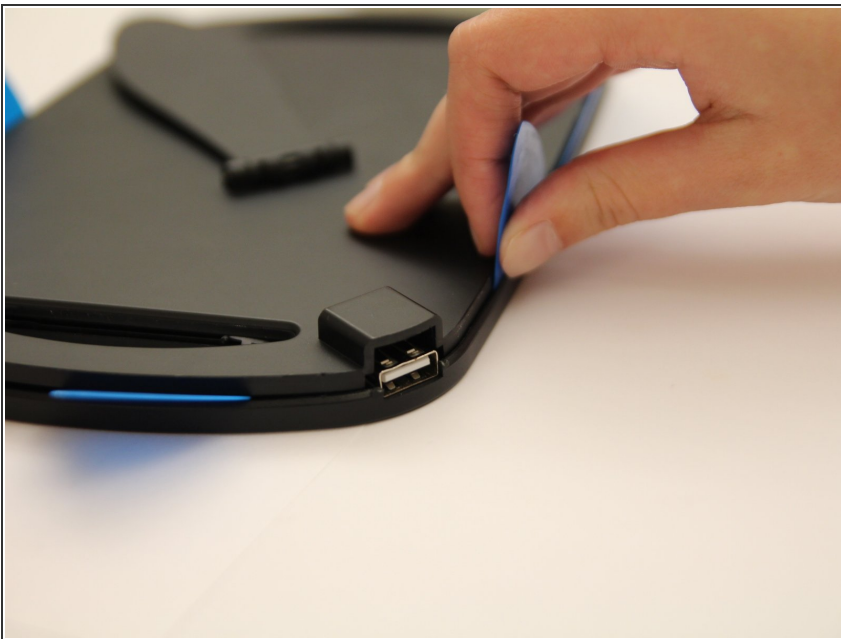
- ① There are many clips inside the device holding the plastic panel in place. To remove them you must slide your [iFixit Opening Picks](#) along the edges of the panel to either break or loosen the clips.
- This may take a lot of effort, as the panel is held in extremely tight. Do not be afraid to use force.

Step 4



- Keep on sliding [iFixit Opening Picks](#) into the edges of the panel without removing the ones already in place. The panel may reattach if the clips are not completely broken.
- ⓘ Also slide the [iFixit Opening Picks](#) between the interior edges of the handles, as the clips are inside as well.

Step 5



- Once enough of the clips are broken, the panel will start to pop off.

Step 6



- After enough of the clips around the plastic panel are broken, lift it off of the device.
- ⓘ There may still be some clips holding on to the panel, so do not be afraid to use force to pull the panel off.

Step 7



- Once removed, please place the plastic panel to the side.

Step 8



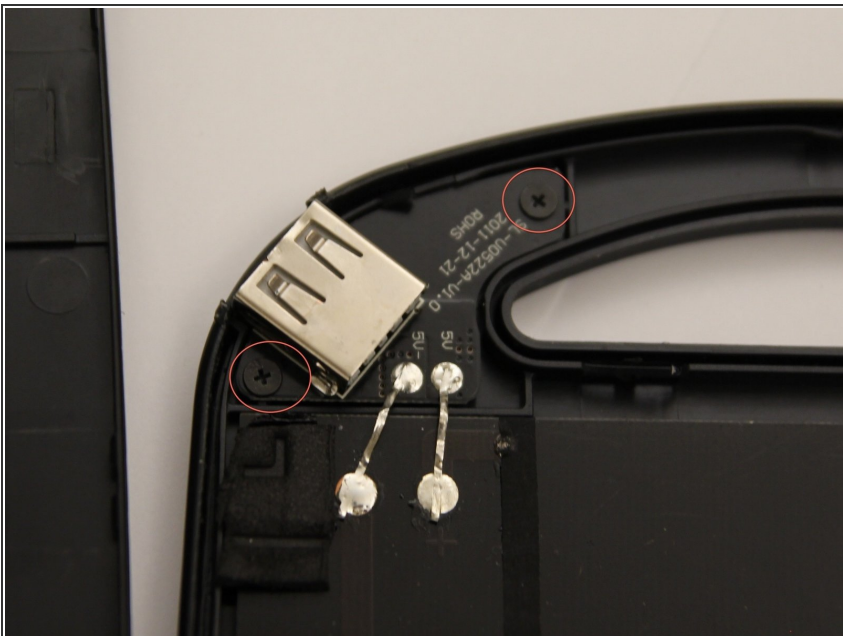
- ★ Here is an example of a broken clip to remove the panel.

Step 9



⚠ The only thing holding the solar panel in place now is gravity, so make sure not to flip the device over! This may damage the connections.

Step 10



- Unscrew the circuit board that holds the USB port in place.

Step 11



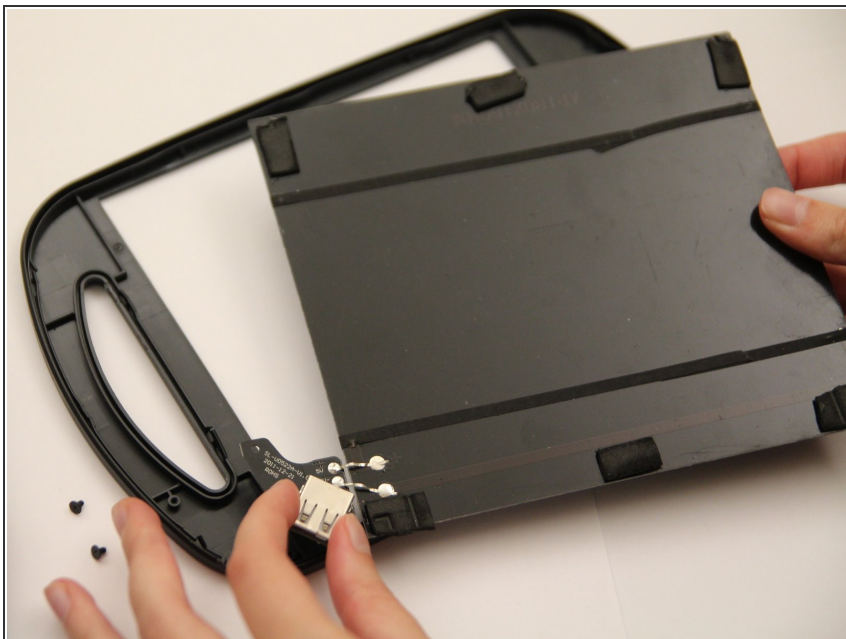
- Take the [Phillips # 00 Screwdriver](#) and begin to unscrew the two black screws.

Step 12



- ❗ Once the screws are removed, place them on the side. Be careful not to lose them as they are very small.

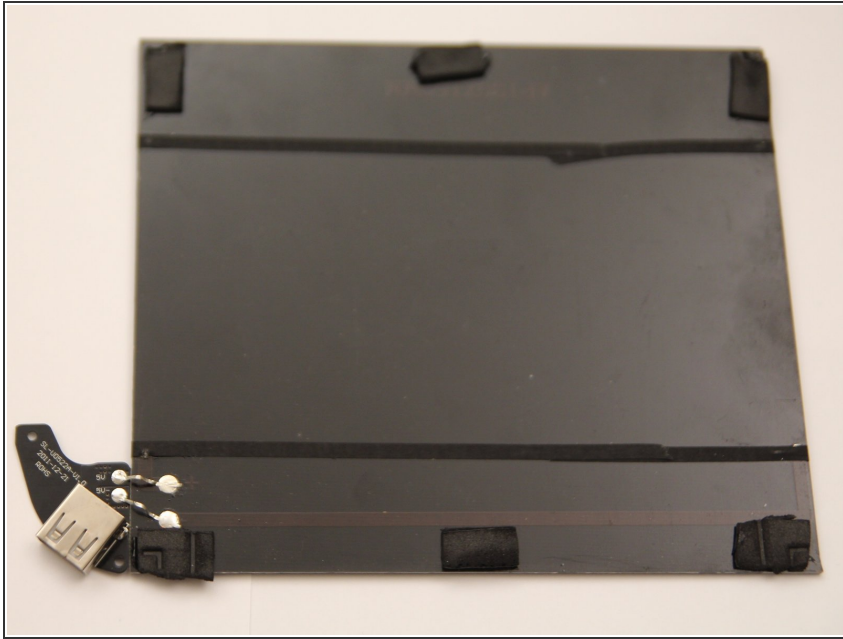
Step 13



- By holding onto both the USB port and the solar panel, remove both the circuit board and solar panel from the casing.

⚠ Be careful as the connection between the circuit board and the solar panel is very weak, so any wrong movement may ruin it.

Step 14



- Place the solar panel on a surface that you can solder on.
- Cut the two wires connecting the circuit board to the solar panel at the base near the solar panel by using [wire cutters](#).
- Take out the [Soldering Station](#). With the new solar panel, solder each lead back to the circuit board, ensuring the positive and negative leads match up correctly as displayed in the photo. Refer to the [Repairing Soldered Connection Guide](#).
- Put the device back together following the same guide in reverse order.
- When you reach step 8, apply your [Evo-Stick Super Glue](#) along the edges of the plastic panel.
- Press the panel back into place on the device. Let it sit and dry for 24 hours before use.
- Enjoy your working device!

For reassembly of the device, please follow the instructions in the reverse order.