



Skil 1743-AA Corded SDS+ Hammer Drill

Disassembly

This guide shows the disassembly of a Skil hammer drill.

Written By: Oscar Verbeek



INTRODUCTION

This guide is helpful if you need to access any of the internal parts of this (Skil) hammer drill. We demonstrate how to take out the cord, the trigger, and motor assembly.



TOOLS:

- [Phillips #2 Screwdriver](#) (1)
 - [Pry Bar](#) (1)
 - [Cutting Plier](#) (1)
 - [Flathead Screwdriver](#) (1)
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Step 1 — Skil 1743-AA Corded SDS+ Hammer Drill Disassembly



i The Skil 1743-AA Cordles SDS+ Hammer Drill is an affordable tool for serious hole drilling. Note that this one had its labels removed and the cord cut off for educational purposes.

Step 2



⚠ Make sure the drill is not plugged in. In our case, this was easy.

- With a Phillips size 2 screwdriver, unscrew the four 40mm screws from the front body.
- The front comes right off. Unfortunately this part is very rigidly put together, in fact so rigidly we were not able to disassemble it any further.

Step 3



- Flip over the rear body, and unscrew the 9 20mm screws.

Step 4



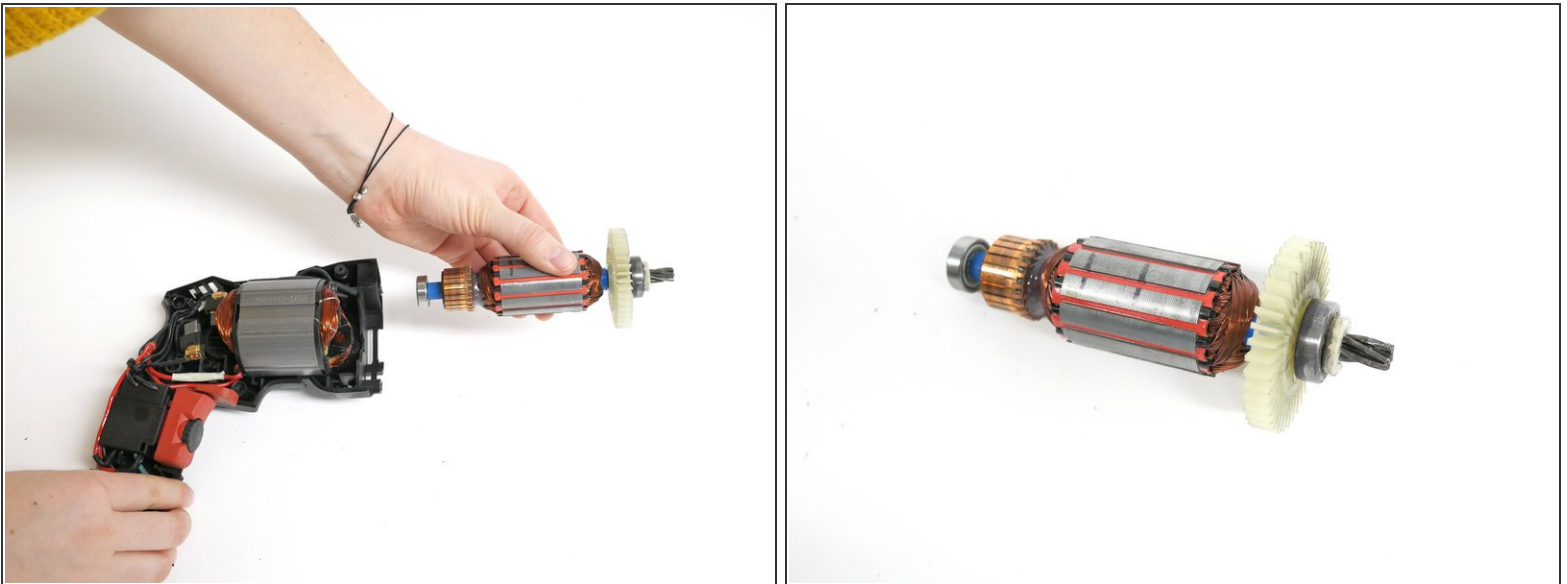
- With a pry tool, separate the two halves. You might need to go all around before they come loose.
- Take a moment to admire all that is inside.

Step 5



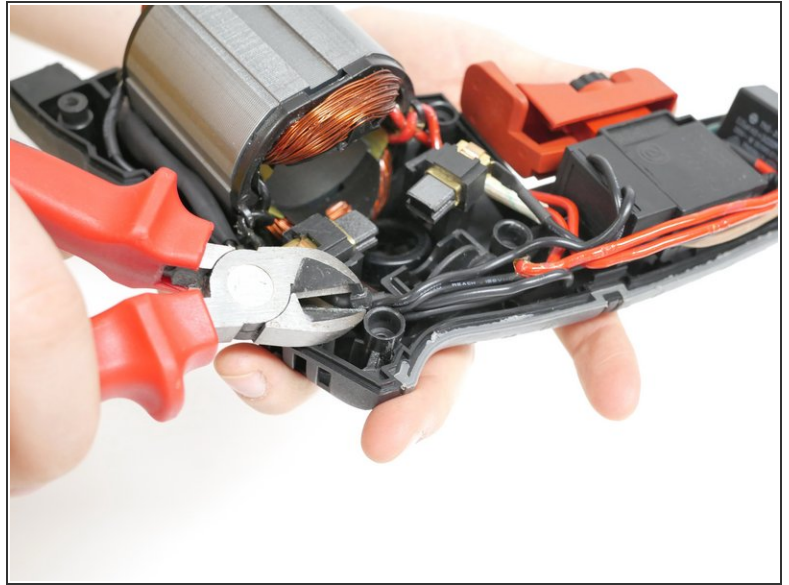
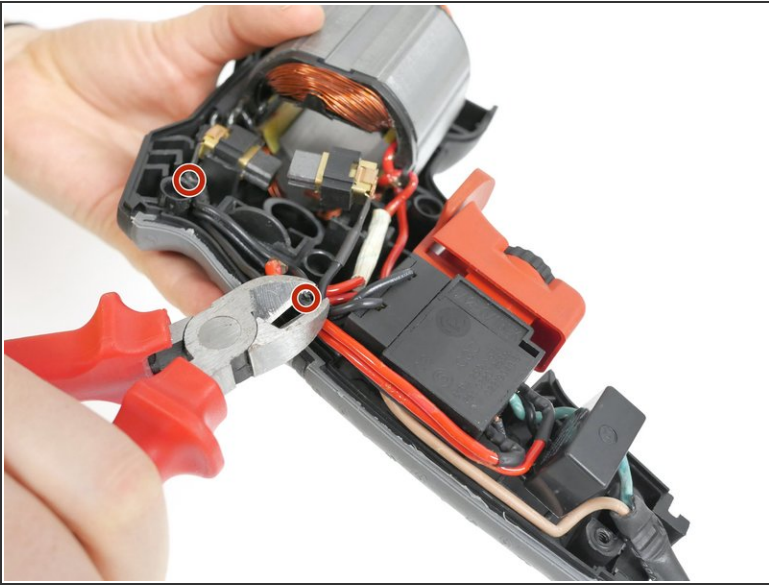
- Unscrew the two 15mm screws that secure the cord.
- The cord and its cradle look like one part, but actually they aren't.

Step 6



- Before we go any further, release the rotor from the motor assembly. Beautiful thing to behold, no?
- You might need to lift the bearing from its position behind the motor in order to take the rotor out.

Step 7



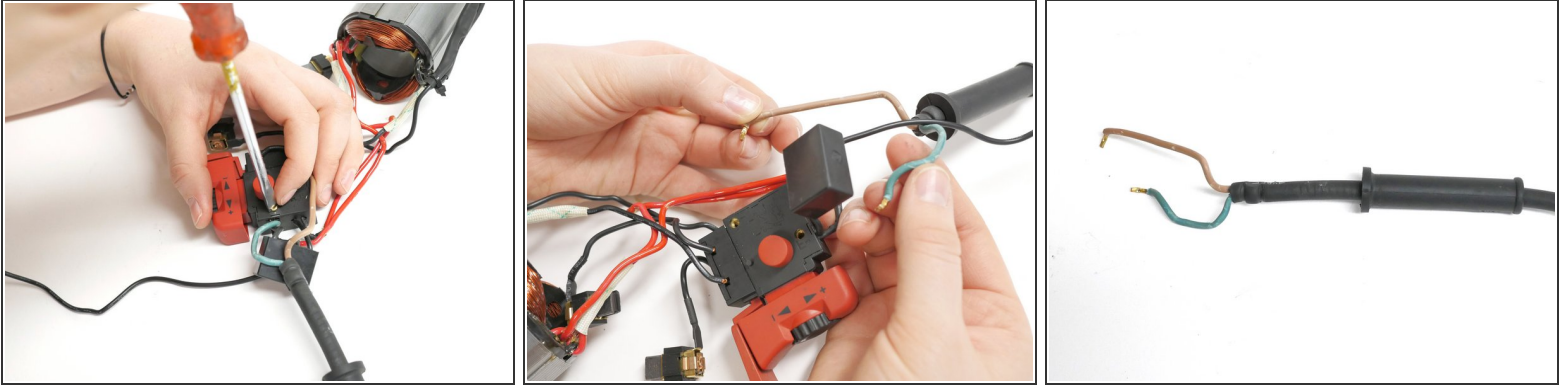
- With pliers, cut the cable ties that secure the cable tree.

Step 8



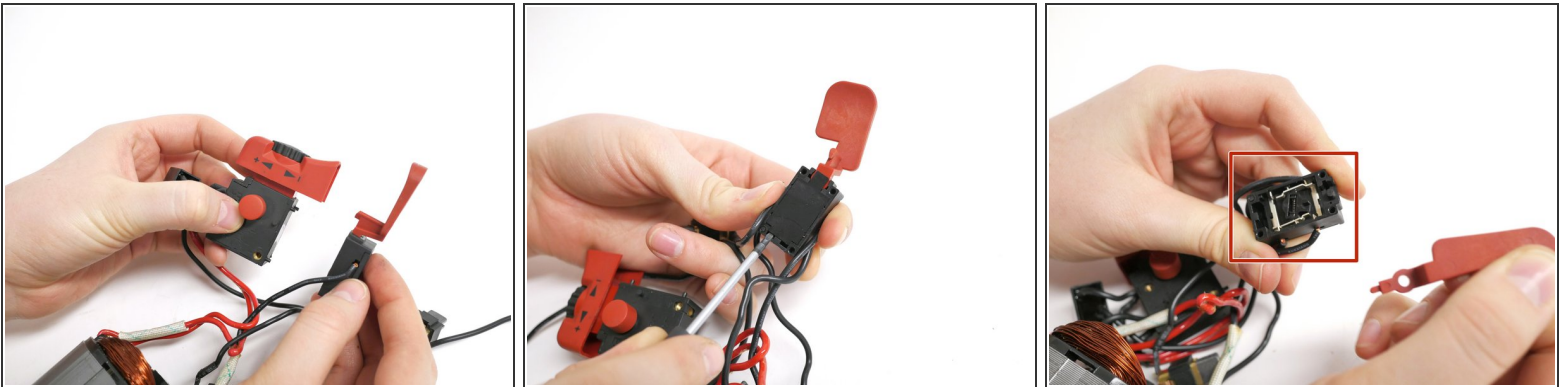
- The complete innards should come out easily.

Step 9



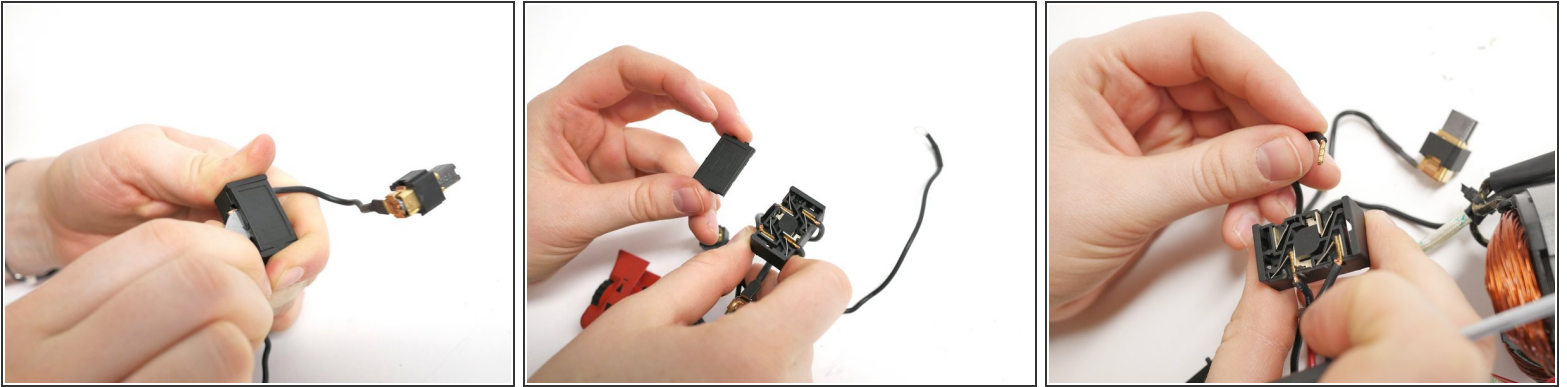
- We are now going to take out the power cable. Its leads are attached to the trigger box.
- With a size 3 slotted screwdriver, unscrew the two 10mm brass screws to release the power cord.

Step 10



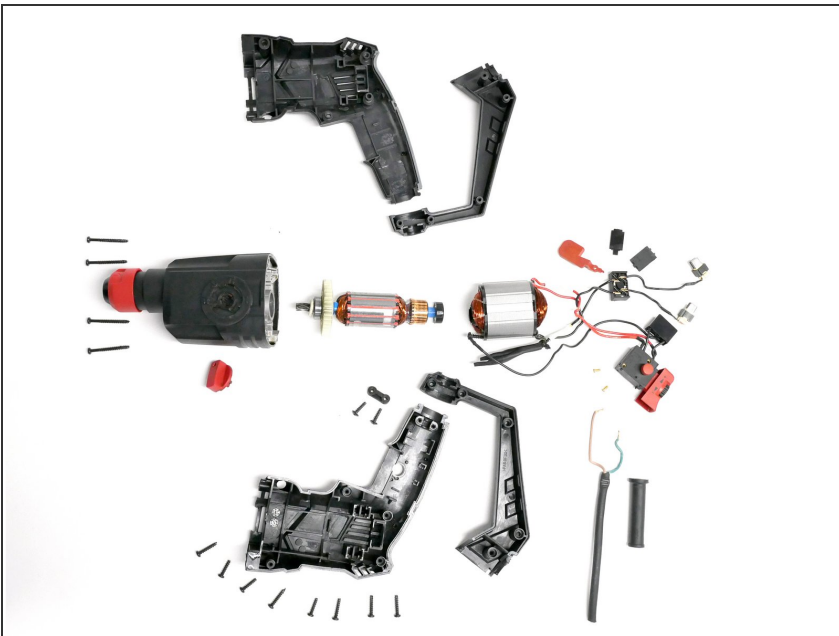
- Pull apart the trigger and polarity switch boxes.
- With your size 3 slotted screwdriver, or the pry, pry off the lid of the polarity switch. Using this switch the current to the motor is reversed so it turns the other way.
- Interesting spring mechanism!

Step 11



- Flip over the polarity switch box. The brushes that transfer power to the motor are attached inside here.
- The wires are not soldered which allows you to replace the brushes. Don't lose the springs that hold 'em in place though!

Step 12



- You have completed the disassembly!

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