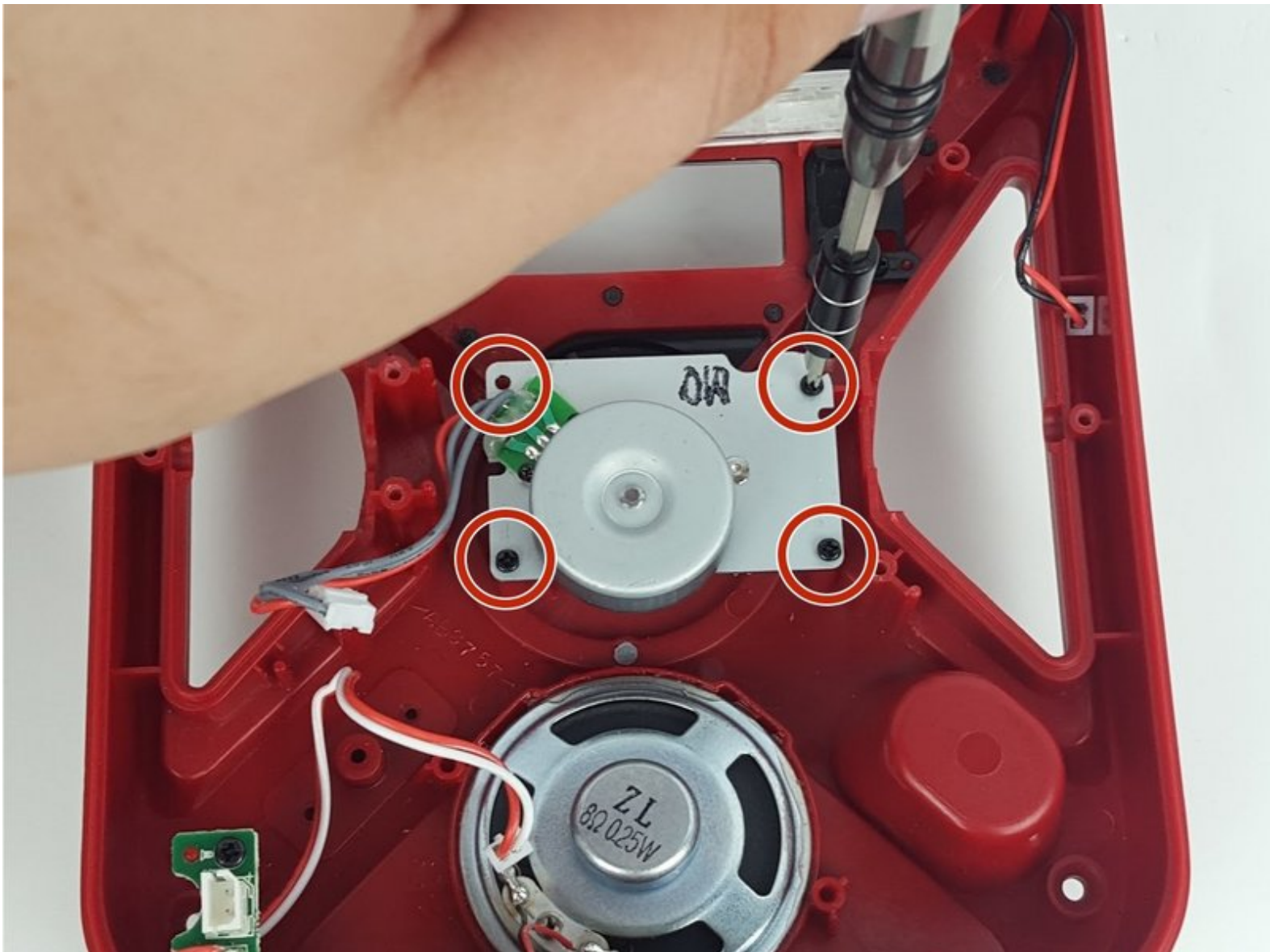




Eton FRX3 Dynamo Unit Replacement

Replace the dynamo unit in the Eton FRX3.

Written By: Kenneth Sills



INTRODUCTION

If the hand crank of the Eton FRX3 isn't working, the dynamo unit may have worn, stripped or ceased gears and will need to be replaced.

TOOLS:

- [iFixit Opening Tools](#) (1)
 - [Phillips #0 Screwdriver](#) (1)
 - [Phillips #00 Screwdriver](#) (1)
 - [T10 Torx Screwdriver](#) (1)
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Step 1 — Rechargeable Battery Pack



- Pull the plastic tab on the battery compartment cover panel to loosen it, then pull the panel off.

Step 2



- Disconnect the battery pack wires from the device and remove the battery pack.

Step 3 — Case Assembly



- On the bottom of the device case's face are two T10 screws. Use a T10 Torx screwdriver to remove the two screws.

Step 4



- While using the T10 screwdriver, remove the two T10 screws on the back of the device's case.

Step 5



- Remove the two Phillips #00 screws located in the center of the back of the device.
- ⓘ You will need to use a thin shafted screwdriver or a female hexagonal bit that is found in the iFixit 54 bit toolkit to extend the reach of the Phillips #00 bit.

Step 6



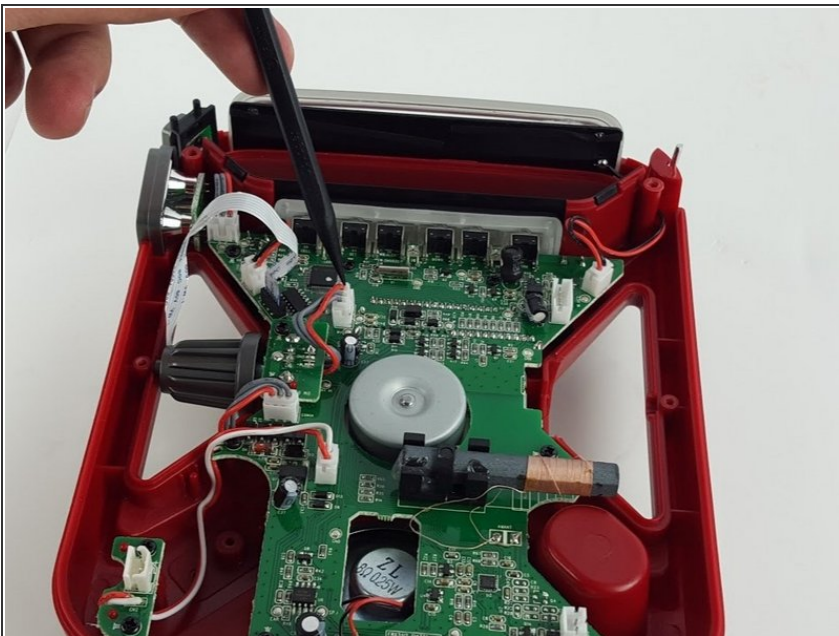
- On the bottom of the device's case there are two rubber feet. Pry the rubber feet off of the case.
- ★ Try to keep the adhesive on the rubber feet as clean as possible to insure that they can be reattached during reassembly.

Step 7



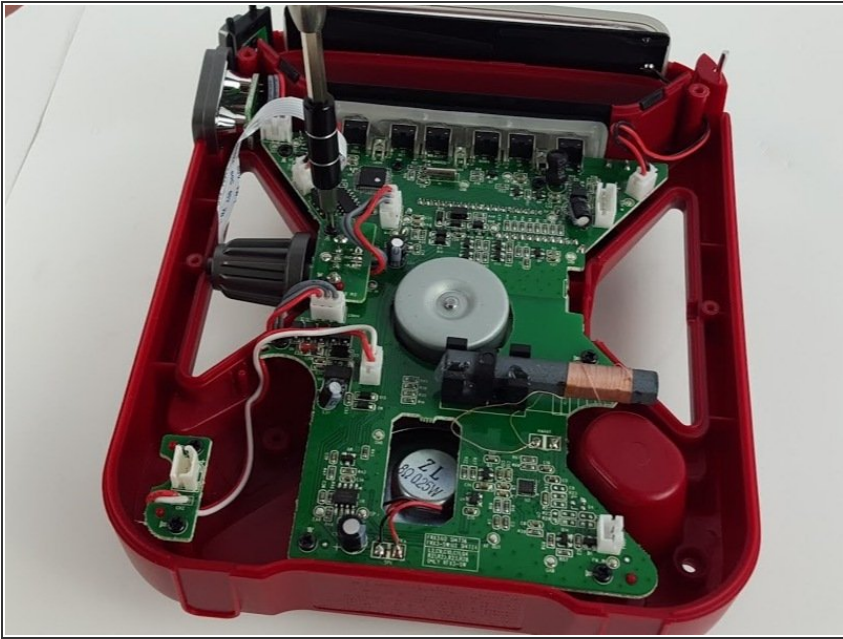
- Pull the two halves of the device's case apart.
- ⚠ Take care when pulling the two halves apart. There are three cables that connect components of the device to the motherboard. Disconnect these cables in order to separate the two halves of the device's case.

Step 8 — Tuning Dial



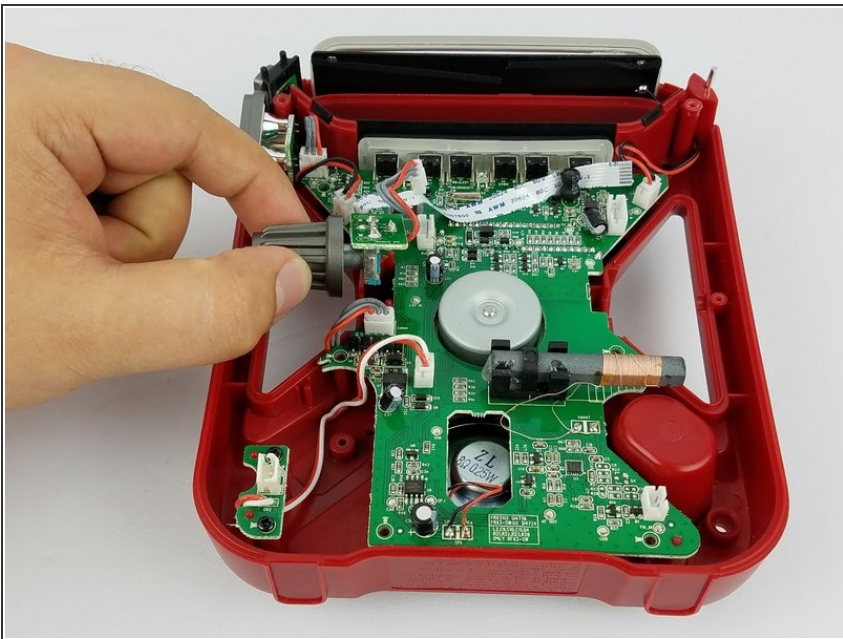
- Unplug the socket connection from the motherboard as shown in the image.

Step 9



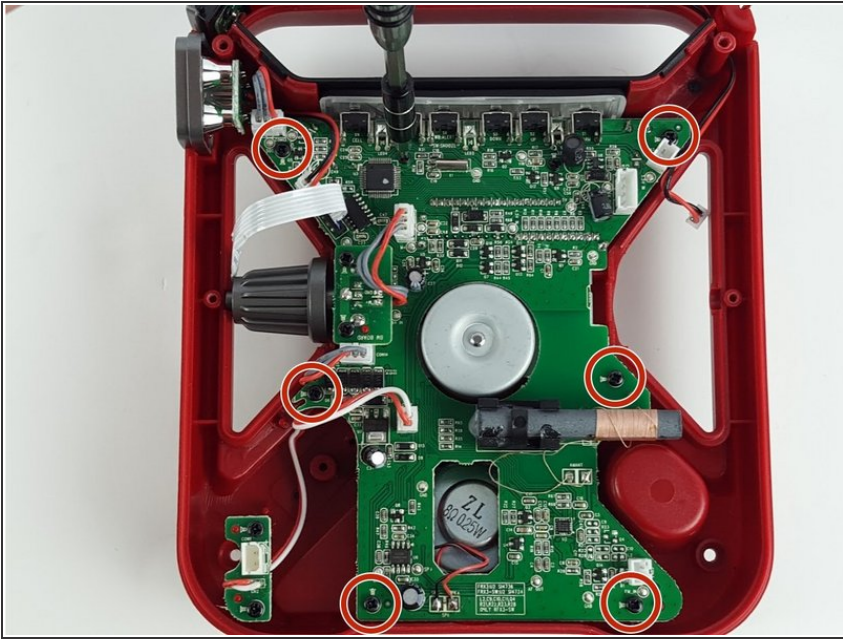
- Remove the two 1 cm Phillips #0 screws that secure the tuning dial panel to the motherboard.

Step 10



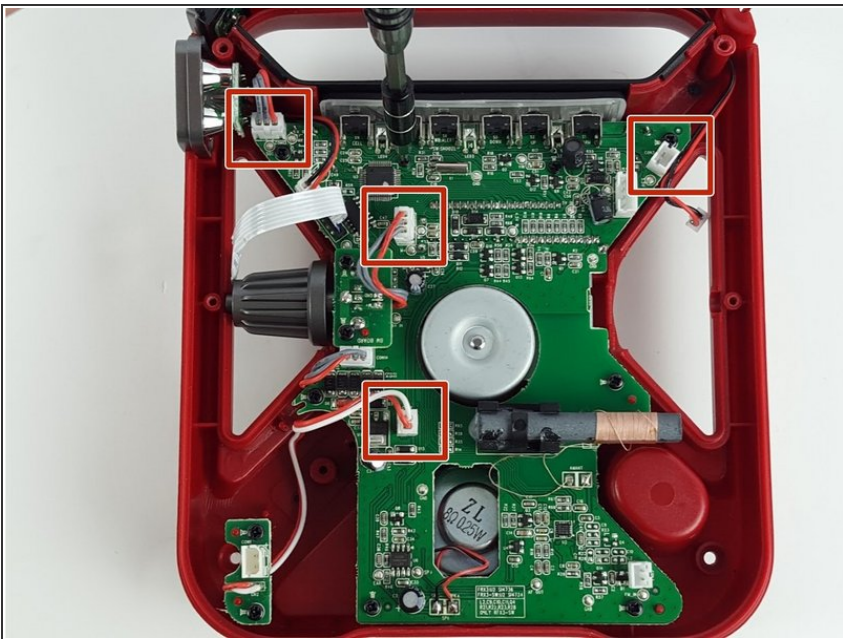
- Gently lift the dial upwards to remove it.

Step 11 — Motherboard



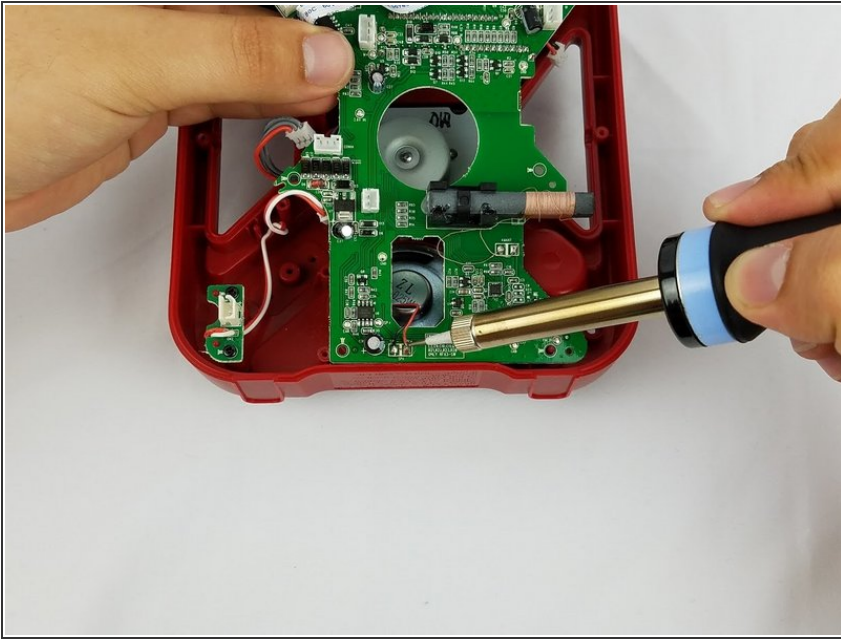
- Remove the six Phillips #0, 1 cm screws that secure the motherboard to the case.

Step 12



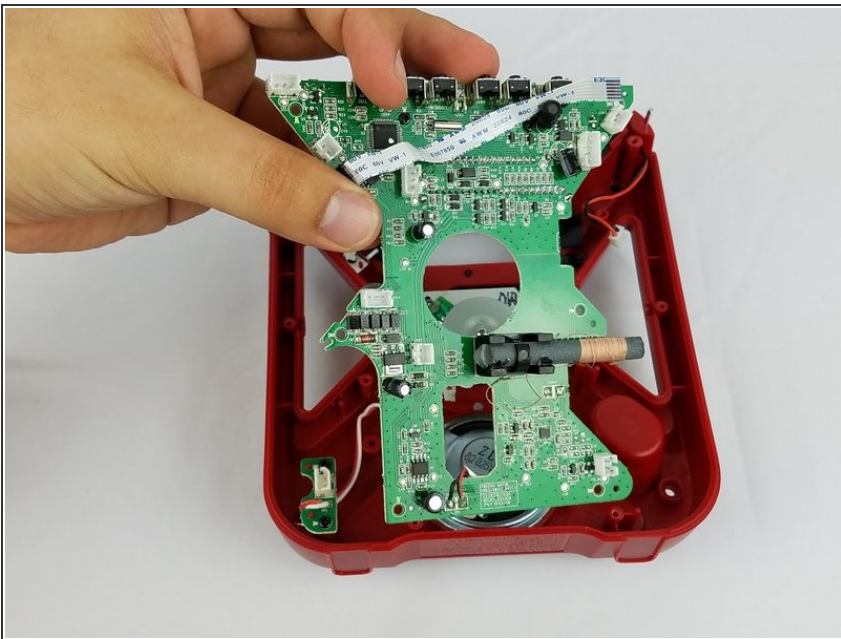
- Unplug all the component socket connections from the motherboard.

Step 13



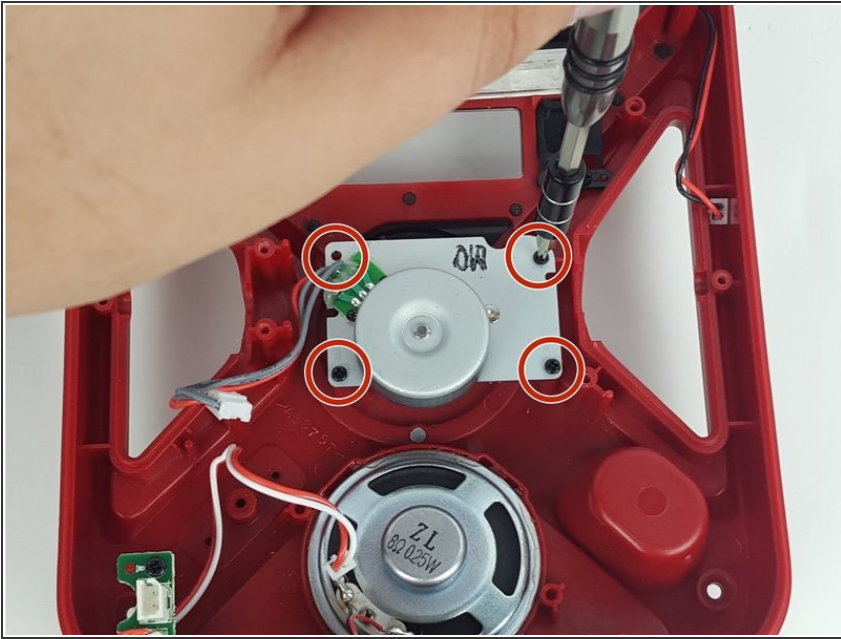
- Desolder the two wires that connect the speaker to the motherboard.

Step 14



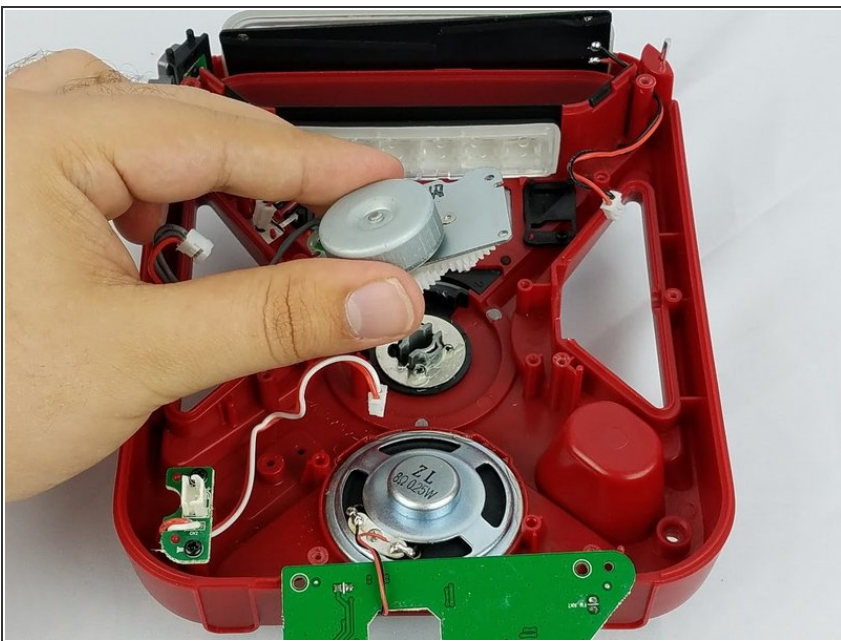
- Gently lift the motherboard upwards to remove it from the device.

Step 15 — Dynamo Unit



- Remove the four Philips #00 screws securing the dynamo to the case.

Step 16



- Gently pull the dynamo straight upwards to remove it.
- ⓘ The gears and where they are seated on the dynamo, are covered in grease. Try to avoid touching where the gears seat, to keep the new gears as lubricated as possible!

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