



Teardown of GD Midea FT30-3D

A run through of how to disassemble every part of the fan.

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INTRODUCTION

We are going to start with the base of the fan, and move to the top afterwards.

TOOLS:

- **Phillips #1 Screwdriver** (1)
- **1.5 mm Flathead Screwdriver** (1)
- **Spudger** (1)

Step 1 — Bottom Base



- Locate and remove the 14.5 mm Phillips #1 screw on the bottom of the fan base.

Step 2



- Locate the gray base support release tabs found on either side pictured in the first image.
- (i)* There are release tabs on each side of the base.
- Press both release tabs in with the tip of your fingers and pull the gray base support until the tabs are cleared.

Step 3



- Continue removing the gray base support by pressing your thumb into the circular opening in the base and pulling with your fingers on the back side.
- **Notice** that on the internal front tip of the base there is a tab. Because of this tab the back end will pivot off at that point.

Step 4



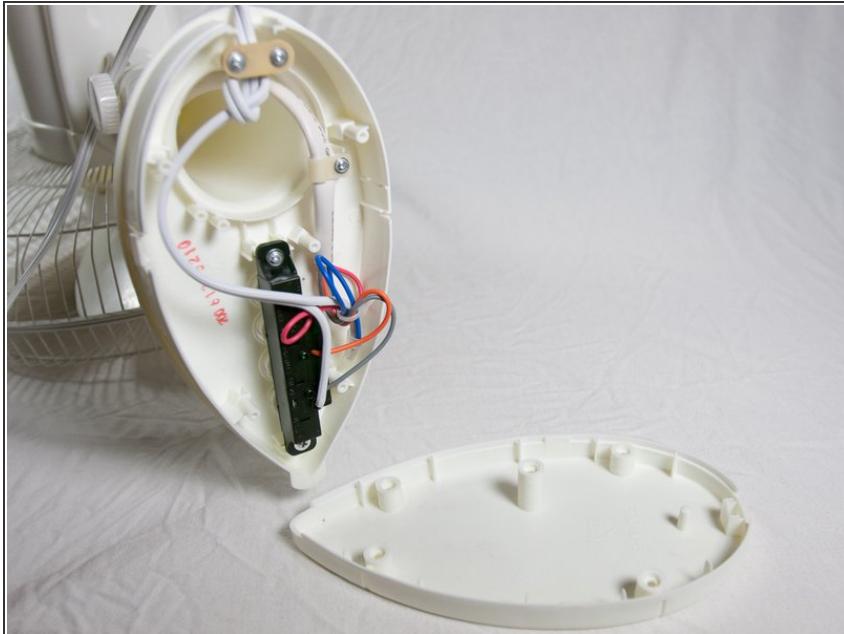
- After the base has separated more it will be easy to fully remove it. Continue pulling the back edge of the gray base support, rotating it around the front tab until it comes off completely.

Step 5



- Remove the following five 14.5 mm Phillips #1 screws found on the bottom.
(i) All of the screws are recessed by 17.5 mm, so ensure your screwdriver can reach that far.

Step 6



- Once all five screws have been removed the base cover should fall right off with out any effort.

⚠ When putting the base cover back on; be careful to make sure that none of the wires are pinched.

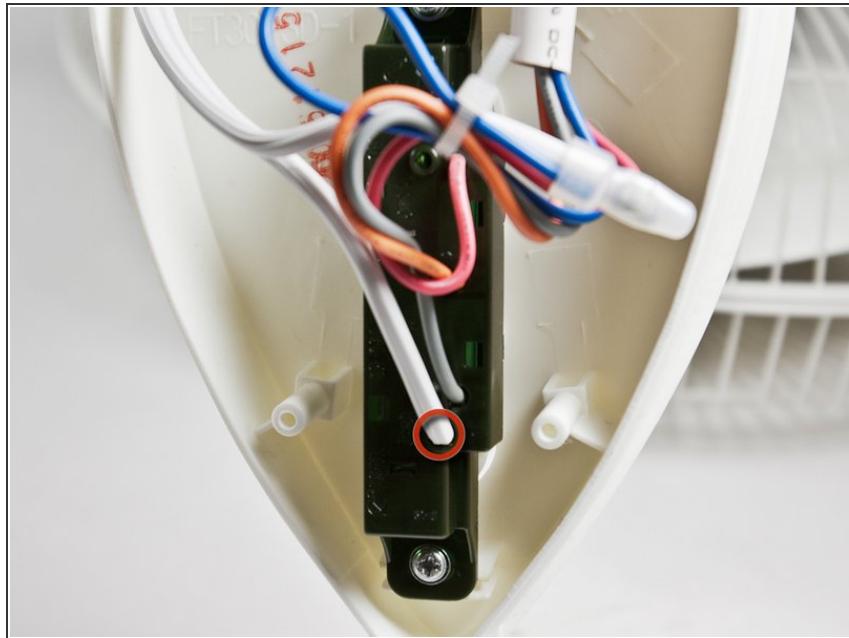
Step 7 — AC Power Cord



- Remove the two 15 mm Phillips screws on the retention plate.

i The tan retention plate will fall off once the screws are removed.

Step 8



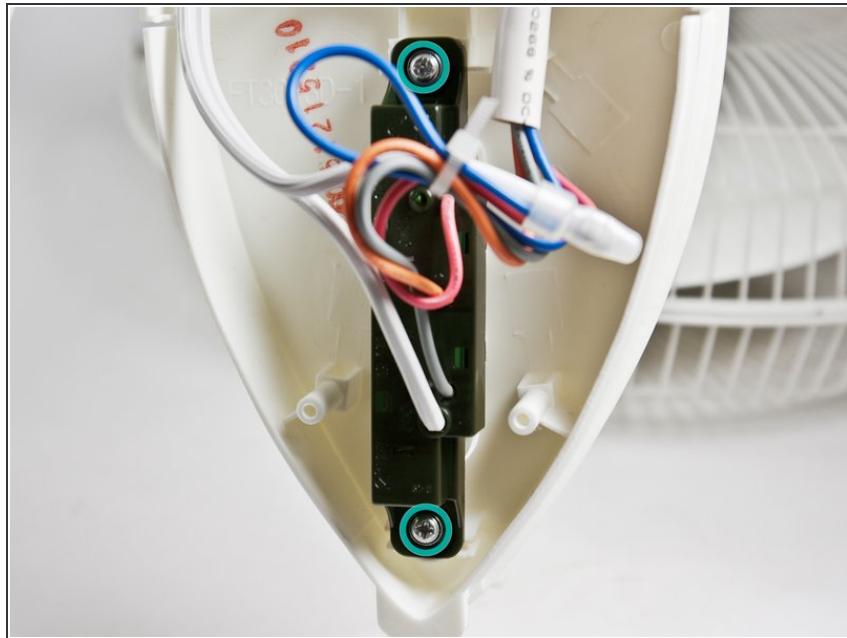
- Take the 1.5 mm Flathead Screwdriver, or any thin elongated tool that fits into the semi-circular holes along side the AC power cord white wire. Press into the hole gently to release the grip on the wire.

Step 9



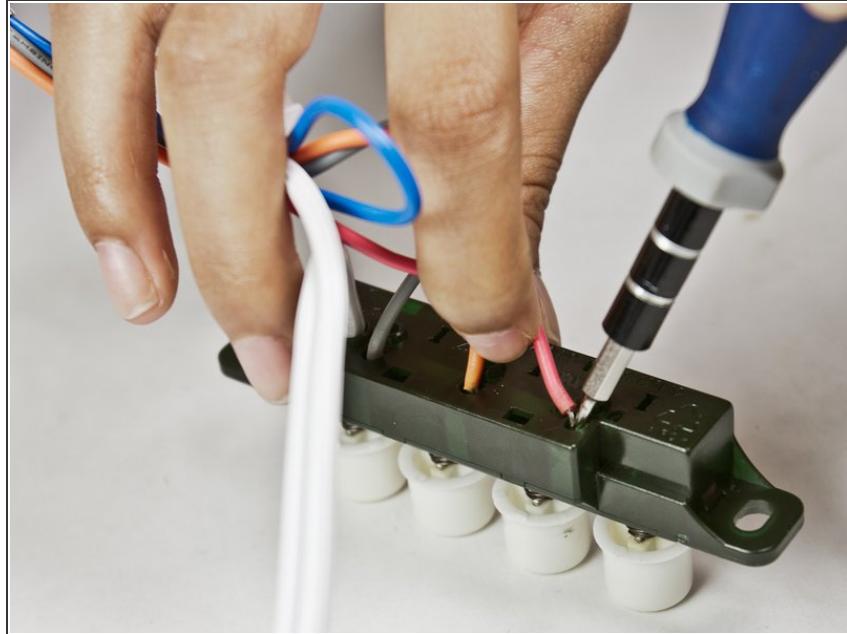
- Cut the existing cable tie bundling the other AC power cord, red, orange, gray, and blue wires together.
- Remove or cut the crimp connector connecting the blue wire and the AC power cord wire.

Step 10 — Power/Speed Switch



- Remove the two 10 mm Phillips #1 screws found connecting the switch to the case.
- *(i)* Notice the AC power cord line (white wire) goes into the switch under the **[Off]** button

Step 11

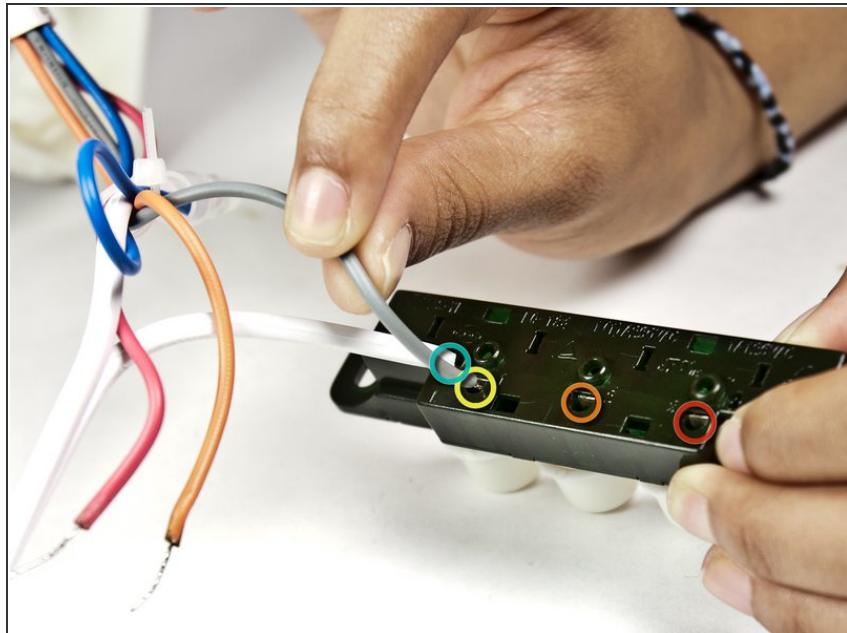


- Take the 1.5 mm Flathead Screwdriver, or any thin elongated tool that fits into the semi-circular holes along side the wires. Press into the hole gently to release the grip on the wires.

 The wires should release with ease if done properly.

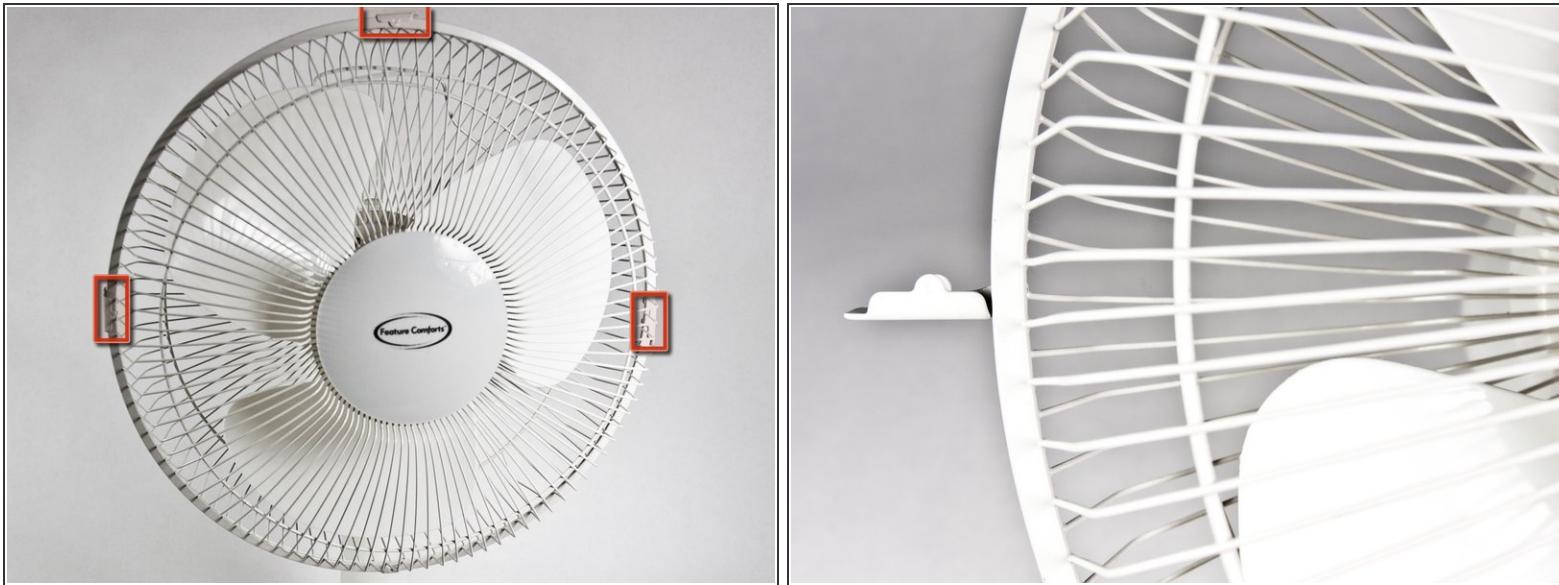
 When reassembling; skip this step.

Step 12



- Take the new switch, and simply push the wiring into the correct holes:
 - AC Power Cord (white wire)
 - Low speed (gray wire)
 - Medium speed (orange wire)
 - High speed (red wire)

Step 13 — Fan Blades



- Release the 3 clips that attach the front fan guard to the rear fan guard.

(i) Notice: The lower connecting bracket is NOT a clip. It acts as a mounting alignment bracket for the front fan guard.

Step 14



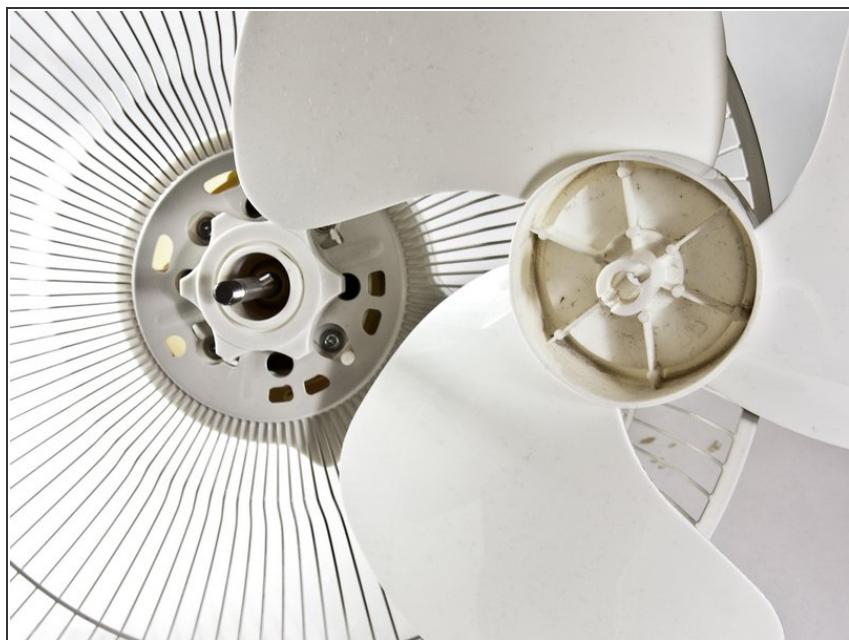
- Pull the front fan guard off.

Step 15



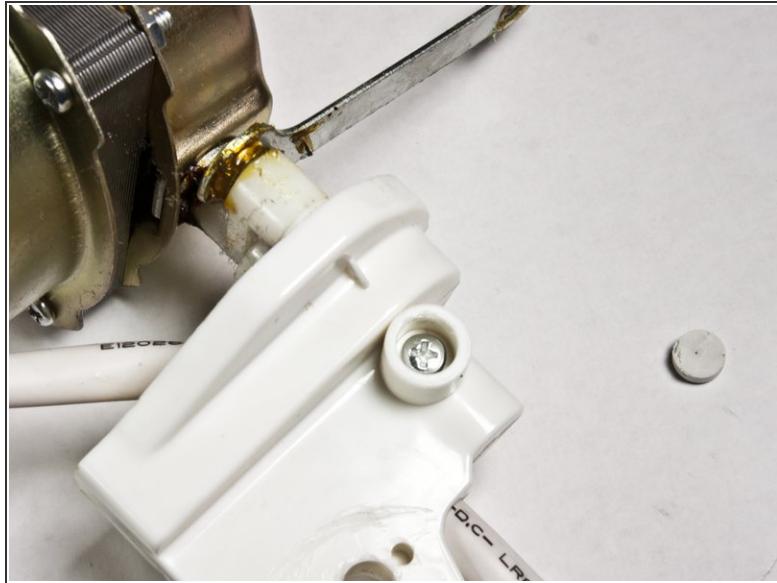
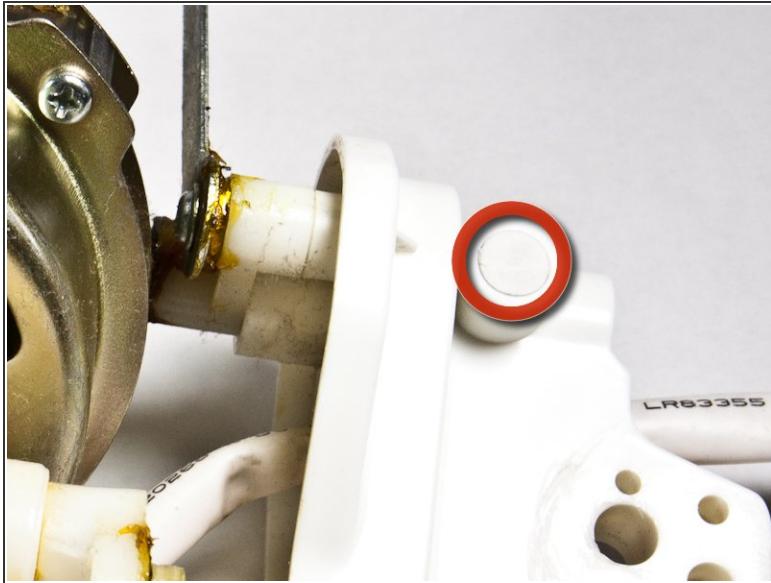
- Remove the spinner from the center of the fan blade.

Step 16



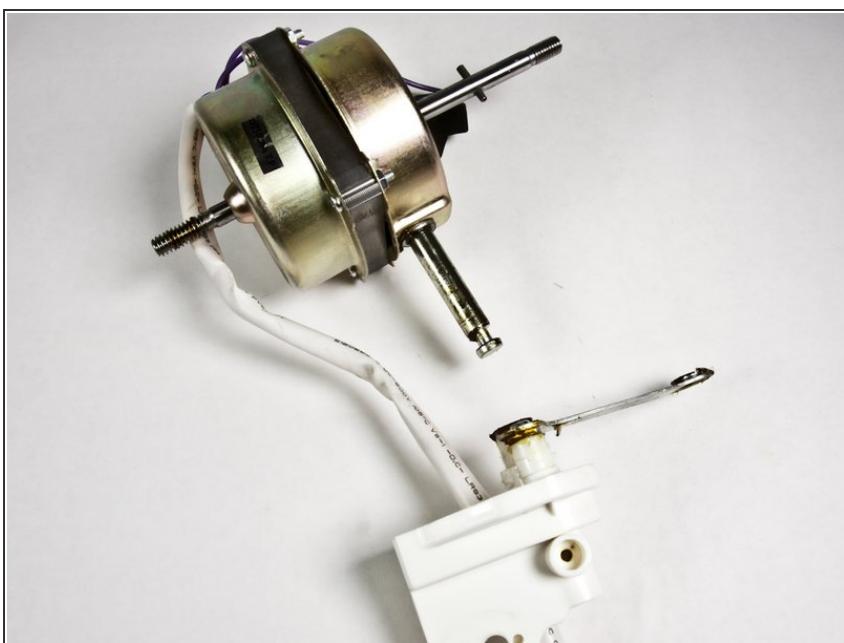
- The fan blades should now be easy to lift up.
- When reassembling the fan make sure the notches in the center of the fan blade line up with the protrusions in the motor's shaft.

Step 17 — Motor



- At the base of the upper assembly there is a plug which conceals a screw.
- The plug can be removed with a screwdriver. Removing the plug may take a few attempts.

Step 18



- Slide the motor out of the base of the upper assembly.

Step 19 — Oscillation Mechanism



- Remove the rear fan guard by taking off the plastic nut that holds the rear fan guard to the upper assembly.
- *(i)* The plastic nut needs to be twisted off; like a screw.

Step 20



- Remove the screw at the center of the oscillator knob and remove the oscillator knob.
- If the oscillator knob is clean and undamaged then the problem is with the oscillator. If the knob is damaged replace it and test your fan before proceeding forward in the guide.

Step 21



- Remove the front motor housing by removing 4 screws.

Step 22



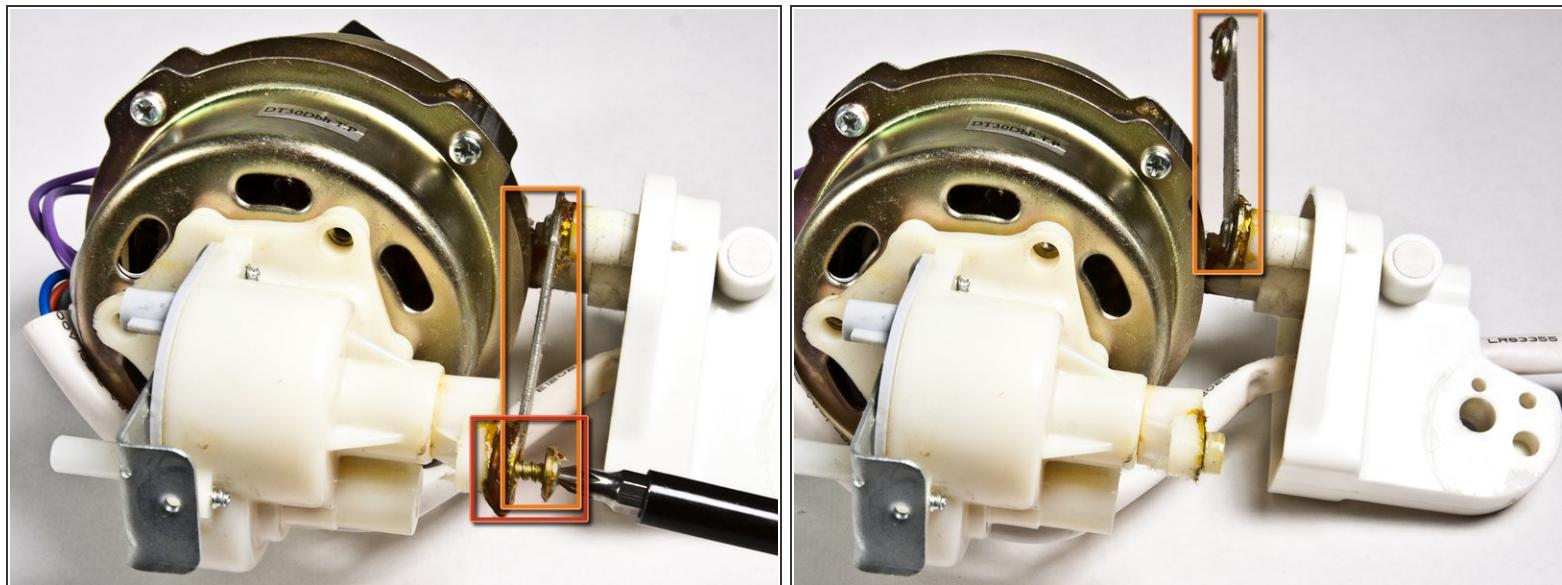
- The main motor housing can be taken off by removing a single screw at the back of the upper assembly.

Step 23



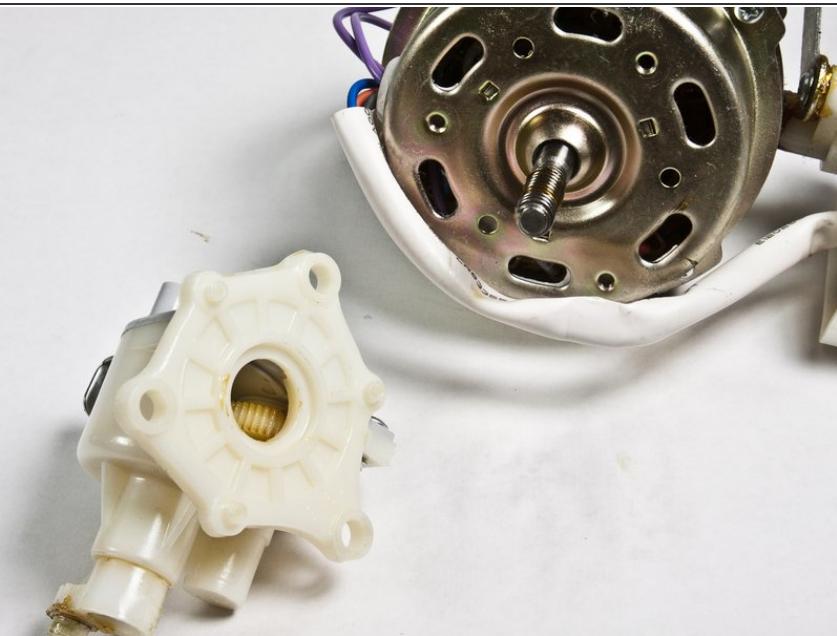
- There is a capacitor attached to the oscillator by a single screw. Once the screw is removed the capacitor should come off easily.

Step 24



- Remove the screw that connects the oscillator to the rocker arm.
- Push down on the rocker arm after removing the screw and turn it away from the oscillator.

Step 25



- The oscillator should now be easy to pull off.
- Clean the oscillator and remove any jams. If the problem persists the oscillator is damaged and needs to be replaced.

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