



# Holmes HEH8031 Fan Replacement

This guide will show you how to safely remove and replace the fan assembly of the Holmes HEH8031.

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## INTRODUCTION

This guide will show you how to safely remove and replace the fan assembly of the Holmes HEH8031.

### TOOLS:

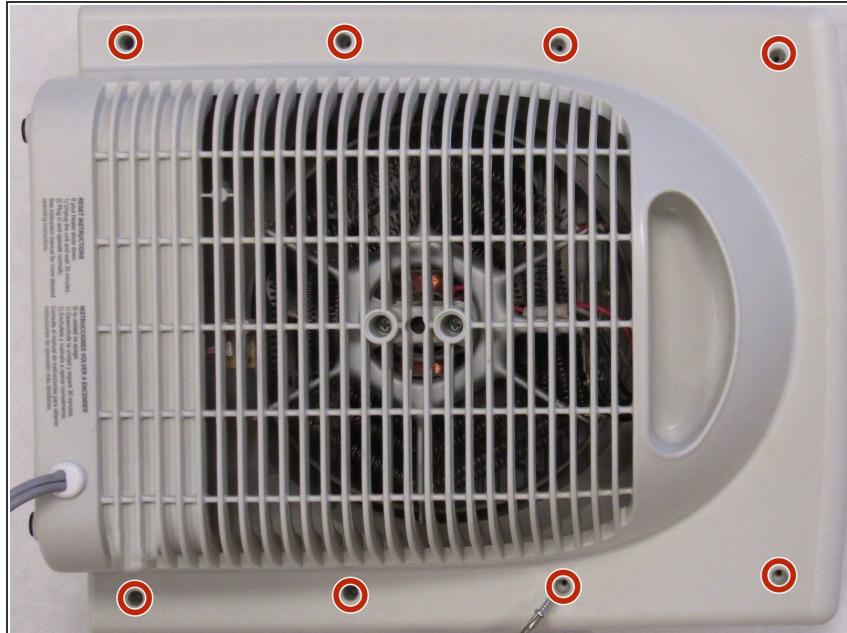
- [Soldering Iron](#) (1)
- [Desoldering Braid](#) (1)
- [Phillips #2 Screwdriver](#) (1)
- [Slip Joint Pliers](#) (1)

## Step 1 — Housing



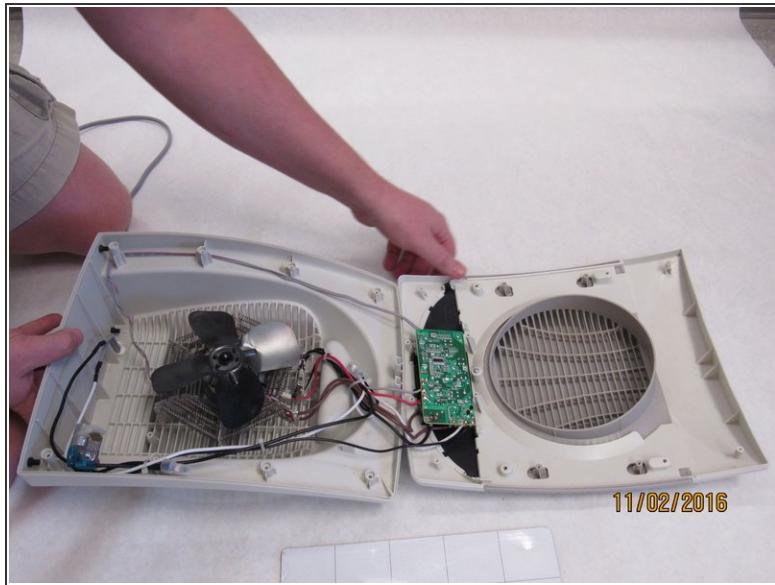
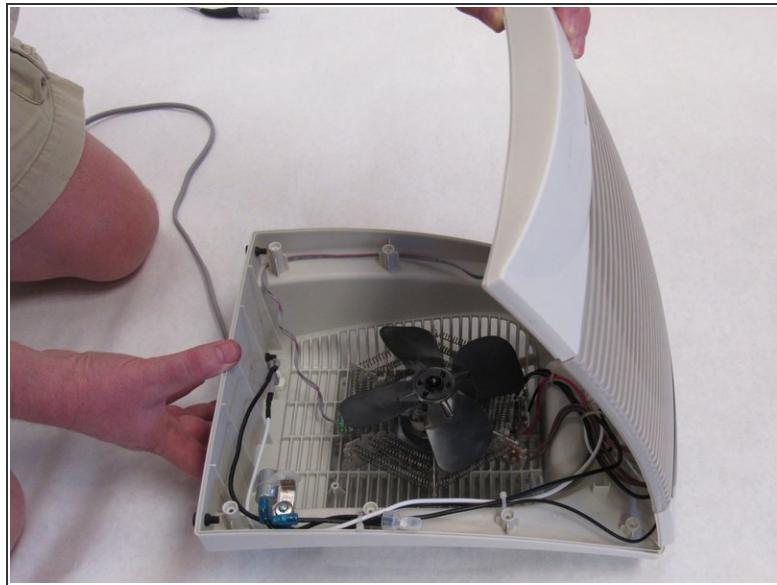
- Ensure the device is unplugged from the wall outlet.

## Step 2



- Remove eight 12-mm Phillips #2 screws from the back cover.

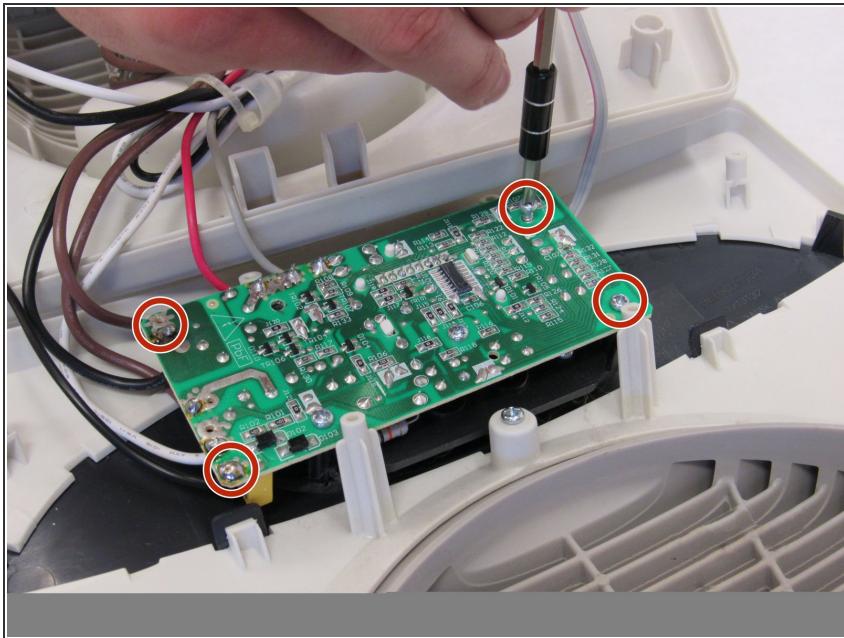
## Step 3



- Turn heater over so the controls are facing up.
- Lift the front housing away from the back of the fan and slowly fold the front housing back down to the floor.

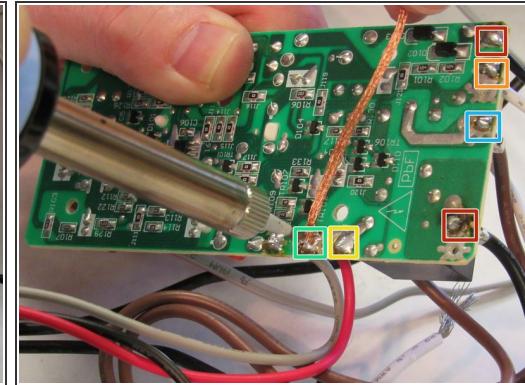
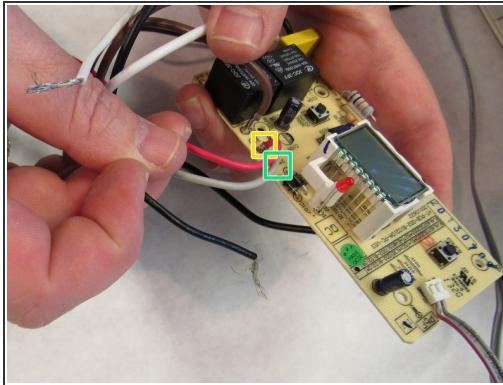
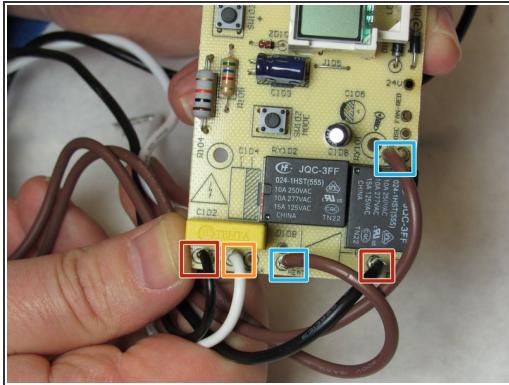
**i** Internal wires are connected to both halves of the housing. Be careful when separating the housing.

## Step 4 — Circuit Board Removal



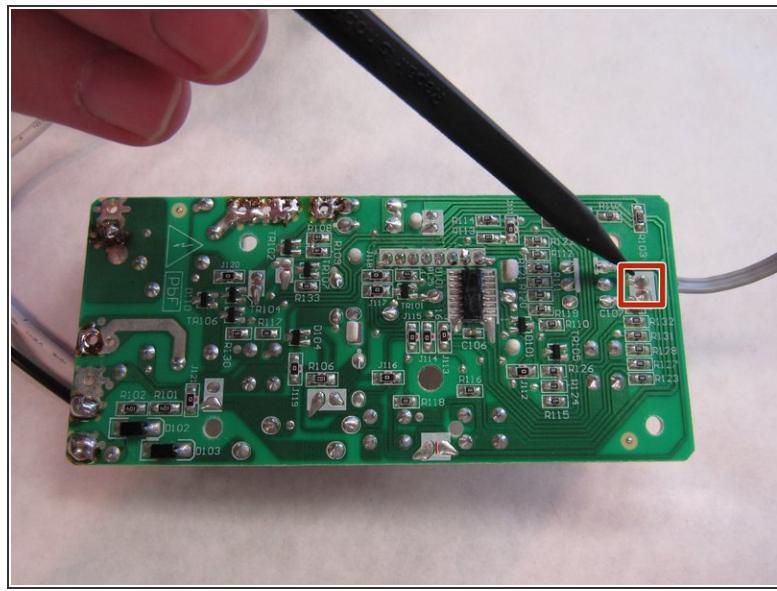
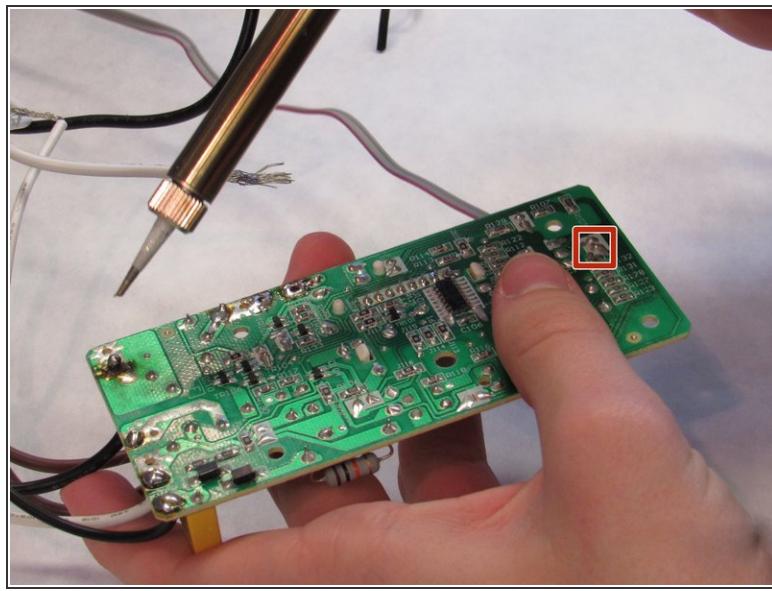
- Remove four 12mm Phillips #2 screws from the circuit board.

## Step 5 — Circuit Board



- Desolder the BLACK wires from the "AC-L" point and "T/S" point.
  - Learn how to solder and desolder connections [here!](#)
- Desolder the WHITE wire from the "AC-N" point.
- Desolder the RED wire from the "FAN-RED".
- Desolder the GREY wire from the "24V" point.
- Desolder the BROWN wires from "HEAT1," and "HEAT2" points.
  - Be sure to use desoldering wick when you remove the wire connections.

## Step 6



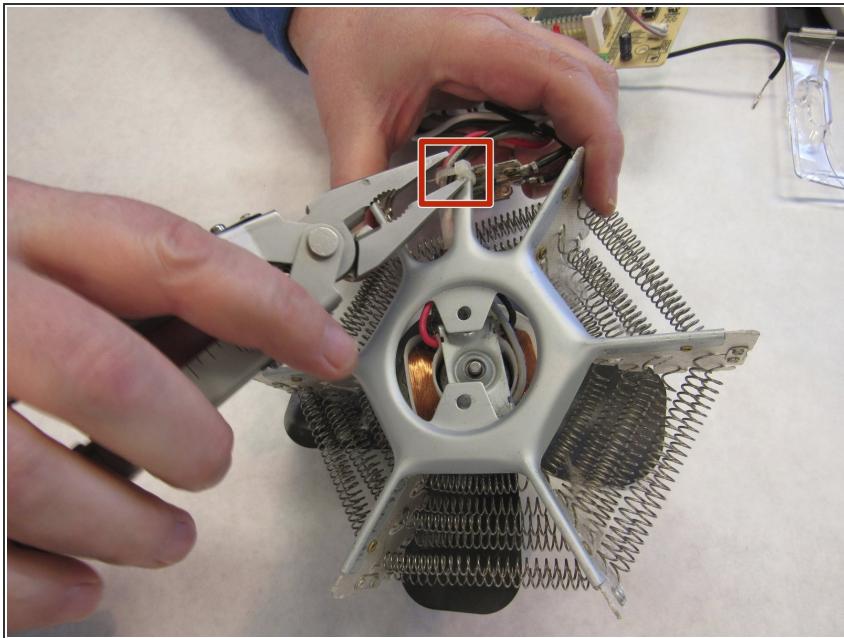
- Desolder the WHITE connector (attached to the GRAY wire coming of the thermostat) from the "NTC101" point.

## Step 7 — Fan



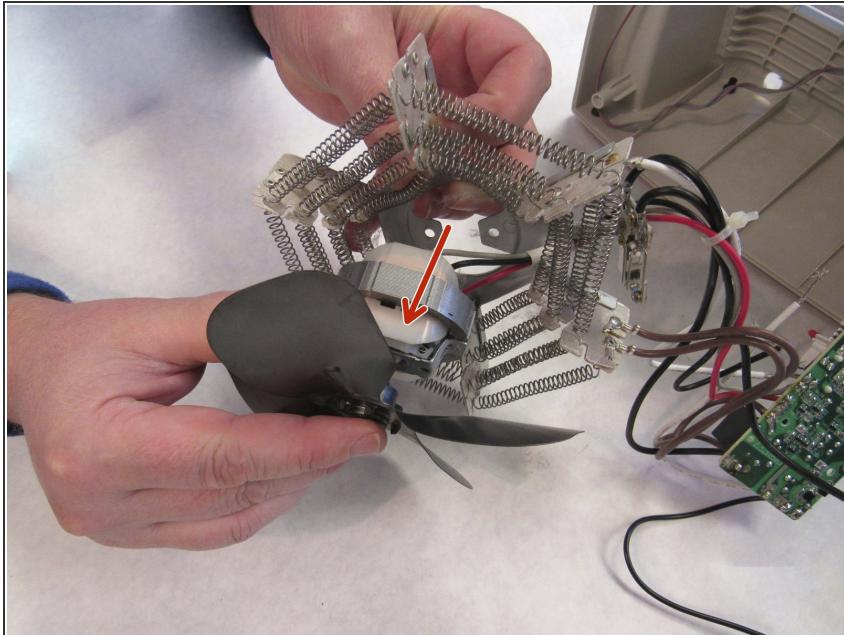
- Remove two Phillips #2 12mm screws from housing

## Step 8



- Remove zip tie from wire with pliers

## Step 9



- Separate fan assembly from heating coil

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