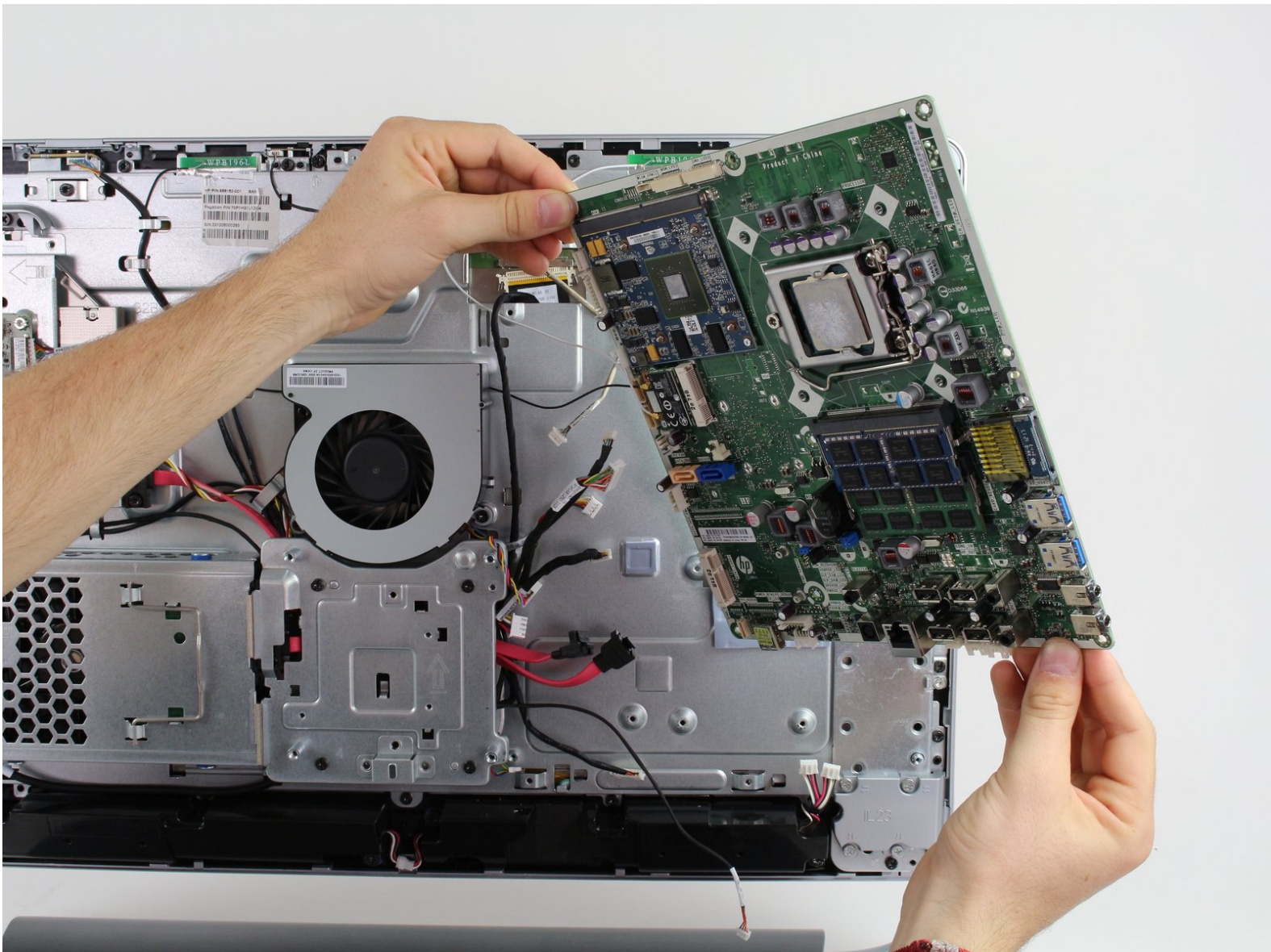




# HP Envy 23-d060qd TouchSmart Motherboard Replacement

This guide will demonstrate how to properly replace the motherboard on the HP Envy 23-d060qd TouchSmart.

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## INTRODUCTION

My computer is being a bird-brain. How do I make it intelligent again? I know replacing a motherboard is a very lengthy and delicate procedure.

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### TOOLS:

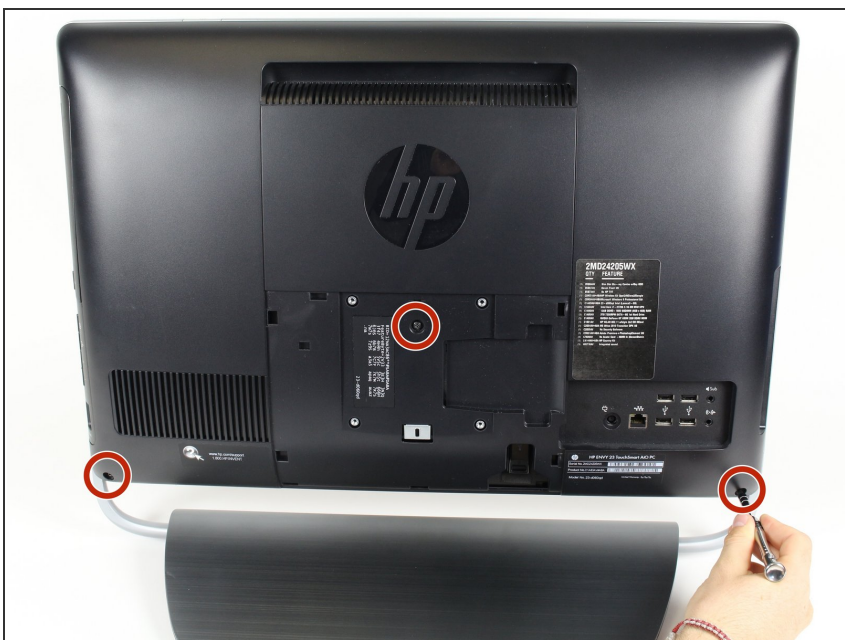
- [Phillips #2 Screwdriver](#) (1)
  - [T15 Torx Screwdriver](#) (1)
  - [Phillips #1 Screwdriver](#) (1)
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## Step 1 — Back Panel



- Use your hands to unclip the plastic snaps on the back panel of the device.

## Step 2



- Remove the three 11.5mm PH2 screws from the back panel.
- ⓘ The screws will not fall out of the back panel, but they will unscrew to release the back panel.

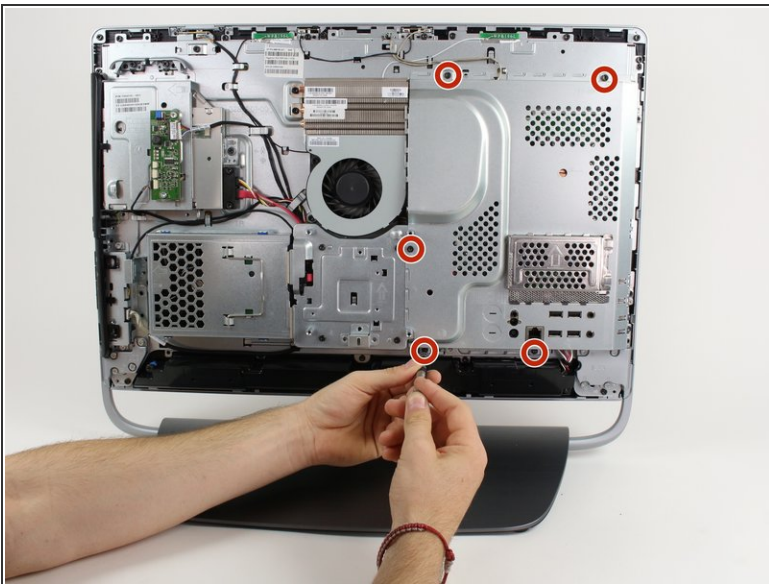


### Step 3



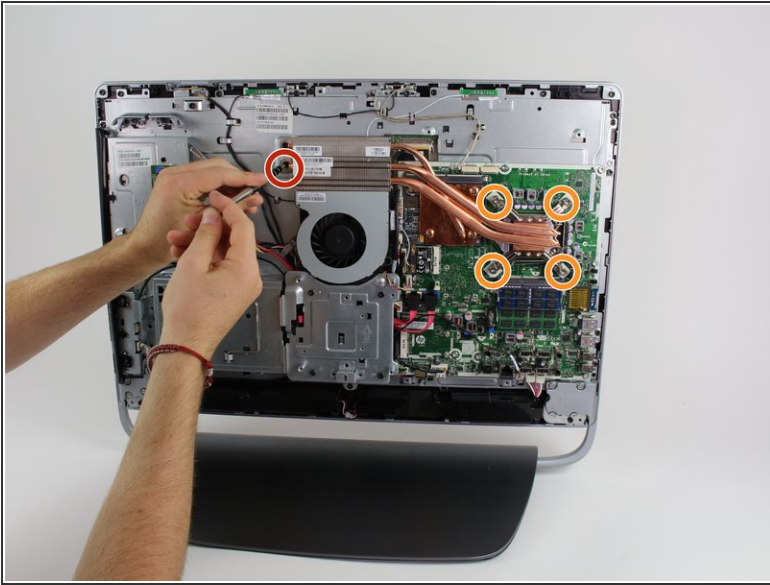
- Now, take the back panel off by pulling at it gently with your hands.

### Step 4 — Motherboard



- Remove the five 7.5mm T15 screws from the cover plate.
- Remove the cover plate.

## Step 5



- Remove the 7.5mm T15 screw on the left side of the first heatsink.
- Remove the four 15mm T15 screws on the right side of the first heatsink.
- Use your hands to pull the first heatsink free from the computer.

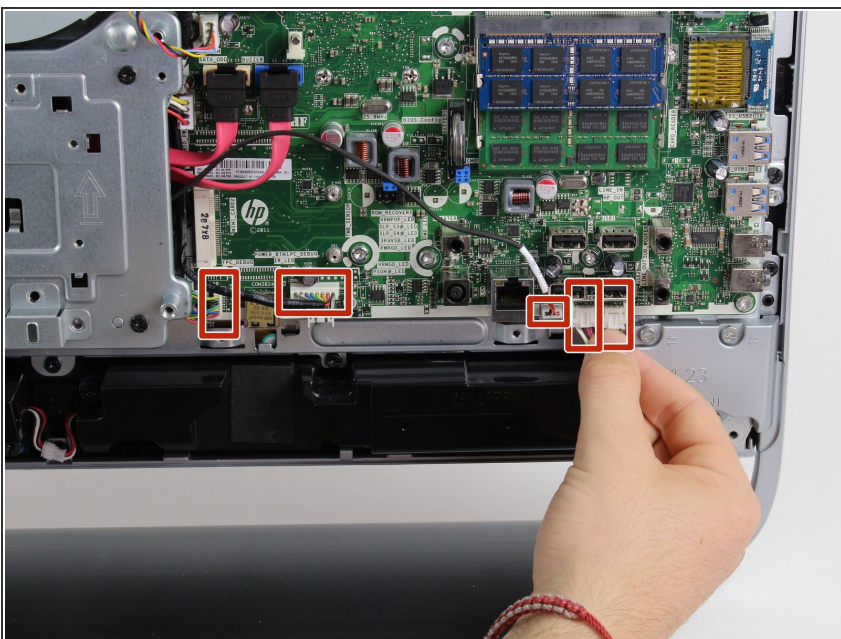


## Step 6



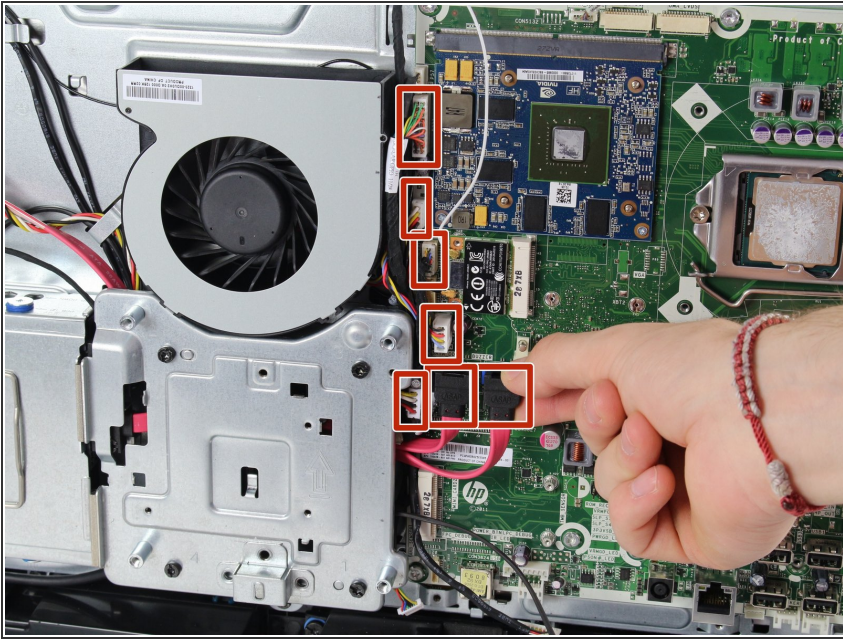
- Remove the 7.5mm T15 screw on the left side of the second heatsink.
- Remove the four 8mm PH1 screws on the right side of the second heatsink.
- Pull the second heatsink free from the computer.

## Step 7



- Slowly work your way across the bottom of the motherboard, disconnecting all of the labeled connections. Use your hands to gently pull the plastic piece at the ends of the wires.
- ⚠ Be very gentle with all of the critical connections, some of them may be very fragile. Pulling on the wires can damage them.

## Step 8

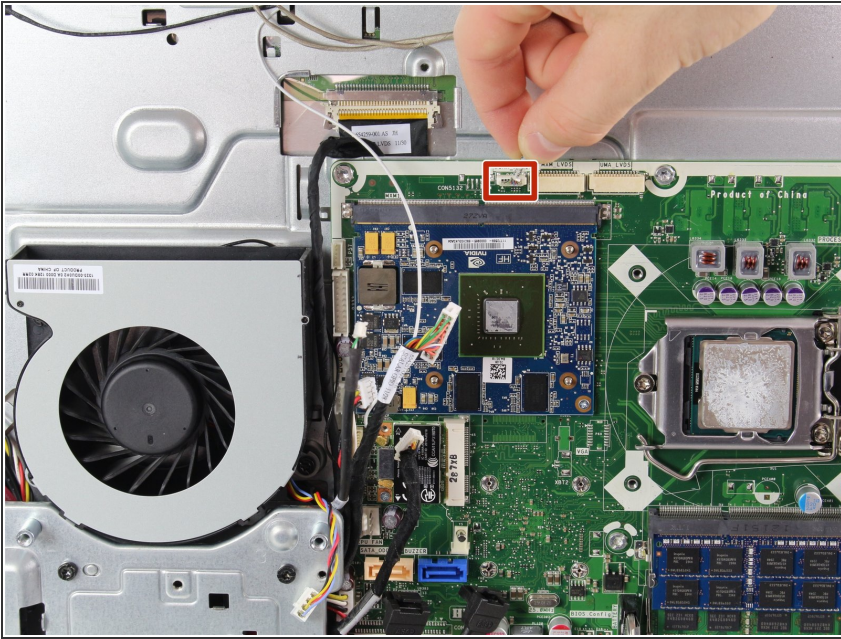


- Slowly work your way along the left side of the motherboard, disconnecting all labeled connections. Use your hands to gently pull the plastic piece at the ends of the wires.

⚠ Be very gentle with all of the critical connections, some of them may be very fragile. Pulling on the wires can damage them.



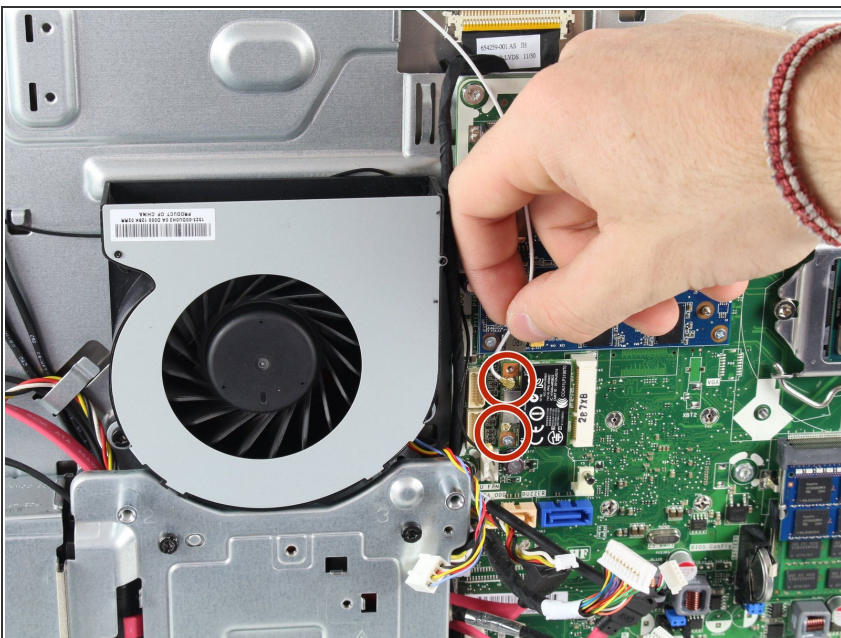
## Step 9



- Slowly work your way along the top of the motherboard, disconnecting the labeled connection. Use your hands to gently pull the plastic piece at the end of the wire.

⚠ Be very gentle with all of the critical connections, some of them may be very fragile. Pulling on the wire can damage it.

## Step 10

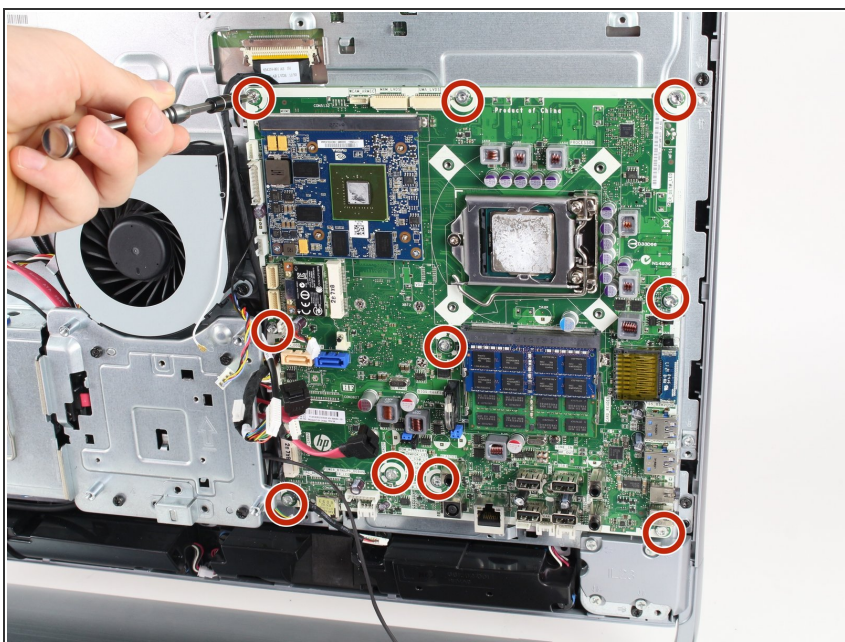


- Gently remove the two labeled connections.

⚠ Be very gentle with these connections. They are only a single wire.

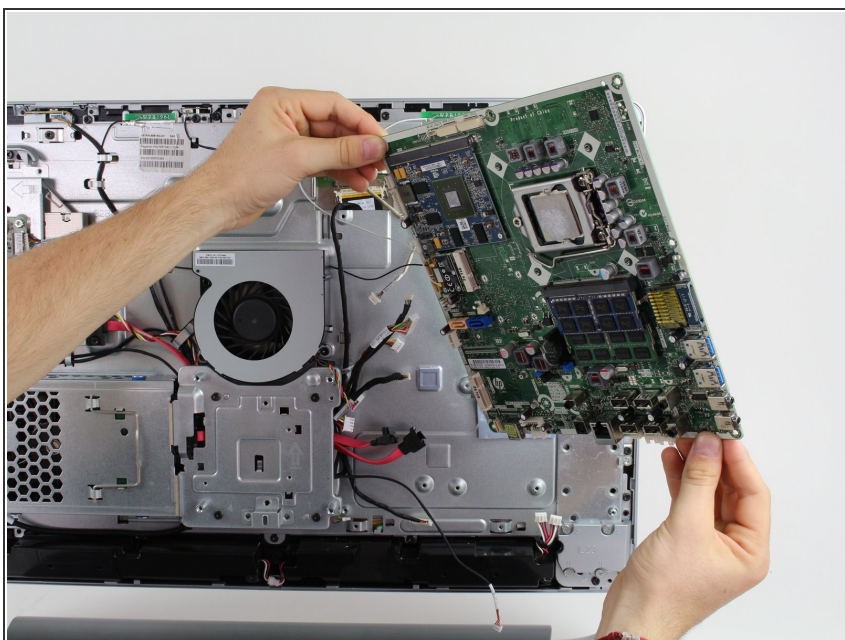


## Step 11



- Remove the ten 7mm T15 screws from the motherboard.

## Step 12



- Use your hands to gently remove the motherboard from the computer.
- ⓘ Be careful of wires in the way. If you realize something is still connected, put the motherboard back, remove the connection, and try again.

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