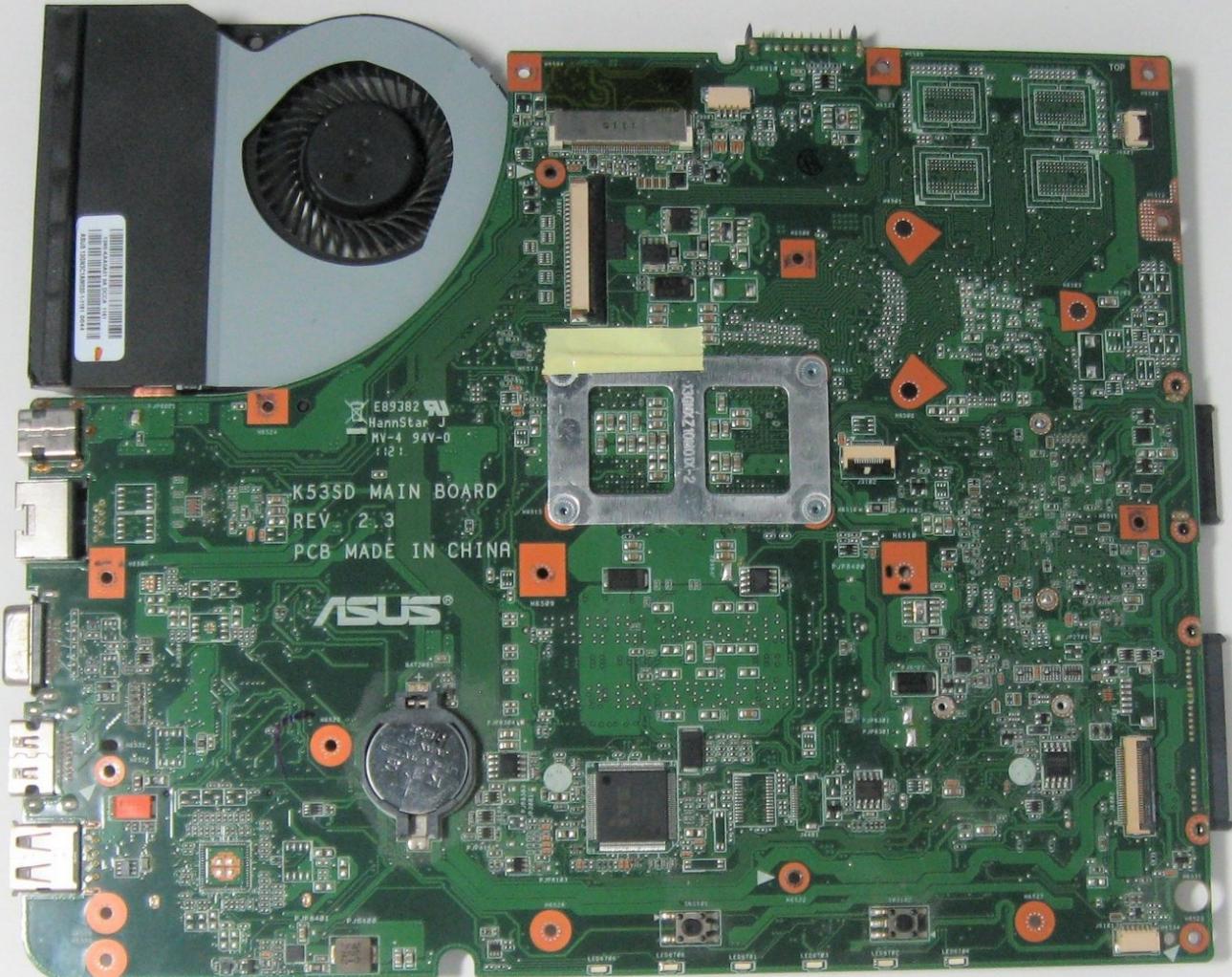




# Asus K53E-BBR7 Motherboard Replacement

This guide will show you how to replace the motherboard of your laptop.

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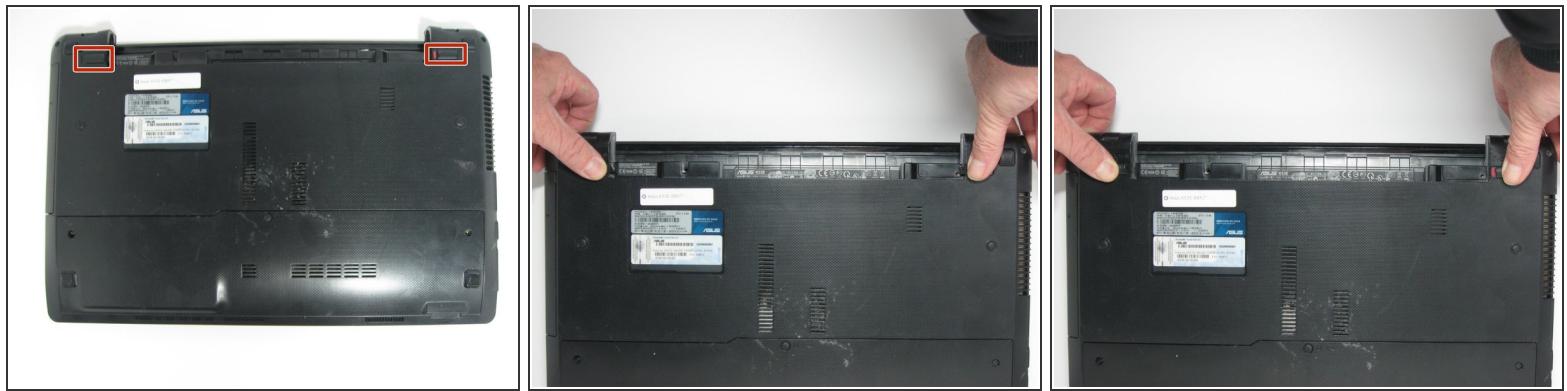
## INTRODUCTION

If your laptop is failing to boot properly, your motherboard may be to blame. Replacing your motherboard using this guide will ensure that your laptop operates successfully.

### TOOLS:

- [iFixit Opening Tools](#) (1)
- [Phillips #0 Screwdriver](#) (1)

## Step 1 — Motherboard



- Turn off the computer and disconnect the charging cable from the laptop.
- Push the two locking mechanisms at the top of the laptop outward and pull the battery away from the laptop.

*(i)* This laptop is missing the battery.

## Step 2



- Remove the two black 7.0 mm Phillips #0 screws on the back panel using your Phillips #0 screwdriver.
- Using your hands, slide the cover downwards and remove it from the laptop.

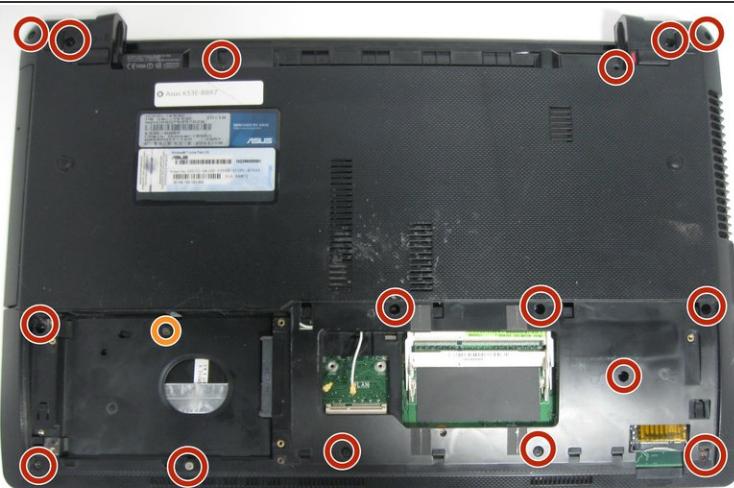
## Step 3



- Using your Phillips #0 screwdriver, remove the four 7.0 mm Phillips #0 screws that are securing your hard drive into place.
- Gently lift the hard drive out of its case using your hands.

*(i)* This device is missing the hard drive.

## Step 4



- Remove the following seventeen screws from the back panel of your laptop using your Phillips #0 screwdriver:
  - Sixteen black 7.0 mm Phillips #0 screws.
  - One black 4.0 mm Phillips #0 screw.

## Step 5



- Using the blue prying tool, separate the keyboard from the palm rest by inserting the prying tool into each of the five tabs at the top of the keyboard.
- Slowly remove the keyboard by gently pulling the keyboard away from the palm rest.

**⚠** A silver ribbon cable is connected to the keyboard and the palm rest of the laptop. Removing the keyboard quickly may tear the silver ribbon cable, causing harm to your device.

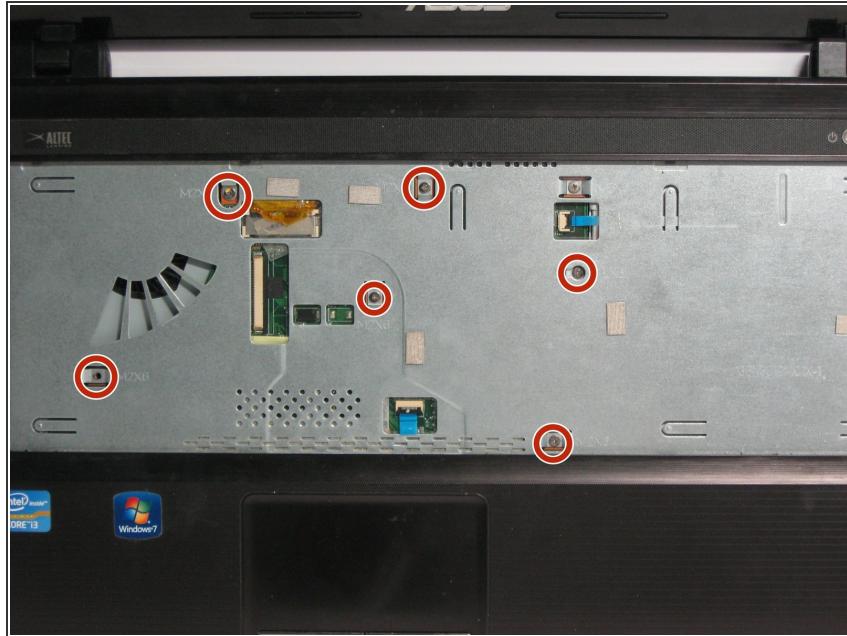
## Step 6



- Using your fingers, slowly remove the silver ribbon cable from the laptop by disconnecting it from its connector.

**⚠** Be careful when removing the ribbon. Pulling carelessly can cause damage to both the ribbon and the laptop.

## Step 7



- Remove the six silver 6.0 mm Phillips #0 screws using your Phillips #0 screwdriver.

## Step 8



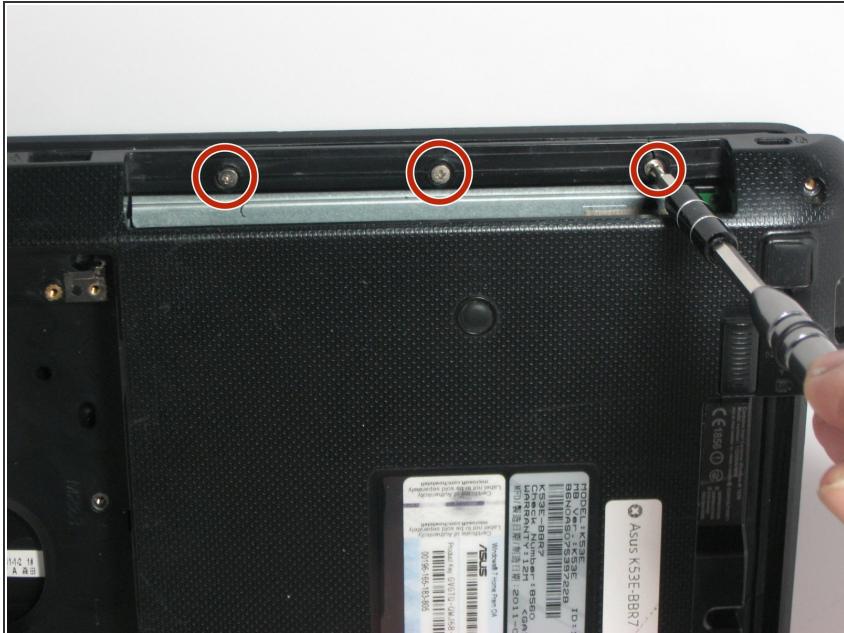
- Use your fingers to gently disconnect the following cables from your laptop:
  - Power button cable.
  - Touchpad cable.

## Step 9



- Remove the optical drive from the laptop by pulling it to the right until it has been fully detached from your laptop.

## Step 10



- Close the lid of the laptop and flip the laptop over to access the screws located beneath the optical drive.
- Remove the three silver 6.0 mm Phillips #0 screws from beneath the optical drive using your Phillips #0 screwdriver.

## Step 11



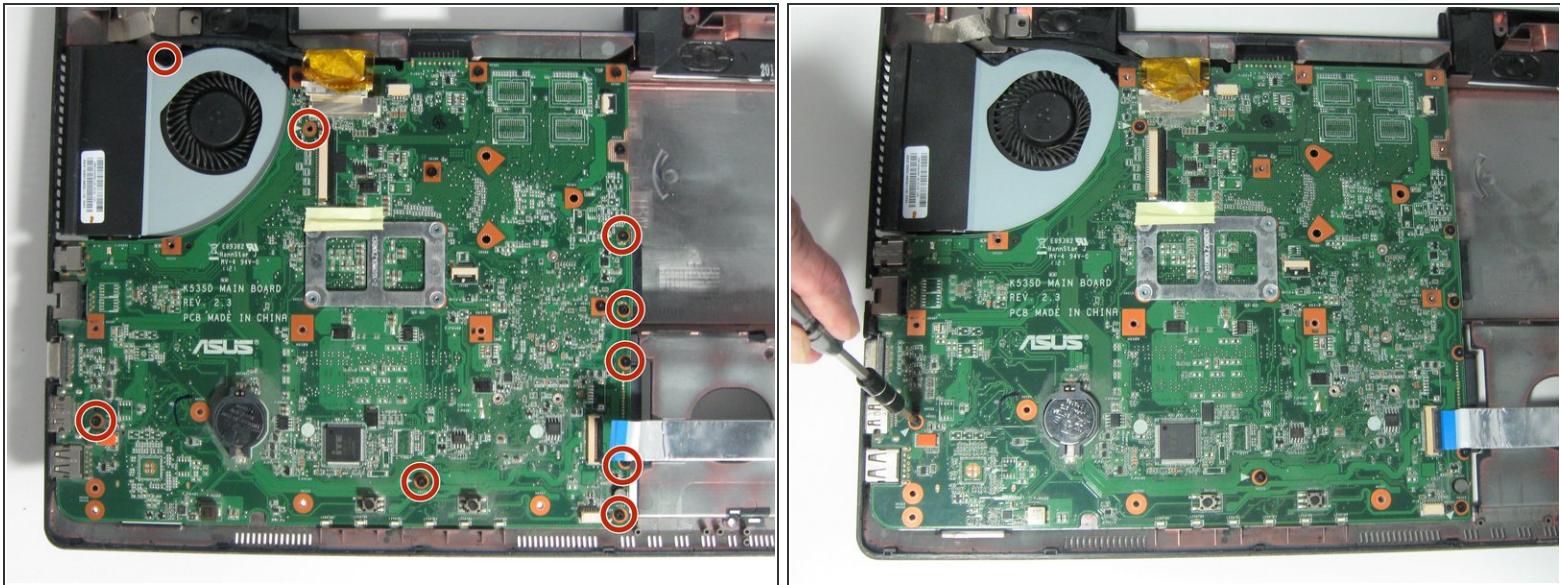
- Slide the blue prying tool between the palm rest and the base of the laptop to separate them.
- Carefully remove the palm rest from your device using your hands.

## Step 12



- Detach the gold video cable from the motherboard using your fingers.
- Using your fingers, detach the speaker cable from the motherboard.
- Slowly lift the blue tape from the motherboard and remove the i/o board cable.

## Step 13



- Remove nine 7.0 mm Phillips #0 screws from the motherboard using your Phillips #0 screwdriver.

## Step 14



- Use your hands to lift the motherboard from the laptop.

*(i)* The fan and several ports will be attached to the motherboard when it has been detached from the laptop.

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