Asus K53E-BBR7 Motherboard Replacement
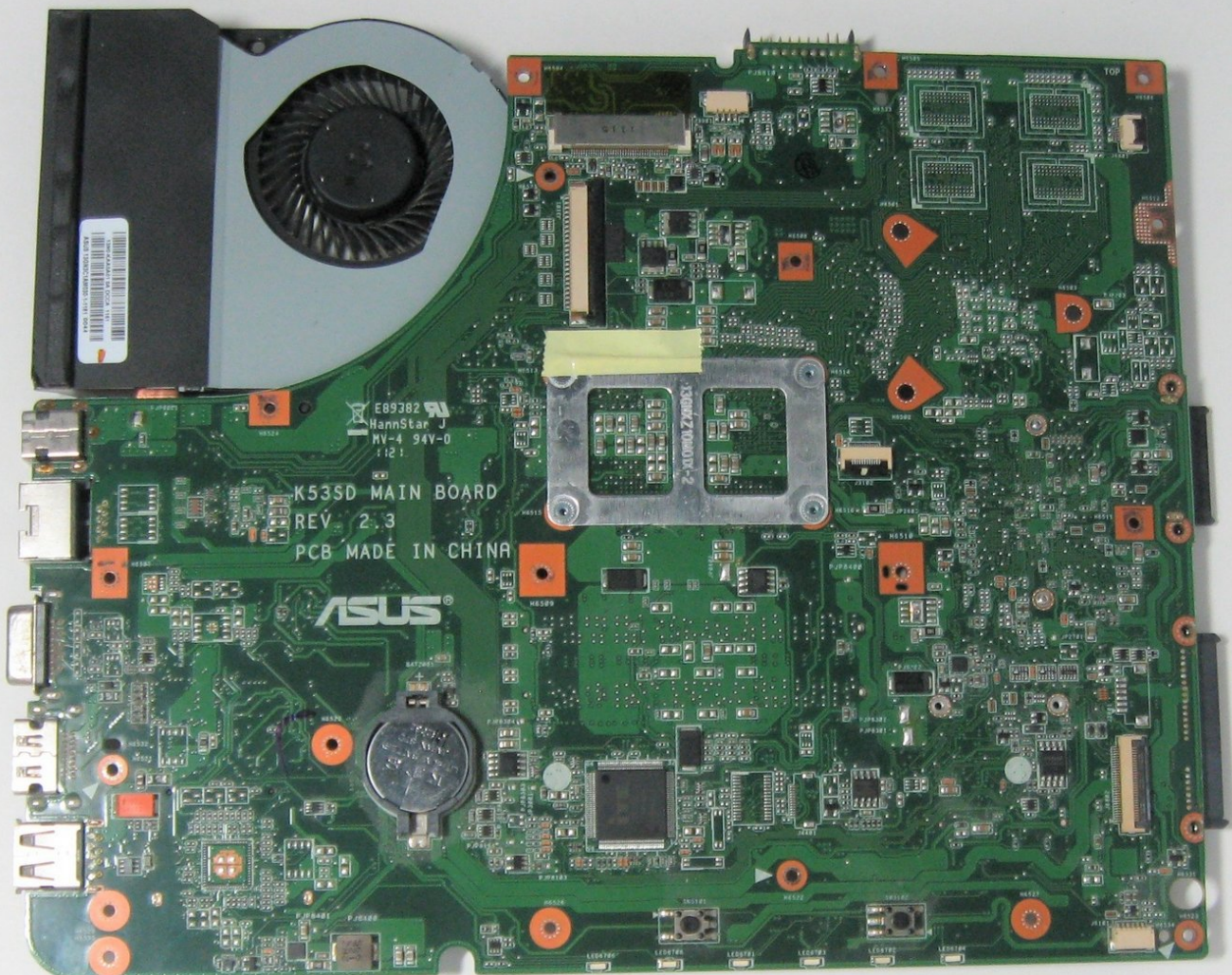
This guide will show you how to replace the motherboard of your laptop.

Written By: Matthew Molina

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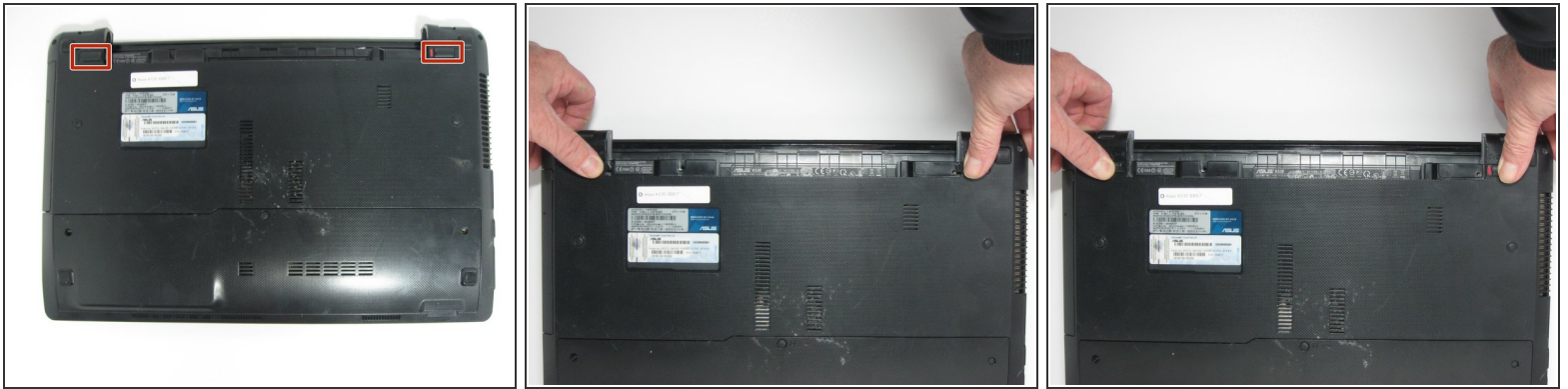© iFixit — CC BY-NC-SA   www.iFixit.com   Page 1 of 9

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)

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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.

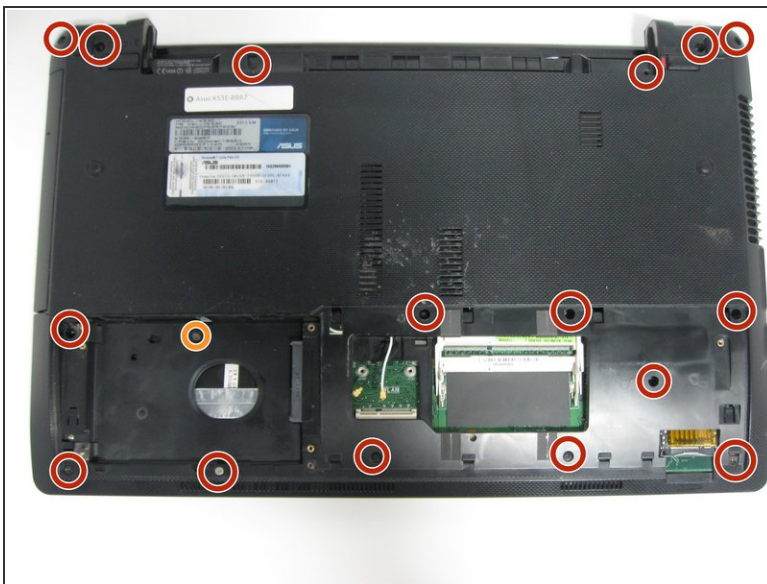- (i) This laptop is missing the battery.

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.

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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.

- ⓘ This device is missing the hard drive.
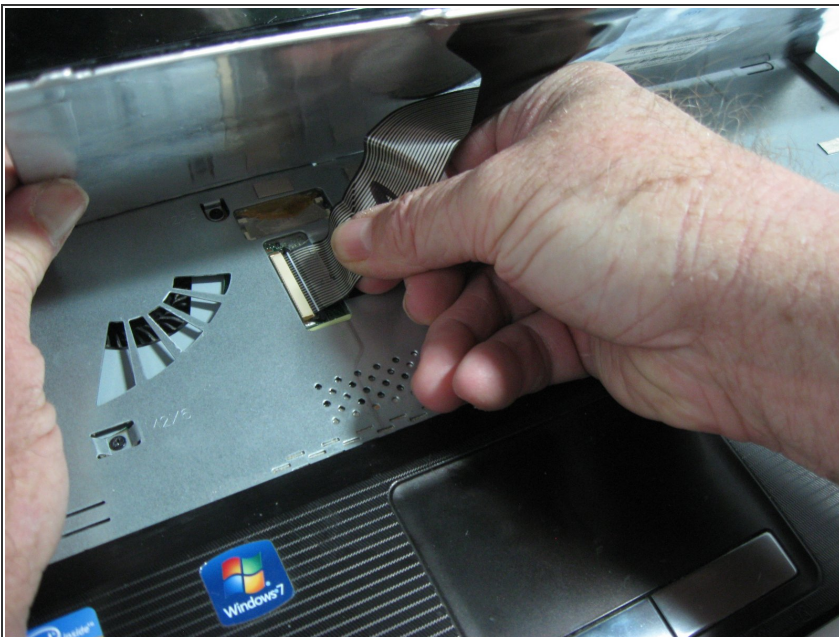
Step 4

- 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.
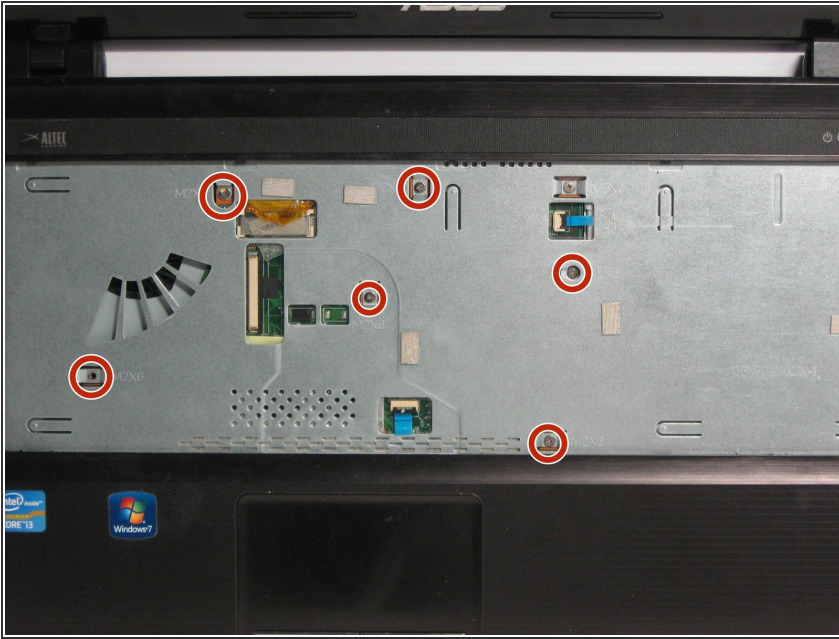
Step 5

- 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.
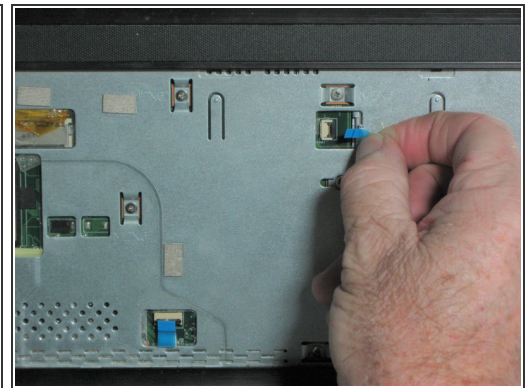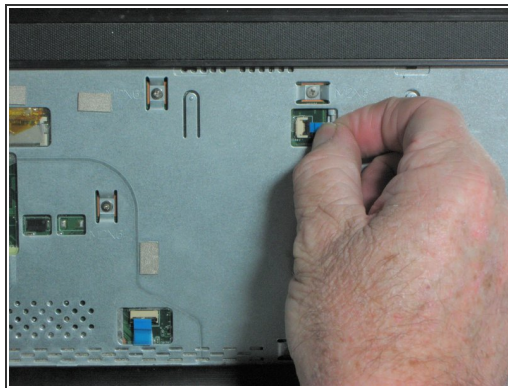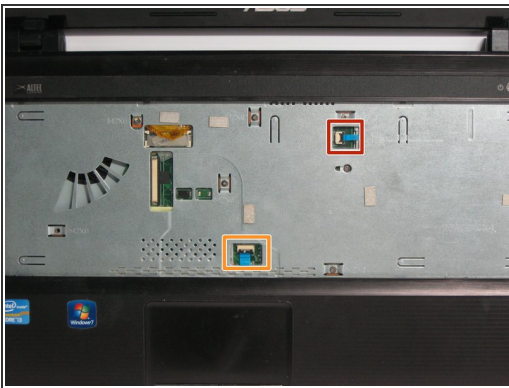
Step 6

- 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.
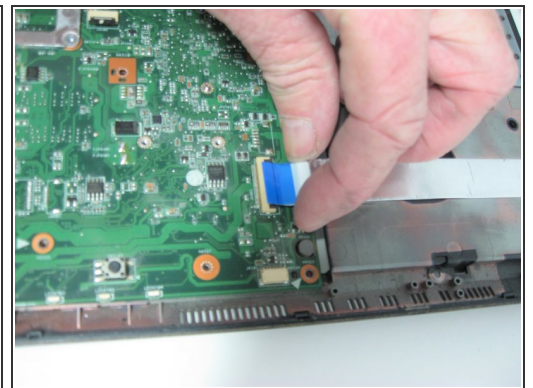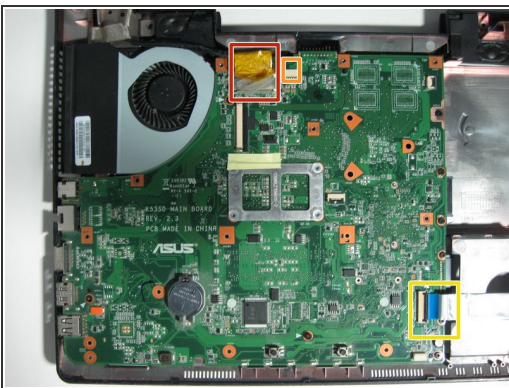
Step 10

- 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.

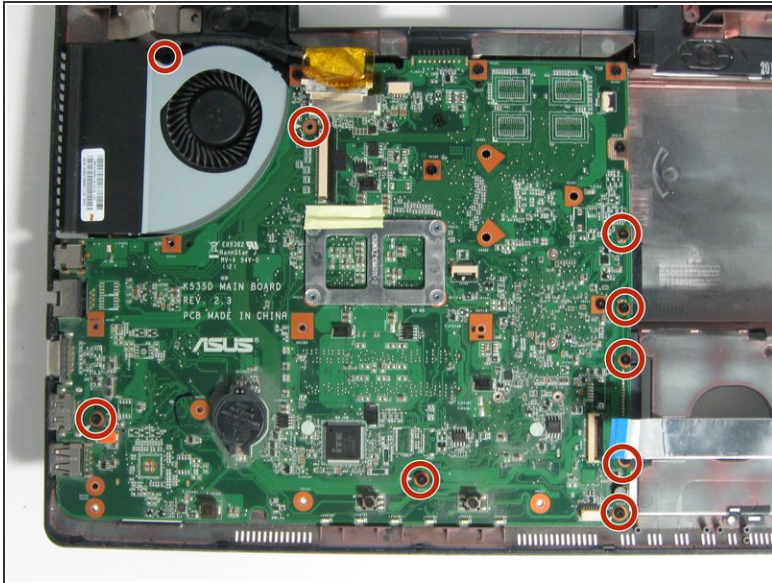This document was generated on 2020-11-19 08:59:01 AM (MST).

Step 11

- Slide the blue prying tool between the palm rest and the base of the laptop to separate them.

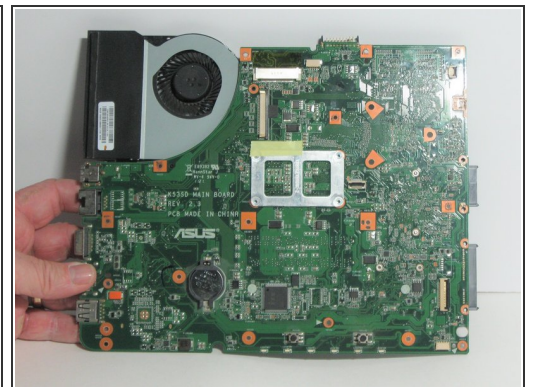- Carefully remove the palm rest from your device using your hands.

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.

- ⓘ 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.