



# Panasonic Toughbook CF-29 Keyboard Replacement

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## INTRODUCTION

This guide will show you how to remove the keyboard from the main unit.

### TOOLS:

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

## Step 1 — Battery



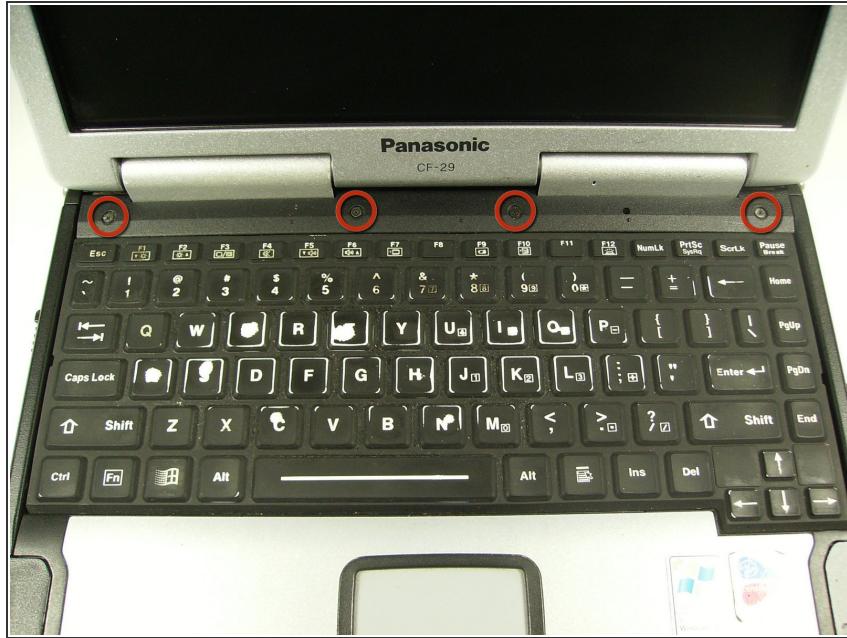
- Locate the bay door for the battery on the left side of the laptop.

## Step 2



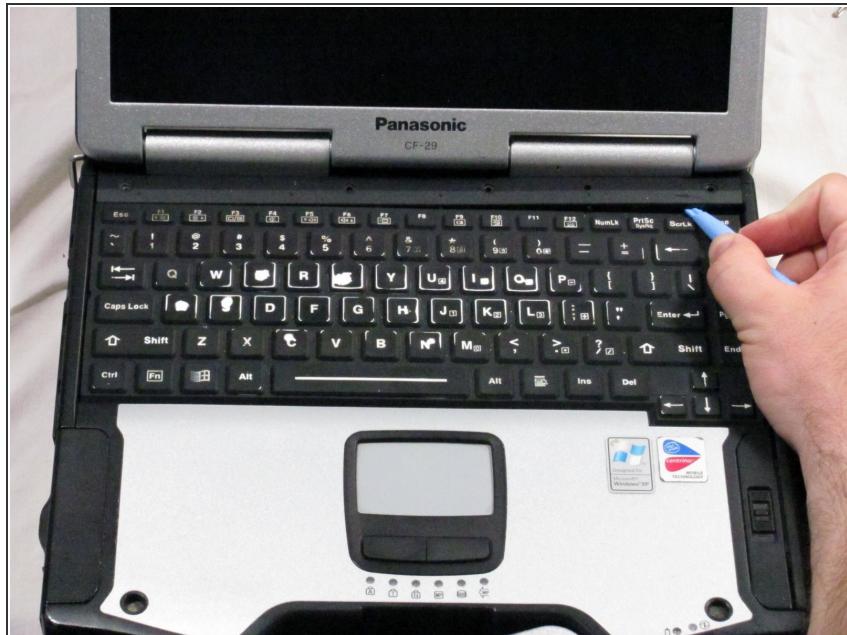
- Slide the latch to the right and then down to unlock it.
- Pull out the battery.

## Step 3 — Keyboard



- Remove the four screws above the keyboard using a Phillips #0 screwdriver.

## Step 4



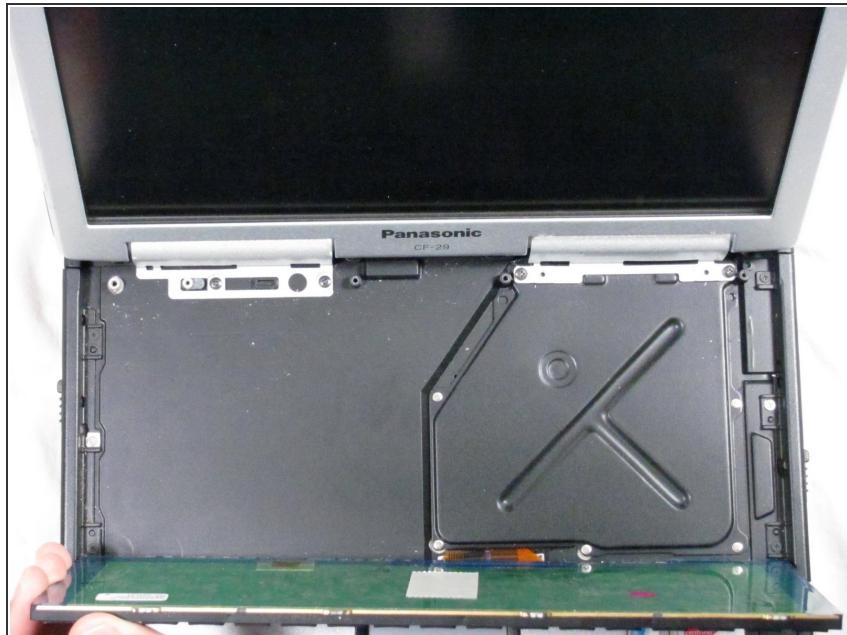
- Pry up the black panel covering the top of the keyboard.

## Step 5



- Remove the five silver screws shown.

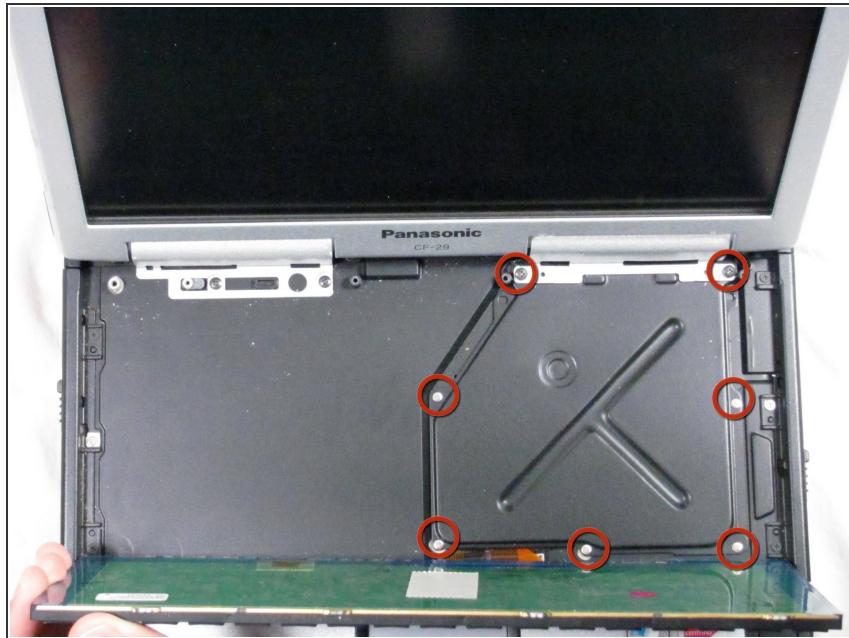
## Step 6



- Pull up keyboard and place it face down on the trackpad

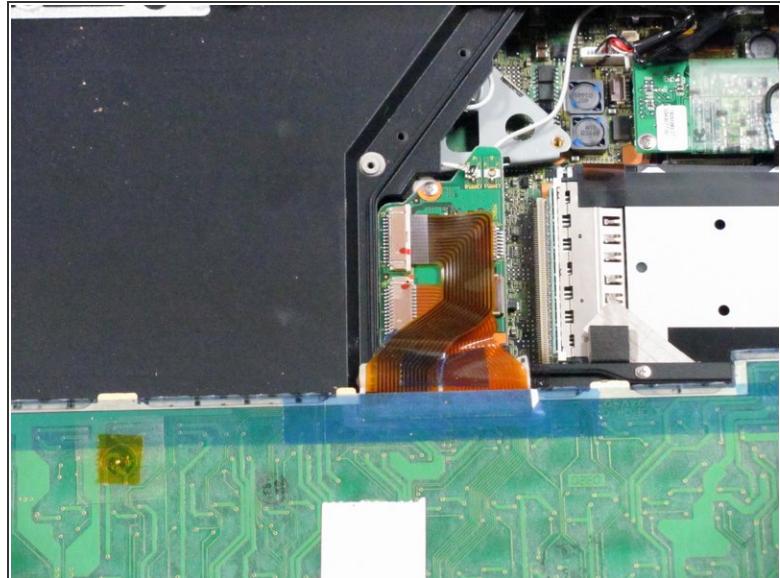
**⚠** Be careful not to put tension in the ribbon cables attached to the underside of the keyboard

## Step 7



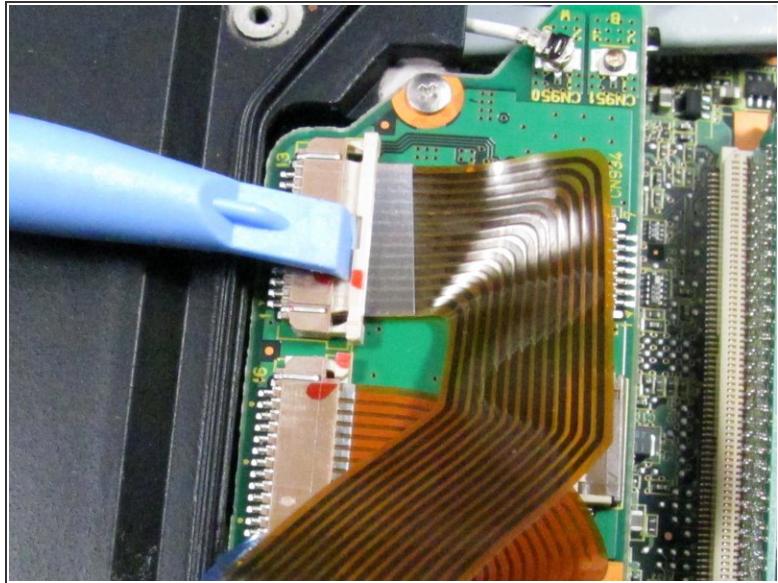
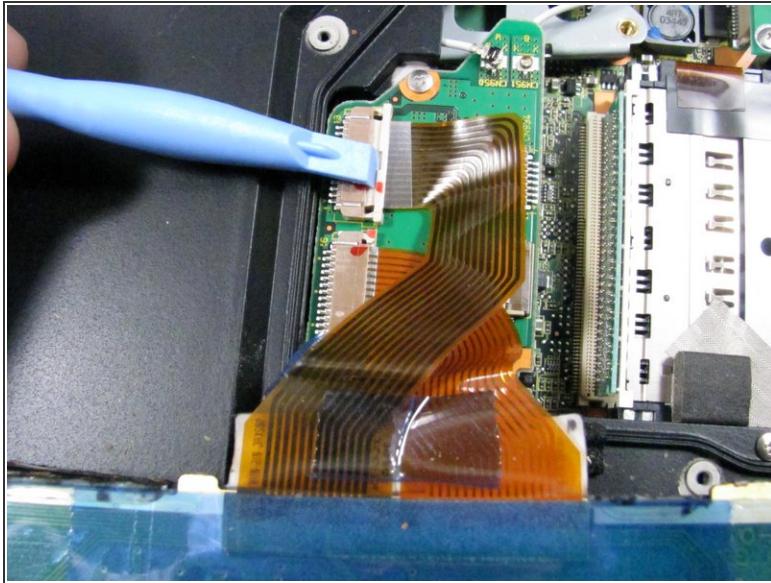
- Remove screws shown from cover plate

## Step 8



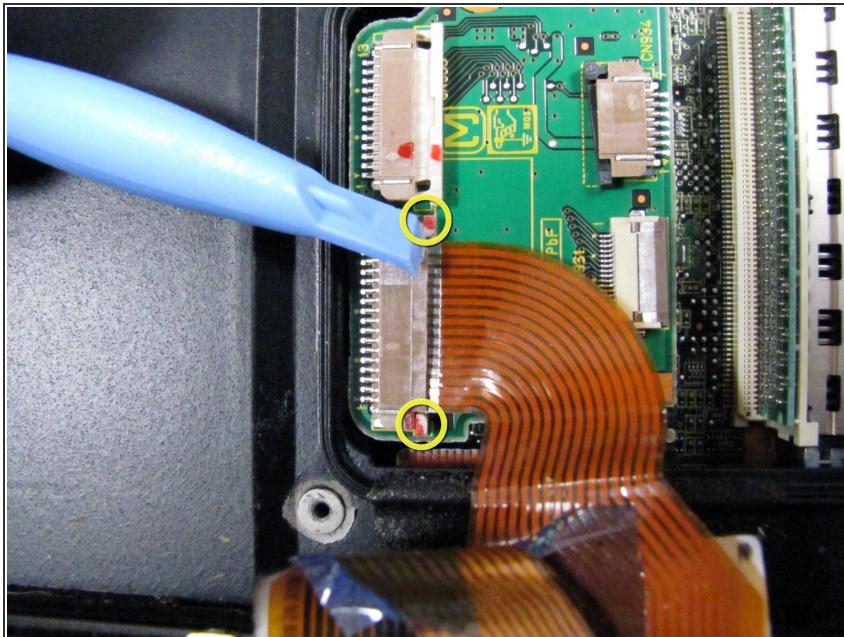
- Pull cover plate out of place revealing the ribbon cable connections to the motherboard

## Step 9



- Remove the ribbon cable farthest from you.
- Push the white tab (as shown in the second photo) to release the ribbon cable.

## Step 10



- Remove both ribbon cable by pulling 2 white tabs on either side of the cable to the right

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

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