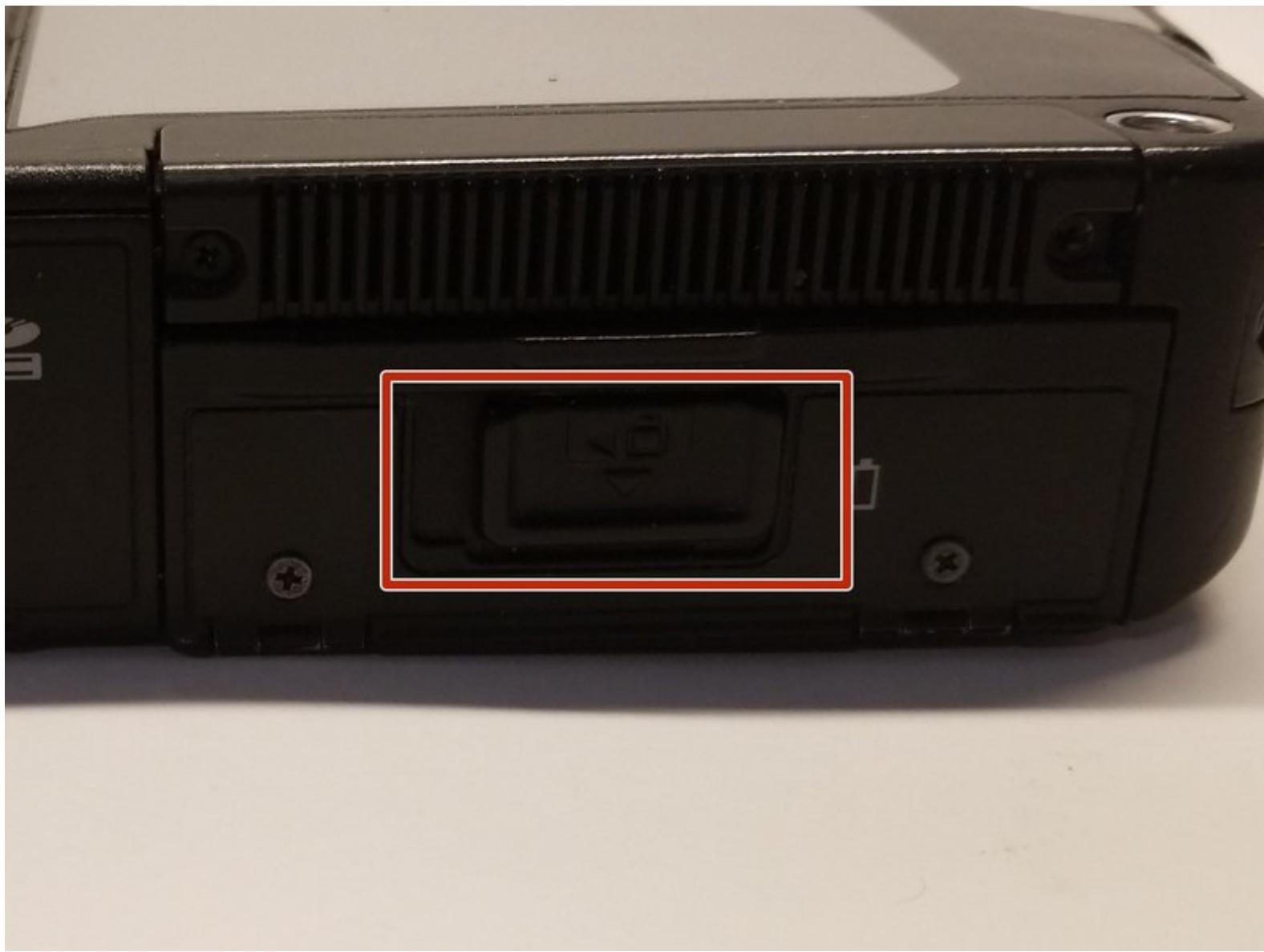




# Panasonic CF-31 Toughbook Keyboard Replacement

Guide for replacing keyboard in a Panasonic CF-31 Toughbook laptop.

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## INTRODUCTION

This is a guide for replacing a keyboard on the Panasonic CF-31 Toughbook laptop. The Panasonic CF-31 laptop is a fully rugged laptop designed to operate in environments not suitable for your normal laptop, such as extreme heat and cold, rain, dust, and a drop from a height of six feet or under. These conditions can cause components like the keyboard to malfunction, causing a need to repair or replace the keyboard. This repair guide will outline the steps to replacing the keyboard on the Panasonic CF-31 Laptop, the tools needed, and a list of parts needed to complete the repair.

### TOOLS:

- Phillips #2 Screwdriver (1)
- Spudger (1)

### PARTS:

- Backlit Keyboard for Panasonic CF-31 Toughbook (1)

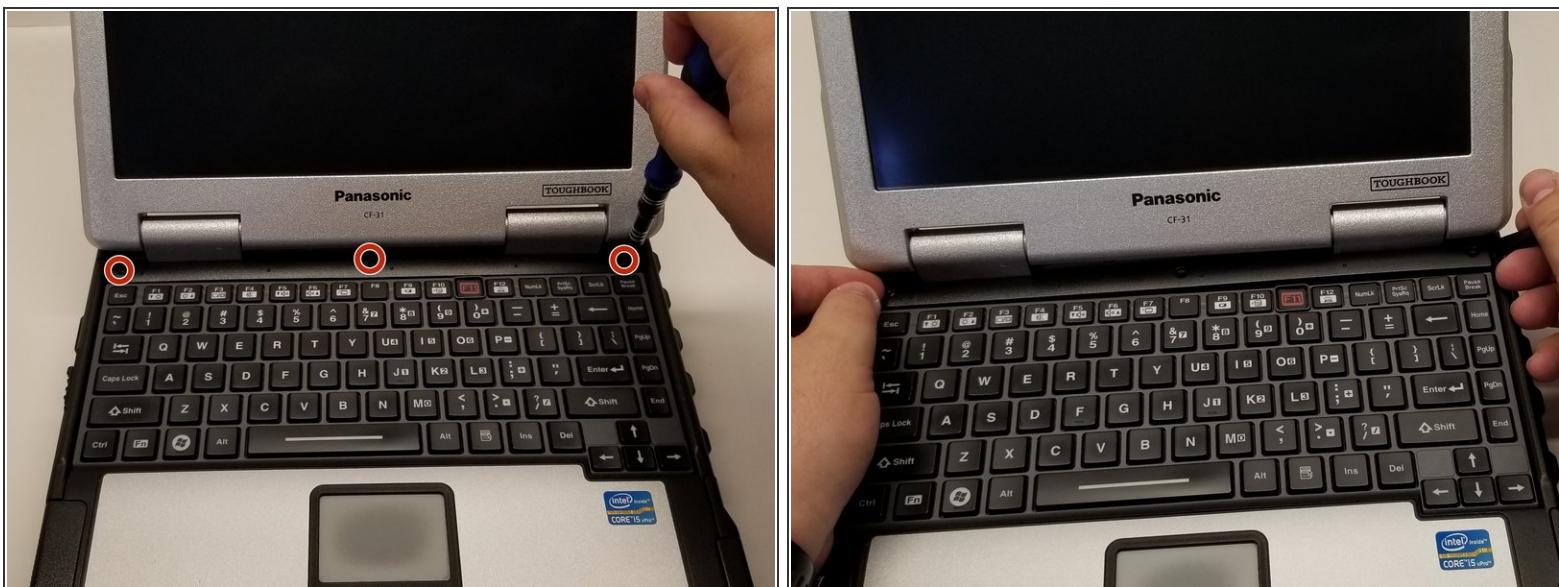
*Part Number # CF-WKB293AM*

## Step 1 — Keyboard



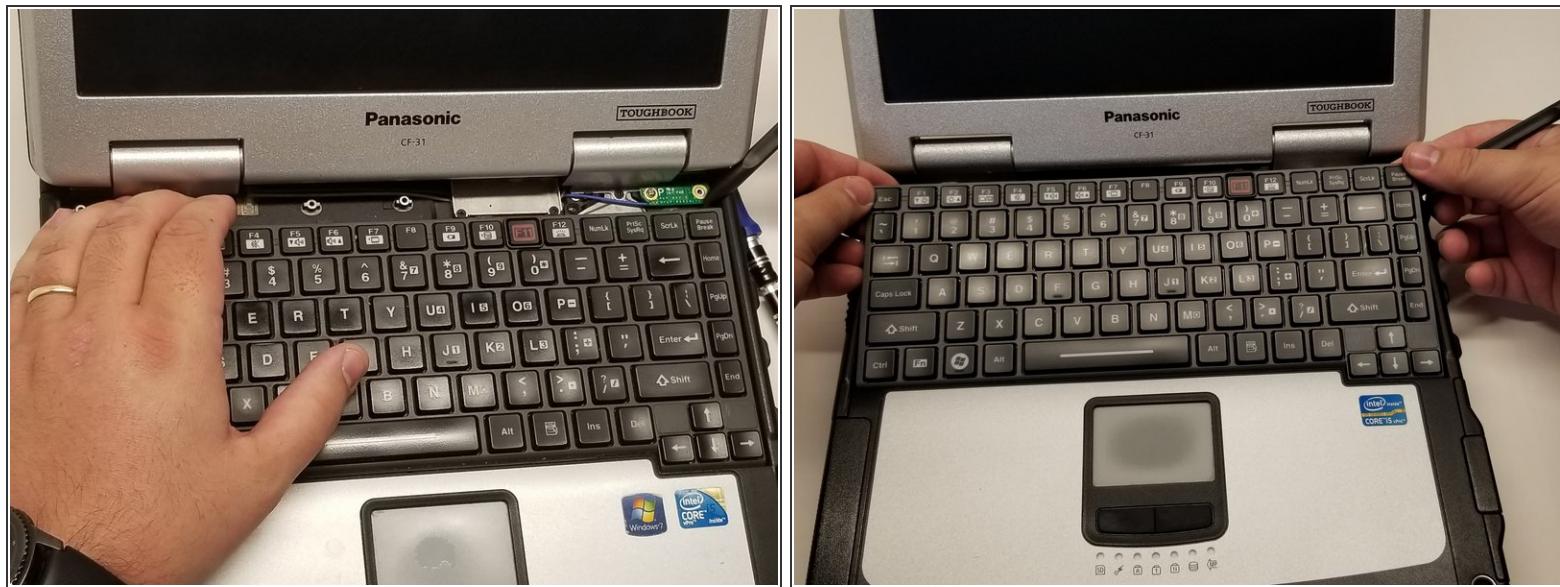
- Open the battery compartment by pulling the tab forward and then down.
- Open the compartment door by pushing down.
- Use the plastic tab to pull the battery out of the compartment.

## Step 2



- Use a Phillips #2 screwdriver to remove the three screws from the bezel.
- Use a nylon spudger to remove the bezel.

## Step 3



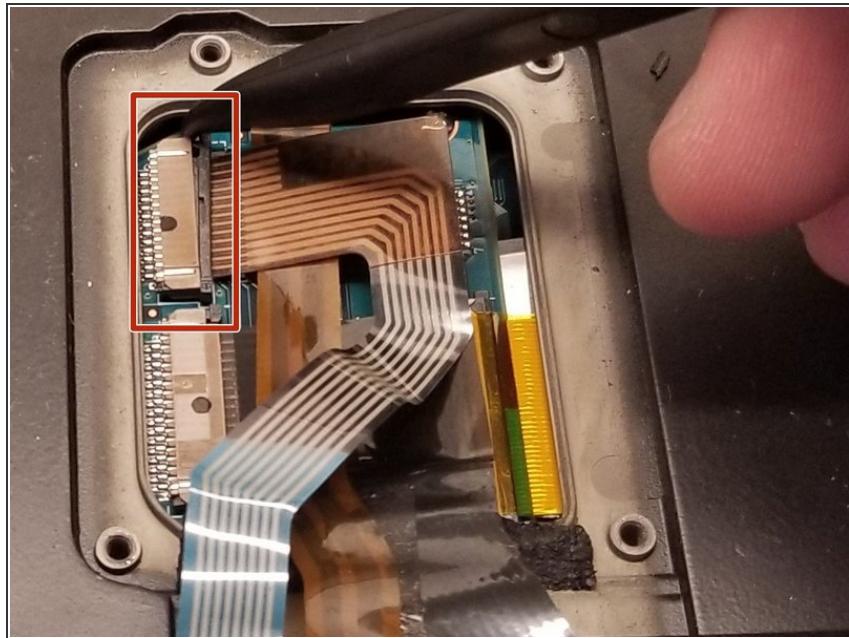
- Use a nylon spudger to lift each corner of the keyboard.
- Use your hands and gently pull back to remove the keyboard.

## Step 4



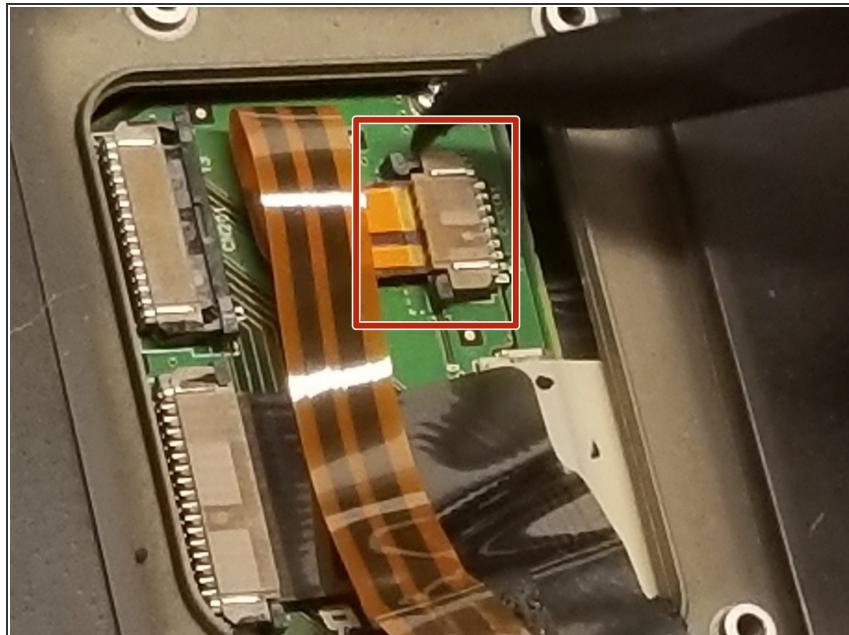
- Use a Phillips # 2 screwdriver to remove the four screws securing the keyboard shield.
- Remove the keyboard shield.

## Step 5



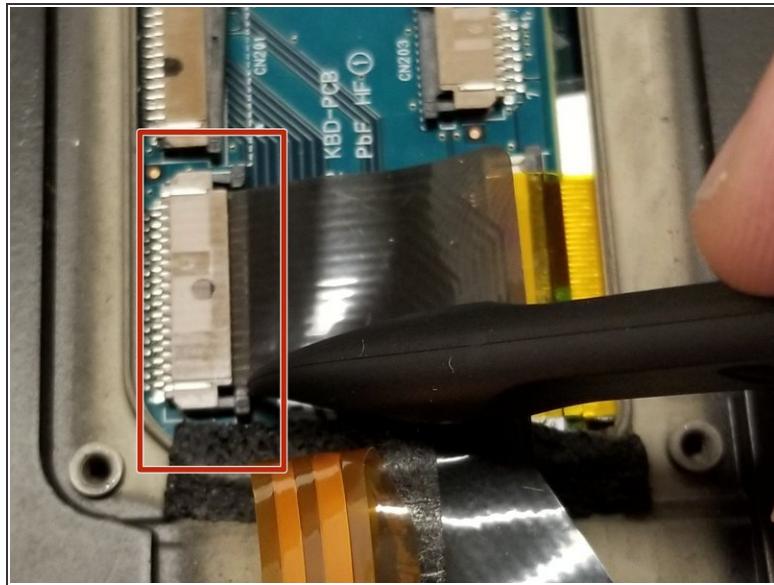
- Remove the top left ribbon cable using a nylon spudger to pull the top and bottom tabs right.

## Step 6



- Remove the top right ribbon cable using a nylon spudger and push the top and bottom tabs left.

## Step 7



- Remove the bottom left ribbon cable using a nylon spudger and push the top and bottom tabs right.

To reassemble the Panasonic CF-31 Toughbook Laptop, follow these instructions in reverse order.