



# Motorola V3i Teardown

A short Teardown of my old Motorola V3i mobilephone.

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## INTRODUCTION

A Motorola V3i it's from the "RAZR" series.

The V3i had an improved camera resolution with 1,3Mpix and a external Memoryslot (MicroSD) for additional storage. Even if it had several problems with the keyboard and handling, it's one of the most sold mobilephones in the world.

### **TOOLS:**

- [iFixit Opening Tools](#) (1)
- [T5 Torx Screwdriver](#) (1)

## Step 1 — Motorola V3i Teardown



- A Motorola V3i!
- Let's see what's inside...

## Step 2



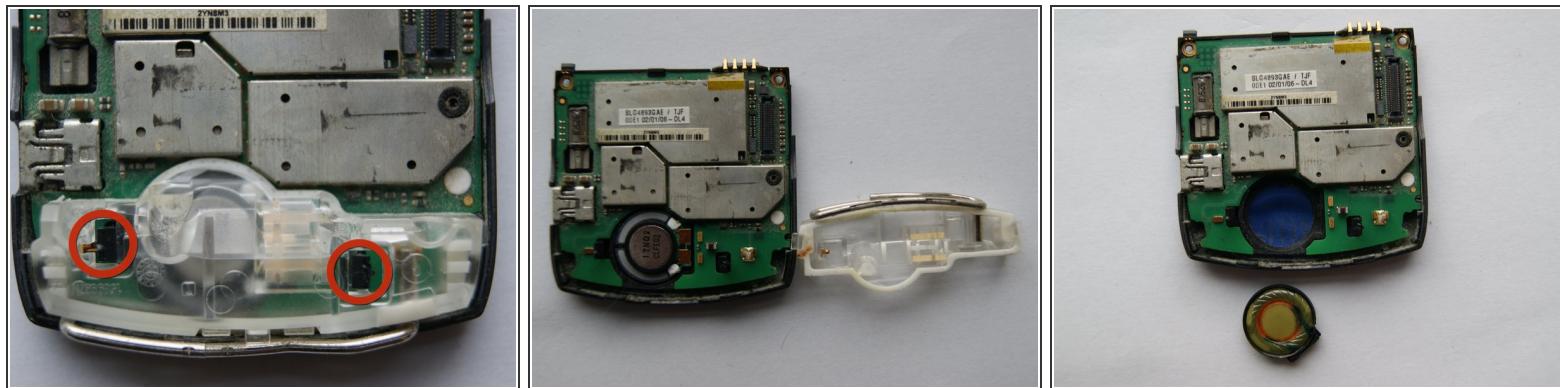
- Let's turn it and take out the battery.
- Remove these two screws.

## Step 3



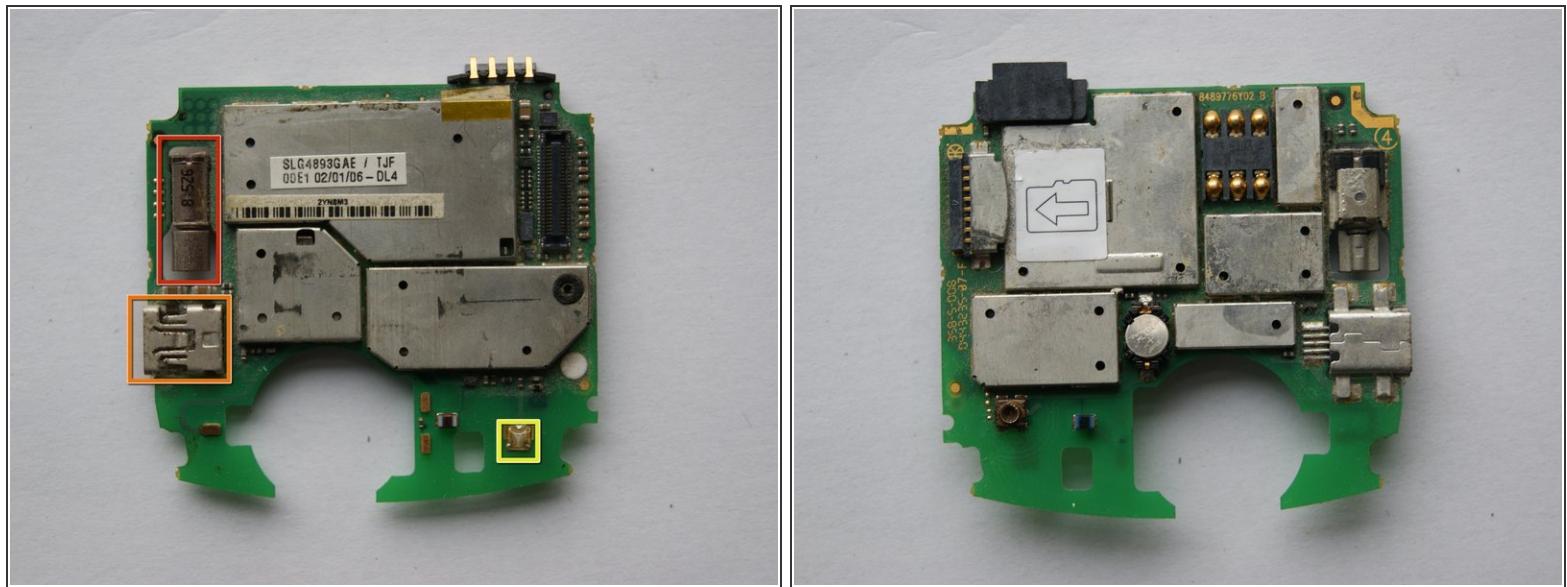
- Now you can easily flip the cover.

## Step 4



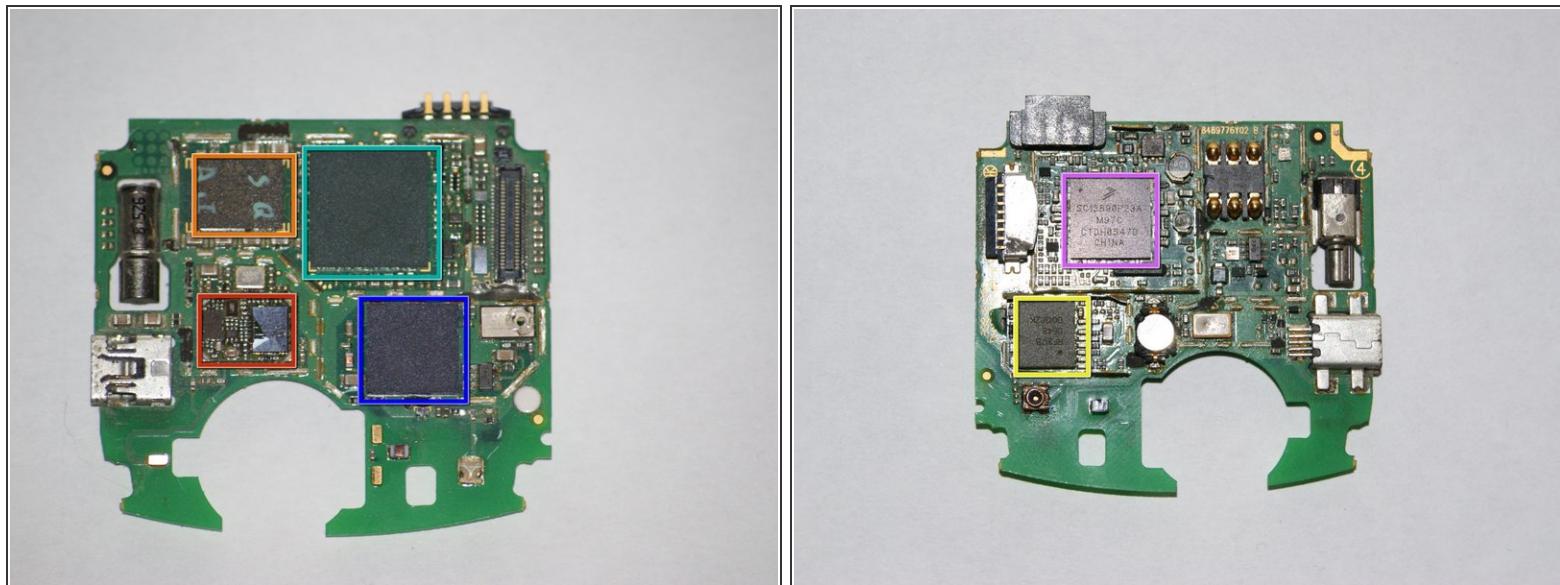
- You need to detach these two plastic lashes from the surrounding.
- Now you can remove this transparent plastic case.
- Now you can take out the speaker.
- The metal thing on the end of the picture is the antenna.

## Step 5



- So, that's the board.
- Vibra motor.
- Mini USB.
- Connector for the antenna.
- After I took these EMI shields away it looks like this...

## Step 6



- Bluetooth chip by Broadcom.
- 32Mbit PSRAM by STMicroelectronics.
- Baseband Processor (Main Processor) by Freescale (90nm structure).
- RF Transmitter by RF Micro Devices.
- Battery controller by Freescale.
- Quad-Band Transmit Module by RF Micro Devices.

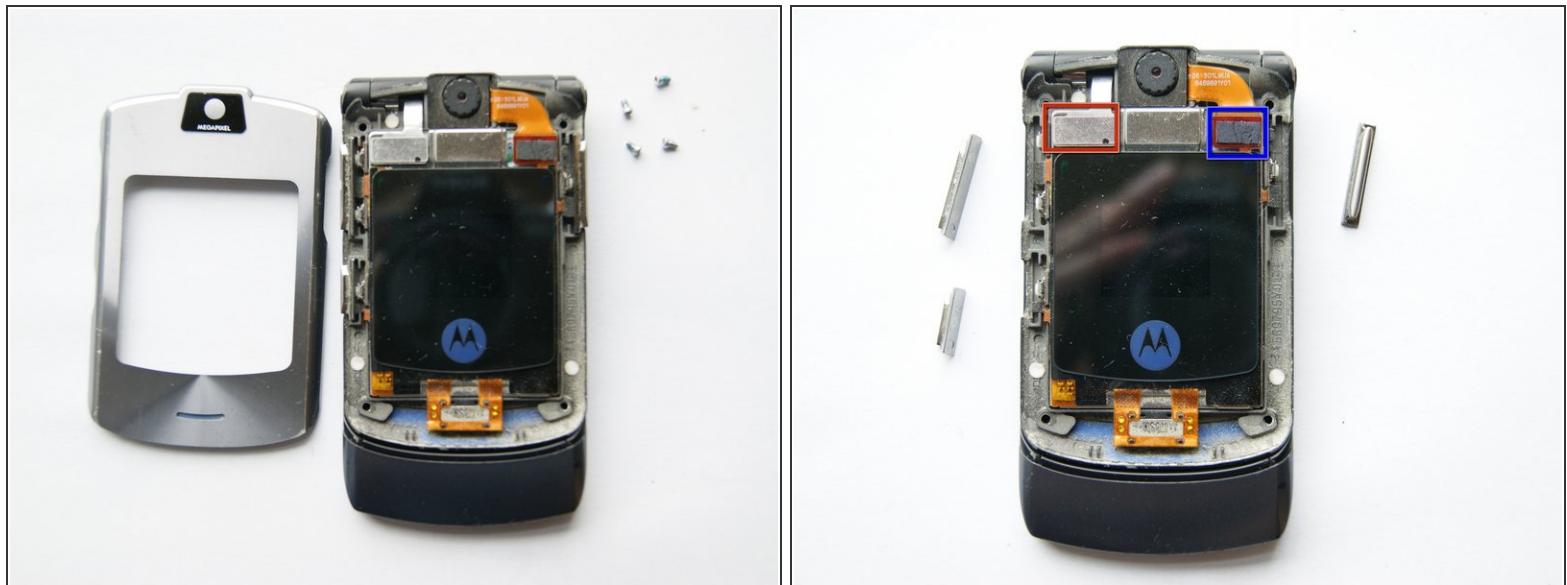
## Step 7



- Remove these 4 rubbers.
- Then remove the four torx screws.

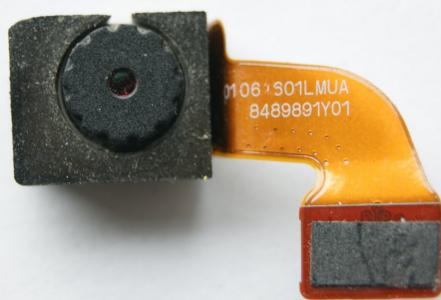
**⚠** You can easily lose these rubbers. (That's why I have only 3 of them...)

## Step 8



- Flip the device and you can remove the top housing.
- Remove the three buttons on the side of the device.
- Remove the connector to the mainboard...
- and to the camera.

## Step 9



- Remove the camera by lifting it up.
- That's a 1,3Mpix camera!

## Step 10

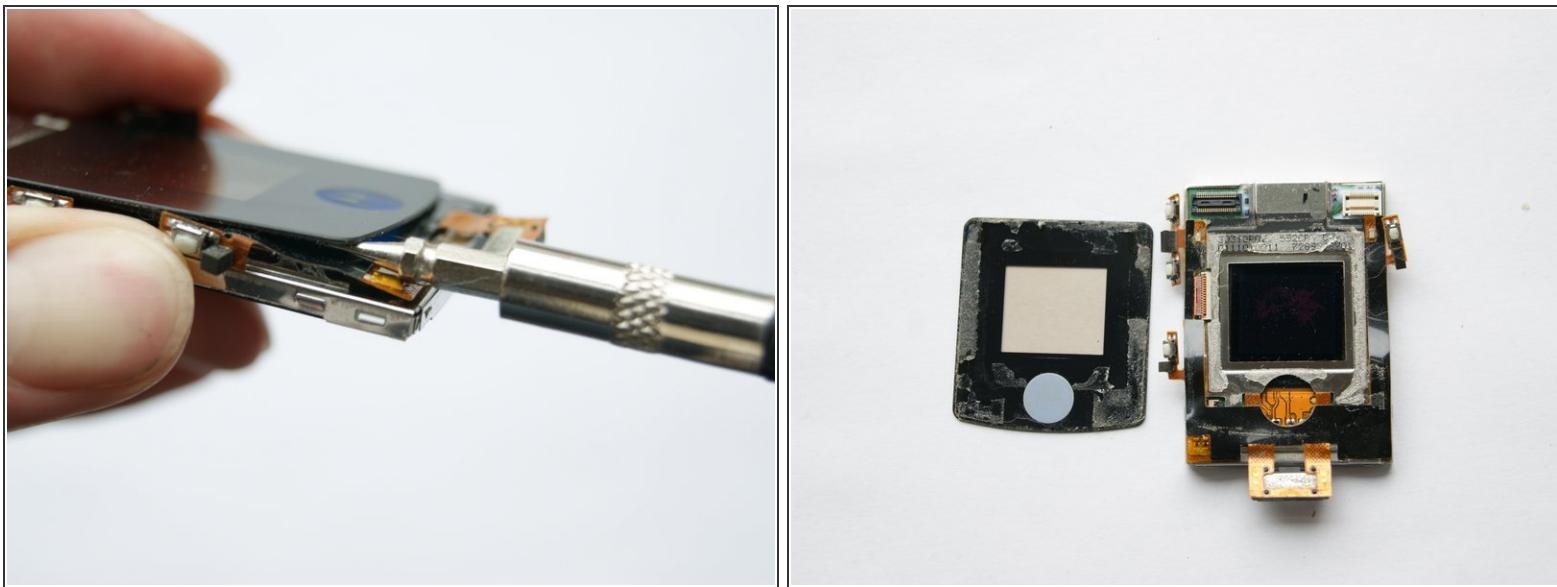


- Lift up the speaker.

! Then, that's a tricky part, remove all the buttons around the screen housing. Caution: They are really thin and they easily break!

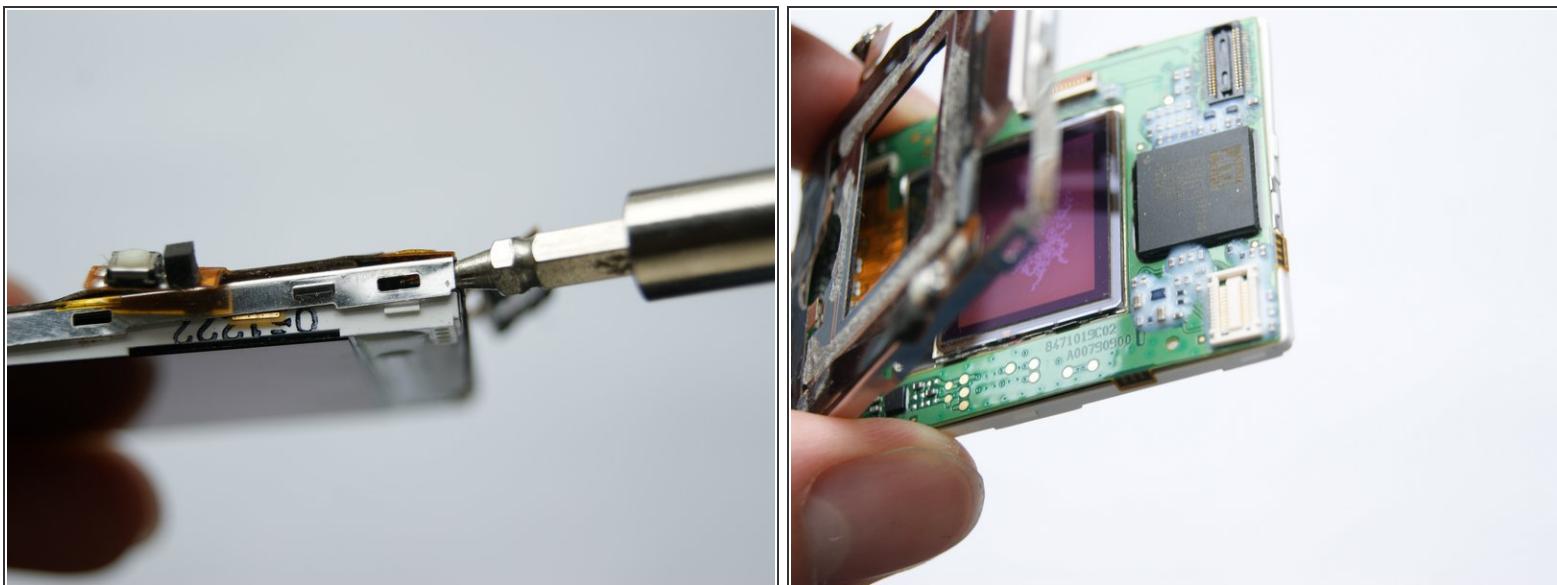
- After you did this tricky part you can lift the top of the phone away.

## Step 11



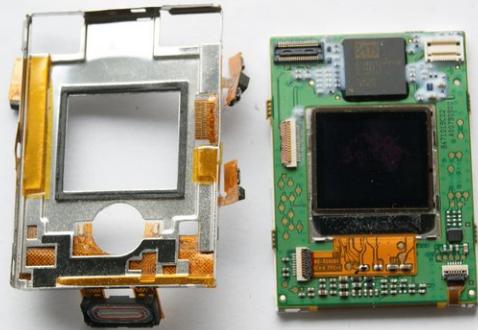
- Now lift up the front glass from the top of the device. It's held with adhesives.
- After you did this it should look like this.

## Step 12



- Around the screen there are some lashes. Detach them to release the screen of the metal housing.
- Then you can lift the metal housing up.

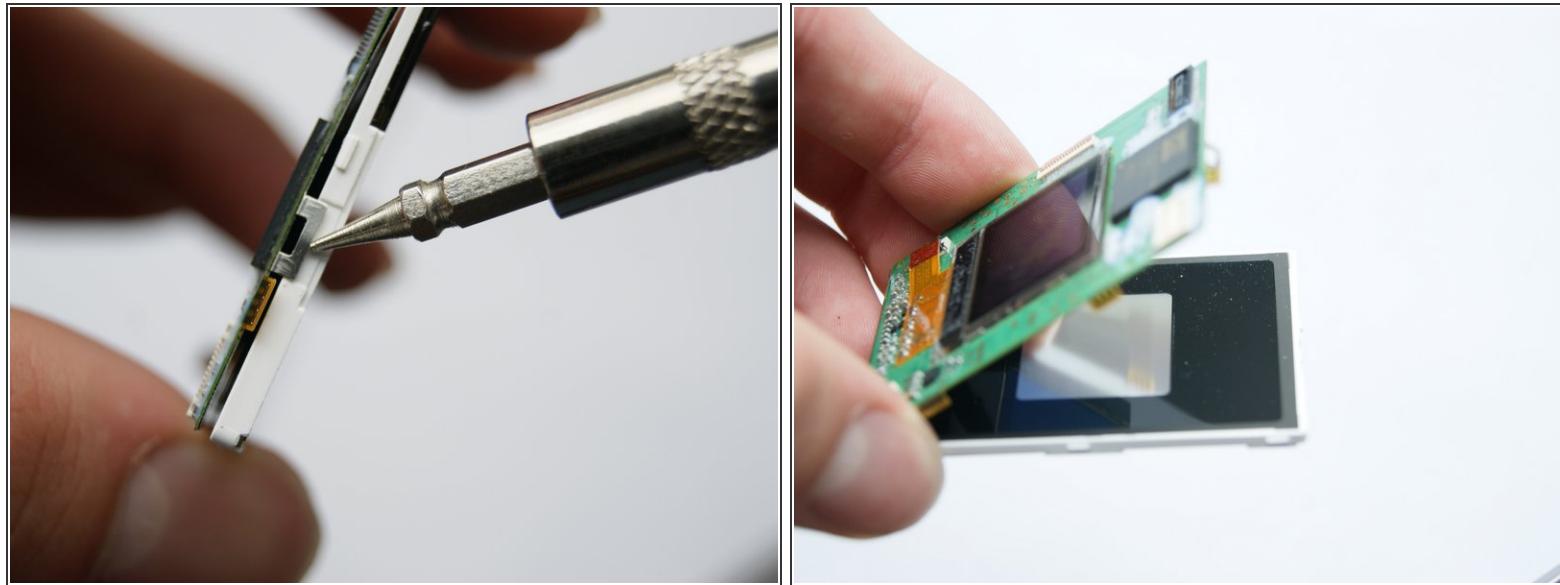
## Step 13



⚠ The metal housing is very fragile!

- an ATI Imageon chip! It's a multimedia co-processor, it is used for record video and mobile gaming. It support up to a 2Mpix camera.

## Step 14



- Again there's a small lash on the bottom of the front screen housing.
- After that you can remove the front screen with the PCB.

## Step 15



- The front screen.

*(i)* Yes, my front screen has some dead pixels. (They are pink?!)

## Step 16



- Thank you for reading my Teardown:)

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