



Nvidia Shield Controller Teardown

Nvidia Shield Normal Controller(no Display)

Written By: 13314877





TOOLS:

- [T6 Torx Screwdriver](#) (1)
-

Step 1 — Nvidia Shield Controller Teardown



- Nvidia Shield Normal Controller , without Display , so it's just a controller if you don't have other shield device
- Micro-USB 2.0
- 3.5 mm stereo headphone jack
- Charge indicator
- Still don't know how this controller connected to PC without cables, the controller can be connected to a Nvidia Shield through WiFi but no idea if this works with pc.

Step 2



- Flipping over the device reveals 6 screws. No hidden screws here.
 - 6*screws, use T7 screwdriver for all of screws.
- Careful, you will need some force to open the clips holding the device together.
- Once you are inside the device remove the two ribbon cables.

Step 3 — Vibration Motors



- Remove two cable for the vibration motors and one cable for the battery.
 - There are 2 Vibration motors

Step 4 — Logic Board



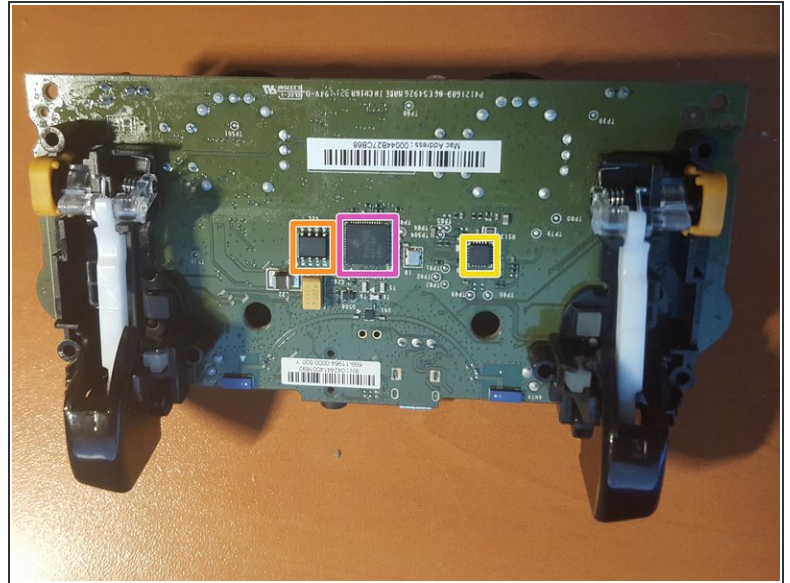
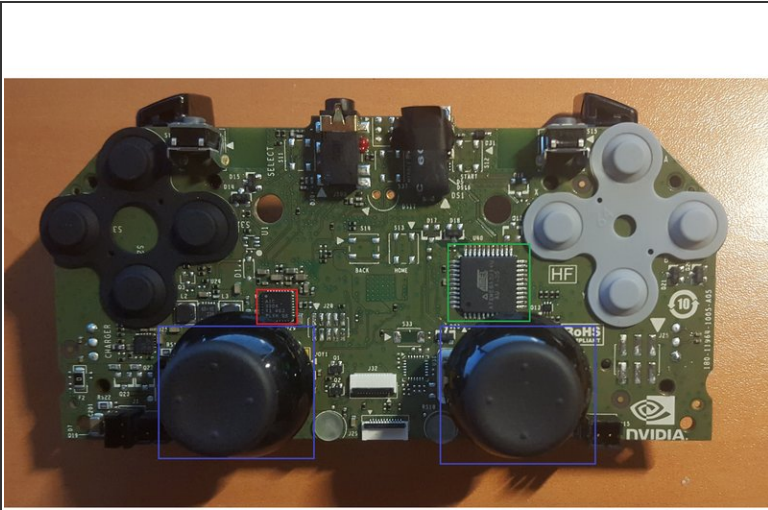
- Remove the two screws holding the logic board to the device.
- Carefully remove the logic board.

Step 5 — Battery



- we can found battery part under the motherboard
 - Screw*4
- LC18650 Lithium-ion Battery: 3.6V/2200mAh/7.92Wh

Step 6 — Motherboard



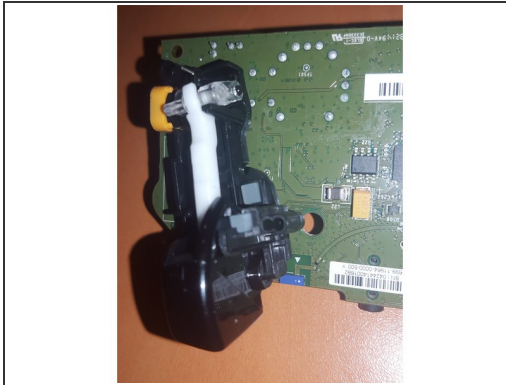
Main PCB - Front:

- TLV320AIC3204 (Very Low-Power Stereo Audio CODEC)
- Atmel ATXMEGA32A4U-AU (8-bit Microcontroller)
- Potentiometers

Main PCB - Back:

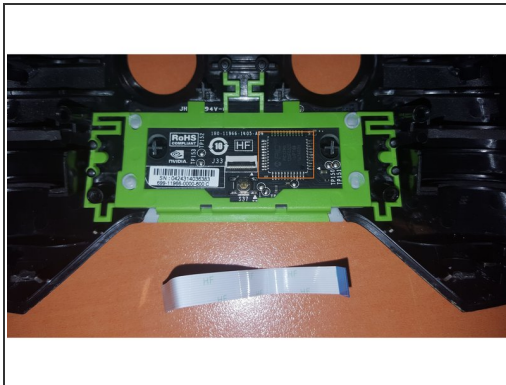
- Microchip SST25WF020A (SPI Flash 2Mbit 1.8V)
- Ozmo2000 431-B0 (WiFi Integrated Chip)
- ADG3 3088CP (Unknown)

Step 7 — LT&RT



- Remove 6*screw
- careful , don't broke the potentiometer

Step 8



- cover part
- 4*screw
- PIC32MX120F032D-I/PT (32-bit Microcontroller)
- PIC18F26K22-I/ML (8-bit Microcontroller)