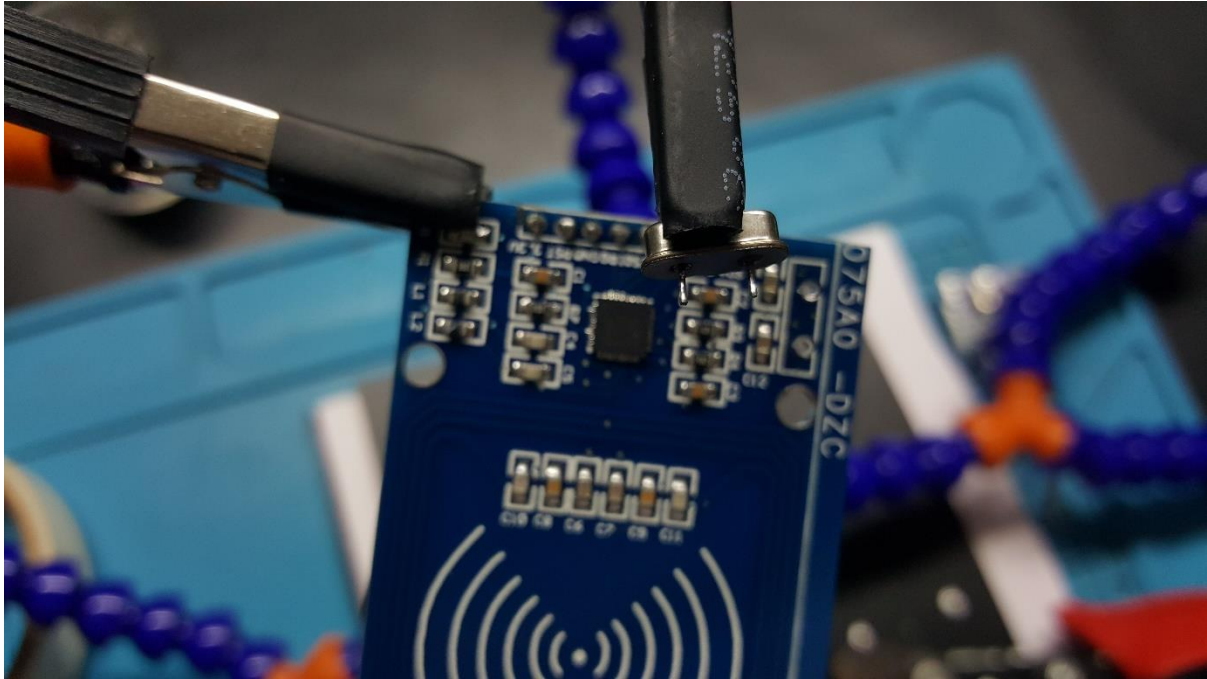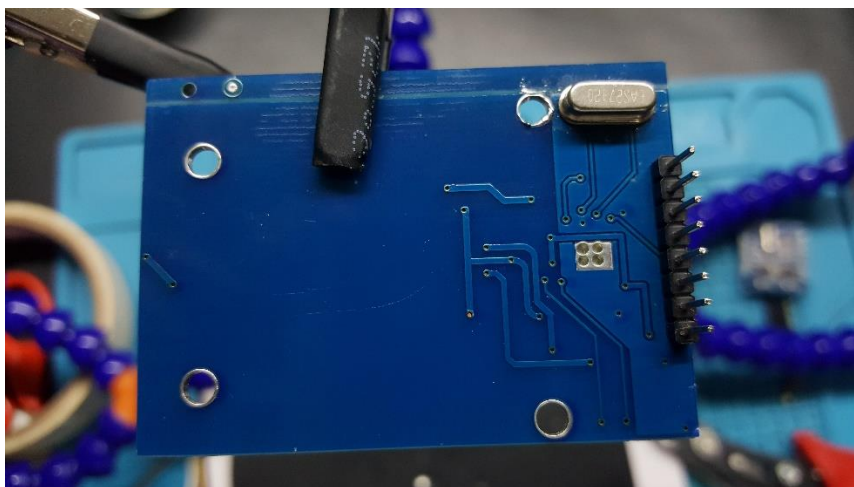# 3.1: Making the Security Module

3.1.1:

Desolder the oscillator from the RFID module : In order for the RFID module to be flush against the enclosure.
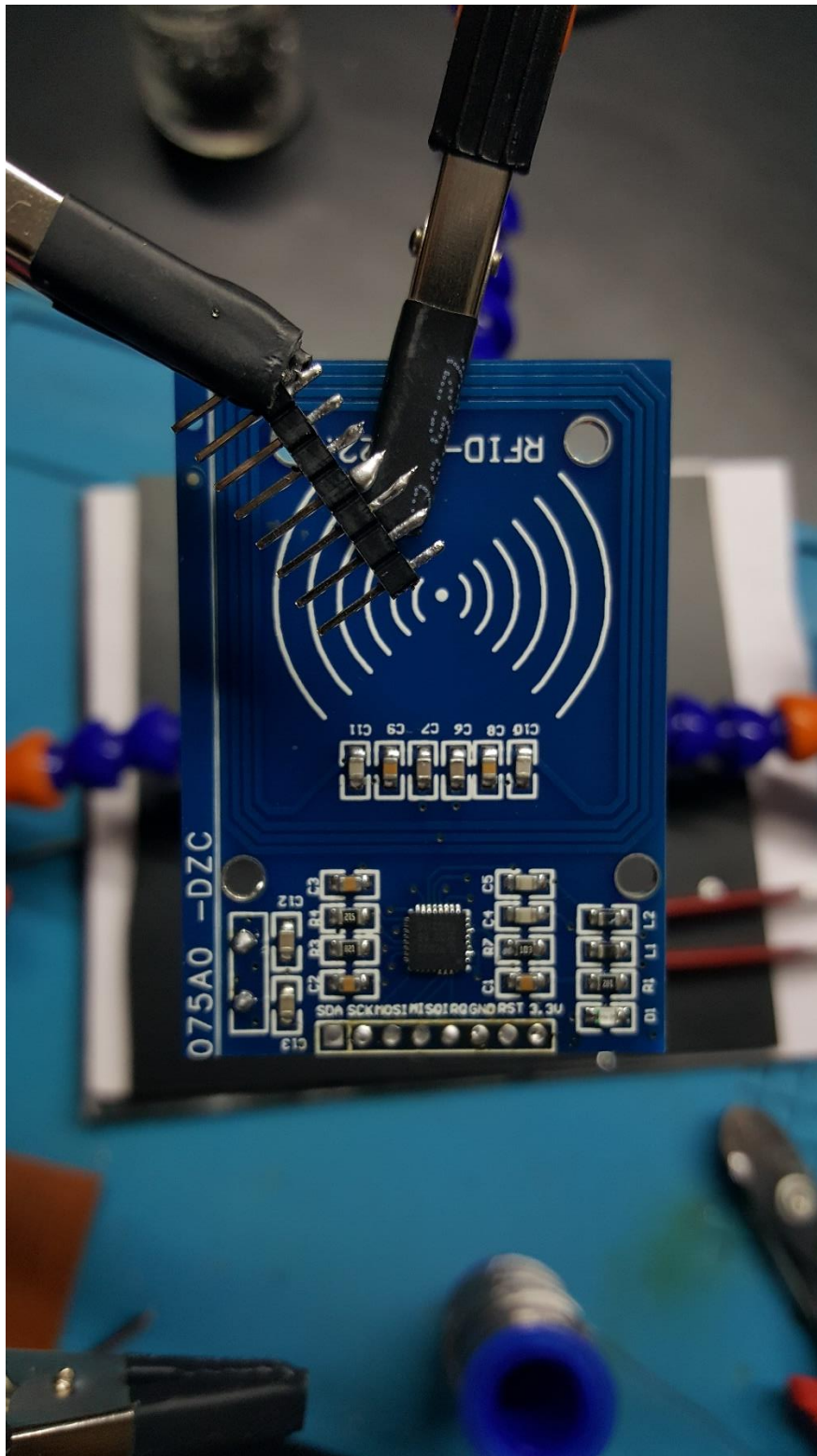

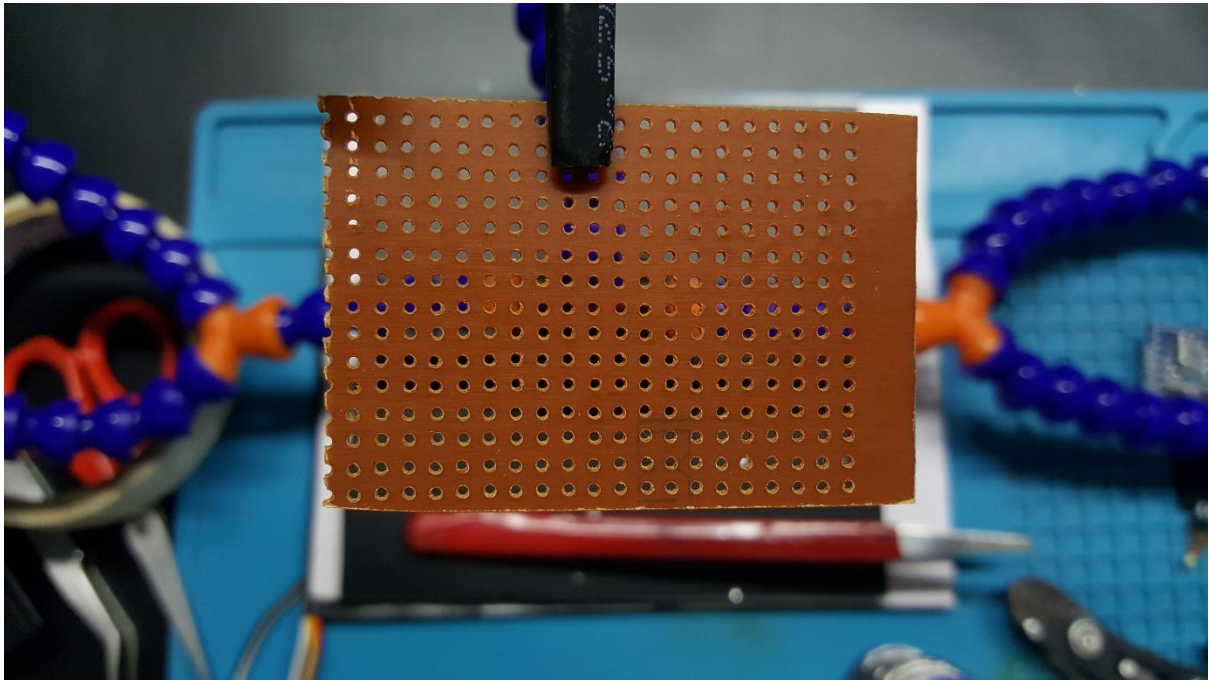After desoldering, resolder the oscillator into the other side of the board (polarity does not matter).
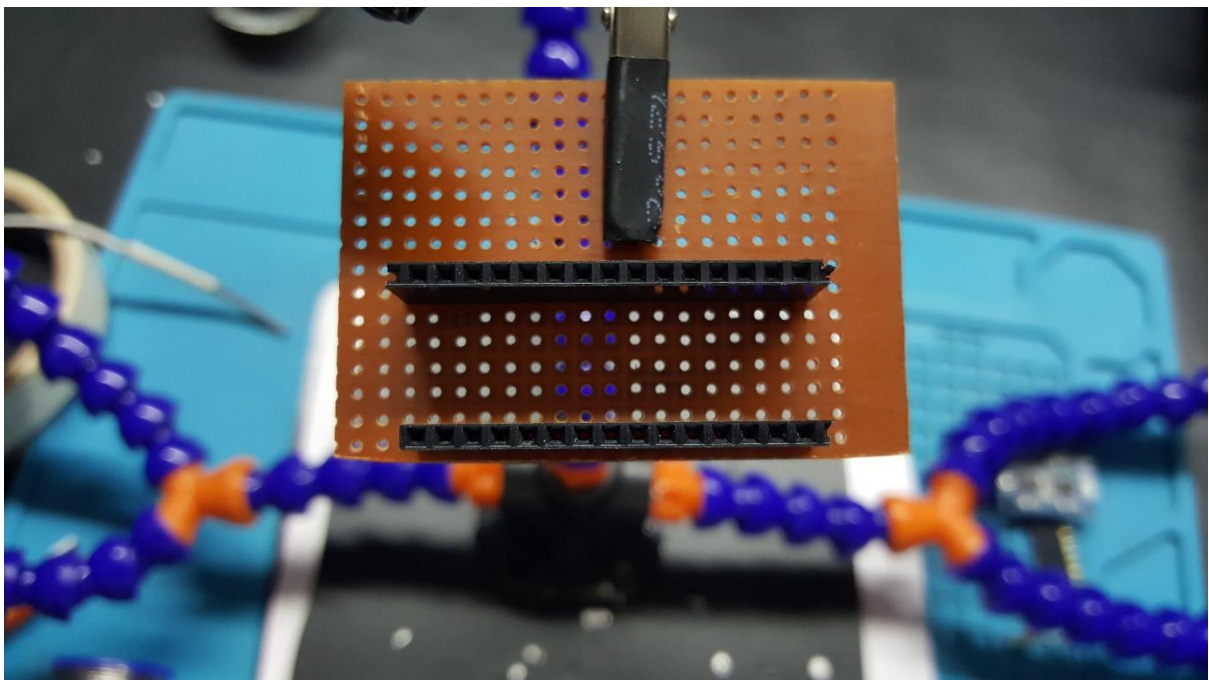
3.1.2:

Desolder the pins in the RFID module

3.1.3:

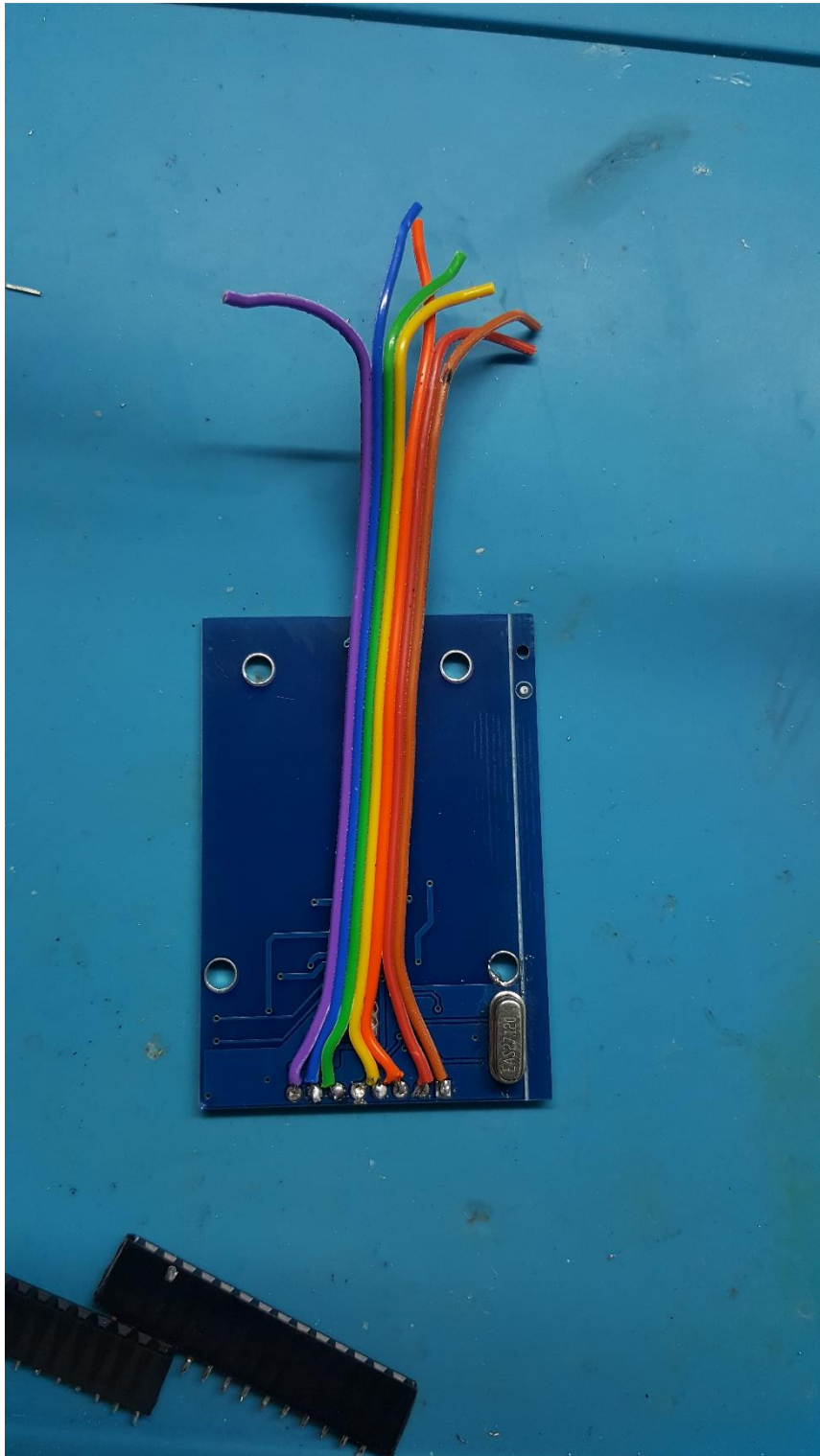   **Prepare the perf board**
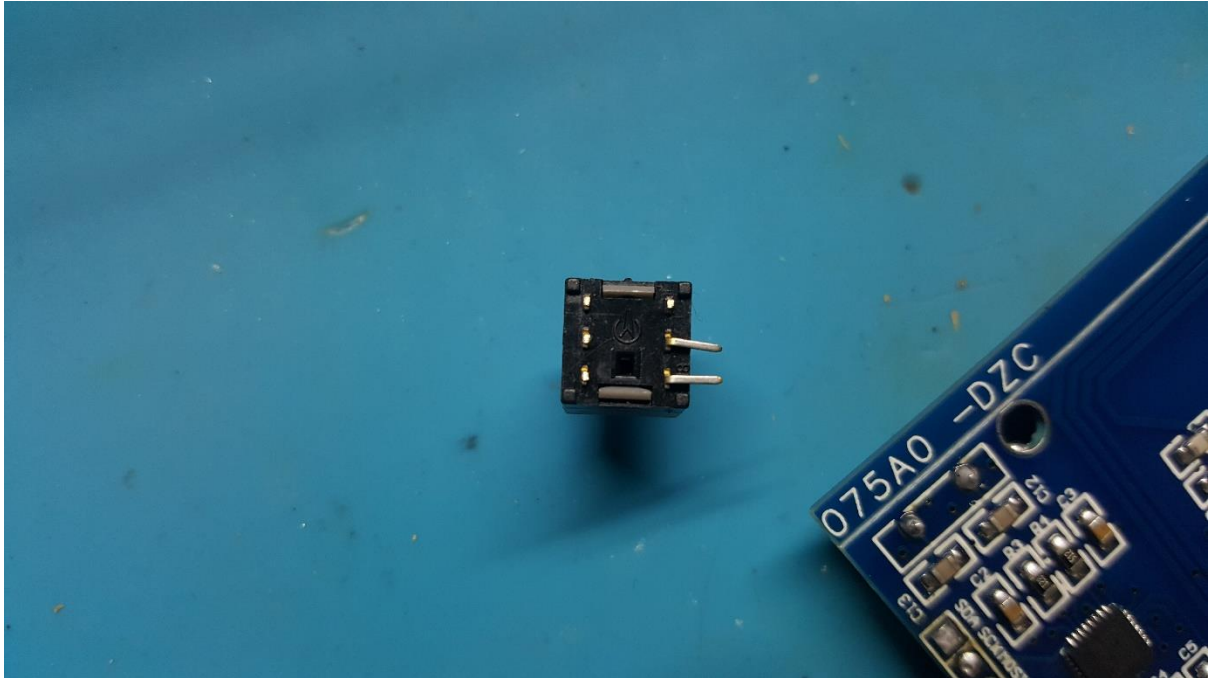

3.1.4:

   Solder the headers for the Arduino.

3.1.5:

Solder wires to RFID module

3.1.6:

Prepare the button : Trim the pins except the used pins.

3.1.7:

Solder wires to the push button

3.1.8:

Connect the wires to the Arduino Nano's headers in the following connection:

SDA   → D10
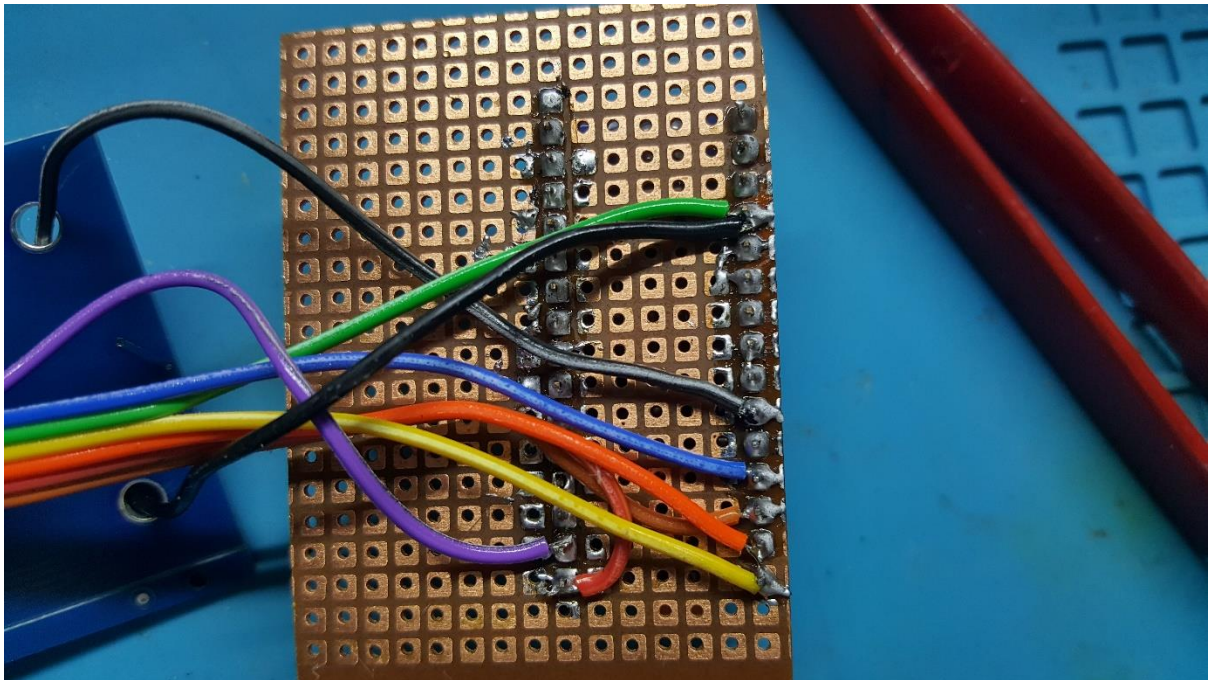
SCK   → D13

MOSI → D11

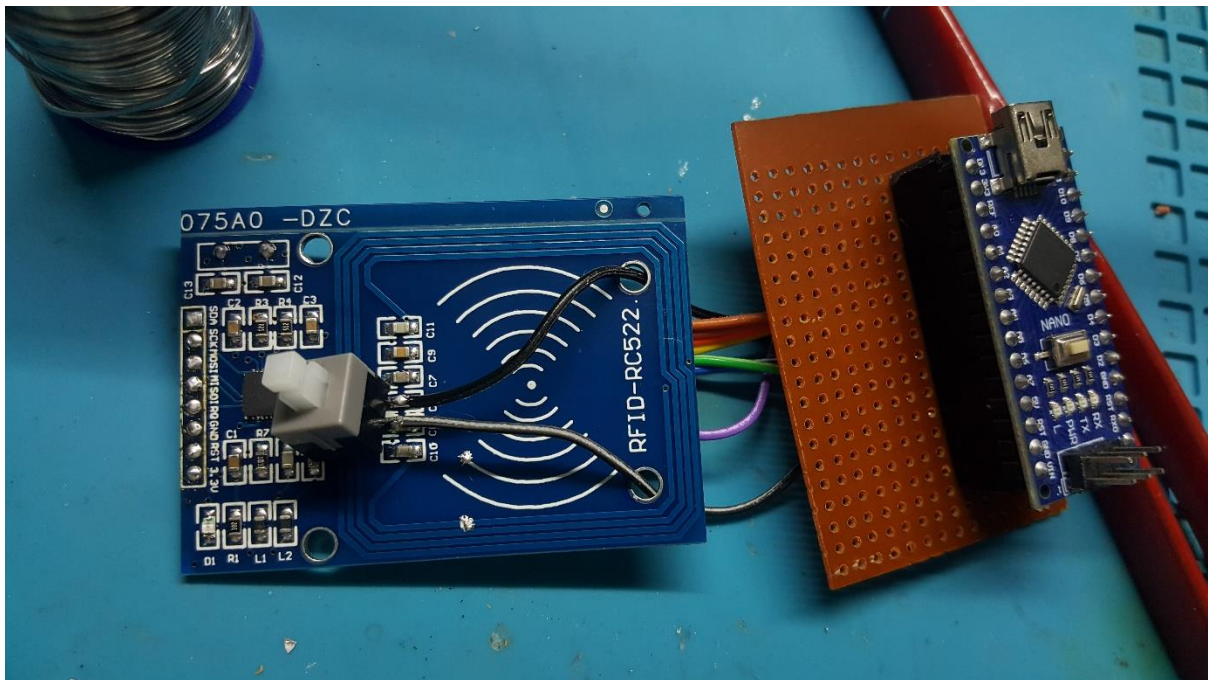MISO → D12

RQ   → (not used)

GND   → GND

RST   → D9

3V3   → 3V3 pin on the Arduino Nano

3.1.9:

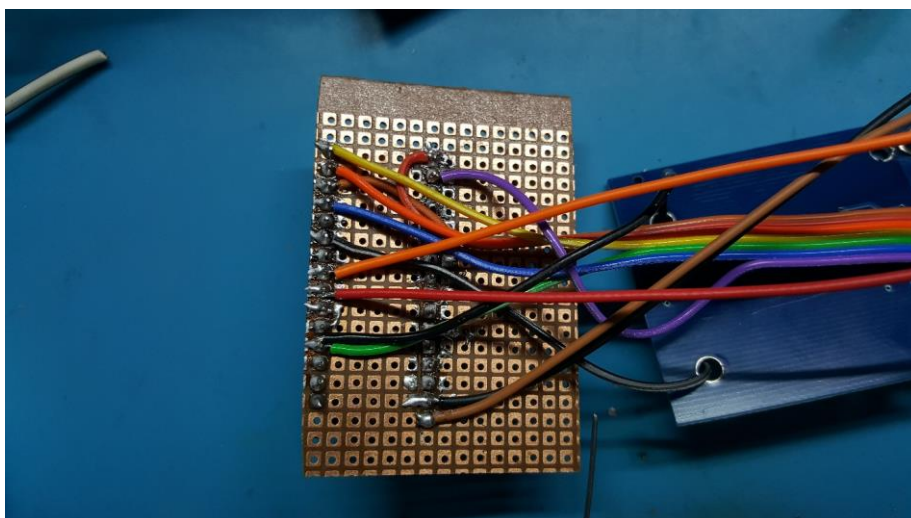**Get the button wires through the holes in the RFID module**

3.1.10:

Solder the wires from JST connector in the following way:
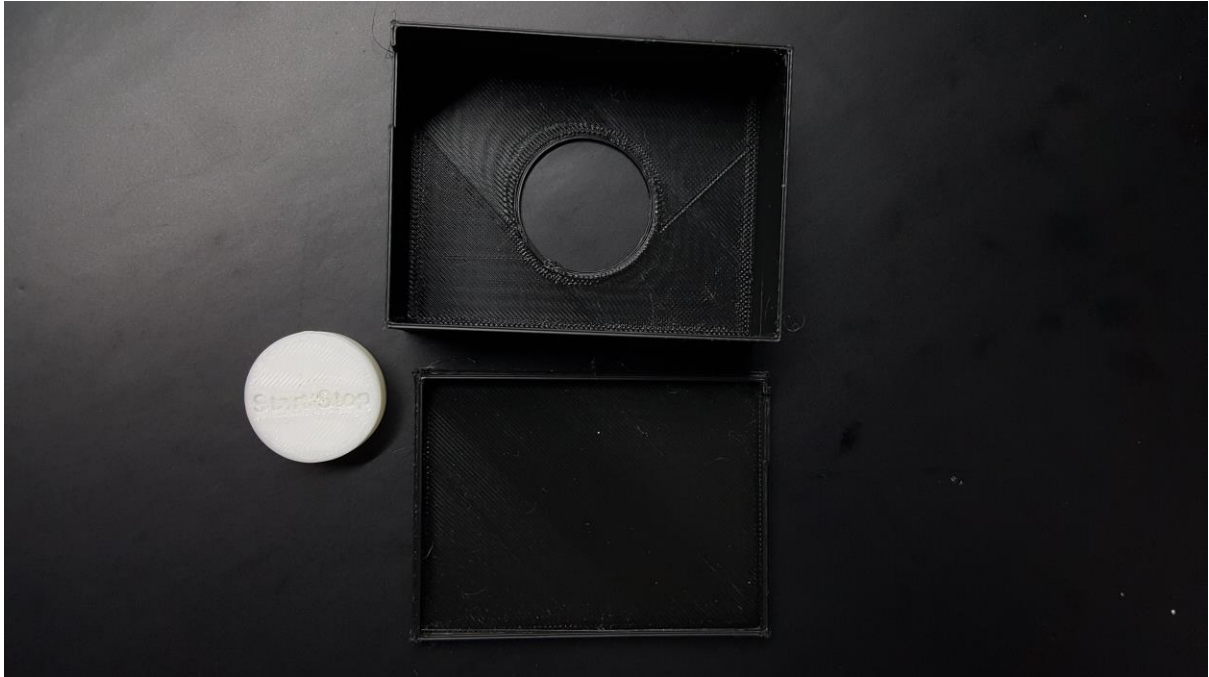
Black → Gnd

Brown → VCC

Red → D4

Orange → D5

3.1.11:

Prepare the enclosure

3.1.12:

Secure everything inside with the RFID module facing up and glue the button into its designated slot on the button cap (white).

3.1.13:

Glue the button on the RFID module and align the button cap to the designated hole for the button cap

Everything works as intended so, I put on the back cover of this enclosure. And we are done!