Payne Arduino DIY Remote Control Transmitter Manual

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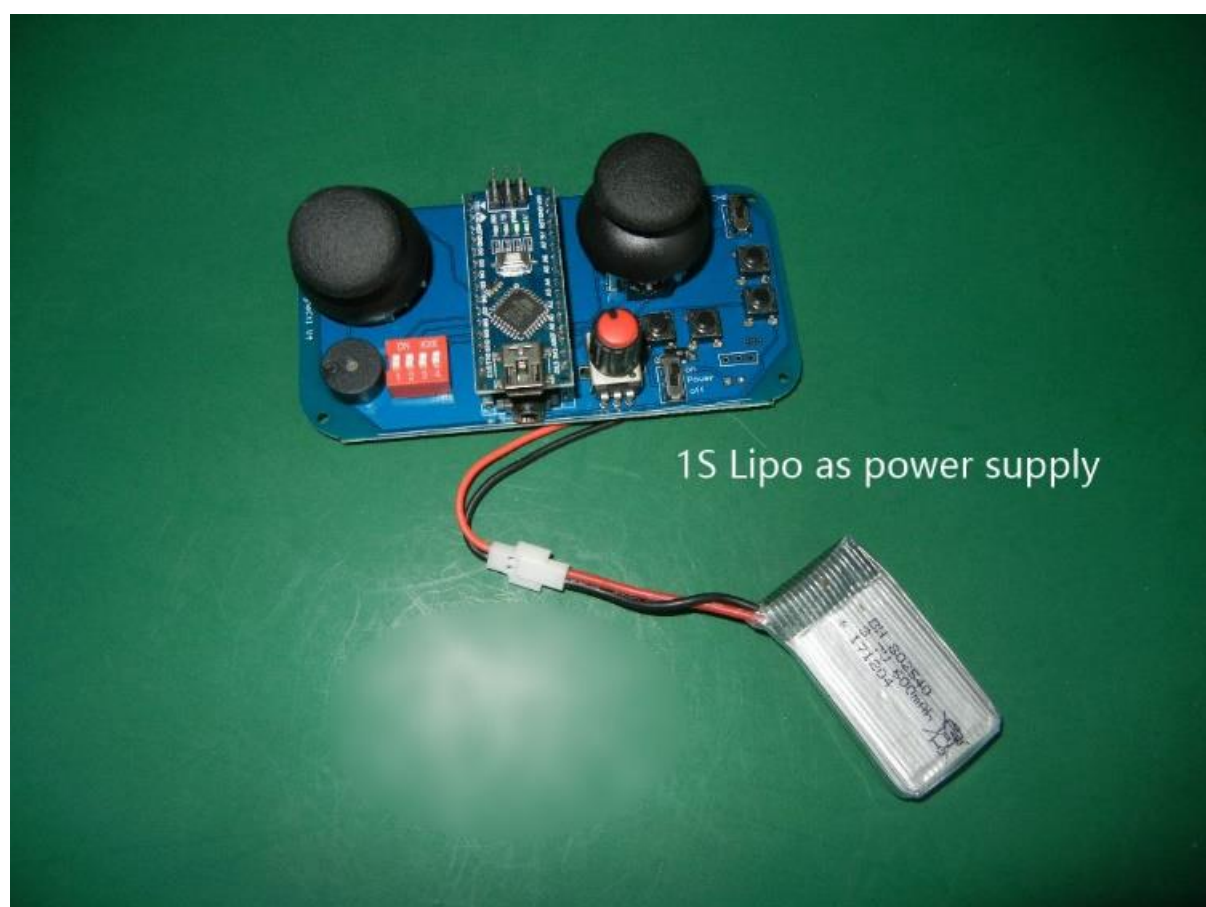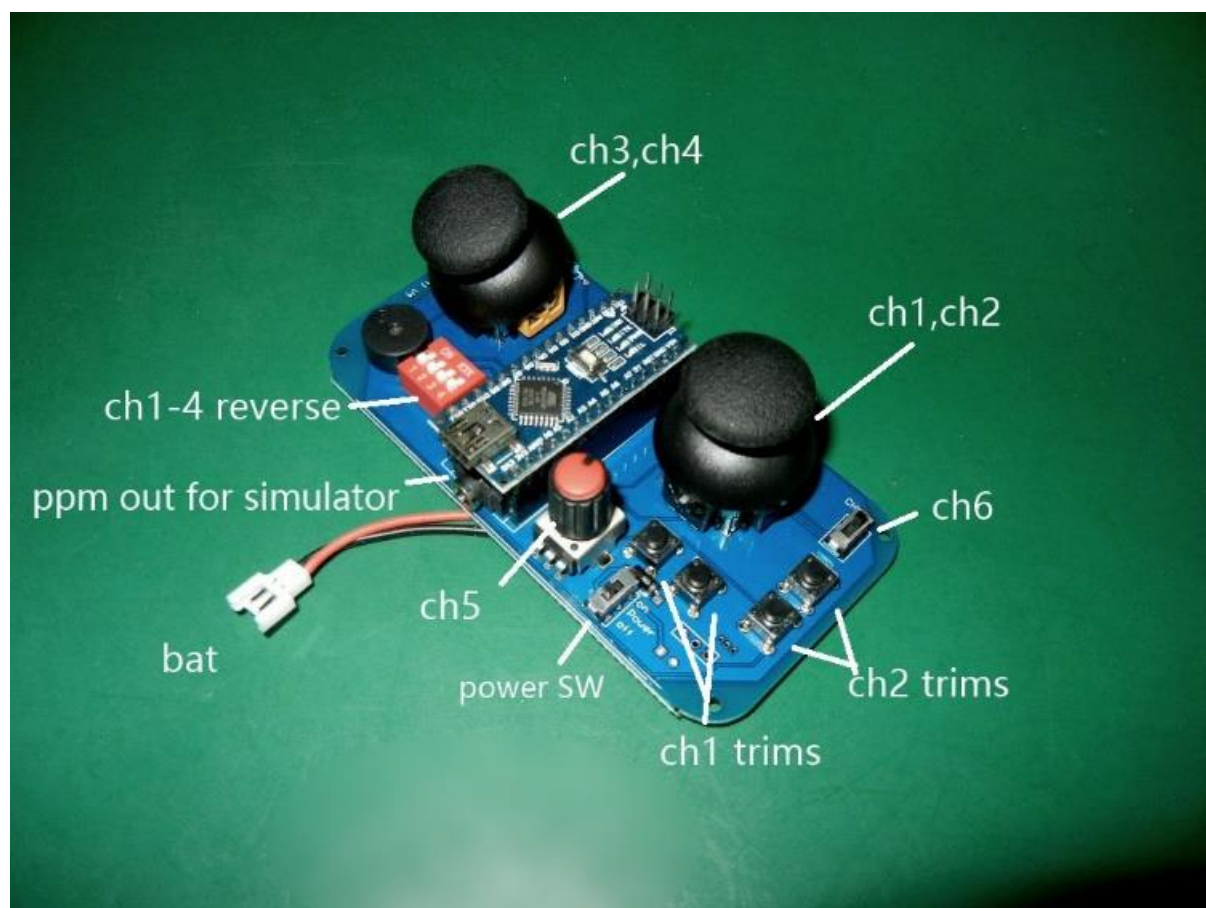
Payne Arduino DIY Remote Control
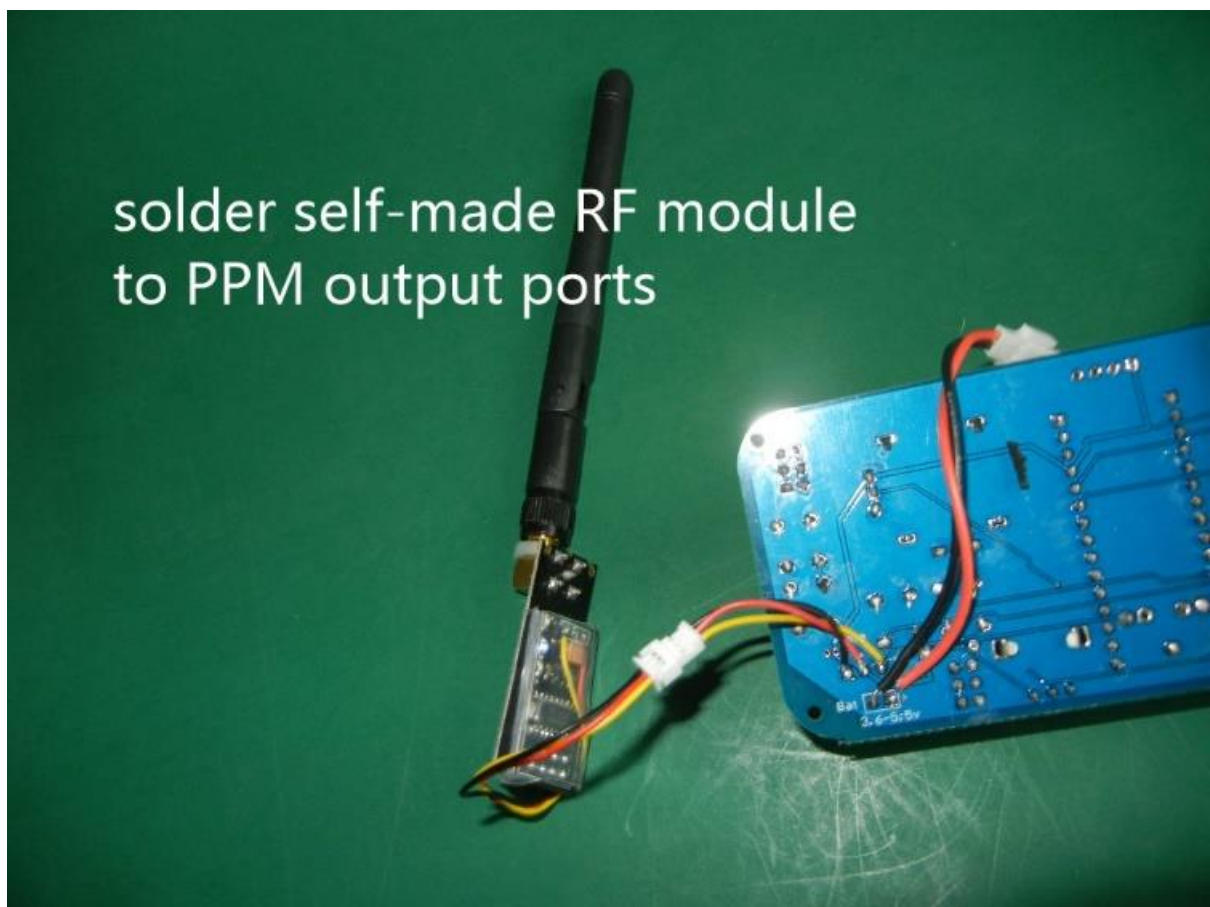
Transmitter Manual

Overview

Payne DIY Remote Control Transmitter is designed by Payne Pan as for learning and simple DIY. Now it evolves Version 4, V4 based on Arduino Nano, Nano have usb-ttl chip on board , so It is more convenient for uploading firmware, V4 use 1S Li-Po as battery instead of using 4 AAA batteries; and more features are added

- Reset settings
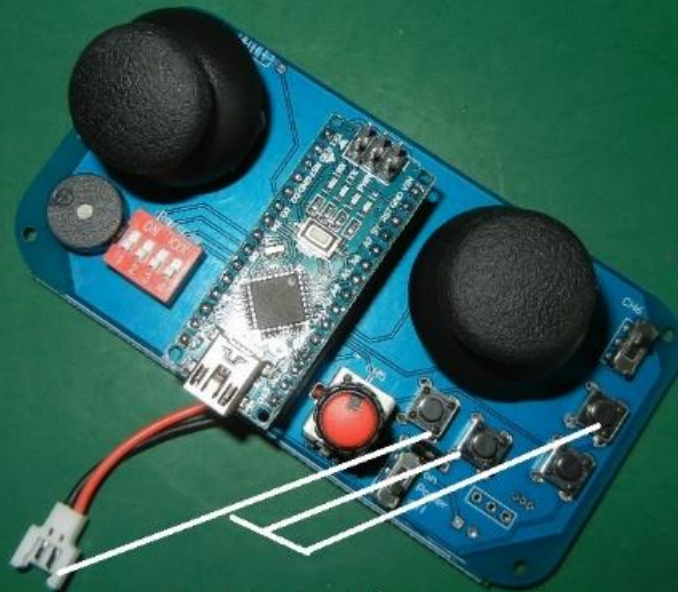- Calibrate sticks
- Adjust limits for 1-4 channels

Payne Open Source RC only output PPM, and it has no RF module, you can use other Tx module or self-made one (such as "Multi Protocol TX" module) Since it is for study, no license, nor warranty granted. Open the source in Arduino IDE, chose board "Arduino Pro or Pro min". processor as "ATmega 328p(5v,16M)",then you can compile and upload the firmware. Hope you enjoy it!

ch3,ch4

ch1,ch2

ch1-4 reverse

ppm out for simulator

ch6

ch5

power SW

bat

ch1 trims

ch2 trims

1S Lipo as power supply

use usb cable to connect
PC directly
(upload firmware)

solder self-made RF module
to PPM output ports

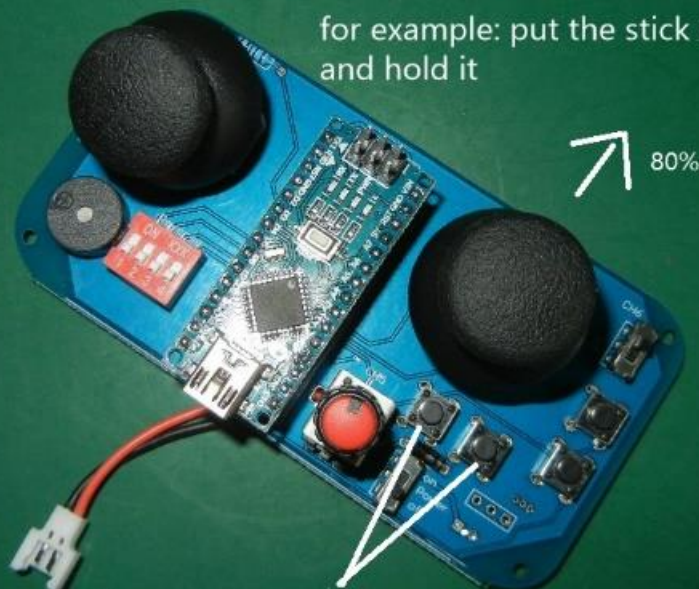**Special functions**

Calibrate Sticks

Put these three buttons down at the same time
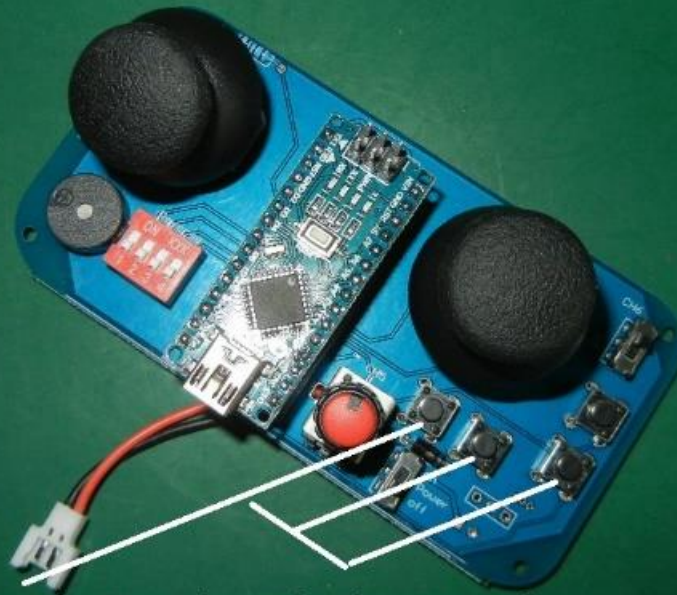(sticks for ch1,ch2,ch4 will be calibrated, but not for ch3)

Adjust limits

step1: Put stick to a postion then hold it

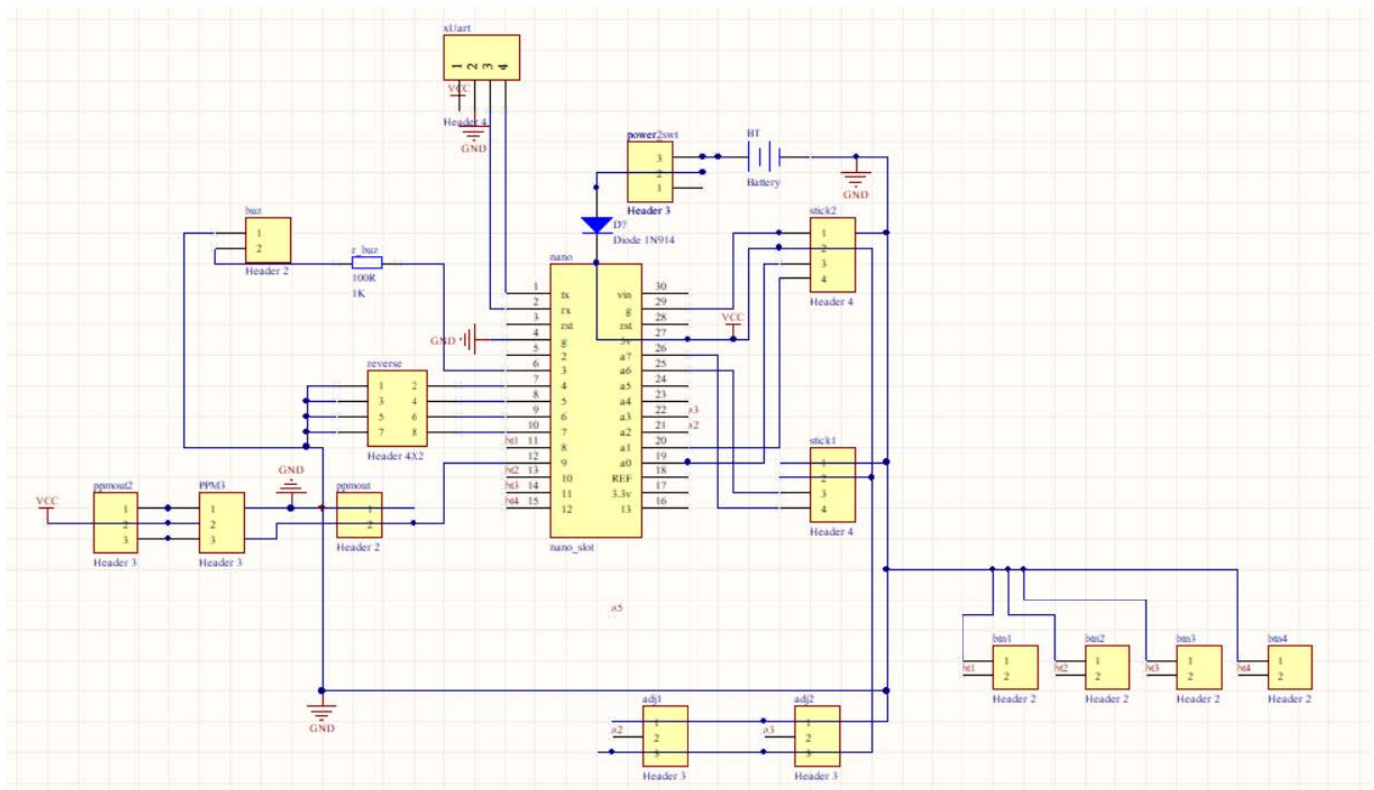for example: put the stick up to 80% and hold it

80%

step2: put both these trim buttons down

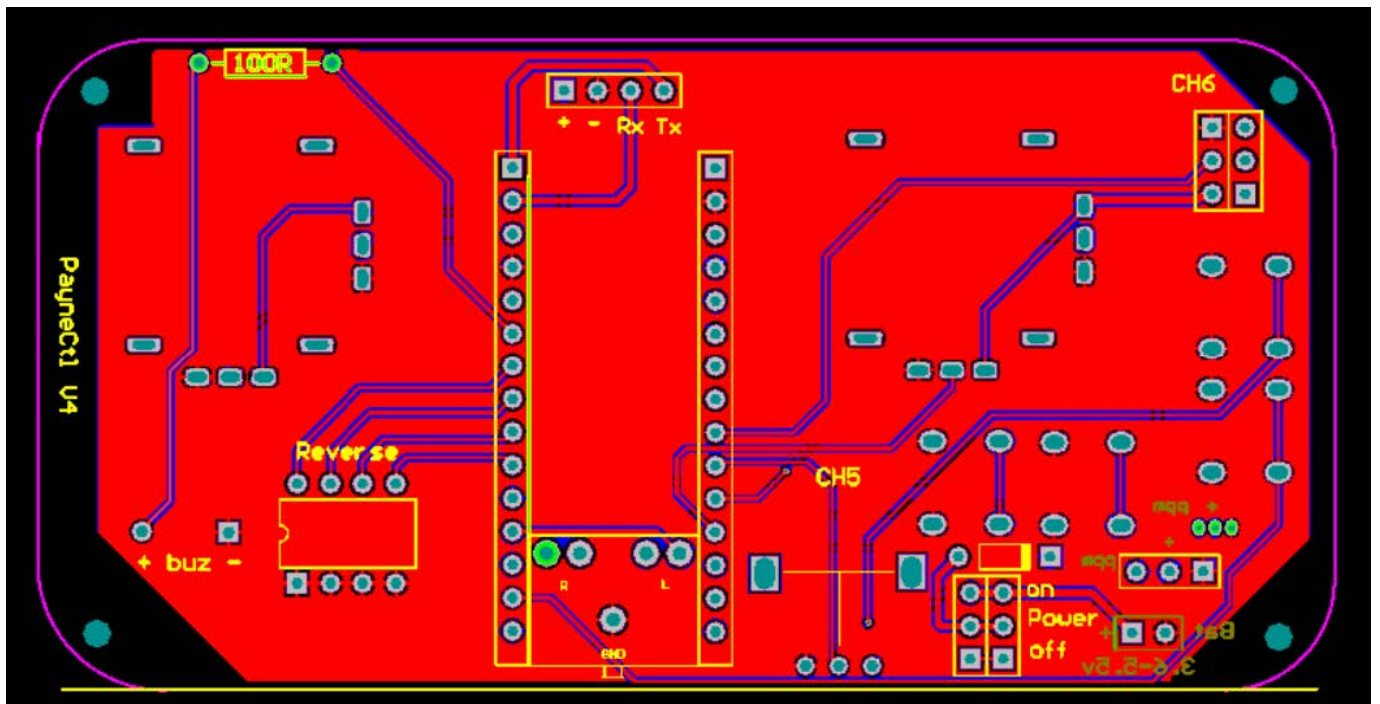then, ch2 up and down limits will be 80%

Reset Settings

Put these three button down in the same time settings will be reset
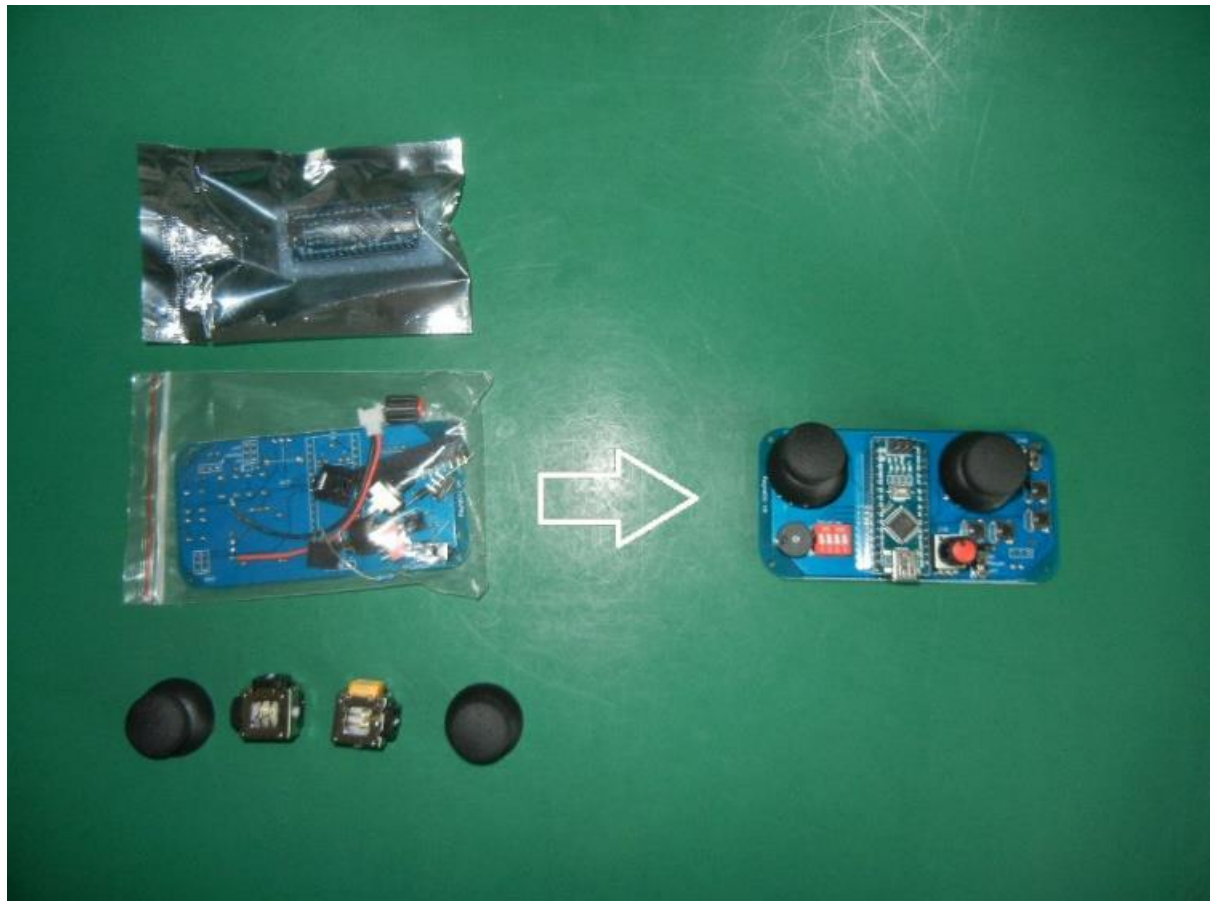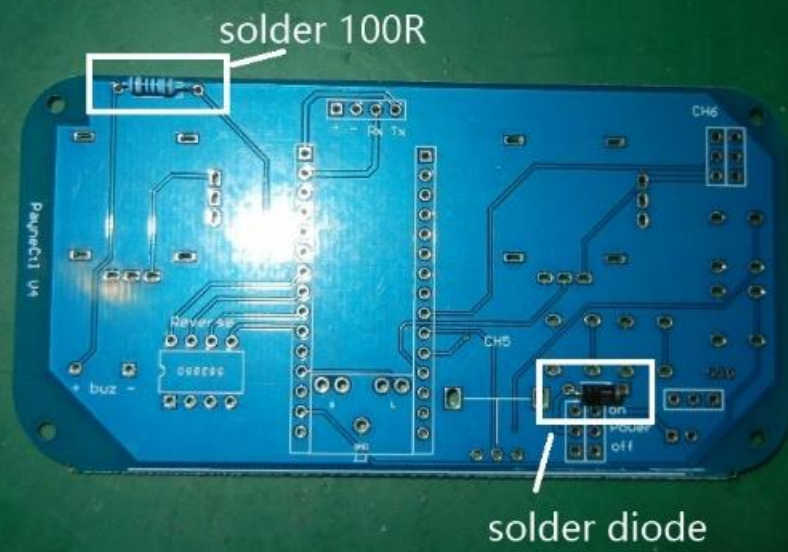
Sch and PCB

Source

attached below

Solder helps
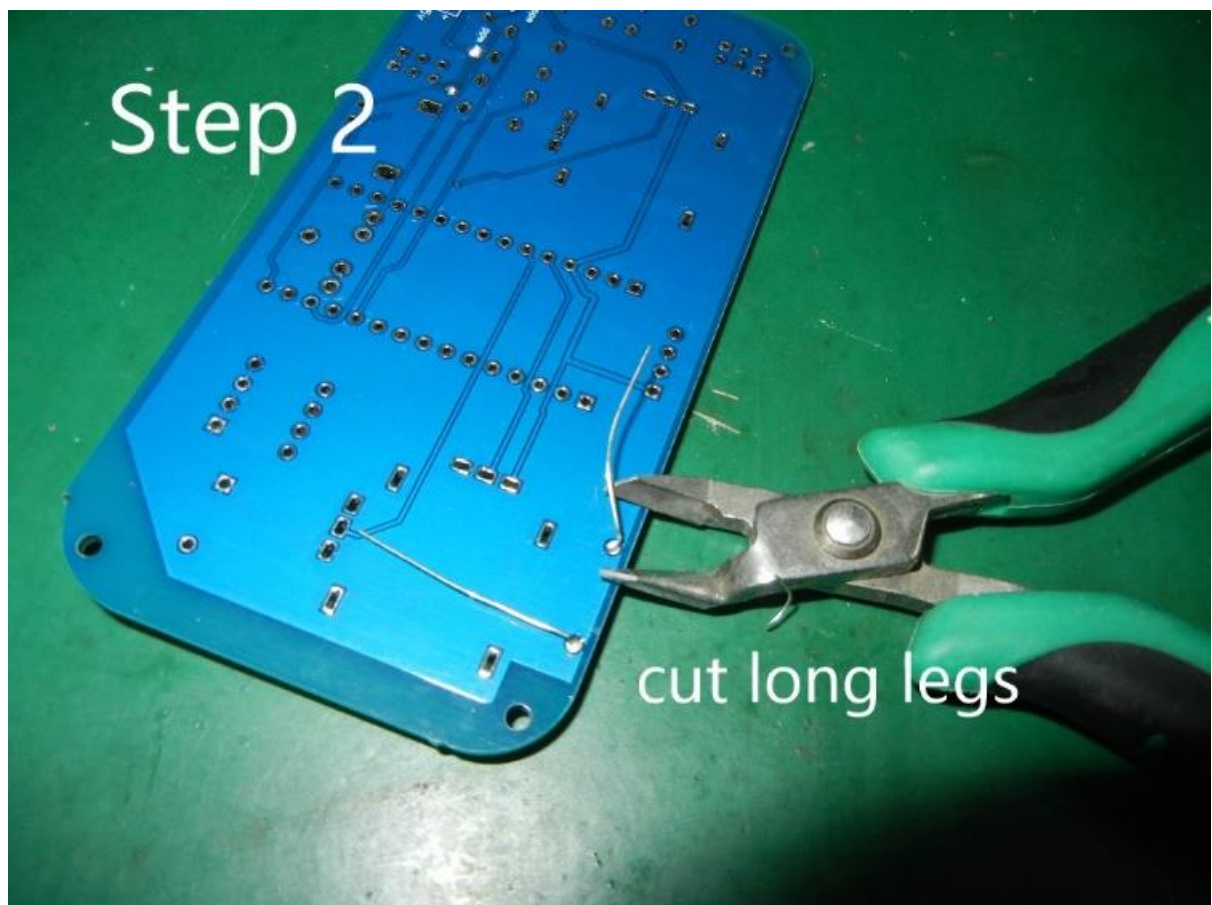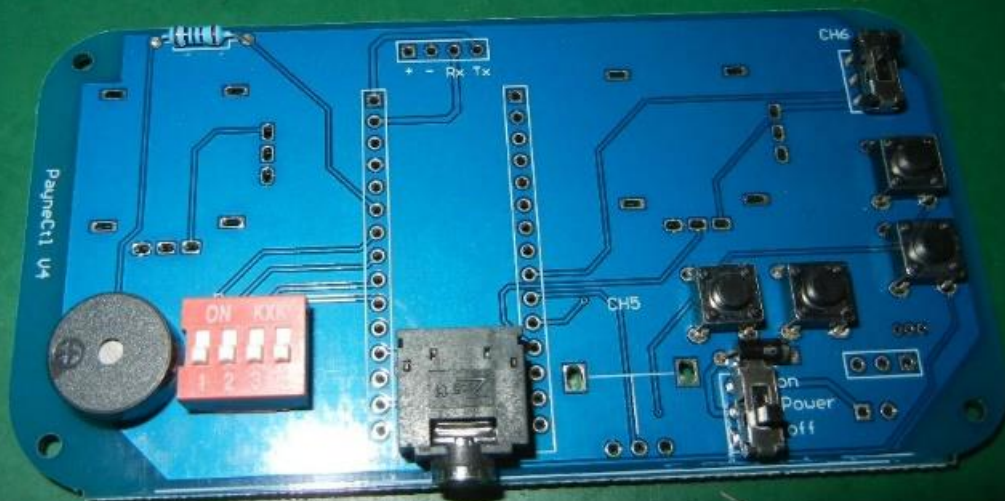
DIY is interesting magic

Step 1

solder 100R

solder diode

Step 2

cut long legs

Step 3

Solder other lower parts

Step 4

continue soldering

move the diode higher
to solder the switch
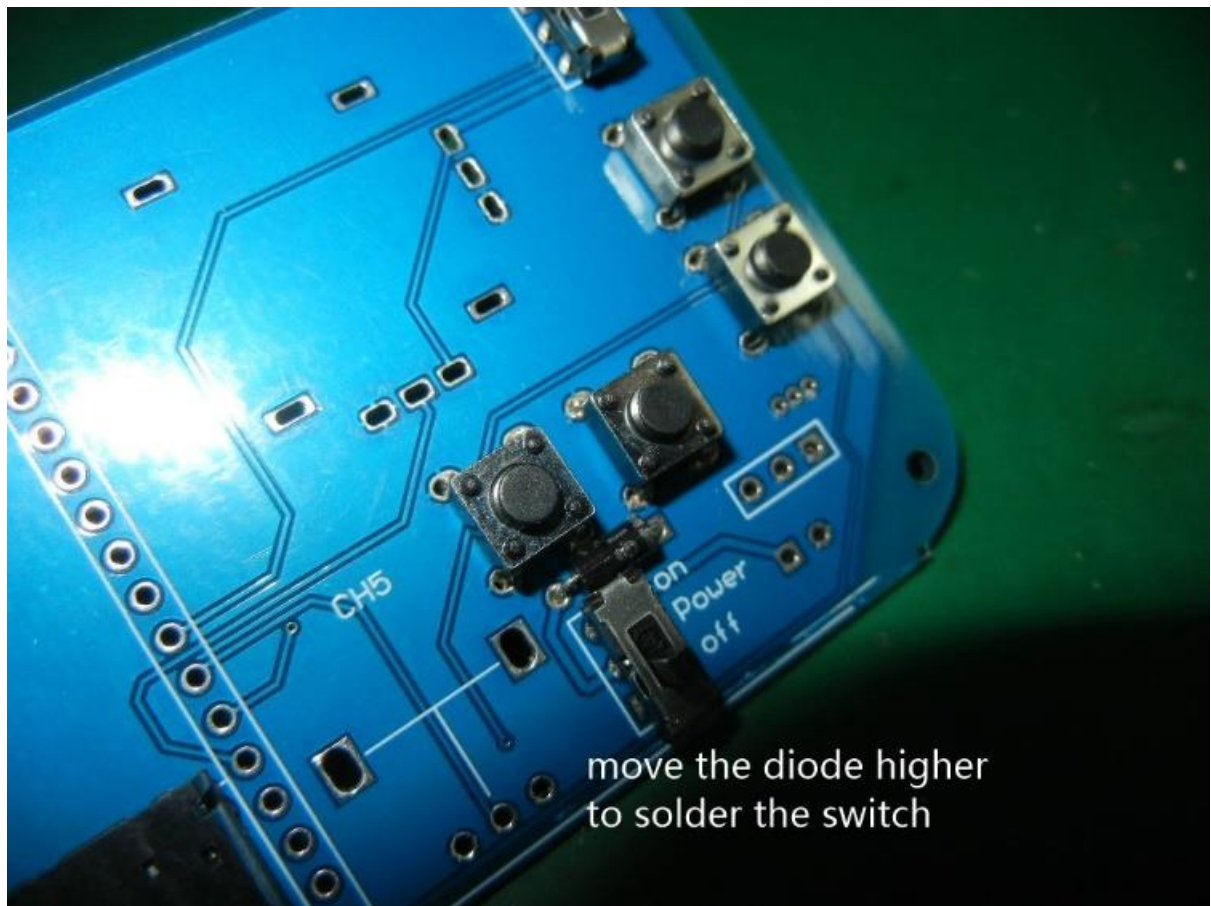
Step 5

solder the highest parts

Step 6

solder the wire to connect battery

PPM + -
port to connect RF module
(+ - is battery voltage)
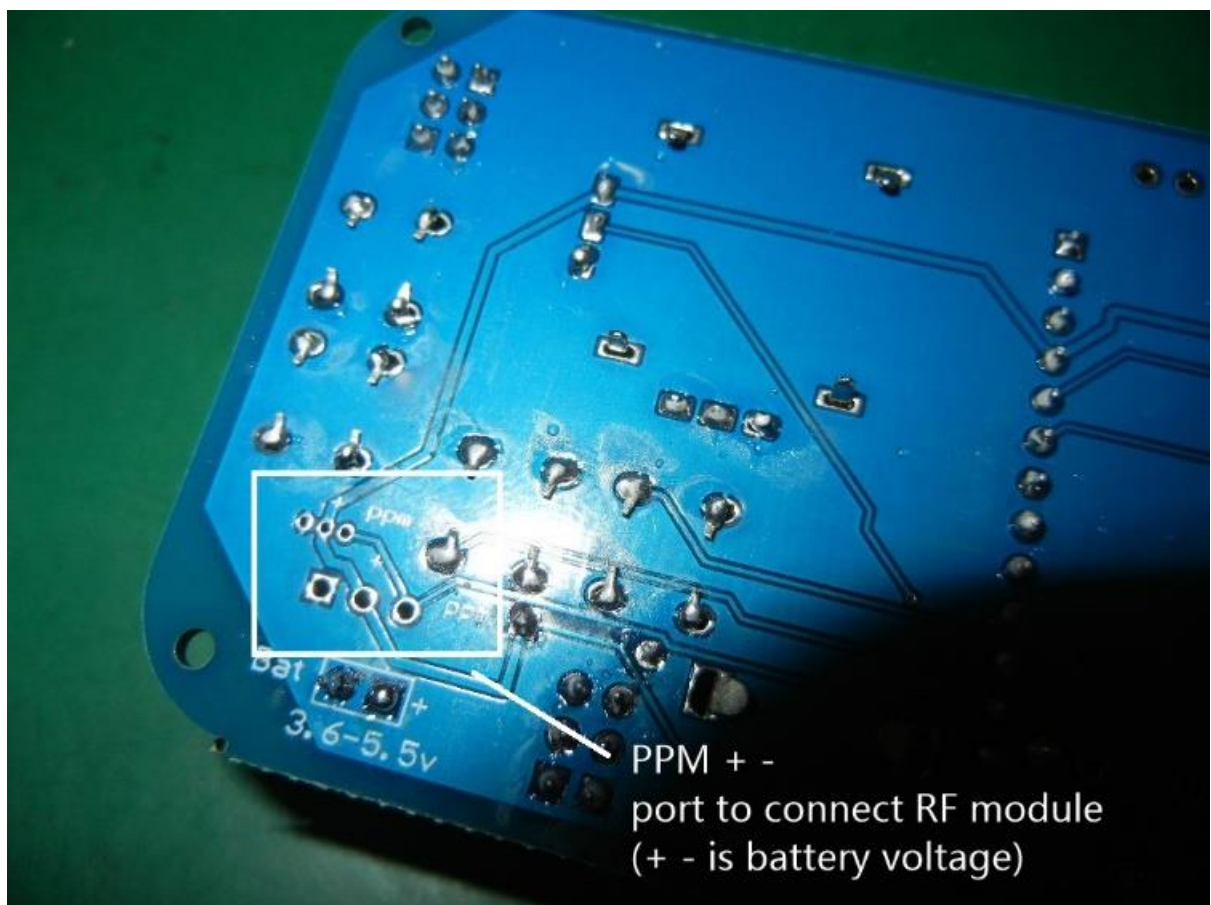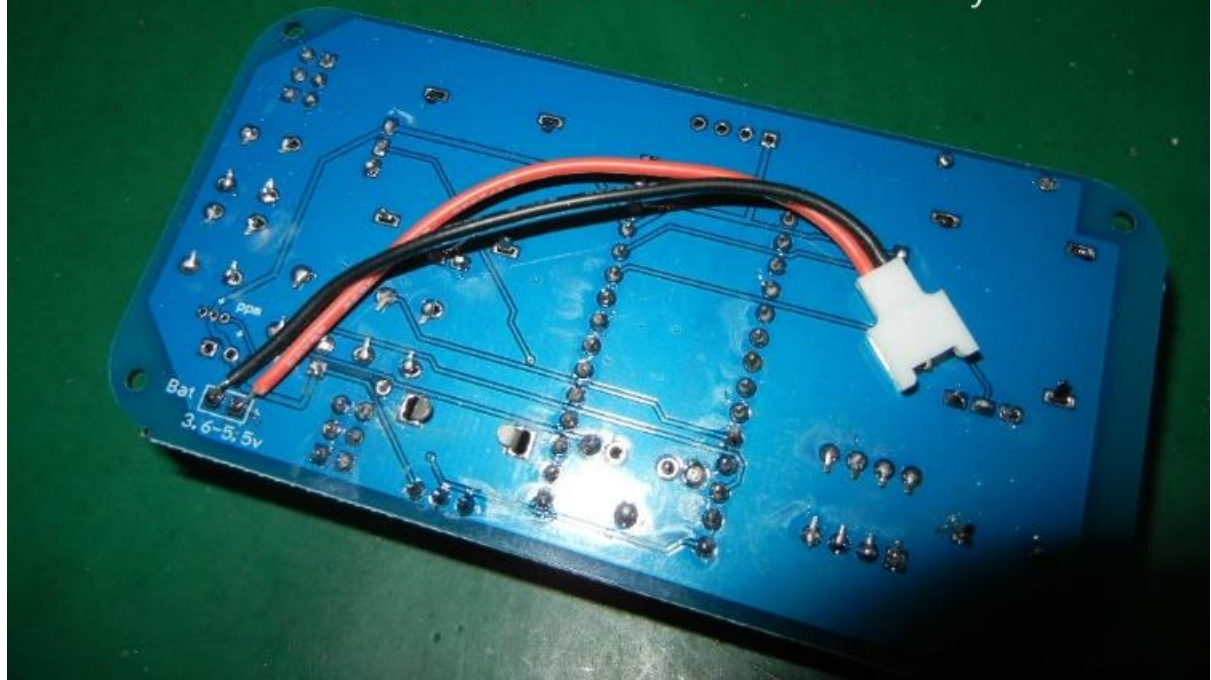
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