



ZMR250 V2 Build Manual

Quality, Affordability, Convenience!

Congratulations on the purchase of the ZMR250 V2 Mini FPV Quadcopter! This mini quadcopter is a ton of fun and building can be a really enjoyable experience too. We hope this manual will assist you with your build.

ZMR250 is probably one of the most popular FPV quadcopter frames. We have taken the time to make sure that this is the ZMR V2 you want. We have reworked the frame to include both top and bottom plates are "true" 2mm plates. We have also taken the advice of many and included 4mm thick arms. These arms are included in the package and there is no need to buy them separately. (4mm arms can be found running anywhere from 6-15 dollars each!) They are included in this package.

Our carbon fiber has been sourced and quality checked to ensure that you are getting the best quality 3k carbon fiber around. Including a full PDB w/LED lighting system you cant find a better deal out there! Introducing the ZMR250 V2!!!

Weight: 185 grams (Frame, hardware, and PDB totally)

Features:

- "True" 2mm Top & Bottom Plates
- 4mm Thickness on Arms for Added Durability
- Full PDB w/LED

Recommended Parts for ZMR250 V2:

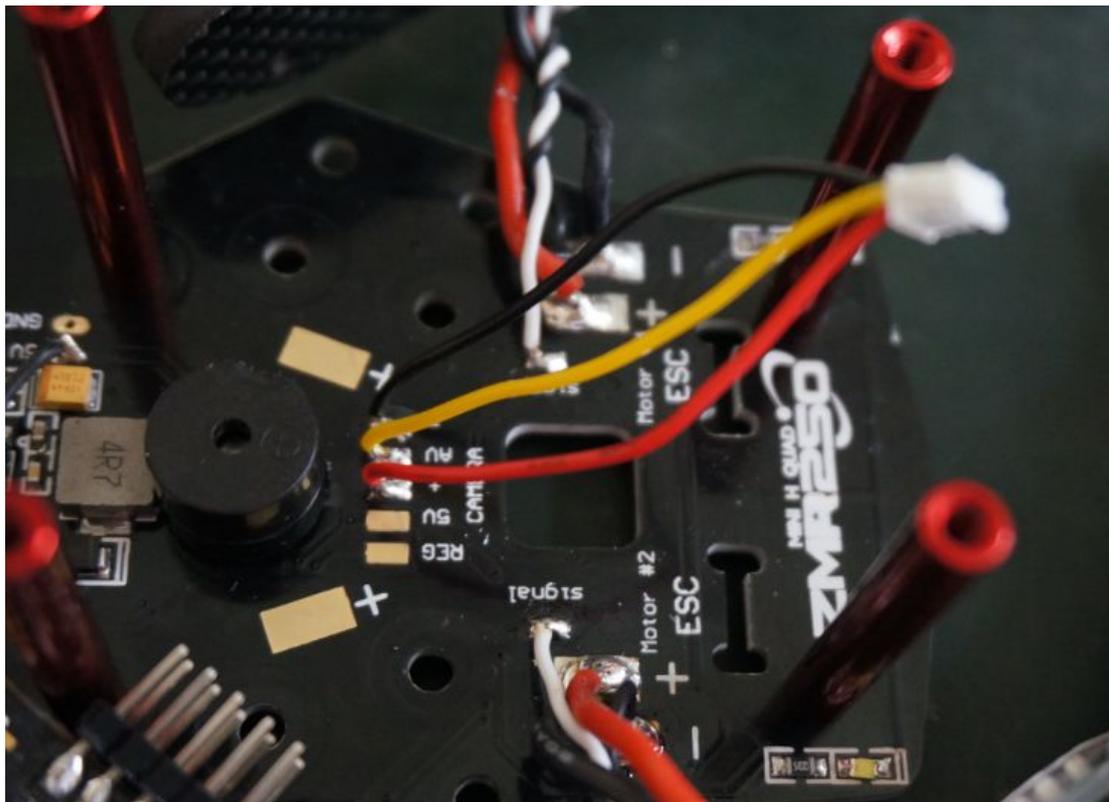
Motor: [Dragonfly MC1806 2300KV](#) (If use 22XX size motors, please buy [extra arms](#) to fit.)

Propellers: [Dragonfly 5030 CW/CCW props](#)

Battery: 1300MAH-2200MAH

ESC: [DYS SN20A Mini ESC](#)

Solder the Transmitter and Camera

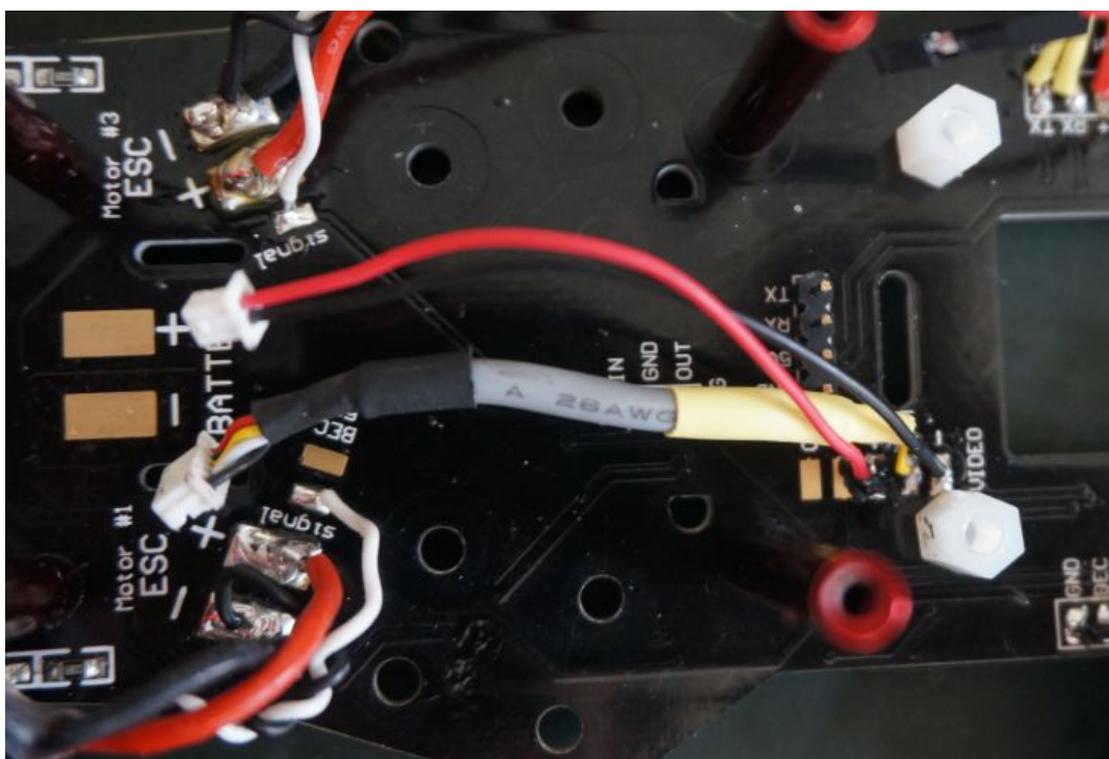


Cut the wires of camera to suitable length and solder them to PDB.

Red wire: Power

Black Wire: GND

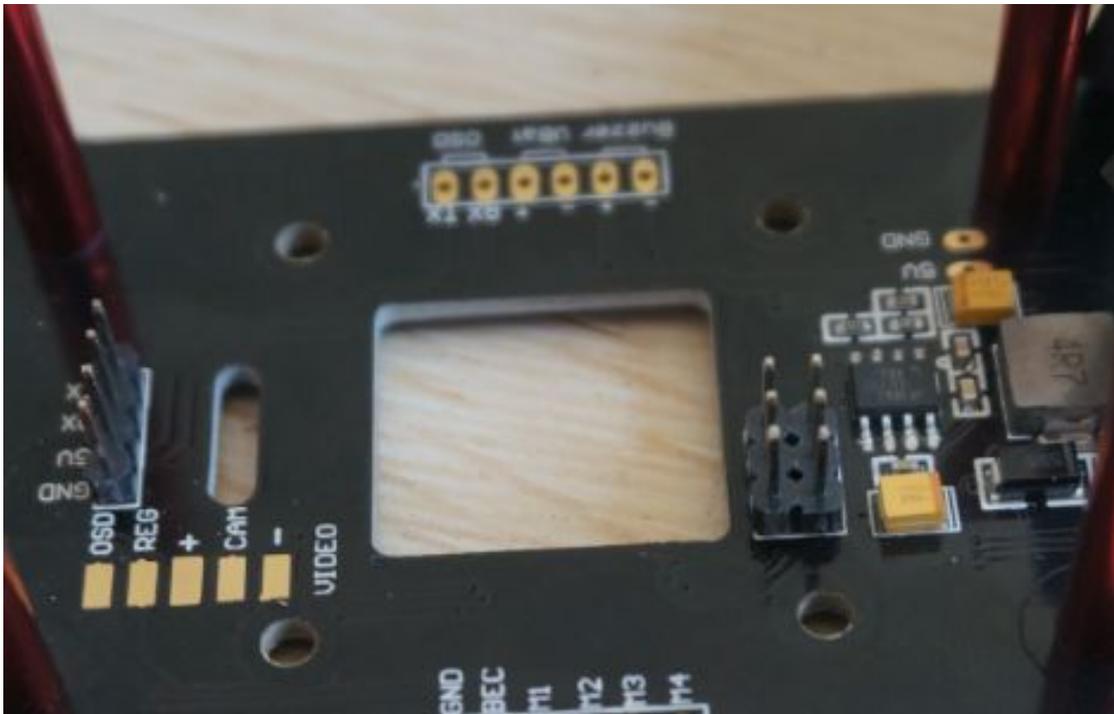
Yellow: Signal



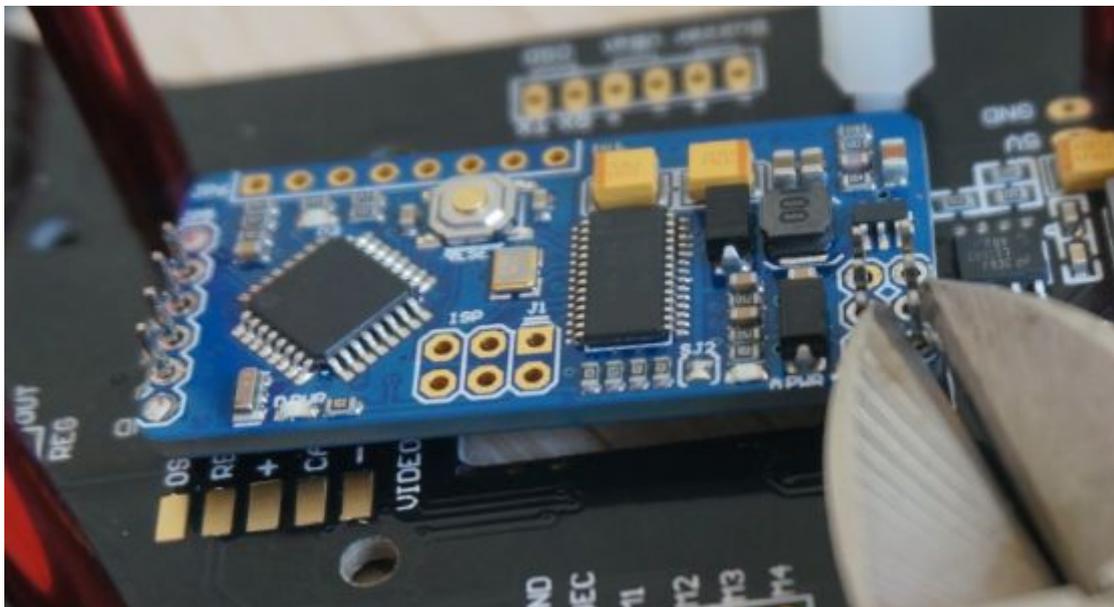
Solder the power supply wire and video wire (yellow) of transmitter to PDB.

Install OSD

The OSD firmware must be flashed and compatible to the Flight Controller before installation. If you don't need to install the OSD, please just skip this step.

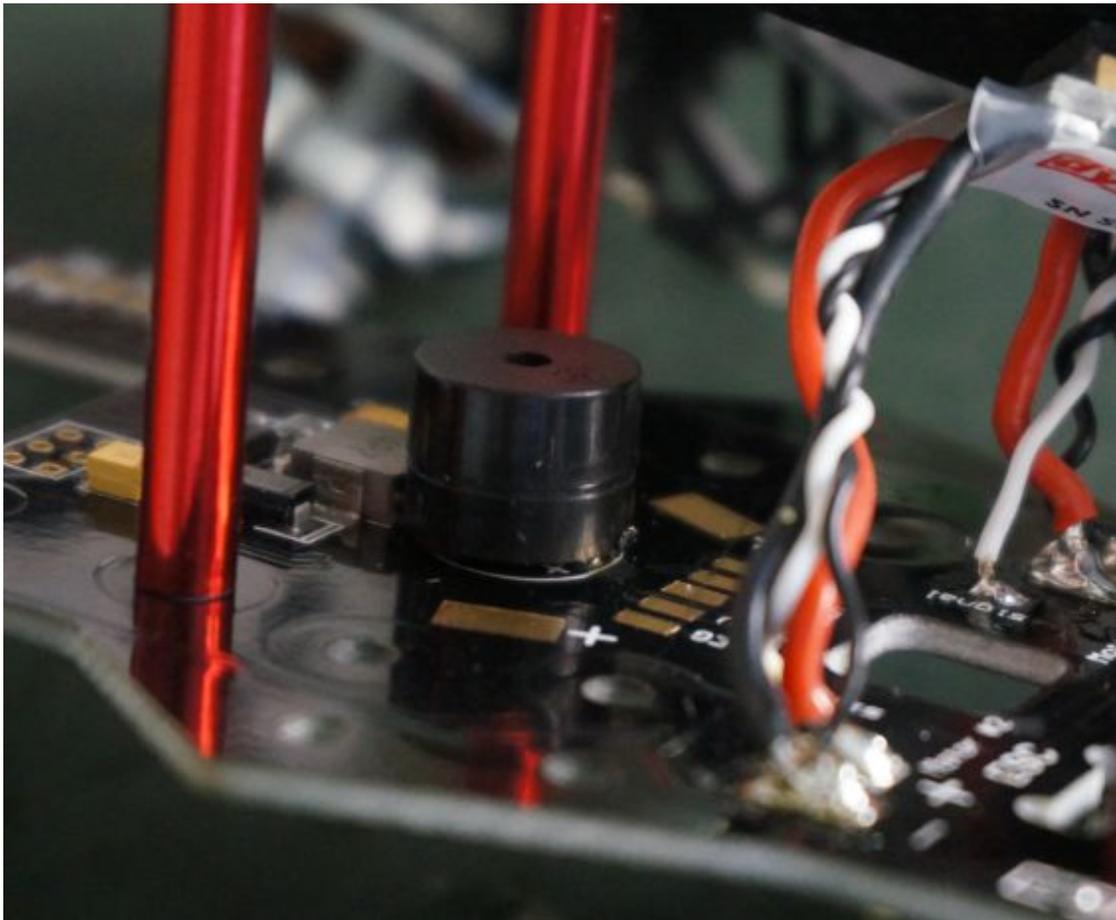


Solder the pin headers onto PDB.



Install the OSD on PDB. Insert it onto the pin heads and soldered. After secured, cut off the unnecessary length of pins.

Install the Buzzer



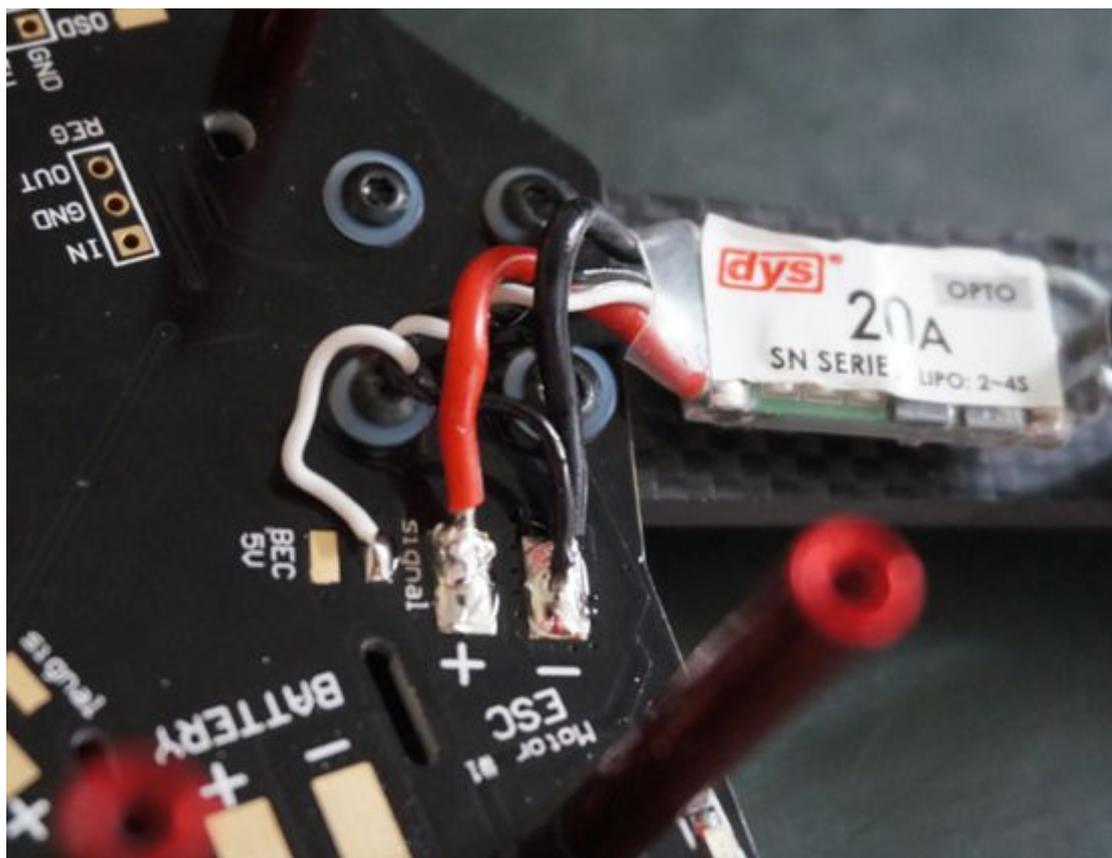
Pay attention to the positive pole "+" on the buzzer. It needs to be soldered to the buzzer location on PDB.



Cut off the unnecessary pins.

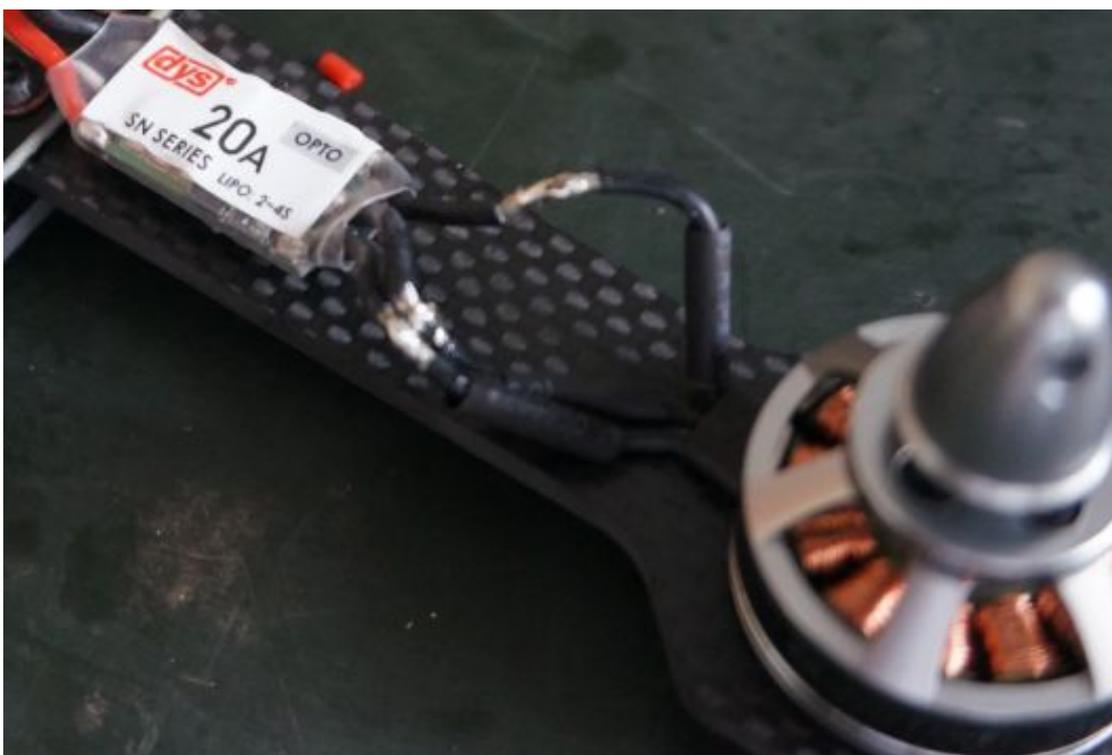
Install ESCs

Solder the ESCs onto PDB.



The black wires can be parallel connected to the negative pole "-".

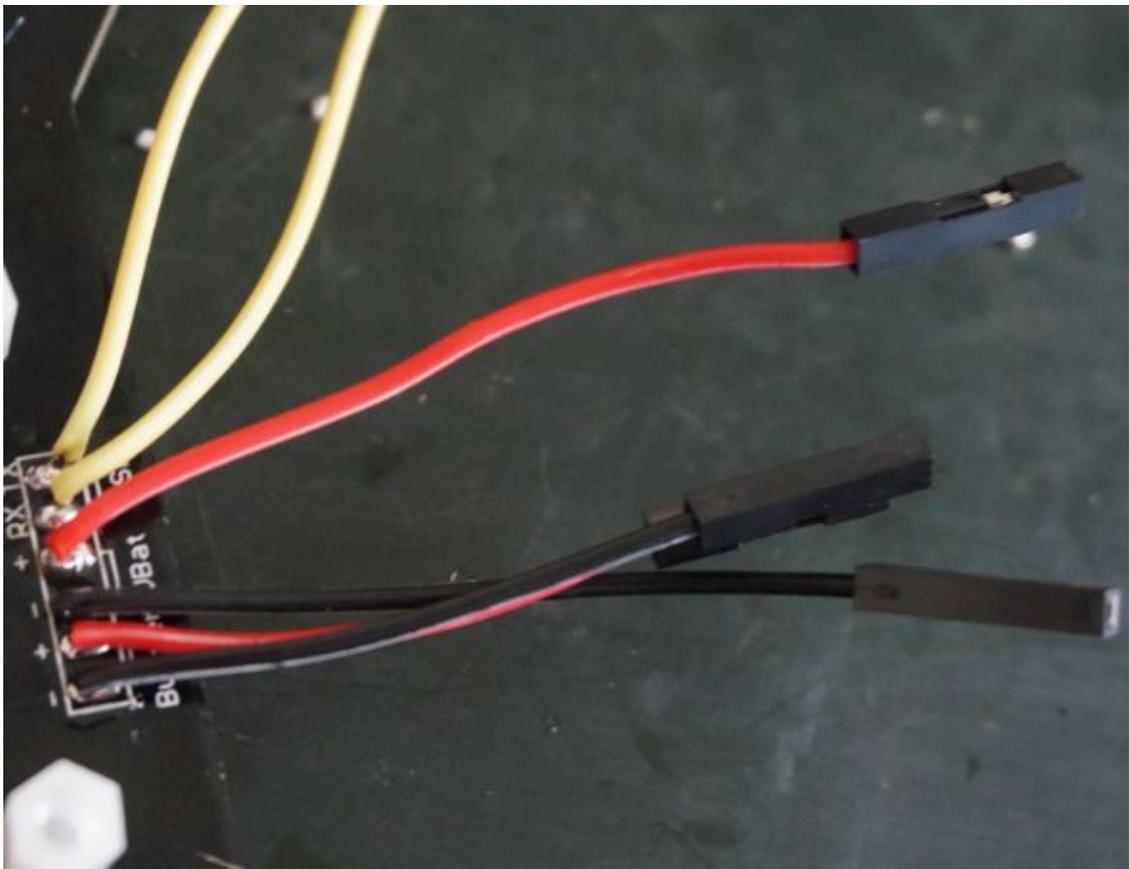
Install Brushless Motors



The motor's rotation direction can be changed by changing any two wires.

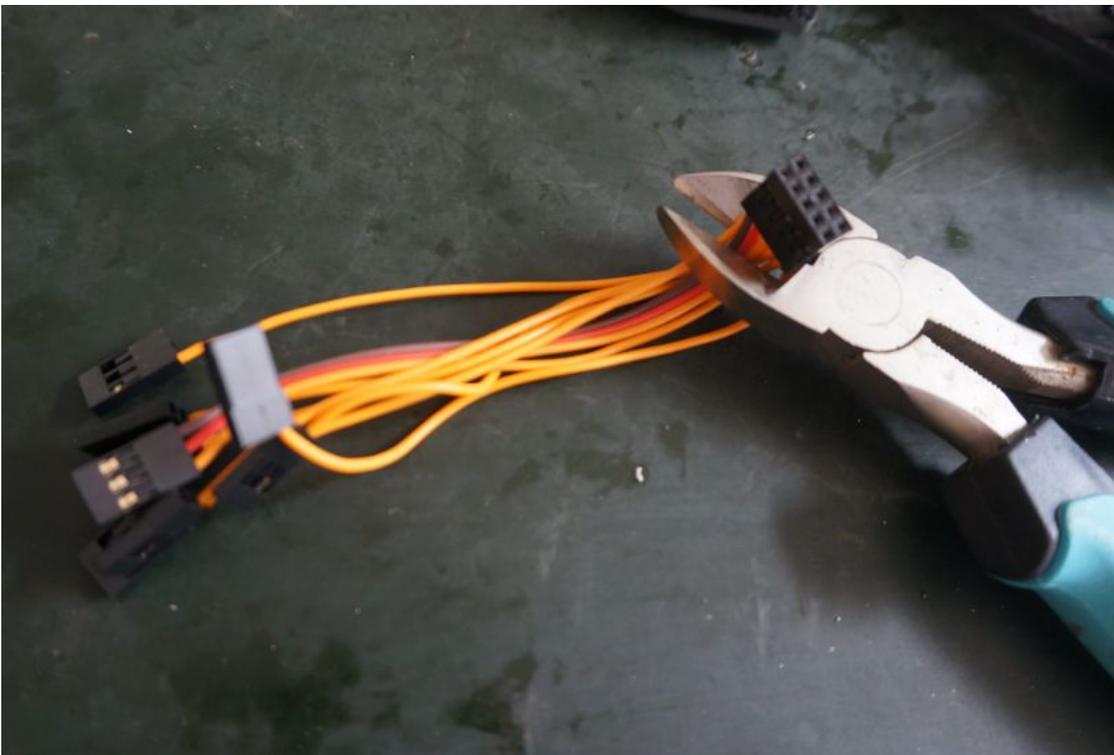
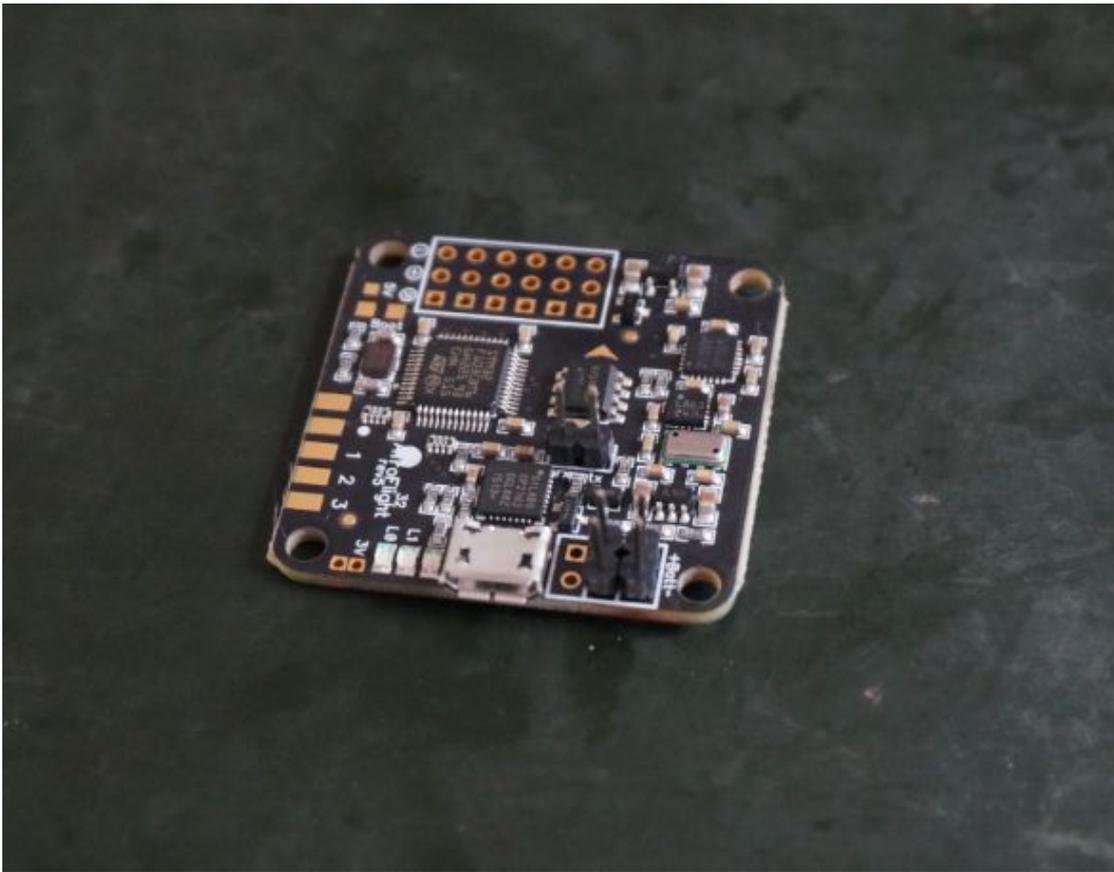


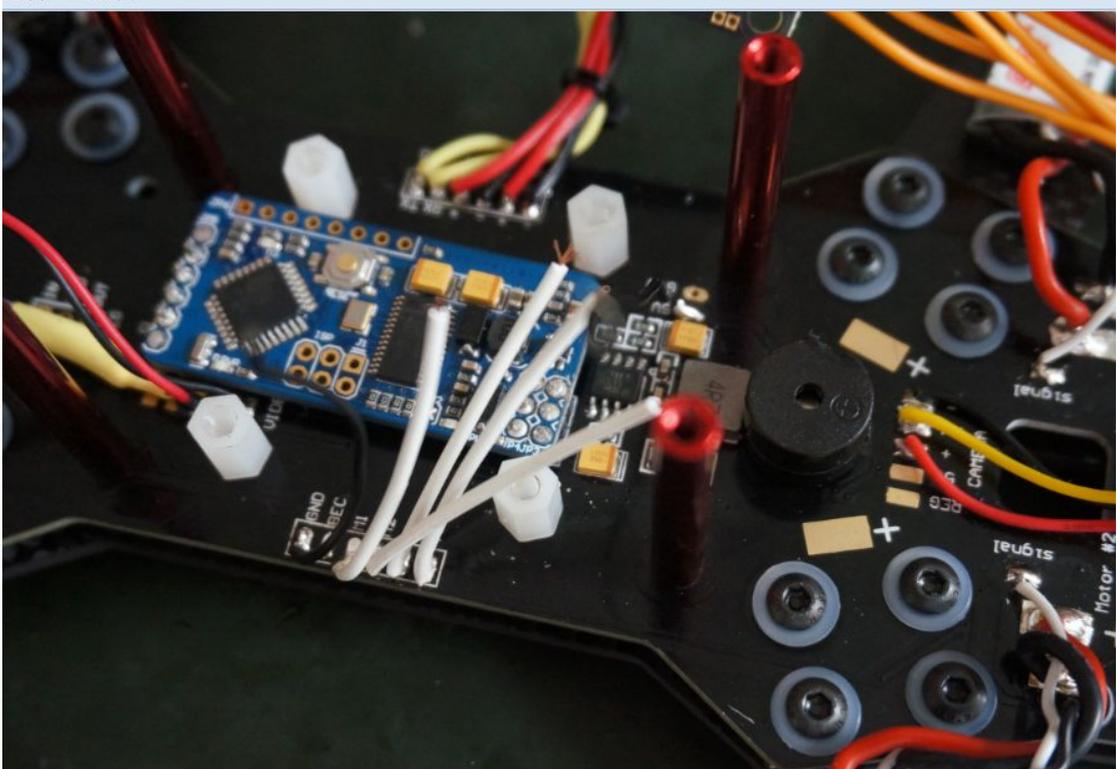
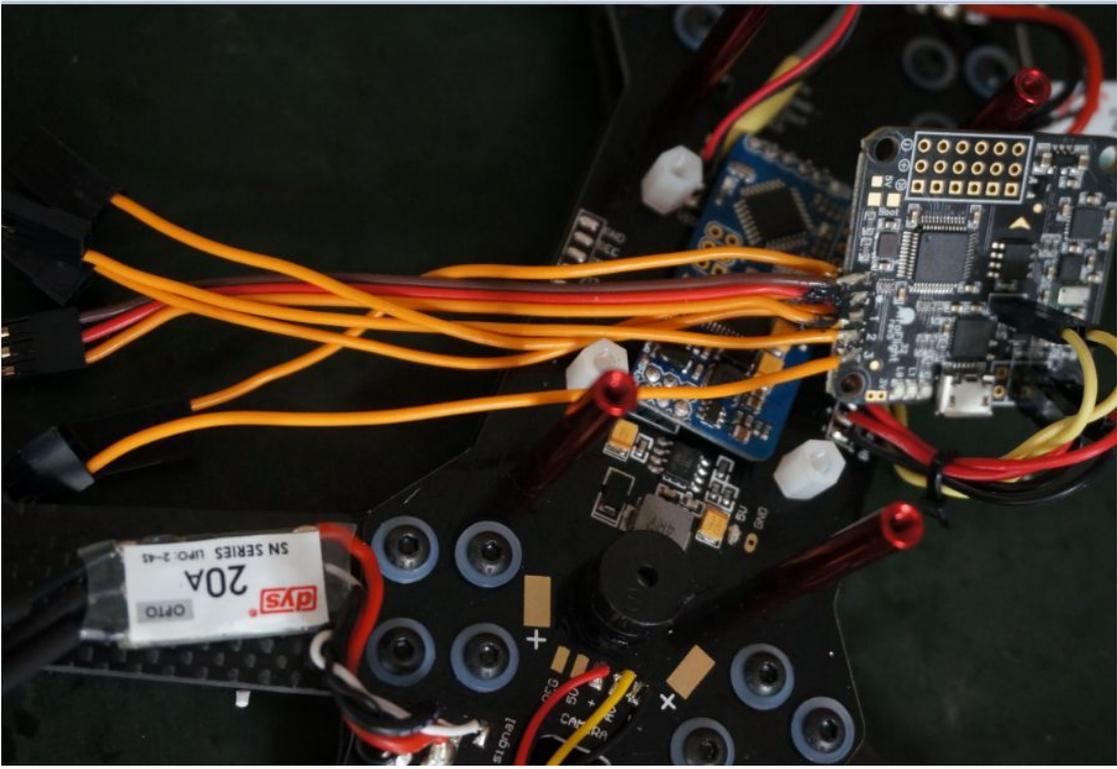
Extension

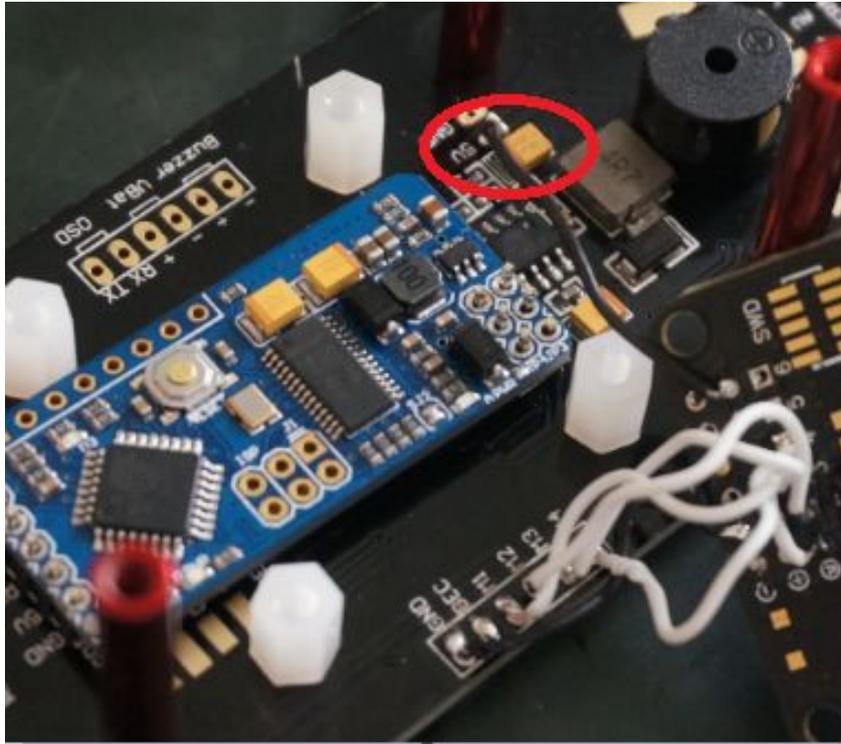


If the OSD and buzzer are installed, then you'll need to use the supplied wires to solder onto PDB. Please take notice of wire length.

Install Flight Controller







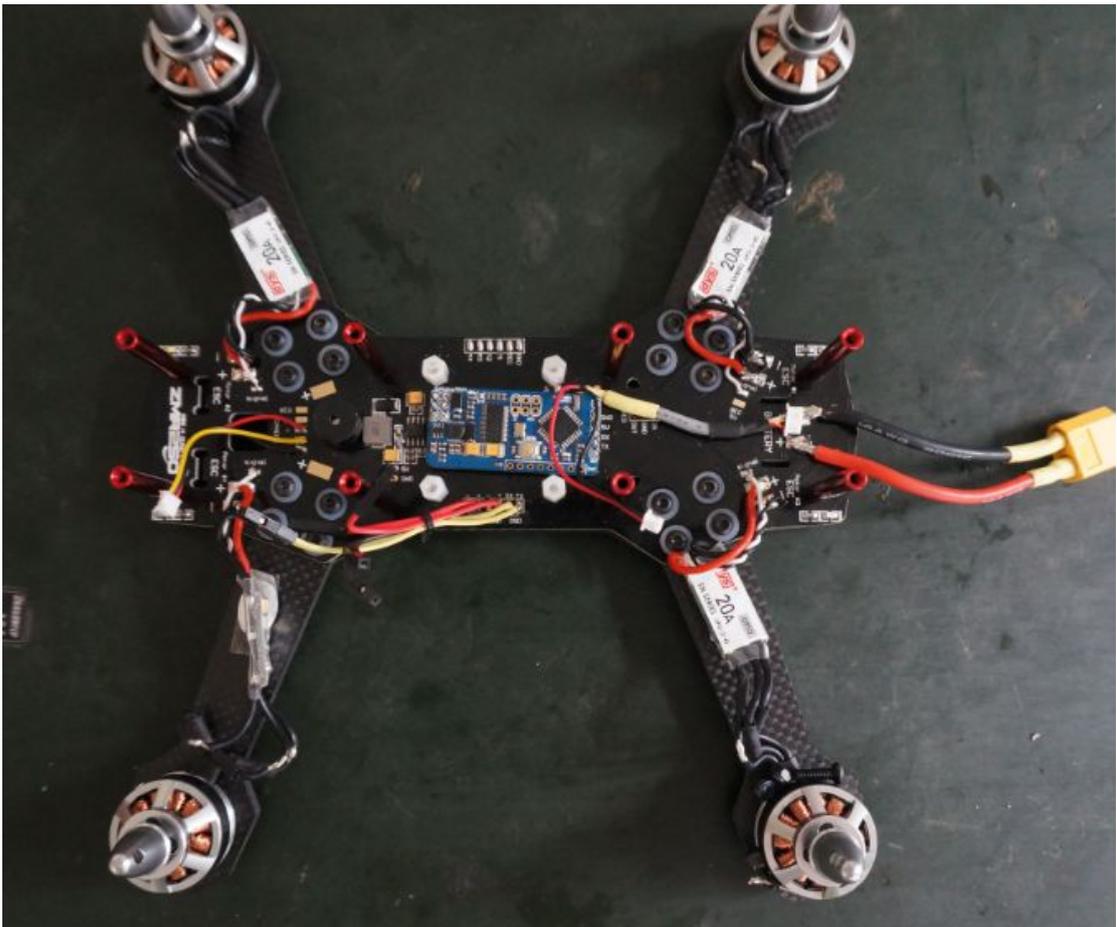
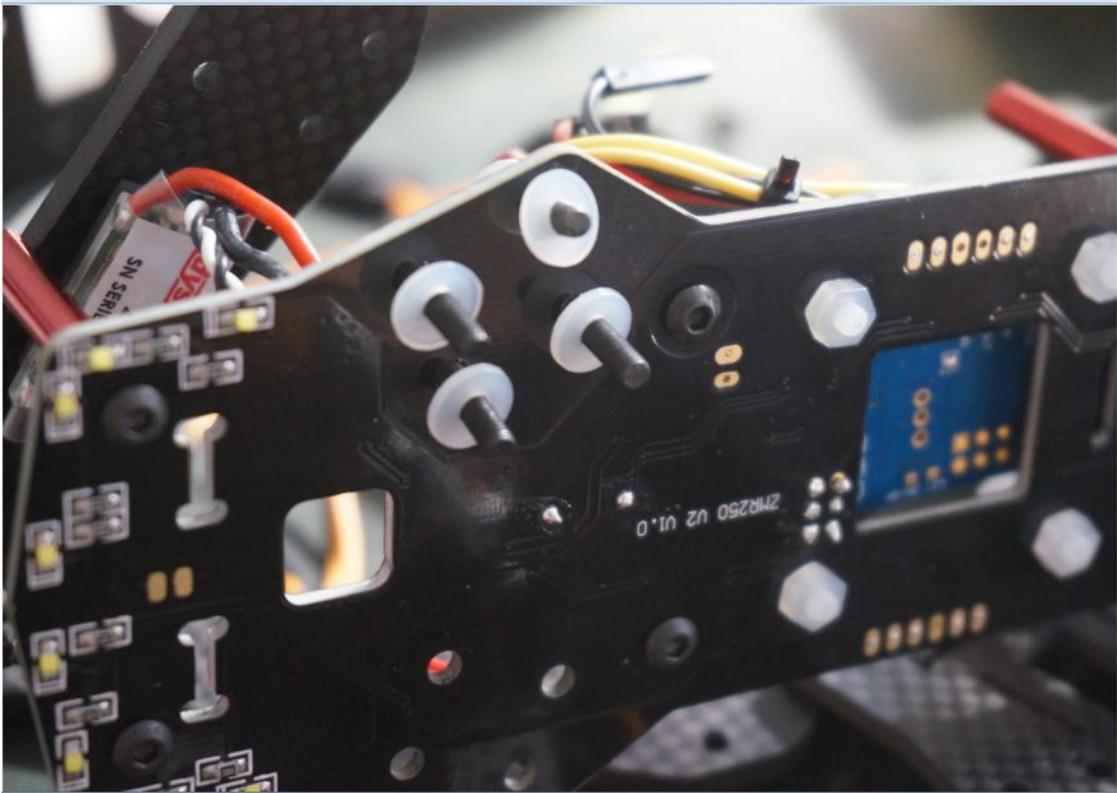
Notice on the flight controller: It doesn't require for soldering if the ESCs have no BEC. The flight controller can be powered by soldering to "5V" (circled in red).

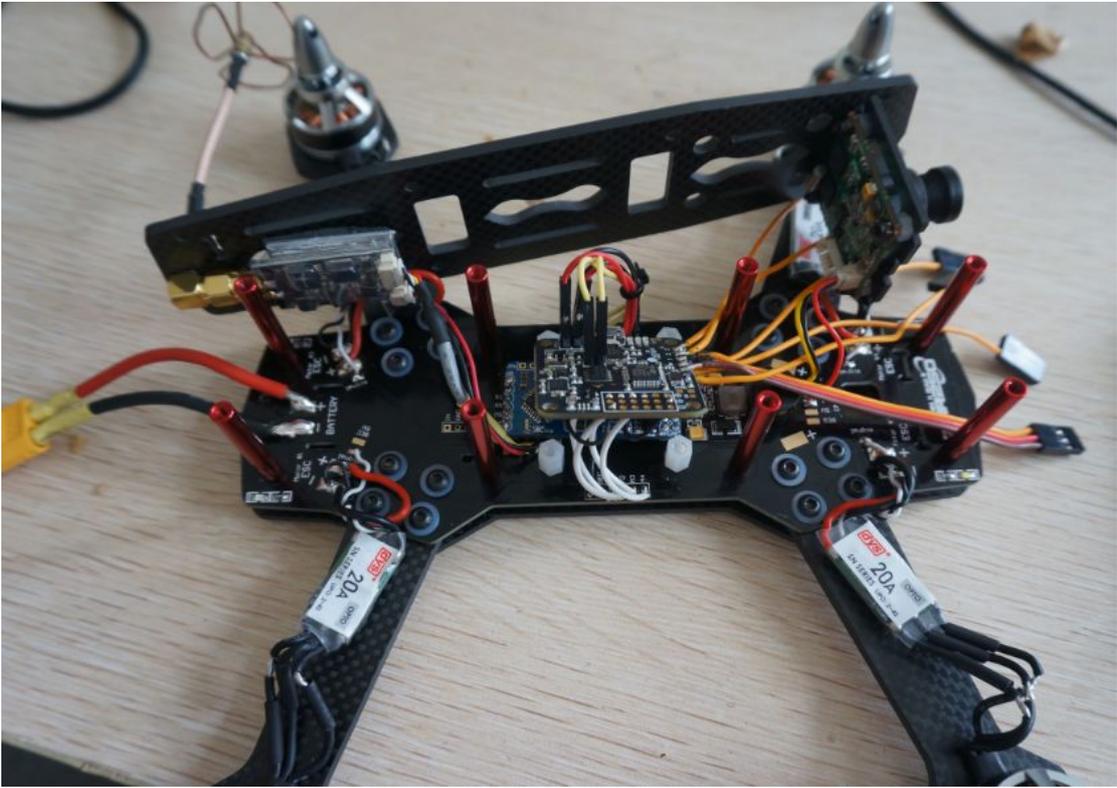
Install ZMR250 V2 Frame

Important Reminder: *If you're using the old version PDB (V1.0), you'll need to use the supplied insulation washers when fastening arms to the PDB. The washers are not required if use higher version PDB (v1.2 or above).*

Note: *The ZMR250 V2 that sold after August 25th, 2015 does not need to use the washers.*







Way to go! You've completed the ZMR250 V2 build.