Wohler-b-MarkV-WiringDiagram

Rev 1.2
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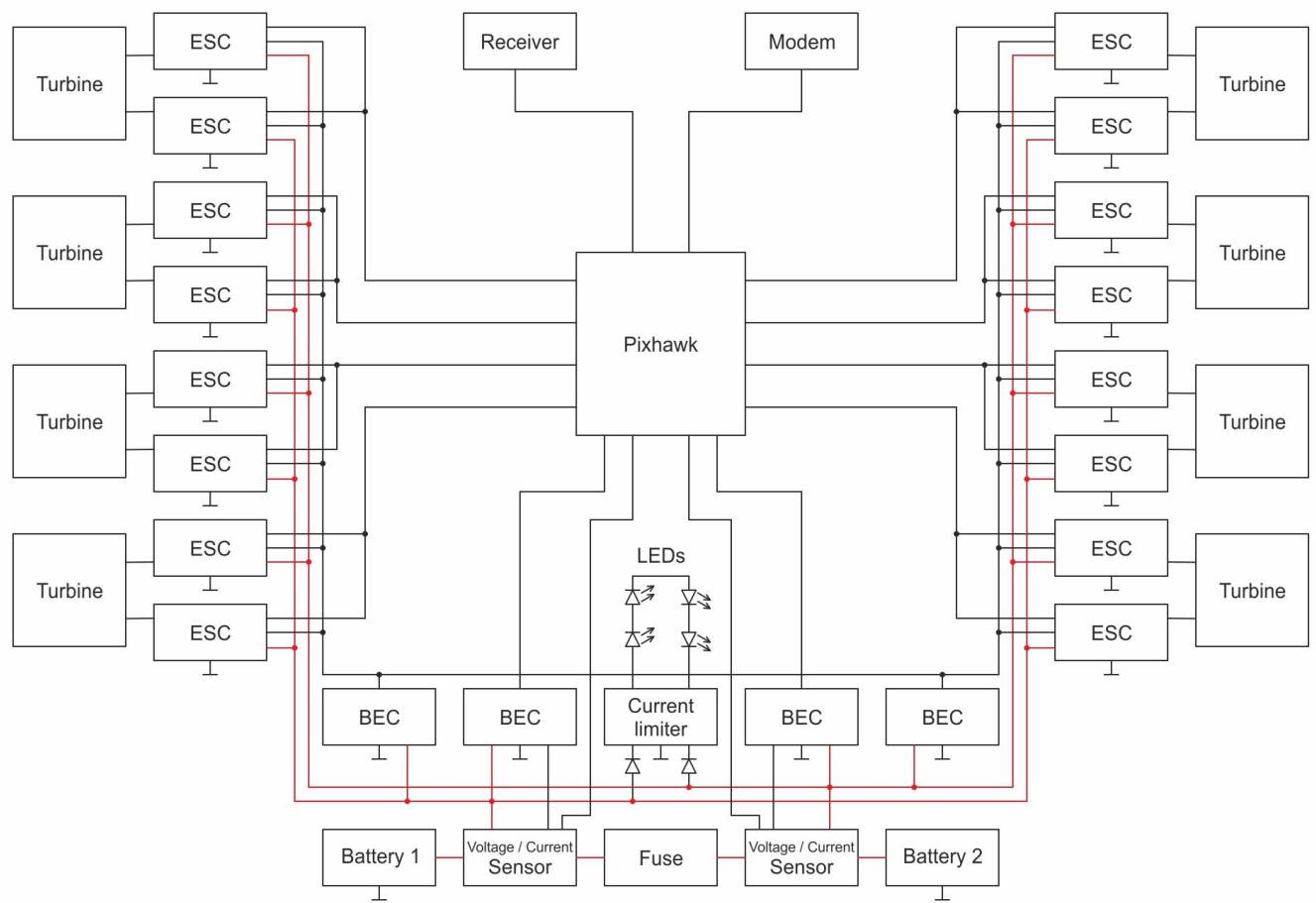
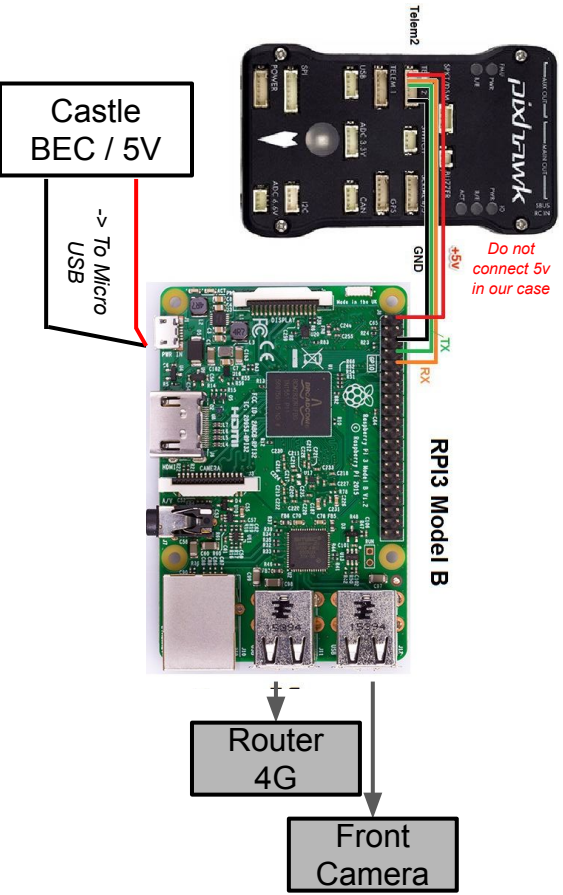
2019/09/09

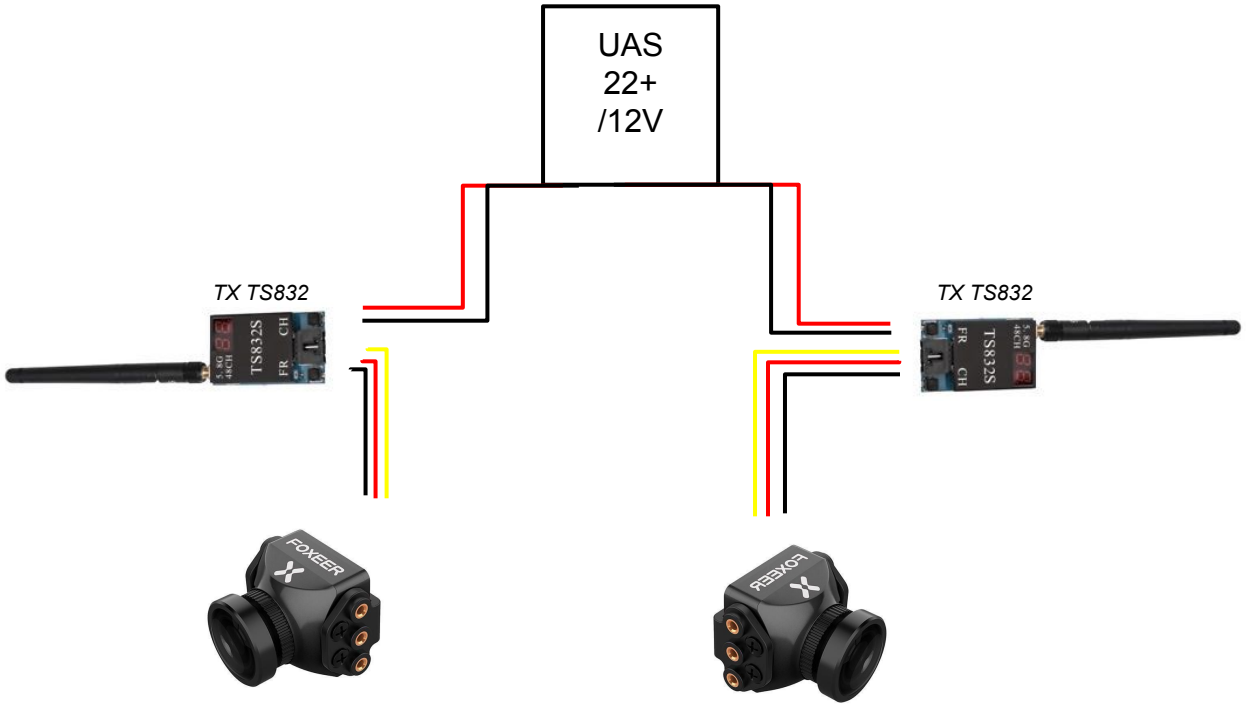
Full Main Circuit (PixHawk Circuit)



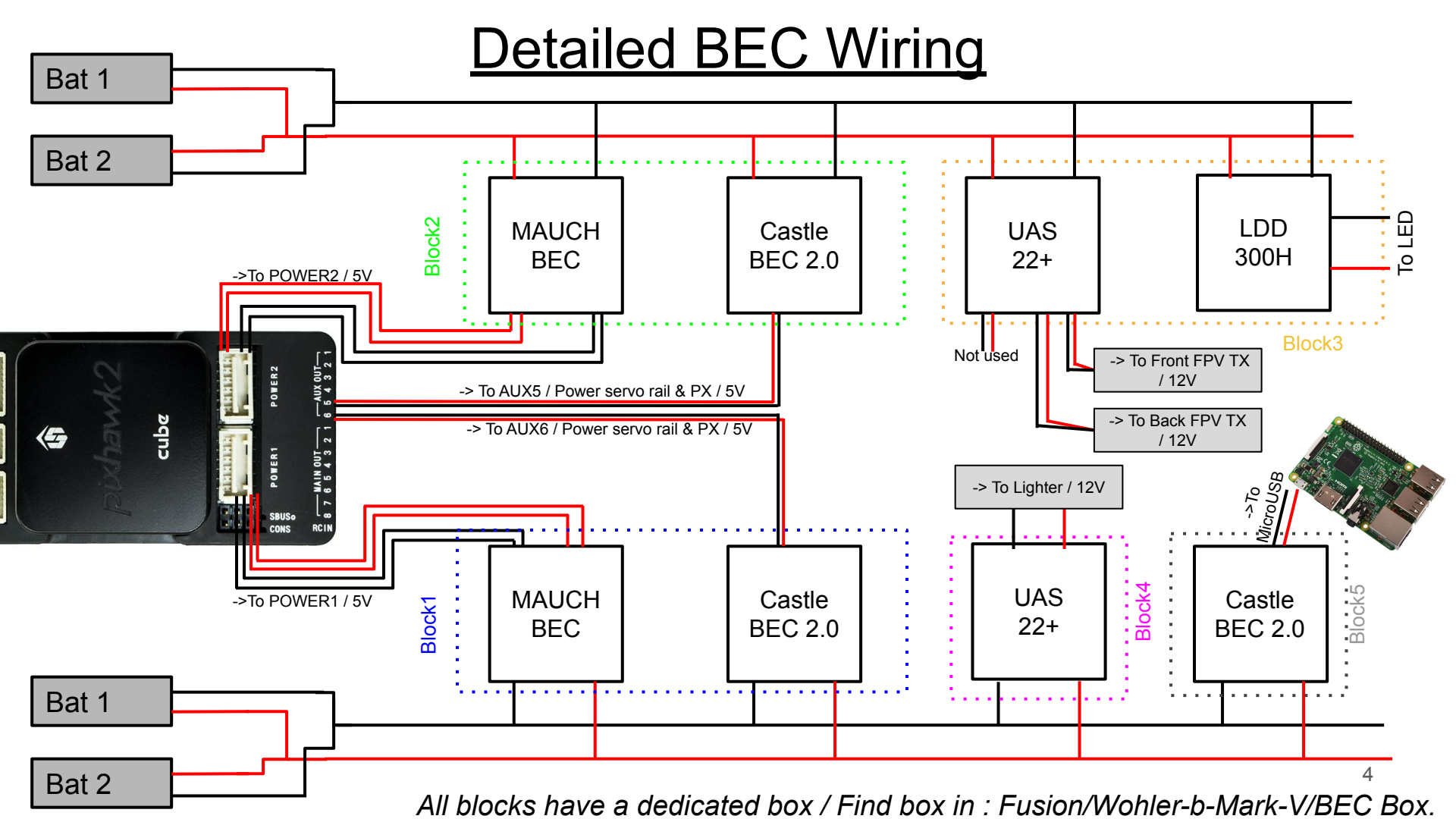
Auxiliary Circuit (Rasp, FPV TX...)



Video transmission diagram :

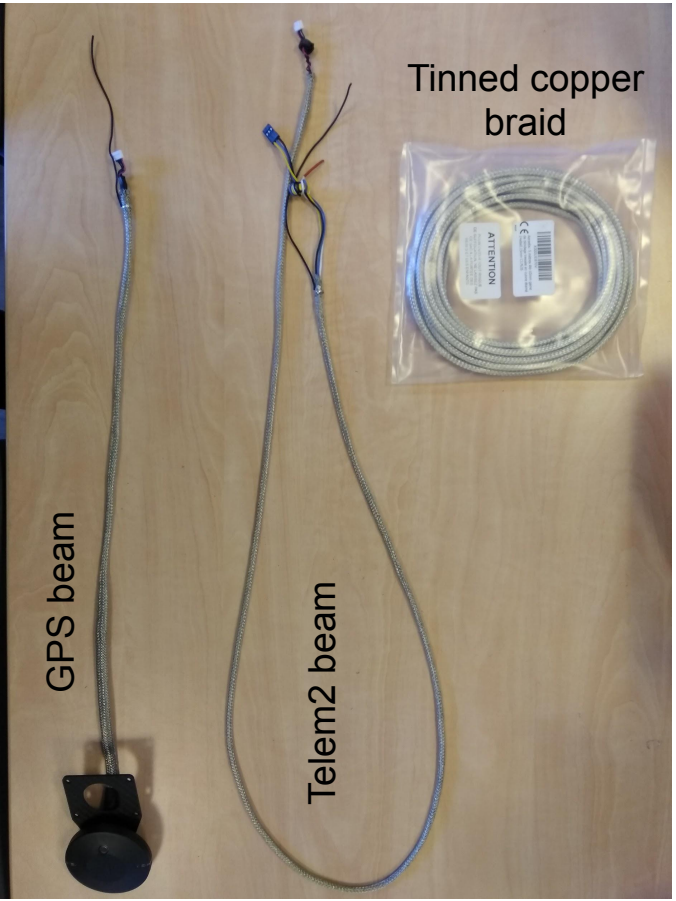


Detailed BEC Wiring

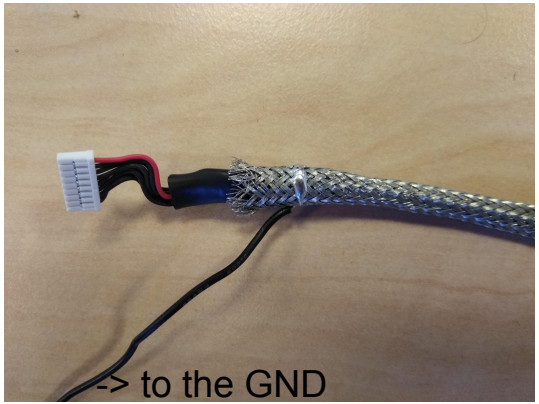


All blocks have a dedicated box / Find box in : Fusion/Wohler-b-Mark-V/BEC Box.

OEM / Electromagnetic Wave protection Part1



- **All data beams (gps and Telem1&2) have to be protected from OEM / Electromagnetic wave.**
- Use tinned copper braid to protect beam. One extremity of the braid has to be connected to the Battery GND.
- Once the beam is in the braid, you must protect all the beam with cotton tape.

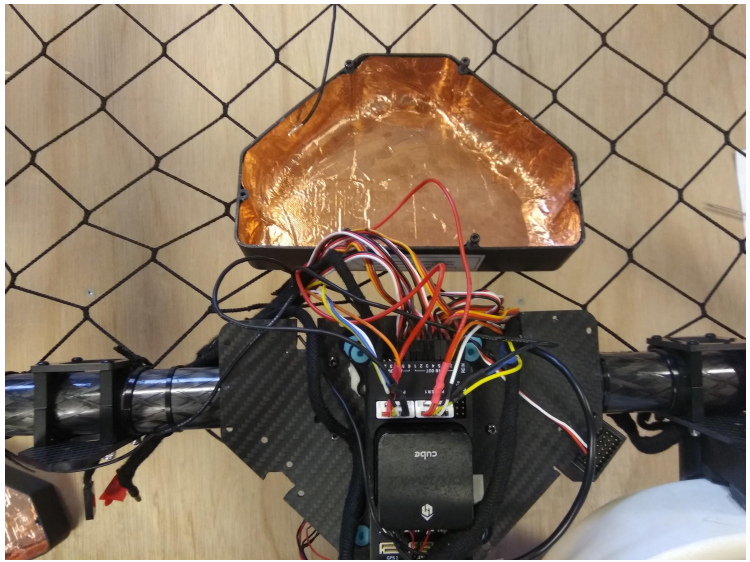


Note : You must pass the beam in the braid before soldering any connector

OEM / Electromagnetic Wave protection Part2

=> To battery GND

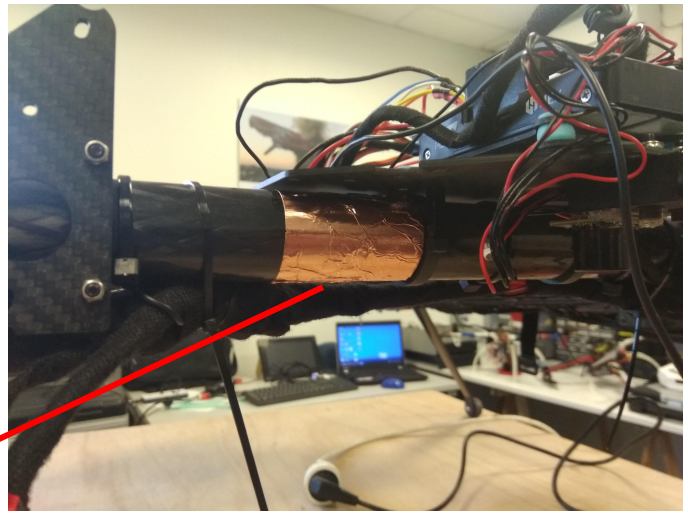
- **Autopilot and Companion computer have to be protected from OEM**
- Use copper tape to cover PixHawk box and RaspberryPi box
- Then connect copper to the Battery GND
- *Be careful : place all antennas outside of the box*



OEM / Electromagnetic Wave protection Part3

Test of carbon conductivity

- **Because Carbon is conductive, we have to connect the frame to Battery GND**
- Wrap a section of the frame with copper tape, then connect copper to the GND
- *The place where you put the tape must be discreet, commonly below the PX box is a good place. You can use cotton tape to hide the copper tape.*



Connect copper tape to GND