Hobby King 20A ESC 3A UBEC (F-20A, Atmel chip) Brushed mod

Requirements
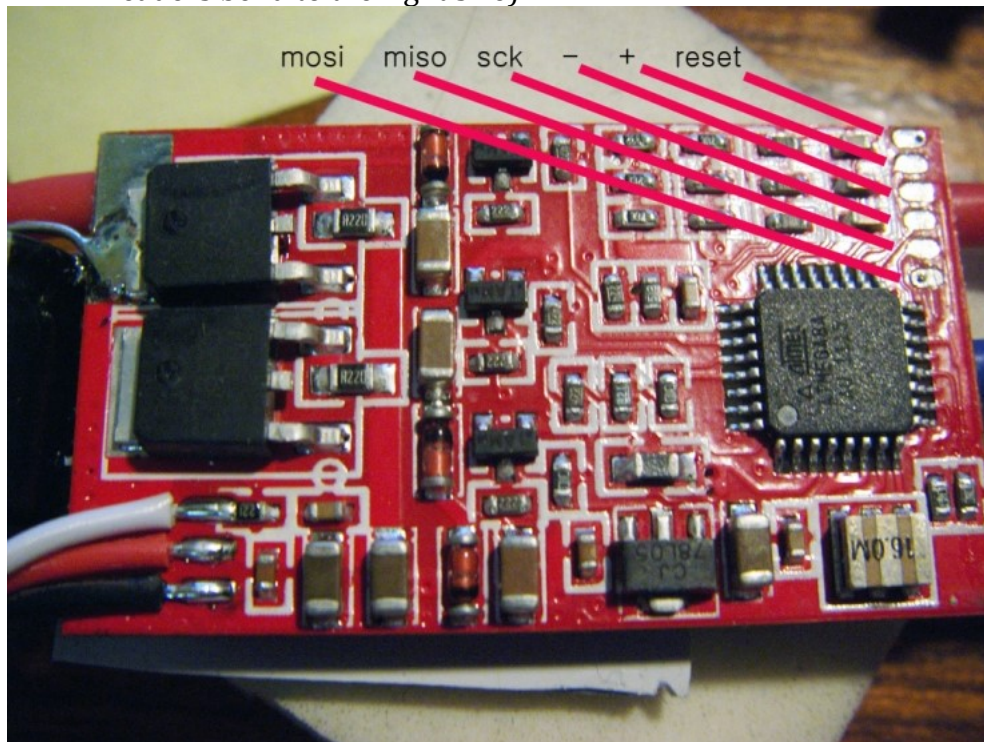- ESC: Hobby King 20A ESC 3A UBEC
- Controll board programmer: USBasp AVR Programming Device for ATMEL proccessors
- Wire/plugs/solder tools

Downloads
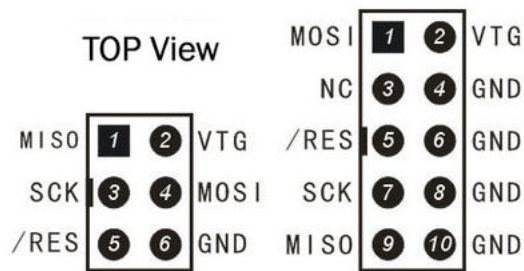- https://launchpad.net/brushed (Get the F20A_r40.hex file on the right)
- http://www.olliw.eu/2012/owsilprog/ (Scroll down to the downloads section and download the owsilprog zip file, **this includes AVRBurnTool**)

Connect
- Remove part of shrinkwrap (part in the corner of the red motor wire)
- Solder wires to the contacts or use an home made clamp (clothespin with 6 pin headers bend to the right size)

- Connect wires to the correct USBasp cable pins, see below (**WARNING: Please note that the images shows the top of the connector, so wires must be mirrored when looking at the pin side of the connector**)

TOP View

```
MOS I   1   2   VTG
NC      3   4   GND
MISO 1  2 VTG    /RES 5  6   GND
SCK  3  4 MOSI   SCK  7  8   GND
/RES 5  6 GND    MISO 9  10  GND
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Programming

- Make sure the esc is connected to the programmer, and the programmer is connected to the PC
- Power and turn on ESC (Maybe not needed if programmer provides power, just try without first)
- Open avrburntool
- Choose ISP AVR (programmer) / USBAsp / Atmega 8 / F20A-r40.hex
- Click Check Connection
- Click Burn All
- Done, disconnect everything, and test the ESC.