

HobbyKing Brushless ESC Flashing Guide

How & Why

What you need

Harness pinout:

https://lazyzero.de/_detail/modellbau/kkmulticopterflashtool/adapter/00_sch.png?id=en%3Amodellbau%3Akkmulticopterflashtool%3Astart

Attaching programming cables

Preparing software to flash

Windows

Make sure when you use Zadig to give it a libUSB variant driver, otherwise the program will not recognize the flasher.

Troubleshooting

<https://lazyzero.de/en/modellbau/kkmulticopterflashtool/faq#programmer>

macOS

Run the app in 32-bit mode (Right-click app, 'Get Info', option is 1/4 way down)

https://lazyzero.de/en/modellbau/kkmulticopterflashtool/manual#run_the_flash_tool

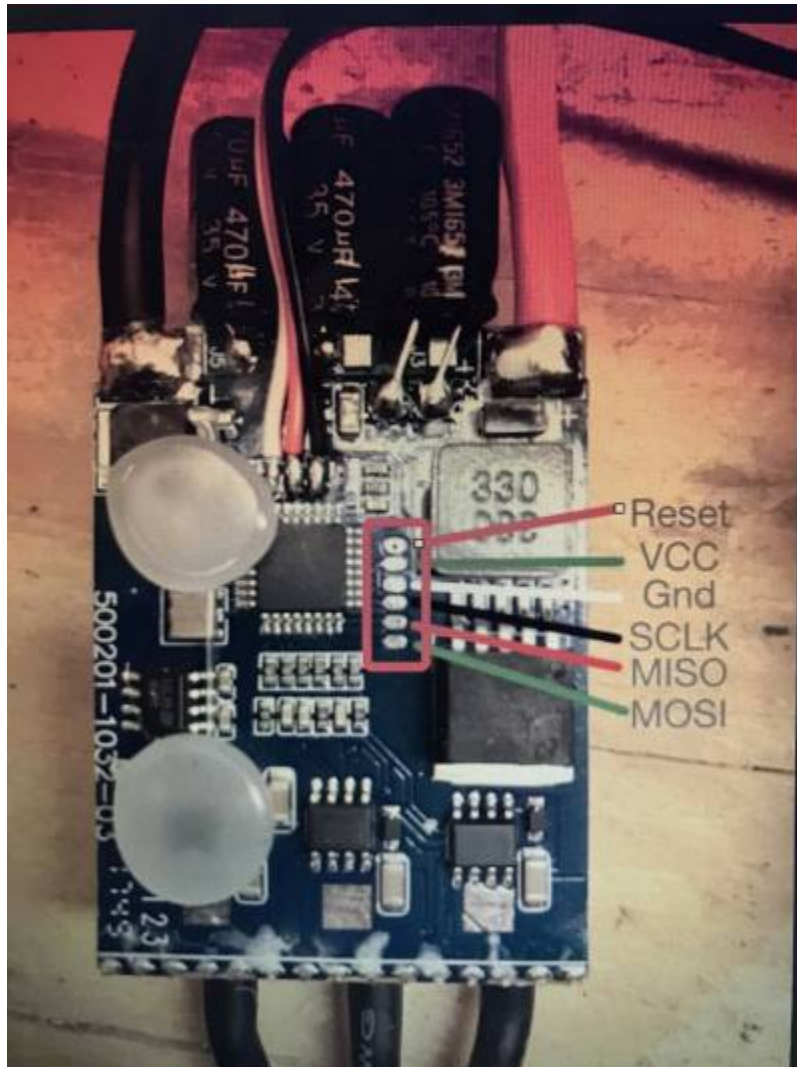
(Maybe?) Java dependancy: https://support.apple.com/kb/DL1572?locale=en_US

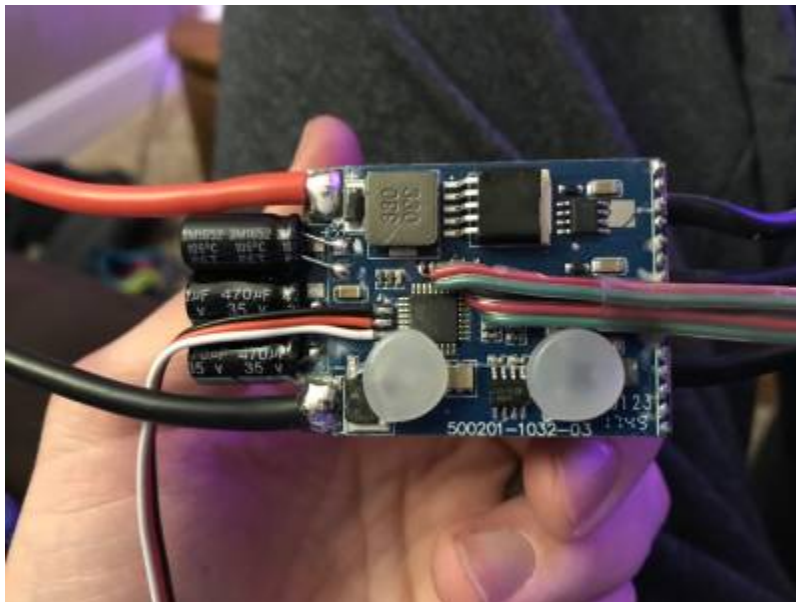
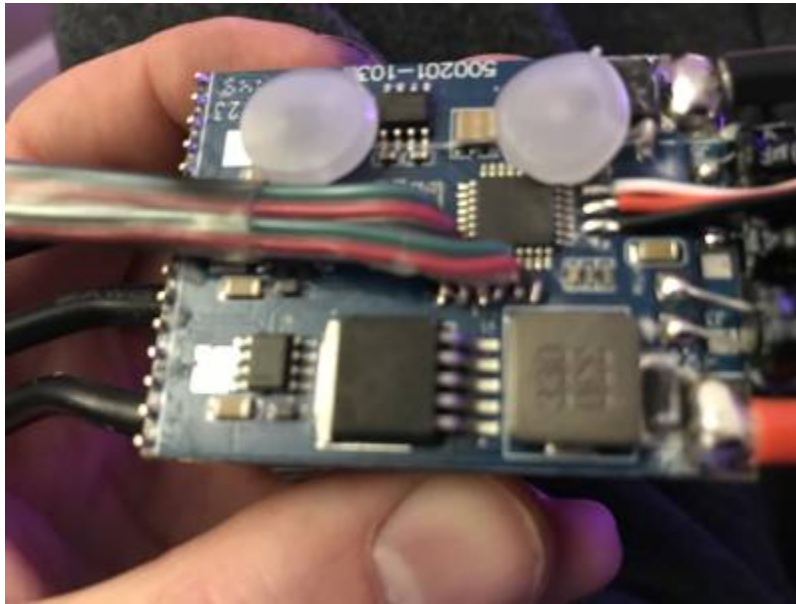
Flashing the ESC

<http://www.rcgroups.com/forums/showthread.php?t=1513678>

Specific ESC firmware files

Red Brick 75A/200A ESCs





Here's the quote from the Brushless Hipsters FB Group/Github Pull Request via Kyle Singer:

"Sorry this took so long but I've been busy. Here is my original post in the brushless hipsters about it. Check your pins they should match this

Newer even bluer 70a red brick. Traces look the same as the old one from what I can tell. Different serial number is a concern. Thoughts?

EDIT ok so after being carefully guided by Mr. Kelly we have a new file for the newest bluest board. It's really the 70a2 with one tiny change but it matters. If someone wants to put this on gethub for the masses that would be awesome. I'm also updating the board picture to include both sides in case someone wants to add it to the spreadsheet."

rb70av3

```
;*****  
;  
;* Red Brick 70A first seen November 2016 *  
  
;* Blue circuit board labeled 500403-1040-02 *  
;*****  
.equ F_CPU = 16000000  
.equ USE_INT0 = 1  
.equ USE_I2C = 0  
.equ USE_UART = 0  
.equ USE_ICP = 0  
;*****  
; PORT D definitions *  
;*****  
.equ c_comp = 6 ;10 i common comparator input (AIN0)  
.equ AnFET = 5 ;30 o  
.equ ApFET = 4 ;31 o  
.equ rcp_in = 2 ;32 i r/c pulse input  
.equ INIT_PD = 0  
.equ DIR_PD = (1<<ApFET)+(1<<AnFET)  
.equ ApFET_port = PORTD  
.equ AnFET_port = PORTD  
;*****  
; PORT C definitions *  
;*****  
.equ mux_c = 7 ; ADC7 voltage input (47k from Vbat, 2.0k to gnd, 10.10V in ->  
.402V at ADC7)  
.equ mux_a = 6 ; ADC6  
.equ CpFET = 5 ; ADC5  
.equ CnFET = 4 ; ADC4  
.equ BpFET = 3 ; ADC3  
.equ mux_voltage = 2 ; ADC2  
; .equ = 1 ; ADC1  
.equ mux_b = 0 ; ADC0  
.equ BpFET_port = PORTC  
.equ CpFET_port = PORTC  
.equ CnFET_port = PORTC  
.equ O_POWER = 47  
.equ O_GROUND = 2  
.equ INIT_PC = 0  
.equ DIR_PC = (1<<BpFET)+(1<<CpFET)+(1<<CnFET)  
;*****  
; PORT B definitions *  
;*****  
; .equ = 7  
; .equ = 6  
; .equ = 5 (sck stk200 interface)  
; .equ = 4 (miso stk200 interface)
```

```
;.equ = 3 (mosi stk200 interface)
;.equ = 2
;.equ = 1
.equ BnFET = 0
.equ BnFET_port = PORTB
.equ INIT_PB = 0
.equ DIR_PB = (1<<BnFET)
```

From:

<https://wiki.jonathandurand.com/> - **Jon's Repository of Info**

Permanent link:

https://wiki.jonathandurand.com/doku.php?id=combat_robots:brushless_escs

Last update: **2019/03/13 13:32**

