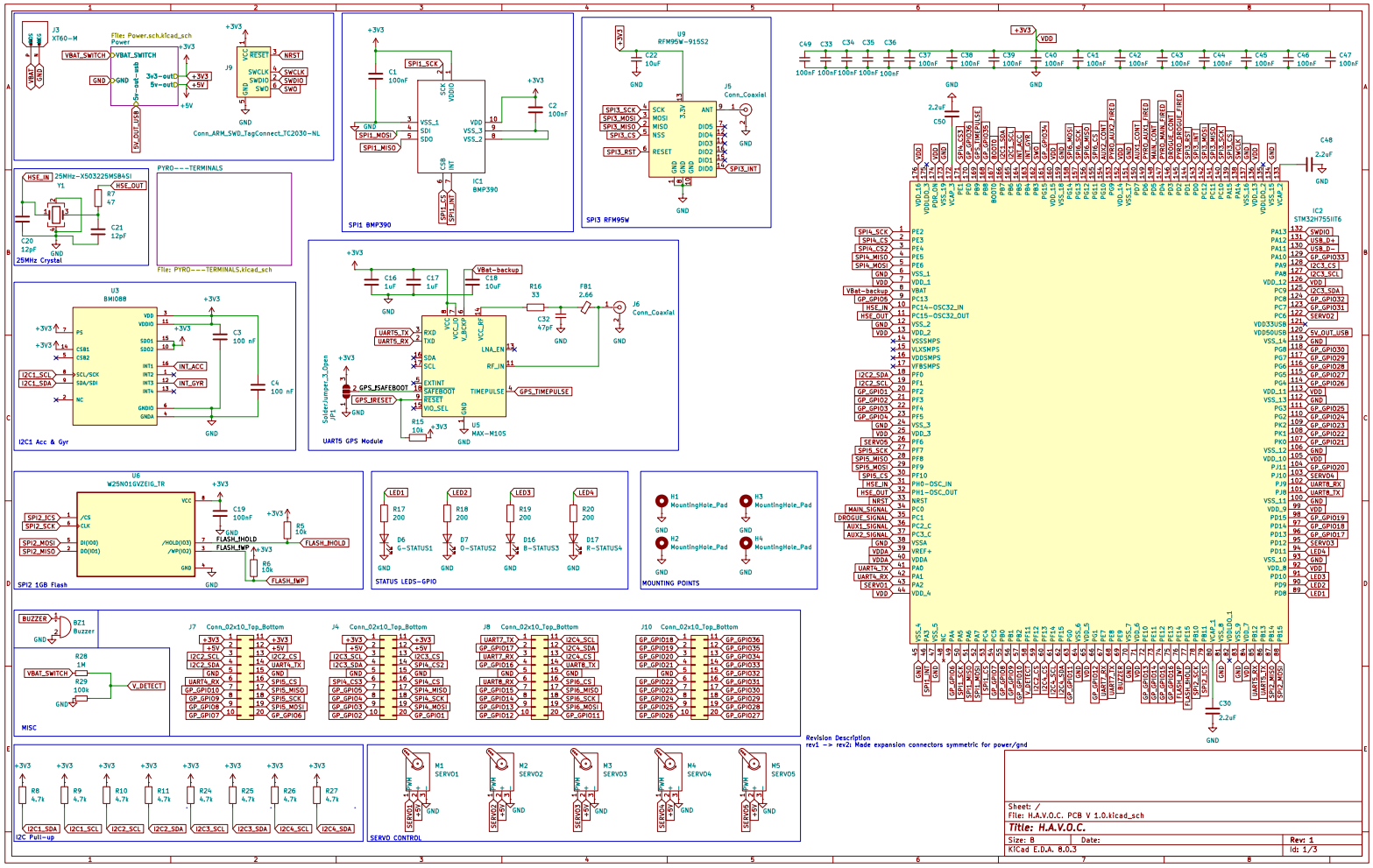
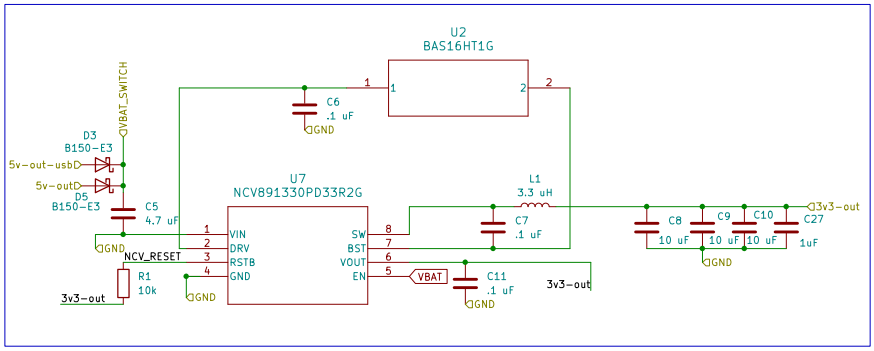
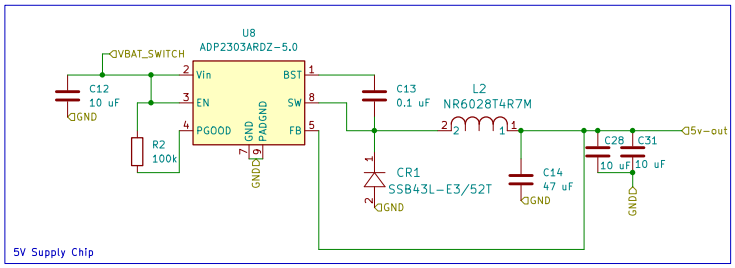
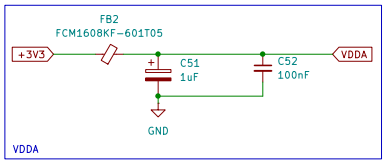

J3
XT60-M
VBAT_SWITCH
GND
File: Power.sch.kicad_sch
Power
3V3
3v3-out
5v-out
+3V3
+5V
5V_OUT_USB
+5V
J9
SWCLK
SWDIO
SWO
NRST
Conn_ARM_SWD_TagConnect_TC2030-NL
SPI1 BMP390
C1
100nF
C2
100nF
IC1
BMP390
SPI1_SCK
SPI1_MOSI
SPI1_MISO
SPI1_CS
SPI1_INT
SPI3 RFM95W
U9
RFM95W-915S2
C22
10uF
J6
Conn_Coaxial
SPI3_SCK
SPI3_MOSI
SPI3_MISO
SPI3_CS
SPI3_RST
SPI3_INT
C49
C33
C34
C35
C36
C37
C38
C39
C40
C41
C42
C43
C44
C45
C46
C47
100nF
C50
2.2uF
C48
2.2uF
C30
2.2uF
IC2
STM32H755IIT6
HSE_IN
25MHz-X5032225MSB4SI
Y1
HSE_OUT
R7
47
C20
12pF
C21
12pF
25MHz Crystal
PYRO---TERMINALS
File: PYRO---TERMINALS.kicad_sch
U3
BMI088
I2C1 Acc & Gyr
C3
100 nF
C4
100 nF
INT_ACC
INT_GYR
I2C1_SCL
I2C1_SDA
C16
1uF
C17
1uF
C18
10uF
VBat-backup
R16
33
FB1
2.66
C32
47pF
J6
Conn_Coaxial
UART5_TX
UART5_RX
2 GPS_JSAFEBOOT
GPS_IRESET
GPS_TIMEPULSE
R15
10k
SolderJumper-3_Open
JP1
U5
MAX-M10S
UART5 GPS Module
U6
W25N01GVZEIG_TR
SPI2 1GB Flash
SPI2_ICS
SPI2_SCK
SPI2_MOSI
SPI2_MISO
C19
100nF
R5
10k
R6
10k
FLASH_IHOLD
FLASH_IWP
LED1
LED2
LED3
LED4
R17
200
R18
200
R19
200
R20
200
D6
G-STATUS1
D7
O-STATUS2
D16
B-STATUS3
D17
R-STATUS4
STATUS LEDS-GPIO
H1
MountingHole_Pad
H2
MountingHole_Pad
H3
MountingHole_Pad
H4
MountingHole_Pad
MOUNTING POINTS
BUZZER
BZ1
Buzzer
R28
1M
R29
100k
VBAT_SWITCH
V_DETECT
MISC
J7
J4
J8
J10
Conn_02x10_Top_Bottom
R8
R9
R10
R11
R24
R25
R26
R27
4.7k
I2C Pull-up
M1
SERVO1
M2
SERVO2
M3
SERVO3
M4
SERVO4
M5
SERVO5
SERVO CONTROL
Revision Description
rev1 -> rev2: Made expansion connectors symmetric for power/gnd
Sheet: /
File: H.A.V.O.C. PCB V 1.0.kicad_sch
Title: H.A.V.O.C.
Size: B
Date:
Rev: 1
KiCad E.D.A. 8.0.3
Id: 1/3

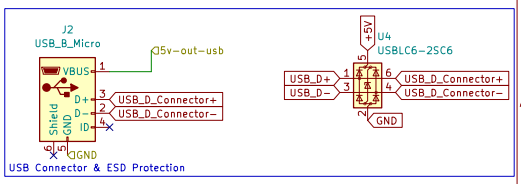
Input Voltage: 4-20 Volts.
*If using TVC Servos, ensure power source is capable of supplying 750 mA + (Sum of current for x number of TVC Servos)
*Ideally pouch LiPo/18650 Li-ion cells to be used for power source.

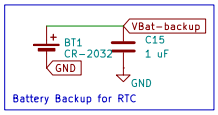
USB-Micro is only capable of 1.5 A if the power suuply is capable.
-The board can be supplied by the included Micro-USB, IF the following IS NOT being used:
    -Testing pyro channels with ematches connected
    -Using TVC Servos
    -Using the built-in expansion ports to breakout to additional module boards

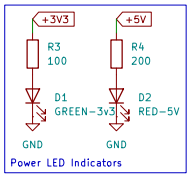


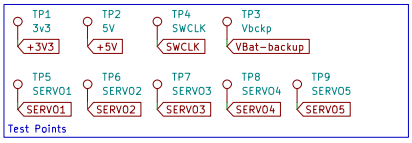


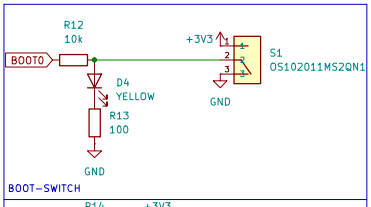












Revision Description
rev1 -> rev2: Fixed a short on reg. U7
Corrected resistor values for proper LED current

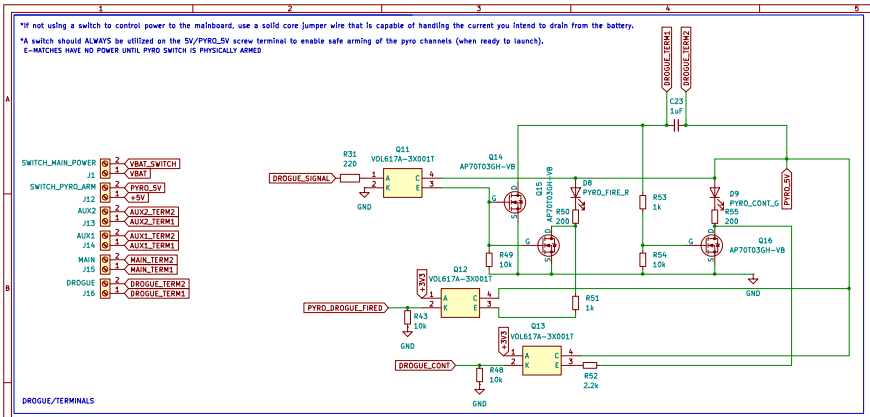
Sheet: /Power/
File: Power.sch.kicad_sch

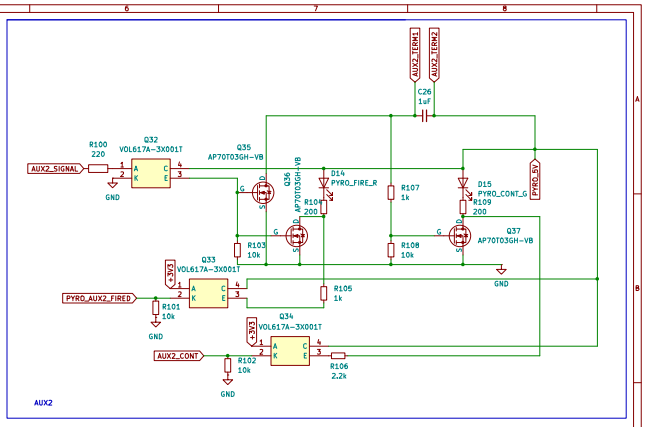
Title: H.A.V.O.C.

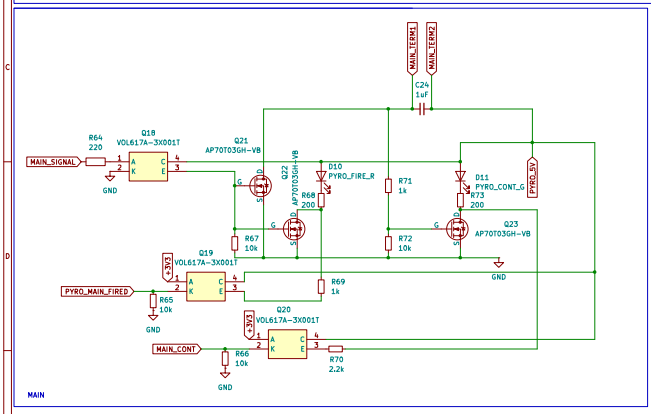
Size: A4	Date:	Rev: 1
KiCad E.D.A. 8.0.3		Id: 2/3

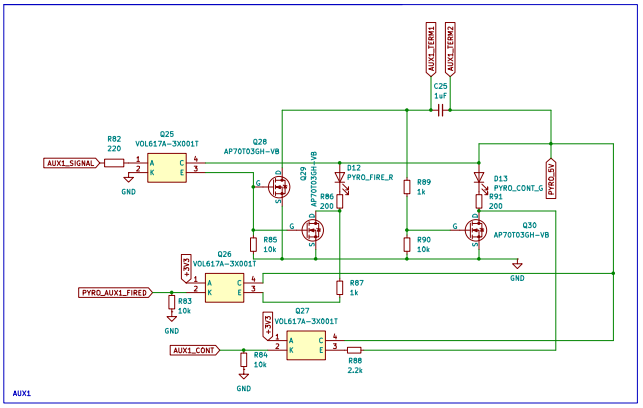
*If not using a switch to control power to the mainboard, use a solid core jumper wire that is capable of handling the current you intend to drain from the battery.

*A switch should ALWAYS be utilized on the 5V/PYRO_5V screw terminal to enable safe arming of the pyro channels (when ready to launch).
E-MATCHES HAVE NO POWER UNTIL PYRO SWITCH IS PHYSICALLY ARMED









REFERENCE: EE-STACK EXCHANGE

https://electronics.stackexchange.com/questions/707473/how-can-i-make-a-continuity-check-for-a-model-rocket-igniter

Revision Description
rev1 -> rev2: Removed current limiting resistors from before each screw terminal.

Sheet: /PYRO---TERMINALS/	
File: PYRO---TERMINALS.kicad_sch	
Title:	
Size: B	Date:
KiCad E.D.A. 8.0.3	Rev:
	Id: 3/3