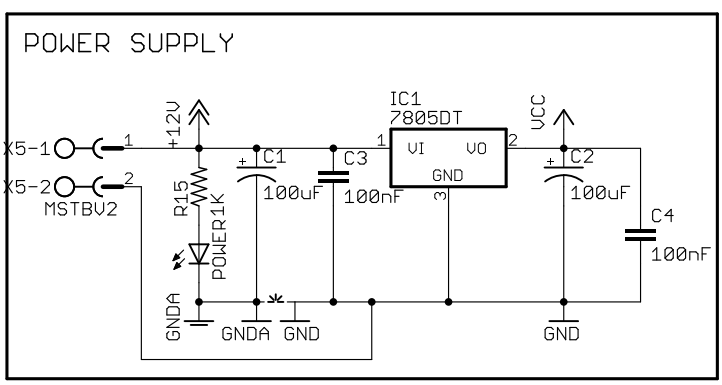
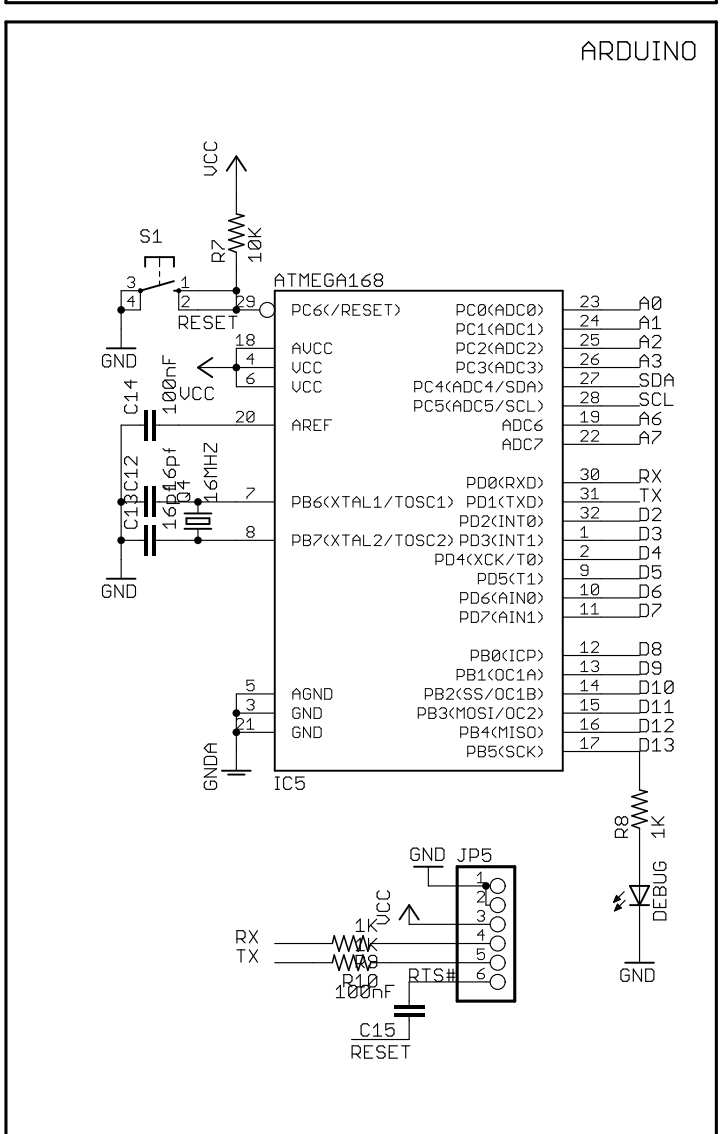
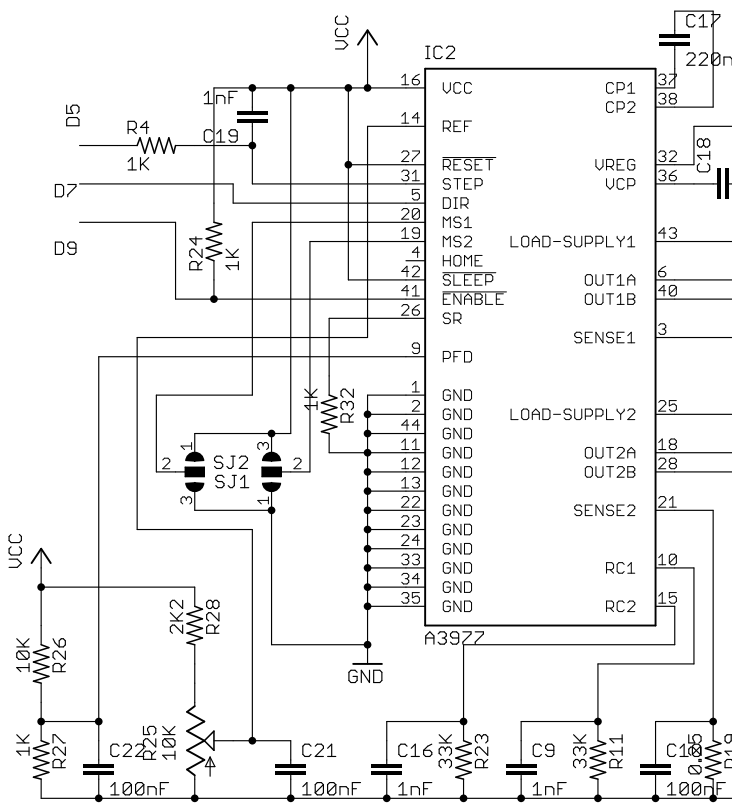
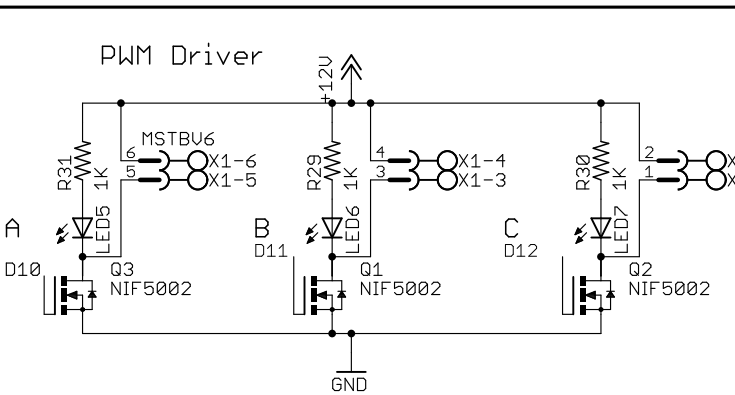
Extruder Controller v2.3

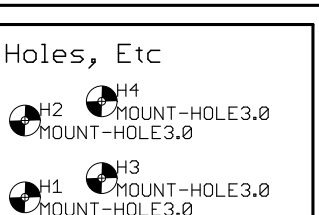
make.rrrf.

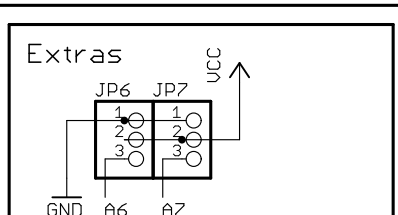












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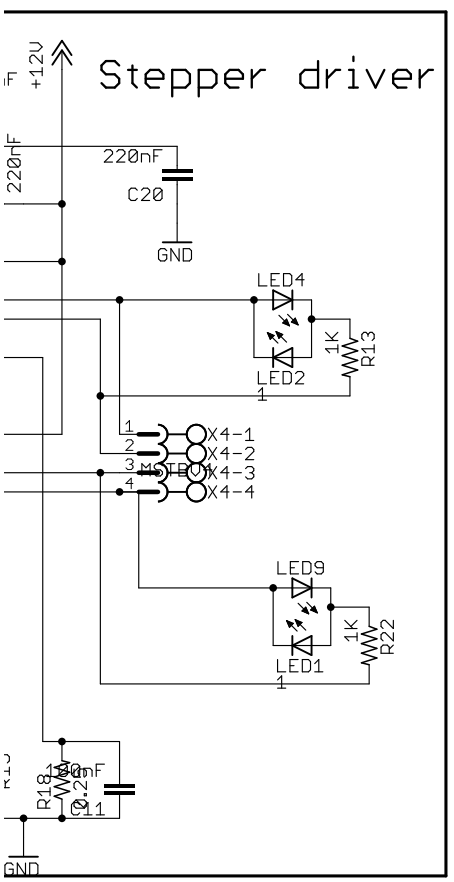
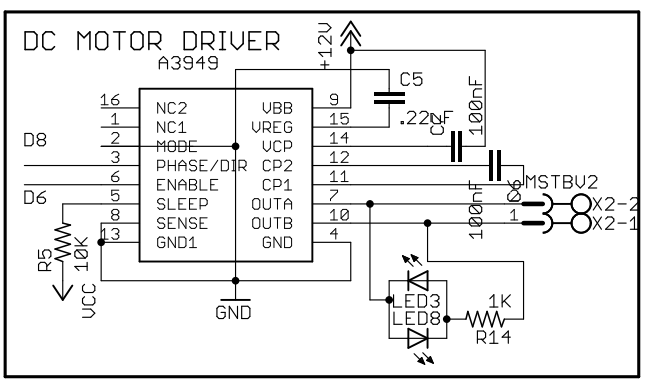
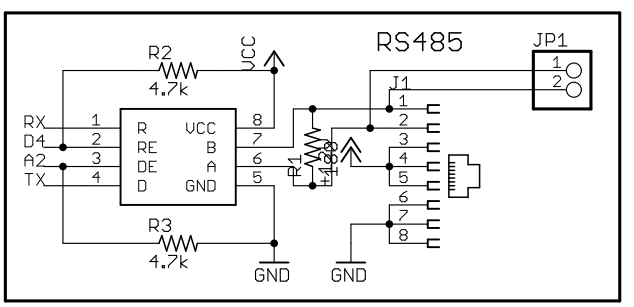
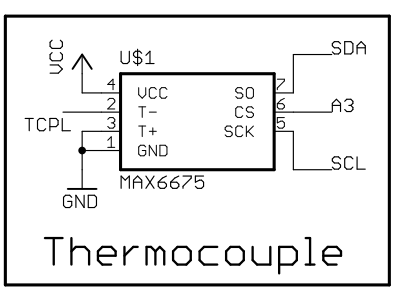
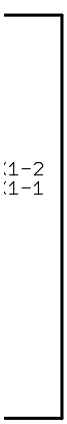
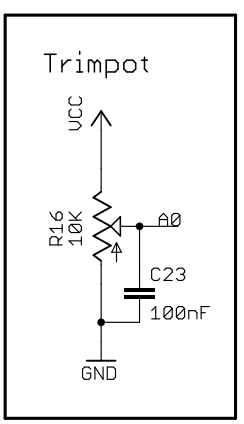

Stepper driver
+12V
220nF
C20
GND
LED4
LED2
1K
R13
X4-1
X4-2
X4-3
X4-4
LED9
LED1
1K
R22
GND

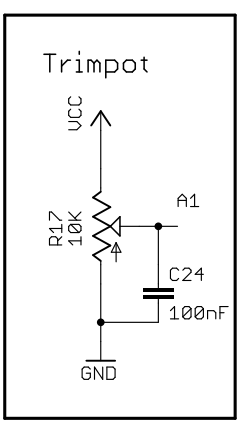

DC MOTOR DRIVER
A3949
+12V
C5
.22uF
100nF
D8
D6
NC2
NC1
MODE
PHASE/DIR
ENABLE
SLEEP
SENSE
GND1
VBB
VREG
VCP
CP2
CP1
OUTA
OUTB
GND
MSTBV2
X2-2
X2-1
R5
10K
VCC
GND
LED3
LED8
1K
R14

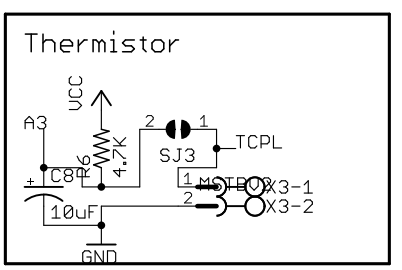

RS485
JP1
R2
4.7k
VCC
RX
D4
A2
TX
R
RE
DE
D
VCC
B
A
GND
R1
120
R3
4.7k
J1
GND
GND

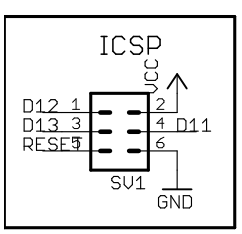

VCC
U$1
TCPL
VCC
T-
T+
GND
SO
CS
SCK
SDA
A3
SCL
MAX6675
GND
Thermocouple

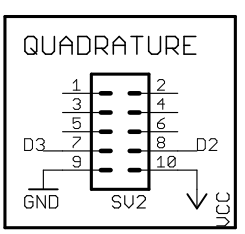


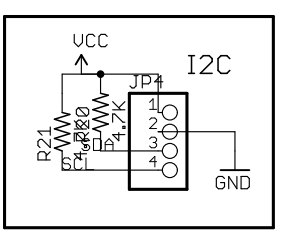

Trimpot
VCC
R16
10K
A0
C23
100nF
GND


Trimpot
VCC
R17
10K
A1
C24
100nF
GND


Thermistor
A3
VCC
R6
4.7K
C8
10uF
SJ3
TCPL
MSTBV2
X3-1
X3-2
GND


ICSP
VCC
D12
D13
RESET
D11
SV1
GND


QUADRATURE
D3
D2
GND
SV2
VCC


VCC
I2C
JP1
R21
2.2K
SDA
4.7K
GND