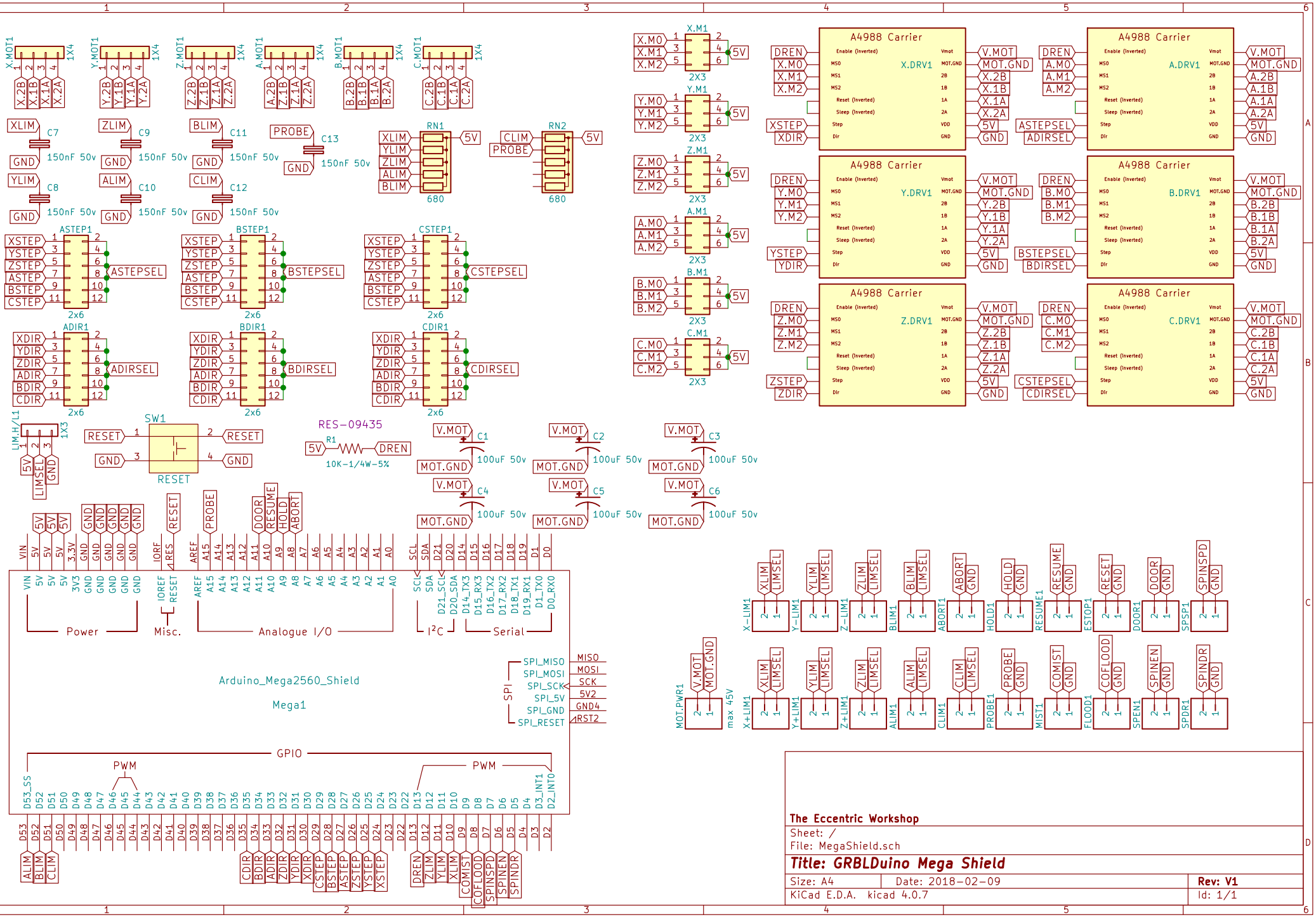
X.MOT1
Y.MOT1
Z.MOT1
A.MOT1
B.MOT1
C.MOT1
1X4
X.2B X.1B X.1A X.2A
Y.2B Y.1B Y.1A Y.2A
Z.2B Z.1B Z.1A Z.2A
A.2B A.1B A.1A A.2A
B.2B B.1B B.1A B.2A
C.2B C.1B C.1A C.2A
XLIM ZLIM BLIM PROBE
YLIM ALIM CLIM
C7 C8 C9 C10 C11 C12 C13
GND
150nF 50v
RN1
RN2
5V
680
ASTEP1
BSTEP1
CSTEP1
2x6
XSTEP YSTEP ZSTEP ASTEP BSTEP CSTEP
ASTEPSEL BSTEPSEL CSTEPSEL
ADIR1
BDIR1
CDIR1
XDIR YDIR ZDIR ADIR BDIR CDIR
ADIRSEL BDIRSEL CDIRSEL
X.M1
Y.M1
Z.M1
A.M1
B.M1
C.M1
2X3
X.M0 X.M1 X.M2
Y.M0 Y.M1 Y.M2
Z.M0 Z.M1 Z.M2
A.M0 A.M1 A.M2
B.M0 B.M1 B.M2
C.M0 C.M1 C.M2
A4988 Carrier
X.DRV1
Y.DRV1
Z.DRV1
A.DRV1
B.DRV1
C.DRV1
DREN XSTEP XDIR
YSTEP YDIR
ZSTEP ZDIR
ASTEPSEL ADIRSEL
BSTEPSEL BDIRSEL
CSTEPSEL CDIRSEL
V.MOT MOT.GND
X.2B X.1B X.1A X.2A
Y.2B Y.1B Y.1A Y.2A
Z.2B Z.1B Z.1A Z.2A
A.2B A.1B A.1A A.2A
B.2B B.1B B.1A B.2A
C.2B C.1B C.1A C.2A
LIM_H/L1
LIMSEL
SW1
RESET
RES-09435
R1
10K-1/4W-5%
V.MOT
MOT.GND
C1 C2 C3 C4 C5 C6
100uF 50v
Power
Misc.
Analogue I/O
I²C
Serial
SPI
SPI_MISO SPI_MOSI SPI_SCK SPI_5V SPI_GND SPI_RESET
MISO MOSI SCK 5V2 GND4 RST2
Arduino_Mega2560_Shield
Mega1
GPIO
PWM
X-LIM1 Y-LIM1 Z-LIM1 BLIM1 ABORT1 HOLD1 RESUME1 ESTOP1 DOOR1 SPSP1
X+LIM1 Y+LIM1 Z+LIM1 ALIM1 CLIM1 PROBE1 MIST1 FLOOD1 SPEN1 SPDR1
MOT.PWR1
max 45V
The Eccentric Workshop
Sheet: /
File: MegaShield.sch
Title: GRBLDuino Mega Shield
Size: A4
Date: 2018-02-09
Rev: V1
KiCad E.D.A. kicad 4.0.7
Id: 1/1