

RAMPS 1.4

<http://reprap.org/wiki/ramps>



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!!! Reversing input power, and/or inserting stepper drivers incorrectly will destroy electronics and cause fire hazard!!!

Test all electronics thoroughly before placing into service.

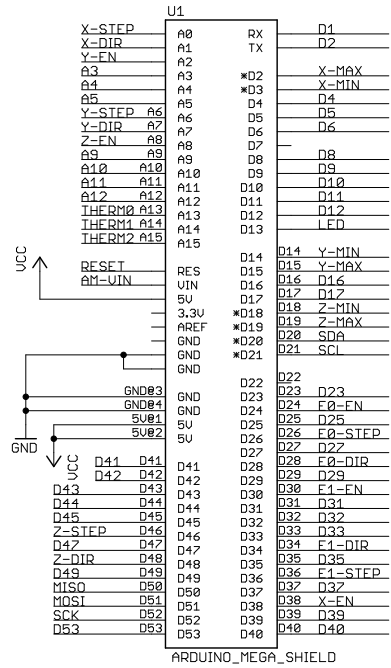
Do not leave power supplied to electronics unattended, or run machines unattended due to the risk of fire and malfunction.

This is NOT a toy and it contains small and sharp parts. Children can choke or suffocate by swallowing small objects. Keep all parts away from children and never leave printer/parts unattended.

Bill of Materials

Qty	Part Name	Value	Package
3	C1,C5,C8	10uF	153CLV-0405
1	C2	100nF	C0805
6	C3,C4,C6,C7,C9,C10	100uF	153CLV-0605
2	D1,D2	1N4004	DO41-10
1	F1	MFR500	MFR500
1	F2	MFR1100	MFR1100
1	LED1	green	CHIP-LED0805
3	LED2,LED3,LED4	red	CHIP-LED0805
3	Q1,Q2,Q3	STP55NF06L	TO220BV
5	R1,R7,R11,R21,R22	4.7K (1%)	R0805
8	R2,R3,R4,R5,R6,R8,R9,R10	100k	R0805
1	R12	1K	R0805
3	R23,R24,R26	1.8K	R0806
3	R13,R14,R15	10r	R0805
5	R16,R17,R18,R19,R20	10k	R0805
1	S1	B3F-3100	B3F-31XX
1	U\$2	282837-6	282837-6
1	X4	MSTBA4	MSTBA4
1		0.1" 18x2 pin	
8		0.1" 2x3 pin	
5		0.1" 8x1 pin	
2		0.1" 6x1 pin	
6		0.1" 4x1 pin	
2		0.1" 24x1 female	
4		0.1" 8x1 female	
15		0.1" 2 pin jumper	

MEGA Conn.



RAMPS 1.4 (RepRap Arduino Mega Pololu Shield)

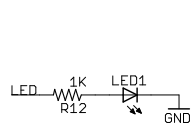
reprap.org/wiki/RAMPS1.4

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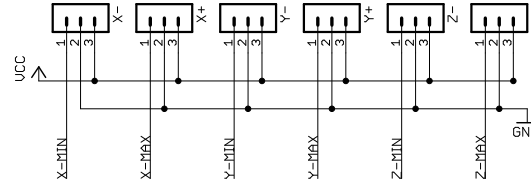
UltiMachine

GPL v3

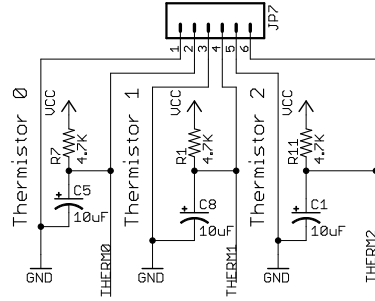
LED



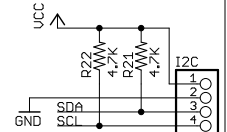
Endstops



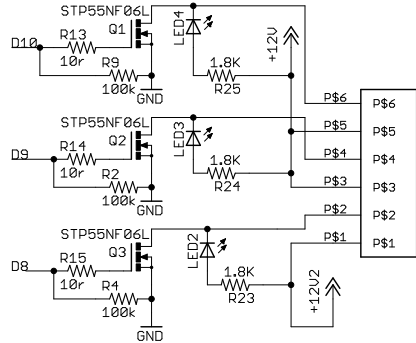
Thermistors



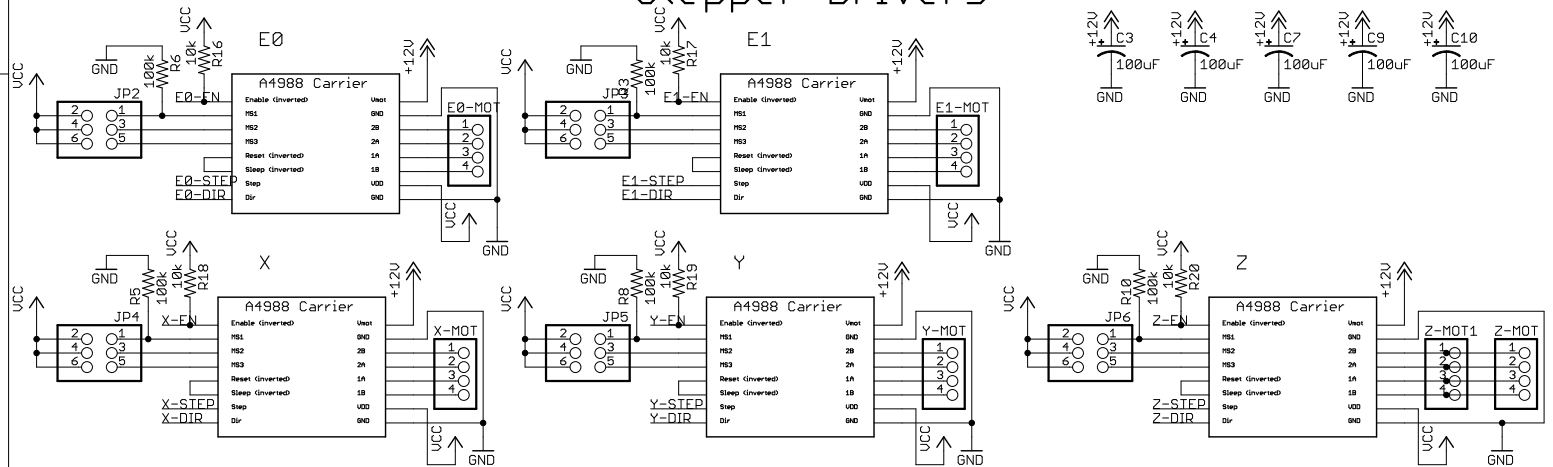
I2C



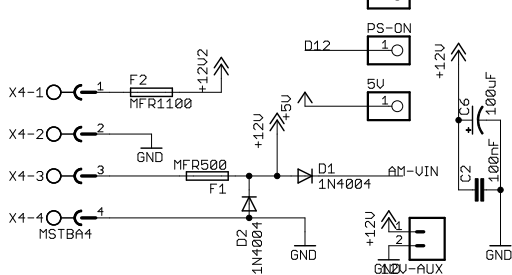
Heaters & Fans



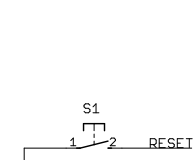
Stepper Drivers



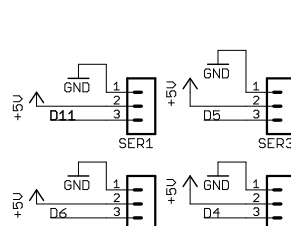
Power



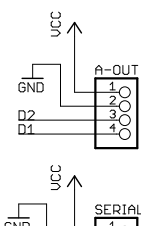
Reset



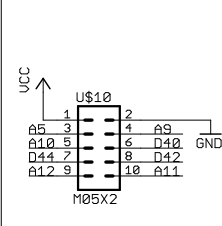
Servos



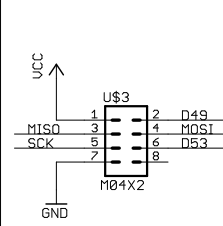
AUX-1



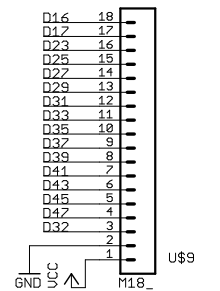
AUX-2



AUX-3



AUX-4



RAMPS 1.4 (RepRap Arduino MEGA Pololu Shield)

GPL v3

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