

This is the Series 1 (2013) Bill of Materials and was last updated in late				
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Item Name	Quantity	Units	Possible Supplier	Part Number
M4 10mm Button Head	2	Pack	McMaster-Carr	92095A190
M3 Low Head Socket Cap 16mm	1	piece	McMaster-Carr	92855A316*
7/8" Dowel	1	piece	(local)	
Tee Nut Insert for Wood M4 Internal	4	Pack	McMaster-Carr	98965A110
Knurled Nut	8	piece	JW Winco	unavailable
Experimental M4 hex head bolt (for new z adjuster)	1	piece	McMaster-Carr	91280A152
Ratchet Crimper (for spade terminals)	1	piece	McMaster-Carr	69555K62
40 mm Fan (comes with Ramps)	1	piece	Newark	23T0586
A4988 Stepper Motor Driver (comes with RAMPS)	5	Pack	Ulimachine	unavailable
Arduinio	1	piece	ubiquitous	unavailable
Power Switch	1	piece	Newark	60R5552
M4x50 button head	4	Pack	McMaster-Carr	92095A209
Dot Sticker - White	1	Pack	McMaster-Carr	15395T686
M4 Toothed Lock Washer	4	piece	McMaster-Carr	93925A250
Build Platform Thumb Nuts	8	piece	unknown	11508205
Music Wire .013 Diameter	0	Pack	McMaster-Carr	8907K95
Music Wire .012 Diameter	0	Pack	McMaster-Carr	8907k94
80 MM Fans	1	piece	unknown	
RAMPS	1	piece		
Insulated (ceramic core) screwdriver (comes with R/	1	piece		
Thermistor (comes with Ramps)	1	piece		
Brass nozzles (0.35mm aperture)	1	piece		
Threaded Brass Barrels	1	piece		
PEEK insulation (Groove Mount)	1	piece		
Ceramic heat core insulation (1/5 oz.)	1	other		
Large fiber glass insulation (1/2 inch)	1	piece		
Kapton/Polyamide tape (roll)	0.01	roll	McMaster-Carr	7648A36
Pinchwheels	1	piece		
Winchester Bearings	1	Pack	Boca Bearing	99MR103-ZZ-X10
Idler Pulley Bearings	6	Pack	Boca Bearing	99MF84-ZZ-X10
Cut to length cable tie, 500 ft roll	6	Pack	McMaster-Carr	14655T12
Small fiber glass insulation (1/4 inch)	1	inch		
y1 motor (NEMA 17 4-lead bipolar stepper driver)	1	piece		
lead screw nut	1	piece		
Aluminium 3/8" x 10" x 12" Levers and Back Clamps	0.025	sheet	McMaster-Carr	8975K131
PSU	1	Pack		
USB cable	1	piece		
Bearings 1m12uu	4	piece		
Bearings, 1m8uu	8	piece		
12mm x 13" smooth rod shaft	2	piece	VXB	kit1002
8mm x 330mm smooth rod shaft	4	piece	VXB	kit11868
Drive pulleys	3	piece	SDP-SI	A 6T16M021DF6005
Y Belt	2	Pack	SDP-SI	A 6Z16-365025
X belt	1	piece	SDP-SI	A 6Z16-397025
Idler pulleys	3	piece	SDP-SI	A 6M16-024DF25
z motor (NEMA 17 4-lead bipolar stepper driver)	1	piece		
y2 motor (NEMA 17 4-lead bipolar stepper driver)	1	piece		
X motor (NEMA 14 4-lead bipolar stepper driver)	1	piece		
Z-Motor + lead screw	1	piece		
E-Motor (NEMA 17 4-lead bipolar stepper driver)	1	piece		
Power Cable	1	piece	Newark	49C9150
Power resistors	1	piece	Newark	73M8369
Micro switches (become end-stops)	3	piece	Newark	24R7000
2.54 mm crimp connector	5	piece	Newark	08N6813
Molex microfit 3 - pin terminal plug 2POS	3	piece	Newark	95C2057
Molex microfit 3 - socket recepticle 2POS	3	piece	Newark	57H0284
2.54 mm crimps	10	piece	Newark	08N6834
Molex microfit 3 - pin terminal crimp	6	piece	Newark	56H9418
Molex microfit 3 - socket terminal crimp	6	piece	Newark	56H9412
1/4" regular acrylic(12 1/2 x 10 1/2")	1	sheet	TAP Plastic	000
1/4" clear acrylic (18x24" sheet)	0.05	sheet	TAP Plastic	
1/8th inch frosted acrylic (18x24" sheet) R+L electro	0.05	sheet	TAP Plastic	
5mm Plywood (8'x4' broad sheet, aka 48"x96")	0.75	sheet	(local)	
sheet metal for fan bracket mount	0.016	sheet	McMaster-Carr	89015K44
Aluminium .25" Lever Mount	0.033	sheet	McMaster-Carr	8975K115
1.5 MM Hex Key	1	piece	McMaster-Carr	7813A42
2 MM Hex Key	2	piece	McMaster-Carr	7813A43
2.5 MM Hex Key	1	piece	McMaster-Carr	7813A44
Zip ties	6	Pack	McMaster-Carr	7130K12
Cable Tie Holder Adhesive Backed, Four Way, for .19	6	Pack	McMaster-Carr	7566K25
Sprial wrap (feet)	3	foot	McMaster-Carr	7432K31
5/16" P-clip	1	Pack	McMaster-Carr	8876T17
3/8" P-clip	2	Pack	McMaster-Carr	8876T18
Black Adhesive Dome	4	Pack	McMaster-Carr	95495K313
Circlips for 12mm bearing	4	Pack	McMaster-Carr	98541A461
Circlips for 8mm bearing	8	Pack	McMaster-Carr	98541A410
winchester springs	1	Pack	McMaster-Carr	9271K651
spring for thumb screw/standoff	5	Pack	McMaster-Carr	9657K261

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M4 10mm Button Head	2	Pack	McMaster-Carr	92095A190
Brass jam nut (M6)	2	Pack	McMaster-Carr	93187A250
thumb screw	1	Pack	McMaster-Carr	96016A129
M4 nylock (AKA nylon insert nut)	14	Pack	McMaster-Carr	90576A103
M4Hex Nut, Metric Zinc-Plated Steel	1	Pack	McMaster-Carr	90591A141
M4 fender washer	10	Pack	McMaster-Carr	91090A101
m4 washer (standoffs)	8	Pack	McMaster-Carr	93475A230
M4x30 button head	3	Pack	McMaster-Carr	92095A198
M4x10 socket cap (socket head cap screw	4	Pack	McMaster-Carr	91292A116
M3 Nylon Hex Nut	3	Pack	McMaster-Carr	93800A116
Nylon spacer	4	Pack	McMaster-Carr	94639A201
M3x20 nylon screw	0	Pack	McMaster-Carr	94879A128
M3 Nylock (Nylon-Insert)	40	Pack	McMaster-Carr	90576A102
M3Hex Nut, Metric Zinc-Plated Steel	116	Pack	McMaster-Carr	90591A121
M3 spring washers	1	Pack	McMaster-Carr	92168A101
M3 washers	7	Pack	McMaster-Carr	93475A210
M3x25 button head	2	Pack	McMaster-Carr	92095A186
M3x20 button head	10	Pack	McMaster-Carr	92095A185
M3x16 socket headcap	2	Pack	McMaster-Carr	91292A115
M3x16 button head	2	Pack	McMaster-Carr	92095A184
M3x14 button head	25	Pack	McMaster-Carr	92095A168
M3x12 button head	128	Pack	McMaster-Carr	92095A183
M3x8 button head	20	Pack	McMaster-Carr	92095A181
M3 set screws	1	Pack	McMaster-Carr	91390A097
Ferrules	2	Pack	McMaster-Carr	9681K22
Spade terminals	7	Pack	McMaster-Carr	69145K68
Quick disconnect terminals	6	Pack	McMaster-Carr	7243k112
Thermistor insulation (clear plastic tubing)	0.5	foot	McMaster-Carr	5335K12
High-temp heat shrink	2	inch	McMaster-Carr	7564K691
Black heat shrink	0.25	roll	McMaster-Carr	7132K6
High temp wire, Green (feet)	0.5	foot	McMaster-Carr	7304K114
Green/Yellow (feet) AC PWR	0.41	foot	McMaster-Carr	7587K048
brown (feet) AC PWR	0.41	foot	McMaster-Carr	7587K058
Blue (feet) AC PWR	0.41	foot	McMaster-Carr	7587K79
Black (feet) DC PWR	4.3	foot	McMaster-Carr	7587K951
Red (feet) DC PWR	4.3	foot	McMaster-Carr	7587K952
Orange (feet)	8.6	foot	McMaster-Carr	7587K949
Yellow Z endstop	4.6	foot	McMaster-Carr	7587K923
Gray (feet) y endstop	4.4	foot	McMaster-Carr	7587K065
White (feet) x endstop	6.9	foot	McMaster-Carr	7587K924
Purple (feet) thermister	9.2	foot	McMaster-Carr	7587k075
Black (feet) cooling fan	4.3	foot	McMaster-Carr	7587K921
Red (feet) cooling fan	4.3	foot	McMaster-Carr	7587K922
Aluminum Stock Rod 8mm x 10mm, 6' heater blocks	0.016	piece	McMaster-Carr	8975K782
Aluminium 3/8" x 8" x 12" Back clamp	0.033	sheet	McMaster-Carr	8975K371
Aluminium .5" x 10" x 12" Front Clamp	0.033	sheet	McMaster-Carr	8975K107