

BOM Structure

BOM Name	Product Name	Quantity	BOM Ref
AO-101 3D Printer	[KT-PR0009] AO-101 3D Printer	1.000 PCE	
- Lower Vertex, Left	[PP-GP0040] Lower Vertex, Left	2.000 PCE	
- Lower Vertex, Right	[PP-GP0041] Lower Vertex, Right	2.000 PCE	
- Lower Vertex, Middle	[PP-GP0042] Lower Vertex, Middle	4.000 PCE	
- Z Upper Idler	[PP-GP0043] Z Upper Idler	2.000 PCE	
- Z Lower Motor Mount	[PP-GP0044] Z Lower Motor Mount	2.000 PCE	
- Y Rod Mount	[PP-GP0045] Y Rod Mount	2.000 PCE	
- Z Clamp	[PP-GP0046] Z Clamp	8.000 PCE	
- Belt Clamp	[PP-GP0050] Belt Clamp	4.000 PCE	
- 80/20 Size 20-2020 extrusion Cut to 380 mm long		4.000 PCE	
- 80/20 Size 20-2020 extrusion Cut to 385 mm long Tapped M5x0.8 bo		2.000 PCE	
- 80/20 Size 20-2020 extrusion Cut to 300 mm long Tapped M5x0.8 bo		4.000 PCE	
- 80/20 Size 20-2020 extrusion Cut to 265 mm long Tapped M5x0.8 bo		4.000 PCE	
- 80/20 Slide-In Economy TNut M5 Thread		84.000 PCE	
- Bed Plate	[PP-MP0042] Bed Plate	1.000 PCE	
- Y Axis Plate	[PP-MP0043] Y Axis Plate	1.000 PCE	
- NEMA 17 Stepper Motors	[EL-MT0001] NEMA 17 Stepper Motors	5.000 PCE	
- Female Connector Pins .1in Gold Terminals	[EL-MS0001] Female Connector Pins .1in Gold Terminals	28.000 PCE	
- 1x4-pin Connector Housing	[EL-MS0002] 1x4-pin Connector Housing	5.000 PCE	
- 608 Bearing	[HD-MS0013] 608 Bearing	9.000 PCE	
- Standoff, Aluminum for M5, OD 10mm, 30mm Long	[HD-MS0029] Standoff, Aluminum for M5, OD 10mm, 30mm Long	4.000 PCE	
- M8 Nyloc Nut, Zinc Plated	[HD-NT0002] M8 Nyloc Nut, Zinc Plated	3.000 PCE	
- M3 Washer, Steel, Zinc Plated	[HD-WA0001] M3 Washer, Steel, Zinc Plated	61.000 PCE	
- M5 Washer, Steel, Zinc Plated	[HD-WA0007] M5 Washer, Steel, Zinc Plated	84.000 PCE	
- M8 Washer, Steel, Zinc Plated	[HD-WA0006] M8 Washer, Steel, Zinc Plated	11.000 PCE	
- M3 x 10 Bolt, SHCS Black-oxide	[HD-BT0005] M3 x 10 Bolt, SHCS Black-oxide	28.000 PCE	
- M3 x 12 Bolt, SHCS Black-oxide	[HD-BT0013] M3 x 12 Bolt, SHCS Black-oxide	12.000 PCE	
- M5 x 10 Bolt, SHCS Black-oxide	[HD-BT0021] M5 x 10 Bolt, SHCS Black-oxide	80.000 PCE	
- M5 x 45 Bolt, BHCS, Plain Steel	[HD-BT0022] M5 x 45 Bolt, BHCS, Plain Steel	4.000 PCE	
- M8 x 35 Bolt, SHCS Black-oxide	[HD-BT0023] M8 x 35 Bolt, SHCS Black-oxide	1.000 PCE	
- Metric Press-Fit Plastic Thumb Screw Head Knurled, Black, Fits M		3.000 PCE	

BOM Name	Product Name	Quantity	BOM Ref
- Pillow Block Bushing		12.000 PCE	
- GT2, 36 Teeth, timing pulley	[HD-MS] GT2, 36 Teeth, timing pulley	2.000 PCE	
- AO X-axis Carriage Pillow	[PP-GP0053] AO X-axis Carriage Pillow	1.000 PCE	
- AO X-axis end Idler ACME	[PP-GP0054] AO X-axis end Idler ACME	1.000 PCE	
- AO X-axis end motor mount ACME	[PP-GP0055] AO X-axis end motor mount ACME	1.000 PCE	
- AO X-axis end clamp ACME	[PP-GP0056] AO X-axis end clamp ACME	2.000 PCE	
- GT2 1164mm by 6mm belt	[HD-] GT2 1164mm by 6mm belt	2.000 PCE	
- Brass General Purpose Acme Hex Nut, Right-Hand, 3/8"-12 Acme Siz	[HD-] Brass General Purpose Acme Hex Nut, Right-Hand, 3/8"-12 Acme Size	2.000 PCE	
- M8 x 30 Bolt, SHCS Black-oxide	[HD-BT0011] M8 x 30 Bolt, SHCS Black-oxide	1.000 PCE	
- M4 Washer, Steel, Zinc Plated	[HD-WA0005] M4 Washer, Steel, Zinc Plated	13.000 PCE	
- Aleph_cable_strain_relief	[PP-GP0075] Aleph_cable_strain_relief	1.000 PCE	
- PCB Heatbed MK1	[PC-BD0001] PCB Heatbed MK1	1.000 PCE	
- 100k Honeywell Axial Thermistor	[EL-TH0001] 100k Honeywell Axial Thermistor	1.000 PCE	
- Binder Clips	[HD-MS0007] Binder Clips	4.000 PCE	
- Heat Bed Comp Spring - Music Wire	[HD-MS0028] Heat Bed Comp Spring - Music Wire	4.000 PCE	
- Aleph_electronics_enclosure	[PP-GP0076] Aleph_electronics_enclosure	1.000 PCE	
- Wade Reloaded Extruder Block	[PP-GP0058] Wade Reloaded Extruder Block	1.000 PCE	
- Wade Reloaded Idler Block	[PP-GP0059] Wade Reloaded Idler Block	1.000 PCE	
- Wade Reloaded Bearing Washer	[PP-GP0060] Wade Reloaded Bearing Washer	1.000 PCE	
- Reloaded herringbone large gear	[PP-GP0061] Reloaded herringbone large gear	1.000 PCE	
- Reloaded herringbone small gear	[PP-GP0062] Reloaded herringbone small gear	1.000 PCE	
- 8mm Smooth Rod x 20mm, Stainless Steel	[HD-RD0004] 8mm Smooth Rod x 20mm, Stainless Steel	1.000 PCE	
- Aleph_electronics_lid	[PP-GP0077] Aleph_electronics_lid	1.000 PCE	
- Metric 18-8 SS Large-Diameter Flat Washer M4 Screw Size, 12mm OD		2.000 PCE	
- M3 Set Screw (Grub Screw)	[HD-BT0012] M3 Set Screw (Grub Screw)	1.000 PCE	
- AO Endstop Holder	[PP-GP0026] AO Endstop Holder	2.000 PCE	
- Wire Clip	[PP-GP0063] Wire Clip	4.000 PCE	
- Assy, Power Supply 12V, 16A with 4Pin DIN and Power Cord	[EL-PS0005] Assy, Power Supply 12V, 16A with 4Pin DIN and Power Cord	1.000 PCE	
- Cable, Ribbon, 8 cond		0.330 ft	
- Label, Lulzbot AO-101 Barcode label		1.000 PCE	
- feed_tube_spinner	[PP-GP0074] feed_tube_spinner	1.000 PCE	

BOM Name	Product Name	Quantity	BOM Ref
- ACME Z-axis Coupling	[PP-GP0057] ACME Z-axis Coupling	2.000 PCE	
- M5 Nut, Steel, Zinc Plated	[HD-NT0012] M5 Nut, Steel, Zinc Plated	18.000 PCE	
- M5 Nyloc Nut, Zinc Plated	[HD-NT0015] M5 Nyloc Nut, Zinc Plated	5.000 PCE	
- M3 x 16 Bolt, SHCS Black-oxide	[HD-BT0006] M3 x 16 Bolt, SHCS Black-oxide	14.000 PCE	
- M4 Nut, Steel, Zinc Plated	[HD-NT0011] M4 Nut, Steel, Zinc Plated	9.000 PCE	
- 1x2-pin Connector Housing	[EL-MS0004] 1x2-pin Connector Housing	4.000 PCE	
- Back Arm	[PP-GP0069] Back Arm	3.000 PCE	
- Front Arm	[PP-GP0070] Front Arm	3.000 PCE	
- Hub	[PP-GP0068] Hub	1.000 PCE	
- Metric 8.8 Zinc-Pltd Steel Hex Head Cap Screw M4 Size, 20mm Leng		9.000 PCE	
- M4 Wing Nut, Steel, Zinc Plated	[HD-NT0007] M4 Wing Nut, Steel, Zinc Plated	3.000 PCE	
- Metric Zinc-Plated Class 5 Steel Wing Nut M8 Screw Size, 1.25mm		1.000 PCE	
- SDRAMPS Assembled	[PC-KT0007] SDRAMPS Assembled	1.000 PCE	
- Z Axis Shipping Clamp	[PP-GP0066] Z Axis Shipping Clamp	4.000 PCE	
- AO-101 User Manual		1.000 PCE	
- 6ft USB 2.0 A Male to B Male 28/24AWG Cable - (Gold Plated)	[EL-CA0001] 6ft USB 2.0 A Male to B Male 28/24AWG Cable - (Gold Plated)	1.000 PCE	
- Kingston 4 GB microSDHC Class 4 Flash Memory Card SDC4/4GBET	[EL-] Kingston 4 GB microSDHC Class 4 Flash Memory Card SDC4/4GBET	1.000 PCE	
- 22 x 27" #80 Instapak Quick® Room Temperature Bulk Packs		4.000 PCE	
- 18 x 24" #40 Instapak Quick® Room Temperature Bulk Packs		2.000 PCE	
- 8mm Smooth Rod, Stainless Steel, 410mm	[HD-RD0013] 8mm Smooth Rod, Stainless Steel, 410mm	2.000 PCE	
- 8mm Smooth Rod, Stainless Steel, 375mm	[HD-RD0012] 8mm Smooth Rod, Stainless Steel, 375mm	2.000 PCE	
- 8mm Smooth Rod, Stainless Steel, 310mm	[HD-RD0014] 8mm Smooth Rod, Stainless Steel, 310mm	2.000 PCE	
- 3/8-12 ACME Threaded Rod, 303 Stainless Steel, 285mm	[HD-RD0015] 3/8-12 ACME Threaded Rod, 303 Stainless Steel, 285mm	2.000 PCE	
- Metric Class 12.9 Socket Head Cap Screw M4 Thread, 55mm Length,		2.000 PCE	
- Top Vertex, Mini 45 Spool	[PP-GP0067] Top Vertex, Mini 45 Spool	1.000 PCE	
- Metric Zinc-Plated Steel Nylon-Insert Locknut Class 8, M4 Sz, .7		1.000 PCE	
- Wire - Single Conductor 16AWG Purple, 100'	[EL-] Wire - Single Conductor 16AWG Purple, 100'	3.100 ft	
- Wire - Single Conductor 24 AWG Yellow, 100'	[EL-] Wire - Single Conductor 24 AWG Yellow, 100'	3.700 ft	
- Wire Ferrules 22-20 AWG, Packs of 100	[EL-MS0012] Wire Ferrules 22-20 AWG, Packs of 100	2.000 PCE	
- Standard Nylon Cable Tie 5-3/4" L, 1-3/8" Bundle Dia, 40# Tensil		5.000 PCE	

BOM Name	Product Name	Quantity	BOM Ref
- 18" FLR ORANGE CABLE TIES 500/PK		2.000 PCE	
- Spring, Extruder, 6mm OD, 0.8mm WD, 9.7mm FL	[HD-MS0001] Spring, Extruder, 6mm OD, 0.8mm WD, 9.7mm FL	2.000 PCE	
- Wire - Two Conductor 24 AWG Red and Black, 1'	[EL-] Wire - Two Conductor 24 AWG Red and Black, 1'	4.540 ft	
- Wire Wrap, 1/4", 100' Length	[EL-MS0009] Wire Wrap, 1/4", 100' Length	250.000 cm	
- Feed Tube, PTFE, 1' Length	[HD-TB0007] Feed Tube, PTFE, 1' Length	40.000 cm	
- 22x22x18 275# DW brown rsc inside glue?		1.000 PCE	
- 48" x 500' 4 Mil Anti-Static Poly Sheeting Roll	[EL-] 48" x 500' 4 Mil Anti-Static Poly Sheeting Roll	6.000 ft	
- AO-101 Printer Documentation		1.000 PCE	
- AO-101 Unpacking Instructions		1.000 PCE	
- Y-Idler-tensioner	[PP-GP0072] Y-Idler-tensioner	1.000 PCE	
- Y-Idler-mount	[PP-GP0073] Y-Idler-mount	1.000 PCE	
- M5 x 16 Bolt, BHCS Black-oxide	[HD-BT0027] M5 x 16 Bolt, BHCS Black-oxide	7.000 PCE	
- Top Vertex, Mini 45	[PP-GP0049] Top Vertex, Mini 45	3.000 PCE	
- M5 x 14 Bolt, SHCS Black-oxide	[HD-BT0026] M5 x 14 Bolt, SHCS Black-oxide	28.000 PCE	
- M4 x 20 Bolt, SHCS Black-oxide	[HD-BT0010] M4 x 20 Bolt, SHCS Black-oxide	4.000 PCE	
- M3 Nut, Steel, Zinc Plated	[HD-NT0004] M3 Nut, Steel, Zinc Plated	5.000 PCE	
- M3 Nyloc Nut, Zinc Plated	[HD-NT0001] M3 Nyloc Nut, Zinc Plated	38.000 PCE	
- M3 x 20 Bolt, SHCS Black-oxide	[HD-BT0007] M3 x 20 Bolt, SHCS Black-oxide	14.000 PCE	
- Steel Flat Washer, DIN 125 zinc-plated class 4,M2 screw sz, 5mm		6.000 PCE	
- Metric Zinc-Plated Hex Nut, class 6, M2 screw size, .4mm pitch,		6.000 PCE	
- Metric Class 12.9 Socket Head Cap Screw Alloy Steel, M2 Thread,		6.000 PCE	
- nub	[PP-GP0078] nub	1.000 PCE	
- M3 x 5 Bolt, SHCS Black-oxide	[HD-BT0020] M3 x 5 Bolt, SHCS Black-oxide	4.000 PCE	
- Metric Brass Heat-Set Insert for Plastics Tapered, M3-.5 Interna		20.000 PCE	
- Kapton Tape, 20mm Wide, roll	[HD-MS0006] Kapton Tape, 20mm Wide, roll	0.830 ft	
- Wire, Yellow, 16AWG Stranded		1.500 ft	
- Wire, Red, 16AWG Stranded		1.500 ft	
- Hobbed Bolt	[HD-BT0002] Hobbed Bolt	1.000 PCE	

BOM Name	Product Name	Quantity	BOM Ref
- Metric Spring Steel Shim - DIN 988 0.5mm Thick, 8mm ID, 14mm OD		1.000 PCE	
- Metric Spring Steel Shim - DIN 988 1.0mm Thick, 8mm ID, 14mm OD		1.000 PCE	
- Standard Nylon Cable Tie 8" L, 2-3/8" Bundle Dia, 40#Tensile Str		2.000 PCE	
- Pet Tape, 12"x12" sheet, green		2.000 PCE	
- Connector, 4 pin DIN Power		1.000 PCE	
- Connector, 8 pin ribbon		2.000 PCE	
- Conn, Crimp, .250, 14-16AWG		4.000 PCE	
- Fan, 12VDC		1.000 PCE	
- Switch, 24V, 20A		1.000 PCE	
- Metric Class 12.9 Socket Head Cap Screw Alloy Steel, M8 Thread,		1.000 PCE	
- Metric Press-Fit Plastic Thumb Screw Head, Knurled, Black, Fits		1.000 PCE	
- Spring, 7.5mm OD, 1.24mm WD, 17mm FL	[HD-MS] Spring, 7.5mm OD, 1.24mm WD, 17mm FL	2.000 PCE	
- AO-101 Tool Kit		1.000 PCE	
- Y Motor Mount, AO-101	[PP-GP0080] Y Motor Mount, AO-101	1.000 PCE	
- Borosilicate Glass Bed 200x214mm x 1/8" Thick	[HD-MS0002] Borosilicate Glass Bed 200x214mm x 1/8" Thick	1.000 PCE	
- Budaschnozzle 1.2a, .5mm Nozzle, Wired for Assembly		1.000 PCE	
- RAMBo		1.000 PCE	
- feed_tube_support	[PP-GP0071] feed_tube_support	1.000 PCE	
- Z_stop_holder	[PP-GP0079] Z_stop_holder	1.000 PCE	
- Poron Strip, long		1.000 PCE	