

QUALITY ASSURANCE RECORD

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Mode	el: LulzBot M	ini 1.0 3	D Printer			Page 1
Serial Number: Date Completed: Tested by:						
Config	ruration:					
	Electronics: Firmware: Nozzle: Settings:	Marlin 1	AMBo 1.0a for Mini 2014-Q4 diameter nozzle			
	Stepper I	Motor	Steps/mm	Max Length	Microstep Mode	Digipot
	X		100.5	155	16	175
	Υ		100.5	155	16	175
	Z		1600	155	16	220
	EO		833	NA	16	135
	Is the Spool Mount properly mounted so it flips up and sits securely? Is the Finger Clip properly mounted with the taller side on the left? Are the switches tight? They shouldn't wiggle side to side. Are all 4 rubber feet installed? Is the PEI tape free of bubbles and wrinkles? Is the heat bed adhesive smooth and consistent with no finger prints?					
Y Axis:						
	Is the belt moderate Is the Y bed to the Y bed to Are all the scribes Is the Y pulley Is one of the State both pulled Is the level of Is the Y belt to Are the four the State Is the Y belt to Are the four the Is the Y belt to Is	ounted in ght side to ght side the rub the trub the Y pullight?	ews tightened?	ation? In and twisting? Itight? Idler by the bearing Itighed with the flatight as where the	t on the motor shaft? belt mounts on the belt	holder?





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X Axis:	
	Is the X pulley tight? Is one of the set screws on the X pulley aligned with the flat on the motor shaft? Are both pulley set screws tightened? Is the belt mounted in the correct orientation? Is the belt free from rubbing anywhere during motion? Is the X belt tight? Does the X axis move freely end to end? Are the X bars flush with the right side? Are the set screws that hold the X bars tight? Are the belts trimmed far enough to not interfere with the pulley or bearing?
Z Axis:	
	Do the Z drive rods rotate smoothly with no up and down movement between the bearings? Are the set screws that hold the Z bars tight? Are the coupler set screws tight? Are the drive rods and motor shafts aligned so the couplers are not bent?
Extrud	er:
	Can you adjust the extruder springs? Are the V grooves on the extruder gears lined up? Is the extruder mount secure on the X carriage? Is the extrusion fan mounted correctly? Is the extruder blower mounted correctly? Does the idler bearing stick out of the idler block? Is the hobbing aligned to the hole in the extruder? Is the set screw in the small gear tight and on the flat of the motor shaft? Can you feed filament about 100mm from the top of the extruder? Are the gears tight with no back-lash? Do the extruder gears turn smoothly for several rotations?
Electro	onics:
	Are all connections to the Mini-Rambo plugged in correctly? Can you plug in USB cable from the outside of the enclosure? Is the case fan plugged in? Are all cables free from contacting any moving parts?





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Test and Verification Results:

ш	verify case fan is running.
	Verify extruder blower is running.
	Verify control of the extrusion fan.
	Nozzle temperature control verified.
	Nozzle re-tightened during first heat cycle.
	Extruder control verified.
	X, Y, and Z min and max stop switches verified.
	X and Y homing are making contact with bed leveling washer
	Bed leveling is functioning properly.
	Bed temperature control verified.
	Bearing conditioning complete.
	X, Y, and Z motion smooth over full range and speeds.
	Test print (Rocktopus*) successful.
	Print head moved to shipping position.

^{*}Rocktopus by Kent Johnson is licensed under CC BY-SA 4.0 and derived from work by dietz1 and yeoldebrian - lulzbot.com/rocktopus

