

Manufacturer:	Aleph Objects Inc	;		Project Number:	B40815
Customer Representative:	Seth Sinnema			Test Area:	GP 2
Model:	KT-PR0016			S/N:	KT-PR0016-6616
Standard Referenced:	EN55024: 2010			Date:	August 19, 2014
Temperature:	24.9°C	Humidity:	61%	Pressure:	835mb
Input Voltage:	230VAC 50Hz			_	
Configuration of Unit:	Drinting test good	a fila off SD a	ord	_	

Test Engineer: Mark Novak

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Test Location	Voltage Level (kV)	Pola	rity -	Number of Pulses	Pulses Per Second	Comments	Criteria Met	Pass / Fail
					Indirect Dis	charge Points		
VCP	2, 4	X	X	10	1	Front Side -4kv rebooted Repeatable	C*	Pass
VCP	2, 4	X	X	10	1	Left Side -2kv caused unit to reboot Could not repeat	C*	Pass
VCP	2, 4	Х	Х	10	1	Right Side +4kv froze LED not repeatable	C*	Pass
VCP	2, 4	х	X	10	1	Back Side	A	Pass
НСР	2, 4	X	Х	10	1	Edge of HCP at Front of UUT -2kv needed a full reboot. Second time, it stopped but rebooted itself.	C*	Pass
				Contact	Discharge I	Points - RED Arrows.		
Figure #2	2, 4	X	X	10	1	No consistencies in failures. Sometimes positive and sometimes negative. About 80% of test points cause unit to reboot itself OR needs operator intervention. This is true for all test points indicated on all pictures.	C*	Pass
Figure #3	2, 4	х	X	10	1		C*	Pass
Figure #4	2, 4	Х	X	10	1		C*	Pass
Figure #5	2, 4	X	X	10	1		C*	Pass
Figure #6	2, 4	Х	X	10	1		C*	Pass
Figure #7	2, 4	х	X	10	1		C*	Pass
Figure #8						No Discharge points found		
Figure #9						No Discharge points found		
				Air Di	scharge Poi	nts - BLUE Arrows.		
Figure #2	2, 4, 8	X	X	10	1	At all voltages made the LCD brighter	C*	B*



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Temperature:	24.9°C	Humidity:	61%	Pressure:	835mb
Input Voltage:	230VAC 50Hz			_	
Configuration of Unit:	Printing test gcode file off SD card			_	
Test Engineer:	Mark Novak				_

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Test Location	Voltage Level (kV)	Pola	arity -	Number of Pulses	Pulses Per Second	Comments	Criteria Met	Pass / Fail
						where tip touched LCD		
Figure #3						No Discharge points found		
Figure #4	2, 4, 8	x	X	10	1		C*	Pass
Figure #5						No Discharge points found		
Figure #6						No Discharge points found		
Figure #7						No Discharge points found		
Figure #8	2, 4, 8	х	Х	10	1		C*	Pass
Figure #9	2, 4, 8	X	х	10	1		C*	Pass



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Figure A1. Electrostatic Discharge Test Setup.



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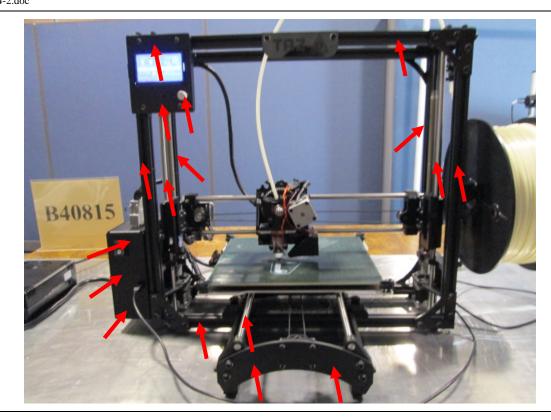


Figure A2. Electrostatic Discharge Test Setup.



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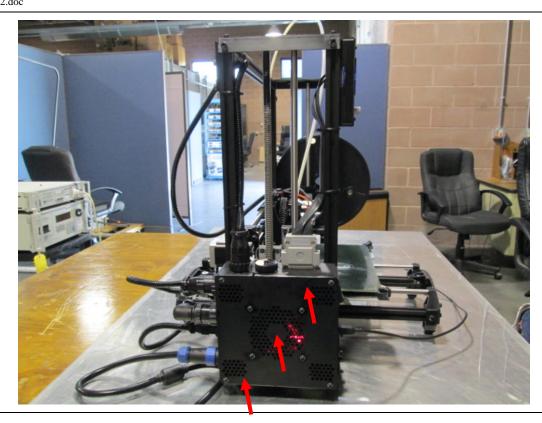


Figure A3. Electrostatic Discharge Test Setup.



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 Standard Referenced:
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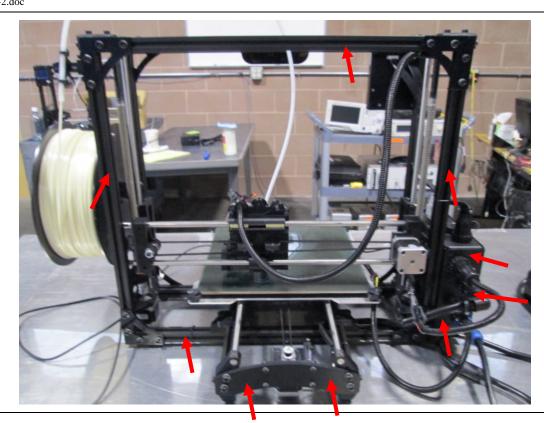


Figure A4. Electrostatic Discharge Test Setup.



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Figure A5. Electrostatic Discharge Test Setup.



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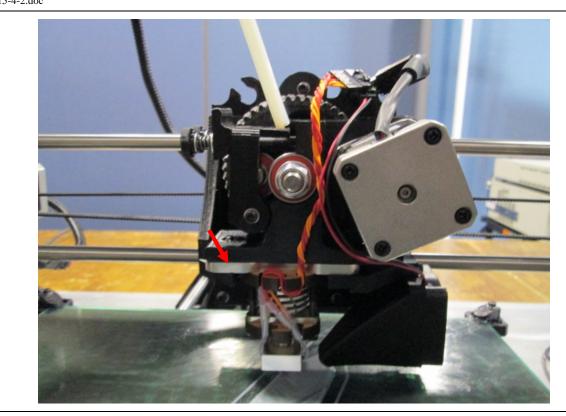


Figure A6. Electrostatic Discharge Test Setup.



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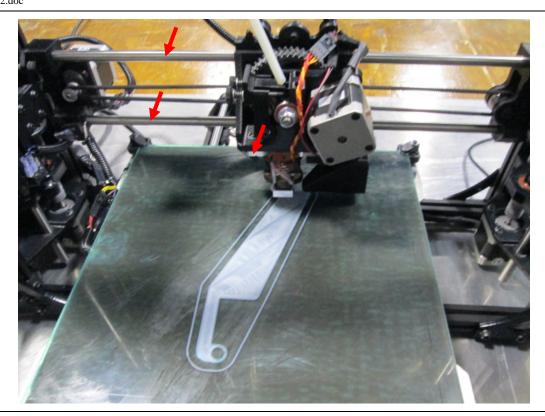


Figure A7. Electrostatic Discharge Test Setup.



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Figure A8. Electrostatic Discharge Test Setup.



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Figure A9. Electrostatic Discharge Test Setup.



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Test Equipment List

ID Number	Manufacturer	Model #	Serial #	Description	Cal Date	Cal Due
1333	EMC Partner	ESD3000	395	ESD Test System	03/06/2014	03/06/2015
1536	Extech Instruments	445715	Z315811	Hygro-Thermometer	03/21/2014	03/21/2015
1550	California Instruments/A metek	1251P	1423A05346	AC Power Supply	NA	NA