Test procedure

ROM_PS 1.x

1) Carefully inspect the module, looking for any wrong components, backward components, bad solder connections, shorts, etc.
2) Verify isolation washers and heat sink pads on Q2, Q7, Q8
3) Install the test switch in the OFF position. Set all trimpots to halfway position.
4) Insert PCB into text fixture. Connect the transformer correctly.
5) Starting at 0V, turn on variac, and slowly bring up and test voltages listed below:

name	Test point	Ground	~**20**% V	~**50**% V	~**100**% V
Vdd (+8 V)	LEFT R33	**LEFT R41**	+1.2 V	x	+8.0 V
Vdd RAW	LEFT D24	LEFT R41	+2 V	x	+15.0 V
B1- (-22 V)	RIGHT R40	**RIGHT R41**	-4.4 V	-10 to -14 V	Adjust **R39** for -22.0 V
B1- RAW	LEFT D30	RIGHT R41	-5.4 V	x	-32 V
B1+ (400 V)	TOP R20	**RIGHT R2**	+96 V	+100 to +300 V	Adjust **R17** for +330 V
B1+ RAW	LEFT R3	RIGHT R2	+102 V	x	+500 V
B1+ RAW 2	RIGHT R3	RIGHT R2	x	x	+250 V
B2+ (230 V)	RIGHT D16	RIGHT R2	+ 64 V	x	+230 V
B2+ RAW	LEFT D4	RIGHT R2	+68 V	x	+350 V
B2- (-100 V)	LEFT D23	RIGHT R2	-20 V	x	~ -100 V
B2- RAW	RIGHT D20	RIGHT R2	-34 V	x	-175 V

6) After ensuring all these voltages came up okay, press the switch in, activating. Listen for delayed turn on of relays (adjust relay if needed). Then check these voltages @ 100%

name	test point	Ground	~**100**% V
B1+ (400 V)	TOP R20	RIGHT R2	Adjust **R21** for +400 V
Fil+	U2 case	RIGHT D36	+6.3 V
Fil+ RAW	LEFT D34	RIGHT D36	+10.3 V

7) Insert draining plug, wait for voltages to drain. Sign PCB and remove the switch safely. End procedure as all voltages are drained to safe levels.