

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 test 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.