Check-Out Sequence, AV-156G-B Modification

	Test step	Control	Setting or expected results
1.	Identification	Model:	AV-156G-B
		Serial Number:	
		Client:	
		Date:	
2.	Check PA04		Confirm with Fluke 75 that resistance between pins 4 and
	orientation		5 of the PA04 is 100 k Ω . If higher, the PA04 may be
			installed incorrectly.
3.	Disconnect DC	PG:	Slide off PG card edge connector, and un-solder white and
0.	Disconine of De	'0.	black PG power lines.
		DC fuse:	Remove DC fuse.
4.	Rear panel set-up	120/240:	120V
		Line fuse:	1.5A
		DC fuse:	2.0A
5.	R _{oL}	R _{oL} :	5.1 kΩ
6.	R _{MON}	PCB 116:	Change R3 on PCB 116 from 1k to 2k.
		PCB 142:	Change 0.47/2 to 0.47/4 on PCB 142B.
7.	R _{SENSE}	PCB 142:	Change 0.33/4 to 0.33/8 on PCB 142B.
8.	Bring to life	I ₆₀ :	record current here: (expect 420 mA)
		V _{TPS} :	(expect +24V)
			If power-up is OK, power down and install Z2B.
			Program memory as a 156G.
			Run timing calibration sequence.
9.	Re-install parts	DC fuse:	Turn off power. Install DC fuse. Apply power.
		Cap bank:	V _{CAPBANK} = (expect +24V)
		PG: I ₆₀ :	Turn off power. Install PG card-edge conn. Apply power. record current here: (expect 430 mA)
		160.	, , ,
10.	Test with Lab PS		Turn off power.
			Connect PG HV+ to Lab PS, off, set to +24V.
			Connect PG HV- to Lab PS, off, set to -15V.
			Turn on 156G AC power. Turn on lab PS. Confirm Lab PS +/- current is < 100 mA.
11	De consert DO		Danier AO and Lab DO annua Diagram Ad ab DO
11.	Re-connect DC		Remove AC and Lab PS power. Disconnect Lab PS.
	power.	I ₆₀ :	Re-solder white and black PG power lines. record current here: (expect 460 mA)
		160.	record current here. (expect 400 mA)
12.	Tweak V _{TPS} .		Disconnect AC power cord. Rotate TPS80 adjust trimpot
			$1/8$ turn clockwise. Turn power on and measure V_{TPS} .
			Repeat until V _{TPS} = 26V.
13.	Calibration		Turn off, then back on.
			Add temporary jumper across 95SQ015 diode.
			Quick-test of main output. 10 Hz, 100 us, 10A,
			1.0 and 1.5 Ohms. Adjust ampl-dependent OS trimpot, R37.
			Aujust ampruepenuent OS tilmpot, RS1.
			Adjust ampl-independent OS trimpot, R34.
			Adjust Zout trimpots, relying on the monitor BNC output to

		judge when Zout is nulled. Perform at:
		100 mA (1 to 80 Ohms), adjust R31
		and
		10 A (0 and 1 Ohms), adjust R28
		Calibrate all amplitude points, in both ranges.
		Calibrate all OS points, in both ranges.
	-	Null out remaining offset, in software.
	T	Remove 95SQ015 jumper
		Calibrate monitor on BNC, then on LCD.
		100 Hz, 10 us, 10-100 mA to 2.5 Ohms.
		Confirm PW is approx 10 us +/- 0.3 us.
		100 Hz, 300 us, 100 mA to 80 Ohms.
		Check t _R , t _F .
14.	Seal up	To Dave to seal 2901
15.	GPIB Cal	To MJC to complete -B calibration check-sheet.
16.	Chassis Photo	