

## ICs voltage measurement :

All measurements are done with power on, video source on input (here a completely white image is used), monitor at the output. All controlboard switches are down, all potentiometers up, nothing in CV inputs. The values are indicative, you'll probably have different values, but if you have one or some values that are way off, it might help narrowing down an issue on the board :

(Those measurements are made in NTSC, but should be about the same in PAL, only change is U9 pin 20, which is not grounded in PAL, about 4.5V)

### Mainboard :

	U1	U2	U3	U4	U5	U6	U7	U8	U9
Pin 1	-0.7V	9.44V	0.64V	0.71V	0.71V	8.31V	0V	7.76V	2.89V
Pin 2	0V	2.1V	9.96V	0.71V	0.67V	0V	0V	0V	5.15V
Pin 3	0V	11.46V	11.67V	11.67V	0.66V	8.3V	0V	9.14V	3.26V
Pin 4	-11.9V	0V	1.29V	3.26V	0.64V	8.3V	0V	9.15V	3.34V
Pin 5	0V	10.7V	2.56V	2.56V	9.21V	0V	8.4V	7.77V	3.36V
Pin 6	0V	1.22V	3.83V	3.1V	0V	0V	0V	0V	4.85V
Pin 7	2.1V	5.8V	2.56V	2.56V	8.25V	0V	0V	0V	6.55V
Pin 8	11.67V	11.67V	3.64V	2.9V	0V	0V	0V	0V	2.42V
Pin 9			2.56V	2.56V	0V	0V	0V	8.98V	4.24V
Pin 10			3.46V	2.71V	8.94V	0V	0V	9.48V	3.97V
Pin 11			2.56V	2.56V	8.94V	0V	1.3V	0.98V	4.09V
Pin 12			0V	0V	8.9V	0V	11.67V	8.51V	4.3V
Pin 13			0.66V	8.95V	0.71V	0V	11.67V	7.78V	9.52V
Pin 14			0.66V	8.9V	8.29V	0V	1.14V	11.67V	11.67V
Pin 15					0.97V	8.37V	1.1V		0V
Pin 16					11.67V	11.67V	11.67V		8.26V
Pin 17									5.3V
Pin 18									4.69V
Pin 19									6.43V
Pin 20									0V

### Controlboard :

	U1	U2	U3	U4	U5
Pin 1	-0.06V	-0.06V	-0.06V	2.71V	3.82V
Pin 2	0V	0V	0V	0V	0V
Pin 3	0V	0V	0V	0V	0V
Pin 4	-11.9V	-11.9V	-11.9V	-11.9V	-11.9V
Pin 5	1.65V	1.62V	1.65V	0V	0V
Pin 6	1.66V	1.63V	1.66V	0V	0V
Pin 7	1.66V	1.63V	1.66V	-2.77V	-3.89V
Pin 8	11.67V	11.67V	11.67V	11.67V	11.67V

