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MICPS Test guide

Follow the testing procedure in the shown order. If one test fails, find out the problem, correct it then resume.

Always unplug power between steps because it is very easy to create a shortcut when moving a DMM probe. And most of the time, shortcuts are fatal to the circuits.

Step		Description
1.	Test setup	Remove the MICPS top cover. Do not connect the microphone yet.
	Power on	Turn on power and check that the green LED lights up.
	12V check	Connect your DMM between 0V and the top pin of the filter switch SW2. Check that you get a positive voltage near 12V.
2.	High voltage check	Set your DMM to DC Volts on a 200 V scale and connect it between 0V and B+. Use test hooks and be careful not to create shortcuts. Check that you get a positive voltage between 80V and 190V. Adjust the trimmer TR1 do get around 140V. We will adjust this more precisely when the mic will be connected.
3.	Heater voltage check	Connect your DMM between 0V and H+. Check that you get a positive voltage between 11 and 12V.
4.	Setup with mic connected	Plug off power. Connect the microphone to the unit with the supplied XLR7 cable. Set your DMM to DC Volts on a 200 V scale and connect it between 0V and B+. Power on. Wait until the mic tube warms up and start conducting. The B+ voltage will come down. Wait until it stabilises and adjust the trimmer to get exactly 120V.
5.	Heater voltage check 2	Connect your DMM between 0V and H+. Check that you get a voltage of around 5.7V.
6.	Congratulations	You're done!