



MP 512 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 DOA. Remove the DI board if present and place a jumper on JMP1.
2. Board installation	Plug the MP512 into your 500 connector Extender, if you own one or... Remove all other modules from you 500 rack or Lunchbox and insert the MP512 in the leftmost slot.
3. Positive rail check	Set your DMM to DC Volts on a 30 V scale and connect it between GND and V+. Use test hooks and be careful not to create shortcuts. Check that you get a positive voltage around +16V.
4. Negative rail check	Connect your DMM between GND and V-. Check that you get a negative voltage around -16V.
5. Voltage setup with charge	Plug off power. Insert the DOA. Plug in power. Check both voltages again.
6. DOA output voltage check	Set your DMM to DC volts and connect it between OV and TP2 (A1 output). Plug in power and check that the DC voltage is near 0 volt. It may take a few minutes to warm up and stabilize at less than 100 mV from 0. Plug off power.
7. Sound check	Plug in a dynamic microphone to the input XLR. Connect the output to your monitoring system. It can be a headphone amplifier or it can go through one of your ADC inputs if you run a software studio. Set gain switch to Mid, gain knob to minimum, output pad potentiometer to maximum, 48V to Off. Plug in power. Slowly turning up the gain knob, check that your micpre is working. Check the 3 switch gain positions, the phase switch, the pad knob. Make the same test with a static microphone, with the 48V switch set to On. Plug off power. Set the 48V switch to Off.
8. DI check	Remove the jumper JMP1 and install the DI board. Insert an instrument jack into the front panel jack socket. Plug in power. You should hear your instrument when playing.
9. Clip LED check	Check that the LED flashes in green when a signal is present and turns red when the gain gets too high.



Step		Description
10.	Congratulations	You're done !