



## Stereo Tape Simulator, setup 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.	Short circuit check	<p>Do a basic short circuit check with your digital multimeter (DMM) set to Ohms :</p> <ul style="list-style-type: none"> <li>• Between Test point <b>OV</b> and <b>V+</b>.</li> <li>• Between Test point <b>OV</b> and <b>V-</b>.</li> </ul> <p>In both cases you should get several kilo-Ohms. If it is not the case, find out and fix the short before applying power.</p>
2.	PSU check	<p>Set your DMM to DC Volts on a 20 V scale and connect it between test points <b>OV</b> and <b>V+</b>.</p> <p>Plug in power. Check that you get +15V.</p> <p>Repeat operation between test points <b>OV</b> and <b>V-</b>, you must get -15V.</p>
3.	Sound check	<p>Insert the STS between the output of a line level audio source and a monitoring input.</p> <p>Test the STS with an audio source.</p> <p>Check the <b>BYPASS</b> switch action.</p> <p>Check the <b>IN</b> potentiometer action. It modifies the input gain. The effect is immediately visible on the vu-meter.</p> <p>Check the <b>OUT</b> potentiometer action. It modifies the output level.</p> <p>Check the speed switch on audio (subtle effect).</p>
4.	Left vu-meter setting	<p>Connect a 1 KHz sine source to the input. You can use your multitrack software loop playing a sine tone like the one that is downloadable from the “Downloads &amp; Useful links” section on our website. Adjust the output level in order to get around 2.5VAC.</p> <p>Now connect the multimeter (AC Volts) between test points <b>OV</b> and <b>TP1</b>.</p> <p>Move the panel <b>IN</b> potentiometer until you read exactly 6.5V. This is 3 dB below clipping.</p> <p>Adjust trimmer P1 on the vu-meter board to the point where the last red LED (<b>clip</b>) just starts lighting up while turning clockwise.</p>
5.	Right vu-meter setting	<p>Repeat the same operation for the right channel.</p>
6.	Congratulations !	<p>You're done !</p>