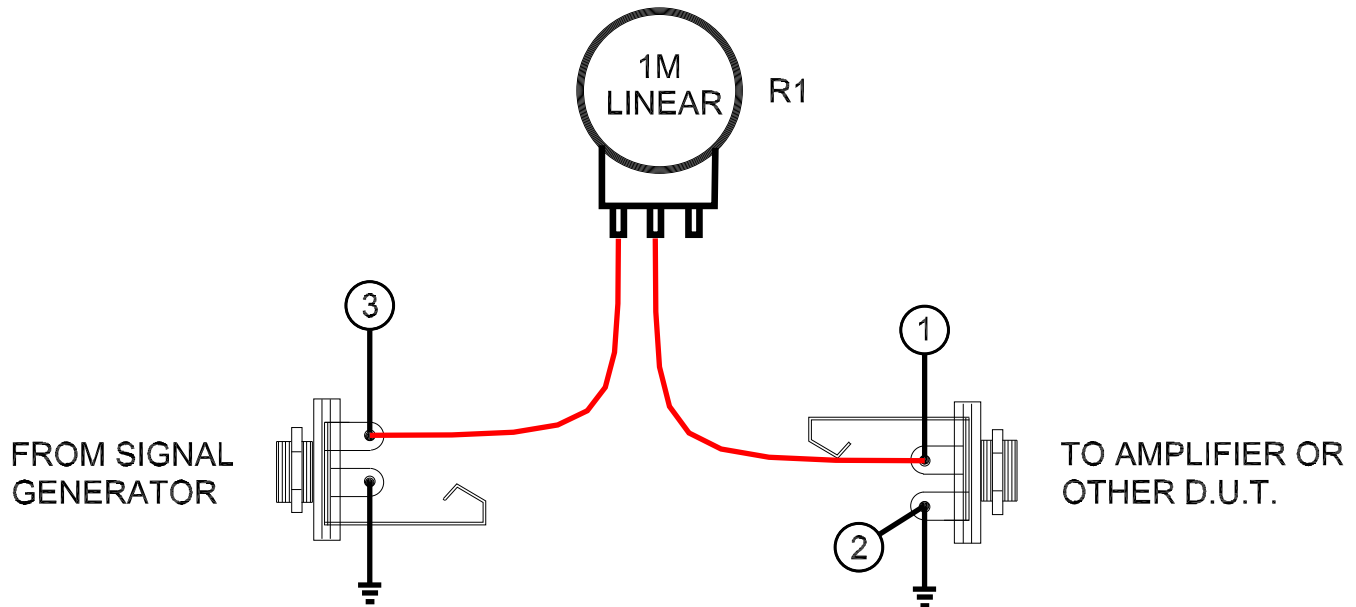


ANDERTON IMPEDANCE TESTER

BY PAUL MAROSSY 9/14/04



This is Craig Anderton's impedance tester. It takes advantage of the fact that impedance and resistance are roughly equivalent in this application.

Using it is very simple. Set a multimeter to 10VAC range. Set R1 to zero resistance. Measure signal level and adjust signal level so that it is about 1 to 2 volts AC. After the appropriate input signal voltage is set, rotate the pot so that the reading is exactly half of what it was in the previous step. Then measure the resistance between test points 1 & 3. This reading will be approximately equal to the input impedance of the device under test (D.U.T.) Test point number 2 is used for the ground reference when measuring the AC input voltage in the first step.

If the impedance measured is under 100K, a preamp or buffer between the guitar and amp/effect may be required to prevent tone sucking and signal loss. Readings of 100K to 200K are acceptable, but you may still hear some high end loss. An input of over 200K works best for guitar. Input impedances of over 500K can pick up RFI (radio frequency interference).