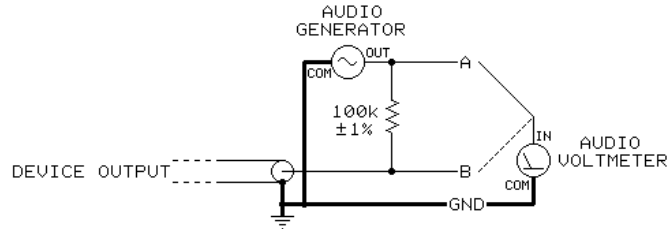


SIMPLIFIED MEASUREMENT OF OUTPUT IMPEDANCE

FOR AUDIO OUTPUT (SOURCE) IMPEDANCES UNDER ABOUT 1 k Ω , THIS PROCEDURE WILL BE ACCURATE TO WITHIN ABOUT 1%. IT IS SUITABLE FOR MICROPHONES AND VOLTAGE AMPLIFIERS, BUT NOT FOR POWER AMPLIFIERS.



1. CONNECT THE SIGNAL GENERATOR, 100 k Ω RESISTOR, AND DEVICE OUTPUT AS SHOWN ABOVE.
 2. SET THE GENERATOR FOR 1 kHz AND AN OUTPUT OF 10 VOLTS (RMS) AT POINT "A" (METER COMMON TO GND). (THIS ESTABLISHES A CURRENT OF 0.1 mA RMS THROUGH THE 100 k Ω RESISTOR)
 3. MEASURE THE VOLTAGE AT POINT "B". THE OUTPUT IMPEDANCE (OHMS) IS 10 TIMES THIS VOLTAGE (MILLIVOLTS). FOR EXAMPLE, 15 mV WOULD INDICATE 150 OHMS, 60 mV WOULD INDICATE 600 OHMS, ETC.
- * IMPEDANCE AT OTHER FREQUENCIES USE THE SAME PROCEDURE, BUT A DIFFERENT GENERATOR FREQUENCY.

BE SURE THAT THE DEVICE UNDER TEST IS POWERED UP (IF APPLICABLE) AND THAT, IF THE GENERATOR IS TURNED OFF, THE VOLTAGE AT POINT "B" IS MUCH, MUCH LESS THAN WITH THE GENERATOR ON.

© COPYRIGHT 1996, JENSEN TRANSFORMERS, INC.

jensen	AS048
	02/06/96
7135 HAYVENHURST AVE. VAN NUYS, CALIFORNIA 91406 (818) 374-5857	