EXPERIMENT: 7.5

EXAMINATION OF SOURCE GROUND CONNECTION

EXPERIMENTAL PROCEDURE:

Plug the Y-0016/012 module. Make the circuit connections as in Figure 7.13 and apply energy to circuit.

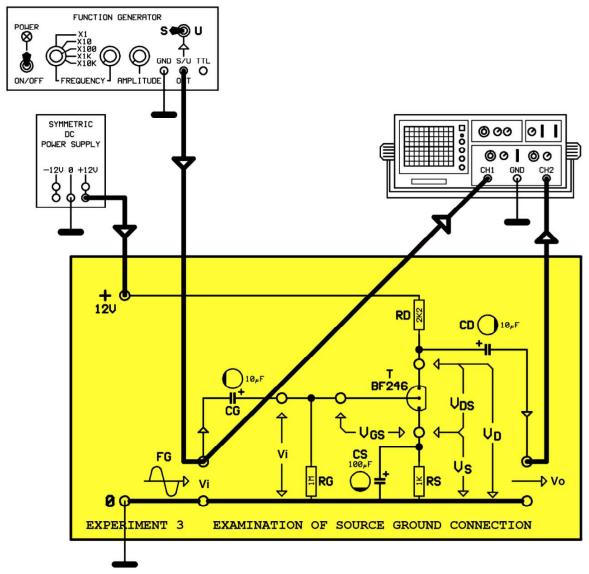


Figure 7.13

1- Disconnect the function generator from the circuit. Measure the VG, VGS, VS, VDS, VD voltages by the help of a digital voltmeter.

Vi	<i></i>	Volt
VGS	:	Volt
VS	:	Volt
VDS	:	Volt
VD	:	Volt

2- Adjust the output of function generator to sine, frequency to 1 KHz and peak to peak amplitude to Vpp =100mV, and apply to FG input. What is the phase difference of input and output signal? Measure the amplitude of output signal.
Output signal amplitude is Vpp=Volt.
3- Calculate the voltage gain of circuit.
Voltage gain:
$A = \frac{Vout}{Vin} = \dots$
4- In which areas the source ground connection is used?