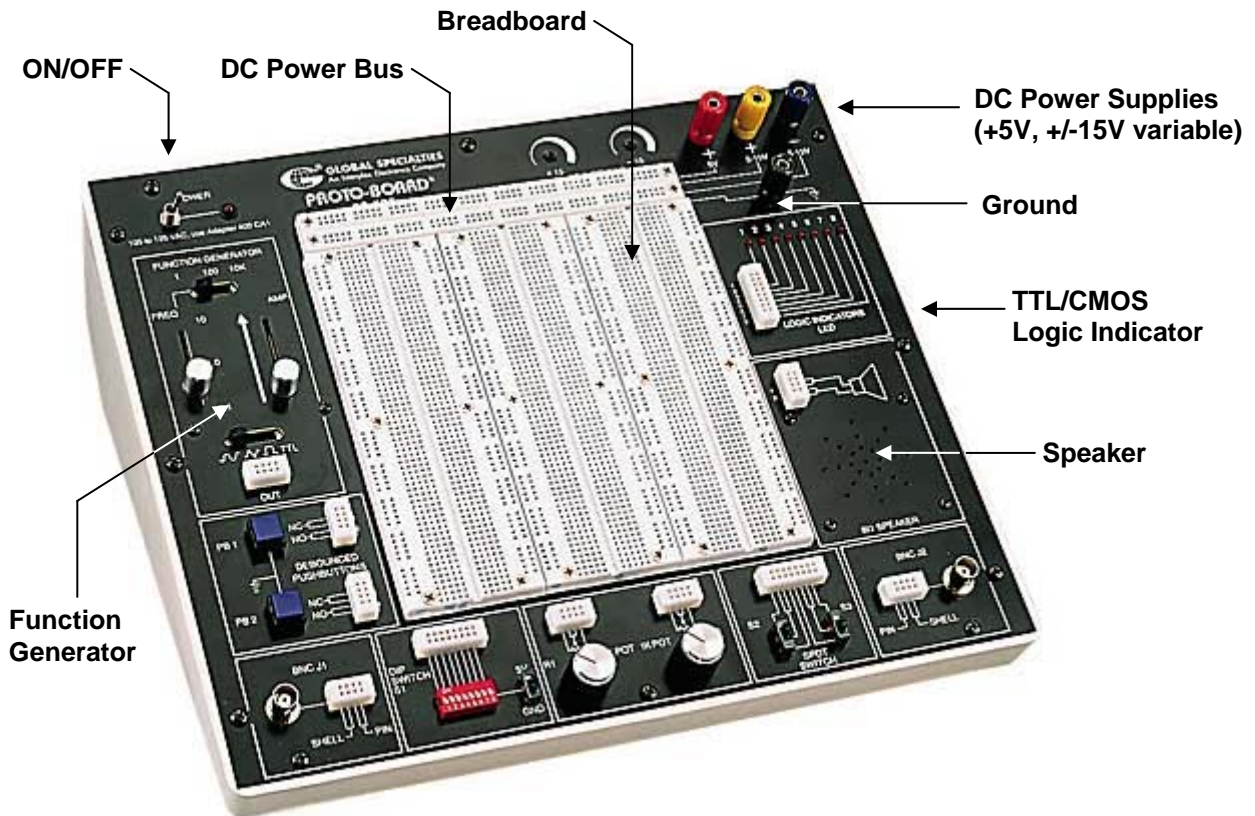# PROTO-Board Development Board
Safety Handout
Last Revised July 26, 2005

The PROTO-Board PB-503 Development board is a complete development system. It has onboard DC power supplies, a function generator, logic indicators, a speaker, and switches and buttons for use as inputs. Some major components are labeled below:

Onboard DC power is available in the top-right corner of the board and also from the power bus that runs along the top of the breadboard. In order to avoid electrocuting yourself, damaging your circuit components, or damaging the equipment, observe the following rules concerning electrical power:

1) **Ground yourself to the board when working with static sensitive components**
   Anti-static wrist straps are available in all tool boxes.

2) **Construct and modify your circuit with the PB-503 power turned off**
   Do not connect or disconnect wires when the power is turned on.

3) **Double check power connections before enabling power to your circuit**
   In particular, make sure you have integrated circuits oriented in the correct direction.

4) **When working with the variable DC power supplies, test the voltage with a multimeter before connecting the supply to your circuit**
   This will prevent you from supplying an over-voltage condition to your circuit accidentally.

5) **Do not leave power wires dangling**
   Dangling power wires can short the power supply, which is bad for both your circuit and the development board.