

# Proto-Board®

## Information Sheet

Congratulations ! You now own the best electronic circuit design and prototyping aid available...a Global Proto-Board®.

Before using your Proto-Board®, there are a few points of information worth noting. For example...

### BINDING POSTS

The binding posts facilitate power, and ground connections to and from external sources on the Proto-Board. These posts can accept banana plugs, pin jacks, and spade lugs, as well as alligator clips, solid and stranded wire

### BUSES

Horizontal and vertical buses (depending on model) are provided on each Proto-Board. Depending on the model, both the number of buses and the number of contacts on each bus will vary.

### COMPONENT INSERTION

IC's are mounted by lining up the leads with the contact holes on each side of the center of a socket, then pressing gently at the center of the IC until it clicks into position.

Withdrawing an IC can be tricky. You should use an IC puller (available from Global) or a thin-bladed screwdriver. If you choose to use a screwdriver, slide the end of the screwdriver blade under one end of the IC and lift gently. Repeat on the other side. Then remove the IC from the socket. By following this procedure, you will not bend the leads of the IC.

Pre-forming the leads so they resemble a DIP pack can accommodate TO-5 case IC's. This is easily done with a pair of long nose pliers.

Transistors can be inserted bridging the center of a socket, or with leads-in-line on one side of the socket.

Diodes, resistors, and capacitors may be inserted in the same manner as jumper wires.

Special components such as switches, potentiometers, etc. can be used with sockets by simply soldering short lengths of #20-24 gauge solid wire to their terminals and then inserting them into a socket or bus strip.

### JUMPER WIRE

The jumper wires should be #20-24 gauge solid hook-up wires. We suggest that the insulation on the wires be stripped 1/4" to 3/8" from each end to ensure easy insertion into the sockets and bus strips. For your convenience, Global Specialties provides a kit of 350 pre-cut, pre-stripped, #22 gauge wires in 14 color-coded lengths. For more information, please visit Global's web site.

Sometimes a wire will break off at the surface of a contact hole. There are two ways of taking care of this problem. 1) Simply push the broken wire into the socket (it will not affect the operation of the socket), or 2) Disassemble the socket array as follows:

- A. Remove the screws holding the sockets at the base
- B. Remove the Mylar label from the back of the contact containing the broken wire.
- C. Remove the terminal by inserting a round, stiff 0.025" pin into one of the unblocked hole. Force the terminal completely out of the socket. Remove the broken wire, then place the terminal back into the socket. Be sure to press down firmly.
- D. Remount the socket on the plate.

By following the above suggestions, your Proto-Board should provide you with many years of trouble free service.

