

## Proto-Board® Design Workstation Series

### PB-503

#### Proto-Board Design Workstation Series

- Unconditional Life-time guarantee on all breadboarding sockets & 3-year warranty on all parts and workmanship.
- Ideal for analog, digital and microprocessor circuits
- New high & low buffered logic indicators
- 8 channel logic monitor
- New 8 selectable logic switches
- Function Generator with continuously variable sine, square and triangle waveforms and TTL pulses
- Triple output power supply offers fixed 5 VDC supply plus two variable outputs:  $\pm 1.3$  to  $\pm 15$ VDC
- Two Digital Pulsers
- Audio experimentation speaker
- Removable breadboard plate with additional plates available
- Multiple features in one complete test instrument saves hundreds



of dollars  
necessary for  
individual units

The PB-503  
Protoboards® contain  
multiple features in one  
complete test instrument,  
saving hundreds of  
dollars needed for  
individual units. Not only  
will you save money, you  
will save space. The PB-  
503 design station takes  
up just over 1 square  
foot of desk space, while  
delivering the  
functionality of a full test  
bench of performance.

## PB-503

### POWER

3-wire AC line input (117V, 60 Hz typical) with power-on indicator. Both Models are available in 220-240VAC@50Hz

Fixed DC output +5V@1.0A, ripple <5mV.

Variable DC output +1.3 V to +15V@0.5A, ripple <5mV.

Variable DC output -1.3V to -15V @ 0.5A, ripple <5mV.

### FUNCTION GENERATOR

Frequency Range 0.1 Hz to 100 kHz in six ranges.

Output voltage 0 to  $\pm 10V$  (20Vp-p).

Output 600 ohms (except TTL).

Impedance

Output current 10mA maximum, short circuit protected.

Output waveforms sine, square, triangle, TTL.

Sine wave

distortion <3% (10Hz to 100kHz).

TTL pulse rise and fall time <25 nS. drive to 10 TTL loads

Square wave rise and fall time <1.5 $\mu$ S

### LOGIC INDICATORS

8 LED's, active high, 1.4 volt (nominal) threshold, inputs protected to  $\pm 20$  volts.

### DEBOUNCED PUSH-BUTTON (PULSERS)

Two pushbutton-operated, open-collector output pulsers, each with one normally-open, one normally closed output. Each output can sink up to 250 mA.

### POTENTIOMETERS

One 1 K ohm, one 10 K ohm, all leads available and uncommitted.

### BNC CONNECTORS

Two BNC connectors, pin available and uncommitted, shell connected to ground.

### SWITCHES

Two SPDT slide switches, all leads available and uncommitted. 8-pole DIP switch: one side of all eight switches connected and switchable to +5V or ground, other side of all eight switches separate, available, and uncommitted.

### SPEAKER

0.25W, 8 ohms

### BREADBOARDING AREA

Three UBS-100 sockets with 840 tie-points each for a total of 2520 uncommitted tie-points. Two QT-59B Bus strips internally connected to power and ground. Fifty tie-points each for +5V, +V, =15 V and ground.

### ENCLOSURE

High impact molded case.

### GENERAL

Weight 7 lbs

Overall Dimensions 6.5" H x 16" W x 11.5" D

Part Number

104-5030

# Prototyping & Design Products

**MOST POPULAR!**

**DESIGN WORKSTATION**

## Proto-Board® Design Workstation Series

An exceptional combination of advanced functions, flexibility and features, built with Global Specialties® dedication and commitment to quality and workmanship, make our Circuit Design Workstations a valuable cost-effective product for research & development and educational applications.

### ADVANCED CIRCUIT DESIGN TRAINER

- ▶ Large removable breadboard area with limited lifetime warranty
- ▶ Two digital pulsers
- ▶ Built-in multi-waveform 100KHz function generator
- ▶ Quad voltage power supply: three DC & one low voltage AC
- ▶ Built-in logic probe with pulse capture
- ▶ BCD to 7 segment decoder/display
- ▶ 8 channel logic indicators
- ▶ Audio experimentation speaker



**PB-505**



**PB-4**

### WORKSTATION SOCKET PLATES

Replacement socket plates for global circuit design workstations

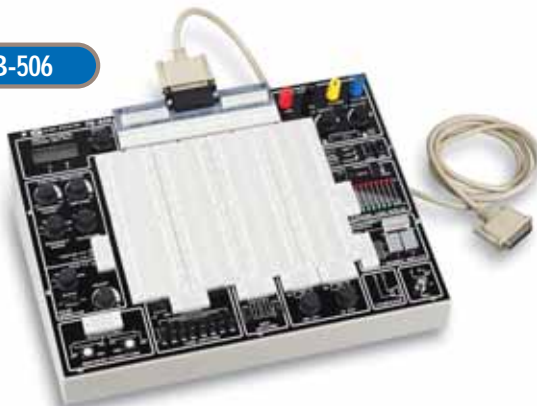
- ▶ PB3 for use with PB503 & PB503C
- ▶ PB4 for use with PB505 & PB506



**PB-3**

### PROFESSIONAL CIRCUIT DESIGNER WITH COMPUTER INTERFACE

**PB-506**



- ▶ Removable breadboard area with limited lifetime warranty
- ▶ 1 MHz multi-waveform function generator
- ▶ Quad voltage power supply
- ▶ Logic probe with pulse capture
- ▶ 8 channel logic indicators
- ▶ With 1 MHz pulse generator
- ▶ Detachable 25-way computer interface

**NEW!**  
RUGGED ENCLOSURE

### PORTABLE DESIGN WORKSTATION & BENCH-TOP WORKSTATION

**PB-503**



- ▶ Limited lifetime warranty on sockets
- ▶ Ideal for analog, digital and microprocessor circuits
- ▶ 8 channel logic monitor
- ▶ 8 selectable logic switches
- ▶ Function Generator with TTL pulses



**PB-503C**

- ▶ Triple output DC power supply
- ▶ Two digital pulsers
- ▶ Audio experimentation speaker
- ▶ Removable breadboard area and optional additional breadboard socket plates available