

## Global Specialties Breadboard Workstation

- Ideal for Analog, Digital, and Microprocessor Circuits
- Removable Breadboard Plate
- More Than 2500 Tie Points
- Lifetime Warranty on Sockets

### New – Advanced Breadboard Workstation

- Expanded “Removable” Breadboard Area with More than 3360 Tie Points
- Rugged Metal Case
- Quad Voltage Power Supply Includes Additional AC Output
- Built-in Logic Probe
- BCD to 7 Segment Decoder Display



▲ 5182BB

### Specifications

DC Outputs	Fixed: +5V @ 1.0A, ≤5 mV ripple Variable: ±5V to ±15V @ 0.5A, ≤5 mV ripple
Frequency Range:	0.1 Hz to 100 kHz in six ranges
Output Waveforms:	Sine, square, triangle, TTL
Sine Wave Distortion:	≤3%, 10 Hz to 100 kHz
TTL Pulse:	≤25 ns rise and fall time; drives 20 TTL loads
Square Wave:	≤1.5 μs rise and fall time
Output V/Z/I:	0 to ±10V, 20V p-p/600Ω except TTL/10 mA max
Pushbuttons (Pulsers):	Two pushbutton-operated, open-collector output pulsers
Switches:	Two SPDT slide switches, 8-pole DIP switch
Power Supply:	120 VAC, 60 Hz
Size/Weight:	5182BB: 6.5 x 16 x 11.5" HWD/7 lbs; 5183BB: 14 x 19 x 7" HWD/7 lb, 13 oz

### Total Design Workstation Includes Power Supply, Instruments, and Breadboard

Both models include a rugged, regulated triple DC power supply with automatic current limiting and a 100 kHz function generator with sine, square and triangle outputs, plus a TTL output for generating clock pulses. Two digital open-collector pulsers operated by debounced pushbuttons are also available. The eight LED logic state indicators operate as individual logic probes. Other on-board hardware includes a speaker, SPDT slide switches, 1k and 10k potentiometers, BNC connectors, and selectable logic switches.

The breadboarding area has 2520 uncommitted tie points—enough for circuits containing twenty four, 14-pin ICs. And the breadboarding sockets are backed by an unlimited, lifetime warranty.

### Ordering Information

Order #	Description	Price
MP5182BB	Proto-Board® Desktop Breadboard Workstation	
MP5183BB	Proto-Board® Portable Breadboard Workstation	
MP5183BB-3	Additional Removable Socket Plates for Breadboard Workstation	
MP5184BB	Advanced Proto-Board Desktop Breadboard Workstation	
MP5184BB-1	Additional Removable Socket Plates for “Advanced” Breadboard Workstation	
MP5183BB-2	Optional Wire Jumper Kit (350 pc) (for all workstations)	

## Global Specialties Electronic Prototyping Software

- Easy-to-Use “Click and Drag” Placement and On-Line Help
- Complete Selection of Active and Passive Components
- Five Virtual Test Instruments for Circuit Analysis
- Pre-Designed Circuit Library

Instantly create and analyze circuits on your PC—no need for breadboards and tools! This circuit-simulation package is so easy to use, you’ll be designing just moments after you install it. Choose components from a comprehensive list that includes wires, junctions, grounds, resistors, inductors, AC and DC voltage and current sources, diodes, zener diodes, transistors, and MOSFETs. Drag and place them on the large prototyping grid, which is similar to a breadboard, and, when you’ve finished the circuit design, check it with the software’s “virtual” test instruments. Just “place” the probes at the desired nodes on the grid. Five instruments—voltmeter, ammeter, wattmeter, scope, and ohmmeter—let you perform thorough analyses, with easy adjustment of timing intervals and voltage and current steps.

You can also take advantage of the 23552E’s library of pre-designed circuits, which includes amplifiers, bridges, oscillators, power supplies, voltage stabilizers, and more. This saves you time on standard portions of your design, so you can concentrate on unusual or complex circuit requirements.

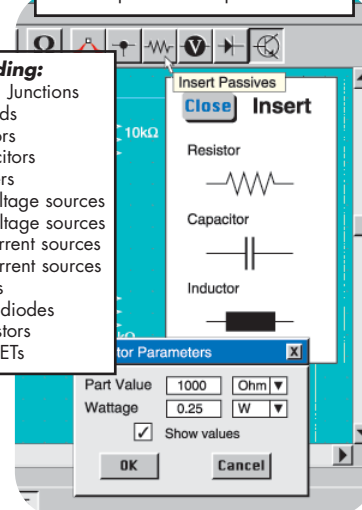
### System Requirements:

- IBM PC or Compatible, 386 or Higher Processor
- 4 MB RAM Minimum
- SVGA Graphics Card
- Windows™ 3.1 or Windows™ 95

Design circuits instantly by choosing from a long list of active and passive components...

### Including:

- Wires, Junctions
- Grounds
- Resistors
- Capacitors
- Inductors
- DC voltage sources
- AC voltage sources
- DC current sources
- AC current sources
- Diodes
- Zener diodes
- Transistors
- MOSFETs



### ProtoLab’s Pre-designed Circuit Library Includes:

- MOSFET and Transistor Amplifiers
- Bridges
- Sine Wave Oscillators
- Squarewave Oscillators
- Phase Shift Oscillators
- Current Mirrors
- Integrators
- Differentiators
- Transistor and MOSFET Monostables
- LC Oscillators
- Tuned Collector Amplifiers
- LC Tuned Circuits
- Power Supplies
- Voltage Stabilizers

### Ordering Information

Order #	Mfg #	Description	Price
MP23552E	300-0007	Electronic Prototyping Software, ProtoLab 4.0	