The PB-507 contains the following modules:

DC Power Supply\*

AC Power Supply

Function Generator\*

**Pulse Generator\*** 

Frequency Counter\*

**Logic Indicators** 

Logic Probe

Hex to 7 Segments Decoder

Debounced Pushbuttons

Logic switches

**SPDT** switches

**BNC** connectors

Potentiometers

Speaker

\*Active module that functions with LCD

### Features:

- LCD displays the settings from each active module
- USB connection enables viewing and controlling from a PC
- Choose your power source: 6.3/12.6 V AC power, 5 V DC or variable ±20 V DC
- Draw power from banana plug connections or the tie-point power supplies above each breadboard bus strip
- Powerful 1 MHz bandwidth Function Generator with sine, triangle, and square wave outputs
- Pulse Generator operates like a second, independent Function Generator where you can modify the duty cycle between 10 to 90%
- Frequency Counter module reports on the output of your own specially designed circuits
- Flush-mounted, removable circuit breadboard with over 4,100 contact points



### **Overview:**

The PB-507 Advanced Analog & Digital Electronic Design Workstation, is a powerful, versatile tool for circuit designers, engineers, technicians, students, and hobbyists. All digital controls, USB port, and a wide choice of built-in circuit accessories allow rapid and accurate construction of virtually any type of analog or digital circuit.

New on the PB-507 is an LCD that displays the settings for the active module selected. Simply touch a control element and the LCD switches to that module and displays its settings. Use the USB connection on the PB-507 to control or view the module's values from a PC. Using this feature you can project the controls to a large viewing screen for a classroom to observe and follow.

The breadboard area is the largest in our trainer family and is removable for easy replacement.

The PB-507 is designed to withstand the toughest treatment. It is constructed with the highest quality components for many years of reliable service. The alldigital circuitry allows for easy function verification and calibration.

# **PB-507**

**Advanced Analog & Digital** 

**Electronic Design Workstation** 



## Advanced Analog & Digital Electronic Design Workstation

### **Specifications:**

Included
Accessories:

**PC Software** 

Manual

**Power Cord** 

**USB** Cable

Calibration Adaptors

Power	3-wire AC Input with 110 V/220 V Selector Switch Fixed 5 VDC @1 A
Power Supplies	Variable DC - Positive: 0 V to +20 V @0.5 A Variable DC - Negative: 0 V to -20 V @0.5 A Fixed AC - 12.6 V Center-tapped @ 100 mA
Computer Interface	USB 2.0
Function Generator	0.1 Hz to 1 MHz selectable in 7 ranges Output Voltage: 0 to + 10 V (20 Vp- p) Output Impedance: 600 Ω Output Waveforms: Sine, Square, Triangle, TTL
Pulse Generator	Frequency Range: 0.1 Hz to 1 MHz in 7 ranges Output Output Mode: TTL or CMOS (switch selectable) Output Voltage: 0 to 15 Vp-p Duty cycle range: 10 to 90%
Frequency Counter	Frequency Range 0.1 Hz – 1 MHz
LCD Display	LCD Display: Reads Volts, Amps & Frequency
7 Segment Display	(2) BCD to 7 Segment Display Circuits
Logic Indicators	8 Bicolor LEDs: Red (High) and Green (low)
Logic Probe	TTL/CMOS compatible Logic Probe
Logic Switches	(8) Individual Logic Switches
Speaker	0.25 W, 8 Ω
Debounced Pushbuttons	(2) Open Collector Output Pulsers
Switches	(2) Single Pull Double Throw (SPDT)
BNC Connector	(2) BNC Connectors
Potentiometers	1K & 10K Uncommitted
Breadboard	4150 tie points, removable
Voltage	Tied directly to Power Supply
Distribution Bus	Outputs
Dimensions	5.5" x 16.5" x 12.75" (H x W x D)
Weight	14.5 lbs
Warranty	Limited three-year warranty

Specifications subject to change without notice.



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### **Optional Accessories**

**WK-1:** Jumper Wire Kit, 350 pieces

**WK-2:** Jumper Wire Kit, 140 pieces

**WK-3:** Jumper Wire Kit, 70 pieces

**WK-4:** Wire Jumper Kit, 100 wires with machined tips

**GSPA Series:** Prototyping adaptors

**GSPA-K1:** Surface mount to DIP adaptor kit, 6 adapter boards

**GSPA-K2**: Surface mount to DIP adaptor kit, 11 adaptor boards

**GSA-3185**: Minipro Test Clip Set



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