Circuit Design Trainer PB-503A



Description:

Global Specialties model PB-503A is a robust Circuit Design Trainer suitable for all levels of electronics instruction and design.

The PB-503A allows students to acquire valuable hands-on lab experience by employing necessary breadboarding techniques, which provide a solid foundation in circuit experimentation, analyzing and troubleshooting. It can be used to construct basic series and parallel circuits up to the most complicated multi-stage microcomputer circuits, incorporating the latest in industrial technology.

Experienced designers will also find the PB-503A an invaluable, capable and reliable instrument, suitable for the most advanced and demanding design applications. Global Specialties trainers provide the most complete platform required to enable engineers and technicians to train for careers in the rapidly growing field of electronics technology.

The PB-503A is backed by Global Specialties' industry leading 3-year warranty.

Applications:

- Opto-Device Circuits Clocks Multivibrators Oscillator Circuits Timers Function Generator Circuits Logic Circuits Gates Counters
- Flip-Flops Analog-to-Digital Converters Digital-to-Analog Converters Medium Scale Integration Circuits Phase Lock Loops Operational Amplifier

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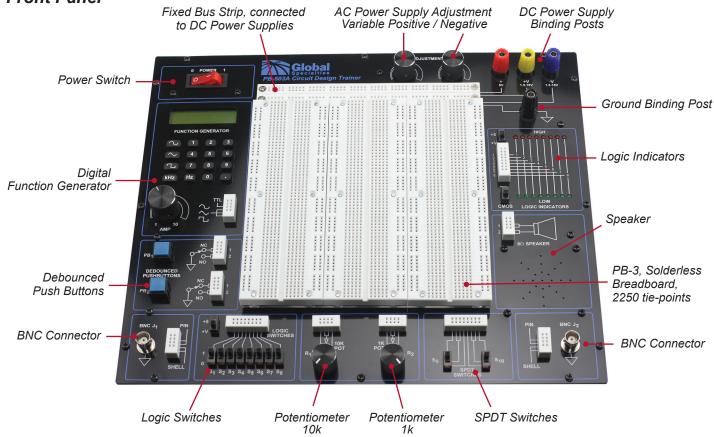
1- www.globalspecialties.com

Features:

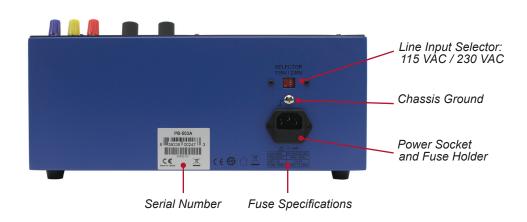
- Ideal for analog, digital, and microprocessor circuits
- Includes built-in digital function generator with continuously variable waveforms
- Triple output power supply for a variety of DC voltage levels
- Two digital pulsers for logic test circuits
- High & low buffered logic indicators
- 8 channel logic monitor
- Audio experimentation speaker
- Removable breadboard plate allows the flexibility of building circuits away from the lab and shared units for groups
- Analog & digital optional courseware available
- Input power source, AC line switchable between:
 - 110 120VAC @ 60Hz
 - 210 230VAC @ 50Hz
- 3-Year warranty



Front Panel



Rear Panel



Accessories

Wide variety of classroom parts available

PB-3



GSC-2311KIT





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Specifications:

All specifications apply to the unit after a temperature stabilization time of 20 minutes over an ambient range of 20 °C ± 5 °C.

Model	PB-503A
AC Line Input	115 VAC @ 60 Hz or 230 VAC @ 50 Hz (switchable)
Power Supplies	Fixed DC: +5 VDC 1.0 A max. (current limited); Ripple <5 mV Variable + DC: +1.3 VDC ±0.05 V @ 150 mA to +15 VDC @ 500 mA, Ripple < 5 mV Variable - DC: -1.3 VDC ±0.05 V @ 150 mA to -15 VDC @ 500 mA, Ripple < 5 mV
Binding Posts	4: Ground, +5 VDC, Variable ±VDC Power Supply Outputs
Pulsers	2 Pushbutton-operated, open-collector output pulsers. Each with 1 normally-open, 1 normally closed output. Each output sinks up to 250 mA
Digital Function Generator	Frequency Range: 0.1 Hz to 100 kHz, two ranges Output Voltage: 0 to +10Vp-p into 600 Ω Load (20 Vp-p in open circuit), short circuit protected Output Impedance: 600 Ω except TTL Output waveforms: Sine, Square, Triangle & TTL Sine Wave Distortion: <3% @ 1 kHz Typical TTL Pulse: Rise & fall time: <25 ns, drive 100 TTL Square Wave: Rise and fall times <0.5 μs
Logic Switches	8 Logic Switches select Logic High and Logic Low Logic Low Level: Ground Logic High Level: Switchable between +5 V and the variable positive power supply
Switches	2 Single Pole Double Throw (SPDT) - uncommitted
Logic Indicators	LEDs: 16 LEDs; 8 red to indicate logic high and 8 green to indicate logic low Logic High Threshold: 2.2 V (nominal) in TTL/+5 V mode, 70% (nominal) of selected operating voltage in CMOS mode Logic Low Threshold: 0.8 V (nominal) in TTL/+5 V mode, 30% (nominal) of selected operating voltage in CMOS mode
Connectors	2 BNC - uncommitted
Potentiometers	2: 1 k Ω and 10 k Ω - uncommitted
Speaker	8 Ω, 0.25 W - uncommitted
Breadboards	Removable plexiglas socket plate (PB-3) with 2,520 tie-points with 200 additional bus strip tie-points internally connected to power supply outputs and ground
Weight	7 lbs (3.2 kg)
Dimensions	6.5 x 12.75 x 10 in (16.5 x 32.4 x 25.4 cm) (H x W x D)
Warranty	3 Years

Contact Info:

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PB-503ALAB





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