

# Trainer Series

## Electronic Trainers

### PB-204 Powered Breadboard



#### Features:

- Combines utility of a Proto-Board with highly capable regulated DC power supplies
- Housed in a rugged metal case
- Fixed triple output power supply, 5V @1A, +12V & -12V @ 500mA.
- Up to (24) 14-pin DIP IC capacity
- Includes (3) QT-59S Premium Quick Test socket strips; (4) QT-59B Premium Quick Test bus strips; (1) QT-47B Premium QuickTest bus strip
- 3-year warranty on all parts and workmanship.

The PB-204 is a durable powered breadboard capable of being used to design a multitude of analog, digital, logic and microcomputer circuits.

The PB-204's on-board power supply eliminates the need for an external supply, adding more versatility to circuit design and experiments, as well as saving valuable bench space by eliminating the need for an external prototyping power supply. Due to its ample sized breadboarding area, the PB-204 is ideally suited to allow for the breadboarding of virtually any type of circuitry, from TTL, CMOS and ECL, to op-amps, audio, comparators, video amps, microprocessor components, phase locks and more.

The PB-204's breadboarding area is comprised of Global's "Premium" solderless breadboards and is backed by an industry leading 3-year warranty.

Global Specialties powered breadboards are an important part of the necessary tools required to enable engineers and technicians to train for careers in the rapidly growing field of electronics technology.

Use the PB-204 to construct a wide variety of experiments, including but not limited to:

- 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



Innovative Training Solutions

[www.globalspecialties.com](http://www.globalspecialties.com)

## Powered Breadboard

### Specifications

Model	
	<b>PB-204</b>
<b>Input power Source</b>	AC Line: 108 to 130VAC @ 60Hz (typical)
<b>Power Supplies</b>	<b>Fixed DC: +5V +/-0.2VDC, 1.0A max, current limited</b> Load Regulation better than 0.8% +/- 0.02%/°C Ripple, <4mVp-p @ 1A <b>Fixed DC: +12VDC, 0.5A max@ +12VDC</b> Load Regulation better than 1% +/- 0.04%/°C, Ripple less that 10mVp-p @ 0.5A <b>Fixed DC: -12VDC, 0.5A max@ +12VDC</b> Load Regulation better than 1% +/- 0.04%/°C Ripple less that 10mVp-p @ 0.5A
<b>Binding Posts</b>	(1) Black: Chassis Ground (3) Red: Power Supply Outputs +5VDC, +15VDC & -15VDC
<b>Breadboards</b>	2250 Tie points with (8) 100 pin and (2) 80 pin power rails and accommodates up to 24 (14 pin) IC's
<b>Weight</b>	5lbs 5 oz (2.5kg)
<b>Dimensions</b>	9.8 x 6.6 x3.3" (249 x 167 x 86,7mm)

Technical data subject to change without notice.

### 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 adapters

**GSPA-K1:** Surface Mount to DIP Adapter Kit, 6 adapter boards

**GSPA-K2:** Surface Mount to DIP Adapter Kit, 11 adapter boards

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

