

# Solderless Breadboards & Digital Labs

3 LEVELS OF SAVINGS  
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## Solderless Breadboards



The screen-printed color coordinates are suitable for many types of digital and analog prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco's AC/DC breadboard power supply, P/N 77682 (below).

- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry
- 0.1" hole spacing
- Pins are identified by numbered rows and columns
- Ideal for high frequency and low noise circuits
- One-year warranty

**Attention Educators! Buy jumper wire on pg 173 in bulk and SAVE! (see Solid Hook-up Wire on page 58)**



20670



20758



20812

### WBU5 Series Key Features:

- Horizontal assembly corresponds to the operation flow design of the PC boards for handy operation
- Round hole design makes the electric connection better
- Formed with V-shaped cross-sectional groove, which allows DIP IC pins to be inserted across two parts and to increase the rate of utilization due to small pitch
- Dovetail protrusions and recesses designed to connect two adjacent parts tightly together

### JE Series Key Features:

- Use to breadboard and debug circuit designs
- Low static, plastic body - CMOS safe
- Nickel-plated clips designed to withstand up to 5,000 insertion cycles
- Breadboard strips connect together to form larger working areas
- Components are easily interconnected using 20-28 AWG wire (P/N 19290 & 20080, pg 173)
- Some models feature heavy-duty aluminum backings (20758, 136901, 20812)

\* Web Code: HAC

Part No.	Cross Ref. No.	Terminal Strips	Bus Strips	Contact Points	Binding Posts	Breadboard Size (L" x W")	Baseplate Size (L" x W")	Weight (lbs.)	Pricing			
									1	5	50	100
94457	JE19	0	1	100	0	6.5 x 0.4	—	0.04	\$3.49	\$3.19	\$2.89	\$2.65
20601	JE21	1	2	400	0	3.3 x 2.1	—	0.13	5.95	5.49	4.95	4.49
20670	JE22	1	0	630	0	6.5 x 1.4	—	0.20	6.95	6.29	5.49	4.95
194299	JE37	1	2	640	0	6.9 x 2.4	—	0.25	8.95	7.95	6.95	5.95
20723	JE23	1	2	830	0	6.5 x 4.0	6.5 x 2.1	0.30	9.95	8.95	7.95	6.95
194272	JE34	2	3	1,560	3	6.5 x 4.0	8.5 x 4.7	0.73	18.95	16.95	14.95	12.95
20758	JE24	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	14.95	13.49	11.95	10.95
136901	WBU504	2	3	1,855	4	5.5 x 5.5	7.4 x 6.3	0.90	19.95	17.95	15.95	13.95
20774	JE25	2	4	1,660	3	6.5 x 4.3	8.5 x 5.1	0.80	20.95	18.95	16.95	14.95
20791	JE26	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	27.95	24.95	21.95	19.95
20812	JE27	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	33.95	29.95	26.95	24.95

† WBU5 and JE series do not interconnect

### Breadboard Pin to Breadboard Pin Test Leads

Part No.	Description	1	10	50
421315	Breadboard pin to breadboard pin test leads (20 pk), 4 each color-coded (red, yellow, blue, black, white), 24 AWG wire, 5.9" wire length (150mm)	\$9.95	\$8.95	\$7.95

## Digital Design Lab

Our most popular digital lab!

\* Web Code: LAJ

- 1580 tie points
- Fixed power supply: ±5VDC @ 1.0A
- Two 7-segment displays (digit height: 0.3")
- DCV digital multimeter
- One-year warranty

### Solderless Breadboard

- Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

### DC Power Supplies

- DC supplies equipped with short-circuit protection
- Variable DC power: 0 to +15V & 0 to -15V @ 0.5A

### Function Generator (5 ranges)

- Frequency ranges: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz
- Sine wave output: 0-8 Vp-p variable
- Triangle wave output: 6Vp-p fixed
- Square wave output: ±5V fixed

Includes: Power cord and manual

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	5
75839	Digital lab	10.6 x 13.3 x 5.0	8.1	\$379.95	\$359.95
1952599	Replacement breadboard	4.5 x 6.75 x 0.37	0.5	29.95	26.95



International 115/220VAC Switchable

## Digital/Analog Design Labs

### Solderless Breadboard

- 2712 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

### DC Power Supplies

- Fixed DC output: +5VDC @ 1A; -5VDC @ 300mA
- Variable DC output: 0 to +15V & 0 to -15V @ 500mA (P/N 136267) 0 to +15V & 0 to -15V @ 1A (P/N 1919211)

- Input power: 110/220VAC @ 50-60Hz (switchable)

### Function Generator (5 Ranges)

- Frequency ranges: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz
- Sine & square wave output: 0-8 Vpp variable
- Triangle wave output: 0-6 Vpp variable
- TTL mode output: 5Vpp (P/N 1919211 only)

### Other Features

- 2.5" diameter, 8Ω, 25W speaker
- 2 banana sockets, 2 BNC jacks
- 2 pulse switches (2 sets of outputs: A, A, B, B)
- Two 7-segment LED displays (digit height: 0.3")

- 136267: 2 variable resistors: VR1=1kΩ, VR2=100k
- 8 data switches
- 8-bit red LEDs with separate input terminals
- One-year warranty
- 1919211: 16 bit data switches w/ corresponding output points
- 16 red LEDs w/ separate input terminals

Includes: Power cord and manual (both P/Ns 136267 & 1919211); jumper wires (P/N 1919211 only)

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	5
136267	Digital/analog lab	12.8 x 9.8 x 3.7	8.5	\$499.95	\$449.95
1919211	Digital/analog lab	13.0" x 10.5" x 3.5"	9.1	459.95	399.95
319214	Replacement breadboard	6.7 x 6.5 x 0.4	0.5	39.95	35.95



136267

## AC/DC Power Supply

Ideal for Breadboards on above

With built-in short-proof regulated power supplies.

- Input power: 120/220VAC @ 50-60Hz (switchable)
- Indicator lamps and power fuses
- Just plug in & start to use
- Compact & lightweight
- For both digital and analog circuits
- Compatible with test leads P/N 77842, pg 158
- Size: 7.4"W x 5.5"D x 2.6"H
- Color: beige
- Weight: 5.5 lbs.
- One-year warranty



International 120/220VAC Switchable

Output Specifications:  
+5VDC @ 1A;  
-5V @ 300mA fixed;  
0 to +15VDC @ 500mA variable;  
0 to -15VDC @ 300mA variable;  
12-6-0-6-12 tapped VAC,  
300mA fixed

Part No.	Product No.	1	5
77682	Power supply	\$149.95	\$139.95

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RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

