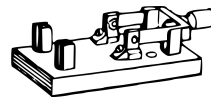


Super Breadboard 2

Bill of Materials



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Part	Value	Remarks	Qty	Reference	Provided
Standoffs	M3	nylon stands 8mm	4		
	M3	nylon nuts	4		
Pin header	1 x 3 pin	male vertical	1	J2	
	1 x 1 pin	male horizontal (<i>backside</i>)	2	J18, J19	
	2 x 2 pin	male horizontal (<i>backside</i>)	1	J1	
	2 x 5 pin	male horizontal (<i>backside</i>)	1	J3	
	2 x 10 pin	male vertical	1	J6	
Jumper	1 x 2 pin	jumper	10	J6	
	1 x 2 pin	jumper with pull-tab	1	J2	
Connector	USB-C	16 pin USB-C connector (<i>backside</i>)	1	J14	A
	1 x 2 pin	JST PH contact strip horizontal (<i>backside</i>) ²	1	J13	
	15 cm	9 volt battery clip (<i>backside</i>)	1	J16, J17	
Socket	1 x 2 pin	female vertical bus	3	J9, J11, J12	
	1 x 4 pin	female vertical bus	1	J15	
	1 x 10 pin	female vertical bus	2	J7, J8	
	2 x 2 pin	female vertical bus	1	J10	
	2 x 2 pin	female horizontal bus (<i>backside</i>)	1	J4	
	2 x 5 pin	female horizontal bus (<i>backside</i>)	1	J5	

A means already assembled on the PCB.

Notes:

- 1) Some provided resistor-values could differ slightly, as could their band colors, this has no effect on the working of the board.
- 2) This **power connector** (J13) can be used to attach the *Logic Probe* (available as a kit). The pins are marked with + and - at the backside of the PCB. The connector can be soldered at the left hand side or the right hand side, whatever is preferred.

Important:

- If a finished 8-bit Workbench is available; on a flat table, mount the standoffs and insert the unsoldered pin headers (J1, J3) into the female busses of the Workbench to have them perfectly aligned before soldering them.

CONTINUES ON THE NEXT PAGE

Part	Value	Remarks	Qty	Reference	Provided
Resistor ¹	330 Ω	1/4 W - orange, orange, black, black, brown	1	R1	
	5.1 kΩ	62.5 mW chip resistor SMD 0402 (<i>backside</i>)	2	R2, R3	A
Resistor Net	330 Ω	3x resistor, 6 legs	1	RN1	
Capacitor	100 nF	marked with '104'	3	C2, C4, C6	
	10 μF	elco radial	3	C1, C3, C5	
Transistor	BC547	Bipolar NPN	1	Q1	
IC	AMS1117-3.3V	800 mA 3.3V voltage regulator (<i>backside</i>)	1	U1	A
	AMS1117-5.0V	1A 5.0V voltage regulator (<i>backside</i>)	1	U2	A
Fuse	500 mA	PPTC resettable fuse SMD 1206 (<i>backside</i>)	1	F1	A
Switch	ON	Push Button	1	SW2	
	DPDT	Small slide Switch ON-ON	1	SW1	
LED ³	red	3 mm, round ⁴	1	D1	
	green	3 mm, round	1	D2	
	orange	5 mm, round	1	D3	
	spacer	8 mm for 3 mm LED ⁴	1	D1	
Misc	400 pin	breadboard with adhesive, black	1	-	
			Parts	52	(without assembled)
			Types	29	(without assembled)

A means already assembled on the PCB.

Notes:

- 3) When preferred, other LED colors can be used. Make sure to check if the values of the resistor R1 and resistor network RN1 are correct for the LEDs used (see Schematics).
- 4) Put the LED spacer between the legs of the red LED (D1) before soldering.

Important:

- Check the LED (D1-D3) polarity. The long leg is the anode (+) and the short leg the cathode (-). The short leg should go through the square pad and the long leg through the round pad.
- Before applying power, check J1-J5 for shorts between all side to side pins using a multimeter in continuity mode.