

“Don’t touch” Parts List Sep 2025

Part	Supplier	Part no		URL	Cost per	Qty \$100+
	Battery Holder and alternatives		Note			
Recommended 9V PCB Mount battery holder	Altronics	S5048		https://www.altronics.com.au/p/s5048-9v-battery-holder-pcb-mount/	1.6	\$1.30
Notes 1)	PCB Mount 9V battery holders are available from other suppliers with different pin spacing, the board can accommodate pins spacing from 12 to 14.5 mm					
2)	The holes for the PCB mount are slotted to accomodate different pin spacings - the only holder i have tried is the Altronics one with a spacing of 12.5mm					
3)	You can also use a 9V battery holder with leads, just use the same holes as the PCB mount holder and stick it on slightly overlapping the back of the ON/OFF switch					
	Use 2mm double sided tape to hold the battery holder on to the board regardless of the type used, to take the strain off the pins when the board is held and when the b					
Notes	Use double sided tape to hold the battery holder on to the board regardless of the type used, to take the strain off the pins when the batteries are replaced					
	Part number on the holder is BH-9VPC, there are many different supplier of this in Australia. Also seen it at Jaycar and Radio parts					
Double sided tape	Have a look at Repco, or Supercheap Auto or the following.19-24mm wide, tape 2mm thick (may have to use 2 - 1mm layers). But you only need a 10mm long section so 1 roll goes a long way			http://www.handyhardware.com.au/double-sided-adhesive-tapes/ T1A is what I use, 2M long (will do 200 Kits), 24mm wide and 2mm thick \$8 for a role.	0.04	0.04
7 Segment display	Aliexpress	5161AS	Any single digit common cathode 0.56inch Red 7 segment display will do	https://www.aliexpress.com/item/1005003093303907.html?spm=a2g0o.order_list.order_list_main.311.2d3a1802BgVil6	0.644	0.31
Resistors	NOTE: Hole spacing on the PCB for the resistors is 10mm, so only use 1/4w resistors as these have a 6.8 mm l					
	Also use the brown coloured carbon film 5% resistors not the blue/green 2% as its easier to see the colours against the brown background					
R1	470 ohm	Need 1 of these per board	can get these for a few cents each in bulk	https://au.element14.com	0.06	0.03
R5 -11	1K	Need 7 of these per board			0.06	0.03
R2	100K	Need 1 of these per board			0.06	0.03
R3 and R4	10K	Need 2 of these per board			0.06	0.03
Note	Recommend using ¼ carbon film as it is easier to see the difference in the colour bands than on the metal film					
IC's	Element14	CD4026BE		https://au.element14.com/texas-instruments/cd4026be/ic-buffer-driver-receiver/dp/3119752?CMP=i-55c5-00001622	1.68	1.68
IC sockets	Element 14	SPC15498	16 Pin IC socket	https://au.element14.com/multicomp/spc15498/dip-socket-16-position-through/dp/1183574	\$0.44	\$0.44
Switches	Element 14	B3F-4000	need 1 of these	https://au.element14.com/omron/b3f-4000/switch-flat-spst-no-0-05a-24vdc/dp/176434?st=b3f-4000	\$0.85	\$0.85
Capacitors						
C1	Element 14	MCMLR50V105KX7 R	Multilayer Ceramic 1uf 50v	https://au.element14.com/multicomp-pro/mcm1r50v105kx7r/cap-1-f-50v-10-x7r/dp/2112947?CMP=e-email-sys-orderack-GLB	1.38	\$0.41
C2	Element 14	MCFYU6104Z6	Ceramic 0.1uf 50V	https://au.element14.com/multicomp/mcfyu6104z6/cap-0-1-f-50v-y5v/dp/9411887?CMP=i-55c5-00001622	0.56	\$0.15
Buzzer	Aliexpress	TMB12A05		https://www.aliexpress.com/item/32914327679.html?spm=a2g0o.order_list.order_list_main.121.7fa918020Eo5PE	0.296	0.21
Brass Wire	Australian Lapidary Supplies	10M Roll 1.25mm solid brass, soft uncoated and annealed.Hole size is 1.4mm, so do not get anything larger than 1.3mm width.	need 35cm per kit	https://www.australianlapidarysupplies.com.au/australian-wire-free-postage-c-346/125mm-16g-awg-or-18g-swg-solid-brass-wire-in-10-metre-coils-p-4571.html	\$0.47	\$0.47
Alternative supplier for the Brass wire	AliExpress	As above, but note: the brass wire from AliExpress is a little softer - but still ok to use.	If you source the brass wire from this site, get the 1.3mm, it firmer than the 1.2mm, and will still fit the 1.4mm hole.	https://www.aliexpress.com/item/1005006280193067.html?spm=a2g0o.order_list.order_list_main.5.77c81802cpb982		
Heatshrink for the probe	Aliexpress		4mm width * 20mm length - 1 piece per kit (comes in 1M length, 50 kits per length)	https://www.aliexpress.com/item/4000075088836.html?spm=a2g0o.order_detail.order_detail_item.5.9a85f19cYOxbvY	0.05	0.05
Wire for the probe	Aliexpress		20AWG stranded and silicon covered, so it bends easily, need 25cm length for each kit, 2M Length - does 5kits	https://www.aliexpress.com/item/4000485605478.html?spm=a2g0o.order_detail.order_detail_item.10.295cf19cwbQzGK	\$0.20	\$0.20

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Kapton Tape	Ebay	30mm wide - about \$16 a roll	1 roll will do about 300 kits		\$0.03	\$0.03
Board	JLPCB				\$1.00	\$1.00
Battery	eBay	100 Pack	Cheapest I could find	https://www.ebay.com.au/itm/266041701206	\$0.65	\$0.65
				Total - Cheapest prices	\$10.13	\$7.91