Catch Me Parts List

Part	Supplier	Part no		URL	Cost per	Qty \$100+	Notes	Original manufacturer and part number
	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/	1.15	\$0.95	there are many dif	e holder is BH-9VPC, ferent supplier of this in en it at Jaycar and
Notes 1)	PCB Mount 9V battery	holders are available from othe	r suppliers with different pin spa	acing, the board can accommodate pins spacing from 12 to 14.5 mm				
2)	The holes for the PCB mount	are slotted to accomodate diffe	erent pin spacings - the only hol	der i have tried is the Altronics one with a spacing of 12.5mm				
3)	You can also use a 9V batter	y 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	e 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							
Double sided tape	19-24mm wide, ta	oco, or Supercheap Au ape 2mm thick (may ha need a 10mm long se long way	ave to use 2 - 1mm	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		
LED	Ledsales	5MM_DIFF_RED	Red colour	https://www.ledsales.com.au/index.php? main_page=product_info&cPath=148_152_154_25 2&products_id=2229	0.20	0.12		
	Any other 5mm LED (20ma) LED will work, but these are diffused and easier to see night and day.							
Resistors	NOTE: Hole spacing	g on the PCB for the	resistors is 10mm, so	o only use 1/4w resistors as these have a 6.8 mm b				
	Also use the brown of the brown background		% resistors not the blu	ue/green 2% as its easier to see the colours against				
R1 and R4	10K	Need 2 of these per board	can get these for a few cents each in bulk	https://www.altronics.com.au or https://au.element14.com	0.12	0.06		
R2	10M				0.06	0.03		
R3	100K				0.06	0.03		
R5	470 ohms				0.06	0.06		
Note	Recommend using ¼ carbon film as it is easier to see the difference in the colour bands than on the metal film							

Part	Supplier	Part no		URL	Cost per	Qty \$100+	Notes	Original manufacturer and part number
555 Timer	Element 14	NE555P		https://au.element14.com/texas-instruments/ ne555p/timer-single-precision-dip8-0/dp/ 3006909?st=ne555	\$0.57	\$0.56		
8 Pin IC Socket	Element 14			https://au.element14.com/multicomp/spc15494/ dip-socket-8pos-2row-2-54mm-th/dp/2668408? st=8%20pin%20ic%20socket	\$0.22	\$0.22		
Switches	Digikey	B3F-4000	need 2 of these	https://www.digikey.com.au/en/products/detail/ omron-electronics-inc-emc-div/B3F-4000/63961	\$1.58	\$1.26		
Capacitor	Element 14	MC0805B224K500 A5.08MM	0.22uf 50V Multilayer ceramic	https://au.element14.com/multicomp/ mc0805b224k500a5-08mm/cap-0-22-f-50v-10- x7r/dp/2395774?CMP=i-55c5-00001622	0.16	\$0.09		
		ceramic rather that an are small, cheap and f						
Transistor	Element14	BC557	,	https://au.element14.com/multicomp/bc557b/ transistor-pnp-45v-100ma-to-92/dp/1574384? CMP=i-55c5-00001622	0.26	0.15		
Potentiometer 1M, single turn finger adjust	Element 14	3386F-1-105TLF	Not recommended as they cost \$3.52 each or \$2.45 per 100	https://au.element14.com/bourns/3386f-1-105tlf/ trimmer-1m/dp/9354603				
Better option	Aliexpress	3386F-1-105TLF		https://www.aliexpress.com/item/ 32783054938.html?spm=a2g0o. 9042311.0.0.27424c4dc3sTRo	\$0.23	\$0.23		
Kapton Tape	Altronics	1 roll will do about 300 kits	Check ebay, may be able to get it cheaper	https://www.altronics.com.au/p/t2976a-36mm-x-33m-high-temperature-polyimide- tape/	\$0.10	\$0.10		
Board	JLPCB				\$1.75	\$1.20		
Mylar bags	eBay			https://www.ebay.com.au/itm/100-x-Silver-Clear- Tough-Mylar-Stand-up-Bags-Zip-Lock-Reseal- Ziplock-Bag-13x18cm/222619551314	\$0.18	\$0.18		
Battery	еВау	30 Pack	Cheapest I could find	https://www.ebay.com.au/itm/262632889208? epid=1708133431&hash=item3d2623db78:g: 7asAAOSw2gxY0inz	\$1.27	\$1.27		

Part	Supplier	Part no	URL	Cost per	Qty \$100+	Notes	Original manufacturer and part number
			Total - Cheapest prices	\$8.00	\$6.55		

Part	
Recommended 9V PCB Mount battery holder	
Notes 1)	
2)	
3)	
Notes	
Double sided tape	
LED	
Resistors	
R1 and R4	
R2	
R3	
R5	
Note	

Part	
555 Timer	
8 Pin IC Socket	
Switches	
Capacitor	
Transistor	
Potentiometer 1M, single turn finger adjust	
Better option	
Kapton Tape	
Board	
Mylar bags	
Battery	

Part	