

EEEBot 2022 Bill of Materials

Below is a complete list of the components and parts that you will have been issued in your EEEBot kit box at the start of Week 1b.

Check what you have against this list as soon as possible and, if anything is missing, collect these from the workshop.

You will also need your Arduino NANO and USB Type A to Mini-B Cable from Week 1a.

ITEM DESCRIPTION	QUANTITY	NOTES
'EEEBot' Mainboard PCB*	1	*this will have the voltage regulator and FET (Q1) presoldered
18650 Battery	2	
Front Chassis Piece	1	Colours may vary
Rear Chassis Piece		Colours may vary
Wheel Kit	2	Type may vary *each includes 1x wheel, 1x tyre, 1x screw
Motor	2	Type/wiring may vary
Battery Holder	1	
Steering Kit Bag	1	
Rotary Encoder & Bush	2	Colours of the bush may vary
Rear Chassis Spacer	2	Colours may vary
L298N Motor Driver Chip	1	
Heatsink	1	
2-Way Terminal Block	7	
ON-OFF Switch	1	
15-Way Female Header	2	*these must be soldered in to the Arduino NANO footprint
6-Way Female Header	4	
4-Way Female Header	4	
3-Way Male Header	1	
Male MOLEX Connector	1	
LED	1	Colours may vary
220Ω Resistor (SMD)	1	
4.7kΩ Resistor (SMD)	2	
10kΩ Resistor (SMD)	6	
Fuse (F1)	1	
Fuse (F2)	1	
10μF Capacitor (THT)	2	
Diode (SMD)	8	
100nF Capacitor (SMD)	2	
3 x 8 Hole Stripboard	1	Exact size may vary
15mm Male-Female Nylon Standoff	8	
10mm Male-Female Nylon Standoff	8	
M3 x 12mm Countersunk Plastic Screw	4	

M3 x 6mm Panhead Plastic Screw	8	
M3 Plastic Nut	12	
M3 Metal Full Nut	4	
M3 Plastic Washer	6	
M3 x 8mm Countersunk Metal Screw	4	
M3 Metal Half Nut	4	
M3 x 25mm Metal Screw	4	
M3 x 12mm Panhead Metal Screw	2	
M3 Metal Locknut (with a Nylon Inner)	2	
M3 x 6mm Countersunk Metal Screw	1	*attach the heatsink to the L298 before soldering