

Parts list

No	Item name	Qty	Types	Manufacturer	Model number	Supplier	Notes	Link
1	Blade base L	1	3DP	N/A	N/A	N/A	ABS 80%	-
2	Blade base C	1	3DP	N/A	N/A	N/A	ABS 80%	-
3	Blade base R	1	3DP	N/A	N/A	N/A	ABS 80%	-
4	Wheel cover	2	3DP	N/A	N/A	N/A	ABS 80%	-
5	Rim	2	3DP	N/A	N/A	N/A	ABS 80%	-
6	Dummy Rim	2	3DP	N/A	N/A	N/A	ABS 80%	-
7	Lever	2	3DP	N/A	N/A	N/A	ABS 80%	-
8	Inner CM_L	1	3DP	N/A	N/A	N/A	ABS 80%	-
9	Inner CM_R	1	3DP	N/A	N/A	N/A	ABS 80%	-
10	Magnet Holder(Pair)	2	3DP	N/A	N/A	N/A	ABS 80%	-
11	Top_Cover_L	1	3DP	N/A	N/A	N/A	ABS 80%	-
12	Top_Cover_R	1	3DP	N/A	N/A	N/A	ABS 80%	-
13	Battery case	1	3DP	N/A	N/A	N/A	ABS 80%	-
14	Inner CB	1	3DP	N/A	N/A	N/A	ABS 80%	-
15	Rear Cover Joint L	1	3DP	N/A	N/A	N/A	ABS 80%	-
16	Rear Cover Joint R	1	3DP	N/A	N/A	N/A	ABS 80%	-
17	Control Unit Base	1	3DP	N/A	N/A	N/A	ABS 80%	-
18	Inner FC_v2	1	3DP	N/A	N/A	N/A	ABS 80%	-
19	Inner FL	1	3DP	N/A	N/A	N/A	ABS 80%	-
20	Inner FR	1	3DP	N/A	N/A	N/A	ABS 80%	-
21	Inner BL	1	3DP	N/A	N/A	N/A	ABS 80%	-
22	Inner BR	1	3DP	N/A	N/A	N/A	ABS 80%	-
23	Sensor Mount BL	1	3DP	N/A	N/A	N/A	ABS 80%	-
24	Sensor Mount BR	1	3DP	N/A	N/A	N/A	ABS 80%	-
25	Sensor Mount FL	1	3DP	N/A	N/A	N/A	ABS 80%	-
26	Sensor Mount FR	1	3DP	N/A	N/A	N/A	ABS 80%	-
27	D12d4.2t1	2	3DP	N/A	N/A	N/A	ABS 80%	-
28	Spacer_D10d6L3.6	2	3DP	N/A	N/A	N/A	ABS 80%	-
29	Motor Spacer	2	3DP	N/A	N/A	N/A	ABS 80%	-
30	Armor C	1	Laser cutting	N/A	N/A	N/A	t0.2 Spring steel	-
31	Armor L	1	Laser cutting	N/A	N/A	N/A	t0.2 Spring steel	-
32	Armor R	1	Laser cutting	N/A	N/A	N/A	t0.2 Spring steel	-
33	Cover Rear	1	CNC	N/A	N/A	N/A	CFRP t1.0	-
34	Frame Out	2	CNC	N/A	N/A	N/A	Tolerance: ±0.05mm, fit tolerance: H7, Tapped Holes, Material: Aluminum 7075	pcbway.com
35	Frame IN_L	1	CNC	N/A	N/A	N/A	Tolerance: ±0.05mm, fit tolerance: H7, Tapped Holes, Material: Aluminum 7075	pcbway.com
36	Frame IN_R	1	CNC	N/A	N/A	N/A	Tolerance: ±0.05mm, fit tolerance: H7, Tapped Holes, Material: Aluminum 7075	pcbway.com
37	Uni_Board_8x6	1	Electronic Parts	N/A	6cm*8cm	Akizuki Denshi Tsusho	Double-sided through-hole universal board 6*8	-
38	Sideboard_LR	2	Electronic Parts	N/A	AE-E-TH	Akizuki Denshi Tsusho	Double-sided through-hole glass composite universal board, E type	-
39	Fuse40A	1	Electronic Parts	N/A	1616-21	njy	40A	njy.co.jp
40	Maker nano	2	Electronic Parts	N/A	MAKER-NANO	cytron		cytron
41	Motor Driver Terai Ver	1	Electronic Parts	Terai-san	Terai-san	Terai-san	DC:5-50V,2ch AVE:50A(1ch),Peak:200A(1ch) Do not use PWM speed control for MAXON motors. This is because the PWM speed control of this board acts as a short brake when it is turned off, so doing this with a coreless motor can cause abnormal heating.	facebook
42	ROTARY DIP SWITCH 0-F	1	Electronic Parts	N/A	ERD216RSZ	N/A		amzn
43	DC DC Converter	1	Electronic Parts	Pololu	D45V5F5	Digikey	Non-Isolated PoL Module DC DC Converter 1 Output 5V 500mA 5.2V - 65V Input	digikey
44	DTC114E BJT	4	Electronic Parts	onsemi	DTC114E	Digikey	Pre-Biased Bipolar Transistor (BJT)	DTC114E/12101743
45	0.1 μF 50V MLCC	21	Electronic Parts	N/A	N/A	Digikey	0.1 μF ±10% 50V Ceramic Capacitor X7R Radial	490-8814-ND
46	1000 μF 6.3V E-Cap	1	Electronic Parts	N/A	N/A	Digikey	CAP ALUM 1000UF 20% 6.3V RADIAL	493-10951-1-ND
47	100 μF 63V E-Cap	1	Electronic Parts	N/A	EEU-FC0J101	Digikey	100 μF 6.3 V Aluminum Electrolytic Capacitors Radial, Can 1000 Hrs @ 105° C	digikey
48	Servo Extension Cable Wire	1	Electronic Parts	N/A	N/A	N/A	3-pin Line for Futaba JR RC Servo 22awg	-
49	Silicone cord 14AWG	1	Electronic Parts	N/A	3A7A	KKHOBBY.COM		kkhobby
50	Silicone cord 16AWG	1	Electronic Parts	N/A	3A7B	KKHOBBY.COM		kkhobby
51	Anderson Connector 1327Red	5	Electronic Parts	N/A	1327	Powerwerx		powerwerx
52	Anderson Connector 1327Black	5	Electronic Parts	N/A	1327G6	Powerwerx		powerwerx
53	Anderson Connector Contact 15Amp	4	Electronic Parts	N/A	1332	Powerwerx		powerwerx
54	Anderson Connector Contacts 30Amp	6	Electronic Parts	N/A	1331	Powerwerx		powerwerx
55	1x3 Pin Header	12	Electronic Parts	N/A	N/A	N/A	01x03, 2.54MM	-
56	1x3 Pin Socket	20	Electronic Parts	N/A	N/A	N/A	01x03, 2.54MM	-

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57	1x4 Pin Header	2	Electronic Parts	N/A	N/A	N/A	01x04, 2.54MM	-
58	1x4 Pin Socket	2	Electronic Parts	N/A	N/A	N/A	01x04, 2.54MM	-
59	1x6 Pin Header	1	Electronic Parts	N/A	N/A	N/A	01x06, 2.54MM	-
60	1x6 Pin Socket	1	Electronic Parts	N/A	N/A	N/A	01x06, 2.54MM	-
61	1x7 Pin Header	1	Electronic Parts	N/A	N/A	N/A	01x07, 2.54MM	-
62	1x7 Pin Socket	1	Electronic Parts	N/A	N/A	N/A	01x07, 2.54MM	-
63	2x3 Pin Header	2	Electronic Parts	N/A	N/A	N/A	02x03, 2.54MM	-
64	2x4 Pin Header	4	Electronic Parts	N/A	N/A	N/A	02x04, 2.54MM	-
65	2x4 Pin Socket	4	Electronic Parts	N/A	N/A	N/A	02x04, 2.54MM	-
66	Hook Up Wire	1	Electronic Parts	N/A	N/A	amazon	AWG28, PTFE, CB to MB	https://a.co/d/60SYyws
67	SG08M38T	4	Gear	JSUMO	JS21025	JSUMO		jsumo.com
68	SG08M18T40TUL	2	Gear	JSUMO	JS19370	JSUMO		jsumo.com
69	0.8 Module (32 Pitch) 14T Pinion Gear - Ø6mm	2	Gear	JSUMO	JS18594	JSUMO		jsumo.com
70	Magnet 15x2	9	Magnet	SUNGYO SUPPLY	N/A	SUNGYO SUPPLY	Neodymium magnets, Diameter:15mm, Height:2mm	e-sangyo
71	Magnet 18x5	20	Magnet	SUNGYO SUPPLY	N/A	SUNGYO SUPPLY	Neodymium magnets, Diameter:18mm, Height:5mm	e-sangyo
72	Shaft_D4L200	7	Shaft	N/A	N/A	JLCCMC		JLCCMC
73	Shaft_D3L150	2	Shaft	wilco.jp	SRU-3150	wilco.jp		wilco.SRU-3150
74	Shaft_D3L32	3	Shaft	wilco.jp	SRU-332	wilco.jp		wilco.SRU-332
75	Shaft_D6L56	2	Shaft	N/A	N/A	JLCCMC		JLCCMC
76	RC Controller Receiver	1	Controller	KONDO	MC-8,MR-8	N/A		kopropo.co.jp
77	GP2Y0E03	2	Sensor	SHARP	GP2Y0E03	digitey		digitey
78	pololu-digital-distance-sensor-irs17a	1	Sensor	Pololu	4071	Pololu		pololu.com
79	PM-U25	1	Sensor	Panasonic	PM-U25	MonotaRo		MonotaRo
80	Maker Object Sensor	6	Sensor	N/A	MAKER-OBJECT	cytron		cytron.io
81	Micro Line Sensor ML1	4	Sensor	JSUMO	JS16249	JSUMO		jsumo.com
82	Robot Start Module JPN	1	Sensor	JSUMO	JS15878	JSUMO		jsumo.com
83	Robot Start Module ROM	1	Sensor	RoboManiacsSHOP	N/A	RoboManiacsSHOP		robomaniacs.ro
84	Tire	2	Wheel	gomu.jp	10167-1175-1	gomu.jp	Natural Rubber (NR) Pipe Hardness 60	gomu.jp/
85	Flat head screw_M2.6L10 No.0 Type 1	39	Bolts/Nuts	N/A	M2.6 × 10.0	MonotaRO	JIS Cross Head,D:4.5mm,L:10mm	MonotaRo
86	Flat head screw_M2.6L9 No.0 Type 1	3	Bolts/Nuts	N/A	M2.6 × 9.0	N/A	JIS Cross Head,D:4.5mm,L:9mm .Remake from L10.0mm to L9,0mm	-
87	Flat head screw_M2.6L5 No.0 Type 3	7	Bolts/Nuts	N/A	M2.6 × 5.0	MonotaRO	JIS Cross Head,D:4.5mm,L:5mm	MonotaRo
88	M2.5L8_FT	12	Bolts/Nuts	N/A	FF-2508N	wilco.jp		wilco
89	Pan head screw M3L6	4	Bolts/Nuts	N/A	F-0306N	wilco.jp		wilco
90	Set screw M3L4	24	Bolts/Nuts	N/A	FHS-0304EB-F	wilco.jp		wilco
91	Pan head screw B tight 2x6	10	Bolts/Nuts	N/A	FBP-0206EB	wilco.jp		wilco
92	Nut_M2.6 Type 3	22	Bolts/Nuts	N/A	FNT-26N-3	wilco.jp	JIS,D:5.0mm,H:1.6mm	wilco
93	Low head screw_M2.6L10	6	Bolts/Nuts	N/A	FLA-2610E	wilco.jp		wilco
94	LiPo Battery 2S 1300mAh	1	Battery	N/A	N/A	N/A	Kypom K6 7.4V 1300mAh 35C70C	-
95	LiPo Battery 3S 1300mAh	2	Battery	N/A	N/A	N/A	Kypom K6 11.1V 1300mAh 35C70C	-
96	No5 blade_200x23x2	1	Blade	N/A	817	sumozade		sumozade
97	No5 blade_200x23x2(Second hand)	3	Blade	N/A	N/A	N/A	Used No5 blade	-
98	DDL-1260ZZ	2	Bearing	MNB	DDL-1260ZZ	MonotaRo		MonotaRo
99	DDL-1260ZZ	2	Bearing	MNB	DDL-1260ZZ	MonotaRo		MonotaRo
100	DDR-1640HH	8	Bearing	MNB	DDR-1640HH	MonotaRo		MonotaRo
101	R-1140ZZ	8	Bearing	MNB	R-1140ZZ	MonotaRo		MonotaRo
102	DDL-1030ZZ	4	Bearing	MNB	DDL-1030ZZ	MonotaRo		MonotaRo
103	MOTOR	2	MOTOR	MAXON	RE35/15V	MAXON		-
104	High Strength Threadlocker Red	1	Adhesive	Permatex	27110	Permatex	Adhesive for connecting gears and shafts. Either one is fine.	permatex orange-book
105	Aron Alpha EXTRA	1	Adhesive	TOAGOSEI	#04612	KONISHI	Super glue for attaching tire rubber to rims. Either one is fine.	aronalpha

How to get the parts

If you live in Japan, you should be able to get most of the parts without any problems. However, if you live outside of Japan, you will need to find similar parts through your own country's supply chain. Please use the links in the list to help you learn more about the parts. There are also services available that will ship items from Japanese online shops overseas on your behalf, so please use them if necessary. [Click here for International forwarding service](#)

About M2.6 Screws and Nuts

If it is difficult to obtain M2.6 screws and nuts, M2.5 screws and nuts can be used instead, but please note the following points. This design uses the thin type of M2.6 nut (thickness: 1.6mm). So, if you want to use M2.5 nut, please choose the thin type. If you can't get the thin type nut, please edit the 3D model to fit the nut size or file the nut.