

**Gear Alternative**

Number	Description	B9 Part #	Dimensions	Weight	Vendor	Vendor Part #	Unit Cost	Quantity Needed	Unit	Price
1	Adhesive, Permabond, Black magic 737	B9- BWM- X0004	1 oz.		Curell	EC0460	\$0.16	1	(1) one oz. tube @ 16.12	\$ 0.16
2	Socket, Cigarette, Inline, plastic	B9- BWM- X0006			DIGI- KEY	ZA2010-ND	\$0.02	1	pk of 100 min 1.55	\$ 0.02
3	Holder, led, Panel, Black nylon	B9- BWM-G0001	5mm.		DIGI- KEY	67- 1332- ND	\$0.27	1	pk of 1000 min .27	\$ 0.27
4	Motor Connection wire	B9- BWM- X0025	20 AWG, 100 Feet		DIGI- KEY	C2040R- 100- ND	\$0.24	1.25	100 ft. min 24.36	\$ 0.30
5	GENERATOR BOX	B9- BWM-G0002			HARBEC	A694	\$0.06	1	pk of 100	\$ 0.06
6	GENERATOR COVER, no holes, right side	B9- BWM-G0003			HARBEC	A695 B	\$0.05	1	pk of 100	\$ 0.05
7	GENERATOR COVER, with holes, left side	B9- BWM-G0004			HARBEC	A695 A	\$0.05	1	pk of 100	\$ 0.05
8	LARGE GEAR	B9- BWM-G0005			HARBEC	A614	\$0.05	1	pk of 100	\$ 0.05
9	GENERATOR HANDLE (modified A 615)	B9- BWM-G0006			HARBEC	F-015	\$0.06	2	pk of 100	\$ 0.12
10	GEAR SLEEVE	B9- BWM-G0007			HARBEC	A736	\$0.03	1	pk of 100	\$ 0.03
11	Pail, Black	B9- BWM-G0008	0.07" Thick		Kaplan	F-016	\$2.69	1		\$ 2.69
12	PVC pipe (modified of part 23971)	B9- BWM-G0009	3/4" SCH. 40 X 10'		LOWES	F-017	\$0.02	4	2.18 per 10ft	\$ 0.07
13	Encore Plastics 5 gal. Snap on Lid	B9- BWM-G0010	5 Gal		LOWES	276477	\$1.97	1		\$ 1.97
14	MOTOR	B9- BWM-G0011			Mabuchi	RS-555VC-3754	\$4.00	4		\$ 16.00
15	SHCS, steel	B9- BWM-G0012	8-32 X1 1/8		Mcmaster- Carr	91251A183	\$0.34	1	pk of 25 min 8.51	\$ 0.34
16	Nylon Insert hex Lock Nut, Zinc Plated	B9- BWM-G0013	8- 32 Nylock Nut		Mcmaster- Carr	90631A009	\$0.02	4	pk of 100 min2.35	\$ 0.09
17	SHCS, steel	B9- BWM-G0014	8-32 X 2 1/2		Mcmaster- Carr	91251A207	\$0.38	8	pk of 25 min 9.62	\$ 3.08
18	SHCS, steel	B9- BWM-G0015	M3 thread, 10mm long X, 0.5mm		Mcmaster- Carr	91290A115	\$0.05	8	pk of 100 min 4.65	\$ 0.37
19	Flat washer, steel, zinc plated	B9- BWM-G0016	M3, 7mm OD x,0.45- 0.55mm thick		Mcmaster- Carr	91166A210	\$0.02	9	pk of 100 min 1.55	\$ 0.14
20	Lock washer, steel, zinc plated	B9- BWM-G0017	M3, 5.6mm OD x,0.9mm thick		Mcmaster- Carr	911908510	\$0.02	8	2.17 per 100	\$ 0.17
21	DIRECTIONAL ARROW	B9- BWM-G0018	1 1/8" x 7"		Mcmaster- Carr	1605T231	\$0.49	1	pk of 20 min. 9.82	\$ 0.49
22	Plastic Loop Clamp	B9- BWM-G0019	3/16" X 3/4, 3/8 wide, 3/64 thick		Mcmaster- Carr	8876T35	\$0.05	1	pk of 100 min 5.40	\$ 0.05
23	Triangular Shank Phillips Pan heat screw, zinc plated	B9- BWM-G0020	1/4" long x 4-20 Thread		Mcmaster- Carr	90380A106	\$0.07	3	pk of 100 min 6.50	\$ 0.20
24	Triangular Shank Phillips Pan heat screw, zinc plated	B9- BWM-G0021	3/8" long x 4-20 Thread		Mcmaster- Carr	90380A108	\$0.07	1	pk of 100 min 6.80	\$ 0.07
25	Square Nut, Zinc Plated	B9- BWM-G0022	8- 32 square Nut,11/32 x 1/8		Mcmaster- Carr	94855A216	\$0.02	1	pk of 100 min 2.08	\$ 0.02
26	Dow 748, silicone Sealer	B9- BWM- X0002	3 oz. Tube		Mcmaster- Carr	74915A654	\$0.10	1	10.15 of 100	\$ 0.10
27	Generator Control Board	B9- BWM-G0023			Polyfusion	NEED NUMBER	\$27.00	1		\$ 27.00
28	Black 2 conductor cord	B9- BWM- X0003	18 AWG, 2 cond		SIMCONA	F-006	\$0.00	3.5 Feet	min. 500 ft. .75/ft	\$ 0.01
29	Pinion wire stock (modified out of part A1C 9-N32008, 22 per foot)	B9- BWM-G0024	32 pitch, 8 teeth, 14.5" Press angle, 0.313" OD		Stock Drives	F-018	\$0.50	4	36 per 6 ft	\$ 2.25
30	GREASE	B9- BWM-G0025	500 grams, 17.64 oz.		TAI Lubricants	RYEOLUBE 362 HM	\$0.23	1	1 lb. jar 22.95	\$ 0.23
31	Added Gear	B9- BWM-XXXXX					\$ 0.10	1	9.54 for 100	\$ 0.10
33	Crank	B9- BWM-XXXXX								
									Total Generator Cost	\$ 56.55
	<b>Seating Materials</b>									
33	Additional plastic for mfg of pedals or procure pedals	B9- BWM-XXXXX								
34	Wood, Pine	B9- BWM-XXXXX	2X4		Home Depot		1.68	4 ft	3.37 per 8 ft	\$ 1.68
35	Wood Screws	B9- BWM-XXXXX			Home Depot		0.05	14	9.37 per 186	\$ 0.05
36	Wooden Dowel	B9- BWM-XXXXX	1" Diameter		Home Depot		2.34	18"	4.68 per 36"	\$ 2.34
37	Metal Square Tubing	B9- BWM-XXXXX	1/16" Aluminium				5.57	36"	5.57 per 36"	\$ 5.57
									Total Seat cost	\$ 9.64
									Total cost	\$ 66.19