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BOM Part List

Part Number	Quantity	Part Name	Description	Phase	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Part Name 1	Vendor 1	Vendor Part Number 1	Vendor Part Name 1
MWT-0110	2	Acrylic Sheet	A 3" by 5" by .220" sheet of acrylic used to make faces of the generator	In Production						
MWT-0210	4	840 Screw	Holds the frame of generator toghether in conjunction with 840 Bolts	In Production				Home Depot		
MWT-0220	6	840 Bolts	Holds the frame of generator toghether in conjunction with 840 Screws	In Production				Home Depot		
MWT-0310	2	Acetal Open Bearings with Stainless Steel Balls	Creates a smooth fictionless contact between Precision Shaft and Acrylic Sheet	In Production	McMasters-Carr	6455K2	Acetal Open Bearings with Stainless Steel Balls	http://www.mcmaster.com/	6455K2	Acetal Open Bearings with Stainless Steel Balls
MWT-0311	2	Type 440C Stainless Steel Flanged Double-Shielded Ball Bearings	Creates a smooth fictionless contact between Precision Shaft and Acrylic Sheet	In Design	McMasters-Carr	4262T17	Type 440C Stainless Steel Flanged Double-Shielded Ball Bearings	http://www.mcmaster.com/	4262T17	Type 440C Stainless Steel Flanged Double-Shielded Ball Bearings
MWT-0410	1	Precision Shaft	Transfers the rotational torque from propeller to magnet	In Production	McMasters-Carr	1263K65	Type 316 Stainless Steel Shaft	http://www.mcmaster.com/	1263K65	Type 316 Stainless Steel Shaft
MWT-0510	1	Neodymium magnet	Generates energy when spun in between 2 Copper Wire coils	In Production						
MWT-0610	1	11 X 7 APC Slowflyer Propeller	Produces rotational torque when presented with wind and spins the Neodymium Magnet	In Production	APC Propellers	LP11070SF	10x7 Slo Flyer propeller	Hobby Lobby International Inc.	P11070SF	11 X 7 APC Slowflyer Propeller
MWT-0611	1	10 X 7 APC Slowflyer Propeller	Produces rotational torque when presented with wind and spins the Neodymium Magnet	In Design	APC Propellers	LP10070SF	11x7 Slo Flyer propeller	Hobby Lobby International Inc.	P10070SF	10 X 7 APC Slowflyer Propeller
MWT-0612	1	11 X 7 Beech Wood EP-Propeller	Produces rotational torque when presented with wind and spins the Neodymium Magnet	Unreleased						
MWT-0613	1	10 X 7 Beech Wood EP-Propeller	Produces rotational torque when presented with wind and spins the Neodymium Magnet	Unreleased						
MWT-0710	5	4001 Diode	4 of which are used to become a rectifier to change from AC to DC and 1 of which prevent backward energy leaks	In Production						
MWT-0810	1	100µF Capicator	Smooths out voltage for LED used with . 1uf Capacitor	In Production						
MWT-0820	1	1µF Capicator	Smooths out voltage for LED	In Production						
MWT-0830	1	.1µF Capicator	Smooths out voltage for LED used with 100uf Capacitor	In Production						
MWT-0910	1	LM317 Voltage regulator	Cuts voltage and prevents overvolatge in the circuit from a spike in wind	In Production						
MWT-1010	1	330kΩ Resistor	Used for part of LM317 to regulate voltage	In Production						
MWT-1011	1	1.5kΩ Resistor	Used for part of LM317 to regulate voltage	In Design						
MWT-1110	1	100Ω Resistor	Used with LED	In Production						
MWT-1210	1	B10kΩ Potentiometer	Used for part of LM317 to regulate voltage and fine tune for correct voltage	In Production						
MWT-1220	1	B5kΩ Potentiometer	Used to measure voltage produced	Unreleased						
MWT-1310	1	B1kΩ Potentiometer	Used to measure voltage produced	Unreleased						
MWT-1410	14	LED	Used for proof-of-concept and shows voltage is being produced	In Production						
MWT-1510	1	22-Gauge Wire	Used to connect components toghether as a circuit	In Production						
MWT-1610	1	Perforated Board	Used to connect components toghether as a circuit	In Production						
MWT-1710	444 Ft	Enamel Coated Magnet Wire #26	Used as part of electromagnetic coils	In Production	FAY Electric Wire Corp.	MW-MC5516-039	26 HTAIH Natural			
MWT-(Cat.__ __, Part __, Revision __										

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