

Designator	Description	Comment	Supplier	Supply #	Quantity
IC1	14M2 PICAXE Microcontroller	14M2	techsupplies.co.uk	AXE017M2SM	1
IC2	MAXX1555 - Lithium Ion/ Polymer USB Battery Charger	Battery Charger	Digikey	MAX1555EZK+TCT-ND	1
M1,M2	Small Motor	Motor	Solarbotics	rpm2	2
Q1,Q2	3904 NPN Transistor	Motor Control	Jameco	94967	2
R1,R2	3.3k Ohm 1/10W SMD Resistor	Motor Control	Jameco	1986932	2
R3,R4,R8	10k Ohm 1/10W SMD Resistor	Buttons Res, 14M2 Prg	Jameco	1987468	3
R5,R6	1k Ohm SMD Resistor 1/10W	Button Resistors	Jameco	1877824	2
R7	180 Ohm SMD Resistor 1/10W	Eye Resistor	Jameco	1878034	1
R9	22k Ohm SMD Resistor 1/10W	14M2 Prg	Jameco	1878165	1
R11	150 Ohm SMD Resistor 1/10W	Max1555 LED	Jameco	1885875	2
R12	4.7k Ohm SMD Resistor 1/10W	IR Reciever Resistor	Digikey	P4.7KGCT-ND	1
R10	127 OHM 1/8W 1% 0805 SMD	IR LED Current Limiter	Digikey	P127CCT-ND	1
C1,C2,C3	CAP CER 1UF 16V 10% X5R 0402	Max1555 Caps	Digikey	445-4978-1-ND	3
C4	CAP CER 0.1UF 16V Y5V 0402	Decoupling Cap	Digikey	445-1268-1-ND	1
C5	CAP CER 4.7uF	IR Receiver Filter Cap	Digikey	445-8023-1-ND	1
IR	IC IR RCVR MOD 38KHZ 2DOME SMD TSOP85238TR	IR Receiver	Digikey	751-1391-1-ND	1
USB	Micro-USB Female Connector	USB Receptacle	Sparkfun	PRT-08533	1
S1	Right Angle Switch	On/Off	Sparkfun	COM-10860	1
Battery	Polymer Lithium Ion Battery - 3.7V 110mAh	Battery	Sparkfun	PRT-00731	1
LED1,LED2	Green/Red LED	Eyes	Jameco	1556300	2
LED3	Red LED SMD Right Angle	Max1555 LED	Jameco	1557054	1
LED4	IR LED 3MM GAA1AS WATER CLR REV SMD	Wide Angle IR LED	Digikey	1080-1356-1-ND	1
LS	BUZZER PIEZO 25VP-P SMD	SMD Piezo Speaker	Digikey	490-4683-1-ND	1
D1, D2	DIODE SCHOTTKY 40V 1A SMA	Reverse Bias Protection	Digikey	MBRA140TRPBFCT-ND	2
D3	DIODE SWITCH 100V 150MW SOD-523	14M2 C.3 Serial Protection	Digikey	1N4148WTDICT-ND	1
JP1	Holes for battery connection	Battery Connector	Sparkfun		
FRTFOOT	Front wire foot				
BCKFOOT	Back wire foot				

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