QuickBot MOOV v2 Parts

Order Item	Parts Contained	Order Quantity	Part Quantity Per Order	Needed Part Quantity	Price Per Unit	Total Part Cost	Vender Link	Octopart Link
Magician Chassis	-	1	-	-	$ 14.95	$ 14.95	SparkFun	
	Top Chassis Plate	-	1	1	-	-	-	
	Bottom Chassis Plate	-	1	1	-	-	-	
	Motor Holder	-	4	4	-	-	-	
	Speed Board Disc	-	2	2	-	-	-	
	Motor	-	2	2	-	-	-	
	Omni Wheel	-	1	1	-	-	-	
	Wheel	-	2	2	-	-	-	
	L25 Spacer	-	8	6	-	-	-	
	L10 Spacer	-	4	4	-	-	-	
	M3*30 Screw	-	4	4	-	-	-	
	M3*6 Screw	-	24	20	-	-	-	
	M3 Nut	-	8	4	-	-	-	
Dual Wheel Watcher Rotation Encoder Kit		1	-	-	$ 39.95	$ 39.95	Solarbotics	
	Wheel Encoder	-	2	2	-	-	-	
	Encoder Ribbon Cable	-	2	2	-	-	-	
	Female Molex Crimp Pins	-	10	10	-	-	-	
	5-pin Molex Header	-	2	2	-	-	-	
	Encoder Disc Sticker	-	2	2	-	-	-	
Compact USB Wi-Fi Adapter with 4" Antenna	Wifi Dongle	1	1	1	$ 12.95	$ 12.95	Logic Supply	
DC Barrel Jack to 2-Pin Terminal Block Adapter	DC Barrel Plug	1	1	1	$ 1.95	$ 1.95	Pololu	
400-Point Breadboard	Breadboard	1	1	1	$ 3.75	$ 3.75	Pololu	
350-Piece Wire Kit with Adjustable Case		1	-	-	$ 11.95	$ 11.95	Pololu	
	4/10" Breadboard jumper wires (orange)	-	25	6	-	-	-	
	5/10" Breadboard jumper wires (yellow)	-	25	4	-	-	-	
Sharp GP2Y0A21YK0F Analog Distance Sensor 10-80cm	IR Sensors	5	1	5	9.95	$ 49.75	Pololu	
3-Pin Female JST PH-Style Cable (30 cm) with Male Pins for 0.1" Housings	3-pin Female JST IR Sensor Connector	5	1	5	1.25	$ 6.25	Pololu	
2-Pin Female JST PH-Style Cable (14cm)	2-pin Female Larger JST Volt Reg Connector	2	1	2	0.75	$ 1.50	Pololu	
Rocker Switch: 3-Pin, SPDT, 10A	3-pin Rocker Switch	1	1	1	0.75	$ 0.75	Pololu	
0.100" (2.54 mm) Breakaway Male Header: 1x40-Pin, Straight	6-pin Male Breakaway Header Pins	1	6	2	0.99	$ 0.99	Pololu	
Wires with Pre-crimped Terminals 50-Piece Rainbow Assortment M-M 6"	6" M-M Jumper Wires	1	50	18	$ 9.95	$ 9.95	Pololu	
Male Crimp Pins for 0.1" Housings 100-Pack	0.1" Male Crimp Pins	1	100	61	$ 7.95	$ 7.95	Pololu	
0.1" (2.54mm) Crimp Connector Housing: 1x1-Pin 25-Pack	1x1-pin 0.1" Crimp Connect Housing	1	25	17	$ 0.59	$ 0.59	Pololu	
0.1" (2.54mm) Crimp Connector Housing: 1x2-Pin 25-Pack	1x2-pin 0.1" Crimp Connect Housing	1	25	18	$ 0.69	$ 0.69	Pololu	
0.1" (2.54mm) Crimp Connector Housing: 1x3-Pin 25-Pack	1x3-pin 0.1" Crimp Connect Housing	1	25	1	$ 0.79	$ 0.79	Pololu	
0.1" (2.54mm) Crimp Connector Housing: 1x5-Pin 10-Pack	1x5-pin 0.1" Crimp Connect Housing	1	10	1	$ 0.69	$ 0.69	Pololu	
Machine Screw: #4-40, 1/2" Length, Phillips (25-pack)	1/2" 4-40 Screw	1	25	16	$ 0.99	$ 0.99	Pololu	
Machine Screw: #4-40, 1/4" Length, Phillips (25-pack)	1/4" 4-40 Screw	1	25	10	$ 0.99	$ 0.99	Pololu	
Machine Hex Nut: #4-40 (25-pack)	4-40 Nut	1	25	22	$ 0.99	$ 0.99	Pololu	
Angle Bracket - 4-40	4-40 Angle Bracket	10	1	10	$ 0.50	$ 5.00	SparkFun	
Resistor Kit - 1/4W (500 total)		1	-	-	$ 7.95	$ 7.95	SparkFun	
	20K Ohm Resistor (red-black-orange-gold)	-	25	5	-	-	-	
	10K Ohm Resistor (brown-black-orange-gold)	-	25	5	-	-	-	
BeagleBone Black	BeagleBone Black	1	1	1	$ 44.95	$ 44.95	SparkFun	http://octopart.com/bb-bblk-000-circuitco+electronics-26478322
H-Bridge Motor Driver 1A	H-Bridge	1	1	1	$ 2.35	$ 2.35	SparkFun	http://octopart.com/sn754410ne-texas+instruments-1320
Logic Level Converter Bi-Directional	Logic Level Converter	1	1	1	$ 2.95	$ 2.95	SparkFun	
"Uh-oh" Battery Level Indicator Kit	Uh-Oh Battery Indicator Board	1	1	1	$ 5.95	$ 5.95	SparkFun	
DC-DC LM2596 Converter Adjustable Step Down Regulator 1.2-35V		2	-	-	$ 2.20	$ 4.40	Ebay	
	Voltage Regulator	-	1	2	-	-	-	
	2-pin Female Larger JST Volt Reg Connector	-	2	4	-	-	-	
10 pairs JST Plug Connector RC Lipo Battery Male/Female	Male Red Battery Connectors	1	10	2	$ 3.31	$ 3.31	Amazon	
Anytime Tools 127 pc Heat Shrink Wire Wrap	1/2" Heat Shrink Tubing	1	127	2	$ 9.45	$ 9.45	Amazon	
TEKTON 6235 Assorted Cable Ties, 200-Piece	Zip Ties	1	200	3	$ 6.20	$ 6.20	Amazon	
Velcro Brand Sticky Back Coins	1sq-in Velcro	1	15	2	$ 2.49	$ 2.49	Amazon	
Turnigy 1000mAh 3S 25C Lipoly Battery	LiPo Batteries	1	15	2	$ 3.49	$ 3.49	HobbyKing	
Lipo Charger	LiPo Charger	1	1	1	$ 11.25	$ 11.25	HobbyKing	

QuickBot Total (w/ IR Sensors)		52		303		$ 278.11		

Tools

Order Item	Parts Contained	Order Quantity			Price Per Unit	Total Part Cost	Vender Link	
Crimping Tool: 0.1-1.0 mm² Capacity, 16-28 AWG	Crimper	1			$ 34.95	$ 34.95	Pololu	
Stanley 84-096 5-Inch Needle Nose Plier	Needle Nose Pliers	1			$ 4.00	$ 4.00	Amazon	
Dr. Meter¨ 60 Watts High-performance Soldering Iron	Soldering Iron	1			$ 9.00	$ 9.00	Amazon	
Lead-Free Solder 5' Roll - LF-99	Solder	1			$ 4.00	$ 4.00	Amazon	
Feibao tools Wire Cutter Plier Yellow 4.5 Inch 125 Mm	Wire Cutters	1			$ 6.50	$ 6.50	Amazon	
Irwin Industrial Tools 2078300 8-Inch Self-Adjusting Wire Stripper	Wire Strippers	1			$ 19.98	$ 19.98	Amazon	

Tools Total		4				$ 78.43		

Misc.

Order Item		Order Quantity			Price Per Unit	Total Part Cost	Vender Link	Octopart Link
SD card		1			$ 6.50	6.50	Amazon	http://octopart.com/102-adafruit+industries-28107416
DC Power Supply		1			$ 5.95	5.95	SparkFun	http://octopart.com/276-adafruit+industries-29094024
Micro-HDMI Cable		1			$ 6.95	6.95	Adafruit	http://octopart.com/1358-adafruit+industries-32978384
Ethernet Cable		1			$ 1.55	1.55	Amazon	
DC Barrel Jack Plug		1			$ 0.76	0.76	SparkFun	http://octopart.com/1328-adafruit+industries-32978357
DC Wall Power Supply		1			$ 1.46	1.46	Amazon	
Multimeter		1			$ 11.46	11.46	SparkFun	

Misc Total		7				$ 34.63		