

ROSCO b1.0

item	info	Link	qty	qty per bot
COMPONENTS				
Allied Express				
Nylon Bushing	for rear axles	Allied Express	1	2
Adafruit				
Arduino Uno	mcu	Adafruit	1	1
Adafruit Motor Shield	Motor/Servo Power	Adafruit	1	1
Amazon				
SANOXY USB 2.0 Female to Micro USB Male OTG On-The-Go Cable Adapter	android	Amazon	1	1
170-point Mini Breadboard w/ Jumper Wires	develop platform	Amazon	1	1
Non-slip gel sticky pad	for Android phone	Amazon	5	1
Battery Space				
8.4V 800mAH NiMH Battery Pack	Data Sheet	Battery Space	1	1
Smart Charger (0.6 A) for 6V-12V NiMH/ NiCd Battery Pack		Battery Space	1	1
NiMH Rechargeable Battery: 9V NiMH 250mAh		Battery Space	1	1

Mini Female Tamiya Connector with 16 awg Silicon wire		Battery Space	1	1
Digikey				
DPDT Mini Slider Switch	Power On/Off	Digikey	1	1
22K Resistor	Fuel Gauge	Digikey	1	2
12K Resistors	Fuel Gauge	Digikey	1	2
BAT43 Small Signal Schottky Diode	Analog Input Clamping	Digikey	1	2
0.01 uF ceramic capacitor	Noise Filter	Digikey	1	2
HobbyKing				
Towerpro MG996R 10kg	Pan/Tilt	Hobby King	1	2
UBEC 3A/5v	Servo Power	Hobby King	1	1
Pololu				
Plastic Gearmotor 90-Degree Output	120:1 or 200:1	Pololu	1	2
USB Firewire				
9" USB 2.0 A to Right Angle B Cable**	arduino	USB Firewire	1	1
VXB				
608ZZ Shielded Miniature Ball Bearings	scan platform mast	VXB	1	2

Voodoo Lab				
9V Battery Snap Cable and 2.1mm Right Angle Barrel Cable	Clean Battery supply	Voodoo Lab	1	1
Component subtotal				
MOUNTING HARDWARE				
McMaster Carr				
#2 5/16 phillips screw	for mounting wheel to DC motor	McMaster Carr	100	3
m3x8 Socket Head CAP Screw		McMaster Carr	100	8
m3x12		McMaster Carr	100	18
m3x16		McMaster Carr	100	5
m3x30		McMaster Carr	100	4
m5x20	rear axle	McMaster Carr	100	2
m3 nut		McMaster Carr	100	32
m5 nut		McMaster Carr	100	2
m5 flat washers		McMaster Carr	100	4
m3 flat washers		McMsster Carr	100	7
Mounting Hardware subtotal				
PLASTIC				
Matter Hackers				
ABS Filament - 1.75mm - Product No. 32021		Matter Hackers	1 kg	1

PLA Filiment - 1.75mm	1	Matter Hackers	1 kg	
		Length (m)	m/kg	
Plastic Subtotal		118.16	399.76	
Miscellaneous Parts				
22 guage wire				
Heat-Shrink Tubing				
Solder				
Nylon Wire Ties				
Mini Male Tamiya Connector				
Tools				
Soldering Iron				
Crimpers				
Wire Cutters				
Hex and Screw Drivers				
Multimeter				