Bill of materials for stepper motor robot

1) Two stepper motors,   
- size 30 to 50 mm square by 30 to 50 wide  
- 5 mm shaft  
- voltage 6 to 12 volts depending on your battery  
Examples  
Jameco Part no. 237519, 42BYG017-R, $21.95 each   
Jameco Part no. 238538 42BYGH404-R, $21.95 each  
www.AllElectronics.com, SMT-373U, 103-591-0155, $9.50 used

2) three pieces of 1 by 2in wood for base,   
- backbone is about 9 inches long  
- front and back are about 5 inches long

3) hardware  
- 4 wood screws to attach front and back to backbone  
- 2 screws to attach sensor  
- 2 screws to attach protoboard  
- 2 bolts and nuts to attach two motors. Must fit into mounting holes of the motor, and belong enough to go through backbone and two motors.

4) Wheels and hubs  
- Tamiya 70144 Ball Caster Kit   
- Two wheels and two hubs to match the diameter of the motor shaft  
www.robotmarketplace.com  
http://www.robotshop.com

5) two snap action roller switches  
www.bgmicro.com SWT1117  
www.AllElectronics.com, SMS-231, SMS-197

6) battery  
- 8.4V NiMH or   
- 11.1V LiIon

7) electronics  
- two L293 motor drivers  
-16 1N914 diodes   
-2 10uF tantalum caps  
- 7805 regular  
-2 10k resistors