#### **Building Instructions: Basic Driving and Steering Robot**



Basic Design from: "Building Robots with Lego Mindstorms" Modifications by: David Wang Diagrams and Instructions by: David Wang Diagrams and Instructions generated by: MLCad, LPub, L3P, and POVRay

#### These are the parts you will need to build this robot:



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Step 3:



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# Step 4:





Step 5:



#### Step 6:



#### **Step 7:**



#### Step 8:



Step 9:



## **Step 10:**



### **Step 11:**



#### **Step 12:**



#### **Step 13:**



## **Step 14:**



# **Step 16:** (Note the yellow rubber band – this part may be hard to put on. It can be found in your kit.)



# **Step 18: (The 2x2 blocks displayed here represent the ends of Lego wires)**





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**Step 20:** x3 **x1 x2 Step 21: x2 x2 x1** 



**Step 24:** (Attach a rubber band to the half bushing that is not triggering the switch. This can be tricky. This rubber band should have a certain tension to prevent false triggering due to bouncing while pulling the extension bumper down and into the switch)



#### **Step 26:** (Connect the wires from steps 13 & 14) Note: The direction and order of the wire connections matter

