2015 Robot Sensors Sign-out Sheet   *sponsored by Tivoli*

All team members are responsible for the safe record of the kit contents

Last Name: _____ **First Name:** _____ **Signature:** _____

Last Name: _____ **First Name:** _____ **Signature:** _____

Last Name: _____ **First Name:** _____ **Signature:** _____

Last Name: _____ **First Name:** _____ **Signature:** _____

This is part of the robot kit and will be returned with the robot kit
BG Micro, www.bgmicro.com,
_____1, MOT1050, Geared DC motor ($7.95 each) *(1 more in robot kit)*

Parallax, www.parallax.com
_____1, Ultrasonic **Ping)))**, in a bag, $29.95 *(3 more of the same type in robot kit)*
or   _____1, Ultrasonic **HC-SR04**, in a bag, $2.99 *(3 more of the same type in robot kit)*

Sparkfun, www.sparkfun.com (most students took one of these as part of Lab 4)
_____1, GP2Y0A21YK IR range sensor, SEN-00242 ($13.95 each) *(3 more in robot kit)*
_____1, Jumper wires, SEN-08733 ($1.50 each) with male-male header to mount to protoboard *(3 more in kit)*

Stuff you do not have to give back
_____ 1, Jameco Part no. 206587, 6.8 x 4.3 inch protoboard

_____ 2, Jameco, #231546 0.156 in header (for two DC motors)

_____ 2, MCP2551 CAN driver chips

_____ 2, 100 ohm resistors (should have been 120 ohms)

_____ 1, 2 by 40 male headers, snap into four 2 by 10 headers for two LaunchPads

_____ 1, 2-pin 0.1in header for power in from battery (do not cut any battery wires)

_____ 1, 7805 regulator (8.4V in, 5V out)

_____ 2, 4.7uF tantalum caps for regulator

_____ 8, 1N914 diodes for motor driver interface, 1N914B-ND

_____ 1, 16-pin socket (can be used for L293, get L293 from 2nd floor and return it at the end of the semester)

Other connectors to get as needed
1 by 3 header for IR sensor
1 by 4 header for ultrasonic sensor
3 wire female – female cable for Ping))) sensor

Jonathan W. Valvano