

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:** _____

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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