

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

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

Last Name: _____ First Name: _____ Signature: _____

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Each robot kit check your kit for the following materials before taking it with you
Amazon.com, Erector Special Edition Anniversary Set, 643 pieces, \$109.99 each
Refer to page 3 of the Erector manual for a photo of the major components.

- ___ Case,
 - ___ Erector manual (this is real hard to replace),
 - ___ large base, #52,
 - ___ 2 small base, #51F,
 - ___ 2 small base, #51E,
 - ___ 4 large wheels (#187C) and tires (#142R),
 - ___ 2 small tires (#155), (can be put on the little pulleys (22B3P))
 - ___ 5 tools (#34, 36C, 36D), (wrench and **four** Allen wrenches)
 - ___ 2 large pulleys (#19B) (*one needed for Lab 6*)
 - ___ 3 medium pulleys (#21P3P)
 - ___ 3 small pulleys (#22B3P)
 - ~~___ 1 DC motor (low torque, high RPM) (*do not use*)~~
 - BG Micro, www.bgmicro.com,
 - ___ BAT1060, 8.4V/3.8AH, NiMH battery, with male-male header to mount to protoboard, \$7 each
 - ___ Battery charger \$3 (warning: charge no longer than 8 hours)
 - ___ 2, MOT1050, Geared DC motor (\$7.95 each) (*one given for Lab 6*)
 - Parallax, www.parallax.com or www.Suntekstore.com
 - ___ 4, Ultrasonic Ping))) or HC-SR04, \$29.95 or \$2.99 (*one given for Lab 6*)
 - ___ 4, Jumper wires, female to open or female to female
 - Sparkfun, www.sparkfun.com
 - ___ 4, GP2Y0A21YK IR range sensor, SEN-00242 (\$9.95 each) (*one given for Lab 4 or 6*)
 - ___ 4, Jumper wires, SEN-08733 (\$1.50 each) with male-male header to mount to protoboard
 - All Electronics Corporation, <http://www.allelectronics.com>, Phone 1-800-826-5432
 - ___ 4, switches of various types
 - SMS-189, MINI-SNAP-ACTION SWITCH, \$0.50 each
 - SMS-174, MINI-ACTION ROLLER SWITCH, \$1.25 each
 - ~~___ 4, QRB1134, optical reflective object sensor, \$2.00 each (Mouser) (*do not use*)~~
 - ~~___ 1, SOL 89, Deltrol Controls #56597 60 INT. Spring return, push pull solenoid, \$1.35(*do not use*)~~
 - Jameco, 1-800-831-4242, www.jameco.com, and Jameco Robot Store, <http://www.robotstore.com>
 - ~~___ 2, 162191, HNGH12 1324Y Geared DC motor, 150RPM 12VDC, 50 mA, \$16.95 each(*do not use*)~~
 - ~~___ 2, 163395, 5017 935, 30 ohm, 280 mA, 400 steps/rotation stepper motor, \$4.95 each(*do not use*)~~
 - ___ 1, 157067, 14500 RBT geared servo motor, \$17.95 each
 - ___ 1, servo bag with 4 plastic pieces, 4 screws, 4 black bushings, and 4 brass bushings
 - ___ 2, 400961, 3 in tires, Neoprene Foam Tread, \$7.25/pair
 - ___ 2, 386118, Mounting Hub, 5mm shaft (drilled to 3/16in), \$8.49 per pair
 - ~~___ 2, 386118, Mounting Hub, 4mm shaft, \$8.49 per pair (*do not use*)~~
 - ~~___ 1, 358336, Ball Caster, \$11.95 (*do not use*)~~
 - ___ 2, big and little casters (Home Depot)
- Stuff in the kit that I won't count, but would like back
the rest of the 643 parts in the erector set, springs, belts and rubber bands

Jonathan W. Valvano