			2012 BEST Consumable Kit List (provided by hub)
	Check	Qty	Description
σ		1 meter	EZ Energy Chain System®, P/N 05-4-038-0, with 2 mounting brackets (P/N 050-20-12)
Plastic and Metal igus® Donated Stock		2 ea	DryLin® N Low Profile Linear Guide system, P/N NK01-27-2-450
		6 ea	igubal® Flange Mount Spherical Bearing, 1/4", P/N EFOI-04
		6 ea	igubal® Pillow Block Mount Spherical Bearing, 1/4", P/N KSTI-04
		6 ea	igubal® 1/4" Rod End Bearing, 1/4"-28 Thread, P/N EBRI-04
		2 ea	DryLin® S, 1/4" diameter, hard anodized Aluminum Shaft, P/N AWI-04, 18 inch length
		1 ea	1/4" thick polypropylene sheet 12" X 24"
		1 ea	1/8" thick PVC Class 1 sheet 12" X 24"
		1 ea	0.5" thick X 2" wide 6061-T6 aluminum flat, 12" long
		1 ea	0.063" thick 5052-H32 aluminum sheet, 12" x 24"
		1 ea	0.5" diameter 6061-T6 aluminum round, 24" long
		2 ea	0.25" diameter AISI 1018 steel round, 24" long
		3 ea	piano wire, 0.063" diameter, 2' long
		1 ea	11/32" or 3/8" thick, 2'X4' plywood, BC or Luan grade
၁၀		1 ea	5 mm thick Luan grade, or 7/32" or 1/4" thick, 2'X4' BC grade plywood
St		1 ea	1/8" thick, 2'X4', hardboard
Wood Stock		2 ea	1" X 4" #2 whitewood, 2 ft long
٧o		1 ea	1/4" X 48" hardwood dowel
		4 ea	1/2" schedule 40 PVC pipe, 5 ft long
<u> </u>		2 ea	3/4" schedule 40 PVC pipe, 5 ft long
lug		2 ea	1" schedule 40 PVC pipe, 5 ft long
∄		1 ea	4" PVC solid sewer pipe, SDR 35 or ASTM D2729, 3 ft long (without integral coupling)
Б.		10 ea	1/2" PVC 90 degree elbow (slip)
au		10 ea	1/2" PVC tee (slip)
S		10 ea	3/4" PVC 90 degree elbow (slip)
<u>i</u>		10 ea	3/4" PVC tee (slip)
<u>.</u>		6 ea	1" PVC 90 degree elbow (slip)
PVC Pipes and Fittings		6 ea	1" PVC tee (slip)
		1 ea	regular PVC cement, 4 oz
		4 ea	2.5" X 5/8" steel ZN, corner angle bracket
		4 ea	2" X 3/8" steel ZN, flat angle bracket
<u>5</u>		2 ea	2.5"H X 1.75"W X 0.055" narrow hinge w/removable pin
Hardware		2 ea	1.5"H X 1-3/8"W X 0.05" narrow hinge w/nonremovable pin & 4 screws
arc		1 ea	extension spring for heavy doors, 13/32"OD, 0.0625" wire diameter, steel
Ĩ		1 ea	6" x 6" steel turntable, 500 lb capacity
		1 ea	3/4" metal pipe hanger tape, 28 gauge, 10 ft long
		12 ft	18 gauge stranded copper wire, red insulation, single conductor
		12 ft	18 gauge stranded copper wire, black insulation, single conductor
		12 ft	CAT3 24 gauge, 4 conductor wire
		1 ea	9Volt battery (non-rechargeable) - controller backup battery
		16 ea	snap-plug terminals (bullet connectors), insulated, male
æ		16 ea	snap-plug terminals (socket for bullet connectors), insulated, female
Electrical		20 ea	quick-disconnect terminal, insulated, female, 0.11" wide (Hub optional **)
ğ		10 ea	quick-disconnect terminal, insulated, female, 0.187" wide (Hub optional **)
Ele		2 ea	mini snap acting switches, SPDT, 10 amp (min)
_		4 ea	sub-mini snap action switch, SPDT, 0.1 A, Omron P/N SS-01GL13PT
		1 ea	rotary potentiometer, linear, 10K ohm, 300°, panel mount, 6mm (aprox.) shaft
		2 ft	heat shrink tubing, 1/4" OD expanded, 2:1 ratio, polyolefin, black
		10 ea	11" long x 0.18" wide nylon cable tie
		20 ea	4" long x 0.1" wide nylon cable tie
-		1 ea	vinyl electrical tape, 3/4" wide, 60 ft
anc ves		1 ea	friction tape, 3/4" wide, 60 ft
Tapes and Adhesives		1 ea	all purpose duct tape, 2" (or 1.88") wide, 50 to 60 yd, (color optional)
		1 ea	carpenters wood glue, 4 oz
ĭ≟∀		1 ea	5 minute epoxy, 0.85 oz
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	Check	Qty	Description	
		1 ea	1/4"-20 threaded rod, 3' long, steel	
		25 ea	1/4"-20 hex nut, steel	
		25 ea	1/4" SAE flat washer, steel	
		25 ea	1/4" medium split lock washer, steel	
		10 ea	1/4"-28 hex nut, 6/6 black nylon	
		2 ea	1/4"-20 X 4" eye bolt, steel	
S		25 ea	#10-32 X 1 1/2" machine screws, steel, round head, phillips	
er		25 ea	#10-32 machine screw nuts, steel	
ter		25 ea	#10 flat washer, steel	
Threaded Fasteners		100 ea	#8-32 X 1 1/4" machine screw, steel, pan head, phillips	
Б		100 ea	#8-32 machine screw nuts, steel	
de		25 ea	#8 medium split lock washer, steel	
e a		25 ea	#4-40 X 1" machine screws, round head, steel	
된		25 ea	#4-40 machine screw nuts, steel	
•		10 ea	#2-56 X1" machine scews, pan head, phillips, stainless	
		10 ea	#2-56 machine screw nuts, 3/16x1/16, steel	
		10 ea	#2 flat washer, steel	
		10 ea	wood screw eyebolts, 0.192 wire dia x .97 shank x .75 thread x .27 id, steel	
		100 ea	#8 X 1" sheet metal screw, steel, hex head	
		100 ea	#6 X 1" wood screws, steel, flat head	
		25 ea	#4 X 3/4" wood screw, steel, slotted drive, round head	
		5 ft	3/4" nylon sticky back hook and loop fastener	
		1 ea	#18 twisted nylon seine twine, 225 to 250 ft long (color optional)	
<u>8</u>		4 ft	1/4" polypropylene covered shock cord (color optional)	
10a		2 ft	3/8" thick, 1" wide, adhesive backed, gum rubber strip	
a		1 ea	bicycle inner tube (26" X 1.5" - 2.0")	
Miscellaneous		1 ea	60x65" universal brake cable with housing (white or black)	
isc		25 ea	#10 Rubber Band (1/16" wide x 1-1/4" long)	
Σ		25 ea	#32 Rubber Band (1/8" wide x 3" long)	
		100 ea	1 1/4" long paper clips, 0.033 dia wire (No. 1 Regular)	
		1 ea	VEX motor mounting kit (4 mounts + screws)	

Approved Optional Items (provided by team)						
Qty	Description					
10 ea	wooden spring type clothes pins					
2400 sq in	corrugated cardboard, 1/4" maximum thickness					
2 ea	empty aluminum soft drink cans (12 fl. oz.)					
1 ea	empty food/beverage PET container with screw on cap/lid (2 liter max.)1					
3 ea	wire coat hangers with or without plastic coating, 1/8" dia. max.					
3 ea	solid core golf balls					
1 ea	5 minute epoxy, 0.85 oz					
3 ea	~10oz empty metal soup can with lid removed					
24 lb	pennies (cannot be altered)					
1 ea	4 oz. PVC primer					
144 sq in	heavy duty aluminum foil					
6 ea	wooden golf tees					
1 ea	aluminum paint grid for 5 gallon bucket					
1 ea	inner tube repair kit					
4 ea	compact disk (standard size: 120mm diameter x 1.2 mm thick)					

Notes: Approved Optional Items can be used in addition to those supplied by the hub.