

6 THE KIT

6.1 THE KIT OF PARTS LIST

2004 Kit of Parts Checklist

Team Number

Bearing Bag

Container: **Blue**

<input checked="" type="checkbox"/>	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	Pillow Block, aluminum	accepts bearing for 5/8" shaft	Rods & Shafts	4	MMH Order form
<input type="checkbox"/>	Radial Ball Bearing With Spherical O.D., RA008RRB	1/2" I.D., Self Locking Collar	Bearings	4	The Timken Company (formerly Torrington)
<input type="checkbox"/>	Flange, Two Bolt Self-Aligning, 40MST	Fits 1/2" Bearing	Bearings	8	The Timken Company (formerly Torrington)
<input type="checkbox"/>	Radial Ball Bearing, S7KDD, with Shields	5/8" I.D. - 1.375 OD - .344 Width	Bearings	12	The Timken Company (formerly Torrington)

CIM/Globe Bag

Container: **Blue**

<input checked="" type="checkbox"/>	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	Motor, Globe, with Drive Assembly	12Vdc	Motors & Pumps	2	Globe Motors
<input type="checkbox"/>	Motor, CIM (aka Chiaphua or Atwood), 8mm keyed output shaft	8mm keyed output shaft	Motors & Pumps	2	MMH Order form
<input type="checkbox"/>	CIM Motor Bracket	Zinc coated	Motors & Pumps	2	MMH Order Form
<input type="checkbox"/>	Key Stock, Metric	Metric key stock; fits the shaft on the Chiaphua motor only: 0.079" x	Rods & Shafts	1	N/A

Control System Accesories

Container: **Blue**

<input checked="" type="checkbox"/>	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	Relay Module (Spike)	12V, 20A Max	Control System	4	www.innovationfirst.com
<input type="checkbox"/>	Power Supply for Operator Interface	9 Vdc	Control System	1	www.innovationfirst.com
<input type="checkbox"/>	Speed Controller (Victor 884)		Control System	4	www.innovationfirst.com

Control System Box

Container: **Blue**

<input checked="" type="checkbox"/>	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	Radio Modem for Robot Controller	RS-422, 9 pin F, rubber antenna	Control System	1	www.innovationfirst.com
<input type="checkbox"/>	Radio Modem for Operator Interface	RS-422, 9 pin F, metal antenna	Control System	1	www.innovationfirst.com
<input type="checkbox"/>	Robot Controller		Control System	1	www.innovationfirst.com
<input type="checkbox"/>	Operator Interface		Control System	1	www.innovationfirst.com

Drive Train Bag

Container: **Blue**

<input checked="" type="checkbox"/>	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	Key Stock, 3/16" x 12"	3/16" key stock; fits 5/8" shaft	Rods & Shafts	1	ITW Bee Leitzke
<input type="checkbox"/>	Key Stock, Step, 1/8"+3/16" x 6"	1/8" and 3/16" step key stock; the 1/8" side fits the 1" and 2" gears;	Rods & Shafts	1	ITW Bee Leitzke

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<input type="checkbox"/>	(GB), Gearbox, Pillow Block Half	Injection Molded	Rods & Shafts	8	MMH Order form
<input type="checkbox"/>	(GB), Gearbox, Pillow Block Mounting Plate Used in Pairs	Injection Molded	Rods & Shafts	4	MMH Order form
<input type="checkbox"/>	(GB), Gearbox, Clamping Plate for 2" x 4" Frame (can be used on smaller stock)	Injection Molded	Rods & Shafts	2	MMH Order form
<input type="checkbox"/>	Gear, 2" Helical, 5/8" Keyed Bore, Right Hand		Rods & Shafts	2	www.msdirect.com
<input type="checkbox"/>	Gear, 1" Helical, 5/8" Keyed Bore, Right Hand		Rods & Shafts	2	www.msdirect.com
<input type="checkbox"/>	Chain, 10'	#35	Rods & Shafts	1	www.msdirect.com
<input type="checkbox"/>	Master Link for Chain	#35	Rods & Shafts	2	www.msdirect.com
<input type="checkbox"/>	Half Link (Offset Link) for Chain	#35, two pitch	Rods & Shafts	2	www.msdirect.com

Electrical Bag (small)

Container: **Blue**

<input type="checkbox"/>	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	Servo	42 oz./in. peak torque, 0.19 sec./60°	Control System	2	N/A
<input type="checkbox"/>	LED, Panel Mount	white, 5V, 5MM 1.7V-2.1V	Electrical	2	N/A
<input type="checkbox"/>	LED, Panel Mount	Amber, 5V	Electrical	2	N/A
<input type="checkbox"/>	LED, Panel Mount	Green, 5V	Electrical	1	N/A
<input type="checkbox"/>	Breaker Panel	ATC, 100A. max	Electrical	2	www.connectorconcepts.com
<input type="checkbox"/>	Breaker, Buss, Ckt Breaker / Disconnect Switch	120A., automotive style	Electrical	1	www.connectorconcepts.com
<input type="checkbox"/>	Muffin Fan (Tiny)	12 Vdc	Electrical	6	www.ebmpapst.us
<input type="checkbox"/>	Snap-Action Circuit Breaker	30 amp,12 volt, Auto-Resetting	Electrical	6	www.innovationfirst.com
<input type="checkbox"/>	PWM/Relay Cable	Hitec/JR-style, 36" Long	Control System	8	www.innovationfirst.com
<input type="checkbox"/>	PWM/Relay Y Cable	Hitec/JR-style, 24" Long	Control System	2	www.innovationfirst.com
<input type="checkbox"/>	Snap-Action Circuit Breaker	20 amp,12 volt, Auto-Resetting	Electrical	6	www.innovationfirst.com.
<input type="checkbox"/>	Snap-Action Circuit Breaker	40 amp,12 volt, Auto-Resetting	Electrical	4	www.innovationfirst.com
<input type="checkbox"/>	Feed-Through Terminal Block	one #6 on one side; four #10 other side	Electrical	1	www.rockwellautomation.com look for Allen Bradley product
<input type="checkbox"/>	25-Pin Solder Cup Connector	DB25 Male	Control System	2	www.tycoelectronics.com
<input type="checkbox"/>	15-Pin Solder Cup Connector	DB15 Female	Control System	2	www.tycoelectronics.com

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Loose

Container: **Blue**

<input type="checkbox"/>	<u>Part Name/Description</u>	<u>Dimensions</u>	<u>Category</u>	<u>Qty /Kit</u>	<u>Product Supplier</u>
<input type="checkbox"/>	Quick-Disconnect Power Connector (with 1 leads)	#6 AWG Red/Black Wire, pair	Electrical	2	N/A
<input type="checkbox"/>	LED Light Cluster	Replaces the revolving light	Electrical	4	N/A
<input type="checkbox"/>	Tiagene, Power Sliding Door Motor		Motors & Pumps	1	N/A
<input type="checkbox"/>	Pneumatics, Pressure Transducer	0-130 psig transducer; has 1/4-18 NPT input port	Sensors	1	Texas Instruments
<input type="checkbox"/>	Muffin Fan (Large)	12 Vdc	Electrical	2	www.ebmpapst.us
<input type="checkbox"/>	9-Pin Cable (M-F) (Black)	DB9 Male to Female, 6', Shielded	Control System	3	www.innovationfirst.com
<input type="checkbox"/>	9-Pin Cable (F-F) (Red)	DB9 Female to Female, 6', Shielded	Control System	1	www.innovationfirst.com
<input type="checkbox"/>	Wheel, Wheelchair, 6"	6" Ø, 5/16" I.D. Bearings, 1-1/2" Wide Flange	Wheels	2	www.skywaywheels.com
<input type="checkbox"/>	Wheel, 12.5" Pneumatic Assembly, Skyway	5/8" keyed hub	Wheels	2	www.skywaywheels.com
<input type="checkbox"/>	Ball, 34", Yellow, BIGENS Kit Ball	34" BIGENS Ball	Game piece for kit	1	www.sportfun.com

Pneumatics - SMC

Container: **Blue**

<input type="checkbox"/>	<u>Part Name/Description</u>	<u>Dimensions</u>	<u>Category</u>	<u>Qty /Kit</u>	<u>Product Supplier</u>
<input type="checkbox"/>	Pneumatics Kit, Double Solenoid Base Ported Valve, SMC		Pneumatics	2	www.smcusa.com
<input type="checkbox"/>	Pneumatics Kit, Flow Control, SMC		Pneumatics	6	www.smcusa.com
<input type="checkbox"/>	Pneumatics Kit, Fitting, Straight 1/4" Tube, SMC		Pneumatics	20	www.smcusa.com
<input type="checkbox"/>	Pneumatics Kit, Fitting, 90 Elbow 1/4" Tube, SMC		Pneumatics	20	www.smcusa.com
<input type="checkbox"/>	Pneumatics Kit, Fitting, Tee Union 1/4" Tube, SMC		Pneumatics	5	www.smcusa.com
<input type="checkbox"/>	Pneumatics Kit, Fitting, Male Run T 1/8 NPT ~ 1/4" Tube, SMC		Pneumatics	5	www.smcusa.com
<input type="checkbox"/>	Pneumatics Kit, 1/4" OD Tubing, SMC	20 meters	Pneumatics	1	www.smcusa.com

Seat/Window Bag

Container: **Blue**

<input type="checkbox"/>	<u>Part Name/Description</u>	<u>Dimensions</u>	<u>Category</u>	<u>Qty /Kit</u>	<u>Product Supplier</u>
<input type="checkbox"/>	Motor, Seat, Keyang	12 Vdc	Motors & Pumps	1	N/A
<input type="checkbox"/>	Worm Gear Actuator-Right Hand	2 inch linear movement	Rods & Shafts	1	N/A
<input type="checkbox"/>	Worm Gear Actuator-Left Hand	2 inch linear movement	Rods & Shafts	1	N/A

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<input type="checkbox"/>	Nippon-Denso Motor, Window, Right		Motors & Pumps	2	N/A
<input type="checkbox"/>	Flexible Motor Shaft	13.5" Long, Fits Seat Motor	Rods & Shafts	2	www.grcontrols.com

Sensor Bag

Container: **Blue**

<input checked="" type="checkbox"/>	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	IR Beacon - Vector Board	Vector board "circbord" 4.5" x 6.50"	Sensors	1	N/A
<input type="checkbox"/>	Current Sensor - Tantalem Capacitors		Electrical	2	N/A
<input type="checkbox"/>	IR Beacon - FET's		Sensors	2	N/A
<input type="checkbox"/>	IR Beacon - LED's	Clear/White	Sensors	10	N/A
<input type="checkbox"/>	IR Beacon - Resistors	33 Ohm	Sensors	8	N/A
<input type="checkbox"/>	IR Beacon - 3pin Connectors	black	Sensors	2	N/A
<input type="checkbox"/>	Current Sensor	75 Amp current sensor w/analog output	Sensors	2	www.allegromicro.com.
<input type="checkbox"/>	World-Beam Diffuse Sensor w/screws		Sensors	2	www.bannerengineering.com
<input type="checkbox"/>	IR Beacon - Photo Detector (Receiver)	Vishay P/N - TSOP34840	Sensors	5	www.newarkinone.com
<input type="checkbox"/>	Current Sensor - Printed Circuit Board	40mm x 50mm x 1.575mm, FR4 material.	Electrical	2	www.newarkinone.com

Terminal Supply Bag

Container: **Blue**

<input checked="" type="checkbox"/>	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	Stud, Insulated	3/8" dia	Electrical	1	www.terminalsupplyco.com
<input type="checkbox"/>	Nylon ring terminal	Connects AWG #6 cable to 3/8" stud	Electrical	4	www.terminalsupplyco.com
<input type="checkbox"/>	Nylon ring terminal	Connects AWG #6 cable to 1/4" stud	Electrical	4	www.terminalsupplyco.com
<input type="checkbox"/>	Nylon ring terminal	Connects AWG 22-18	Electrical	12	www.terminalsupplyco.com
<input type="checkbox"/>	Nylon ring terminal	Connects AWG 16-14	Electrical	12	www.terminalsupplyco.com
<input type="checkbox"/>	Nylon ring terminal	Connects AWG #12-10	Electrical	12	www.terminalsupplyco.com
<input type="checkbox"/>	Nylon ring terminal	Connects AWG #6	Electrical	12	www.terminalsupplyco.com
<input type="checkbox"/>	Nylon insulated Quick Disconnect	Connects AWG #22-18	Electrical	6	www.terminalsupplyco.com
<input type="checkbox"/>	Nylon insulated Quick Disconnect	Connects AWG #16-14	Electrical	6	www.terminalsupplyco.com
<input type="checkbox"/>	Nylon insulated Quick Disconnect	Connects AWG #12-10	Electrical	12	www.terminalsupplyco.com

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<input type="checkbox"/>	Wire Nut	Red	Electrical	8	www.terminalsupplyco.com
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Metal Box

Container: **Metal Box**

	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	Shaft, 5/8" Keyed	5/8" keyed x 36"	Rods & Shafts	1	N/A
<input type="checkbox"/>	Pipe, 1" Aluminum	1" x 24" schedule 40	Structural	2	N/A
<input type="checkbox"/>	(TR), Threaded Rod , 3/8"	3/8" Ø x 36", 20 Pitch Coarse Thread	Structural	2	N/A
<input type="checkbox"/>	Frame, 2" x 4" Extruded Aluminum	2" x 4" x 36"	Structural	2	N/A
<input type="checkbox"/>	Aluminum, Solid, 1" Hex OD 6" Long	Part of 3-piece assembly for 8mm Chiaphua shaft	Rods & Shafts	1	N/A

Battery Box

Container: **Red**

	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	Battery	12 volt, 18 AH Deep Cycle Non-Spillable	Electrical	2	www.batteriesplus.com Manchester, NH Store

Coupler Bag

Container: **Red**

	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	Flexible Shaft Coupling	Black	Rods & Shafts	2	MMH Order Form
<input type="checkbox"/>	Coupler to Nippon-Denso Motor Gear	Injection molded	Motors & Pumps	2	MMH Order Form
<input type="checkbox"/>	Coupling, 1/2" Drill Motor, Aluminum, accepts 1/2" Drill Shaft. 1" Hex OD	accepts 1/2" Drill Shaft, 1" Hex OD	Rods & Shafts	2	MMH Order Form
<input type="checkbox"/>	Coupling, 1/2" Drill Motor, Aluminum, accepts 5/8" Keved Shaft. 1" Hex OD	accepts 5/8" Keyed Shaft, 1" Hex OD	Rods & Shafts	2	MMH Order Form
<input type="checkbox"/>	Coupling, Plastic, Round, Accepts 1" Hex Both Sides	Can insert 4 types: 1/2" drill motor unit: 8mm Chiaphua unit:	Rods & Shafts	4	MMH Order Form
<input type="checkbox"/>	Coupling, Aluminum, accepts 8mm Chiaphua Shaft. 1" Hex OD	3-piece assembly for 8mm Chiaphua shaft	Rods & Shafts	2	MMH Order Form

Drill Bag

Container: **Red**

	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	Rubber Bands	2" x 1/2" Broccoli bands	Fasteners	10	Any office supply store
<input type="checkbox"/>	Mount for 1/2" Drill Motor; 4 Pieces	Injection molded	Motors & Pumps	2	MMH Order form
<input type="checkbox"/>	Screw, Left-Hand for Bosch 1/2" Drill Drive Assembly		Motors & Pumps	4	MMH Order Form
<input type="checkbox"/>	Motor Assembly, 1/2"	0.87Nm @ 127A stall, 19670RPM No-Load	Motors & Pumps	2	www.boschtools.com
<input type="checkbox"/>	Drill Drive Assembly (Transmission), 1/2"	2 Speed -12.07:1 & 42.62:1 Gear Ratios	Motors & Pumps	2	www.boschtools.com

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Hardware Bag

Container: **Red**

✓	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	Retaining Rings for 5/8" Keyed Shaft	Gearbox	Rods & Shafts	1 bag	www.fastenal.com
<input type="checkbox"/>	(TR), Nut, NYLOCK NE 3/8-16Z	3/8" nut for threaded rod	Structural	1 bag	www.fastenal.com
<input type="checkbox"/>	(TR), Washer, Flat, 3/8" Hole, USS F/W 3/8	Frame Washers	Structural	1 bag	www.fastenal.com
<input type="checkbox"/>	(GB), Washer, Flat, 1/4" Hole, USS F/W 1/4	Gearbox Washers	Rods & Shafts	1 bag	www.fastenal.com
<input type="checkbox"/>	(GB), Bolt, 307AHB 1/4-20 x 6.5Z, Hex Head	For gear box	Rods & Shafts	1 bag	www.fastenal.com
<input type="checkbox"/>	(GB), Nut, NYLOCK NE 1/4-20Z	For gear box bolts	Rods & Shafts	1 bag	www.fastenal.com
<input type="checkbox"/>	(MM), Bolt, Motor Mount, 1/4-20 x 1"; 307AHB 1/4-20 x 1Z	Bolt (rear)	Motors & Pumps	1 bag	www.fastenal.com
<input type="checkbox"/>	(MM), Bolt, Motor Mount, 10-32 x 2"; SHCS 10-32 x 2	Bolt (clamp)	Motors & Pumps	1 bag	www.fastenal.com
<input type="checkbox"/>	(MM), Nut, Motor Mount, 10-32; NYLOCK NM 10-32Z	Nuts (clamp)	Motors & Pumps	1 bag	www.fastenal.com
<input type="checkbox"/>	(MM), Nut, Motor Mount, 1/4-20; NYLOCK NE 1/4-20Z	Nuts	Motors & Pumps	1 bag	www.fastenal.com
<input type="checkbox"/>	(MM), Washer, Motor Mount, 1/4-20; SAE F/W 1/4Z	Flat Washers	Motors & Pumps	1 bag	www.fastenal.com
<input type="checkbox"/>	(MM), Washer, Motor Mount, 10-32; SAE F/W (#10) Z	Washers (clamp)	Motors & Pumps	1 bag	www.fastenal.com
<input type="checkbox"/>	(MM), Bolt, Motor Mount, 1/4-20 x 3-1/4"	Bolt (front)	Motors & Pumps	1 bag	www.fastenal.com
<input type="checkbox"/>	Latex Tubing	1/4" I.D., 3/8" O.D., 5'	Springs	2	www.kentelastomer.com

Loose

Container: **Red**

✓	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	(GB) Spacer, Steel	Spacer for 2" x 4" material;	Rods & Shafts	8	N/A
<input type="checkbox"/>	(MM) Spacer, Steel	Spacer for 2" x 4" material;	Motors & Pumps	4	N/A
<input type="checkbox"/>	(TR) Spacer, Steel	Spacer for 2" x 4" material;	Structural	4	N/A
<input type="checkbox"/>	(GB), Spacer, Pipe, for Gear Box, Aluminur	0.652 ID; 0.75 OD; 0.049 wall x 0.250"	Rods & Shafts	8	N/A
<input type="checkbox"/>	(GB), Spacer, Pipe, for Gear Box, Aluminur	0.652 ID; 0.75 OD; 0.049 wall x 0.750"	Rods & Shafts	2	N/A
<input type="checkbox"/>	(GB), Spacer, Pipe, for Gear Box, Aluminur	0.652 ID; 0.75 OD; 0.049 wall x 3.1875"	Rods & Shafts	2	N/A
<input type="checkbox"/>	(GB), Spacer, Pipe, for Gear Box, Aluminur	0.652 ID; 0.75 OD; 0.049 wall x 1.210"	Rods & Shafts	4	N/A
<input type="checkbox"/>	Valve - Single Solenoid		Pneumatics/Hydraulic	1	www.boschrexroth.com Pneumatics division

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<input type="checkbox"/>	Fisher-Price 10 Web Jeep Driver (NO AXLE)	Black	Motors & Pumps	2	www.fisher-price.com/powerwheels
<input type="checkbox"/>	Motor/Gearbox, Fisher-Price	12 Vdc stall torque (mNm) 532.19+/- 10%	Motors & Pumps	2	www.fisher-price.com/powerwheels
<input type="checkbox"/>	Joystick , Analog	AVB Top Shot Analog	Control System	2	www.innovationfirst.com CH Analog Joystick only
<input type="checkbox"/>	Ball, 13", Red, Kit Ball	Kit ball	Game piece for kit	1	www.palossports.com

Pneumatics 1

Container: **Red**

<input checked="" type="checkbox"/>	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	Pneumatics Kit, Volume Tank, Clippard	16 cu. in., 2" x 8"	Pneumatics	2	www.clippard.com
<input type="checkbox"/>	Pneumatics Kit, Valve Kit, Solenoid, With Fittings, Festo		Pneumatics	1	www.festo.com
<input type="checkbox"/>	Pneumatics Kit, Cylinder, Parker	1.5" bore x 8" stroke; rear pivot mount	Pneumatics	1	www.parker.com
<input type="checkbox"/>	Pneumatics Kit, Pivot Bracket Set, Cylinder, Parker		Pneumatics	1	www.parker.com
<input type="checkbox"/>	Pneumatics Kit, Rod Clevis, Cylinder, Parker		Pneumatics	1	www.parker.com

Pneumatics 2

Container: **Red**

<input checked="" type="checkbox"/>	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	Pneumatics Kit, Teflon Tape, 1/4" x 100'		Pneumatics	1	Various
<input type="checkbox"/>	Pneumatics Kit, 0-160psi Gauge for Norgren Regulator, Wika		Pneumatics	1	Wika
<input type="checkbox"/>	Pneumatics Kit, Secondary Pneumatic Regulator, Monnier		Pneumatics	1	www.monnier.com
<input type="checkbox"/>	Pneumatics Kit, Regulator Mounting Bracket and Nut, Monnier		Pneumatics	1	www.monnier.com
<input type="checkbox"/>	Pneumatics Kit, Pressure Switch Opens @ 115psi; Closes @ 95psi, Nason		Pneumatics	1	www.nasonptc.com
<input type="checkbox"/>	Pneumatics Kit, Main Regulator with 60psi Max Output, Norgren		Pneumatics	1	www.norgren.com
<input type="checkbox"/>	Pneumatics Kit, 0-160psi Gauge for Norgren Regulator, Norgren		Pneumatics	1	www.norgren.com
<input type="checkbox"/>	Pneumatics Kit, Regulator Mounting Bracket and Nut, Norgren		Pneumatics	1	www.norgren.com
<input type="checkbox"/>	Pneumatics Kit, Manual 2-Way Plug Valve, Parker		Pneumatics	1	www.parker.com
<input type="checkbox"/>	Pneumatics Kit, Union Tee, Parker		Pneumatics	4	www.parker.com
<input type="checkbox"/>	Pneumatics Kit, Adaptor 1/4" Female to 1/8" Male, Parker		Pneumatics	6	www.parker.com
<input type="checkbox"/>	Pneumatics Kit, Hex Nipple 1/8" NPT, Parker		Pneumatics	6	www.parker.com
<input type="checkbox"/>	Pneumatics Kit, Bushing 1/8" Female to 1/4" Male, Parker		Pneumatics	12	www.parker.com

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<input type="checkbox"/>	Pneumatics Kit, Plug 1/8", Parker		Pneumatics	6	www.parker.com
<input type="checkbox"/>	Pneumatics Kit, Plug 1/4", Parker		Pneumatics	6	www.parker.com

Wire Bag

Container: **Red**

<input checked="" type="checkbox"/>	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	2 Conductor Jacketed Wire	35', #16 AWG	Electrical	1	N/A
<input type="checkbox"/>	3 Conductor Shielded Wire	30', #24 AWG	Electrical	1	N/A
<input type="checkbox"/>	2 Conductor Jacketed Wire	30', #24 AWG	Electrical	1	N/A
<input type="checkbox"/>	1 Conductor Wire	20', #10 AWG, Red	Electrical	1	N/A
<input type="checkbox"/>	1 Conductor Wire	20', #10 AWG, Black	Electrical	1	N/A
<input type="checkbox"/>	1 Conductor Wire	10', #6 AWG, Black	Electrical	1	N/A
<input type="checkbox"/>	1 Conductor Wire	10', #6 AWG, Red	Electrical	1	N/A

Documentation Bag

Container: **Separate Box**

<input checked="" type="checkbox"/>	Part Name/Description	Dimensions	Category	Qty /Kit	Product Supplier
<input type="checkbox"/>	Pneumatics FIRST Pamphlet		Documentation	1	
<input type="checkbox"/>	FedEx Airbills		Documentation	3	FedEx
<input type="checkbox"/>	FedEx Envelope - Introduction Letter		Documentation	1	FedEx
<input type="checkbox"/>	FedEx Pouch		Documentation	3	FedEx
<input type="checkbox"/>	EduBot CDROM		Documentation	1	N/A
<input type="checkbox"/>	Discovering Fluid Power CDROM		Documentation	1	N/A
<input type="checkbox"/>	Newark In One CDROM		Documentation	1	N/A
<input type="checkbox"/>	Allegro Microsystems envelope		Documentation	1	N/A
<input type="checkbox"/>	Magazine, Nut and Volts		Documentation	1	www.nutsvolts.com
<input type="checkbox"/>	Magazine, SERVO		Documentation	1	www.servomagazine.com
<input type="checkbox"/>	Infrared Beacon 1 Pager		Documentation	1	www.usfirst.org
<input type="checkbox"/>	Current Sensor 1 Pager		Documentation	1	www.usfirst.org

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Team Number

Loose

Container: **Separate Box**

<input checked="" type="checkbox"/>	<u>Part Name/Description</u>	<u>Dimensions</u>	<u>Category</u>	<u>Qty /Kit</u>	<u>Product Supplier</u>
<input type="checkbox"/>	Visio		Software	1	Microsoft
<input type="checkbox"/>	Visual Studio C		Software	1	Microsoft
<input type="checkbox"/>	Front Page		Software	1	Microsoft

Miscellaneous Bag

Container: **Separate Box**

<input checked="" type="checkbox"/>	<u>Part Name/Description</u>	<u>Dimensions</u>	<u>Category</u>	<u>Qty /Kit</u>	<u>Product Supplier</u>
<input type="checkbox"/>	Stickers - Various Suppliers		Documentation	4	
<input type="checkbox"/>	Maxi-Fuse holder for 40A breakers, 4 Positions	Brass, gold-plated	Electrical	1	N/A
<input type="checkbox"/>	Sprocket	45 tooth, 5 1/2" diameter 5/8" keyed hub	Rods & Shafts	2	www.msdirect.com
<input type="checkbox"/>	Sprocket	10 tooth, 1 3/8" diameter 5/8" keyed hub	Rods & Shafts	2	www.msdirect.com
<input type="checkbox"/>	Idler Sprocket		Rods & Shafts	2	www.msdirect.com

Direct

Container: **Shipped from**

<input checked="" type="checkbox"/>	<u>Part Name/Description</u>	<u>Dimensions</u>	<u>Category</u>	<u>Qty /Kit</u>	<u>Product Supplier</u>
<input type="checkbox"/>	Inventor Professional 7, Autodesk	3D mechanical design software; includes Autodesk Inventor +	Software	1	Autodesk
<input type="checkbox"/>	3D Studio Max 6, Autodesk	Includes Character Studio - see separate record	Software	1	Autodesk
<input type="checkbox"/>	Mechanical Desktop, Autodesk	Included with Inventor Professional 7	Software	1	Autodesk
<input type="checkbox"/>	Character Studio, Autodesk	Included with 3D Studio Max 6	Software	1	Autodesk
<input type="checkbox"/>	Animations from 2003, DVD	1 DVD	Software	1	Autodesk

Direct

Container: **Shipped from IFI**

<input checked="" type="checkbox"/>	<u>Part Name/Description</u>	<u>Dimensions</u>	<u>Category</u>	<u>Qty /Kit</u>	<u>Product Supplier</u>
<input type="checkbox"/>	EduBot Replacement Board	Replacement board with upgraded processor and	Control System	1	www.innovationfirst.com

1&2 Yr. Teams ONLY

Container: **Year 1 +2 Teams**

<input checked="" type="checkbox"/>	<u>Part Name/Description</u>	<u>Dimensions</u>	<u>Category</u>	<u>Qty /Kit</u>	<u>Product Supplier</u>
<input type="checkbox"/>	Battery Charger, Automatic	6 amp	Electrical	1	Midtronics (Exide spinoff)
<input type="checkbox"/>	Pneumatics Kit, Compressor, Thomas		Pneumatics	1	MMH Order Form
<input type="checkbox"/>	Pneumatics Kit, Vibration Isolators for Compressor, Lord Corp		Pneumatics	3	www.lord.com