

**FIRST Robotics Competition 2006 Additional Material List**

Rev. 1 1/9/06

The following material will help in the construction of the robot. The sources are only suggestions as you may find a better source locally.

**Robot Material**

Item	Material	Quantity	Cost/ea	Ext. Cost	Source	Used on
1	3/4 in. PVC Sch. 80 pipe (or a 3/4 in. schedule 80 PVC pipe nipple)	6 in			Home Depot	Transmission FRC-2005-112-010
2	3/8 in dia Bolt, 5 in. long	4	\$0.75	\$3.00	Home Depot	Axle for wheels
3	Washer for 3/8 bolt	4	\$0.08	\$0.32	Home Depot	Axle for wheels
4	3/8 Elastic Stop Nut (Nyloc) for 3/8 bolt	4	\$0.15	\$0.60	Home Depot	Axle for wheels
5	1/2 in OD, 3/8 in ID hollow rod, polycarbonate (need 16 in.)	8 ft	\$6.40	\$6.40	McMaster #8585K12	Spacer between transmission and wheels
6	10-32 x 1.75 Socket Head Cap Screw	12	\$0.47	\$5.64	McMaster #91255A276 or hardware	Skyway wheels
7	10-32 nut	12	\$0.01	\$0.12	McMaster #90480A195 or hardware	Skyway wheels
11	1/2 in PVC tubing	12 in.			Home Depot	Alliance flag holder
12	1/2 in PVC tubing end cap	1			Home Depot	Alliance flag holder
13	Lithium Multi-Purpose Grease				Hardware or Auto Store	Transmission
14	Loctite 242				Hardware or Auto Store	
15	Loctite 222				Hardware or Auto Store	
16	2-1/2 in x approx. 5 ft hollow core pool noodle	8	\$3.59	\$28.72	National Pool Discount Supplies or other source	Bumper
17	1000 Denier Cordura Plus fabric (or equivalent)	2 yds	\$14.99	\$29.98	<a href="http://www.seattlefabrics.com">www.seattlefabrics.com</a>	Bumper
18	7 inch Poof Basketball- Note: balls can be ordered wholesale direct from Poof-Slinky with a minimum order of 48		\$4.00		<a href="http://www.poof-slinky.com">www.poof-slinky.com</a>	