

Parts for Electronics & Robotics II Car

Updated 4/25/08

Part Description	Source	Part #	Unit Cost	Quantity	Total Cost	Notes
Electronics:						
Yellow LED's	Electronics Express	08L53YD	\$0.08	5	\$0.40	Purchased in quantities of 100+
Green LED's	Electronics Express	08L53GD	\$0.07	5	\$0.35	Purchased in quantities of 100+
1N5817 Schottky Diode	Jameco	177949CK	\$0.12	8	\$0.96	Purchased in quantities of 10+
1 K Ohm Resistor	Electronics Express	13.551K	\$0.03	5	\$0.15	Purchased in quantities of 200
4.7 K Ohm Resistor	Electronics Express	13.554.7K	\$0.03	1	\$0.03	Purchased in quantities of 200
10 K Ohm Resistor	Electronics Express	13.5510K	\$0.03	6	\$0.18	Purchased in quantities of 200
25 K Tripot	Electronics Express	18STS25K	\$0.75	1	\$0.75	Purchased in quantities of 10+
1000 uF Capacitor	Jameco	30015	\$0.22	1	\$0.22	Purchased in quantities of 10+
SPDT Switch	Electronics Express	17SLDH251	\$0.90	2	\$1.80	Purchased in quantities of 10+
SPDT Long Lever Switch	Jameco	187805	\$2.48	2	\$4.96	Purchased in quantities of 10+
78L05 Voltage Regulator	Jameco	51182	\$0.26	2	\$0.52	Purchased in quantities of 10+
16F88-I/P PIC Microcontroller	MICROCHIP	16F88-I/P	\$2.51	2	\$5.02	Purchased in quantities of 26+
74LS04 Hex Inverter IC, DIP14	Jameco	46316	\$0.26	1	\$0.26	Purchased in quantities of 10+
SN754410 Motor Driver IC	Pololu Robotics	0024	\$2.95	1	\$2.95	
Hantronix HDM16216H-5-300S 16 x 2 LCD	Jameco	618003	\$10.67	1	\$10.67	Purchased in quantities of 10+
Devantech SRF04 Ultrasonic Range Finder	Botball Store	Sonar Sensor	\$42.00	1	\$42.00	
6.5"x0.3" Solderless Breadboard	Electronics Express	03MBD	\$1.50	1	\$1.50	Purchased in quantities of 10+
6.5"x2.1" Solderless Breadboard w/ Wire Kit	Electronics Express	03MB102WWK	\$4.95	1	\$4.95	Purchased in quantities of 10+
6.5"x1.4" Solderless Breadboard	Electronics Express	03MBT	\$2.40	1	\$2.40	Purchased in quantities of 10+
Wire, #22 AWG	-	-	-	-	-	Not included in unit costs
9 Volt Battery Snap	Jameco	216541	\$0.30	1	\$0.30	Purchased in quantities of 10+
9 Volt Batteries	Home Depot	-	\$2.25	2	\$4.50	Purchased in quantities of 4
Miscellaneous Capacitors, Headers	-	-	\$3.50	1	\$3.50	
Wire Jumpers	-	-	\$3.00	1	\$3.00	
Motors:						
Futaba S3003 Hobby Servo	Tower Hobbies	ZM8143	\$10.33	1	\$10.33	Purchased in quantities of 3
Gearhead Motor, GH12-1641T-F, 71 RPM	Jameco	155855	\$21.24	2	\$42.48	Purchased in quantities of 10+
Body & Hardware:						
1/8"x12"x12" Aluminum	MPH Inc.	-	\$12.00	1	\$12.00	
Miscellaneous Aluminum Stock	Lowe's	-	\$5.00	1	\$5.00	
Miscellaneous Screws/Washers/Nuts	Zell's Hardware	-	\$3.00	1	\$3.00	
#6 x 1" Long Nylon Round Spacer	Small Parts	RSN-06/16-25	\$0.08	4	\$0.32	Purchased in quantities of 25
M2.5x6mm S/S Machine Screw	Small Parts	MPX-M25/06P-25	\$0.05	6	\$0.30	Purchased in quantities of 25
Multi-Directional Wheel	Robot Objects	WHL-RF190-516R	\$8.10	1	\$8.10	
Aluminum Wheel and Tires (1.7" dia.)	Robot Objects	WHL-TRF170-A	\$5.00	2	<u>\$10.00</u>	Purchased in quantities of 4
Total:					\$182.90	Costs exclude shipping & sales tax

Source List:

Vendor Name	Website	Telephone	Notes:
Acroname	acroname.com	720-564-0373	
Botball Store	botballstore.org	405-579-4609	
Digi-Key	digikey.com	800-344-4539	\$5 Handling fee on orders < \$25
Electronics Express	elexp.com	800-972-2225	\$20.00 Minimum order
Jameco	jameco.com	800-831-4242	\$20.00 Minimum order over phone
MICROCHIP	microchipdirect.com	888-624-7435	
Pololu Robotics & Electronics	pololu.com	877-776-5658	
Robot Objects	robotobjects.com	866-357-6268	