Microcontroller

Part Number	Description	Vendor	Price	Quantity	Extended Price
madd68krev0	Unpopulated PCB manufacturing	Advanced Circuits	40	1	40
	MC68376	Digikey	30.17	1	30.17
	2x1 male pin headers	Jameco	0.2	1	0.2
	3x1 male pin headers	Digikey	0.3	2	0.6
	4x1 male pin headers	Digikey	0.5	1	0.5
	4x2 male pin headers	Digikey	0.5	2	1
	5x1 male pin headers	Digikey	0.6	3	1.8
	5x2 male pin headers	Digikey	0.8	3	2.4
	8x2 male pin headers	Digikey	0.9	1	0.9
	PCB-mount male DB9 port	Jameco	0.6	1	0.6
	2-position male molex KK headers	Jameco	0.22	1	0.22
	3-position male molex KK headers	Jameco	0.25	2	0.5
	power switch	Digikey	3.96	1	3.96
	fuse holder	Digikey	0.6	1	0.6
	fuse	Digikey	0.6	1	0.6
	LM2940 5v voltage regulator	Digikey	1.2	1	1.2
	DS1813 voltage monitor	Dallas Semi	1.11	1	1.11
	power LED	Digikey	0.4	1	0.4
	battery indicator LED	Digikey	1.44	1	1.44
	10uF capacitor	Jameco	0.13	2	0.26
	0.1uF capacitor	Jameco	0.25	1	0.25
	100uF capacitor	Jameco	0.15	1	0.15
	12pF SMT capacitor	Digikey	0.25	2	0.5
	0.1uF SMT capacitor	Digikey	0.19	12	2.28
	1uF SMT capacitor	Digikey	0.19	5	0.95
	10ohm SMT resistor	Digikey	0.078	1	0.078
	1k SMT resistor	Digikey	0.078	1	0.078
	10k SMT resistor	Digikey	0.078	2	0.156
	33k SMT resistor	Digikey	0.078	1	0.078
	100k micro pot	Digikey	2.5	1	2.5
	1k 3-resistor isolated resistor network	Digikey	0.26	1	0.26
	10k 4-resistor isolated resistor network	Digikey	0.47	1	0.47
	1uH inductor	Digikey	0.5	2	1
	4.194MHz crystal oscillator	Digikey	2.5	1	2.5
	MAX225 5TX/5RX RS232 transciever	Digikey	18.97	1	18.97
	mini DPDT switches	Digikey	0.98	5	4.9
	MAX3053 CAN transciever	Maxim	2.34	2	4.68
	mini PCB-mount pushbutton switches	Jameco	0.29	2	0.58
	mini PCB-mount pushbutton switches (t	Jameco	0.23	1	0.23
	4-position DIP switches	Digikey	0.78	1	0.78
	74AHC244	Digikey	0.6	1	0.6
	SN74AHC32D	Digikey	0.6	1	0.6

	SMT LEDs	Digikey	1	4	4
	CY62148B 512kB 8-bit 70ns SRAM	Digikey	8.7	2	17.4
	SST39SF040 512kB 8-bit 45ns FLASH	Mouser	3.45	2	6.9
	buzzer	Jameco	2.99	1	2.99
Total					162.34
		Two microcontrollers =			324.68

Odometry Circuit Parts

Part Number	Description	Vendor	Price	Quantity	Extended Price
	US Digital 512 CPR optical encoder	US Digital	50	1	50
	US Digital 32 CPR optical encoder	US Digital	65.82	1	65.82
	Encoder cable assembly	US Digital	8	2	16
	LS7184 quadrature decoder IC	LSI	3.05	2	6.1
	SN74ALS869NT	Newark	6.62	3	19.86
Total					157.78

Misc

Part Number	Description	Vendor	Price	Quantity	Extended Price
	Connectors, wire, soldering supplies	Various	50	1	50
	Shipping		35	1	35
				Total	85