

Cricket Master Parts List

Cricket Controller PCB for Rev 5.9 PCB

Last Revised 3-10-2

Quantity	Reference	Description	Manufacturer	Dist Part Number	Distributor	Price Each	Total
1		Printed Circuit Board	HA	HA10008-056	HA	\$15.00	\$15.00
1	U1	Basic Stamp II	Parallax	Stamp II	DigiKey	\$49.00	\$49.00
1	U5	Microcontroller	Microchip	PC12C509-04-ND	DigiKey	\$5.00	\$5.00
1	U4	Timer	National	LM555CN-ND	DigiKey	\$0.81	\$0.81
1	U2	Low Drop +5V Regulator	National	LM2940CT-5.0-ND	DigiKey	\$2.45	\$2.45
1	Q1	Transistor NPN	Fairchild	2N3904-ND	DigiKey	\$0.29	\$0.29
1	U3	IR Detector Module	Panasonic	PNA4613M00XD-ND	DigiKey	\$1.72	\$1.72
1	J1	Female PC Mount DB-9	Norcomp	509F-ND	DigiKey	\$1.94	\$1.94
1	D1	Red LED	QT	HLMP-3300QT-ND	DigiKey	\$0.23	\$0.23
2	D2, D3	Green 90 Deg LED w/ Mount	Lumex	LU20375-ND	DigiKey	\$0.84	\$1.68
1	D4	Infrared LED	Panasonic	LN66-ND	DigiKey	\$0.68	\$0.68
2	CDS1,CDS2	Photo Cells, Cadmium Sulfide	CDS	120301	JDR	\$0.69	\$1.38
1	SW1	Reset SW	Omron	SW425CT-ND	DigiKey	\$0.51	\$0.51
1	SW2	IR Mode Switch	CTS	CT2092LPST-ND	DigiKey	\$0.65	\$0.65
3	J2,J3,J4	Shrouded 3 pin Header			DigiKey	\$0.25	\$0.75
5	J5 - J8	3 pin headers	Sullins	S1011-36-ND	DigiKey	\$0.10	\$0.50
2	J11, J12	2 pin headers	Sullins	S1011-36-ND	DigiKey	\$0.10	\$0.20
1	C3	22uf 25V Electrolytic	Panasonic	P5438-ND	DigiKey	\$0.60	\$0.60
1	C2	10uf 25V Electrolytic	Panasonic	P5240-ND	DigiKey	\$0.21	\$0.21
2	C1, C9	4.7uf 16V Electrolytic	Panasonic	P5252-ND	DigiKey	\$0.21	\$0.42
1	U1	24 pin socket	Millmax	ED3324-ND	DigiKey	\$1.25	\$1.25
1	U5	8 pin socket	Millmax	ED3308-ND	DigiKey	\$0.42	\$0.42
1	LS1	Round Speaker	Panasonic	P9965-ND	DigiKey	\$4.44	\$4.44
1	JB1	2 pin keyed connector	Molex	WM2700-ND	DigiKey	\$0.58	\$0.58
1	U2	Heatsink	Aavid	HS213-ND	DigiKey	\$0.33	\$0.33
1	R18	20K 10T trimpot	Phillips	CT9W203-ND	DigiKey	\$1.65	\$1.65
8	R8-R11,R1-R3	330 ohm 1206 sm	Panasonic	P332FCT-ND	DigiKey	\$0.15	\$1.20
4	R20-R23	2.2K ohm 1206 sm	Panasonic	P2.20KFCT-ND	DigiKey	\$0.15	\$0.60
1	R16	100 ohm 1/4w	Yaego	100XBK-ND	DigiKey	\$0.10	\$0.10
1	R14	1K ohm 1/4w	Yaego	1.00KXBK-ND	DigiKey	\$0.10	\$0.10
1	R19	10K ohm 1/4w	Yaego	10.0KXBK-ND	DigiKey	\$0.10	\$0.10
1	R4	330 ohm 1/4w	Yaego	332XBK-ND	DigiKey	\$0.10	\$0.10

1	R7	3.3K ohm 1/4w	Yaego	3.32KXBK-ND	DigiKey	\$0.10	\$0.10
1	R15	50 ohm 1/4w	Yaego		DigiKey	\$0.17	\$0.17
1	C6	.001uf mono	Panasonic	P4898-ND	DigiKey	\$0.17	\$0.17
1	C7	.01uf mono	Panasonic	P4922-ND	DigiKey	\$0.17	\$0.17
2	C4,C5,C8, C10,C11	.1uf mono	Panasonic	P4923-ND	DigiKey	\$0.22	\$0.44
5		4-40 x 1/4" panhead		H342-ND	DigiKey	\$0.02	\$0.10
1		4-40 nut		H216-ND	DigiKey	\$0.01	\$0.01
1	D4	LED vertical mount holder			DigiKey	\$0.25	\$0.25

TOTAL \$96.30

Cricket Battery Pack

Quantity	Reference	Description	Manufacturer	Dist Part Number	Distributor	Price Each	Total
1	Battery	Nickel-Cad Batteries	Panasonic	P161-L032-ND	DigiKey	\$18.00	\$18.00
1		Suave Deoderant Container				\$1.49	\$1.49
1	SW2	SPDT Toggle SW	C&K	CKN1021-ND	DigiKey	\$3.75	\$3.75
1	PW1	2.5mm Power Jack,Panel MT	Image	AC1031-ND	DigiKey	\$2.01	\$2.01
1	RPW1	10 ohm 1W	Yaego	10W1-ND	DigiKey	\$0.27	\$0.27
1	PB1	2 pin Molex Conn.	Molex	WM2711-ND	DigiKey	\$1.01	\$1.01
2	PB1	molex pins	Molex	WM2200-ND	DigiKey	\$0.10	\$0.20
12		Inches Red 20 ga wire				\$0.05	\$0.60
12		Inches Black 20 ga wire				\$0.05	\$0.60
1		2" X 3" x 1/8" Black Acrylic				\$0.10	\$0.10

TOTAL \$28.03

Cricket Chassis

Quantity	Reference	Description	Manufacturer	Dist Part Number	Distributor	Price Each	Total
3		Servos	Cirrus	CS60	Hobby Shack	\$16.95	\$50.85
1		Lexan Chassis	HA	HA500345-002	HA	\$1.50	\$1.50
2		Micro Switches	Omron	SW143-ND	DigiKey	\$1.50	\$3.00
4		4-40 x 1/2" Standoffs		J241-ND	DigiKey	\$0.25	\$1.00

10		4-40 x 1/4" Pan head		H342-ND	DigiKey	\$0.05	\$0.50
6		4-40 nuts		H216-ND	DigiKey	\$0.05	\$0.30
5		Easy Connects	Du-Bro		Hobby Shack	\$0.50	\$2.50
4		Dura Collars 3/32"	Du-Bro		Hobby Shack	\$0.25	\$1.00
4		Dura Collar 1/16"	Du-Bro		Hobby Shack	\$0.25	\$1.00
24		Inches .047 Piano wire			Hobby Shack	\$0.01	\$0.24
18		Inches .025 Piano Wire			Hobby Shack	\$0.01	\$0.18
6		Plastic Wire Cover			Home Depot	\$0.10	\$0.60
6		3/8" Rubber Grommets	Richco	RP454-ND	DigiKey	\$0.20	\$1.20
48		Inches 1/4" Aluminum Tubing			Home Depot	\$0.05	\$2.40
6		.250 6-32 Hinged Standoffs		335K-ND	DigiKey	\$0.75	\$4.50
6		6-32 lock washers		H240-ND	Home Depot	\$0.05	\$0.30
6		6-32 x 1/4" pan head		H354-ND	Home Depot	\$0.10	\$0.60
2		1/2A horns	Du-Bro	NO.107	Hobby Shack	\$0.38	\$0.76
2		2-56 x 1/4" pan head		H330-ND	DigiKey	\$0.05	\$0.10
6		2-56 x 1/4" flat head			DigiKey	\$0.05	\$0.30
4		2-56 x 1/2" pan head		H334-ND	DigiKey	\$0.05	\$0.20
4		2-56 nuts		H212-ND	DigiKey	\$0.02	\$0.08
2		L shaped brackets	HA		HA	\$0.25	\$0.50
3		nylon wire ties			DigiKey	\$0.02	\$0.06
2		5/16" Spade connector		920044-07	DigiKey	\$0.10	\$0.20
1		1" x 4" Velcro Strips			Home Depot	\$1.40	\$1.40

TOTAL \$75.27

Cricket Accessories

Quantity	Reference	Description	Manufacturer	Dist Part Number	Distributor	Price Each	Total
1		M DB9 to F DB9 Download			DigiKey	\$5.00	\$5.00
1		9V charger			DigiKey	\$6.00	\$6.00
1		Documentation			HA	\$10.00	\$10.00
1		Remote Control			Frys	\$10.00	\$10.00

TOTAL \$31.00

GRAND TOTAL \$230.60