

Buchla Pulser & Inverter
Aaron Lanterman Rev 1 Layout

Qty	Reference	Description	Comments	Mouser PN
Semiconductors				
1	IC5	CD4001		CD4001BE
1	IC2	CD4016		CD40161BE
3	IC1,IC3,IC4	RC4558		RC4558P
5	D1,D3,D4,D5,D6	1N457	substitute 1N4148	512-1N4148
1	D2	1N5228	3.9V zener 500 mW	512-1N5228B
1	Q1	2N1711	substitute 2N3904	512-2N3904BU
Capacitors				
1	C5	100 pf	2.5mm LS; bend to fit	80-C315C101J5G
4	C2,C3,C4,C110	910 pf	substitute 1000 pf	80-C315C102J5G
8	C102,C103,C104,C105, C106,C107,C108,C109	0.1 uf ceramic	2.5mm LS; bend to fit 5mm LS	147-72-104-RC
1	C1	0.22 uf	5mm LS	80-R82EC3220DQ70J
2	C100,C101	10 uf 35V electrolytic	2mm LS	647-UKL1V100MDDANA
Resistors; 1/4W 1% metal film				
2	R7,R28	100R	R28 labeled 6K8 on PCB and schematic	271-100-RC
1	R35	220R		271-220-RC
1	R10	1K		271-1K-RC
2	R4,R22	2K2	R11 labeled R22 6K8 on PCB and 6K8 on schematic	271-2.2K-RC
1	R103	3K3		271-3.3K-RC
2	R15,R20	4K7		271-4.7K-RC
3	R8,R12,R21	6K8		271-6.8K-RC
2	R2,R3	10K		271-10K-RC
1	R1	24K9		271-24.9K-RC
1	R33	33K		271-33K-RC

3 R32,R34,R104	91K		271-91K-RC
4 R6,R14,R31,R39	100K		271-100K-RC
4 R105,R106,R107,R108	120K		271-120K-RC
3 R17,R18,R19	150K		271-150K-RC
1 R41	200K		271-200K-RC
1 R13	220K		271-220K-RC
2 R36,R109	390K		271-390K-RC
1 R11	680K	R11 labeled R22 on PCB	271-680K-RC
1 R5	820K		271-820K-RC
1 R37	1M5		271-1.5M-RC
1 R9	4M7	5% carbon	291-4.7M-RC
1 R38	6M8	5% carbon	291-6.8M-RC

Miscellaneous

2 Bead	Ferrite Bead		623-2743001112LF
1 TRIM	5K trimmer	19 turn; in-line; top screw	72-T93YA-5K
1 J1	0.156 MTA 4 pin header	MOTM power connector	571-6404454
4 (added to PCB)	0.1 MTA 2 pin header	use for LIN, INVO, LED, CV	571-6404542
3 (added to PCB)	0.1 MTA 3 pin header	use for LCV, LOS, switch	571-6404543
3 IC1,IC3,IC4	8 pin DIP socket	use for RC4558	517-4808-3000-CP
2 IC2,IC5	14 pin socket	use for CD4001, CD4016	517-4814-3000-CP

Panel Components

2 LCV,LOS	10K potentiometer		
1	On-Off-(On) SPDT	Flatted handle mini switch	633-M201902-RO
2	0.156 MTA 4 pin connector	Power cable	571-3-640426-4
2	0.156 MTA 4 pin dust cover	Power cable	571-6405514
4	0.1 MTA 2 pin connector	LIN, INVO, LED, CV	571-3-640441-2
4	0.1 MTA 2 pin dust cover	LIN, INVO, LED, CV	571-6405502
3	0.1 MTA 3 pin connector	LCV, LOS, switch	571-3-640441-3
3	0.1 MTA 3 pin dust cover	LCV, LOS, switch	571-6405503
1	Lumix green LED	Digikey 67-1156-ND	