

Buchla Timbre & Crossfader
Aaron Lanterman Rev 1 Layout

Qty	Reference	Description	Comments	Mouser PN
Semiconductors				
7	IC1,IC2,IC3,IC4,IC5,IC6,IC7	RC4558		RC4558P
3	D1,D2,D3	1N457	substitute 1N4148	512-1N4148
1	Q5	2N3906		512-2N3906BU
1	Q6	J201	substitute MPF102; Fairchild designated end of life	512-MPF102
Capacitors				
1	AC3	47 pf	2.5mm LS; bend to fit	80-C315C470J5G
1	C6A	910 pf	substitute 1000 pf	80-C315C102J5G
1	C1	0.01 uf	2.5mm LS; bend to fit	80-C330C103J5G
14	C100,C101,C102,C103,C104 C105,C106,C107,C108,C109, C110,C111,C112,C113	0.1 uf ceramic	5mm LS	147-72-104-RC
2	C3,C4	10 uf 35V electrolytic	2mm LS	647-UKL1V100MDDANA
1	C2	15 uf 35V electrolytic	2mm LS	647-UKL1V150MDDANA
Resistors; 1/4W 1% metal film				
3	R35A,OR48A,OR121	220R	R48A,R121 optional	271-220-RC
1	R34A	680R		271-680-RC
8	R23,R31A,R100,R106, R112,R114,OR115, OR122	1K	R100 part of 13.5V source R106 part of 13.5V source R115, R122 optional	271-1K-RC
1	R32A	1K5		271-1.5K-RC
1	R36	2K2		271-2.2K-RC
2	R45A,R47	4K7		271-4.7K-RC
5	R22,R25,R33A,R59, R117	10K		271-10K-RC
3	R30A,OR1A,OR119	15K	R1A,R119 optional	271-15K-RC
1	R35	18K		271-18K-RC
1	R37	30K		271-30K-RC

3 R19,R20,R45	33K		271-33K-RC
4 R28,R29,R39,R40	49K9		271-49.9K-RC
2 R17,R41	68K		271-68K-RC
3 R38,OR47,OR120	75K	R47, R120 optional	271-75K-RC
3 R31,R101,R107	91K		271-91K-RC
3 R26,R113,R115	100K		271-100K-RC
8 R102,R103,R104,R105, R108,R109,R110,R111	120K		271-120K-RC
1 R24	130K		271-130K-RC
6 R27,R30,R32,R34,R42,R44	150K		271-150K-RC
1 R46	240K		271-240K-RC
1 R21	330K	adjust value for proper VCA operation	271-330K-RC
1 R33	390K		271-390K-RC
1 R18	680K		271-680K-RC
1 R43	1M5		271-1.5M-RC

Miscellaneous

2 Bead	Ferrite Bead		623-2743001112LF
1 TRIM	100K trimmer	19 turn; in-line; top screw	72-T93YA-100K
1 VT1	VTL5C3 vactrol	Allied 980-0710	
1 J1	0.156 MTA 4 pin header	MOTM power connector	571-6404454
5	0.1 MTA 2 pin header	use for TCVI,, A1I, A2I, WCVI, & MXO	571-6404542
4	0.1 MTA 3 pin header	use for TVC, TOS, WCV, & WOS	571-6404543
7 IC1,IC2,IC3,IC4,IC5,IC6,IC7	8 pin DIP socket	use for RC4558	517-4808-3000-CP

Panel Components

4 TOS,TCV,WOS,WCV	10K potentiometer		
1 Filter	On-None-On SPDT	Flatted handle mini switch	1055-TA2130-EVX
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
5	0.1 MTA 2 pin connector	TCVI, A1I, A2I, WCVI, & MXO	571-3-640441-2
5	0.1 MTA 2 pin dust cover	TCVI, A1I, A2I, WCVI, & MXO	571-6405502
4	0.1 MTA 3 pin connector	TVC, TOS, WCV, & WOS	571-3-640441-3
4	0.1 MTA 3 pin dust cover	TVC, TOS, WCV, & WOS	571-6405503