

SYNTHESIZER

KORG 800DV (K-3)

SERVICE MANUAL

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PART LIST (1~5)

BLOCK DIAGRAM

SBC-049 CIRCUIT BOARD

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SBC-051 CIRCUIT BOARD

POWER SUPPLY CIRCUIT BOARD

OVERALL CIRCUIT DIAGRAM

KEIO ELECTRONIC LAB., CORP.
TOKYO, JAPAN

PART LIST

Parts No.	Description	Parts No.	Description
SB049 Printed Circuit Board		140-50101	50V-1 μ F
Parts		Polyester Film Capacitors $\pm 10\%$	
FET		130-01102	50V 0.001 μ F
110-04001	2SK-30	-01103	0.01
Transistors		-01473	0.047
110-05006	2SA-608(G)	Disc Type Ceramic Capacitors	
-05007	2SC-693(G)	135-1470	50V 47PF
IC			
111-05002	μ A 741C	Semifixed Resistors	
Fixed Carbonfilm Resistors $\frac{1}{4}$ W 5%			
120-02100	10 Ω	160-05502	B- 500 Ω
-02101	100 Ω	-05103	B- 5K Ω
-02151	150 Ω	-05503	B- 50K Ω
-02102	1 Ω	-05504	B-500K Ω
-02152	1.5K Ω		
-02222	2.2K Ω	SB-03B Printed Circuit Board	
-02332	3.3K Ω	Parts	
-02472	4.7K Ω	FET	
-02682	6.8K	110-0	2SK-30 GR
-02103	10K	Metalfilm Resistor $\frac{1}{8}$ W 1%	
-02123	12K	122-13430	43 Ω
-02153	15K	-13400	40 Ω
-02183	18K	-13623	6.2K
-02223	22K	-13751	750 Ω
-02273	27K	-23510	$\frac{1}{2}$ ~1W 510 Ω
-02333	33K	Fixed Carbonfilm Resistors $\frac{1}{4}$ W 5%	
-02473	47K	120-02223	22K
-02104	100K	-02473	47K
-02224	220K	-02472	4.7K
-02474	470K	Fixed Resistors $\frac{1}{4}$ W 5%	
-02105	1M Ω	123-02106	10M Ω
Fixed Resistors 5%			
123-02225	2.2M		
123-02106	10M Ω		
Tantalum Electrolytic Capaitors			
143-16470	$\pm 10\%$ 16V-47 μ F		
-16221	$\pm 10\%$ 16V-2.2 μ F		
-16102	$\pm 10\%$ 16V-10 μ F		
Aluminum Electrolytic Capacitors			
140-25102	25V-10 μ		

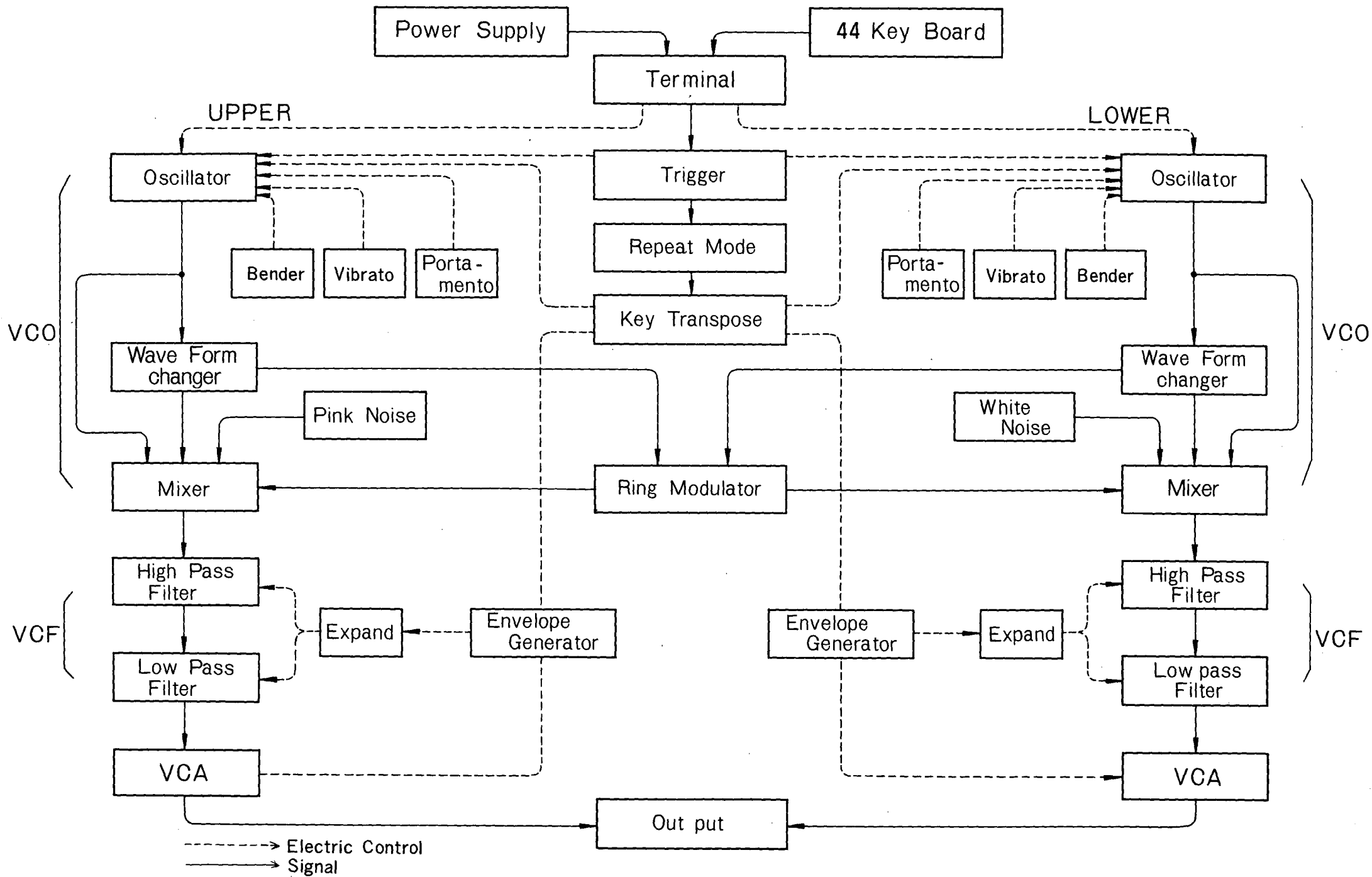
Parts No.	Description	Parts No.	Description
SB-020G Printed Circuit Board Parts		SB05I Printed Circuit Board Parts	
		FET	
Transistors		110-04001	2SK-30
110-05004	2SA-699(Q)	Transistors	
-05005	2SC-1226(P)	110-05006	2SA-608(G)
-05008	2SA-720(O)	-05007	2SC-693(G)
-05006	2SA-608(G)	Diode	
-05007	2SC-693(G)	170-01004	1S-1555
Diodes		IC	
170-02002	1S-1941	111-05002	μ A741
-01004	1S-1555	Fixed Carbonfilm Resistors $\frac{1}{4}$ 5%	
Zener Diodes		120-02100	10 Ω
170-03002	02Z9.1	-02470	47 Ω
Aluminum Electrolytic Capacitors		-02101	100 Ω
140-50473	50V 470 μ	-02151	150 Ω
-25223	25V 220 μ	-02471	470 Ω
-16223	16V 220 μ	-02681	680 Ω
-16103	16V 100 μ	-02102	1K Ω
-50101	50V 1 μ	-02182	1.8K Ω
Fixed Carbonfilm Resistors $\frac{1}{4}$ W5%		-02222	2.2K Ω
120-02015	1.5 Ω	-02272	2.7K Ω
-02470	47 Ω	-02332	3.3K Ω
-02221	220 Ω	-02392	3.9K Ω
-02331	330 Ω	-02472	4.7K Ω
-02471	470 Ω	-02562	5.6K Ω
-02332	3.3K	-02682	6.8K Ω
-02472	4.7K	-02822	8.2K
-02682	6.8K	-02103	10K
-02103	10K	-02153	15K
-02333	33K	-02182	18K
Polyester Film Capacitors $\pm 10\%$		-02223	22K
130-01103	50V 0.1 μ F	-02333	33K
		-02473	47K
Semifixed Resistors		-02104	100K
160-05103	10K Ω B	-02274	270K
		-02824	820K
		-02105	1M Ω
		Fixed Resistor $\frac{1}{4}$ W5%	
		123-02225	2.2M Ω
		-02106	10M Ω

Parts No.	Description	Parts No.	Description
Fixed Carbonfilm Resistors $\frac{1}{4}$ W2%		110-05006	2SA-608(G)
120-03103	10K Ω	-05007	2SC-693(G)
-03153	15K Ω	Diodes	
-03303	33K Ω	170-01004	1S-1555
-03603	60K Ω	Zener Diodes	
-03124	120K Ω	170-03001	02Z 5.6A
-03244	240K Ω	Fixed Carbonfilm Resistors $\frac{1}{4}$ W \pm 5%	
Polystyrene Capacitors		120-02101	100 Ω
137-01721	7200PF	-02221	220 Ω
Disc Type Ceramic Capacitors		-02331	330 Ω
135-01101	50V 100PF	-02102	1K Ω
Polyester Film Capacitors \pm 10%		-02222	2.2K Ω
130-01472	50V 0.0047 μ F	-02332	3.3K Ω
-01473	0.047 μ F	-02472	4.7K
-01823	0.082 μ F	-02562	5.6K
-01104	0.1 μ F	-02682	6.8K
-01334	0.33 μ F	-02103	10K
Aluminum Electrolytic Capacitors		-02153	15K
140-50101	50V 1 μ	-02183	18K
-25102	25V 10 μ	-02223	22K
-16332	16V 33 μ	-02333	33K
-16104	16V 100 μ	-02473	47K
Tantalum Electrolytic Capacitors		-02104	100K
143-16101	16V 1 μ	-02224	220K
-16331	16V 3.3 μ	-02334	330K
IC		-02474	470K
111-05001	MN131A	Aluminum Electrolytic Capacitors	
112-01003	TS-201041	140-25102	25V 10 μ
Semifixed Resistors		-25223	25V 220 μ
160-05202	2K Ω	Tantalum Electrolytic Capacitors	
-05502	5K Ω	143-16330	16V 0.33 μ
-05103	10K Ω	-16470	16V 0.47 μ
-05503	50K Ω	-16102	16V 10 μ F
-05504	500K Ω	Disc Type Ceramic Capacitors	
SB050 Printed Circuit Board Parts		135-01101	50V 100PF
IC		130-01222	50V 0.0022 μ F
112-01002	TS-201012	-01223	50V 0.022 μ F
-01004	TS-200042	-01047	50V 0.047 μ F
Transistors			

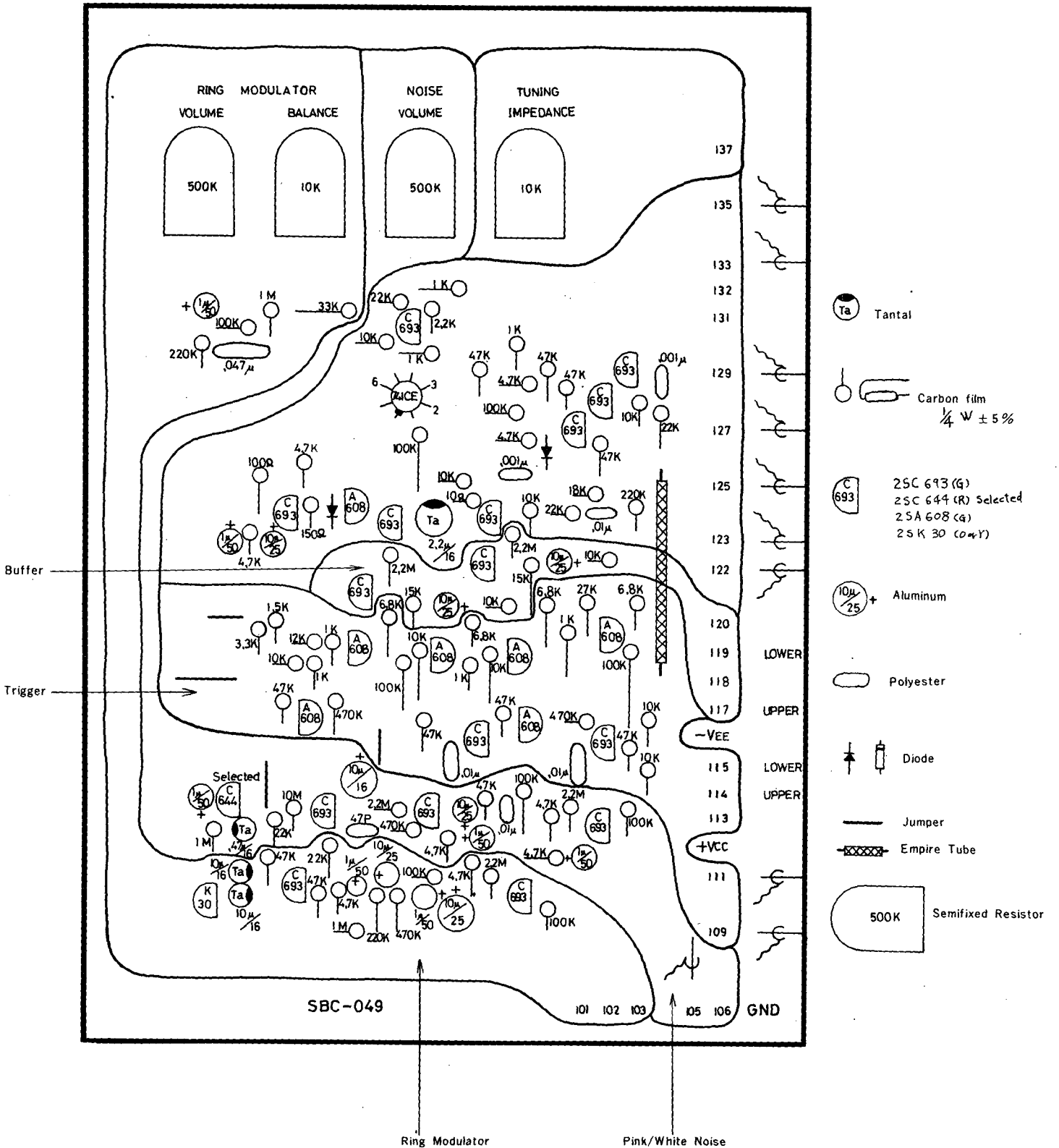
Parts No.	Description	Parts No.	Description
	Fixed Carbonfilm Resistors $\frac{1}{4}$ w $\pm 2\%$	212-01002	Key Board 44key
120-03472	4.7K Ω	Connector	
Semifixed Resistors		232-02001	Pin SI-2827
160-05501	500 Ω	-02002	Socket SI-2327
05502	5K Ω	Cord Clamp	
05503	50K Ω	412-02001	HP-2N
		-02002	HP-4 N
		Signal Cord	
		414-01001	2319
		Lug Board	
		233-01204	2L-4P
		KEIO IC	
		112-01001	TS-201012
		-01003	-201041
		-01004	-200042
		Lever Switch Knob	
		331-01003	Red, Orange, Grey, Blue, Green, White
		Slide VR Knob	
		331-01001	30mm
		-01002	60mm
		Rotary Switch Knob	
		331-02003	Small
		-02002	Medium

Parts No.	Description	Parts No.	Description
Slide volume		Rubber Foot	
251-01103	30mm 10KA	380-01001	No.5
-02103	10KB	351-01003	Music Rack
-02503	50KB	-01001~2	" Screw
-01104	100KA		
-01504	500 KA		
-01205	2MA	311-02001	Side Board (R)
252-02103	60mm 10KB	-02002	" (L)
		-02003	End Cover panel
Variable Resistors		241-02009	Cover No.1
250-02103	24 ϕ 20mm 10KB	-02010	" No.2
-02104	100KB	-02011	Top Board No.3
-06102	(W/tap) 1KB		
Rotary Switches		Power Transformer	
223-01246	20mm 2·4·6	190-04001	117VN54-4639PT
-01126	1·2·6	-04002	100V~240V-4640PT
		230-01001	Fuse Holder #850
Lever Switches		-02005	Fuse 0.5A
224-02430	(4-3) SLE-14304	-03005	pig-tail type 0.5A
-02230	(2-3) -12304	Power Supply Cords	
-02220	(2-2) -12202	410-01001	SP-T2 Two Wired
		-03003	AU ^{Two Wired} w/ground
Chassis		-03002	AF "
241-02001	Main Chassis	-03001	GE "
-02002	Front Chassis		
321-02001	Front panel	Cord Bushing	
241-02003	Circuit Board Rack No.1	412-01002	4K-4 SP-T2
-02004	" No.2	-01003	5P-4 SVT
-02005	" No.3		
-02006	" No.4	Power Switch	
241-02008	Radiator	221-01006	#063
		Pilot Lamp	
Mark Plate		370-01001	14V-30mA
321-02002	MAXI-KORG	Lamp Holder	
-02003	SYNTHESIZER KORG	370-02002	Green
-02004	K3	Phone Jack	
-02005	KORG 800 DV	234-01003	w/switch
-02006	OUT.	-01001	w/out switch
-02007	UNIVOX		

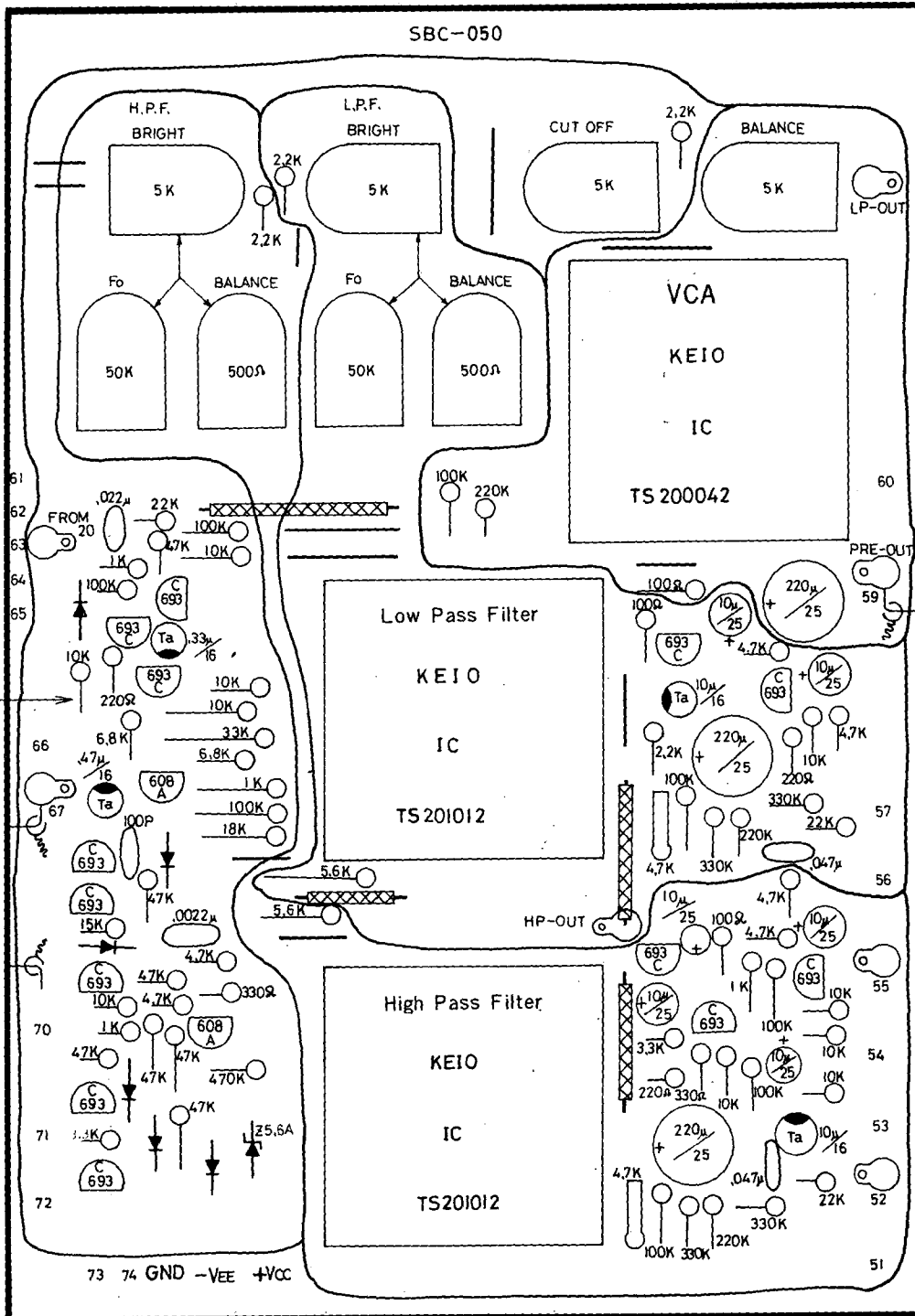
BLOCK DIAGRAM



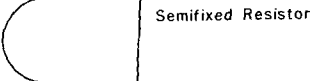
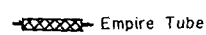
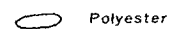
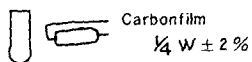
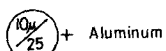
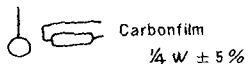
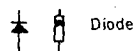
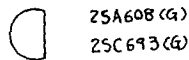
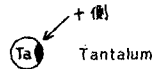
SBC-049 CIRCUIT BOARD



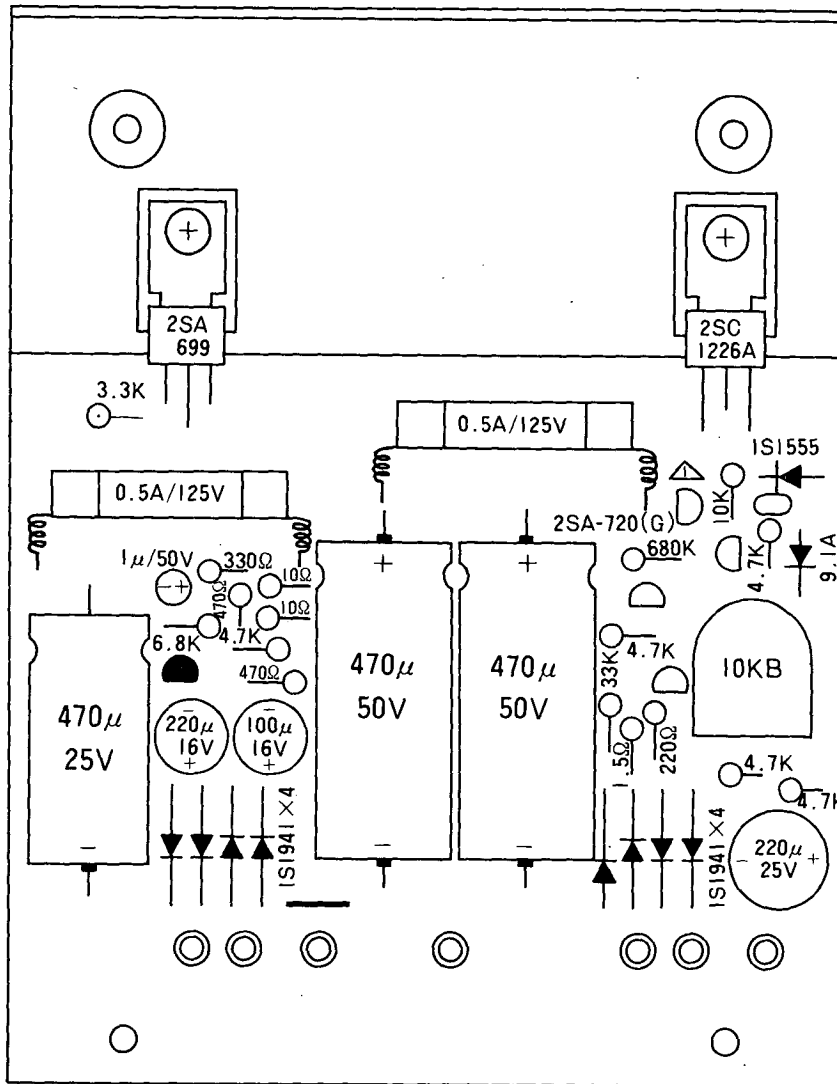
SBC-050 CIRCUIT BOARD



Envelope Generator

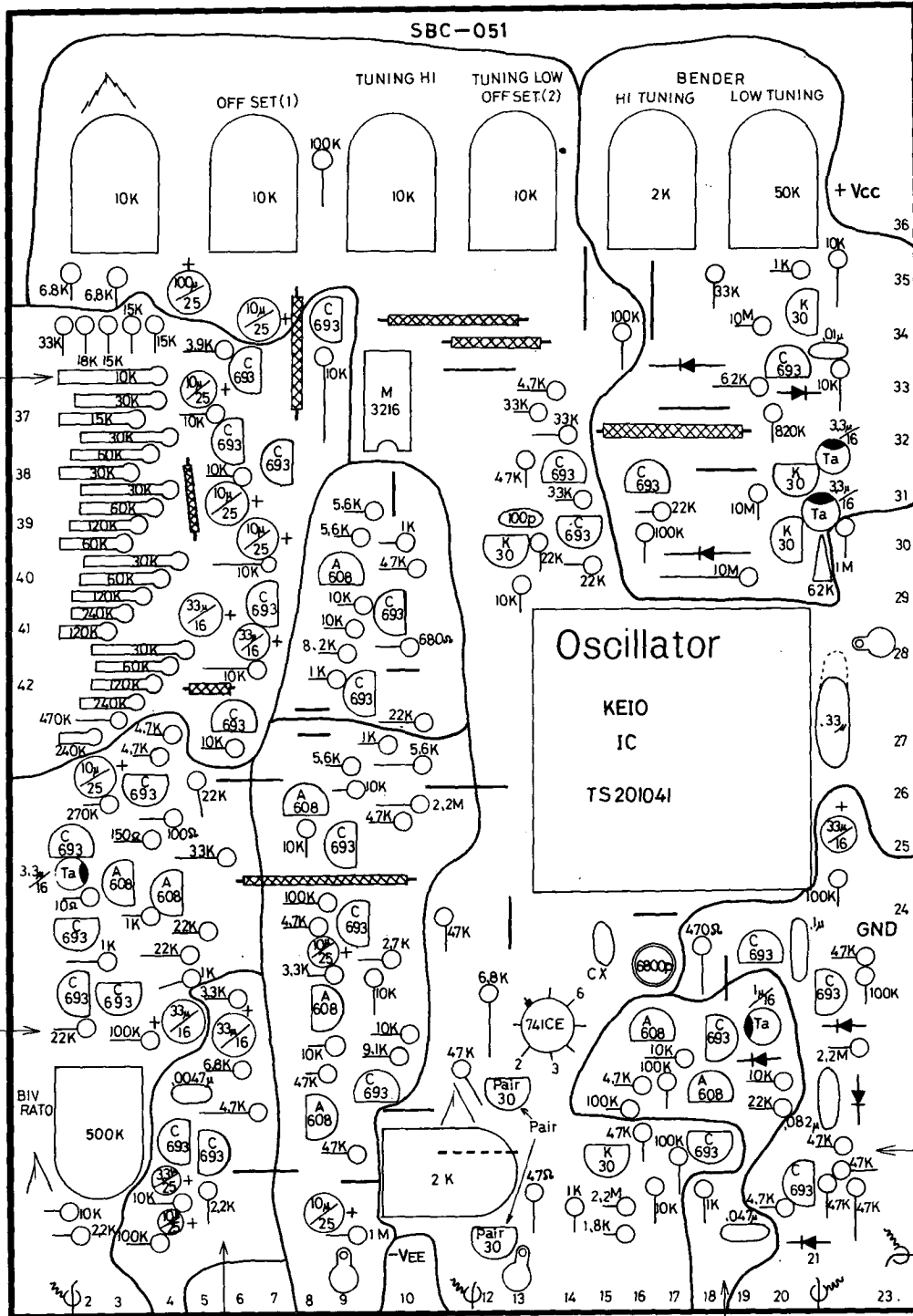


POWER SUPPLY CIRCUIT BOARD



- 2SA-699
- 2SC-1226A
- 470PF
- △
- D; 2SA 720(R)
- D; 2SC 693(G) F
- ; 2SA 608(G)

SBC-051 CIRCUIT BOARD

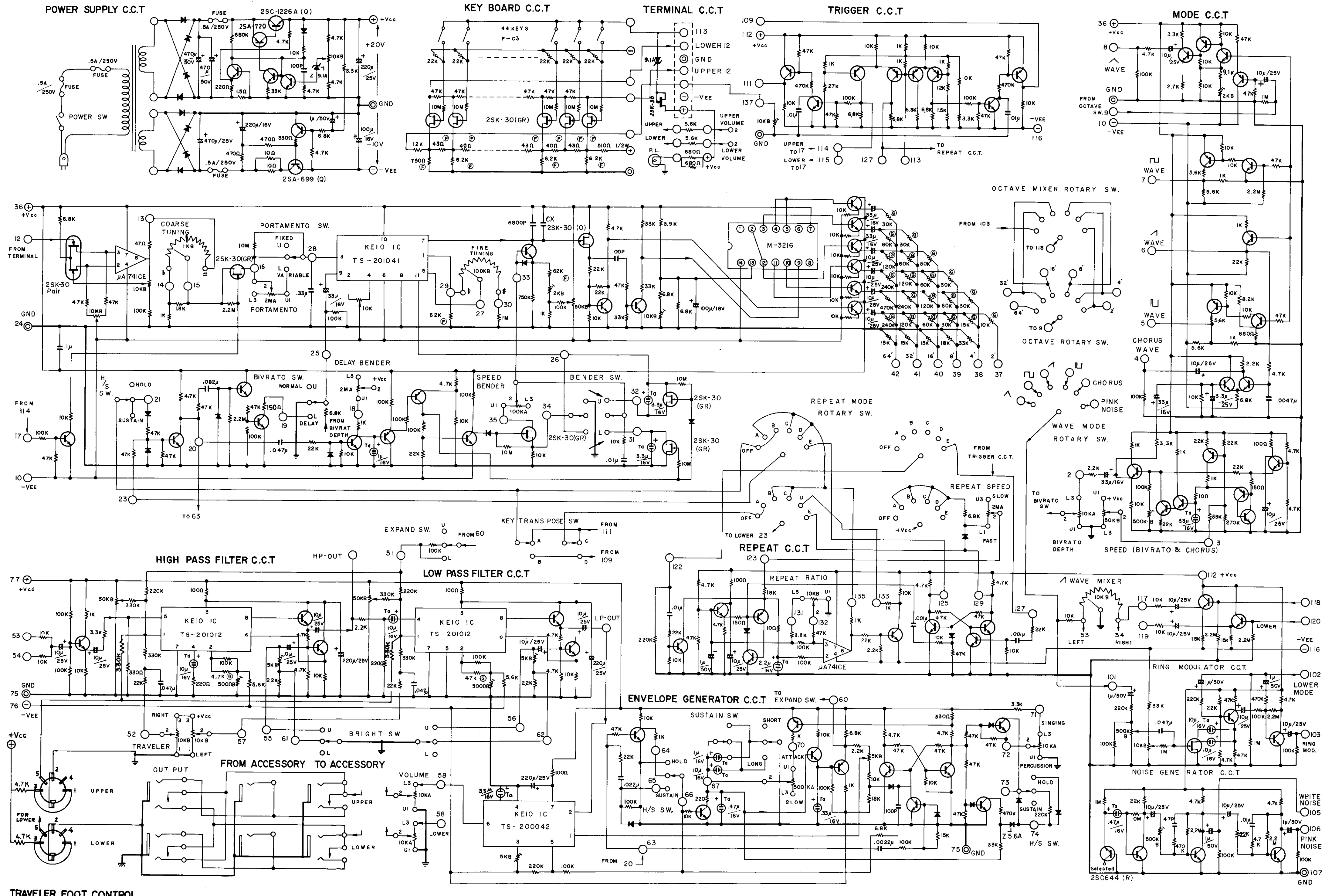


- 151555
- Tantalum
- 25A608 (G)
- 25C693 (G)
- 25K30 (A R)
- Metalfilm
- Carbonfilm $\frac{1}{4} W \pm 5\%$
- Carbonfilm $\frac{1}{4} W \pm 2\%$
- Jumper
- Empire Tube
- Aluminum
- Polystyrene
- Polyester
- Semifixed Resistor
- Trig Detect

Chorus

Bender

OVER ALL CIRCUIT DIAGRAM



TRAVELER FOOT CONTROL