

YAMAHA

COMBO SYNTHESIZER

CS-50



SERVICE MANUAL

INDEX

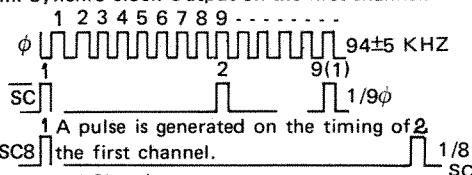
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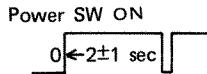
KEY CODER LSI (YM26600)

The LSI detects what keys are held down by judging the pulse combination of the octave and note. It also generates the seven bit key code, which is processed by time sharing, in accordance with the key held down.

- Pin. Pin
No. Name
1. VSS +8.5V Power Supply
2. ϕ Master Clock Input
3. SC Synchro-clock Output
4. SC8 Synchro-clock Output on the first channel.



5. IC Initial Clear Input

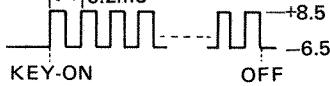


On this timing, C4# code is memoried.

6. VDD -6.5V Power Supply Input

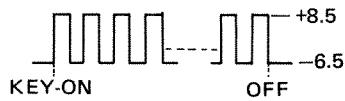
7. CL } Note on data input
8. C# }

19. C } When the key is depressed, the pulse is supplied to the corresponding pin of the note.
When the key is depressed, the pulse is supplied to the corresponding pin of the note.



20. V1 } Octave on data input
24. V5 }

- When the key is depressed, the pulse is supplied to the corresponding pin of the octave.



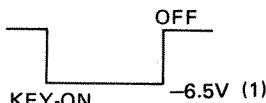
25. N1 } Note code data output
28. N4 }

	C#	D	D#	E	F	F#	G	G#	A	A#	B	C
N	1	0	1	1	0	1	1	0	1	1	0	1
N	1	1	0	1	1	0	1	1	0	1	1	0
N	1	1	1	0	0	0	1	1	1	0	0	0
N	1	1	1	1	1	1	0	0	0	0	0	0

29. B1 } Octave Code Data Output
31. B3 }

	C2	C2#~C3	C3#~C4	C4#~C5	C5#~C6
B1	0	1	0	1	0
B2	1	0	0	1	1
B3	1	1	1	0	0

32. KO1 } Key on Data Output
39. KO8 }



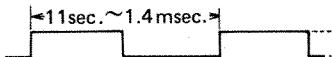
The number of note sounded is variable by using this pin.
i.e.) Up to 4 notes: Supply -6.5V to KO5.
Up to 3 notes: Supply -6.5V to KO4.

40. Mode Switching output for sound model
For 8 notes Supply -6.5V (1)
For 7 notes Supply +8.5V (0)

KEY ASSIGNER & D-A CONVERTER LSI (YM26700)

The time shared key data is supplied to the LSI. Analog DC voltage is produced in corporation with key by the data and supplied to each channel.

1. VSS +8.5V Power Supply
2. SC8 Synchro-clock input on the first channel.
3. POR Portamento and Glissando operation. When the portamento VR is turned on, +8.5V is supplied to the pin and actuate.
4. PC Clock input for Portament and Glissando operation.



The frequency is variable by changing the portamento VR.

5. N1 } Note code data input
N2 } Note code data is supplied to the pins from
key coder LSI.
8. N4 }
9. B1 } Octave code data input
B2 } Octave code data is supplied to the pins from
key coder LSI.
11. B3 }
12. OO Output for octave key voltage. (8ch time sharing)
Provided the output key voltage for the octave selected from octave code.

13. OCT0 } Input for octave key voltage
OCT1 }

18. OCT5 * TU pin: 4.0V

	OCT0	OCT1	OCT2	OCT3	OCT4	OCT5
Voltage	0.25V	0.5V	1.0V	2.0V	4.0V	4.0V

The voltage of TU line is divided by the ladder composed resistors and supplied to each pin constantly.

19. C# } Input for note key voltage
C }

- OO pin: 4.0V

	C#	D	D#	E	F	F#
Voltage	2.119	2.245	2.378	2.520	2.670	2.828

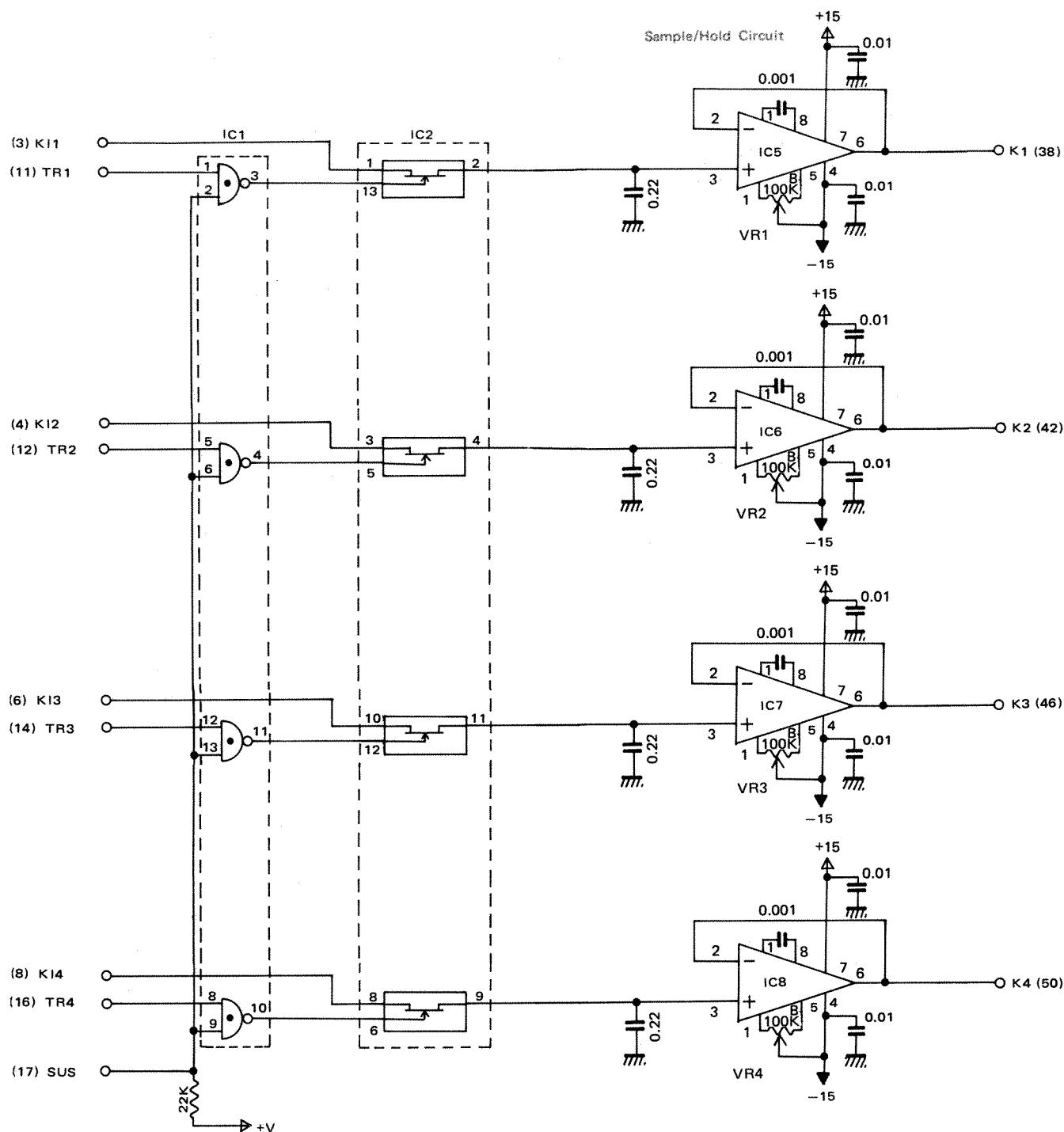
	G	G#	A	A#	B	C
Voltage	2.997	3.175	3.364	3.564	3.775	4.0V

The voltage of OO line is divided by the ladder composed resistors and supplied to each pin constantly.

31. CH8 } Key voltage output
CH9 }
38. CH1 } The output of voltage determined by each key is provided in accordance with the channel key code.

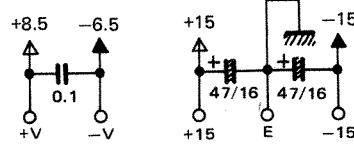
39. VDD -6.5V Power Supply, Input
40. ϕ Master Clock Input f=94±5KHz

SH (Sample Hold) Circuit

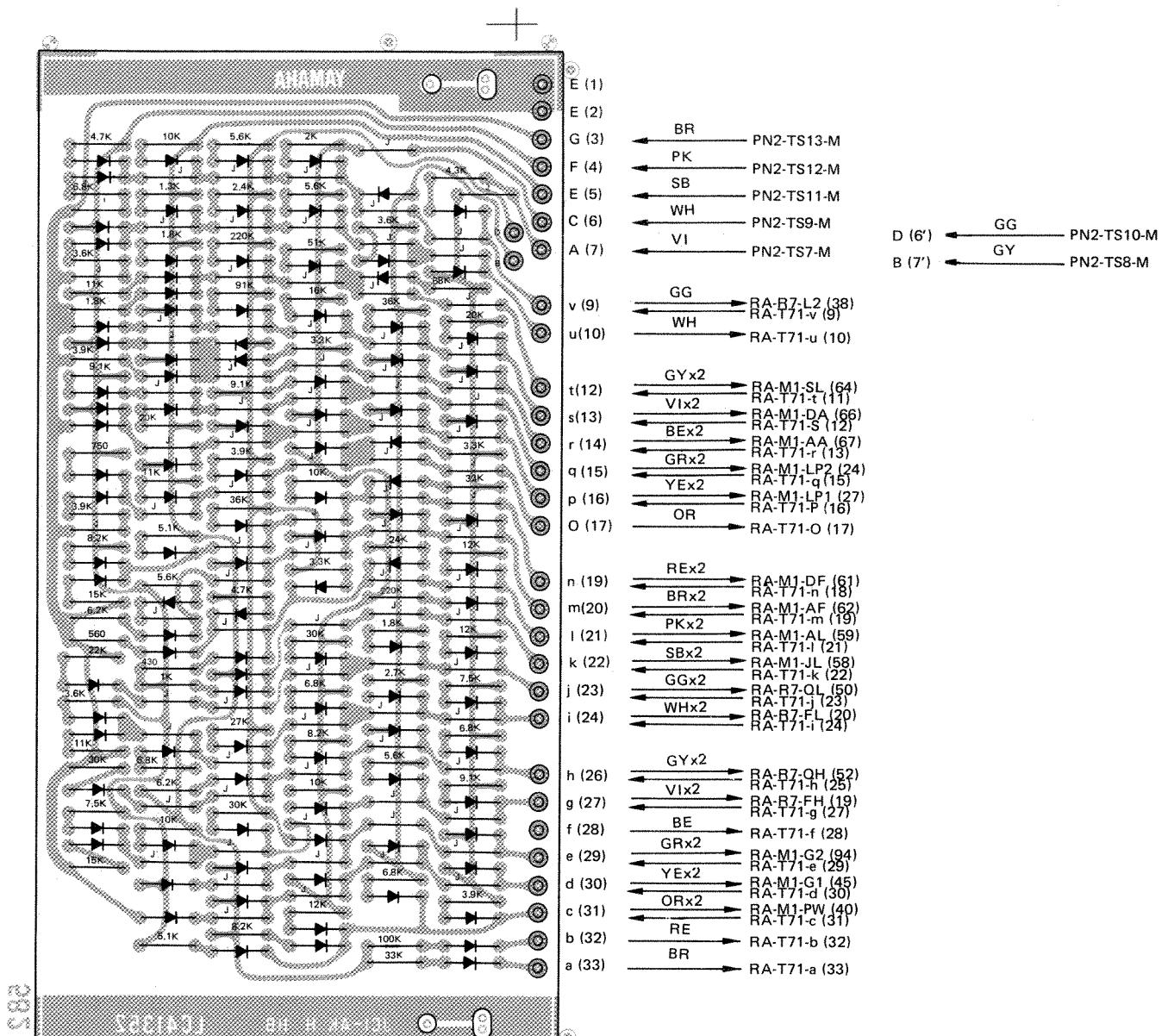


Note)

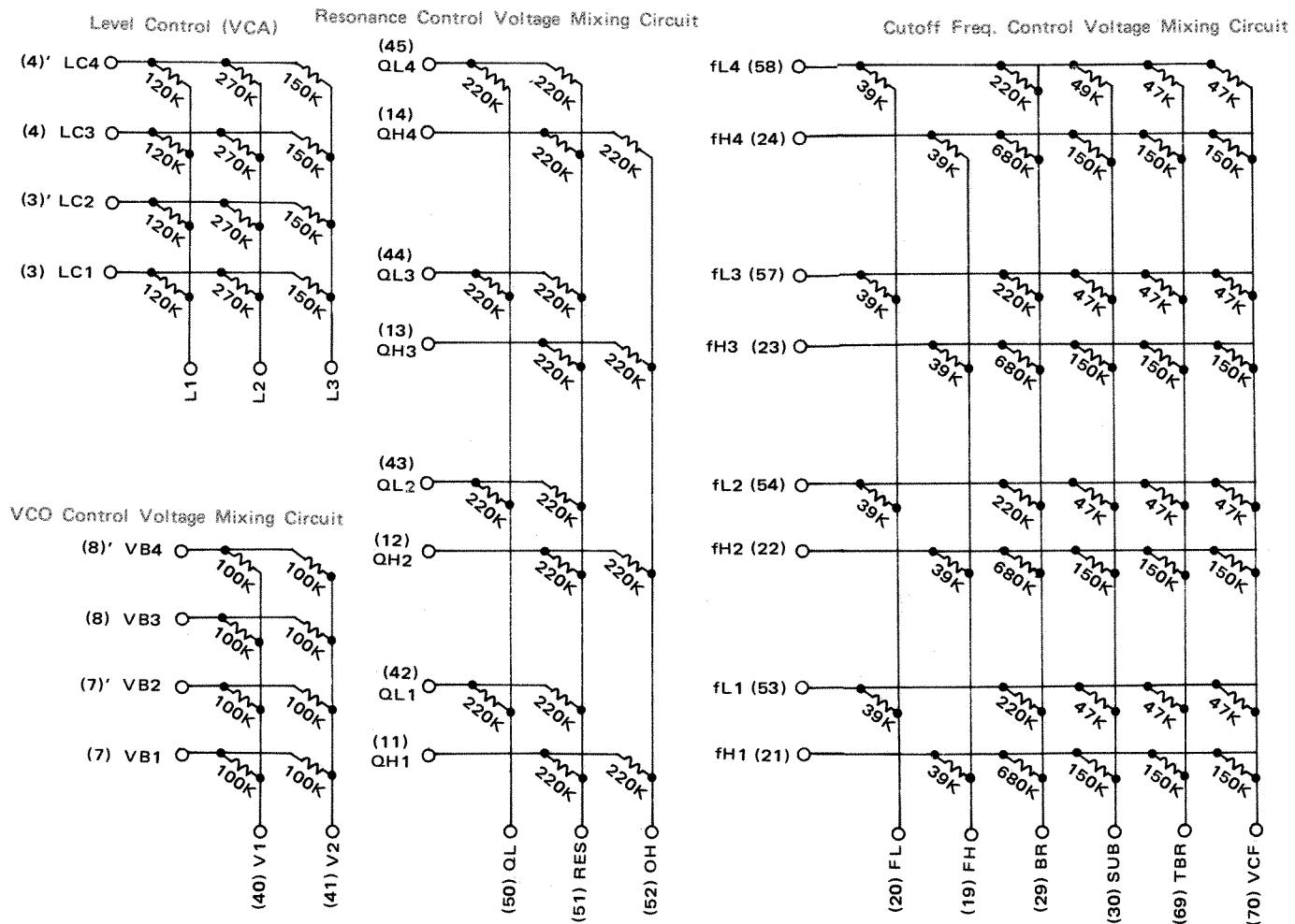
1. IC1,3 : TC4011P
IC2,4 : TC4016P
Power Supply of IC
7 Pin -V
14 Pin +V
2. Capacitor
0.1 Ceramic Capacitor
0.22 ... Mylar Capacitor
47/16... Electrolytic Capacitor



T72 Circuit Board



R7 (Register) Circuit



VCO III IC (IG00153)

This IC is used for voltage controlled oscillator.
Many different frequencies are produced by the voltage supplied.

1. FT Resistor for determination of the feet.
The electric current is provided to the pin from transposition changing circuit so that the octave can be determined.

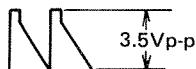
2. KV Input of the key voltage
The input of the voltage is provided to the pin in corporation with the keys held down.

High voltage High frequency
Low voltage Low frequency

Input Voltage	Output Frequency
0.250V	130.8Hz (C2)
0.500V	261.6Hz (C3)
1.000V	523.2Hz (C4)
2.000V	1046.0Hz (C5)
4.000V	2093.0Hz (C6)

Transposition "normal"

3. } OFF-SET Zero adjustment of input buffer circuit
4. }
5. Vee -15V input power source.
6. Com Phase compensation for input buffer amplifier.
Normally, the output (KV + 1V) is supplied to the pin.
7. OUT Output



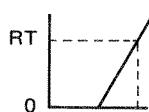
Asto the frequency, refer to the Pin No.2 (KV).

8. GND Earth
9. Vref Input of the standard voltage.
10. CT Circuit for time constant.

The following wave shape is produced.



11. RT Circuit for time constant.



Determines the discharging voltage level.

12. T1 Input for the comparator.
Input of the wave shape (NN) is provided. from the pin no. 14 (TO).

14. TO Output from time constant circuit.
NN The following wave shape is produced.
15. VIB Input for vibrato control wave.
Input of the control wave is provided by VCO lever of SUB-OSC.
16. Vcc +15V input power source.

VCF IC (IG00156)

1. AI Signal Input
Input signals from VCO and WSC are provided to this pin.

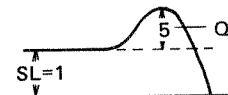
2. KV Key voltage input
In order to change the tone color according to the tone range of keyboard, the designated voltage of the key will be supplied to the pin. (0.25-4.0V)

3. fc Adjustment of the cut off frequency.
Set the control currency of the cut off frequency.

4. Vf Input of the cut off voltage.
Input voltage of cut off frequency is supplied to this pin so that the tone color can be changed. The center point of the cut off frequency can be also set.

When the VK is 0.25V and Vf is 5V, the cut off frequency is set to just 1KHz.

5. Vcc +15V input power source
6. Q0 Q adjustment.
The Q control current sets the Q equal to 5, when Vq is 0 volt.



7. Vq Input of the voltage for Q control.
Q is variable according to the control voltage supplied.
When the control voltage is 0V (Max.), Q=5
When the control voltage is 10V (Min.), Q=0.5

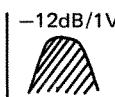
8. GND Earth
9. FB Q feed back
This is the feed back output pin for the Q control by which the Q is determined.

10. LP Low-pass output



The output of lower frequencies are produced.

11. C2 C pin for determination of the cut off frequency.
12. Vee -15V power source.
13. BP Band-pass output.



The output of intermediate frequencies are produced.

14. C1 C pin for determination of the cut off frequency.
15. HP Hi-pass output



The output of higher frequencies are produced.

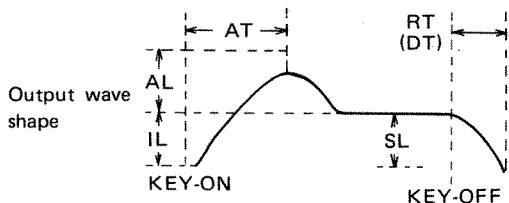
16. IN Input of feed back
The input signal for determination of cut off frequency.

VCF-EG IC (IG00152)

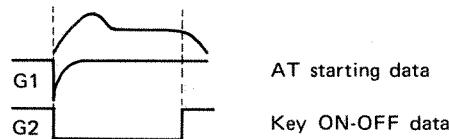
This IC generates envelope wave shape which is supplied to VCF and control the tone color.

1. NC Not connected
2. BI Input of buffer amplifier.
3. OUT Output of buffer amprifier.

The buffer amplifier is built in for the purpose of matching impedance.

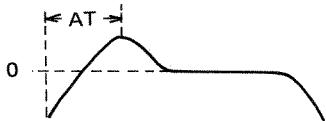


4. GND Earth
5. Vcc +15V input power source.
6. G1 Gate 1
7. G2 Gate 2

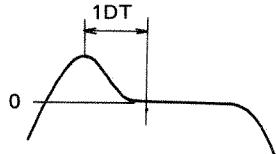


8. Vee -15V input power source.
9. AT Input of buffer voltage for determination of the attack time.

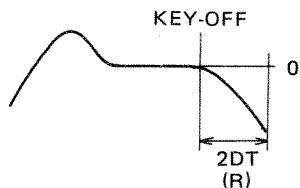
Input of the voltage between zero V and 10V is provided and the attack time is controlled from 1 mS until 1S.



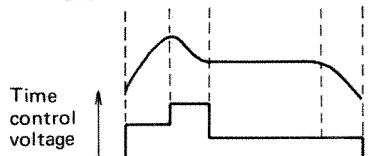
10. 1DT Input of buffer voltage for determination of the decay time.
- Input of the voltage between zero V and 10V is provided and the first decay time is controlled from 10mS until 10 S.



11. 2DT Input of buffer voltage for determination of the release time.
- Input of the voltage between zero V to 10V is provided and the time from KEY-ON until release is controlled from 10m second until 10 second.

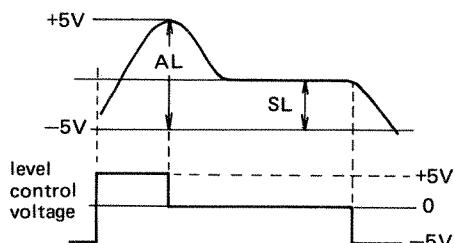


12. TC Output of the time control.
- Output of DC voltage is produced so that the each time of attack, 1DT and 2DT are controlled.



The higher the voltage, the shorter the time and the lower the voltage the longer the time.

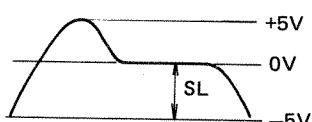
13. LC Output of level control.



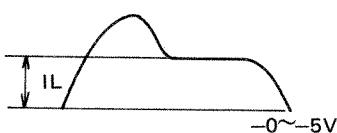
The higher the voltage, the higher the level and the lower the voltage the lower the level.

15. SL Input of buffer voltage for determination of the sustain level.

Normally fixed to zero(0) volt.



16. IL Input of buffer voltage for determination of the initial level.
- Input of the voltage between zero (0) and ten (10) is provided and the initial level is controlled from zero to minus 5 volt.



YAMAHA

COMBO SYNTHESIZER

C S - 5 0

P a r t s L i s t

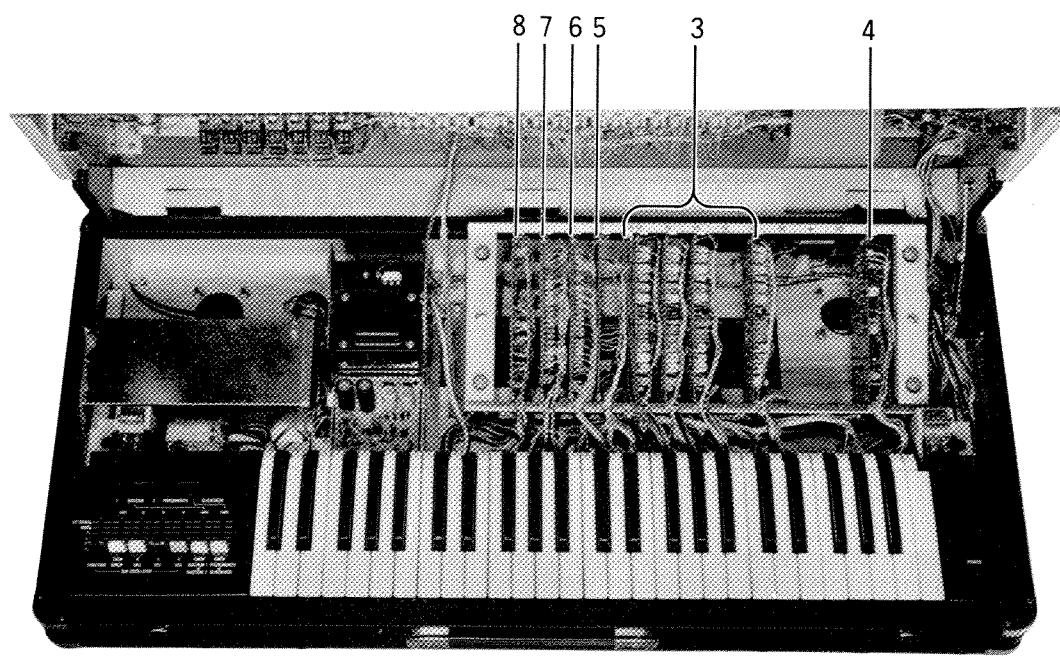
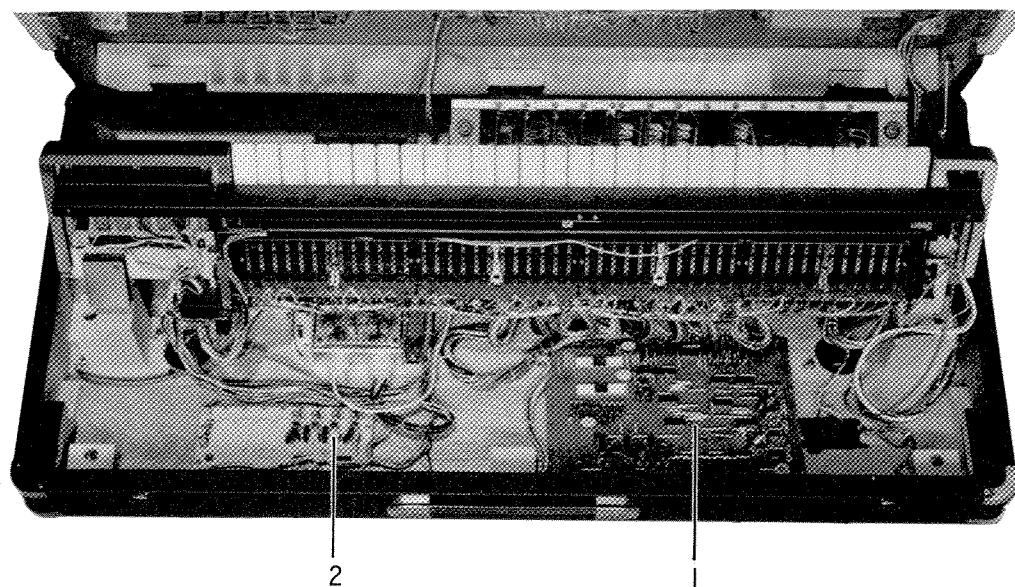


C O N T E N T S

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1. Circuit Boards & Components (シート及びシート部品) CS-50(S/# 1001~)

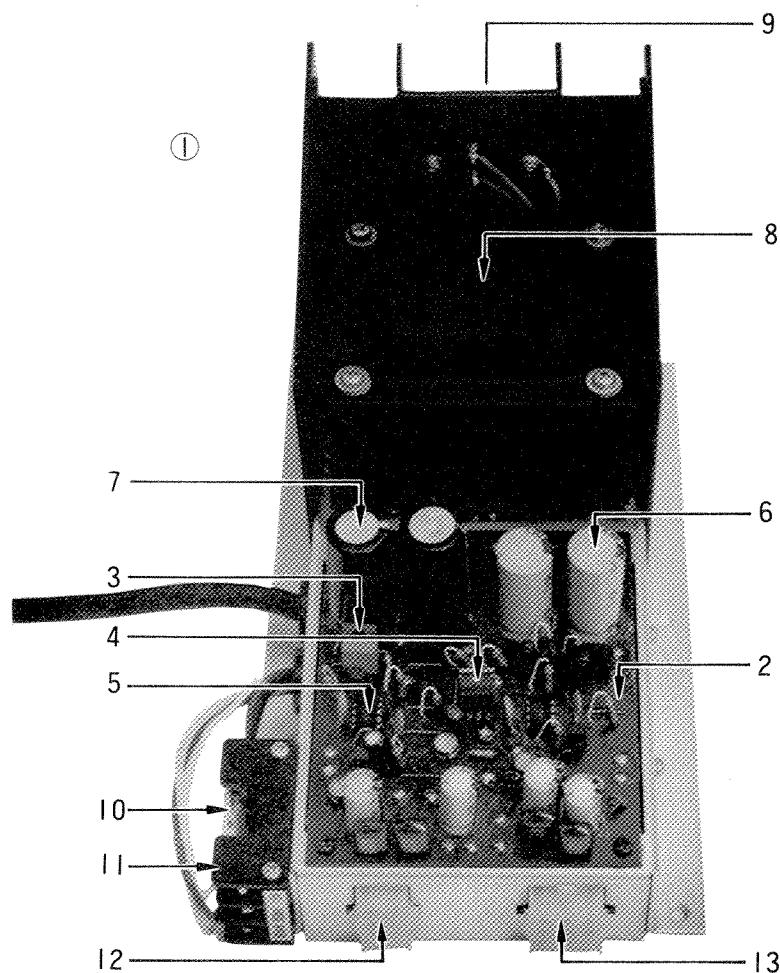


Ref. No.	Part No.	Description		Remarks	Common Models	
1	30 12 50 NA 03 65 00	KAS	Circuit Board	#21264	KAS シート	
2	30 12 50 NA 03 79 20	SH	--do.--	#22542	SH シート	
3	30 12 50 NA 04 48 50	M	--do.--	#21233	M シート	CS-60
4	30 12 50 NA 04 48 60	PRA	--do.--	#41383	PRA シート	
5	30 12 50 NA 04 48 10	SUB	--do.--	#41336	SUB シート	
6	30 12 50 NA 04 48 40	R7	--do.--	#41361	R7 シート	
7	30 12 50 NA 04 47 20	T71	--do.--	#21183	T71 シート	
	30 12 50 NA 04 48 30	T72	--do.--	#41352	T72 シート	
	30 10 00 YM 26 60 00	LSI	YM26600		L S I	
	30 10 00 YM 26 70 00	--do.--	YM26700		L S I	
	40 10 00 iG 00 10 40	Integrated circuit	TA7504M		"	
	40 10 00 iG 00 12 10	--do.--	LM310		I C	
	40 10 00 iG 00 12 40	--do.--	TC4011P		"	
	40 10 00 iG 00 12 60	--do.--	TC4069P		"	
	40 10 00 iG 00 13 90	--do.--	NJM4558D		"	
	40 10 00 iG 00 14 10	--do.--	BA617		"	
	40 10 00 iG 00 15 00	--do.--	IG00150		VCOII	
	40 10 00 iG 00 15 10	--do.--	IG00151		VCA	
	40 10 00 iG 00 15 20	--do.--	IG00152		EG-VCF	
	40 10 00 iG 00 15 30	--do.--	IG00153		VCOIII	
	40 10 00 iG 00 15 60	--do.--	IG00156		VCF	
	40 10 00 iG 00 15 80	--do.--	IG00158		WSC	
	40 10 00 iG 00 15 90	--do.--	IG00159		EG-VCA	
	40 10 00 iG 00 16 20	--do.--	MA796HC		"	
	40 10 00 iG 00 16 90	--do.--	TC4016P		"	
	40 10 00 iG 00 17 90	--do.--	TC4050P		"	
	40 10 00 iG 00 22 20	--do.--	CA3140T		"	
					"	
	40 10 00 iA 04 90 20	Transistor	2SA490	トランジスタ		
	40 10 00 iA 05 61 70	--do.--	2SA561	"		
	40 10 00 iC 04 58 80	--do.--	2SC458	"		
	40 10 00 iD 02 34 30	--do.--	2SD234	"		
					"	
	40 10 00 iE 00 00 10	FET	2SK30	F E T		
					"	
	40 10 00 iF 00 00 40	Diode	IS1555	ダイオード		
	40 10 00 iF 00 03 00	--do.--	IS1715P	"		
	40 10 00 iF 00 04 20	Zener diode	0Z5.6A	ツエナー		
					"	
	40 10 00 HU 36 53 00	Metal film resistor	2% 300Ω	金属被膜抵抗		
	40 10 00 HU 36 53 30	--do.--	--do.--330Ω	"		
	40 10 00 HU 36 57 50	--do.--	--do.--750Ω	"		
	40 10 00 HU 36 68 20	--do.--	--do.--8.2KΩ	"		
	40 10 00 HU 36 71 00	--do.--	--do.--10KΩ	"		

Ref. No.	Part No.		Description			Remarks	Common Models	
	40 10 00	HU 36 71 80	Metal film resistor 2%	18KΩ	金層被膜抵抗	"		
	40 10 00	HU 36 72 20	-do.-	-do.-	22KΩ	"		
	40 10 00	HU 57 61 80	-do.-	-do.-	1%-1.8KΩ	"		
	40 10 00	HU 57 72 20	-do.-	-do.-	22KΩ	"		
	40 10 00	HU 57 81 50	-do.-	-do.-	150KΩ	"		
	40 10 00	HU 19 72 00	-do.-	0.1%	20KΩ	"		
	40 10 00	HU 19 74 00	-do.-	-do.-	40KΩ	"		
	40 10 00	HU 19 78 00	-do.-	-do.-	80KΩ	"		
	40 10 00	HU 19 81 60	-do.-	-do.-	160KΩ	"		
	40 10 00	HU 59 51 00	-do.-	-do.-	0.01%100Ω	"		
	40 10 00	HU 59 61 00	-do.-	-do.-	1KΩ	"		
	40 10 00	HU 59 62 00	-do.-	-do.-	2KΩ	"		
	40 10 00	HZ 00 08 60	-do.-	-do.-	29.94KΩ	"		
	40 10 00	Hi 30 93 30	Solid resistor	3.3MΩ	ソリッド抵抗	"		
	40 10 00	Hi 20 94 70	-do.-	4.7MΩ	"			
	40 10 00	Hi 20 99 90	-do.-	10MΩ	"			
	40 10 00	HL 32 42 20	Metal oxide film resistor	2W 22Ω	酸化金属被膜抵抗	"		
	40 10 00	FF 04 31 20	Polystyrene capacitor	1200pF	スチロールコンデンサ	"		
	40 10 00	FP 13 72 20	Tantalum capacitor	16V 22μF	タンタル	"		
	40 10 00	FM 09 71 00	Non polar capacitor	16V 10μF	NP コンデンサ	"		
	40 10 00	FM 22 71 00	-do.-	25V 10μF	"			
	40 10 00	FM 22 73 00	-do.-	25V 33μF	"			
	40 10 00	FM 11 61 00	-do.-	50V 1μF	"			
	40 10 00	FM 11 64 00	-do.-	50V 4.7μF	"			
	40 10 00	HT 55 00 60	Semi variable resistor	3006 typeB -5KΩ	半固定抵抗	"		
	40 10 00	HT 56 01 50	-do.-	3321H Type B-20Ω	"			
	40 10 00	HT 56 00 00	-do.-	-do.-	B-50Ω	"		
	40 10 00	HT 56 00 20	-do.-	-do.-	B-200Ω	"		
	40 10 00	HT 56 00 70	-do.-	-do.-	B-10 KΩ	"		
	40 10 00	HT 56 01 00	-do.-	-do.-	B-100 KΩ	"		
	40 10 00	HT 12 00 10	-do.-	V10K4A Type B-1KΩ	"			
	40 10 00	HT 12 00 80	-do.-	-do.-	B-2 KΩ	"		
	40 10 00	HT 12 00 20	-do.-	-do.-	B-5 KΩ	"		
	40 10 00	HT 12 00 50	-do.-	-do.-	B-50 KΩ	"		
	40 10 00	HT 12 00 70	-do.-	-do.-	B-	"		
	40 10 00	HT 12 00 60	-do.-	-do.-	B-500KΩ	"		
	40 10 00	HT 12 01 10	-do.-	-do.-	B-1 MΩ	"		

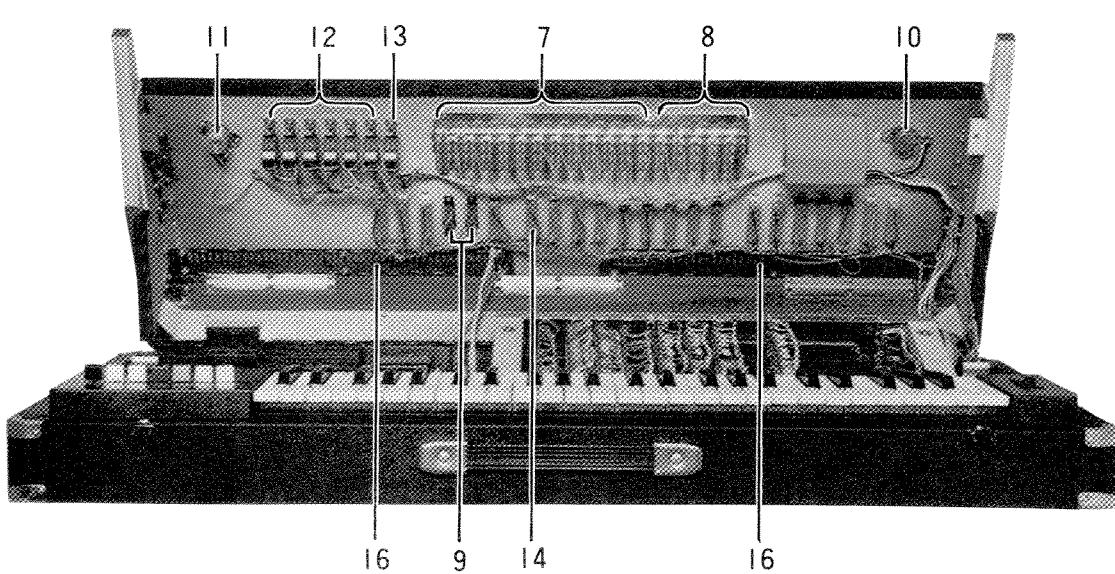
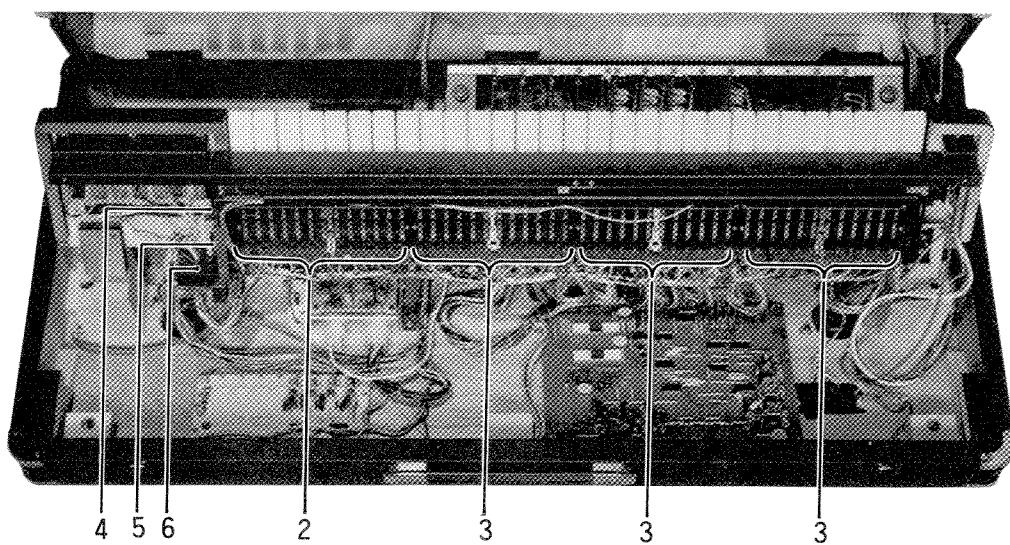
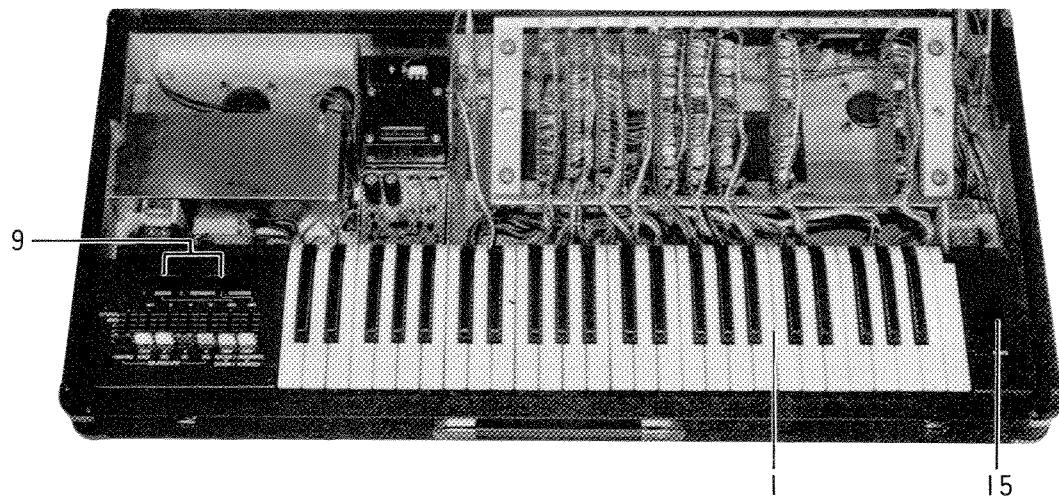
2 . Power Supply (電源)

CS-50(S/# 1001~)



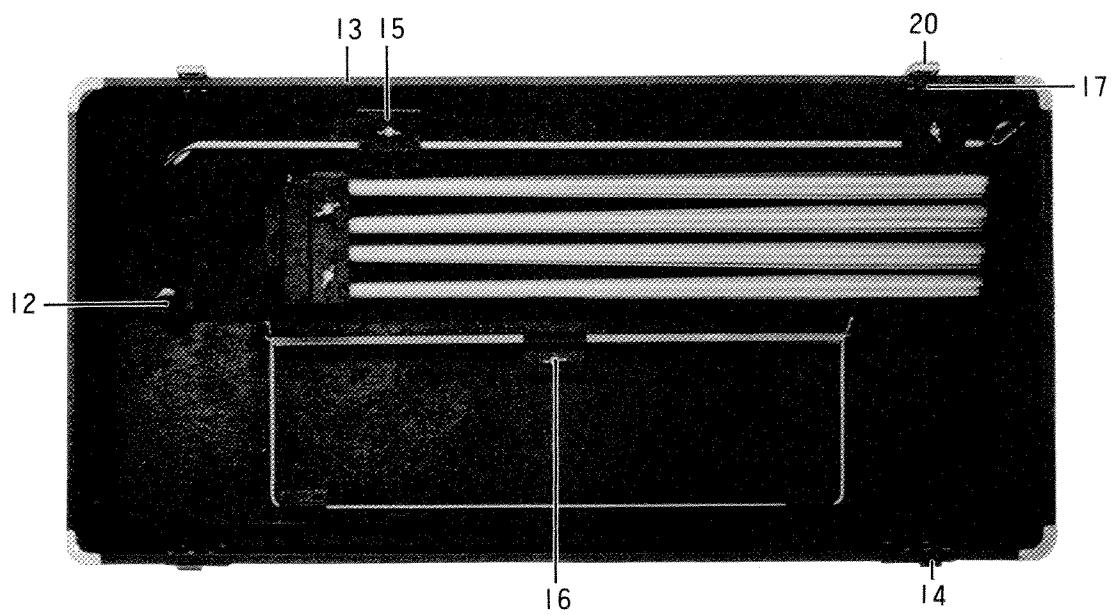
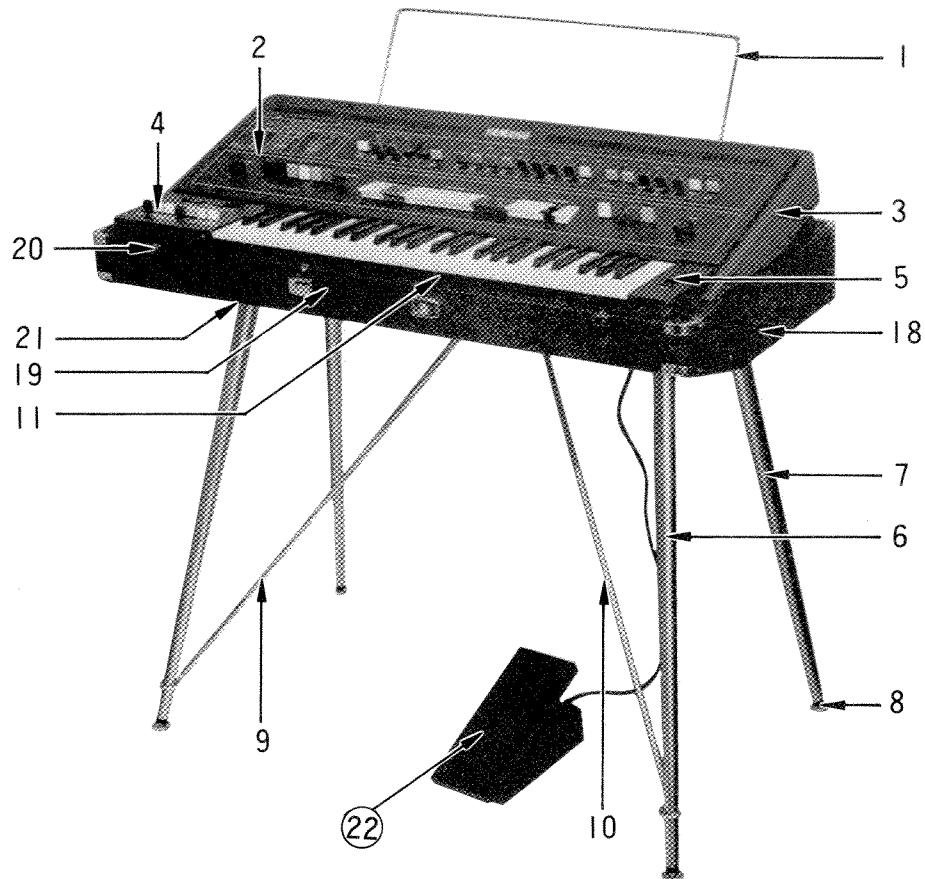
Ref. No.	Part No.	Description	Remarks	Common Models
1	30 12 00 NP 00 13 00	Power Supply Unit	電源ユニット	BS
	30 12 00 NP 00 13 10	—do.—	"	国内
	30 12 00 NP 00 13 20	—do.—	"	General
	30 12 00 NP 00 13 30	—do.—	"	UL
	30 12 00 NP 00 13 40	—do.—	"	South African
	30 12 00 NP 00 13 50	—do.—	"	Australian
	30 12 00 NP 00 13 60	—do.—	"	European, North European
	30 12 00 NP 00 13 80	—do.—	"	CSA
2	30 12 00 NA 03 55 90	SVU Circuit board #20922	SVU シート	
3	40 10 00 i A 04 90 20	Transistor 2SA490	トランジスタ	
	40 10 00 i A 05 61 70	—do.— 2SA561	"	
	40 10 00 i C 08 28 80	—do.— 2SC828	"	
4	40 10 00 i D 02 34 10	—do.— 2SD234	"	
	40 10 00 i F 00 00 40	Diode IS1555	ダイオード	
	40 10 00 i H 00 01 40	—do.— 10DC-4	"	
	40 10 00 i H 00 01 50	—do.— 10DC-4R	"	
	40 10 00 i F 00 01 00	Zener diode IS1715	ゼンナード	
	40 10 00 i F 00 07 80	—do.— WZ150	"	

3 . Key Board & Panel Component (鍵盤及びパネル) CS-50(S/# 1001~)



Ref. No.	Part No.				Description	Remarks	Common Models	
1	30	12	50	NB	04 51 50	Key board assembly	鍵盤 A'ssy	
2	30	10	00	NB	04 51 60	Switch assembly IU #4085	スイッチA'ssy	13Keys
3	30	10	00	NB	04 51 70	—do.— 2・3・4U #4086	"	12Keys
	30	10	00	CB	01 11 70	White Key C.F	白鍵	
	30	10	00	CB	01 11 80	—do.— D	"	
	30	10	00	CB	01 11 90	—do.— E.B	"	
	30	10	00	CB	01 12 00	—do.— G	"	
	30	10	00	CB	01 12 10	—do.— A	"	
	30	10	00	CB	01 12 20	—do.— C'	"	
	30	10	00	CB	01 12 30	Black Key	黒鍵	
	30	10	00	AA	01 56 70	Key spring for White Key	キースプリング	
	30	10	00	AA	01 56 80	—do.— for Black Key	"	
4	30	10	00	AA	03 24 40	Plate for Shatter	シャッター取付板	
5	30	10	00	BC	00 27 90	Shatter Plate	シャッター板	
6	30	10	00	NB	03 41 10	Touch Control pick-up assembly	T・Cピックアップ A'ssy	
	30	10	00	CB	01 86 40	Dust cover	ダストカバー	
	30	10	00	CB	02 86 00	Kno White	ツマミ白	
	30	10	00	CB	02 86 10	—do.— Black	" 黒	
	30	10	00	CB	02 86 20	—do.— Red	" 赤	
	30	10	00	CB	02 86 30	—do.— Green	" 緑	
	30	10	00	CB	02 86 40	—do.— Yellow	" 黄	
	30	10	00	CB	02 86 50	—do.— Gray	" 灰	
	30	10	00	CB	02 86 60	—do.— Black	" 黒	for Volume
	30	10	00	CB	02 86 70	TVR Knob White	" 白	
	30	10	00	CB	02 86 80	—do.— Black	" 黒	
	30	10	00	CB	02 86 90	—do.— Red	" 赤	
	30	10	00	CB	02 87 00	—do.— Green	" 緑	
	30	10	00	CB	02 87 10	—do.— Gray	" 灰	
	30	10	00	CB	03 01 20	Knob Black (out side)	" (外側)	for pitch
	30	10	00	CB	03 01 30	—dn.— —do.— (inside)	" (内側)	—do.—
7	40	10	00	KA	90 04 20	Push switch 14channel	プッシュ S W	for Tone Selector
8	40	10	00	KA	90 04 30	—do.— 4 channel	"	for Transposition
9	40	10	00	KA	10 00 90	See saw switch	シーソー S W	
10	40	10	00	HR	20 00 20	Variable vesistor A-10KΩ	ボリウム	for Volume
11	40	10	00	HR	60 00 20	—do.— B-10KΩ +B-500Ω	"	for Pitch

Ref. No.	Part No.				Description			Remarks	Common Models	
12	40 10 00 HP 70 00 10	TVR	B-10KΩ		T	V	R			
13	40 10 00 HP 70 00 20	—do.—	B-10KΩ		”			for Brilliance		
14	40 10 00 HQ 30 00 10	Slide variable resistor	B-10KΩ		スライド	V	R			
	40 10 00 HQ 30 03 20	—do.—	C-10KΩ		”			for Sustain		
	30 10 00 AA 03 67 70	Back Pannel		バックパネル	General, South African models					
	30 10 00 AA 03 67 80	—do.—		”	国内、UL,CSA,BS, Australian models					
	30 10 00 AA 03 70 20	—do.—		”	North European, European models					
	40 10 00 LB 20 04 80	Holder for fuse		ヒューズホルダー	General,South African models					
	40 10 00 LB 20 05 90	—do.—		”	North European, European models					
	30 10 00 CB 01 91 30	Knob	EXTERNAL-LEVEL	ツマミ						
	40 10 00 HR 20 01 90	Variable resister	—do.—	ボリューム						
	40 10 00 LB 20 02 50	Voltage Selector		電压切替器						
	40 10 00 KA 40 00 00	Slide Switch	High↔Low	スライドS W						
	40 10 00 LB 20 06 30	Phone jack	Output	ヘッドフォンジャック						
	40 10 00 LB 40 01 00	—do.—	Foot controller	”						
	40 10 00 KA 10 00 60	Power switch		パワー S W	国内					
15	40 10 00 KA 10 00 70	—do.—		”						
	40 10 00 KA 10 03 40	—do.—		”	European,North European,BS models					
	40 10 00 JB 00 01 80	Neon lamp		ネオン管	European,North European,BSmodels					
	30 54 00 CB 00 16 60	Pilot lens,red		赤玉	—do.—					
	30 10 00 CB 00 77 70	Lamp holder		ランプホルダー	—do.—					
16	30 10 00 AA 04 01 70	Grille for radiator		放熱グリル						



Ref. No.	Part No.		Description		Remarks	Common Models
I	30 10 00 AA 03 69 70		Music rest		譜面台	
2	30 12 50 00 04 45 10		Control panel		コントロールパネル	
	30 13 00 AA 01 65 00		Stay for control panel		ステー	
3	30 12 50 00 05 55 00		Side panel		パネル側板	
	30 10 00 AA 03 68 40		Bush for music rest		譜面台ブッシュ	
4	30 12 50 00 04 55 10		End block Left		拍子木(左)	
5	DA 01 74 20		—do.— Right		" (右)	
	NK 00 27 30		—do.— —do.—		" (右)	North European, BS, European models
6	30 10 00 NB 00 78 40		Leg Assembly Long		脚柱	
7	30 10 00 NB 04 53 40		—do.— Short		"	
8	30 10 00 NB 00 78 50		Chair Grades		脚台	
9	30 10 00 AA 03 69 00		Stay Left		支柱(左)	
10	30 10 00 AA 03 69 10		—do.— Right		" (右)	
12	40 10 00 EK 00 32 10		Knob bolt for Stay stopper		ノブボルト	6×30
11	30 10 00 AA 03 67 40		Keyboard spacer		II 金	
13	30 12 50 00 02 13 00		External cover		ケース蓋	
14	30 10 00 AA 96 09 00		Hinge Stopper		引掛け丁番	
15	40 10 00 EV 75 01 50		Wing bolt		蝶ネジ	M5×15
16	40 10 00 EV 76 01 50		—do.—		"	M6×15
	40 10 00 CB 01 06 40		P Nut		P ナット	
	40 10 00 EA 03 01 00		Pan head screw		ナベ小ネジ	3×10 ZMCZ
17	30 10 00 BB 00 18 90		Nut		特殊ナット	
18	30 12 50 00 04 07 00		Cabinet		本体ケース	
19	30 10 00 NB 80 29 00		Handle assembly		取手A'ssy	
20	30 10 00 AA 96 08 80		Lock		パッチン錠	
21	30 10 00 AA 01 39 20		Flange, leg		脚フランジ	
	40 10 00 EA 05 02 50		Pan head screw		ナベ小ネジ	5×25
	40 10 00 EV 10 00 50		Hexagonal nut		六角ナット	5 ZMCZ-Y
	40 10 00 EW 20 00 50		Flain washer		平座金	5
	30 54 00 AA 80 18 50		Grille radiator		放熱グリル	
	30 10 00 AA 03 68 40		Bush Music rest		譜面台ブッシュ	
	30 12 50 00 04 07 10		Lid AC cord		コード収納蓋	

