CONTENTS

SPECIFICATIONS

1. KEYBOARD	76 KEYS ($E_1 \sim G_7$)		6 OCTAVES 1/4
2. TONE TABLETS	I ch	PIANO 1	II ch PIANO 1
		PIANO 2	PIANO 2
		PIANO 3	PIANO 3
		HARPSICHORD	HARPSICHORD
3. EFFECT TABLETS	TREMOLO I		TREMOLO II
4. EFFECT CONTROL	PITCH I		PITCH II
	DECAY I		DECAY II
	SPEED (TREMOLO)		INTENSITY (TREMOLO)
	BASS		TREBLE
	BALANCE		VOLUME
5. FOOT SWITCH JACKS	SUSTAIN		
	TREMOLO		
6. OUTPUT JACKS	I		
	II		
	I + II		
7. OTHERS	POWER SW		
	PILOT LAMP		
8. INTERGRATED CIRCUITS	YM252 7		
	YM253 7		
	CA3038 1		
	RC4558 2		
9. RATED VOLTAGE	AC 110V ~ 240V		
10. RATED FREQUENCY	50/60Hz		
11. RATED POWER CONSUMPTION	25W (Other models) 117V 0.4A (Canadian model)		
12. APPEARANCE AND FINISHING	PICK BOLT		
	ROSE TAP PLYWOOD + PVC LEATHER CLAD		
	WIDTH	1276 mm	
	DEPTH	641 mm	
	HEIGHT	790 mm (UNPACKED), 181 mm (PACKED)	
	WEIGHT	54 kg	

CODING GUIDE

1. Designation of Signal Systems in Circuits

Audio Signal

DC Control Voltage

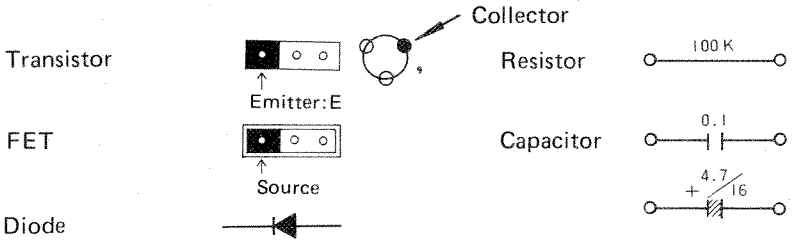
Modulated Wave

Pulse

Mechanical Control

2. Printed Circuit Board

1. All figures of the circuit board pattern are viewed from the part side.
2. Part displaying marks on the figures of the circuit board patterns.

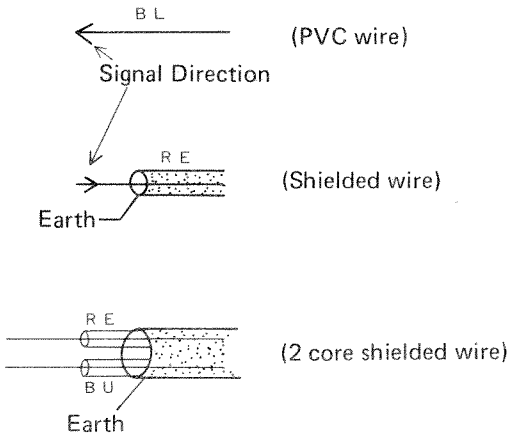


3. Designation of Wiring Materials

1. Color Designation (only English letters are shown in patterns)

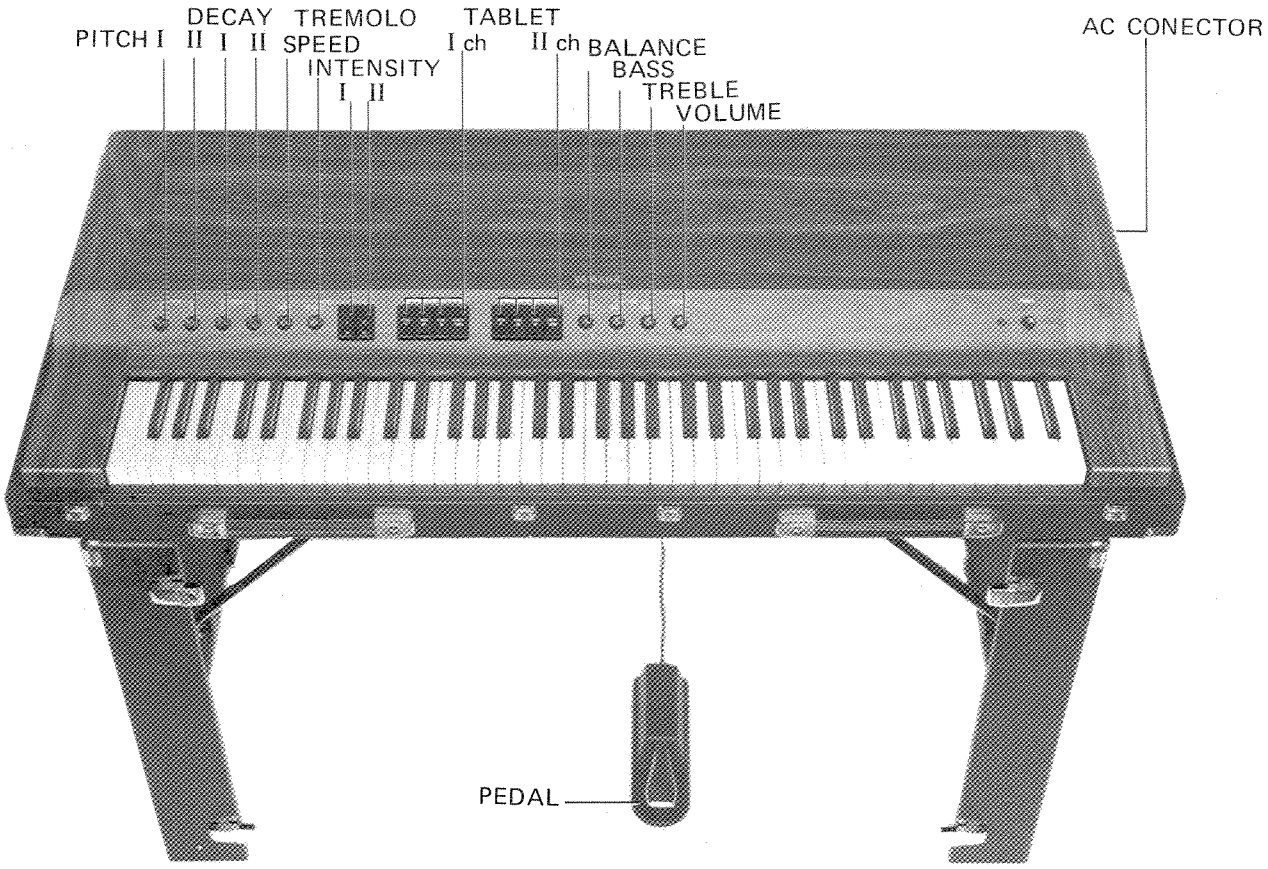
BL (Black)	WH (White)
BR (Brown)	GG (Grass Green)
RE (Red)	SB (Sky Blue)
OR (Orange)	PK (Pink)
YE (Yellow)	TR(Transparent)
GR (Green)	J (Jumper)
BE (Blue)	
VI (Violet)	
GY (Gray)	

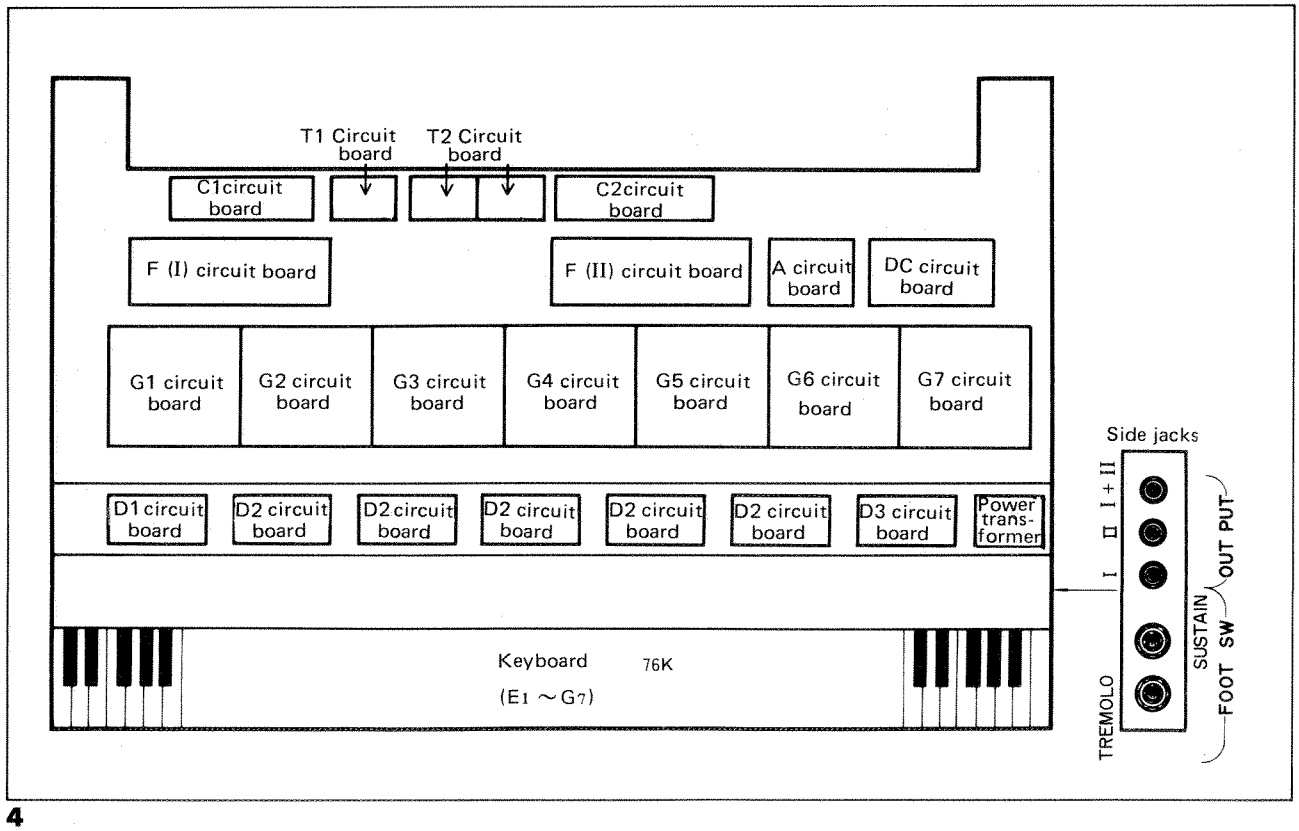
2. Designation of Wiring materials



4. CP-30 consists of sound compassing E_1 – G_7 (76 keys) with A_4 = 440 (Hz).

UNIT LAYOUT


PITCH I
DECAY II
DECAY I
DECAY II
TREMOLO SPEED
TREMOLO INTENSITY I
TREMOLO INTENSITY II
TABLET I ch
TABLET II ch
BALANCE
BASS
TREBLE
VOLUME
AC CONECTOR
PEDAL

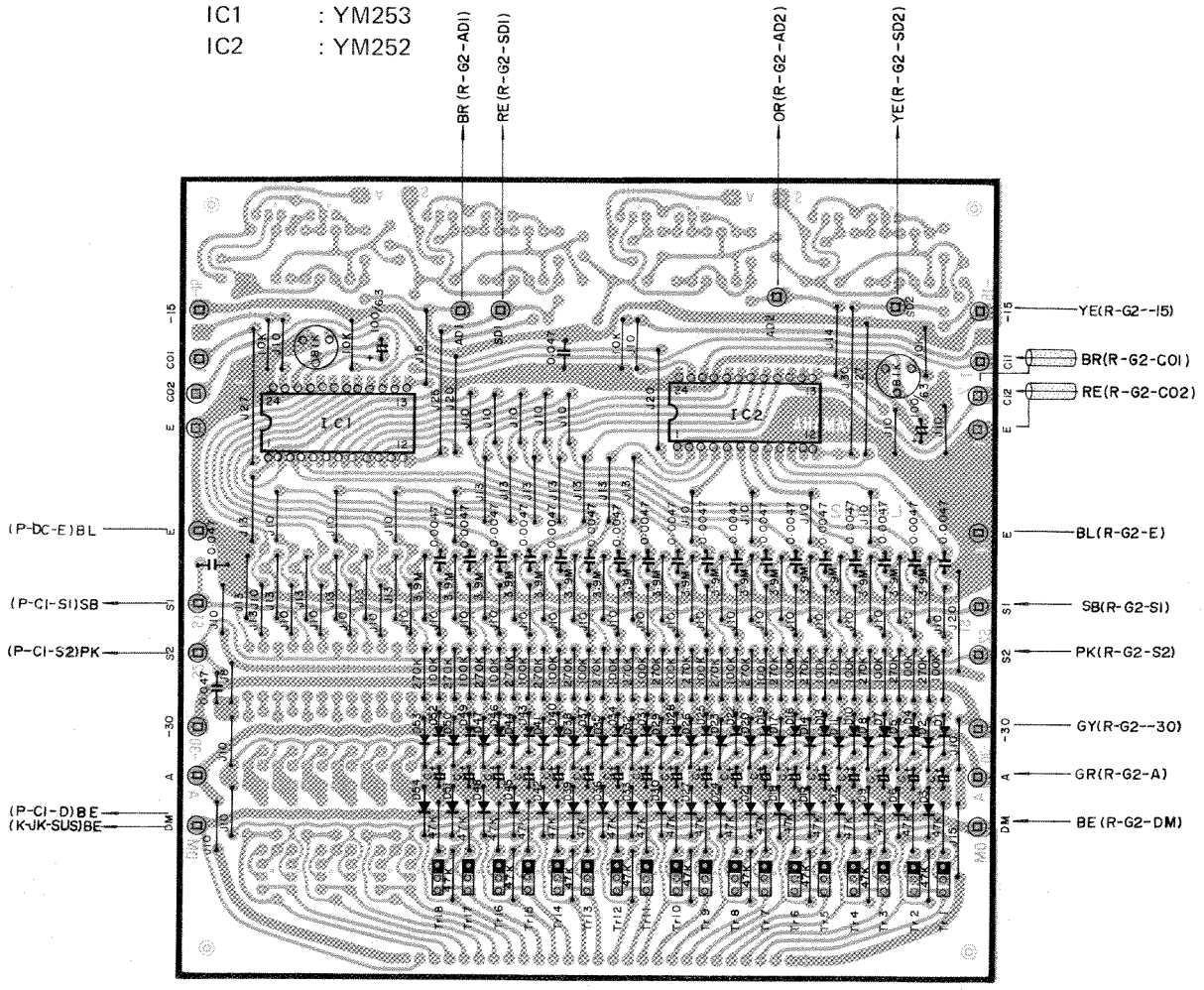

T1 Circuit board
T2 Circuit board
C1circuit board
C2circuit board
F (I) circuit board
F (II) circuit board
A circuit board
DC circuit board
G1 circuit board
G2 circuit board
G3 circuit board
G4 circuit board
G5 circuit board
G6 circuit board
G7 circuit board
D1 circuit board
D2 circuit board
D2 circuit board
D2 circuit board
D2 circuit board
D2 circuit board
D3 circuit board
Power trans-former
Keyboard 76K
(E1 ～G7)
Side jacks
I
II
I + II
TREMOLO
SUSTAIN
FOOT SW
OUT PUT

G1 Circuit Board & Wiring

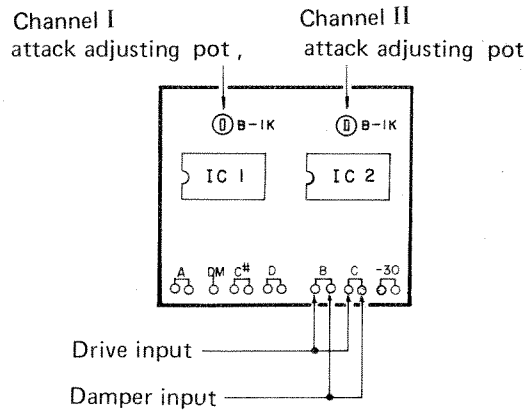
G1

NA80222

1. Transistor
   Tr1 ~ 18 : 2SA844 (D) (E)
2. IC
   IC1 : YM253
   IC2 : YM252
3. Diode
   D1 ~ 54 : 1S1555



▼ Adjustment Locations



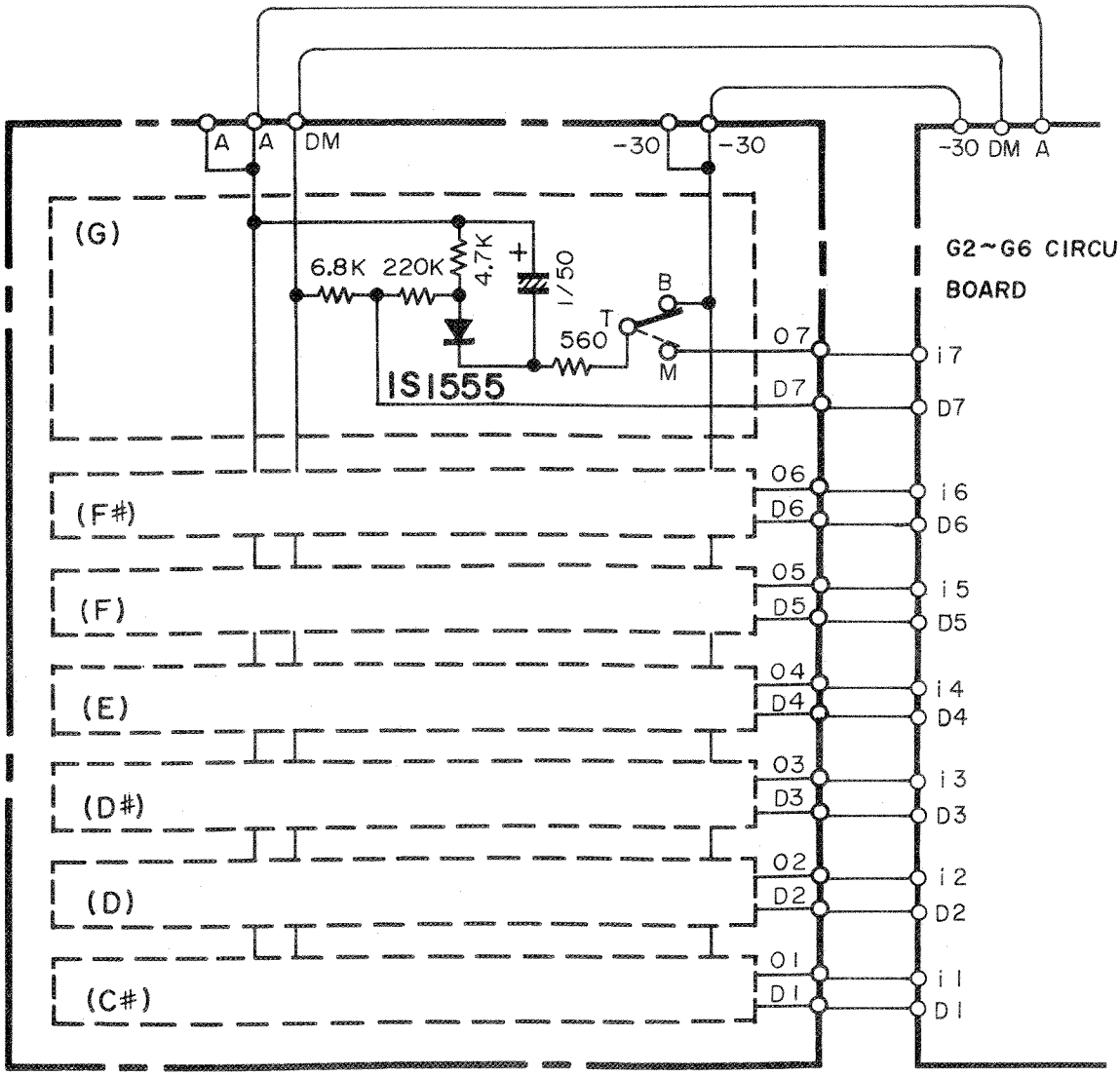
Attack adjusting pot is already adjusted before shipment, therefore do not touch it normally. However, if adjustment is needed because of IC replacement, etc., procede as follows;

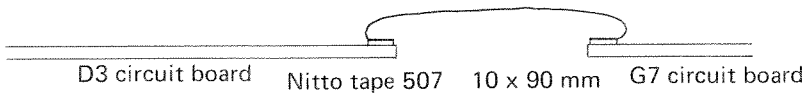
1. Remove wires from output terminals (AD1, SD1, AD2 and SD2). Connect A 1KΩ load resistor from each output terminal to ground, respectively.
2. Apply −5VDC to the drive input (terminal i4) for note name E.
3. Measure the output waveform. Amplitude and waveshape should be as shown in the table below. Adjust respective B−1KΩ adjusting pot as necessary.

(Please recheck pattern of waveform)

Output Terminal	Waveform	Amplitude (P−P)
AD1		50 mV
SD1		130 mV
AD2		35 mV
SD2		130 mV

4. D3 Circuit



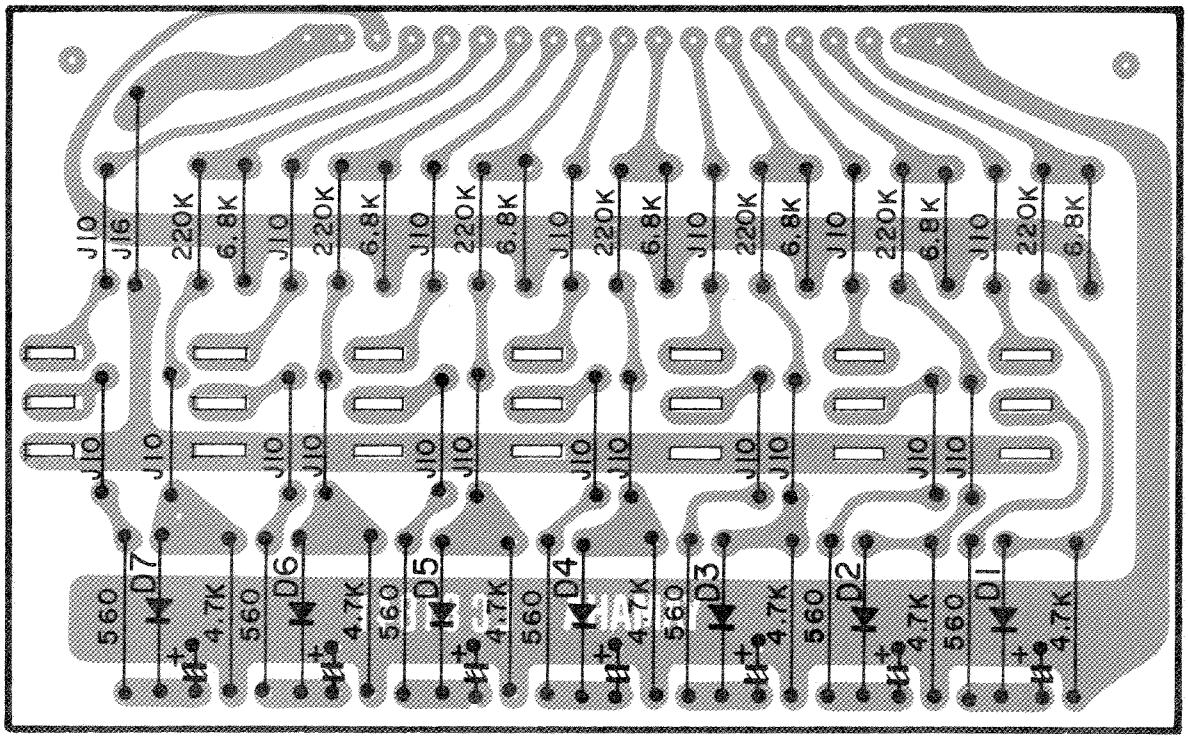


Note) Connection of D3 circuit board and G7 circuit board is, wired with jumper wire, and reinforced with two sided adhesive tape.

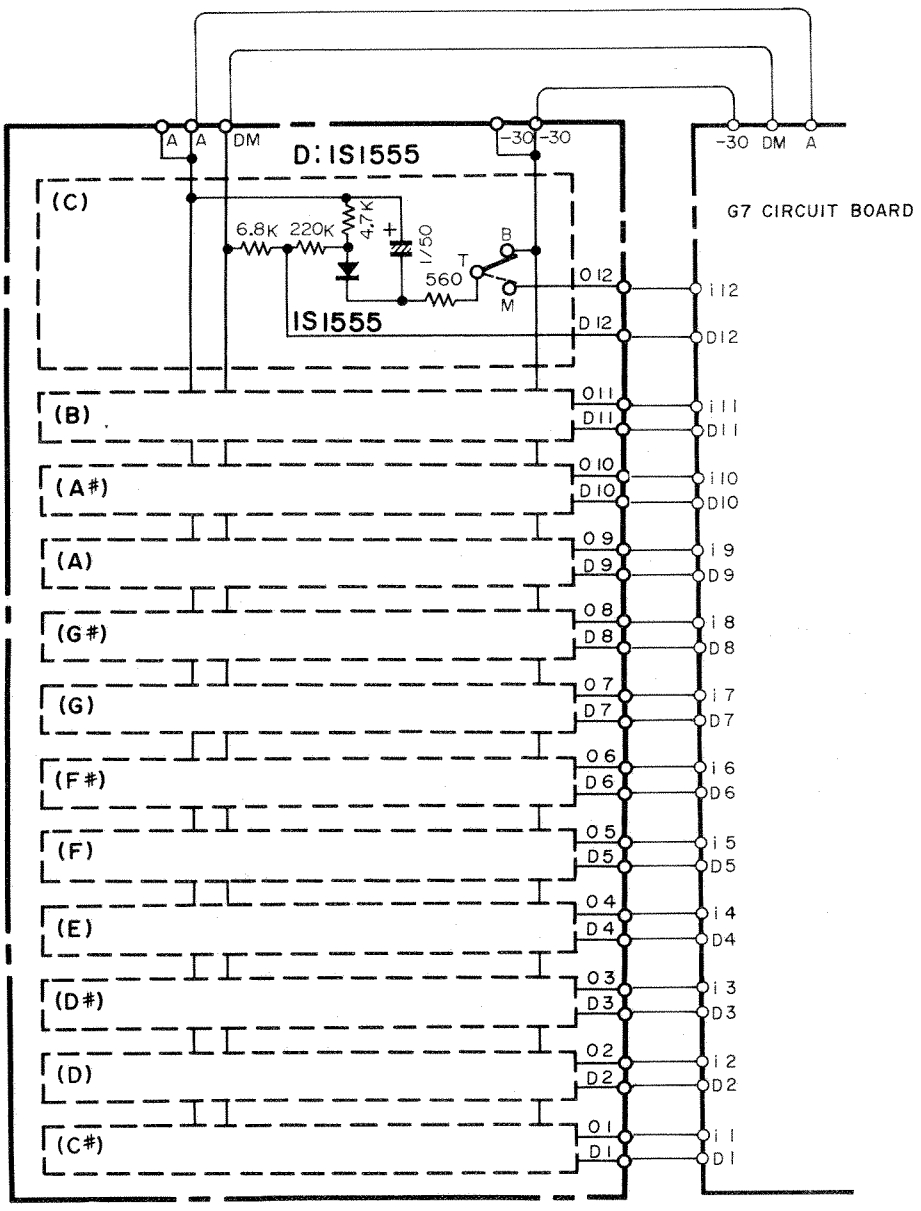
D3 Circuit Board & Wiring

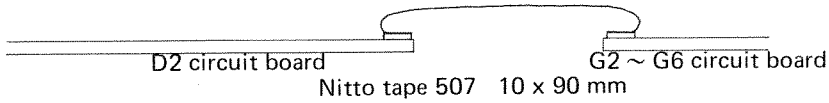
D3

1. Diode
   D1～7 : 1S1555
2. Electrolytic capacitor
   1/50 (± 10%)
3. Key contacts, 7 keys



5. D2 Circuit





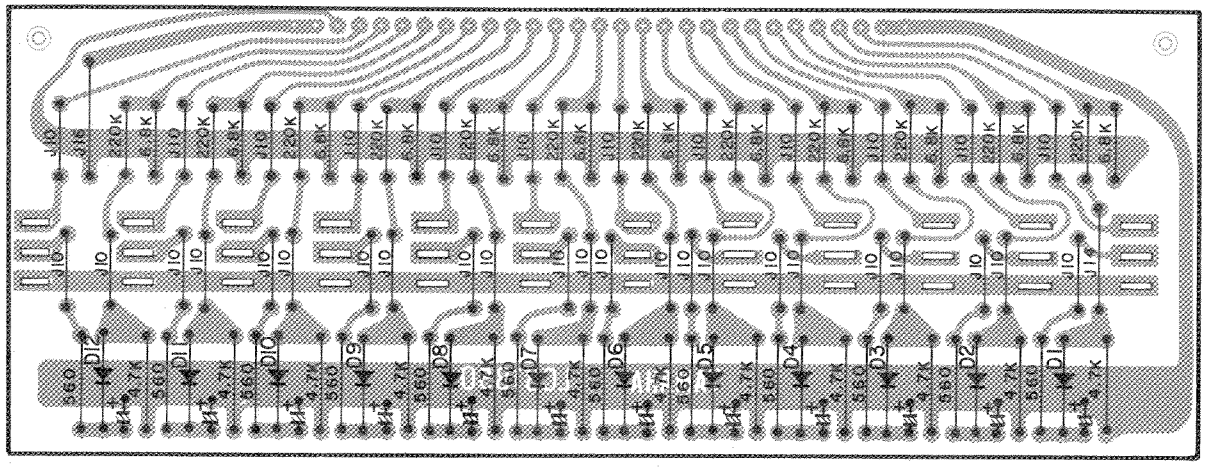
Nitto tape 507 10 x 90 mm

Note) D2 board is secured by both sides adhesive tape, after wiring is made with regard to each board of G2 – G6 (5 sheets) by jumper wire.
The five D2 boards are wired by jumper wire to boards G2 – G6 (5 sheets) and secured with two sided adhesive tape.

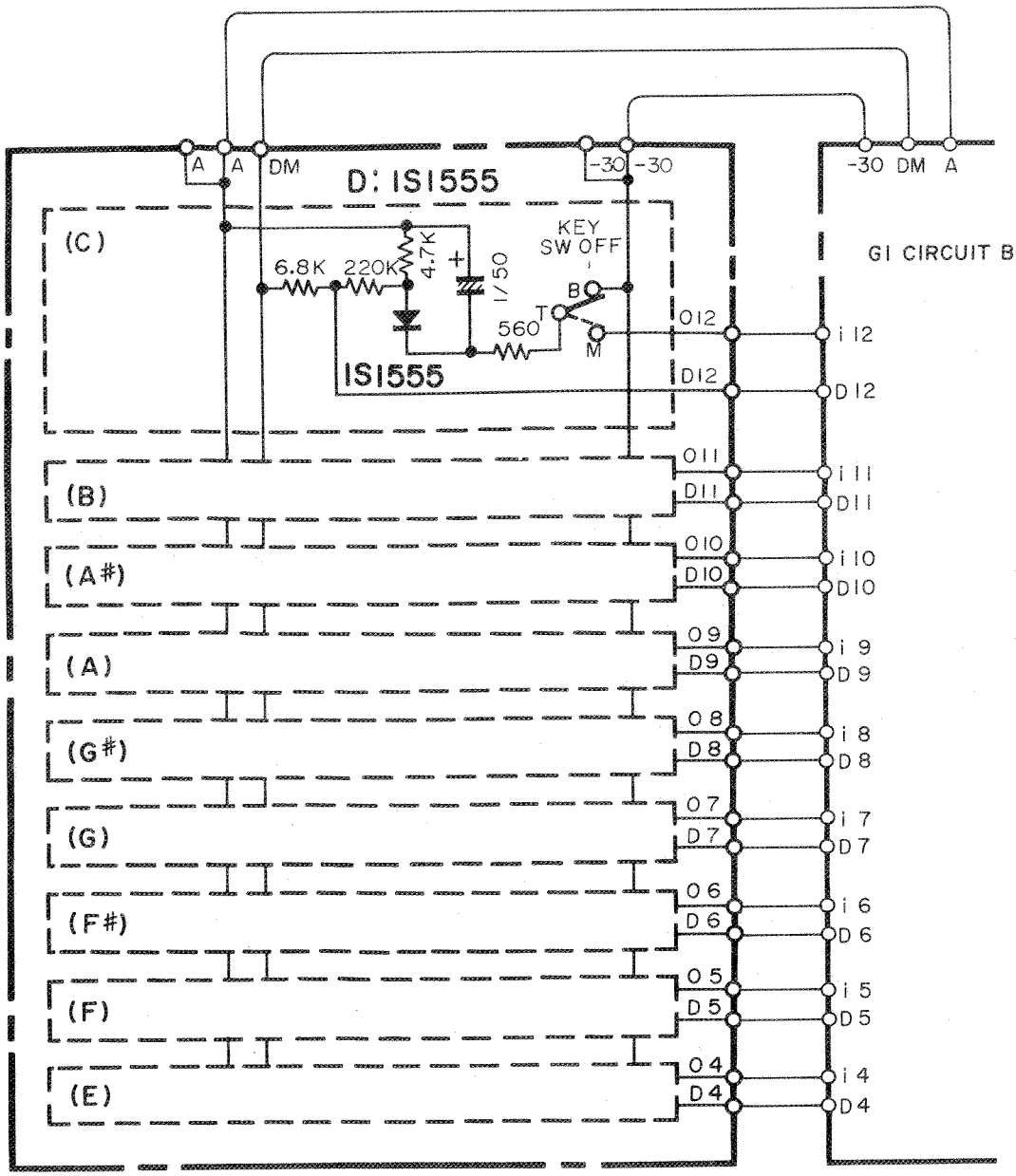
D2 Circuit Board & Wiring

D2

1. Diode
   D1～12 : 1S1555
2. Electrolytic capacitor
   1/50 (± 10%)
3. Key contacts, 12 keys



6. D1 Circuit



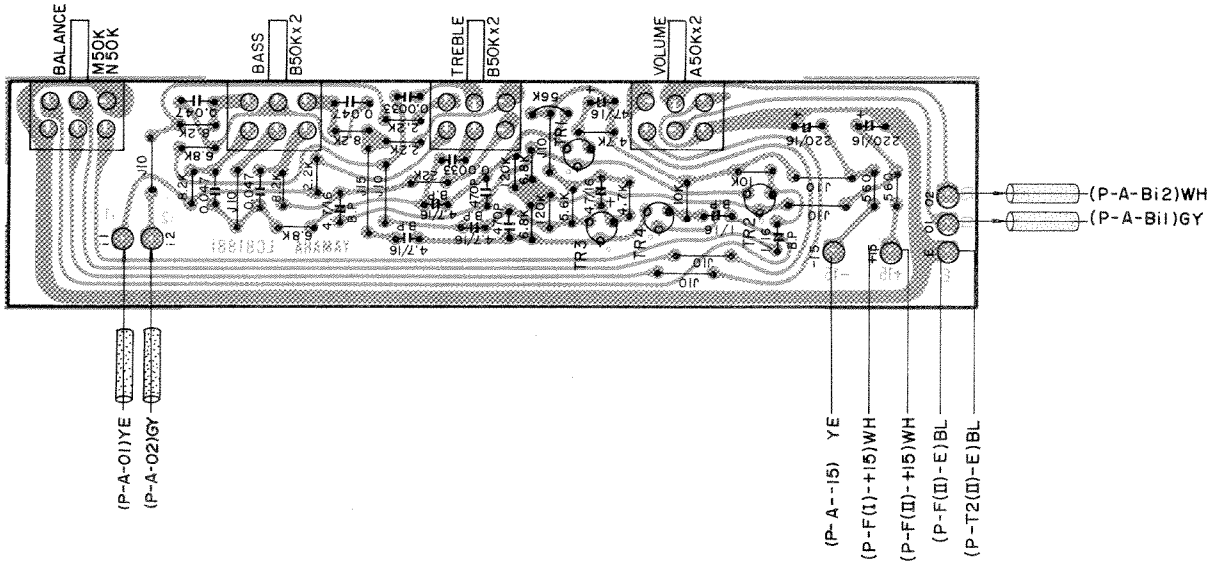
Note) Connection between D1 board and G1 board is secured with two sided adhesive tape, after being wired with jumper wire.

C2

C2 Circuit Board & Wiring

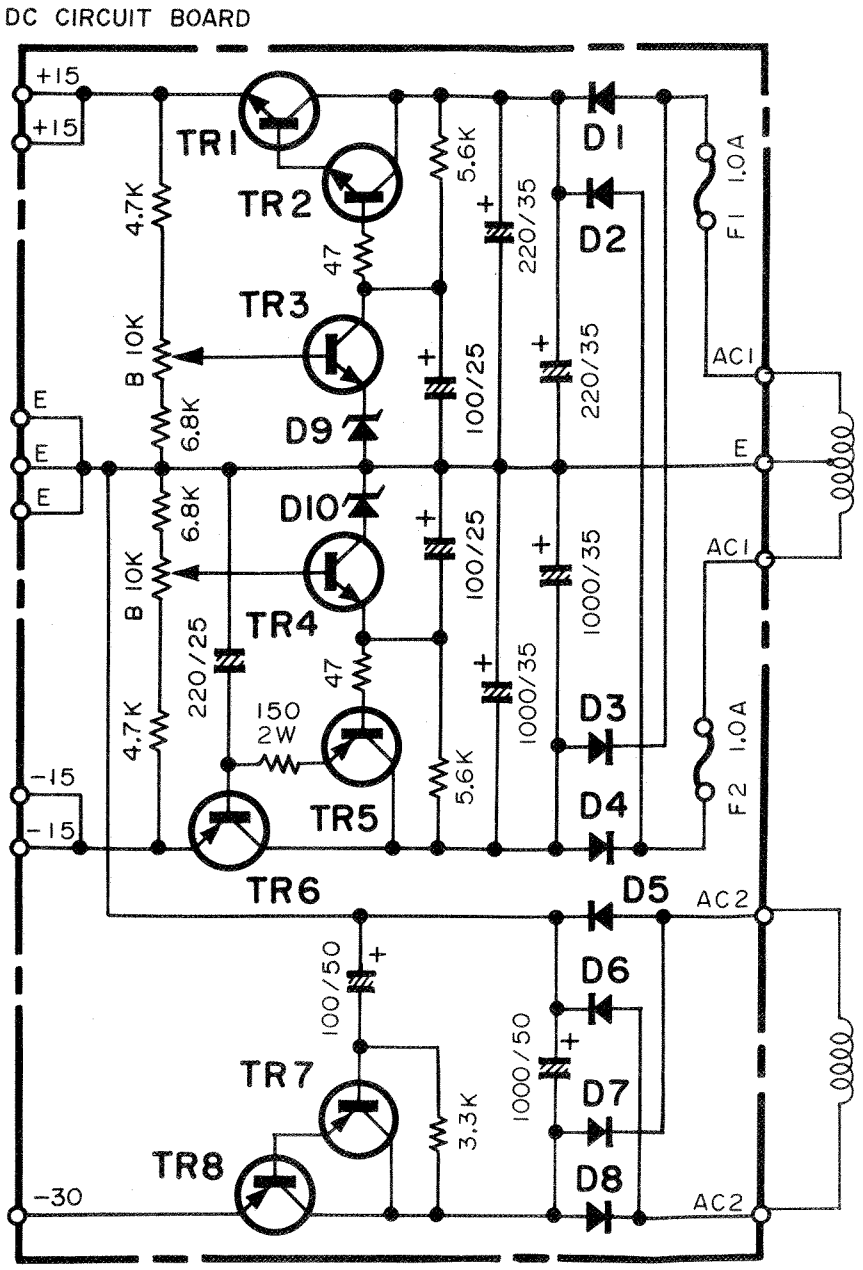
NA80216

1. Transistor
   Tr1, 3 : 2SA561 (O) (Y)
   Tr2, 4, 5, 6:2SC1681 (BL)
2. IC
   IC1, 2 : CA3080



Horizontal component values on ckt board are upside down.

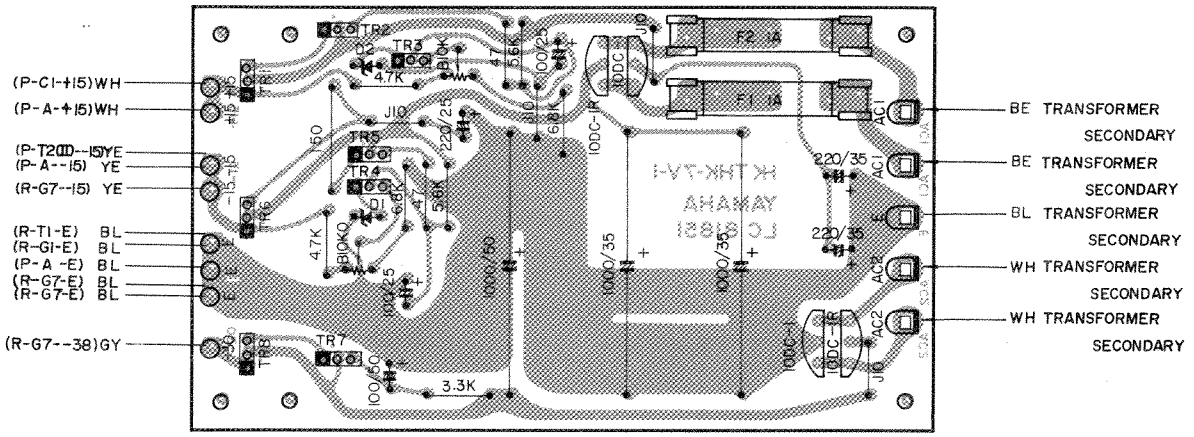
11. DC Circuit



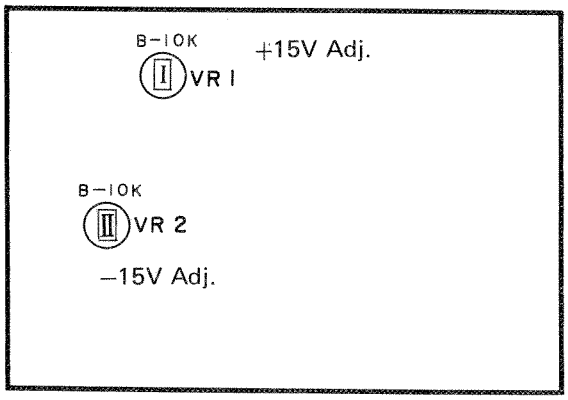
DC Circuit Board & Wiring

DC

1. Transistor
   Tr1 : 2SD526 (R)
   Tr2, 3 : 2SC1681 (BL)
   Tr4, 5 : 2SA561 (Y) (O)
   Tr6, 8 : 2SB596 (R)
   Tr7 : 2SA777 (R)

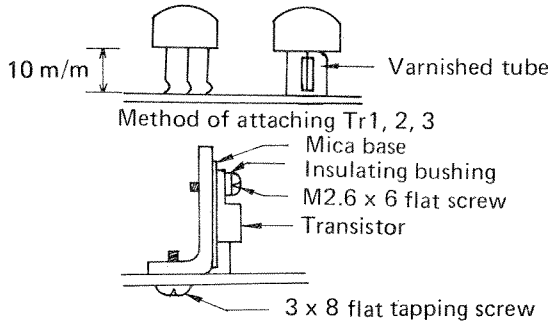


▼ Adjustment Locations



▼ Remarks

Kink leas or varnished tube is applied to diodes 10DC-1, 10DC-1R, so that diodes are floating by approx. 10 mm on the board.

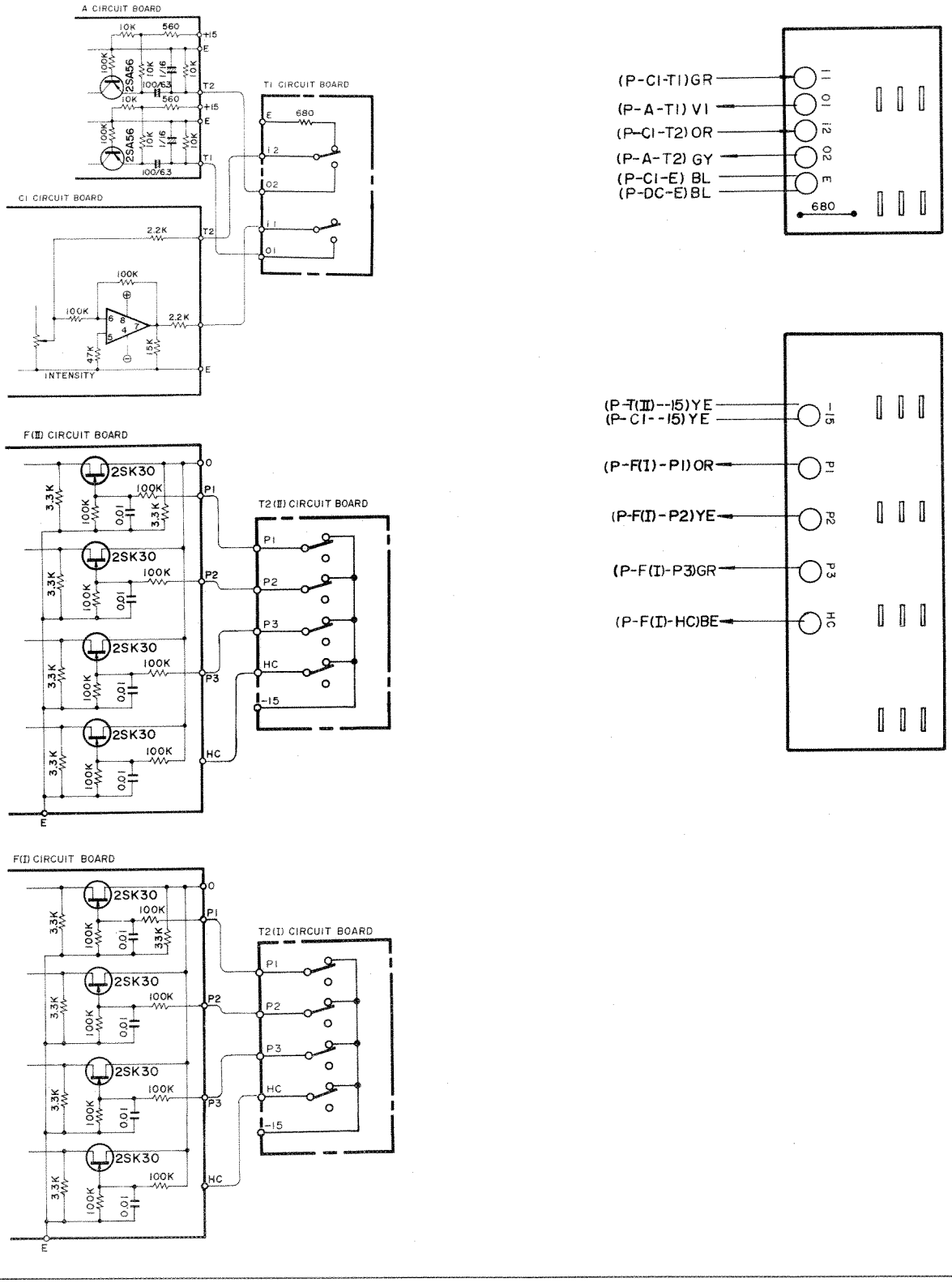


Silicon grease is applied between transistor, mica base and radiating plate, respectively.

All electrolytic capacitors are firmly attached.

* Use specifically accepted parts when replacing fuse and metal oxide film resistor.

12. T1, T2 Circuit, Circuit Board & Wiring

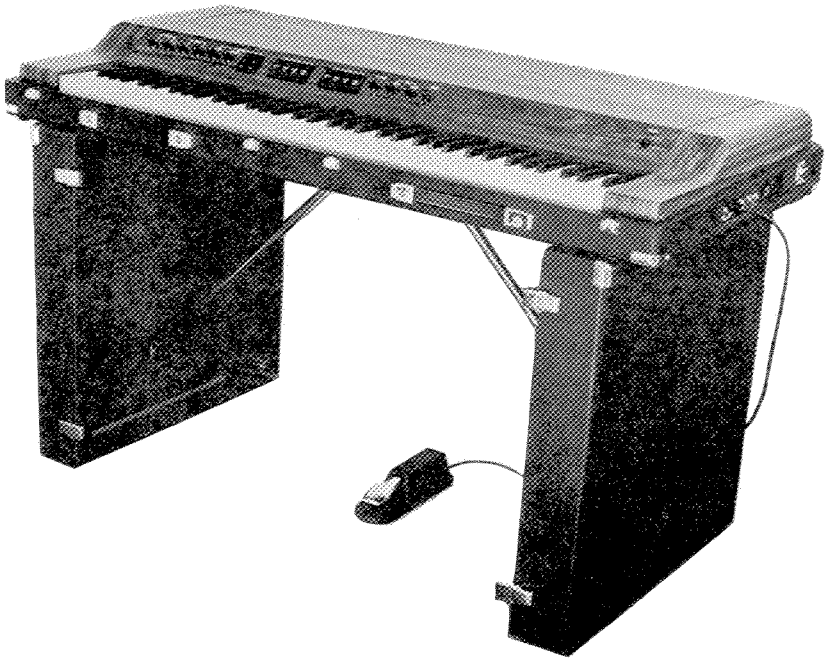


YAMAHA

ELECTRONIC PIANO

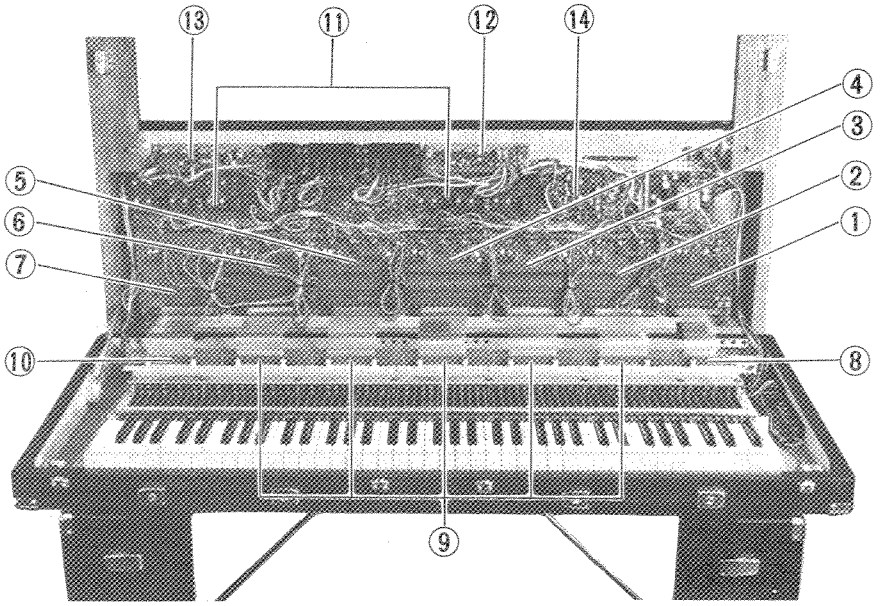
CP-30

PARTS LIST



CONTENTS

1 . Circuit Boards & Components



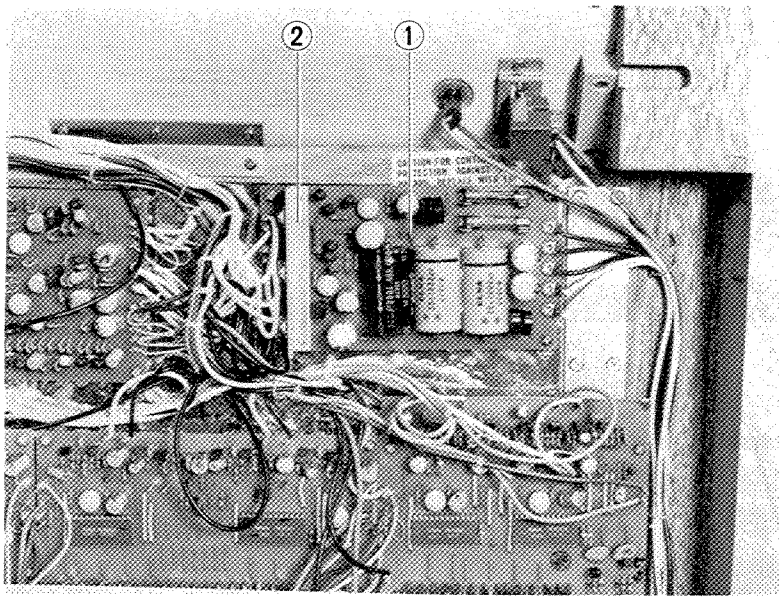
	Ref No.	Part No.(パーツ番号)	Description(部品名)		Remarks(備考)
※	①	3012300NA802280	G 7 Circuit Board ＃81821	G 7 シート	
※	②	3012300NA802270	G 6 —do.— ＃81811	G 6 シート	
※	③	3012300NA802260	G 5 —do.— —do.—	G 5 シート	
※	④	3012300NA802250	G 4 —do.— —do.—	G 4 シート	
※	⑤	3012300NA802240	G 3 —do.— —do.—	G 3 シート	
※	⑥	3012300NA802230	G 2 —do.— —do.—	G 2 シート	
※	⑦	3012300NA802220	G 1 —do.— —do.—	G 1 シート	
※	⑧	3012300NA802210	D 3 —do.— W/Key Switch	D 3 シート	
※	⑨	3012300NA802200	D 2 —do.— —do.—	D 2 シート	
※	⑩	3012300NA802190	D 1 —do.— —do.—	D 1 シート	
※	⑪	3012300NA802300	F Circuit Board ＃81801	F シート	
※	⑫	3012000NA802160	C 2 —do.— ＃81881	C 2 シート	
※	⑬	3012000NA802150	C 1 —do.— ＃81870	C 1 シート	
※	⑭	3012000NA802140	A —do.— ＃81861	A シート	
		4010000iA049500	Transistor 2SA 495(O)(Y)	トランジスター	
		4010000iA056170	—do.— 2SA 561(O)(Y)	トランジスター	
		4010000iA084410	—do.— 2SA 844(D)(E)	トランジスター	
		4010000iC045850	—do.— 2SC 458LG(C)	トランジスター	
		4010000iC075230	—do.— 2SC 752(O)(Y)	トランジスター	
		4010000iC082890	—do.— 2SC 828	トランジスター	
		4010000iC168120	—do.— 2SC1682(BL)	トランジスター	
		4010000iE000010	FET 2SK30	FET	
		4010000iF000040	Diode 1S1555	ダイオード	
		4010000iF000460	—do.— —do.—	ダイオード	Tapeing
		4010000iH000060	—do.— 10D－4	ダイオード	
※		4010000iG000360	Integrated Circuit CA3080	IC	
		4010000iG001390	—do.— RC4558	IC	

※ marked : New parts

	Ref No.	Part(((パーツ番号)	Description(部品名)		Remarks(備考)
		4010000iG0014000	－do.－ YM 253	I C	
※		3010000YM2520000	－do.－ YM 252	〃	
		4010000HT4100110	Variable Resistar B －200Ω	可変抵抗器	Solid Type
		4010000HT4100220	－do.－ B －1KΩ	〃	－do.－
		4010000HT4100440	－do.－ B －4.7KΩ	〃	－do.－
		4010000HT4101440	－do.－ B －47KΩ	〃	－do.－
※		4010000HS4104470	－do.－ A －10KΩ	〃	16φ ℓ＝25(mm) 0.984(inch) h＝12.5(mm) 0.492(inch)
※		4010000HS4104880	－do.－ B －10KΩ	〃	－do.－
※		4010000HS4104990	－do.－ B －1KΩ	〃	－do.－
		4010000HS4105000	－do.－ B－50KΩ×2	〃	－do.－
		4010000HS4105110	－do.－ A－50KΩ×2	〃	－do.－
		4010000HS4105220	－do.－ MN－50KΩ×2	〃	－do.－
		4010000HS4105330	－do.－ C －50KΩ×2	〃	－do.－
		4010000GE3001220	Choke Coil 100μH	高周波チョークコイル	
		4010000GE9001880	OSC Coil 200μH	OSCコイル	
		4010000GB0642220	Filter Coil 200mH	フィルターコイル	
		4010000GB0643330	－do.－ 330mH	〃	
		4010000GB0644470	－do.－ 470mH	〃	
※		3010000CB0278000	Switch Cover	スイッチカバー	for D1 & D2 Circuit Boards
※		3010000CB8088000	－do.－	〃	for D3 Circuit Board
※		4010000Mi8009880	Jumper－line	ジャンパーリード	for G1～G6 Circuit Boards
※		4010000Mi8009900	－do.－	〃	for G7 Circuit Board

※ marked : New parts

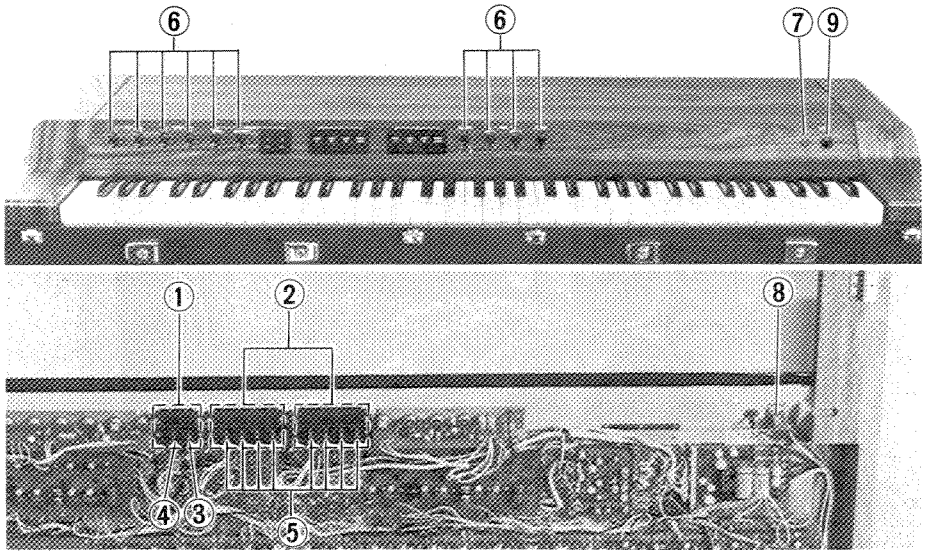
2 . Power & Components



	Ref No.	Part No.(パーツ番号)	Description(部品名)		Remarks(備考)
※	①	3012000NA802110	DC Circuit Board	DCシート	Japan,S.African & Australian models
※		3012000NA802120	—do.—	〃	US & Canadian models
※		3012000NA802130	—do.—	〃	N.European & BS models
		4010000iA056170	Transister 2SA 561(O)(Y)	トランジスター	
		4010000iA077730	—do.— 2SA 777(R)	〃	
		4010000iB059620	—do.— 2SB 596(R)(O)	〃	
		4010000iC168120	—do.— 2SC1681(BL)	〃	
		4010000iD052610	—do.— 2SD 526(R)(O)	〃	
		4010000iF000100	Zener Diode 1S1715	ダイオード	
		4010000iH000140	Diode 10DC－4	〃	
		4010000iH000150	—do.— 10DC－4R	〃	
		4010000HT410070	Variable Resistor B－10KΩ	可変抵抗	
		4010000KB000330	Fuse 250V 1.0A	ヒューズ	Japan.S.African & Australian models
		4010000KB000730	—do.— Ⓢ 250V 1.0AT	〃	N.European & BS models
※		4010000KBQ01020	—do.— 1.0A SS－2	〃	US & Canadian models
※	②	3010000BA801750	Heat Sink	放熱板	

※ marked : New parts

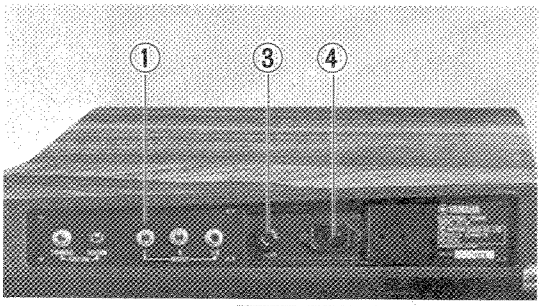
3 . Control Panel & Components

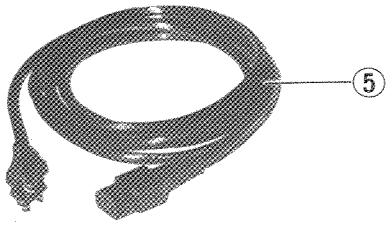


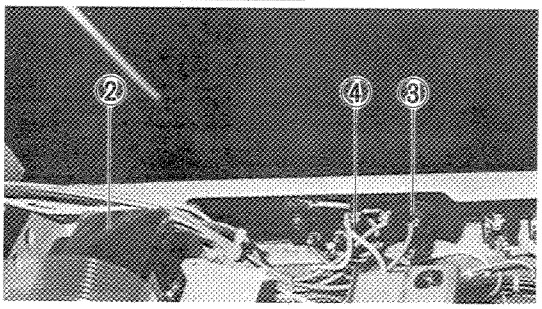
	Ref No.	Part No.(パーツ番号)	Description(部品名)		Remarks(備考)
※	①	3 0 1 2 3 0 N B 8 0 5 9 9 0	Tablet Assembly	タブレットアッセンブリー	TREMOLO
※	②	3 0 1 2 3 0 N B 8 0 6 0 0 0	—do.—	〃	Filter Ⅰ, Ⅱ
	③	3 0 1 0 0 0 N B 0 3 7 0 4 0	Switch Assembly	スイッチアッセンブリー	TREMOLOⅡ 1T
	④	3 0 1 0 0 0 N B 0 3 7 0 5 0	—do.—	〃	TREMOLOⅠ 1M
	⑤	3 0 1 0 0 0 N B 0 3 7 0 6 0	—do.—	〃	Filter Ⅰ, Ⅱ 1B
※	⑥	3 0 1 0 0 0 C B 8 0 8 4 0 0	Knob	つ ま み	Variable Resistor
	⑦	4 0 1 0 0 0 J B 0 0 0 3 6 0	Neon Bracket Lamp	ネオンブラケットランプ	BNR－3V
	⑧	4 0 1 0 0 0 K A 8 0 0 2 0 0	Push Switch SDG5P001	プッシュスイッチ	US & Canadian madols
		4 0 1 0 0 0 K A 8 0 0 2 1 0	—do.— —do.—502	〃	Australian,BS & N.Europian models 250V 4A
		4 0 1 0 0 0 K A 8 0 0 2 2 0	—do.— —do.—	〃	Japan & S.African models 125V 10A
	⑨	3 0 1 0 0 0 C B 8 0 8 4 5 0	Push Button	プッシュボタン	

※ marked : New parts

4 . Side Panel & Components



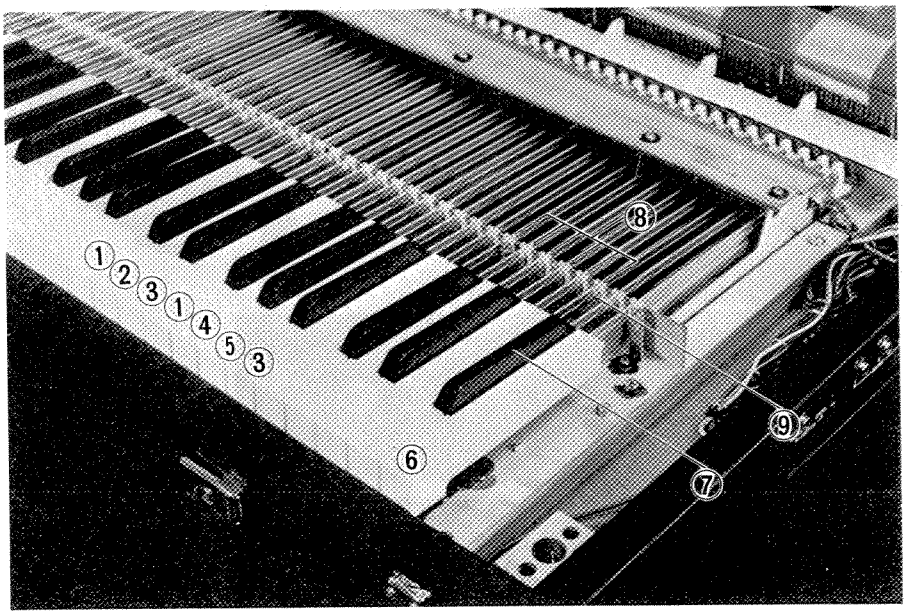




	Ref. No	Part No.(パーツ番号)	Description(部品名)		Remarks(備考)
※	①	3 0 1 0 0 0 A A 8 0 4 4 3 0	Side Panel	サイドパネル	Japan model
※		3 0 1 0 0 0 A A 8 0 4 4 4 0	－do.－	〃	U S model
※		3 0 1 0 0 0 A A 8 0 4 4 5 0	－do.－	〃	Canadian model
※		3 0 1 0 0 0 A A 8 0 4 4 6 0	－do.－	〃	Austrlian model
※		3 0 1 0 0 0 A A 8 0 4 4 7 0	－do.－	〃	S.African,BS & N.European models
※	②	4 0 1 0 0 0 G A 8 0 4 7 0 0	Power Transformer	電源トランス	
	③	4 0 1 0 0 0 L B 2 0 0 4 9 0	Fuse Holder ＃20049	ヒューズホルダー	Japan model
		4 0 1 0 0 0 L B 2 0 0 4 8 0	－do.－ ＃20048	〃	US,S.African,Australian & Canadian models
		4 0 1 0 0 0 L B 2 0 0 5 9 0	－do.－ ＃20059	〃	N.European & BS models
		4 0 1 0 0 0 K B 0 0 0 3 1 0	Fuse 250V 0.5A	ヒューズ	Japan,S.African & Australian models
		4 0 1 0 0 0 K B 0 0 1 1 5 0	－do.－ 250V 0.5A	〃	US & Canadian models
		4 0 1 0 0 0 K B 0 0 0 7 1 0	－do.－ ⑤ 250V 0.5AT	〃	BS & N.European models
		4 0 1 0 0 0 K B 0 0 0 8 2 0	Lead Type Fuse 250V 1A	リード付ヒューズ	US & Canadian models
	④	4 0 1 0 0 0 L B 3 0 0 2 9 0	A C Socket ＃30029 STF-74-A1	A C ソケット	PM－1000
		4 0 1 0 0 0 L B 2 0 0 2 5 0	Voltage Selector ＃20025	電圧切換器	S.African,BS & N.European models
	⑤	4 0 1 0 0 0 M G 0 0 0 5 8 0	A C Power Cord Assembly	電源コード	US & Canadian models
		3 0 1 2 0 0 M Z 8 0 0 6 5 0	－do.－	〃	S.African model PM－1000
		3 0 1 2 0 0 M Z 8 0 1 7 4 0	－do.－	〃	Australian model －do.－
		3 0 1 2 0 0 M Z 8 0 1 7 5 0	－do.－	〃	BS model －do.－
		4 0 1 0 0 0 M G 0 0 0 3 6 0	－do.－	〃	N.European model －do.－
		4 0 1 0 0 0 M G 0 0 0 5 6 0	－do.－	〃	Japan model －do.－

※ marked : New parts

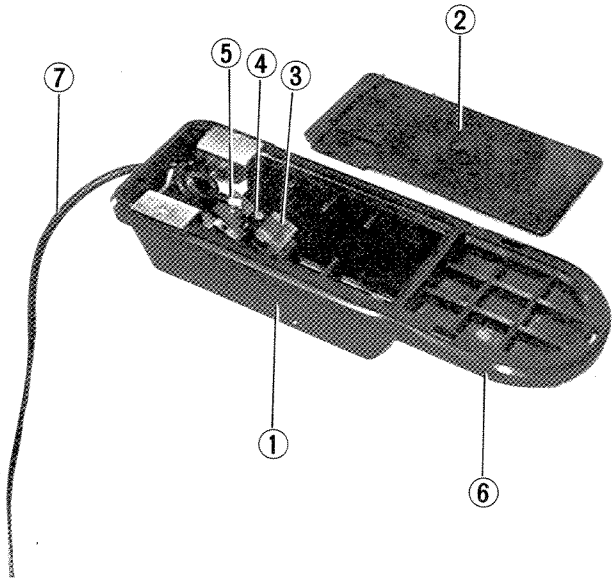
5 . Keyboard & Components



	Ref. No.	Part No.(パーツ番号)	Descrjption(部品名)		Remarks(備考)
※	①	3011801NB0434330	White Key Assembly C, F	白鍵アッセンブリー	
※	②	3011801NB0434440	—do.— D	〃	
※	③	3011801NB0434550	—do.— E, B	〃	
※	④	3011801NB0434660	—do.— G	〃	
※	⑤	3011801NB0434770	—do.— A	〃	
※	⑥	3011801NB0434990	—do.— G′	〃	Extreme right side of the Keyboard (73key)
※		3011801NB0451000	—do.— E′	〃	Extreme left side of the Keyboard (1 key)
※	⑦	3011801NB0435110	Black Key Assembly	黒鍵アッセンブリー	
※	⑧	3010000CB0278440	Support	サ ポ ー ト	
※	⑨	3010000CB0284110	Pibot Rubber	ピ ボ ッ ト ゴ ム	

※ marked : New parts

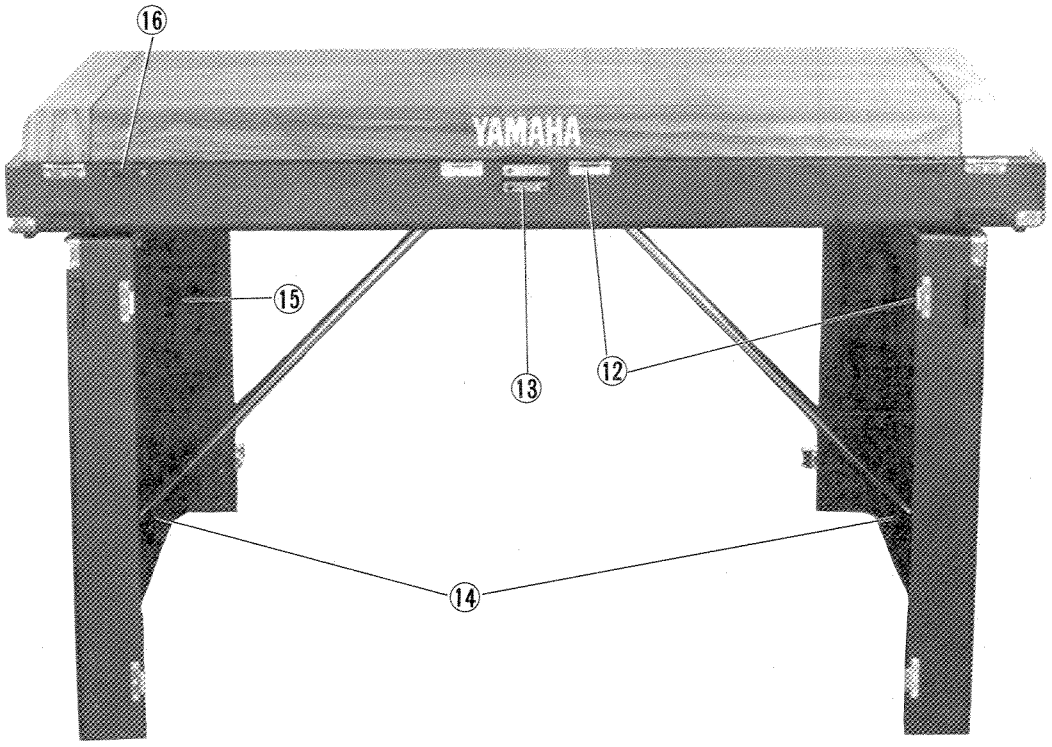
6. Sustainer Pedal

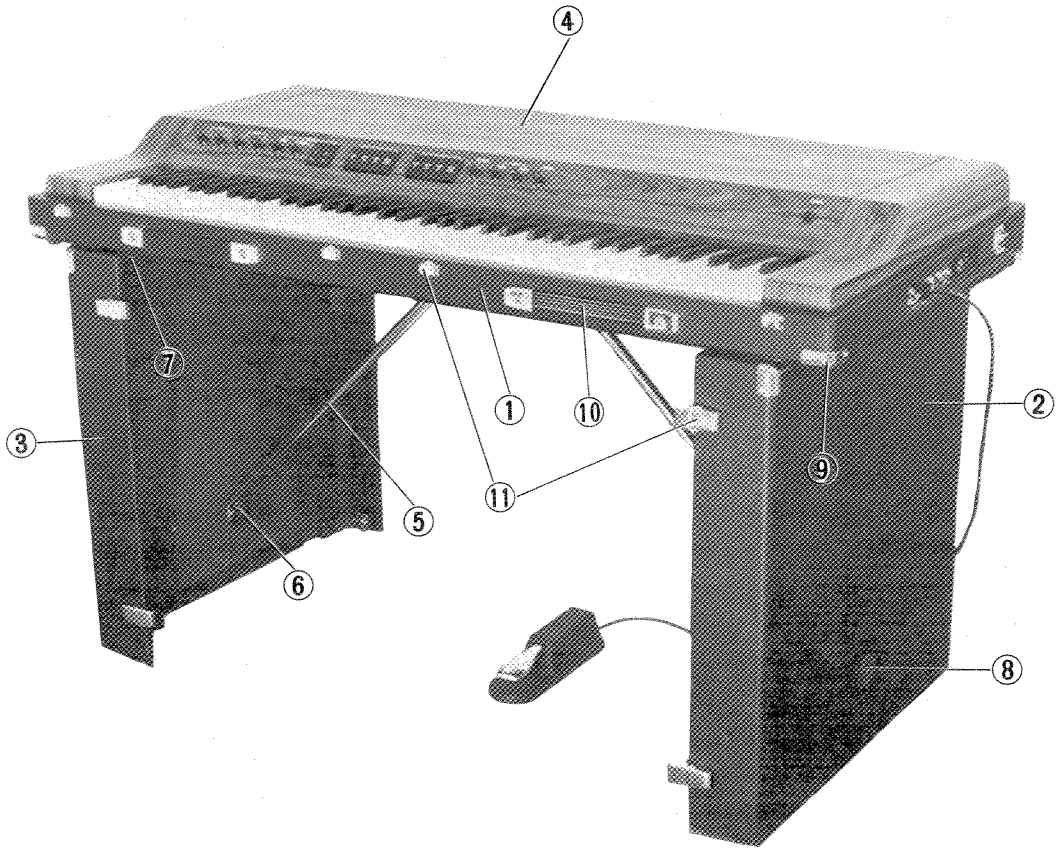


	Ref. No.	Part No.(パーツ番号)	Description(部品名)		Remarks(備考)
※	①	3 0 1 0 0 0 C B 8 0 6 7 4 0	Pedal Box	ペダル本体	
※	②	3 0 1 0 0 0 C B 8 0 6 7 5 0	Bottom Plate	底板	
	③	3 0 1 0 0 0 N B 0 3 7 1 4 0	Tablet Switch	タブレットスイッチ	1M W／Actuator
※	④	3 0 1 0 0 0 C B 8 0 8 3 6 0	—do.— Cover	接点カバー	
※	⑤	4 0 1 0 0 0 C A 8 0 0 4 5 0	Fiber Washer	ファイバーワッシャ	
※	⑥	3 0 1 0 0 0 A A 8 0 3 2 4 0	Pedal	ペダル	
		3 0 1 0 0 0 A A 8 0 3 2 6 0	—do.— leaf Spring	ペダル板バネ	
※	⑦	3 0 1 0 0 0 M i 0 1 4 2 2 0	Cord Assembly	コード	

※ marked : New parts

7 . Cabinet





	Ref. No.	Part No.(パーツ番号)	Description(部品名)		Remarks(備考)
※	①	3012302402140 0	Bottom Frame	底　枠	
※	②	3012302402135 0	Lege (Left)	蓋　脚(左)	
※	③	3012302402136 0	－do.－ (Right)	蓋　脚(右)	
※	④	3012302404101 0	Top Board	屋　根	
※	⑤	3010000AA804390	Stay	脚　柱	
※	⑥	3010000CB808330	Knob Bolt	ノブネジ	
		3010000AA804630	Stay Ling	脚柱リング	
※	⑦	4010000CB808340	Knod Bolt	ノブネジ	
※	⑧	3010000AA804270	Stay Nut	脚用ナット	
		4010000EB330160	Flat Head Screw 3×16 ZMC2-Bl	皿小ネジ	
	⑨	3054000AA800790	Corner Holder Blacket	コーナー金具	J－45
		4010000EZ980140	Truss Head Tapping Screw 3×12 FCrM$_3$-2b	トラスタッピンネジ1種	
※	⑩	3010000NB805950	Handle Assembly	取手アッセン	
		4010000EQ035130	Round Head Wooden Screw 3.5×13 ZMC2-Y	丸木ネジ	
	⑪	4010000AA802450	Lock	パッチン錠	PM－430
		4010000EC230160	Truss Head Screw 3×16 FCrM$_3$ 2b	⊕トラス小ネジ	
		4010000EC230140	Truss Head Screw 3×14 FCrM$_3$ 2b	⊕トラス小ネジ	
		802460			
	⑫	3010000AA981810	Hanging Hinge	引掛蝶番	
		4010000EB230100	Flat Head Screw 3×10 FCrM$_3$ -2b	⊕皿小ネジ	
	⑬	3010000CB010310	Case Leg	脚	TA－20, 30 YC－30
		4010000EP335200	Flat Head Wooden Screw 3.5×20 ZMC2-Bl	⊕皿木ネジ	
※		3010000AA804540	Washer for Leg Holder	脚受座金	
		4010000EP335130	Flat Head Wooden Screw 3.5×13 ZMC2-Bl	⊕皿木ネジ	
※	⑭	3010000AA804290	Slip Washer	滑り座	
		4010000ER330160	Oval Head Wooden Screw 3×16 ZMC2-Bl	⊕丸皿木ネジ	
※	⑮	3010000NB805960	Pedal Stopper Band Assembly	ペダル止めバンド	
※		3010000AA804320	Hanging Holder Blacket	引掛金具	
		4010000EQ335130	Round Head Wooden Screw 3.5×13 ZMC2-Bl	⊕丸木ネジ	
※	⑯	3054000AA804360	Hinge	蝶番	
		4010000EO030120	Flat Head Tapping Screw 3×12 ZMC2-Y	皿タッピンネジ1種	
		3054000AA802530	Stay Left	ステー(左)	PM－700
		3054000AA802540	Holder Stay	ステー押え金具	－do.－
		4010000EQ031100	Round Head Wooden Screw 3.1×10 ZMC2-Y	丸小ネジ	－do.－

※ marked : New parts

Ref No.	Part No.(パーツ番号)	Description(部品名)		Remarks(備考)