

CONTENTS

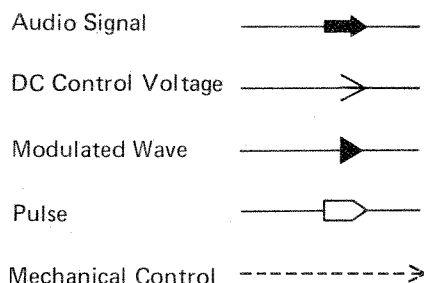
Specifications	2
Coding Guide	3
Unit Layout	4
Setup & Disassembly Procedures	5
Printed Circuit Board, Circuit Board Diagram, Interconnection Diagram, Circuit Board Wiring	
1. G7 Circuit Board Diagram, Interconnection Diagram	6
G7 Circuit Board Drawing	7
2. G2 - G6 Circuit Board Diagram, Interconnection Diagram	8
G2 - G6 Circuit Board Wiring	9
3. G1 Circuit Board Diagram, Interconnection Diagram	10
G1 Circuit Board Wiring	11
4. D3 Circuit Board Diagram, Interconnection Diagram	12
D3 Circuit Board Wiring	13
5. D2 Circuit Board Diagram, Interconnection Diagram	14
D2 Circuit Board Drawing	15
6. D1 Circuit Board Diagram, Interconnection Diagram	16
D1 Circuit Board Wiring	17
7. F Circuit Board Diagram, Interconnection Diagram	18
F Circuit Board Wiring	19
8. A Circuit Board Diagram, Interconnection Diagram	20
A Circuit Board Wiring	21
9. C1 Circuit Board Diagram, Interconnection Diagram	22
C1 Circuit Board Wiring	23
10. C2 Circuit Board Diagram, Interconnection Diagram	24
C2 Circuit Board Wiring	25
11. DC Circuit Board Diagram, Interconnection Diagram	26
DC Circuit Board Wiring	27
12. T1,T2 Circuit Board Diagram, Interconnection Diagram	28
CP-30 Parts List	

● SPECIFICATIONS

1. KEYBOARD	76 KEYS (E ₁ ~ G ₇)	6 OCTAVES 1/4
2. TONE TABLETS	PIANO 1	PIANO 1
	I ch PIANO 2	PIANO 2
	PIANO 3	II ch 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	YM2527	
	YM2537	
	CA30381	
	RC45582	
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	

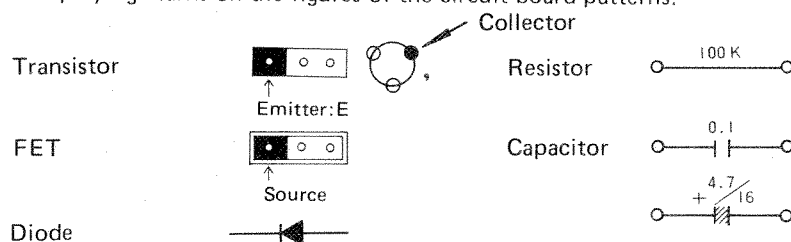
● CODING GUIDE

1. Designation of Signal Systems in Circuits



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.

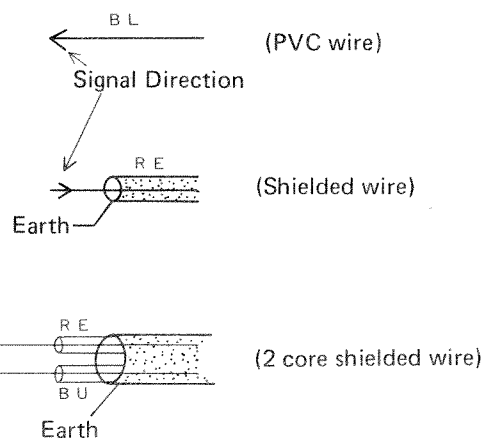


3. Designation of Wiring Materials

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

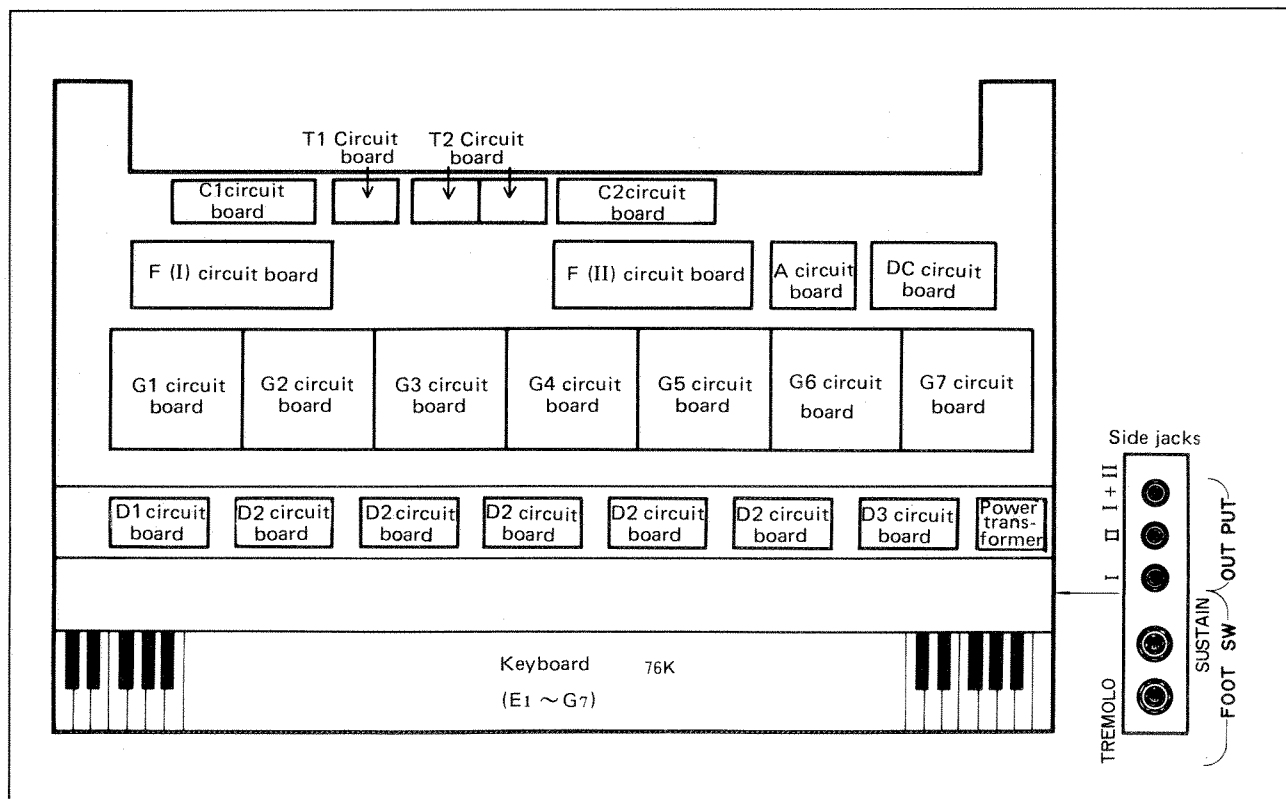
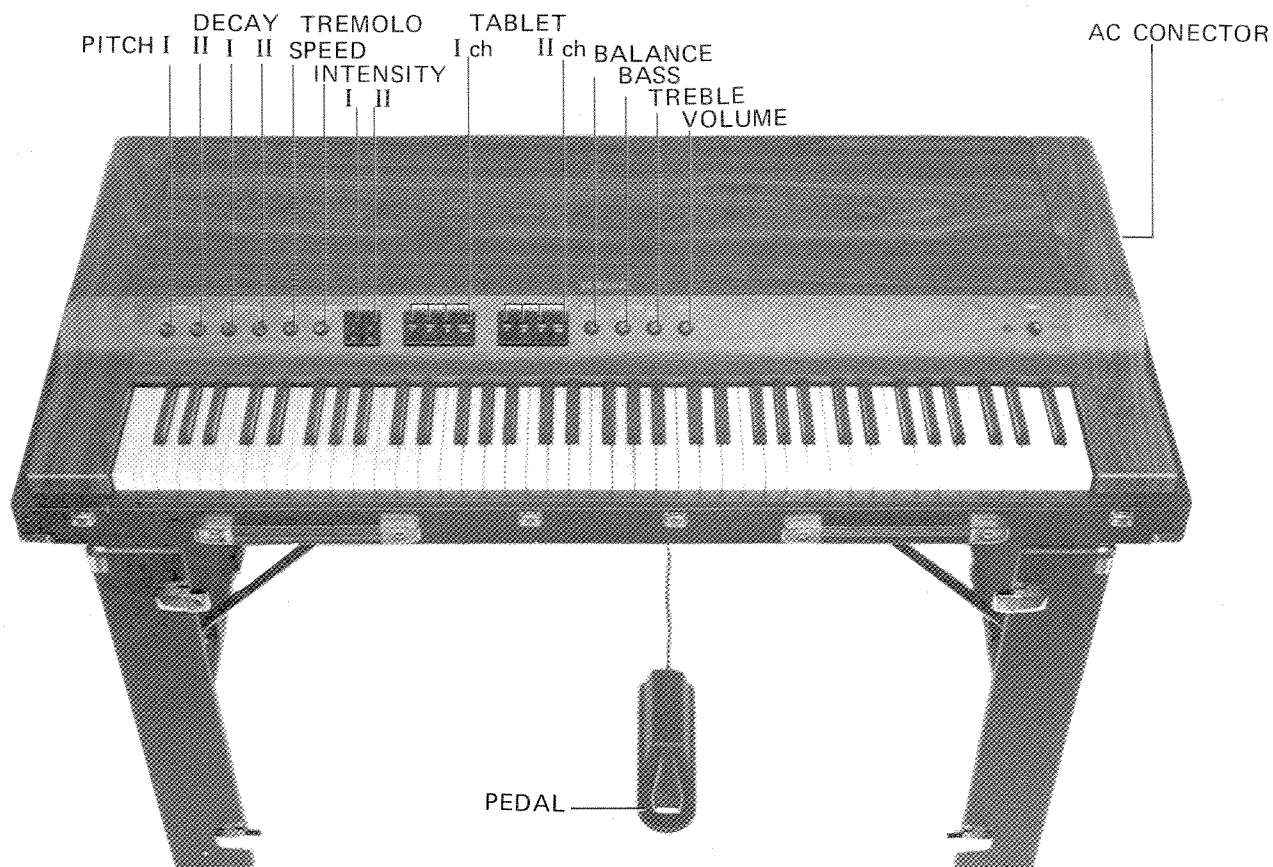
BL (Black)	WH (White)
BR (Brown)	GG (Grass Green)
RE (Red)	SB (Sky Blue)
OR (Orange)	PK (Pink)
YE (Yellow)	TR (Transparent)
GR (Green)	J (Jumper)
BE (Blue)	
VI (Violet)	
GY (Gray)	

2. Designation of Wiring materials



4. CP-30 consists of sound compassing E₁ - G₇ (76 keys) with A₄ = 440 (Hz).

UNIT LAYOUT



G1 Circuit Board & Wiring

G1

NA80222

1. Transistor

Tr1 ~ 18 : 2SA844 (D) (E)

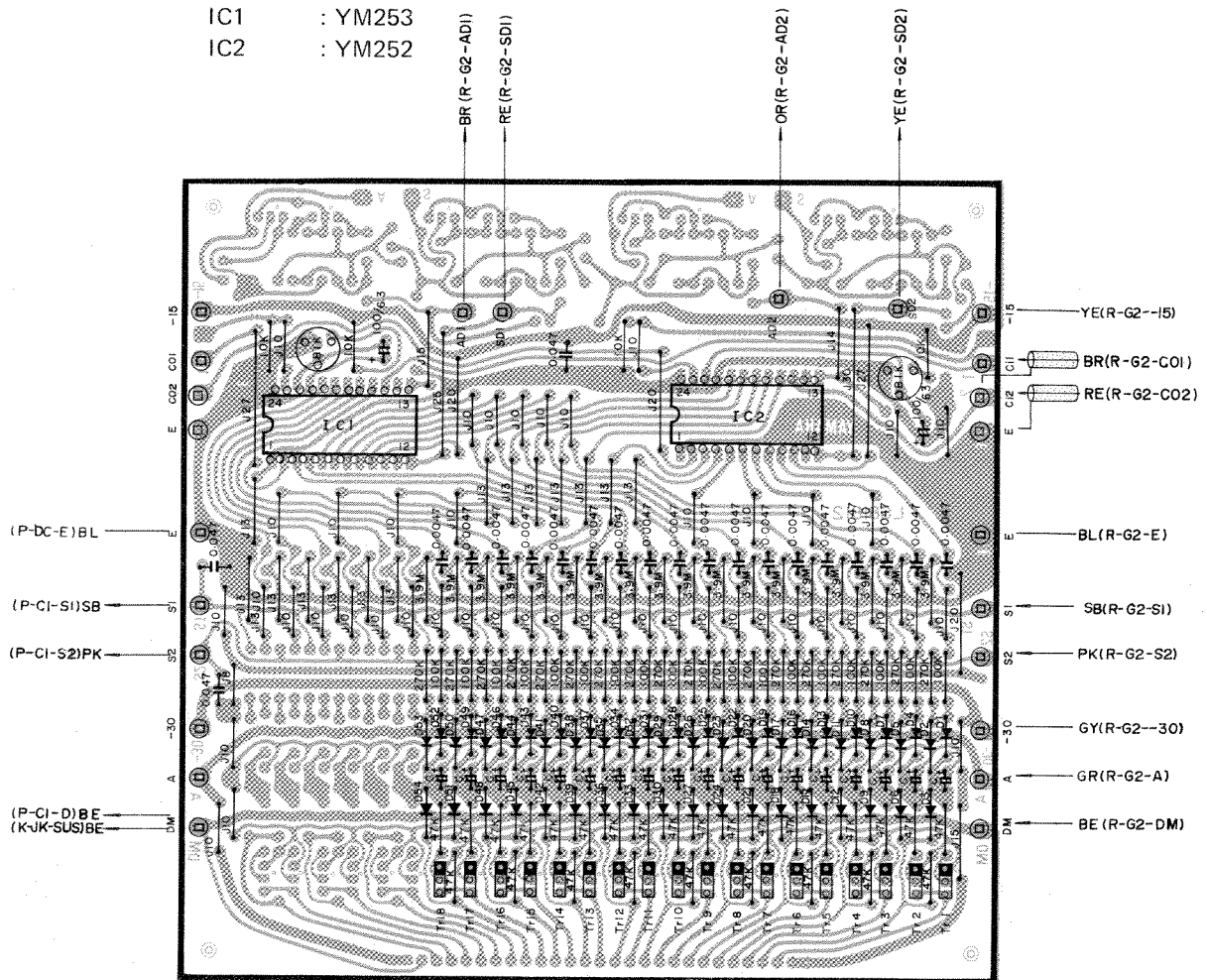
3. Diode

D1 ~ 54 : 1S1555

2. IC

IC1 : YM253

IC2 : YM252



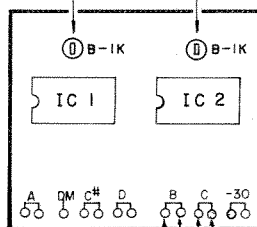
▼ Adjustment Locations

Channel I

attack adjusting pot,

Channel II

attack adjusting pot



Drive input

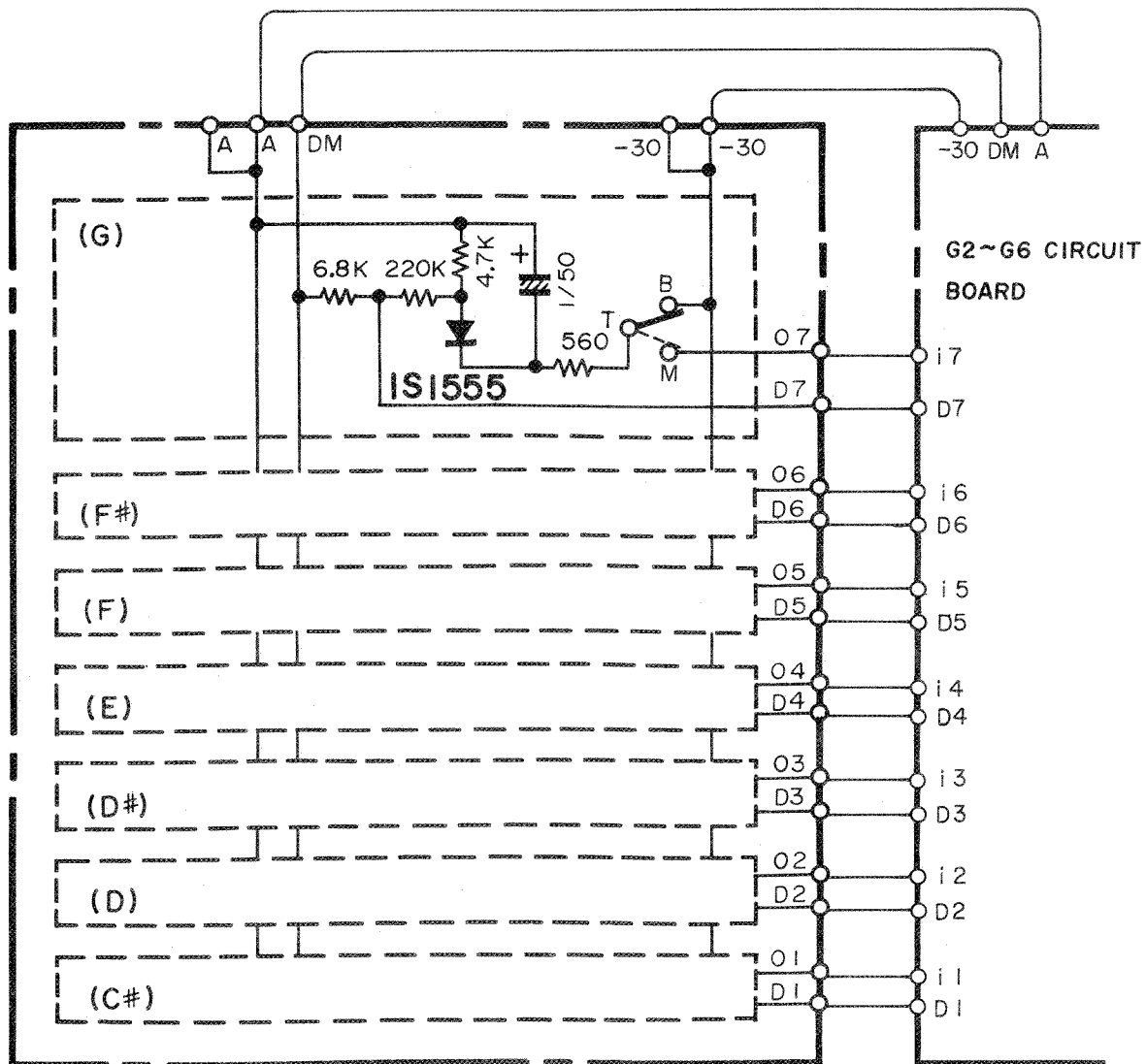
Damper input

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

1. Remove wires from output terminals (AD1, SD1, AD2 and SD2). Connect a 1K Ω 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 wave-shape should be as shown in the table below. Adjust respective B-1K Ω 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



D3 circuit board

Nitto tape 507

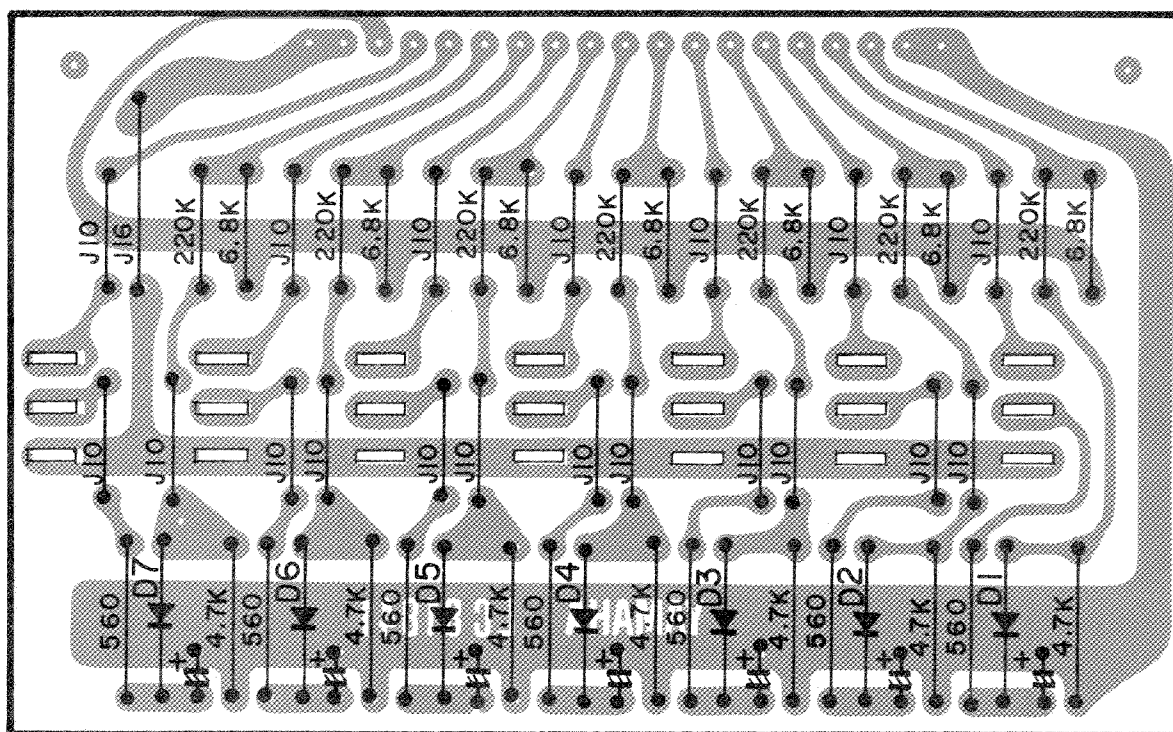
10 x 90 mm

G7 circuit board

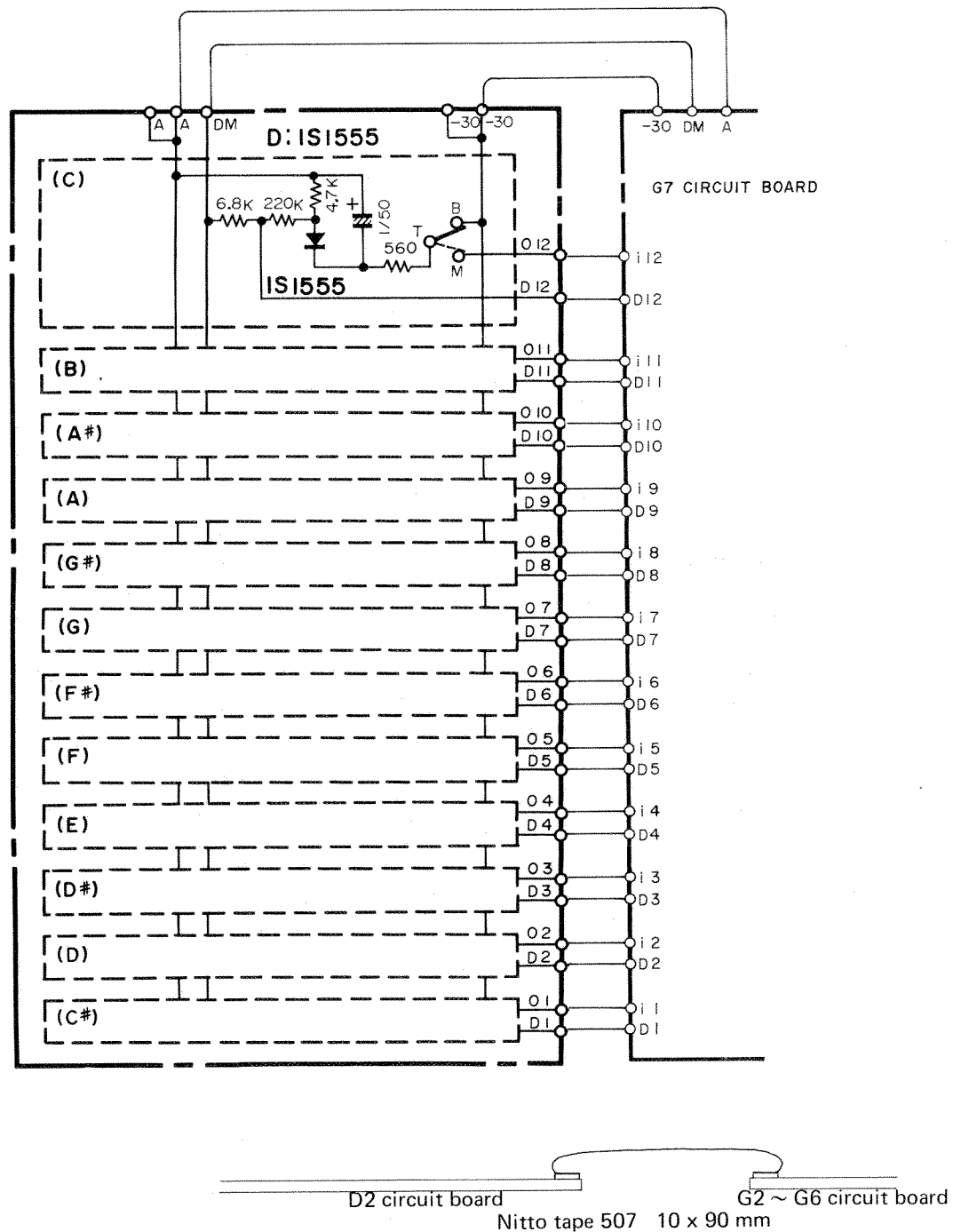
Note) Connection of D3 circuit board and G7 circuit board is, wired with jumper wire, and reinforced with two sided adhesive tape.

D3 Circuit Board & Wiring**D3**

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



5. D2 Circuit



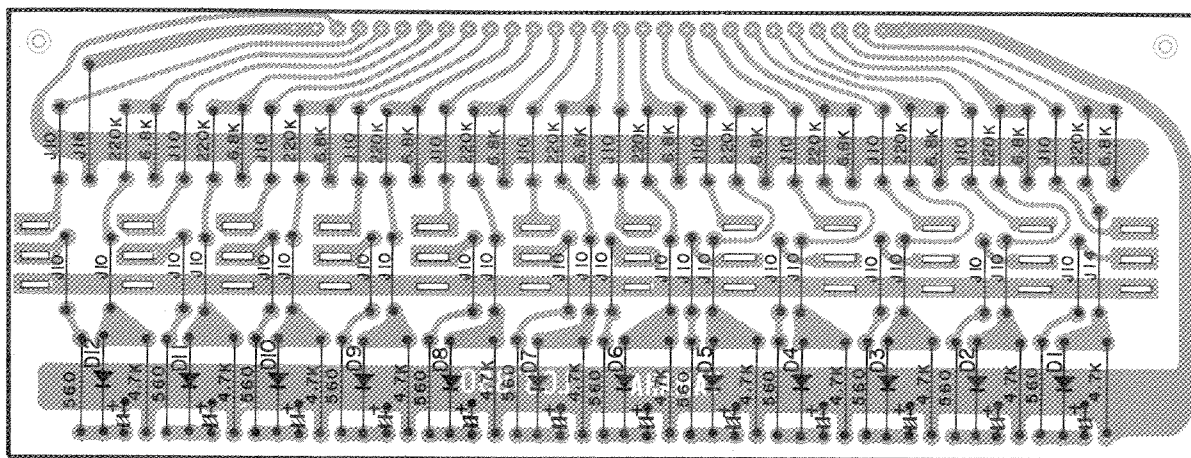
Note) D2 board is secured by both sides adhesive tape, after wiring is made with regard to each board of G2 - G6 (5 sheets) by jumper wire.

The five D2 boards are wired by jumper wire to boards G2 - G6 (5 sheets) and secured with two sided adhesive tape.

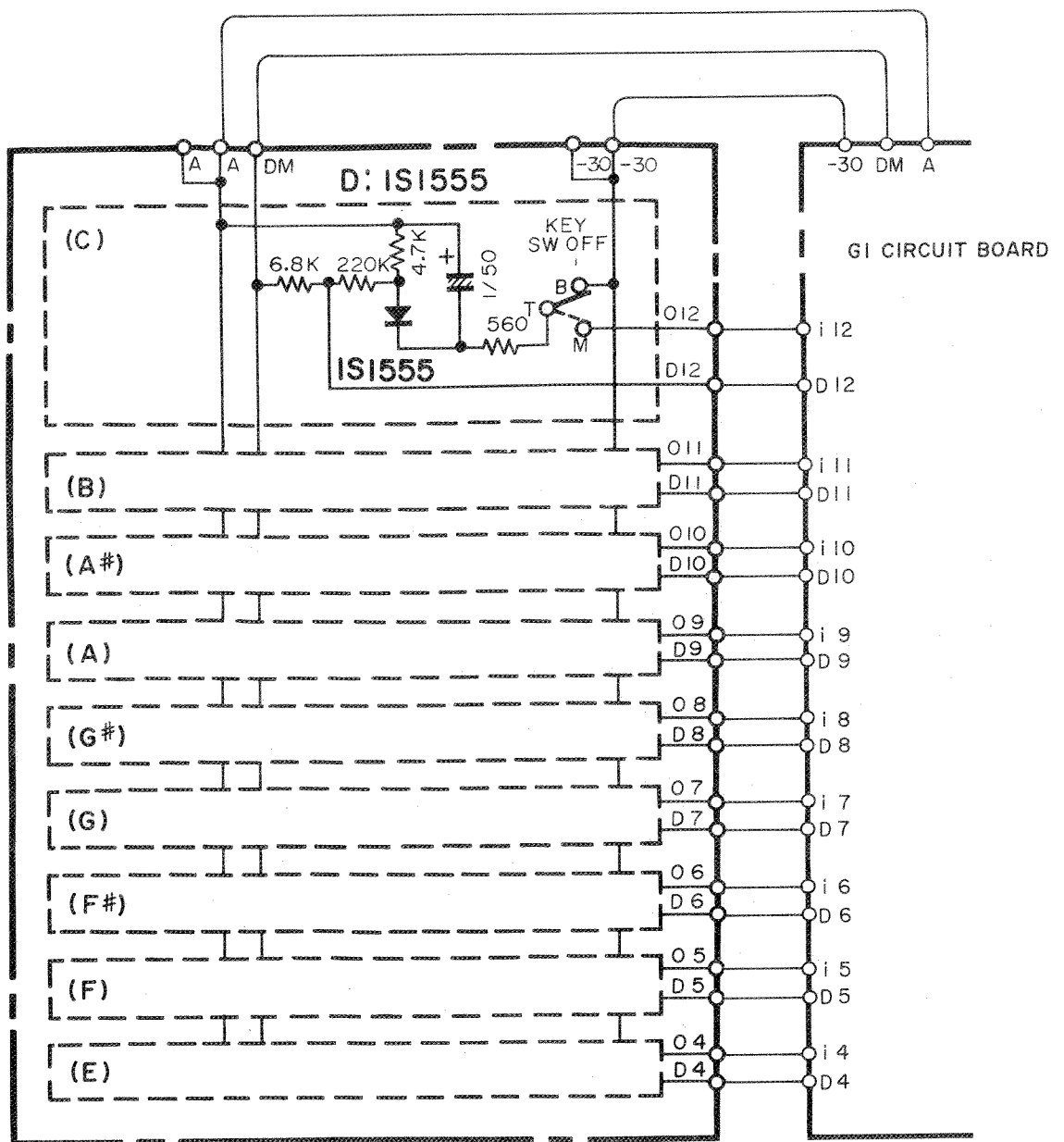
D2 Circuit Board & Wiring

D2

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



6. D1 Circuit



D1 circuit board

Nitto tape 507 10 x 90 mm

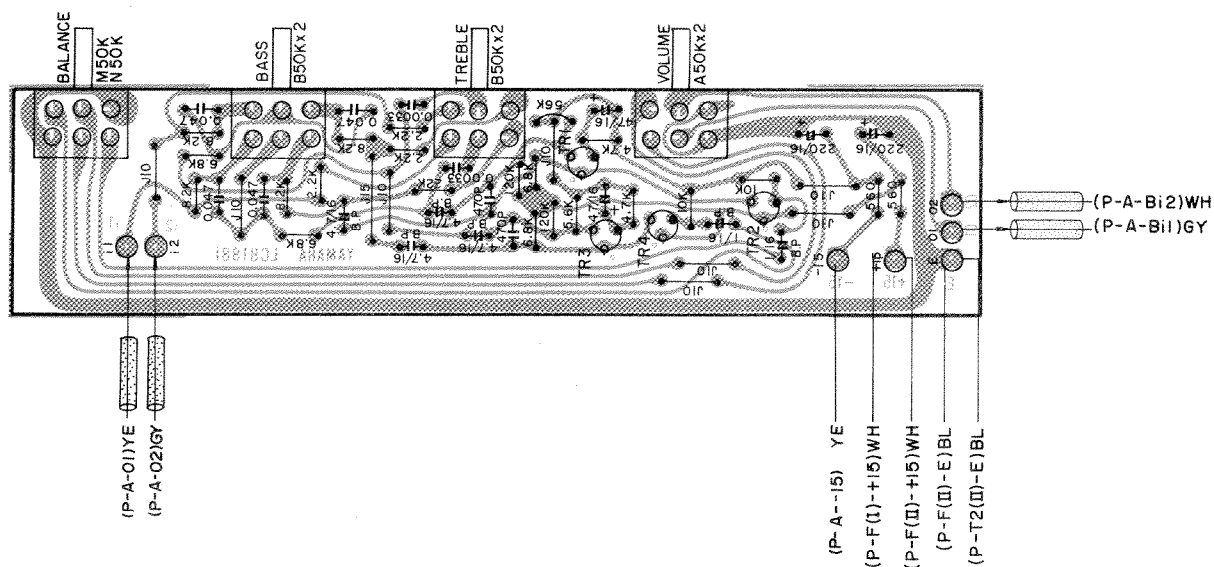
G1 circuit board

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

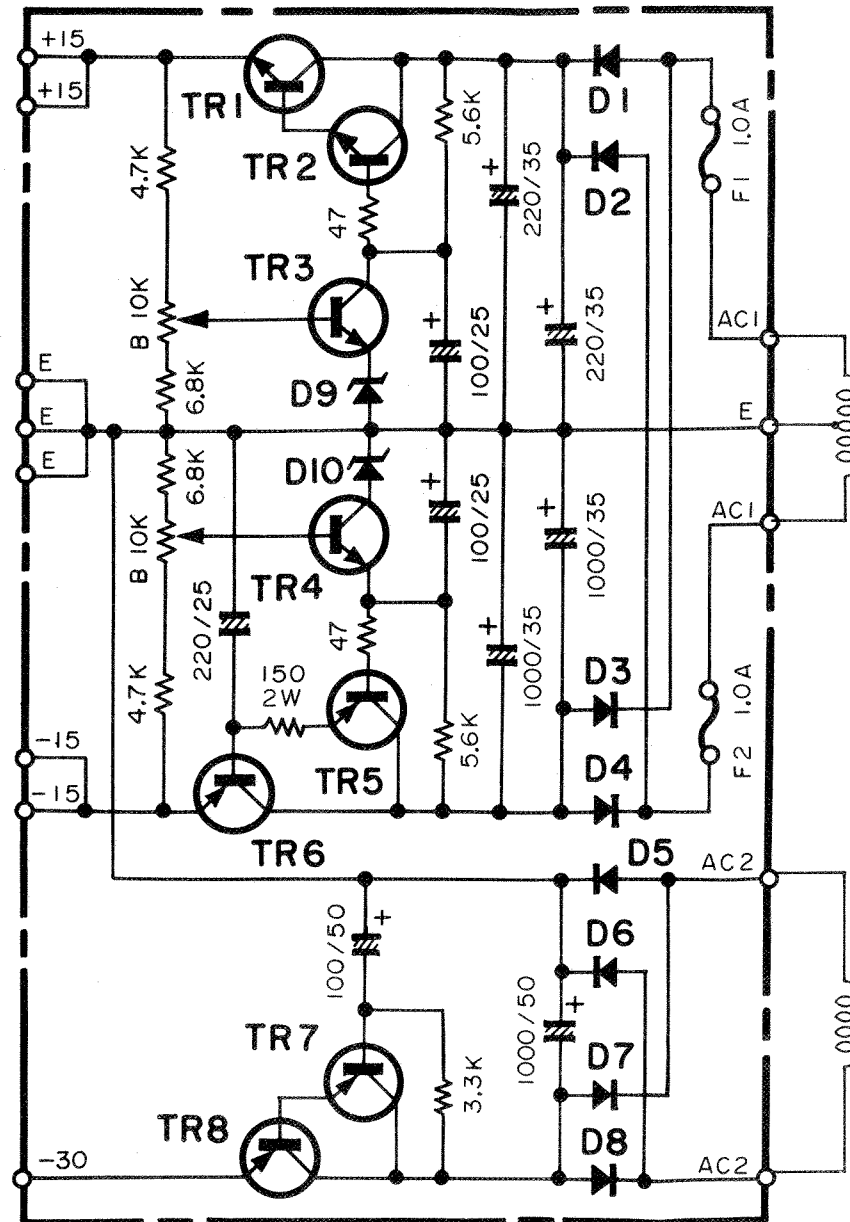
1. Transistor
 Tr1, 3 : 2SA561 (O) (Y)
 Tr2, 4, 5, 6: 2SC1681 (BL)
2. IC
 IC1, 2 : CA3080



Horizontal component values on ckt board are
 upside down.

11. DC Circuit

DC CIRCUIT BOARD

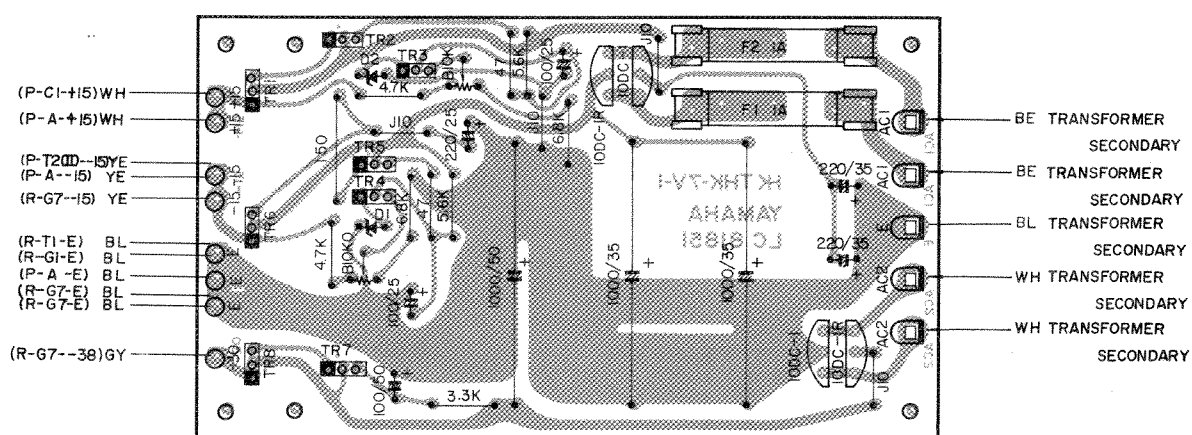


DC Circuit Board & Wiring

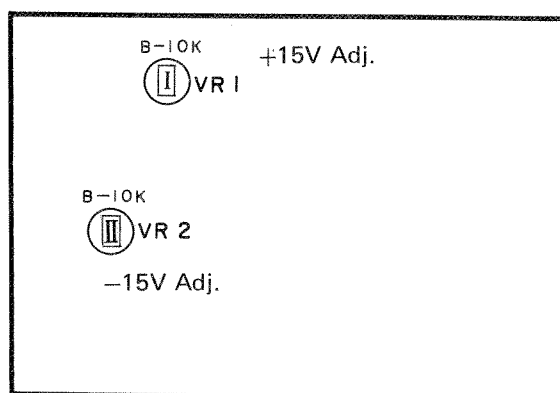
DC

1. Transistor

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

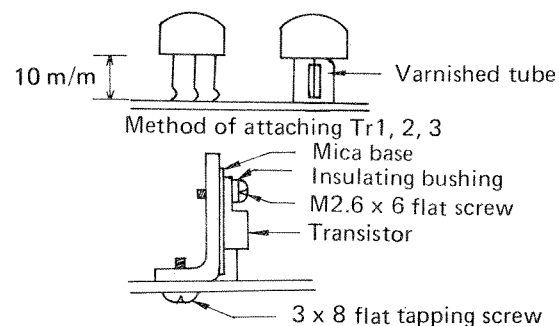


▼ Adjustment Locations



▼ Remarks

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

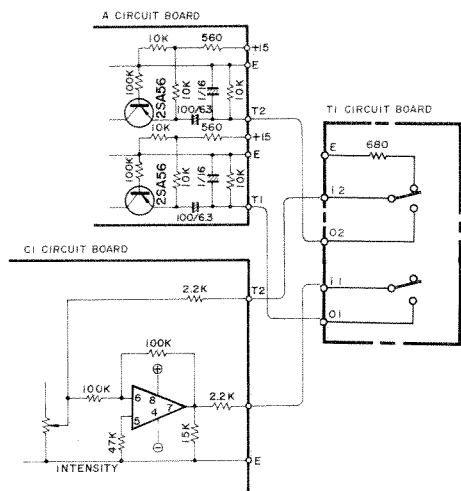


Silicon grease is applied between transistor, mica base and radiating plate, respectively.

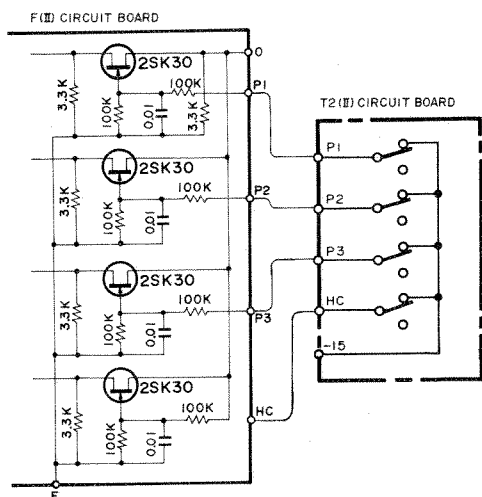
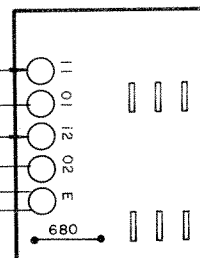
All electrolytic capacitors are firmly attached.

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

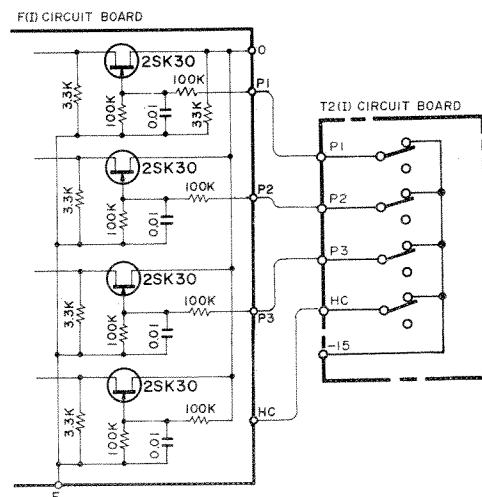
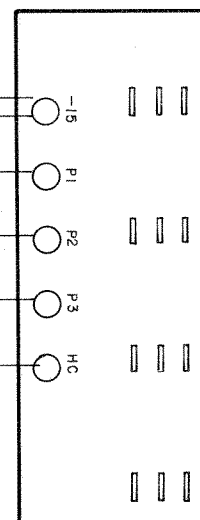
12. T1, T2 Circuit, Circuit Board & Wiring



(P-CI-T1)GR
(P-A-T1)VI
(P-CI-T2)OR
(P-A-T2)GY
(P-CI-E)BL
(P-DC-E)BL



(P-T(I)-15)YE
(P-CI-15)YE
(P-F(I)-P1)OR
(P-F(I)-P2)YE
(P-F(I)-P3)GR
(P-F(I)-HC)BE

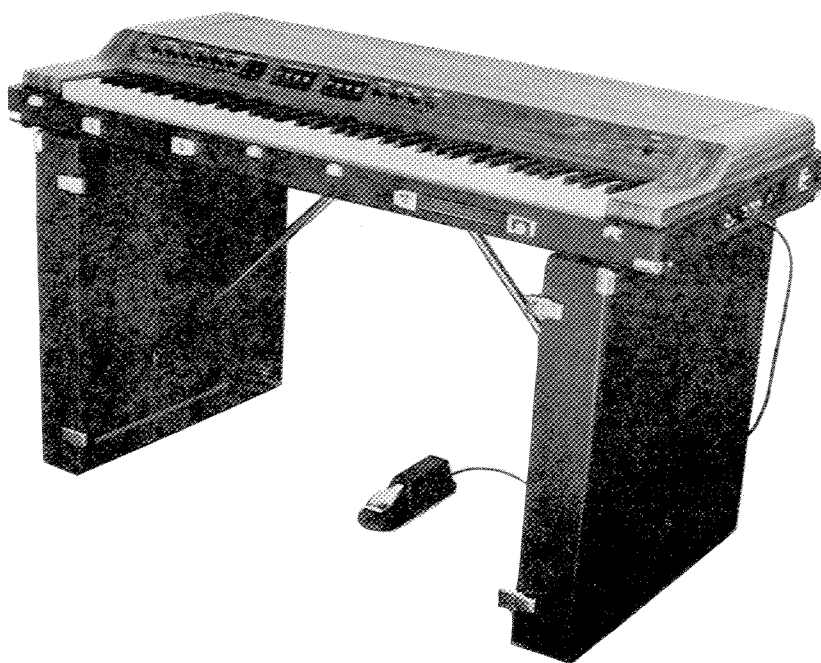


YAMAHA

ELECTRONIC PIANO

CP-30

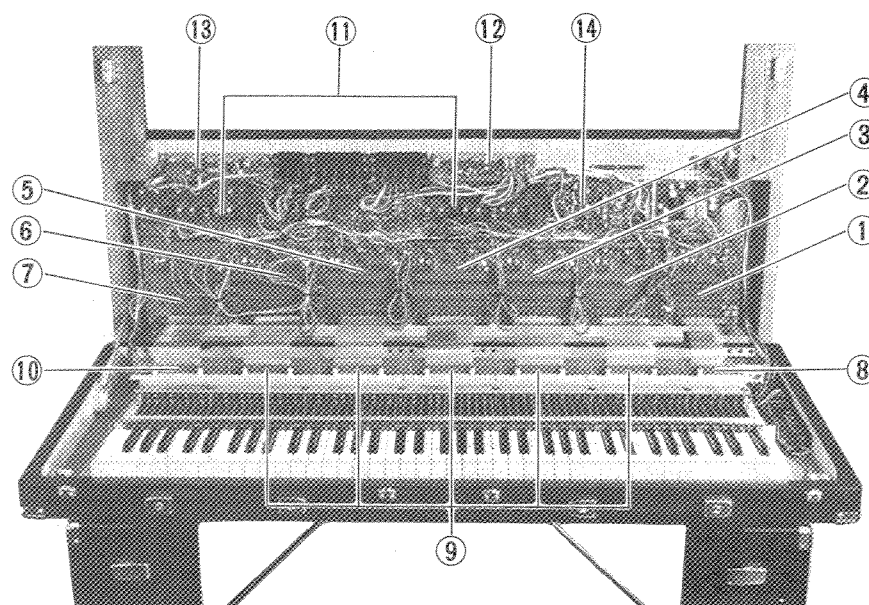
PARTS LIST



CONTENTS

1 . Circuit Boards & Components(シート及びシート部品)	1
2 . Power & Components (電源部品)	3
3 . Contral Panel & Components (コントロールパネル部品)	4
4 . Side Panel & Components (サイドパネル部品)	5
5 . Keyboard & Components (鍵盤部品)	6
6 . Sustainer Pedal (サステイナーペダル部品)	7
7 . Cabinet (外装部品)	8

1. Circuit Boards & Components

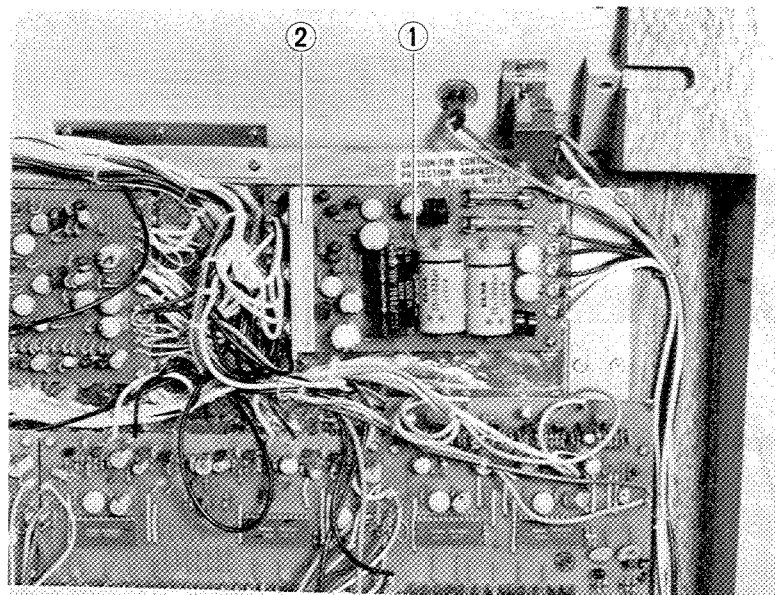


Ref No	Part No.(パーツ番号)	Description(部品名)	Remarks(備考)
※ ①	3 0 1 2 3 0 N A 8 0 2 2 8 0	G 7 Circuit Board #81821	G 7 シート
※ ②	3 0 1 2 3 0 N A 8 0 2 2 7 0	G 6 -do.- #81811	G 6 シート
※ ③	3 0 1 2 3 0 N A 8 0 2 2 6 0	G 5 -do.- -do.-	G 5 シート
※ ④	3 0 1 2 3 0 N A 8 0 2 2 5 0	G 4 -do.- -do.-	G 4 シート
※ ⑤	3 0 1 2 3 0 N A 8 0 2 2 4 0	G 3 -do.- -do.-	G 3 シート
※ ⑥	3 0 1 2 3 0 N A 8 0 2 2 3 0	G 2 -do.- -do.-	G 2 シート
※ ⑦	3 0 1 2 3 0 N A 8 0 2 2 2 0	G 1 -do.- -do.-	G 1 シート
※ ⑧	3 0 1 2 3 0 N A 8 0 2 2 1 0	D 3 -do.- W/Key Switch	D 3 シート
※ ⑨	3 0 1 2 3 0 N A 8 0 2 2 0 0	D 2 -do.- -do.-	D 2 シート
※ ⑩	3 0 1 2 3 0 N A 8 0 2 1 9 0	D 1 -do.- -do.-	D 1 シート
※ ⑪	3 0 1 2 3 0 N A 8 0 2 3 0 0	F Circuit Board #81801	F シート
※ ⑫	3 0 1 2 0 0 N A 8 0 2 1 6 0	C 2 -do.- #81881	C 2 シート
※ ⑬	3 0 1 2 0 0 N A 8 0 2 1 5 0	C 1 -do.- #81870	C 1 シート
※ ⑭	3 0 1 2 0 0 N A 8 0 2 1 4 0	A -do.- #81861	A シート
	4 0 1 0 0 0 1 A 0 4 9 5 0 0	Transistor 2 S A 495(O)(Y)	トランジスター
	4 0 1 0 0 0 1 A 0 5 6 1 7 0	-do.- 2 S A 561(O)(Y)	トランジスター
	4 0 1 0 0 0 1 A 0 8 4 4 1 0	-do.- 2 S A 844(D)(E)	トランジスター
	4 0 1 0 0 0 1 C 0 4 5 8 5 0	-do.- 2 S C 458 L G (C)	トランジスター
	4 0 1 0 0 0 1 C 0 7 5 2 3 0	-do.- 2 S C 752(O)(Y)	トランジスター
	4 0 1 0 0 0 1 C 0 8 2 8 9 0	-do.- 2 S C 828	トランジスター
	4 0 1 0 0 0 1 C 1 6 8 1 2 0	-do.- 2 S C 1682(BL)	トランジスター
	4 0 1 0 0 0 1 E 0 0 0 0 1 0	F E T 2 S K 30	F E T
	4 0 1 0 0 0 1 F 0 0 0 0 4 0	Diode 1 S 1555	ダイオード
	4 0 1 0 0 0 1 F 0 0 0 4 6 0	-do.- -do.-	ダイオード Tapeing
	4 0 1 0 0 0 1 H 0 0 0 0 6 0	-do.- 10 D - 4	ダイオード
※	4 0 1 0 0 0 1 G 0 0 0 3 6 0	Integrated Circuit C A 3080	I C
	4 0 1 0 0 0 1 G 0 0 1 3 9 0	-do.- R C 4558	I C

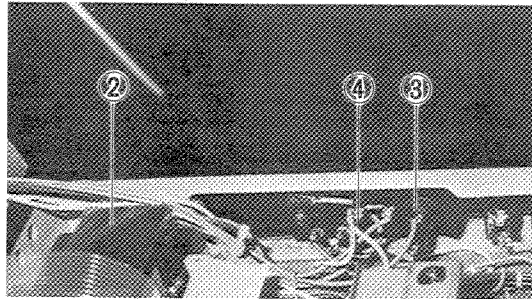
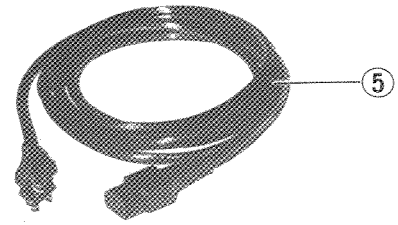
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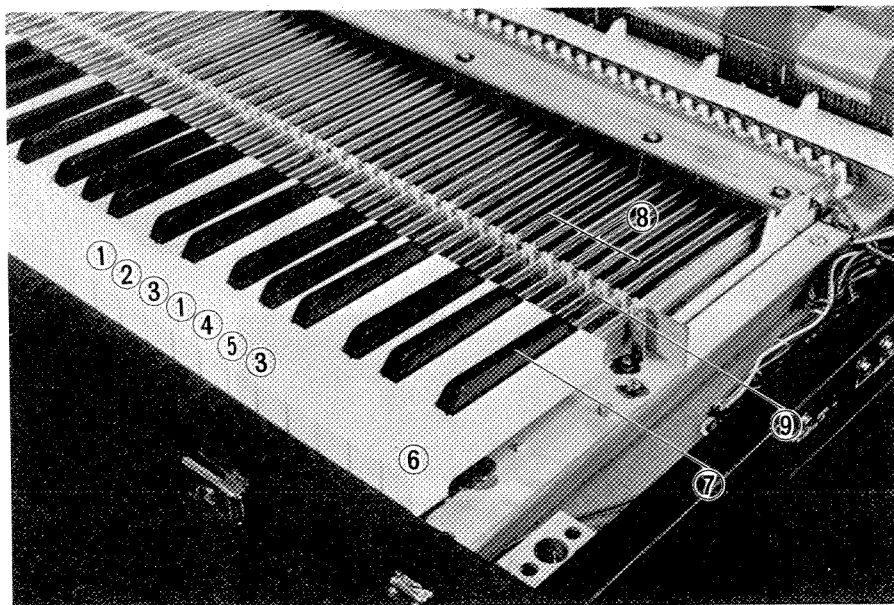
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* marked : New parts

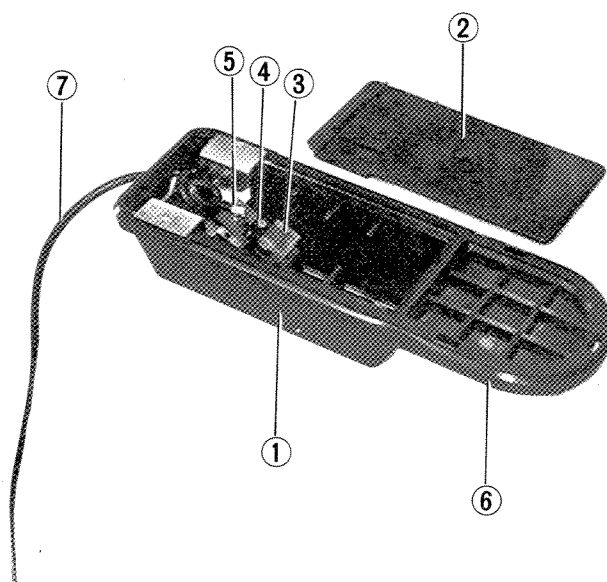


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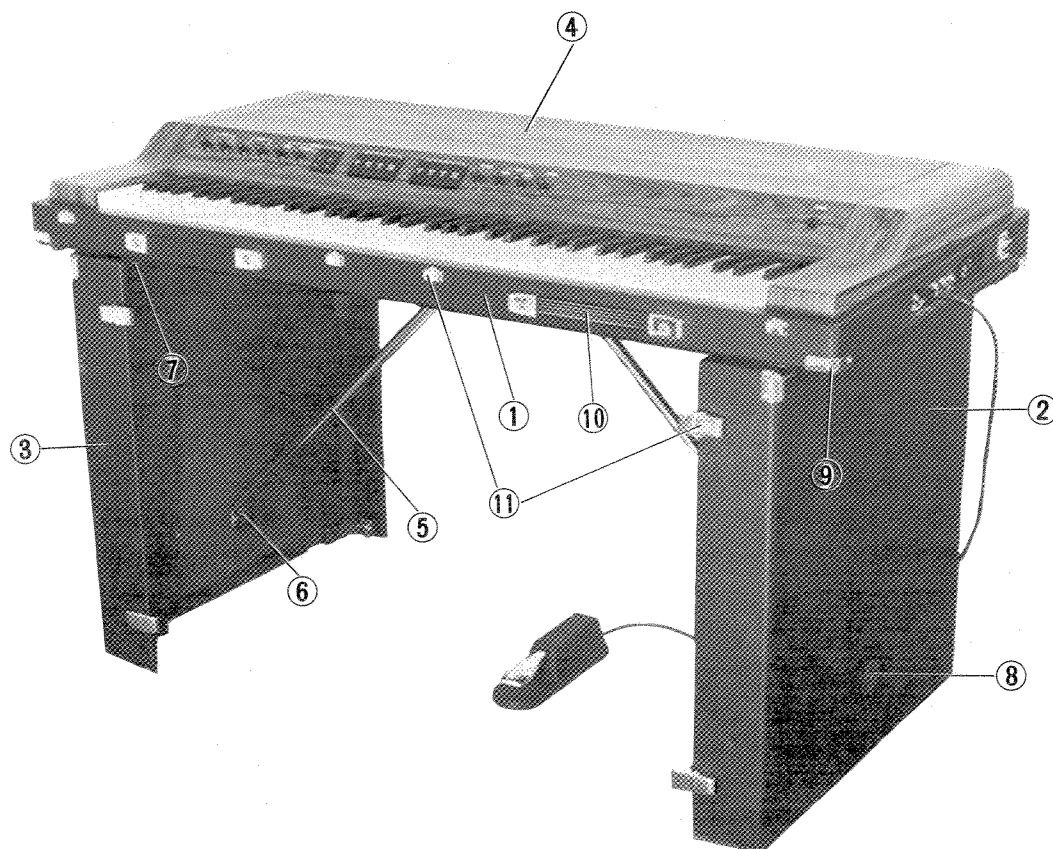
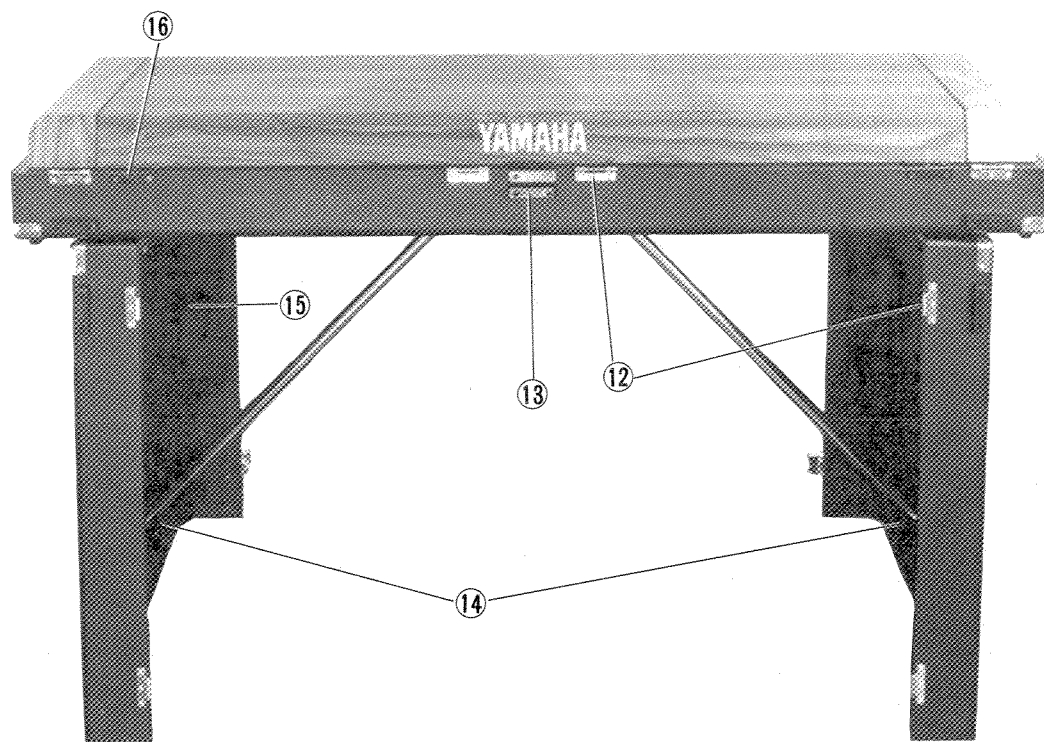
※ marked : New parts

CP-30(1976. 12. #1001~)

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※ marked : New parts

7 . Cabinet



Ref. No.	Part No.(パーツ番号)	Description(部品名)	Remarks(備考)
※ ①	3:0:1:2:3:0:2:4:0:2:1:4:0:0	Bottom Frame	底 枠
※ ②	3:0:1:2:3:0:2:4:0:2:1:3:5:0	Lege (Left)	蓋 脚(左)
※ ③	3:0:1:2:3:0:2:4:0:2:1:3:6:0	-do.- (Right)	蓋 脚(右)
※ ④	3:0:1:2:3:0:2:4:0:4:1:0:1:0	Top Board	屋 根
※ ⑤	3:0:1:0:0:0:0:A:8:0:4:3:9:0	Stay	脚 柱
※ ⑥	3:0:1:0:0:0:0:C:B:8:0:8:3:3:0	Knob Bolt	ノ ブ ネ ジ
	3:0:1:0:0:0:0:A:8:0:4:6:3:0	Stay Ling	脚 柱 リ ン グ
※ ⑦	4:0:1:0:0:0:0:C:B:8:0:8:3:4:0	Knob Bolt	ノ ブ ネ ジ
※ ⑧	3:0:1:0:0:0:0:A:8:0:4:2:7:0	Stay Nut	脚 用 ナ ッ ト
	4:0:1:0:0:0:0:E:B:3:3:0:1:6:0	Flat Head Screw 3×16 ZMC2-BI	皿 小 ネ ジ
⑨	3:0:5:4:0:0:0:A:8:0:0:7:9:0	Corner Holder Bracket	コ ー ナ ー 金 具 J-45
	4:0:1:0:0:0:0:E:Z:9:8:0:1:4:0	Truss Head Tapping Screw 3×12 FCrM ₃ -2b	トラスタッピンネジ1種
※ ⑩	3:0:1:0:0:0:0:N:B:8:0:5:9:5:0	Handle Assembly	取 手 ア ッ セ ン
	4:0:1:0:0:0:0:E:Q:0:3:5:1:3:0	Round Head Wooden Screw 3.5×13 ZMC2-Y	丸 木 ネ ジ
⑪	4:0:1:0:0:0:0:A:8:0:2:4:5:0	Lock	バ ッ チ ン 錠 PM-430
	4:0:1:0:0:0:0:E:C:2:3:0:1:6:0	Truss Head Screw 3×16 FCrM ₃ 2b	⊕トラス小ネジ
	4:0:1:0:0:0:0:E:C:2:3:0:1:4:0	Truss Head Screw 3×14 FCrM ₃ 2b	⊕トラス小ネジ
	802460		
⑫	3:0:1:0:0:0:0:A:9:8:1:8:1:0	Hanging Hinge	引 掛 蝶 番
	4:0:1:0:0:0:0:E:B:2:3:0:1:0:0	Flat Head Screw 3×10 FCrM ₃ -2b	⊕ 皿 小 ネ ジ
⑬	3:0:1:0:0:0:0:C:B:0:1:0:3:1:0	Case Leg	脚 TA-20, 30 YC-30
	4:0:1:0:0:0:0:E:P:3:3:5:2:0:0	Flat Head Wooden Screw 3.5×20 ZMC2-BI	⊕ 皿 木 ネ ジ
※	3:0:1:0:0:0:0:A:8:0:4:5:4:0	Washer for Leg Holder	脚 受 座 金
	4:0:1:0:0:0:0:E:P:3:3:5:1:3:0	Flat Head Wooden Screw 3.5×13 ZMC2-BI	⊕ 皿 木 ネ ジ
※ ⑭	3:0:1:0:0:0:0:A:8:0:4:2:9:0	Slip Washer	滑 り 座
	4:0:1:0:0:0:0:E:R:3:3:0:1:6:0	Oval Head Wooden Screw 3×16 ZMC2-BI	⊕ 丸 皿 木 ネ ジ
※ ⑮	3:0:1:0:0:0:0:N:B:8:0:5:9:6:0	Pedal Stopper Band Assembly	ペダル止めバンド
※	3:0:1:0:0:0:0:A:8:0:4:3:2:0	Hanging Holder Bracket	引 掛 金 具
	4:0:1:0:0:0:0:E:Q:3:3:5:1:3:0	Round Head Wooden Screw 3.5×13 ZMC2-BI	⊕ 丸 木 ネ ジ
※ ⑯	3:0:5:4:0:0:0:A:8:0:4:3:6:0	Hinge	蝶 番
	4:0:1:0:0:0:0:E:Q:0:3:0:1:2:0	Flat Head Tapping Screw 3×12 ZMC2-Y	皿タッピンネジ1種
	3:0:5:4:0:0:0:A:8:0:2:5:3:0	Stay Left	ス テ ー (左) PM-700
	3:0:5:4:0:0:0:A:8:0:2:5:4:0	Holder Stay	ステー押え金具 -do.-
	4:0:1:0:0:0:0:E:Q:0:3:1:1:0:0	Round Head Wooden Screw 3.1×10 ZMC2-Y	丸 小 ネ ジ -do.-

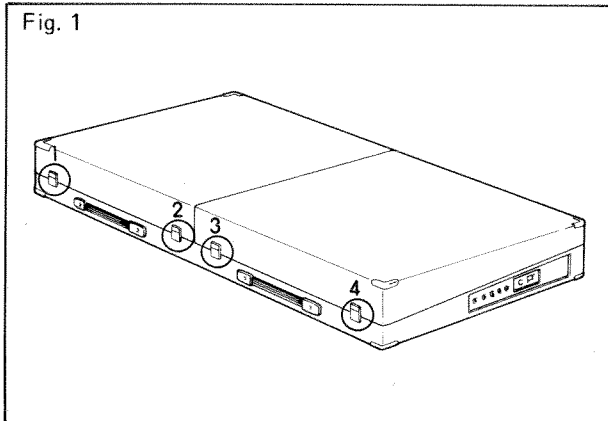
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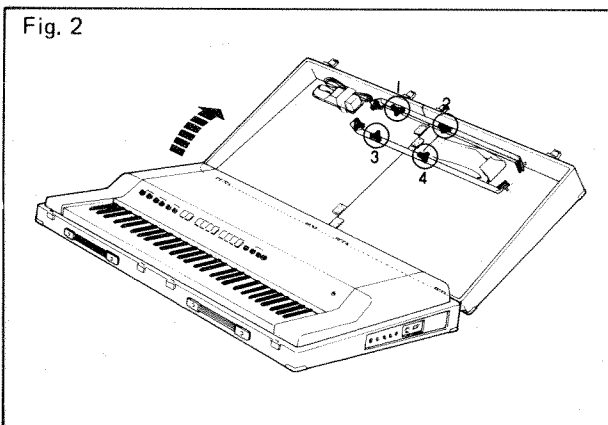
● SETUP

1. Removal Top Lid

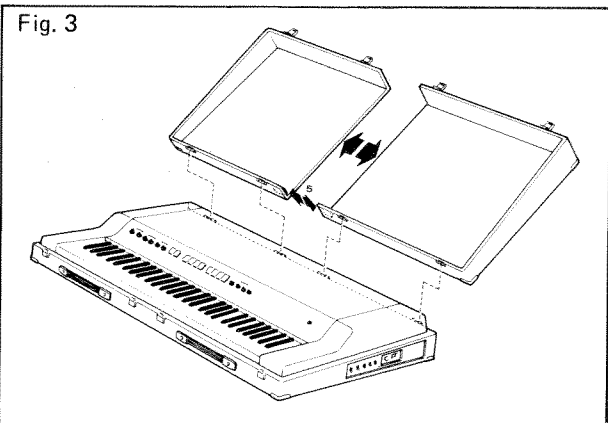
- Unlatch the locks ① ~ ④ of the top lid, (Fig. 1) then lift the lid.



- Remove the screws ① ~ ④ on the in side of the lid and take out the two supporting bars, the power cord and the sustain pedal (refer to Fig. 2).

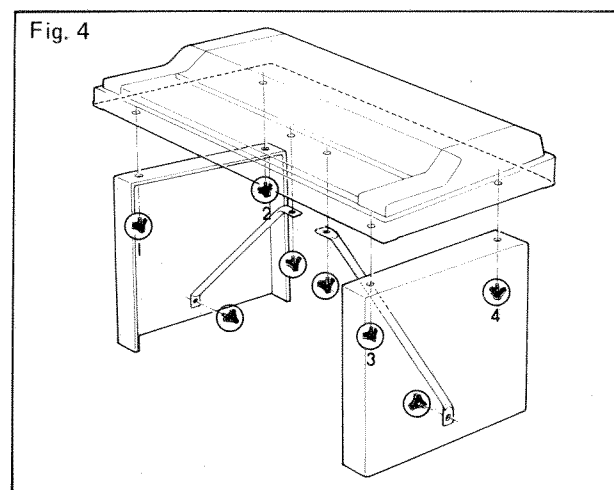


- Remove the lock ⑤ on the rear in side of the lid, then separate the right and left parts of the cover (refer to Fig. 3).



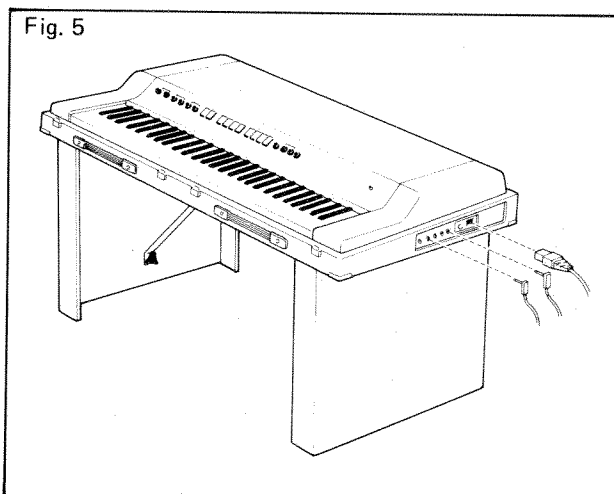
2. Assembly of the Body

- Position the body on a suitable base, then attach the lids on both sides (refer to Fig. 4).
* Use screws ① ~ ④ as shown in Fig. 1 when attaching the lids.
- Insert the supporting bars between the body and the lids on both sides, then tighten them by the screws (refer to Fig. 4).



3. Interconnection

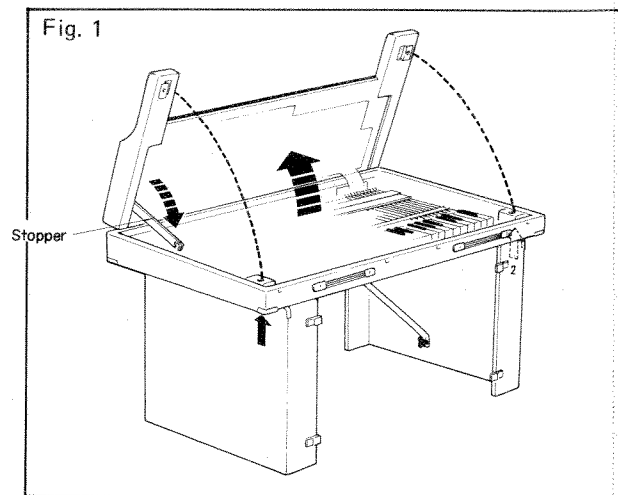
Insert the plugs of the power cord, output cord, pedal switch, etc. into the body (refer to Fig. 5)



● DISASSEMBLY PROCEDURES

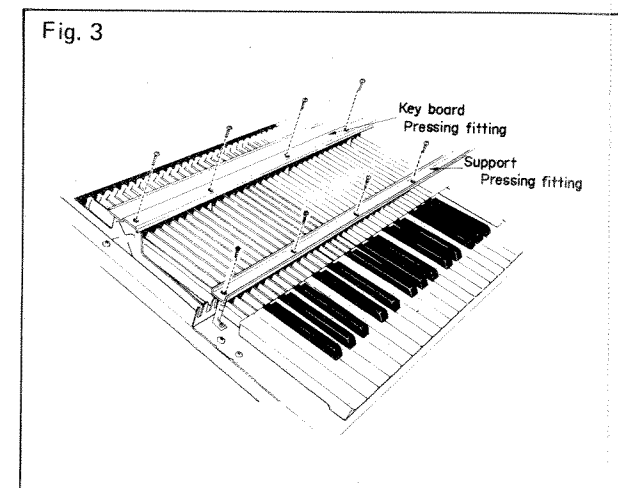
1. Opening and Closing the Panel

- Loosen the screws 1 and 2 located below the both sides of the body, then raise the panel upward.
- Fix the panel by hooking the stopper stored at the left side of the panel onto the body (refer to Fig. 1).



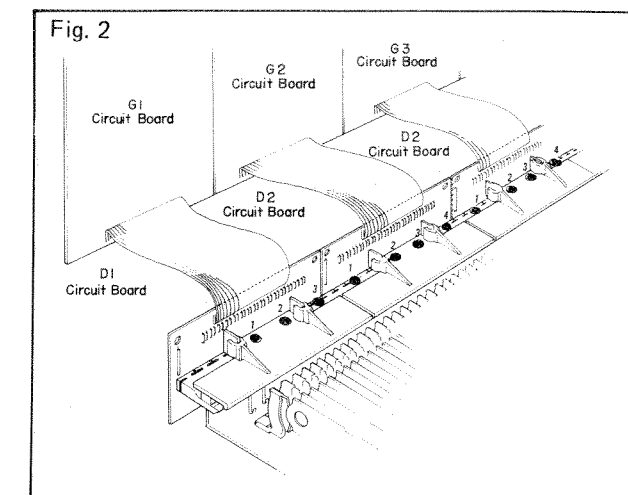
3. Keyboard Removal

- Open the panel referring to the step 1.
- Remove the screws of the keyboard pressing fitting and the support pressing fitting.
- When removing the keyboard, remove the screw of the D board while taking care not to dash the rear part of the keyboard against the switch pieces, then move the D board to the rear side and remove the keyboard.
- Make sure to remove the black key previously and then pull out the white key.



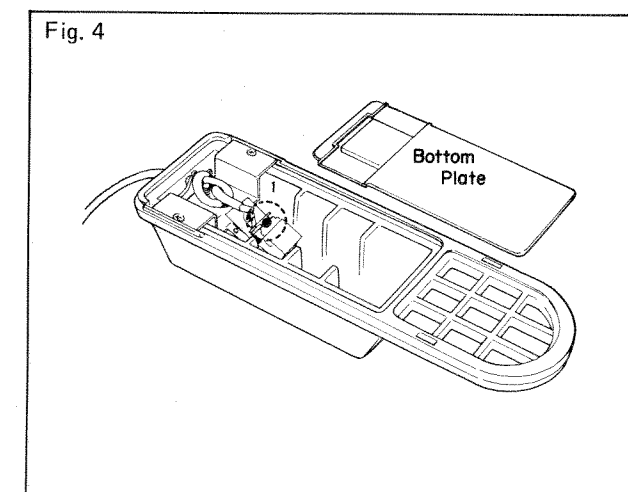
2. D Circuit Board Removal

- Open the panel referring to the step 1.
- Remove the screws 1 - 4 as shown in Fig. 2, then remove the boards D1 ~ D3.

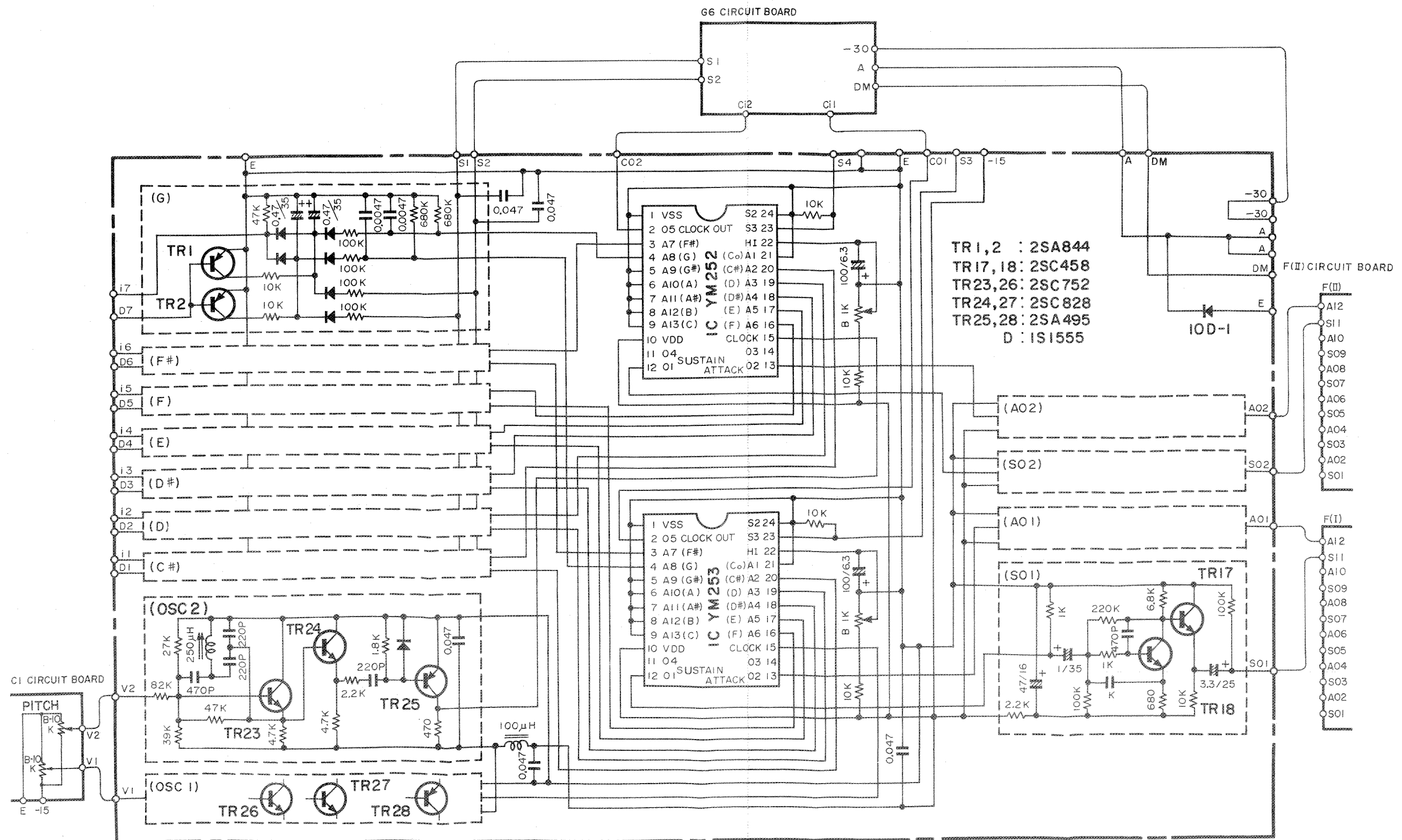


4. Disassembly of the Pedal

- Remove the pedal by inserting the fingers, as if peeling it.
- Replace the pedal switch after removing the screw 1.

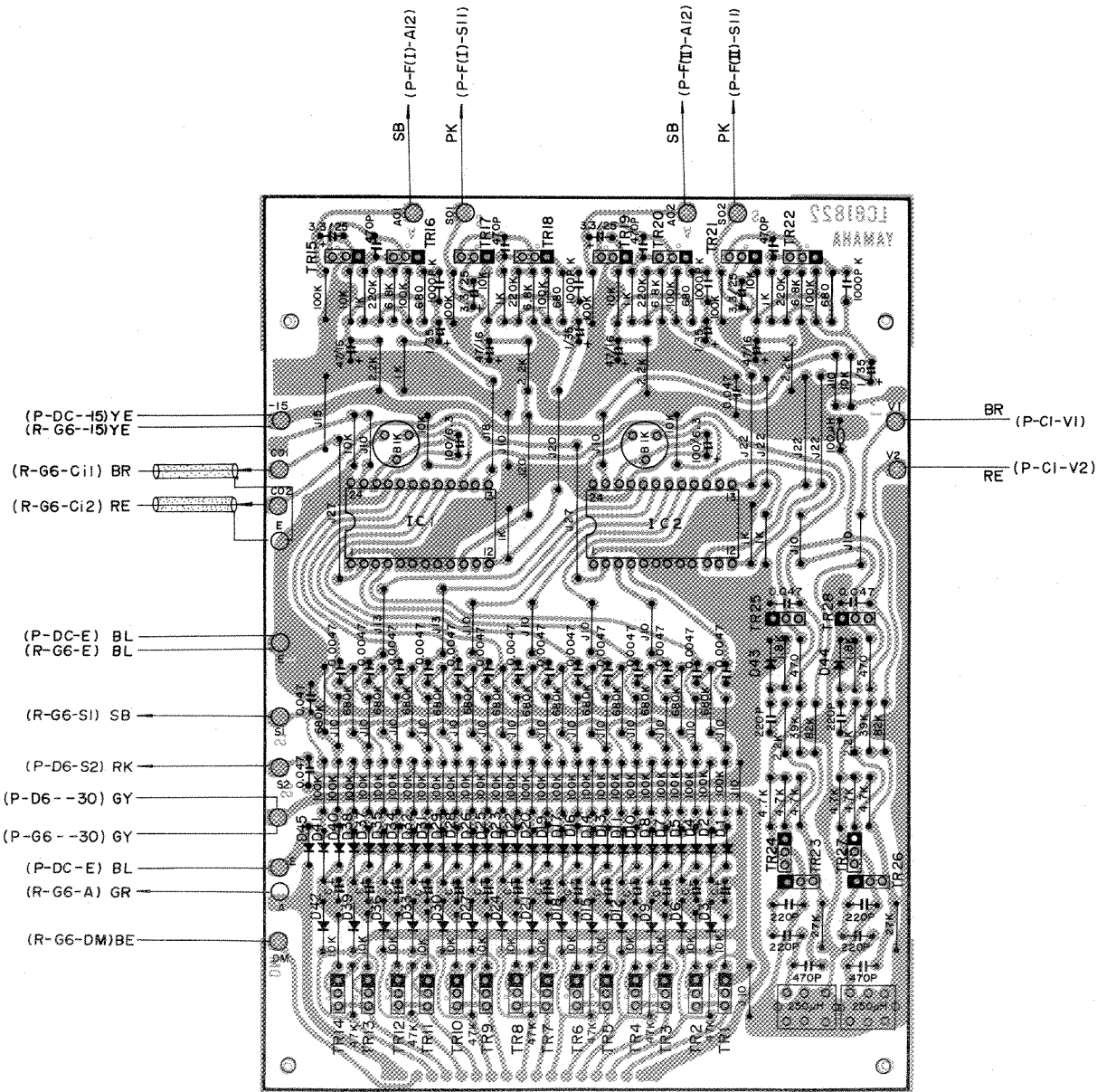


1. G7 Circuit (C7 # ~ G7)



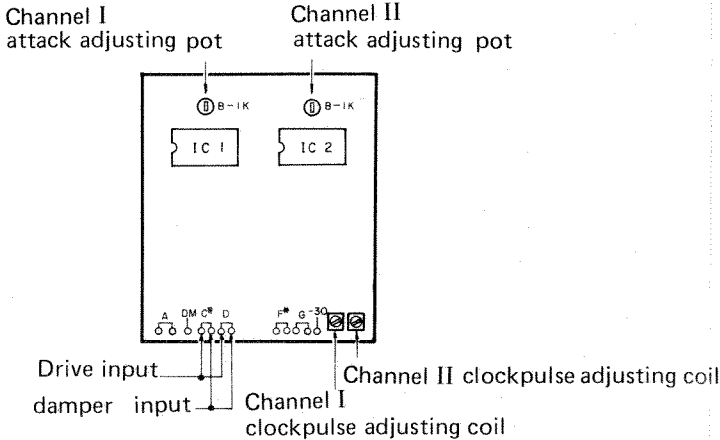
G7 Circuit Board & Wiring

NA80228



- 1. Transistor
Tr1 ~ 14 : 2SA844 (D, E)
Tr15 ~ 22: 2SC458 LG (C)
Tr23, 26 : 2SC752 (O), (Y)
Tr24, 27 : 2SC828 (P)
Tr25, 28 : 2SA495 (O), (Y)
- 2. IC
IC 1 : YM253
IC 2 : YM252
- 3. Diode
D1 ~ 44 : 1S1555
D45 : 10D1
- 4. Choke coil
250μH x 2

▼ Adjustment Locations



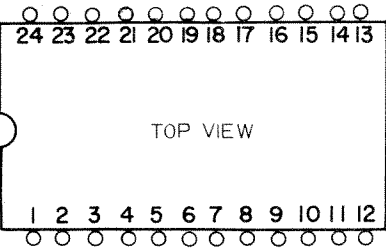
Attack adjusting pot is already adjusted before shipment, therefore do not touch it normally. However, if adjustment is heeded because of IC replacement, etc., procede as follows;

1. Remove wires from output terminals (AO1, SO1, AO2 and SO2). 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 wave-shape 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)
AO1		350 mV
SO1		950 mV
AO2		300 mV
SO2		950 mV

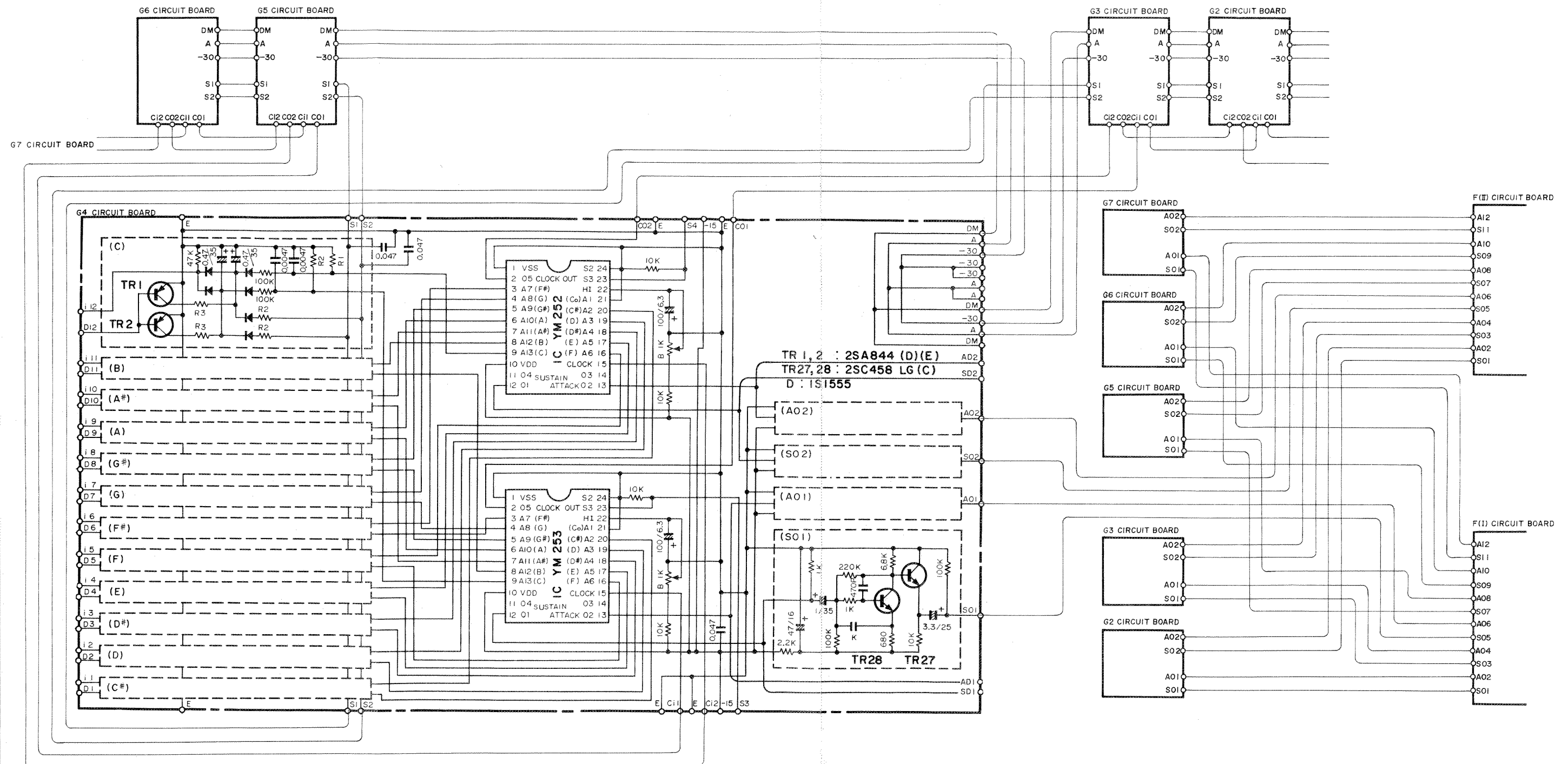
Terminal description YM253 and YM252



Termi- nal No.	Terminal name	Description
1	VSS	0V
2	05 CLOCK OUT	-4.0V Clock output terminal
3	A7 (F=)	(OFF) (ON) 0 → -1.5V → 0
4	A8 (G)	
5	A9 (G=)	0V KEY
6	A10(A)	0V
7	A11(A=)	0V
8	A12(B)	0V
9	A13(C)	0V
10	VDD	-15V
11	04	0V
12	01 SUSTAIN	YM253 YM252
13	02 ATTACK	Please recheck pattern
14	03	0V
15	CLOCK	-6.0V Clock input terminal
16	A6 (F)	KEY (OFF)(ON) 0 → -1.5V → 0
17	A5 (E)	
18	A4 (D=)	
19	A3 (D)	
20	A2 (C=)	
21	A1 (C)	0V
22	H1	0V
23	S3	0V
24	S2	0V

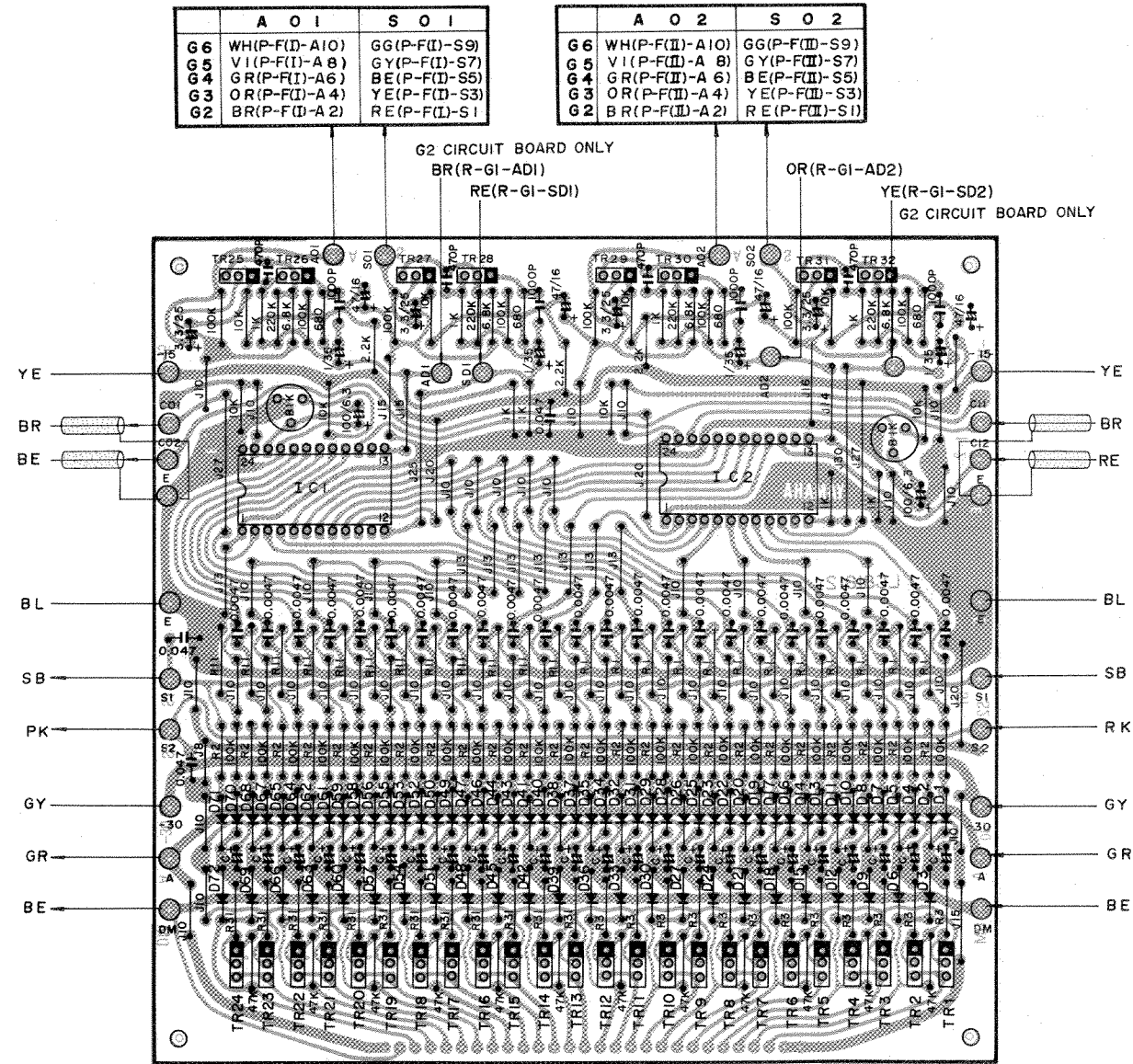
* Thus, G6 ~ G1 circuit boards are same except for note terminal voltage.

2. G2~G6 Circuit (C2#~C7)



G2~G6 Circuit Board & Wiring

NA80223~7

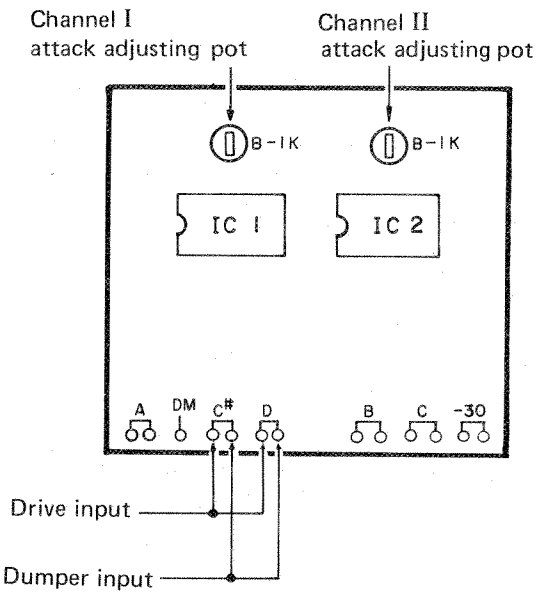


1. Transistor
Tr1 ~ 24 : 2SA844 (D) (E)
Tr25 ~ 32: 2SC458 LG (C)
2. IC
IC1 : YM253
IC2 : YM252
3. Diode
D1 ~ 72 : 1S1555
- 4.

G2 ~ G6

Circuit board	R 1	R 11	R 2	R 3	R 31
G 2	3.3M	3.3M	270K	47K	47K
G 3	2.2M	2.7M	220K	22K	33K
G 4	1.8M	2.2M	180K	15K	15K
G 5	1.2M	1.5M	150K	12K	12K
G 6	820K	1M	120K	10K	10K

▼ Adjustment Locations



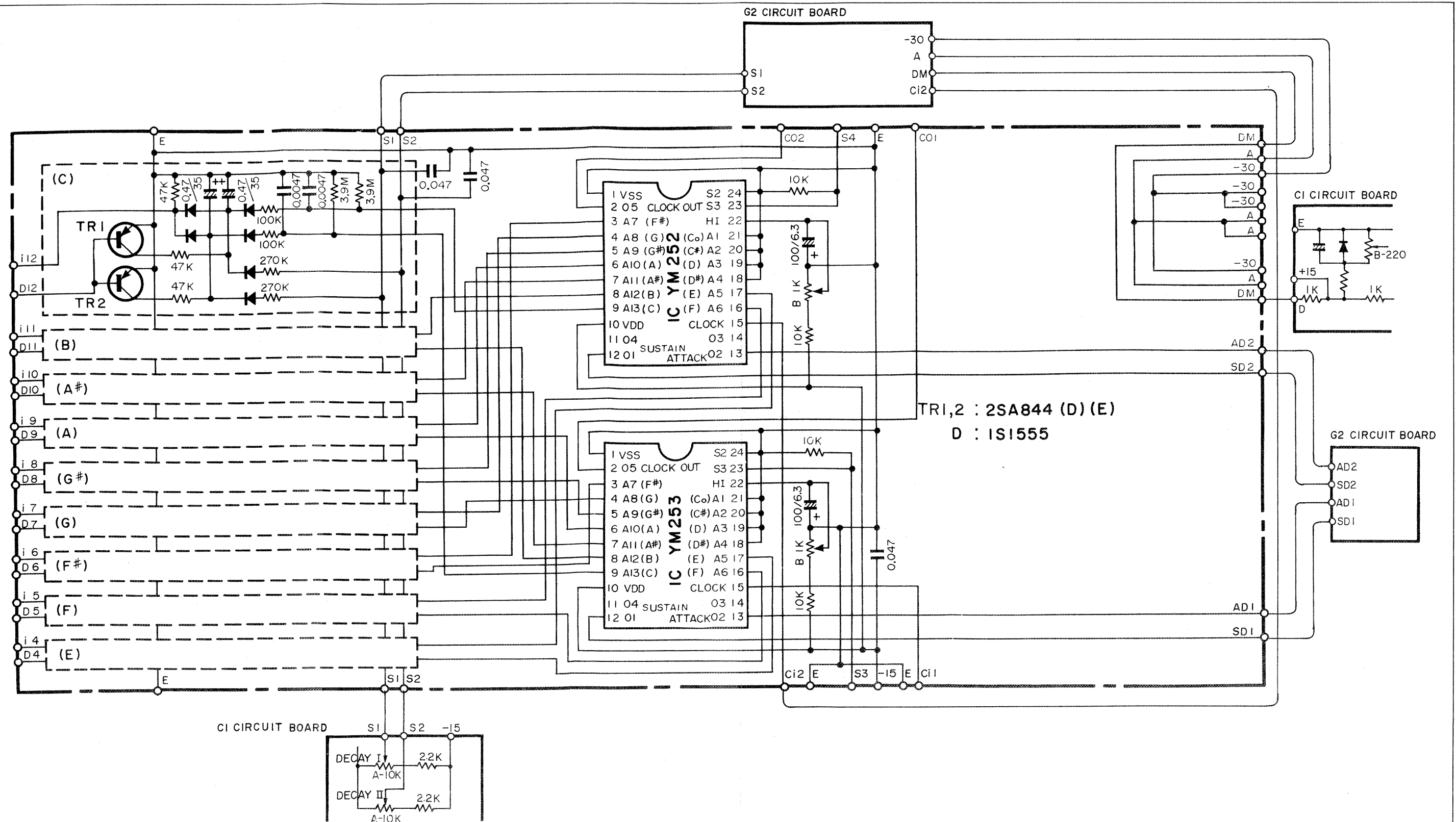
Attack adjusting pot is already adjusted before shipment, therefore do not touch it normally. However, if adjustment is needed because of IC replacement, etc., procede as follows;

1. Remove wires from output terminals (AO1, SO1, AO2 and SO2). 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 wave-shape 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)
AO1		350 mV
SO1		1100 mV
AO2		300 mV
SO2		1100 mV

3. G1 Circuit (E1 ~ C2)



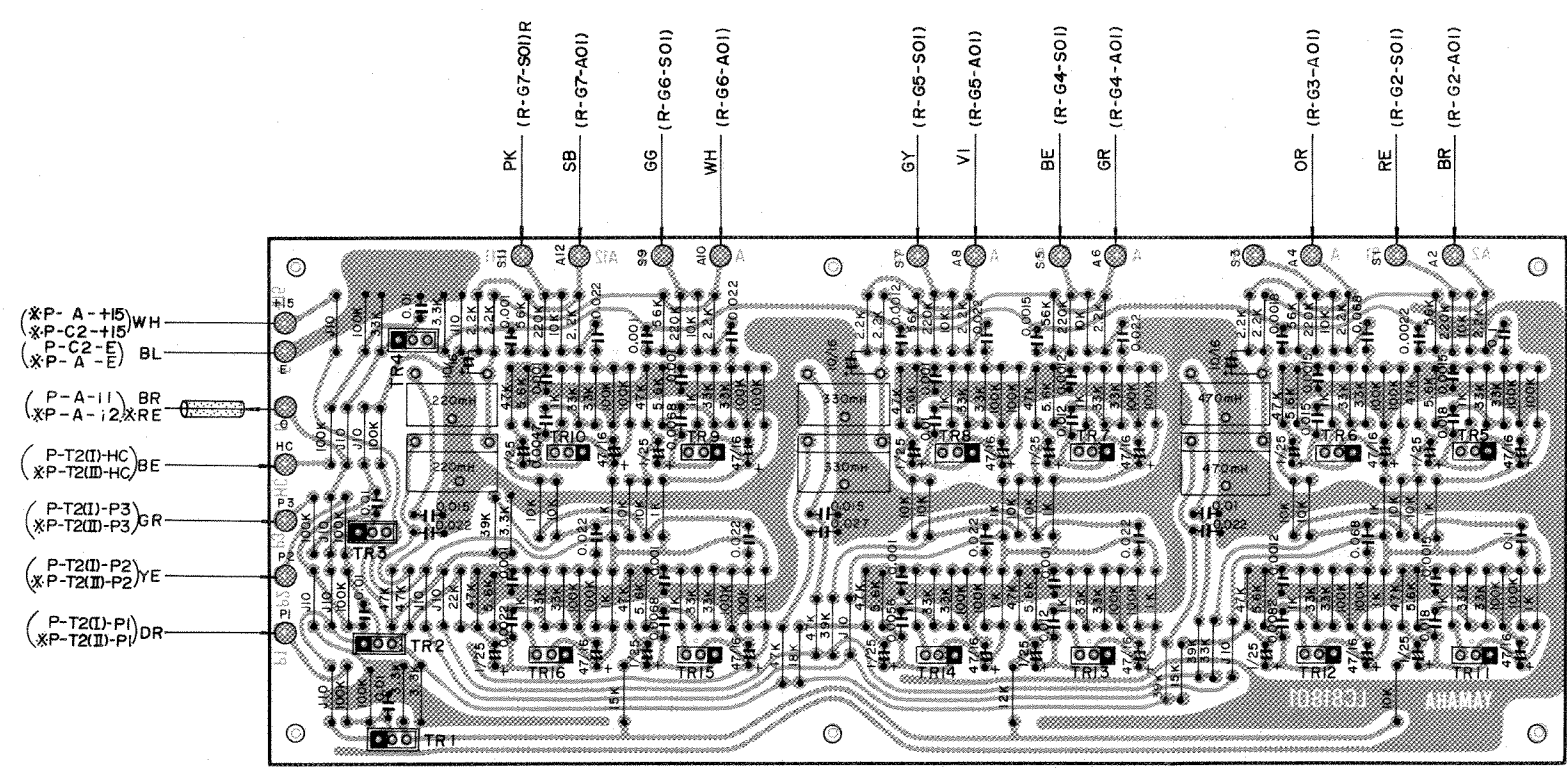


F

F Circuit Board & Wiring

NA80230

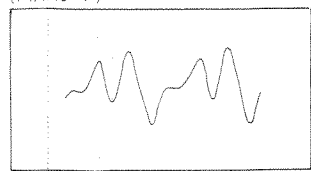
1. Transistor
Tr 1 ~ 4 : FET 2SK30A(Y)
Tr 5 ~ 16 : 2SC458LG(O)
2. Filter coil
200mH × 2
330mH × 2
470mH × 2



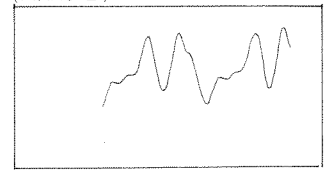
(Each sound tone waveform)
at depressing F4 key : OUTPUT (0 terminal)

Channel I

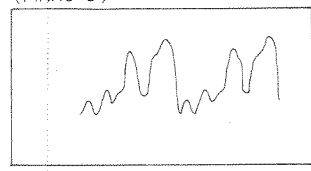
(PIANO 1)



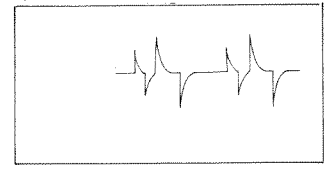
(PIANO 2)



(PIANO 3)

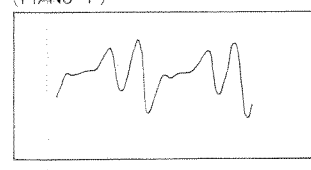


(HARPSICHORD)

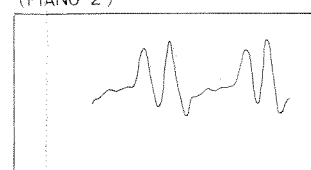


Channel II

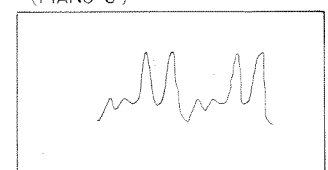
(PIANO 1)



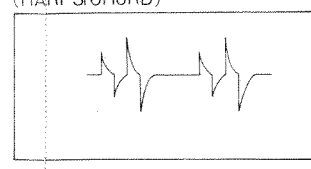
(PIANO 2)



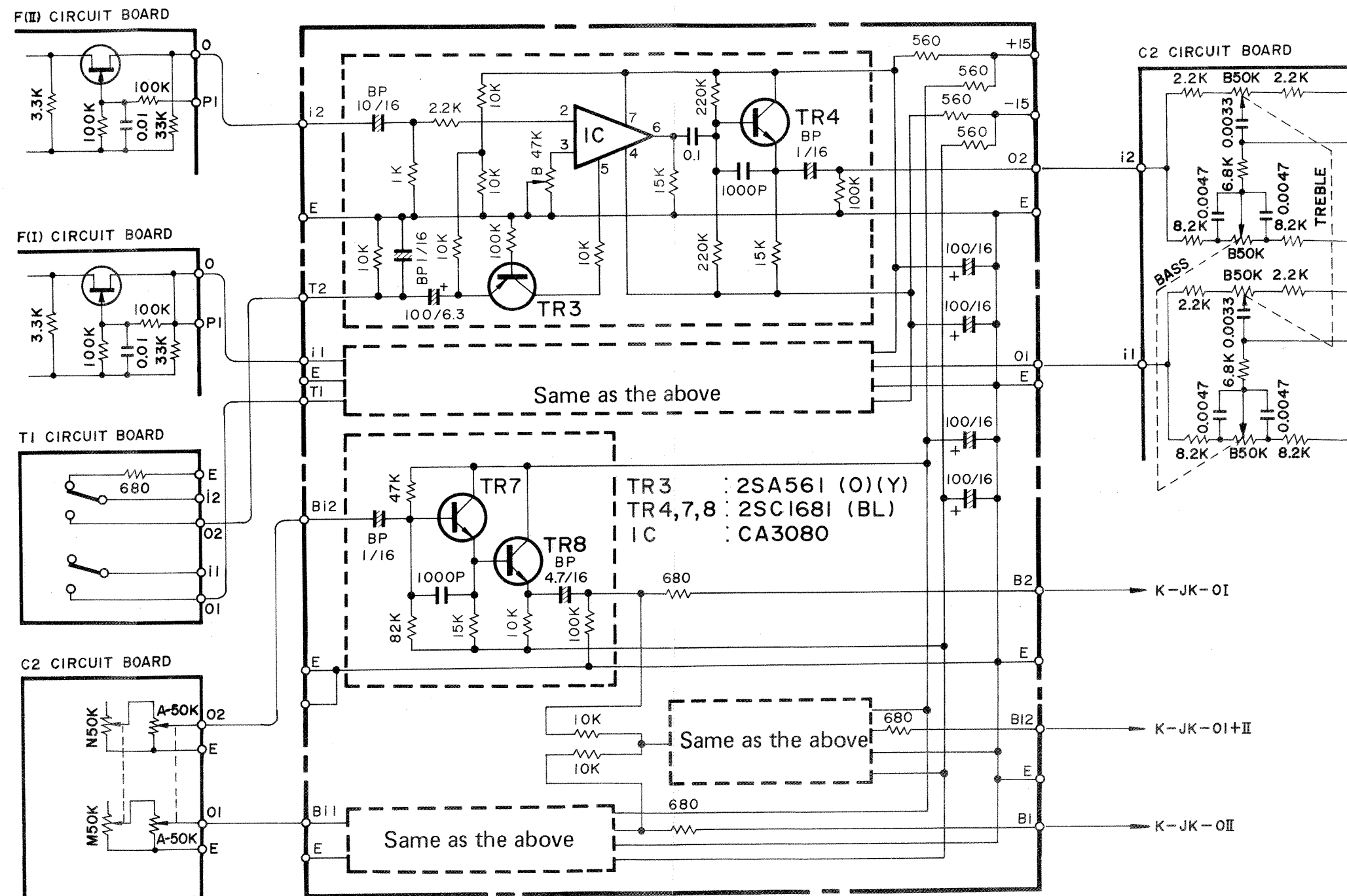
(PIANO 3)



(HARPSICHORD)

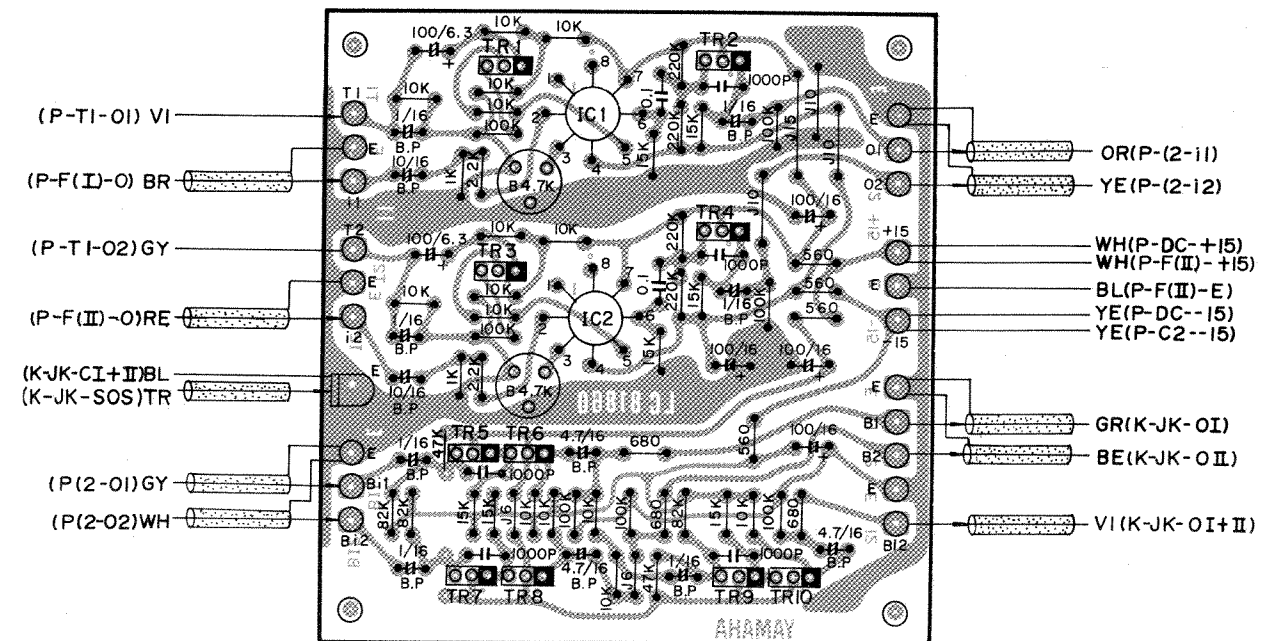


8. A Circuit

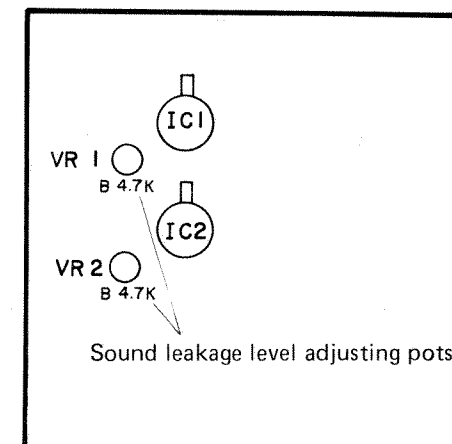


A Circuit Board & Wiring

NA80214



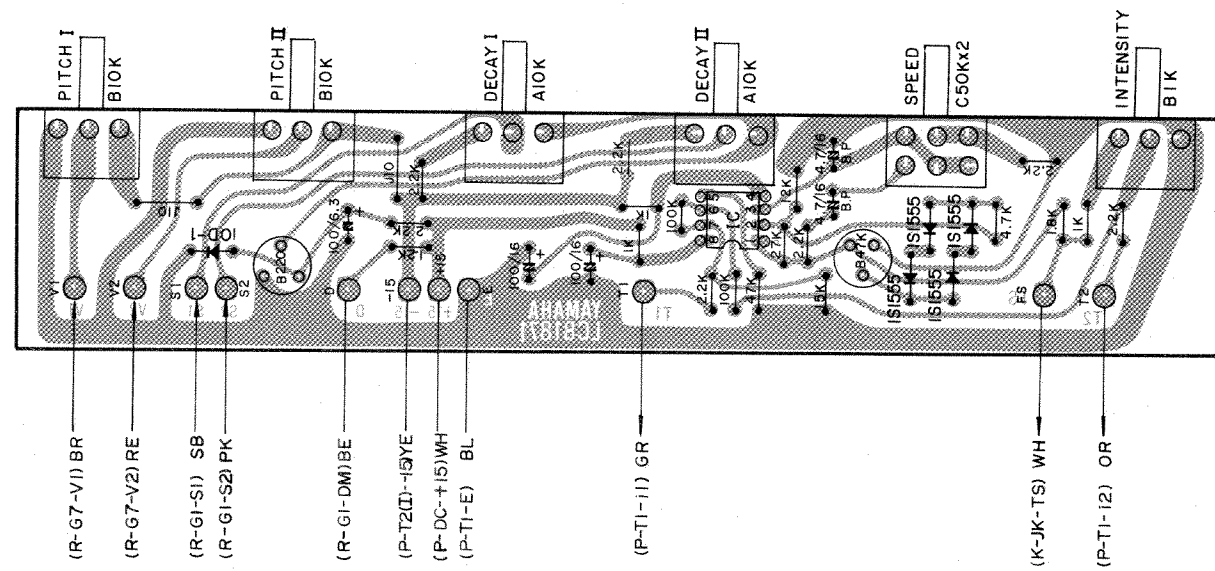
1. Transistor
 Tr1,3 : 2SA561 (O) (Y)
 Tr2, 4, 5, 6: 2SC1681 (BL)
2. IC
 IC1, 2 : CA3080

▼ Adjustment Locations**A**



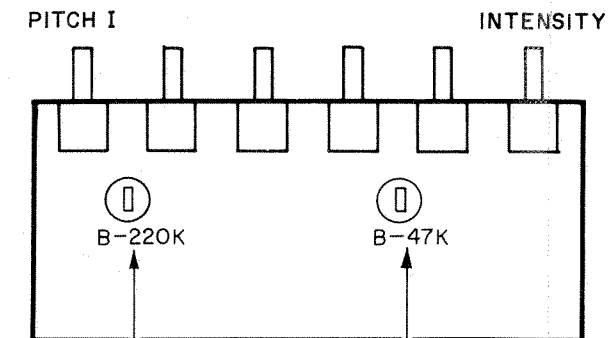
C1 Circuit Board & Wiring

NA80215



1. IC
RC 4558
2. Electrolytic capacitors 100/6.3, 100/16x2 are firmly attached.

1. Variation range of PITCH 1, 2 is approx. 437 – 453 Hz.
2. Variation range of TREMOLO SPEED is approx. 0.5 – 11 Hz.
3. Modulation degree of TREMOLO INTENSITY is approx. 70% at maximum.



Adjustment is made such that, when pots of DECAY I, II are set at minimum, +0.1V will be present at S1 and S2 terminals and when they are set at maximum, -11V will be present.

Oscillation voltage adjusting pot

CI

10. C2 Circuit

