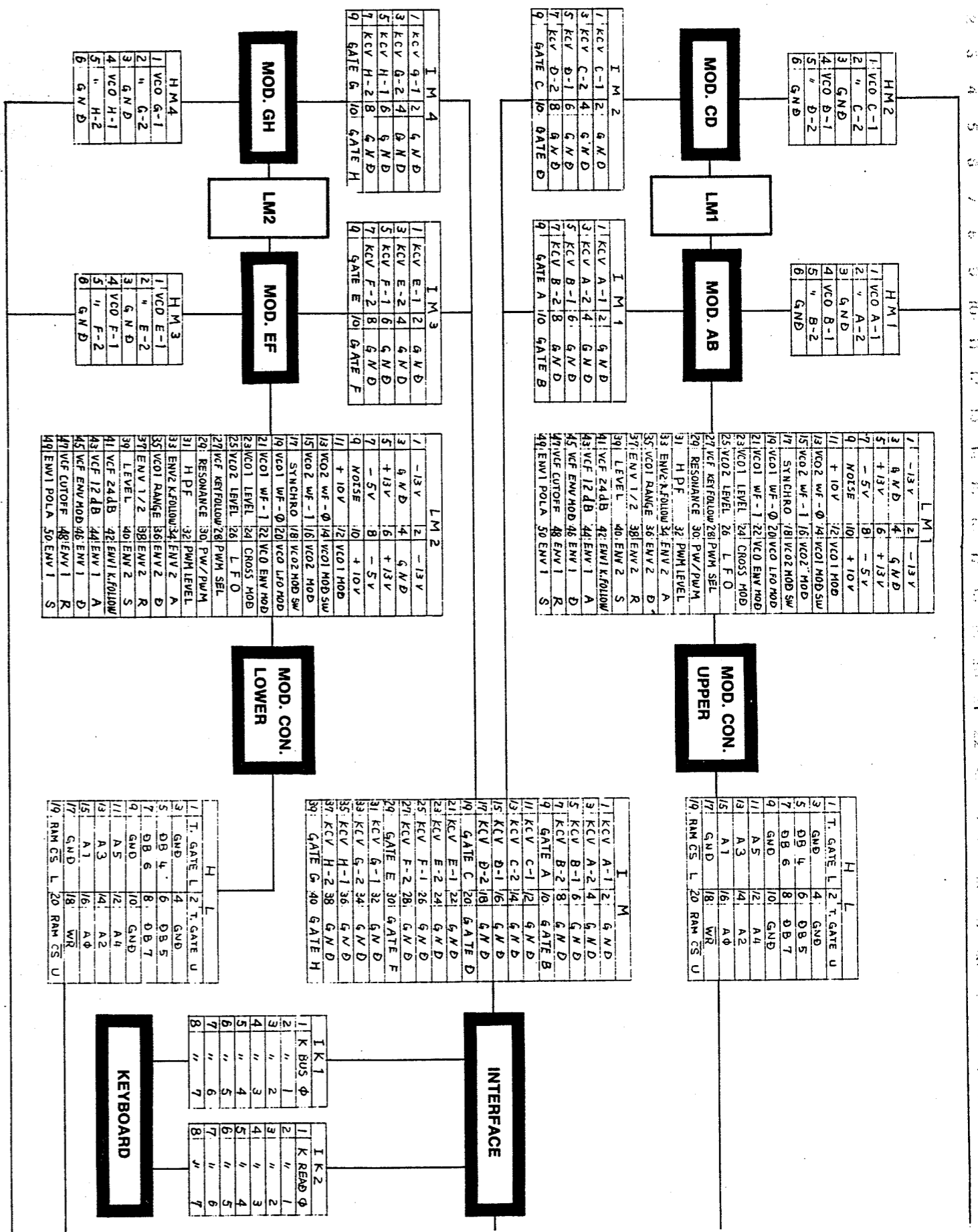


A B C D E F G H I J K L M N O P Q R S T U V



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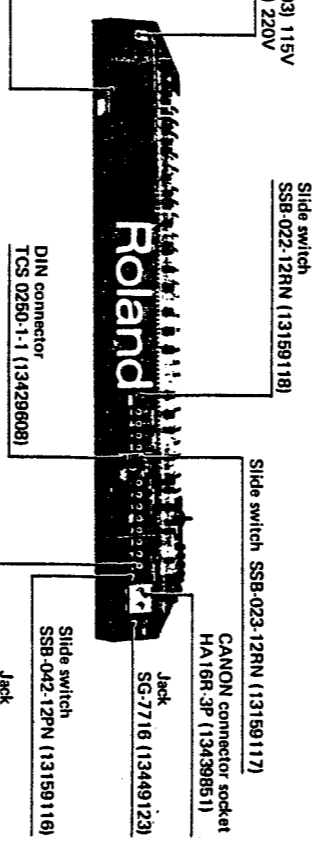
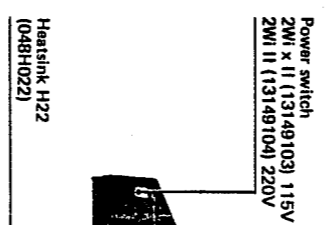
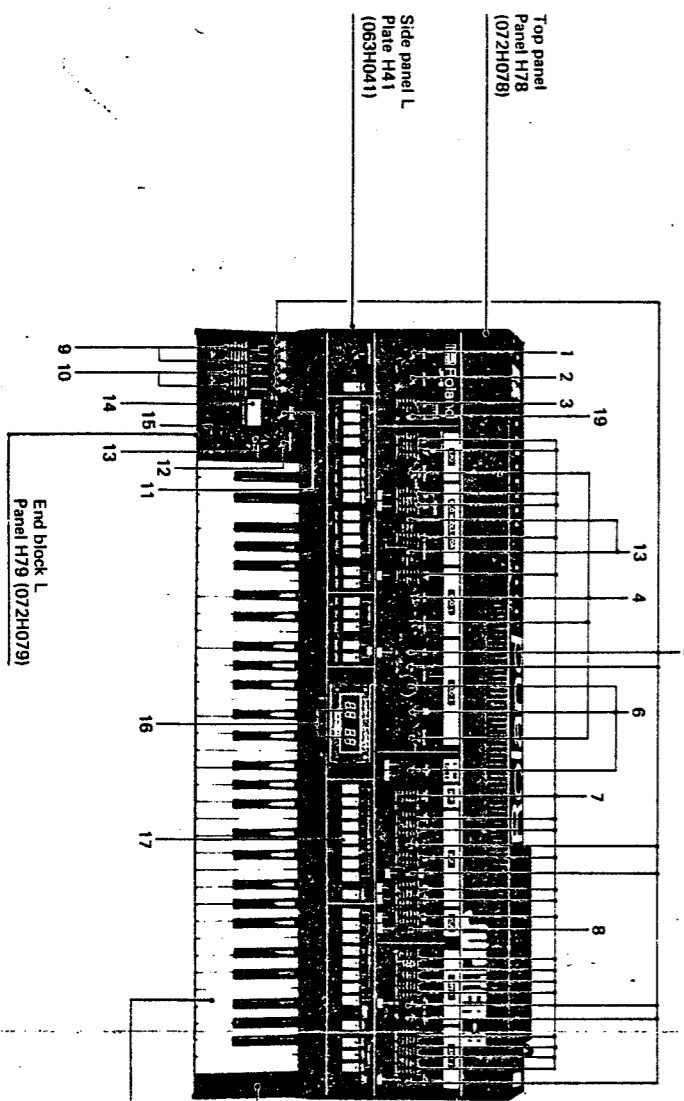
# JP-8 SERVICE NOTES

First Edition

## SPECIFICATIONS

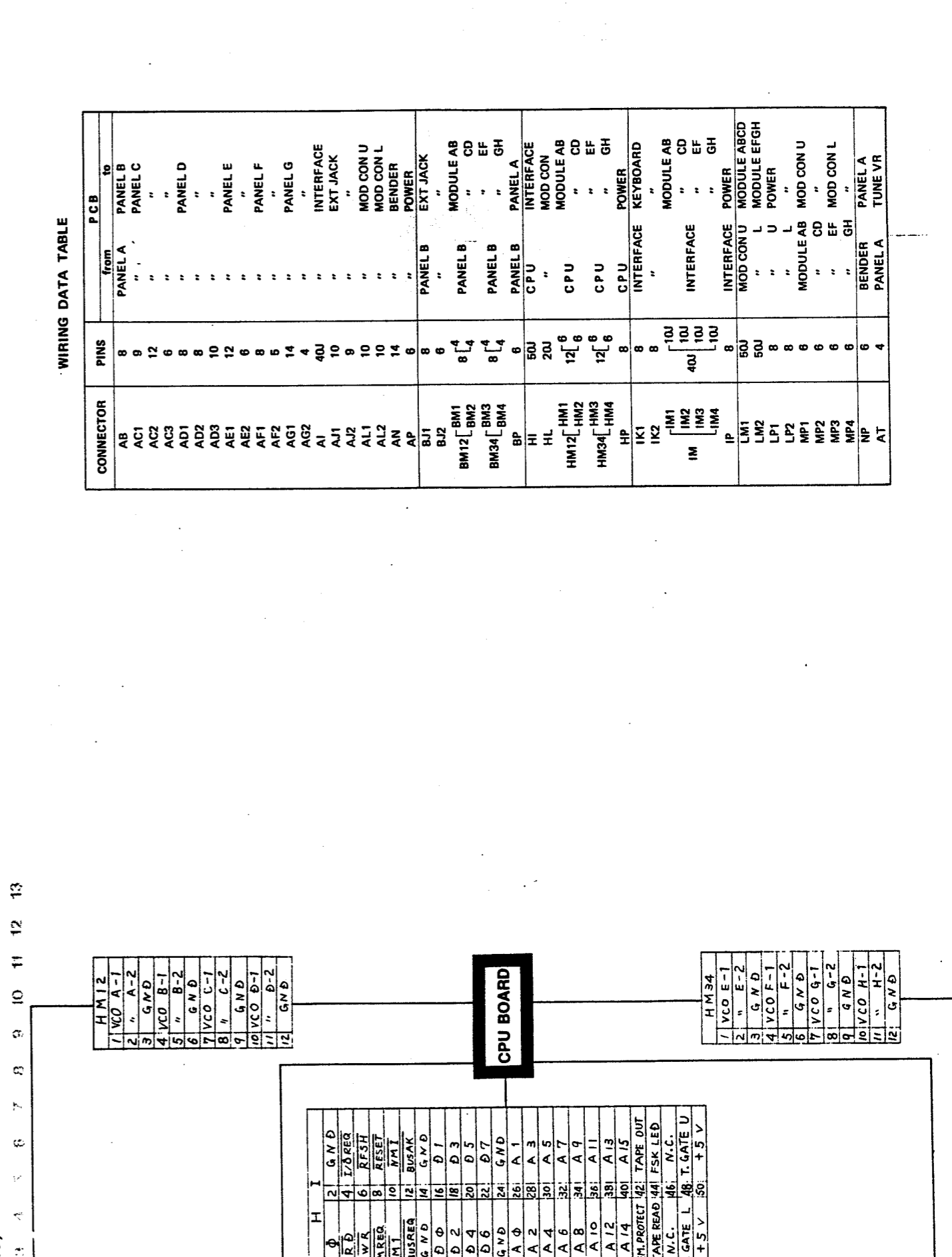
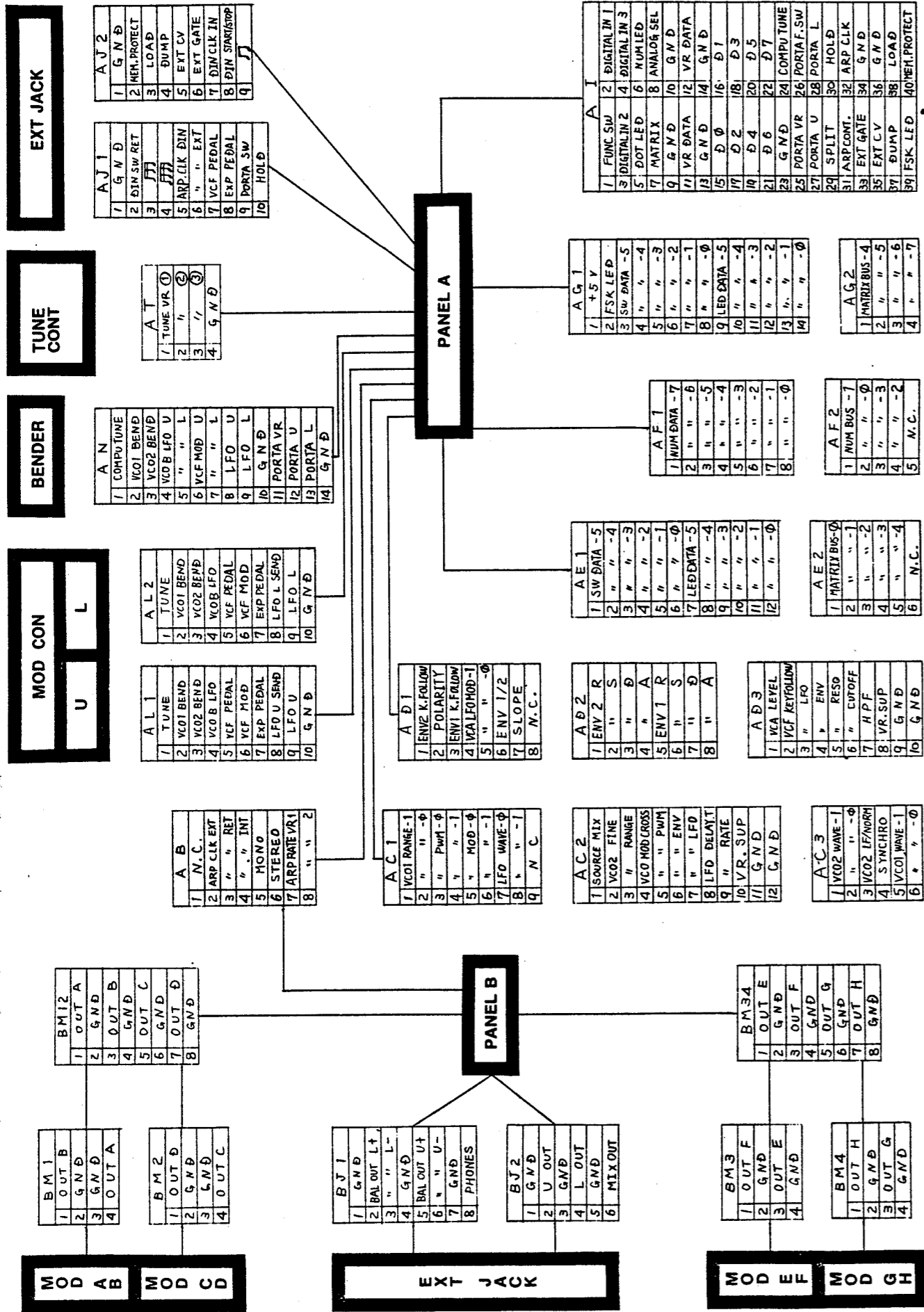
- Keyboard: 61 Note, 5 Octaves
- VCO: Arpeggio Rate: 1 - 20Hz
- VCO 2 Fine Tune Range: ±50 Cents
- VCF: Audio Outputs Upper: 0dBm, 600 Ohm, Balanced Lower: 0dBm/-20dBm, 1k Ohm, Unbalanced
- Key Follow: 12/Octave, 24/Octave
- ENV: Highest Note Output: 0 - 5V
- ENV 1, 2: CV: OFF - 0V, On - +15V
- Attack Time: 1ms - 5s
- Decay Time: 1ms - 10s
- Sustain Level: 0 - 100%
- Release Time: 1ms - 10s
- LFO: Dimensions: 1083(W) x 485(D) x 120(H)mm
- Rate: 0.05 - 40Hz
- Delay Time: 0 - 4s
- Master Tunable Range: ±50%
- Power Consumption: 22kg, 90W

Although Roland has employed new parts coding, 8-10 digit, old numbers are still valid for some parts. In shortening, No. should be used for abridged 6 digit code only and H for 6 with H.

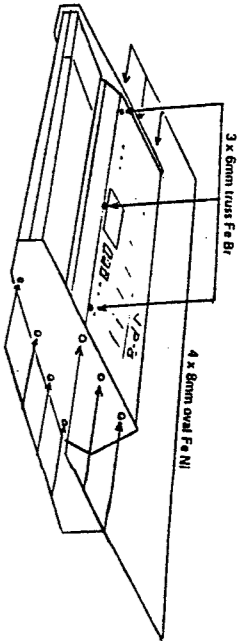


### JP-8 PANEL PARTS LIST

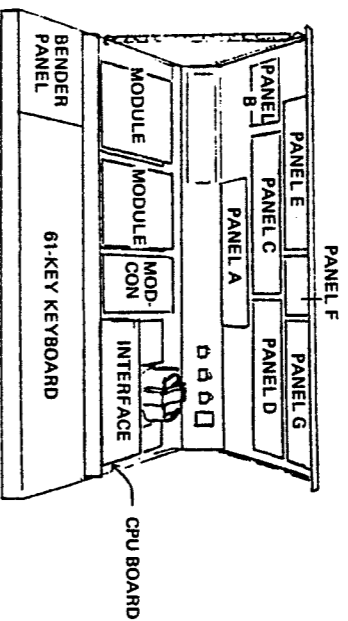
1	Pot.	GM70R-K20B54 (50KB x 2) (13219812)
2	Pot.	GM70R-K20AC54 (50KA, C) (13219811)
3	Pot.	LFE9R-C16A55 (500KA) (1339414)
4	Switch	SRM1034-K15 (13119301)
5	Switch	SLE622-18PS (13139137)
6	Pot.	VM10R-K20B14 (10KB) (13219225)
7	Pot.	LFE9R-C16B14 (10KB) (13339415)
8	Switch	SOPR-24-12P (13159503)
9	Pot.	LFE9R-C16B54 (50KB) (13339413)
10	Pot.	MFE9R-C16B54 (50KB x 2) (13359302)
11	Pot.	VM10R-K20A55 (500KA) (13219231)
12	Pot.	VM10R-K20C54 (50KC) (13219243)
13	Switch	SLE623-18P (13139135)
14	Switch w/key top	KEH10003 (13129717)
15	Bender asy	PB-4 (029-022)
16	Cover LED	H80 (065H080)
17	Switch	KN526RA (15029404)
18	Pot.	VM10A-K15B54 (50KB CT) (13229131)
19	Switch	SLE622-18P (13139136)
		All rotary knobs No.68 (016-078)
		All slider knobs H4 (016H004)



**DISASSEMBLY**  
Remove screws ①, ② and ③.

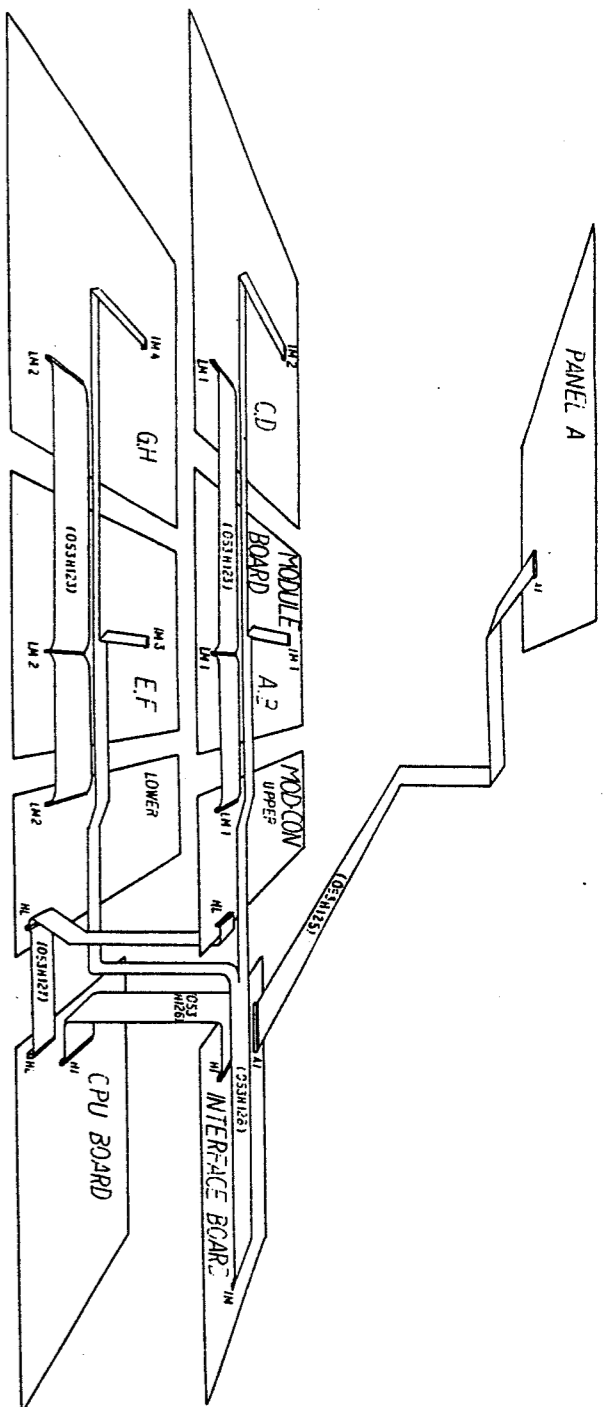


**NOTE:**  
Preparation of a stay and a prop is recommended for a stable top panel rest.

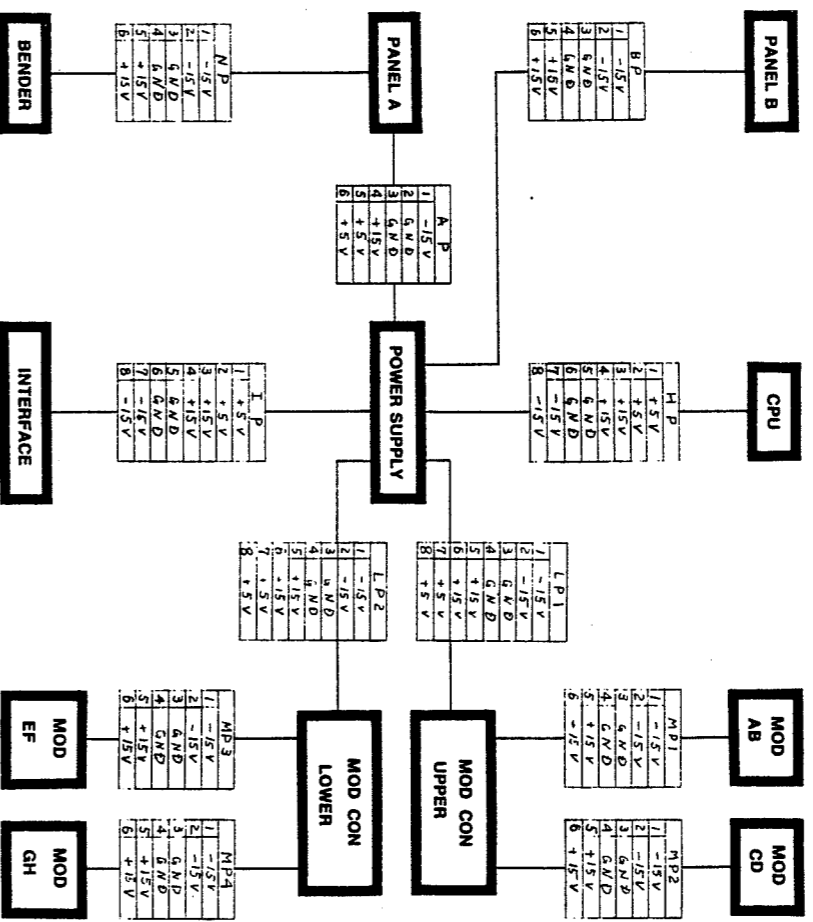


**PRECAUTIONS**

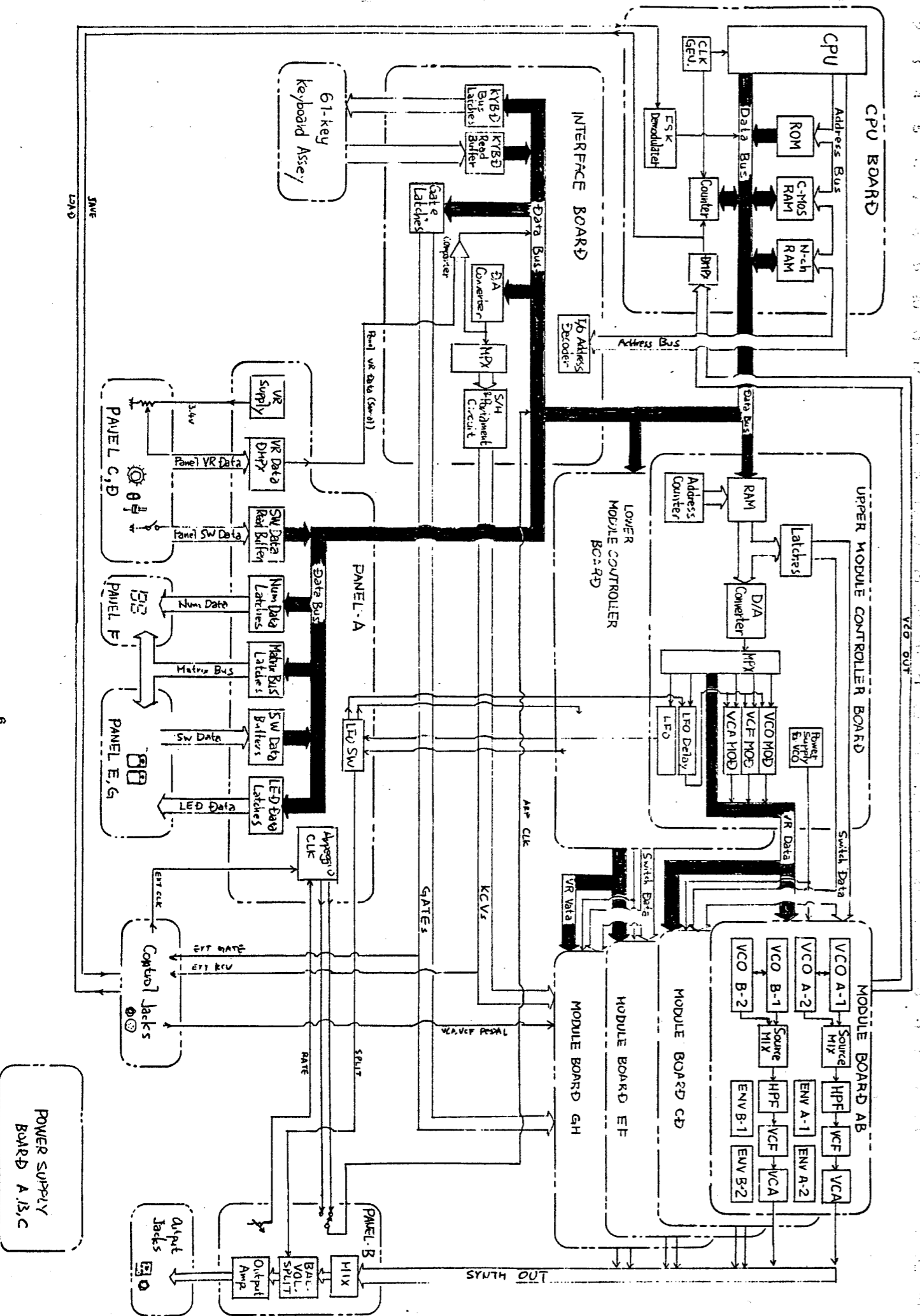
1. Do not pinch flat cables in the pcbs when closing panel assemblies. Prongs on PCBs will pierce humped cable, causing circuits to malfunction. Stretch rolling cable out.
2. Do not expose your workbench directly to fans, heaters, air-conditioners, etc. especially after disassembling, PCBs are temperature-sensitive.



**JP-8**  
**JP-8 FUNCTIONAL DIAGRAM**

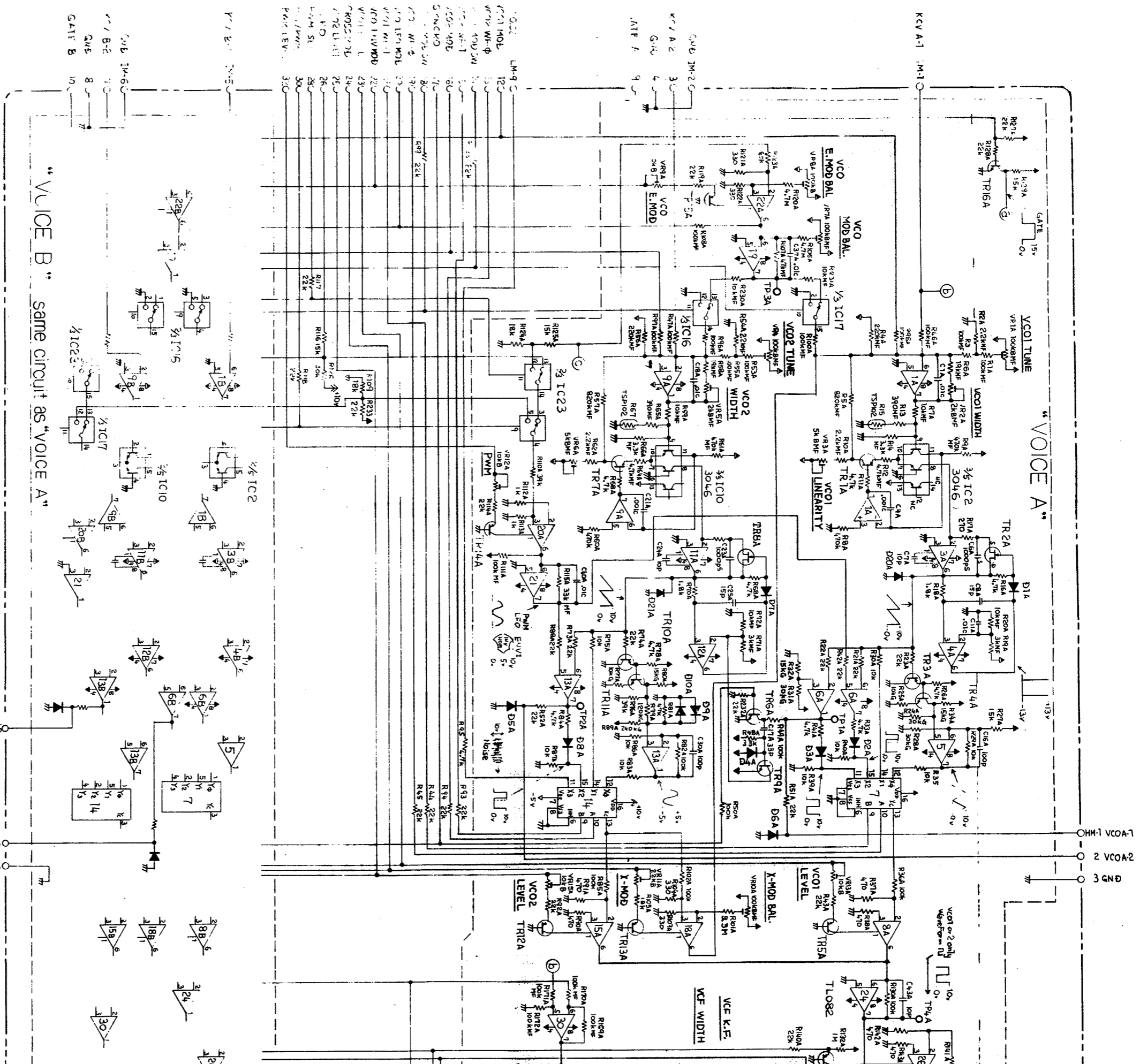


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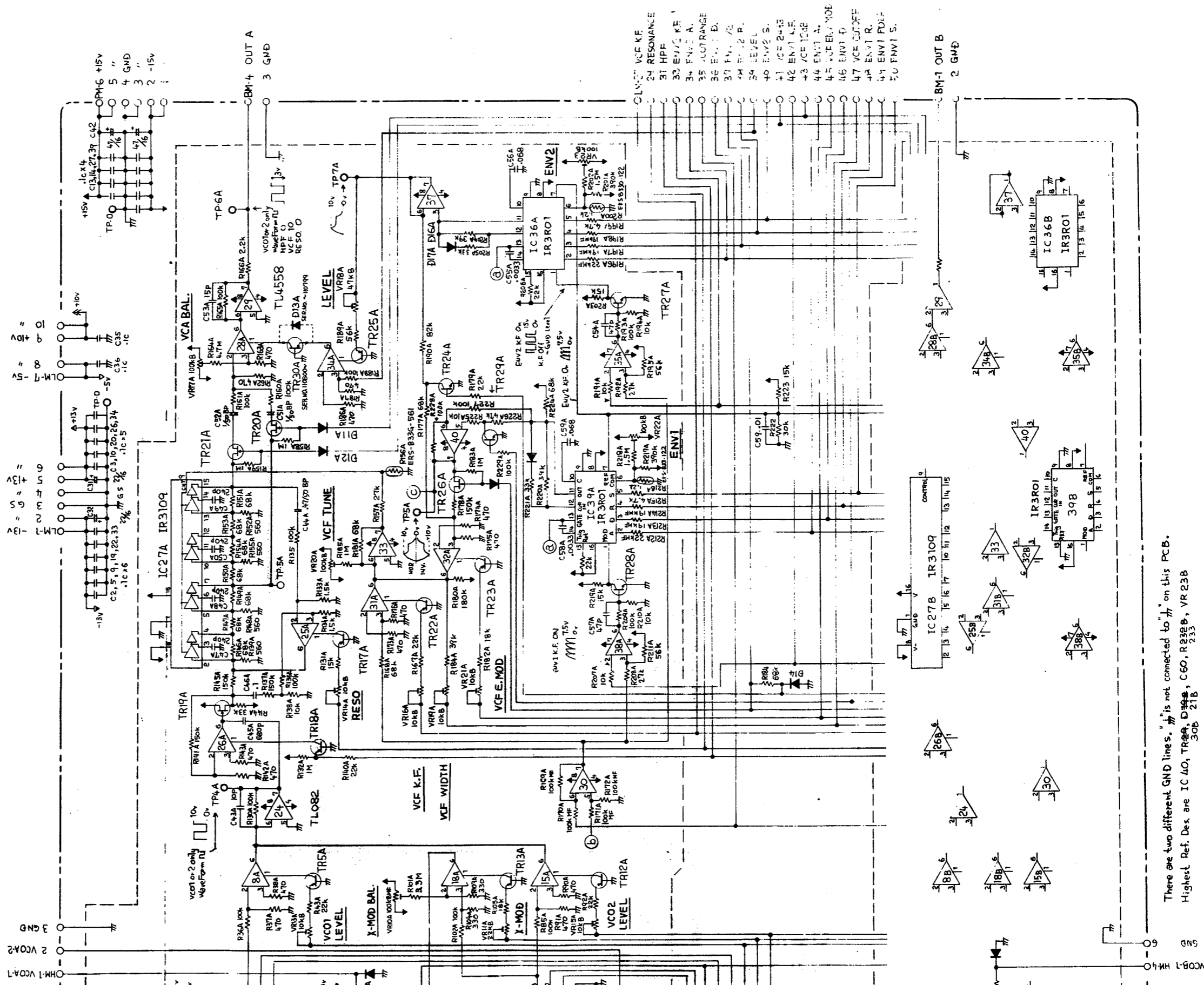
- IC 1A, 1E, 5, 9A, 7B, 19, 21, 30, 33, 37, 40 : 4558  
 IC 2, 10 : RC3046  
 IC 3A, 3E, 4A, 4B, 11A, 11B, 12A, 12B, 35A, 35B, 38A, 38B : TLO80  
 IC 6A, 6B, 13A, 13B, 24 : TLO82  
 IC 7, 14 : 4052  
 IC 8A, 8B, 15, 15B, 18A, 18B, 20, 20B, 22A, 22B, 25A, 25B, 26A, 26B, 28A, 28B, 31A, 31B, 32A, 32B, 34A, 34B : BA662  
 IC 16, 17, 23 : 4053  
 IC 27A, 27B : IR3109  
 IC 29 : TL4552 or NJM4559DC  
 IC 35A, 36B, 37A, 39E : TR301

- All PNP TR : 2SA1015-GR  
 TR 4A, 4B, 9A, 9B, 11A, 11B : 2SC175-Y  
 Other NPN TR : 2SC1815-GR  
 TR 2A, 2B, 8A, 8B : NEF10  
 Other FET : 2SK30A-GR  
 All Diode : 1S2473

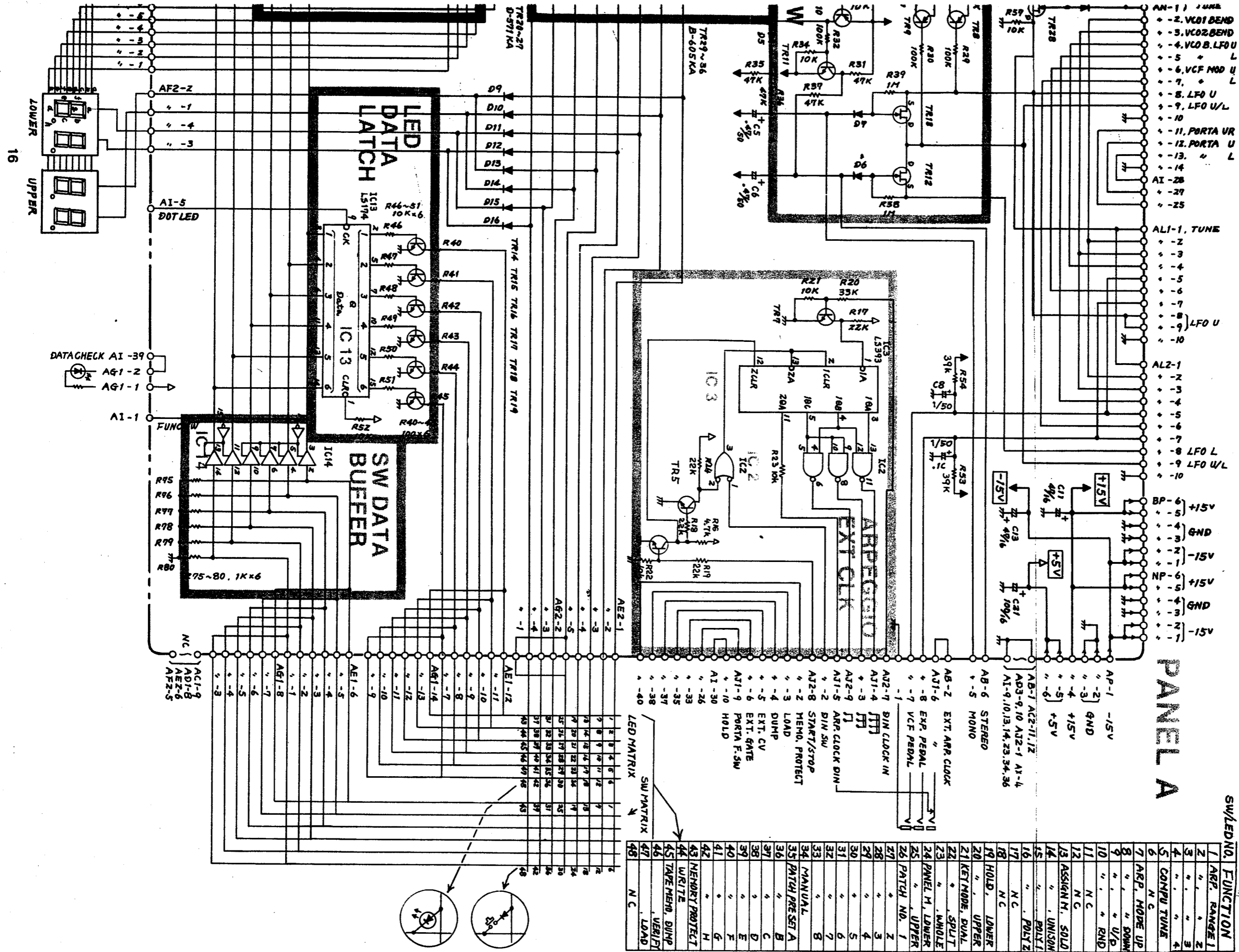
"VOICE B" same circuit as "VOICE A"

There are two different GND lines. Highest Ref. Dec are IC 40, TR 4A, TR 4B

MODULE BOARD CIRCUIT DIAGRAM

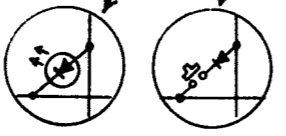


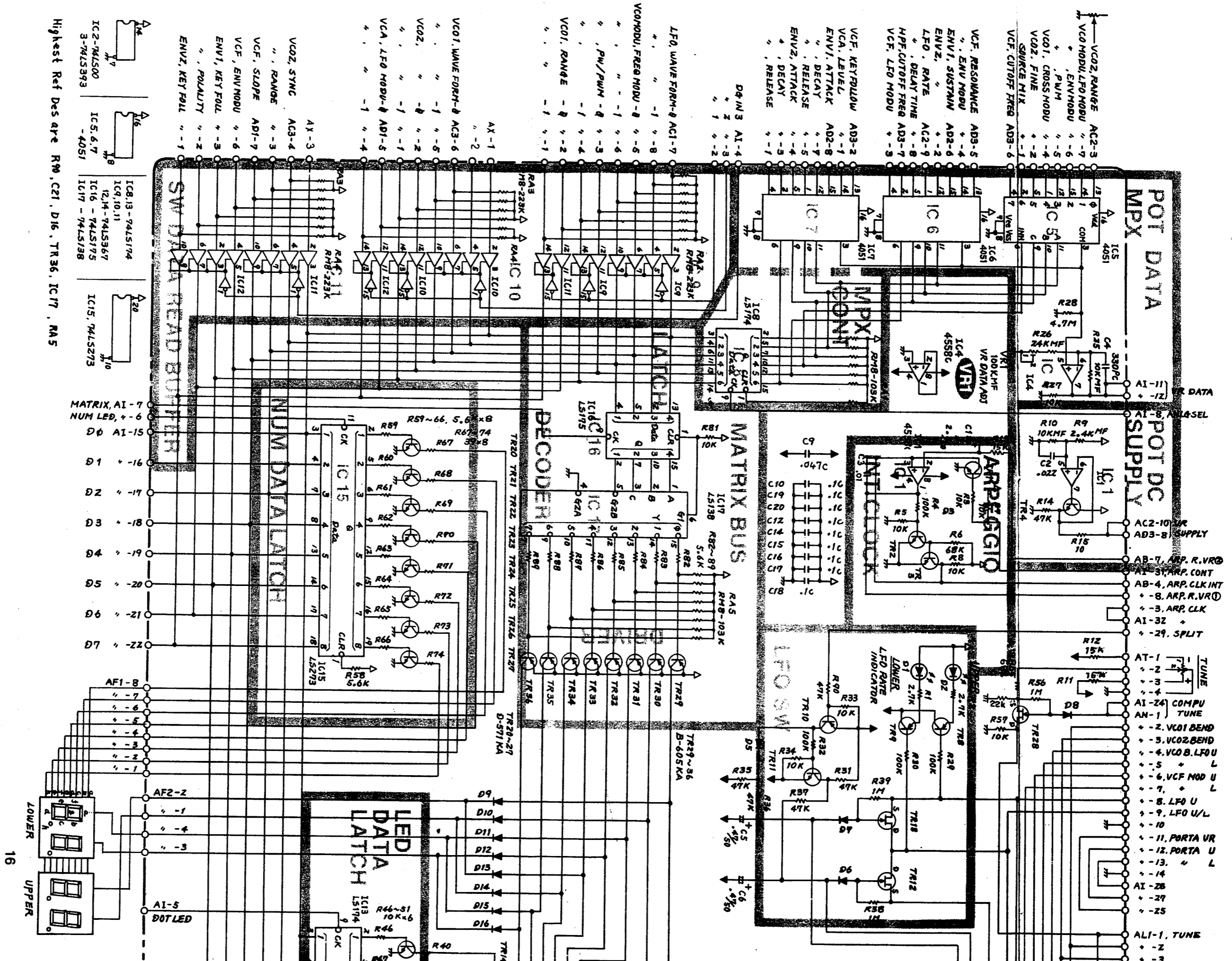
There are two different GND lines.  $\text{---}$  is not connected to  $\text{---}$  on this PCB.  
 Highest Ref. Des. are IC 40, TR 29A, D 34B, C 60, R 232B, VR 23B  
 30B 21B



# PANEL A

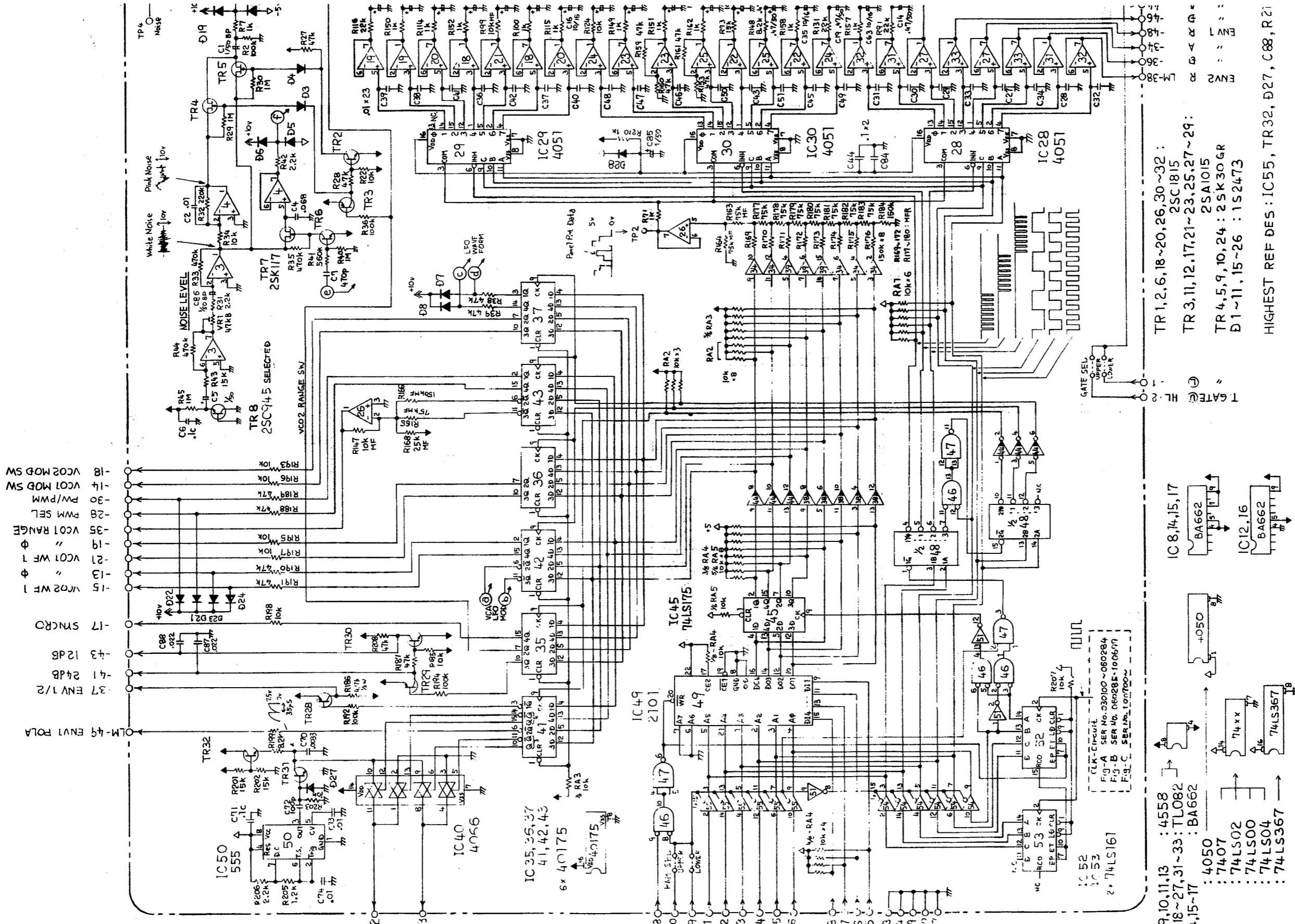
SW/LED NO.	FUNCTION
1	ARP. RANGE 1
2	" " " 2
3	" " " 3
4	COMPU TUNE
5	N.C.
6	ARP. MODE UP
7	" " " DOWN
8	" " " U/P
9	" " " RND
10	N.C.
11	N.C.
12	N.C.
13	ASSIGNM. SOLD
14	" " UNISON
15	" " POLY 1
16	" " POLY 2
17	N.C.
18	N.C.
19	HOLD. LOWER
20	" " UPPER
21	KEYMODE. DUAL
22	" " SPLIT
23	" " WHOLE
24	PANEL H. LOWER
25	PANEL H. UPPER
26	PATCH NO. 1
27	" " 2
28	" " 3
29	" " 4
30	" " 5
31	" " 6
32	" " 7
33	" " 8
34	MANUAL
35	PATCH PRESET A
36	" " B
37	" " C
38	" " D
39	" " E
40	" " F
41	" " G
42	MEMORY PROTECT
43	WRITE
44	TAPEMEMO. DUMP
45	VERIFY
46	LOAD
47	N.C.
48	N.C.





Highest Ref Des are R90, C21, D16, TR36, IC17, RAS

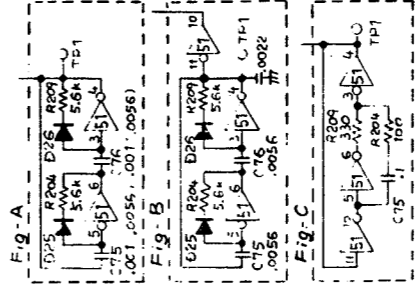




- 18 VCO2 MOD SW
- 14 VCO1 MOD SW
- 30 PWP/PWM
- 28 PWM SEL
- 35 VCO1 RANGE
- 19 " "
- 21 VCO1 WF 1
- 13 " "
- 15 VCO2 WF 1
- 17 SYNCRO
- 43 12DB
- 41 24DB
- 37 ENV 1/2
- LM-49 ENV1 POLA

- TR1,2,6,18~20,26,30~32 : 2SC1815
- TR3,11,12,17,21~23,25,27~29 : 2SA1015
- TR4,5,9,10,24 : 2SK306R
- D1~11,15~26 : 1S2473

HIGHEST REF DES : IC55, TR32, D27, C88, R21



- IC1,2,6,9,10,11,13 : 4558
- IC3,4,7,18~27,31~33 : TL082
- IC8,12,14,15~17 : BA662
- IC34,39 : 4050
- IC38,44 : 7407
- IC46 : 74LS02
- IC47 : 74LS00
- IC51 : 74LS04
- IC54,55 : 74LS367
- IC8,14,15,17 : BA662
- IC12,16 : BA662



