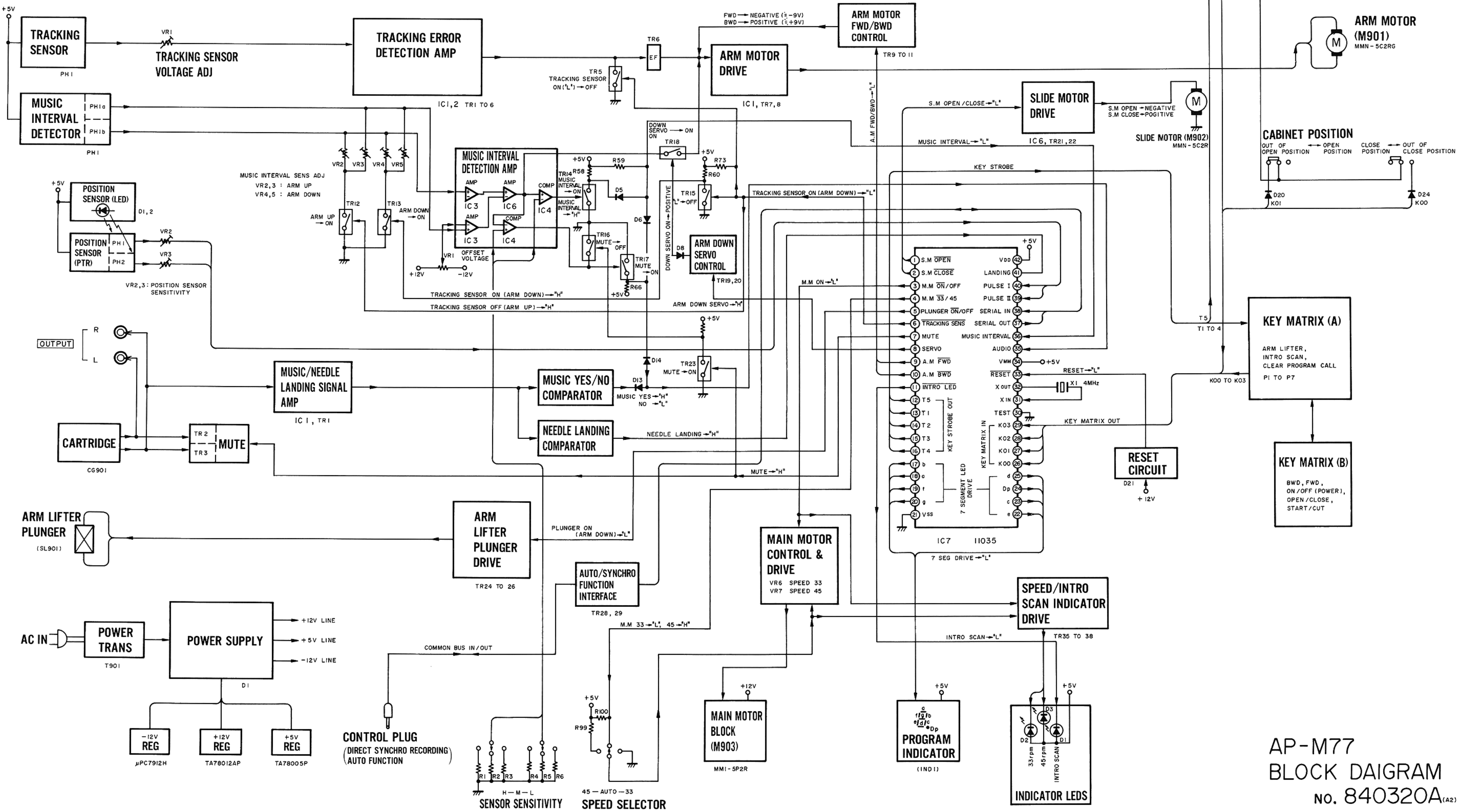

AKAI

MODEL AP-M77

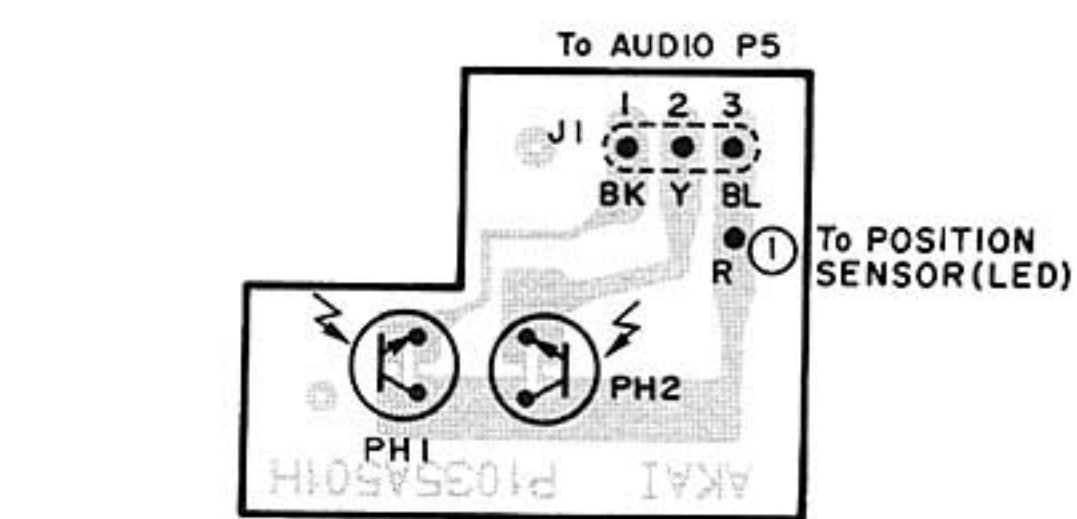
**P.C BOARDS
SCHEMATIC DIAGRAM**

MEMO

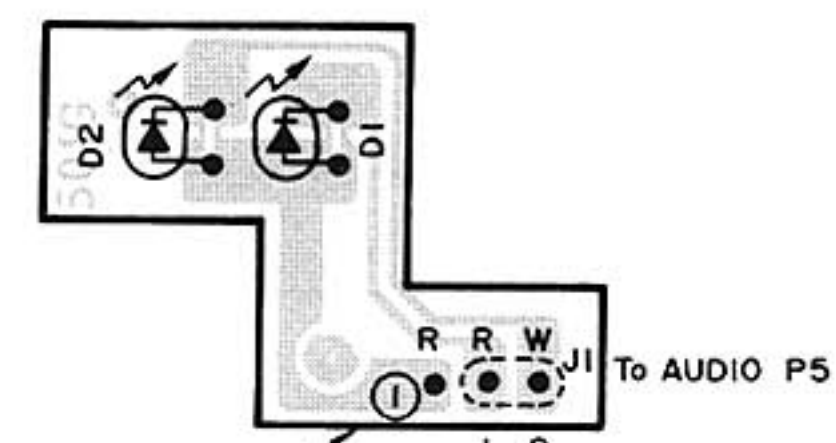
AP-M77



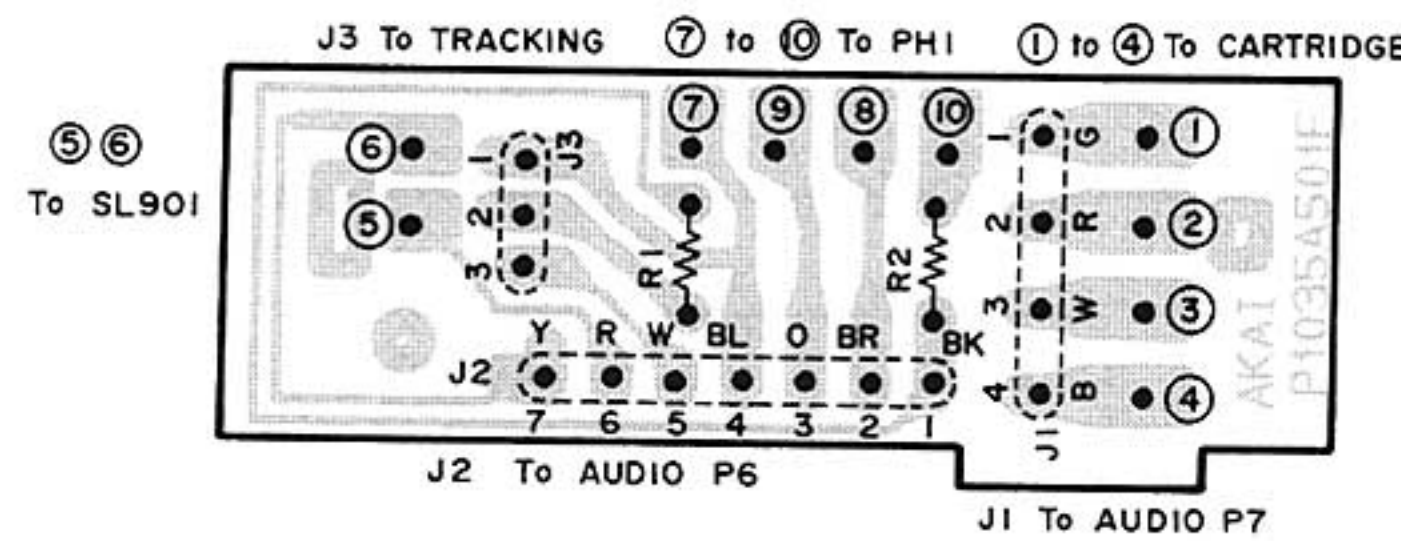
AP-M77
 BLOCK DAIGRAM
 No. 840320A(A2)



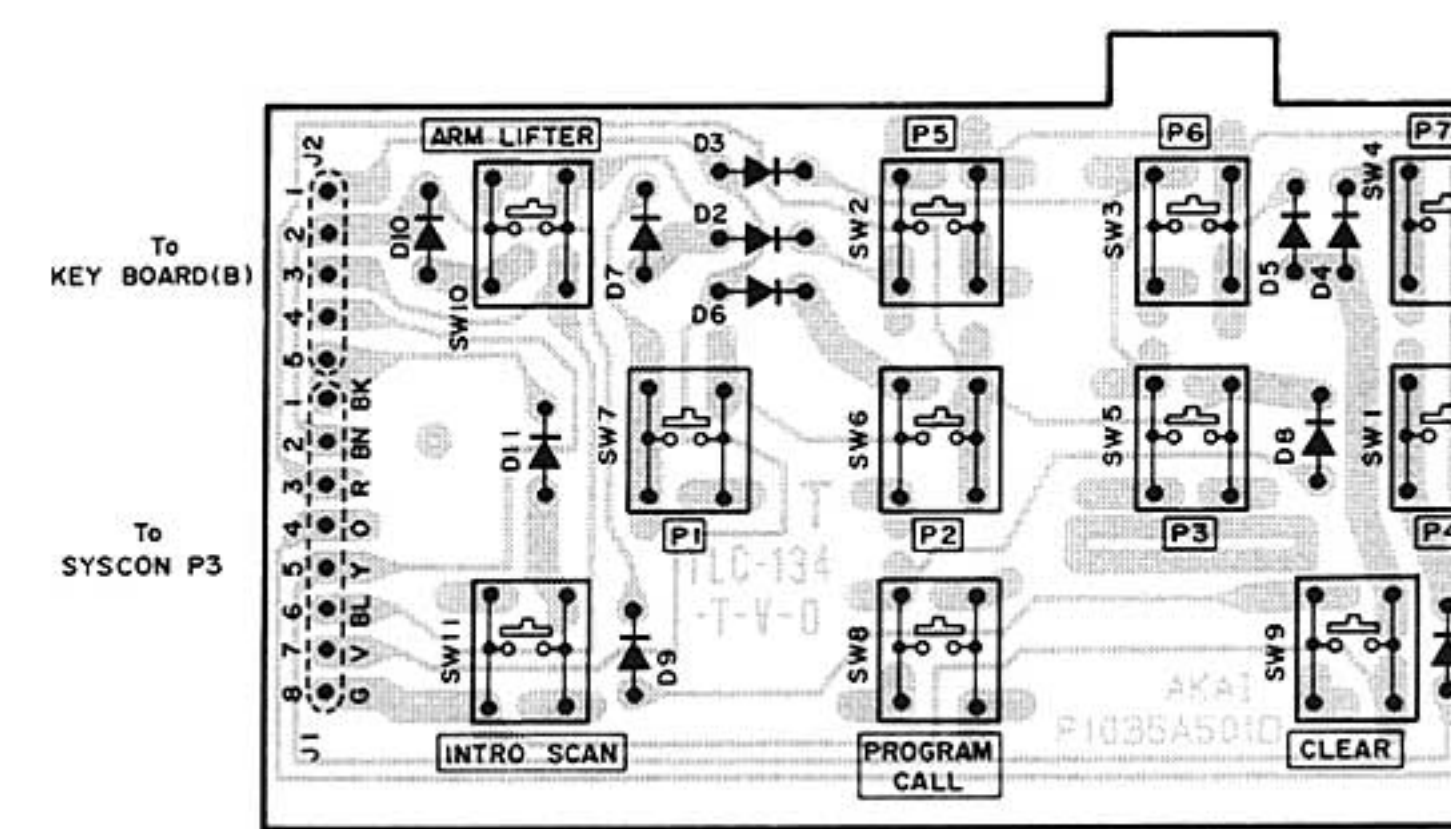
ポジションセンサー (PTR) 基板
POSITION SENSOR (PTR) PCB
PIO35A501H



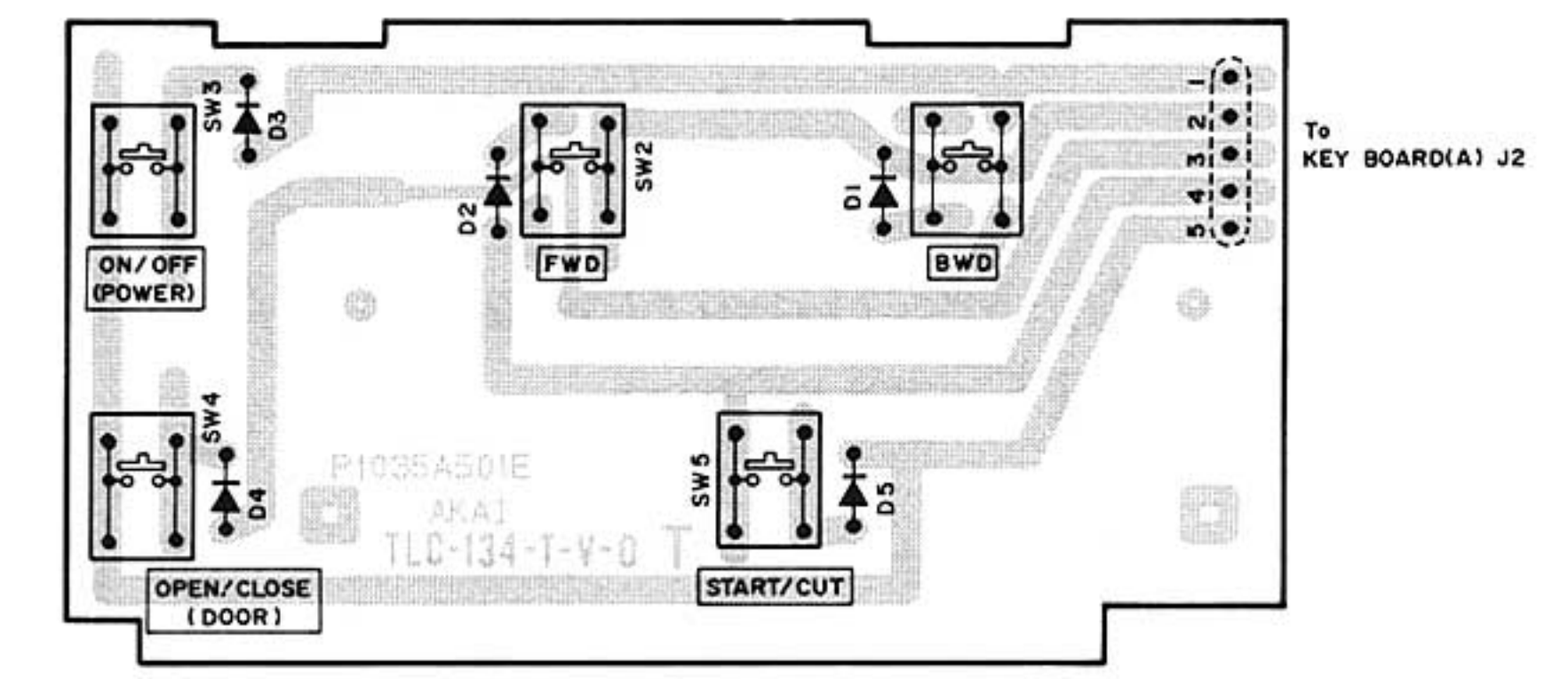
ポジションセンサー (LED) 基板
POSITION SENSOR (LED) PCB
PIO35A501G



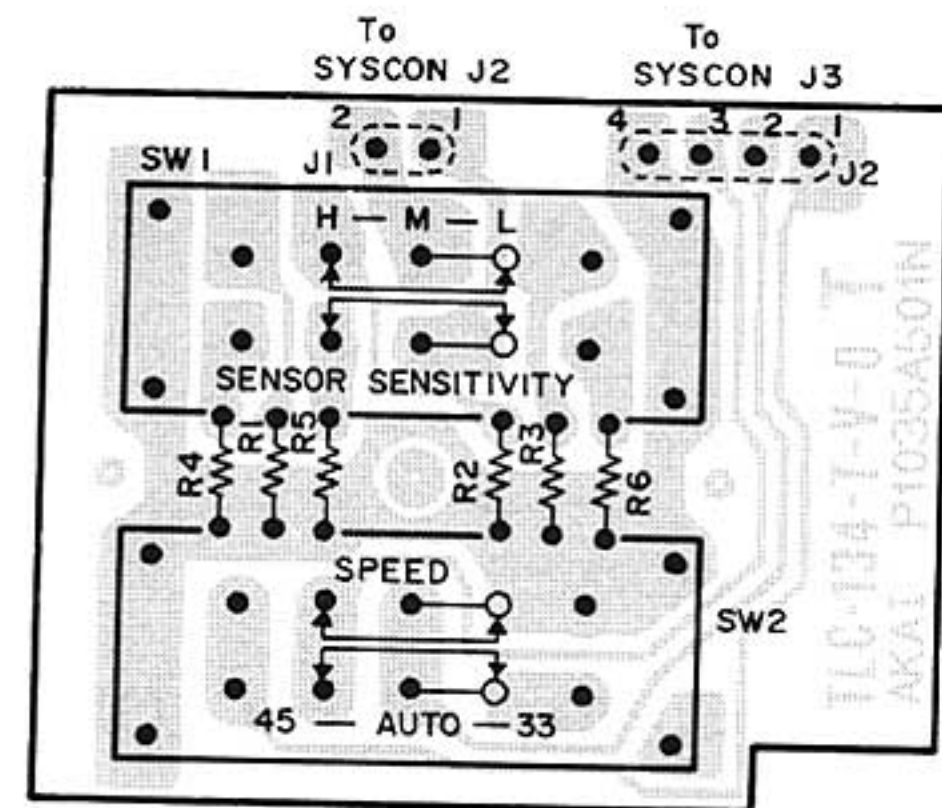
RELAY PCB PIO35A501F
リレー基板



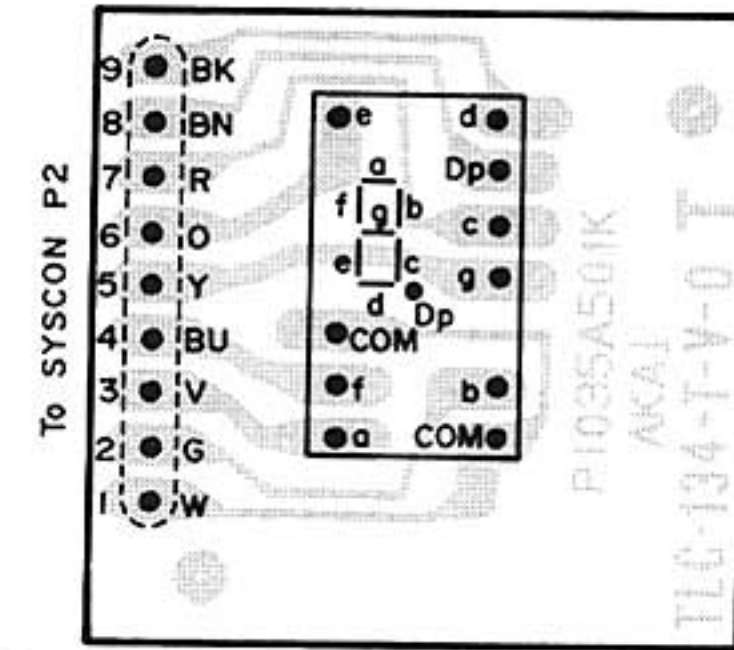
KEY BOARD (A) PCB PIO35A501D
キーボード (A) 基板



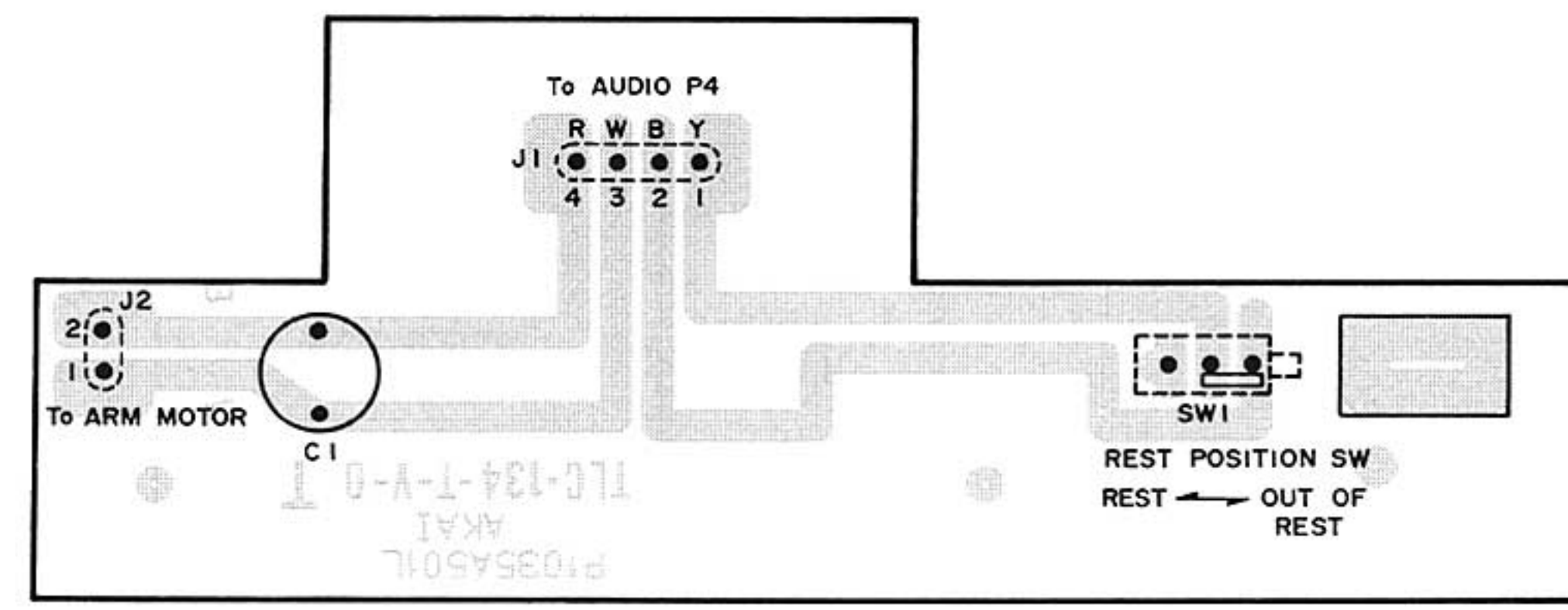
KEY BOARD (B) PCB PIO35A501E
キーボード (B) 基板



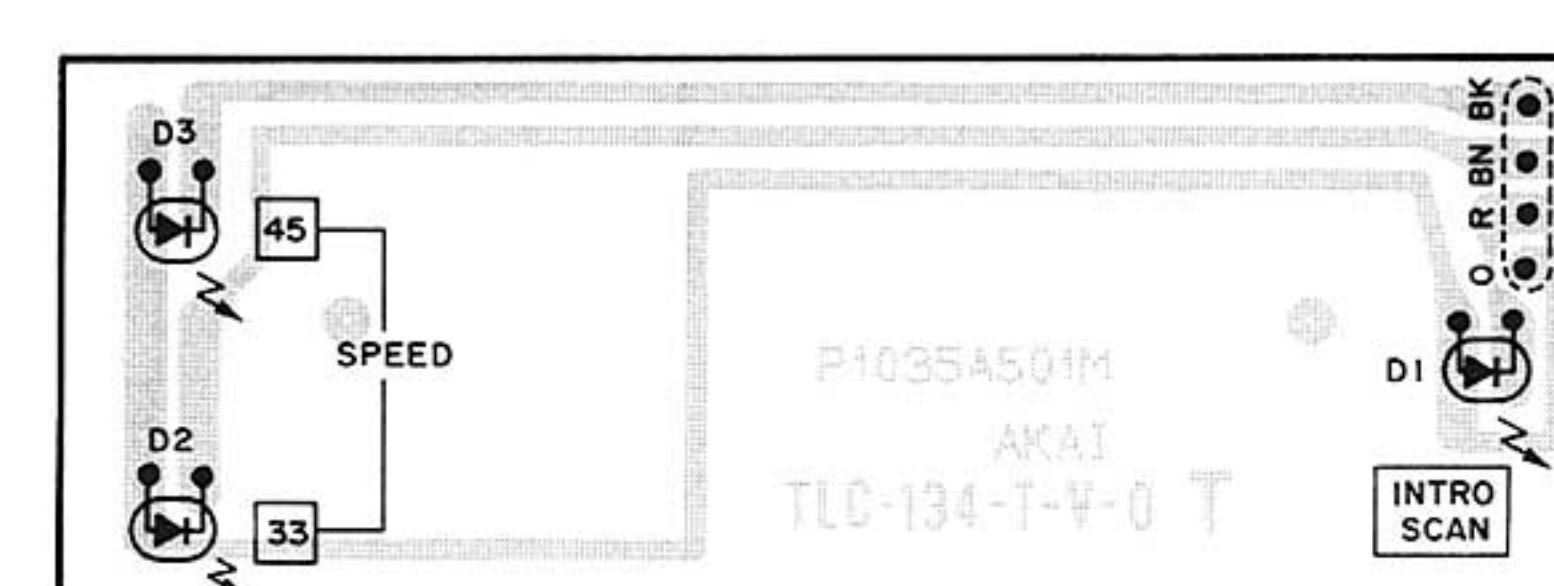
SLIDE PCB PIO35A501N
スライド基板



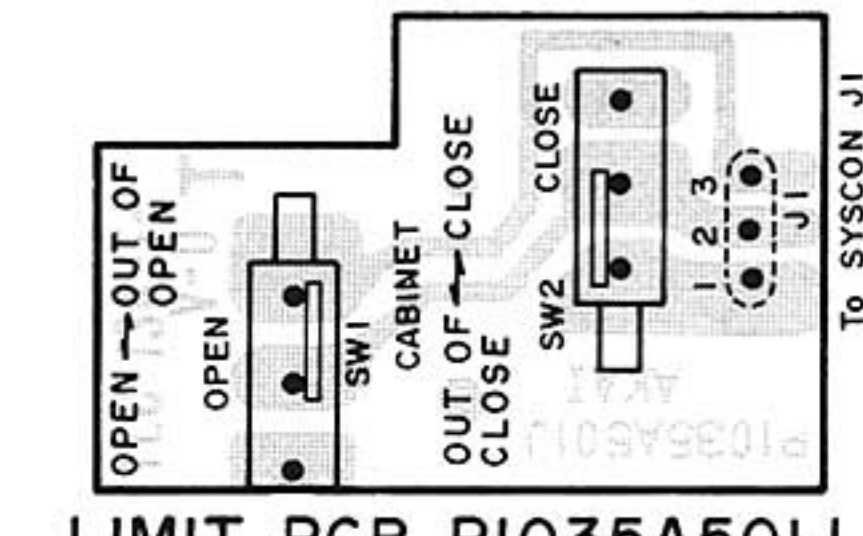
PROGRAM IND PCB PIO35A501K
プログラムインジケータ基板



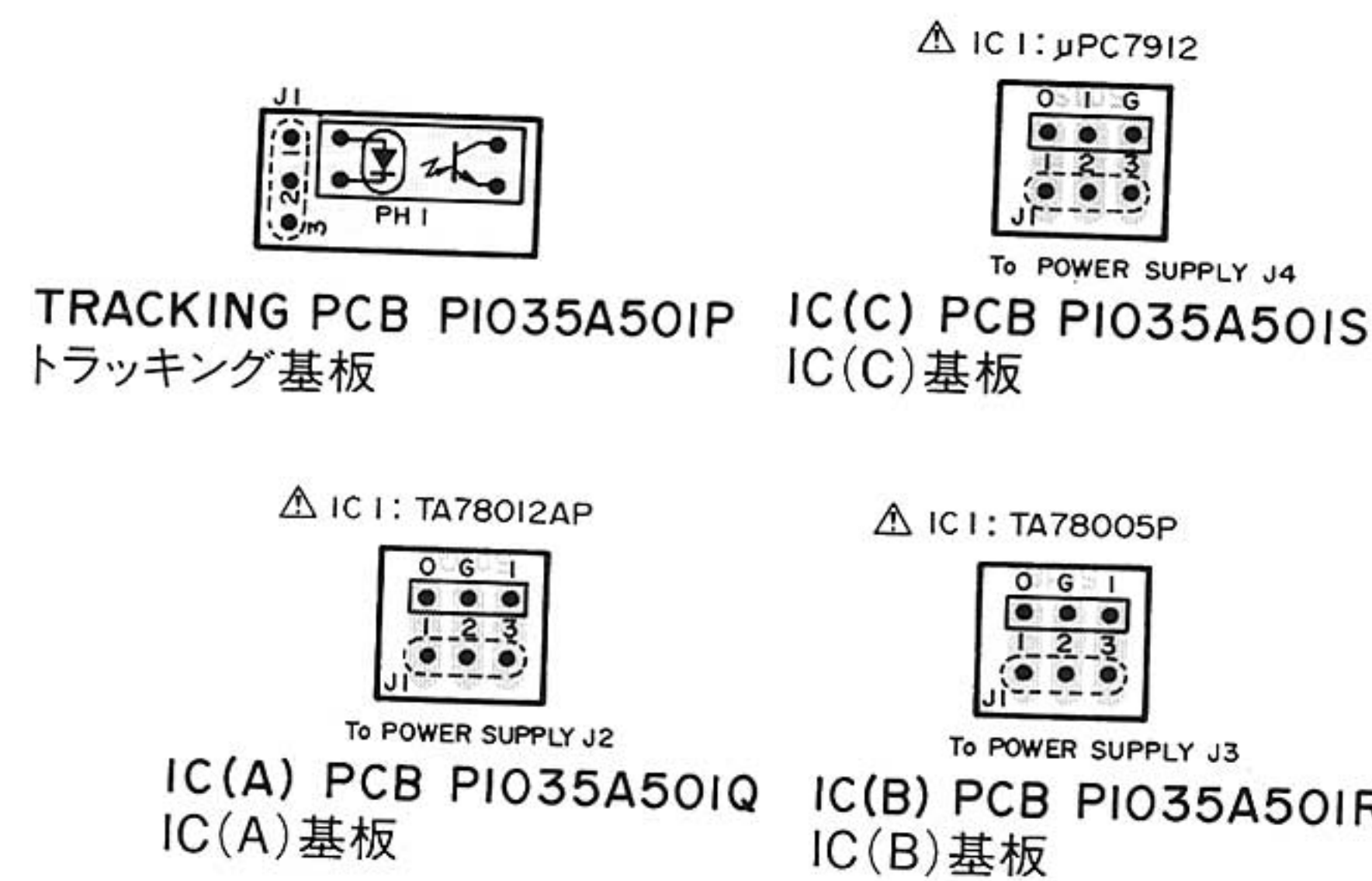
REST PCB PIO35A501L
レスト基板



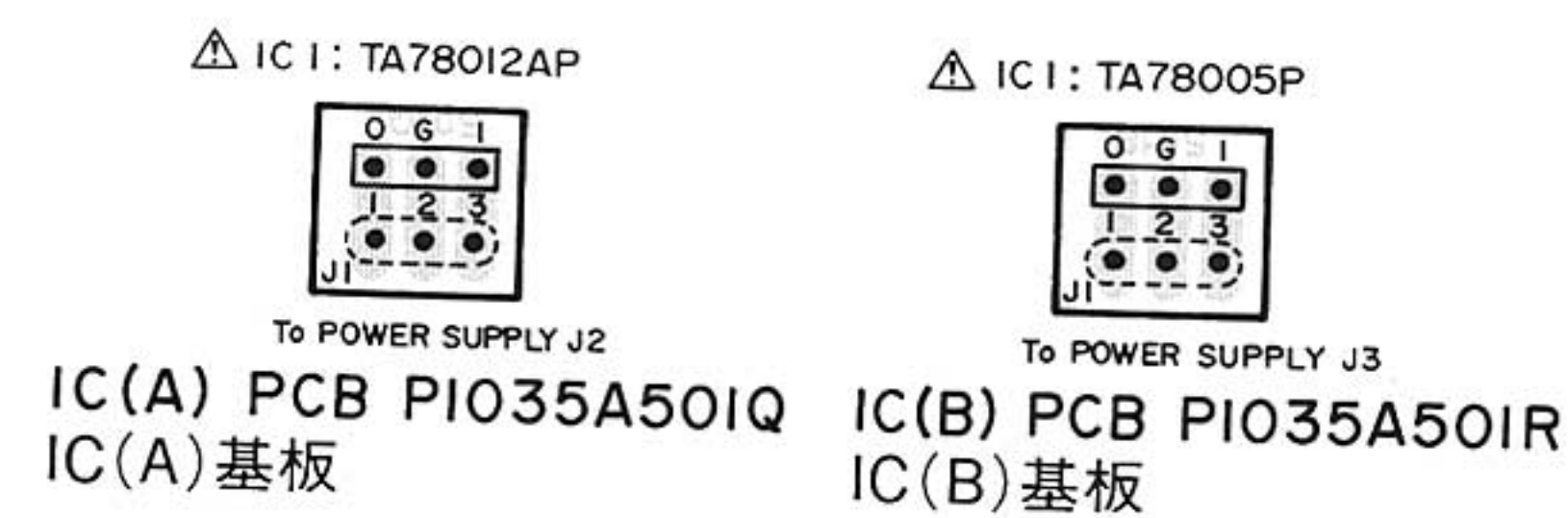
IND PCB PIO35A501M
IND基板



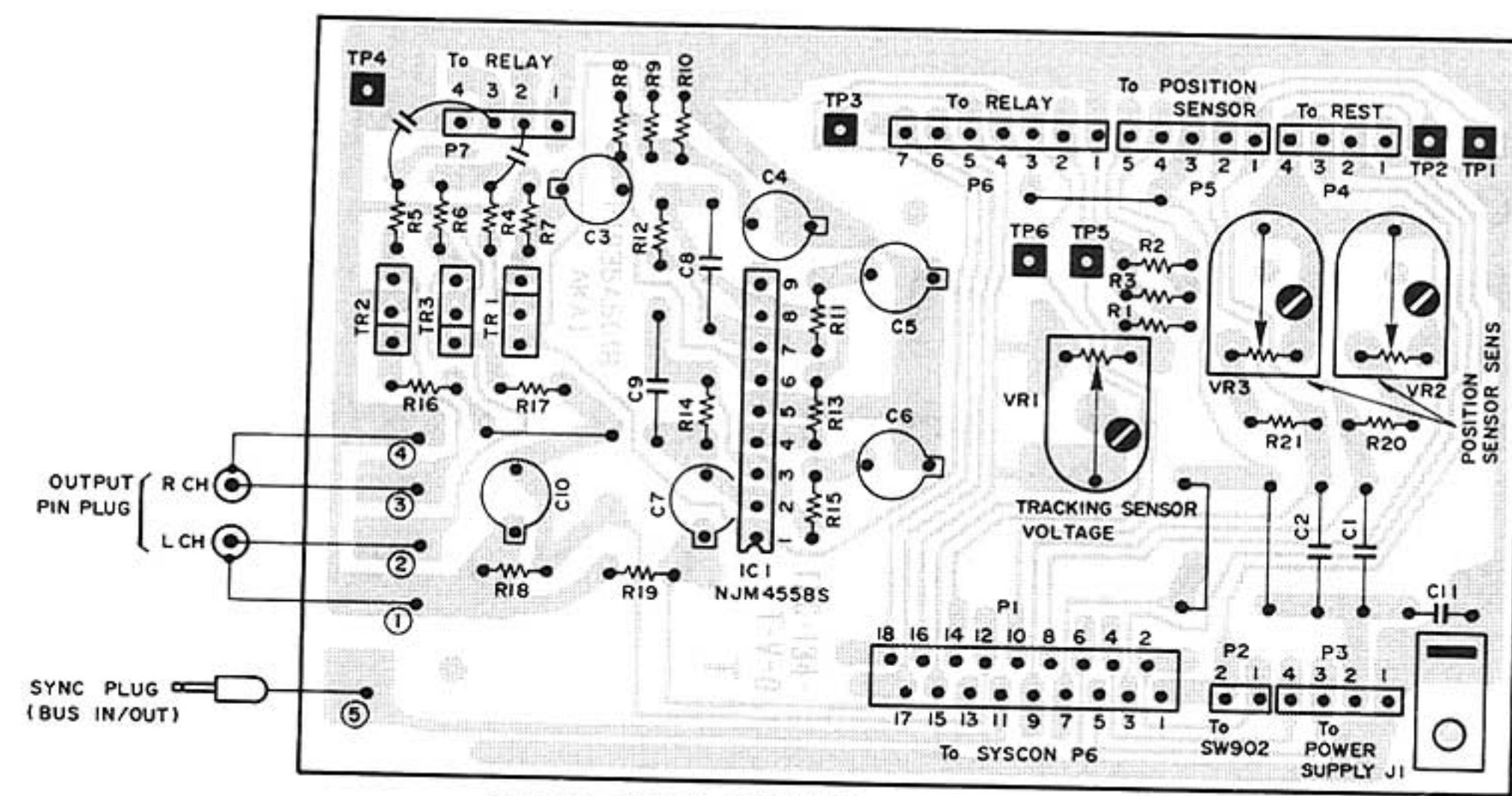
LIMIT PCB PIO35A501J
リミット基板



TRACKING PCB PIO35A501P IC (C) PCB PIO35A501S
トラッキング基板 IC (C) 基板

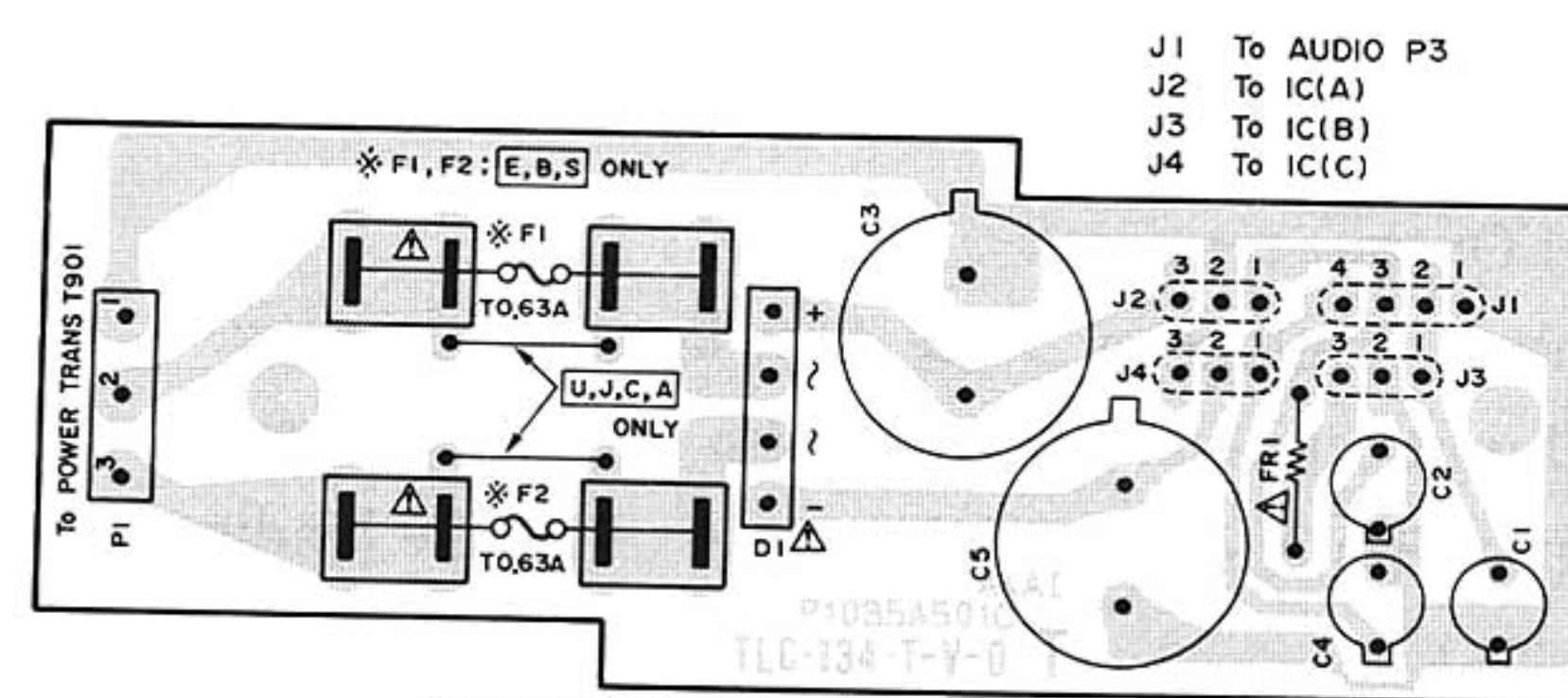


IC (A) PCB PIO35A501Q IC (B) PCB PIO35A501R
IC (A) 基板 IC (B) 基板

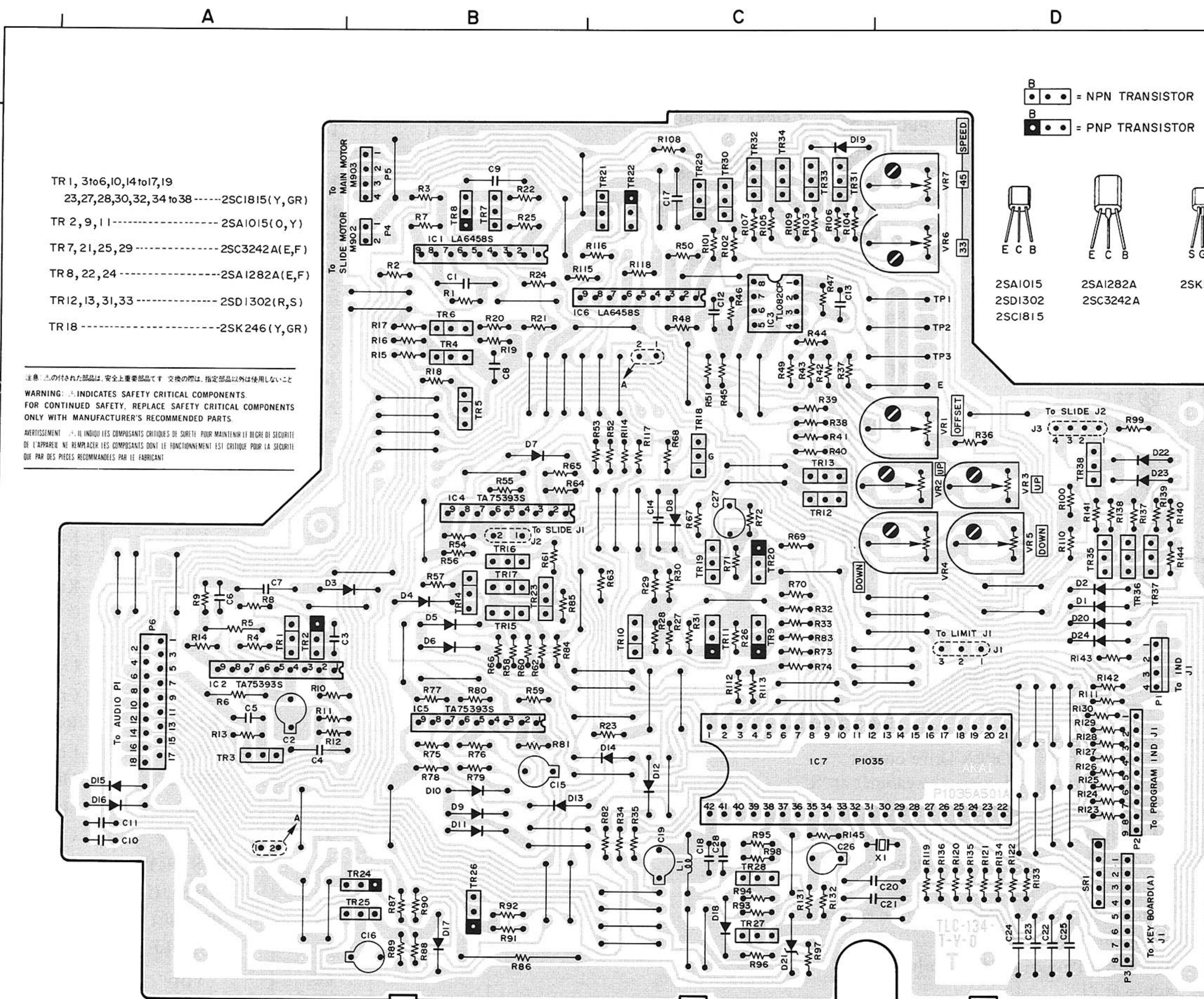


AUDIO PCB PIO35A501B
オーディオ基板

TR 1 ----- 2SK246 (Y,GR)
TR 2,3 ----- 2SD1302 (R,S)



POWER SUPPLY PCB PIO35A501C
電源基板



- TR 1, 3to6,10,14to17,19
23,27,28,30,32, 34 to 38 ----- 2SC1815 (Y, GR)
- TR 2, 9, 11 ----- 2SA1015 (O, Y)
- TR 7, 21, 25, 29 ----- 2SC3242A (E, F)
- TR 8, 22, 24 ----- 2SA1282A (E, F)
- TR 12, 13, 31, 33 ----- 2SD1302 (R, S)
- TR 18 ----- 2SK246 (Y, GR)

注意 この付された部品は、安全上重要な部品です。交換の際は、指定部品以外は使用しないでください。
WARNING: - INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
Avertissement: - IL INDIQUE LES COMPOSANTS CRITIQUES DE SECURITE. POUR MAINTENIR UN DEGRÉ DE SECURITE DE L'APPAREIL, NE REMPLACER LES COMPOSANTS QUE LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

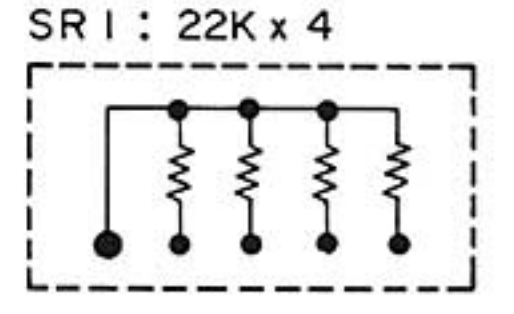
- = NPN TRANSISTOR
- = PNP TRANSISTOR

- LOCATION OF COMPONENTS
- IC
- IC 1 ----- B1
- IC 2 ----- A2
- IC 3 ----- C1
- IC 4 ----- B2
- IC 5 ----- B3
- IC 6 ----- C1
- IC 7 ----- C3

- LOCATION OF COMPONENTS
- TR
- TR 1 ----- A2
- TR 2 ----- A2
- TR 3 ----- A3
- TR 4 ----- B1
- TR 5 ----- B2
- TR 6 ----- B2
- TR 7 ----- B1
- TR 8 ----- B1
- TR 9 ----- C2
- TR 10 ----- C2
- TR 11 ----- C2
- TR 12 ----- C2
- TR 13 ----- C2
- TR 14 ----- B2
- TR 15 ----- B2
- TR 16 ----- B2
- TR 17 ----- B2
- TR 18 ----- C2
- TR 19 ----- C2
- TR 20 ----- C2
- TR 21 ----- C1
- TR 22 ----- C1
- TR 23 ----- B2
- TR 24 ----- B3
- TR 25 ----- B3
- TR 26 ----- B3
- TR 27 ----- C3
- TR 28 ----- C3
- TR 29 ----- C1
- TR 30 ----- C1
- TR 31 ----- C1
- TR 32 ----- C1
- TR 33 ----- C1
- TR 34 ----- C1
- TR 35 ----- D2
- TR 36 ----- D2
- TR 37 ----- D2
- TR 38 ----- D2

- TERMINAL
- P 1 ----- D3
- P 2 ----- D3
- P 3 ----- D3
- P 4 ----- B1
- P 5 ----- B1
- P 6 ----- A3
- J 1 ----- D2
- J 2 ----- B2
- J 3 ----- D2

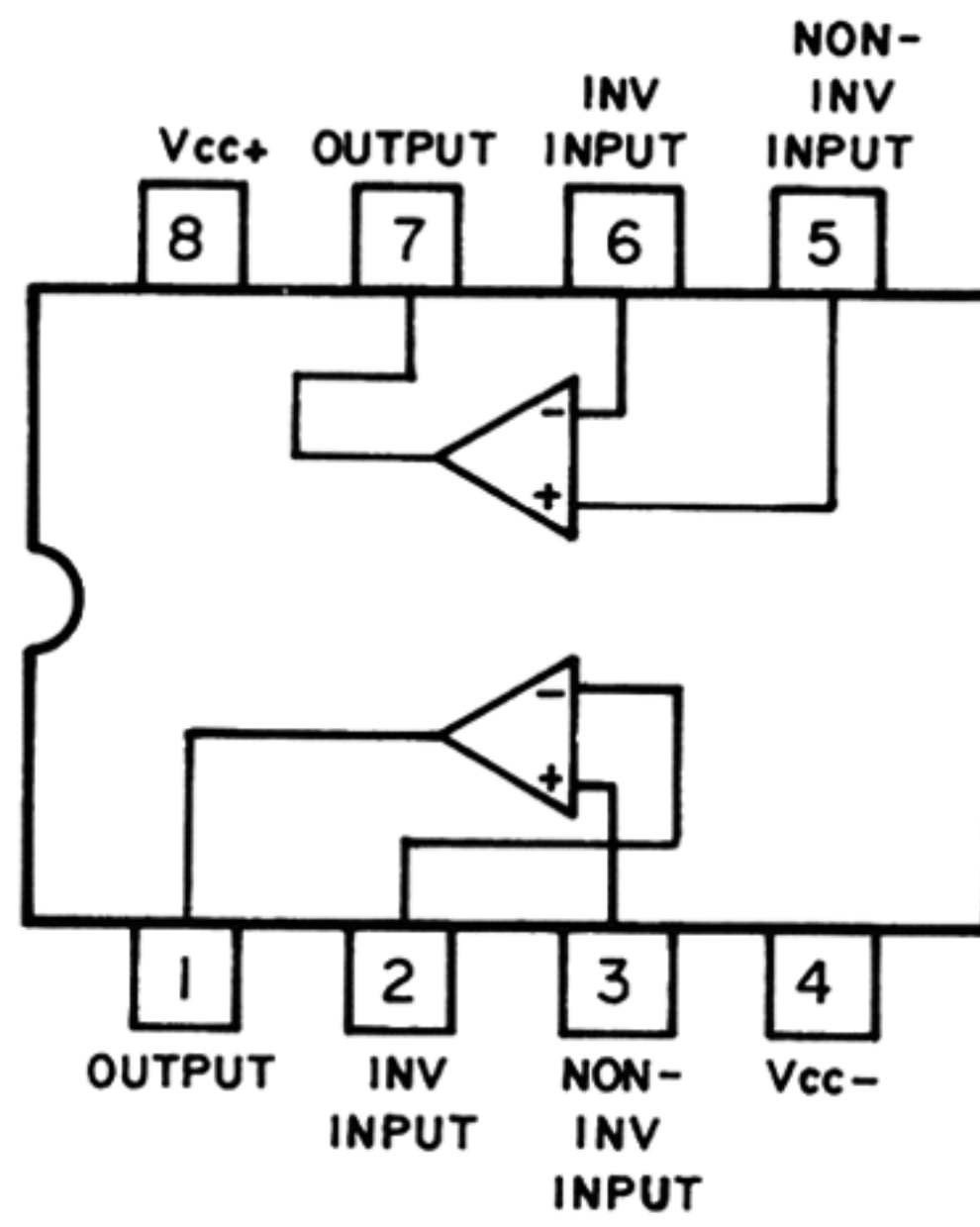
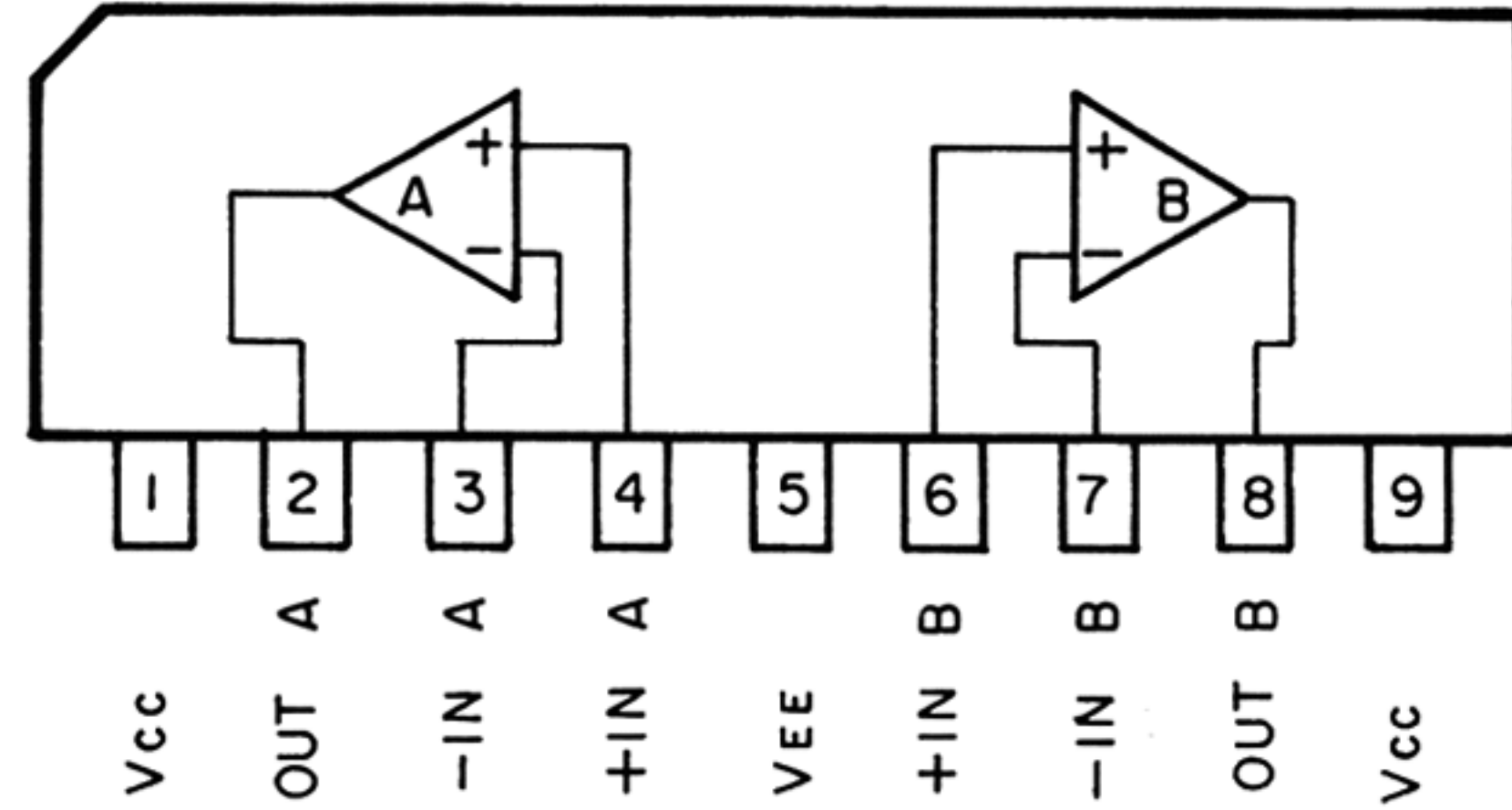
- VOLUME
- VR 1 ----- D2
- VR 2 ----- D2
- VR 3 ----- D2
- VR 4 ----- D2
- VR 5 ----- D1
- VR 6 ----- D1
- VR 7 ----- D1
- TEST POINT
- TP 1 ----- D1
- TP 2 ----- D1
- TP 3 ----- D1



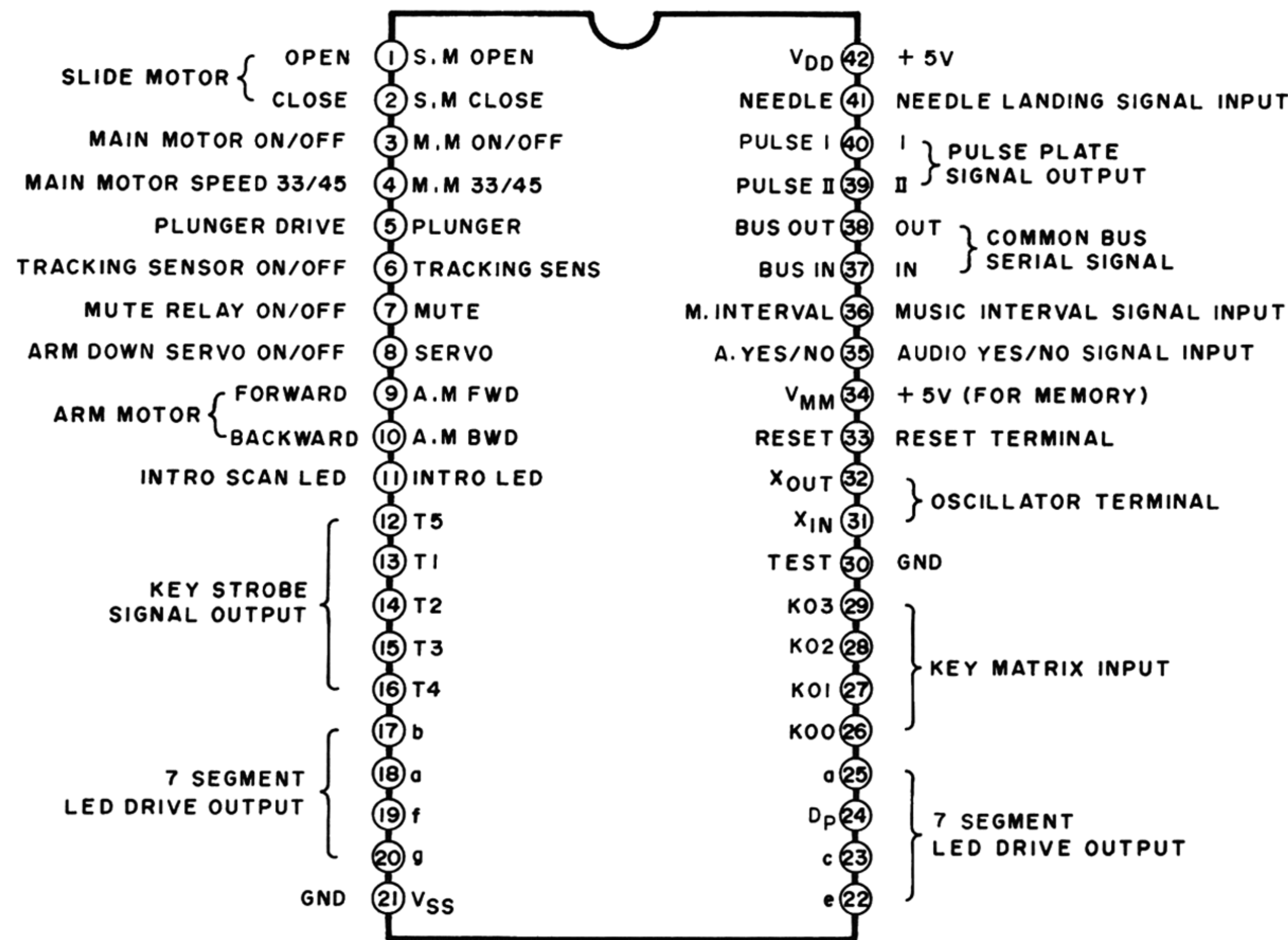
SYSTEM CONTROL PCB PIO35A501A
システムコントロール基板

LA6458S, NJM4558S (Dual Operational Amp)
TA75393S (Dual Comparator)

TL082CP



P1035



TERMINAL DESCRIPTION OF IC P1035 (4 Bit Micro Computer)

Pin No.	Symbol	Description
1	$\overline{\text{SM OPEN}}$	Slide Motor (M902) OPEN Drive output. SM starts turning and opens the cabinet at "L".
2	$\overline{\text{SM CLOSE}}$	Slide Motor (M902) CLOSE Drive output. SM starts turning and closes the cabinet at "L".
3	$\overline{\text{MM ON/OFF}}$	Main Motor (M903) ON/OFF Drive output. MM is ON at "L", OFF at "H".
4	$\overline{33/45}$	Main Motor Speed (33/45) Selection output. 33 rpm at "L", 45 rpm at "H".
5	PLUNGER	Arm Lifter Plunger (SL901) Drive output. Active at "L".

Pin No.	Symbol	Description	
6	$\overline{\text{TRACKING SENS}}$	Tracking Sensor ON/OFF Control output. ON at "L", OFF at "H".	
7	MUTE	Mute ON/OFF Control output. ON at "H", OFF at "L".	
8	SERVO	Arm Down Servo Drive output. Servo is ON at "H", OFF at "L".	
9	$\overline{\text{AM FWD}}$	Arm Motor (M901) Forward Drive output. AM turns forward (Tone arm to the left) at "L".	
10	$\overline{\text{AM BWD}}$	Arm Motor (M901) Backward Drive output. AM turns backward (Tone arm to the right) at "L".	
11	$\overline{\text{INTRO LED}}$	Intro Scan LED Drive output, lit at "L".	
12	T5	Key Strobe Signal output terminal for the mechanical switches such as CLOSE, OPEN, PLAY & REST switches.	
13	T1	Key Strobe Signal output terminal for the tact switches such as START/CUT, OPEN/CLOSE, POWER ON/OFF, & INTRO SCAN switches.	
14	T2	Key Strobe Signal output terminal for the tact switches such as FWD, BWD, CUE (ARM LIFTER) & CLEAR switches.	
15	T3	Key Strobe Signal output terminal for the tact switches such as PROGRAM CALL, 1, 2, & 3 switches.	
16	T4	Key Strobe Signal output terminal for the tact switches such as 4, 5, 6 & 7 switches.	
17	b	7 Segment LED Drive output, lit at "L".	
18	a		
19	f		
20	g		
21	Vss		Connect to GND.
22	e		7 Segment LED Drive output, lit at "L".
23	c		
24	Dp		
25	d	Key Matrix Input terminal for the switches switch as 4, PROGRAM CALL, FWD, START/CLOSE & CLOSE.	
26	K00		
27	K01		
28	K02	Key Matrix Input terminal for the switches such as 2, 6, BWD, POWER (ON/OFF) & PLAY.	
29	K03	Key Matrix Input terminal for the switches, such as 3, 7, CLEAR, INTRO SCAN & REST.	
30	TEST	Connect to GND.	
31	X IN	Crystal Oscillator Terminal.	
32	X OUT	Crystal Oscillator Terminal.	
33	$\overline{\text{RESET}}$	Reset Signal Input Terminal, Reset at "L".	
34	VMM	Connected to +5V for memory.	
35	MUSIC	Music (Audio) YES/NO Signal Input terminal.	
36	MI	Music Internal Signal Input terminal.	
37	BUS IN	Common Bus Serial Signal Input terminal.	
38	BUS OUT	Common Bus Serial Signal Output terminal.	
39	PULSE II	Pulse Plate Slave Signal Input terminal for Tone Arm Location Sensing.	
40	PULSE I	Pulse Plate Master Signal Input terminal for Tone Arm Location Sensing.	
41	NEEDLE	Needle Landing Signal Input terminal for the detection of needle landing.	
42	VDD	Power Supply terminal (+5V).	