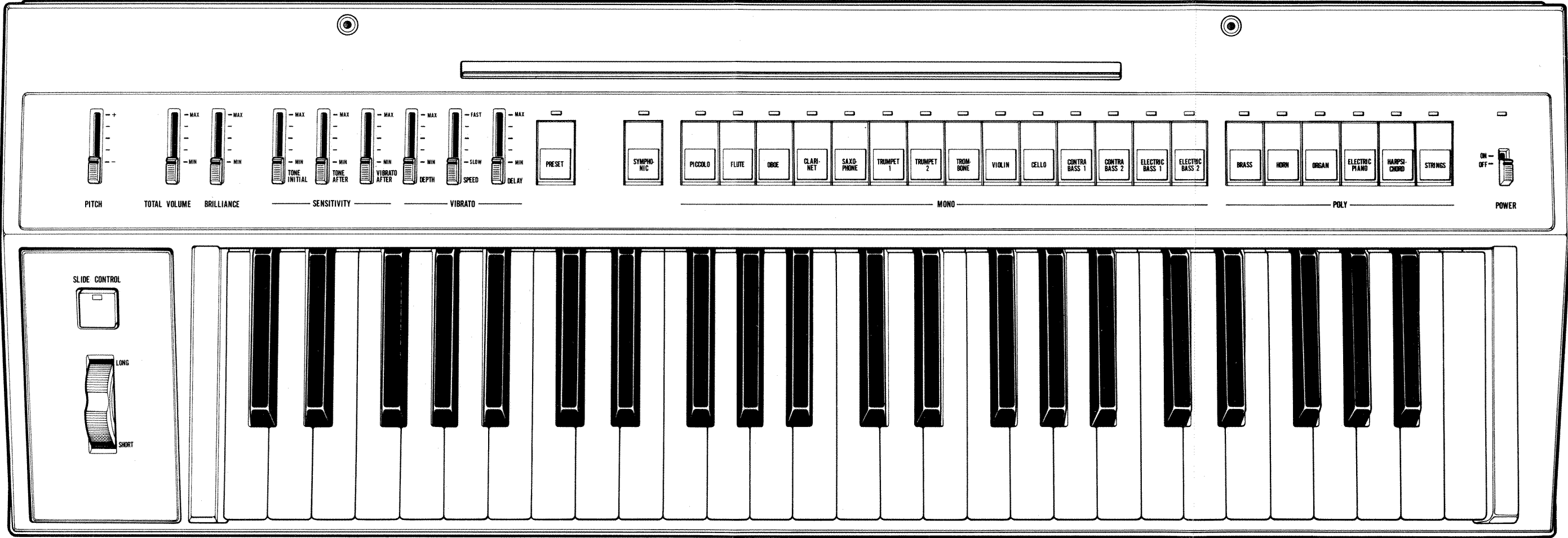
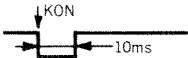
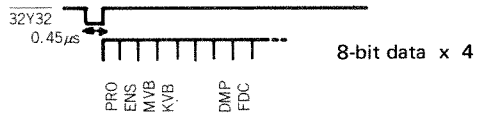
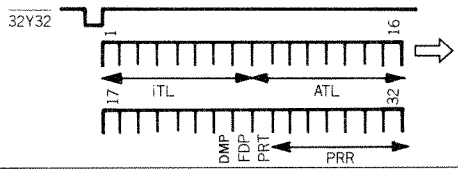
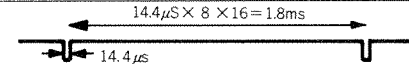
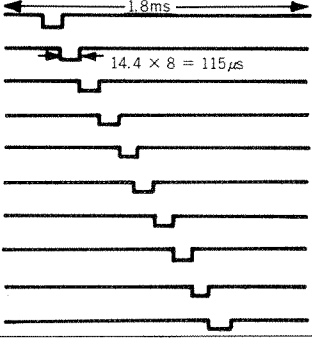
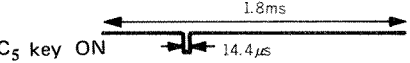

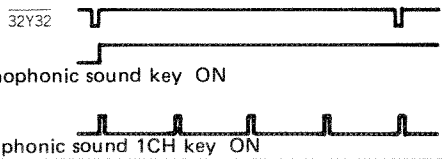


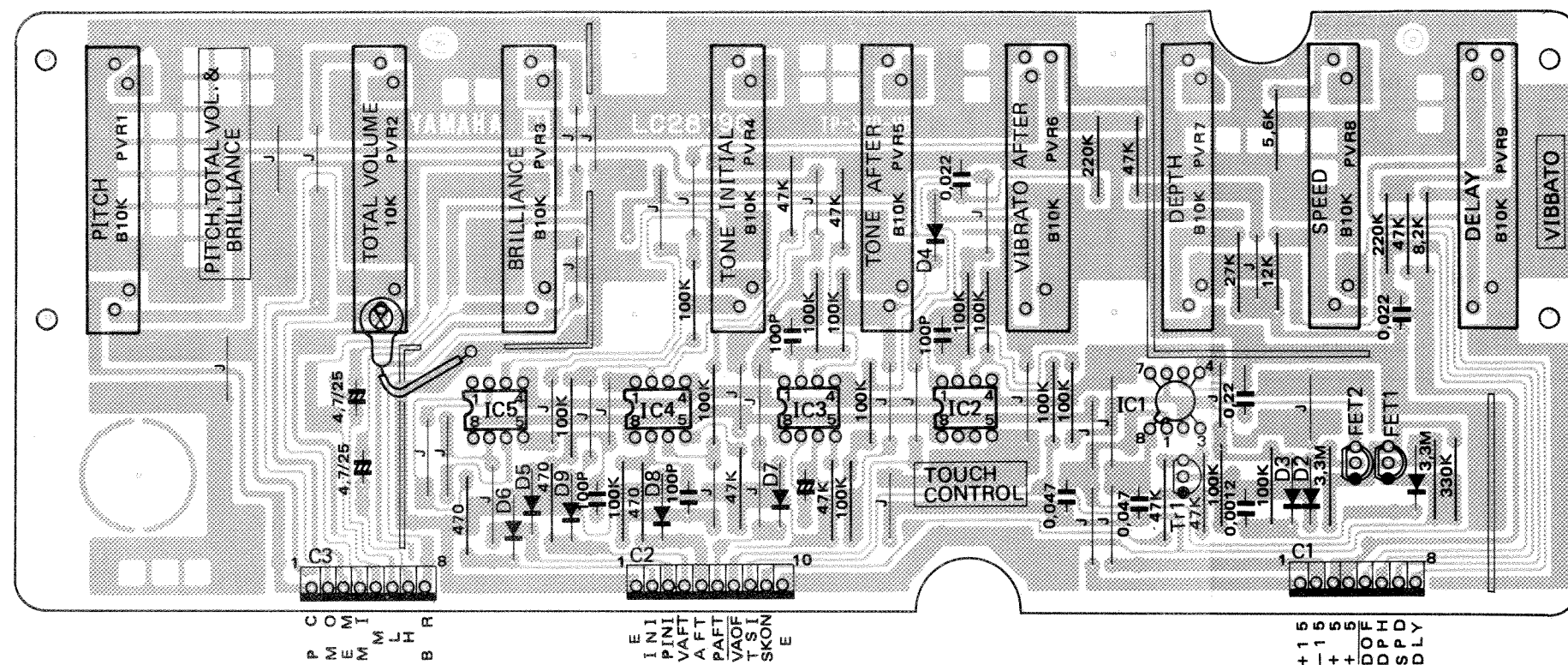
PANEL LAYOUT



LSI DATA TABLES
KAS (YM20080)

PIN NO.	NAME	I/O	FUNCTION	WAVEFORM
1	VSS	—	Supply power 0V	
2	IC	I	Initial clear	
3	AO	O	A—D conversion reference voltage (100~2650mV) 10mV steps 8-bit ADC	
4	TEST	I	Test terminal	
5	CiN	I	A—D conversion comparator input	
6	REG	I/O	A—D conversion data output, test input	
7	IS	O	Initial touch sensing signal	
8	F	I	Function data serial input, 8 bits Portamento ON, Polyphonic sound, Delay vib OFF, After damp/sustain, Forcing decay vib ON	
9	SD	O	EG serial data output, 32 bits Initial touch level (8), After touch level (8), damp sustain, Forcing damp, Portamento Portamento rate ON	
10	32Y32	O	System sync signal	
11	SCE	O	VROM sync signal (for key scanning) SCAN END . . generated at the end of key scanning	
12	6H	O	Keyboard scan C ₆ ~G ₅	
13	6L	O	Drive side F ₅ ~C ₅	
14	5H	O	C ₅ ~G ₄	
15	5L	O	F ₄ ~C ₄	
16	4H	O	C ₄ ~G ₃	
17	4L	O	F ₃ ~C ₃	
18	3H	O	C ₃ ~G ₂	
19	3L	O	F ₂ ~C ₂ , C ₂	
20	2H	O	C ₂ ~G ₁	
21	2L	O	F ₁ ~C ₁ , C ₁	
22	KON	O	Keyboard key ON data	
23	CL	I	Keyboard scan	<p>For example, B₄ and F₃ keys ON</p> 
24	GC#	I	Receive side	
25	G#D	I		
26	AD#	I		
27	A#D	I		
28	BF	I		
29	CF#	I		
30	KD1	O	Key OFF signal	

CPA CIRCUIT BOARD



View from the printed pattern side of the circuit board.

C1			
Pin No.	Pin Name	Wire Color	Destination
1	+15	PK	SA-+15 (C1-6)
2	-15	RE	SA- -15 (C2-2)
3	+5	OR	PSW-+5 (C2-5)
4	+5	OR	SCS-+5A (C1-3)
5	DOF	GG	DM-DOF (C3-2)
6	DPH	RE	DM-DPH (C4-9)
7	SPD	BR	DM-SPD (C4-10)
8	DLY	YE	DM-DLY (C4-7)

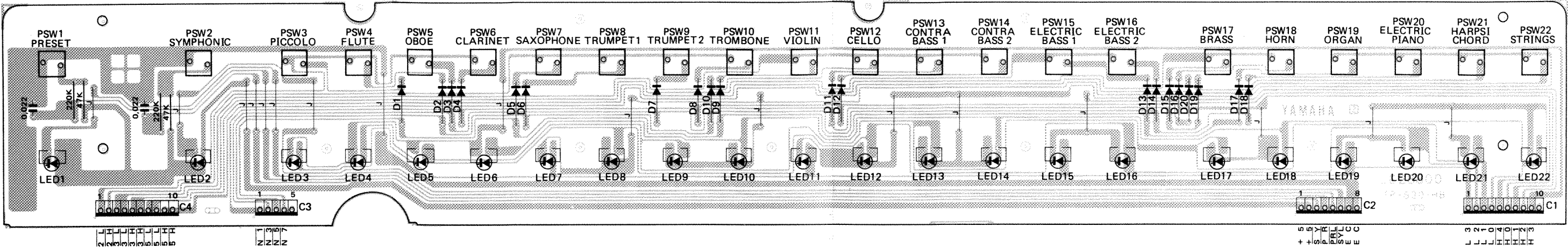
C2			
PIN No.	PIN Name	Wire Color	Destination
1	E	BL	SA-E (C2-7)
2	INI	VI	DM-INI (C4-1)
3	PINI	WH	DM-PINI (C4-3)
4	VAFT	OR	DM-VAFT (C4-8)
5	AFT	BE	DM-AFT (C4-5)
6	PAFT	GY	DM-PAFT (C4-2)
7	VAOF	PK	DM-VAOF (C3-1)
8	TSI	SB	TS-TSO (C1-2)
9	SKON	BR	DM-SKON (C9-2)
10	E	—	—

Pin No.	Pin Name	Wire Color	Destination
1	PC	GG	DM-PC (C9-6)
2	MO	S GR	SA-MI (C3-3)
3	EM	S GR S	SA-E (C3-2)
4	MI	S VI	SA-MO (C4-10)
5	M	RE	SA-M (C5-5)
6	L	BR	SA-L (C5-4)
7	H	OR	SA-H (C5-3)
8	RR	S YE	SA-RR (C6-2)

Notes)

1. Circuit Board: LC28790 ①
2. Integrated Circuits
IC1 : TA7505M
IC2 ~ 5 : NJM4558
3. Transistor
Tr1 : 2SA1015
4. Field Effect Transistors
FET1, 2 : 2SK30A
5. Diodes
D1 ~ 9 : 1S1555

CPB CIRCUIT BOARD



View from the printed pattern side of the circuit board.

C1

Pin No.	Pin Name	Wire Color	Destination
1	L3	YE	DM-L3 (C1-9)
2	L2	OR	DM-L2 (C1-8)
3	L1	RE	DM-L1 (C1-7)
4	L0	BR	DM-L0 (C1-6)
5	H4	WH	DM-H4 (C1-5)
6	H0	GR	DM-H0 (C1-3)
7	H1	BE	DM-H1 (C1-2)
8	H2	VI	DM-H2 (C1-1)
9	H3	GY	DM-H3 (C1-4)
10	-	-	-

C4

Pin No.	Pin Name	Wire Color	Destination
1	2L	BR	DM-2L (C6-3)
2	2H	RE	DM-2H (C6-4)
3	3L	OR	DM-3L (C6-5)
4	3L	OR	MK-3L (C1-1)
5	3H	YE	DM-3H (C6-6)
6	3H	YE	MK-3H (C1-2)
7	5L	VI	DM-5L (C5-2)
8	5L	VI	MK-5L (C1-5)
9	5H	GY	DM-5H (C5-3)
10	5H	GY	MK-5H (C1-6)

C2

Pin No.	Pin Name	Wire Color	Destination
1	+5	OR	DM-+5 (C10-3)
2	+5	OR	JK-+5D (C1-5)
3	SY	GR	DM-SY (C3-3)
4	PR	BE	DM-PR (C3-4)
5	PRL	OR	DM-PRL (C2-3)
6	SYL	YE	DM-SYL (C2-4)
7	EC	BL	DM-E (C8-6)
8	EC	BL	SCS-EC (C1-6)

C3

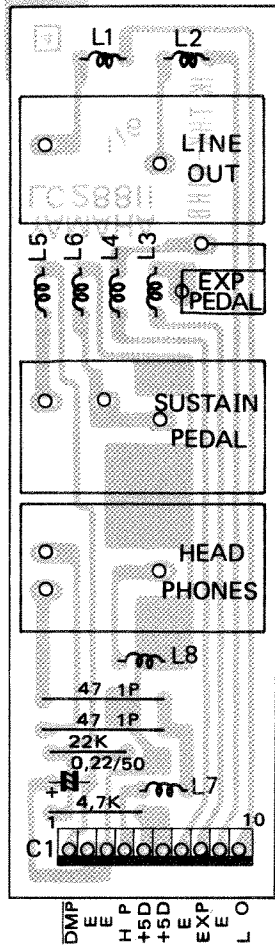
Pin No.	Pin Name	Wire Color	Destination
1	N1	VI	DM-N1 (C2-5)
2	N3	GY	DM-N3 (C2-6)
3	N5	WH	DM-N5 (C2-7)
4	N7	GG	DM-N7 (C2-8)
5	-	-	-

Notes)

- 1. Circuit Board : LC28800 ②
- 2. Diodes
D1 ~ D20 : 1S1555

JK, PSW, PL, SCW, SCS & TS CIRCUIT BOARDS

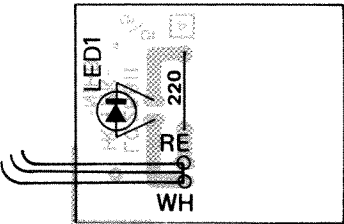
JK



C1			
Pin No.	Pin Name	Wire Color	Destination
1	DMP	GY	DM-DMP (C3-6)
2	E	—	—
3	E	BL	SA-E (C3-6)
4	HP	YE	SA-HP (C3-7)
5	+5D	OR	CPB+5 (C2-2)
6	+5D	YE	SCS+5D (C1-4)
7	E	S BE S	SA-E (C4-7)
8	EXP	S BE	SA-EXP (C4-8)
9	E	S OR S	SA-E (C3-4)
10	LO	S OR	SA-LO (C3-5)

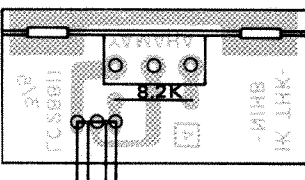
Note)
1. Circuit Board : LC28811 ㉔

PL



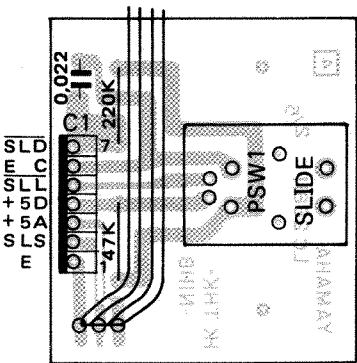
Note)
1. Circuit Board : LC28811 ㉔

SCW



Note)
1. Circuit Board : LC28811 ㉔

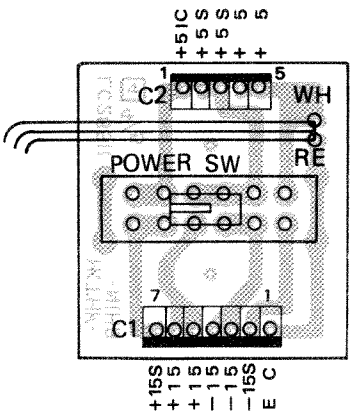
SCS



C1			
Pin No.	Pin Name	Wire Color	Destination
1	E	BL	SA-E (C2-9)
2	SLS	GR	DM-SLS (C4-6)
3	+5A	OR	CPA+5 (C1-4)
4	+5D	YE	JK+5D (C1-6)
5	SLL	RE	DM-SLL (C2-2)
6	EC	BL	CPB-EC (C2-8)
7	SLD	VI	DM-SLD (C3-5)

Note)
1. Circuit Board : LC28811 ㉔

PSW

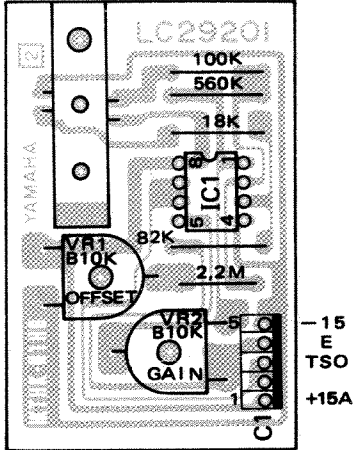


C1			
Pin No.	Pin Name	Wire Color	Destination
1	EC	BL	DM-E (C8-2)
2	-15S	BR	DM- -15S (C8-10)
3	-15	RE	DM- -15 (C10-5)
4	-15	RE	SA- -15 (C2-1)
5	+15	PK	DM+15 (C10-7)
6	+15	PK	SA+15 (C1-5)
7	+15S	VI	DM+15S (C8-1)

C2			
Pin No.	Pin Name	Wire Color	Destination
1	+51C	OR	DM+51C (C10-1)
2	+5S	YE	DM+5S (C8-8)
3	+5S	YE	DM+5S (C8-9)
4	+5	OR	DM+5 (C10-2)
5	+5	OR	CPA+5 (C1-3)

Note)
1. Circuit Board : LC28811 ㉔

TS



C1			
Pin No.	Pin Name	Wire Color	Destination
1	+15	PK	SA+15 (C1-7)
2	TSO	SB	CPA-TSI (C2-8)
3	TSO	BE	DM-TS (C9-7)
4	E	BL	SA-E (C2-8)
5	-15	RE	SA- -15 (C2-3)

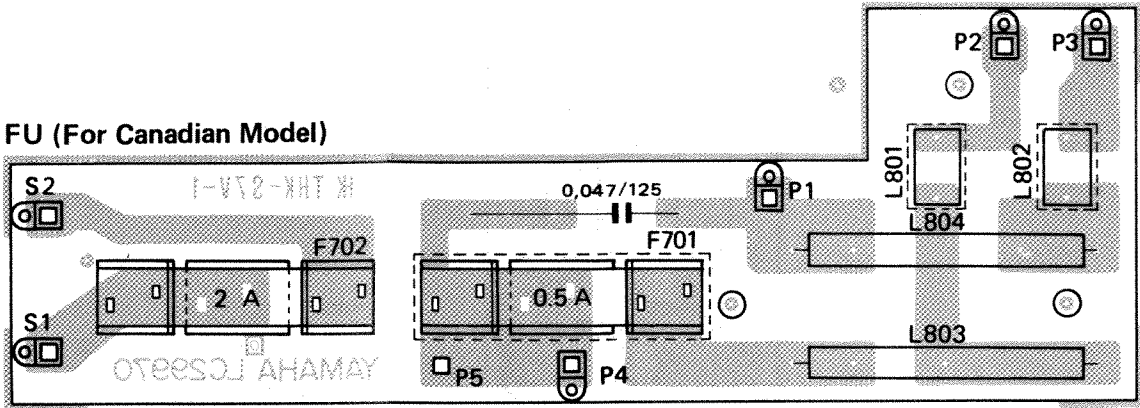
Note)
1. Circuit Board : LC29201 ㉔
2. Integrated Circuit
IC1 : NJM4558DV

View from the printed pattern side of the circuit board.

KEP-NA10727-19 ㉔

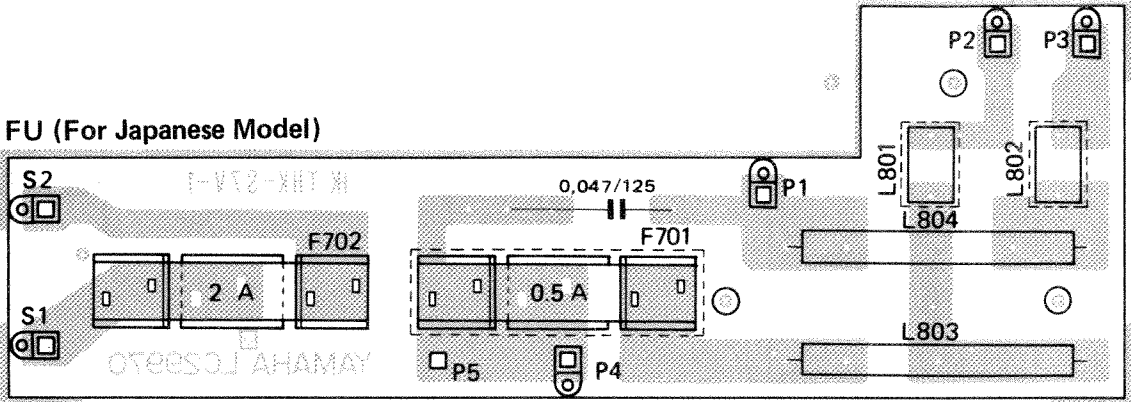
View from the component side of the circuit board.

FU CIRCUIT BOARD



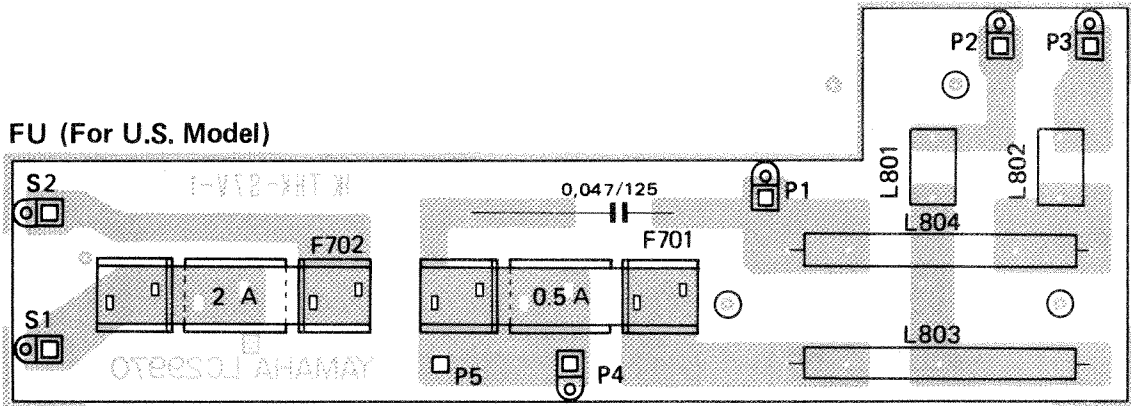
KEP-NA10806-19 Δ

- Notes)
- 1. Circuit Board : LC29970 □
 - 2. Fuse
F701 : 0.5A/250V (ST4)
F702 : 2.0A/250V (ST4)



KEP-NA10804-19 Δ

- Notes)
- 1. Circuit Board : LC29970 □
 - 2. Fuse
F701 : 0.5A/125V
F702 : 2.0A/125V



KEP-NA10805-19 Δ

- Notes)
- 1. Circuit Board : LC29970 □
 - 2. Fuse
F701 : 0.5A/250V (ST4)
F702 : 2.0A/250V (ST4)

View from the component side of the circuit board.