KSP30/20/10 Service Manual

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1. P.W.B. INFORMATION

P.W.B. Name	Code No.	
HEP-001(1)	236497	Main P.W.B.(For KSP10)
" (2)	236519	" (For KSP20)
HEP-009(1):D	236509	Main P.W.B.(For KSP30)
" (2):except D	236532	// (//)
HEP-010~013(1)	236499	Panel P.W.B.(For KSP10)
// 010~014(2)	236515	" (For KSP30)
″ 010~014(3)	236518	// (For KSP20)
HEP-006,007(1):D	236498	Main Amp. Power Supply (For KSP20)
" (2):US,CA	236500	" (For KSP10)
" (3):NE	236501	" (")
" (4):GE110V	236502	" (")
// (5):AU	236503	" (")
" (6):D	236510	" (For KSP30)
" (7):US,CA	236511	" (")
" (8):NE	236512	" (")
" (9):GE110V	236513	" (")
// (10):AU	236514	" (")

2. SEMICONDUCTORS LIST

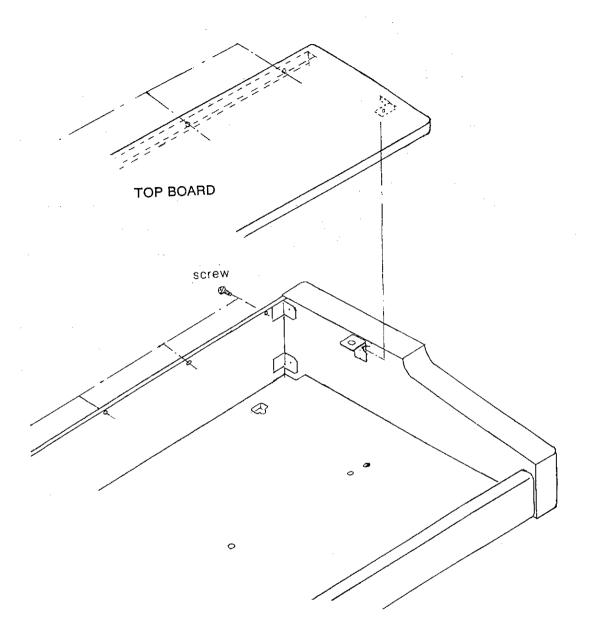
	Code No.	Part Name	KSP10	Pieces KSP20	KSP30	Description
IC	804050	74HC04FP	1	1	1	Inverter
	804055	HD74HC541	1	1	1	Buffer/Driver/Receiver
	805154	74HC74	1	1	1	Flip/Flop(Dual D-Type)
	805758	K005FP(QFP64P)	1	1	1	Key Touch Controller
	806448	74HC03	1	1	1	NAND Gate
-	806449	74HC08	1	1	2	AND Gate
	806520	74HC139			1	Decoder/Demultiplexer
	806962	MN19411(QFP64P)	1	1	1	ASP
	807020	HD63266F(QFP64P)			1	Floppy Disk Controller
	807657	K015FP(QFP160P)	1	1	2	Sound Source
	808376	HD64180R1F10(QFP80P)			1	CPU
	808476	MT4C4256Z-8	2	2	2	DRAM
	808618	K016FP(QFP80P)	1	1	1	Filter
	808923	TMP96C141F(QFP80P)	1	1	1	CPU
	808924	MN64761M(QFP42P)	1	1	1	DA CONVERTER

	Code No.	Part Name	KSD10	Pieces	KSP30	Description
	808925	PD431000AGW-10LL	1	1	1	S.RAM
	808926	PD43256AGU-10L	1	1	1	"
	808927	74F138SJ	1	1	2	Decoder
	808928	74AC139	1	1	1	Decoder
	808929	74BC573	2	2	2	Latch
	808930	MB3771PF	1	1	1	Reset IC
	808931	BA15532F	3	3	3	OP Amp
	808932	PC400T	1	1	1	Photo coupler
	809270	HM658128ADFP-10			2	PS.RAM
	809271	M66220FP		÷	1	Dual Port RAM
	809272	HD74UH04			1	INVERTER
	809279	74HC157			1	Data Selector
	926595	KP069A(SOP44P)	1	1	1	M.ROM
	926600	KP070 (")	1	1	1	<i>II</i>
	926605	KP071 (")	1	1	1	<i>#</i>
	926610	HP040 (")	1	1	1	//
	926620	HP042(MBM27C2048-12Z)	1	1	1	EP.ROM
	927155	MP090(SOP44P)			1	M.ROM
	927160	MP091(")			1	"
	927165	MP092(//)			1	<i>II</i>
	927175	HP044(HN27C256AG-10)			1	EP.ROM
	926615	HP041 (TMS27C240-10JL)	1			<i>"</i>
	927855	HP059(")		1		<i>"</i>
	927170	HP043(")			1	// (Japan)
	929365	HP063(//)			1	// (except Japan)
	808457	74HC595	8	8	8	Shift Register
	808972	74HC165	8	8	8	Shift Register
	802889	AN7815F	1	1	1	Regulator
	802890	AN7915F	1	1	1	//
	804920	M5F7805	1	1		!
*	808947	STK4152-MK2	1	1	1	Amp IC
:	808948	M5229P	2	2	2	Equalizer
	808949	BA15532N(SIP8P)	2	2	2	OP Amp
	809274	STK720B			1	Regulator
	809275	M5283P			1	VCA
	809276	M5238AL			1	OP Amp

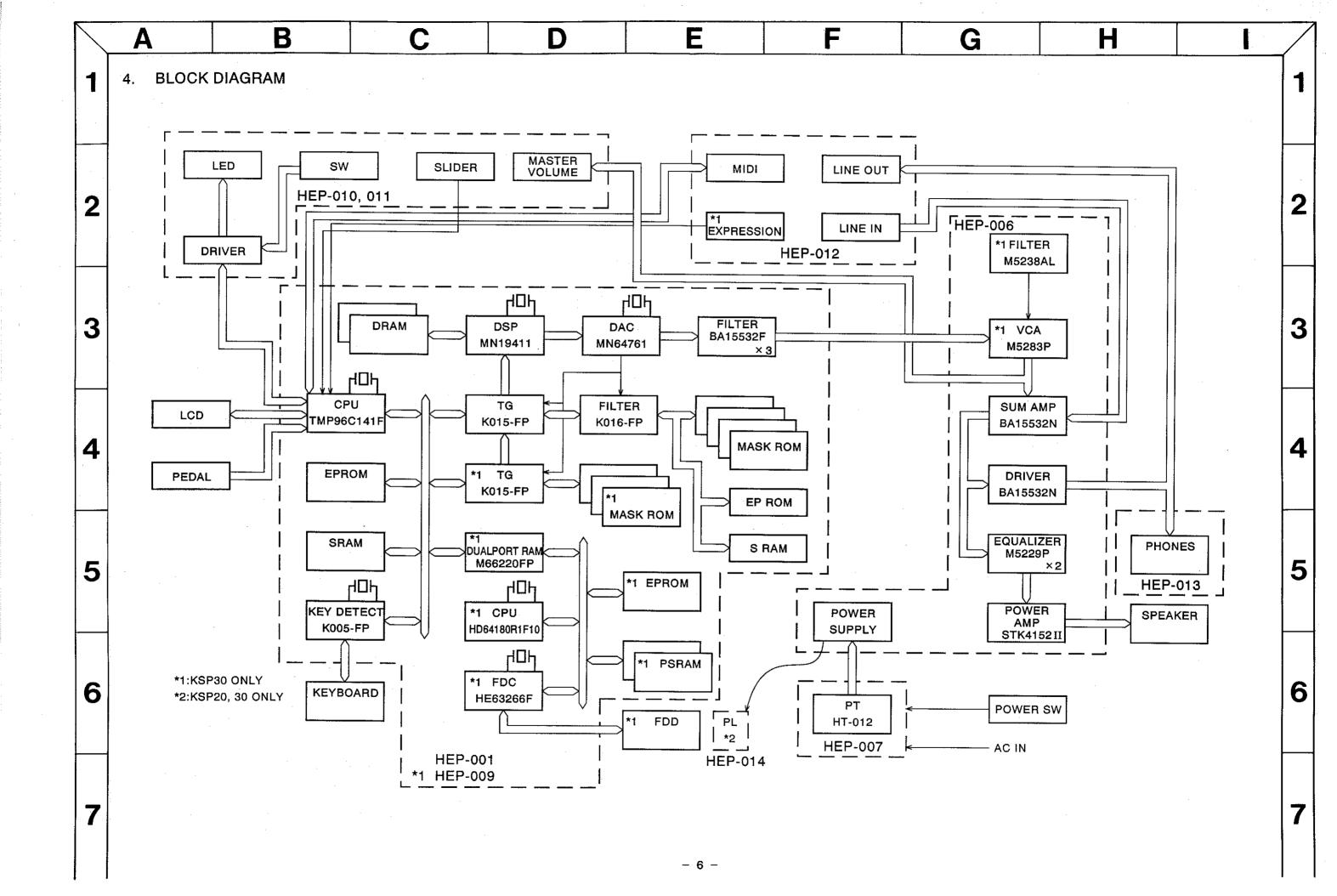
	Code No.	Part Name	KSP10	Pieces	KSP30	Description
Transistor	808933	2SB1295-6	1	1	1	
	805984	2SD1468SR	3	3	3	
	808950	2SB1322AR	2	2	2	
	808973	DTA114ES	1	1	1	
	808951	2SD1994AR	2	2	2	
Diode	808934	MA741	1	1	1	
	805852	1SR139-100	3	3	3	
	808952	DBF40B	2	2	2	
Zener Diode	809243	GZB6.2C			1	
Oscillator	808935	SMD-49 16.0000MHZ	1	1	1	
	808936	// 20.0000MHZ	1	1	1	
	808937	// 24.0000MHZ	1	1	1	
	808938	// 33.8688MHZ	1	1	1	

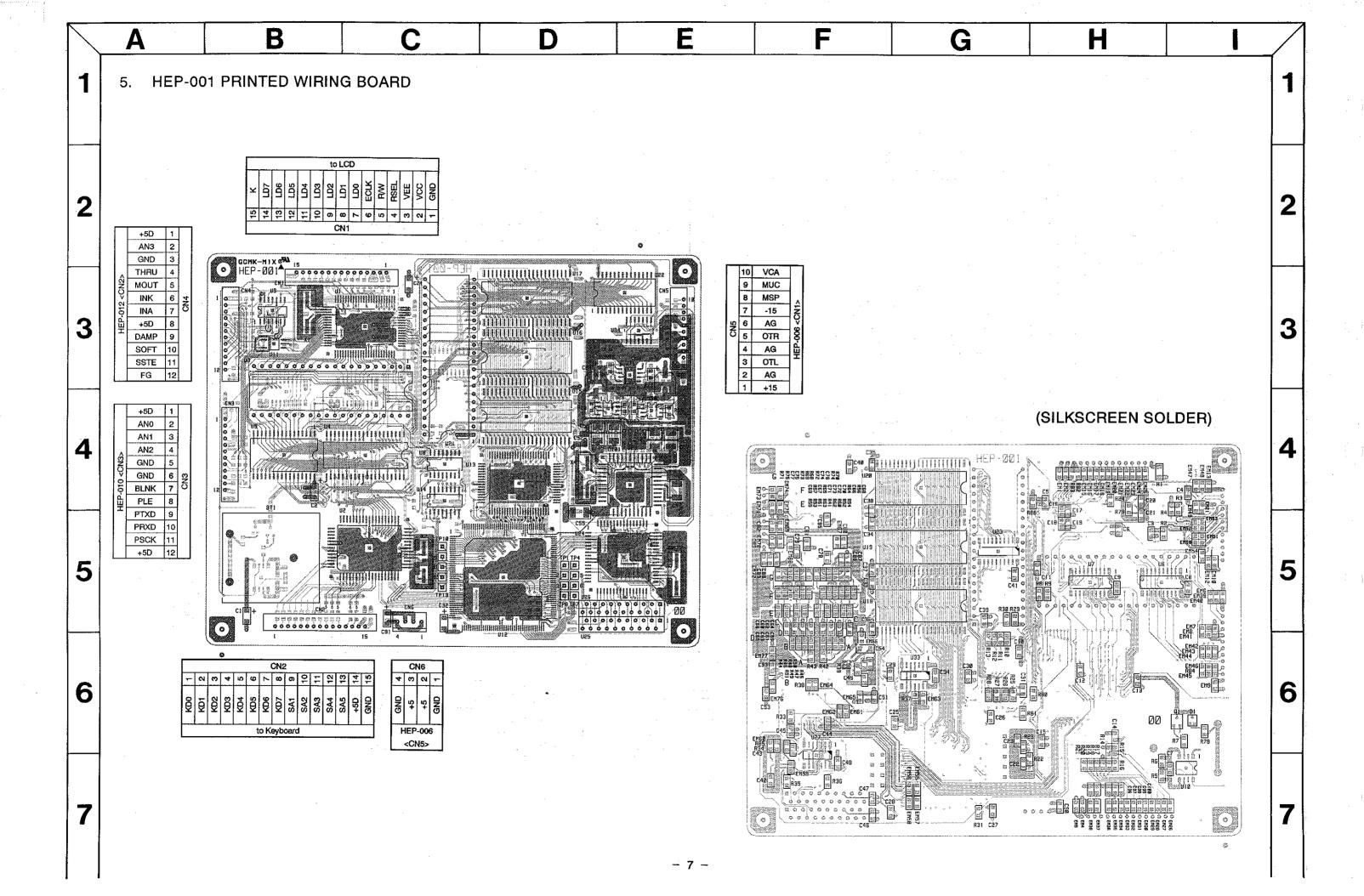
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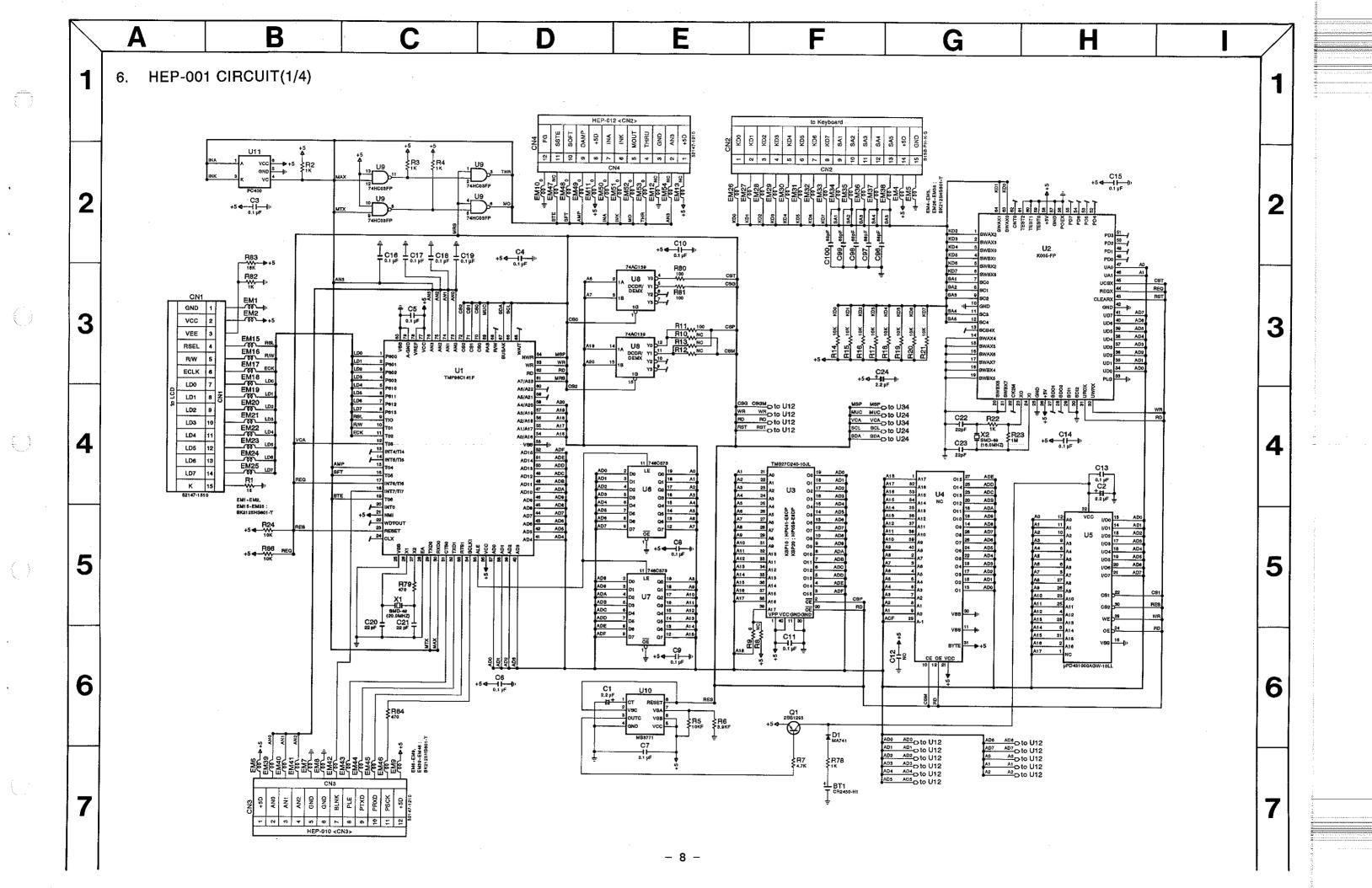
3. TOP BOARD OPENING PROCEDURE

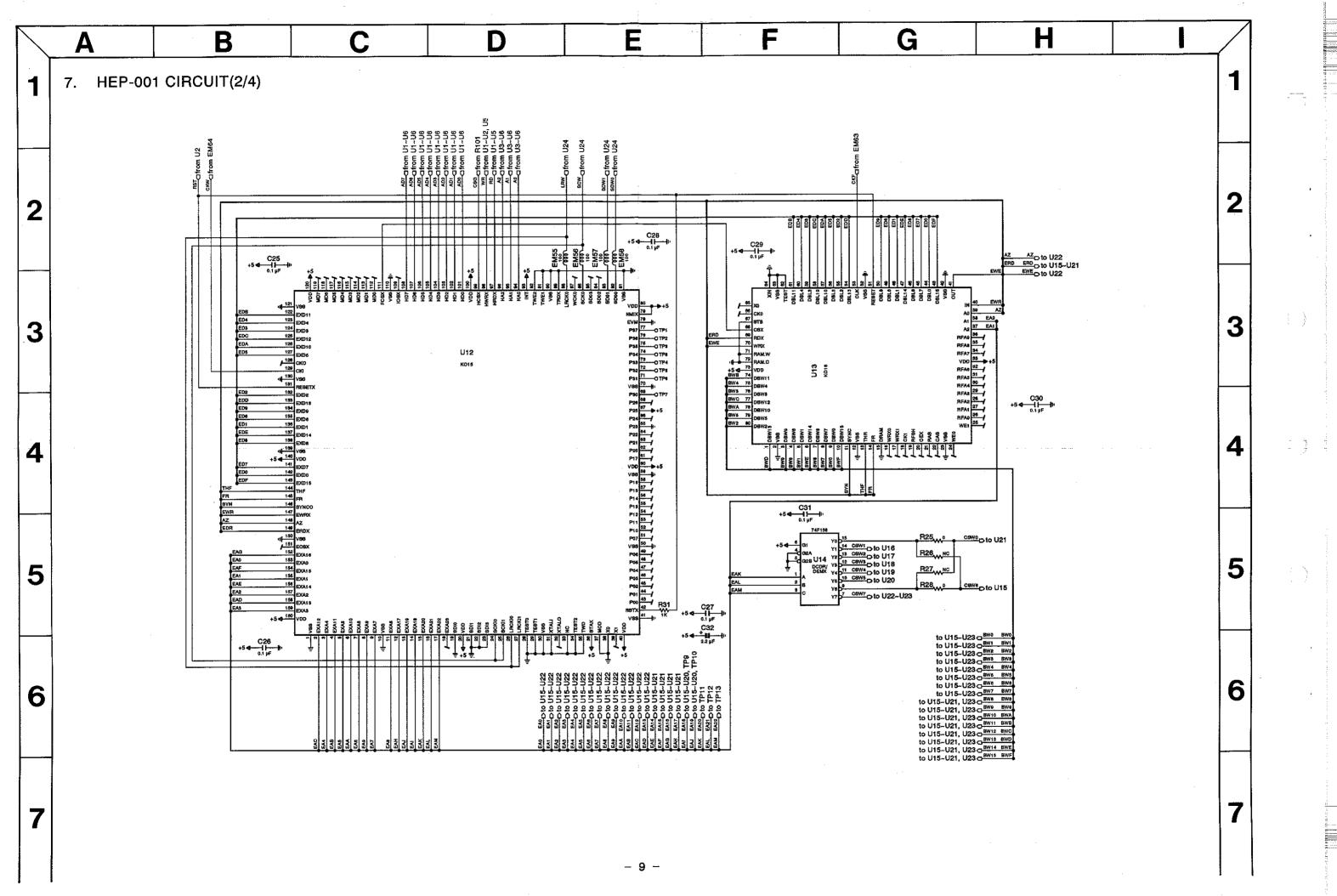


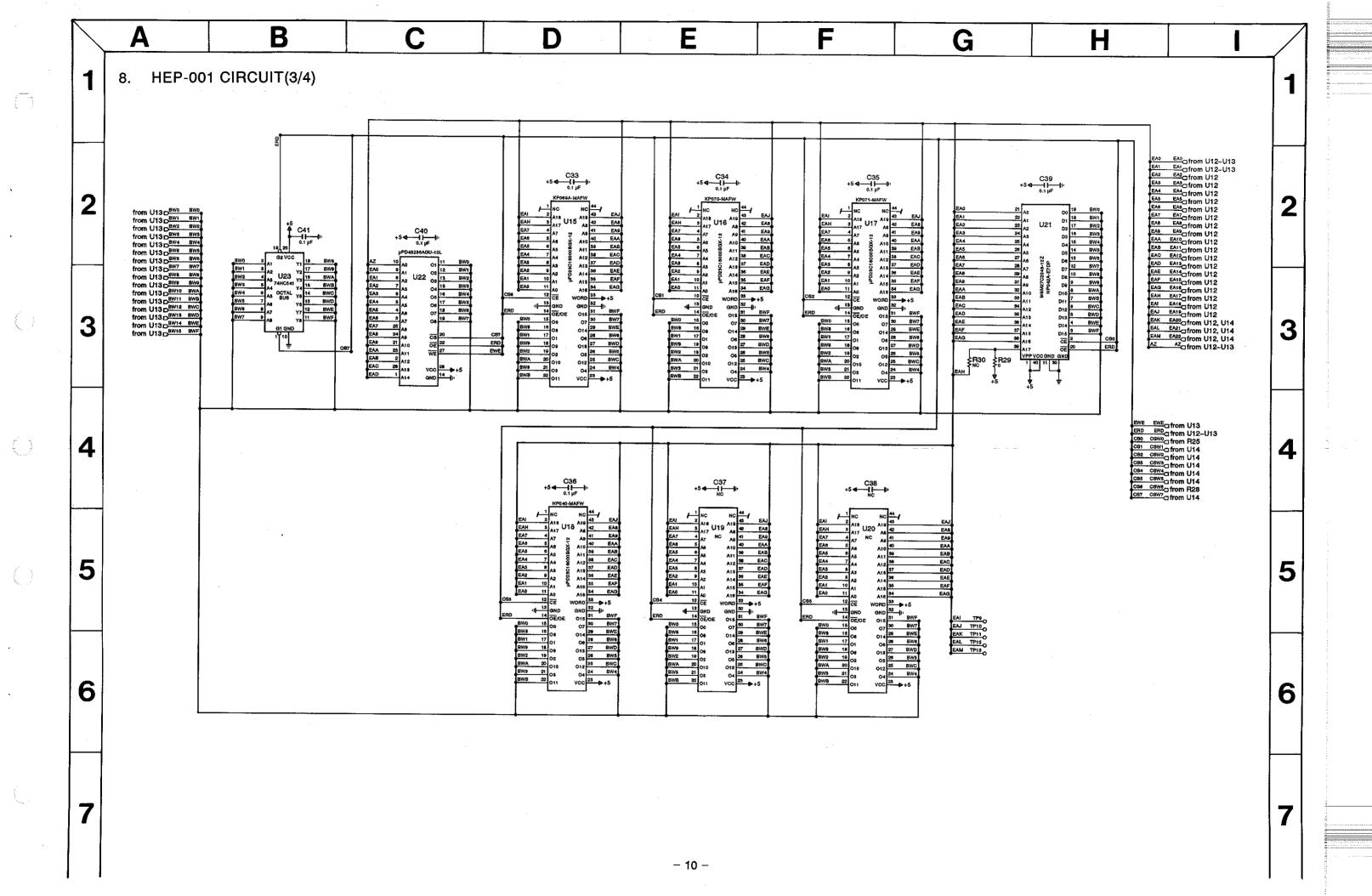
- 1. Remove the 5 (five) back screws.
- 2. Slide TOP BOARD forward. (Keyboard side)
- 3. Lift TOP BOARD up and away from the piano.

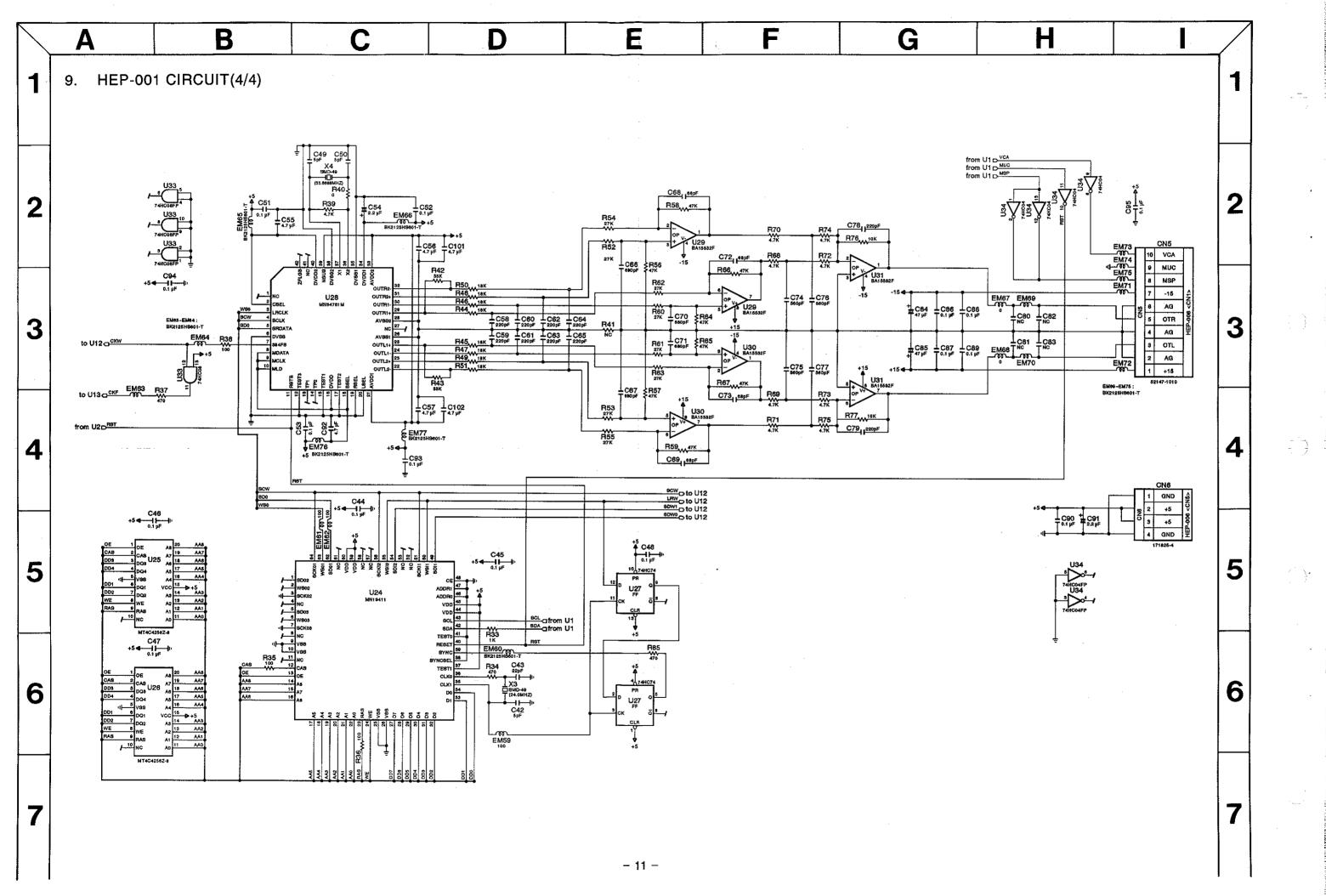


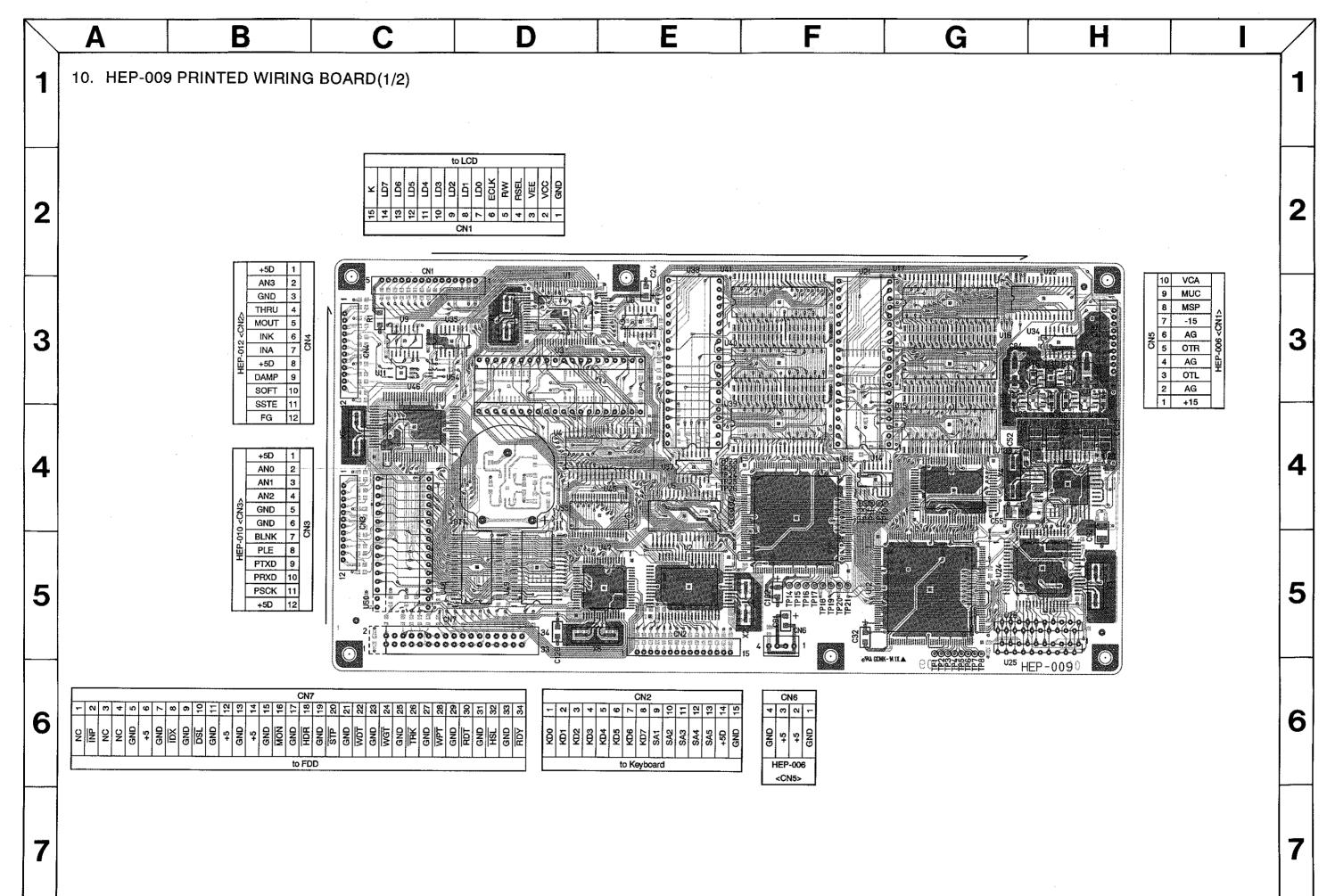


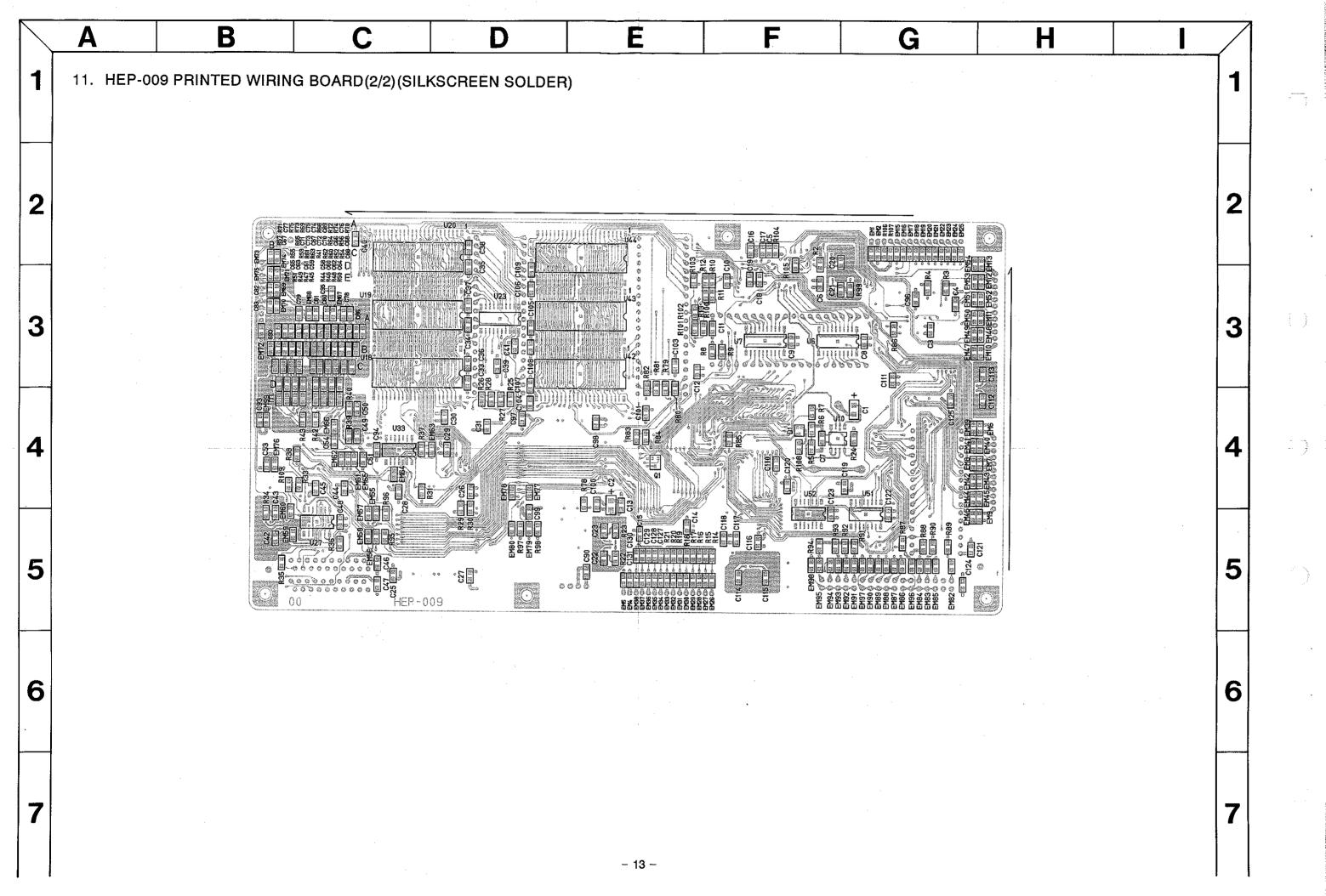


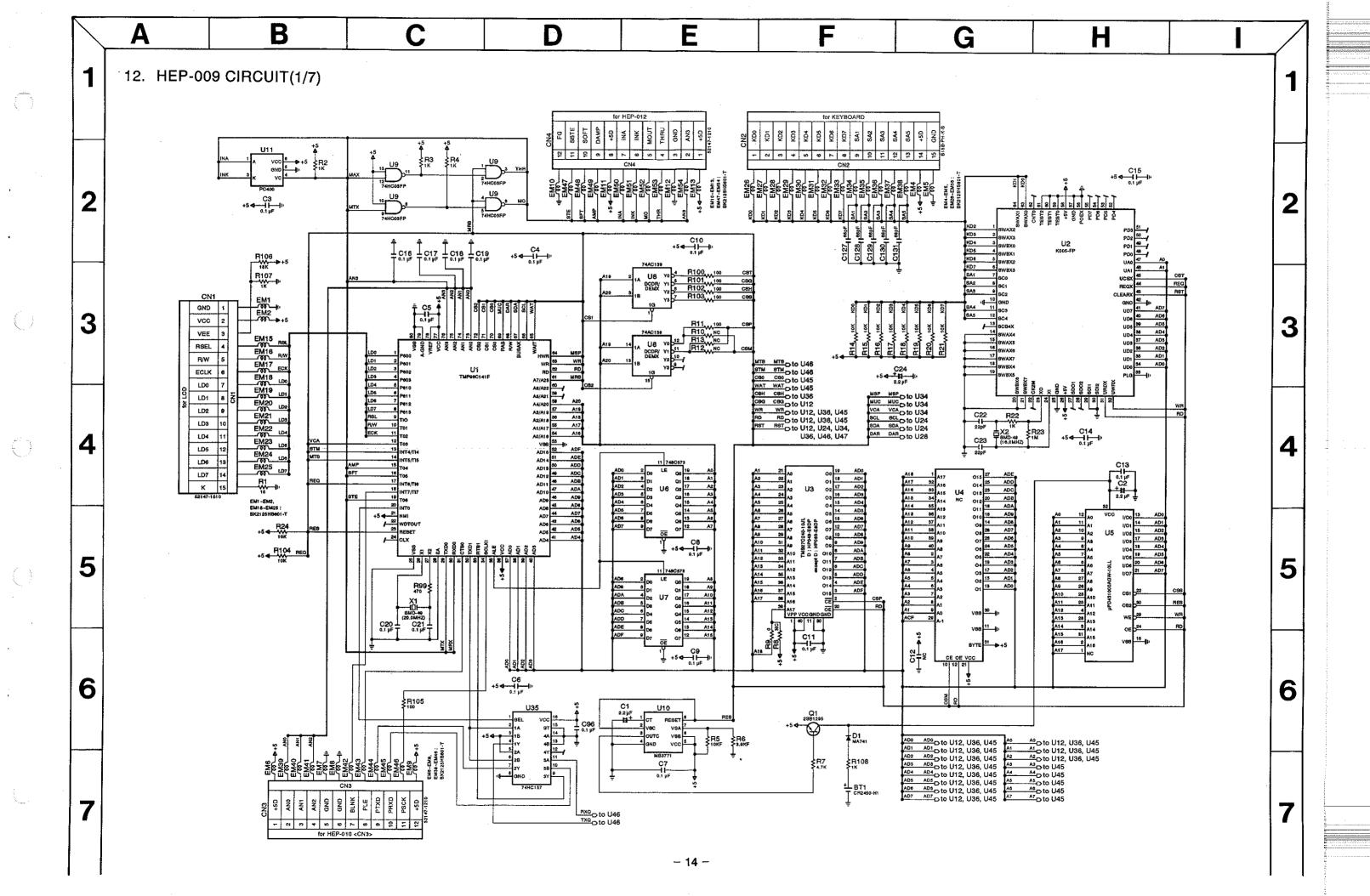


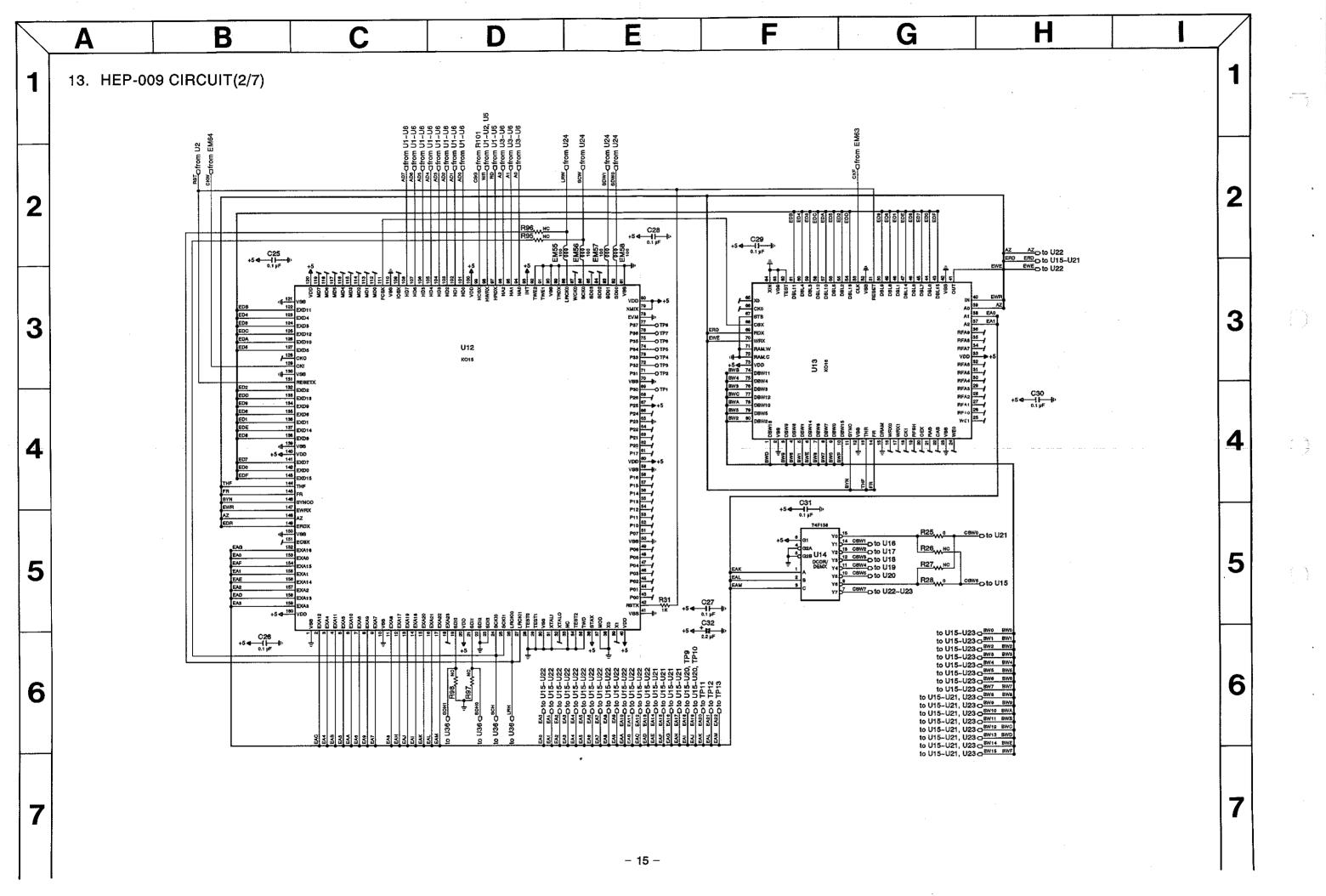


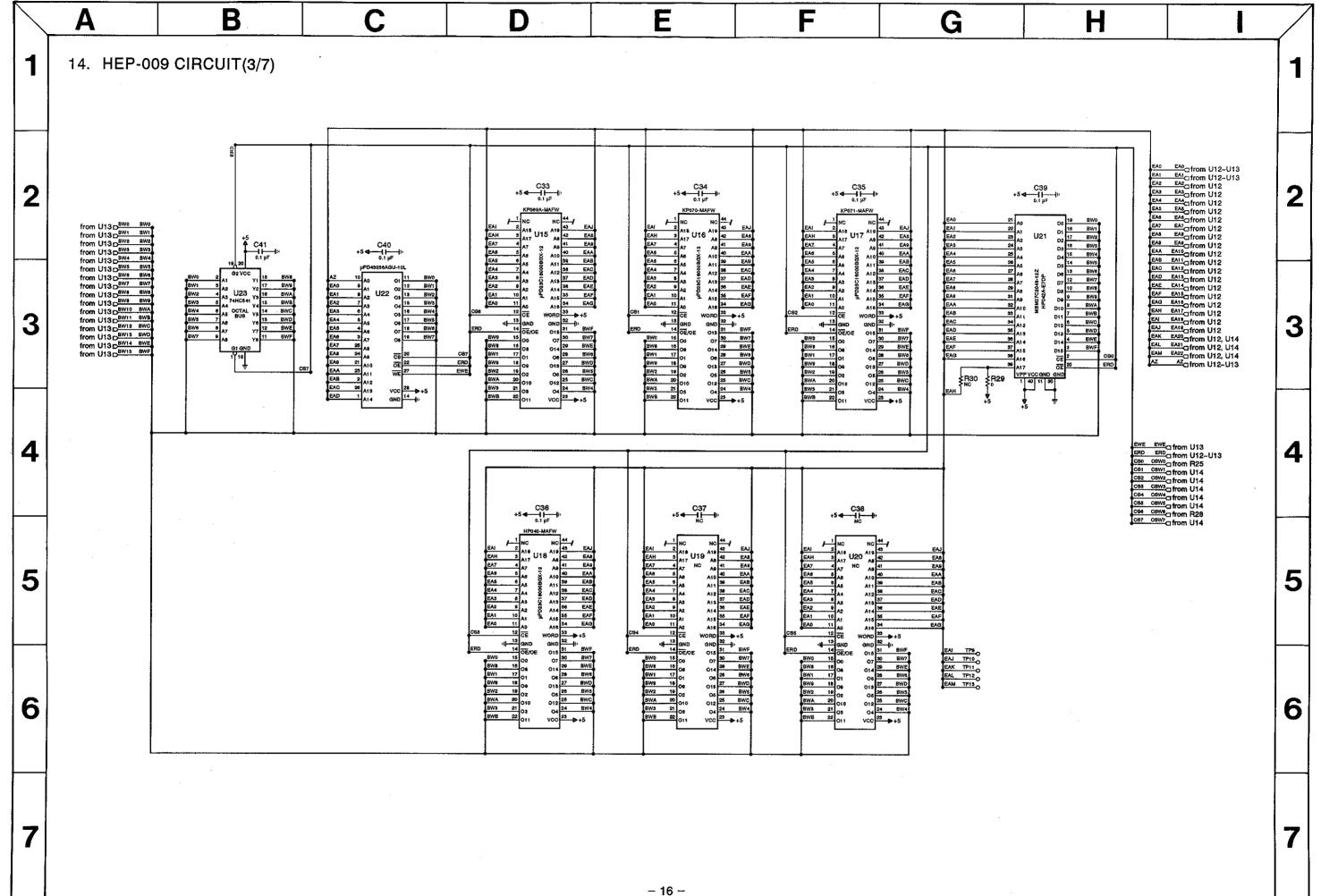


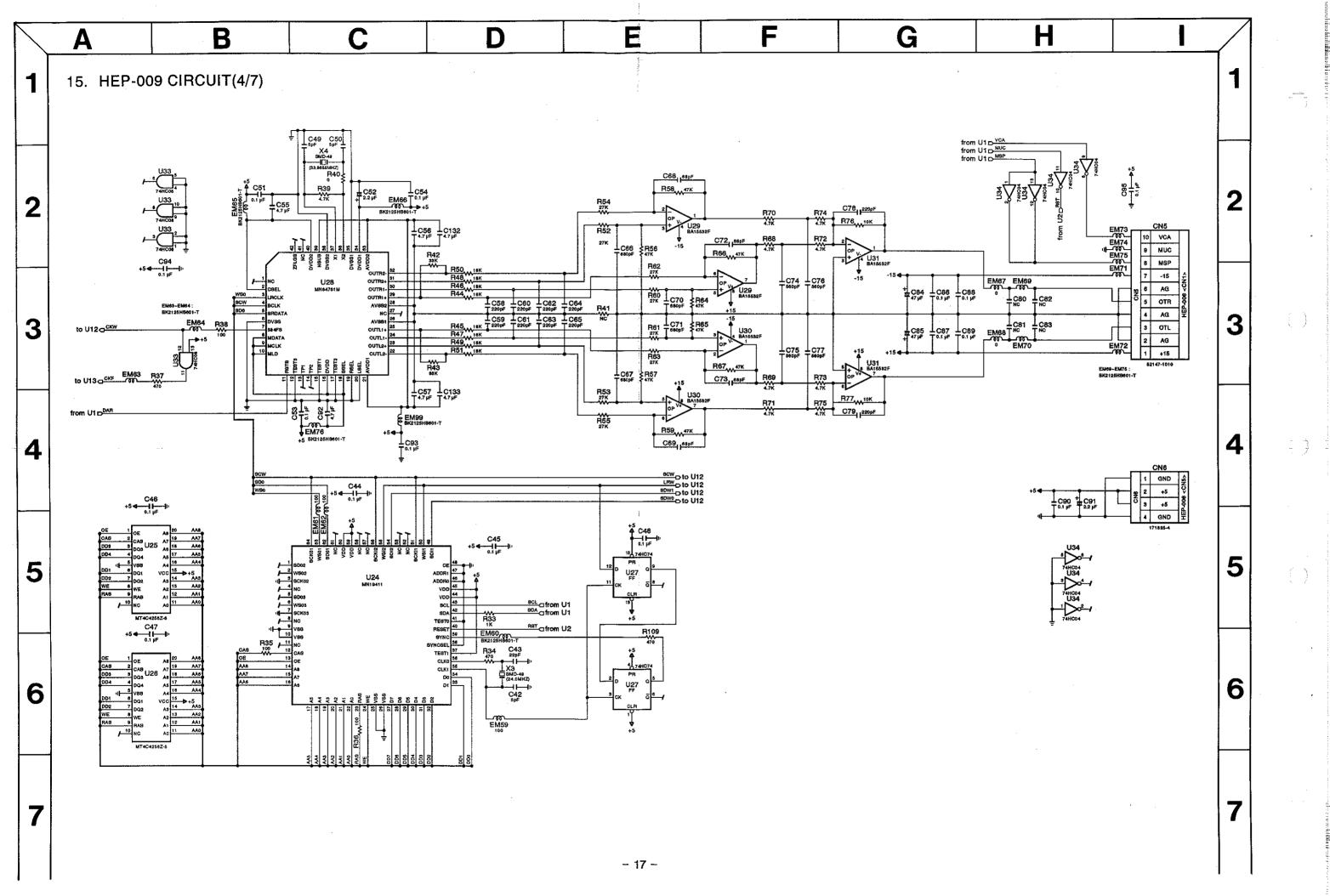


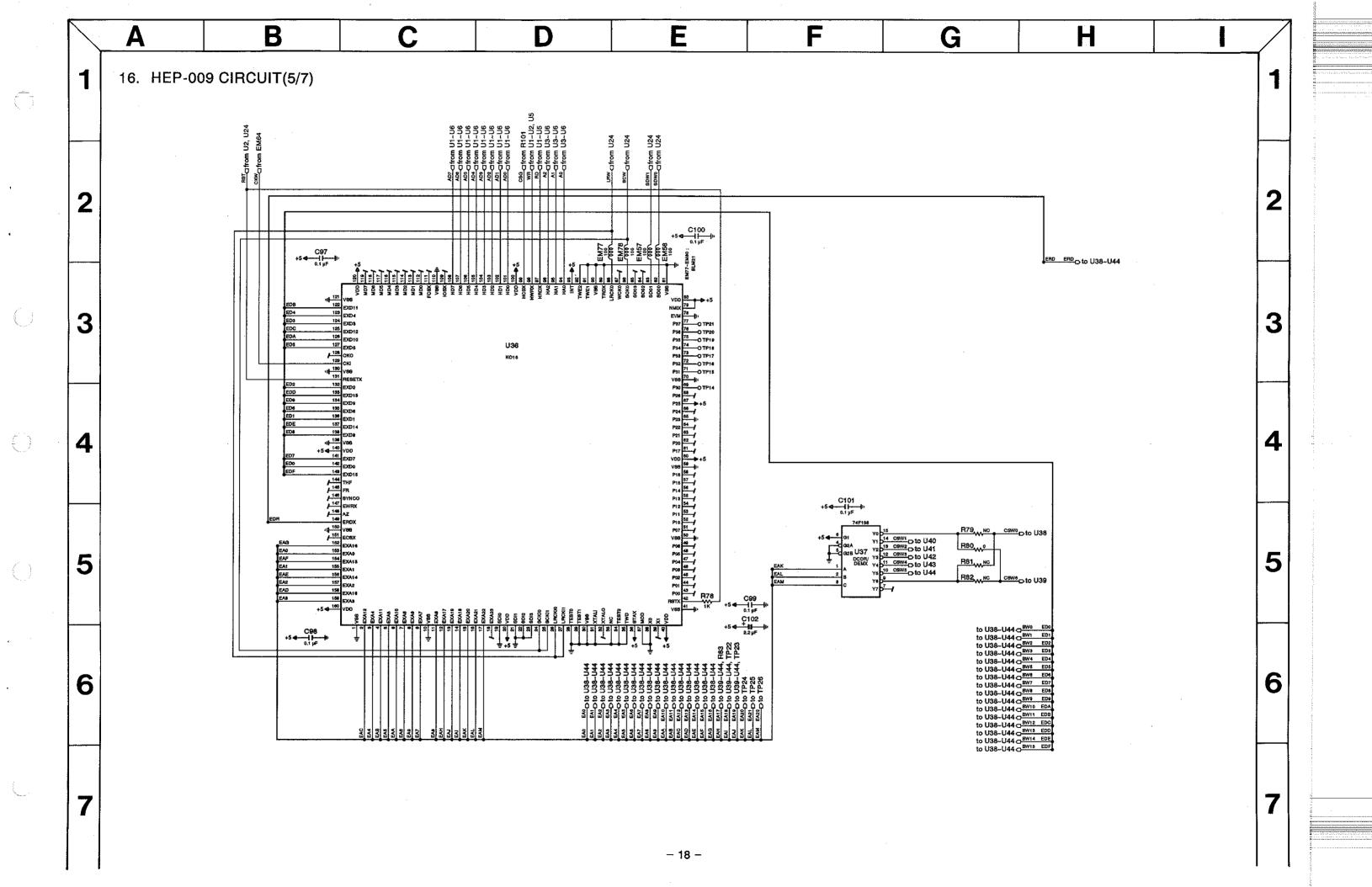


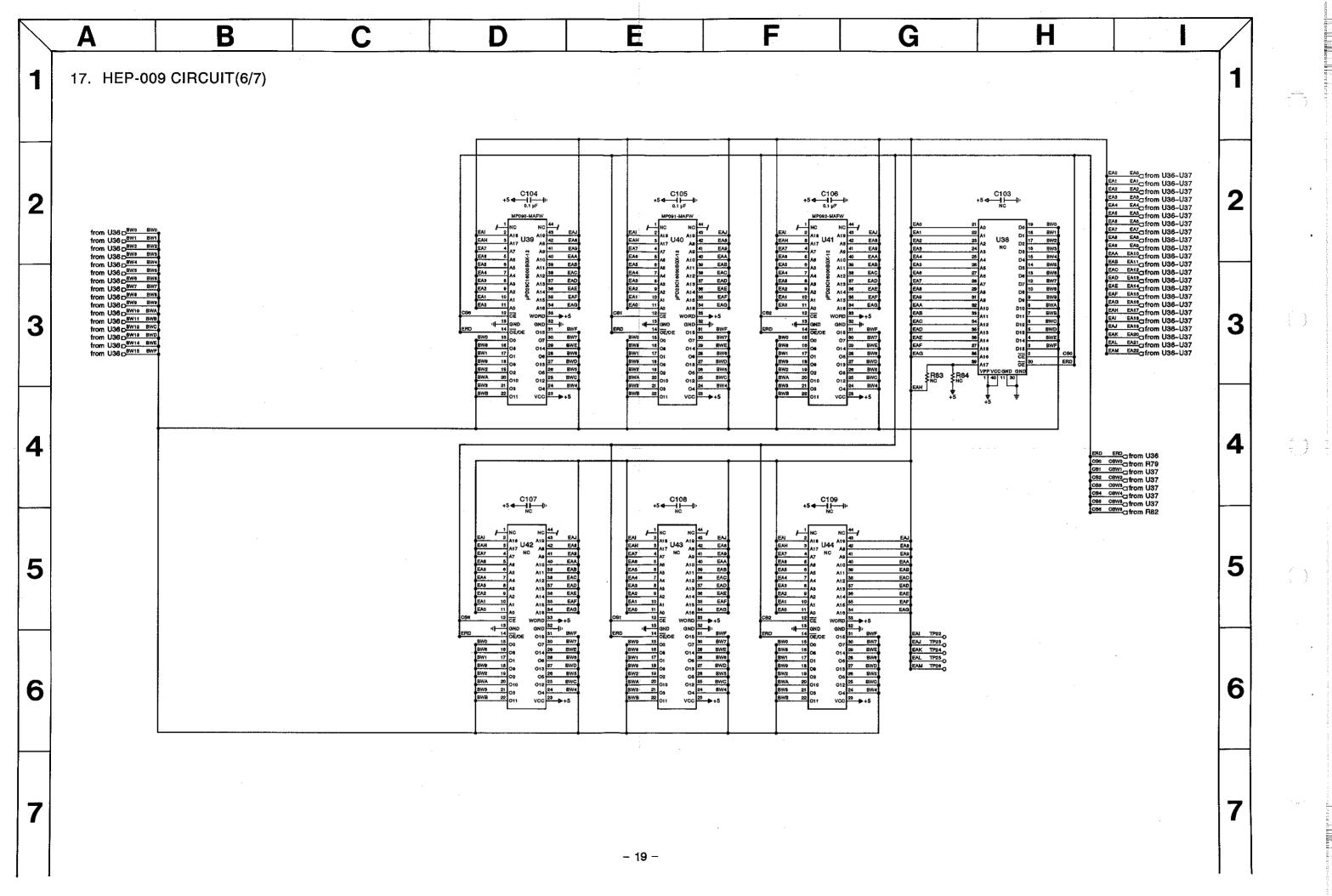


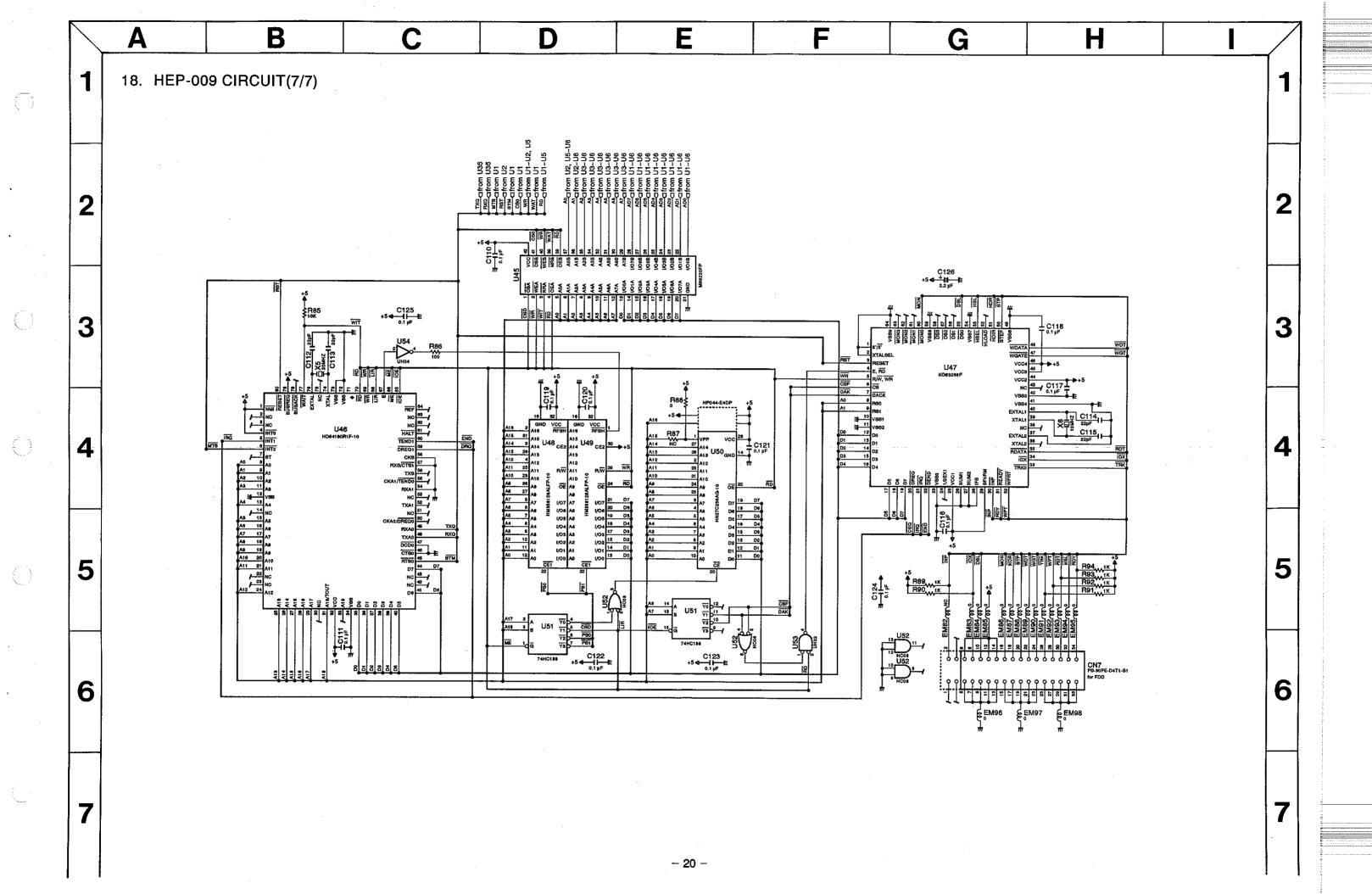


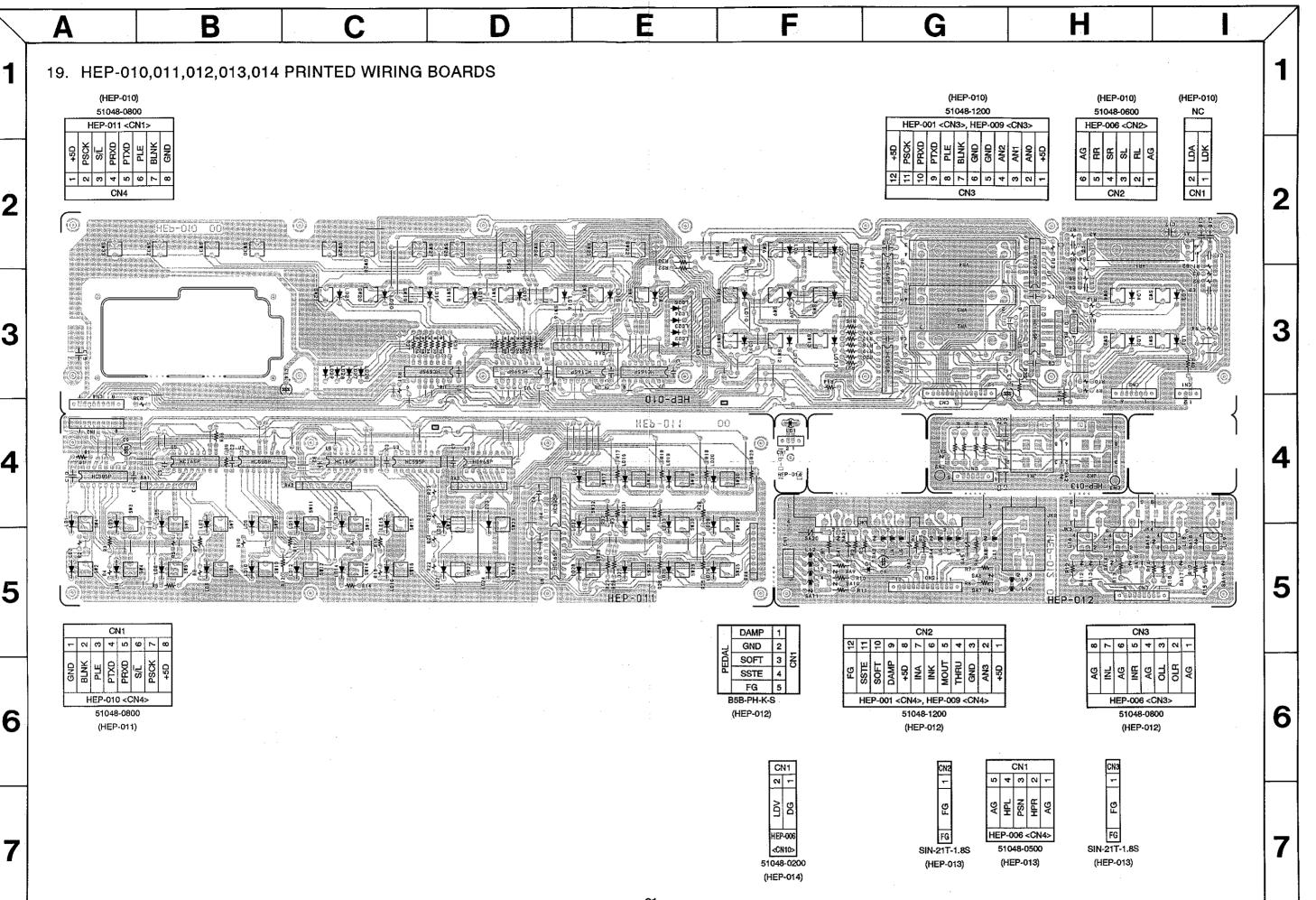


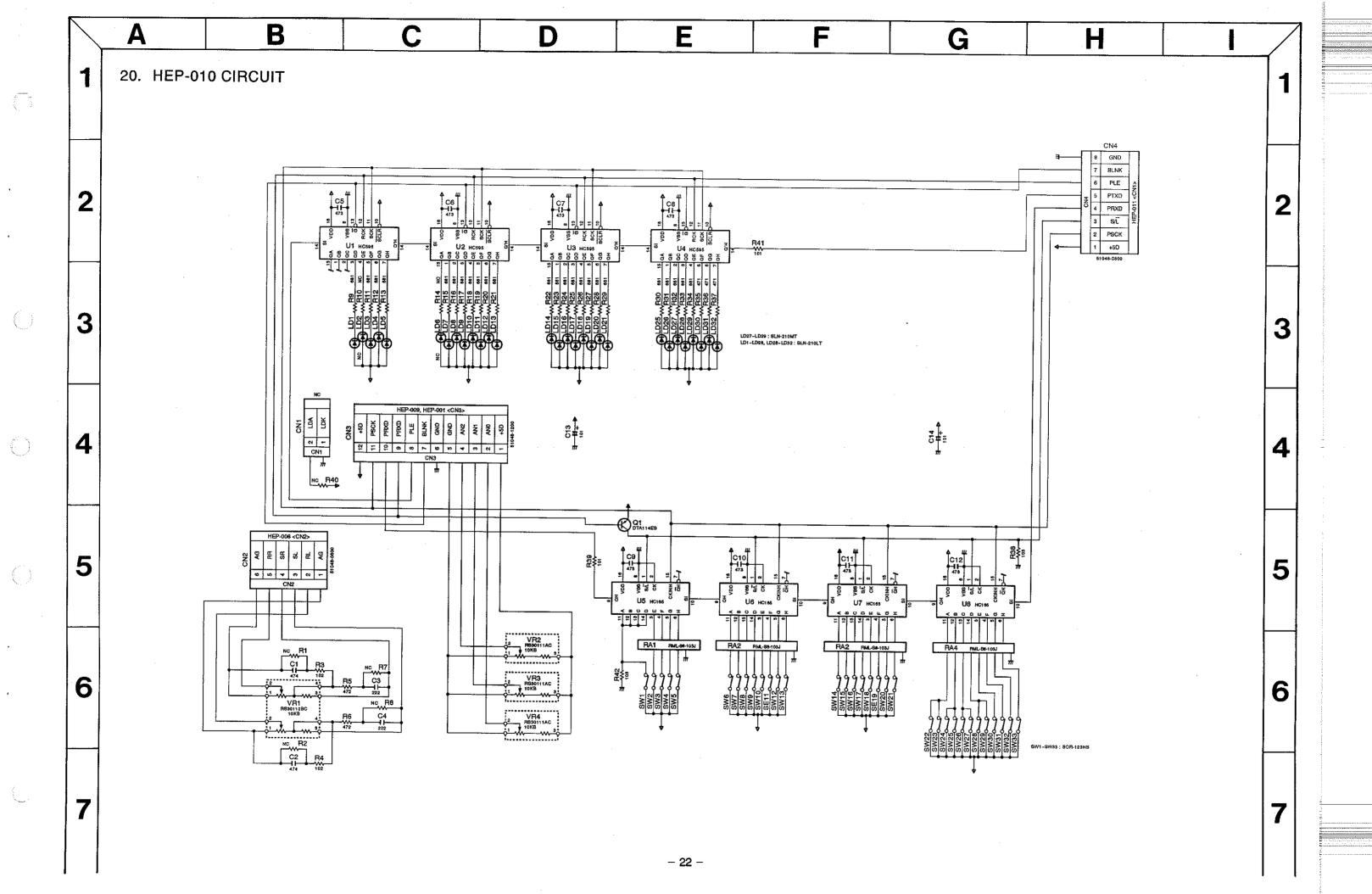


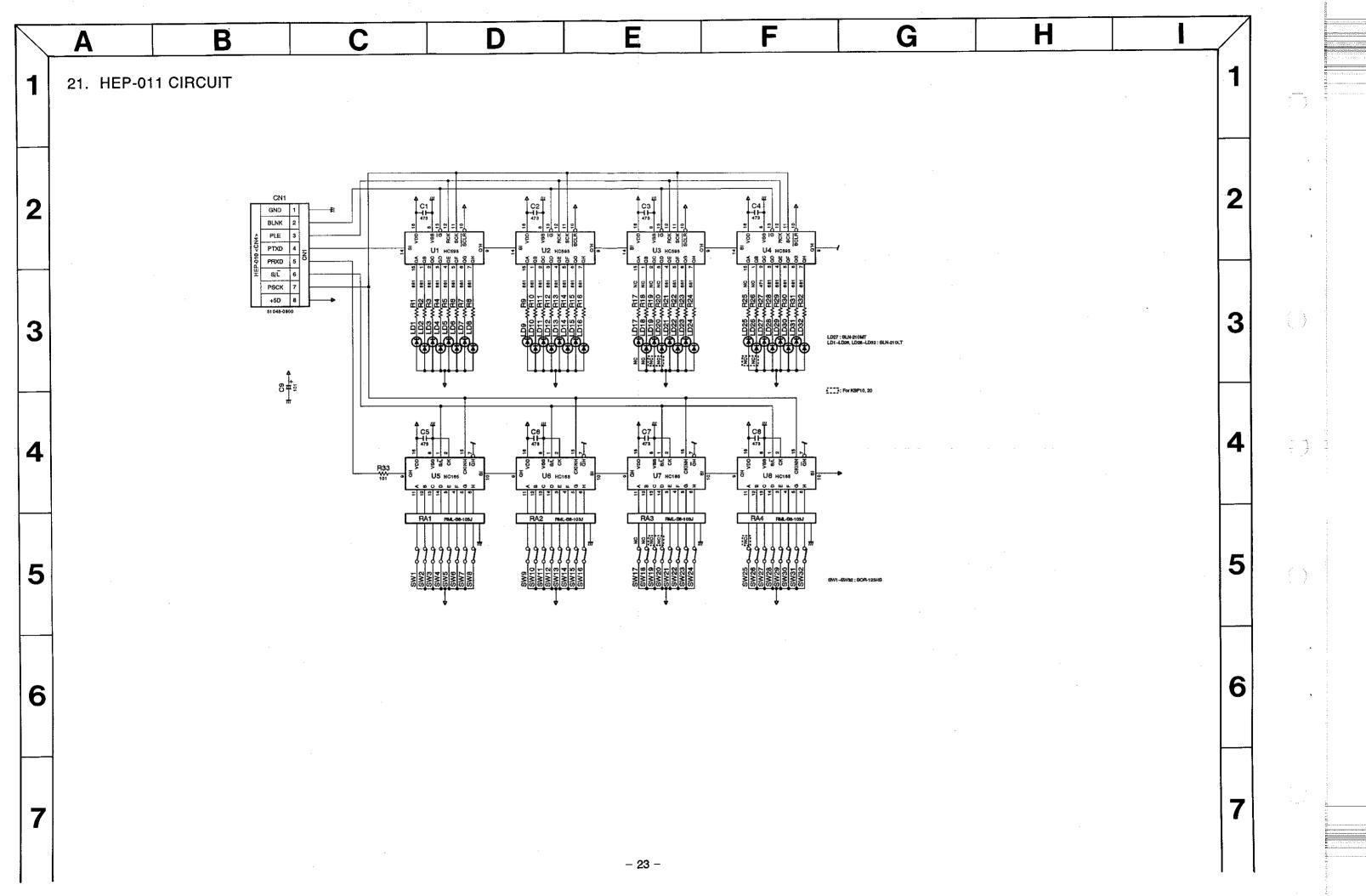


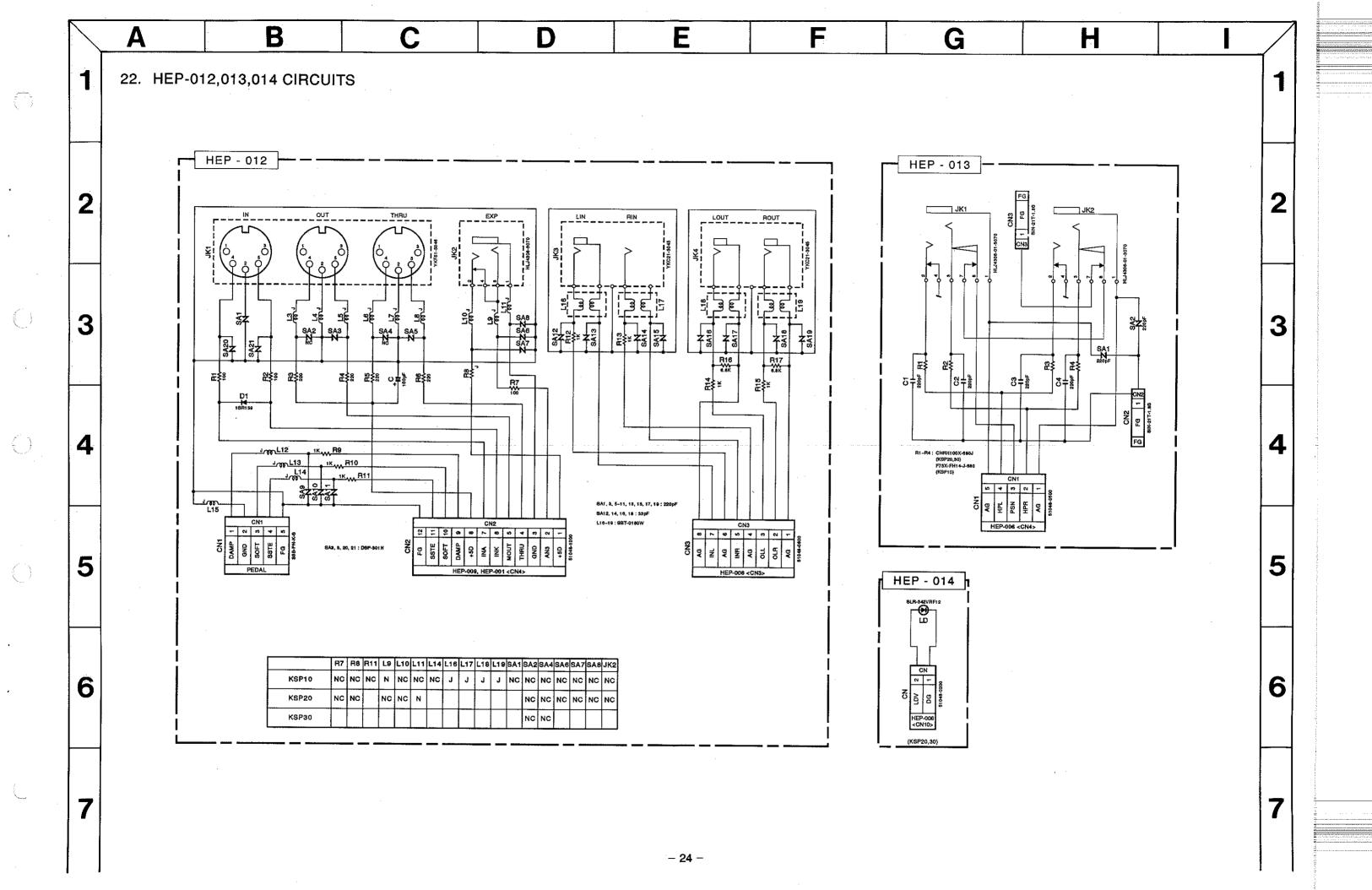


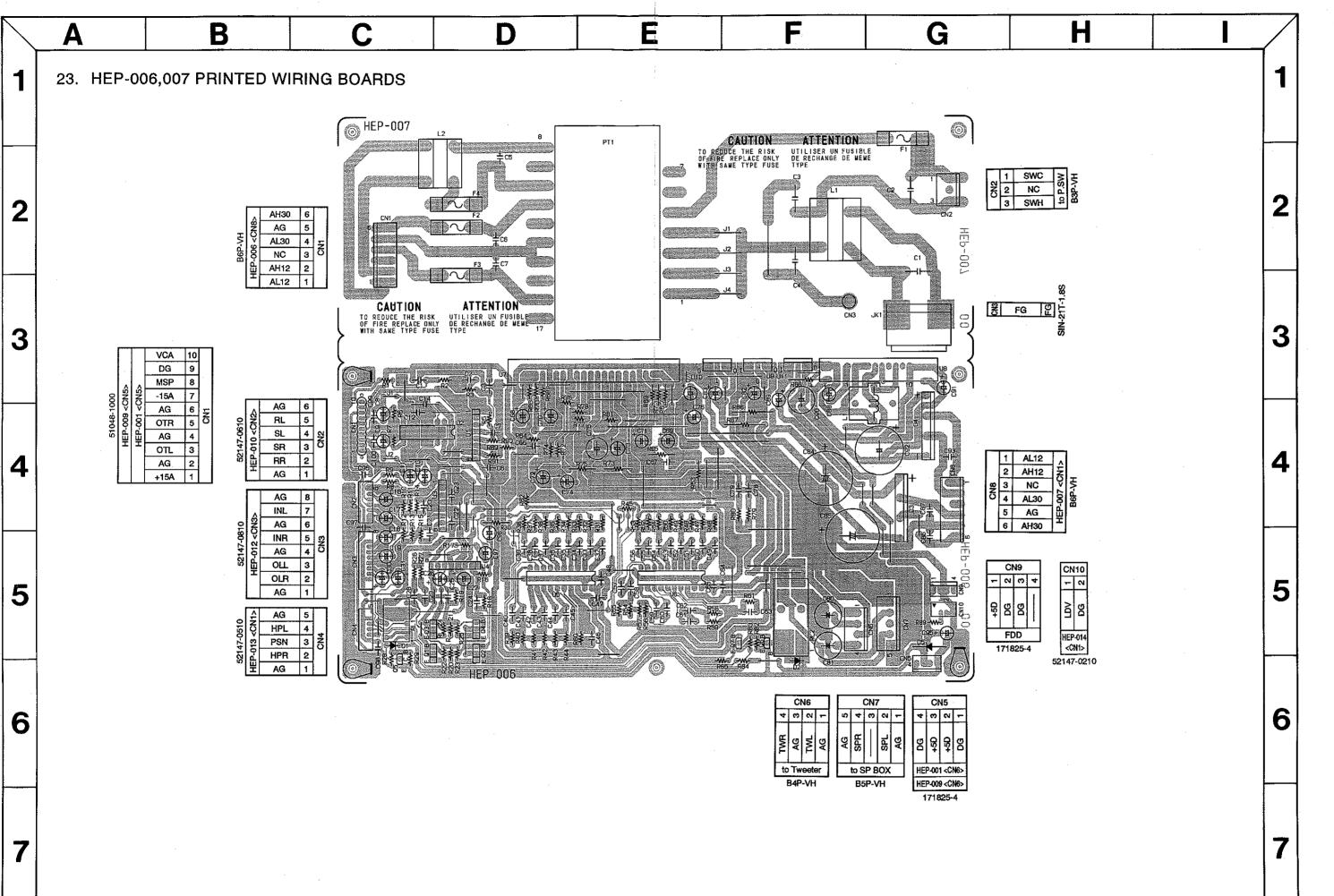


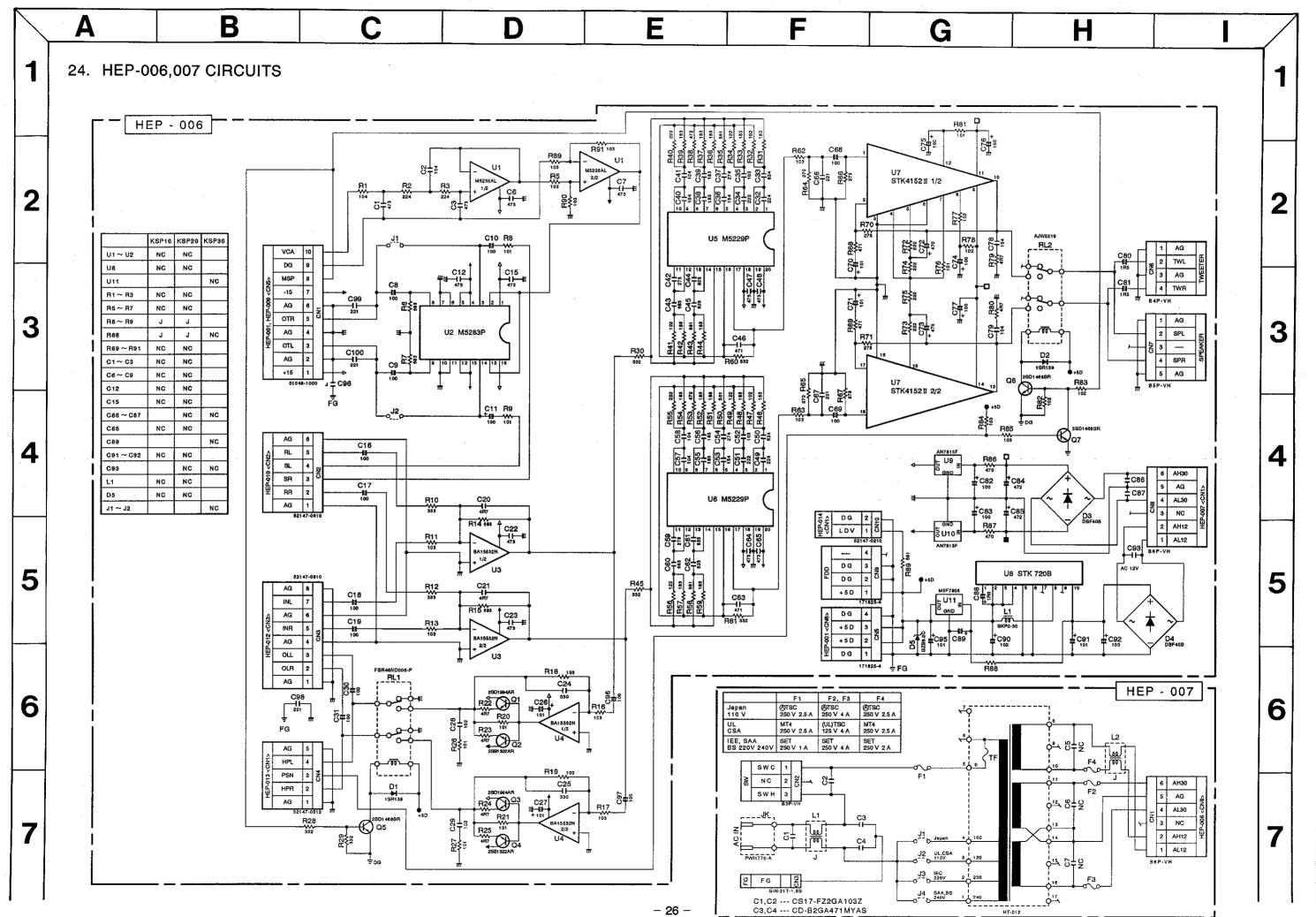


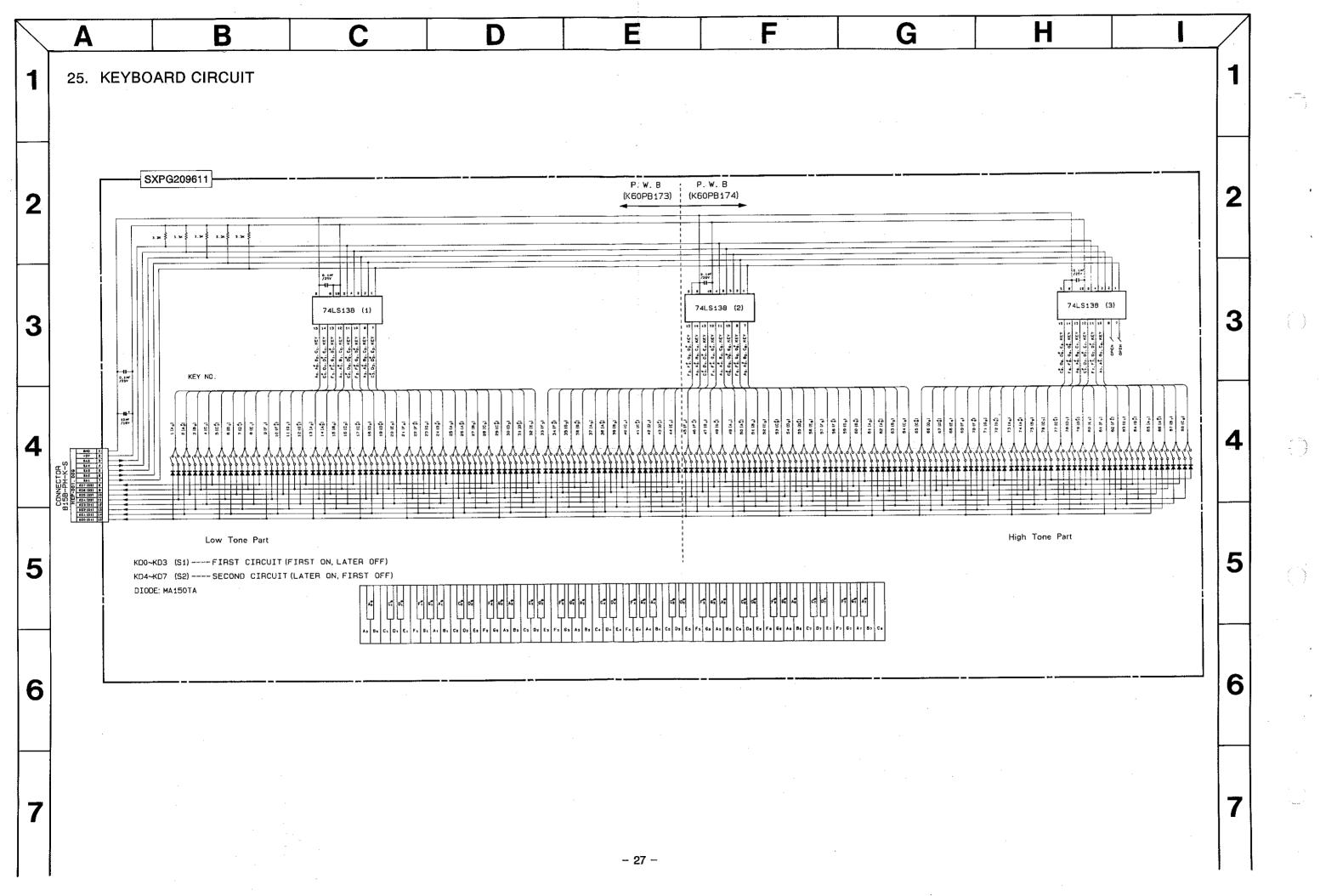






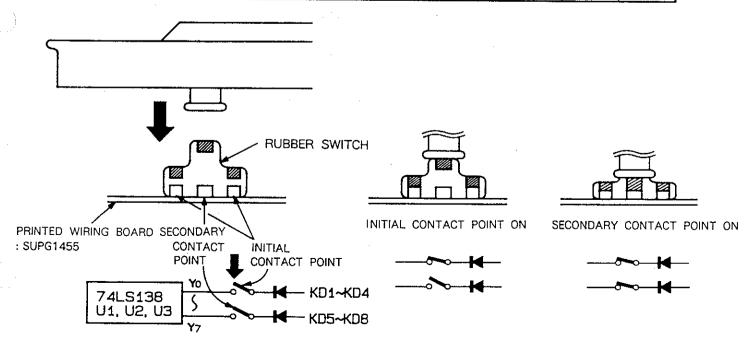






26. KEY MATRIX

			S	S1				2	
		KD1	KD2	KD3	KD4	KD5	KD6	KD7	KD8
	Y0 (15pin)	A0	A#0	В0	C1	A0	A#0	В0	C1
5	Y1 (14pin)	C#1	D1	D#1	E1	C#1	D1	D#1	E1
S) L	Y2 (13pin)	F1	F#1	G1	G#1	F1	F#1	G1	G#1
AS.	Y3 (12pin)	A1	A#1	B1	C2	A1	A # 1	B1	C2
8 	Y4 (11pin)	C#2	D2	D#2	E2	C#2	D2	D#2	E2
LS138 (BASS)	Y5 (10pin)	F2	F#2	G2	G#2	F2	F#2	G2	G#2
	Y6 (9pin)	A2	A # 2	B2	C3	A2	A#2	B2	C3
	Y7 (7pin)	C#3	D3	D#3	E3	C#3	D3	D#3	E3
	Y0	F3	F#3	G3	G#3	F3	F#3	G3	G#3
~	Y1	АЗ	A#3	В3	C4	A3	A#3	В3	C4
) i	Y2	C#4	D4	D#4	E4	C#4	D4	D#4	E4
LS138 (MID) U2	Y3	F4	F#4	G4	G#4	F4	F#4	G4	G#4
38 (Y4	A4	A # 4	B4	C5	A4	A # 4	B4	C5
LS	Y5	C#5	D5	D#5	E5	C#5	D5	D#5	E5
	Y6	F5	F#5	G5	G#5	F5	F#5	G5	G#5
	Y7	A5	A#5	B5	C6	A 5	A # 5	B5	C6
2	Y0	C#6	D6	D#6	E6	C#6	D6	D#6	E6
E C	Y1	F6	F#6	G6	G#6	F6	F#6	G6	G#6
말	Y2	A6	A#6	B6	C7	A6	A#6	B6	C7
38 (Х3	C#7	D7	D#7	E7	C # 7	D7	D#7	E7
LS138 (HIGH) U3	Y4	F7	F#7	G7	G#7	F7	F#7	G7	G#7
	Y5	A7	A # 7	B7	C8	A7	A # 7	В7	C8



27. TROUBLE SHOOTING

(1) Nothing appears on LCD display and backlight.

AC IN check (HEP-007)

Fuse check (HEP-007)

Digital 5V power check

(2) Backlight on but display is abnormal.

Connector check

LCD check

*: ONLY KSP30

Check around CPU (HEP-001, *HEP-009)

Check around TG Tone Generater HEP-001, *HEP-009)

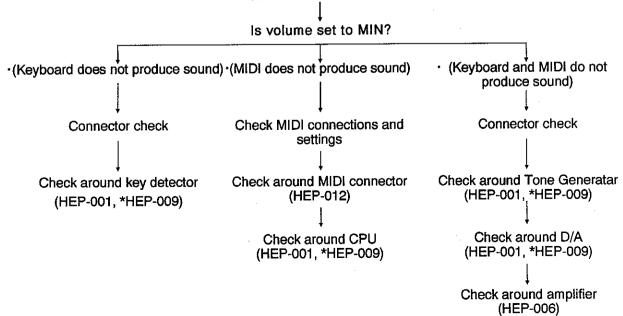
(3) Sound is abnormal.

Check around TG (HEP-001, *HEP-009)

Check around D/A (HEP-001, *HEP-009)

Check around amplifier (HEP-006)

(4) No sound produced.



28. PARTS LIST MAIN FRAME CASE

No.	Code No.	Part Name	Description	Pieces
1	926635	Arm board (left)	HPFC-0001 (For KSP10)	1
	927080	Arm board (left)	HPBE-0005(For KSP20,30)	1
2	926640	Arm board (right)	HPFC-001(For KSP10)	1
	927075	Arm board (right)	HPBE-0005(For KSP20,30)	1
3	926785	Cheek block (L)	HPFC-0019(For KSP10)	1
	927035	Cheek block (L)	HPFC-0028(For KSP20,30)	1
4	926790	Cheek block (R)	HPFC-0020(For KSP10)	1 .
	927040	Cheek block (R)	HPFC-0029(For KSP20,30)	1
5	266124	Panel ass'y	(For KSP10)	1
	266129	Panel ass'y	(For KSP20)	1
	266125	Panel ass'y	(For KSP30)	1
6	808992	S Vol cover	MPFD-0047 (Black)	4
7	808994	S Vol Knob	MPFD-0048 (Black)	4
8	802715	Knob	AFZ-0512 (Black)	1
9	926705	Music rack	HPFC-0018	1
10	926710	Music rack hinge	MPFB-0192	1
11	807755	Score stopper	MPFD-0087	1
12	926660	Top board	HPFC-0003 (For KSP10)	1
	927105	Top board	HPFC-0025 (For KSP20,30)	1
13	808995	LCD cover	HPFD-0005	1
14	808996	LED lens	HPFD-0002	2
15	808990	Tone S.W Knob	MPFD-0046 (Black)	2
	808991	"	" (Gray)	2
16	808988	"	MPFD-0045 (Black)	6
	808989	//	" (Gray)	1
17	808983	Tone S.W Knob (Dual unit)	HPFD-0001 (Black)	14
	808985	"	" (Gray)	3
	808984	// (unit)	// (Black)	4
	808986	<i>"</i>	" (Gray)	3
	808987	<i>"</i>	// (Red)	4
19	926695	Fixing metal for panel (left)	HPFB-0007	1
20	926700	Fixing metal for panel (right)	HPFB-0007	1
21	809163	LCD	DMC16204-LY-9	1
22	809172	Keyboard unit ass'y	SK38809A(88Key)	1
23	809164	Power transformer	HT-012	1
24	926735	Panel stopper	HPFB-0009	2
25	926760	Fixing metal for P.W.B. (left)	HPFB-0011	1
26	926765	" (right)	HPFB-0011	1

No.	Code No.	Part Name	Description	Pieces
27	928215	Housing stopper	HPFB-0030	1
28	926720	Connector panel	EPFB-1234	1
29	926685	Rear Panel ass'y	HPBG-0001 (KSP10)	1
	927125	Rear Panel ass'y	MPBG-0003 (KSP30)	1
	927850	Rear Panel ass'y	MPBG-0006 (KSP20)	1
30	808999	Front Panel	HPFD-0004	1
31	926715	Shelf board	HPFC-0005 (For KSP10)	1
	927140	Shelf board	HPFC-0027 (For KSP20,30)	1
32	926725	Key slip ass'y	HPFC-0006 (For KSP10)	1
	927115	Key slip ass'y	HPFC-0026 (For KSP20,30)	1
33	926750	Speaker box ass'y	HPBE-0002	1
34	926675	Hook (left)	MPFB-0094	1
	926680	Hook (right)	· //	1

STAND

No.	Code No.	Part Name	Description	Pieces
72	926985	Side board ass'y (left)	HPBE-0003	1
35	926990	Side board ass'y (right)	HPBE-0003	1
36	809153	Toe block (left)	MPFD-0082	1
37	809154	Toe block (right)	MPFD-0082	1
38	926805	Pedal block metal fix	EPFB-1244	2
39	926810	Stand fix (left)	HPFB-0016	1
40	926815	Stand fix (right)	HPFB-0016	1 1
41	926820	SP BOX fix	HPFB-0017	2
42	809155	Cord clamp	NK-2N (Black)	1
43	809156	Cord clamp	DKN-5 (Black)	2
44	927000	Back board	MPFC-0214	1
45	926995	Pedal block ass'y	HPBE-0004	1
46	926875	Pedal cable	HPBB-0007	1
47	926835	Back board Mount	MPFB-0195	2

PEDAL

NI -	O de Ne	Dort Nome	Description		Pieces	
No.	Code No.	Part Name	Description	KSP10	KSP20	KSP30
48	926980	Pedal adjuster	EPFB-1254	1	1	1
49		Pedal chassis		1	1	1
50		Pedal		2	2	3
51		Pedal spring		2	2	3
52		Rubber switch		2	2	3
53	<u> </u>	Cloth		2	2	3
54		Pedal holder		2	2	3
55		Pedal stopper		2	2	3
56		Pedal P.W.B.		1	1	1

ELECTRIC PARTS

No.	Code No.	Part Name	Description	VSD10	Pieces KSP20	Kebsy
18	802769	Power switch	SDDLD1	1	1	1
21	809163	LCD	DMC16204-LY-9	1	1	1
57	809164	Transformer	HT-012 (All markets)	1	1	1
58	926845	Power switch housing	HPBB-0001	1		
	927005	"	HPBB-0017		1	1
59	926850	AC housing	HPBB-0002	1	1	1
60	926856	SP housing (Sp BOX)	HPBB-0003A	1	1	1
61	926860	" (tweeter)	HPBB-0004	1	1	• 1
62	926865	DC housing	HPBB-0005	1		
63	927010	ıı'	HPBB-0018		1	1
64	926870	Keyboard housing	HPBB-0006	1		
65	927021	<i>II</i>	HPBB-0020A		1	1
66	926875	Pedal housing	HPBB-0007	1	1 .	1
67	809165	Speaker (tweeter)	HS07-002	2	2	2
68	808126	Speaker (woofer)	985-039834-002	2	2	2
	808702	Lithium Battery	CR2450	1	1	1
69	808388	FDD	FD-235HF-3284			1
70	809255	FDD housing	HPBB-0028			1
71	927015	FDD DC housing	HPBB-0019			1

HEP-001(1), (2)ASS'Y

No.	Code No.	Part Name	Description	Pie KSP10	ces KSP20
	711086	Pin housing	171825-4	1	1
	803033	IC socket	DICF-40CE	2	2
	803426	Connector	B15B-PH-K-S	1	1
	806000	Wire trap	52147-1210	2	2
	806001	//	52147-1510	1	1
	807036	//	52147-1010	1	1
	808939	Battery holder	24H-1	1	1
	808941	Capacitor	MV16VC47(M)F55	2	2
	808942	Chip resister	MCR18EZHJ150	1	1
	808943	//	RK73H2ATD1002F	1	1
	808944	//	RK73H2ATD3901F	1	1
	809000	//	MCR10EZHJ0R0	16	16
	809025	//	MCR10EZHJ101	14	14
	809033	//	MCR10EZHJ471	4	4
	809037	//	MCR10EZHJ102	8	8
	809045	//	MCR10EZHJ472	10	10
	809049	//	MCR10EZHJ103	12	12
	809052	//	MCR10EZHJ183	9	9
	809054	//	MCR10EZHJ273	8	8

No.	Code No.	Part Name	Description		ces
140.	Oude No.	I all Italiic	Description	KSP10	KSP20
	809055	Chip resister	MCR10EZHJ333	2	2
	809057	"	MCR10EZHJ473	8	8
	809073	"	MCR10EZHJ105	1	1
	808946	Chip ceramic capacitor	TMK432F475Z	6	6
	809074	"	MCH215SL050JK	3	3
	809079	"	″ 220JK	5	5
	809085	//	" 680JK	13	13
	809091	"	″ 221JK	10	10
	809096	//	″ 561JK	4	4
	809099	//	MCH212F104ZK	47	47
	809100	//	EMK316F225Z	6	6
	808945	Chip Bead	BK2125HS601-T	52	52

HEP-009(1), (2)ASS'Y

No.	Code No.	Part Name	Description	Pieces KSP30
	711086	Pin housing	171825-4	1
	800224	IC socket	DICF-28C	1
	803033	//	DICF-40CE	2
	803426	Connector	B15B-PH-K-S	1
	803601	//	PS-34PE-D4T1-B1	1
	806000	Wire trap	52147-1210	2
	806001	//	52147-1510	1
	807036	//	52147-1010	1
	808939	Battery holder	24H-1	1
	808941	Capacitor	MV16VC47(M)F55	1
	808942	Chip resistor	MCR18EZHJ150	1
	808943	//	RK73H2ATD1002F	1
	808944	<i>!!</i>	RK73H2ATD3901F	1
	809000	"	MCR10EZHJ0R0	25
	809025	"	MCR10EZHJ101	21
	809033	//	MCR10EZHJ471	5
	809037	"	MCR10EZHJ102	15
	809045	//	MCR10EZHJ472	10
	809049	//	MCR10EZHJ103	13
	809052	//	MCR10EZHJ183	9
	809054	//	MCR10EZHJ273	8
	809055	//	MCR10EZHJ333	2
	809057	//	MCR10EZHJ473	8
	809073	//	MCR10EZHJ105	1
	808946	Chip ceramic capacitor	TMK432F475Z	6
	809074	//	MCH215SL050JK	3

No.	Code No.	Part Name	Description	Pieces KSP30
	809079	Chip ceramic capacitor	MCH215SL220JK	9
	809085	"	// 680JK	13
	809091	"	// 221JK	10
	809096	"	" 561JK	4
	809099	"	MCH212F104ZK	66
	809100	"	EMK316F225Z	8
	808945	Chip Bead	BK2125HS601-T	65

HEP-010~013(1), 010~014(2), 010~014(3) ASS'Y

No.	Code No.	Part Name	Description	VCD10	Pieces	KSP30
	802050	Module resistor	RML S8-103J	7	7	7
	808978	//	RML S6-103J	1	1	1
	802905	Surge protector	DSP-301N	4	4	4
	804572	Connector	B5B-PH-K-S	1	1	1
	804643	Slide VR	RS30111AC 10KB	3	3	3
	805736	MIDI connector	YKF51-5046	1	1	1
	805764	Coil	SBT-0160W			4
	806005	Cable holder	51048-1200	2	2	2
	806241	"	51048-0600	1	1	1
	806242	"	51048-0800	3	3	3
	808981	. "	51048-0500	1	1	1
	809278	//	51048-0200		1	1
	808976	Slide VR	RS30112BC 10KB	1	1	1
	808979	Pin Jack	YKC21-3045	2	2	2
	808980	Jack	HLJ4306-01-3070	2	2	3
	808982	Metal oxide film resistor	1W 680 CRH100X	4	4	4
	809177	J Read SMV2J-C	8X180P2.0-S5	1	1	1
	808583	"	8X100P2.0-S5	1	1	
	809299	//	12X190P2.0-S5			1
	806988	//	12X130P2.0-S5	1		
	809301	//	12X350P2.0-\$5	1		1
	809180	<i>"</i>	12X390P2.0-S5	1		
	809302	"	6X760P2.0-S5		1	1
	909182	//	6X710P2.0-S5	1		
	809303	//	5X850P2.0-S5		1	1
;	809183	<i>"</i>	5X820P2.0-S5	1		
	809304	<i>"</i>	2X640P2.0-S5		1	1
	809333	//	12X470P2.0-S5		1	
	708825	Carbon film resistor	AT1/4WJ101	2	2	3
	708829	//	AT1/4WJ221	4	4	4
	708837	"	AT1/4WJ102	6	6	7

No.	Code No.	Part Name	Description	Pieces KSP10 KSP20 KSP3 2 2 2 3 3 3 3 4 4 4 4 49 49 51 2 2 2 2 2 2 2 2 2 60 60 63 49 49 51 4 4 4 1 1 1 4 4 4 14 14 19		
190.	Code No.	T att ivalle	Description	KSP10	KSP20	KSP30
	708847	Carbon film resistor	AT/4WJ682	2	2	2
	801037	11	ATR20J101	3	3	3
	801045	"	ATR20J471	4	4	4
	801047	//	ATR20J681	49	49	51
	801049	<i>II</i>	ATR20J102	2	2	2
_	801057	"	ATR20J472	2	2	2
	801061	"	ATR20J103	2	2	2
	806002	Tact switch	SOR-123HS	60	60	63
	808493	LED	SLN-210LTT12(P, N)	49	49	51
	808975	//	SLN-210MT	4	4	4
	809277	"	SLR-342VRF12		1	1
	808955	Ceramic capacitor	ATUP050SL330J	4	4	4
	808956	<i>"</i>	ATUP050B221K	14	14	19
	808958	"	ATEP050F473Z	16	16	16
	808977	Electrolytic capacitor	RC2 6.3V 100 μ F	4	4	4
	809105	Film capacitor	ECQ-B1H 222JF	2	2	2
	809133	"	ECQ-V1H 474JM	2	2	2

HEP-006, 007(1)~(10)ASS'Y

No.	Code No.	Part Name	Description	(1)	(2)	(3)	(4)	Pje	ce:	(7)	(8)	(9)	(10)
	711086	Pin housing	171825-4	1	1	1	1			$\overline{}$		2	Г
	802906	Connector base pin	B4P-VH	1	1	1	1	1	1	1	1	1	1
	802907	//	B5P-VH	1	1	1	1	1	1	1	1	1	1
	802908	11	B6P-VH	2	2	2	2	2	2	2	2	2	2
	803428	//	B3P-VH	1	1	1	1	1	1	1	1	1	1
	804134	Ceramic	CS17FZ2GA103ZYAS	2	2	2	2	1	2	2	2	2	2
	808953	Relay	AJW5219	1	1	1	1	1	1	1	1	1	1
	805829	Relay	FBR46ND005-P	1	1	1	1	1	1	1	1	1	1
	806658	Metal oxide film resistor	2W 470 CRH200FH24	2	2	2	2	2	2	2	2	2	2
	806664	Wire trap	52147-0810	1	1	1	1	1	1	1	1	1	1
	807645	<i>"</i>	52147-0610	1	1	1	1	1	1	1	1	1	1
	808966	"	52147-0510	1	1	1	1	1	1	1	1	1	1
	809280	//	52147-0210	1					1	1	1	1	1
	806774	Cable holder	51048-1000	1	1	1	1	1	1	1	1	1	1
	80808	Earth pin	SNE75	3	3	3	3	3	3	3	3	3	3
	808971	Fuse	(A)TSC 250V 2.5A	2					2			2	
	808500	Fuse	(A)TSC 4A	2			2		2			2	
	804604	"	UL/CS MT4 2A 250V		1		2			1			
	808660	<i>"</i>	(UL) TSC 4A 125V		2					2			
	809174	"	UL/CS MT4 2.5A 250V		1					1			
	803628	"	NE SET 1A 250V			1		1			1		1

No.	Code No.	Part Name	Description	(1)	(2)	(3)	(4)	Pie (5	ce (6)	s (7	(8)	(9)	(10
	804605	Fuse	NE SET 2A 250V	Τ	<u> </u>	1	1	1	٦-	ľ	1		1
	809175	<i>"</i>	NE SET 4A 250V			1		,			1		1
	808965	AC inlet	M17 70-A(INL-3)	1	1	1	1	1	1	1	1	1	1
	809145	Heat sink	HPFB-0015	1	1	1	1	1	1	1	1	1	1
	809281	Insulation sheet	HPFZ-0014	1	1	1	1	1	1	1	1	1	1
	809305	Coil	SKP2-50						1	1	1	1	1
	808968	Electrolytic capacitor	35V4700MF	2	2	2	2	2	2	2	2	2	2
	808967	"	16V6800MF	1	1	1	1	1					
	809173	11	BP50V1R5M	2	2	2	2	1	2	2	2	2	2
	809246	"	16V10000MF						1	1.	1	1	1
	707439	"	50V 1MF(RT)		Γ			Г	1	1	1	1	1
	707415	"	16V 10MF(")	1	1	1	1	1					
	800660	<i>"</i>	50V 10MF(")	5	5	5	5	5	5	5	5	5	5
	800661	"	50V 47MF(")	2	2	2	2	2	2	2	2	2	2
	802799	//	16V 10MF(BP)	12	12	12	12	12	14	14	14		14
	804991	. "	10V 100 RE210V101	3	3	3	3	3	3	3	3		3
	805992	"	6.3V 1000MF(RT)						1	1	1	1	1
	808969	"	50V 100MF	1	1	1	1	1	1	1	1	1	1
	808970		16V 100MF	2	2	2	2	2	3	3	3	3	3
	801045	Carbon resistor	ATR20J471	2	2	2	2	2	2	2	2	2	2
	801046	//	ATR20J561	2	4	4	4	4	2	2	2	2	2
	801047	"	ATR20J681	3	2	2	2	2	3	3	3	3	3
	801049	"	ATR20J102	4	2	2	2	2	4	4	4	4	4
	801050	"	ATR20J122	4	2	2	2	2	4	4	4	4	4
	801052	//	ATR20J182		4	4	4	4					
	801053	"	ATR20J222	2	2	2	2	2	2	2	2	2	2
	801054	"	ATR20J272	4					2	2	2	2	2
	801055	"	ATR20J332	6	6	6	6	6	6	6	6	6	6
	801057	"	ATR20J472	2	2	2	2	2	2	2	2	2	2
	801061	"	ATR20J103	10	10	10	10	10	14	14	14	14	14
	801064	"	ATR20J183	14	14	14	14	14	14	14	14	14	14
	801066	<i>"</i>	ATR20J273	4	4	4	4	4	4	4	4	4	4
	801067	"	ATR20J333	2	2	2	2	2	2	2	2	2	2
	801071	//	ATR20J683	2	2	2	2	2	4	4	4	4	4
	801073	//	ATR20J104						1	1	1	1	1
	801077	//	ATR20J224		_				2	2	2	2	2
	808954	Ceramic capacitor	ATUP050SL4R7K	2	2	2	2	2	2	2	2	2	2
	808955	11	ATUP050SL330J	2	2	2	2	2	2	2	2	2	2
	808956	//	ATUP050B221K	6	6	6	6	6	6	6	6	6	6
	808957	"	ATUP050B471K	2	2	2	2	2	2	2	2	2	2
	808958	"	ATEP050F473Z	6	6	6	6	6	10	10	10	10	10
		L	1	1						. !			ź

No.	Code No.	Part Name	Description	Pieces (1)[(2)[(3)](4)[(5)](6)[(7)](8)[(9)[(1)]									(10)
	808963	Ceramic capacitor	CD11-B2GA471MYAS			2	2	2	2	2	2	2	2
	808959	Noncombustible resistor	F20-4R7J	6	6	6	6	6	6	6	6	6	6
	808960	"	F20-101J	6	6	6	6	6	8	8	8	8	8
	808961	"	F20-102J	2	2	2	2	2	2	2	2	2	2
	808962	"	F20-222J	4	4	4	4	4	4	4	4	4	4
	809101	Film capacitor	ECQ-B1H 102JF	2	2	2	2	2	2	2	2	2	2
	809103	"	ECQ-B1H 152JF		2	2	2	2					
	809105	11	ECQ-B1H 222JF	2					2	2	2	2	2
	809113	. 11	ECQ-B1H 103JF	2	2	2	2	2	2	2	2	2	2
	809116	<i>II</i>	ECQ-B1H 183JF	4	4	4	4	4	4	4	4	4	4
	809118	<i>II</i>	ECQ-V1H 273JM	2	2	2	2	2	2	2	2	2	2
	809121	11	ECQ-V1H 473JM						2	2	2	2	2
	809123	<i>"</i>	ECQ-V1H 683JM	2	2	2	2	2	2	2	2	2	2
	809124	"	ECQ-V1H 823JM	4	4	4	4	4	4	4.	4	4	4
	809125	//	ECQ-V1H 104JM	6	6	6	6	6	7	7	7	7	7
	809127	//	ECQ-V1H 154JM	2	2	2	2	2	2	2	2	2	2
	809129	//	ECQ-V1H 224JM	2	2	2	2	2	2	2	2	2	2
	809130	//	ECQ-V1H 274JM	2	2	2	2	2	2	2	2	2	2
	809136	"	ECQ-V1H 824JM	2	2	2	2	2	2	2	2	2	2
	808964	Fuse clip	H-0060	8	8	8	8	8	8	8	8	8	8

