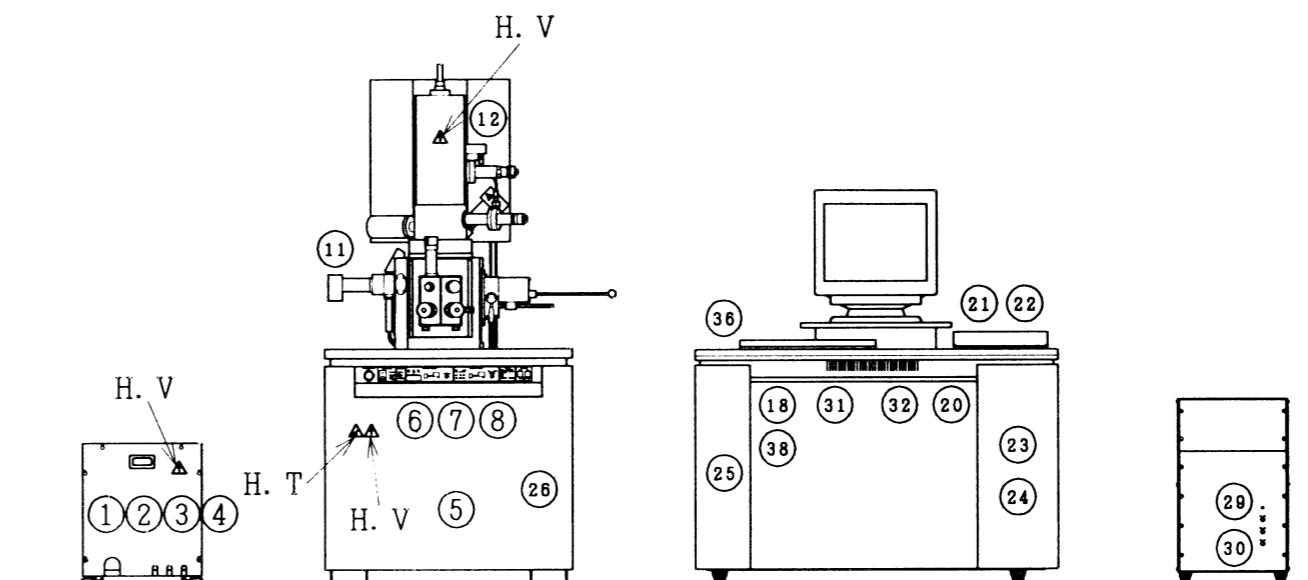
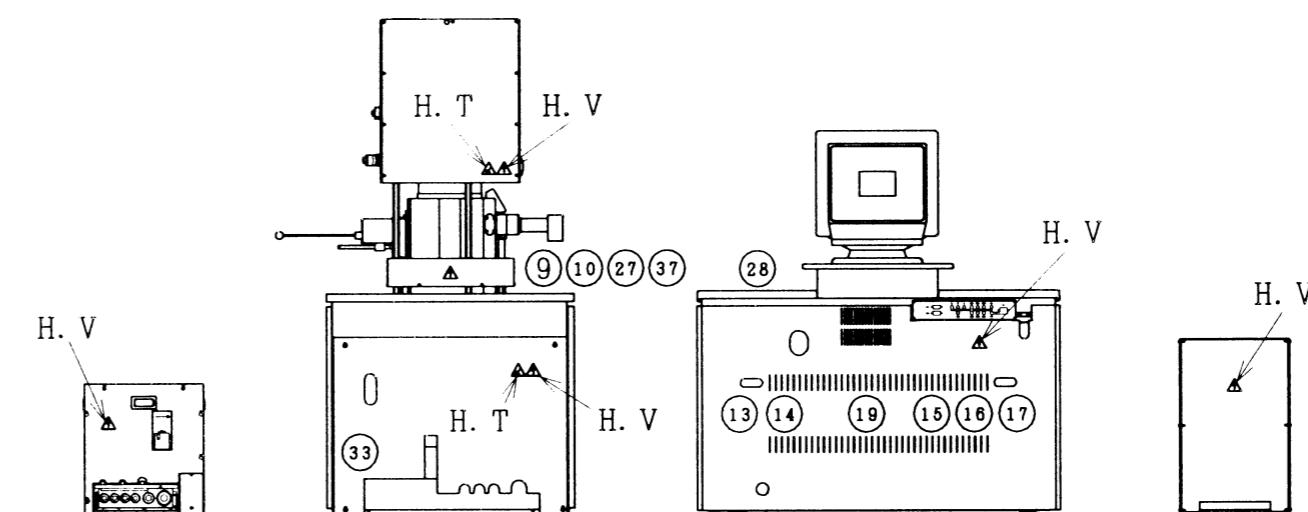


CIRCUIT DIAGRAMS FOR S-4700 SCANNING ELECTRON MICROSCOPE

NO.	BOARD NAME	D #	NOTE	PAGE
1	BLOCK DIAGRAM			2
2	AC POWER DISTRIBUTION UNIT WIRING DIAGRAM	537-8370		3
3	PC-RL P.C.B.	537-8372		4
4	DCPS (COL) P.C.B.	537-8371		5
5	EVACSEQ P.C.B.(1/5~END/5)	537-8365		6
6	EVACPNL1 P.C.B.	537-8366		11
7	EVACPNL2 P.C.B.	537-8367		12
8	EVACPNL3 P.C.B.	537-8368		13
9	COL-CN P.C.B.	537-8373		14
10	PMHV P.C.B.(1/2~END/2)	537-8355		15
11	HEAD AMP P.C.B.			17
12	BEAM MONITER P.C.B.			18
13	ACPS UNIT WIRING DIAGRAM	537-8369		19
14	DC PS P.C.B.(1/3~END/3)	537-8356		20
15	PC HVC P.C.B.(1/2~END/2)	537-8377		23
16	PC HV2 P.C.B.(1/2~END/2)	537-8378		25
17	PC HV1 P.C.B.	537-8379		27
18	PCSGVA P.C.B.(1/5~END/5)	537-8360		28
19	DEF/LENS P.C.B.(1/5~END/5)	537-8350		33
20	IO P.C.B.(1/4~END/4)	537-8361		38
21	PCPANEL1 P.C.B.	537-8362	option	42
22	PCPANEL2 P.C.B.	537-8363	option	43
23	PHOTO-1 P.C.B.	537-8358	option	44
24	PHOTO-2 P.C.B.(1/2~END/2)	537-8359	option	45
25	IMPOSER P.C.B.(1/7~END/7)	537-8351		47
26	PE. HV P.C.B.	589-7250		54
27	FUSE P.C.B.			55
28	CANCEL P.C.B.(1/2~END/2)	537-8357		56
29	ION PUMP POWER SUPPLY			58
30	IP DC P.C.B.			59
31	CPU BOARD			60
32	IMAGE MEMORY BLOCK DIAGRAM	271-6820		61
33	PC-STAGE P.C.B.(1/9~END/9)	537-8353	option	62
34	5 AXIS MOTOR CONTROL			71
35	WIRING DIAGRAM FOR OPTION DETECTOR	537-8393	option	72
36	OPT-VA P.C.B.(1/3~END/3)	537-8390	option	73
37	OPT-PMHV P.C.B.	537-8391	option	76
38	PHOTO IF P.C.B.			77



(Front View)

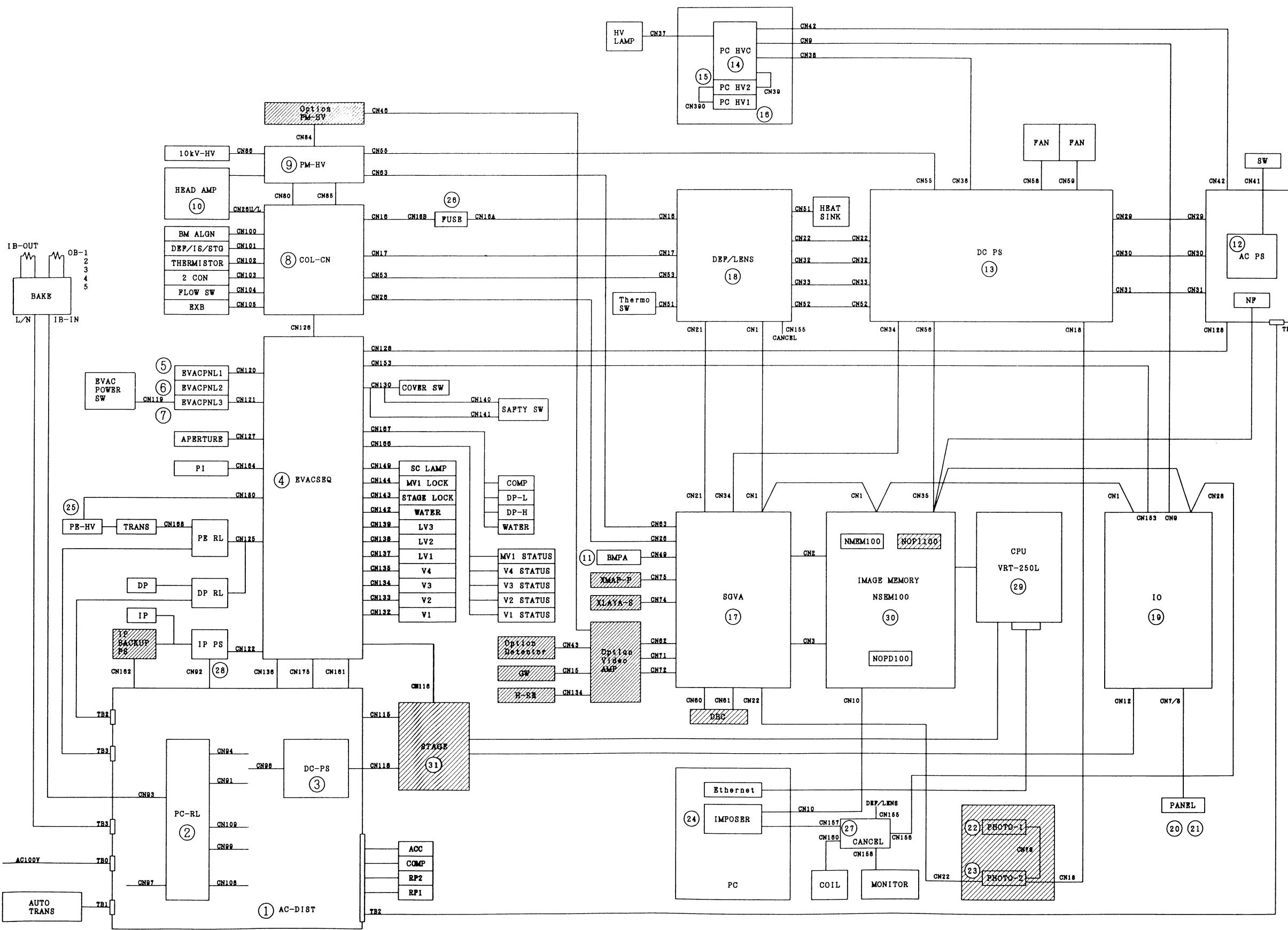


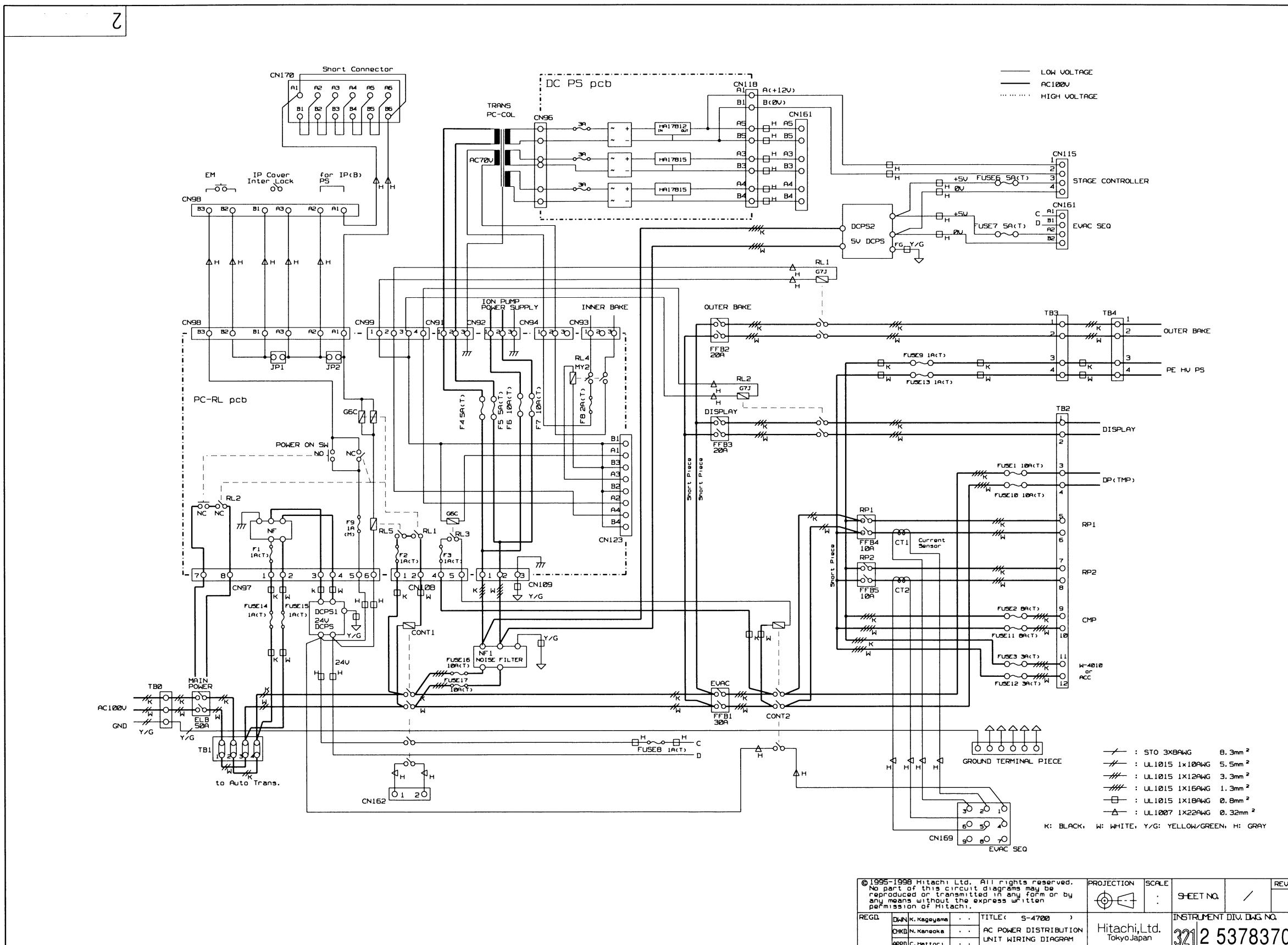
(Rear View)

APPENDIX : UL, SEMI S2-93 MODIFICATION

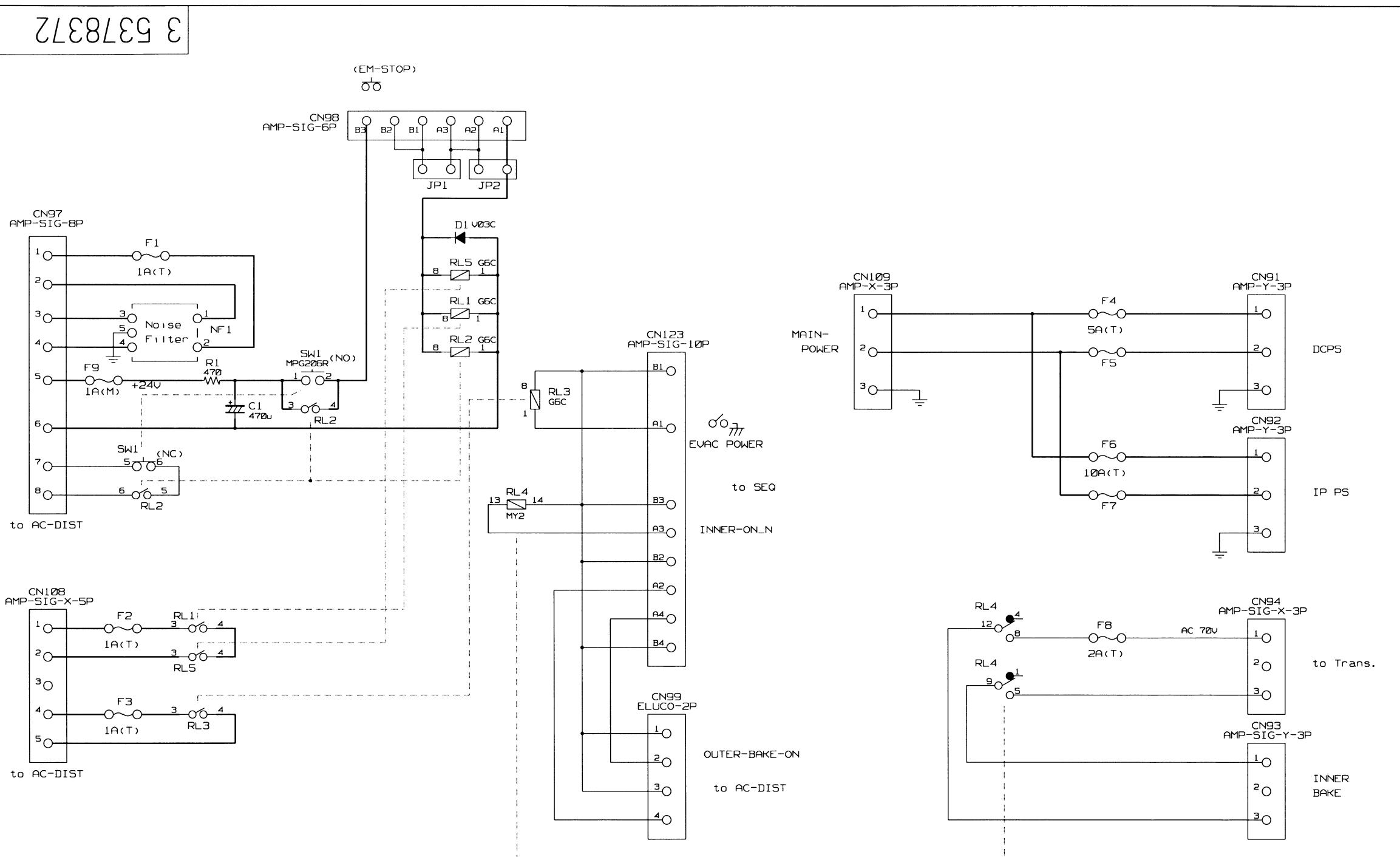
39	S-4700 BLOCK DIAGRAM		A-1
40	MAIN UNIT BLOCK DIAGRAM		A-2
41	DISPLAY UNIT BLOCK DIAGRAM		A-3
42	AC POWER DISTRIBUTION UNIT WIRING DIAGRAM		A-4
43	INTERLOCK DIAGRAM		A-5

Boards Location





3 5378372



AC POWER-DISTRIBUTION UNIT 25375824

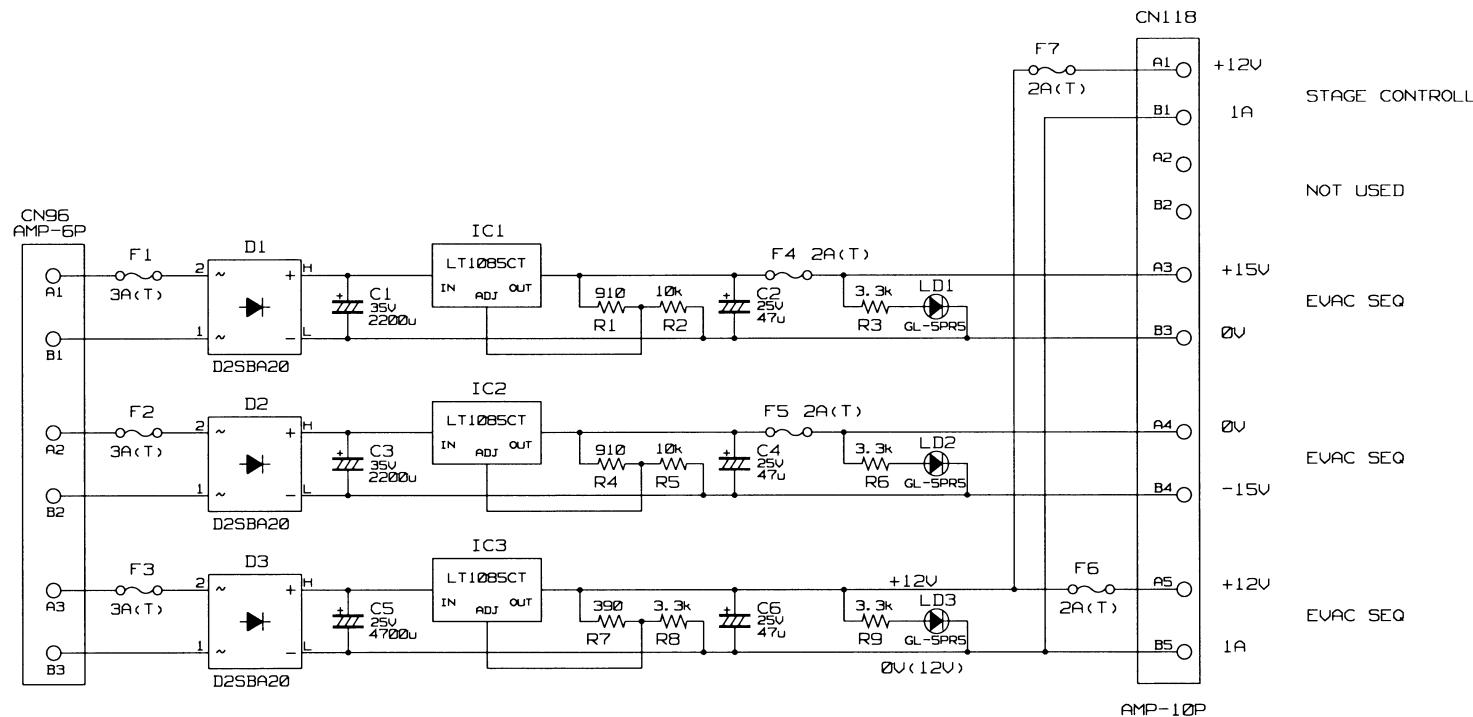
SF376B

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CHK'D	N. Kaneoka	PC-RL P. C. B.				
APP'D	C. Hattori		Hitachi,Ltd. Tokyo Japan		1 / 1	

INSTRUMENT DIV. DWG. NO.
3213 5378372

35378371



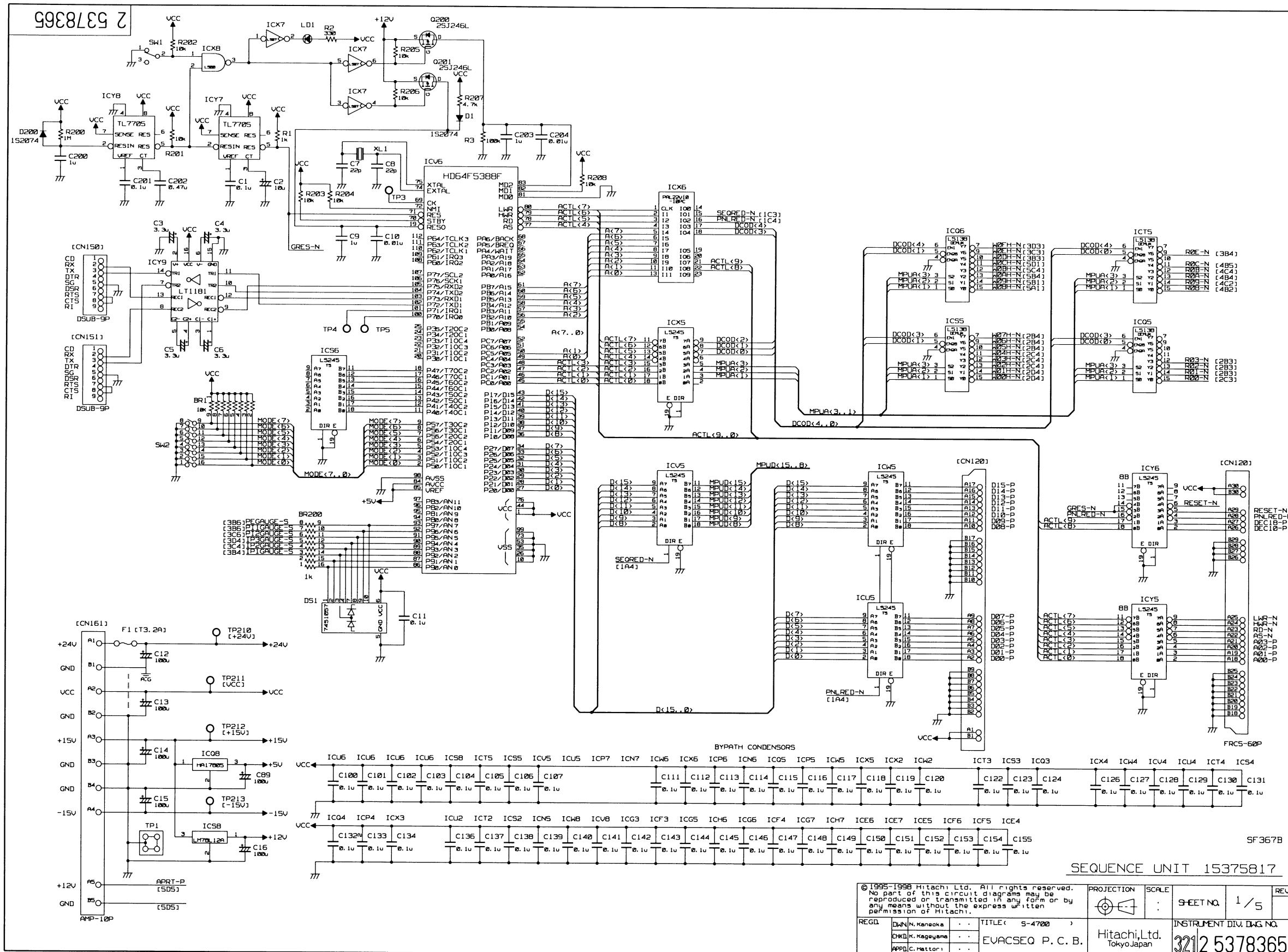
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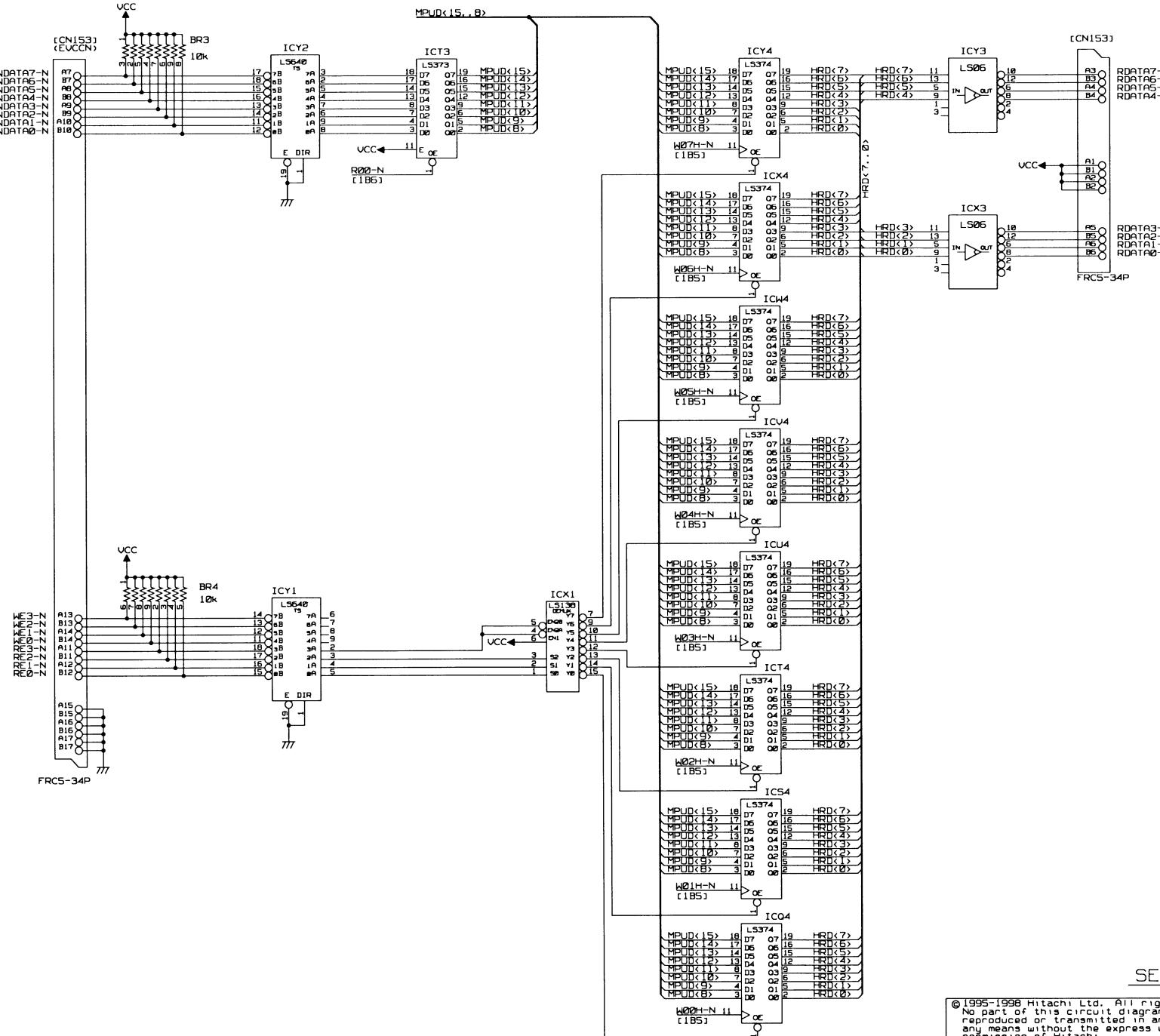
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CHK'D	N.Kaneoka	DCPS(COL)				
APP'D	C.Hattori	P.C.B.				
						Hitachi,Ltd.	INSTRUMENT DIV. DWG. NO.	

32135378371





SEQUENCE UNIT 15375817

SF367B

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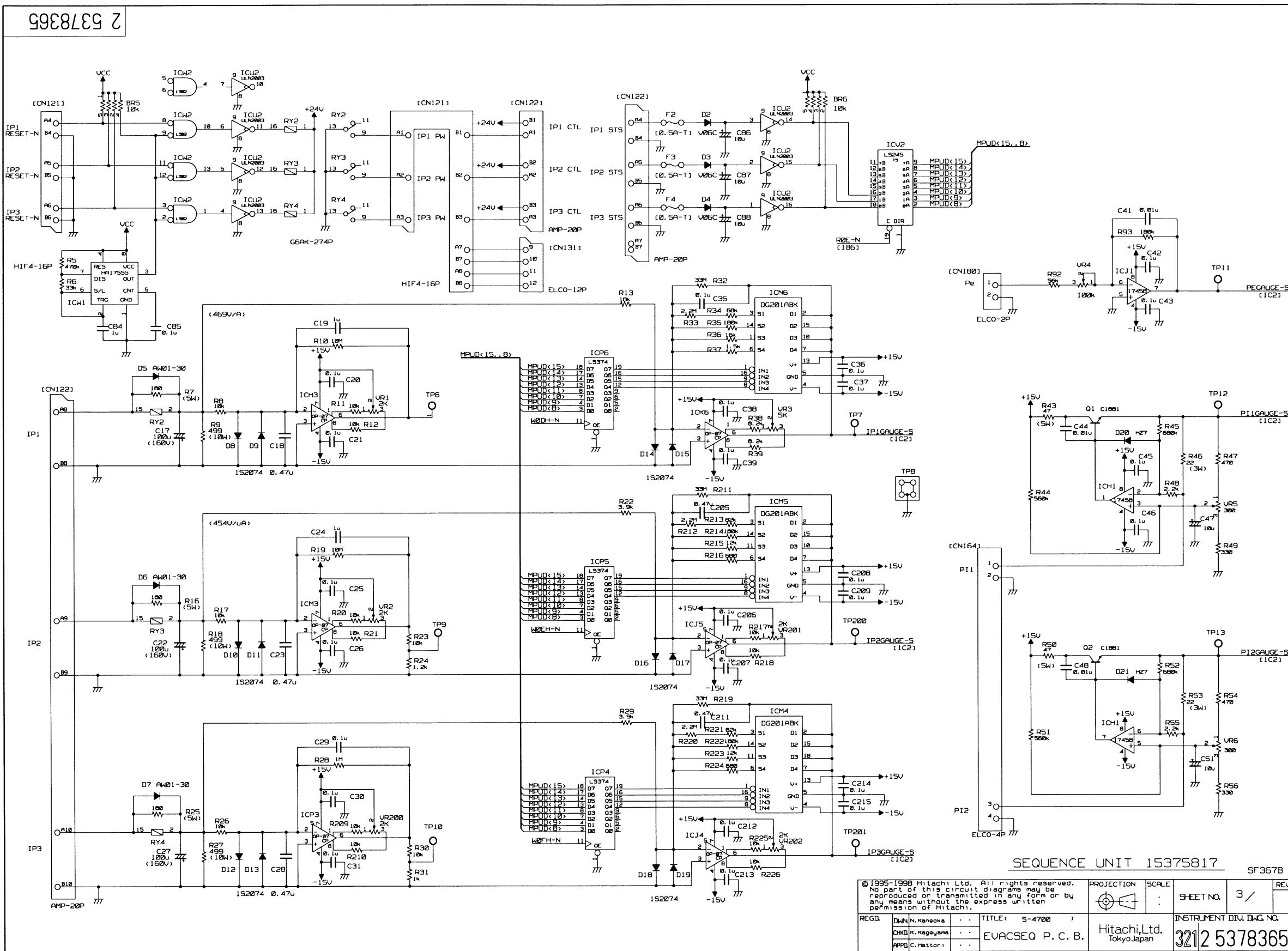
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CKD		K. Kageyama	..							
APPD		C. Matorri	..							

EVACSEQ P. C. B.

Hitachi,Ltd.
Tokyo,Japan

3212 5378365

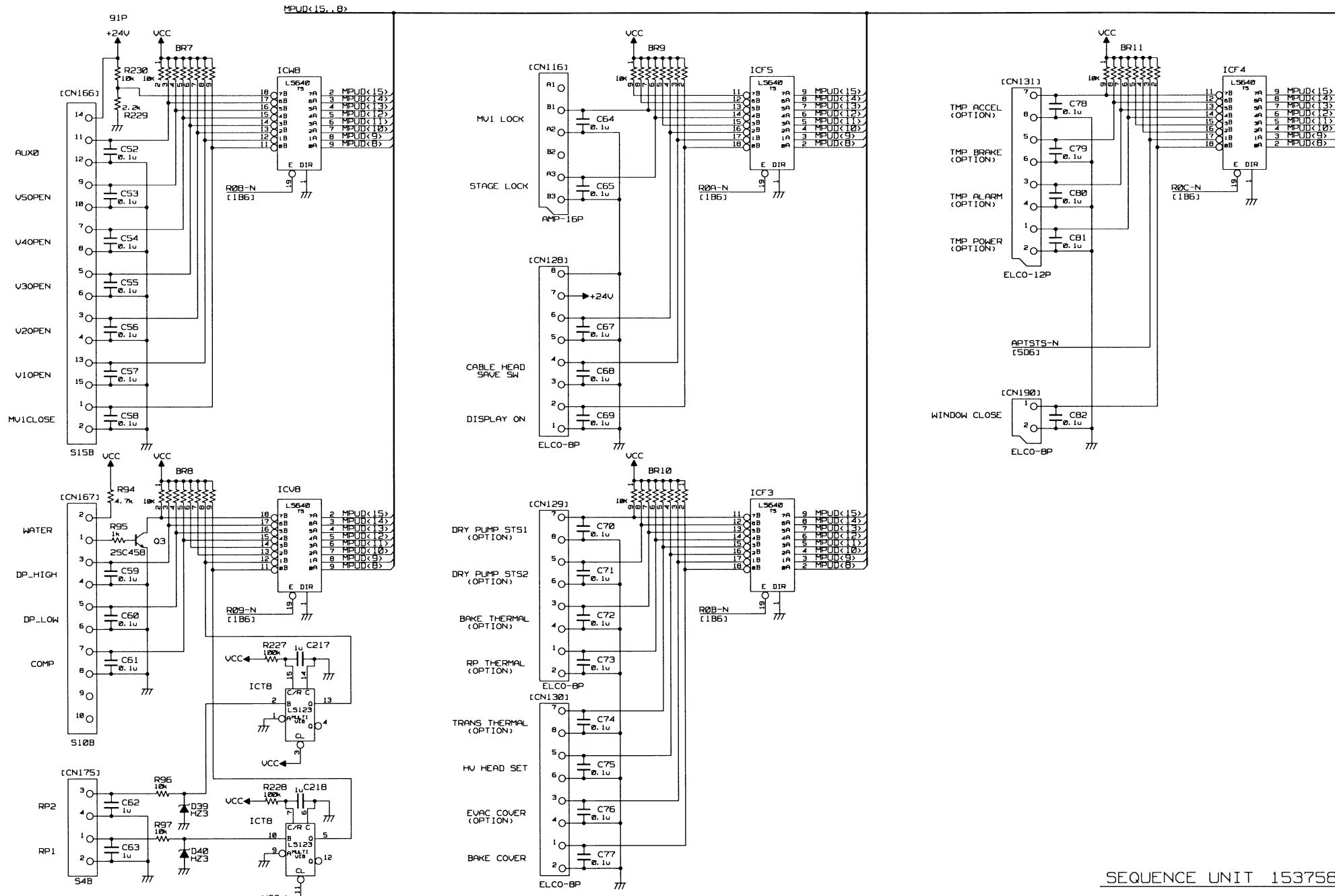
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REGD	DIN	CHD	APPD	TITLE	SCALE	SHEET NO.	REV.
	N. Keneka	K. Kageyama	C. Matteri	S-4700			
				EVACSEQ P. C. B.			
				Hitachi,Ltd. TokyoJapan			

3212 5378365



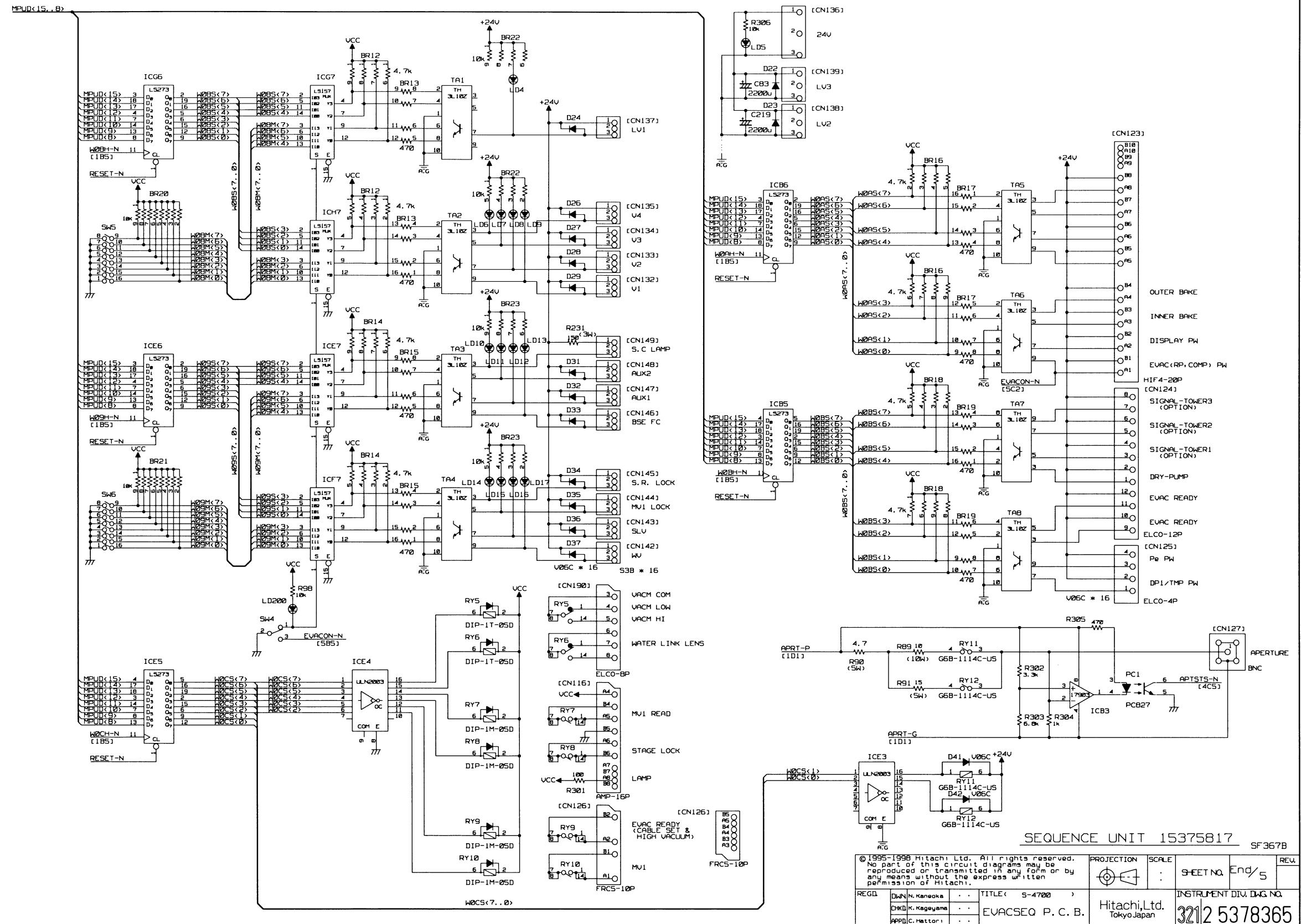
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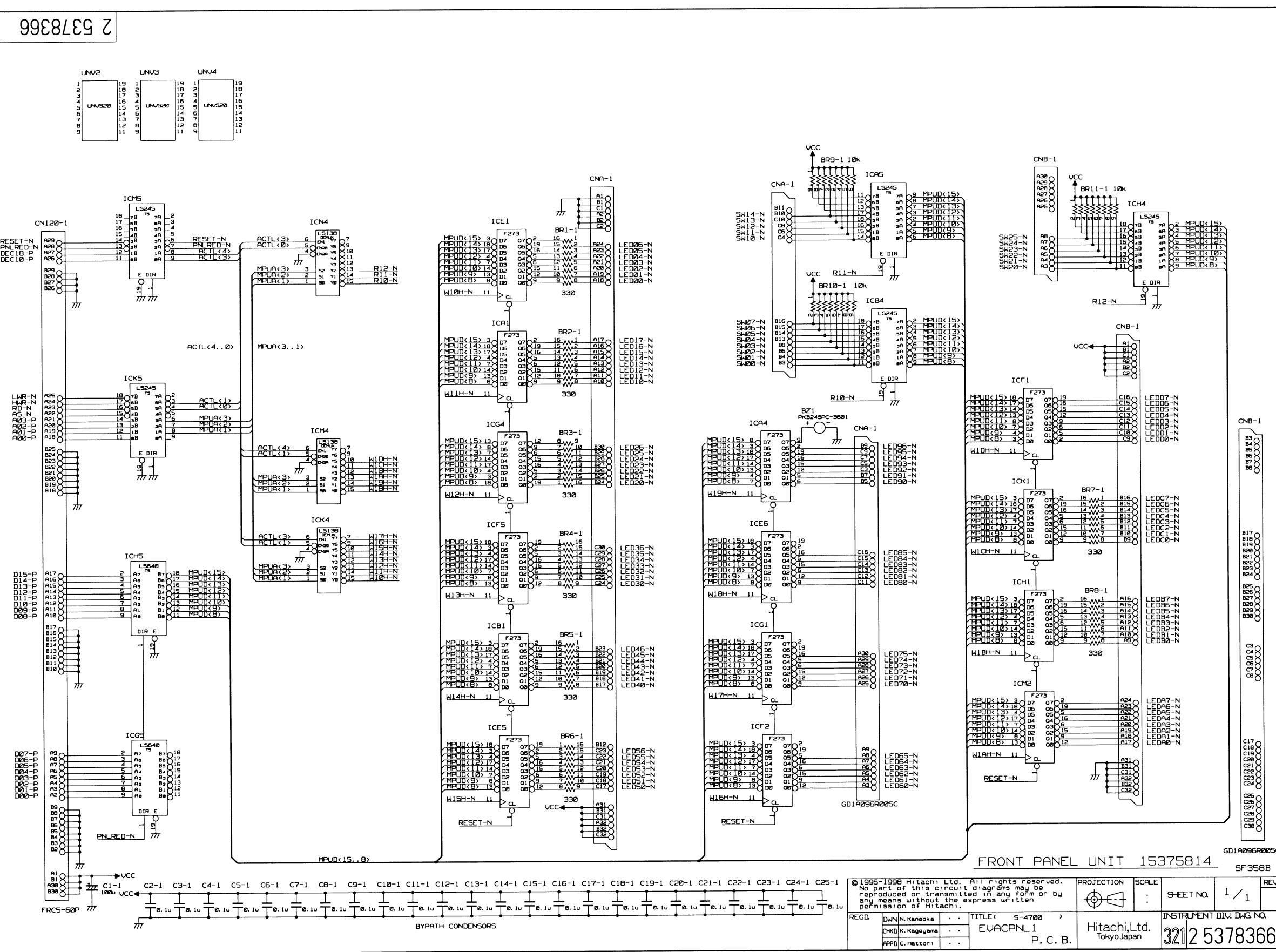
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REGD: DWN N. Kaneko	..	TITLE: S-4700	.	4 /	
CHKD: K. Kageyama	..	EVACSEQ P. C. B.			
APPD: C. Matorri	..				

INSTRUMENT DIV. Dwg No.
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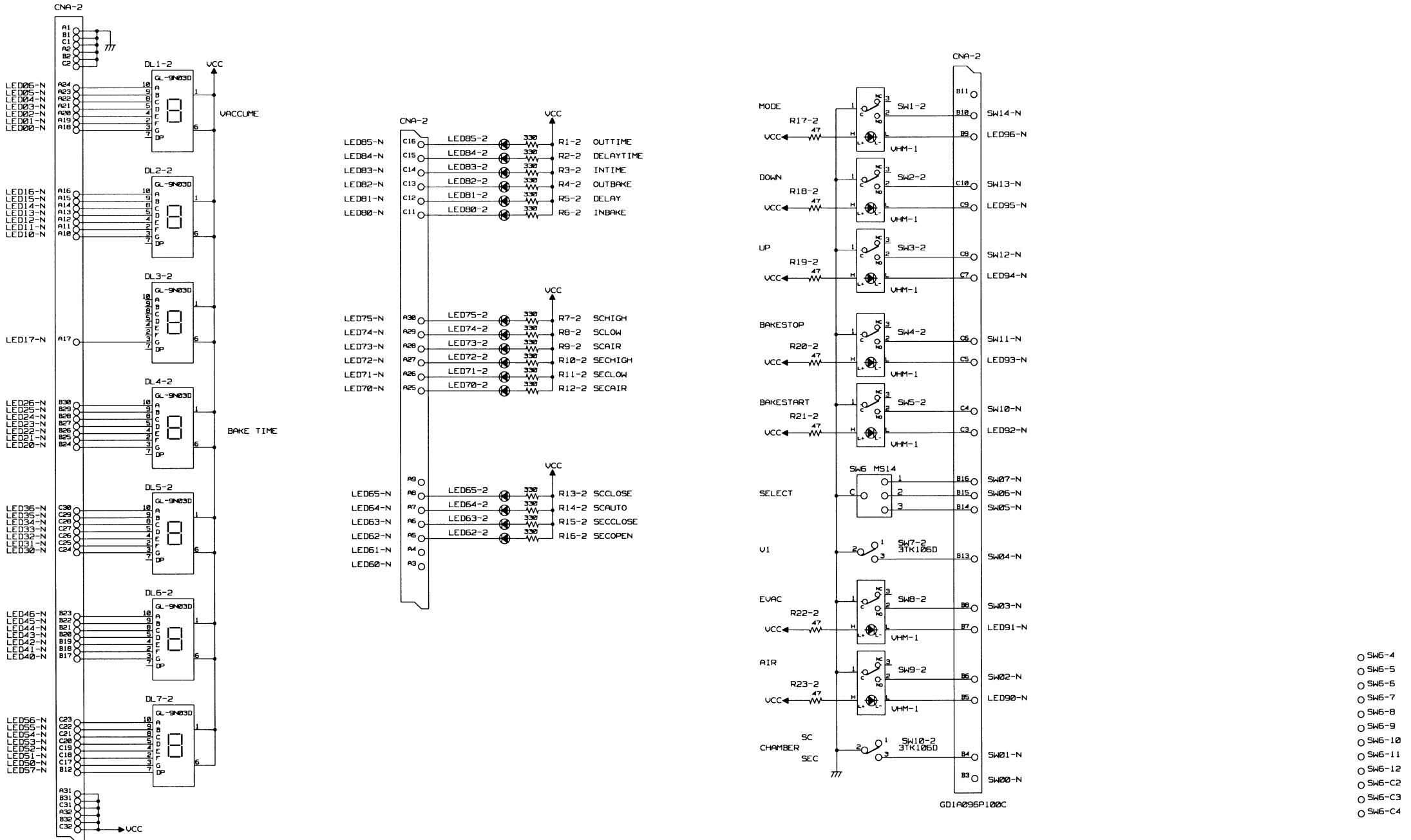
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2 5378366



2 5378367

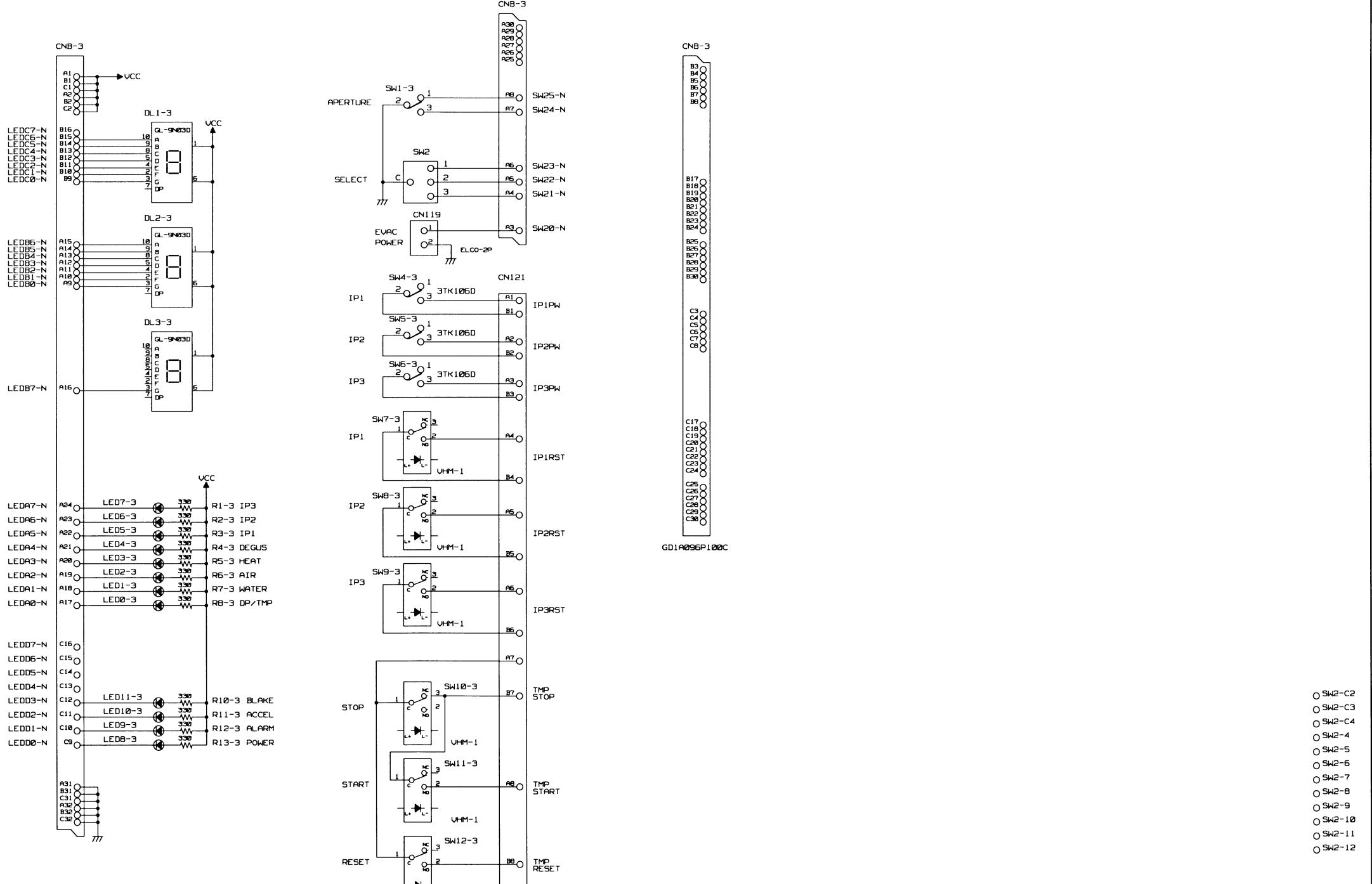


FRONT PANEL UNIT 15375815

SF359B

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REGD	DWN N. Kaneoka . .	CHND K. Kageyama . .	TITLE S-4700 EVACPNL2 P. C. B.	: Hitachi,Ltd. Tokyo Japan	INSTRUMENT DIV. DWG NO.	321	2 5378367

2 5378368

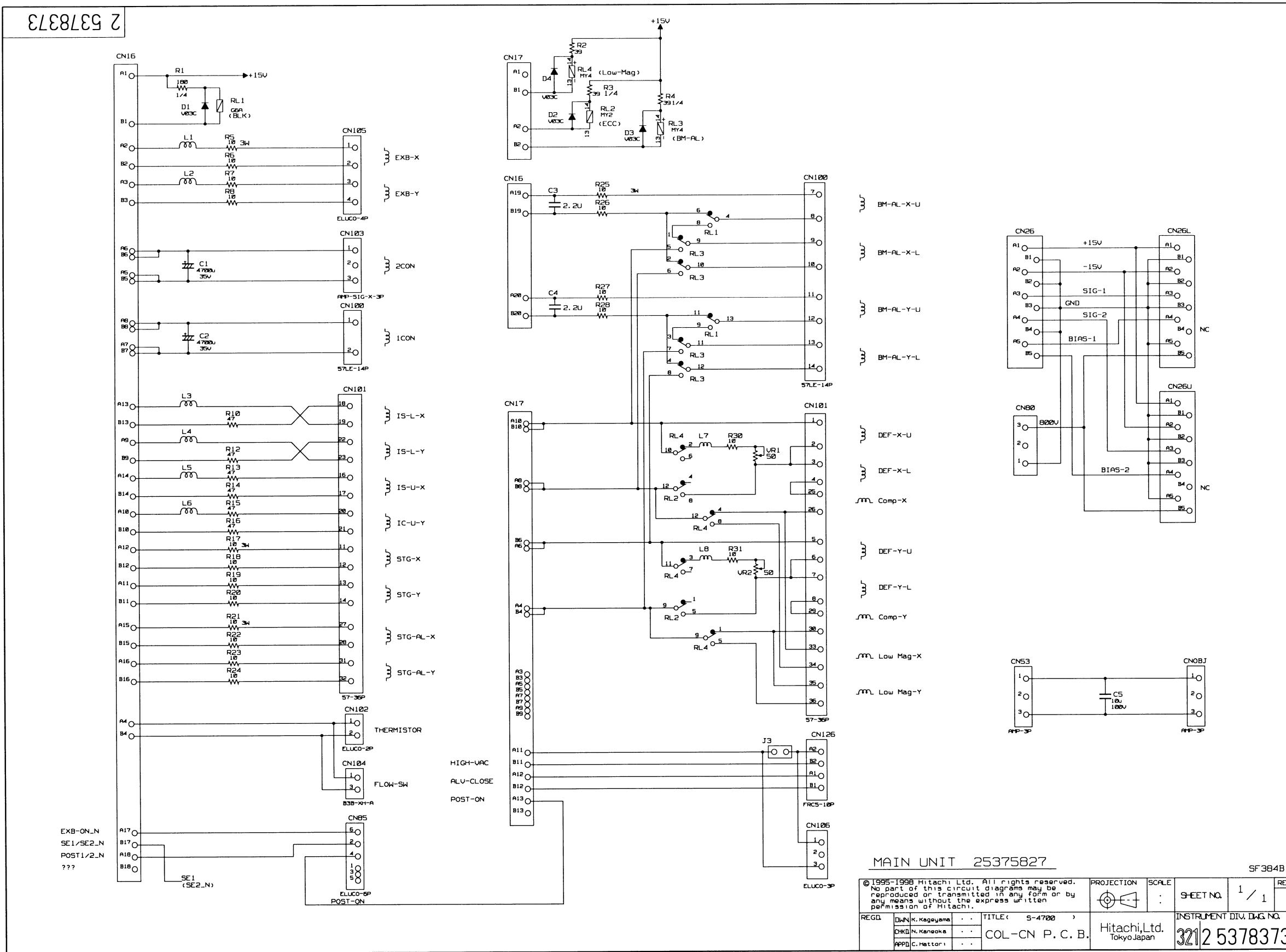


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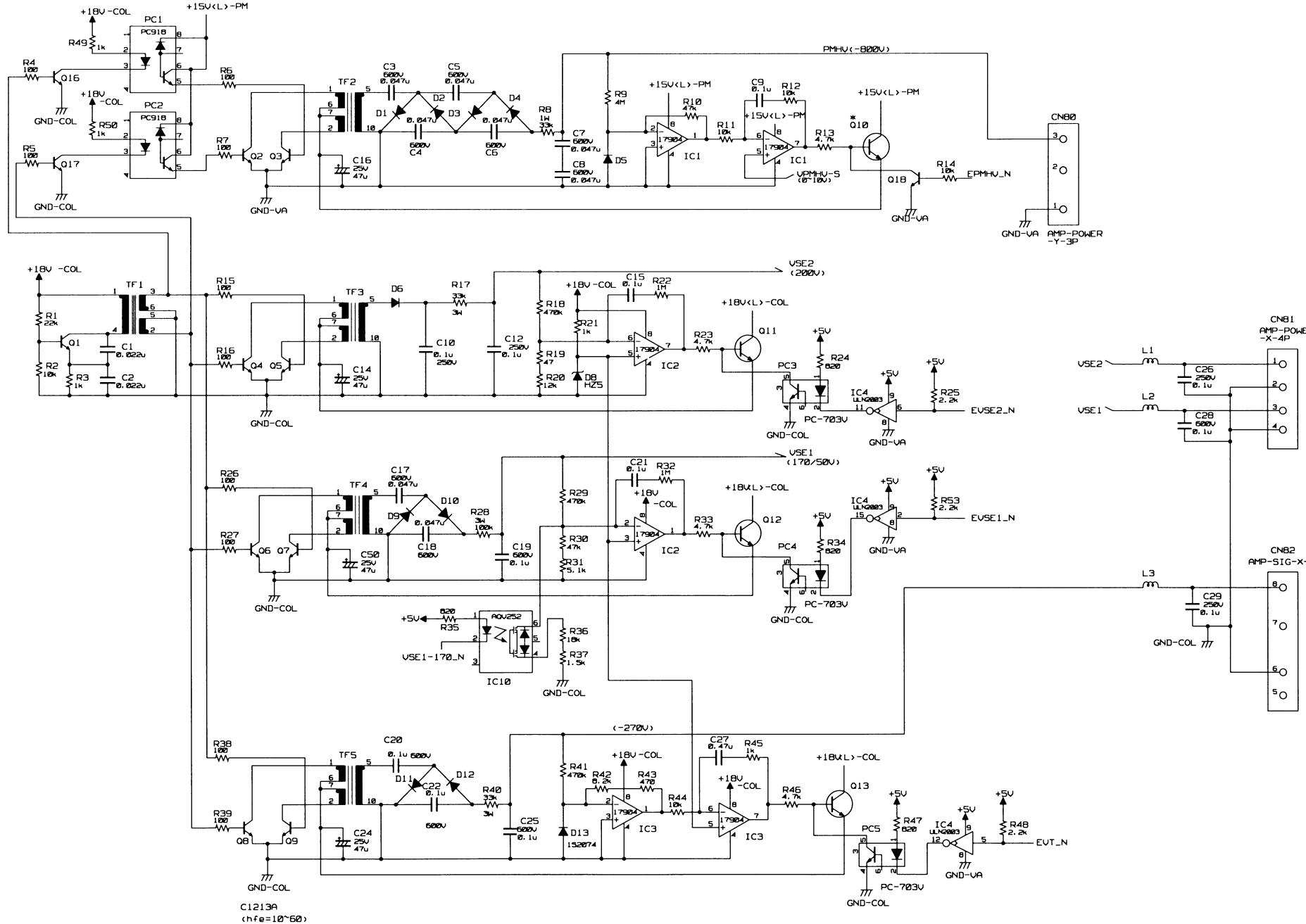
SF360B

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REQD	DWN N. Kaneko ..	TITLE	S-4700	1 / 1	
CHKD	K. Kageyama ..	EVACPNL3	P. C. B.	Hitachi,Ltd.	Tokyo,Japan
APPD	C. Hattori ..			INSTRUMENT DIV. DNG NO.	3212 5378368

25378373



2 5378355



MAIN UNIT 25375823

SF368C

USED: R1~50
C1~27

NOT USED: C13, 20, 23

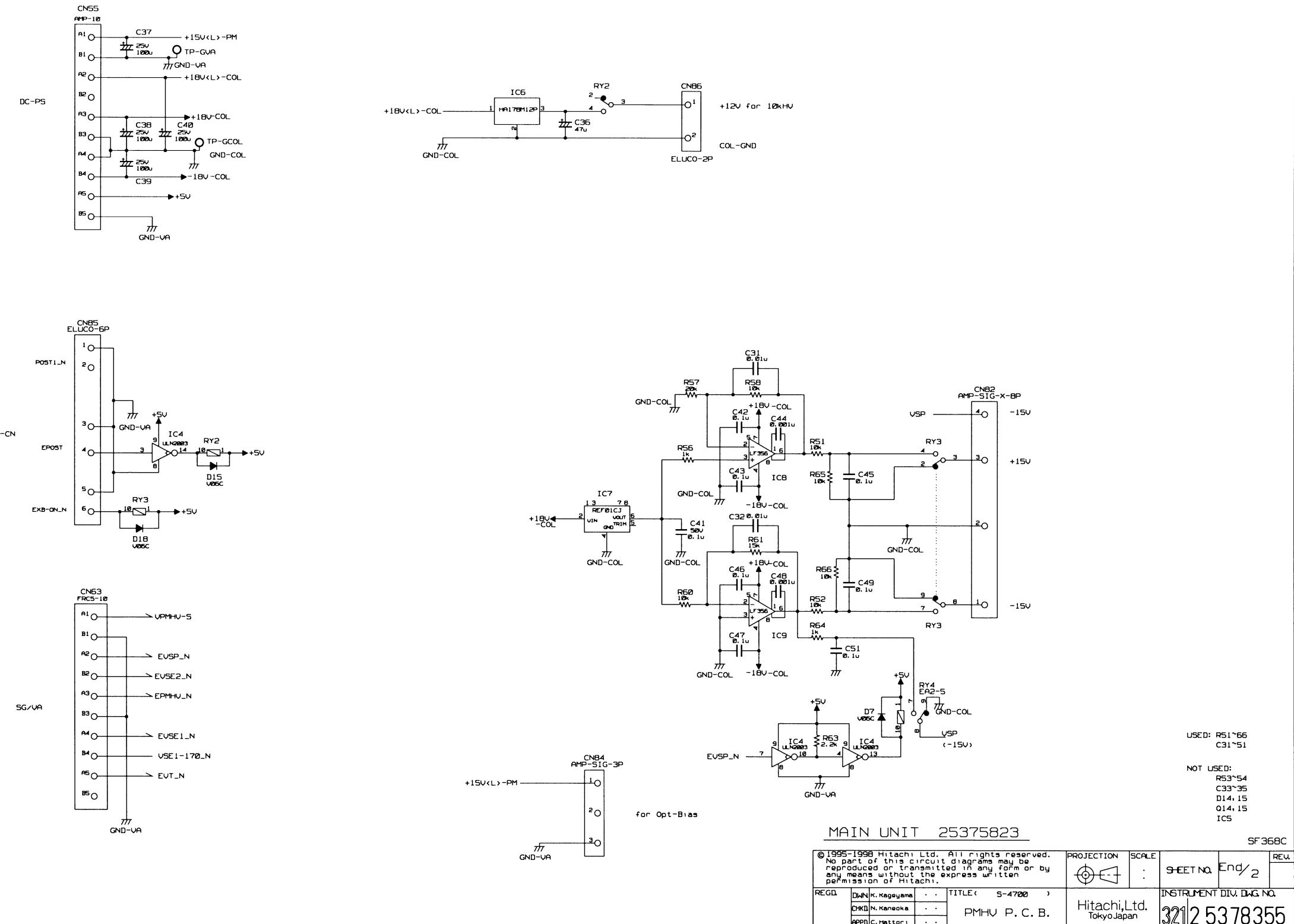
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REGD.	D/W K. Kageyama	TITLE: S-4700	PROJECTION	SCALE	SHEET NO.	1 / 2	REV.
CHKD	N. Kaneko						
APPD	C. Matorri						

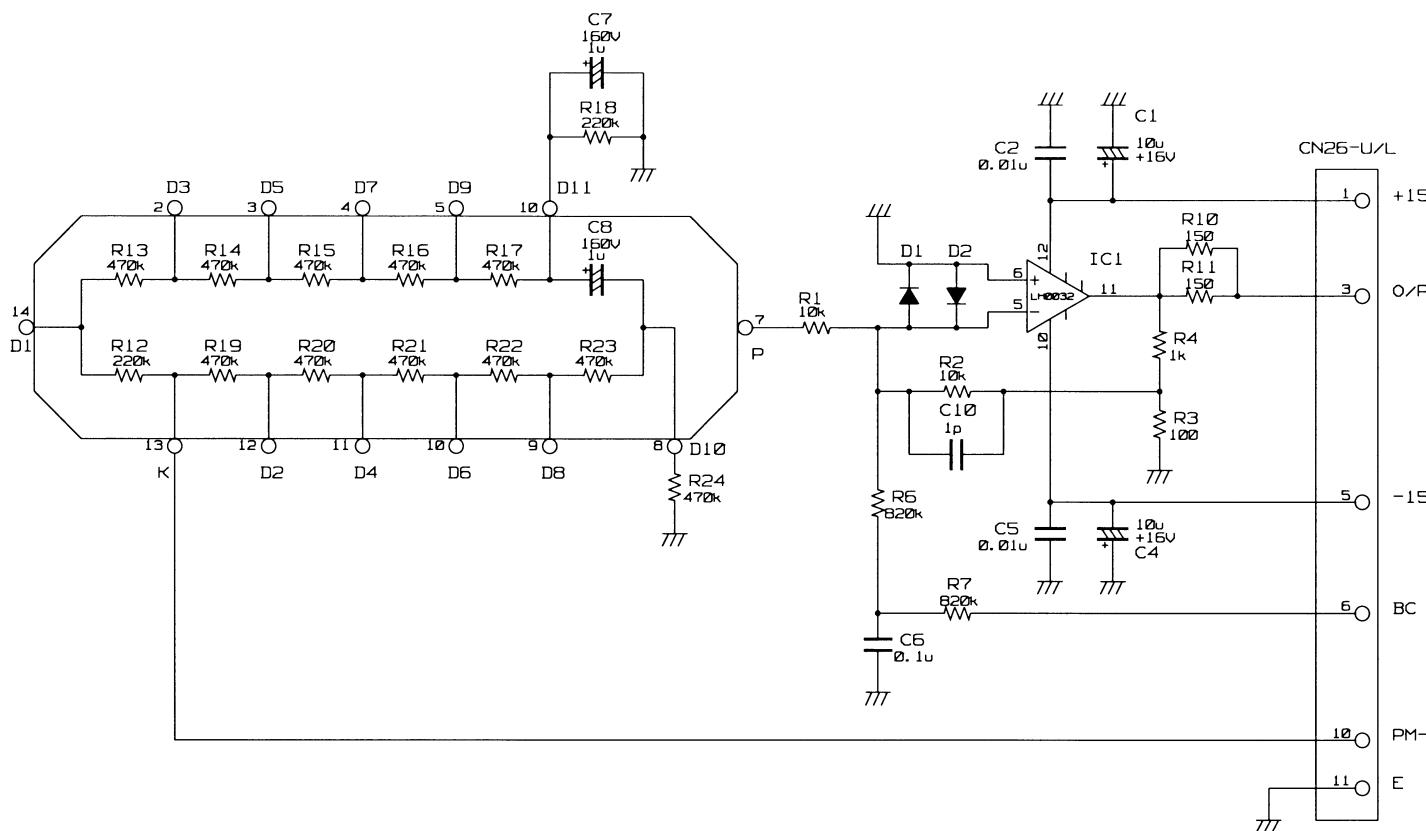
PMHV P. C. B.	Hitachi, Ltd. Tokyo Japan	INSTRUMENT DIV. DWG NO.
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3212 5378355

2 5378355



3



R12, 18 220k
R13-R17 470k
R19-R24 470k
11R=2.5M

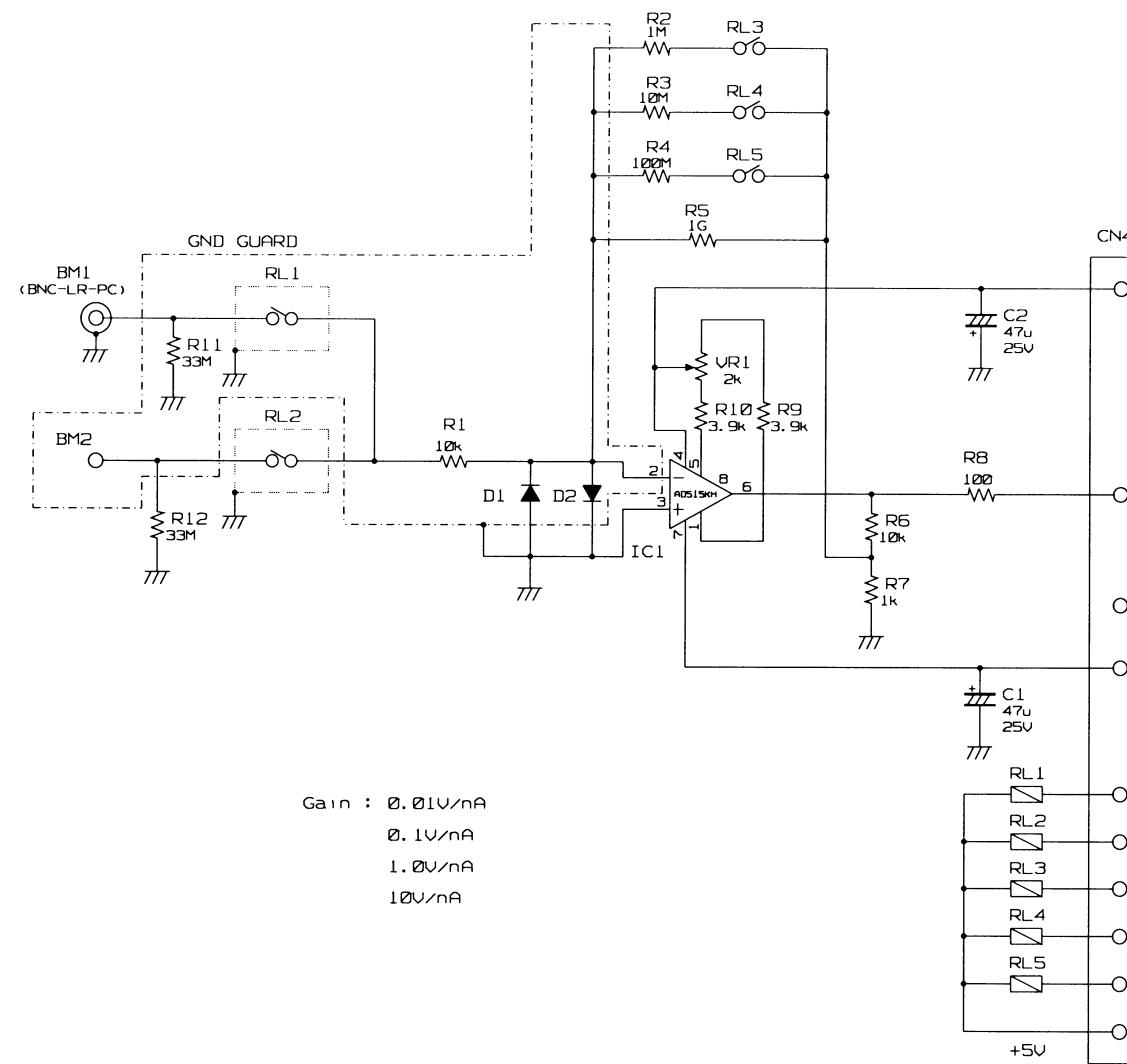
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REGD	DWN	K.Kageyama	..	TITLE	S-4700
CHKD	N.Kaneoka	..			
APPD	C.Hattori	..		HEAD AMP P.C.B	

PROJECTION	SCALE	SHEET NO.	/	REV.
	:			
INSTRUMENT DIV. DWG. NO.				
3213				

Hitachi,Ltd.
Tokyo Japan

C

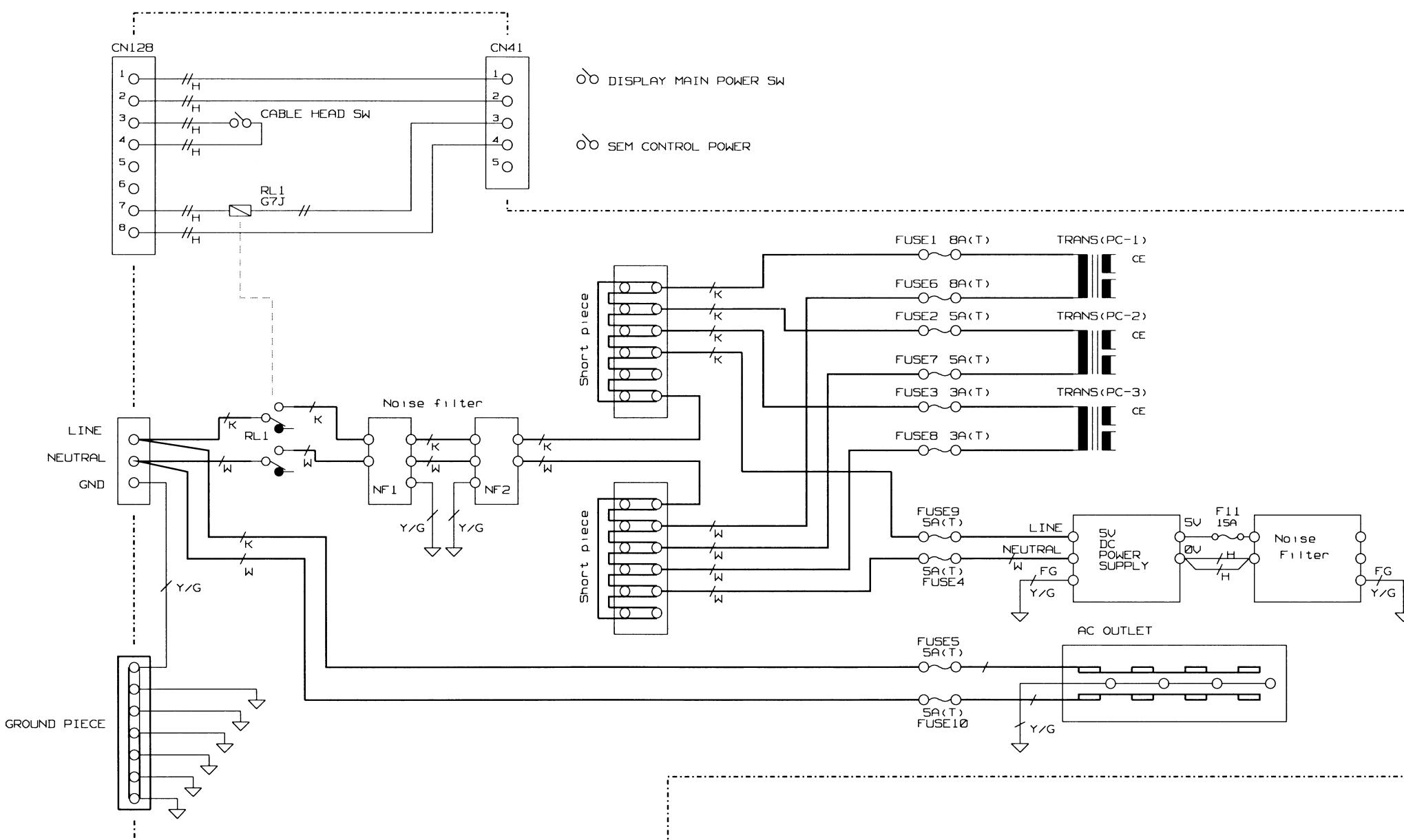


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REGD.	DWN	K.Kageyama	..	TITLE(S-4700)
	CHKD	N.Kaneoka	..	BEAM MONITOR
	APPD	C.Hattori	..	P.C.B.

PROJECTION	SCALE	SHEET NO.	/	REV.
	:			
INSTRUMENT DIV. DWG. NO.				
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3213				

3 5378369



AC POWER-DISTRIBUTION UNIT 25375824

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UL1015 1x16AWG 1.3mm

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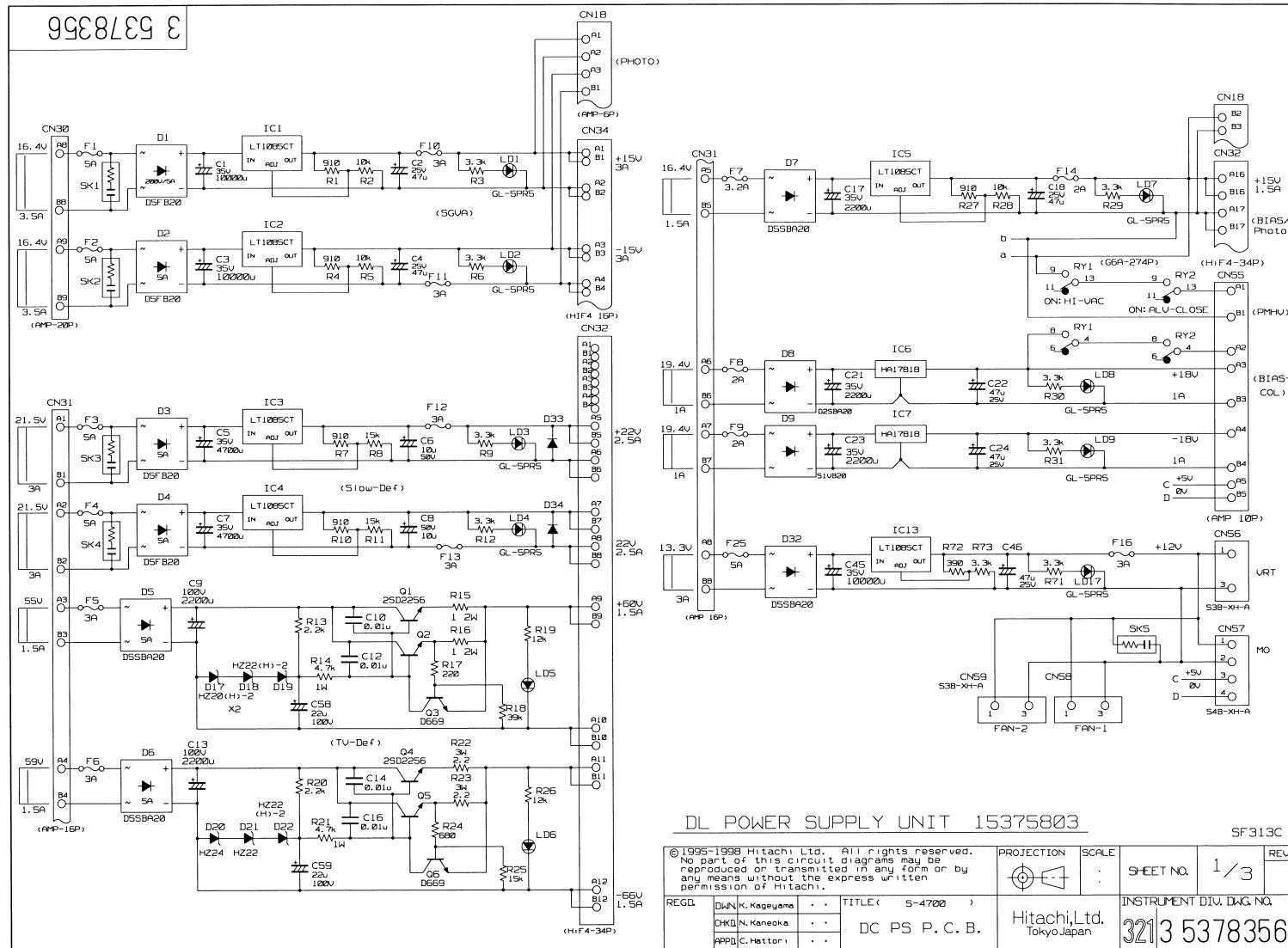
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親 口 * 15375110

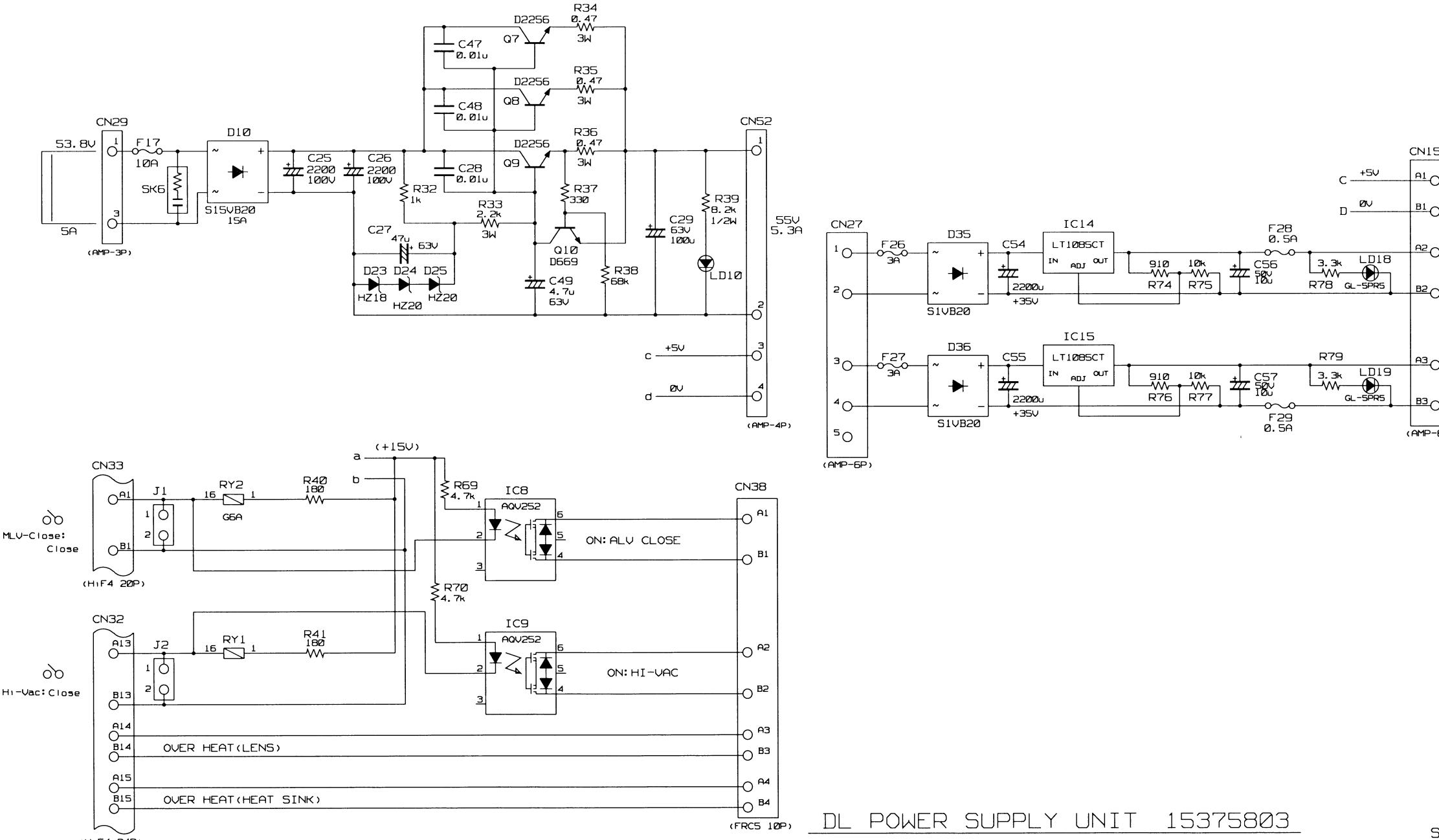
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	CHKD	N. Kaneoka	• •				
	APPD	C. Hattori	• •			3213 5378369	

3 5378356



3 5378356



DL POWER SUPPLY UNIT 15375803

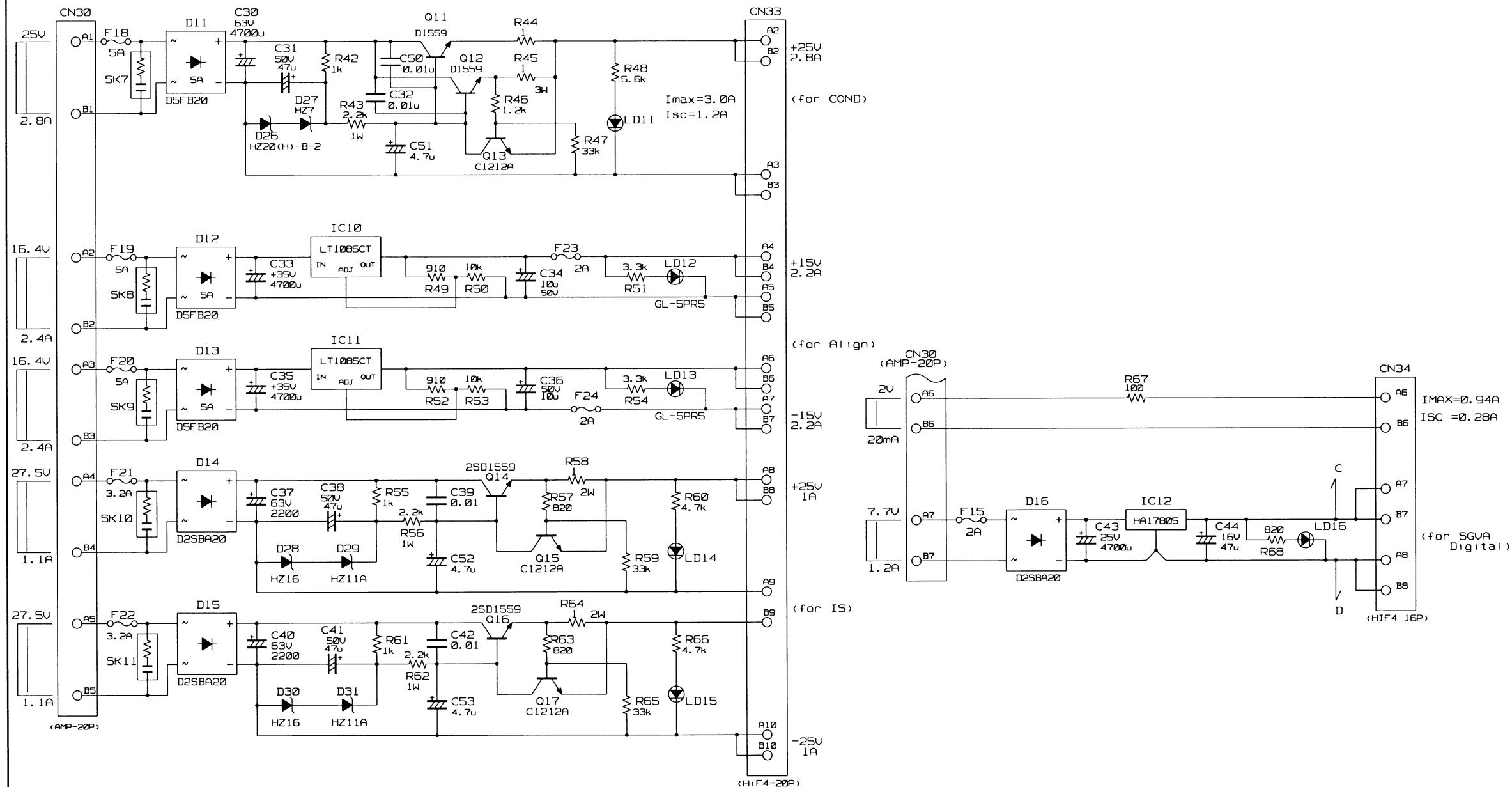
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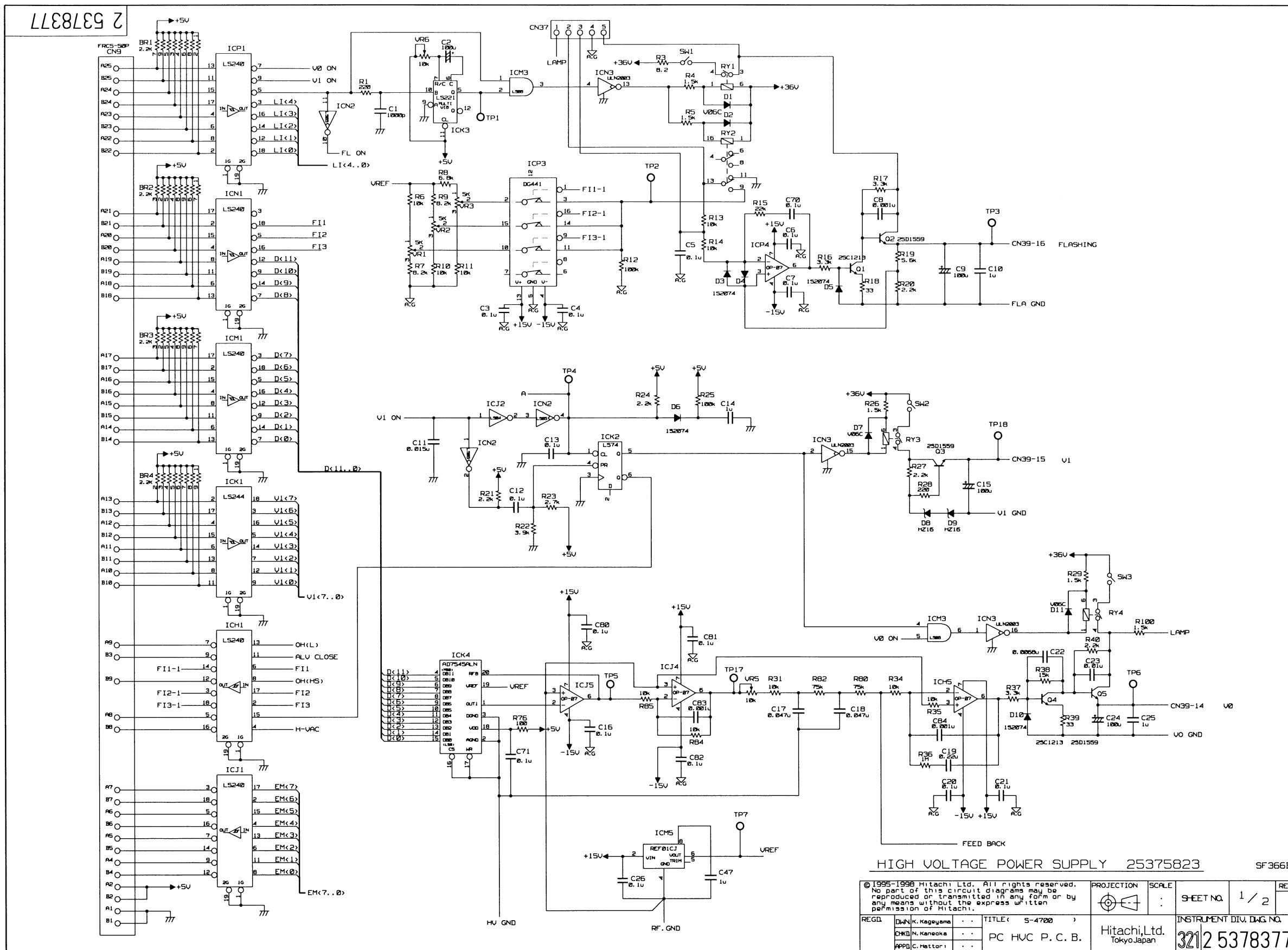
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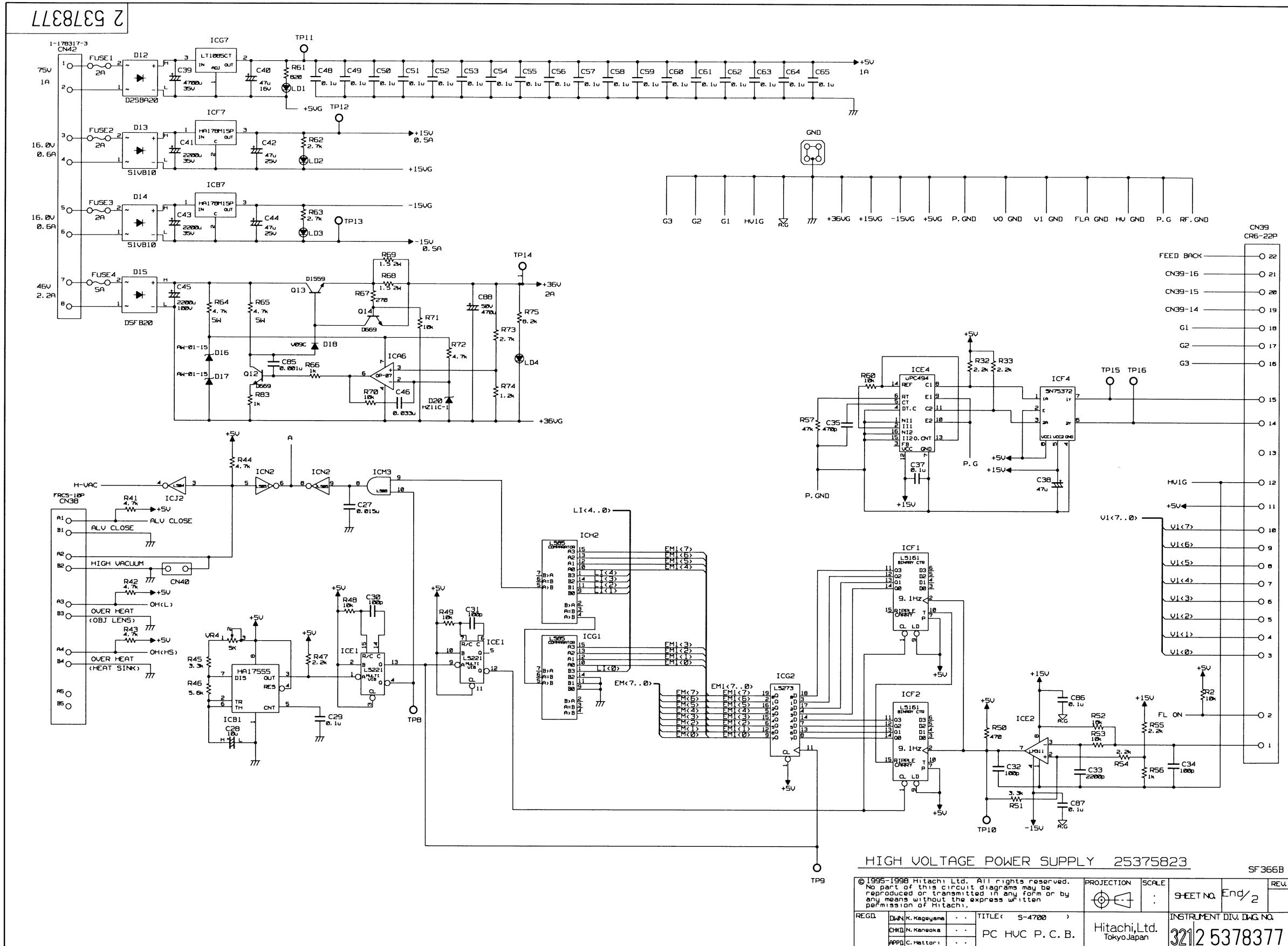
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APPD	C.Hattori	..		DC PS P.C.B.	Hitachi,Ltd. Tokyo Japan				
					INSTRUMENT DIV. DWG NO.				

321 3 5378356

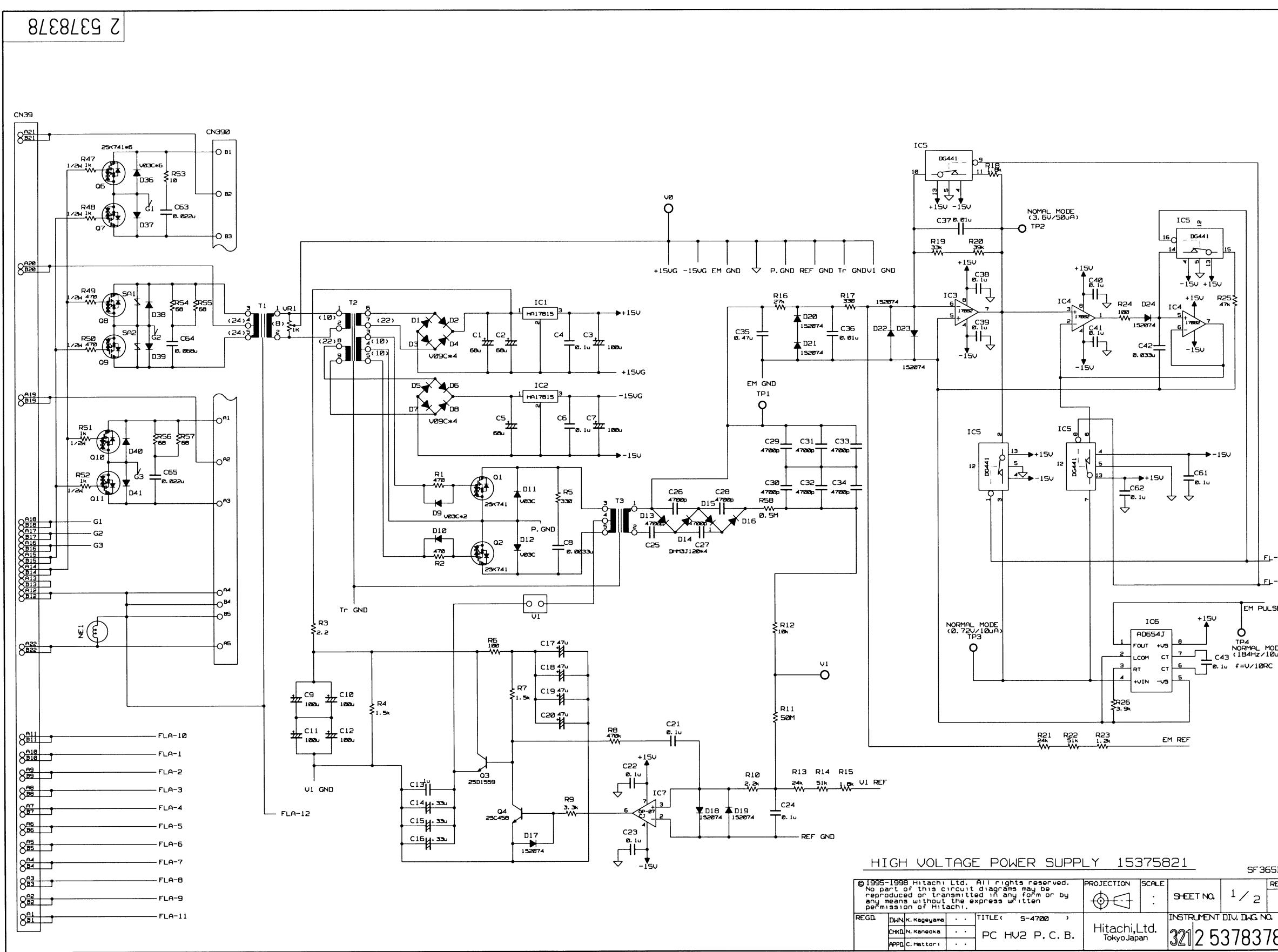
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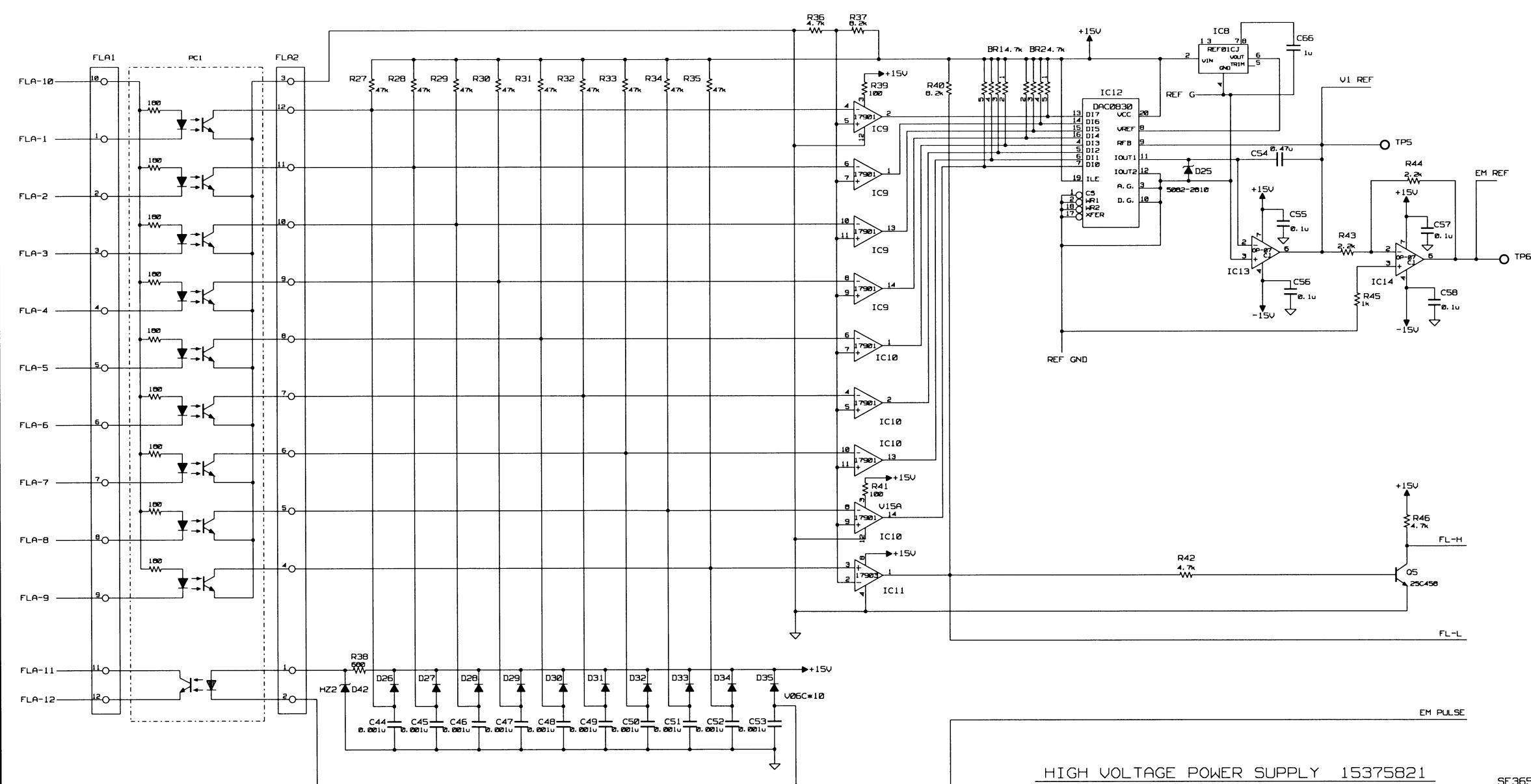




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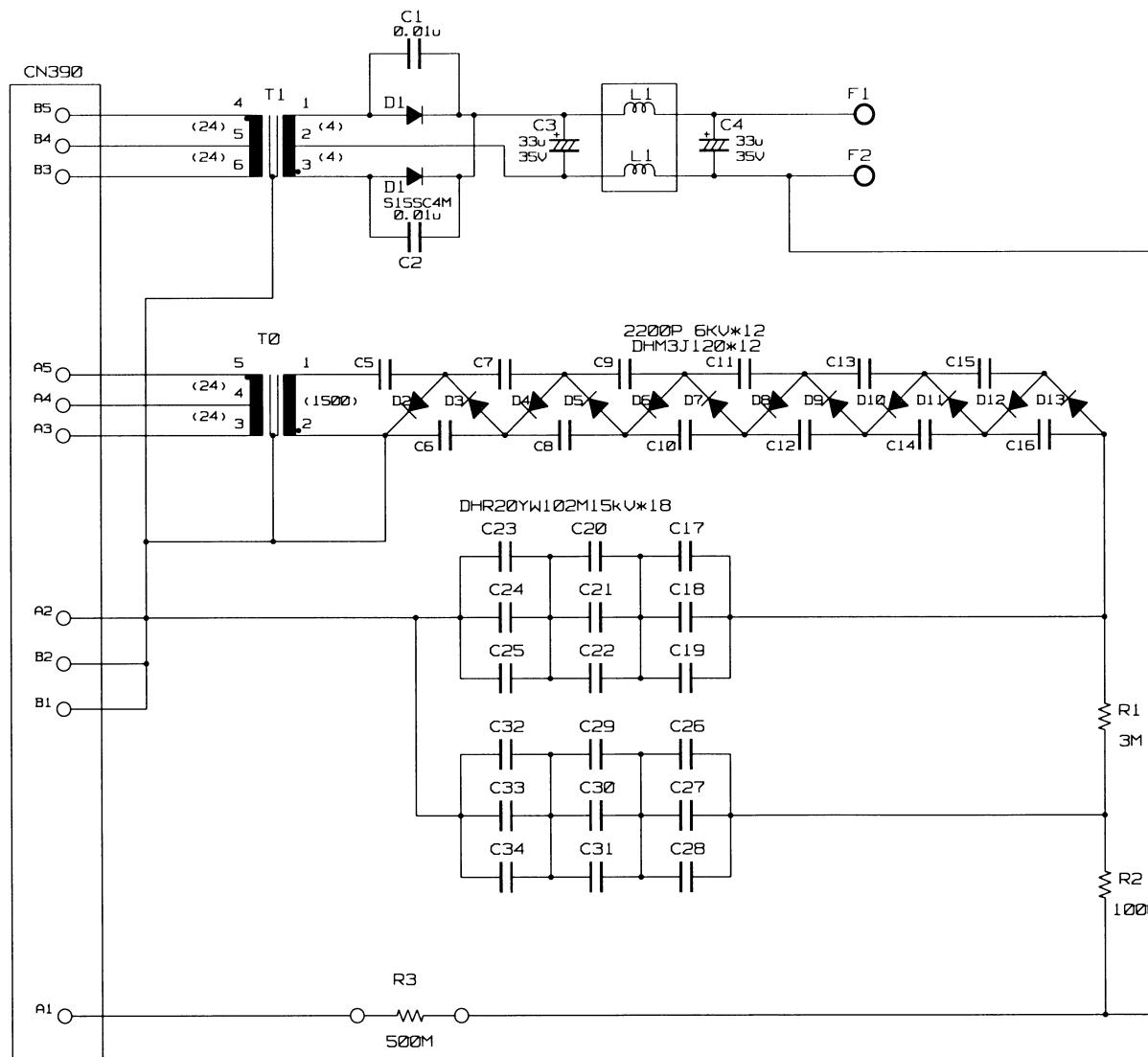


HIGH VOLTAGE POWER SUPPLY 15375821

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RECD. D/WN K. Kageyama . . .			TITLE(S-4700)	Hitachi,Ltd. Tokyo Japan	INSTRUMENT DIV. DWG. NO.
CHKD N. Kaneko . . .			PC HV2 P. C. B.		3212 5378378
APPD C. Matorri . . .					

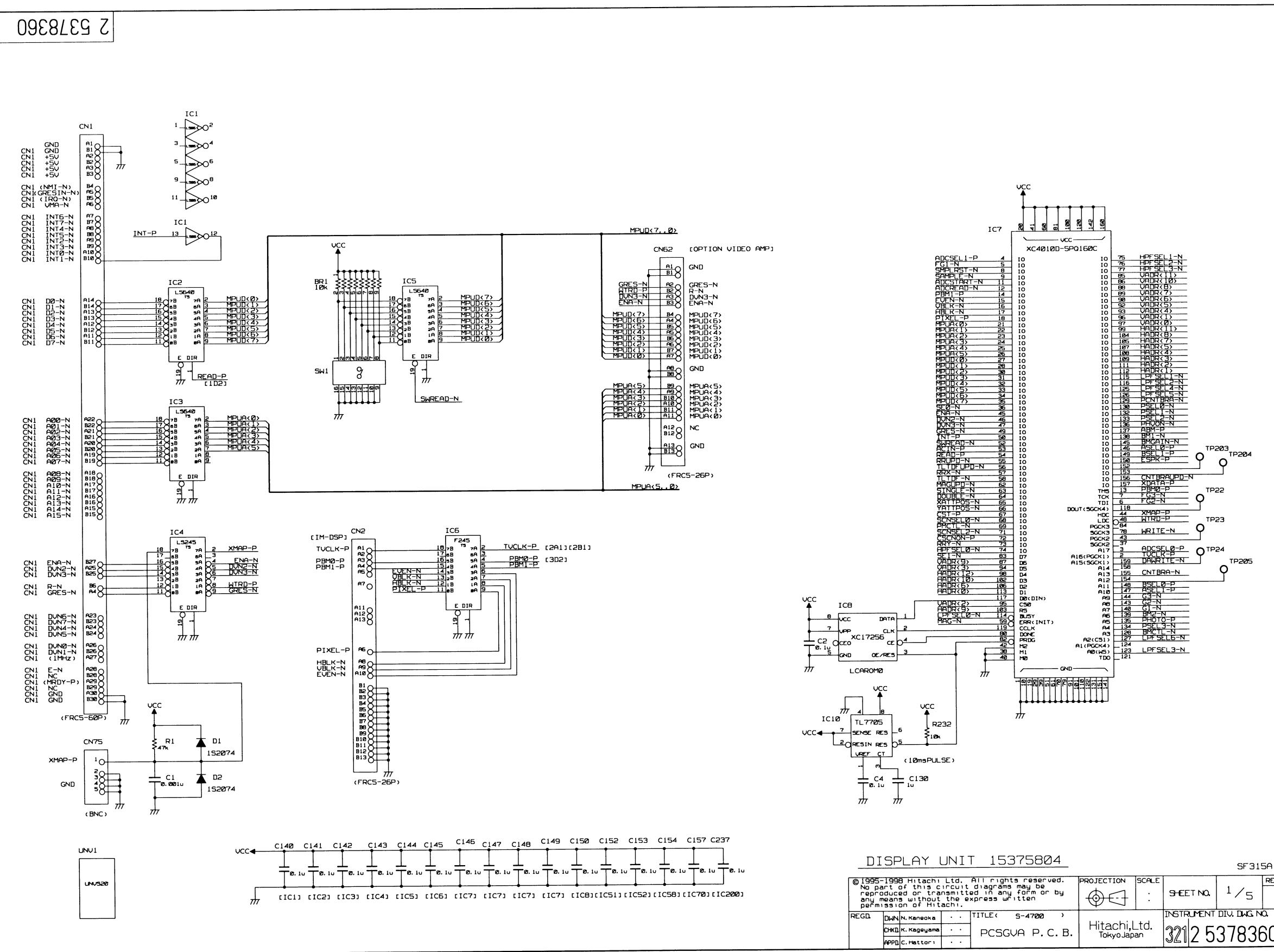
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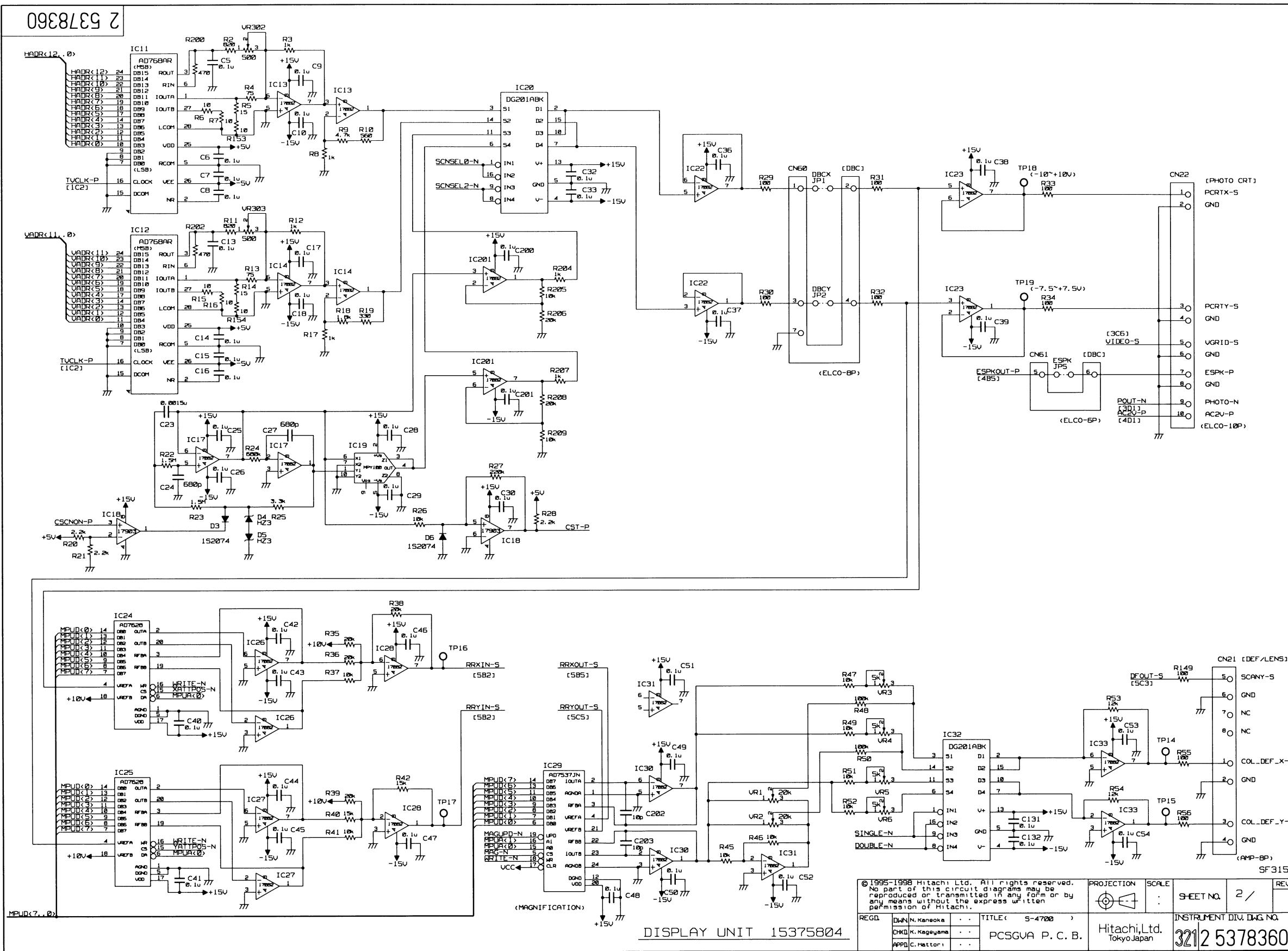


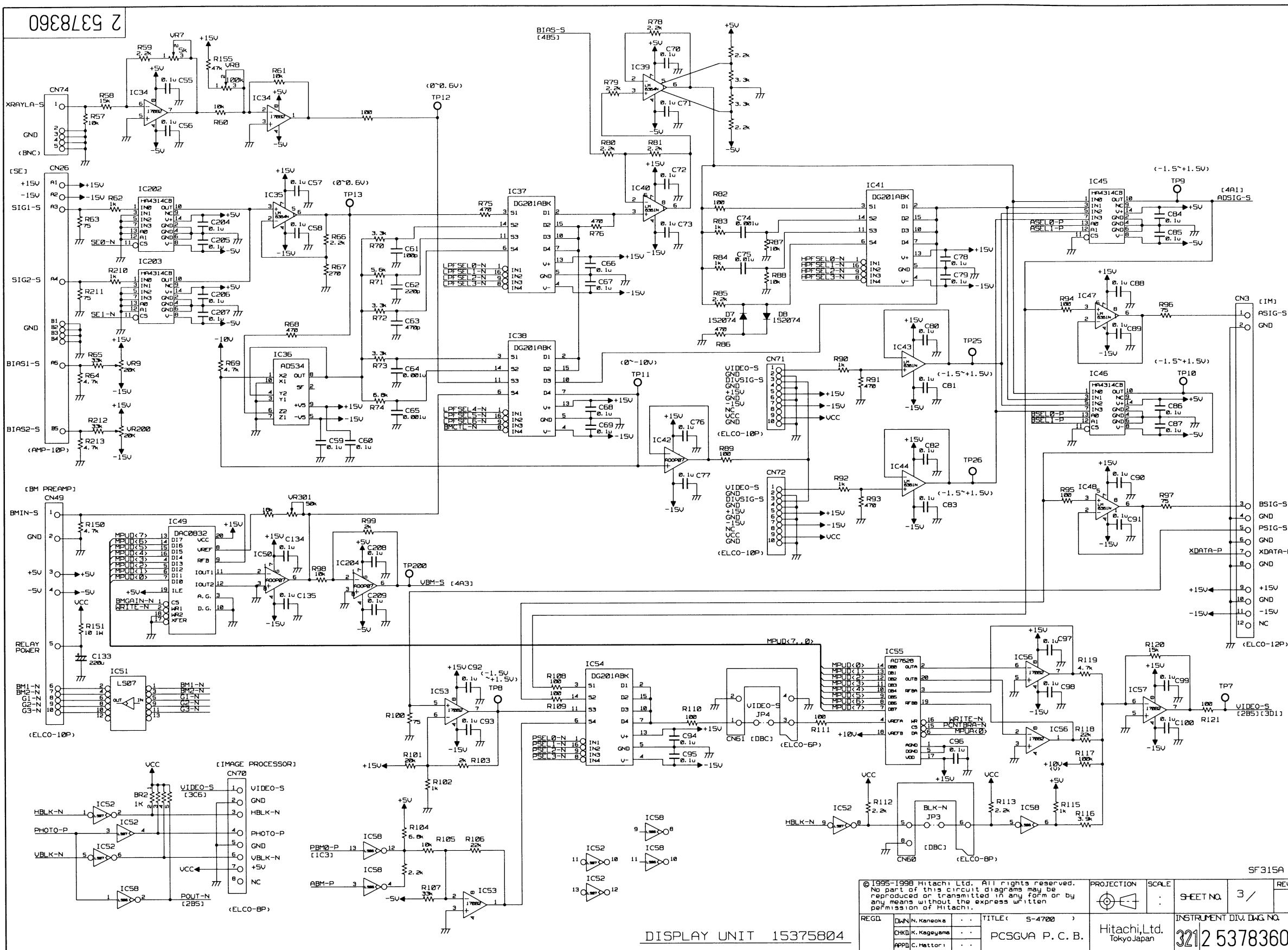
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REGD.	DWN	K. Kageyama	..	TITLE(S-4700)
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APPD	C. Hattori	..	Hitachi, Ltd. Tokyo Japan			

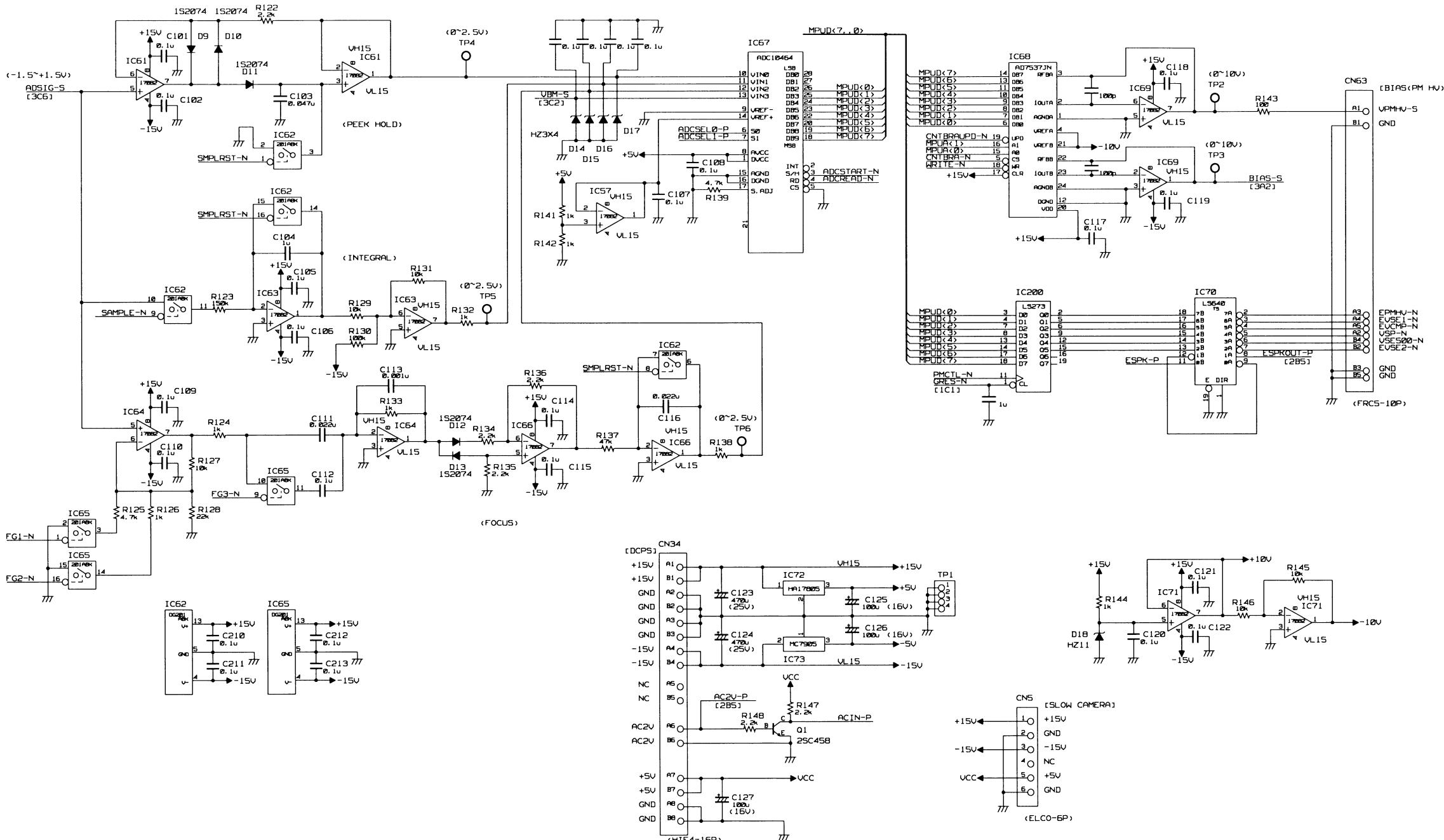
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INSTRUMENT DIV. DWG NO.				
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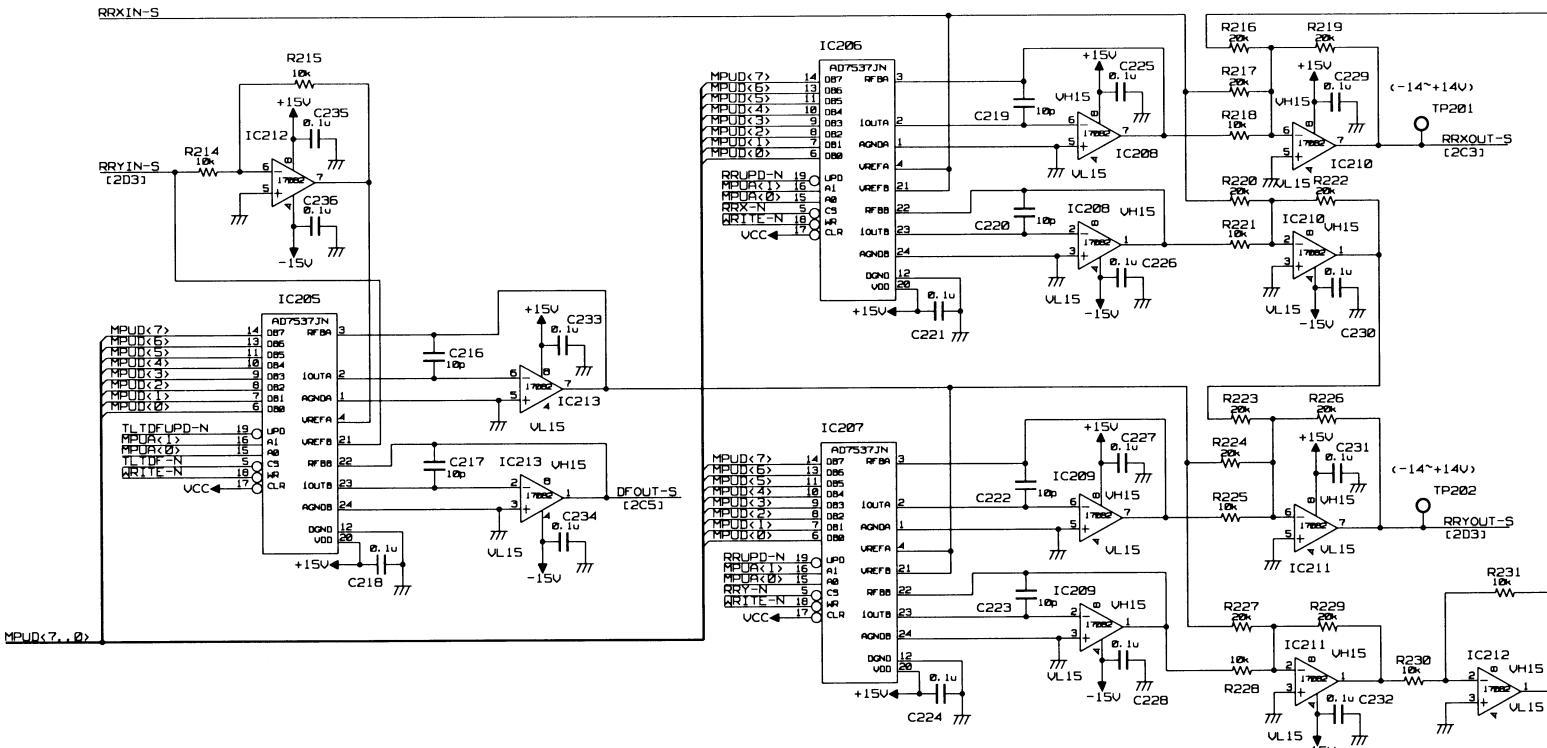
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CHKD	N. Kaneko	S-4700				
APPD	K. Kageyama					
	C. Matorri	PCSGVA P. C. B.	Hitachi Ltd.	Tokyo, Japan	3212 5378360	

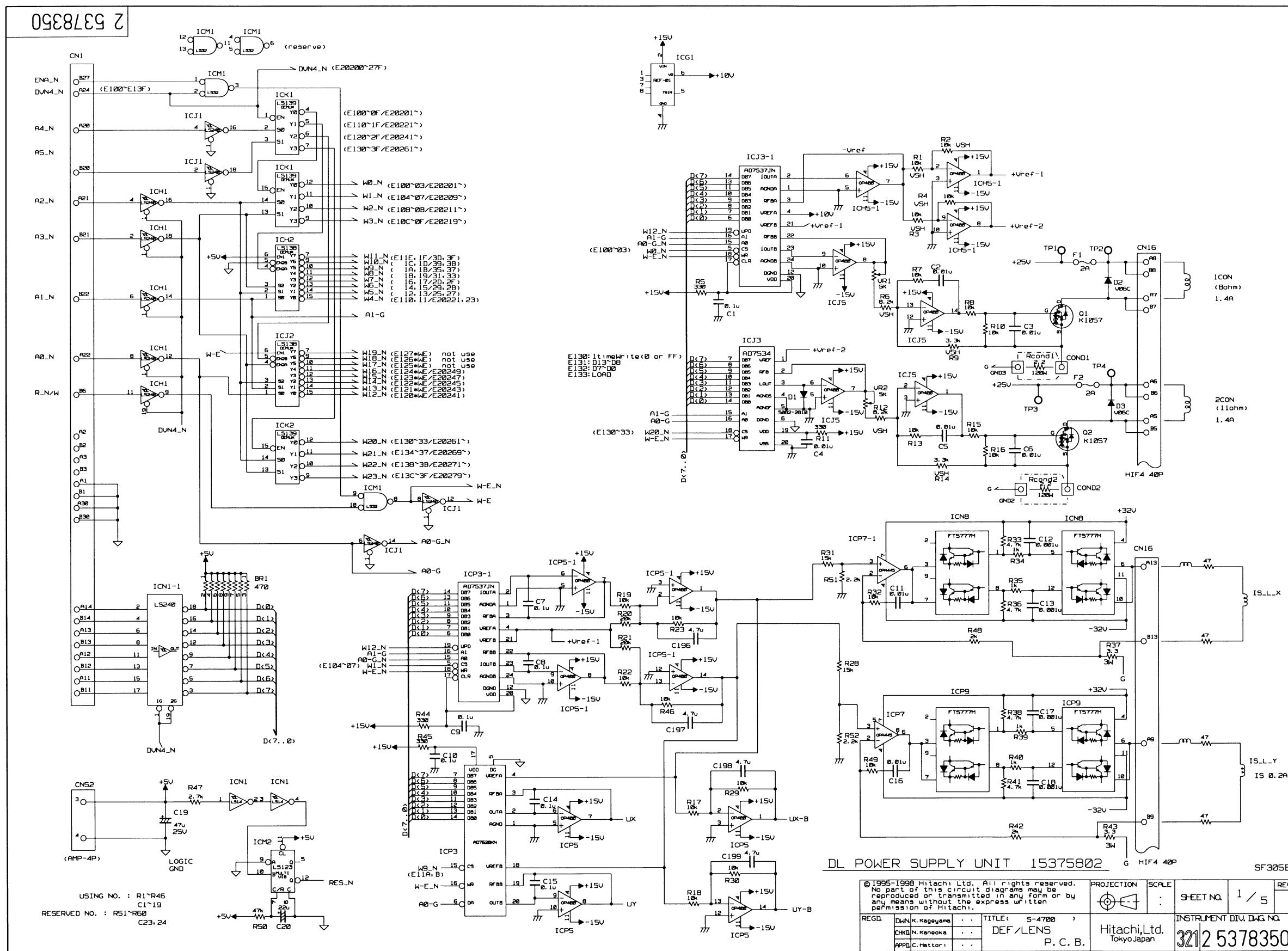
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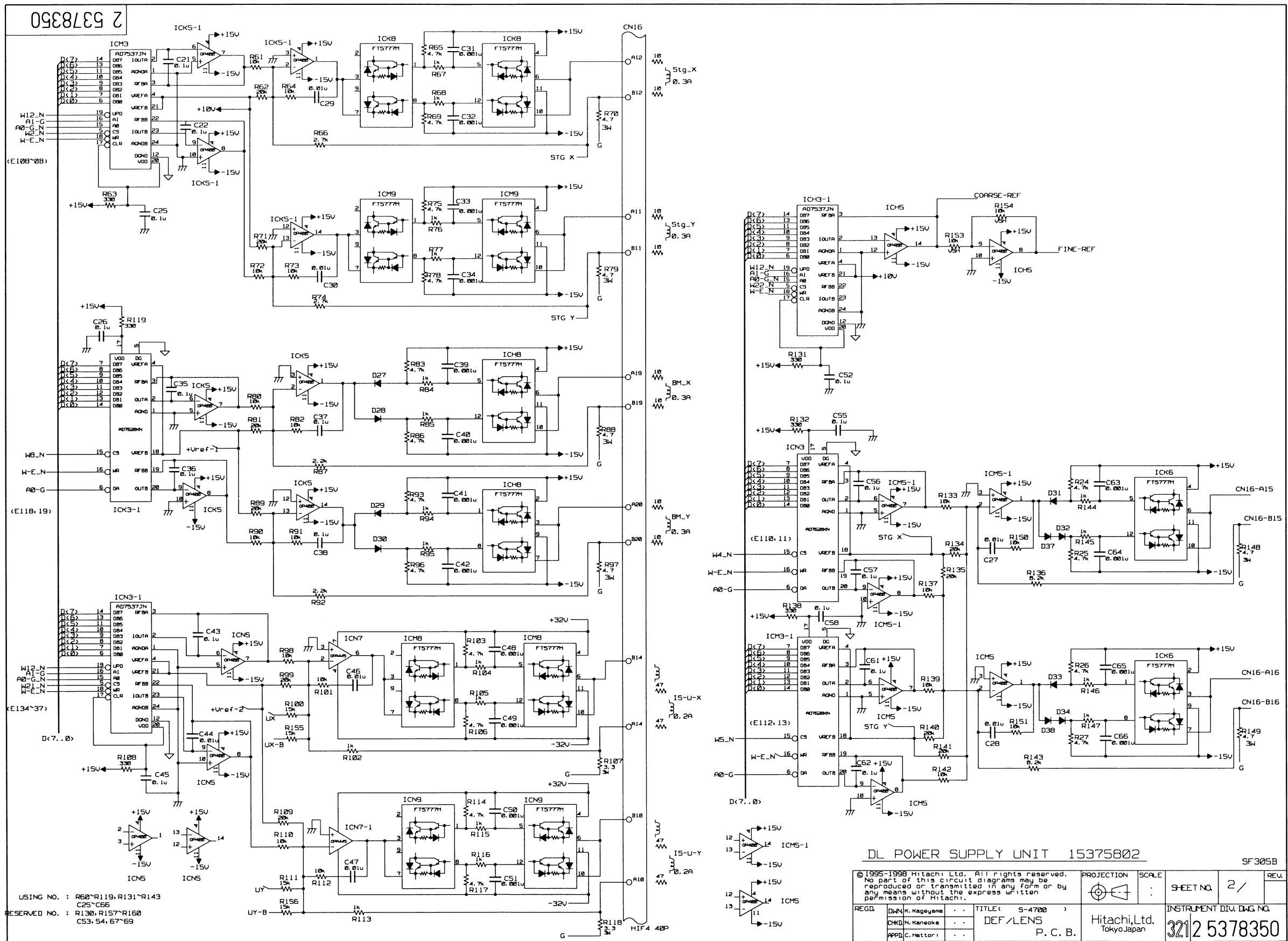
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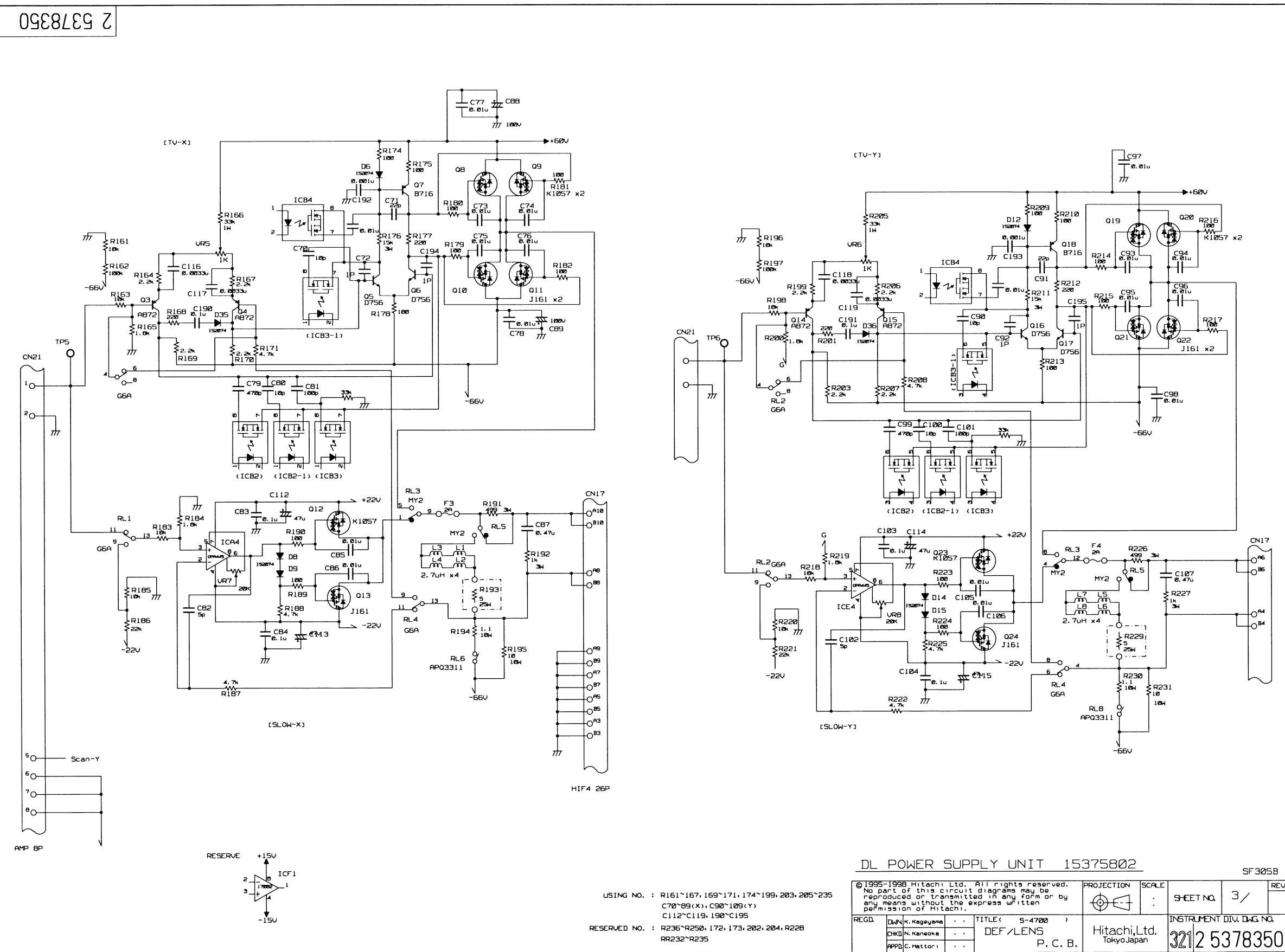
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	CHG'D.	K. Kageyama	.. .	PCSGVA P. C. B.	Hitachi,Ltd.				3212 5378360
	APP'D.	C. Mather	.. .		Tokyo,Japan				

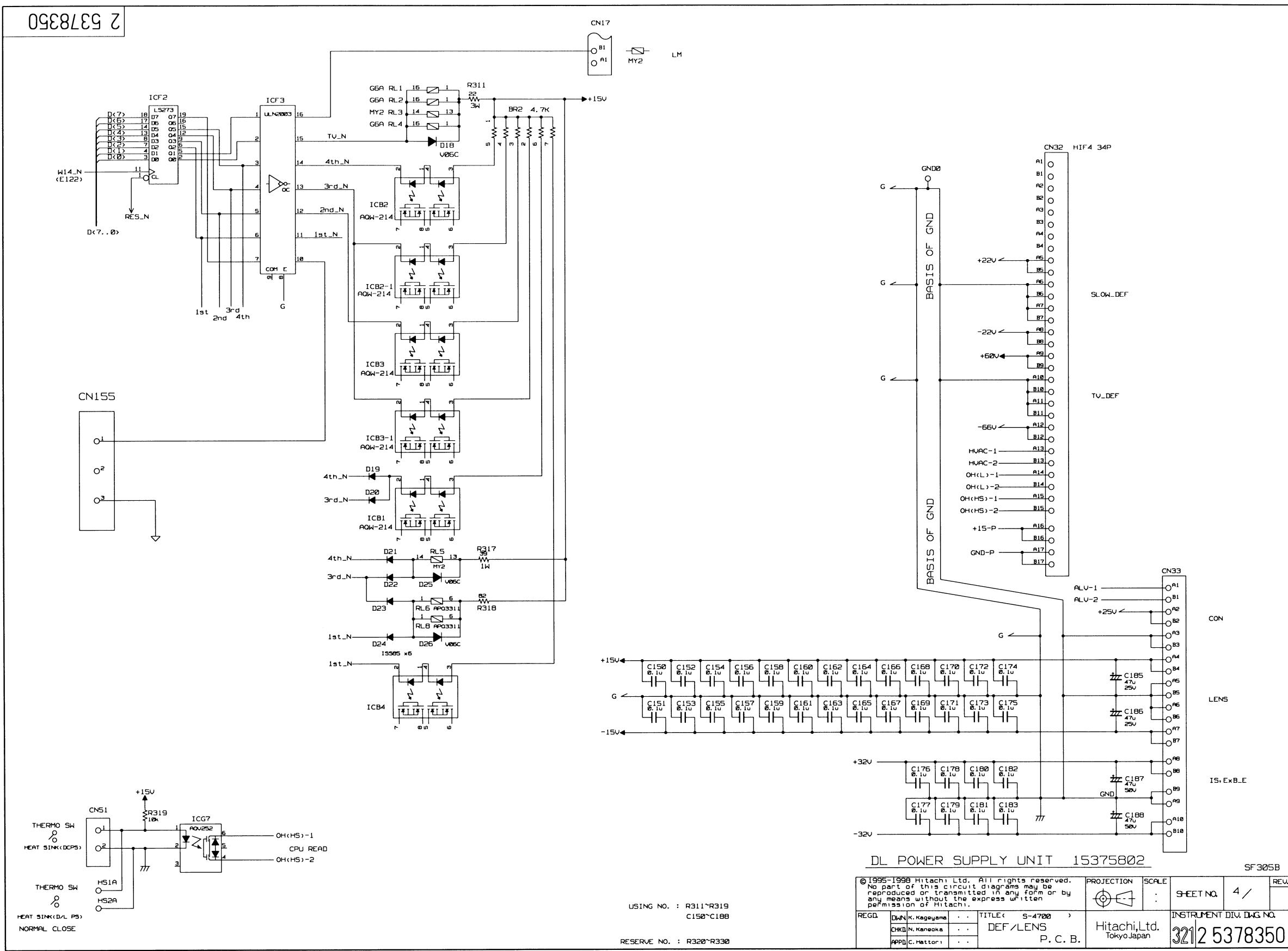


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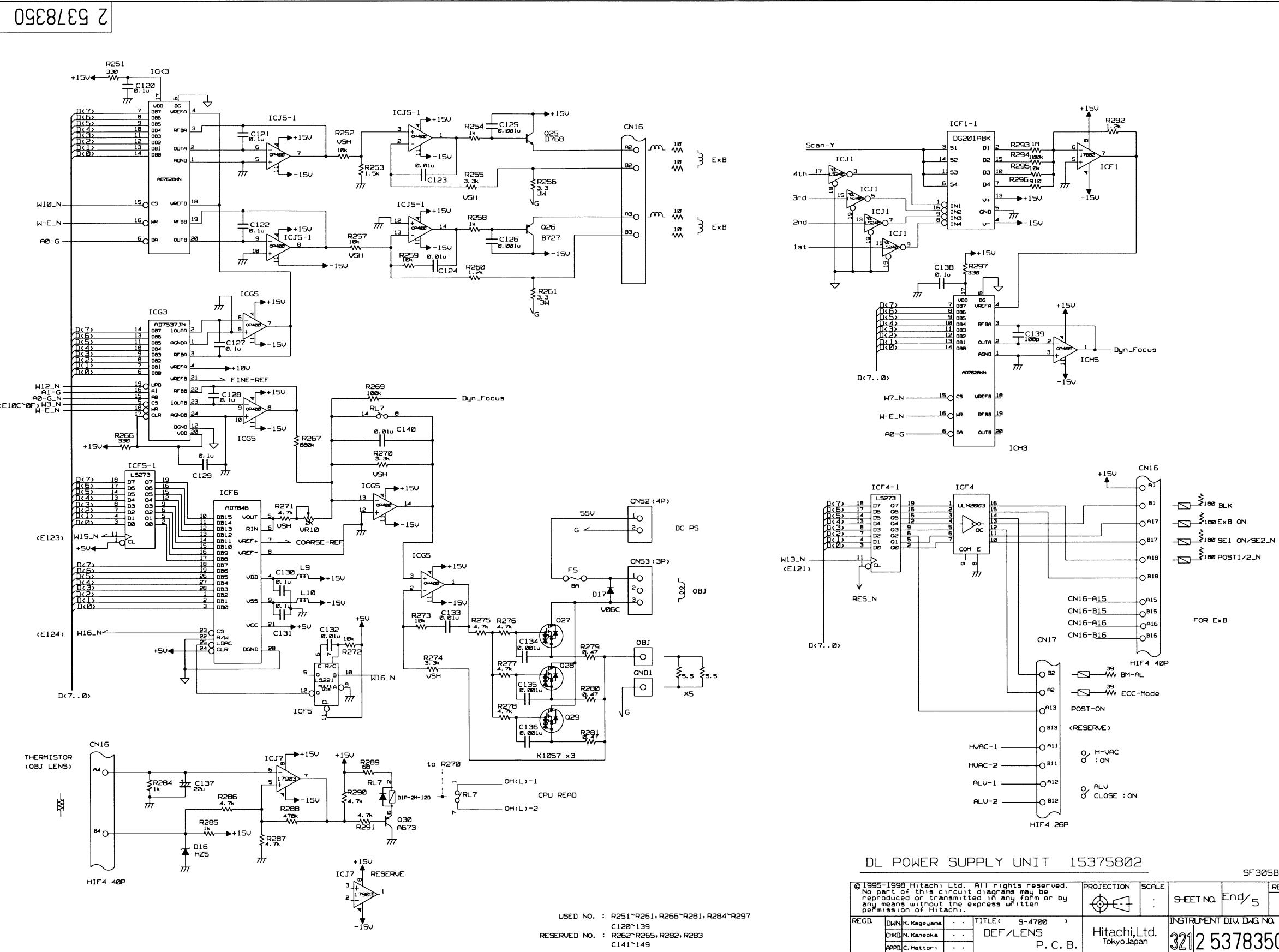


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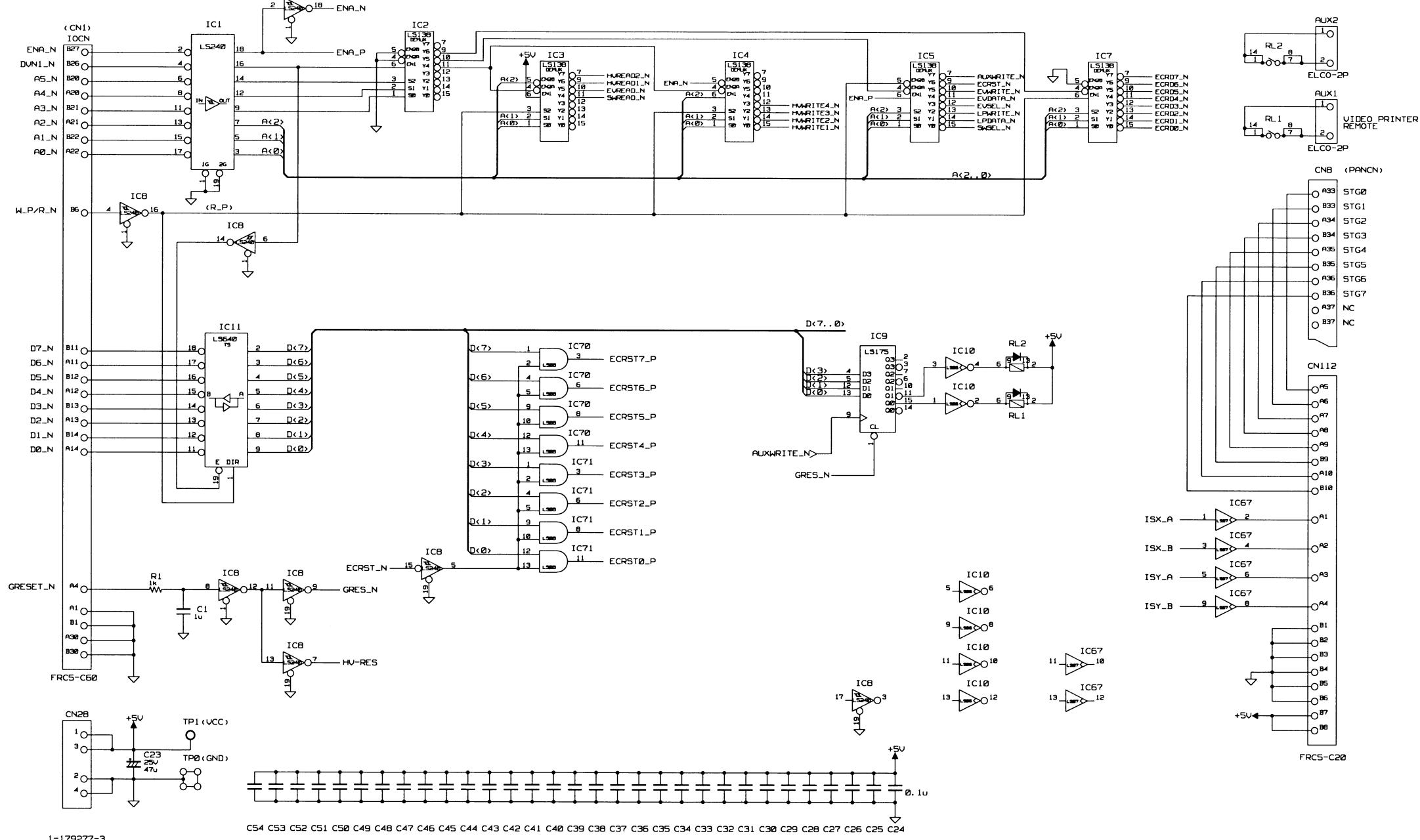




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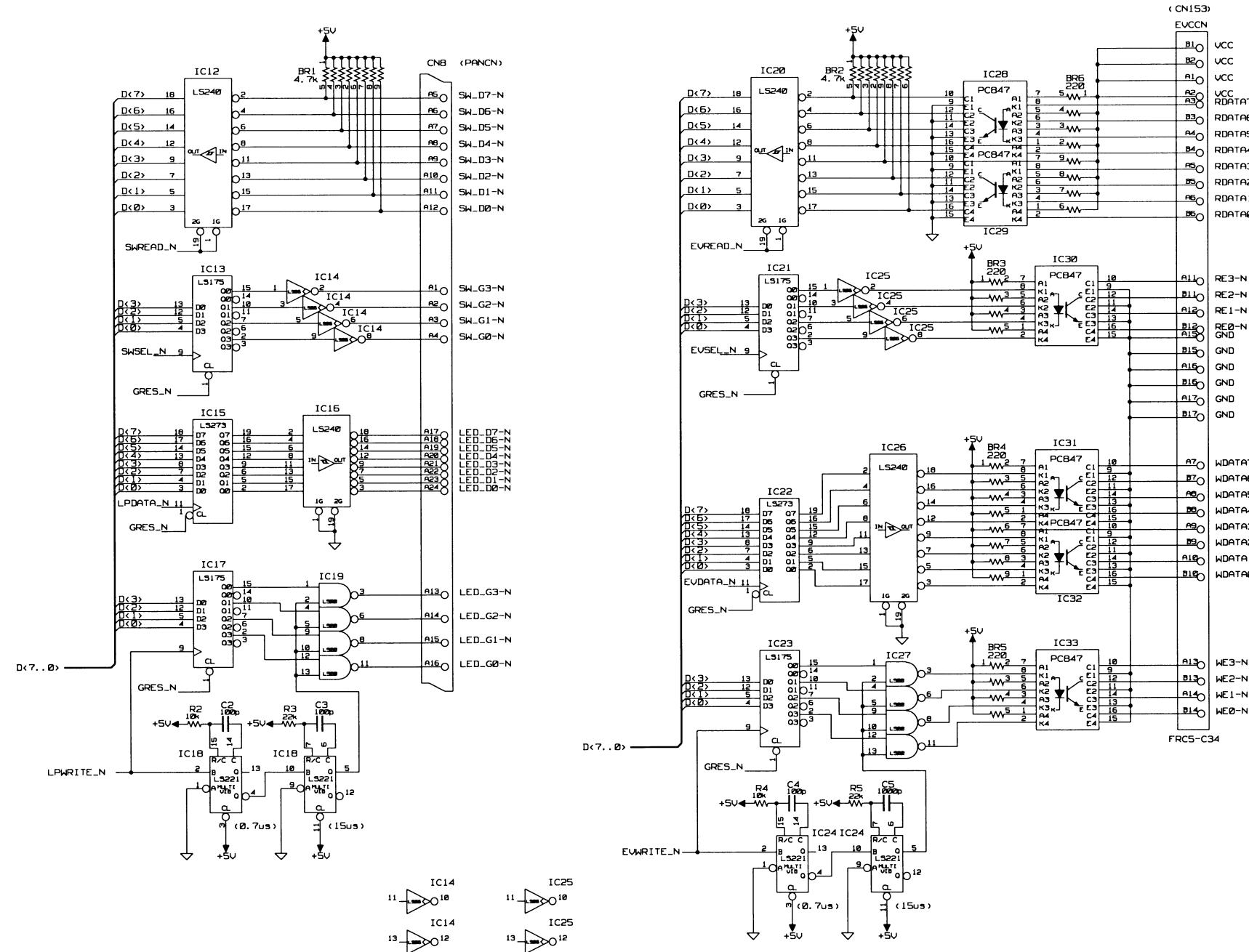
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SF502

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REGD: D/N: N. Kaneoka . . .	C/N: K. Kageyama . . .	TITLE: S-4700			1 / 4	
CHKD: C. Mettori . . .	APPD: C. Mettori . . .	IO P. C. B.	Hitachi,Ltd. Tokyo,Japan	321	25378361	

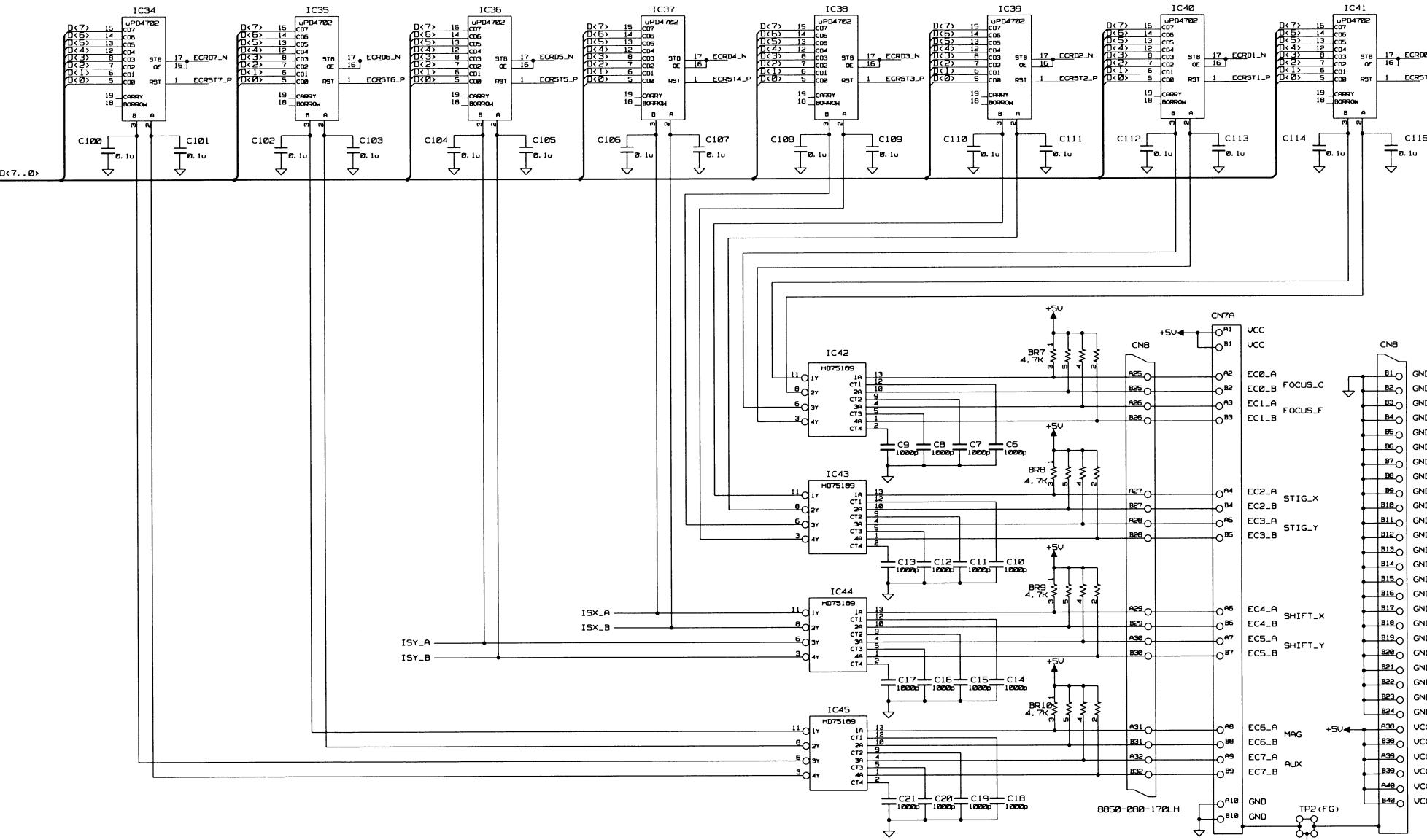


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PROJECTION				SCALE	SHEET NO.	REV.
				:	2/	
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REGD.	DINN N. Kaneko	..	TITLE(S-4700)			INSTRUMENT DIV. DWG NO
CHMD	K. Kagayama	..				
APPD	C. Hattori	..	IO P. C. B.	Hitachi,Ltd. Tokyo Japan		
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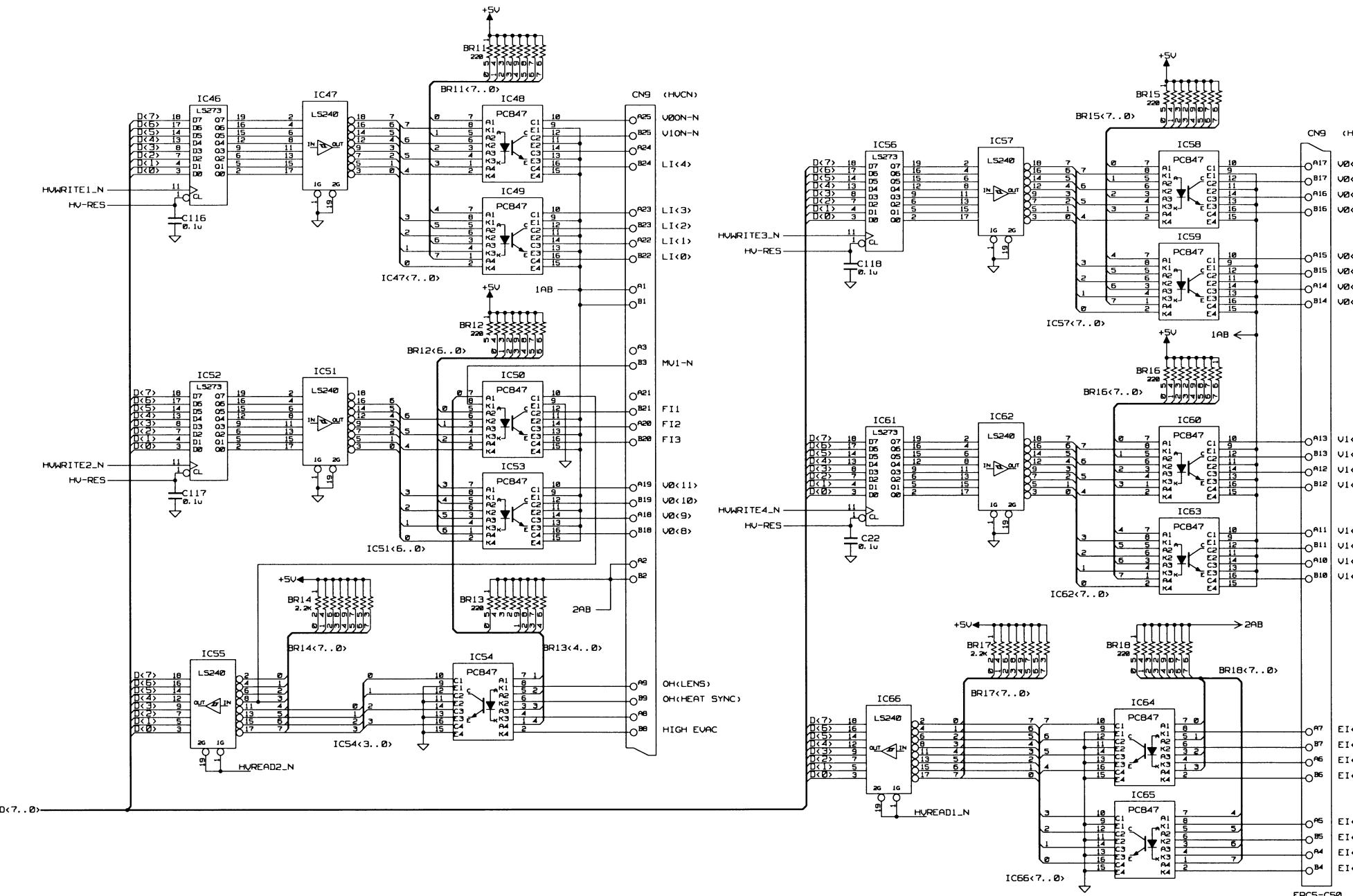


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REGD	DES	N. Kaneko	..	TITLE	S-4700	3 /	
CHKD	K. Kageyama	IO P. C. B.			
APPR	C. Matsumori	Hitachi,Ltd. Tokyo,Japan	INSTRUMENT DIV. Dwg. No.	321	2 5378361

2 5378361



DISPLAY UNIT 15375843

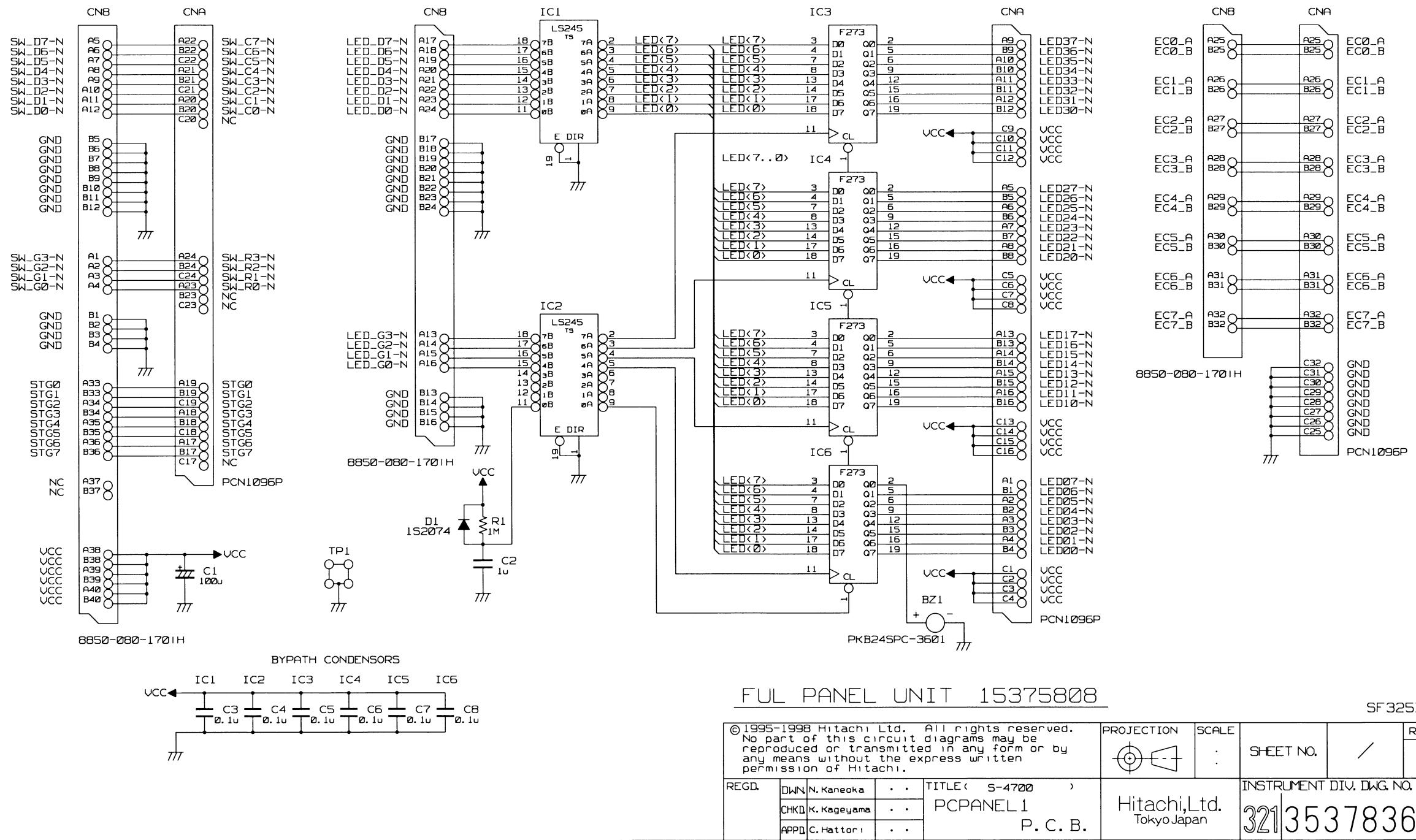
SF502

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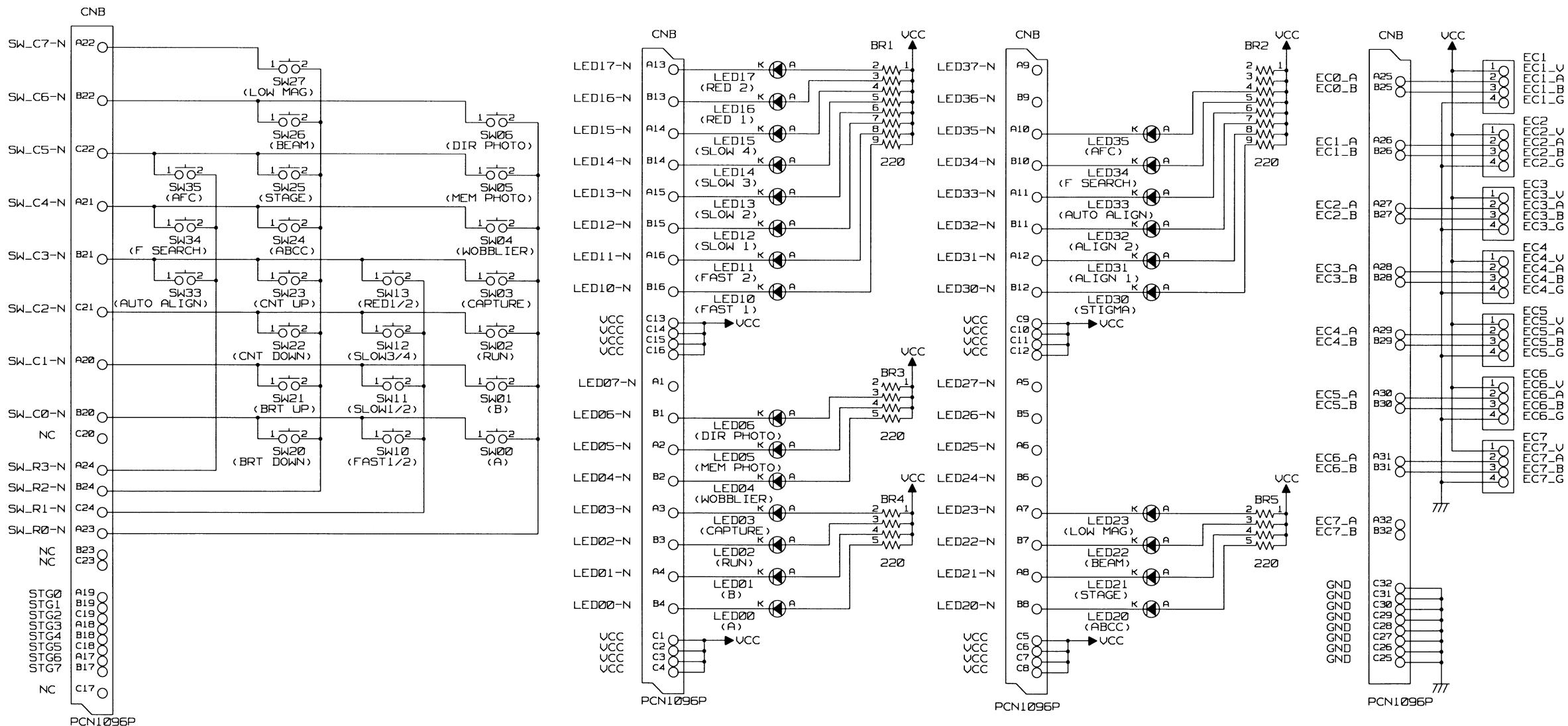
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OKD	K. Kageyama ..	IO P. C. B.	Hitachi,Ltd.				
APPD	C. Matori ..		Tokyo,Japan				

INSTRUMENT DIV. DWG NO. 3212 5378361

35378362



35378363



FUL PANEL UNIT 15375808

SF326B

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REGD	DWN	N. Kaneoka	• •	TITLE: S-4700	:	/	
CHKD	K. Kageyama	• •		PCPANEL2			
APPD	C. Hattori	• •		P. C. B.			

INSTRUMENT DIV. DWG. NO.
32135378363

Hitachi,Ltd.
Tokyo Japan

2 5378358

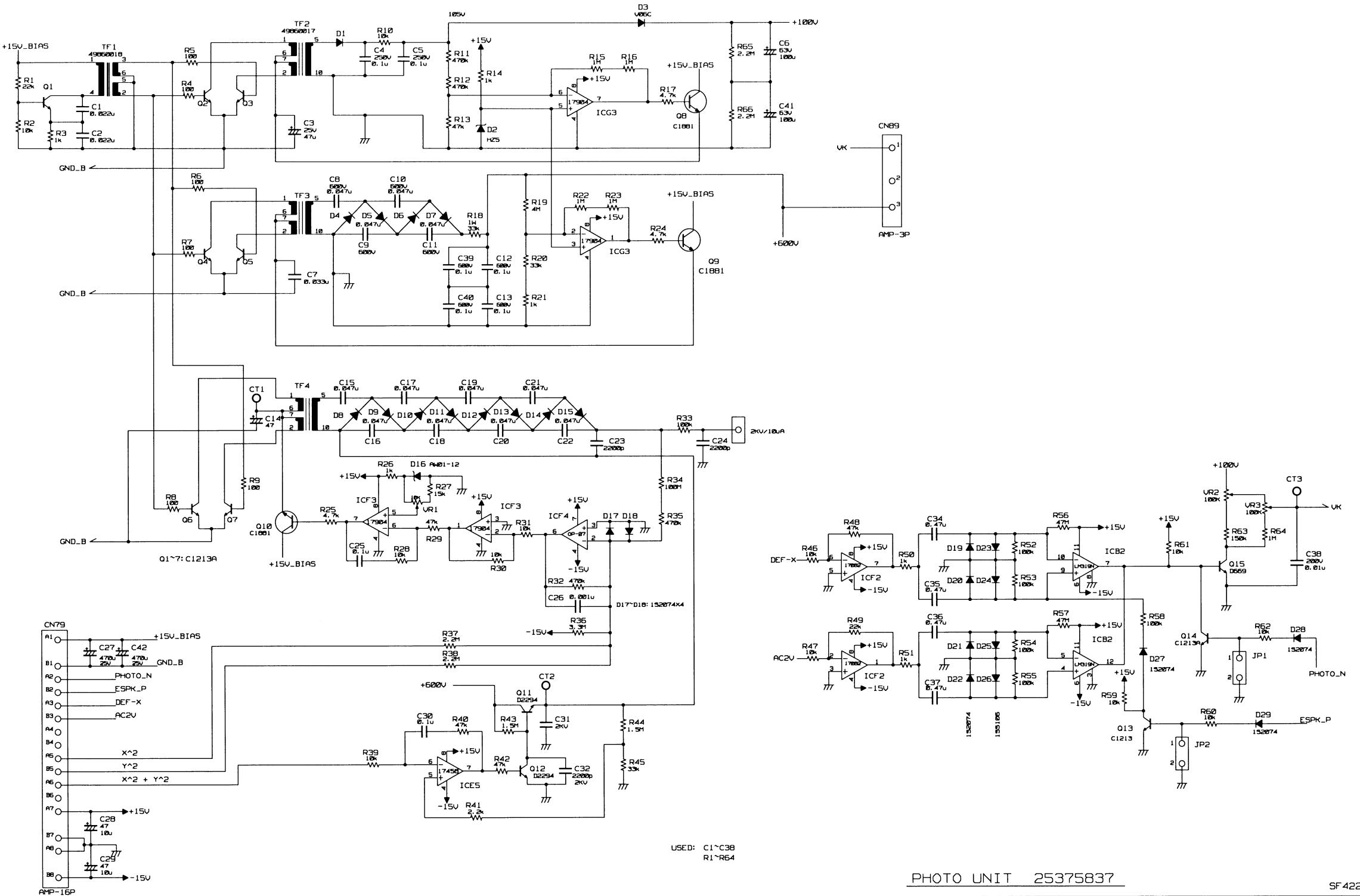


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SF 422A

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REGD	DINN	K. Kageyama	.. .	TITLE(S-4700)	+ -	INSTRUMENT DIV. DWG NO.
	CHND	N. Kaneko	.. .	PHOTO-1		
	APPD	C. Matori	.. .	P. C. B.	Hitachi,Ltd. Tokyo Japan	3212 5378358

2 5378359

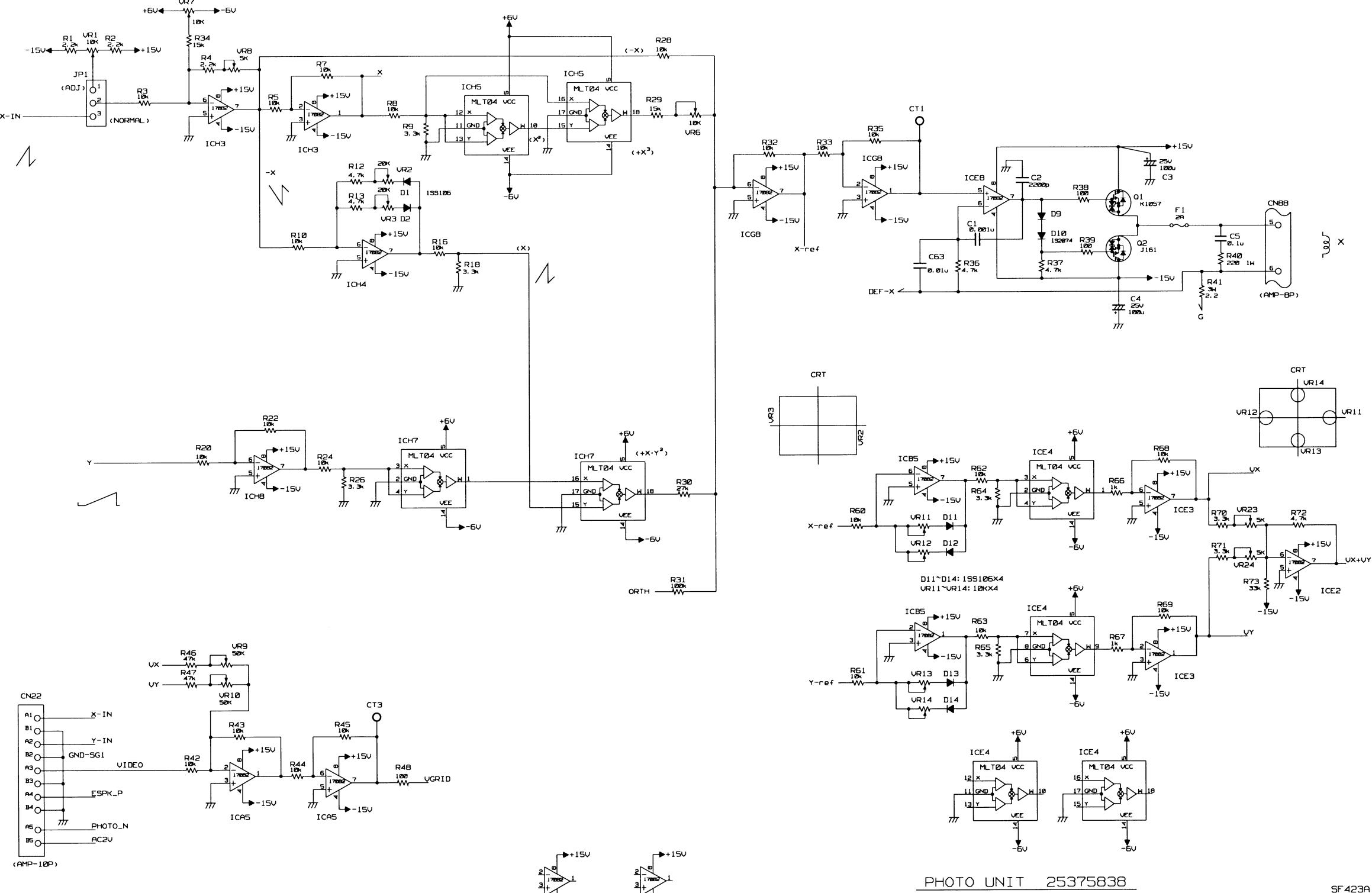


PHOTO UNIT 25375838

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REGD	DNN	K.Kageyama	TITLE	S-4700	PROJECTION	SCALE	SHEET NO	1 / 2	REV.
CHKD	N.Kaneko			PHOTO-2					
APPD	C.Mattoni			P.C.B					

Hitachi,Ltd.
Tokyo,Japan
3212 5378359

2 5378359

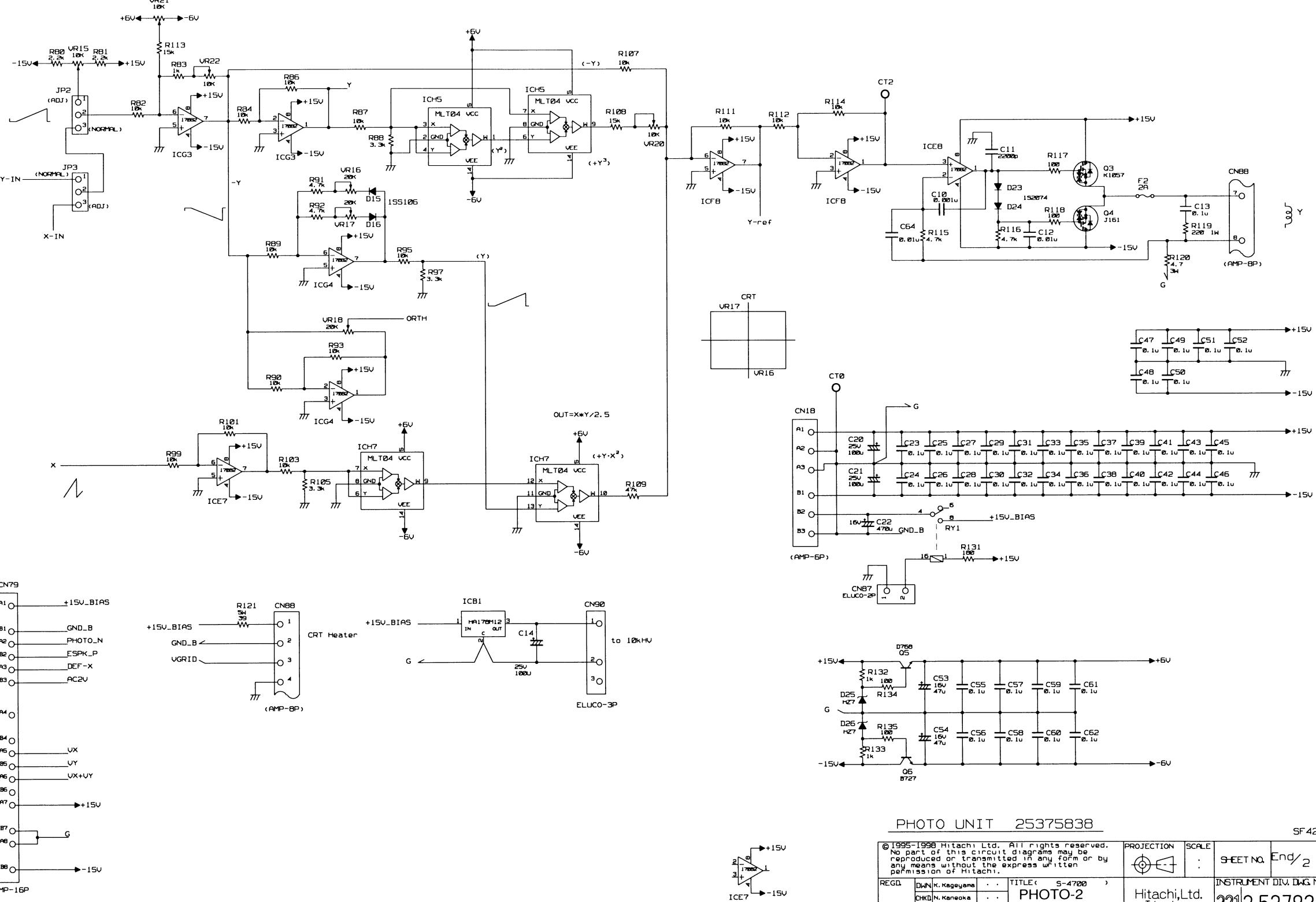


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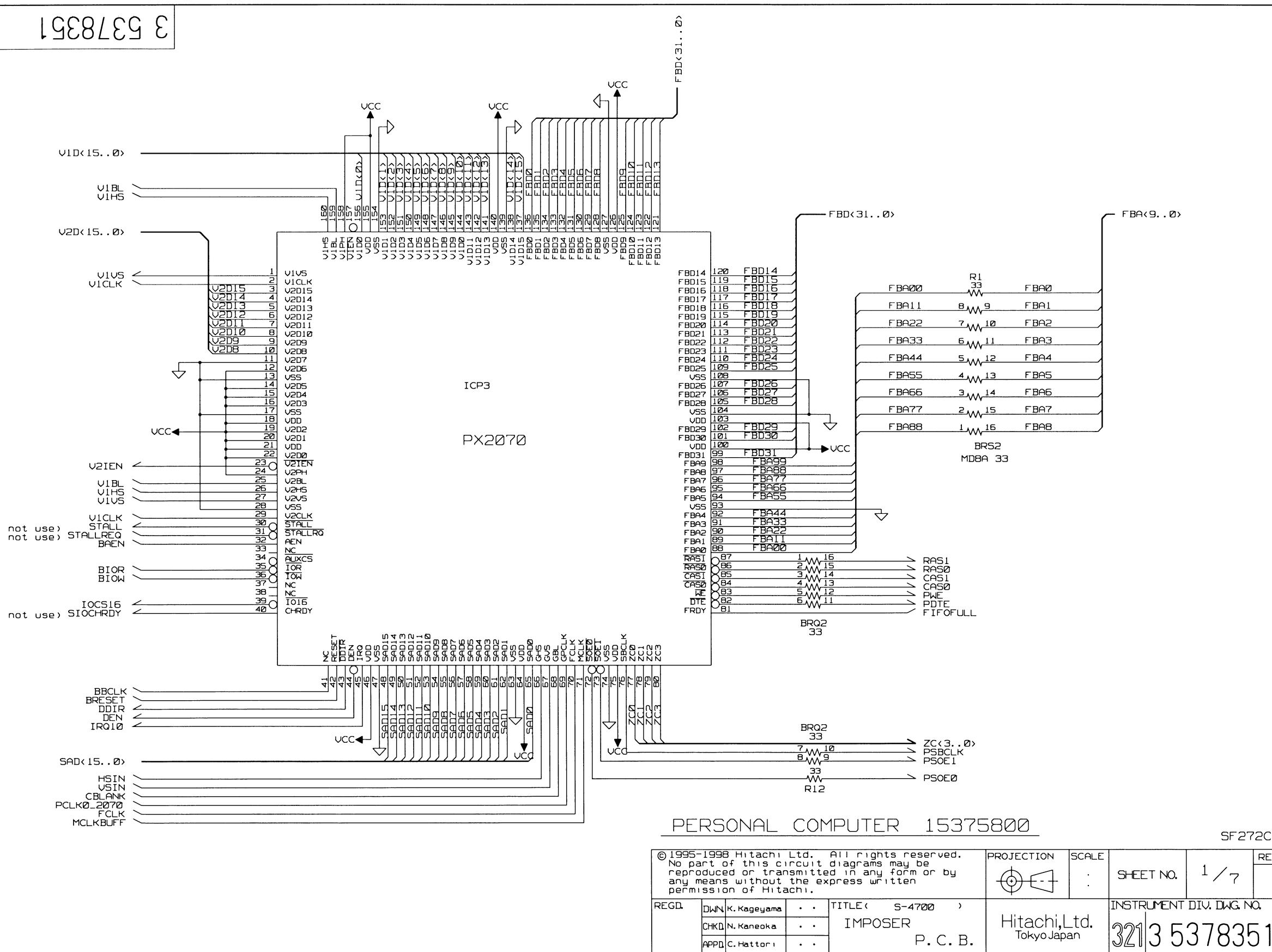
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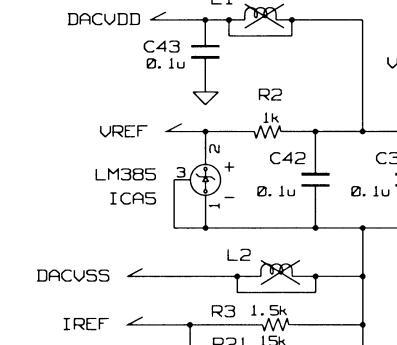
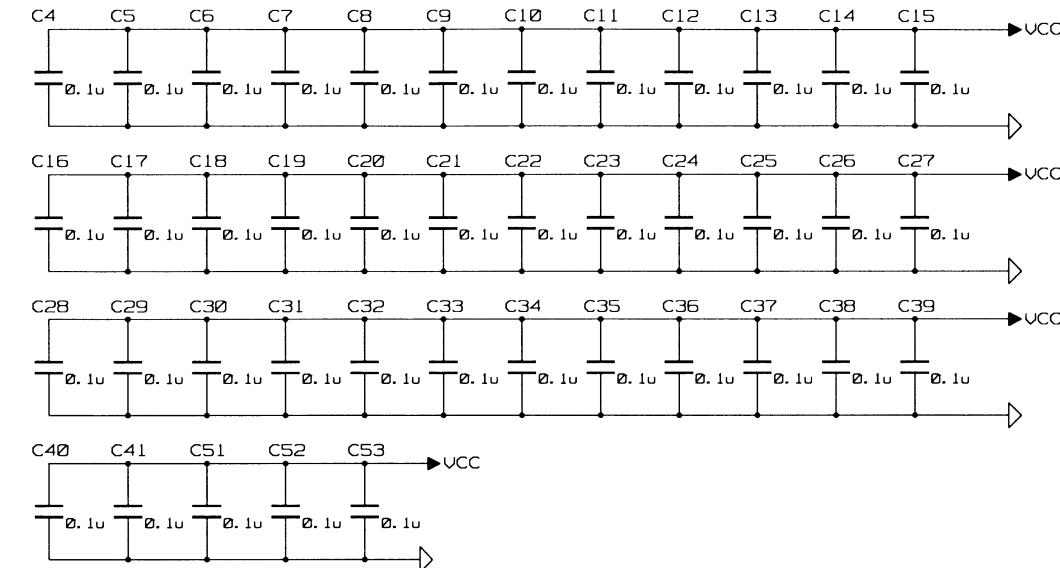
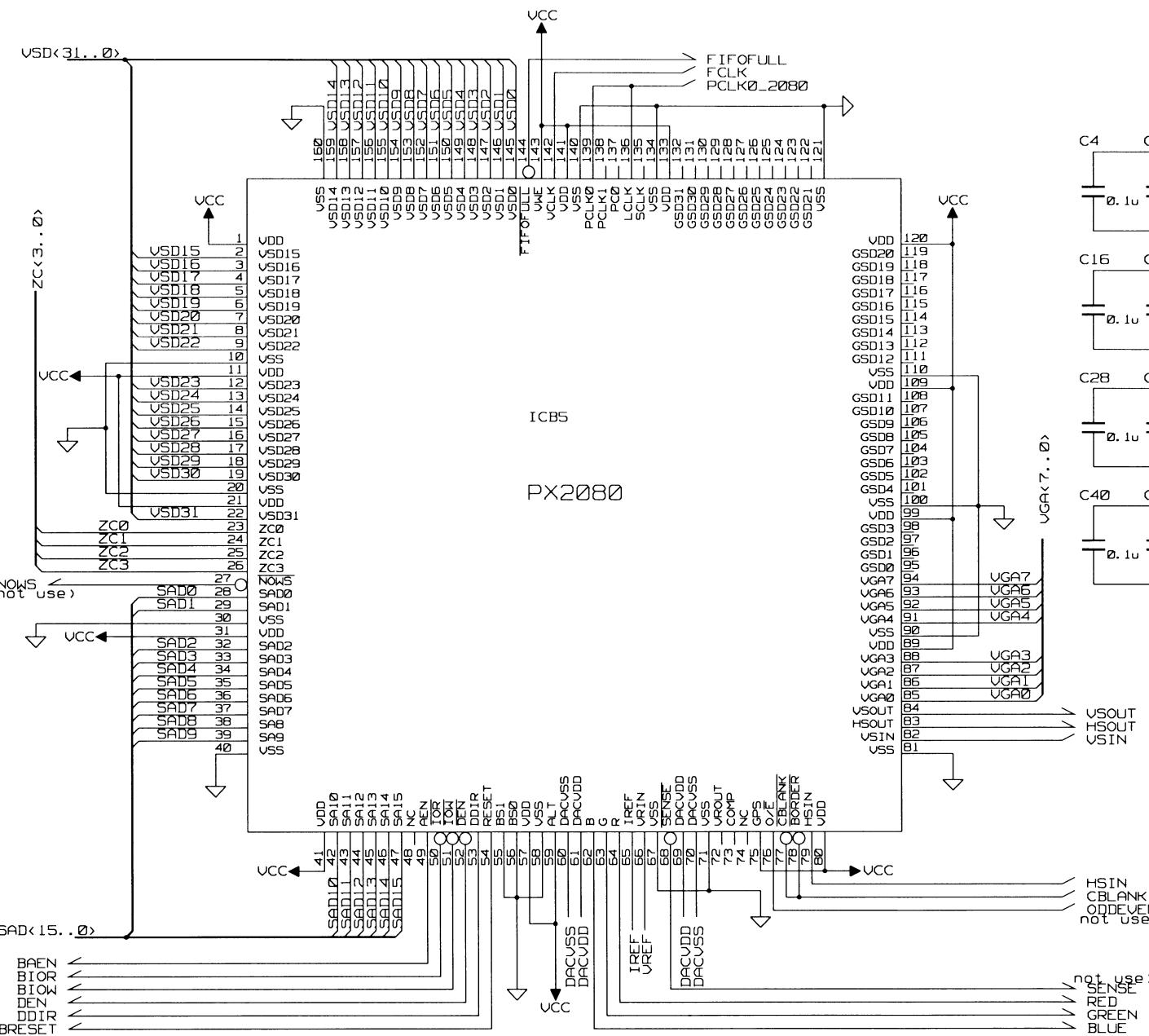
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CHKD	N.Kaneoka	PHOTO-2				
APPD	C.Mattoni	P.C.B.				
					Hitachi,Ltd. Tokyo,Japan			

INSTRUMENT DIV. DWG NO.
3212 5378359

3 5378351



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PERSONAL COMPUTER 15375800

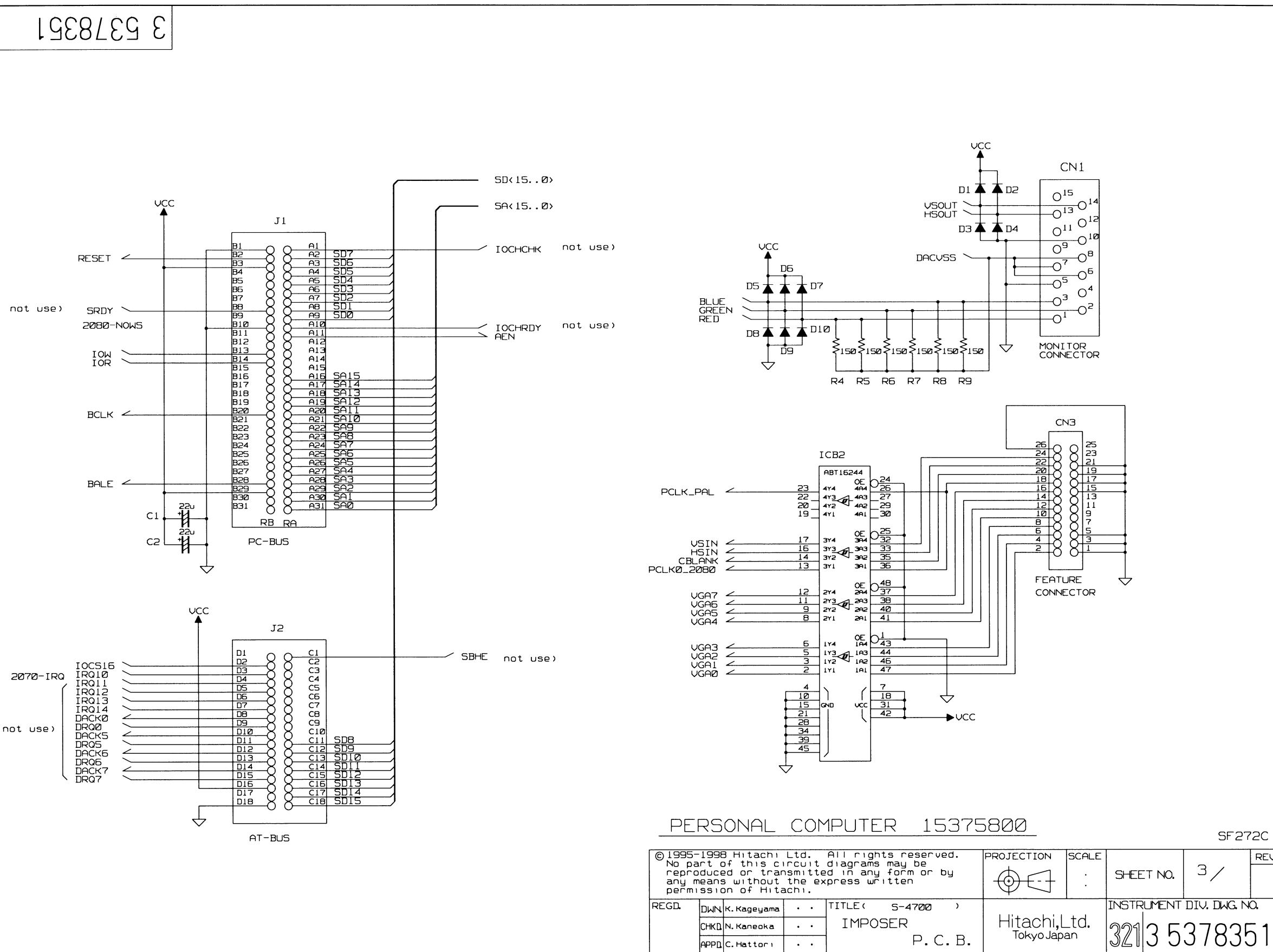
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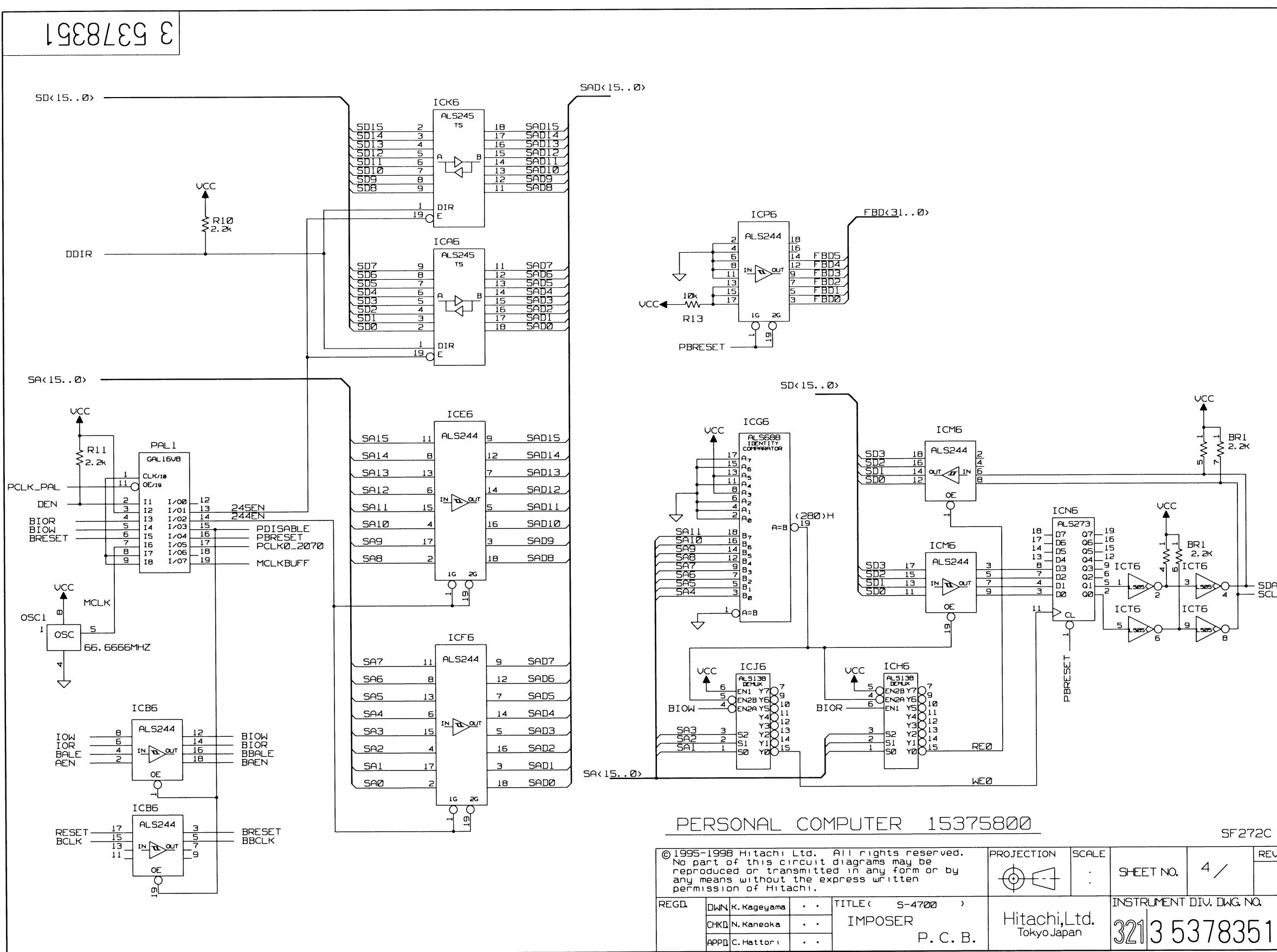
REG'D	DWN	K. Kageyama	..	TITLE	S-4700	PROJECTION	SCALE	SHEET NO.	2 /	REV.
CHK'D		N. Kaneoka	..	IMPOSER						
APP'D		C. Hattori	..	P. C. B.						

INSTRUMENT DIV. DWG. NO.
Hitachi, Ltd.
Tokyo, Japan
3213 5378351

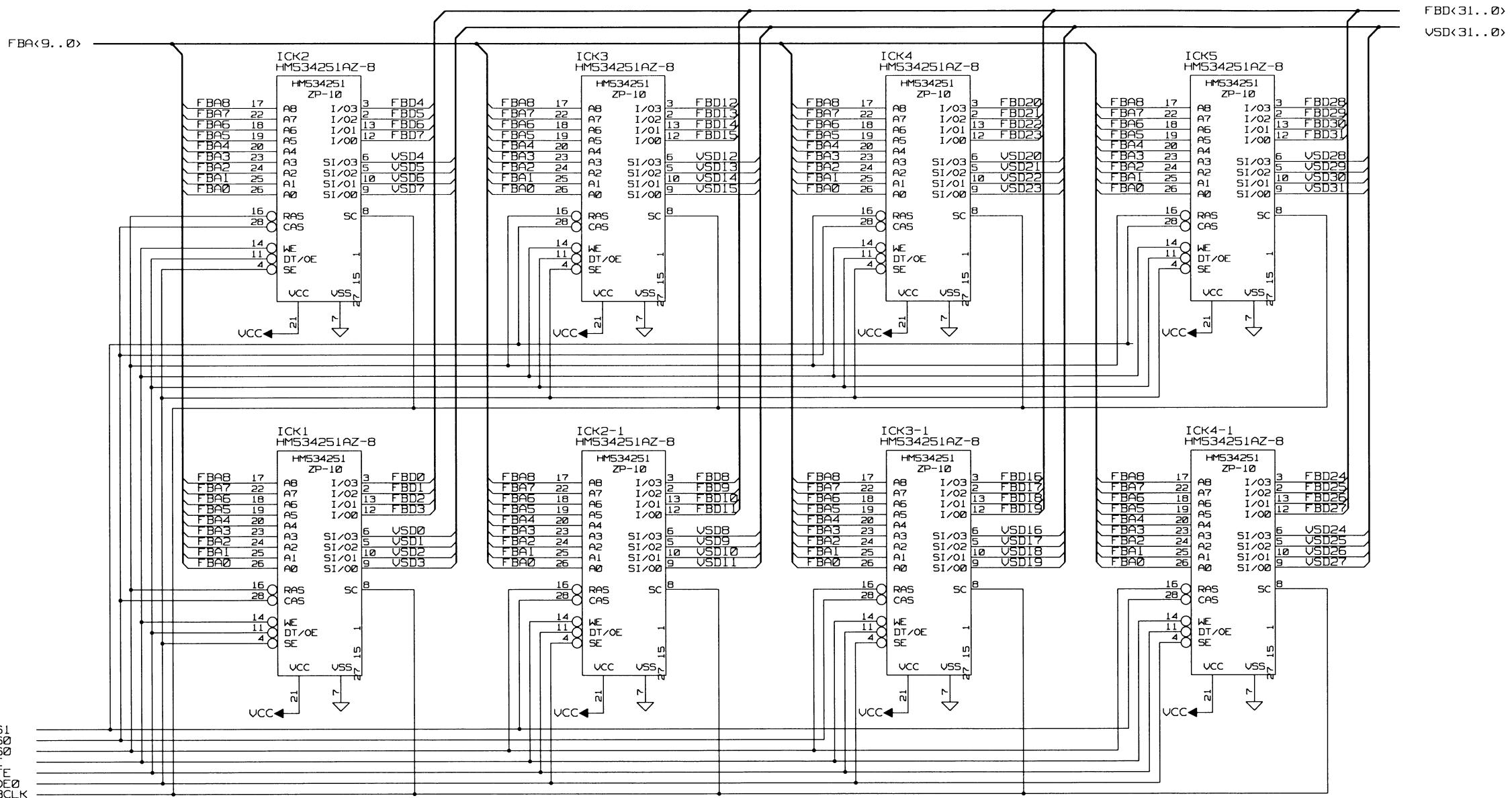
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PERSONAL COMPUTER 15375800

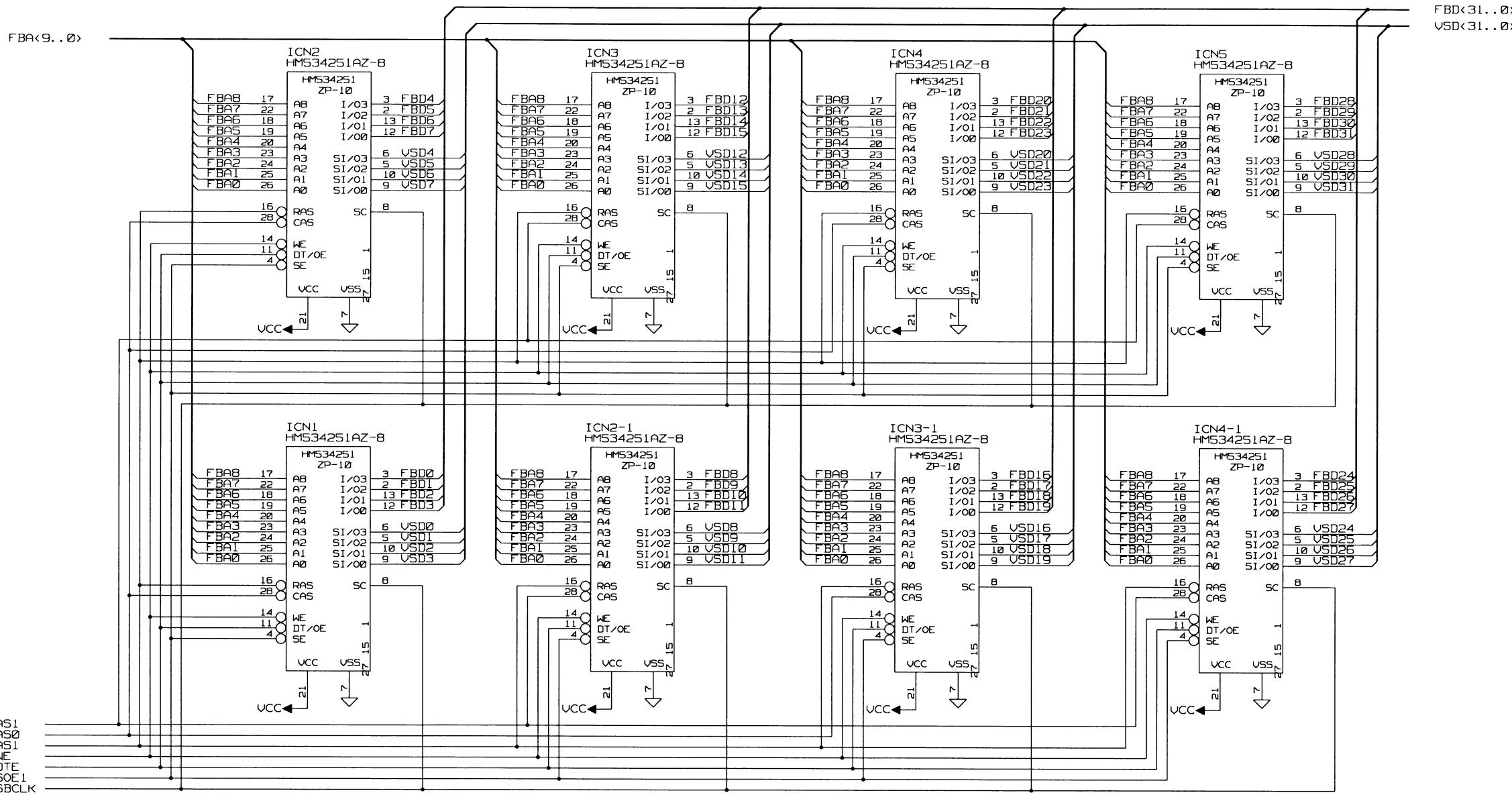
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REGD.	DWN	K. Kageyama	• •	TITLE	S-4700
	CHKD	N. Kaneko	• •	IMPOSER	
	OPRD	C. Hattori	• •	P. C. B.	

PROJECTION	SCALE	SHEET NO.	5 /	REV.
	:			
INSTRUMENT DIV. DWG. NO.				
Hitachi, Ltd. Tokyo Japan		3213 5378351		

3 5378351



PERSONAL COMPUTER 15375800

SF272C

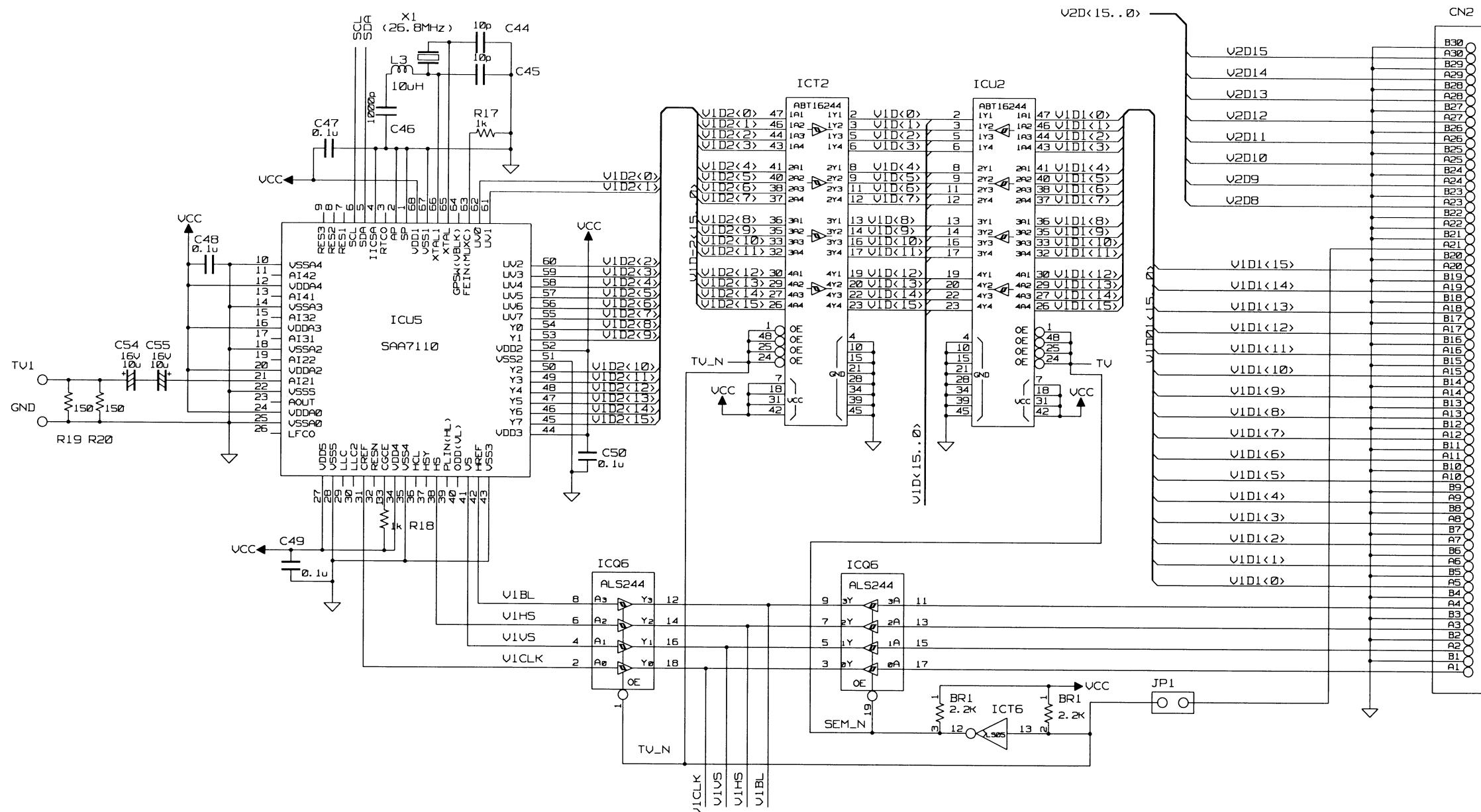
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				IMPOSER						
		N. Kaneko	• •							
		C. Hattori	• •	P. C. B.						

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Tokyo Japan

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321 3 5378351

3 5378351



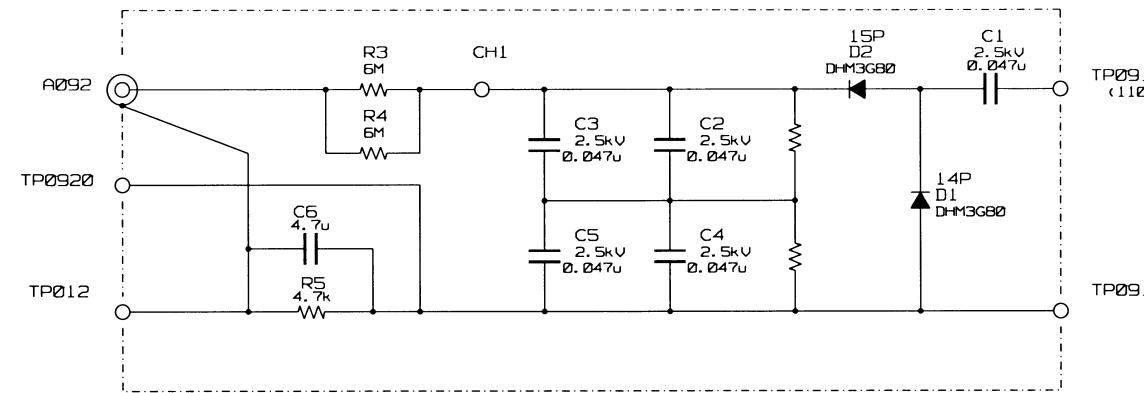
PERSONAL COMPUTER 15375800

SF272C

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REGD	DWN	K. Kageyama	TITLE	PROJECTION	SCALE	SHEET NO.	REV.
CHKD	N. Kaneko	..	S-4700	End / 7	
APPD	C. Hattori	..	IMPOSER	INSTRUMENT DIV. DWG. NO.	
			P. C. B.	Hitachi,Ltd.	Tokyo Japan	321	3 5378351

3 5897250



SEQUENCE UNIT 25890050

CAD K0106

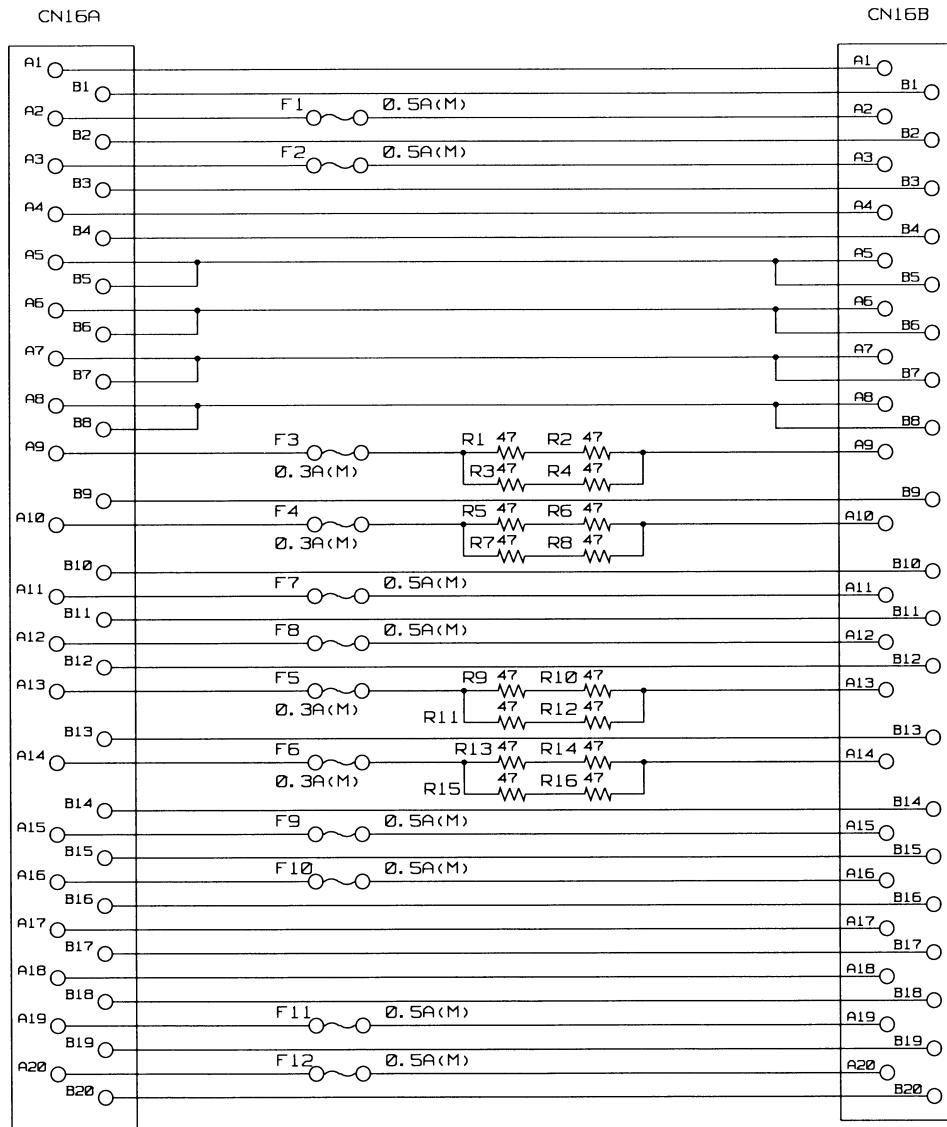
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	CHKD	N. Kaneoka	..	PE. HV P. C. B.
	APPD	C. Hattori	..	Hitachi,Ltd. TokyoJapan

PROJECTION	SCALE	SHEET NO.	REV.
	:	/	

INSTRUMENT DIV. DWG. NO.	
321	3 5897250

3



SF469

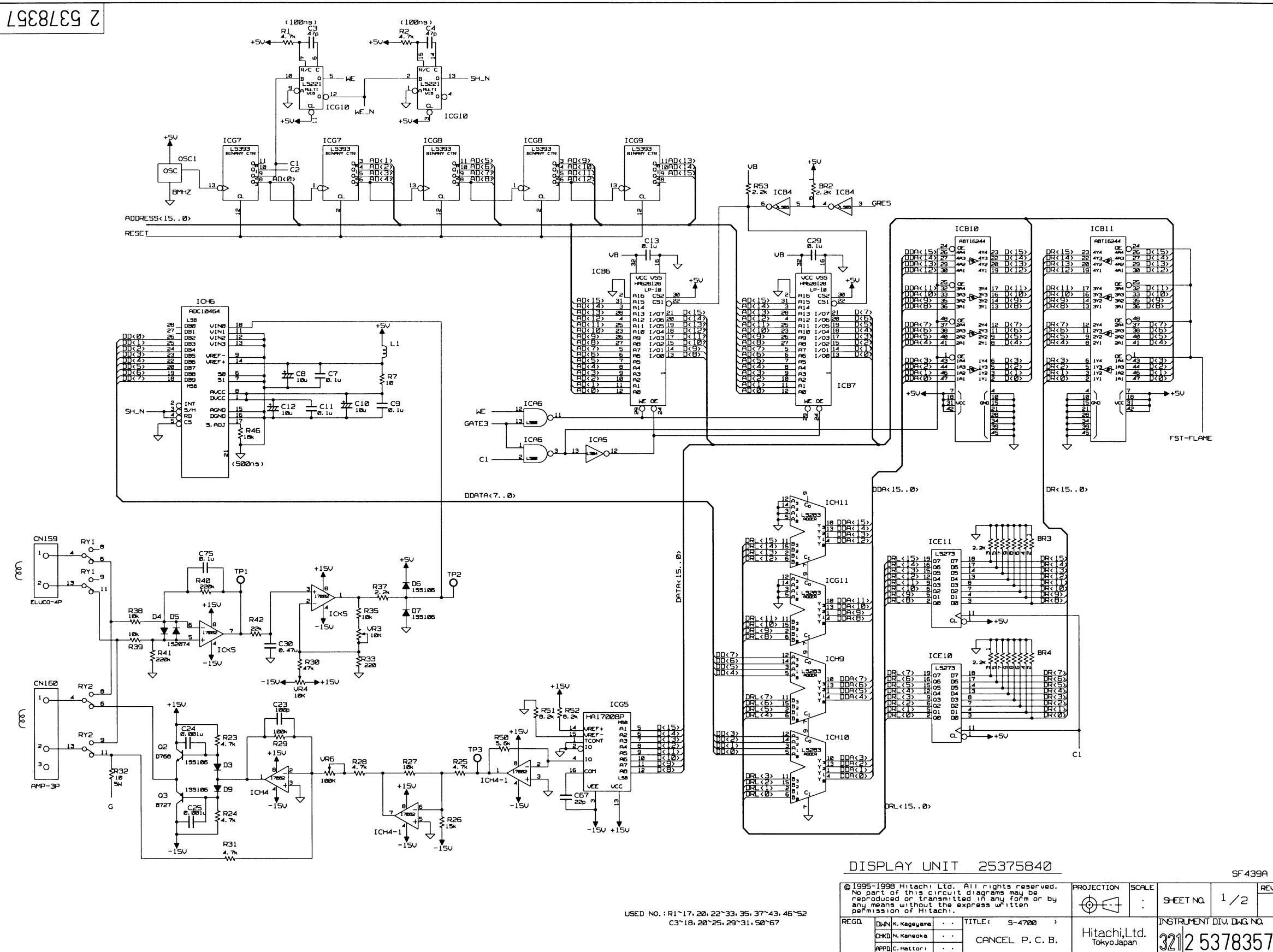
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CHKD	N. Kaneoka	..		FUSE P. C. B.
APPD	C. Hattori	..		

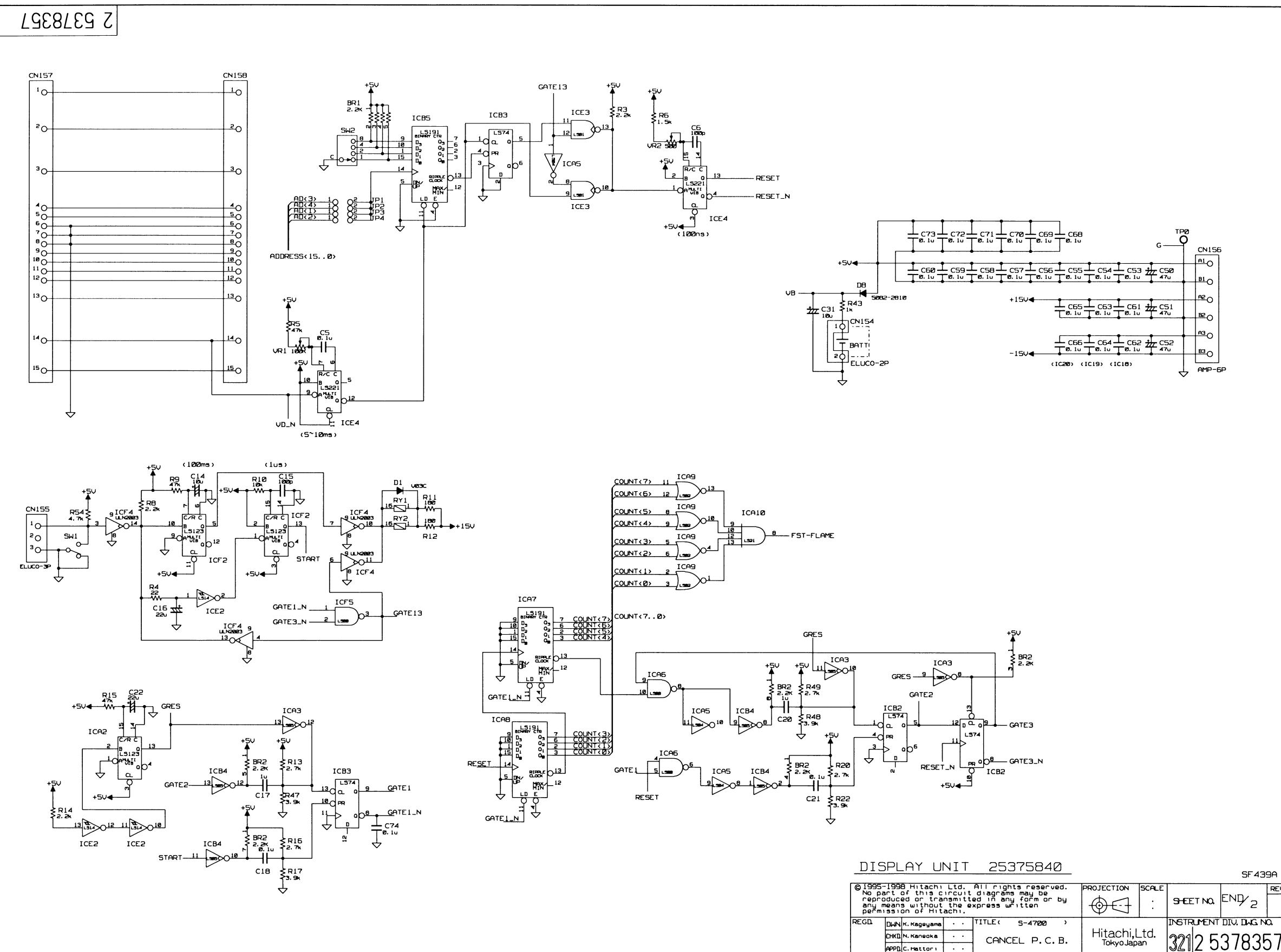
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	:			
INSTRUMENT DIV. DWG. NO.				
3213				

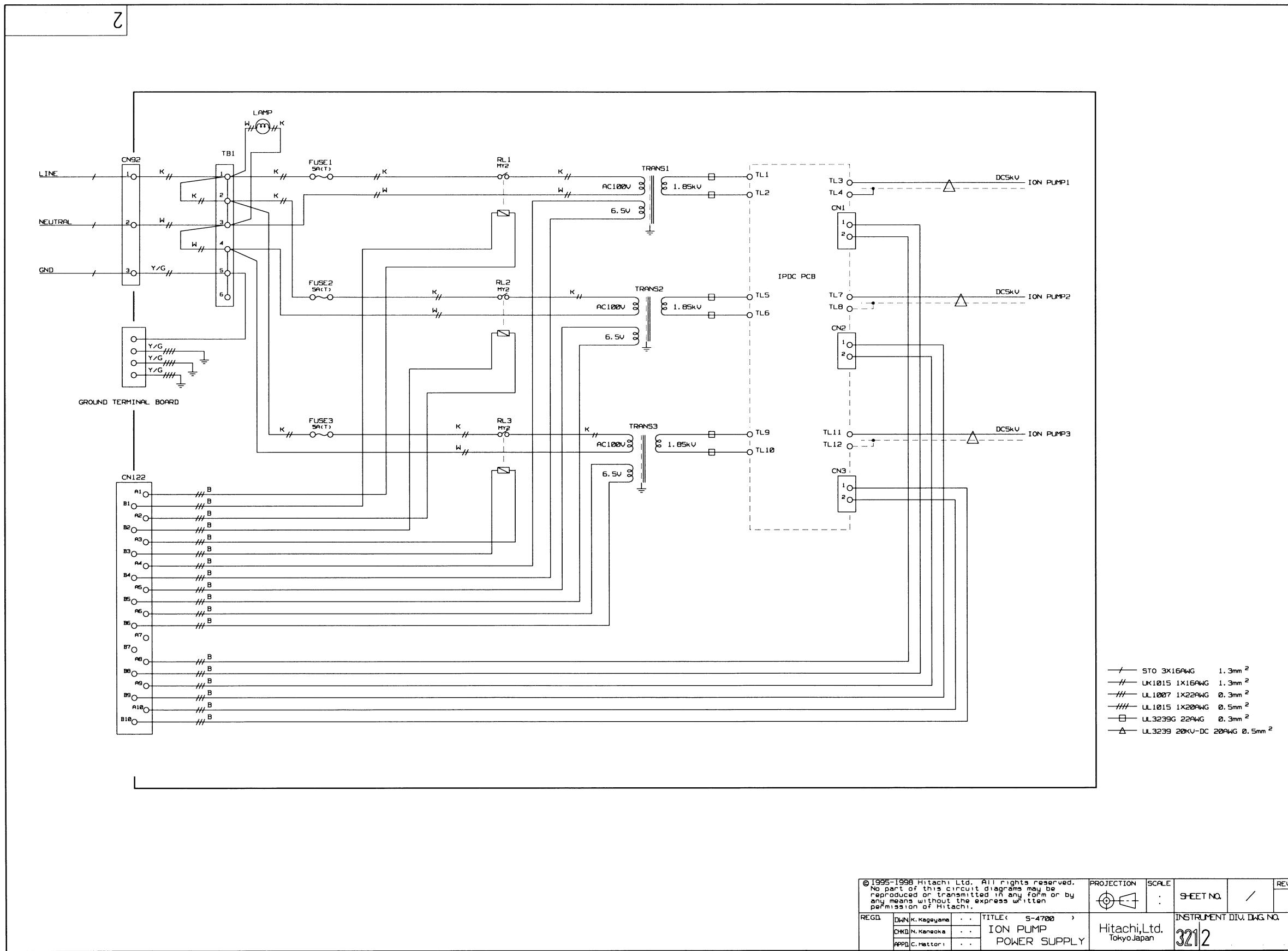
Hitachi,Ltd.
Tokyo Japan

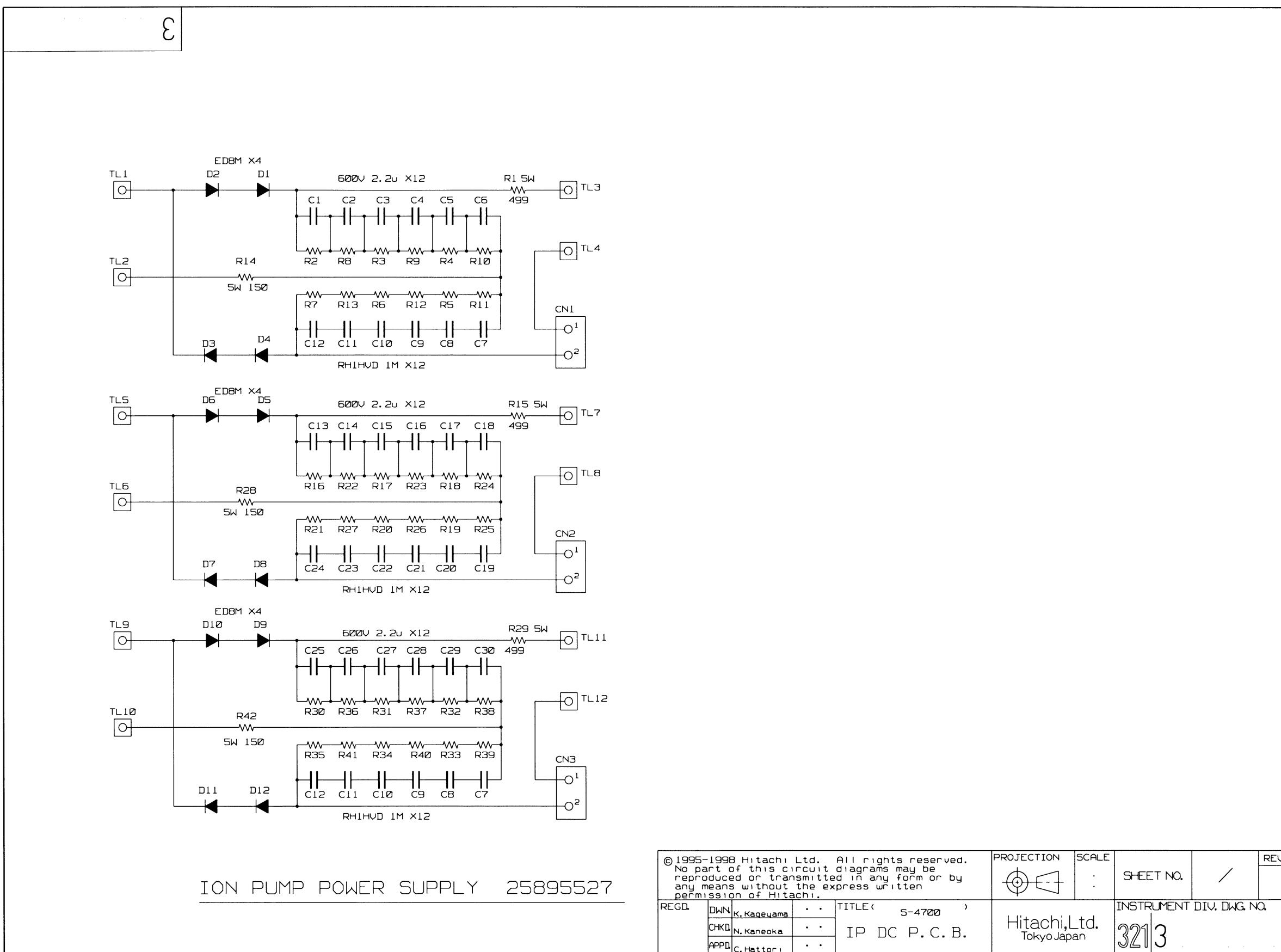
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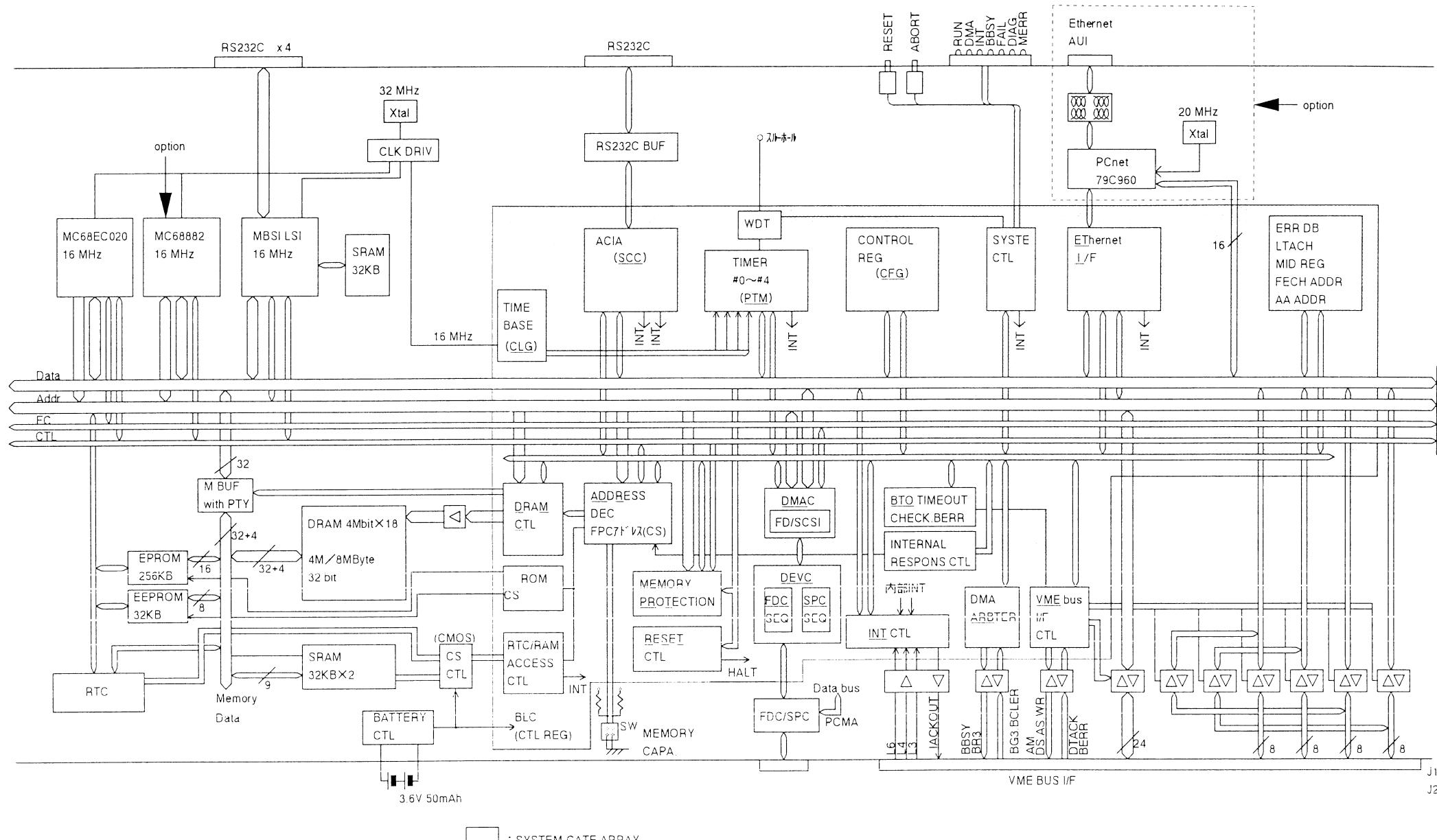
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VRT-250L SERIES ECPU247 BLOCK DIAGRAM

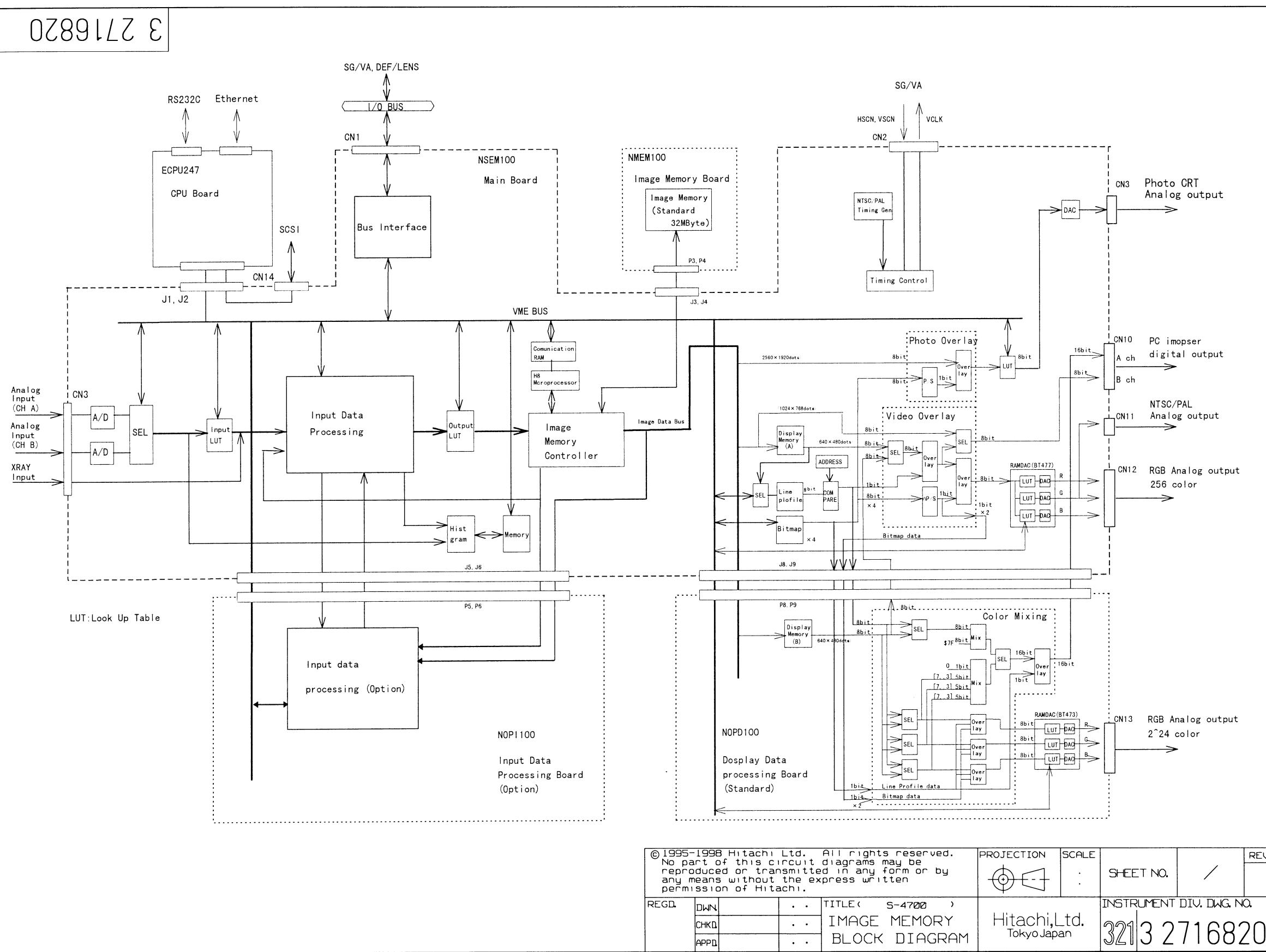


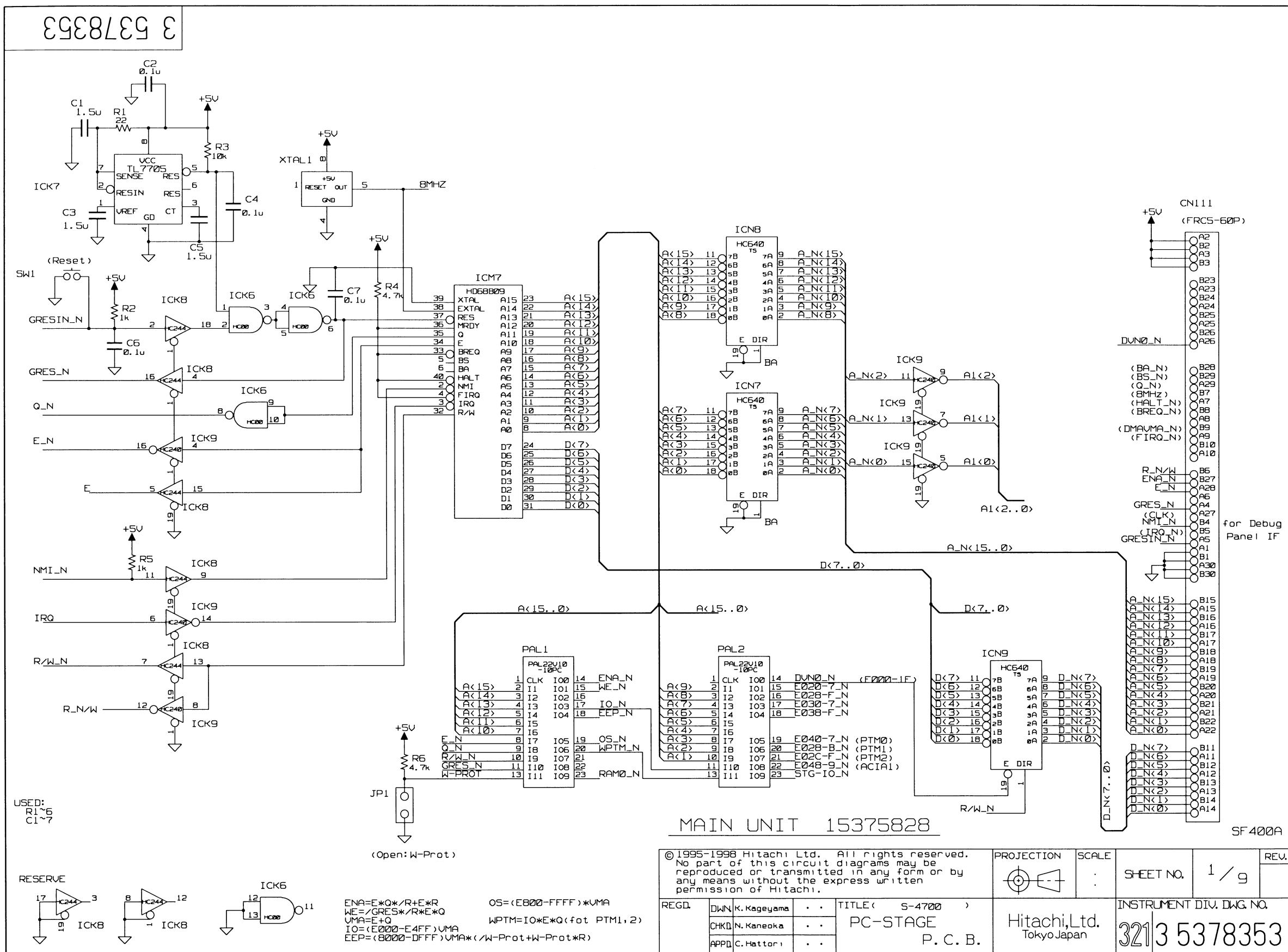
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REGD	DWN	..	TITLE	SCALE	PROJECTION	REV.
CHKD		..	S-4700			
APPD		..	CPU BOARD			
			Hitachi,Ltd. Tokyo,Japan			

INSTRUMENT DIV. Dwg No.
3212

3 2716820



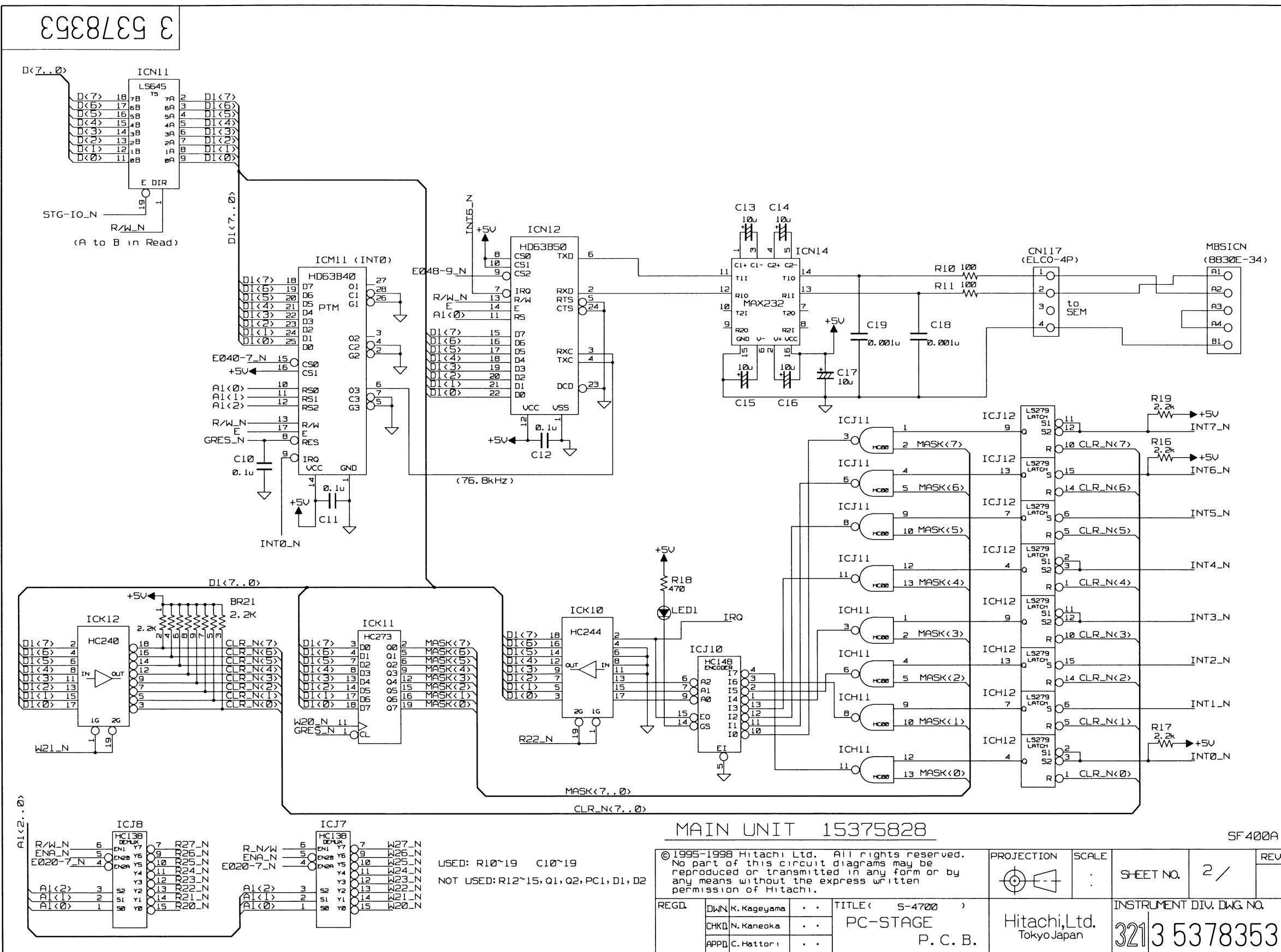


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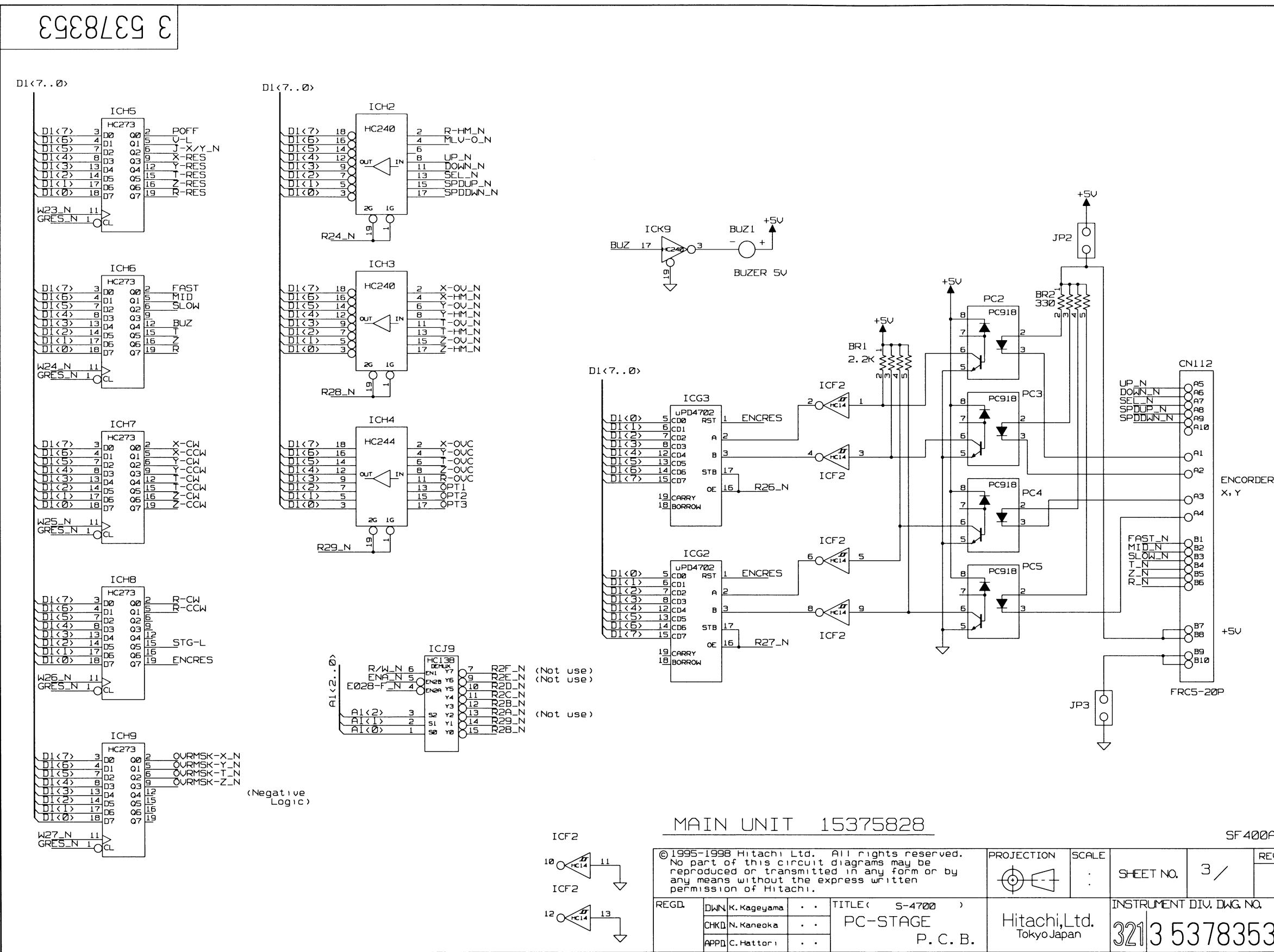
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CHKD	N. Kaneoka	. . .		PC-STAGE				
APPD	C. Hattori	. . .		P. C. B.				

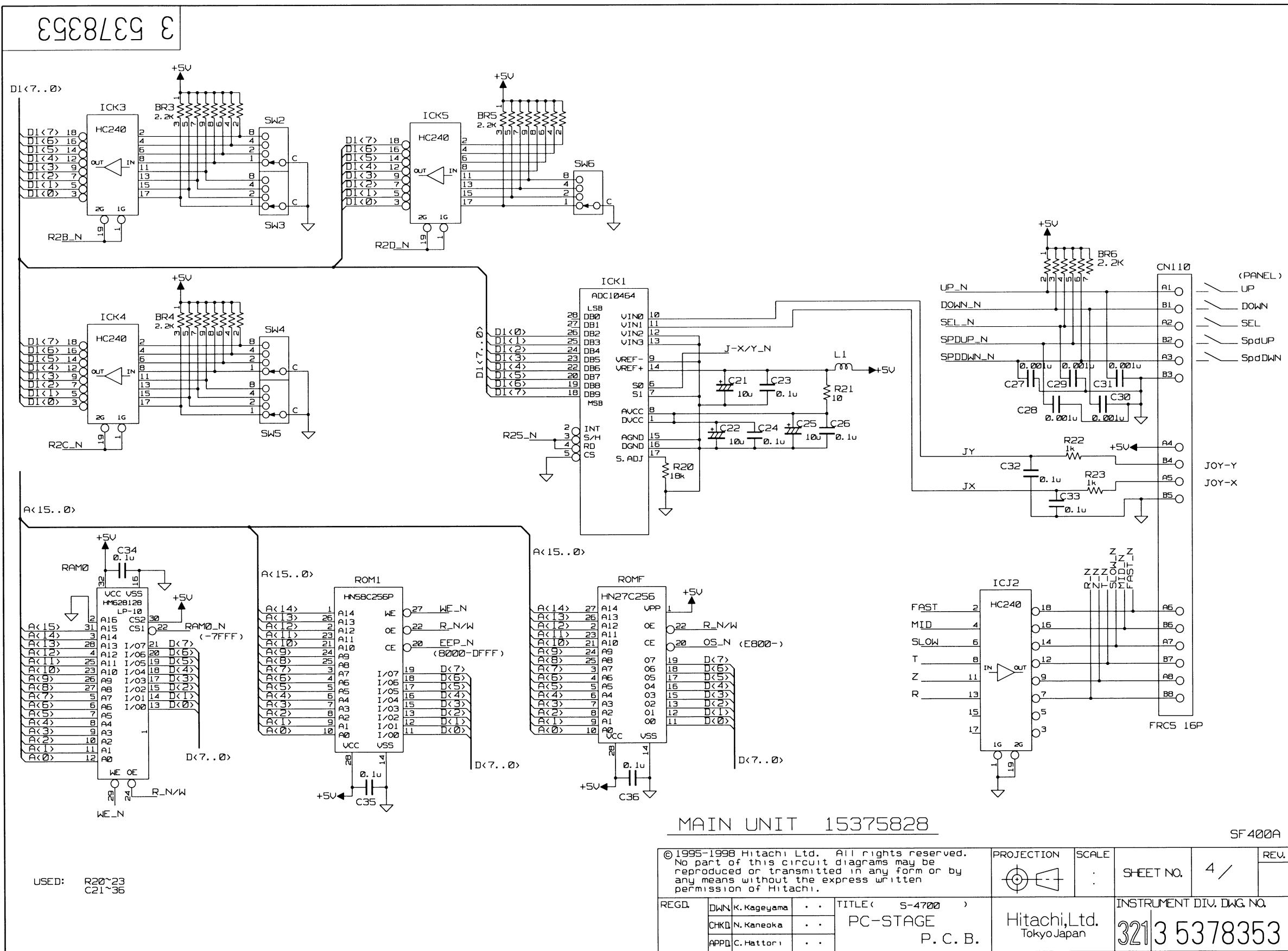
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Hitachi, Ltd.
Tokyo, Japan
32135378353

3 5378353

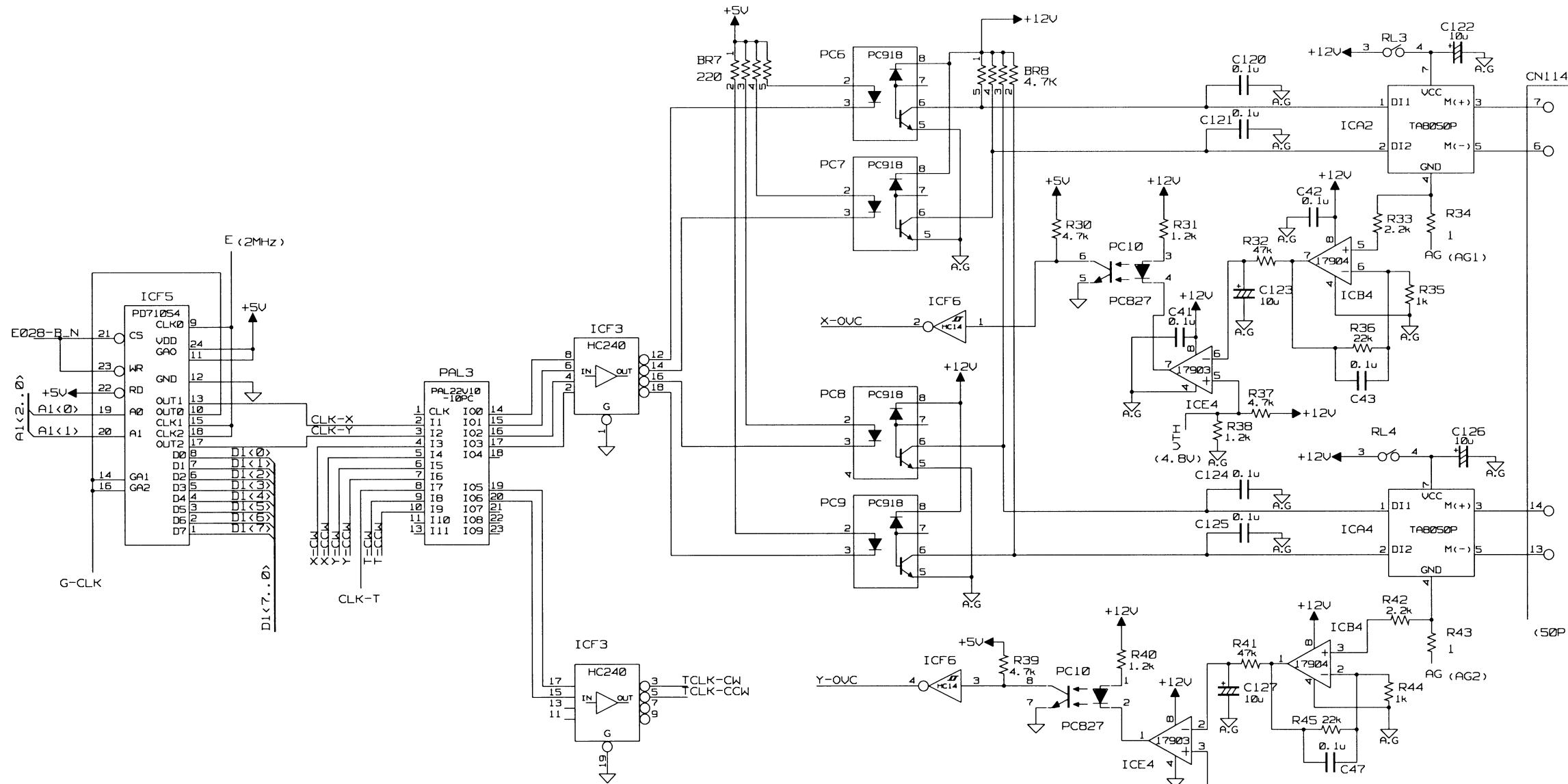


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MAIN UNIT 15375828

SF 400A

USED: R30~45
C40~47
C120~127

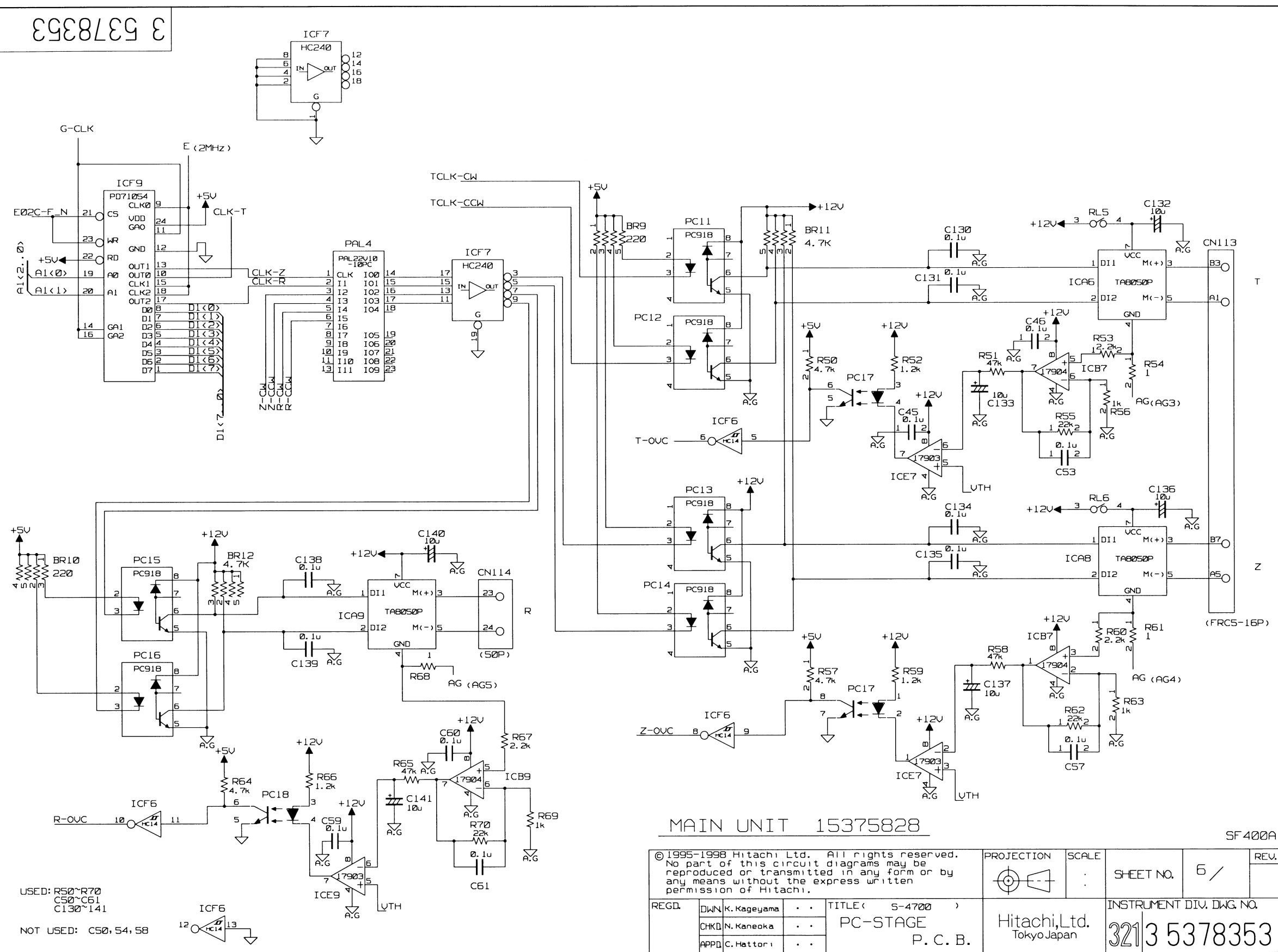
NOT USED: C40, 44

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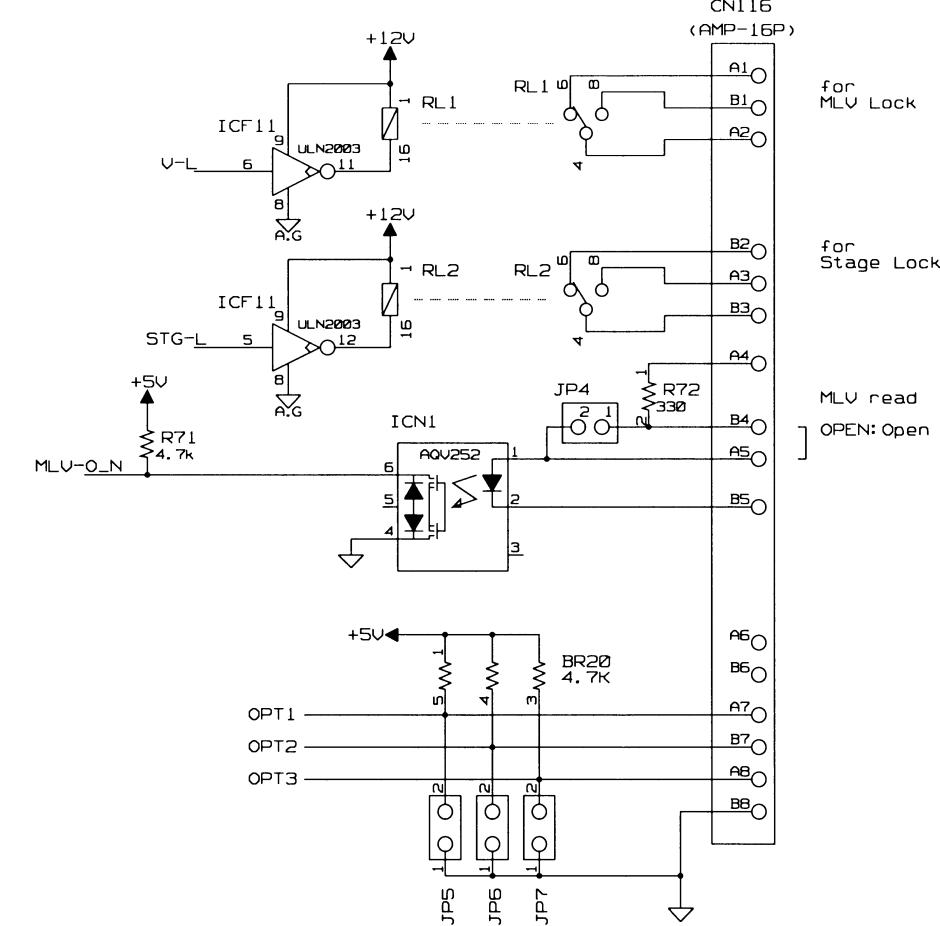
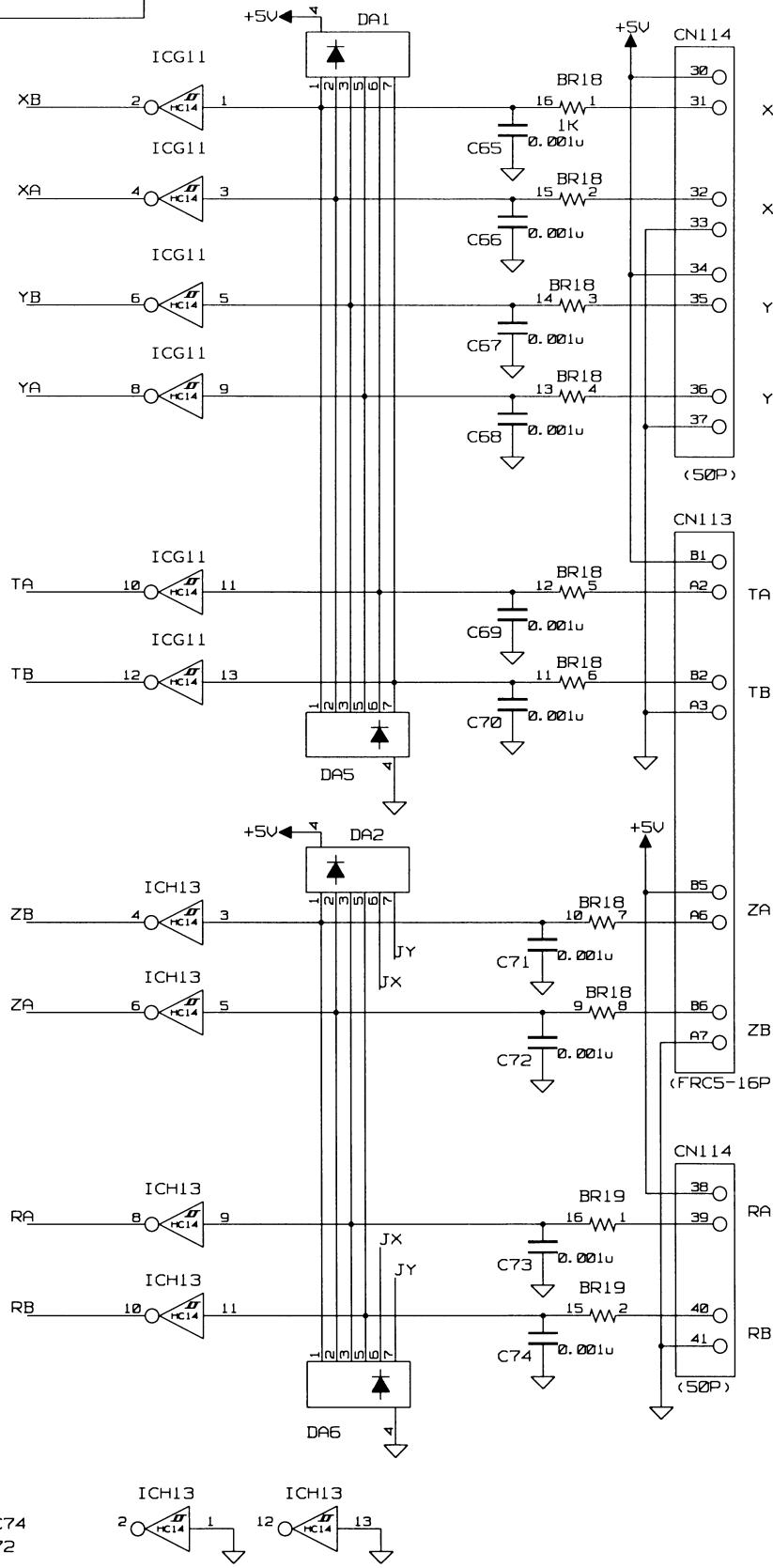
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CHKD	N. Kaneoka	PC-STAGE	5 /	
APPD	C. Hattori	P. C. B.		
				Hitachi, Ltd. Tokyo, Japan	INSTRUMENT DIV. DWG. NO.			

3213 5378353

3 5378353



3 5378353



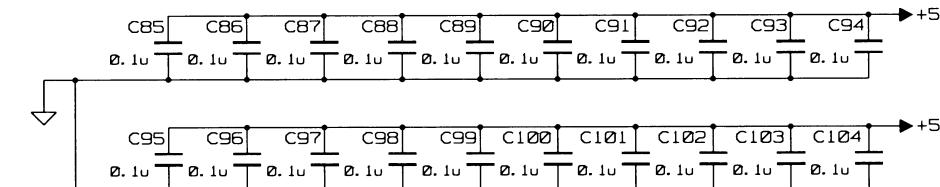
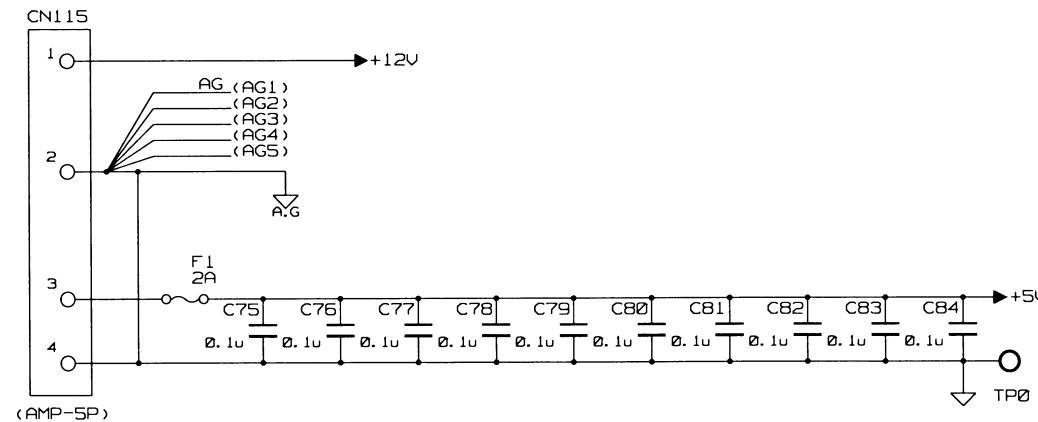
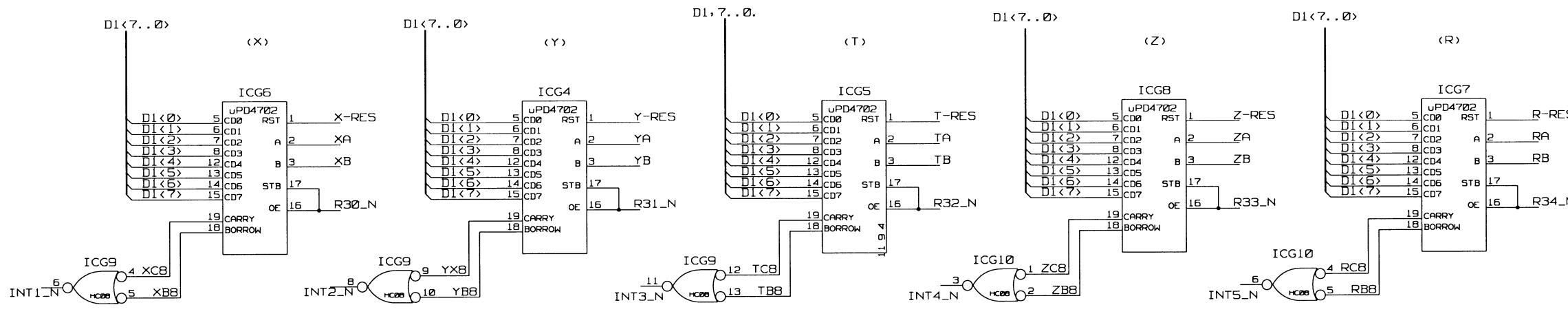
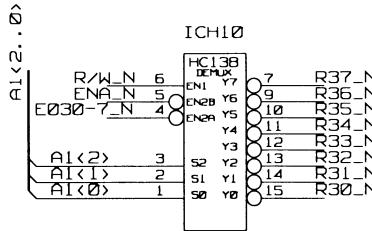
MAIN UNIT 15375828

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REGD.	DWN	K. Kageyama	..	TITLE	S-4700	PROJECTION	SCALE	SHEET NO.	7 /	REV.
	CHKD	N. Kaneoka	..	PC-STAGE	P. C. B.					
	APPD	C. Hattori	..							

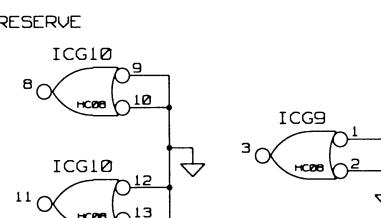
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3213 5378353

3 537835



USED: R75
C75~C104

Not used: IC56, 57, 59, 60, 62, 64, 65, 67, 68, 71



MAIN UNIT 15375828

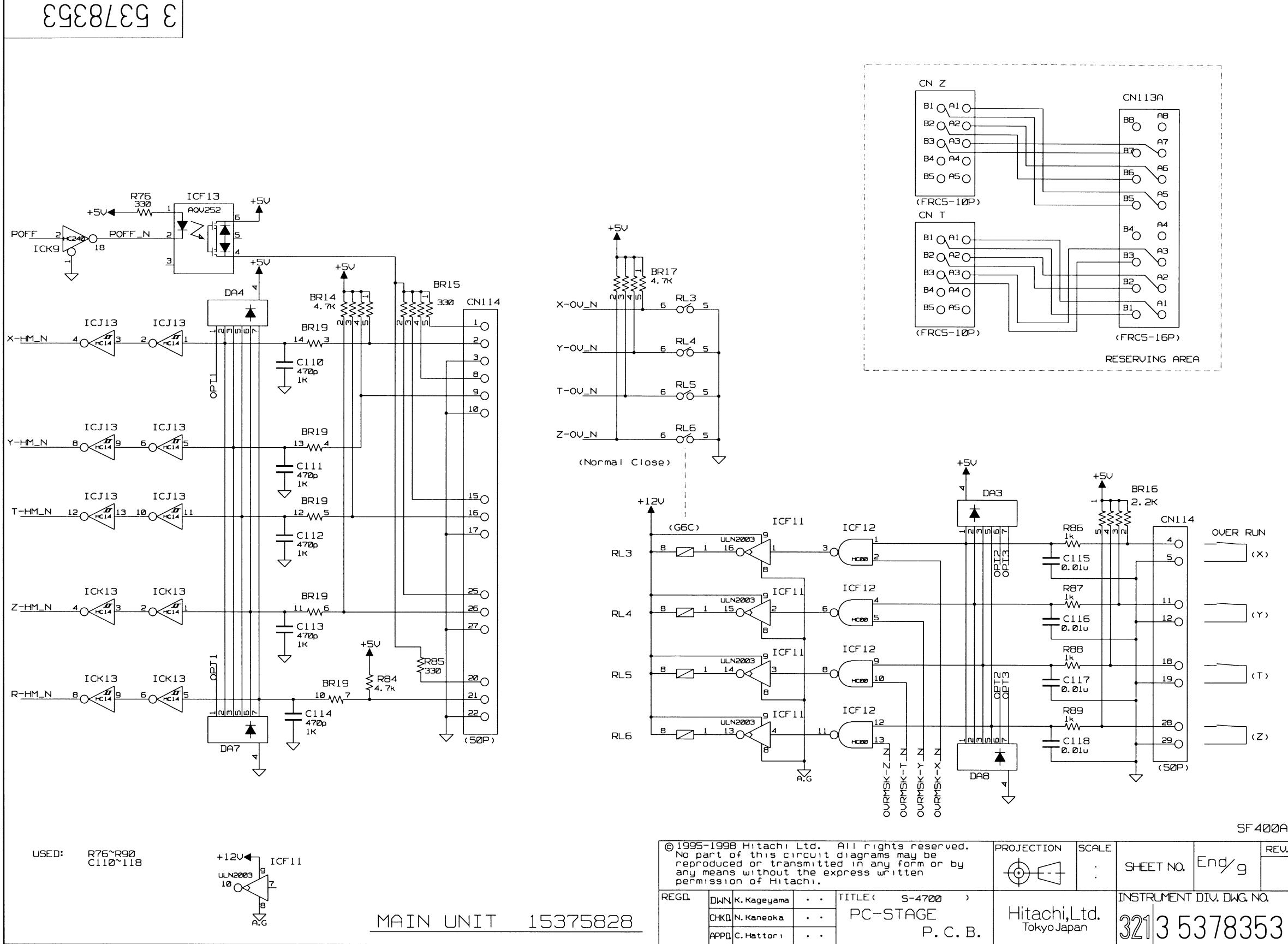
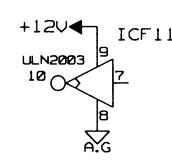
SF400A

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CHKD	N. Kaneoka	PC-STAGE	P. C. B.	Hitachi,Ltd.
APPD	C. Hattori			TokyoJapan			

INSTRUMENT DIV. DWG. NO.
3213 5378353

3 5378353

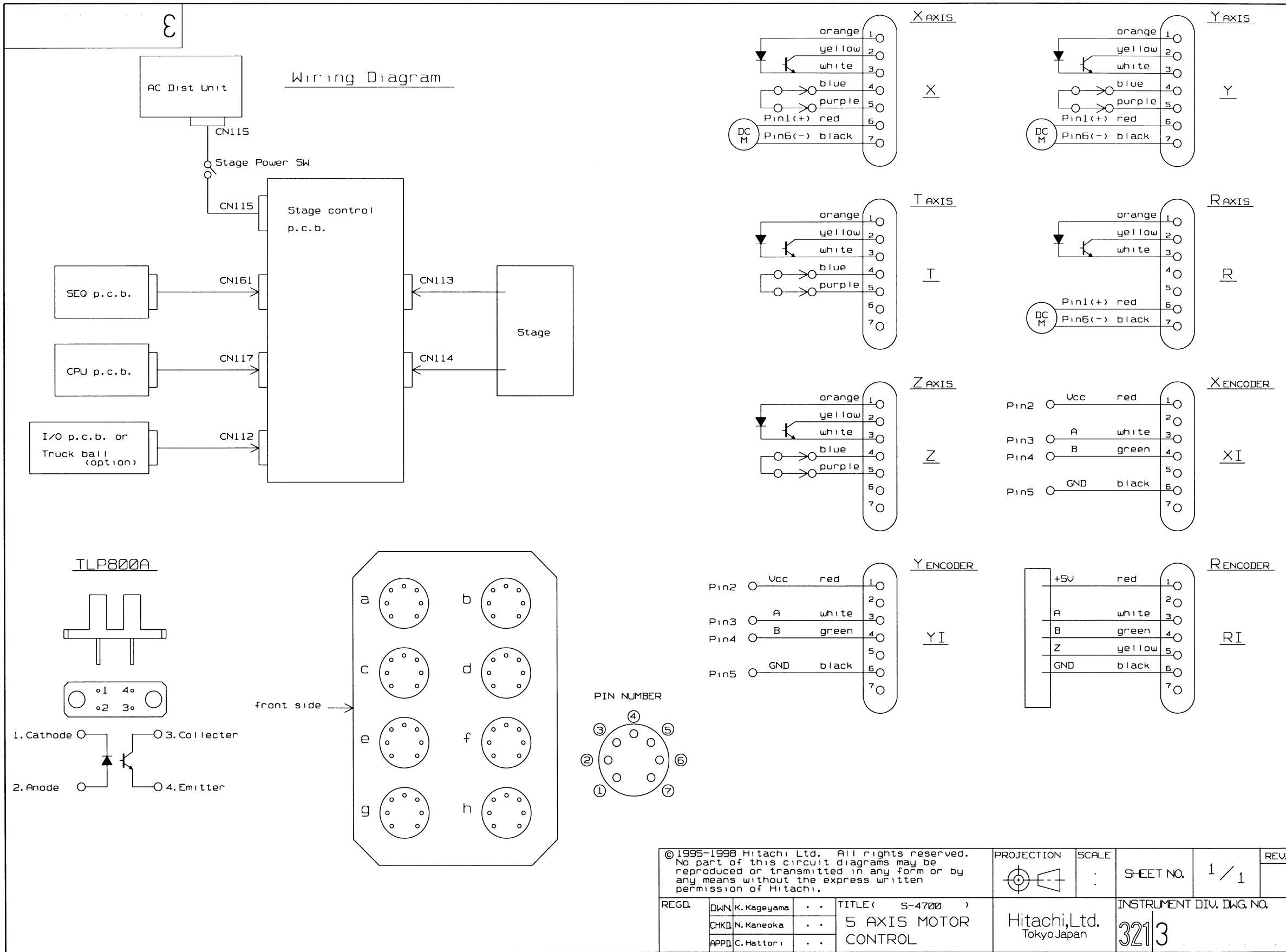
USED: R76~R90
C110~118

MAIN UNIT 15375828

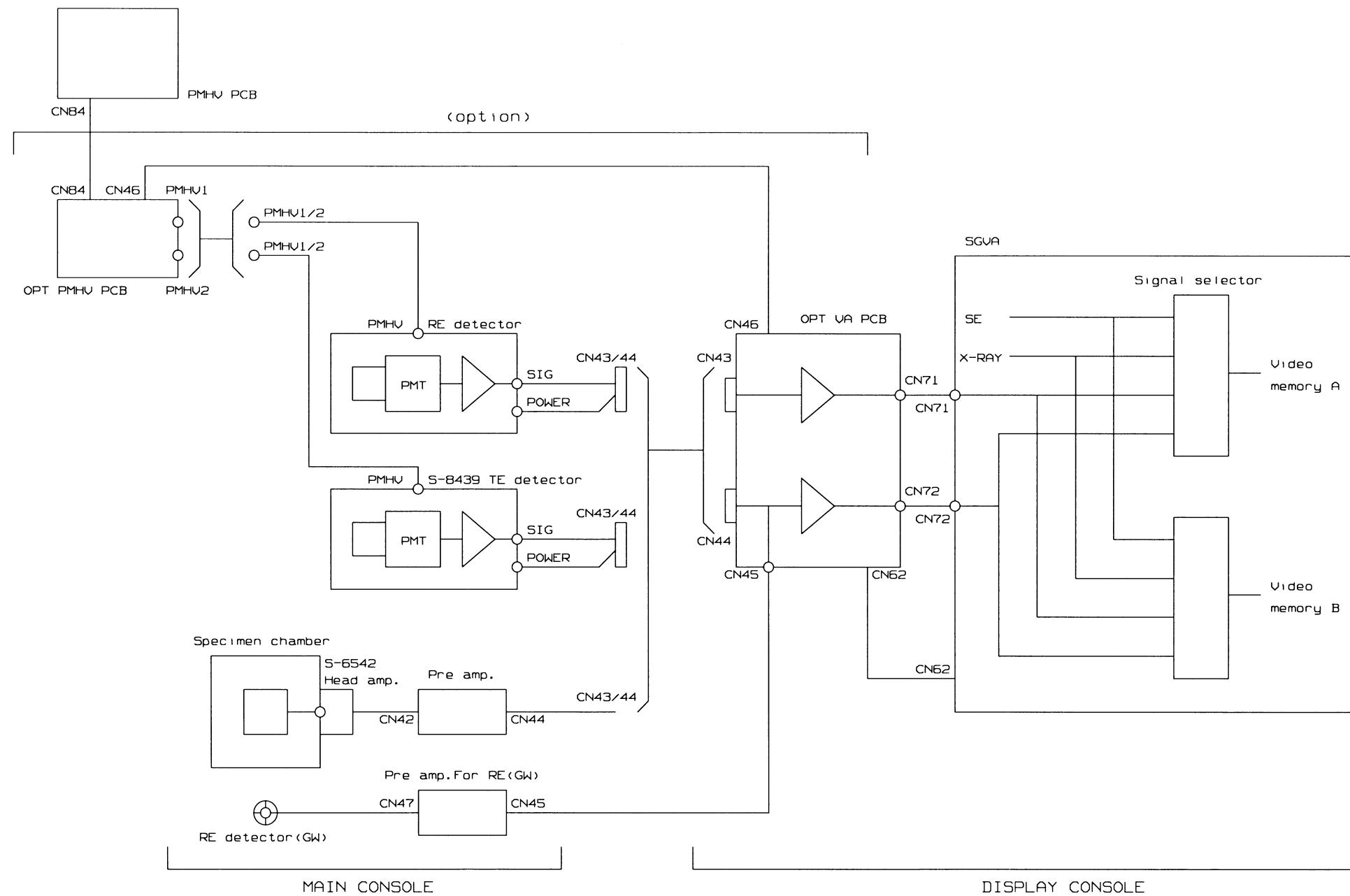
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CHKD	N. Kaneoka		..	PC-STAGE						
APPD	C. Hattori		..	P. C. B.						

INSTRUMENT DIV. DWG. NO.
32135378353



3 5378393

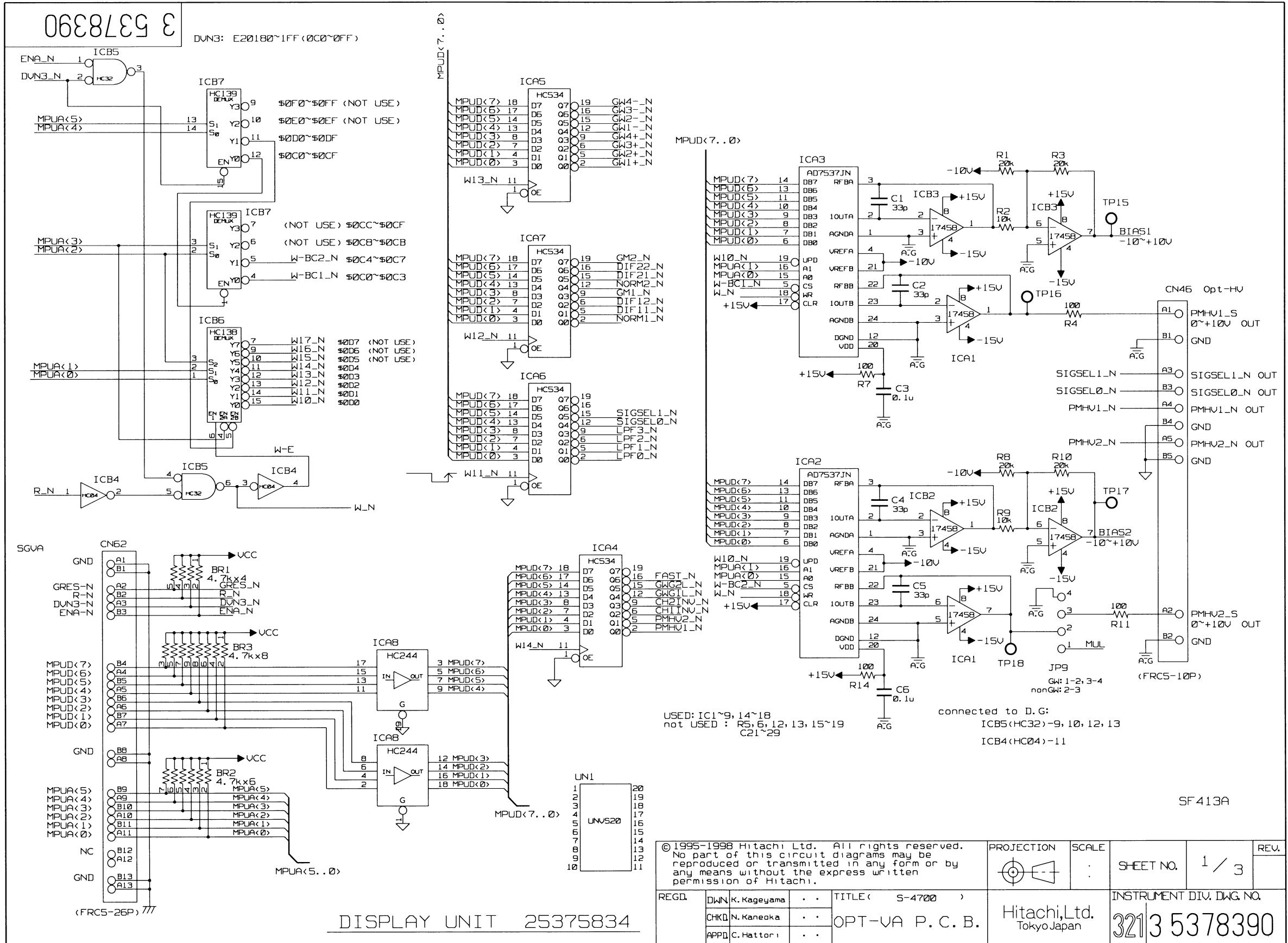


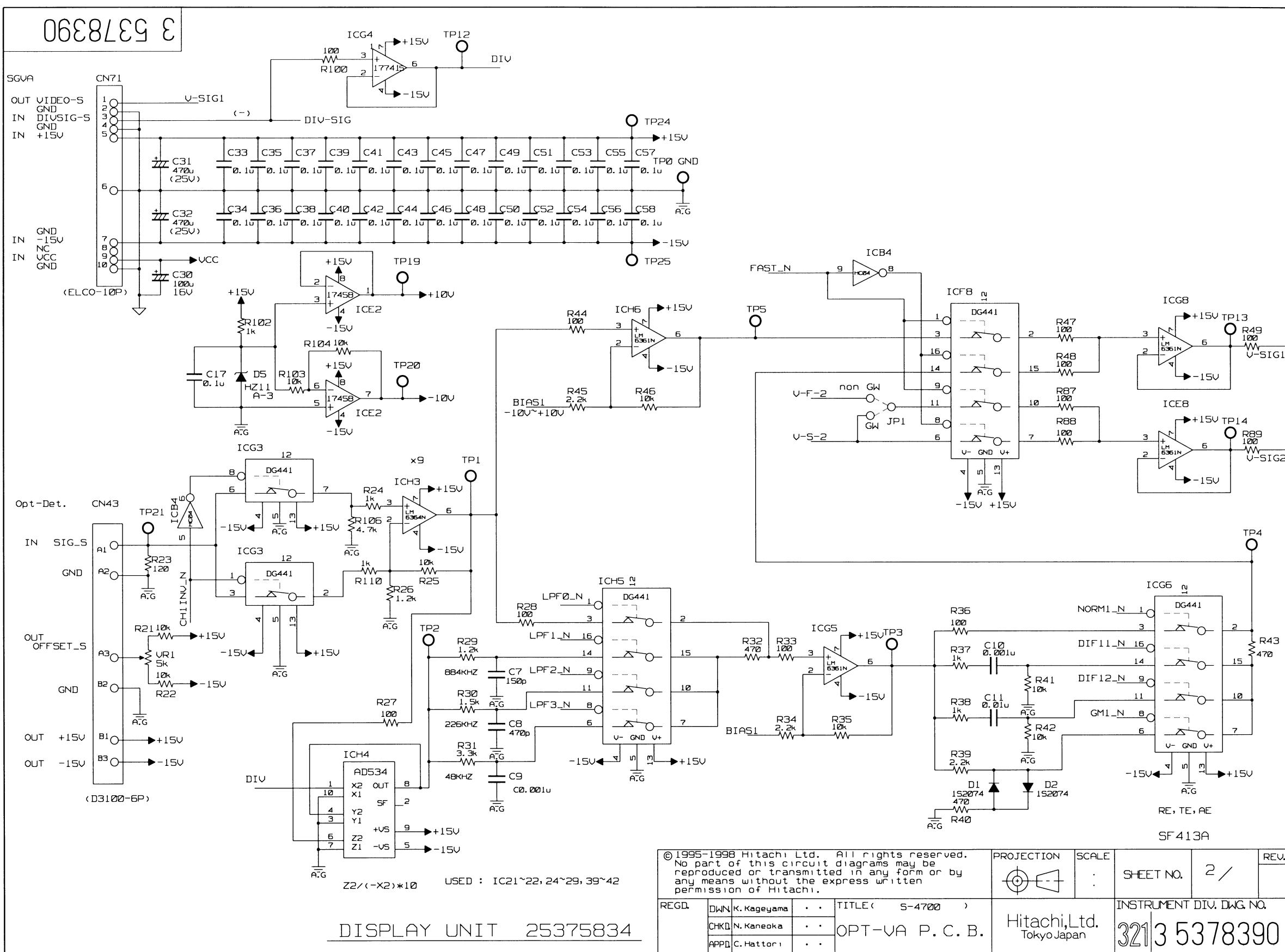
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REGD	DWN	K. Kageyama	..	TITLE(S-4700)	PROJECTION	SCALE	SHEET NO.	1 / 1	REV.
	CHKD	N. Kaneoka	..	WIRING DIAGRAM					
	APPD	C. Hattori	..	for OPTION DETECTOR					

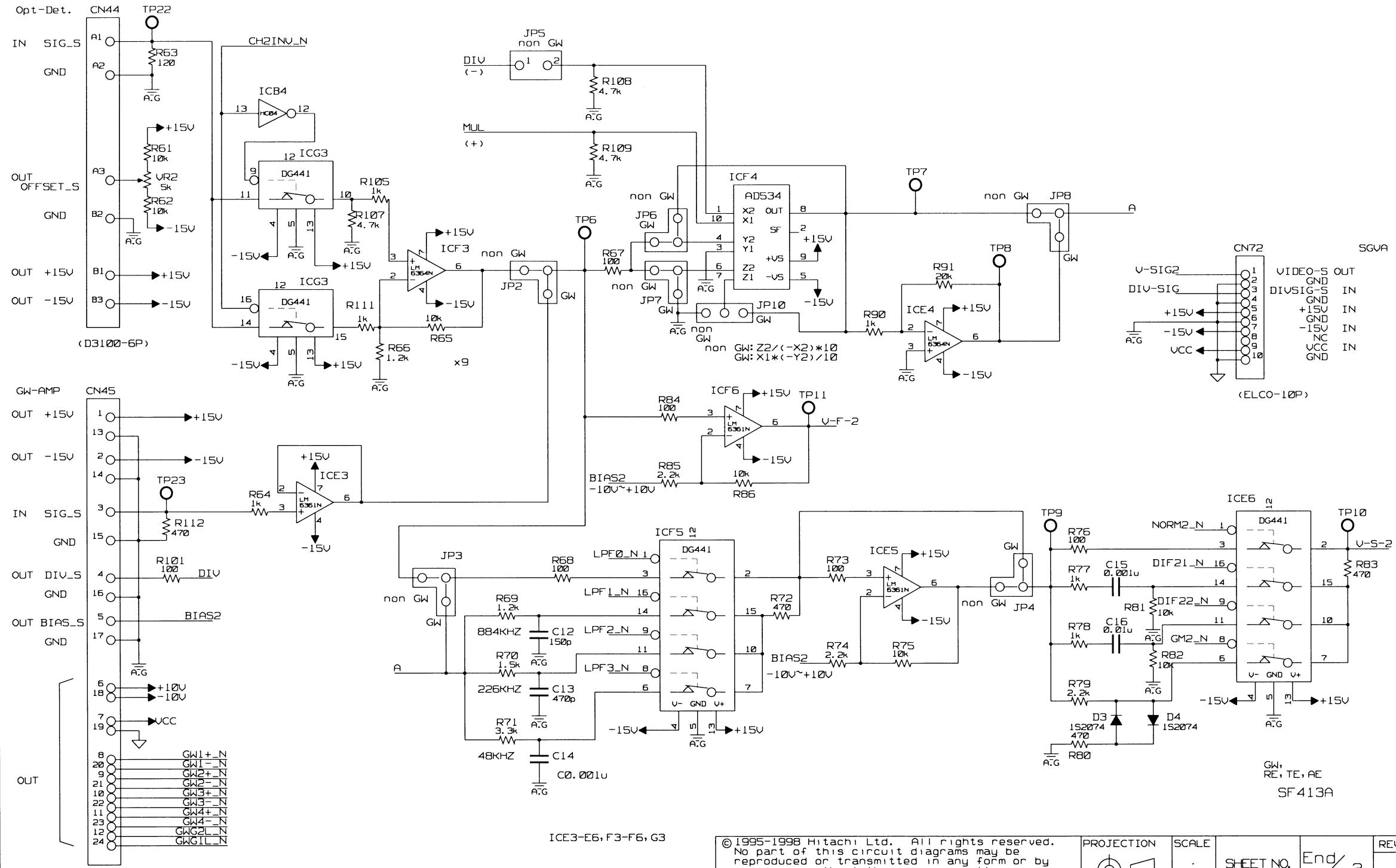
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3213 5378393





3 5378390

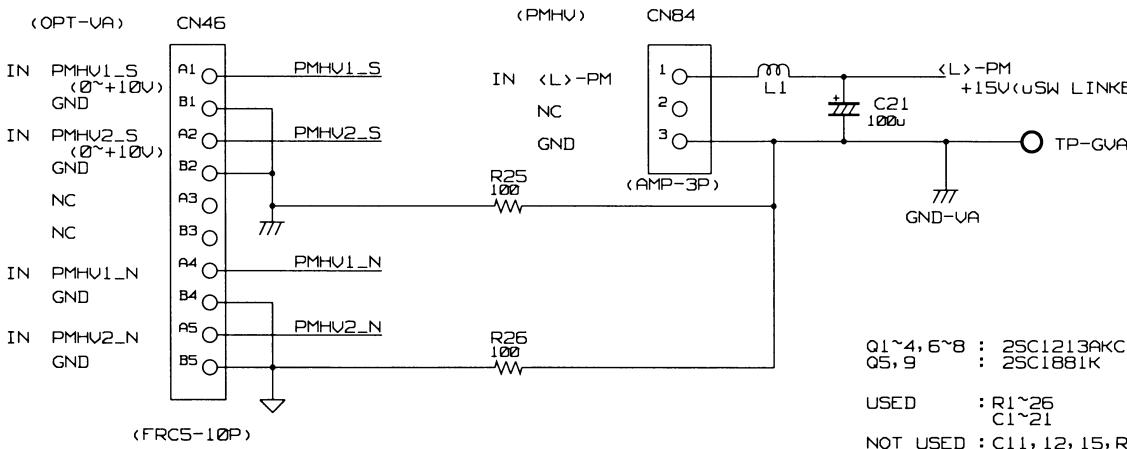
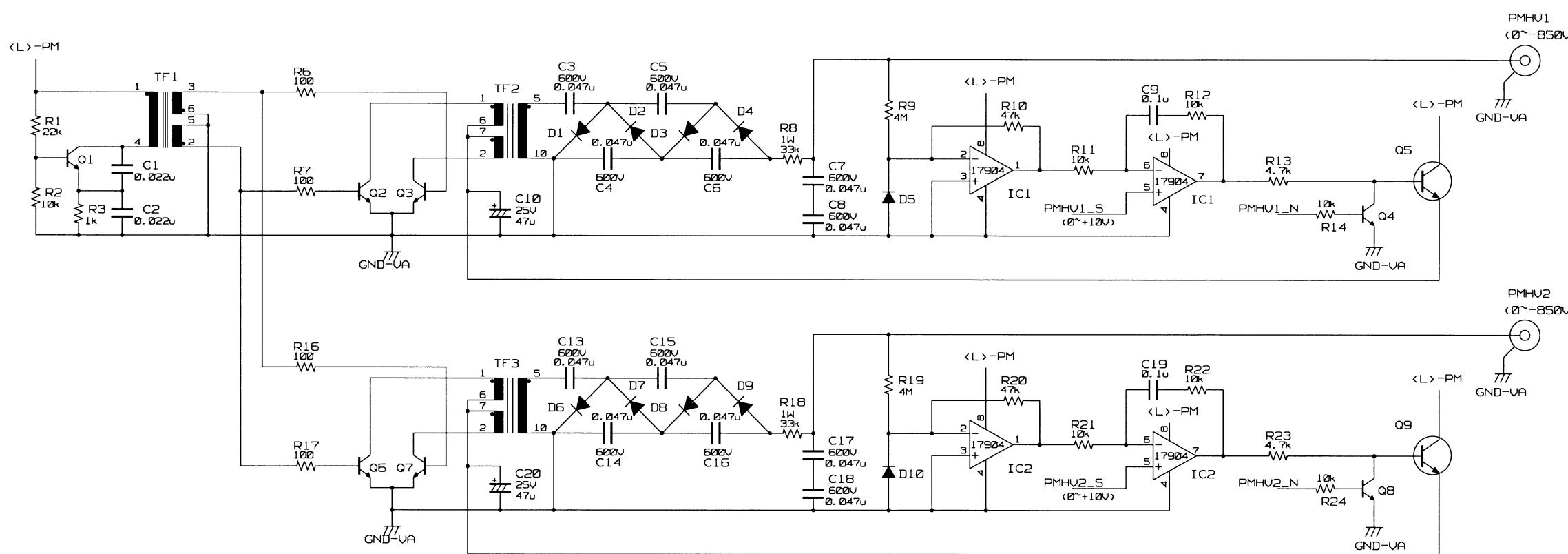


DISPLAY UNIT 25375834

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REGD. DWN. K. Kageyama . . TITLE(S-4700) INSTRUMENT DIV. DWG. NO.
 CHKD. N. Kaneoka . . OPT-VA P. C. B. Hitachi,Ltd.
 APPROV. G. H. Tokyo Japan
 32135378390

3 5378391



Q1~4, 6~8 : 2SC1213AKC-TZ

Q5, 9 : 2SC1881K

USED : R1~26

C1~21

NOT USED : C11, 12, 15, R15

MAIN UNIT 25375835

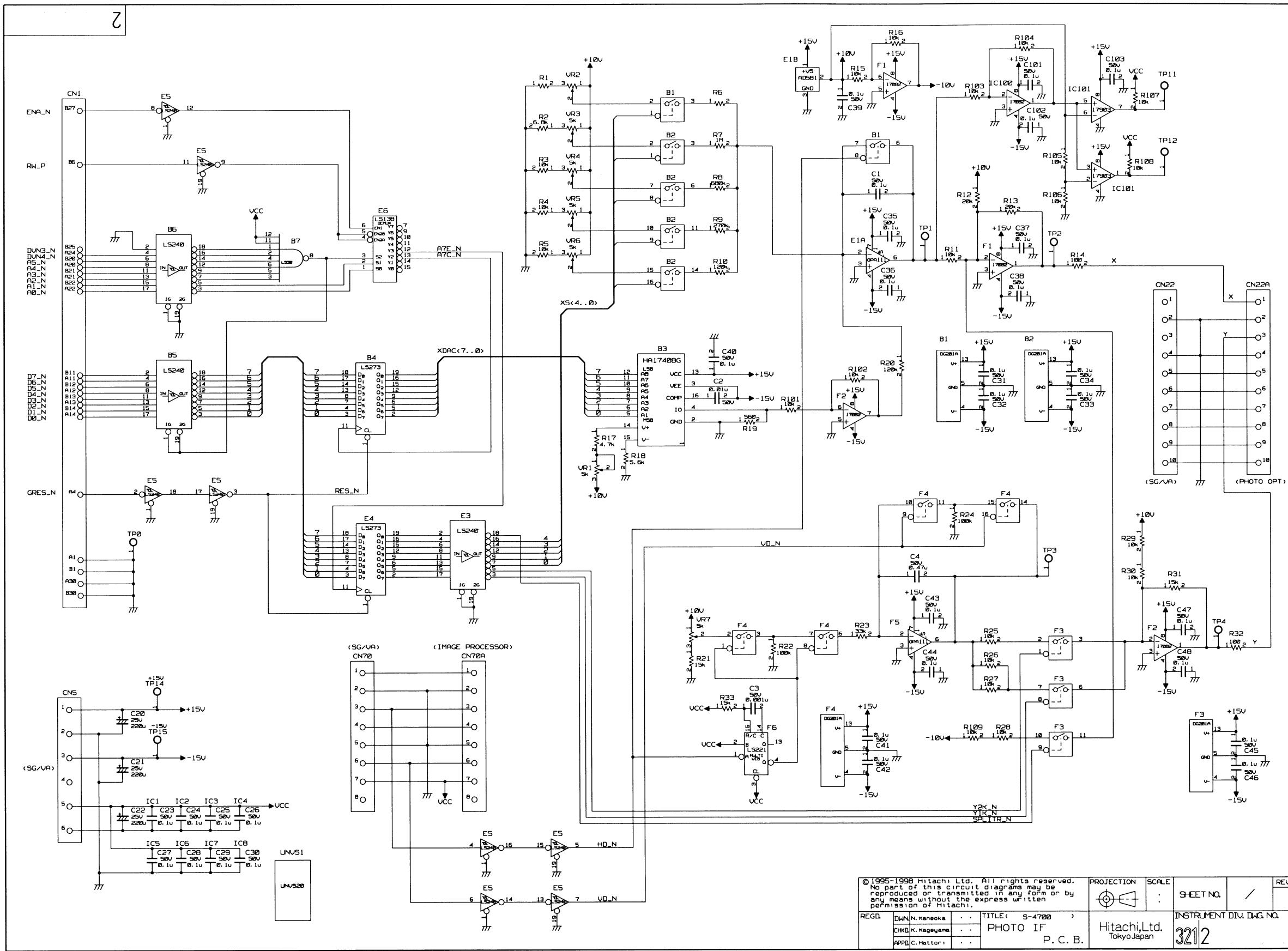
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REGD.	DIN	K. Kageyama	..	TITLE (S-4700)
	CHKD	N. Kaneoka	..	OPT-PMHV
	APPD	C. Hattori	..	P. C. B.

Hitachi,Ltd.
Tokyo Japan

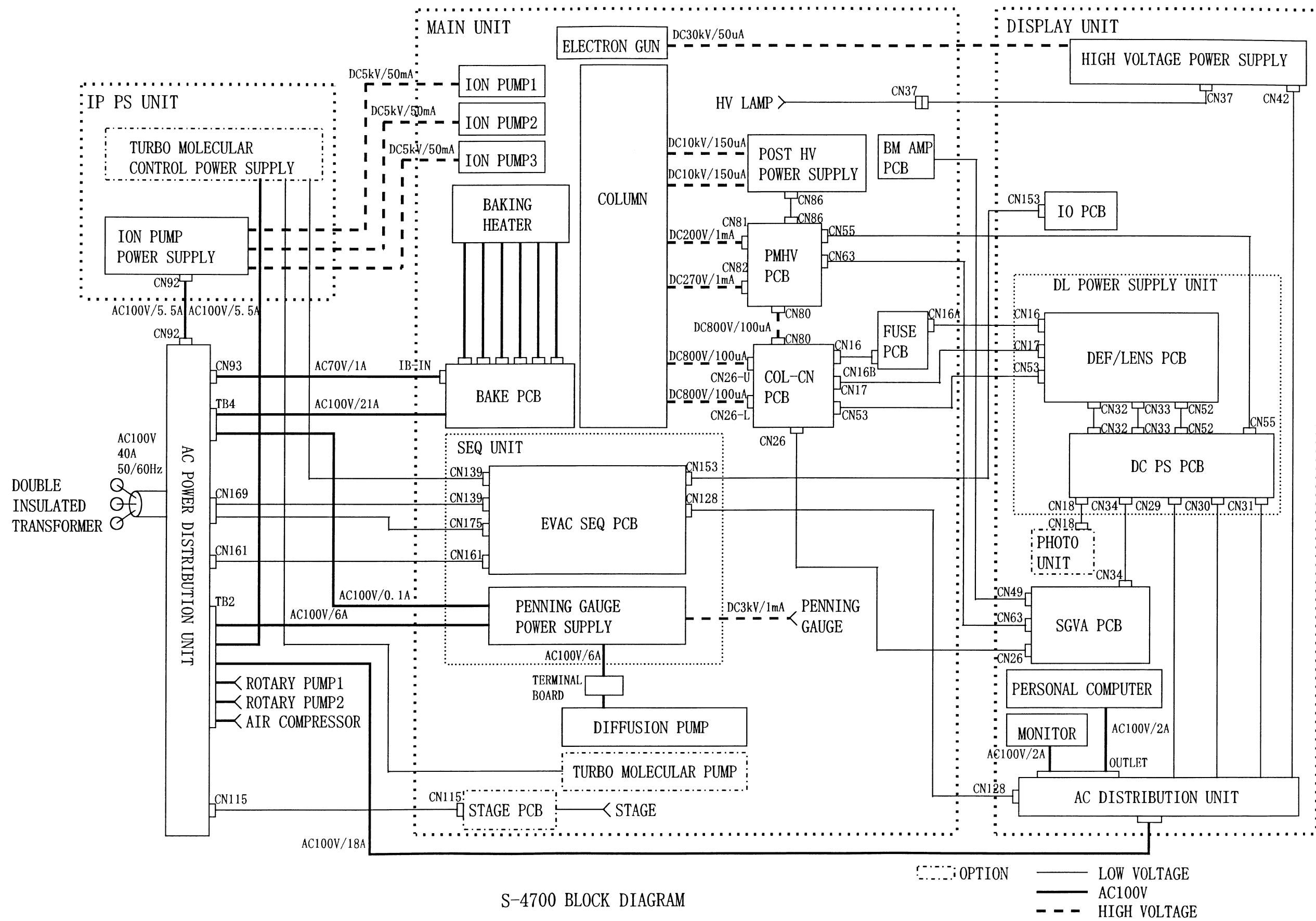
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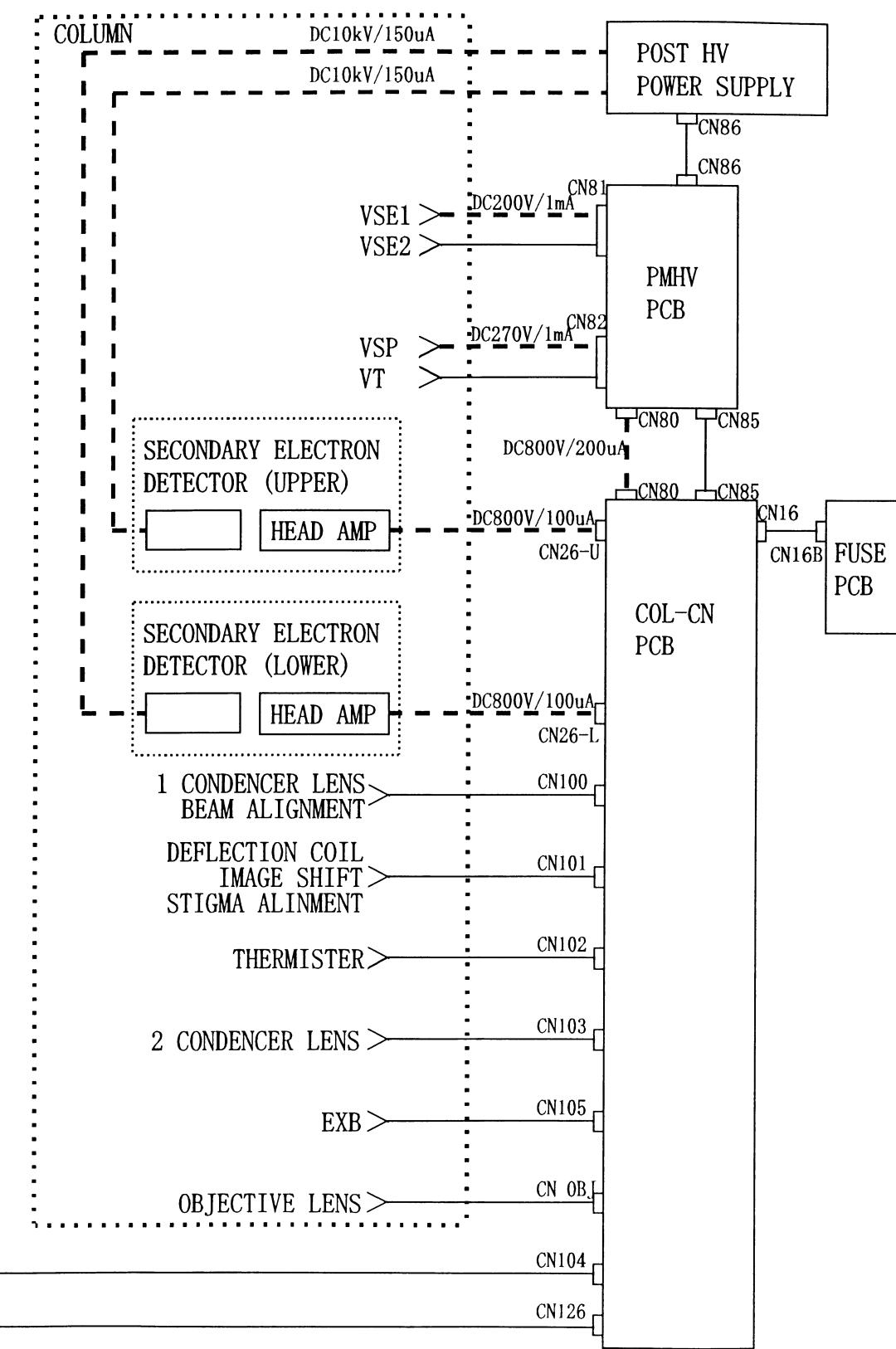
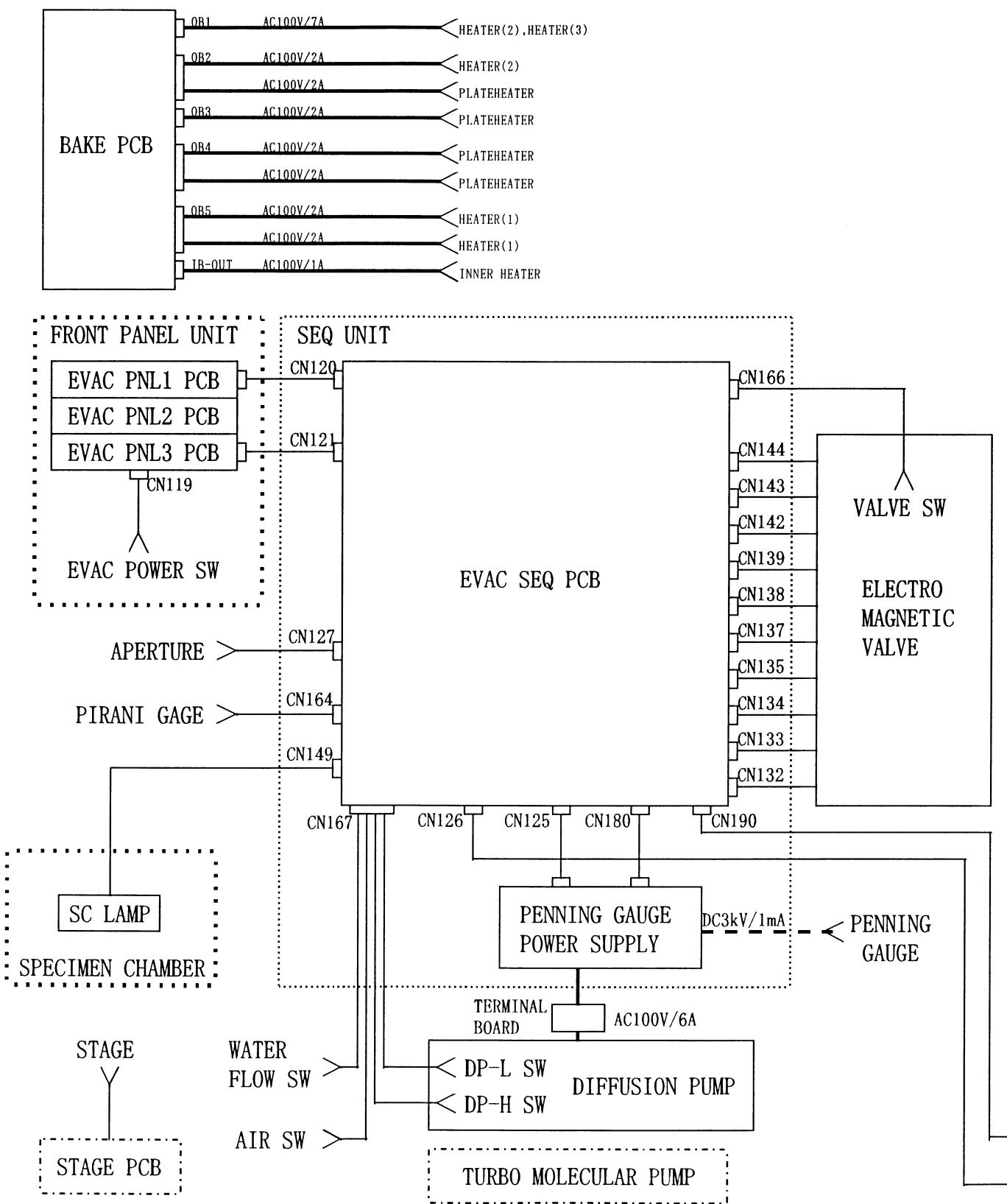


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REGD.	DIN N. Kaneko	..	TITLE: S-4700	PROJECTION	SCALE	SHEET NO.	/	REV.
CHD	K. Kageyama	..	PHOTO IF					
APPD	C. Matori	..	P. C. B.					

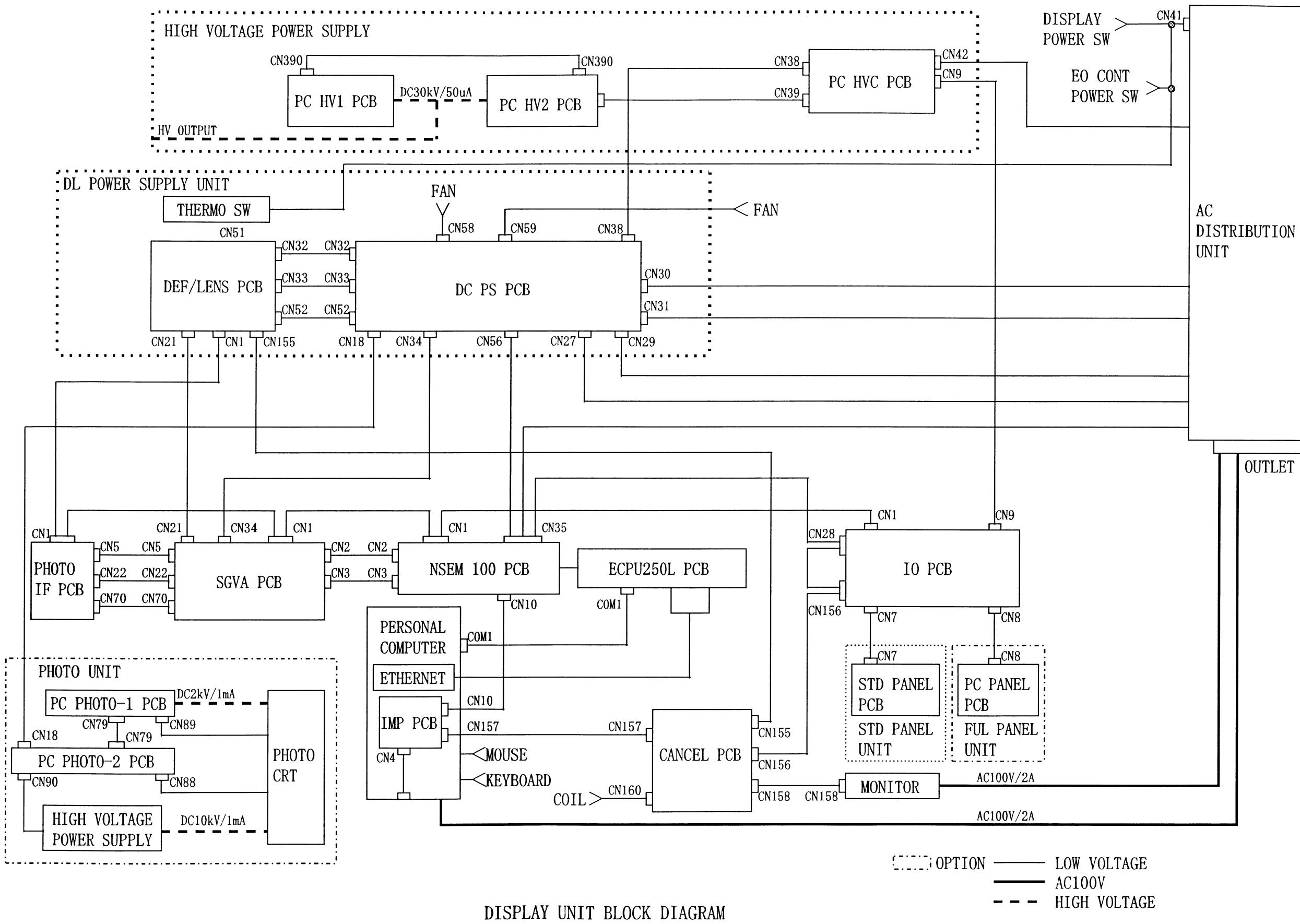
INSTRUMENT DIV. DWG NO. 3212



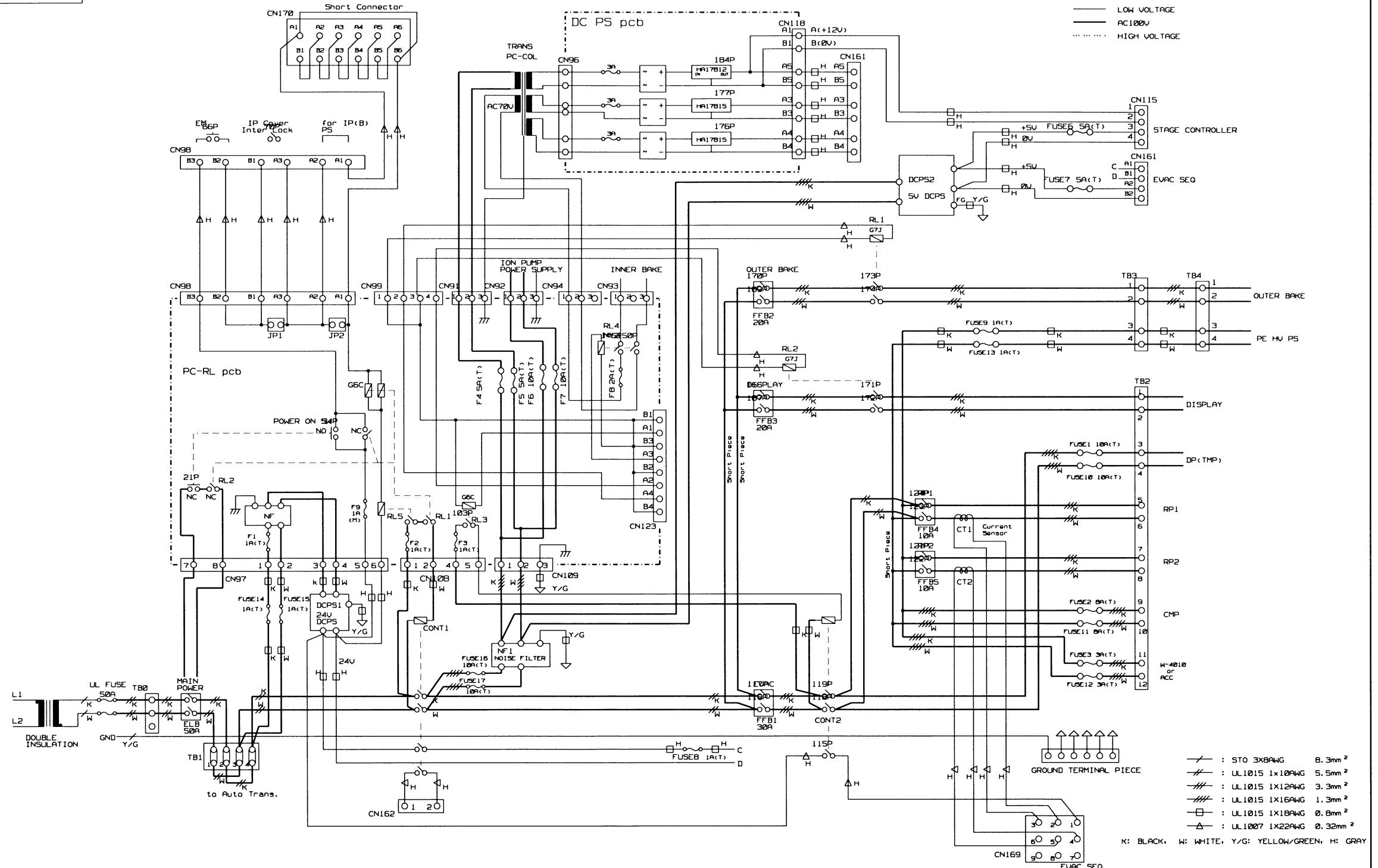


MAIN UNIT BLOCK DIAGRAM

OPTION
— LOW VOLTAGE
— AC100V
- - - HIGH VOLTAGE



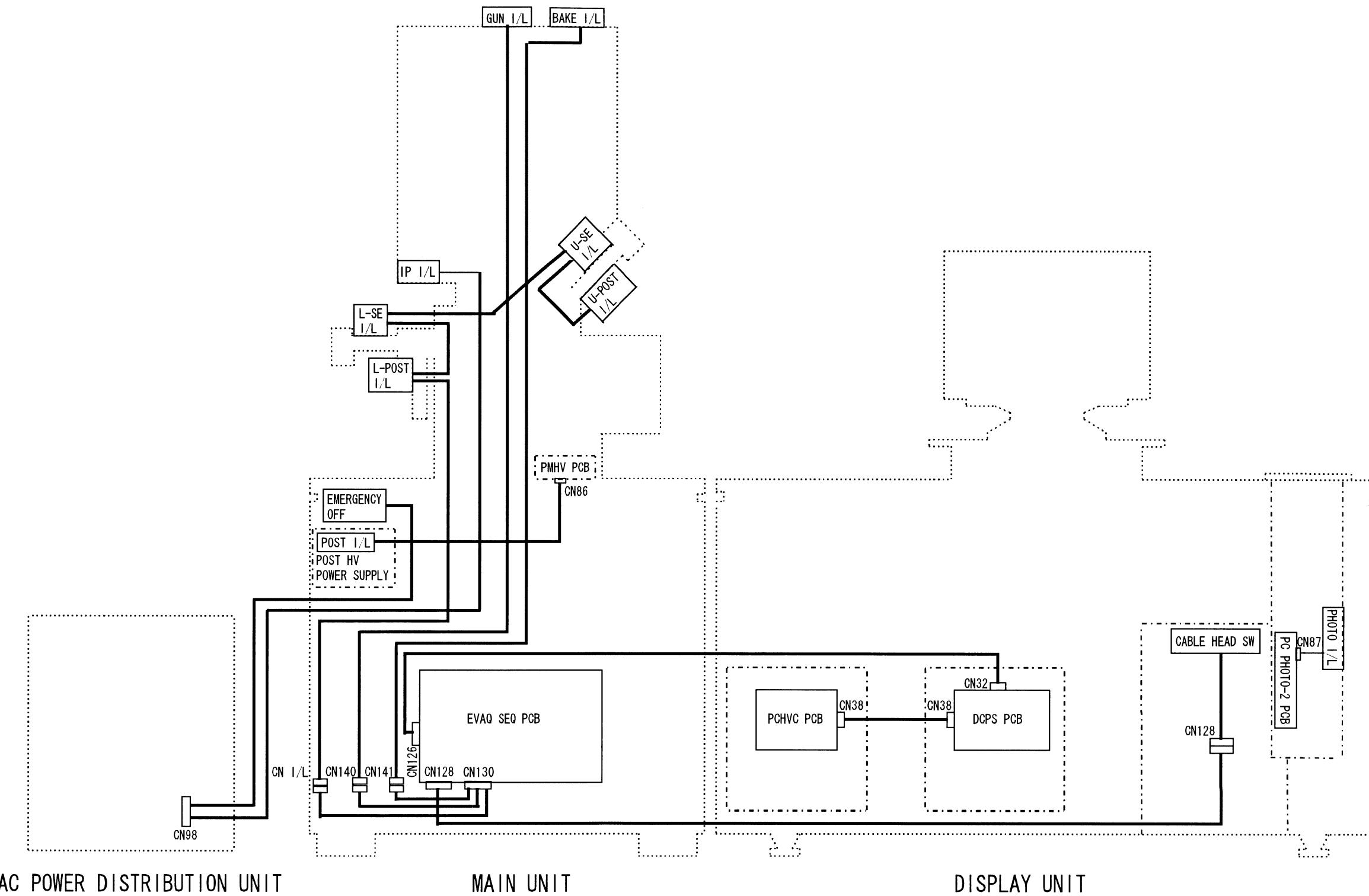
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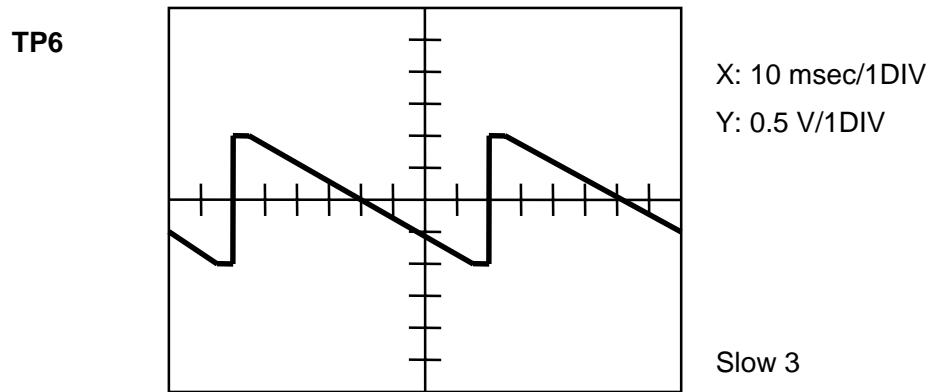
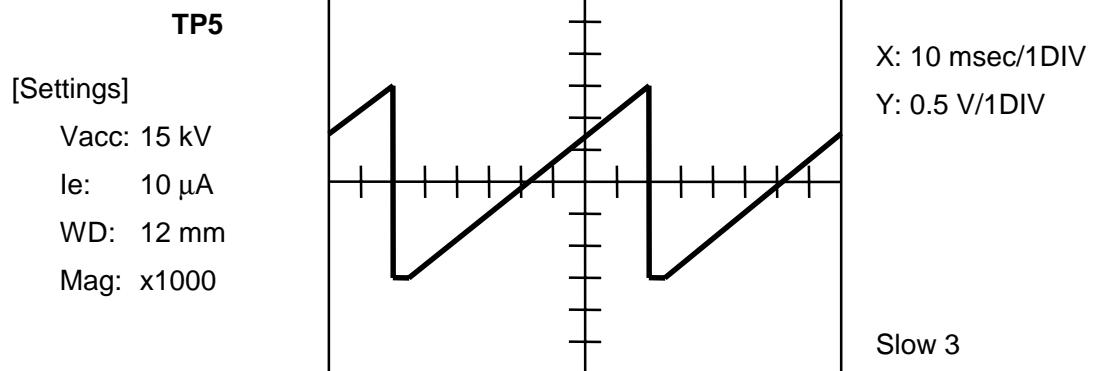
REGD: DIN K. Kageyama . .	TITLE: S-4700	PROJECTION: /
CHND: N. Kaneko . .	AC POWER DISTRIBUTION	SCALE: /
APPD: C. Matorri . .	UNIT WIRING DIAGRAM	SHEET NO.: /

Hitachi,Ltd.
Tokyo,Japan
3212 5378370



S-4700 INTERLOCK DIAGRAM

DEF/LENS PCB

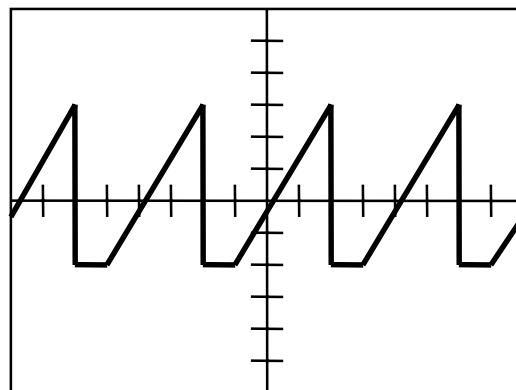


SG/VA PCB

TP14

[Settings]

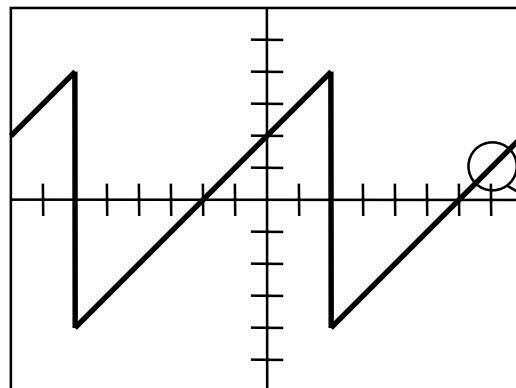
Vacc: 15 kV
Ie: 10 μ A
WD: 12 mm
Mag: x1000



X: 10 msec/1DIV
Y: 5 V/1DIV

High Mag

TP15

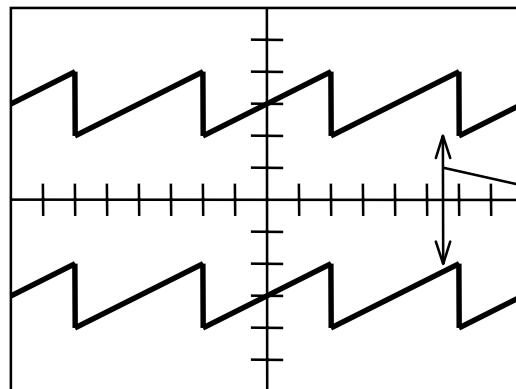


X: 5 sec/1DIV
Y: 0.5 V/1DIV

Enlargement

High Mag

TP14



X: 10 msec/1DIV
Y: 0.5V/1DIV

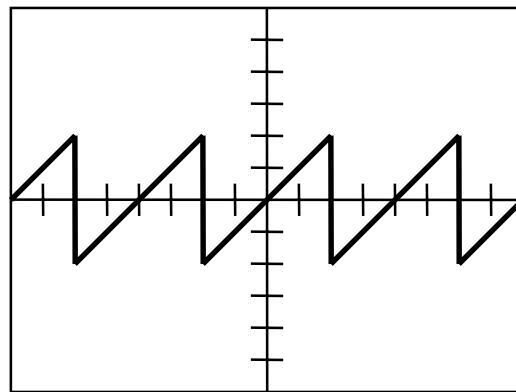
Waveform shifts vertically at 20-second intervals.

Low Mag

TP16

[Settings]

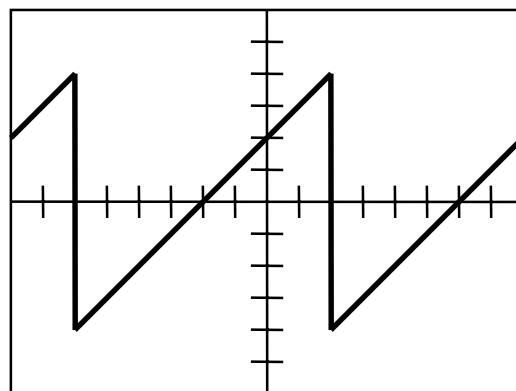
Vacc: 15 kV
Ie: 10 μ A
WD: 12 mm
Mag: x1000



X: 10 msec/1DIV

Y: 5 V/1DIV

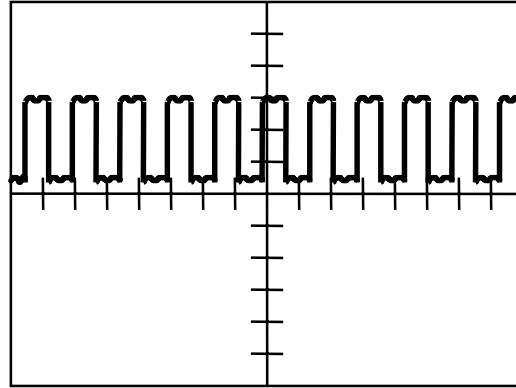
There is no change
whether R.R is 0° or 45°.

TP17

X: 2.5 sec/1DIV

Y: 5 V/1DIV

TP6 ②
(IC11 ⑭)



X: 2.5 sec/1DIV

Y: 5 V/1DIV

13.3 Mhz

Same as TV (slow)

PC HVC PCB

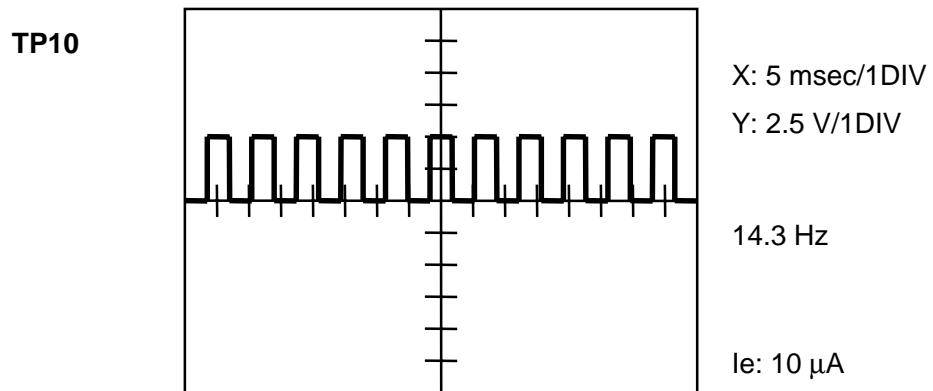
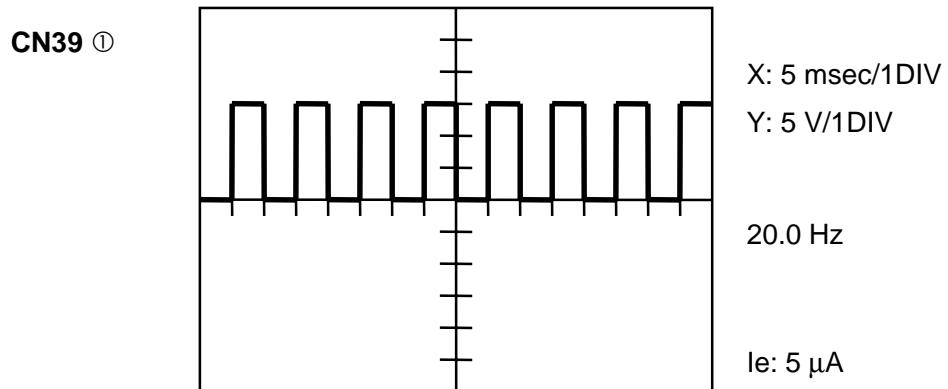
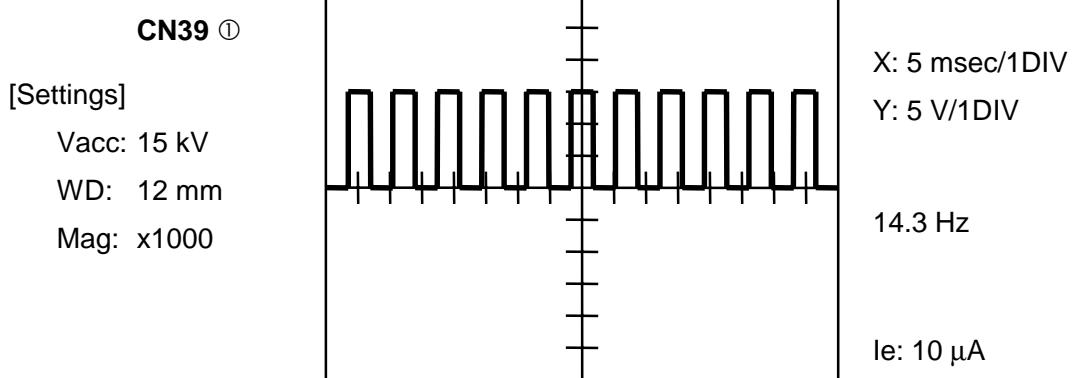


PHOTO I/F PCB

TP2

[Settings]

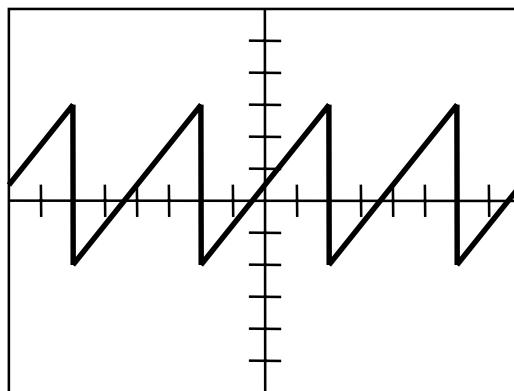
Vacc: 15 kV

Ie: 10 μ A

WD: 12 mm

Mag: x1000

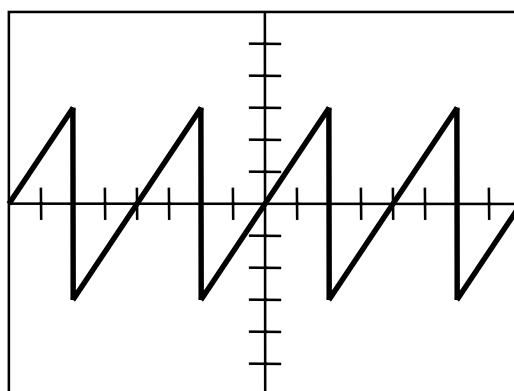
High Mag



X: 5 msec/1DIV

Y: 5 V/1DIV

TP4



X: 10 sec/1DIV

Y: 2.5 V/1DIV