

SERVICE MANUAL

168RC

Recording Console

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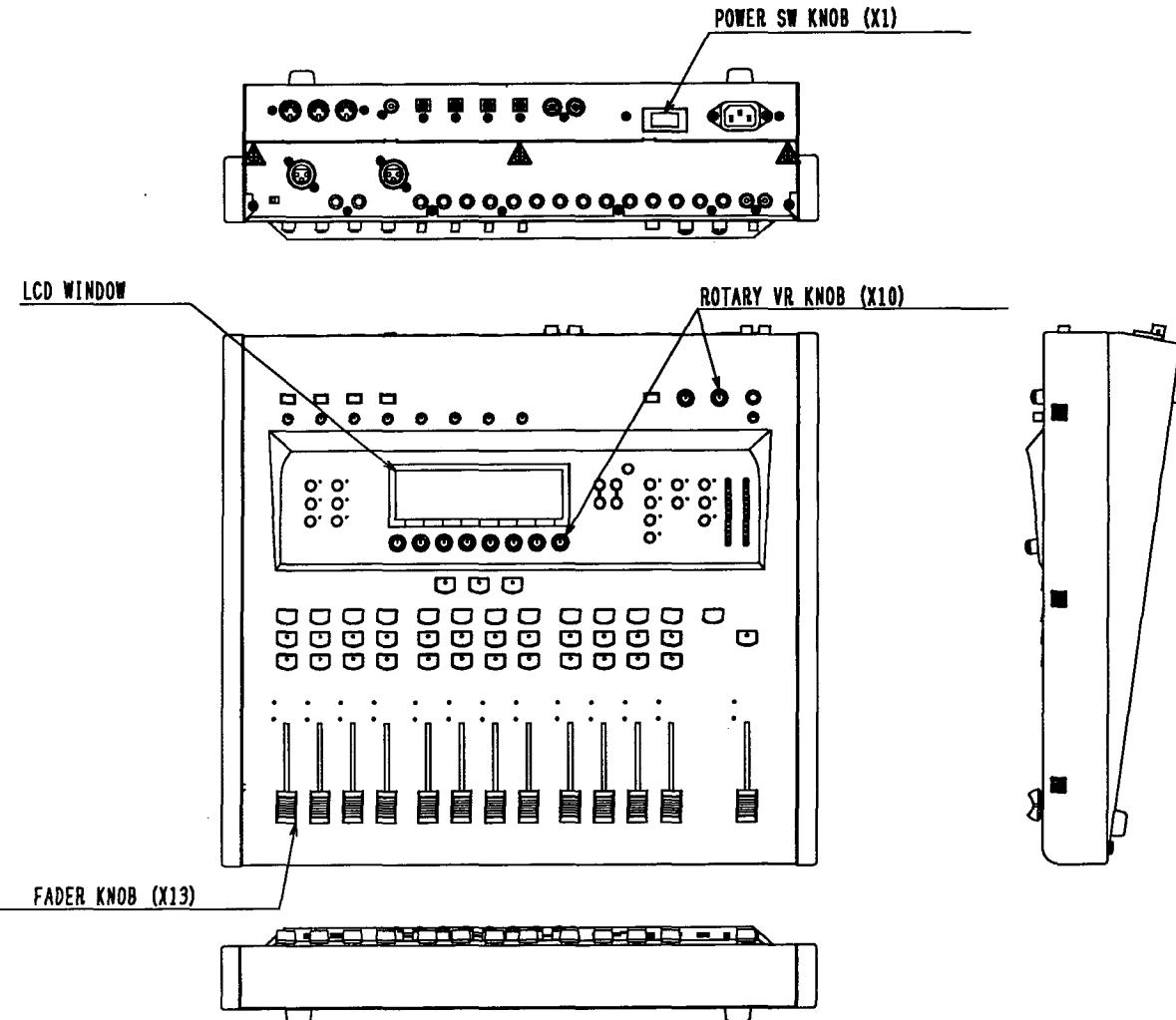
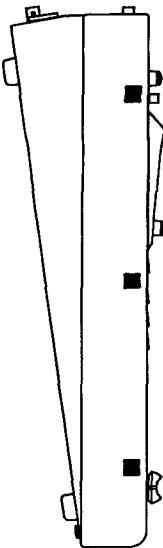
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KORG

1. DISASSEMBLY

WHOLE ASS' Y (1/3)

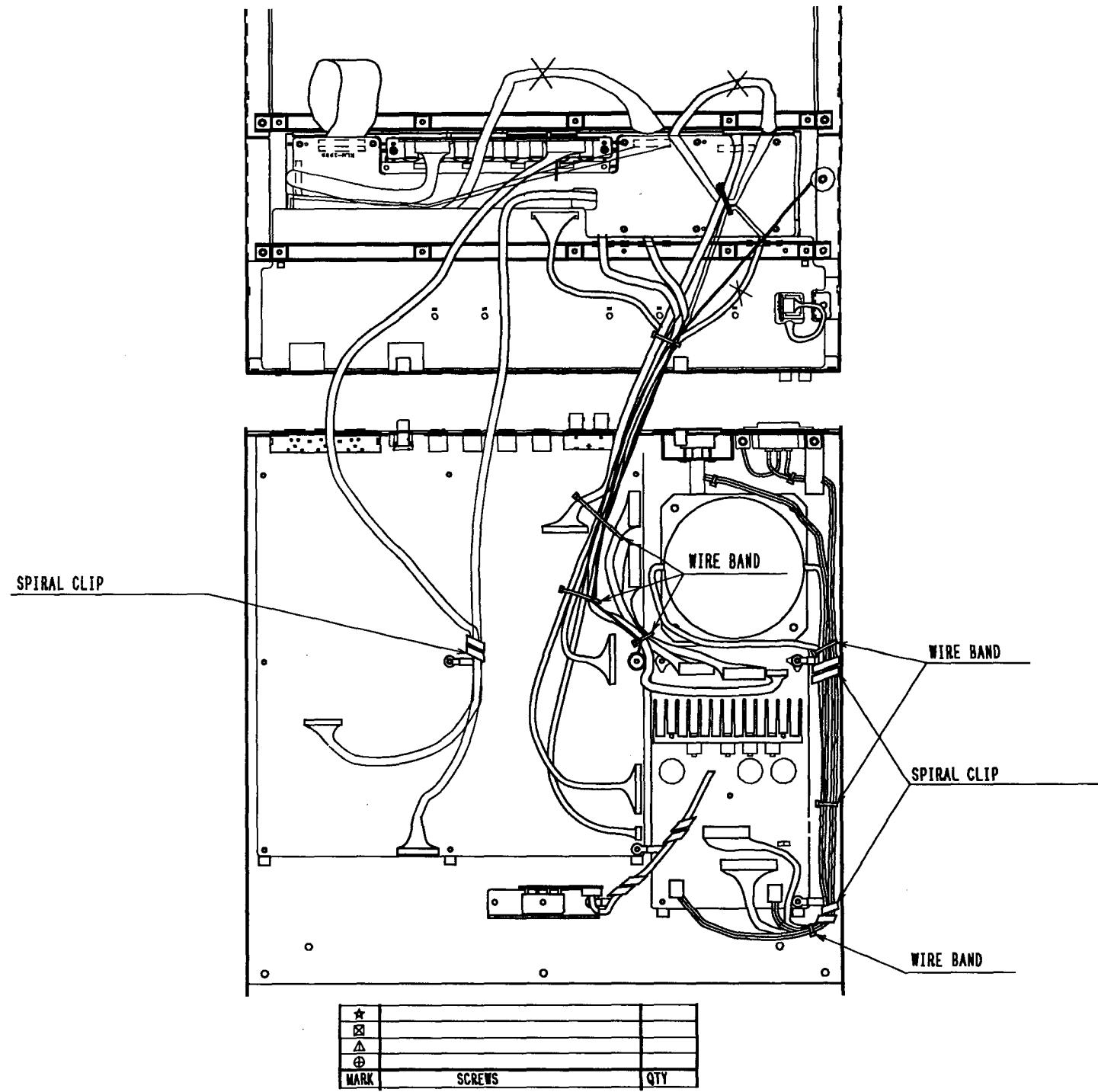
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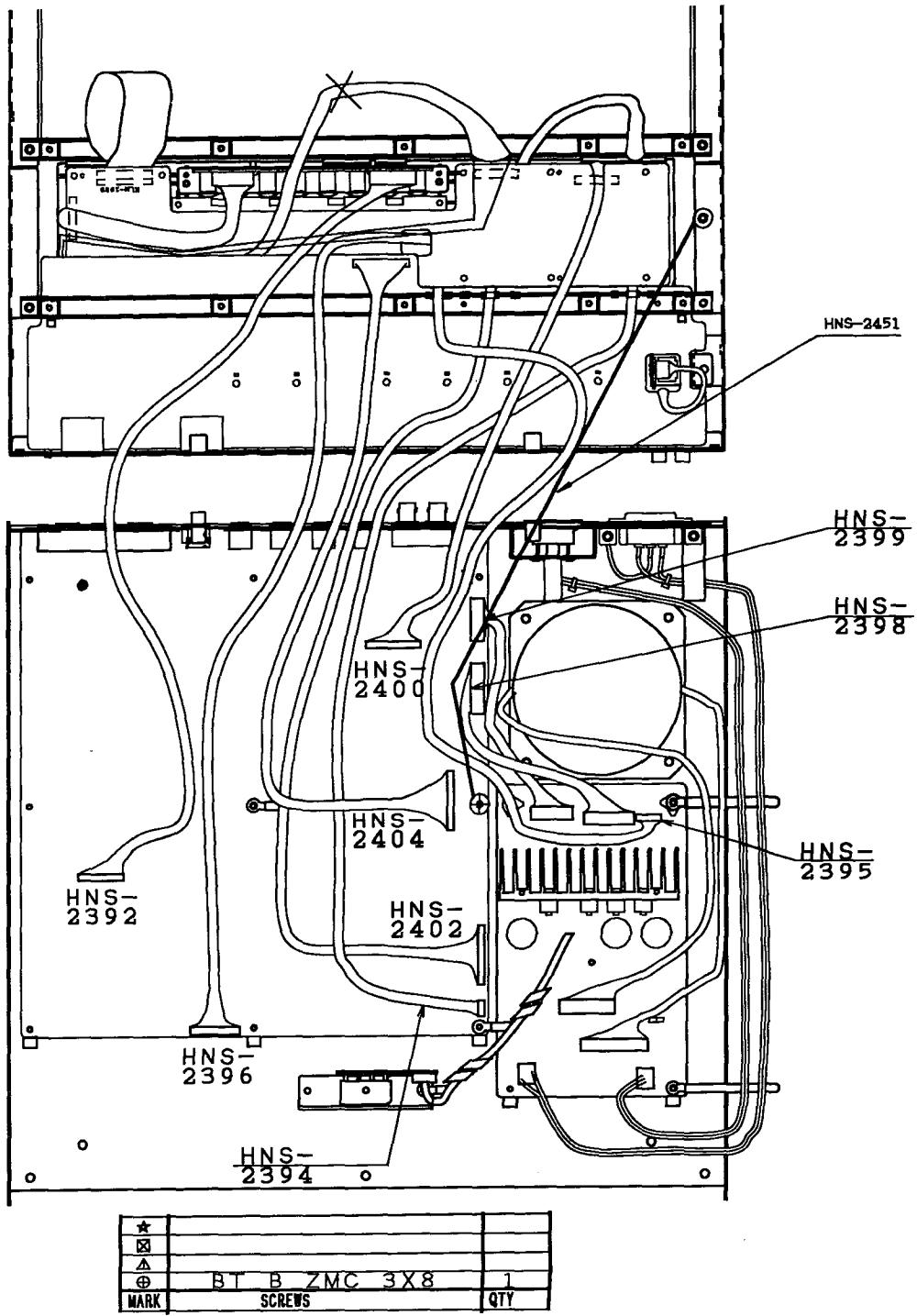
MARK	SCREWS	QTY
★	BT B BZMC 4X16	6
▲	BT B BZMC 4X10	6
MARK	SCREWS	QTY

WHOLE ASS' Y (2/3)

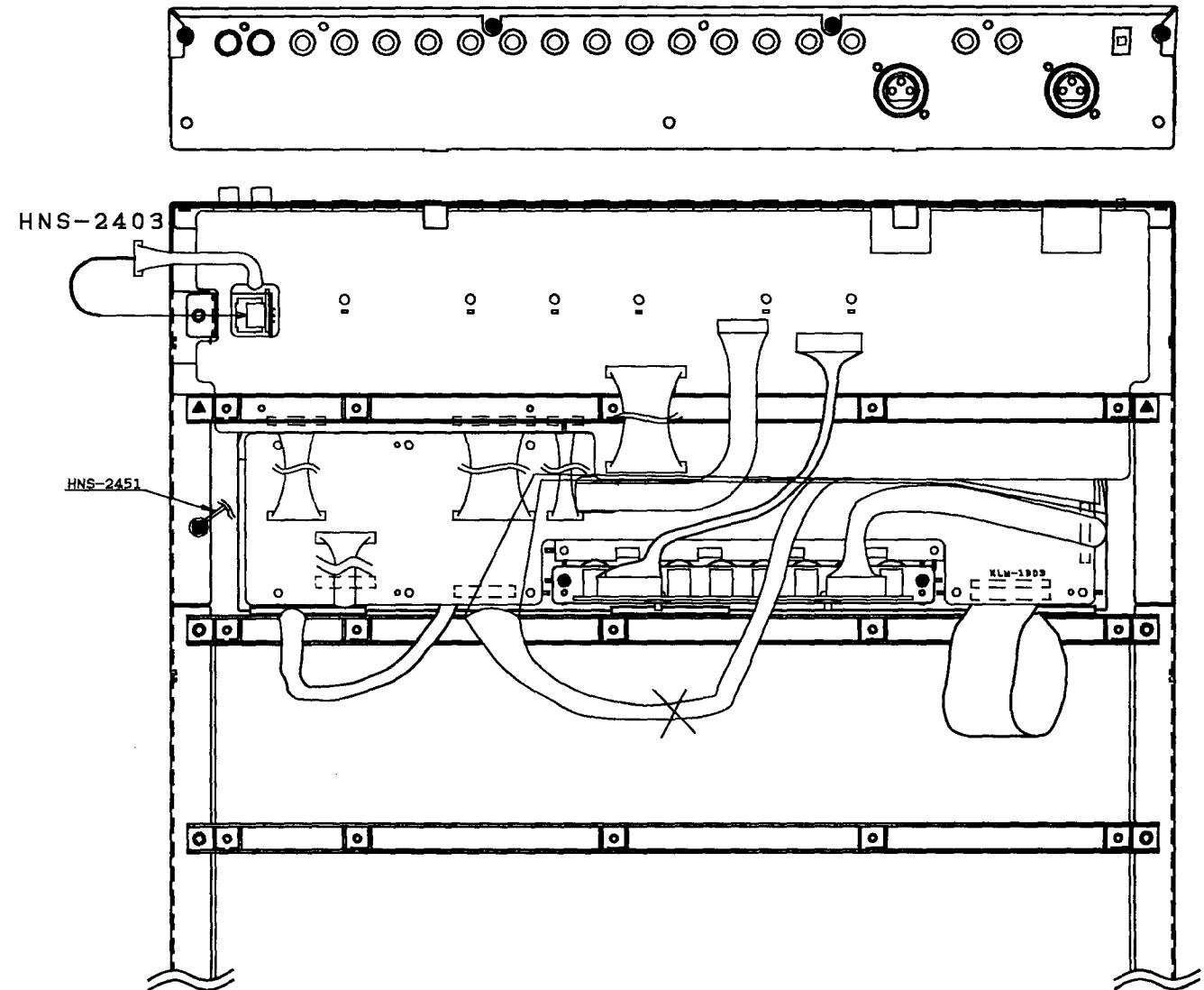
3



WHOLE ASS' Y (3/3)



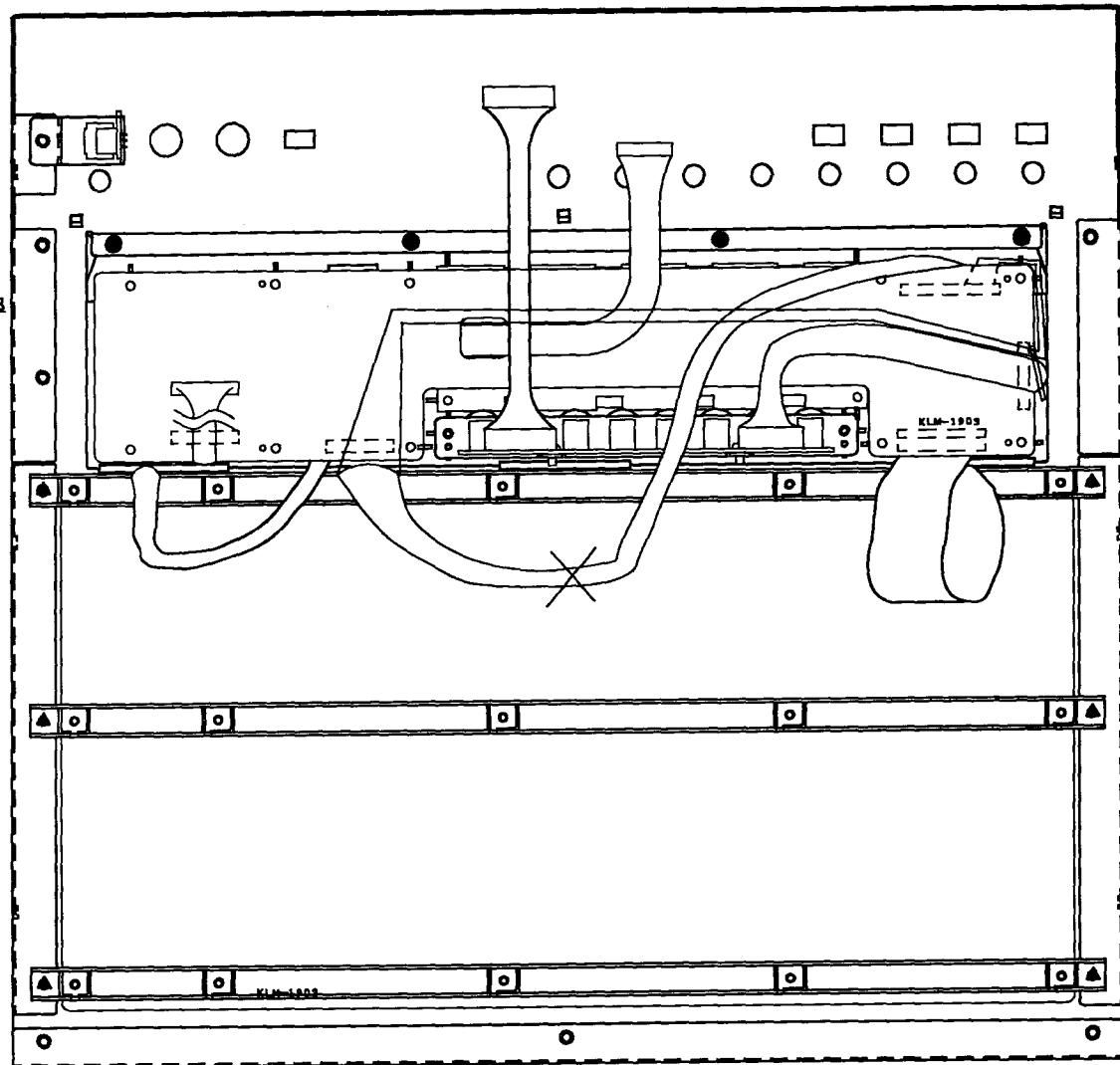
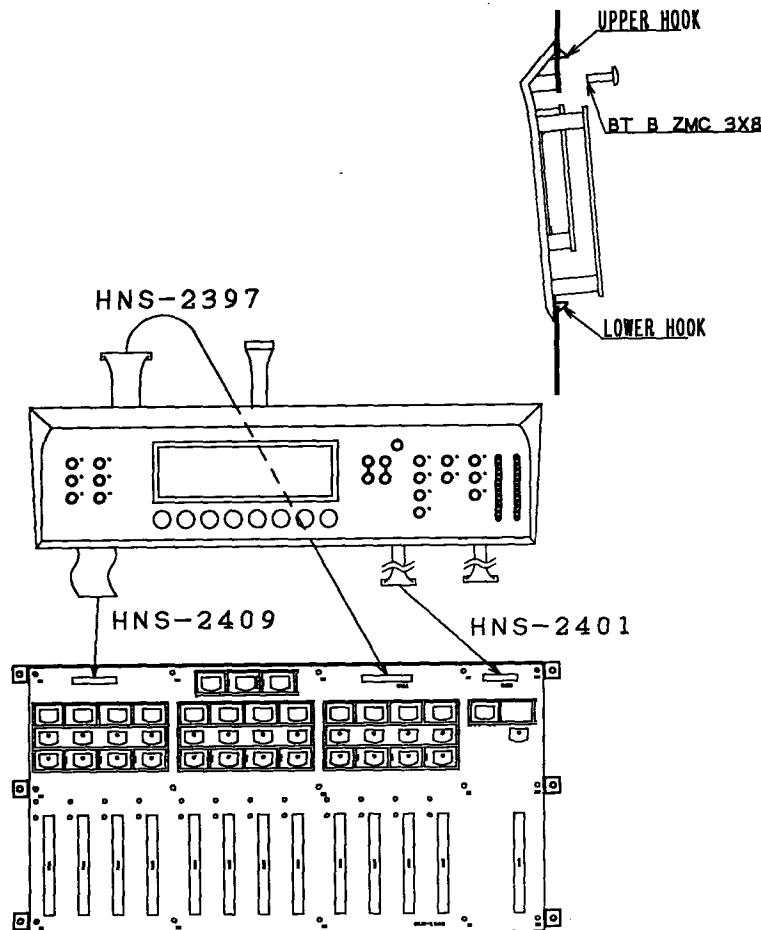
UPPER CASE ASS' Y (1/3)



MARK	SCREWS	QTY
■	T5 B SSE ZMC 4X10	1
▲	BT B ZMC 4X10	2
●	BT B BZMC 3X8	4
MARK		

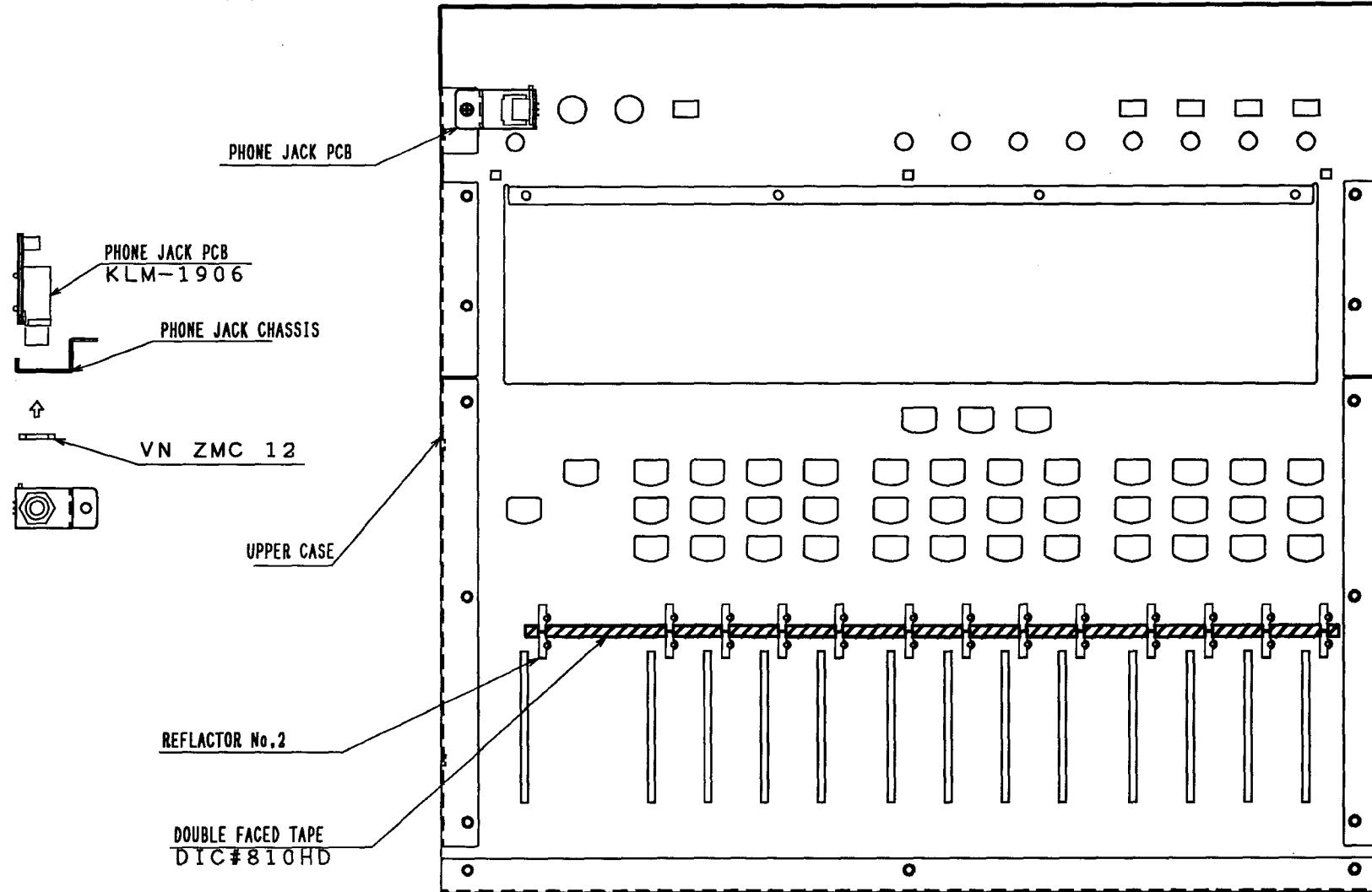
UPPER CASE ASS' Y (2/3)

6



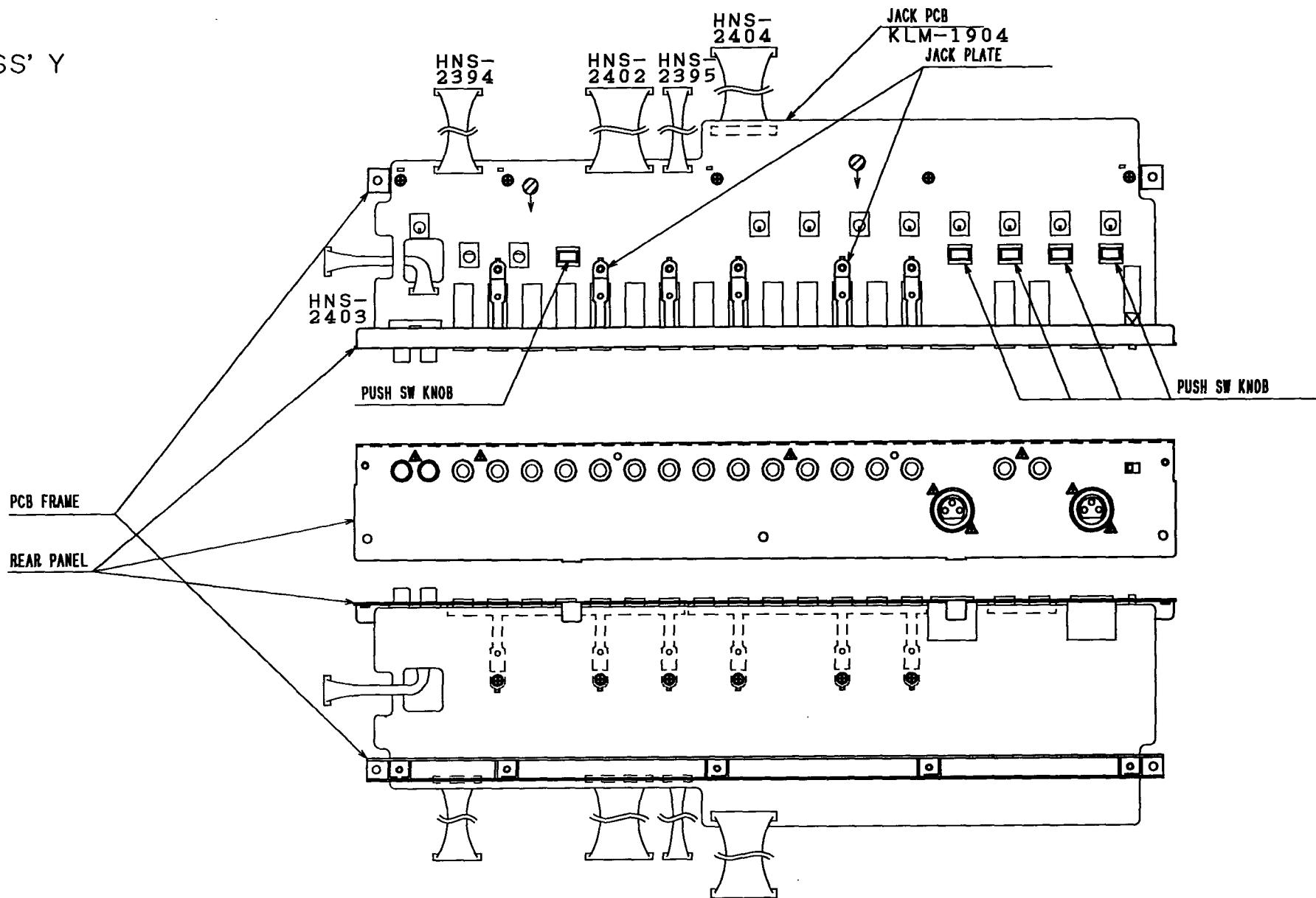
★		
▲	BT B ZMC 4X10	6
●	BT B ZMC 3X8	4
MARK	SCREWS	QTY

UPPER CASE ASS' Y (3/3)



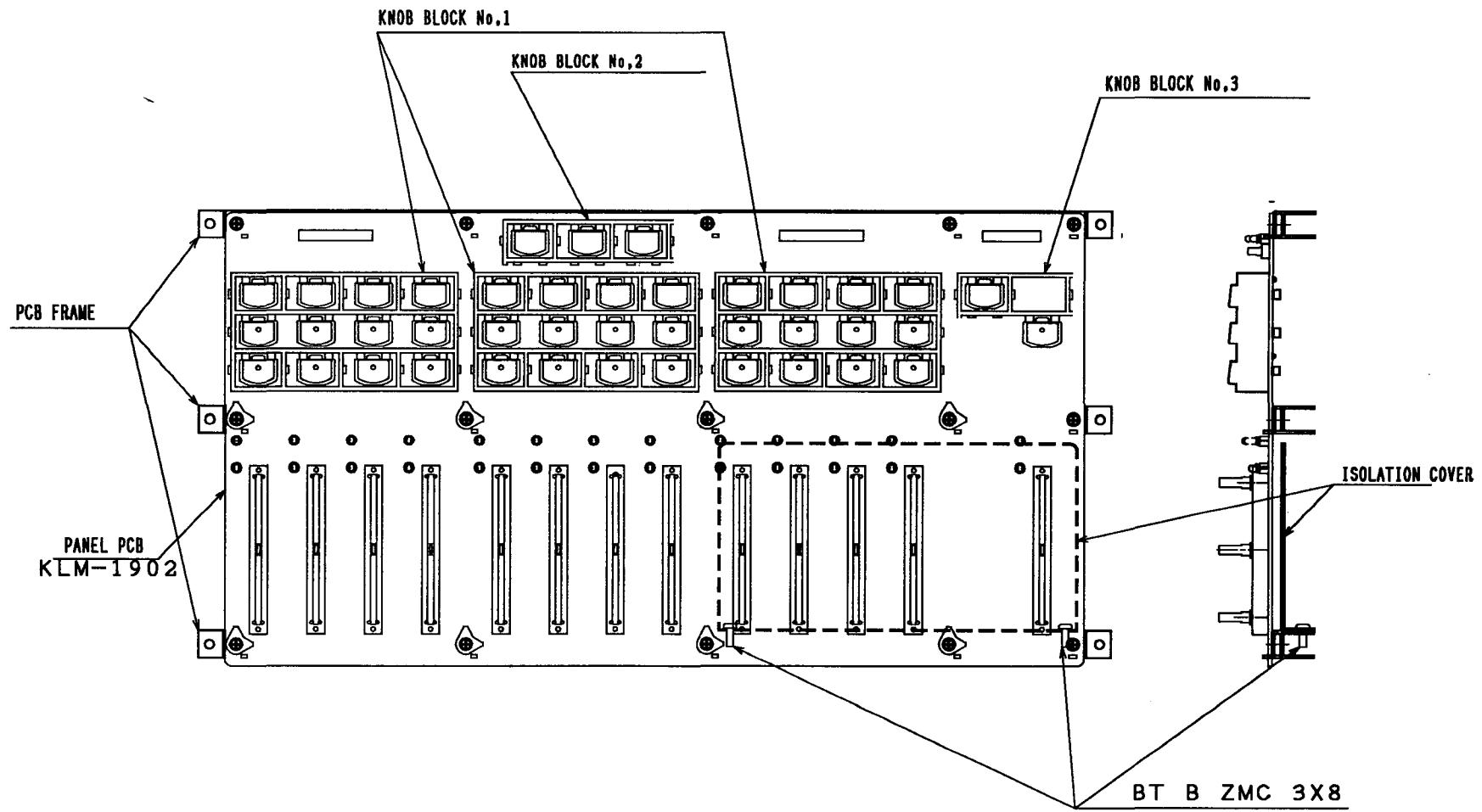
★		
▲	VN ZMC 12	1
●	BT B ZMC 4X10	1
MARK	SCREWS	QTY

JACK PCB ASS' Y



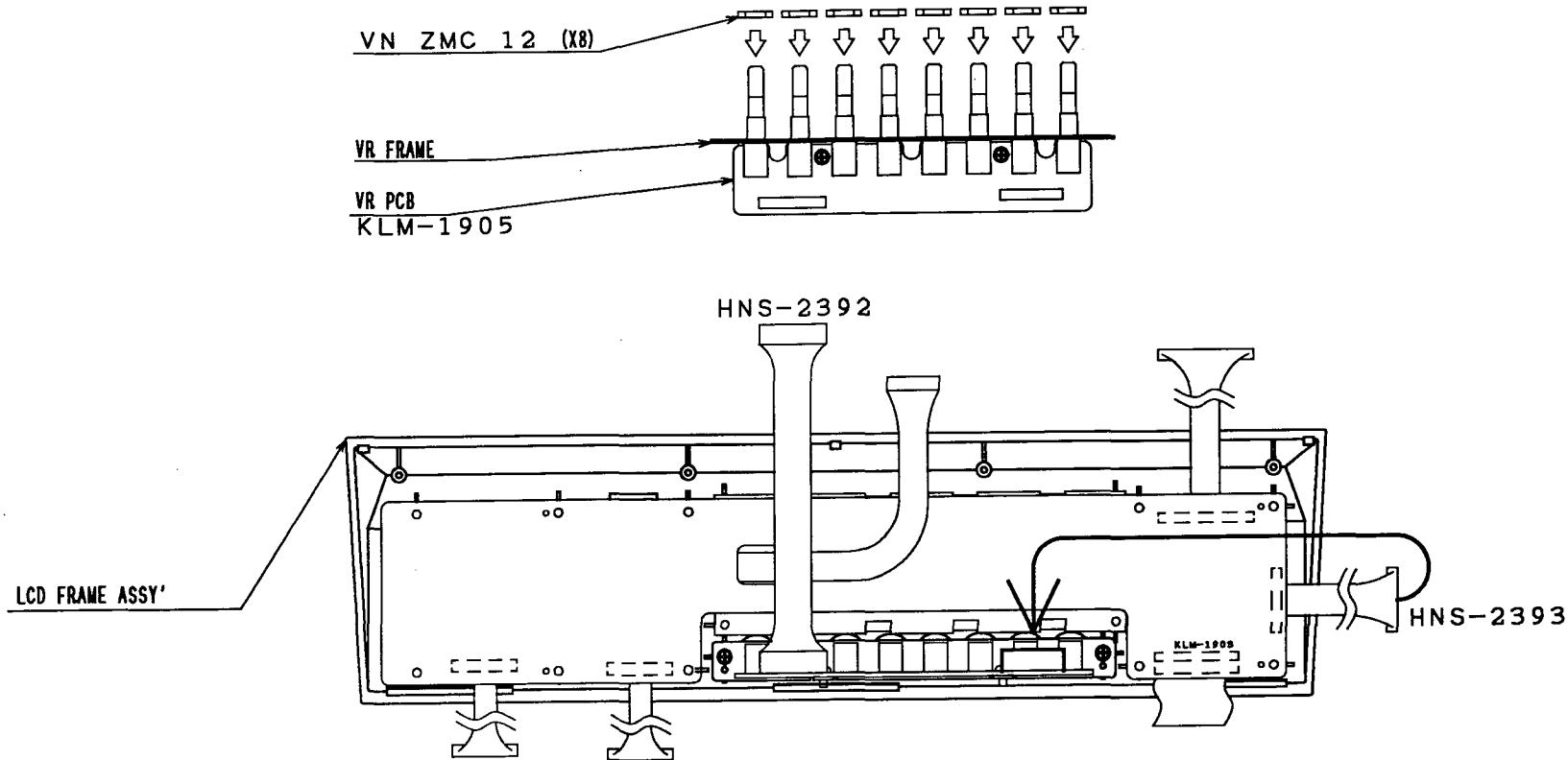
*		
▲	BT B BZMC 3X8	8
●	BT B ZMC 3X8	11
MARK	SCREWS	QTY

PANEL PCB ASS' Y



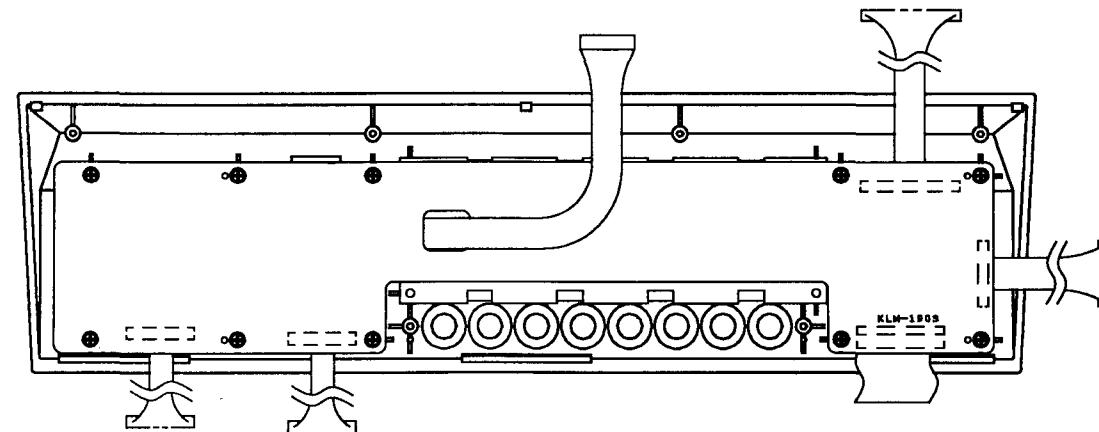
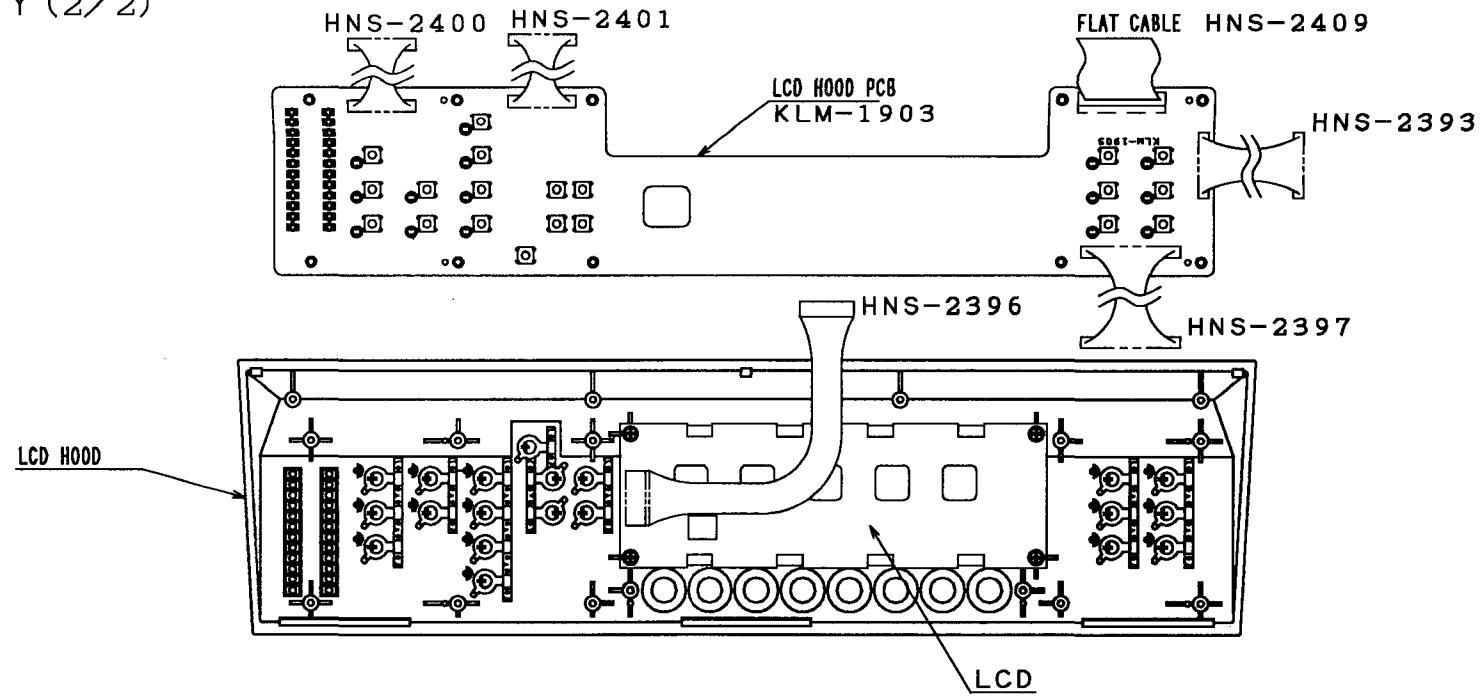
*			
■			
▲			
●	BT B ZMC 3X8	17	
MARK	SCREWS	QTY	

LCD HOOD ASS' Y (1/2)



★			
▲	V N B Z M C 7	8	
●	B T B Z M C 3 X 8	4	
MARK	SCREWS	QTY	

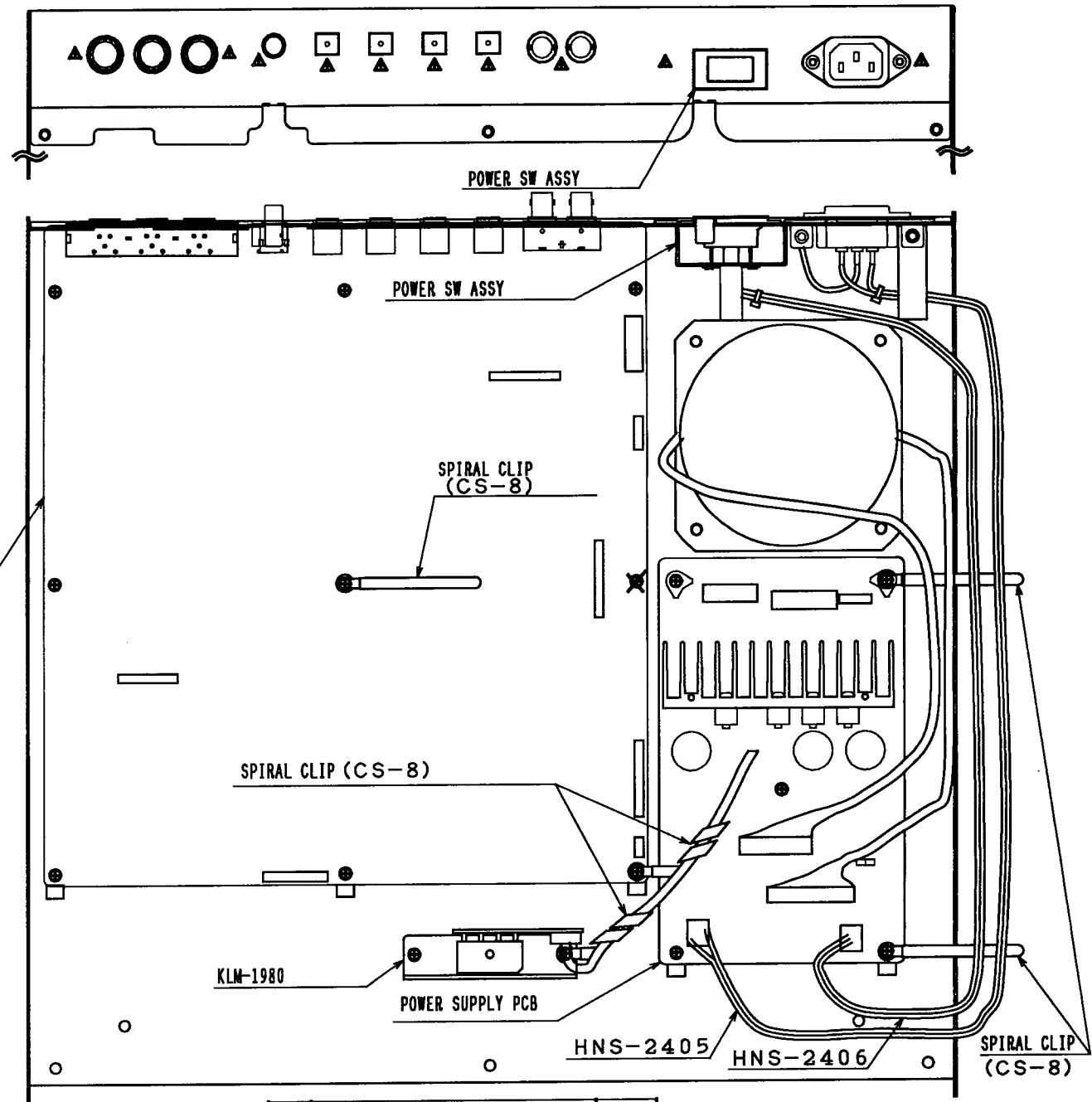
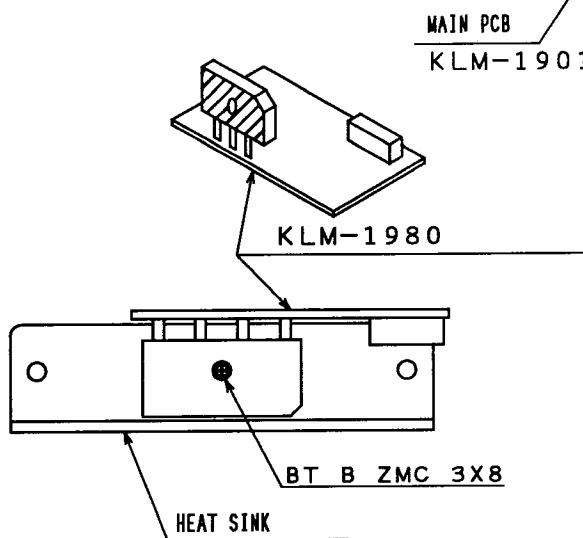
LCD HOOD ASS' Y (2/2)



★				
▲				
●	BT B ZMC 3X8		14	
MARK	SCREWS	QTY		

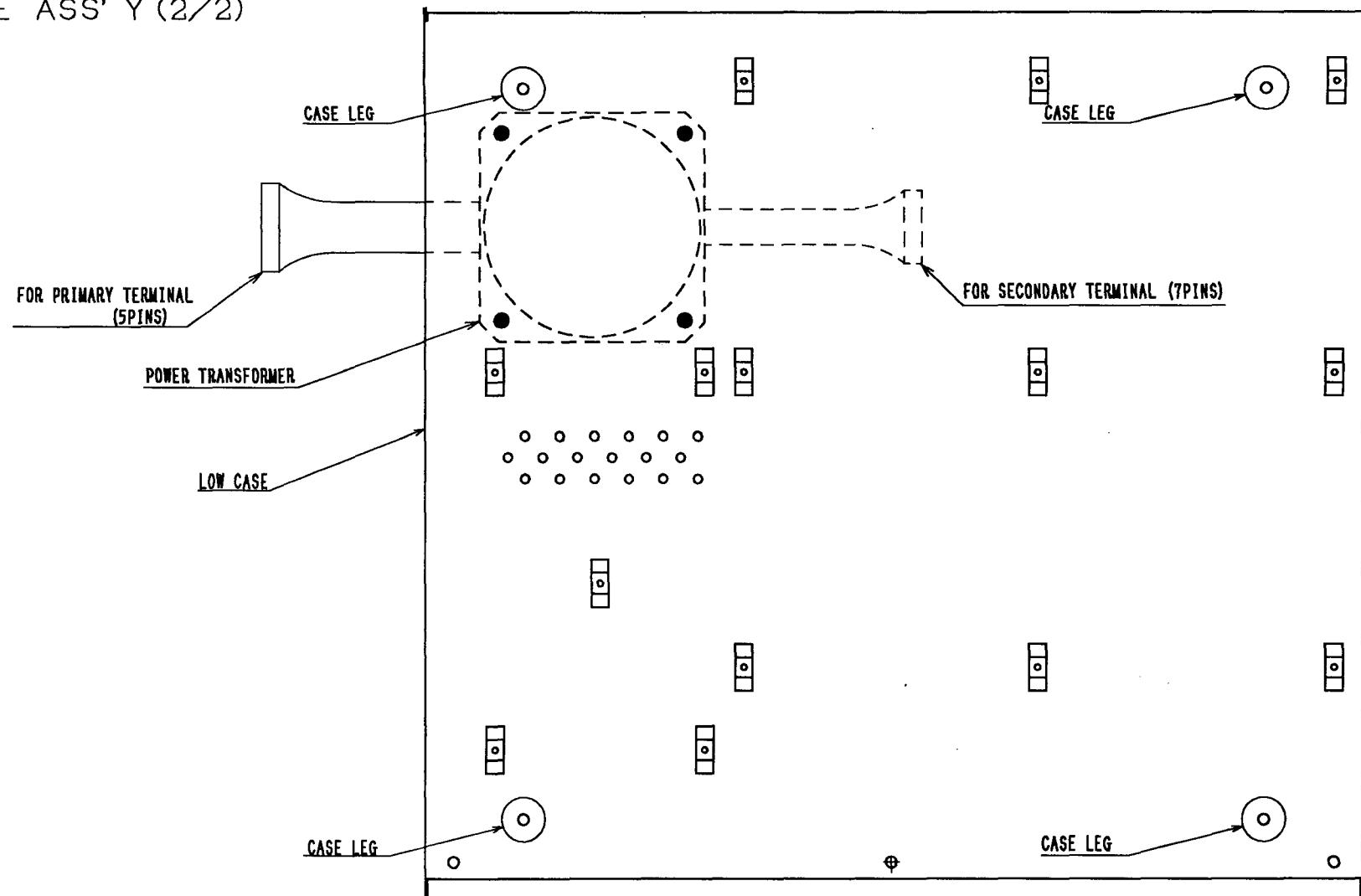
LOWER CASE ASS' Y (1/2)

12



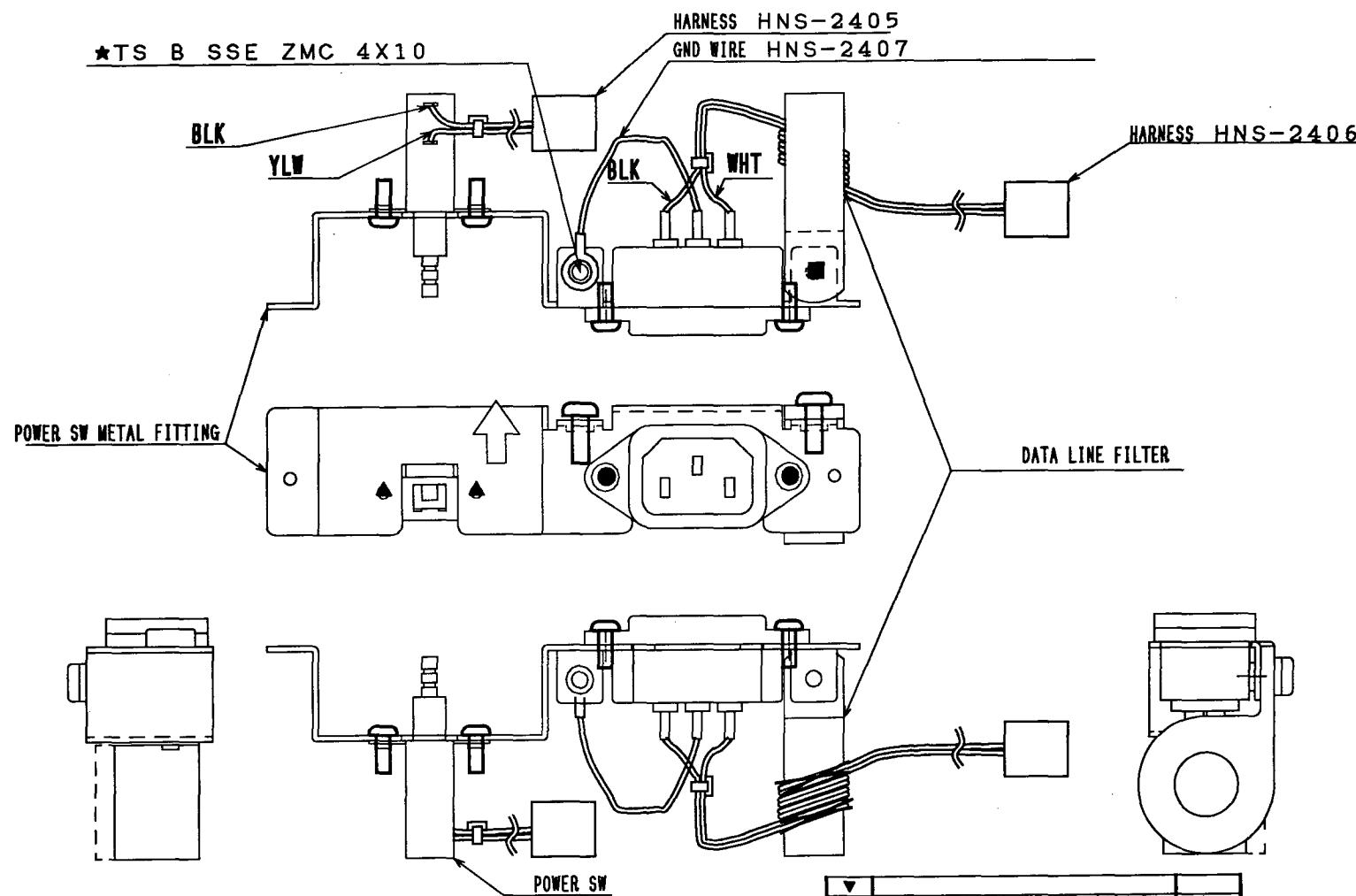
*		
▲	BT B ZMC 3X8	10
●	BT B ZMC 3X8	16
MARK	SCREWS	QTY

LOWER CASE ASS' Y (2/2)

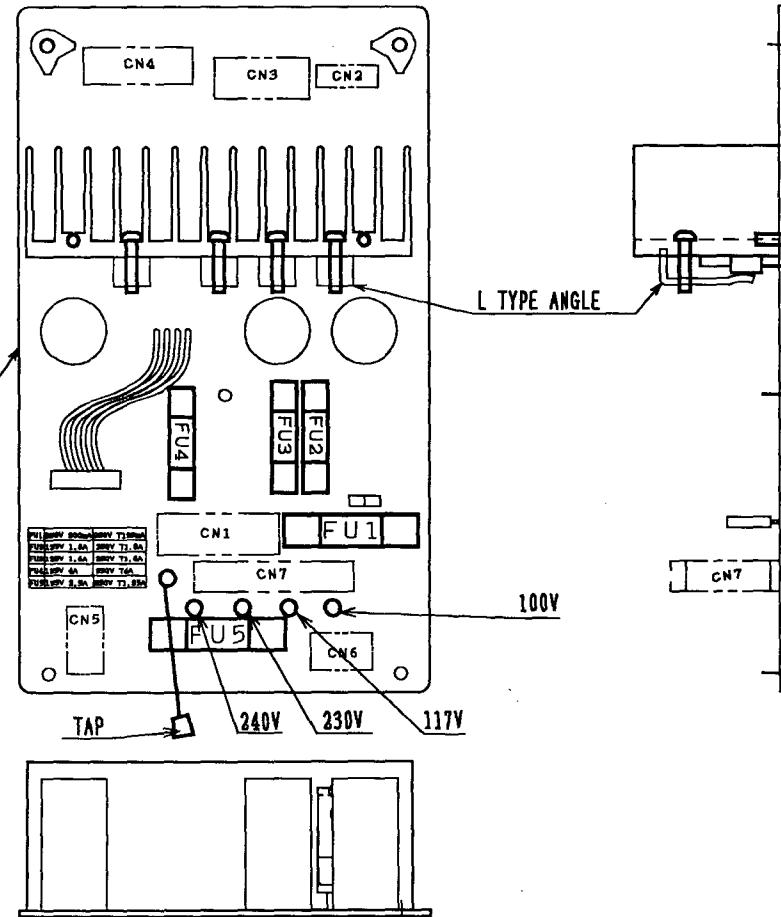
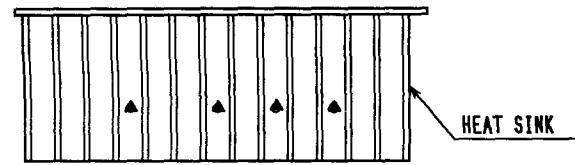


MARK	SCREWS	QTY
●	FHN ZMC 4 FE WSE BZMC 4x16	4 4

POWER SW ASS' Y

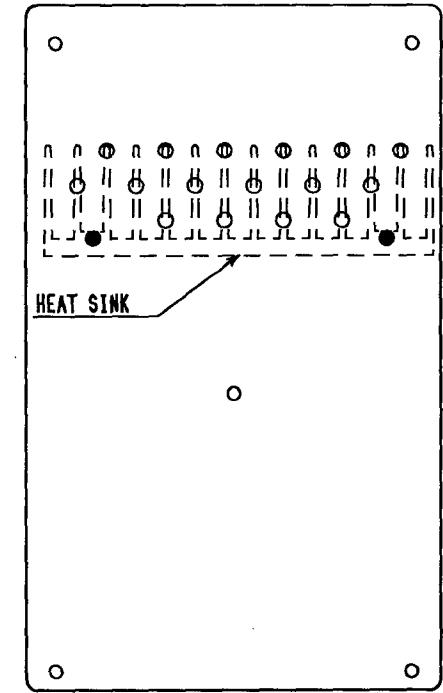


POWER SUPPLY PCB ASS' Y

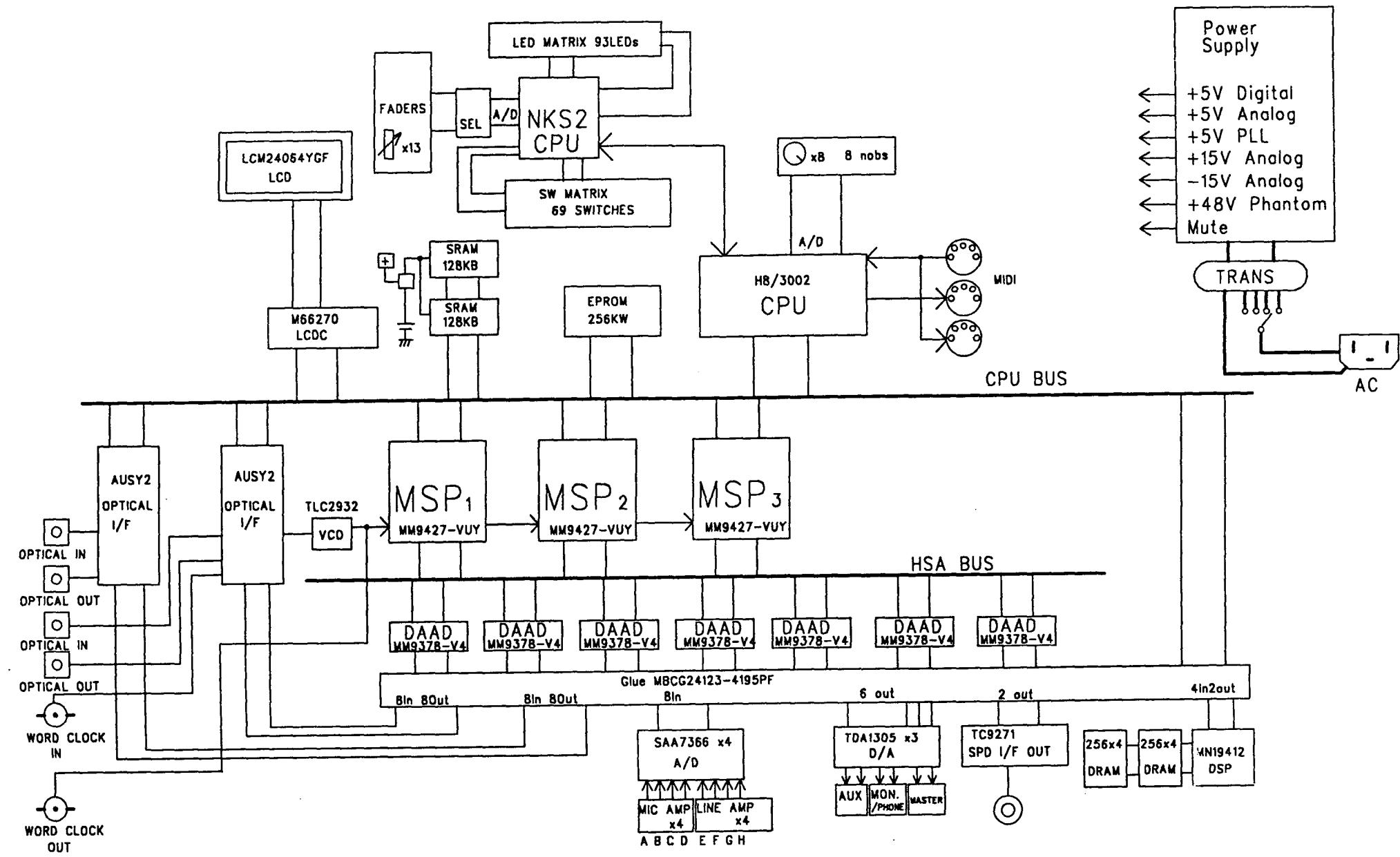


	100,117V	220/230,240V
FU1	250V 200mA	250V T1.25mA
FU2	125V 1.6A	250V T1.0A
FU3	125V 1.6A	250V T1.0A
FU4	125V 4A	250V T3.15A
FU5	125V 2.5A	250V T1.25A

▲	FE P ZMC 3X14	4
●	BT B ZMC 3X8	2
MARK	SCREWS	QTY



2. BLOCK DIAGRAM



3. TEST MODE

NOTICE: This test mode uses the SRAM area which is originally used as the user program area. Before entering the TEST MODE, please save all the data via MIDI. Otherwise, all the users' data would be lost.

To start TEST MODE

Connect a MIDI cable from MIDI OUT to MIDI IN.
Power on while pressing [MISC] and [SAVE] simultaneously. Keep pressing these switches on till "168RC" appears on the LCD.

To skip NG Process

When "NG" appears, pressing [Master Mute] can skip the NG process.

MIDI: Loop back TEST.

When the circuit and cable are O.K., the test proceeds to the next item.

MIDI IN PC1-IC35(CPU)
MIDI OUT IC35-IC36-DT1
MIDI THRU PC1-IC36-DT2

ROM: Check sum TEST.

When the result is O.K., the test proceeds to the next item.

IC35(CPU)-all devices connected CPU address and data BUS*
ROM:IC46

RAM: RAM Verify TEST.

When the result is O.K., the test proceeds to the next item.

IC35(CPU)-all devices connected the CPU address and data BUS*
RAM:IC51 and IC52

MSP1: Read back TEST. This only checks the CPU I/F part of the LSI.

When the result is O.K., the test proceeds to the next item.

IC10

MSP2: Read back TEST. This only checks the CPU I/F part of the LSI.

When the result is O.K., the test proceeds to the next item.

IC7

MSP3: Read back TEST. This only checks the CPU I/F part of the LSI.

When the result is O.K., the test proceeds to the next item.

IC8

DSP: Read back TEST. This only checks the CPU I/F part of the LSI.
When the result is O.K., the test proceeds to the next item.
Because of the unstable power condition, some displays NG.
Then, please enter the TEST MODE again without powering off.
When you finish the TEST MODE, the system proceeds to the ordinary mode
automatically. Here you can enter the TEST MODE again by pressing [MISC]
and [SAVE] simultaneously.
IC38 and DRAM IC39,43

Back up Battery: Check the voltage.
When the result is O.K., the test proceeds to the next item.
BATT1

All the devices tested here are located on KLM-1901 [Main PCB]

Devices connected CPU BUS
ROM : IC46
RAM : IC51,52
MSP : IC10,7,8
CPU BUS GLUE : IC29 Generate chip select and control dynamic wait
LCD controller : IC53
Optical I/F : IC4 & 6

Devices controlled via serial line by CPU
DSP : IC38
SPDI/F Out : IC3

Sampling clock	Devices
Xtal	: X1 For Internal clock
AUSY VCO	: XM1 Generate clock from Xtal/Dig In B XM2 Generate clock from Dig In B to read B data XM3 Generate clock from Wclk In/Dig In A XM4 Generate clock from Dig In A to read A data
Selector	: IC11
Top VCO	: IC12 Generate from 256Fs to 1024Fs
Divider	: IC16 For top VCO Div by 4

LED & SW

Step1: All LED On
Press [Master MUTE] or [^] to skip the LCD test.

Step2: SW Follow the message on the LCD to test each switch.

LCD black all
Press [Master MUTE].

LCD white all
Press [Master MUTE] or [^] to skip the VOLUME test.

VOLUME VOLUME TEST

At first, set the level to center (64), then max (127) and min(00).
Press [Master MUTE] or [^] to finish the test mode.

MSP

STEP1

Every outputs sin-like wave generated by MSP1

STEP2

Every outputs sin-like wave generated by MSP2

STEP3

Every outputs sin-like wave generated by MSP3

STEP4

Every outputs saw-like wave generated by DSP

Because of the unstable power condition, some cannot sound.

Then, please enter the TEST MODE again without powering off.

When you finish the TEST MODE, the system proceeds to the ordinary mode automatically. Here you can enter the TEST MODE again by pressing [MISC] and [SAVE] simultaneously.

System architecture

*CD# means Circuit Diagram number

[CPUs] KLM-1901 CD#1/12, KLM-1903 CD#3/3

There are two CPUs. One works as the controller for the panel devices [LEDs, switchs, and Faders] and Changed condition of faders and switchs are reported to the main CPU via serial lines. This is the same chip as it is used on the Trinity. The other is, called the main CPU, which works for DSPs, LCDs and MIDI. This works with an EPROM and two SRAMs. They are saved with the back-up battery.

[System Program] KLM-1901 CD#1/12, KLM1903 CD#3/3

The main CPU uses 4MB EPROM 40pins DIP 256k x 16bit type
The sub CPU has its own ROM inside and it should be version NKS2.5.

[System Clock]

CPU's system clock is provided from the clock of crystal oscillator.
The main CPU has 16MHz crystal and the sub CPU has 20MHz crystal.
16MHz of the main CPU's clock is used for the LCD controller.

[DSPs] MSPs KLM-1901 CD#8/12, DAADs CD#7/12, DSP for effect CD#5/12

168RC has four DSPs. Three of them are functions for the mixer section and the other one is functions for the effect section.
Three DSPs named MSP, developed by the KORG R&D, has its original I/O architecture, so they need I/F LSI to connect the ordinary digital audio devices, which is called DAAD. A DSP for effects is a standard device MN19412, which is used on the Trinity.

[Sampling clock] KLM-1901 CD#2/12,6/12

This selected MISC MODE one from [INT, Dig In A, Dig In B, WCLK In].

- | | |
|------------|---|
| INT | : Source is 24MHz Xtal of AUSY2's block. |
| Dig IN A,B | : The clock is extracted from Adat optical signal by each AUSY2. |
| WCLK IN | : AUSY2 receive the WCLK source via BNC connector. |
| Selector | : Every clocks are fed to the selector[IC11] then are transmitted to the top VCO[IC12] to generate 1024Fs which locked to a selected source. MSPs, DAADs, D/As, A/Ds and SPDI/F are all locked to this top clock. |
| DSP | : MN19412 also locks this but needs another system clock.
This is generated by a 40MHz Xtal[X3] with this chip.
KLM-1901 CD#5/12 |

[LCD] KLM-1901 CD#12/12

This is controlled by the main CPU and Controller Chip[IC53]. The drive voltage is regulated from analog -15V by IC54 on KLM-1901 main board.
It is required for the contrast adjustment. The wires of CN9A are all for the LCD module. CN6A is for the LCD contrast volume.

PCB description

KLM-1901 : Main Board placed lower case 4 layered PCB

Includes Main CPU, ROM, RAM, LCD Controller
Sampling clock VCOs, Selector
MSPs, DAADs, DSP, A/Ds, D/As, SPDI/F, adat I/Fs

KLM-1907 : Power supply placed lower case single sided PCB

Traditional dolopper style circuit is used.
Supplying : Digital +5V
 Analog +5V
 VCO +5V
 Analog +15/-15V
 Phantom +48V

KLM-1980 : Diode block only. This is for all +5V. Single sided.

KLM-1904 Analog Board Double sided PCB

Mic amp, Line amp for inputs and line amp, headphone amp LCD contrast volume are located.

KLM-1906 : For a headphone Jack. Double sided.

KLM-1903 : Sub CPU, SWs and LEDs. Double sided PCB

Including NIGEL: panel control sub CPU. This controls the KLM-1902's devices.
The sub CPU is controlled by main CPU via serial lines.

KLM-1902 : Faders, SWs and LEDs Single sided PCB

Control matrix lines come from KLM-1903

KLM-1905 : Eight volumes with SWs. No active devices. Double sided PCB

Directly connected to the main CPU's A/D ports. SWs go to the sub CPU
on KLM-1903

Main parts and functions

Main PCB KLM-1901

CPU	H8/3002 CD#1/12 IC35
ROM	256k x 16bit EPROM CD#1/12 IC46
SRAM	128k x 8bit CD#1/12 IC51,52 battery back-uped
LCDC	M66270FP CD#12/12 IC53
GLUE	CG24123-4195 CD#9/12 IC29 Control chip which functions to select for MSPs and AUSYs and adjust timing between DAAD and other digital audio devices.
A/D	SAA7366T CD#3/12 IC17 Analog A,B IC21 Analog C,D IC31 Analog E,F IC34 Analog H,G
D/A	TDA1305T CD#4/12 IC44 Monitor L/R IC48 Master L/R IC55 AUX 1/2
SPDI/F	TC9271F CD#4/12 IC3 Master L/R

adatI/F AUSY2 CD#6/12

AUSY#1 IC6 Dig A In/Out with XM3,4 VCOs
 AUSY#2 IC4 Dig B In/Out with XM1,2 VCOs

DAAD MM9378-V4 CD#7/12

IC24 Digital audio interface to AUSY#1 Dig A
 IC25 Digital audio interface to AUSY#1 Dig A
 IC22 Digital audio interface to SPDIF and Master L/R Out and A,B,C,D input
 IC23 Digital audio interface to DSP for Fx
 IC13 Digital audio interface to AUSY#2 Dig B
 IC14 Digital audio interface to AUSY#2 Dig B
 IC9 Digital audio interface to Aux1/2 out, monitor L/R out and E,F,G,H input

MSP MM9427-VUY CD#8/12

IC10 Processor for Ch1-6 channel strip functions including EQs
 IC8 Processor for Ch7-12 channel strip functions including EQs
 IC7 Processor for Bus,monitor functions
 * all In/Out of the digital audio signal are routed via the seven DAADs.

Sampling clock Devices CD#2/12, 6/12

Xtal X1 : For Internal clock
 AUSY VCOXM1 Generate clock from Xtal/Dig In B
 XM2 : Generate clock from Dig In B to read B data
 XM3 : Generate clock from Wclk In/Dig In A
 XM4 : Generate clock from Dig In A to read A data
 Selector 74AC153
 IC11 : Select a source for system sampling frequency
 Top VCO T2932
 IC12 : Generate from 256Fs to 1024Fs
 Divider 74AC161
 IC16 : For top VCO Div by 4

Connectors on KLM-1901 Main board

Number	Destination	# of pins	Function
CN2A	KLM-1907	6	Receive POWER for Digital
CN3A	KLM-1907	7	Receive POWER for Analog
CN2	KLM-1903	12	I/F to NIGEL(sub cpu) send power
CN4A	KLM-1904	16	Analog signal input
CN5A	KLM-1904	13	Analog signal output
CN6A	KLM-1904	3	LCD contrast control
CN9A	LCD Module	14	LCD display control
CN7A	KLM-1905	10	Analog input of eight nobs position

Connectors on KLM-1907 Power Supply board

Number	Destination	# of pins	Function
CN15A	AC Inlet	2	AC LINE Input
CN16A	AC SW	2	AC POWER SW
CN5	Transformer	5	To Transformer
CN4	Transformer	8	From Transformer
CN2A	KLM-1901	6	POWER for Digital
CN3A	KLM-1901	7	POWER for Analog
CN17B	KLM-1904	6	POWER for Analog

Connectors on KLM-1904 Analog board

Number	Destination	# of pins	Function
CN4B	KLM-1901	16	Analog output after D/A
CN17A	KLM-1907	6	Power supply lines
CN5B	KLM-1901	13	Analog signal to A/D
CN14A	KLM-1906	4	Head phone signal
CN6A	KLM-1901	3	LCD contrast

Connectors on KLM-1903 Sub CPU board

Number	Destination	# of pins	Function
CN13A	KLM-1905	9	Switch matrix lines for the eight nobs
CN2	KLM-1902	24	Switch and LED matrix for the Fader PCB
CN11B	KLM-1902	14	Switch and LED matrix for the Fader PCB
CN12B	KLM-1902	12	Faders position to the sub CPU's A/D port
CN1B	KLM-1901	12	Power supply and serial lines to the main CPU

How to exchange the system ROM

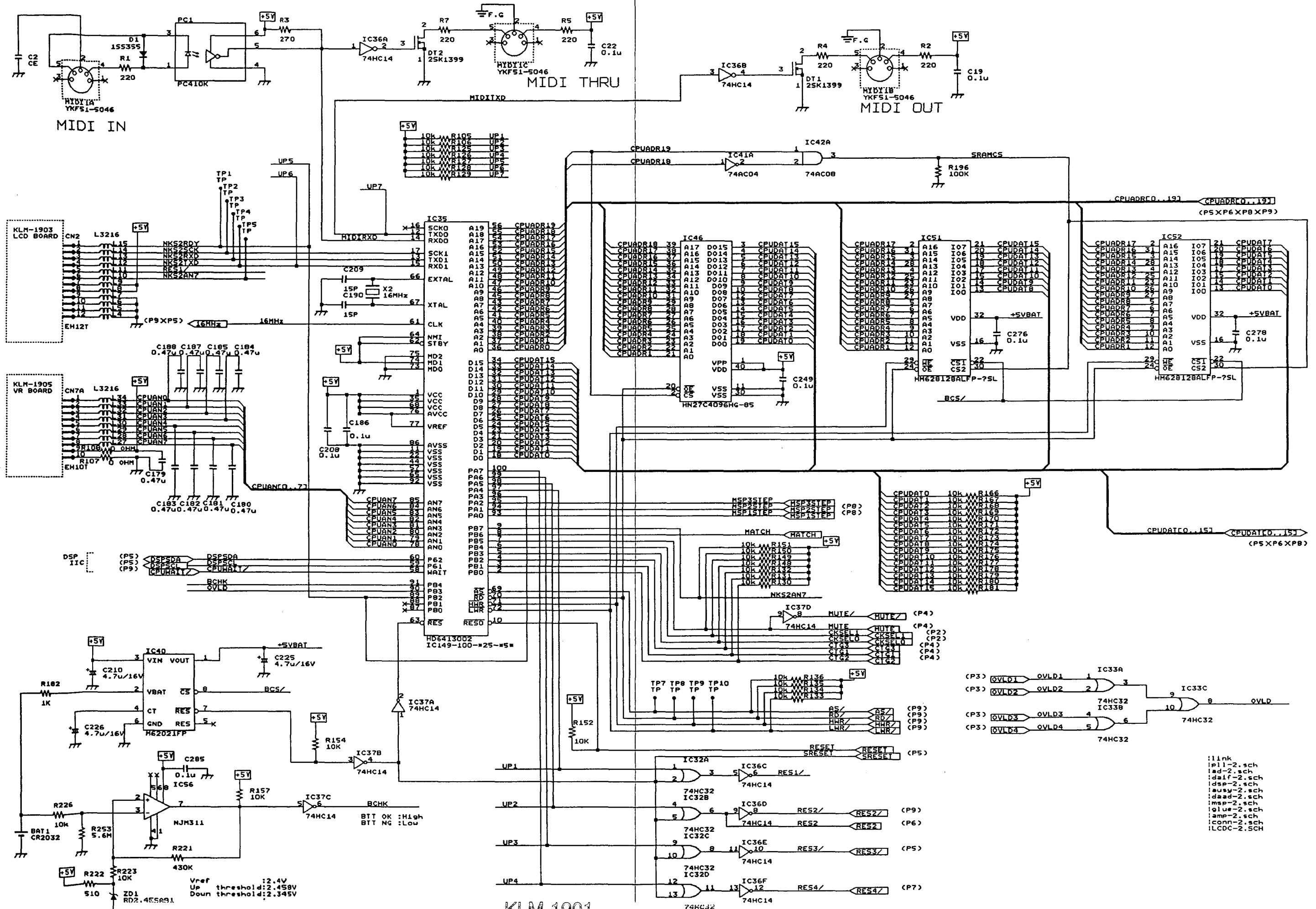
Official ROM Version is 960702 "Ver.1.1" or later
Do not use 960701 "Ver.1.0". This causes EQ noise.

Sometimes the user data will disappear by accident. All data dump keeps the process more safety.

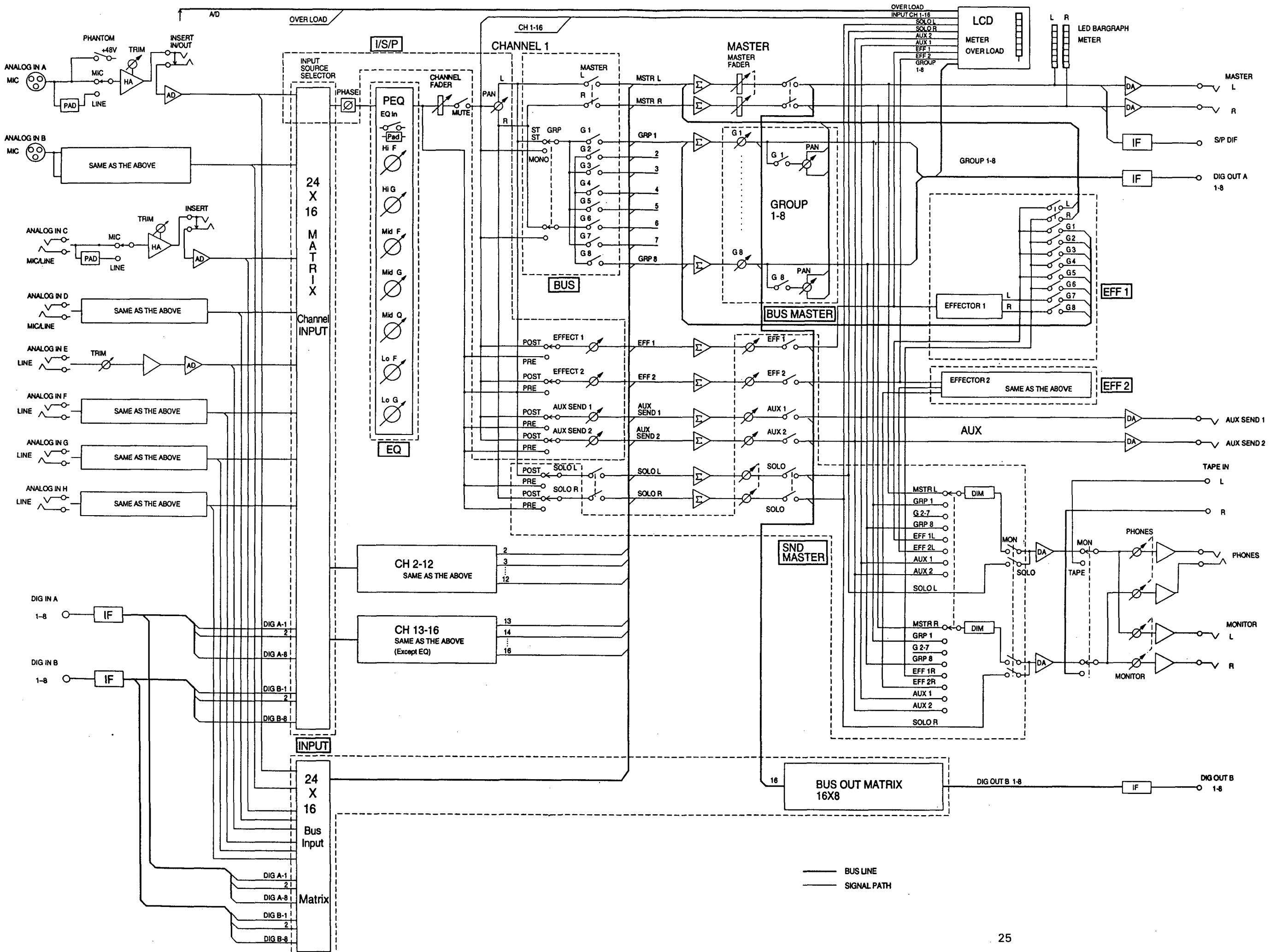
1. remove 12 screws
3 pcs. each of the rear,right, left and front bottom side.
2. Open upper case
First, pull the upper case horizontally till it does not touch the lower case. Then, put the upper case vertically on the rear side.
3. Change a ROM
ROM is placed on a socket. Do not touch the back-up battery circuit, otherwise, RAM [user] data would disappear.
4. Close upper case
Note the edge of upper case is easy to hurt the painted surface of the lower case.
5. Fasten the removed 12 screws

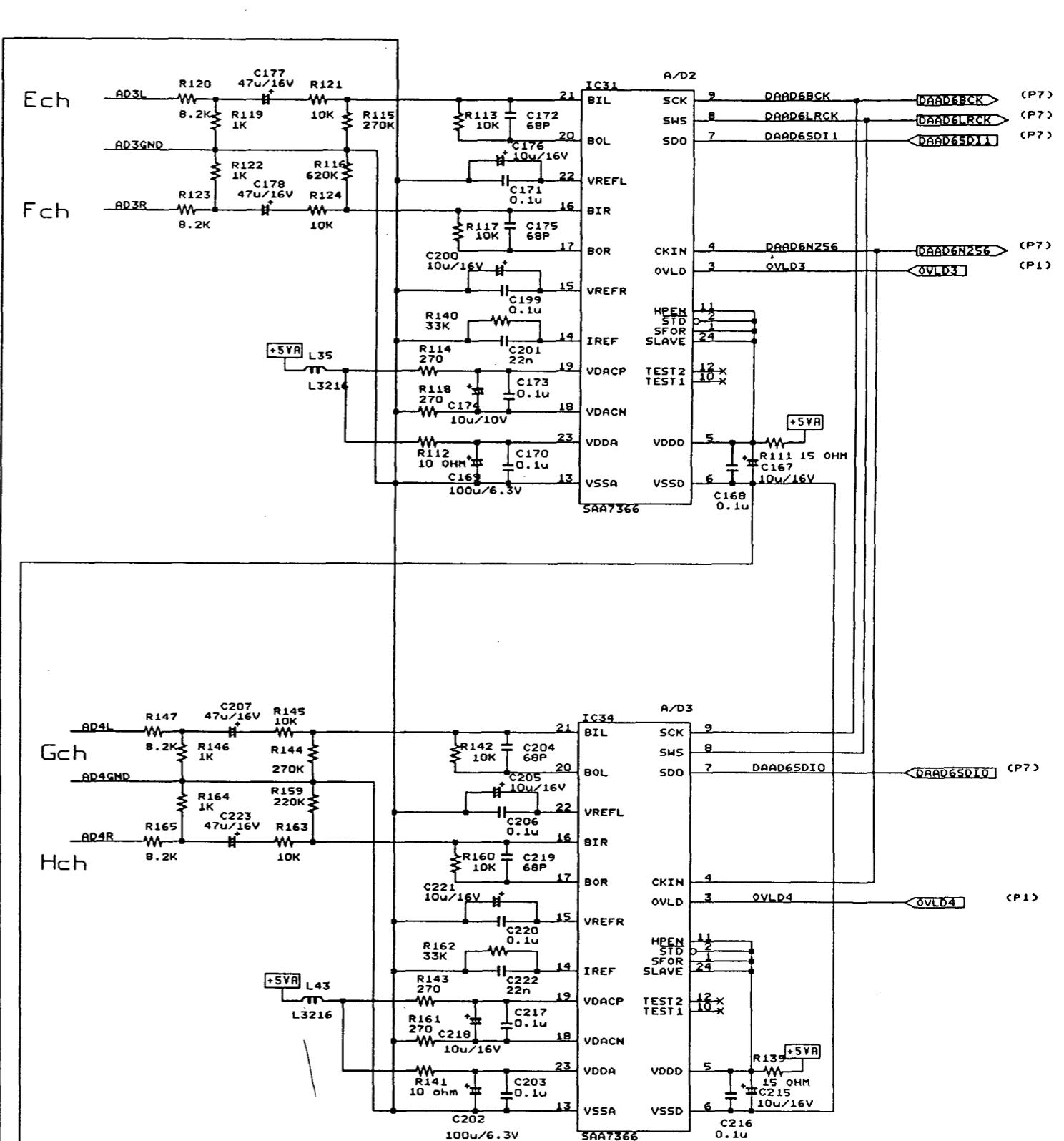
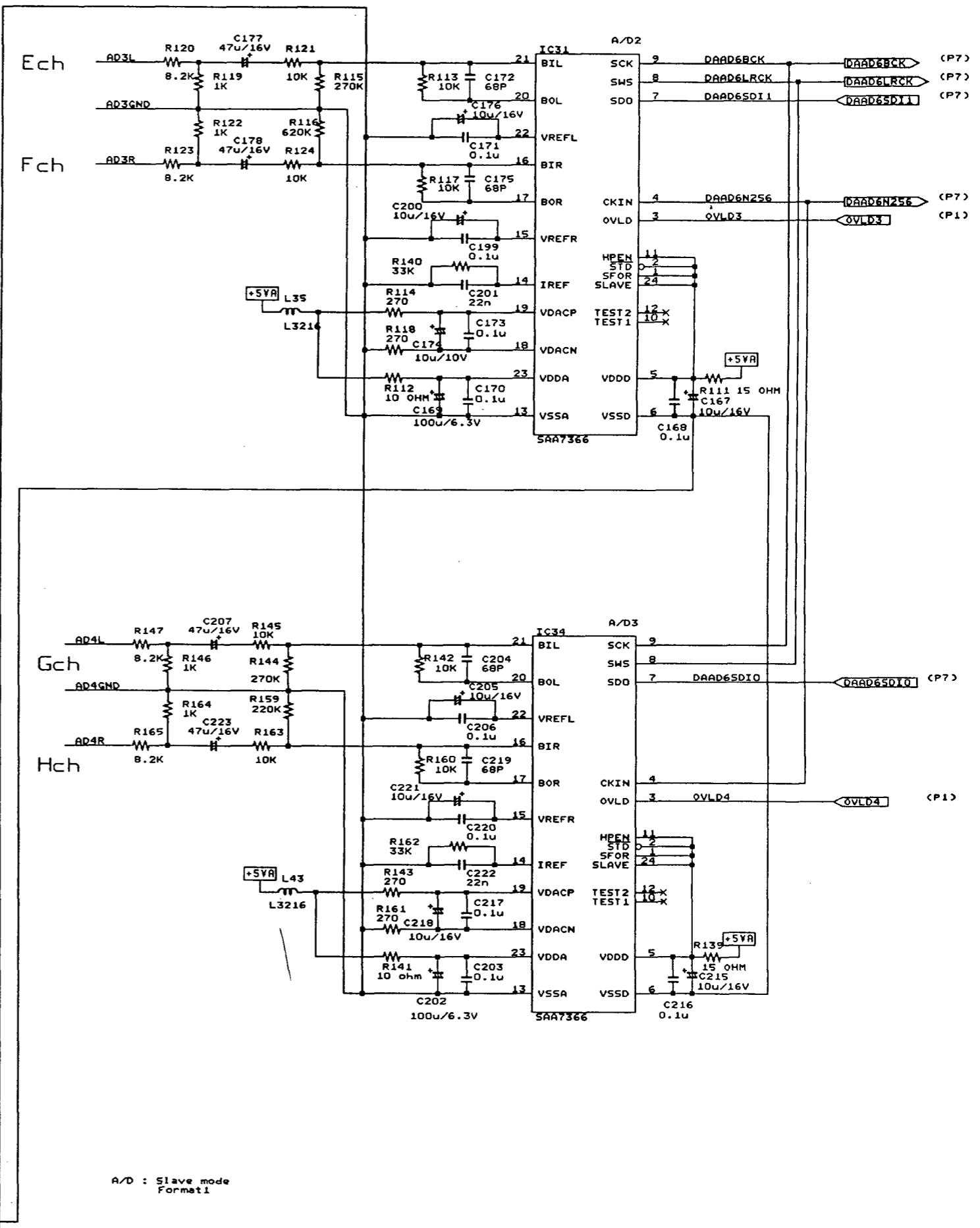
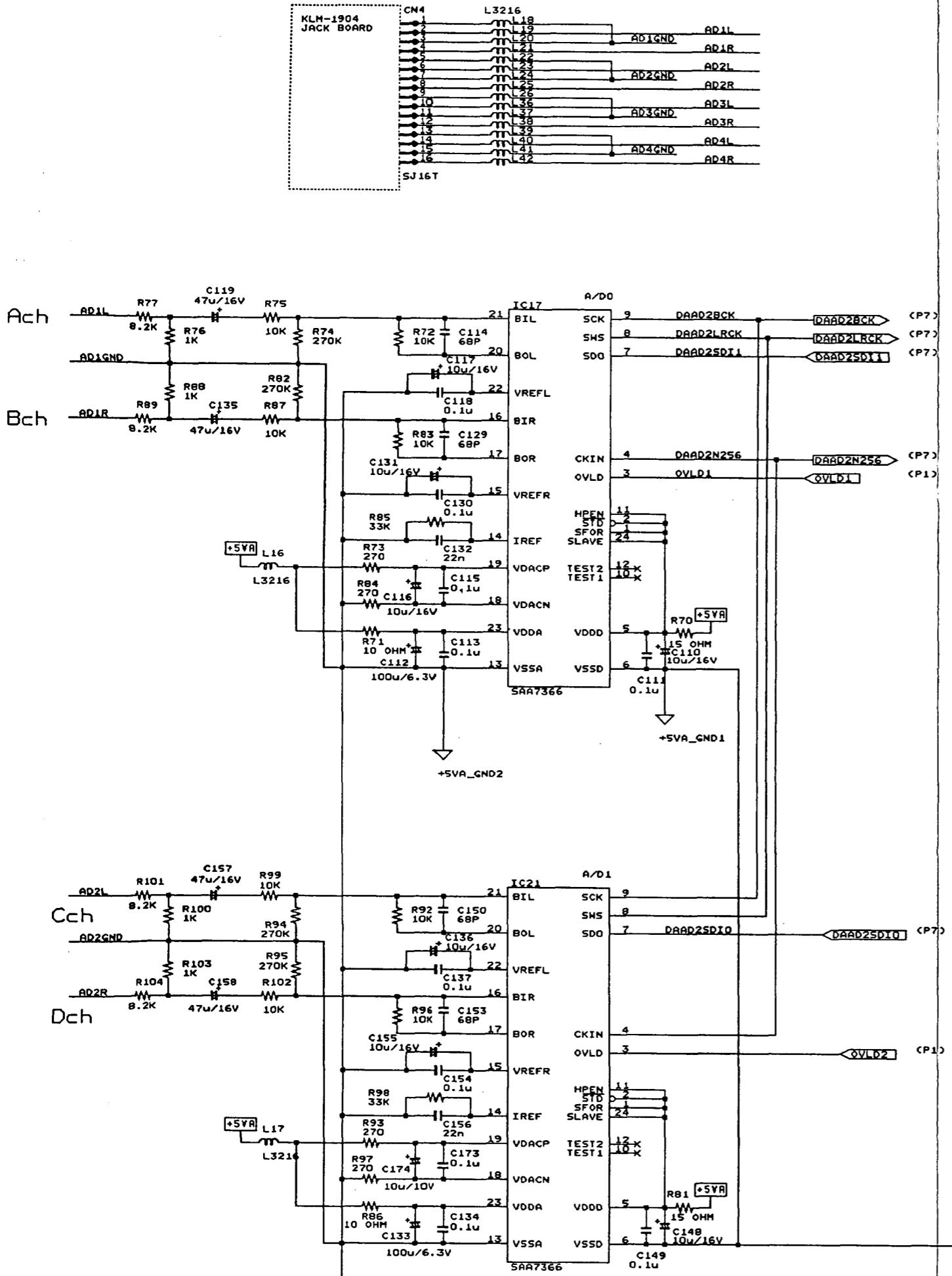
* TEST MODE use user data area and the memory will be initialized.
Before entering the TEST MODE, please save all the data via MIDI.

5. CIRCUIT DIAGRAM

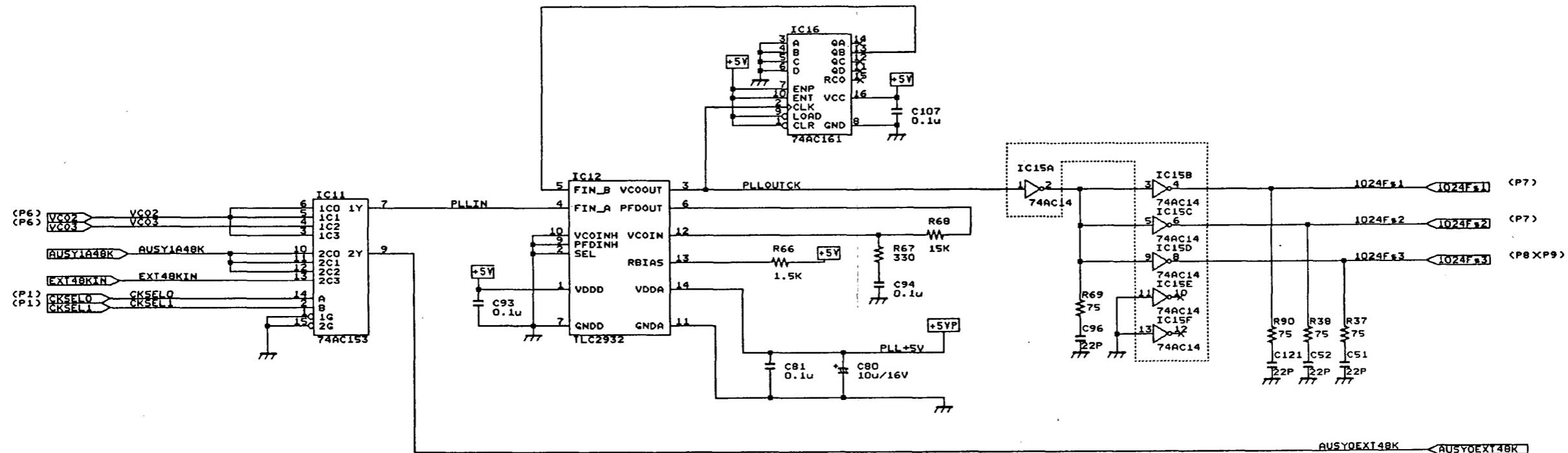


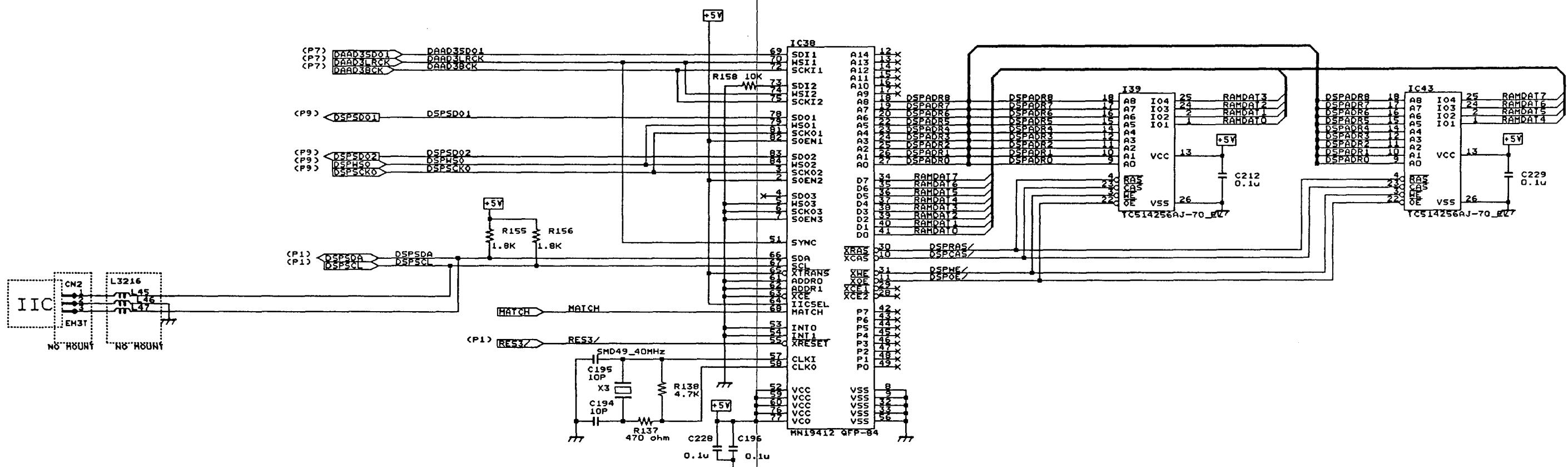
4. SIGNAL FLOW DIAGRAM



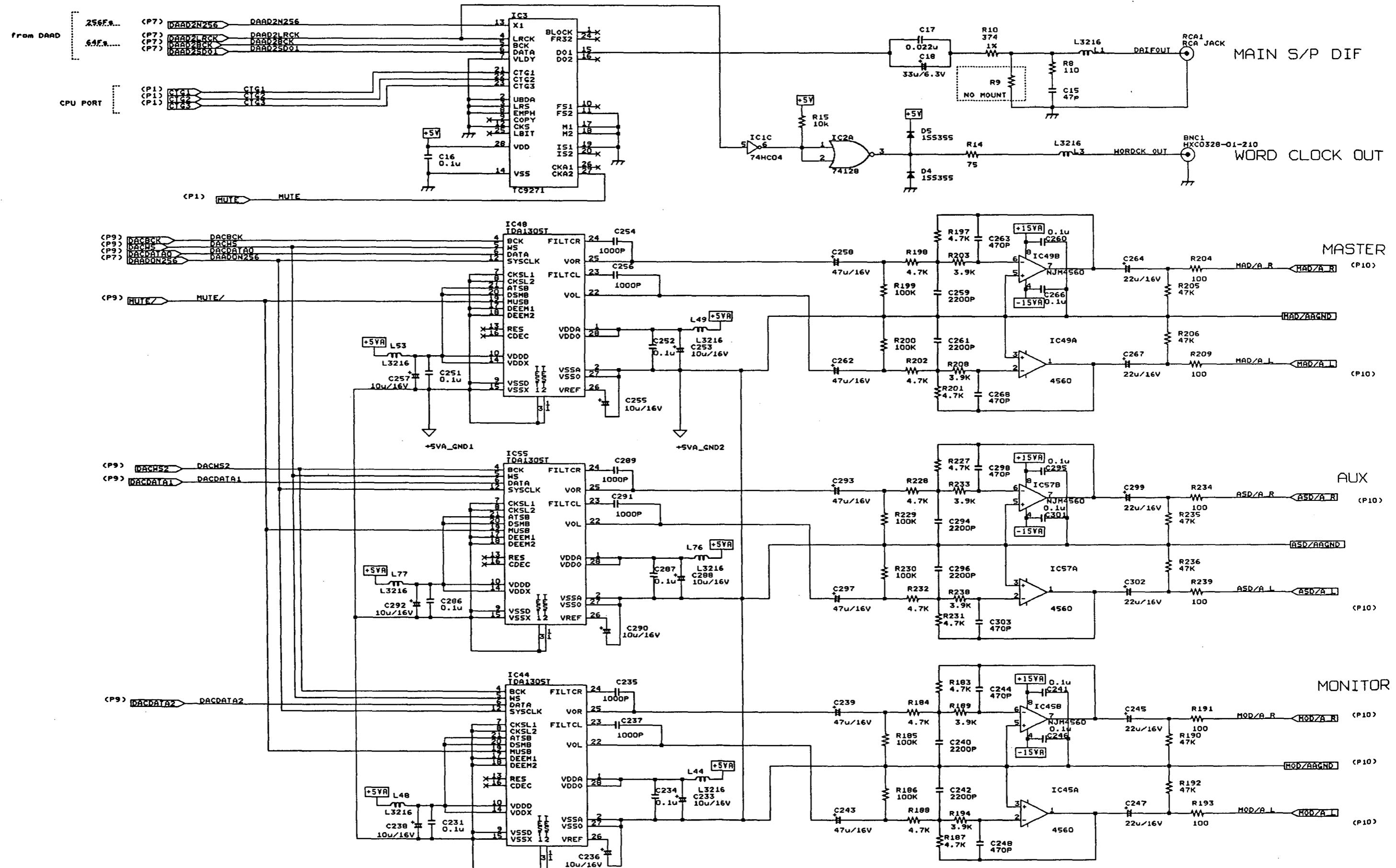


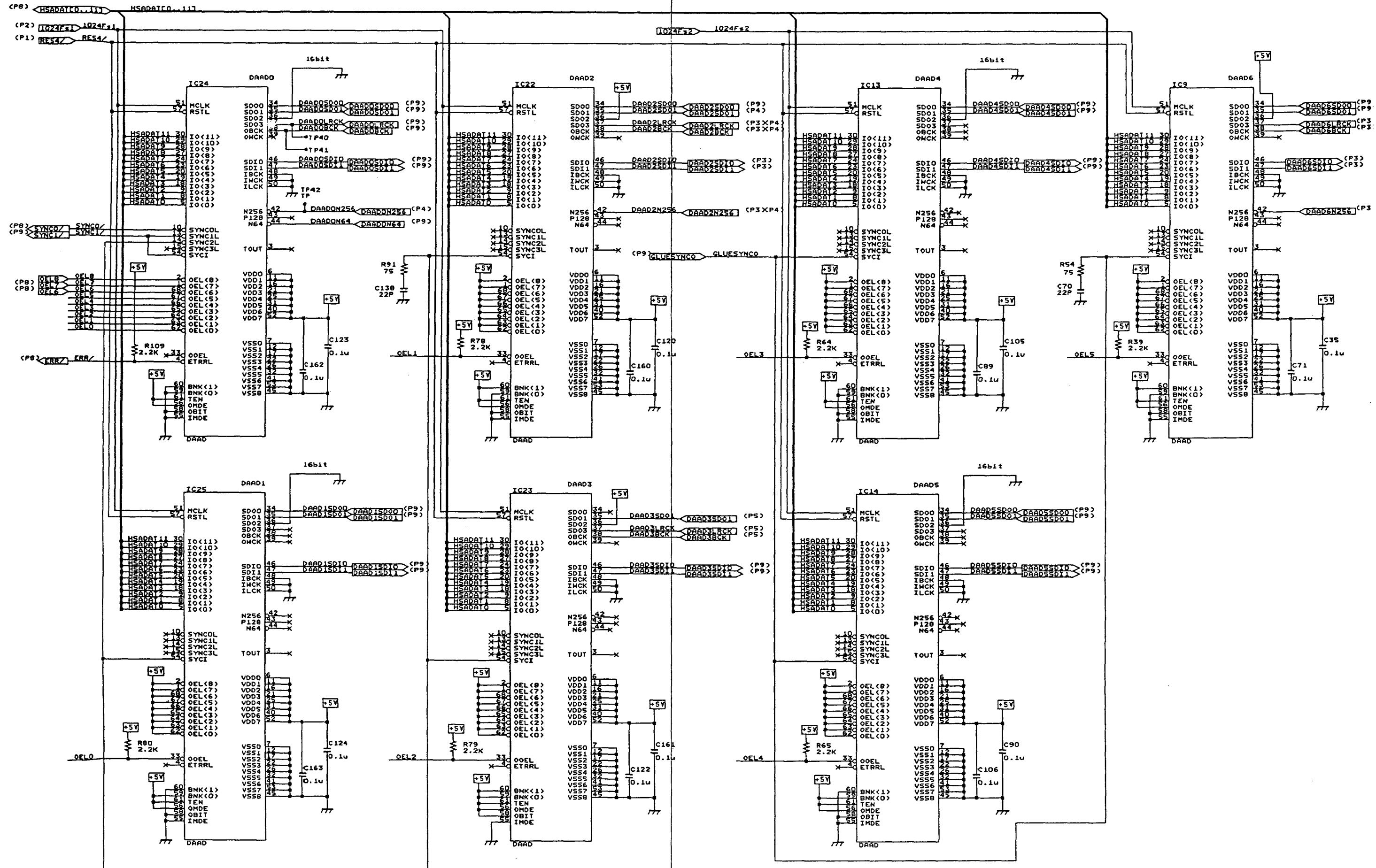
A/D : Slave mode
Format1

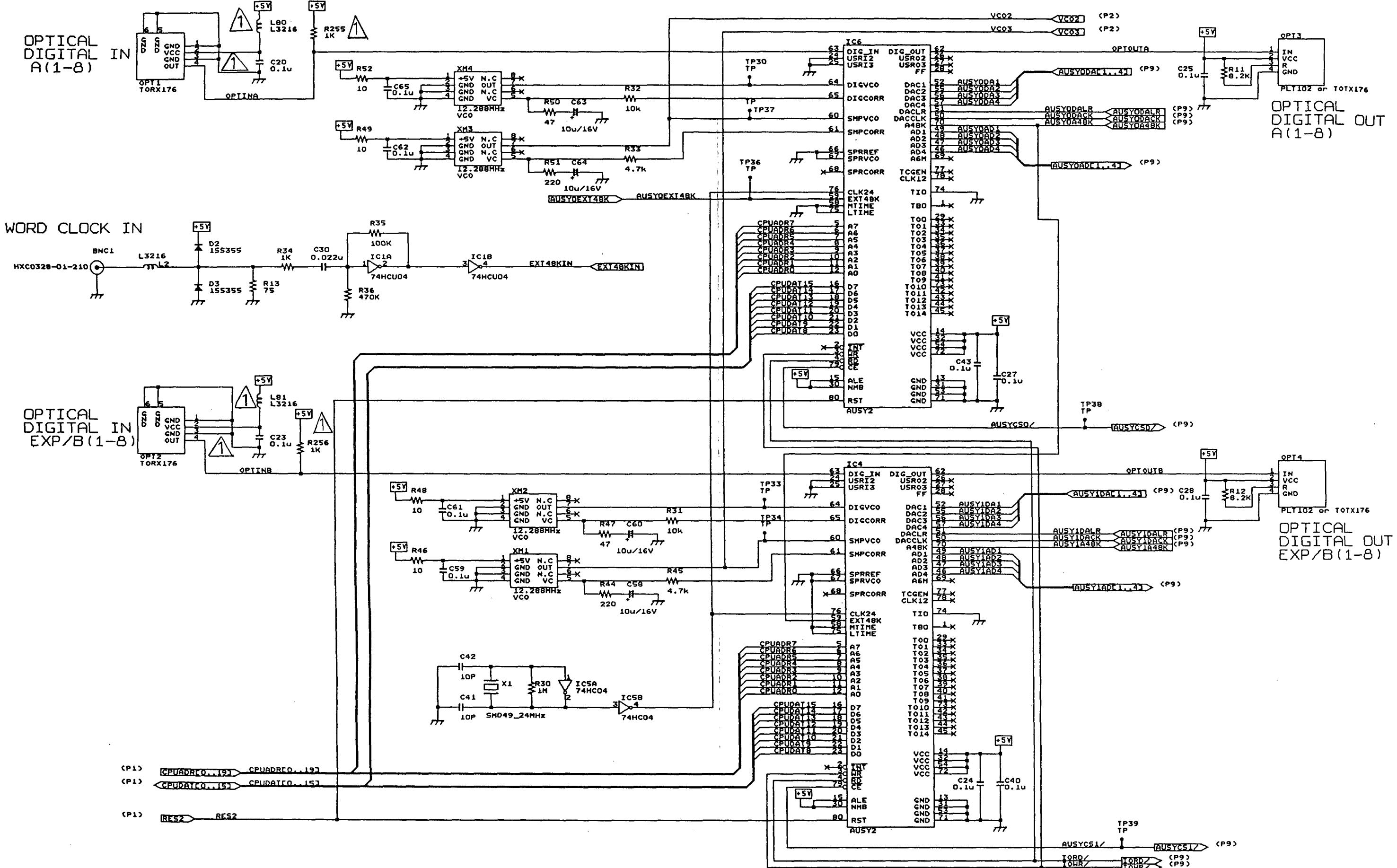


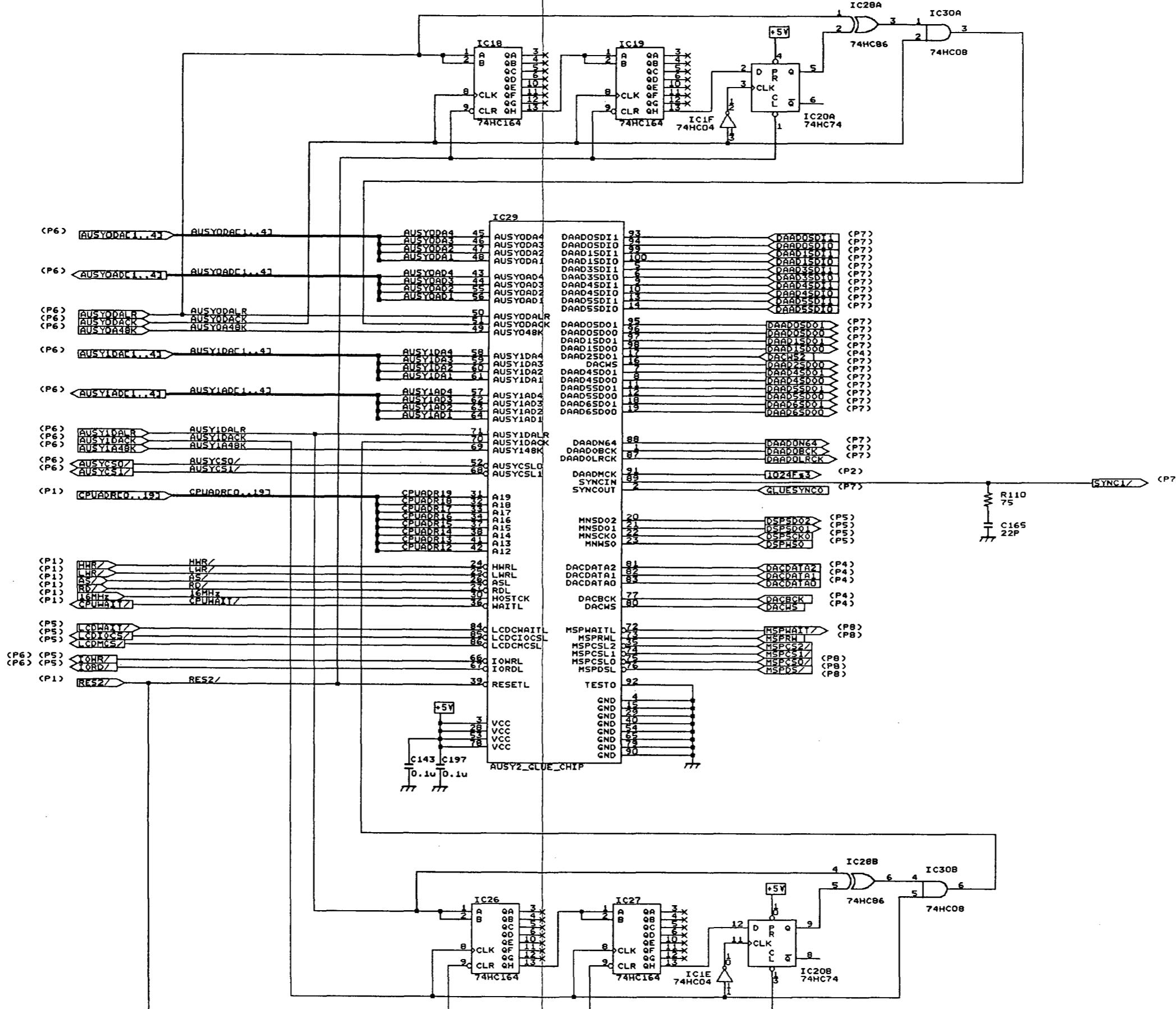


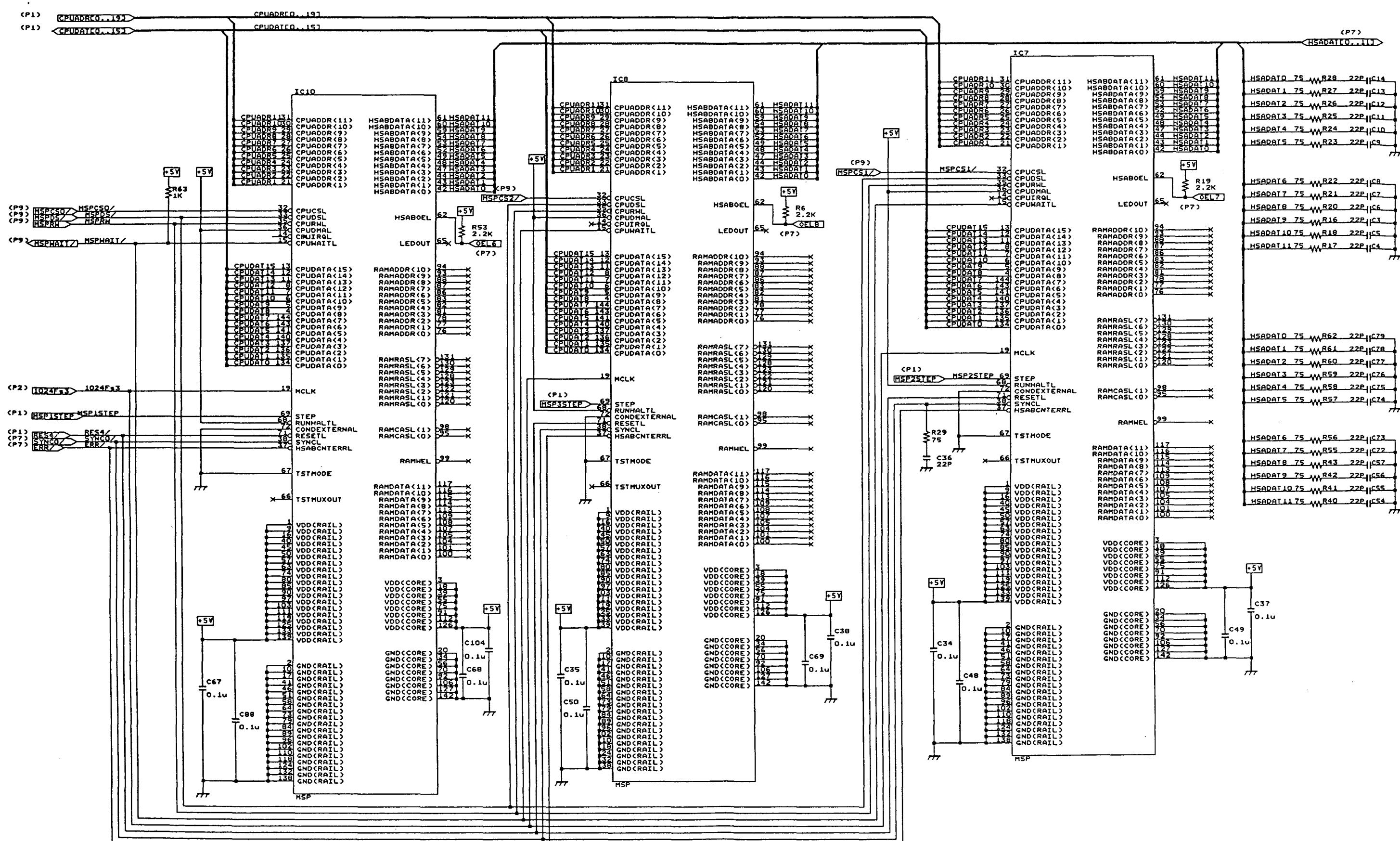
KLM-1901
MAIN BOARD-5 DSP BLOCK

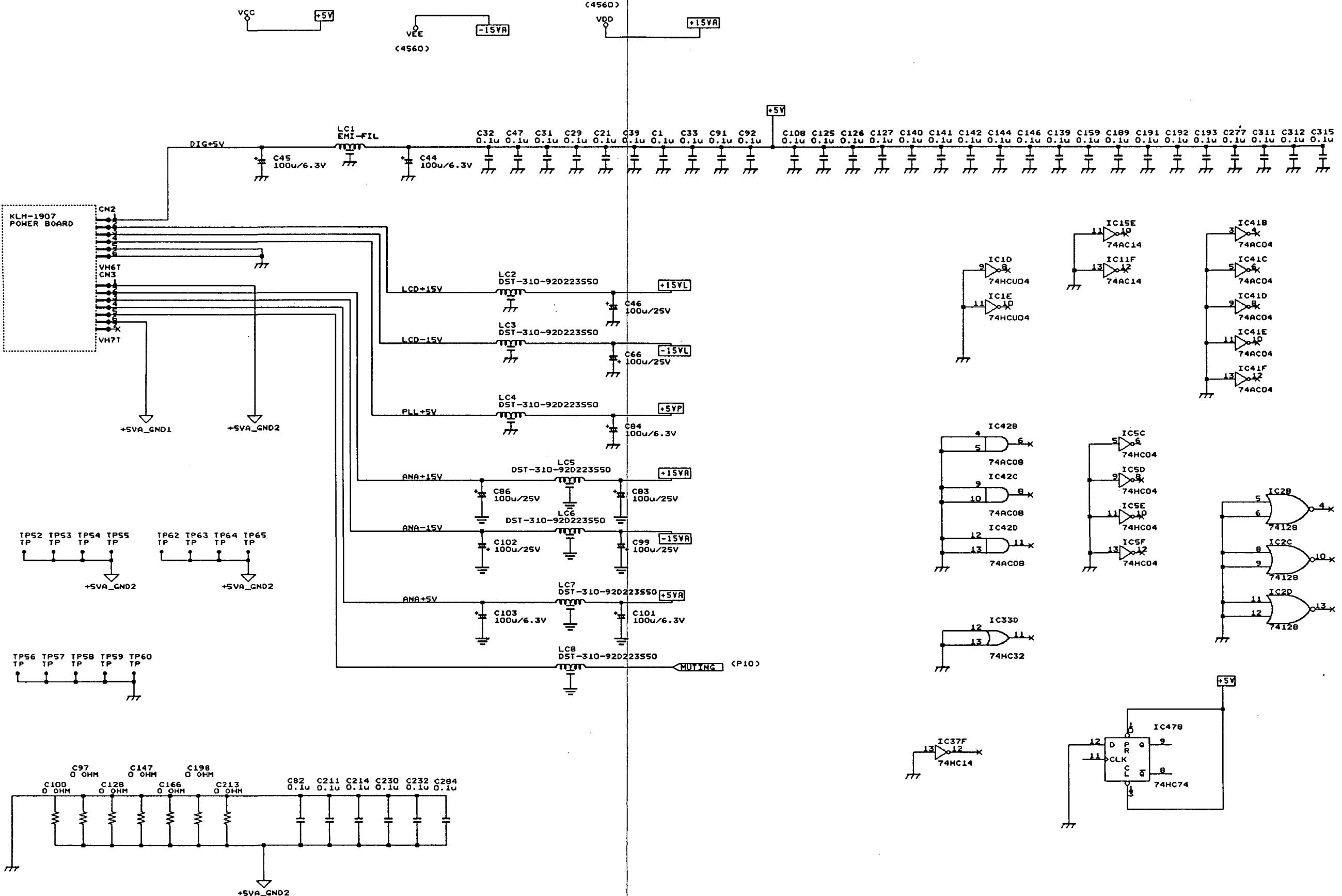




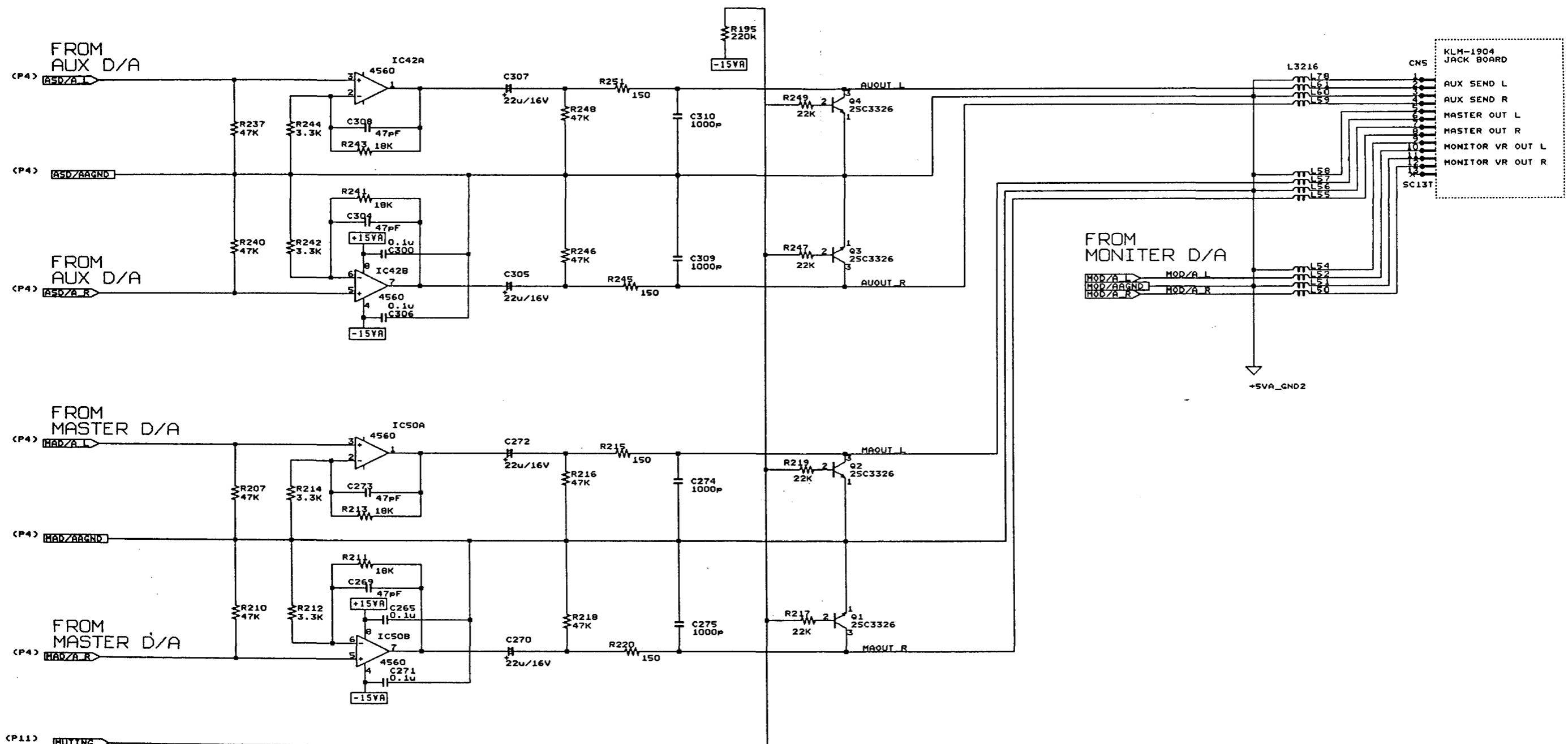




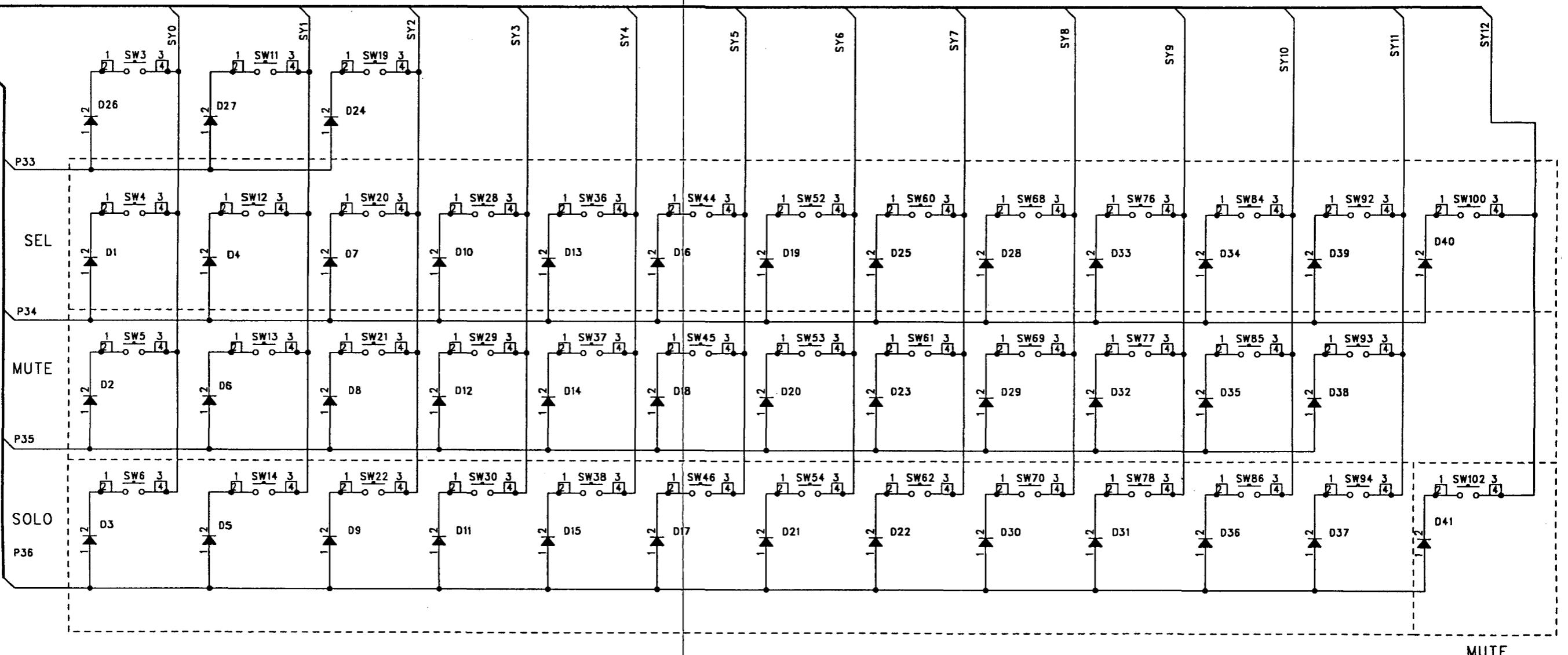




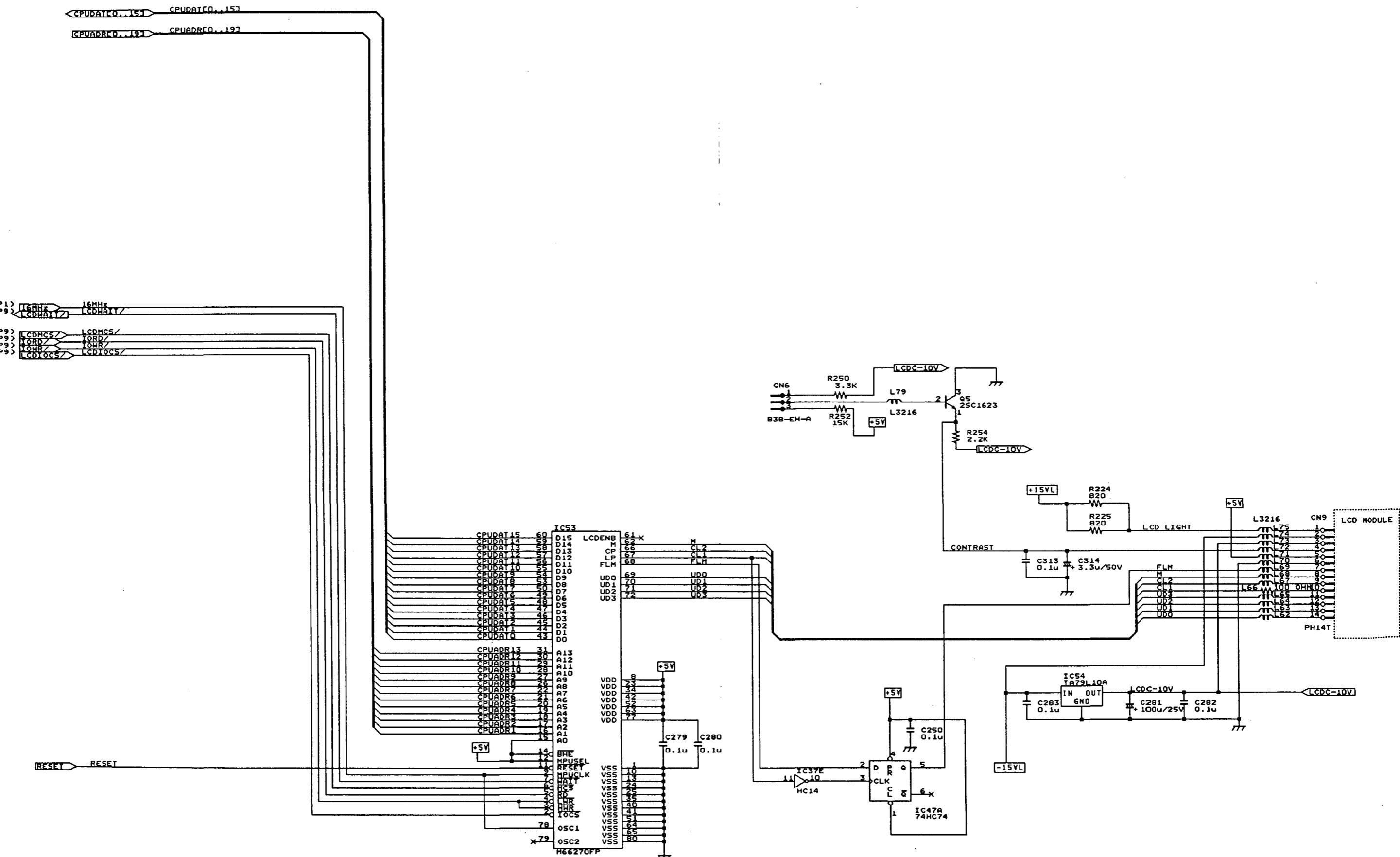
KLM-1901
MAIN BOARD-11 CONN BLOCK



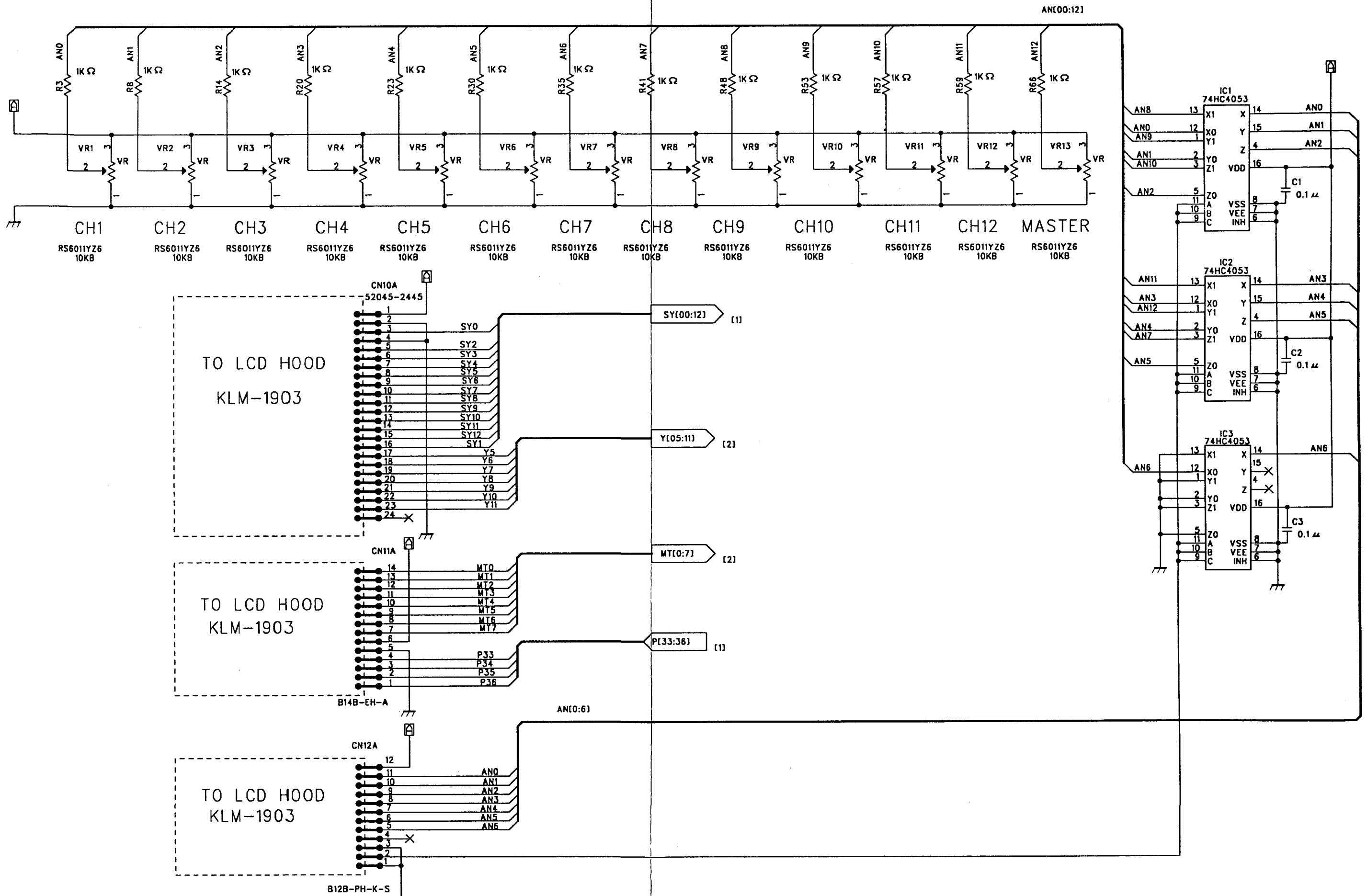
KLM-1901
MAIN BOARD-10 AMP BLOCK



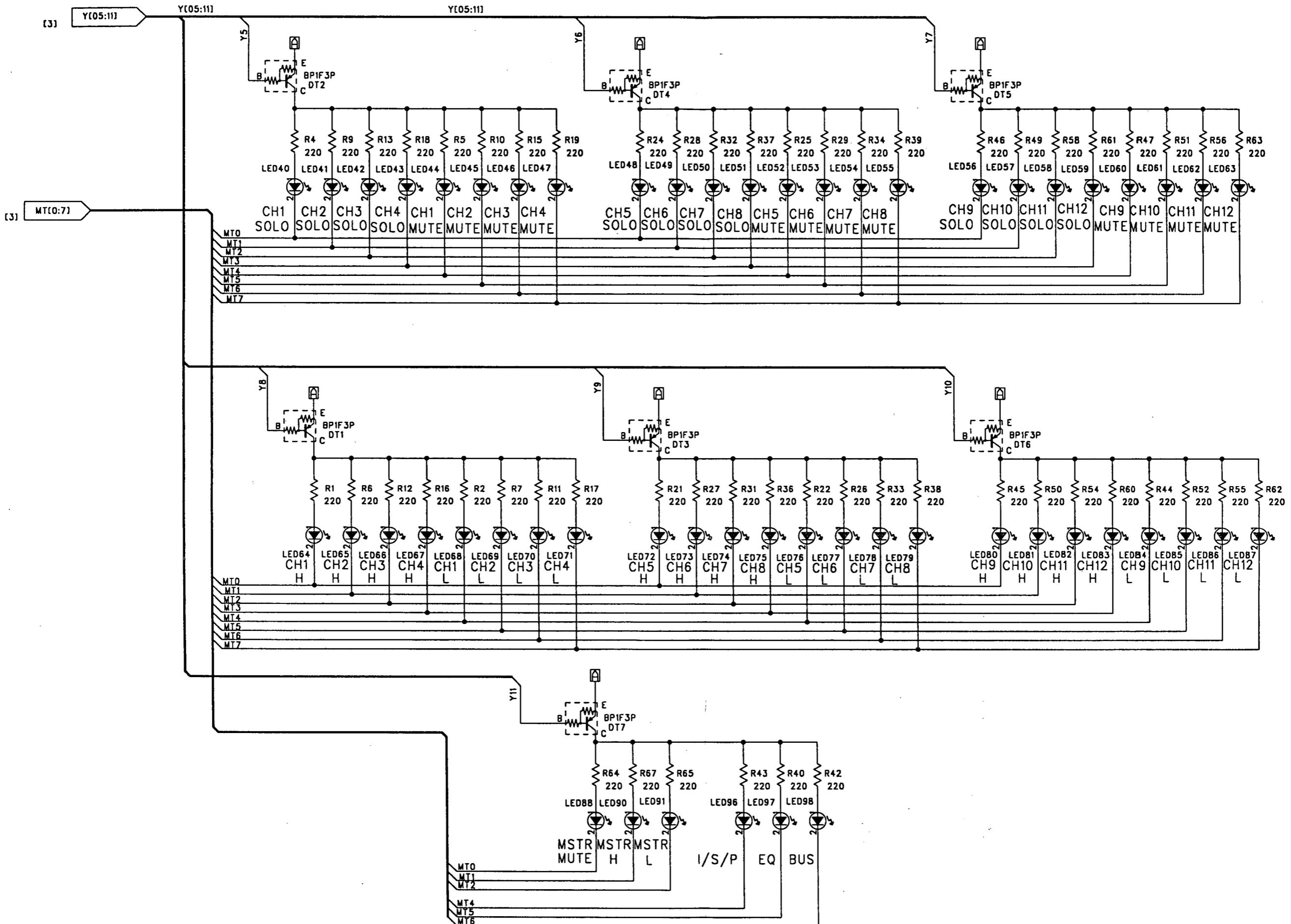
KLM 1902
PANEL BOARD (1/3)



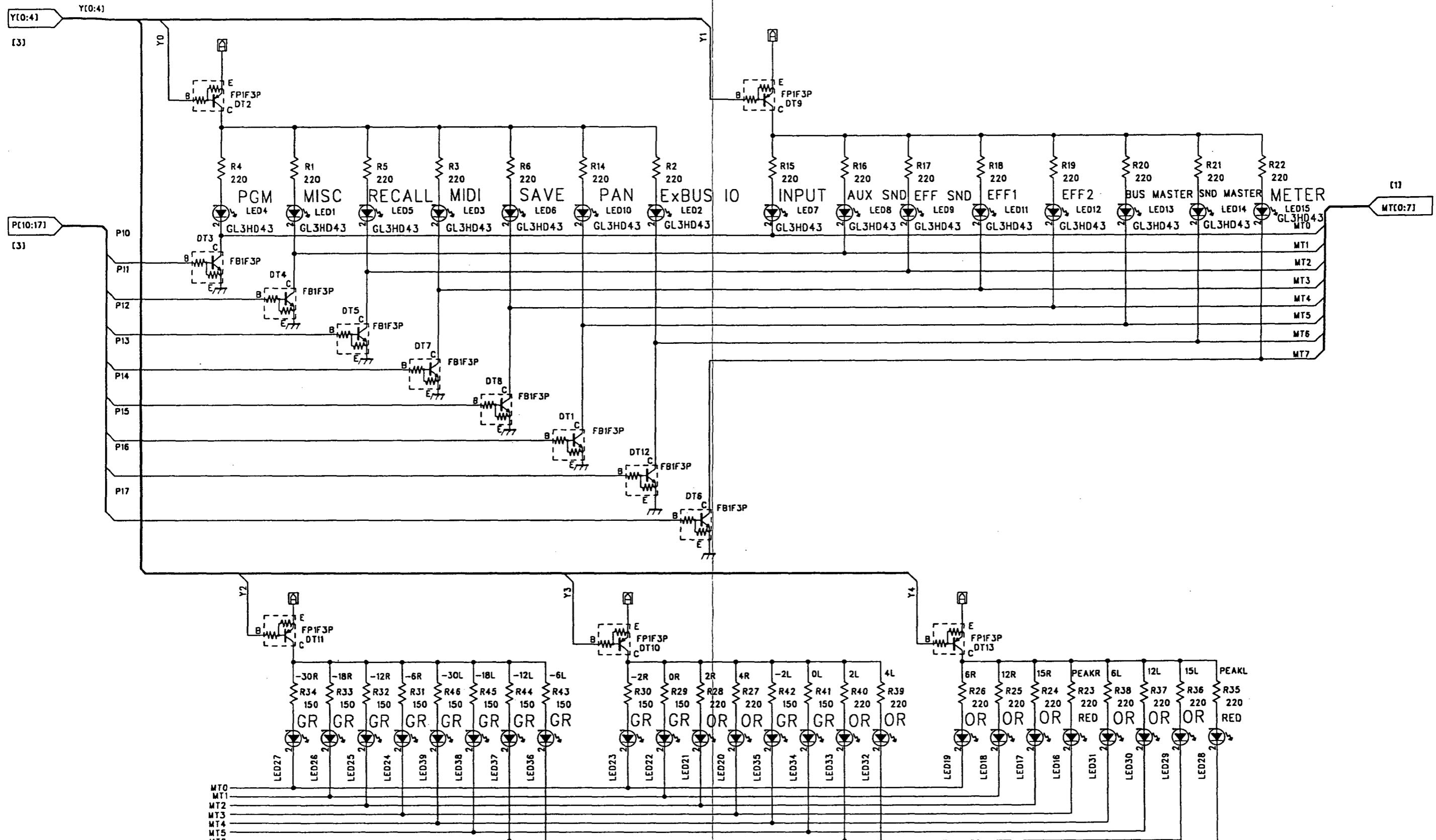
KLM-1901
MAIN BOARD-12 LCDC BLOCK



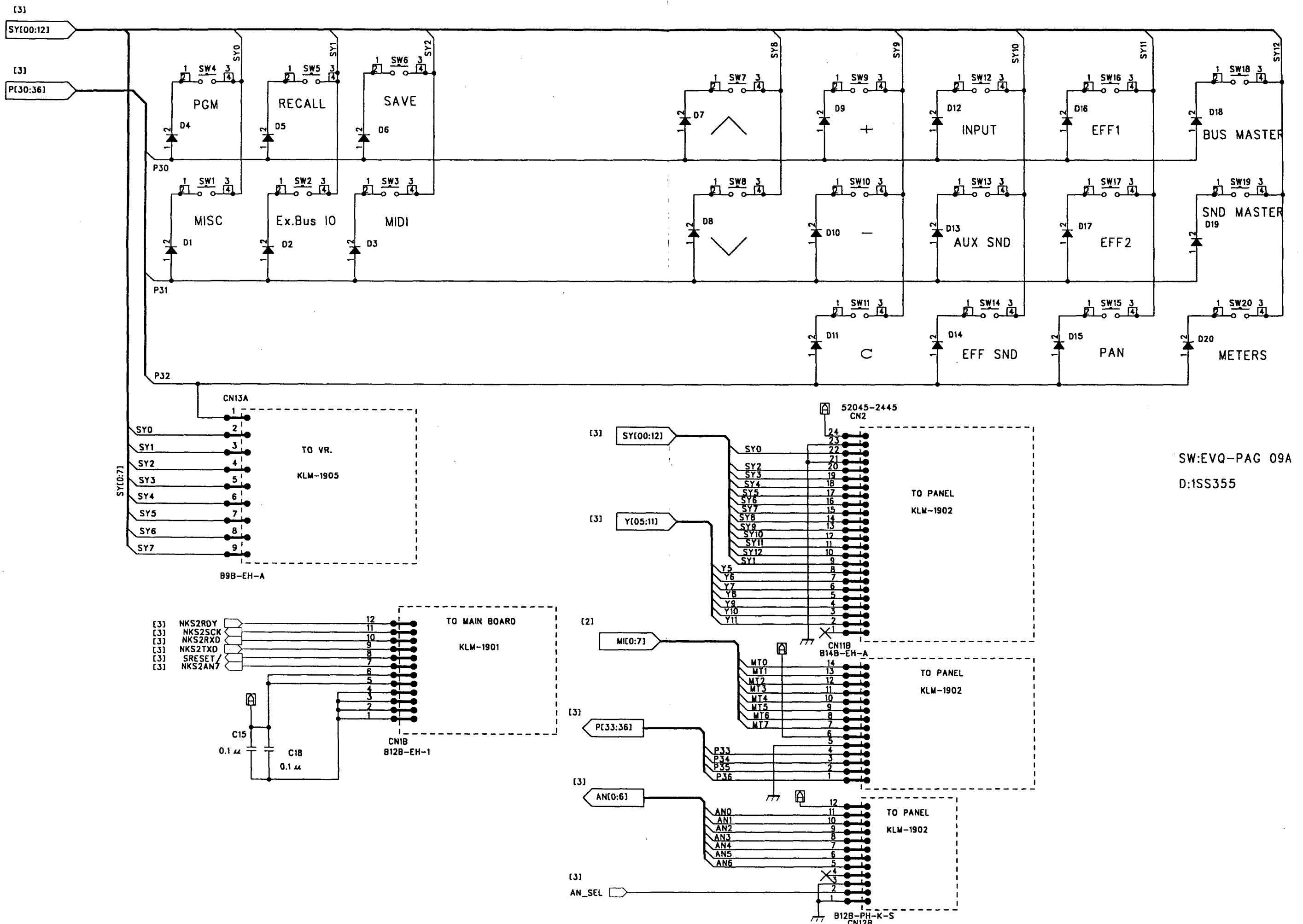
KLM-1902
PANEL BOARD (3/3)



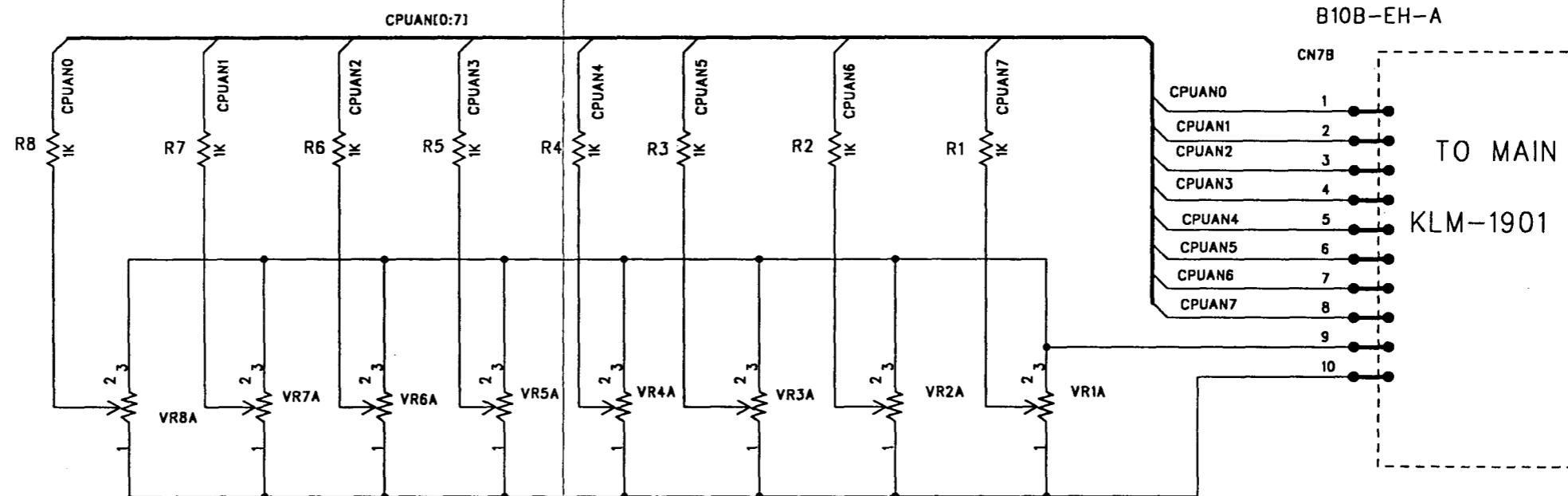
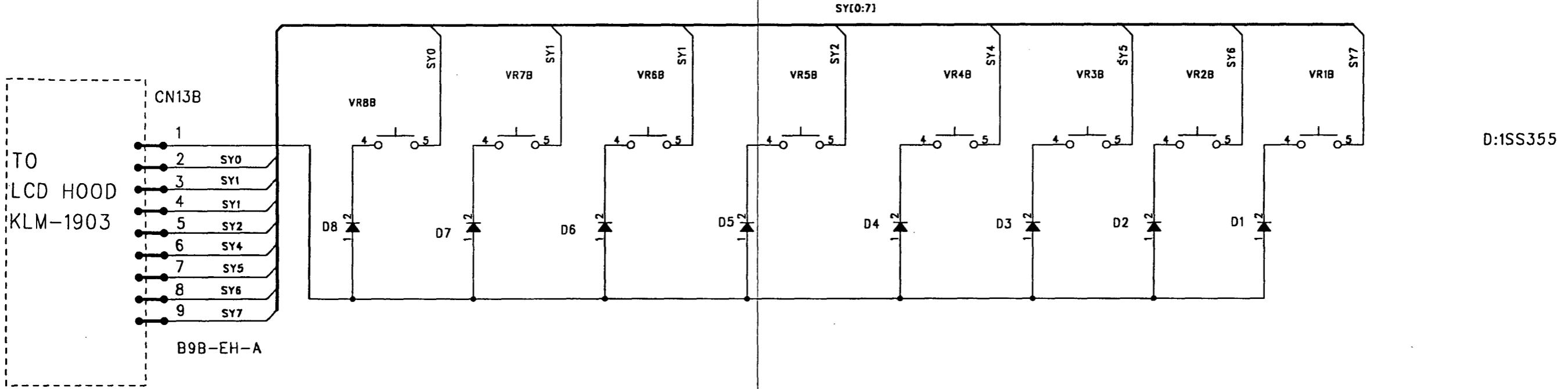
KLM-1902
PANEL BOARD (2/3)



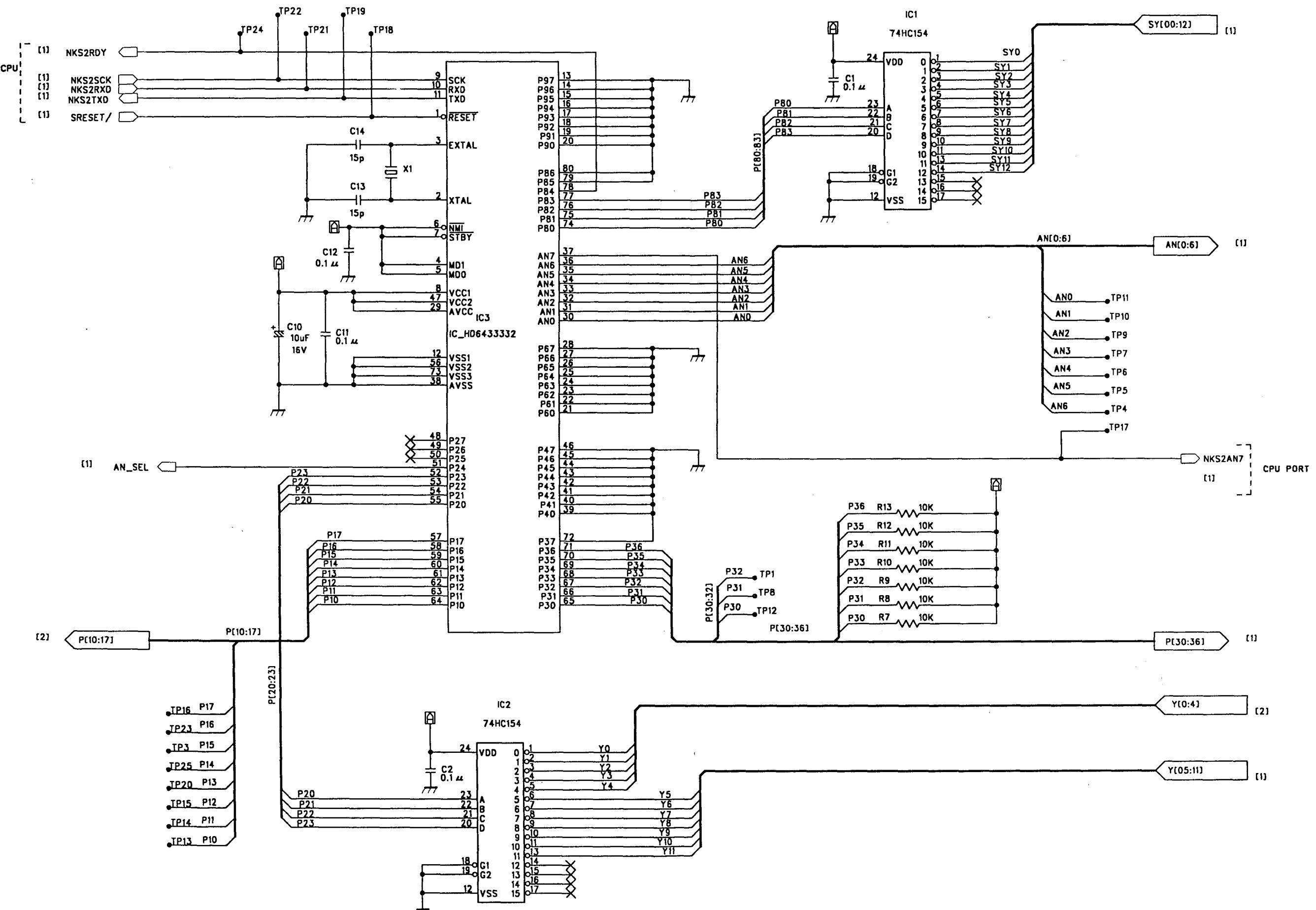
KLM-1903
LCD HOOD BOARD (2/3)



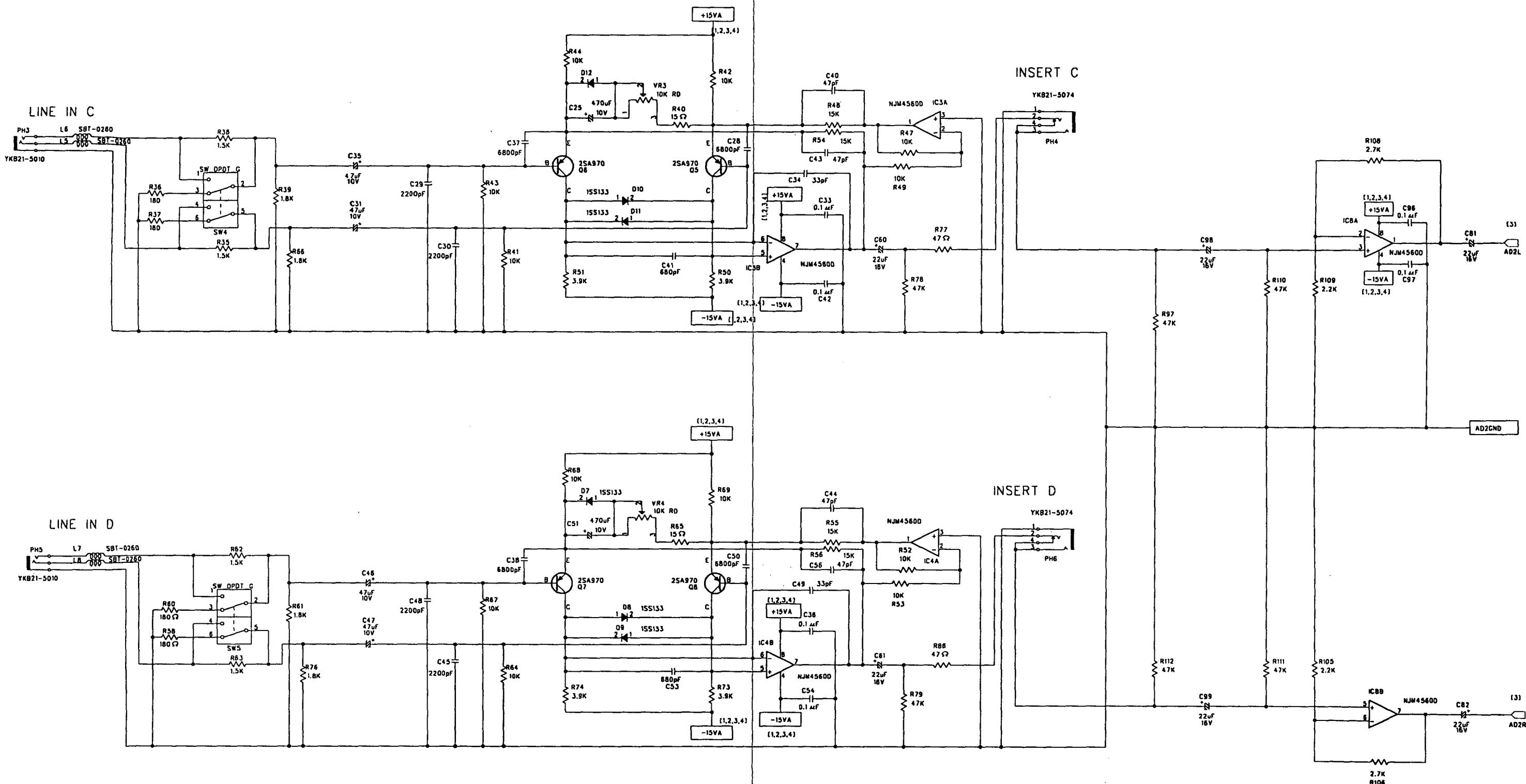
KLM-1903
LCD HOOD BOARD (1/3)



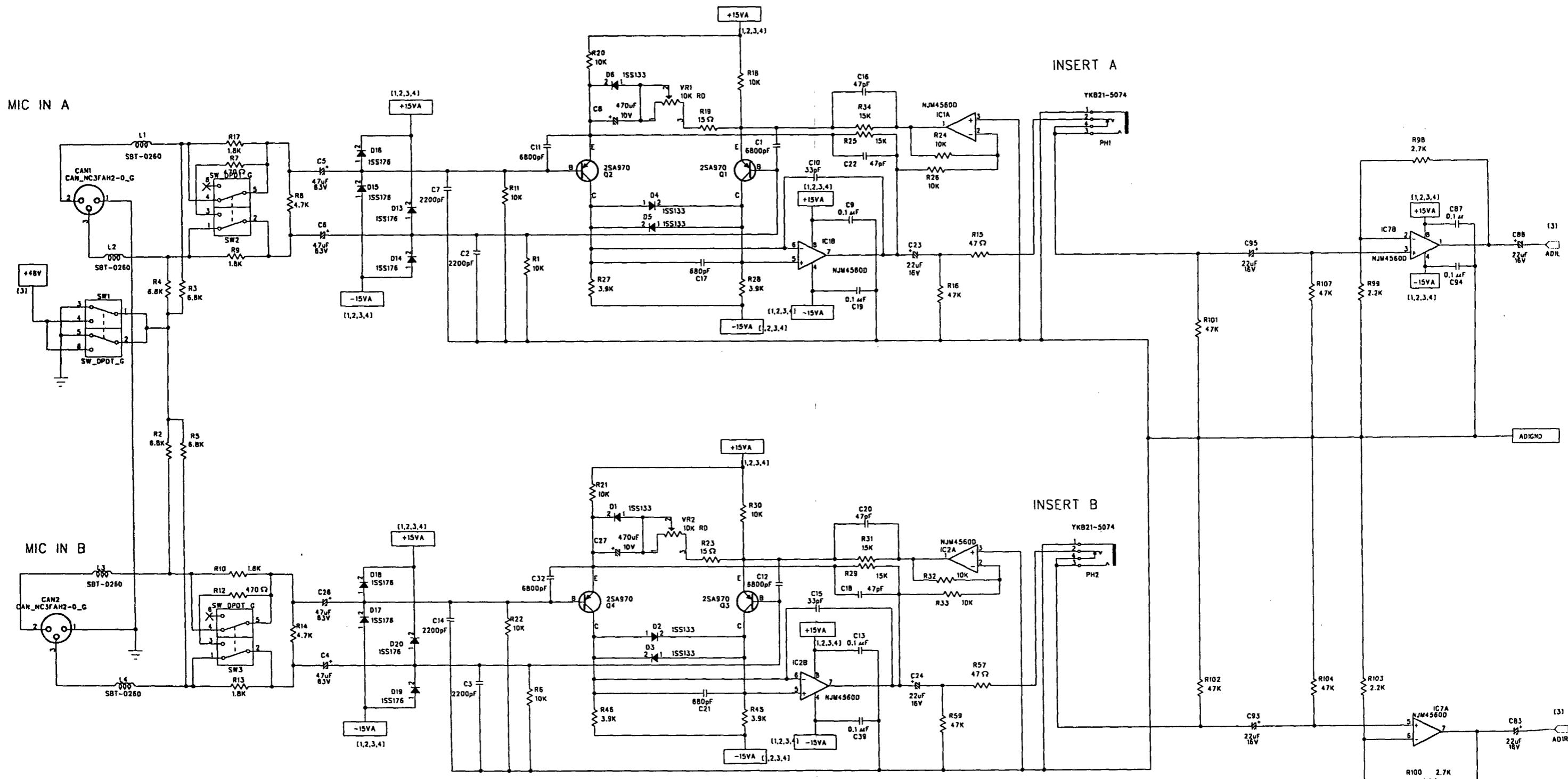
KLM-1905
 VOLUME BOARD



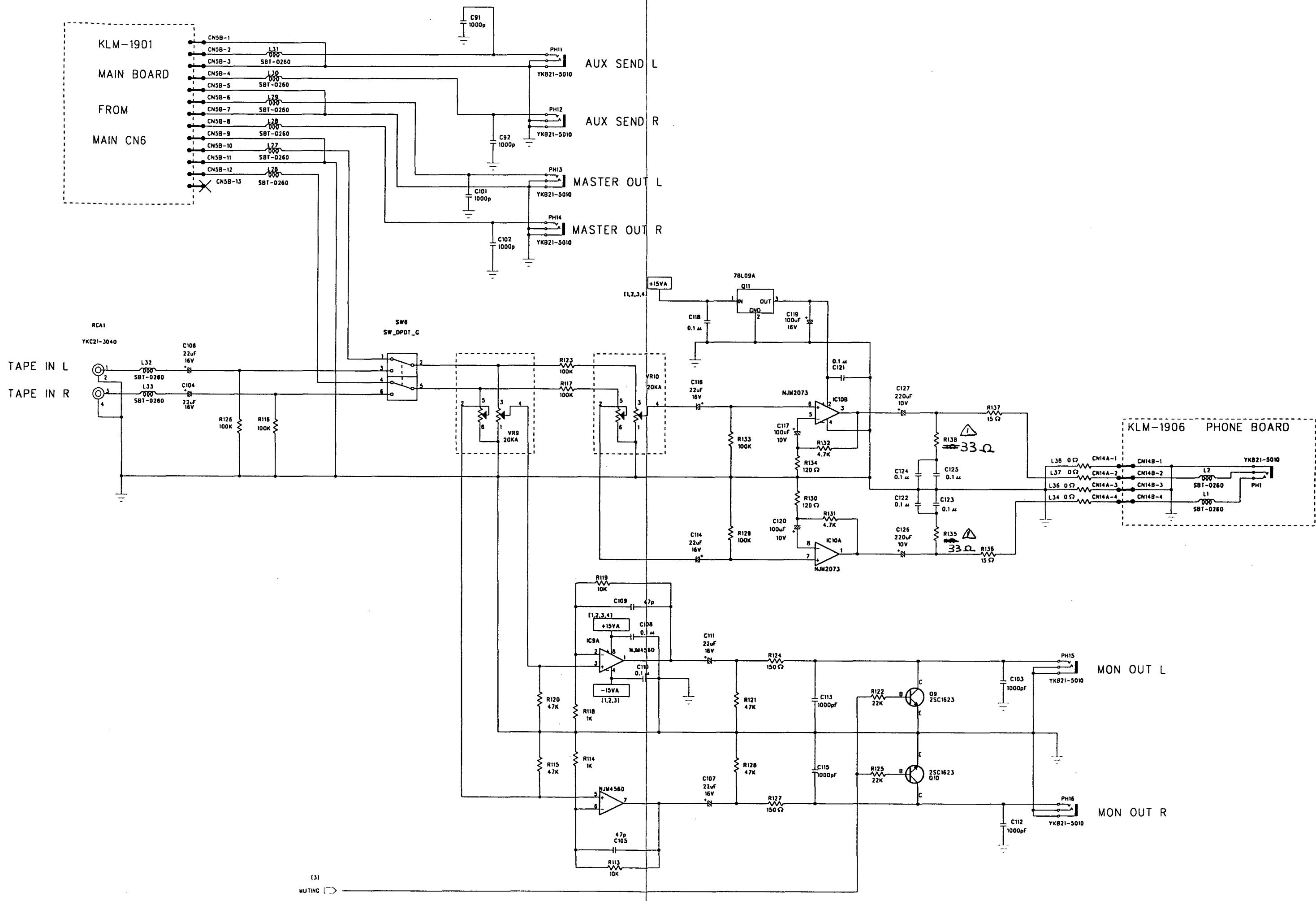
KLM-1903
LCD HOOD BOARD (3/3)



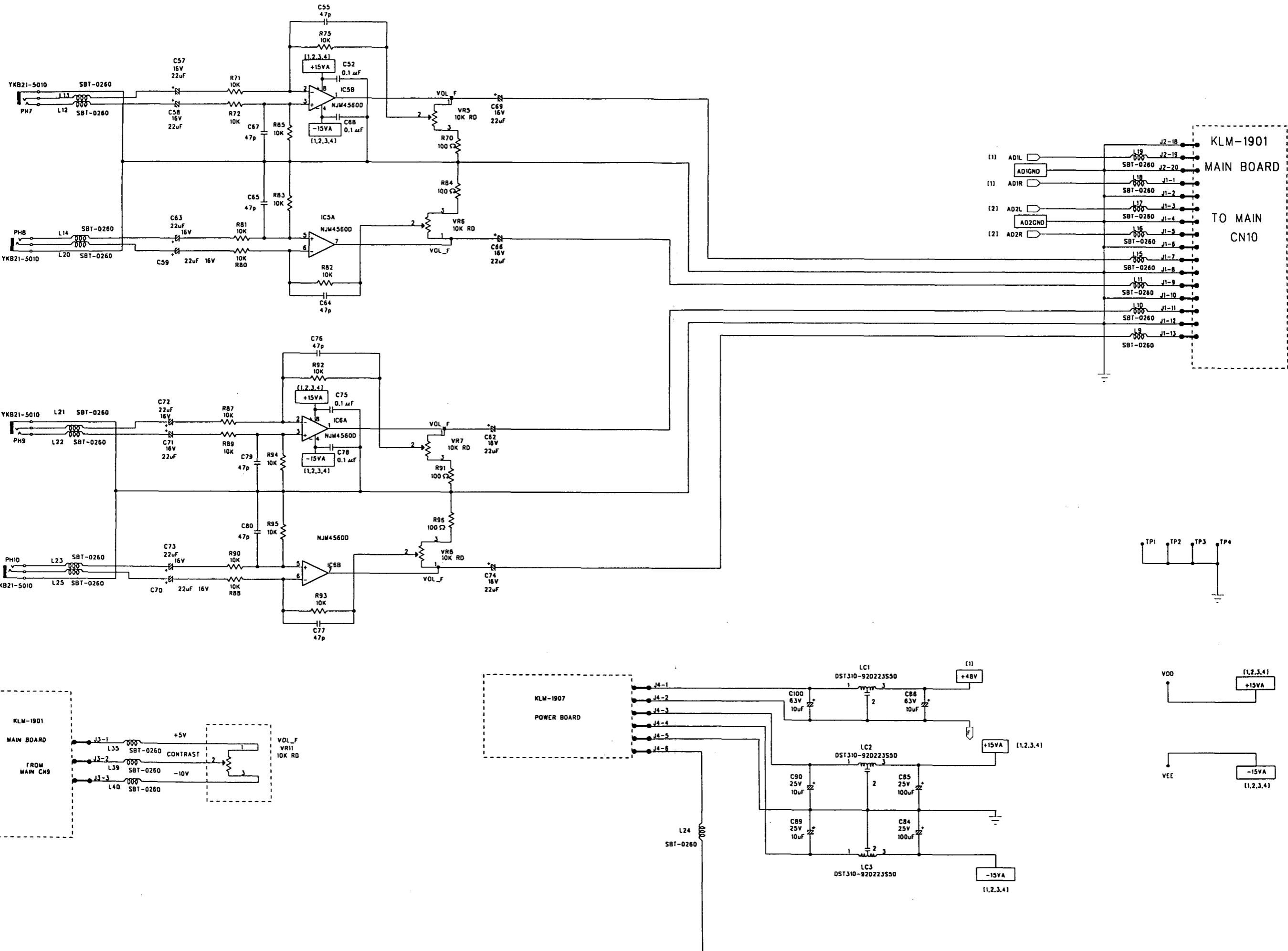
KLM-1904
JACK BOARD (2/4)



KLM-1904
JACK BOARD (1/4)



KLM-1904/1906
JACK BOARD (4/4)



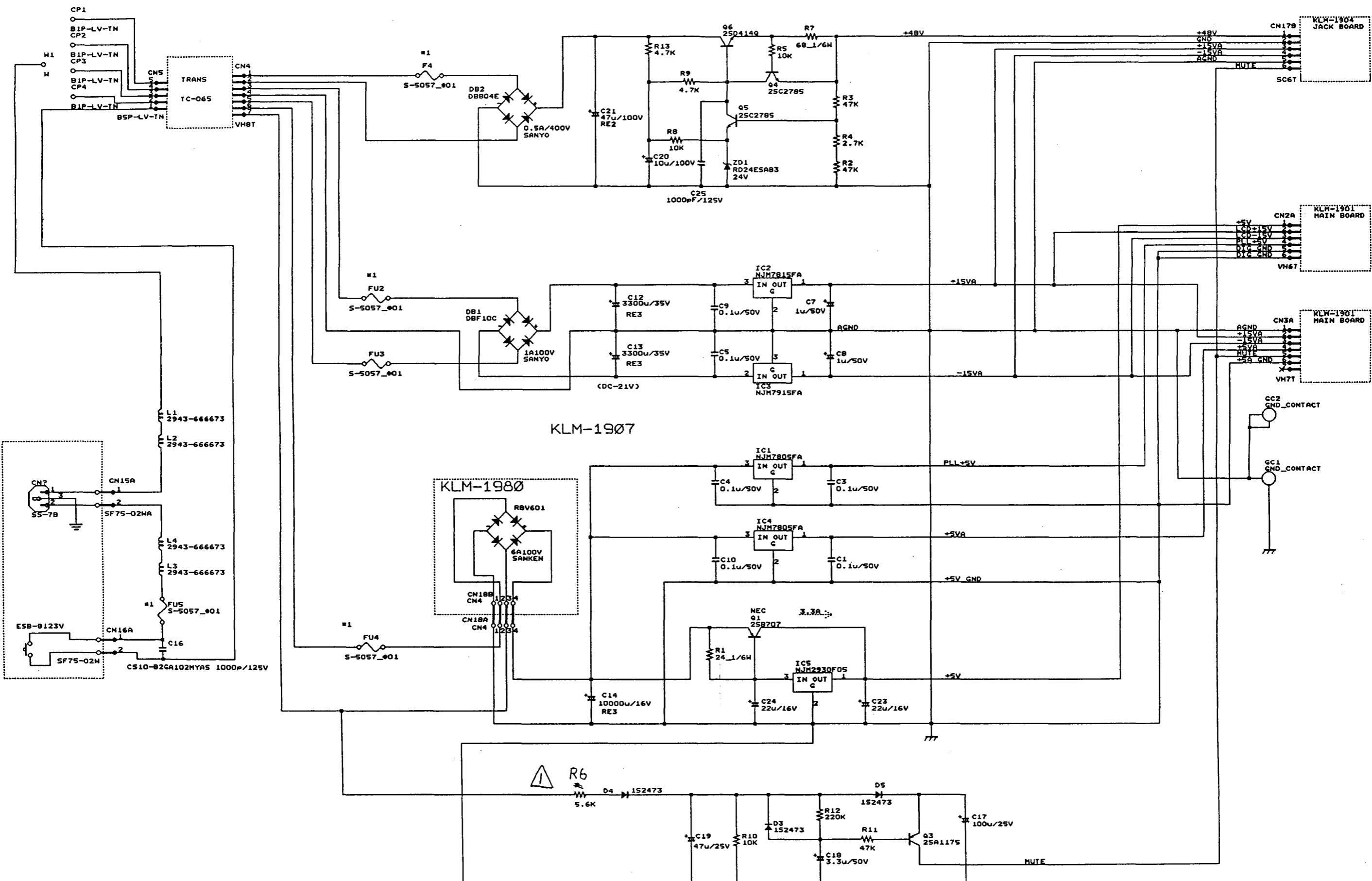
KLM-1904
JACK BOARD (3/4)

PARTS LIST

PART CODE	PART NAME/SPECIFICATION	P.C.BOARD	NOTE	Q'TY	MARK
001190100	PCB ASSY KLM-1901	M.PART	MAIN	1	NEW
001190200	PCB ASSY KLM-1902	M.PART	PANEL	1	NEW
001190300	PCB ASSY KLM-1903/1905	M.PART	LCD/VR	1	NEW
001190400	PCB ASSY KLM-1904/1906	M.PART	JACK/HF	1	NEW
001190700	PCB ASSY KLM-1907	M.PART	POWER	1	NEW
312010700	LED GL3HD43			54	
312013400	LED GL2PR6	1903		15	
312051400	LED GL2HY6	1903		2	
312051500	LED GL2EG6	1903		10	
313003600	LCD LCM24064YGF	M.PART		12	
320002301	IC MN19412A	1901	DSP	1	
320003220	IC TA791010P	1901	REGULATOR	1	
320004207	IC HD74HC154P	1903	NEW		
320004239	IC HD74HC4052P	1902	HC_MOS	2	
320004463	IC HD6433332A04P	1903	HC_MOS	3	
3200044639	IC HD6413002F16	1901	NKS2.5	1	
320009006	IC NIM-4560 D	1901	NEW		
320009046	IC NIM-2073 D	1904	REGULATOR	1	
320009057	IC NIM-7805FA	1907	REGULATOR	2	
320009058	IC NIM-7815FA	1907	REGULATOR	1	
320009059	IC NIM-7915FA	1907	REGULATOR	1	
320009076	IC NIM78L09A	1904	REGULATOR	1	
320009098	IC NIM2930F05	1907	LCD CTL	1	
320011181	IC M66270FP	1901	EP_ROM	1	
320012209	IC MBCG24123-419SPF-G-L	1901	GLUE	1	
320012146	IC TMS27C240-10I	1901	MSP	3	
320022101	IC MM9427-VUY (MSP)	1901	DA/D	7	
320022102	IC MM9378-V4 (DA/D)	1901	DA/D	2	
320044001	IC ALESIS AUSY 2	1901	HC_MOS	2	
320044002	IC ALESIS VCO	1901	HC_MOS	4	
324001006	IC UPD74HC04GS-E2 (SOP)	1901	AC_MOS	1	
324003017	IC TC74AC161F (EL)	1901	AC_MOS	1	
324003020	IC TC9271F(ELP)	1901	DIGITAL-IF	1	
324004004	IC HD74HC32FPER	1901	HC_MOS	2	
324004011	IC HD74HC04FPER	1901	HC_MOS	1	
324004012	IC HD74HC08FPER	1901	HC_MOS	2	
324004016	IC HD74HC14FPER	1901	HC_MOS	1	
324004024	IC HD74HC74FPER	1901	HC_MOS	1	
324004031	IC HD74HC86FPER	1901	AC_MOS	4	
324004045	IC HD74HC164FPER	1901	AC_MOS	1	
324004185	IC HD74AC04FPER	1901	AC_MOS	1	
324004190	IC HD74AC08FPER	1901	AC_MOS	1	
324004191	IC HD74AC14FPER	1901	AC_MOS	1	
324004207	IC HD74AC152FPER	1901	AC_MOS	1	
324004209	IC NJM311M-TE3 (SOP)	1901	COMPATOR	1	
324009026	IC NJM4560M-T1	1901	OP_AMP	5	
324011013	IC M62021FP-800C	1901	RESET	1	
324011022	IC M5MS1008AEP-70L-TT4	1901	S_RAM	2	
324013016	IC LH64256BK-70	1901	D_RAM	2	
324021003	IC TLC2932IPVFT-EL	1901	PLL	1	

PART CODE	PART NAME/SPECIFICATION	P.C.BOARD	NOTE	Q'TY	MARK
464011301	FUSE 250V 200MA GGS200	M.PART	100IP	1	
464061101	FUSE 250V T125MA 19195-125MA	M.PART	240AU	1	
		M.PART	230GE	1	
		M.PART	230FR	1	
		M.PART	230WG	1	
		M.PART	230SC	1	
		M.PART	230UK	1	
		M.PART	240AU	2	
		M.PART	230GE	2	
		M.PART	230FR	2	
		M.PART	230WG	2	
		M.PART	230SC	2	
		M.PART	230UK	2	
464062001	FUSE 250V T1.0A	M.PART	230WG	2	
		M.PART	230SC	2	
		M.PART	230UK	2	
		M.PART	240AU	1	
		M.PART	230GE	1	
		M.PART	230FR	1	
		M.PART	230WG	1	
		M.PART	230SC	1	
		M.PART	230UK	1	
464062101	FUSE 250V T1.25A	M.PART	230WG	1	
		M.PART	230SC	2	
		M.PART	230FR	1	
		M.PART	230WG	1	
		M.PART	230SC	1	
		M.PART	230UK	1	
		M.PART	240AU	1	
		M.PART	230GE	1	
		M.PART	230FR	1	
		M.PART	230WG	1	
		M.PART	230SC	1	
		M.PART	230UK	1	
464062101	FUSE 250V T1.0A	M.PART	230WG	2	
		M.PART	230SC	2	
		M.PART	230FR	2	
		M.PART	230WG	2	
		M.PART	230SC	1	
		M.PART	230UK	1	
		M.PART	240AU	1	
		M.PART	230GE	1	
		M.PART	230FR	1	
		M.PART	230WG	1	
		M.PART	230SC	1	
		M.PART	230UK	1	
474024700	CONNECTOR NC3PAH2-0	1903	1		
474024800	BNC CONNECTOR P2339	1904	2		
474025200	CONNECTOR SF75-02WS	1901	1		
480010200	DIN SOCKET YKF51-5046	1907	1		
500022500	CASE LEG FF-004	M.PART	4		
520001700	LITHIUM BATTERY CR2032VXPX	M.PART		1	
525000100	DATA LINE FILTER ESD-R-25D-B	M.PART		1	
540020200	INLET SOCKET SS-7B	M.PART		1	
545050690	FLAT CABLE TFL-125K-24-140	M.PART		1	
560007600	X-470 L-TYPE HEAT SINK C41092	M.PART		1	
600005100	AC CORD KP-610 GTBS-3 KS-31AY	M.PART	117US	1	
600005300	AC CORD DC-480-101	M.PART	100JP	1	
600005400	AC CORD EC-652-E03	M.PART	230WG	1	
600005500	AC CORD UC-948-J01	M.PART	230SC	1	

PART CODE	PART NAME/SPECIFICATION	P.C.BOARD	NOTE	Q'TY	MARK
4640005700	AC CORD UC-953-J01				
		M.PART	117CN	1	
		M.PART	117US	1	
		M.PART	240AU	1	
620024600	X-952 POWER SW KNOB E40304-2				
		M.PART	100IP	1	
620030400	SLIDER P779-F0 WHITE				
		M.PART	117US	1	
620030700	X-470 ROTARY VR KNOB E48026-2				
		M.PART	100IP	1	
630014900	X-952 SW GUIDE KOC-B40305				
		M.PART	117EX	1	
630024400	X-470 LCD WINDOW KOC-E40440				
		M.PART	117US	1	
630027400	X-470 ISOLATION COVER E40456				
		M.PART	117CN	1	
640084600	GROUNDING CONTACT KOC-C40655				
		M.PART	117CN	2	
		M.PART	117EX	2	
641026901	X-122 L TYPE ANGLE (SMALL)				
		M.PART	100IP	4	
641041330	X-470 HEAT SINK (L) KOC-C41071				
		M.PART	117US	1	
641041338	X-470 UPPER CASE KOC-C20315				
		M.PART	117CN	1	
641041339	X-470 LOWER CASE KOC-C2031				



KLM-1907/1980
POWER BOARD / DIODE BRIDGE BOARD

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

ADVARSEL!

Lithiumbatteri — Eksplorationsfare ved fejlagtig handtering.
Udskiftning må kun ske med batteri af samme
fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

ADVERSEL

Eksplorationsfare ved feilaktig skifte av batteri.
Brukt batterier kasseres i henhold til fabrikantens
instruksjoner.

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som
rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type
recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's
instructions.



KORG

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