

**U**

*Pa80*

**R**

*Professional  
Arranger*

**O**



**K**

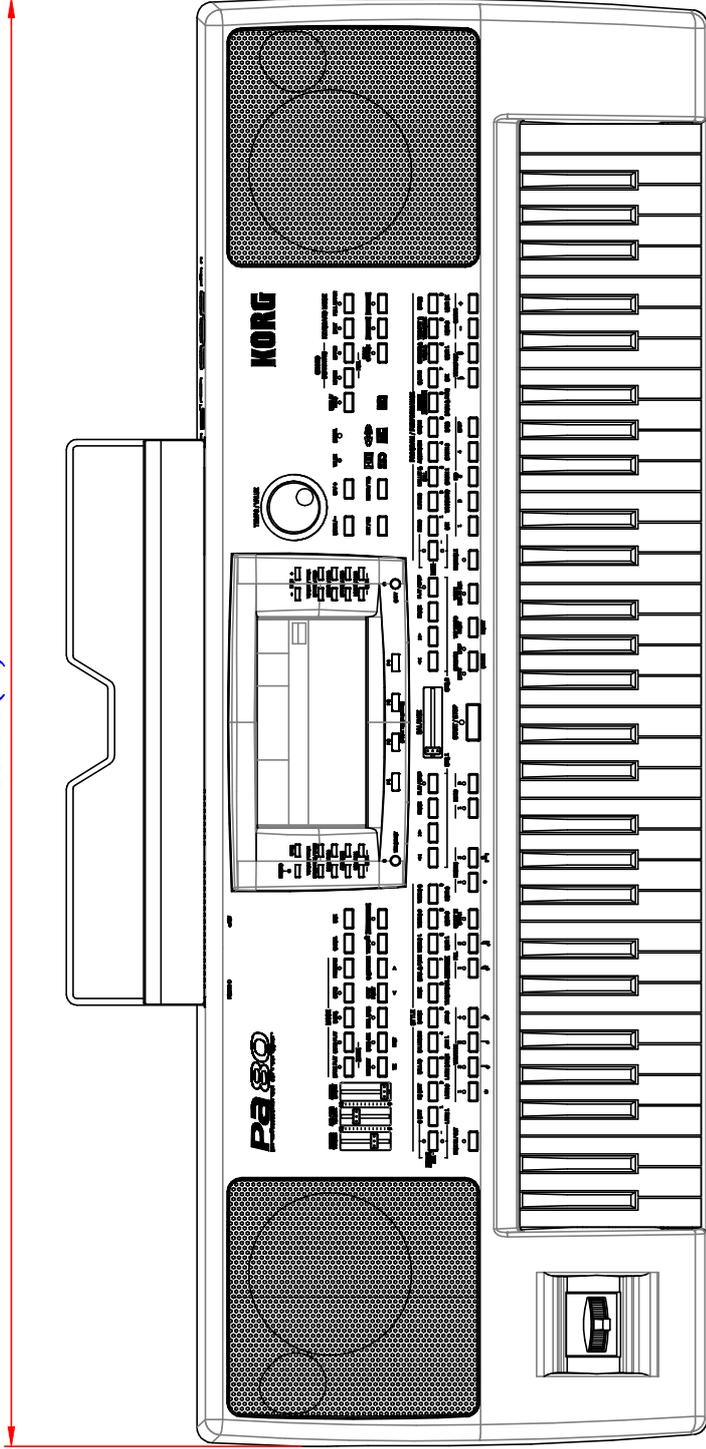
*Service Manual*

# *Pa80 Specifications*

<b>Keyboard</b>	61 notes with velocity and after touch
<b>System</b>	OPOS – Objective Portable Operating System: Multitasking System, load while playing feature. Upgradable Operating System. SSD Solid State Disk.
<b>Tone generator</b>	HI synthesis (Hyper integrated synthesis system) – 62 voices, 62 oscillators – Filters with resonance.
<b>Waveform Memory</b>	32 Mbyte PCM ROM (Stereo Piano Sound).
<b>Effects</b>	4 stereo digital Multi-Effect systems (90 effects each).
<b>Programs</b>	More than 660 programs (including Stereo Piano and GM level 2 programs ). 32 drum kits. 128 user programs + 32 user drum kits – Digital Organ drawbars.
<b>Styles</b>	More than 200 Styles in Solid State Disk. All reconfigurable – 8 accompaniment tracks. 48 user styles. All Style Performances are programmable (included 4 Single Touch Settings for each style). Direct Disk/Direct Hard Disk feature. Compatible with old i series style format.
<b>Styles Controls</b>	4 Variations, 2 Fills, 2 Intros, 2 Endings, Counter In/Break, Synchro Start/Stop, Tap Tempo/Reset, Fade In/Out, Bass Inversion, Manual Bass, Tempo Lock, Memory, Accompaniment Volume, Accompaniment Mute, Drum Mapping, Snare & Kick Designation, Single Touch.
<b>General Controls</b>	Master Volume, Ensemble, Octave Transpose, Master Transpose, Split Point, Style Change, Tracks Volume, Quarter of tone Pedal Function, Programmable Slider, Joystick, Dial.
<b>Multi PAD</b>	4 assignable pads + Stop button.
<b>Performance</b>	80 real-time Performances + more than 200 Styles Performances (that contains 4 Single Touch Settings each)
<b>Song Play</b>	XDS* Crossfade Dual Sequencer player – 2 Sequencers with separate Start/Stop, Pause, '<< Rew' and '>> FF' controls. Balance control. Lyrics are displayed on-screen. Jukebox Function. SMF Direct Player (format 0 and 1).
<b>Song /Backing Sequence</b>	Easy record – 16 tracks – SMF format.
<b>Control Inputs</b>	Damper Pedal, Assignable pedal/switch, EC5 (programmable multiswitches).
<b>Audio Outputs</b>	Left/mono, Right – Out 1 – Out 2.
<b>Audio Inputs</b>	Left/mono, Right, with separate Gain controls (Mic, Guitar, Line).
<b>MIDI</b>	In, Out, Thru, PC to Host.
<b>Floppy Disk</b>	3.5 inch 2DD/2HD (MS-DOS compatible).
<b>Display</b>	Backlit custom LCD.
<b>Main Amplifier</b>	2x22 Watt.
<b>Speakers</b>	4 speakers (in Bass Reflex Box- Auto Loudness control).
<b>Power Consumption</b>	35 Watt.
<b>Dimensions</b>	W = 1110mm, D = 388mm, H = 164mm without music rest.
<b>Weight</b>	13.9 kg.
<b>Accessories</b>	EC5 Multi-switches controller, EXP-2 Foot Controller, XVP-10 Exp/Volume Pedal, PS-1 Footswitch, DS-1H Damper Pedal.
<b>Option</b>	Flash Card (PCMCIA) for new PCM data – Vocal/Guitar processor board – Hard Disk (up to 2 Gbyte ) – Optional Video Interface board.

- Specification and design are subject to change without notice for the purpose of product enhancement.

1110.0 (W)

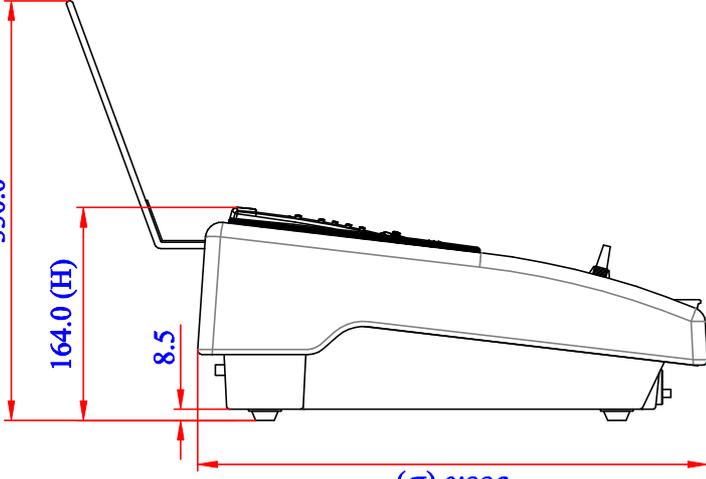


330.0

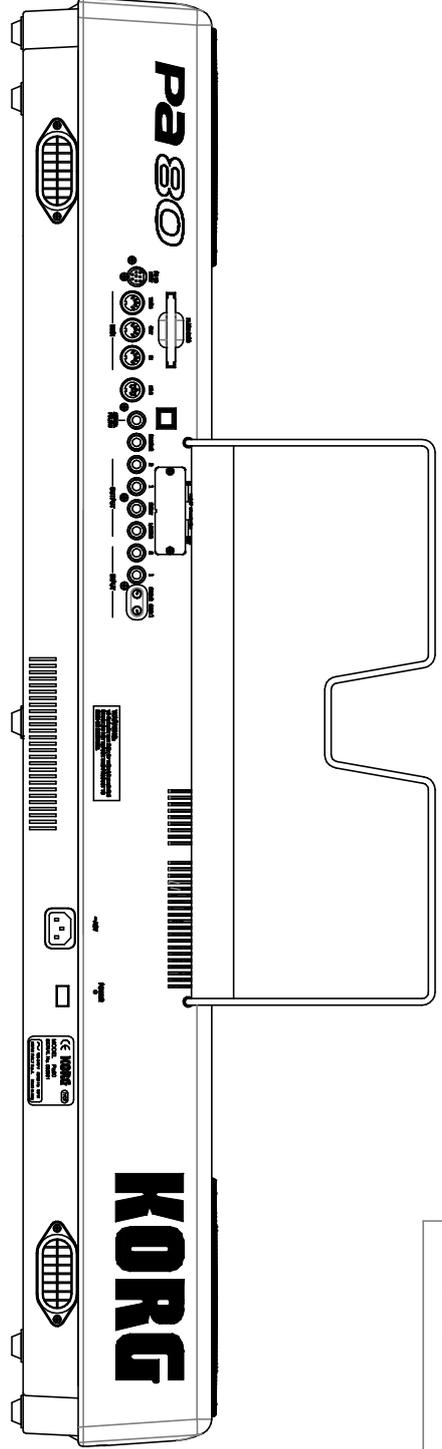
164.0 (H)

8.5

388.0 (D)



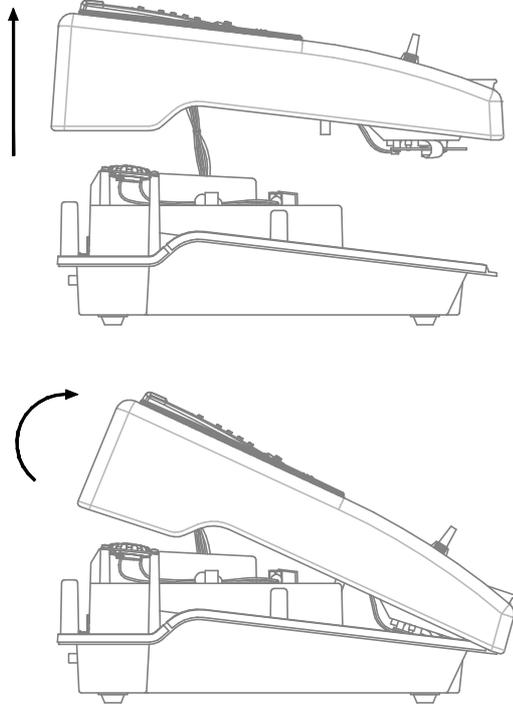
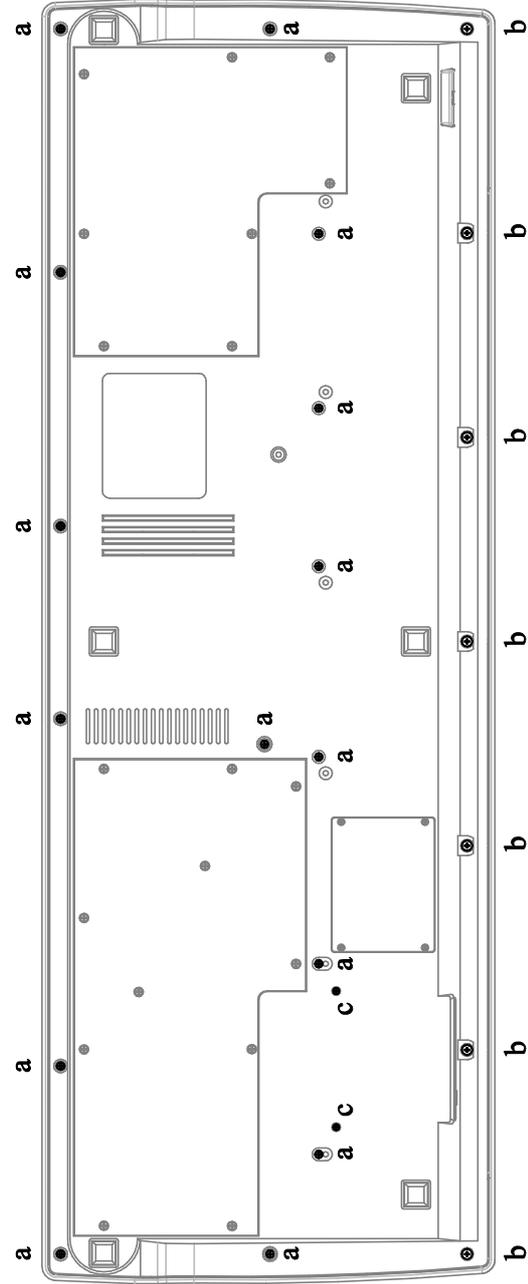
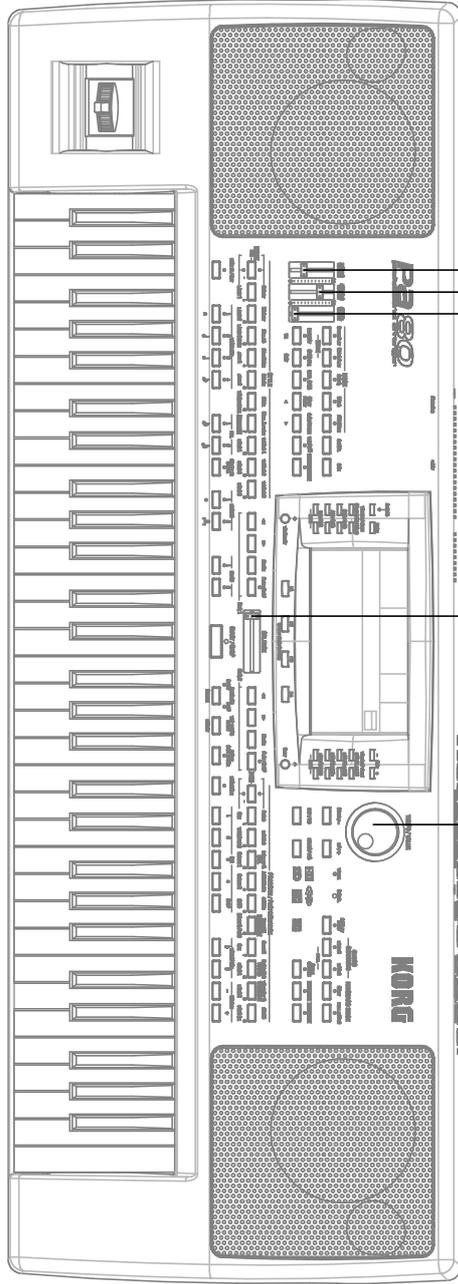
WEIGHT = 13.9 Kg



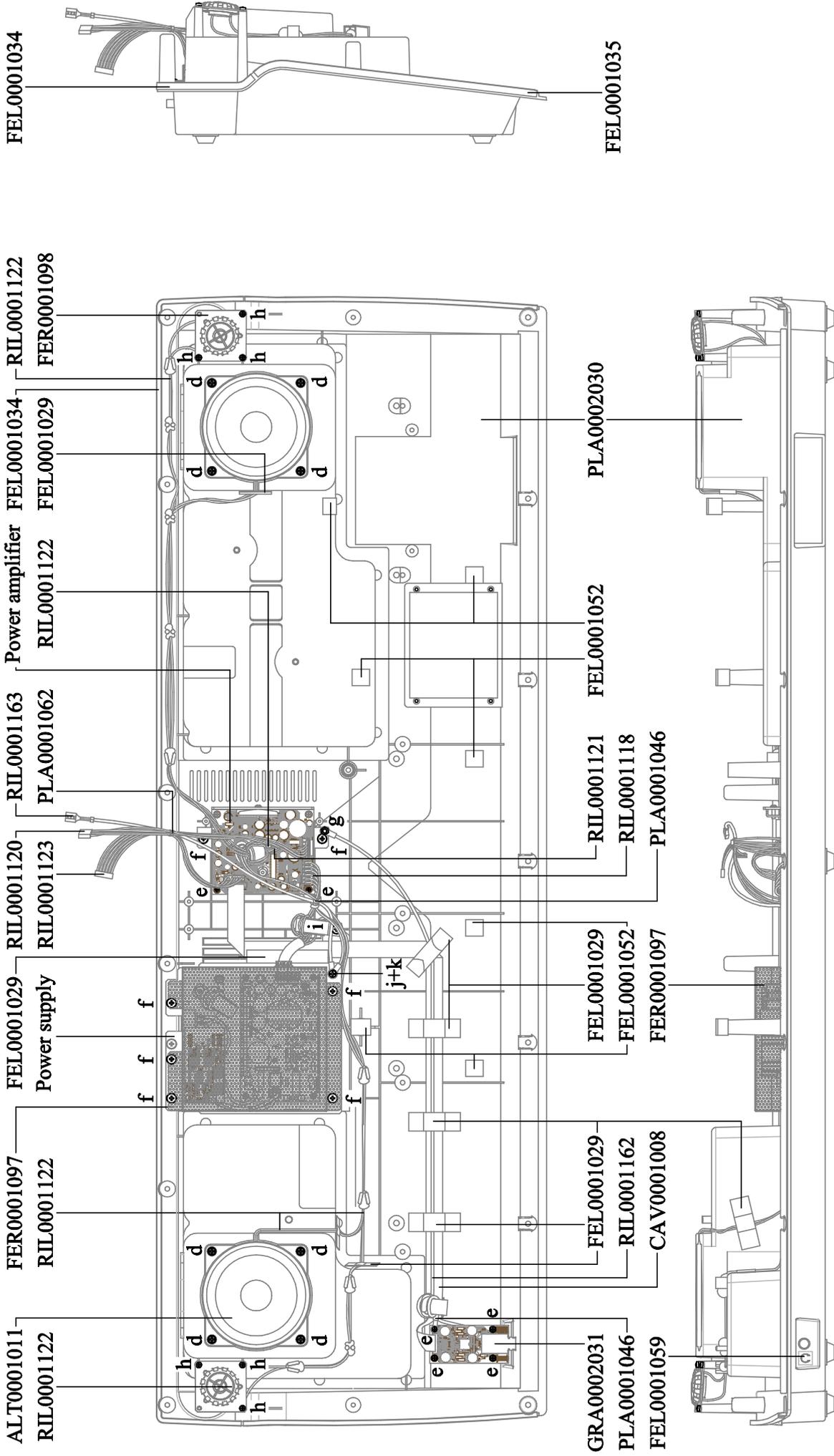
Pa80 Full View

c	VTA0001039	Screw 2.9x9.5 TC Selfth. SP	2
b	VTA0001004	Screw 4x15 TFR PR	7
a	VTA0001067	Screw 3.5x16 TC AGG BZ	15
	<b>Ref. Code</b>	<b>Description</b>	<b>Q.ty</b>

Remove the marked screws from the bottom of Pa80 and then lift the upper case to separate it from the lower case and have access inside Pa80.



Pa80 Disassembly



ALT0001011  
RIL0001122

FER0001097  
RIL0001122

FEL0001029  
Power supply

RIL0001120  
RIL0001123

RIL0001163  
PLA0001062

Power amplifier FEL0001034  
RIL0001122  
FEL0001029  
RIL0001122  
FER0001098

FEL0001034

GRA0002031  
PLA0001046  
FEL0001059

FEL0001029  
RIL0001162  
CAV0001008

FEL0001029  
FEL0001052  
FER0001097

RIL0001121  
RIL0001118  
PLA0001046

FEL0001052

PLA0002030

FEL0001035

Ref. Code	Description	Q.ty
g	VTA0001045 M4 Selflocking nut	1
f	VTA0001040 Screw 4.2x8 TFR Selfthreading SP Tropicalized	7
e	VTA0001038 Screw 3x8 TC PR SP Tropicalized	6
d	VTA0001034 Screw 4x20 TC PR Zn	8

Ref. Code	Description	Q.ty
k	VTA0001011 Groover Ø 4mm	1
j	VTA0001050 Screw M4x8 TC Selftapping	1
i	VTA0001047 Screw 4.2x11 TFR Zn	1
h	VTA0001051 Screw 3x13 TC PR Zn	6

Lower Case Disassembly 1

FEL0001040

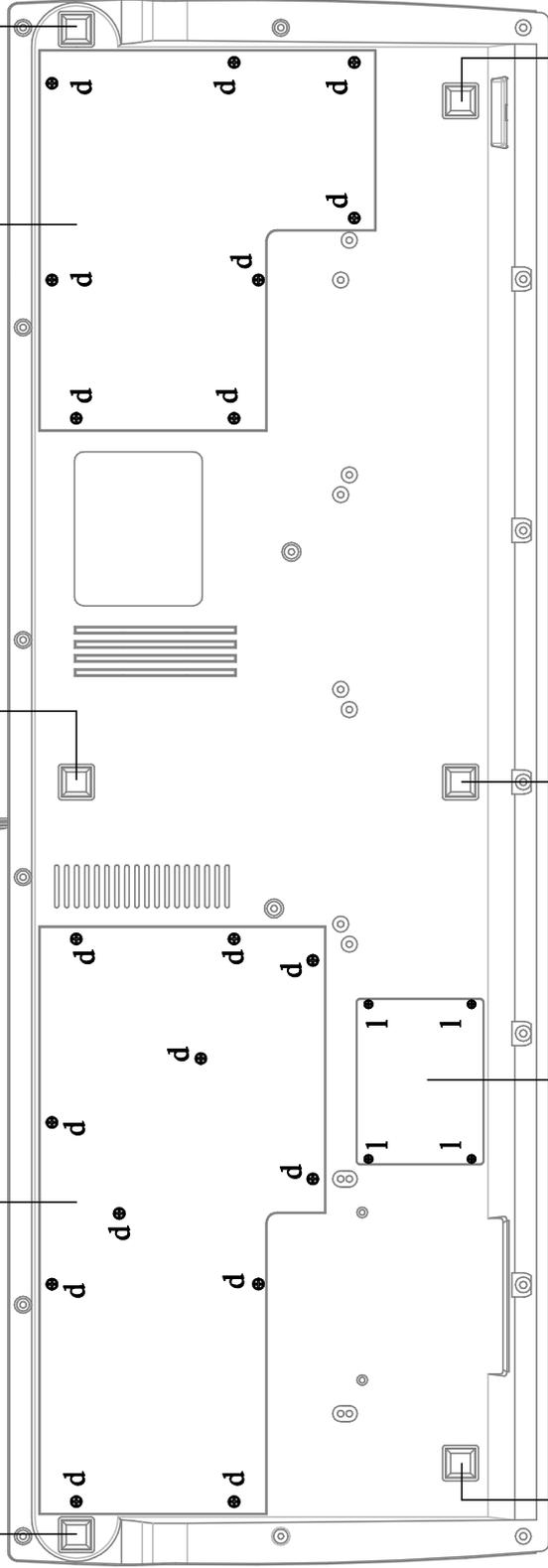
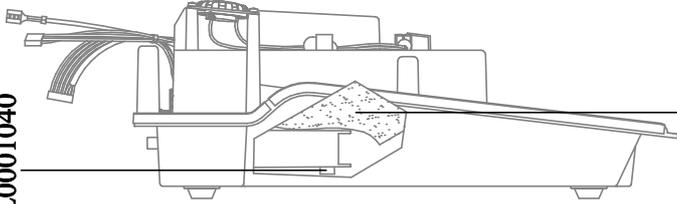
FEL0001030

LEG0001006

FEL0001030

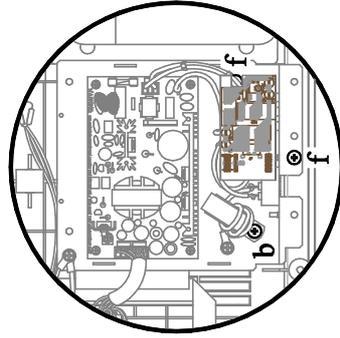
LEG0001005

FEL0001030



FEL0001022

View 1



FEL0001030

PLA0001037

FER0001116

FEL0001030

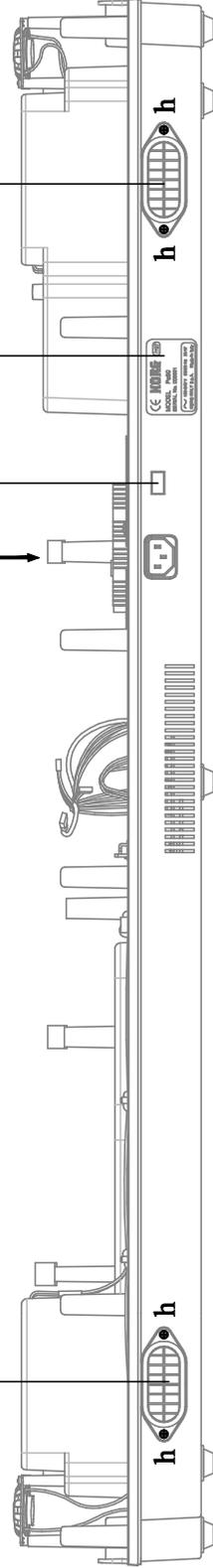
View 1

PLA0001052

FEL0002030

PLA0001037

FEL0001030



1	VTA0001033	Screw 3x8 TC PR Zn	4
h	VTA0001051	Screw 3x13 TC PR Zn	4
f	VTA0001040	Screw 4.2x8 TFR Selfthreading SP Tropicalized	2
d	VTA0001034	Screw 4x20 TC PR Zn	19
b	VTA0001004	Screw 4x15 TFR PR Zn	1
<b>Ref. Code</b>	<b>Description</b>		<b>Q.ty</b>

Lower Case Disassembly 2

Upper Case Disassembly 1

Floppy Disk Group RIL0001139 RIL0001133 RIL0001142

Output board RIL0001134 FEL0001029

RIL0001124

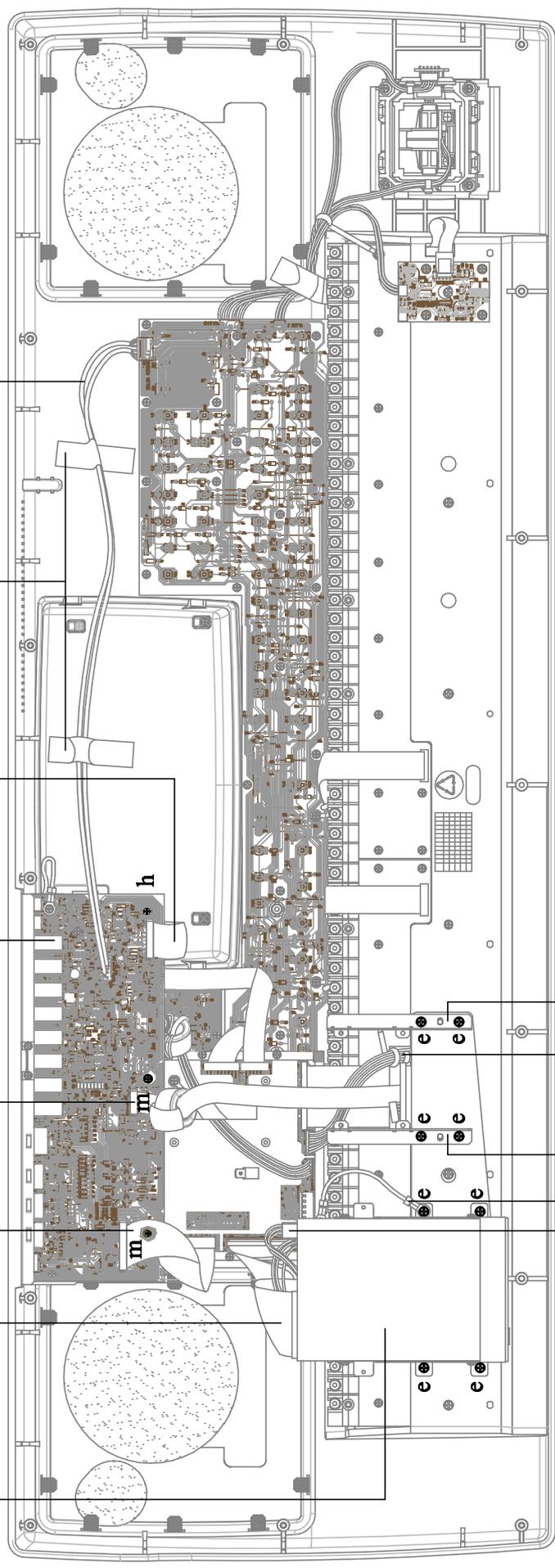
RIL0001127

RIL0001066 FER0001114 FER0001115

FER0001100 RIL0001143 FER0001100

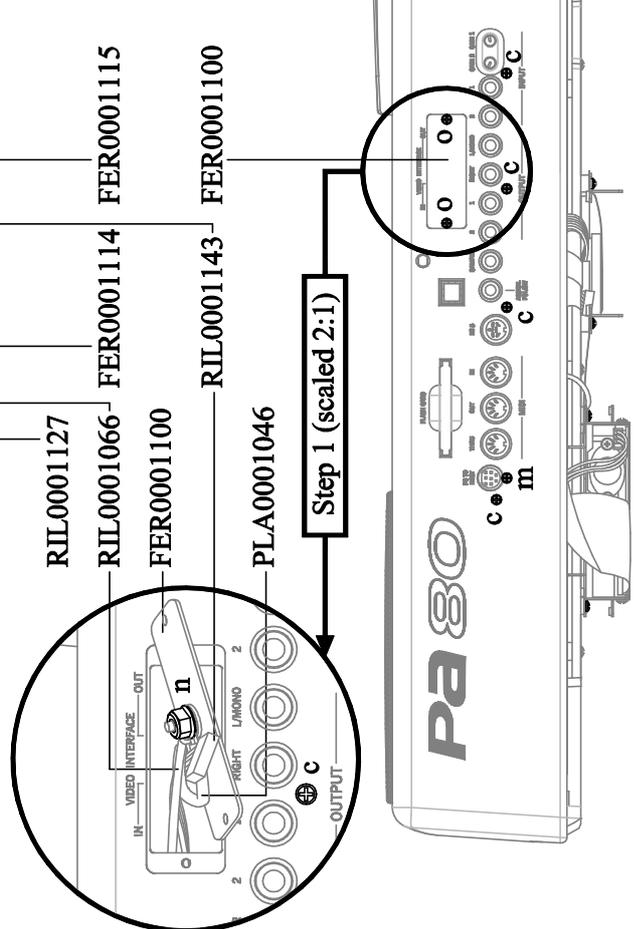
PLA0001046

Step 1 (scaled 2:1)

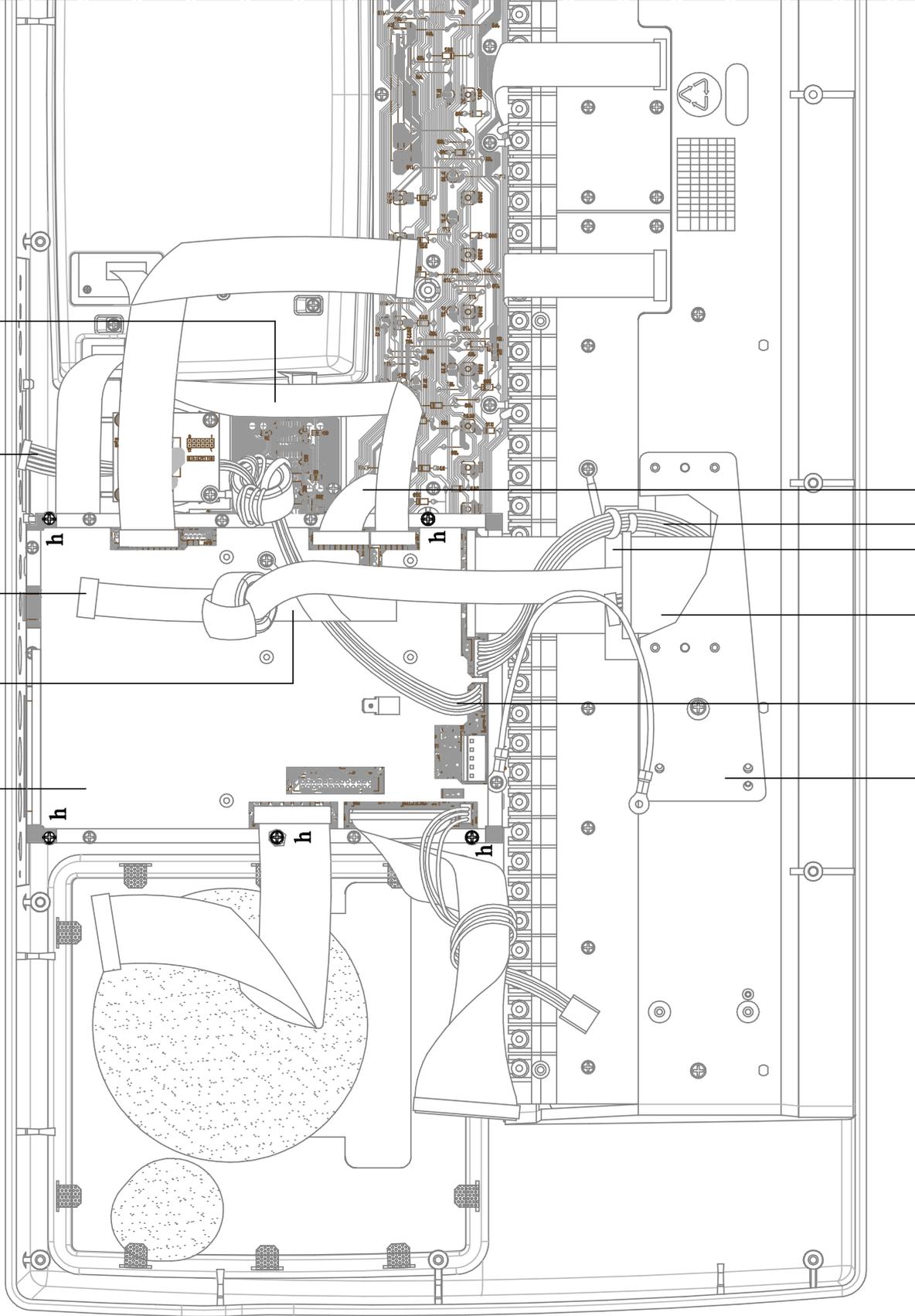


Unscrew 2 screws  
VTA0001037 (p)  
to remove the plate  
FER0001100 and  
gain access to video  
board slot.

Ref.	Code	Description	Q.ty
o	VTA0001037	Screw 2.9x6.5 TC Selfthreading SP	2
n	VTA0001023	M3 Selflocking nut	1
m	VTA0001005	Screw M3x10 TC	3
h	VTA0001051	Screw 3x13 TC PR Zn	1
e	VTA0001038	Screw 3x8 TC PR SP Tropicalized	8
c	VTA0001039	Screw 2.9x9.5 TC Selfthreading SP	4



Main Board Group FEL0001029 RIL0001142 RIL0001143 RIL0001140

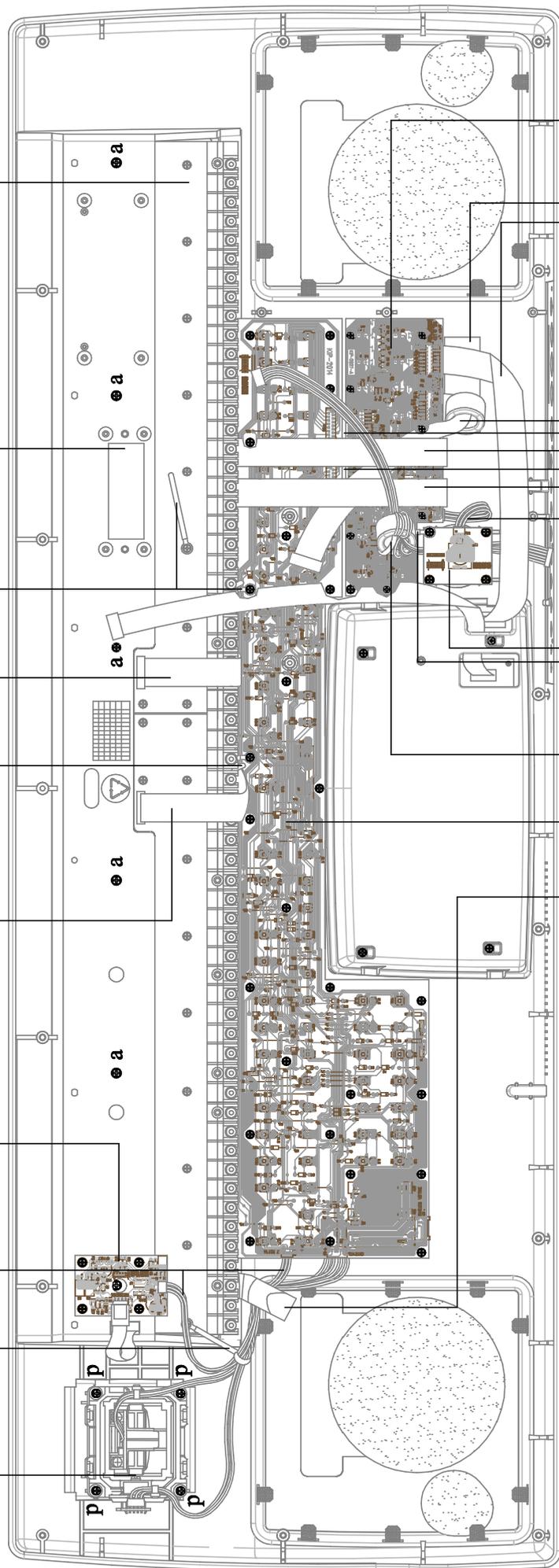


FEL0001057 RIL0001115  
 RIL0001143 FEL0001029  
 RIL0001132  
 RIL0001129

Upper Case Disassembly 2

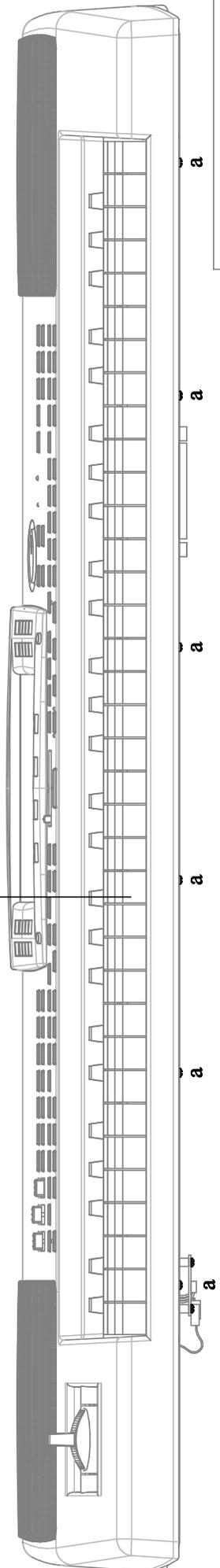
Ref. Code	Description	Q.ty
h VTA0001051	Screw 3x13 TC PR Zn	5

FDD0001014 PLA0001046 RIL0001125 GRA1002006 RIL0001138 PLA0001046 RIL0001137 PLA0001046 FEL0001058 TAS0001004



GRA0002027  
FEL0001058  
RIL0001132  
RIL0001136  
RIL0001138  
RIL0001126  
RIL0001137  
RIL0001135  
RIL0001143  
PLA0001046  
GRA0002034  
FEL0001029  
TAS0001004  
GRA0002014  
GRA0002034

p	VTA0001068	Screw 2.9x16 TC Zn	4
e	VTA0001038	Screw 3x8 TC PR SP Tropicalized	41
a	VTA0001067	Screw 3x13 TC AGG BZ	6
<b>Ref. Code</b>	<b>Description</b>		<b>Q.ty</b>

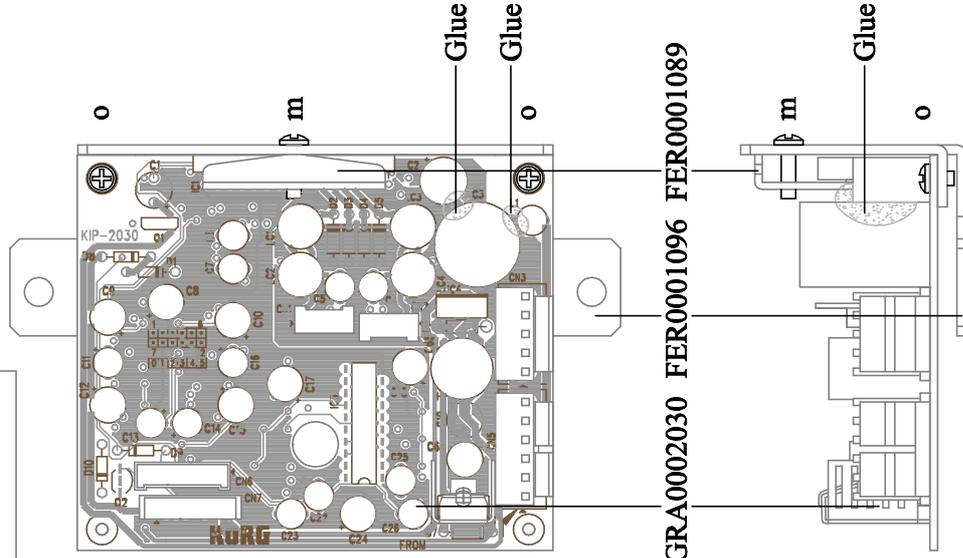


Upper Case Disassembly 3

GRA1002006, GRA0002014, GRA0002027 and GRA0002034 are fixed with screws "e".

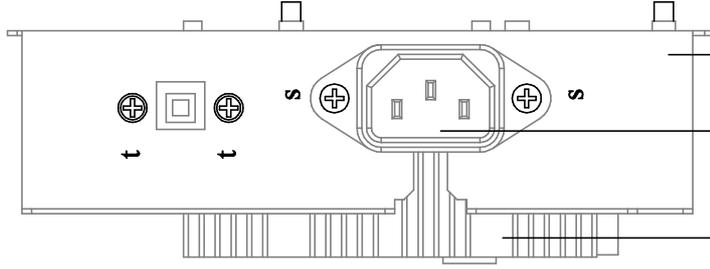


**Power Amplifier**



GRA0002030 FER0001096 FER0001089

t	VTA0001046	Screw M3x6 TC Selftapping	2
s	VTA0001060	Screw 2.9x9.5 TSP Zn	2
o	VTA0001037	Screw 2.9x6.5 TC Selfthreading SP	2
m	VTA0001005	Screw M3x10 TC Zn	5
k	VTA0001011	Groover Ø 4mm	2
j	VTA0001050	Screw M4x8 TC Selftapping	2
<b>Ref. Code</b>		<b>Description</b>	<b>Q.ty</b>

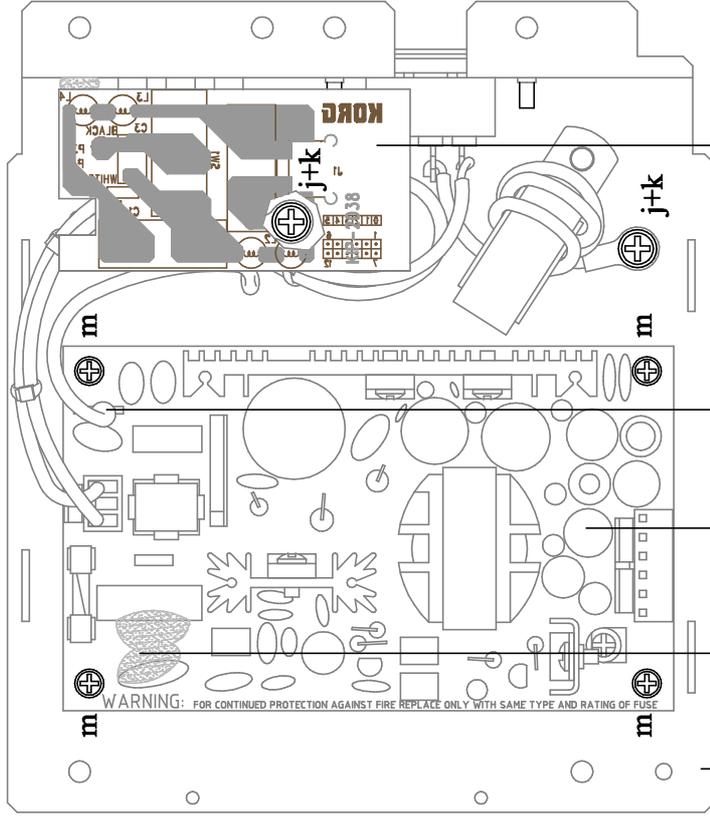


FER0001095

GRA0002038

TRA0004001

RIL0001131



Glue TRA0004001 RIL0001130 GRA0002038 Glue

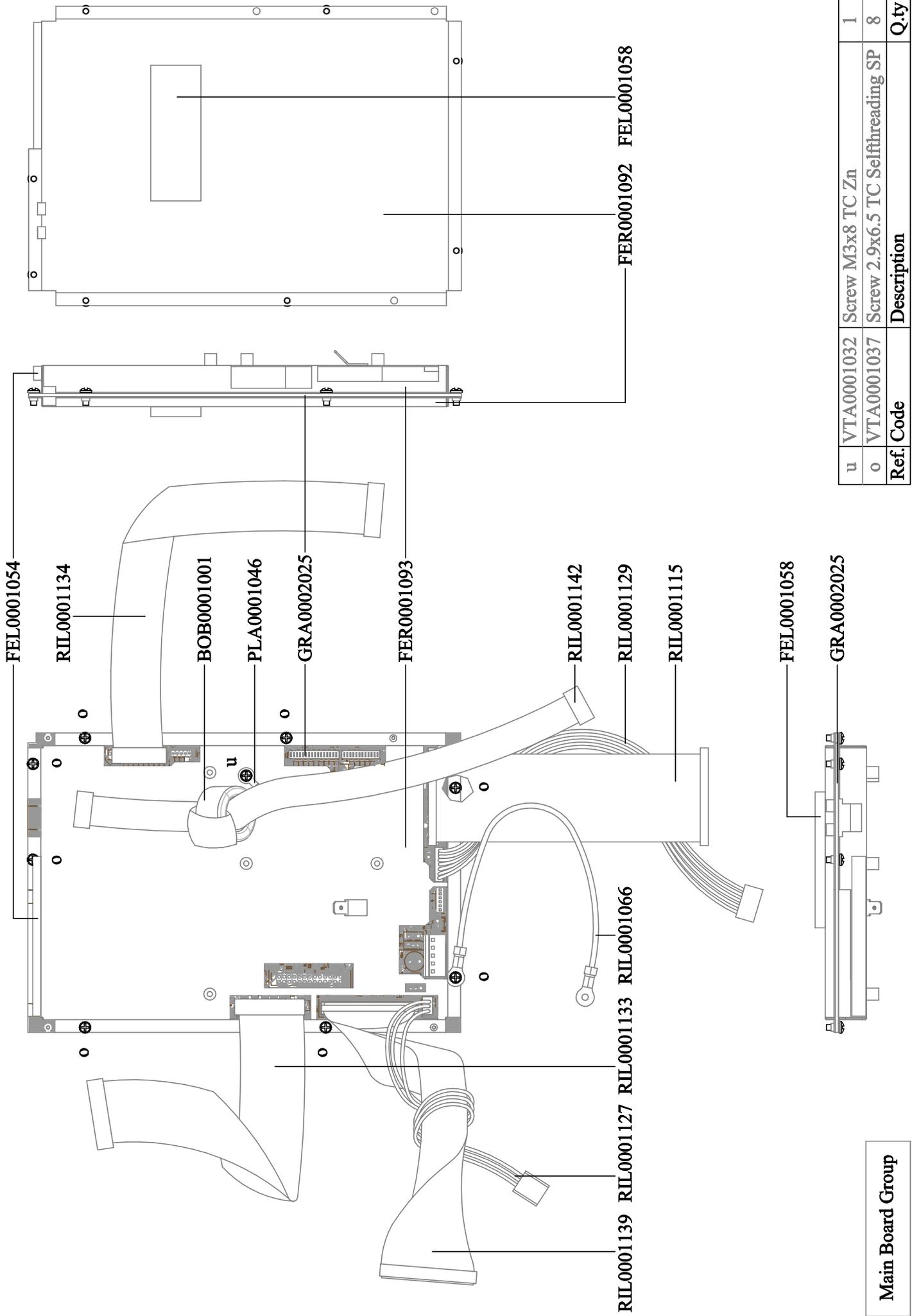
j+k

TRA0004001

RIL0001119

**Power Switching Supply**

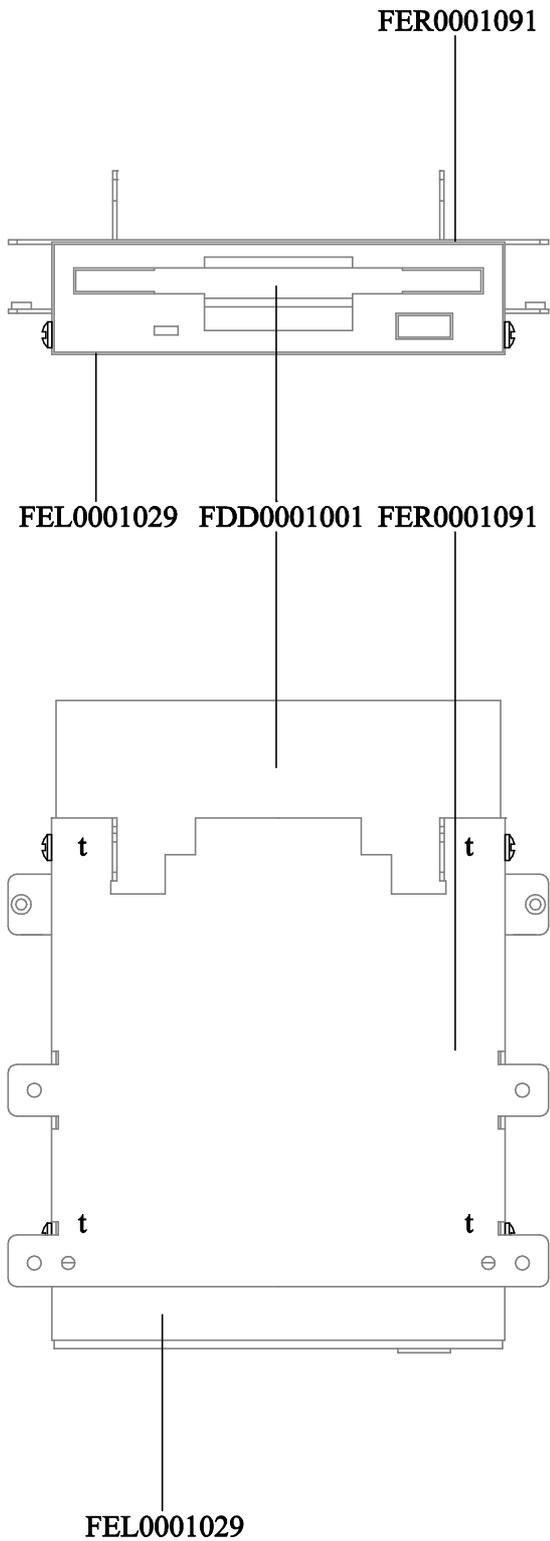
**Power Amplifier - Power Switching Supply**



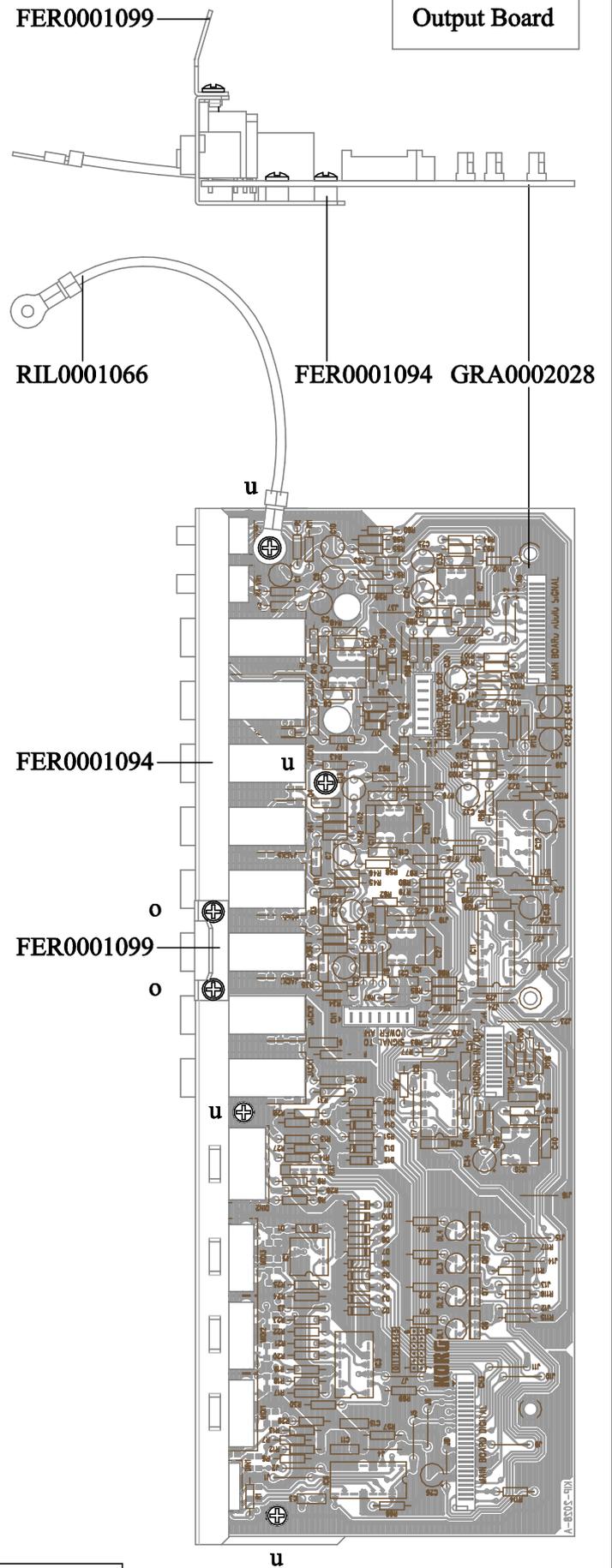
**Main Board Group**

Ref.	Code	Description	Q.ty
u	VTA0001032	Screw M3x8 TC Zn	1
o	VTA0001037	Screw 2.9x6.5 TC Selfthreading SP	8

**Floppy Disk Group**



**Output Board**

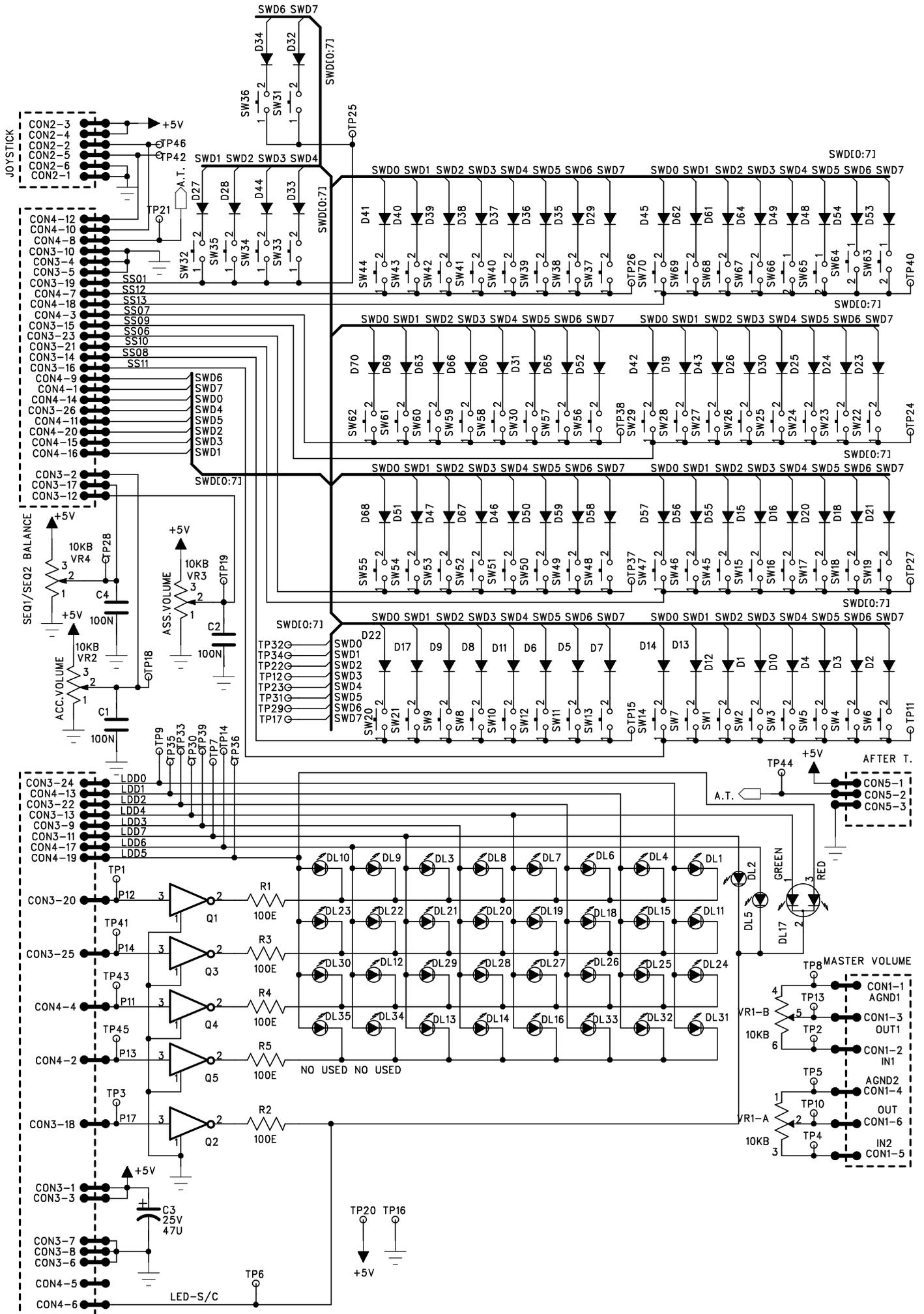


u	VTA0001032	Screw M3x8 TC Zn	4
t	VTA0001046	Screw M3x6 TC Selftapping	4
o	VTA0001037	Screw 2.9x6.5 TC Selfthreading SP	2
<b>Ref. Code</b>		<b>Description</b>	<b>Q.ty</b>

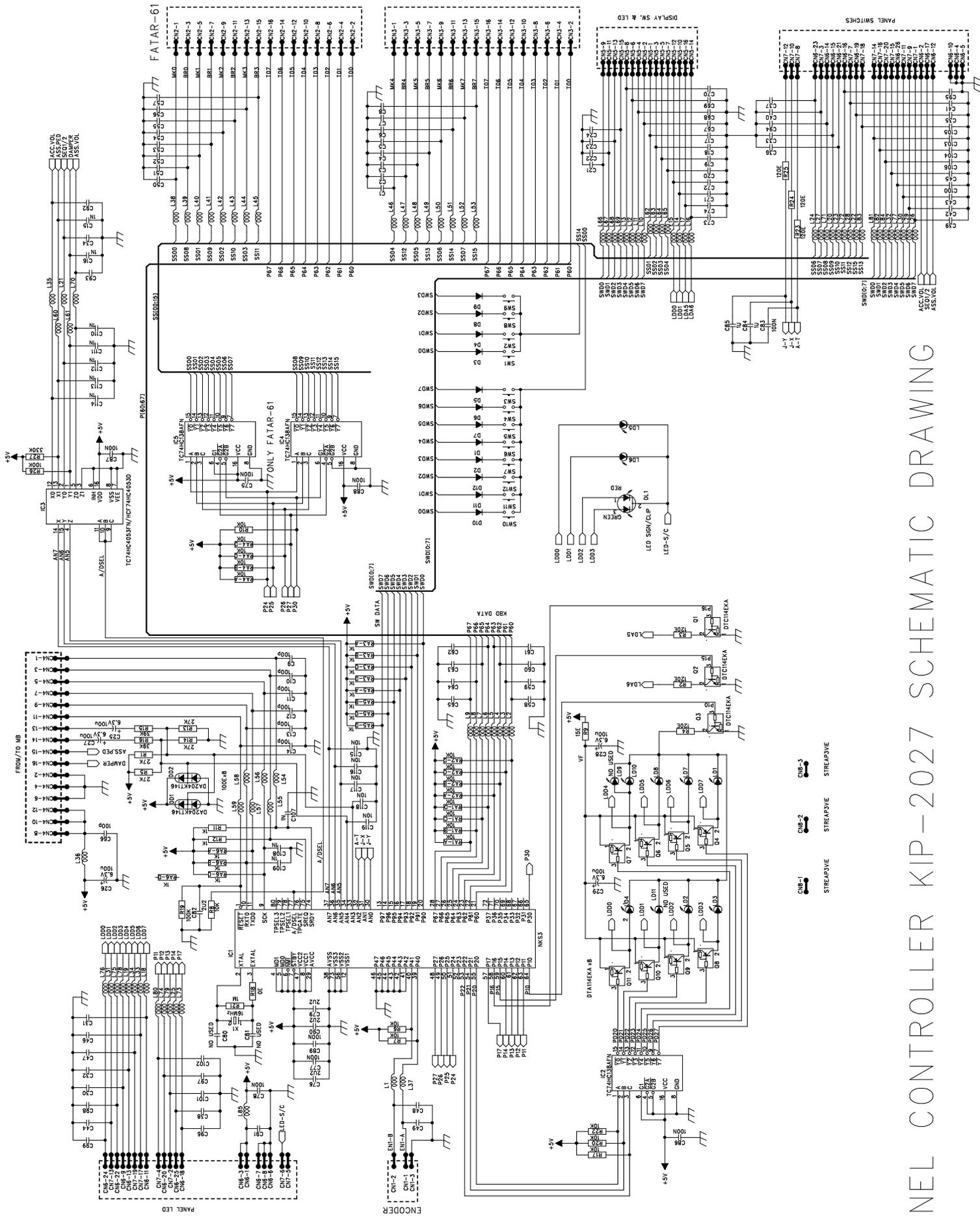
**Floppy Disk Group - Output Board**



# PANEL BOARD KIP-2014 SCHEMATIC DRAWING



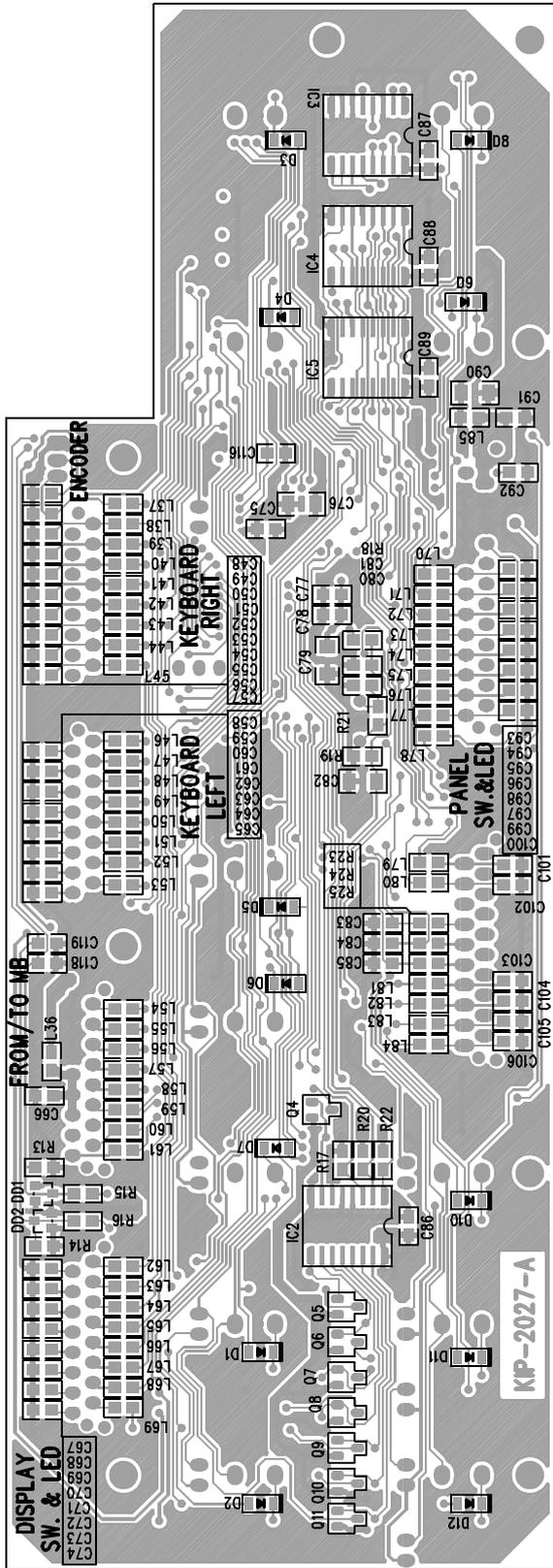




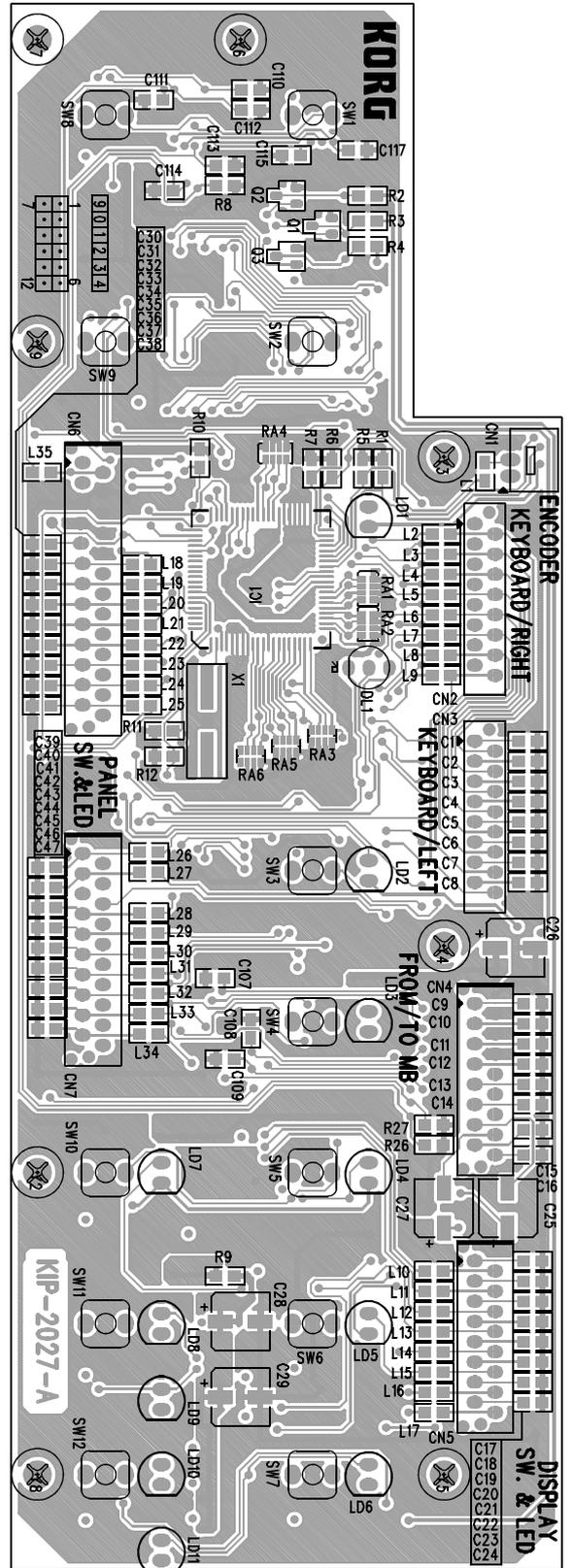
PANEL CONTROLLER KIP-2027 SCHEMATIC DRAWING

- CNB-1 STREAPVIE
- CNB-2 STREAPVIE
- CNB-3 STREAPVIE

# PANEL CONTROLLER KIP-2027 BOTTOM SIDE

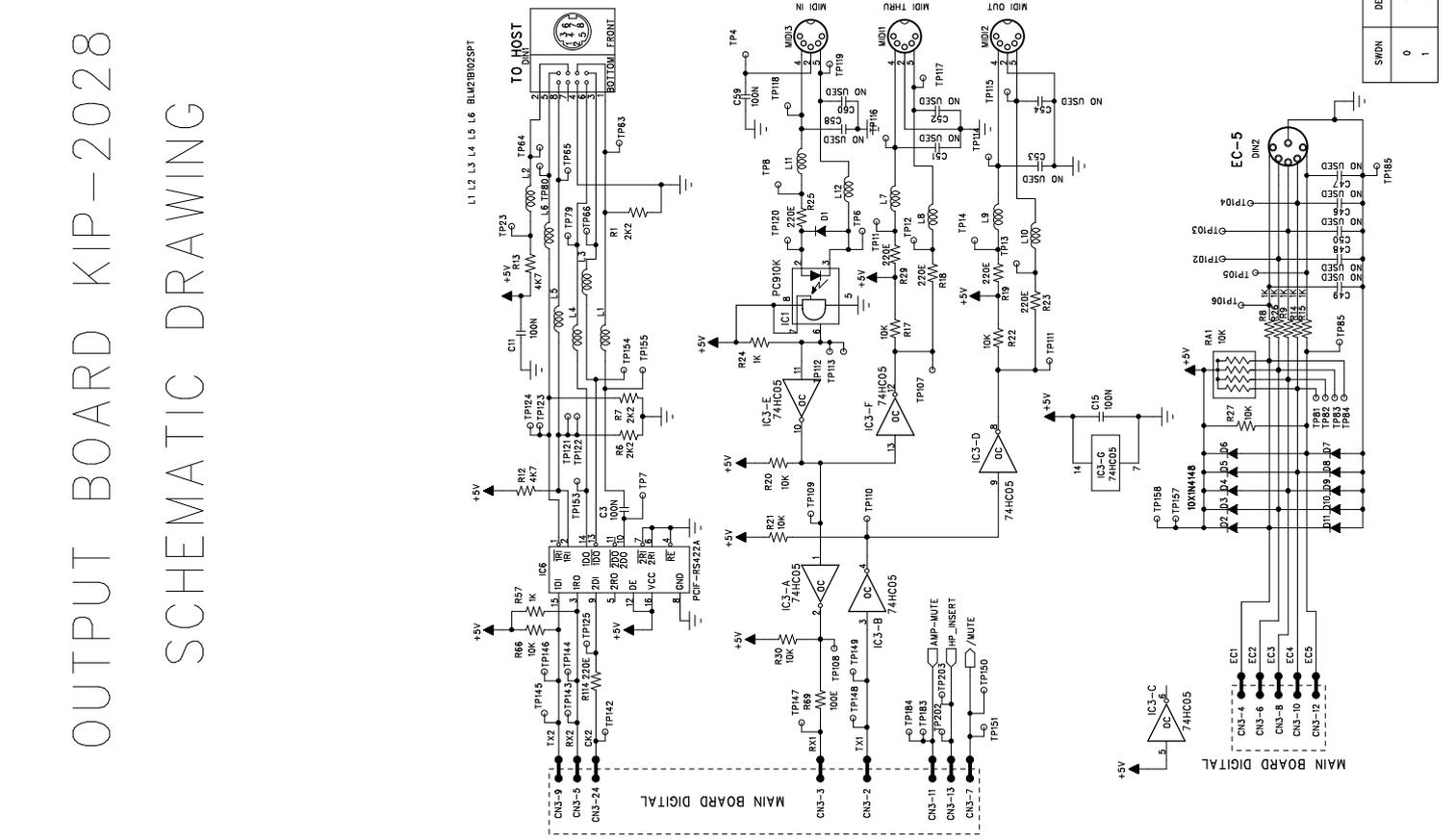
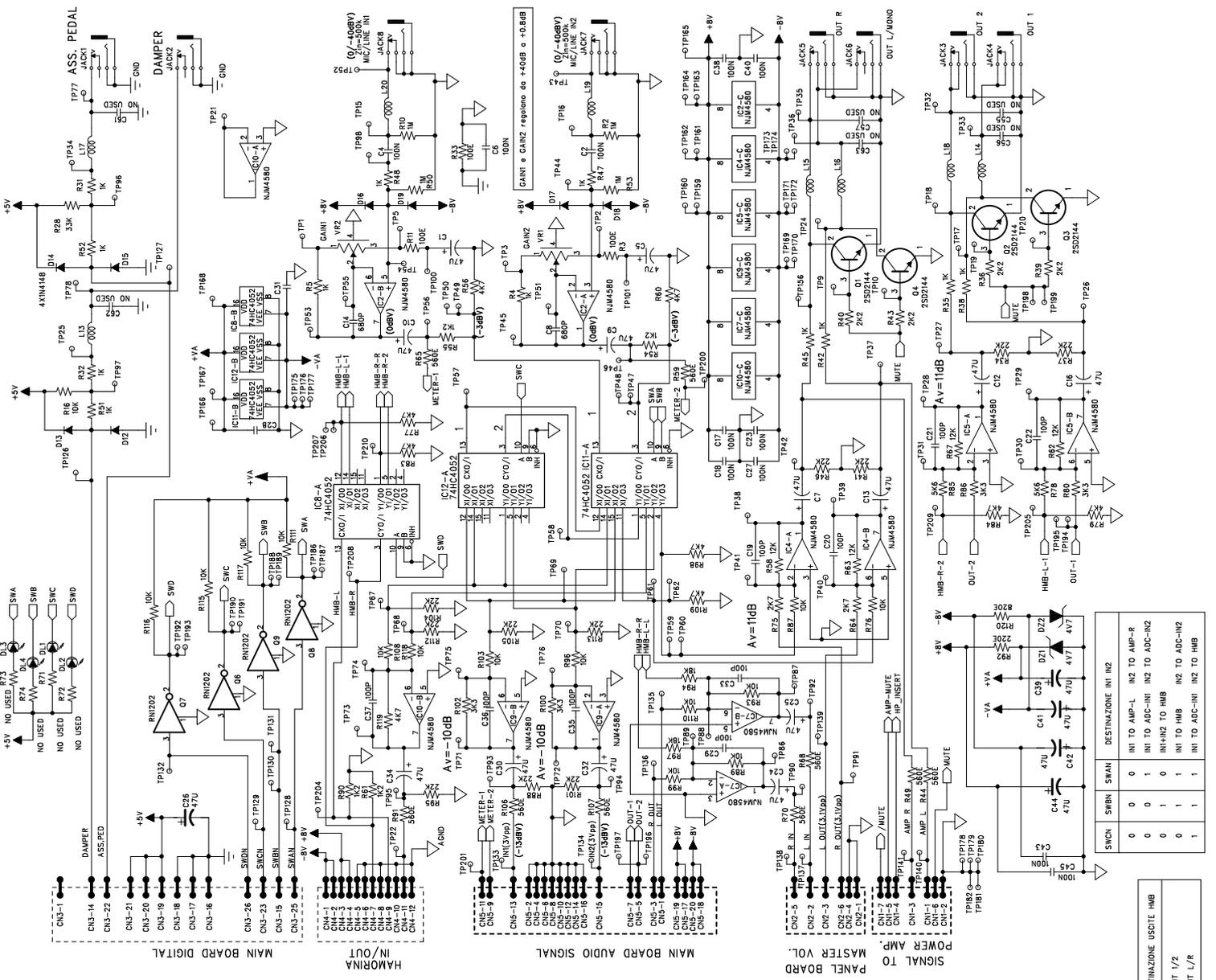


# PANEL CONTROLLER KIP-2027 TOP SIDE

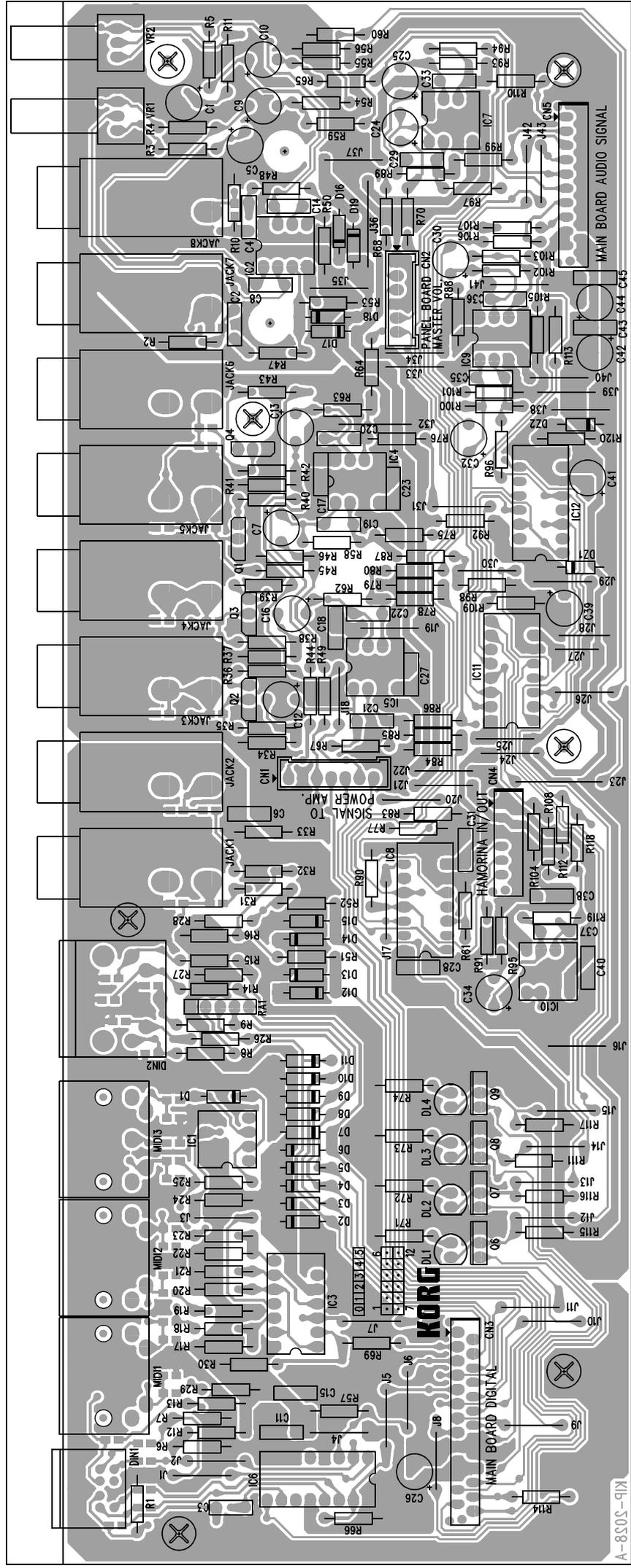


# OUTPUT BOARD KIP-2028

## SCHEMATIC DRAWING

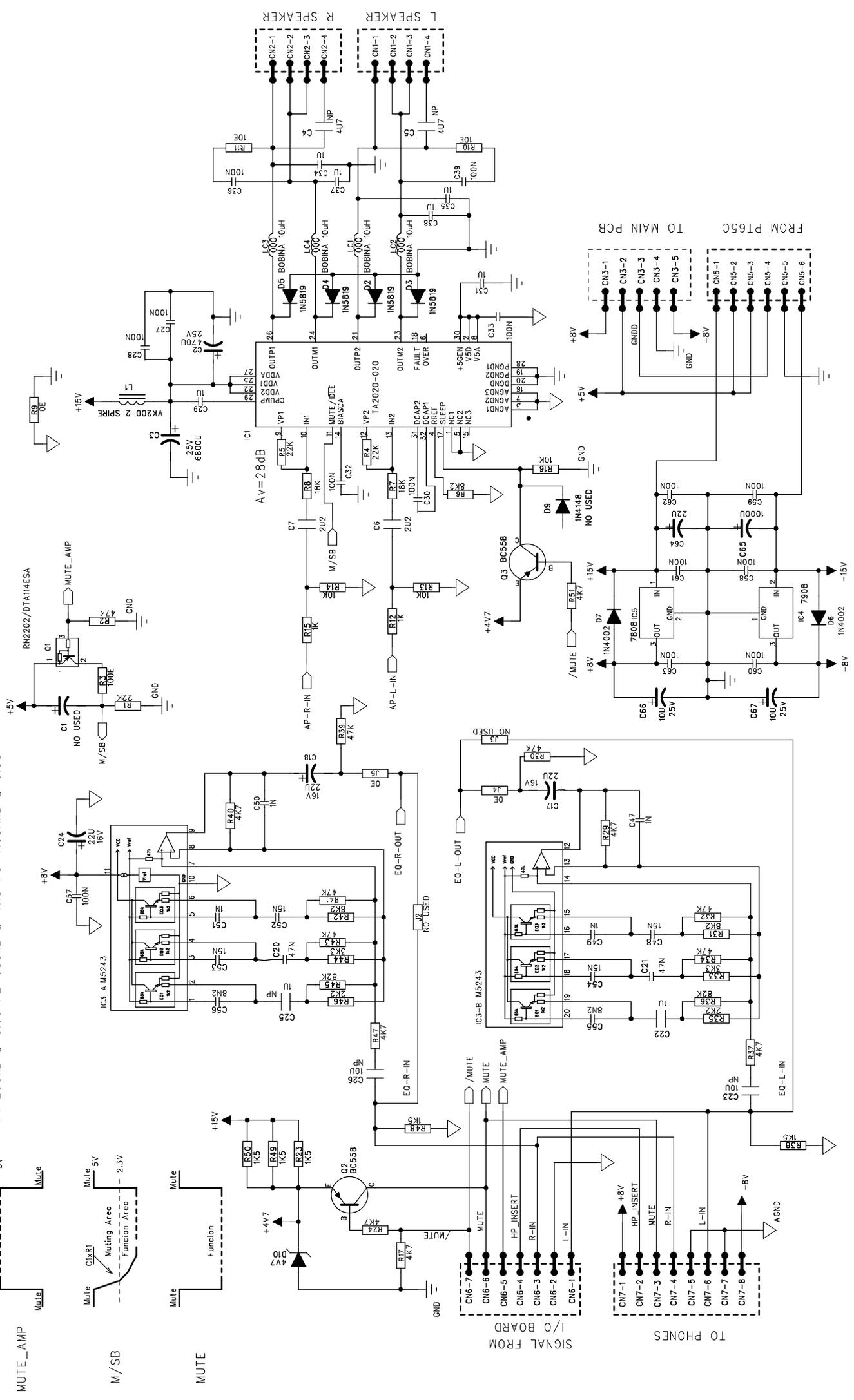
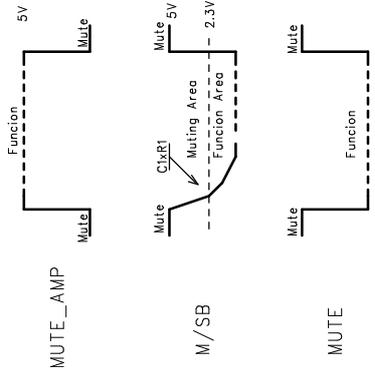


# OUTPUT BOARD KIP-2028 COMPONENT SIDE



# POWER AMPLIFIER KIP-2030 SCHEMATIC DRAWING (Sheet 1)

F1=200hz Q=0.66 F2=680hz Q=4.15 F3=4.65Khz Q=0.58



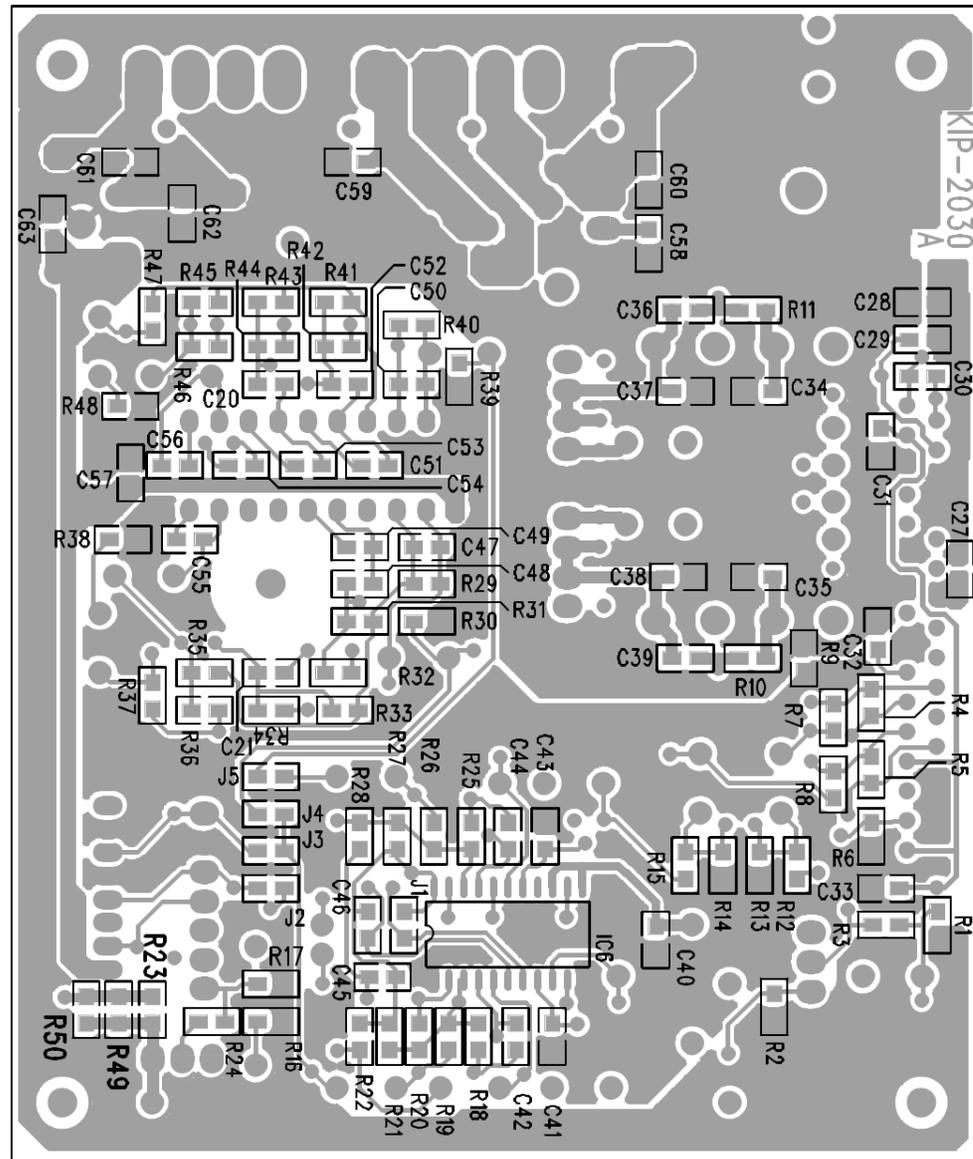
SIGNAL FROM I/O BOARD

TO PHONES

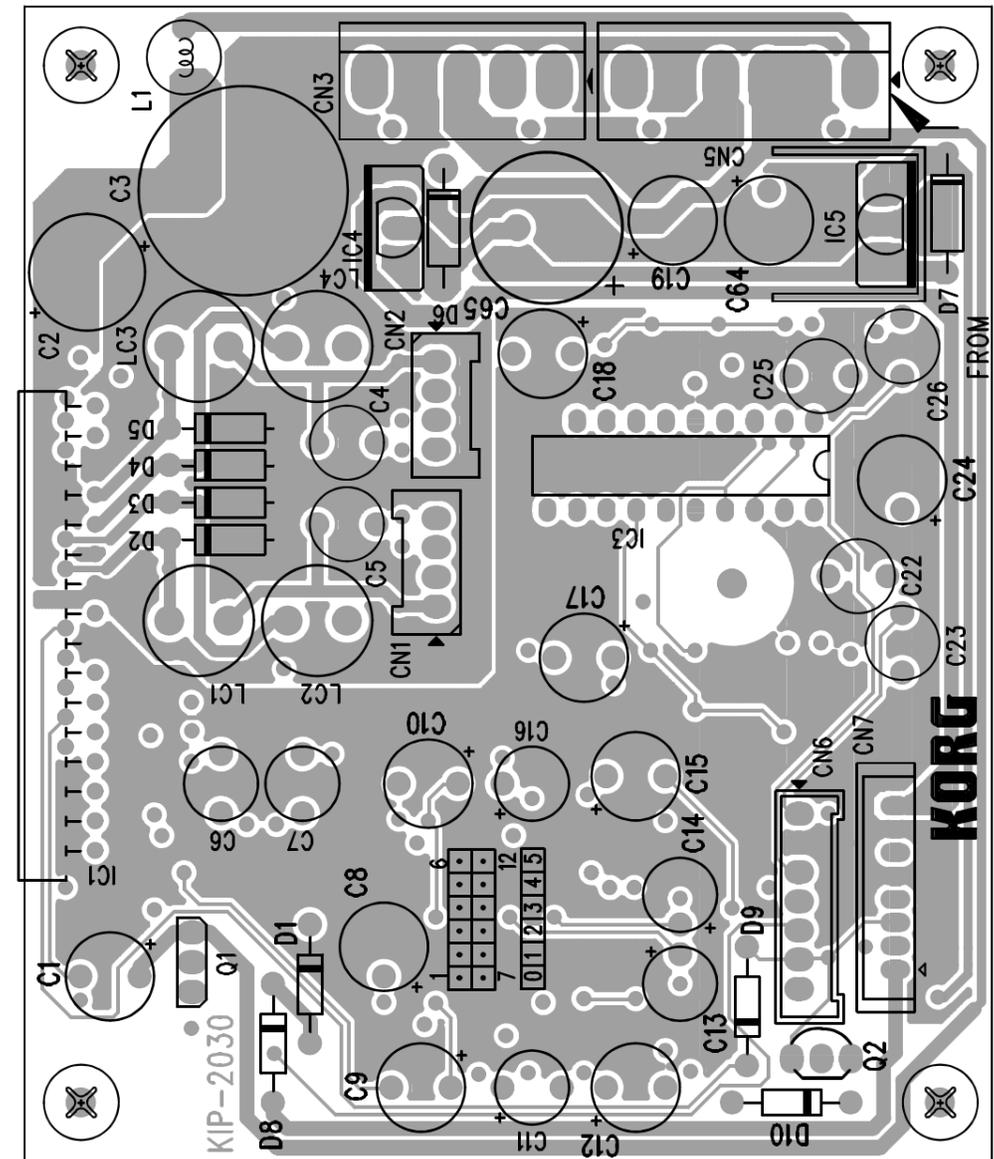
FROM P165C TO MAIN PCB

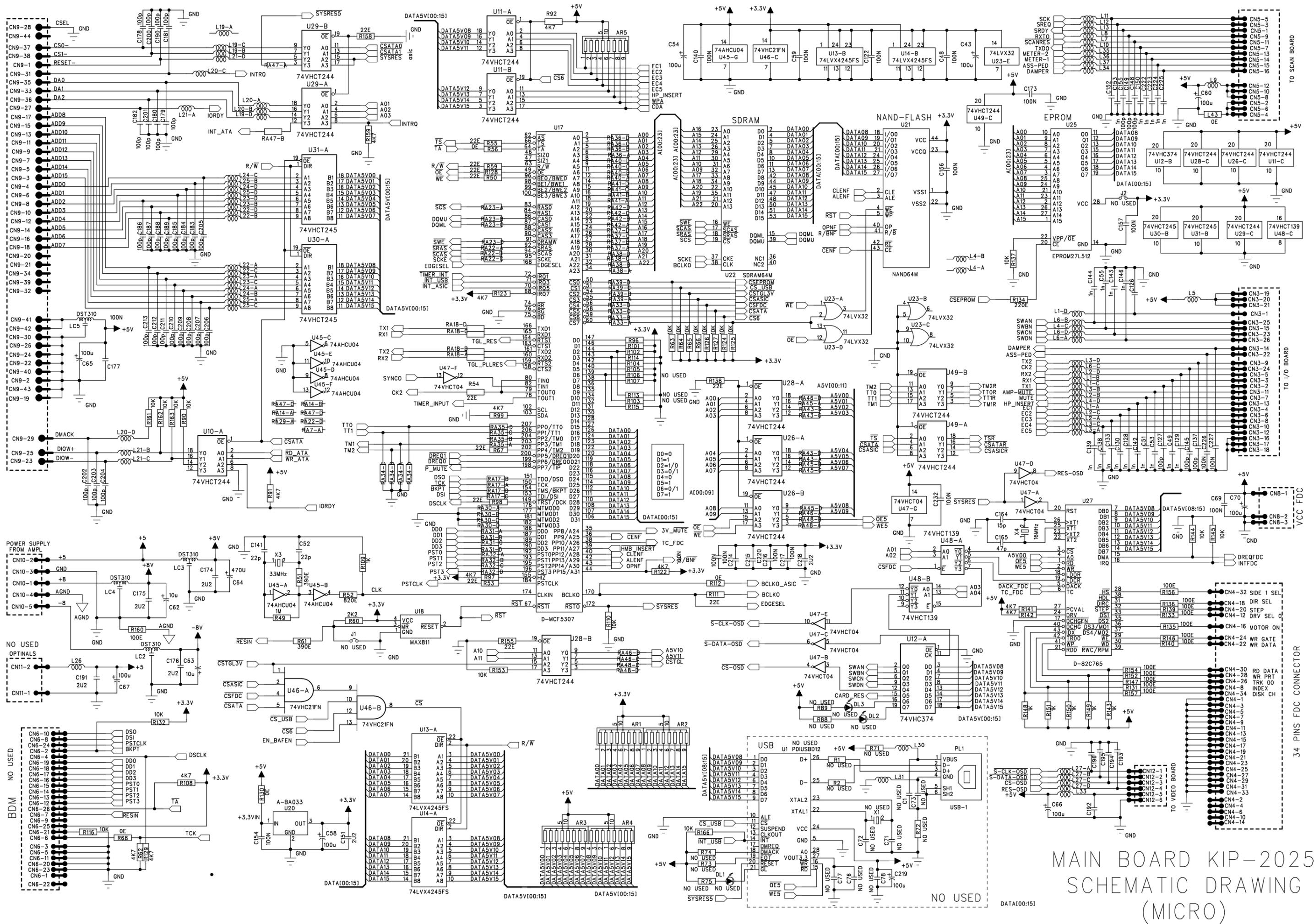


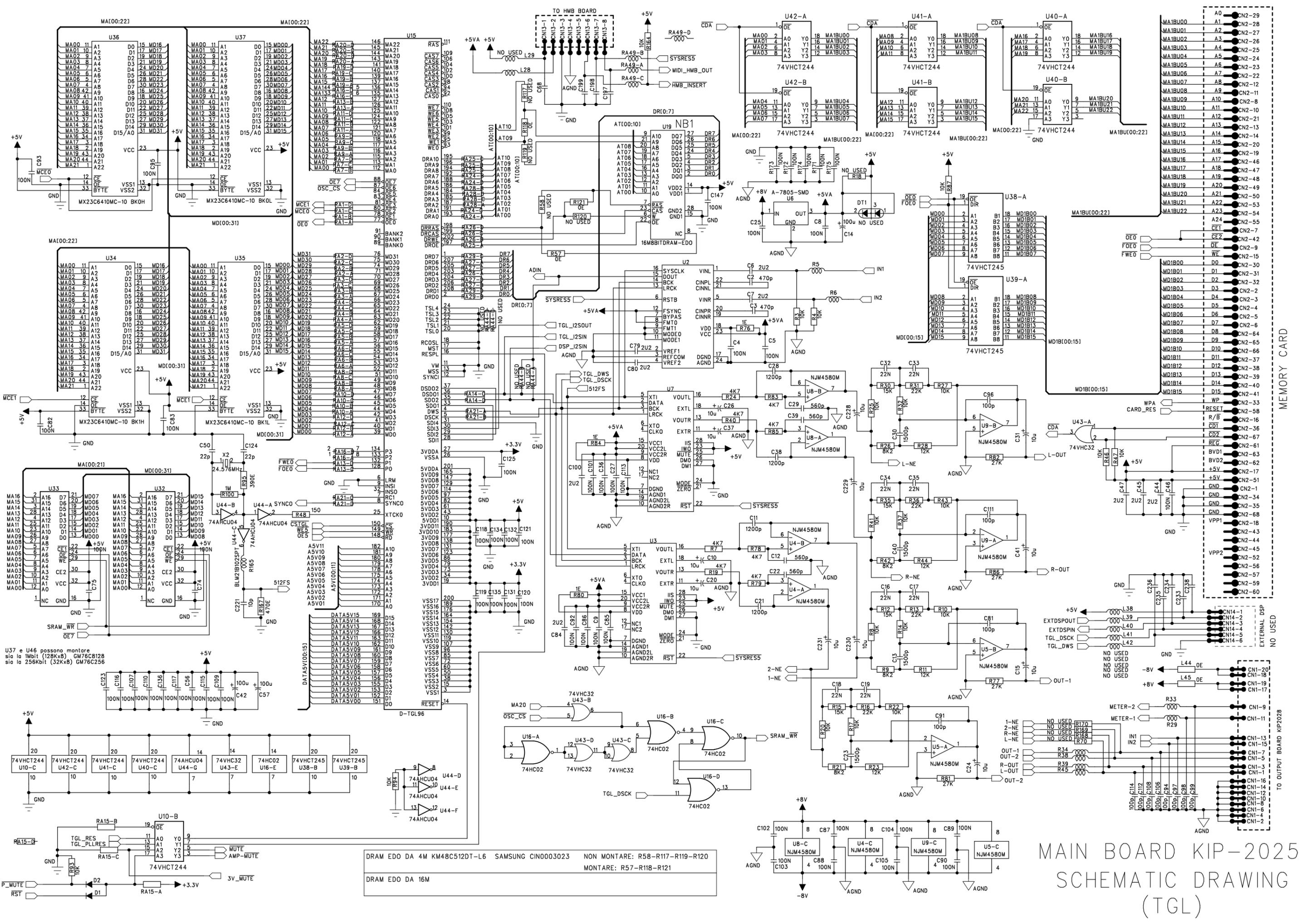
# POWER AMPLIFIER KIP-2030 TOP SIDE



# POWER AMPLIFIER KIP-2030 BOTTOM SIDE







U37 e U46 possono montare sia la 1Mbit (128Kx8) GM76C8128 sia la 256Kbit (32Kx8) GM76C256

DRAM EDO DA 4M KM48C512DT-L6 SAMSUNG C1N003023 NON MONTARE: R58-R117-R119-R120  
 DRAM EDO DA 16M MONTARE: R57-R118-R121

# MAIN BOARD KIP-2025 SCHEMATIC DRAWING (TGL)

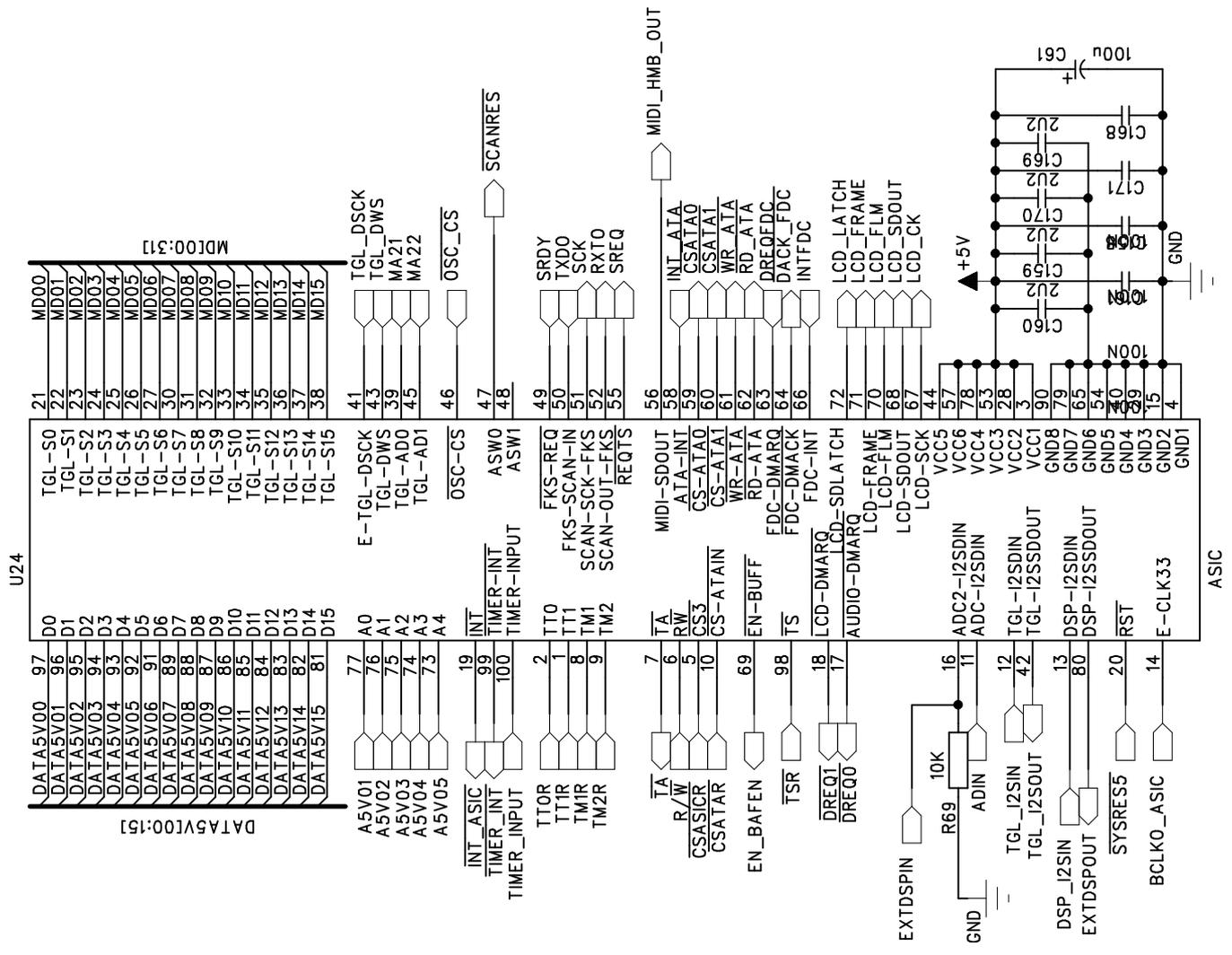
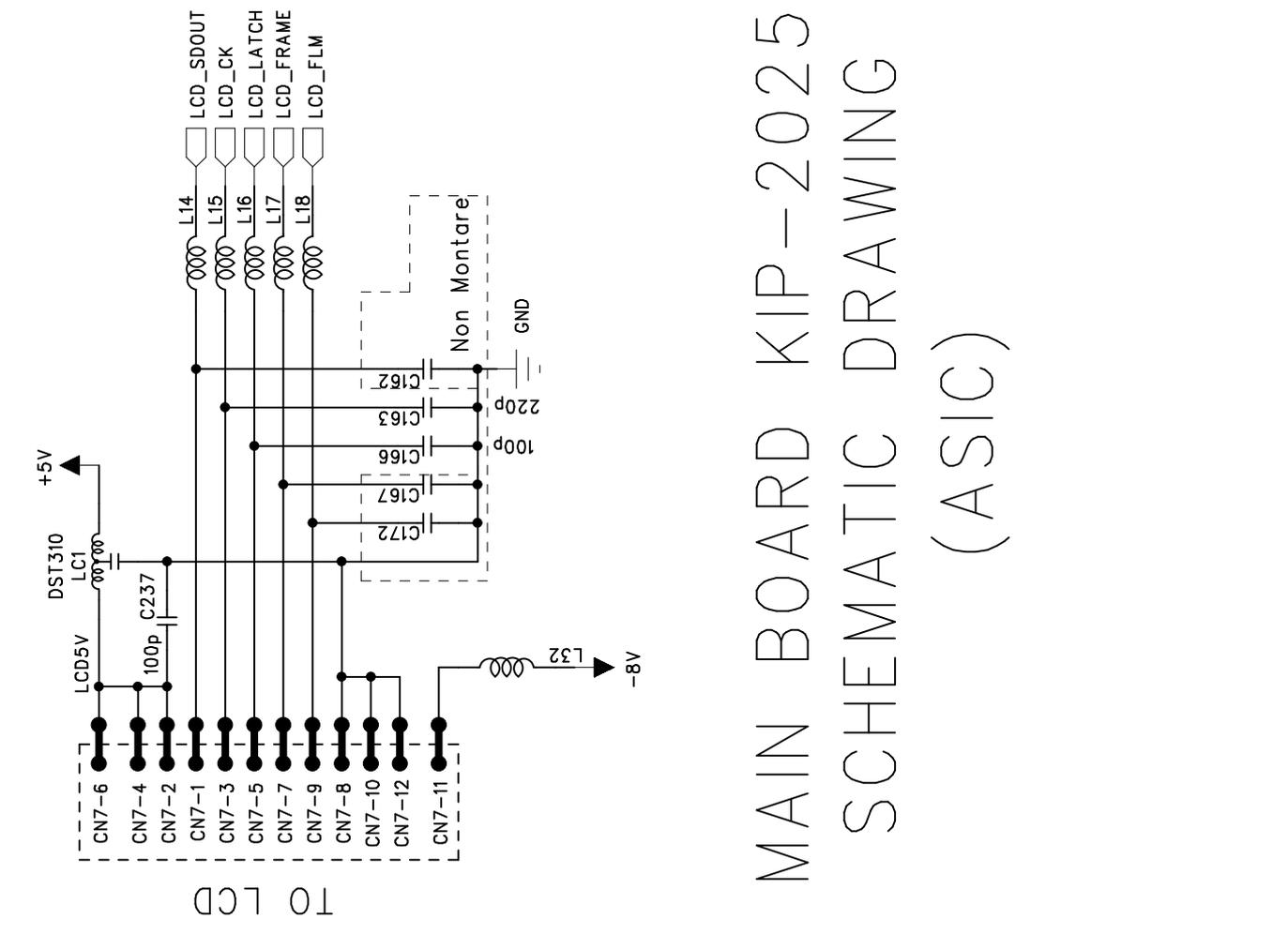
MEMORY CARD

EXTERNAL DSP

TO OUTPUT BOARD KIP2028

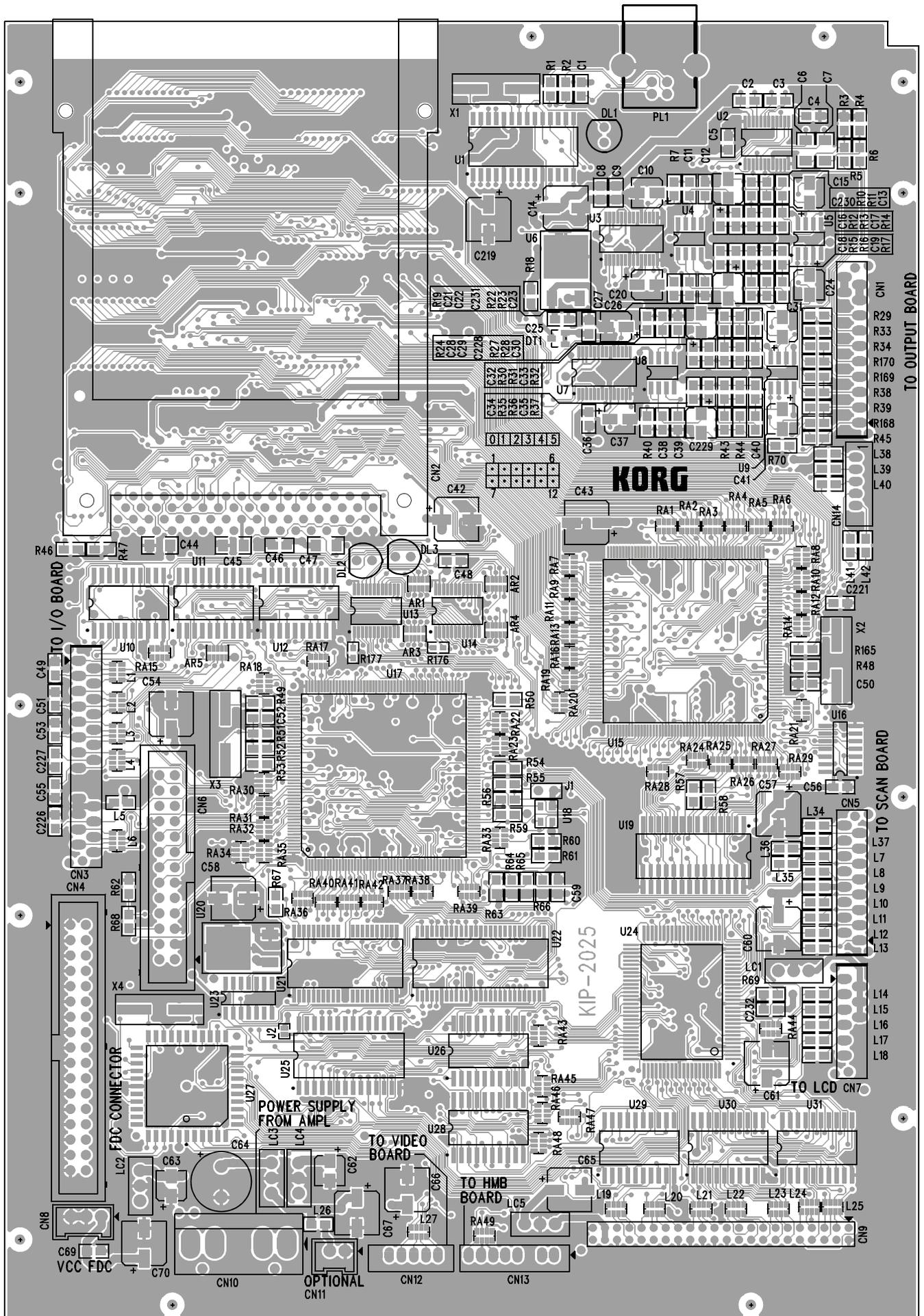


# MAIN BOARD KIP-2025 SCHEMATIC DRAWING (ASIC)

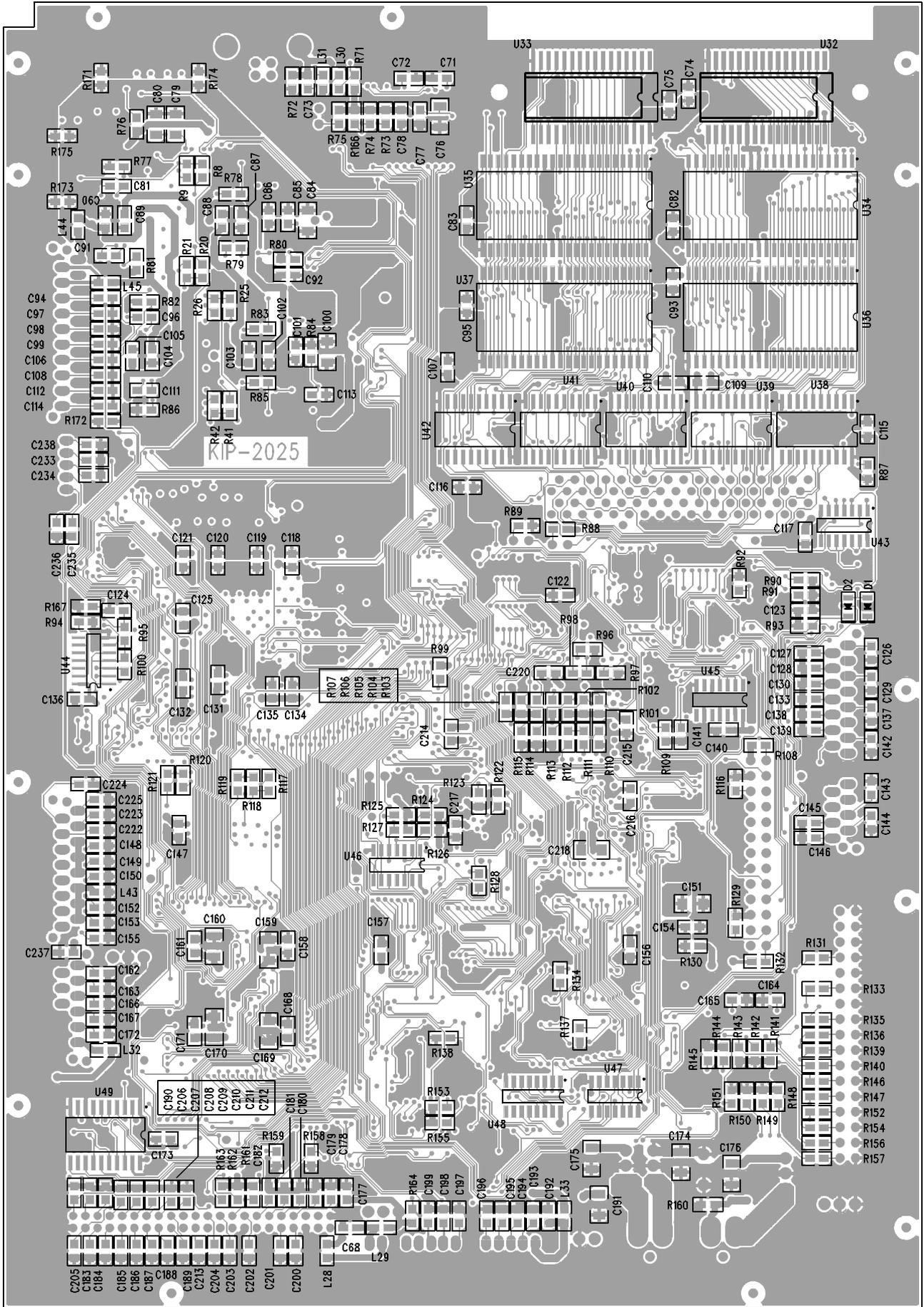


TO LCD

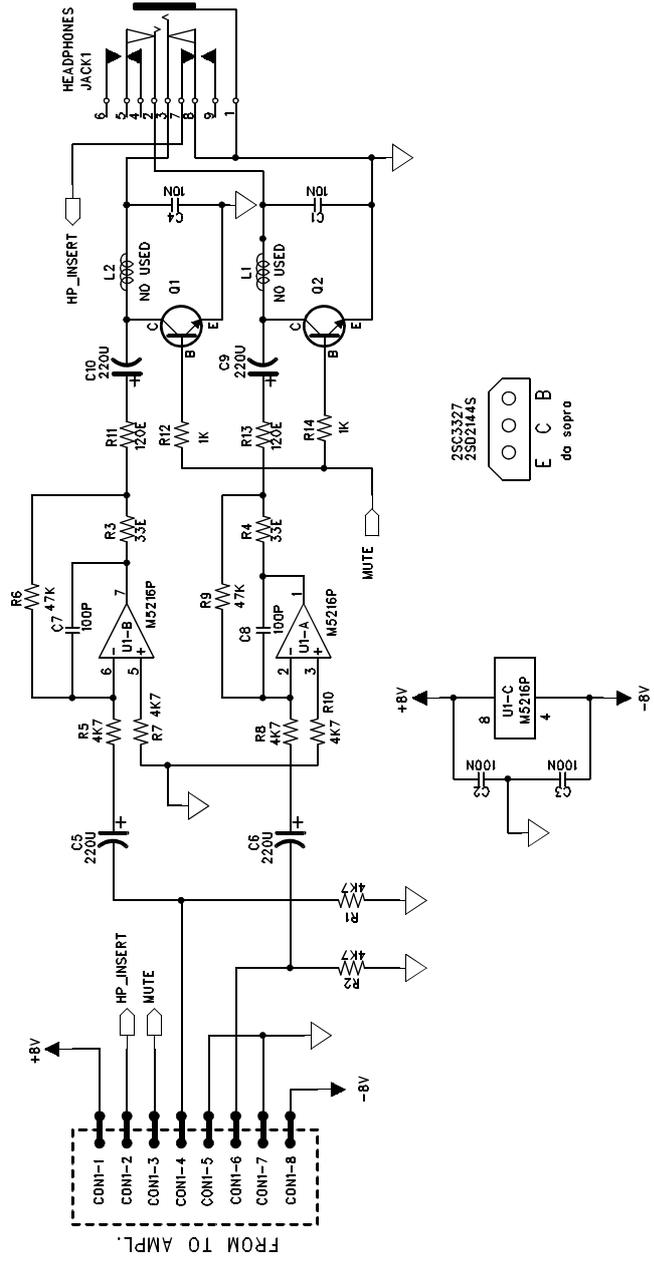
# MAIN BOARD KIP-2025 TOP SIDE



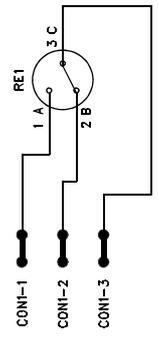
# MAIN BOARD KIP-2025 BOTTOM SIDE



# PHONE BOARD KIP-2031 SCHEMATIC DRAWING



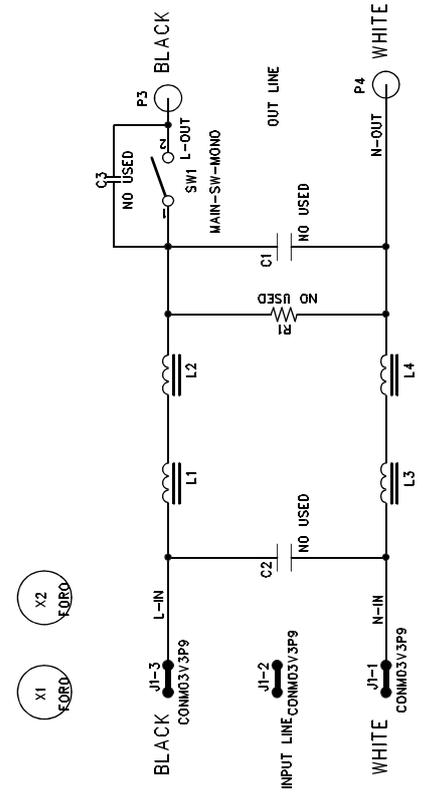
# ENCODER KIP-2034 SCHEMATIC DRAWING



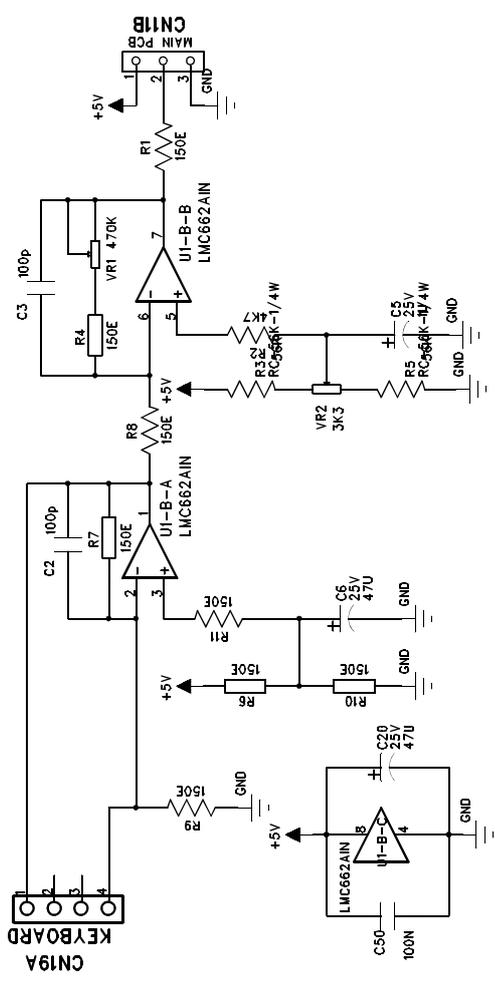
# PHONE BOARD KIP-2031 SCHEMATIC DRAWING

# ENCODER KIP-2034 SCHEMATIC DRAWING

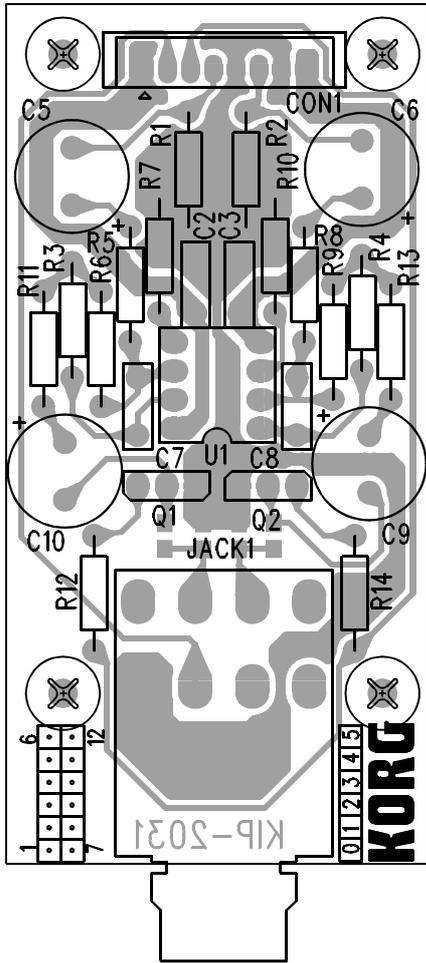
# MAIN FILTER KIP-2038 SCHEMATIC DRAWING



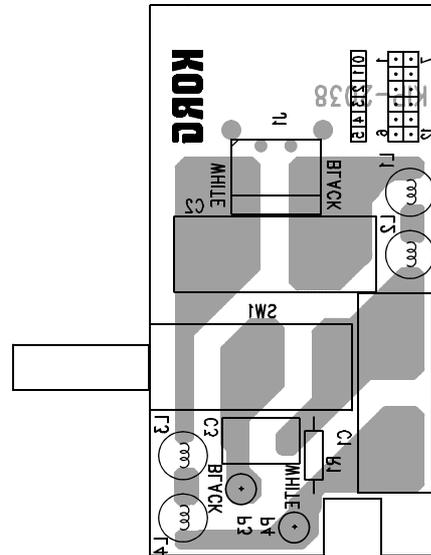
# AFTERTOUCHE KIP-2006 SCHEMATIC DRAWING



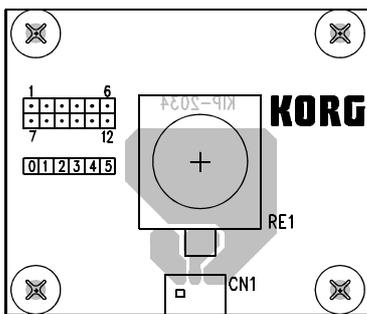
# PHONE BOARD KIP-2031 COMPONENT SIDE



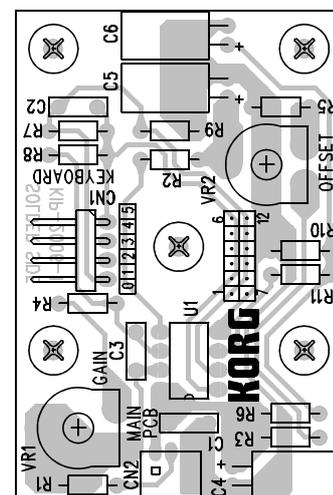
# MAIN FILTER KIP-2038 COMPONENT SIDE



# ENCODER KIP-2034 COMPONENT SIDE



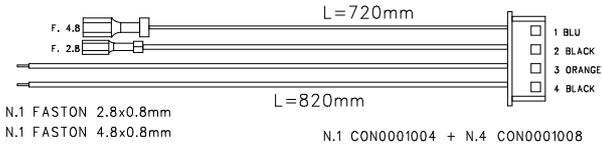
# AFTERTOUCH KIP-2006 COMPONENT SIDE



# HARNESSES (FOR Pa80 UNLESS OTHERWISE SPECIFIED)

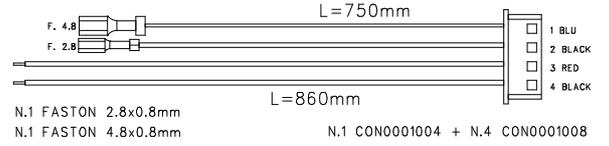
CODE: RIL0001121

SPEAKER DX



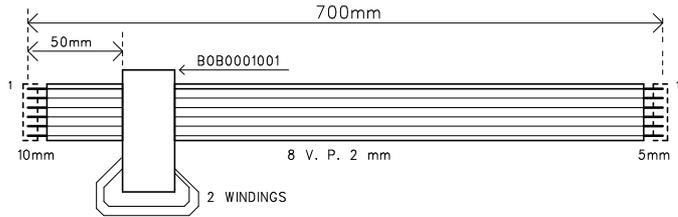
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SPEAKER SX



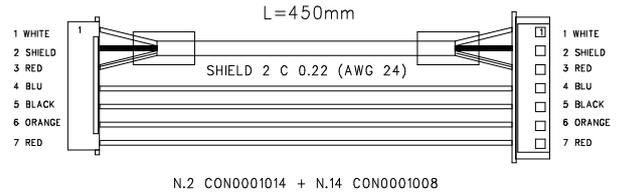
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HEADPHONE



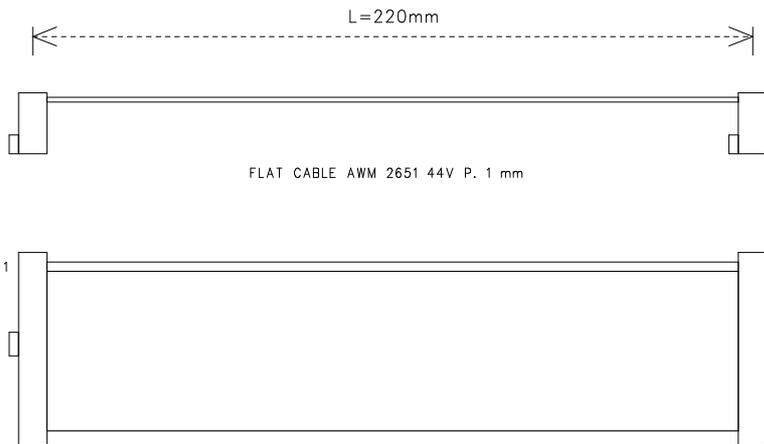
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MAIN BOARD POWER AMPLIFIER



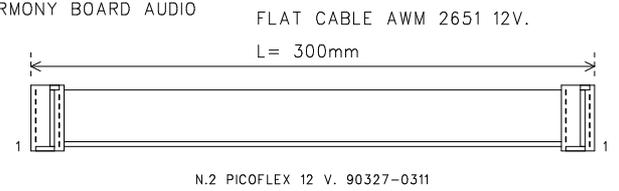
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HARD DISK



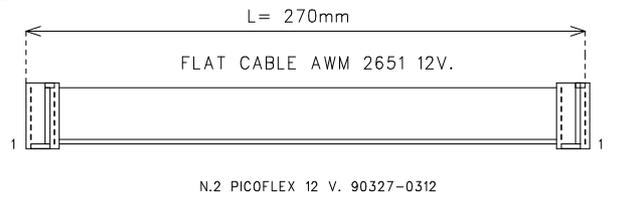
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HARMONY BOARD AUDIO



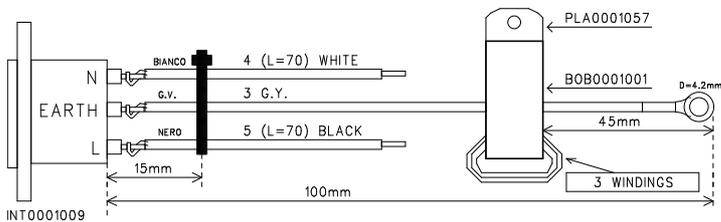
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LCD



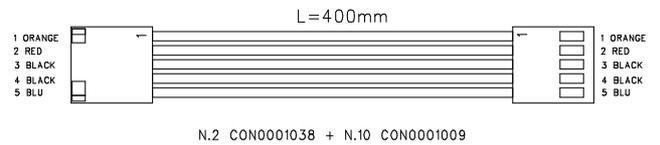
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POWER



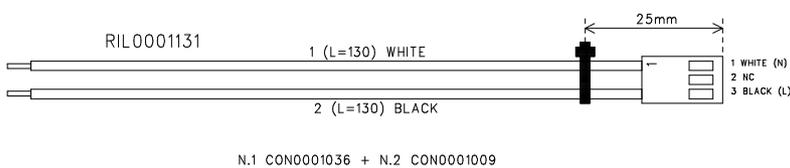
CODE: RIL0001120

MAIN BOARD/POWER AMPLIFIER



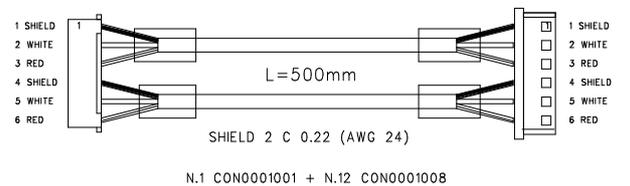
CODE: RIL0001131

POWER



CODE: RIL0001124

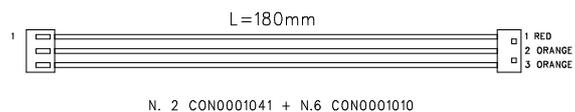
POTENTIOMETERS



# HARNESSES (FOR Pd80 UNLESS OTHERWISE SPECIFIED)

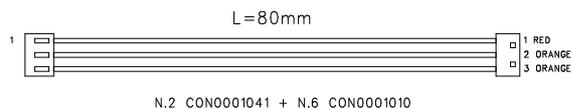
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AFTERTOUCH



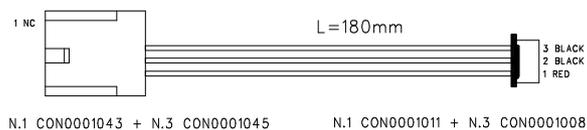
CODE: RIL0001126

ENCODER



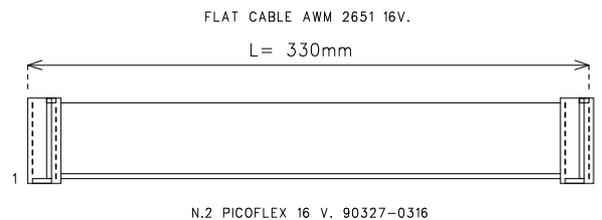
CODE: RIL0001127

FDD/MAIN BOARD



CODE: RIL0001141

LCD SWITCH



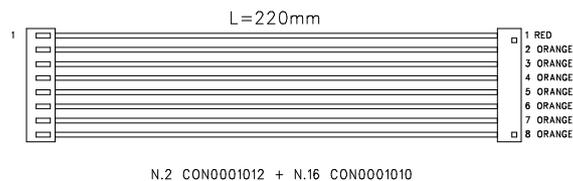
CODE: RIL0001063

GROUND CABLE



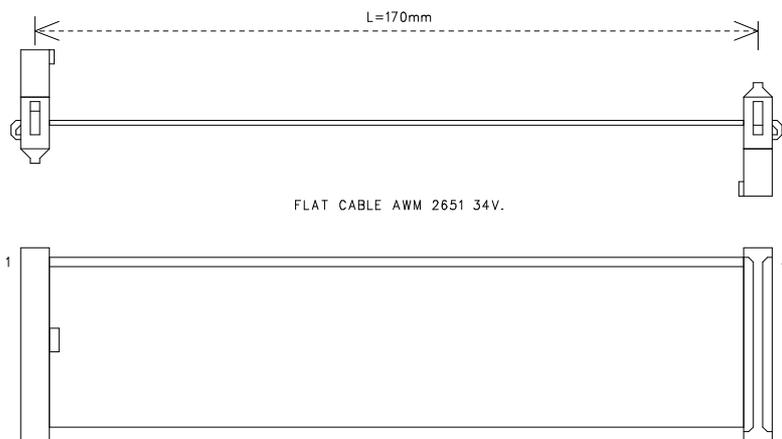
CODE: RIL0001129

HARMONY/MAIN BOARD



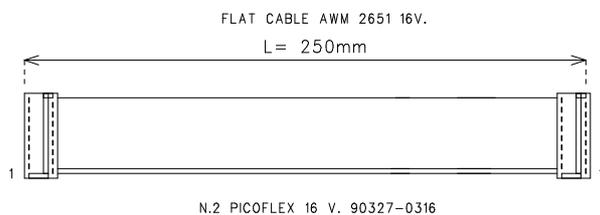
CODE: RIL0001138

FDD/MAIN BOARD



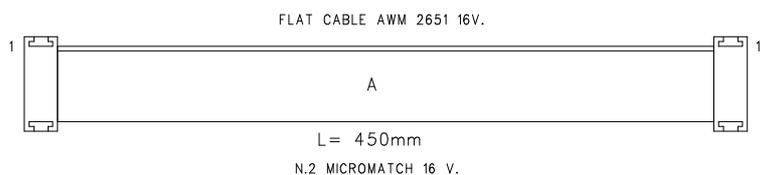
CODE: RIL0001132

SCAN MAIN BOARD



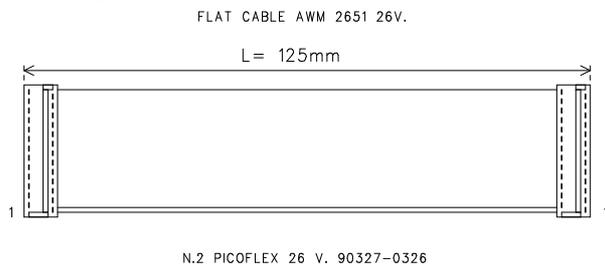
CODE: RIL0001137

KEYBOARD A/MAIN BOARD



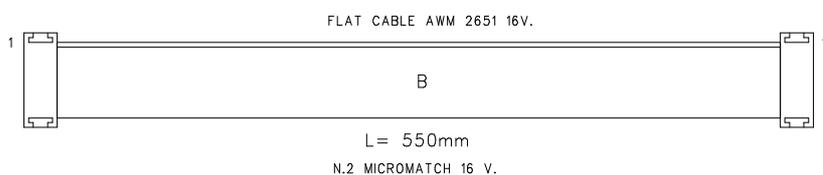
CODE: RIL0001133

CHECK SIGNAL



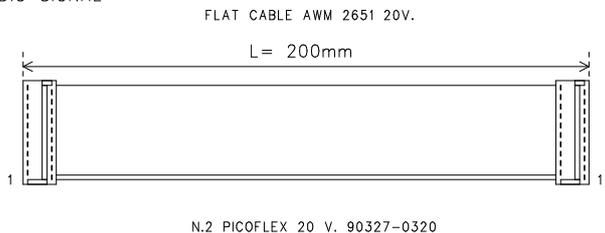
CODE: RIL0001138

KEYBOARD B/MAIN BOARD



CODE: RIL0001134

AUDIO SIGNAL



# HARNESSES (FOR Pd80 UNLESS OTHERWISE SPECIFIED)

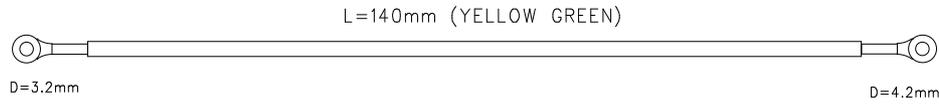
RIL0001130

GROUND CABLE



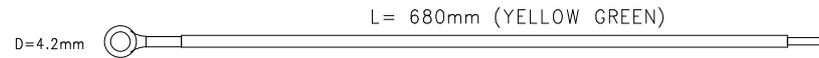
RIL0001066

GROUND CABLE



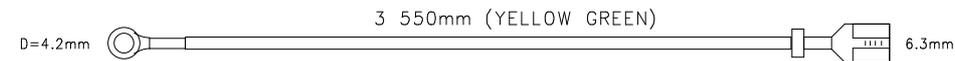
RIL0001162

GROUND CABLE



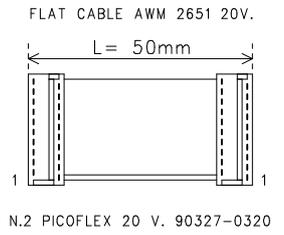
RIL0001163

GROUND CABLE



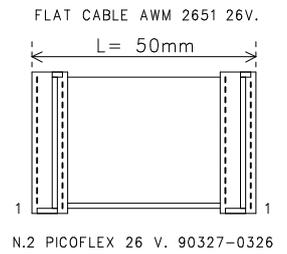
RIL0001136

PANEL/CONTROLLER



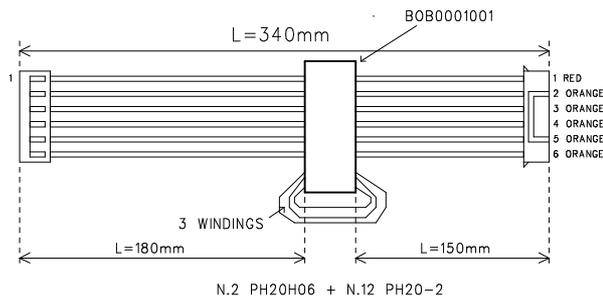
RIL0001135

PANEL/CONTROLLER



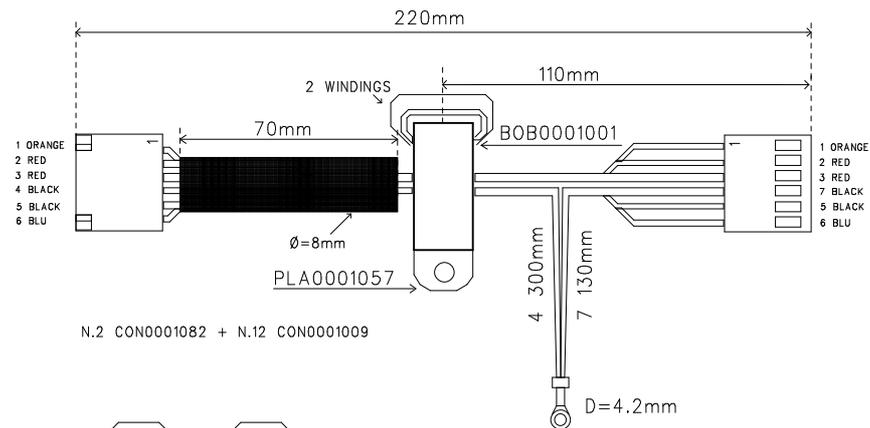
RIL0001143

VIDEO BOARD



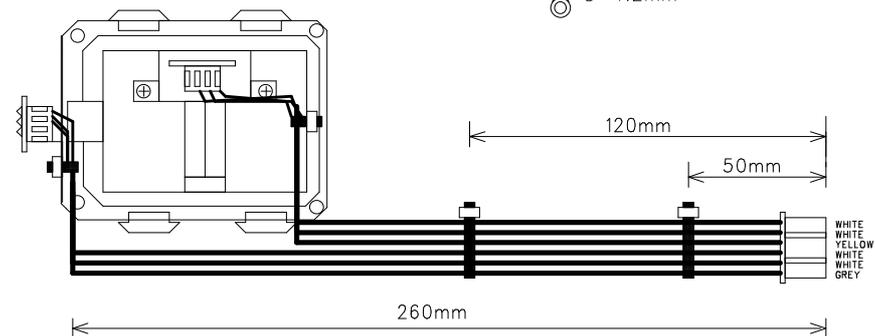
RIL0001118

PTSC65/AMPLIFIER



FDD0001014

JOYSTICK



# Pa80 PART LIST

## PART LIST ELECTRIC COMPONENTS

CODE	PART-TYPE	DESCRIPTION	QTY
GRA0002014	PCB ASSEMBLY KIP-2014	PANEL BOARD	1
GRA0002027	PCB ASSEMBLY KIP-2027	PANEL CONTROLLER	1
GRA0002028	PCB ASSEMBLY KIP-2028	OUTPUT BOARD	1
GRA0002030	PCB ASSEMBLY KIP-2030	DIGITAL AMPLIFIER	1
GRA0002031	PCB ASSEMBLY KIP-2031	HEADPHONE BOARD	1
GRA0002034	PCB ASSEMBLY KIP-2034	ROTARY ENCODER	1
GRA0002025	PCB ASSEMBLY KIP-2025	MAIN BOARD	1
GRA0002038	PCB ASSEMBLY KIP-2038	MAIN FILTER	1
GRA1002006	PCB ASSEMBLY KIP-2006	AFTERTOUCHE	1

## PART LIST PANEL BOARD KIP-2014

CODE	PART-TYPE	REFERENCE	QTY
DIX0005300	SIGNAL DIODE 1 N 4148	D1-70	70
INT0001008	SWITCH	SW1-70	70
LED0001002	RED LED 2mm WITH SPACER	DL1-16 DL18-33	32
LED0005002	BICOLOR LED 3mm red/green	DL17	1
POT0001003	LIN. POTENTIOMETER 10KBX2 PAR.P	VR1	1
POT0001004	LIN. POTENTIOMETER 10KB PAR.POL	VR2-3	2
POT0001008	LIN. POTENTIOMETER 10KB 45mm	VR4	1
TRS0001001	NPN DIGITAL TRANSISTOR	Q1-5	5

## PART LIST PANEL CONTROLLER KIP-2027

CODE	PART-TYPE	REFERENCE	QTY
BOB0005002	EMI FERRITE BLM21B102SPT	L1-85	85
CIN0002012	I.C. TC74HC138 AFN SMD	IC2 IC4-5	3
CIN0002041	I.C. SW/LED/KBD SCANNER (NKS3)	IC1	1
CIN0002043	I.C. HCF74HC4053D SMD	IC3	1
DIX0006000	DOUBLE DIODE SMD DA204KT146	DD1-2	2
DIX0006003	DIODE SMD RLS-4148	D1-12	12
INT0001008	SWITCH	SW1-12	12
LED0001002	RED LED 2mm WITH SPACER	LD1-8 LD10	9
LED0005002	BICOLOR LED 3mm red/gree	DL1	1
QUA0005003	CER. RESONATOR 16 Mhz 3 PIN	X1	1
TRS0002001	NPN TRANSISTOR DTC114EKA SMD	Q1-3	3
TRS0002002	PNP TRANSISTOR DTA114EKA SMD	Q4-11	8

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**UD4** = UPPER CASE DISASSEMBLY 4 **PA** = POWER AMPLIFIER **PSS** = POWER SWITCHING SUPPLY  
**MB** = MAIN BOARD GROUP **FD** = FLOPPY DISK GROUP **OB** = OUTPUT BOARD

## PART LIST OUTPUT BOARD KIP-2028

CODE	PART-TYPE	REFERENCE	QTY
BOB0005002	EMI FERRITE BLM21B102SPT	L1-6	6
CIN0001008	I.C. INVERTER O.C. 74HC05	IC3	1
CIN0001011	DUAL TRANSCEIVER M5M34050P	IC6	1
CIN0001012	I.C. PC-910K PH.COUPLER	IC1	1
CIN0001016	I.C. 74HC4052 MUX/DEMUX	IC8 IC11-12	3
CIN0001017	I.C. MJM4580D DUAL LOWNOISE OP.A	IC2 IC4-5 IC7 IC9-10	6
DIX0005300	SIGNAL DIODE 1 N 4148	D1-19	19
DIX0005301	ZENER DIODE VZ 4.7 V	DZ1-2	2
POT0001005	ROT. POTENT. C.L.10KC H 6.5 OR	VR1-2	2
TRS0001001	NPN DIGITAL TRANSISTOR	Q6-9	4
TRS0001008	NPN BIPOL. TRASISTOR 2SD2144S	Q1-4	4

## PART LIST DIGITAL AMPLIFIER KIP-2030

CODE	PART-TYPE	REFERENCE	QTY
BOB0001004	COIL 10uH TSL0809RA-100K2R2	LC1-4	4
BOB0005001	COIL VK200 2,0 SPIRE	L1	1
CIN0001003	GRAFIC EQUALIZER M5243AP09	IC3	1
CIN0002042	I.C. STEREO LOUDNESS BA3570F-E2	IC6	1
DIX0005002	RECTIFIER DIODE 1N 4002	D6-7	2
DIX0005004	SHOTTLY DIODE 1N5819 40V	D2-5	4
DIX0005300	SIGNAL DIODE 1 N 4148	D1 D8	2
DIX0005301	ZENER DIODE VZ 4.7 V	D10	1
FER0001089	I.C. HOLDER POWER AMPLI.	PA	1
FER0001096	AMPLIFIER HEATSINK	PA	1
FER0001107	RECTIFIER HEATSINK 7141D	X6	1
TRS0001002	PNP DIGITAL TRANSISTOR	Q1	1
TRS0001010	POS. REG. 1A +8 7808	IC5	1
TRS0001011	NEG. REG. 1A -8 7908	IC4	1
TRS0001012	DIGITAL AMPLIFIER TA2020-020	IC1	1
TRS0005002	PNP TRANSISTOR BC 558	Q2	1

## PART LIST HEADPHONE BOARD KIP-2031

CODE	PART-TYPE	REFERENCE	QTY
BOB0005002	EMI FERRITE BLM21B102SPT	L1-2	2
CIN0001009	DUAL HEADPH. OP.M5216P	U1	1
TRS0001008	NPL BIPOLAR TRASISTOR 2SD2144S	Q1-2	2

## PART LIST ROTARY ENCODER KIP-2034

CODE	PART-TYPE	REFERENCE	QTY
INT0001006	INCREMENTAL ENCODER	RE1	1

**FV** = FULL VIEW **D** = Pa80 DISASSEMBLY **LD1** = LOWER CASE DISASSEMBLY 1 **LD2** = LOWER CASE DISASSEMBLY 2  
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**UD4** = UPPER CASE DISASSEMBLY 4 **PA** = POWER AMPLIFIER **PSS** = POWER SWITCHING SUPPLY  
**MB** = MAIN BOARD GROUP **FD** = FLOPPY DISK GROUP **OB** = OUTPUT BOARD

PART LIST MAIN BOARD KIP-2017

CODE	PART-TYPE	REFERENCE	QTY
BOB0005002	EMI FERRITE BLM21B102SPT	L5 L7-18 L26 L28 L32-37 R5-6 R29 R33-34 R38-39 R45 R165	30
BOB0005003	FERRITE DST310-55Y5S223S50	LC1-5	5
BOB0005004	ARRAY IND.BLA3216A102S4 SMD	L1-4 L6 L19-25 L27 RA49	14
CIN0002006	I.C. PCM1716E SMD	U3 U7	2
CIN0002025	I.C. GM82C765BS-44 (F.D.C)	U27	1
CIN0002026	I.C. SN74AHC04D HEX.UND.	U44-45	2
CIN0002027	I.C. TC74HC02AFN QU.2INP	U16	1
CIN0002028	I.C. TC74LVX4245FS TRANSCE	U13-14	2
CIN0002029	I.C. TC74VHC21FN	U46	1
CIN0002030	I.C. SN74AHC32D	U43	1
CIN0002031	I.C. SN74AHC374DW	U12	1
CIN0002032	I.C. SN74AHCT04D	U47	1
CIN0002033	I.C. SN74AHCT139D	U48	1
CIN0002034	I.C. SN74AHCT244DW	U10-11 U26 U28-29 U40-42 U49	9
CIN0002035	I.C. SN74AHCT245DW	U30-31 U38-39	4
CIN0002036	I.C. FSC74LVX32M QUA.2-INP	U23	1
CIN0002037	I.C. TGL96 MB87F1710-PFV-S	U15	1
CIN0002038	I.C. PCM1800 20bit CONV.	U2	1
CIN0002039	I.C. MICRO 32b.XCF5307FT66B	U17	1
CIN0002040	I.C. NJM4580M OP.AMP.	U4-5 U8-9	4
CIN0003013	I.C. GM76C256CLLFW-55	U32-33	2
CIN0003016	I.C. MX23C6410MC-10 BKOL	U37	1
CIN0003017	I.C. MX23C6410MC-10 BKOH	U36	1
CIN0003018	I.C. MX23C6410MC-10 BK1L	U35	1
CIN0003019	I.C. MX23C6410MC-10 BK1H	U34	1
CIN0003020	I.C. MBCG46183-205(MCM99)KORG IT	U24	1
CIN0003021	I.C. OTP MX27L512MC-12	U25	1
CIN0003022	NAND FLASH TC58V64AFT	U21	1
CIN0003023	I.C. DRAM KM48C512DT-L6(4MX8)	U19	1
CIN0003025	IC. SDRAM 64M GM72V661641CT-7J	U22	1
CIN0004005	RES. GEN.3,3V ETC811SUC	U18	1
QUA0006003	CER. RES. SMD HCM49 6MHz	X1	1
QUA0006004	CER. RES. SMD HCM49 16MHz	X4	1
QUA0006005	CER. RES. SMD HCM49 24.576MHz	X2	1
QUA0006006	CER. RES. SMD HCM49 33MHz	X3	1
TRS0002006	REG. +5V 0.5A BA178M05FP	U6	1
TRS0002007	REG. +3.3V 0.5A BA033FP	U20	1
VTA0001065	SCREWS M2X8 TC Zn	Y1-4	4

**FV** = FULL VIEW **D** = Pa80 DISASSEMBLY **LD1** = LOWER CASE DISASSEMBLY 1 **LD2** = LOWER CASE DISASSEMBLY 2  
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**MB** = MAIN BOARD GROUP **FD** = FLOPPY DISK GROUP **OB** = OUTPUT BOARD

**PART LIST MAIN FILTER KIP-2038**

CODE	PART-TYPE	REFERENCE	QTY
BOB0005001	COIL VK200 2,0 SPIRE	L1-4	4
INT0001012	POWER SWITCH SS-160-7-A	SW1	1

**PART LIST AFTERTOUCHE BOARD KIP-2006**

CODE	PART-TYPE	REFERENCE	QTY
CIN0001004	INT.LMC662ACN OP.RAIL TR.	U1-B	1
TRX0005001	ORIZ. TRIMMER P5mm 3k3	VR2	1
TRX0005002	ORIZ. TRIMMER P5mm 470k	VR1	1

**PART LIST HARNESSSES**

CODE	PART-TYPE	REFERENCE	QTY
RIL0001119	ALIM. INPUT	PSS	1
RIL0001131	ALIM. OUTPUT	PSS	1
RIL0001118	PT65C/AMP.	LD1	1
RIL0001120	ALIM/CPU	LD1	1
RIL0001121	DX SPEAKER	LD1	1
RIL0001122	SX SPEAKER	LD1	1
RIL0001123	IMP. AMPLI.-B	LD1	1
RIL0001124	POT.VOL.-B	UD1	1
RIL0001125	AFTER TOUCH	UD3	1
RIL0001126	CON. DIAL	UD3	1
RIL0001127	ALIM.FDD/CPU	UD1 MB	1
RIL0001130	AWG L100	PSS	1
RIL0001132	SCAN/CPU	UD2 UD3	1
RIL0001133	SIGNAL	UD1 MB	1
RIL0001134	AUDIO	UD1 MB	1
RIL0001135	PANEL-A	UD3	1
RIL0001136	PANEL-B	UD3	1
RIL0001137	KEYBOARD /CPU-A	UD3	1
RIL0001138	KEYBOARD/CPU-B	UD3	1
RIL0001139	FDD/CPU	UD1 MB	1
RIL0001140	LCD	UD2	1
RIL0001141	LCD SWITCH	UD3	1
RIL0001040	EURO MAIN CABLE		1
RIL0001129	INT.HB/CPU	UD2 MB	1
RIL0001142	INT.HMB SIG.	UD1 UD2 MB	1
RIL0001143	VIDEO BOARD CONNECTION	UD1 UD2 UD3	1
RIL0001115	FLAT L22 44 MSP2.0 PA20-08	UD2 MB	1
RIL0001066	AWG L 130 EC100	UD1 MB OB	2
RIL0001162	AWG HEADPHONE	LD1	1
RIL0001163	AWG MAIN BOARD	LD1	1
CAV0001008	FLAT CABLE 8V. HEADPHONE	LD1	1

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## PART LIST WOOD COMPONENTS

CODE	PART-TYPE	REFERENCE	QTY
LEG0001005	DX SPEAKER BOX PANEL	LD2	1
LEG0001006	SX SPEAKER BOX PANEL	LD2	1

## PART LIST METAL COMPONENTS

CODE	PART-TYPE	REFERENCE	QTY
FER0001090	SPEAKER NET	UD4	2
FER0001091	F.D.D. SUPPORT	FD	1
FER0001092	MAIN BOARD LOWER SHIELD	MB	1
FER0001093	MAIN BOARD UPPER SHIELD	MB	1
FER0001094	OUTPUT BOARD SUPPORT	OB	1
FER0001095	POWER SUPPLY SUPPORT	PSS	1
FER0001100	VIDEO BOARD COVER	UD1	1
FER0001038	MUSIC REST	FV	1
FER0001097	POWER SUPPLY GRID	LD1	1
FER0001098	TWEETER SUPPORT	LD1	2
FER0001116	H.D.D. COVER	LD2	1
FER0001099	UPPER CASE HOLDER	OB	1
FER0001114	H.D.D. SX SUPPORT	UD1	1
FER0001115	H.D.D. DX SUPPORT	UD1	1

## PART LIST PLASTIC COMPONENTS

CODE	PART-TYPE	REFERENCE	QTY
PLA0001081	RUBBER SWITCH	UD4	81
PLA0001091	START STOP SWITCH	UD4	1
PLA0001080	POTENTIOMETER KNOB	D	4
PLA0001085	DIAL KNOB	D	1
PLA0001052	BLACK MAIN SWITCH	LD2	1
PLA0001037	BASS REFLEX TUBE	LD2	2
PLA0002029	UPPER CASE	UD4	1
PLA0002030	LOWER CASE	LD1	1
PLA0001046	SMALL CABLE HOLDER	LD1 UD1 UD3 MB	8
PLA0001062	CABLE TIE FCV-100 PAN TY	LD1	2

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## PART LIST SCREWS

CODE	PART-TYPE	REFERENCE	QTY
VTA0001038	SCREW 3X8 TC PR TROP. SP	LD1 UD1 UD3	55
VTA0001037	SCREW 2,9X6,5TC SP SELFTHR. Zn	UD1 PA MB OB	14
VTA0001051	SCREW 3X13 TC PR Zn	LD1 LD2 UD1 UD2	16
VTA0001005	SCREW 3MX10 TC Zn	UD1 PA PSS	8
VTA0001039	SCREW 2.9X9.5TC SELFTHR. Zn SP	D UD1 UD3	10
VTA0001046	SCREW 3MX6 TC SELFTAPPING	FD PSS	6
VTA0001034	SCREW 4X20 TCPR Zn	LD1 LD2	27
VTA0001032	SCREW 3MX8 TC Zn	UD1 MB OB	5
VTA0001067	SCREW 3.5X16 TC AGG-BZ	D UD3	21
VTA0001047	SCREW 4.2x11 TFR Zn	LD1	1
VTA0001060	SCREW 2.9X9.5 TSP Zn	PSS	2
VTA0001040	SCREW 4,2X8 TFR SELFTHR. TROP. SP	LD1 LD2	9
VTA0001050	SCREW M4X8 TC SELFTAPPING	LD1 PSS	3
VTA0001004	SCREW 4X15 TFR Zn PR	D LD2	8
VTA0001023	M3 SELFLOCKING NUT	UD1	1
VTA0001068	SCREW 2.9X16 TC Zn	UD3	4
VTA0001045	M4 SELFLOCKING NUT	LD1	1
VTA0001011	GROVER Ø4mm	LD1 PSS	3
VTA0001033	SCREW 3X8 TC PR Zn	LD2	4

## OTHER PARTS

CODE	PART-TYPE	REFERENCE	QTY
ALT0001011	WOOFER -4	LD1	2
BOB0001001	FERRITE RT25-150-120-K5B	MB	3
TAS0001004	KEYBOARD TP9 WITH AFTERTOUCHE	UD3	1
TRA0004001	POWER SWITCHING SUPPLY PT65C	PSS	1
FEL0001059	HEADPHONE LABEL	LD1	1
FEL0001054	ADHESIVE FELT 80X7X4	MB	1
FEL0001029	ADHESIVE TAPE ART.389 3M 18m.m.	LD1 UD1 UD2 UD3 FD	1
FEL0001030	BUMPON 3M ART.SJ5023 NERO	LD2	6
FEL0001034	ADHESIVE RUBBER 1.5x13x1200	LD1	1
FEL0001035	ADHESIVE RUBBER 1.5X13X250	LD1	2
FEL0001052	ADHESIVE FELT 16X40X1	LD1	10
FEL0001040	ADHESIVE RUBBER 5X10X30	LD2	3
FEL0001022	FIBERFORM 62 TE 200X200x40	LD2	2
FEL0001055	AD-30M (177.2X182X4) FILTER	UD4	2
FEL0001056	BIADHESIVE 3M 969 BUFF 12m.m.	UD4	1,32
FEL0001057	FDD-HDD SHIELD	UD2	1
FEL0001058	ADHESIVE RUBBER 68X25X5	UD3 MB	3
FEL0002030	SERIAL NUMBER LABEL	LD2	1
FDD0002005	DISPLAY GROUP 901- RI.CO	UD4	1
FDD0001014	BLACK JOYSTICK	UD3	1
FDD0001001	FLOPPY D.D. LOW NOISE	FD	1

**FV** = FULL VIEW    **D** = Pa80 DISASSEMBLY    **LD1** = LOWER CASE DISASSEMBLY 1    **LD2** = LOWER CASE DISASSEMBLY 2  
**UD1** = UPPER CASE DISASSEMBLY 1    **UD2** = UPPER CASE DISASSEMBLY 2    **UD3** = UPPER CASE DISASSEMBLY 3  
**UD4** = UPPER CASE DISASSEMBLY 4    **PA** = POWER AMPLIFIER    **PSS** = POWER SWITCHING SUPPLY  
**MB** = MAIN BOARD GROUP    **FD** = FLOPPY DISK GROUP    **OB** = OUTPUT BOARD



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