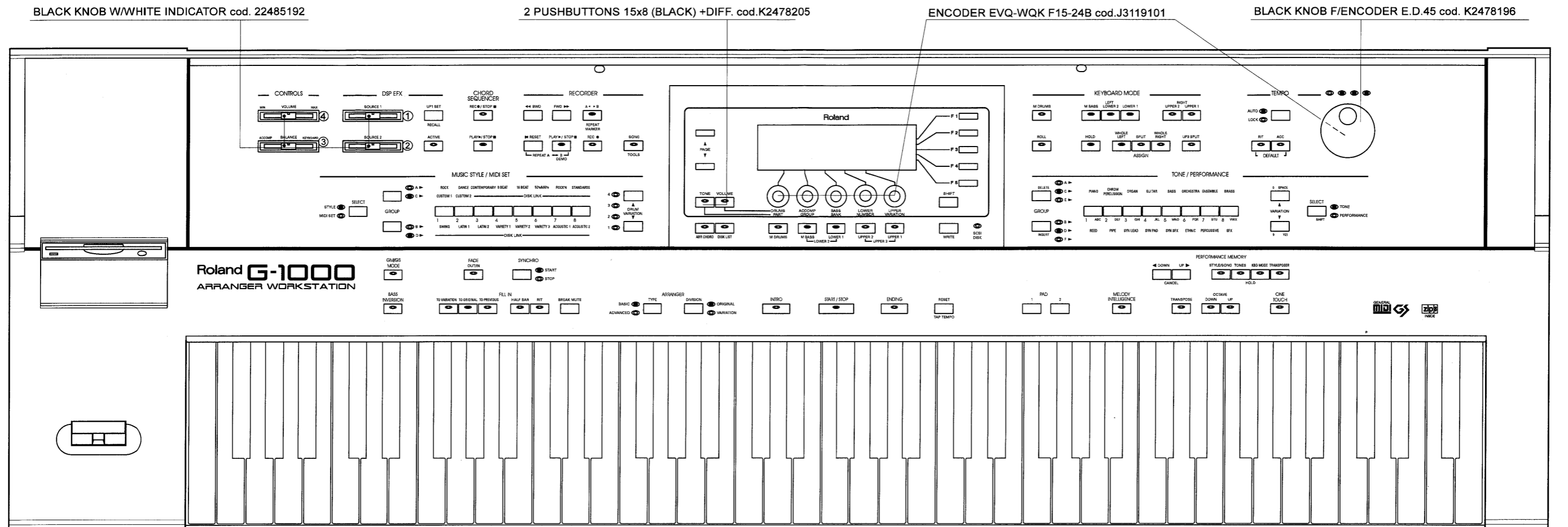


LOCATION OF CONTROLS



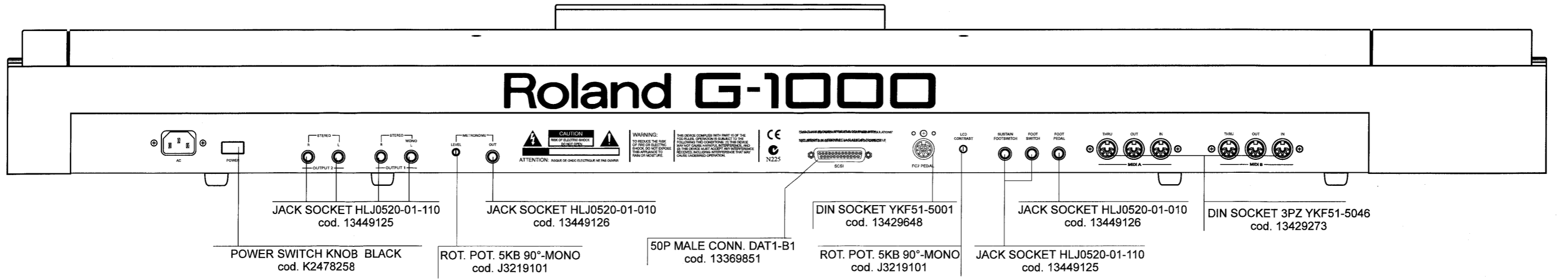
ZIP DRIVE

HEADPHONE

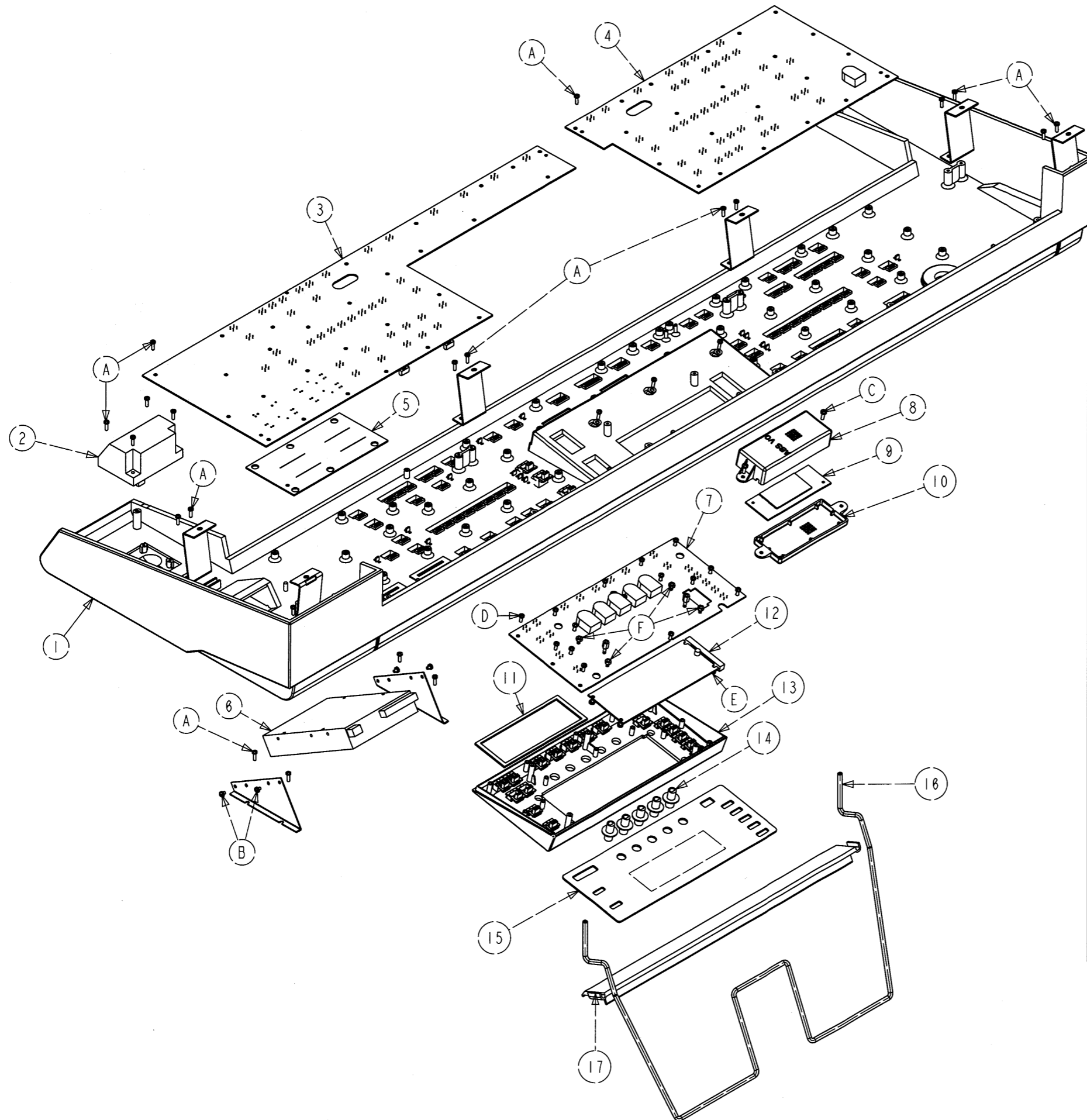
- BUTTON mm 29x8 (BLACK)+DIFF. cod. K2478199
- BUTTON GROUP mm 22x8 (BLACK)+DIFF. cod. K2478200
- BUTTON GROUP mm 15x8 (BLACK)+DIFF. cod. K2478201
- BUTTON GROUP(4) mm 15x8 (BLACK) cod. K2478203
- BUTTON GROUP(2) mm 15x8 (BLACK) cod. K2478206
- BUTTON mm 15x5 (BLACK) cod. K2478204
- LED DIODE TLHG4401-GREEN cod. 15029320RI
- LED DIODE TLHR4401-RED cod. 15029284RI
- LED DIODE 3 TLH04400-ORANGE cod. J5029110
- ①-② SLIDER POT. NFX-X10 B14 cod. 00671589
- ③ SLIDER POT. NNX-X10-B14 cod. 00671556
- ④ SLIDER POT. RS30111 cod. 00346178

JACK SOCKET YKB 21-5006
cod. 13449252

REAR VIEW

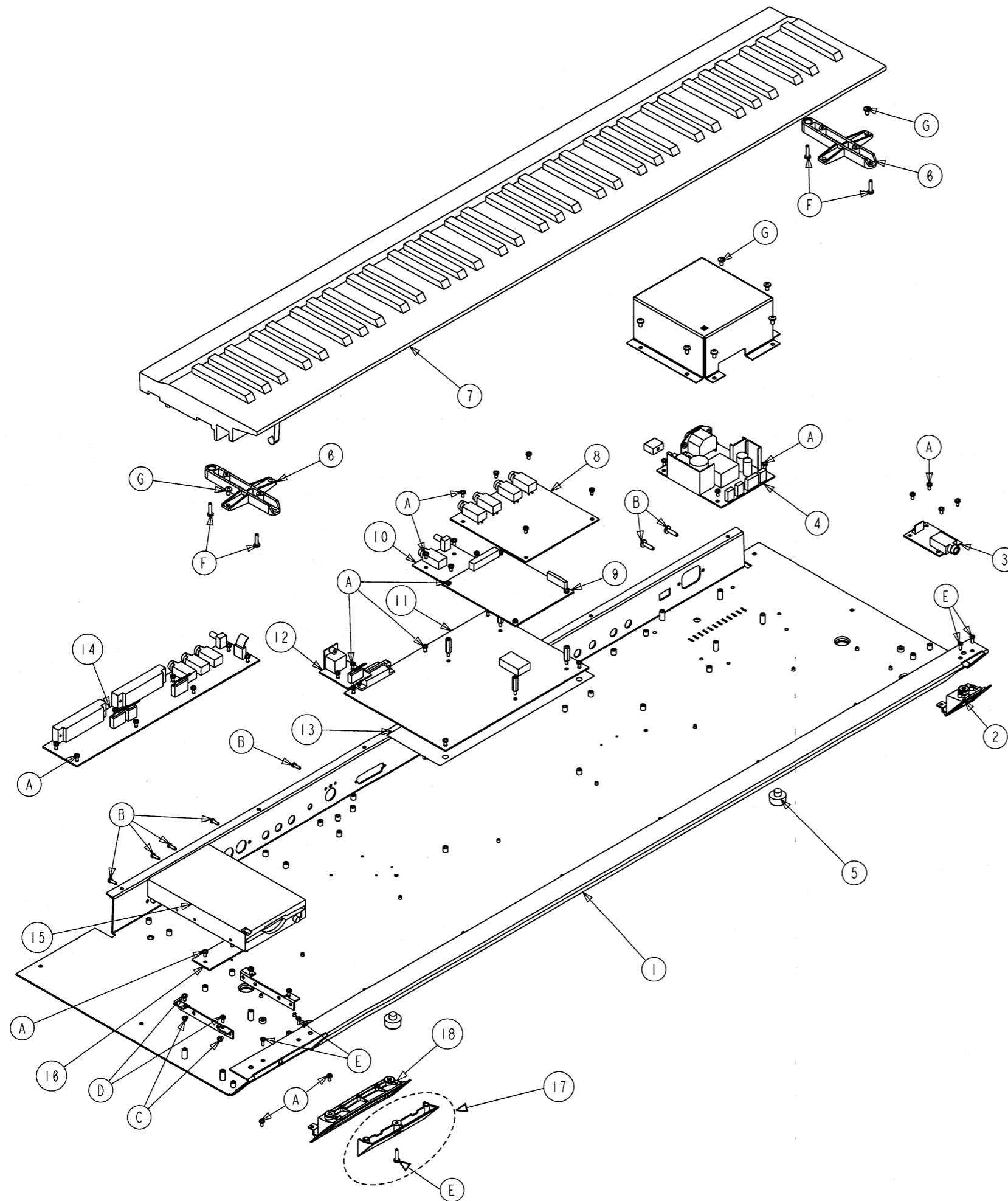


EXPLODED VIEW (TOP)



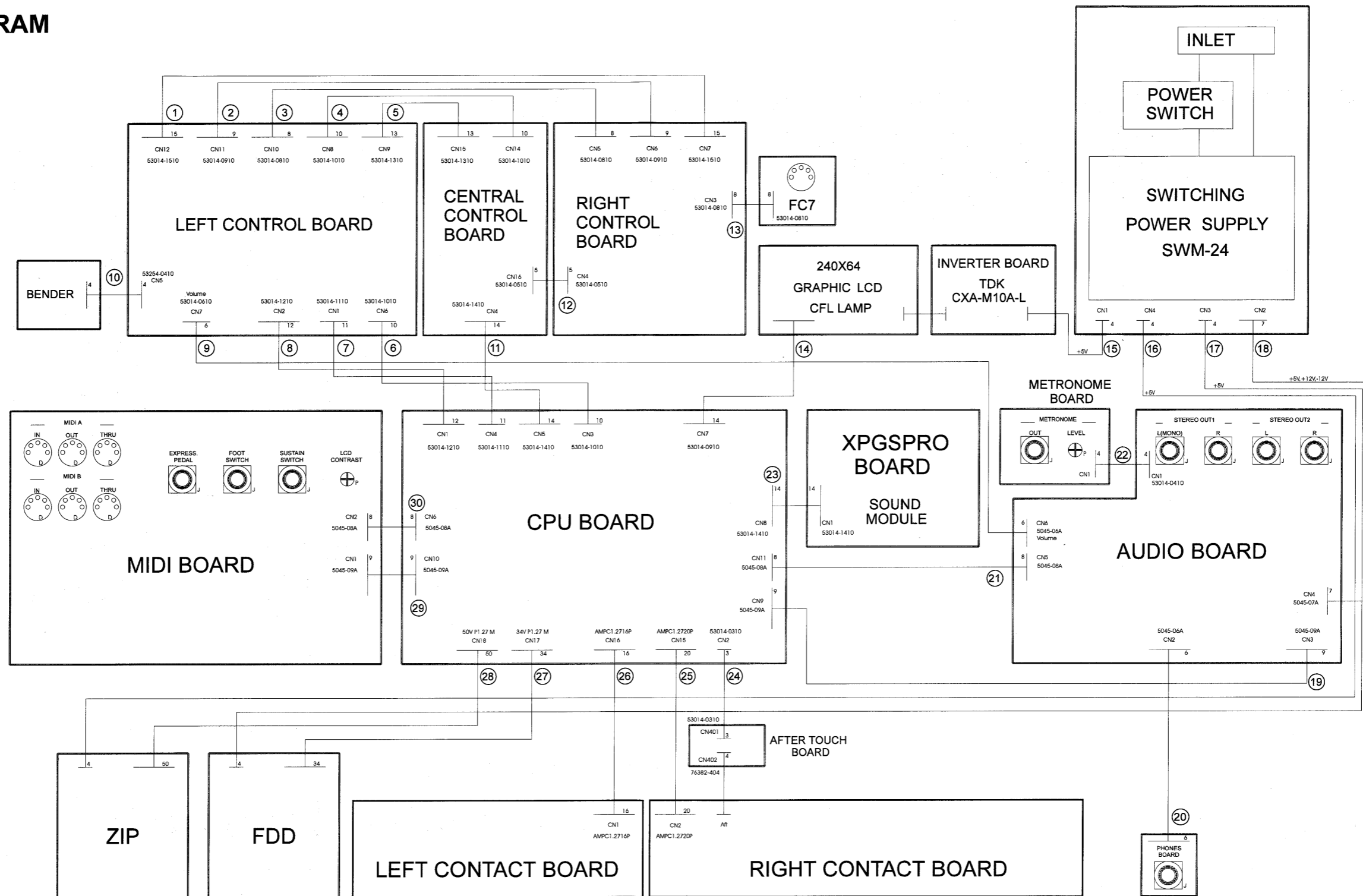
No.	PART NAMES	PART NUMBERS
1	SILK.+VARN.TOP CABINET	7700130000
2	TURBOLESS PITCH BENDER PBH0201	70584101
3	LEFT CONTROLS PCB ASSY	7700107000
4	RIGHT CONTROLS PCB ASSY	7700106000
5	ANTIDUST COVER PL30N	K2248132
6	FLOPPY D.DRIVER JU-257 A786P	J2409102
7	CENTRAL CONTROL PCB ASSY	7700108000
8	PROTECTING BOX COVER F/INVERTER	K2248127
9	INVERTER ASSY	7698708000
10	PROTECTING BOX BASE F/INVERTER	K2248128
11	ANTIDUST COVER (F/G-1000 LCD)	K224813301
12	LCD ASSY	7700111000
13	V+S.LCD CONTROL SUPPORT	7700131000
14	BLACK KNOB F/ENCODER E.D.18	K2478197
15	SILKSCREENED PLEXIGLASS	7700133000
16	MUSIC REST	K2128119
17	MUSIC SCORE HOLDER	22208320
	SCREW	
A	SCREW 2,9x10 TCTCPR TROP	J2289125
B	SELF LOCK.SCREW M3x6 TCTC H.6	J2289193
C	SELF LOCK.SCREW M3x10 TCTC H.6	J2289108
D	SELF TAP.SCREW 2,9x8 TCTCPRBZ	J2289126
E	SELF LOCK.SCREW M3x4 TCTC H.6	J2289111
F	NUT 3MA H.3	J2289113

EXPLODED VIEW (BOTTOM)



No.	PART NAMES	PART NUMBERS
1	VARN+SILK.BOTTOM CABINET	7700132000
2	HEADPHONE BLIND(BLACK)	K2248138
3	HEADPHONES ASSY	7697205000
4	SWITCHING POWER SUPPLY SWM24	K2458141
5	PRESSURE RUBBER SFF-018	J2359105
6	KEYBOARD SUPPORT	K1188128
7	76-KEY KEYBOARD ASSY TP/8S-AT	7699510000
8	AUDIO PCB ASSY	7700103001
9	XPGS-PRO PCB ASSY	7700102000
10	METRONOME PCB ASSY	7700105000
11	CPU FLASH PCB ASSY	7700101000
12	FC-7 CONNECTION ASSY	7700109000
13	MYLAR SHIELD MM 260x90	K2258115
14	MIDI ASSY	7700104000
15	INTERNAL SCSI ZIP DRIVER 100MB	J2409104
16	BOUNCE-TO-AFTERTOUCH ASSY	7699507000
17	PROTECTION F/ZIP DRIVER ASSY	7700136000
18	GRILL F/ZIP DRIVE	K2248136
SCREW		
A	SELF LOCK.SCREW M3x6 TCTC H6	J2289193
B	SELF TAP.SCREW 2,9x13 TCTCPR BR	J2289160
C	SELF LOCK.SCREW M3x4 TCTC H6	J2289111
D	SELF LOCK.SCREW M3x10 TCTC H6	J2289108
E	SELF TAP.SCREW 2,9x8 TCTCPRBZ	J2289126
F	SELF TAP.SCREW 3,5x16 TCTCPRBZ	J2289131
G	SELF LOCK.SCREW M4x7 TCTC T8	J2289135

WIRING DIAGRAM

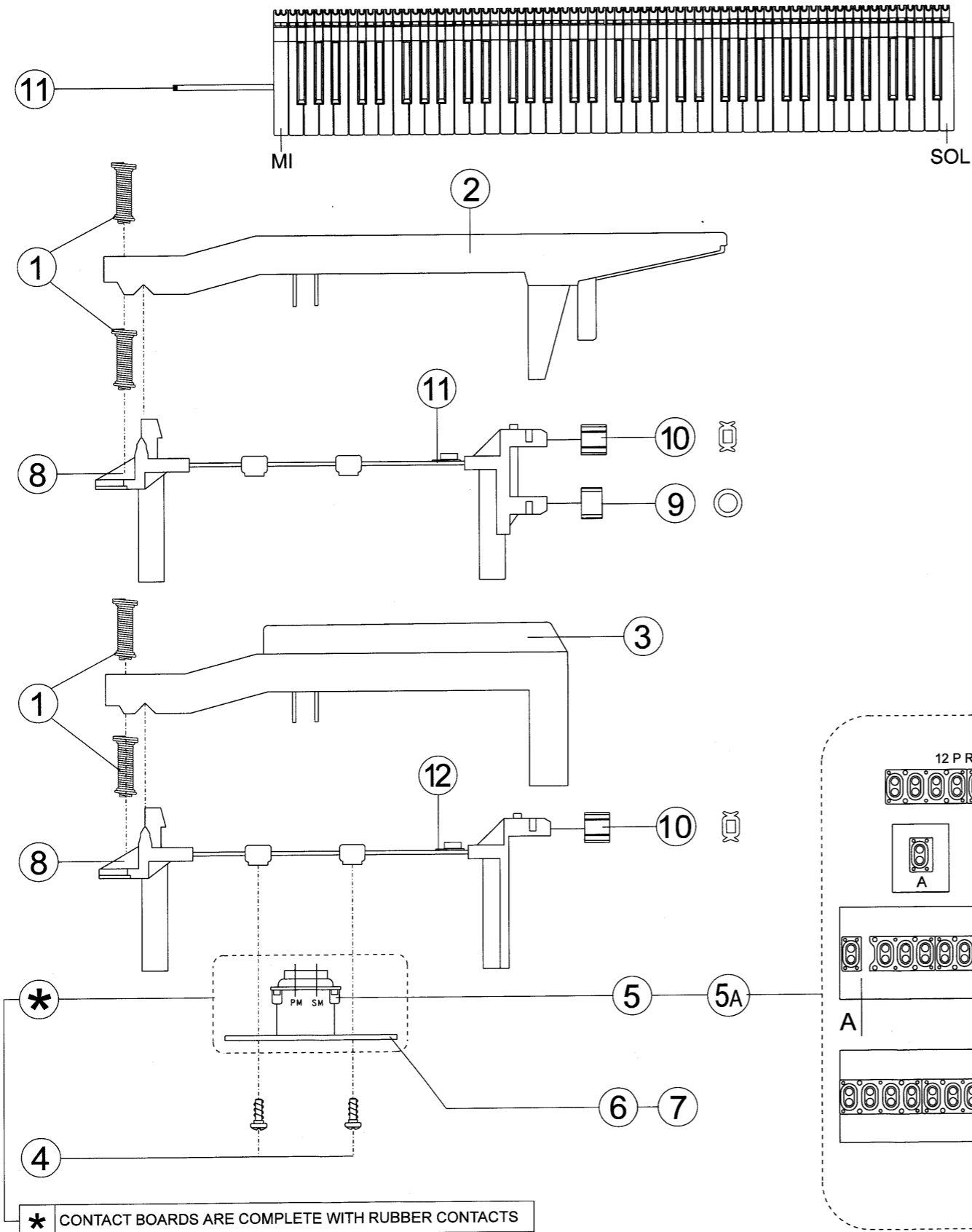


WIRING PARTS LIST

1	7700126000	15P CABLE ASSY	(44)	2C P.2	11	7700124000	14P CABLE ASSY	(28)	2C P.2	21	7697220001	8P CABLE	(32)	2C
2	7700119000	9P CABLE ASSY	(50)	2C P.2	12	7700118000	5P CABLE ASSY	(44)	2C P.2	22	7698907000	4P CABLE ASSY	(6)	2C P.2
3	7700115000	8P CABLE ASSY	(40)	2C P.2	13	7700116000	8P CABLE ASSY	(52)	2C P.2	23	7700123000	14P CABLE ASSY	(8)	2C P.2
4	7699418000	10P CABLE ASSY	(38)	2C P.2	14	7700122000	14P CABLE ASSY	(44)	2C P.2	24	7700112000	3P CABLE ASSY	(64)	2C P.2
5	7700127000	13P CABLE ASSY	(24)	2C P.2	15	K3468156	4P CABLE	(90)	2C D/D	25	K3468185	20P CABLE ASSY	(24)	2C
6	7700120000	10P CABLE ASSY	(72)	2C P.2	16	7700129000	3P CABLE ASSY	(132)	W(4PC+4PC)	26	K3468186	16P FLAT CABLE	(36)	2C
7	7700125000	11P CABLE ASSY	(58)	2C P.2	17	7700129000	3P CABLE ASSY	(132)	W(4PC+4PC)	27	K3468187	34P FLAT CABLE	(80)	2C
8	7700121000	12P CABLE ASSY	(48)	2C P.2	18	7697239001	7P CABLE ASSY	(16)	2C D/R	28	K3468183	50P FLAT CABLE	(76)	2C
9	7700117000	2P COAX. CBL ASSY	(96)		19	K3468171	9P CABLE	(22)	2C D/R	29	K3468184	9P CABLE	(36)	2C D/R
10	00783234	BENDER CABLE	(35)	(W4PC P.2)	20	K3468188	6P CABLE	(52)	2C D/R	30	K3468170	8P CABLE	(18)	2C D/R

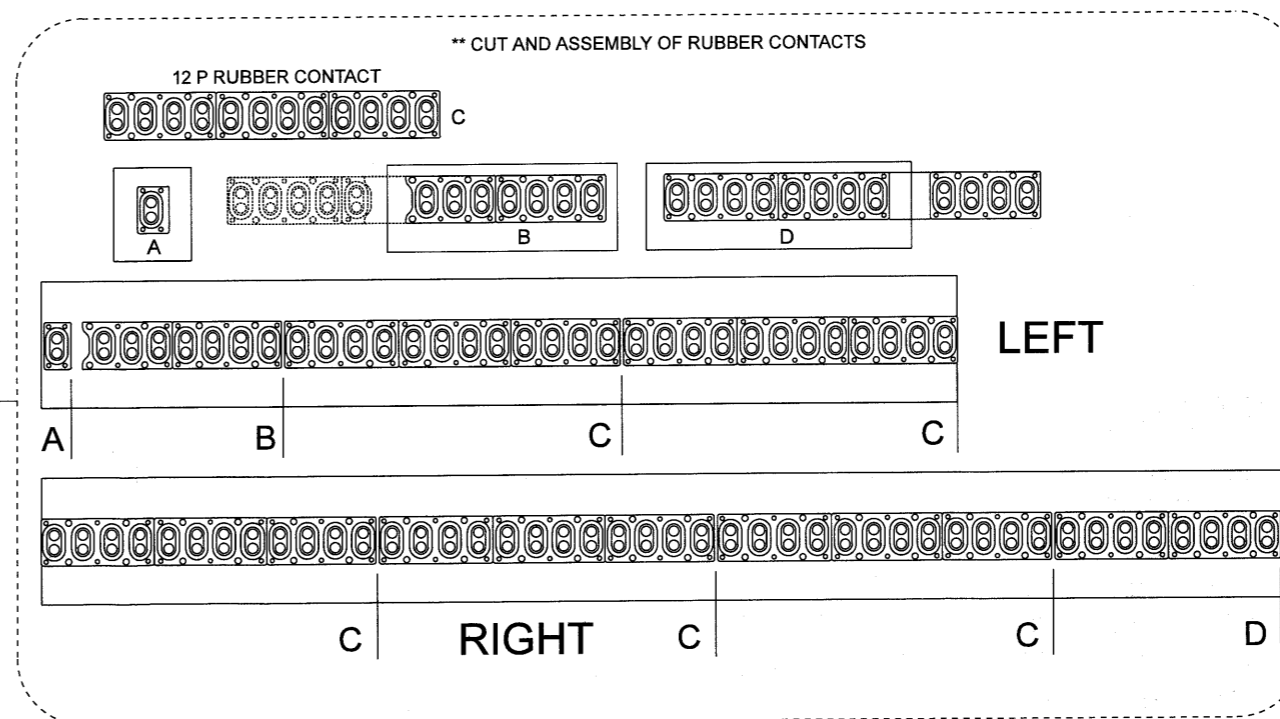
KEYBOARD PARTS LIST

76-KEY KEYBOARD TP/8S-AT code 7699510000



KEYBOARD PARTS LIST

Ref	Description	Code	n.
1	KEY SPRING gr60 or 122	J2179107	76
2	NATURAL KEY C8 (gr20) TP/8S-AT MI(I)	J2579171	1
	NATURAL KEY C (gr20) TP/8S-AT DO	J2579172	6
	NATURAL KEY D (gr20) TP/8S-AT RE	J2579173	6
	NATURAL KEY E (gr20) TP/8S-AT MI	J2579174	6
	NATURAL KEY F (gr20) TP/8S-AT FA	J2579175	7
	NATURAL KEY G (gr20) TP/8S-AT SOL	J2579176	6
	NATURAL KEY A (gr20) TP/8S-AT LA	J2579177	6
	NATURAL KEY B (gr20) TP/8S-AT SI	J2579178	6
	NATURAL KEY G2 (gr20) TP/8S-AT SOL(F)	J2579179	1
3	SHARP KEY (gr16) TP/8S	J257918001	31
4	SELF TAP SCREW 2,9x8mm TC TC PR BZ	J2289126	42
5	12P RUBBER CONTACT	22185238	7**
5A	1P CONDUCTIVE RUBBER LR13/1	7625920000	1**
6	LEFT CONTACT PCB ASSY+RUBBER	7695005000	1
7	RIGHT CONTACT PCB ASSY+RUBBER	7695004000	1
8	76-KEY KEYBOARD CHASSIS TP/8S-AT	J2579181	1
9	GUIDE BUSHING INFERIOR	J2359104	45
10	GUIDE BUSHING SUPERIOR	J2359109	76
11	SENSOR AFTER_TOUCH	J3169108	1



PARTS LIST G-1000 (117V/230V/230VE/240VA)

SAFETY PRECAUTIONS :

The parts marked Δ have safety-related characteristics. Use only listed parts for replacement.

CONSIDERATION ON PARTS ORDERING

When ordering any parts listed in the parts list, please specify the following items in the order sheet.

QTY	PART NUMBER	DESCRIPTION	MODEL NUMBER
Ex. 10	22575241	Sharp Key	C-20/50
15	2247017300	Knob (orange)	DAC-15D

Failure to completely fill the above items with correct number and description will result in delayed or even undelivered replacement.

NOTE : The parts marked "*" are new (Initial Parts). The parts marked Δ have Safety - Related characteristics. Use only listed parts for replacement.

<< EMI >> : Component for EMC.

Note : Replacement should be made on a unit basis. No replacements available for individual parts. Replacement only be a unit.

- CPU = CPU Board
- XPGS = XPGS PRO Board
- AB = AUDIO Board
- LCB = LEFT CONTROL Board
- RCB = RIGHT CONTROL Board
- CCB = CENTRAL CONTROL Board
- MIB = MIDI Board
- FC7 = FC7 Board
- PHB = PHONES Board
- MEB = METRONOME Board
- IB = INVERTER Board
- AFT = AFTER TOUCH Board
- LB = LEFT CONTACT Board/w Rubber C.
- RB = RIGHT CONTACT Board/w Rubber C.

- # 7699507000 BOUNCE-TO-AFTERTOUCH ASSY A-70/G-1000
- # 7700104000 MIDI ASSY G-1000
- # 7700105000 METRONOME PCB ASSY G-1000
- # 7700106000 RIGHT CONTROLS PCB ASSY G-1000
- # 7700107000 LEFT CONTROLS PCB ASSY G-1000
- # 7700108000 CENTRAL CONTROL PCB ASSY G-1000
- # 7700109000 FC-7 CONNECTION ASSY G-1000
- # [E] 7700102000 XPGS-PRO PCB ASSY G-1000
- # 7700103001 AUDIO PCB ASSY G-1000
- 7695004000 RIGHT CONTACT BOARD W/RUBBER ASSY
- 7695005000 LEFT CONTACT BOARD W/RUBBER ASSY

CASING

	K2128119	MUSIC REST	
	22208320	MUSIC SCORE HOLDER	
#	7700130000	SILK+VARN. TOP CABINET	G-1000
#	7700131000	V+S. LCD CONTROL SUPPORT	G-1000
#	7700132000	VARN+SILK.BOTTOM CABINET	G-1000
#	7700133000	SILKSCREENED PLEXIGLASS	G-1000
#	K2248136	GRILL F/ZIP DRIVE	G-1000
#	K2248138	HEADPHONE BLIND (BLACK)	G-1000

CHASSIS

#	K1188128	KEYBOARD SUPPORT	G-1000
	K2248127	PROTECTING BOX COVER F/INVERTER	
	K2248128	PROTECTING BOX BASE F/INVERTER	

KNOB BUTTON

	K2478196	BLACK KNOB F/ENCODER	E.D.45
	K2478197	BLACK KNOB F/ENCODER	E.D.18
	K2478199	BUTTON	MM 29X8+DIFF.BLACK
	K2478200	BUTTON GROUP	MM 22X8+DIFF. BLACK
	K2478201	BUTTON GROUP	MM 15X8+DIFF. BLACK
	K2478203	BUTTON GROUP (4)	MM 15X8 BLACK-
	K2478204	BUTTON	MM 15X5 BLACK
	K2478205	2 PUSHBUTTONS	MM15X8+DIFF.BLACK
	K2478206	BUTTON GROUP (2)	MM15X8 BLACK
#	K2478258	POWER SWITCH KNOB	BLACK
	22485192	BLACK KNOB W/WHITE INDICATOR	

SWITCH

#	1312975301	SWITCH EVQ-QSB 05K GR.160	on LCB / RCB / CCB
#	13159187	SLIDE SWITCH SSSS2-22-01	SW2, SW3 on CPU

JACK, SOCKET

	13429273	DIN SOCKET	3PZ YKF51-5046	JK1, JK5 on MIB
	13449125	JACK SOCKET	HLJ0520-01-110	JK2, JK3 on MIB / JK2 => JK5 on AB
	13449126	JACK SOCKET	HLJ0520-01-010	JK4 on MIB / JK1 on MEB
	13449252	JACK SOCKET	YKB 21-5006	JK1 on PHB
	13429648	DIN SOCKET	YKF51-5001	JK3 on FC7

DISPLAY UNIT

Note # 7700111000 LCD ASSY G-1000

DISK DRIVE UNIT

Note # J2409104 INTERNAL SCSI ZIP DRIVER 100MB
J2409102 FLOPPY D. DRIVER JU-257 A786P

Note : You can use also the FDD JU-257A 166P (J2409101) but before using it, BE CAREFUL AND SET IT as shown in the E-500 Service Notes (Page 4)

BENDER UNIT

Note 70564101 TURBOLESS PITCH BENDER PBH0201

KEYBOARD ASSY

7699510000 76-KEY KEYBOARD ASSY TP/8S-AT

NOTE : For details, refer to KEYBOARD PARTS LIST (Pag.6)

POWER SUPPLY UNIT

Note # K2458141 SWITCHING POWER SUPPLY SWM24

PCB ASSY

# [E]	7700101000	CPU FLASH PCB ASSY	G-1000
	7697205000	HEADPHONES ASSY	G800/G1000
	7698708000	INVERTER ASSY	E-500/G-1000

IC

	00900901	INVERTER MODULE CXA-M10AL		on IB
	15189210	I.C. BA 5218F	(OP AMP)	IC1, IC4 on AB
	J5259112	I.C. PCM69AU	DAC (RED LINE)	IC5, IC8 on AB
	15289402	I.C. TA 78L05F	(REGUL.+5V)	IC6 on AB
	15199904	I.C. M51953 BL	(STANDING)	IC11 on AB
	15289105	I.C. UPC 4570G	(OP AMP)	IC3, IC7, IC9, IC10 on AB / IC1 on CPU
#	J5259122	I.C. OPA 2237VA	FLAT	IC2 on CPU
	00343823	I.C. M60205-0601FP	(CUSTOM IC)	IC3 on CPU
#	K525814513	I.C. HD6437034AF20XX	FLAT	IC4 on CPU
	15219183	I.C. M51953 A STANDING	(RESET IC)	IC5 on CPU
	15259701	I.C. 74 HC 00	FLAT	CMOS
	15259885	I.C. TC7S32F	CMOS	IC7, IC14 on CPU
	K5258109	I.C. 74 HC 74	FLAT	CMOS
#	7700134000	I.C. ENC6 IC9 CPU	G-1000	IC8 on CPU
	00129278	I.C. SSC1080 FOB	(CUSTOM IC)	IC9 on CPU
	J5259116	I.C. SED1335F0B	(LCD CONTROLLER)	IC10 on CPU
	J5259110	I.C. HM62256LFP-7T	FLAT	SRAM
	00788356	I.C. M38881M2-058FP		IC12 on CPU / IC5, IC8 on XPGS
	15259884	I.C. TC7S08F	MOS CMOS	IC13 on CPU
	15199780	I.C. HD63266FP-64A	FDC	IC15 on CPU / IC12 on XPGS
#	00893356	I.C. NCR53CR92	FLAT	IC16 on CPU
#	00893990	I.C. BH9595FP	FLAT	IC17 on CPU
#	7700110000	I.C. FLASH IC20 CPU	G-1000	IC18 on CPU
#	J5259120	I.C. HM5118160CJ-6	FLAT	IC20 on CPU
	15259887	I.C. TC7SU04F	FLAT	CMOS
	00232645	I.C. TC7W14F	FLAT	IC21 on CPU
	J5259001	I.C. 74 HC 04	FLAT	CMOS
	15249111	I.C. TC7WU04 F	FLAT	CMOS
#	01233590	I.C. ROM UPD23C32000AGX310		IC22 on CPU / IC18 on XPGS
#	01233634	I.C. ROM UPD23C32000AGX312		IC23 on CPU / IC14, IC19 on XPGS
#	01233667	I.C. ROM UPD23C32000AGX314		IC1 on XPGS
	J5259109	I.C. HD6415108F10	FLAT	IC2 on XPGS
	00897078	I.C. TC170C200AF-005	(CUSTOM IC)	IC3 on XPGS
#	01233612	I.C. ROM UPD23C32000AGX311		IC6 on XPGS
#	01233645	I.C. ROM UPD23C32000AGX313		IC7 on XPGS
#	00236878	I.C. TC74VHC74F	FLAT	IC9 on XPGS
#	15239206	I.C. MB87837PF-G-BND	FLAT	IC10 on XPGS
	J5259111	I.C. MB814800-70PJ		IC11 on XPGS
#	00232667	I.C. M38881M2-150GP	FLAT	IC13 on XPGS
#	15249104	I.C. TC7S04F	FLAT	IC15, IC17 on XPGS
#	15259753	I.C. TC74HC164AFN	FLAT	IC16 on XPGS
#	K525814110	I.C. ROM K525814110		IC20, IC22 on XPGS
#	K525814210	I.C. ROM K525814210		IC21 on XPGS
#	K525814310	I.C. ROM K525814310		IC4 on XPGS
	J5159107	I.C. 74 HC574		IC23 on XPGS
	J5189102	I.C. TD62593AP	DIP	IC19 on CPU
	15169550RI	I.C. 74 HC138		IC1 on LCB
	15189250	I.C. M5218 AL		IC2 on LCB
#	J5259119	I.C. 74 HC 14	FLAT	DIP CMOS
	15169334	I.C. 74 LS 05 N		(STANDING)
	15229718RI	I.C. 6N 137		IC3, IC4, IC5, IC6 on LCB
	15189251	I.C. M5218 P		IC7, IC8, IC9 on LCB
				IC14, IC15, IC16, IC17 on CCB
				IC1, IC5 on MIB
				IC2, IC6 on MIB
				IC2 on MEB

TRANSISTOR

	15119154RI	TRANSISTOR	BC/549-B	Q12 => Q1, Q3, Q10 on MIB / Q25 on RCB
	15119155RI	TRANSISTOR	BC/560-B	Q1, Q2 on AB / Q2, Q9 on MIB
	15319101	TRANSISTOR	2SC-2412	Q3 on AB
	15329516	TRANSISTOR	DTC-114EK	Q1, Q2, Q4 on CPU
	J5119104	TRANSISTOR	DTA-114 EK	Q3, Q5 on CPU
	15119163	TRANSISTOR	RN2227	Q1 => Q11 on LCB

DIODE

	15019159RI	DIODE	1N-4148	on LB / RB / LCB / RCB / CCB / MIB
	15339108	DIODE	DA-204K	D1 => D9 on CPU
	J5019106	ZENER DIODE	BZX79C 5.1V	D10 on CPU / D213, D214 on LCB
	15039174	DIODE	S2S6M	D11 on CPU
	J5019105	DIODE	1N 4002	D1, D3 on AB
	15339112	CHIP DIODE	DA119	D2 on AB
	15029320RI	LED DIODE	TLHG4401 - GREEN	on CCB / LCB / RCB
	15029284RI	LED DIODE	TLHR4401 - RED	on CCB / LCB / RCB
#	J5029110	LED DIODE	3 TLH04400 - ORANGE	D117 on CCB / D101,109,149,157,165,181 on RCB /

D125,133,141,173 on LCB

RESISTOR

#	J3919104	RESISTOR ARRAY	EXB-A10E-103-J	RA1, 2, 6, 7, 8, 9, 10, 15, 16, 27, 28, 29, 30, 31 on CPU
	J3919108	RESISTOR ARRAY	EXB-V8V-103-JV	RA3, 4, 5, 11, 14, 32, 33, 35 on CPU
	J3919107	RESISTOR ARRAY	EXB-V8V-101-JV	RA12, RA13 on CPU
	J3919109	RESISTOR ARRAY	EXB-V8V-470-JV	RA17 => RA26 on CPU
#	J3919111	RESISTOR ARRAY	EXB-V8V-391-JV	RA34 on CPU
	13819132RI	UNINFL.RES.	100 OHM 0.6W 5%	R3, R4 on MEB / R1, 5, 6, 7, 70, 71 on AB / R1 => R8 on LCB
	J3809134	UNINFL.RES.	27 OHM 0.6W 5%	R23 on LCB

POTENTIOMETER

	J3219101	ROT.POT.	5KB 90° - MONO	VR1 on MEB / VR2 on AB
	00671589	SLIDER POT.	NFX-X10 B14	VR1, VR2 on LCB
	00346178	SLIDER POT.	RS30111CA	VR3 on LCB
	00671556	SLIDER POT.	NNK-X10-B14	VR4 on LCB

CAPACITOR

#	01015912	POL. COND.0805	2.2N 5%	C91, C93, C95, C98 on AB
#	15359779	POL.COND.0805	2.7N 5%	C92, C94 on AB
#	01015878	POL.COND.0805	330P 5%	C97, C100 on AB
#	15359776	POL.COND.0805	390P 5%	C63, C64 on AB
#	01124834	POL.COND.0805	5.6N 5%	C96, C99 on AB
	J3629144	ELCTRL.COND.	470UF 16V AX	C14 on LCB
	J3469156	ELECTR. COND.	33U 16V P.5	C1,80,81,93,147,148 on CPU / C49,53,54,56,57,58,59,60,81,85,86,88,89,90,101,102 on AB
	J3629103	ELECTR. COND.	100U 25V P5	C69,70,71 on CPU / C1 on MIB / C9,10,13,14,15,68,69 on AB
	J3629135	ELECTR. COND.	470U 35V P5	C2 on IB
	J3629104	ELECTR. COND.	10U 50V P5	C2,15,17,38,52,54,74,96 on CPU / C4=>C8,11,12, 65=>70 on AB
	13649103J0	UNPOL.COND.	10U 16 P5	C1, C2 on AB / C3 on MEB
	J3629105	ELECTR. COND.	47U 50V P5	C118,139,140 on CPU
	J5369104	ELECTR. COND.	10U 16V (SMD)	C4, C9, C21, C27 on XPGS
	J5369103	ELECTR. COND.	100U 16V (SMD)	C40 on XPGS
	J3629137	ELECTR. COND.	33U 16V H.7	C13, C33, C34, C35 on LCB
	J3629149	ELECTR.COND.	100U 16V H.7	C1 on RCB / C27 on CCB

INDUCTOR, COIL, FILTER

<<EMI>>	22448240	NOISE SUP.	BL02RN2-R62	L1, L2, L3 on PHB
<<EMI>>	12449370	NOISE SUP.	SBT-0160W	L1 on MEB / L1,2,3,5,6,7,9,10,11 on MIB / L7,8,10,11 on AB
<<EMI>>	12449326	NOISE SUP.	SBT-0460	L2 on MEB / L4, L12 on MIB / L4 on FC7
<<EMI>>	13529187	NOISE SUP.	ELKTR391CA	FL1 => FL7 on FC7
<<EMI>>	12449380	NOISE SUP.	EXC-ELDR25V	L3, L4, L5, L6, L9 on AB
<<EMI>>	J2399103	CHIP NOISE	SUP. ELKS471FA	FL1 => FL6 on CPU
<<EMI>>	J2399104	CHIP NOISE SUP.	EXCCL4532U1	L2 => L18, L39, L40 on CPU
<<EMI>>	00452034	CHIP NOISE SUP.	BK2125HM102	L21 => L38 on CPU

CRYSTAL, RESONATOR

	00894023	QUARTZ	20.000 MHZ MA-406	X1, X3 on CPU / X2 on XPGS
	00894034	QUARTZ	16.000 MHZ MA-406	X2 on CPU
	00901912	QUARTZ	24.576 MHZ MA-406	X1 on XPGS

RELAY

	12439224RI	RELAY	DS2YS-12V	RL1, RL2 on AB
--	------------	-------	-----------	----------------

ENCODER

	J3119101	ENCODER EVQ-WQK F15-24B	ENC1 => ENC5 on CCB / ENC6 on RCB
--	----------	-------------------------	-----------------------------------

CONNECTOR

	13419677RI	16P FEM. CONN.	AMP 1.27	CN16 on CPU / CN1 on LB
	13369689RI	20P FEM. CONN.	AMP 1.27	CN15 on CPU / CN2 on RB
	13429314	25P FEM. CONN.	D-SUB. DBLC	CN19 on CPU
	13419676RI	8P MALE CONN.	P 2.5 MOLEX	CN6, CN11 on CPU / CN2 MIB / CN5 on AB
	13369688RI	4P MALE CONN.	P 2.5 M	CN1 on IB
	J3439103	6P MALE CONN.	P 2.5 M	CN6, CN2 on AB / CN11 on PHB
	J3439106	9P MALE CONN.	P 2.5 M	CN9, CN10 on CPU / CN3 on AB / CN1 on MIB
	J3439113	7P MALE CONN.	P 2.5 M	CN4 on AB / CN2 on POWER SUPPLY B
	J3439120	4P MALE CONN.	P.2 M	CN1 on AB / CN1 on MEB
	J3439121	6P MALE CONN.	P.2 M	CN7 on LCB
	J3439122	8P MALE CONN.	P.2 M	CN5, CN3 on RCB / CN10 on LCB /CN2 on FC7
	J3439125	5P MALE CONN.	P.2 M	CN4 on RCB / CN13 on CCB
	J3439151	9P MALE CONN.	P.2 M	CN6 on RCB / CN11 on LCB
	J3439141	10P MALE CONN.	P.2 M	CN3 on CPU / CN6 on LCB / CN8 on LCB / CN14 on CCB
	J3439143	34P MALE CONN.	P. 1.27 M	CN17 on CPU
	J3439126	12P MALE CONN.	P.2 M	CN1 on CPU / CN2 on LCB
	J3439146	11P MALE CONN.	P.2 M	CN4 on CPU / CN1 on LCB /
	J3439147	14P MALE CONN.	P.2 M	CN5, CN7, CN8 on CPU / CN4 on CCB / CN1 on XPGS
	J3429120	3P MALE CONN.	P.2 M	CN2 on CPU / CN401 on AFT
	13369898	2P MALE CONN.	B2P3-VH	CN2 on IB
	J3439158	4P MALE CONN.	MA76382-404	CN402 on AFT
	J3439159	4P MALE CONN.	53254 90° P.2	CN5 on LCB
#	13369851	50P MALE CONN.	DAT1-B1	CN18 on CPU

#	J3439162	13P MALE CONN.	P.2 M	CN15 on CCB / CN9 on LCB
#	J3439163	15P MALE CONN.	P.2 M	CN7 on RCB / CN12 on LCB
#	J3439161	14P MALE CONN.	53015-1410 90° P2 M	on LCD ASSY

WIRING, CABLE

	00783234	BENDER CABLE	(35)	(W4PC P.2)	(For details refer to WIRING DIAGRAM on page 5)
	K3468156	4P CABLE	(90)	2C D/D	"
#	K3468188	6P CABLE	(52)	2C D/R	"
	K3468170	8P CABLE	(18)	2C D/R	"
	K3468171	9P CABLE	(22)	2C D/R	"
#	K3468184	9P CABLE	(36)	2C D/R	"
#	K3468186	16P FLAT CABLE	(36)	2C	"
#	K3468185	20P CABLE ASSY	(24)	2C	"
#	K3468187	34P FLAT CABLE	(80)	2C	"
#	K3468183	50P FLAT CABLE	(76)	2C	"
	7697239001	7P CABLE ASSY	(16)	2C D/R	"
	7697220001	8P CABLE	(32)	2C	"
#	7700112000	3P CABLE ASSY	(64)	2C P.2	"
	7698907000	4P CABLE ASSY	(6)	2C P.2	"
#	7700117000	2P COAXIAL CBL ASSY	(96)	"	"
#	7700118000	5P CABLE ASSY	(44)	2C P.2	"
#	7700129000	3P CABLE ASSY	(132)	(W/4PC+4PC)	"
#	7700115000	8P CABLE ASSY	(40)	2C P.2	"
#	7700116000	8P CABLE ASSY	(52)	2C P.2	"
	7699418000	10P CABLE ASSY	(38)	2C P.2	"
#	7700119000	9P CABLE ASSY	(50)	2C P.2	"
#	7700120000	10P CABLE ASSY	(72)	2C P.2	"
#	7700121000	12P CABLE ASSY	(48)	2C P.2	"
#	7700125000	11P CABLE ASSY	(58)	2C P.2	"
#	7700127000	13P CABLE ASSY	(24)	2C P.2	"
#	7700122000	14P CABLE ASSY	(44)	2C P.2	"
#	7700123000	14P CABLE ASSY	(8)	2C P.2	"
#	7700124000	14P CABLE ASSY	(28)	2C P.2	"
#	7700126000	15P CABLE ASSY	(44)	2C P.2	"

SCREW

	J2289126	SELF TAP.SCREW	2.9X 8 TCTCPRBZ
	J2289125	SCREW	2.9X10 TC TC PR TROP
	J2289131	SELF TAP.SCREW	3.5X16 TCTCPRBZ
	J2289160	SELF TAP.SCREW	2.9X13 TCTCPR BR
	J2289108	SELF LOCK.SCREW	M3X10 TCTC H.6
	J2289111	SELF LOCK.SCREW	M3X4 TCTC H. 6
	J2289193	SELF LOCK.SCREW	M3X6 TC TC H.6
	J2289135	SELF LOCK.SCREW	M4X 7 TCTC T.8
	J2289113	NUT	3MA H.3
	J2139102	TOOTHED WASHER	I/D 3

PACKING

#	K263819201	RIGHT POLYST.END-SIDE	G-1000
#	K263819301	LEFT POLYST. END-SIDE	G-1000
	K2678119	CARTENE ENVELOPE HD CM.170X56	
	K2678102	POLYETH. ENVELOPE 25X45	
	K2678106	POLYETH.ENVELOPE 40X55	
#	K2618193	OUTER PACKING	

MISCELLANEOUS

#	K2238121	DIFFUSER F/4 LED (HORIZONTAL)	
#	K2238122	DIFFUSER F/4 LED (VERTICAL)	
#	K2238123	DIFFUSER F/3 LED (VERTICAL)	
	K253810302	FUSE WARNING LABEL	
	K2168102	SPACER FOR LED	H.2.8 D.E. 5.5
	J2359105	PRESSURE RUBBER	SFF-018
	J2159102	PLASTIC RIVET	SR3055
	J2159103	DOUBLE ELASTIC PLATE	
#	K2258115	MYLAR SHIELD	MM 260X90 G-1000
#	K2248132	ANTIDUST COVER	PL30N G-1000
#	K224813301	ANTIDUST COVER	(For LCD) G-1000

ACCESSORIES

#	K6018109	MIDI GUIDE	
#	K6018309	OWNER'S MANUAL (E)	G-1000
#	K6018310	OWNER'S MANUAL (I)	G-1000
#	K6018319	OWNER'S MANUAL (F)	G-1000
#	K6018320	OWNER'S MANUAL (D)	G-1000
#	K6018311	MIDI IMPLEMENTATION	G-1000
#	7700135000	ZIP DISK	G-1000
#	J3439150	MAINS CABLE H05VV+ POL.SOCKET	(230V)
△	J3439128	CABLE 498/3SJT 2X18 AWG-C17	(117V)
△	13499152RI	CABLE BS/13/H05VV-F3G0.75-V	(230VE)
△	13499150RI	CABLE SAA/3-0D3CCFC 3X0.75-V	(240VA)

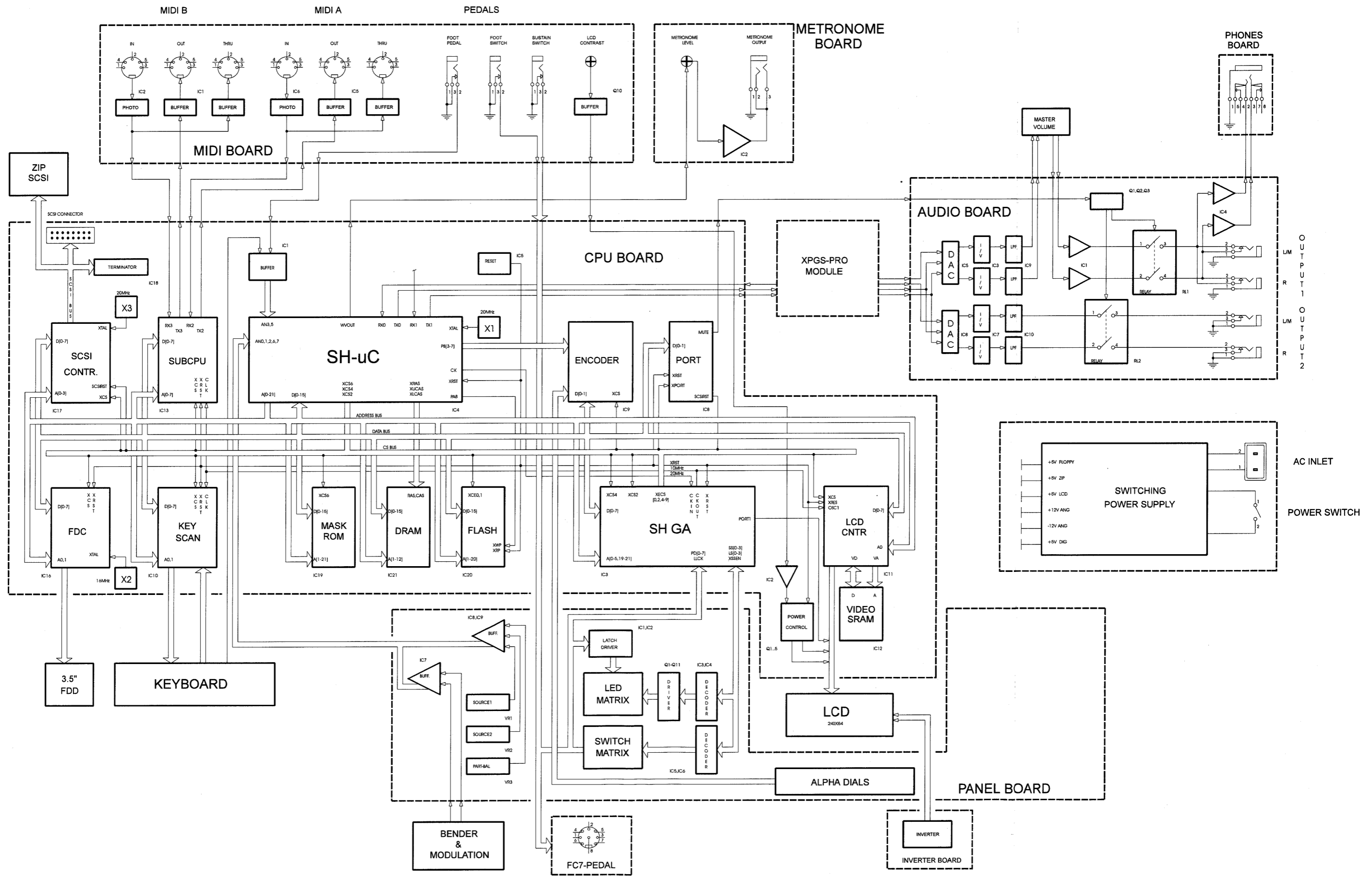
OPTIONS

#	7700136000	PROTECTION FOR ZIP DRIVER ASSY	G-1000
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

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BLOCK DIAGRAM



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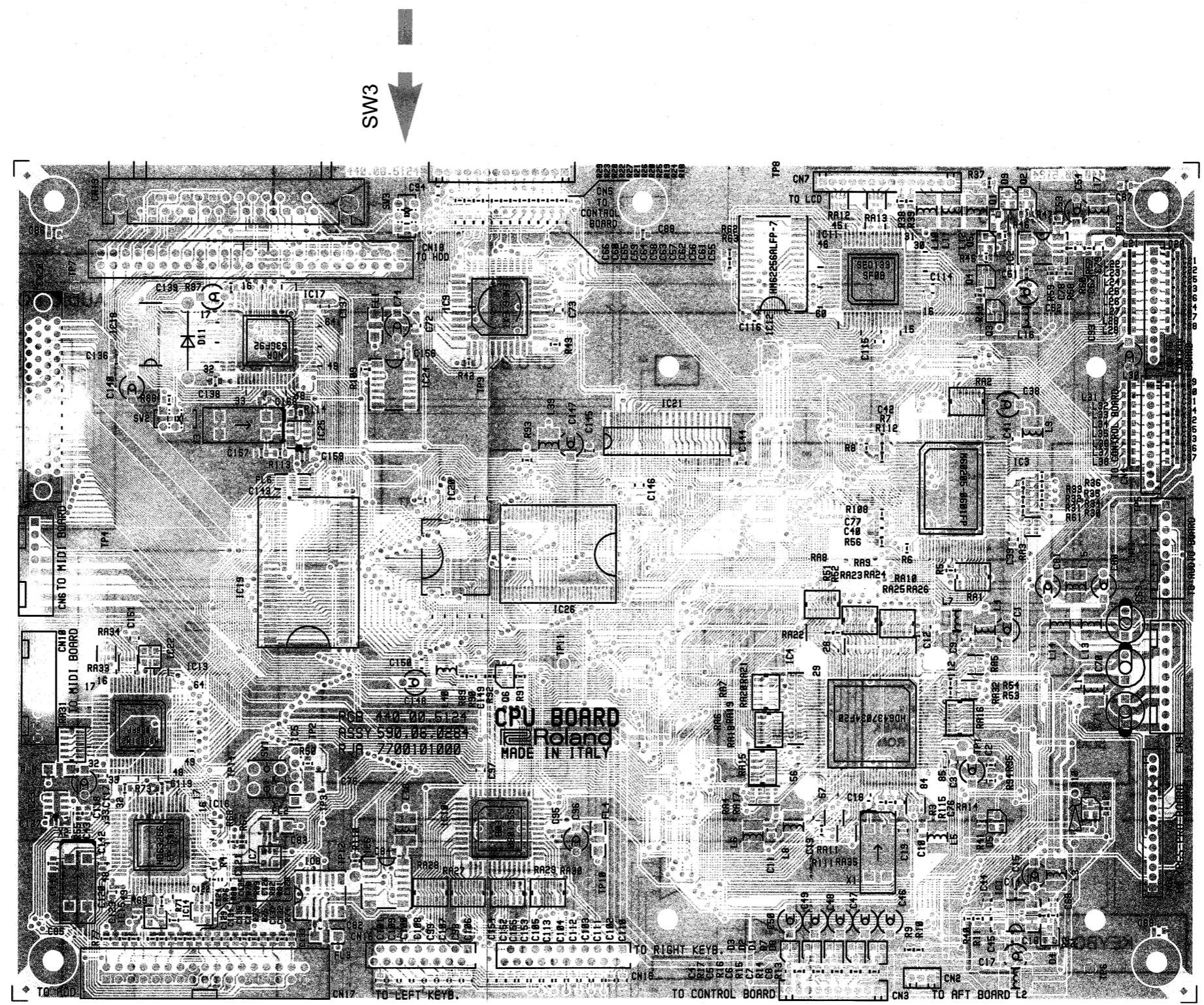
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E CPU PCB ASSY ASSY 7700101000

Set the following switches on the Main Board as shown:

SW2 [■ |x|] (TERM ON/OFF)

SW3 [■ |x|] (TERM POWER)

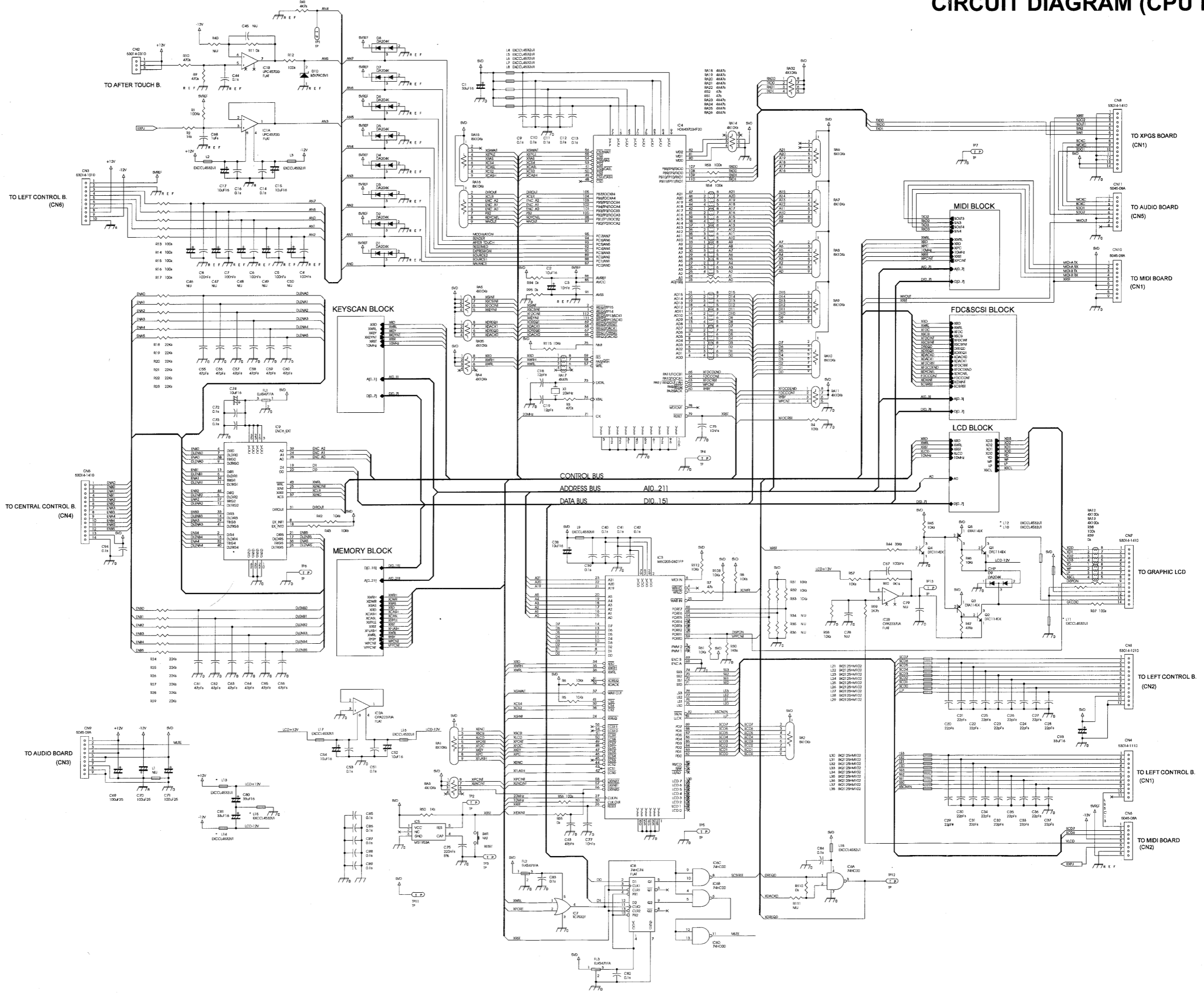


View from component side

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

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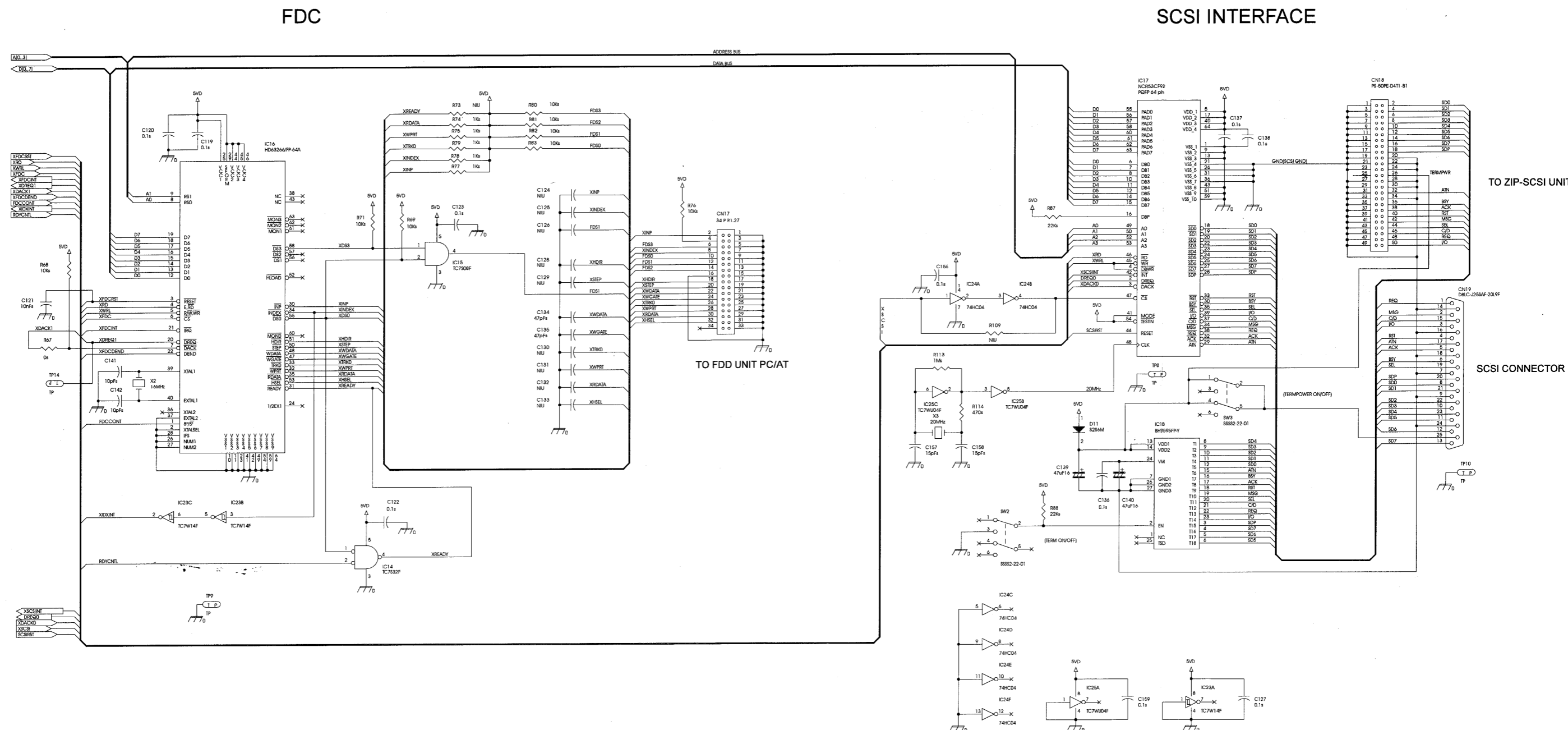
CIRCUIT DIAGRAM (CPU PCB ASSY)



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

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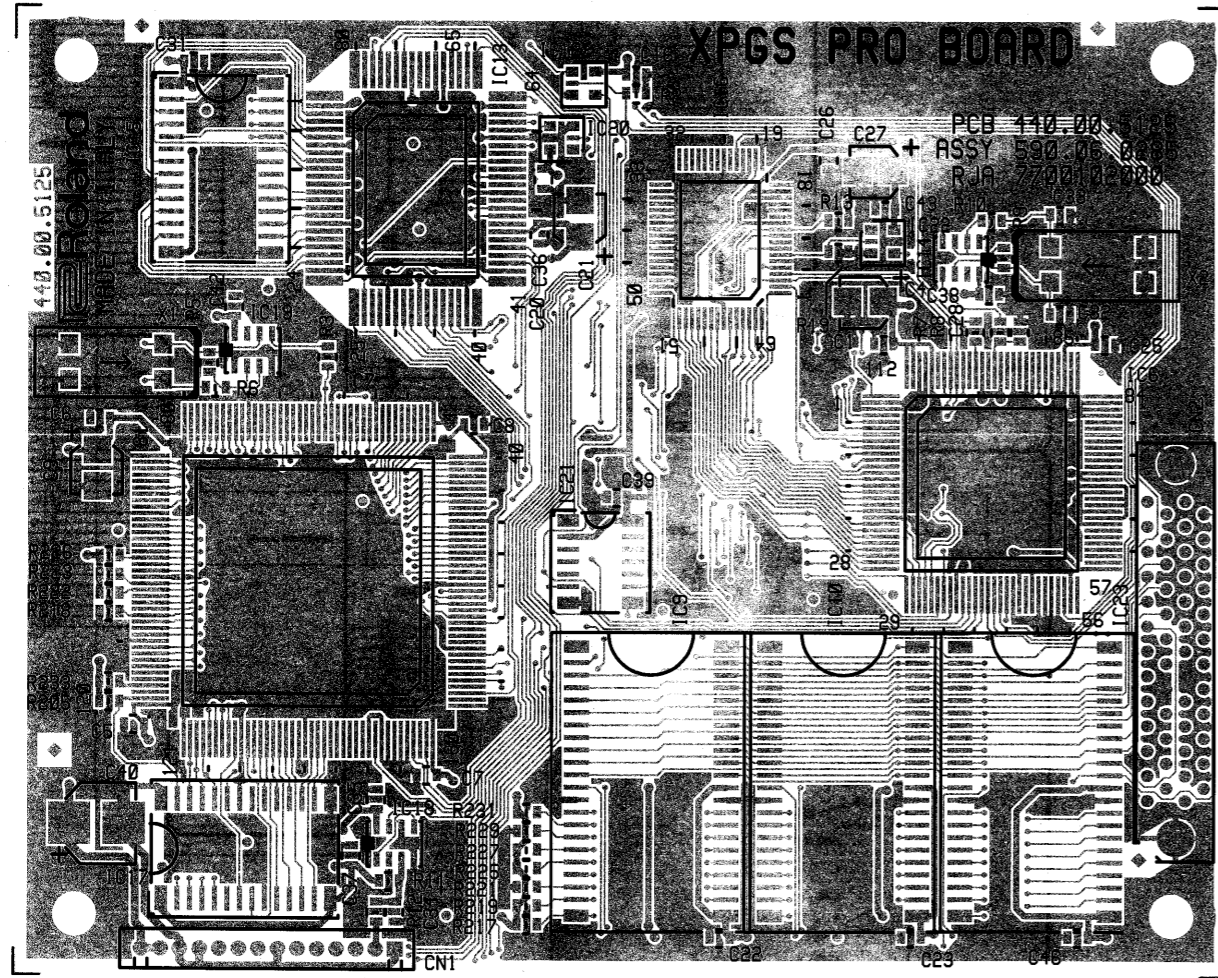
CIRCUIT DIAGRAM FDC & SCSI BLOCK/MAIN PCB ASSY



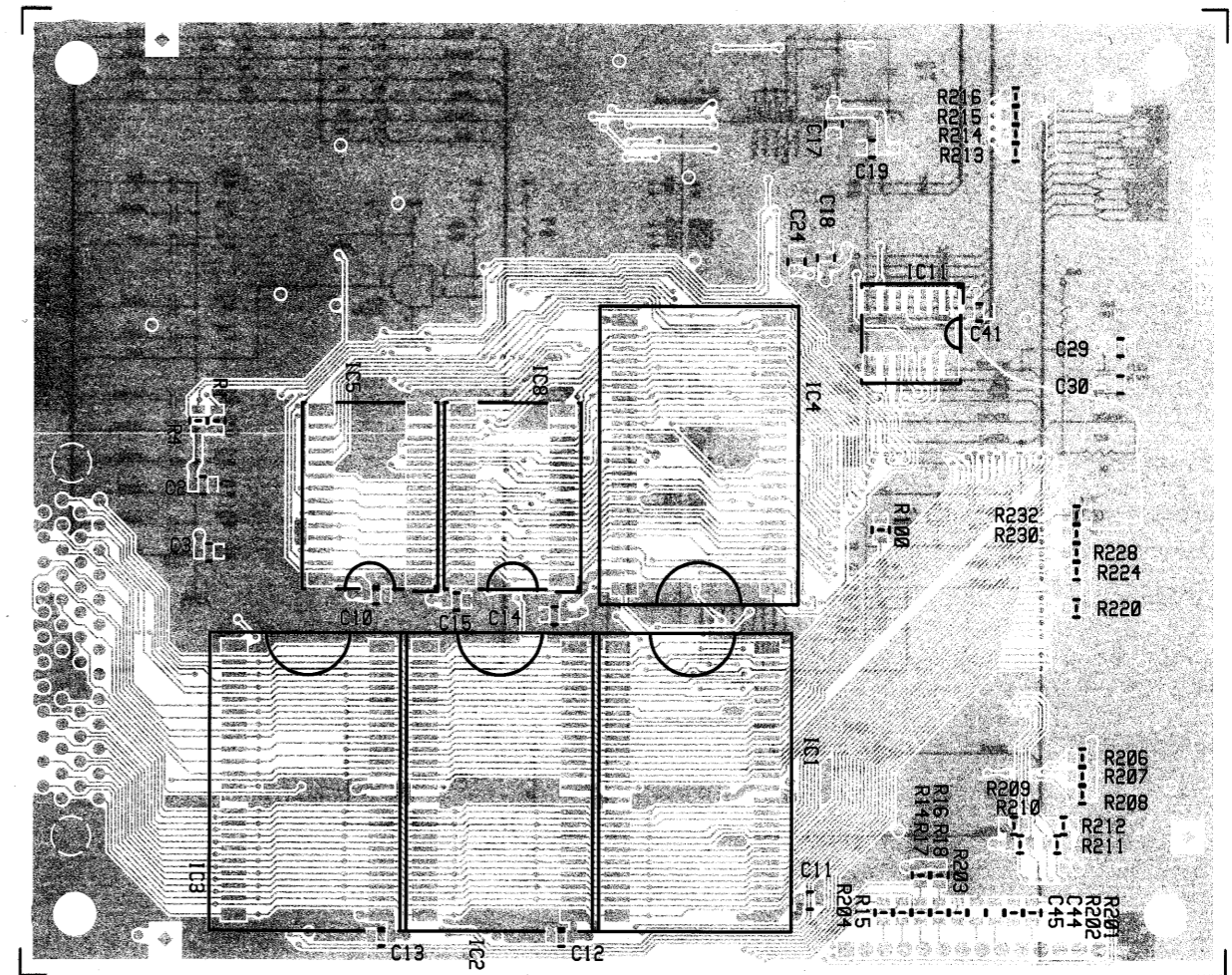
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

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E XPGS PRO PCB ASSY ASSY 7700102000



View from component side



View from solder side

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

A AUDIO PCB ASSY ASSY 7700103001

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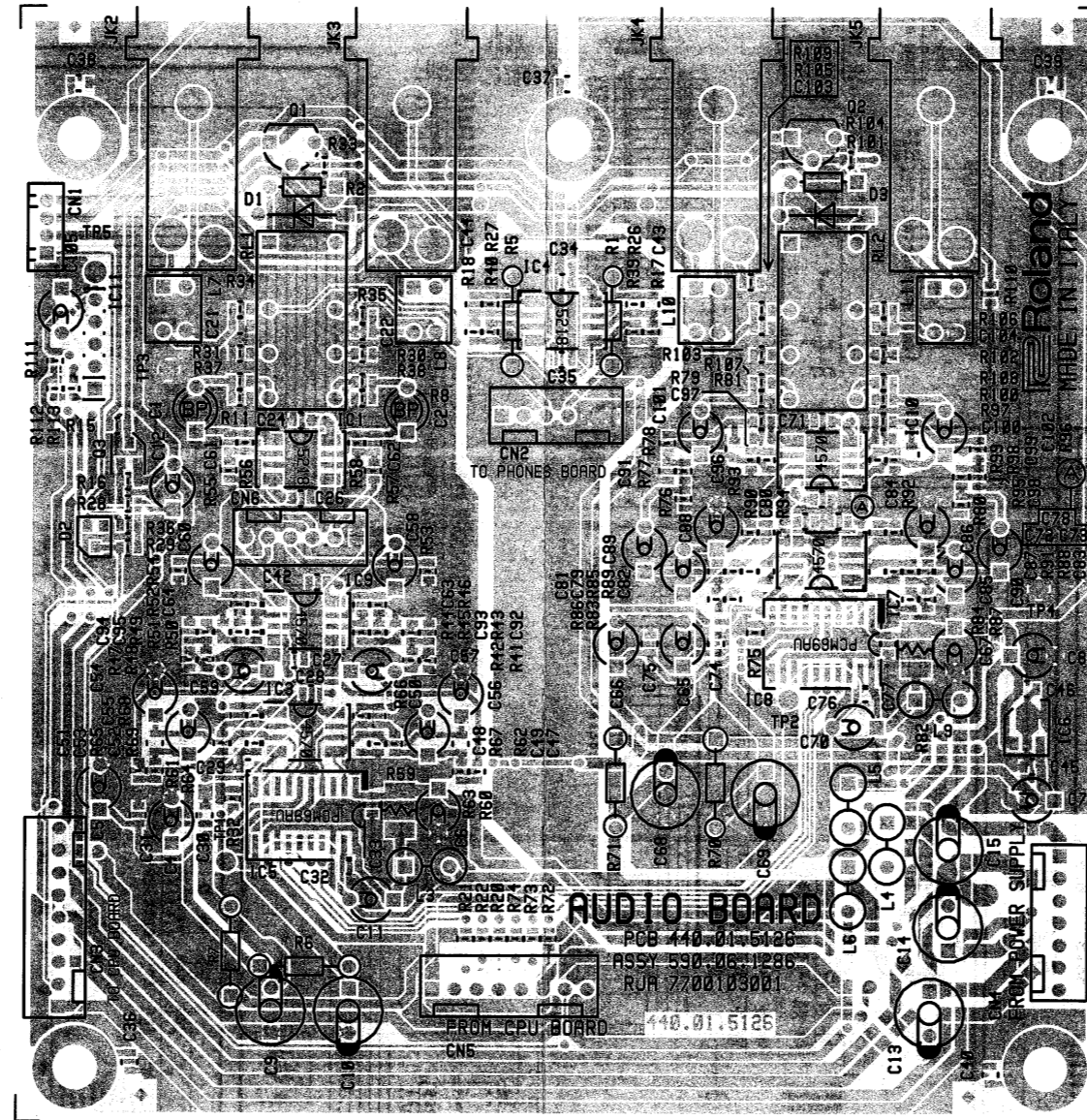
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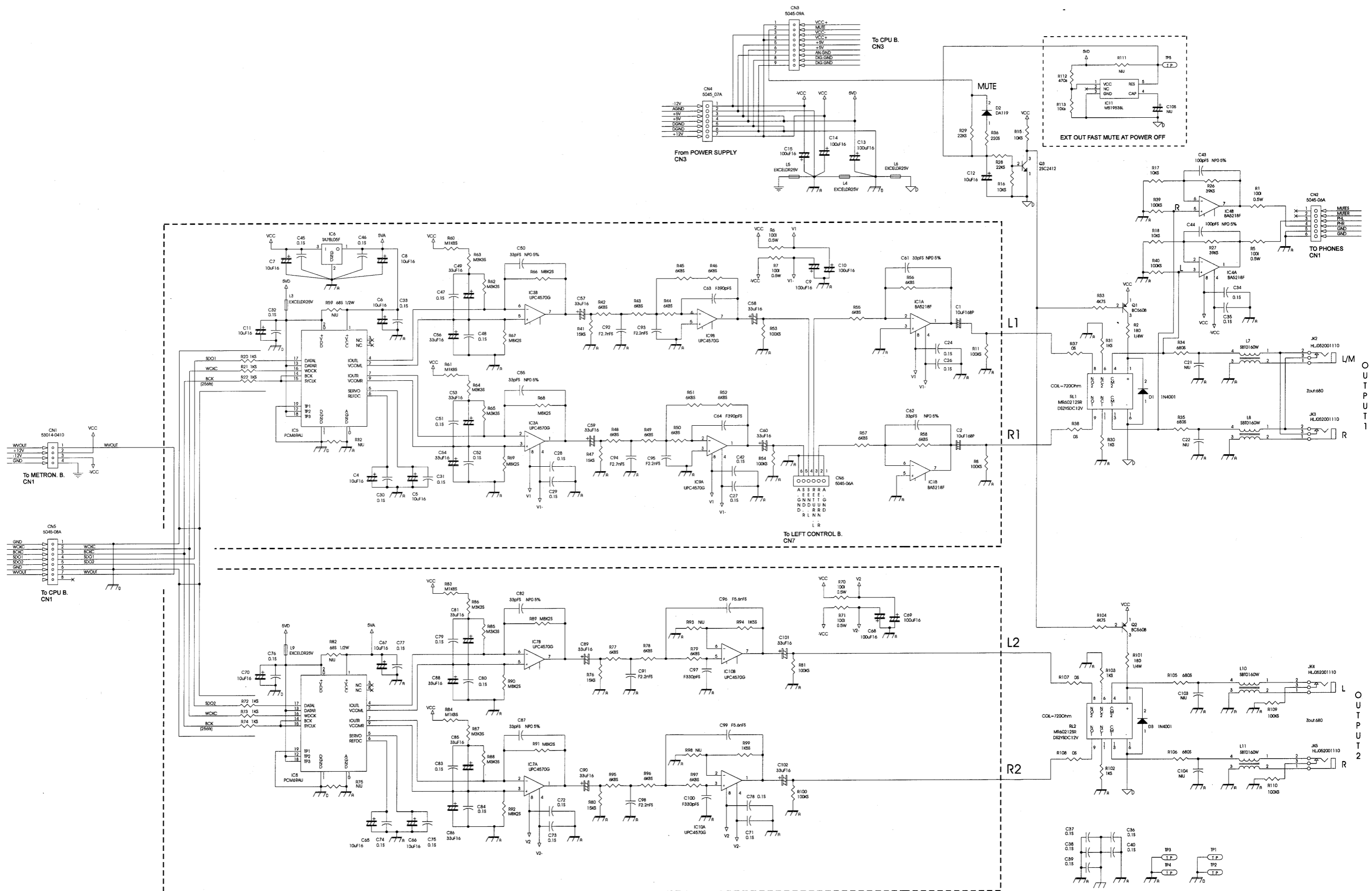


View from component side

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

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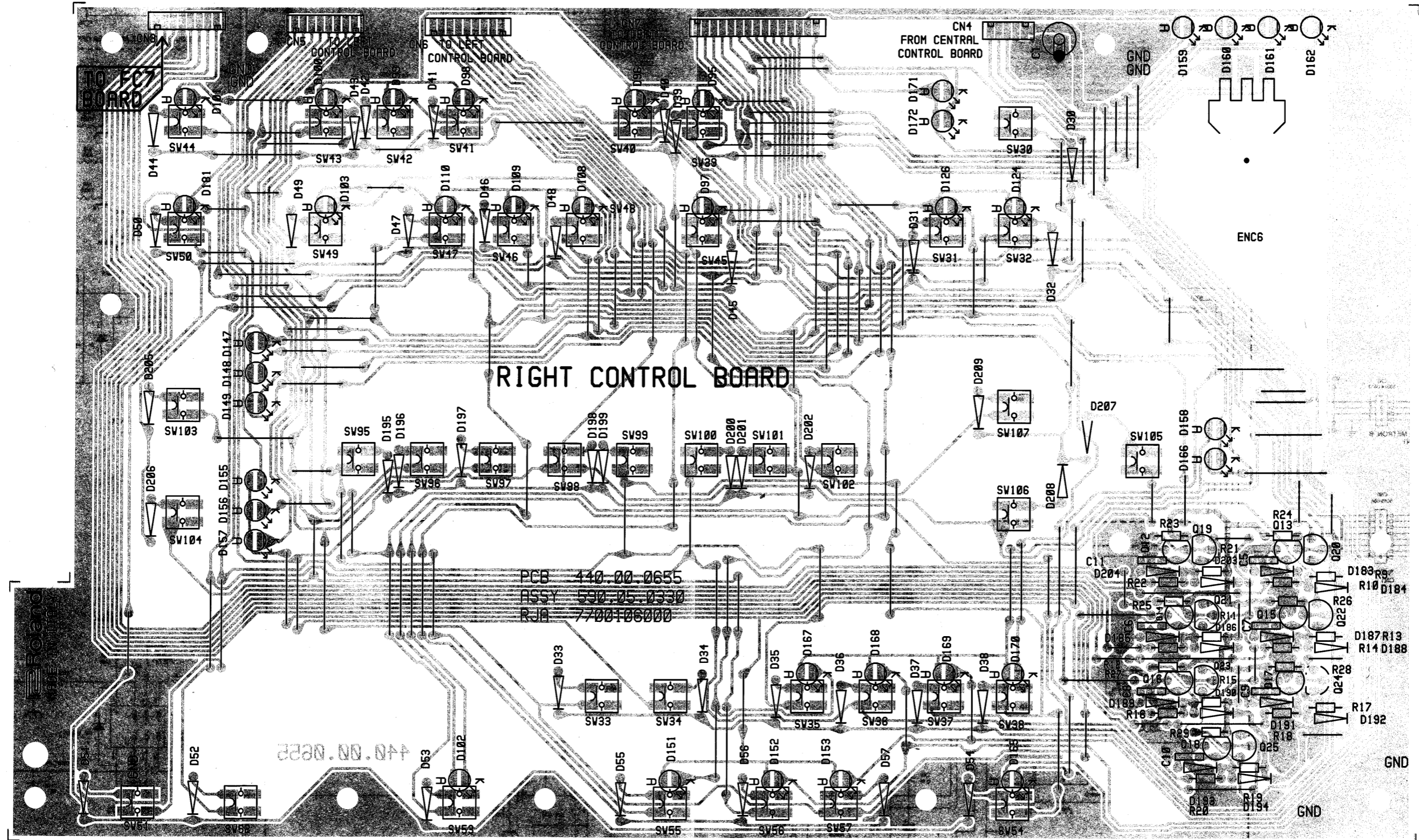
CIRCUIT DIAGRAM (AUDIO PCB ASSY)



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

A RIGHT CONTROL PCB ASSY ASSY 7700106000

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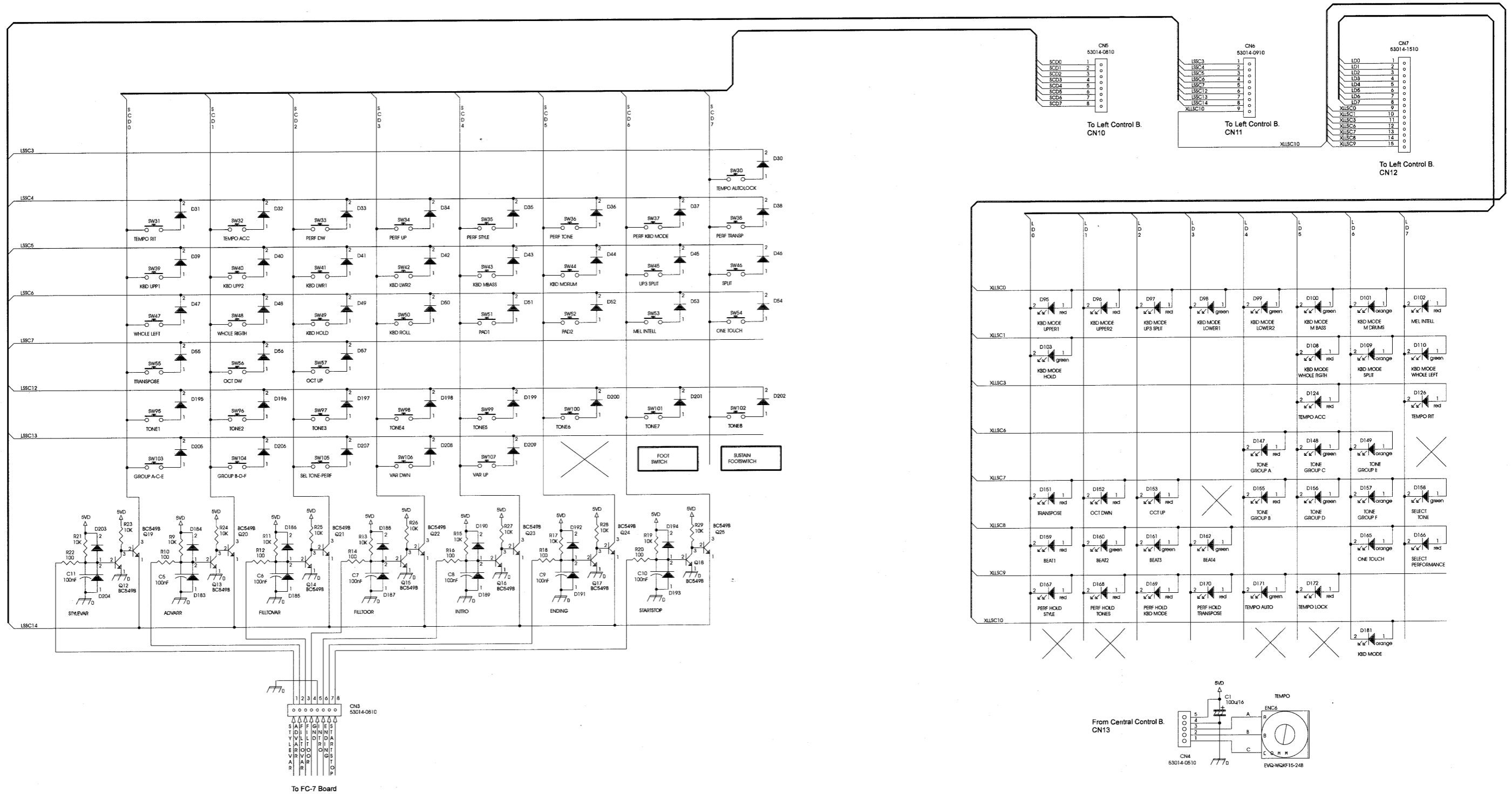


View from component side

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

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CIRCUIT DIAGRAM (RIGHT CONTROL PCB ASSY)

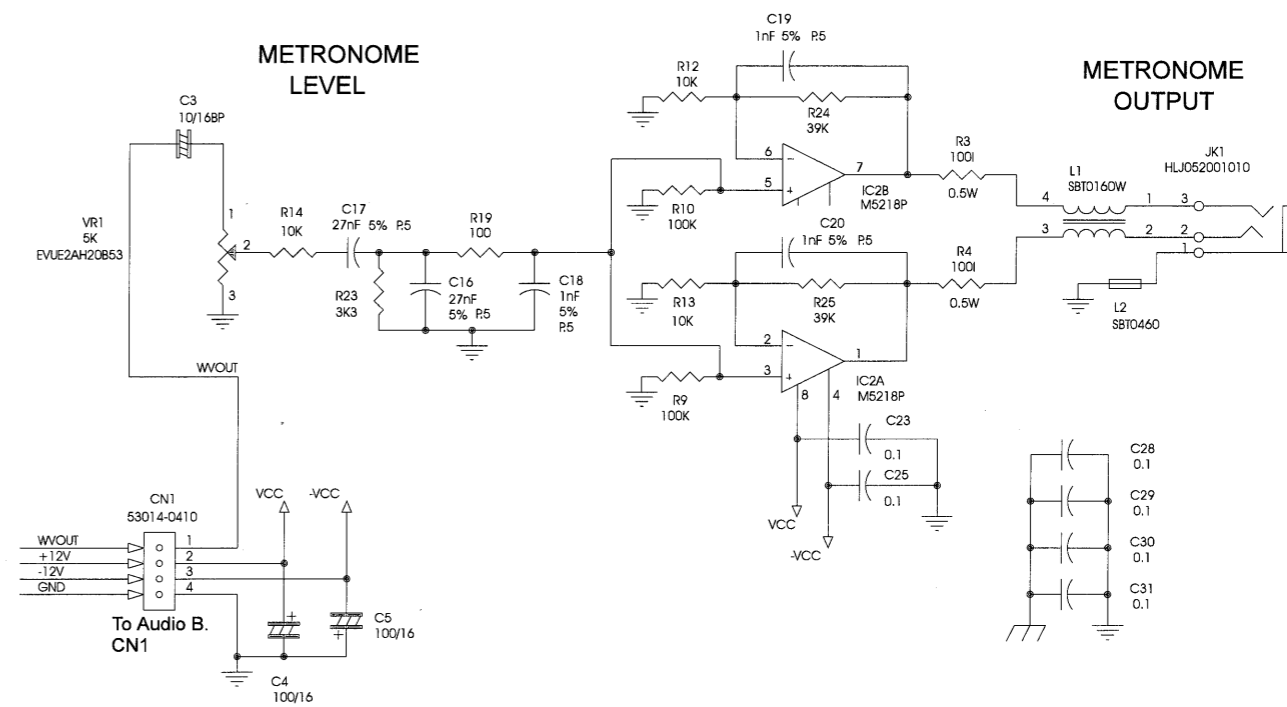
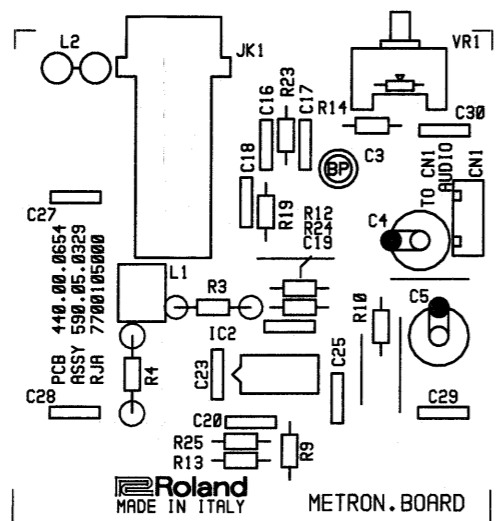


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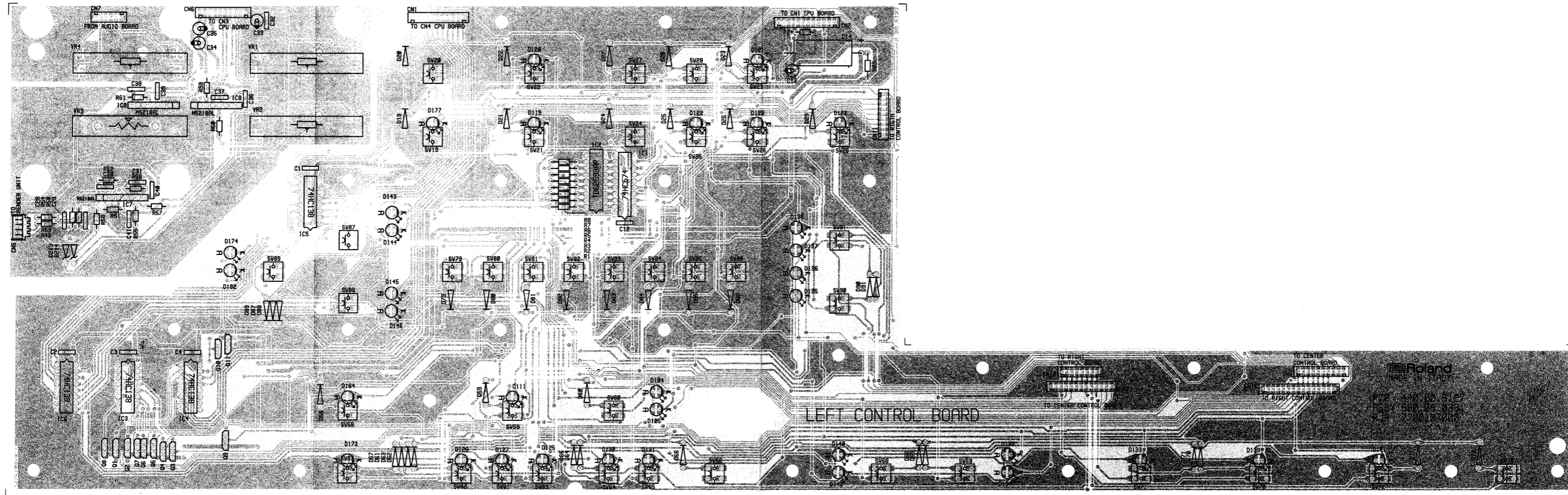
METRONOME PCB ASSY & CIRCUIT DIAGRAM

ASSY 7700105000



LEFT CONTROL PCB ASSY ASSY 7700107000

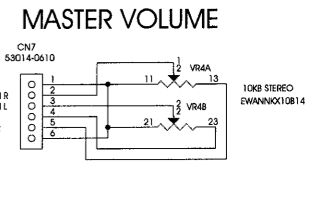
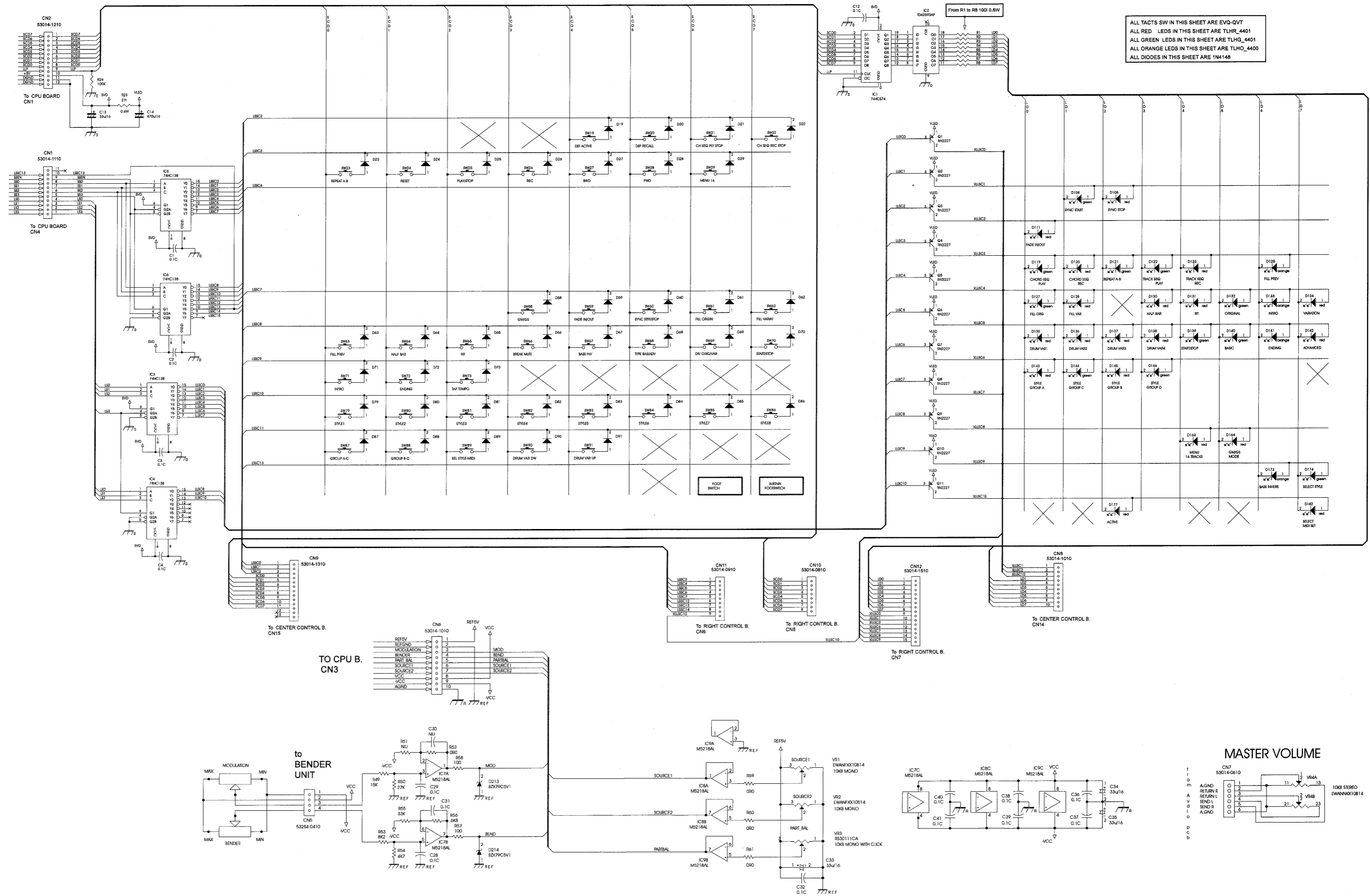
View from component side



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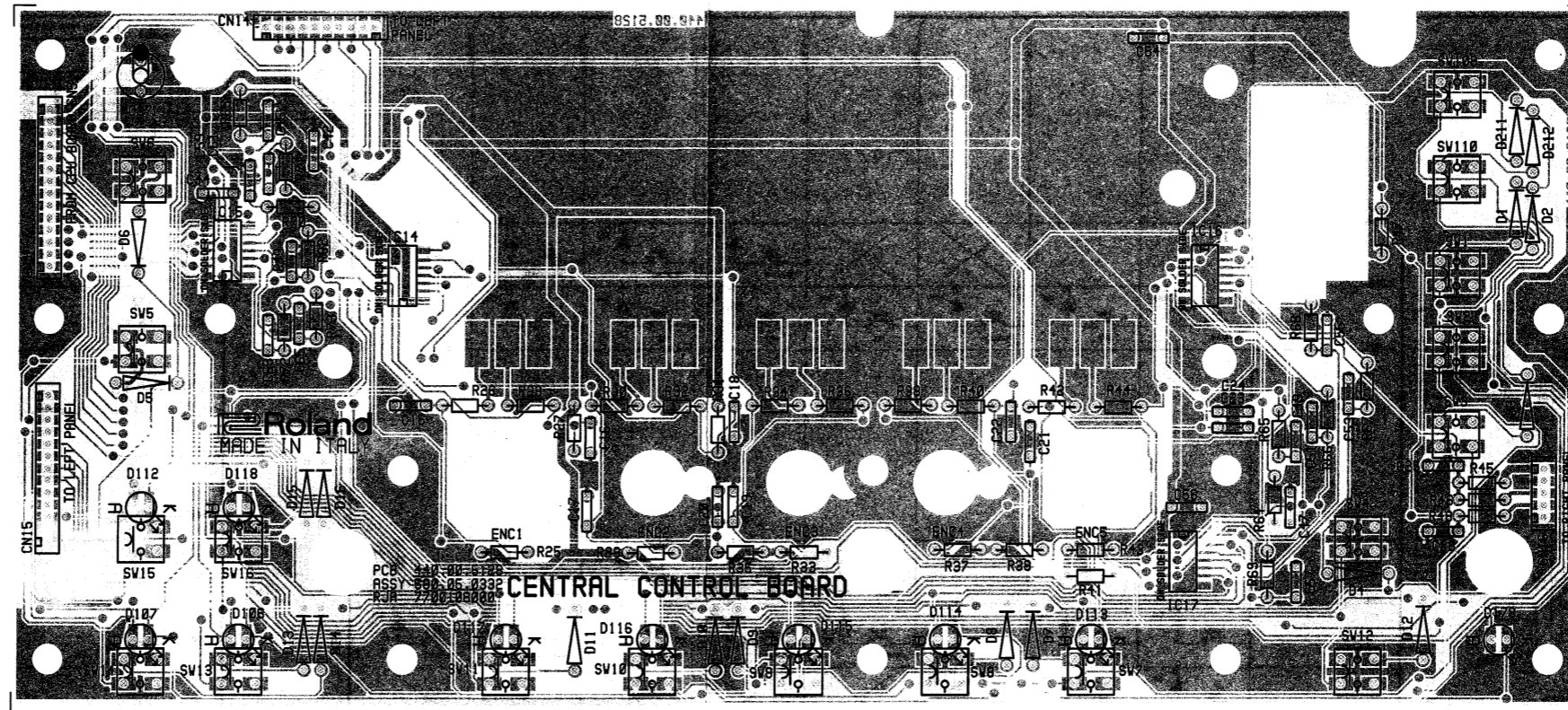
CIRCUIT DIAGRAM (LEFT CONTROL PCB ASSY)



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

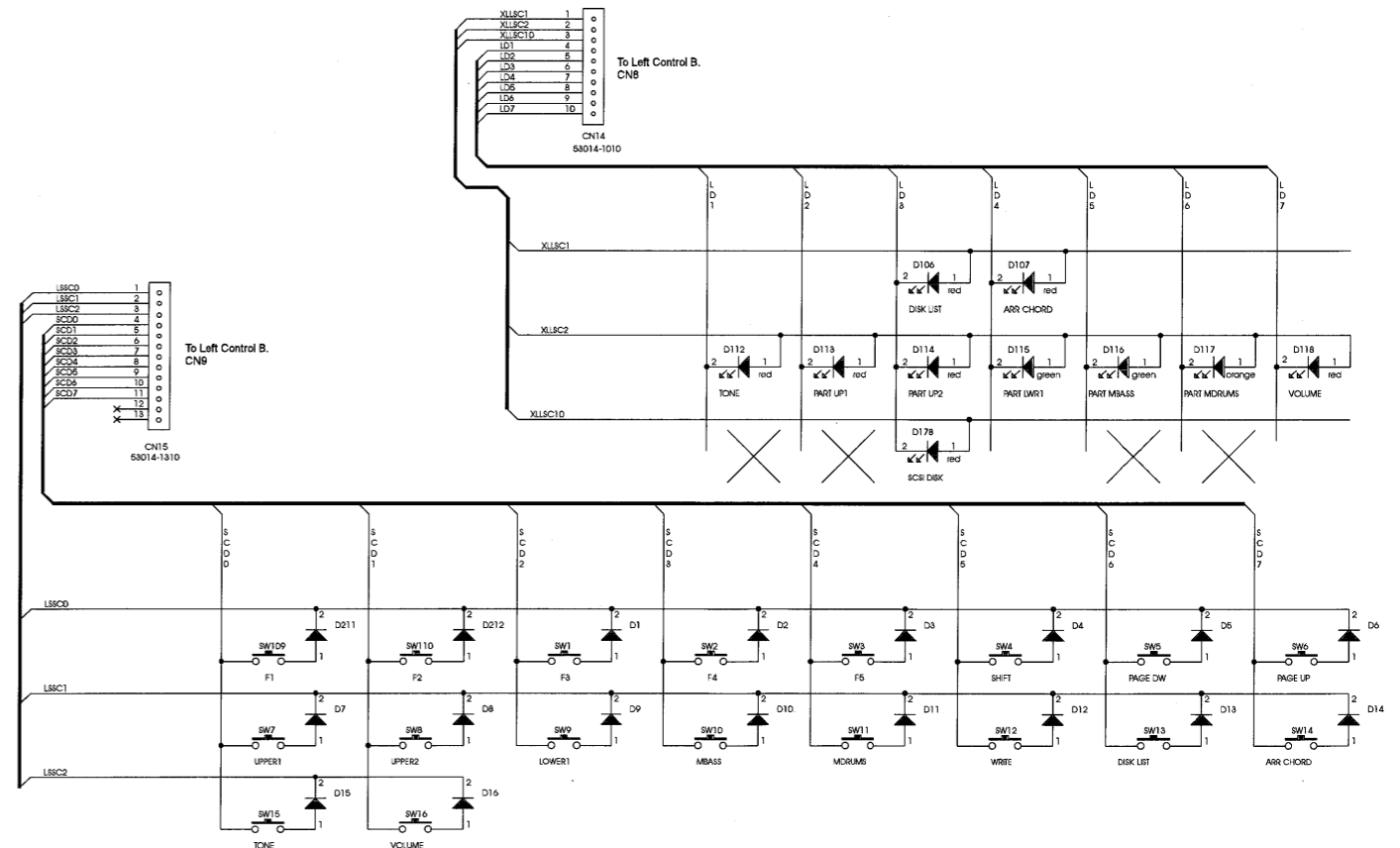
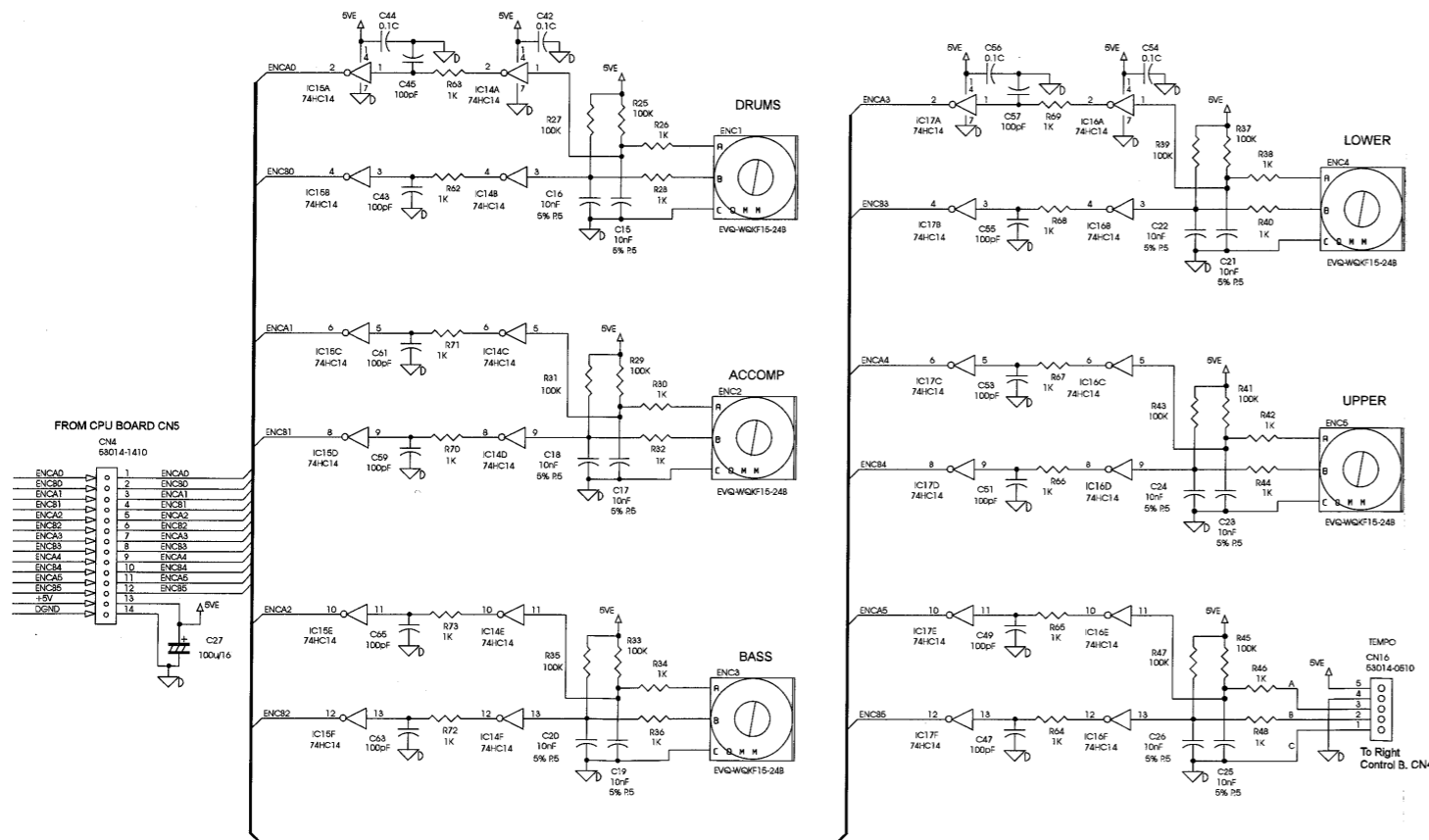
CENTRAL CONTROL PCB ASSY ASSY 7700108000

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CIRCUIT DIAGRAM (CENTRAL CONTROL PCB ASSY)

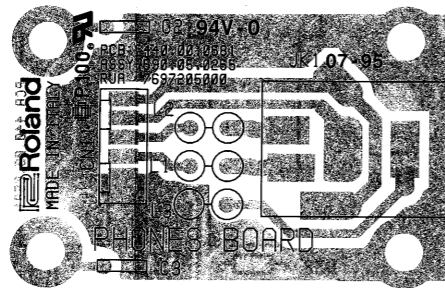
View from component side



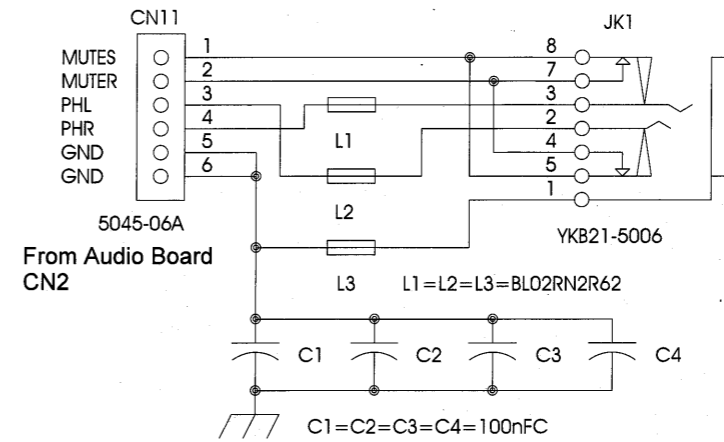
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PHONES PCB ASSY & CIRCUIT DIAGRAM ASSY 7697205000

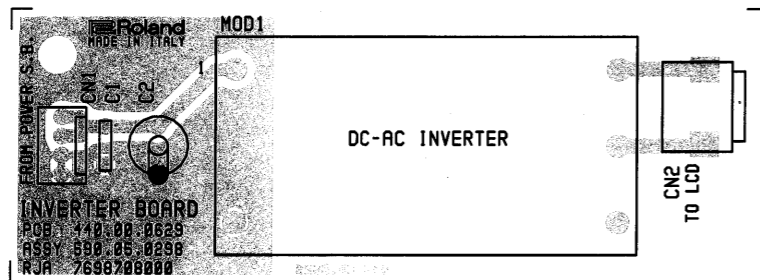


View from component side

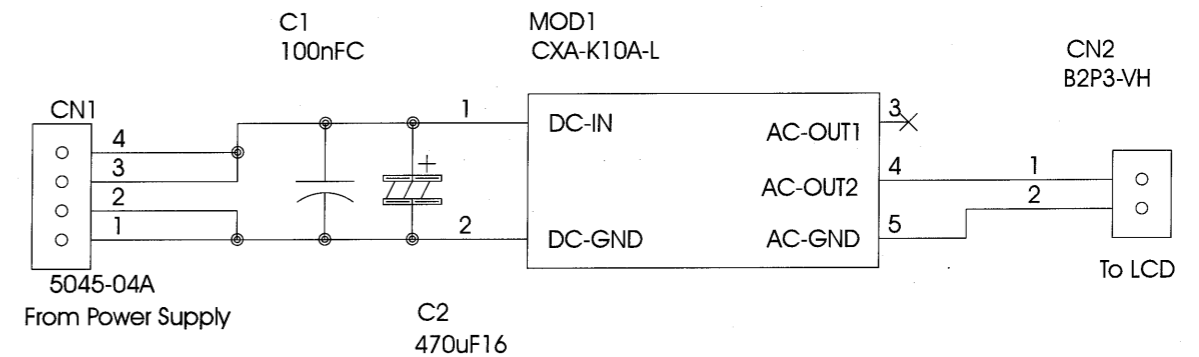


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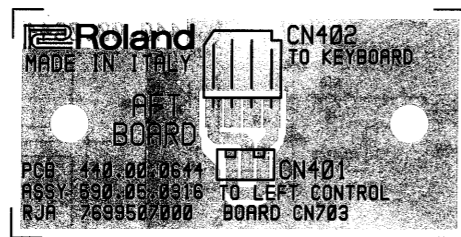
INVERTER PCB ASSY & CIRCUIT DIAGRAM ASSY 7698708000



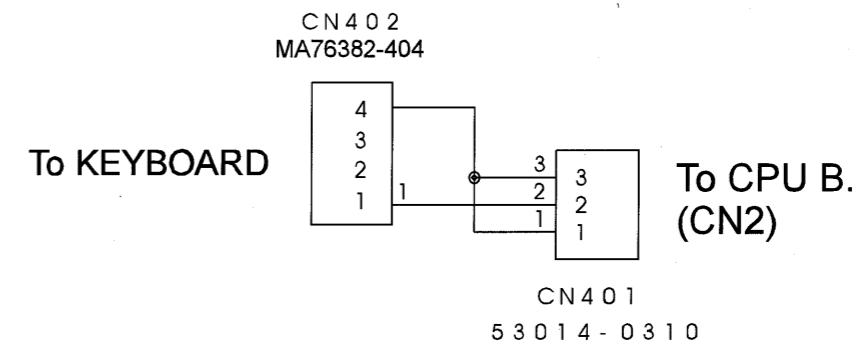
View from component side



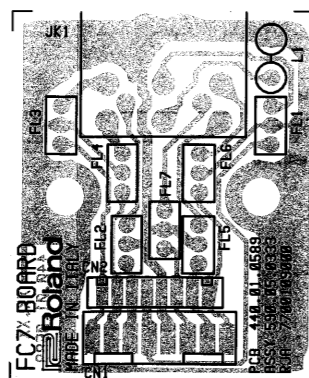
AFT PCB ASSY & CIRCUIT DIAGRAM ASSY 7699507000



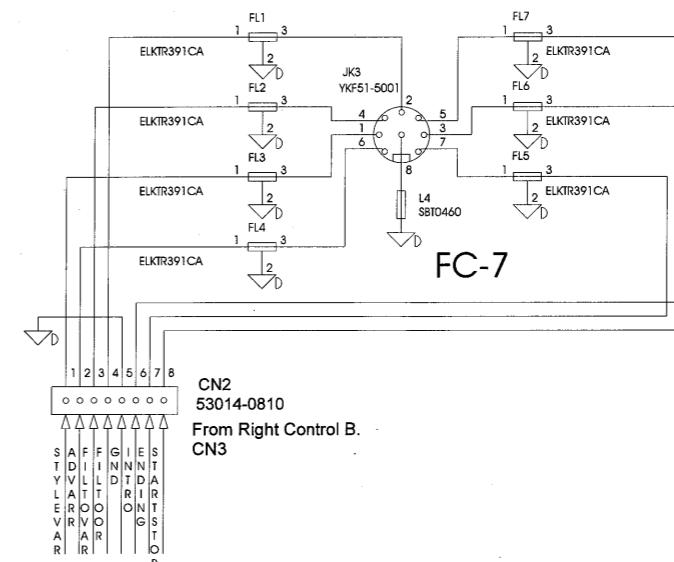
View from component side



FC7 PCB ASSY & CIRCUIT DIAGRAM ASSY 7700109000



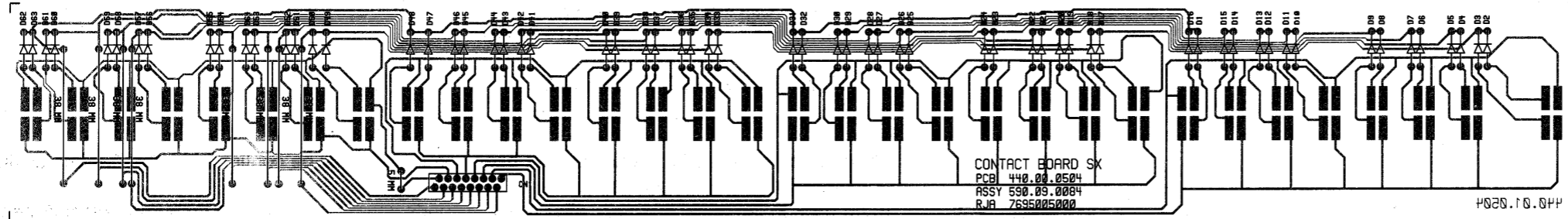
View from component side



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

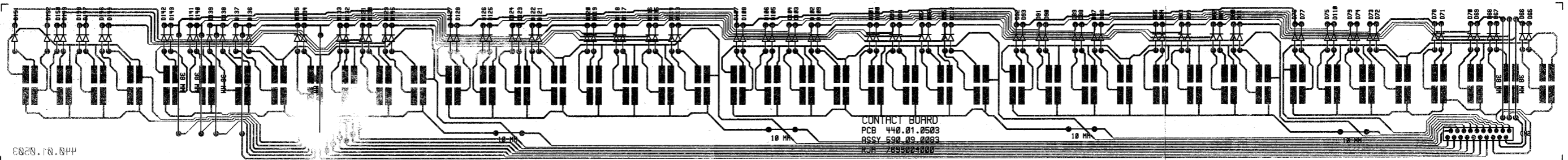
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LEFT CONTACT PCB ASSY w/RUBBER ASSY 7695005000



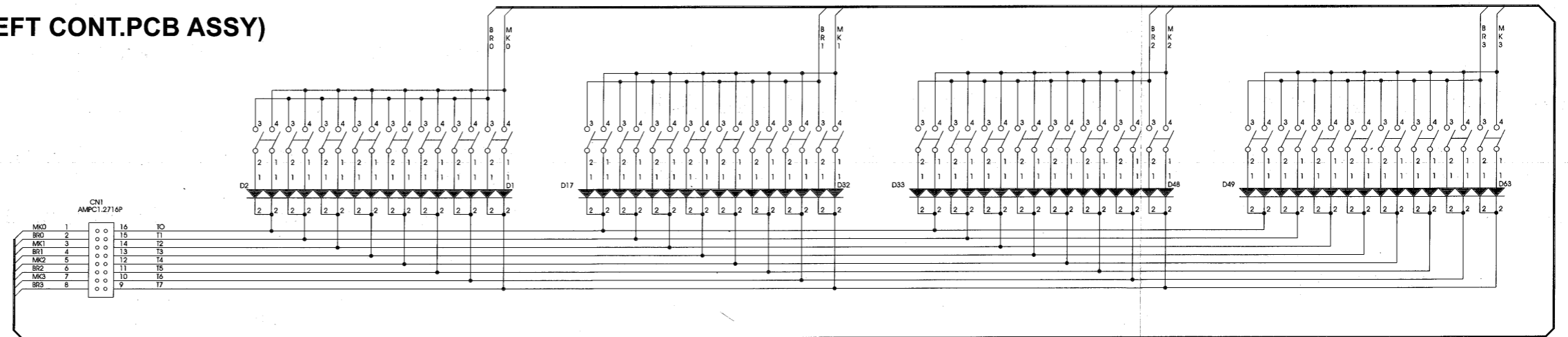
View from component side

RIGHT CONTACT PCB ASSY w/RUBBER ASSY 7695004000

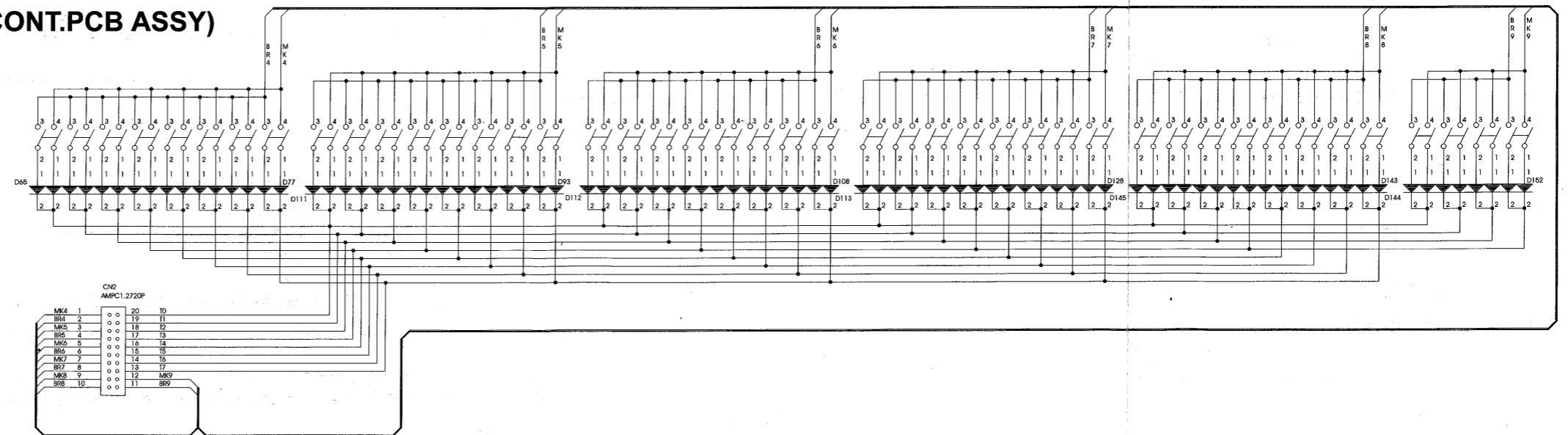


View from component side

CIRCUIT DIAGRAM (LEFT CONT.PCB ASSY)



CIRCUIT DIAGRAM (RIGHT CONT.PCB ASSY)



How to save / How to version up

Since G-1000 has a flash memory for the main program registration, you can make the software version up or the test program by floppy disks.

Item Required

G-1000 Version up disk (code: 7700137000)

G-1000 Test program (code: 7700138000)

ATTENTION:

The Test Program was not installed in this instrument (otherwise it would have occupied too much memory space). If you want to install it, you have to load the Test Program from the "Test Program G-1000" floppy disk you've been provided with.

Warning:

Loading the Test Program causes the Software Program of your G-1000 to be lost. Therefore every time you want to carry out some checks in your G-1000 and consequently have to install the related Test Program, **we strongly recommend** you to make a back-up copy of your G-1000 current software program, according to the procedure described in the << How to save the "Software Version" or the "Test Program" by Floppy disk >> paragraph.

Of course, once you've completed your checks, you'll have to reload the Software Program (that had been erased when installing the Test Program), as described in the << How to update the software version or the "Test Program" paragraph.

How to save the "Software Version" or the "Test Program" onto Floppy Disk.

Insert a Floppy Disk in which you'll save either the "Software Program" or the "Test Program"
Turn the instrument on while keeping the "TRANSPOSER" + "ONE / TOUCH" + OCTAVE "UP" buttons pressed.

The display shows:

```

SYSTEM SAVE

STYLE 1 to EXIT   STYLE 2 to CONTINUE
  
```

If you press the "Style 1" button, you'll exit the Flash saving mode and the instrument will go back to the initial program.
If you press "Style 2" you'll go on and save the program.

The display shows:

```

SYSTEM SAVE

Initialising . . .

ATTENTION !! Do not turn instrument off
  
```

Then after a few seconds the display will show:

```

SYSTEM SAVE

Sistem size [ BYTE ]      XXX
Checksum Calculation ..... DONE
Sistem saving ....      COMPLETED

<< TURN INSTRUMENT ON AGAIN >>
  
```

When the program saving operation has been completed it will be confirmed by the "Sistem saving Completed" message appearing on the display.
To go back to the initial program, after a few seconds you have to turn the instrument off and then on again.

How to update the Software Version or the Test Program by Floppy Disk

Insert the floppy disk containing either the Software program or the Test program into the FDD.
Then turn the instrument on while keeping the "Select" (Style /Midi Set) + "Gm/Gs mode" + "Bass Inversion" buttons pressed.

The display shows:

```

FLASH UPDATE

STYLE 1 to EXIT   STYLE 2 to CONTINUE
  
```

By pressing the "Style 1" button you will exit the Flash loading mode and the instrument will get back to the old program.

By pressing the "Style 2" button you'll start loading the Flash EPROM.

The display shows:

```

FLASH UPDATE

Initialising . . .

ATTENTION !! Do not turn instrument off
  
```

After a few seconds, the display shows:

```

FLASH UPDATE

Program loading ..... -----
Program checking ..... -----
Flash updating ..... -----

<< TURN INSTRUMENT ON AGAIN >>
  
```

If the loading operation of the Flash EPROM has been completed, you'll have the confirmation if the message "COMPLETED" is displayed. After a few seconds, you have to turn the instrument off and then on again.

TEST MODE

Main Test Menu

Ater loading the Test Program, turn the instrument on.
The Main Test Menù will be displayed, which is divided into two major groups: MUSIC STYLE and TONE.

G-1000 test Ver. x . x x	
Style	Tone
1 Switch	1 Flash
2 Encoder	2 Scsi
3 Adc	3 Rom Style
4 Lcd	4 Midi
5 Led	5 FDD
6 Keyscan	6 Audio Test
	7 Ram

To exit the Test Mode, turn the instrument off.

1. SWITCH test

Press the Music Style 1 button.
The display shows:

G-1000 SWITCH TEST	
Nome	XXXXX
	O N /OFF

Next.	XXXXX
Press Tone 8 and F5 to exit	

Action: every button, when pressed, will generate a sound. The LCD will consequently show the button name on the top of the left side as well as its ON/OFF status. On the bottom of the left side the name of the following button to be pressed will be shown. Every time a button has been checked, the asterisks disappear from the display.

Once all buttons have been subsequently pressed, you will automatically exit the Switch Test and get back to the Main Menù.

If you want to stop and exit the Switch Test, you can do it by pressing the "Tone 8" and "F5" buttons.

2. ENCODER check

Press the "music style 2" button

The display shows:

G-1000 TEST ENCODER			
Drums Part __>	0 - 255	Lower Num __>	0 - 255
Accomp Gr __>	0 - 255	Upper _Var __>	0 - 255
Bass Bank __>	0 - 255	Tempo __>	0 - 255
Press F5 to exit			

To exit, press F5.

3. ADC Check

Press the "music style 3" button.

The display shows:

G-1000 ADC TEST	
Foot switch = (On /Off)	Sust Foot switch = (On/Off)
Balance = (0 +/- 127)	After touch = (0-127)
Source 1 = (0 - 127)	Source. 2 = (0 - 127)
Express = (0 - 127)	Modulation = (0 - 127)
Bender = (0 +/- 127)	
** Press F5 to exit **	

To exit, press F5.

4. LCD Check

Press the "music style 4" button.

The display shows:

G-1000 LCD TEST		
Press F1	white	Test
Press F2	blue	Test
Press F3	normal	Test
Press F5 to exit		

Action:

If you press the "F1" button, the display will be white;

If you press the "F2" button, the display will be blue;

If you press the "F3" button, the display will show the numbers from '0' to '9';

To exit, press F5.

5. LED Check

Press the "music style 5" button.

The display shows:

```

G-1000 LED TEST ...

```

Note: Each LED will light subsequently, one after another; at the end of the sequence they will all be on.

The display shows:

```

G-1000 LED TEST ...
Press F1 to orange leds
Press F2 to green leds
Press F3 to red leds

Press F5 to exit

```

When you press "F1", all orange LEDs light;
 When you press "F2", all green LEDs light;
 When you press "F3", all red LEDs light;
 Make sure that all LEDs work properly and have the right colour.

To exit, press F5.

6. KEYSKAN Check

Press the "music style 6" button.

The display shows:

```

G-1000 KEY SCAN TEST
Key = XX          Velocity = 0 - 127
After Touch      [ 0 - 127 ]

** Press F5 to exit **

```

Action: a piano sound will be heard every time a key is pressed; you'll hear the aftertouch effect if you press a key till the end of its stroke. The LCD shows the key name, the velocity value and the aftertouch value

To exit, press F5.

Second group of checks**1. Flash EPROM**

Press the "tone 1" button

The display shows:

```

G-1000 FLASH TEST

Writing .....
Verifying .....
Block .....
Flash ..... OK or Error

Press F5 to exit

```

To exit, press F5.

Note: if there is an asterisk (*) beside the "Flash Test" item within the Main Menu, this means that this kind of check has already been carried out.

2. SCSI Test

Press the "tone 2" button

The display shows:

```

G-1000 TEST Scsi

Setup Scsi      : OK or Error

Scanning Drive : - - - - - 5 - X

Press F5 to exit

```

Note: To test the external SCSI input of G-1000, you have to connect it with an external peripheral. Please notice the identifier number, which will appear on the display in place of the corresponding dash beside "Scanning Drive". The identifier number cannot be either 5 or 7, because they are already used by G-1000.

To exit, press F5.

3. Style Rom

Press the "tone 3" button.

The display shows:

```

G-1000 ROM STYLE TEST

OK or Error

Press F5 to exit

```

To exit, press F5.

4. Midi TEST

Press the "tone 4" button.

The display shows:

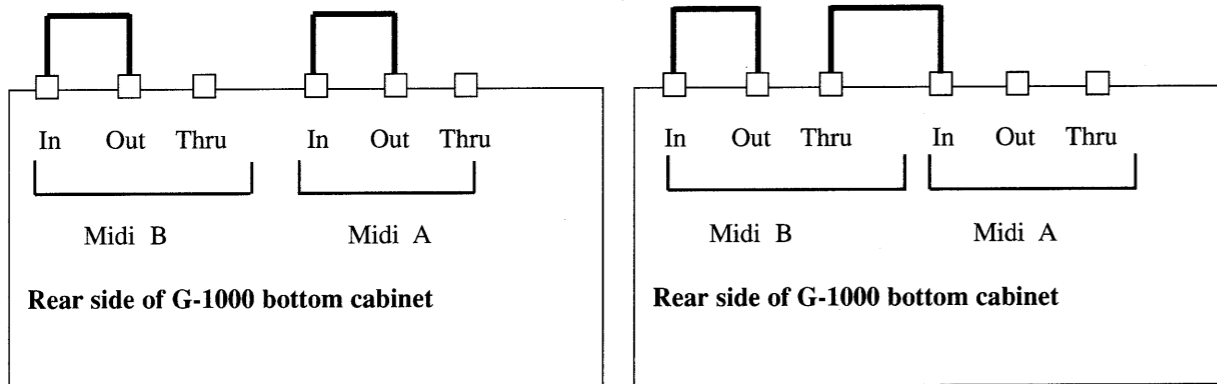
```

G-1000 MIDI TEST
Connect Midi A Out = to => Midi A In < OK or Error >
Connect Midi A Thru = to => Midi B In < OK or Error >

Connect Midi B Out = to => Midi B In < OK or Error >
Connect Midi B Thru = to => Midi A In < OK or Error >

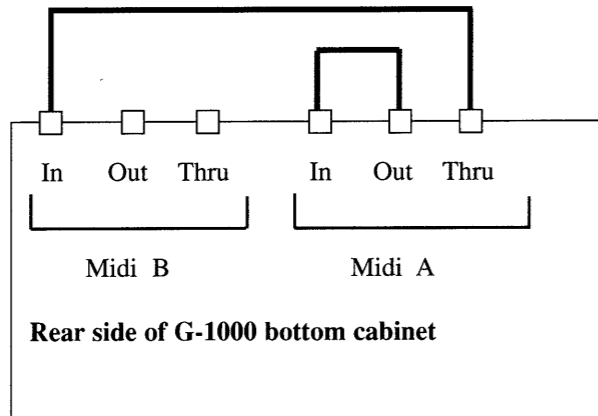
Press F5 to exit
    
```

Cable connections to check the MIDI outputs:



IN/OUT Connection in (A) and (B)

IN/OUT connection in (A) and connection of THRU (B) with IN (A)



IN/OUT connection in (A) and connection of THRU (A) with IN (B)

Once you have the G-1000 MIDI test screen display, connect the MIDI outputs by using the Midi cables as shown above. Make sure that "OK" appears on the screen display related to the MIDI Thru test.

To exit, press the F5.

5. FDD Test

Press the "tone 5" button.

The display shows:

```

G-1000 FDD TEST

Writing ...      Reading....      Verifying ....

                >>>> OK <<<<

Please eject disk
    
```

After a few seconds, the display will show:

```

G-1000 FDD TEST

Writing ...      Reading....      Verifying ....

                >>>> OK <<<<

Press F5 to exit
    
```

If the result isn't OK, one of the following errors will appear on the display:

- Read Error
- Write Error
- Verify Error

CAUTION: To check the FDD, use only a formatted disk, either DD or HD type.

To exit, press the "F5" button.

6. Audio Test

Press the "tone 6" button.

The display shows:

```

G-1000 Audio Test

                AUDIO TEST

Press F5 to exit
    
```

Once you've entered the audio test, some sounds will come out from the Mono R/L channels on "Out 1" will be mixed; they can be adjusted by the slider potentiometer under "Controls Volume". The sounds coming out from "Out 2" will be separated and cannot be adjusted. From the right channel of "Out 1" a sine wave sound will be heard, which has a 415 Hz frequency and a 2Vpp amplitude. From the left channel a sine wave sound will be heard, which has a 220 Hz frequency and a 2Vpp amplitude. From "Out 2" the same sounds will come out as from "Out 1", but their frequencies will be inverted and the

left/right channels will be separated. The sine wave sound on the right channel will have a 220 Hz frequency and a 2Vpp amplitude.

The sine wave sound on the left channel will have a 415 Hz frequency and a 2Vpp amplitude.

When the "Level" potentiometer is at maximum, a sine wave sound will also come out from the metronome "Out", with a frequency of 2330 Hz and an amplitude of 2Vpp. This is meant to check whether the metronome output and the corresponding "Level" potentiometer work properly.

To exit, press "F5".

7. Dynamic Ram

Press the "tone 7" button.

The display shows:

```

G-1000 TEST RAM

          OK or Error

Press F5 to exit
  
```

To exit, press "F5".

Calibration procedure to replace the Pitch Bender.

Load the "Software Program" into the instrument. Turn G-1000 on while keeping the "F2" button pressed.

After a few seconds, the display will show:

```

PITCH BENDER CALIBRATION

          CENTER POSITION

Then Press Upper 1 Key
  
```

Put the Bender lever in the middle while pressing the "Upper 1" button at the same time.

The display shows:

```

PITCH BENDER CALIBRATION

          ALL LEFT POSITION

Then Press Upper 1 Key
  
```

Move the Bender lever completely towards left while pressing the "Upper 1" button at the same time.

The display shows:

```

PITCH BENDER CALIBRATION
  
```

```

          ALL RIGHT POSITION
  
```

```

Then Press Upper 1 Key
  
```

Move the Bender lever completely towards right while pressing the "Upper 1" button at the same time. When the calibration has been completed, the instrument will automatically reset and go back to the initial screen display of the "Software Program".

How to visualize the "Software Program" version

Turn the instrument on while keeping the "WRITE" + "SHIFT" + RESET/TAP TEMPO buttons pressed.

After a few seconds the display shows:

```

G-1000 Arranger Keyboard

          Ver. XX . XX
Date Version : Day __ Month __ Year __

          CPU Bios Version: Ver. XX . XX
  
```

To exit from this screen display, turn the instrument off.