

G-800

SERVICE NOTES

INTELLIGENT SYNTHESIZER
64 VOICE POLYPHONY

First Edition

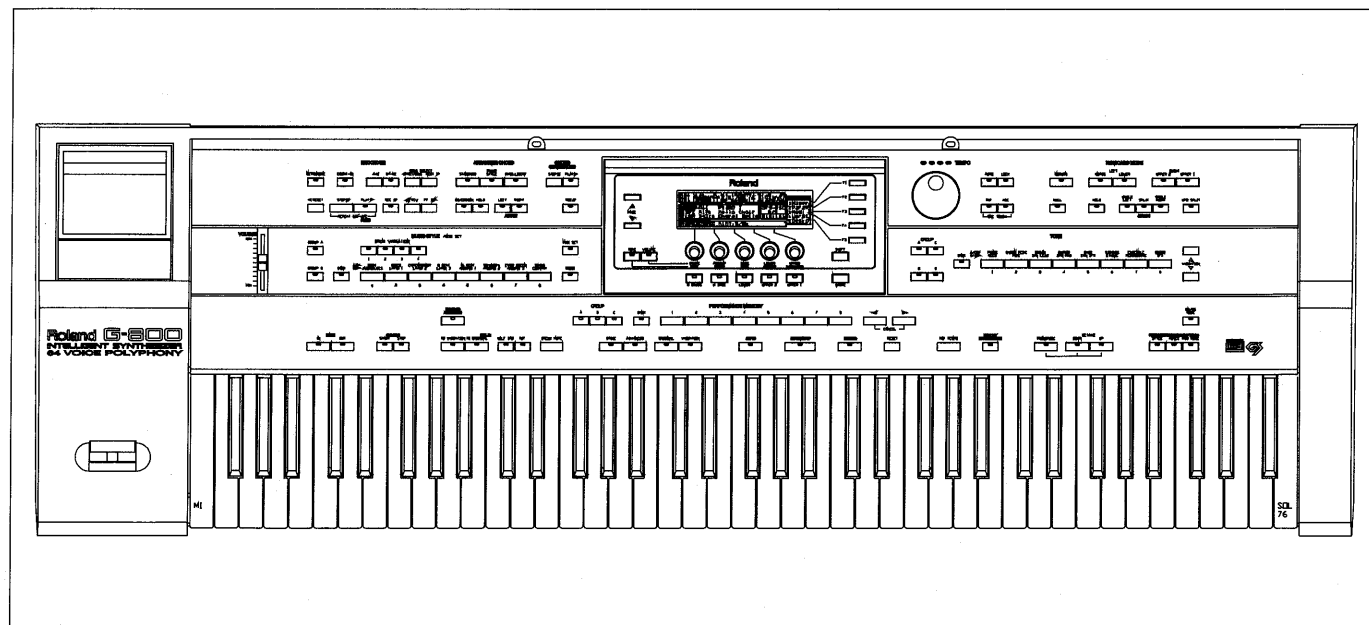
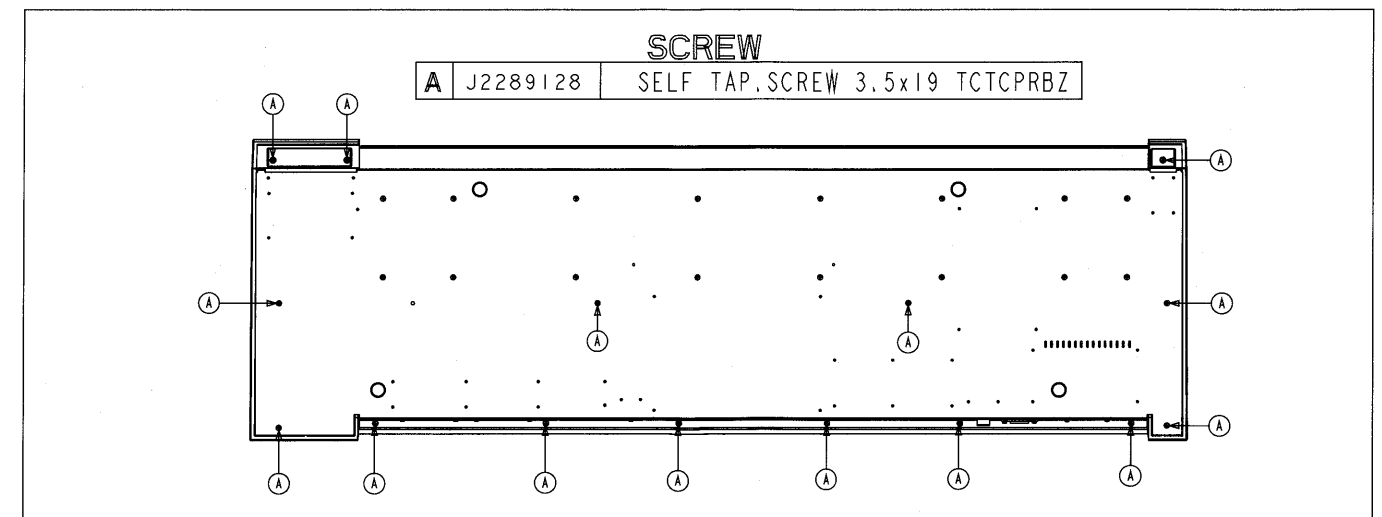
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SPECIFICATIONS

Keyboard.....	: 76 Weighted keys, velocity sensitive
Sound Source.....	: Newly developed(GS/GM-Format)
Number of Tones.....	: 689+25 Drum Sets(incl. 1 Oriental Drum Set)
Maximum Polyphony.....	: 64 Voices
Multitimbral Parts.....	: 32
Music Styles.....	: 128 and Variations, 8 Tracks
Resolution.....	: 120 ticks per quarter note
User Styles.....	: 8
Performance Memory.....	: 192
Midi Set.....	: 8
Song Composer.....	: Direct to Disk
Built-in Digital Effects.....	: Reverb, Chorus, Delay, Equalizer
Floppy Disk Drive.....	: SMF music data playback/recording, : ISM music data playback, : Data Load/Save for User Style, : User Style Set, Performance Memory, : MIDI Set, Chord Sequence
Rotary Encoder.....	: 6(1xLarge, 5xSmall)
Display.....	: Graphic 240x64 pixel backlit LCD
Wave Memory.....	: 10 Mbytes
Jack and Connections.....	: Phones Out : Stereo Out : Sustain : Foot Switch : Expression Pedal : Foot Controller (FC-7) : MIDI A (In, Out, Thru) : MIDI B (In, Out, Thru) : Metronome Out : AC Inlet
Controls.....	: Master Volume (Slider) : LCD Contrast (Rotative) : Metronome Level (Rotative) : Data Entry (Encoder) : Tempo (Encoder)
Stereo Output Level.....	: -4 dBm Master Volume : Max : Tone : Sine Wave : Play : C4 Key (Vel=Max) : Reverb : 0 (Zero)
Stereo Output Impedance.....	: 600 Ohm
Phones Output Level.....	: 0 dBm Master Volume : Max : Stereo Phones : 30 Ohm : Tone : Sine Wave : Play : C4 Key (Vel=Max) : Reverb : 0 (Zero)
Phones Output Impedance.....	: 100 Ohm
Minimum Phones Impedance.....	: 8 Ohm
Power Consumption.....	: 16W (AC 100V) : 18W (AC 117V) : 20W (AC 230V)
External Dimension.....	: 1267(W)x407(D)x150(H) mm : 49.88(W)x16.02(D)x5.91(H) inch
Weight.....	: 10kg/39.68lbs
Accessory.....	: Midi Guide (K6010109) : Midi Implementation (K6010106) : Player's Guide (E) (K6010105) : Reference Guide (E) (K6010107)
Options.....	: FC-7 Foot Controller, EV-5 Expression pedal, : DP-2, DP-6, or FS-5U Foot Switch, MSA, MSD : and MSE series Style Disk

DISASSEMBLY

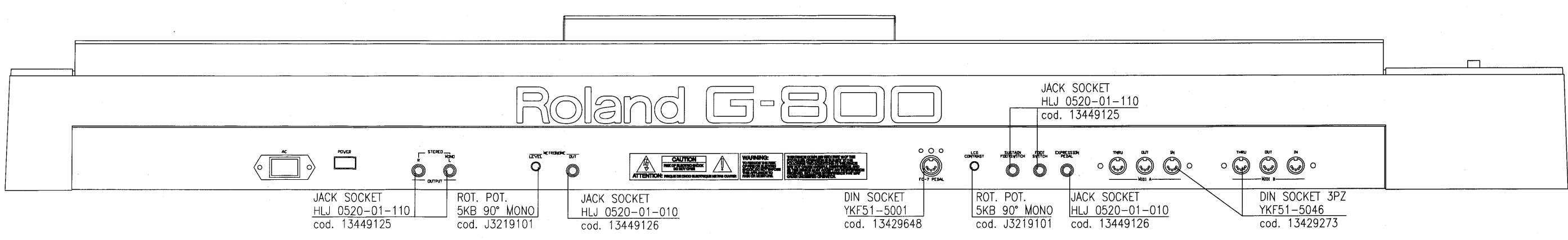
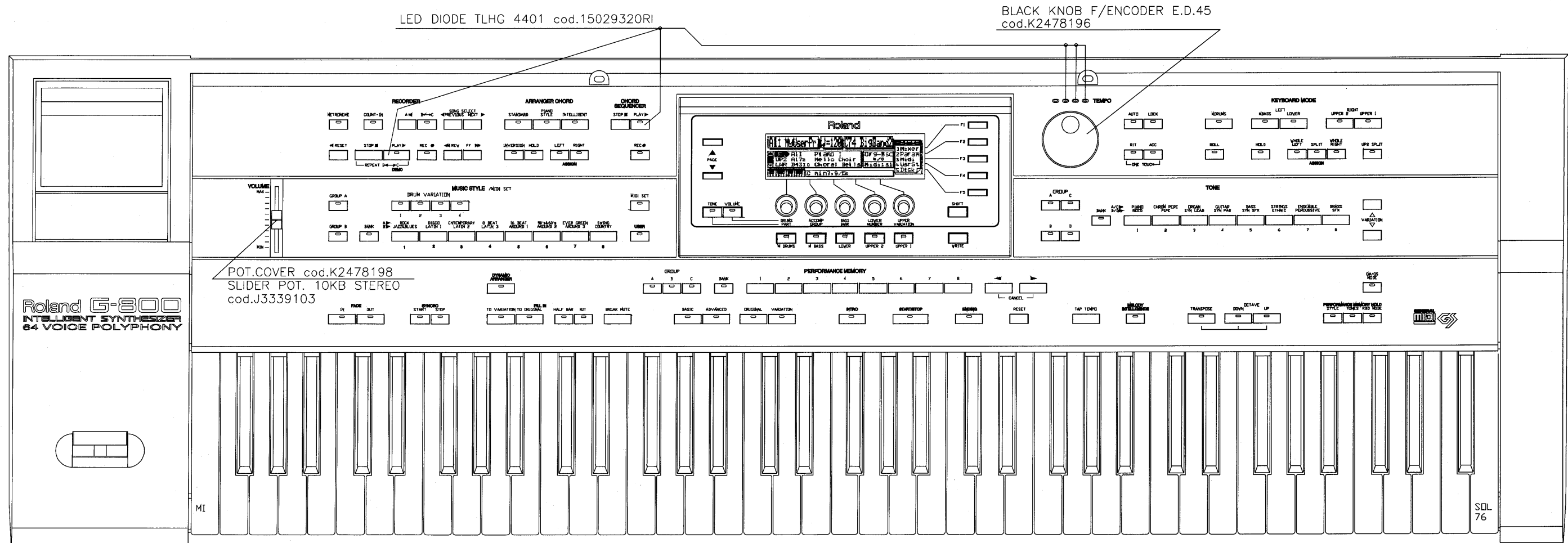


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LOCATION OF CONTROLS

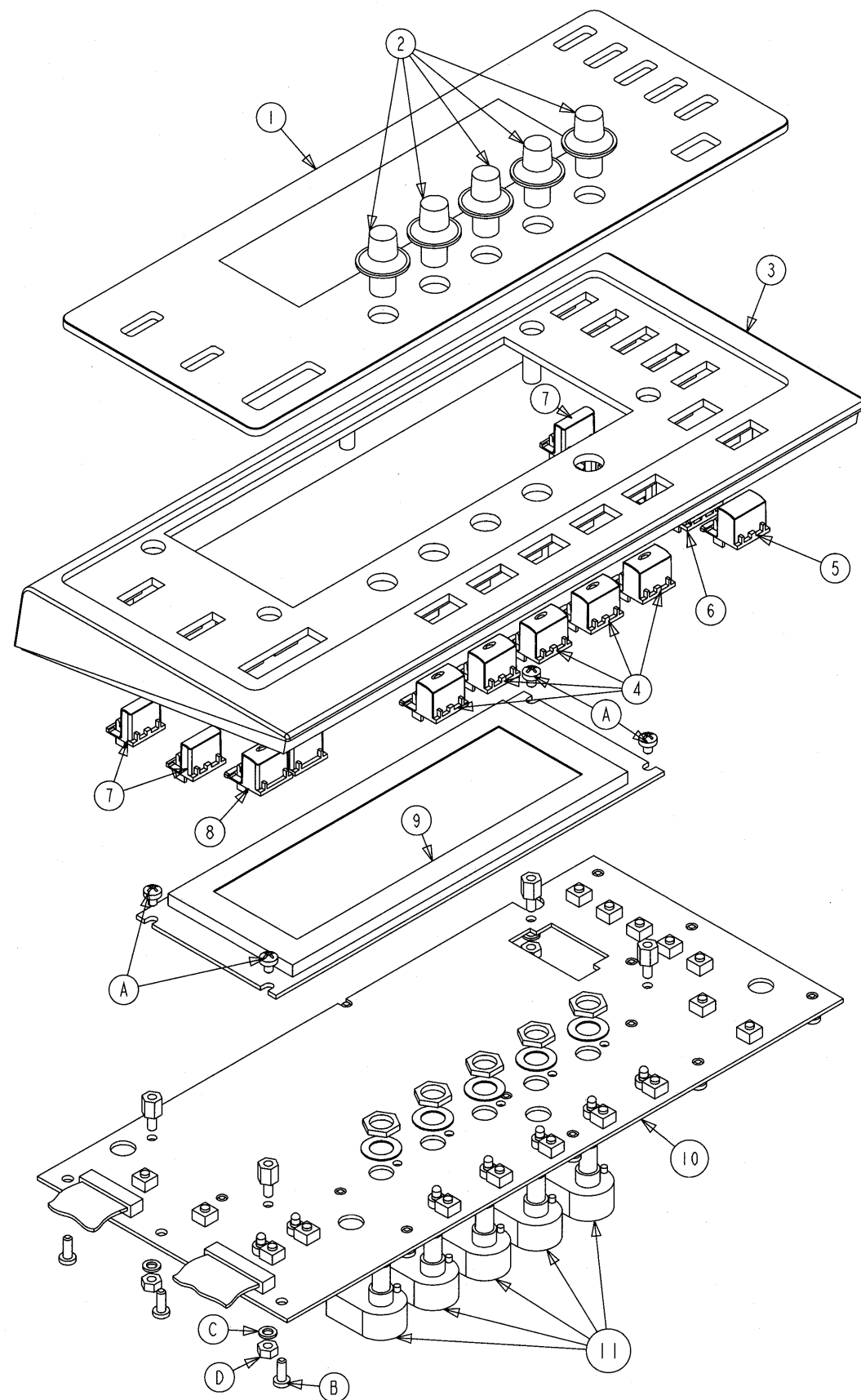
- ☐ KNOB 29x8 BLACK W/DIFFUSER cod.K2478199
- ☐ KNOB GROUP 22x8 BLACK W/DIFFUSER cod.K2478200
- ☐ KNOB GROUP 15x8 BLACK W/DIFFUSER cod.K2478201
- ☐ KNOB GROUP 22x8 BLACK cod.K2478202
- ☐ KNOB GROUP 15x8 BLACK cod.K2478203

* ALL SWITCHES ARE: SWITCH TYPE EVQ-QVT Ø5G cod. 13129753RI
 * ALL LEDS ARE: LED DIODE TLHR4401 cod.15029284RI



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EXPLODED VIEW 1



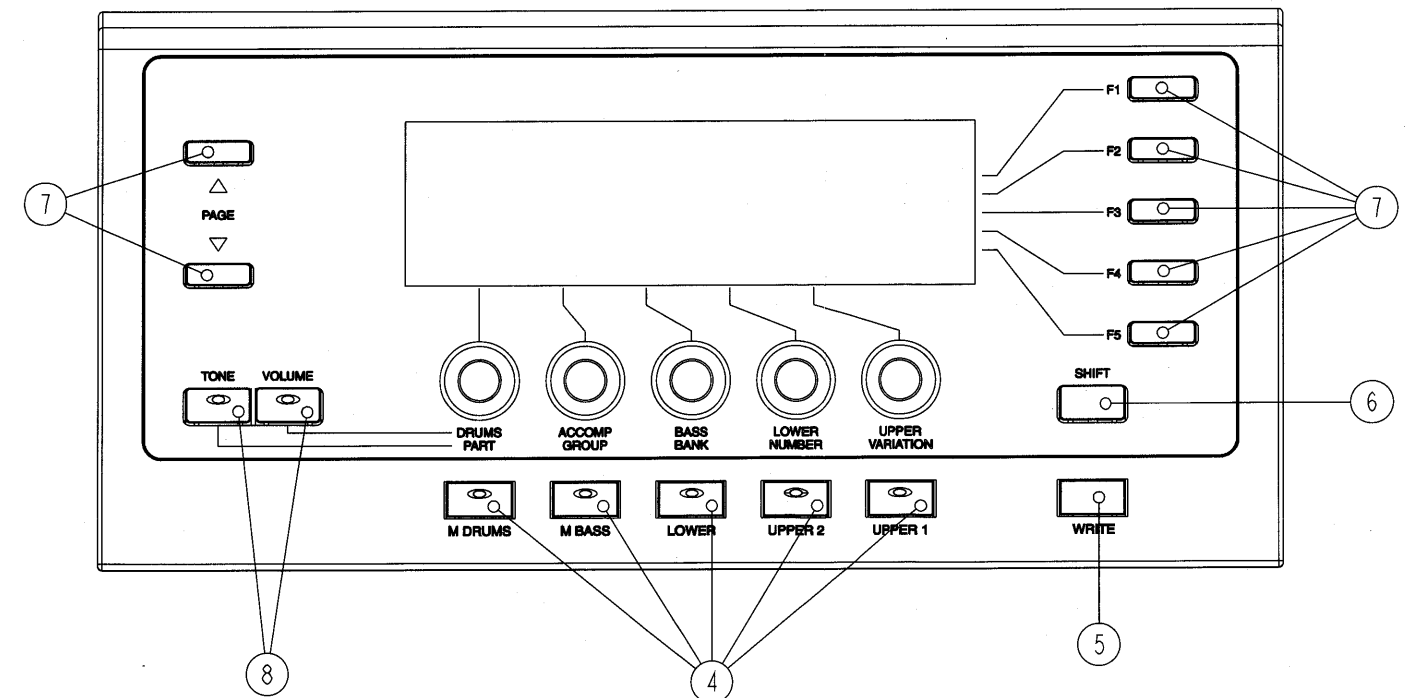
PARTS

N.	PARTS N.	PARTS NAME
1	00787890	SILKSCR. PLEXIGLASS G-800
2	K2478197	BLACK KNOB F/ENCODER E.D.18
3	7697238000	VARN+SILK. LCD CONTROL SUPPORT
4	K2478201	KNOB GROUP 15x8 W/DIFF.-BLACK-/ LED DIODE TLHR-4401(15029284R1)
5	K2478203	KNOB GROUP 15x8 -BLACK
6	K2478206	KNOB COUPLE 15x8 -BLACK-
7	K2478204	BLACK KNOB 15x5
8	K2478205	KNOB COUPLE 15x8 W/DIFF.-BLACK-/ LED DIODE TLHR-4401(15029284R1)
9	7697231000	LCD ASSY G-800
10	7697209000	CENTRAL CONTROLS PCB ASSY G-800
11	J3119101	ENCODER EVQ-WQK F15-24B

* ALL SWITCHES ARE: SWITCH TYPE EVQ-QVT 05G (13129753R1)

SCREW

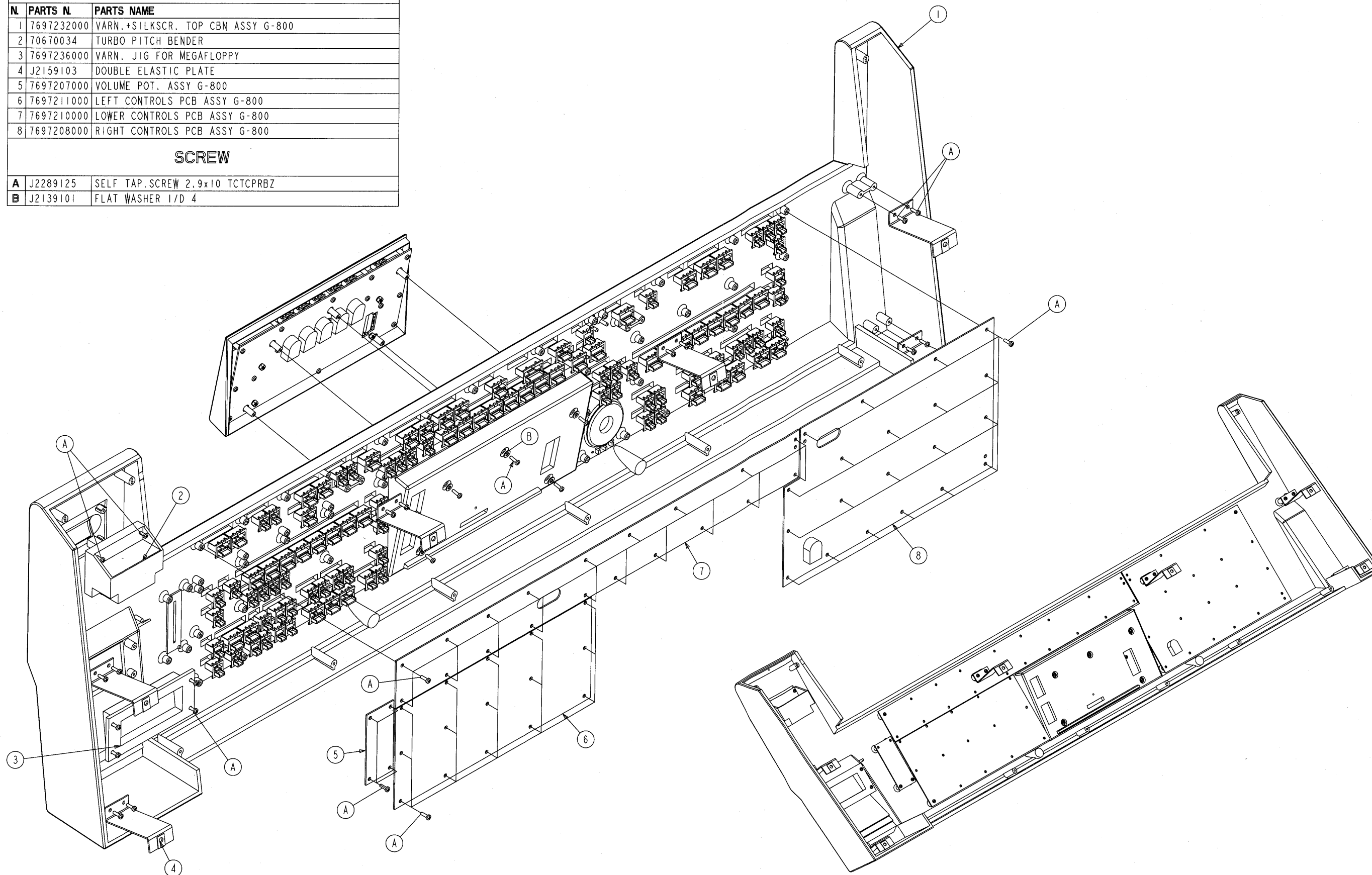
A	J2289111	SELF LOCK.SCREW M3x4 TCTC H.6
B	J2289126	SELF TAP.SCREW 2.9x8 TCTCPRBZ
C	J2139102	TOOTHED WASHER I.D.3
D	J2289113	NUT 3MA H.3



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EXPLODED VIEW 2

PARTS		
N	PARTS N	PARTS NAME
1	7697232000	VARN.+SILKSCR. TOP CBN ASSY G-800
2	70670034	TURBO PITCH BENDER
3	7697236000	VARN. JIG FOR MEGAFLOPPY
4	J2159103	DOUBLE ELASTIC PLATE
5	7697207000	VOLUME POT. ASSY G-800
6	7697211000	LEFT CONTROLS PCB ASSY G-800
7	7697210000	LOWER CONTROLS PCB ASSY G-800
8	7697208000	RIGHT CONTROLS PCB ASSY G-800
SCREW		
A	J2289125	SELF TAP.SCREW 2.9x10 TCTCPBZ
B	J2139101	FLAT WASHER 1/D 4

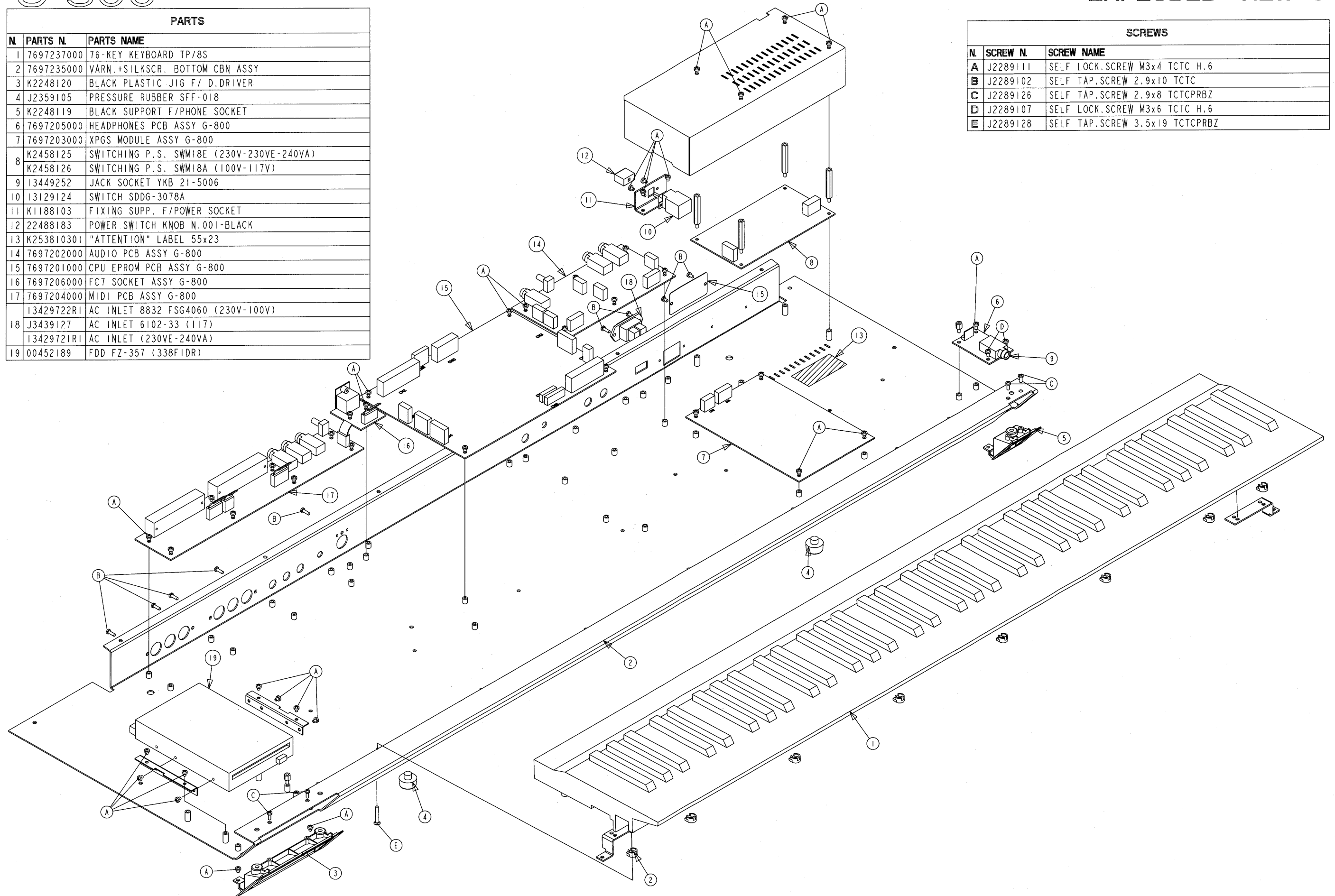


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EXPLODED VIEW 3

PARTS		
N.	PARTS N.	PARTS NAME
1	7697237000	76-KEY KEYBOARD TP/8S
2	7697235000	VARN.+SILKSCR. BOTTOM CBN ASSY
3	K2248120	BLACK PLASTIC JIG F/ D.DRIVER
4	J2359105	PRESSURE RUBBER SFF-018
5	K2248119	BLACK SUPPORT F/PHONE SOCKET
6	7697205000	HEADPHONES PCB ASSY G-800
7	7697203000	XPGS MODULE ASSY G-800
8	K2458125	SWITCHING P.S. SWM18E (230V-230VE-240VA)
	K2458126	SWITCHING P.S. SWM18A (100V-117V)
9	13449252	JACK SOCKET YKB 21-5006
10	13129124	SWITCH SDDG-3078A
11	K1188103	FIXING SUPP. F/POWER SOCKET
12	22488183	POWER SWITCH KNOB N.001-BLACK
13	K253810301	"ATTENTION" LABEL 55x23
14	7697202000	AUDIO PCB ASSY G-800
15	7697201000	CPU EPROM PCB ASSY G-800
16	7697206000	FC7 SOCKET ASSY G-800
17	7697204000	MIDI PCB ASSY G-800
	13429722R1	AC INLET 8832 FSG4060 (230V-100V)
18	J3439127	AC INLET 6102-33 (117)
	13429721R1	AC INLET (230VE-240VA)
19	00452189	FDD FZ-357 (338FIDR)

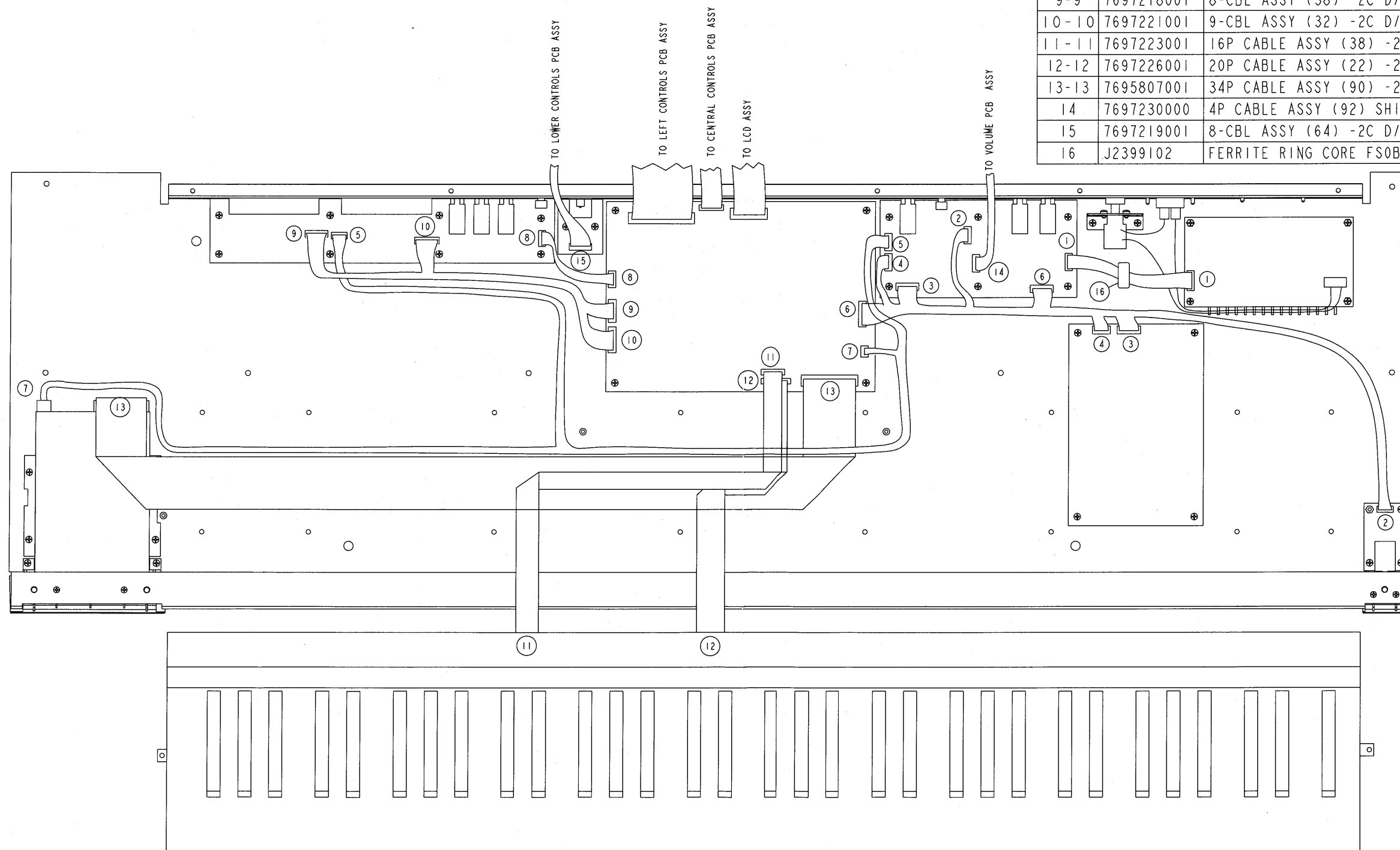
SCREWS		
N.	SCREW N.	SCREW NAME
A	J2289111	SELF LOCK.SCREW M3x4 TCTC H.6
B	J2289102	SELF TAP.SCREW 2.9x10 TCTC
C	J2289126	SELF TAP.SCREW 2.9x8 TCTCPRBZ
D	J2289107	SELF LOCK.SCREW M3x6 TCTC H.6
E	J2289128	SELF TAP.SCREW 3.5x19 TCTCPRBZ



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WIRING DIAGRAM

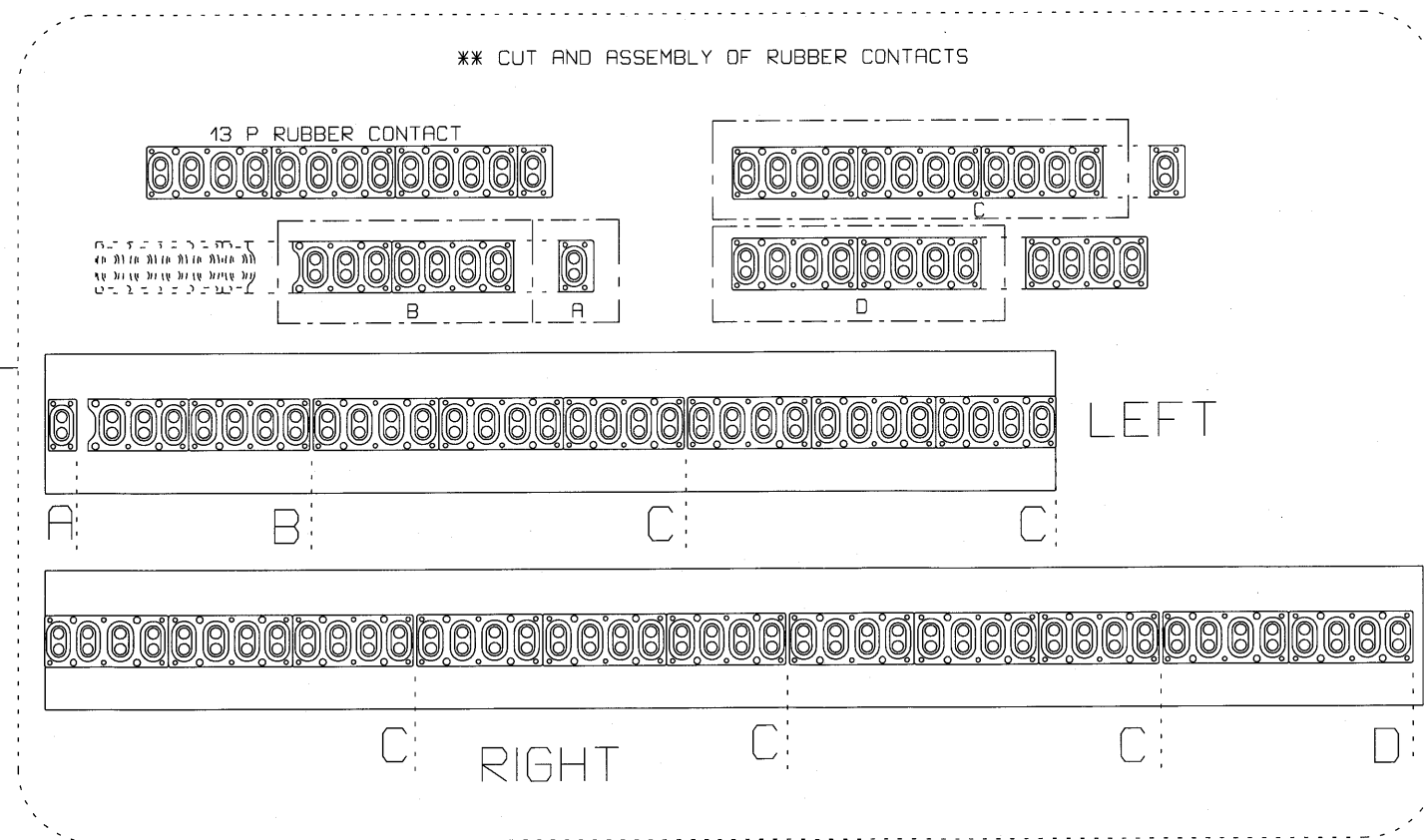
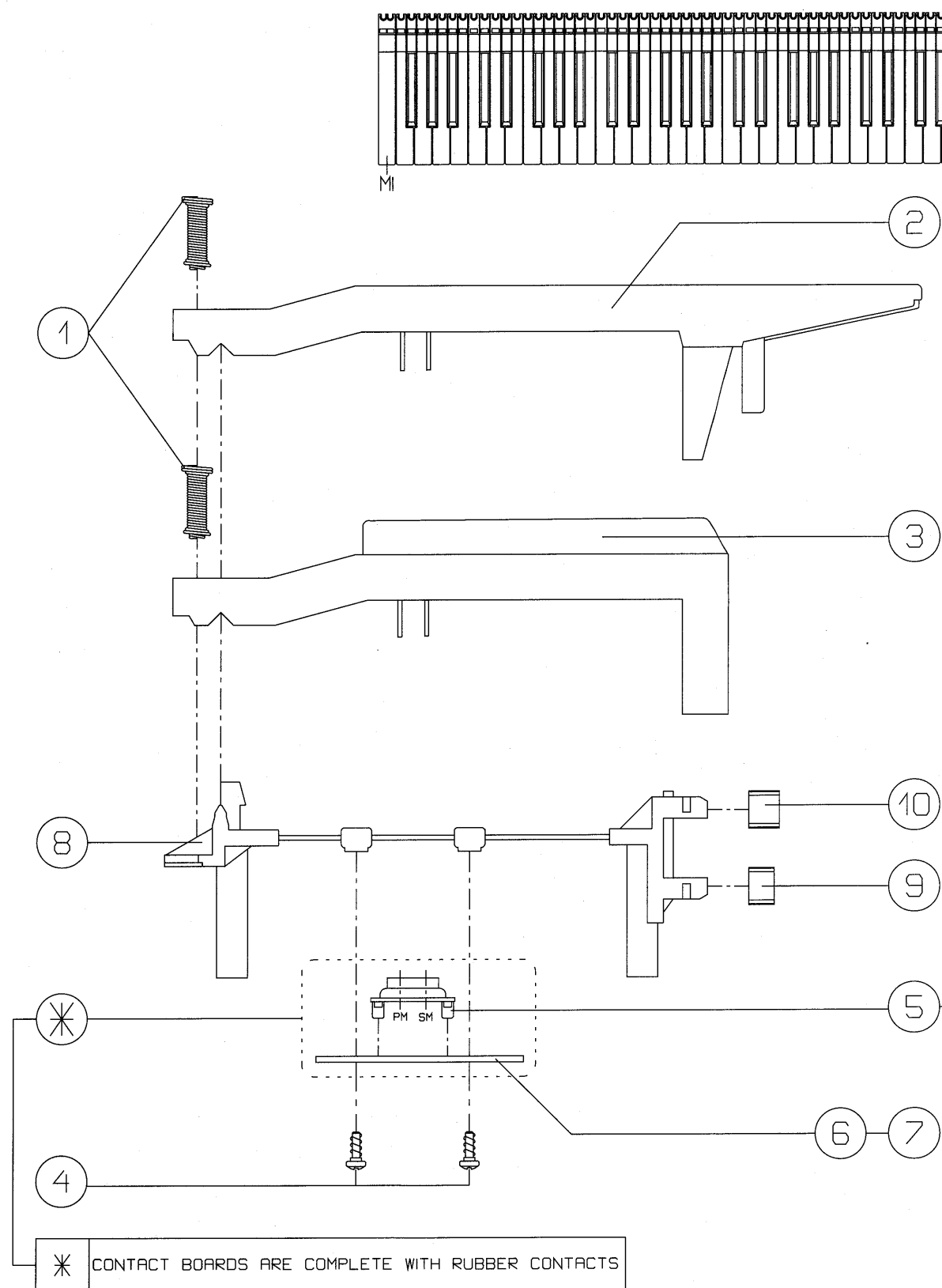
PARTS		
N.	PARTS N.	PARTS NAME
1-1	7697215001	7-CBL ASSY (16) -2C D/R
2-2	7697212001	6-CBL ASSY (64) -2C D/R
3-3	7697220001	8-CBL ASSY (32) -2C D/R
4-4	7697217001	6-CBL ASSY (30) -2C D/R
5-5	7697214001	6-CBL ASSY (90) -2C D/R
6-6	7316407001	9-CBL ASSY (22) -2C D/D
7-7	7697229000	3-CBL ASSY (100) -2C (4P)
8-8	7697216001	6-CBL ASSY (16) -2C D/R
9-9	7697218001	8-CBL ASSY (38) -2C D/R
10-10	7697221001	9-CBL ASSY (32) -2C D/R
11-11	7697223001	16P CABLE ASSY (38) -2C
12-12	7697226001	20P CABLE ASSY (22) -2C
13-13	7695807001	34P CABLE ASSY (90) -2C
14	7697230000	4P CABLE ASSY (92) SHIELDED
15	7697219001	8-CBL ASSY (64) -2C D/R
16	J2399102	FERRITE RING CORE FS0B190RT



76-KEY KEYBOARD TP/8S Cod. 7697237000

KEYBOARD PARTS LIST

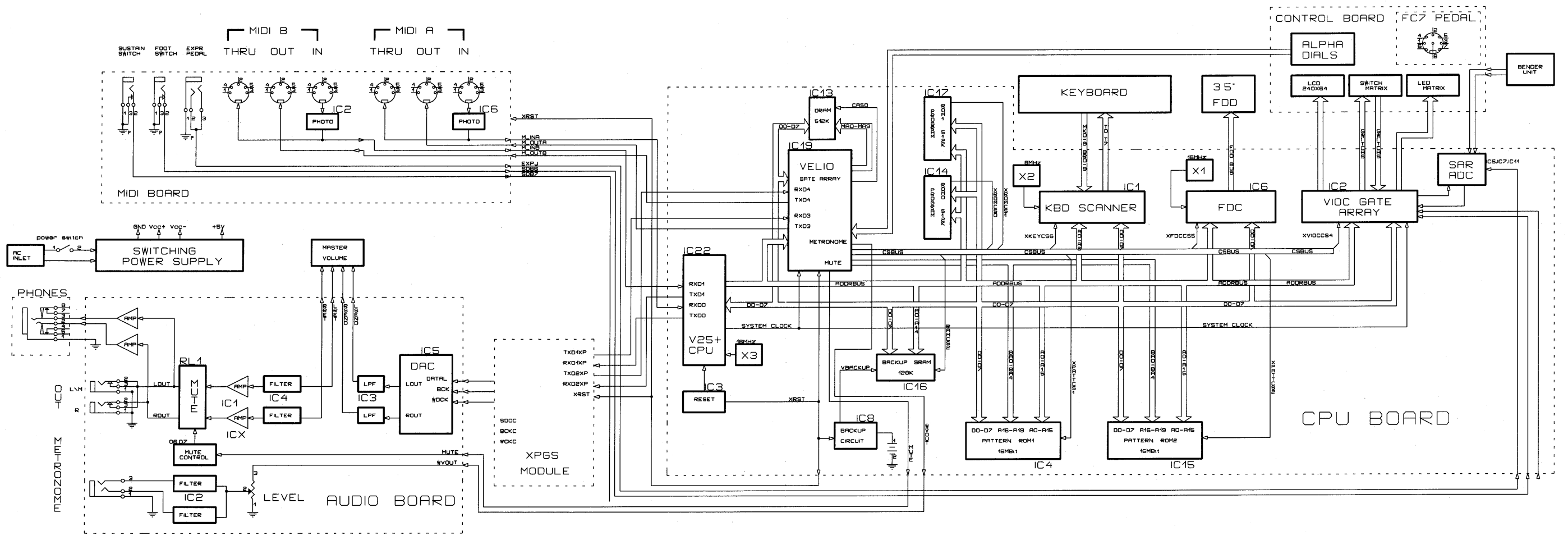
Ref	Description	Code	n
1	KEY SPRING gr60 ort122	J2179107	76
2	NATURAL KEY C8 (gr20) TP/8S MI(I)	J2579171	1
	NATURAL KEY C (gr20) TP/8S DO	J2579172	6
	NATURAL KEY D (gr20) TP/8S RE	J2579173	6
	NATURAL KEY E (gr20) TP/8S MI	J2579174	6
	NATURAL KEY F (gr20) TP/8S FA	J2579175	7
	NATURAL KEY G (gr20) TP/8S SOL	J2579176	6
	NATURAL KEY A (gr20) TP/8S LA	J2579177	6
	NATURAL KEY B (gr20) TP/8S SI	J2579178	6
	NATURAL KEY G2 (gr20) TP/8S SOL(F)	J2579179	1
3	SHARP KEY (gr16) TP/8S	J2579180	31
4	SELF TAP SCREW 2.9x8mm TC TC PR BZ	J2289126	42
5	13P RUBBER CONTACT	J3169101	7**
6	LEFT CONTACT PCB ASSY+RUBBER	7695005000	1
7	RIGHT CONTACT PCB ASSY+RUBBER	7695004000	1
8	76-KEY KEYBOARD CHASSIS TP/8S	J2579181	1
9	GUIDE BUSHING INFERIOR	J2359104	45
10	GUIDE BUSHING SUPERIOR	22158789	76



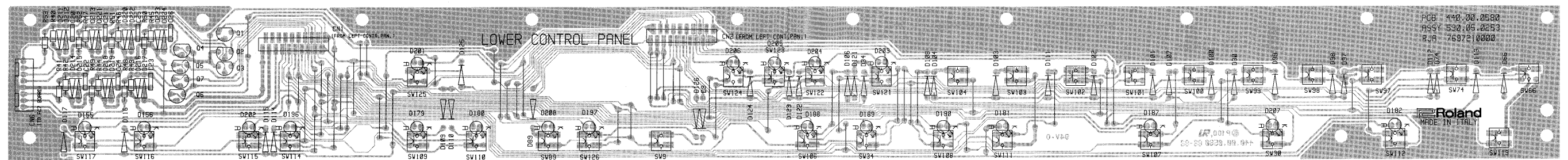
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

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BLOCK DIAGRAM



LOWER CONTROL PCB ASSY (or LOWER CONTROL BOARD)

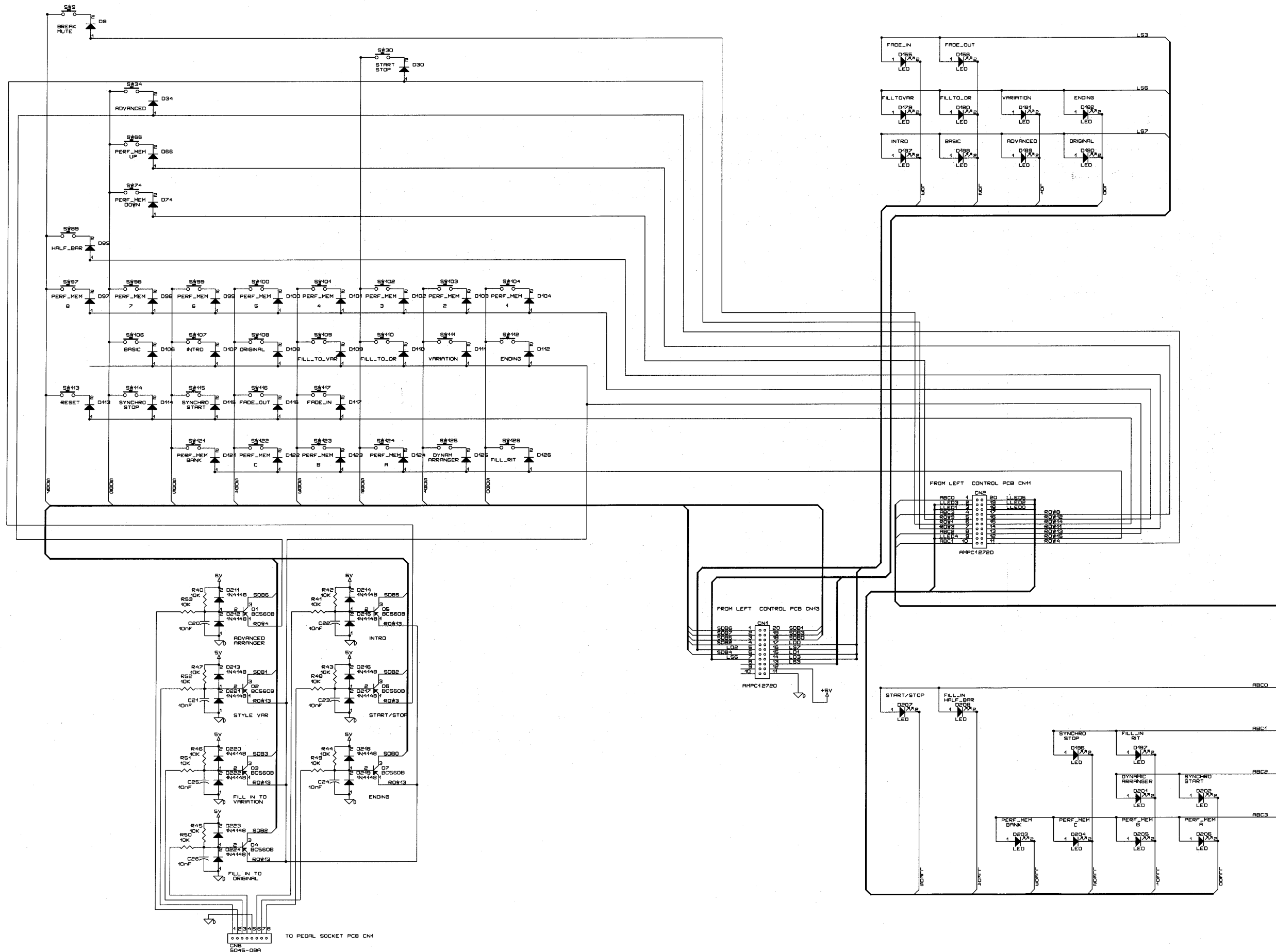


View from component side

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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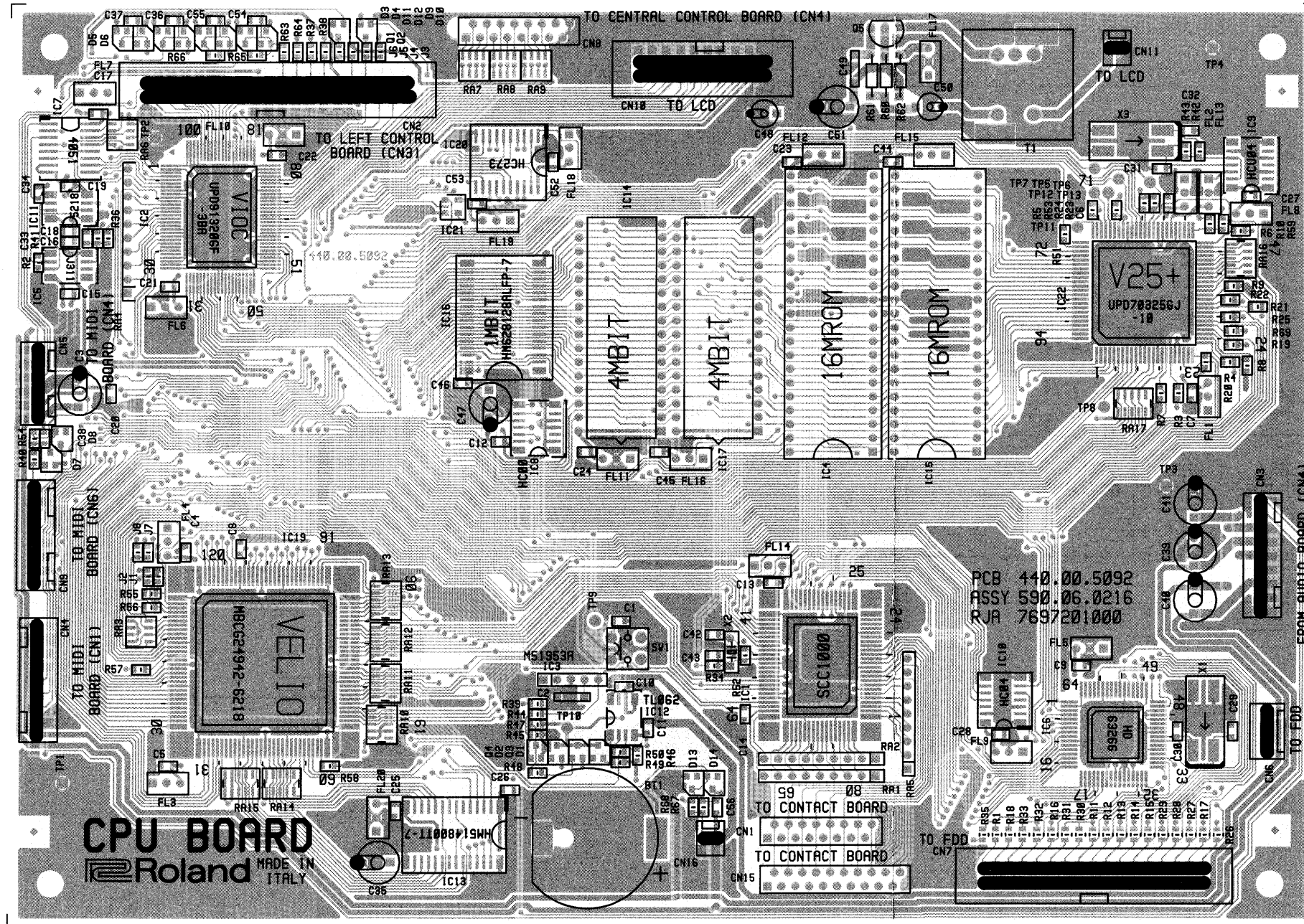
CIRCUIT DIAGRAM (LOWER CONTROL BOARD)



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CPU PCB ASSY(or CPU BOARD)



View from component side

For Nordic Countries

Apparatus containing Lithium batteries

ADVARSEL!

Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering. Udsiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

ADVARSEL!

Lithiumbatteri - Eksplosjonsfare. Ved utskifting benyttes kun batteri som anbefalt av apparatfabrikanten. Brukt batteri returneres apparatleverandøren.

VARNING!

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

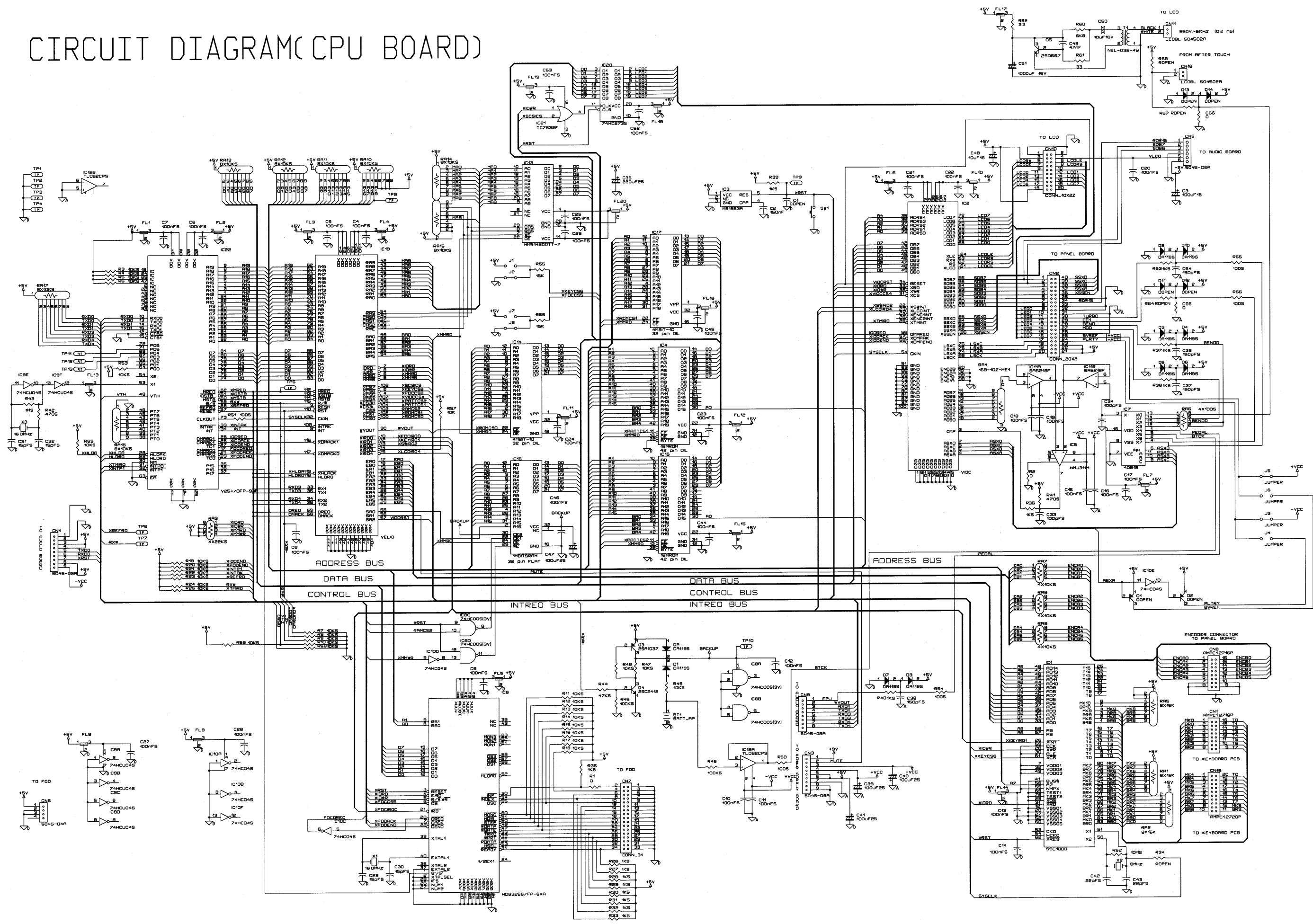
VAROITUS!

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

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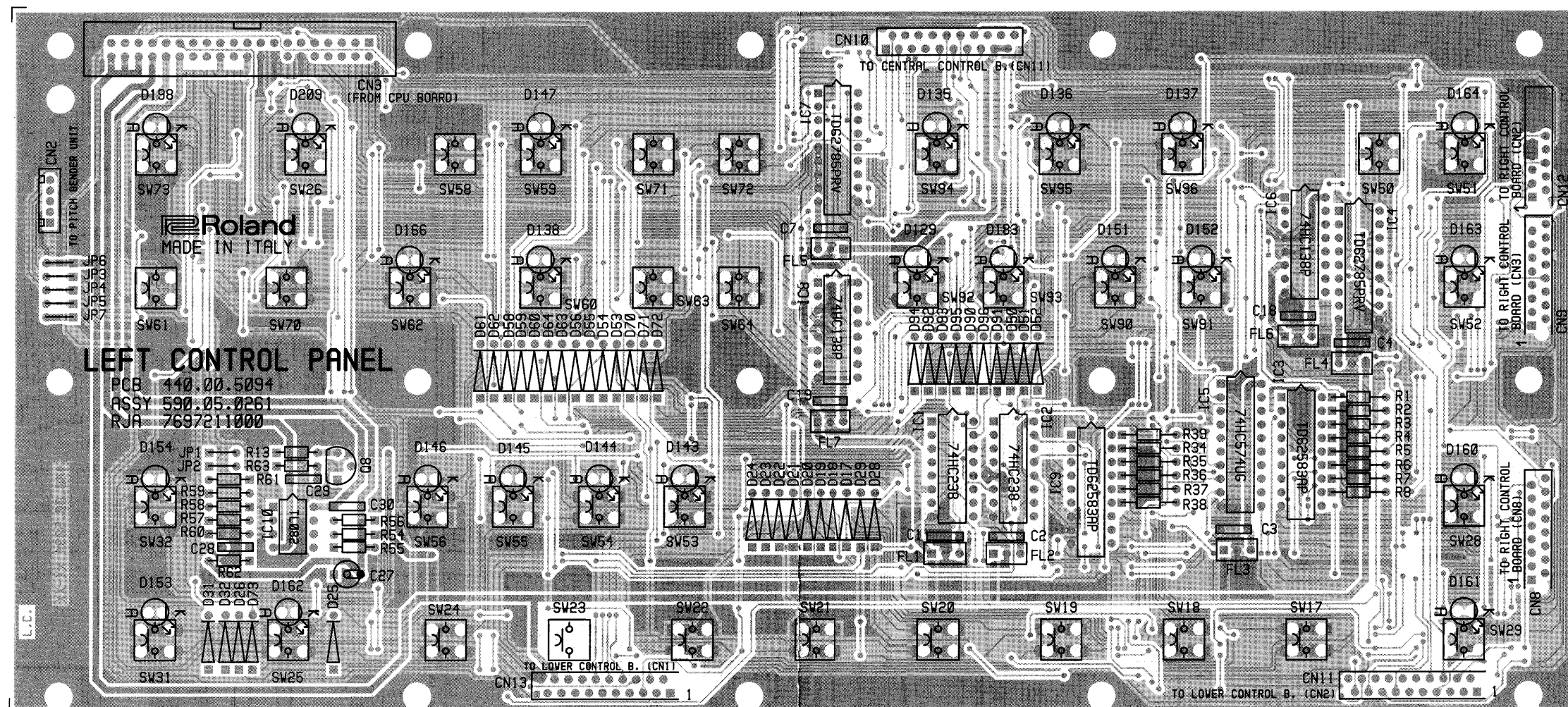
CIRCUIT DIAGRAM(CPU BOARD)



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LEFT CONTROL PCB ASSY (or LEFT CONTROL BOARD)

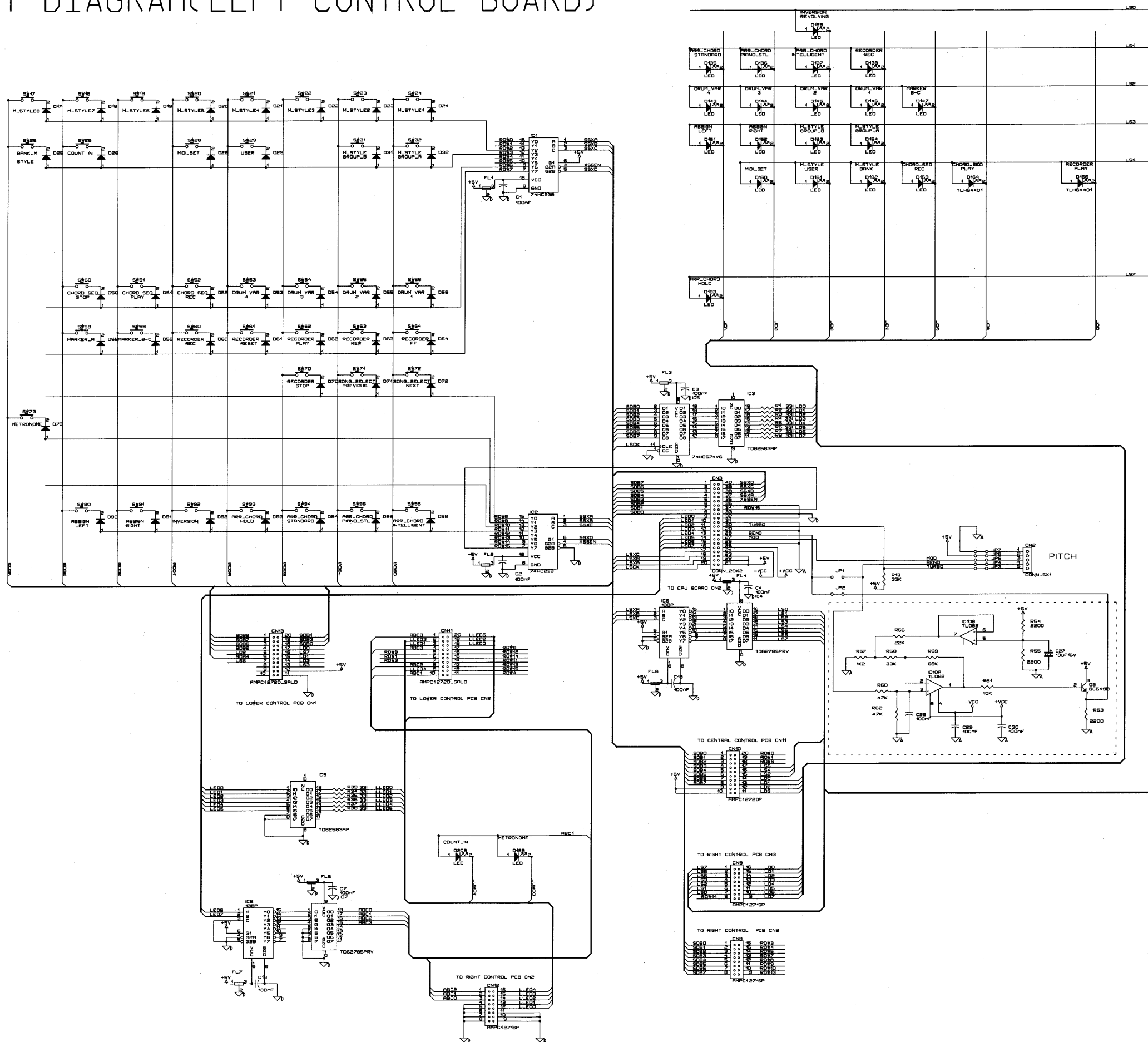


View from component side

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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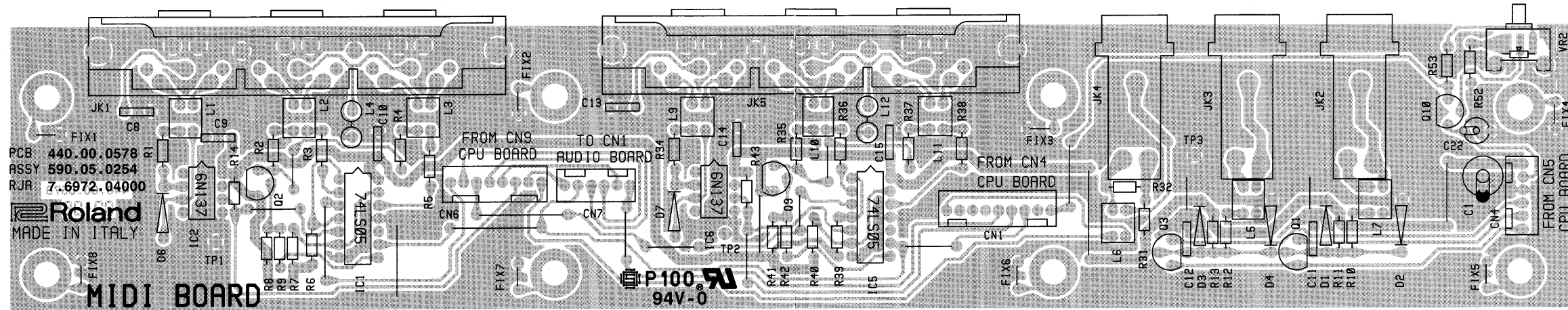
CIRCUIT DIAGRAM(LEFT CONTROL BOARD)



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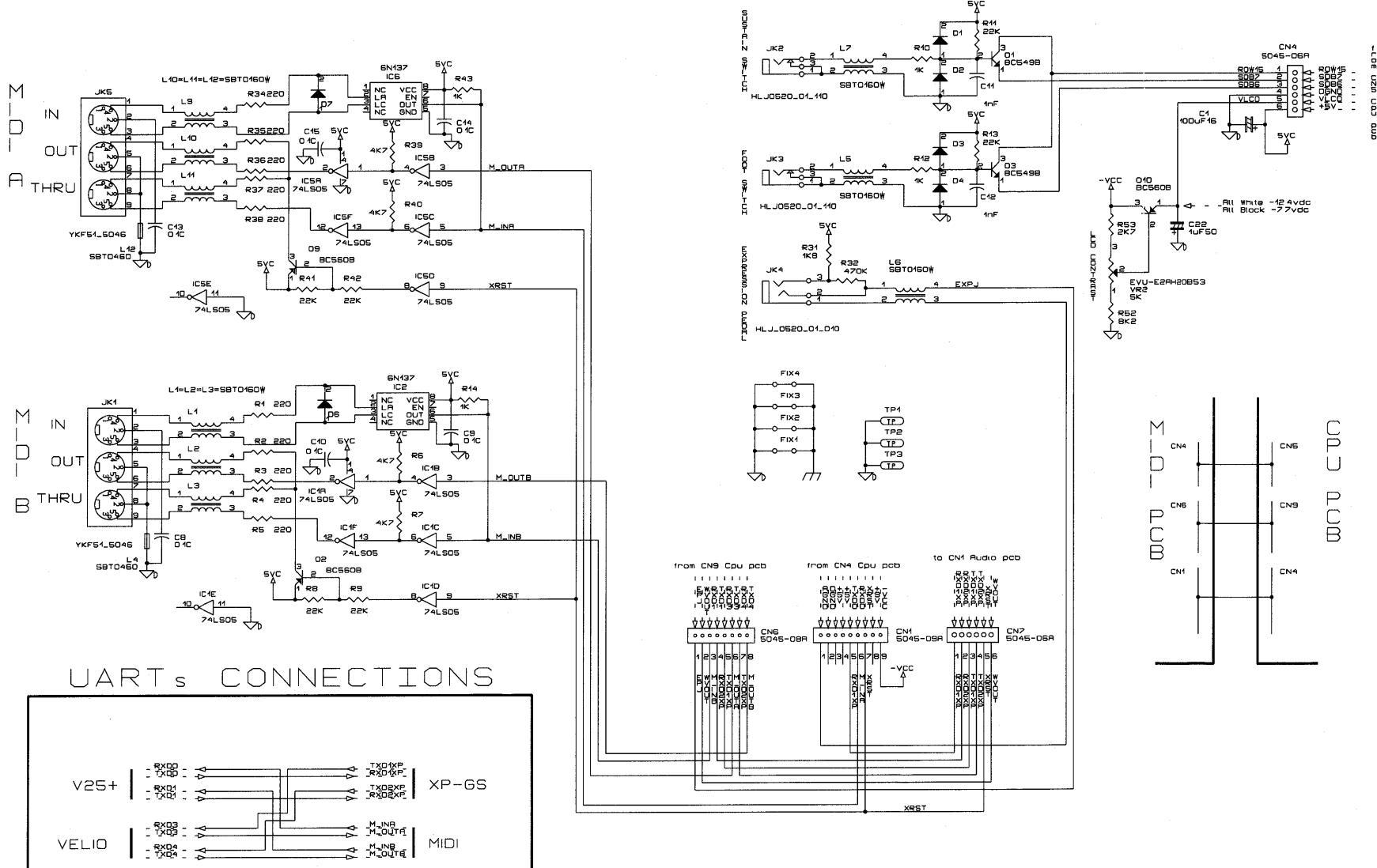
A MIDI PCB ASSY (or MIDI BOARD)

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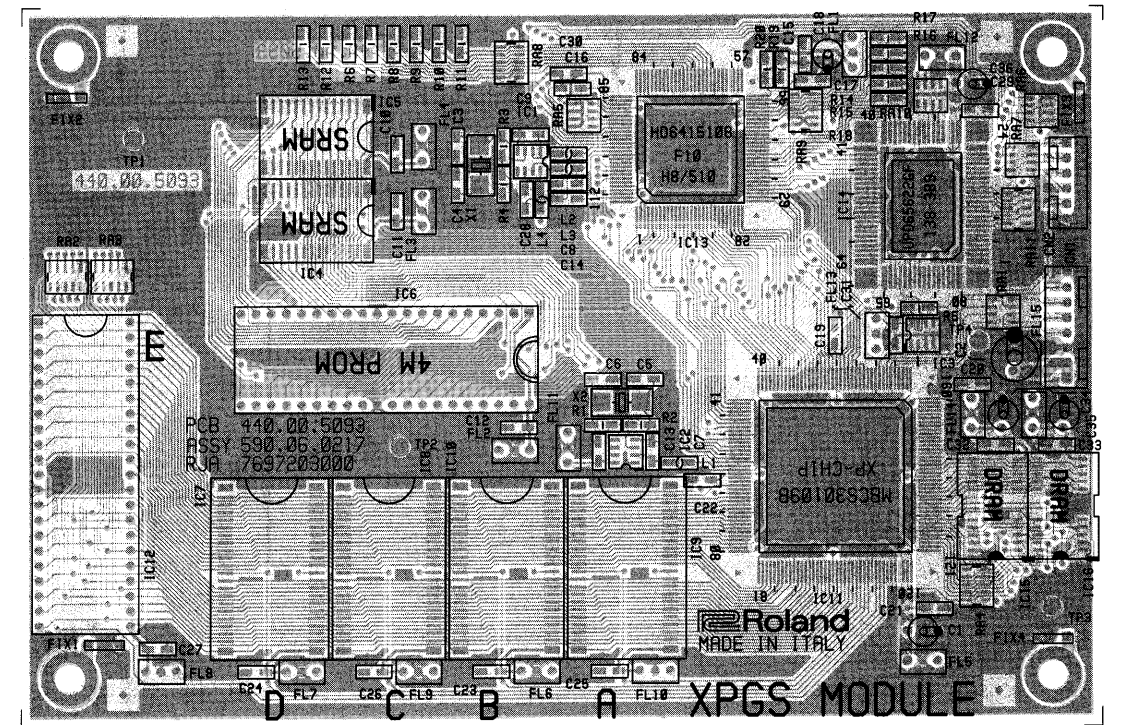


View from component side

CIRCUIT DIAGRAM (MIDI BOARD)



XPGS MODULE PCB ASSY (or XPGS MODULE BOARD)

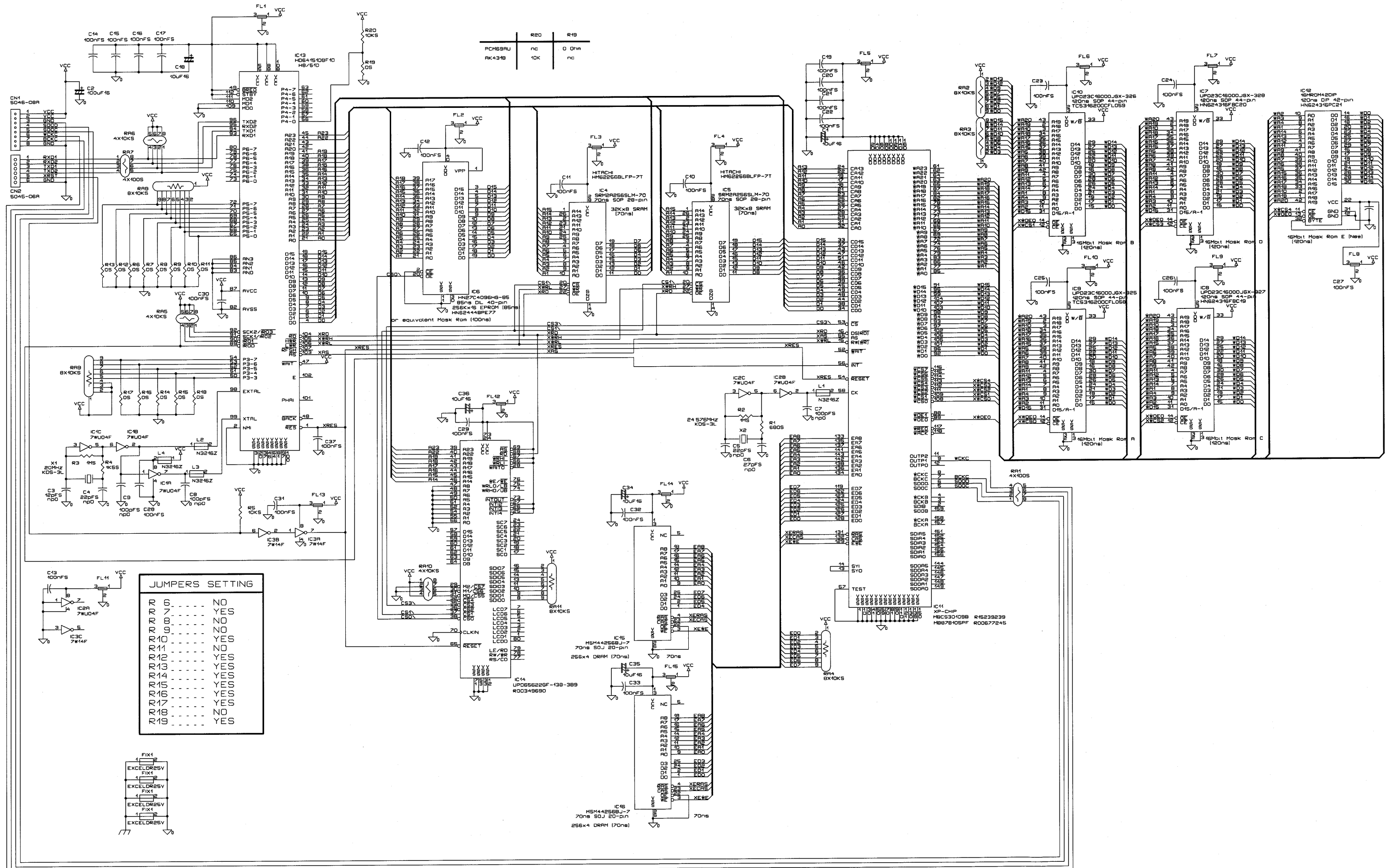


View from component side

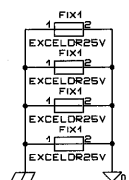
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CIRCUIT DIAGRAM(XPGS MODULE BOARD)



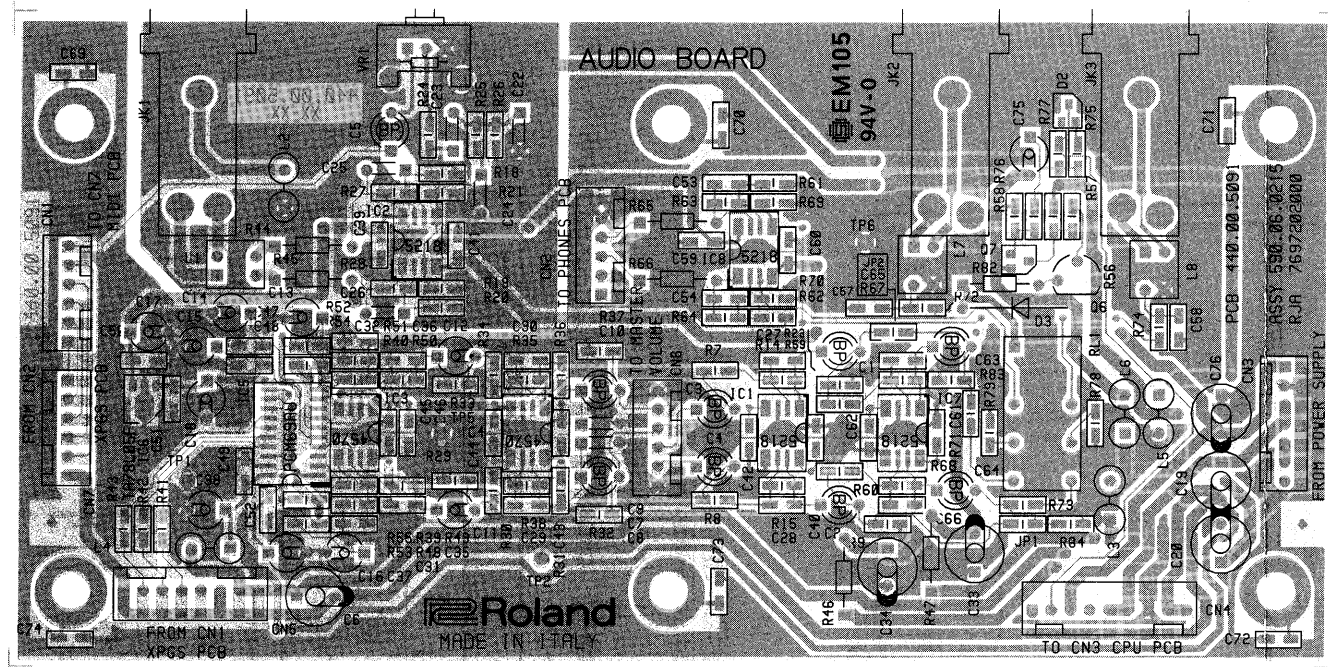
JUMPERS SETTING	
R1	NO
R2	YES
R3	NO
R4	NO
R5	NO
R6	YES
R7	NO
R8	YES
R9	YES
R10	YES
R11	YES
R12	YES
R13	YES
R14	YES
R15	YES
R16	YES
R17	YES
R18	NO
R19	NO
R20	YES



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

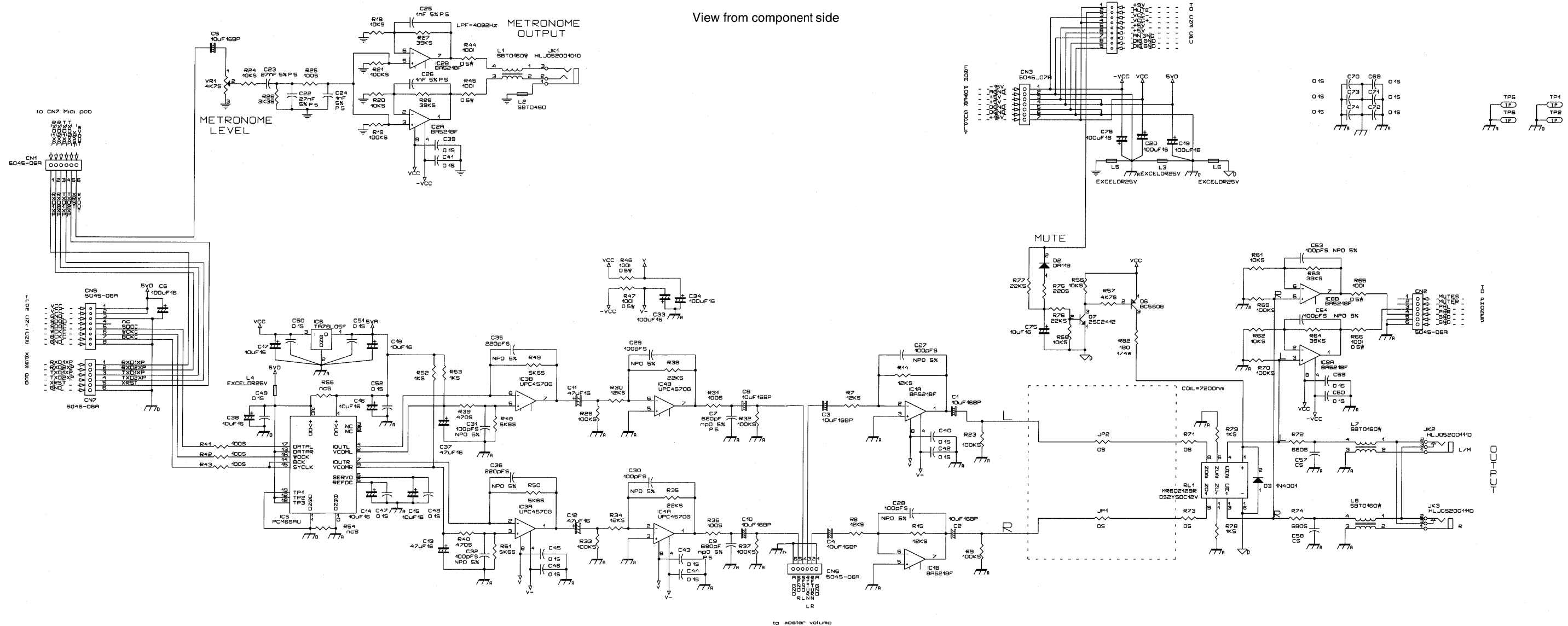
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AUDIO PCB ASSY (or AUDIO BOARD)



CIRCUIT DIAGRAM (AUDIO BOARD)

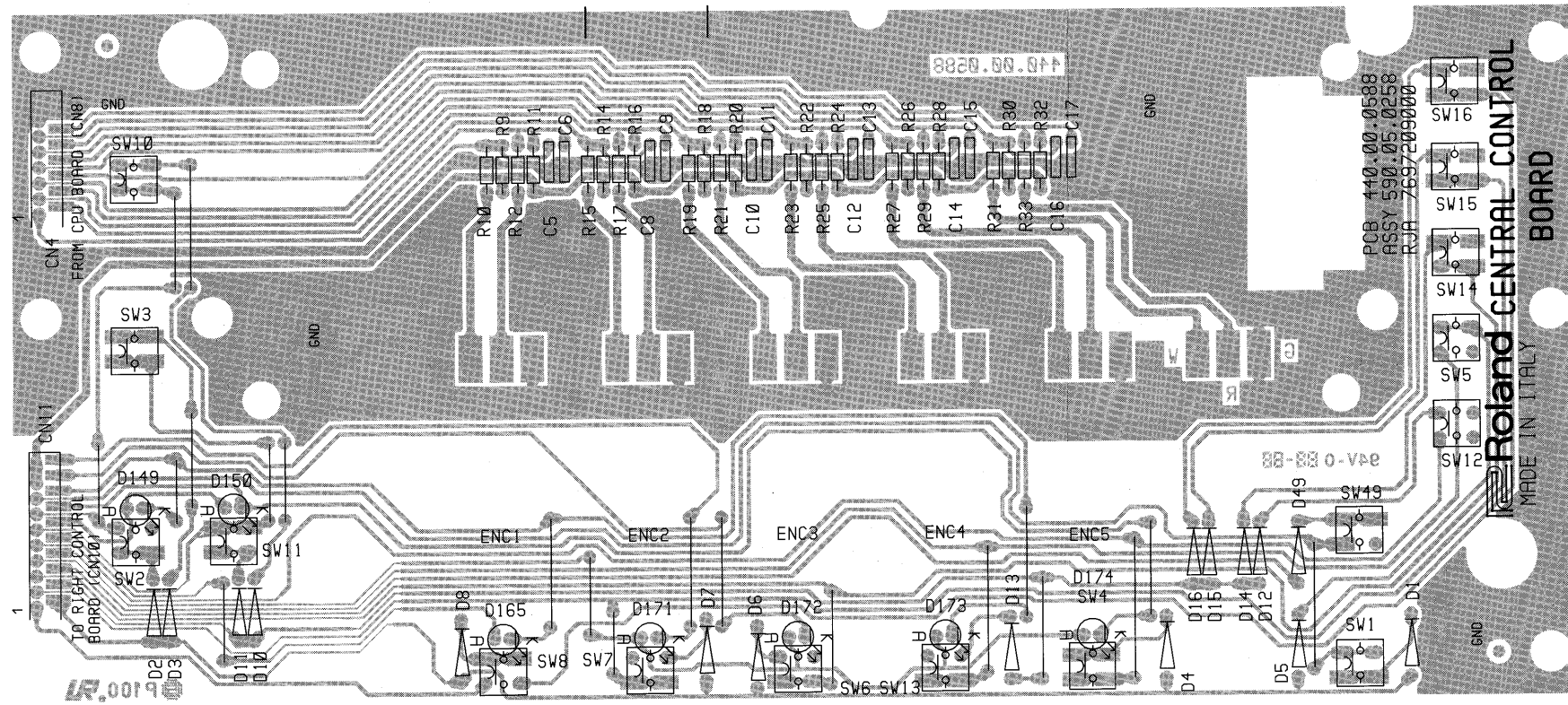
View from component side



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

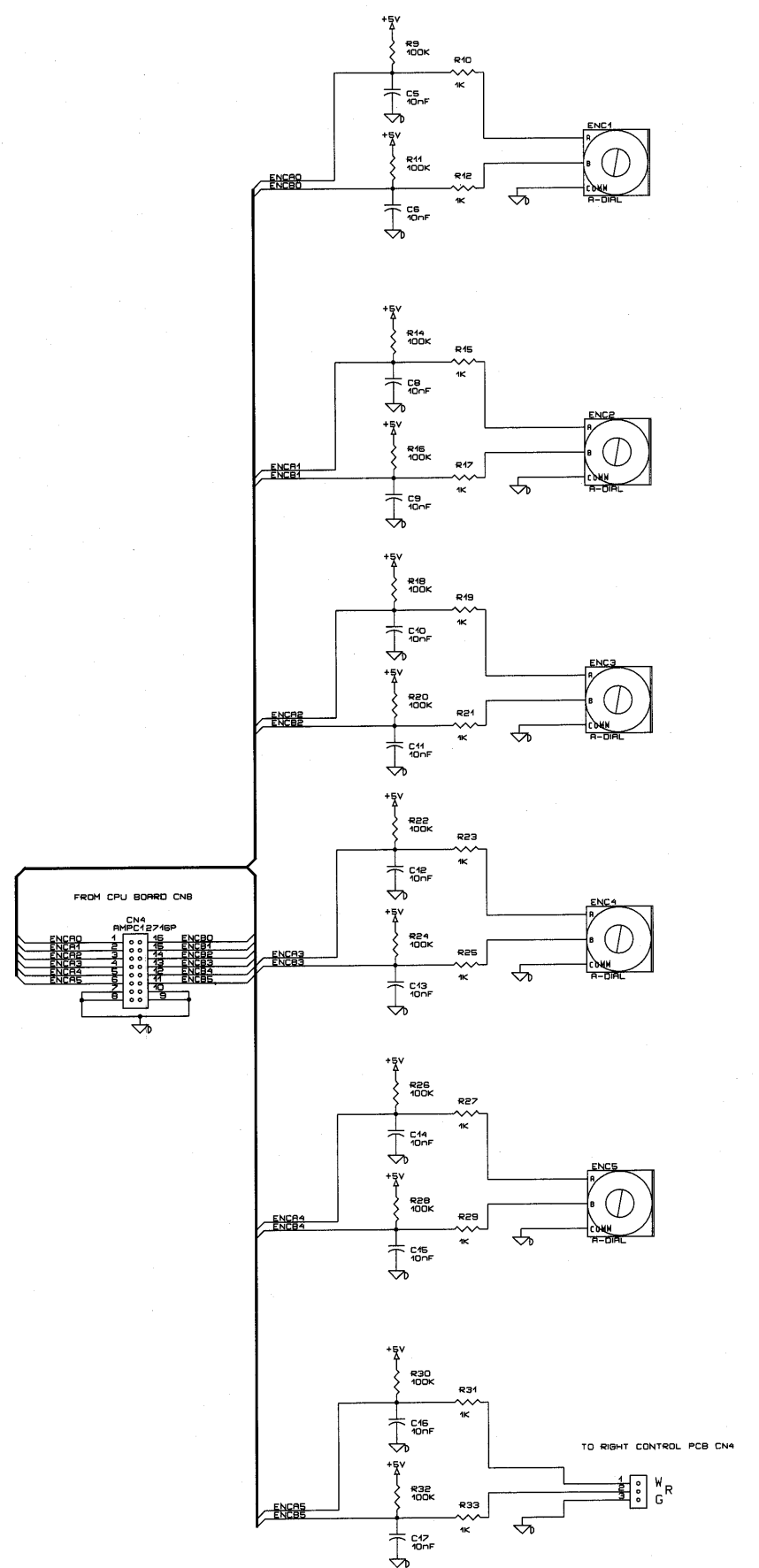
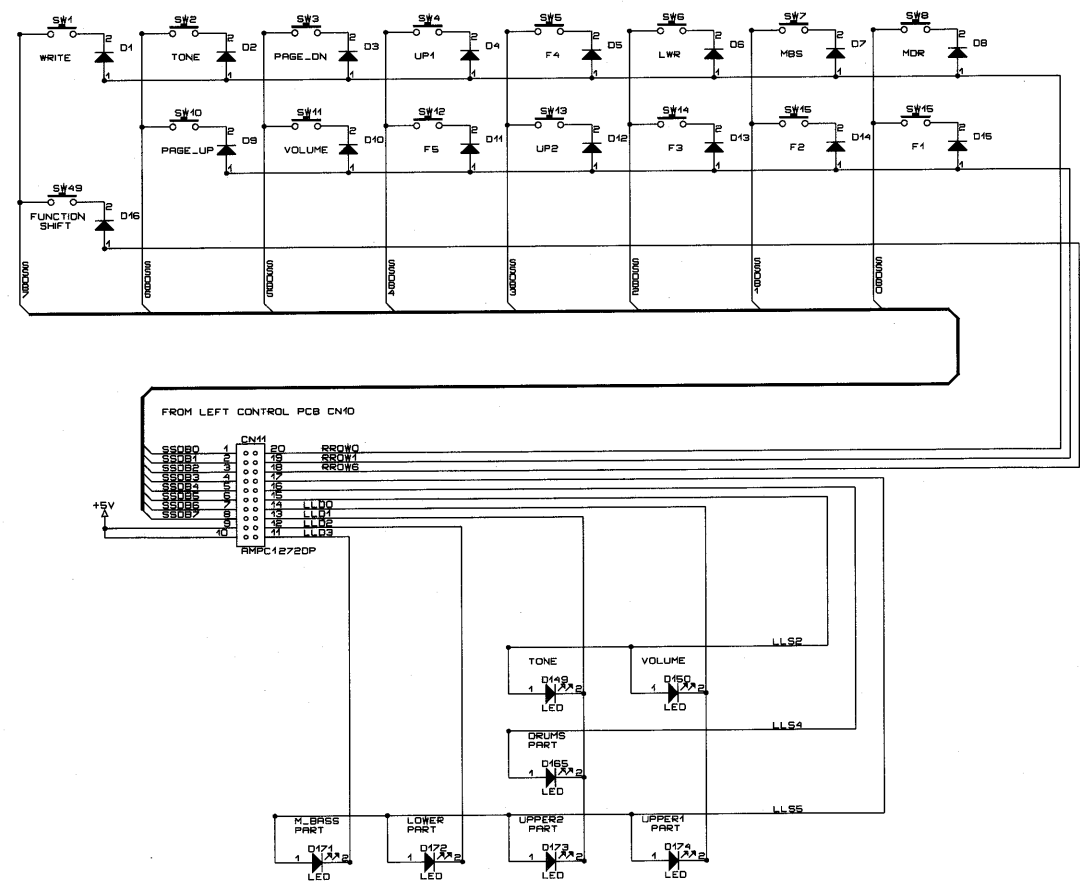
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CENTRAL CONTROL PCB ASSY (OR CENTRAL CONTR. BOARD)



CIRCUIT DIAGRAM (CENTRAL CONTR. BOARD)

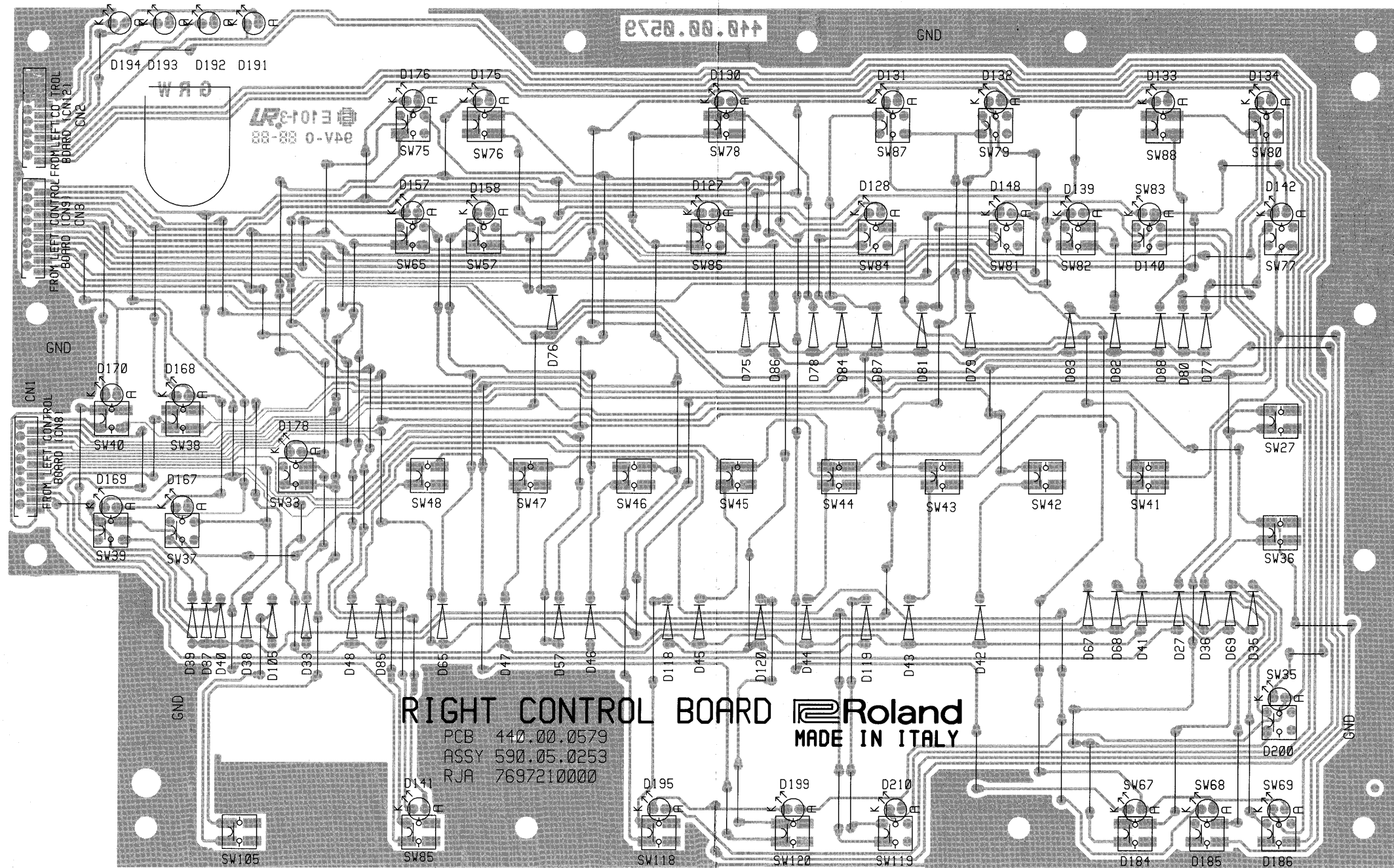
View from component side



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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RIGHT CONTROL PCB ASSY (OR RIGHT CONTROL BOARD)

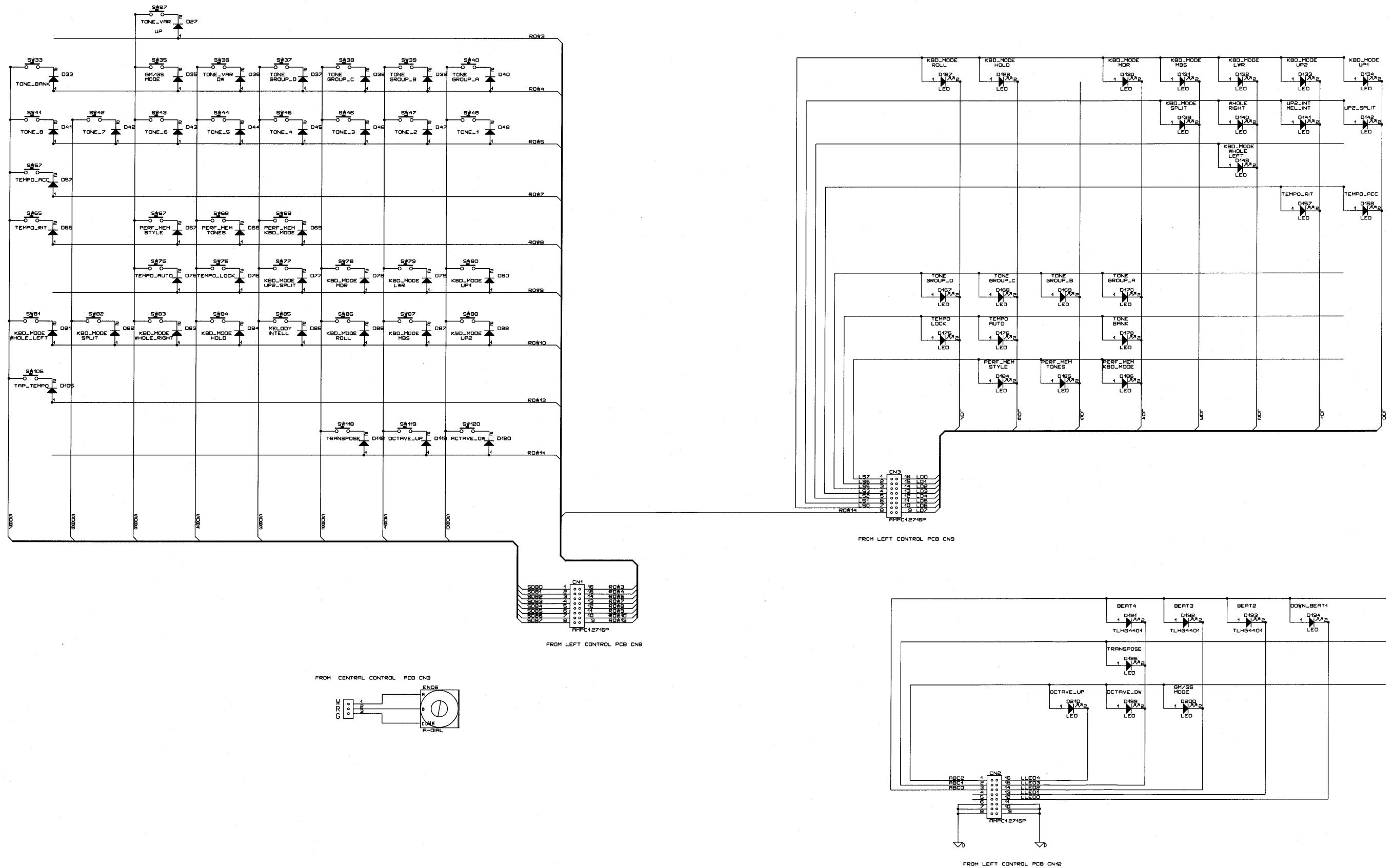


View from component side

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

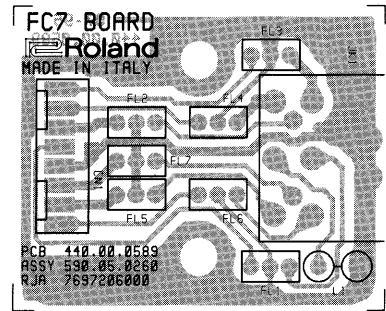
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CIRCUIT DIAGRAM (RIGHT CONTROL BOARD)



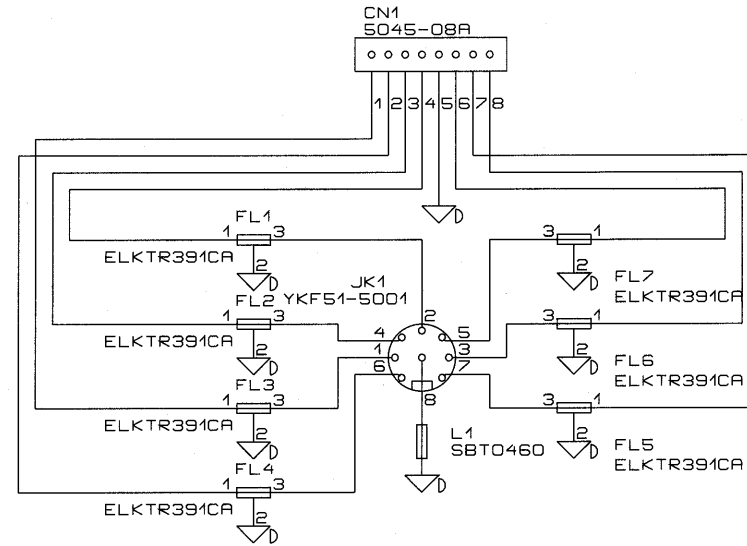
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

A FC7 PCB ASSY(or FC7 BOARD)

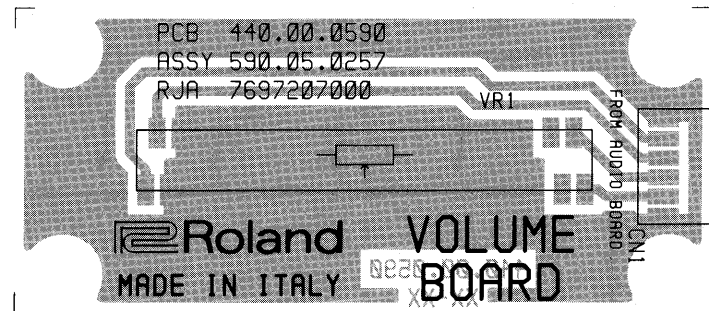


View from component side

CIRCUIT DIAGRAM(FC7 BOARD)

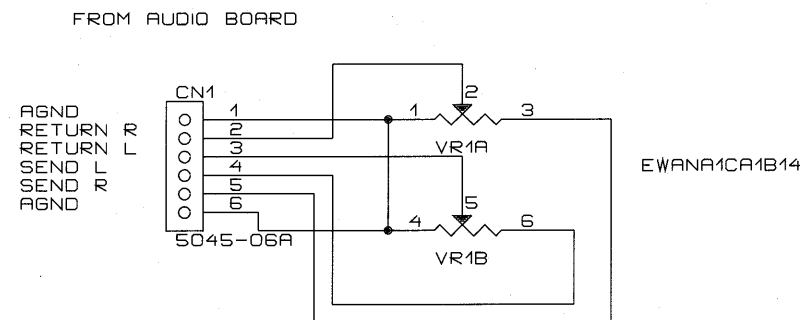


H VOLUME PCB ASSY(or VOLUME BOARD)

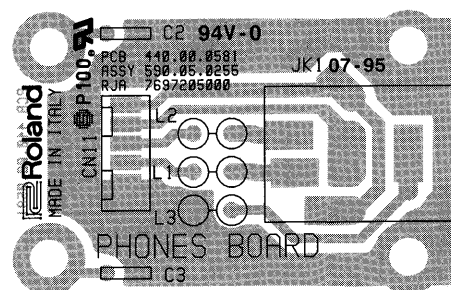


View from component side

CIRCUIT DIAGRAM(VOLUME BOARD)

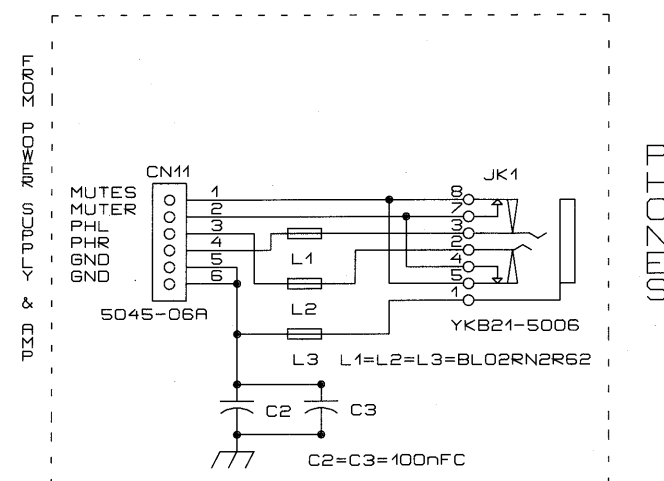


O PHONES PCB ASSY(or PHONES BOARD)



View from component side

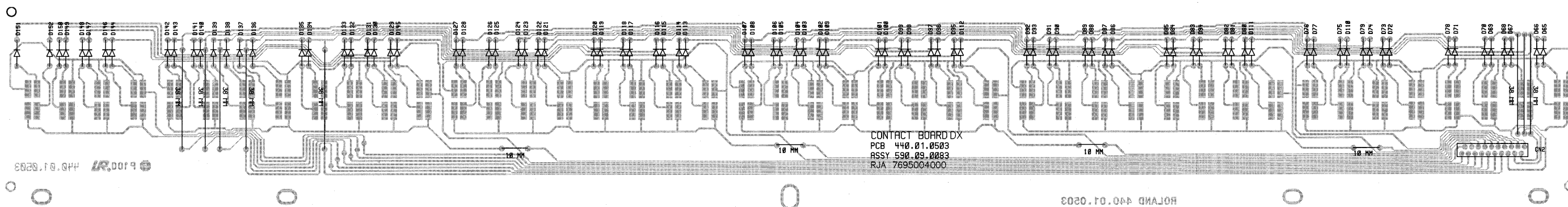
CIRCUIT DIAGRAM(PHONES BOARD)



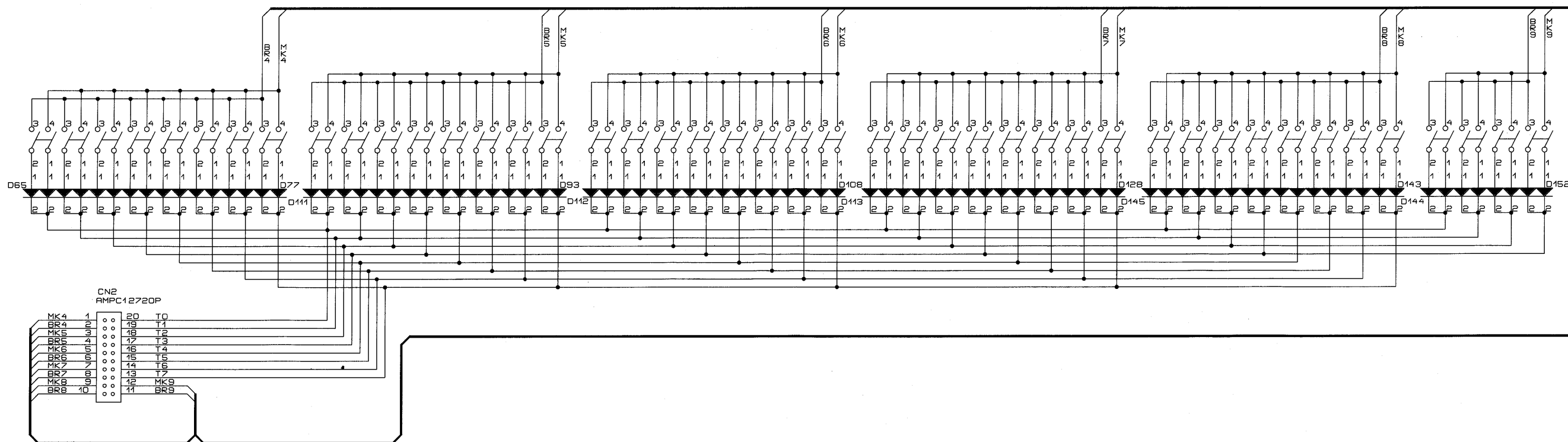
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

A
B
C
D
E
F
G
H
I
J
K
L
M
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P
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T
U

RIGHT CONTACT PCB ASSY w/ RUBBER C. (or RIGHT CONTACT BOARD w/ RUBBER C.)



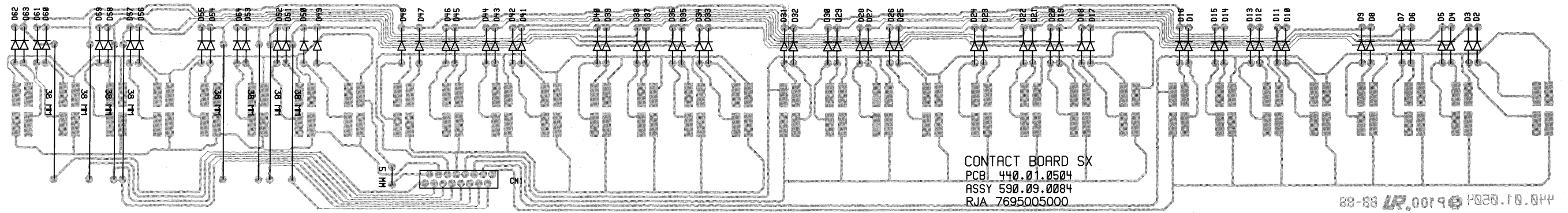
CIRCUIT DIAGRAM (RIGHT CONTACT BOARD w/ RUBBER CONT.)



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
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
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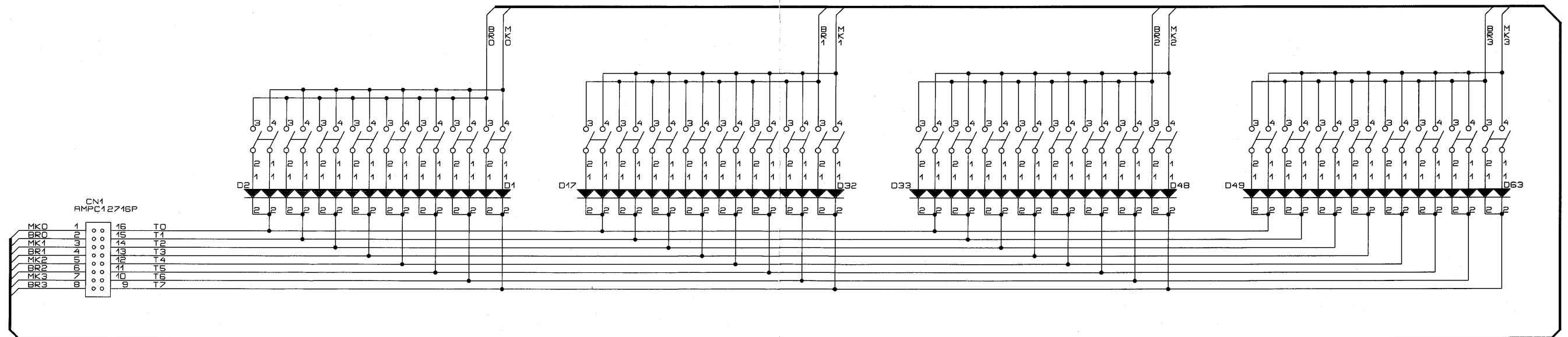
LEFT CONTACT PCB ASSY w/RUBBER C. (or LEFT CONTACT BOARD w/RUBBER C.)



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View from component side

CIRCUIT DIAGRAM(LEFT CONTACT BOARD w/RUBBER C.)



G-800 TEST MODE ver 1.00

HOW TO IDENTIFY THE G-800 SOFTWARE VERSION

Press the "F1" button while turning on the instrument.
The display shows:

```

xx.xx  version
xx  day   xx  month   xxxx  year

```

To leave your display, turn off the instrument.

HOW TO ENTER THE G-800 TEST MODE

Press the "F2" button while turning on the instrument.
The display shows:

```

G-800 Test Mode
ver 1.00          3May 95

```

after a few seconds, the display shows:

Music Style	Tone
1 Switch	1 Rom
2 Encoder	2 Pattern Rom
3 Bender + Pedal	3 Dynamic Ram
4 Lcd	4 Static Ram
5 Led	5 Midi
6 Keyboard	6 Disk

This is the main Menu.

HOW TO LEAVE TEST MODE

Turn off the instrument.

SWITCH TEST

Press the Music Style 1 button.
The display shows:

```

Switch Test in progress ....
Name   xxxxx   ooo

```

xxxxx = Name of the pressed button
ooo = On (if pressed)
Off (if released)

To go back to the main Menu, press Tone8 and F5 buttons simultaneously.

ENCODER TEST

Press the Music Style 2 button.
The display shows:

```

Encoder Test in progress ....
Drum part = aaa
Accom Grp = bbb
Bass Bank = ccc
Lower Num = ddd
Upper Var = eee
AlphaDial = fff

```

```

aaa = from 0 to 127
bbb = from 0 to 127
ccc = from 0 to 127
ddd = from 0 to 127
eee = from 0 to 127
fff = from 0 to 127

```

Press the F5 button to go back to the main Menu.

BENDER + PEDAL TEST

Press the Music Style 3 button.
The display shows:

```

Bender + Pedals Test
Bender           = aaa           Sustain         = bbb
Extra Bender     = ccc           Foot.           = ddd
Modulation       = eee           Pedal           = fff
Battery          = ggg

```

```

aaa = from -127 to +127
bbb = On if pressed, Off if released
ccc = from 0 to 127
ddd = On if pressed, Off if released
eee = from 0 to 127
fff = from 0 to 127
ggg = 3.17V

```

Press the F5 to go back to the main Menu.

LCD TEST

Press the Music Style 4 button.
Whenever you press the Music Style 4 button, the display shows:

```

light LCD: all the pixels are off.
dark LCD : all the pixels are lit.
LCD shows number 8 on each character.

```

Press the F5 button to go back to the main Menu.

LED TEST

Press the Music Style 5 button.
The display shows:

```
Led Test in progress ....
```

All the LEDS will light in sequence one by one.
At the end all the LEDS will light simultaneously.

Press the F5 button to go back to the main Menu.

KEYBOARD TEST

Press the Music Style 6 button.
The display shows:

```
Keyboard Scan Test....
Key   = aa           Vel = bbb
```

aa = Number Pressed or Released button
bbb = Dynamic value from 00 to127 (00=Note Off)

Press the F5 button to go back to the main Menu..

ROM TEST

Press the TONE 1 button.
The display shows:

```
Ic17(program Rom) Test in progress (A0000-FFFFF)
Ic17 = aaaaaa
Ic14(program Rom) Test in progress (00000-80000)
Ic14 = bbbbbb
```

aaaaaa = OK if everything is right, Error in case
of error on Ic17.
bbbbbb = OK if everything is right, Error in case
of error on Ic14.

Press the F5 button to go back to the main Menu..

PATTERN ROM TEST

Press the TONE 2 button.
The display shows:

```
Ic4 (pattern Rom) Test in progress
Ic4 = aaaaaa
```

aaaaaa = OK if everything is right, Error in case of error on Ic4.

Press the F5 button to go back to the main Menu.

DYNAMIC RAM TEST

Press the TONE 3 button.
The display shows:

```
Ic13 Dynamic Ram Test in progress....
Ic13 = aaaaaa
```

aaaaaa = OK if everything is right, Error in case of error on Ic13.

Press the F5 button to go back to the main Menu.

STATIC RAM TEST

Press the TONE 4 button.
The display shows:

```
Ic16 Static Ram Test in progress....
Ic16 = aaaaaa
```

aaaaaa = OK if everything is right, Error in case of error on Ic16.

Press the F5 button to go back to the main Menu.

MIDI TEST

Press the TONE 5 button.
The display shows:

```
Midi Test in progress....

Connect midi A out to midi in A = aaaaaa
Connect midi B out to midi in B = bbbbbb
```

aaaaa = OK if everything is right, Error in case of error.
bbbbbb = OK if everything is right, Error in case of error.

Press the F5 button to go back to the main Menu.

DISK TEST

Press the TONE 6 button.
The display shows:

```
Disk Test

Disk xxxxxxxx

yyyyyyyyyyyy

      HD

TRACK = aaaa Sector = bbbb
```

xxxxxxx = Reading or Writing
yyyyyyyyyy = OK if everything is right, Error in case of error,
Disk protected, Disk Not Formatted, Insert Disk, Write Error,
Recalibr. Error.
aaaa = Track number.
bbbb = Sector number.

Press the F5 button to go back to the main Menu.

RECOVERING FACTORY DATA

Caution !!!

Save Performance Memory (if any), MIDI Set (if any) and Chord Sequencer/Arranger Loop onto the disk to avoid data loss.

For saving method refer to the Owner Manual (Disk section).

Hold the WRITE button while powering on the instrument,
the display will show:

```
Original FACTORY SETUP has been
LOADED !!
```

The CMOS S-RAM (IC 16) will be initialized in this way:

- Factory Performance Memory (1 to 192) will be loaded.
- Factory MIDI Set (1 to 8) will be loaded.
- Chord Sequencer / Arranger Loop Data will be cleared.
- SEQREC StlChange parameter will be set ON.

At the end of the initialization procedure the instrument will enter into normal operation mode.

