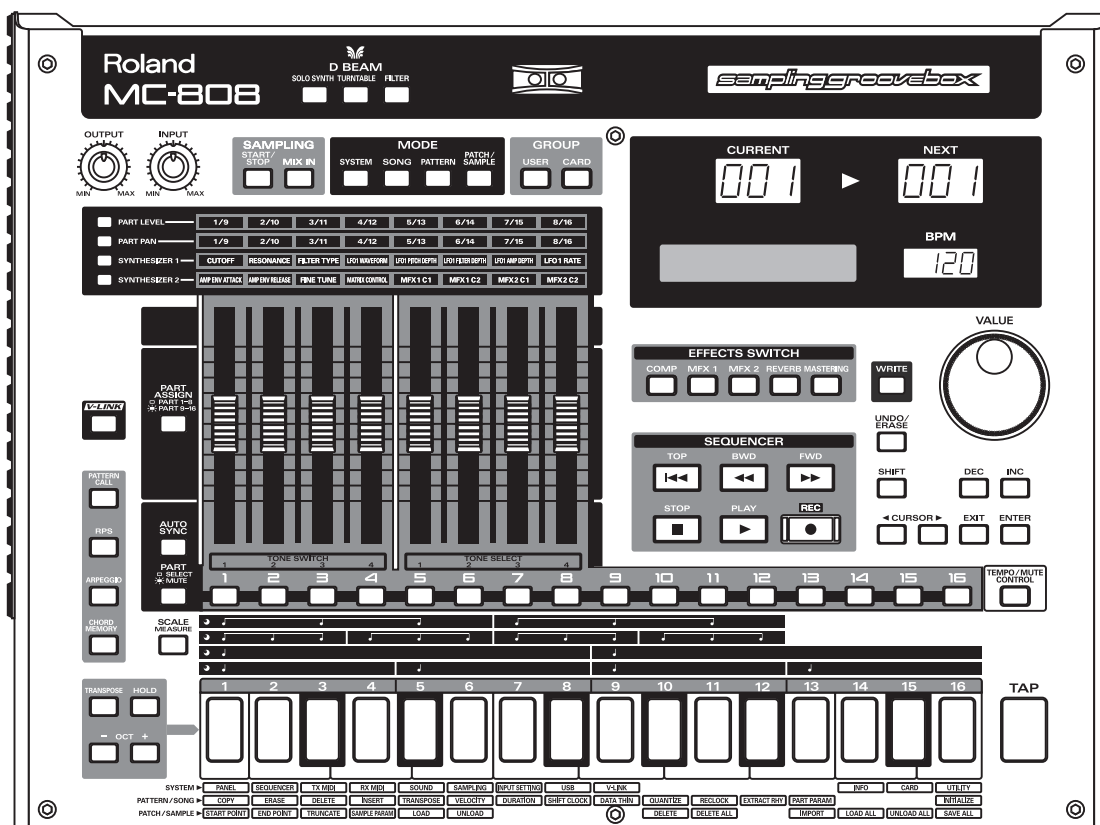


# sampling groovebox MC-808

# SERVICE NOTES Issued by RJA

## TABLE OF CONTENTS

CAUTIONARY NOTES .....	2	Test mode .....	26
SPECIFICATIONS.....	2	BLOCK DIAGRAM.....	30
LOCATION OF CONTROLS 1 .....	4	CIRCUIT BOARD (MAIN) .....	32
LOCATION OF CONTROLS PARTS LIST 1 .....	5	CIRCUIT BOARD (MAIN) .....	34
LOCATION OF CONTROLS 2 .....	6	CIRCUIT DIAGRAM (MAIN 1/3) .....	36
LOCATION OF CONTROLS PARTS LIST 2 .....	7	CIRCUIT DIAGRAM (MAIN 2/3) .....	38
EXPLODED VIEW 1 .....	8	CIRCUIT DIAGRAM (MAIN 3/3) .....	40
EXPLODED VIEW PARTS LIST 1 .....	9	CIRCUIT BOARD (PANEL) .....	42
EXPLODED VIEW 2 .....	10	CIRCUIT BOARD (PANEL) .....	44
EXPLODED VIEW PARTS LIST 2 .....	11	CIRCUIT DIAGRAM (PANEL 1/3) .....	46
EXPLODED VIEW 3 .....	12	CIRCUIT DIAGRAM (PANEL 2/3) .....	48
EXPLODED VIEW PARTS LIST 3 .....	13	CIRCUIT DIAGRAM (PANEL 3/3) .....	50
EXPLODED VIEW 4 .....	14	CIRCUIT DIAGRAM (FADER 1/1) .....	52
EXPLODED VIEW PARTS LIST 4 .....	15	CIRCUIT BOARD (JACK).....	54
WIRING DIAGRAM.....	16	CIRCUIT BOARD (JACK).....	55
PARTS LIST.....	18	CIRCUIT DIAGRAM (PS 1/1) .....	56
CHECKING THE VERSION NUMBER.....	23	CIRCUIT DIAGRAM (D-BEAM 1/1).....	58
FACTORY RESET INSTRUCTIONS .....	23	CIRCUIT DIAGRAM (JACK 1/1).....	60
Saving and loading data.....	24	Error messages.....	62
Updating the system.....	25		



Copyright © 2006 ROLAND CORPORATION

All rights reserved. No part of this publication may be reproduced in any form without the written permission of ROLAND CORPORATION.

## CAUTIONARY NOTES

Before beginning the procedure, please read through this document.

The matters described may differ according to the model.

## BACK UP USER DATA!

User data may be lost during the course of the procedure.

Refer to "USERS DATA SAVE AND LOAD" in the Service Notes and save the data.

After completing the procedure, restore the backed-up data to the product.

## PART REPLACEMENT

When replacing components near the power-supply circuit or a heat-generating circuit (such as a circuit provided with a heat sink or including a cement resistor), carry out the procedure according to the instructions with respect to the part number, direction, and attachment position (mounting so as to leave an air gap between the component and the circuit board, etc.).

## PARTS LIST

A component whose part code is \*\*\*\*\* cannot be supplied as a service part because one of the following reasons applies.

- Because it is supplied as an assembled part (under a different part code).
- Because a number of circuit boards are grouped together and supplied as a single circuit board (under a different part code).
- Because supply is prohibited due to copyright restrictions.
- Because reissuance is restricted.
- Because the part is made to order (at current market price).

## CIRCUIT DIAGRAM

In the circuit diagram, 'NIU' is an abbreviation for 'NOT IN USE'.

The circuit board and circuit-board diagram show silkscreened indications, but no components are mounted.

## SPECIFICATIONS

MC-808(08965): Sampling Groovebox

### Sound Generator Section

Maximum Poliphony: 128 voices (shared with sampling section)

Sampling Frequency: 44.1 kHz

Parts: 16 (Main) + 16 (RPS)

Waves: 622

Patches

User: 1024 (pre-load: 896)

Card: 1024

Rhythm Sets

User: 256 (pre-load: 128)

Card: 256

### Sampling Section

Data Format: 16-bit linear (File Type: WAV/AIFF)

Maximum Poliphony: shared with sound generator section

Sampling Frequency: 44.1 kHz (fixed)

Maximum Sampling Time

When sampling memory isn't expanded (4MB)

mono: 47 sec. approx., stereo: 23.5 sec. approx.

When sampling memory is expanded with DIMM (516 MB)

mono: 102 min. approx., stereo: 51 min. approx.

Samples

User: 2000

Card: 7000

### Sequencer Section

Parts: 16 + Tempo/Mute Control

Resolution: 480 ticks per quarter note

Tempo: 5--300

Maximum Note Storage: approx. 1,300,000 notes

Recordable Number of Measures: 1--998

Patterns

User: 800

Card: 800

Recording Method

Realtime

TR-REC

Step

Songs: 50

Arpeggio Styles: 128

Chord Memory: 128

RPS Sets: 50

Pattern Sets: 50

### Effects Section

Reverb: 1 (4 types)

Compressor: 1 (1 type)

Multi-effects: (MFX) 2 / (MFX1, 2: 47 types)

Pitch Shifter (for external input): 1 (1 type)

### Mastering Section

3-band Compressor: 1 (1 type)

### Expansion Slot

Expansion of sampling memory: DIMM 1 slot

Number of pins: 168-pin

Speed: 100 MHz (PC100 CL=2) / 133 MHz (PC133 CL=3)

Voltage: 3.3 V

Capacity: 128 MB, 256 MB, 512 MB

Board height: 38 mm or less

## External Memory

For saving Patterns/Patches/Samples  
CompactFlash: 1 slot, Max. 1 GB (3.3 V)

## Controllers, Display

### Display

20x2 character Type LCD (with Back lit.)  
Pattern Number Display: 7 segment 3 character x 2 (LED)  
BPM Display: 7 segment 4 character (LED)

### Control Knobs

OUTPUT Volume: 1  
INPUT Volume: 1

### Control Sliders

Motorized Fader (60mm): 8

### Other Controller

D Beam Controller

## Connectors

MIX OUTPUT Jacks (L/MONO, R)  
DIRECT OUTPUT Jacks (L, R)  
INPUT Jacks (L/MONO/MIC, R)  
Headphones Jack  
MIDI Connectors (IN, OUT)  
USB Connector (Function): MIDI, Mass storage class  
DC IN Jack

## Power Supply

DC 12 V (AC adaptor)

## Current Draw

1500 mA

## Dimensions

431 (W) x 327 (D) x 104 (H) mm  
17 (W) x 12-7/8 (D) x 4-1/8 (H) inches

## Weight

3.4 kg  
7 lbs 8 oz

## Accessories

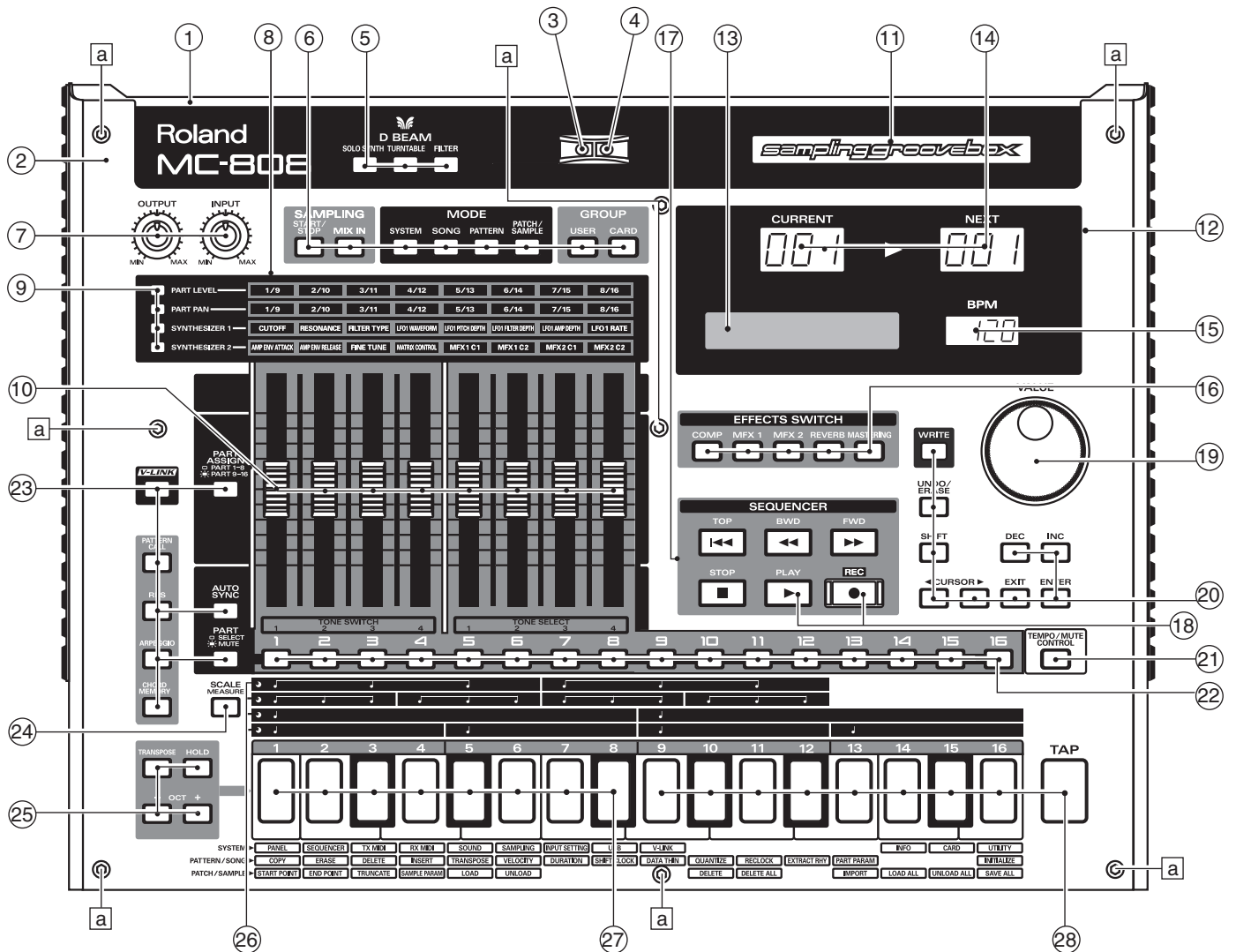
Owner's Manual (English) (#73126945)  
Sound & Parameter List (English) (Included in Owner's Manual)  
AC Adaptor (PSB-7U, without Power Code) (#04236112)  
CD-ROM (Editor, USB MIDI Driver) (#04236423)  
Power Code (120V) (#02562456)  
Power Code (230V) (#01903356)  
Power Code (240V) (#03785590)  
EURO CONVERTER PLUG (#00905234)

(0 dBu = 0.775 V rms)

\* In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

# LOCATION OF CONTROLS 1

[TOP PANEL]



# LOCATION OF CONTROLS PARTS LIST 1

## [TOP PANEL]

### [PARTS].

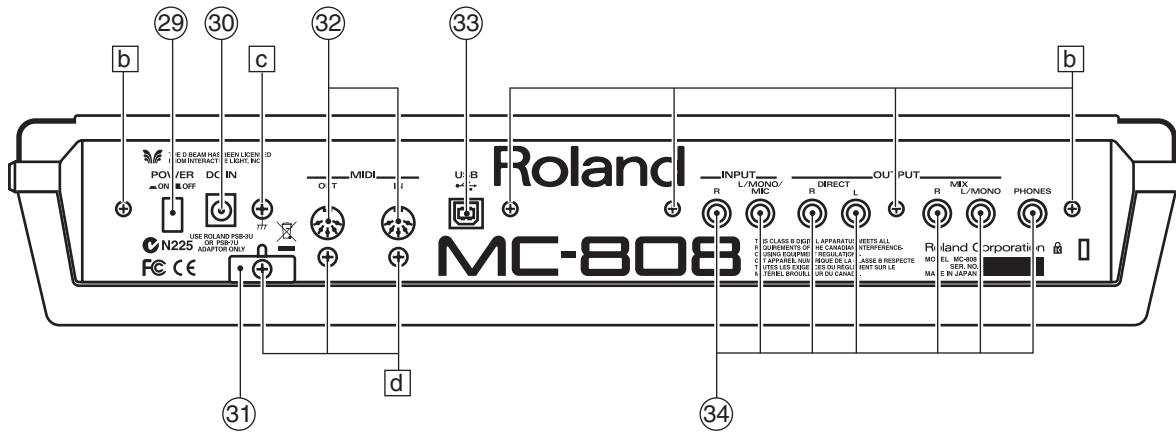
No	PART CODE	PART NAME	DESCRIPTION	Q'TY
1	04125512	TOP CASE		1
2	04125545	TOP PANEL		1
3	01900612	TPS611(F)	DIODE	1
	12169368	LED SPACER	LDS-40B	1
4	03126134	TLN233(F)	LED(INFRARED)	1
	02230578	LED SPACER	LDS-50R	1
5	03120889	D S-KEYTOP	SX2H-B GRS	1
	03120890	D S-KEYTOP	SX1H-B GRS	1
	01343478	TACT SWITCH	SKQNAED010	3
	01904112	SLR-342VCT32 N.P.Q RANK	LED(RED)	3
6	03120889	D S-KEYTOP	SX2H-B GRS	4
	01343478	TACT SWITCH	SKQNAED010	8
	01904112	SLR-342VCT32 N.P.Q RANK	LED(RED)	8
7	04124267	J R-KNOB	SF-ELA BLK/SLV	2
	03568189	RK12L12C0A0E	ROTARY POTENTIOMETER	2
8	04126145	LENS COVER		1
	04125567	LED LENS		4
	03893601	SLR343BCT3F	LED (BLUE)	8
	03014945	LED SPACER	LH-3-8	8
9	04125623	RUBBER SW C		1
	01343478	TACT SWITCH	SKQNAED010	4
10	04126167	U S-KNOB	M-A	8
	04017245	RS60N11M	SLIDE POTENTIOMETER	8
11	04126156	PLATE		1
12	04125556	DISPLAY COVER		1
13	03567134	LCD	RCM2234M-A	1
	02453345	LCD HOLDER		1
	02453156	LNJ801TP6JA	LED	5
14	01342534	LED 7 SEGMENT	SL-9351S	2
15	15029419	LED (7SEGMENT)	LA-301VB	4
16	03120889	D S-KEYTOP	SX2H-B GRS	2
	03120890	D S-KEYTOP	SX1H-B GRS	1
	01343478	TACT SWITCH	SKQNAED010	5
	01904112	SLR-342VCT32 N.P.Q RANK	LED(RED)	5
17	03014223	RUBBER SW B		1
18	03459534	TLSU1002A(TO2)	LED(RED)	1
	03565401	TLGU1002A(TO2)	LED(GREEN)	1
	03459534	TLSU1002A(TO2)	LED(RED)	1
19	22485303	D R-KNOB(ALPHA-DIAL)	L BLK 248-303	1
	01905467	EVE GC1 F20 24B	ROTARY ENCODER	1
20	03120890	D S-KEYTOP	SX1H-B GRS	3
	03120889	D S-KEYTOP	SX2H-B GRS	3
	01343478	TACT SWITCH	SKQNAED010	9
	01904112	SLR-342VCT32 N.P.Q RANK	LED(RED)	1
21	03120890	D S-KEYTOP	SX1H-B GRS	1
	01343478	TACT SWITCH	SKQNAED010	1
	01904112	SLR-342VCT32 N.P.Q RANK	LED(RED)	1
22	03120890	D S-KEYTOP	SX1H-B GRS	16
	01343478	TACT SWITCH	SKQNAED010	16
	15029348	SLR-342MCT32	LED (GREEN)	16
23	03120890	D S-KEYTOP	SX1H-B GRS	8
	01343478	TACT SWITCH	SKQNAED010	8
	01904112	SLR-342VCT32 N.P.Q RANK	LED(RED)	8
24	03120890	D S-KEYTOP	SX1H-B GRS	1
	01343478	TACT SWITCH	SKQNAED010	1
25	03120889	D S-KEYTOP	SX2H-B GRS	2
	01343478	TACT SWITCH	SKQNAED010	4
	01904112	SLR-342VCT32 N.P.Q RANK	LED(RED)	4
26	00785856	SLR-342VR3F	LED(RED)	4
	12169406	LED SPACER	LDS-100Y 10MM	4
27	04125601	RUBBER SW A		1
	03459534	TLSU1002A(TO2)	LED(RED)	8
28	04125612	RUBBER SW B		1
	03459534	TLSU1002A(TO2)	LED(RED)	9

### [SCREW]

No.	PART CODE	PART NAME	DESCRIPTION	Q'TY
a	02126156	SCREW M3X10	HEX SOCKET HEAD CAP TAPTITE P	8

# LOCATION OF CONTROLS 2

## [REAR PANEL]



---

**LOCATION OF CONTROLS PARTS LIST 2**


---

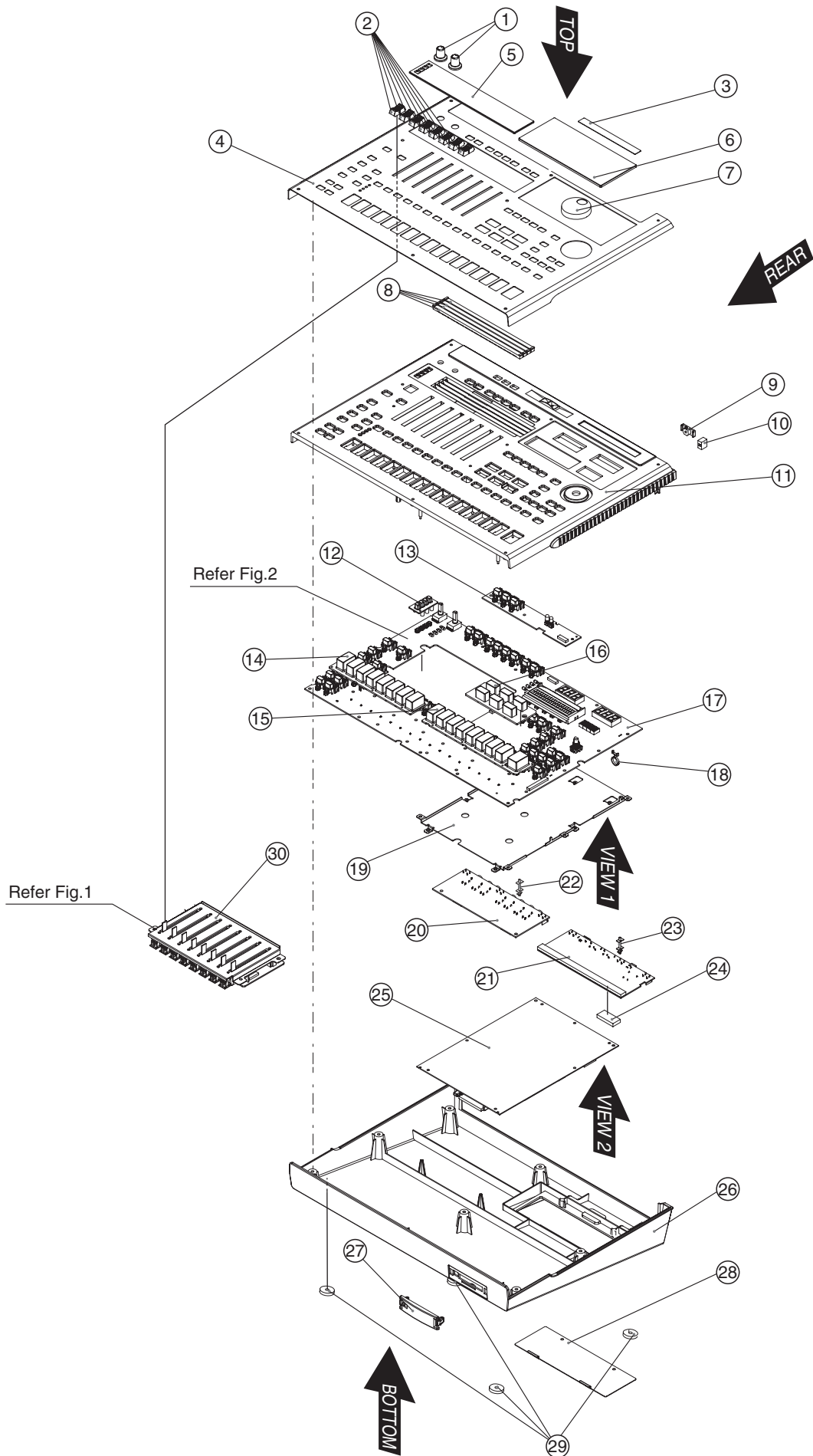
**[REAR PANEL]****[PARTS]**

No.	PART CODE	PART NAME	DESCRIPTION	Q'TY
29	12499175	BUTTON	JSPUE0011A	1
	01676512	PUSH SWITCH	SDKLA10200	1
30	03018789	DC JACK	HEC2305-01-260	1
31	22365714	CORD HOOK		1
32	13429825	MIDI CONNECTOR	YKF51-5054V	1
33	02781189	USB CONNECTOR B TYPE FEMALE	YKF45-0021	1
34	00120434	6.5MM JACK	YKB21-5262	7

**[SCREW]**

No.	PART CODE	PART NAME	DESCRIPTION	Q'TY
b	40237101	SCREW M3X8	PAN MACHINE W/SW+SMALL PW BZC	5
c	40230590	SCREW M3X10	BINDING MACHINE NI	1
d	40011312	SCREW 3X10	BINDING TAPTITE P BZC	3

# EXPLODED VIEW 1





# EXPLODED VIEW PARTS LIST 1

No	PART CODE	PART NAME	DESCRIPTION	Q'TY
1	04124267	J R-KNOB	SF-ELA BLK/SLV	2
2	04126167	U S-KNOB	M-A	8
3	04126156	PLATE		1
4	04125545	TOP PANEL		1
5	04126145	LENS COVER		1
6	04125556	DISPLAY COVER		1
7	22485303	D R-KNOB(ALPHA-DIAL)	L BLK 248-303	1
8	04125567	LED LENS		4
9	22365714	CORD HOOK		1
10	12499175	BUTTON	JSPUE0011A	1
11	04125512	TOP CASE		1
12	04125623	RUBBER SW C		1
13	73126856	D-BEAM KEYTOP ASSY		1
14	04125601	RUBBER SW A		1
15	04125612	RUBBER SW B		1
16	03014223	RUBBER SW B		1
17	73126890	PANEL KEYTOP ASSY	Include in PANEL BOARD ASSY	1
18	02890945	CLAMP	LWSM-0605	1
19	04125578	PWB HOLDER MAIN		1
20	73126834	JACK BOARD ASSY		1
21	73126845	PS BOARD ASSY		1
22	03239989	PWB SPACER	WLS-10-0	1
23	12199579	CARD SPACER	KGLS-5RT	1
24	04236978	EMC GASKET	RFSG-060100 L=30	1
25	73126801	MAIN BOARD ASSY		1
26	04125523	BOTTOM CASE		1
27	04233334	CF COVER		1
28	04126134	DIMM COVER		1
29	01235378	FOOT		4
30	73126912	FADER BOARD ASSY		1

# EXPLODED VIEW 2

Fig.1

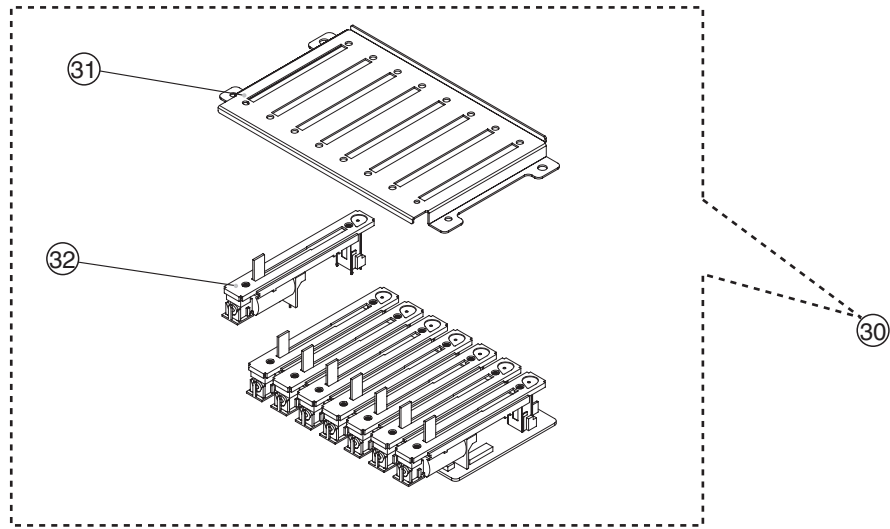
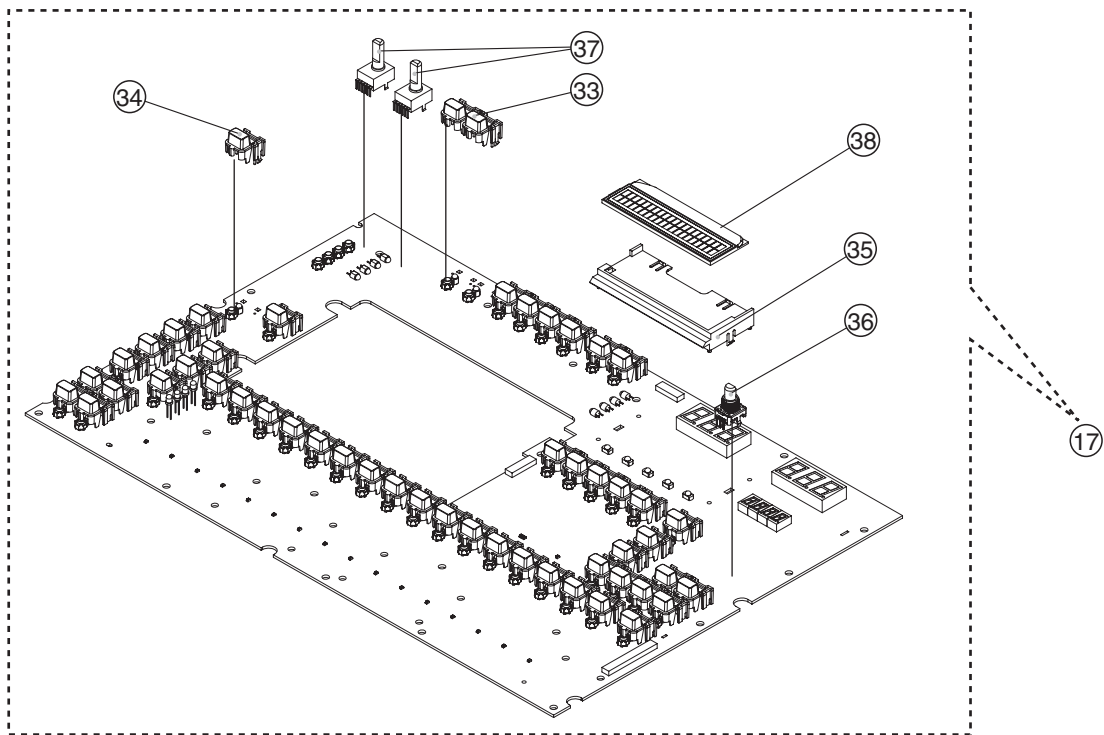


Fig.2



---

**EXPLODED VIEW PARTS LIST 2**

---

**[Fig.1]**

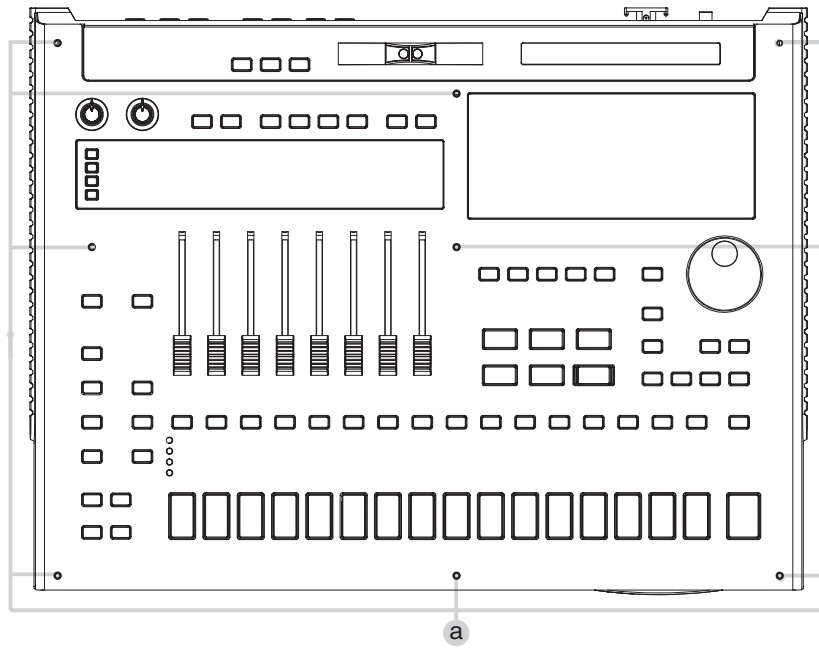
No	PART CODE	PART NAME	DESCRIPTION	QTY
30	73126912	FADER BOARD ASSY		1
31	04125589	FADER HOLDER		1
32	04017245	RS60N11M	SLIDE POTENTIOMETER	8

**[Fig.2]**

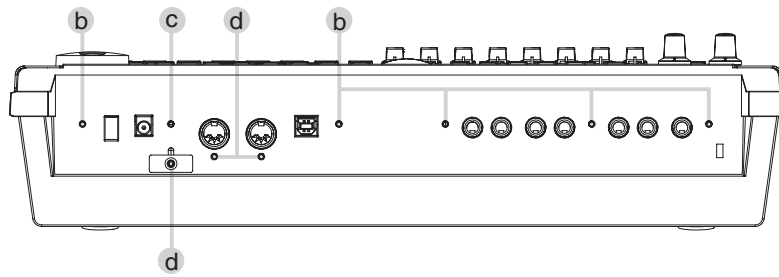
No	PART CODE	PART NAME	DESCRIPTION	QTY
17	73126890	PANEL KEYTOP ASSY		1
33	03120889	D S-KEYTOP	SX2H-B GRS	11 +1
34	03120890	D S-KEYTOP	SX1H-B GRS	30 +1
35	02453345	LCD HOLDER		1
36	01905467	EVE GC1 F20 24B	ROTARY ENCODER	1
37	03568189	RK12L12C0A0E	ROTARY POTENTIOMETER	2
38	03567134	LCD	RCM2234M-A	1

# EXPLODED VIEW 3

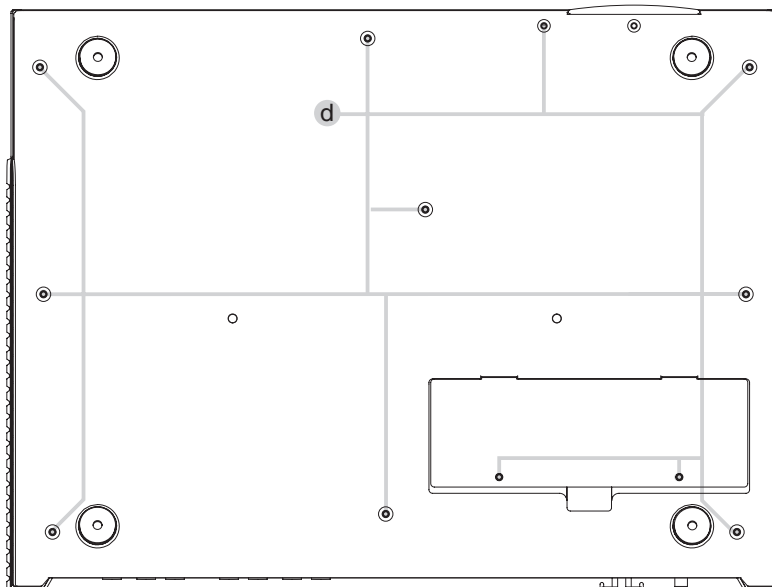
TOP



REAR



BOTTOM



---

**EXPLODED VIEW PARTS LIST 3**

---

**[TOP]**

No	PART CODE	PART NAME	DESCRIPTION	Q'TY
a	02126156	SCREW M3X10	HEX SOCKET HEAD CAP TAPTITE P	8

**[REAR]**

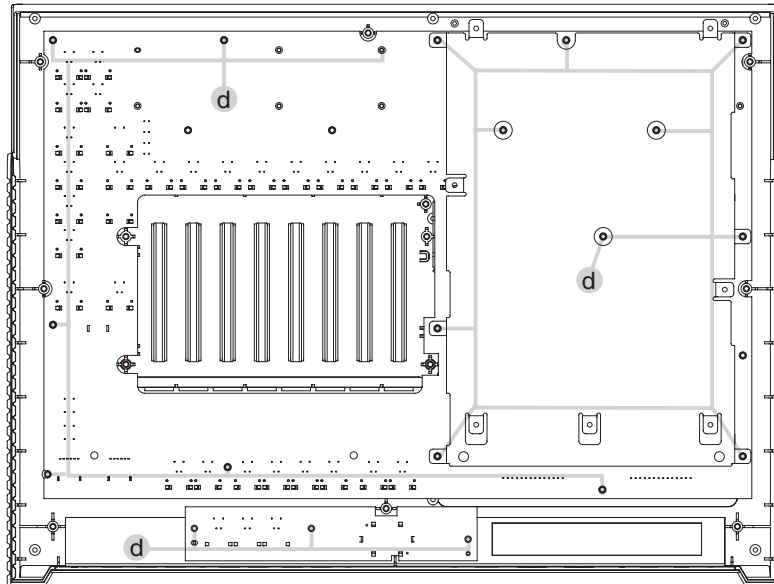
No	PART CODE	PART NAME	DESCRIPTION	Q'TY
b	40237101	SCREW M3X8	PAN MACHINE W/SW+SMALL PW BZC	5
c	40230590	SCREW M3X10	BINDING MACHINE NI	1
d	40011323	SCREW 3X10	BINDING TAPTITE P BZC	3

**[BOTTOM]**

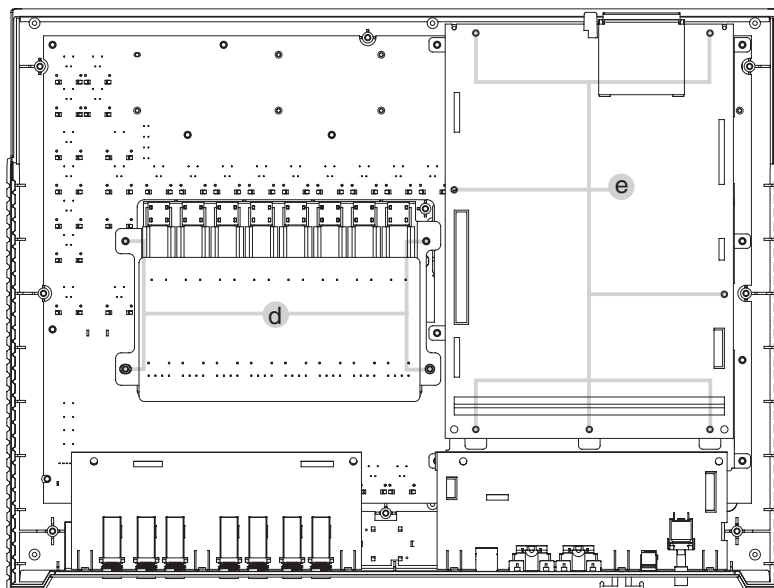
No	PART CODE	PART NAME	DESCRIPTION	Q'TY
d	40011323	SCREW 3X10	BINDING TAPTITE P BZC	12

# EXPLODED VIEW 4

VIEW 1



VIEW 2



---

**EXPLODED VIEW PARTS LIST 4**

---

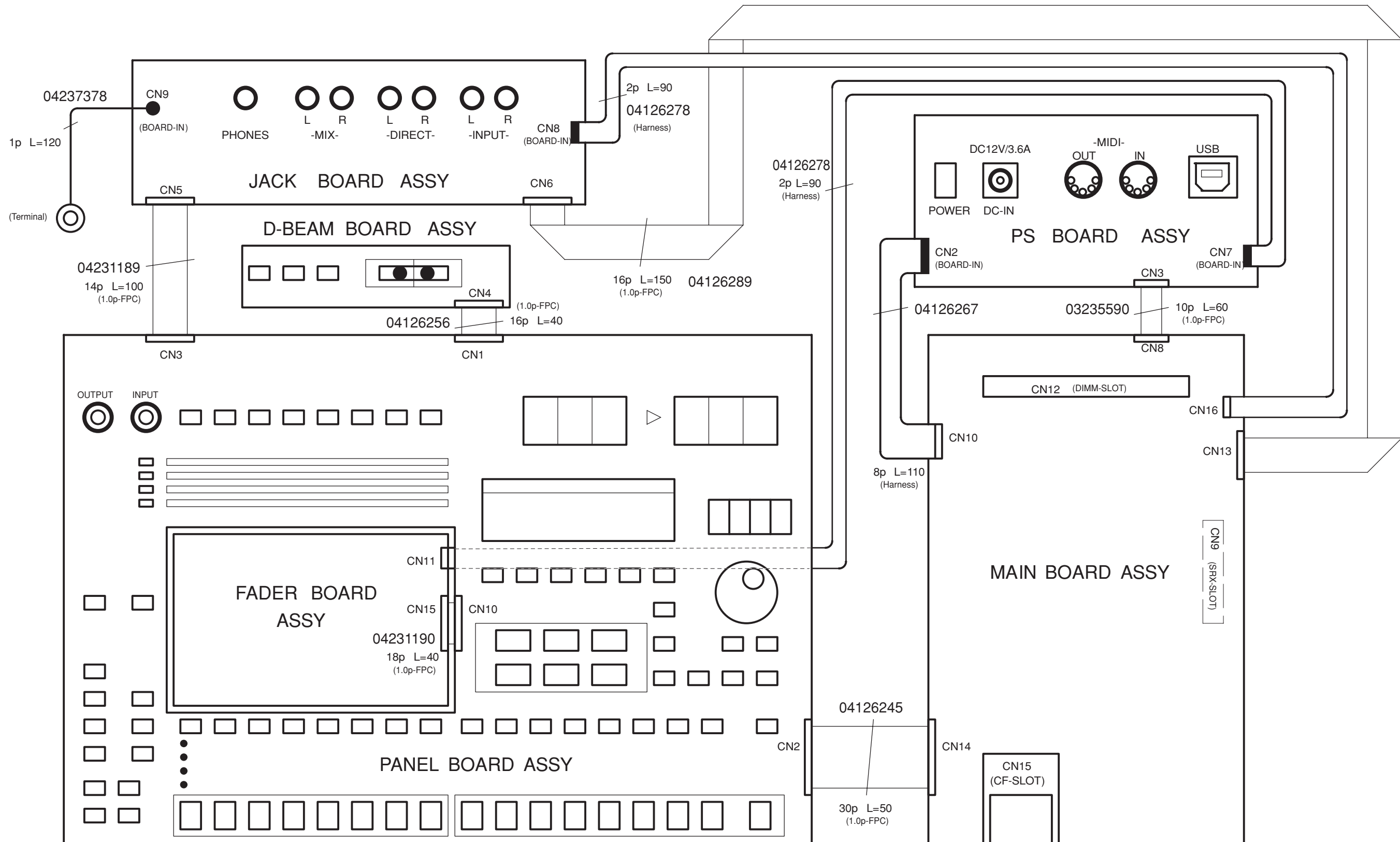
**[VIEW 1]**

No	PART CODE	PART NAME	DESCRIPTION	Q'TY
d	40011323	SCREW 3X10	BINDING TAPTITE P BZC	20

**[VIEW 2]**

No	PART CODE	PART NAME	DESCRIPTION	Q'TY
d	40011323	SCREW 3X10	BINDING TAPTITE P BZC	4
e	40011090	SCREW 3X6	BINDING TAPTITE B BZC	7

# WIRING DIAGRAM





# PARTS LIST

**SAFETY PRECAUTIONS:**  
The parts marked  $\Delta$  have safety-related characteristics. Use only listed parts for replacement.

Due to one or more of the following reasons, parts with parts code \*\*\*\*\* cannot be supplied as service parts.

- Part supplied only as a component in a complete assembly
- Copyright does not permit the part to be supplied
- Part is sold commercially

NOTE: The parts marked # are new. (initial parts) The description "Q'TY" means a necessary number of the parts per one product.

CASING				
04125523	BOTTOM CASE			1
04233334	CF COVER			1
04126134	DIMM COVER			1
04125556	DISPLAY COVER			1
04125567	LED LENS			4
04126145	LENS COVER			1
04126156	PLATE			1
04125512	TOP CASE			1
04125545	TOP PANEL			1
CHASSIS				
04125589	FADER HOLDER			1
02453345	LCD HOLDER			1
04125578	PWB HOLDER MAIN			1
KNOB,BUTTON				
03120889	D S-KEYTOP	SX2H-B GRS		1
03120889	D S-KEYTOP	SX2H-B GRS		11
03120890	D S-KEYTOP	SX1H-B GRS		1
03120890	D S-KEYTOP	SX1H-B GRS		30
04124267	J R-KNOB	SF-ELA BLK/SLV		2
04126167	U S-KNOB	M-A		8
22485303	D R-KNOB(ALPHA-DIAL)	L BLK 248-303		1
12499175	BUTTON	JSPUE0011A		1
04125601	RUBBER SW A			1
04125612	RUBBER SW B			1
03014223	RUBBER SW B			1
04125623	RUBBER SW C			1
SWITCH				
01343478	TACT SWITCH	SKQNAED010		3 +
01676512	PUSH SWITCH	SDKLA10200		1
JACK,EXT TERMINAL				
13429825	MIDI CONNECTOR	YKF51-5054V		1
02781189	USB CONNECTOR B TYPE FEMALE	YKF45-0021		1
00120434	JACK	YKB21-5262		7
03121689	COMPACTFLASH EJECTOR	ICM-MAE-R21		1
03121678	CARD CONNECTOR	ICM-MA2H-SS52-R21A		1
03018789	DC JACK	HEC2305-01-260		1
DISPLAY UNIT				
01342534	SL-9351S	LED 7 SEGMENT		2
15029419	LA-301VB	LED (7SEGMENT)		4
03567134	RCM2234M-A	LCD		1
PWB ASSY				
73126856	D-BEAM KEYTOP ASSY			1
73126912	FADER BOARD ASSY			1
73126834	JACK BOARD ASSY			1
73126801	MAIN BOARD ASSY			1
73126890	PANEL KEYTOP ASSY	Include in PANEL BOARD ASSY		1
73126845	PS BOARD ASSY			1
IC				
15289105	IC (BIPOLAR OP AMP)	UPC4570G2-E2		1
01349590	IC (CMOS)	TC7WU04FU(TE12L)		2
01455312	IC (CMOS)	TC7WH74FU		1
01348945	IC (CMOS)	TC7SH32FU(TE85L)		1
03127589	IC (CMOS)	TC7S08FU		1
03015323	IC (CMOS)	TC74VHCT574AFT(EL)		1

IC			
02456756	IC (CMOS)	TC74VHCT04AFT(EL)	2
01890367	IC (CMOS)	TC74VHC175FT(EL)	2
03015389	IC (CMOS)	TC74VHC153FT(EL)	1
01675034	IC CMOS	TC74VHC138FT(EL)	2 +
01899167	IC (CMOS)	TC74VHC04FT(EL)	1
03016156	IC (CMOS)	TC74VHC00FT(EL)	1
01672634	IC (COMS)	TC74HC4052AFT(EL)	1
03341601	IC (FLASH MEMORY)	TC58DVM82A1TG00	1
15289402	IC (REGULATOR)	TA78L05F(TE12L)	1
03566067	IC(CUSTOM)	T6TV2TBG-0002(WX)	1
04127478	IC(FLASH MEMORY)	S29AL004D70TFI020	1
03565256	IC (REGULATOR)	REGULATOR TA78L09F(TE12L F)	1 +
03230667	IC (SWITCHING REGULATOR)	PQ1CZ41H2ZP	2
02671545	IC (REGULATOR)	PQ070XZ01ZP	2
02900545	IC (PHOTO COUPLER)	PC410LKNIP	1
02900690	IC	P2027A-08TR	1
15289151	IC (OP AMP)	NJM2904M-TE3	1
02563467	IC (SWITCHING REGULATOR)	NJM2374AM-TE1	1
04125812	IC(MASK ROM)	MR27T12800L-092TN03A	1
02900978	IC (USB CONTROLLER)	M66291GP	1
15189261	IC (BIPOLAR OP AMP)	M5218AFP-600E	5 +
15199937	IC (RESET)	M51953BFP-600C	1
04234934	IC(CPU)	M30302MAP-A28GP U0	1
03348812	IC (SDRAM)	M12L16161A-7T	2
03018301	IC (SDRAM)	K4S641632F-TC75	3
03459745	IC (CMOS)	HD74LVC540ATELL-E	1
03015234	IC (CMOS)	HD74LV32ATELL	4
02675689	IC (CMOS)	HD74LV245ATELL	9
02675667	IC (CMOS)	HD74LV21ATELL	1
02451690	IC (CMOS)	HD74LV08ATELL	2
02675645	IC (CMOS)	HD74LV04ATELL	2
03239434	IC (CMOS)	HD74LV02ATELL	4
02451912	IC (CMOS)	HD74LV00ATELL	1
02903723	IC (32BIT CPU)	HD6417706	1
03125889	IC(MOTOR DRIVER)	BA6287F-E2	8
03670356	IC (AD/DA)	AK4626VQP	1
TRANSISTOR			
02905501	TRANSISTOR	SSM3J02T	2 +
15329511	DIGITAL TRANSISTOR	DTC114TKT146	1
00239812	TRANSISTOR	DTC114EUT106	2 +
02670989	TRANSISTOR	DTB113ZK-146T	1
15329503	DIGITAL TRANSISTOR	DTA124EK T146	1
15329103T0	FET	2SK880-GR(TE85R)	1 +
15319115	TRANSISTOR	2SC4213-A(TE85L)	6
01121278	TRANSISTOR	2SA1576A T106 QRS	1
15309101	TRANSISTOR	2SA1037AKT146R	1
DIODE			
01900612	DIODE	TPS611(F)	1
03459534	LED(RED)	TLSU1002A(TO2)	18
03126134	LED(INFRARED)	TLN233(F)	1
03565401	LED	TLGU1002A(TO2)	1
03893601	LED	SLR343BCT3F	8
00785856	LED(RED)	SLR-342V3F	4
01904112	LED(RED)	SLR-342VCT32 N.P.Q RANK	3 +
15029348	LED (GREEN)	SLR-342MCT32	16
02781301	SCHOTTKY DIODE	RB160L-60 TE25	1
01780045	SCHOTTKY DIODE	RB051L-40	2
01905134	SCHOTTKY DIODE	MA7D49	1
01897189	ARRAY DIODE	MA147-(TX)	3 +
15339130	ARRAY DIODE	MA142WK-(TX)	1 +
02453156	LED	LNJ801TP6JA	5
RESISTOR			
03239523	MTL.FILM RESISTOR	RR0816Q-390-D	1
03239556	MTL.FILM RESISTOR	RR0816Q-100-D	1
03126234	MTL.FILM RESISTOR	RR0816P-822-D	1
01904956	MTL.FILM RESISTOR	RR0816P-821-D	1
03239567	MTL.FILM RESISTOR	RR0816P-683-D	1
01909734	MTL.FILM RESISTOR	RR0816P-682-D	4 +
02780801	MTL.FILM RESISTOR	RR0816P-563-D	1
02239612	MTL.FILM RESISTOR	RR0816P-472-D	4
03018878	MTL.FILM RESISTOR	RR0816P-471-D	1
03564312	MTL.FILM RESISTOR	RR0816P-393-D	1
01566912	MTL.FILM RESISTOR	RR0816P-333-D	1
01904989	MTL.FILM RESISTOR	RR0816P-332-D	4
03343067	MTL.FILM RESISTOR	RR0816P-302-D	1
02568401	MTL.FILM RESISTOR	RR0816P-272-D	10
02678545	MTL.FILM RESISTOR	RR0816P-153-D	4

RESISTOR					
	03342845	MTL.FILM RESISTOR	RR0816P-151-D	1	
	02010790	MTL.FILM RESISTOR	RR0816P-122-D	1	
	01904945	MTL.FILM RESISTOR	RR0816P-120-D	1	
	01905001	MTL.FILM RESISTOR	RR0816P-103-D	1 +	
	02673401	MTL.FILM RESISTOR	RR0816P-102-D	1 +	
	03678623	MTL.FILM RESISTOR	RPC50T470J	4	
	00567012	MTL.FILM RESISTOR	RPC05T 820 J	16	
	00567134	MTL.FILM RESISTOR	RPC05T 681 J	3 +	
	00566990	MTL.FILM RESISTOR	RPC05T 680 J	16	
	00567389	MTL.FILM RESISTOR	RPC05T 563 J	1	
	00567378	MTL.FILM RESISTOR	RPC05T 473 J	3	
	00567245	MTL.FILM RESISTOR	RPC05T 472 J	1	
	00567112	MTL.FILM RESISTOR	RPC05T 471 J	1	
	00566967	MTL.FILM RESISTOR	RPC05T 470 J	37	
	00567490	MTL.FILM RESISTOR	RPC05T 394 J	1	
	00567234	MTL.FILM RESISTOR	RPC05T 392 J	2	
	00567478	MTL.FILM RESISTOR	RPC05T 334 J	1	
	00567212	MTL.FILM RESISTOR	RPC05T 332 J	4	
	00567089	MTL.FILM RESISTOR	RPC05T 331 J	4	
	00566934	MTL.FILM RESISTOR	RPC05T 330 J	36	
	00566923	MTL.FILM RESISTOR	RPC05T 270 J	2	
	00567456	MTL.FILM RESISTOR	RPC05T 224 J	1	
	00567323	MTL.FILM RESISTOR	RPC05T 223 J	4	
	00567190	MTL.FILM RESISTOR	RPC05T 222 J	1	
	00567067	MTL.FILM RESISTOR	RPC05T 221 J	2 +	
	00566912	MTL.FILM RESISTOR	RPC05T 220 J	17	
	00567056	MTL.FILM RESISTOR	RPC05T 181 J	1	
	00567301	MTL.FILM RESISTOR	RPC05T 153 J	7 +	
	00567178	MTL.FILM RESISTOR	RPC05T 152 J	1 +	
	00567045	MTL.FILM RESISTOR	RPC05T 151 J	1	
	00567034	MTL.FILM RESISTOR	RPC05T 121 J	1	
	00567689	MTL.FILM RESISTOR	RPC05T 106 J	8	
	00567556	MTL.FILM RESISTOR	RPC05T 105 J	3 +	
	00567412	MTL.FILM RESISTOR	RPC05T 104 J	6 +	
	00567289	MTL.FILM RESISTOR	RPC05T 103 J	56	
	00567156	MTL.FILM RESISTOR	RPC05T 102 J	2 +	
	00567023	MTL.FILM RESISTOR	RPC05T 101 J	14	
	00566867	MTL.FILM RESISTOR	RPC05T 100 J	6 +	
	01011856	MTL.FILM RESISTOR	RPC05T 0R0 J	18	
	15399301	MTL.FILM RESISTOR	RPC10T 0R0 J	1	
!	03344734	RESISTOR POLYSWITCH	MINISMDC075-02	1	
	01783623	MTL.FILM RESISTOR	MCR50 JZH J 100	2	
	00346134	MTL.FILM RESISTOR	MCR25 JZH J 1R0	2	
	02898923	RESISTOR-ARRAY	EXBE10C104J	2	
	01457145	RESISTOR ARRAY	EXBE10C103J	9	
	03785712	RESISTOR-ARRAY	EXB28V470JX	35	
	03015301	RESISTOR-ARRAY	EXB28V330JX	14	
	03015278	RESISTOR-ARRAY	EXB28V220JX	37	
	03015290	RESISTOR-ARRAY	EXB28V104JX	3	
	03015289	RESISTOR-ARRAY	EXB28V103JX	20	
#	!	04230767	THEMISTOR RESISTOR	MINISMDC150F24-2	1
POTENTIOMETER					
	04017245	SLIDE POTENTIOMETER	RS60N11M	8	
	03568189	ROTARY POTENTIOMETER	RK12L12C0A0E	2	
CAPACITOR					
	02904923	CHEMICAL CAPACITOR	RV3-6V331MF80-R	2	
	02344990	CHEMICAL CAPACITOR	RV2-50V4R7M-R	1	
	02345145	CHEMICAL CAPACITOR	RV2-16V101M-R	7 +	
	02782734	CHEMICAL CAPACITOR	RE3-16V471M-T2	2	
	02127812	CHEMICAL CAPACITOR	RA2-25V470ME3#8-T2	22	
	02236701	CHEMICAL CAPACITOR	RA2-25V221MC-T2	1	
	02014890	CHEMICAL CAPACITO	RA2-16V221MT2	1	
	01900834	CHEMICAL CAPACITOR	RA2-16V101M-T2	2 +	
	03230678	CERAMIC CAPACITOR	GRM31MF11A106ZA01L	8	
	03348990	CHEMICAL CAPACITOR	EEUF1C121B	3	
	03458790	CHEMICAL CAPACITOR	EEE1CS100SR	12	
	03343045	CHEMICAL CAPACITOR	EEE0JA101SP	4	
	01674423	CERAMIC CAPACITOR	ECUV1H471JCV	2	
	01674401	CERAMIC CAPACITOR	ECUV1H331JCV	2 +	
	01674356	CERAMIC CAPACITOR	ECUV1H151JCV	1	
	01674167	CERAMIC CAPACITOR	ECUV1H100DCV	1	
	01674701	CERAMIC CAPACITOR	ECJ1VF1E104Z 0.1UF/16VK	99	
	01674712	CERAMIC CAPACITOR	ECJ1VF1A105Z	19	
	01674234	CERAMIC CAPACITOR	ECJ1VC1H330J	2	
	01674190	CERAMIC CAPACITOR	ECJ1VC1H150J	13	
	01674334	CERAMIC CAPACITOR	ECJ1VC1H101J	5 +	
	01674556	CERAMIC CAPACITOR	ECJ1VB1H472K	2	
	01674512	CERAMIC CAPACITOR	ECJ1VB1H222K	1	

CAPACITOR				
01674612	CERAMIC CAPACITOR	ECJ1VB1H103K		43
02129534	CERAMIC CAPACITOR	ECJ1VB1H102K		1 +
01346889	POLYEST. CAPACITOR	ECHU1H151JX5		4
01906612	POLYEST. CAPACITOR	ECHU1H122JX5		4
02783412	CHEMICAL CAPACITOR	6SVP150 OS-CON		2
INDUCTOR,COIL,FILTER				
00237212	CHOKO COIL	SH-202		1
01346089	CHOKO COIL	SBC3-331-551		1
04236978	EMI GASKET	RFSG-060100 L=30		1
04234689	EMI FILTER	OG-542925		1
01565578	FERRITE-BEAD	N1608Z601T01		17
01787056	FERRITE-BEAD	N1608Z102T01		2
01909645	FERRITE-BEAD	EXCML16A270U		2 +
02900945	CHOKO COIL	CR75-220KC		2
02900923	CHOKO COIL	CDRH4D28-6R8		2
CRYSTAL,RESONATOR				
02673134	CRYSTAL	MA-406 16.9344MHZ		1
00894034	CRYSTAL	MA-406 16.000MHZ TE24		1 +
01340745	CRYSTAL	MA-406 12MHZ		1
ENCODER				
01905467	ROTARY ENCODER	EVE GC1 F20 24B		1
CONNECTOR				
13369752	CONNECTOR	S2B-XH-A		1
13369556	CONNECTOR	B8B-XH-A(LF)(SN) JST		1
13439474	CONNECTOR	B2B-XH-A		1
03452934	CONNECTOR	30FMN-STK-A		1
02012089	CONNECTOR	30FMN-BTK		1
02780734	CONNECTOR	18FMN-STK		1 +
04010912	CONNECTOR	16FMN-STK-A (LF)(SN)		1 +
02011934	CONNECTOR	16FMN-BTK		2 +
02235467	CONNECTOR	14FMN-STK		1
02011912	CONNECTOR	14FMN-BTK		1
02782478	CONNECTOR	10FMN-STK		1
02782467	CONNECTOR	10FMN-BTK		1 +
WIRING, CABLE				
04237378	WIRING	W2 GND L=120		1
04126245	BAN CARD	BNCD-P=1.00-K-30-50		1
04231190	BAN CARD	BNCD-P=1.00-K-18-40		1
04126256	BAN CARD	BNCD-P=1.00-K-16-40		1
04126289	BAN CARD	BNCD-P=1.00-K-16-150		1
04231189	BAN CARD	BNCD-P=1.00-K-14-100		1
03235590	BAN CARD	BNCD-P=1.00-K-10-60		1
04126267	WIRING	8X110-P2.5-XHP-SCN-F		1
04126278	WIRING	2X90-P2.5-XHP-SCN-F		1
04126278	WIRING	2X90-P2.5-XHP-SCN-F		1
SCREWS				
40237101	SCREW M3X8	PAN MACHINE W/SW+SMALL PW BZC		5
40012945	SCREW M3X6	PAN MACHINE W/SW+PW BZC		16
02126156	SCREW M3X10	HEX SOCKET HEAD CAP TAPTITE P		8
40011323	SCREW 3X10	BINDING TAPTITE P BZC		15
40011312	SCREW 3X8	BINDING TAPTITE P BZC		26
40011090	SCREW 3X6	BINDING TAPTITE B BZC		7
40230590	SCREW M3X10	BINDING MACHINE NI		1
PACKING				
04234245	PACKING PAD	UPPER		1
04234234	PACKING PAD	R		1
04234223	PACKING PAD	L		1
04234212	PACKING CASE			1
MISCELLANEOUS				
03239989	PWB SPACER	WLS-10-0		1
12199584	GROUNDING TERMINAL	M1698		3 +
02890945	CLAMP	LWSM-0605		1
03014945	LED SPACER	LH-3-8		8
02230578	LED SPACER	LDS-50R		1
12169368	LED SPACER	LDS-40B		1
12169406	LED SPACER	LDS-100Y 10MM		4
12199579	CARD SPACER	KGLS-5RT		1
40016512	INSULOK TIE	80M/M T-18S		1

MISCELLANEOUS				
	03786845	IC SOCKET	71251-0012	1
	40567623	DOUBLE-FACED TAPE	#575 W15MM 30M	80
	22365714	CORD HOOK		1
	01235378	FOOT		4
	04125590	LEAF SPRING		1
ACCESSORIES (Standard)				
	73126767	OWNER'S MANUAL	JAPANESE	1
	73126945	OWNER'S MANUAL	ENGLISH	1
	04236423	CD-ROM	V1.01	1
	40232334	WARRANTY CARD	MOCHIKOMI JAPAN ONLY	1
!	04236112	AC ADAPTOR WITHOUT AC CORD	PSB-7U DC	1
!	02562456	AC CORD SET	120V 1.0M (NON POLAR)	1
!	01903356	AC CORD SET	230V EU 1.0M FOR PSB	1
!	00905234	EURO CONVERTER PLUG	ECP-BR-5A	1
!	03785590	AC CORD SET	240V A	1
			Plug for "230V E" use SC-078-NA05	

## CHECKING THE VERSION NUMBER

1. Power-on the MC-808.
2. Press [SYSTEM] to enter System mode.
3. Hold down [SHIFT] and press keyboard pad [14].
4. Use [CURSOR < >] to select [Version].
5. Note the program version number.

```
SYSTEM: INFO
          Version 1.00
```

\* The version number may be different (e.g., "1.02") due to updates. For details, refer to the service information.

## FACTORY RESET INSTRUCTIONS



The data of internal user memory will be lost when you execute a factory reset. If the MC-808's internal memory contains data that you don't want to lose, use the User Data Backup function to save it on a CompactFlash card. (p.???"User Data Backup)



Never turn off the power while the Factory Reset operation is being executed. Doing so may destroy the contents of memory.

1. Press [SYSTEM] to enter System mode.
2. Hold down [SHIFT] and press keyboard pad [16].
3. Use [CURSOR < >] to select "Factory Reset."

```
SYSTEM: UTILITY
Factory Reset[ENTER]
```

4. Press [ENTER]; the following message will be displayed.

```
Factory Reset,
Are You Sure?
```

5. To execute the Factory Reset operation, press [ENTER].
  - \* If you decide to cancel, press [EXIT].
  - \* When you execute Factory Reset, it will take approximately five minutes for the operation to be completed.
6. When the LCD display indicates "Please Power Off," turn the power off and then on again.

## Saving and loading data

### Card Format

Before using a CompactFlash card for the first time, you must format it using the MC-808.



The entire contents of the CompactFlash card will be erased when you execute the Format operation.

1. With the MC-808 powered-off, insert the CompactFlash card into the front panel memory card slot.
2. Power-on the MC-808.
3. Press [SYSTEM] to enter System mode.
4. Hold down [SHIFT] and press keyboard pad [15].
5. Use [CURSOR < >] to select "Card Format."

```
SYSTEM: CARD
Card Format [ENTER]
```

6. Press [ENTER].
  7. A confirmation message will appear. If you want to format the card, press [ENTER].
- \* If you decide to cancel, press [EXIT].

```
Card Format,
Are You Sure?
```

### User Data Backup

This operation saves all user data from the user area to a CompactFlash card. The following user data will be saved.

- User patterns
- User patches
- User rhythm sets
- Songs
- Samples
- Pattern sets
- RPS sets
- Arpeggio styles
- Chord forms
- System settings



In order to execute the User Backup operation, the CompactFlash card must have up to approximately 64 MB of free space.

1. With the MC-808 powered-off, insert the CompactFlash card into the front panel memory card slot.
2. Power-on the MC-808.
3. Press [SYSTEM] to enter System mode.
4. Hold down [SHIFT] and press keyboard pad [15].
5. Use [CURSOR < >] to select "User Backup."

```
SYSTEM: CARD
User Backup [ENTER]
```

6. Press [ENTER].
  7. A confirmation message will appear. If you want to execute the backup, press [ENTER].
- \* If you decide to cancel, press [EXIT].

```
User Backup,
Are You Sure?
```

### User Data Restore

This operation restores user data previously saved by the backup operation on a CompactFlash card back into the MC-808's internal user area.



The entire current contents of the user area will be overwritten when you execute the User Restore operation.

1. With the MC-808 powered-off, insert the CompactFlash card into the front panel memory card slot.
2. Power-on the MC-808.
3. Press [SYSTEM] to enter System mode.
4. Hold down [SHIFT] and press keyboard pad [15].
5. Use [CURSOR < >] to select "User Restore."

```
SYSTEM: CARD
User Restore [ENTER]
```

6. Press [ENTER].
  7. A confirmation message will appear. If you want to execute the restore operation, press [ENTER].
- \* If you decide to cancel, press [EXIT].

```
User Restore,
Are You Sure?
```

8. When the LCD display indicates "Please Power Off," turn the power off and then on again.

## Updating the system



Before you execute the system update, please use the User Backup function to save the contents of internal user memory to a CompactFlash card. (p.?? "User Backup")



If you replace the main board, you'll need to specify the export region after updating the system.

### Required items

- The MC-808 itself
- Update CD-ROM (#17041873)
- Two CompactFlash cards (1 GB or less; one for the update, one for user data backup)
- Computer (with CD-ROM drive and a card reader/writer that supports CompactFlash, OS: Windows Me/2000/XP)



Do not use a Mac under any circumstances.

### Update procedure

1. Start up your computer, and insert the CompactFlash card and the Update Data For Service CD-ROM into the computer.
2. Using your computer, format the CompactFlash card.
3. From the Update Data For Service CD-ROM, copy the entire "ROLAND" folder into the CompactFlash card.
4. Using the Safely Remove Hardware icon shown in the taskbar at the lower right of your computer screen, cancel the connection between your computer and the card reader/writer.
5. Remove the CompactFlash card from your card reader/writer.
6. With the MC-808 powered-off, insert the above card into the MC-808.
7. When you power-on the MC-808, the update will begin automatically.
  - \* Once the update begins, it will take approximately five to ten minutes for the process to be completed.
8. When the LCD display indicates "- Completed." the update has been completed.

9. This completes the update procedure. Power-off the MC-808, and remove the CompactFlash card from the MC-808.
10. Power-on the MC-808, and execute Test mode.

### If the update fails

- Turn off the power, and then turn it on again to execute the update again.
- If the update fails again, it is probably that the update card was not created correctly. Please repeat the process of creating the update card, and try the update again.
- If you are still unsuccessful, replace the main board.

### If you replace the main board

If you execute the update after replacing the main board, you'll need to set the export region correctly.

To verify or change the export region, proceed as follows.

### Changing the export region

1. Power-on the MC-808.
2. Press [SYSTEM] to enter System mode.
3. Hold down [SHIFT] and press keyboard pad [14].
4. Use [CURSOR < >] to select [Version].
5. Hold down [SCALE MEASURE] and press the part buttons in the order of [1], [7], [8], [9].
6. You will enter the Startup page. Hold down [SHIFT] and press part button [14]. The following indication will appear in the LCD display.

7. Turn the [VALUE dial] or use [INC][DEC] to select either "100," "117," or "230/240" as the appropriate voltage for the export region.
8. Press [ENTER], and a factory reset will be executed.
  - \* If you don't want to execute a factory reset, power-off the MC-808.

9. When the factory reset is completed, the LCD display will show the following.

10. Turn the MC-808 power off, and then on again.

### Checking the export region

The order of pattern USER 003 and following will differ depending on the export region.

After you power-on the MC-808, press [CURSOR >] twice to select the USER 003 pattern, and note the export region indicated by the pattern name that appears, as listed below.

- "100": Get It
- "117": My Only Tap
- "230/240": Melodic Trance 2



## Test mode



All internal user memory data will be lost when you execute Test mode. If the MC-808's internal memory contains data that you want to keep, please use the User Backup function to save the data on a CompactFlash card. (p.??? "User Backup")

### Required items

- CompactFlash (1 GB or less)
- Memory (DIMM: 128--512 MB)
- Headphones
- Noise meter
- Computer (with USB connector, OS: Windows Me/2000/XP)
- USB cable (one)
- MIDI cable (one)
- Audio cables (six)
- Monitor speakers
- A device that has audio outputs (e.g., CD/MD player)

### Preparations for test mode

1. Make sure that the MC-808 and computer are powered-off.
2. Insert the CompactFlash card into the front panel memory card slot.
3. Remove the cover on the bottom of the MC-808, and remove the memory.
4. Connect headphones to PHONES.
5. Connect monitor speakers to OUTPUT MIX L/R.
6. Connect monitor speakers to OUTPUT DIRECT L/R.
7. Connect your CD/MD player to INPUT L/R.
8. Use a MIDI cable to connect MIDI IN and MIDI OUT.
9. Use a USB cable to connect the USB connector to your computer (with USB connector, OS: Windows Me/2000/XP).
10. Turn the OUTPUT volume and INPUT volume to the MIN position, and then power-on the MC-808.
11. Make sure that "USB Mode" is set to "STORAGE."
 

Use the following procedure to check:

  1. Press the MC-808's [SYSTEM] to enter System mode.
  2. Hold down [SHIFT] and press keyboard pad [8].
  3. Use [CURSOR < >] to select "USB Mode."
  4. Turn the [VALUE dial] or use [INC][DEC] to select [STORAGE].



12. Start up your computer.

## Entering test mode

1. Power-on the MC-808.
2. Press [SYSTEM] to enter System mode.
3. Hold down [SHIFT] and press keyboard pad [14].
4. Use [CURSOR < >] to select [Version].
5. Hold down [SCALE MEASURE] and press the part buttons in the order of [1], [7], [8], [9].
6. You will enter the Startup page. Press part button [12], and Test mode (0.Service Mode) will begin.

## Exiting test mode

Power-off the MC-808.

## Basic operations in test mode

Basic operations while you're in Test mode are as follows.

[SHIFT] + [CURSOR >]: Forcibly advance to the next test item.

[SHIFT] + [CURSOR <]: Forcibly return to the previous test item.

[SHIFT] + part button: Move to the test item corresponding to part button [1]--[14].

For details, refer to the explanations that follow.

Part button	Test item
Part button [1]	Self Check
Part button [2]	Output (PHONES) Test
Part button [3]	Output (MIX) Test
Part button [4]	Output (DIRECT) Test
Part button [5]	Input Test
Part button [6]	Mic Test
Part button [7]	Demo Play/Mute/7SEG Test
Part button [8]	D Beam Test
Part button [9]	Switch & LED Test
Part button [10]	Touch Sens Test
Part button [11]	LCD/ENCODER Test
Part button [12]	USB Test
Part button [13]	Noise Check
Part button [14]	Factory Reset

## Test items

### 0. Version check

When you enter Test mode, you will start with the Version Check item



The program version number will appear in the LCD display and the 7-segment display.

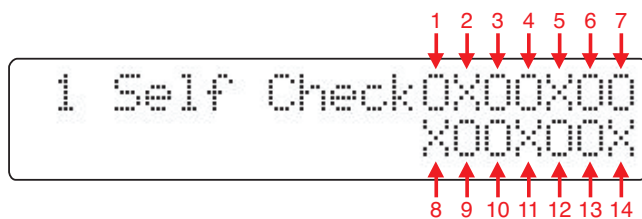
\* The version number shown may be change; e.g., "1.02"

Press [CURSOR >] to proceed to the next test item.

### 1. Self Check

This tests various devices.

When you enter the Self Check, the LCD display will indicate the following, and will automatically test a total of fourteen items.



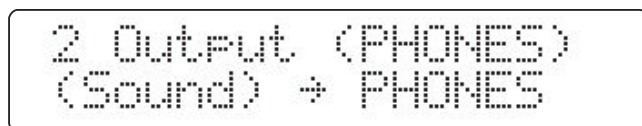
If all are "O" (ok), you will automatically proceed to the next test item. If a problem is found, an "X" will be shown to indicate the location of the problem. (You will not proceed automatically.)

LCD display indication and appropriate service action

LCD display indication	Service action
1 Version	Update the program
2 SubCPU	Check that IC1 (PANEL) and the MAIN-PANEL wiring are installed correctly.
3 FLASH (NOR)	Check that IC2 (MAIN) is installed correctly.
4 SD-RAM (MAIN)	Check that IC3 and 6 (MAIN) are installed correctly.
5 MIDI	Check that IC7 and JK2 (PS) and the MAIN-PS wiring are installed correctly.
6 WX	Check that IC47 (MAIN) is installed correctly.
7 SD-RAM (DSP)	Check that IC51 (MAIN) is installed correctly.
8 WAVE ROM	Check that IC46 (MAIN) is installed correctly.
9 USBC	Check that IC30 (MAIN) is installed correctly.
10 CF	Check that CN15 (MAIN) is installed correctly.
11 DIMM	Check that CN12 (MAIN) is installed correctly.
12 FLASH (NAND)	Check that IC28 and 29 (MAIN) are installed correctly.
13 SD-RAM (SMPL)	Check that IC45 and 49 (MAIN) are installed correctly.
14 SLIDER (1-8)	Check that the FADER board and the two sets of wiring connecting the FADER board are installed correctly.

### 2. Output (PHONES) test

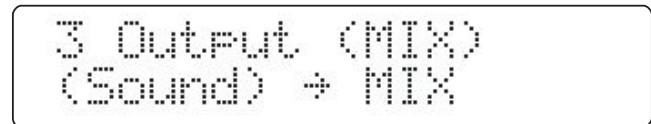
The LCD display will show the following.



Test the audio signal (L/R) that is output from PHONES. Slowly turn the OUTPUT volume toward the MAX position. The output will be L: 110 Hz sine wave, R: 220 Hz sine wave. If the output is correct, press [CURSOR >] to proceed to the next test item.

### 3. Output (MIX) test

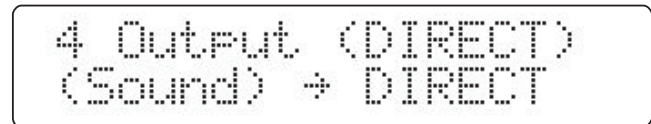
The LCD display will show the following.



Test the audio signal (L/R) that is output from OUTPUT MIX. The output will be L: 330 Hz sine wave, R: 440 Hz sine wave. If the output is correct, press [CURSOR >] to proceed to the next test item.

### 4. Output (DIRECT) test

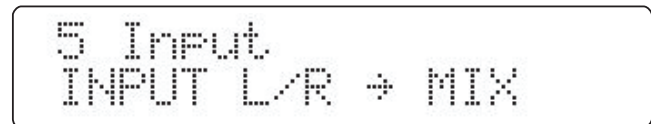
The LCD display will show the following.



Test the audio signal (L/R) that is output from OUTPUT DIRECT. The output will be L: 660 Hz sine wave, R: 880 Hz sine wave. If the output is correct, press [CURSOR >] to proceed to the next test item.

### 5. Input test

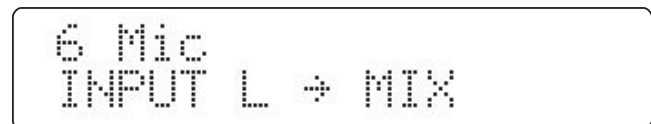
The LCD display will show the following.



Input an audio signal to INPUT L/R. Slowly turn the INPUT volume toward the MAX position. Compare the audio signal being input to INPUT L/R with the audio signal that is being output from MIX L/R. If there is no problem, turn the INPUT volume toward the MIN position, and then press [CURSOR >] to proceed to the next test item.

### 6. Mic test

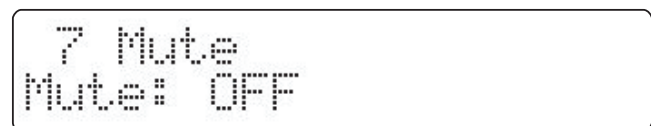
The LCD display will show the following.



Input an audio signal into INPUT L. Slowly turn the INPUT volume toward the MAX position. Compare the audio signal being input to INPUT L with the audio signal that is being output from MIX L. If there is no problem, press [CURSOR >] to proceed to the next test item.

### 7. Demo Play/Mute/7-segment test

This tests the mute circuit and the 7-segment display. The LCD display will show the following, and an internal pattern of the MC-808 will begin playing.



Verify that an audio signal is output from the PHONES jack or the OUTPUT MIX L/R jacks. Next, verify that while you hold down [TAP], the LCD display indicates [Mute: ON] and the audio signal is muted. Visually verify that the 7-segment display lights in the order of "top right" - "bottom right" - "bottom" - "bottom left" - "top left" - "top" - "middle" -

“decimal point.”

If there is no problem, press [CURSOR >] to proceed to the next test item.

## 8. D Beam test

This tests the D Beam controller.

The LCD display will show the following.

8 D Beam  
Value: 0 Sens: 64

Turn the [VALUE dial] or use [INC][DEC] to adjust the [Sens] value in order to satisfy the following three conditions.

- The Value must be “0” or “---” when your hand is not located above the D Beam controller.
- When you place your hand above the D Beam controller and move it downward, the Value must be “1”--“30” when your hand is approximately 40 cm from the panel.
- The Value must be “127” when your hand is approximately 5 cm from the panel.

When the values of “0” and “127” have been detected, you will automatically proceed to the next test item.

## 9. Switch and LED test

This tests the operation of the switches and LEDs.

The LCD display will show the following.

9 Switch & LED  
1: SOLO\_SYNTH

Successively press each switch as directed by the LCD display.

If the switch has an LED, the corresponding LED will light.

If the switch does not have an LED, all LEDs will light.

A beat tone will sound when you operate a controller.

There are a total of 85 switches and LEDs, and when you press [85: TAP], you will automatically proceed to the next test item.

## 10. Touch Sens test

This tests the touch sensitivity of the faders.

The LCD display will show the following.

10 Touch Sens

One by one, touch your finger to each of the eight faders.

When the touch sensitivity for a fader has been detected, that fader will move automatically and a beep tone will sound.

If there are no problems, you will automatically proceed to the next test item.

## 11. LCD/encoder test

This tests the operation of the LCD display and [VALUE dial].

The LCD display will show the following.

Visually verify that the contrast of the LCD display changes when you move the [VALUE dial] to left and right.

If there are no problems, you will automatically proceed to the next test item.

## 12. USB test

This tests USB operation.

The LCD display will show the following.

12 USB  
Connect USB to PC.

When the lower line of the LCD display indicates [USB Test Completed], use the Safely Remove Hardware icon located in the taskbar at the lower right of your computer screen to halt the connection to the MC-808.

Press [CURSOR >] to proceed to the next test item.

## 13. Noise check

You will use a noise meter to check the residual noise.

The LCD display will show the following.

13 Noise Check  
Check Noise Levels.

Turn the OUTPUT volume to the MAX position.

Set the input filter of your noise meter to DIN Audio.

Verify that OUTPUT MIX is -80 dB or lower and that OUTPUT DIRECT is -80 dB or lower.

If there are no problems, press [CURSOR >] to proceed to the next test item.

## 14. Factory reset

The MC-808's factory-set data will differ depending on the export region.

The export region is indicated by the voltage, and is one of the following three.

- “100”
- “117”
- “230/240”

If the export region is set to “100,” the LCD display will show the following.

14 Factory Reset: 100  
Press 'ENTER'.

Turn the [VALUE dial] or use [INC][DEC] to select “100,” “117,” or “230/240” as the appropriate voltage for the export region.

When you've specified the export region, press [ENTER], and a factory reset will be executed.

When the Factory Reset is completed, the LCD display will show the following.

COMPLETED : 100  
Please Power Off.

Power-off the MC-808, and verify that the export region has been set correctly. (p.??? Checking the export region)

## Changing the export region

1. Power-on the MC-808.
2. Press [SYSTEM] to enter System mode.
3. Hold down [SHIFT] and press keyboard pad [14].
4. Use [CURSOR < >] to select [Version].
5. Hold down [SCALE MEASURE] and press the part buttons in the order of [1], [7], [8], [9].
6. You will enter the Startup page. Hold down [SHIFT] and press part button [14]. The following indication will appear in the LCD display.

Factory Reset  
: 100

7. Turn the [VALUE dial] or use [INC][DEC] to select either "100," "117," or "230/240" as the voltage appropriate for the export region.
8. Press [ENTER], and a factory reset will be executed.

Factory Reset  
Now Executing . . .

9. When the factory reset is completed, the LCD display will show the following.

Please Power Off.

10. Turn the MC-808 power off, and then on again.

## Checking the export region

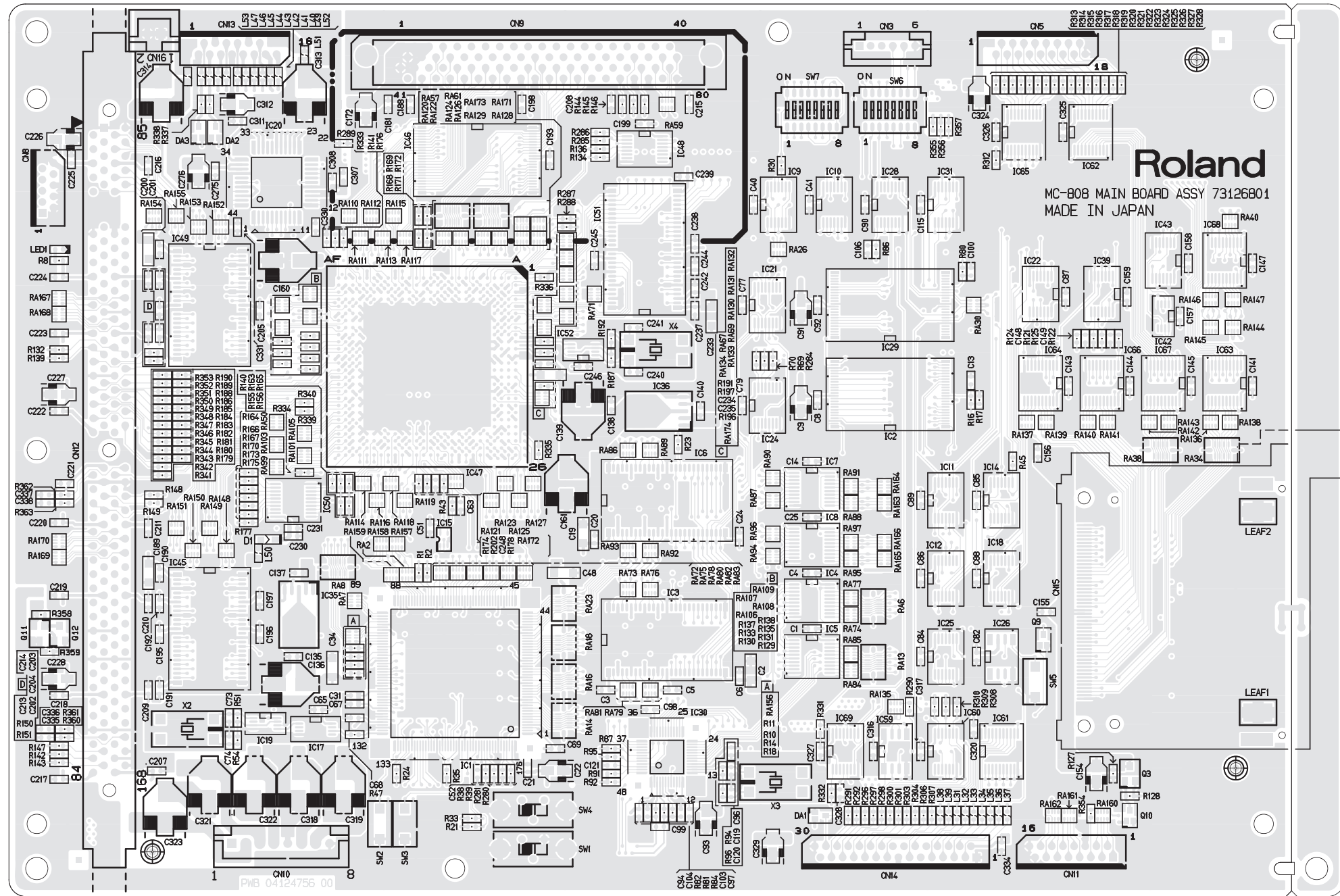
The order of pattern USER 003 and following will differ depending on the export region.

After you power-on the MC-808, press [CURSOR >] twice to select the USER 003 pattern, and note the export region indicated by the pattern name that appears, as listed below.

- "100": Get It
- "117": My Only Tap
- "230/240": Melodic Trance 2

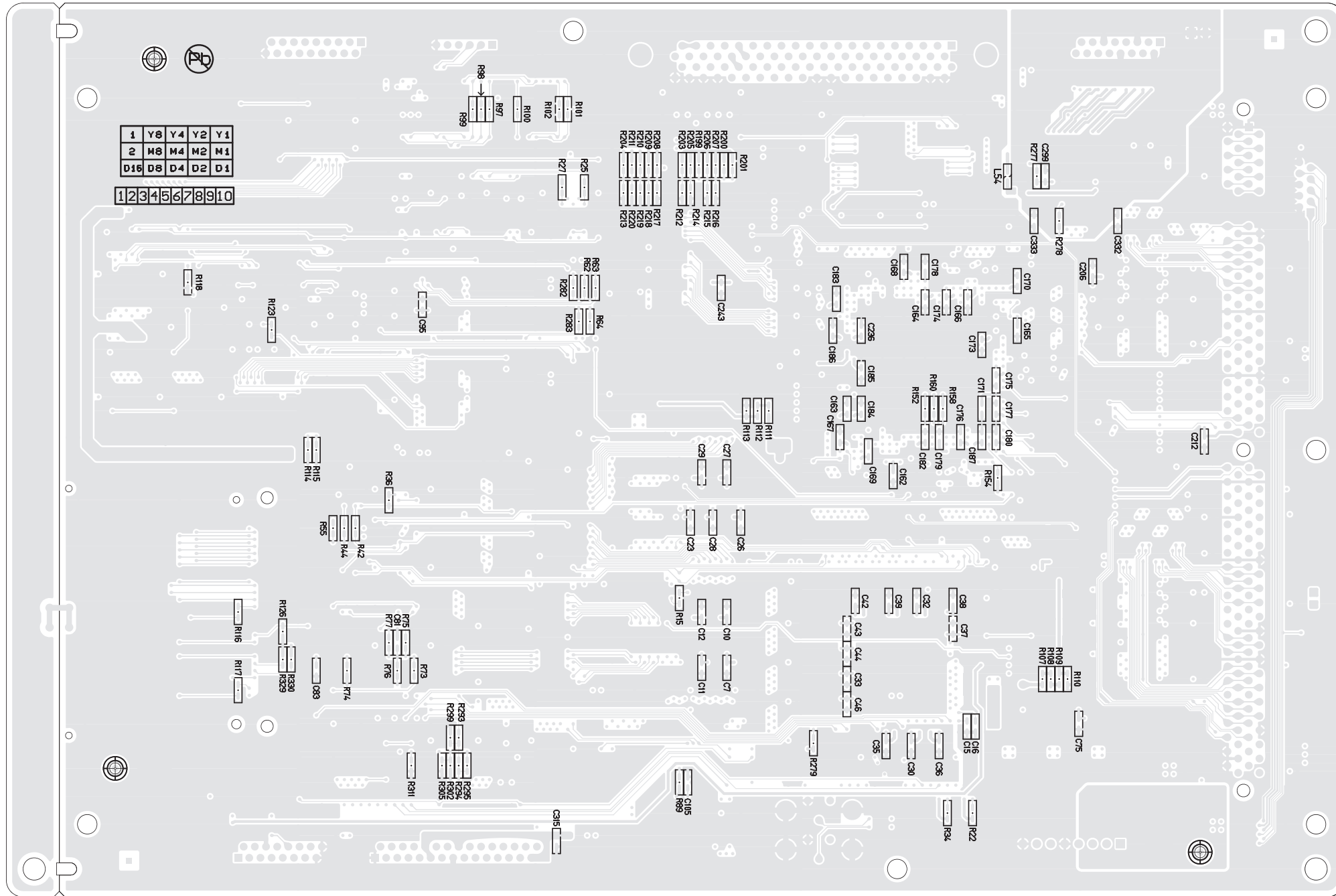


# CIRCUIT BOARD (MAIN)



View from components side

# CIRCUIT BOARD (MAIN)



1	Y8	Y4	Y2	Y1
2	H8	H4	M2	M1
D16	D8	D4	D2	D1

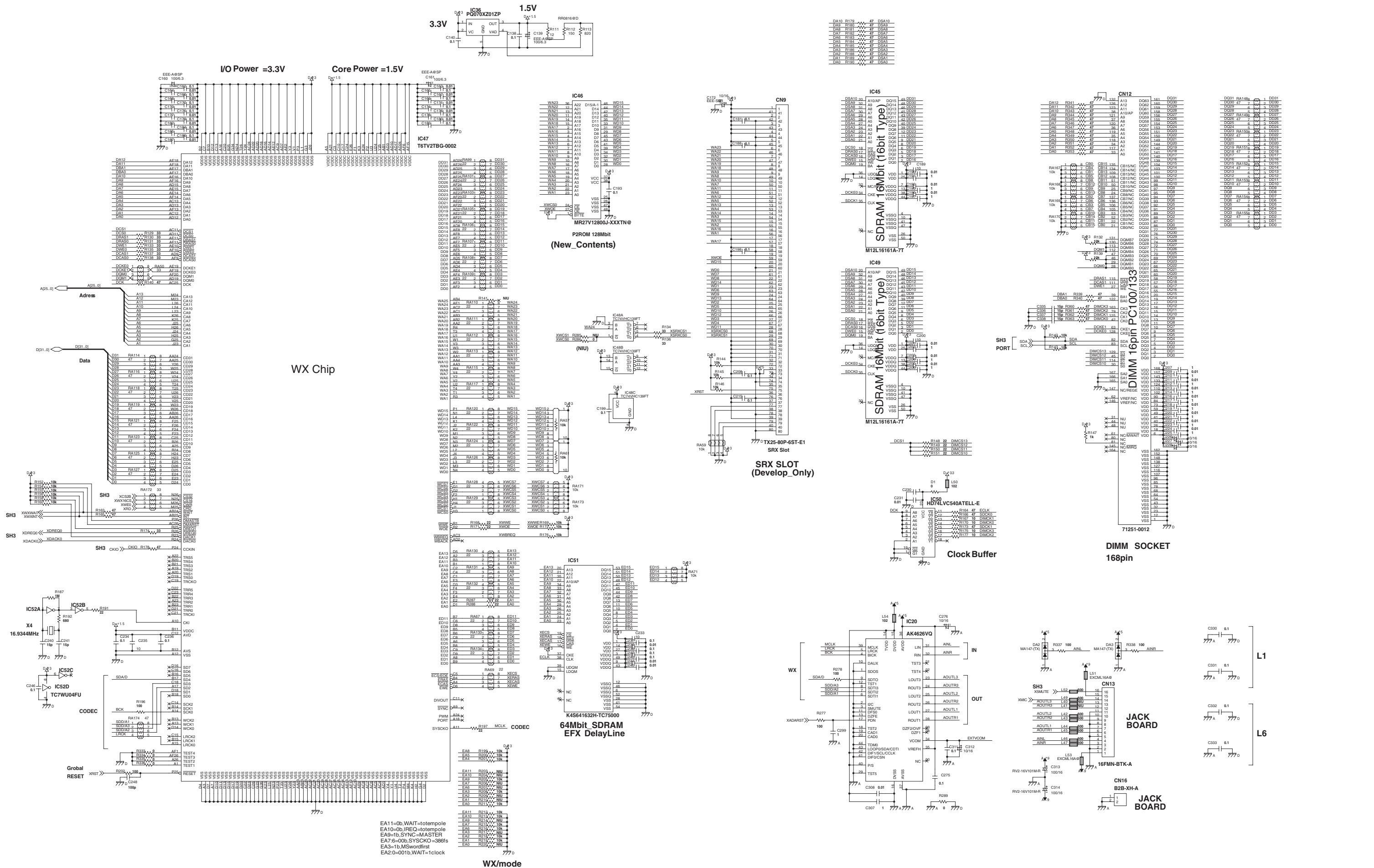
1 2 3 4 5 6 7 8 9 10

View from foil side



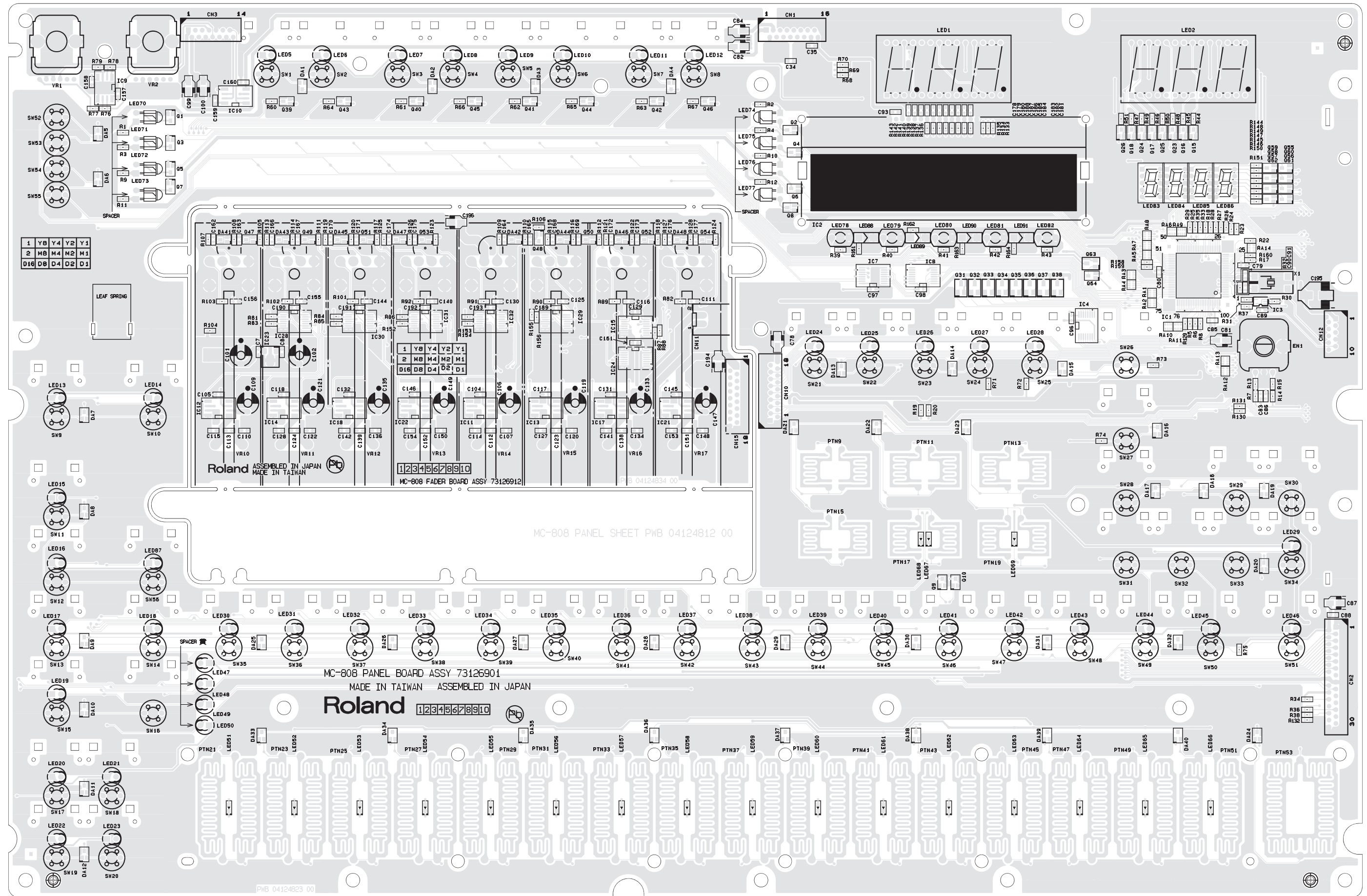


# CIRCUIT DIAGRAM (MAIN 2/3)



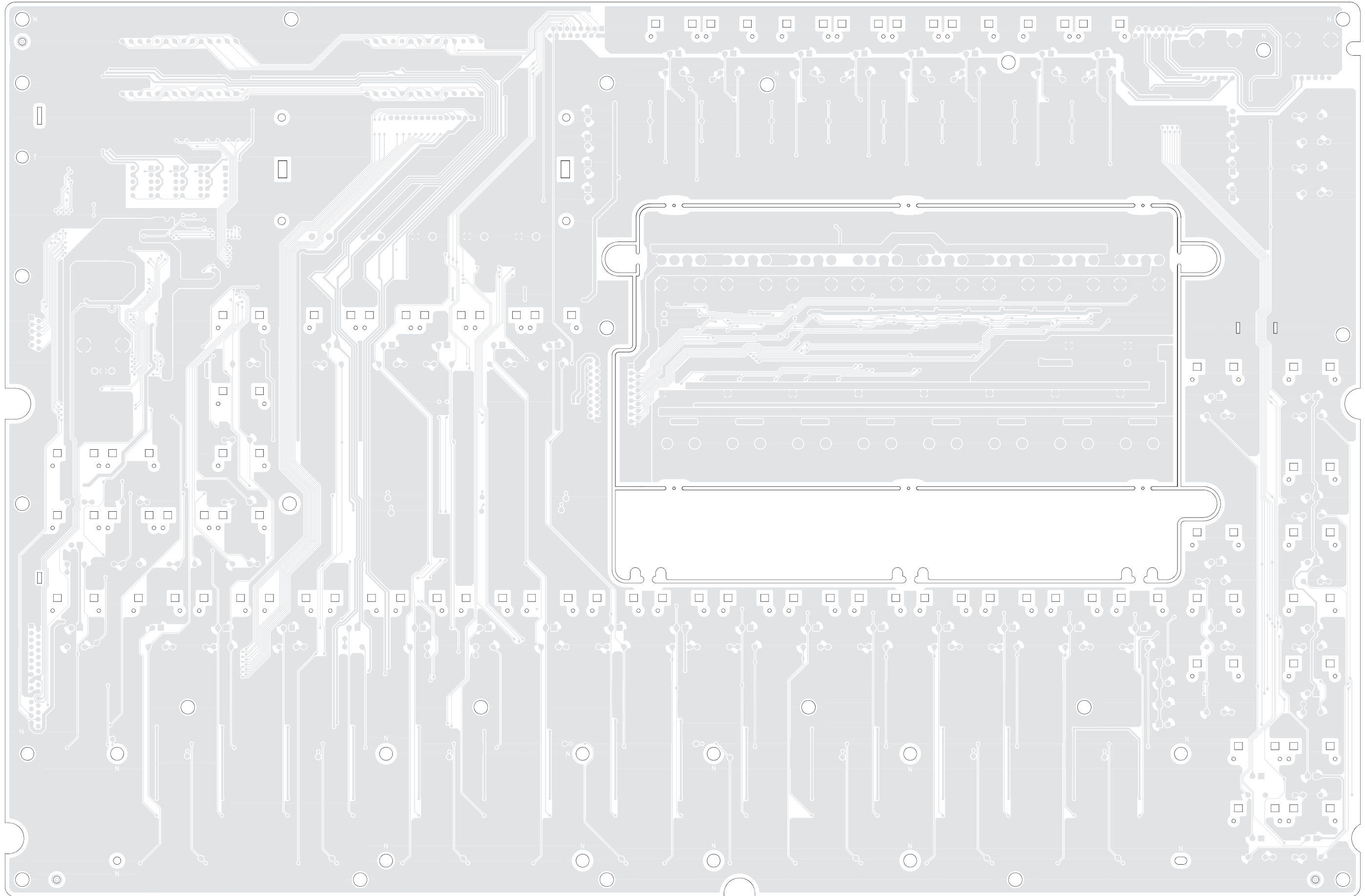


# CIRCUIT BOARD (PANEL)



View from components side "scale=0.90"

**CIRCUIT BOARD (PANEL)**

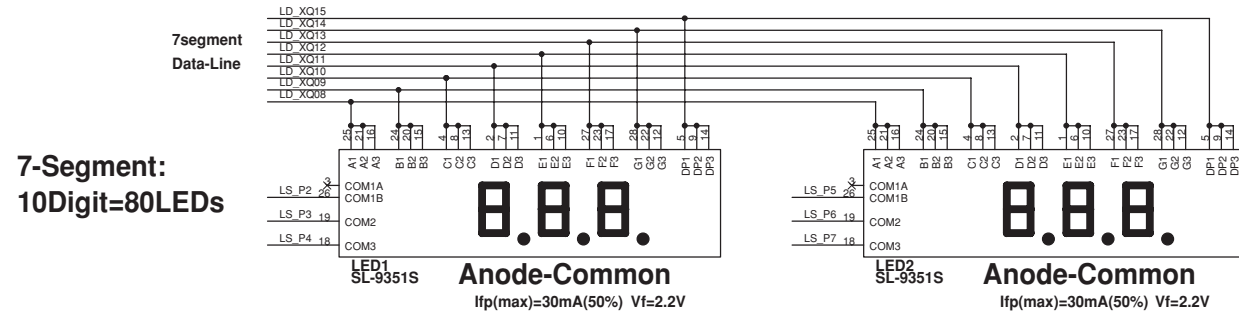


View from foil side "scale=0.90"

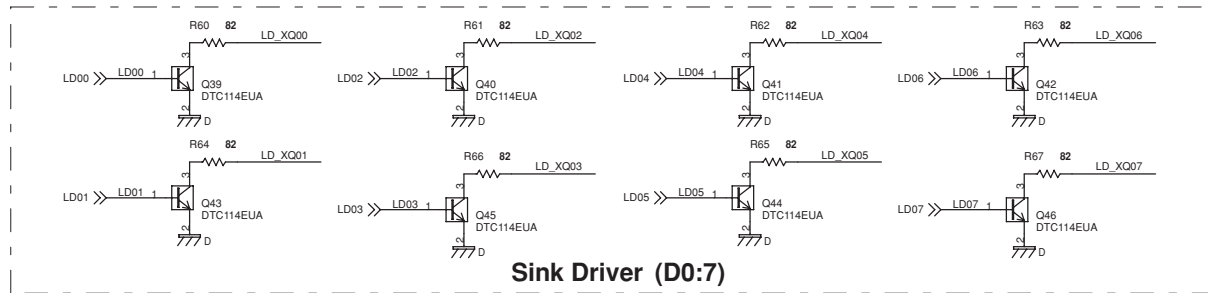
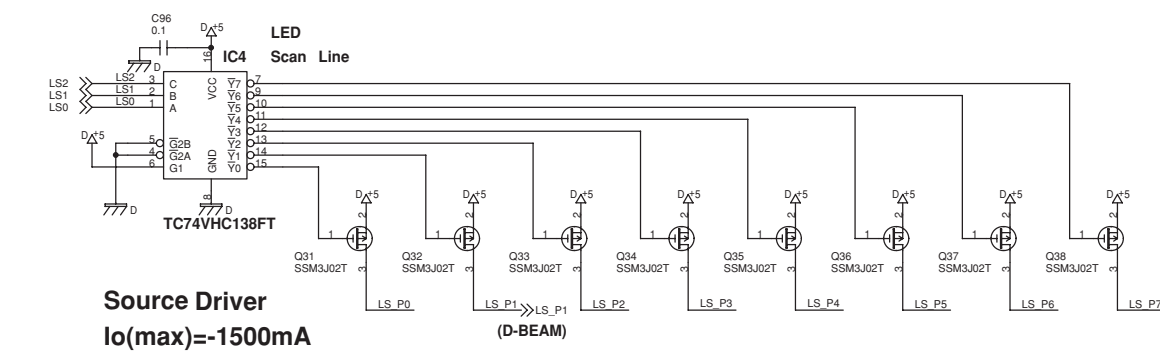
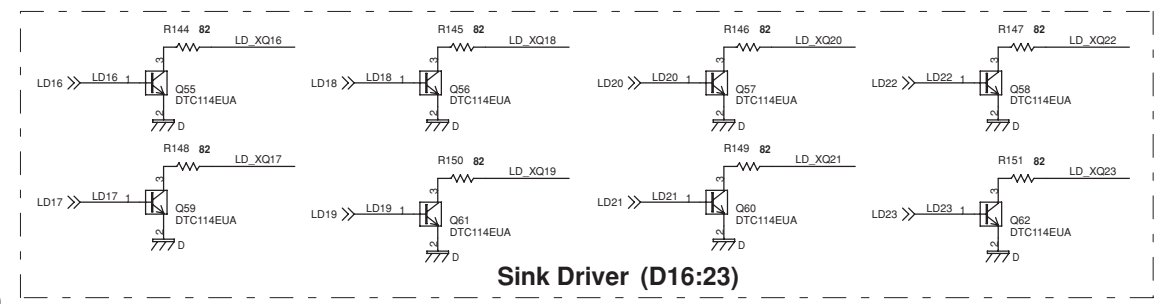
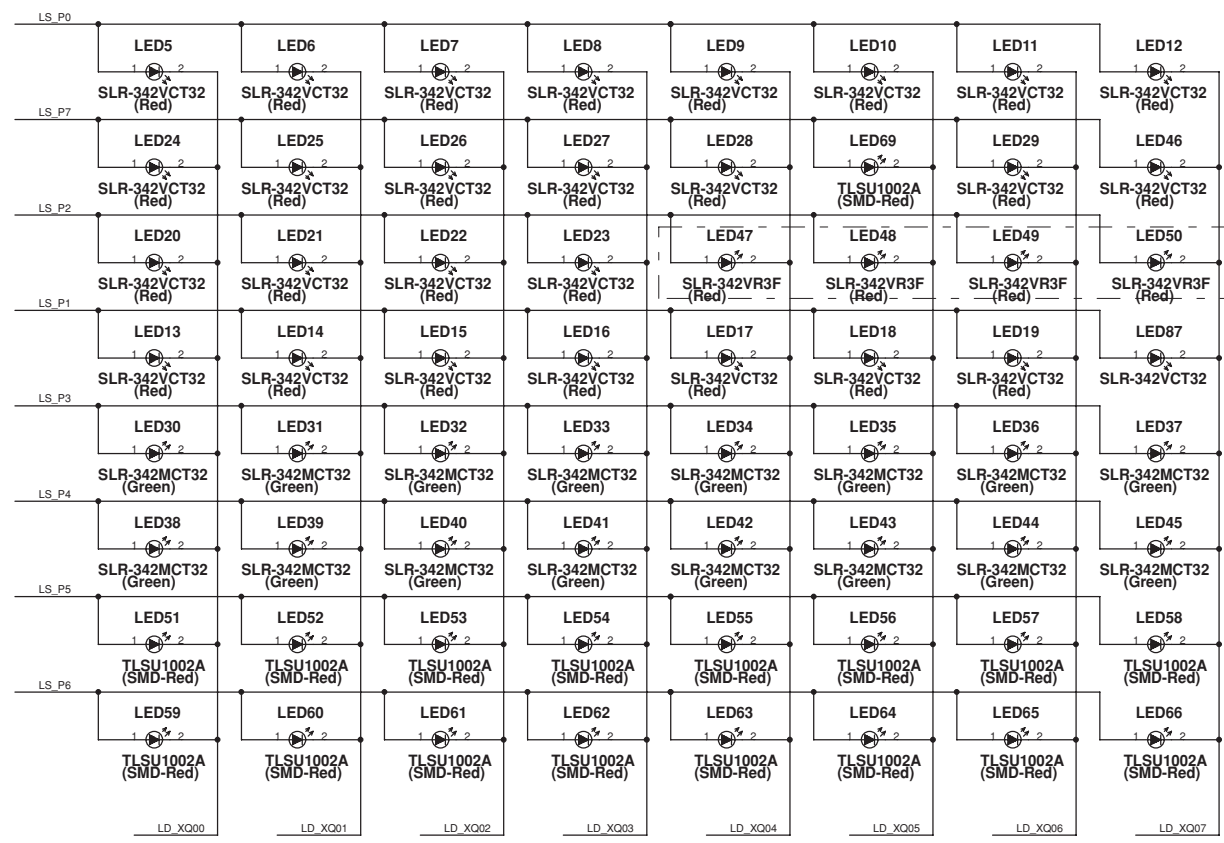
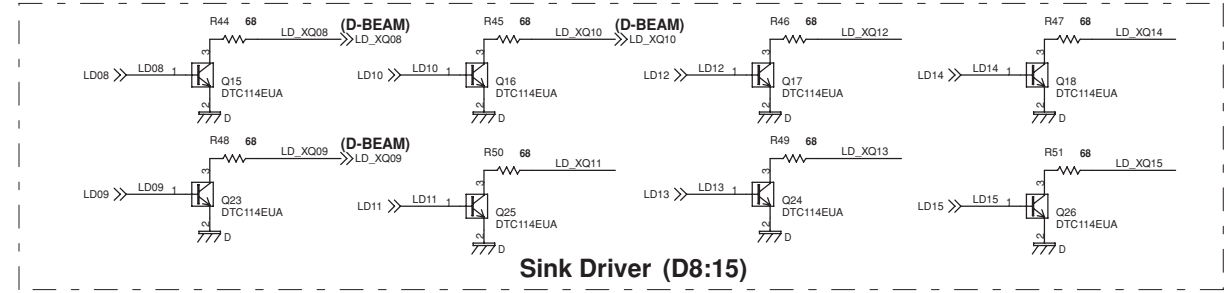
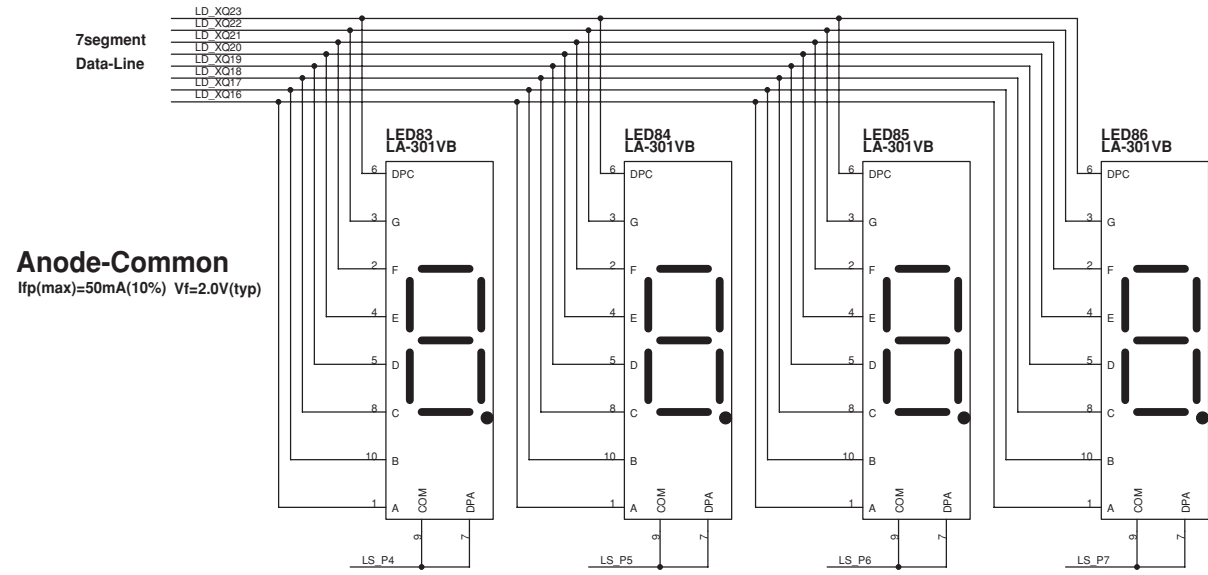


# CIRCUIT DIAGRAM (PANEL 2/3)

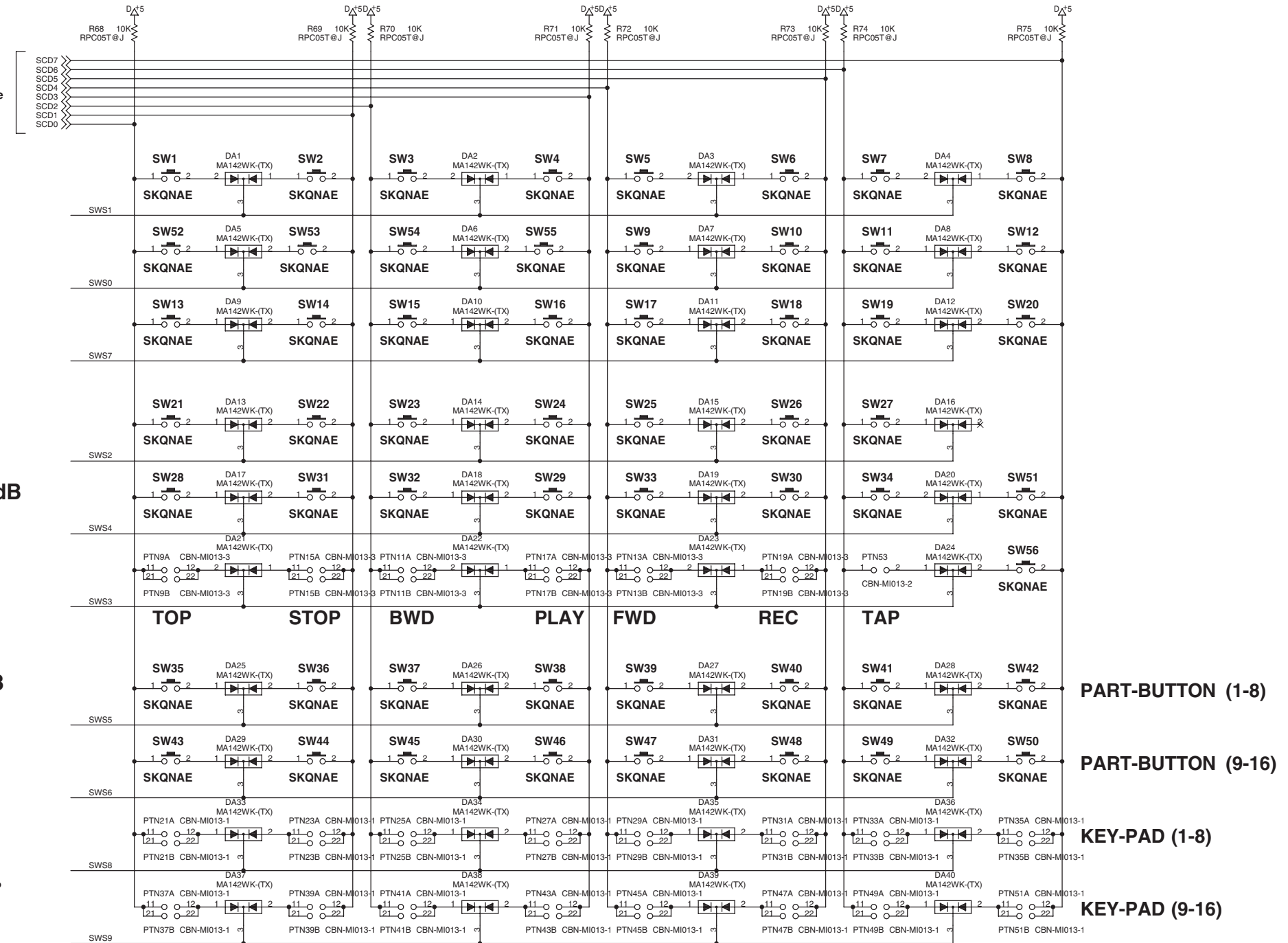
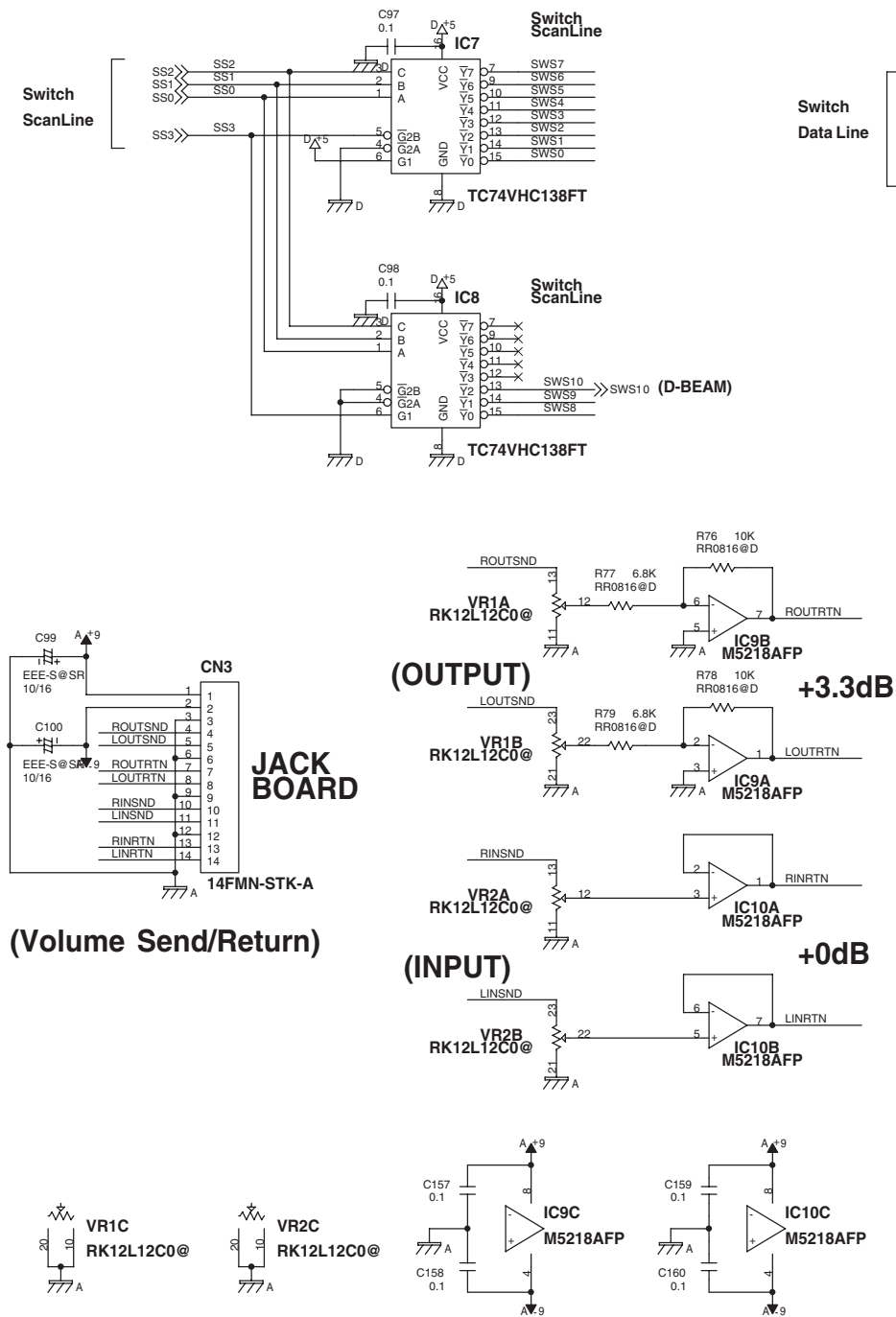
## Pattern Indicator



## Temp Indicator



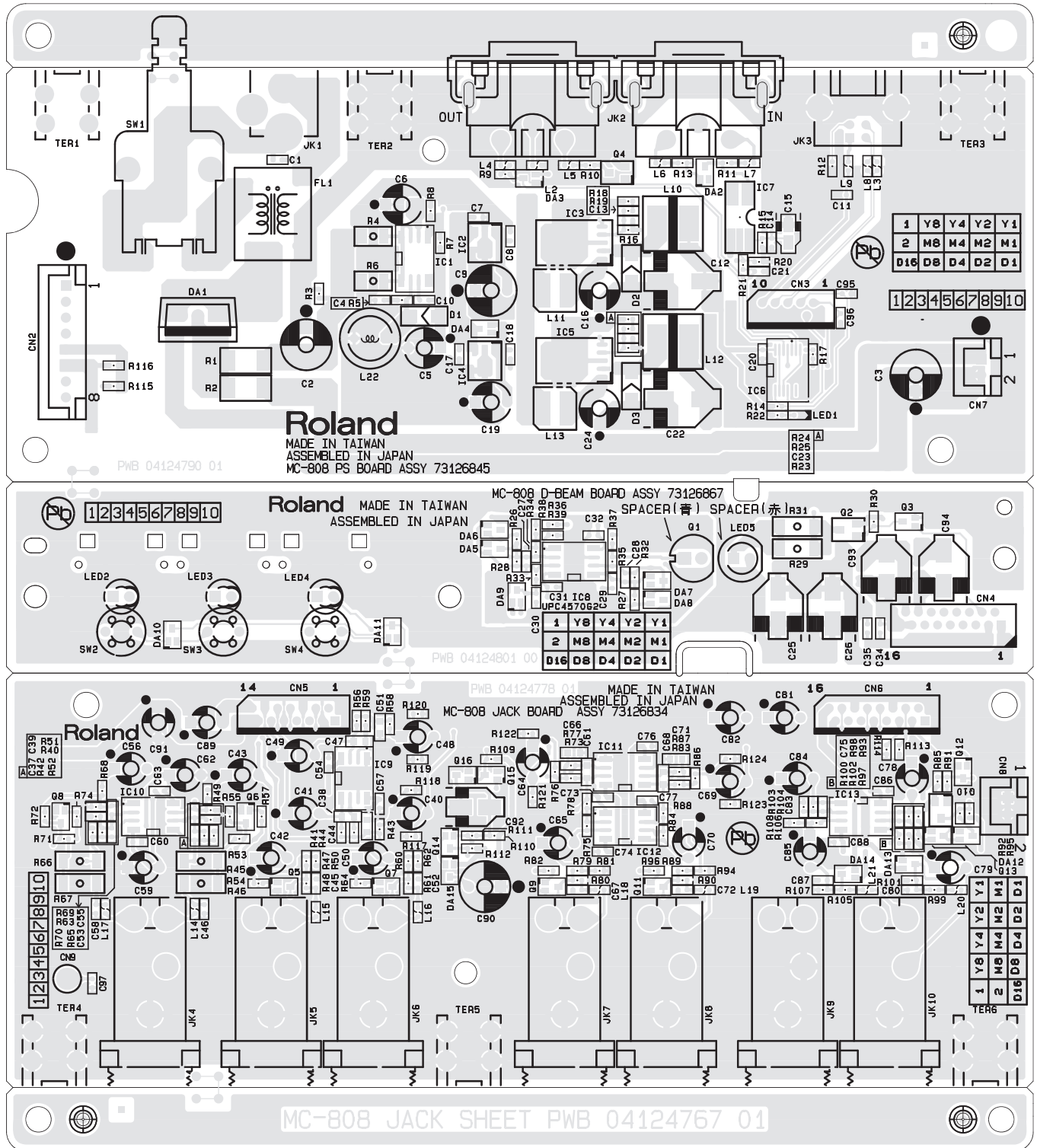
# CIRCUIT DIAGRAM (PANEL 3/3)





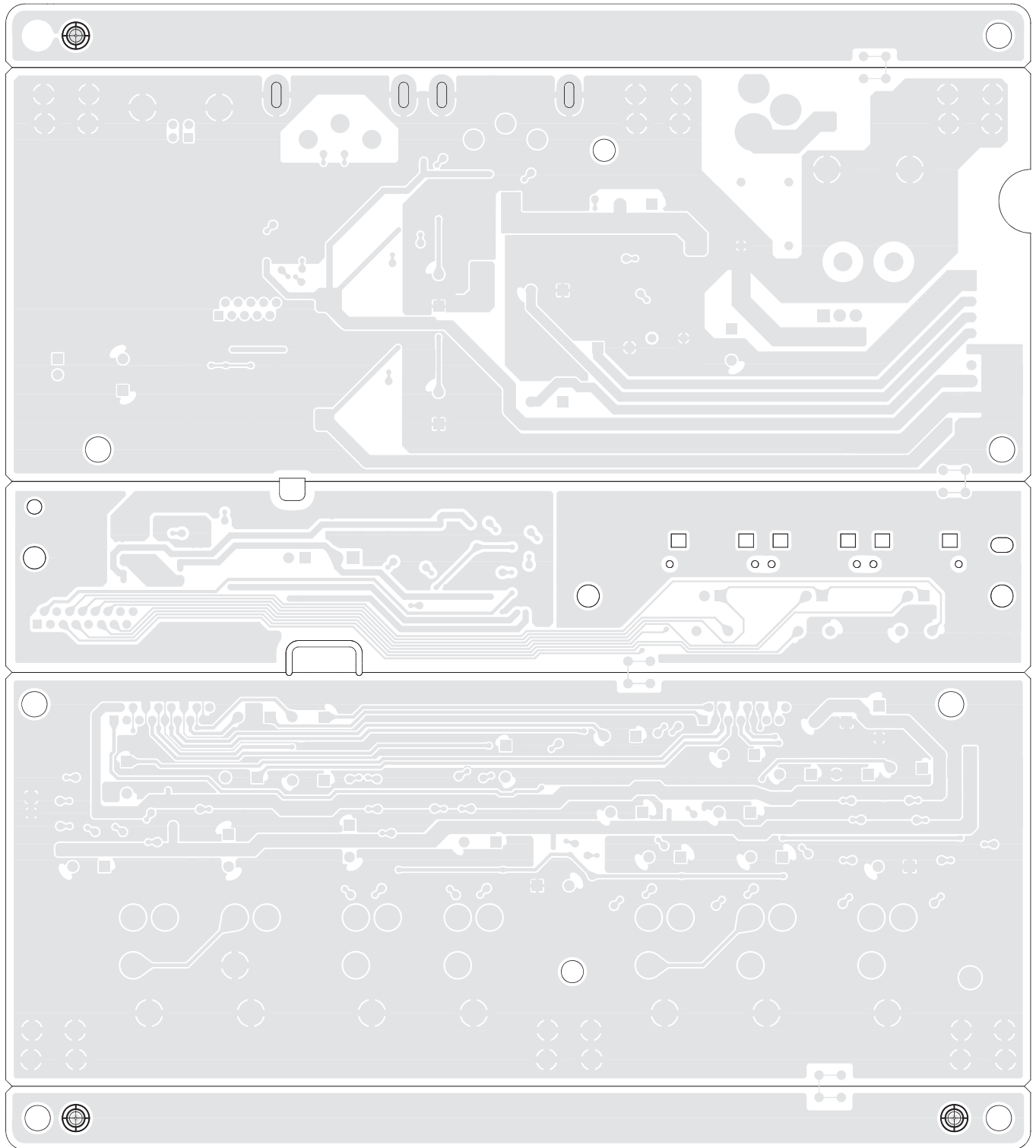


# CIRCUIT BOARD (JACK)



View from components side

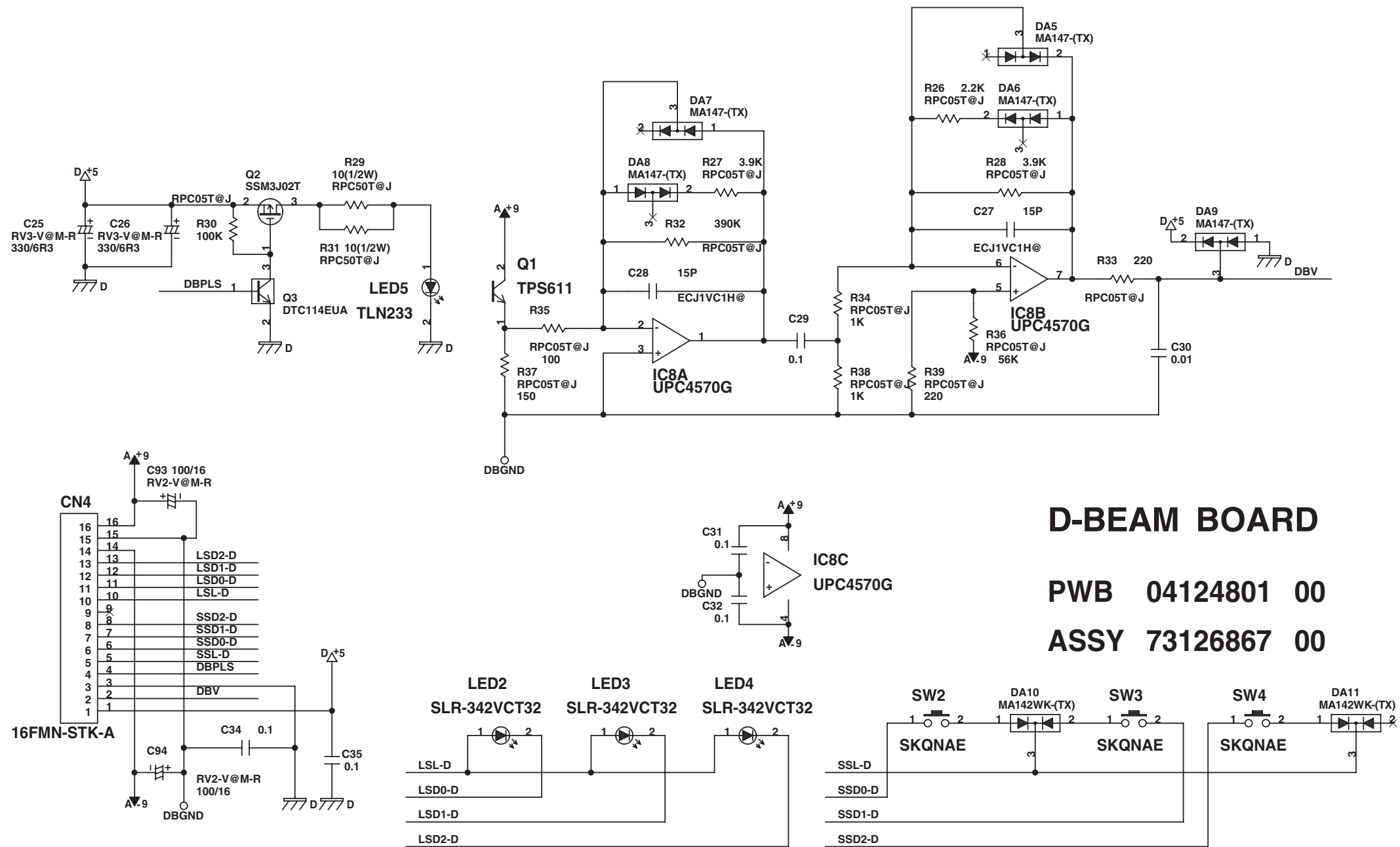
# CIRCUIT BOARD (JACK)



View from foil side



CIRCUIT DIAGRAM (D-BEAM 1/1)



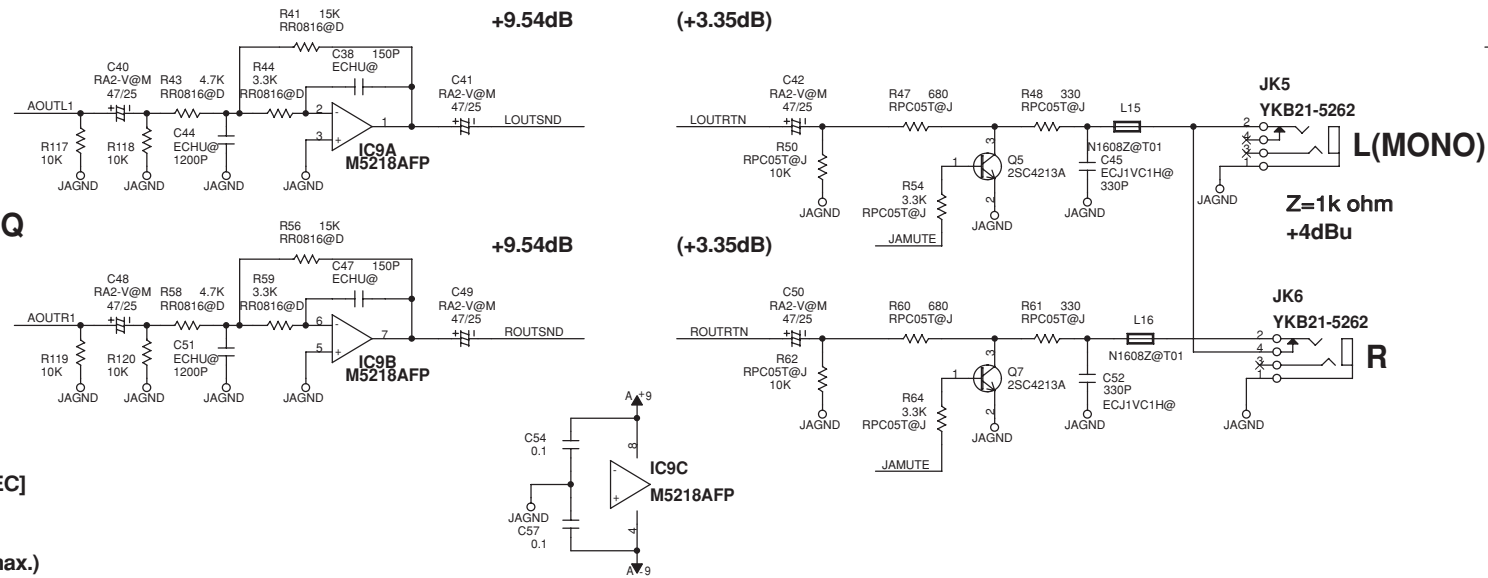
D-BEAM BOARD

PWB 04124801 00

ASSY 73126867 00

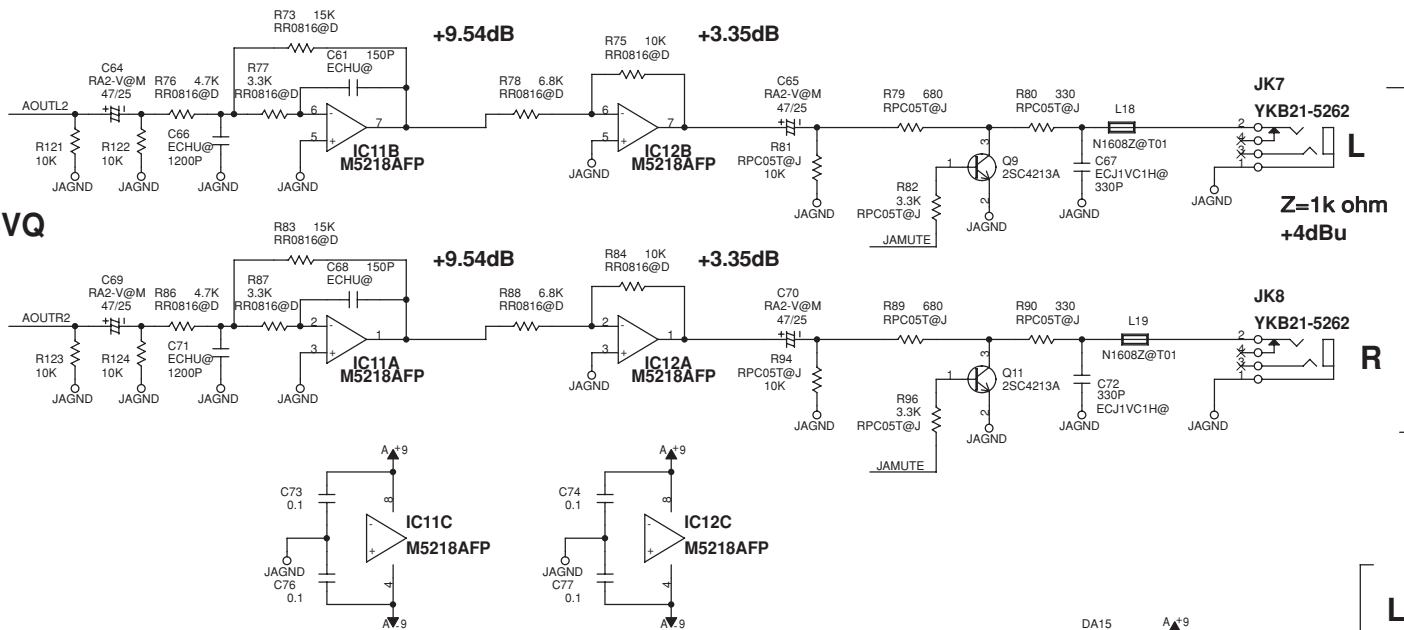
# CIRCUIT DIAGRAM (JACK 1/1)

MIX Out  
from AK4526VQ



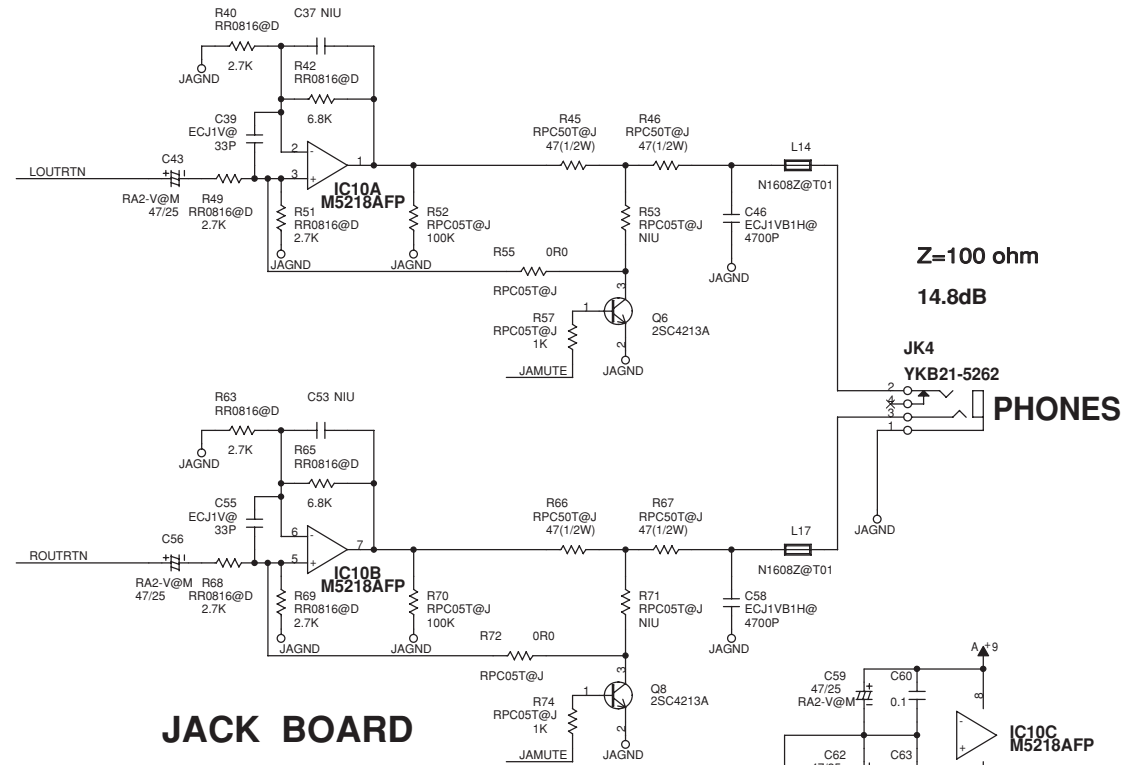
FullScale=0dB[CODEC]  
=3.0Vp-p  
=1.06Vrms  
=2.7dBu(max.)

DIRECT Out  
from AK4526VQ



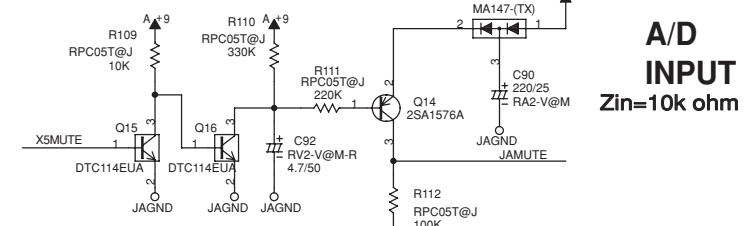
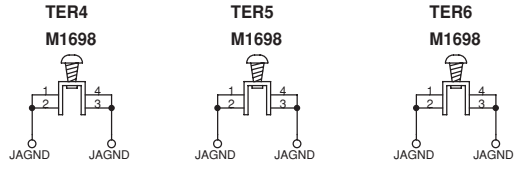
MIX

DIRECT



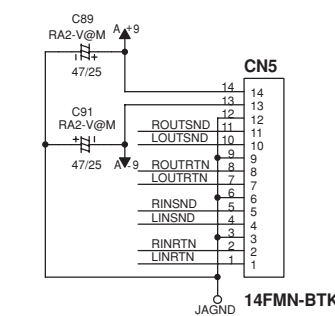
JACK BOARD

PWB 04124778 (01)  
ASSY 73126834 (01)

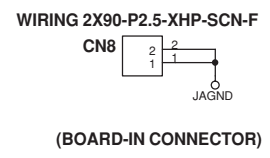


MUTE CONTROL

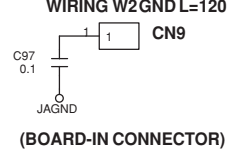
0dBu=0.775V



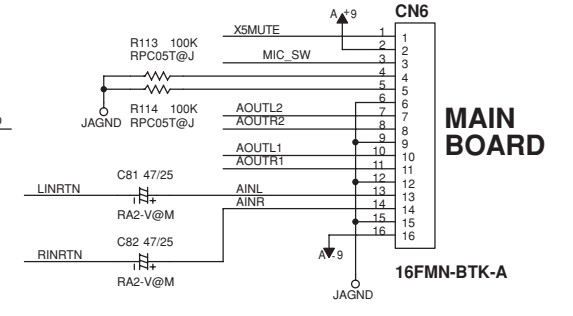
To  
PANEL BOARD  
(Volume Send/Return)



WIRING 2X90-P2.5-XHP-SCN-F  
(BOARD-IN CONNECTOR)



WIRING W2GND L=120  
(BOARD-IN CONNECTOR)



MAIN BOARD

## Error messages

If an incorrect operation is performed, or if processing could not be performed as you specified, an error message will appear. Refer to the explanation for the error message that appears, and take the appropriate action.

\* **Note: Page numbers in round brackets indicate the Owner's Manual's.**

Message	Meaning	Cause/Action
Beat Differs!	While using the Pattern Edit operation Copy (p. 71), the copy could not be executed since the copy-source and copy-destination patterns have differing time signatures.	You must copy between patterns that have the same time signature.
Cannot Assign Phrase!	Since there are two or more unmuted parts, the phrase cannot be registered in an RPS set.	Choose one part of the phrase that you want to register, and mute all of the remaining parts (p. 45).
Cannot Assign Sample!	Since there are no empty parts, you can't assign a sample.	Sample into a pattern that contains an empty part, or use an editing operation (Erase) to create an empty part.
Cannot Extract!	When executing the Pattern Edit command Extract a Rhythm Instrument (EXTRACT RHY) (p. 77), the move-source part contained no data of the note number you specified by Extract Note.	Specify a note number for which data exists in the move-source part.
Cannot Solo Sample on the Song	You can't perform solo sampling or solo with effect sampling in Song mode.	
Card Not Ready! Data Protected!	A CompactFlash card is not inserted in the slot. The group in which you're attempting to save the data is protected.	Insert a CompactFlash card into the slot. You can't save patches or rhythms in a protected bank. Either change the save-destination bank, or alter the System settings to switch off the protect setting for that bank (p. 126). Turn off the power, and reinsert it correctly (p. 140).
DIMM Error Empty Pattern!	The DIMM is not inserted correctly. The pattern cannot be played since it contains no performance data.	Select a pattern that contains data.
Empty Sample! Empty Song!	The sample contains no data. The song has not been recorded, and therefore cannot be played.	Select a sample that contains data. Select a song that contains data.
Illegal File! Memory Damaged!	The MC-808 cannot use this file. The contents of memory may have been damaged.	The MC-808 can use only audio files (WAV/AIFF format). Please perform the Factory Reset operation (p. 25). If this does not resolve the problem, please contact your dealer or the nearest Roland Service Center.
MIDI Offline!	There is a problem with the MIDI cable connection.	Check that the MIDI cable has not been disconnected or broken.
No More Sample Numbers!	The sample cannot be divided any further.  Since fewer than 256 consecutive sample numbers are vacant, no further sampling is possible.	Delete unneeded samples (p. 99) in order to allocate 256 or more consecutive sample numbers.
Now Playing!	Since the MC-808 is playing, this operation cannot be executed.	Stop playback before you execute the operation.
Pattern Full!	Since the maximum number of notes that can be recorded in one pattern has been exceeded, no further pattern recording is possible.	Erase unneeded data from the pattern you are recording (p. 81).
Permission Denied! Recording Overflow!	The file is protected. Too much recording data was received all at once and could not be processed correctly.	- Reduce the amount of data that's being recorded.
Sample Memory Full!	Since there is insufficient sample memory, no further sampling or sample editing is possible.	Erase unneeded samples (p. 99).
Song Recording Full!	Since the maximum number of patterns that can be recorded in one song has been exceeded, no further song recording is possible.	A maximum of 50 patterns can be recorded in one song. No further patterns can be recorded.
Sync Mode: Slave!	If the system parameter "Sync Mode" is set to "SLAVE," you can't perform pattern/song playback (from the MC-808), solo sampling, or solo with effect sampling.	Set "Sync Mode" to "MASTER" or "REMOTE" (p. 119).
Unformatted! User/Card Memory Full!	The CompactFlash card is in an unsupported format. Saving is not possible because there is insufficient space in the user memory or card memory.	Format the CompactFlash card (p. 125). Increase the amount of free memory by initializing patterns (p. 78) or songs (p. 109), or by deleting samples (p. 99).
Wrong Setting!	The pattern edit setting is incorrect.	Make the correct setting.