CASIO®

SERVICE MANUAL
& PARTS LIST (without price)

PX-130

JUL. 2009

PX-130WE

ELECTRONIC KEYBOARD

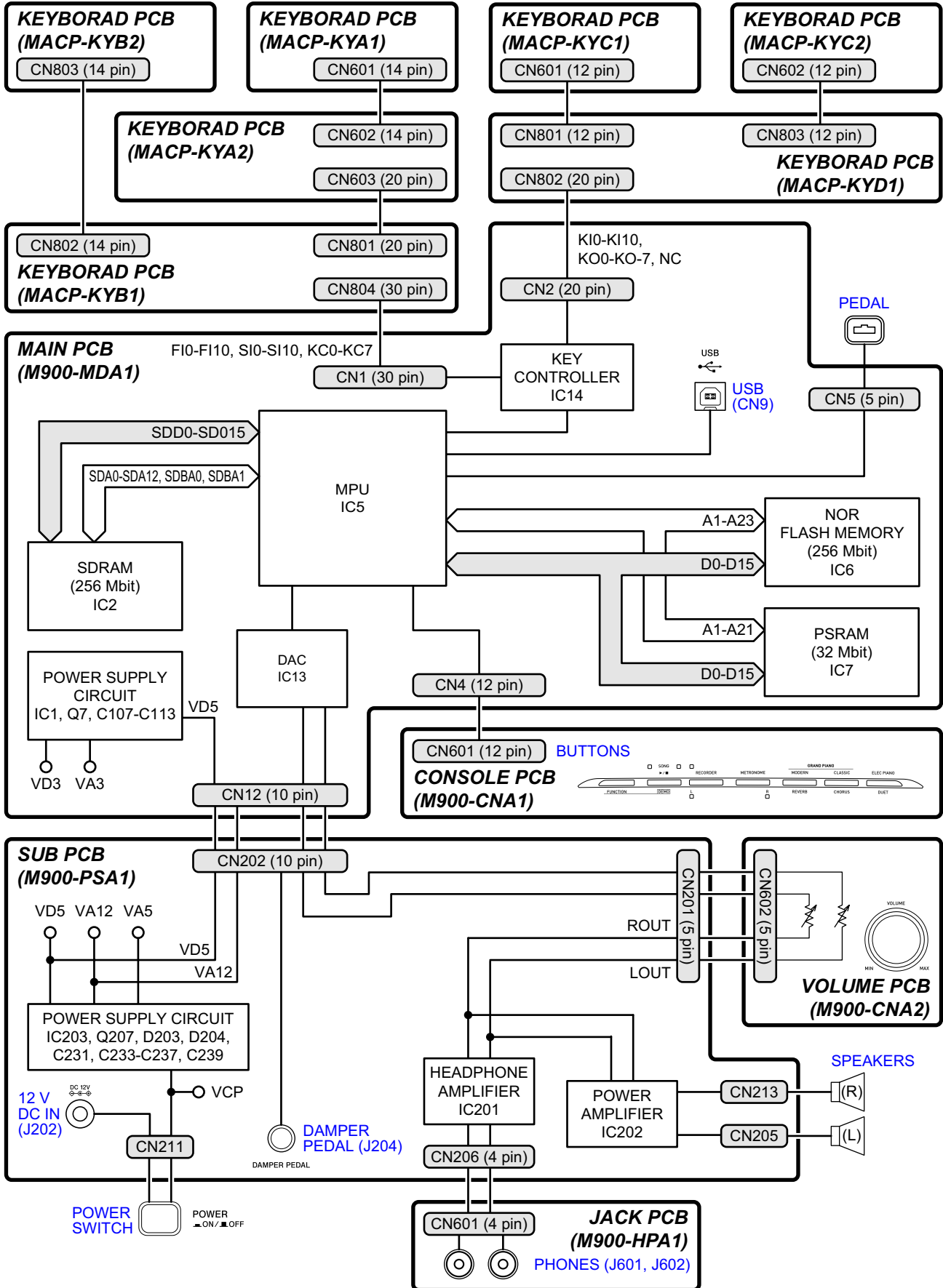# CONTENTS

SPECIFICATIONS

Keyboard	88-key piano keyboard, with Touch Response
Maximum Polyphony	128 notes
Tones	16
	Layer (excluding bass tones)
	Split (Low-range bass tones only)
Effects	Brilliance (–3 to 0 to 3), Reverb (4 types), Chorus (4 types), DSP,
	Acoustic Resonance
Metronome	Beats: 0, 2, 3, 4, 5, 6
	Tempo Range: 20 to 255
Duet	Adjustable tone range (−1 to 2 octaves)
Music Library	Number of Songs: 60, User Songs: 1 (memory capacity: up to 65 KB) *
	* Based on 1 KB = 1024 bytes, 1 MB = 1024^2 bytes
	Song volume: Adjustable
	Part On/Off: L, R
Recorder	Functions: Real-time recording, playback
	Number of Song: 1
	Number of Tracks: 2
	Capacity: Approximately 5,000 notes total
	Recorded Data Protection: Built-in flash memory
Pedals	Damper
	(Soft and sostenuto pedal operations enabled by the optional SP-32 Pedal Unit.)
Other Functions	Touch Select: 3 types, Off
	Transpose: 2 octaves (–12 to 0 to 12)
	Tuning: A4 = 440.0 Hz ± 99 cents (variable)
	Temperament
	Octave shift
	Operation lock
MIDI	16-channel multi-timbre receive
Inputs/Outputs	PHONES jacks: Stereo mini jacks × 2
	Output impedance: 3 Ω
	Output Voltage: 1.5 V (RMS) MAX
	Power: 12 V DC
	USB port: TYPE B
	Damper Pedal Jack: Standard jack
	Pedal connector
Speakers	[13 cm × 6 cm (rectangular)] × 2 (Output 8 W + 8 W)
Power Requirements	AC Adaptor: AD-A12150LW
Power Consumption	12 V ⎓ 18 W
Dimensions	132.2 (W) × 28.6 (D) × 13.5 (H) cm (52 $^1/_{16}$ × 11 $^1/_4$ × 5 $^5/_{16}$ inch)
Weight	Approximately 11.2 kg (24.7 lbs)

BLOCK AND WIRING DIAGRAM

KEYBORAD PCB (MACP-KYB2)
CN803 (14 pin)

KEYBORAD PCB (MACP-KYA1)
CN601 (14 pin)

KEYBORAD PCB (MACP-KYC1)
CN601 (12 pin)

KEYBORAD PCB (MACP-KYC2)
CN602 (12 pin)

KEYBORAD PCB (MACP-KYA2)
CN602 (14 pin)
CN603 (20 pin)

CN801 (12 pin)
CN802 (20 pin)

CN803 (12 pin)
KEYBORAD PCB (MACP-KYD1)

CN802 (14 pin)
KEYBORAD PCB (MACP-KYB1)
CN801 (20 pin)
CN804 (30 pin)

KI0-KI10, KO0-KO-7, NC
CN2 (20 pin)

PEDAL

MAIN PCB (M900-MDA1)
FI0-FI10, SI0-SI10, KC0-KC7
CN1 (30 pin)

KEY CONTROLLER IC14

USB
USB (CN9)

CN5 (5 pin)

SDD0-SD015

SDA0-SDA12, SDBA0, SDBA1

MPU IC5

A1-A23
NOR FLASH MEMORY (256 Mbit) IC6

D0-D15

SDRAM (256 Mbit) IC2

A1-A21
PSRAM (32 Mbit) IC7

D0-D15

POWER SUPPLY CIRCUIT IC1, Q7, C107-C113
VD5

DAC IC13

CN4 (12 pin)

VD3   VA3

CN601 (12 pin)   BUTTONS
CONSOLE PCB (M900-CNA1)

SONG ▶/■ RECORDER METRONOME GRAND PIANO MODERN CLASSIC ELEC PIANO
FUNCTION DEMO L R REVERB CHORUS DUET

CN12 (10 pin)

SUB PCB (M900-PSA1)
CN202 (10 pin)

CN201 (5 pin)
CN602 (5 pin)

VD5 VA12 VA5

VD5
VA12

ROUT

LOUT

VOLUME PCB (M900-CNA2)

VOLUME
MIN   MAX

POWER SUPPLY CIRCUIT IC203, Q207, D203, D204, C231, C233-C237, C239

SPEAKERS

12 V DC IN (J202)
DC 12V
VCP

DAMPER PEDAL (J204)
DAMPER PEDAL

HEADPHONE AMPLIFIER IC201

POWER AMPLIFIER IC202

CN213 (R)

CN205 (L)

CN211

CN206 (4 pin)

POWER SWITCH
POWER ON/OFF

CN601 (4 pin)   **JACK PCB (M900-HPA1)**
PHONES (J601, J602)

PCB LAYOUT

PCBs		Components
Main PCB	M900-MDA1	MPU, Reset IC, SDRAM (256 Mbit), Flash Memory (256 Mbit), PSRAM (32 Mbit), Power Supply Circuit, Key Controller, USB Port
Sub PCB	M900-PSA1	DC 12 V Terminal, Power Supply Circuit, Filter, Power Amplifier, Damper Pedal Jack
Console PCBs	M900-CNA1	Buttons
Volume PCB	M900-CNA2	Main Volume
Jack PCB	M900-HPA1	Phones Jacks
Keyboard PCBs	MACP-KYA1	Keyboard
	MACP-KYA2	
	MACP-KYB1	
	MACP-KYB2	
	MACP-KYC1	
	MACP-KYC2	
	MACP-KYD1	

CIRCUIT DESCRIPTION

KEY MATRIX

	KC0	KC1	KC2	KC3	KC4	KC5	KC6	KC7
FI0	A0①	A0#①	B0①	C1①	C1#①	D1①	D1#①	E1①
SI0	A0②	A0#②	B0②	C1②	C1#②	D1②	D1#②	E1②
FI1	F1①	F1#①	G1①	G1#①	A1①	A1#①	B1①	C2①
SI1	F1②	F1#②	G1②	G1#②	A1②	A1#②	B1②	C2②
FI2	C2#①	D2①	D2#①	E2①	F2①	F2#①	G2①	G2#①
SI2	C2#②	D2②	D2#②	E2②	F2②	F2#②	G2②	G2#②
FI3	A2①	A2#①	B2①	C3①	C3#①	D3①	D3#①	E3①
SI3	A2②	A2#②	B2②	C3②	C3#②	D3②	D3#②	E3②
FI4	F3①	F3#①	G3①	G3#①	A3①	A3#①	B3①	C4①
SI4	F3②	F3#②	G3②	G3#②	A3②	A3#②	B3②	C4②
FI5	C4#①	D4①	D4#①	E4①	F4①	F4#①	G4①	G4#①
SI5	C4#②	D4②	D4#②	E4②	F4②	F4#②	G4②	G4#②
FI6	A4①	A4#①	B4①	C5①	C5#①	D5①	D5#①	E5①
SI6	A4②	A4#②	B4②	C5②	C5#②	D5②	D5#②	E5②
FI7	F5①	F5#①	G5①	G5#①	A5①	A5#①	B5①	C6①
SI7	F5②	F5#②	G5②	G5#②	A5②	A5#②	B5②	C6②
FI8	C6#①	D6①	D6#①	E6①	F6①	F6#①	G6①	G6#①
SI8	C6#②	D6②	D6#②	E6②	F6②	F6#②	G6②	G6#②
FI9	A6①	A6#①	B6①	C7①	C7#①	D7①	D7#①	E7①
SI9	A6②	A6#②	B6②	C7②	C7#②	D7②	D7#②	E7②
FI10	F7①	F7#①	G7①	G7#①	A7①	A7#①	B7①	C8①
SI10	F7②	F7#②	G7②	G7#②	A7②	A7#②	B7②	C8②

	KO0	KO1	KO2	KO3	KO4	KO5	KO6	KO7
KI0	A0③	A0#③	B0③	C1③	C1#③	D1③	D1#③	E1③
KI1	F1③	F1#③	G1③	G1#③	A1③	A1#③	B1③	C2③
KI2	C2#③	D2③	D2#③	E2③	F2③	F2#③	G2③	G2#③
KI3	A2③	A2#③	B2③	C3③	C3#③	D3③	D3#③	E3③
KI4	F3③	F3#③	G3③	G3#③	A3③	A3#③	B3③	C4③
KI5	C4#③	D4③	D4#③	E4③	F4③	F4#③	G4③	G4#③
KI6	A4③	A4#③	B4③	C5③	C5#③	D5③	D5#③	E5③
KI7	F5③	F5#③	G5③	G5#③	A5③	A5#③	B5③	C6③
KI8	C6#③	D6③	D6#③	E6③	F6③	F6#③	G6③	G6#③
KI9	A6③	A6#③	B6③	C7③	C7#③	D7③	D7#③	E7③
KI10	F7③	F7#③	G7③	G7#③	A7③	A7#③	B7③	C8③

NOMENCLATURE OF KEYS

A#0 C#1 D#1 F#1 G#1 A#1 C#2 D#2 F#2 G#2 A#2 C#3 D#3 F#3 G#3 A#3 C#4 D#4 F#4 G#4 A#4 C#5 D#5 F#5 G#5 A#5 C#6 D#6 F#6 G#6 A#6 C#7 D#7 F#7 G#7 A#7

A0 B0 C1 D1 E1 F1 G1 A1 B1 C2 D2 E2 F2 G2 A2 B2 C3 D3 E3 F3 G3 A3 B3 C4 D4 E4 F4 G4 A4 B4 C5 D5 E5 F5 G5 A5 B5 C6 D6 E6 F6 G6 A6 B6 C7 D7 E7 F7 G7 A7 B7 C8
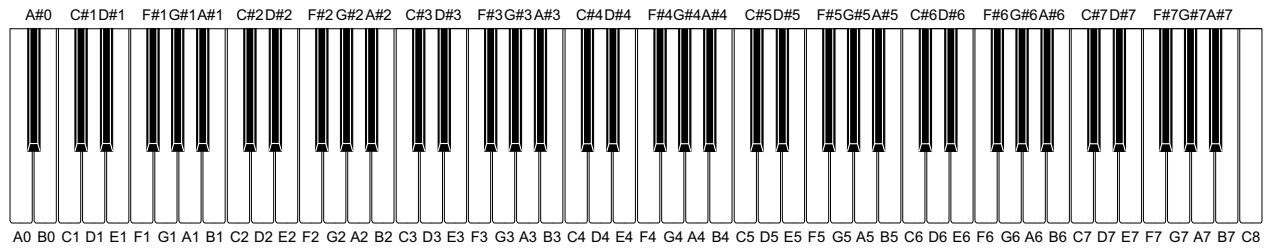
BUTTON MATRIX

	SO0	SO1	SO2
SI0	FUNCTION	METRONOME (R)	ELEC PIANO, DUET
SI1	—	SONG ▶/■, DEMO	GRAND PIANO (MODERN), REVERB
SI2	—	GRAND PIANO (CLASSIC), CHORUS	RECORDER (L)

PRINTED CIRCUIT BOARDS

Main PCB M900-MDA1

Top View

M900-MDA1 A   No.1
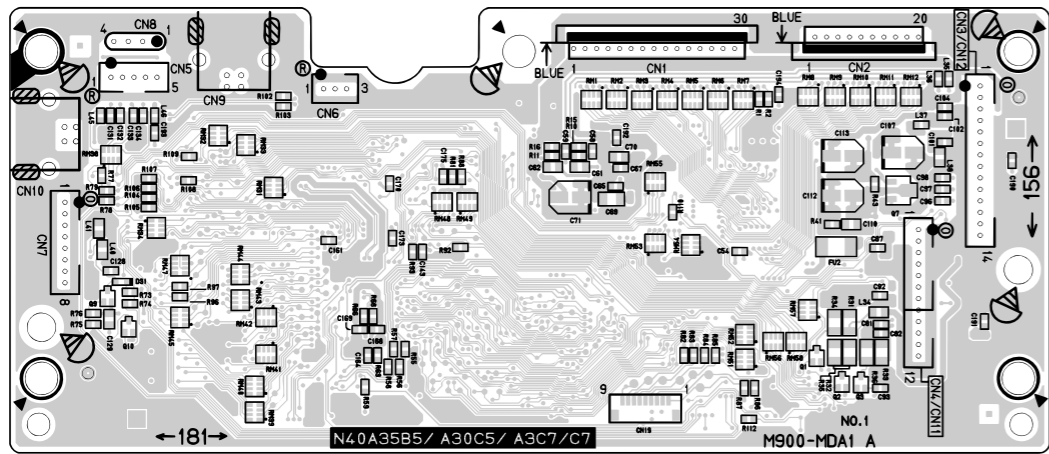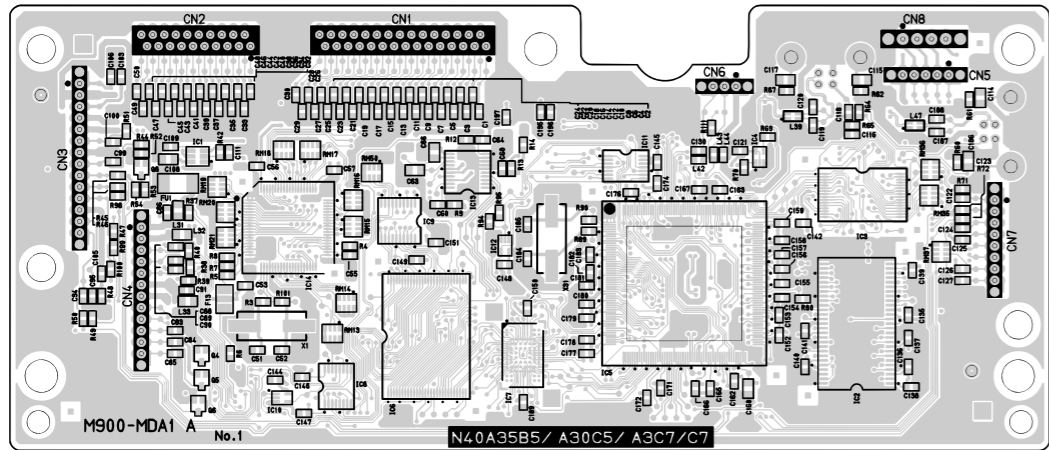
Bottom View

Sub PCB M900-PSA1

M900-PSA1 A

Top View

M900-PSA1 A
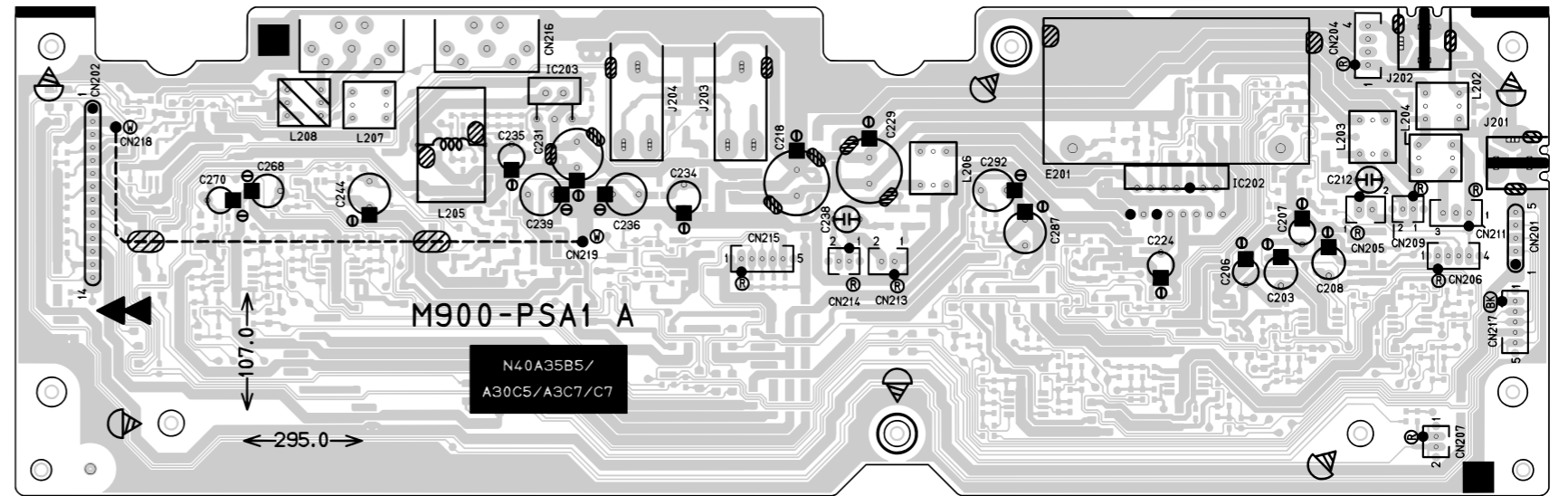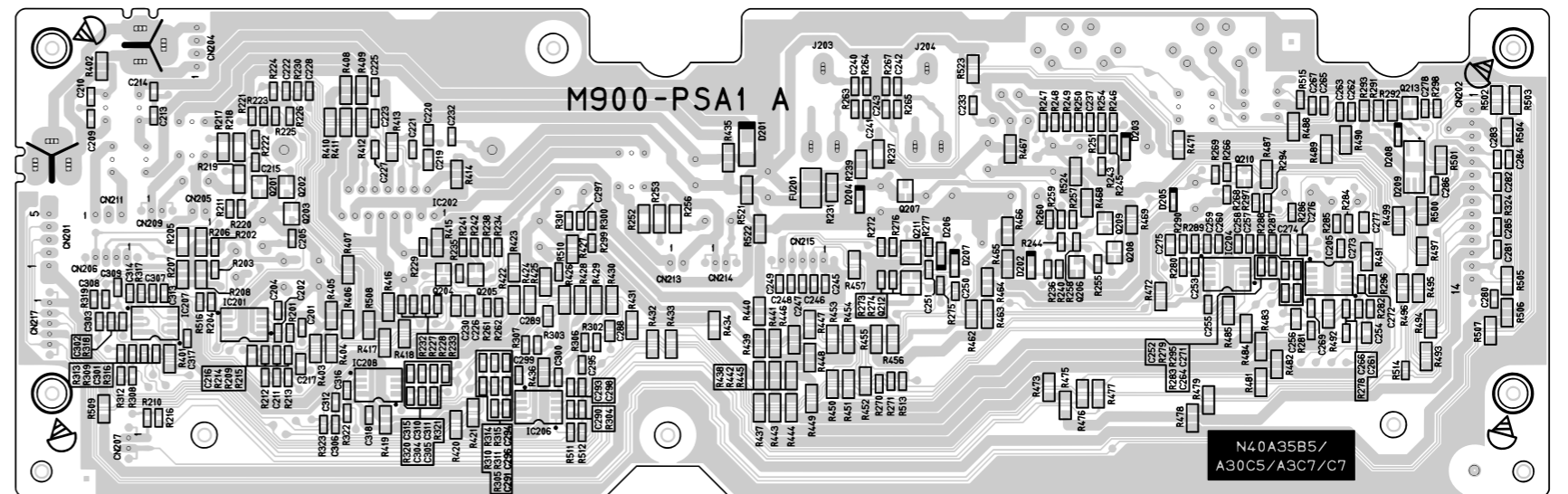
Bottom View

Jack PCB M900-HPA1

NO. 1   M900-HPA1 A

Top View

M900-HPA1 A
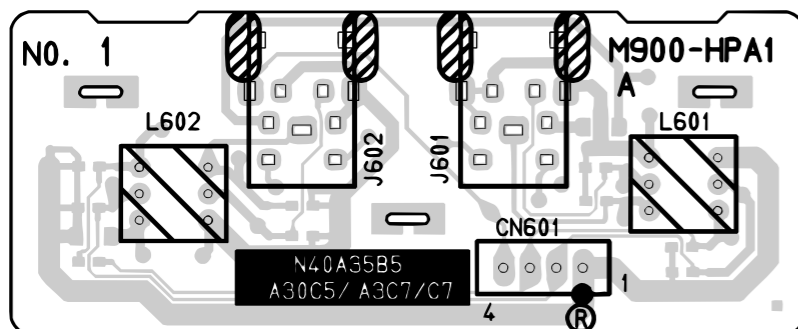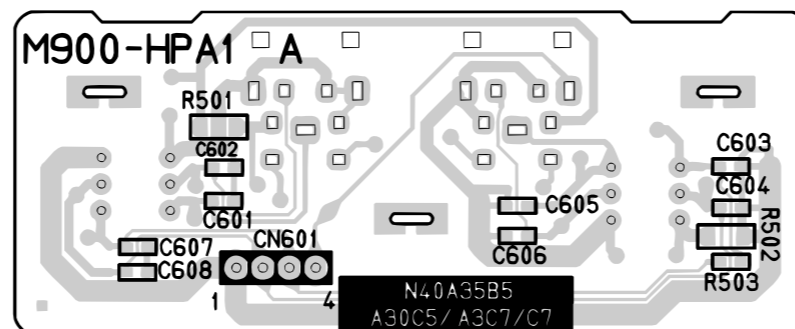
Bottom View

Console PCB M900-CNA1

M900-CNA1 A

N40A35B5
A30C5/A3C7/C7

NO.1

CN601

1 ... 12

◄◄

245.00

162.00

Top View

M900-CNA1 A

N40A35B5
A30C5/A3C7/C7

12 ... 1

CN601

D601 R601 D602 D603 D604 R604
SW601 R602 SW602 R603 SW603
R605 D605 D606 R606 SW605
D607 D610 D608 D611 D609 D612
SW604 SW606 SW607
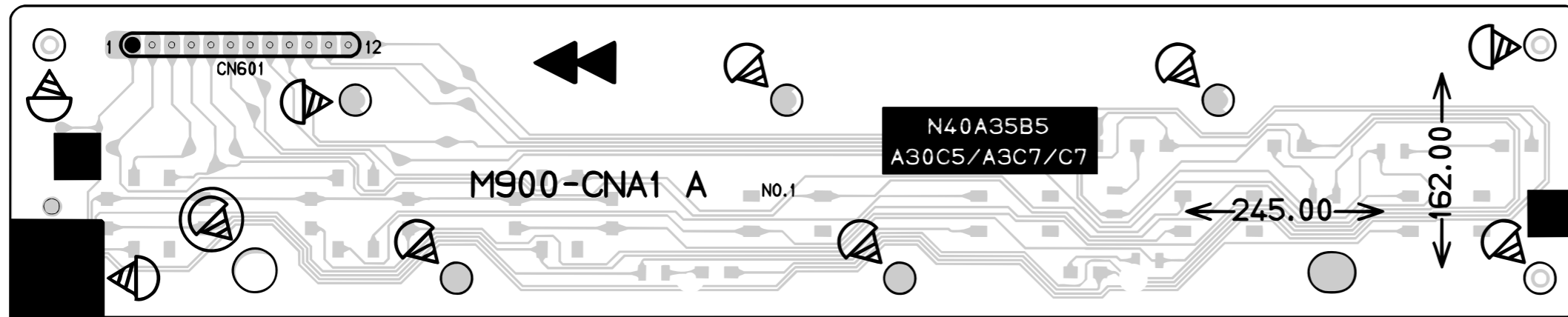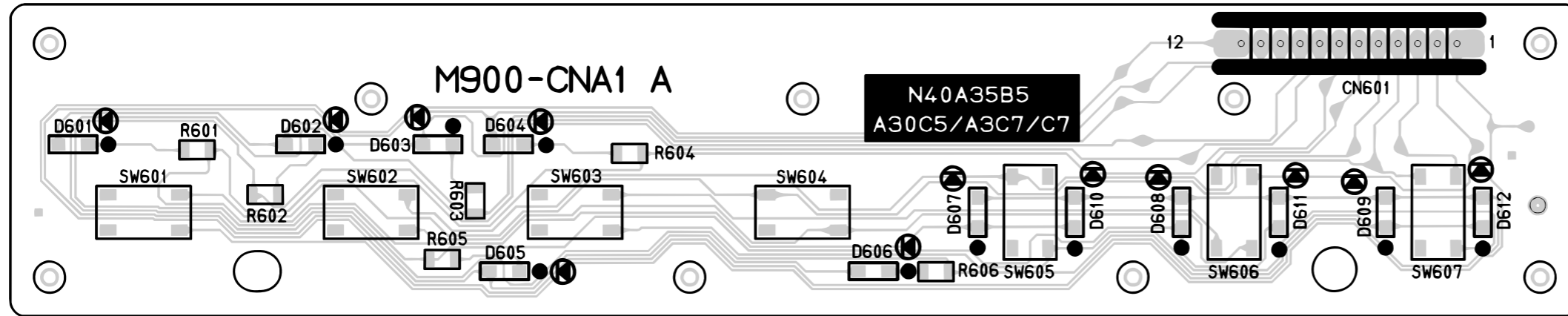
Bottom View

Volume PCB M900-CNA2

5 1 CN602

M900-CNA2 A

N40A35B5
A30C5/A3C7/C7

Top View

1 CN603 5

5

BK

M900-CNA2 A

N40A35B5
A30C5
A30C7/C7

VR601

NO.1

Bottom View

KEYBOARD PCB MACP-KYA1

MACP-KYA1 A

C1

N40A35B5
A30C5/A3C7/C7

C2

® CN601

1 14

Top View

C2 MACP-KYA1 A N40A35B5/A30C5/A3C7/C7 C1

14 CN601 1

D621 D620 D619 D618

D617 D616 D615 D614 D613 D612 D611 D610 D609 D608 D607 D606 D605 D604 D603 D602 D601
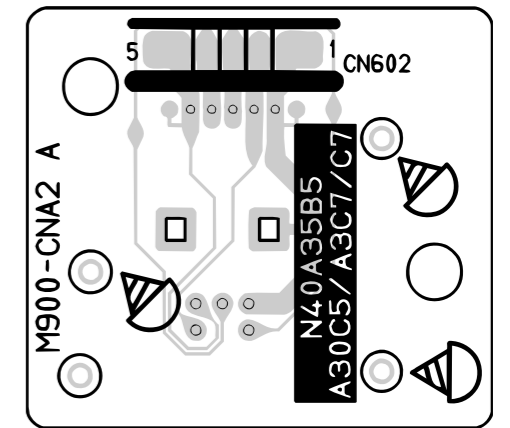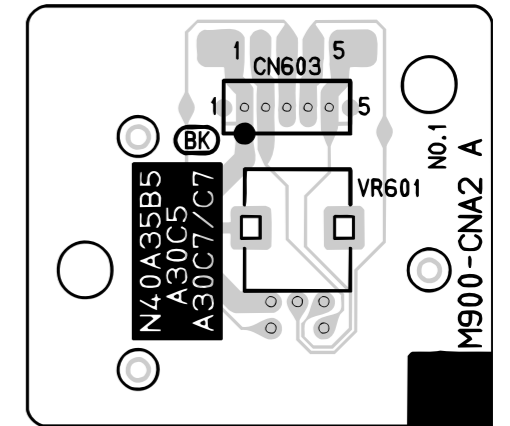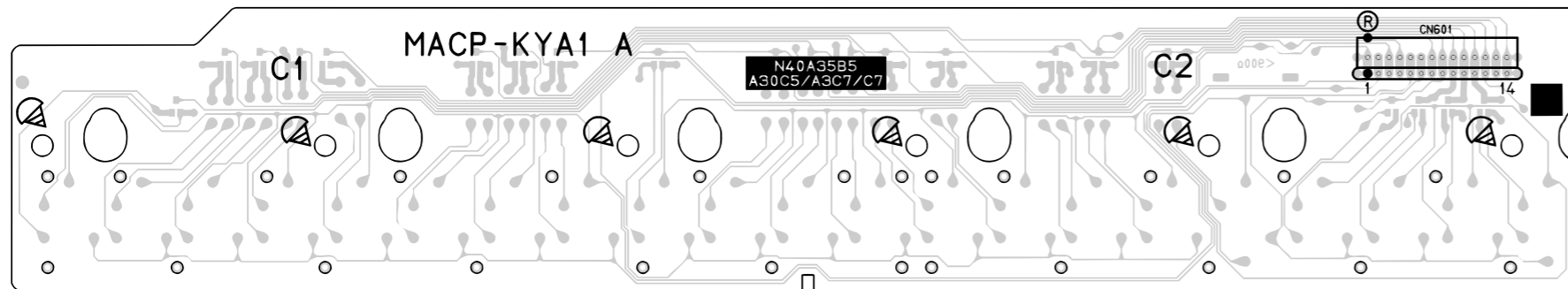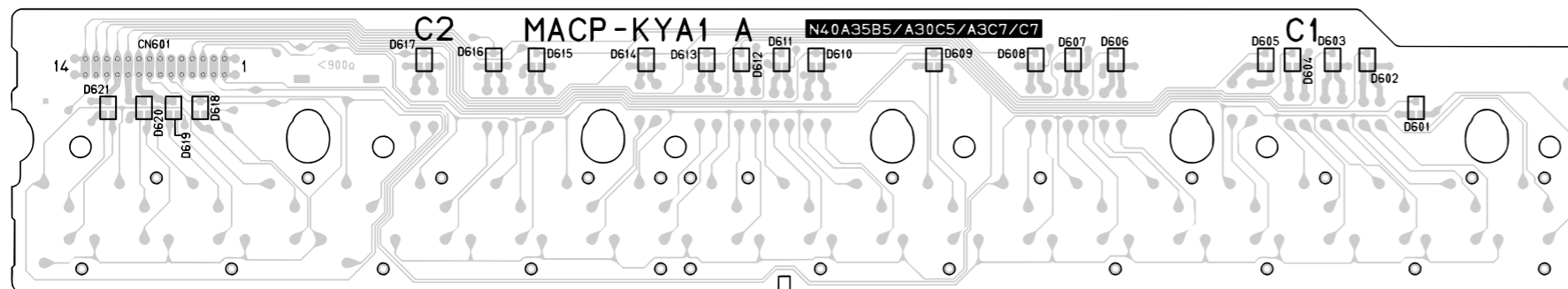
Bottom View

KEYBOARD PCB MACP-KYA2
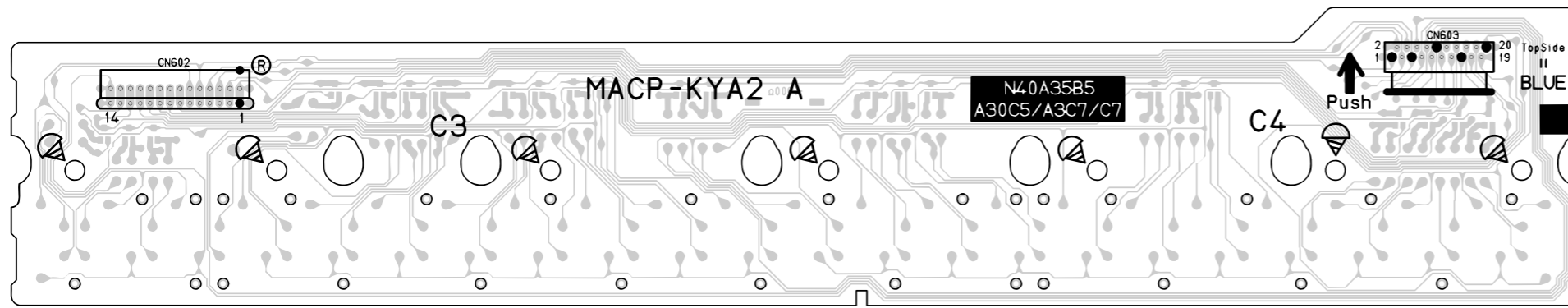
Top View
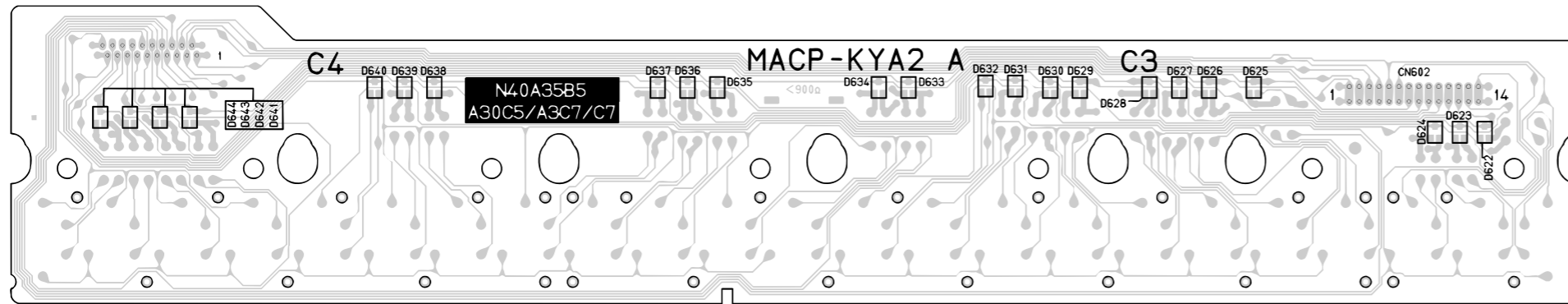
Bottom View

KEYBOARD PCB MACP-KYB1

KEYBOARD PCB MACP-KYB2
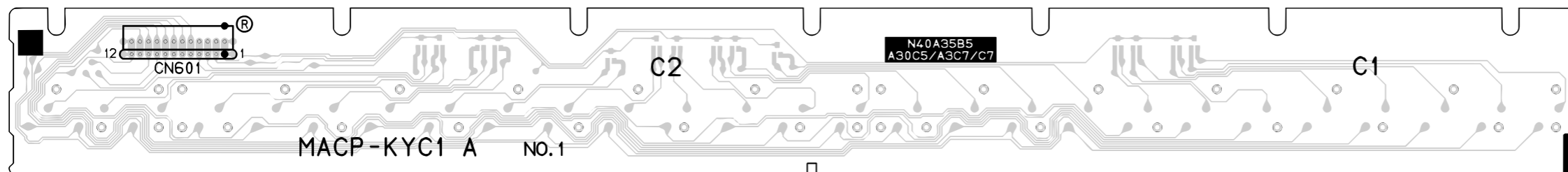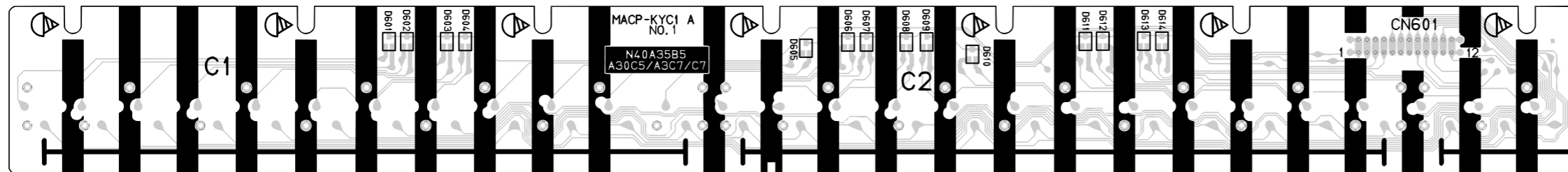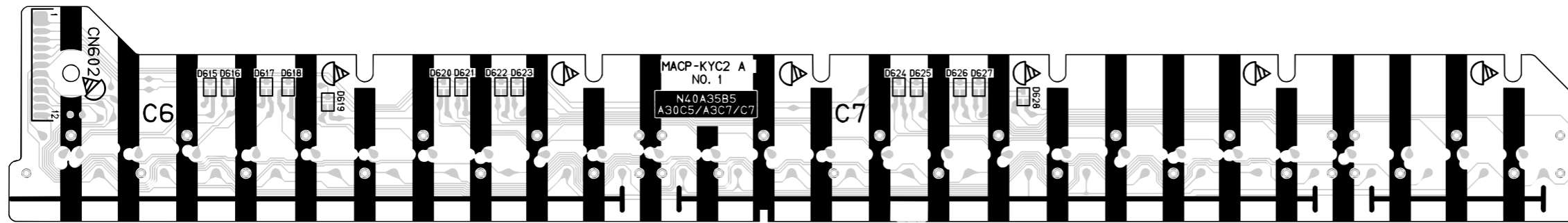
MACP-KYB2 A

C7　　C8

Top View

C8　　MACP-KYB2 A

N40A35B5/
A30C5/A3C7/C7

Bottom View

KEYBOARD PCB MACP-KYC1

MACP-KYC1 A
NO.1

N40A35B5
A30C5/A3C7/C7

C1　　C2

CN601

N40A35B5
A30C5/A3C7/C7

C2　　C1

CN601

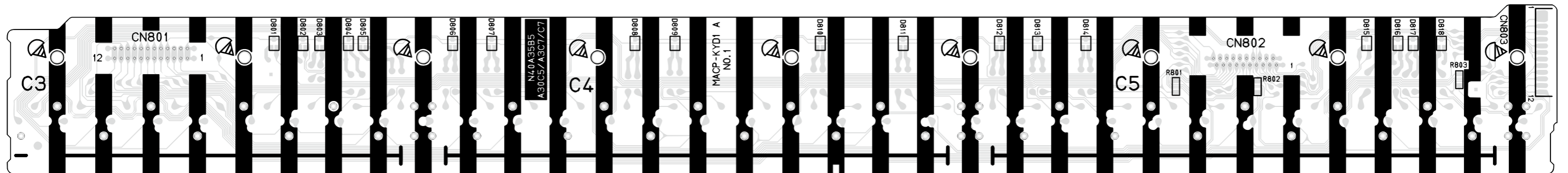MACP-KYC1 A　　NO.1
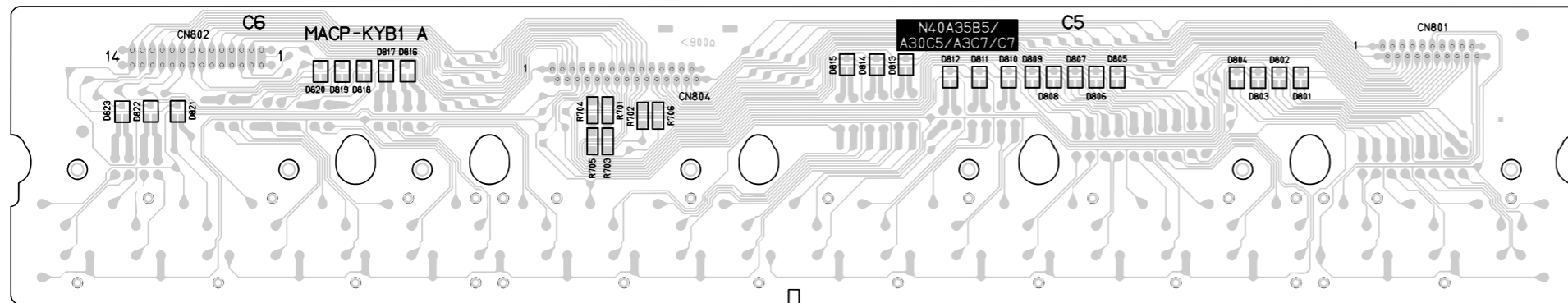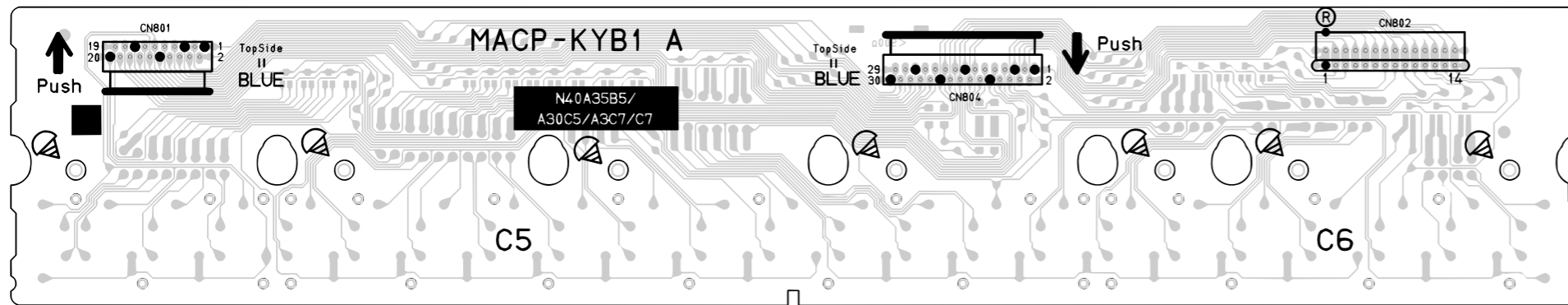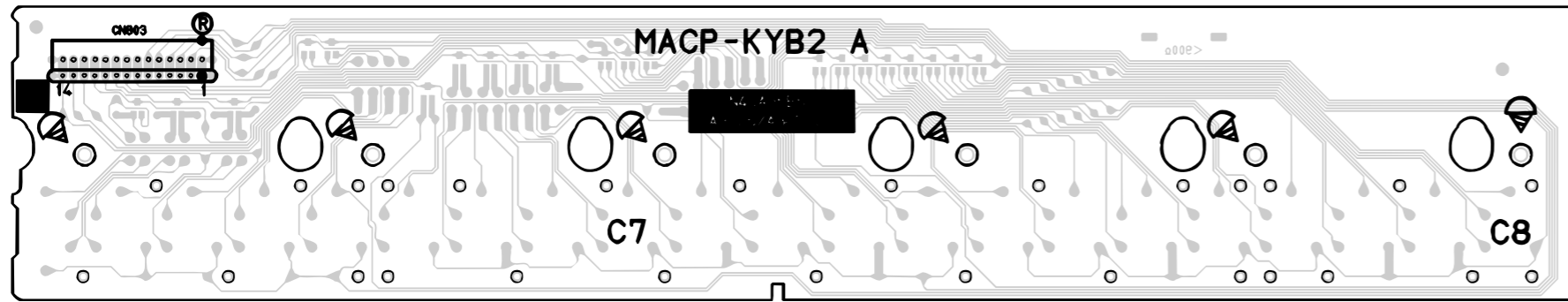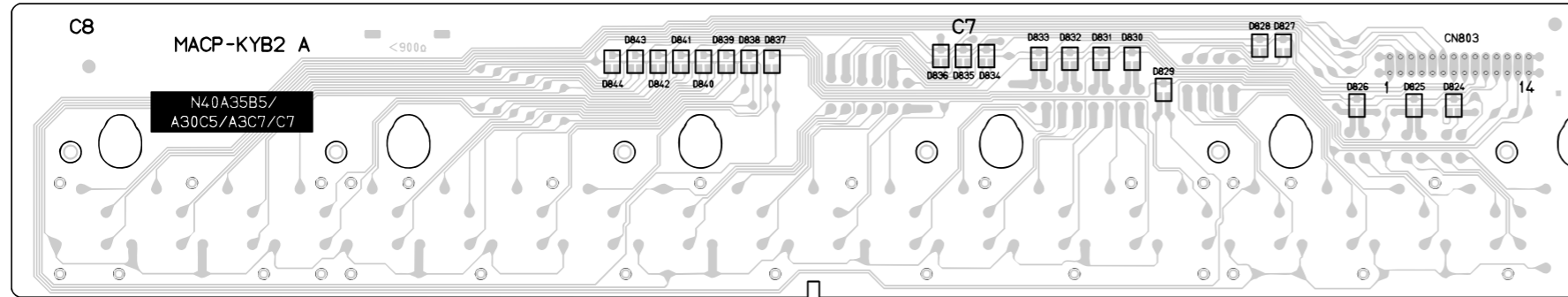
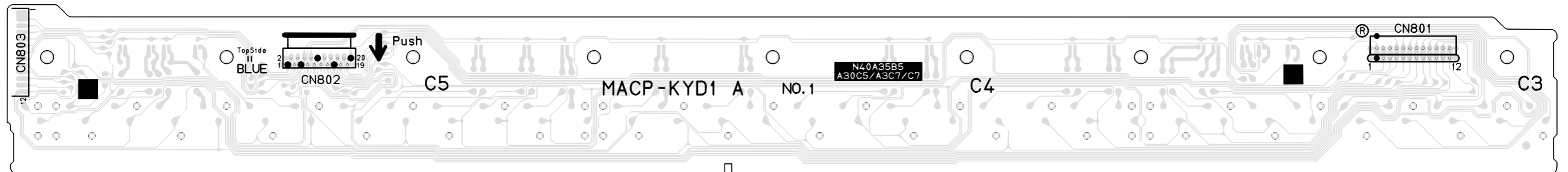**KEYBOARD PCB MACP-KYC2**

Top View
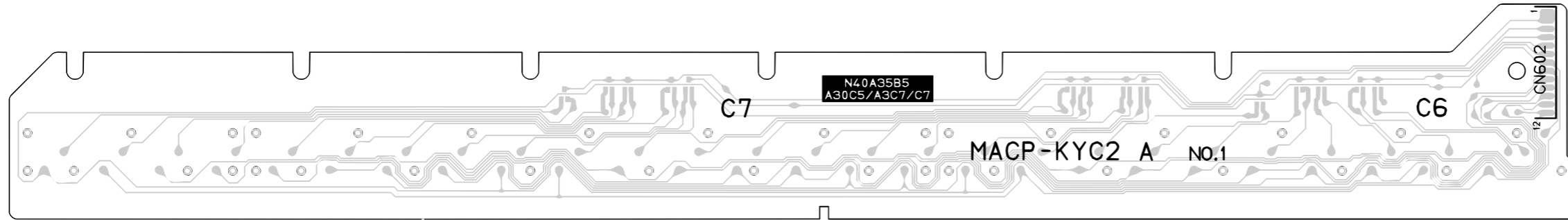
Bottom View

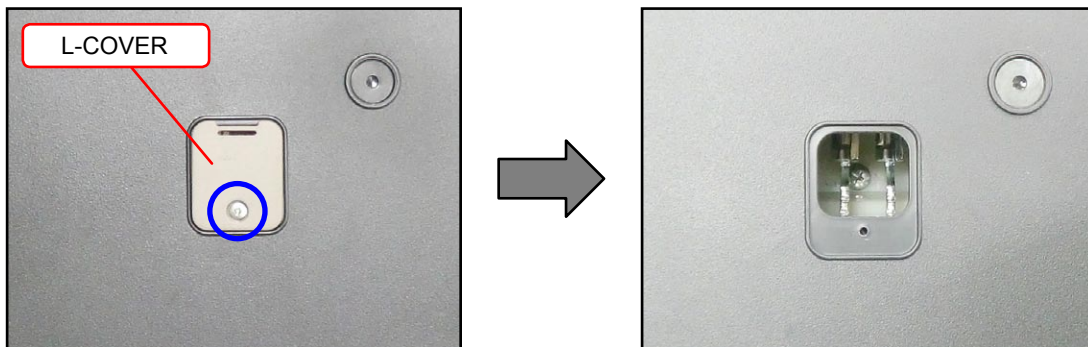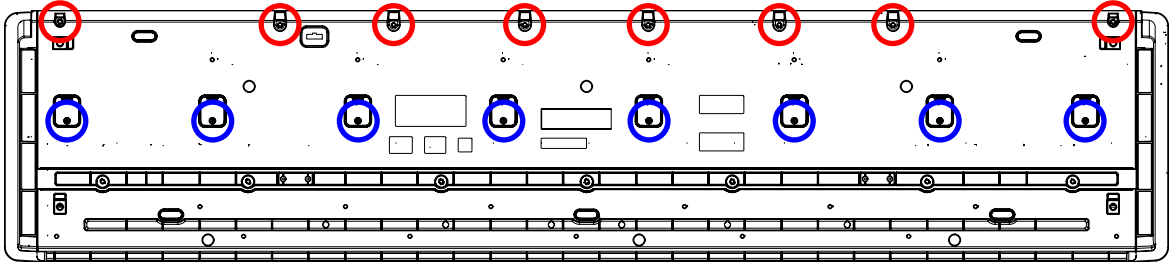**KEYBOARD PCB MACP-KYD1**

Top View

Bottom View

DISASSEMBLY

The photos show a prototype. The appearance of the instrument, such as color, may differ from the actual model.

■ Removing the main panel

1. Remove 16 screws and eight L-COVERs on the bottom surface of the main unit.

L-COVER

2. You will see a screw inside when you remove an L-COVER. Undo and remove the screw through each opening (eight screws in total).
   NOTE: Do not drop the screws inside the main unit.
   NOTE: Do not touch the hammer with the screwdriver while loosening the screws.
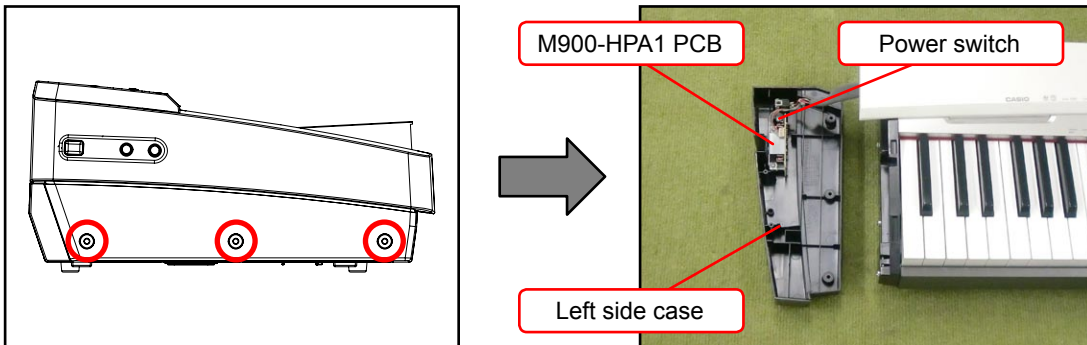
3. Place the main unit with the keys facing up. Undo three screws on the right side case.
4. Remove the right side case.
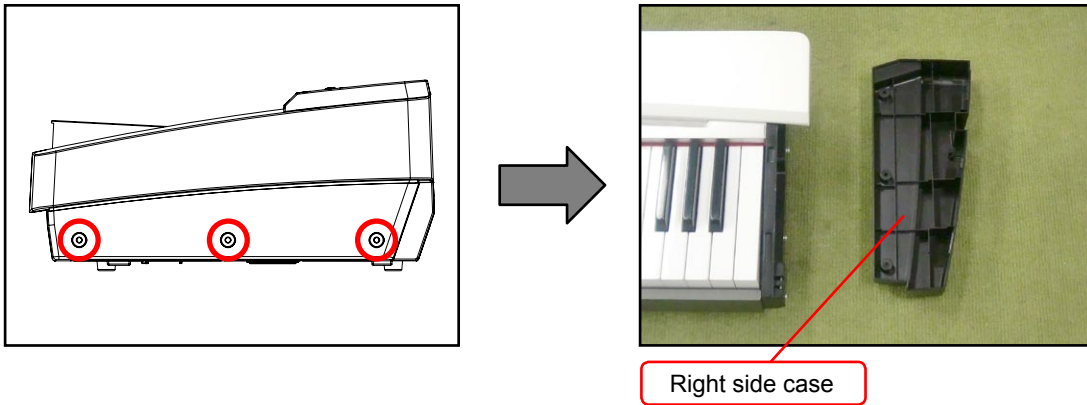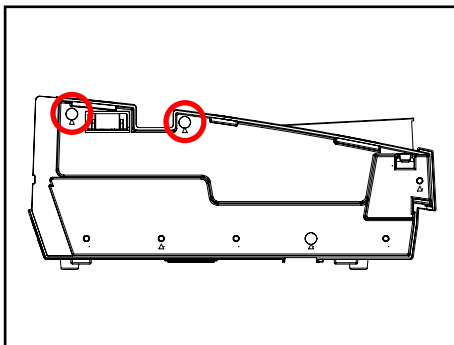

Right side case

5. Undo three screws on the left side case.
6. Remove the left side case.
   NOTE: The power switch and the M900-HPA1 PCB are assembled to the left side case. Do not pull
         the left side case forcibly.

M900-HPA1 PCB   Power switch

Left side case

7. Undo and remove two screws from each side case (S-CASE-IL and S-CASE-IR).

8. Remove the main panel.
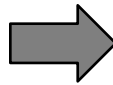
■ Removing the main PCB (M900-MDA1)

1. Release the lock and remove two FFCs.
2. Remove two connectors.
3. Remove the pedal connector connected to the lower case.

FFC (Keyboard)　　　FFC (Keyboard)　　　Pedal connector

Connector (M900-CNA1)　　　Connector (M900-PSA1)
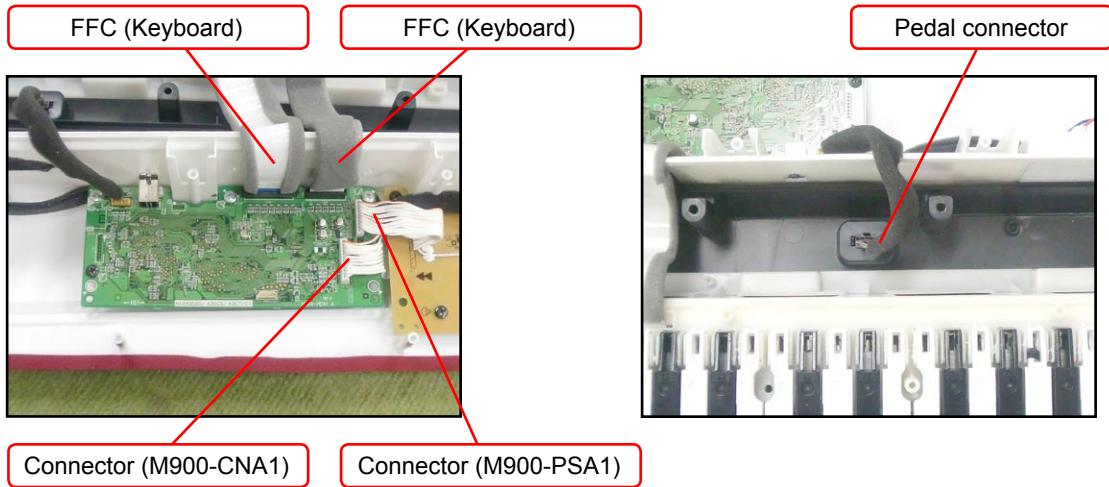
4. Remove the screw below the USB jack on the back of the main unit.
5. Remove five screws and then the main PCB (M900-MDA1).
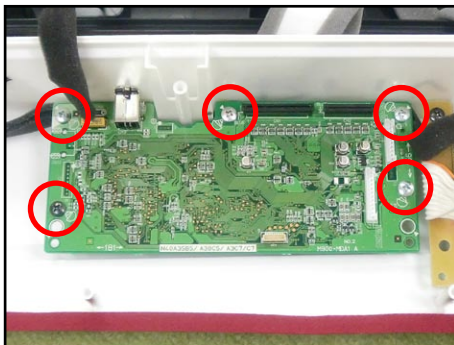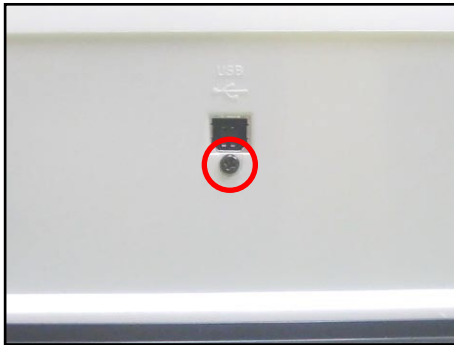
■ Removing the sub PCB (M900-PSA1)

1. Remove four connectors.
2. Unsolder the FFC connected to the M900-CNB2 PCB shown on the top right.

Connector (Left speaker)　　Connector (Power switch)　　FFC (M900-PSA1)
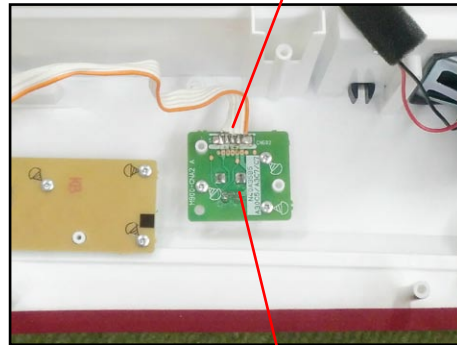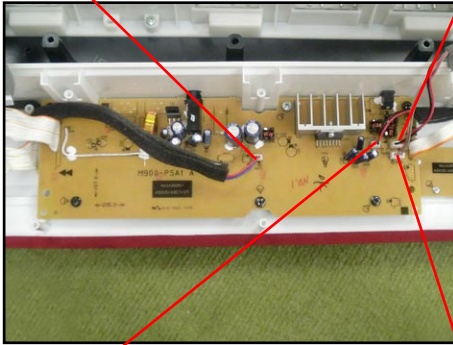
Connector (Right speaker)　　Connector (M900-HPA1)　　M900-CNA2 PCB

3. Remove six screws and then the sub PCB (M900-PSA1).
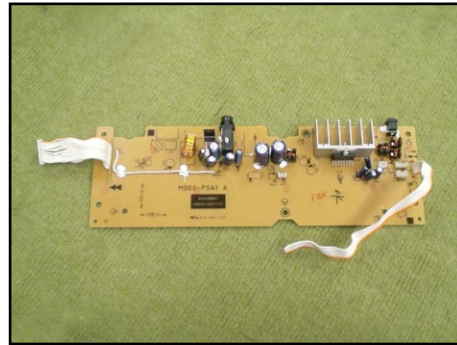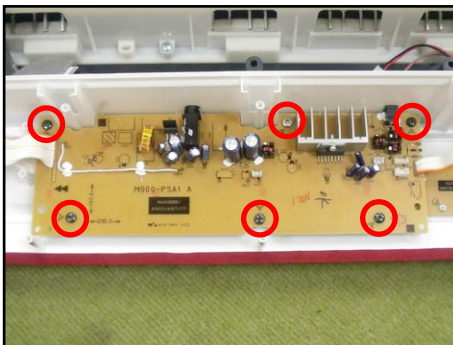
■ Removing the console PCB (M900-CNA1) and the volume PCB (M900-CNA2)

1. Remove 10 screws and then the console PCB (M900-CNA1).
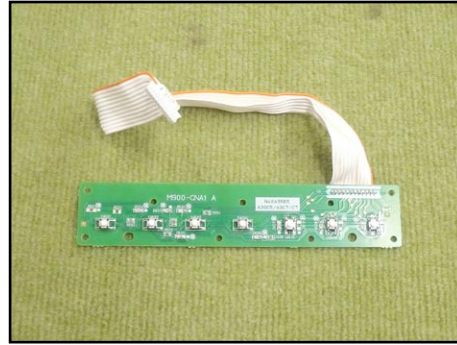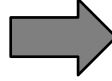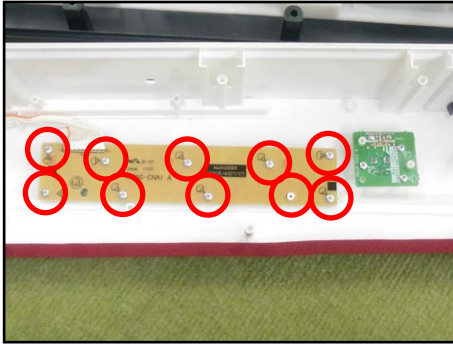
Once the console PCB (M900-CNA1) is removed, you may disengage the button, the LED cover, the LED spacer, and the nonwoven band.

2. Disengage the volume knob on the front of the main panel.

3. Remove three screws and then the volume PCB (M900-CNA2).
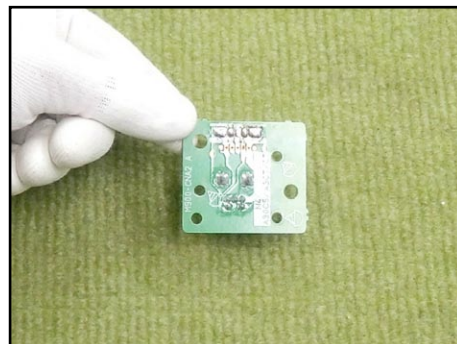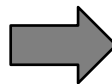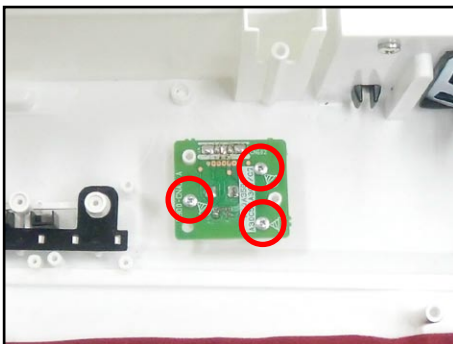
■ Removing the power switch and the jack PCB (M900-HPA1)

1. Remove four screws on the left side case, and disengage the jack PCB (M900-HPA1) and the power switch.

Power switch

M900-HPA1 PCB
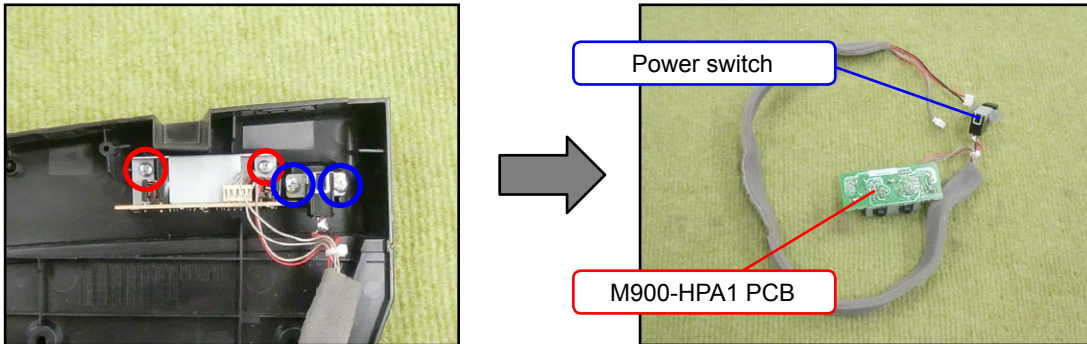
■ Removing the speakers

1. Remove three screws.
2. Remove two hooks and then the speaker cover.

Hooks

Speaker cover
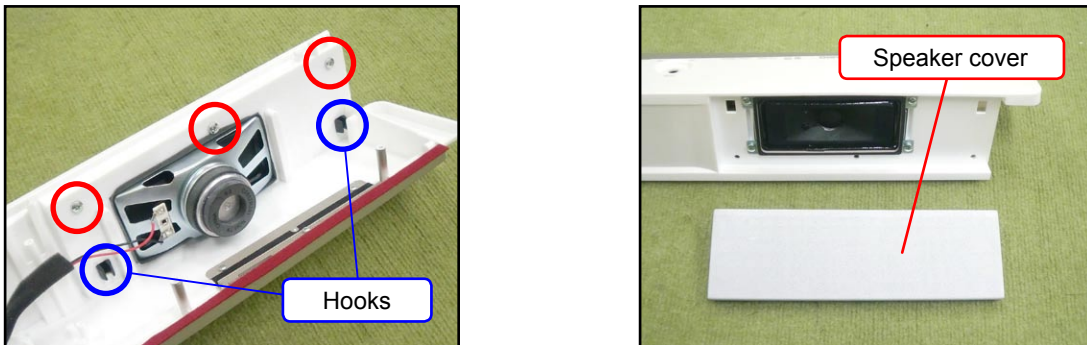
3. Remove four screws and then the speaker.
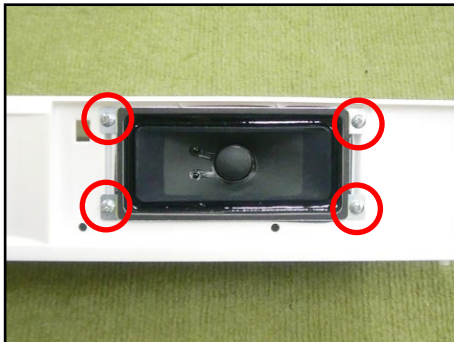
4. Similarly remove the other speaker.

■ Removing the KY-ASSY

1. Remove all three screws from either side case (S-CASE-IL and S-CASE-IR), and then remove both side cases.
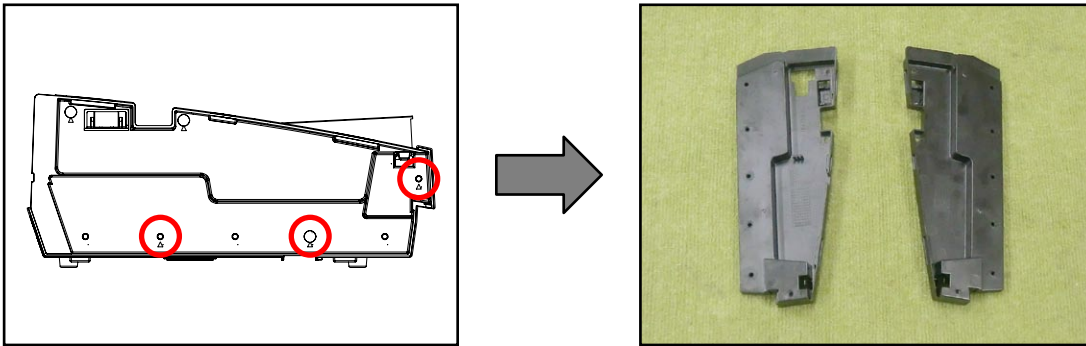
2. Remove 26 screws on the bottom of the main unit.
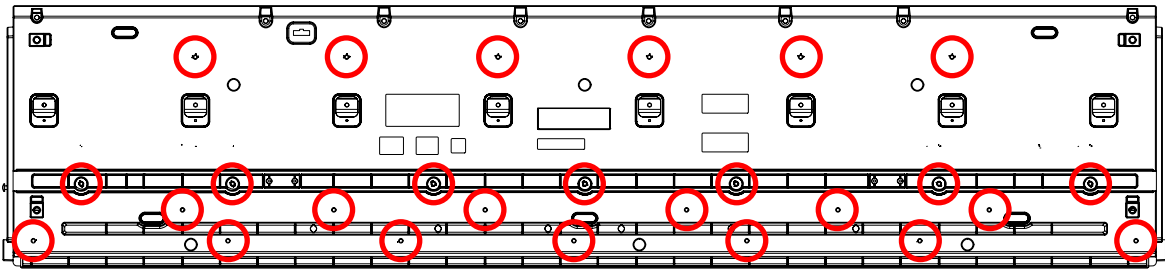
3. Remove three screws and then the KY-ASSY.

KY-ASSY
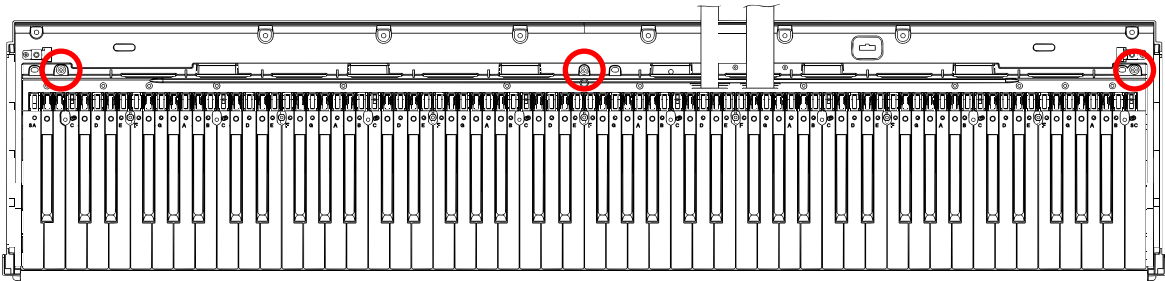
■ Removing the keys

<Removing the keys>

To remove the keys, you will need two of the tools described below.
Before removing a black key, you must first remove both white keys on either side of the black key.
White keys may be removed with the same procedures as removing black keys.

<Tool>

The tool used in the photos in this section was converted from a gardening ID tag. The size and shape of an ID tag accord to the dimensions below.

<Note on shaping an ID tag>

The thickness of the tool must be within 1.2~1.3 mm.
If the tool is too thin, removing keys become difficult.
If the tool is too thick, it may damage the rib of the chassis.

<Tool dimensions>

Width:
15~20 mm

R=2.75 mm

7 mm

Thickness:
within 1.2~1.3 mm

Use this part to
remove the key.
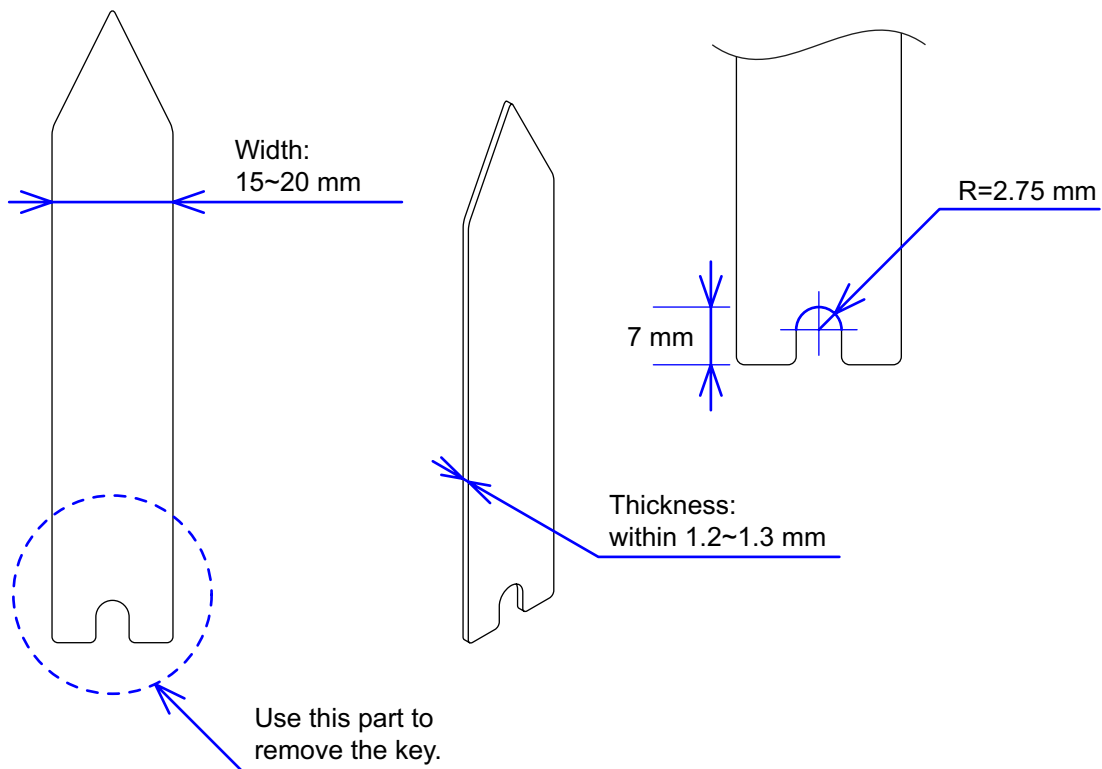
1. Insert the two tools between the rib of the chassis and a key.
2. When the tools are inserted to a certain depth, the key begins to be lifted and can then be removed.

<Cross-section image>

Tool

Rib of the chassis

Key

Tools

Chassis

<Installing the keys>
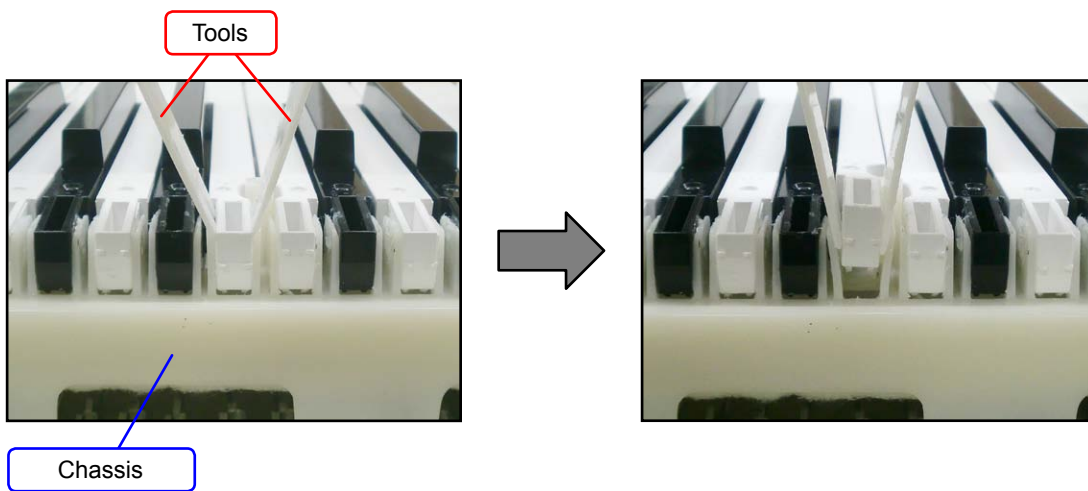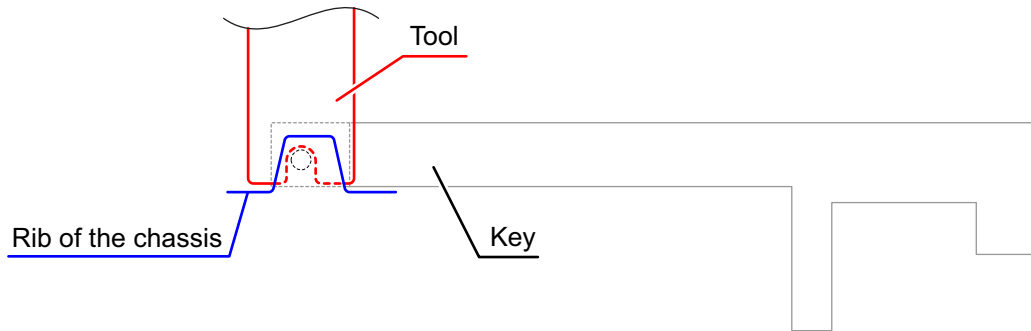
Refer to the illustration below for the location of each white key.
Be sure to install each key at its designated location.
All black keys are the same. A black key may be installed at any correct black-key location.

A code is indicated at the foot of each key.

SA	C	E	G	B	D	F	A	C	E	G	B	D	F	A	C	E	G	B	D	F	A	C	E	G	B
	B	D	F	A	C	E	G	B	D	F	A	C	E	G	B	D	F	A	C	E	G	B	D	F	A	SC
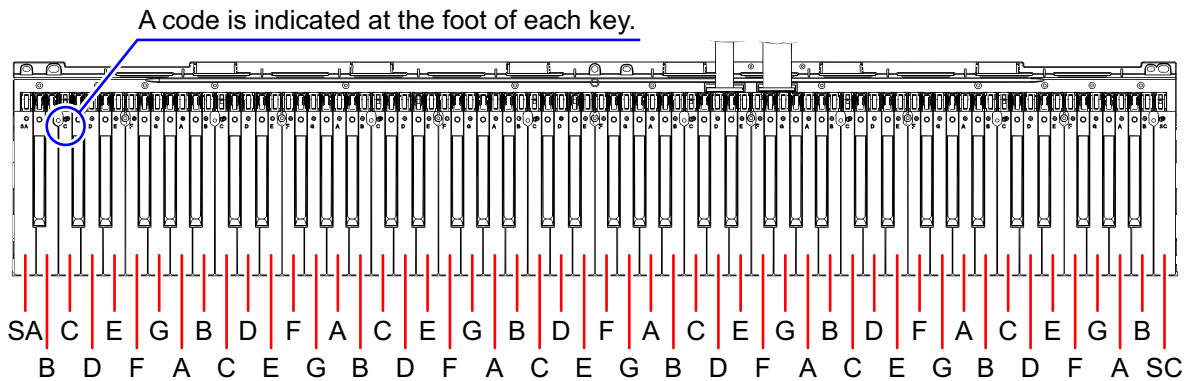
Install a black key before installing the white keys on either of its sides.
Follow the same procedures below to install a black or white key.

1. Assemble a key to a hammer.
2. Press the protrusion of the chassis firmly into the keyhole.
3. Press the key to see if it moves properly.

Set securely into the chassis.

Assemble a key to a hammer.
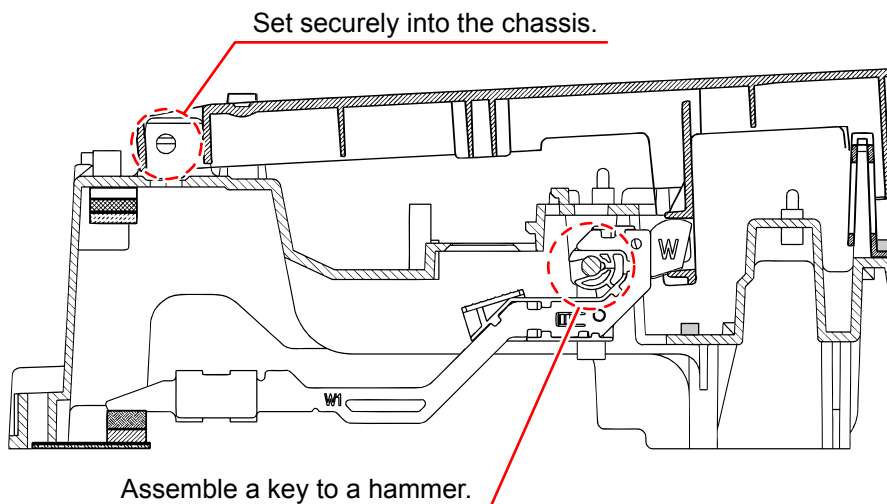
■ About the hammers

The design of the hammers installed in the PX-130BK/PX-130WE was modified after the mass production. The operation of the newly designed hammer is completely compatible with that of the old one. New and old hammers may be installed in one single unit. The installation and removal procedures are the same.
NOTE: When an old type of hammers is to be replaced, the new type of hammers has priority in shipping.
NOTE: The new types of hammers are installed in PX-130RD since the beginning of mass production.

<Old hammer>   <New hammer>
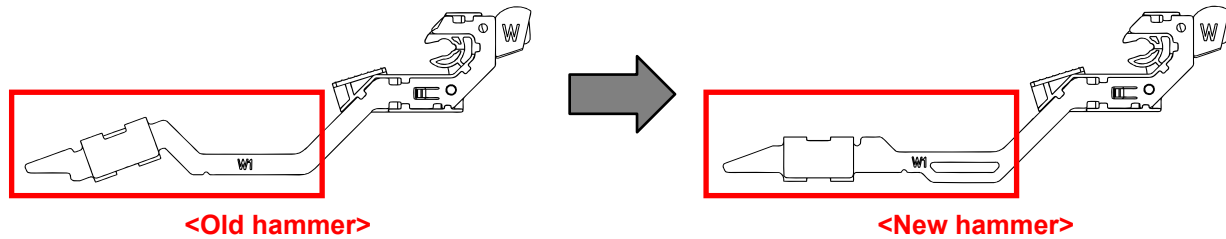
■ Removing the hammers

1. Place the chassis upside down so that the hammers are visible.
2. Press the chassis with the tip of tweezers.
3. While catching a hammer with tweezers, set the tweezers against the resin part of the chassis.
4. Using the chassis-tweezer contact as a fulcrum point, press down against the resin part in the direction of the red arrow in the illustration below, and then disengage the hammer.
   NOTE: You must press the resin part of the hammer.
   NOTE: Pressing on the metal part of the hammer may damage the area connected to the resin.

Tweezers

Press down the resin part.

Fulcrum point

<Kinds of hammers>
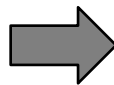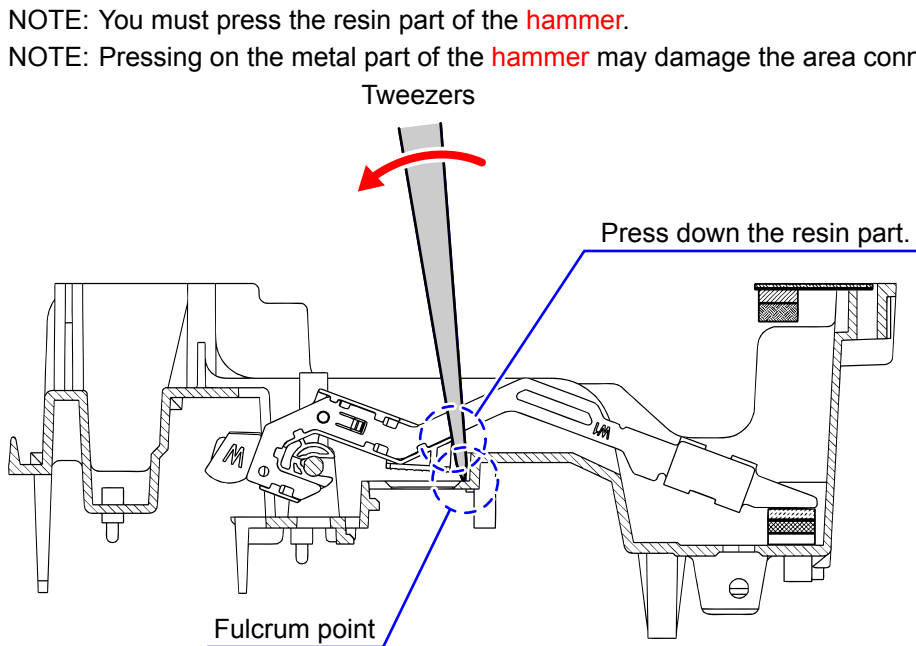
There are several kinds of hammers.
The type of a hammer may be identified by the code engraved on it.

Type of Hammer (for a white key)

Hammer Code (for a white key)

Type of Hammer (for a black key)

Hammer Code (for a black key)
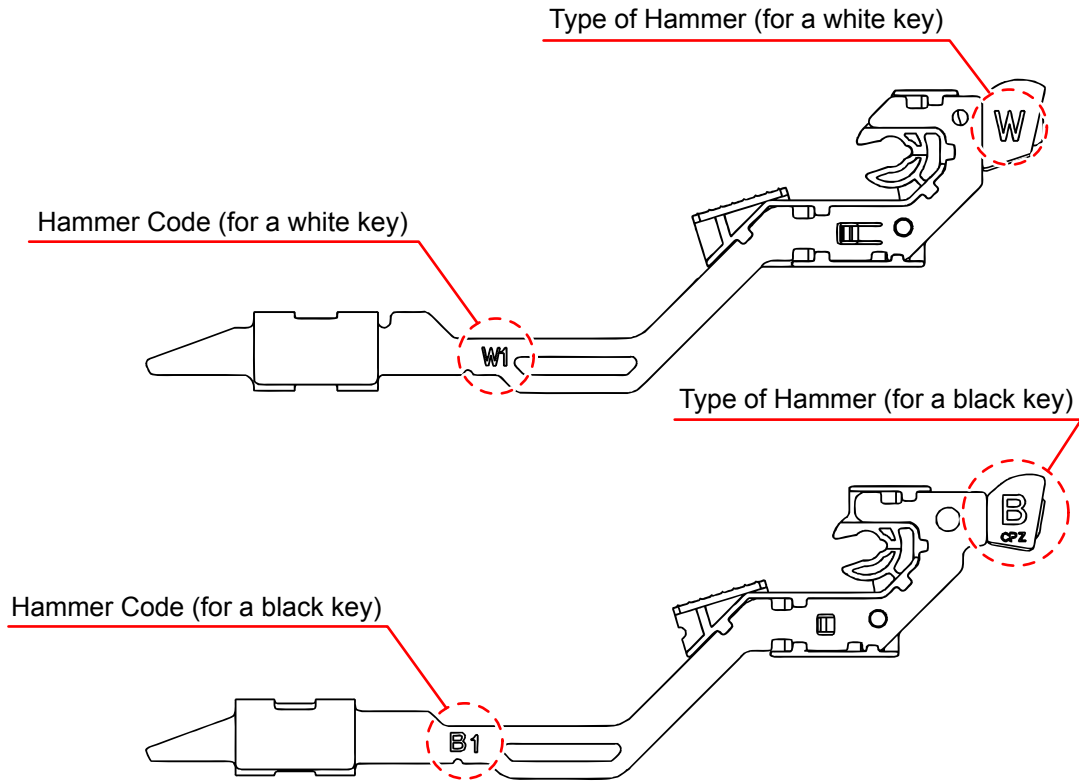
Type of Hammer: "W" for a white key, "B" for a black key.
Hammer Code: The hammers for white keys are coded W1, W2, W3, and W4.
                          The hammers for black keys are coded B1, B2, B3, and W4.

<Location to install the hammer>

A hammer must be installed at the correct location according to its type.
The combination of hammers and keys are shown below.

<Hammers for black keys>

B1 (9 keys)	B2 (9 keys)	B3 (9 keys)	B4 (9 keys)

W1 (13 keys)	W2 (13 keys)	W3 (13 keys)	W4 (13 keys)

<Hammers for white keys>

<Installing the hammers>
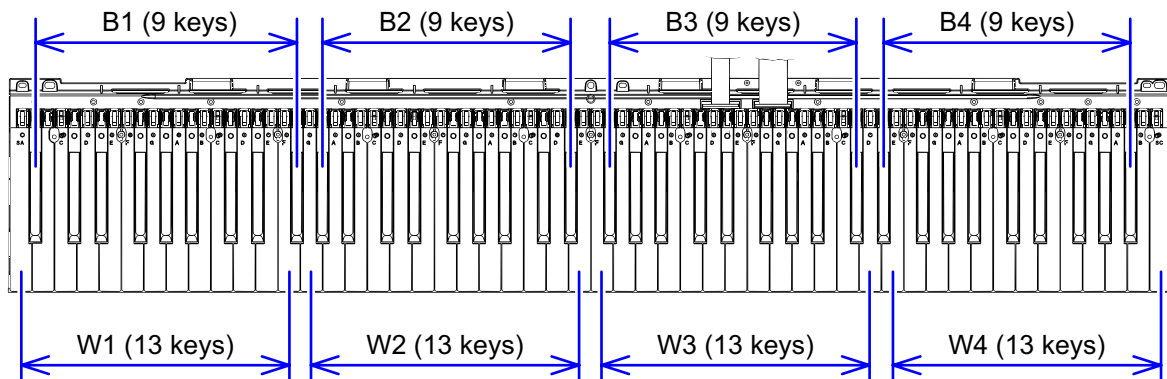
Be sure to install each hammer at its designated location. If a hammer does not move smoothly, check if it is installed at the correct location.

Follow the same procedures shown below to install a hammer for both black and white keys.
1. Use the tweezers to set a hammer at its correct location.
2. Press the chassis with the tip of tweezers.
3. Using the chassis-tweezers contact as a fulcrum point, press down the metal part of the hammer in the direction of the red arrow in the illustration below, and then install the hammer.
   NOTE: When installing, do not damage the felt.

Tweezers

Press down against the metal part.

Locked at this point

Fulcrum point

Be careful not to damage the felt.
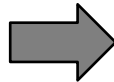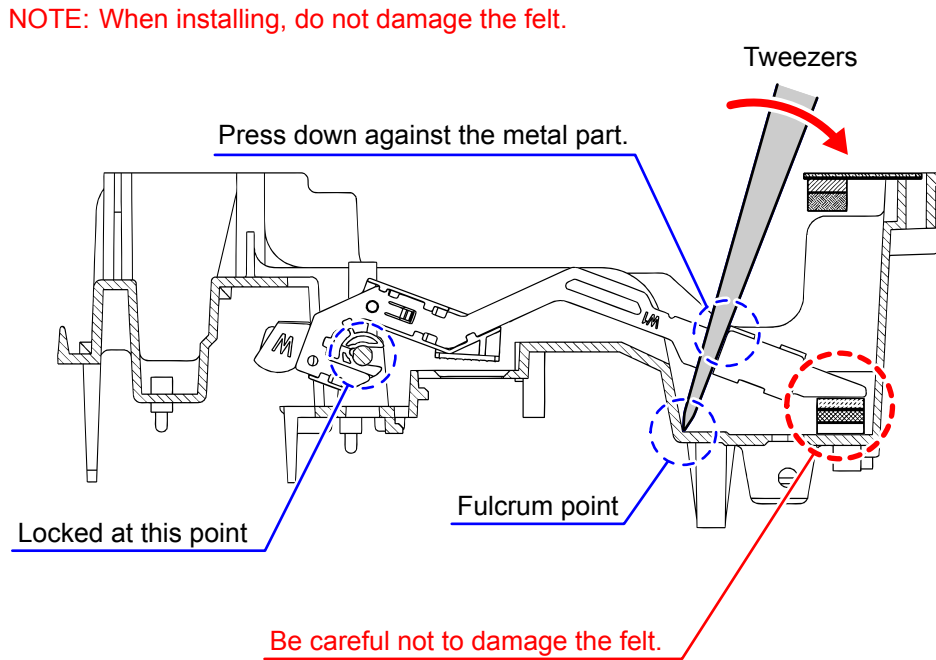
■ Removing the keyboard PCBs (MACP-KYC1/KYC2, KYD1)

1. Remove eight rubber keys.
   NOTE: One rubber key is shorter than the others.

Rubber keys

Short rubber key

Rubber keys

Short rubber key
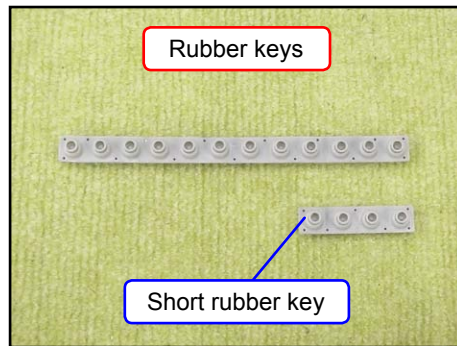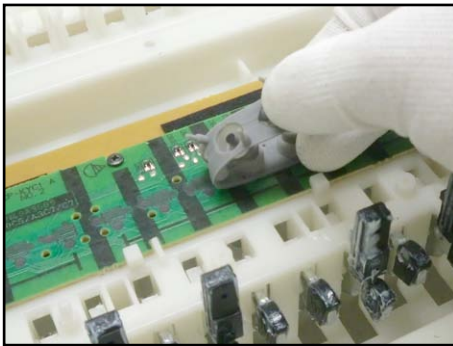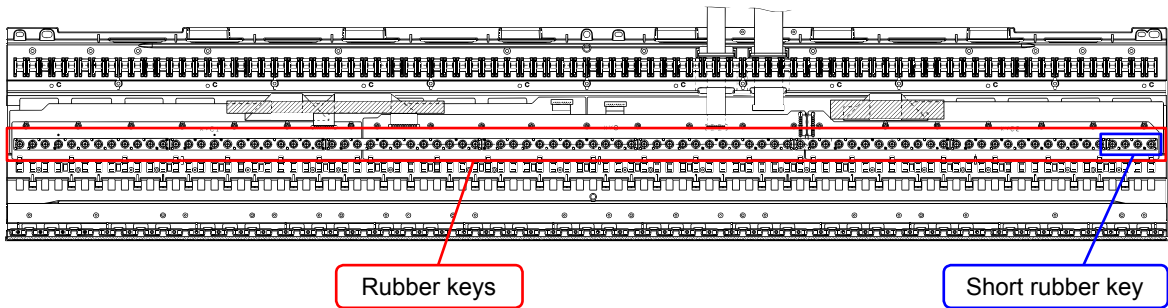
2. Remove the nonwoven tape.
3. Remove 23 screws.

Nonwoven tape

MACP-KYC1 PCB

MACP-KYD1 PCB
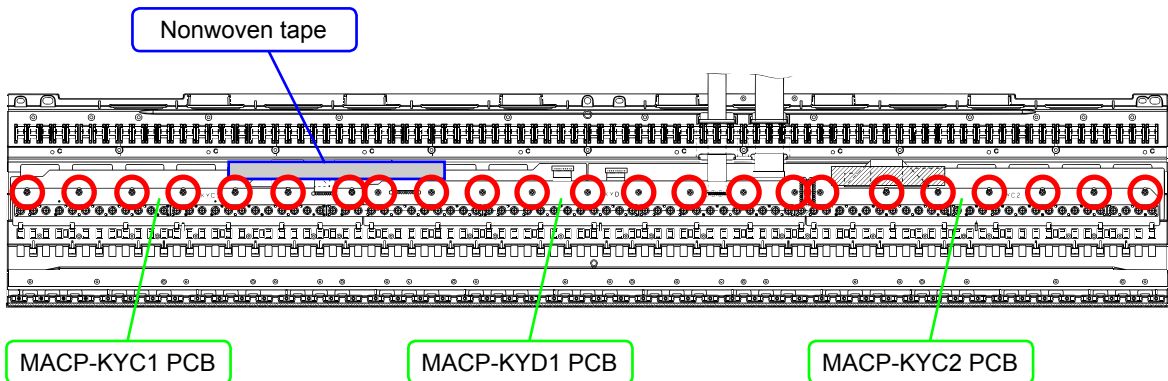
MACP-KYC2 PCB

4. Locate the FFC connected on the back of the MACP-KYD1 PCB. Unlock the connector to remove the FFC, and then disengage the MACP-KYC1 PCB, the KYC2 PCB, and the MACP-KYD1 PCB.

FFC

MACP-KYD1 PCB

MACP-KYC1 PCB

MACP-KYD1 PCB

MACP-KYC2 PCB

<Installing the keyboard PCBs (MACP-KYC1/KYC2, KYD1)>
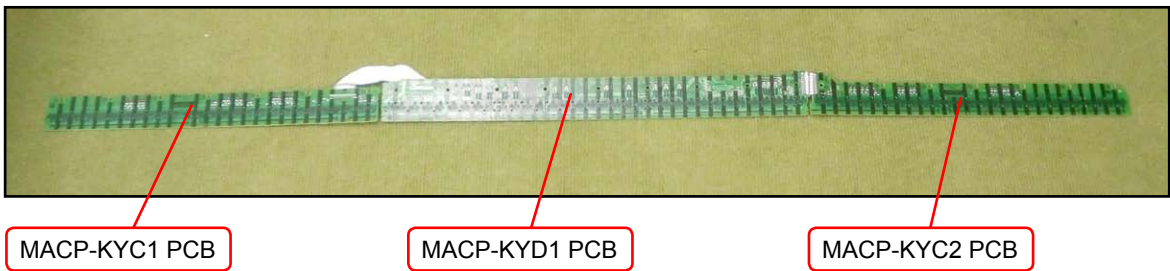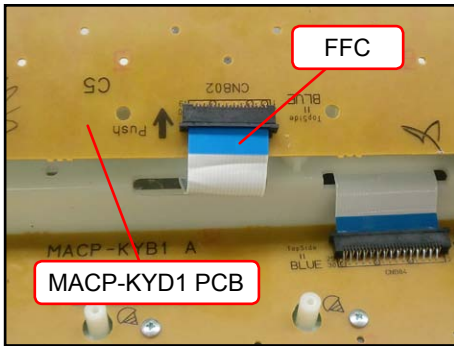
1. Connect the FFC to the MACP-KYD1 PCB and lock the connector.
    Be sure to connect it securely.
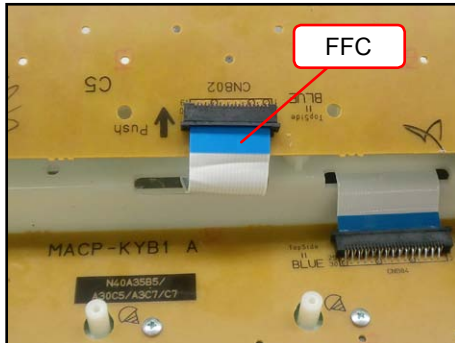
2. Install eight rubber keys.
    Be sure to install the short rubber key at the correct location.
    Lightly insert the tip of a rubber key into the PCB first, and then, press it in using the end of a paper clip. Do not press the rubber key forcefully to avoid damaging the rubber key.
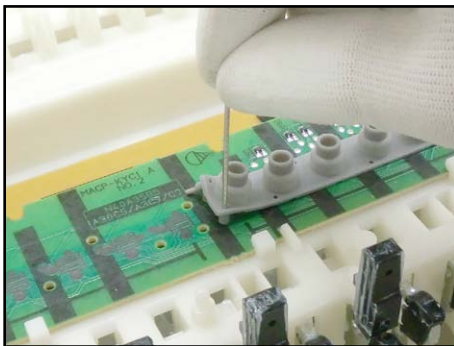
3. Secure the MACP-KYC1 PCB, the KYC2 PCB, and the MACP-KYD1 PCB with 23 screws.
    Press the PCBs lightly in the direction of the red arrow in the illustration below while tightening a screw.
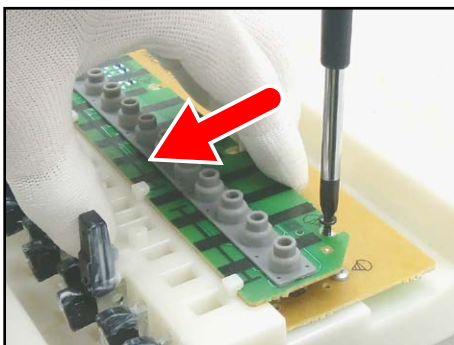
■ Removing the keyboard PCBs (MACP-KYA1/KYA2, KYB1/KYB2)

1. Remove the nonwoven tape. Unlock the connector and disengage the FFC connecting the MACP-KYA2 PCB and the MACP-KYB1.

Nonwoven tape   FFC

MACP-KYA1 PCB   MACP-KYA2 PCB   MACP-KYB1 PCB   MACP-KYB2 PCB
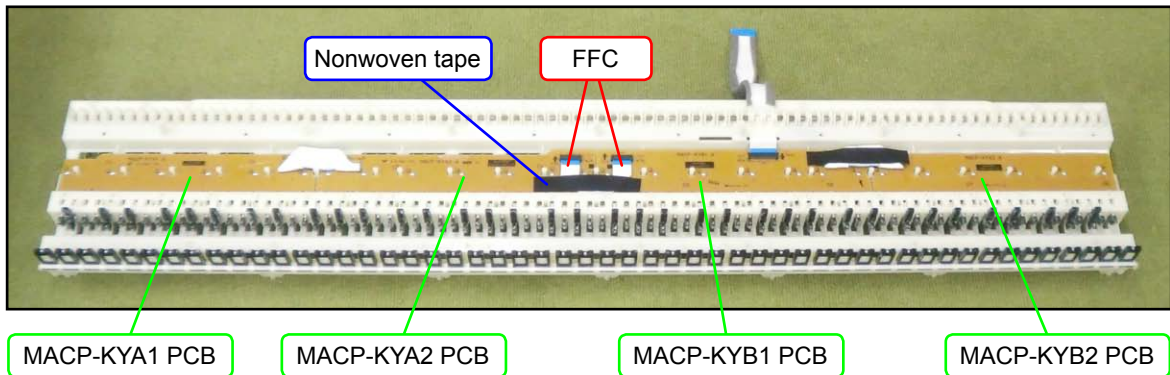
2. Remove 26 screws.
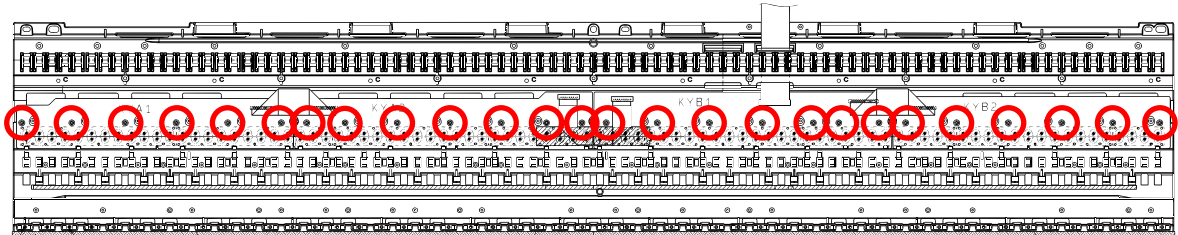
3. Unlock the connector and disengage the FFC connected to the MACP-KYB1 PCB.
   NOTE: When removing the FFC, be careful not to pull it too much in the direction of the red arrow in the illustration, or the PLATE on the back may come loose.

FFC

MACP-KYB1 PCB

<If the PLATE comes off>
The PLATE is a transparent plastic plate. If the plate comes off, put it on the place where the FFC is, and insert its end into place where the blue line is shown in the image.
NOTE: The design of the PLATE was modified after the mass production.
        The new types of plates are installed in PX-130RD since the beginning of mass production.

PLATE (Before change)

<Before change>   <After change>
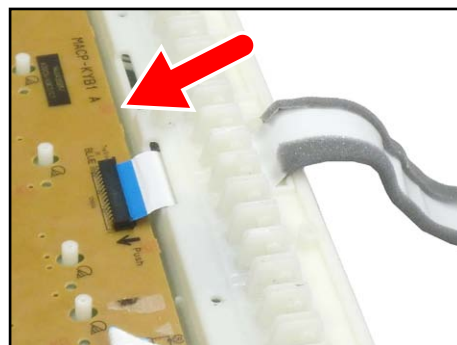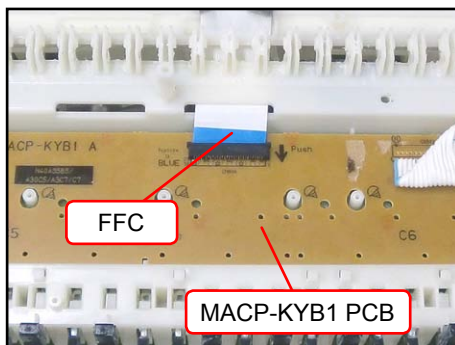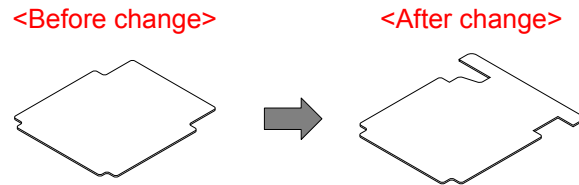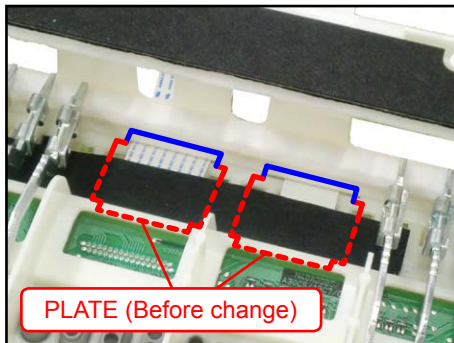
4. Remove the keyboard PCBs (MACP-KYA1/KYA2, KYB1/KYB2).

MACP-KYA2 PCB   MACP-KYA1 PCB

MACP-KYB2 PCB   MACP-KYB1 PCB

5. Remove eight rubber keys.
   NOTE: One rubber key is shorter than the others.

Rubber keys   Short rubber key

Rubber keys

Short rubber key

\<Installing the keyboard PCBs (MACP-KYA1/KYA2, KYB1/KYB2)\>
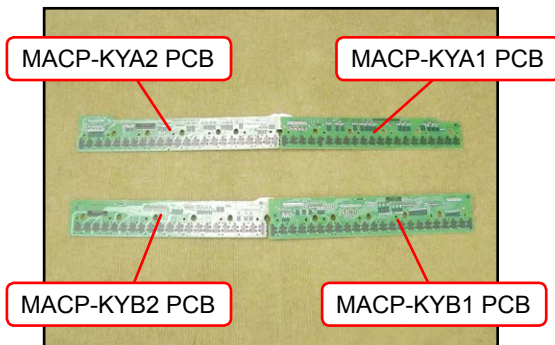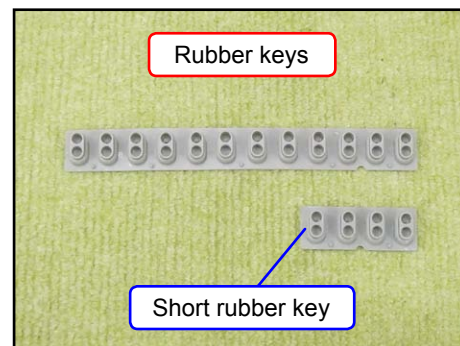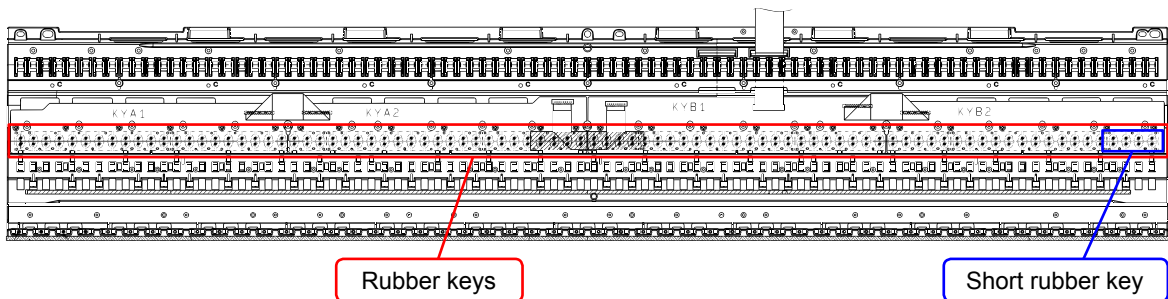
1. Place eight rubber keys on the chassis.
    Be sure to place the short rubber key in the correct location.

2. Connect the FFC to the MACP-KYB1 PCB and lock the connector.
    NOTE: When connecting the FFC, be careful not to pull it too much in the direction of the red arrow
    in the illustration, or the PLATE on the back may come loose.

FFC

MACP-KYB1 PCB

\<If the PLATE comes off\>
The PLATE is a transparent plastic plate. If the plate comes off, put it on the place where the FFC
is, and insert its end into place where the blue line is shown in the image.
NOTE: The design of the PLATE was modified after the mass production.
The new types of plates are installed in PX-130RD since the beginning of mass production.

\<Before change\>   \<After change\>

PLATE (Before change)
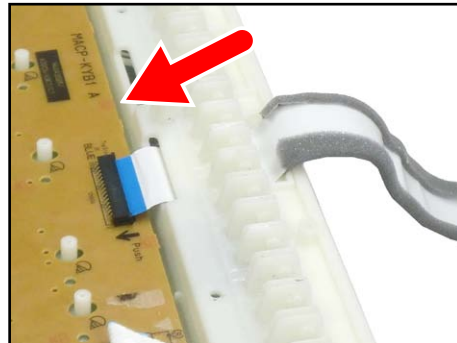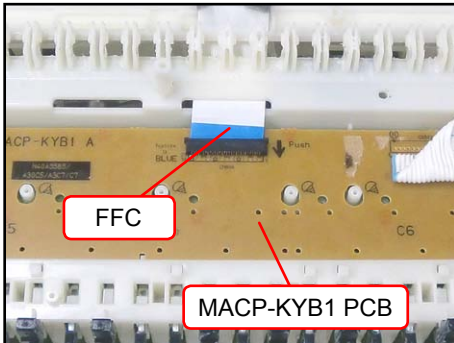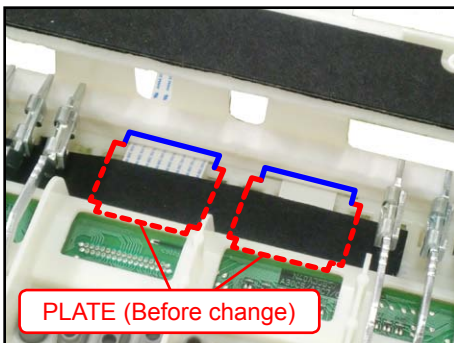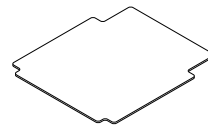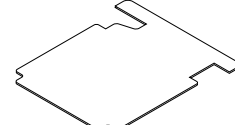
3. Insert the MACP-KYA1/KYA2 PCB and MACP-KYB1/KYB2 PCB at an angle against the chassis, and place them while paying attention not to misalign the rubber keys.
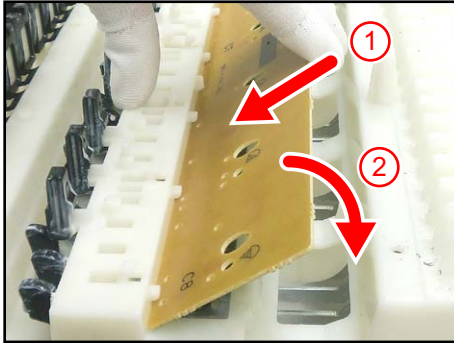
4. While placing the PCBs, the contact with the rubber keys may come out of alignment. Align them against the red dotted line in the illustration below, lift the PCB once in the direction of the red arrow, and then place them again.
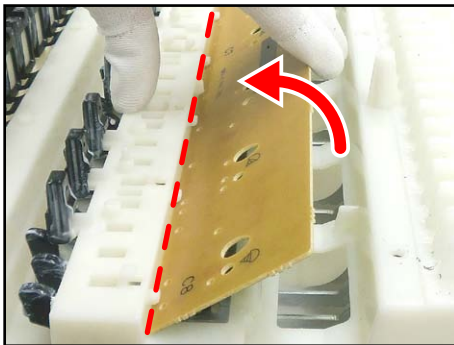
5. Secure the MACP-KYA1/KYA2 PCBs, and the MACP-KYB1/KYB2 PCBs with 26 screws.
Press the PCBs lightly in the direction of the red arrow in the illustration below while tightening a screw.

DIAGNOSTIC PROGRAM

Initial Setting

1. Connect the AC adaptor.
2. Connect the pedal.
   Even if a pedal unit is unavailable for the test, all the tests except for the pedal check may be performed.
   * SP-3 is the pedal unit that comes with PX-130.
     Connect it to the DAMPER PEDAL terminal in the back of the main unit.
   * SP-32 is a pedal unit sold separately.
     Connect it to the pedal connector on the bottom of the main unit.
     To use SP-32, you will need the stand CS-67P, sold separately.
3. "Main" volume: MAX
4. Have a PC and a USB cable ready. (They will be used in the USB check.)
   Operating System: Windows$^®$ XP (SP2 or later) *1
       Windows Vista$^®$ *2
       Windows 7$^®$ *3
       Mac OS$^®$ X (10.3.9, 10.4.11 or later, 10.5.6 or later, 10.6.2 or later)
       *1: Windows XP Home Edition/Windows XP Professional (32 bit)
       *2: Windows Vista (32 bit)
       *3: Windows 7 (32 bit, 64 bit)

How to start the diagnostic program

1. Hold down the "METRONOME", "RECORDER", and "SONG (▶/■)" buttons at the same time, to turn the power ON.
2. Release the "METRONOME", "RECORDER", and "SONG (▶/■)" buttons.
3. After the diagnostic program is launched, Automatic Test will start.
   Select Sequential Test or Single Test after Automatic Test is completed.

Be sure to turn off the power when the test is finished.

Test Items

This diagnostic program tests the following items.
Selecting the "2. Model check" will run Test 2 (Model check) through 8 (Key check) in sequence.
The "9. Flash Memory check" is a single test. (see page 37)

No.	Test Items	Note
1	Automatic Test	RAM, ROM, LED (Performed at the launch of the diagnostic program)
Sequential Test		
2	Model check	
3	ROM Version check	Internal, External
4	Button check	
5	Pedal check	Pedal
6	Headphones check	Headphones
7	USB check	PC, USB cable
8	Key check	
Single test		
9	Flash Memory check	

Diagnostic program

1. Automatic Test

Automatic Test is performed each time the diagnostic program is launched.

1. RAM check and ROM check are performed.
   If a test fails, the "SONG (▶/■)" LED or the "L/R" LED illuminates.
2. LED check is performed.
   The confirmation chords C4, E4, G4 sound, and the LEDs illuminate in the order indicated with the blue arrow as shown in the illustration below.
   The LEDs illuminate repeatedly until the "2. Model check" is performed.
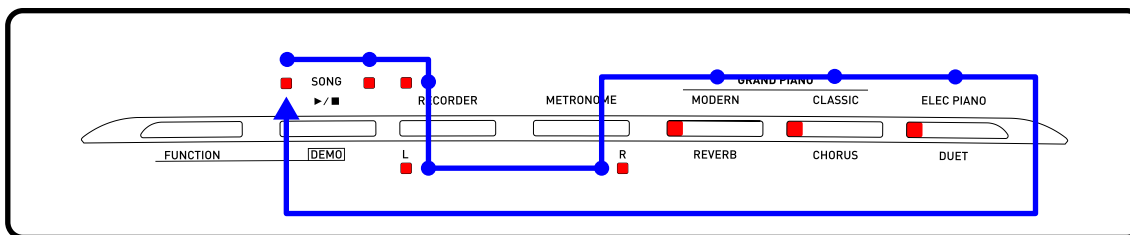
2. Model check

1. Press the "FUNCTION" button to perform the "MODEL check".
   The confirmation chords C4, E4, G4 sound.
   If the model is PX-130, the "L" LED flashes.

3. ROM Version check (Internal/External)

The numbers necessary in the ROM version check are expressed by the combination of the illuminated LEDs.

<Combinations of LEDs>

0: All LEDs OFF	5: "ELEC PIANO" + "MODERN" LED
1: "ELEC PIANO" LED	6: "MODERN" + "CLASSIC" LED
2: "CLASSIC" LED	7: "MODERN" + "CLASSIC" + "ELEC PIANO" LED
3: "ELEC PIANO" + "CLASSIC" LED	8: "RECORDER" LED
4: "MODERN" LED	9: "ELEC PIANO" + "RECORDER" LED

NOTE: The ROM version differs depending on the QC number. The QC number is printed in the QC label attached on the bottom of the main unit.

QC label
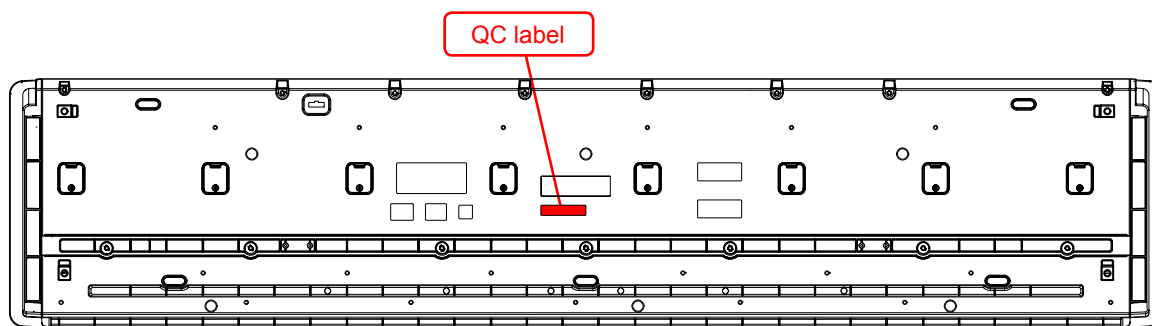
1. Press the "FUNCTION" button to perform the "ROM Version check (Internal)". The confirmation chords C4, E4, G4 sound.
    The "ELEC PIANO", "CLASSIC", "MODERN", "RECORDER" LEDs illuminate and the "L" LED flashes while on stand-by.
    * If you don't wish to perform the "ROM version check (Internal)", go on to the step (3).

<LEDs on stand-by>
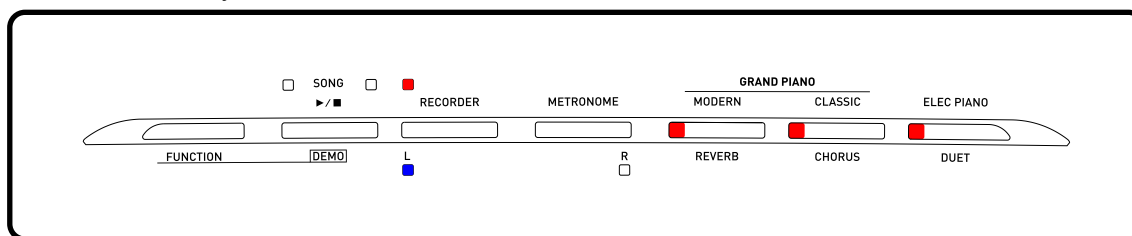
2. Each time you press the "SONG (▶/■)" button, the status of the LEDs changes.
    Check to see if the LEDs illuminate in the order shown below.
    QC number: 8000501 to 8028031   Internal ROM (0100): 0 → 1 → 0 → 0 → Stand-by mode
    QC number: 8028032 or later   Internal ROM (0103): 0 → 1 → 0 → 3 → Stand-by mode

Sequence	QC number: 8000501 to 8028031		QC number: 8028032 or later	
	Display	LED status	Display	LED status
1	(0)	All LEDs OFF	(0)	All LEDs OFF
2	(1)	"ELEC PIANO" LED	(1)	"ELEC PIANO" LED
3	(0)	All LEDs OFF	(0)	All LEDs OFF
4	(0)	All LEDs OFF	(3)	"ELEC PIANO" + "CLASSIC" LED
5	—	Stand-by status as in Step 1	—	Stand-by status as in Step 1

* While the internal ROM version is indicated, the "L" LED keeps flashing.

3. Press the "FUNCTION" button to perform the "ROM Version check (External)". The confirmation chords C4, E4, G4 sound.

The "ELEC PIANO", "CLASSIC", "MODERN", "RECORDER" LEDs illuminate and the "R" LED flashes while on stand-by.

* If you don't wish to perform the "ROM version check (External)", go on to the step (1) of the "4. Button check".
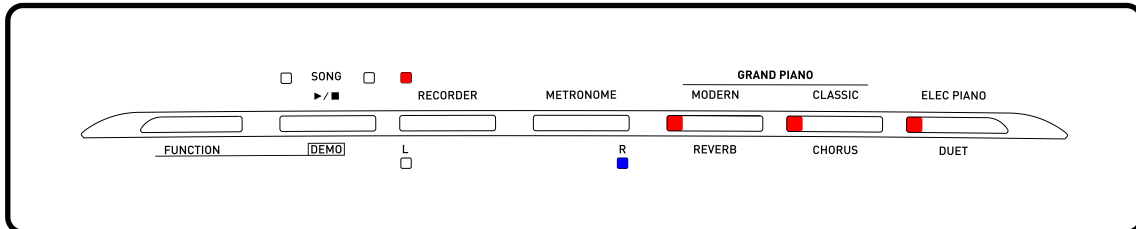
<LEDs on stand-by>

4. Each time you press the "SONG (▶/■)" button, the status of the LEDs changes.
Check to see if the LEDs illuminate in the order shown below.

QC number: 8000501 to 8028031   External ROM (0100): 0 → 1 → 0 → 0 → Stand-by mode

QC number: 8028032 or later   External ROM (0103): 0 → 1 → 0 → 3 → Stand-by mode

Sequence	QC number: 8000501 to 8028031		QC number: 8028032 or later	
	Display	LED status	Display	LED status
1	(0)	All LEDs OFF	(0)	All LEDs OFF
2	(1)	"ELEC PIANO" LED	(1)	"ELEC PIANO" LED
3	(0)	All LEDs OFF	(0)	All LEDs OFF
4	(0)	All LEDs OFF	(3)	"ELEC PIANO" + "CLASSIC" LED
5	—	Stand-by status as in Step 3	—	Stand-by status as in Step 3

* While the external ROM version is indicated, the "R" LED keeps flashing.

4. Button check

1. Press the "FUNCTION" button to perform the "BUTTON check".
The confirmation chords C4, E4, G4 sound, and all LEDs turn off.
2. Press the buttons in the order indicated in the illustration on the bottom.
Each time the button is pressed, the confirmation chord C6 sounds.
If a button is not operating properly or a button is pressed in a wrong order, an error tone (F2) sounds.
* You cannot cancel this test procedure mid-way.
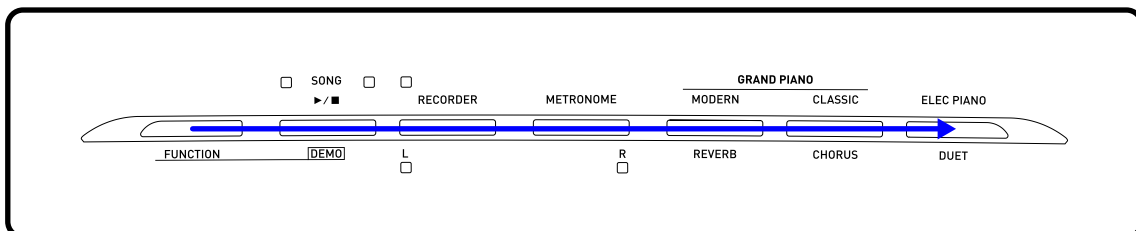
3. When the "ELEC PIANO" button is pressed at the end, the confirmation chords C4, E4, G4 sound and all LEDs turn off.

5. Pedal check

<About the pedal>
If there is no pedal unit for testing, go on to the "6. Headphones check".
The pedal unit SP-3 is used in Step (1).
The pedal unit SP-32 is used in Step (2) - (5).

1. Press the "SP-3" pedal.
    The confirmation chord C4 sounds and the "ELEC PIANO" LED lights.
2. Press the "SOFT" pedal.
    The confirmation chord E4 sounds and the "MODERN" LED lights.
3. Press the "SOSTENUTO" pedal.
    The confirmation chord G4 sounds and the "CLASSIC" LED lights.
4. Press the "DAMPER" pedal (ON HALF).
    The confirmation chord C4 sounds and "ELEC PIANO" LED flashes.
5. Press the "DAMPER" pedal firmly (ON FULL).
    The confirmation chord C4 sounds and the "ELEC PIANO" LED lights.

6. Headphones check

1. Press the "FUNCTION" button to perform the "Headphones check".
    The confirmation chords C4, E4, G4 sound and the "L" LED lights.
2. Connect the headphones to the jack in the front of the main unit.
    The "L" LED turns off and the "R" LED illuminates.
3. Press the "A4" key.
4. Remove the headphones from the jack.
    The "R" LED turns off and the "L" LED illuminates.
5. Connect the headphones to the jack in the back of the main unit.
    The "L" LED turns off and the "R" LED illuminates.
6. Press the "A4" key.
7. Remove the headphones from the jack.
    The "R" LED turns off and the "L" LED illuminates.

7. USB check

1. Press the "FUNCTION" button to perform the "USB check".
    The confirmation chords C4, E4, G4 sound.
2. Connect PX-130 to the PC with a USB cable.
3. Press the "MODERN" button.
    The "R" LED illuminates instantaneously, and the confirmation chord C6 sounds.
4. Disconnect the USB cable.

8. Key check

1. Press the "FUNCTION" button.
   The confirmation chords C4, E4, G4 sound.
2. Press the "FUNCTION" button.
   The confirmation chords C4, E4, G4 sound twice.
3. Press the "FUNCTION" button to perform the "Key check".
4. Confirm that a test tone (approx. 500 Hz) sounds from the left speaker while a key is pressed half way.
   Check all white and black keys.
5. Confirm that a test tone (approx. 500 Hz) sounds from the left speaker and a high-pitched test tone
   (approx. 2 kHz) sounds from the right speaker while a key is pressed completely.
   Check all white and black keys.
6. Press the "POWER" button to turn off the power.

9. Flash Memory check

1. Boot the diagnostic program.
2. Hold down the "ELEC PIANO" button for 2 seconds.
   The "ELEC PIANO" LED illuminates instantaneously, and the confirmation chords C4, E4, G4 sound.
3. Press the "POWER" button to turn off the power.

Operation after replacing the main PCB or the keyboard parts

Make sure to perform the following procedure after replacing the main PCB or the keyboard parts.
Applicable parts number on the Parts List: No.1 for the main PCB, No. 6 to 38 for the KY-ASSY
or the KY-ASSY component parts

Procedure
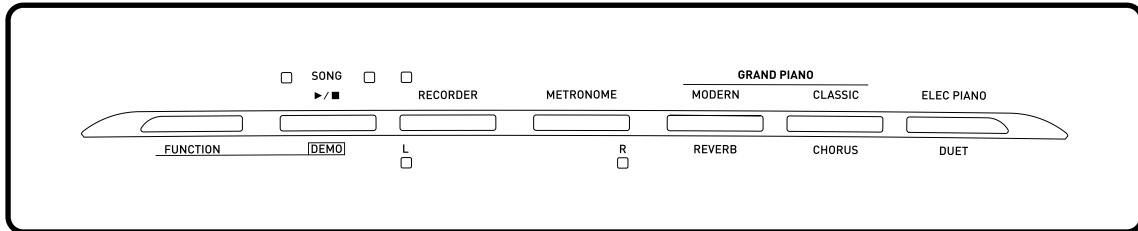
1. Hold down the "FUNCTION", "METRONOME", and "ELEC PIANO" buttons at the same time, to turn
   the power ON.
   All LEDs are lit.

2. Release the "FUNCTION", "METRONOME", and "ELEC PIANO" buttons.
   All the LEDs turn of except "L" and "R" LEDs.

3. Press the "METRONOME" button.
   The "R" and "MODERN" LEDs are lit.

4. Press the "MODERN" button.
   The "R" and "CLASSIC" LEDs are lit.

5. Press the "CLASSIC" button.
   The "R" and "ELEC PIANO" LEDs are lit.

6. Press the "ELEC PIANO" button.
   The LEDs on both side of the "SONG (▶/■)" mark, the "R" LED, and the "ELEC PIANO" LED are lit.

7. Press the "RECORDER" and "METRONOME" buttons at the same time.

8. Press the "POWER" button to turn off the power.

EXPLODED VIEW

LEFT SPEAKER

60±10 mm

190 mm

RIGHT SPEAKER

50±10 mm

480 mm

MDA1

10~15 mm

50 mm

100 mm

510 mm
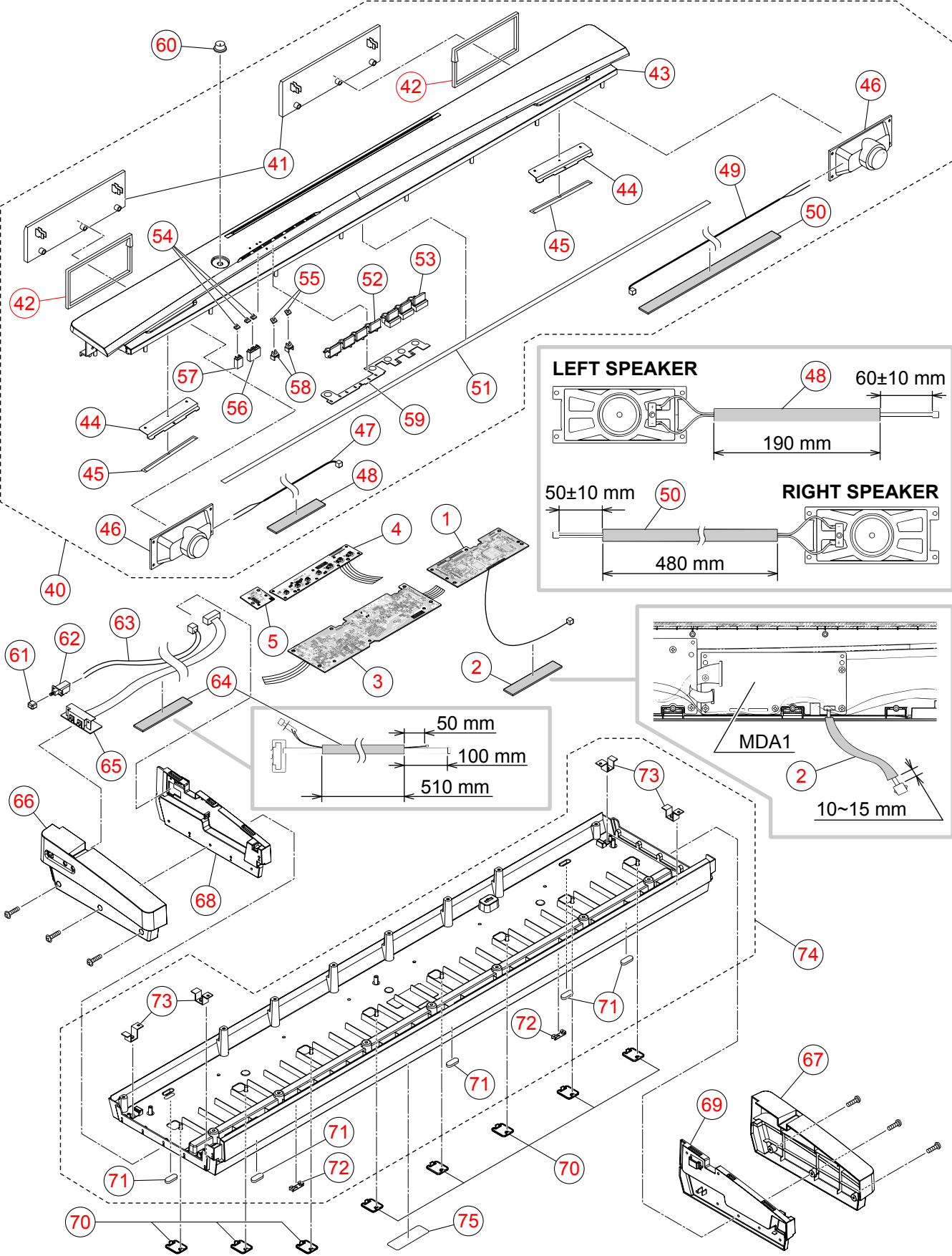
KEYBOARD ASSY
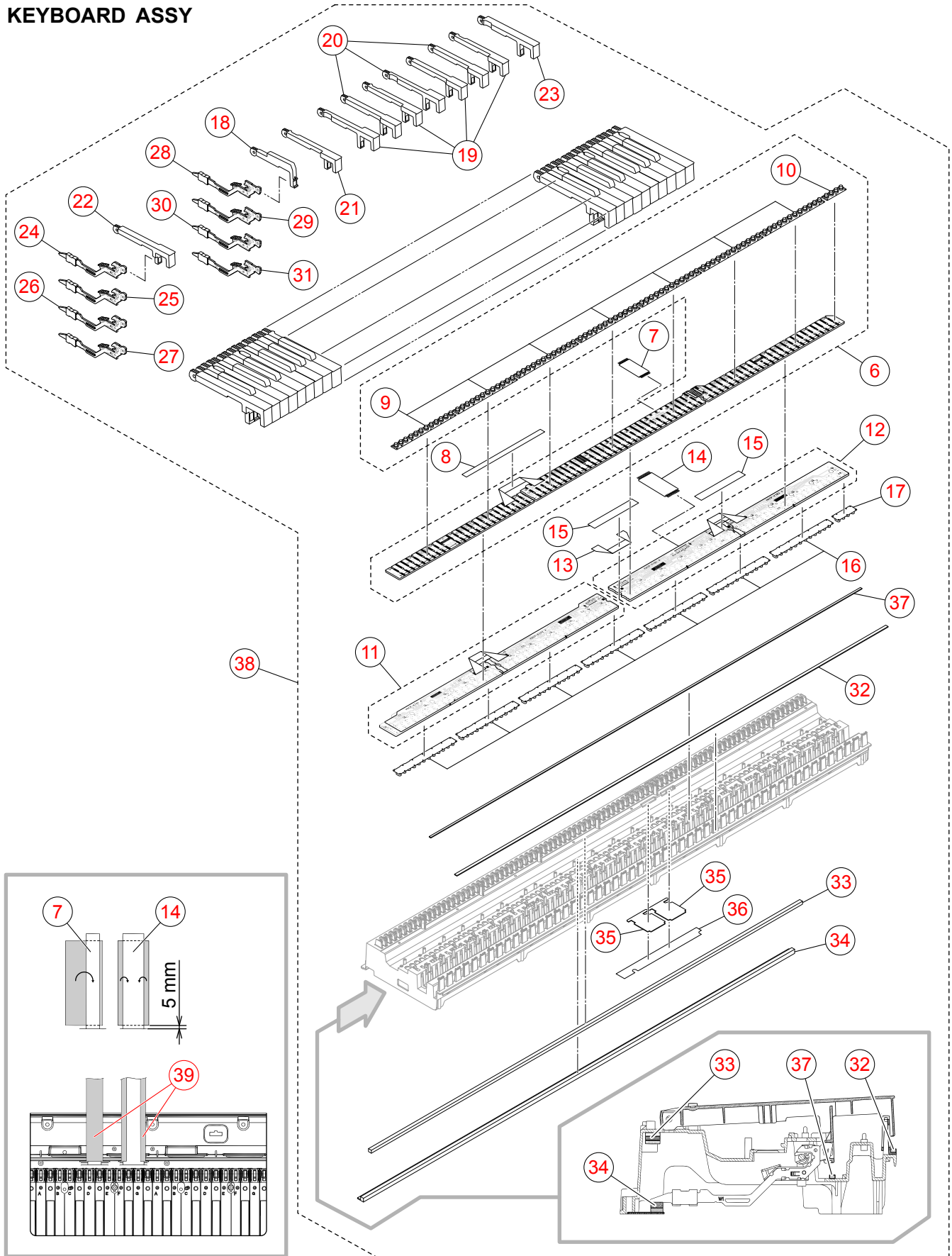
PARTS LIST

PX-130

Notes:
1. Prices and specifications are subject to change without prior notice.

2. Refer to the latest "Parts Price Code" at "PARTS FINDER" on the Casio Service WEB site (https://www.servicecasio.com).

3. As for spare parts order and supply, refer to the "GUIDEBOOK for Spare parts Supply", published separately.

4. The numbers in item column correspond to the same numbers in drawing.

1: PX-130BK_DI **5: PX-130WE_DI** **9: PX-130RD_DI**
2: PX-130BK_EU **6: PX-130WE_EU** **10: PX-130RD_EU**
3: PX-130BK_UK **7: PX-130WE_UK** **11: PX-130RD_UK**
4: PX-130BK_US **8: PX-130WE_US** **12: PX-130RD_US**

N	Item	Code No.	Parts Name	Specification	1	2	3	4	5	6	7	8	9	10	11	12	Price Code	R	Remarks
			MAIN PCB (MDA1)																
N	1	10340876	PCB ASSY/MAIN	TK-RJM509830*001	1	1	1	1	1	1	1	1	1	1	1	1		B	MDA1 PCB
	2	69261580	SPONGE/35X150	M440499-1	1	1	1	1	1	1	1	1	1	1	1	1		B	
N	CN9	10257512	CONNECTOR	UBR23-4K5G00	1	1	1	1	1	1	1	1	1	1	1	1		C	USB jack
	IC13	10256338	IC	CS4351-CZZR	1	1	1	1	1	1	1	1	1	1	1	1		C	
	IC1	10241413	IC	R1151N001C-TR-F	1	1	1	1	1	1	1	1	1	1	1	1		C	
	IC12	10197808	IC	TC7SZ08FU(TE85L.F)	1	1	1	1	1	1	1	1	1	1	1	1		C	
	IC4	10197554	IC	TC7SZ126FU(TE85L.F	1	1	1	1	1	1	1	1	1	1	1	1		C	
	IC5	10255468	LSI	MB91F036PFF-GE1	1	1	1	1	1	1	1	1	1	1	1	1		C	
N	IC14	10333782	LSI	UPD65943GK-F659EUA	1	1	1	1	1	1	1	1	1	1	1	1		C	
N	IC2	10333111	MEMORY	MD56V82160-6TAZ03B	1	1	1	1	1	1	1	1	1	1	1	1		C	
N	IC6	10333112	MEMORY	S29GL256P90TFCR20D	1	1	1	1	1	1	1	1	1	1	1	1		C	
	L39	10193074	COIL	DLW21HN181SQ2L	1	1	1	1	1	1	1	1	1	1	1	1		X	
	Q1,Q2,Q3,Q8	69409403	TRANSISTOR	2SA1576AT106R	4	4	4	4	4	4	4	4	4	4	4	4		X	
	Q7	22592764	TRANSISTOR	2SB1188T100Q	1	1	1	1	1	1	1	1	1	1	1	1		X	
	Q4,Q5,Q6	69300298	TRANSISTOR	2SC4081T106R	3	3	3	3	3	3	3	3	3	3	3	3		X	
	X1,X31	10334293	RESONATOR	9C12000163	2	2	2	2	2	2	2	2	2	2	2	2		X	
			SUB PCB (PSA1)																
N	3	10340877	PCB ASSY/PSA1	TK-RJM509831*001	1	1	1	1	1	1	1	1	1	1	1	1		C	PSA1 PCB
	IC203	10201503	IC	PQ1CG21H2FZH	1	1	1	1	1	1	1	1	1	1	1	1		C	
	IC202	10306512	IC	TDA7297	1	1	1	1	1	1	1	1	1	1	1	1		C	
	J204	10206815	CONNECTOR	JY-6314*01-030	1	1	1	1	1	1	1	1	1	1	1	1		B	Damper pedal jack
N	J202	10334294	CONNECTOR	KM02022ABMP	1	1	1	1	1	1	1	1	1	1	1	1		A	DC jack
	L202-L204, L206	10231920	COIL	RB53-856397NP	4	4	4	4	4	4	4	4	4	4	4	4		X	
	L205	10232457	COIL	RII7-860400NP	1	1	1	1	1	1	1	1	1	1	1	1		X	
N	D204	10334295	DIODE	LUDZS12BT1G	1	1	1	1	1	1	1	1	1	1	1	1		X	
N	D202	10334296	DIODE	LUDZS8.2BT1G	1	1	1	1	1	1	1	1	1	1	1	1		X	
	D203	10210387	DIODE	RSX101VA-30TR	1	1	1	1	1	1	1	1	1	1	1	1		X	
	D201	10294394	DIODE	SK34A	1	1	1	1	1	1	1	1	1	1	1	1		X	
	FU201	10238345	FUSE	25H0500G	1	1	1	1	1	1	1	1	1	1	1	1		C	
	IC201	10306415	IC	BH3547F-E2	1	1	1	1	1	1	1	1	1	1	1	1		C	
	Q201-Q209	69300298	TRANSISTOR	2SC4081T106R	9	9	9	9	9	9	9	9	9	9	9	9		X	

1: **PX-130BK_DI** 5: **PX-130WE_DI** 9: **PX-130RD_DI**
2: **PX-130BK_EU** 6: **PX-130WE_EU** 10: **PX-130RD_EU**
3: **PX-130BK_UK** 7: **PX-130WE_UK** 11: **PX-130RD_UK**
4: **PX-130BK_US** 8: **PX-130WE_US** 12: **PX-130RD_US**

N	Item	Code No.	Parts Name	Specification	Q'ty												Price Code	R	Remarks
					1	2	3	4	5	6	7	8	9	10	11	12			
			CONSOLE PCB (CNA1)																
N	4	10340879	PCB ASSY/CNA1	TK-RJM509832*001	1	1	1	1	1	1	1	1	1	1	1	1		X	CNA1 PCB
N	D603-D609	10336974	LED	26-21/R1	7	7	7	7	7	7	7	7	7	7	7	7		X	
N	D602	10336975	LED	26-21/Y1	1	1	1	1	1	1	1	1	1	1	1	1		X	
N	SW601-SW607	10337110	SWITCH	TP-1138A-10-100GF	7	7	7	7	7	7	7	7	7	7	7	7		C	
			CONSOLE PCB (CNA2)																
N	5	10340878	PCB ASSY/CNA2	TK-RJM509833*001	1	1	1	1	1	1	1	1	1	1	1	1		C	CNA2 PCB
	VR601	10123103	VARIABLE RESISTOR	RK09K12C0D1B	1	1	1	1	1	1	1	1	1	1	1	1		B	Main volume
			KEYBOARD ASSY																
N	6	10340880	PCB ASSY/KEY	TK-RJM509609*001	1	1	1	1	1	1	1	1	1	1	1	1		C	KYC & KYD PCBs
	D601-D628, D801-D818	10301580	DIODE	LM1MA142WAT1G	46	46	46	46	46	46	46	46	46	46	46	46		X	
	7	10336109	CABLE	UL2896-20-280-MACP	1	1	1	1	1	1	1	1	1	1	1	1		X	
	8	10334298	FABRIC TAPE/15X270	M411937-001V01	1	1	1	1	1	1	1	1	1	1	1	1		X	
N	9	10355627	RUBBER CONTACT/AG1	RJM509219-002V02	7	7	7	7	7	7	7	7	7	7	7	7		A	
N	10	10355628	RUBBER CONTACT/GC1	RJM509220-002V02	1	1	1	1	1	1	1	1	1	1	1	1		A	
	11	10341198	PCB ASSY/KYA	TK-RJM509622*001	1	1	1	1	1	1	1	1	1	1	1	1		C	KYA PCBs
	D601-D644	10294400	DIODE	LM1MA142WKT1G	44	44	44	44	44	44	44	44	44	44	44	44		X	
	12	10341199	PCB ASSY/KYB	TK-RJM509624*001	1	1	1	1	1	1	1	1	1	1	1	1		C	KYB PCBs
	D801-D844	10294400	DIODE	LM1MA142WKT1G	44	44	44	44	44	44	44	44	44	44	44	44		X	
	13	10336111	CABLE	UL2896-20-120-MACP	1	1	1	1	1	1	1	1	1	1	1	1		X	
	14	10336108	CABLE	UL2896-30-265-MACP	1	1	1	1	1	1	1	1	1	1	1	1		X	
N	15	10164446	FABRIC TAPE20X120	RJM502073-002V01	2	2	2	2	2	2	2	2	2	2	2	2		X	
N	16	10334331	RUBBER CONTACT/AG2	RJM509217-001V01	7	7	7	7	7	7	7	7	7	7	7	7		A	
N	17	10334332	RUBBER CONTACT/GC2	RJM509218-001V01	1	1	1	1	1	1	1	1	1	1	1	1		A	
	18	10284644	BLACK KEY	RJM502797-001V01	36	36	36	36	36	36	36	36	36	36	36	36		A	
	19	10284645	WHITE KEY/CEGB	RJM502862-001V03	7	7	7	7	7	7	7	7	7	7	7	7		A	
	20	10284646	WHITE KEY/DFA	RJM502863-001V03	7	7	7	7	7	7	7	7	7	7	7	7		A	
	21	10151960	WHITE KEY/B	RJM502794-001V02	1	1	1	1	1	1	1	1	1	1	1	1		A	
N	22	10337003	WHITE KEY/SA	RJM502795-003V03	1	1	1	1	1	1	1	1	1	1	1	1		A	
N	23	10337004	WHITE KEY/SC	RJM502796-003V03	1	1	1	1	1	1	1	1	1	1	1	1		A	
N	24	10341062	HAMMER ASSY/W1	TK-RJM509600*001	13	13	13	13	13	13	13	13	13	13	13	13		C	
N	25	10341063	HAMMER ASSY/W2	TK-RJM509601*001	13	13	13	13	13	13	13	13	13	13	13	13		C	
N	26	10341064	HAMMER ASSY/W3	TK-RJM509602*001	13	13	13	13	13	13	13	13	13	13	13	13		C	
N	27	10341065	HAMMER ASSY/W4	TK-RJM509603*001	13	13	13	13	13	13	13	13	13	13	13	13		C	

1:	PX-130BK_DI	5:	PX-130WE_DI	9:	PX-130RD_DI
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3:	PX-130BK_UK	7:	PX-130WE_UK	11:	PX-130RD_UK
4:	PX-130BK_US	8:	PX-130WE_US	12:	PX-130RD_US

N	Item	Code No.	Parts Name	Specification	Q'ty												Price Code	R	Remarks
					1	2	3	4	5	6	7	8	9	10	11	12			
N	28	10341066	HAMMER ASSY/B1	TK-RJM509604*001	9	9	9	9	9	9	9	9	9	9	9	9		C	
N	29	10341067	HAMMER ASSY/B2	TK-RJM509605*001	9	9	9	9	9	9	9	9	9	9	9	9		C	
N	30	10341068	HAMMER ASSY/B3	TK-RJM509606*001	9	9	9	9	9	9	9	9	9	9	9	9		C	
N	31	10341069	HAMMER ASSY/B4	TK-RJM509607*001	9	9	9	9	9	9	9	9	9	9	9	9		C	
N	32	10138691	FELT/L	RJM503562-001V01	1	1	1	1	1	1	1	1	1	1	1	1		X	
N	33	10334393	FELT/HAM U	RJM509655-001V01	1	1	1	1	1	1	1	1	1	1	1	1		X	
	34	10294093	FELT ASSY/HAM L	TK-RJM507910*001	1	1	1	1	1	1	1	1	1	1	1	1		X	
N	35	10388000	PLATE	RJM510952-001V01	2	2	2	2	2	2	2	2	2	2	2	2		X	
N	36	10343387	FABRIC TAPE	RJM510100-001V01	1	1	1	1	1	1	1	1	1	1	1	1		X	
N	37	10340855	FELT/L	RJM510067-001V01	1	1	1	1	1	1	1	1	1	1	1	1		X	
N	38	10347077	KEY UNIT	TK-RJM510156*002	1	1	1	1	1	1	1	1	1	1	1	1		B	KY-ASSY
	39	69287160	SPONGE/50X180	M440961-1	2	2	2	2	2	2	2	2	2	2	2	2		X	
		CASE UNIT																	
N	40	10342855	PANEL ASSY	TK-RJM509613*001	1	1	1	1										X	
N	40	10342856	PANEL ASSY	TK-RJM509613*002					1	1	1	1						X	
N	40	10390556	PANEL ASSY	TK-RJM509613*003									1	1	1	1		X	
N	41	10341073	SP COVER ASSY	TK-RJM509617*001	2	2	2	2										X	
N	41	10341074	SP COVER ASSY	TK-RJM509617*002					2	2	2	2						X	
N	41	10390448	SP COVER ASSY	RJM509617*003V02									2	2	2	2		X	
	42	10175757	PACKING/10X386	RJM504743-001V01	2	2	2	2	2	2	2	2	2	2	2	2		X	
N	43	10341884	PANEL CASE	RJM509403-001V02	1	1	1	1										X	
N	43	10341885	PANEL CASE	RJM509403-002V02					1	1	1	1						X	
N	43	10390446	PANEL CASE	RJM509403-003V03									1	1	1	1		X	
N	44	10337034	SP NET	RJM509399-001V01	2	2	2	2										X	
N	44	10337035	SP NET	RJM509399-002					2	2	2	2						X	
N	44	10390447	SP NET	RJM509399-003V01									2	2	2	2		X	
N	45	10337081	FABRIC TAPE	RJM509592-001V01	2	2	2	2	2	2	2	2	2	2	2	2		X	
N	46	10336976	SPEAKER	C0612RJ01	2	2	2	2	2	2	2	2	2	2	2	2		X	
N	47	10342353	HARNESS	EF-EH2P031M900	1	1	1	1	1	1	1	1	1	1	1	1		X	
N	48	69263990	SPONGE/35X190	M440556-1	1	1	1	1	1	1	1	1	1	1	1	1		X	
	49	10309718	HARNESS	EH-2P-59-M334	1	1	1	1	1	1	1	1	1	1	1	1		X	
N	50	10336990	SPONGE/30X480	M410119-001V01	1	1	1	1	1	1	1	1	1	1	1	1		X	
N	51	10337938	FELT/KEY	RJM509922-001V01	1	1	1	1	1	1	1	1	1	1	1	1		X	
N	52	10337066	BUTTON/TACT/A	RJM509430-001V01	1	1	1	1					1	1	1	1		X	
N	52	10337067	BUTTON/TACT/A	RJM509430-002V01					1	1	1	1						X	
N	53	10337068	BUTTON/TACT/B	RJM509431-001V01	1	1	1	1					1	1	1	1		X	
N	53	10337069	BUTTON/TACT/B	RJM509431-002V01					1	1	1	1						X	

1: PX-130BK_DI 5: PX-130WE_DI 9: PX-130RD_DI
2: PX-130BK_EU 6: PX-130WE_EU 10: PX-130RD_EU
3: PX-130BK_UK 7: PX-130WE_UK 11: PX-130RD_UK
4: PX-130BK_US 8: PX-130WE_US 12: PX-130RD_US

N	Item	Code No.	Parts Name	Specification	Q'ty 1	2	3	4	5	6	7	8	9	10	11	12	Price Code	R	Remarks
N	54	10337059	LED COVER/A	RJM509418-001V01	3	3	3	3					3	3	3	3		X	
N	54	10337060	LED COVER/A	RJM509418-002V01					3	3	3	3						X	
N	55	10337061	LED COVER/C	RJM509420-001V01	2	2	2	2					2	2	2	2		X	
N	55	10337062	LED COVER/C	RJM509420-002V01					2	2	2	2						X	
N	56	10337063	LED SPACER/A	RJM509421-001V01	1	1	1	1	1	1	1	1	1	1	1	1		X	
N	57	10337064	LED SPACER/B	RJM509422-001V01	1	1	1	1	1	1	1	1	1	1	1	1		X	
N	58	10337065	LED SPACER/C	RJM509427-001V01	2	2	2	2	2	2	2	2	2	2	2	2		X	
N	59	10337080	FABRIC TAPE	RJM509590-001V01	1	1	1	1	1	1	1	1	1	1	1	1		X	
	60	10269765	KNOB/ROTARY	M341109-008V01	1	1	1	1					1	1	1	1		C	
N	60	10336989	KNOB/ROTARY	M341109-011V01					1	1	1	1						C	
	61	69245260	BUTTON/PW	M340318-1	1	1	1	1	1	1	1	1	1	1	1	1		C	
N	62	10334406	SWITCH	SDDLD1017U	1	1	1	1	1	1	1	1	1	1	1	1		C	Power switch
N	63	10342354	HARNESS	EF-EH3P065M900	1	1	1	1	1	1	1	1	1	1	1	1		X	
N	64	10187096	SPONGE/40X510	RJM505302-001V01	1	1	1	1	1	1	1	1	1	1	1	1		X	
N	65	10341075	PCB ASSY/HPA1	TK-RJM509834*001	1	1	1	1	1	1	1	1	1	1	1	1		X	HPA1 PCB
	J601,J602	10208979	CONNECTOR	JY-3567*01-070	2	2	2	2	2	2	2	2	2	2	2	2		B	Phones jack
	L601,L602	10231919	COIL	RB53-856396NP	2	2	2	2	2	2	2	2	2	2	2	2		X	
N	66	10337039	CASE/L	RJM509404-001V01	1	1	1	1										X	
N	66	10337041	CASE/L	RJM509404-003V01					1	1	1	1						X	
N	66	10390445	CASE/L	RJM509404-005V01									1	1	1	1		X	
N	67	10337042	CASE/R	RJM509405-001V01	1	1	1	1										X	
N	67	10337044	CASE/R	RJM509405-003V01					1	1	1	1						X	
	67	10363263	CASE/R	RJM509405-004V01									1	1	1	1		X	
N	68	10337045	CASE/IL	RJM509406-001V01	1	1	1	1										X	
N	68	10337047	CASE/IL	RJM509406-003V01					1	1	1	1						X	
	68	10337046	CASE/IL	RJM509406-002V01									1	1	1	1		X	
N	69	10337048	CASE/IR	RJM509407-001V01	1	1	1	1										X	
N	69	10337050	CASE/IR	RJM509407-003V01					1	1	1	1						X	
	69	10337049	CASE/IR	RJM509407-002V01									1	1	1	1		X	
N	70	10337052	L COVER	RJM509409-001V01	8	8	8	8					8	8	8	8		X	
N	70	10337053	L COVER	RJM509409-002V01					8	8	8	8						X	
N	71	10133655	RUBBER FOOT	RJM503180-001V01	5	5	5	5	5	5	5	5	5	5	5	5		X	
	72	10201509	BRACKET/B	RJM505932-001V01	2	2	2	2	2	2	2	2	2	2	2	2		X	
N	73	10201510	BRACKET/C	RJM505933-001V01	4	4	4	4	4	4	4	4	4	4	4	4		X	
N	74	10341078	CASE ASSY/LOWER	TK-RJM509634*001	1	1	1	1										X	
N	74	10341079	CASE ASSY/LOWER	TK-RJM509634*003					1	1	1	1						X	
N	74	10390557	CASE ASSY/LOWER	TK-RJM509634*004									1	1	1	1		X	
N	75	10337013	LABEL/RATING	RJM504373-026V01					1	1	1	1						X	
N	75	10390443	LABEL/RATING	RJM504373-047V02									1	1	1	1		X	

1: PX-130BK_DI
2: PX-130BK_EU
3: PX-130BK_UK
4: PX-130BK_US

5: PX-130WE_DI
6: PX-130WE_EU
7: PX-130WE_UK
8: PX-130WE_US

9: PX-130RD_DI
10: PX-130RD_EU
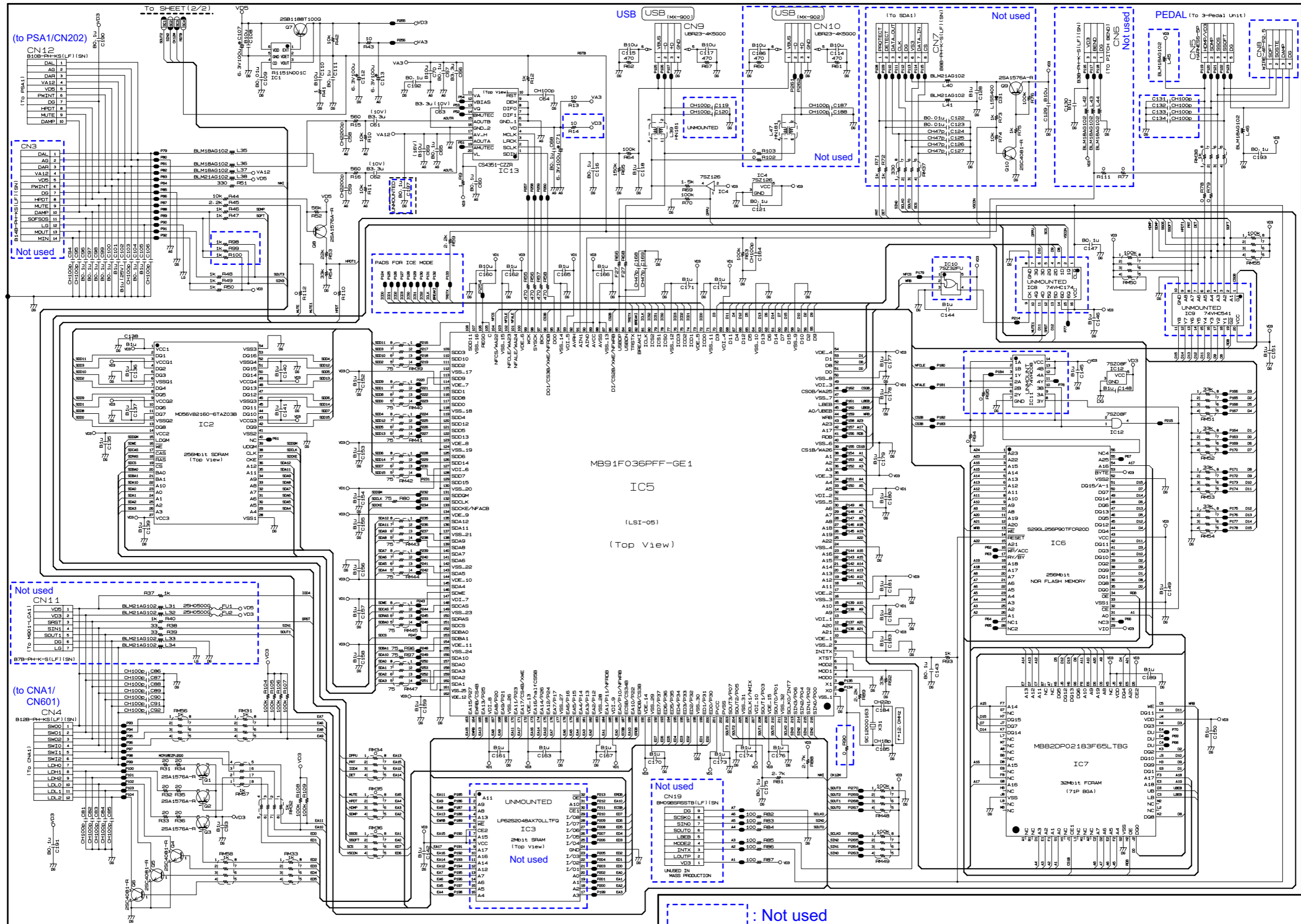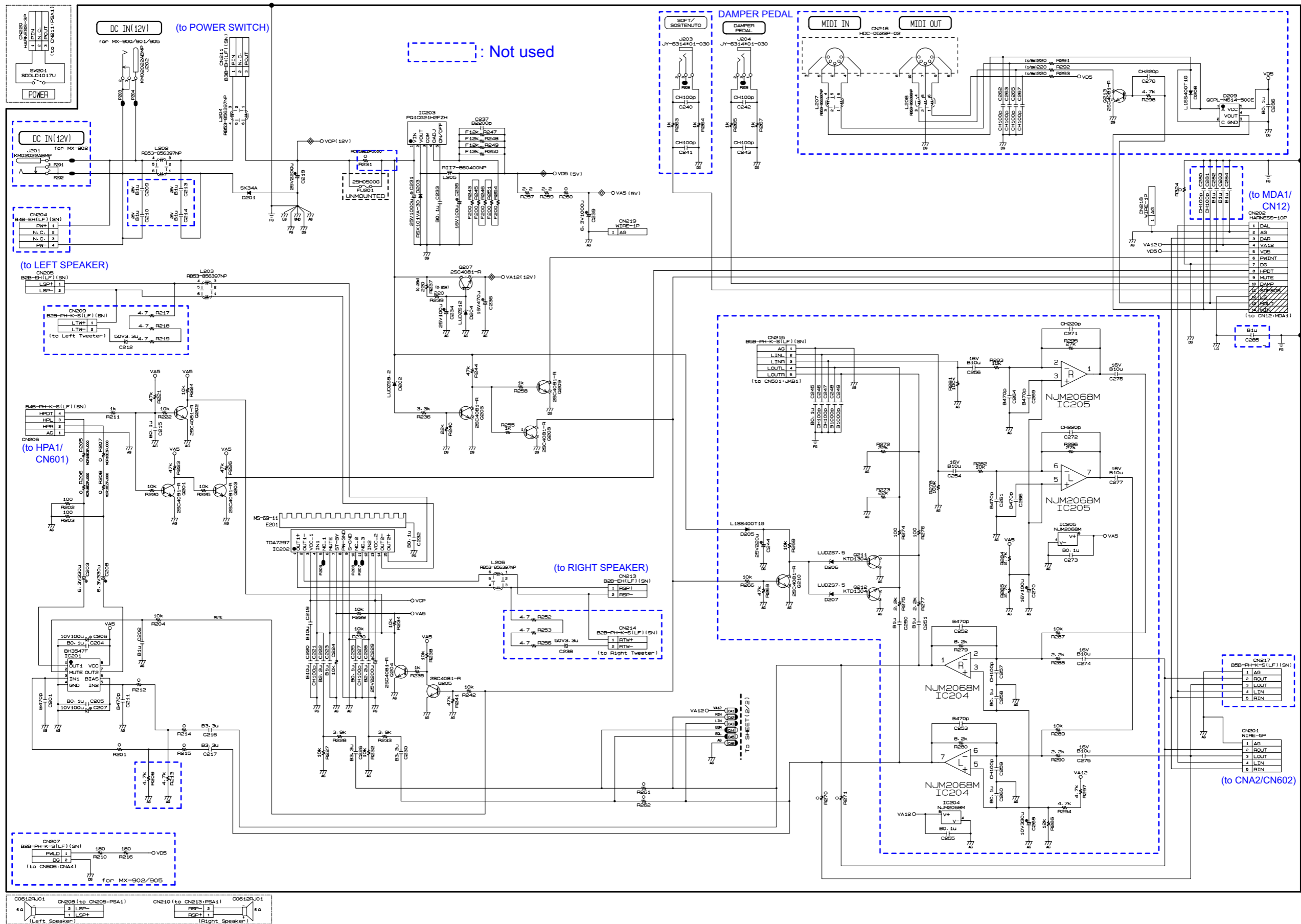11: PX-130RD_UK
12: PX-130RD_US

N	Item	Code No.	Parts Name	Specification	1	2	3	4	5	6	7	8	9	10	11	12	Price Code	R	Remarks
									Q'ty										
		ACCESSORIES																	
	-	10133504	FINAL-ASSY(PEDAL)	TK-RJM503195*001	1	1	1	1	1	1	1	1	1	1	1	1		X	Pedal
N	-	10341080	ADAPTOR-ASSY	TK-RJM509860*001				1				1						C	for US (X-5 & X-6)
N	-	10341081	ADAPTOR-ASSY	TK-RJM509860*002		1				1								C	for EU (X-5 & X-7)
N	-	10341082	ADAPTOR-ASSY	TK-RJM509860*003			1				1							C	for UK (X-5 & X-8)
N	-	10336165	AC-ADAPTOR	AD-A12150LW-F1	1	1	1	1	1	1	1	1						A	without AC PLUG
N	-	10332921	AC-PLUG	TEU-001-CASIO	1			1	1			1						A	US type
	-	10323563	AC-PLUG	TEV-001	1	1			1	1								A	EU type
	-	10323564	AC-PLUG	TEB-001			1				1							A	UK type
	-	10324713	AC-PLUG	TEA-001	1				1									A	Australia type
N	-	10334407	AC-PLUG	TEK-001	1				1									A	Korea type
	-	10370278	AC-ADAPTOR	AD-A12150LW-F2C	1	1	1	1	1	1	1	1	1	1	1	1		B	without CORD
	-	10361066	CORD	UC2LT-M006A	1			1	1			1	1			1		X	US type
	-	10361067	CORD	EC2LT-M002A	1	1			1	1			1	1				X	EU type
	-	10361068	CORD	KC2LT-M002A	1				1				1					X	Korea type
	-	10361069	CORD	AUC2LT-M002A	1				1				1					X	Australia type
	-	10361070	CORD	BC2LT-M002A			1				1				1			X	UK type
N	-	10342718	MUSIC-STAND-M810	RJM508666-001V04	1	1	1	1					1	1	1	1		C	
N	-	10342719	MUSIC-STAND-M900B	RJM508666-002V04					1	1	1	1						C	
	-	10209207	DUST-COVER	RJM506261-001V01	1				1				1					X	

SCHEMATIC DIAGRAMS

Main PCB M900-MDA1 (1/2)

To SHEET(1/2)

Not used

: Not used

IC14

UPD65943GK-F659EUA

(GA-08)

CN2
20PN2-BT(LF)(SN)
(to KYD1/CN802)

CN1
30PN2-BT(LF)(SN)
(to KYB1/CN804)

Not used
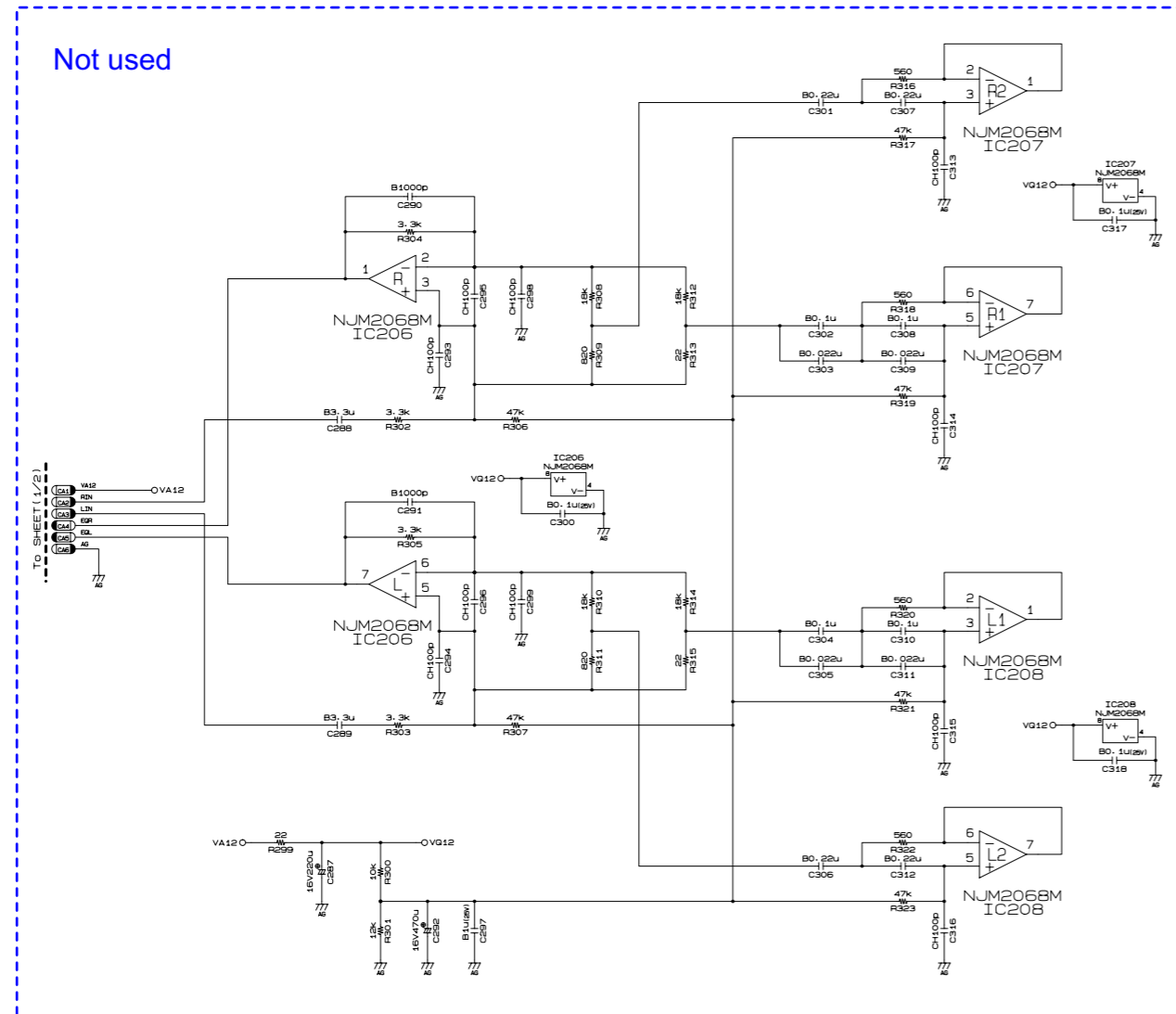
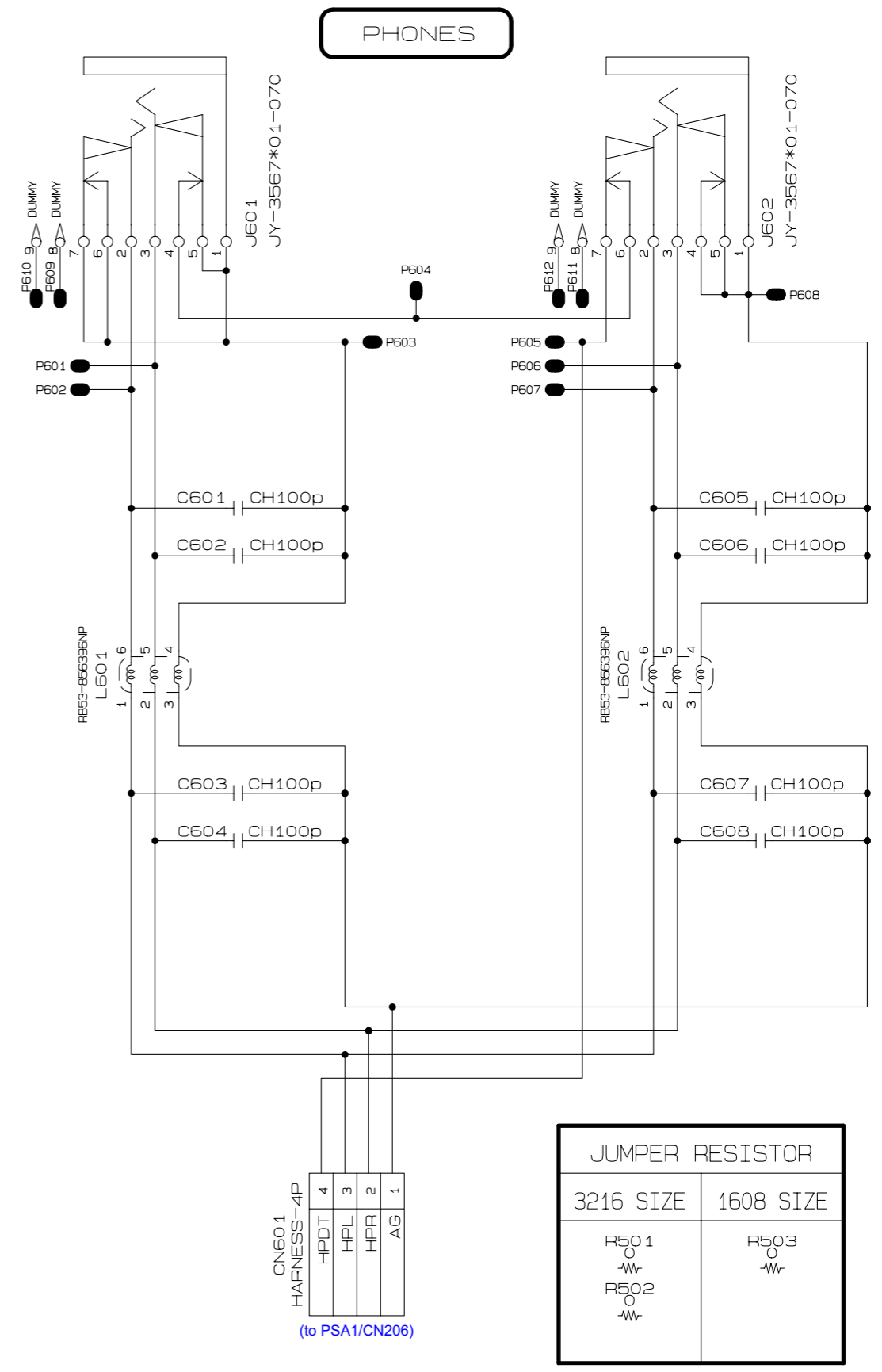## JUMPER RESISTOR

1608 SIZE	3216 SIZE

: Not used

Console PCB M900-CNA1
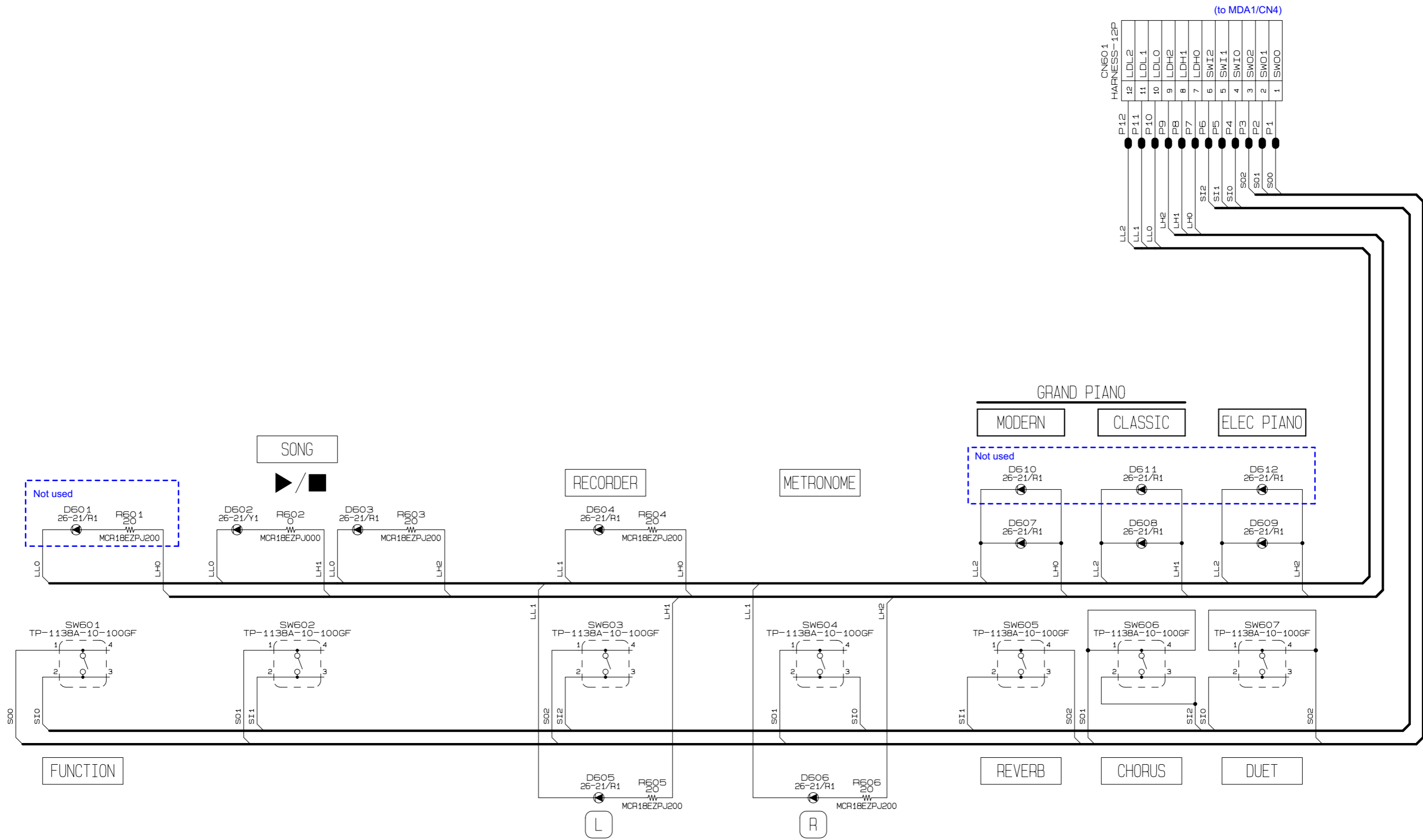
Volume PCB M900-CNA2

Jack PCB M900-HPA1

PHONES

(to PSA1/CN201)

CN602
WIRE-5P

1	AG
2	ROUT
3	LOUT
4	LIN
5	RIN

P13 P14 P15

Not used

CN603
HARNESS-5P

1	AG
2	ROUT
3	LOUT
4	LIN
5	RIN

(to CN217:PSA1)

777 AG

777 AG

RK09K12COD1B
VR601

VOLUME

J601
JY-3567*01-070

J602
JY-3567*01-070

P610 9 DUMMY
P609 8 DUMMY

P612 9 DUMMY
P611 8 DUMMY

P604

P608

P603

P601
P602

P605
P606
P607

C601 CH100p
C602 CH100p

C605 CH100p
C606 CH100p

R53-85639GNP
L601

R53-85639GNP
L602

C603 CH100p
C604 CH100p

C607 CH100p
C608 CH100p

CN501
HARNESS-4P

4	HPDT
3	HPL
2	HPR
1	AG

(to PSA1/CN206)

JUMPER RESISTOR	
3216 SIZE	1608 SIZE
R501	R503
R502	

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Keyboard PCB MACP-KYA1

PWB—MACP—KYA1

14pin_WIRE
CN601
(to KYA2/CN602)

A0　A0#　B0　C1　C1#　D1　D1#　E1　F1　F1#　G1　G1#　A1　A1#　B1　C2　C2#　D2　D2#　E2　F2

Keyboard PCB MACP-KYA2

PWB—MACP—KYA2
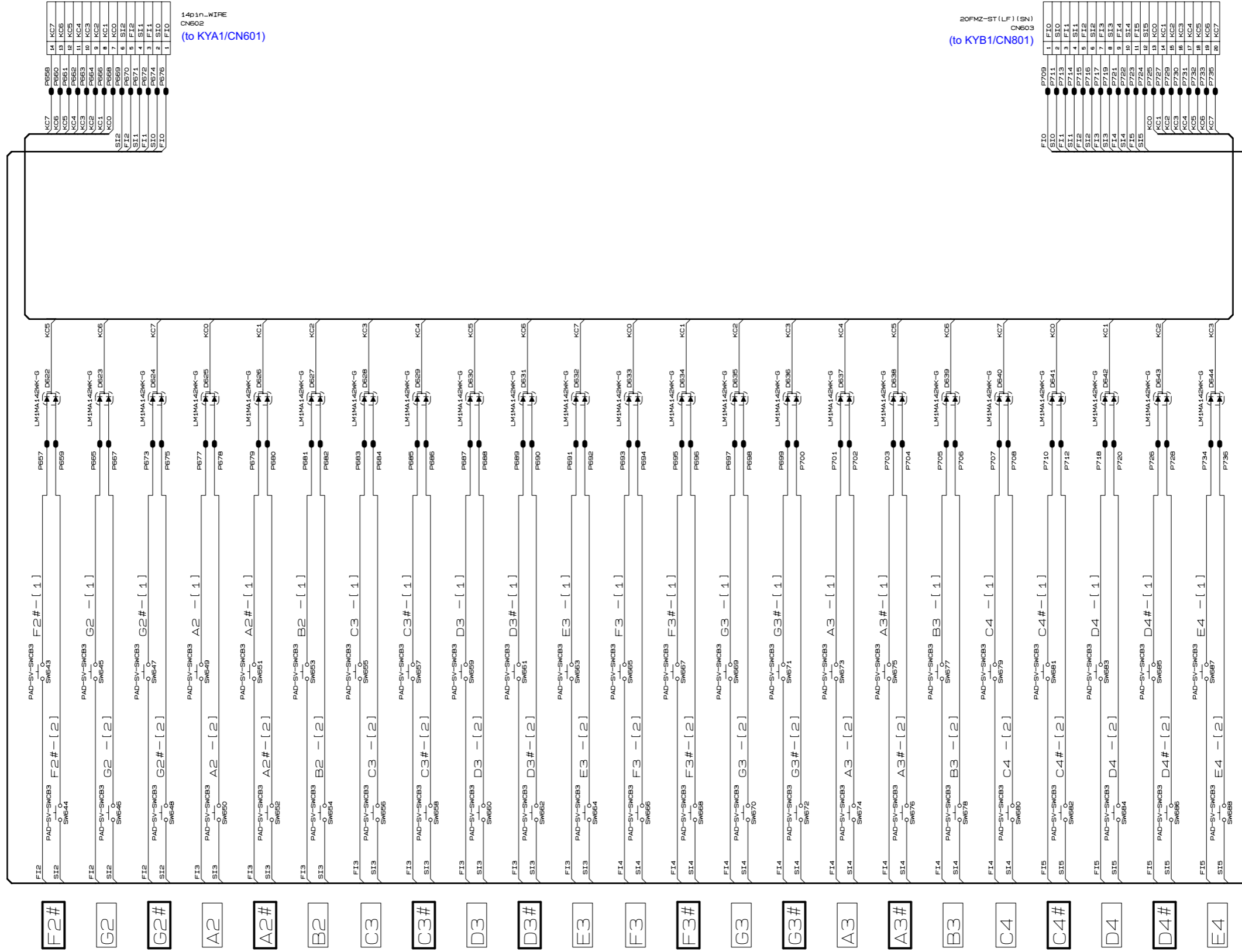
Keyboard PCB MACP-KYB1

PWB-MACP-KYB1

Keyboard PCB MACP-KYB2

PWB-MACP-KYB2

14pin_WIRE
CN803
(to KYB1/CN802)

– 56 –

PWB-MACP-KYC1

12pin_WIRE
CN501
(to KYD1/CN801)

Keyboard PCB MACP-KYC2

PWB-MACP-KYC2

12pin_FFC
CN602

KI10	1	P641 KI-10
KI9	2	P642 KI-9
KI8	3	P643 KI-8
KI7	4	P644 KI-7
KO7	5	P645 KO-7
KO6	6	P646 KO-6
KO5	7	P647 KO-5
KO4	8	P648 KO-4
KO3	9	P649 KO-3
KO2	10	P650 KO-2
KO1	11	P651 KO-1
KO0	12	P652 KO-0

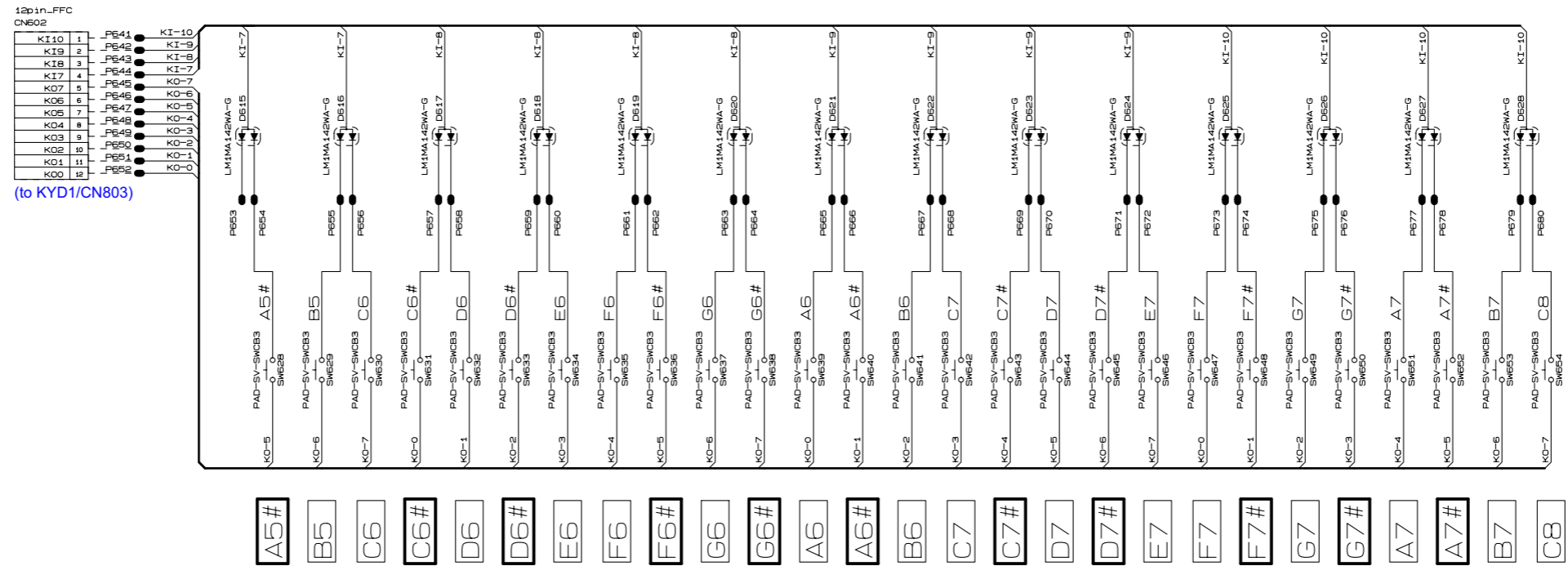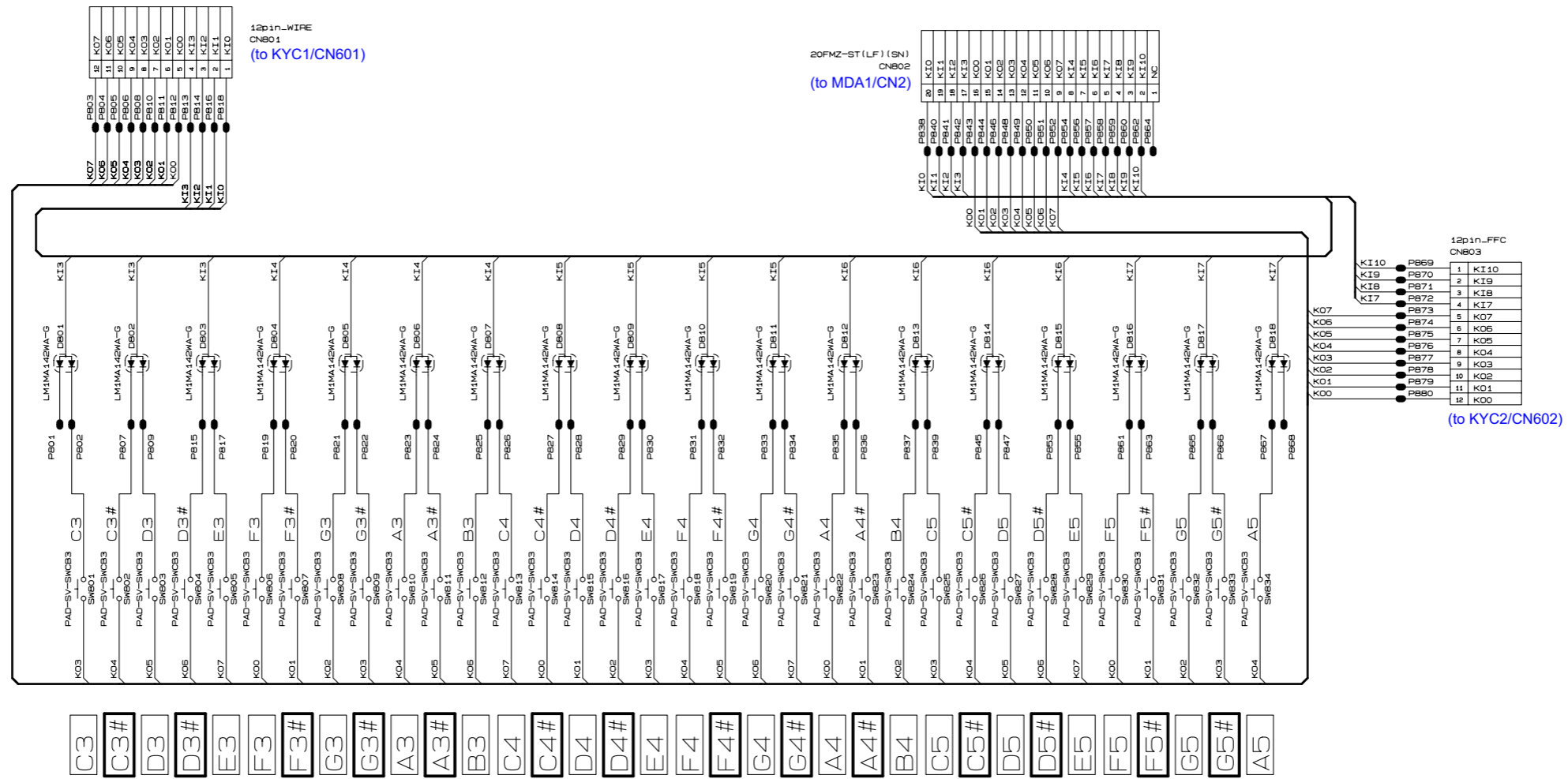**Keyboard PCB MACP-KYD1**
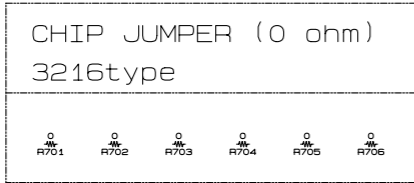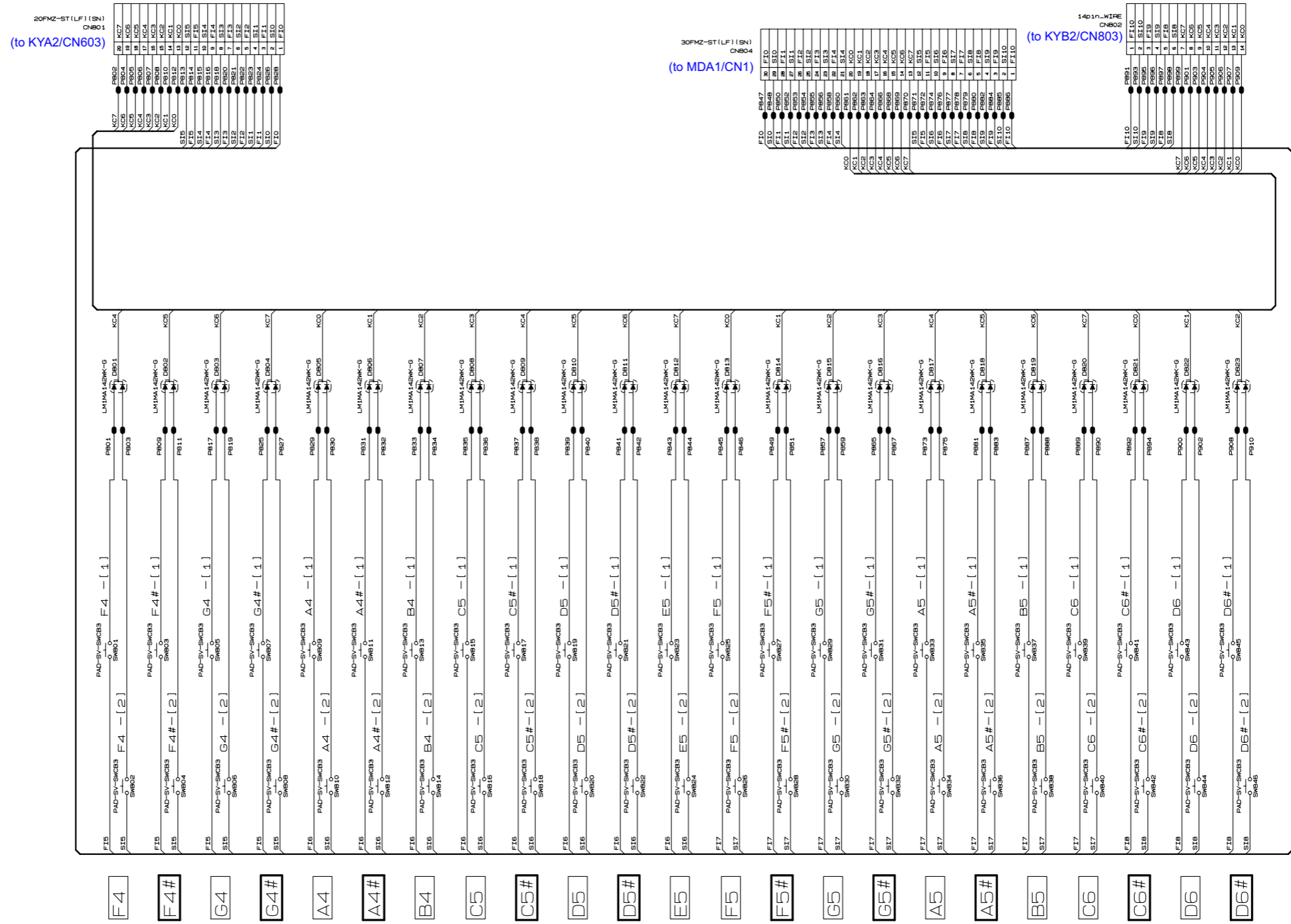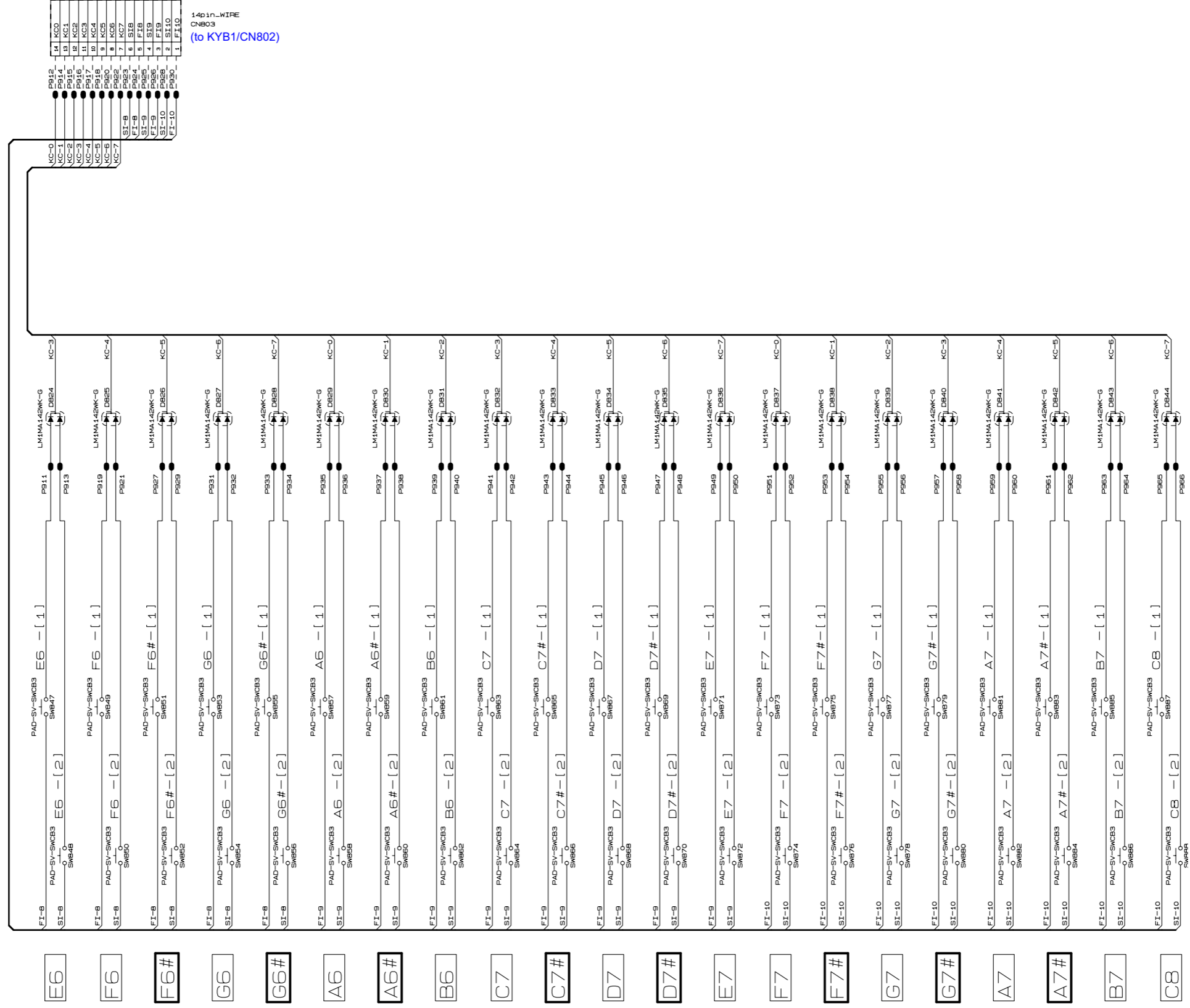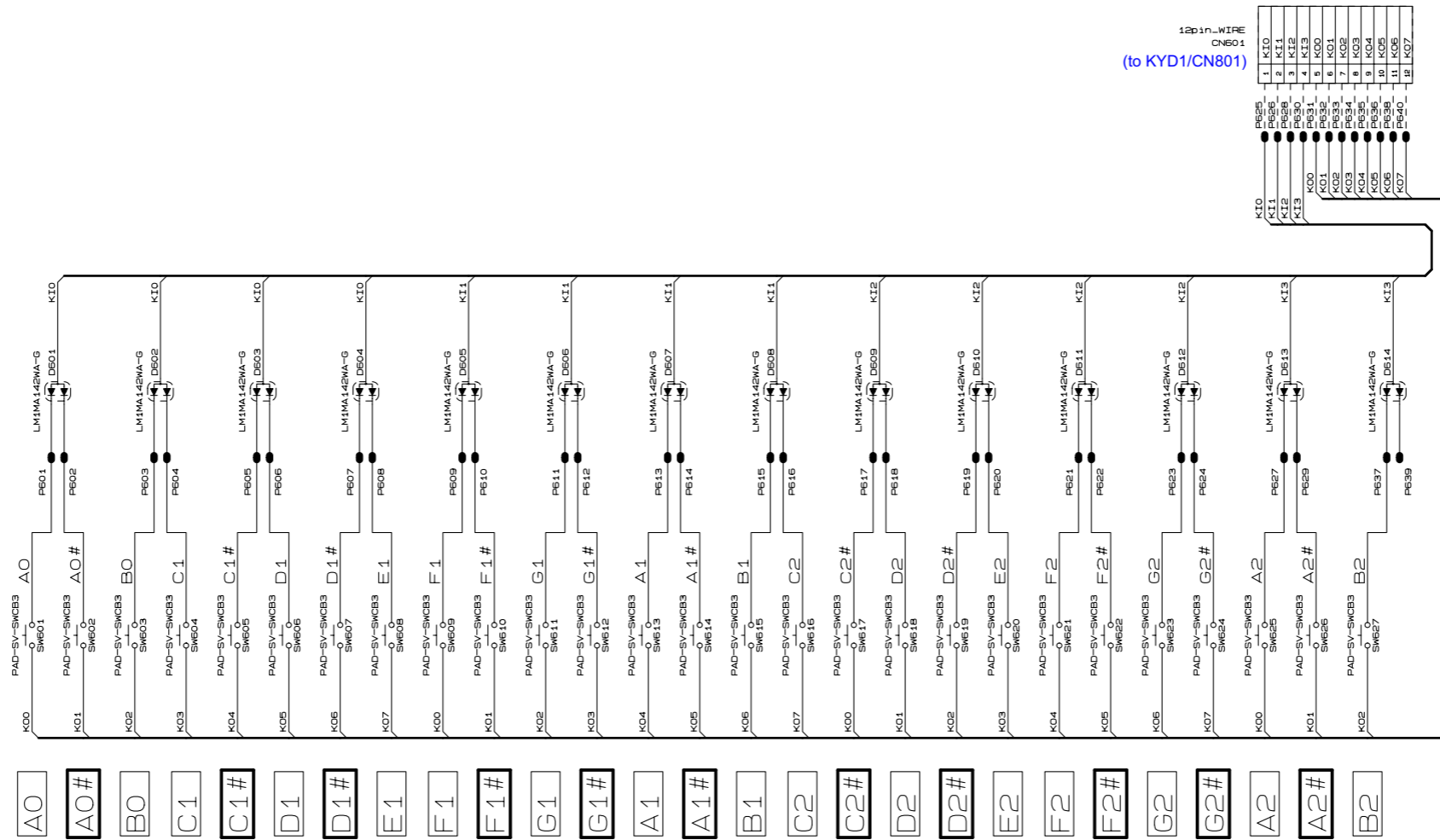
PWB-MACP-KYD1

CHIP JUMPER (0 ohm)

3216type

R801 R802 R803

Ver. 1 : Sep. 2009
        • Correction of the DIAGNOSTIC PROGRAM (P35)

Ver. 2 : Sep. 2009
        • Correction of the DISASSEMBLY (P22)

Ver. 3 : Oct. 2009
        • Correction of the CONTENTS
        • Correction of the DISASSEMBLY (P28, P30)
        • Correction of the DIAGNOSTIC PROGRAM (P38)
        • Correction of the PARTS LIST (P43 and P44)

Ver. 4 : Nov. 2009
        • Correction of the DISASSEMBLY (P23)

Ver. 5 : Jan. 2011
        • Addition of the new model (PX-130RD)
        • Correction of the CONTENTS
        • Correction of the DISASSEMBLY (P21 to P24, P29 and P30)
        • Correction of the DIAGNOSTIC PROGRAM (P32, P34, P35 and P38)
        • Correction of the EXPLODED VIEW (P39 and P40)
        • Correction of the PARTS LIST (P41 to P46)