

CASIO®

SERVICE MANUAL

& PARTS LIST (without price)

PX-330BK/**PX-330WE**

AUG. 2009/**SEP. 2011**



PX-330BK

ELECTRONIC KEYBOARD

Ver. 5 : Sep. 2011

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SPECIFICATIONS

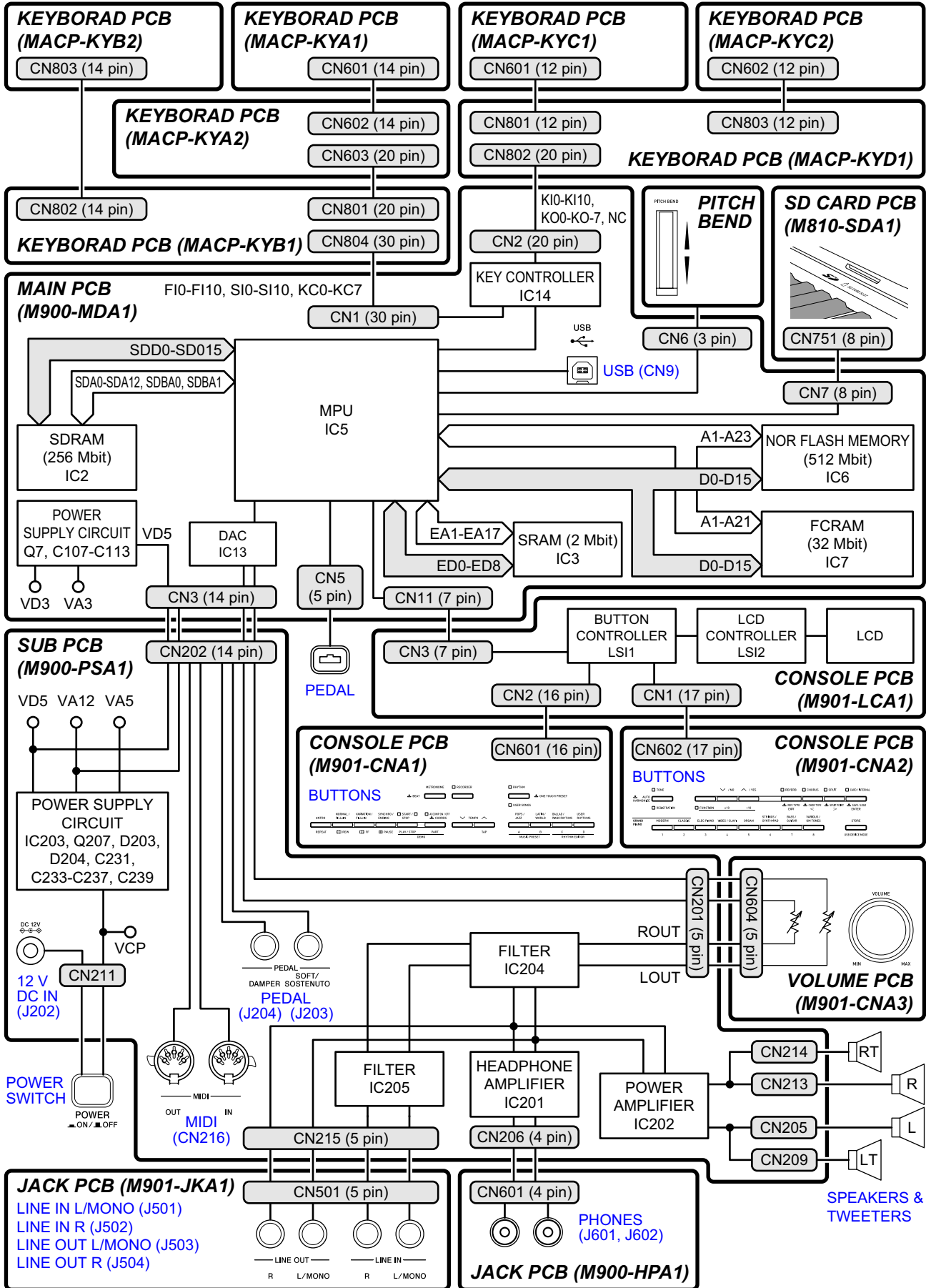
Keyboard	88-key piano keyboard, with Touch Response (3 types)
Maximum Polyphony	128 notes
Tones	250 (with Layer and Split)
Effects	Reverb (4 types), Chorus (4 types), Brilliance (-3 to 0 to 3), Acoustic Resonance
Metronome	Beats per measure: 0, 2, 3, 4, 5, 6 Tempo Range: 20 to 255
Duet	Adjustable tone range: 0 to 3 octaves for the left keyboard; -4 to -1 octaves for the right keyboard
Auto Accompaniment	Built-in Rhythms: 180 User Rhythms: Up to 10 (Approximately 40 KB* maximum per rhythm) One Touch Presets: 180 types Auto Harmonize: 12 types
Demo Songs	8 songs (tone demo songs)
User Songs	Up to 10 songs (320 KB* maximum per song)
Music Presets	Built-in Presets: 300 User Presets: Up to 50 (Approximately 8 KB* maximum per preset)
Registration	(4 rhythm areas + 8 tone areas) × 8 banks
Recorder	Functions: Real-time recording, playback Number of Songs: 5 Number of Tracks: 17 (System Track + Tracks 01 through 16) Capacity: Approximately 50,000 notes total (Up to approximately 10,000 notes per song) Punch-in recording
Pedals	Damper, Soft/Sostenuto (switchable)
Other Functions	Transpose: ±1 octave (-12 to 00 to 12) Tuning: A4 = 440.0 Hz ±99 cents Octave Shift: ±2 octaves Temperaments: 17 types Stretch Tune Panel Lock
MIDI	16 multi-timbre received, GM Level 1 standard
Pitch Bend Wheel	Pitch Bend Range: 00 to 12 semitones
SD Memory Card	SD memory card slot Supported SD Memory Cards: Up to 2 GB Functions: SMF playback, file storage, file recall, card format
Inputs/Outputs	PHONES jacks: Stereo mini jacks × 2 Pedal Jacks: Standard jacks × 2 MIDI OUT/IN terminals LINE OUT R, L/MONO jacks: Standard jacks × 2 Output impedance: 2.3 KΩ Output voltage: 1.8 V (RMS) MAX LINE IN R, L/MONO jacks: Standard jacks × 2 Input impedance: 9.0 KΩ Input voltage: 200 mV Power: 12 V DC USB port: Type B Pedal connector (for optional SP-32 only)

Speakers	[13 cm × 6 cm (rectangular)] × 2 + φ 5 cm × 2 (Output: 8.0 W + 8.0 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 11.6 kg (25.6 lbs)

* Based on 1 KB = 1024 bytes, 1 MB = 1024² bytes

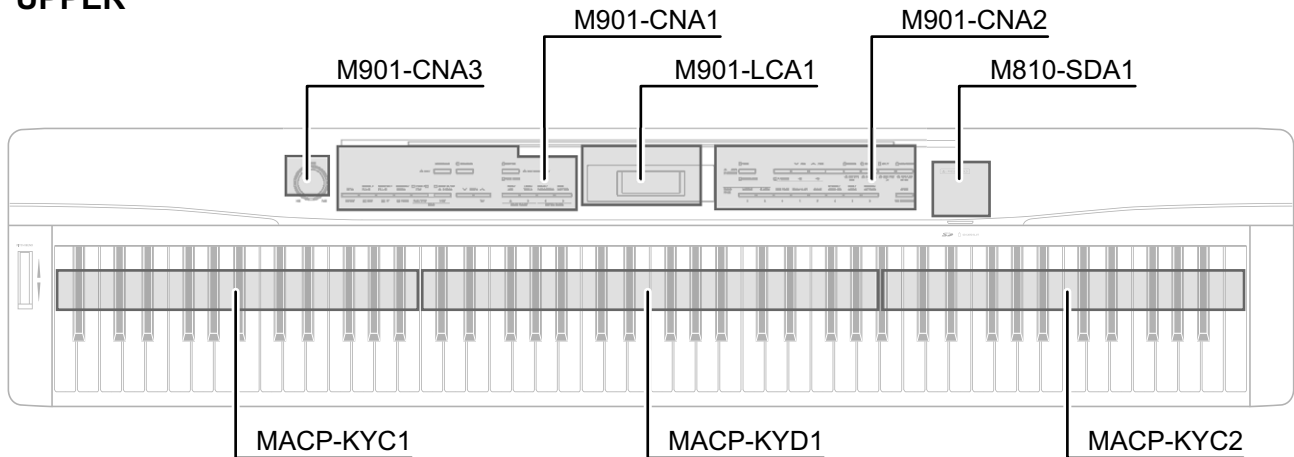
* Specifications and designs are subject to change without notice.

BLOCK AND WIRING DIAGRAM

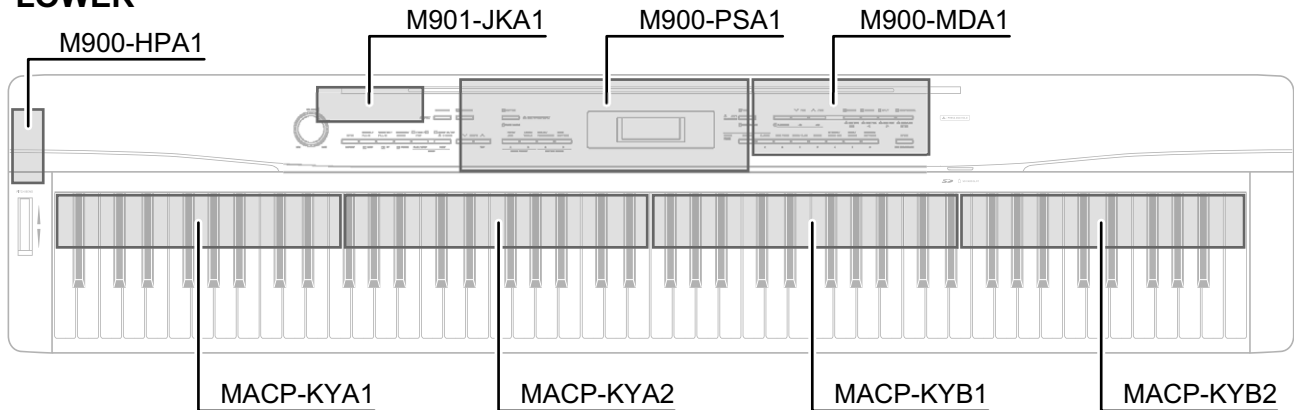


PCB LAYOUT

UPPER



LOWER



PCBs		Components	
Main PCB	M900-MDA1	MPU, Reset IC, SDRAM (256 Mbit), Flash Memory (512 Mbit), FCRAM (32 Mbit), SRAM (2 Mbit), Power Supply Circuit, Key Controller, USB Port, Pitch Bend	
Sub PCB	M900-PSA1	DC 12 V Terminal, Power Supply Circuit, Filter, Power Amplifier, Pedal Jacks, MIDI Jacks	
Console PCBs	M901-LCA1	LCD, LCD Controller, Button Controller	
	M901-CNA1	Buttons	
	M901-CNA2	Buttons	
Volume PCB	M901-CNA3	Main Volume	
Jack PCBs	M901-JKA1	LINE IN Jacks, LINE OUT Jacks	
	M900-HPA1	PHONES Jacks	
SD Card PCB	M810-SDA1	SD Card Slot	
Keyboard PCBs	MACP-KYA1	MACP-KYC1	Keyboard
	MACP-KYA2	MACP-KYC2	
	MACP-KYB1	MACP-KYD1	
	MACP-KYB2		

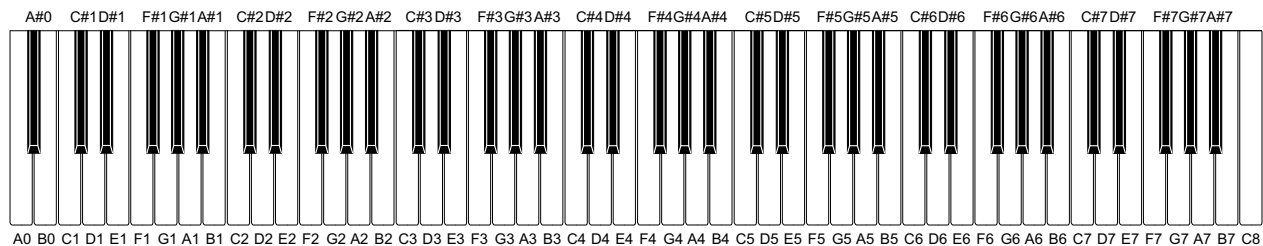
CIRCUIT DESCRIPTION

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

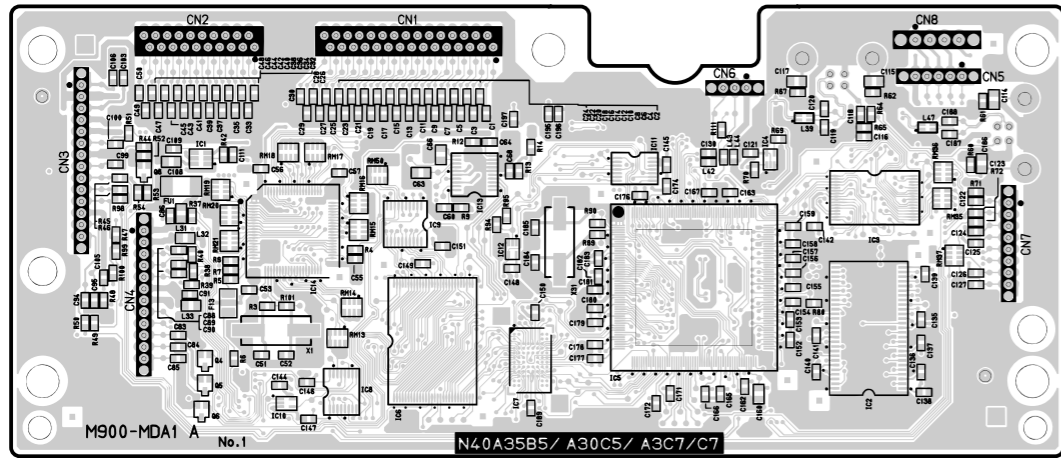
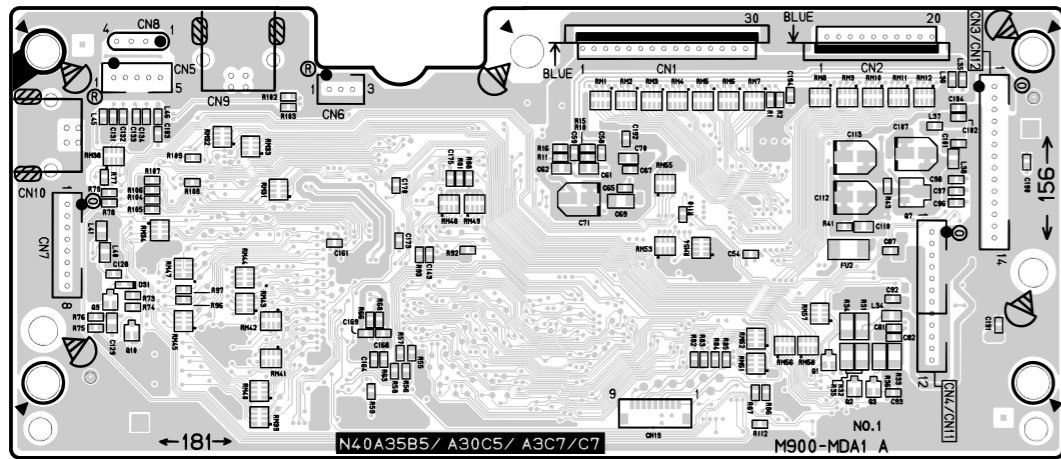


BUTTON MATRIX

	KC0	KC1	KC2	KC3
KI0	INTRO/REPEAT	START/STOP, PLAY/STOP	VARIATION/FILL-IN, ▶▶ FF	TEMPO DOWN
KI1	ACCOMP ON/OFF, PART	NORMAL/FILL-IN, ◀◀ REW	TEMPO UP	SYNCHRO/ENDING, PAUSE
KI2	RECORDER	POPS/JAZZ, MUSIC PRESET	RHYTHM, USER SONGS	BALLAD/ PIANO RHYTHMS, RHYTHM EDITOR
KI3	LATIN/WORLD, MUSIC PRESET	METRONOME	USER RHYTHMS, RHYTHM EDITOR	—

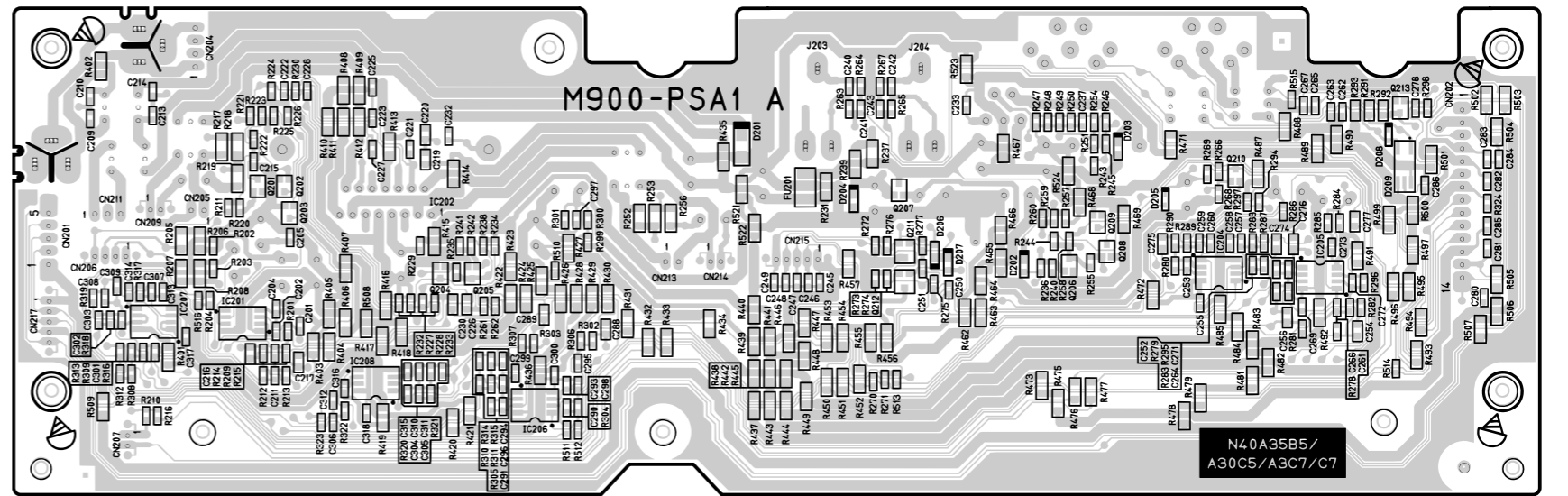
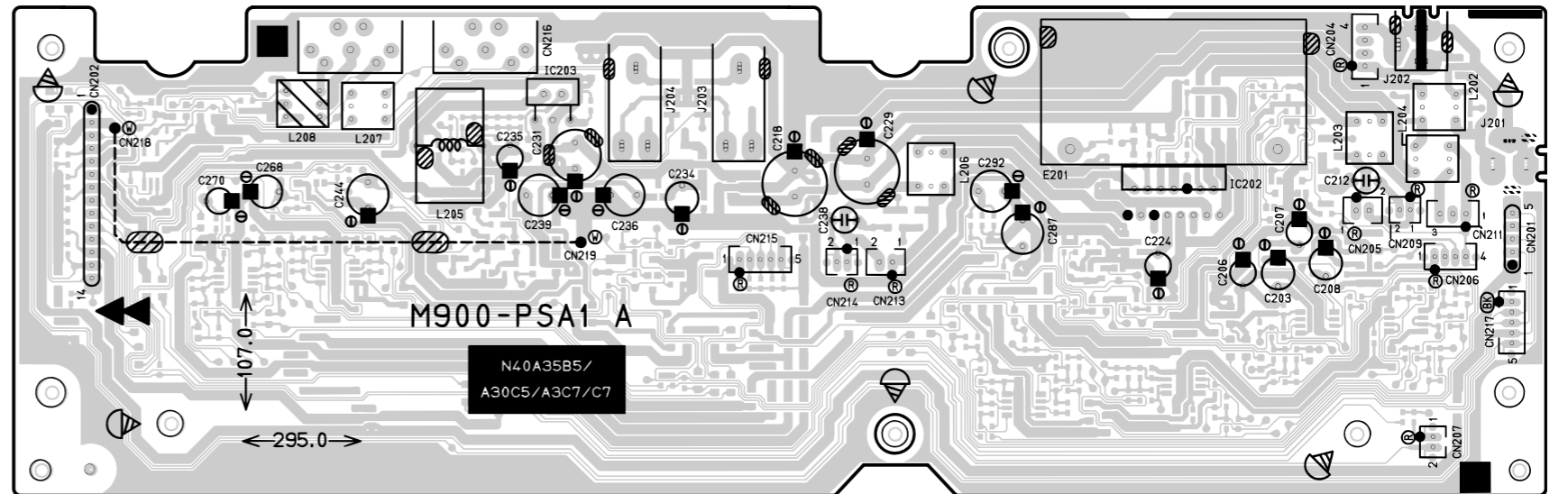
	2KC0	2KC1	2KC2	2KC3	2KC4
2KI4	GRAND PIANO (MODERN)	ORGAN	ELEC PIANO	BASS/GUITAR	STORE, USB DEVICE MODE
2KI5	STRINGS/ SYNTH-PAD	GRAND PIANO (CLASSIC)	VARIOUS/ GM TONES	VIBES/CLAVI	—
2KI6	TONE, REGISTRATION	REVERB, REV TYPE, EXIT	v / NO	SPLIT, SPLIT POINT, >	—
2KI7	CHORUS, CHOR TYPE, <	FUNCTION	CARD/INTERNAL, SAVE/LOAD, ENTER	^ / YES	—

Main PCB M900-MDA1

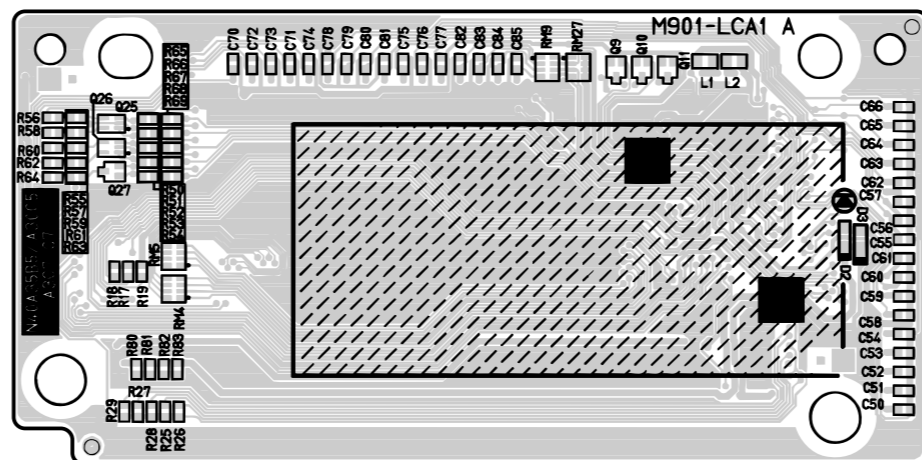
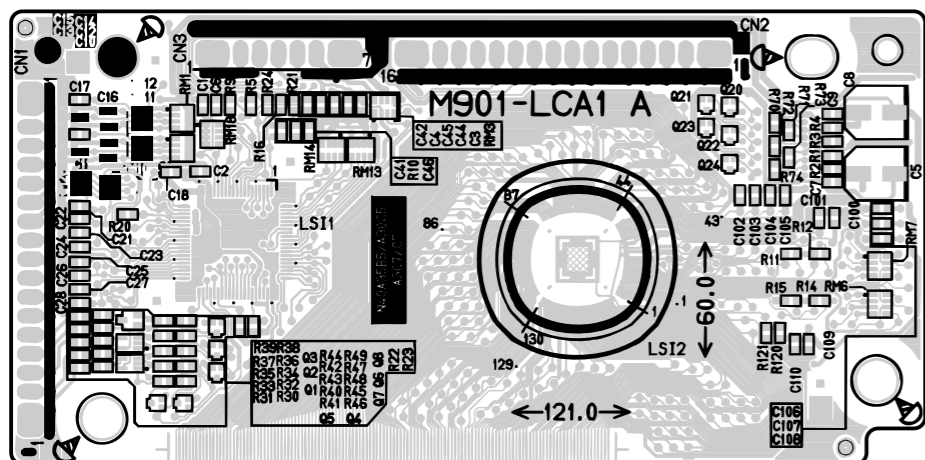


PRINTED CIRCUIT BOARDS

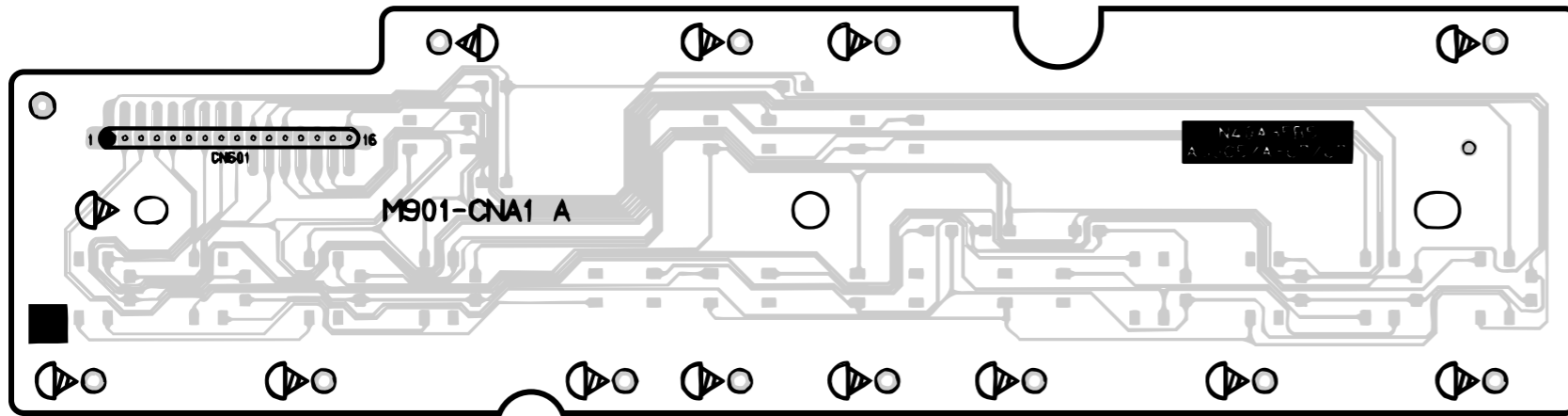
Sub PCB M900-PSA1



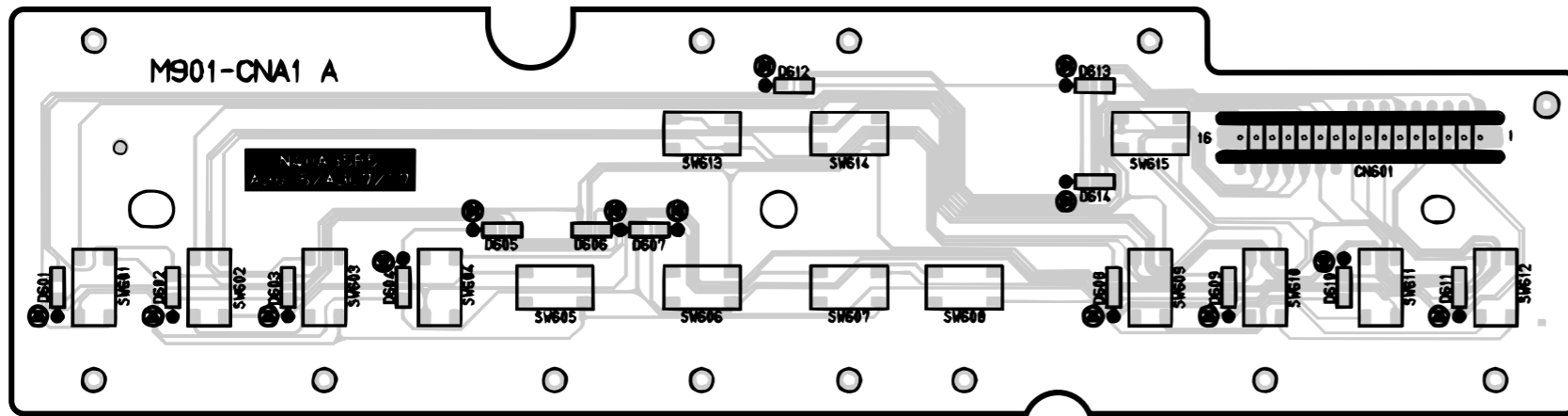
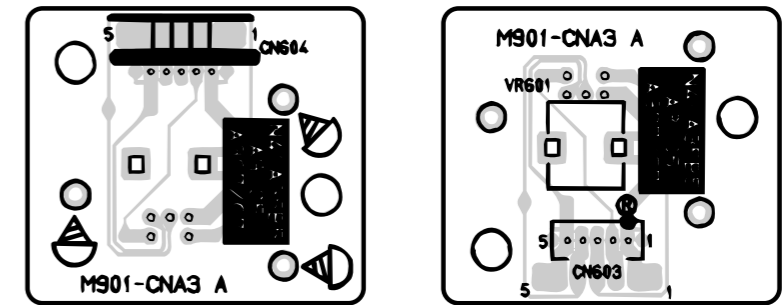
Console PCB M901-LCA1



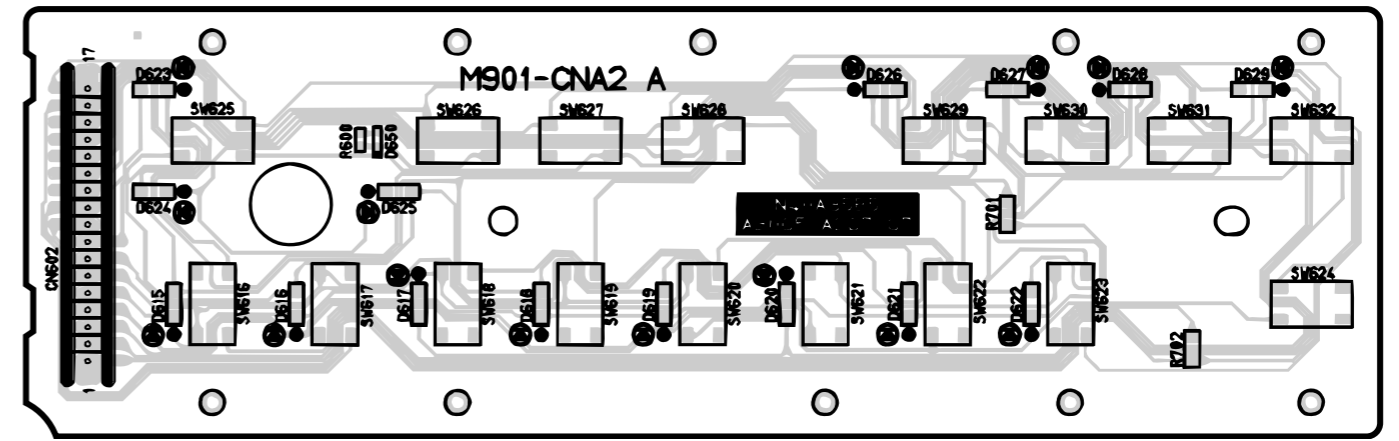
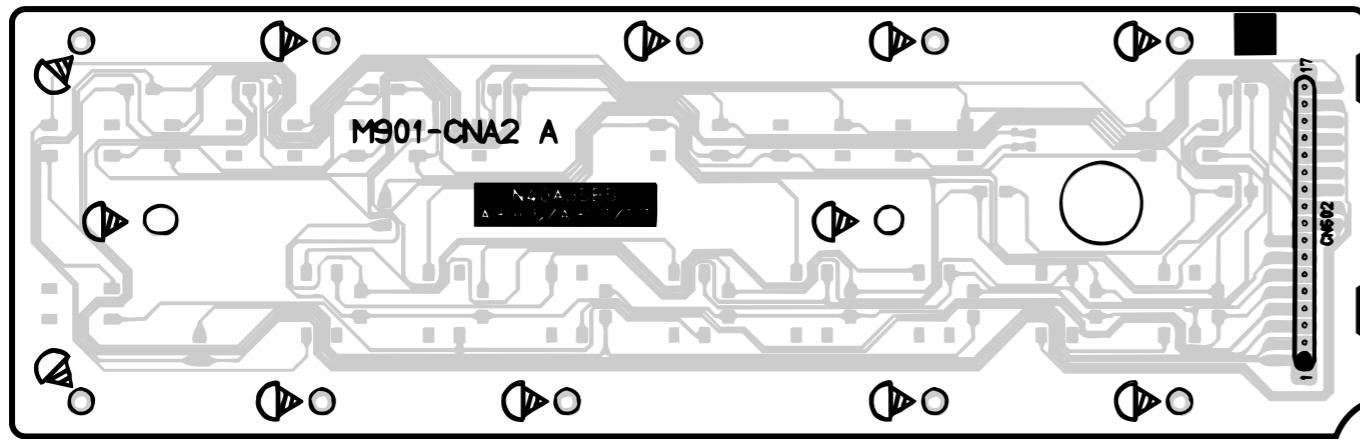
Console PCB M901-CNA1



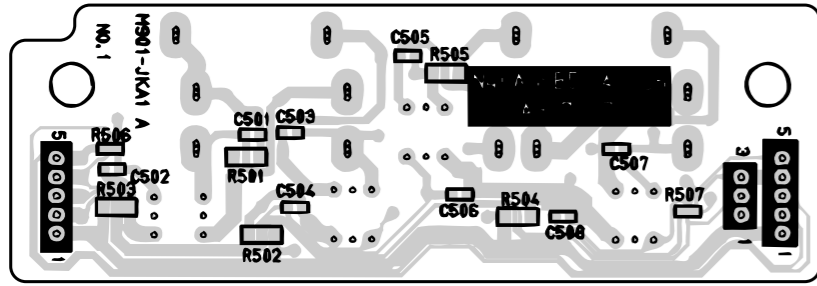
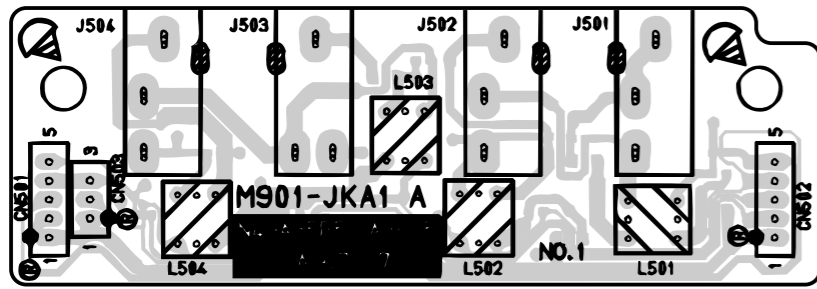
Console PCB M901-CNA3



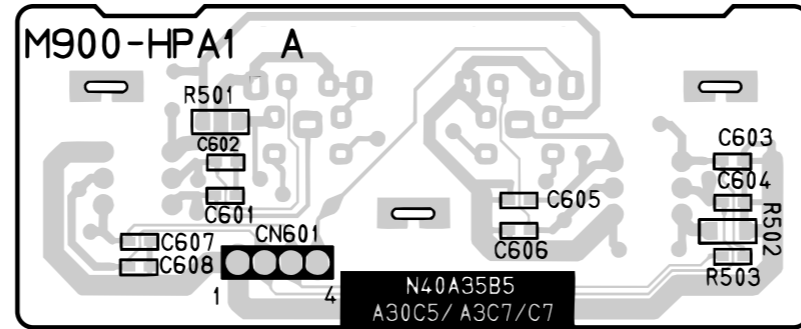
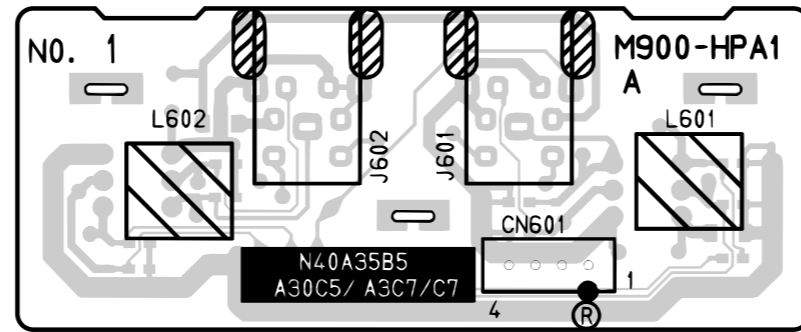
Console PCB M901-CNA2



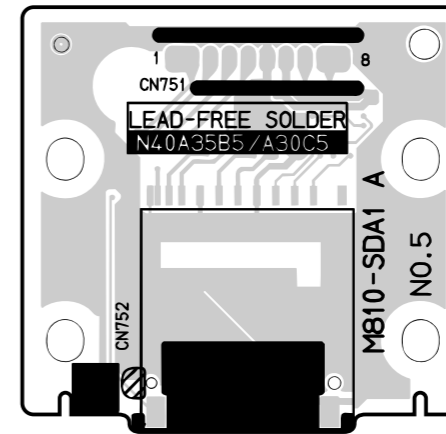
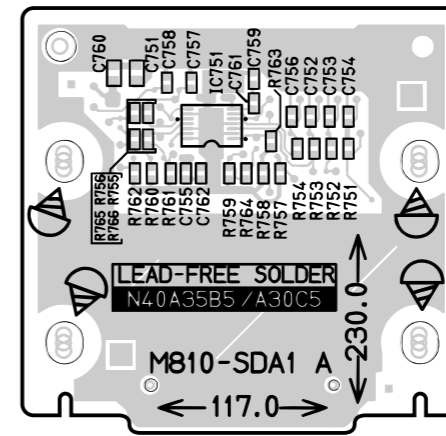
Jack PCB M901-JKA1



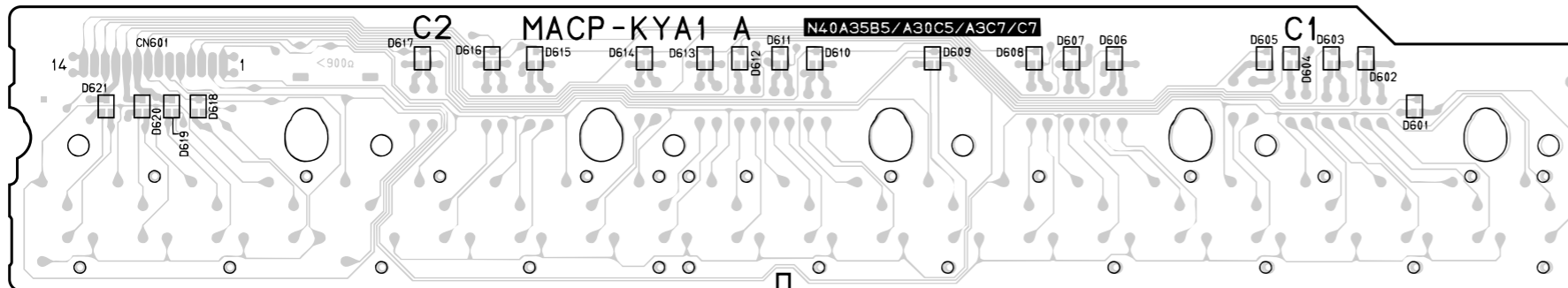
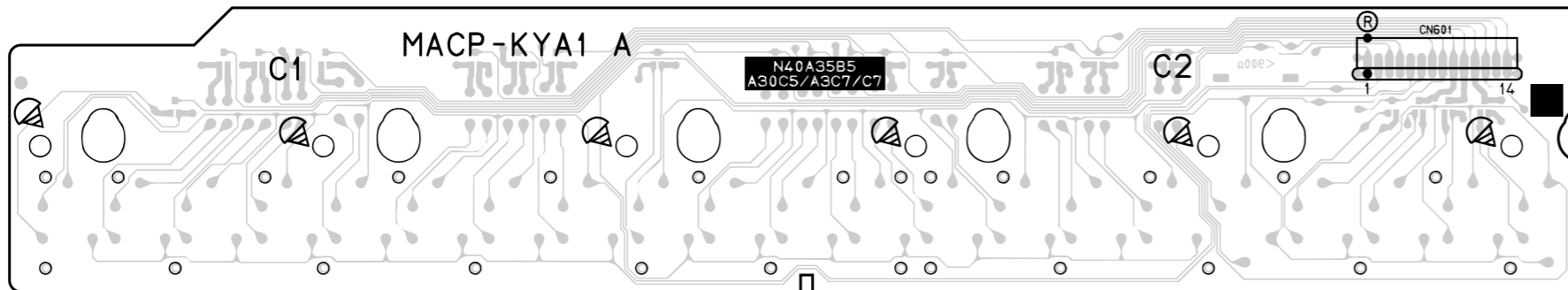
Jack PCB M900-HPA1



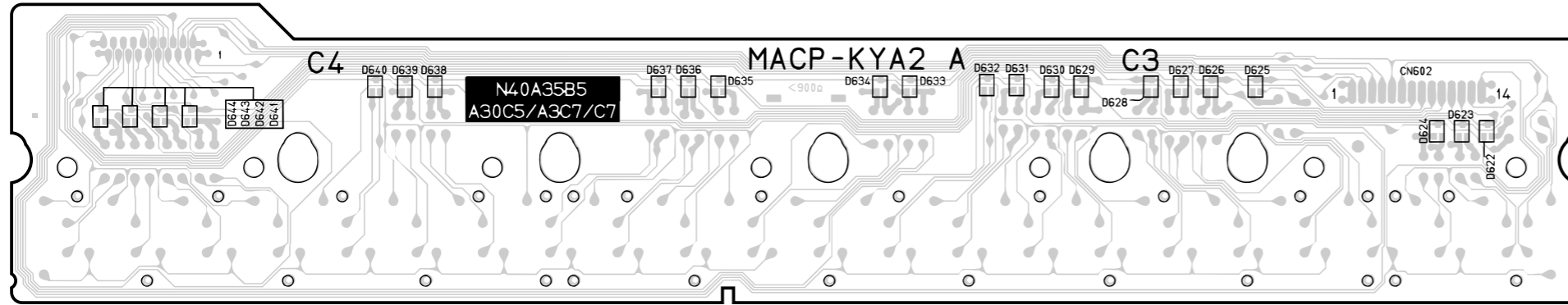
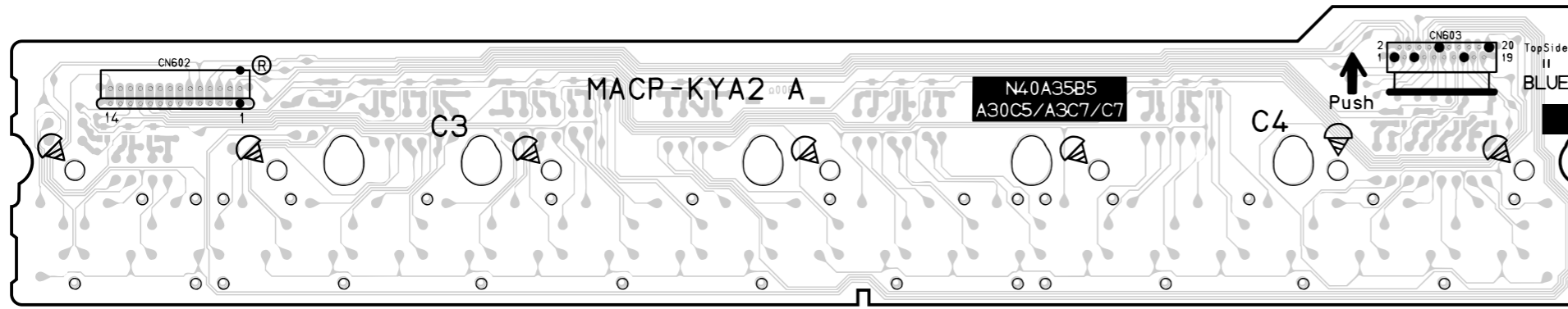
SD Card PCB M810-SDA1



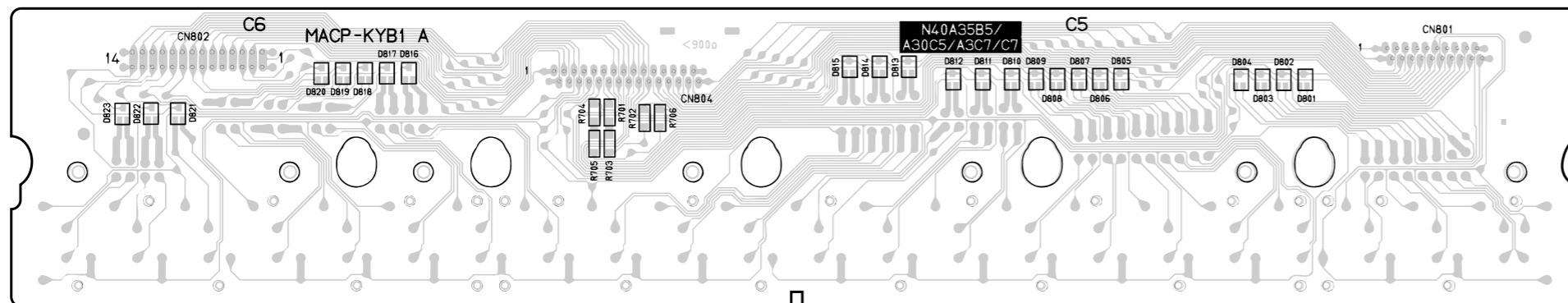
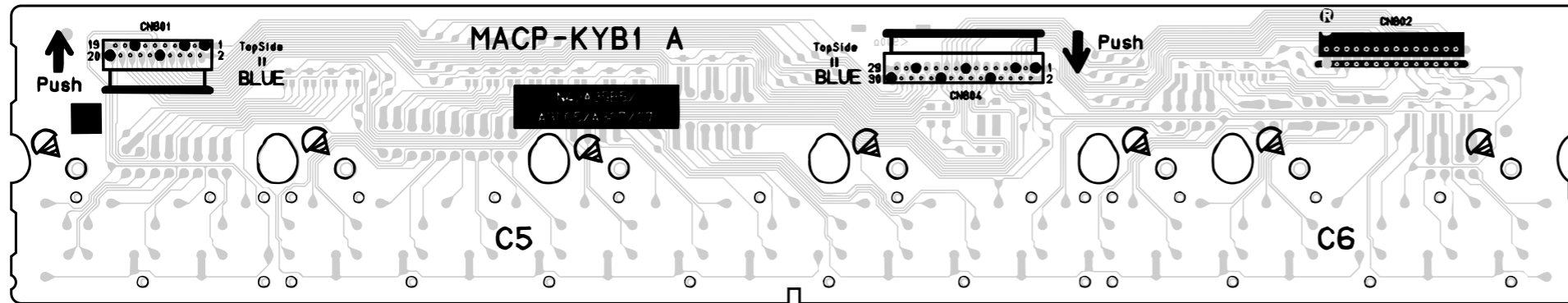
Keyboard PCB MACP-KYA1



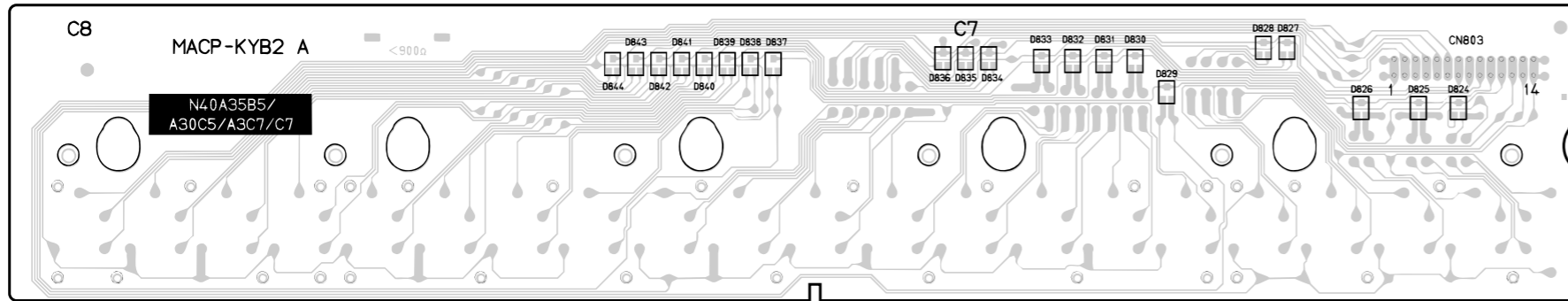
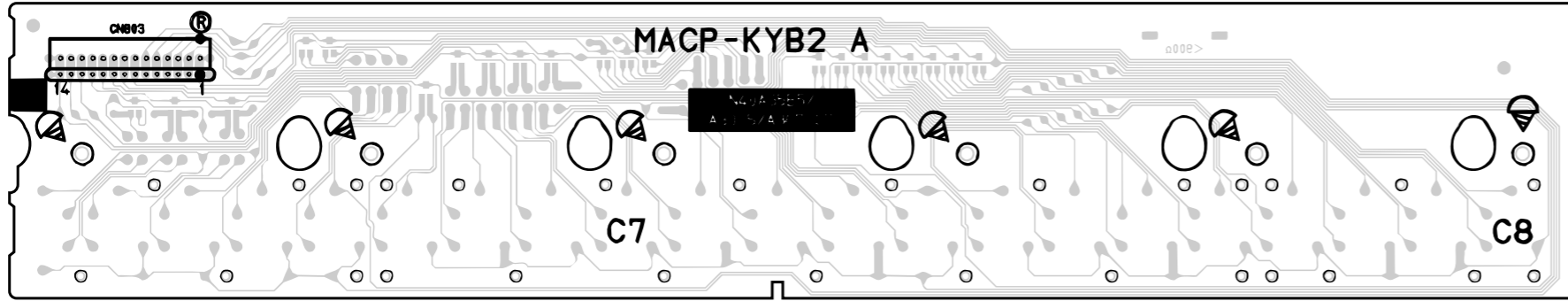
Keyboard PCB MACP-KYA2



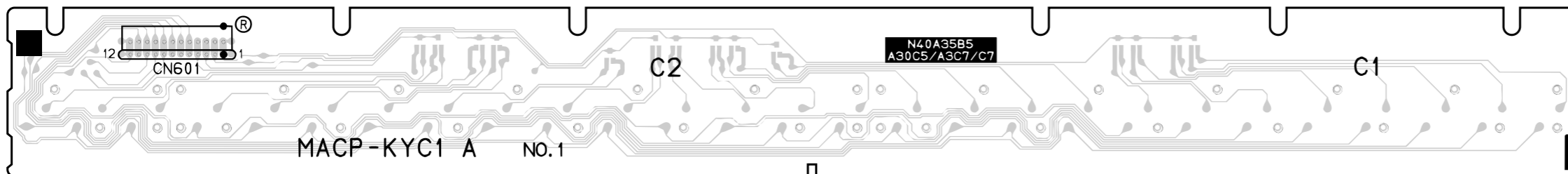
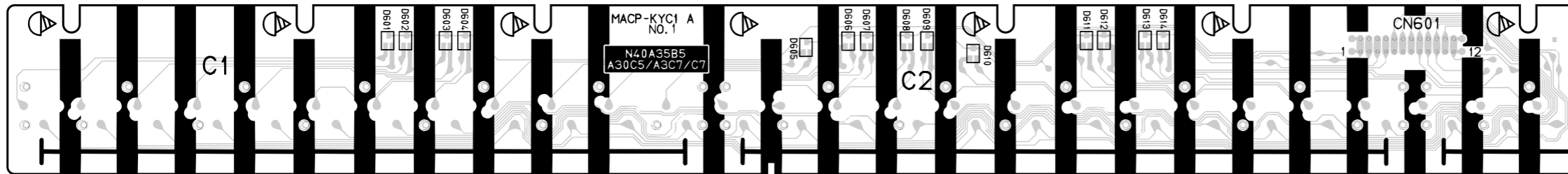
Keyboard PCB MACP-KYB1



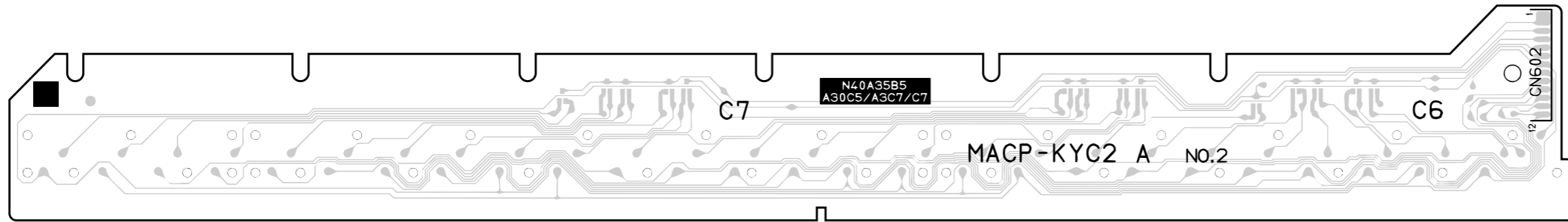
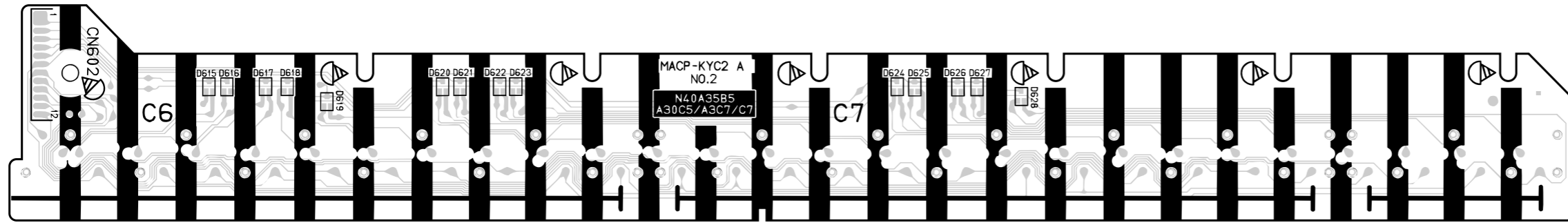
Keyboard PCB MACP-KYB2



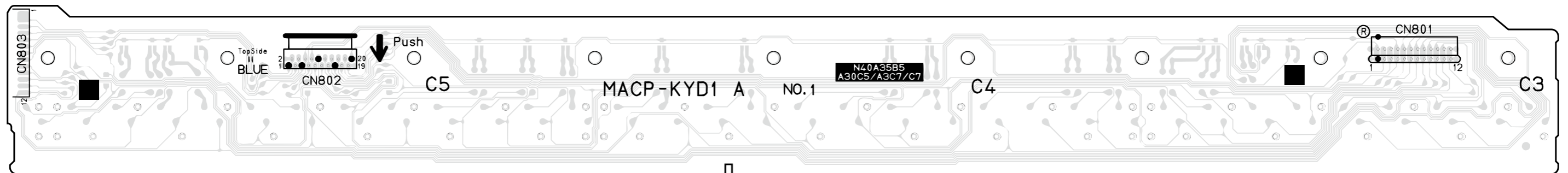
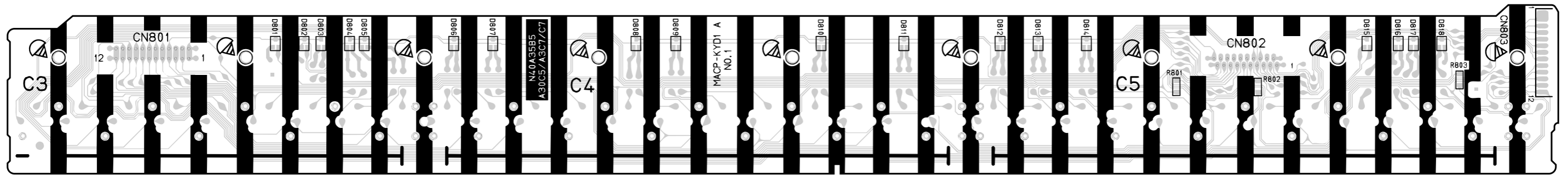
Keyboard PCB MACP-KYC1



Keyboard PCB MACP-KYC2



Keyboard PCB MACP-KYD1

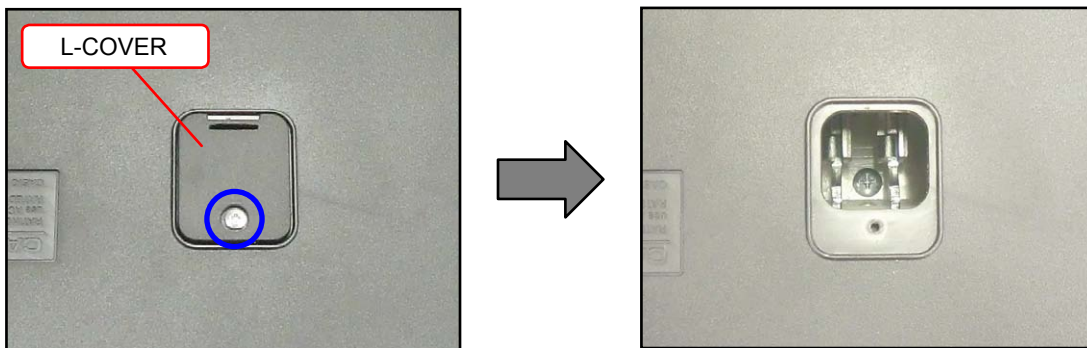
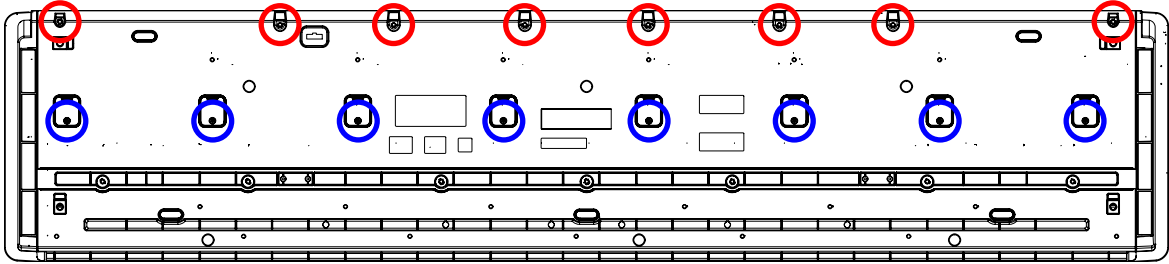


DISASSEMBLY

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

■ Removing the main panel

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



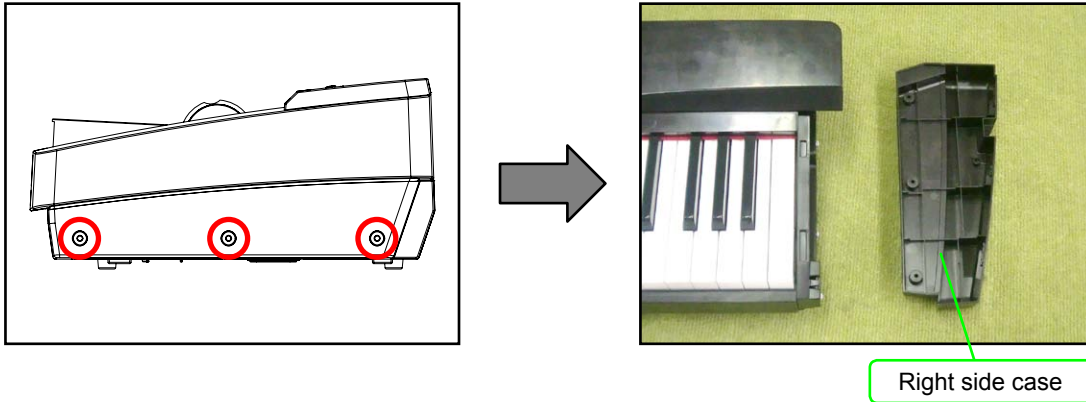
2. You will see a screw inside when you remove an L-COVER. Undo and remove the screw through each opening (eight screws in total).

NOTE: Do not drop the screws inside the main unit.

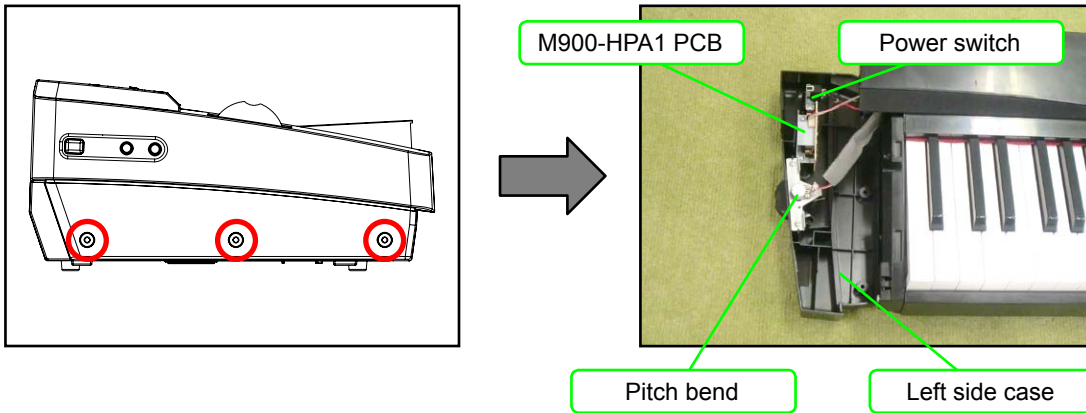
NOTE: Do not touch the hammer with the screwdriver while loosening the screws.



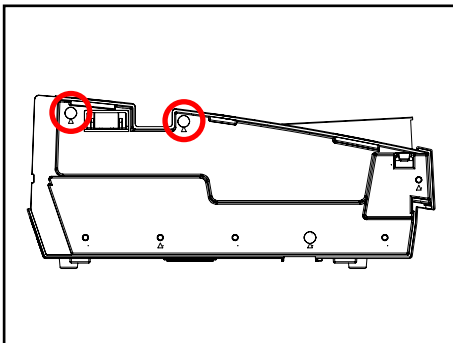
3. Place the main unit with the keys facing up. Undo three screws on the right side case.
4. Remove the right side case.



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



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



8. Remove the main panel.



■ About Wiring

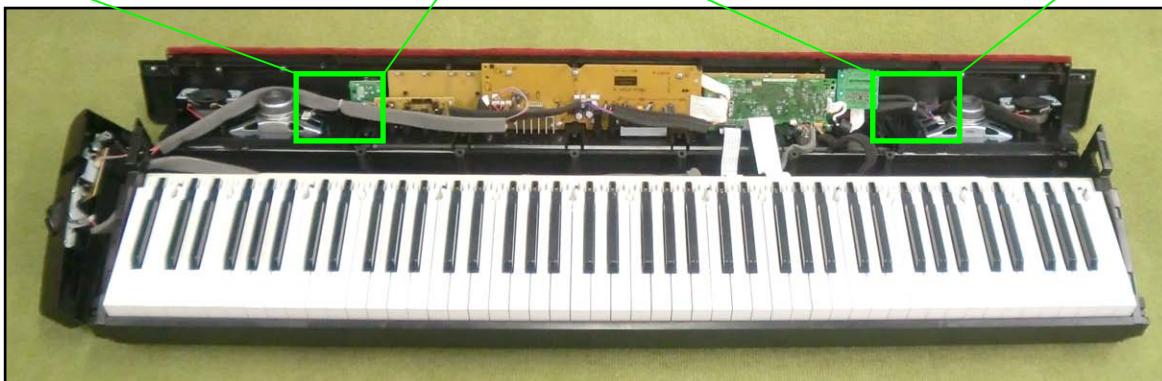
When replacing components, you may have to remove cable ties or clips. If you remove cable ties or clips, be sure to tie cables back to the original conditions when reassembling.

<Where to tie/bundle cables>

Power switch, M900-HPA1,
Left speaker, Left tweeter

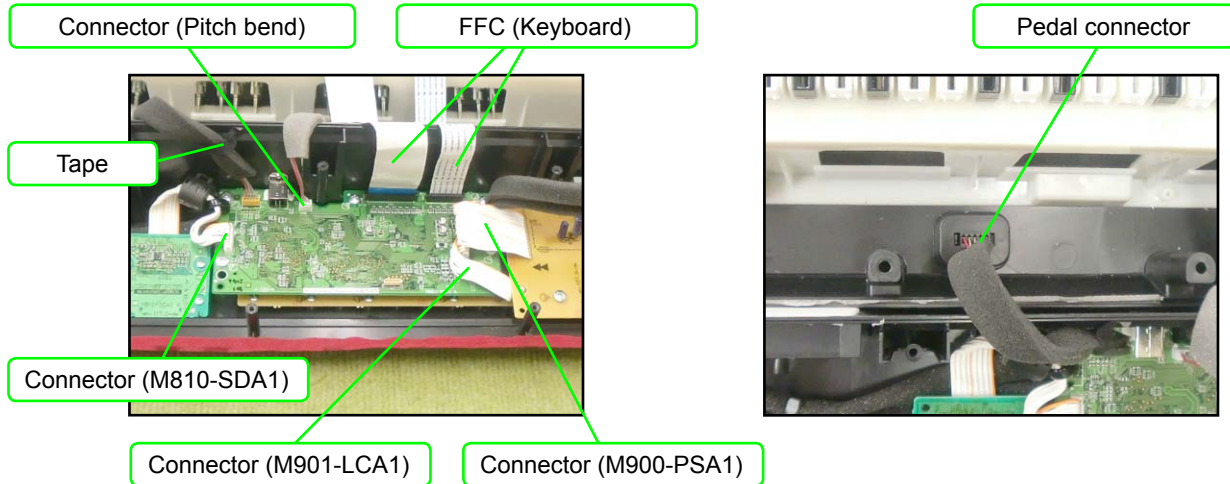


Right speaker, Right tweeter

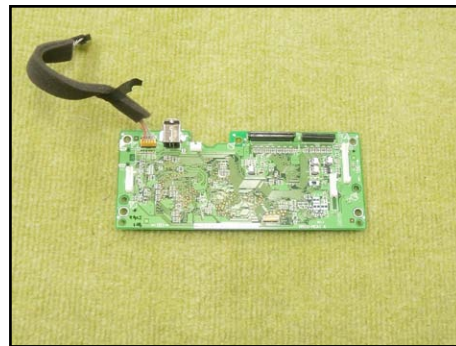
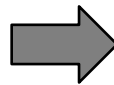
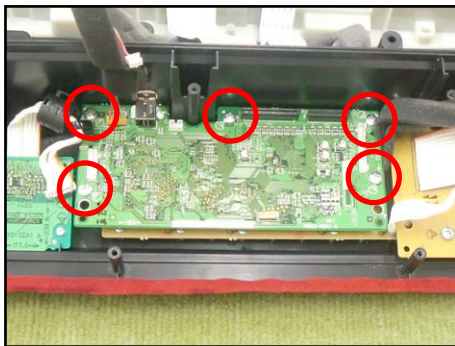


■ Removing the main PCB (M900-MDA1)

1. Release the lock and remove two FFCs.
2. Remove four connectors.
3. Remove the pedal connector connected to the lower case.
4. Remove the tape fixing the pedal connector cable in place.

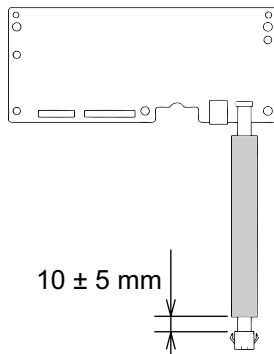


5. Undo the screw below the USB jack on the back of the main unit.
6. Undo five screws and then remove the main PCB (M900-MDA1).



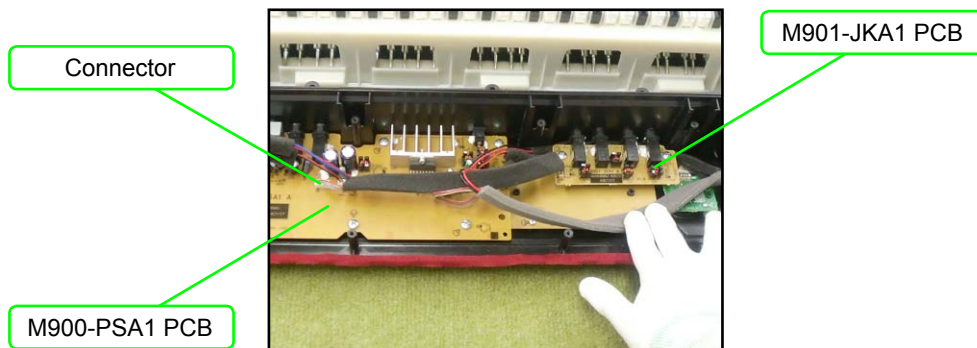
<Caution when replacing with a new part>

To attach sponge to the cable to the M900-MDA1 PCB, refer to the illustration below for its position.

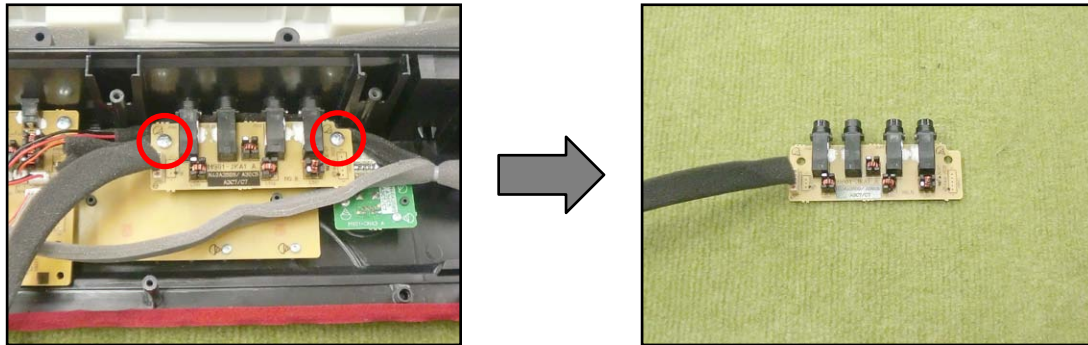


■ Removing the jack PCB (M901-JKA1)

1. Disconnect the M901-JKA1 PCB from the M900-PSA1 PCB by disengaging the connector between them.

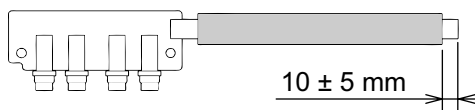


2. Undo two screws and then remove the M901-JKA1 PCB.



<Caution when replacing with a new part>

To attach sponge to the cable to the M901-JKA1 PCB, refer to the illustration below for its position.

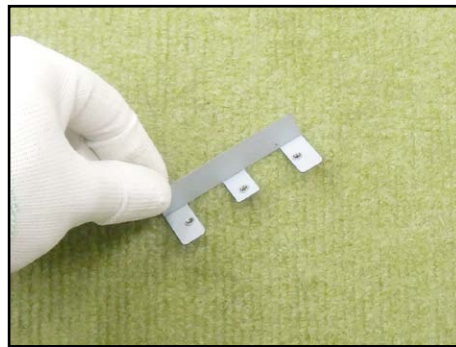
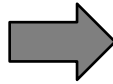
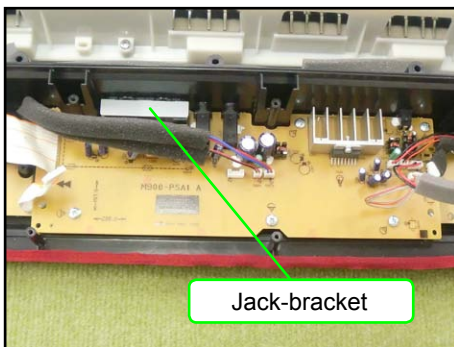


■ Removing the sub PCB (M900-PSA1)

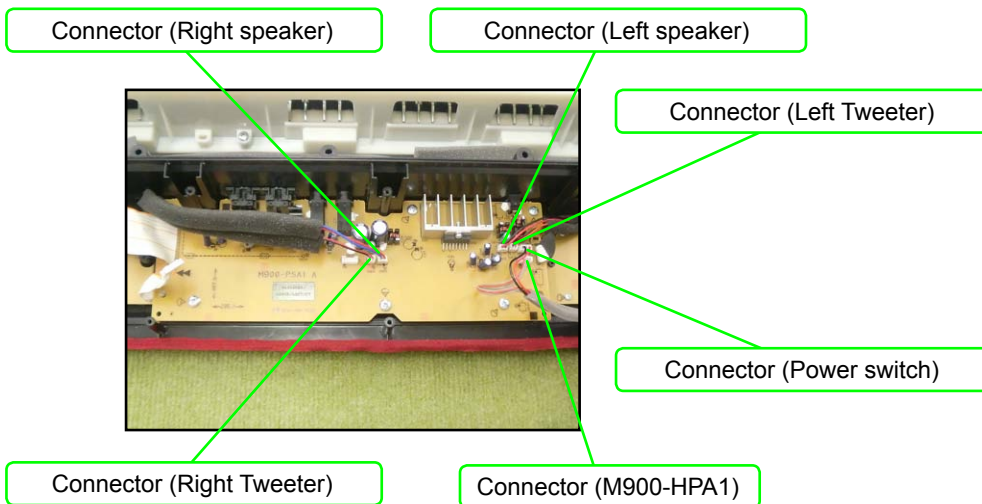
1. Remove three screws next to the MIDI jack on the back of the main unit.



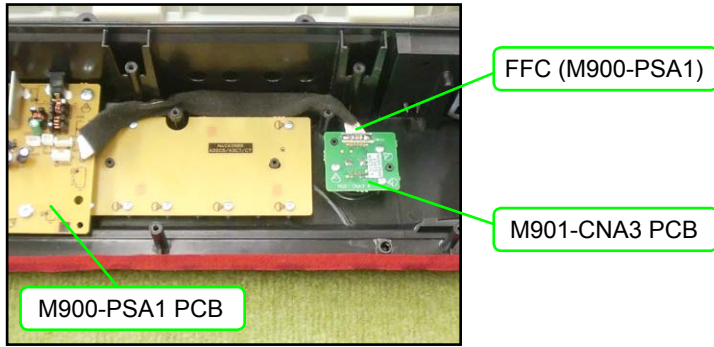
2. Remove the jack-bracket.



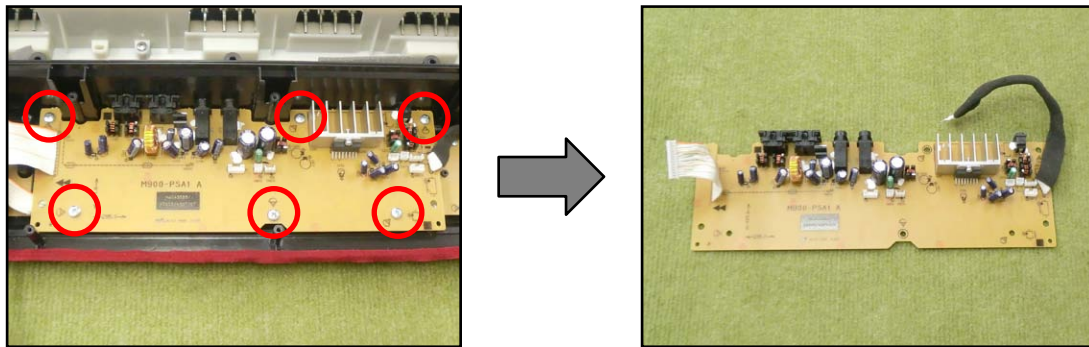
3. Remove six connectors.



4. Unsolder the FFC connected to the M901-CNA3 PCB.

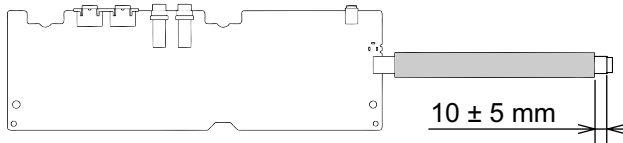


5. Undo six screws and then remove the M900-PSA1 PCB.



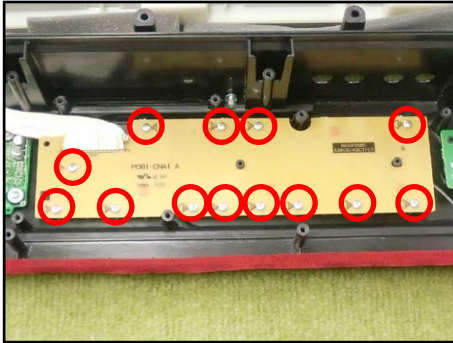
<Caution when replacing with a new part>

To attach sponge to the cable to the M900-PSA1 PCB, refer to the illustration below for its position.

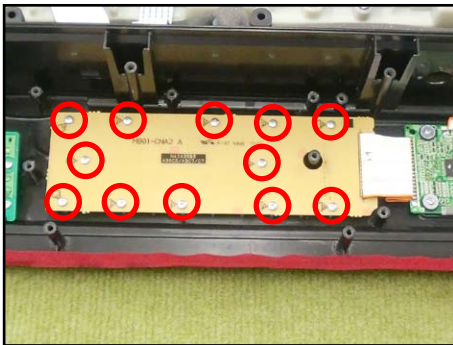


■ Removing the console PCB (M901-CNA1/CNA2, M901-LCA1)

1. Undo 13 screws on the M901-CNA1 PCB.

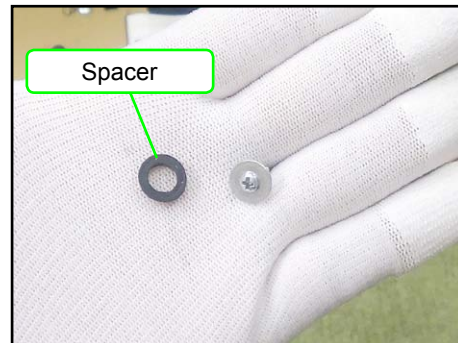
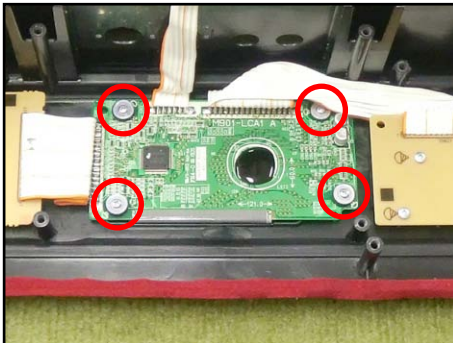


2. Undo 12 screws on the M901-CNA2 PCB.

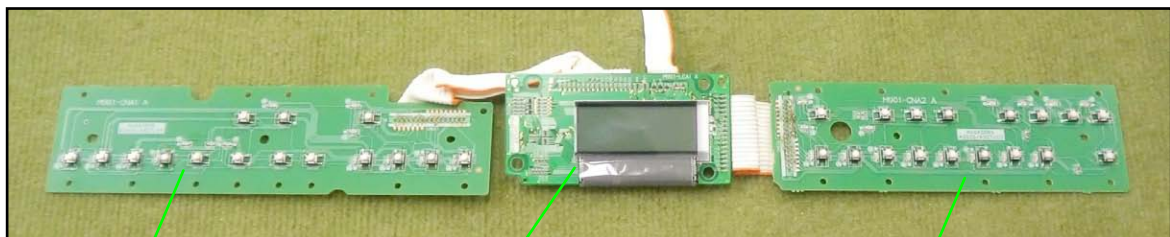


3. Undo four screws on the M901-LCA1 PCB.

NOTE: The spacer may come loose in this step. Be sure to place the spacer back in place when reassembling.



4. Remove the M901-CNA1 PCB, M901-CNA2 PCB and M901-LCA1 PCB.

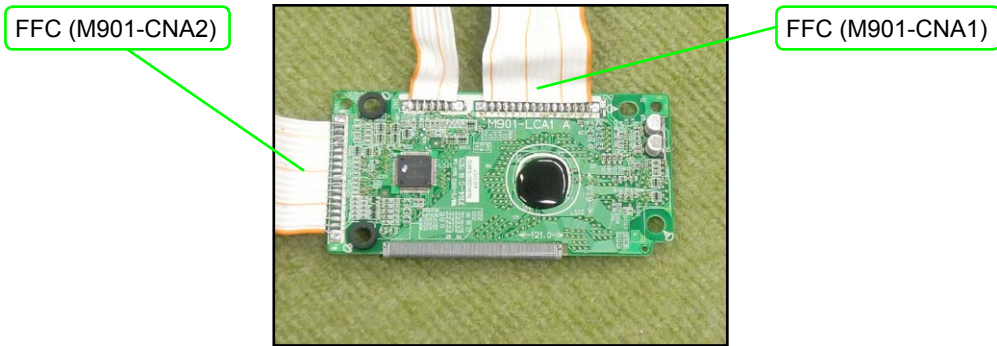


M901-CNA1 PCB

M901-LCA1 PCB

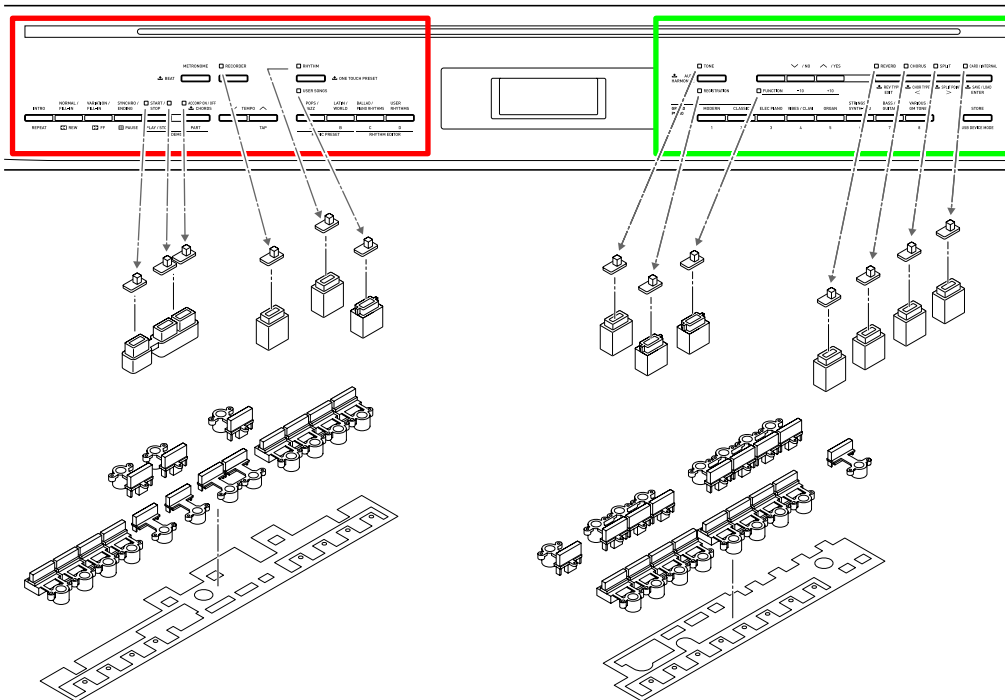
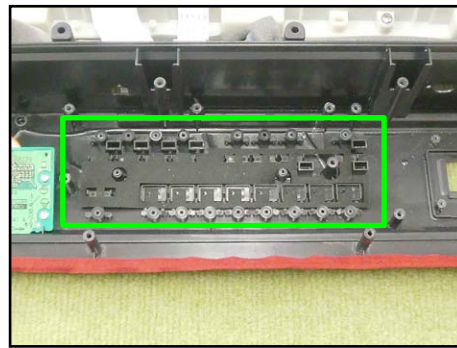
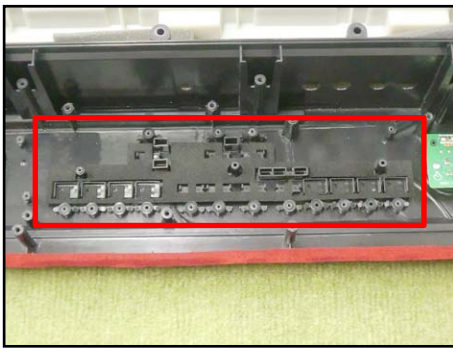
M901-CNA2 PCB

5. Unsolder two FFCs connected to the M901-LCA1 PCB, and remove the M901-CNA1 PCB and the M901-CNA2 PCB.



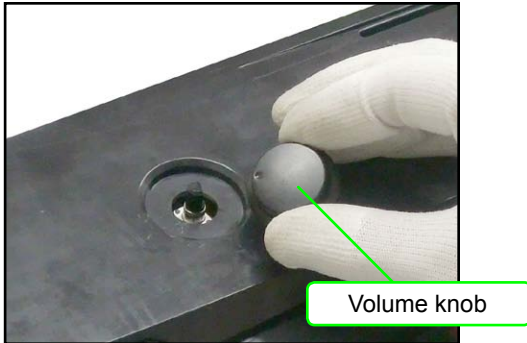
■ Removing the buttons

Once the M901-CNA1 and the M901-CNA2 PCBs are removed, you may disassemble the buttons, the LED cover, the LED spacer, and the nonwoven band.

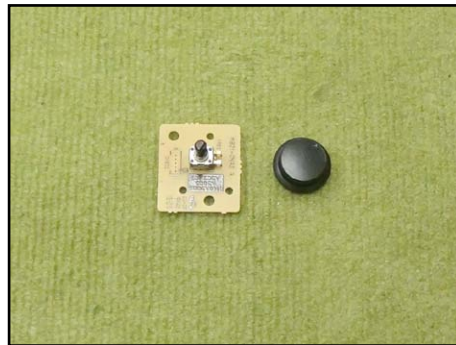
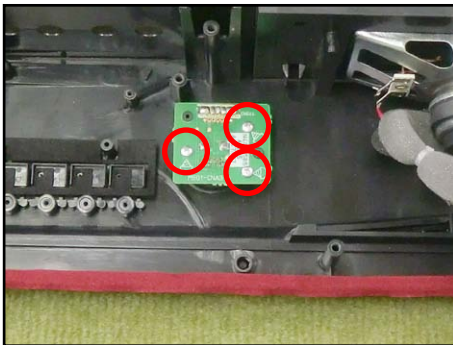


■ Removing the volume PCB (M901-CNA3)

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



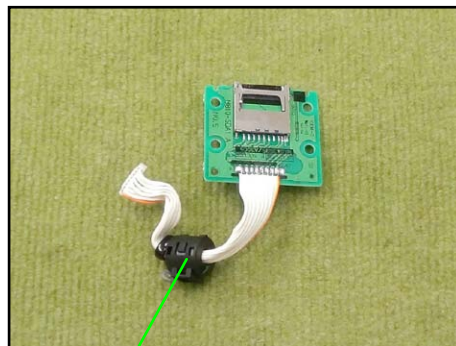
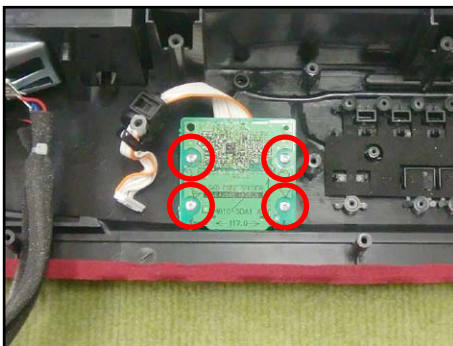
2. Undo three screws and then remove the M901-CNA3 PCB.



■ Removing the SD card PCB (M810-SDA1)

1. Undo four screws and then remove the M810-SDA1.

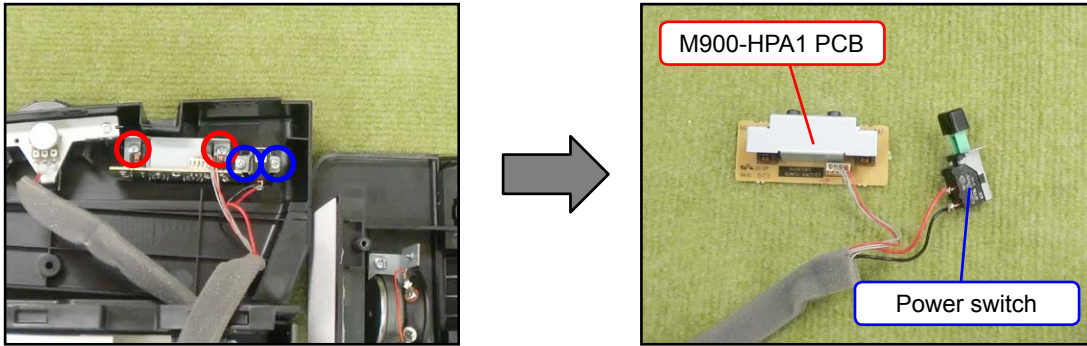
NOTE: When reassembling, be sure to run the FFC through the ferrite core.



Ferrite core

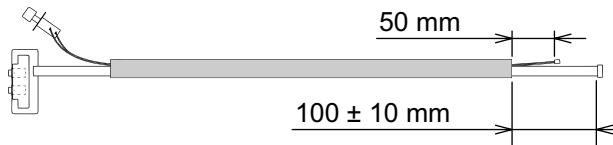
■ Removing the power switch and the jack PCB (M900-HPA1)

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



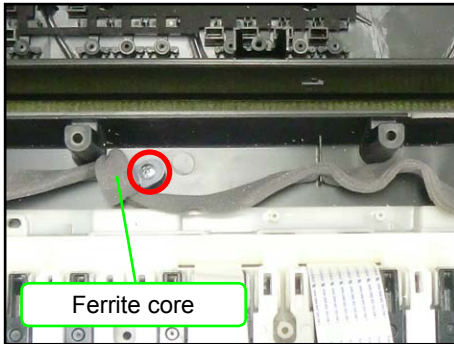
<Caution when replacing with a new part>

To attach sponge to the cables to the M900-HPA1 PCB and the power switch, refer to the illustration below for its position.

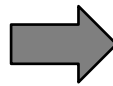
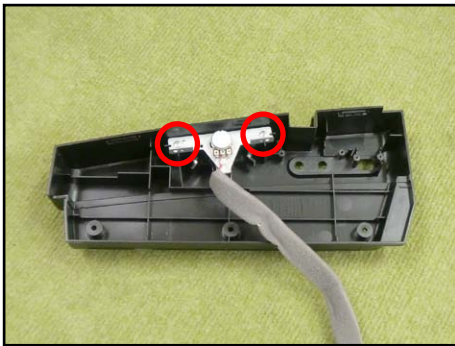


■ Removing the pitch bend

1. Undo and remove a screw fastening the ferrite core, which wraps around the pitch bend cable.
NOTE: When reassembling, be sure to wrap the ferrite core around the pitch bend cable.

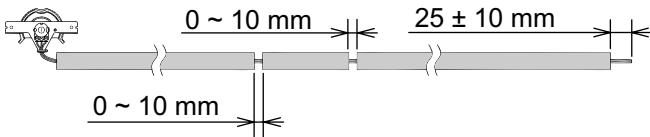


2. Undo two screws and then remove the pitch bend.



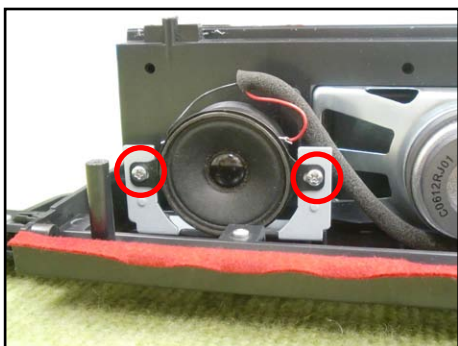
<Caution when replacing with a new part>

To attach sponge to the cable to the pitch bend, refer to the illustration below for its position.



■ Removing the tweeter

1. Undo two screws and then remove the tweeter.

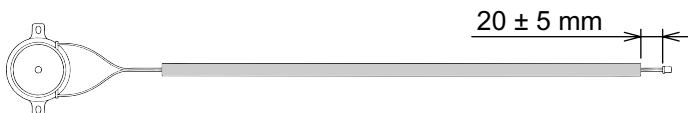


2. Similarly remove the other tweeter.

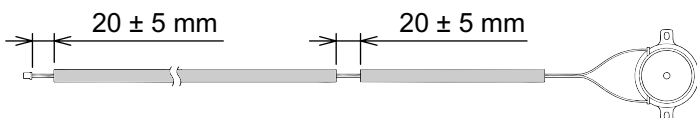
<Caution when replacing with a new part>

To attach sponge to the cable to the tweeter, refer to the illustration below for its position.

LEFT

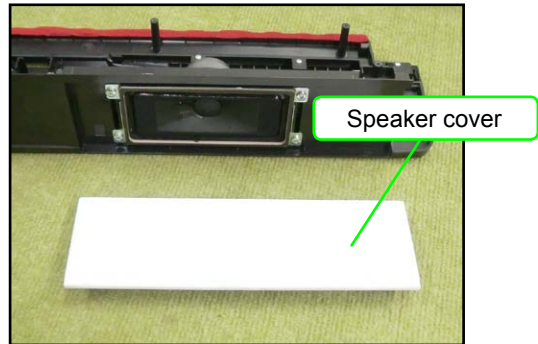
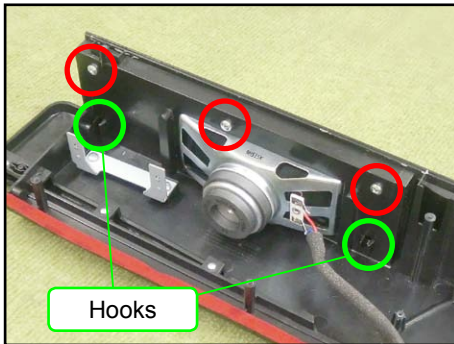


RIGHT

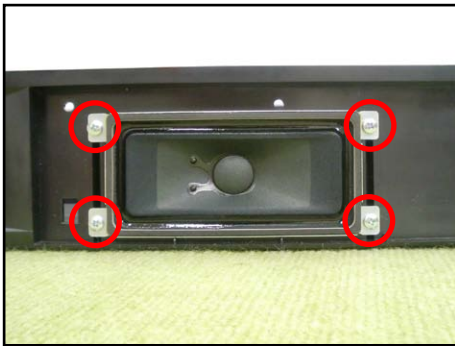


■ Removing the speaker

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



3. Undo four screws and then remove the speaker.

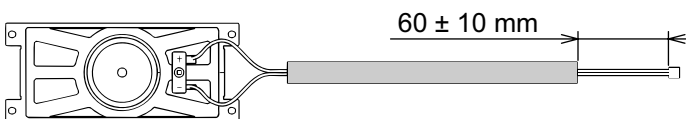


4. Similarly remove the other speaker.

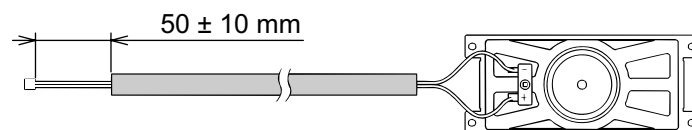
<Caution when replacing with a new part>

To attach sponge to the cable to the speaker, refer to the illustration below for its position.

LEFT

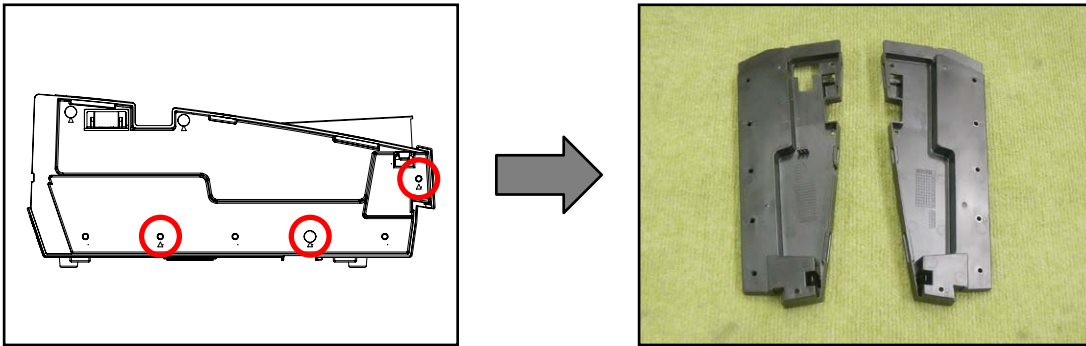


RIGHT

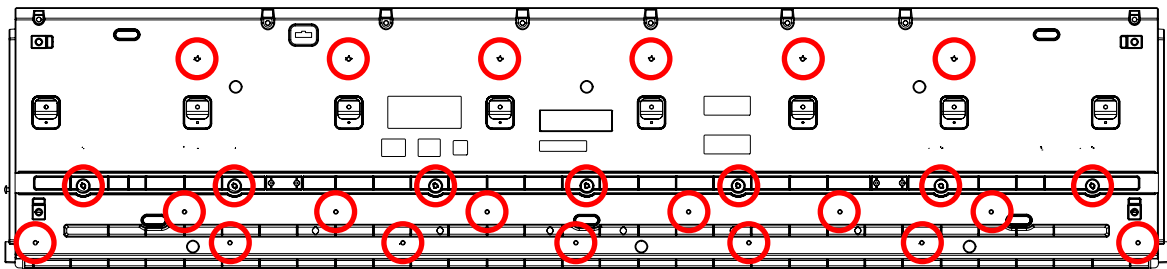


■ Removing the KY-ASSY

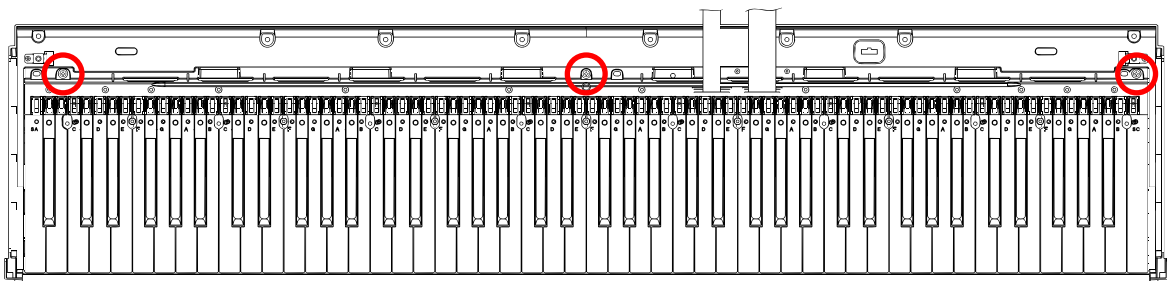
1. Undo all three screws from either side case (S-CASE-IL and S-CASE-IR), and then remove both side cases.



2. Undo 26 screws on the bottom of the main unit.



3. Place the main unit with the keys facing up.
4. Undo three screws and then remove the 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.

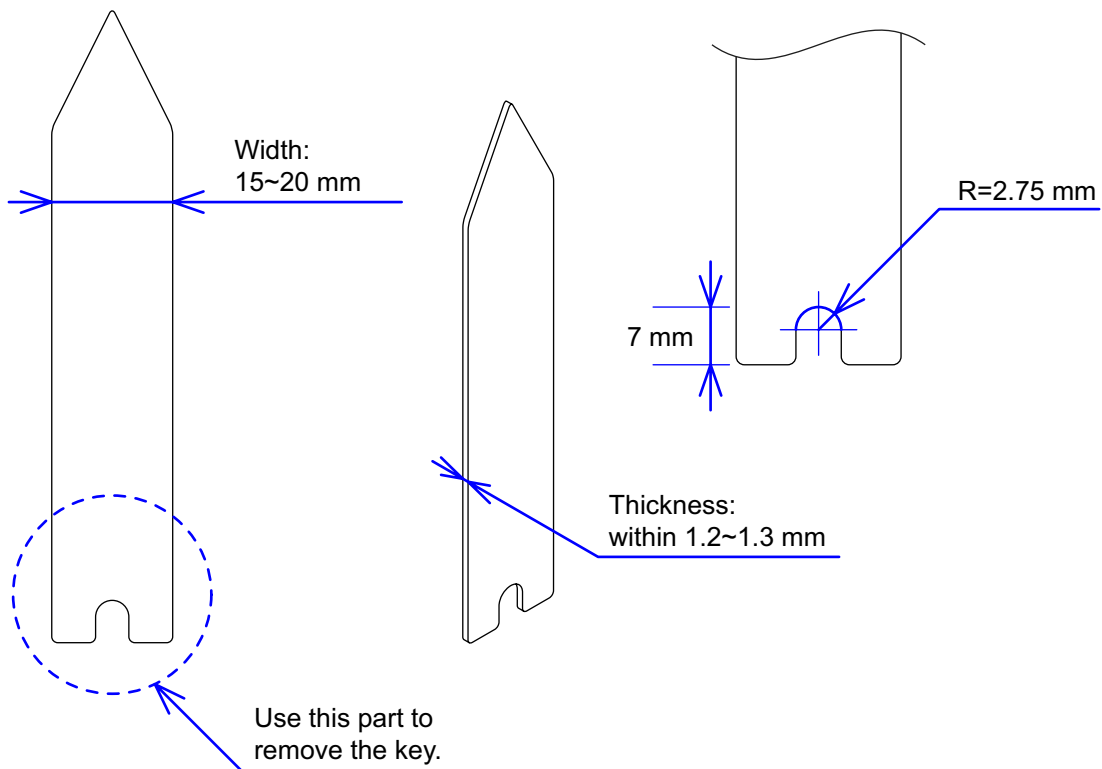
<Note on shaping an ID tag>

The thickness of the tool must be within 1.2~1.3 mm.

If the tool is too thin, removing keys become difficult.

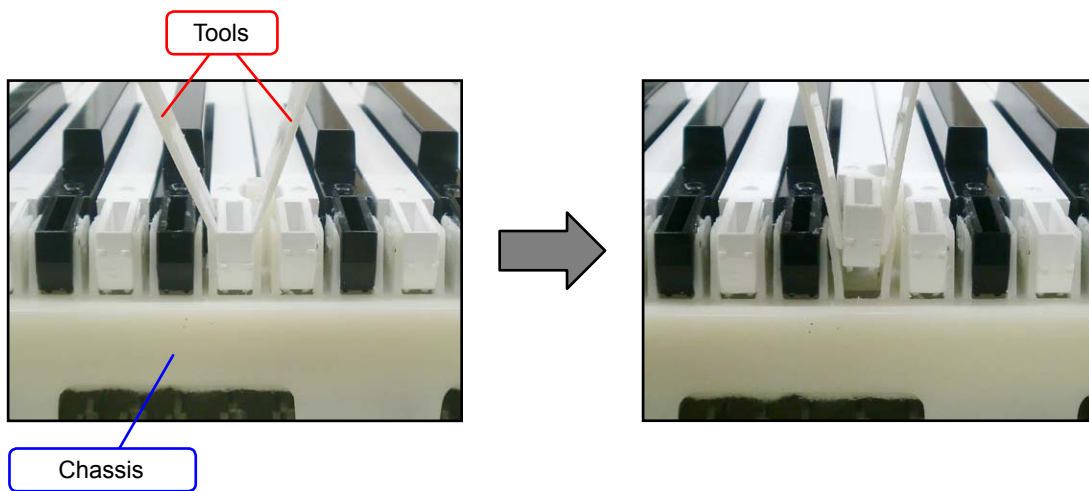
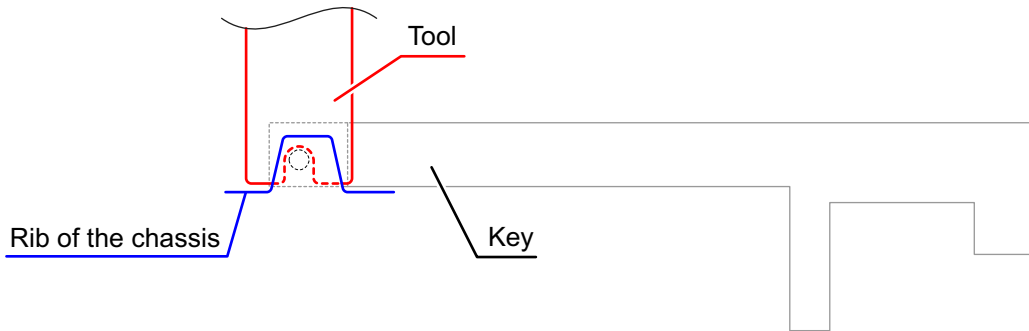
If the tool is too thick, it may damage the rib of the chassis.

<Tool dimensions>



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>

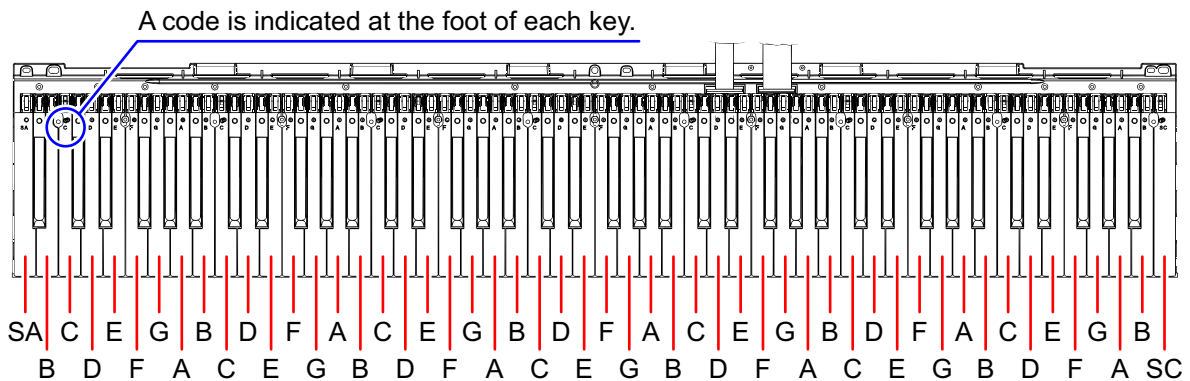


<Installing the keys>

Refer to the illustration below for the location of each white key.

Be sure to install each key at its designated location.

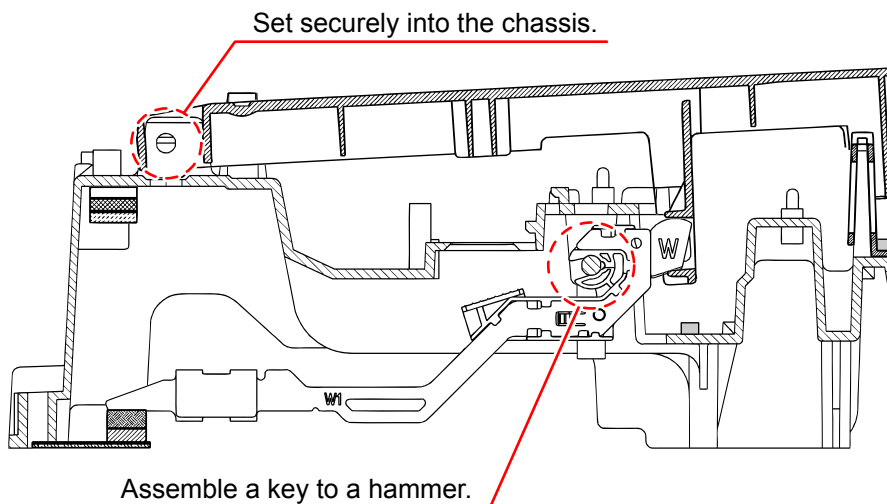
All black keys are the same. A black key may be installed at any correct black-key location.



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.

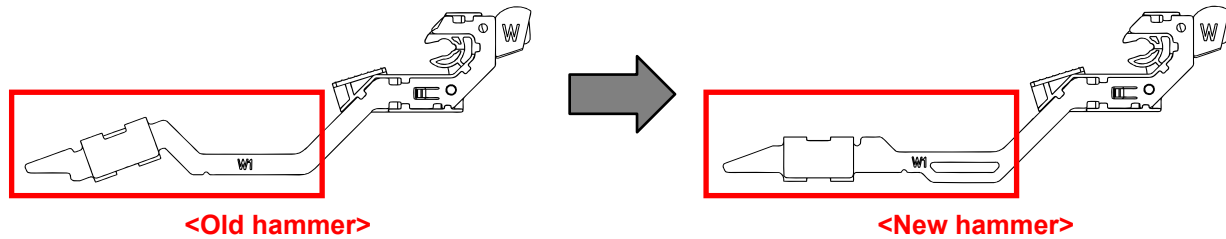


■ About the hammers

The design of the hammers installed in the PX-330BK 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-330WE since the beginning of mass production.

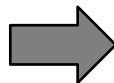
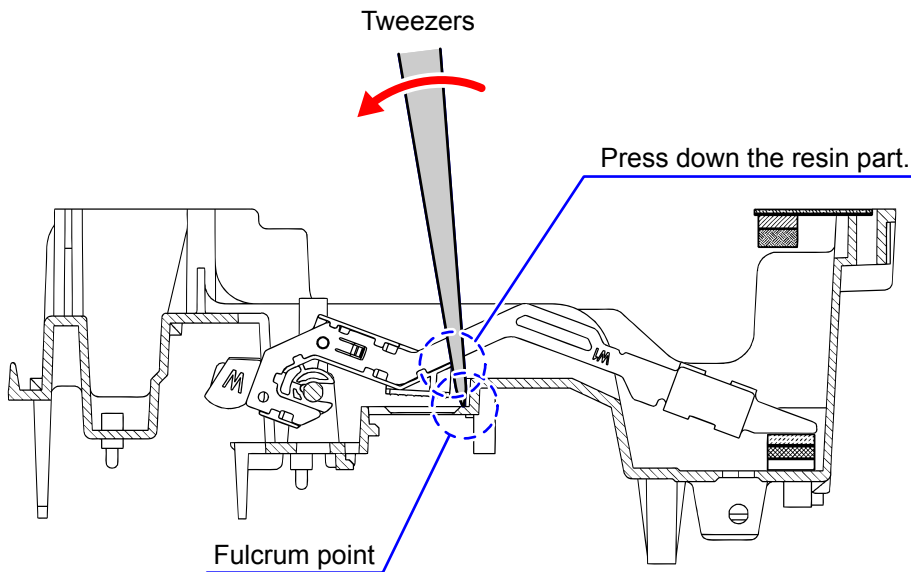


■ Removing the hammers

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.

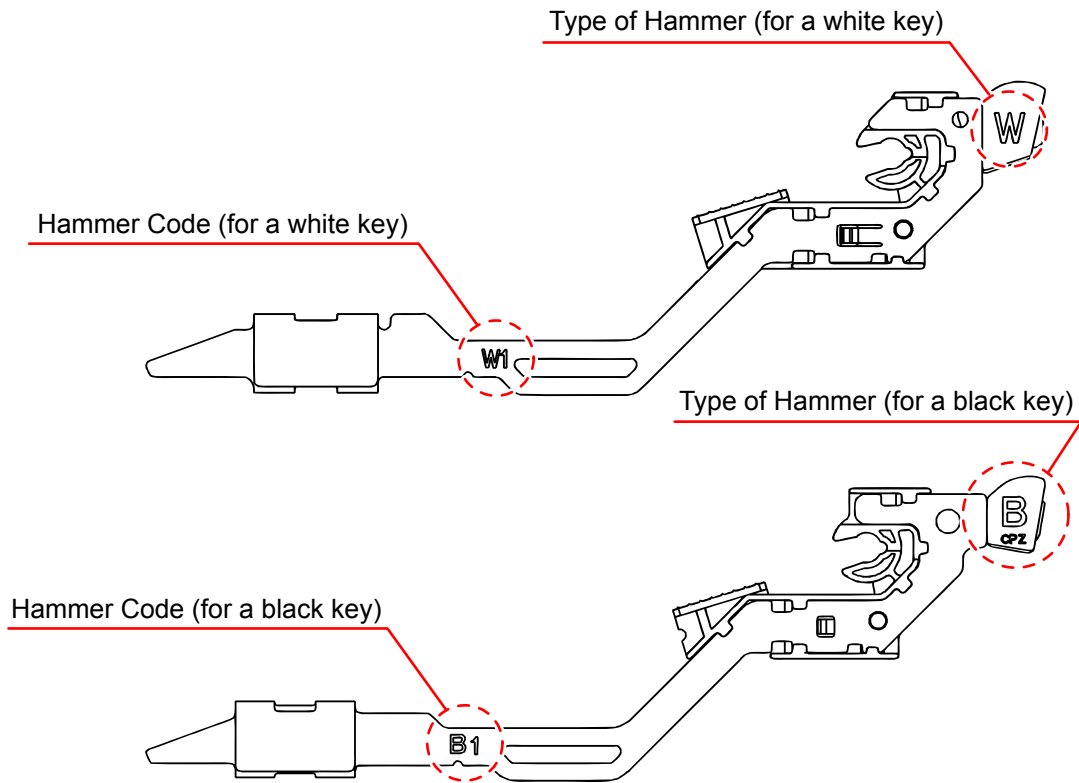
NOTE: Pressing on the metal part of the hammer may damage the area connected to the resin.



<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: "W" for a white key, "B" for a black key.

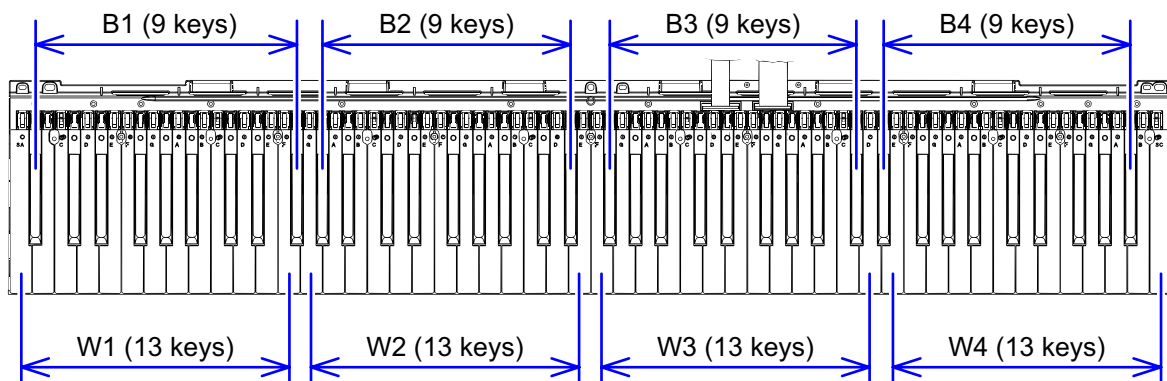
Hammer Code: The hammers for white keys are coded W1, W2, W3, and W4.
The hammers for black keys are coded B1, B2, B3, and W4.

<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>



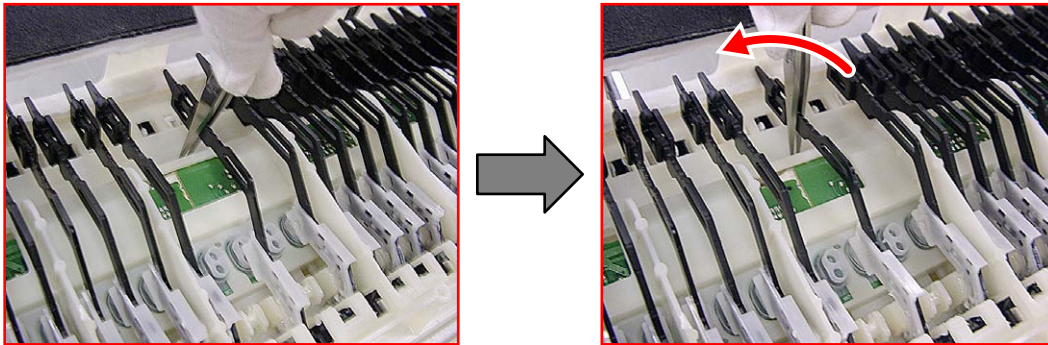
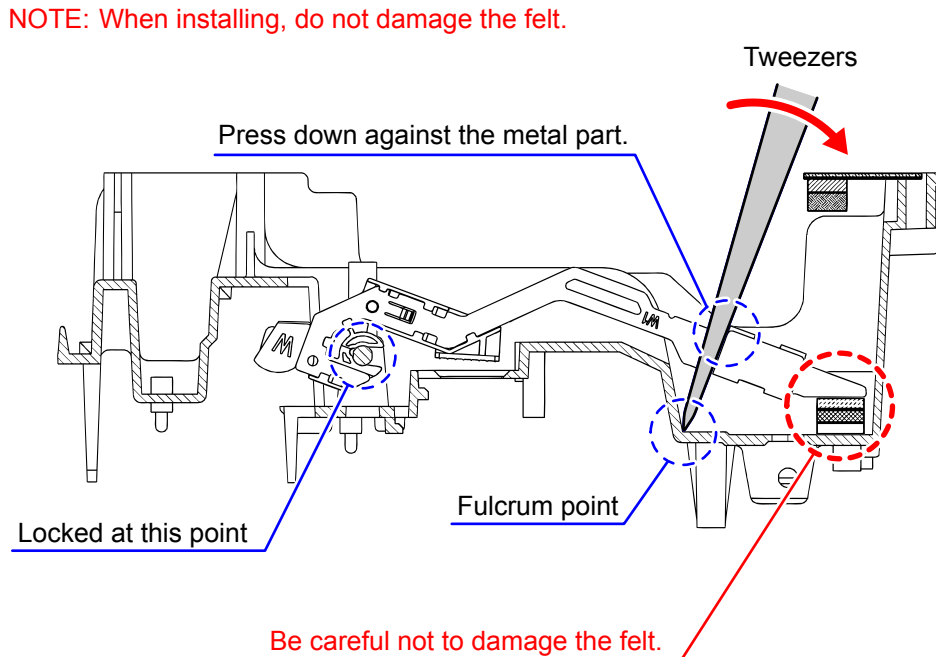
<Hammers for white keys>

<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.

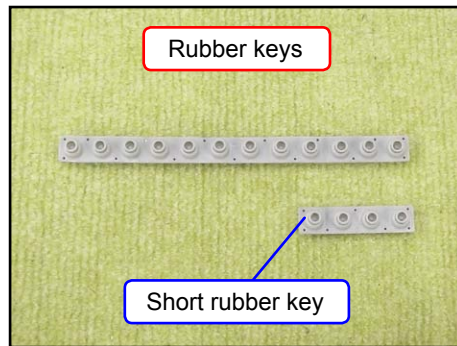
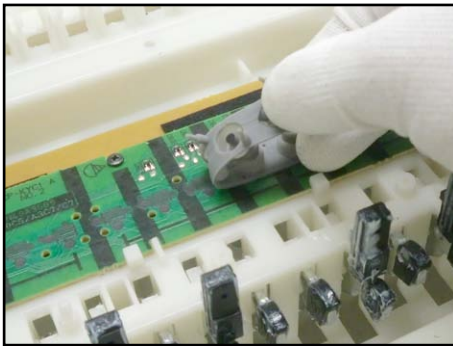
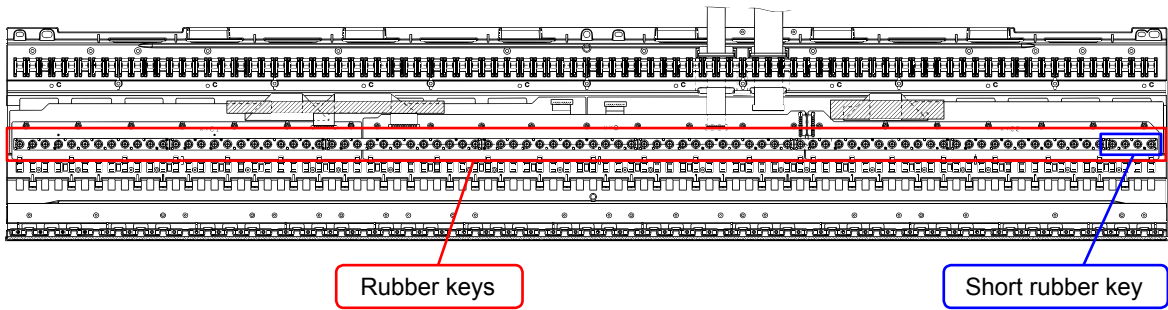
1. Use the tweezers to set a hammer at its correct location.
2. Press the chassis with the tip of tweezers.
3. Using the chassis-tweezers contact as a fulcrum point, press down the metal part of the hammer in the direction of the red arrow in the illustration below, and then install the hammer.



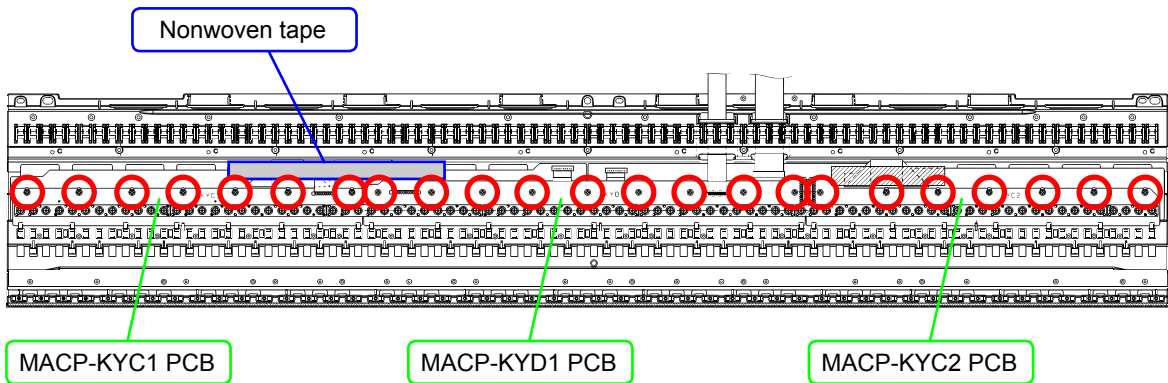
■ Removing the keyboard PCBs (MACP-KYC1/KYC2, KYD1)

1. Remove eight rubber keys.

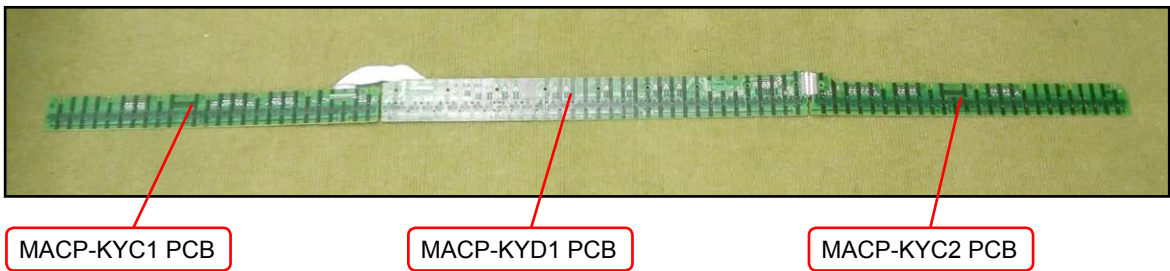
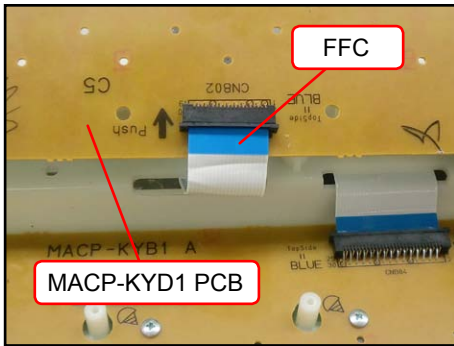
NOTE: One rubber key is shorter than the others.



2. Remove the nonwoven tape.
3. Remove 23 screws.



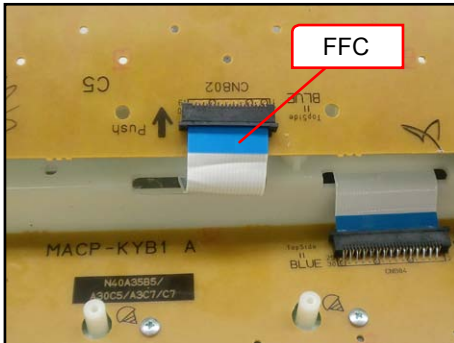
4. Locate the FFC connected on the back of the MACP-KYD1 PCB. Unlock the connector to remove the FFC, and then disengage the MACP-KYC1 PCB, the KYC2 PCB, and the MACP-KYD1 PCB.



<Installing the keyboard PCBs (MACP-KYC1/KYC2, KYD1)>

1. Connect the FFC to the MACP-KYD1 PCB and lock the connector.

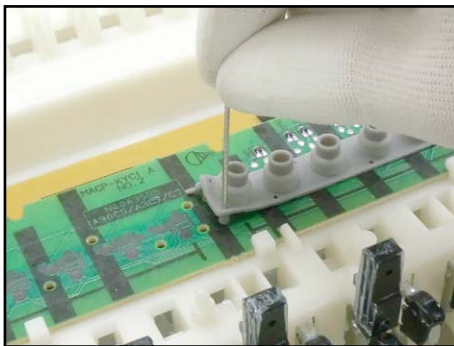
Be sure to connect it securely.



2. Install eight rubber keys.

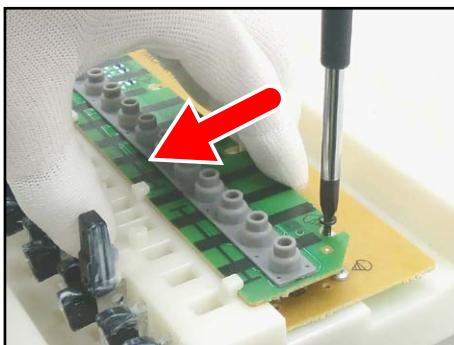
Be sure to install the short rubber key at the correct location.

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.



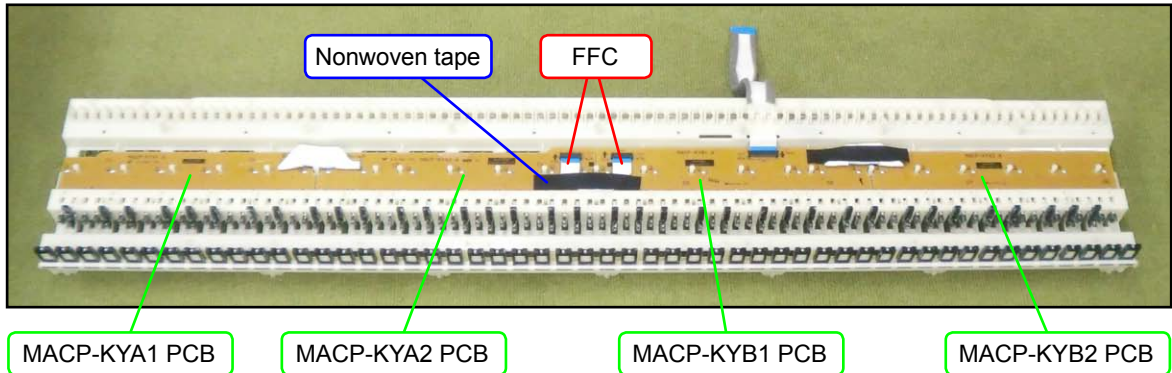
3. Secure the MACP-KYC1 PCB, the KYC2 PCB, and the MACP-KYD1 PCB with 23 screws.

Press the PCBs lightly in the direction of the red arrow in the illustration below while tightening a screw.

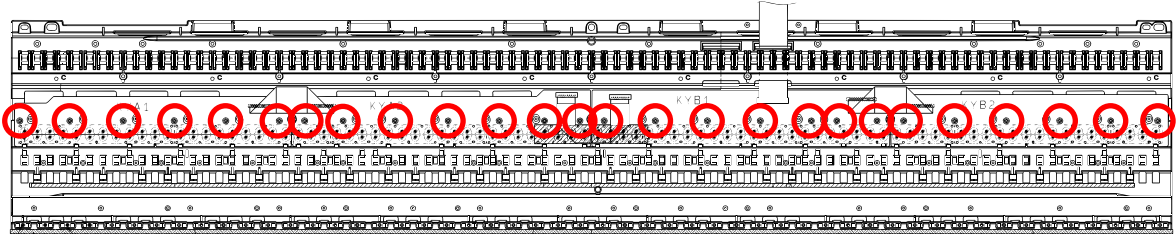


■ Removing the keyboard PCBs (MACP-KYA1/KYA2, KYB1/KYB2)

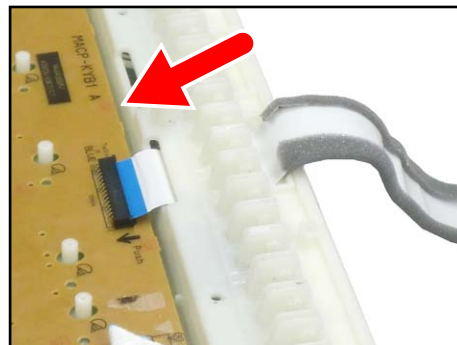
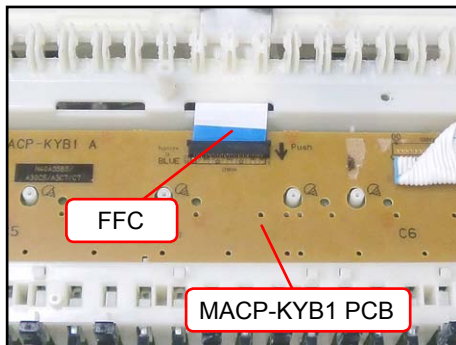
1. Remove the nonwoven tape. Unlock the connector and disengage the FFC connecting the MACP-KYA2 PCB and the MACP-KYB1.



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.

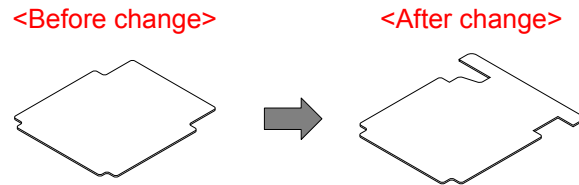
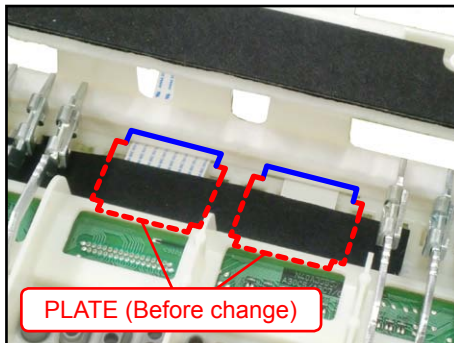


<If the PLATE comes off>

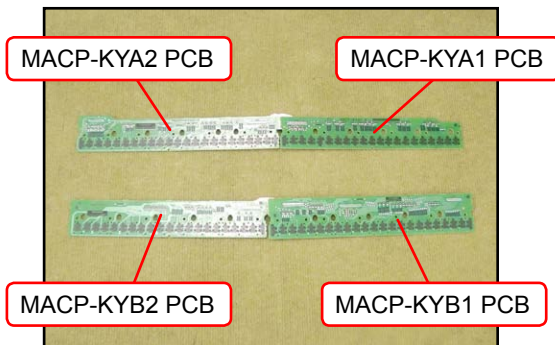
The PLATE is a transparent plastic plate. If the plate comes off, put it on the place where the FFC is is, and insert its end into place where the blue line is shown in the image.

NOTE: The design of the PLATE was modified after the mass production.

The new types of plates are installed in PX-330WE since the beginning of mass production.

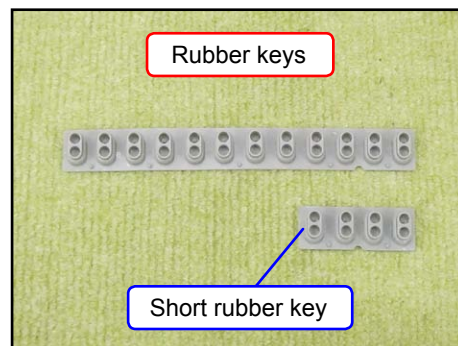
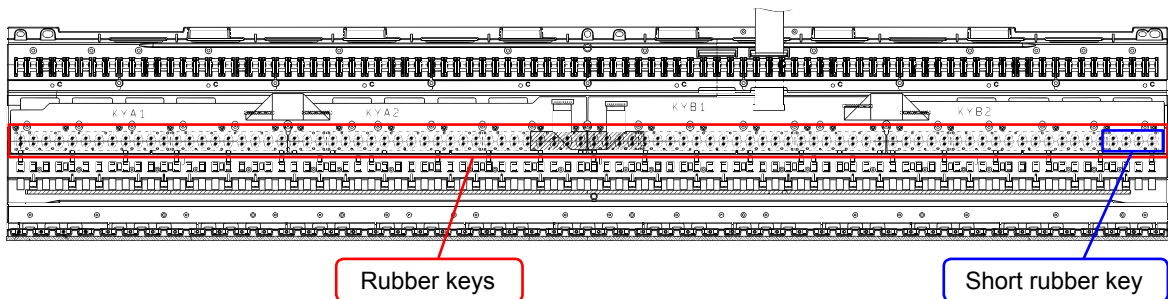


4. Remove the keyboard PCBs (MACP-KYA1/KYA2, KYB1/KYB2).



5. Remove eight rubber keys.

NOTE: One rubber key is shorter than the others.



<Installing the keyboard PCBs (MACP-KYA1/KYA2, KYB1/KYB2)>

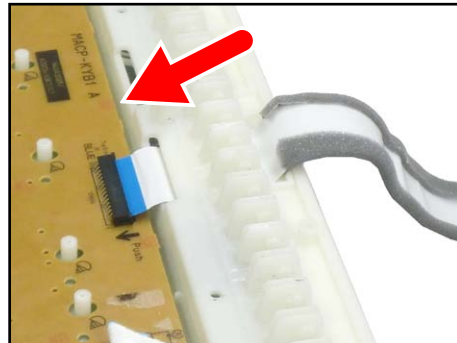
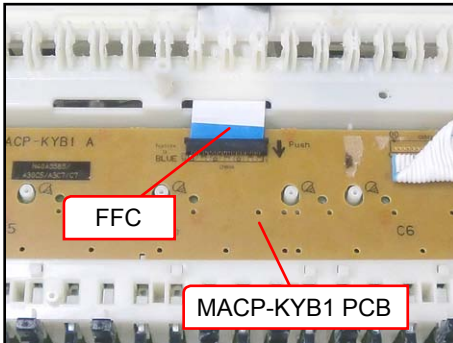
1. Place eight rubber keys on the chassis.

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.

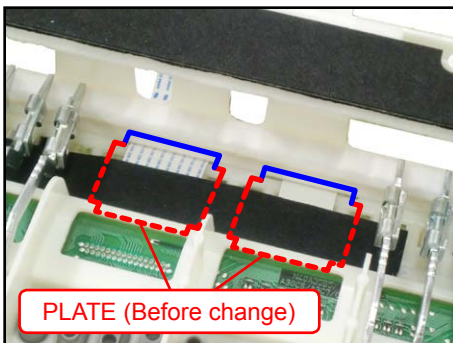


<If the PLATE comes off>

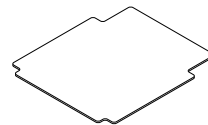
The PLATE is a transparent plastic plate. If the plate comes off, put it on the place where the FFC is, and insert its end into place where the blue line is shown in the image.

NOTE: The design of the PLATE was modified after the mass production.

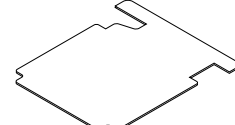
The new types of plates are installed in PX-330WE since the beginning of mass production.



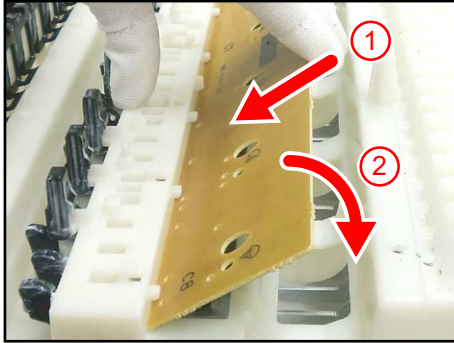
<Before change>



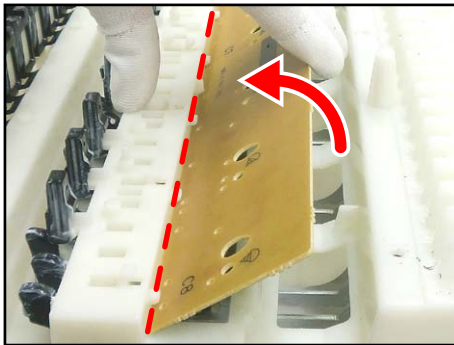
<After change>



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.



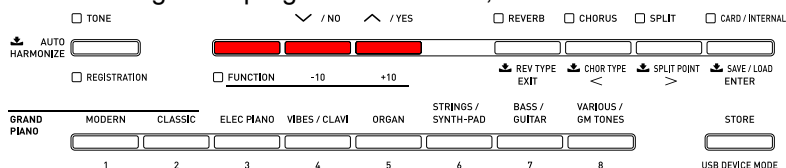
DIAGNOSTIC PROGRAM

Initial Setting

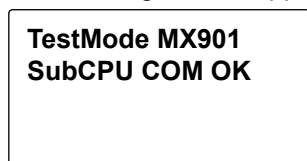
1. Connect the AC adaptor.
2. Connect the pedal (SP-3 or SP-32).
Even if a pedal unit is unavailable for the test, all the tests except for the pedal check may be performed.
* SP-3 is the pedal unit that comes with PX-330.
Connect it to the DAMPER PEDAL jack or the SOFT/SOSTENUTO PEDAL jack in the back 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, 10.6.6 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 "FUNCTION", "v / NO" and "^ / YES" buttons at the same time, to turn the power ON.
After the diagnostic program is launched, Sub CPU ROM check will start.



The message below appears on the LCD.



2. Release the "FUNCTION", "v / NO" and "^ / YES" buttons.

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

Test Items

After starting the diagnostic program, pushing the test button will enable these items to be tested.

Test Items	Buttons	Note
RAM check	MODERN	
ROM check, Flash Memory check	CLASSIC	Check SUM test, Read/Write test
ROM Version check	ELEC PIANO	
LED check	VIBES/CLAVI	
LCD check	ORGAN	
Button check	STRINGS/SYNTH-PAD	
Bender check	BASS/GUITAR	
Key check	REPEAT	
Pedal check	BASS/GUITAR	Pedal (SP-3, SP-32)
Headphones check	POPS/JAZZ	Headphones
MIDI check	LATIN/WORLD	MIDI cable
USB check	BALLAD/PIANO RHYTHM	PC, USB cable
SD Card check	USER RHYTHMS	SD card

Diagnostic program

RAM check

1. Press the "MODERN" button to perform the "RAM check".
The confirmation chord C6 sounds, and "OK" appears on the LCD.

**TestMode MX901
RAM CHECK
RAM:OK**

ROM check and Flash Memory check (Check SUM test, Read/Write test)

1. Press the "CLASSIC" button to perform the "ROM check".
The confirmation chord C6 sounds, and "OK" appears on the LCD.

**TestMode MX901
IROM CHECK
IROM:OK**

2. Press the "STORE" button to perform the "Flash Memory check (Check SUM test)".
The check will be completed in approximately 15 seconds.
The confirmation chord C6 sounds, and "OK" appears on the LCD.

**TestMode MX901
FLASH TEST
FLSH:OK**

3. Press the "RHYTHM" button to perform the "Flash Memory check (Read/write test)".
The confirmation chord C6 sounds, and "OK" appears on the LCD.

**TestMode MX901
FLASH R/W TEST
FLSH:OK**

ROM version check

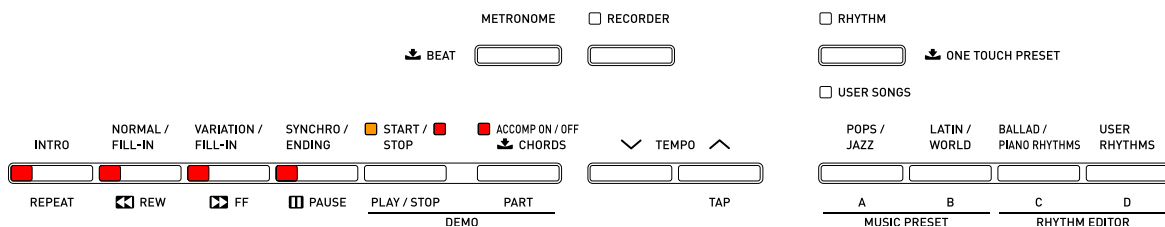
1. Press the "ELEC PIANO" button to perform the "ROM version check".
Check that the ROM version is as shown in the right.

ROM VERSION
IROM:01.00
FLSH:01.00
SUBC:01.00

LED check

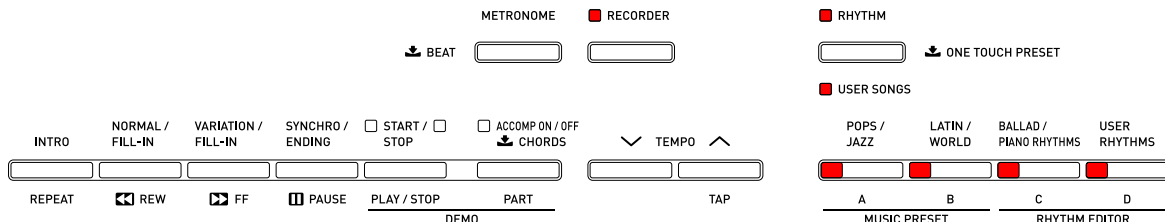
1. Press the "VIBES/CLAVI" button to perform the "LED check".
Check that the following LEDs are lit.
"REPEAT", "REW", "FF", "PAUSE", "PLAY/STOP Left/Right", "ACCOMP"

TestMode MX901
LED CHECK
LEFT BLOCK



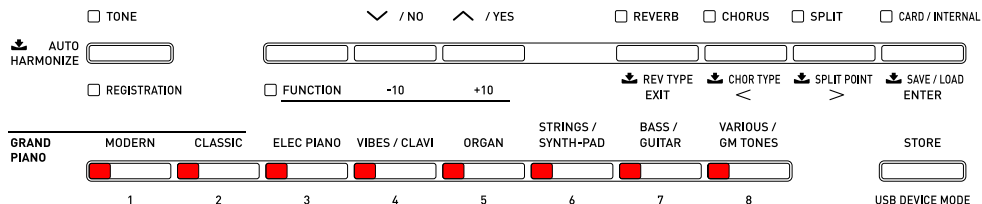
2. Press the "STORE" button.
Check that the following LEDs are lit.
"RECORDER", "RHYTHM", "USER SONGS", "POPS/JAZZ",
"LATIN/WORLD", "BALLAD/PIANO RHYTHMS", "USER RHYTHMS"

TestMode MX901
LED CHECK
RHYTHM BLOCK



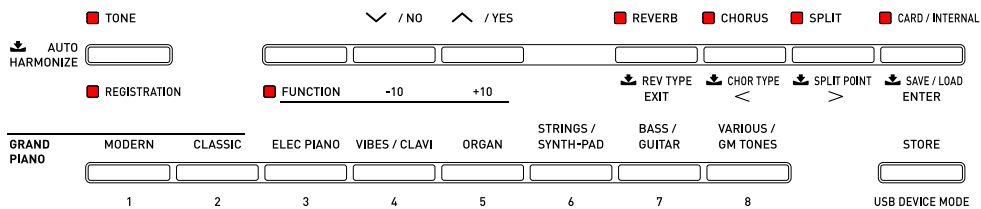
3. Press the "STORE" button.
Check that the following LEDs are lit.
"MODERN", "CLASSIC", "ELEC PIANO", "VIBES/CLAVI", "ORGAN",
"STRINGS/SYNTH-PAD", "BASS/GUITAR", "VARIOUS/GM TONES"

TestMode MX901
LED CHECK
TONE BLOCK



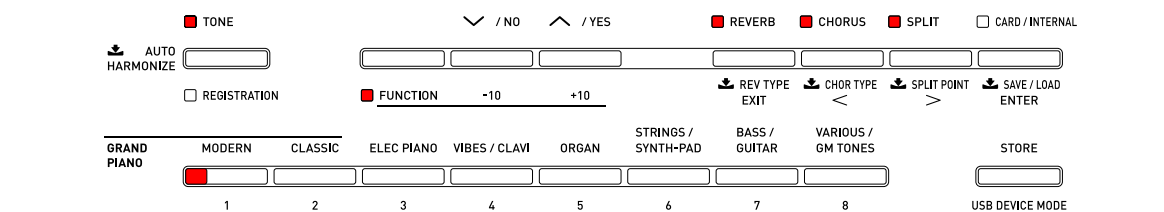
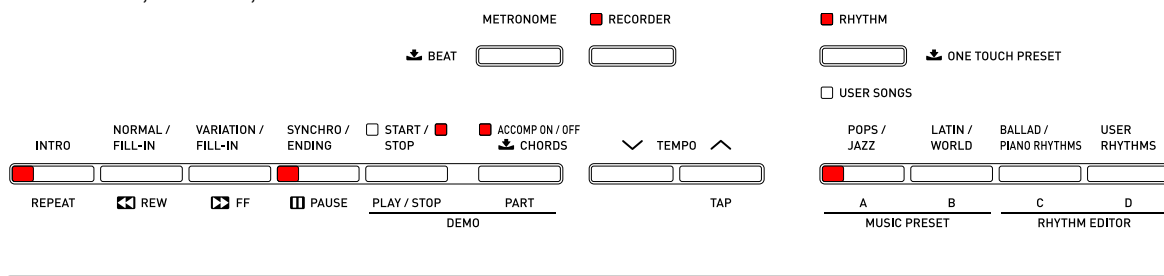
- Press the "STORE" button.
Check that the following LEDs are lit.
"TONE", "REGISTRATION", "FUNCTION", "REVERB", "CHORUS",
"SPLIT", "CARD/INTERNAL"

**TestMode MX901
LED CHECK
RIGHT BLOCK**



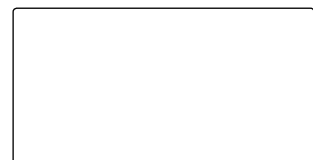
- Press the "STORE" button.
Check that the following LEDs are lit.
"REPEAT", "PAUSE", "PLAY/STOP Right", "ACCOMP", "RECORDER",
"RHYTHM", "POPS/JAZZ", "TONE", "FUNCTION", "REVERB",
"CHORUS", "SPLIT", "MODERN"

**TestMode MX901
LED CHECK
SPEC MAX**

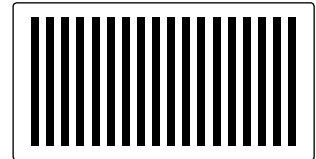


LCD check

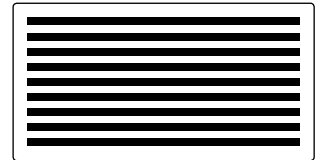
- Press the "ORGAN" button to perform the "LCD check".
Check that all dots are lit.
- Press the "STORE" button.
Check that all dots are turned off.



- Press the "STORE" button.
Check that vertical stripes with 1-dot intervals are shown.



- Press the "STORE" button.
Check that horizontal stripes with 1-dot intervals are shown.



Button check

- Press the "STRINGS/SYNTH-PAD" button to select the "Button check".

**TestMode MX901
SWITCH CHECK**

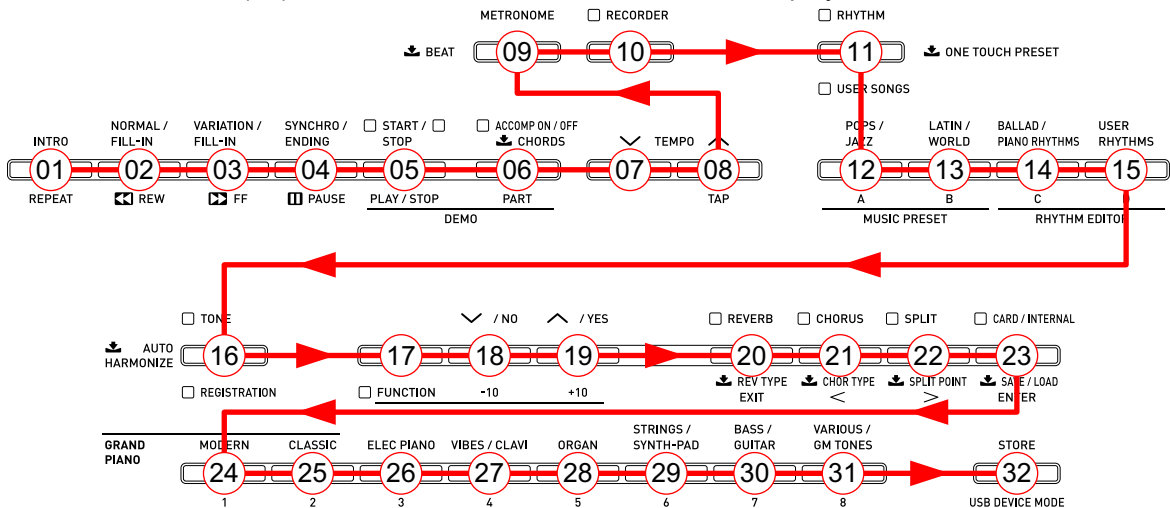
- Press the button in the order indicated in the illustration below.

If the button function is OK:

The confirmation chord C6, sounds, and the button number will be displayed.

If a button function is not operating properly or a button is pressed in a wrong order:

An error tone (F2) sounds, and the button number will be displayed.



- Press the "STORE" button the last.
The confirmation chords C4, E4, G4 sound.

**TestMode MX901
SWITCH CHECK
OK:32**

Bender check

1. Press the "BASS/GUITAR" button to perform the "Bender check".
The message shown in the right appears.

**Sf00 St00 Dp00
BenderOK
Note00 Vel100**

2. Turn the bender wheel upward.
The confirmation chord C6 sounds and the message shown in the right appears.

**Sf00 St00 Dp00
BenderFF
Note00 Vel100**

3. Return the bender wheel to the original position.
The message shown in the right appears.

**Sf00 St00 Dp00
Bender80
Note00 Vel100**

4. Turn the bender wheel downward.
The confirmation chord C6 sounds and the message shown in the right appears.

**Sf00 St00 Dp00
Bender00
Note00 Vel100**

5. Return the bender wheel to the original position.
The message shown in the right appears.

**Sf00 St00 Dp00
Bender80
Note00 Vel100**

Key check

Check all white and black keys.

1. Press the "REPEAT" button to select the "Key check".
2. Confirm that a test tone (approx. 500 Hz) sounds from the left speaker while a key is pressed half way.
3. 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.

**TestMode MX901
KEY CHECK 1**

Pedal check

1. Press the "BASS/GUITAR" button to select the "Pedal check".
* The procedures following this step differ according to the type of the pedal unit.

**Sf00 St00 Dp00
BenderOK
Note00 Vel100**

<Pedal Check for SP-3>

1. Connect the SP-3 pedal unit to the "SOFT/SOSTENUTO" jack and step on a pedal.
The confirmation chord G4 sounds.

**Sf7F St00 Dp00
BenderOK
Note00 Vel100**

2. Connect the SP-3 pedal unit to the "DAMPER" jack and step on a pedal.
The confirmation chord C4 sounds.

**Sf00 St00 Dp7F
BenderOK
Note00 Vel100**

<Pedal Check for SP-32>

1. Press the "SOFT" pedal.
The confirmation chord E4 sounds.

**Sf7F St00 Dp00
BenderOK
Note00 Vel100**

2. Press the "SOSTENUTO" pedal.
The confirmation chord G4 sounds.

**Sf00 St7F Dp00
BenderOK
Note00 Vel100**

3. Press the "DAMPER" pedal (ON HALF).
The confirmation chord C4 sounds.

**Sf00 St00 Dp40
BenderOK
Note00 Vel100**

4. Press the "DAMPER" pedal firmly (ON FULL).
The confirmation chord C4 sounds.

**Sf00 St00 Dp7F
BenderOK
Note00 Vel100**

Headphones check

When checking headphones, test both PHONE jacks.

1. Press the "POPS/JAZZ" button to select the "Headphones check".

**TestMode MX901
HEADPHONE CHECK
HP:NG**

2. Connect the headphones to the phones jack.
Check that "OK" appears on the LCD.
3. Press any key.
Check that you can hear the test chord A4 through the headphones.
4. Remove the headphones from the jack.

**TestMode MX901
HEADPHONE CHECK
HP:OK**

MIDI check

1. Connect the MIDI IN jack to the MIDI OUT jack with a MIDI cable.
2. Press the "LATIN/WORLD" button to perform "MIDI check".
The confirmation chord C6 sounds and the message shown in the right appears.
3. Disconnect the MIDI cable.

**TestMode MX901
MIDI CHECK
MIDI:OK**

USB check

1. Connect PX-330 to the computer with a USB cable.
2. Press the "BALLAD/PIANO RHYTHM" button to perform the "USB check".
The confirmation chord C6 sounds and the message shown in the right appears.
3. Disconnect the USB cable.

**TestMode MX901
USB CHECK
USB:OK**

SD Card check

1. Insert an SD card into the SD card slot.
2. Press the "USER RHYTHMS" button to perform the "SD Card check".
The confirmation chord C6 sounds and the message shown in the right appears.
3. Remove the SD card.

**TestMode MX901
SDCARD CHECK
SDCARD:OK**

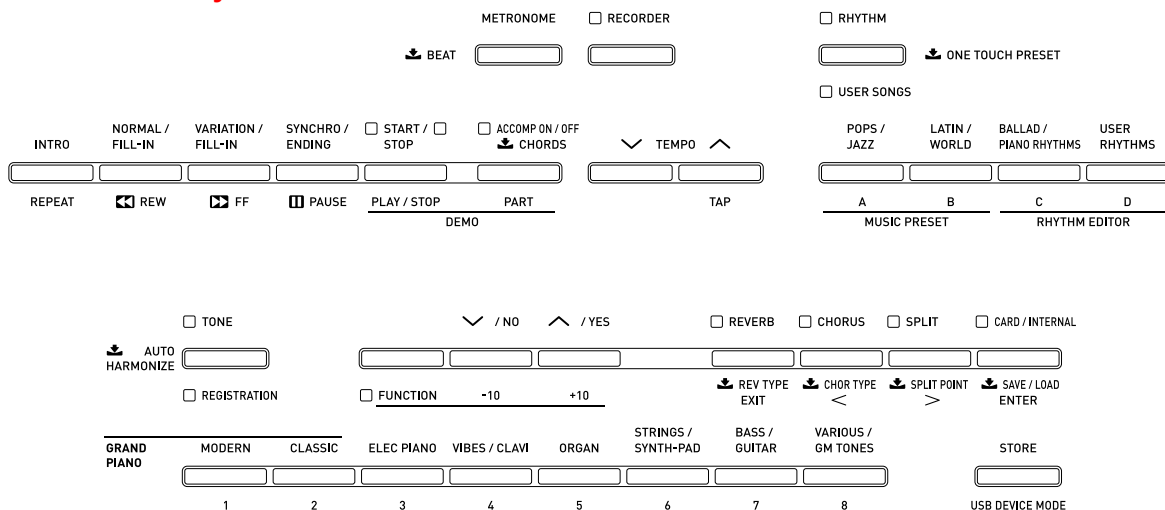
Operation after replacing the main PCB or the keyboard parts

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. 52 to 84 for the KY-ASSY or the KY-ASSY component parts

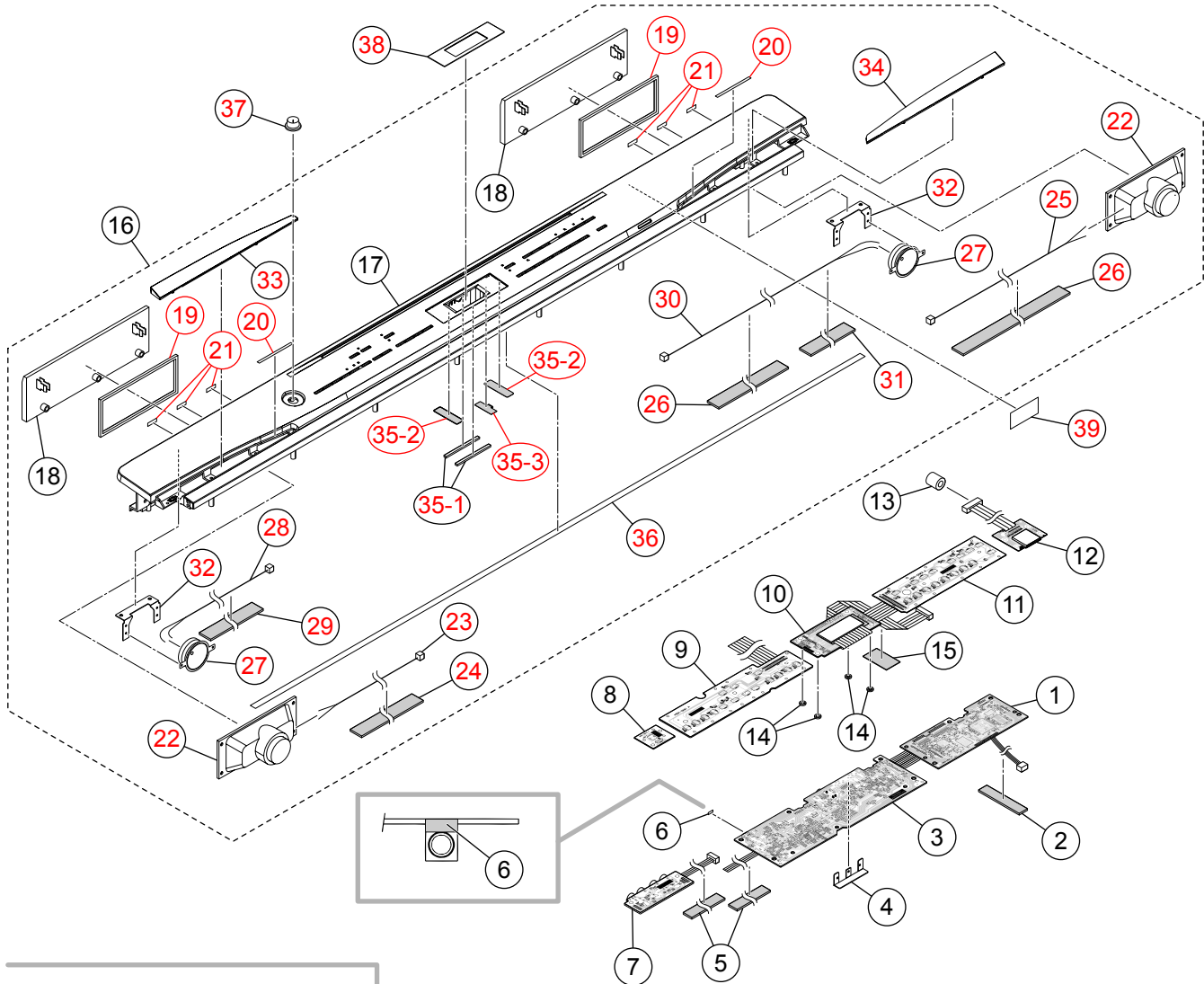
<Procedure>

1. Hold down the "v / NO", " ^ / YES", and "STORE" buttons at the same time, to turn the power ON.
The following LEDs are lit.
"TONE", FUNCTION, "REVERB", "CARD/INTERNAL", "MODERN", "CLASSIC", "ELEC PIANO", "STRINGS/SYNTH-PAD", "BASS/GUITAR", "VARIOUS/GM TONES"
2. Release the "v / NO", " ^ / YES", and "STORE" buttons.
All the LEDs turn off except "TONE" and "REVERB" LEDs.
3. Press the "REVERB" button.
The "REVERB" and "STRINGS/SYNTH-PAD" LEDs are lit.
4. Press the "STRINGS/SYNTH-PAD" button.
The "REVERB" and "BASS/GUITAR" LEDs are lit.
5. Press the "BASS/GUITAR" button.
The "REVERB" and "VARIOUS/GM TONES" LEDs are lit.
6. Press the "VARIOUS/GM TONES" button.
The following LEDs are lit.
"FUNCTION", "REVERB", "CARD/INTERNAL", "VARIOUS/GM TONES"
7. Press the "STORE" button.
8. Press the "POWER" button to turn off the power.

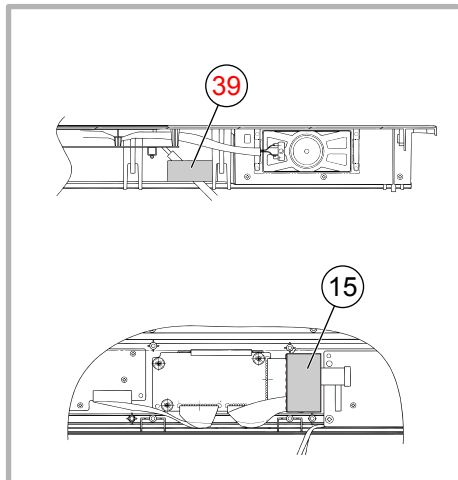
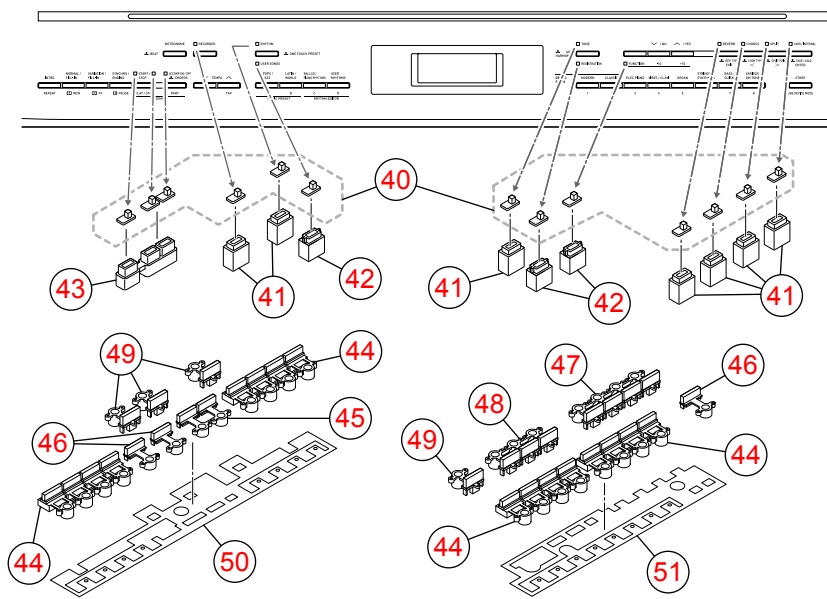
<Button & LED Layout>



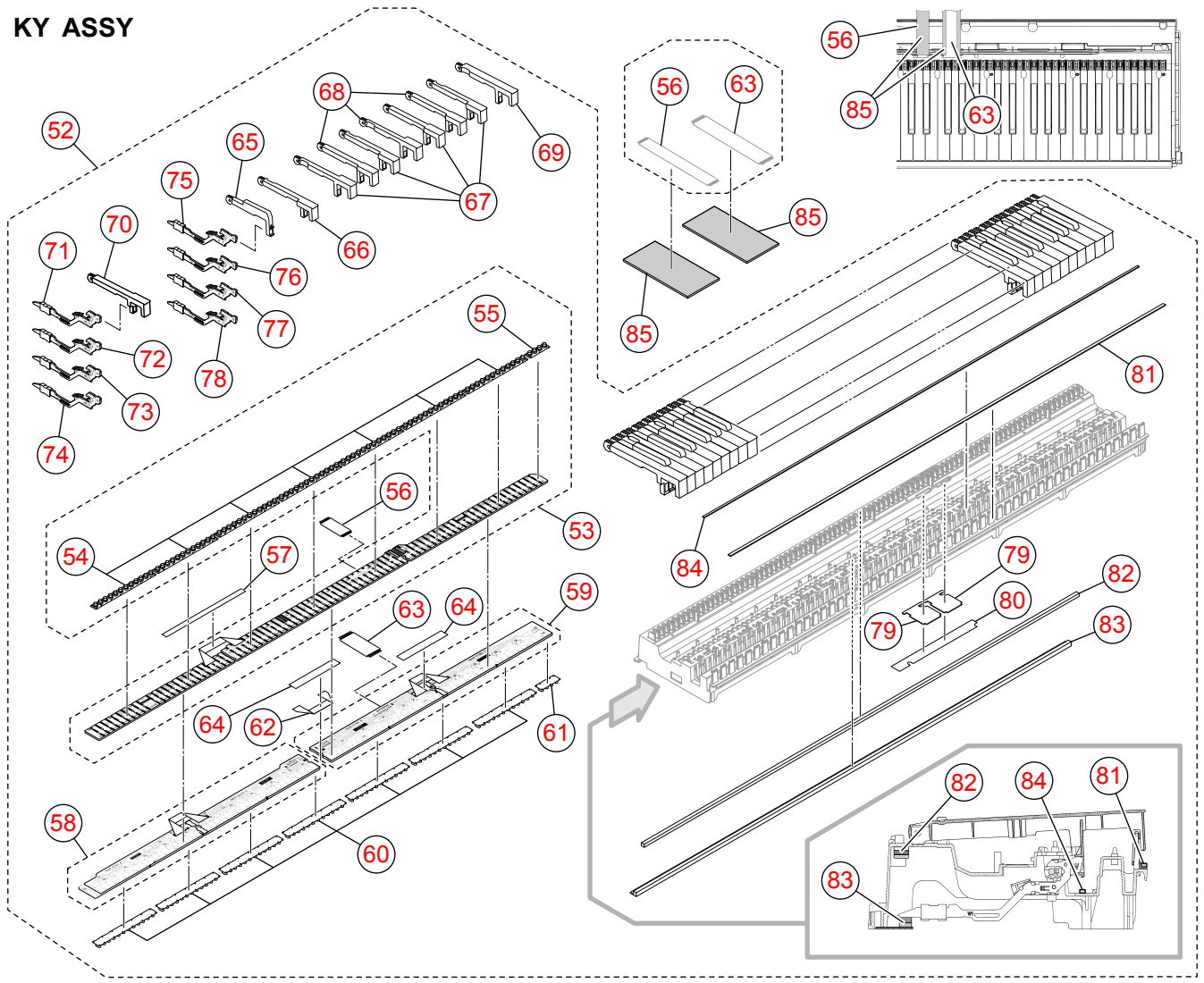
EXPLODED VIEW



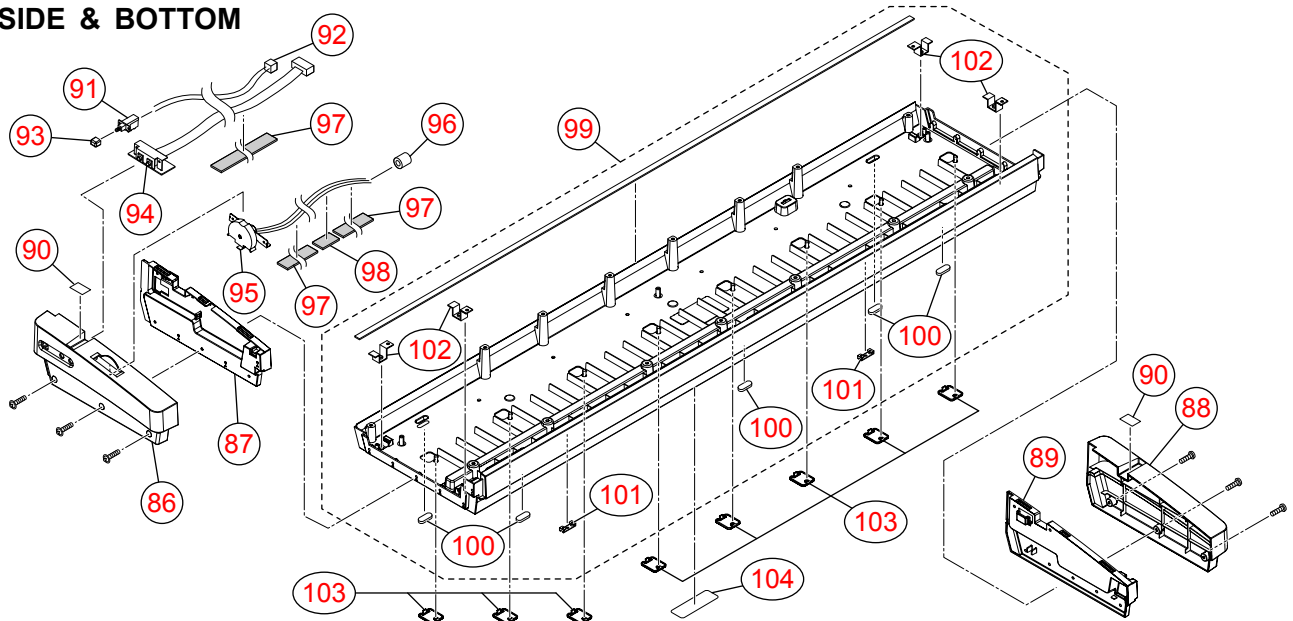
BUTTONS & BUTTON LEDs



KY ASSY



SIDE & BOTTOM



PARTS LIST

PX-330BK/PX-330WE

Notes: This parts list does not include the cosmetic parts, which parts are marked with item No. "R-X" in the exploded view.

Contact our spare parts department if you need these parts for refurbish.

1. Prices and specifications are subject to change without prior notice.
2. As for spare parts order and supply, refer to the "GUIDEBOOK for Spare parts Supply", published separately.
3. The numbers in item column correspond to the same numbers in drawing.

1: PX-330_DI
 2: PX-330_EU
 3: PX-330_UK
 4: PX-330_US

5: PX-330_WHITE_DI
 6: PX-330_WHITE_EU
 7: PX-330_WHITE_UK
 8: PX-330_WHITE_US

N	Item	Code No.	Parts Name	Specification	Q'ty								Price Code	R	Remarks
					1	2	3	4	5	6	7	8			
MAIN PCB (MDA1)															
N	1	10346441	PCB ASSY/MAIN	TK-RJM509703*001	1	1	1	1	1	1	1	1		B	MDA1
	2	69261580	SPONGE-35-150	M440499-001	1	1	1	1	1	1	1	1		X	
	CN9	10257512	CONNECTOR	UBR23-4K5G00	1	1	1	1	1	1	1	1		C	USB
N	IC11	10226394	IC	TC74VHC08FT(EL.K)	1	1	1	1	1	1	1	1		X	
N	IC10	10206819	IC	TC7SZ32FU(TE85L.F)	1	1	1	1	1	1	1	1		X	
	IC13	10256338	IC	CS4351-CZZR	1	1	1	1	1	1	1	1		X	
	IC1	10241413	IC	R1151N001C-TR-F	1	1	1	1	1	1	1	1		X	
	IC8	10123002	IC	TC74VHC174FT(EL)	1	1	1	1	1	1	1	1		X	
	IC9	10258396	IC	TC74VHC541FT(EL.K)	1	1	1	1	1	1	1	1		X	
	IC4	10197554	IC	TC7SZ126FU(TE85L.F)	1	1	1	1	1	1	1	1		X	
	IC5	10255468	LSI	MB91F036PFF-GE1	1	1	1	1	1	1	1	1		C	
	IC14	10333782	LSI	UPD65943GK-F659EUA	1	1	1	1	1	1	1	1		C	
N	IC6	10335496	MEMORY	S29GL512P10TFCR20D	1	1	1	1	1	1	1	1		C	
	IC3	10197390	MEMORY	LP62S2048AX70LLTFQ	1	1	1	1	1	1	1	1		C	
	IC2	10333111	MEMORY	MD56V82160-6TAZ03B	1	1	1	1	1	1	1	1		C	
	D31	10276977	DIODE	L1SS400T1G	1	1	1	1	1	1	1	1		X	
	L39	10193074	COIL	DLW21HN181SQ2L	1	1	1	1	1	1	1	1		X	
	Q8,Q9	69409403	TRANSISTOR	2SA1576AT106R	2	2	2	2	2	2	2	2		X	
	Q7	22592764	TRANSISTOR	2SB1188T100Q	1	1	1	1	1	1	1	1		X	
	Q10	69300298	TRANSISTOR	2SC4081T106R	1	1	1	1	1	1	1	1		X	
	X1,X31	10334293	RESONATOR	9C12000163	2	2	2	2	2	2	2	2		X	
SUB PCB (PSA1)															
N	3	10346442	PCB ASSY/PSA1	TK-RJM509704*001	1	1	1	1	1	1	1	1		C	PSA1
	4	10169597	BRACKET/JACK	RJM504221-001V01	1	1	1	1	1	1	1	1		X	
	5	69263990	SPONGE-35-190	M440556-001	2	2	2	2	2	2	2	2		X	
N	6	10048977	FABRIC TAPE	M440684-002	1	1	1	1	1	1	1	1		X	
	J203,J204	10206815	CONNECTOR	JY-6314*01-030	2	2	2	2	2	2	2	2		C	JACK for PEDAL
	J202	10334294	CONNECTOR	KM02022ABMP	1	1	1	1	1	1	1	1		A	DC JACK
	CN216	10207671	CONNECTOR	HDC-052SP-02	1	1	1	1	1	1	1	1		X	MIDI IN/OUT
	IC203	10201503	IC	PQ1CG21H2FZH	1	1	1	1	1	1	1	1		X	
	IC202	10306512	IC	TDA7297	1	1	1	1	1	1	1	1		C	
	IC201	10306415	IC	BH3547F-E2	1	1	1	1	1	1	1	1		X	
	IC204,IC205	10211950	IC	NJM2068M-D(TE1)	2	2	2	2	2	2	2	2		X	

1: PX-330_DI
 2: PX-330_EU
 3: PX-330_UK
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5: PX-330_WHITE_DI
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N	Item	Code No.	Parts Name	Specification	Q'ty								Price Code	R	Remarks
					1	2	3	4	5	6	7	8			
N	Q201-Q210, Q213	69300298	TRANSISTOR	2SC4081T106R	11	11	11	11	11	11	11	11		X	
	Q211,Q212	10305853	TRANSISTOR	KTD1304-RTK/P	2	2	2	2	2	2	2	2		X	
	L208	10231919	COIL	RB53-856396NP	1	1	1	1	1	1	1	1		X	
	L202-L204, L206,L207	10231920	COIL	RB53-856397NP	5	5	5	5	5	5	5	5		X	
	L205	10232457	COIL	RII7-860400NP	1	1	1	1	1	1	1	1		X	
	D209	10314562	PHOTO COUPLER	QCPL-M614-500E	1	1	1	1	1	1	1	1		X	
	D205,D208	10276977	DIODE	L1SS400T1G	2	2	2	2	2	2	2	2		X	
	D204	10334295	DIODE	LUDZS12BT1G	1	1	1	1	1	1	1	1		X	
	D206,D207	10308381	DIODE	LUDZS7.5BT1G	2	2	2	2	2	2	2	2		X	
	D202	10334296	DIODE	LUDZS8.2BT1G	1	1	1	1	1	1	1	1		X	
D203	10210387	DIODE	RSX101VA-30TR	1	1	1	1	1	1	1	1		X		
D201	10294394	DIODE	SK34A	1	1	1	1	1	1	1	1		X		
JACK PCB (JKA1)															
N	7	10346443	PCB ASSY/JKA1	TK-RJM509715*001	1	1	1	1	1	1	1	1		C	JKA1
	J503	10206815	CONNECTOR	JY-6314*01-030	1	1	1	1	1	1	1	1		B	LINE OUT (L)
	J501,J502, J504	10206816	CONNECTOR	JY-6314*01-130	3	3	3	3	3	3	3	3		B	LINE IN, LINE OUT (R)
	L501-L504	10231920	COIL	RB53-856397NP	4	4	4	4	4	4	4	4		X	
CONSOLE PCB (CNA1)															
N	8	10346447	PCB ASSY/CNA3	TK-RJM509711*001	1	1	1	1	1	1	1	1		X	CNA3
	VR601	10123103	VARIABLE RESISTOR	RK09K12C0D1B	1	1	1	1	1	1	1	1		B	Main volume
N	9	10346445	PCB ASSY/CNA1	TK-RJM509707*001	1	1	1	1	1	1	1	1		X	CNA1
	SW601-SW615	10337110	SWITCH	TP-1138A-10-100GF	15	15	15	15	15	15	15	15		X	
	D601-D604, D606-D614	10336974	LED	26-21/R1	13	13	13	13	13	13	13	13		X	
	D605	10336975	LED	26-21/Y1	1	1	1	1	1	1	1	1		X	
N	10	10346448	BACK LIGHT ASSY	TK-RJM509840*001	1	1	1	1	1	1	1	1		X	
N	D2	10336988	LED	HSW1142LT-13-TR	1	1	1	1	1	1	1	1		X	
N	LSI1	10291684	LSI	D78F1153GK-GAK-AX	1	1	1	1	1	1	1	1		X	
	Q3,Q27	69409403	TRANSISTOR	2SA1576AT106R	2	2	2	2	2	2	2	2		X	

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	Q1,Q2, Q25,Q26	10178530	TRANSISTOR	2SA1873-GR(TE85L.F	4	4	4	4	4	4	4	4		X	
	Q9-Q11	10209027	TRANSISTOR	KTC4076-Y-RTK/P	3	3	3	3	3	3	3	3		X	
	D3	10308381	DIODE	LUDZS7.5BT1G	1	1	1	1	1	1	1	1		X	
N	11	10346446	PCB ASSY/CNA2	TK-RJM509709*001	1	1	1	1	1	1	1	1		X	CNA2
	SW616-SW632	10337110	SWITCH	TP-1138A-10-100GF	17	17	17	17	17	17	17	17		X	
	D615-D629	10336974	LED	26-21/R1	15	15	15	15	15	15	15	15		X	
	D650	10276977	DIODE	L1SS400T1G	1	1	1	1	1	1	1	1		X	
	12	10310734	PCB ASSY/SDA1	TK-RJM508899*001	1	1	1	1	1	1	1	1		X	SDA1
	13	10208428	FERRITE CORE	CTRC-0813(B)	1	1	1	1	1	1	1	1		X	
N	14	10337091	SPACER	RJM509862-001V01	4	4	4	4	4	4	4	4		X	for SDA1
N	15	69265810	SPONGE-35-60	M440593-001	1	1	1	1	1	1	1	1		X	
PANEL UNIT															
N	16	10346444	PANEL ASSY	TK-RJM509773*001	1	1	1	1						X	
N	16	10409766	PANEL ASSY	TK-RJM509773*002					1	1	1	1		X	
N	17	10337025	PANEL	RJM509390-001V01	1	1	1	1						X	
N	17	10404274	PANEL	RJM509390-004V01					1	1	1	1		X	
	18	10341073	COVER ASSY/SPEAKER	TK-RJM509617*001	2	2	2	2						X	
N	18	10342736	COVER ASSY/SPEAKER	RJM509617*002V02					2	2	2	2		X	
	19	10175757	PACKING/10X386	RJM504743-001V01	2	2	2	2	2	2	2	2		X	
	20	10262597	DOUBLE FACED TAPE/3X50	RJM507716-001V01	2	2	2	2	2	2	2	2		X	
	21	10145912	FABRIC TAPE/5X16	RJM503705-001V01	6	6	6	6	6	6	6	6		X	
	22	10336976	SPEAKER	C0612RJ01	2	2	2	2	2	2	2	2		X	
	23	10342353	HARNESS	EF-EH2P031M900	1	1	1	1	1	1	1	1		X	for Left speaker
	24	69263990	SPONGE-35-190	M440556-001	1	1	1	1	1	1	1	1		X	
	25	10309718	HARNESS	EH-2P-59-M334	1	1	1	1	1	1	1	1		X	for Right speaker
	26	10336990	SPONGE	M410119-001	2	2	2	2	2	2	2	2		X	
	27	10305155	SPEAKER	C05JT02	2	2	2	2	2	2	2	2		X	Tweeter
N	28	10265690	HARNESS	PH-2P-50-M332	1	1	1	1	1	1	1	1		X	for Left tweeter
N	29	10336991	SPONGE-22-390	M441156-001	1	1	1	1	1	1	1	1		X	
N	30	10342355	HARNESS	EF-PH2P076M901	1	1	1	1	1	1	1	1		X	for Right tweeter
	31	69261580	SPONGE-35-150	M440499-001	1	1	1	1	1	1	1	1		X	
N	32	10337058	BRACKET/TWEETER	RJM509414-001V01	2	2	2	2	2	2	2	2		X	for Tweeter
N	33	10346449	COVER ASSY/LEFT	TK-RJM509775*001	1	1	1	1						X	
N	33	10404275	COVER ASSY/LEFT	RJM509775*002V01					1	1	1	1		X	

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N	34	10346450	COVER ASSY/RIGHT	TK-RJM509776*001	1	1	1	1						X	
N	34	10404276	COVER ASSY/RIGHT	RJM509776*002V01					1	1	1	1		X	
N	35-1	10337092	CUSHION	RJM509868-001V01	2	2	2	2	2	2	2	2		X	
N	35-2	10411432	HIMELON-13X45	RJM511739-001					2	2	2	2		X	
N	35-3	10411915	HIMELON-C-M901	RJM511740-001					1	1	1	1		X	
N	36	10337938	KEY FELT	RJM509922-001V01	1	1	1	1	1	1	1	1		X	
	37	10269765	KNOB/ROTARY	M341109-008	1	1	1	1						X	
N	37	10336989	KNOB/ROTARY	M341109-011					1	1	1	1		X	
N	38	10337079	PLATE/DISPLAY	RJM509588-001V01	1	1	1	1						X	
N	38	10404264	PLATE/DISPLAY	RJM509588-002V01					1	1	1	1		X	
N	39	10047591	FABRIC TAPE-30-60	M441248-001	1	1	1	1	1	1	1	1		X	
N	40	10337054	COVER/LED	RJM509410-001V01	13	13	13	13						X	
N	40	10404267	COVER/LED	RJM509410-002V01					13	13	13	13		X	
N	41	10337055	SPACER/LED/A	RJM509411-001V01	7	7	7	7	7	7	7	7		X	
N	42	10337056	SPACER/LED/B	RJM509412-001V01	3	3	3	3	3	3	3	3		X	
N	43	10337057	SPACER/LED/C	RJM509413-001V01	1	1	1	1	1	1	1	1		X	
N	44	10337051	BUTTON/TACT/A	RJM509408-001V01	4	4	4	4						X	
N	44	10404273	BUTTON/TACT/A	RJM509408-003V01					4	4	4	4		X	
N	45	10337029	BUTTON/TACT/B	RJM509396-001V01	1	1	1	1						X	
N	45	10404268	BUTTON/TACT/B	RJM509396-003V01					1	1	1	1		X	
N	46	10337030	BUTTON/TACT/B	RJM509396-002V01	3	3	3	3						X	
N	46	10404269	BUTTON/TACT/B	RJM509396-004V01					3	3	3	3		X	
N	47	10337031	BUTTON/TACT/C	RJM509397-001V01	1	1	1	1						X	
N	47	10404270	BUTTON/TACT/C	RJM509397-004V01					1	1	1	1		X	
N	48	10337032	BUTTON/TACT/C	RJM509397-002V01	1	1	1	1						X	
N	48	10404271	BUTTON/TACT/C	RJM509397-005V01					1	1	1	1		X	
N	49	10337033	BUTTON/TACT/C	RJM509397-003V01	4	4	4	4						X	
N	49	10404272	BUTTON/TACT/C	RJM509397-006V01					4	4	4	4		X	
N	50	10346399	FABRIC TAPE	RJM509545-001V02	1	1	1	1	1	1	1	1		X	
N	51	10346400	FABRIC TAPE	RJM509546-001V02	1	1	1	1	1	1	1	1		X	
KEYBOARD ASSY															
	52	10347077	KEY UNIT	TK-RJM510156*002	1	1	1	1	1	1	1	1		B	
	53	10340880	PCB ASSY/KYC,KYD	TK-RJM509609*001	1	1	1	1	1	1	1	1		C	KYC,KYD
	D601-D628, D801-D818	10301580	DIODE	LM1MA142WAT1G	46	46	46	46	46	46	46	46		X	

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	54	10355627	RUBBER CONTACT/AG1	RJM509219-002V02	7	7	7	7	7	7	7	7		A	
	55	10355628	RUBBER CONTACT/GC1	RJM509220-002V02	1	1	1	1	1	1	1	1		A	
	56	10336109	CABLE	UL2896-20-280-MACP	1	1	1	1	1	1	1	1		X	
	57	10334298	FABRIC TAPE-15X270	M411937-001	1	1	1	1	1	1	1	1		X	
	58	10341198	PCB ASSY/KYA	TK-RJM509622*001	1	1	1	1	1	1	1	1		C	
	D601-D644	10294400	DIODE	LM1MA142WKT1G	44	44	44	44	44	44	44	44		X	
	59	10341199	PCB ASSY/KYB	TK-RJM509624*001	1	1	1	1	1	1	1	1		C	
	D801-D844	10294400	DIODE	LM1MA142WKT1G	44	44	44	44	44	44	44	44		X	
	60	10362570	RUBBER CONTACT/AG2	RJM509217-002V03	7	7	7	7	7	7	7	7		A	
	61	10362571	RUBBER CONTACT/GC2	RJM509218-002V02	1	1	1	1	1	1	1	1		A	
N	62	10336111	CABLE	UL2896-20-120-MACP	1	1	1	1	1	1	1	1		X	
N	63	10336108	CABLE	UL2896-30-265-MACP	1	1	1	1	1	1	1	1		X	
	64	10164446	FABRIC TAPE-20-120	RJM502073-002V01	2	2	2	2	2	2	2	2		X	
	65	10135317	BLACK KEY	RJM502797-001V01	36	36	36	36	36	36	36	36		A	
	66	10135428	WHITE KEY/B	RJM502794-001V01	1	1	1	1	1	1	1	1		A	
	67	10135426	WHITE KEY/CEGB	RJM502862-001V01	7	7	7	7	7	7	7	7		A	
	68	10135427	WHITE KEY/DFA	RJM502863-001V01	7	7	7	7	7	7	7	7		A	
	69	10337004	WHITE KEY/SC	RJM502796-003V03	1	1	1	1	1	1	1	1		A	
	70	10337003	WHITE KEY/SA	RJM502795-003V03	1	1	1	1	1	1	1	1		A	
	71	10341062	HAMMER ASSY/W1	TK-RJM509600*001	13	13	13	13	13	13	13	13		C	
	72	10341063	HAMMER ASSY/W2	TK-RJM509601*001	13	13	13	13	13	13	13	13		C	
	73	10341064	HAMMER ASSY/W3	TK-RJM509602*001	13	13	13	13	13	13	13	13		C	
	74	10341065	HAMMER ASSY/W4	TK-RJM509603*001	13	13	13	13	13	13	13	13		C	
	75	10341066	HAMMER ASSY/B1	TK-RJM509604*001	9	9	9	9	9	9	9	9		C	
	76	10341067	HAMMER ASSY/B2	TK-RJM509605*001	9	9	9	9	9	9	9	9		C	
	77	10341068	HAMMER ASSY/B3	TK-RJM509606*001	9	9	9	9	9	9	9	9		C	
	78	10341069	HAMMER ASSY/B4	TK-RJM509607*001	9	9	9	9	9	9	9	9		C	
	79	10388000	PLATE	RJM510952-001V01	2	2	2	2	2	2	2	2		X	
N	80	10343387	FABRIC TAPE	RJM510100-001V01	1	1	1	1	1	1	1	1		X	
	81	10138691	FELT/KEY	RJM503562-001V01	1	1	1	1	1	1	1	1		X	
	82	10334393	FELT/HAMMER	RJM509655-001V01	1	1	1	1	1	1	1	1		X	
	83	10294093	FELT ASSY/HAMMER	TK-RJM507910*001	1	1	1	1	1	1	1	1		X	
	84	10340855	FELT/KEY	RJM510067-001V01	1	1	1	1	1	1	1	1		X	
N	85	69287160	SPONGE-50-180	M440961-1	2	2	2	2	2	2	2	2		X	

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CASE UNIT															
N	86	10337040	SIDE CASE/LEFT	RJM509404-002V01	1	1	1	1						X	
N	86	10404263	SIDE CASE/LEFT	RJM509404-008V01					1	1	1	1		X	
N	87	10337046	SIDE CASE/LEFT INNER	RJM509406-002V01	1	1	1	1						X	
N	87	10401514	SIDE CASE/LEFT INNER	RJM509406-004V01					1	1	1	1		X	
N	88	10337043	SIDE CASE/RIGHT	RJM509405-002V01	1	1	1	1						X	
N	88	10401513	SIDE CASE/RIGHT	RJM509405-005V01					1	1	1	1		X	
N	89	10337049	SIDE CASE/RIGHT INNER	RJM509407-002V01	1	1	1	1						X	
N	89	10401515	SIDE CASE/RIGHT INNER	RJM509407-004V01					1	1	1	1		X	
	90	10305236	FABRIC TAPE-30X20	M411136-003	2	2	2	2	2	2	2	2		X	
	91	10334406	SWITCH	SDDL1017U	1	1	1	1	1	1	1	1		C	for Power
N	92	10342354	HARNESS	EF-EH3P065M900	1	1	1	1	1	1	1	1		X	
	93	69245260	BUTTON/POWER	M340318-001	1	1	1	1	1	1	1	1		X	Key top
	94	10341075	PWB-UNIT-M900-HPA1	TK-RJM509834*001	1	1	1	1	1	1	1	1		C	HPA1
	J601,J602	10208979	JACK/HEADPHONE	JY-3567*01-070	2	2	2	2	2	2	2	2		B	
	L601,L602	10231919	COIL	RB53-856396NP	2	2	2	2	2	2	2	2		X	
N	95	10346440	BENDER ASSY	TK-RJM504468*007	1	1	1	1	1	1	1	1		X	
	96	10204256	FERRITE CORE	TRCN16-13	1	1	1	1	1	1	1	1		X	
	97	10187096	SPONGE-40-510	RJM505302-001V01	3	3	3	3	3	3	3	3		X	
	98	10078918	SPONGE-40-100	M440962-001	1	1	1	1	1	1	1	1		X	
N	99	10346451	CASE ASSY/LOWER	TK-RJM509634*002	1	1	1	1						X	
N	99	10409767	CASE ASSY/LOWER	TK-RJM509634*005					1	1	1	1		X	
	100	10133655	RUBBER FOOT	RJM503180-001V01	5	5	5	5	5	5	5	5		X	
	101	10201509	BRACKET/B	RJM505932-001V01	2	2	2	2	2	2	2	2		X	
	102	10201510	BRACKET/C	RJM505933-001V01	4	4	4	4	4	4	4	4		X	
	103	10337052	COVER/LOWER	RJM509409-001V01	8	8	8	8						X	
N	103	10404265	COVER/LOWER	RJM509409-003V01					8	8	8	8		X	
N	104	10337014	LABEL/RATING	RJM504373-027V01	1	1	1	1						X	
N	104	10405358	LABEL/RATING	RJM504373-066V02					1	1	1	1		X	

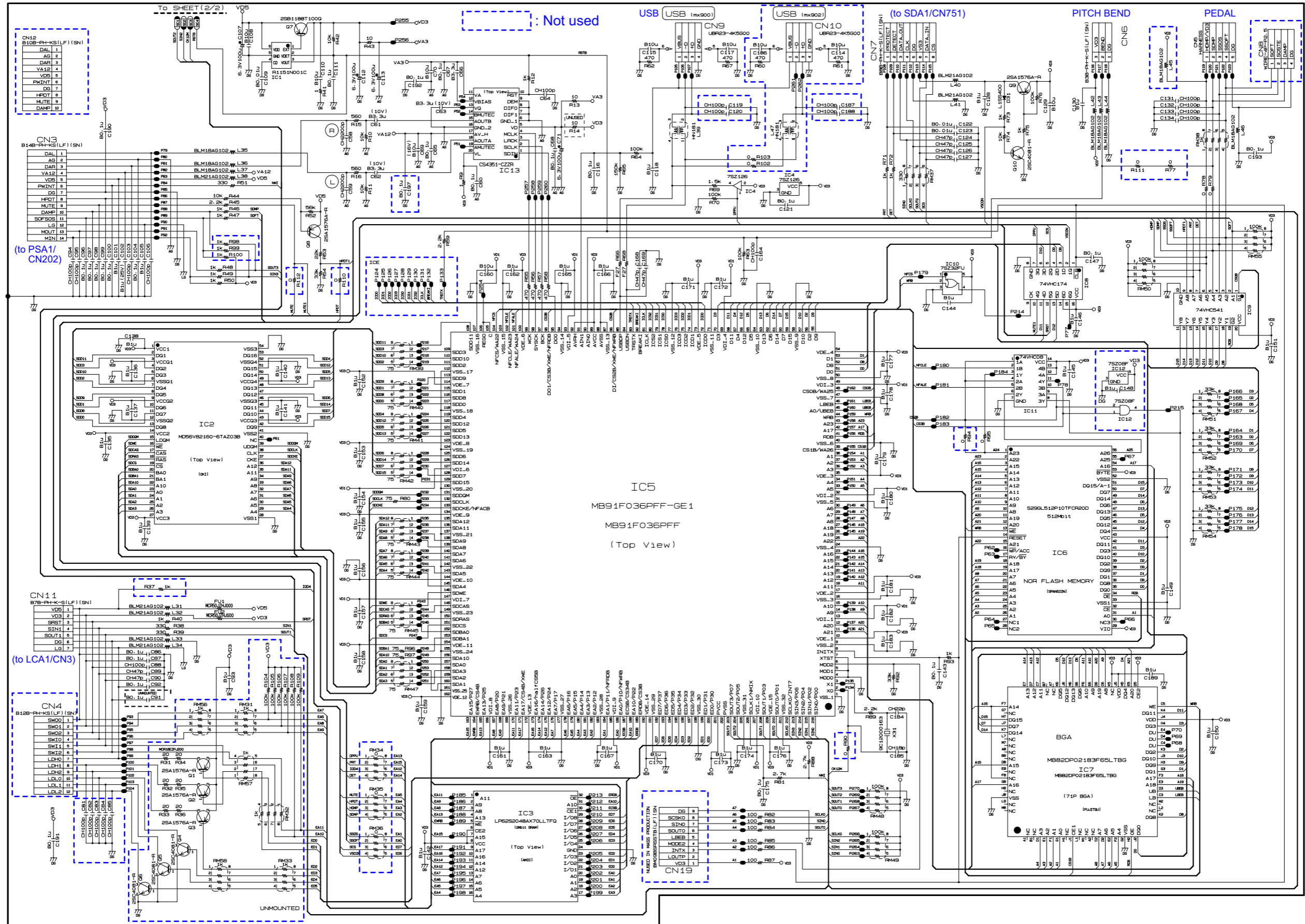
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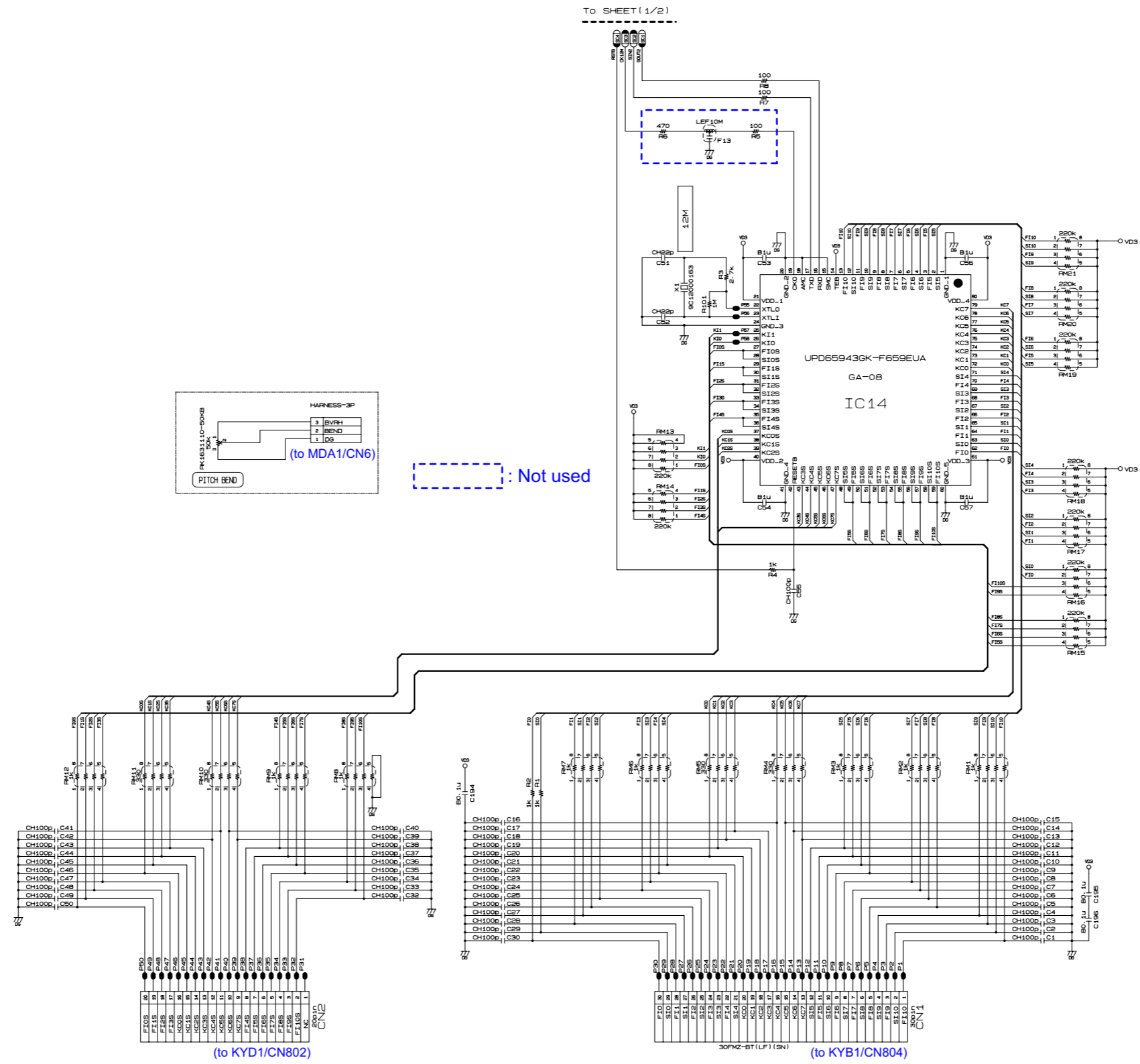
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ACCESSORIES															
	-	10392266	AC ADAPTOR	AD-A12150LW-F3	1	1	1	1	1	1	1	1		A	wihtout AC CORD
	-	10361066	AC CORD	UC2LT-M006A	1			1	1			1		C	US type
	-	10361067	AC CORD	EC2LT-M002A	1	1			1	1				C	EU type
	-	10361068	AC CORD	KC2LT-M002A	1				1					C	Korea type
	-	10361069	AC CORD	AUC2LT-M002A	1				1					C	Australia type
	-	10361070	AC CORD	BC2LT-M002A			1					1		C	UK type
	-	10342718	MUSIC STAND	RJM508666-001V04	1	1	1	1						C	
N	-	10342719	MUSIC STAND	RJM508666-002V04					1	1	1	1		C	
	-	10371588	DUST COVER	RJM506261-001V02	1				1					X	
	-	10133504	PEDAL SP-3	TK-RJM503195*001	1	1	1	1	1	1	1	1		X	

SCHEMATIC DIAGRAMS

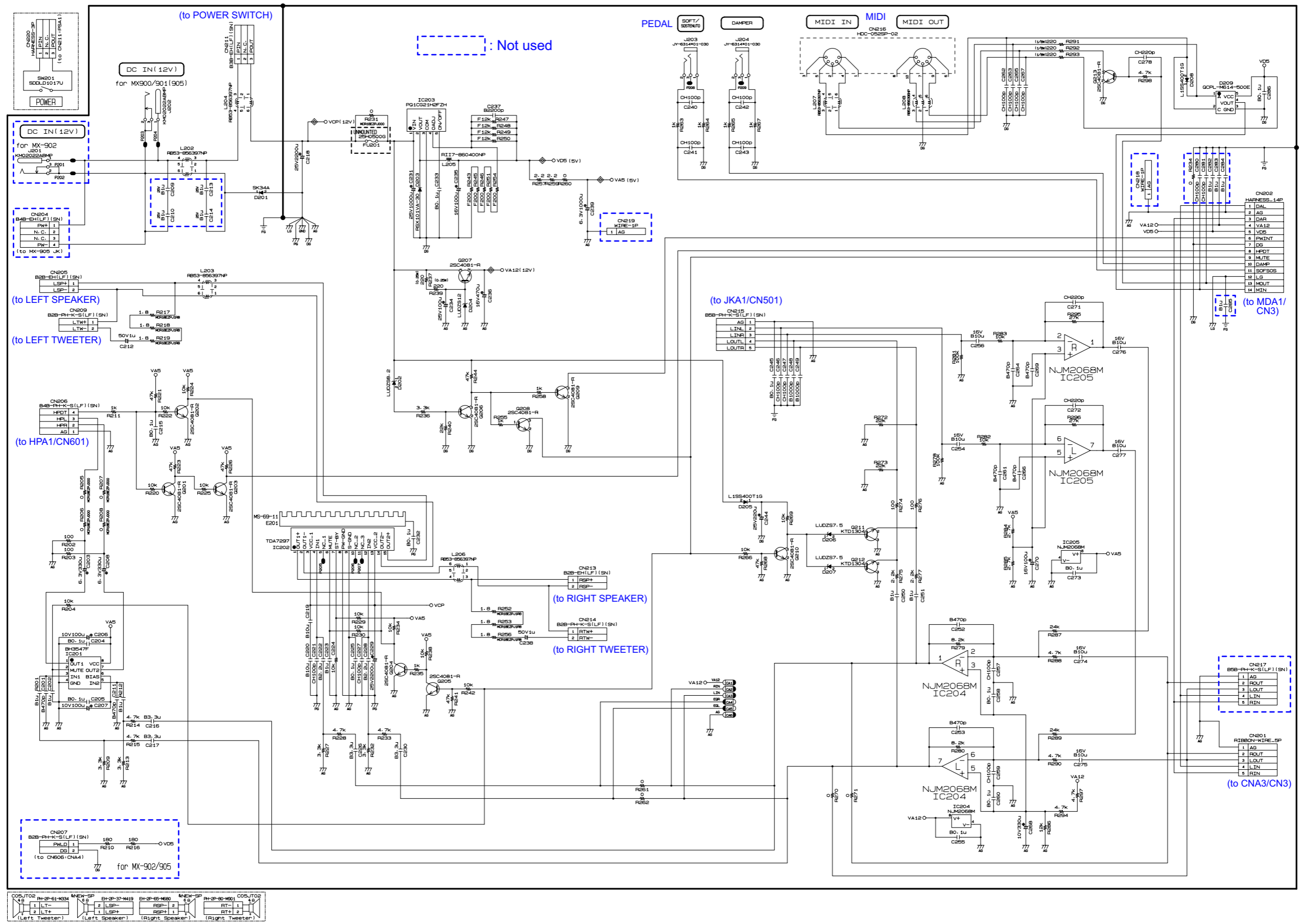
Main PCB M900-MDA1 (1/2)



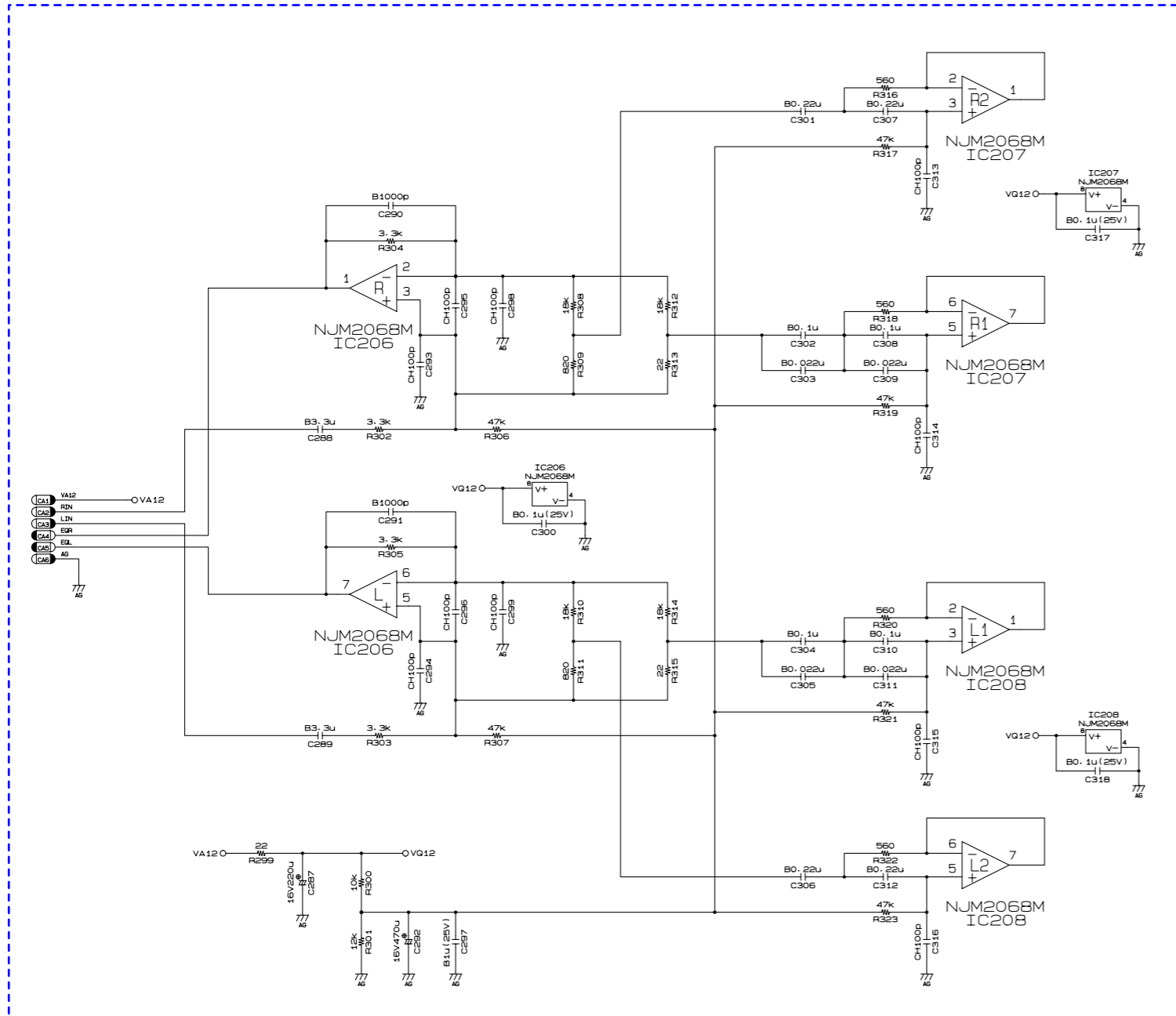
Main PCB M900-MDA1 (2/2)



Sub PCB M900-PSA1 (1/2)



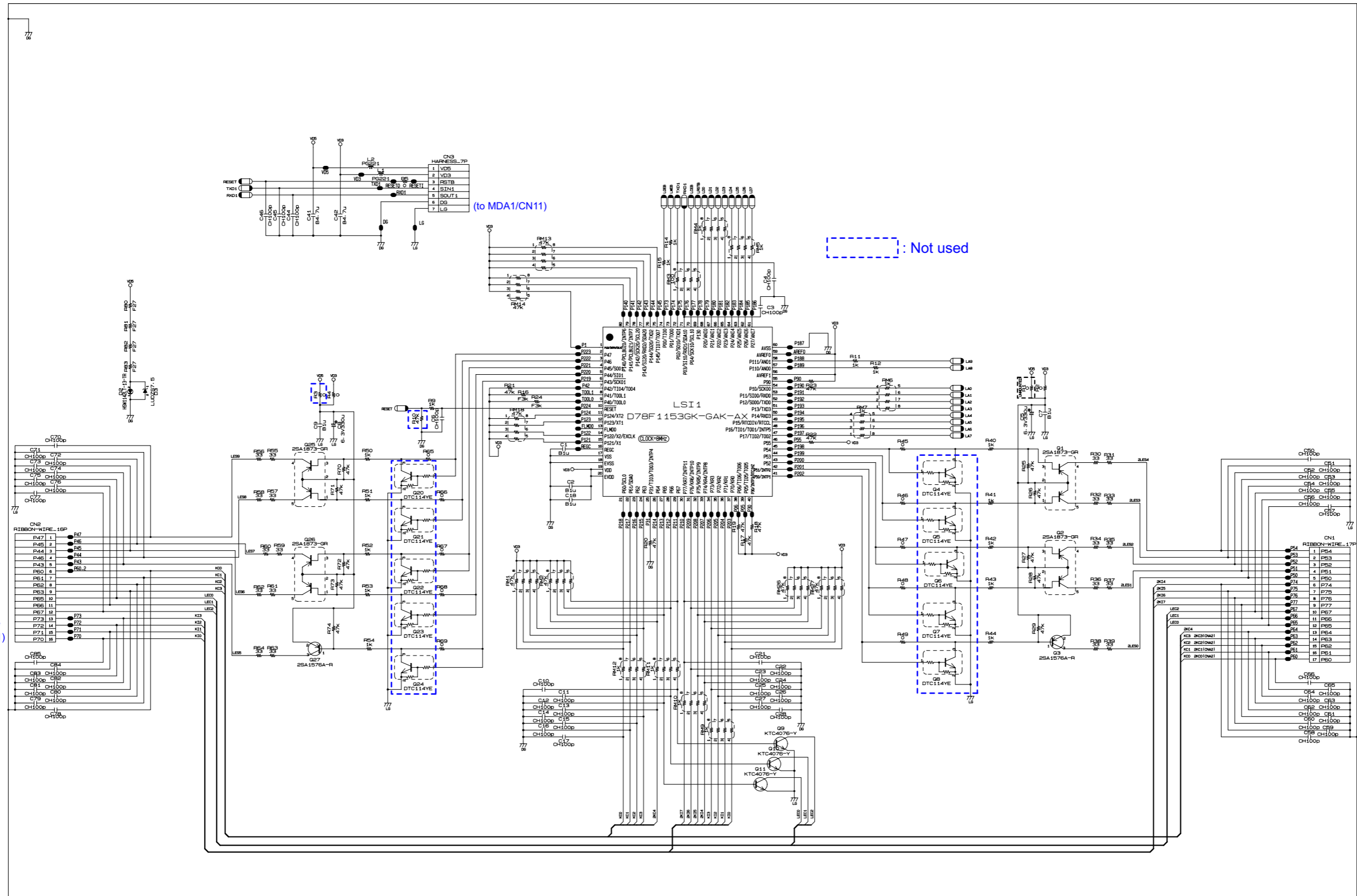
Sub PCB M900-PSA1 (2/2)



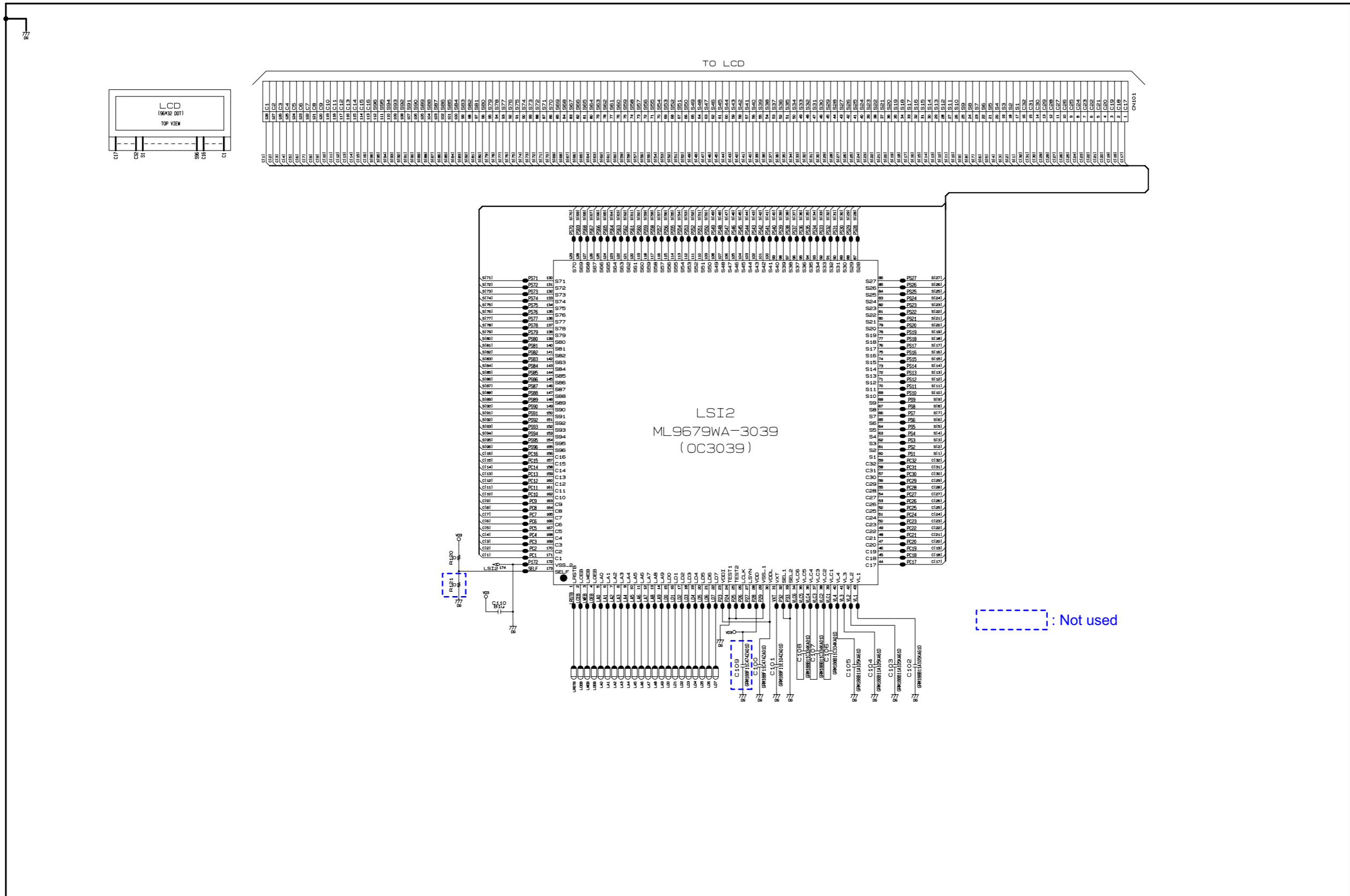
JUMPER RESISTOR											
1608 SIZE	3216 SIZE										
R510	R401	R411	R421	R431	R441	R451	R471	R481	R491	R501	R521
R511	R402	R412	R422	R432	R442	R452	R472	R482	R492	R502	R522
R512	R403	R413	R423	R433	R443	R453	R473	R483	R493	R503	R523
R513	R404	R414	R424	R434	R444	R454	R474	R484	R494	R504	R524
R514	R405	R415	R425	R435	R445	R455	R475	R485	R495	R505	
R515	R406	R416	R426	R436	R446	R456	R476		R496	R506	
R516	R407	R417	R427	R437	R447	R457	R477	R487	R497	R507	
	R408	R418	R428	R438	R448		R478	R488		R508	
	R409	R419	R429	R439	R449		R479	R489	R499	R509	
	R410	R420	R430	R440	R450			R490	R500		

: Not used

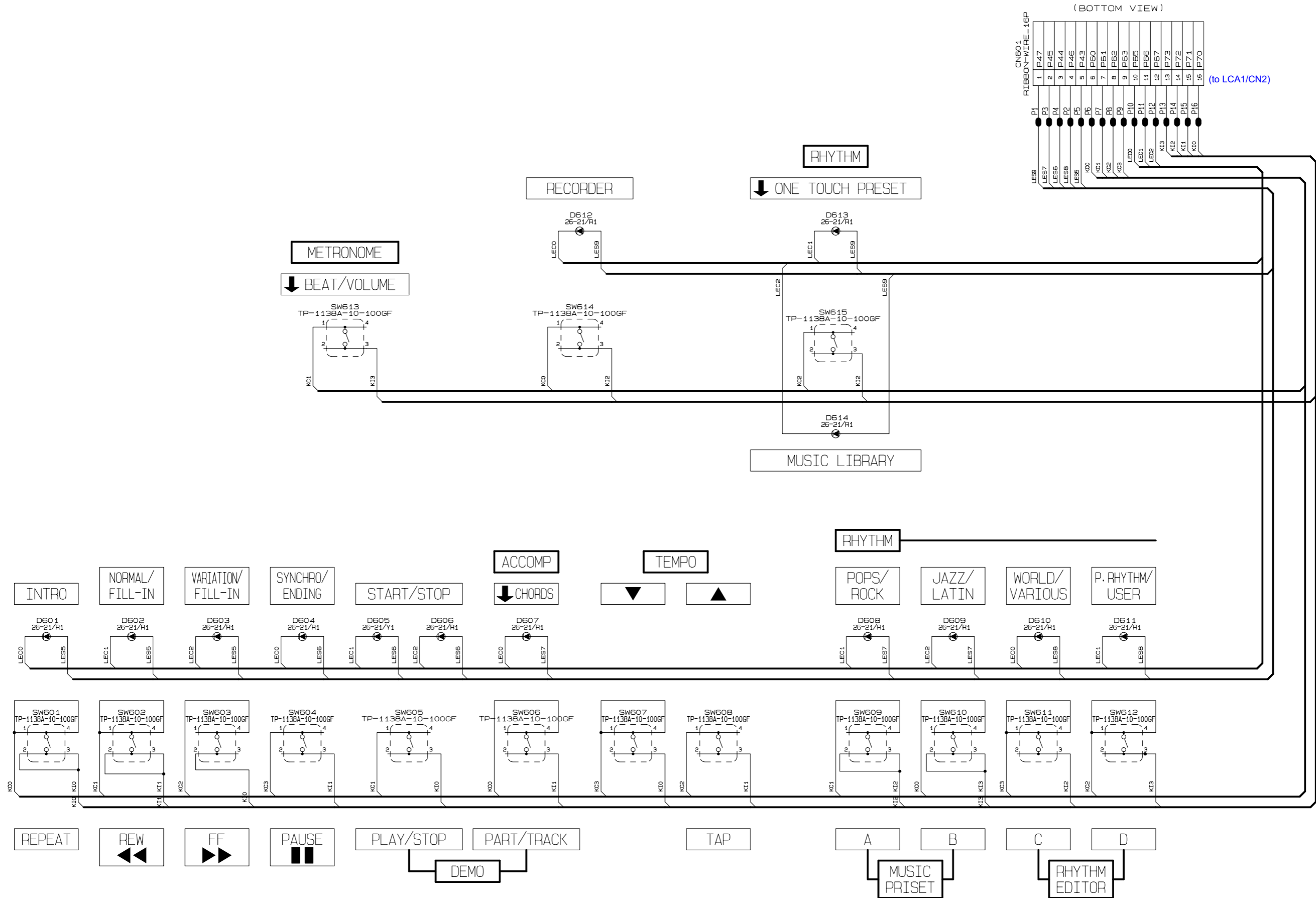
Console PCB M901-LCA1 (1/2)



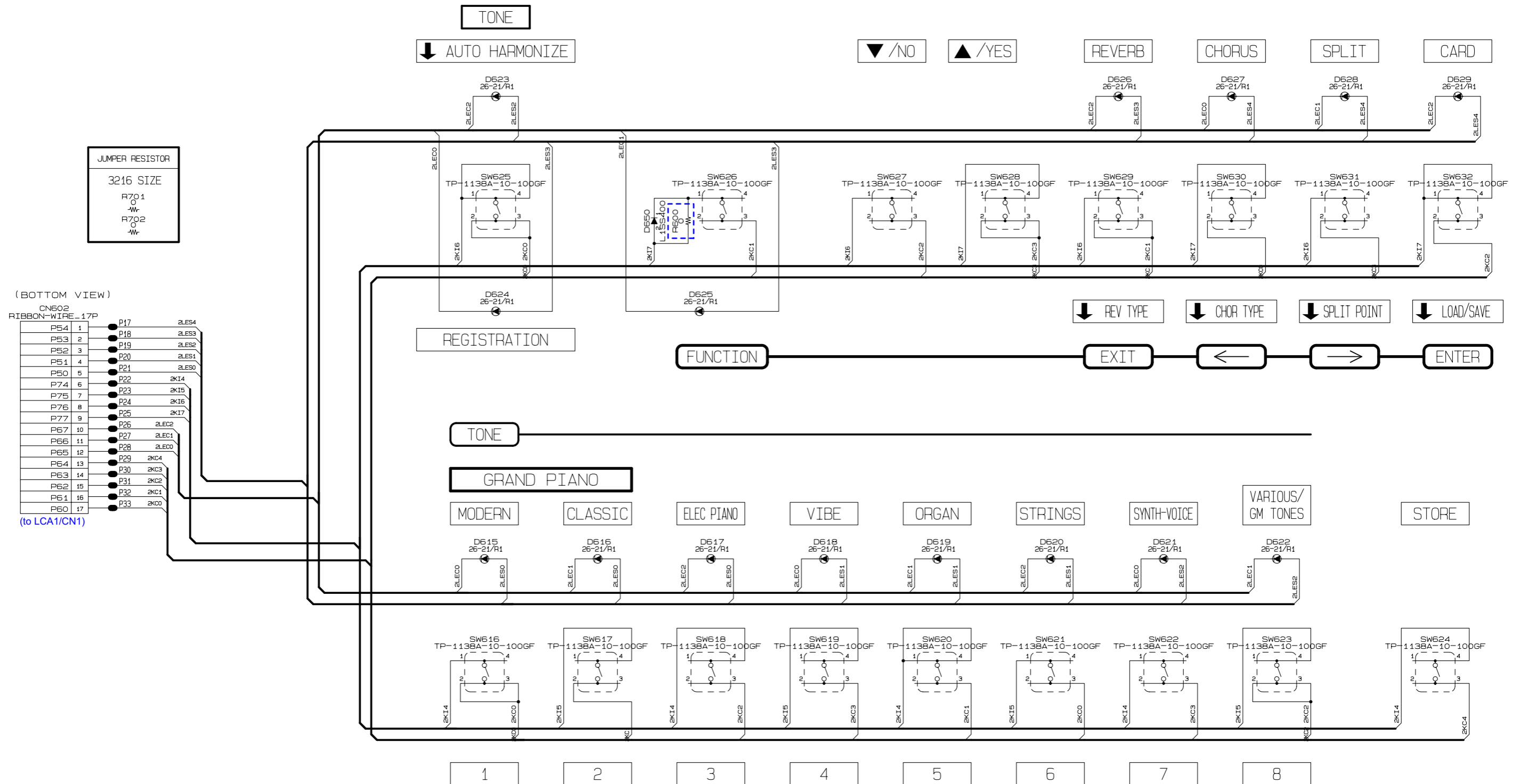
Console PCB M901-LCA1 (2/2)



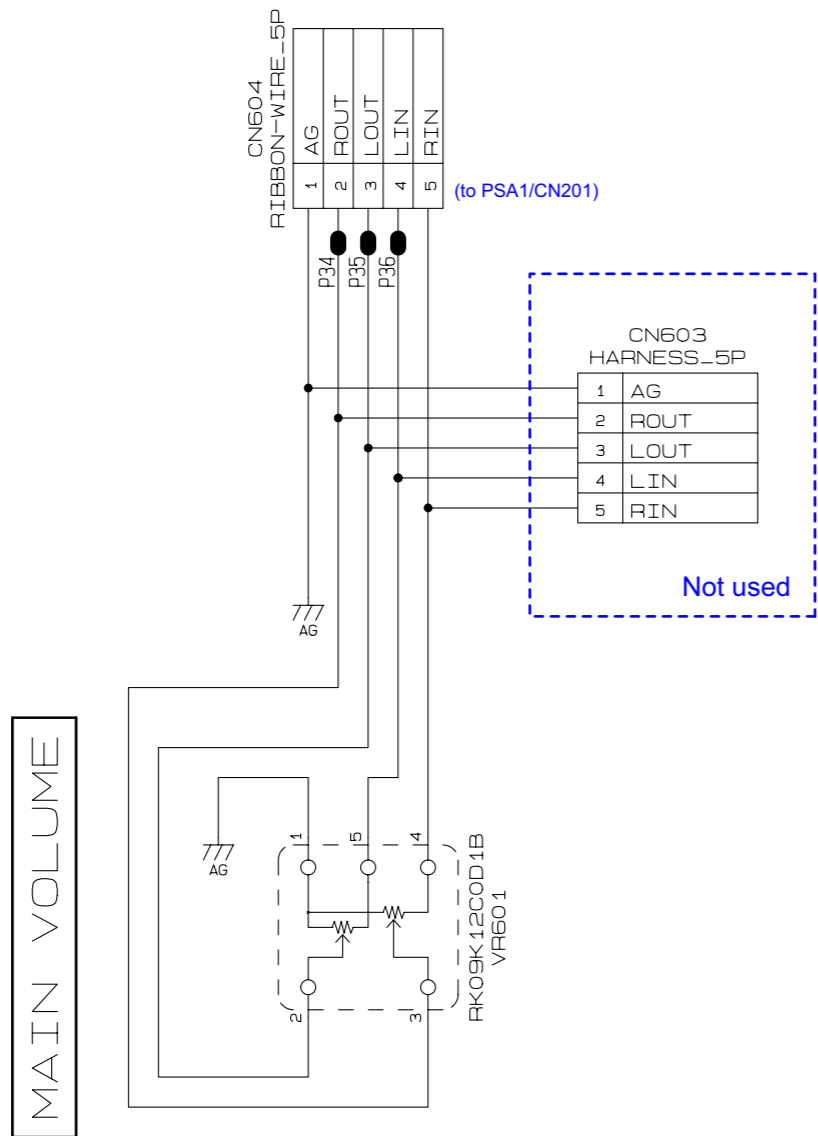
Console PCB M901-CNA1



Console PCB M901-CNA2



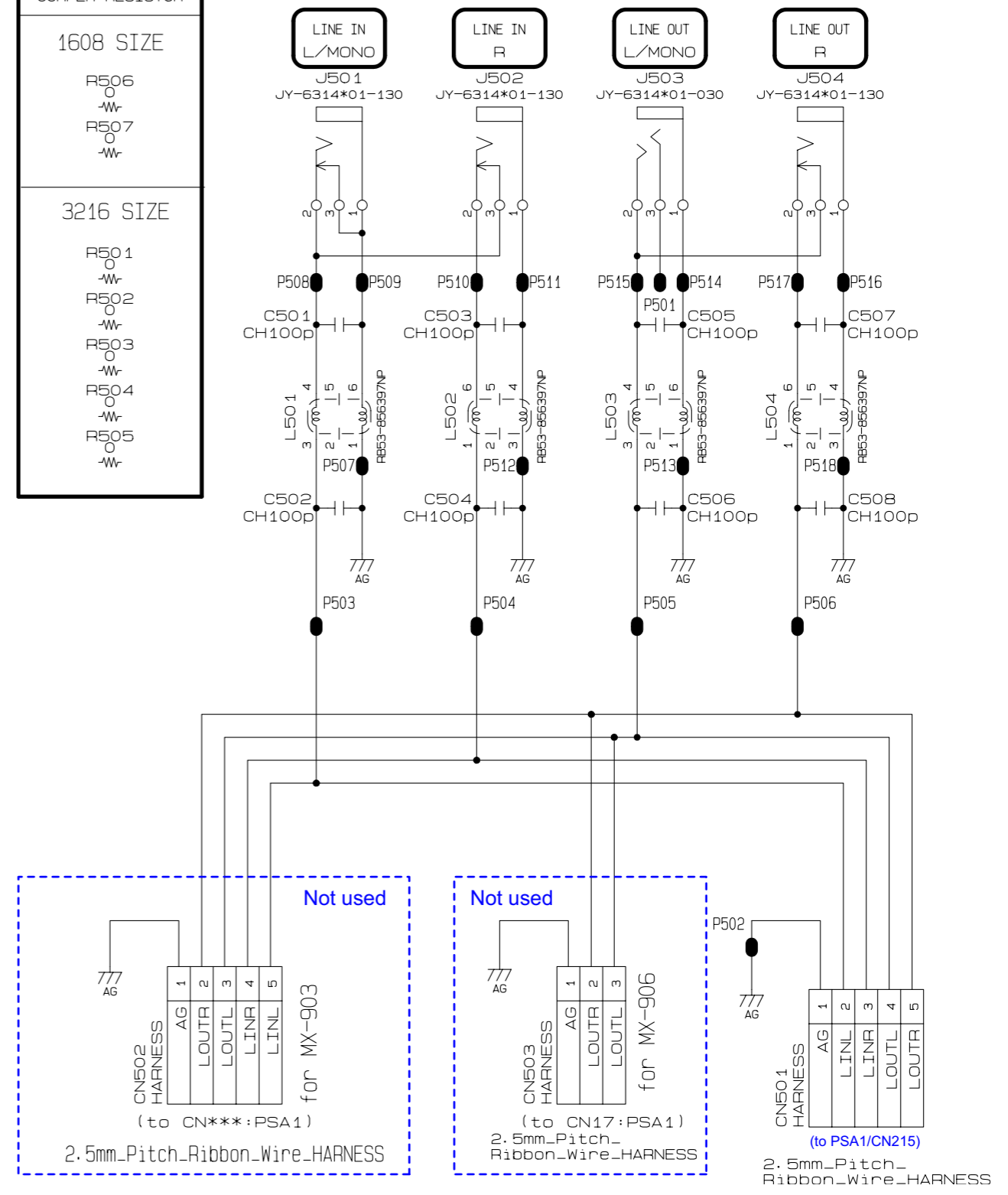
Jack PCB M901-CNA3



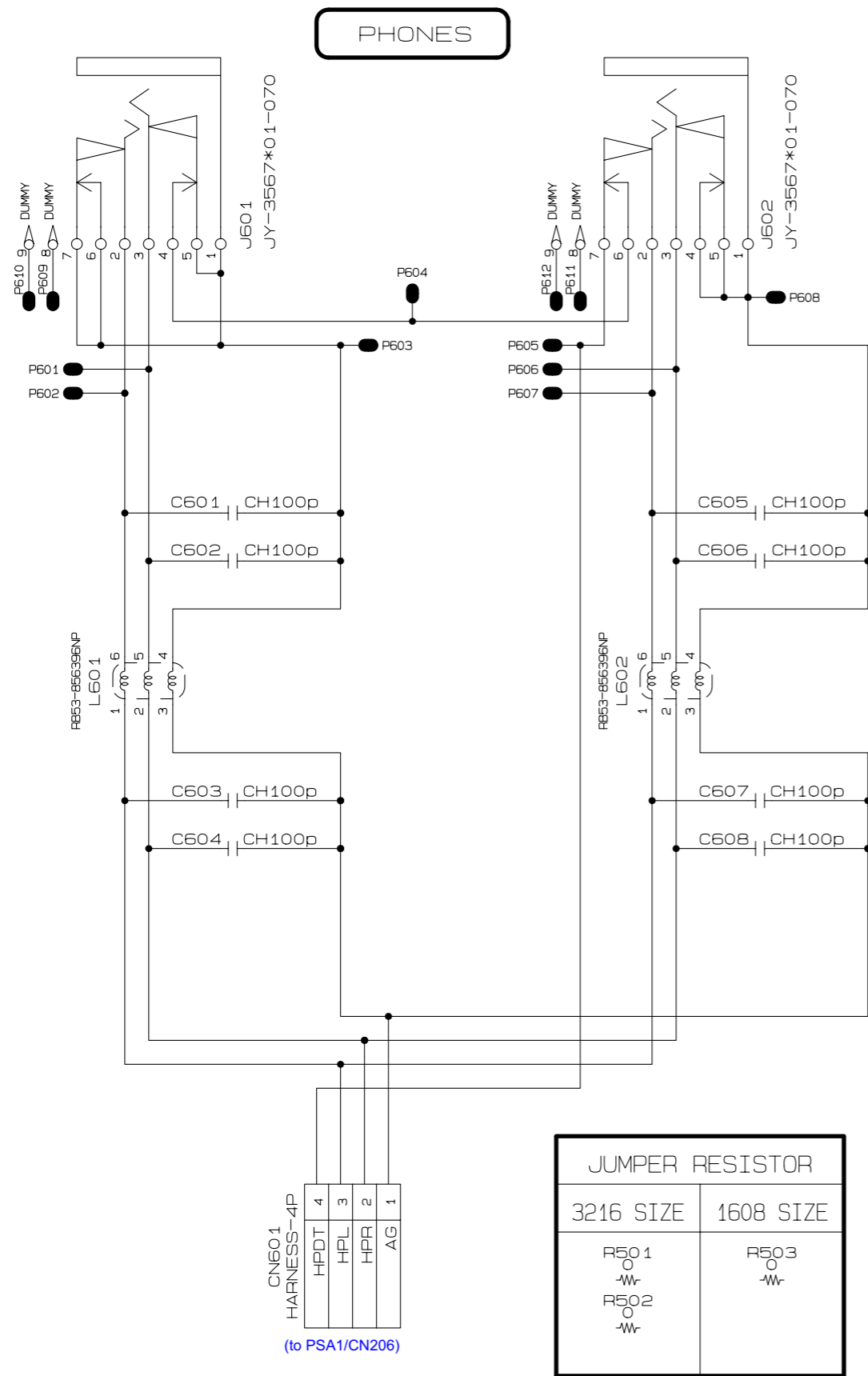
MAIN VOLUME

Jack PCB M901-JKA1

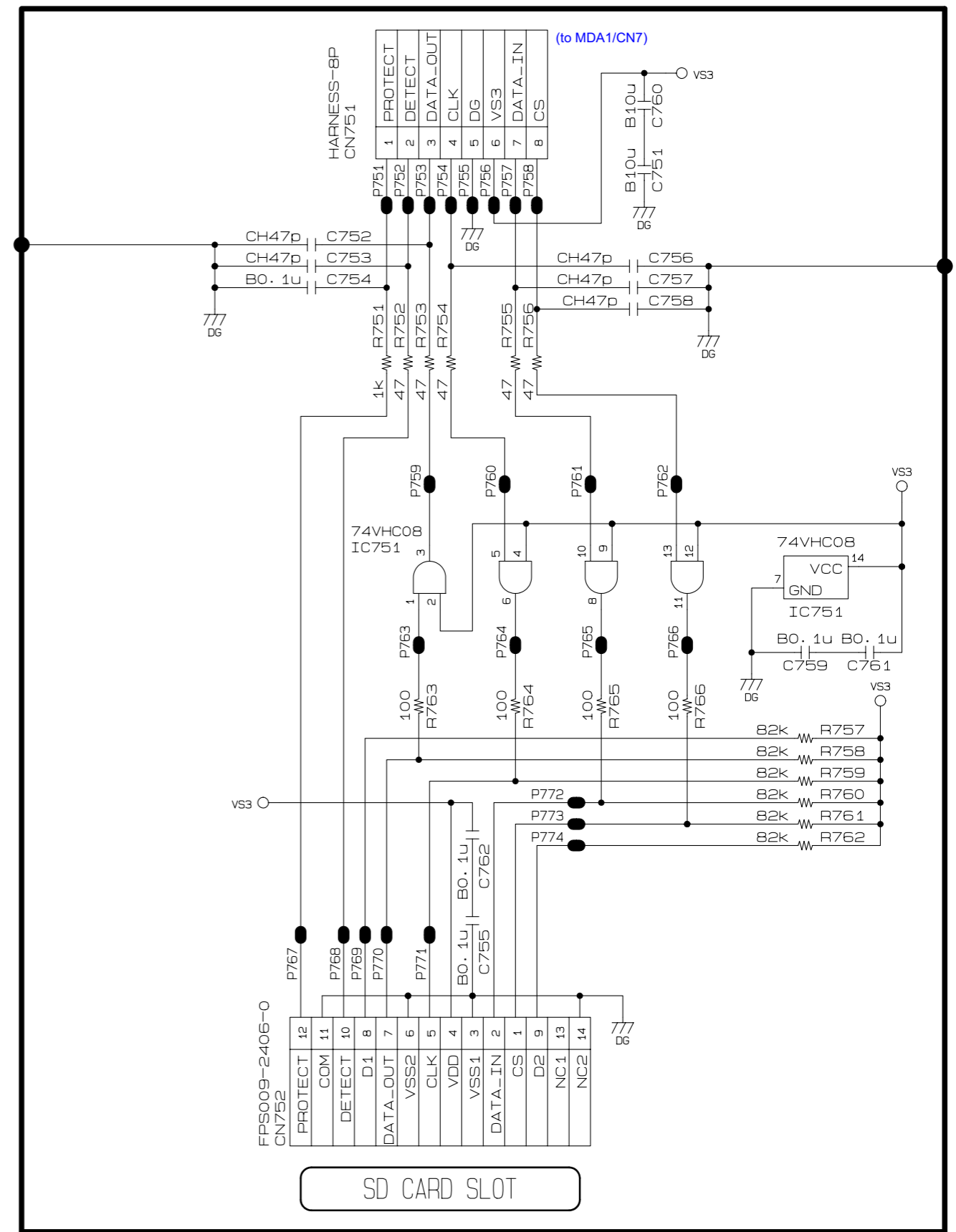
JUMPER RESISTOR	
1608 SIZE	R506 -W- R507 -W-
3216 SIZE	R501 -W- R502 -W- R503 -W- R504 -W- R505 -W-



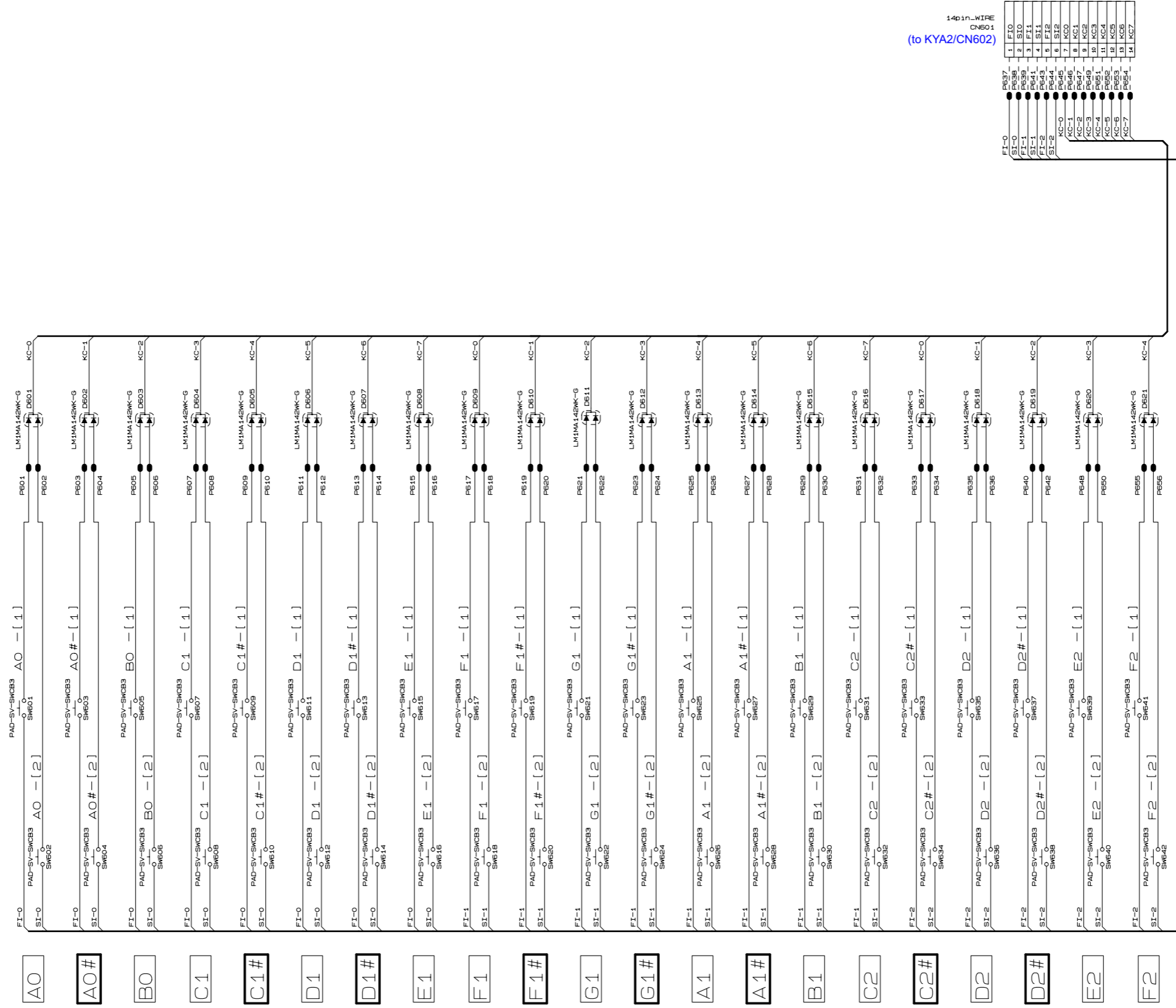
Jack PCB M900-HPA1



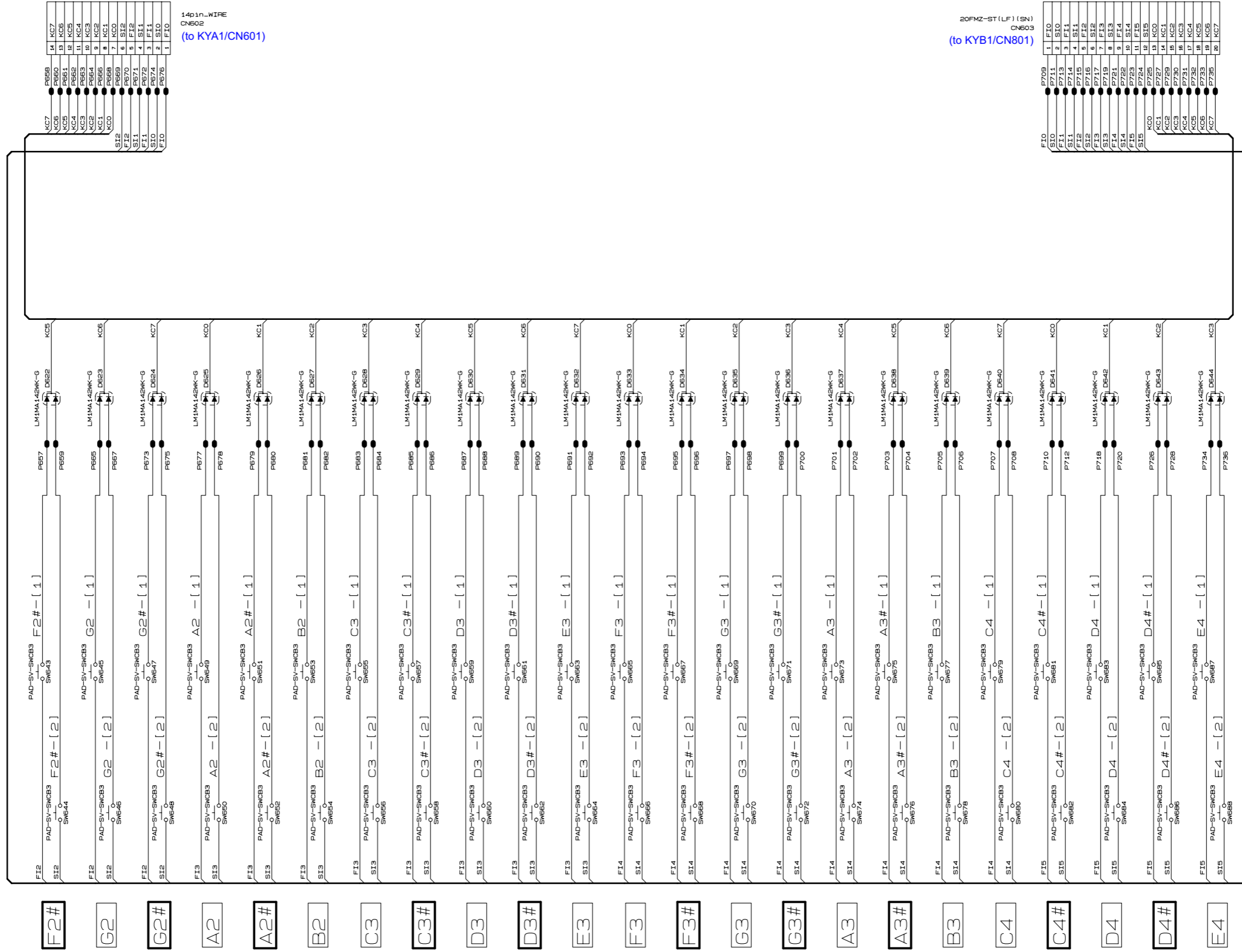
SD Card PCB M810-SDA1



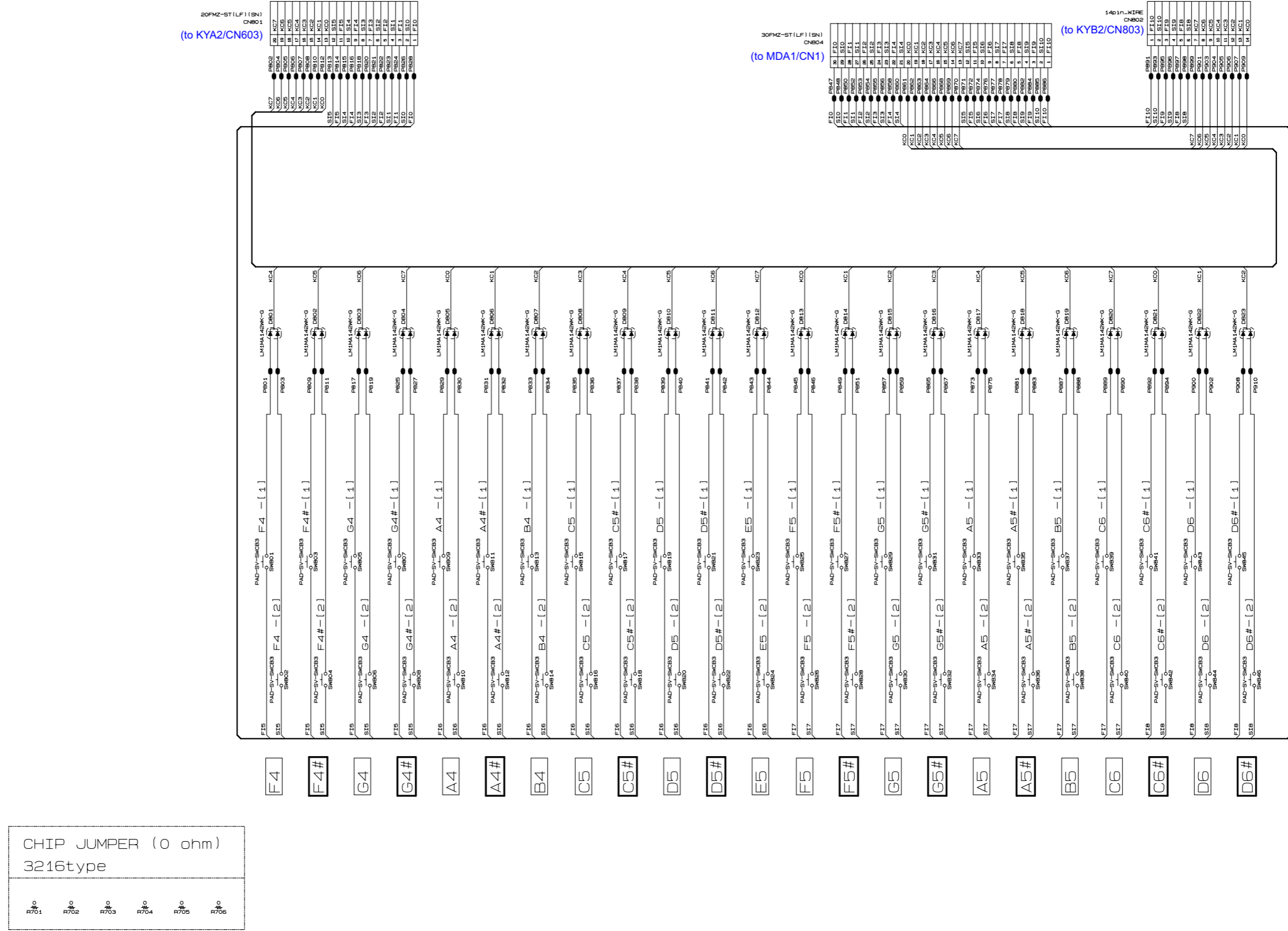
PWB-MACP-KYA1



PWB-MACP-KYA2

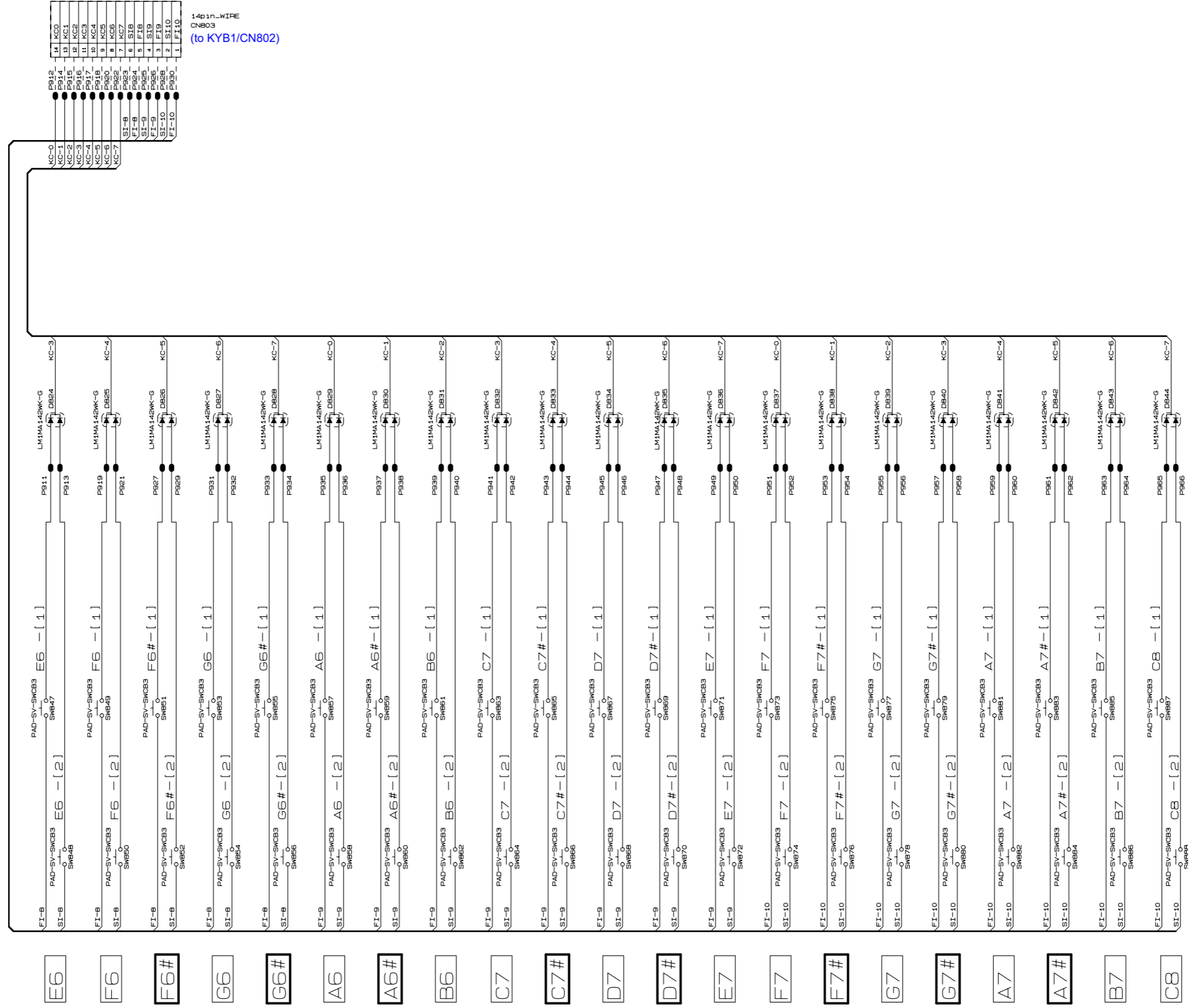


PWB-MACP-KYB1



CHIP JUMPER (0 ohm)
3216type

PWB-MACP-KYB2



E6

F6

F6#

G6

G6#

A6

A6#

B6

C7

C7#

D7

D7#

E7

F7

F7#

G7

G7#

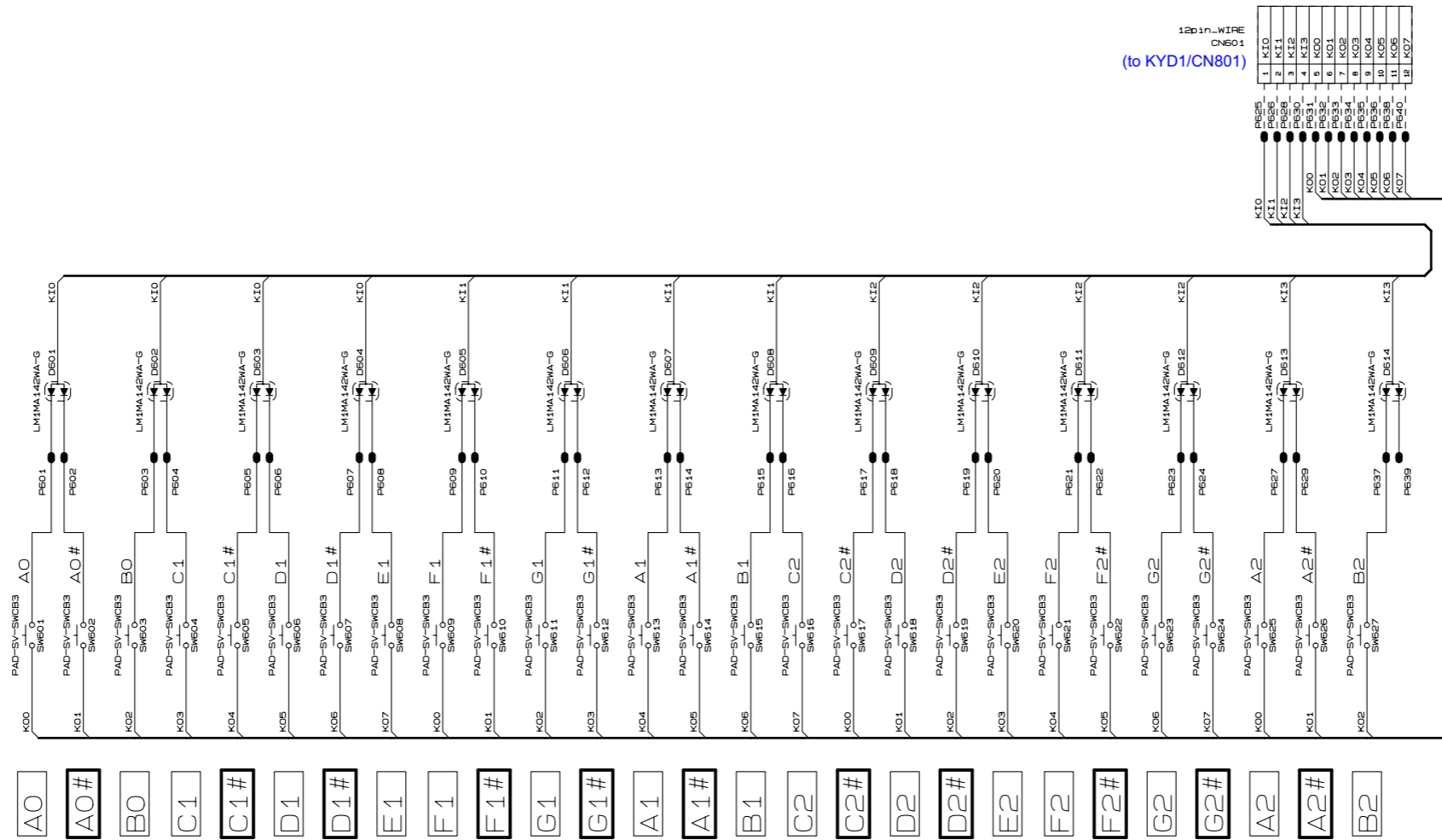
A7

A7#

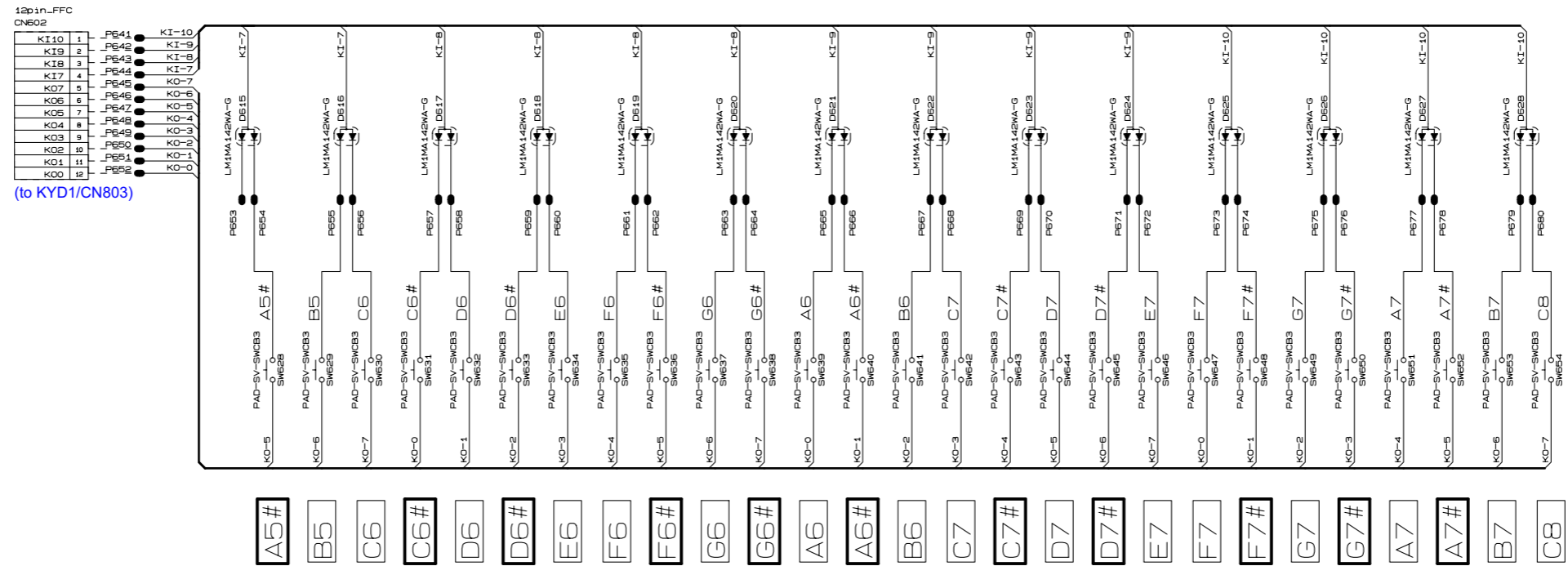
B7

C8

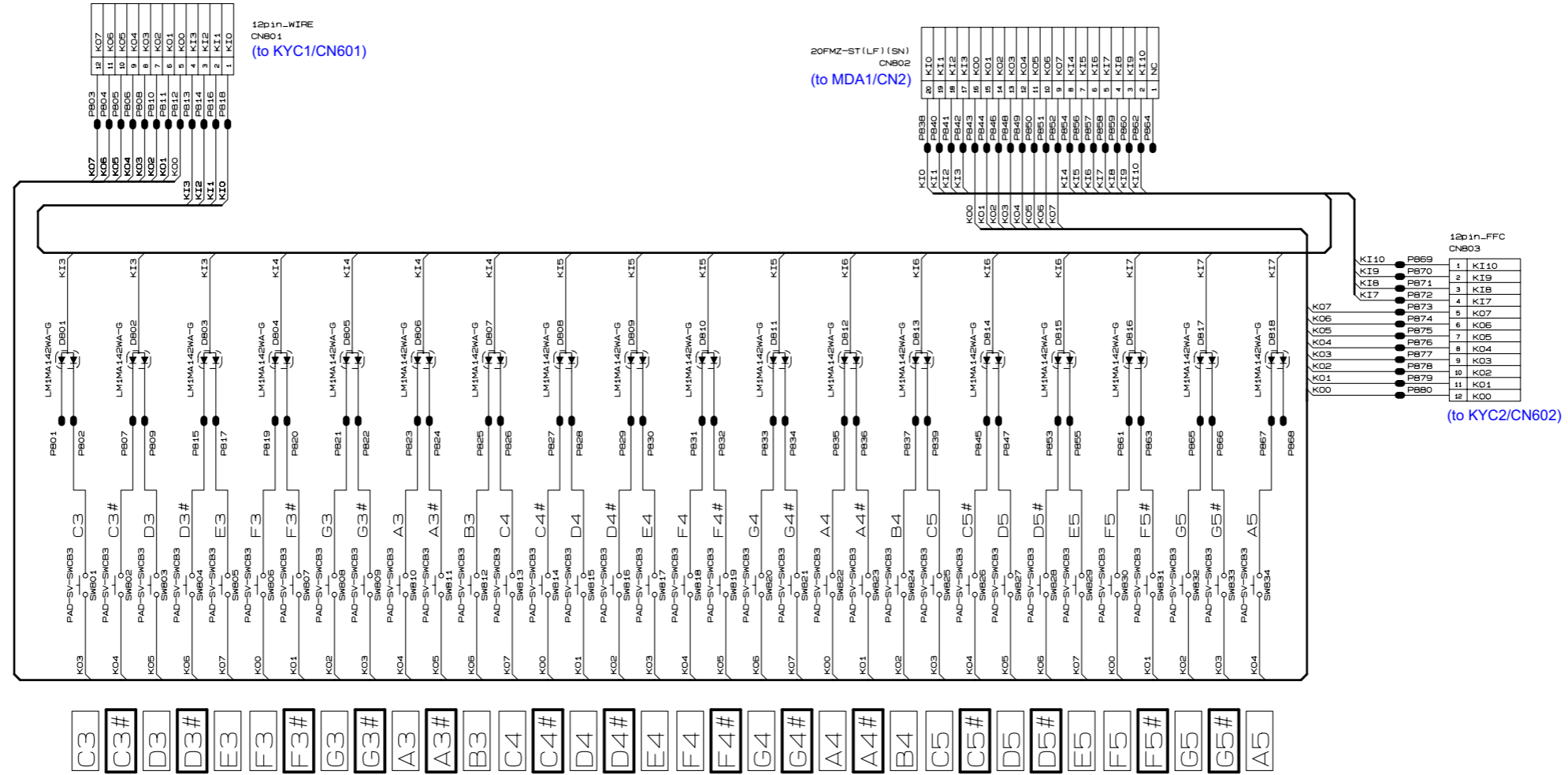
PWB-MACP-KYC1



PWB-MACP-KYC2



PWB-MACP-KYD1



CHIP JUMPER (0 ohm)
3216type

R801
 R802
 R803

Ver. 1 : Oct. 2009

- Correction of the CONTENTS
- Correction of the DISASSEMBLY (P38, P40)
- Correction of the DIAGNOSTIC PROGRAM (P50)
- Correction of the PARTS LIST (P56, P57)

Ver. 2 : Nov. 2009

- Correction of the DISASSEMBLY (P33)

Ver. 3 : Jan. 2010

- Correction of the PARTS LIST (P56)

Ver. 4 : Sep. 2011

- Addition of the new model (PX-330WE)
- Correction of the DISASSEMBLY (P31 to P34, P39 and P40)
- Correction of the DIAGNOSTIC PROGRAM (P42 and P50)
- Correction of the EXPLODED VIEW (P51 and P52)
- Correction of the PARTS LIST (P53 to P60)

Ver. 5 : Sep. 2011

- Correction of the PARTS LIST (P60)

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