

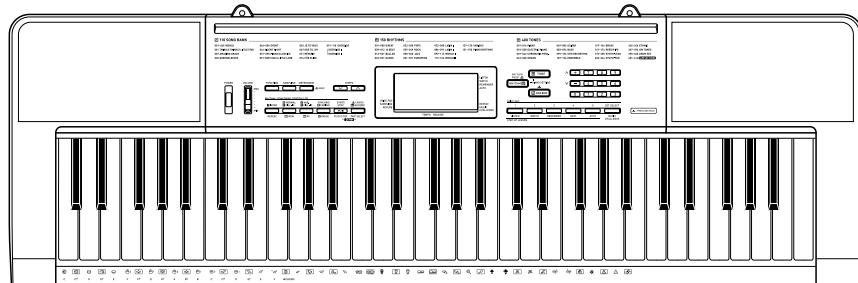
**CASIO**®

**SERVICE MANUAL  
& PARTS LIST**

(without price)

**CTK-2200**

**JUL. 2011**



CTK-2200

**ELECTRONIC KEYBOARD**

**Ver. 2 : Feb. 2012**

## CONTENTS

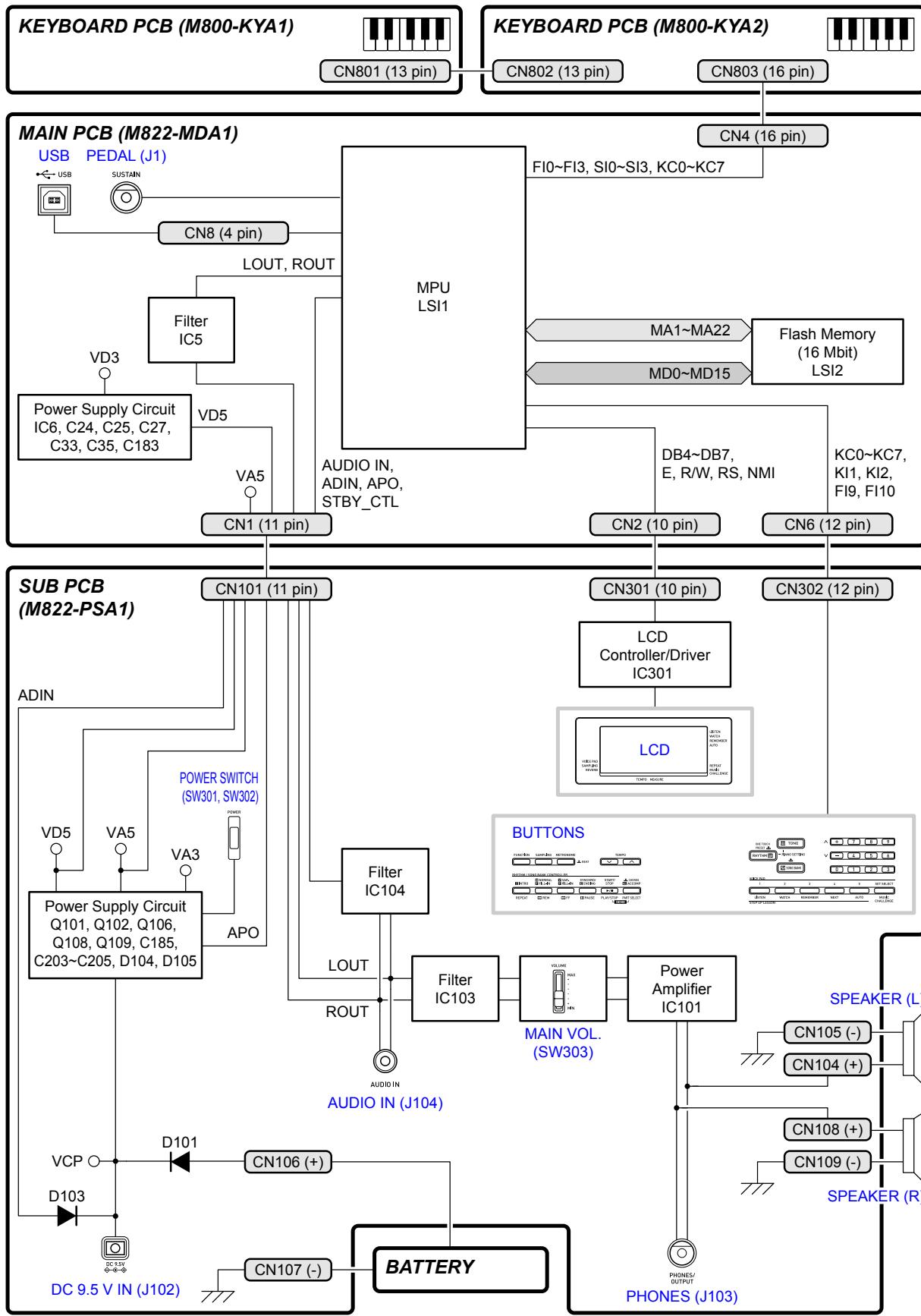
|                                |    |
|--------------------------------|----|
| SPECIFICATIONS.....            | 1  |
| BLOCK AND WIRING DIAGRAM ..... | 3  |
| PCB INFORMATION.....           | 4  |
| CIRCUIT DESCRIPTION .....      | 5  |
| PRINTED CIRCUIT BOARDS.....    | 6  |
| DISASSEMBLY.....               | 9  |
| DIAGNOSTIC PROGRAM .....       | 19 |
| EXPLODED VIEW.....             | 26 |
| PARTS LIST.....                | 27 |
| SCHEMATIC DIAGRAMS.....        | 30 |

## SPECIFICATIONS

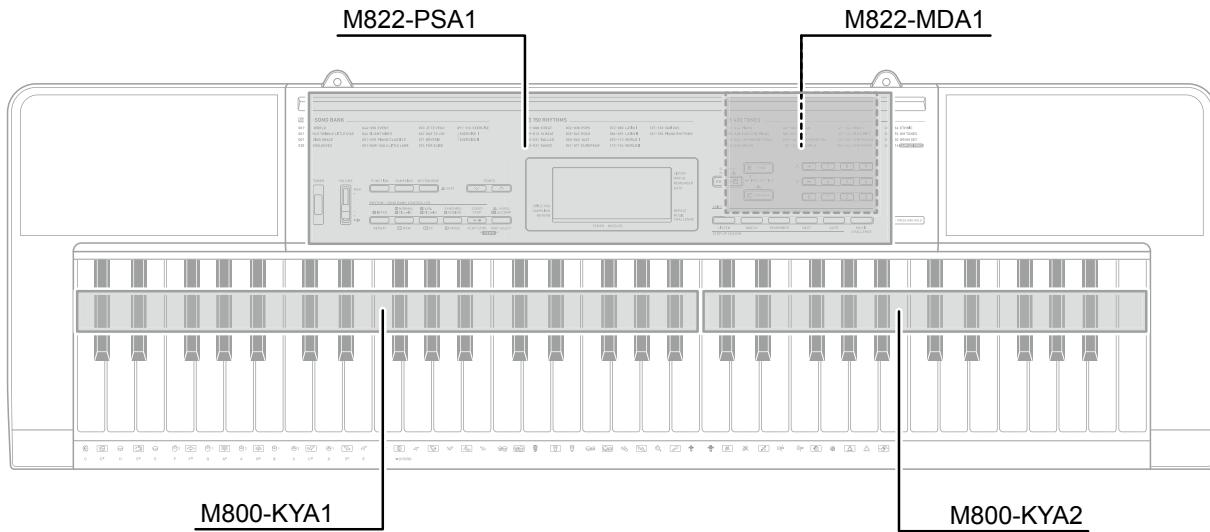
|                                     |   |
|-------------------------------------|---|
| <b>Keyboard</b>                     | 61 standard size keys   |
| <b>Maximum Polyphony</b>            | 48 notes (24 for certain tones)   |
| <b>Tones</b>                        |   |
| <b>Built-in Tones</b>               | 400   |
| <b>Sampling Tones</b>               | 1 (Full Sampling) or 3 (Short Sampling)<br>Sampling Time: 1 second (Full Sampling) or<br>approximately 0.3 seconds each (Short Sampling)<br>Effects: 10 types (for Full Sampling samples) |
| <b>Reverb</b>                       | 1 to 10, Off  |
| <b>Voice Pad</b>                    | 5 pads × 4 sets<br>(3 sets for sampled sounds, 1 set for percussion only)   |
| <b>Metronome</b>                    |   |
| <b>Beats per Measure</b>            | 0, 2 to 6   |
| <b>Tempo Range</b>                  | 30 to 255   |
| <b>Song Bank</b>                    |   |
| <b>Tunes</b>                        | 110   |
| <b>Step Up Lesson</b>               |   |
| <b>Lessons</b>                      | 4 (Listen, Watch, Remember, Auto)   |
| <b>Lesson Part</b>                  | L, R, LR  |
| <b>Functions</b>                    | Repeat, Voice Fingering Guide, Note Guide, Performance Evaluation   |
| <b>Music Challenge</b>              | 20 notes  |
| <b>Auto Accompaniment</b>           |   |
| <b>Rhythm Patterns</b>              | 150   |
| <b>One Touch Presets</b>            | 150   |
| <b>Other Functions</b>              |   |
| <b>Transpose</b>                    | ±1 octaves (-12 to +12 semitones)   |
| <b>Tuning</b>                       | A4 = 415.5 to 465.9 Hz (Initial Default: 440.0 Hz)  |
| <b>MIDI</b>                         | 16 multi-timbre received, GM Level 1 standard   |
| <b>Musical Information Function</b> | Tone, Rhythm, Song Bank numbers and names, staff notation, fingering, pedal operation, tempo, measure and beat number, chord name, etc.   |
| <b>Inputs/Outputs</b>               |   |
| <b>USB port</b>                     | TYPE B  |
| <b>Sustain jack</b>                 | Standard jack (sustain, sostenuto, soft, rhythm)  |
| <b>Phones/Output jack</b>           | Stereo standard jack<br>Output Impedance: 200 Ω, Output Voltage: 4.5 V (RMS) MAX  |
| <b>Audio In jack</b>                | Stereo mini jack<br>Input Impedance: 9 kΩ, Input Sensitivity: 200 mV  |
| <b>Power Jack</b>                   | 9.5 V DC  |

|                          |  |
|--------------------------|--|
| <b>Power Supply</b>      | 2-way  |
| <b>Batteries</b>         | 6 AA-size zinc-carbon batteries or alkaline batteries  |
| <b>Battery Life</b>      | Approximately 3 hours continuous operation on alkaline batteries   |
| <b>AC Adaptor</b>        | AD-E95100L   |
| <b>Auto Power Off</b>    | Approximately 6 minutes (during battery operation) or 30 minutes (during AC adaptor operation) without any operation |
| <br>                     |  |
| <b>Speakers</b>          | 10 cm × 2  |
| <b>Output</b>            | 2 W + 2 W  |
| <br>                     |  |
| <b>Power Consumption</b> | 9.5 V = 7.7 W  |
| <br>                     |  |
| <b>Dimensions</b>        | 94.6 × 30.7 × 9.2 cm (37 1/4 × 12 1/16 × 3 5/8 inch)   |
| <br>                     |  |
| <b>Weight</b>            | Approximately 3.4 kg (7.5 lbs) (without batteries)   |

## BLOCK AND WIRING DIAGRAM



## PCB INFORMATION



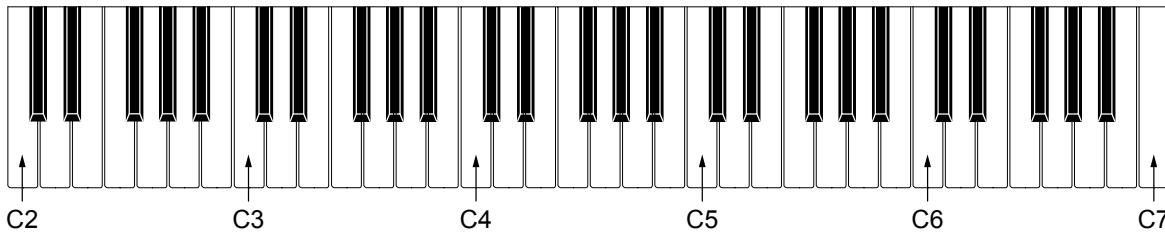
| Classification | Parts Name           | PCB Name               | Components   |
|----------------|----------------------|------------------------|--|
| Main PCB       | PCB UNIT/MAIN        | M822-MDA1              | MPU, Flash Memory (16 Mbit), Power Supply Circuit, Filter, SUSTAIN Jack, USB Port  |
| Sub PCB        | PCB UNIT/POWER & AMP | M822-PSA1              | Power Supply Circuit, Power Amplifier, Filters, LCD Controller/Driver, LCD, Buttons, Power Switch, Main Volume, DC 9.5 V Terminal, AUDIO IN Jack, PHONES/OUTPUT Jack |
| Keyboard PCB   | PCB UNIT/KYA         | M800-KYA1<br>M800-KYA2 | Keyboard   |

## CIRCUIT DESCRIPTION

### ■ KEY MATRIX

|     | KC0 | KC1 | KC2 | KC3 | KC4 | KC5 | KC6 | KC7 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| KI0 | C2  | C2# | D2  | D2# | E2  | F2  | F2# | G2  |
| KI1 | G2# | A2  | A2# | B2  | C3  | C3# | D3  | D3# |
| KI2 | E3  | F3  | F3# | G3  | G3# | A3  | A3# | B3  |
| KI3 | C4  | C4# | D4  | D4# | E4  | F4  | F4# | G4  |
| KI4 | G4# | A4  | A4# | B4  | C5  | C5# | D5  | D5# |
| KI5 | E5  | F5  | F5# | G5  | G5# | A5  | A5# | B5  |
| KI6 | C6  | C6# | D6  | D6# | E6  | F6  | F6# | G6  |
| KI7 | G6# | A6  | A6# | B6  | C7  |     |     |     |

### ■ NOMENCLATURE OF KEYS

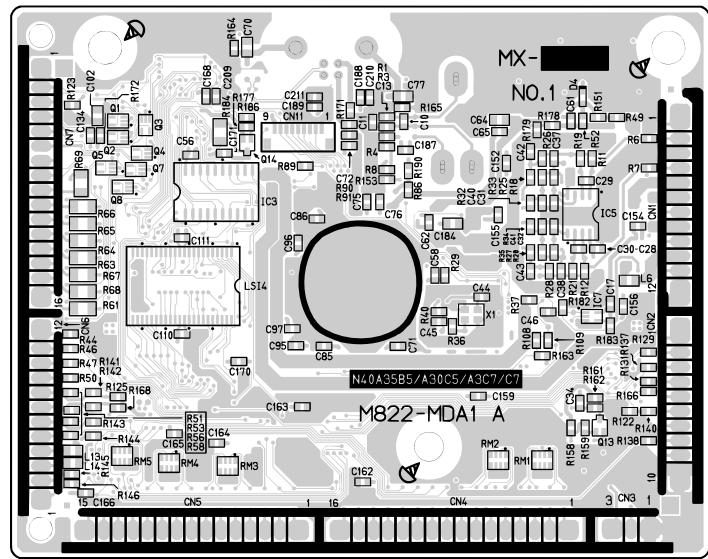
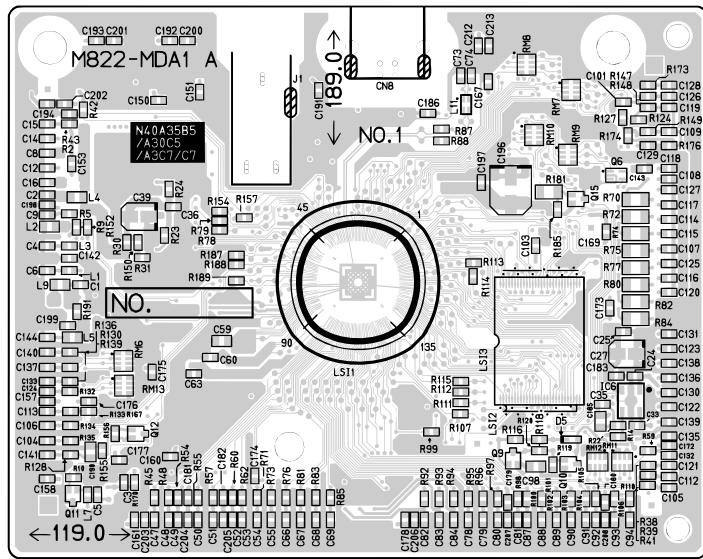


### ■ BUTTON MATRIX

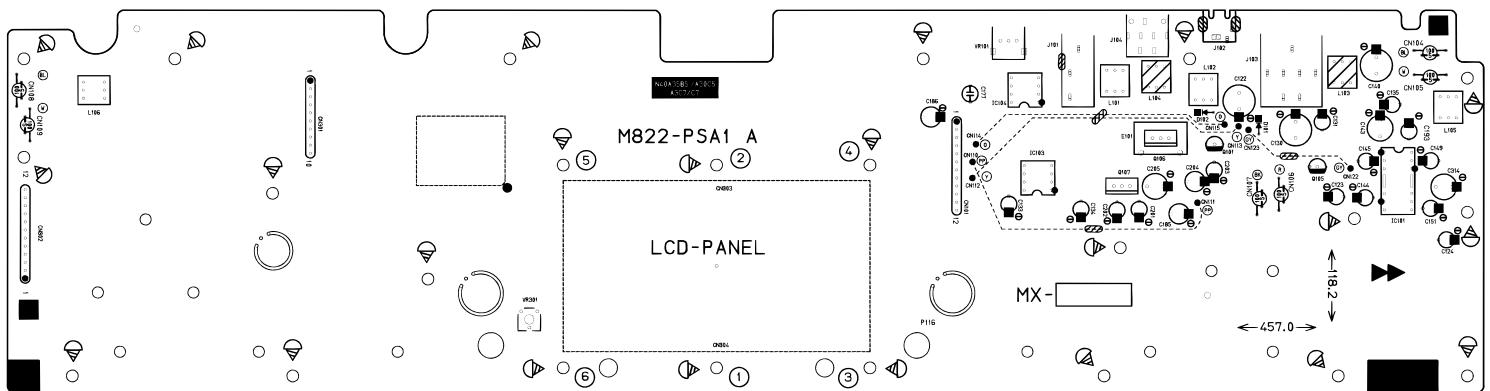
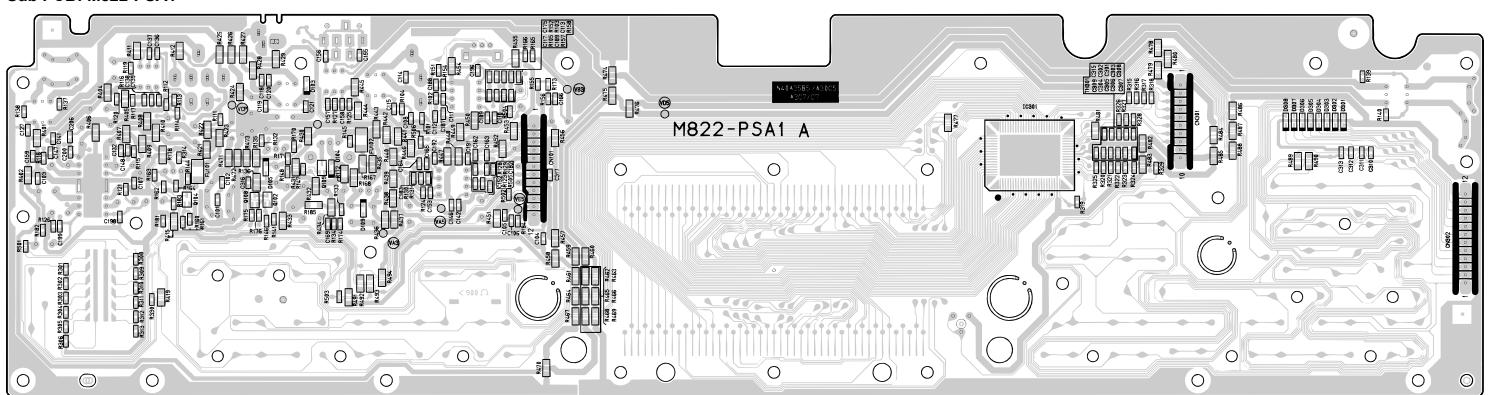
|      | KC0                            | KC1   | KC2                     | KC3                               | KC4                      | KC5                              | KC6                               | KC7                     |
|------|--------------------------------|-------|-------------------------|-----------------------------------|--------------------------|----------------------------------|-----------------------------------|-------------------------|
| KI1  | SONG BANK                      | TONE  | TEMPO                   | SET SELECT,<br>MUSIC<br>CHALLENGE | VOICE<br>PAD4,<br>NEXT   | START/<br>STOP,<br>PLAY/<br>STOP | METRONOME,<br>BEAT                | REPEAT,<br>INTRO        |
| KI2  | RHYTHM,<br>ONE TOUCH<br>PRESET | TEMPO | VOICE<br>PAD2,<br>WATCH | VOICE<br>PAD3,<br>REMEMBER        | VOICE<br>PAD1,<br>LISTEN | NORMAL/<br>FILL-IN,<br>REW       | FUNCTION                          | VAR./<br>FILL-IN,<br>FF |
| FI9  | 0                              | 1     | 2                       | 3                                 | 4                        | 5                                | 6                                 | -                       |
| FI10 | 7                              | 8     | 9                       | +                                 | VOICE<br>PAD5,<br>AUTO   | SYNCHRO/<br>ENDING,<br>PAUSE     | ACCOMP,<br>CHORDS,<br>PART SELECT | SAMPLING                |

## PRINTED CIRCUIT BOARDS

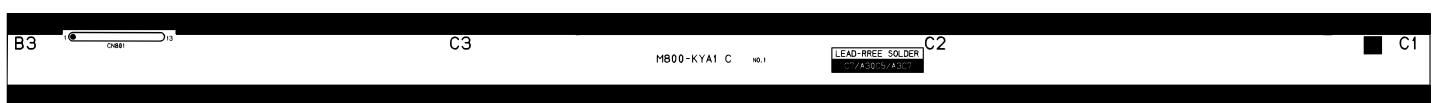
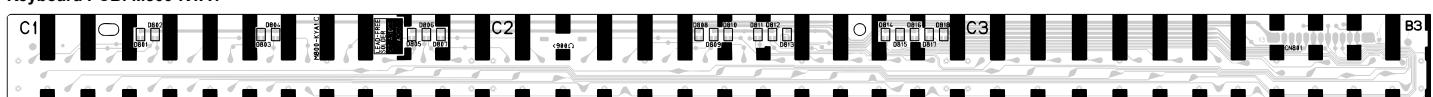
Main PCB: M822-MDA1



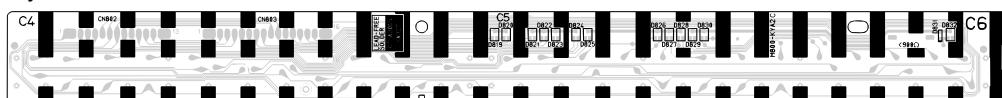
Sub PCB: M822-PSA1



**Keyboard PCB: M800-KYA1**



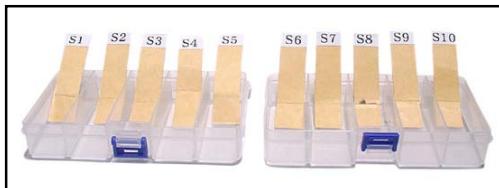
**Keyboard PCB: M800-KYA2**



## DISASSEMBLY

### ■ CAUTION

- The photos show a prototype. The appearance of the instrument, such as color, may differ from the actual model.
- To avoid damages to the instrument and the floor, lay the instrument on a mattress or blanket before starting disassembling.
- There are several kinds of screws. Be sure to use the correct type of screws when reassembling. It is advisable to sort the screws as shown below after removing them.



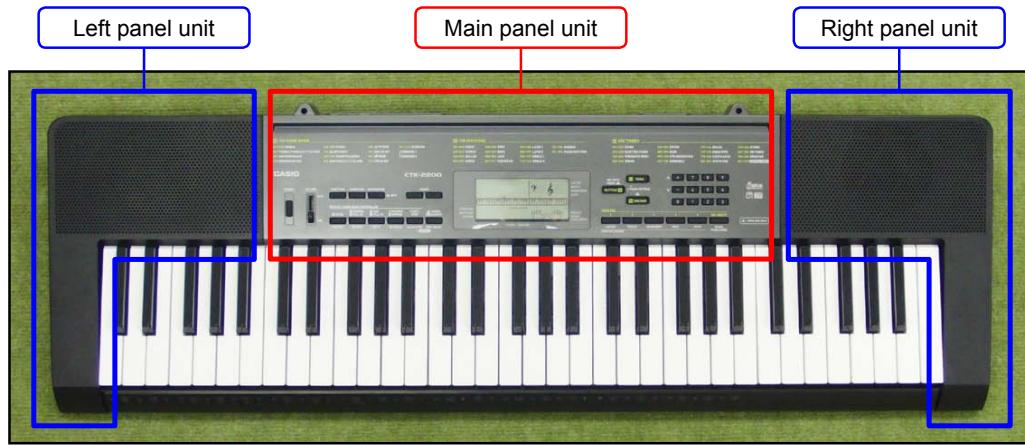
- If a screw cap is attached to a screw, be sure to reattach the screw cap when reassembling.

### ■ BEFORE STARTING REPAIR OR SERVICING

- Remove the AC adaptor, AC cord or batteries.
- Remove accessories such as the music stand.

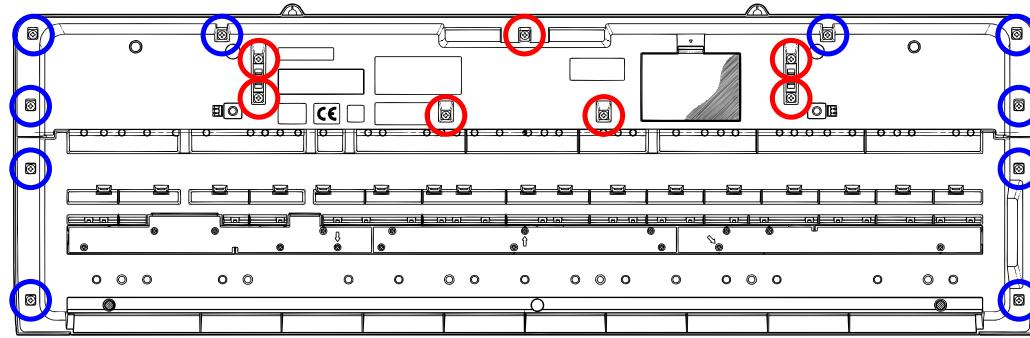
## ■ DISASSEMBLY

### A. REMOVE THE PANEL UNITS



- A-1. Undo 17 or seven screws on the bottom surface of the main unit.

**NOTE:** To remove only the main panel unit, undo seven screws indicated with red circles in the illustration below.

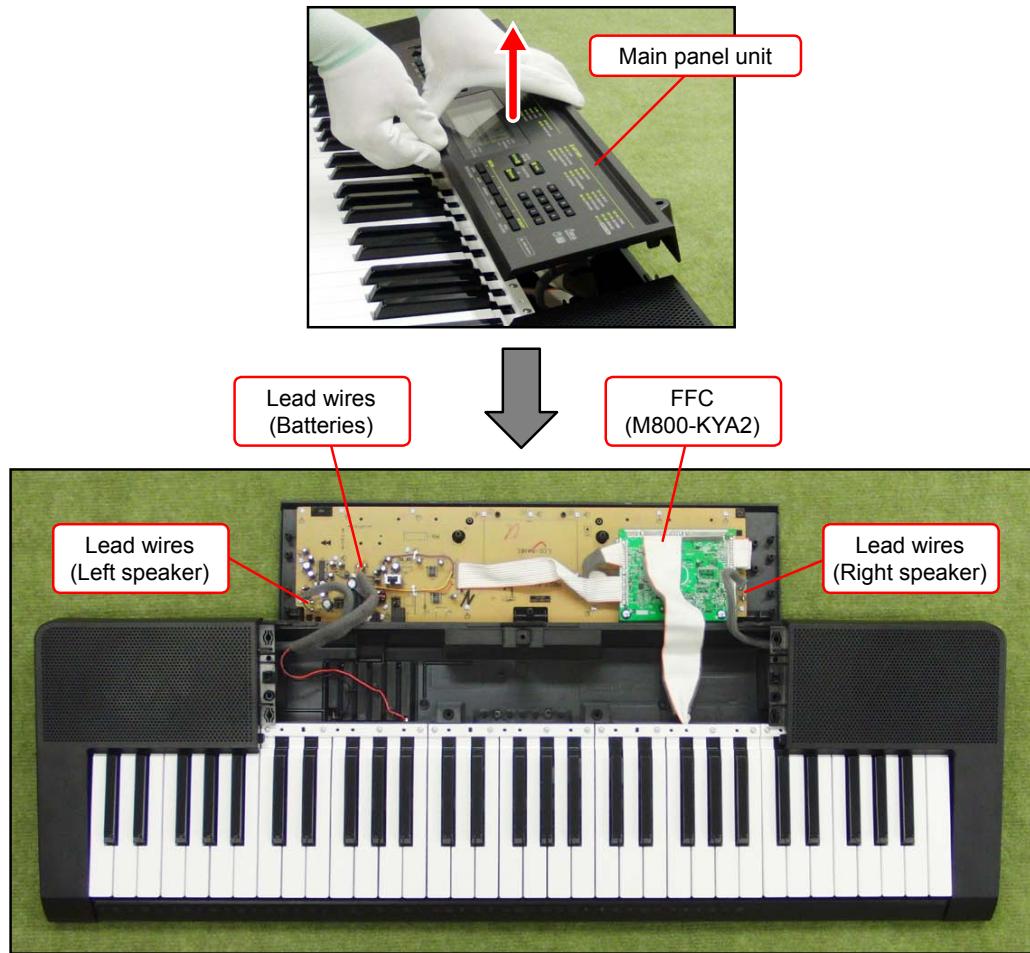


A-2. Place the main unit with the keys facing up.

A-3. Lift the main panel unit and turn it over.

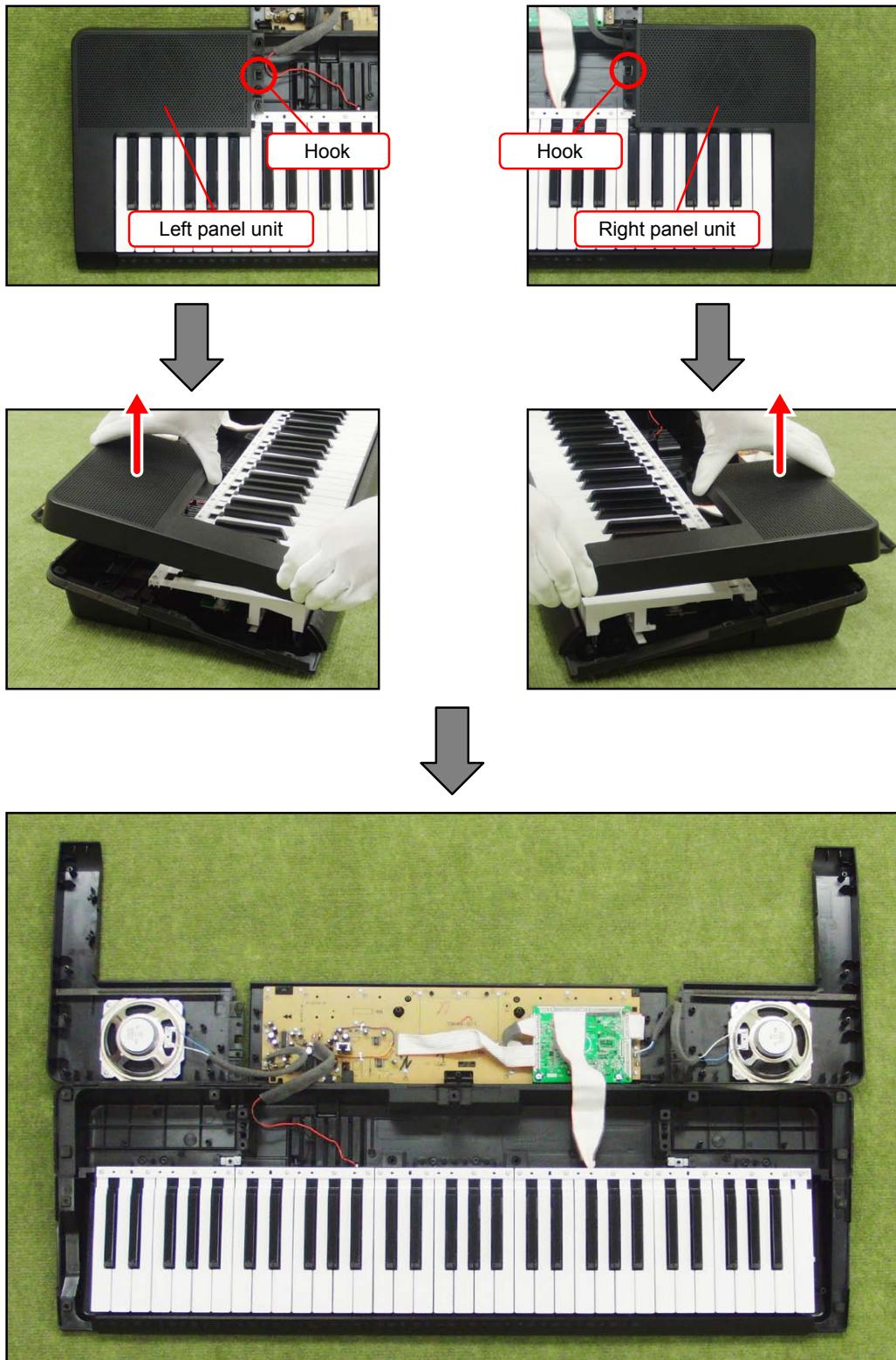
**NOTE:** The main panel unit is connected to the lower case unit with the lead wires and FFCs.

Use caution when turn over the main panel unit.



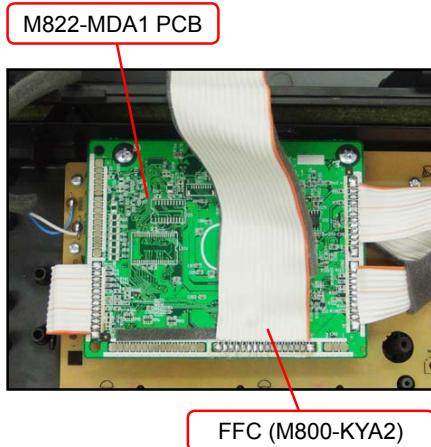
A-4. Disengage one hook and then remove the right panel unit.

A-5. Disengage one hook and then remove the left panel unit.



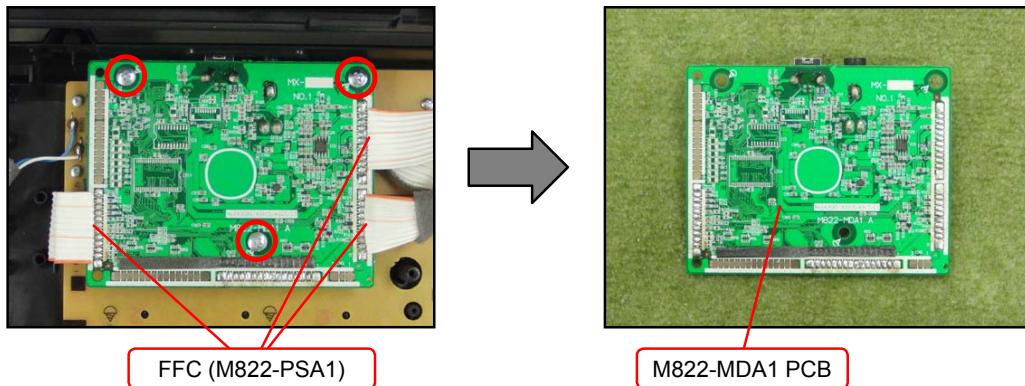
## B. REMOVE THE M822-MDA1 PCB (MAIN PCB)

- B-1. Unsolder one FFC.



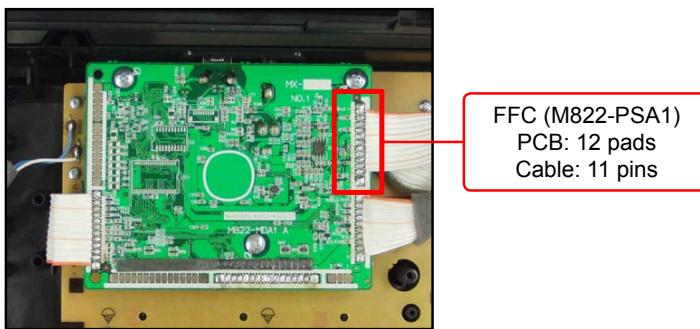
- B-2. Unsolder three FFCs.

- B-3. Undo three screws and then remove the M822-MDA1 PCB.



### <Notes On Assembly>

- The number of pins on the PCB pad differs from that on the cable. Solder in the way that No.1 pin on the cable (orange) is connected to No.1 pad on the PCB.

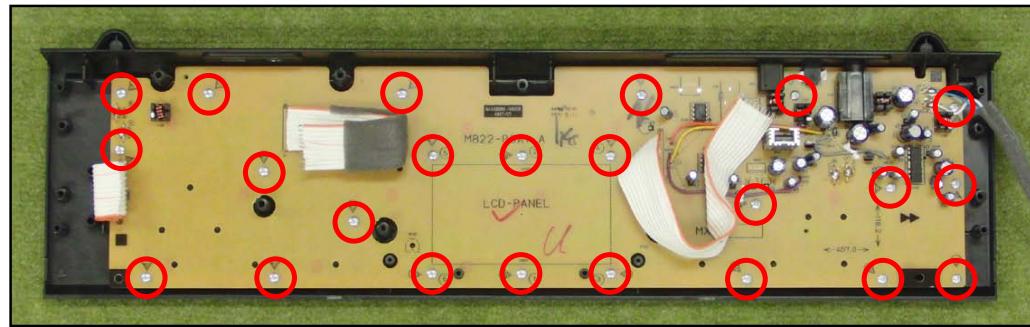


### C. REMOVE THE M822-PSA1 PCB (SUB PCB)

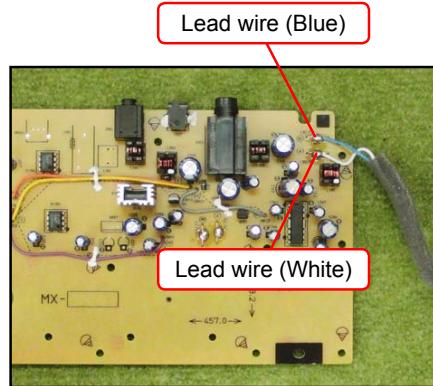
C-1. Unsolder four lead wires.



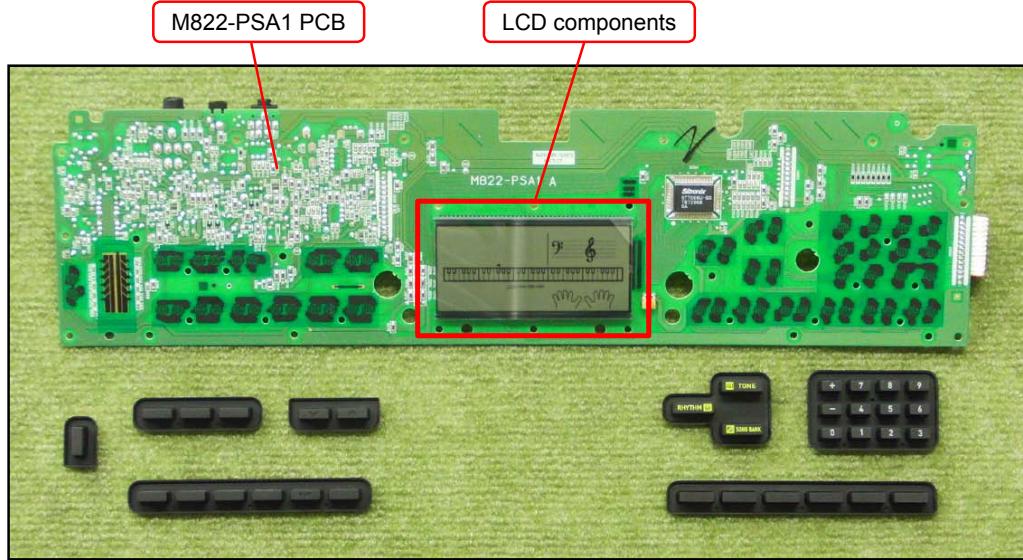
C-2. Undo 23 screws.



C-3. Remove the M822-PSA1 PCB from main panel and then unsolder two lead wires.

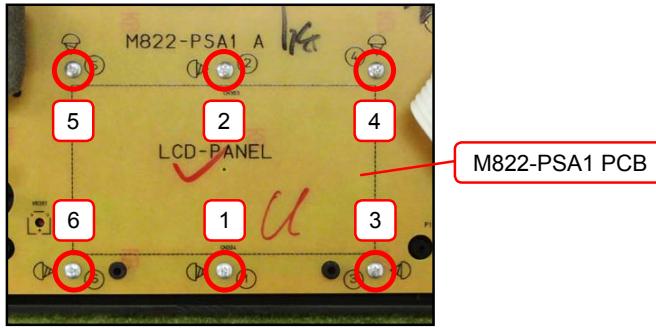


C-4. Remove the M822-PSA1 PCB, LCD components and rubber keys.



#### <Notes On Assembly>

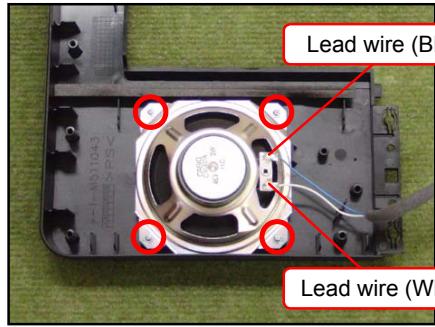
- To install the M822-PSA1 PCB, tighten the screws for the LCD part in the order indicated with the numbers below. If not tighten correctly, it may cause the LCD display errors.



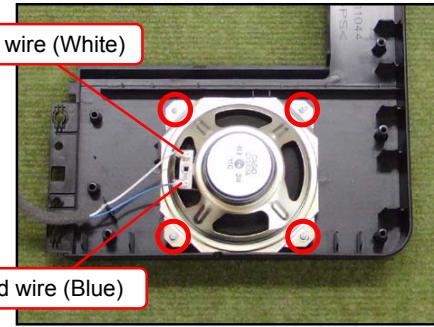
## D. REMOVE THE SPEAKER

- D-1. Unsolder two lead wires.
- D-2. Undo four screws and then remove the SPEAKER.

#### <Left speaker>

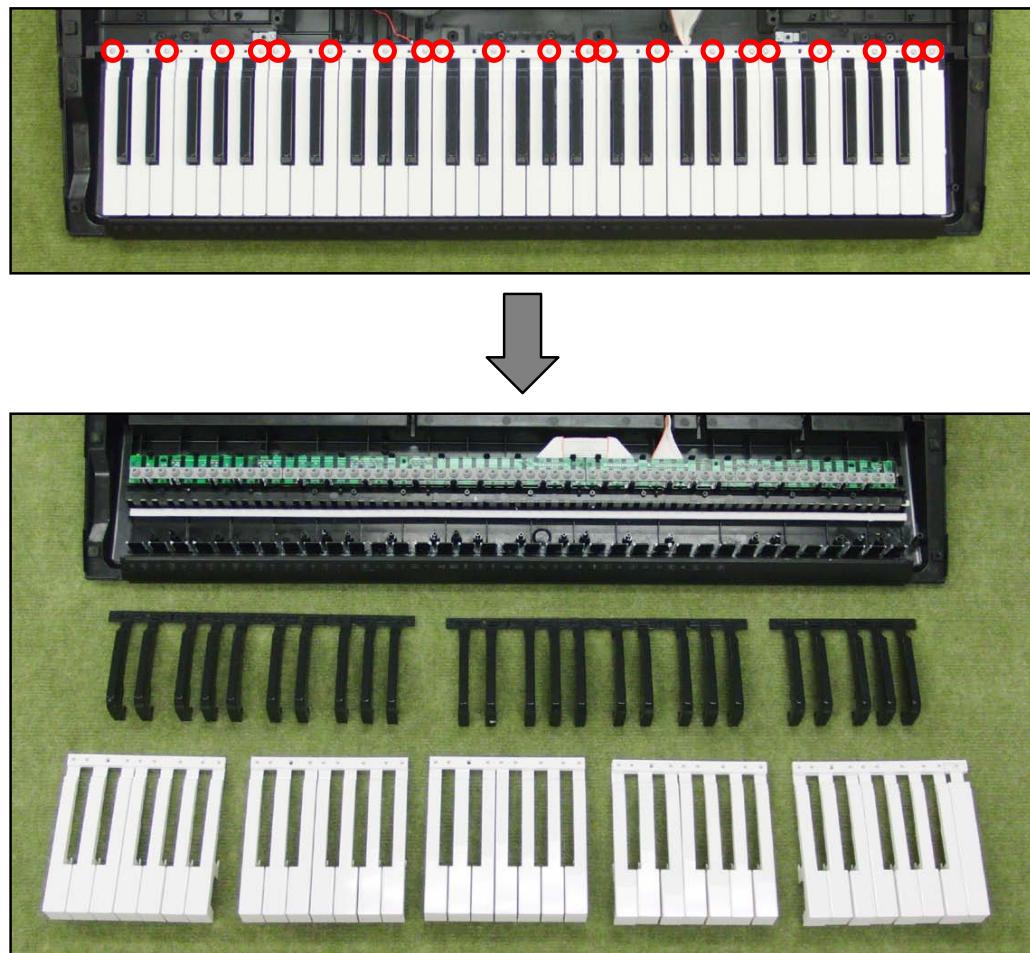


#### <Right speaker>

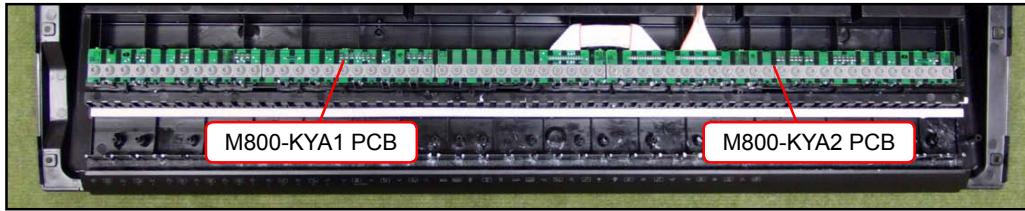


## E. REMOVE THE KEYBOARD

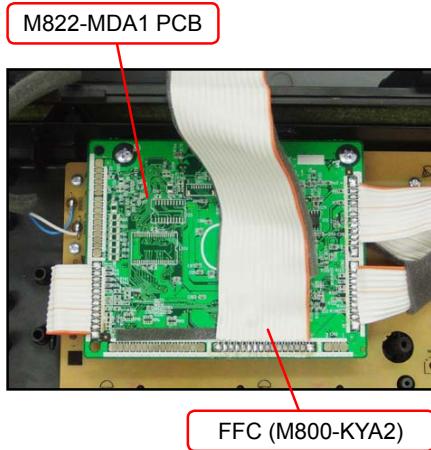
E-1. Undo 21 screws and then remove the keys.



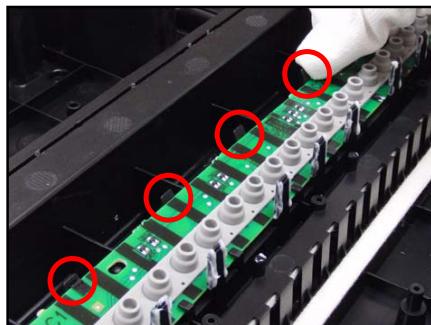
## F. REMOVE THE M800-KYA1/KYA2 PCBs (KEYBOARD PCB)



F-1. Unsolder one FFC connected to the M822-MDA1 PCB.

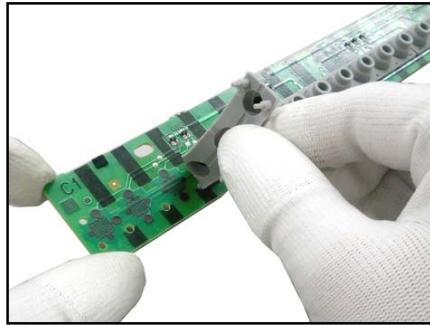
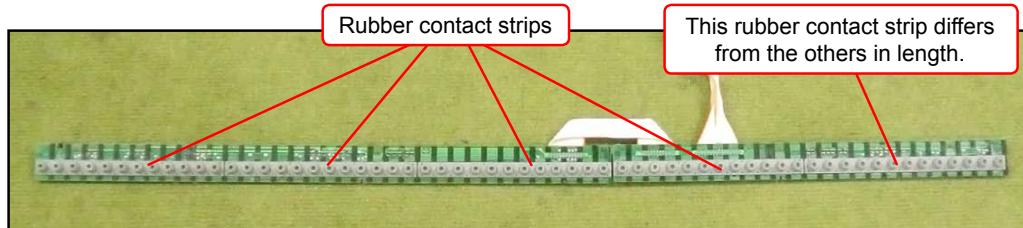


F-2. Disengage the hooks and then remove the M800-KYA1/KYA2 PCBs.



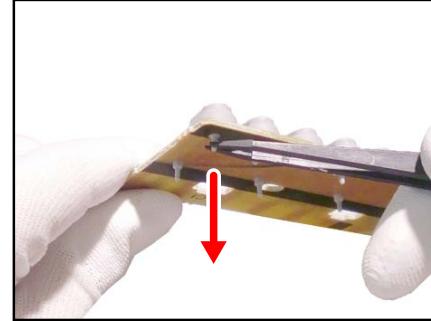
F-3. Remove five rubber contact strips.

**NOTE:** One rubber contact strip differs in length.



#### <How To Install Rubber Contact Strips>

- Lightly insert the tip of a rubber contact strip into the PCB. Pull the tip from the back of the PCB and install it using a tool such as tweezers. Do not forcibly pull it.



## DIAGNOSTIC PROGRAM

### ■ PREPARATION

- (1) Connect the AC adaptor.

**NOTE:** The AC adaptor (AD-E95100L) for the CTK-2200\_DI and CTK-2200\_UK is sold separately and does not come with the product. If you do not have the AC adaptor, use six AA-size dry batteries with enough capacity.

**NOTE:** "AC ADAPTOR CHECK" cannot be performed unless the AC adaptor is connected.

- (2) Turn the main volume to the maximum.
- (3) Have a PC and a USB cable ready.

**NOTE:** "USB CHECK" cannot be performed without a PC and a USB cable.

Operating System: Windows® XP (SP2 or later) \*1

Windows Vista® \*2

Windows 7® \*3

Mac OS® X (10.3.9, 10.4.11, 10.5.8 or later, 10.6.6 or later)

\*1: Windows XP Home Edition/Windows XP Professional (32 bit)

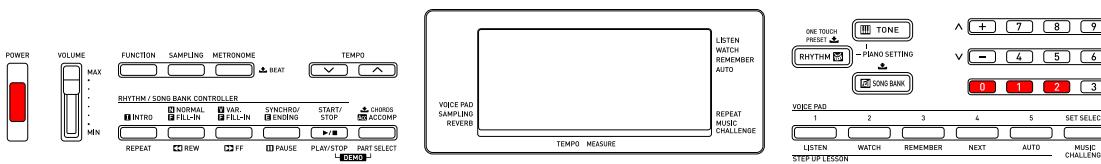
\*2: Windows Vista (32 bit)

\*3: Windows 7 (32 bit, 64 bit)

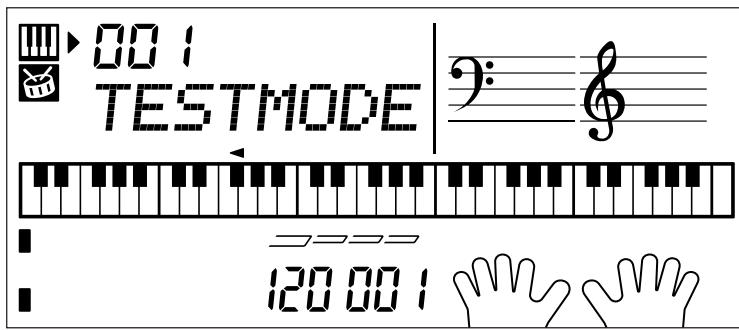
### ■ HOW TO START THE DIAGNOSTIC PROGRAM

- (1) Hold down the "0", "1" and "2" buttons at the same time, to turn the power ON.

**NOTE:** Be sure to turn OFF the power when the test is finished.



- (2) Release the "0", "1" and "2" buttons.
- (3) After the diagnostic program is launched, the test mode screen appears.

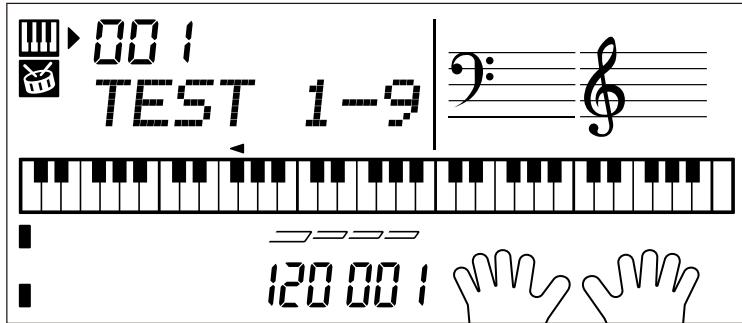


## ■ TEST ITEMS

Pressing a test button after the diagnostic program was launched or while on the main screen enables the corresponding test item to be tested.

| Test Items                   | Buttons | Note          |
|------------------------------|---------|---------------|
| A. BUTTON CHECK              | 1       |               |
| B. AC ADAPTOR CHECK          | 3       | AC adaptor    |
| C. ROM VERSION & MODEL CHECK | 9       |               |
| D. LCD CHECK                 | 2       |               |
| E. USB CHECK                 |         | PC, USB cable |

<Test Mode Main Screen>



## ■ TEST PROCEDURES

### A. BUTTON CHECK

- A-1. Press the “1” button to select the “BUTTON CHECK”.

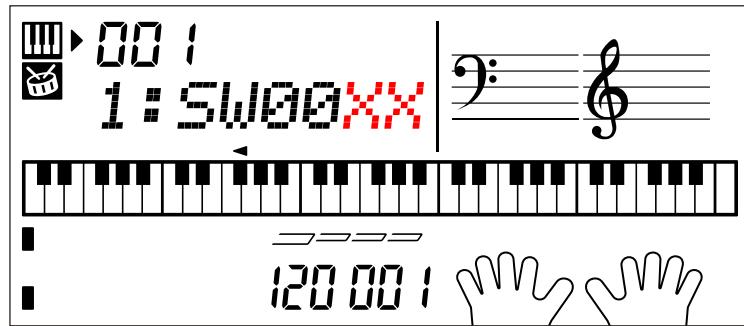


- A-2. Press the button in the order indicated in the illustration.

**NOTE:** You cannot cancel this check procedure mid-way.

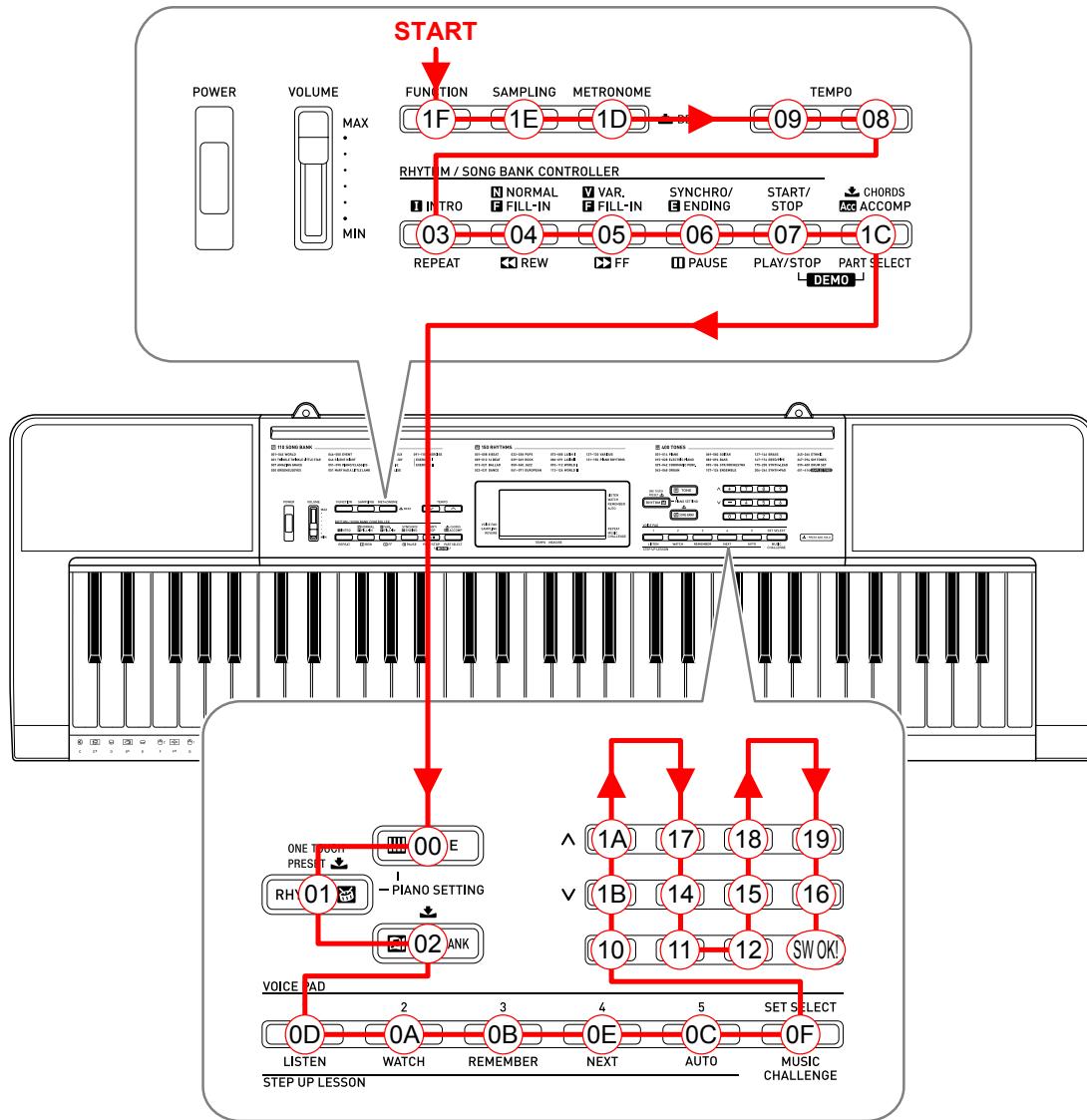
**<If the result passes>**

The confirmation chord sounds and “1:SW00XX” is displayed on the LCD with “XX” indicating the corresponding button number in the illustration.



**<If the result fails>**

If there is a button failure or the buttons are pressed in a wrong sequence, an error tone sounds and the button number which you pressed will be displayed on the LCD.



- A-3. When the “3” button is pressed at the end, a confirmation chord sounds and “SW OK!” is displayed on the LCD.
- A-4. Check to see if the LCD is as shown below.

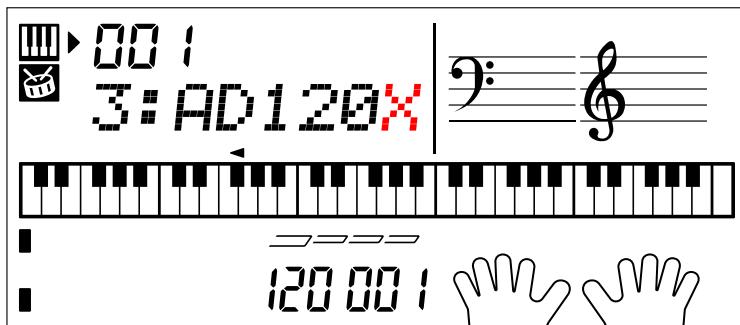


- A-5. Press the “0” button to return to the main screen.

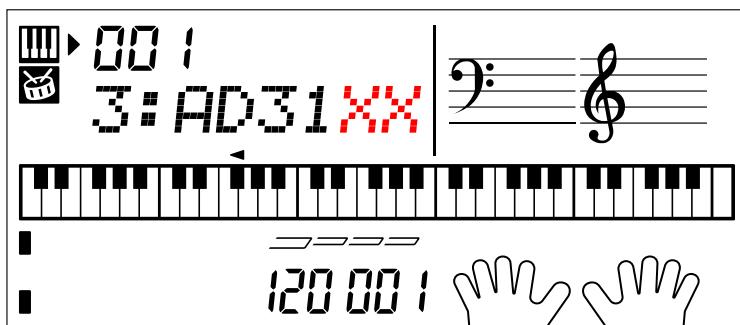
## B. AC ADAPTER CHECK

---

- B-1. Press the “3” button to select the “AC ADAPTER CHECK”.
- B-2. Make sure that a value “X” shown in the illustration is in the range of 1 to 3.



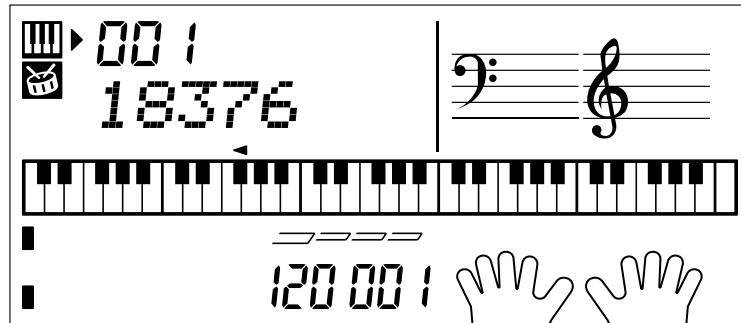
- B-3. Press the “3” button again.
- B-4. Make sure that a value “XX” shown in the illustration is in the range of 00 to FF.



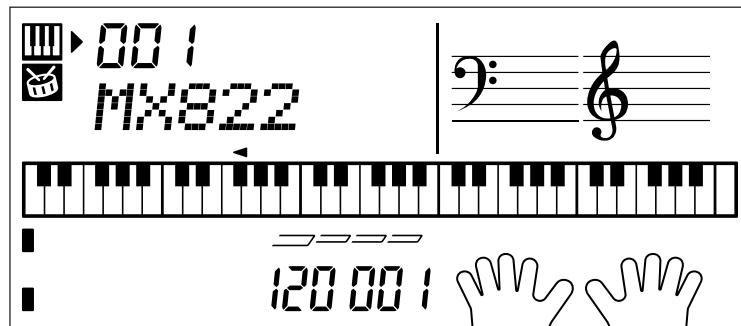
- B-5. Press the “0” button to return to the main screen.

### C. ROM VERSION & MODEL CHECK

- C-1. Press the “9” button to perform the “ROM VERSION CHECK”.  
The ROM version appears on the LCD.
- C-2. Check that the ROM version is “18376”.



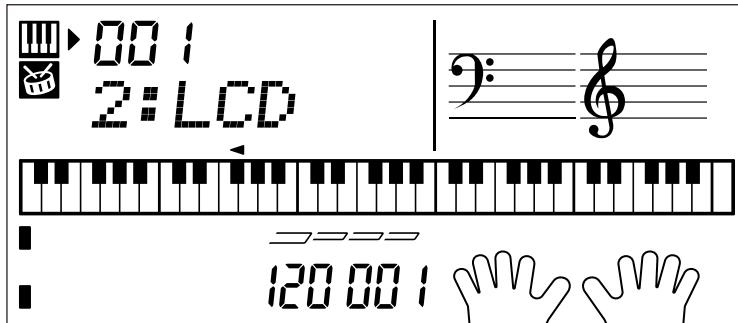
- C-3. Press the “9” button to perform the “MODEL CHECK”.  
The model name appears on the LCD.
- C-4. Check that the model name is “MX822”.



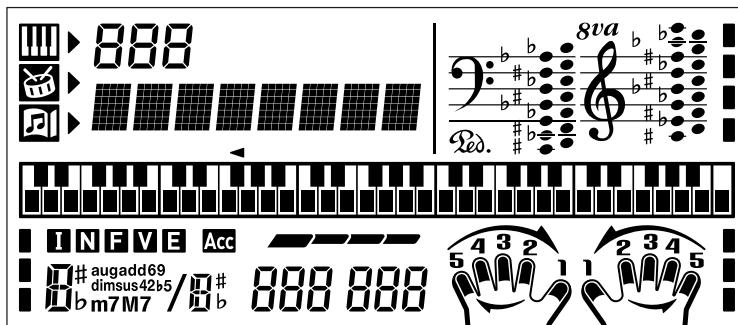
- C-5. Press the “0” button to return to the main screen.

## D. LCD CHECK

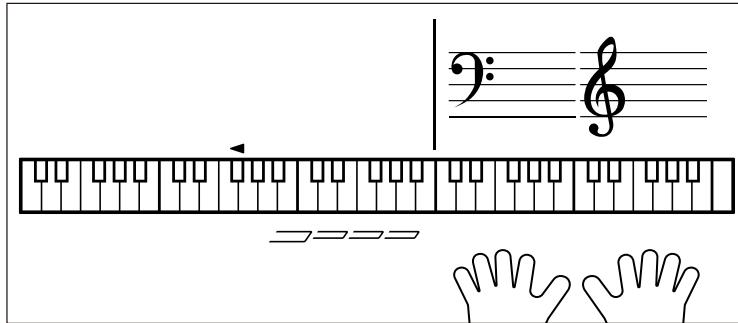
D-1. Press the “2” button to select the “LCD CHECK”.



D-2. Press the “2” button and check to see if all LCDs are lit.



D-3. Press the “2” button and check to see if all LCDs are turned off.

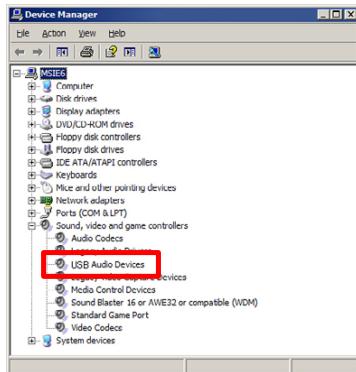


D-4. Press the “0” button to return to the main screen.

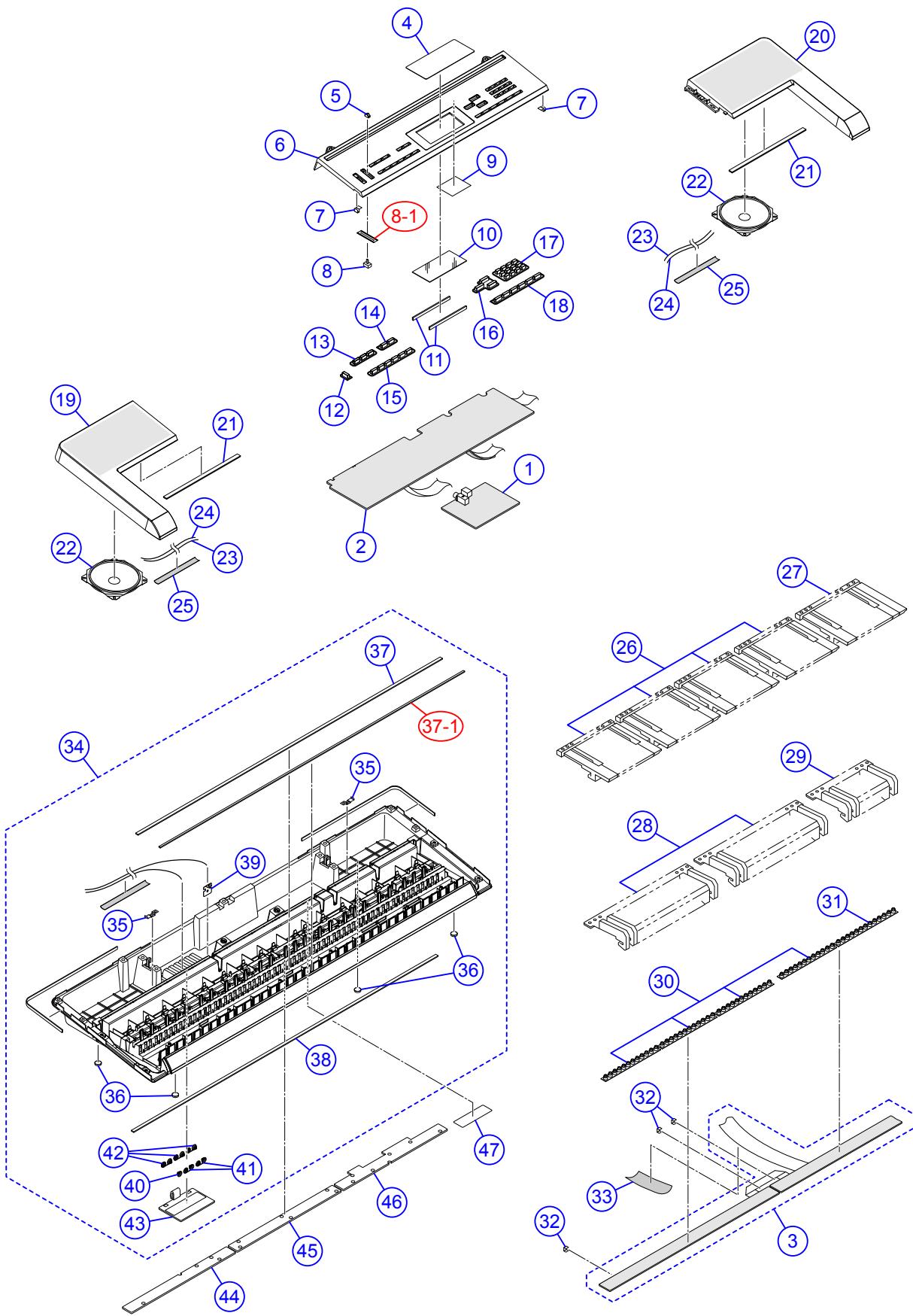
## E. USB CHECK

**NOTE:** The following procedures are for a PC with Windows XP.

- E-1. Connect the main unit to the PC with a USB cable.
- E-2. Open the windows "Device Manager", and then make sure "USB Audio Devices" is listed under "Sound, video and game controllers".
- E-3. Disconnect the USB cable.
- E-4. Verify "USB Audio Devices" is not listed under "Sound, video and game controllers".



## EXPLODED VIEW



# **PARTS LIST**

## **CTK-2200**

### **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: CTK-2200\_DI
- 2: CTK-2200\_EU
- 3: CTK-2200\_UK
- 4: CTK-2200\_US

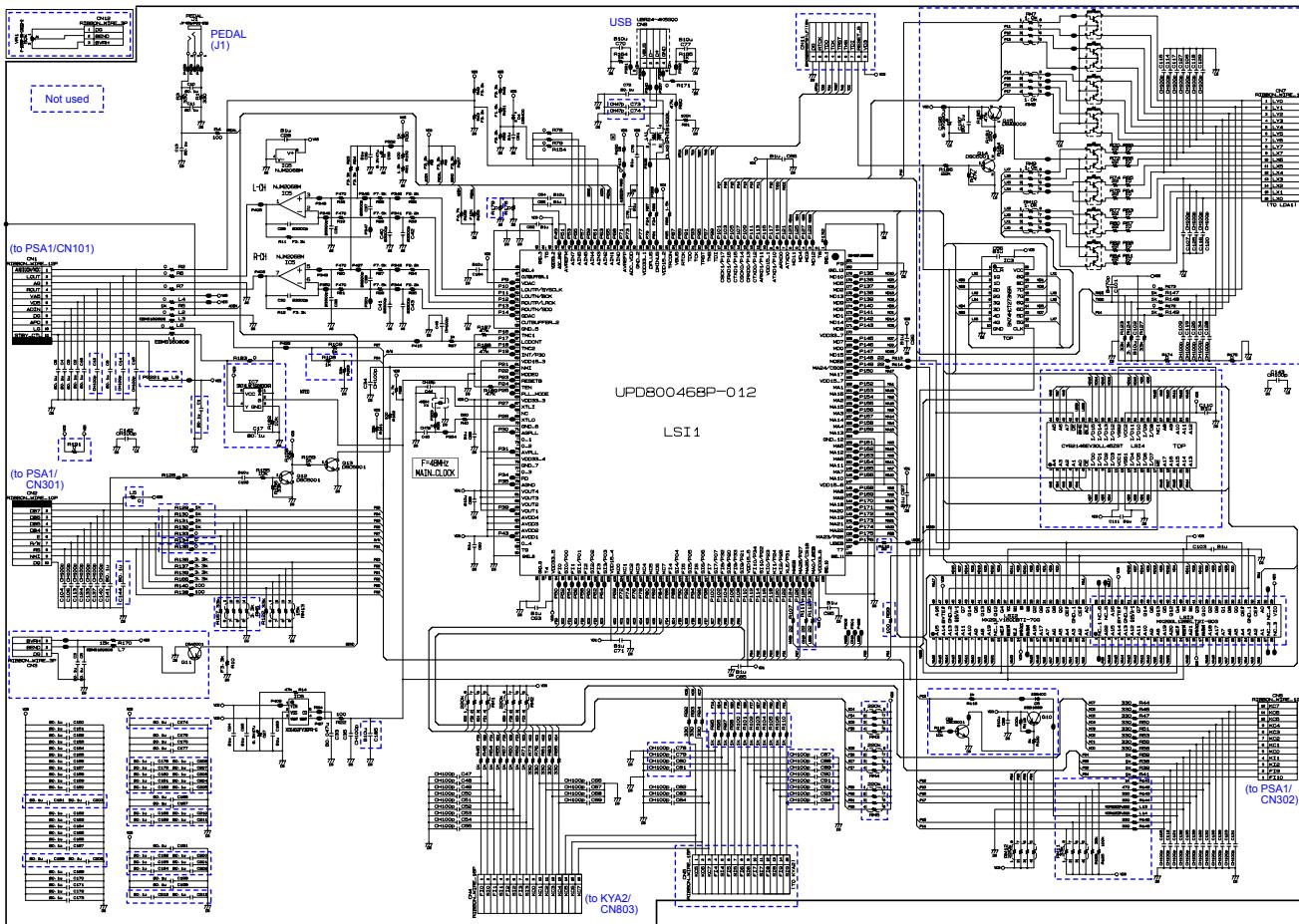
| N                   | Item                    | Code No. | Parts Name               | Specification     | Q'ty |    |    |    | Price Code | R | Remarks          |
|---------------------|-------------------------|----------|--------------------------|-------------------|------|----|----|----|------------|---|------------------|
|                     |                         |          |                          |                   | 1    | 2  | 3  | 4  |            |   |                  |
| <b>MAIN PCB</b>     |                         |          |                          |                   |      |    |    |    |            |   |                  |
| N                   | 1                       | 10401017 | PCB UNIT/MAIN            | TK-RJM511249*001  | 1    | 1  | 1  | 1  |            | A | MDA1             |
|                     | J1                      | 10206815 | JACK/PEDAL               | JY-6314*01-030    | 1    | 1  | 1  | 1  |            | B |                  |
|                     | CN8                     | 10236624 | CONNECTOR/USB            | UBR24-4K5G00      | 1    | 1  | 1  | 1  |            | C |                  |
|                     | L11                     | 10193074 | COIL                     | DLW21HN181SQ2L    | 1    | 1  | 1  | 1  |            | X |                  |
|                     | D4                      | 10009218 | DIODE                    | 1SS400TE61        | 1    | 1  | 1  | 1  |            | X |                  |
|                     | IC5                     | 10211950 | IC                       | NJM2068M-D(TE1)   | 1    | 1  | 1  | 1  |            | X |                  |
| N                   | IC6                     | 10398240 | IC                       | XC6402FV36PR-G    | 1    | 1  | 1  | 1  |            | X |                  |
| N                   | LSI2                    | 10396644 | MEMORY                   | MX29LV160DBTI-70G | 1    | 1  | 1  | 1  |            | C |                  |
| N                   | X1                      | 10375016 | RESONATOR                | 7V48080006        | 1    | 1  | 1  | 1  |            | X |                  |
| N                   | Q12,Q13                 | 10399706 | TRANSISTOR               | DSC500100L        | 2    | 2  | 2  | 2  |            | X |                  |
| <b>SUB PCB</b>      |                         |          |                          |                   |      |    |    |    |            |   |                  |
| N                   | 2                       | 10401018 | PCB UNIT/POWER & AMP     | TK-RJM511239*001  | 1    | 1  | 1  | 1  |            | B | PSA1             |
|                     | L103,L104               | 10231919 | COIL                     | RB53-856396NP     | 2    | 2  | 2  | 2  |            | X |                  |
|                     | L102,L105,<br>L106      | 10231920 | COIL                     | RB53-856397NP     | 3    | 3  | 3  | 3  |            | X |                  |
|                     | J102                    | 35015103 | JACK/DC                  | HEC3110-01-010    | 1    | 1  | 1  | 1  |            | A |                  |
|                     | J103                    | 10305218 | JACK/PHONE               | JY-6316B*01-070   | 1    | 1  | 1  | 1  |            | B |                  |
|                     | J104                    | 10305131 | JACK/AUDIO IN            | ST-3529B          | 1    | 1  | 1  | 1  |            | B |                  |
|                     | IC103,IC104             | 10206677 | IC                       | NJM2068D-D        | 2    | 2  | 2  | 2  |            | C |                  |
| N                   | IC101                   | 10370338 | IC                       | TA8227APG-D12-H-T | 1    | 1  | 1  | 1  |            | X |                  |
|                     | IC301                   | 10222381 | LSI                      | ST7066U-0A-QG     | 1    | 1  | 1  | 1  |            | C |                  |
|                     | Q106                    | 10206835 | TRANSISTOR               | KTA1046-Y-U/P     | 1    | 1  | 1  | 1  |            | X |                  |
|                     | VR301                   | 69304870 | VARIABLE RESISTOR        | EVND8AA03B53      | 1    | 1  | 1  | 1  |            | X | Contrast for LCD |
|                     | D103,D104,<br>D301-D308 | 23901820 | DIODE                    | 1SS355TE-17       | 10   | 10 | 10 | 10 |            | X |                  |
|                     | D101,D102               | 10261170 | DIODE                    | SRT14-A2          | 2    | 2  | 2  | 2  |            | X |                  |
|                     | D105                    | 23603102 | DIODE                    | UDZSTE-175.1B     | 1    | 1  | 1  | 1  |            | X |                  |
|                     | TH301                   | 10245365 | THERMISTOR               | TSM1A103J34D3RZ   | 1    | 1  | 1  | 1  |            | X |                  |
| N                   | Q102,Q104,<br>Q108,Q109 | 10399706 | TRANSISTOR               | DSC500100L        | 4    | 4  | 4  | 4  |            | X |                  |
|                     | Q105                    | 10217742 | TRANSISTOR               | KTA1270-Y-AT/P    | 1    | 1  | 1  | 1  |            | X |                  |
|                     | Q101                    | 10206675 | TRANSISTOR               | KTA1273-Y-AT/P    | 1    | 1  | 1  | 1  |            | X |                  |
| <b>KEYBOARD PCB</b> |                         |          |                          |                   |      |    |    |    |            |   |                  |
|                     | 3                       | 10401014 | PCB UNIT/KYA             | TK-RJM508609*003  | 1    | 1  | 1  | 1  |            | C | KYA1/KYA2        |
|                     | D801-D830,<br>D832      | 10301580 | DIODE                    | LM1MA142WAT1G     | 31   | 31 | 31 | 31 |            | X |                  |
| <b>PANEL UNIT</b>   |                         |          |                          |                   |      |    |    |    |            |   |                  |
| N                   | 4                       | 10402407 | DISPLAY PLATE            | RJM511072-001V02  | 1    | 1  | 1  | 1  |            | X |                  |
| N                   | 5                       | 10199714 | KNOB/SLIDE               | RJM503803-002V01  | 1    | 1  | 1  | 1  |            | X |                  |
| N                   | 6                       | 10394574 | CASE/PANEL               | RJM511042-001V01  | 1    | 1  | 1  | 1  |            | X |                  |
|                     | 7                       | 69276630 | FABRIC TAPE/8X15         | M440832-1         | 2    | 2  | 2  | 2  |            | X |                  |
|                     | 8                       | 69270510 | SLIDE CONTACT/8D         | CSB-08D           | 1    | 1  | 1  | 1  |            | X |                  |
| N                   | 8-1                     | 10417025 | FABRIC TAPE/SL           | RJM511833-001V01  | 1    | 1  | 1  | 1  |            | X |                  |
| N                   | 9                       | 10402514 | SHEET/for fireproofing   | RJM511371-001V02  | 1    | 1  | 1  | 1  |            | X |                  |
| N                   | 10                      | 10405127 | LCD                      | ZAS-TY012725DN00  | 1    | 1  | 1  | 1  |            | X |                  |
| N                   | 11                      | 10301465 | RUBBER CONNECTOR/for LCD | RJM508539-001V01  | 2    | 2  | 2  | 2  |            | X |                  |
| N                   | 12                      | 10400577 | RUBBER BUTTON/A          | RJM511051-001V01  | 1    | 1  | 1  | 1  |            | X |                  |
| N                   | 13                      | 10400579 | RUBBER BUTTON/B          | RJM511052-001V01  | 1    | 1  | 1  | 1  |            | X |                  |
| N                   | 14                      | 10400581 | RUBBER BUTTON/C          | RJM511053-001V01  | 1    | 1  | 1  | 1  |            | X |                  |
| N                   | 15                      | 10400583 | RUBBER BUTTON/D          | RJM511054-001V01  | 1    | 1  | 1  | 1  |            | X |                  |
| N                   | 16                      | 10400585 | RUBBER BUTTON/E          | RJM511055-001V01  | 1    | 1  | 1  | 1  |            | X |                  |
| N                   | 17                      | 10400589 | RUBBER BUTTON/F          | RJM511056-001V01  | 1    | 1  | 1  | 1  |            | X |                  |
| N                   | 18                      | 10400591 | RUBBER BUTTON/G          | RJM511057-001V01  | 1    | 1  | 1  | 1  |            | X |                  |

- 1: CTK-2200\_DI
- 2: CTK-2200\_EU
- 3: CTK-2200\_UK
- 4: CTK-2200\_US

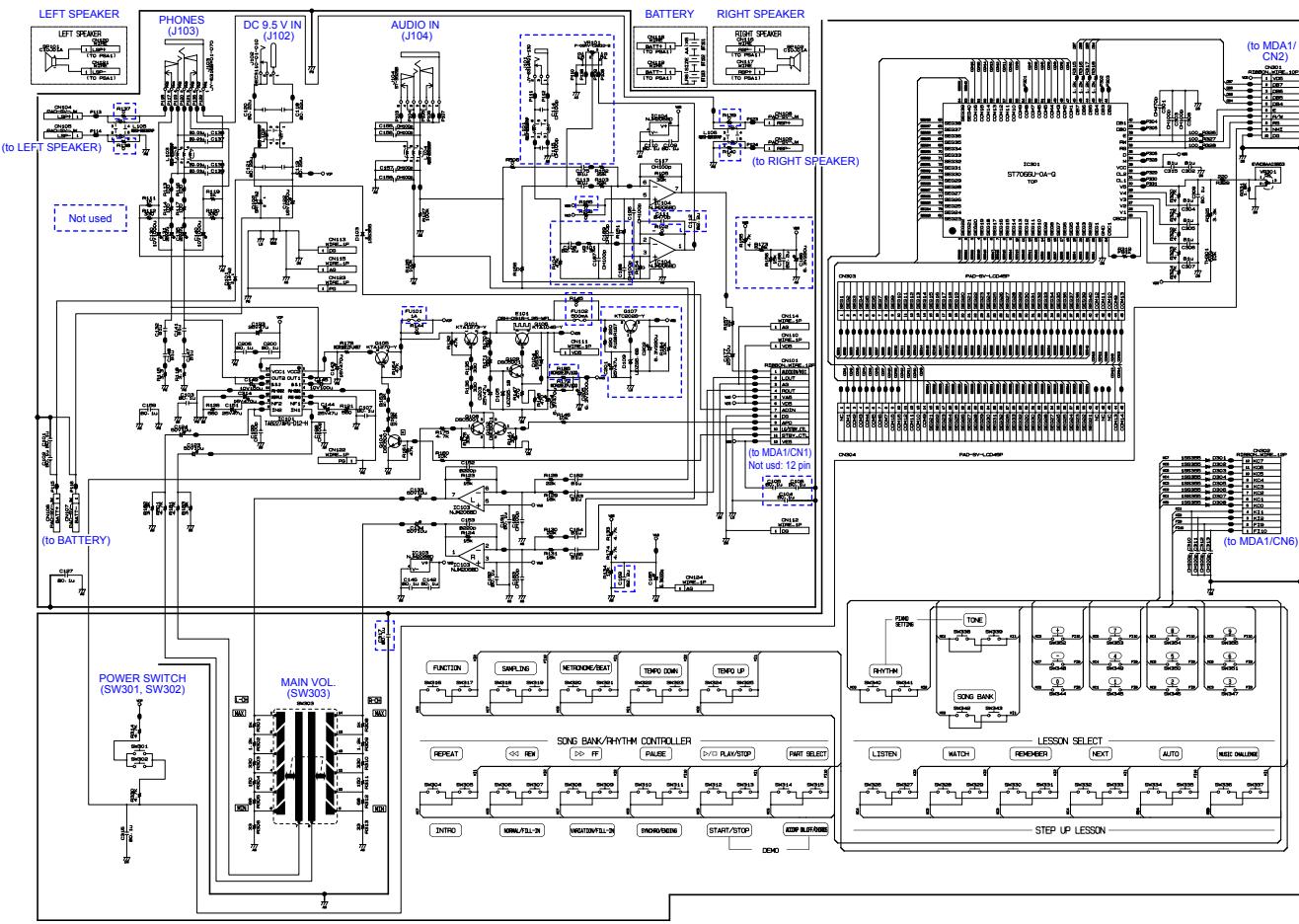
| N                      | Item | Code No. | Parts Name                | Specification      | Q'ty |   |   |   | Price Code | R | Remarks           |
|------------------------|------|----------|---------------------------|--------------------|------|---|---|---|------------|---|-------------------|
|                        |      |          |                           |                    | 1    | 2 | 3 | 4 |            |   |                   |
| <b>SIDE PANEL UNIT</b> |      |          |                           |                    |      |   |   |   |            |   |                   |
| N                      | 19   | 10394575 | CASE/SIDE PANEL/LEFT      | RJM511043-001V01   | 1    | 1 | 1 | 1 |            | X |                   |
| N                      | 20   | 10394576 | CASE/SIDE PANEL/RIGHT     | RJM511044-001V01   | 1    | 1 | 1 | 1 |            | X |                   |
| N                      | 21   | 10405274 | PACKING/8X200             | RJM511196-002V01   | 2    | 2 | 2 | 2 |            | X |                   |
| N                      | 22   | 10264808 | SPEAKER                   | C10J01A            | 2    | 2 | 2 | 2 |            | X |                   |
| N                      | 23   | 10402403 | WIRE/BLUE                 | 1007TASC24300B3030 | 2    | 2 | 2 | 2 |            | X | for Speaker (+)   |
| N                      | 24   | 10402404 | WIRE/WHITE                | 1007TASC24300W3030 | 2    | 2 | 2 | 2 |            | X | for Speaker (-)   |
| N                      | 25   | 10345562 | SPONGE/20X200             | M440755-001V01     | 2    | 2 | 2 | 2 |            | X | for Speaker wires |
| <b>KEYBOARD UNIT</b>   |      |          |                           |                    |      |   |   |   |            |   |                   |
| N                      | 26   | 10399802 | WHITE KEY/CB              | TK-RJM507243*004   | 4    | 4 | 4 | 4 |            | A |                   |
| N                      | 27   | 10399803 | WHITE KEY/CS              | TK-RJM507244*004   | 1    | 1 | 1 | 1 |            | X |                   |
|                        | 28   | 10289646 | BLACK KEY/10p             | RJM506595-005V02   | 2    | 2 | 2 | 2 |            | A |                   |
|                        | 29   | 10289647 | BLACK KEY/5p              | RJM506595-006V02   | 1    | 1 | 1 | 1 |            | X |                   |
|                        | 30   | 10163902 | RUBBER CONTACT/CB         | RJM503854-001V01   | 4    | 4 | 4 | 4 |            | A |                   |
|                        | 31   | 10163903 | RUBBER CONTACT/CS         | RJM503855-001V01   | 1    | 1 | 1 | 1 |            | X |                   |
| N                      | 32   | 69268840 | FABRIC TAPE/4X10          | M440684-1          | 3    | 3 | 3 | 3 |            | X |                   |
|                        | 33   | 10263729 | SPONGE/43X180             | M441123-001V01     | 1    | 1 | 1 | 1 |            | X |                   |
| <b>MAIN CASE UNIT</b>  |      |          |                           |                    |      |   |   |   |            |   |                   |
|                        | 34   | 10401011 | CASE UNIT/MAIN            | TK-RJM511213*001   | 1    | 1 | 1 | 1 |            | X |                   |
|                        | 35   | 10284332 | BRACKET/for STAND         | M440866-001V02     | 2    | 2 | 2 | 2 |            | X |                   |
|                        | 36   | 69226920 | RUBBER FOOT               | M41361-6           | 4    | 4 | 4 | 4 |            | X |                   |
| N                      | 37   | 10373683 | FELT/LOWER LIMIT/KEYBOARD | RJM508593-001V02   | 1    | 1 | 1 | 1 |            | X |                   |
|                        | 37-1 | 10317116 | FELT/DAMPER/KEYBOARD      | RJM509138-001V01   | 1    | 1 | 1 | 1 |            | X |                   |
| N                      | 38   | 10373681 | FELT/UPPER LIMIT/KEYBOARD | M440342-001V03     | 1    | 1 | 1 | 1 |            | X |                   |
| N                      | 39   | 10400576 | BATTERY TERMINAL/+        | RJM511046-001V01   | 1    | 1 | 1 | 1 |            | X |                   |
| N                      | 40   | 10380432 | BATTERY TERMINAL/-        | M440002-001V03     | 1    | 1 | 1 | 1 |            | X |                   |
|                        | 41   | 69271060 | BATTERY TERMINAL/A        | M440676-1          | 2    | 2 | 2 | 2 |            | X |                   |
|                        | 42   | 69271070 | BATTERY TERMINAL/B        | M440677-1          | 3    | 3 | 3 | 3 |            | X |                   |
| N                      | 43   | 10243428 | BATTERY COVER             | TK-M340884*020     | 1    | 1 | 1 | 1 |            | X |                   |
| N                      | 44   | 10381069 | LOWER COVER/A             | RJM508655-001V04   | 1    | 1 | 1 | 1 |            | X |                   |
| N                      | 45   | 10381070 | LOWER COVER/B             | RJM508656-001V04   | 1    | 1 | 1 | 1 |            | X |                   |
| N                      | 46   | 10381071 | LOWER COVER/C             | RJM508657-001V04   | 1    | 1 | 1 | 1 |            | X |                   |
| <b>ACCESSORIES</b>     |      |          |                           |                    |      |   |   |   |            |   |                   |
| N                      | -    | 10366857 | MUSIC STAND               | RJM510426-001V01   | 1    | 1 | 1 | 1 |            | C |                   |
| N                      | -    | 10399696 | AC ADAPTOR                | AD-E95100LG-P2     |      | 1 |   |   |            | B |                   |
| N                      | -    | 10408260 | AC ADAPTOR                | AD-E95100LU-P2     |      |   |   | 1 |            | B |                   |

## **SCHEMATIC DIAGRAMS**

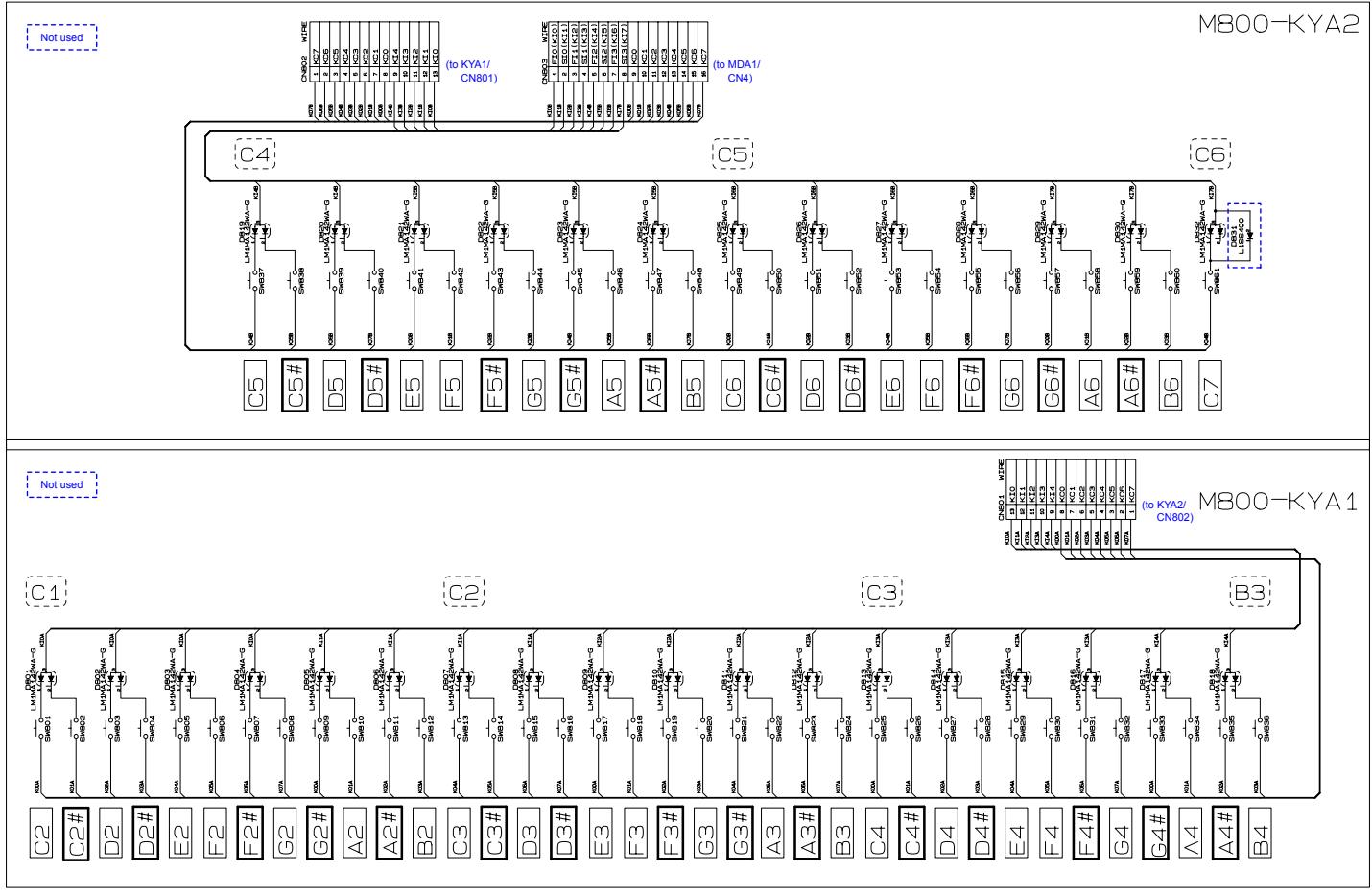
Main PCB: M822-MDA1



Sub PCB: M822-PSA1



Keyboard PCB: M800-KYA1/KYA2



Ver. 1 : Jul. 2011

- Correction of the PARTS LIST (P28)

Ver. 2 : Feb. 2011

- Correction of the EXPLODED VIEW (P26)
- Correction of the PARTS LIST (P28 and P29)

**CASIO COMPUTER CO.,LTD.**  
Overseas Service Division

6-2, Hon-machi 1-Chome  
Shibuya-ku, Tokyo 151-8543, Japan