

CASIO®

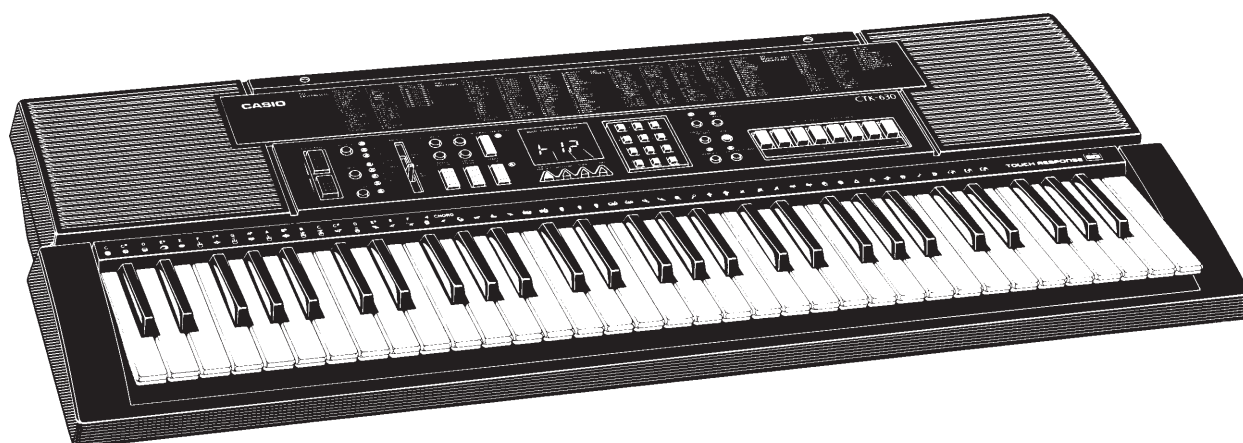
Service Manual

(without price)

CTK-630

CONTENTS

| | Page |
|------------------------------|------|
| Specifications | 2 |
| Block Diagram | 3 |
| Circuit Description | 4 |
| Troubleshooting | 10 |
| Major Waveforms | 11 |
| Printed Circuit Boards | 12 |
| Schematic Diagrams | 13 |
| Exploded View | 16 |
| Parts List | 17 |



CTK-630

INDEX

ELECTRONIC KEYBOARD

SPECIFICATIONS

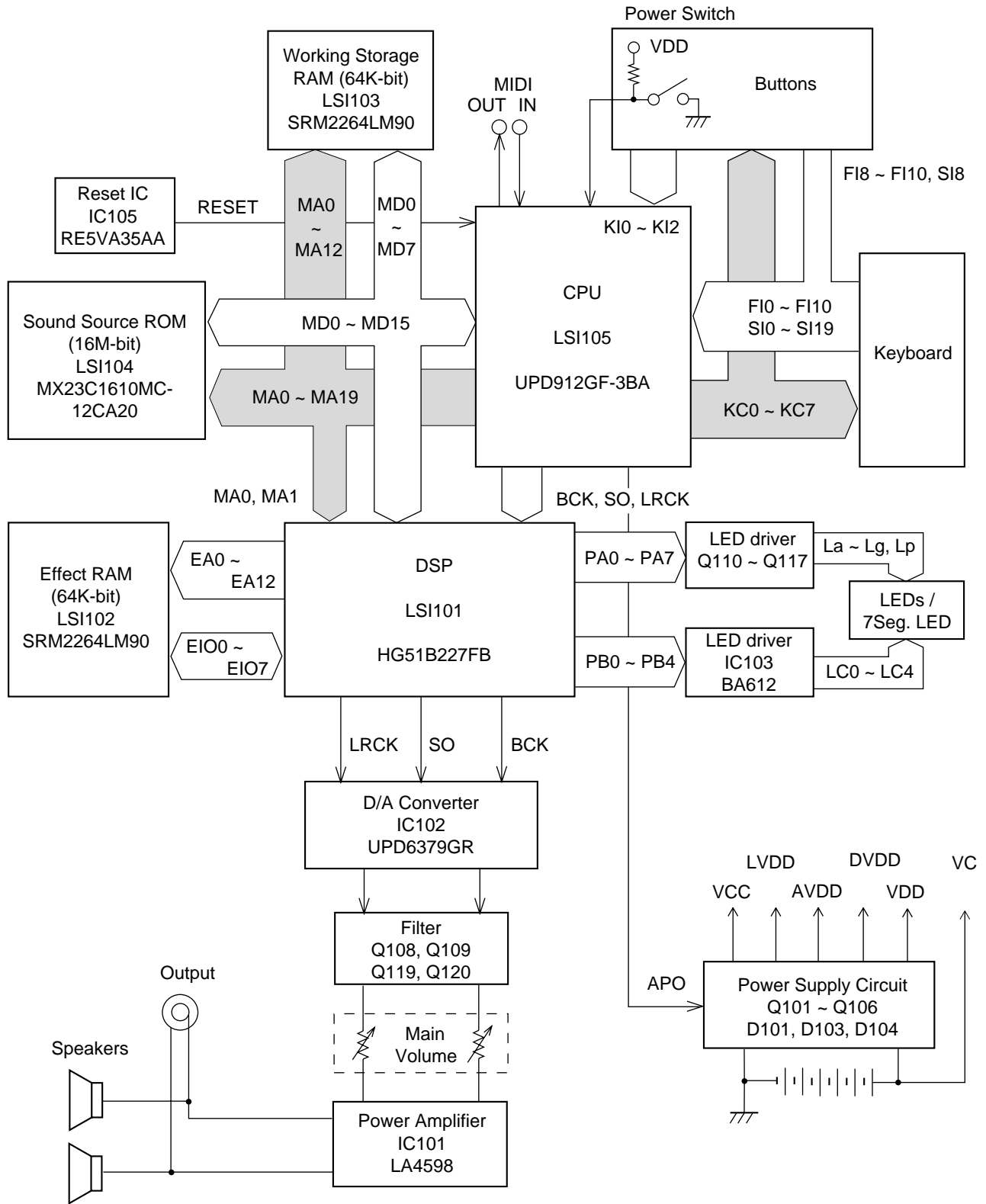
GENERAL

| | |
|---------------------|---|
| Number of keys: | 61 |
| Polyphonic: | 24-note |
| Preset tones: | 100, Tone expander: Layer On/Off, Split On/Off |
| Keyboard controls: | Touch response: On/Off, Key transpose: Range from F# to F by a semitone increment, Pitch bend: 12 steps up and down (a semitone at maximum) |
| Auto-rhythms: | 100, Tempo control: 40 to 255 |
| Auto-accompaniment: | Mode: CASIO Chord/Fingered/Full-Range Chord 1/ Full-Range Chord 2 Controller: Intro/Fill-In, Synchro/Ending, Normal/Variation |
| Easy presets: | 50, including — Free Session (Chord): 30, Free Session (Song): 10, Melody Composition: 10 |
| Reverb effects: | Hall/Stage/Room |
| Musical pads: | 8 |
| Pad variations: | 50, including — Pops: 10, Rock: 10, Jazz/Fusion: 10, Dance/Funk: 10 European: 2, Latin/Various: 5, Drums/Percussion: 5 |
| Song memory: | 3, Real-time recording, Memory capacity: Approx. 1200 notes in total |
| Demo tunes: | 3, including — A Night has 9000 Bars (arranged and programmed by Thomas Hirsch), Wanting This (Edward Alstrom), Supersonic Remorse (Edward Alstrom) |
| Demo tune program: | Repeat/Skip |
| Tuning control: | 440Hz ± 50 cents |
| Built-in speakers: | 12 cm dia. 2 W input rating: 2 pcs. |
| MIDI: | 16 multi-channel reception |
| Terminals: | Phone Jack [Output impedance: 90 Ω, Output voltage: 4.6 V(rms) MAX], Sustain Jack, MIDI Jacks (IN, OUT), AC Adapter Jack (9 V) |
| Auto power off: | Approximately 6 minutes after the last operation |
| Power source: | 2-way AC or DC source AC: AC adapter DC: 6 D size dry batteries |
| Power consumption: | 7.7 W |
| Dimensions (HWD): | 104 x 931 x 353 mm (4-1/16 x 36-5/8 x 13-7/8 inches) |
| Weight: | 4.7 kg (10.4 lbs) including batteries |

ELECTRICAL

| | Nominal | Limit |
|---|---------|---------------|
| Current drain with 9 V DC: | | |
| No sound output | 220 mA | 220 mA ± 30 % |
| Maximum volume | 900 mA | 900 mA ± 30 % |
| with white keys C4 to G5 pressed in Recorder tone | | |
| Volume: maximum, Touch response: maximum | | |
| Layer: On, Reverb: Off | | |
| Phone output level (Vrms with 8 Ω load each channel): | | |
| with key C4 pressed in Recorder tone | 125 mV | 125 mV ± 30 % |
| Sound pressure (at 10 cm away from speaker): | | |
| with key A3 pressed in Recorder tone | 98 dB | 98 dB ± 10 dB |
| Minimum operating voltage: | 5.8 V | 6.0 V |

BLOCK DIAGRAM

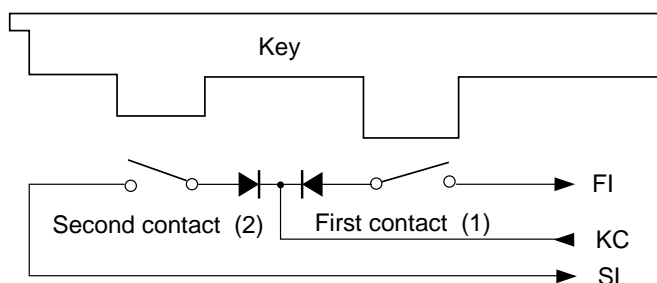


CIRCUIT DESCRIPTION

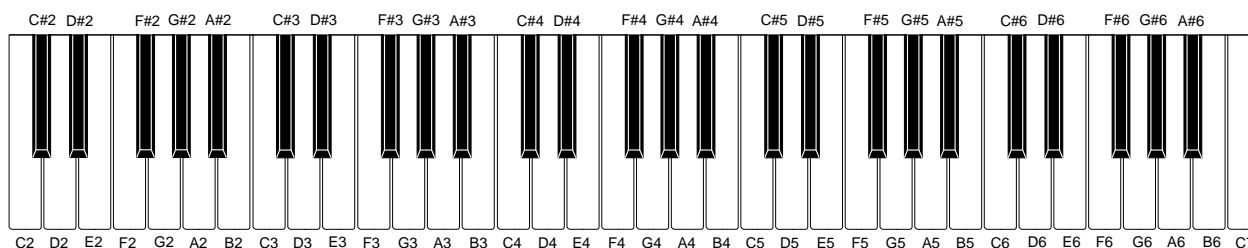
KEY MATRIX

| | KC0 | KC1 | KC2 | KC3 | KC4 | KC5 | KC6 | KC7 |
|-------------|-------------------|--------------------|----------------|----------------------|-------------|---------------|-------------------------|---------------------------|
| FI0 | C2 (1) | C#2 (1) | D2 (1) | D#2 (1) | E2 (1) | F2 (1) | F#2 (1) | G2 (1) |
| SI0 | C2 (2) | C#2 (2) | D2 (2) | D#2 (2) | E2 (2) | F2 (2) | F#2 (2) | G2 (2) |
| FI1 | G#2 (1) | A2 (1) | A#2 (1) | B2 (1) | C3 (1) | C#3 (1) | D3 (1) | D#3 (1) |
| SI1 | G#2 (2) | A2 (2) | A#2 (2) | B2 (2) | C3 (2) | C#3 (2) | D3 (2) | D#3 (2) |
| FI2 | E3 (1) | F3 (1) | F#3 (1) | G3 (1) | G#3 (1) | A3 (1) | A#3 (1) | B3 (1) |
| SI2 | E3 (2) | F3 (2) | F#3 (2) | G3 (2) | G#3 (2) | A3 (2) | A#3 (2) | B3 (2) |
| FI3 | C4 (1) | C#4 (1) | D4 (1) | D#4 (1) | E4 (1) | F4 (1) | F#4 (1) | G4 (1) |
| SI3 | C4 (2) | C#4 (2) | D4 (2) | D#4 (2) | E4 (2) | F4 (2) | F#4 (2) | G4 (2) |
| FI4 | G#4 (1) | A4 (1) | A#4 (1) | B4 (1) | C5 (1) | C#5 (1) | D5 (1) | D#5 (1) |
| SI4 | G#4 (2) | A4 (2) | A#4 (2) | B4 (2) | C5 (2) | C#5 (2) | D5 (2) | D#5 (2) |
| FI5 | E5 (1) | F5 (1) | F#5 (1) | G5 (1) | G#5 (1) | A5 (1) | A#5 (1) | B5 (1) |
| SI5 | E5 (2) | F5 (2) | F#5 (2) | G5 (2) | G#5 (2) | A5 (2) | A#5 (2) | B5 (2) |
| FI6 | C6 (1) | C#6 (1) | D6 (1) | D#6 (1) | E6 (1) | F6 (1) | F#6 (1) | G6 (1) |
| SI6 | C6 (2) | C#6 (2) | D6 (2) | D#6 (2) | E6 (2) | F6 (2) | F#6 (2) | G6 (2) |
| FI7 | G#6 (1) | A6 (1) | A#6 (1) | B6 (1) | C7 (1) | | | |
| SI7 | G#6 (2) | A6 (2) | A#6 (2) | B6 (2) | C7 (2) | | | |
| FI8 | Pad A (1) | Pad B (1) | Pad C (1) | Pad D (1) | Pad E (1) | Pad F (1) | Pad G (1) | Pad H (1) |
| SI8 | Pad A (2) | Pad B (2) | Pad C (2) | Pad D (2) | Pad E (2) | Pad F (2) | Pad G (2) | Pad H (2) |
| FI9 | Intro/ Fill-In | Synchro/ Ending | Start/ Stop | | | | | |
| FI10 | Bend Up | Bend Down | | Normal/ Variation | Tempo Up | Tempo Down | Accomp. Volume Up | Accomp. Volume Down |
| KI0 | Mode | Reverb | 0 | 1 | 4 | 7 | Layer | Split |
| KI1 | Rhythm | Tone | - | 2 | 5 | 8 | Transpose Tune/MIDI | Demo |
| KI2 | Easy Preset | Pad | + | 3 | 6 | 9 | Memory | Touch Response |

Note: Each key has two contacts, the first contact (1) and second contact (2).



NOMENCLATURE OF KEYS



POWER SUPPLY CIRCUIT

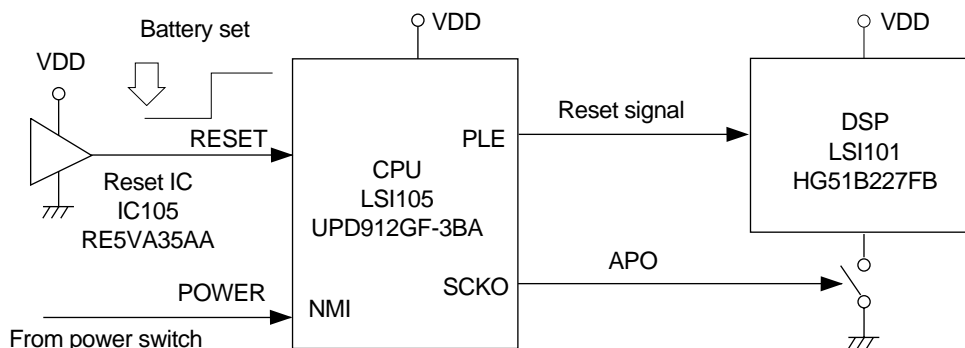
The power supply circuit generates six voltages as shown in the following table. VDD voltage is always generated. The others are controlled by APO signal from the CPU.

| Name | Voltage | For operation of |
|------|---------|---|
| VDD | +5 V | CPU, Reset IC, DSP, Sound source ROM, Working storage RAM, Effect RAM |
| DVDD | +5 V | Power jack, Sustain jack, MIDI jack |
| AVDD | +5V | DAC, Filter |
| LVDD | +4.5 V | LED Driver |
| VCC | +9 V | Power amplifier, Pilot lamp |
| VC | +9 V | Power amplifier |

RESET CIRCUIT

When batteries are set or an AC adapter is connected, the reset IC provides a low pulse to the CPU. The CPU then initializes its internal circuit, and clears the working storage RAM.

When the power switch is pressed, the CPU receives a low pulse of POWER signal. The CPU sends APO signal to supply ground source for the DSP, also sends a reset signal to the DSP.



CPU (LSI105: UPD912GF-3BA)

The 16-bit CPU contains a 1k-byte RAM, three 8-bit I/O ports, two timers, a keycontroller and serial interfaces. The CPU detects key velocity by counting the time between first-key input signal FI and second-key SI from the keyboard. The CPU reads sound data and velocity data from the sound source ROM in accordance with the selected tone; the CPU can read rhythm data simultaneously when a rhythm pattern is selected. Then the CPU provides 16-bit serial sound data to the DSP. The CPU also controls MIDI input/output and stores sequencer data into the working storage RAM.

The following table shows the pin functions of LSI105.

| Pin No. | Terminal | In/Out | Function |
|---------|------------------------|--------|--|
| 1 | TXD0 | Out | MIDI signal input |
| 2 | RXD0 | In | MIDI signal output |
| 3 | SCK0 | Out | APO (Auto Power Off) signal output |
| 4, 5 | TXD1, RXD2 | — | Not used. Connected to ground. |
| 6 | SCK1 | Out | 1 MHz synchronizing pulse output |
| 7 | AVCC | In | Ground (0 V) source |
| 8, 9 | AN0, AN1 | — | Not used. Connected to ground. |
| 10 | AGND | In | Ground (0 V) source |
| 11 | BCK | Out | Bit clock output |
| 12 | SO | Out | Serial sound data output |
| 13 | LRCK | Out | Word clock output |
| 14 | GND | In | Ground (0 V) source |
| 15, 16 | XLT0, XLT1 | In/Out | 20 MHz clock input/output |
| 17 | VCC | In | +5 V source |
| 18, 19 | MD0, MD1 | In | Mode selection terminal |
| 20 | RSTB | In | Reset signal input |
| 21 | NMI | In | Power ON signal input |
| 22 | INT | — | Not used. Connected to ground. |
| 23 ~ 30 | FI0 ~ FI3 SI0 ~ SI3 | In | Terminal for key input signal |
| 31 ~ 38 | KC0 ~ KC7 | Out | Terminal for key scan signal |
| 39 ~ 46 | FI4 ~ FI7 SI4 ~ SI7 | In | Terminal for key input signal |
| 47, 48 | FI8, SI8 | In | Terminal for pad input signal |
| 49 | FI9 | In | Terminal for button input signal |
| 50 | SI9 | In | Sustain signal input |
| 51 | FI10 | In | Terminal for button input signal |
| 52 | SI10 | In | Not used |
| 53 ~ 55 | KI0 ~ KI2 | In | Terminal for button input signal |
| 56 | MWNB | Out | Write enable signal output |
| 57 ~ 76 | MA0 ~ MA17 | Out | Address bus |
| 77 | MCSB0 | Out | Chip enable signal output for the sound source ROM |
| 78 | MCSB1 | Out | Not used |
| 79 | MCSB2 | Out | Chip enable signal output for the DSP |

| Pin No. | Terminal | In/Out | Function |
|---------|------------|--------|--|
| 80 | VCC | In | +5 V source |
| 81 | GND | In | Ground (0 V) source |
| 82 | MRDB | Out | Read enable signal output for the sound source ROM |
| 83 ~ 98 | MD0 ~ MD15 | In/Out | Data bus |
| 99 | PLE | Out | Reset signal output for the DSP |
| 100 | P17 | In | APO cancellation signal input |

DIGITAL SIGNAL PROCESSOR (LSI101: HG51B227FB)

The DSP receives 16-bit serial sound data output from the CPU and adds the selected effect to the sound data using the effect RAM. Then the DSP provides the sound data to the DAC. The DSP contains two I/O ports, which controls LEDs.

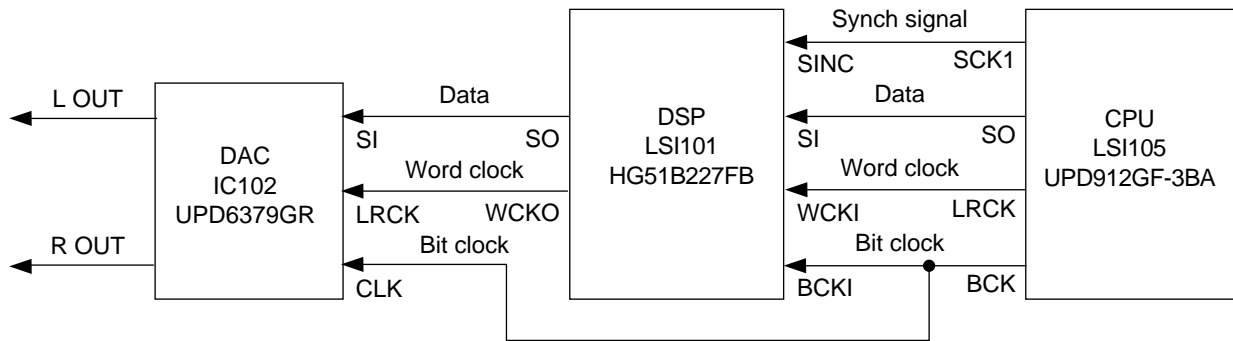
The following table shows the pin functions of LSI101.

| Pin No. | Terminal | In/Out | Function |
|---------------------------------|-------------|--------|---|
| 1 ~ 4, 80 | PB0 ~ PB4 | Out | LED drive signal output |
| 5 | SO | Out | Serial sound data output for the DAC |
| 6 | WCKO | Out | Word clock output for the DAC |
| 7 | VDD3 | In | +5 V source |
| 8 | TEST | — | Not used. |
| 9 | RESB | In | Reset signal input |
| 10 | VSS2 | In | Ground (0 V) source |
| 11, 12 | XIN, XOUT | In/Out | 16 MHz clock input/output |
| 13 | WCKI | In | Word clock input from the CPU |
| 14 | SI | In | Serial sound data input from the CPU |
| 15 | BCKI | In | Bit clock input from the CPU |
| 16 | SINC | In | 1 MHz synchronizing pulse input |
| 17 | VDD2 | In | +5 V source |
| 18 ~ 25 | IO0 ~ IO7 | In/Out | Data bus |
| 26 | RCEB | Out | Chip enable signal output for the working storage RAM |
| 27 | VSS3 | In | Ground (0 V) source |
| 28 | AD1 | In | Address bus |
| 29 | OEB | In | Not used. Connected to +5 V source. |
| 30 | WEB | In | Write enable signal input |
| 31 | VDD3 | In | +5 V source |
| 32 | CE2 | In | Chip enable signal input. High active. |
| 33 | AD0 | In | Address bus |
| 34 | CE1B | In | Chip enable signal input. Low active. |
| 35 ~ 41, 43 | EIO0 ~ EIO7 | In/Out | Data bus for the effect RAM |
| 42, 44, 46 ~ 48, 51 ~ 57, 59 | EA0 ~ EA12 | Out | Address bus for the effect RAM |
| 45 | ECEB | Out | Chip enable signal output for the effect RAM |
| 49 | EOEB | Out | Read enable signal output for the effect RAM |

| Pin No. | Terminal | In/Out | Function |
|-----------------------------------|-----------|--------|---|
| 50 | VSS3 | In | Ground (0 V) source |
| 58 | EA13 | Out | Not used |
| 60 | EWEB | Out | Write enable signal output for the effect RAM |
| 61 | EA14 | Out | Not used |
| 62, 66, 70, 74, 78 | VSS2 | In | Ground source |
| 63, 67, 71, 75, 79 | VDD2 | In | +5 V source |
| 64, 65, 68, 69, 72, 73, 76, 77 | PA0 ~ PA7 | Out | LED segment signal output |

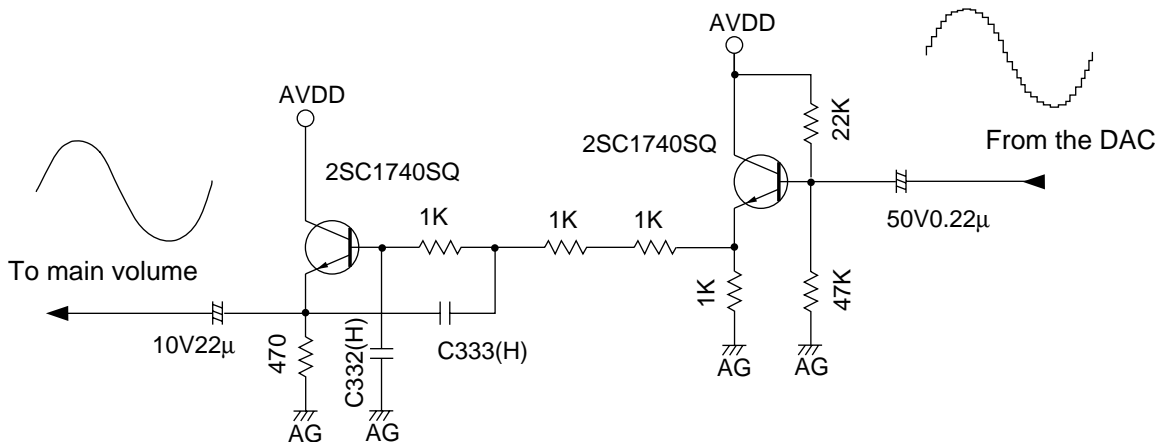
DAC (IC102: UPD6379GR)

The DAC receives 16-bit serial data output from the DSP. The data contains digital sound data of the melody, chord, bass, and percussion for the right and left channels. The DAC converts the data into analog waveforms and output them to each channel separately.



FILTER BLOCK

Since the sound signals from the DAC are stepped waveforms, the filter block is added to smooth the waveforms.

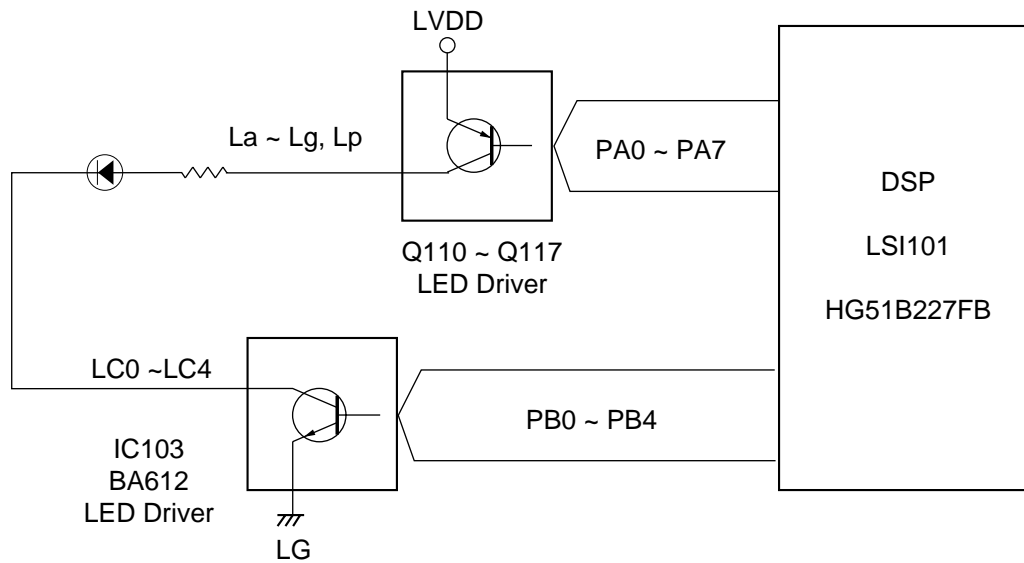


POWER AMPLIFIER (IC101: LA4598)

The power amplifier is a two-channel amplifier with standby switch.
The following table shows the pin function of IC101.

| Pin No. | Terminal | In/Out | Function |
|---------|-----------|--------|--|
| 1 | Power GND | In | Ground (0V) source |
| 2 | Ch1 B.S. | — | Terminal for a bootstrap capacitor |
| 3 | Ch1 OUT | Out | Channel 1 output |
| 4 | VCC | In | +9V source |
| 5 | Ch1 N.F. | In | Negative feedback input |
| 6 | Ch1 IN | In | Channel 1 input |
| 7 | D.C. | — | Terminal for a decoupling capacitor |
| 8 | Pre GND | In | Ground (0V) source |
| 9 | Stand by | In | Power control signal input. 0 V: Off, +9 V: On |
| 10 | Ch2 IN | In | Channel 2 input |
| 11 | Ch2 N.F. | In | Negative feedback input |
| 12 | Ch2 OUT | Out | Channel 2 output |
| 13 | Ch2 B.S. | — | Terminal for a bootstrap capacitor |
| 14 | NC | — | Not used |

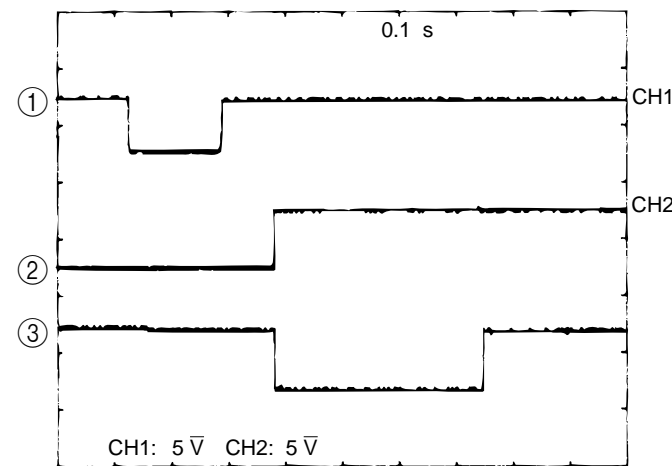
LED DRIVING



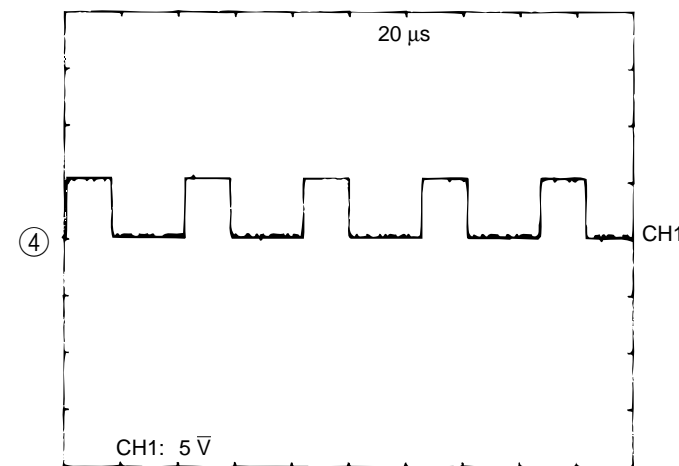
TROUBLESHOOTING

| Nature of Trouble | Faulty Block | Cause/Remedy |
|---|------------------------------|---|
| No power | Power supply circuit | Faulty Q101 ~ Q106. Replace Q101 ~ Q105. |
| | | Faulty D101 ~ D105. Replace D101 ~ D105. |
| | Power jack (J101) | Open J101 or poor soldering. Replace J101 or resolder. |
| | Reset IC (IC105) | Faulty IC105. Replace IC105. |
| | CPU (LSI105) | Faulty LSI105. Replace LSI105. |
| | Oscillator (X102) | Open X102. Replace X102. |
| No sound at all | Power amp (IC101) | Open or shorted IC101. Replace IC101. |
| | CPU (LSI105) | Faulty LSI105. Replace LSI105. |
| | Sound source ROM (LSI104) | Faulty LSI104. Replace LSI104. |
| | DSP (LSI101) | Faulty LSI101. Replace LSI101. |
| | Oscillator (X101) | Open X101. Replace X101. |
| | DAC (IC102) | Faulty IC102. Replace IC102. |
| | Working storage RAM (LSI103) | Faulty LSI103. Replace LSI103. |
| Distorted sound | Sound source ROM (LSI104) | Faulty LSI104. Replace LSI104. |
| | DSP (LSI101) | Faulty LSI101. Replace LSI101. |
| | Effect RAM (LSI102) | Faulty LSI102. Replace LSI102. |
| | Power amp (IC101) | Open or shorted IC101. Replace IC101. |
| Certain keys do not function | Key matrix | Open circuit on KC, FI or SI line. Replace keyboard PCB assembly. |
| Certain buttons do not function | Button matrix | Open circuit on KC, FI, SI or KI line. Replace console PCB assembly. |
| A certain button or key does not function | Key or button matrix | Dust on the contact. Clean the contact. |

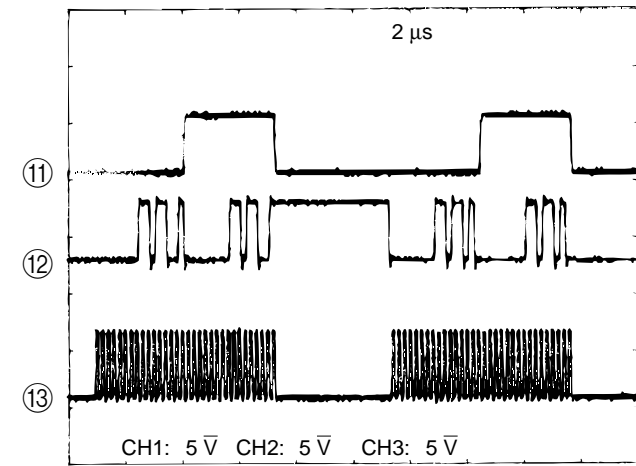
MAJOR WAVEFORMS



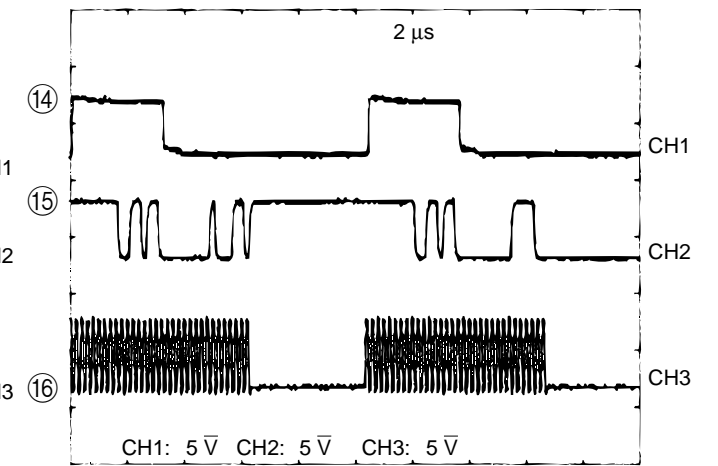
- ① POWER ON signal
UPD912GF-3BA pin 21
- ② APO signal
UPD912GF-3BA pin 3
- ③ Reset signal for the DSP
UPD912G-3BA pin 99



- ④ Synchronizing pulse
UPD912GF-3BA pin 6

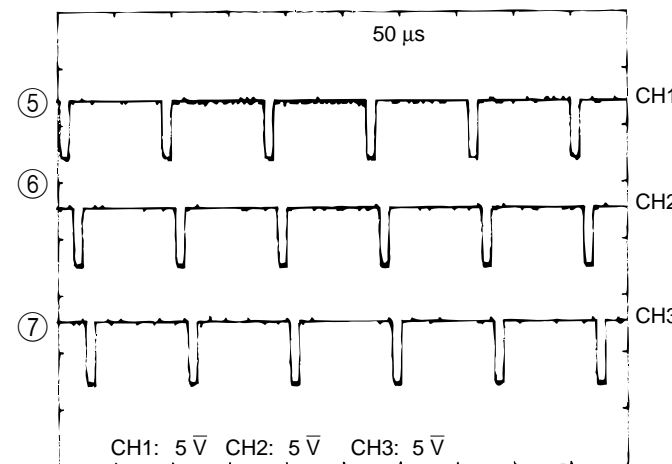


- ⑪ Word clock LRCK
UPD912GF-3BA pin 13
- ⑫ Data signal SO
UPD912GF-3BA pin 12
- ⑬ Bit clock BCK
UPD912GF-3BA pin 11

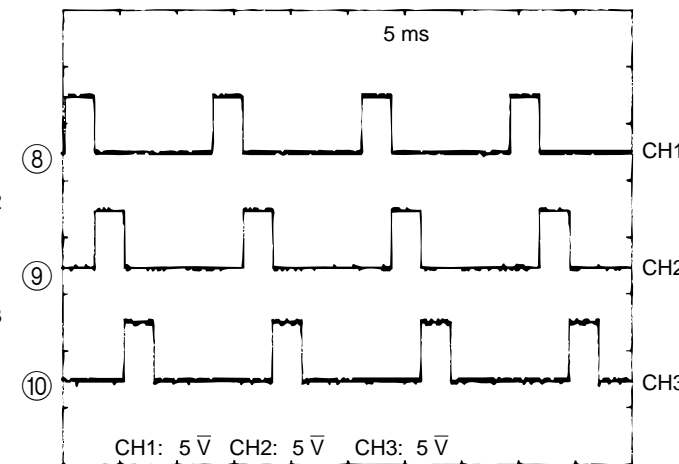


- ⑭ Word clock LRCK
UPD6379GR pin 1
- ⑮ Data signal SI
UPD6379GR pin 2
- ⑯ Bit clock CLK
UPD6379GR pin 3

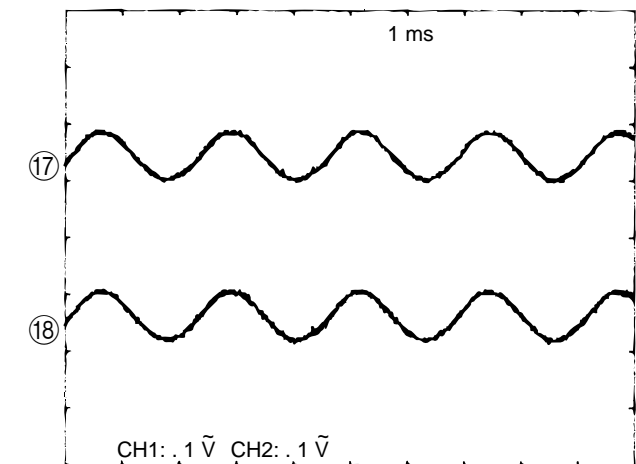
Note: On



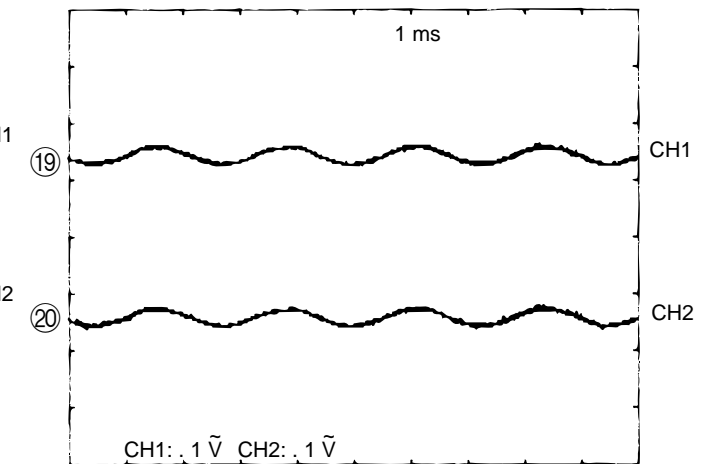
- ⑤ Key scan signal KC0
UPD912GF-3BA pin 31
- ⑥ Key scan signal KC1
UPD912GF-3BA pin 32
- ⑦ Key scan signal KC2
UPD912GF-3BA pin 33



- ⑧ LED drive signal PB0
HG51B227FB pin 80
- ⑨ LED drive signal PB1
HG51B227B pin 1
- ⑩ LED drive signal PB2
HG51B227FB pin 2



- ⑰ DAC output (R-ch)
UPD6379GR pin 5
- ⑱ DAC output (L-ch)
UPD6379GR pin 8

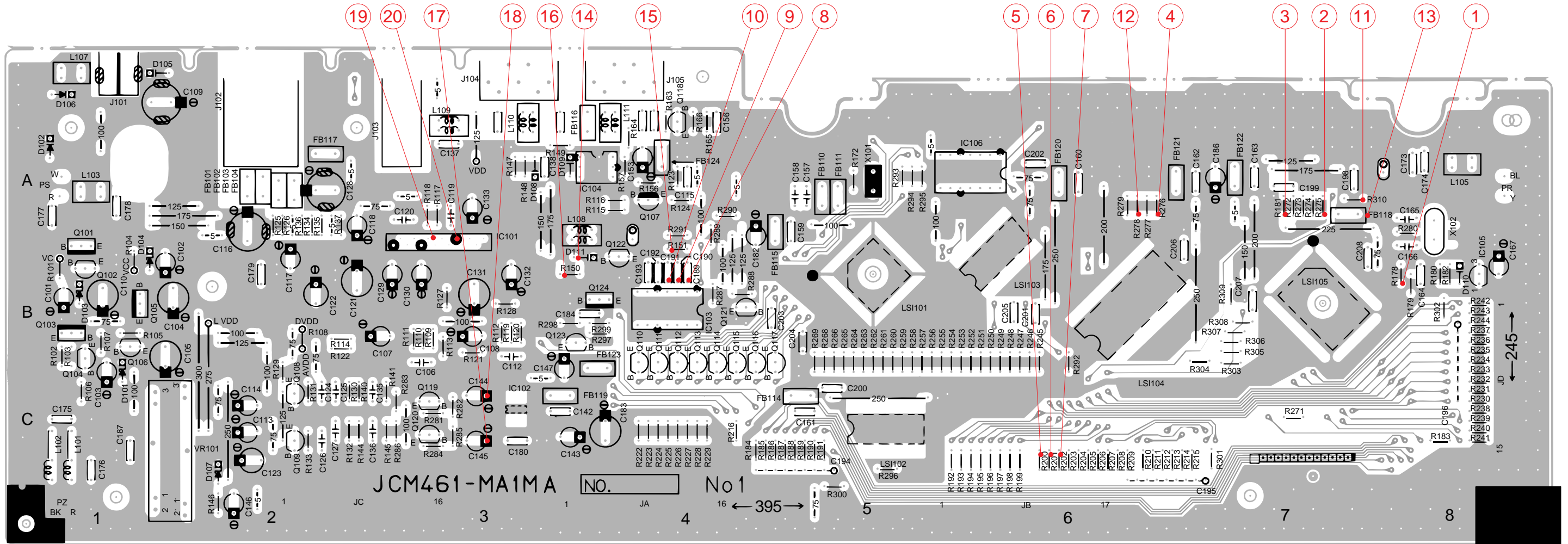


- ⑲ Amp. input (R-ch)
LA4598 pin 6
- ⑳ Amp. input (L-ch)
LA4598 pin 10

Tone : Whistle (70)
Key : A4
Touch response : Off
Reverb : Off
Volume : Maximum

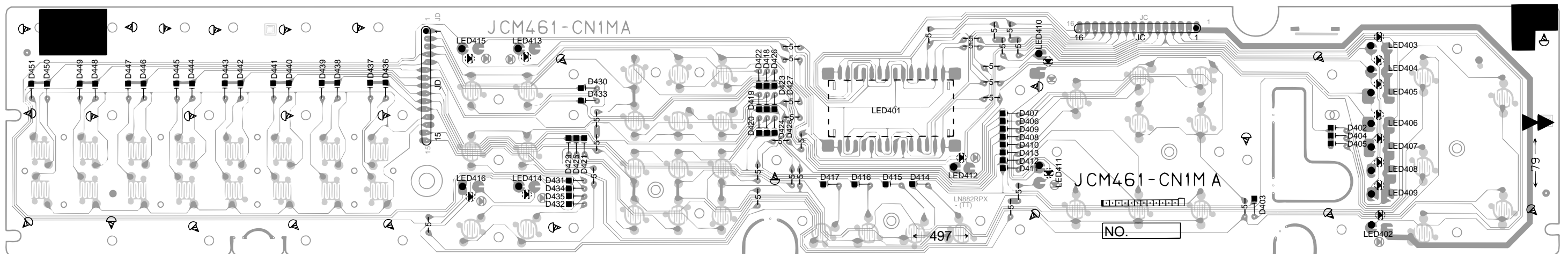
PRINTED CIRCUIT BOARDS

Main PCB JCM461-MA1M



Top View

Console PCB JCM461-CN1M



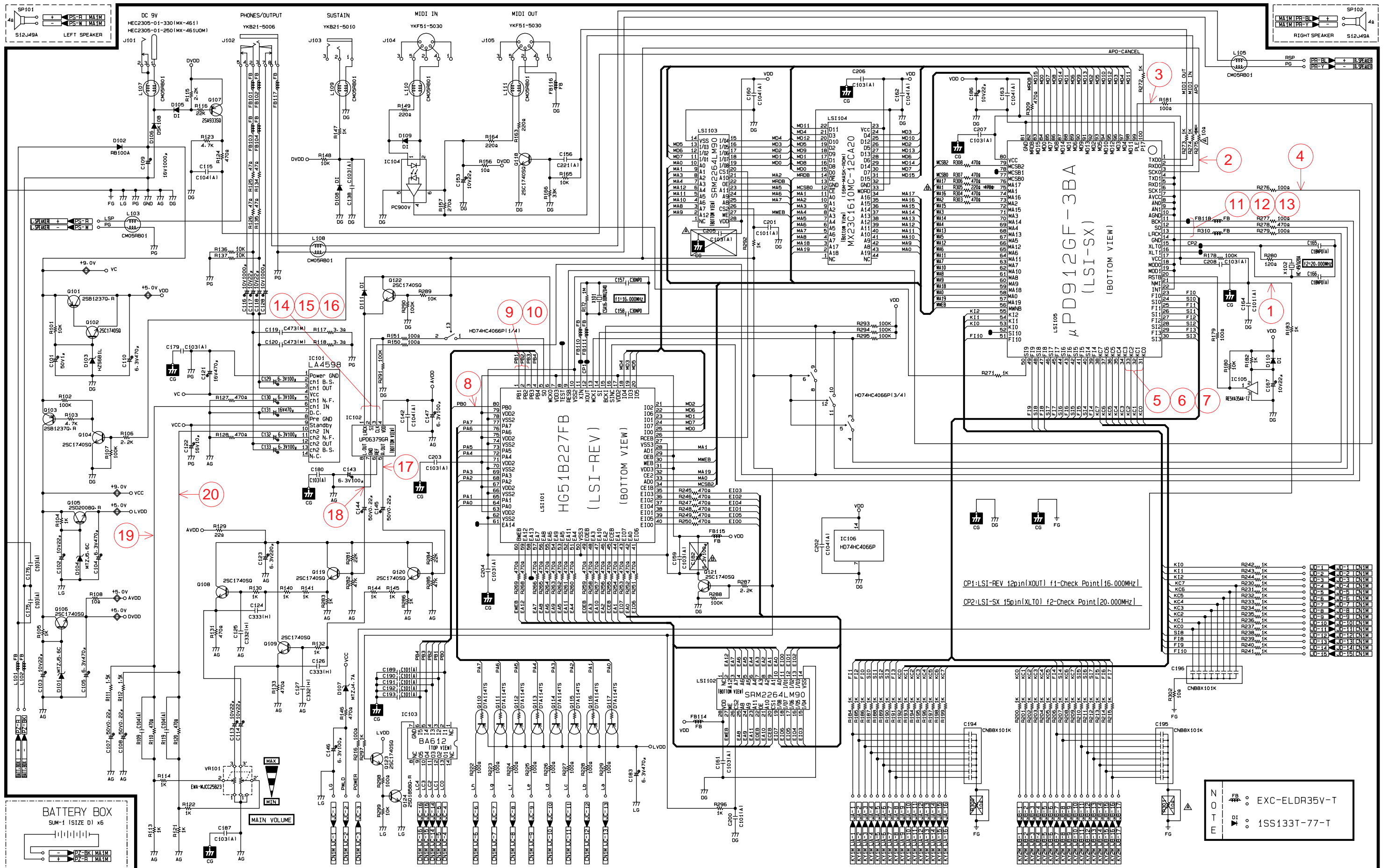
Top View

SCHEMATIC DIAGRAMS

Main PCB JCM461-MA1M

Notes:

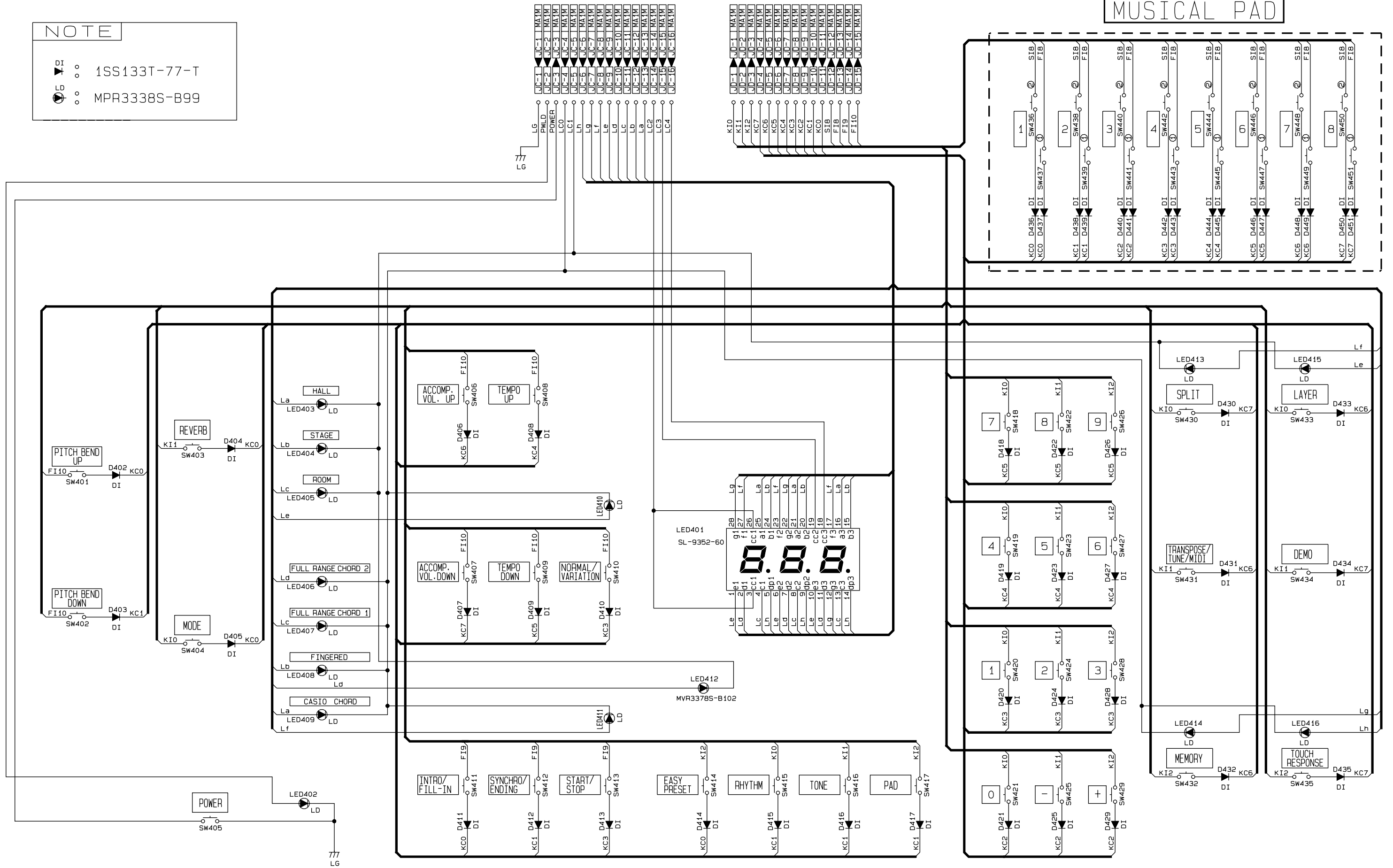
1. All capacitance values are indicated in "μF" (p=10⁻⁶ μF).
2. All resistance values are indicated in "Ω" (k=10³ Ω, M=10⁶ Ω).



Console PCB JCM461-CN1M

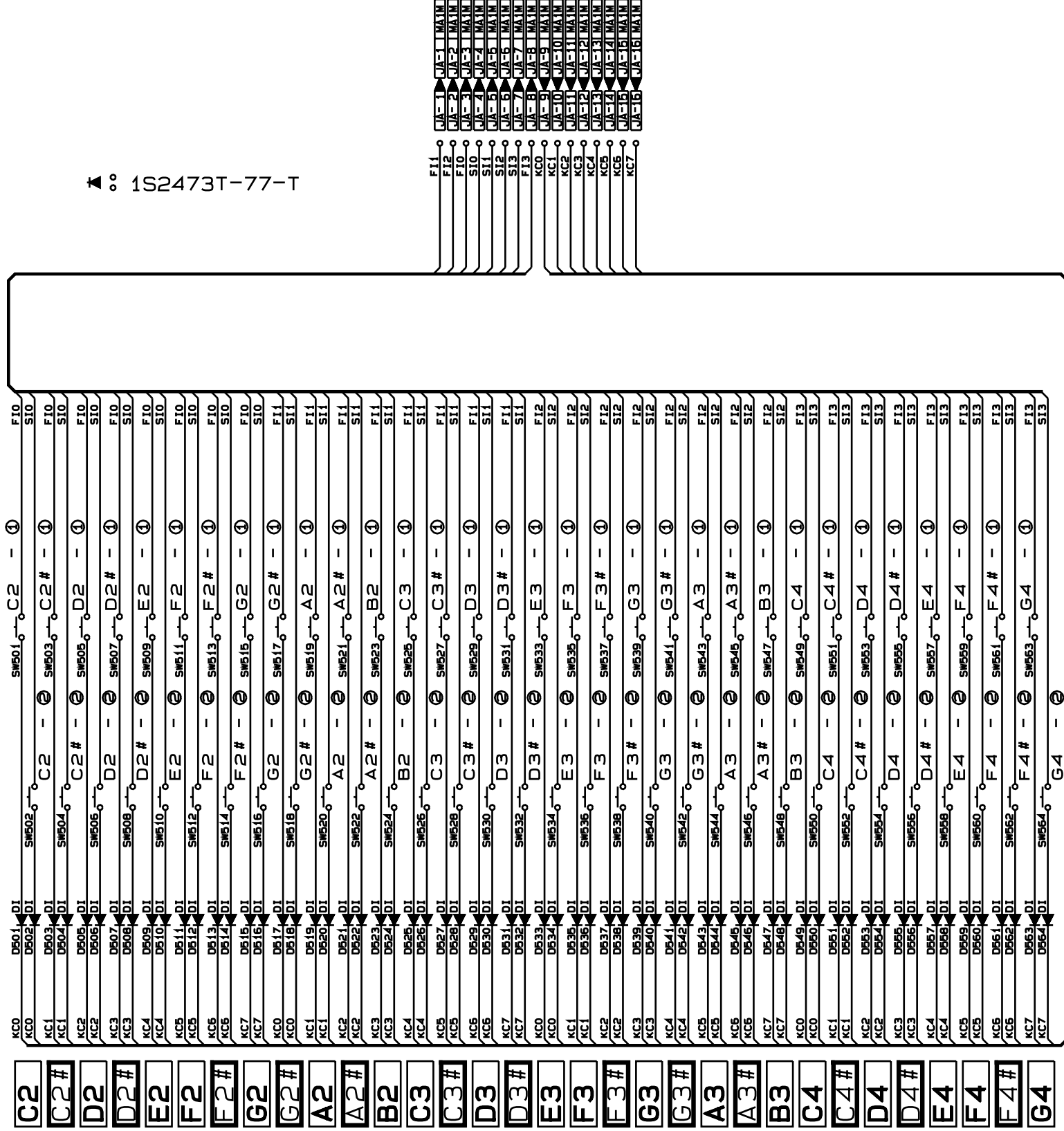
NOTE

DI ○ 1SS133T-77-T
 LB ○ MPR3338S-B99

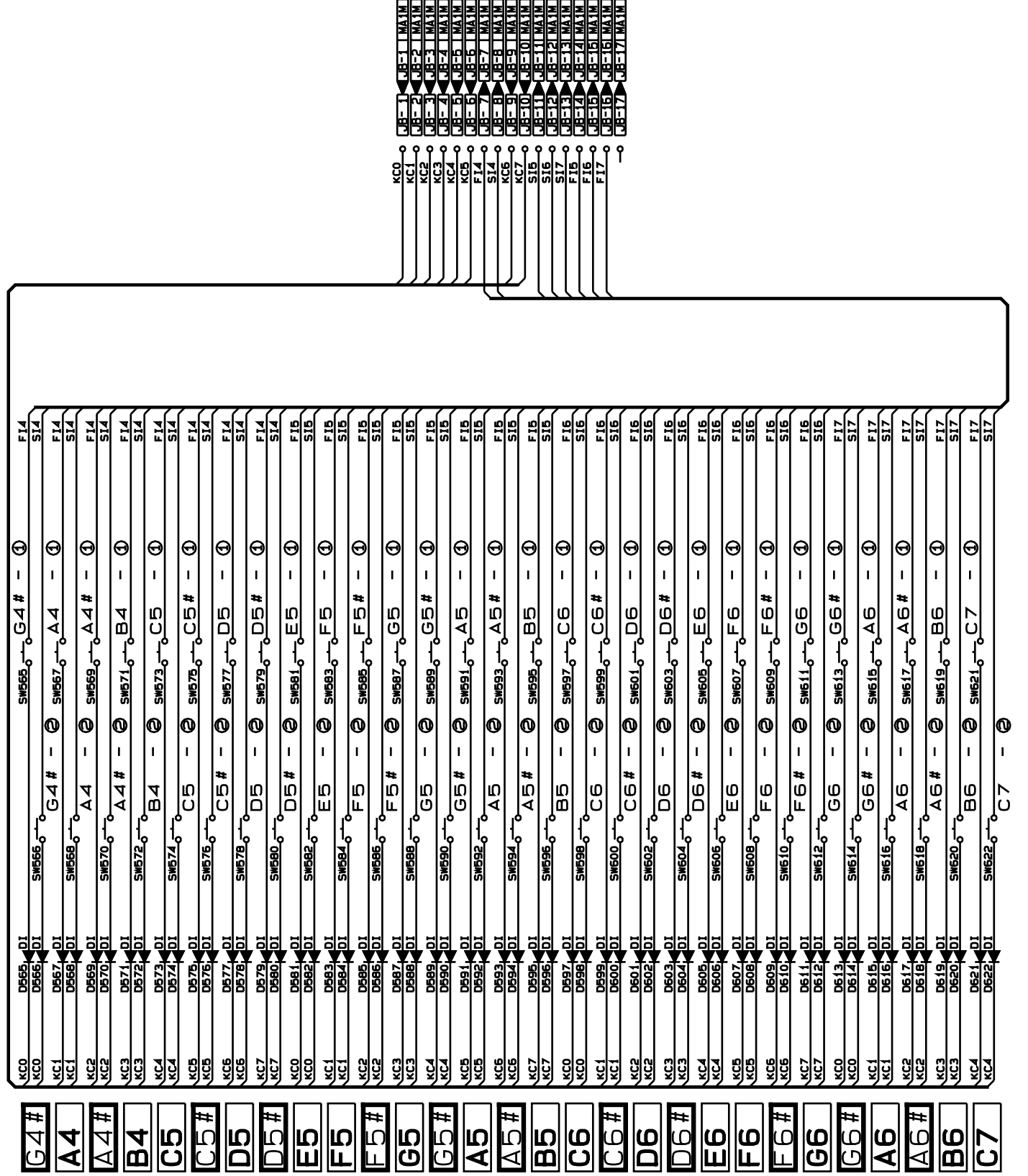


JCM617T-KY1M

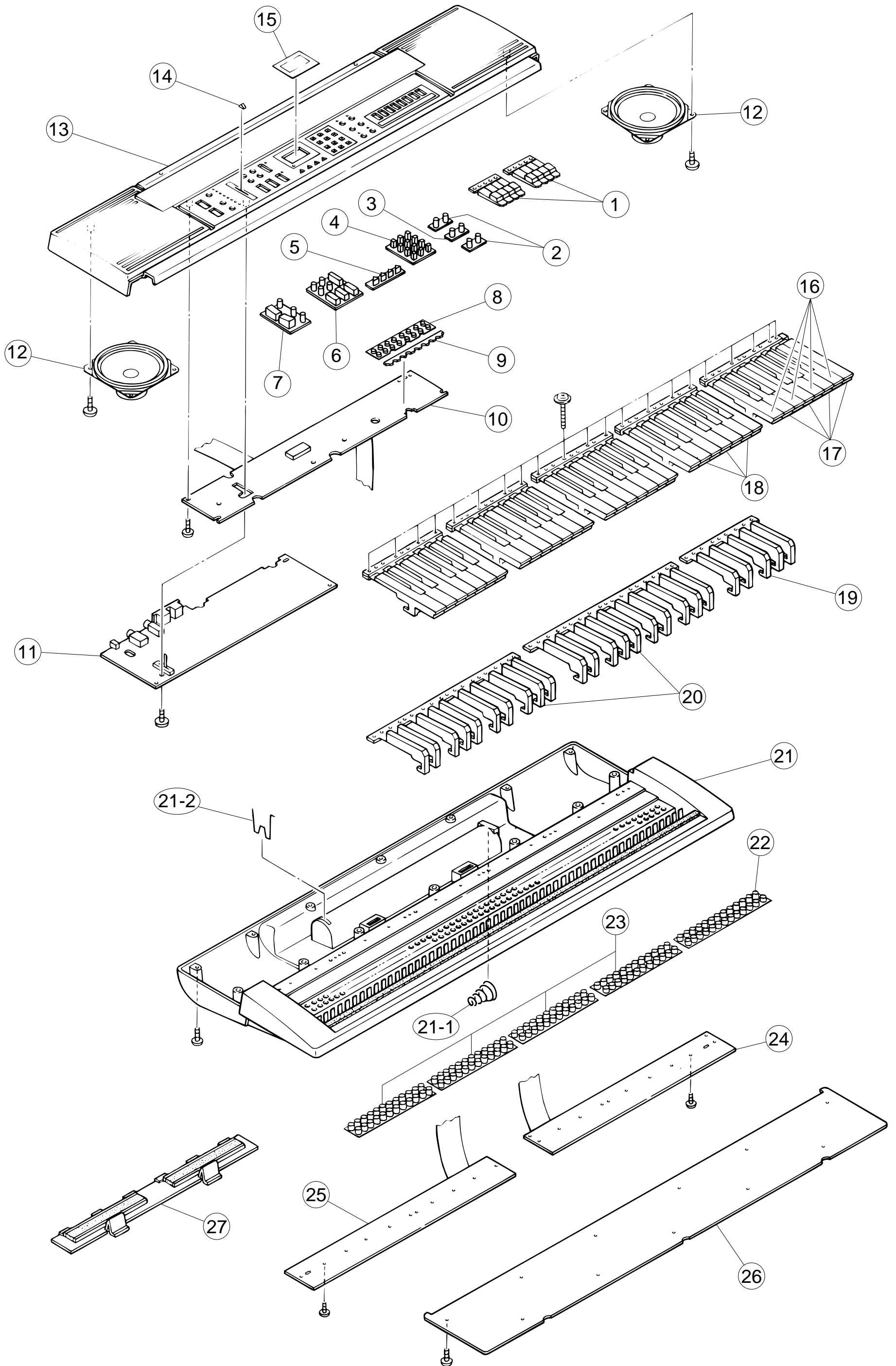
▲: 1S2473T-77-T



JCM617T-KY2M



EXPLODED VIEW



PARTS LIST

CTK-630

- Notes:
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.

| N | Item | Code No. | Parts Name | Specification | Q | R |
|-------------------------|---|-----------|-----------------------|--------------------|----|---|
| Main PCB | | | | | | |
| N | 11 | 6923 7120 | PCB ass'y JCM461-MA1M | M140225*1 | 1 | A |
| N | LSI101 | 2012 0441 | LSI, DSP | HG51B227FB | 1 | A |
| N | LSI102/103 | 2012 0434 | LSI, RAM | SRM2264LM90 | 2 | A |
| N | LSI104 | 2012 0707 | LSI, ROM | MX23C1610MC-12CA20 | 1 | A |
| | LSI105 | 2012 0168 | LSI, CPU | UPD912GF-3BA | 1 | A |
| | IC101 | 2114 2891 | IC | LA4598 | 1 | A |
| | IC102 | 2105 4249 | LSI, DAC | UPD6379GR | 1 | A |
| | IC103 | 2114 3318 | IC | BA612 | 1 | B |
| | IC104 | 2114 1421 | IC | PC900V | 1 | B |
| | IC105 | 2105 3941 | IC | RE5VA35AA-TZ | 1 | B |
| | IC106 | 2105 2919 | IC | HD74HC4066P | 1 | B |
| | Q101, Q103 | 2251 0469 | Transistor | 2SB1237Q.R-TV6-T | 2 | A |
| | Q102, Q104, Q106, Q108/109, Q118~123 | 2220 1387 | Transistor | 2SC1740SQ-TP-T | 11 | B |
| | Q105 | 2253 0357 | Transistor | 2SD2008Q.R-T105-T | 1 | A |
| | Q107 | 2200 4409 | Transistor | 2SA933-SQ-TP-T | 1 | B |
| | Q110~117 | 2259 1883 | Digitasl transistor | DTA114TS-TP-T | 8 | B |
| | Q124 | 2253 0448 | Transistor | 2SD1858Q.R-TV6-T | 1 | A |
| | D101, D104 | 2360 1946 | Zener diode | MTZJ5.6C-77-T | 2 | A |
| | D102 | 2390 1316 | Diode | SB10-04A3-BT-T | 1 | B |
| | D103 | 2360 1085 | Zener diode | HZS6B1LTD-T | 1 | B |
| | D105, D108~111 | 2390 1344 | Diode | 1SS133T | 5 | B |
| | D106 | 2390 0371 | Diode | DSK10B-BT-T | 1 | B |
| | D107 | 2360 2079 | Zener diode | MTZJ4.7A-77-T | 1 | A |
| | C194~196 | 2845 0168 | Module capacitor | CNB8X101K | 3 | C |
| | J101 | 3501 7049 | Jack, Power | HEC2305-01-330 | 1 | A |
| | J102 | 3612 0517 | Jack | YKB21-5005 | 1 | B |
| | J103 | 3612 0789 | Jack | YKB21-5010 | 1 | B |
| | J104/105 | 3501 9506 | Jack, DIN | YKF51-5030 | 1 | C |
| | VR101 | 2765 1344 | Volume | EWA-MJCC25B23 | 1 | B |
| | X101 | 2590 0203 | Ceramic oscillator | CSA16.00MX040 | 1 | B |
| | X102 | 2590 2009 | Crystal oscillator | HC-49/U20A | 1 | B |
| Console PCB | | | | | | |
| N | 10 | 6923 7130 | PCB ass'y, JCM461-CN1 | M140227*1 | 1 | B |
| | D402~451 | 2390 1344 | Diode | 1SS133T | 50 | C |
| | LED401 | 2370 1141 | LED | SL-9352-60 | 1 | C |
| | LED402~411, LED413~416 | 2370 1106 | LED | MPR3338S-B99 | 14 | C |
| | LED412 | 2370 1190 | LED | MVR3378S-B102 | 1 | C |
| Keyboard PCBs | | | | | | |
| | 25 | 6923 6940 | PCB ass'y M617T-KY1M | M140211*1 | 1 | B |
| | D501~D564 | 2301 0101 | Diode | 1S2473-T-77-T | 64 | C |
| | 24 | 6923 6950 | PCB ass'y M617T-KY2M | M140212*1 | 1 | B |
| | D565~D622 | 2301 0101 | Diode | 1S2473-T-77-T | 58 | C |
| Mechanical Parts | | | | | | |
| N | 1 | 6923 7210 | Plastic button | M240100-1 | 1 | C |
| | 2 | 6922 2680 | Rubber button | M312082-2 | 1 | B |
| | 3 | 6923 4340 | Rubber button | M312082-3 | 1 | B |
| | 4 | 6923 4331 | Rubber button | M312088A-2 | 1 | B |
| N | 5 | 6923 5030 | Rubber button | M312081-2 | 1 | B |

Notes: N – New parts
M – Minimum order/supply quantity
R – Rank

| N | Item | Code No. | Parts Name | Specification | Q | R |
|------------------|------|-----------|----------------------------|---------------|---|---|
| N | 6 | 6923 7200 | Rubber button | M240099-1 | 1 | B |
| N | 7 | 6923 7190 | Rubber button | M240098-1 | 1 | B |
| N | 8 | 6923 4740 | Button contct rubber | M240152-1 | 1 | B |
| | 12 | 3831 0833 | Speaker | S12J49A | 1 | B |
| N | 13 | 6923 7181 | Top panel | M240217A*1 | 1 | C |
| | 14 | 6921 5040 | Volume knob | M311860-1 | 1 | B |
| N | 15 | 6923 7170 | Window | M340085-1 | 1 | C |
| | 16 | 6922 2840 | White key set, CEGB | M111723-1 | 5 | A |
| | 17 | 6922 2860 | White key set, DFAS | M111725-1 | 1 | A |
| | 18 | 6922 2850 | White key set, DFA | M111724-1 | 4 | A |
| | 19 | 6922 2750 | Black key set, 5-Key | M111726-2 | 1 | A |
| | 20 | 6922 2740 | Black key set,10-Key | M111726-1 | 2 | A |
| | 21 | 6923 7060 | Case | M140171*1 | 1 | C |
| | 21-1 | 6902 6140 | Battery spring, (-) | M41226-1 | 1 | B |
| | 21-2 | 6903 2150 | Battery spring, (+) | M41330-1 | 1 | B |
| | 22 | 6922 2771 | Contact rubber, 32-Contact | M211705A-1 | 1 | B |
| | 23 | 6922 2761 | Contact rubber, 30-Contact | M211704A-1 | 1 | B |
| | 26 | 6923 7000 | Bottom plate | M240116-1 | 1 | C |
| | 27 | 6918 1636 | Battery cover | M311164F*1 | 1 | B |
| Accessory | | | | | | |
| | | 6916 7880 | Music stand | M310827-1 | 1 | B |

Notes: N – New parts
M – Minimum order/supply quantity
R – Rank

CASIO COMPUTER CO.,LTD.
Service Division

8-11-10, Nishi-Shinjuku
Shinjuku-ku, Tokyo 160, Japan
Telephone: 03-3347-4926