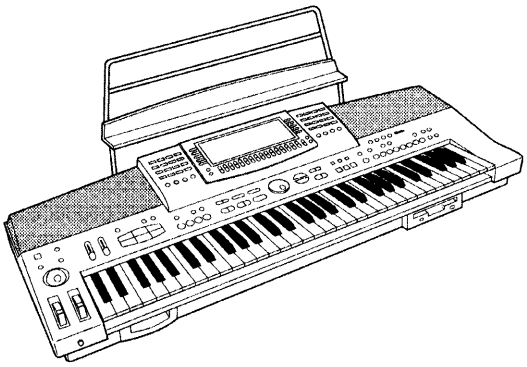
ORDER NO. EMID9908016C0
A5

# Service Manual

## PCM KEYBOARD



## SX-KN6000

| | |
|---|---|
| (M) | U.S.A. |
| (MC) | Canada |
| (XM) | Mexico |
| (EN) | Norway, Sweden, Denmark, Finland |
| (EH) | Holland, Belgium |
| (EF) | France, Italy |
| (EZ) | Germany |
| (EW) | Switzerland |
| (EA) | Austria |
| (EP) | Spain, Portugal, Greece, South Africa |
| (EK) | the United Kingdom |
| (XL) | New Zealand |
| (XR) | Australia |
| (XS) | Malaysia |
| (XD) | Hong Kong |
| (XT) | Taiwan |
| (X) | Thailand, Indnesia, U.A.E., Panama, Brasil |
| (XA) | Argentina |
| (XP) | Philippines |
| (XW) | Singapore |

## SPECIFICATIONS

| | |
|---|---|
| **KEYBOARD** | 61 KEYS (WITH INITIAL TOUCH) |
| **SOUND GENERATOR** | PCM |
| **MAX. POLYPHONY** | 64 NOTES |

**SOUNDS**

NUMBER OF SOUNDS:

1008 SOUNDS + 33 DRUM KITS + 2 DIGITAL DRAWBARS

SOUND GROUP:

PIANO, GUITAR, STRINGS & VOCAL, BRASS, MALLET & ORCH PERC, WORLD, ORGAN & ACCORDION, SAX & WOODWIND, PAD , SYNTH, BASS, DRUM KITS, DIGITAL DRAWBAR, ACCORDION REGISTER

SOUND EXPLORER:

Supported

Technics

SX-KN6000

| | |
|---|---|
| **EFFECT** | PART: |
| | SUSTAIN, DIGITAL EFFECT, SOUND DSP |
| | GLOBAL: |
| | REVERB, CHORUS, MULTI, MIC |
| **WHEEL** | PITCH BEND, MODULATION |
| **SOUND CONTROLLER** | Supported |
| **PART SELECT** | RIGHT 1, RIGHT 2, LEFT |
| **TRANSPOSE** | 2 OCTAVE |
| **RHYTHMS** | NUMBER OF RHYTHMS: |
| | 200 RHYTHMS × 4 VARIATIONS |
| | RHYTHM GROUP: |
| | 8 & 16 BEAT, POP, BALLAD, ROCK´N´ ROLL & BLUES, SOUL & FUNK, MODERN DANCE, U.S. TRAD, COUNTRY, BIG BAND & SWING, JAZZ COMBO, MARCH & WALTZ, BALL ROOM & SHOW TIME, LATIN, WORLD |
| **FAVORITES** | Supported |
| **CONTROLS** | MAIN VOLUME, BALANCE, MUTE, CONDUCTOR, START/STOP, INTRO & ENDING 1, INTRO & ENDING 2, FILL IN 1, FILL IN 2, COUNT INTRO, SYNCHRO&BREAK, TEMPO/PROGRAM, TAP TEMPO, FADE IN/OUT, SPLIT POINT |
| **PERFORMANCE PADS** | 20 PRESET BANKS × 6 PADS WITH SOLO |
| | USER BANK × 3, COMPILE BANKS × 2, CONTROL PRESET × 1 |
| | STOP, AUTO SETTING |
| **AUTO PLAY CHORD** | MODE: ONE FINGER, FINGERED, PIANIST |
| | MEMORY, ON BASS, CHORD FINDER, LEFT HOLD |
| **MUSIC STYLE ARRANGER** | Supported |
| **SOUND ARRANGER** | Supported |
| **MUSIC STYLIST** | Supported |
| **ONE TOUCH PLAY** | Supported |
| **TECHNI-CHORD** | Supported |
| **PANEL MEMORY** | 13 BANKS × 8, SET, NEXT BANK, BANK VIEW, CUSTOM PANEL |
| **SEQUENCER** | 16 TRACKS |
| | RESOLUTION: 1/96 PER BEAT |
| | STORAGE CAPACITY: APPROX.40000 NOTES (10 SONG MAX.) |
| | INPUT MODES: EASY RECORD, REALTIME RECORD, STEP RECORD |
| | FUNCTIONS: RECORD& EDIT, COPY & PASTE, RANGE EDIT |
| **COMPOSER** | 8 PARTS: BASS, ACCOMP 1 - DRUMS 1 |
| | STORAGE CAPACITY: APPRC 13000 NOTI |
| | INPUT MODES: EA: COMPOSER, REALTI RECORD, STEP RECOI |
| | FUNCTIONS: PATTERN COI CUSTOM STYLE COPY, SEQ COMPOSER COPY, LO/ SINGLE COMPOSI |
| | MEMORY: 3 BANI |
| **DISK DRIVE** | 3.5 inch FLOPPY DISK DRIVE 2HD (1.44MB), 2DD (720K |
| | LOAD, SAVE, DIRECT PLA SONG MEDLEY, DISK TOOL PREFERENCES, STY CONVERT, CUSTOM STY LOAD/SA' |
| **SOUND SETTING** | PART SETTING, MIXE MASTER TUNING, KI SCALING, TECHNI-CHOR SOUND LOAD OPTIC |
| **SOUND EDIT** | EASY EDIT, TONE, PITC FILTER, AMPLITUDE, LF EFFECT, CONTROLLE |
| | MEMORY: 40, 1 USER DRUM K |
| **REVERB & EFFECT** | MIC REVERB & EFFEC SOUND LOAD OPTIO ALLOCATION, MIXER, SOUI DSP, MULTI, CHORUS, REVER EQUALIZE |
| **CONTROL** | INITIAL, OVERALL TOUC SENSITIVITY, FOC CONTROLLERS, PANI MEMORY MODE, MUSIC STYI ARRANGER MODE, FAI IN/OUT SETTIN |
| **CUSTOMIZE** | HOME PAGE SETTIN FAVORITE SETTING, DISPLA TIME OUT, WALL PAPE SETTING, MIDI SETTING LOA OPTION, DATA PROTECTIO LANGUAGE SELECT, DIS PREFERENC |
| **MIDI** | PART SETTING, CONTRC MESSAGES, REALTIM MESSAGES, COMMC SETTING, INPUT/OUTPU SETTING, MIDI PRESETS, MOI SETTING, PROGRAM CHANC MIDI OUT, PANEL MEMOF OUTPUT, COMPUTE CONNECTIC |
| **DISPLAY** | LC |
| | PAGE, CONTRAST, EXI DISPLAY HOL |
| **HELP** | Supporte |
| **DEMO** | Supporte |

| | |
|---|---|
| **TERMINALS** | PHONES, FOOT SW 1, 2, FOOT CONTROLLER, EXP PEDAL, LINE OUT (R/R+L,L), AUX IN (R/R+L,L), COMPUTER, MIDI (IN, OUT,THRU), MIC |
| **OUTPUT** | 66 W (18 W × 2 FOR MID/HIGH, 30 W × 1 FOR BASS) |
| **SPEAKERS** | 12 cm × 2, 6.5 cm × 2 FOR MID/HIGH, 14 cm × 1 FOR BASS |
| **POWER REQUIREMENT** | 75 W<br>AC120/220/240V 50/60 Hz<br>AC120V 60 Hz (NORTH AMERICA AND MEXICO)<br>AC230-240V 50/60 Hz (EUROPE, AUSTRALIA, NEW ZEALAND, SINGAPORE AND PHILLIPPINES) |
| **DIMENSIONS (W×H×D)** | 106.3 cm × 20 cm × 41.8 cm (41-27/32' × 7-7/8' × 16-15/32') |
| **NET WEIGHT** | 15.4 kg (34 lbs) |
| **ACCESSORIES** | AC CORD, MUSIC STAND, STYLE CONVERT DISK, INITIAL DATA DISK |

## ⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

# CONTENTS

# 1 WARNING

To prevent the risk of fire, smoke, or electrical shock and to ensure safe operation, please be sure to follow the safety guidelines below.

1. At places where special caution is required, the necessary safety precautions are clearly labeled or printed, for example, on the cabinet, or on the part concerned. Please follow these safety precautions, and also those listed in the Owner's Manual.
2. Parts which have a ⚠ ; mark in the circuit diagram or in the parts list are essential for safety. When replacing these parts, be sure to use only the specified parts.
3. Use the specified types for internal wiring (double-insulated wiring, etc.).
4. When replacing parts on the AC primary side (power transformer, electric switch, electrical cord, noise-prevention condenser, etc.), wind the lead wire and secure it by soldering.
5. Do not let the wiring come into contact with heat-emittir devices (fuse resistor, radiator plate, etc.).
6. When replacing the wiring, make sure that it is not contact with the unfinished or rough edge of a part.
7. When replacing the power cord (except for the plug-type), tug it from various directions to confirm that it doe not slip out of place.
8. Spacing

   If soldering was done on the AC primary circuit, confirm th the interval between the soldered terminals or between tl terminal and surrounding metallic parts is at least tl minimum required (between the primary circuit and tl chassis: at least 6.5 mm; between primary circuit terminal at least 4.0 mm; between primary circuit terminals ar secondary circuit terminals: at least 6.5 mm.).

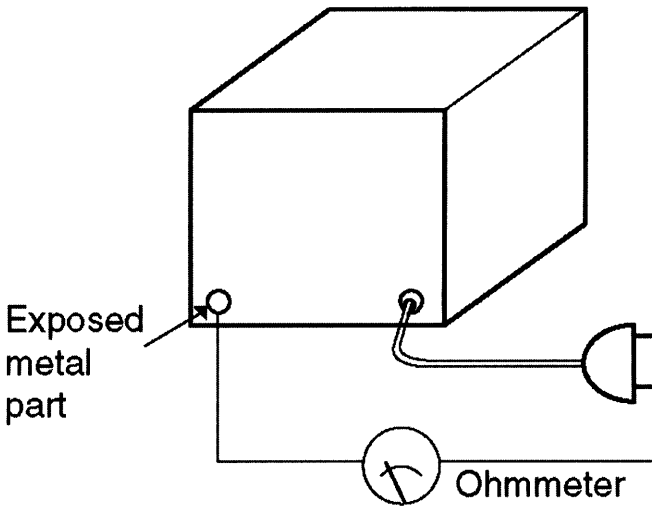
# 2 SAFETY PRECAUTION

## 2.1. Safety Precaution

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only the manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

## 2.2. Insulation Resistance Test

1. Unplug the power cord and short the prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screw heads, connectors, control shafts, handle brackets, etc. Measurements should range from 4 MOhm to infinity for all exposed parts.




Resistance = 4MΩ to ∞

Figure-1

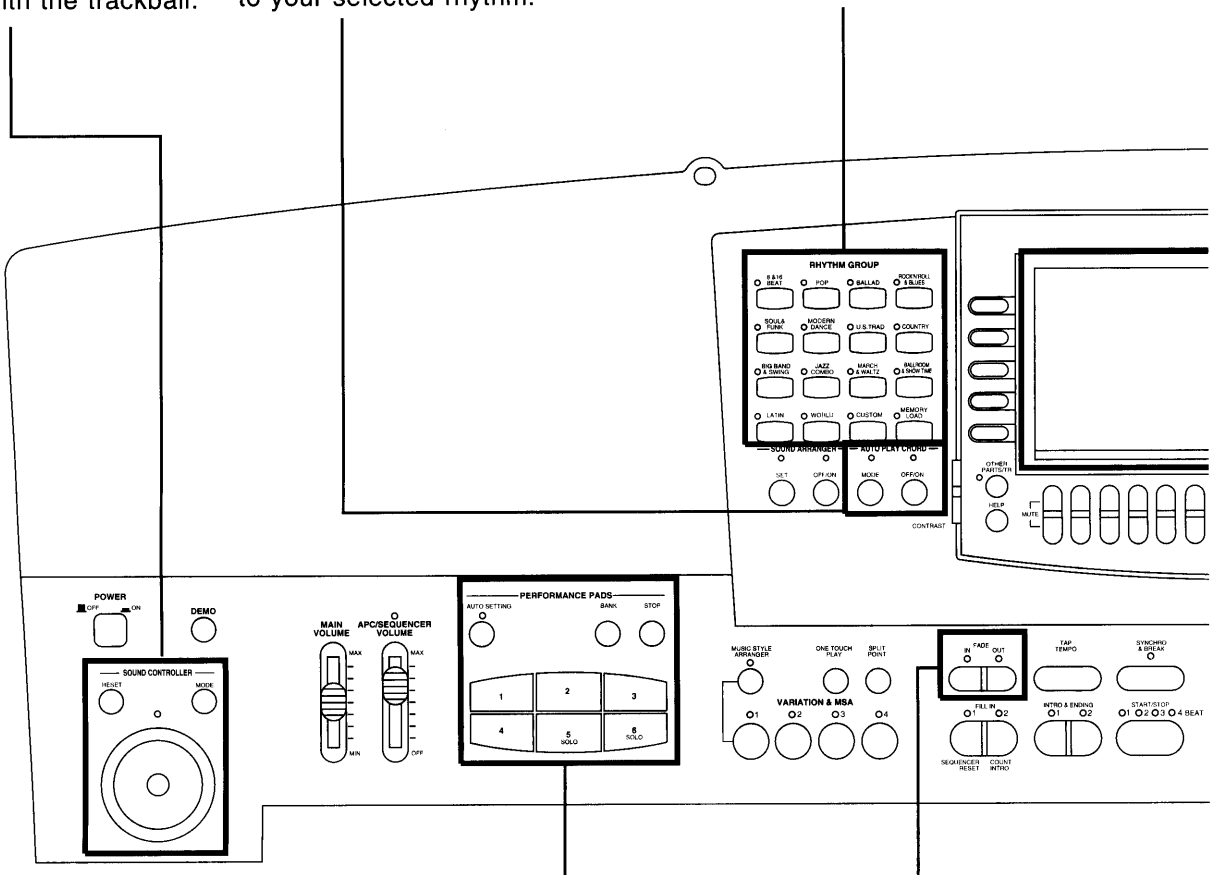
# 3 OWNERS MANUAL

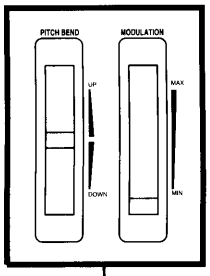
# *Controls and functions*

**SOUND CONTROLLER**
Modify the sound in realtime with the trackball.

**AUTO PLAY CHORD**
Add an automatic accompaniment to your selected rhythm.

**RHYTHM GROUP**
Various rhythm patterns are available for each rhythm group.




**PERFORMANCE PADS**
Add various phrases to your performance with the pad buttons.

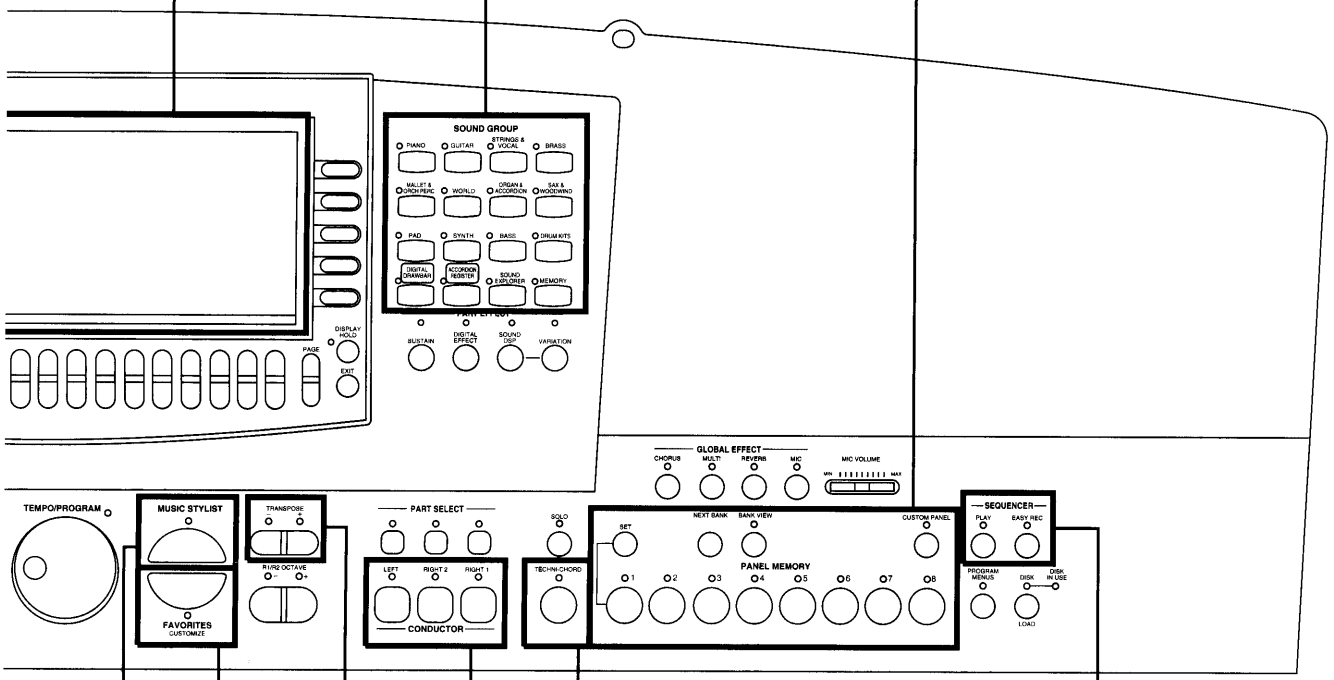
**FADE IN/OUT**
Begin your song with a slowly increasing volume, or end it by having the sound slowly fade away.

**PITCH BEND/MODULATION**
The **PITCH BEND** wheel allows a sliding change in the pitch. The **MODULATION** wheel is used to add vibrato to the sound.

**DISPLAY**
Displays performance information, function settings and other messages.
- Adjust the readability with the **CONTRAST** control at the lower left side of the display.

**SOUND GROUP**
Various sounds are available for each sound group.

**PANEL MEMORY**
Store the panel settings, then recall them instantaneously just by pressin a button or two.




**TRANSPOSE**
Raise or lower the key of the entire keyboard.

**CONDUCTOR**
Assign a different sound to each part, then assign the desired parts to sections of the keyboard.

**SEQUENCER**
Record and play back y performance.

**MUSIC STYLIST**
You can choose to have all the settings of this instrument automatically set.

**FAVORITES**
You can record four different special displays of your favorite sounds and rhythms, functions, etc.

**TECHNI-CHORD**
Block chords are automatically added to the melody.

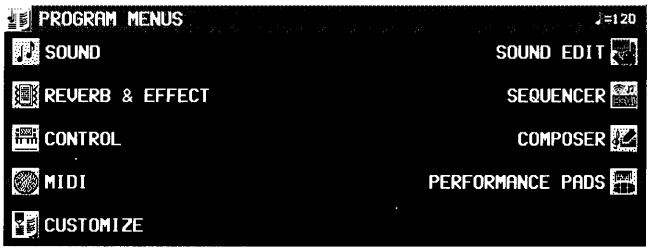
# Initialize

This Keyboard has many settable functions and storable memories. However, you can return the settings and memory to the factory-preset status.

## INITIAL

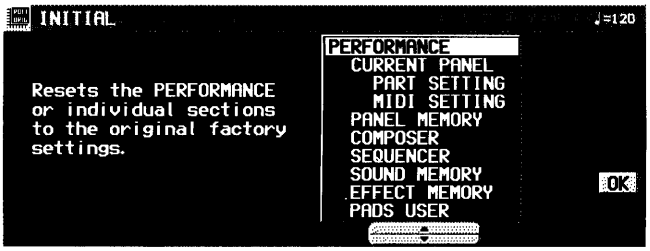
1. Press the **PROGRAM MENUS** button to turn it on.


- The display changes to the following.




2. Select CONTROL.
- The display looks similar to the following.


3. Select INITIAL.
- This display changes to the following.




4. Use the ▲ and ▼ buttons to select the desired type of initialization.
- PERFORMANCE includes all the items which are listed below it.

5. Press the OK button.
- The display changes to the confirmation display. Press the YES button if you wish to execute the initialization. Press the NO button if you wish to cancel the procedure.


- Initialization begins. When initialization is completed, COMPLETED! is shown on the display and the Keyboard returns to the normal performance mode.
- The USER MIDI, FAVORITES, HOME PAGE settings and CUSTOM styles are not initialized by this procedure.

You can also reset all the PERFORMANCE items with the following procedure:
Turn off the power to this instrument once. Then, while pressing the three lower left buttons in the **RHYTHM GROUP** section (**LATIN**, **WORLD** and **CUSTOM**) at the same time, turn the power on again.

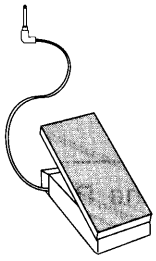
# About the backup memory and performance data

When the power to this instrument is turned off, the various settings and memory contents of instrument are maintained in the backup memory as follows:

| | | |
|---|---|---|
| PERFORM-ANCE | CURRENT PANEL settings | about one week |
| | PANEL MEMORY | |
| | SEQUENCER | about 80 minutes |
| | COMPOSER (MEMORY contents) | |
| | SOUND MEMORY | about one week |
| | PERFORMANCE PADS (USER memories) | |
| | EFFECT MEMORY | |
| BACKUP | USER MIDI (USER memories for the MIDI PRESETS) | indefinitely |
| | FAVORITES | |
| | HOME PAGE | |
| | ALL CUSTOM STYLE | |

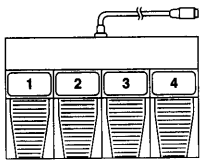
- If you wish to retain the settings and stored memory contents for recall at a later time, store the des data on a floppy disk.
- The backup memory does not function for the stored contents until the power has been on for at 10 minutes.
- Data from previous Technics models may be limited to PERFORMANCE data.

# Separately sold options



**SZ-E2**
Expression Pedal

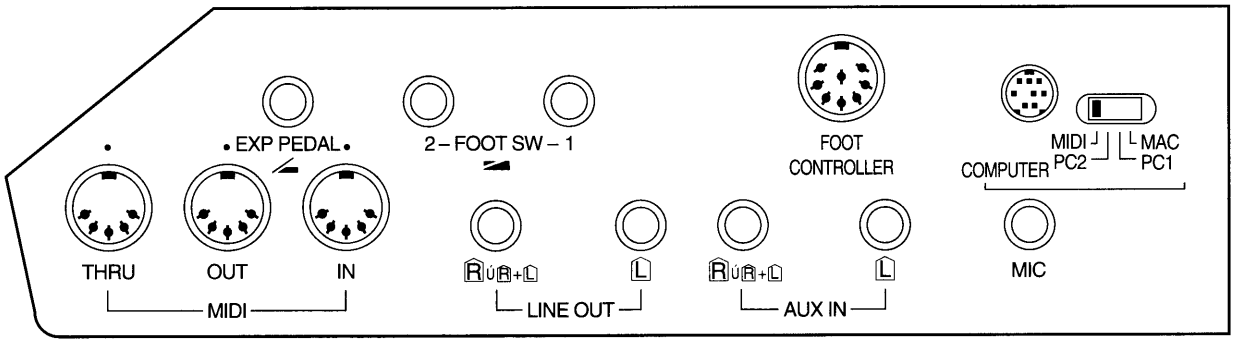
**SZ-P1**
Foot Switch




**SZ-FC2**
Foot Controller

- Be sure to turn off the power before connecting the Foot Controller.

# Connections




**EXP PEDAL**
The optional SZ-E2 Expression Pedal (sold separately) can be connected to this terminal to control the volume.

**FOOT SW 1, 2**
An optional SZ-P1 Foot Switch (sold separately) can be connected to each terminal to control various functions.

**AUX IN** (input level 0.5 Vrms, 6 kΩ)
Other instruments such as a sound generator can be connected to this terminal, and the sound will be output from the Keyboard's speakers. To receive monaural sound, connect the other instrument to the **R/R+L** terminal. (Do not connect the **L** terminal.)

**LINE OUT** (output level 1.5 Vrms, 600 Ω)
By connecting an external high-power amplifier, the sound can be reproduced at a high volume. To output monaural sound, connect the external equipment to the **R/R+L** terminal. (Do not connect the **L** terminal.)

**MIDI**
These terminals are for connection to another MIDI instrument.

**FOOT CONTROLLER**
An optional SZ-FC2 Foot Controller (sold separately) can be connected to this terminal to control various functions.

**MIC**
A microphone can be connected to this terminal for voice output through the speakers.
- The effects applied to the MIC INPUT and the microphone volume can be set.

**COMPUTER**
By connecting this terminal to the serial port of a computer, performance data can be exchanged. Use the switch to select the type of computer.
- Be sure that the power to this instrument is turned off when connecting to a computer or when changing the switch setting.

> **Caution:**
> Failure to turn off the power before changing the switch setting may result in malfunction.

- When no computer is connected, or when a MIDI interface is used, the switch should be set to **MIDI**.

**Connection to a Macintosh series computer**
Use an ACCESSORY CABLE (SZ-JJAP1: sold separately) to connect the **COMPUTER** terminal of this instrument to the modem port or printer port of a Macintosh Series computer. Set the switch to **MAC**.
- Set the MIDI interface clock of the Macintosh software to 1 MHz.
- Do not remove the core at either end of the cable.

**Connection to a PC**
Use an ACCESSORY CABLE (SZ-JJAT1: sold separately) to connect the **COMPUTER** terminal of this instrument to the RS232C terminal of a PC. Set the switch to **PC2**.
- The MIDI driver included with the cable should be installed in the computer. (Refer to the manual accompanying the cable.)
- Do not remove the core at either end of the cable.

* All product and company names are trademarks or registered trademarks of thir respective owners.

# Symptoms which appear to be signs of trouble

The following changes in performance may occur in the Technics Keyboard but do not indicate trouble.

| | Phenomenon | Remedy |
|---|---|---|
| Sounds and effects | The buttons, keys, etc. malfunction. | • Turn off the **POWER** button once, then turn it on again. If this procedure is not successful, turn off the **POWER** button once. Then, while pressing the three lower left buttons in the **RHYTHM GROUP** section (**LATIN**, **WORLD** and **CUSTOM**) at the same time, turn the **POWER** button on again. (Note that, in this case, all programmable settings, functions and memories return to their factory-preset status.) |
| | No sound is produced when the keys are pressed. | • The **MAIN VOLUME** is at the minimum setting. Adjust the volume with the **MAIN VOLUME** control.<br>• The volumes for the selected parts are set to the minimum levels. Use the balance buttons to set the volumes of the relevant parts to appropriate levels.<br>• The part is muted.<br>• The LOCAL CONTROL for a part performed on the keyboard is set to OFF. Set the LOCAL CONTROL to ON. |
| | Only percussive instrument sounds are produced when the keyboard is played. | • In the **SOUND GROUP** section, the **DRUM KITS** button is on. |
| | The volume is very low when the keyboard is played. | • The volume setting in the **SEQUENCER** contents is very low. Follow the INITIAL procedure to reset the settings. |
| | The sound you hear is different from the sound you selected. | • This sometimes occurs when you play back **SEQUENCER** or **COMPOSER** data which was created on a different model, or when MIDI data is received from a connected instrument. Select the desired sounds again. |
| Rhythm | The rhythm does not start. | • The **DRUMS** volume is set to the minimum level. Use the balance buttons to set the **DRUMS** volume to an appropriate level.<br>• A **SEQUENCER PLAY** button is on. When you are not playing back the **SEQUENCER** performance, turn off the **SEQUENCER PLAY** button.<br>• CLOCK is set to MIDI. Set CLOCK to INTERNAL. |
| AUTO PLAY CHORD | No sound is produced for the automatic accompaniment, or only the sounds of some parts are produced. | • An **ACCOMP** part does not sound if its corresponding volume is set to the minimum level. Use the respective balance buttons to set the **ACCOMP 1-5** volumes to appropriate levels. |
| SEQUENCER | Storage is not possible. | • The remaining memory capacity of the **SEQUENCER** is 0. Follow the SONG CLEAR or TRACK CLEAR procedure to erase the memory. |
| | The playback measure indication is different from when the performance was recorded. | • The number of measures corresponds to the time signature of the rhythm selected at the start of recording. To change the rhythm in the middle of the song, record the rhythm change in the RHYTHM part. |

| | Phenomenon | Remedy |
|---|---|---|
| COMPOSER | Storage is not possible. | • The remaining memory capacity of the **COMPOSER** is 0. |
| | Setting the time signature and number of measures is not possible. | • The time signature and number of measures cannot be changed for a pattern which is currently recorded in the **COMPOSER**. If you wish to change the time signature and/or measure data, first follow the procedure to clear the memory. |
| | The playback timing of the rhythm pattern is different from the timing with which it was recorded. | • The QUANTIZE function was on when the pattern was recorded and the timing was automatically corrected. Set the quantize level to a smaller note unit or to OFF when recording. |
| Disk Drive | The Disk Drive produces a noise during recording or playback. | • This occurs when the Disk Drive is reading a disk. It does not indicate a problem. |
| | When the procedure to load from a disk is performed, the contents of the keyboard memory are erased. | • When performing the load operation from a disk, the keyboard memory changes to that of the data loaded from the disk. If you wish to preserve a song which is stored in the keyboard memory, save it on a disk before performing the load procedure. |
| MIDI | Data cannot be exchanged through MIDI terminals. | • The switch for the **COMPUTER** terminal is not set to **MIDI**. Turn off the power to this instrument and set the switch to **MIDI**.<br>• Match the channels on the transmitting side and the receiving side. |
| | The sound quavers or is distorted. | • When the **COMPUTER** terminal or both the **MIDI IN** and **OUT** terminals are connected to a computer, depending on the computer software the received data may be sent back to the instrument just as it is. Because of this the sound generated from the keys and the sound generated from the returned data are both produced, causing undesirable effects, such as the sounds canceling each other out, for example. In this case, either change the software settings to prevent received data from being returned, or set the MIDI LOCAL CONTROL to off. |
| Other | Noise from a radio or TV can be heard. | • This sometimes occurs when electrical equipment such as a radio or TV is used near the instrument. Try moving such electrical equipment further away from the instrument.<br>• The sound may be coming from a nearby broadcast station or amateur radio station. If the sound is bothersome, consult your dealer or service center. |
| | The cabinet becomes warm during use. | • This instrument has a built-in power source that heats the cabinet to some degree. This is not an indication of trouble. |

# Error messages

| No. | Contents |
|---|---|
| 00 | The data on the disk that you are using is for a different product. |
| 01 | An error has occurred while the disk was loading.<br>Please try again! |
| 02 | There is no disk in the Disk Drive. |
| 03 | The file that you tried to load is empty. |
| 05 | An error has occurred while the disk was saving.<br>Please try again! |
| 06 | The disk that you are using is write protected.<br>Please remove the write protection and try again. |
| 07 | The disk that you are using is full. Please use another disk. |
| 08 | An error has occurred while the disk was formatting. The disk that you are using may be faulty.<br>Please try formatting another disk. |
| 10 | The data is already copy protected. |
| 15 | The song you are trying to save is empty. |
| 16 | This STANDARD MIDI FILE is incompatible with this instrument and cannot be loaded. |
| 17 | This is not a STANDARD MIDI FILE. |
| 18 | The timebase (PPQ resolution) that you tried to load is not 24/48/96/192/288/384 PPQ. |
| 20 | A problem has occurred with your **SEQUENCER** Data.<br>This might be due to a damaged or faulty disk. |
| 21 | Memory full |
| 22 | It is necessary to press REC STOP to complete this procedure. |
| 23 | It is impossible to change the time signature because it has already been set in the existing tracks. |
| 24 | A rhythm track already exists. It is impossible to assign two tracks to rhythm. |
| 25 | It is only possible to change the velocity on a melody track. |

| No. | Contents |
|---|---|
| 26 | It is only possible to merge melody tracks.<br>Tracks such as rhythm, chord and control cannot be merged. |
| 27 | It is only possible to copy melody tracks. Tracks such as rhythm, chord and control cannot be copied. |
| 28 | This song is too long to be saved as a MIDI file. |
| 29 | The MIDI file that you have tried to load exceeds the memory capacity of this instrument and cannot be played. The **SEQUENCER** memory has been cleared. |
| 30 | It is not possible to change the time signature or measure length of a **COMPOSER** pattern after it has been recorded. If you want to proceed, you must first clear the entire **COMPOSER** pattern. |
| 31 | The time signature of the pattern from which you are copying is different from the **COMPOSER** memory that you are using.<br>Either: Change the time signature of the **COMPOSER** memory<br>or: Copy from a pattern that has the same time signature |
| 32 | Memory full |
| 33 | Select a Track before setting parameters for AUTO PUNCH RECORD. |
| 43 | The file that you are trying to load was saved on a previous KN keyboard. It is only possible to load using the PERFORMANCE option. |
| 44 | It is impossible to edit a Drum Kit. Please select a different sound from any group except Keyboard Percussion. |
| 46 | It is only possible to insert MELODY Tracks. Tracks such as RHYTHM, CHORD and CONTROL cannot be inserted. |
| 47 | This procedure is not possible with a composer pattern or the metronome. Please select a preset rhythm pattern. |
| 54 | It is not possible to record using preset banks, compile banks, or control banks. Please select one of the user banks. |

| No. | Contents |
|---|---|
| 55 | Special tracks such as CHORD (APC), RHY and CTL exist in the song from which you are copying and are incompatible with the destination song because it is in the GM mode. |
| 56 | AUTO PUNCH recording has been unsuccessful because SEQUENCER operation was interrupted before the PUNCH OUT measure was reached. |
| 58 | The song that you have tried to load exceeds this instrument's available memory and cannot be loaded. The selected song memory has been cleared. |
| 62 | The computer connection is not active because the computer port switch is set to MIDI. Please turn the power off, set the switch to the desired setting and turn the power back on. |
| 63 | This Bitmap is in the wrong format for the KN and cannot be loaded. See the Owners Manual for more details. |
| 64 | Please select the Panel Memory that you want to name. |
| 65 | It is not possible to use the CHORD FINDER in this mode. Please select CHORD FINDER from HOME page or CHORD STEP RECORD page. |
| 66 | SOLO pads are special pads which include Chord information. Pleases use SOLO pads when the rhythm and accompaniment is playing. |
| 67 | There are no APC or CHORD tracks. Select and APC track or CHORD track, and try again. |
| 68 | It is not possible to record directly into the SOLO pads. Record on the SEQUENCER and Copy the melody and chord information into a SOLO pad. |
| 69 | It is not possible to delete all measures. |
| 70 | It is not possible to insert over 16 measures in a PATTERN. |
| 71 | It is not possible to set the start measure to the measures you set to copy. |

# MIDI IMPLEMENTATION CHART

**Keyboard [ SX-KN6000 ]**

| Function | | Transmitted | Recognized | Remarks |
|---|---|---|---|---|
| **Basic Channel** | Default | 1-16 | 1-16 | Assigned to the part. |
| | Changed | 1-16 | 1-16 | |
| **Mode** | Default | 3 | Mode 3 | OMNI OFF, POLY MODE |
| | Messages | Mode 3, 4 (M=1) | Mode 3, 4 (M=1) | * M=1 only |
| | Altered | — | — | |
| **Note Number** | | 0-127 | 0-127 | |
| | True voice | — | 0-127 | |
| **Velocity** | Note ON | O | O | |
| | Note OFF | × | × | |
| **After Touch** | Key's | × | × | |
| | Ch's | O × * | O × * | |
| **Pitch Bend** | | O × * | O × * | |
| **Control Change** | 0,32 | O × * | O × * | Bank Select MSB, LSB |
| | 1 | O × * | O × * | Modulation |
| | 5 | O | O | Portamento time |
| | 6,38 | O × * | O × * | Data entry MSB, LSB |
| | 7 | O × * | O × * | Volume |
| | 10 | O × * | O × * | Panpot |
| | 11 | O × * | O × * | Expression |
| | 12,13 | O × * | O × * | Sound DSP |
| | 64 | O × * | O × * | Sustain |
| | 65 | O | O | Portamento on / off |
| | 66 | O | O | Sostenuto |
| | 67 | O | O | Soft Pedal |
| | 71~78 | O × * | O × * | Sound controllers |
| | 80~83 | O | O | Part Equalizer |
| | 91~95 | O × * | O × * | Effect 1~5 Depth |
| | 98,99 | O × * | O × * | NRPN |
| | 100,101 | O × * | O × * | RPN |
| **Prog Change** | | O × * | O × * | |
| | True # | — | 0-127 | |
| **System exclusive** | | O × * | O × * | |
| **System common** | Song Pos | O × * | O × * | |
| | Song Sel | O × * | O × * | |
| | Tune | × | × | |
| **System Real Time** | Clock | O × * | O × * | |
| | Commands | O × * | O × * | Start / Stop, continue |
| **Aux Messages** | Local ON / OFF | × | × | |
| | All notes OFF | × | O | |
| | Active Sense | O | O | |
| | Reset | × | × | |
| **Notes** | | O × * ····· Whether or not the data for each of these items is transmitted / received can be set. | | |

Mode 1:OMNI ON, POLYMode 2:OMNI ON, MONO
Mode 3:OMNI OFF, POLYMode 4:OMNI OFF, MONO

O: Yes
×: No

# 4 KEYBOARD RANGES

This keyboard features Touch Response, by which you control the volume by playing the keys harder or softer.

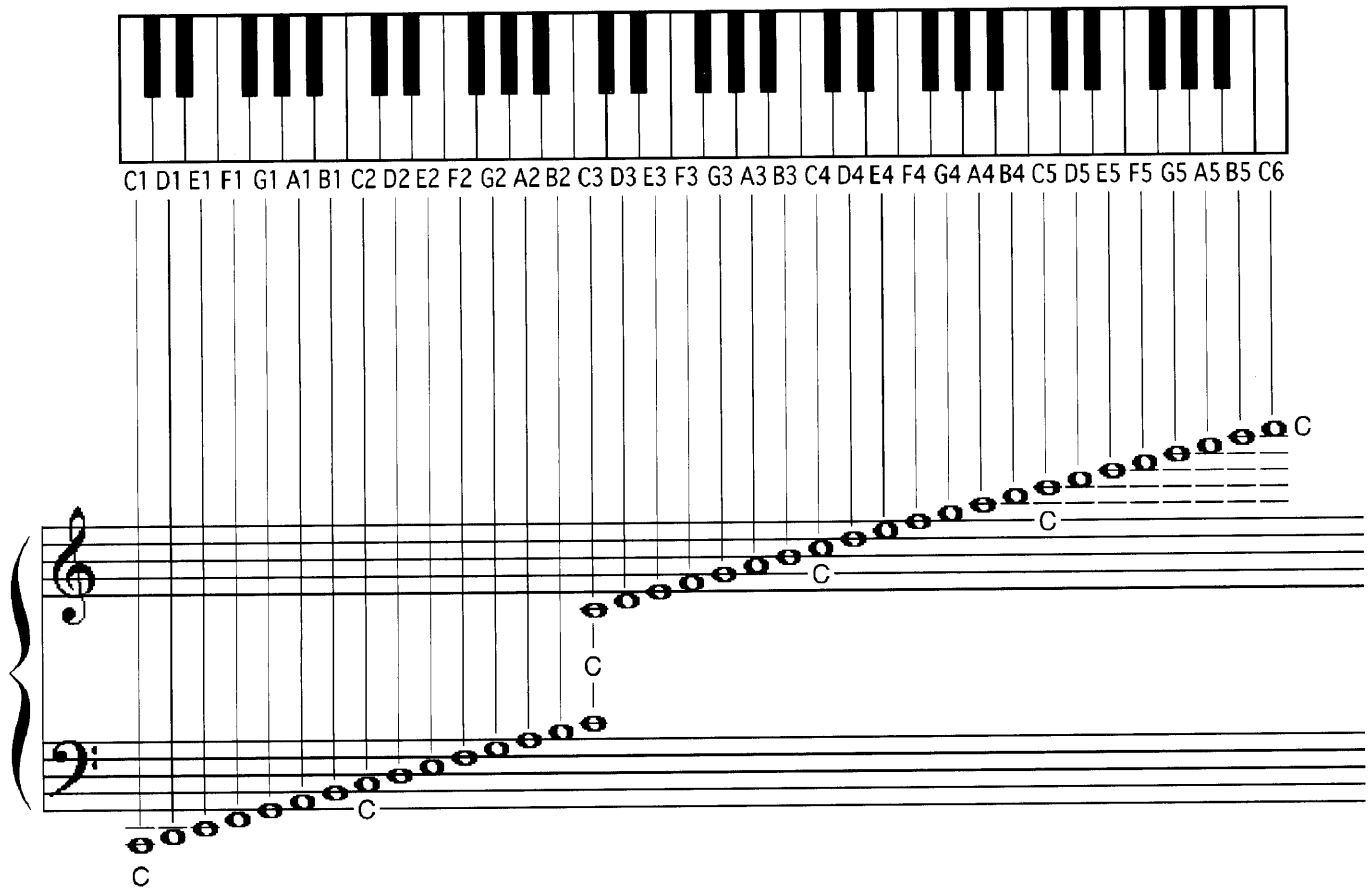



Figure-2

# 5 PARTS LOCATION

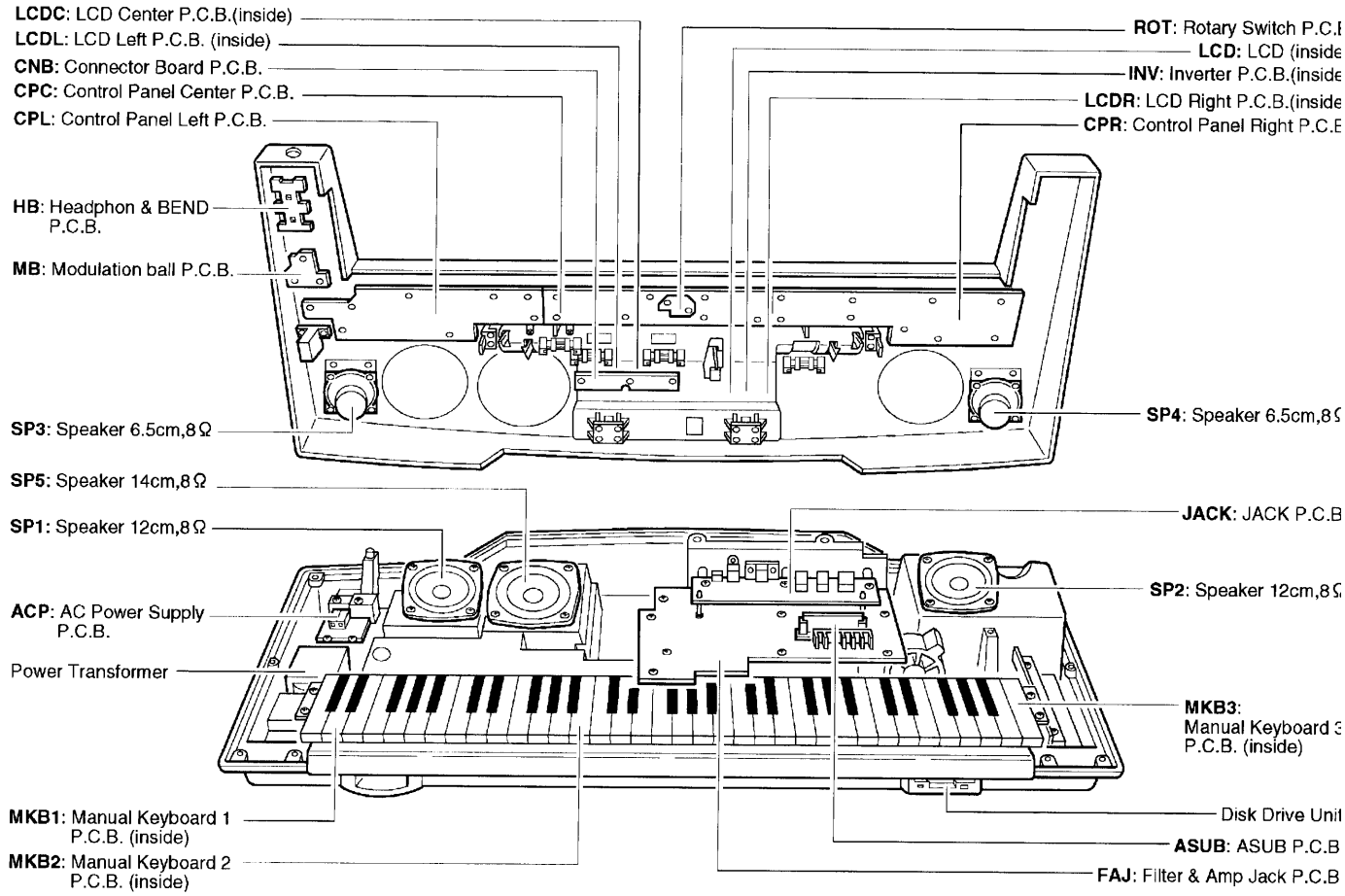



Figure-3

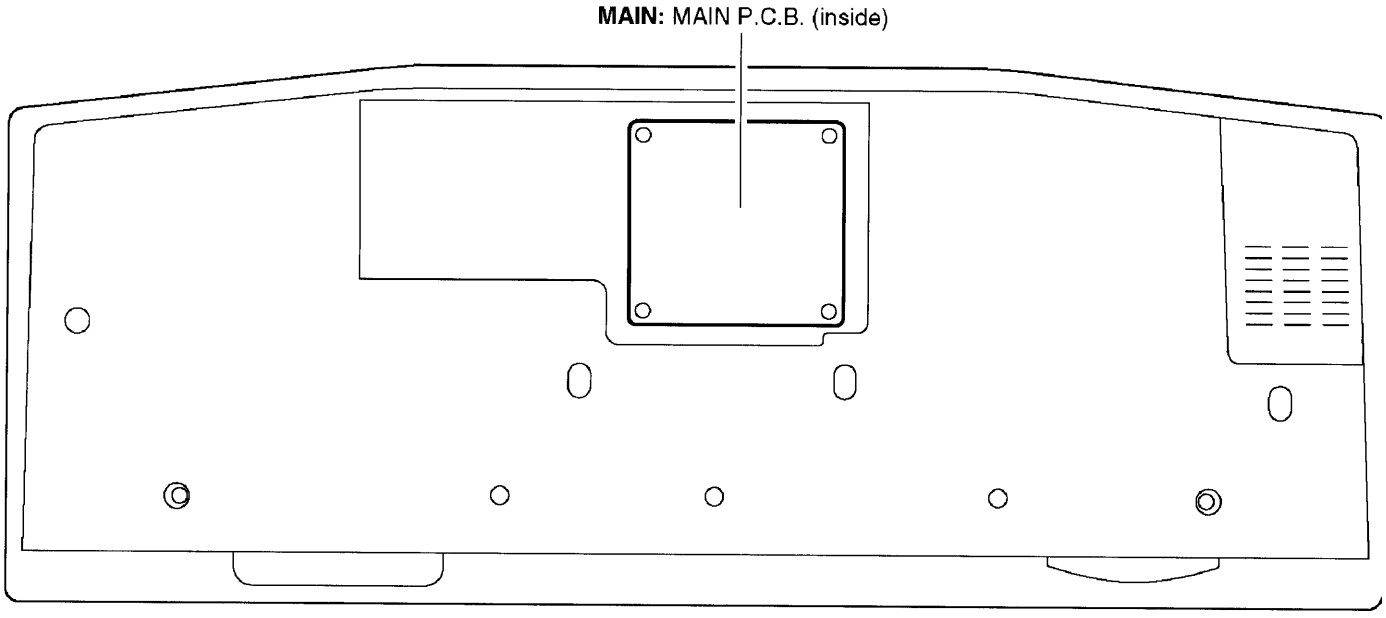



Figure-4

# 6 DISASSEMBLY INSTRUCTIONS

## 6.1. Opening the top cabinet

1. Turn the keyboard cabinet upside down, and remove the bottom screws (A 14 pcs.) as shown in Figure-5.
2. Place the keyboard bottomside down, and open the top cabinet .

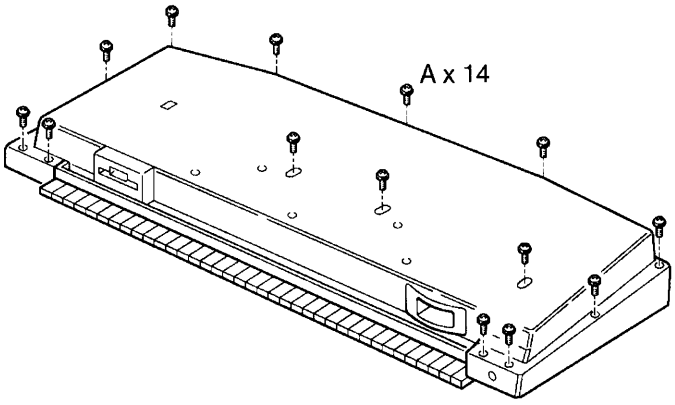



Figure-5

- Pull the Display Angle Lever upward and swivel the display as shown in Figure-6. Then you can keep the top cabinet upright using the display as a stand.

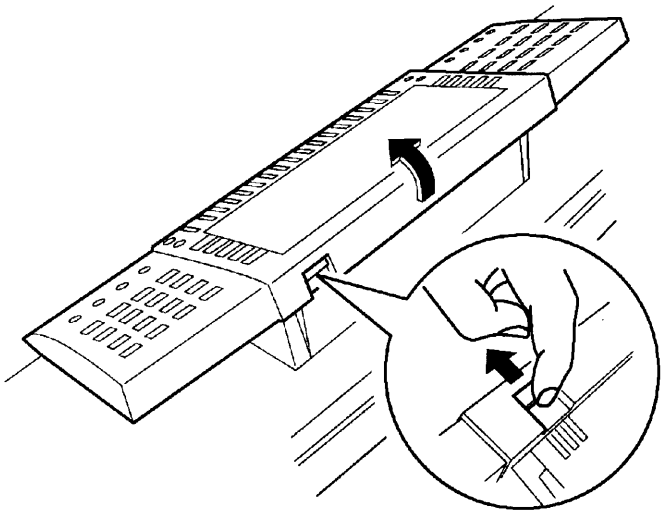


Figure-6

## 6.2. Removing the HB, MB, CPL, ROT, CPC, CPR, CNB, ACP, FAJ, JACK, ASUB printed circuit boards

- Open the top cabinet (see step "Opening the top cabinet").
- Pull out the connectors on the printed circuit boards.

**HB P.C.B.**

- Remove the HB P.C.B. mounting screws (A 2 pcs.) as shown in Figure-7.

**MB P.C.B.**

- Remove the MB P.C.B. mounting screws (B 3 pcs.) as shown in Figure-7.

**CPL P.C.B.**

1. Pull off the MAIN VOLUME knob and APC/SEQUENCER VOLUME knob as shown in Figure-7.
2. Remove the CPL P.C.B. mounting screws (C 9 pcs.).

**ROT P.C.B. and CPC P.C.B.**

1. Pull off the TEMPO/PROGRAM dial as shown in Figure-7.
2. Remove the ROT P.C.B. mounting screws (E 2 pcs.).
3. Remove the CPC P.C.B. mounting screws (D 7 pcs.).

**CPR P.C.B.**

- Remove the CPR. P.C.B. mounting screws (F 9 pcs.) as shown in Figure-7.

**CNB P.C.B.**

- Remove the CNB P.C.B. mounting screws (G 3 pcs.) as shown in Figure-7.

**ACP P.C.B.**

- Remove the ACP P.C.B. mounting screws (H 4 pcs.) as shown in Figure-7.

**FAJ P.C.B.**

- Remove the FAJ P.C.B. mounting screws (L 8 pcs.) as shown in Figure-7.

**JACK P.C.B.**

- Remove the JACK P.C.B. mounting screws (I 3 pcs., J 2 pcs. and K 3 pcs.) as shown in Figure-7.

**ASUB P.C.B.**

- Release the claws and pull off the ASUB P.C.B. as shown in Figure-7.

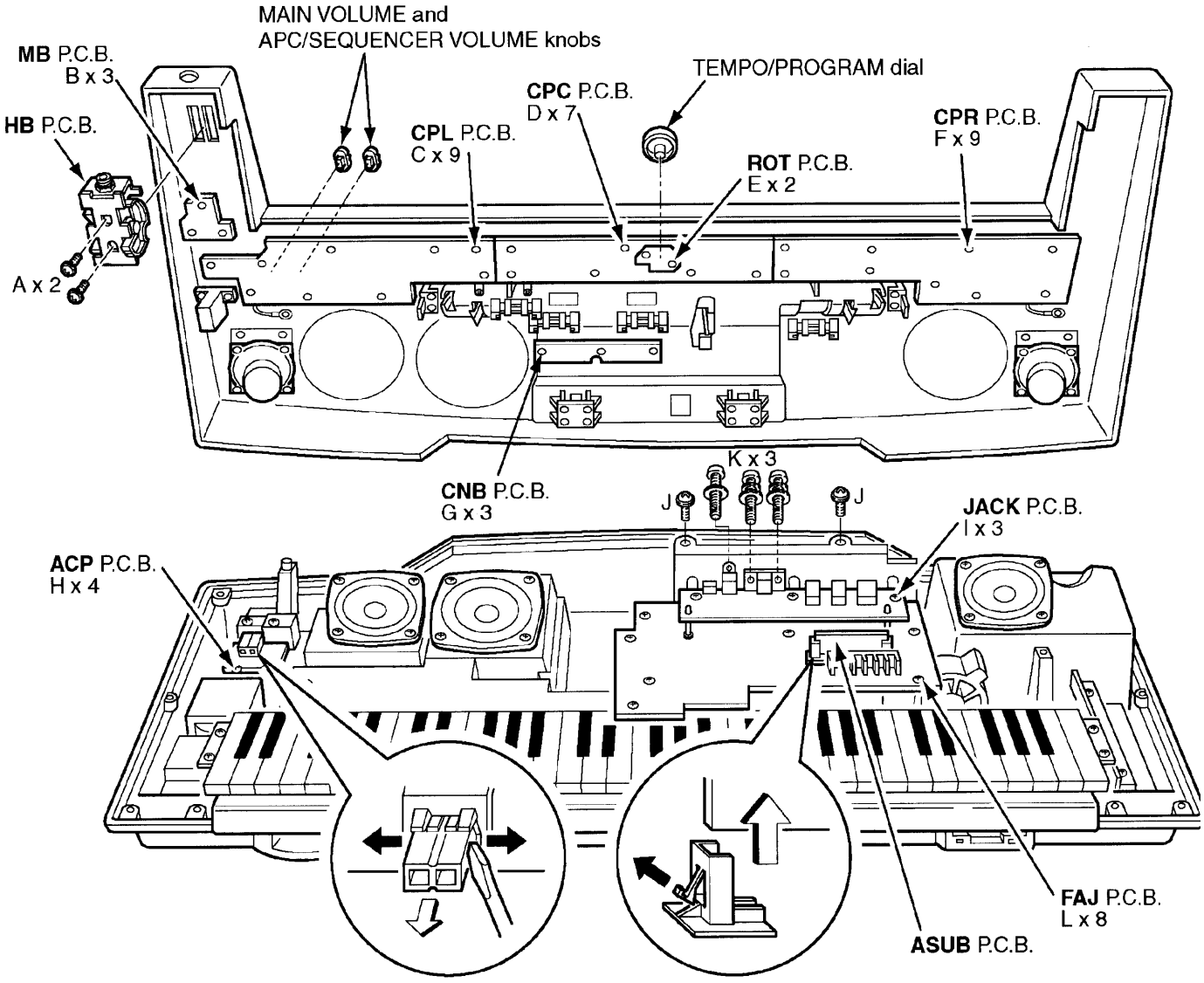



Figure-7

## 6.3. Removing the MAIN printed circuit board

**MAIN P.C.B.**

1. Remove the bottom board mounting screws (A 6 pcs.) as shown in Figure-8.
2. Remove the MAIN P.C.B. mounting screws (B 4 pcs.).

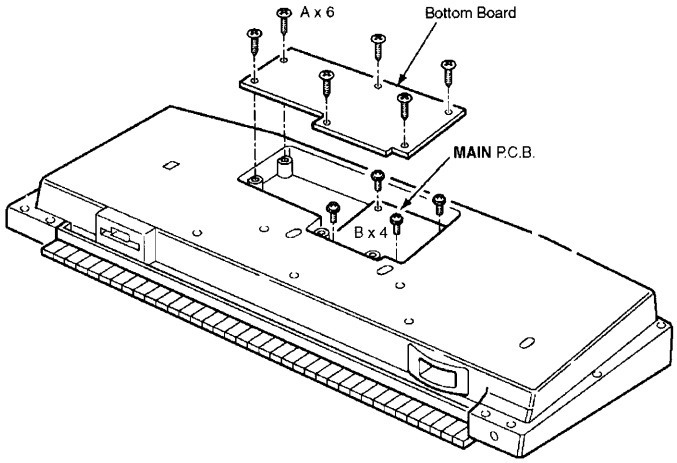



Figure-8

## 6.4. Removing the DISPLAY

- Open the top cabinet (see step "Opening the top cabinet")
- Pull out the connectors on the DISPLAY panel.

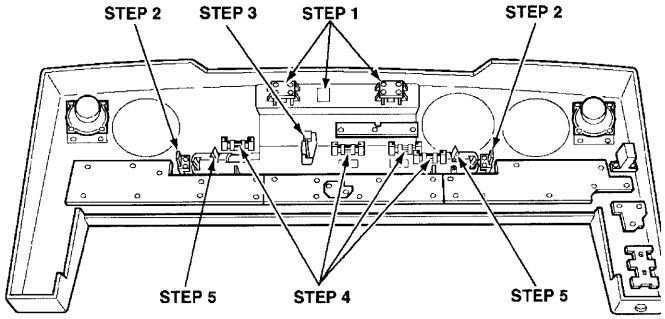



Figure-9

**STEP 1: Removing the gear rails**

1. Remove the gear rail mounting screws (A 4 pcs.) a shown in Figure-10.
2. While pulling the rod to release it from the gear rail, pu the gear rail.

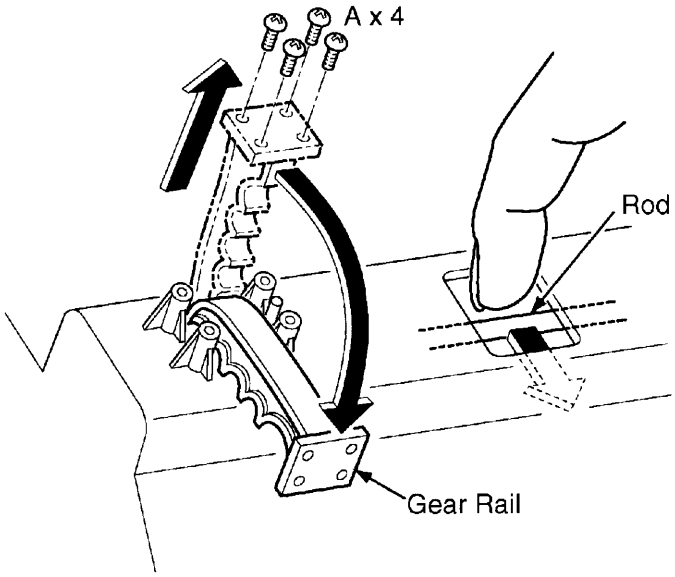



Figure-10

**STEP 2: Removing the fixing axes**

- Remove the fixing axis mounting screws (B 2 pcs.) as shown in Figure-11.

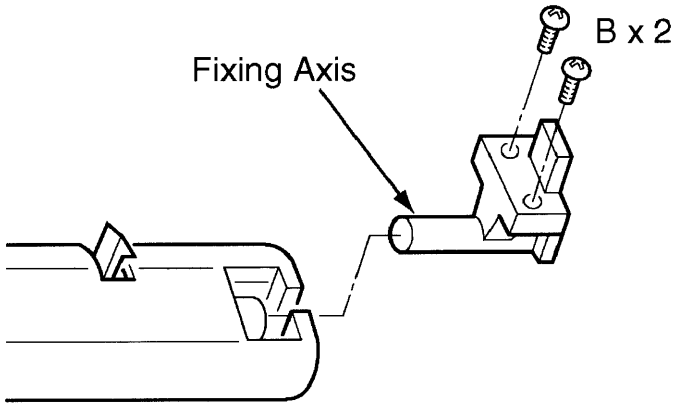



Figure-11

**STEP 3: Releasing the spring**

- Release the spring as shown in Figure-12.

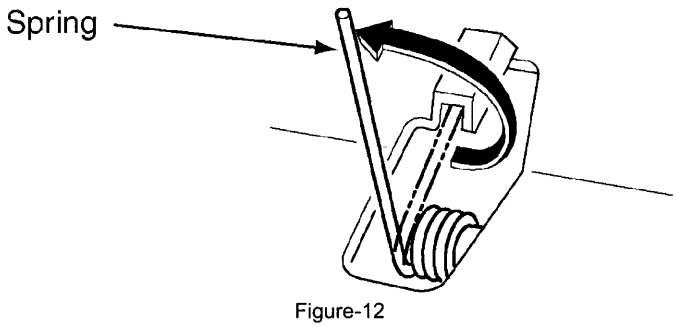



Figure-12

**STEP 4: Removing the cable clamper**

- Release the claws and pull off the cable calmper as shown in Figure-13.

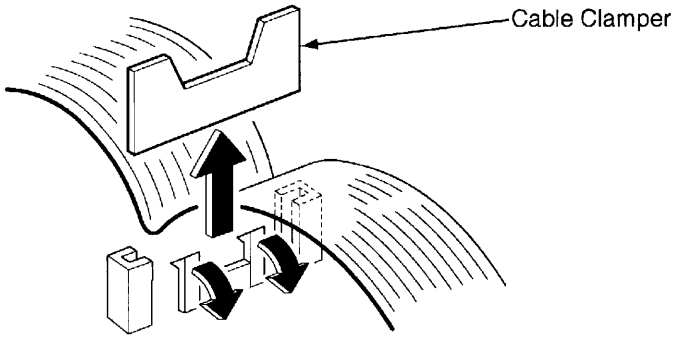



Figure-13

**STEP 5: Releasing the claws**

- Release the claw as shown in Figure-14.

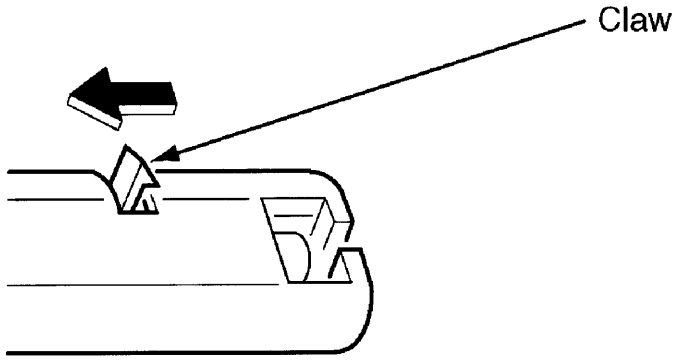



Figure-14

- The DISPAY can be removed from the top cabinet.

## 6.5. Removing the DISPLAY panel

1. Remove the DISPLAY (see step "Removing the DISPLAY").
2. Remove the DISPLAY panel mounting screws (A 6 pcs.) as shown in Figure-15.

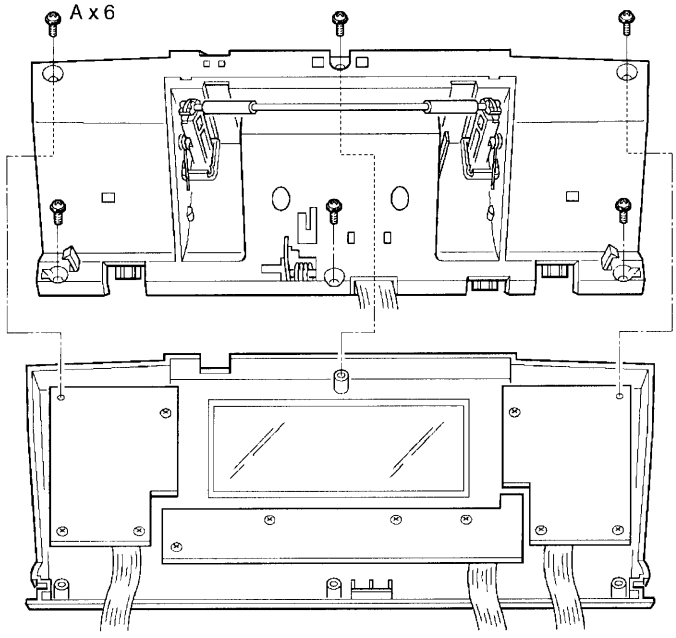



Figure-15

## 6.6. Removing the LCDL, LCDC and LCDR printed circuit boards

- Remove the DISPLAY panel (see step "Removing the

DISPLAY").

**LCDL P.C.B.**

- Remove the LCDL P.C.B. mounting screws (A 3 pcs.) as shown in Figure-16.

**LCDC P.C.B.**

- Remove the LCDC P.C.B. mounting screws (B 4 pcs.) as shown in Figure-16.

**LCDR P.C.B.**

- Remove the LCDR P.C.B. mounting screws (C 3 pcs.) as shown in Figure-16.

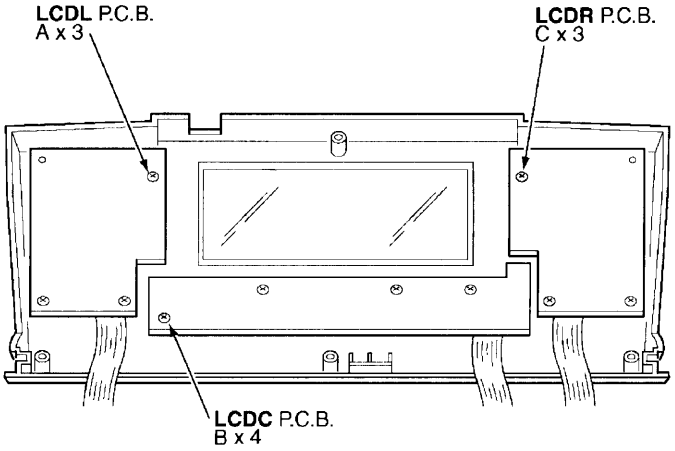



Figure-16

## 6.7. Removing the LCD and the INV P.C.B.

- Remove the DISPLAY panel (see step "Removing the DISPLAY").

**LCD**

- Remove the LCD mounting screws (A 4 pcs.) as shown in Figure-17.

**INV P.C.B.**

1. Remove the bracket mounting screw (B 1 pc.) as shown in Figure-17.
2. Pull off the INV P.C.B..

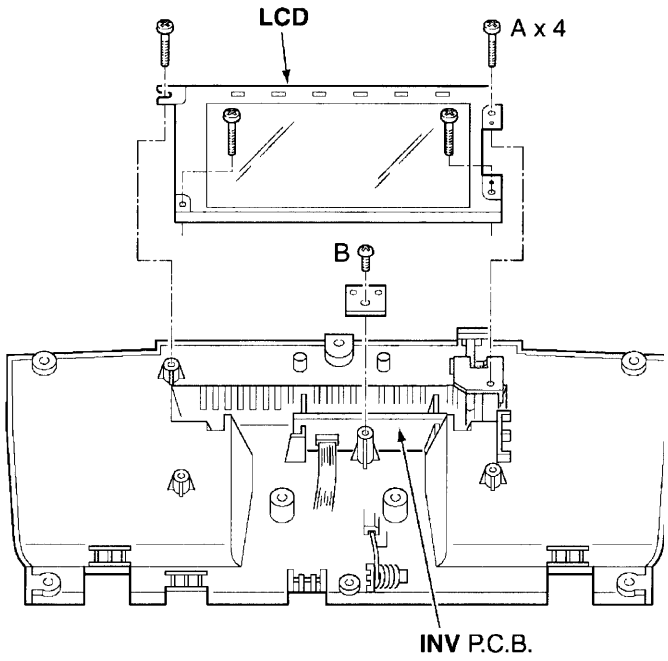



Figure-17

## 6.8. Removing the keyboard unit

1. Turn the keyboard cabinet upside down, and remove the bottom screws (A 15 pcs.) as shown in Figure-5.
2. Remove the keyboard unit mounting screws (B 5 pcs.) as shown in Figure-18.
3. Place the keyboard cabinet bottomside down, and open the top cabinet.
4. Remove the keyboard unit holding screws (C 3 pcs.).

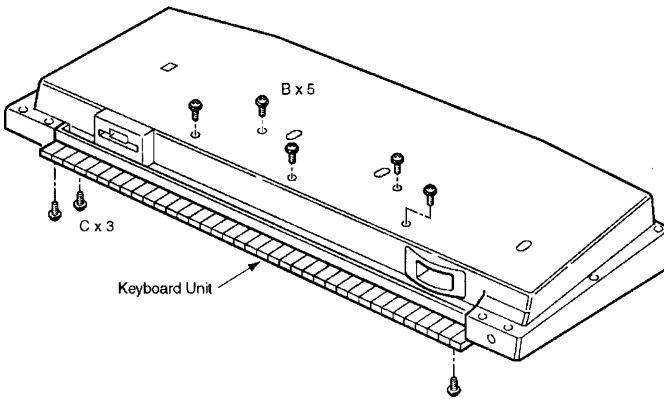



Figure-18

- As shown in Figure-19, the keyboard unit can be anchored in the metal projection.

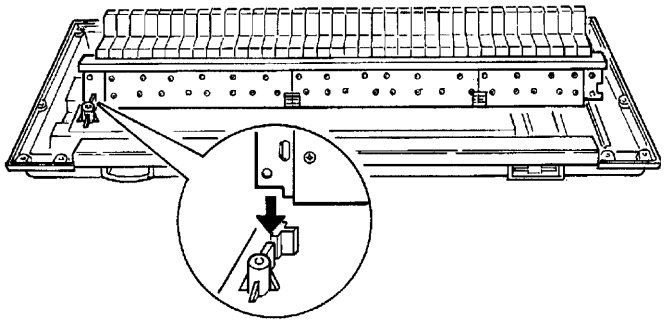


Figure-19

## 6.9. Removing the Disk Drive Unit

1. Remove the keyboard unit (see "Removing the keyboard unit").
2. Remove the Disk Drive unit mounting screws (A 4 pcs. ) as shown in Figure-20.

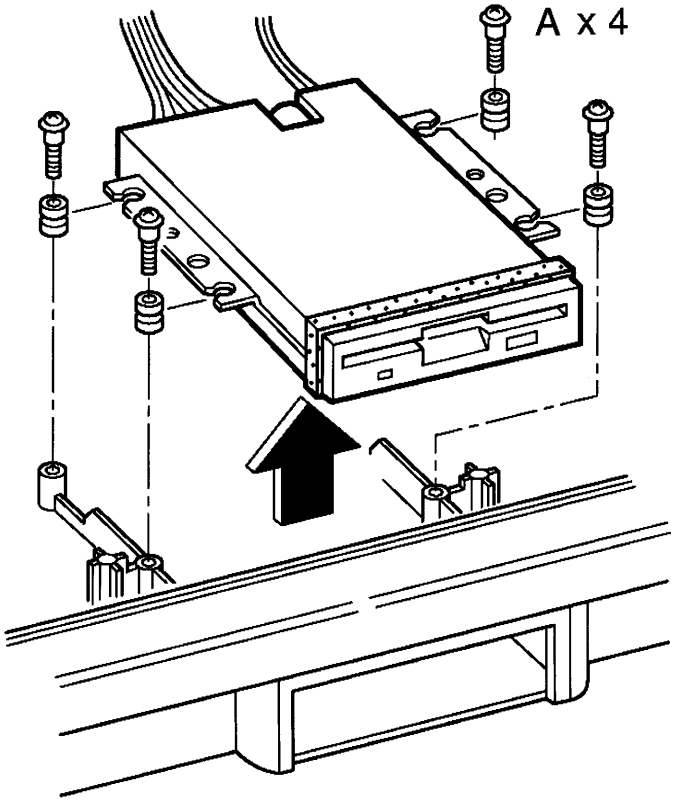



Figure-20

- Otherwise, the Disk Drive unit can be removed by removing the Disk Drive unit mountng screws (B 4 pcs.) as shown in Figure-21.

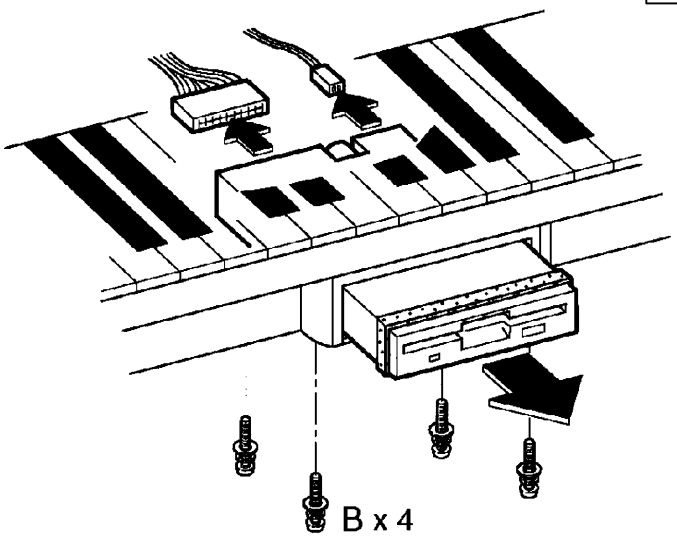



Figure-21

## 6.10. Removing the keys

1. Remove the keyboard unit (see "Removing the keyboard unit").
2. Press downward on the rear of the key as shown in Figure-22.
3. While pressing downward on the rear of the key, push the key forward and release it from the chassis.
4. Lift the key and remove it from the chassis.

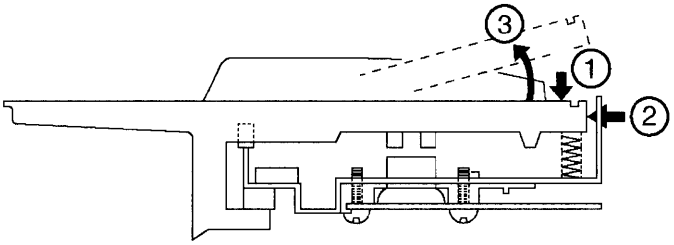



Figure-22

**NOTE:**

To remove a black key, the white key to either side of it should be removed first.

# 7 SERVICE DIAGNOSTIC FUNCTION

The service diagnostic function makes it possible to determine whether the various test modes pass or fail. The test modes are completely independent of one another. Select a test mode as necessary, and run the test.

**To set to the service diagnostic mode:**

1. Press and hold the C#3, D#3, C#4 keys, and then turn on the power switch.

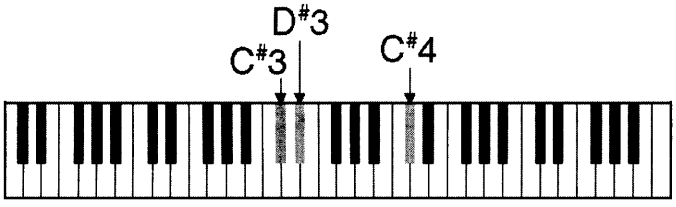



Figure-23

2. After the service diagnostic screen is displayed on the LCD, release the three keys.
3. Use the corresponding buttons below the "page select" display to select the respective test.

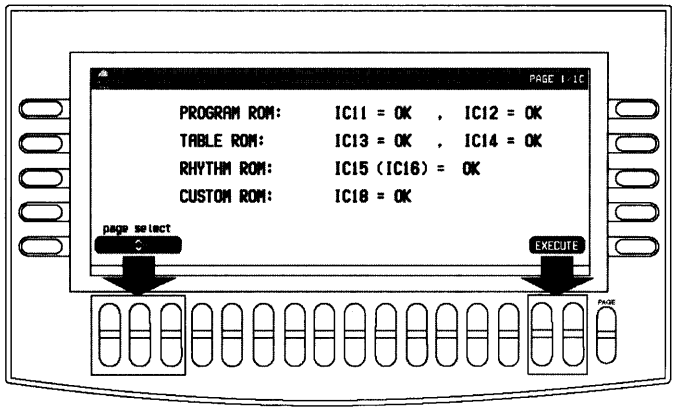



Figure-24

## 7.1. ROM device test

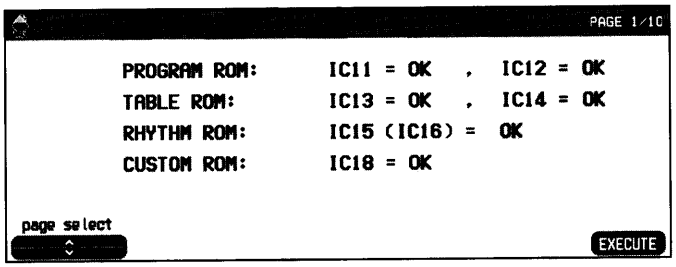



Figure-25

- Press the EXECUTE button to begin the test.
- The test result (OK or NG) is displayed within twenty seconds. If the test result is NG, not only the respective IC, but a break or short circuit in the ADDRESS/DATA BUS as well as in any of the strobe signal lines may be the cause of the failure.

## 7.2. RAM device test

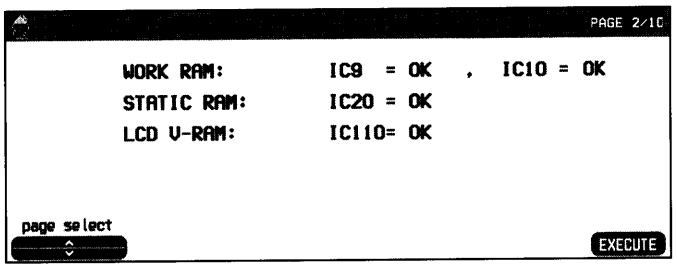



Figure-26

- Press the EXECUTE button to begin the test.
- The test result (OK or NG) is displayed within few seconds. If the test result is NG, not only the respective IC, but a break or short circuit in the ADDRESS/DATA BUS as well as in any of the strobe signal lines may be the cause of the failure.

## 7.3. Other device test

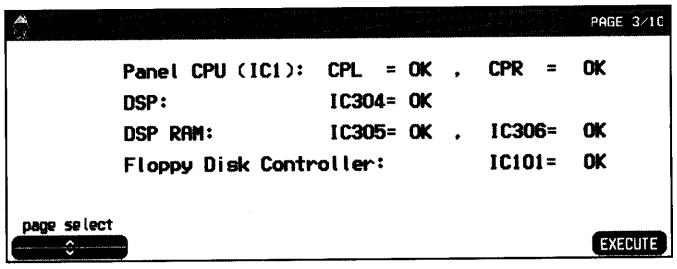



Figure-27

- Press the EXECUTE button to begin the test.
- The test result (OK or NG) is displayed witin few seconds. If the test result is NG, not only the respective IC, but a break or short circuit in the ADDRESS/DATA BUS as well as in any of the strobe signal lines may be the cause of the failure.

## 7.4. Floppy Disk SAVE/LOAD test

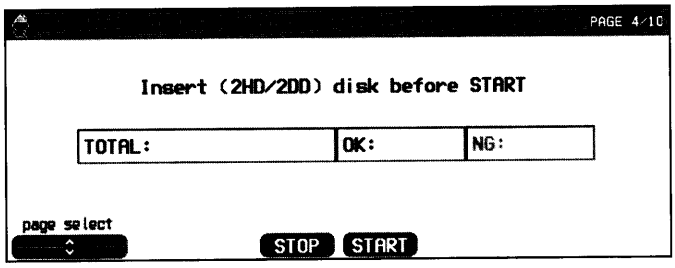



Figure-28

- Insert a formatted floppy disk into the Disk Drive. Press the START button to begin the test.
- The test is carried out repeatedly. Data is saved and loaded, and then the two data sets are compared. The number of times that the test results in OK or NG are counted and displayed on the LCD. To interrupt the test, press the STOP button.
- Even when the Floppy Disk Drive is functioning properly, the test can result in NG. If this happens frequently, clean the magnetic heads of the Floppy Disk Drive with a cleaning disk. Then, change the disk used in testing with another disk and reperform the test. If the trouble is not solved, it is likely that the Disk Drive unit or some other part of the hardware is broken.

## 7.5. Panel SW & LED test

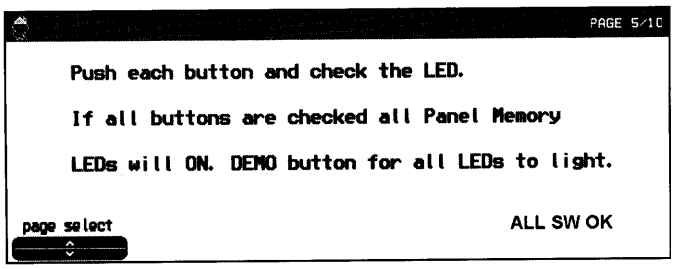



Figure-29

- Press all the buttons on the Control Panel and confirm that the corresponding LED lights.
- If an LED fails to light, the cause may be a defective switch or a break in the surrounding circuit, etc.
- After all the buttons have been pressed, all the PANEL MEMORY LEDs light. If all switches are OK, "ALL SW OK" is shown on the LCD. (If a switch is defective, nothing is shown.)
- To light all the LEDs, press and hold the DEMO button. If an LED fails to light, the LED may be defective or there may be a break in the surrounding circuit.

## 7.6. LCD module test (LCD adjustment and confirmation)

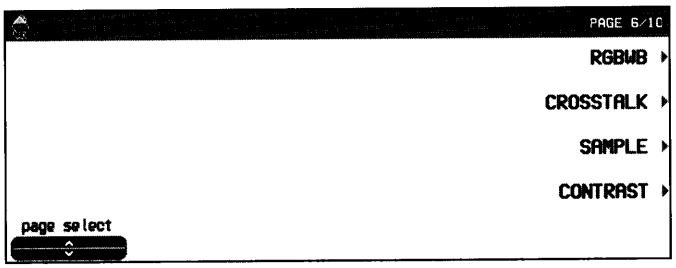



Figure-30

- Press the RGBWB, CROSSTALK, SAMPLE or CONTRAST button to begin the respective test.

RGBWB: All the dots light red, green, blue, white, and finally black. The display can be held by pressing the DISPLAY HOLD button.

CROSSTALK: An H pattern is shown. LCD crosstalk can be evaluated. To exit this test, press the EXIT button.

SAMPLE: Several display patterns shown during normal use are shown. The display can be held by pressing the DISPLAY HOLD button.

CONTRAST: The test pattern is shown. Adjust the contrast by the CONTRAST control on the left of the LCD. To exit this test, press the EXIT button.

- If the correct display is not shown during these tests, the LCD or LCD drive circuit may be defective.

## 7.7. In & Out interface test

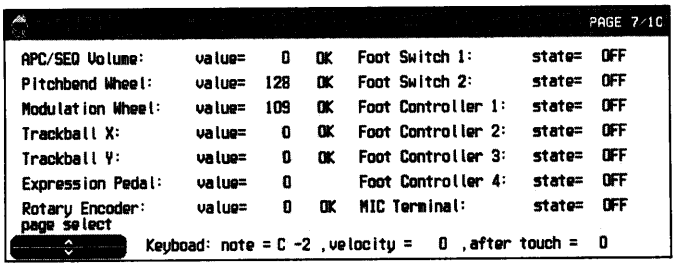



Figure-31

- The operation status of each input action part can be confirmed. If the part is operating properly, "OK" is shown, excluding the Expression Pedal.
- When a keyboard key is pressed, the corresponding pitch and velocity aftertouch is displayed (only as long as the key is depressed).
- The respective statuses for other input action parts are displayed. (Analog parts are shown as numerical values from 0 to 255, and switches are shown as ON or OFF.)
- If the display fails to change when the part is operated, or if the change is abnormal, it may indicate a defective part.

## 7.8. MIDI IN/OUT test

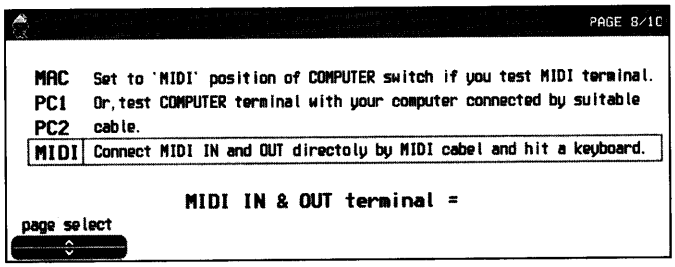



Figure-32

- First, set the COMPUTER terminal switch to MIDI.
- Use a MIDI cable to directly connect the MIDI IN and MIDI OUT terminals.
- When a keyboard key is pressed, the transmitted and received data are compared and the MIDI terminal operation is indicated as being OK or NG.
- If NG is shown, check both the IN and OUT terminals, as well as the circuit.

## 7.9. WAVE ROM test

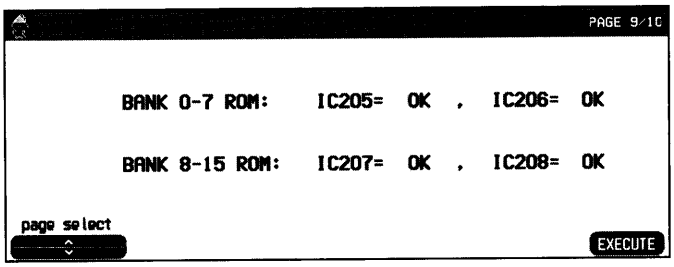



Figure-33

- Press the EXECUTE button to start the test.
- The test result (OK or NG) is displayed within thirty seconds. If the test result is NG, not only the respective IC, but a break or short circuit in the ADDRESS/DATA BUS as well as in any of the strobe signal lines may be the cause of the failure.

## 7.10. SOUND SYSTEM test

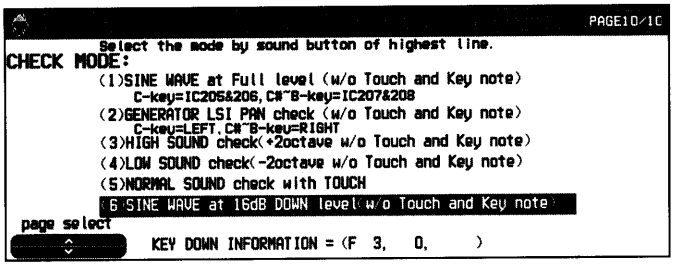



Figure-34

- Use the button in the SOUND GROUP to select an item from 1 to 6 as shown in Figure-35. Press a keyboard key.

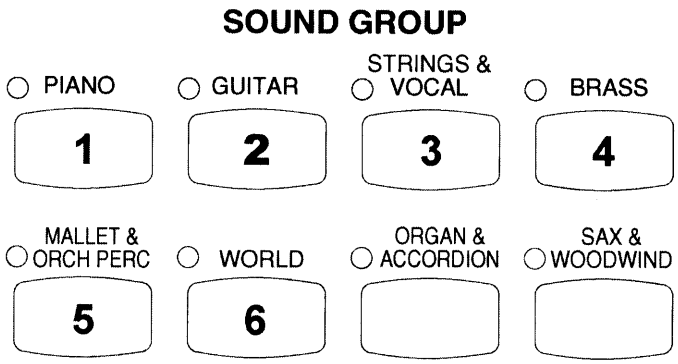



Figure-35

1. Generate a full amplitude sine wave in the pitch of each key. (No touch, fixed stereo center).

   If no sound is generated or if the sound is distorted, the sound generator ROM corresponding to the key position is defective.

2. For confirming the output pathway from the sound generator. (Fixed scale, no touch)

   The Lch and Rch sound outputs are confirmed separately

3. Generate a full amplitude sine wave in the pitch of each ke +2 octaves. (No touch, fixed stereo center)

   By generating a sound frequency outside the norma keyboard zone, you can confirm whether or not there is a abnormality in the sound output frequency zone.

4. Generates a full amplitude sine wave in the pitch of eac key -2 octaves. (No touch, fixed stereo center)

   By generating a sound frequency outside the norma keyboard zone, you can confirm whether or not there is a abnormality in the sound output frequency zone.

5. Generate a sine wave in the pitch of each key with touch.

   You can confirm if the volume changes depending on th touch.

6. Generate a full amplitude sine wave in the pitch of each ke at a -16 dB volume. (No touch, fixed stereo center)

   You can confirm the same sound output as in 1, at a lowe volume.

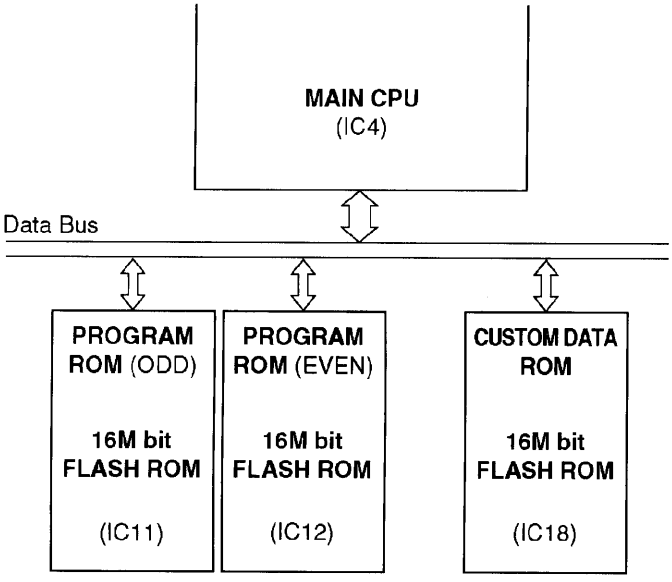
# 8 PRECAUTIONS BEFORE SERVICING THE MAIN CIRCUIT

This model employs a FLASH ROM (EEPROM) for the PROGRAM ROMs and the CUSTOM DATA ROM. If changing any of these ICs, service the MAIN CIRCUIT as explained here following.

## 8.1. About the FLASH ROM

The FLASH ROM can be electrically erased and rewritten. This model is designed so that the repair technician can easily write and change programs and data in the FLASH ROM, by using a floppy disk.

Block Diagram of MAIN CIRCUIT CPU and peripheral ICs




* FLASH ROM contents
IC11: MAIN CPU program (ODD)
IC12: MAIN CPU program (EVEN)
IC18: RHYTHM & ACCOMP data for the RHYTHM GROUP/CUSTOM function

Figure-36

## 8.2. Notes on replacing FLASH ROMs

The replacement parts include a FLASH ROM with a availabl memory and the PROGRAM DISKs which contains th program to be written into the PROGRAM ROMs. Afte replacing the PROGRAM ROM, always write the program int it from the PROGRAM DISKs included in the replacemen parts. For details on programming, see "After replacing th PROGRAM ROM (IC11/IC12)" .

The CUSTOM DATA ROM stores RHYTHM & ACCOMP dat for the RHYTHM GROUP/CUSTOM function. The initia RHYTHM & ACCOMP data is factory-set in the CUSTOM DATA ROM at the time of shipping. The CUSTOM DATA ROM can also store COMPOSER data that the user creates However, user-data is lost when the CUSTOM DATA ROM i replaced. After replacing the CUSTOM DATA ROM, default th data in it with the INITIAL DATA DISK attached to this product For details on defaulting, see "After replacing the CUSTOM DATA ROM (IC18)".

## 8.3. About the replacement parts

The same FLASH ROM with a available memory can be use for the PROGRAM ROMs (IC11/IC12). Moreover, the include PROGRAM DISKs contains all programs. Therefore, th replacement parts can be used for IC11 and IC12.

## 8.4. How to write program/data into FLASH ROMs

### 8.4.1. After replacing the PROGRAM ROM (IC11/IC12)

1. Set the PROGRAM DISK 1 included in the replacemen parts into the Floppy Disk Drive.
2. Hold down the **PANEL MEMORY** buttons **1**, **2**, **3** and **4** (as shown in Figure-37), and turn on the power switch.

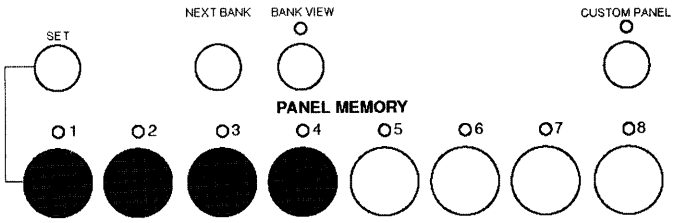



Figure-37

3. Check "Flash Memory Update" is displayed on the LCD, and release the **PANEL MEMORY** buttons.

   The program will be written into the FLASH ROM automatically. Replace the floppy disk when instructed.

4. When the operation is complete, "Completed!!" will be displayed on the LCD.

5. Turn the power switch off and then back on again. Check the instrument is functioning properly.

### 8.4.2. After replacing the CUSTOM DATA ROM (IC18)

1. With the normal display displayed on the LCD, set the INITIAL DATA DISK included with the model into the Floppy Disk Drive.

   The normal display automatically changes to the DISK MENU display.

2. Select "LOAD" to change to the file select display.

3. Move the highlighting cursor to "CTMINI" in "No. 01" and select "LOAD".

   "PLEASE WAIT..." will appear on the LCD and the model will start defaulting data in the CUSTOM DATA ROM.

4. When the operation is complete, "Completed!!" will be displayed on the LCD.

5. Turn the power switch off and then back on again. Check the instrument is functioning properly.

# 9 MEASUREMENTS AND ADJUSTMENTS

Table-3

| ADJUSTMENT | MEASURING CONDITIONS | EQUIPMENT | ADJUSTMENT P.C.B. | ADJ. POINT | CONNECT METER TO | METER READING |
|---|---|---|---|---|---|---|
| AFTER TOUCH SENSOR Sensitivity | any position | Oscilloscope | MKB3 P.C.B. | VR1 | CN11-3pin | 6.0V |
| | 1. Press one of the any keys hardly and check the CN11-3 pin voltage.<br>The voltage will increase and become steady.<br>2. Adjust the voltage to 6.0V with VR1 at that time. | | | | | |

# 10 PRECAUTIONS BEFORE SERVICING

## 10.1. Precautions for measuring of the output waveforms

1. The waveform was measured with a "National Digital Storage Oscilloscope VP-5730A". Therefore the waveforms of musical tone signals shown may differ somewhat due to the difference in the timing of triggering.
2. Since the 1/10 test probe is used, the indicated voltage value on the bottom part of each waveform illustration is 1/10 of the actual value (e.g. 0.2 V/cm should be 2.0 V/cm).
3. To measure the waveforms, first set this unit to the service diagnostic mode (refer to "WAVE ROM test"). The WAVE ROM output will then be output as a sine wave to facilitate the servicing check.

## 10.2. Important safety notice

- Components identified by a ⚠ mark have special characteristics impotant for safety.
- When replacing any of these components, use only manufacture's specified parts.

## 10.3. Symbolic Marks

The symbolic marks for resistors and capacitors which used in this circuits are classified as following Table-1 and Table-2.

### 10.3.1. RESISTORS

- Resistors without symbolic mark are FIXED CARBON FILM RESISTORS (ERD-type).
- All resistors are 1/4 WATT, ±5 % TOLERANCE unless otherwise designated in schematic diagrams.

Table-1

| SYMBOL | SPECIFICATION |
|---|---|
| Ⓕ | Fixed Carbon Film Resistors "FLAME-PROOF" (ERD—F—type) |
| Ⓕ | Fixed Wire Wound Resistors "FLAME-PROOF" (ERF—type) |
| Ⓕ | Fixed Metal Oxide Film Resistors "FLAME-PROOF" (ERG—type) |
| Ⓕ | Fixed Metal Film Resistors "FLAME-PROOF" (ERX—type) |
| Ⓖ | Fixed Metal Film Resistors (Precision and High Stability) (ERO—type) |
| [F] | Fuse Type Fixed Metal Oxide Film Resistors "FLAME-PROOF" (ERQ—type) |
| [F] | Fuse Type Fixed Carbon Film Resistors "FLAME-PROOF" (ERD2FC—type) |

### 10.3.2. CAPACITORS

- Capacitors without symbolic mark are POLYESTER CAPACITORS. (ECQM-type, ECQG-type, ±10% Tolerance)
- Polarized capacitors without symbolic mark are Aluminum Electrolytic Capapcitors. (ECEA-type, ±20% Tolerance)

Table-2

| SYMBOL | SPECIFICATION | TYPE |
|---|---|---|
| Ⓝ | Non-Polarized Electrolytic Capacitors | ECEA_KN_type |
| Ⓨ | Non-Polarized Electrolytic (for Network system) | ECEA_Y_type |
| Ⓣ | Tantalum Solid Electrolytic Capacitors | ECS_type |
| ⓉⒻ | Metalized Plastic Film Capacitors (TF Series) | ECQV_type |
| ◯ | Temperature Compensating Ceramic Capacitors | ECC_type |
| | High-Dielecytric Constant Ceramic Capacitors | ECK_type<br>ECR_type |
| | Axial Lead Ceramic Capacitors | ECB_type |
| | Metalized Polyester Film Capacitors for Across the Line | ECQ_EW_type |
| | Aluminum Electrolytic Capacitors for Smoothing Circuit | ECES_type |
| | Multilayer Ceramic Chip Capacitors | ECUV_type |

# 11 Schematic Diagram

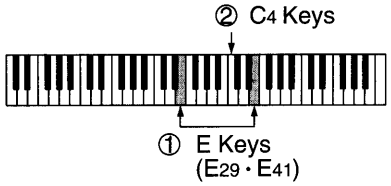
## ■Printed Circuit Board and Schematic Diagram

### ■ Measuring Condition of MAIN P.C.B.

Check Point ❸ - ❽

Set to the self-diagnostic mode followings.

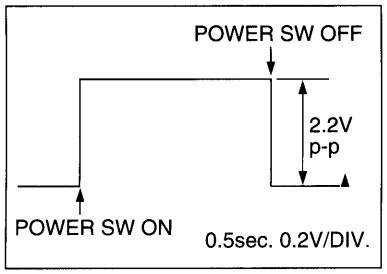
- While pressing two E keys (①) simultaneously, turn on the power switch.
- SOUND ..... BRASS
- Main Volume ..... MAX
- Keyboard ..... C4 (②)




Check Point ❶

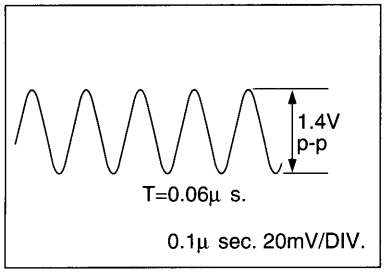
Set the initial setting mode (Refer to page I-6)

**❶ RESET**

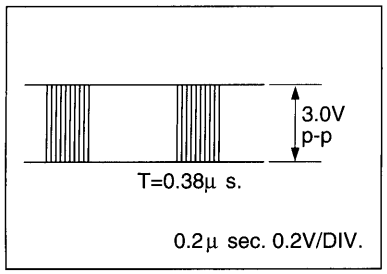



• Power SW ..... ON → OFF

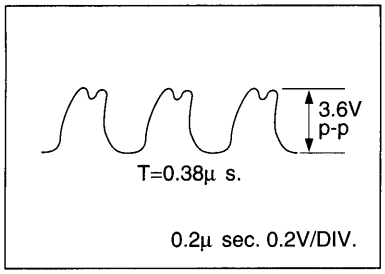
**❷ TG CLOCK**



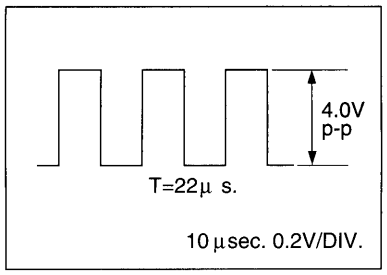

**❸**



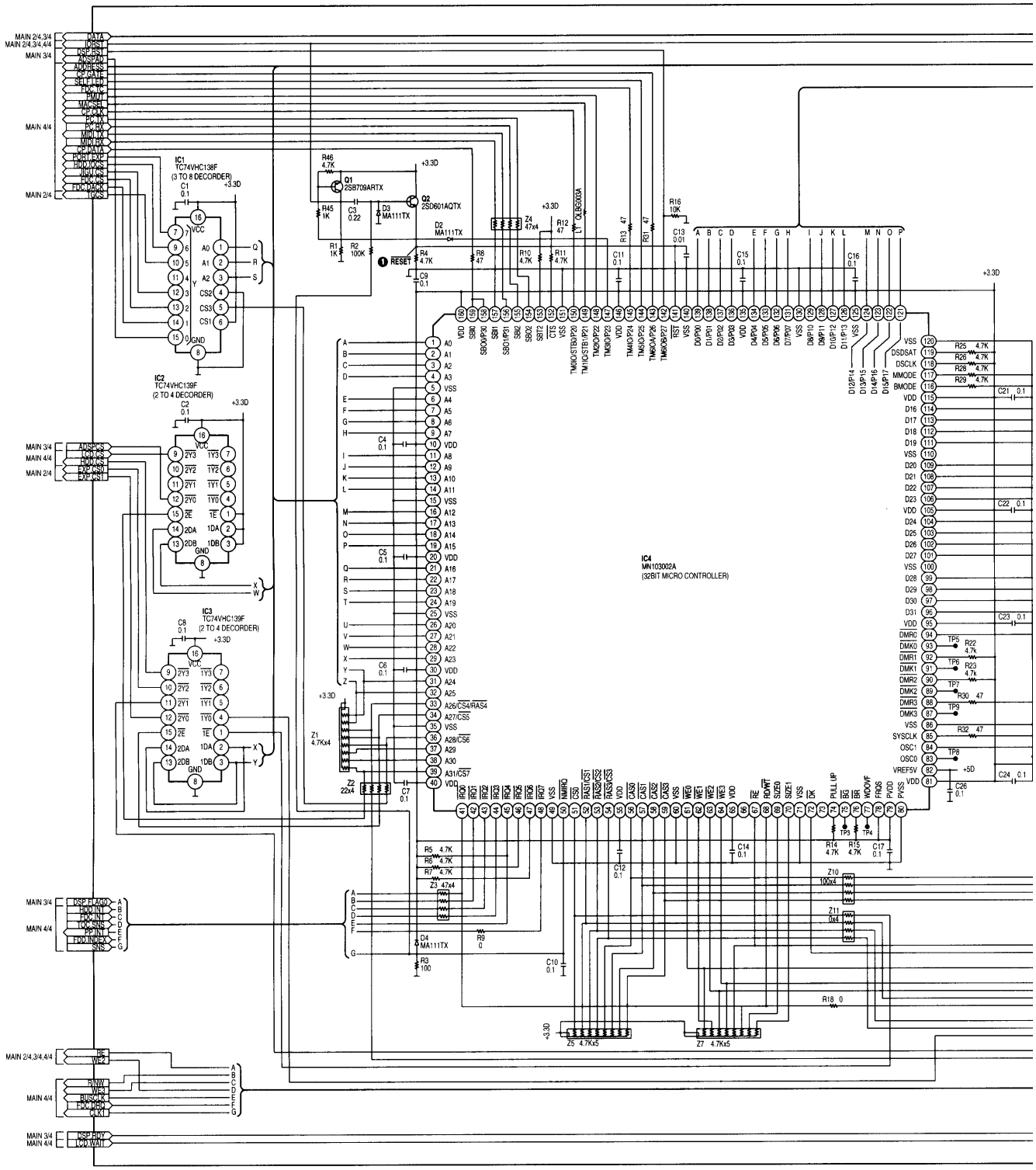

**❹**

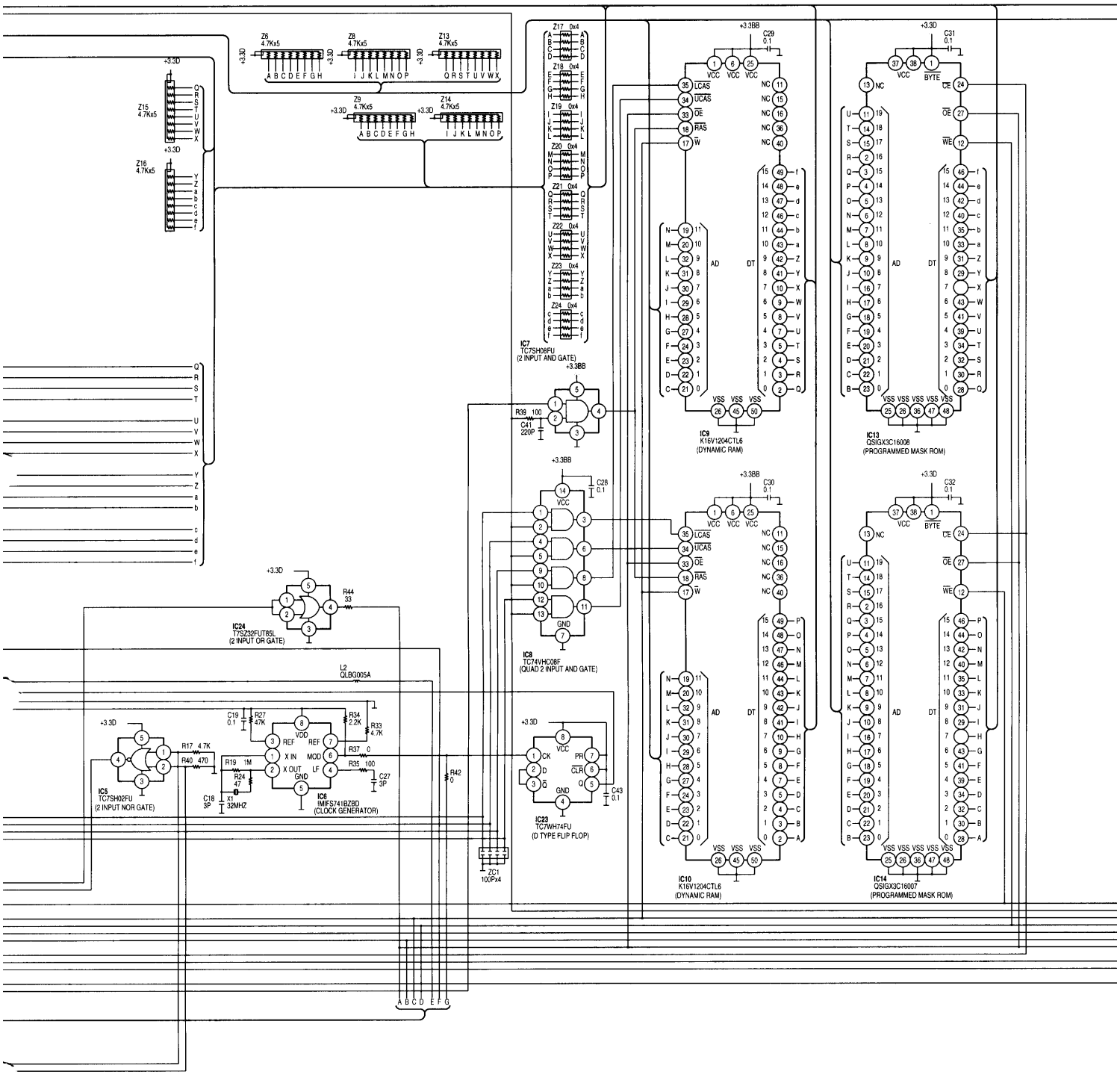


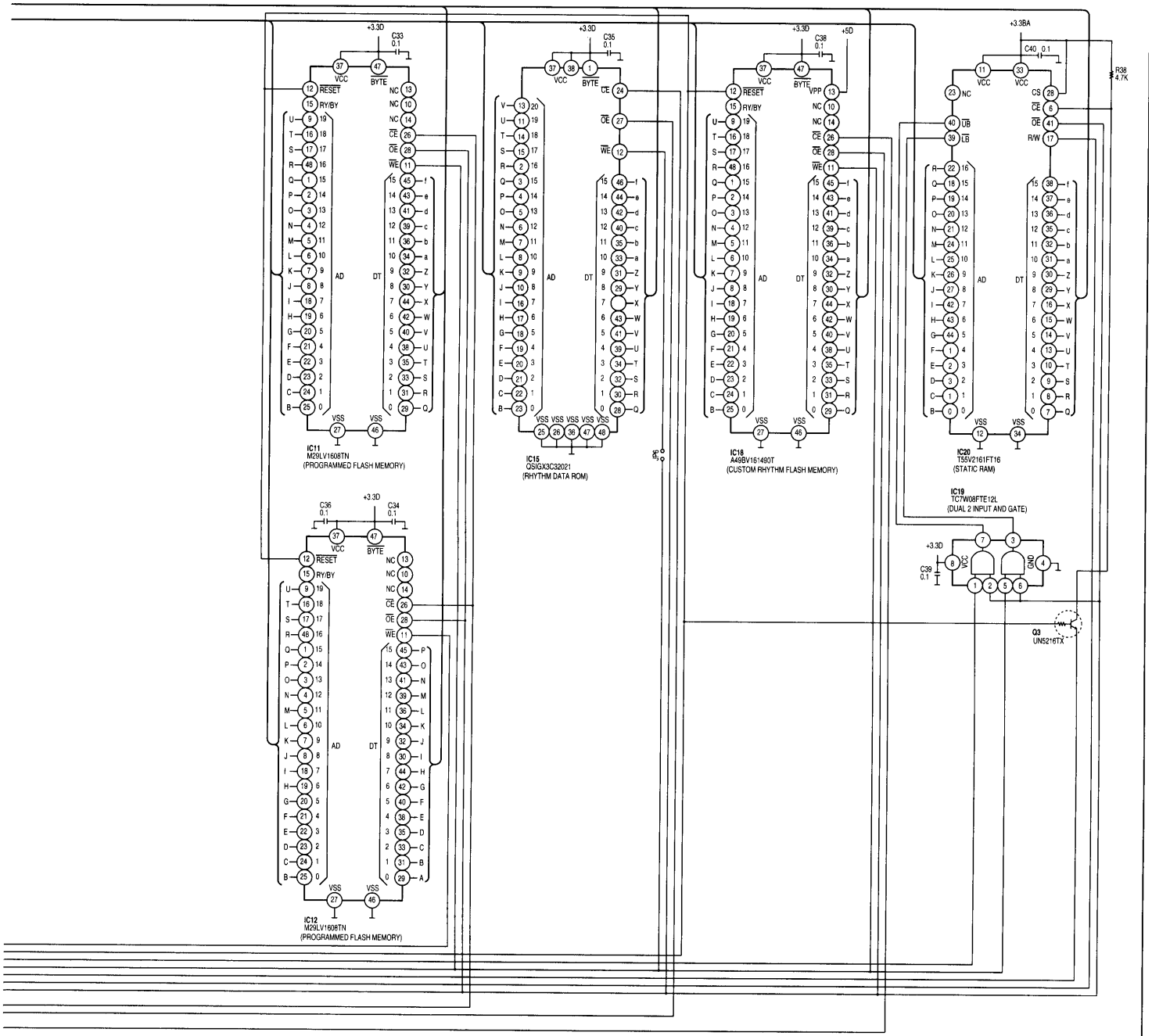

**❺**



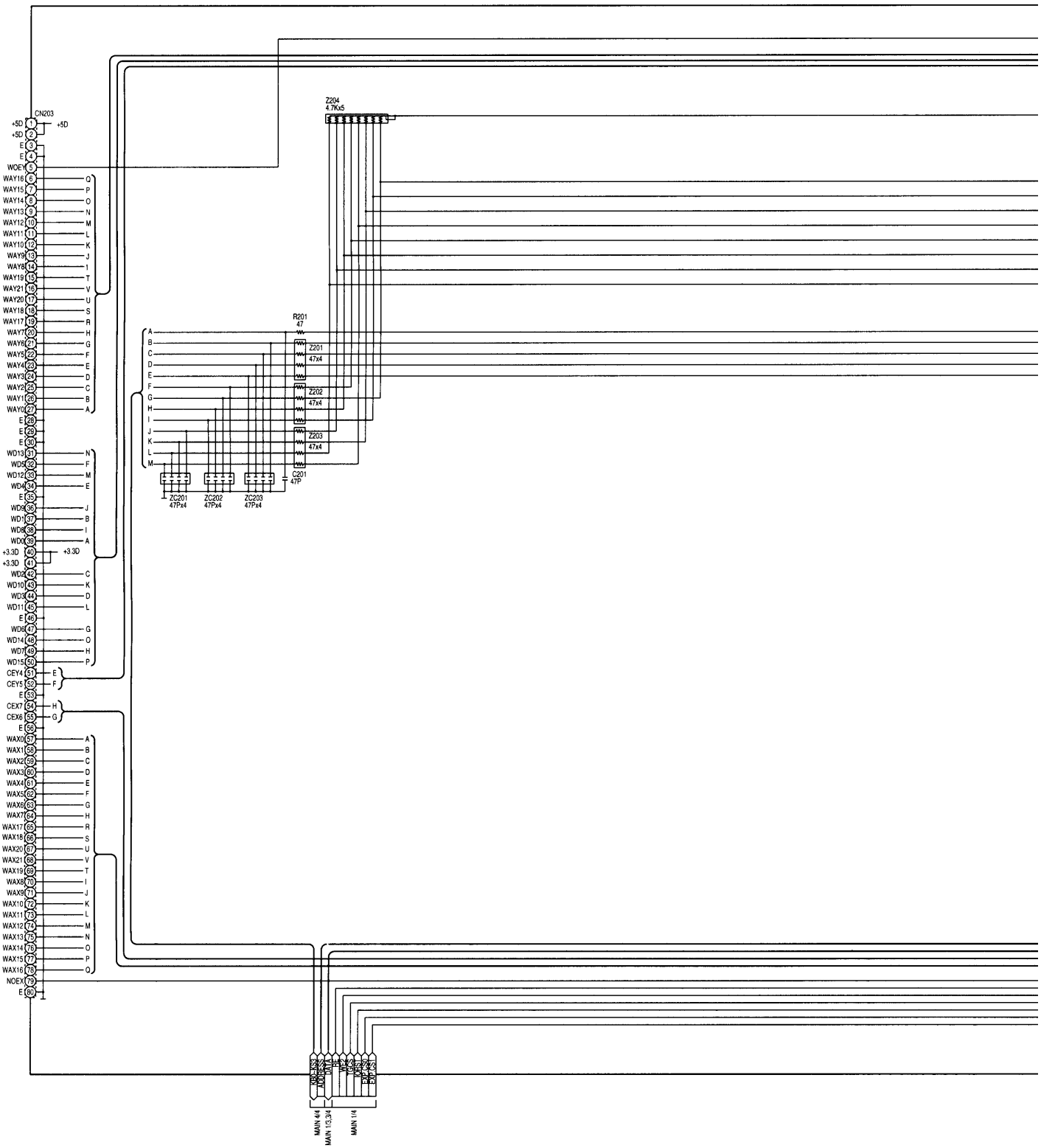
# A MAIN 1/4 CIRCUIT

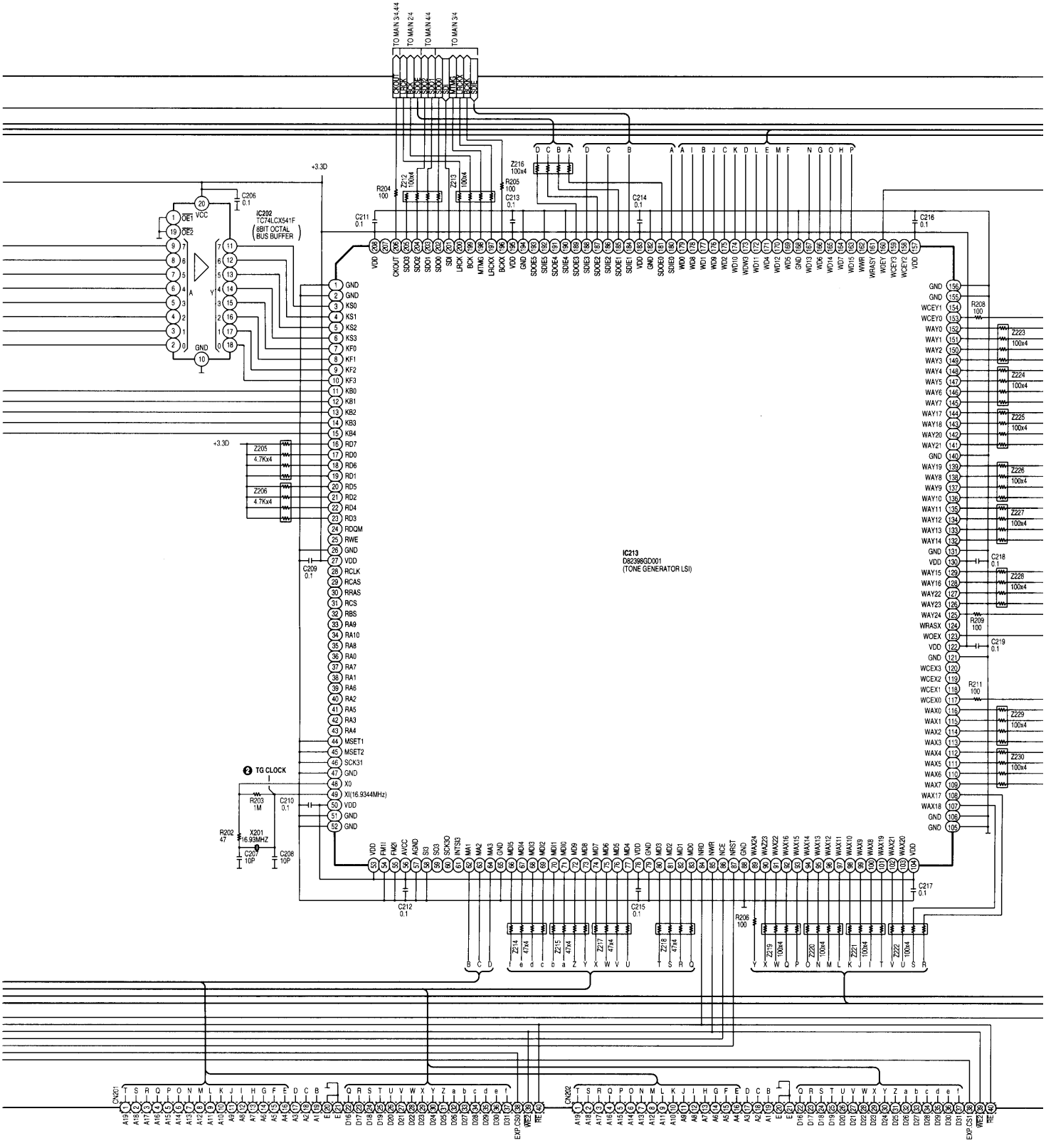


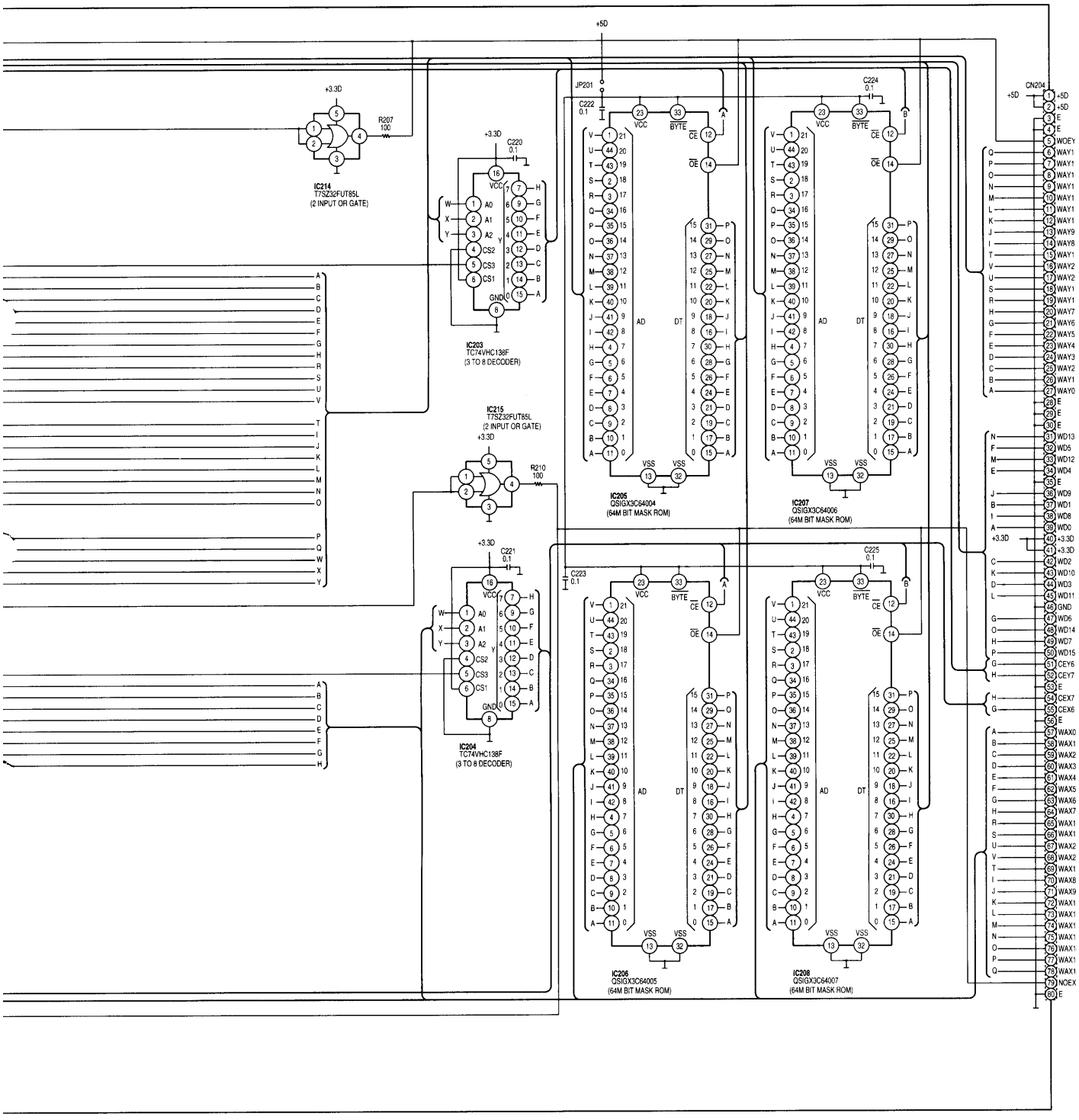

IC5
TC7SH02FU
(2 INPUT NOR GATE)
IC6
IMIFS741BZBD
(CLOCK GENERATOR)
IC7
TC7SH08FU
(2 INPUT AND GATE)
IC8
TC74VHC08F
(QUAD 2 INPUT AND GATE)
IC9
K16V1204CTL6
(DYNAMIC RAM)
IC10
K16V1204CTL6
(DYNAMIC RAM)
IC13
QSIGX3C16008
(PROGRAMMED MASK ROM)
IC14
QSIGX3C16007
(PROGRAMMED MASK ROM)
IC23
TC7WH74FU
(D TYPE FLIP FLOP)
IC24
T7SZ32FUT85L
(2 INPUT OR GATE)
L2
QLBG005A
X1
32MHZ
ZC1
100Px4


+3.3D
C33 0.1
IC11
M29LV1608TN
(PROGRAMMED FLASH MEMORY)
+3.3D
C35 0.1
IC15
QSIGX3C32021
(RHYTHM DATA ROM)
+3.3D
+5D
C38 0.1
IC18
A49BV161490T
(CUSTOM RHYTHM FLASH MEMORY)
+3.3BA
C40 0.1
R38 4.7K
IC20
T55V2161FT16
(STATIC RAM)
IC19
TC7W08FTE12L
(DUAL 2 INPUT AND GATE)
+3.3D
C39 0.1
Q3
UN5216TX
+3.3D
C36 0.1
C34 0.1
IC12
M29LV1608TN
(PROGRAMMED FLASH MEMORY)

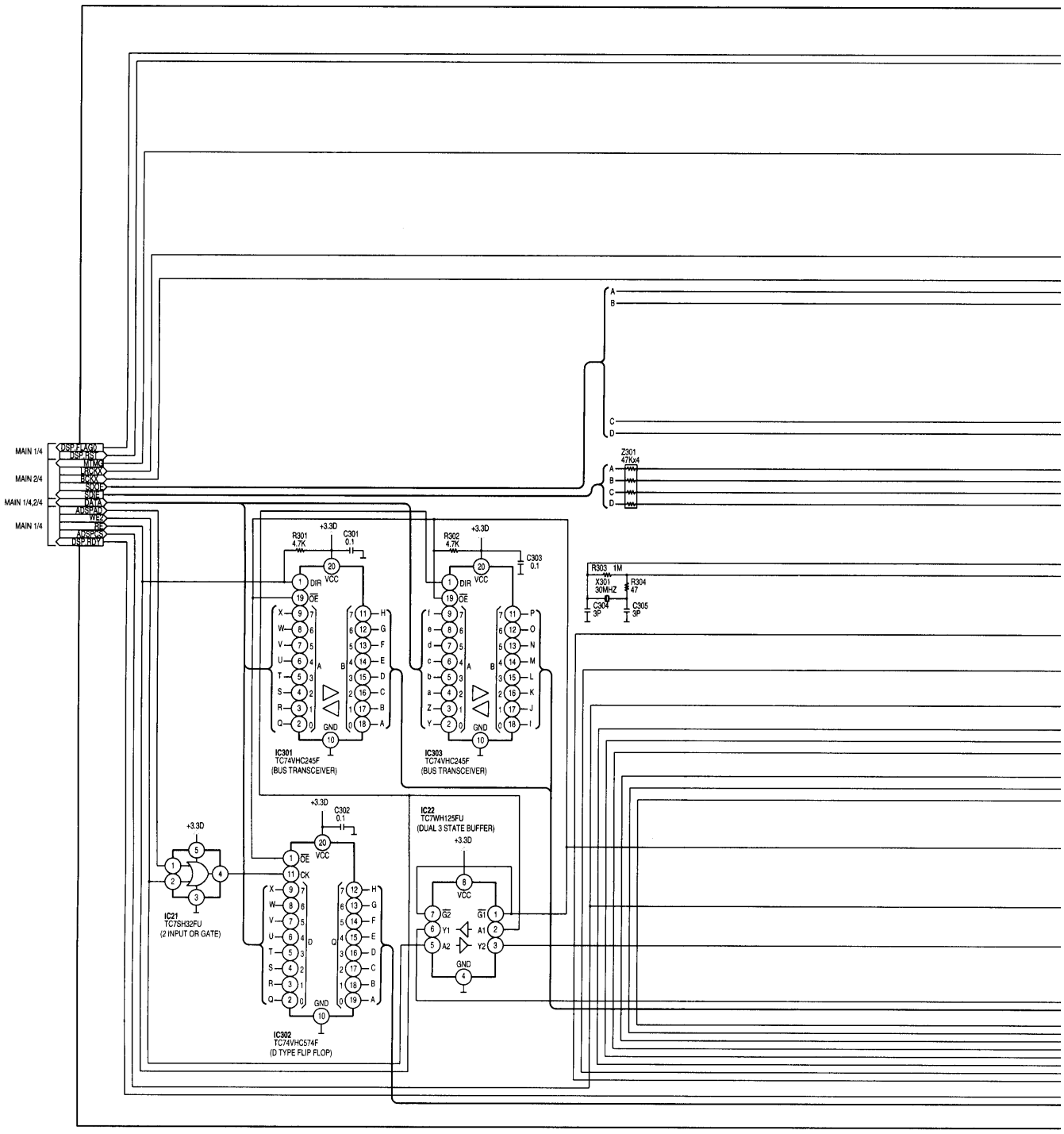
# A MAIN 2/4 CIRCUIT

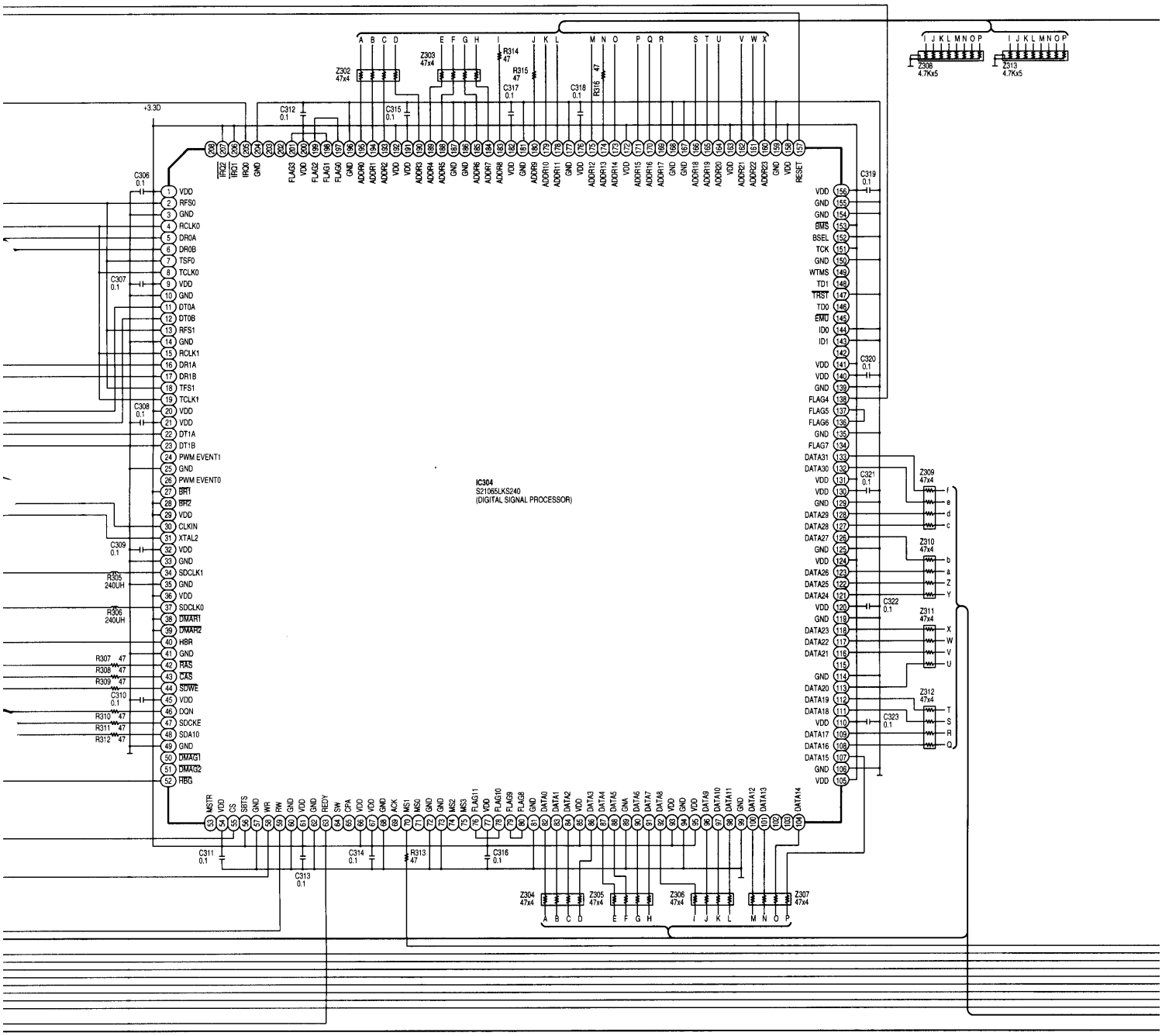


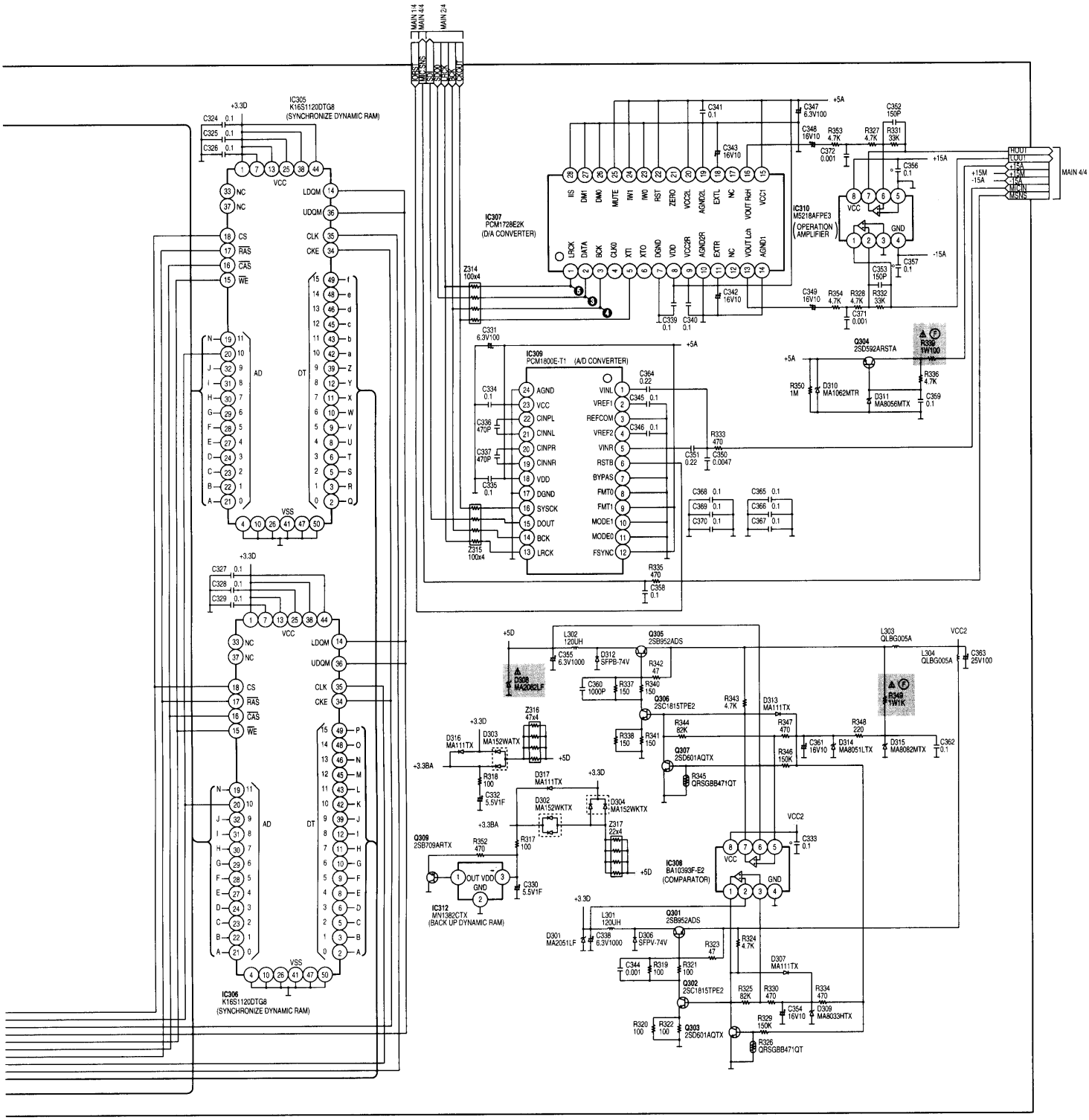

IC202
TC74LCX541F
(8BIT OCTAL BUS BUFFER)
IC213
D82398GD001
(TONE GENERATOR LSI)
TO MAIN 34-44
TO MAIN 24
TO MAIN 44
TO MAIN 34
+3.3D
VCC
GND
TG CLOCK
X201
16.93MHz
CN201
CN202


+5D
+3.3D
JP201
C222 0.1
C224 0.1
C223 0.1
C225 0.1
C220 0.1
C221 0.1
R207 100
R210 100
IC214
T7SZ32FUT85L
(2 INPUT OR GATE)
IC215
T7SZ32FUT85L
(2 INPUT OR GATE)
IC203
TC74VHC138F
(3 TO 8 DECODER)
IC204
TC74VHC138F
(3 TO 8 DECODER)
IC205
QSIGX3C64004
(64M BIT MASK ROM)
IC206
QSIGX3C64005
(64M BIT MASK ROM)
IC207
QSIGX3C64006
(64M BIT MASK ROM)
IC208
QSIGX3C64007
(64M BIT MASK ROM)
CN204
WOEY
WAY1
WAY9
WAY8
WAY7
WAY6
WAY5
WAY4
WAY3
WAY2
WAY0
WD13
WD5
WD12
WD4
WD9
WD1
WD8
WD0
WD2
WD10
WD3
WD11
WD6
WD14
WD7
WD15
CEY6
CEY7
CEX7
CEX6
WAX0
WAX1
WAX2
WAX3
WAX4
WAX5
WAX6
WAX7
WAX9
NOEX

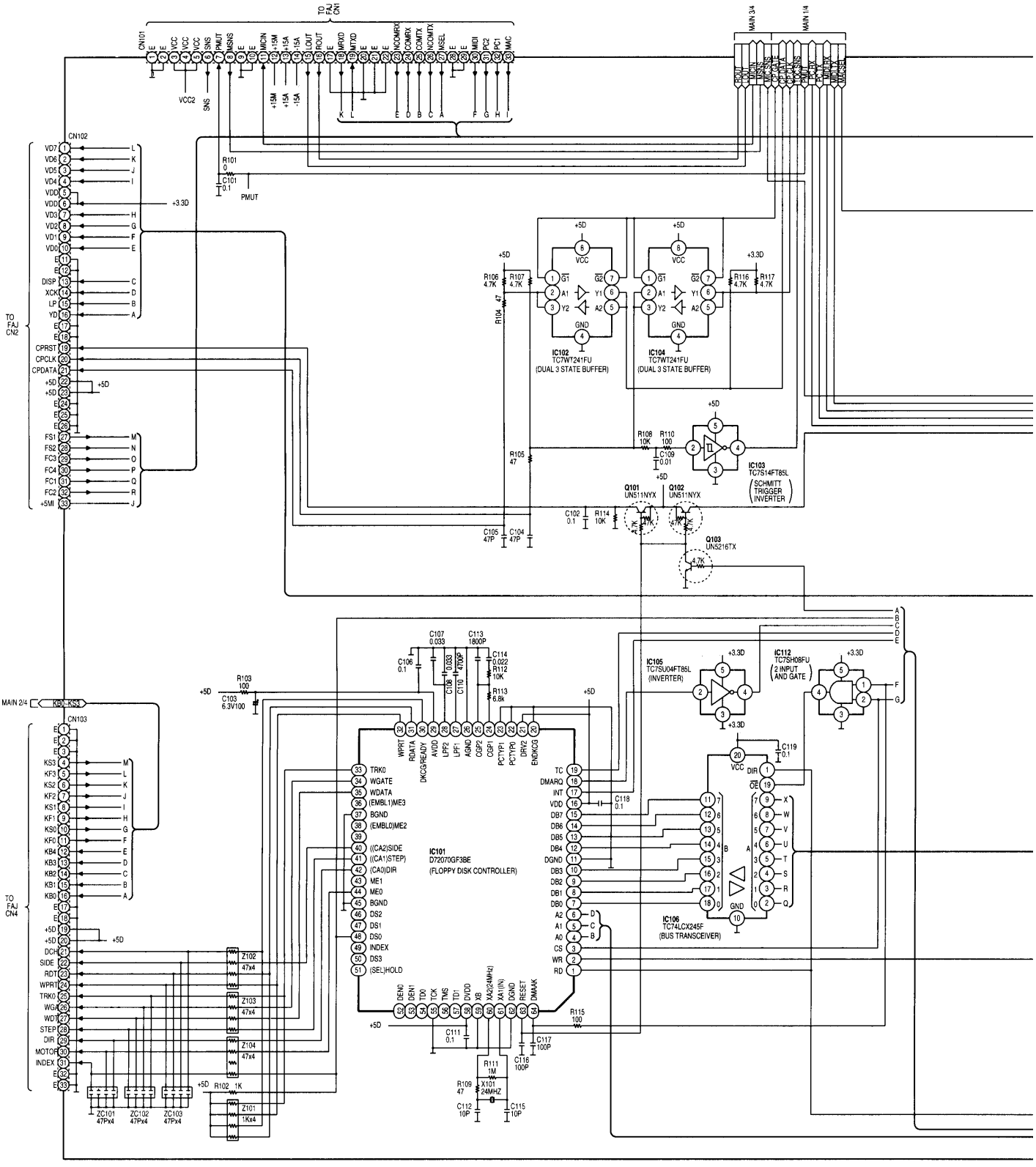
# A MAIN 3/4 CIRCUIT

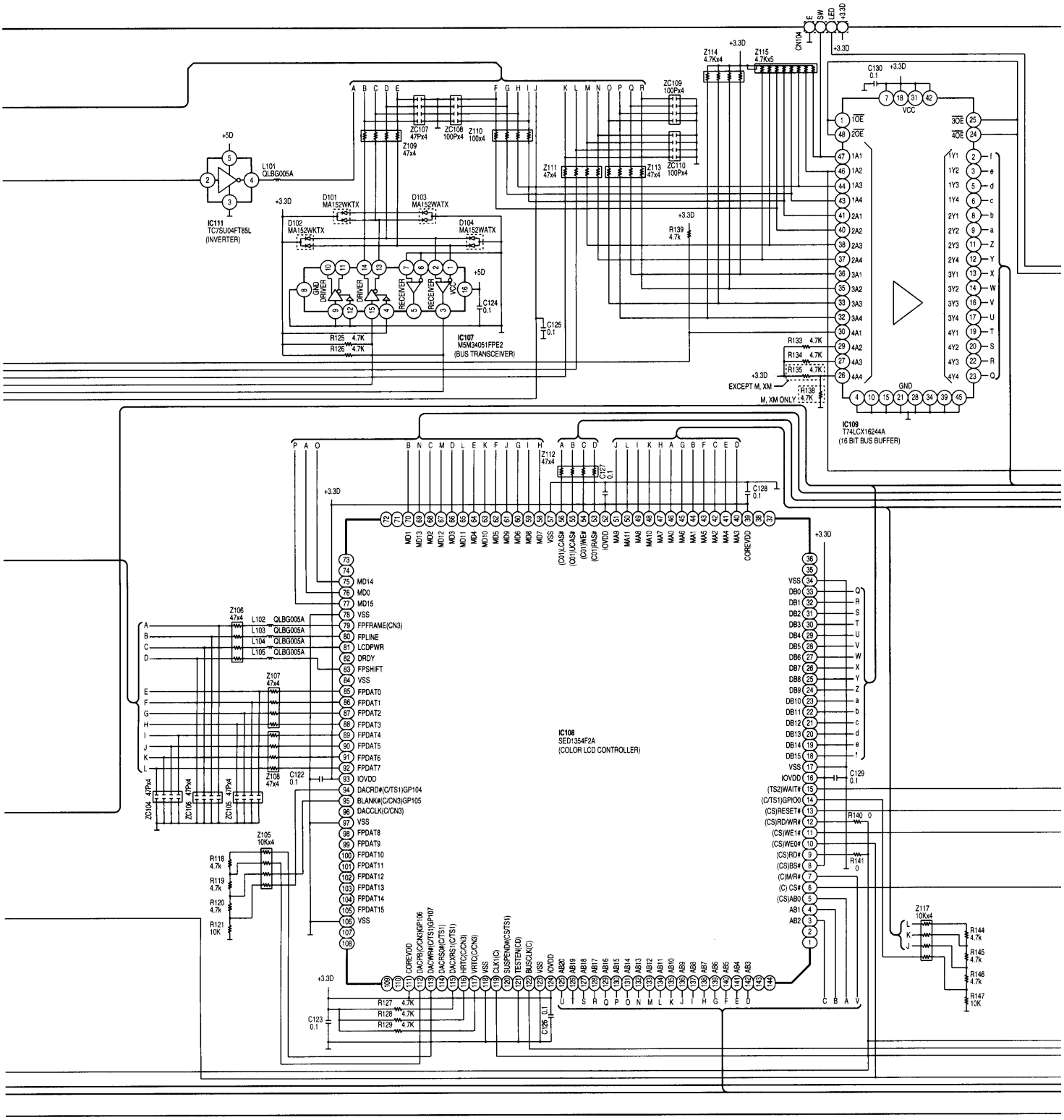


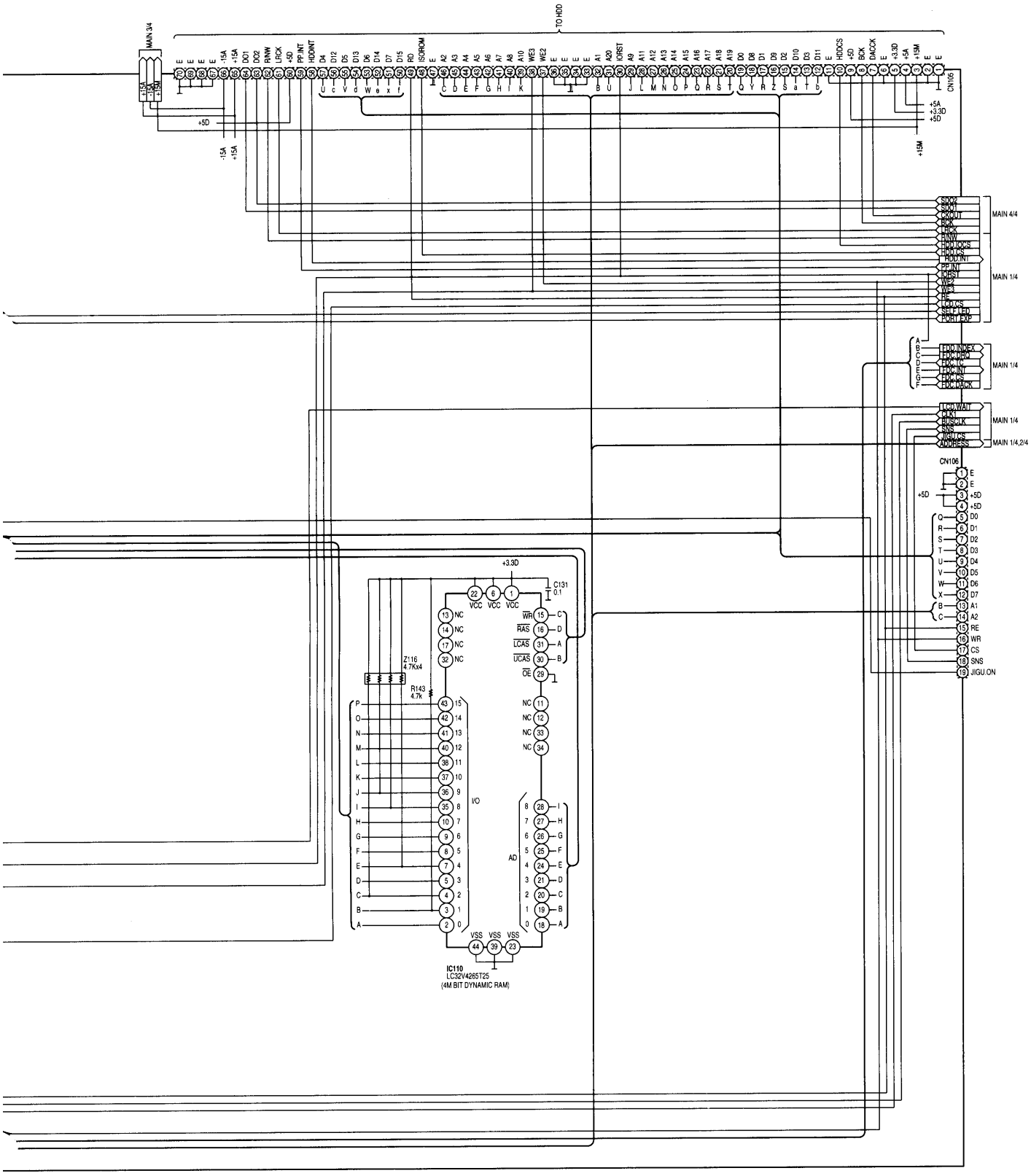

IC304
S21065LKS240
(DIGITAL SIGNAL PROCESSOR)
+3.3D
Z302 47x4
Z303 47x4
R314 47
R315 47
R316 47
C317 0.1
C318 0.1
C312 0.1
C315 0.1
Z308 4.7Kx5
Z313 4.7Kx5
C306 0.1
C307 0.1
C308 0.1
C309 0.1
C310 0.1
C311 0.1
C313 0.1
C314 0.1
C316 0.1
R313 47
R305 240UH
R306 240UH
R307 47
R308 47
R309 47
R310 47
R311 47
R312 47
C319 0.1
C320 0.1
C321 0.1
C322 0.1
C323 0.1
Z309 47x4
Z310 47x4
Z311 47x4
Z312 47x4
Z304 47x4
Z305 47x4
Z306 47x4
Z307 47x4


MAIN 1-4
MAIN 4-4
MAIN 2-4
IC305
K16S1120DTG8
(SYNCHRONIZE DYNAMIC RAM)
IC306
K16S1120DTG8
(SYNCHRONIZE DYNAMIC RAM)
IC307
PCM1728E2K
(D/A CONVERTER)
IC309
PCM1800E-T1 (A/D CONVERTER)
IC310
M5218AFPE3
(OPERATION AMPLIFIER)
IC312
MN1382CTX
(BACK UP DYNAMIC RAM)
IC308
BA10393F-E2
(COMPARATOR)
Q304
2SD592ARSTA
Q305
2SB952ADS
Q306
2SC1815TPE2
Q307
2SD601AQTX
Q309
2SB709ARTX
Q301
2SB952ADS
Q302
2SC1815TPE2
Q303
2SD601AQTX
MAIN 4/4

# A MAIN 4/4 CIRCUIT




IC111
TC7SU04FT85L
(INVERTER)
L101
QLBG005A
IC107
M5M34051FPE2
(BUS TRANSCEIVER)
IC109
T74LCX16244A
(16 BIT BUS BUFFER)
IC108
SED1354F2A
(COLOR LCD CONTROLLER)
CN104
EXCEPT M, XM
M, XM ONLY
VCC
GND
MD14
MD0
MD15
FPFRAME(CN3)
FPLINE
LCDPWR
DRDY
FPSHIFT
FPDAT0
FPDAT1
FPDAT2
FPDAT3
FPDAT4
FPDAT5
FPDAT6
FPDAT7
IOVDD
DACRD#(C/TS1)GP104
BLANK#(C/CN3)GP105
DACCLK(C/CN3)
FPDAT8
FPDAT9
FPDAT10
FPDAT11
FPDAT12
FPDAT13
FPDAT14
FPDAT15
(C)M/R#
(C) CS#
(CS)AB0

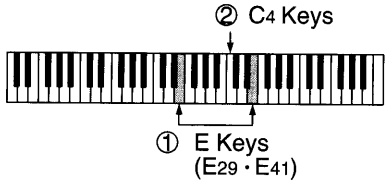

MAIN 3/4
TO HDD
CN105
+5A
+3.3D
+5D
+15M
-15A
+15A
MAIN 4/4
MAIN 1/4
MAIN 1/4
MAIN 1/4
MAIN 1/4,2/4
CN106
+3.3D
C131
0.1
Z116
4.7Kx4
R143
4.7k
I/O
AD
IC110
LC32V4265T25
(4M BIT DYNAMIC RAM)

## ■ Measuring Condition of FAJ P.C.B.

Check Point ❸ - ❽

Set to the self-diagnostic mode followings.

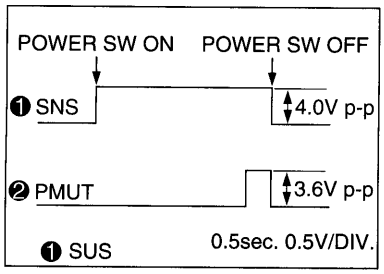
- While pressing two E keys (①) simultaneously, turn on the power switch.
- SOUND ..... BRASS
- Main Volume ..... MAX
- Keyboard ..... C4 (②)




Check Point ❶ , ❷

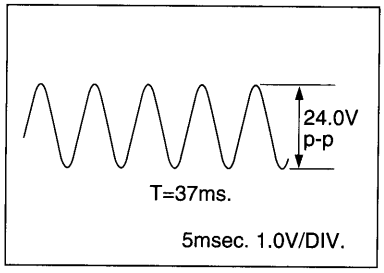
Set the initial setting mode (Refer to page I-6)

### ❶ SNS, ❷ PMUT

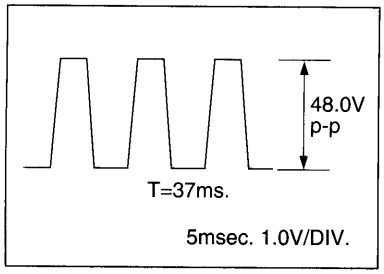



• Power SW ..... ON → OFF

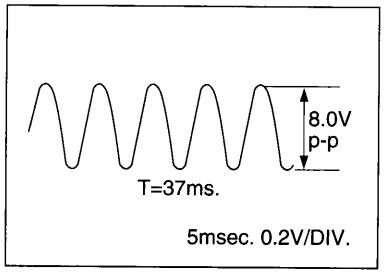
### ❸ HPL, ❹ HPR



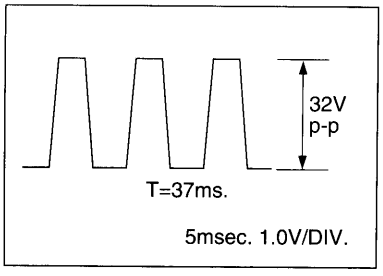

### ❺ SPL, ❻ SPR



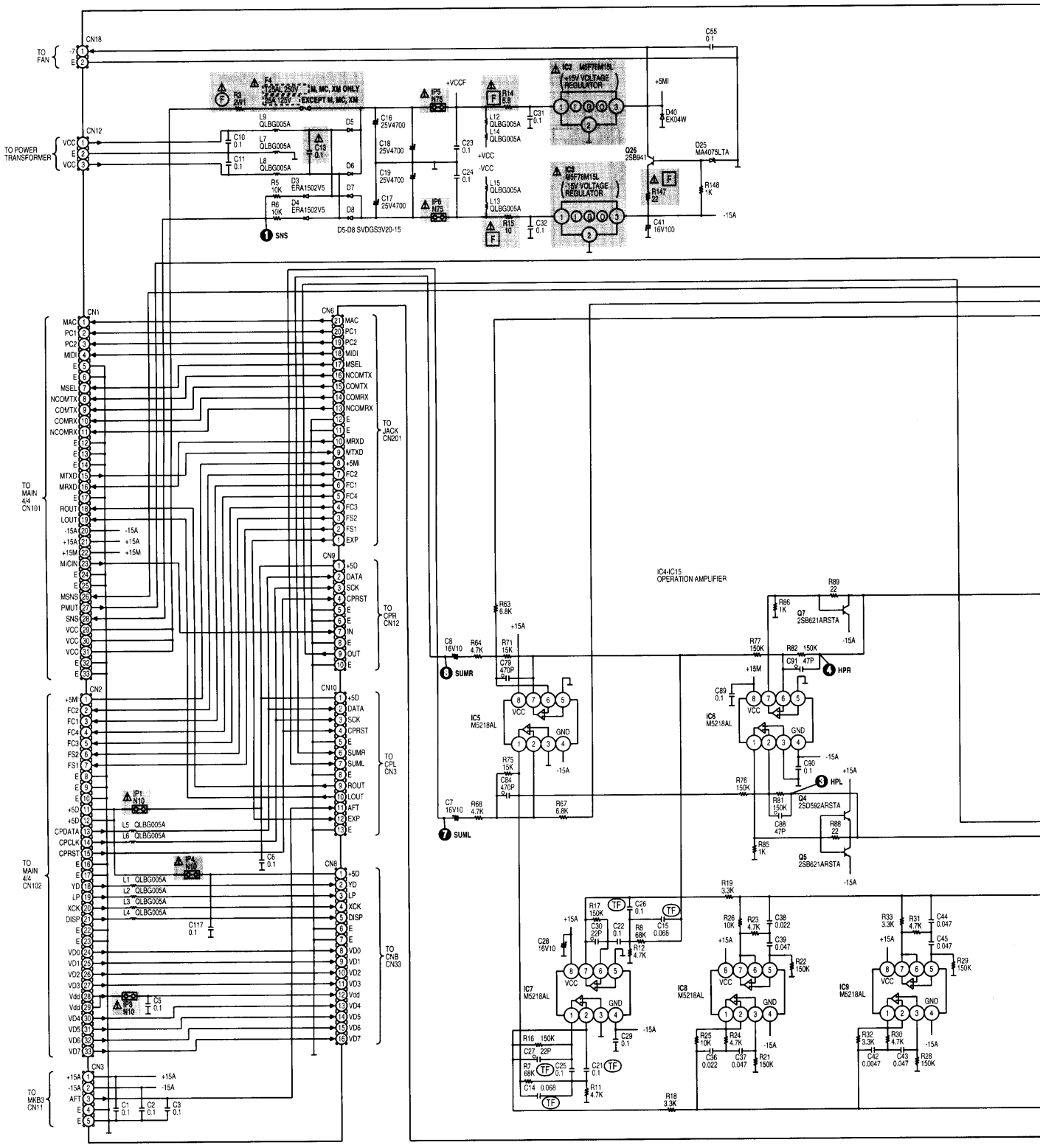

### ❼ SUML, ❽ SUMR

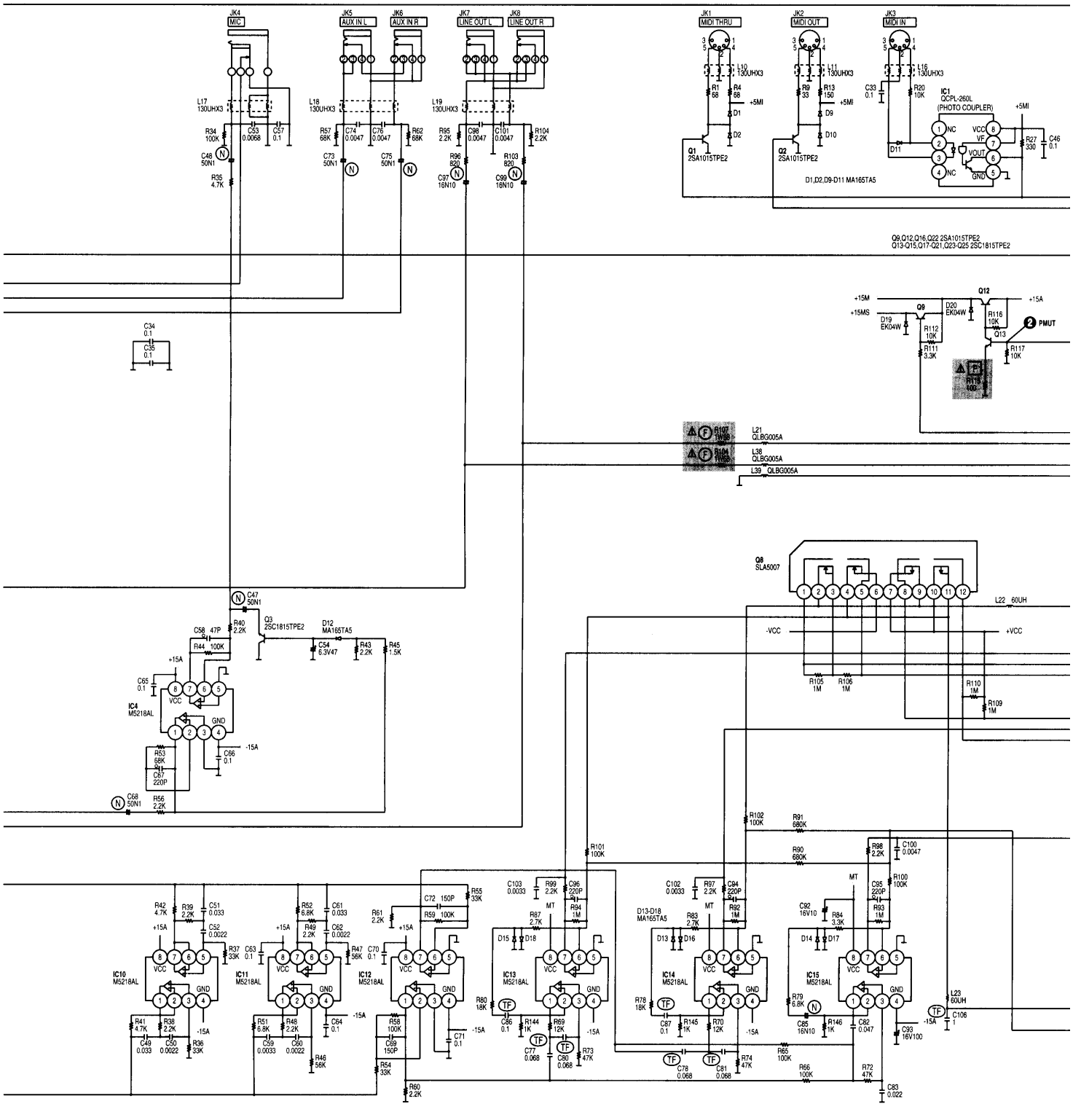


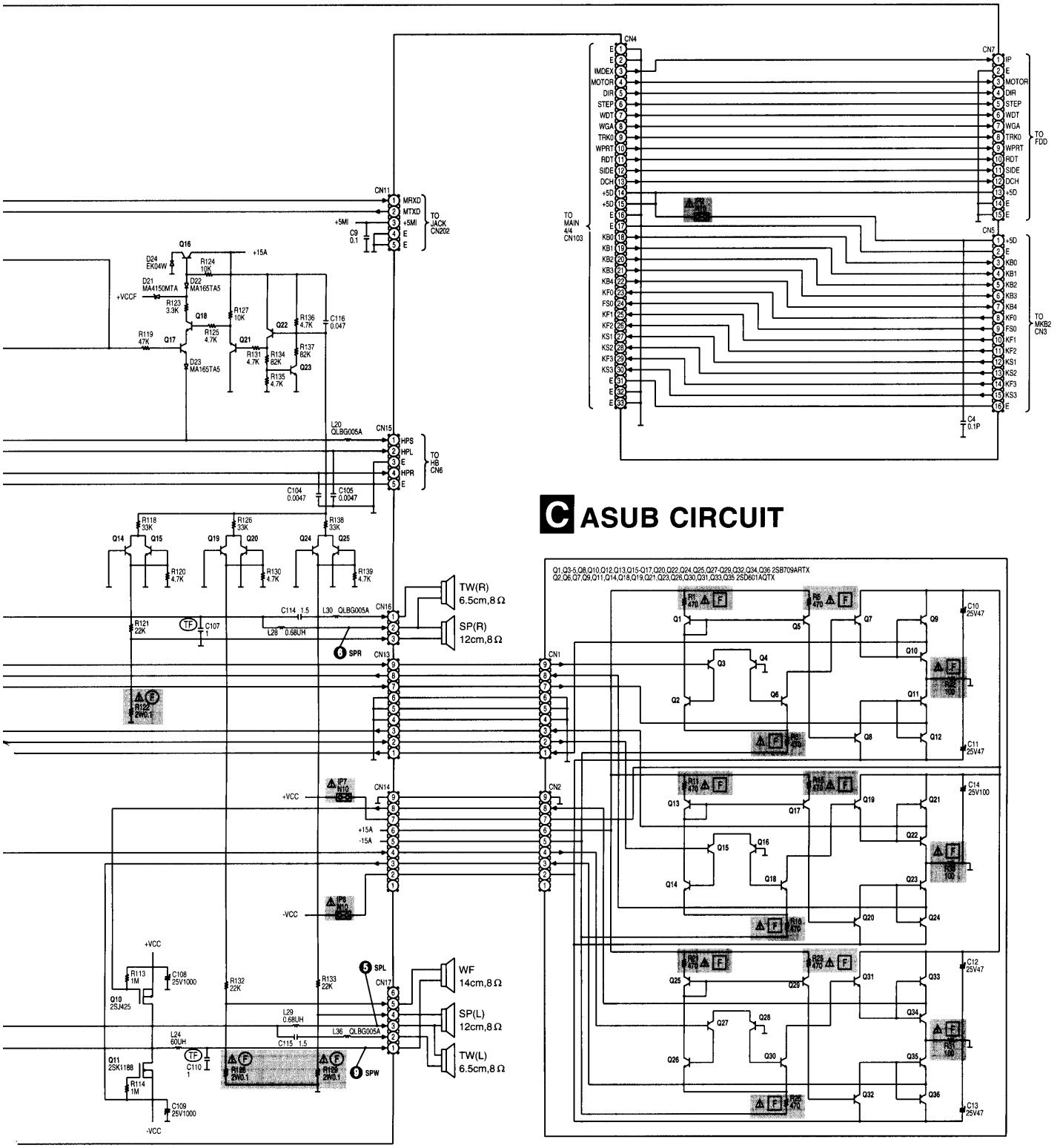

### ❾ SPW



# B FAJ CIRCUIT

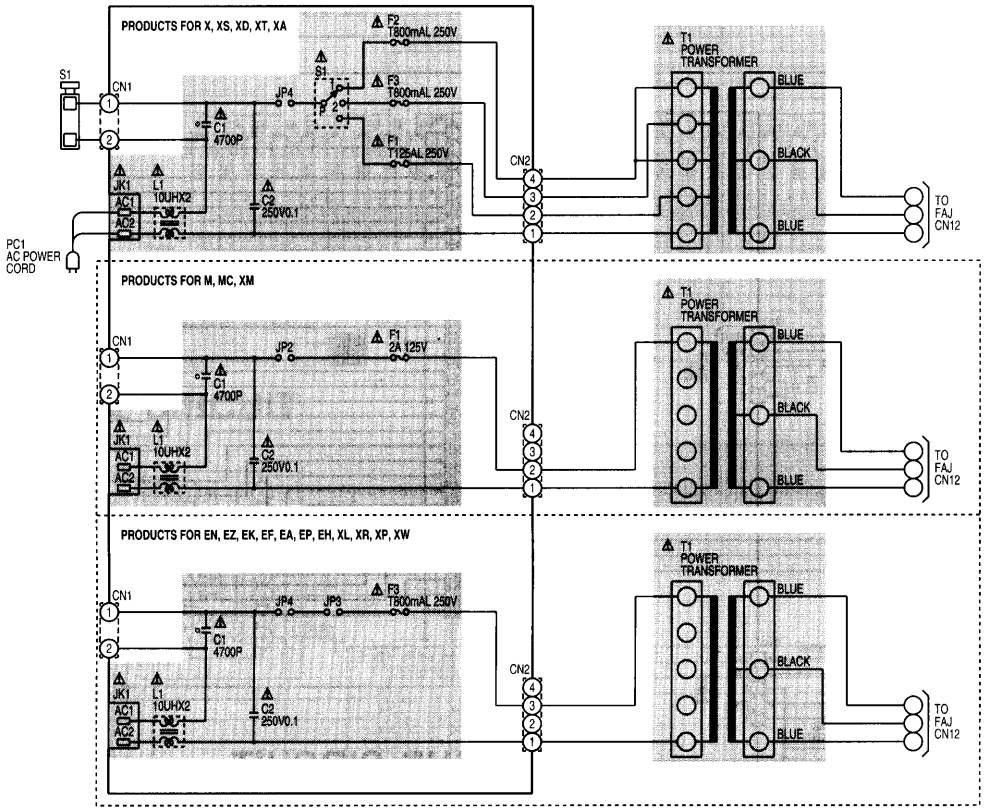



JK4 MIC
JK5 AUX IN L
JK6 AUX IN R
JK7 LINE OUT L
JK8 LINE OUT R
JK1 MIDI THRU
JK2 MIDI OUT
JK3 MIDI IN
IC1 QCPL-260L (PHOTO COUPLER)
Q1 2SA1015TPE2
Q2 2SA1015TPE2
D1,D2,D9-D11 MA165TA5
Q9,Q12,Q16,Q22 2SA1015TPE2
Q13-Q15,Q17-Q21,Q23-Q25 2SC1815TPE2
PMUT
Q3 2SC1815TPE2
D12 MA165TA5
IC4 M5218AL
Q8 SLA5007
-VCC
+VCC
L22 60UH
L23 60UH
IC10 M5218AL
IC11 M5218AL
IC12 M5218AL
IC13 M5218AL
IC14 M5218AL
IC15 M5218AL
D13-D18 MA165TA5
L21 QLBG005A
L38 QLBG005A
L39 QLBG005A

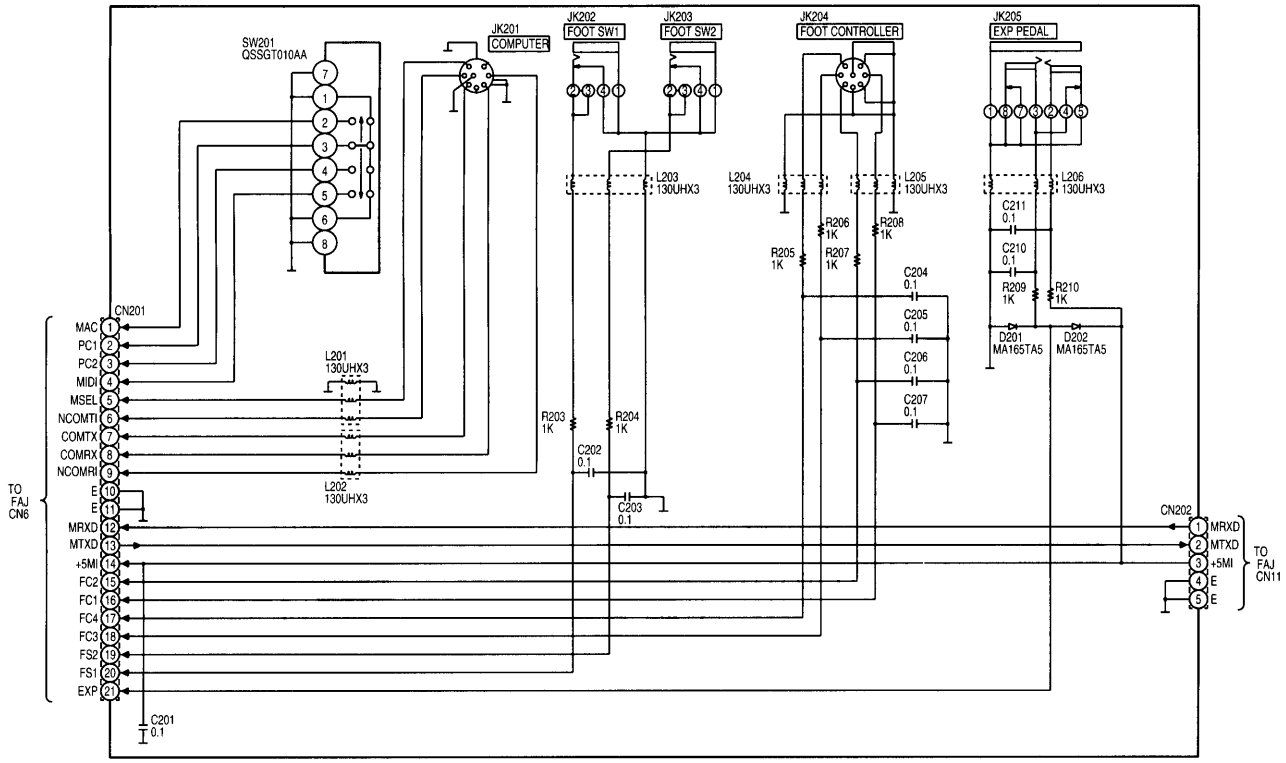



## CASUB CIRCUIT

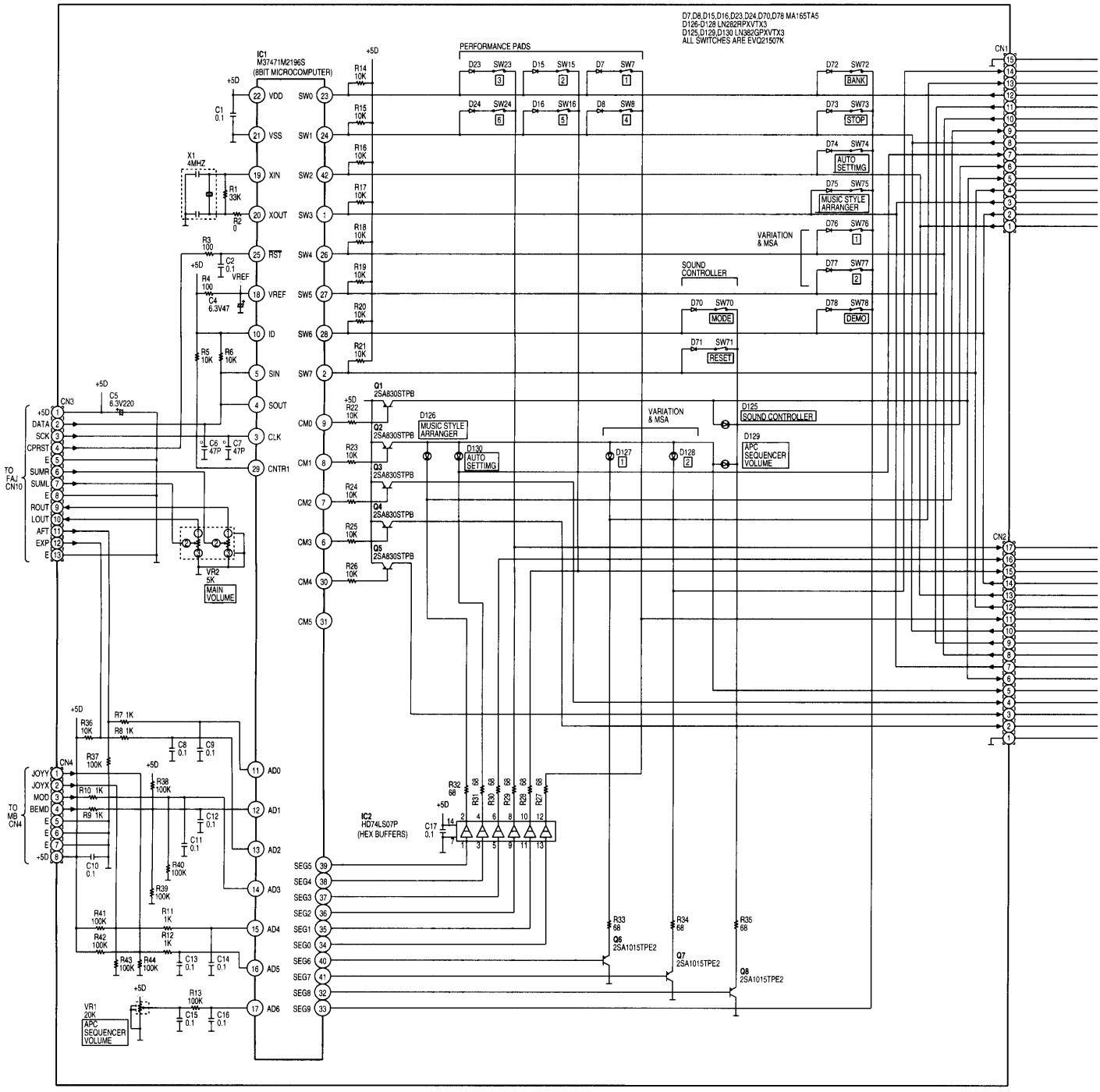
# D ACP CIRCUIT




# J JACK CIRCUIT



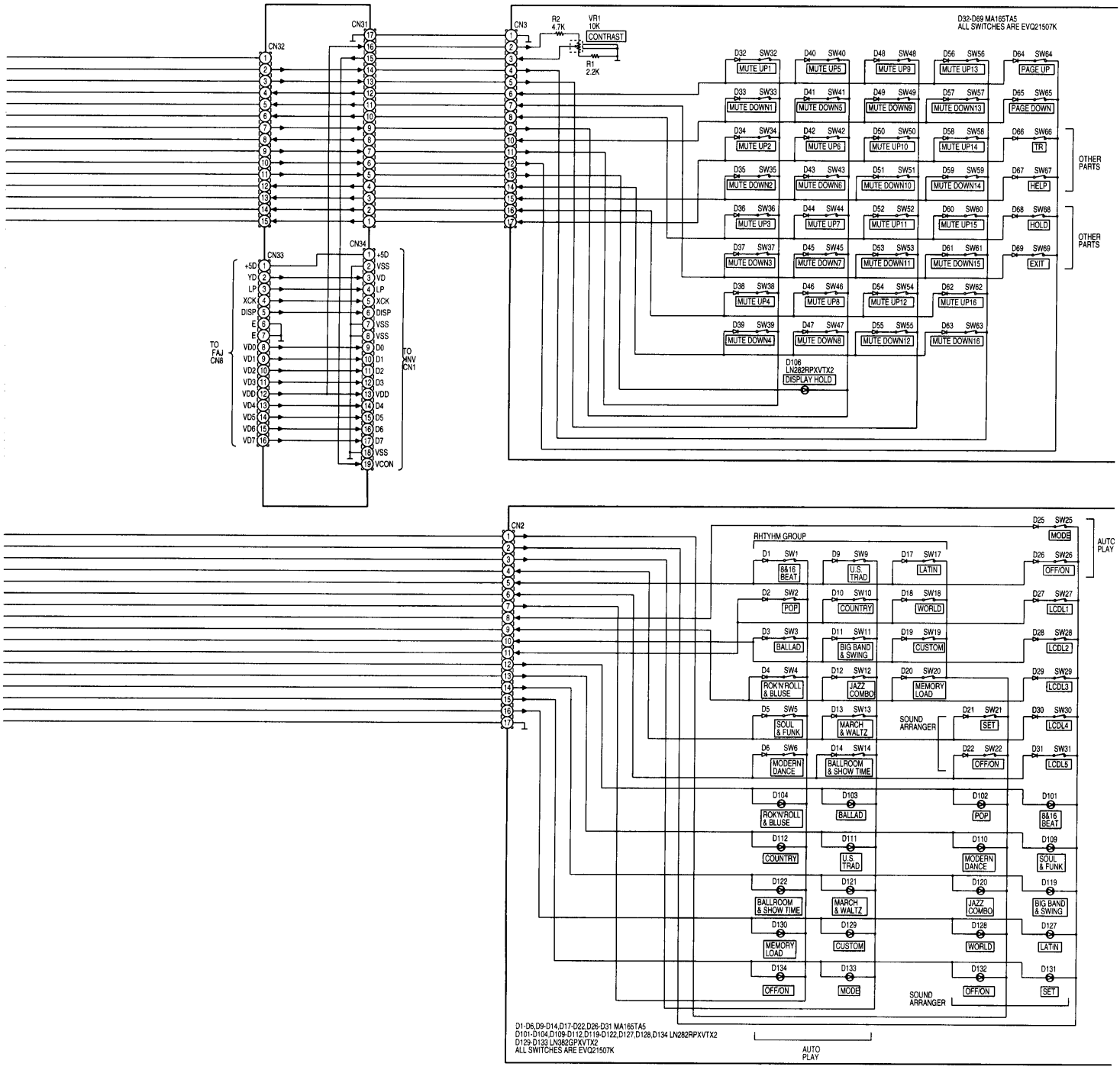
# E CPL CIRCUIT



## H CNB CIRCUIT

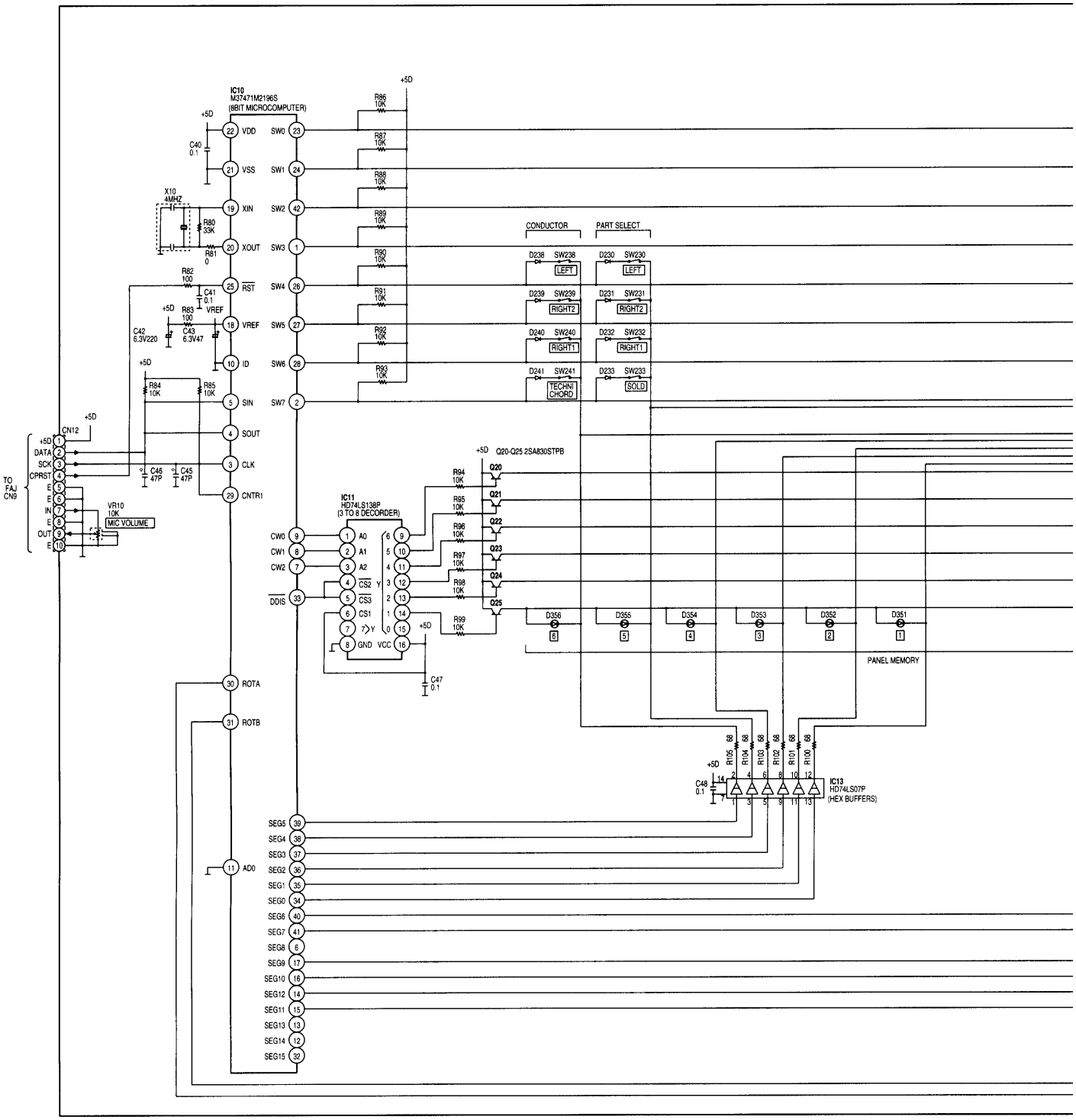


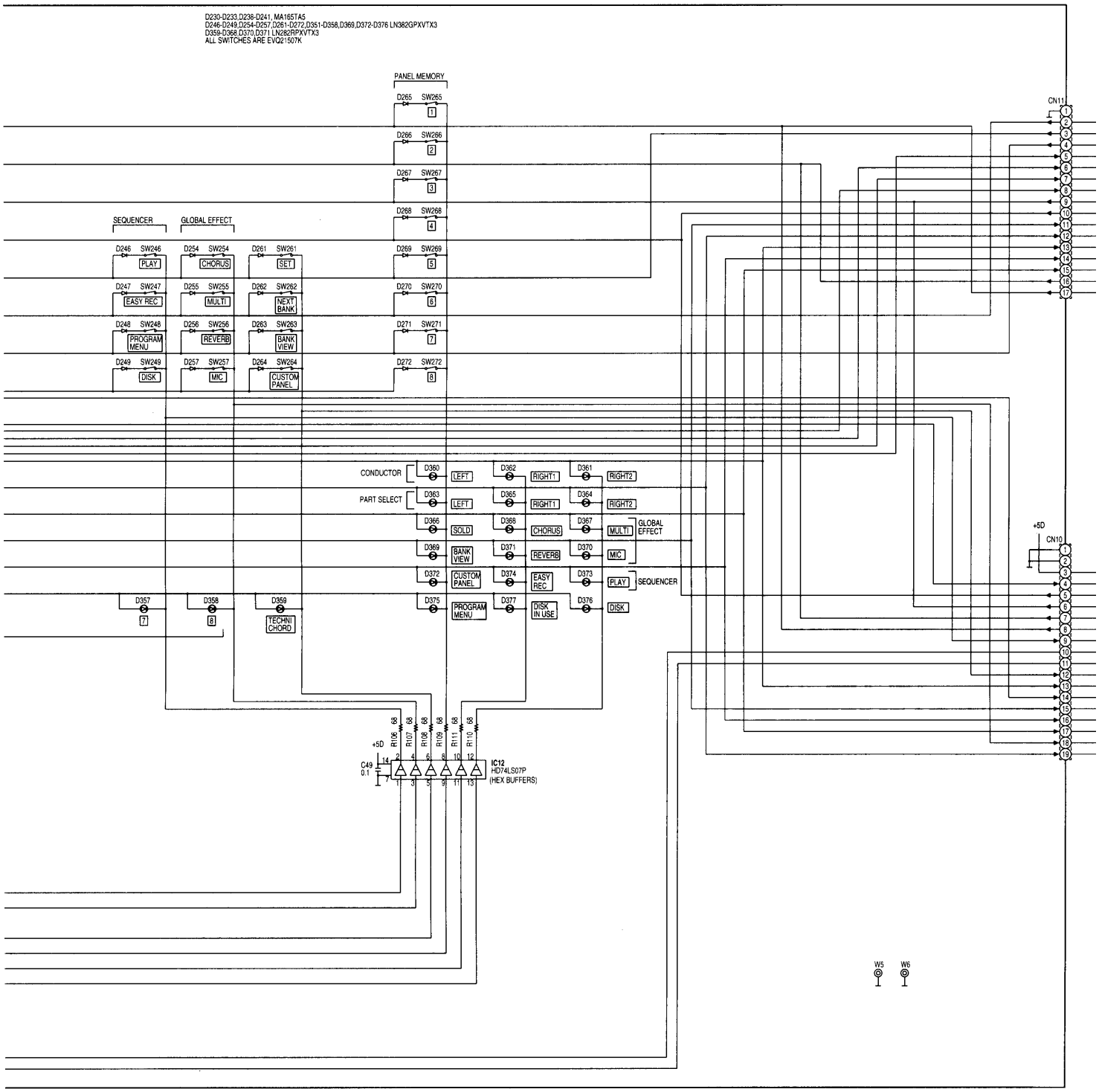

## N LCDC CIRCUIT



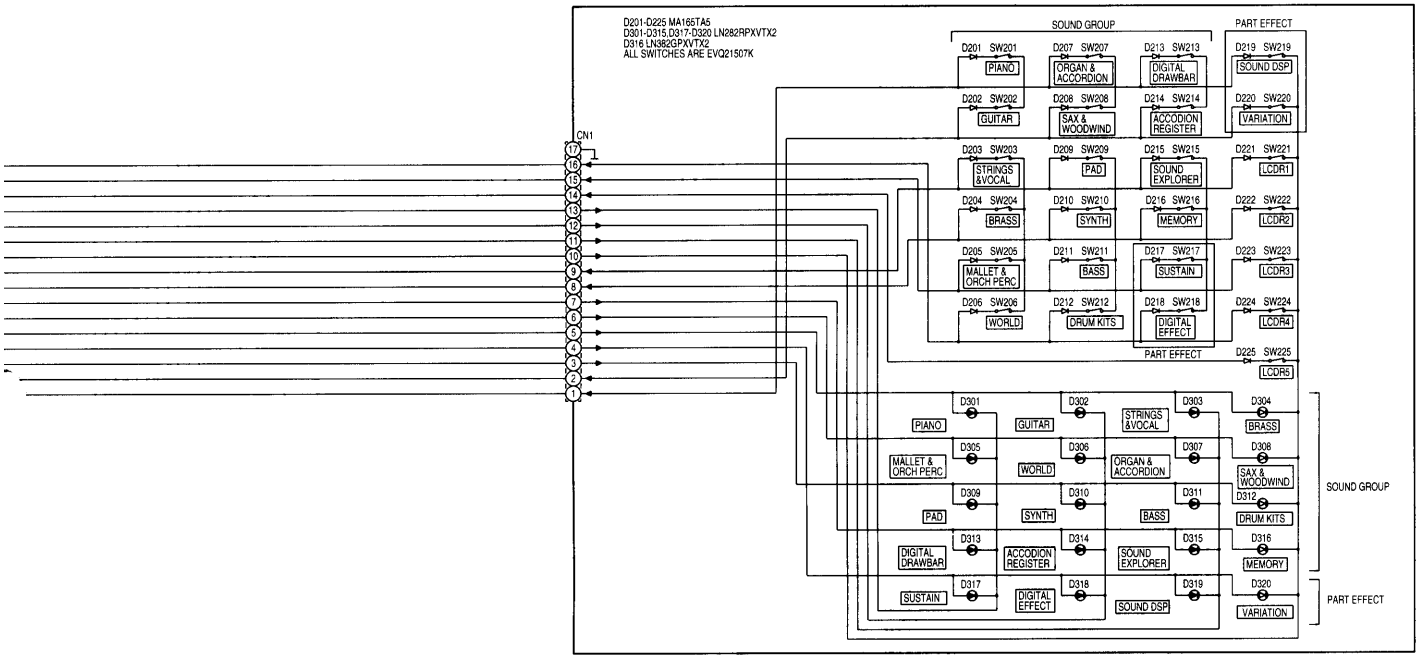

## L LCDL CIRCUIT

# G CPR CIRCUIT

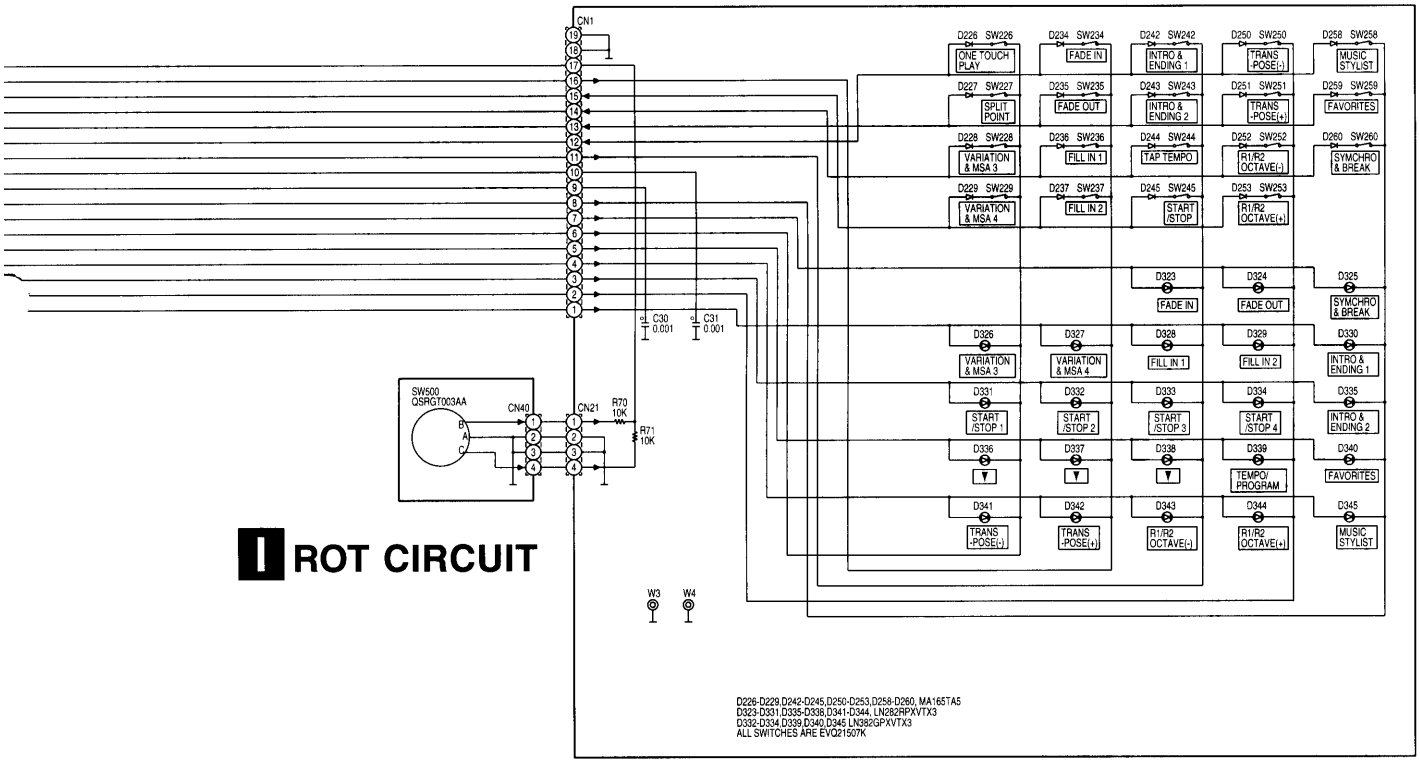



D230-D233,D236-D241, MA165TA5
D246-D249,D254-D257,D261-D272,D351-D358,D369,D372-D376 LN382GPXVTX3
D359-D368,D370,D371 LN282RPXVTX3
ALL SWITCHES ARE EVQ21507K
PANEL MEMORY
SEQUENCER
GLOBAL EFFECT
PLAY
EASY REC
PROGRAM MENU
DISK
CHORUS
MULTI
REVERB
MIC
SET
NEXT BANK
BANK VIEW
CUSTOM PANEL
CONDUCTOR
PART SELECT
LEFT
RIGHT1
RIGHT2
SOLO
CHORUS
MULTI
REVERB
MIC
BANK VIEW
CUSTOM PANEL
EASY REC
PLAY
PROGRAM MENU
DISK IN USE
DISK
GLOBAL EFFECT
SEQUENCER
TECHNI CHORD
CN11
CN10
+5D
C49
0.1
IC12
HD74LS07P
(HEX BUFFERS)
W5
W6

## M LCDR CIRCUIT

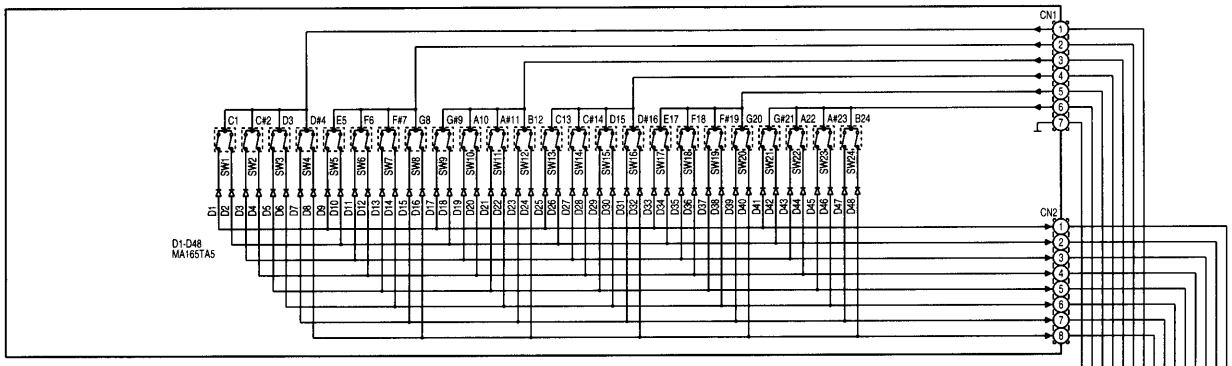



## I ROT CIRCUIT

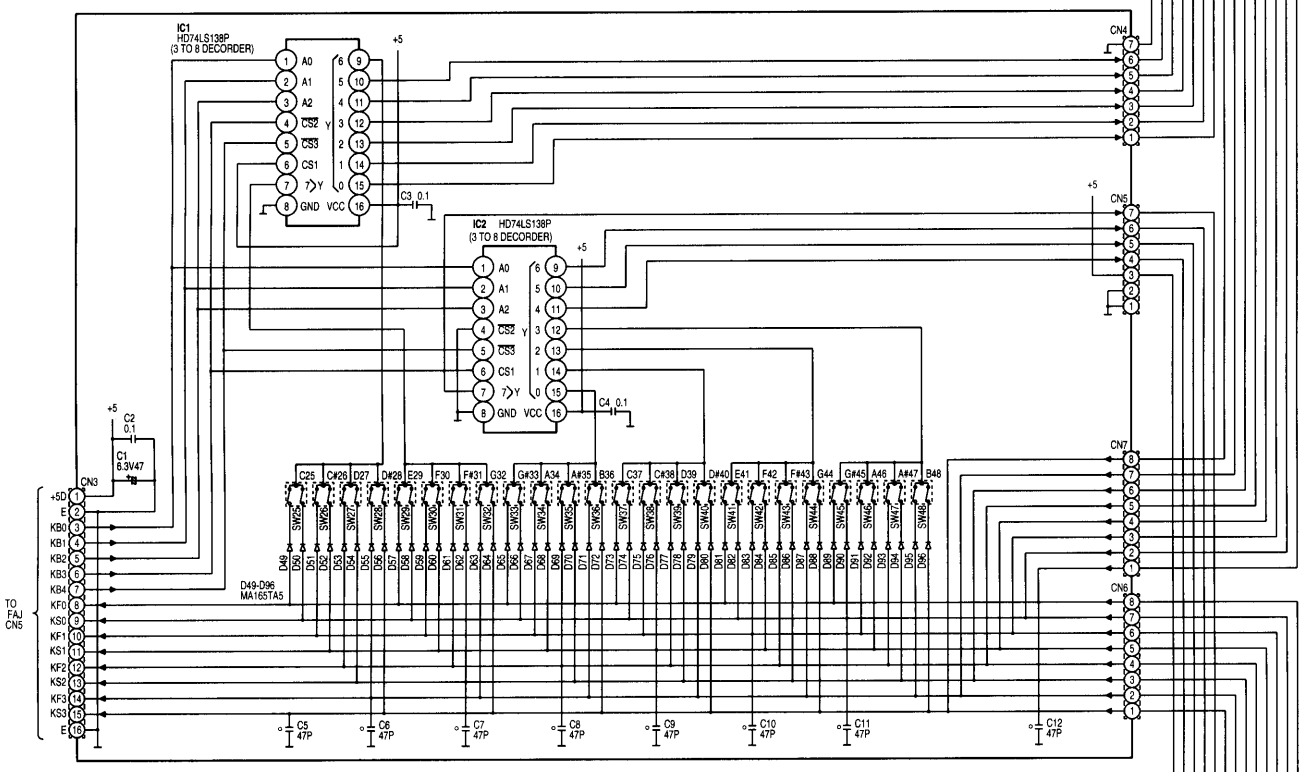



## F CPC CIRCUIT

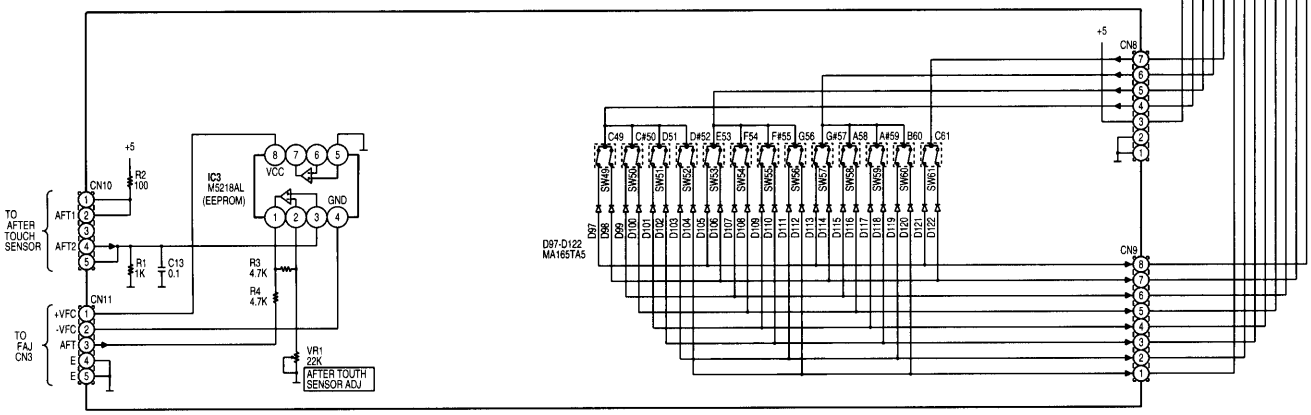
# Q MKB1 CIRCUIT



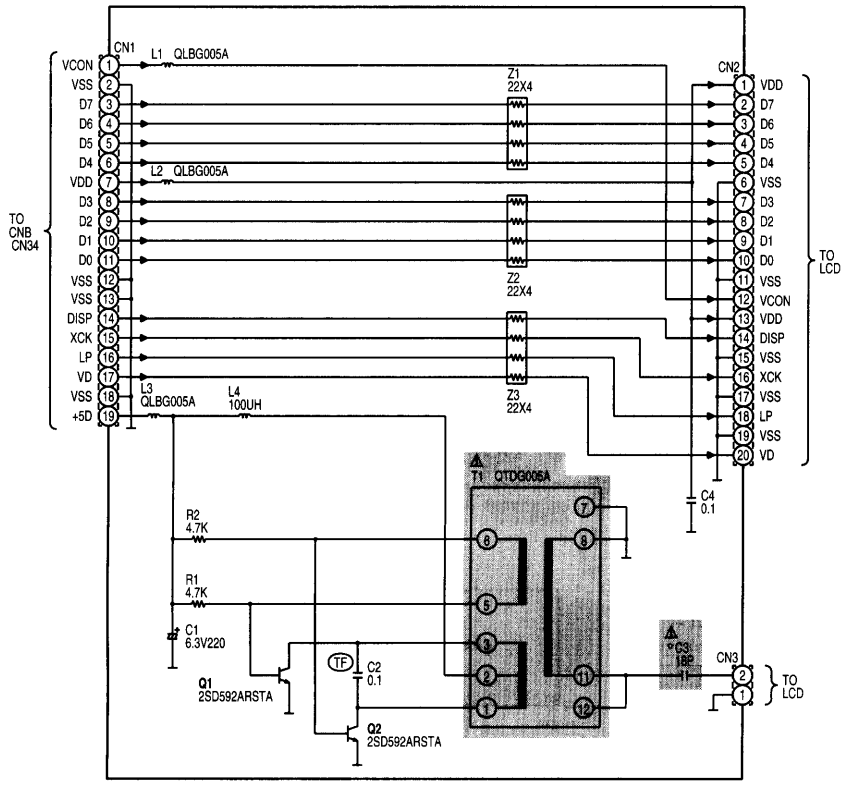

# R MKB2 CIRCUIT



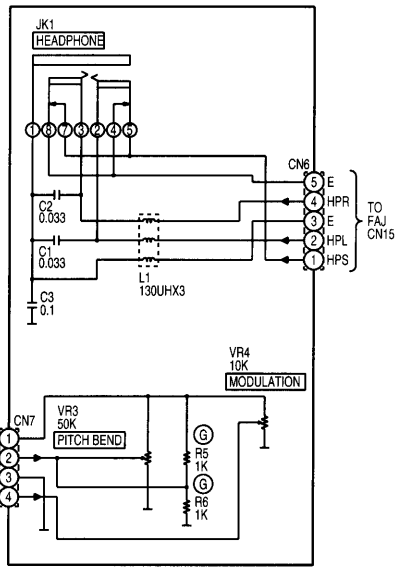

# S MKB3 CIRCUIT



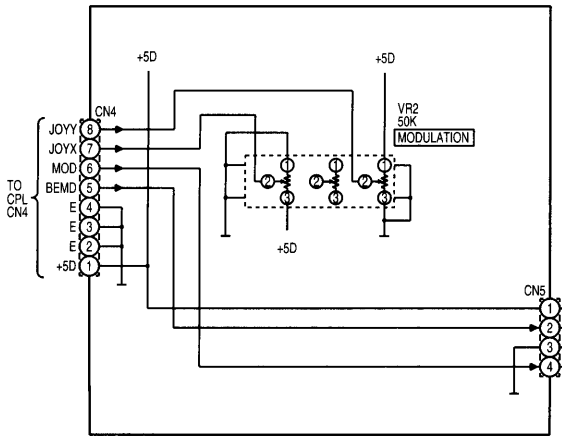
## K INV CIRCUIT




## O HB CIRCUIT

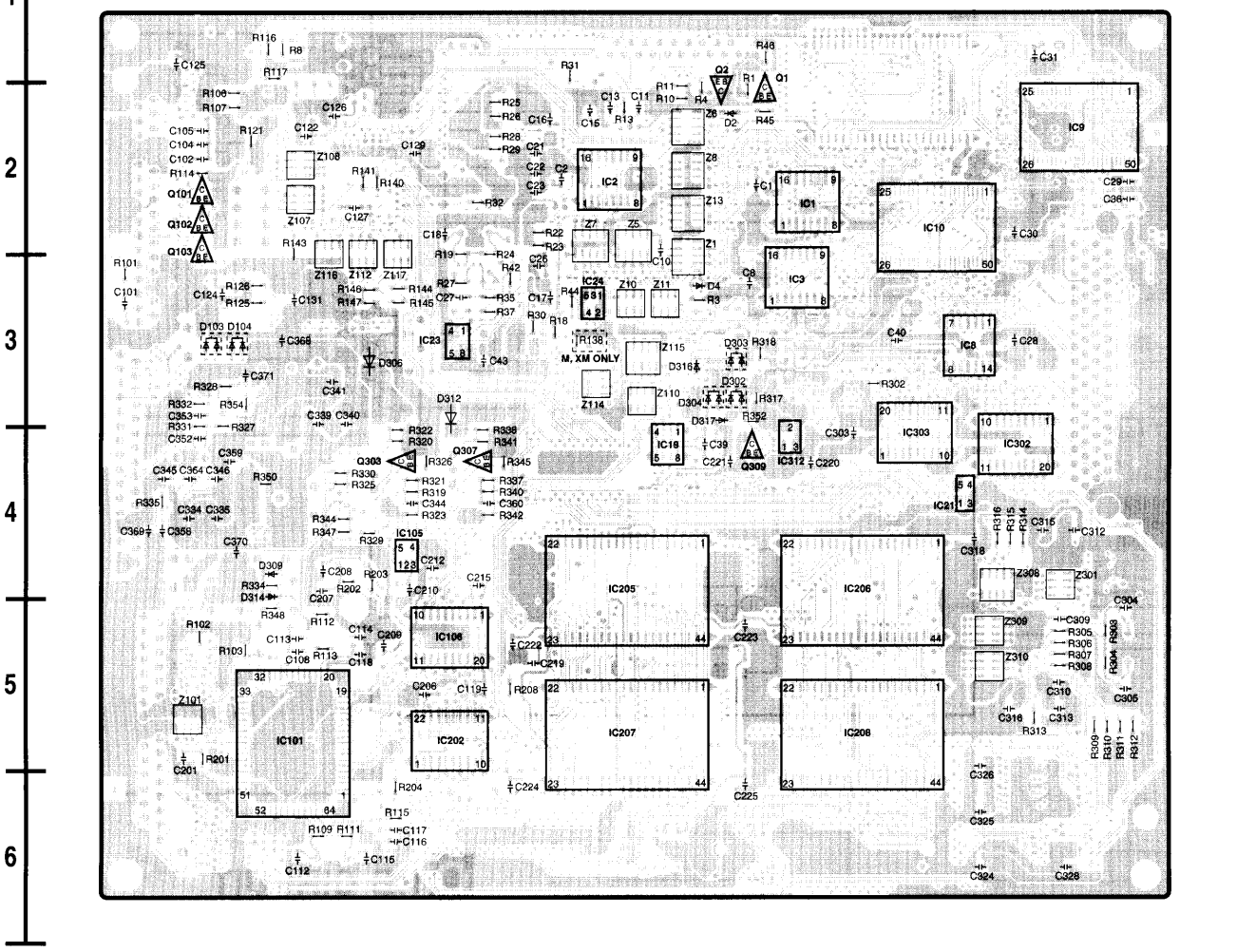



## P MB CIRCUIT

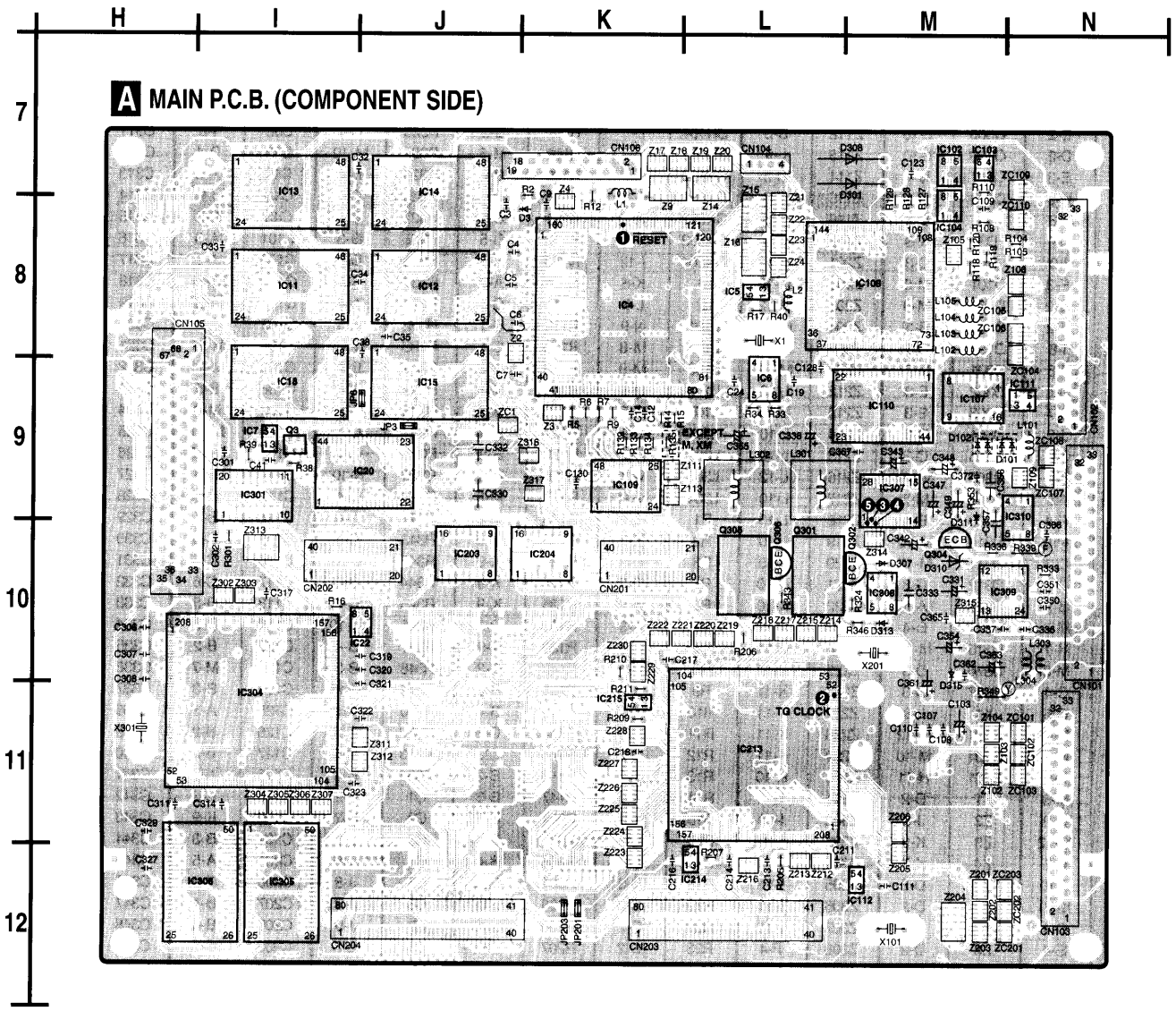


# 12 Printed Circuit Board

## A MAIN P.C.B. (FOIL SIDE)



## A MAIN P.C.B. (COMPONENT SIDE)

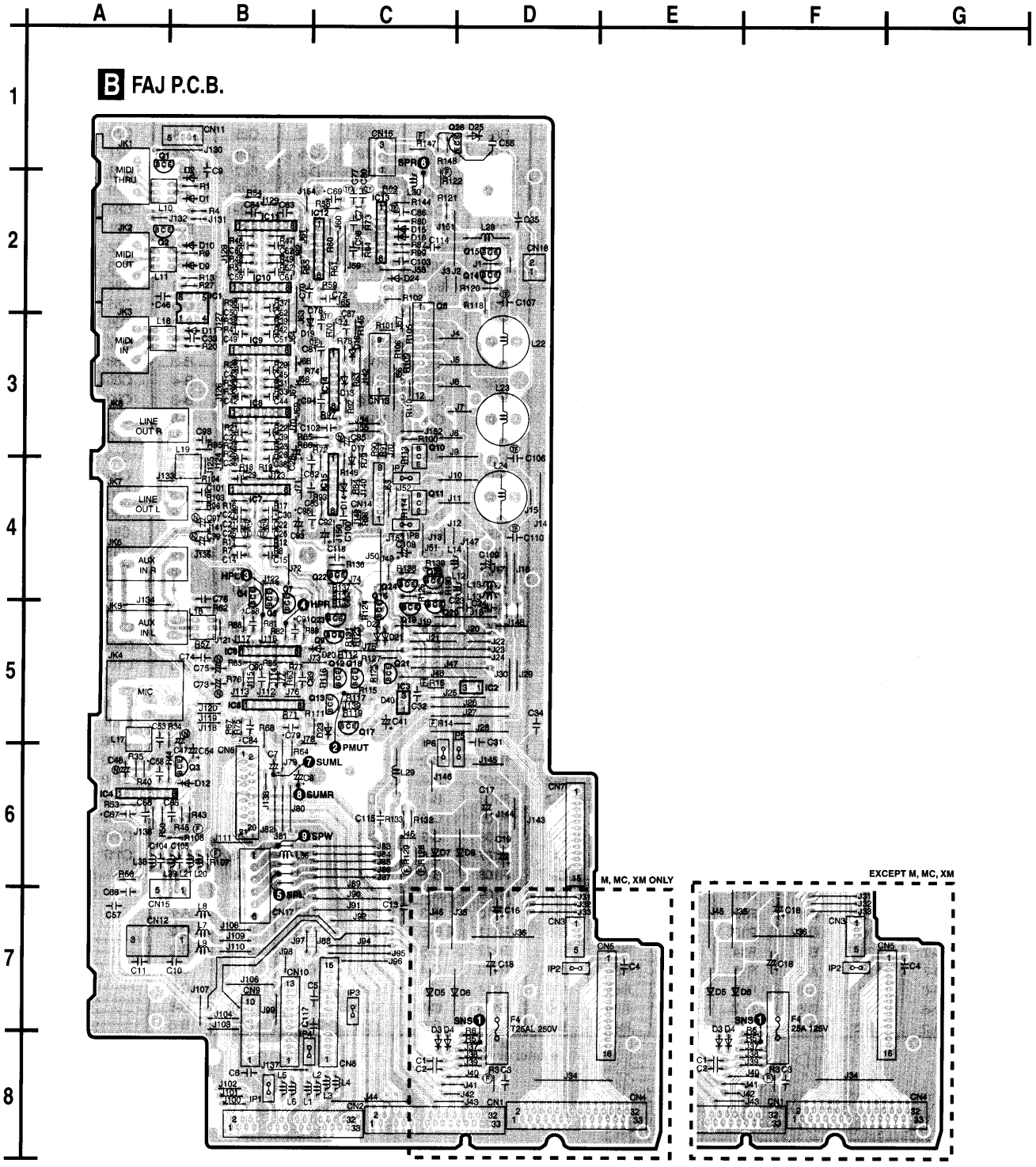


ELECTRICAL PARTS LOCATION

**A** MAIN P.C.B. (COMPONENT & FOIL SIDE)

| Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IC1 | E-2 | Q305 | L-10 | Z112 | B-3 | CN104 | L-7 | R107 | B-2 | R323 | C-4 | C38 | I-8 | C311 | H-11 |
| IC2 | D-2 | Q306 | L-10 | Z113 | L-9 | CN105 | H-8 | R108 | M-8 | R324 | M-10 | C39 | D-4 | C312 | G-4 |
| IC3 | E-3 | Q307 | C-4 | Z114 | D-3 | CN106 | K-7 | R109 | B-6 | R325 | B-4 | C40 | F-3 | C313 | F-5 |
| IC4 | K-8 | Q309 | E-4 | Z115 | D-3 | CN201 | K-10 | R110 | M-7 | R326 | C-4 | C41 | I-9 | C314 | I-11 |
| IC5 | L-8 | D2 | E-2 | Z116 | B-3 | CN202 | I-10 | R111 | B-6 | R327 | B-4 | C43 | C-3 | C315 | F-4 |
| IC6 | L-9 | D3 | K-8 | Z117 | C-3 | CN203 | K-12 | R112 | B-5 | R328 | B-3 | C101 | A-3 | C316 | F-5 |
| IC7 | I-9 | D4 | D-3 | Z201 | M-12 | CN204 | I-12 | R113 | B-5 | R329 | B-4 | C102 | A-2 | C317 | I-10 |
| IC8 | F-3 | D101 | M-9 | Z202 | M-12 | L1 | K-8 | R114 | A-2 | R330 | B-4 | C103 | M-11 | C318 | F-4 |
| IC9 | G-2 | D102 | M-9 | Z203 | M-12 | L2 | L-8 | R115 | C-6 | R331 | A-4 | C104 | A-2 | C319 | J-10 |
| IC10 | F-2 | D103 | B-3 | Z204 | M-12 | L101 | N-9 | R116 | B-1 | R332 | A-3 | C105 | A-2 | C320 | J-10 |
| IC11 | I-8 | D104 | B-3 | Z205 | M-12 | L102 | M-8 | R117 | B-1 | R333 | N-10 | C106 | M-11 | C321 | J-11 |
| IC12 | J-8 | D301 | M-7 | Z206 | M-11 | L103 | M-8 | R118 | M-8 | R334 | B-4 | C107 | M-11 | C322 | I-11 |
| IC13 | I-7 | D302 | E-3 | Z212 | L-12 | L104 | M-8 | R119 | M-8 | R335 | A-4 | C108 | B-5 | C323 | I-11 |
| IC14 | J-7 | D303 | E-3 | Z213 | L-12 | L105 | M-8 | R120 | M-8 | R336 | M-10 | C109 | M-8 | C324 | F-6 |
| IC15 | J-9 | D304 | D-3 | Z214 | L-10 | L301 | L-9 | R121 | B-2 | R337 | C-4 | C110 | M-11 | C325 | F-6 |
| IC18 | I-9 | D306 | C-3 | Z215 | L-10 | L302 | L-9 | R125 | B-3 | R338 | C-4 | C111 | M-12 | C326 | F-6 |
| IC19 | D-4 | D307 | M-10 | Z216 | L-12 | L303 | N-10 | R126 | B-3 | R339 | N-10 | C112 | B-6 | C327 | H-11 |
| IC20 | I-9 | D308 | M-7 | Z217 | L-10 | L304 | N-11 | R127 | M-8 | R340 | C-4 | C113 | B-5 | C328 | G-6 |
| IC21 | F-4 | D309 | B-4 | Z218 | L-10 | R1 | E-2 | R128 | M-8 | R341 | C-4 | C114 | B-5 | C329 | H-11 |
| IC22 | I-10 | D310 | M-10 | Z219 | L-10 | R2 | K-7 | R129 | M-8 | R342 | C-4 | C115 | C-6 | C330 | J-9 |
| IC23 | C-3 | D311 | M-10 | Z220 | L-10 | R3 | D-3 | R133 | K-9 | R343 | L-10 | C116 | C-6 | C331 | M-10 |
| IC24 | D-3 | D312 | C-3 | Z221 | K-10 | R4 | D-2 | R134 | K-9 | R344 | B-4 | C117 | C-6 | C332 | J-9 |
| IC101 | B-5 | D313 | M-10 | Z222 | K-10 | R5 | K-9 | R135 | K-9 | R345 | C-4 | C118 | B-5 | C333 | M-10 |
| IC102 | M-7 | D314 | B-4 | Z223 | K-12 | R6 | K-9 | R138 | D-3 | R346 | M-10 | C119 | B-5 | C334 | A-4 |
| IC103 | M-7 | D315 | M-11 | Z224 | K-11 | R7 | K-9 | R139 | K-9 | R347 | B-4 | C122 | B-2 | C335 | B-4 |
| IC104 | M-8 | D316 | D-3 | Z225 | K-11 | R8 | B-1 | R140 | C-2 | R348 | B-5 | C123 | M-7 | C336 | N-10 |
| IC105 | C-4 | D317 | D-3 | Z226 | K-11 | R9 | K-9 | R141 | B-2 | R349 | M-11 | C124 | B-3 | C337 | M-10 |
| IC106 | C-5 | X1 | L-8 | Z227 | K-11 | R10 | D-2 | R143 | B-2 | R350 | B-4 | C125 | A-1 | C338 | L-9 |
| IC107 | M-9 | X101 | M-12 | Z228 | K-11 | R11 | D-2 | R144 | C-3 | R352 | E-3 | C126 | B-2 | C339 | B-3 |
| IC108 | M-8 | X201 | M-10 | Z229 | K-11 | R12 | D-8 | R145 | C-3 | R353 | M-9 | C127 | B-2 | C340 | B-3 |
| IC109 | K-9 | X301 | H-11 | Z230 | K-10 | R13 | D-2 | R146 | B-3 | R354 | B-3 | C128 | L-9 | C341 | B-3 |
| IC110 | M-9 | Z1 | D-2 | Z301 | G-4 | R14 | K-9 | R147 | B-3 | C1 | E-2 | C129 | C-2 | C342 | M-10 |
| IC111 | N-9 | Z2 | J-8 | Z302 | I-10 | R15 | L-9 | R201 | B-5 | C2 | D-2 | C130 | K-9 | C343 | M-9 |
| IC112 | M-12 | Z3 | K-9 | Z303 | I-10 | R16 | I-10 | R202 | B-4 | C3 | J-8 | C131 | B-3 | C344 | C-4 |
| IC202 | C-5 | Z4 | K-7 | Z304 | I-11 | R17 | L-8 | R203 | B-4 | C4 | J-8 | C201 | A-5 | C345 | A-4 |
| IC203 | J-10 | Z5 | D-2 | Z305 | I-11 | R18 | D-3 | R204 | C-6 | C5 | J-8 | C206 | C-5 | C346 | B-4 |
| IC204 | K-10 | Z6 | D-2 | Z306 | I-11 | R19 | C-2 | R205 | L-12 | C6 | J-8 | C207 | B-4 | C347 | M-9 |
| IC205 | D-4 | Z7 | D-2 | Z307 | I-11 | R22 | D-2 | R206 | L-10 | C7 | J-9 | C208 | B-4 | C348 | M-9 |
| IC206 | E-4 | Z8 | D-2 | Z308 | F-4 | R23 | D-2 | R207 | L-12 | C8 | E-3 | C209 | C-5 | C349 | M-9 |
| IC207 | D-5 | Z9 | K-8 | Z309 | F-5 | R24 | C-2 | R208 | C-5 | C9 | K-7 | C210 | C-4 | C350 | N-10 |
| IC208 | E-5 | Z10 | D-3 | Z310 | F-5 | R25 | C-2 | R209 | K-11 | C10 | D-3 | C211 | L-12 | C351 | N-10 |
| IC213 | L-11 | Z11 | D-3 | Z311 | J-11 | R26 | C-2 | R210 | K-10 | C11 | D-2 | C212 | C-4 | C352 | A-4 |
| IC214 | L-12 | Z13 | D-2 | Z312 | J-11 | R27 | C-3 | R211 | K-11 | C12 | K-9 | C213 | L-12 | C353 | A-3 |
| IC215 | K-11 | Z14 | L-8 | Z313 | I-10 | R28 | C-2 | R301 | I-10 | C13 | D-2 | C214 | L-12 | C354 | M-10 |
| IC301 | I-9 | Z15 | L-7 | Z314 | M-10 | R29 | C-2 | R302 | F-3 | C14 | K-9 | C215 | C-4 | C355 | L-9 |
| IC302 | F-4 | Z16 | L-8 | Z315 | M-10 | R30 | C-3 | R303 | G-5 | C15 | D-2 | C216 | K-12 | C356 | M-9 |
| IC303 | F-4 | Z17 | K-7 | Z316 | K-9 | R31 | D-1 | R304 | G-5 | C16 | C-2 | C217 | L-10 | C357 | M-10 |
| IC304 | I-11 | Z18 | K-7 | Z317 | K-9 | R32 | C-2 | R305 | G-5 | C17 | C-3 | C218 | K-11 | C358 | A-4 |
| IC305 | I-12 | Z19 | L-7 | ZC1 | J-9 | R33 | L-9 | R306 | G-5 | C18 | C-2 | C219 | C-5 | C359 | B-4 |
| IC306 | I-12 | Z20 | L-7 | ZC101 | N-11 | R34 | L-9 | R307 | G-5 | C19 | L-9 | C220 | E-4 | C360 | C-4 |
| IC307 | M-9 | Z21 | L-8 | ZC102 | N-11 | R35 | C-3 | R308 | G-5 | C21 | C-2 | C221 | D-4 | C361 | M-11 |
| IC308 | M-10 | Z22 | L-8 | ZC103 | N-11 | R37 | C-3 | R309 | G-5 | C22 | C-2 | C222 | C-5 | C362 | M-10 |
| IC309 | M-10 | Z23 | L-8 | ZC104 | N-8 | R38 | I-9 | R310 | G-5 | C23 | C-2 | C223 | E-5 | C363 | M-10 |
| IC310 | N-9 | Z24 | L-8 | ZC105 | M-8 | R39 | I-9 | R311 | G-5 | C24 | L-9 | C224 | C-6 | C364 | A-4 |
| IC312 | E-4 | Z101 | A-5 | ZC106 | M-8 | R40 | L-8 | R312 | G-5 | C26 | C-3 | C225 | E-6 | C365 | M-10 |
| Q1 | E-2 | Z102 | M-11 | ZC107 | N-9 | R42 | C-3 | R313 | F-5 | C27 | C-3 | C301 | I-9 | C366 | N-10 |
| Q2 | E-1 | Z103 | M-11 | ZC108 | N-9 | R44 | D-3 | R314 | F-4 | C28 | F-3 | C302 | I-10 | C367 | L-9 |
| Q3 | I-9 | Z104 | M-11 | ZC109 | N-7 | R45 | E-2 | R315 | F-4 | C29 | G-2 | C303 | E-4 | C368 | B-3 |
| Q101 | A-2 | Z105 | M-8 | ZC110 | N-9 | R46 | E-1 | R316 | F-4 | C30 | F-2 | C304 | G-5 | C369 | A-4 |
| Q102 | A-2 | Z106 | N-8 | ZC201 | N-12 | R101 | A-3 | R317 | E-3 | C31 | F-1 | C305 | G-5 | C370 | B-4 |
| Q103 | A-2 | Z107 | B-2 | ZC202 | M-12 | R102 | B-5 | R318 | E-3 | C32 | I-7 | C306 | H-10 | C371 | B-3 |
| Q301 | L-10 | Z108 | B-2 | ZC203 | M-12 | R103 | B-5 | R319 | C-4 | C33 | I-8 | C307 | H-10 | C372 | M-9 |
| Q302 | M-10 | Z109 | N-9 | CN101 | N-11 | R104 | N-8 | R320 | C-4 | C34 | I-8 | C308 | H-10 | | |
| Q303 | B-4 | Z110 | D-3 | CN102 | N-9 | R105 | N-8 | R321 | C-4 | C35 | J-8 | C309 | G-5 | | |
| Q304 | M-10 | Z111 | L-9 | CN103 | N-12 | R106 | B-2 | R322 | C-4 | C36 | G-2 | C310 | F-5 | | |

## B FAJ P.C.B.



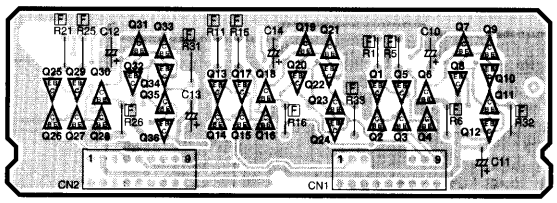
ELECTRICAL PARTS LOCATION

| Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B** FAJ P.C.B. | | | | | | | | | | | | | | | |
| IC1 | B-2 | D10 | B-2 | CN3 | D-7 | R19 | B-4 | R68 | B-5 | R117 | C-5 | C24 | D-5 | C75 | B-5 |
| IC2 | D-5 | D11 | B-3 | CN4 | E-8 | R20 | B-3 | R69 | C-2 | R118 | D-2 | C25 | B-4 | C76 | B-5 |
| IC3 | C-5 | D12 | B-6 | CN5 | E-7 | R21 | B-3 | R70 | C-3 | R119 | C-5 | C26 | B-4 | C77 | C-2 |
| IC4 | A-6 | D13 | C-3 | CN6 | B-6 | R22 | B-3 | R71 | B-5 | R120 | D-2 | C27 | B-4 | C78 | C-3 |
| IC5 | B-5 | D14 | C-4 | CN7 | D-6 | R23 | B-3 | R72 | C-3 | R121 | C-2 | C28 | B-4 | C79 | B-5 |
| IC6 | B-5 | D15 | C-2 | CN8 | C-7 | R24 | B-3 | R73 | C-2 | R122 | C-2 | C29 | B-4 | C80 | C-2 |
| IC7 | B-4 | D16 | C-3 | CN9 | B-7 | R25 | B-3 | R74 | C-3 | R123 | C-5 | C30 | B-4 | C81 | C-3 |
| IC8 | B-3 | D17 | C-3 | CN10 | B-7 | R26 | B-3 | R75 | B-5 | R124 | C-5 | C31 | D-5 | C82 | C-4 |
| IC9 | B-3 | D18 | C-2 | CN11 | B-1 | R27 | B-2 | R76 | B-5 | R125 | C-5 | C32 | C-5 | C83 | C-4 |
| IC10 | B-2 | D19 | C-3 | CN12 | A-7 | R28 | B-3 | R77 | B-5 | R126 | C-4 | C33 | B-3 | C84 | B-5 |
| IC11 | B-2 | D20 | C-5 | CN13 | C-3 | R29 | B-3 | R78 | C-3 | R127 | C-5 | C34 | D-5 | C85 | C-3 |
| IC12 | C-2 | D21 | C-5 | CN14 | C-4 | R30 | B-3 | R79 | C-4 | R128 | C-6 | C35 | D-2 | C86 | C-2 |
| IC13 | C-2 | D22 | C-5 | CN15 | A-7 | R31 | B-3 | R80 | C-2 | R129 | C-6 | C36 | B-4 | C87 | C-3 |
| IC14 | C-3 | D23 | C-5 | CN16 | C-1 | R32 | B-3 | R81 | B-5 | R130 | C-4 | C37 | B-3 | C88 | B-5 |
| IC15 | C-4 | D24 | C-2 | CN17 | B-7 | R33 | B-3 | R82 | B-5 | R131 | C-5 | C38 | B-4 | C89 | B-5 |
| Q1 | A-1 | D25 | D-1 | CN18 | D-2 | R34 | B-5 | R83 | C-3 | R132 | C-6 | C39 | B-3 | C90 | B-5 |
| Q2 | A-2 | D40 | C-5 | JK1 | A-1 | R35 | A-6 | R84 | C-4 | R133 | C-6 | C41 | C-5 | C91 | B-5 |
| Q3 | B-6 | L1 | C-8 | JK2 | A-2 | R36 | B-2 | R85 | B-5 | R134 | C-4 | C42 | B-3 | C92 | C-4 |
| Q4 | B-5 | L2 | C-8 | JK3 | A-3 | R37 | B-2 | R86 | B-5 | R135 | C-5 | C43 | B-3 | C93 | B-4 |
| Q5 | B-5 | L3 | C-8 | JK4 | A-5 | R38 | B-3 | R87 | C-2 | R136 | C-4 | C44 | B-3 | C94 | C-3 |
| Q7 | B-5 | L4 | C-8 | JK5 | A-5 | R39 | B-3 | R88 | B-5 | R137 | C-4 | C45 | B-3 | C95 | C-4 |
| Q8 | C-2 | L5 | B-8 | JK6 | A-4 | R40 | A-6 | R89 | B-5 | R138 | C-4 | C46 | A-2 | C96 | C-2 |
| Q9 | C-5 | L6 | B-8 | JK7 | A-4 | R41 | B-3 | R90 | C-3 | R139 | C-4 | C47 | B-6 | C97 | B-4 |
| Q10 | C-3 | L7 | B-7 | JK8 | A-3 | R42 | B-3 | R91 | C-3 | R144 | C-2 | C48 | A-6 | C98 | B-3 |
| Q11 | C-4 | L8 | B-7 | IP1 | B-8 | R43 | B-6 | R92 | C-3 | R145 | C-3 | C49 | B-3 | C99 | B-4 |
| Q12 | C-5 | L9 | B-7 | IP2 | D-7 | R44 | A-6 | R93 | C-4 | R146 | C-4 | C50 | B-2 | C100 | C-4 |
| Q13 | C-5 | L10 | A-2 | IP3 | C-7 | R45 | B-6 | R94 | C-2 | R147 | C-1 | C51 | B-3 | C101 | B-4 |
| Q14 | D-2 | L11 | A-2 | IP4 | C-8 | R46 | B-2 | R95 | B-3 | R148 | C-1 | C52 | B-2 | C102 | C-3 |
| Q15 | D-2 | L12 | D-4 | IP5 | D-6 | R47 | B-2 | R96 | B-4 | C1 | C-8 | C53 | A-5 | C103 | C-2 |
| Q16 | C-5 | L13 | D-4 | IP6 | C-6 | R48 | B-2 | R97 | C-3 | C2 | C-8 | C54 | B-6 | C104 | A-6 |
| Q17 | C-5 | L14 | D-4 | IP7 | C-4 | R49 | B-2 | R98 | C-4 | C3 | D-8 | C55 | D-1 | C105 | B-6 |
| Q18 | C-5 | L15 | D-4 | IP8 | C-4 | R50 | A-6 | R99 | C-2 | C4 | E-7 | C57 | A-7 | C106 | D-4 |
| Q19 | C-5 | L16 | A-2 | F4 | D-7 | R51 | B-2 | R100 | C-3 | C5 | C-7 | C58 | A-6 | C107 | D-2 |
| Q20 | C-5 | L17 | A-5 | R1 | B-2 | R52 | B-2 | R101 | C-3 | C6 | B-8 | C59 | B-2 | C108 | C-4 |
| Q21 | C-5 | L18 | B-5 | R3 | D-8 | R53 | A-6 | R102 | C-2 | C7 | B-6 | C60 | B-2 | C109 | D-4 |
| Q22 | C-4 | L19 | B-4 | R4 | B-2 | R54 | B-2 | R103 | B-4 | C8 | B-6 | C61 | B-2 | C110 | D-4 |
| Q23 | C-5 | L20 | B-6 | R5 | D-8 | R55 | B-2 | R104 | B-4 | C9 | B-2 | C62 | B-2 | C114 | C-2 |
| Q24 | C-4 | L21 | B-6 | R6 | D-8 | R56 | A-6 | R105 | C-3 | C10 | B-7 | C63 | B-2 | C115 | C-6 |
| Q25 | C-4 | L22 | D-3 | R7 | B-4 | R57 | B-5 | R106 | C-3 | C11 | A-7 | C64 | B-2 | C116 | C-4 |
| Q26 | C-1 | L23 | D-3 | R8 | B-4 | R58 | C-2 | R107 | B-6 | C13 | C-7 | C65 | B-6 | C117 | C-7 |
| D1 | B-2 | L24 | D-4 | R9 | B-2 | R59 | C-2 | R108 | B-6 | C14 | B-4 | C66 | A-6 | | |
| D2 | B-2 | L28 | D-2 | R11 | B-4 | R60 | C-2 | R109 | C-3 | C15 | B-4 | C67 | A-6 | | |
| D3 | C-8 | L29 | C-6 | R12 | B-4 | R61 | C-2 | R110 | C-3 | C16 | D-7 | C68 | A-7 | | |
| D4 | C-8 | L30 | C-2 | R13 | B-2 | R62 | B-5 | R111 | C-5 | C17 | D-6 | C69 | C-2 | | |
| D5 | C-7 | L36 | B-6 | R14 | C-5 | R63 | B-5 | R112 | C-5 | C18 | D-7 | C70 | B-2 | | |
| D6 | D-7 | L38 | A-6 | R15 | C-5 | R64 | B-6 | R113 | C-4 | C19 | D-6 | C71 | C-2 | | |
| D7 | C-6 | L39 | B-6 | R16 | B-4 | R65 | C-3 | R114 | C-4 | C21 | B-4 | C72 | C-2 | | |
| D8 | D-6 | CN1 | D-8 | R17 | B-4 | R66 | C-3 | R115 | C-5 | C22 | B-4 | C73 | B-5 | | |
| D9 | B-2 | CN2 | B-8 | R18 | B-4 | R67 | B-5 | R116 | C-5 | C23 | D-5 | C74 | B-5 | | |

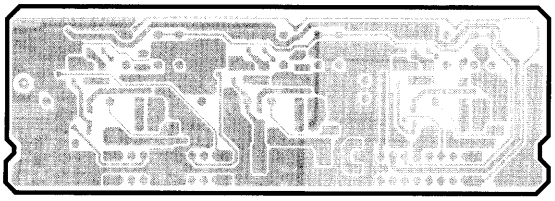
A B C D E F G

1 2 3 4 5 6 7 8

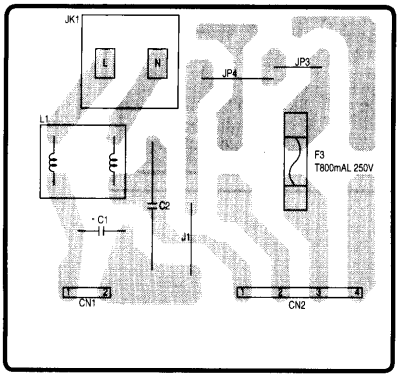
## C ASUB P.C.B. (COMPONENT SIDE)



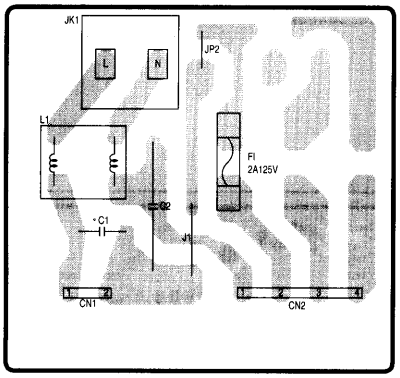

## C ASUB P.C.B. (FOIL SIDE)



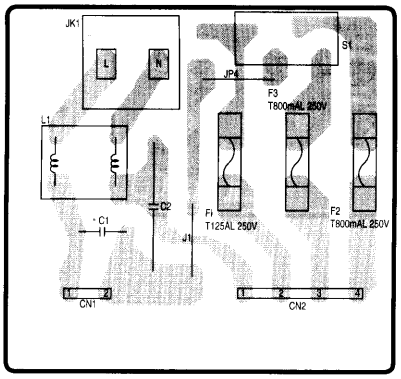
## D ACP P.C.B. (EN,EZ,EK,EW,EF,EA, EP,EH,XL,XR,XP,XW)




## D ACP P.C.B. (M,MC,XM)




## D ACP P.C.B. (X,XS,XD,XT,XA)



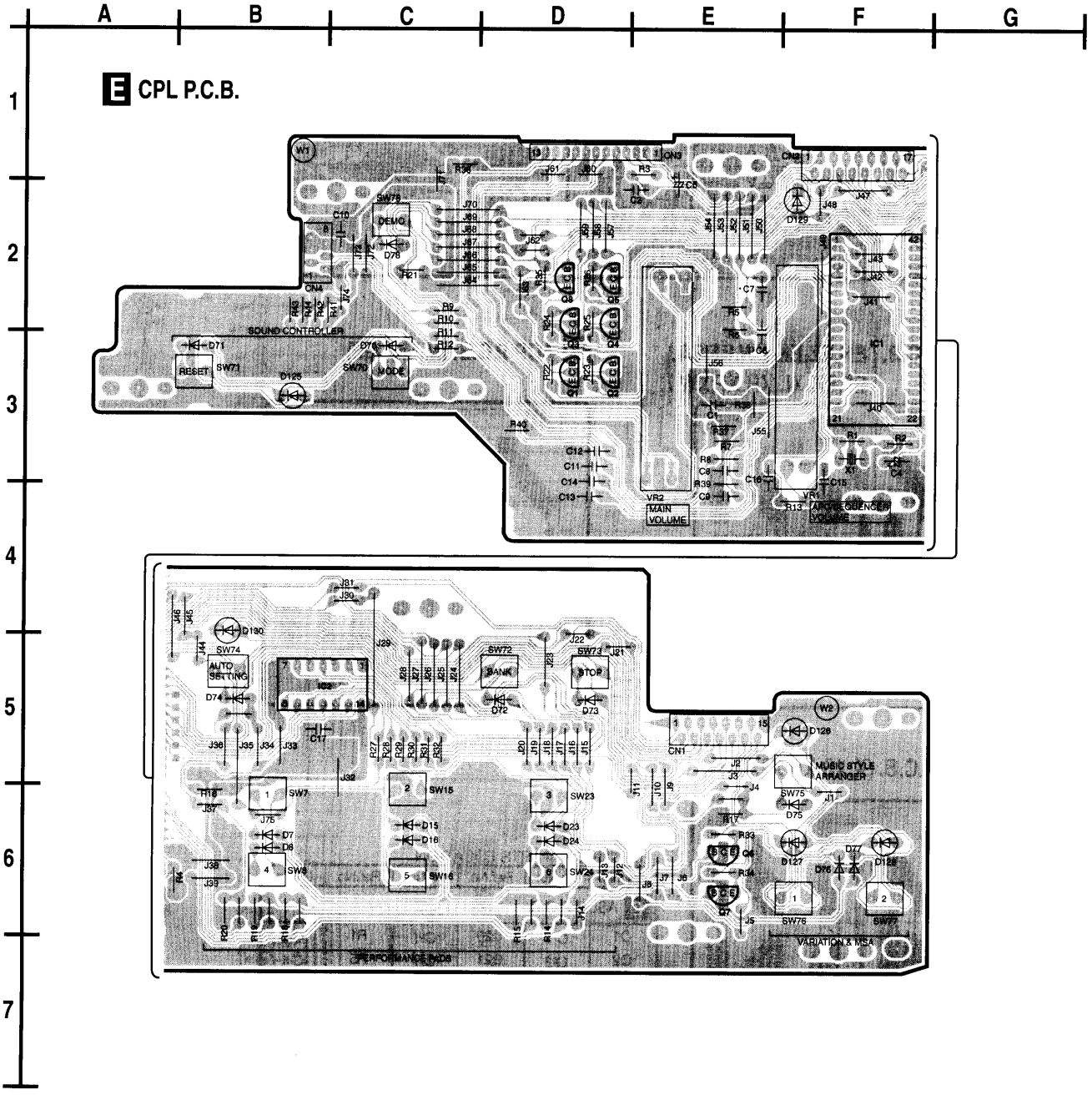

ELECTRICAL PARTS LOCATION

| Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|---|---|---|---|---|---|
| C ASUB P.C.B. | | | | | |
| Q1 | C-1 | Q20 | C-1 | R1 | C-1 |
| Q2 | C-2 | Q21 | C-1 | R5 | C-1 |
| Q3 | C-2 | Q22 | C-2 | R6 | C-2 |
| Q4 | C-2 | Q23 | C-2 | R11 | B-1 |
| Q5 | C-1 | Q24 | C-2 | R15 | B-1 |
| Q6 | C-1 | Q25 | A-1 | R16 | C-2 |
| Q7 | D-1 | Q26 | A-2 | R21 | A-1 |
| Q8 | C-1 | Q27 | A-2 | R25 | A-1 |
| Q9 | D-1 | Q28 | B-2 | R26 | B-2 |
| Q10 | D-2 | Q29 | A-1 | R31 | B-1 |
| Q11 | D-2 | Q30 | B-1 | R32 | D-2 |
| Q12 | D-2 | Q31 | B-1 | R33 | C-2 |
| Q13 | B-1 | Q32 | B-1 | C10 | C-1 |
| Q14 | B-2 | Q33 | B-1 | C11 | D-2 |
| Q15 | B-2 | Q34 | B-2 | C12 | B-1 |
| Q16 | B-2 | Q35 | B-2 | C13 | B-2 |
| Q17 | B-1 | Q36 | B-2 | C14 | B-1 |
| Q18 | B-1 | CN1 | C-2 | | |
| Q19 | C-1 | CN2 | A-2 | | |

ELECTRICAL PARTS LOCATION

| Ref.No. | Lo.No. |
|---|---|
| D ACP P.C.B. | |
| L1 | A-6 |
| CN1 | A-7 |
| CN2 | C-7 |
| JK1 | A-6 |
| F1 | B-7 |
| F2 | C-7 |
| F3 | B-6 |
| C1 | B-7 |
| C2 | B-7 |
| S1 | C-6 |

## E CPL P.C.B.


A
B
C
D
E
F
G
1
2
3
4
5
6
7
SOUND CONTROLLER
RESET
SW71
MODE
SW79
DEMO
SW78
MAIN VOLUME
VR2
VR1
MUSIC STYLE ARRANGER VOLUME
AUTO SETTING
SW74
BANK
SW72
STOP
SW73
MUSIC STYLE ARRANGER
VARIATION & MSA
PERFORMANCE PADS

ELECTRICAL PARTS LOCATION

| Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **E** CPL P.C.B. | | | | | | | | | | | | | | | |
| IC1 | F-3 | D24 | D-6 | D130 | B-4 | R9 | C-2 | R24 | D-2 | R39 | E-3 | C11 | D-3 | SW72 | D-5 |
| IC2 | B-5 | D70 | C-3 | CN1 | E-5 | R10 | C-2 | R25 | D-2 | R40 | D-3 | C12 | D-3 | SW73 | D-5 |
| Q1 | D-3 | D71 | B-3 | CN2 | F-1 | R11 | C-3 | R26 | C-5 | R41 | C-2 | C13 | D-4 | SW74 | B-5 |
| Q2 | D-3 | D72 | D-5 | CN3 | E-1 | R12 | C-3 | R27 | C-5 | R42 | B-2 | C14 | D-3 | SW75 | F-6 |
| Q3 | D-3 | D73 | D-5 | CN4 | B-2 | R13 | F-3 | R28 | C-5 | R43 | B-2 | C15 | F-3 | SW76 | F-6 |
| Q4 | D-3 | D74 | B-5 | VR1 | F-4 | R14 | D-6 | R29 | C-5 | R44 | B-2 | C16 | E-3 | SW77 | F-6 |
| Q5 | D-2 | D75 | F-6 | VR2 | E-4 | R15 | D-6 | R30 | C-5 | C1 | E-3 | C17 | B-5 | SW78 | C-2 |
| Q6 | E-6 | D76 | F-6 | R1 | F-3 | R16 | B-6 | R31 | C-5 | C2 | E-2 | SW7 | B-6 | X1 | F-3 |
| Q7 | E-6 | D77 | F-6 | R2 | F-3 | R17 | E-6 | R32 | C-5 | C4 | F-3 | SW8 | B-6 | | |
| Q8 | D-2 | D78 | C-2 | R3 | E-1 | R18 | B-6 | R33 | E-6 | C5 | E-2 | SW15 | C-6 | | |
| D7 | B-6 | D125 | B-3 | R4 | B-6 | R19 | B-6 | R34 | E-6 | C6 | E-3 | SW16 | C-6 | | |
| D8 | B-6 | D126 | F-5 | R5 | E-2 | R20 | B-6 | R35 | D-2 | C7 | E-2 | SW23 | D-6 | | |
| D15 | C-6 | D127 | F-6 | R6 | E-2 | R21 | C-2 | R36 | C-1 | C8 | E-3 | SW24 | D-6 | | |
| D16 | C-6 | D128 | F-6 | R7 | E-3 | R22 | D-3 | R37 | E-3 | C9 | E-4 | SW70 | C-3 | | |
| D23 | D-6 | D129 | F-2 | R8 | E-3 | R23 | D-2 | R38 | E-3 | C10 | C-2 | SW71 | B-3 | | |

ELECTRICAL PARTS LOCATION

| Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **F** CPC P.C.B. | | | | | | | | | | | |
| D226 | B-2 | D250 | D-4 | D328 | C-2 | D340 | D-4 | C30 | F-2 | SW244 | D-2 |
| D227 | B-2 | D251 | D-4 | D329 | D-2 | D341 | E-3 | C31 | A-4 | SW245 | E-3 |
| D228 | B-2 | D252 | D-4 | D330 | D-2 | D342 | F-3 | SW226 | A-2 | SW250 | E-4 |
| D229 | B-2 | D253 | D-4 | D331 | E-2 | D343 | E-4 | SW227 | B-2 | SW251 | F-4 |
| D234 | B-2 | D258 | D-4 | D332 | E-2 | D344 | F-4 | SW228 | A-2 | SW252 | E-4 |
| D235 | B-2 | D259 | D-4 | D333 | F-2 | D345 | D-3 | SW229 | B-2 | SW253 | F-4 |
| D236 | B-2 | D260 | D-2 | D334 | F-2 | CN20 | F-4 | SW234 | C-2 | SW258 | D-4 |
| D237 | B-2 | D323 | C-1 | D335 | E-2 | CN21 | A-3 | SW235 | D-2 | SW259 | D-4 |
| D242 | D-2 | D324 | D-1 | D336 | B-3 | R70 | A-4 | SW236 | C-2 | SW260 | F-2 |
| D243 | D-2 | D325 | F-1 | D337 | D-3 | R71 | A-4 | SW237 | D-2 | | |
| D244 | D-2 | D326 | A-2 | D338 | B-5 | R72 | A-4 | SW242 | D-2 | | |
| D245 | D-2 | D327 | B-2 | D339 | C-3 | R73 | A-4 | SW243 | E-2 | | |

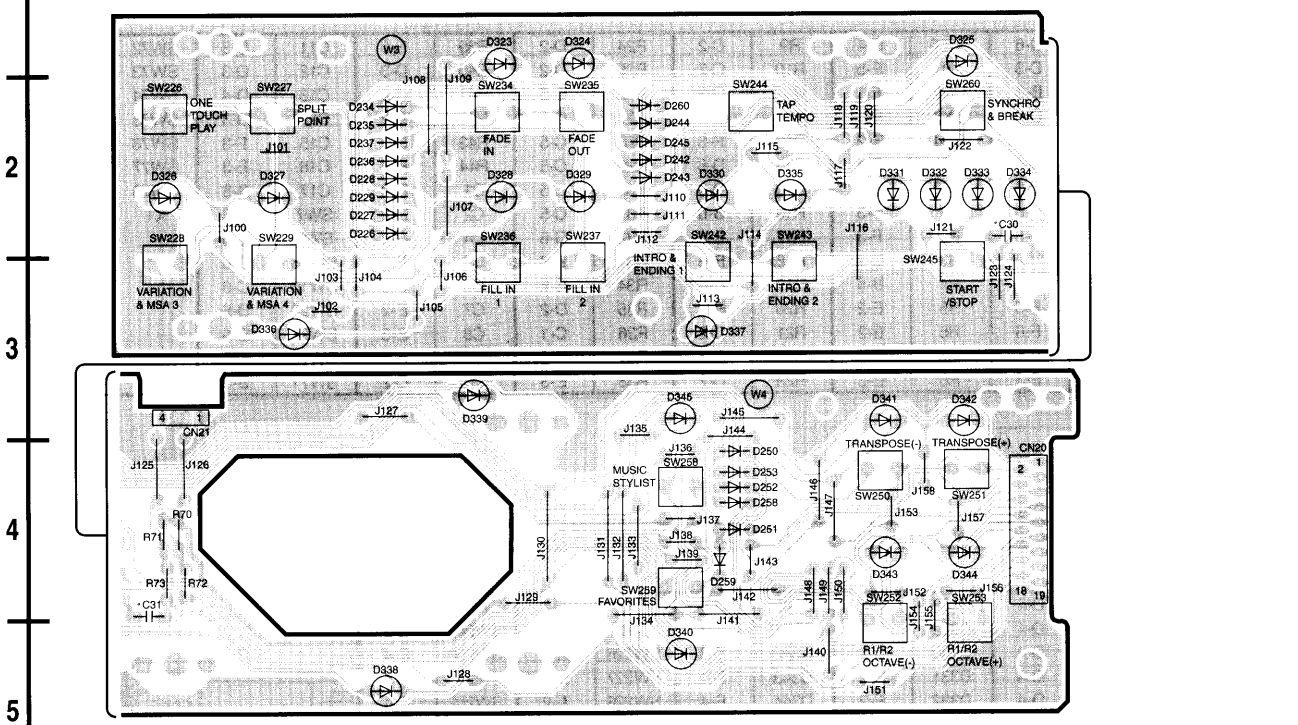
ELECTRICAL PARTS LOCATION

| Ref.No. | Lo.No. |
|---|---|
| **I** ROT P.C.B. | |
| CN40 | F-6 |
| SW500 | G-6 |

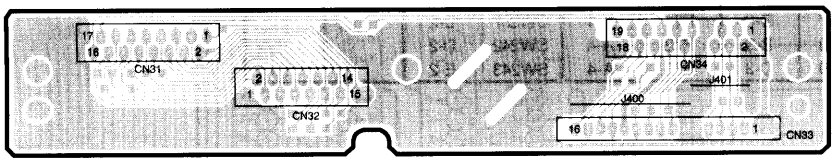
ELECTRICAL PARTS LOCATION

| Ref.No. | Lo.No. |
|---|---|
| **H** CNB P.C.B. | |
| CN31 | B-6 |
| CN32 | C-6 |
| CN33 | E-6 |
| CN34 | E-6 |

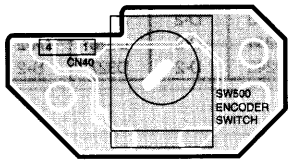
## F CPC P.C.B.



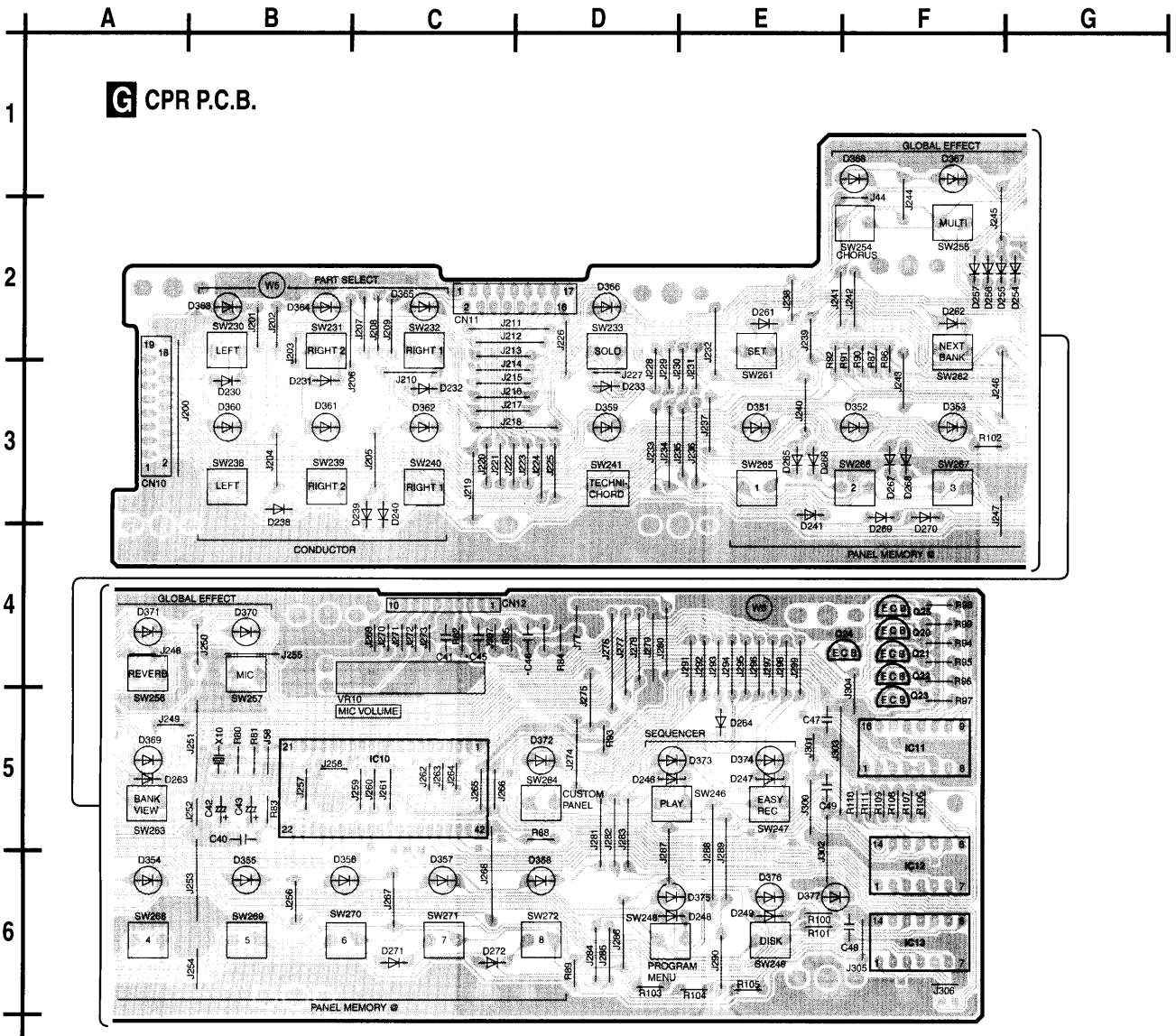

## H CNB P.C.B.




## I ROT P.C.B.



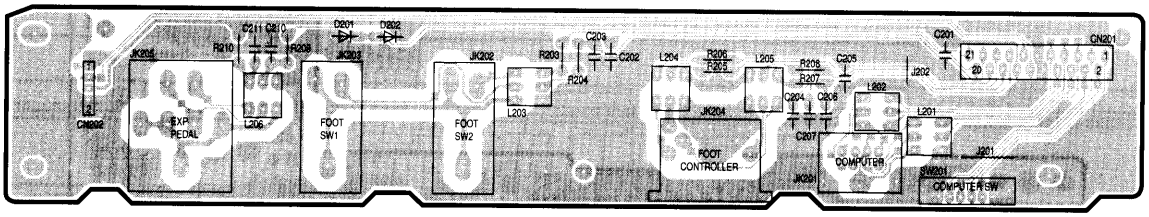
## G CPR P.C.B.



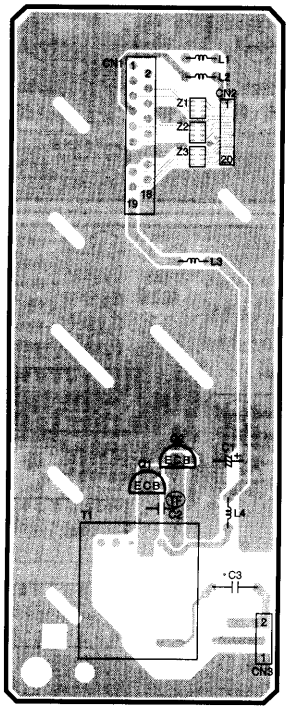

ELECTRICAL PARTS LOCATION

| Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **G** CPR P.C.B. | | | | | | | | | | | | | | | |
| IC10 | C-5 | D246 | D-5 | D271 | C-6 | D367 | F-1 | R83 | B-5 | R101 | E-6 | C48 | F-6 | SW261 | E-3 |
| IC11 | F-5 | D247 | E-5 | D272 | C-6 | D368 | F-1 | R84 | D-4 | R102 | F-3 | C49 | E-5 | SW262 | F-3 |
| IC12 | F-6 | D248 | E-6 | D351 | E-3 | D369 | A-5 | R85 | C-4 | R103 | D-6 | SW230 | B-2 | SW263 | A-5 |
| IC13 | F-6 | D249 | E-6 | D352 | F-3 | D370 | B-4 | R86 | F-3 | R104 | E-6 | SW231 | B-2 | SW264 | D-5 |
| Q20 | F-4 | D254 | G-2 | D353 | F-3 | D371 | A-4 | R87 | F-3 | R105 | E-6 | SW232 | C-2 | SW265 | E-3 |
| Q21 | F-4 | D255 | F-2 | D354 | A-6 | D372 | D-5 | R88 | D-5 | R106 | F-5 | SW233 | D-2 | SW266 | F-3 |
| Q22 | F-4 | D256 | F-2 | D355 | B-6 | D373 | E-5 | R89 | D-6 | R107 | F-5 | SW238 | B-3 | SW267 | F-3 |
| Q23 | F-5 | D257 | F-2 | D356 | B-6 | D374 | E-5 | R90 | F-3 | R108 | F-5 | SW239 | B-3 | SW268 | A-6 |
| Q24 | F-4 | D261 | E-2 | D357 | C-6 | D375 | E-6 | R91 | F-3 | R109 | F-5 | SW240 | C-3 | SW269 | B-6 |
| Q25 | F-4 | D262 | F-2 | D358 | D-6 | D376 | E-6 | R92 | E-3 | R110 | F-5 | SW241 | D-3 | SW270 | B-6 |
| D230 | B-3 | D263 | A-5 | D359 | D-3 | D377 | E-6 | R93 | D-5 | R111 | F-5 | SW246 | E-5 | SW271 | C-6 |
| D231 | B-3 | D264 | E-5 | D360 | B-3 | CN10 | A-3 | R94 | F-4 | C40 | B-5 | SW247 | E-5 | SW272 | D-6 |
| D232 | C-3 | D265 | E-3 | D361 | B-3 | CN11 | C-2 | R95 | F-4 | C41 | C-4 | SW248 | D-6 | X10 | B-5 |
| D233 | D-3 | D266 | E-3 | D362 | C-3 | CN12 | C-4 | R96 | F-4 | C42 | B-5 | SW249 | E-6 | | |
| D238 | B-3 | D267 | F-3 | D363 | B-2 | VR10 | B-5 | R97 | F-5 | C43 | B-5 | SW254 | F-2 | | |
| D239 | C-3 | D268 | F-3 | D364 | B-2 | R80 | B-5 | R98 | F-4 | C45 | C-4 | SW255 | F-2 | | |
| D240 | C-3 | D269 | F-4 | D365 | C-2 | R81 | B-5 | R99 | F-4 | C46 | D-4 | SW256 | A-5 | | |
| D241 | E-3 | D270 | F-4 | D366 | D-2 | R82 | C-4 | R100 | E-6 | C47 | E-5 | SW257 | B-5 | | |

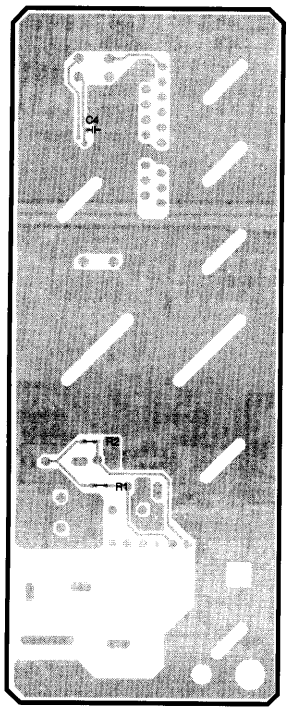
## J JACK P.C.B.




## K INV P.C.B. (COMPONENT SIDE)




## K INV P.C.B. (FOIL SIDE)



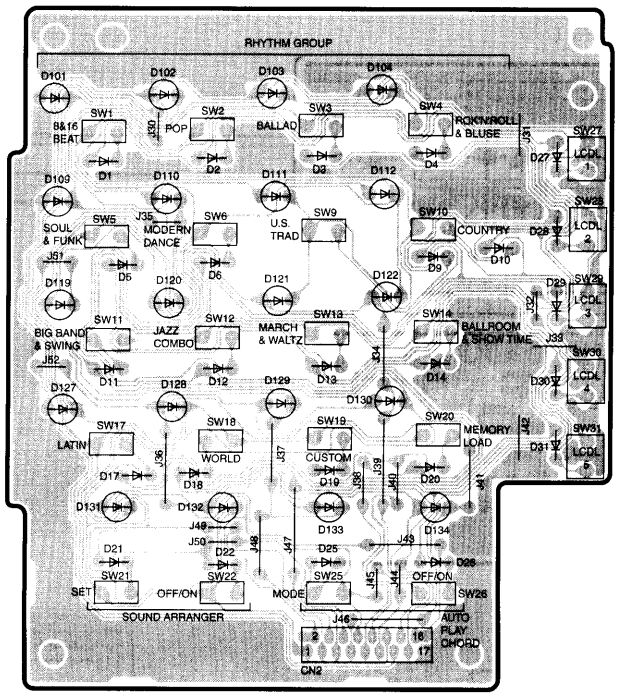

ELECTRICAL PARTS LOCATION

| Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|---|---|---|---|---|---|
| **J** JACK P.C.B. | | | | | |
| D201 | C-1 | JK202 | D-1 | R210 | B-1 |
| D202 | C-1 | JK203 | C-1 | C201 | F-1 |
| L201 | F-2 | JK204 | E-2 | C202 | D-1 |
| L202 | F-2 | JK205 | B-1 | C203 | D-1 |
| L203 | D-2 | R203 | D-1 | C204 | E-2 |
| L204 | E-1 | R204 | D-1 | C205 | F-1 |
| L205 | E-1 | R205 | E-1 | C206 | F-2 |
| L206 | B-2 | R206 | E-1 | C207 | E-2 |
| CN201 | G-1 | R207 | E-1 | C210 | B-1 |
| CN202 | A-2 | R208 | E-1 | C211 | B-1 |
| JK201 | E-2 | R209 | C-1 | SW201 | F-2 |

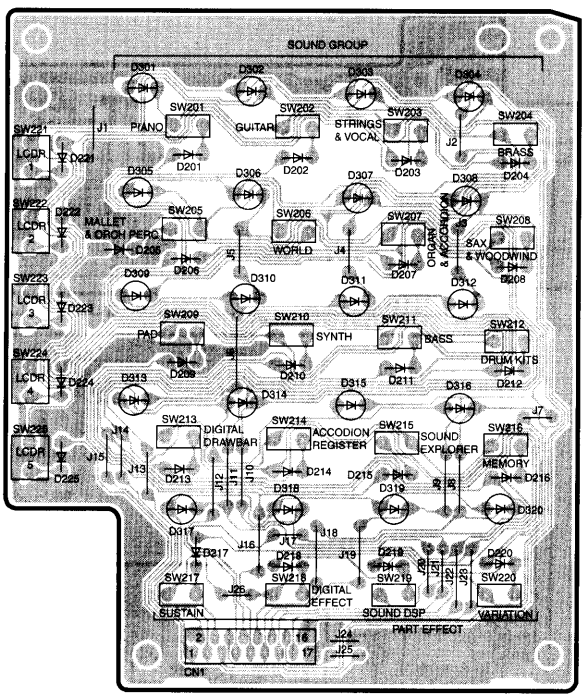
ELECTRICAL PARTS LOCATION

| Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|---|---|---|---|
| **K** INV P.C.B. | | | |
| Q1 | B-5 | CN2 | C-3 |
| Q2 | C-5 | CN3 | C-6 |
| Z1 | C-3 | R1 | D-5 |
| Z2 | C-3 | R2 | D-5 |
| Z3 | C-4 | C1 | C-5 |
| L1 | C-3 | C2 | C-6 |
| L2 | C-3 | C3 | C-6 |
| L3 | C-4 | C4 | D-3 |
| L4 | C-5 | T1 | B-6 |
| CN1 | B-3 | | |

## L LCDL P.C.B.




## M LCDR P.C.B.



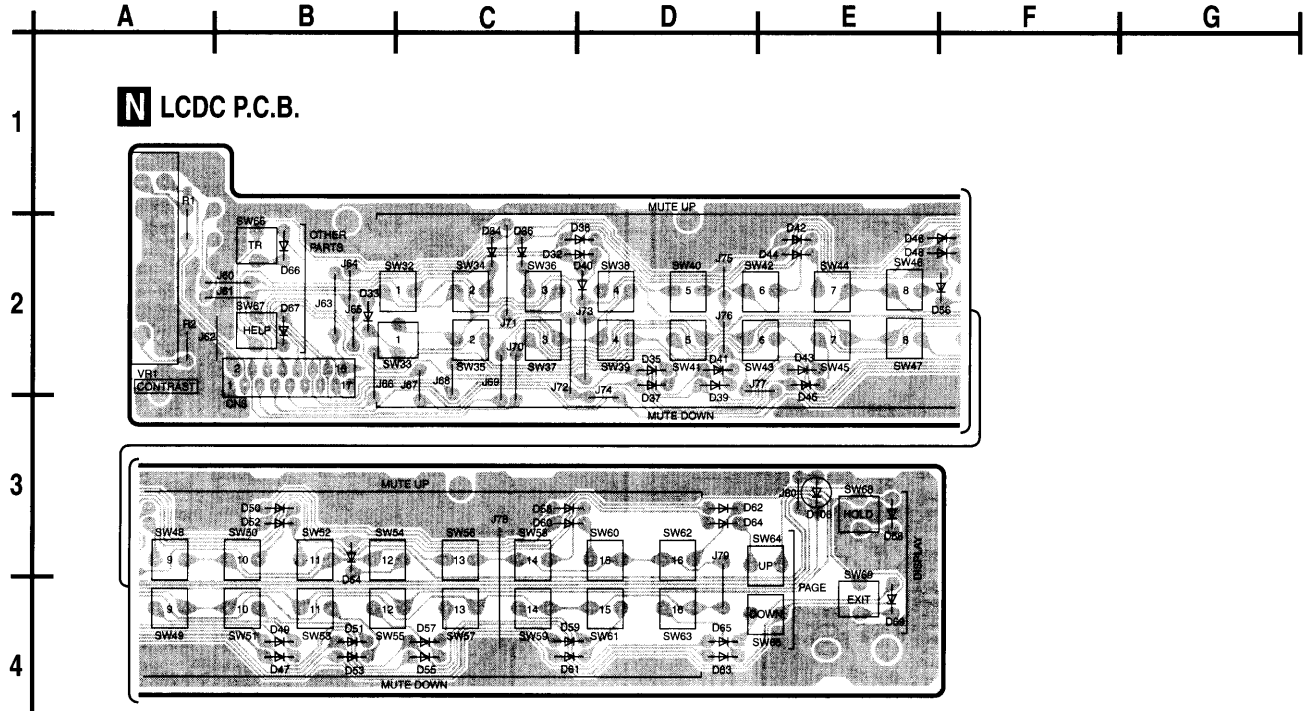

ELECTRICAL PARTS LOCATION

| Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|---|---|---|---|---|---|
| **L** LCDL P.C.B. | | | | | |
| D1 | A-2 | D31 | D-4 | SW3 | C-2 |
| D2 | B-2 | D101 | A-1 | SW4 | C-2 |
| D3 | C-2 | D102 | B-1 | SW5 | A-2 |
| D4 | C-2 | D103 | B-1 | SW6 | B-2 |
| D5 | A-3 | D104 | C-1 | SW9 | C-2 |
| D6 | B-3 | D109 | A-2 | SW10 | C-2 |
| D9 | C-3 | D110 | B-2 | SW11 | A-3 |
| D10 | D-2 | D111 | B-2 | SW12 | B-3 |
| D11 | A-3 | D112 | C-2 | SW13 | C-3 |
| D12 | B-3 | D119 | A-3 | SW14 | C-3 |
| D13 | C-3 | D120 | B-3 | SW17 | A-3 |
| D14 | C-3 | D121 | B-3 | SW18 | B-3 |
| D17 | A-4 | D122 | C-3 | SW19 | C-3 |
| D18 | B-4 | D127 | A-3 | SW20 | C-4 |
| D19 | C-4 | D128 | B-3 | SW21 | A-4 |
| D20 | C-4 | D129 | B-3 | SW22 | B-4 |
| D21 | A-4 | D130 | C-3 | SW25 | C-4 |
| D22 | B-4 | D131 | A-4 | SW26 | C-4 |
| D25 | C-4 | D132 | B-4 | SW27 | D-2 |
| D26 | C-4 | D133 | C-4 | SW28 | D-2 |
| D27 | D-2 | D134 | C-4 | SW29 | D-3 |
| D28 | D-2 | CN2 | B-5 | SW30 | D-3 |
| D29 | D-3 | SW1 | A-2 | SW31 | D-3 |
| D30 | D-3 | SW2 | B-2 | | |

ELECTRICAL PARTS LOCATION

| Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|---|---|---|---|---|---|
| **M** LCDR P.C.B. | | | | | |
| D201 | E-2 | D225 | E-4 | SW203 | F-2 |
| D202 | F-2 | D301 | E-1 | SW204 | G-2 |
| D203 | F-2 | D302 | F-1 | SW205 | E-2 |
| D204 | G-2 | D303 | F-1 | SW206 | F-2 |
| D205 | E-2 | D304 | G-1 | SW207 | F-2 |
| D206 | E-3 | D305 | E-2 | SW208 | G-2 |
| D207 | F-3 | D306 | F-2 | SW209 | E-3 |
| D208 | G-3 | D307 | F-2 | SW210 | F-3 |
| D209 | E-3 | D308 | G-2 | SW211 | F-3 |
| D210 | F-3 | D309 | E-3 | SW212 | G-3 |
| D211 | F-3 | D310 | F-3 | SW213 | E-3 |
| D212 | G-3 | D311 | F-3 | SW214 | F-3 |
| D213 | E-4 | D312 | G-3 | SW215 | F-3 |
| D214 | F-4 | D313 | E-3 | SW216 | G-3 |
| D215 | F-4 | D314 | F-3 | SW217 | E-3 |
| D216 | G-4 | D315 | F-3 | SW218 | F-4 |
| D217 | E-4 | D316 | G-3 | SW219 | F-4 |
| D218 | F-4 | D317 | E-4 | SW220 | G-4 |
| D219 | F-4 | D318 | F-4 | SW221 | D-2 |
| D220 | G-4 | D319 | F-4 | SW222 | D-2 |
| D221 | E-2 | D320 | G-4 | SW223 | D-3 |
| D222 | E-2 | CN1 | E-5 | SW224 | D-3 |
| D223 | E-3 | SW201 | E-2 | SW225 | D-3 |
| D224 | E-3 | SW202 | F-2 | | |

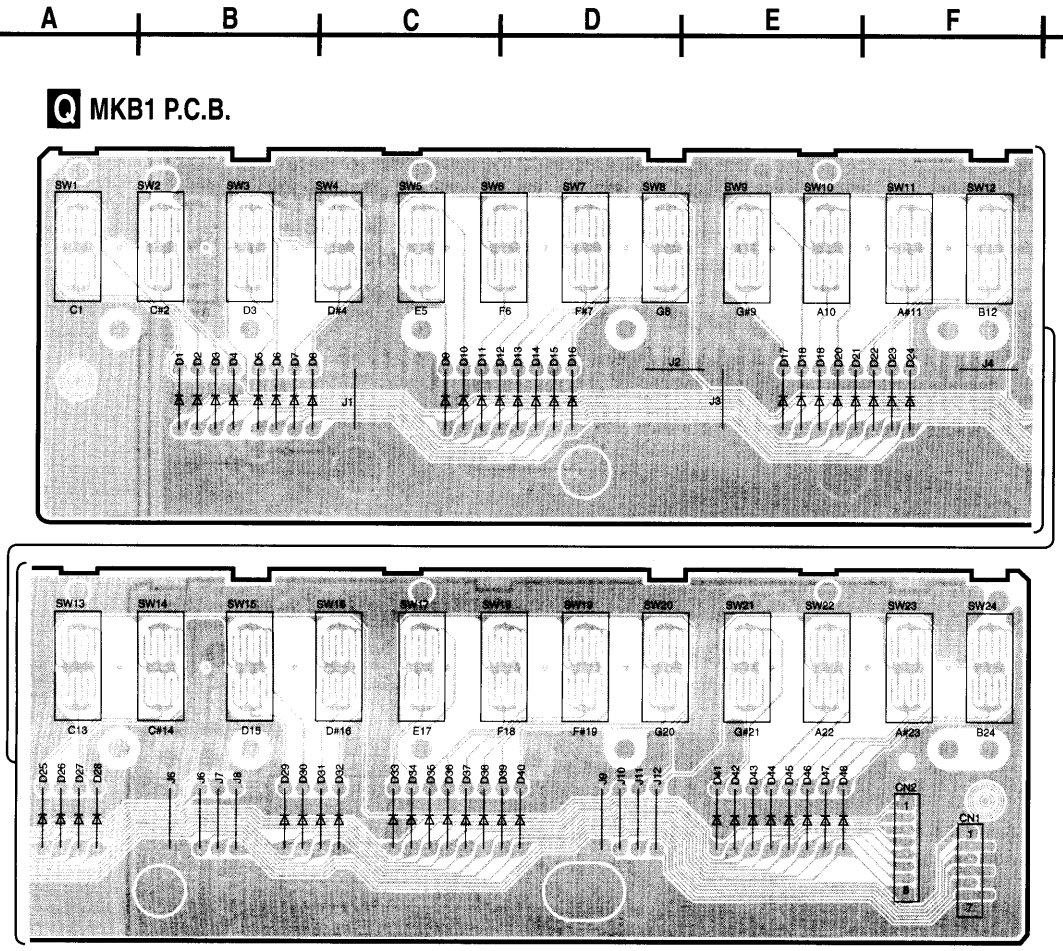
## N LCDC P.C.B.




ELECTRICAL PARTS LOCATION

| Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|---|---|---|---|---|---|
| N LCDC P.C.B. | | | | | |
| D32 | C-2 | D59 | C-4 | SW43 | D-2 |
| D33 | B-2 | D60 | C-3 | SW44 | E-2 |
| D34 | C-2 | D61 | C-4 | SW45 | E-2 |
| D35 | D-2 | D62 | D-3 | SW46 | E-2 |
| D36 | C-2 | D63 | D-4 | SW47 | E-2 |
| D37 | D-3 | D64 | D-3 | SW48 | A-3 |
| D38 | D-2 | D65 | D-4 | SW49 | A-4 |
| D39 | D-3 | D66 | B-2 | SW50 | B-3 |
| D40 | D-2 | D67 | B-2 | SW51 | B-4 |
| D41 | D-2 | D68 | E-3 | SW52 | B-3 |
| D42 | E-2 | D69 | E-4 | SW53 | B-4 |
| D43 | E-2 | D106 | E-3 | SW54 | B-3 |
| D44 | E-2 | CN3 | B-3 | SW55 | B-4 |
| D45 | E-3 | VR1 | A-2 | SW56 | C-3 |
| D46 | E-2 | R1 | A-1 | SW57 | C-4 |
| D47 | B-4 | R2 | A-2 | SW58 | C-3 |
| D48 | E-2 | SW32 | B-2 | SW59 | C-4 |
| D49 | B-4 | SW33 | B-2 | SW60 | D-3 |
| D50 | B-3 | SW34 | C-2 | SW61 | D-4 |
| D51 | B-4 | SW35 | C-2 | SW62 | D-3 |
| D52 | B-3 | SW36 | C-2 | SW63 | D-4 |
| D53 | B-4 | SW37 | C-2 | SW64 | E-3 |
| D54 | B-4 | SW38 | D-2 | SW65 | E-4 |
| D55 | C-4 | SW39 | D-2 | SW66 | B-2 |
| D56 | F-2 | SW40 | D-2 | SW67 | B-2 |
| D57 | C-4 | SW41 | D-2 | SW68 | E-3 |
| D58 | C-3 | SW42 | D-2 | SW69 | E-4 |

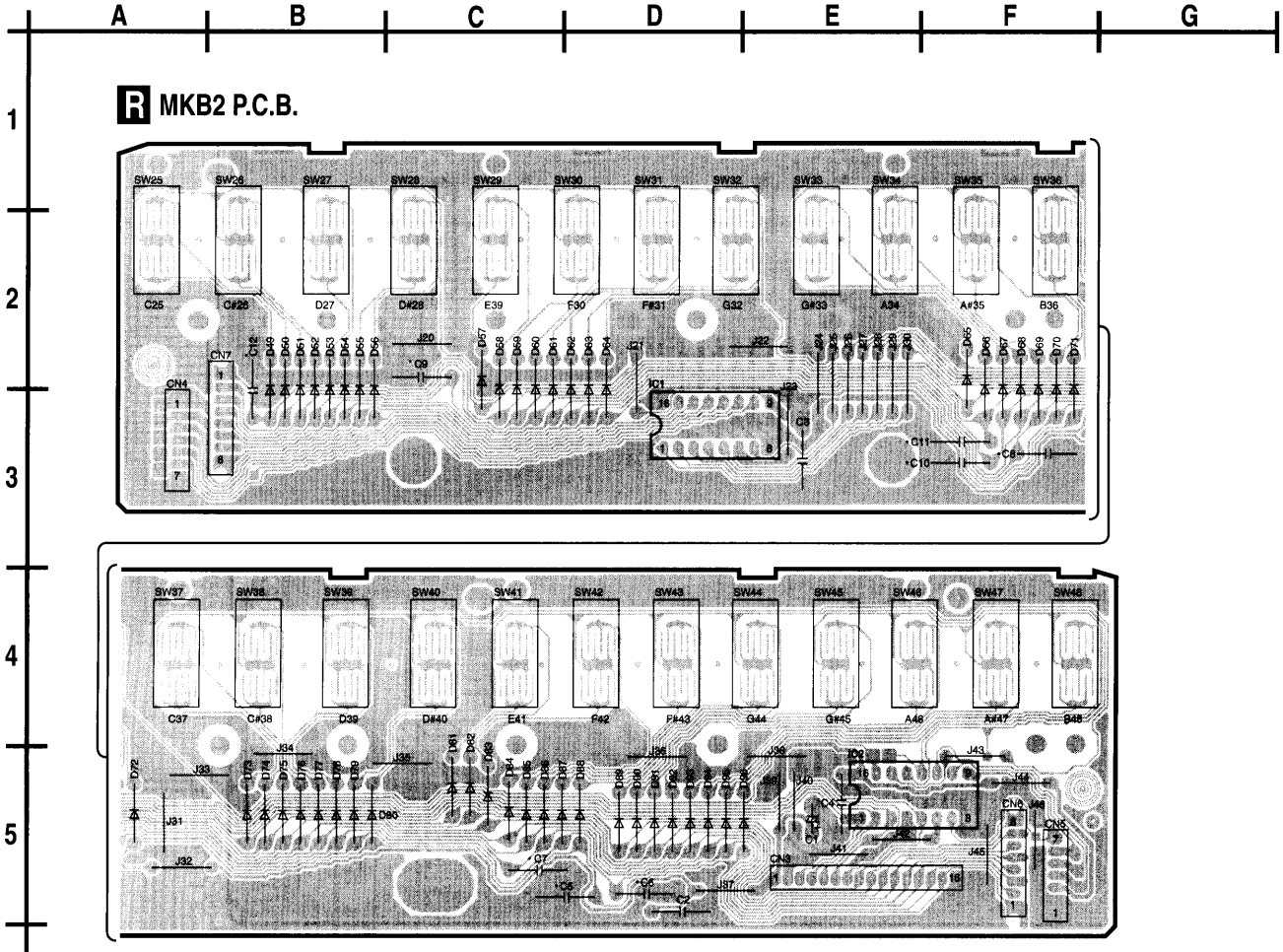
## Q MKB1 P.C.B.




ELECTRICAL PARTS LOCATION

| Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Q MKB1 P.C.B. | | | | | | | | | | | |
| D1 | B-2 | D14 | D-2 | D27 | A-5 | D40 | D-5 | SW3 | B-1 | SW16 | C-4 |
| D2 | B-2 | D15 | D-2 | D28 | A-5 | D41 | E-5 | SW4 | C-1 | SW17 | C-4 |
| D3 | B-2 | D16 | D-2 | D29 | B-5 | D42 | E-5 | SW5 | C-1 | SW18 | C-4 |
| D4 | B-2 | D17 | E-2 | D30 | B-5 | D43 | E-5 | SW6 | C-1 | SW19 | D-4 |
| D5 | B-2 | D18 | E-2 | D31 | C-5 | D44 | E-5 | SW7 | D-1 | SW20 | D-4 |
| D6 | B-2 | D19 | E-2 | D32 | C-5 | D45 | E-5 | SW8 | D-1 | SW21 | E-4 |
| D7 | B-2 | D20 | E-2 | D33 | C-5 | D46 | E-5 | SW9 | E-1 | SW22 | E-4 |
| D8 | B-2 | D21 | E-2 | D34 | C-5 | D47 | E-5 | SW10 | E-1 | SW23 | F-4 |
| D9 | C-2 | D22 | F-2 | D35 | C-5 | D48 | E-5 | SW11 | F-1 | SW24 | F-4 |
| D10 | C-2 | D23 | F-2 | D36 | C-5 | CN1 | F-5 | SW12 | F-1 | | |
| D11 | C-2 | D24 | F-2 | D37 | C-5 | CN2 | F-5 | SW13 | A-4 | | |
| D12 | C-2 | D25 | A-5 | D38 | C-5 | SW1 | A-1 | SW14 | B-4 | | |
| D13 | D-2 | D26 | A-5 | D39 | C-5 | SW2 | B-1 | SW15 | B-4 | | |

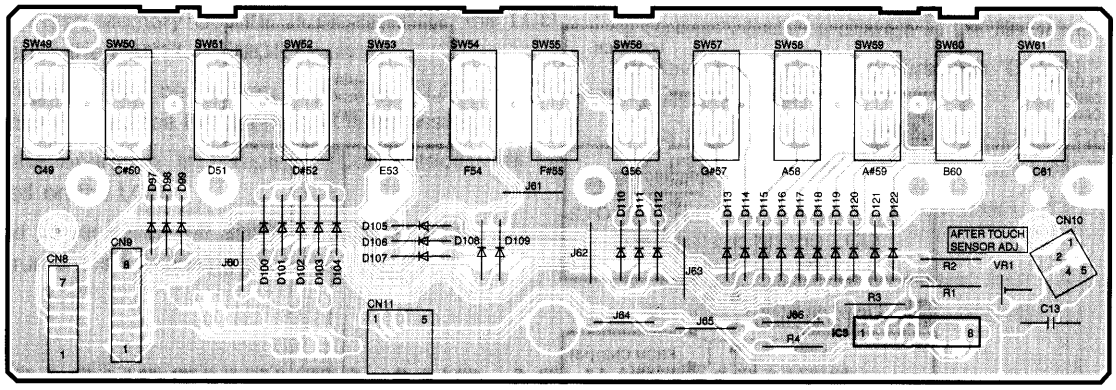
## R MKB2 P.C.B.




ELECTRICAL PARTS LOCATION

| Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| R MKB2 P.C.B. | | | | | | | | | | | |
| IC1 | D-2 | D63 | D-2 | D79 | B-5 | D95 | D-5 | C10 | E-3 | SW38 | B-4 |
| IC2 | E-5 | D64 | D-2 | D80 | B-5 | D96 | E-5 | C11 | E-3 | SW39 | B-4 |
| D49 | B-2 | D65 | F-2 | D81 | C-5 | CN3 | E-5 | C12 | B-2 | SW40 | C-4 |
| D50 | B-2 | D66 | F-2 | D82 | C-5 | CN4 | A-2 | SW25 | A-1 | SW41 | C-4 |
| D51 | B-2 | D67 | F-2 | D83 | C-5 | CN5 | F-5 | SW26 | B-1 | SW42 | D-4 |
| D52 | B-2 | D68 | F-2 | D84 | C-5 | CN6 | F-5 | SW27 | B-1 | SW43 | D-4 |
| D53 | B-2 | D69 | F-2 | D85 | C-5 | CN7 | B-2 | SW28 | C-1 | SW44 | E-4 |
| D54 | B-2 | D70 | F-2 | D86 | C-5 | C1 | E-5 | SW29 | C-1 | SW45 | E-4 |
| D55 | B-2 | D71 | F-2 | D87 | C-5 | C2 | D-5 | SW30 | C-1 | SW46 | E-4 |
| D56 | B-2 | D72 | A-5 | D88 | D-5 | C3 | E-3 | SW31 | D-1 | SW47 | F-4 |
| D57 | C-2 | D73 | B-5 | D89 | D-5 | C4 | E-5 | SW32 | D-1 | SW48 | F-4 |
| D58 | C-2 | D74 | B-5 | D90 | D-5 | C5 | D-5 | SW33 | E-1 | | |
| D59 | C-2 | D75 | B-5 | D91 | D-5 | C6 | D-5 | SW34 | E-1 | | |
| D60 | C-2 | D76 | B-5 | D92 | D-5 | C7 | C-5 | SW35 | F-1 | | |
| D61 | C-2 | D77 | B-5 | D93 | D-5 | C8 | F-3 | SW36 | F-1 | | |
| D62 | D-2 | D78 | B-5 | D94 | D-5 | C9 | C-2 | SW37 | A-4 | | |

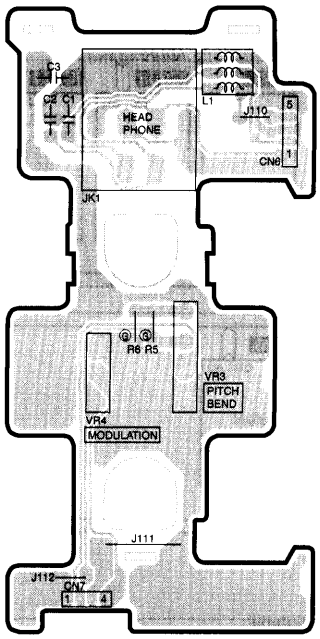
## S MKB3 P.C.B.



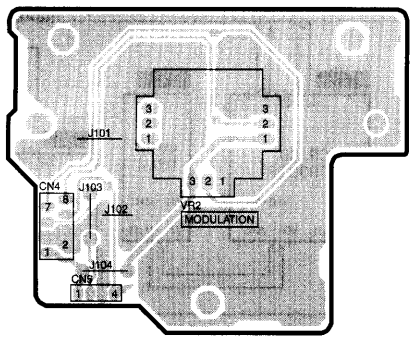

ELECTRICAL PARTS LOCATION

| Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S MKB3 P.C.B. | | | | | | | | | | | | | | | |
| IC3 | F-3 | D103 | C-2 | D110 | D-2 | D117 | E-2 | CN9 | B-2 | R4 | E-3 | SW54 | C-1 | SW61 | G-1 |
| D97 | B-2 | D104 | C-2 | D111 | D-2 | D118 | E-2 | CN10 | G-2 | C13 | G-3 | SW55 | D-1 | | |
| D98 | B-2 | D105 | C-2 | D112 | E-2 | D119 | F-2 | CN11 | C-3 | SW49 | A-1 | SW56 | D-1 | | |
| D99 | B-2 | D106 | C-2 | D113 | E-2 | D120 | F-2 | VR1 | G-3 | SW50 | B-1 | SW57 | E-1 | | |
| D100 | B-2 | D107 | C-2 | D114 | E-2 | D121 | F-2 | R1 | F-3 | SW51 | B-1 | SW58 | E-1 | | |
| D101 | C-2 | D108 | D-2 | D115 | E-2 | D122 | F-2 | R2 | F-2 | SW52 | C-1 | SW59 | F-1 | | |
| D102 | C-2 | D109 | D-2 | D116 | E-2 | CN8 | A-3 | R3 | F-3 | SW53 | C-1 | SW60 | F-1 | | |

## O HB P.C.B.




## P MB P.C.B.




ELECTRICAL PARTS LOCATION

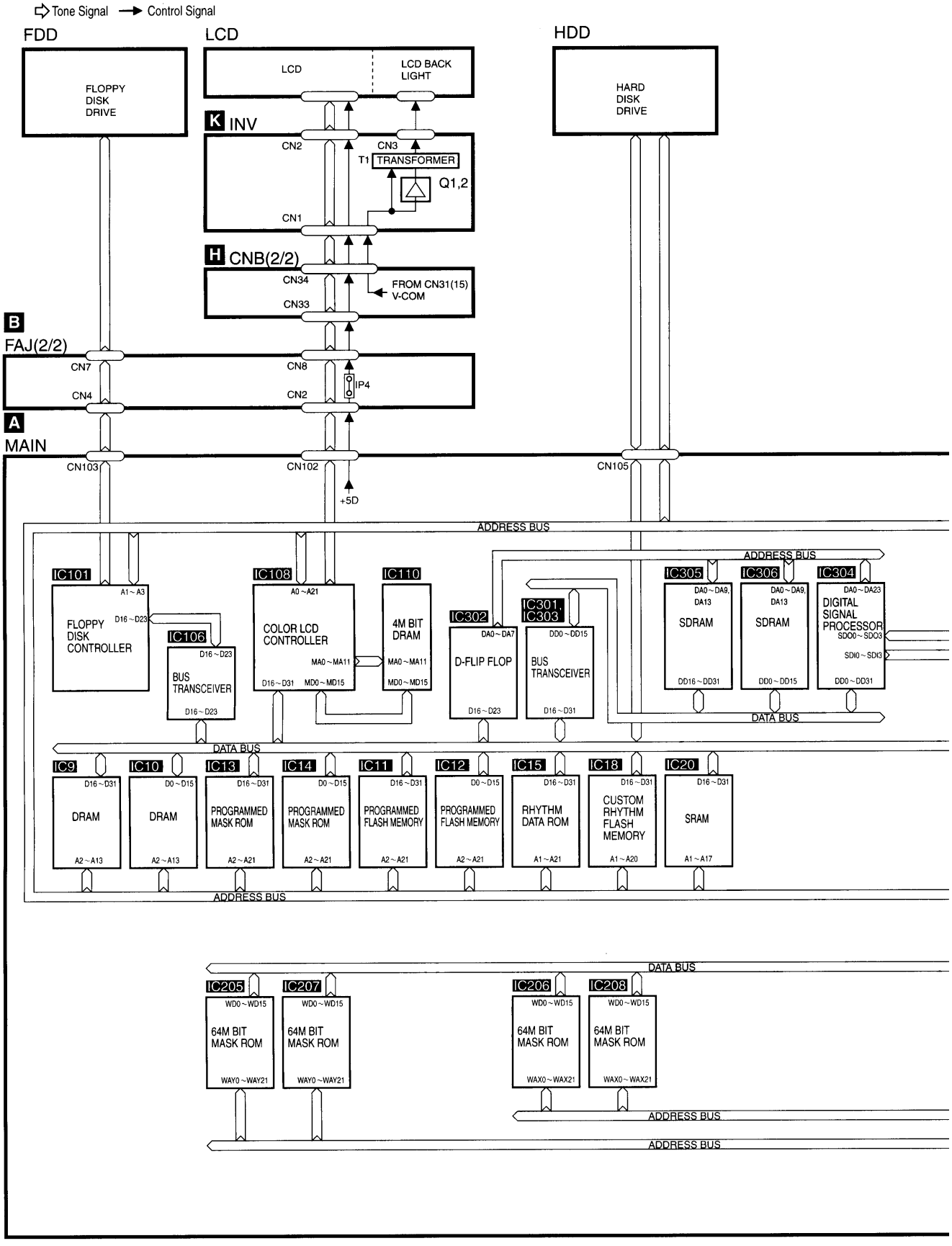
| Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|---|---|---|---|
| O HB P.C.B. | | | |
| L1 | B-5 | R5 | B-7 |
| CN6 | B-6 | R6 | B-7 |
| CN7 | A-8 | C1 | A-5 |
| JK1 | A-6 | C2 | A-5 |
| VR3 | B-7 | C3 | A-5 |
| VR4 | A-7 | | |

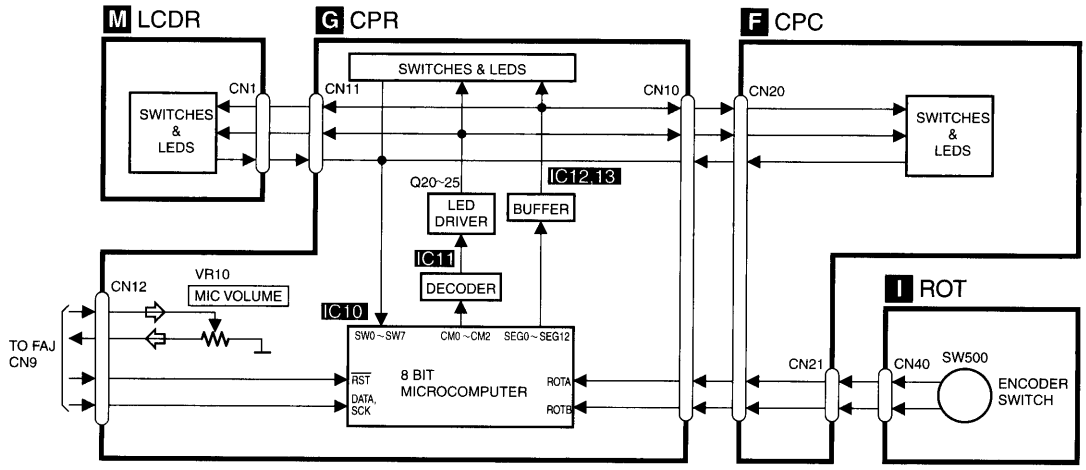
ELECTRICAL PARTS LOCATION

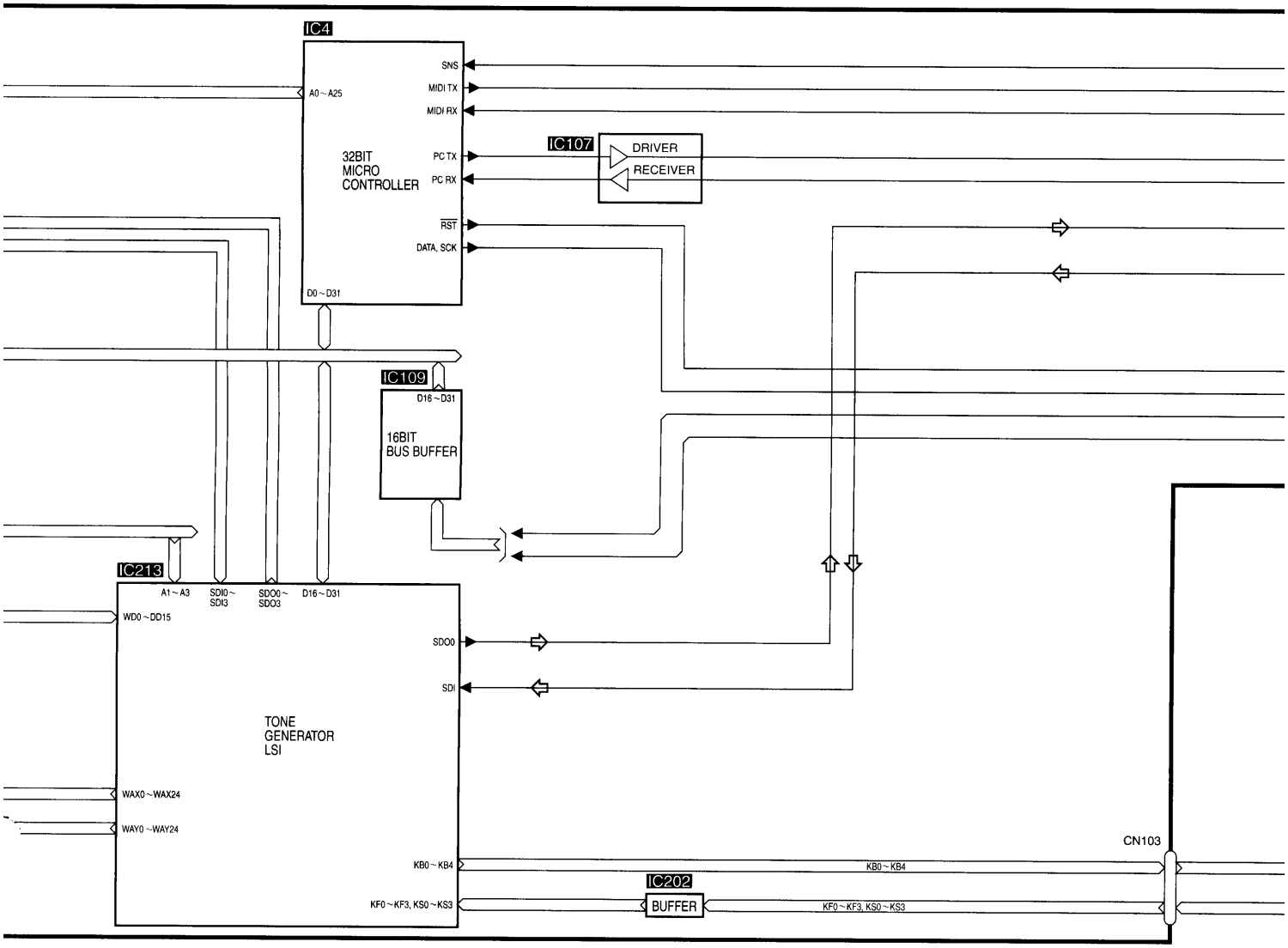
| Ref.No. | Lo.No. |
|---|---|
| P MBP.C.B. | |
| CN4 | D-6 |
| CN5 | D-6 |
| VR2 | E-6 |

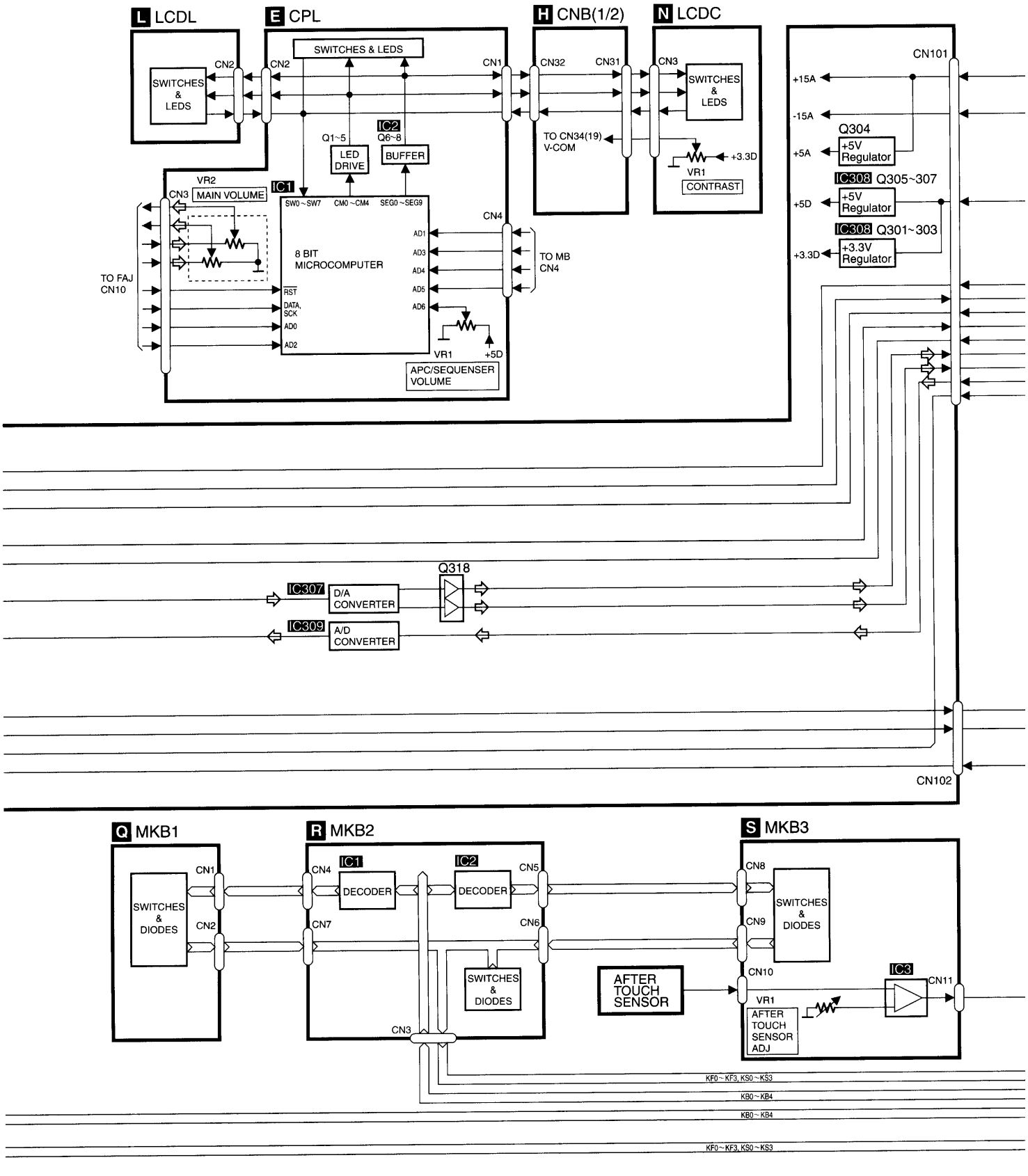
# 13 Block Diagram

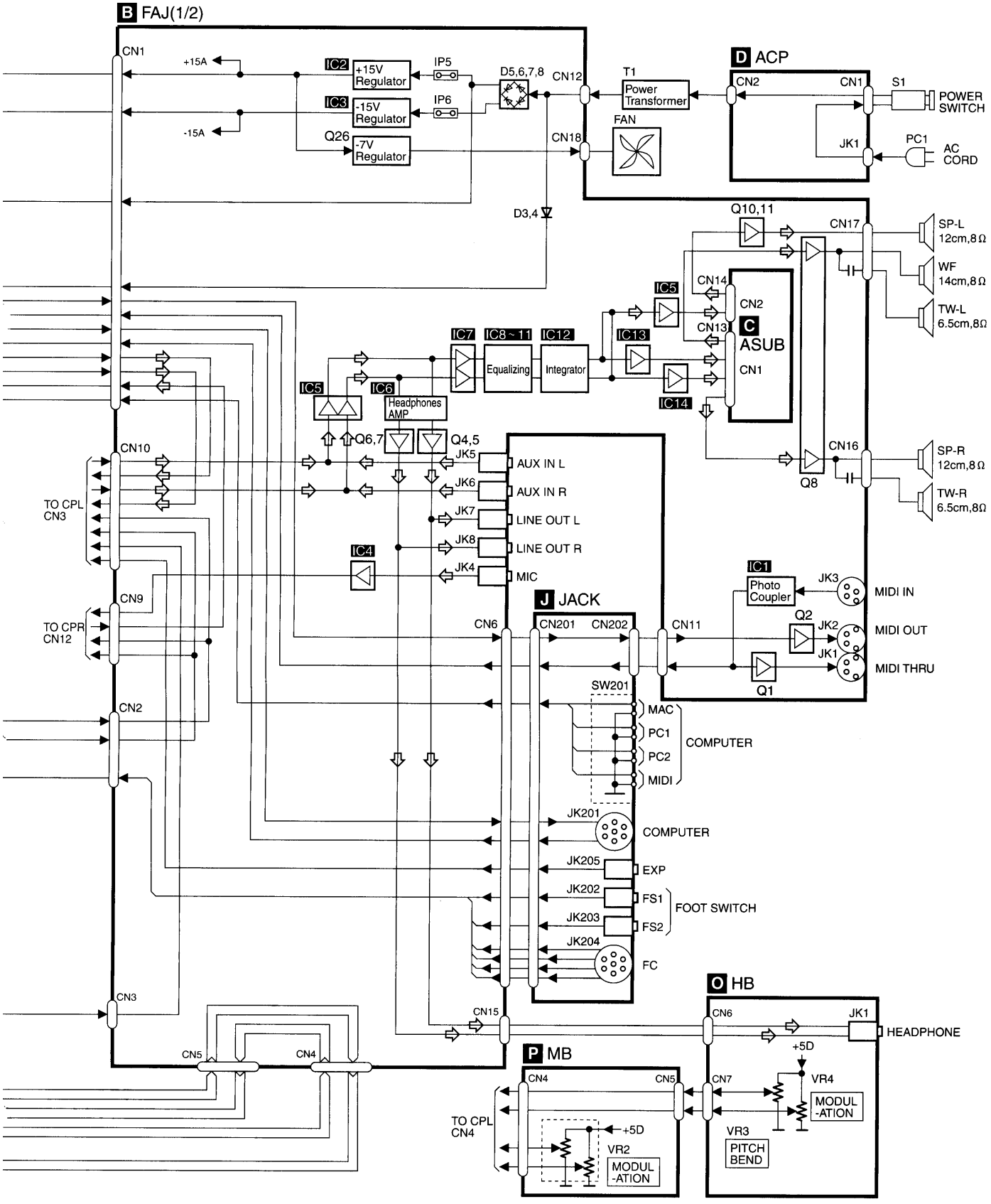
## Block Diagram



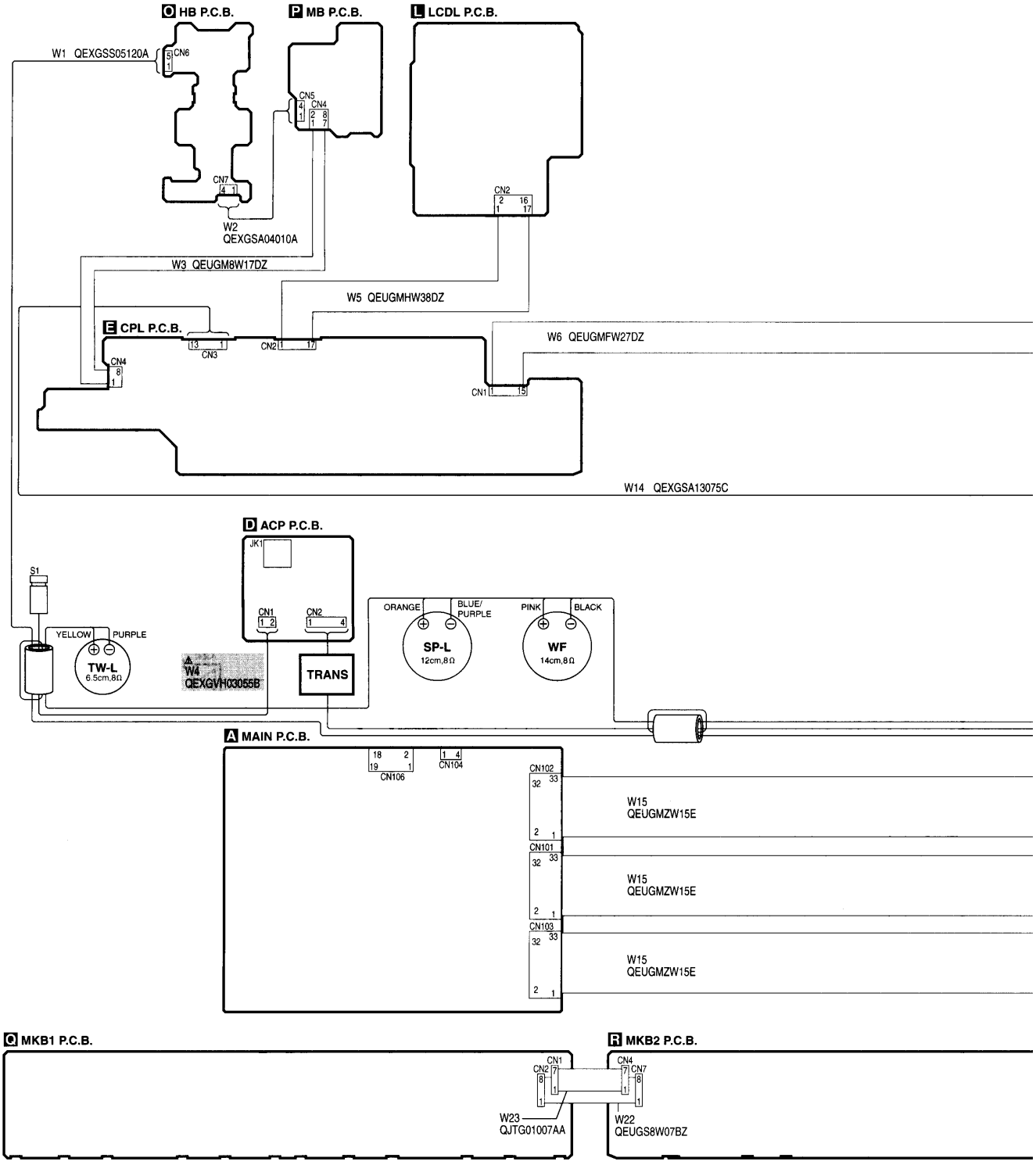

M LCDR
G CPR
F CPC
I ROT
SWITCHES & LEDS
SWITCHES & LEDS
CN1
CN11
CN10
CN20
SWITCHES & LEDS
Q20~25
IC12,13
LED DRIVER
BUFFER
IC11
DECODER
CN12
VR10
MIC VOLUME
IC10
TO FAJ CN9
SW0~SW7
CM0~CM2
SEG0~SEG12
RST
DATA, SCK
8 BIT MICROCOMPUTER
ROTA
ROTB
CN21
CN40
SW500
ENCODER SWITCH

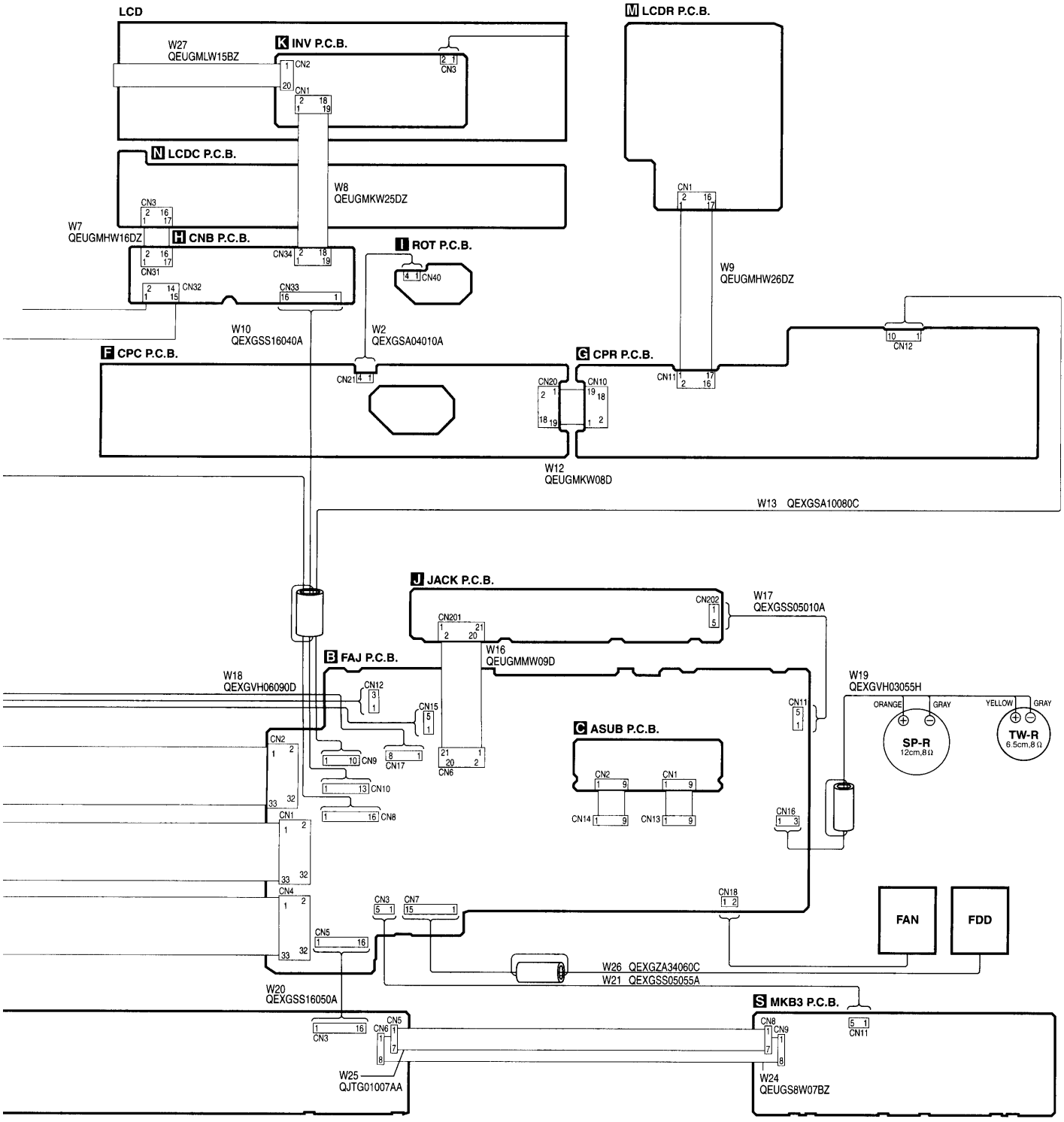

IC4
A0~A25
SNS
MIDI TX
MIDI RX
32BIT MICRO CONTROLLER
PC TX
PC RX
IC107
DRIVER
RECEIVER
RST
DATA, SCK
D0~D31
IC109
D16~D31
16BIT BUS BUFFER
IC213
A1~A3
SDI0~SDI3
SDO0~SDO3
D16~D31
WD0~DD15
SDO0
SDI
TONE GENERATOR LSI
WAX0~WAX24
WAY0~WAY24
KB0~KB4
KF0~KF3, KS0~KS3
IC202
BUFFER
CN103
KB0~KB4
KF0~KF3, KS0~KS3


L LCDL
SWITCHES & LEDS
CN2
E CPL
SWITCHES & LEDS
CN2
CN1
IC2
Q1~5
Q6~8
LED DRIVE
BUFFER
VR2
CN3
MAIN VOLUME
IC1
SW0~SW7
CM0~CM4
SEG0~SEG9
8 BIT MICROCOMPUTER
RST
DATA, SCK
AD0
AD2
AD1
AD3
AD4
AD5
AD6
CN4
TO MB CN4
VR1
+5D
APC/SEQUENSER VOLUME
TO FAJ CN10
H CNB(1/2)
CN32
CN31
TO CN34(19) V-COM
N LCDC
CN3
SWITCHES & LEDS
+3.3D
VR1
CONTRAST
CN101
+15A
-15A
+5A
Q304
+5V Regulator
IC308 Q305~307
+5D
+5V Regulator
IC308 Q301~303
+3.3D
+3.3V Regulator
CN102
IC307
D/A CONVERTER
Q318
IC309
A/D CONVERTER
Q MKB1
SWITCHES & DIODES
CN1
CN2
R MKB2
CN4
IC1
DECODER
IC2
DECODER
CN5
CN7
CN6
SWITCHES & DIODES
CN3
AFTER TOUCH SENSOR
S MKB3
CN8
SWITCHES & DIODES
CN9
CN10
IC3
CN11
VR1
AFTER TOUCH SENSOR ADJ
KF0~KF3, KS0~KS3
KB0~KB4
KB0~KB4
KF0~KF3, KS0~KS3


B FAJ(1/2)
CN1
+15A
-15A
IC2 +15V Regulator
IC3 -15V Regulator
Q26 -7V Regulator
IP5
IP6
D5,6,7,8
CN12
T1
Power Transformer
FAN
CN18
D3,4
D ACP
CN2
CN1
S1
POWER SWITCH
JK1
PC1
AC CORD
Q10,11
CN17
SP-L 12cm,8Ω
WF 14cm,8Ω
TW-L 6.5cm,8Ω
CN14
CN2
CN13
C ASUB
CN1
IC5
IC7
IC8~11
IC12
IC13
IC14
Equalizing
Integrator
IC5
IC6
Headphones AMP
Q6,7
Q4,5
CN16
SP-R 12cm,8Ω
TW-R 6.5cm,8Ω
Q8
CN10
TO CPL CN3
JK5 AUX IN L
JK6 AUX IN R
JK7 LINE OUT L
JK8 LINE OUT R
IC4
JK4 MIC
IC1
Photo Coupler
JK3 MIDI IN
J JACK
CN9
TO CPR CN12
CN6
CN201
CN202
CN11
Q2
JK2 MIDI OUT
JK1 MIDI THRU
Q1
SW201
CN2
MAC
PC1
PC2
MIDI
COMPUTER
JK201 COMPUTER
JK205 EXP
JK202 FS1
JK203 FS2
FOOT SWITCH
JK204 FC
CN3
CN15
O HB
CN6
JK1 HEADPHONE
+5D
VR4
MODUL -ATION
CN7
VR3
PITCH BEND
CN5
CN4
P MB
CN4
CN5
TO CPL CN4
+5D
VR2
MODUL -ATION

# 14 Wiring Connection Diagram




LCD
K INV P.C.B.
W27
QEUGMLW15BZ
CN2
CN1
CN3
M LCDR P.C.B.
N LCDC P.C.B.
W8
QEUGMKW25DZ
W7
QEUGMHW16DZ
H CNB P.C.B.
CN31
CN34
CN32
CN33
I ROT P.C.B.
CN40
W9
QEUGMHW26DZ
W10
QEXGSS16040A
W2
QEXGSA04010A
F CPC P.C.B.
CN21
G CPR P.C.B.
CN20
CN10
CN11
CN12
W12
QEUGMKW08D
W13 QEXGSA10080C
J JACK P.C.B.
CN201
CN202
W17
QEXGSS05010A
W16
QEUGMMW09D
B FAJ P.C.B.
W18
QEXGVH06090D
CN12
CN15
CN9
CN17
CN6
CN2
CN1
CN10
CN8
C ASUB P.C.B.
CN14
CN13
CN16
W19
QEXGVH03055H
ORANGE
GRAY
YELLOW
GRAY
SP-R
12cm,8Ω
TW-R
6.5cm,8Ω
CN4
CN3
CN7
CN5
CN18
FAN
FDD
W26 QEXGZA34060C
W21 QEXGSS05055A
W20
QEXGSS16050A
S MKB3 P.C.B.
CN6
CN8
CN9
CN11
W25
QJTG01007AA
W24
QEUGS8W07BZ

# 15 Replacement Parts List

**Notes:**

*Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Funrthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.
*Warning: This product uses a laser diode. Refer to caution statements.

*ACHTUNG:Die lasereinheit nicht zerlegen.Die lasereinheit darf nur gegen einc vom hersteller spezifizierte einheit ausgetauscht werden.

*Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
*Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000K (OHM)

*The marking <RTL> indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly , and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

*"<IA>"-"<IH>", marks in Remarks indicate languages of instruction manuals. [<IA> : Dansk, <IB> : English, <IC> : English, <ID> : French, <IE> : Germany, <IF> : Italiano, <IG> : Espanol, <IH> : Nerderlands]

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| | | | | |
| 1 | QYPG1095AB | CONTROL PANEL ASS'Y | 1 | |
| 2 | QGPG0143AB | LCD PANEL | 1 | |
| 3 | QKSGK021AB | LCD CASE | 1 | |
| 4 | QSLG025AA | LCD | 1 | |
| 5 | XYE3+FG12 | SCREW | 3 | |
| 6 | XTV3+12G | SCREW | 1 | |
| 7 | XTW3+10QFZ | SCREW | 2 | |
| 10 | QGUG1480AA | BUTTON | 1 | |
| 11 | QGUG1480BA | BUTTON | 1 | |
| 12 | QGUG1481AA | BUTTON | 2 | |
| 13 | QGUG1482AA | BUTTON | 2 | |
| 14 | QGUG1483AA | BUTTON | 6 | |
| 15 | QGUG1484AA | BUTTON | 2 | |
| 16 | QMFG4246AA | CUSHION | 2 | |
| 17 | QMFG4247AA | CUSHION | 1 | |
| 18 | QMFG4248AA | CUSHION | 1 | |
| 19 | QMFG4249AA | CUSHION | 1 | |
| 20 | QMRG7107AA | SHAFT HOLDER | 2 | |
| 21 | QMRG7109AA | LOCK ARM R | 1 | |
| 22 | QMRG7110AA | LOCK ARM R | 1 | |
| 23 | QMRG7111AA | LOCK LEVER | 1 | |
| 24 | QMGG063AA | CUSHION | 2 | |
| 25 | XTW3+10Q | SCREW | 10 | |
| 26 | XTN23+10C | SCREW | 4 | |
| 27 | XTW3+12QFZ | SCREW | 9 | |
| 28 | QMRG5215AA | CUSHION | 2 | |
| 29 | QMRG5216AA | CUSHION | 2 | |
| 30 | QKWG036AA | LCD WINDOW | 1 | |
| 31 | QMFG4252AA | CUSHION | 2 | |
| 32 | QMRG7106AA | SHAFT | 2 | |
| 33 | EASJ14PL11A3 | SPEAKER,14cm | 1 | |
| 34 | EAS12P458JB3 | SPEAKER,12cm | 2 | |
| 35 | EAS65PH31D3 | SPEAKER,6.5cm | 2 | |
| 36 | QGUG1472AA | BUTTON | 1 | |
| 37 | QGUG1472BA | BUTTON | 2 | |
| 38 | QGUG1472BB | BUTTON | 1 | |
| 39 | QGUG1472CA | BUTTON | 4 | |
| 40 | QGUG1473AA | BUTTON | 1 | |
| 41 | QGUG1485AA | BUTTON | 1 | |
| 42 | QGUG1473BA | BUTTON | 1 | |
| 43 | QGUG1473CA | BUTTON | 1 | |
| 44 | QGUG1474AA | BUTTON | 1 | |
| 45 | QGUG1475AA | BUTTON | 2 | |
| 46 | QGUG1476AA | BUTTON | 1 | |
| 47 | QGUG1477AA | BUTTON | 3 | |
| 48 | QGUG1478AA | BUTTON | 1 | |
| 49 | QGUG1479AA | BUTTON | 2 | |
| 50 | QGUG1440AC1K | BUTTON | 1 | |
| 51 | QGUG3002BB | DIAL WHEEL | 1 | |
| 52 | SBNG7070B | KNOB | 2 | |
| 53 | QGUG1040AA | BUTTON,POWER | 1 | |
| 54 | QGUG3008AA | MODULATION BALL | 1 | |
| 55 | REM0072 | FAN | 1 | |
| 56 | XTB4+30C | SCREW | 2 | |
| 57 | QMGG029AA | FLOATING RUBBER | 4 | |
| 61 | QMRG5159AA | CUSHION | 4 | |
| 62 | QMRG5160AA | CUSHION | 8 | |
| 65 | SHGG3130A | FOOT | 4 | |
| 67 | SBNG4050AK | BENDER WHEEL | 2 | |
| 68 | SUSG570A | SPRING | 1 | |
| 69 | SHGG5010A | TUBE | 2 | |
| 70 | QMFG4076AA | CUSHION | 2 | |
| 71 | XNS12FZ | NUT | 1 | |
| 72 | XTW3+10T | SCREW | 1 | |
| 73 | QSPG1010AA | SW,POWER | 1 | |
| 75 | QMFG4080AA | CUSHION | 13 | |
| 76 | QMFG4107AA | CUSHION | 4 | |
| 77 | XNS12FZ | NUT | 8 | |
| 79 | XTW3+10TFZ | SCREW | 3 | |
| 80 | XTW3+10T | SCREW | 3 | |
| 81 | XYN3+J8FZ | SCREW | 2 | |
| 82 | XYN3+C8FZ | SCREW | 1 | |
| 83 | QTPG1M056A | POWER TRANSFORMER | 1 | ⚠ M,MC,XM |
| 83 | QTPG1M057A | POWER TRANSFORMER | 1 | ⚠ X,XS,XD,XT,XA |
| 83 | QTPG1M058A | POWER TRANSFORMER | 1 | ⚠ EN,EZ,EK,EW,EF,EA,EP,EH |
| 83 | QTPG1M058A | POWER TRANSFORMER | 1 | ⚠ XL,XR,XP,XW |
| 84 | QMRG1020AA | SPACER | 4 | EN,EZ,EK,EW,EF,EA,EP,EH |
| 84 | QMRG1020AA | SPACER | 4 | XL,XR,XP,XW |
| 85 | QAUG025AA | FDD | 1 | |
| 86 | XYN3+F6FZ | SCREW | 4 | |
| 87 | QMGG029AA | FLOATING RUBBER | 4 | |
| 88 | QMFG4094AA | CUSHION | 2 | |
| 104 | XTW3+20Q | SCREW | 2 | |
| 105 | QHDG025AA | SCREW | 1 | |
| 106 | QHDG050AA | SCREW | 8 | |
| 107 | XYE3+FG12 | SCREW | 11 | |
| 108 | XTW3+10QFZ | SCREW | 2 | |
| 109 | XTW3+12Q | SCREW | 38 | |
| 110 | XTW3+16JFZ | SCREW | 14 | |
| 111 | XTV3+10G | SCREW | 44 | |
| 112 | XTB3+12GFZ | SCREW | 2 | |
| 113 | XTT4+16GFZ | SCREW | 6 | |
| 114 | XYN4+F20 | SCREW | 1 | M,MC,XM,XS,XD,XT,XA,X |
| 114 | XYN4+F25 | SCREW | 4 | EN,EZ,EK,EW,EF,EA,EP,EH |
| 114 | XYN4+F25 | SCREW | 4 | XL,XR,XP,XW |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| 115 | QGNGKN6000AA | NAME PLATE | 1 | XL,XR |
| 115 | QGNGKN6000CA | NAME PLATE | 1 | MC |
| 115 | QGNGKN6000EA | NAME PLATE | 1 | EN,EZ,EK,EW,EF,EA,EP,EH |
| 115 | QGNGKN6000EA | NAME PLATE | 1 | XW |
| 115 | QGNGKN6000LA | NAME PLATE | 1 | XP |
| 115 | QGNGKN6000MA | NAME PLATE | 1 | M,XM |
| 115 | QGNGKN6000SA | NAME PLATE | 1 | X,XS,XD,XT,XA |
| 116 | QJAG025AA | POWER CORD | 1 | ⚠ M,MC,XM |
| 116 | QJAG027AA | POWER CORD | 1 | ⚠ EN,EZ,EW,EF,EA,EP,EH |
| 116 | QJAG027AA | POWER CORD | 1 | ⚠ X,XS,XT,XP,XW |
| 116 | QJAG028AA | POWER CORD | 1 | ⚠ EK,XD |
| 116 | QJAG029AA | POWER CORD | 1 | ⚠ XL,XR |
| 116 | QJAG031AA | POWER CORD | 1 | ⚠ XA |
| 117 | QAQG040AA | FLOPPY DISK | 1 | |
| 118 | QYAG3009AA | MUSIC STAND ASS´Y | 1 | |
| 127 | QPGG0455AA | PACKING CASE | 1 | |
| 130 | QQFGKN6000AA | INSTRUCTION MANUAL | 1 | EN |
| 130-1 | QQTG0520A | INSTRUCTION MANUAL | 1 | <IA> |
| 130-2 | QQTG0522A | INSTRUCTION MANUAL | 1 | <IB> |
| 131 | QQFGKN6000BA | INSTRUCTION MANUAL | 1 | M,<IC> |
| 132 | QQFGKN6000CA | INSTRUCTION MANUAL | 1 | MC |
| 132-1 | QQTG0522A | INSTRUCTION MANUAL | 1 | <IB> |
| 132-2 | QQTG0524A | INSTRUCTION MANUAL | 1 | <ID> |
| 133 | QQFGKN6000DA | INSTRUCTION MANUAL | 1 | EZ,<IE> |
| 134 | QQFGKN6000EA | INSTRUCTION MANUAL | 1 | EK,XL,XR,XS,XD,XT,XW<IB> |
| 135 | QQFGKN6000FA | INSTRUCTION MANUAL | 1 | EW |
| 135-1 | QQTG0524A | INSTRUCTION MANUAL | 1 | <ID> |
| 135-2 | QQTG0523A | INSTRUCTION MANUAL | 1 | <IE> |
| 135-3 | QQTG0526A | INSTRUCTION MANUAL | 1 | <IF> |
| 136 | QQFGKN6000GA | INSTRUCTION MANUAL | 1 | EF |
| 136-1 | QQTG0524A | INSTRUCTION MANUAL | 1 | <ID> |
| 136-2 | QQTG0526A | INSTRUCTION MANUAL | 1 | <IF> |
| 137 | QQFGKN6000HA | INSTRUCTION MANUAL | 1 | EA,<IE> |
| 138 | QQFGKN6000JA | INSTRUCTION MANUAL | 1 | EP,XM,X,XP,XA |
| 138-1 | QQTG0522A | INSTRUCTION MANUAL | 1 | <IB> |
| 138-2 | QQTG0527A | INSTRUCTION MANUAL | 1 | <IG> |
| 139 | QQFGKN6000KA | INSTRUCTION MANUAL | 1 | EH |
| 139-1 | QQTG0525A | INSTRUCTION MANUAL | 1 | <IH> |
| 139-2 | QQTG0524A | INSTRUCTION MANUAL | 1 | <ID> |
| 139-3 | QQTG0523A | INSTRUCTION MANUAL | 1 | <IE> |
| 150 | SJP5213-2 | ATTACHMENT PLUG | 1 | ⚠ X,XT,XP |
| 151 | QMAG0258AA | COVER | 1 | X,XS,XD,XT,XA |
| 161 | STBG1101AK | WHITE KEY(C,F) | 10 | |
| 162 | STBG1111AK | WHITE KEY(D) | 5 | |
| 163 | STBG1121AK | WHITE KEY(E,B) | 10 | |
| 164 | STBG1131AK | WHITE KEY(G) | 5 | |
| 165 | STBG1141AK | WHITE KEY(A) | 5 | |
| 166 | STBG1151AK | WHITE KEY(CC) | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| 167 | STBG2071AK | BLACK KEY | 25 | |
| 168 | QMWG6009BAK | 13KEYS RUBBER SWITH | 1 | |
| 169 | QMWG6010BAK | 13KEYS RUBBER SWITH | 4 | |
| 170 | QMFG4176AAK | CUSHION | 1 | |
| 171 | QMRG2074AAK | CUSHION | 1 | |
| 172 | QMWG5003BA | AFTER TOUCH SENSOR | 1 | |
| 174 | XTW3+10T | SCREW | 37 | |
| 185 | SHGG9052A | KEY GUIDE RUBBER | 61 | |
| 186 | QMFG1120CA | FELT | 1 | |
| PCB1 | SXPG232011 | MAIN P.C.B | 1 | EN,EZ,EK,EW,EF,EA,EP,EH |
| PCB1 | SXPG232011 | MAIN P.C.B | 1 | X,XM,XL,XR,XS,XD,XT,XP,XW |
| PCB1 | SXPG232011 | MAIN P.C.B | 1 | XA |
| PCB1 | SXPG232021 | MAIN P.C.B | 1 | M,MC |
| PCB2 | SXPG232111A | CPL P.C.B | 1 | |
| PCB2 | SXPG232111B | CPC P.C.B | 1 | |
| PCB3 | SXPG232111C | CPR P.C.B | 1 | |
| PCB4 | SXPG232111D | CNB P.C.B | 1 | |
| PCB5 | SXPG232111E | ROT P.C.B | 1 | |
| PCB6 | SXPG232211A | FAJ P.C.B | 1 | EN,EZ,EK,EW,EF,EA,EP,EH |
| PCB6 | SXPG232221A | FAJ P.C.B | 1 | M,MC,XM |
| PCB6 | SXPG232211A | FAJ P.C.B | 1 | X,XL,XR,XS,XD,XT,XP,XW,XA |
| PCB7 | SXPG232211B | JACK P.C.B | 1 | |
| PCB8 | SXPG232311A | ASUB P.C.B | 1 | |
| PCB9 | SXPG232311B | INV P.C.B | 1 | |
| PCB10 | SXPG232411A | MKB1 P.C.B | 1 | |
| PCB11 | SXPG232411B | MKB2 P.C.B | 1 | |
| PCB12 | SXPG232511 | MKB3 P.C.B | 1 | |
| PCB13 | SXPG232811A | LCDL P.C.B | 1 | |
| PCB14 | SXPG232811B | LCDR P.C.B | 1 | |
| PCB15 | SXPG232811C | LCDC P.C.B | 1 | |
| PCB16 | SXPG232811D | HB P.C.B | 1 | |
| PCB17 | SXPG232811E | MB P.C.B | 1 | |
| PCB18 | SXPG232911 | ACP P.C.B | 1 | EN,EZ,EK,EW,EF,EA,EP,EH |
| PCB18 | SXPG232911 | ACP P.C.B | 1 | XL,XR,XP,XW |
| PCB18 | SXPG232921 | ACP P.C.B | 1 | M,MC,XM |
| PCB18 | SXPG232931 | ACP P.C.B | 1 | X,XS,XD,XT,XA |
| | | | | |
| C1 | ECEA0JKA221 | 220UF,6.3V | 1 | INV |
| C1 | ECEA0JKA470 | 47UF,6.3V | 1 | MKB2 |
| C1 | ECKCVA1472MF | 4700PF | 1 | ⚠ ACP |
| C1 | ECQB1H333JF | 0.033UF | 1 | HB |
| C1 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C1 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C1 | QCBG1H104ZFA | 0.1UF | 1 | CPL |
| C2 | ECQB1H333JF | 0.033UF | 1 | HB |
| C2 | ECQU2A104MN | 0.1UF,250V | 1 | ⚠ ACP |
| C2 | ECQV1H104JM | 0.1UF | 1 | INV |
| C2 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C2 | QCBG1H104ZFA | 0.1UF | 1 | CPL |
| C2 | QCBG1H104ZFA | 0.1UF | 1 | MKB2 |
| C2 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C3 | ECCW3F180JGE | 18PF | 1 | ⚠ INV |
| C3 | ECUV1C224KBX | 0.22UF | 1 | MAIN |
| C3 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C3 | QCBG1H104ZFA | 0.1UF | 1 | HB |
| C3 | QCBG1H104ZFA | 0.1UF | 1 | MKB2 |
| C4 | ECEA0JKA470 | 47UF,6.3V | 1 | CPL |
| C4 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C4 | ECUV1H104ZFX | 0.1UF | 1 | INV |
| C4 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C4 | QCBG1H104ZFA | 0.1UF | 1 | MKB2 |
| C5 | ECBT1H470J | 47PF | 1 | MKB2 |
| C5 | ECEA0JKA221 | 220UF,6.3V | 1 | CPL |
| C5 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |

SX-KN6000

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C5 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C6 | ECBT1H470J | 47PF | 1 | CPL |
| C6 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C6 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C6 | ECBT1H470J | 47PF | 1 | MKB2 |
| C7 | ECBT1H470J | 47PF | 1 | CPL |
| C7 | ECEA1CKA100 | 10UF,16V | 1 | FAJ |
| C7 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C7,8 | ECBT1H470J | 47PF | 2 | MKB2 |
| C8 | ECEA1CKA100 | 10UF,16V | 1 | FAJ |
| C8 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C8 | QCBG1H104ZFA | 0.1UF | 1 | CPL |
| C9 | ECBT1H470J | 47PF | 1 | MKB2 |
| C9 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C9 | QCBG1H104ZFA | 0.1UF | 1 | CPL |
| C9 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C10 | ECBT1H470J | 47PF | 1 | MKB2 |
| C10 | ECEA1EKA470 | 47UF,25V | 1 | ASUB |
| C10 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C10 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C10 | QCBG1H104ZFA | 0.1UF | 1 | CPL |
| C11 | ECBT1H470J | 47PF | 1 | MKB2 |
| C11 | ECEA1EKA470 | 47UF,25V | 1 | ASUB |
| C11 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C11 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C11 | QCBG1H104ZFA | 0.1UF | 1 | CPL |
| C12 | ECBT1H470J | 47PF | 1 | MKB2 |
| C12 | ECEA1EKA470 | 47UF,25V | 1 | ASUB |
| C12 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C12 | QCBG1H104ZFA | 0.1UF | 1 | CPL |
| C12 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C13 | ECEA1EKA470 | 47UF,25V | 1 | ASUB |
| C13 | ECQE1A104M6 | 0.1UF,125V | 1 | ⚠ FAJ |
| C13 | ECUV1H103KBG | 0.01UF | 1 | MAIN |
| C13 | QCBG1H104ZFA | 0.1UF | 1 | MKB3 |
| C13 | QCBG1H104ZFA | 0.1UF | 1 | CPL |
| C14 | ECA1EM101 | 100UF,25V | 1 | ASUB |
| C14 | ECQV1H683JM | 0.068UF | 1 | FAJ |
| C14 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C14 | QCBG1H104ZFA | 0.1UF | 1 | CPL |
| C15 | ECQV1H683JM | 0.068UF | 1 | FAJ |
| C15 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C15 | QCBG1H104ZFA | 0.1UF | 1 | CPL |
| C16 | ECA1EM472E | 4700UF,25V | 1 | FAJ |
| C16 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C16 | QCBG1H104ZFA | 0.1UF | 1 | CPL |
| C17 | ECA1EM472E | 4700UF,25V | 1 | FAJ |
| C17 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C17 | QCBG1H104ZFA | 0.1UF | 1 | CPL |
| C18 | ECA1EM472E | 4700UF,25V | 1 | FAJ |
| C18 | ECUV1H030CCN | 3PF | 1 | MAIN |
| C19 | ECA1EM472E | 4700UF,25V | 1 | FAJ |
| C19 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C21,22 | ECQV1H104JM | 0.1UF | 2 | FAJ |
| C21-23 | ECUV1H104ZFX | 0.1UF | 3 | MAIN |
| C23 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C24 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C24 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C25,26 | ECQV1H104JM | 0.1UF | 2 | FAJ |
| C26 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C27 | ECCR1H220J | 22PF | 1 | FAJ |
| C27 | ECUV1H680JG | 68PF | 1 | MAIN |
| C28 | ECEA1CKA100 | 10UF,16V | 1 | FAJ |
| C28,29 | ECUV1H104ZFX | 0.1UF | 2 | MAIN |
| C29 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C30 | ECBT1H102KB | 0.001UF | 1 | CPC |
| C30 | ECCR1H220J | 22PF | 1 | FAJ |
| C30 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C31 | ECBT1H102KB | 0.001UF | 1 | CPC |
| C31 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C31 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C32 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C32 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C33 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C33 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C34 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C34 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C35 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C35 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C36 | ECQB1H223JF | 0.022UF | 1 | FAJ |
| C36 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C37 | ECQB1H473JF | 0.047UF | 1 | FAJ |
| C38 | ECQB1H223JF | 0.022UF | 1 | FAJ |
| C38 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C39 | ECQB1H473JF | 0.047UF | 1 | FAJ |
| C39,40 | ECUV1H104ZFX | 0.1UF | 2 | MAIN |
| C40 | QCBG1H104ZFA | 0.1UF | 1 | CPR |
| C41 | ECA1CM101 | 100UF,16V | 1 | FAJ |
| C41 | ECUV1H221JG | 220PF | 1 | MAIN |
| C41 | QCBG1H104ZFA | 0.1UF | 1 | CPR |
| C42 | ECEA0JKA221 | 220UF,6.3V | 1 | CPR |
| C42 | ECQG1H472KZT | 0.0047UF | 1 | FAJ |
| C43 | ECEA0JKA470 | 47UF,6.3V | 1 | CPR |
| C43 | ECQB1H473JF | 0.047UF | 1 | FAJ |
| C43 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C44 | ECQG1H472KZ | 0.0047UF | 1 | FAJ |
| C45 | ECBT1H470J | 47PF | 1 | CPR |
| C45 | ECQB1H473JF | 0.047UF | 1 | FAJ |
| C46 | ECBT1H470J | 47PF | 1 | CPR |
| C46 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C47 | ECEA1HKN010 | 1UF,50V | 1 | FAJ |
| C47 | QCBG1H104ZFA | 0.1UF | 1 | CPR |
| C48 | ECEA1HKN010 | 1UF,50V | 1 | FAJ |
| C48 | QCBG1H104ZFA | 0.1UF | 1 | CPR |
| C49 | ECQB1H333JF | 0.033UF | 1 | FAJ |
| C49 | QCBG1H104ZFA | 0.1UF | 1 | CPR |
| C50 | ECQG1H222KZ | 0.0022UF | 1 | FAJ |
| C51 | ECQB1H333JF | 0.033UF | 1 | FAJ |
| C52 | ECQG1H222KZ | 0.0022UF | 1 | FAJ |
| C53 | ECQG1H682KZ | 0.0068UF | 1 | FAJ |
| C54 | ECEA0JKA470 | 47UF,6.3V | 1 | FAJ |
| C55 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C57 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C58 | ECCR1H470J | 47PF | 1 | FAJ |
| C59 | ECQG1H332KZ | 0.0033UF | 1 | FAJ |
| C60 | ECQG1H222KZ | 0.0022UF | 1 | FAJ |
| C61 | ECQG1H332KZ | 0.0033UF | 1 | FAJ |
| C62 | ECQG1H222KZ | 0.0022UF | 1 | FAJ |
| C63-66 | QCBG1H104ZFA | 0.1UF | 4 | FAJ |
| C67 | ECBT1H221KB | 220PF | 1 | FAJ |
| C68 | ECEA1HKN010 | 1UF,50V | 1 | FAJ |
| C69 | ECCR1H151J | 150PF | 1 | FAJ |
| C70,71 | QCBG1H104ZFA | 0.1UF | 2 | FAJ |
| C72 | ECCR1H151J | 150PF | 1 | FAJ |
| C73 | ECEA1HKN010 | 1UF,50V | 1 | FAJ |
| C74 | ECQG1H472KZ | 0.0047UF | 1 | FAJ |
| C75 | ECEA1HKN010 | 1UF,50V | 1 | FAJ |
| C76 | ECQG1H472KZ | 0.0047UF | 1 | FAJ |
| C77,78 | ECQV1H683JM | 0.068UF | 2 | FAJ |
| C79 | ECCR1H471J | 470PF | 1 | FAJ |
| C80,81 | ECQV1H683JM | 0.068UF | 2 | FAJ |
| C82 | ECQB1H473JF | 0.047UF | 1 | FAJ |
| C83 | ECQB1H223JF | 0.022UF | 1 | FAJ |
| C84 | ECCR1H471J | 470PF | 1 | FAJ |
| C85 | ECEA1CKN100 | 10UF,16V | 1 | FAJ |
| C86,87 | ECQV1H104JM | 0.1UF | 2 | FAJ |
| C88 | ECCR1H470J | 47PF | 1 | FAJ |
| C89,90 | QCBG1H104ZFA | 0.1UF | 2 | FAJ |
| C91 | ECCR1H470J | 47PF | 1 | FAJ |
| C92 | ECEA1CKA100 | 10UF,16V | 1 | FAJ |
| C93 | ECA1CM101 | 100UF,16V | 1 | FAJ |
| C94-96 | ECCR1H221J | 220PF | 3 | FAJ |
| C97 | ECEA1CKN100 | 10UF,16V | 1 | FAJ |
| C98 | ECQG1H472KZ | 0.0047UF | 1 | FAJ |
| C99 | ECEA1CKN100 | 10UF,16V | 1 | FAJ |
| C100,01 | ECQG1H472KZ | 0.0047UF | 2 | FAJ |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C101 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C102 | ECQG1H332KZ | 0.0033UF | 1 | FAJ |
| C102 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C103 | ECEA0JKA101 | 100UF,6.3V | 1 | MAIN |
| C103 | ECQG1H332KZ | 0.0033UF | 1 | FAJ |
| C104 | ECQG1H472KZ | 0.0047UF | 1 | FAJ |
| C104 | ECUV1H470JG | 47PF | 1 | MAIN |
| C105 | ECQG1H472KZ | 0.0047UF | 1 | FAJ |
| C105 | ECUV1H470JG | 47PF | 1 | MAIN |
| C106 | ECQV1H105JM | 1UF | 1 | FAJ |
| C106 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C107 | ECQV1H105JM | 1UF | 1 | FAJ |
| C107 | ECUV1H333KBX | 0.033UF | 1 | MAIN |
| C108 | ECA1EM102E | 1000UF,25V | 1 | FAJ |
| C108 | ECUV1H333KBX | 0.033UF | 1 | MAIN |
| C109 | ECA1EM102E | 1000UF,25V | 1 | FAJ |
| C109 | ECUV1H103KBG | 0.01UF | 1 | MAIN |
| C110 | ECQV1H105JM | 1UF | 1 | FAJ |
| C110 | ECUV1H472KBG | 4700PF | 1 | MAIN |
| C111 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C112 | ECUV1H100DCN | 10PF | 1 | MAIN |
| C113 | ECUV1H182JX | 1800PF | 1 | MAIN |
| C114 | ECEA50Y1R5K | 1.5UF,50V | 1 | FAJ |
| C114 | ECUV1H223KBX | 0.022UF | 1 | MAIN |
| C115 | ECEA50Y1R5K | 1.5UF,50V | 1 | FAJ |
| C115 | ECUV1H100DCN | 10PF | 1 | MAIN |
| C116 | ECQG1H472KZT | 0.0047UF | 1 | FAJ |
| C116,17 | ECUV1H101JG | 100PF | 2 | MAIN |
| C117 | QCBG1H104ZFA | 0.1UF | 1 | FAJ |
| C118,19 | ECUV1H104ZFX | 0.1UF | 2 | MAIN |
| C122-31 | ECUV1H104ZFX | 0.1UF | 10 | MAIN |
| C201 | ECUV1H470JG | 47PF | 1 | MAIN |
| C201-05 | QCBG1H104ZFA | 0.1UF | 5 | JACK |
| C206 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C206 | QCBG1H104ZFA | 0.1UF | 1 | JACK |
| C207 | ECUV1H100DCN | 10PF | 1 | MAIN |
| C207 | QCBG1H104ZFA | 0.1UF | 1 | JACK |
| C208 | ECUV1H100DCN | 10PF | 1 | MAIN |
| C209,10 | ECUV1H104ZFX | 0.1UF | 2 | MAIN |
| C210 | QCBG1H104ZFA | 0.1UF | 1 | JACK |
| C211 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C211 | QCBG1H104ZFA | 0.1UF | 1 | JACK |
| C212-25 | ECUV1H104ZFX | 0.1UF | 14 | MAIN |
| C301-03 | ECUV1H104ZFX | 0.1UF | 3 | MAIN |
| C304,05 | ECUV1H030CCN | 3PF | 2 | MAIN |
| C306-29 | ECUV1H104ZFX | 0.1UF | 24 | MAIN |
| C330 | EECS5R5V105 | 1F,5.5V | 1 | MAIN |
| C331 | ECEA0JKA101 | 100UF,6.3V | 1 | MAIN |
| C332 | EECS5R5V105 | 1F,5.5V | 1 | MAIN |
| C333 | ECRR1H104ZF | 0.1UF | 1 | MAIN |
| C334,35 | ECUV1H104ZFX | 0.1UF | 2 | MAIN |
| C336,37 | ECUV1H471JG | 470PF | 2 | MAIN |
| C338 | ECA0JM102 | 1000UF,6.3V | 1 | MAIN |
| C339-41 | ECUV1H104ZFX | 0.1UF | 3 | MAIN |
| C342,43 | ECEA1CKA100 | 10UF,16V | 2 | MAIN |
| C344 | ECUV1H102JX | 0.001UF | 1 | MAIN |
| C345,46 | ECUV1H104ZFX | 0.1UF | 2 | MAIN |
| C347 | ECEA0JKA101 | 100UF,6.3V | 1 | MAIN |
| C348,49 | ECEA1CKA100 | 10UF,16V | 2 | MAIN |
| C350 | ECUV1H472KBG | 0.0047UF | 1 | MAIN |
| C351 | ECUV1C224KBX | 0.22UF | 1 | MAIN |
| C352,53 | ECUV1H151JG | 150PF | 2 | MAIN |
| C354 | ECEA1CKA100 | 10UF,16V | 1 | MAIN |
| C355 | ECA0JM102 | 1000UF,6.3V | 1 | MAIN |
| C356,57 | ECRR1H104ZF | 0.1UF | 2 | MAIN |
| C358,59 | ECUV1H104ZFX | 0.1UF | 2 | MAIN |
| C360 | ECUV1H102JX | 1000PF | 1 | MAIN |
| C361 | ECEA1CKA100 | 10UF,16V | 1 | MAIN |
| C362 | ECUV1H104ZFX | 0.1UF | 1 | MAIN |
| C363 | ECA1EM101 | 100UF,25V | 1 | MAIN |
| C364 | ECUV1C224KBX | 0.22UF | 1 | MAIN |
| C365-70 | ECUV1H104ZFX | 0.1UF | 6 | MAIN |
| C371,72 | ECUV1H102JX | 0.001UF | 2 | MAIN |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| | | | | |
| D1 | MA165TA5 | DIODE | 1 | FAJ |
| D1 | MA165TA5 | DIODE | 1 | MKB1 |
| D1 | MA165TA5 | DIODE | 1 | LCDL |
| D2 | MA111 | DIODE | 1 | MAIN |
| D2 | MA165TA5 | DIODE | 1 | MKB1 |
| D2 | MA165TA5 | DIODE | 1 | FAJ |
| D2 | MA165TA5 | DIODE | 1 | LCDL |
| D3 | ERA1502V5 | DIODE | 1 | FAJ |
| D3 | MA111 | DIODE | 1 | MAIN |
| D3 | MA165TA5 | DIODE | 1 | MKB1 |
| D3 | MA165TA5 | DIODE | 1 | LCDL |
| D4 | ERA1502V5 | DIODE | 1 | FAJ |
| D4 | MA111 | DIODE | 1 | MAIN |
| D4 | MA165TA5 | DIODE | 1 | MKB1 |
| D4 | MA165TA5 | DIODE | 1 | LCDL |
| D5 | MA165TA5 | DIODE | 1 | MKB1 |
| D5 | MA165TA5 | DIODE | 1 | LCDL |
| D5 | SVDGS3V20-15 | DIODE | 1 | ⚠ FAJ |
| D6 | MA165TA5 | DIODE | 1 | MKB1 |
| D6 | MA165TA5 | DIODE | 1 | LCDL |
| D6 | SVDGS3V20-15 | DIODE | 1 | ⚠ FAJ |
| D7 | MA165TA5 | DIODE | 1 | MKB1 |
| D7 | MA165TA5 | DIODE | 1 | CPL |
| D7 | SVDGS3V20-15 | DIODE | 1 | ⚠ FAJ |
| D8 | MA165TA5 | DIODE | 1 | MKB1 |
| D8 | MA165TA5 | DIODE | 1 | CPL |
| D8 | SVDGS3V20-15 | DIODE | 1 | ⚠ FAJ |
| D9 | MA165TA5 | DIODE | 1 | MKB1 |
| D9 | MA165TA5 | DIODE | 1 | FAJ |
| D9 | MA165TA5 | DIODE | 1 | LCDL |
| D10 | MA165TA5 | DIODE | 1 | MKB1 |
| D10 | MA165TA5 | DIODE | 1 | FAJ |
| D10 | MA165TA5 | DIODE | 1 | LCDL |
| D11 | MA165TA5 | DIODE | 1 | MKB1 |
| D11 | MA165TA5 | DIODE | 1 | LCDL |
| D11 | MA165TA5 | DIODE | 1 | FAJ |
| D12 | MA165TA5 | DIODE | 1 | MKB1 |
| D12 | MA165TA5 | DIODE | 1 | FAJ |
| D12 | MA165TA5 | DIODE | 1 | LCDL |
| D13 | MA165TA5 | DIODE | 1 | MKB1 |
| D13 | MA165TA5 | DIODE | 1 | FAJ |
| D13 | MA165TA5 | DIODE | 1 | LCDL |
| D14 | MA165TA5 | DIODE | 1 | FAJ |
| D14 | MA165TA5 | DIODE | 1 | MKB1 |
| D14 | MA165TA5 | DIODE | 1 | LCDL |
| D15 | MA165TA5 | DIODE | 1 | MKB1 |
| D15 | MA165TA5 | DIODE | 1 | FAJ |
| D15 | MA165TA5 | DIODE | 1 | CPL |
| D16 | MA165TA5 | DIODE | 1 | MKB1 |
| D16 | MA165TA5 | DIODE | 1 | FAJ |
| D16 | MA165TA5 | DIODE | 1 | CPL |
| D17 | MA165TA5 | DIODE | 1 | MKB1 |
| D17 | MA165TA5 | DIODE | 1 | FAJ |
| D17 | MA165TA5 | DIODE | 1 | LCDL |
| D18 | MA165TA5 | DIODE | 1 | FAJ |
| D18 | MA165TA5 | DIODE | 1 | MKB1 |
| D18 | MA165TA5 | DIODE | 1 | LCDL |
| D19 | EK04 | DIODE | 1 | FAJ |
| D19 | MA165TA5 | DIODE | 1 | MKB1 |
| D19 | MA165TA5 | DIODE | 1 | LCDL |
| D20 | EK04 | DIODE | 1 | FAJ |
| D20 | MA165TA5 | DIODE | 1 | MKB1 |
| D20 | MA165TA5 | DIODE | 1 | LCDL |
| D21 | MA165TA5 | DIODE | 1 | MKB1 |
| D21 | MA165TA5 | DIODE | 1 | LCDL |
| D21 | MA4150M | DIODE | 1 | FAJ |
| D22 | MA165TA5 | DIODE | 1 | FAJ |
| D22 | MA165TA5 | DIODE | 1 | MKB1 |
| D22 | MA165TA5 | DIODE | 1 | LCDL |
| D23 | MA165TA5 | DIODE | 1 | MKB1 |
| D23 | MA165TA5 | DIODE | 1 | FAJ |
| D23 | MA165TA5 | DIODE | 1 | CPL |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| D24 | EK04 | DIODE | 1 | FAJ |
| D24 | MA165TA5 | DIODE | 1 | MKB1 |
| D24 | MA165TA5 | DIODE | 1 | CPL |
| D25 | MA165TA5 | DIODE | 1 | MKB1 |
| D25 | MA165TA5 | DIODE | 1 | LCDL |
| D25 | MA4075L | DIODE | 1 | FAJ |
| D26 | MA165TA5 | DIODE | 1 | MKB1 |
| D26 | MA165TA5 | DIODE | 1 | LCDL |
| D27 | MA165TA5 | DIODE | 1 | MKB1 |
| D27 | MA165TA5 | DIODE | 1 | LCDL |
| D28 | MA165TA5 | DIODE | 1 | MKB1 |
| D28 | MA165TA5 | DIODE | 1 | LCDL |
| D29 | MA165TA5 | DIODE | 1 | MKB1 |
| D29 | MA165TA5 | DIODE | 1 | LCDL |
| D30 | MA165TA5 | DIODE | 1 | MKB1 |
| D30 | MA165TA5 | DIODE | 1 | LCDL |
| D31 | MA165TA5 | DIODE | 1 | MKB1 |
| D31 | MA165TA5 | DIODE | 1 | LCDL |
| D32 | MA165TA5 | DIODE | 1 | MKB1 |
| D32 | MA165TA5 | DIODE | 1 | LCDC |
| D33 | MA165TA5 | DIODE | 1 | MKB1 |
| D33 | MA165TA5 | DIODE | 1 | LCDC |
| D34 | MA165TA5 | DIODE | 1 | MKB1 |
| D34 | MA165TA5 | DIODE | 1 | LCDC |
| D35 | MA165TA5 | DIODE | 1 | MKB1 |
| D35 | MA165TA5 | DIODE | 1 | LCDC |
| D36 | MA165TA5 | DIODE | 1 | MKB1 |
| D36 | MA165TA5 | DIODE | 1 | LCDC |
| D37 | MA165TA5 | DIODE | 1 | MKB1 |
| D37 | MA165TA5 | DIODE | 1 | LCDC |
| D38 | MA165TA5 | DIODE | 1 | MKB1 |
| D38 | MA165TA5 | DIODE | 1 | LCDC |
| D39 | MA165TA5 | DIODE | 1 | MKB1 |
| D39 | MA165TA5 | DIODE | 1 | LCDC |
| D40 | EK04 | DIODE | 1 | FAJ |
| D40 | MA165TA5 | DIODE | 1 | MKB1 |
| D40 | MA165TA5 | DIODE | 1 | LCDC |
| D41 | MA165TA5 | DIODE | 1 | MKB1 |
| D41 | MA165TA5 | DIODE | 1 | LCDC |
| D42 | MA165TA5 | DIODE | 1 | MKB1 |
| D42 | MA165TA5 | DIODE | 1 | LCDC |
| D43 | MA165TA5 | DIODE | 1 | MKB1 |
| D43 | MA165TA5 | DIODE | 1 | LCDC |
| D44 | MA165TA5 | DIODE | 1 | MKB1 |
| D44 | MA165TA5 | DIODE | 1 | LCDC |
| D45 | MA165TA5 | DIODE | 1 | MKB1 |
| D45 | MA165TA5 | DIODE | 1 | LCDC |
| D46 | MA165TA5 | DIODE | 1 | MKB1 |
| D46 | MA165TA5 | DIODE | 1 | LCDC |
| D47 | MA165TA5 | DIODE | 1 | MKB1 |
| D47 | MA165TA5 | DIODE | 1 | LCDC |
| D48 | MA165TA5 | DIODE | 1 | MKB1 |
| D48 | MA165TA5 | DIODE | 1 | LCDC |
| D49 | MA165TA5 | DIODE | 1 | LCDC |
| D49 | MA165TA5 | DIODE | 1 | MKB2 |
| D50 | MA165TA5 | DIODE | 1 | MKB2 |
| D50 | MA165TA5 | DIODE | 1 | LCDC |
| D51 | MA165TA5 | DIODE | 1 | MKB2 |
| D51 | MA165TA5 | DIODE | 1 | LCDC |
| D52 | MA165TA5 | DIODE | 1 | MKB2 |
| D52 | MA165TA5 | DIODE | 1 | LCDC |
| D53 | MA165TA5 | DIODE | 1 | MKB2 |
| D53 | MA165TA5 | DIODE | 1 | LCDC |
| D54 | MA165TA5 | DIODE | 1 | MKB2 |
| D54 | MA165TA5 | DIODE | 1 | LCDC |
| D55 | MA165TA5 | DIODE | 1 | MKB2 |
| D55 | MA165TA5 | DIODE | 1 | LCDC |
| D56 | MA165TA5 | DIODE | 1 | MKB2 |
| D56 | MA165TA5 | DIODE | 1 | LCDC |
| D57 | MA165TA5 | DIODE | 1 | MKB2 |
| D57 | MA165TA5 | DIODE | 1 | LCDC |
| D58 | MA165TA5 | DIODE | 1 | MKB2 |
| D58 | MA165TA5 | DIODE | 1 | LCDC |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| D59 | MA165TA5 | DIODE | 1 | MKB2 |
| D59 | MA165TA5 | DIODE | 1 | LCDC |
| D60 | MA165TA5 | DIODE | 1 | MKB2 |
| D60 | MA165TA5 | DIODE | 1 | LCDC |
| D61 | MA165TA5 | DIODE | 1 | MKB2 |
| D61 | MA165TA5 | DIODE | 1 | LCDC |
| D62 | MA165TA5 | DIODE | 1 | MKB2 |
| D62 | MA165TA5 | DIODE | 1 | LCDC |
| D63 | MA165TA5 | DIODE | 1 | MKB2 |
| D63 | MA165TA5 | DIODE | 1 | LCDC |
| D64 | MA165TA5 | DIODE | 1 | MKB2 |
| D64 | MA165TA5 | DIODE | 1 | LCDC |
| D65 | MA165TA5 | DIODE | 1 | MKB2 |
| D65 | MA165TA5 | DIODE | 1 | LCDC |
| D66 | MA165TA5 | DIODE | 1 | MKB2 |
| D66 | MA165TA5 | DIODE | 1 | LCDC |
| D67 | MA165TA5 | DIODE | 1 | MKB2 |
| D67 | MA165TA5 | DIODE | 1 | LCDC |
| D68 | MA165TA5 | DIODE | 1 | MKB2 |
| D68 | MA165TA5 | DIODE | 1 | LCDC |
| D69 | MA165TA5 | DIODE | 1 | MKB2 |
| D69 | MA165TA5 | DIODE | 1 | LCDC |
| D70 | MA165TA5 | DIODE | 1 | MKB2 |
| D70 | MA165TA5 | DIODE | 1 | CPL |
| D71 | MA165TA5 | DIODE | 1 | MKB2 |
| D71 | MA165TA5 | DIODE | 1 | CPL |
| D72 | MA165TA5 | DIODE | 1 | MKB2 |
| D72 | MA165TA5 | DIODE | 1 | CPL |
| D73 | MA165TA5 | DIODE | 1 | MKB2 |
| D73 | MA165TA5 | DIODE | 1 | CPL |
| D74 | MA165TA5 | DIODE | 1 | MKB2 |
| D74 | MA165TA5 | DIODE | 1 | CPL |
| D75 | MA165TA5 | DIODE | 1 | MKB2 |
| D75 | MA165TA5 | DIODE | 1 | CPL |
| D76 | MA165TA5 | DIODE | 1 | MKB2 |
| D76 | MA165TA5 | DIODE | 1 | CPL |
| D77 | MA165TA5 | DIODE | 1 | MKB2 |
| D77 | MA165TA5 | DIODE | 1 | CPL |
| D78 | MA165TA5 | DIODE | 1 | MKB2 |
| D78 | MA165TA5 | DIODE | 1 | CPL |
| D79-96 | MA165TA5 | DIODE | 24 | MKB2 |
| D97-101 | MA165TA5 | DIODE | 33 | MKB3 |
| D101 | LN282RPXVTX2 | LED | 1 | LCDL |
| D101 | MA152WKTX | DIODE | 1 | MAIN |
| D102 | LN282RPXVTX2 | LED | 1 | LCDL |
| D102 | MA152WK | DIODE | 1 | MAIN |
| D102 | MA165TA5 | DIODE | 1 | MKB3 |
| D103 | LN282RPXVTX2 | LED | 1 | LCDL |
| D103 | MA152WA | DIODE | 1 | MAIN |
| D103 | MA165TA5 | DIODE | 1 | MKB3 |
| D104 | LN282RPXVTX2 | LED | 1 | LCDL |
| D104 | MA152WA | DIODE | 1 | MAIN |
| D104,05 | MA165TA5 | DIODE | 2 | MKB3 |
| D106 | LN282RPXVTX3 | LED | 1 | LCDC |
| D106-08 | MA165TA5 | DIODE | 3 | MKB3 |
| D109 | LN282RPXVTX2 | LED | 1 | LCDL |
| D109 | MA165TA5 | DIODE | 1 | MKB3 |
| D110 | LN282RPXVTX2 | LED | 1 | LCDL |
| D110 | MA165TA5 | DIODE | 1 | MKB3 |
| D111 | LN282RPXVTX2 | LED | 1 | LCDL |
| D111 | MA165TA5 | DIODE | 1 | MKB3 |
| D112 | LN282RPXVTX2 | LED | 1 | LCDL |
| D112-18 | MA165TA5 | DIODE | 7 | MKB3 |
| D119 | LN282RPXVTX2 | LED | 1 | LCDL |
| D119 | MA165TA5 | DIODE | 1 | MKB3 |
| D120 | LN282RPXVTX2 | LED | 1 | LCDL |
| D120 | MA165TA5 | DIODE | 1 | MKB3 |
| D121 | LN282RPXVTX2 | LED | 1 | LCDL |
| D121 | MA165TA5 | DIODE | 1 | MKB3 |
| D122 | LN282RPXVTX2 | LED | 1 | LCDL |
| D122 | MA165TA5 | DIODE | 1 | MKB3 |
| D125 | LN382GPXVTX3 | LED | 1 | LCDL |
| D126 | LN282RPXVTX3 | LED | 1 | CPL |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| D127 | LN282RPXVTX2 | LED | 1 | LCDL |
| D127 | LN282RPXVTX3 | LED | 1 | CPL |
| D128 | LN282RPXVTX2 | LED | 1 | LCDL |
| D128 | LN282RPXVTX3 | LED | 1 | CPL |
| D129 | LN382GPXVTX2 | LED | 1 | LCDL |
| D129 | LN382GPXVTX3 | LED | 1 | CPL |
| D130 | LN382GPXVTX2 | LED | 1 | LCDL |
| D130 | LN382GPXVTX3 | LED | 1 | CPL |
| D131-33 | LN382GPXVTX2 | LED | 3 | LCDL |
| D134 | LN282RPXVTX2 | LED | 1 | LCDL |
| D201 | MA165TA5 | DIODE | 1 | LCDR |
| D201 | MA165TA5 | DIODE | 1 | JACK |
| D202 | MA165TA5 | DIODE | 1 | LCDR |
| D202 | MA165TA5 | DIODE | 1 | JACK |
| D203-25 | MA165TA5 | DIODE | 23 | LCDR |
| D226-29 | MA165TA5 | DIODE | 4 | CPC |
| D230-33 | MA165TA5 | DIODE | 4 | CPR |
| D234-37 | MA165TA5 | DIODE | 4 | CPC |
| D238-41 | MA165TA5 | DIODE | 4 | CPR |
| D242-45 | MA165TA5 | DIODE | 4 | CPC |
| D246-49 | MA165TA5 | DIODE | 4 | CPR |
| D250-53 | MA165TA5 | DIODE | 4 | CPC |
| D254-57 | MA165TA5 | DIODE | 4 | CPR |
| D258-60 | MA165TA5 | DIODE | 3 | CPC |
| D261-72 | MA165TA5 | DIODE | 12 | CPR |
| D301 | LN282RPXVTX2 | LED | 1 | LCDR |
| D301 | MA2051LF | DIODE | 1 | MAIN |
| D302 | LN282RPXVTX2 | LED | 1 | LCDR |
| D302 | MA152WKTX | DIODE | 1 | MAIN |
| D303 | LN282RPXVTX2 | LED | 1 | LCDR |
| D303 | MA152WA | DIODE | 1 | MAIN |
| D304 | LN282RPXVTX2 | LED | 1 | LCDR |
| D304 | MA152WKTX | DIODE | 1 | MAIN |
| D305 | LN282RPXVTX2 | LED | 1 | LCDR |
| D306 | LN282RPXVTX2 | LED | 1 | CPR |
| D306 | SFPB-74V | DIODE | 1 | MAIN |
| D307 | LN282RPXVTX2 | LED | 1 | LCDR |
| D307 | MA111 | DIODE | 1 | MAIN |
| D308 | LN282RPXVTX2 | LED | 1 | LCDR |
| D308 | MA2062LF | DIODE | 1 | ⚠ MAIN |
| D309 | LN282RPXVTX2 | LED | 1 | LCDR |
| D309 | MA8033H | DIODE | 1 | MAIN |
| D310 | LN282RPXVTX2 | LED | 1 | LCDR |
| D310 | MA1062MTR | DIODE | 1 | MAIN |
| D311 | LN282RPXVTX2 | LED | 1 | LCDR |
| D311 | MA8056M | DIODE | 1 | MAIN |
| D312 | LN282RPXVTX2 | LED | 1 | LCDR |
| D312 | SFPB-74V | DIODE | 1 | MAIN |
| D313 | LN282RPXVTX2 | LED | 1 | LCDR |
| D313 | MA111 | DIODE | 1 | MAIN |
| D314 | LN282RPXVTX2 | LED | 1 | LCDR |
| D314 | MA8051L | DIODE | 1 | MAIN |
| D315 | LN282RPXVTX2 | LED | 1 | LCDR |
| D315 | MA8082M | DIODE | 1 | MAIN |
| D316 | LN382GPXVTX2 | LED | 1 | LCDR |
| D316 | MA111 | DIODE | 1 | MAIN |
| D317 | LN282RPXVTX2 | LED | 1 | LCDR |
| D317 | MA111 | DIODE | 1 | MAIN |
| D318-20 | LN282RPXVTX2 | LED | 3 | LCDR |
| D323-31 | LN282RPXVTX3 | LED | 9 | CPC |
| D332-34 | LN382GPXVTX3 | LED | 3 | CPC |
| D335-38 | LN282RPXVTX3 | LED | 4 | CPC |
| D339,40 | LN382GPXVTX3 | LED | 2 | CPC |
| D341-44 | LN282RPXVTX3 | LED | 4 | CPC |
| D345 | LN382GPXVTX3 | LED | 1 | CPC |
| D351-58 | LN382GPXVTX3 | LED | 8 | CPR |
| D359-68 | LN282RPXVTX3 | LED | 10 | CPR |
| D369 | LN382GPXVTX3 | LED | 1 | CPR |
| D370,71 | LN282RPXVTX3 | LED | 2 | CPR |
| D372-76 | LN382GPXVTX3 | LED | 5 | CPR |
| D377 | LN282RPXVTX3 | LED | 1 | CPR |
| | | | | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| F1 | XBA1C20NB100 | FUSE,2A 125V | 1 | ⚠ ACP,M,MC,XM |
| F1 | XBA2C12TB0L | FUSE,T125AL 250V | 1 | ⚠ ACP,X,XS,XD, XT,XA |
| F2 | XBA2C08TB0L | FUSE,T800mAL 250V | 1 | ⚠ ACP,X,XS,XD, XT,XA |
| F3 | XBA2C08TB0L | FUSE,T800mAL 250V | 1 | ⚠ ACP,EN,EZ,EK ,EW,EF,EA,EP |
| F3 | XBA2C08TB0L | FUSE,T800mAL 250V | 1 | ⚠ ACP,EH,XL,XR ,XP,XW,X,XS |
| F3 | XBA2C08TB0L | FUSE,T800mAL 250V | 1 | ⚠ ACP,XD,XT,XA |
| F4 | XBA2C25TB0L | FUSE,25A 125V | 1 | ⚠ FAJ,EN,EZ,EK ,EW,EF,EA,EP |
| F4 | XBA2C25TB0L | FUSE,25A 125V | 1 | ⚠ FAJ,EH,X,XL, XR,XS,XD,XT |
| F4 | XBA2C25TB0L | FUSE,25A 125V | 1 | ⚠ FAJ,XP,XW,XA |
| F4 | XBA1C25NB100 | FUSE,T25AL 250V | 1 | ⚠ FAJ,M,MC,XM |
| | | | | |
| IC1 | HD74LS138P | IC | 1 | MKB2 |
| IC1 | M37471M2196S | IC | 1 | CPL |
| IC1 | QCPL-260L | IC | 1 | FAJ |
| IC1 | TC74VHC138F | IC | 1 | MAIN |
| IC2 | HD74LS07P | IC | 1 | CPL |
| IC2 | HD74LS138P | IC | 1 | MKB2 |
| IC2 | M5F78M15L | IC | 1 | ⚠ FAJ |
| IC2 | TC74VHC139F | IC | 1 | MAIN |
| IC3 | M5218AL | IC | 1 | MKB3 |
| IC3 | M5F79M15L | IC | 1 | ⚠ FAJ |
| IC3 | TC74VHC139F | IC | 1 | MAIN |
| IC4 | M5218AL | IC | 1 | FAJ |
| IC4 | MN103002A | IC | 1 | MAIN |
| IC5 | M5218AL | IC | 1 | FAJ |
| IC5 | TC7SH02FU | IC | 1 | MAIN |
| IC6 | IMIFS741BZBD | IC | 1 | MAIN |
| IC6,7 | M5218AL | IC | 2 | FAJ |
| IC7 | TC7SH08FU | IC | 1 | MAIN |
| IC8 | M5218AL | IC | 1 | FAJ |
| IC8 | TC74VHC08F | IC | 1 | MAIN |
| IC9 | K16V1204CTL6 | IC | 1 | MAIN |
| IC9 | M5218AL | IC | 1 | FAJ |
| IC10 | K16V1204CTL6 | IC | 1 | MAIN |
| IC10 | M37471M2196S | IC | 1 | CPR |
| IC10 | M5218AL | IC | 1 | FAJ |
| IC11 | HD74LS138P | IC | 1 | CPR |
| IC11 | M29LV160B8TN | IC | 1 | MAIN |
| IC11 | M5218AL | IC | 1 | FAJ |
| IC12 | HD74LS07P | IC | 1 | CPR |
| IC12 | M29LV160B8TN | IC | 1 | MAIN |
| IC12 | M5218AL | IC | 1 | FAJ |
| IC13 | HD74LS07P | IC | 1 | CPR |
| IC13 | M5218AL | IC | 1 | FAJ |
| IC13 | QSIGX3C16008 | IC | 1 | MAIN |
| IC14 | M5218AL | IC | 1 | FAJ |
| IC14 | QSIGX3C16007 | IC | 1 | MAIN |
| IC15 | M5218AL | IC | 1 | FAJ |
| IC15 | QSIGX3C32021 | IC | 1 | MAIN |
| IC18 | A49BV161490T | IC | 1 | MAIN |
| IC19 | TC7W08FTE12L | IC | 1 | MAIN |
| IC20 | T55V2161FT16 | IC | 1 | MAIN |
| IC21 | TC7SH32FU | IC | 1 | MAIN |
| IC22 | TC7WH125FU | IC | 1 | MAIN |
| IC23 | TC7WH74FU | IC | 1 | MAIN |
| IC24 | T7SZ32FUT85L | IC | 1 | MAIN |
| IC101 | D72070GF3BE | IC | 1 | MAIN |
| IC102 | TC7WT241FU | IC | 1 | MAIN |
| IC103 | TC7S14FT85L | IC | 1 | MAIN |
| IC104 | TC7WT241FU | IC | 1 | MAIN |

SX-KN6000

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| IC105 | TC7SU04FT85L | IC | 1 | MAIN |
| IC106 | TC74LCX245F | IC | 1 | MAIN |
| IC107 | M5M34051FPE2 | IC | 1 | MAIN |
| IC108 | SED1354F2A | IC | 1 | MAIN |
| IC109 | T74LCX16244A | IC | 1 | MAIN |
| IC110 | LC32V4265T25 | IC | 1 | MAIN |
| IC111 | TC7SU04FT85L | IC | 1 | MAIN |
| IC112 | TC7SH08FU | IC | 1 | MAIN |
| IC202 | TC74LCX541F | IC | 1 | MAIN |
| IC203,04 | TC74VHC138F | IC | 2 | MAIN |
| IC205 | QSIGX3C64004 | IC | 1 | MAIN |
| IC206 | QSIGX3C64005 | IC | 1 | MAIN |
| IC207 | QSIGX3C64006 | IC | 1 | MAIN |
| IC208 | QSIGX3C64007 | IC | 1 | MAIN |
| IC213 | D82398GD001 | IC | 1 | MAIN |
| IC214,15 | T7SZ32FUT85L | IC | 2 | MAIN |
| IC301 | TC74VHC245F | IC | 1 | MAIN |
| IC302 | TC74VHC574F | IC | 1 | MAIN |
| IC303 | TC74VHC245F | IC | 1 | MAIN |
| IC304 | S21065LKS240 | IC | 1 | MAIN |
| IC305,06 | K16S1120DTG8 | IC | 2 | MAIN |
| IC307 | PCM1728E2K | IC | 1 | MAIN |
| IC308 | BA10393F-E2 | IC | 1 | MAIN |
| IC309 | PCM1800E-T1 | IC | 1 | MAIN |
| IC310 | M5218AFPE3 | IC | 1 | MAIN |
| IC312 | MN1382CTX | IC | 1 | MAIN |
| | | | | |
| IP1-P4 | ICP-N10T104 | IC PROTECTOR | 4 | ⚠ FAJ |
| IP5,P6 | ICP-N75T104 | IC PROTECTOR | 2 | ⚠ FAJ |
| IP7,P8 | ICP-N10T104 | IC PROTECTOR | 2 | ⚠ FAJ |
| | | | | |
| JK1 | QJJG010AA | JACK,HEADPHONE | 1 | HB |
| JK1 | QJSG016AA | JACK,MIDI THRU | 1 | FAJ |
| JK1 | SJVD0203B | JACK,AC IN | 1 | ⚠ ACP |
| JK2,3 | QJSG016AA | JACK,MIDI OUT,IN | 2 | FAJ |
| JK4 | QJJG011AA | JACK,MIC | 1 | FAJ |
| JK5 | QJJG012AA | JACK,AUX IN L | 1 | FAJ |
| JK6 | QJJG012AA | JACK,AUX IN R,R+L | 1 | FAJ |
| JK7 | QJJG012AA | JACK,LINE OUT L | 1 | FAJ |
| JK8 | QJJG012AA | JACK,LINE OUT R,R+L | 1 | FAJ |
| JK201 | QJSG017AA | JACK,COMPUTER | 1 | JACK |
| JK202,03 | QJJG012AA | JACK,FOOT SW1,2 | 2 | JACK |
| JK204 | SJSG1390A | JACK,FOOT CONTROLLER | 1 | JACK |
| JK205 | QJJG010AA | JACK,EXP PEDAL | 1 | JACK |
| | | | | |
| JP3 | ERJ6GEY0R00V | 0Ω | 1 | MAIN |
| JP6 | ERJ6GEY0R00V | 0Ω | 1 | MAIN |
| JP201 | ERJ6GEY0R00V | 0Ω | 1 | MAIN |
| JP203 | ERJ6GEY0R00V | 0Ω | 1 | MAIN |
| | | | | |
| L1 | QLBG003A | COIL | 1 | MAIN |
| L1 | QLBG005A | COIL | 1 | FAJ |
| L1 | QLQGT2T100LA | COIL | 1 | ⚠ ACP |
| L1 | QLQGT3T131LA | COIL | 1 | HB |
| L1 | QLBG005A | COIL | 1 | INV |
| L2 | QLBG005A | COIL | 1 | FAJ |
| L2 | QLBG005A | COIL | 1 | MAIN |
| L2 | QLBG005A | COIL | 1 | INV |
| L3 | QLBG005A | COIL | 1 | FAJ |
| L3 | QLBG005A | COIL | 1 | INV |
| L4 | QLBG005A | COIL | 1 | FAJ |
| L4 | QLQGT1B101KA | COIL | 1 | INV |
| L5-L9 | QLBG005A | COIL | 5 | FAJ |
| L10,11 | QLQGT3T131LA | COIL | 2 | FAJ |
| L12-15 | QLBG005A | COIL | 4 | FAJ |
| L16-19 | QLQGT3T131LA | COIL | 4 | FAJ |
| L20,21 | QLBG005A | COIL | 2 | FAJ |
| L22-24 | QLQGT1D600LA | COIL | 3 | FAJ |
| L28,29 | QLCGTKR68KA | COIL | 2 | FAJ |
| L30 | QLBG005A | COIL | 1 | FAJ |
| L36 | QLBG005A | COIL | 1 | FAJ |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| L38,39 | QLBG005A | COIL | 2 | FAJ |
| L101-05 | QLBG005A | COIL | 5 | MAIN |
| L201-06 | QLQGT3T131LA | COIL | 6 | JACK |
| L301,02 | QLQGT1T121LA | COIL | 2 | MAIN |
| L303,04 | QLBG005A | COIL | 2 | MAIN |
| | | | | |
| Q1 | 2SA1015TPE2 | TRANSISTOR | 1 | FAJ |
| Q1 | 2SA830STPB | TRANSISTOR | 1 | CPL |
| Q1 | 2SB709AR | TRANSISTOR | 1 | ASUB |
| Q1 | 2SB709AR | TRANSISTOR | 1 | MAIN |
| Q1 | 2SD592ARS | TRANSISTOR | 1 | INV |
| Q2 | 2SA1015TPE2 | TRANSISTOR | 1 | FAJ |
| Q2 | 2SA830STPB | TRANSISTOR | 1 | CPL |
| Q2 | 2SD592ARS | TRANSISTOR | 1 | INV |
| Q2 | 2SD601AQ | TRANSISTOR | 1 | ASUB |
| Q2 | 2SD601AQ | TRANSISTOR | 1 | MAIN |
| Q3 | 2SA830STPB | TRANSISTOR | 1 | CPL |
| Q3 | 2SB709AR | TRANSISTOR | 1 | ASUB |
| Q3 | 2SC1815TPE2 | TRANSISTOR | 1 | FAJ |
| Q3 | UN5216TX | TRANSISTOR | 1 | MAIN |
| Q4 | 2SA830STPB | TRANSISTOR | 1 | CPL |
| Q4 | 2SB709AR | TRANSISTOR | 1 | ASUB |
| Q4 | 2SD592ARS | TRANSISTOR | 1 | FAJ |
| Q5 | 2SA830STPB | TRANSISTOR | 1 | CPL |
| Q5 | 2SB621ARS | TRANSISTOR | 1 | FAJ |
| Q5 | 2SB709AR | TRANSISTOR | 1 | ASUB |
| Q6 | 2SA1015TPE2 | TRANSISTOR | 1 | CPL |
| Q6 | 2SD601AQ | TRANSISTOR | 1 | ASUB |
| Q7 | 2SA1015TPE2 | TRANSISTOR | 1 | CPL |
| Q7 | 2SB621ARS | TRANSISTOR | 1 | FAJ |
| Q7 | 2SD601AQ | TRANSISTOR | 1 | ASUB |
| Q8 | 2SA1015TPE2 | TRANSISTOR | 1 | CPL |
| Q8 | 2SB709AR | TRANSISTOR | 1 | ASUB |
| Q8 | SLA5007 | TRANSISTOR | 1 | FAJ |
| Q9 | 2SA1015TPE2 | TRANSISTOR | 1 | FAJ |
| Q9 | 2SD601AQ | TRANSISTOR | 1 | ASUB |
| Q10 | 2SB709AR | TRANSISTOR | 1 | ASUB |
| Q10 | 2SJ425 | TRANSISTOR | 1 | FAJ |
| Q11 | 2SD601AQ | TRANSISTOR | 1 | ASUB |
| Q11 | 2SK1188 | TRANSISTOR | 1 | FAJ |
| Q12 | 2SA1015TPE2 | TRANSISTOR | 1 | FAJ |
| Q12,13 | 2SB709AR | TRANSISTOR | 2 | ASUB |
| Q13,14 | 2SC1815TPE2 | TRANSISTOR | 2 | FAJ |
| Q14 | 2SD601AQ | TRANSISTOR | 1 | ASUB |
| Q15 | 2SB709AR | TRANSISTOR | 1 | ASUB |
| Q15 | 2SC1815TPE2 | TRANSISTOR | 1 | FAJ |
| Q16 | 2SA1015TPE2 | TRANSISTOR | 1 | FAJ |
| Q16,17 | 2SB709AR | TRANSISTOR | 2 | ASUB |
| Q17,18 | 2SC1815TPE2 | TRANSISTOR | 2 | FAJ |
| Q18 | 2SD601AQ | TRANSISTOR | 1 | ASUB |
| Q19 | 2SC1815TPE2 | TRANSISTOR | 1 | FAJ |
| Q19 | 2SD601AQ | TRANSISTOR | 1 | ASUB |
| Q20 | 2SA830STPB | TRANSISTOR | 1 | CPR |
| Q20 | 2SB709AR | TRANSISTOR | 1 | ASUB |
| Q20 | 2SC1815TPE2 | TRANSISTOR | 1 | FAJ |
| Q21 | 2SA830STPB | TRANSISTOR | 1 | CPR |
| Q21 | 2SC1815TPE2 | TRANSISTOR | 1 | FAJ |
| Q21 | 2SD601AQ | TRANSISTOR | 1 | ASUB |
| Q22 | 2SA1015TPE2 | TRANSISTOR | 1 | FAJ |
| Q22 | 2SA830STPB | TRANSISTOR | 1 | CPR |
| Q22 | 2SB709AR | TRANSISTOR | 1 | ASUB |
| Q23 | 2SA830STPB | TRANSISTOR | 1 | CPR |
| Q23 | 2SC1815TPE2 | TRANSISTOR | 1 | FAJ |
| Q23 | 2SD601AQ | TRANSISTOR | 1 | ASUB |
| Q24 | 2SA830STPB | TRANSISTOR | 1 | CPR |
| Q24 | 2SB709AR | TRANSISTOR | 1 | ASUB |
| Q24 | 2SC1815TPE2 | TRANSISTOR | 1 | FAJ |
| Q25 | 2SA830STPB | TRANSISTOR | 1 | CPR |
| Q25 | 2SB709AR | TRANSISTOR | 1 | ASUB |
| Q25 | 2SC1815TPE2 | TRANSISTOR | 1 | FAJ |
| Q26 | 2SB941 | TRANSISTOR | 1 | FAJ |
| Q26 | 2SD601AQ | TRANSISTOR | 1 | ASUB |
| Q27-29 | 2SB709AR | TRANSISTOR | 3 | ASUB |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| Q30,31 | 2SD601AQ | TRANSISTOR | 2 | ASUB |
| Q32 | 2SB709AR | TRANSISTOR | 1 | ASUB |
| Q33 | 2SD601AQ | TRANSISTOR | 1 | ASUB |
| Q34 | 2SB709AR | TRANSISTOR | 1 | ASUB |
| Q35 | 2SD601AQ | TRANSISTOR | 1 | ASUB |
| Q36 | 2SB709AR | TRANSISTOR | 1 | ASUB |
| Q101,02 | UN511NTX | TRANSISTOR | 2 | MAIN |
| Q103 | UN5216TX | TRANSISTOR | 1 | MAIN |
| Q301 | 2SB952A | TRANSISTOR | 1 | MAIN |
| Q302 | 2SC1815TPE2 | TRANSISTOR | 1 | MAIN |
| Q303 | 2SD601AQ | TRANSISTOR | 1 | MAIN |
| Q304 | 2SD592ARS | TRANSISTOR | 1 | MAIN |
| Q305 | 2SB952A | TRANSISTOR | 1 | MAIN |
| Q306 | 2SC1815TPE2 | TRANSISTOR | 1 | MAIN |
| Q307 | 2SD601AQ | TRANSISTOR | 1 | MAIN |
| Q309 | 2SB709AR | TRANSISTOR | 1 | MAIN |
| | | | | |
| R1 | ERD2FCVG471 | 470Ω,1/4W,FUSE TYPE | 1 | ⚠ ASUB |
| R1 | ERDS2TJ102 | 1KΩ | 1 | MKB3 |
| R1 | ERDS2TJ222 | 2.2KΩ | 1 | LCDC |
| R1 | ERDS2TJ333 | 33KΩ | 1 | CPL |
| R1 | ERDS2TJ680 | 68Ω | 1 | FAJ |
| R1 | ERJ6GEYJ102V | 1KΩ | 1 | MAIN |
| R1 | ERJ6GEYJ472V | 4.7KΩ | 1 | INV |
| R2 | ERDS2T0 | 0Ω | 1 | CPL |
| R2 | ERDS2TJ101 | 100Ω | 1 | MKB3 |
| R2 | ERDS2TJ472 | 4.7KΩ | 1 | LCDC |
| R2 | ERJ6GEYJ104V | 100KΩ | 1 | MAIN |
| R2 | ERJ6GEYJ472V | 4.7KΩ | 1 | INV |
| R3 | ERDS2TJ101 | 100Ω | 1 | CPL |
| R3 | ERDS2TJ472 | 4.7KΩ | 1 | MKB3 |
| R3 | ERJ6GEYJ101V | 100Ω | 1 | MAIN |
| R3 | ERX2SJ1R0E | 1Ω,2W,FLAME-PROOF | 1 | ⚠ FAJ |
| R4 | ERDS2TJ101 | 100Ω | 1 | CPL |
| R4 | ERDS2TJ472 | 4.7KΩ | 1 | MKB3 |
| R4 | ERDS2TJ680 | 68Ω | 1 | FAJ |
| R4 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R5 | ERD2FCVG471 | 470Ω,1/4W,FUSE TYPE | 1 | ⚠ ASUB |
| R5 | ERDS2TJ103 | 10KΩ | 1 | FAJ |
| R5 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R5 | EROS2TKF1001 | 1KΩ | 1 | HB |
| R5 | ERDS2TJ103 | 10KΩ | 1 | CPL |
| R6 | ERD2FCVG471 | 470Ω,1/4W,FUSE TYPE | 1 | ⚠ ASUB |
| R6 | ERDS2TJ103 | 10KΩ | 1 | FAJ |
| R6 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R6 | EROS2TKF1001 | 1KΩ | 1 | HB |
| R6 | ERDS2TJ103 | 10KΩ | 1 | CPL |
| R7 | ERDS2TJ102 | 1KΩ | 1 | CPL |
| R7 | ERDS2TJ683 | 68KΩ | 1 | FAJ |
| R7 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R8 | ERDS2TJ102 | 1KΩ | 1 | CPL |
| R8 | ERDS2TJ683 | 68KΩ | 1 | FAJ |
| R8 | ERJ6GEYJ470V | 47Ω | 1 | MAIN |
| R9 | ERDS2TJ102 | 1KΩ | 1 | CPL |
| R9 | ERDS2TJ330 | 33Ω | 1 | FAJ |
| R9 | ERJ6GEY0R00V | 0Ω | 1 | MAIN |
| R10 | ERDS2TJ102 | 1KΩ | 1 | CPL |
| R10 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R11 | ERD2FCVG471 | 470Ω,1/4W,FUSE TYPE | 1 | ⚠ ASUB |
| R11 | ERDS2TJ102 | 1KΩ | 1 | CPL |
| R11 | ERDS2TJ472 | 4.7KΩ | 1 | FAJ |
| R11 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R12 | ERDS2TJ102 | 1KΩ | 1 | CPL |
| R12 | ERDS2TJ472 | 4.7KΩ | 1 | FAJ |
| R12 | ERJ6GEYJ470V | 47Ω | 1 | MAIN |
| R13 | ERDS2TJ104 | 100KΩ | 1 | CPL |
| R13 | ERDS2TJ151 | 150Ω | 1 | FAJ |
| R13 | ERJ6GEYJ470V | 47Ω | 1 | MAIN |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R14 | ERD2FCVJ6R8 | 6.8Ω,1/4W,FUSE TYPE | 1 | ⚠ FAJ |
| R14 | ERDS2TJ103 | 10KΩ | 1 | CPL |
| R14 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R15 | ERD2FCVG100 | 10Ω,1/4W,FUSE TYPE | 1 | ⚠ FAJ |
| R15 | ERD2FCVG471 | 470Ω,1/4W,FUSE TYPE | 1 | ⚠ ASUB |
| R15 | ERDS2TJ103 | 10KΩ | 1 | CPL |
| R15 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R16 | ERD2FCVG471 | 470Ω,1/4W,FUSE TYPE | 1 | ⚠ ASUB |
| R16 | ERDS2TJ103 | 10KΩ | 1 | CPL |
| R16 | ERDS2TJ154 | 150KΩ | 1 | FAJ |
| R16 | ERJ6GEYJ103V | 10KΩ | 1 | MAIN |
| R17 | ERDS2TJ103 | 10KΩ | 1 | CPL |
| R17 | ERDS2TJ154 | 150KΩ | 1 | FAJ |
| R17 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R18 | ERDS2TJ103 | 10KΩ | 1 | CPL |
| R18 | ERDS2TJ332 | 3.3KΩ | 1 | FAJ |
| R18 | ERJ6GEY0R00V | 0Ω | 1 | MAIN |
| R19 | ERDS2TJ103 | 10KΩ | 1 | CPL |
| R19 | ERDS2TJ332 | 3.3KΩ | 1 | FAJ |
| R19 | ERJ6GEYJ105V | 1MΩ | 1 | MAIN |
| R20 | ERDS2TJ103 | 10KΩ | 1 | CPL |
| R20 | ERDS2TJ221 | 10KΩ | 1 | FAJ |
| R21 | ERD2FCVG471 | 470Ω,1/4W,FUSE TYPE | 1 | ⚠ ASUB |
| R21 | ERDS2TJ103 | 10KΩ | 1 | CPL |
| R21 | ERDS2TJ154 | 150KΩ | 1 | FAJ |
| R22 | ERDS2TJ103 | 10KΩ | 1 | CPL |
| R22 | ERDS2TJ154 | 150KΩ | 1 | FAJ |
| R22 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R23 | ERDS2TJ103 | 10KΩ | 1 | CPL |
| R23 | ERDS2TJ472 | 4.7KΩ | 1 | FAJ |
| R23 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R24 | ERDS2TJ103 | 10KΩ | 1 | CPL |
| R24 | ERDS2TJ472 | 4.7KΩ | 1 | FAJ |
| R24 | ERJ6GEYJ470V | 47Ω | 1 | MAIN |
| R25 | ERD2FCVG471 | 470Ω,1/4W,FUSE TYPE | 1 | ⚠ ASUB |
| R25 | ERDS2TJ103 | 10KΩ | 1 | CPL |
| R25 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R25 | ERDS2TJ103 | 10KΩ | 1 | FAJ |
| R26 | ERD2FCVG471 | 470Ω,1/4W,FUSE TYPE | 1 | ⚠ ASUB |
| R26 | ERDS2TJ103 | 10KΩ | 1 | FAJ |
| R26 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R26 | ERDS2TJ103 | 10KΩ | 1 | CPL |
| R27 | ERDS2TJ331 | 330Ω | 1 | FAJ |
| R27 | ERDS2TJ680 | 68Ω | 1 | CPL |
| R27 | ERJ6GEYJ473V | 47KΩ | 1 | MAIN |
| R28 | ERDS2TJ154 | 150KΩ | 1 | FAJ |
| R28 | ERDS2TJ680 | 68Ω | 1 | CPL |
| R28 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R29 | ERDS2TJ154 | 150KΩ | 1 | FAJ |
| R29 | ERDS2TJ680 | 68Ω | 1 | CPL |
| R29 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R30 | ERDS2TJ472 | 4.7KΩ | 1 | FAJ |
| R30 | ERDS2TJ680 | 68Ω | 1 | CPL |
| R30 | ERJ6GEYJ470V | 47Ω | 1 | MAIN |
| R31 | ERD2FCVG101 | 100Ω,1/4W,FUSE TYPE | 1 | ⚠ ASUB |
| R31 | ERDS2TJ472 | 4.7KΩ | 1 | FAJ |
| R31 | ERDS2TJ680 | 68Ω | 1 | CPL |
| R31 | ERJ6GEYJ470V | 47Ω | 1 | MAIN |
| R32 | ERD2FCVG101 | 100Ω,1/4W,FUSE TYPE | 1 | ⚠ ASUB |
| R32 | ERDS2TJ332 | 3.3KΩ | 1 | FAJ |
| R32 | ERDS2TJ680 | 68Ω | 1 | CPL |
| R32 | ERJ6GEYJ470V | 47Ω | 1 | MAIN |
| R33 | ERD2FCVG101 | 100Ω,1/4W,FUSE TYPE | 1 | ⚠ ASUB |
| R33 | ERDS2TJ332 | 3.3KΩ | 1 | FAJ |
| R33 | ERDS2TJ680 | 68Ω | 1 | CPL |

SX-KN6000

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R33 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R34 | ERDS2TJ104 | 100KΩ | 1 | FAJ |
| R34 | ERDS2TJ680 | 68Ω | 1 | CPL |
| R34 | ERJ6GEYJ222V | 2.2KΩ | 1 | MAIN |
| R35 | ERDS2TJ472 | 4.7KΩ | 1 | FAJ |
| R35 | ERDS2TJ680 | 68Ω | 1 | CPL |
| R35 | ERJ6GEYJ101V | 100Ω | 1 | MAIN |
| R36 | ERDS2TJ103 | 10KΩ | 1 | CPL |
| R36 | ERDS2TJ333 | 33KΩ | 1 | FAJ |
| R37 | ERDS2TJ104 | 100KΩ | 1 | CPL |
| R37 | ERDS2TJ333 | 33KΩ | 1 | FAJ |
| R37 | ERJ6GEY0R00V | 0Ω | 1 | MAIN |
| R38 | ERDS2TJ104 | 100KΩ | 1 | CPL |
| R38 | ERDS2TJ222 | 2.2KΩ | 1 | FAJ |
| R38 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R39 | ERDS2TJ104 | 100KΩ | 1 | CPL |
| R39 | ERDS2TJ222 | 2.2KΩ | 1 | FAJ |
| R39 | ERJ6GEYJ101V | 100Ω | 1 | MAIN |
| R40 | ERDS2TJ104 | 100KΩ | 1 | CPL |
| R40 | ERDS2TJ222 | 2.2KΩ | 1 | FAJ |
| R40 | ERJ6GEYJ471V | 470Ω | 1 | MAIN |
| R41 | ERDS2TJ104 | 100KΩ | 1 | CPL |
| R41 | ERDS2TJ472 | 4.7KΩ | 1 | FAJ |
| R42 | ERDS2TJ104 | 100KΩ | 1 | CPL |
| R42 | ERDS2TJ472 | 4.7KΩ | 1 | FAJ |
| R42 | ERJ6GEY0R00V | 0Ω | 1 | MAIN |
| R43 | ERDS2TJ104 | 100KΩ | 1 | CPL |
| R43 | ERDS2TJ222 | 2.2KΩ | 1 | FAJ |
| R44 | ERDS2TJ104 | 100KΩ | 1 | FAJ |
| R44 | ERJ6GEYJ330V | 33Ω | 1 | MAIN |
| R44 | ERDS2TJ104 | 100KΩ | 1 | CPL |
| R45 | ERDS2TJ152 | 1.5KΩ | 1 | FAJ |
| R45 | ERJ6GEYJ102V | 1KΩ | 1 | MAIN |
| R46 | ERDS2TJ563 | 56KΩ | 1 | FAJ |
| R46 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R47 | ERDS2TJ563 | 56KΩ | 1 | FAJ |
| R48,49 | ERDS2TJ222 | 2.2KΩ | 2 | FAJ |
| R50 | ERDS2TJ103 | 10KΩ | 1 | FAJ |
| R51,52 | ERDS2TJ682 | 6.8KΩ | 2 | FAJ |
| R53 | ERDS2TJ683 | 68KΩ | 1 | FAJ |
| R54,55 | ERDS2TJ333 | 33KΩ | 2 | FAJ |
| R56 | ERDS2TJ222 | 2.2KΩ | 1 | FAJ |
| R57 | ERDS2TJ683 | 68KΩ | 1 | FAJ |
| R58,59 | ERDS2TJ104 | 100KΩ | 2 | FAJ |
| R60,61 | ERDS2TJ222 | 2.2KΩ | 2 | FAJ |
| R62 | ERDS2TJ683 | 68KΩ | 1 | FAJ |
| R63 | ERDS2TJ682 | 6.8KΩ | 1 | FAJ |
| R64 | ERDS2TJ472 | 4.7KΩ | 1 | FAJ |
| R65,66 | ERDS2TJ104 | 100KΩ | 2 | FAJ |
| R67 | ERDS2TJ682 | 6.8KΩ | 1 | FAJ |
| R68 | ERDS2TJ472 | 4.7KΩ | 1 | FAJ |
| R69 | ERDS2TJ123 | 12KΩ | 1 | FAJ |
| R70 | ERDS2TJ103 | 10KΩ | 1 | CPC |
| R70 | ERDS2TJ123 | 12KΩ | 1 | FAJ |
| R71 | ERDS2TJ103 | 10KΩ | 1 | CPC |
| R71 | ERDS2TJ153 | 15KΩ | 1 | FAJ |
| R72,73 | ERDS2TJ473 | 47KΩ | 2 | CPC |
| R72-74 | ERDS2TJ473 | 47KΩ | 3 | FAJ |
| R75 | ERDS2TJ153 | 15KΩ | 1 | FAJ |
| R76,77 | ERDS2TJ154 | 150KΩ | 2 | FAJ |
| R78 | ERDS2TJ183 | 18KΩ | 1 | FAJ |
| R79 | ERDS2TJ682 | 6.8KΩ | 1 | FAJ |
| R80 | ERDS2TJ183 | 18KΩ | 1 | FAJ |
| R80 | ERDS2TJ333 | 33KΩ | 1 | CPR |
| R81 | ERDS2T0 | 0Ω | 1 | CPR |
| R81 | ERDS2TJ154 | 150KΩ | 1 | FAJ |
| R82 | ERDS2TJ101 | 100Ω | 1 | CPR |
| R82 | ERDS2TJ154 | 150KΩ | 1 | FAJ |
| R83 | ERDS2TJ101 | 100Ω | 1 | CPR |
| R83 | ERDS2TJ272 | 2.7KΩ | 1 | FAJ |
| R84 | ERDS2TJ103 | 10KΩ | 1 | CPR |
| R84 | ERDS2TJ332 | 3.3KΩ | 1 | FAJ |
| R85 | ERDS2TJ102 | 1KΩ | 1 | FAJ |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R85 | ERDS2TJ103 | 10KΩ | 1 | CPR |
| R86 | ERDS2TJ102 | 1KΩ | 1 | FAJ |
| R86,87 | ERDS2TJ103 | 10KΩ | 2 | CPR |
| R87 | ERDS2TJ272 | 2.7KΩ | 1 | FAJ |
| R88 | ERDS2TJ103 | 10KΩ | 1 | CPR |
| R88 | ERDS2TJ220 | 22Ω | 1 | FAJ |
| R89 | ERDS2TJ103 | 10KΩ | 1 | CPR |
| R89 | ERDS2TJ220 | 22Ω | 1 | FAJ |
| R90 | ERDS2TJ103 | 10KΩ | 1 | CPR |
| R90 | ERDS2TJ684 | 680KΩ | 1 | FAJ |
| R91 | ERDS2TJ103 | 10KΩ | 1 | CPR |
| R91 | ERDS2TJ684 | 680KΩ | 1 | FAJ |
| R92 | ERDS2TJ103 | 10KΩ | 1 | CPR |
| R92 | ERDS2TJ105 | 1MΩ | 1 | FAJ |
| R93 | ERDS2TJ103 | 10KΩ | 1 | CPR |
| R93 | ERDS2TJ105 | 1MΩ | 1 | FAJ |
| R94 | ERDS2TJ103 | 10KΩ | 1 | CPR |
| R94 | ERDS2TJ105 | 1MΩ | 1 | FAJ |
| R95 | ERDS2TJ103 | 10KΩ | 1 | CPR |
| R95 | ERDS2TJ222 | 2.2KΩ | 1 | FAJ |
| R96 | ERDS2TJ103 | 10KΩ | 1 | CPR |
| R96 | ERDS2TJ821 | 820Ω | 1 | FAJ |
| R97 | ERDS2TJ103 | 10KΩ | 1 | CPR |
| R97 | ERDS2TJ222 | 2.2KΩ | 1 | FAJ |
| R98 | ERDS2TJ103 | 10KΩ | 1 | CPR |
| R98 | ERDS2TJ222 | 2.2KΩ | 1 | FAJ |
| R99 | ERDS2TJ103 | 10KΩ | 1 | CPR |
| R99 | ERDS2TJ222 | 2.2KΩ | 1 | FAJ |
| R100 | ERDS2TJ104 | 100KΩ | 1 | FAJ |
| R100 | ERDS2TJ680 | 68Ω | 1 | CPR |
| R101 | ERDS2TJ104 | 100KΩ | 1 | FAJ |
| R101 | ERDS2TJ680 | 68Ω | 1 | CPR |
| R101 | ERJ6GEYJ101V | 0Ω | 1 | MAIN |
| R102 | ERDS2TJ104 | 100KΩ | 1 | FAJ |
| R102 | ERDS2TJ680 | 68Ω | 1 | CPR |
| R102 | ERJ6GEYJ102V | 1KΩ | 1 | MAIN |
| R103 | ERDS2TJ680 | 68Ω | 1 | CPR |
| R103 | ERDS2TJ821 | 820Ω | 1 | FAJ |
| R103 | ERJ6GEYJ101V | 100Ω | 1 | MAIN |
| R104 | ERDS2TJ222 | 2.2KΩ | 1 | FAJ |
| R104 | ERDS2TJ680 | 68Ω | 1 | CPR |
| R104 | ERJ6GEYJ470V | 47Ω | 1 | MAIN |
| R105 | ERDS2TJ105 | 1MΩ | 1 | FAJ |
| R105 | ERDS2TJ680 | 68Ω | 1 | CPR |
| R105 | ERJ6GEYJ470V | 47Ω | 1 | MAIN |
| R106 | ERDS2TJ105 | 1MΩ | 1 | FAJ |
| R106 | ERDS2TJ680 | 68Ω | 1 | CPR |
| R106 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R107 | ERDS2TJ680 | 68Ω | 1 | CPR |
| R107 | ERG1SJ680E | 68Ω,1W,FLAME-PROOF | 1 | ⚠ FAJ |
| R107 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R108 | ERDS2TJ680 | 68Ω | 1 | CPR |
| R108 | ERG1SJ680E | 68Ω,1W,FLAME-PROOF | 1 | ⚠FAJ |
| R108 | ERJ6GEYJ103V | 10KΩ | 1 | MAIN |
| R109 | ERDS2TJ105 | 1MΩ | 1 | FAJ |
| R109 | ERDS2TJ680 | 68Ω | 1 | CPR |
| R109 | ERJ6GEYJ470V | 47Ω | 1 | MAIN |
| R110 | ERDS2TJ105 | 1MΩ | 1 | FAJ |
| R110 | ERDS2TJ680 | 68Ω | 1 | CPR |
| R110 | ERJ6GEYJ101V | 100Ω | 1 | MAIN |
| R111 | ERDS2TJ332 | 3.3KΩ | 1 | FAJ |
| R111 | ERDS2TJ680 | 68Ω | 1 | CPR |
| R111 | ERJ6GEYJ105V | 1MΩ | 1 | MAIN |
| R112 | ERDS2TJ103 | 10KΩ | 1 | FAJ |
| R112 | ERJ6GEYJ103V | 10KΩ | 1 | MAIN |
| R113 | ERDS2TJ105 | 1MΩ | 1 | FAJ |
| R113 | ERJ6GEYJ682V | 6.8KΩ | 1 | MAIN |
| R114 | ERDS2TJ105 | 1MΩ | 1 | FAJ |
| R114 | ERJ6GEYJ103V | 10KΩ | 1 | MAIN |
| R115 | ERD2FCVG101 | 100Ω,1/4W,FUSE TYPE | 1 | ⚠ FAJ |
| R115 | ERJ6GEYJ101V | 100Ω | 1 | MAIN |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R116 | ERDS2TJ103 | 10KΩ | 1 | FAJ |
| R116 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R117 | ERDS2TJ103 | 10KΩ | 1 | FAJ |
| R117 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R118 | ERDS2TJ333 | 33KΩ | 1 | FAJ |
| R118 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R119 | ERDS2TJ473 | 47KΩ | 1 | FAJ |
| R119 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R120 | ERDS2TJ472 | 4.7KΩ | 1 | FAJ |
| R120 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R121 | ERDS2TJ223 | 22KΩ | 1 | FAJ |
| R121 | ERJ6GEYJ103V | 10KΩ | 1 | MAIN |
| R122 | ERF2EXKR10V | 0.1Ω,2W,FLAME-PROOF | 1 | ⚠ FAJ |
| R123 | ERDS2TJ332 | 3.3KΩ | 1 | FAJ |
| R124 | ERDS2TJ103 | 10KΩ | 1 | FAJ |
| R125 | ERDS2TJ472 | 4.7KΩ | 1 | FAJ |
| R125 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R126 | ERDS2TJ333 | 33KΩ | 1 | FAJ |
| R126 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R127 | ERDS2TJ103 | 10KΩ | 1 | FAJ |
| R127 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R128 | ERF2EXKR10V | 0.1Ω,2W,FLAME-PROOF | 1 | ⚠ FAJ |
| R128 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R129 | ERF2EXKR10V | 0.1Ω,2W,FLAME-PROOF | 1 | ⚠ FAJ |
| R129 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R130,31 | ERDS2TJ472 | 4.7KΩ | 2 | FAJ |
| R132,33 | ERDS2TJ223 | 22KΩ | 2 | FAJ |
| R133 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R134 | ERDS2TJ823 | 82KΩ | 1 | FAJ |
| R134 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R135 | ERDS2TJ472 | 4.7KΩ | 1 | FAJ |
| R135 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN,EN,XM,EZ,EK,EW,EF,EA |
| R135 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN,EP,EH,X,XL,XR,XS,XD |
| R135 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN,XT,XP,XW,XA |
| R136 | ERDS2TJ472 | 4.7KΩ | 1 | FAJ |
| R137 | ERDS2TJ823 | 82KΩ | 1 | FAJ |
| R138 | ERDS2TJ333 | 33KΩ | 1 | FAJ |
| R138 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN,M,XM |
| R139 | ERDS2TJ472 | 4.7KΩ | 1 | FAJ |
| R139 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R140,41 | ERJ6GEY0R00V | 0Ω | 2 | MAIN |
| R143 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R144 | ERDS2TJ102 | 1KΩ | 1 | FAJ |
| R144 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R145 | ERDS2TJ102 | 1KΩ | 1 | FAJ |
| R145 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R146 | ERDS2TJ102 | 1KΩ | 1 | FAJ |
| R146 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R147 | ERD2FCVG220 | 22Ω,1/4W,FUSE TYPE | 1 | ⚠ FAJ |
| R147 | ERJ6GEYJ103V | 10KΩ | 1 | MAIN |
| R148 | ERDS2TJ102 | 1KΩ | 1 | FAJ |
| R201,02 | ERJ6GEYJ470V | 47Ω | 2 | MAIN |
| R203 | ERDS2TJ102 | 1KΩ | 1 | JACK |
| R203 | ERJ6GEYJ105V | 1MΩ | 1 | MAIN |
| R204 | ERDS2TJ102 | 1KΩ | 1 | JACK |
| R204 | ERJ6GEYJ101V | 100Ω | 1 | MAIN |
| R205 | ERDS2TJ102 | 1KΩ | 1 | JACK |
| R205 | ERJ6GEYJ101V | 100Ω | 1 | MAIN |
| R206 | ERDS2TJ102 | 1KΩ | 1 | JACK |
| R206 | ERJ6GEYJ101V | 100Ω | 1 | MAIN |
| R207 | ERDS2TJ102 | 1KΩ | 1 | JACK |
| R207 | ERJ6GEYJ101V | 100Ω | 1 | MAIN |
| R208 | ERDS2TJ102 | 1KΩ | 1 | JACK |
| R208 | ERJ6GEYJ101V | 100Ω | 1 | MAIN |
| R209 | ERDS2TJ102 | 1KΩ | 1 | JACK |
| R209 | ERJ6GEYJ101V | 100Ω | 1 | MAIN |
| R210 | ERDS2TJ102 | 1KΩ | 1 | JACK |

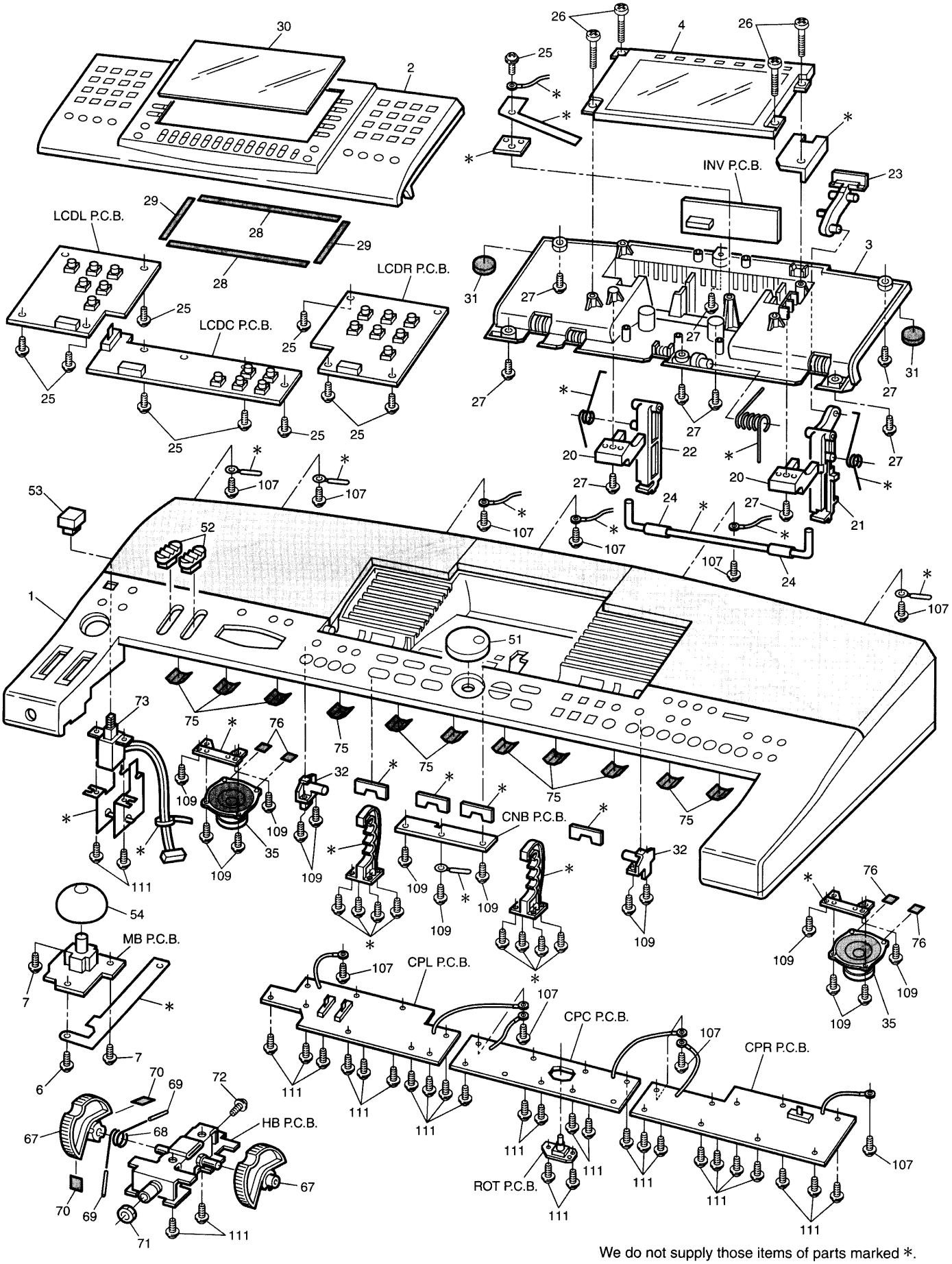
| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R210,11 | ERJ6GEYJ101V | 100Ω | 2 | MAIN |
| R301,02 | ERJ6GEYJ472V | 4.7KΩ | 2 | MAIN |
| R303 | ERJ6GEYJ105V | 1MΩ | 1 | MAIN |
| R304 | ERJ6GEYJ470V | 47Ω | 1 | MAIN |
| R305,06 | BK2125LL241 | COIL | 2 | MAIN |
| R307-16 | ERJ6GEYJ470V | 47Ω | 10 | MAIN |
| R317-22 | ERJ6GEYJ101V | 100Ω | 6 | MAIN |
| R323 | ERJ6GEYJ470V | 47Ω | 1 | MAIN |
| R324 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R325 | ERJ6GEYJ823V | 82KΩ | 1 | MAIN |
| R326 | QRSGBB471Q | THERMISTOR | 1 | MAIN |
| R327,28 | ERJ6GEYJ472V | 4.7KΩ | 2 | MAIN |
| R329 | ERJ6GEYJ154V | 150KΩ | 1 | MAIN |
| R330 | ERJ6GEYJ471V | 470Ω | 1 | MAIN |
| R331,32 | ERJ6GEYJ333V | 33KΩ | 2 | MAIN |
| R333-35 | ERJ6GEYJ471V | 470Ω | 3 | MAIN |
| R336 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R337,38 | ERJ6GEYJ151V | 150Ω | 2 | MAIN |
| R339 | ERG1SJ101E | 100Ω,1W,FLAME-PROOF | 1 | ⚠ MAIN |
| R340,41 | ERJ6GEYJ151V | 150Ω | 2 | MAIN |
| R342 | ERJ6GEYJ470V | 47Ω | 1 | MAIN |
| R343 | ERJ6GEYJ472V | 4.7KΩ | 1 | MAIN |
| R344 | ERJ6GEYJ823V | 82KΩ | 1 | MAIN |
| R345 | QRSGBB471Q | THERMISTOR | 1 | MAIN |
| R346 | ERJ6GEYJ154V | 150KΩ | 1 | MAIN |
| R347 | ERJ6GEYJ471V | 470Ω | 1 | MAIN |
| R348 | ERJ6GEYJ221V | 220Ω | 1 | MAIN |
| R349 | ERG1SJ102E | 1KΩ,1W,FLAME-PROOF | 1 | ⚠ MAIN |
| R350 | ERJ6GEYJ105V | 1MΩ | 1 | MAIN |
| R352 | ERJ6GEYJ471V | 470Ω | 1 | MAIN |
| R353,54 | ERJ6GEYJ472V | 4.7KΩ | 2 | MAIN |
| | | | | |
| S1 | SSRG100A | SW,VOLTAGE SELECTOR | 1 | ⚠ ACP,X,XS,XD,XT,XA |
| | | | | |
| SW1 | EVQ21507K | SW,TACT | 1 | LCDL |
| SW2-6 | EVQ21507K | SW,TACT | 5 | LCDL |
| SW7,8 | EVQ21507K | SW,TACT | 1 | CPL |
| SW9-14 | EVQ21507K | SW,TACT | 6 | LCDL |
| SW15,16 | EVQ21507K | SW,TACT | 2 | CPL |
| SW17-22 | EVQ21507K | SW,TACT | 6 | LCDL |
| SW23,24 | EVQ21507K | SW,TACT | 2 | CPL |
| SW25-31 | EVQ21507K | SW,TACT | 7 | LCDL |
| SW32-78 | EVQ21507K | SW,TACT | 47 | CPL |
| SW201 | QSSGT010AA | SW,SLIDE | 1 | JACK |
| SW201-25 | EVQ21507K | SW,TACT | 25 | LCDR |
| SW226-29 | EVQ21507K | SW,TACT | 4 | CPC |
| SW230-33 | EVQ21507K | SW,TACT | 4 | CPR |
| SW234-37 | EVQ21507K | SW,TACT | 4 | CPC |
| SW238-41 | EVQ21507K | SW,TACT | 4 | CPR |
| SW242-45 | EVQ21507K | SW,TACT | 4 | CPC |
| SW246-49 | EVQ21507K | SW,TACT | 4 | CPR |
| SW250-53 | EVQ21507K | SW,TACT | 4 | CPC |
| SW254-57 | EVQ21507K | SW,TACT | 4 | CPR |
| SW258-60 | EVQ21507K | SW,TACT | 3 | CPC |
| SW261-72 | EVQ21507K | SW,TACT | 12 | CPR |
| SW500 | QSRGT003AA | SW,ROTARY | 1 | ROT |
| | | | | |
| T1 | QTDG005A | TRANSFORMER | 1 | ⚠ INV |
| | | | | |
| VR1 | EVD07205B24G | VR,APC SEQUENCER VOLUME | 1 | CPL |
| VR1 | EVSG0E1B223A | VR,AFTER TOUCH SENSOR ADJ | 1 | MKB3 |
| VR1 | QRVG20N01B14 | VR,CONTRAST | 1 | LCDC |
| VR2 | QRVG22B01B54 | VR,MODULATION | 1 | MB |
| VR2 | QRVG30P02B53 | VR,MAIN VOLUME | 1 | CPL |
| VR3 | EVA07015B54G | VR,PITCH BEND | 1 | HB |
| VR4 | EVA07115B14G | VR,MODULATION | 1 | HB |
| VR10 | QRVG20N01B14 | VR,MIC VOLUME | 1 | CPR |
| | | | | |

SX-KN6000

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| W1 | QEXGSS05120A | CONNECTOR WITH WIRE(5P) | 1 | |
| W2 | QEXGSA04010A | CONNECTOR WITH WIRE(4P) | 2 | |
| W3 | QEUGM8W17DZ | FLAT CABLE(8P) | 1 | |
| W4 | QEXGVH03055B | CONNECTOR WITH WIRE(2P) | 1 | ⚠ |
| W5 | QEUGMHW38DZ | FLAT CABLE(17P) | 1 | |
| W6 | QEUGMFW27DZ | FLAT CABLE(15P) | 1 | |
| W7 | QEUGMHW16DZ | FLAT CABLE(17P) | 1 | |
| W8 | QEUGMKW25DZ | FLAT CABLE(19P) | 1 | |
| W9 | QEUGMHW26DZ | FLAT CABLE(17P) | 1 | |
| W10 | QEXGSS16040A | CONNECTOR WITH WIRE(16P) | 1 | |
| W12 | QEUGMKW08D | FLAT CABLE(19P) | 1 | |
| W13 | QEXGSA10080C | CONNECTOR WITH WIRE(10P) | 1 | |
| W14 | QEXGSA13075C | CONNECTOR WITH WIRE(13P) | 1 | |
| W15 | QEUGMZW15E | FLAT CABLE(33P) | 3 | |
| W16 | QEUGMMW09D | FLAT CABLE(21P) | 1 | |
| W17 | QEXGSS05010A | CONNECTOR WITH WIRE(5P) | 1 | |
| W18 | QEXGVH06090D | CONNECTOR WITH WIRE(6P) | 1 | |
| W19 | QEXGVH03055H | CONNECTOR WITH WIRE(3P) | 1 | |
| W20 | QEXGSS16050A | CONNECTOR WITH WIRE(16P) | 1 | |
| W21 | QEXGSS05055A | CONNECTOR WITH WIRE(5P) | 1 | |
| W22 | QEUGS8W07BZ | FLAT CABLE(8P) | 1 | |
| W23 | QJTG01007AA | FLAT CABLE(7P) | 1 | |
| W24 | QEUGS8W07BZ | FLAT CABLE(8P) | 1 | |
| W25 | QJTG01007AA | FLAT CABLE(7P) | 1 | |
| W26 | QEXGZA34060C | CONNECTOR WITH WIRE(15P) | 1 | |
| W27 | QEUGMLW15BZ | FLAT CABLE(20P) | 1 | |
| | | | | |
| X1 | EFOEC4004T3 | OSCILLATOR | 1 | CPL |
| X1 | QSXG1I3200A | OSCILLATOR | 1 | MAIN |
| X10 | EFOEC4004T3 | OSCILLATOR | 1 | CPR |
| X101 | QSXG2F2400A | OSCILLATOR | 1 | MAIN |
| X201 | QSXG1A1693A | OSCILLATOR | 1 | MAIN |
| X301 | QSXG1I3000A | OSCILLATOR | 1 | MAIN |
| | | | | |
| Z1 | EXBA10E472J | 4.7KΩ×4 | 1 | MAIN |
| Z1 | EXBV8V220J | 22Ω×4 | 1 | INV |
| Z2 | EXBV8V220J | 22Ω×4 | 1 | MAIN |
| Z2 | EXBV8V220J | 22Ω×4 | 1 | INV |
| Z3 | EXBV8V470J | 47Ω×4 | 1 | MAIN |
| Z3 | EXBV8V220J | 22Ω×4 | 1 | INV |
| Z4 | EXBV8V470J | 47Ω×4 | 1 | MAIN |
| Z5-Z9 | EXBA10E472J | 4.7KΩ×5 | 5 | MAIN |
| Z10 | EXBS8V101J | 100Ω×4 | 1 | MAIN |
| Z11 | EXBS8VR000 | 0Ω×4 | 1 | MAIN |
| Z13-16 | EXBA10E472J | 4.7KΩ×5 | 4 | MAIN |
| Z17-24 | EXBV8VR000V | 0Ω×4 | 8 | MAIN |
| Z101 | EXBS8V102J | 1KΩ×4 | 1 | MAIN |
| Z102-04 | EXBV8V470J | 47Ω×4 | 3 | MAIN |
| Z105 | EXBV8V103J | 10KΩ×4 | 1 | MAIN |
| Z106 | EXBV8V470J | 47Ω×4 | 1 | MAIN |
| Z107,08 | EXBS8V470J | 47Ω×4 | 2 | MAIN |
| Z109 | EXBV8V470J | 47Ω×4 | 1 | MAIN |
| Z110 | EXBS8V101J | 100Ω×4 | 1 | MAIN |
| Z111 | EXBV8V470J | 47Ω×4 | 1 | MAIN |
| Z112 | EXBS8V470J | 47Ω×4 | 1 | MAIN |
| Z113 | EXBV8V470J | 47Ω×4 | 1 | MAIN |
| Z114 | EXBS8V472J | 4.7KΩ×4 | 1 | MAIN |
| Z115 | EXBA10E472J | 4.7KΩ×5 | 1 | MAIN |
| Z116 | EXBS8V472J | 4.7KΩ×4 | 1 | MAIN |
| Z117 | EXBS8V103J | 10KΩ×4 | 1 | MAIN |
| Z201-03 | EXBV8V470J | 47Ω×4 | 3 | MAIN |
| Z204 | EXBA10E472J | 4.7KΩ×5 | 1 | MAIN |
| Z205,06 | EXBV8V472J | 4.7KΩ×4 | 2 | MAIN |

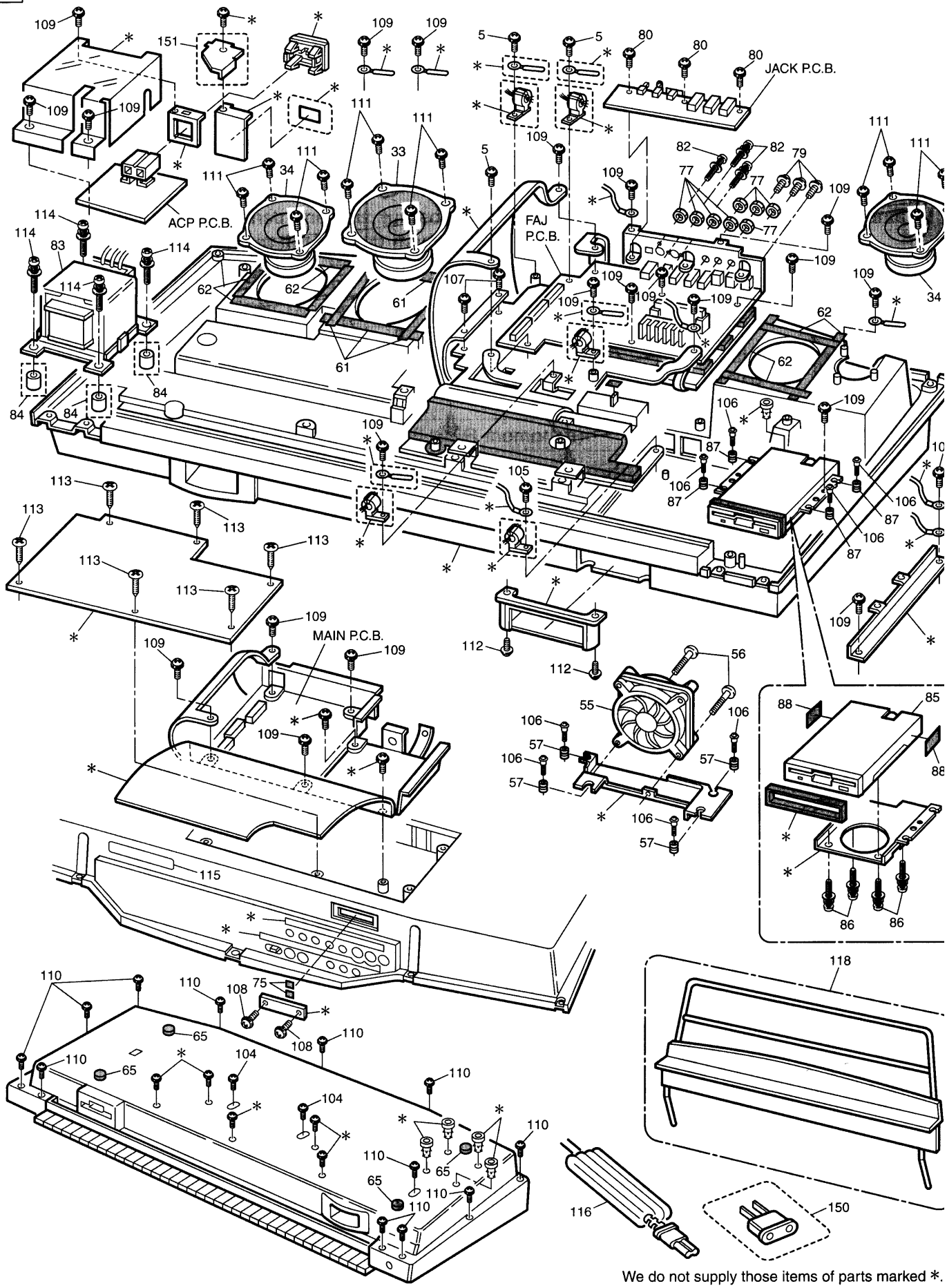
| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| Z212,13 | EXBV8V101J | 100Ω×4 | 2 | MAIN |
| Z214,15 | EXBV8V470J | 47Ω×4 | 2 | MAIN |
| Z216 | EXBV8V101J | 100Ω×4 | 1 | MAIN |
| Z217,18 | EXBV8V470J | 47Ω×4 | 2 | MAIN |
| Z219-30 | EXBV8V101J | 100Ω×4 | 12 | MAIN |
| Z301 | EXBS8V470J | 47KΩ×4 | 1 | MAIN |
| Z302,03 | EXBV8V470J | 47Ω×4 | 2 | MAIN |
| Z304-07 | BK32164M601T | COIL | 4 | MAIN |
| Z308 | EXBA10E472J | 4.7KΩ×5 | 1 | MAIN |
| Z309,10 | EXBS8V470J | 47Ω×4 | 2 | MAIN |
| Z311,12 | BK32164M601T | COIL | 2 | MAIN |
| Z313 | EXBA10E472J | 4.7KΩ×5 | 1 | MAIN |
| Z314,15 | EXBV8V101J | 100Ω×4 | 2 | MAIN |
| Z316 | EXBV8V470J | 47Ω×4 | 1 | MAIN |
| Z317 | EXBV8V220J | 22Ω×4 | 1 | MAIN |
| | | | | |
| ZC1 | ECJRVC1H101K | 100PF×4 | 1 | MAIN |
| ZC101-07 | ECJRVC1H470K | 47PF×4 | 7 | MAIN |
| ZC108-10 | ECJRVC1H101K | 100PF×4 | 3 | MAIN |
| ZC203 | ECJRVC1H470K | 47PF×4 | 1 | MAIN |

# 16 Cabinet Parts Location

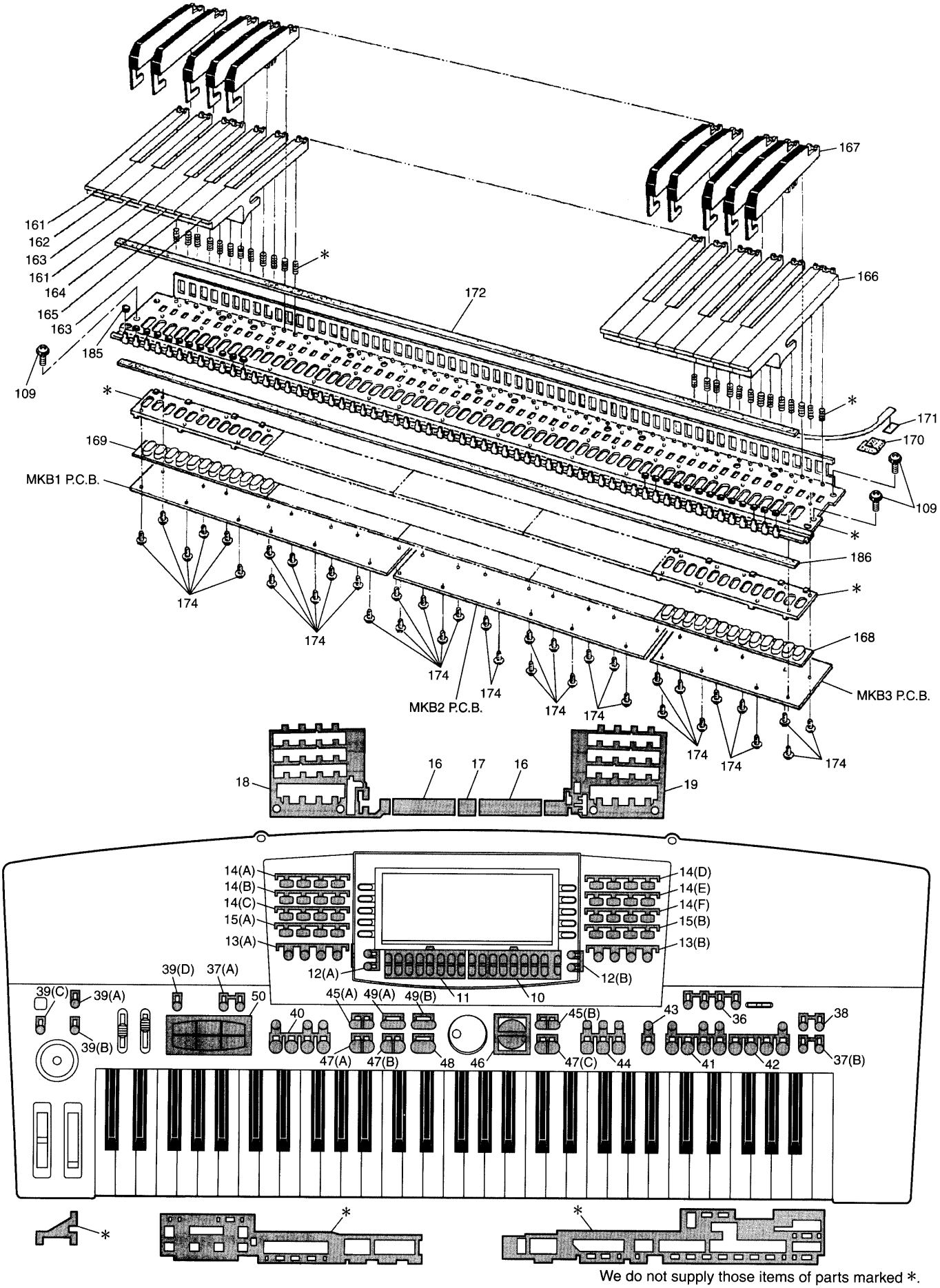



We do not supply those items of parts marked *.

SX-KN6000




We do not supply those items of parts marked *.

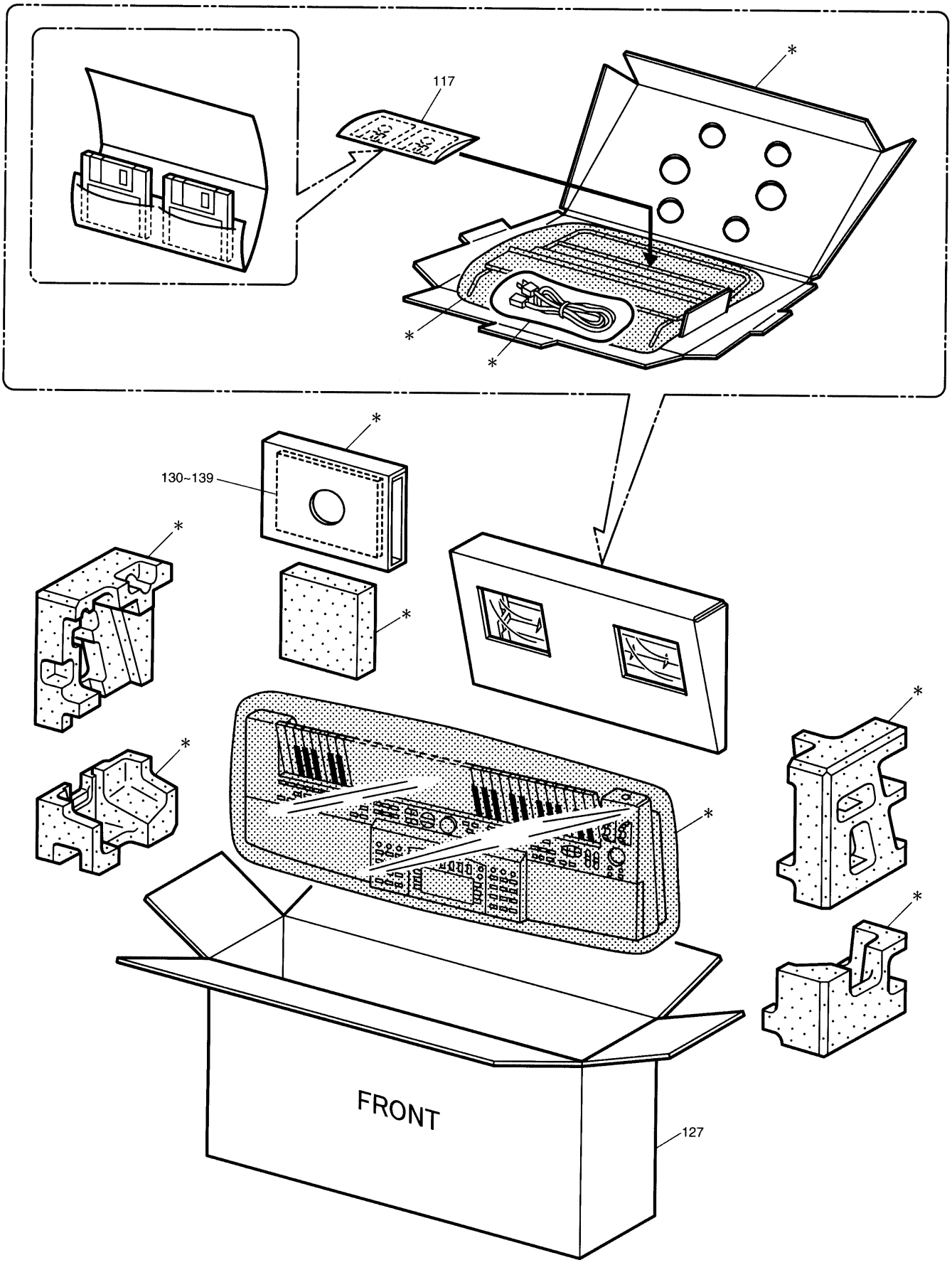



We do not supply those items of parts marked *.

SX-KN6000

| REF.NO. | DESCRIPTION |
|---|---|
| 10 | PAGE |
| 11 | MUTE |
| 12(A) | OTHER PARTS/TR,HELP |
| 12(B) | DISPLAY HOLD,EXIT |
| 13(A) | SOUND ARRANGER(SET,OFF/ON),AUTO PLAY CHORD(MODE,OFF/ON) |
| 13(B) | PART EFFECT(SUSTAIN,DIGITAL EFFECT,SOUND DSP,VARIATION) |
| 14(A) | RHYTHM GROUP(8&16 BEAT,POP,BALLAD,ROCK'N ROLL&BLUES) |
| 14(B) | RHYTHM GROUP(SOUL&FUNK,MODERN DANCE,U.S.TRAD,COUNTRY) |
| 14(C) | RHYTHM GROUP(BIG BAND&SWING,JAZZ COMBO,MARCH&WALTZ,BALLROOM&SHOW TIME) |
| 14(D) | SOUND GROUP(PIANO,GUITAR,STRINGS&VOCAL,BRASS) |
| 14(E) | SOUND GROUP(MALLET&ORCH PERC,WORLD,ORGAN&ACCORDION,SAX&WOODWIND) |
| 14(F) | SOUND GROUP(PAD,SYNTH,BASS,DRUM KITS) |
| 15(A) | RHYTHM GROUP(LATIN,WORLD,CUSTOM,MEMORY LOAD) |
| 15(B) | SOUND GROUP(DIGITAL DRAWBAR,ACCODION REGISTER,SOUND EXPLORER,MEMORY) |
| 36 | GLOBAL EFFECT(CHORUS,MULTI,REVERB,MIC) |
| 37(A) | PERFORMANCE PADS(BANK,STOP) |
| 37(B) | PROGRAM MENUS,DISK |
| 38 | SEQUENCER(PLAY,EASY REC) |
| 39(A) | DEMO |
| 39(B) | SOUND CONTROLLER(MODE) |
| 39(C) | SOUND CONTROLLER(RESET) |
| 39(D) | PERFORMANCE PADS(AUTO SETTING) |
| 40 | MUSIC STYLE ARRANGER,ONE TOUGH PLAY,SPLIT POINT,VARIATION&MSA(1,2,3,4) |
| 41 | SET,PANEL MEMORY(1,2,3,4,)NEXT BANK,BANK VIEW |
| 42 | PANEL MEMORY(5,6,7,8),CUSTOM PANEL |
| 43 | SOLO,TECHNI-CHORD |
| 44 | PART SELECT/CONDUCTOR(LEFT,RIGHT1,RIGHT2) |
| 45(A) | FADE IN/OUT |
| 45(B) | TRANSPOSE +,- |
| 46 | MUSIC STYLOST,FAVORITES |
| 47(A) | SEQUENCER CONT,RESET INTRO,FILL IN 1,2 |
| 47(B) | INTRO&ENDING 1,2 |
| 47(C) | R1/R2 OCTAVE |
| 48 | START/STOP,1,2,3,4 BEAT |
| 49(A) | TAP TEMPO |
| 49(B) | SYNCHRO&BREAK |
| 50 | PERFORMANCE PADS |
| 51 | TEMPO/PROGRAM |
| 52 | MAIN VOLUME,APS/SEQUENCER VOLUME |
| 53 | POWER ON/OFF |
| 54 | SOUND CONTROLLER |
| 67 | PITCH,MODULATION |

# 17 Packaging




We do not supply those items of parts marked *.



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