

MDCT-1000

SERVICE MANUAL

US Model

Ver 1.1 2001.07



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| | |
|------------------------------------|-----------|
| Model Name Using Similar Mechanism | MDCC-2000 |
| MD Mechanism Type | CCMD-2000 |
| Optical Pick-up Mechanism Type | KMS-250A |

SPECIFICATIONS

Laser diode properties

Material: GaAlAs
Wavelength: 780 nm
Emission duration: Continuous
Laser output: Less than 44.6 μ W
(This output is the value measured at a distance of about 200 mm from the lens surface on the optical pick-up block with 7 mm aperture.)

Revolutions

400 rpm to 1,800 rpm (CLV)

Error correction

Advanced Cross Interleave Reed Solomon Code (ACIRC)

Sampling frequency

44.1 kHz

Coding

ATRAC 3 (Adaptive TRansform Acoustic Coding 3)

Modulation system

EFM (Eight to Fourteen Modulation)

Number of channels

2 or 4 monaural channels

Frequency response

50-10,000 Hz

Speaker

Approx. 5.0 cm (2 inches) dia.

Power output

600 mW (at 10% distortion)

Output

EAR (minijack)
for 8-300 Ω earphones

Other connector

CONTROL UNIT connector

Power requirements

12 V DC
DC IN 12V jack accepts the supplied AC power adaptor for use on 120 V AC, 60 Hz

Dimensions

Approx. 320 x 280 x 118 mm (w/h/d)
(12 $\frac{3}{8}$ x 11 $\frac{1}{8}$ x 4 $\frac{3}{4}$ inches)
including projecting parts and controls

Mass

Approx. 3.7 kg (8 lb 3 oz)

Accessories supplied

AC power adaptor (1)
AC power cord (1)

Design and specifications are subject to change without notice.

MD CONFER-TRANSCRIBER

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2001G1600-1
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Sony Corporation
Personal Audio Company
Shinagawa Tec Service Manual Production Group

SONY®

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NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

Never look into the laser diode emission from right above when checking it for adjustment. It is feared that you will lose your sight.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK Δ OR DOTTED LINE WITH MARK Δ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Unleaded solder

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

**: LEAD FREE MARK**

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350°C.

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

- Strong viscosity

Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.

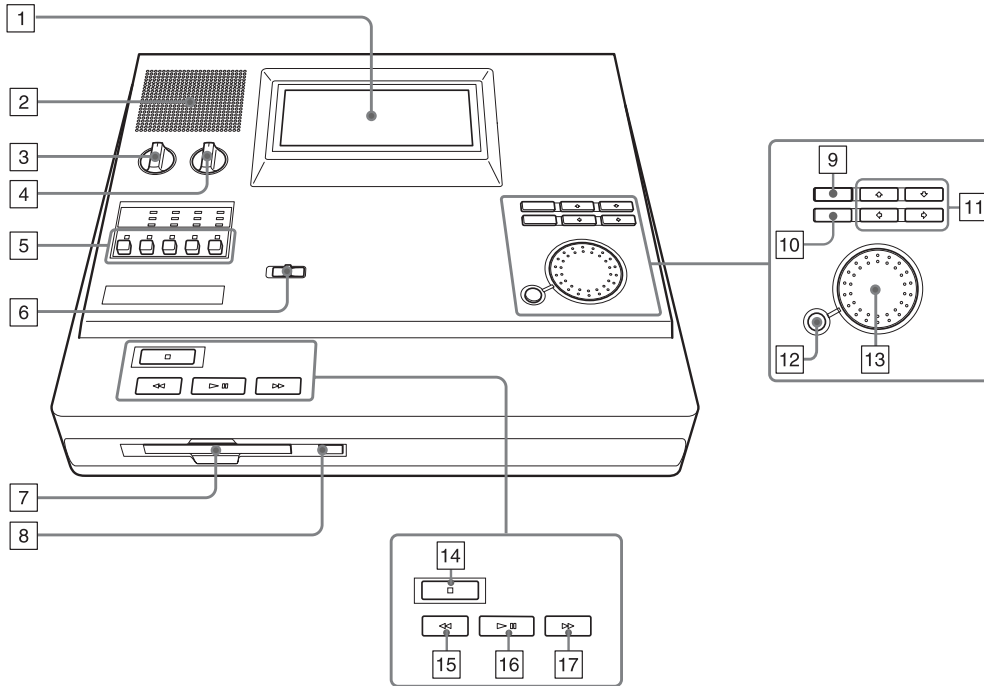
- Usable with ordinary solder

It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

This section is extracted from instruction manual.

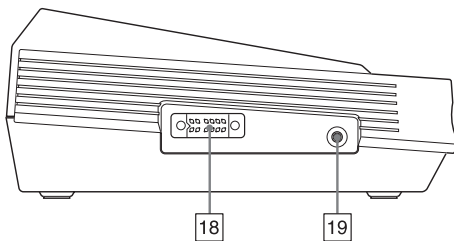
Location and Function of Controls

For details, refer to the pages indicated in ().



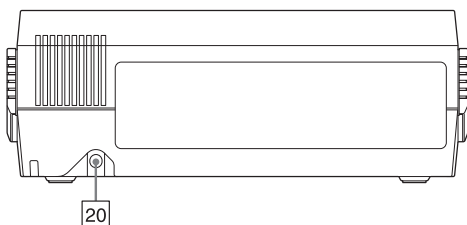
- | | |
|--|--|
| <ul style="list-style-type: none"> 1 LCD display 2 Built-in speaker 3 MONITOR VOL control 4 LCD CONTRAST control Adjusts the contrast of the display. 5 MONITOR select buttons (ALL/1/2/3/4) (8) 6 STANDBY switch 7 MD insertion slot 8 ▲ EJECT button | <ul style="list-style-type: none"> 9 FUNCTION button 10 DISP MODE button (10) 11 Arrow buttons 12 ENTER button 13 Jog dial 14 ■ STOP button 15 ◀◀ REW/BS button 16 ▶▶ PLAY/PAUSE button 17 ▶▶▶ FF/FS button |
|--|--|

Left side



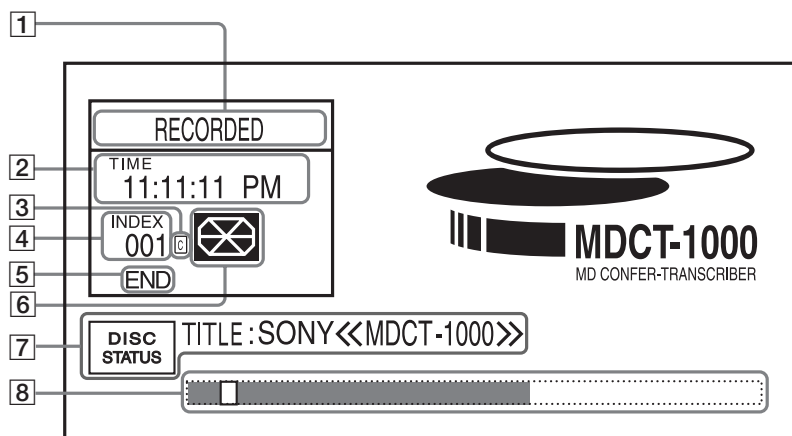
- 18 CONTROL UNIT connector (11)
- 19 EAR jack (8)


Rear



- 20 DC IN 12V jack (7)

Display Window (Information screen)

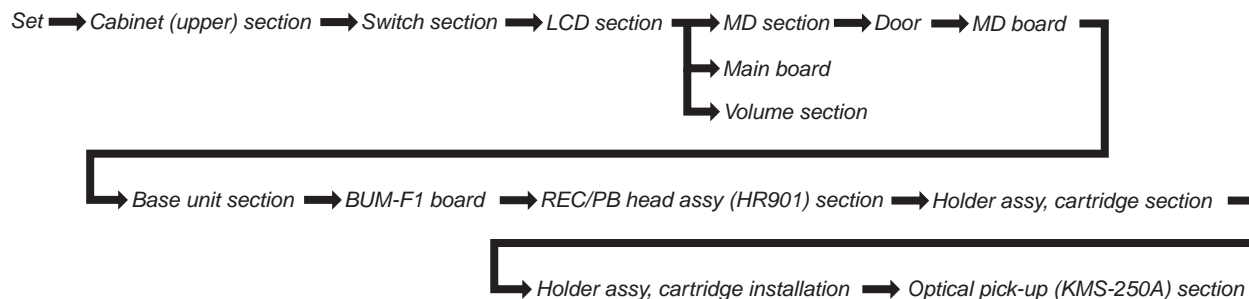


- | | |
|---|--|
| <p>1 Status display (17) Indicates the disc inserted in or the status of deck as follows: BLANK: a blank disc NO DISC: no disc PB ONLY: a commercially available recorded disc (for playback only) PROTECTED: a protected disc RECORDED: a recorded disc</p> <p>2 TIME display Indicates the recorded time at the current location for each index item.</p> <p>3  (copied) display Indicates that a disc digitally copied on MDCC-2000 is inserted.</p> | <p>4 INDEX counter Lights up when a disc is inserted. Blinks during an index search. (9)</p> <p>5 END display This shows the end of the disc.</p> <p>6 Disc status display Indicates the status of the disc with pictures.</p> <p>7 Message display Indicates various data by characters and various error messages. (17)</p> <p>8 Disc position display Indicates the current playback location on the disc by a white box. Already recorded parts are indicated in black. The further it is to the right, the closer the disc is to the end. Depending on the condition of the disc, the black part might not reach the far right even if the disc is full.</p> |
|---|--|

SECTION 2 DISASSEMBLY

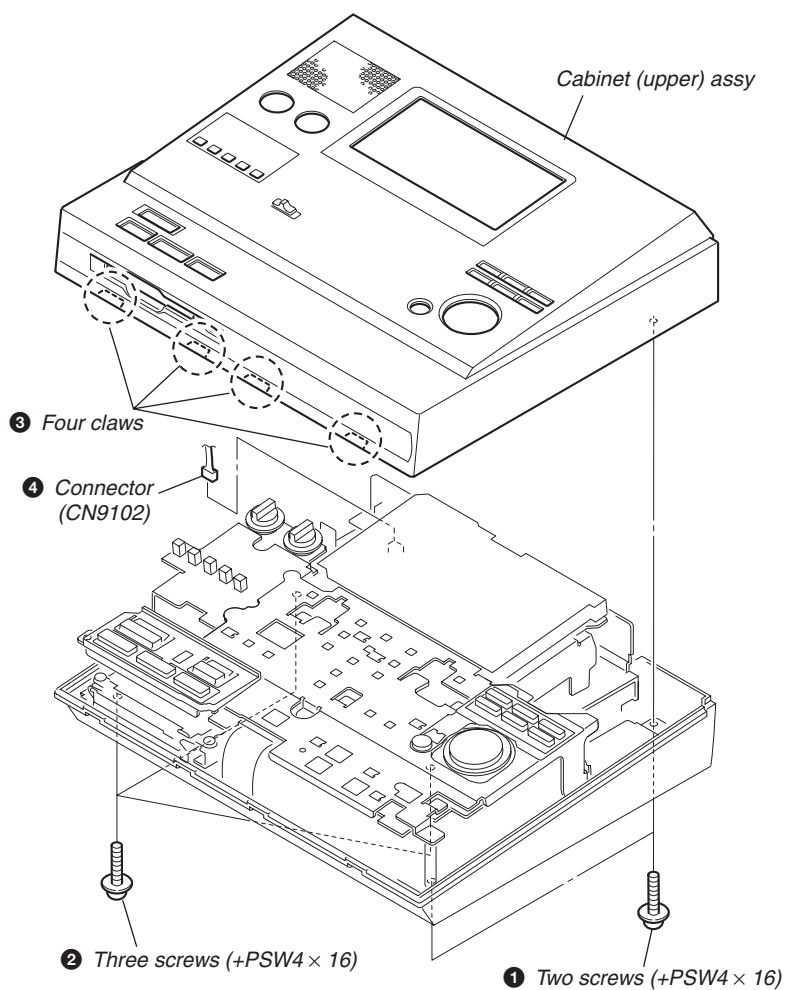
• The equipment can be removed using the following procedure.

• Disassemble the unit in the order as shown below.

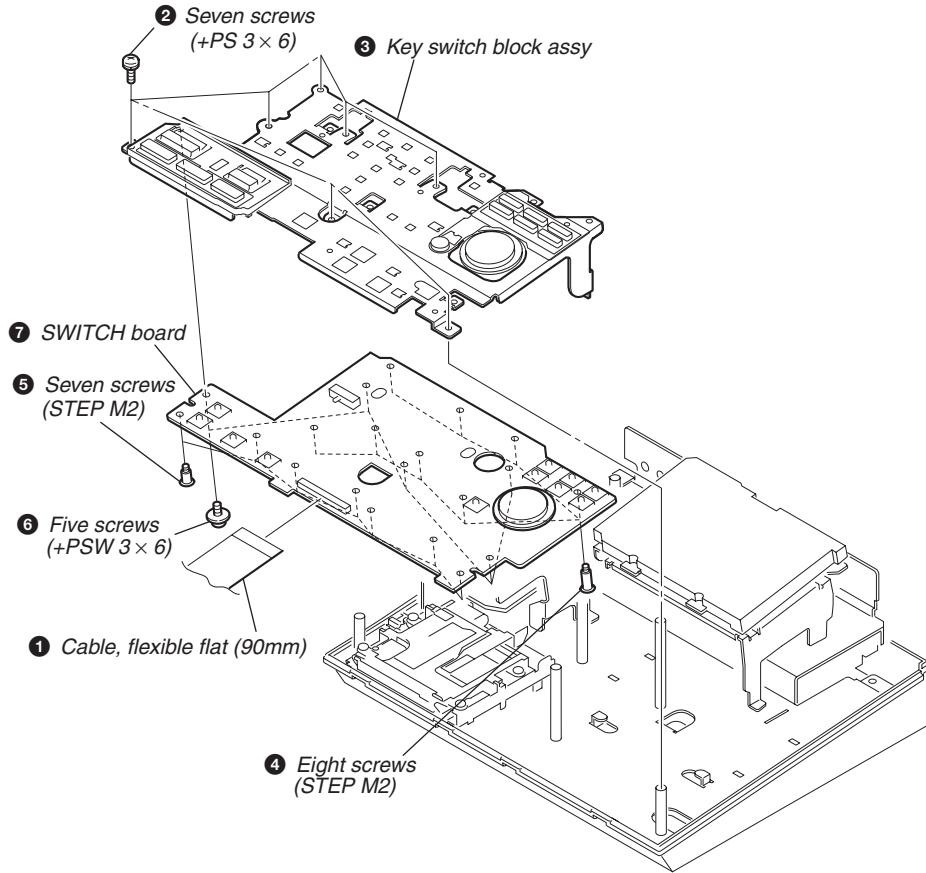


Note : Follow the disassembly procedure in the numerical order given.

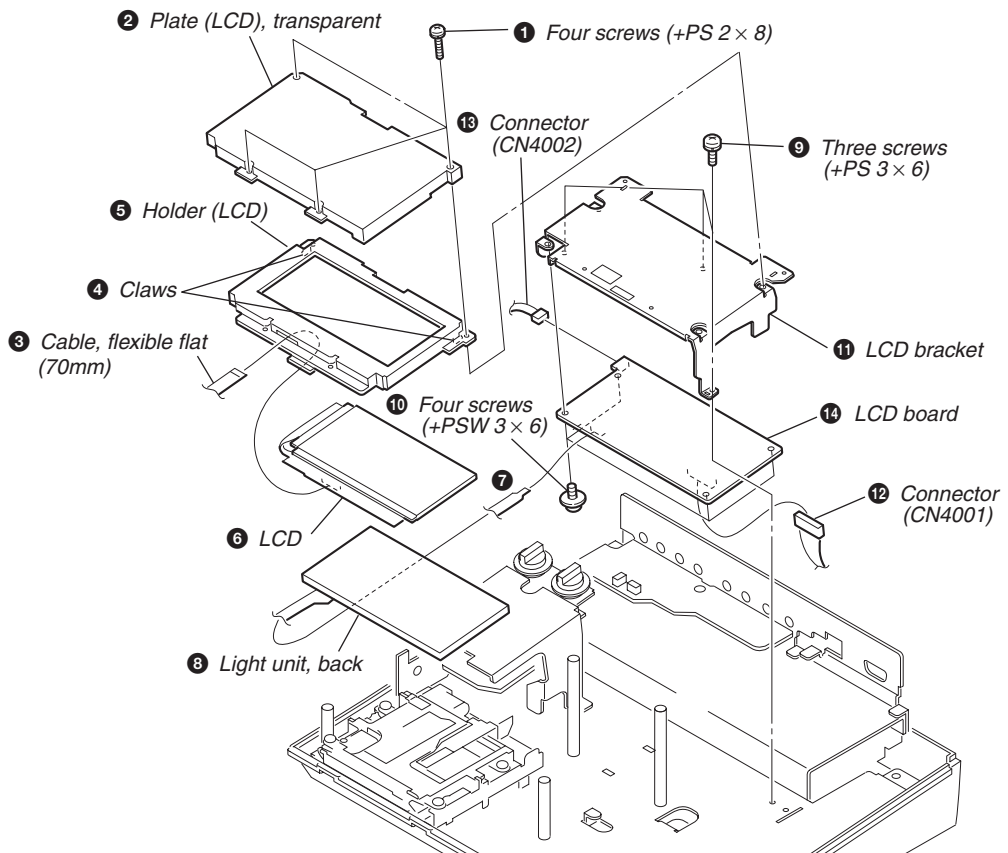
2-1. CABINET(UPPER) SECTION



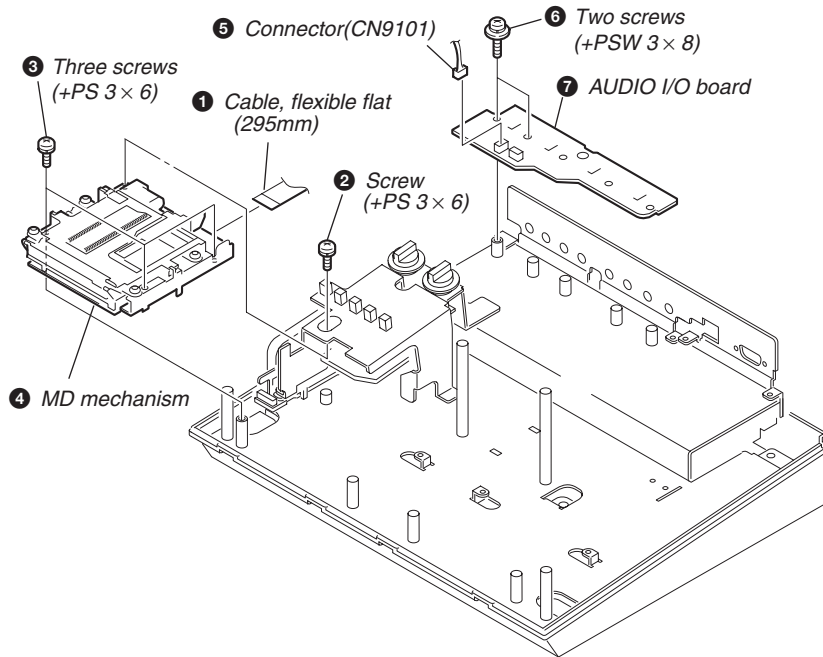
2-2. SWITCH SECTION



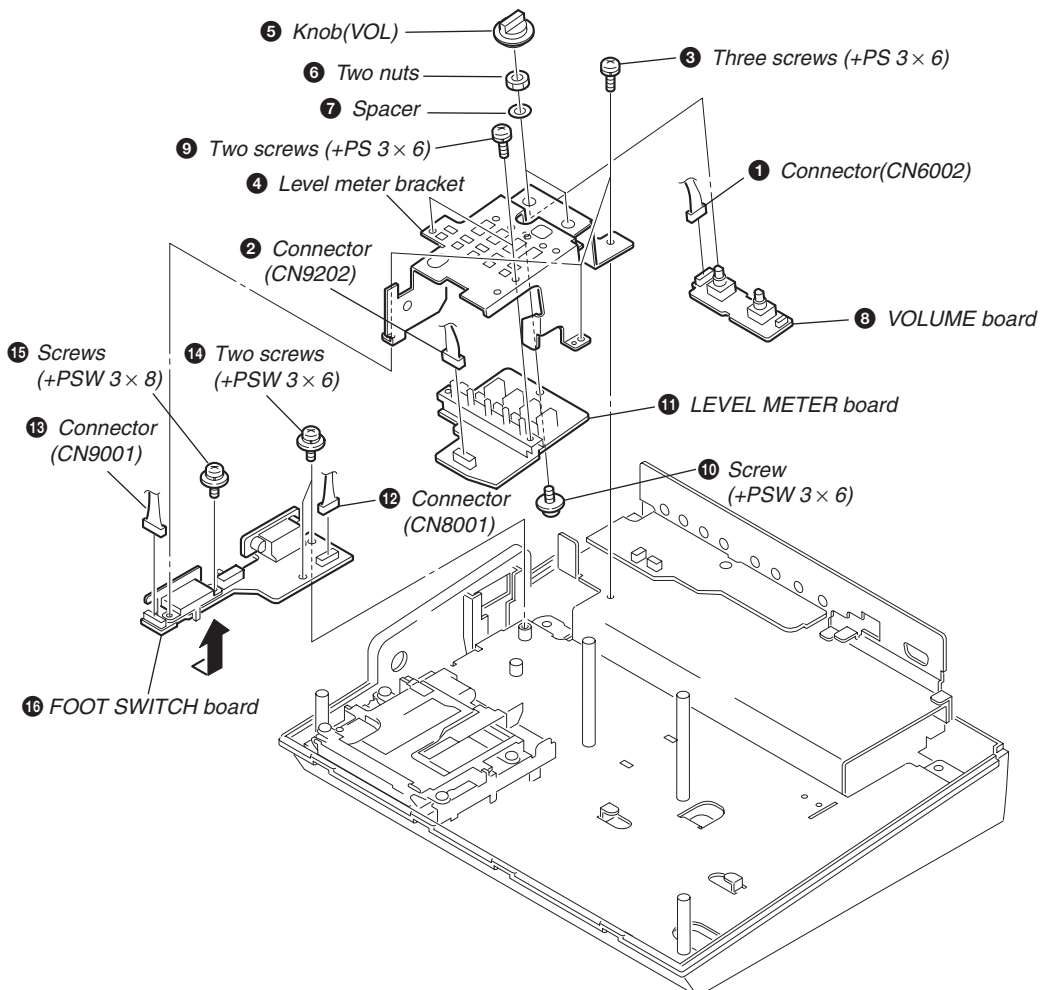
2-3. LCD SECTION



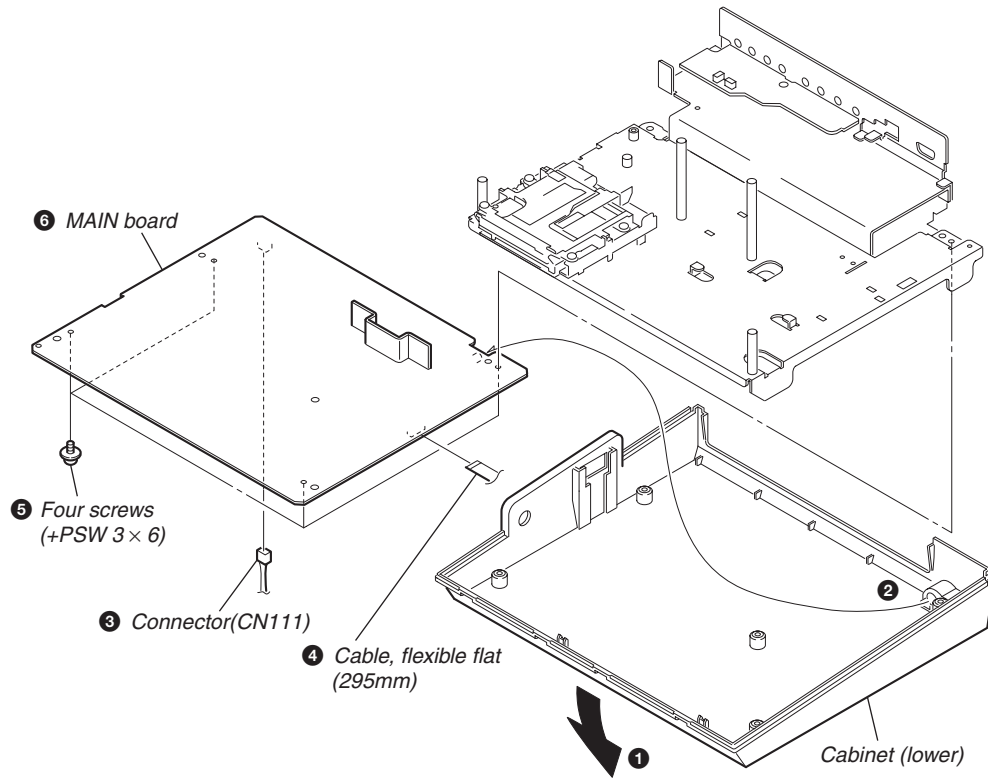
2-4. MD SECTION



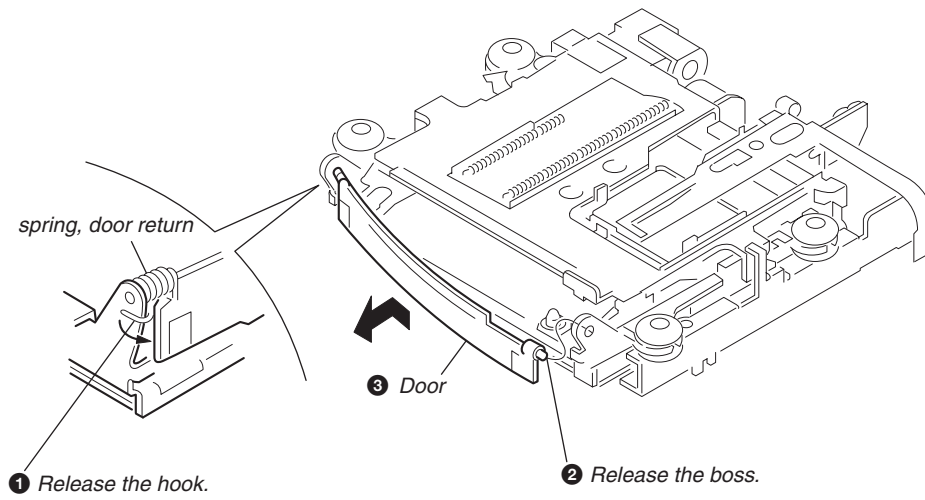
2-5. VOLUME SECTION



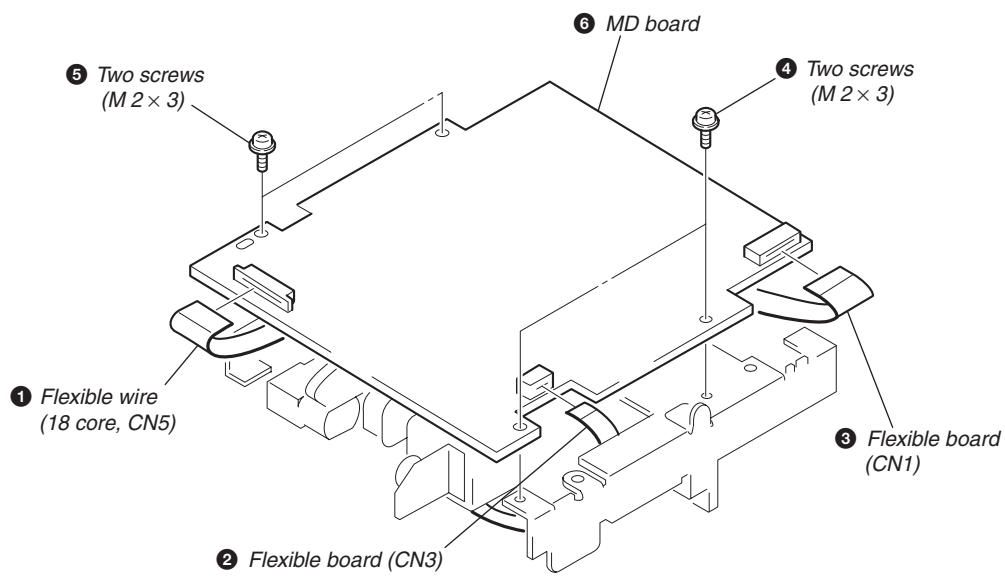
2-6. MAIN BOARD



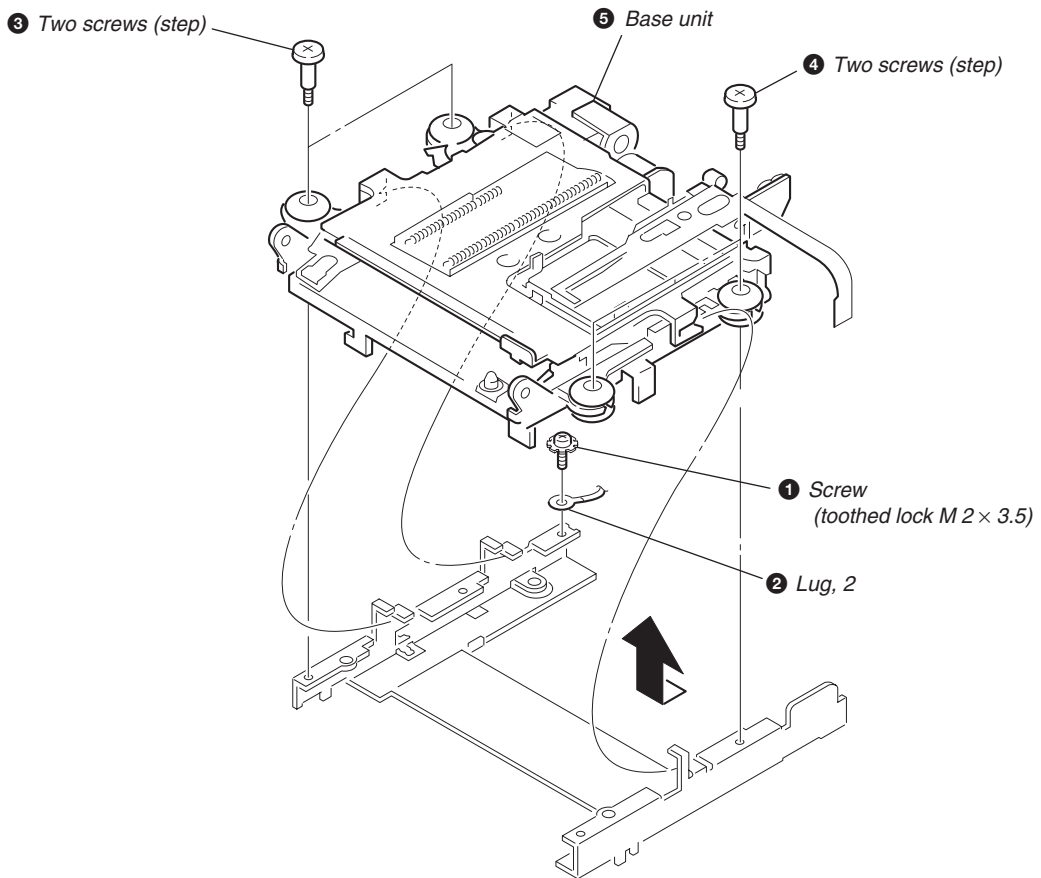
2-7. DOOR



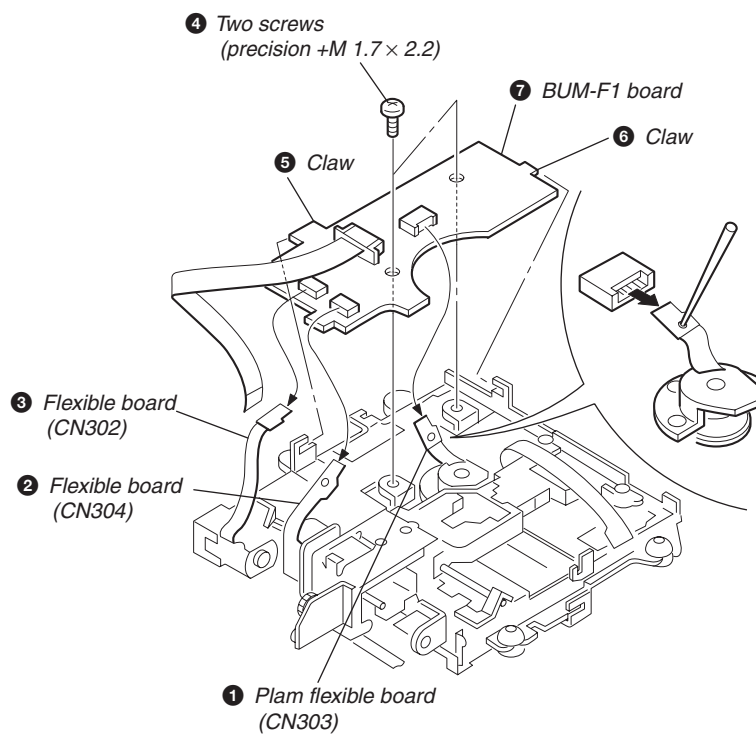
2-8. MD BOARD



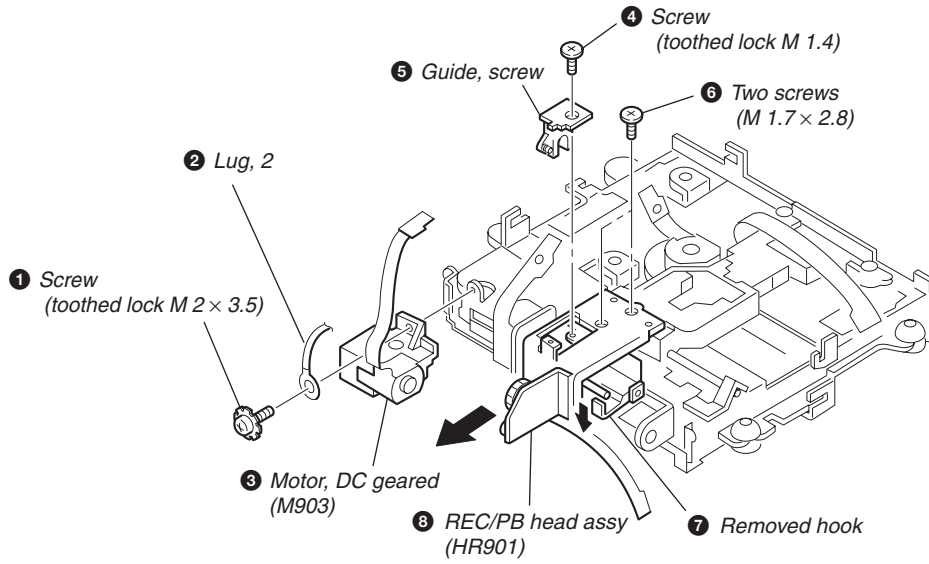
2-9. BASE UNIT SECTION



2-10. BUM-F1 BOARD

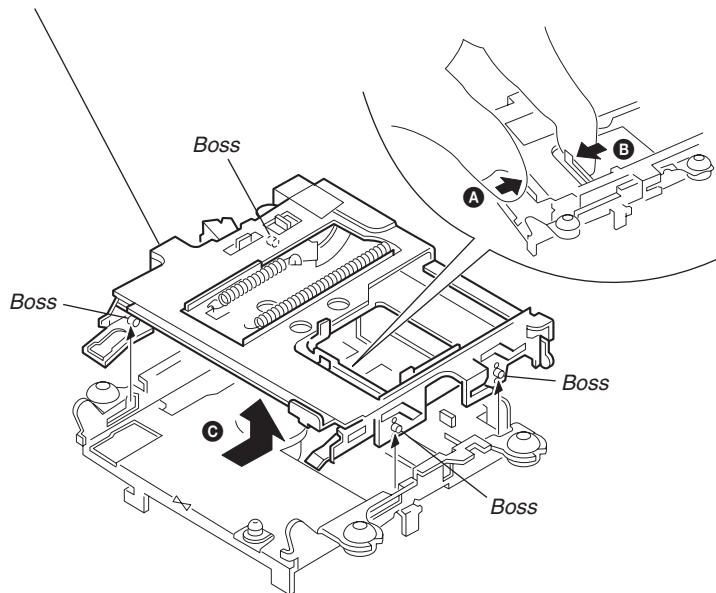


2-11. REC/PB HEAD ASSY (HR901) SECTION



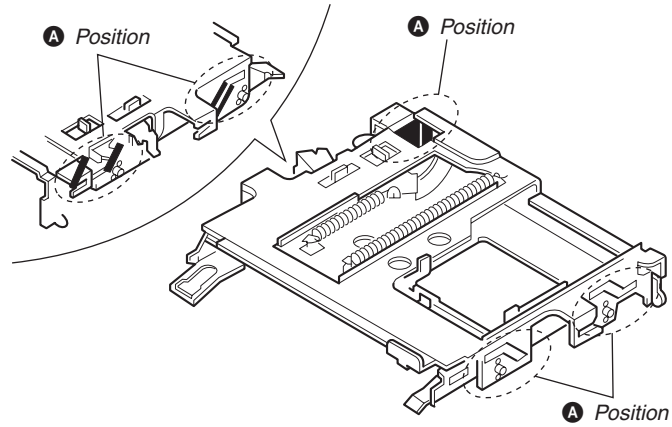
2-12. HOLDER ASSY, CARTRIDGE SECTION

- 1 Push it in the direction of the arrows **A** and **B** with fingers.
- 2 While releasing the four bosses, remove the cartridge holder assembly in the direction of the arrow **C**.

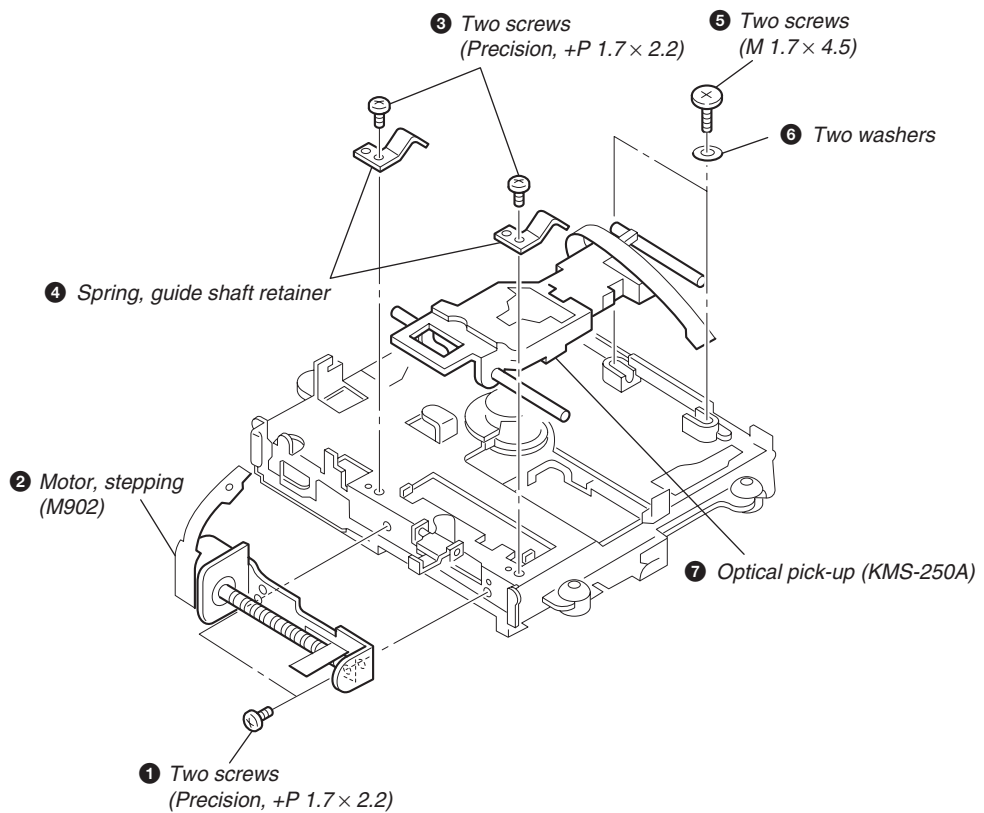


2-13. HOLDER ASSY, CARTRIDGE INSTALLATION

When installing the cartridge holder, coat the portion **A** shown in the illustration with grease (EM-30L).



2-14. OPTICAL PICK-UP (KMS-250A) SECTION



SECTION 3 TEST MODE

NOTE
This machine does not have either DECK B nor the recording function.

3-1. Description

3-1-1. How to Enter the Test Mode

Pressing the **ENTER** **ENTER** **ENTER** buttons.

3-1-2. How to Exit the Test Mode

While pressing the button, rotate the JOG dial and set "k_test_h" to "0".

3-1-3. How to Cancel the ENTER key

The numeric keys that have been input up to the moment can be canceled at the following so that the machine does not enter the test mode unless otherwise needed.

1. When the interval of pressing the previous numeric key and the next key exceeds one second or more.
2. When the deck select key is pressed.
3. When the k_mode changes.
4. When the selected deck has changed.
5. When the test mode is set.

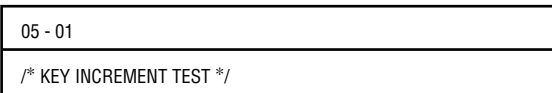
3-1-4. How to Select the Test Item

The test item can be selected by "k_test_h" and "k_test_l".

1. Displaying the selected item

The selected item is displayed on LCD as follows.

Value of "k_test_h" (Displayed in hexadecimal number)
Value of "k_test_l" (Displayed in hexadecimal number)



2. How to select the test item using the JOG dial

1. While pressing button, rotate the JOG dial. "k_test_h" changes.
When "k_test_h" changes, "k_test_l" is set to "0".
Select the desired test category using "k_test_h".
2. While pressing button, rotate the JOG dial. "k_test_l" changes.
Select the desired test item using "k_test_l".
3. Sets the selected test item either by pressing button after selecting "k_test_l" or by pressing the **ENTER** button.

3. How to select the test item with the use of the PC remote command

The desired test item can be selected by sending the remote command of rewriting "k_test_h" and "k_test_l" from the PC to the machine.

When the "k_test_h/l" change command is sent from a PC to the machine while the "k_test_h/l" change inhibit bit is being set, the machine returns NAK and the machine does not change "k_test_h/l".

3-1-5. Test Display

| | | |
|---------|---------------|-------------------------|
| 01 - 00 | | (Top menu) |
| <hr/> | | |
| 00 - 00 | EXIT | (Exit) |
| 01 - 00 | THIS MENU | (Top menu) |
| 02 - 00 | AUDIO | (Audio firmware test) |
| 03 - 00 | MECH | (Mechanism test) |
| 04 - 00 | DISPLAY | (Display system test) |
| 05 - 00 | KEY | (Key test) |
| 06 - 00 | COMMUNICATION | (Communication test) |
| 07 - 00 | AUDIO HW | (Audio hardware test) |
| 08 - 00 | DIGITAL HW | (Digital hardware test) |
| 09 - 00 | NVRAM | (NVRAM test) |

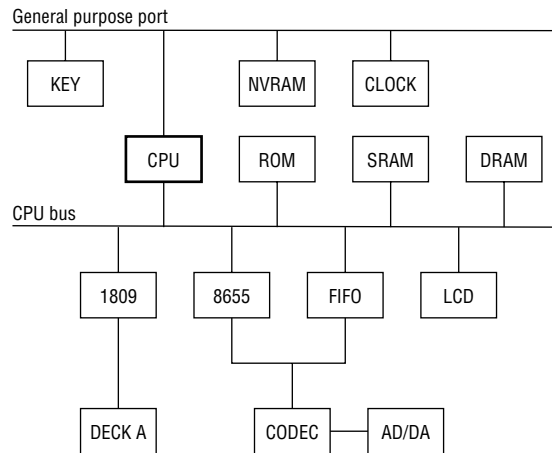
3-1-6. Communication with Mechanism Deck

Communication with the mechanism deck is performed using programs such as "Hyper terminal" or the like that have been started up on a PC.

Refer to 3-3-3. "Selecting the Terminal".

(Communication control with the log system or trace monitor is not possible.)

3-1-7. Circuit Block

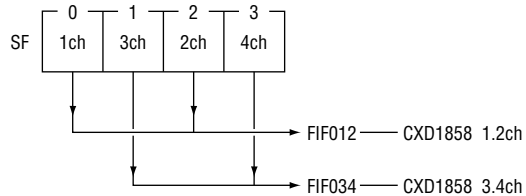


3-2. Audio Firmware Test: [AUDIO]

SF data storage method in the DRAM.

- Test program is stored as shown below.

(Operations start in the order starting from channel 1, channel 2, channel 3, and up to channel 4 under the ordinary operation conditions but the test mode starts from channel 1, channel 3, channel 2, and channel 4 in this order.)



LCD: Types, conditions and others of the test are displayed on the LCD during each test.

Channel selector and channel selector LED: Select the channel selector by manual operation.

Voice mirror: Change the input level by manual operation.

- Perform the following tests after the machine is set in the "STOP" mode.

| | |
|-------|-------------------------|
| 02-00 | /* AUDIO-F TEST MENU */ |
| <hr/> | |
| 02-00 | AUDIO-F MENU |

3-2-1. Audio Recording and Playback Test without Disc

- The audio signal (up to the full memory capacity of the DRAM at a maximum) is recorded in the ATRAC data recording area in the DRAM and is played back.
- Note: If the audio sources of channel 1 to channel 4 are all the same,
 - Playback is slower than normal if the 4 channels are recorded and 2 channels are played back.
(The pitch of the playback remains unchanged and the playback speed of it is half of normal.)
 - Playback is faster than normal if the 2 channels are recorded and 4 channels are played back.
(The pitch of the playback remains unchanged and the speed of it is double of normal.)

| | | | |
|-------|----------|----|------|
| 02-01 | 4ch-REC | on | DRAM |
| 02-02 | 4ch-PLAY | on | DRAM |
| 02-03 | 2ch-REC | on | DRAM |
| 02-04 | 2ch-PLAY | on | DRAM |
| 02-05 | reserve | | |
| 02-06 | reserve | | |

3-2-2. Microphone Sound Monitoring from Speaker during Stop

- Application: For testing “ripping” sound of speaker (Sweep sound is input from external source.)
- Application: For testing the voice mirror LED (sound is input from external source.)

| | | |
|-------|---------------|-------|
| 02-07 | REC_MONI, SP, | 1-4ch |
|-------|---------------|-------|

3-2-3. ROM Playback 1

- The pseudo ATRAC data on the EPROM is copied to the 1SG area on the DRAM and is played back repeatedly.
- Application: Level/Frequency response test

| | | | |
|-------|-----------|---------|---|
| 02-08 | 990Hz, | -0.2db, | 1-4ch (For playback of the reference level) |
| 02-09 | 43Hz, | -0.2db, | 1-4ch |
| 02-0A | 10KHz, | -0.2db, | 1-4ch |
| 02-0B | 990Hz, | -12db, | 1-4ch |
| 02-0C | Infinity, | 0, | 1-4ch (For S/N test) |

3-2-4. ROM Playback 2

- The pseudo ATRAC data on the EPROM is copied to the 1SG area on the DRAM and is played back repeatedly.
- Application: Separation/Frequency response test
- Other channels : No sound

| | | | |
|-------|--------|---------|-----|
| 02-0D | 990Hz, | -0.2db, | 1ch |
| 02-0E | 990Hz, | -0.2db, | 2ch |
| 02-0F | 990Hz, | -0.2db, | 3ch |
| 02-10 | 990Hz, | -0.2db, | 4ch |
| 02-11 | 43Hz, | -0.2db, | 1ch |
| 02-12 | 43Hz, | -0.2db, | 2ch |
| 02-13 | 43Hz, | -0.2db, | 3ch |
| 02-14 | 43Hz, | -0.2db, | 4ch |
| 02-15 | 10KHz, | -0.2db, | 1ch |
| 02-16 | 10Hz, | -0.2db, | 2ch |
| 02-17 | 10Hz, | -0.2db, | 3ch |
| 02-18 | 10Hz, | -0.2db, | 4ch |

3-2-5. Audio Muting Test

- ROM_PB (990Hz, -0.2dB, 1 to 4ch)

| | | | |
|-------|------------|----------|---|
| 02-19 | XMUTE=on, | MODE=00, | (During ROM_PB, circuit playback + mute) |
| 02-1A | XMUTE=on, | MODE=01, | (During ROM_PB, circuit recording + mute) |
| 02-1B | XMUTE=on, | MODE=10, | (During ROM_PB, circuit STOP + mute) |
| 02-1C | XMUTE=on, | MODE=11, | (During ROM_PB, circuit STANDBY + mute) |
| 02-1D | XMUTE=off, | MODE=00, | (During ROM_PB, circuit is in playback.) |
| 02-1E | XMUTE=off, | MODE=01, | (During ROM_PB, circuit is in record.) |
| 02-1F | XMUTE=off, | MODE=10, | (During ROM_PB, circuit is STOP.) |
| 02-20 | XMUTE=off, | MODE=11, | (During ROM_PB, circuit is STANDBY.) |

3-3. Mechanism Deck: [MECH]

03-00 /* MD TEST MENU */

| | |
|-------|-------------------------------|
| 01-0E |etc |
| 10-1F | DECK-A Only (Check & Setting) |
| 20-2F | DECK-B Only (Check & Setting) |
| 30-3F | DECK-A Only (Display Log) |
| 40-4F | DECK-B Only (Display Log) |
| 50-57 | Laser Check |

3-3-1. Displaying the Number of Times of Using the Lasers

The number of times of using the lasers of the deck-A and deck-B is displayed.

The number of times of using the lasers is stored in the NVRAM, and the number of times that the laser power has entered the MO write (number of clusters), is displayed.

03-01

| | |
|--------------------|---------|
| DECK-A Laser Cnt = | xxxxxxx |
| DECK-B Laser Cnt = | xxxxxxx |

3-3-2. Displaying Temperature of Mechanism

The temperatures of the mechanism of deck-A and deck-B are displayed.

The temperature of mechanism indicates the temperature inside the RF amplifier mounted on this machine. However, use this temperature as a reference value because it is not highly accurate.

03-02

| | |
|------------|------------------------------------|
| Thermo | |
| DECK-A | 35°C |
| [Result] = | [55] [0B] [58] [62] [07] [09] [09] |
| DECK-B | 31°C |
| [Result] = | [55] [0B] [58] [5F] [06] [06] [06] |

3rd byte of the above [Result] data string : Initial value of the temperature sensor at 25°C

4th byte of the above [Result] data string : Present temperature sensor value

3-3-3. Selecting the Terminal

Select the PC terminals (RS-232C) on the rear of this machine. Either one of the two patterns “Other” and “Mech”, can be selected.

Other : For checking contents, etc of the system memory

Mech : For checking status of the mechanism operation

03-0A

Terminal Mode = Mech

The PC should use the terminal software (such as Hyper-Terminal or Tera-Term).

Sets the communication as follows.

- Baud rate : 9600 bps
- Data length : 8 bits
- Parity : None
- Stop bit : 1
- Flow control : None

3-3-4. Dump List

Displays the Dump-List of the specified address.
Sets the address value (Addr) and number (Num) of display bytes by rotating the JOG dial and pressing **[ENTER]** button.

```
03-0D
-----
      Addr = 00000000      Num = 00
```

3-3-5. Deleting (Deck-A/Deck-B)

Performs deletion of the disc data.

```
03-14 (DECK-A)
-----
03-24 (DECK-B)
-----
```

3-3-6. OA (Inner track, Middle track and Outer track) (Deck-A/Deck-B)

Performs the OA (overall) test against the inner track (UTOC area)/Middle track/Outermost track.
Performs "Write", "Read", and "Verify" for every 1 cluster as many as 10 clusters in each area.

```
03-15 (DECK-A)
-----
03-25 (DECK-B)
-----
```

Result display

When the OA test of each area has ended with success, the following message appears on the LCD.

Total OK

- After the above message appears with normal end, the disc is ejected automatically.

3-3-7. OA (Overall Test for Normal Recording) (Deck-A/Deck-B)

The OA test in the same operation as the normal recording is performed.
The process of "Write", "Read" and "Verify" is performed for every 1 cluster starting from the innermost track of the recording area to the outermost track. Then the "UTOC Write" is performed for every 10 clusters.

```
03-16 (DECK-A)
-----
03-26 (DECK-B)
-----
```

When the "Mech" position of the terminal is selected, the test status can be checked as follows.

Description of the contents displaying the test status

Example of display

\$\$ TEST-drv [CNT] (W/R/D/S) (TW/TR) (Result)

- drv : Drive No.
- CNT : Number of times of test
- W : Number of times of "Write" error
Number of times of the write failure for the single write command ("Seek" error is not included.)
- R : Number of times of "Read" error
Number of times of the read failure for the single read command ("Seek" error is not included.)
- D : Number of times of alternation
Number of times of giving-up to write into the specified cluster
- S : Number of times of "Seek" error
Number of times that "Seek" error has occurred
- TW : Number of times of TOC "Write" error
Number of times of the TOC write failure for the single TOC "Write" command ("Seek" error is no included.)
- TR : Number of times of TOC "Read" error
Number of times of the TOC read failure for the single TOC "Read" command ("Seek" error is no included.)

Result : Test result up to present (1 : OK, 0 : NG)

Result display

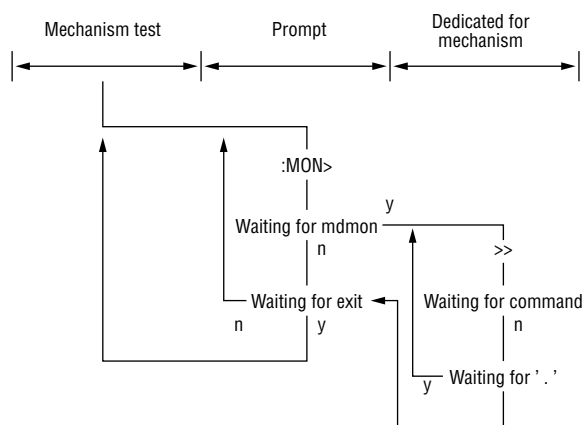
When the OA test has ended with success, the following message appears on the LCD.

Total OK

3-3-8. Checking Operations of Mechanism (Deck-A/Deck-B)

Operations of the mechanism are checked using the terminal.

```
03-17 (DECK-A)
-----
03-27 (DECK-B)
-----
```



Operation step

- Step 1 : Enters the test mode of the mechanism.
- Step 2 : Type in "mdmon" against "MON>" and set it.
- Step 3 : Press the **[ENTER]** button several times until the machine enters the test mode dedicated for mechanism.
- Step 4 : Performs the operation check in accordance with the display output.
- Step 5 : Type in "." to return to "Prompt".
- Step 6 : Type in "exit" to set the operation and exit the test mode of the mechanism.

3-3-9. Eject (Deck-A/Deck-B)

Ejects the disc.

03-18 (DECK-A)

03-28 (DECK-B)

3-3-10. Clearing the Number of Times of Using the Laser

(Deck-A/Deck-B)

The number of times of using the laser is stored, and is cleared as follows.

It is necessary to clear the number of times data of using the laser whenever the laser is replaced.

03-19 (DECK-A)

03-29 (DECK-B)

DECK-B Laser Count Clear

NV-RAM Save OK

3-3-11. OA (Overall Test for Random Recording)

(Deck-A/Deck-B)

The (OA) overall test is performed using the same operation as that of the normal recording.

The “write”, “read”, and “verify” are performed at every cluster at random within the recording area. The “UTOC write” is performed at every ten clusters.

The test ends after the specified time has passed.

When the “Mech” position of the terminal is selected, the test status can be checked as follows.

Description of the contents displaying the test status

Example of display

\$\$ TEST-drv [CNT] (W/R/D/S) (TW/TR) (Result)

drv : Drive No.

CNT : Number of times of test

W : Number of times of “Write” error
Number of times of the write failure for the single write command (“Seek” error is not included.)

R : Number of times of “Read” error
Number of times of the read failure for the single read command (“Seek” error is not included.)

D : Number of times of alternation
Number of times of giving-up to write into the specified cluster

S : Number of times of “Seek” error
Number of times that “Seek” error has occurred

TW : Number of times of TOC “Write” error
Number of times of the TOC write failure for the single TOC “Write” command (“Seek” error is not included.)

TR : Number of times of TOC “Read” error
Number of times of the TOC read failure for the single TOC “Read” command (“Seek” error is not included.)

Result : Test result up to present (1 : OK, 0 : NG)

Result display

When the OA test has ended with success, the following message appears on the LCD.

Total OK

3-3-12. Rescue (2-channel Mode) (Deck-A/Deck-B)

When the UTOC information shows error, the disc can be recovered as follows.

03-1E (DECK-A)

03-2E (DECK-B)

DECK-A Rescue 2Ch Mode

Disc-Input!!

Result display

Index structure : Only 1 index is used over the entire area of a disc.

Recording mode : 2-channel mode

Original : Original

Name information : Invalid

Time information : Invalid

3-3-13. Rescue (4-channel Mode) (Deck-A/Deck-B)

When the UTOC information shows error, the disc can be recovered as follows.

03-1F (DECK-A)

03-2F (DECK-B)

DECK-A Rescue 4Ch Mode

Disc-Input!!

Contents of recovery

Index structure : Only 1 index is used over the entire area of a disc.

Recording mode : 4-channel mode

Original : Original

Name information : Invalid

Time information : Invalid

3-3-14. Laser Power OFF (Deck-A/Deck-B)

Turns off the laser power.

03-50 (DECK-A)

Laser Power (DECK-A) = OFF

[Result] = [01] [1D] [00] [00] [00] [00] [00]

03-54 (DECK-B)

Laser Power (DECK-B) = OFF

[Result] = [01] [1D] [00] [00] [00] [00] [00]

3-3-15. Laser Power MO-WRITE (Deck-A/Deck-B)

Sets the laser power to the “MO-WRITE”.

03-51 (DECK-A)

Laser Power (DECK-A) = MO-WRITE

[Result] = [01] [1D] [00] [18] [00] [01] [00]

03-55 (DECK-B)

Laser Power (DECK-B) = MO-WRITE

[Result] = [01] [1D] [00] [18] [00] [01] [00]

3-3-16. Laser Power CD-READ (Deck-A/Deck-B)

Sets the laser power to the “CD-READ”.

03-52 (DECK-A)

Laser Power (DECK-A) = CD READ

[Result] = [01] [1D] [00] [08] [00] [02] [00]

03-56 (DECK-B)

Laser Power (DECK-B) = CD READ

[Result] = [01] [1D] [00] [08] [00] [02] [00]

3-3-17. Laser Power MO-READ (Deck-A/Deck-B) Sets the laser power to the "MO-READ".

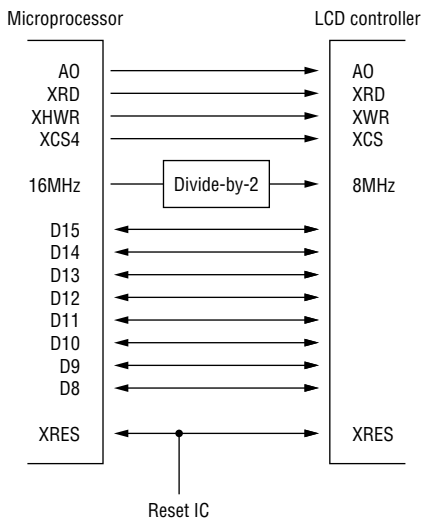
03-53 (DECK-A)
Laser Power (DECK-A) = MO READ
[Result] = [01] [1D] [00] [08] [00] [03] [00]

03-57 (DECK-B)
Laser Power (DECK-B) = MO READ
[Result] = [01] [1D] [00] [08] [00] [03] [00]

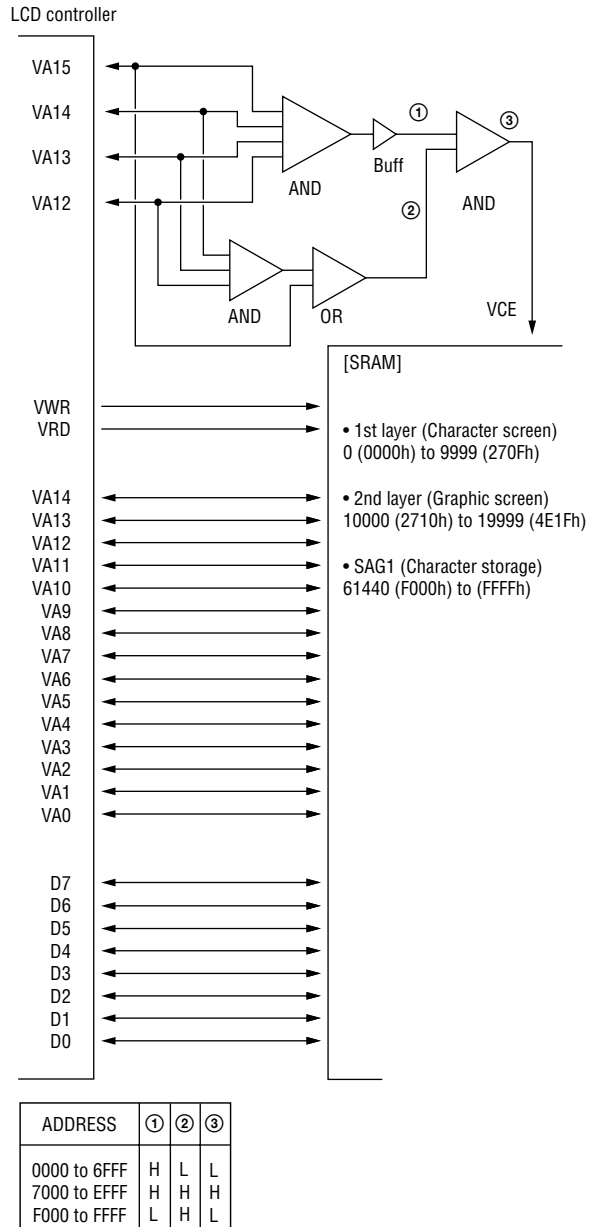
3-4. Display System Test: [DISPLAY]

04-00 /* DISPLAY TEST MENU */
04-01 [LCD_cntr] - [u_com] : connection check
[LCD_cntr] - [h_sram] : connection check
[LCD_cntr] - [LCD] : connection check
04-02 LCD DOT all set
04-03 LCD DOT all clear
04-04 character check on h_sram (SAG1) [1]
04-05 character check on h_sram (SAG1) [2]
04-06 [u_com - [LCD_cntr] : test signal
04-07 transmission of character data
04-08... content of global_area_address

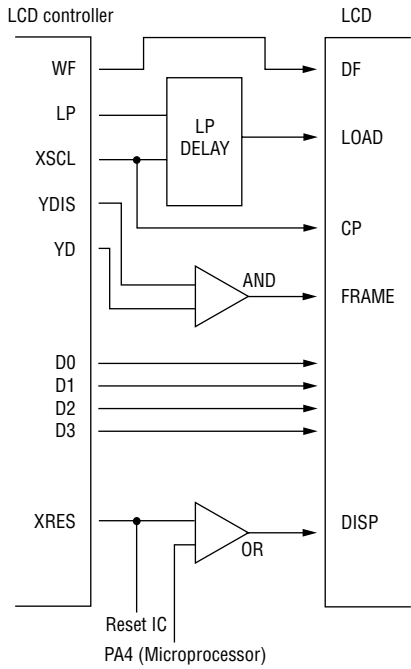
• Connecting the Microprocessor with LCD Controller



• Connecting the LCD Controller with SRAM



• Connecting the LCD Controller with LCD



3-4-1. Connection Check between Microprocessor and LCD Controller, and between LCD Controller and SRAM

- Check the checksum of the font and the graphic data that are transferred to SAG1 (F000h to FFFFh) of the SRAM for display when releasing the STANDBY mode.

[Calculation is under way.]
04-01
_____ (data read from LCD cntr) = ????????

- When [OK] appears:
Connection between the microprocessor and LCD controller and the connection between LCD controller and SRAM are correct.

04-01
_____ (data read from LCD cntr) = xxxxxxxx

[OK]

- When [NG] appears:
 1. If the following *NG display is recognized, “XRD” is suspected.
 2. If the following *NG display is not recognized (upon confirmation through trace monitor), either one of the connections between microprocessor and LCD controller or the connection between LCD controller and SRAM or the connection between LCD controller and LCD is defective. (At this time, if the test signal is output from the microprocessor to LCD controller in step 04-06, whether the connection is OK or NG can be confirmed, and also which of the connections between LCD controller and SRAM or the connection between LCD controller and LCD is NG.)

04-01
_____ (data read from LCD cntr) = KKKKKKKK

[NG]

Maybe read pattern NG. or.
[LCD_cntr]-[u_com],[h_sram]: connect NG

3-4-2. LCD Dot Check (Lighting All Dots)

Lighting all dots of LCD (Graphic data: By 0xff transfer)

04-02

3-4-3. Checking the LCD Dot (Turning off all dots)

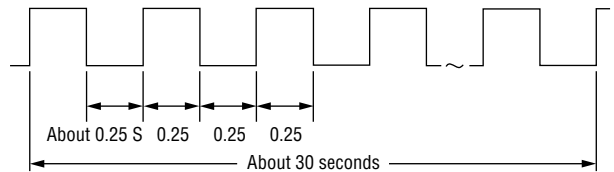
All dots of LCD are turned off. (Graphic data : By 0x00 transfer)

04-03

3-4-4. Test Signal Output from Microprocessor to LCD Controller
Test signal output is under preparation.

04-06
_____ NOW test signal loading...

Test signal is under preparation.
0xff and 0x00 are output repeatedly to the microprocessor ports D15 to D8 as follows.



The test signal output ends.

04-06
_____ finished test signal output

3-5. Key Test: [KEY]

05-00
_____ /* KEY TEST MANU */

05-01 KEY INCREMENT TEST
05-02 ANY KEY TEST
05-03 K_mode LOG

3-5-1. Key Test by Pressing Keys in Order

05-01
_____ /* KEY INCREMENT TEST */

Turn ON
⇒ DISPLAY(A)

When the specified “DISPLAY (A)” key is pressed correctly, the following messages appear.

05-10
_____ /* KEY INCREMENT TEST */

⇒ DISPLAY(A)

OK

Turn OFF

When releasing your finger from the key, the next key to be pressed is specified.

When an incorrect key that is different from the specified one is pressed, following messages appear.

05-10
 /* KEY INCREMENT TEST */

⇒ DISPLAY(A)

NG

Turn OFF

The test cannot be advanced unless the correct key is pressed.

The “Key Test by Pressing Keys in Order” is complete.

(Normally end)

When all of the key pressings are correct,
 “COMPLETE”

appears on the LCD screen and type in 05-42.

(Abnormally end)

When the incorrect key is pressed more than once,

“xxxxx

at FAULT”

appears on the LCD screen.

An incorrect key that was detected at first in the order of pressing keys,
 is displayed in “xxxxx”.

3-5-2. Key Test by Pressing Arbitrary Key

05-02
 /* KEY TEST */

PUSH KEY : OFF (FF/F5-FF)
 AD CODE : FF FF FF FF FF FF
 TRANSCRIBE : A POW : ON
 SEARCH MODE : INDEX JOG : 00

Displays the name of the pressed key.

Example : When the **STOP** button of the deck-A is pressed,

05-05
 PUSH KEY : STOP (A) (00/00-09)

appears.

The first 2-digit “00” of (00/00-09) indicate the value that the pressed key after it is converted by AD converter. The digits “00-09” indicate the range when the key is judged as “STOP (A)”.

AD CODE

Displays values when the key inputs are converted by AD converter, in the order starting from 0 up to 7 from the left of the LCD screen.

05-05

AD CODE : FF FF FF FF FF FF FF

↙ Group 0 ↘ Group 7
 ↘ ↙

Allocation of key groups and keys

| Application | Foot switch operation | |
|------------------|-----------------------|---------|
| Type | ANALOG | |
| Group | 0 | |
| Allocation of Kn | 0 | FS_PLAY |
| | 1 | FS_FS |
| | 2 | FS_BS |
| | 3 | |
| | 4 | |
| | 5 | |
| | 6 | |
| | 7 | |
| | 8 | |
| | 9 | |
| 10 | | |

| Application | Operation of the mechanism | Operation of the mechanism | Operation of the mechanism | Search | |
|------------------|----------------------------|----------------------------|----------------------------|----------|---|
| Type | ANALOG | ANALOG | ANALOG | ANALOG | |
| Group | 1 | 2 | 3 | 4 | |
| Allocation of Kn | 0 | STOP(A) | REC(A) | INDEX | 0 |
| | 1 | STOP(B) | REC(B) | EJECT(A) | 1 |
| | 2 | PLAY/PAUSE(A) | PLAY/PAUSE(B) | EJECT(B) | 2 |
| | 3 | REW/REV(A) | REW/REV(B) | | 3 |
| | 4 | FF/CUE(A) | FF/CUE(B) | DECK_A | 4 |
| | 5 | MARK(A) | MARK(B) | DECK_B | 5 |
| | 6 | MARK_OFF(A) | MARK_OFF(B) | SEARCH | 6 |
| | 7 | | | | 7 |
| | 8 | | | | 8 |
| | 9 | | | | 9 |
| 10 | | | | 10 | |

| Application | Function | Function | Function | Power supply, etc. | |
|------------------|----------|----------|--------------|--------------------|---|
| Type | ANALOG | ANALOG | ANALOG | DIGITAL | |
| Group | 5 | 6 | 7 | 8 | |
| Allocation of Kn | 0 | FUNCTION | ENTER | REC_PAUSE | Use is prohibited Use is prohibited A/B(FS) INDEX/TIME STANDBY/ON |
| | 1 | △ | DISP_MODE(A) | | |
| | 2 | ▽ | DISP_MODE(B) | | |
| | 3 | DEL | | | |
| | 4 | <(LEFT) | | | |
| | 5 | >(RIGHT) | | | |
| | 6 | | | | |
| | 7 | | | | |
| | 8 | | | | |
| | 9 | | | | |
| 10 | | | | | |

3-6. Communication Test: [COMMUNICATION]

- RS232-C connector
When the pin-2 and pin-3 of the RS232-C connectors are connected, two values are displayed in the 2-digit hexadecimal values respectively on the LCD screen, one is the send data and the other is data that have been received by the loop-back.

Display example

```
Tx DATA    57    ← Send data.
Rx DATA    57    ← Received data.
```

The value of the received data follows a little bit delayed after the send data.

The send data increments at every about 0.5 seconds.

- Modular jack
When pin-2 and pin-3 of the modular jack are connected to pin-3 of the RS232-C connector, the same test can be done.
- Communication packet
The status packet is used.
Packet size = 38 bytes

```
06-00
-----
/* PC_I/F LOOP BACK */
Tx DATA = xx
Rx DATA = xx
```

3-7. Audio Hardware Test: [AUDIO HW]

- The following test should be performed while the machine is set in the "STOP" mode.

```
07-00 /* AUDIO-H TEST MENU */
-----
07-00 AUDIO-H MENU
```

```
-----
07-01 RESERVE
```

3-7-1. Testing the Alarm Sound

```
07-02 XMUTE=on, MODE=00 (During alarm, circuit playback + mute)
07-03 XMUTE=on, MODE=01 (During alarm, circuit recording + mute)
07-04 XMUTE=on, MODE=10 (During alarm, circuit STOP + mute)
07-05 XMUTE=on, MODE=11 (During alarm, circuit STANDBY + mute)
07-06 XMUTE=off, MODE=00 (During alarm, circuit is in playback.)
07-07 XMUTE=off, MODE=01 (During alarm, circuit is in record.)
07-08 XMUTE=off, MODE=10 (During alarm, circuit is STOP)
07-09 XMUTE=off, MODE=11 (During alarm, circuit is STANDBY)
```

3-7-2. Testing LED

```
-----
07-0A LED=4ch, LED=on
07-0B LED=2ch, LED=off
```

3-7-3. Stopping FINT Information

```
-----
07-0C FINT INFORMATION
```

3-8. Digital Hardware System Test: [DIGITAL HW]

- Performs the menu display of the digital system test items.
- SRAM test
Write/read test of the SRAM area is performed at the startup when the main power is turned on.
0x5555, 0xAAAA and 0x0000 are used as the write data.
After completion of the writing the respective data, the data are read-out and are collated.
The test area is 0x200000 to 0x207FFF in the area 1.
When an error occurs during reading and collating, the REC LED on the deck-A will blink permanently.
(The REC LED on the deck-A is connected to the pin-11 (PC0) of the IC1077 HD64003TF16.)
- DRAM test
Write/read test of the DRAM area is performed at the startup when the main power is turned on.
0x5555, 0xAAAA and 0x0000 are used as the write data.
After completion of the writing the respective data, the data are read-out and are collated.
The test area is 0x600000 to 0x7FFFFFFF in the area 3. The test is performed at every 257 bytes.
When an error occurs during reading and collating, the REC LED on the deck-B will blink permanently.
(The REC LED on the deck-B is connected to the pin-12 (PC1) of the IC1077 HD64003TF16.)

3-8-1. The Menu Display

```
08-01
-----
/* DIGITAL HW TEST */

08-01 THIS MENU
08-02 ROM VERSION & DATE
08-03 ROM CHECK SUM
08-04 JOG INPUT
08-05 PULSE 10 mSEC
08-06 CXD-8655 WRITE/READ
08-07 CLOCK IC
08-08 CLOCK IC (power on)
08-09 LED ON/OFF
08-0A NMI
08-0B MODEL
08-0C LOCAL
```

3-8-2. ROM Version

Displays the release version of the programmed ROM.

```
08-02
-----
/* ROM VERSION & DATE */

ROM:  Ver No.0017      DATE:  2001.02.21

DECK A ROM :  V 2.33
DECK B ROM :  V 2.33
```

3-8-3. Check Sum of the ROM

Checksum of the programmed ROM is calculated.
The checksum area is 0x00000 to 0x07FFFF in the area 0.
Displays the address under calculation in hexadecimal number.

```
08-03
-----
/* ROM CHECK SUM */

CHECK SUM = xxxx
```

Displays the calculation result in the 2 bytes hexadecimal number.

The result indicates the value which is the same as checksum calculated by the ROM writer.

```
08-FF
-----
/* ROM CHECK SUM */

CHECK SUM = 9375
COMPLETED
```

3-8-4. Entry by JOG Operation

The input data of the JOG operation is sampled by 1 msec. cycle. When the input data agree twice continuously, the data are confirmed as the input data. The confirmed input data pass through the chattering processing. Then the resultant input data is displayed.

```
08-04
-----
/* JOG INPUT */

JOG-1 = 1
JOG-2 = 0 or 1
```

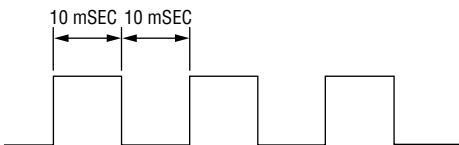
Displays the input status of the pin-2 of the CPU in the JOG-1. Displays the input status of the pin-3 of the CPU in the JOG-2. The JOG-1 is the input at pin-2 (PB0) connector of the IC1077 HD64003TF16. The JOG-2 is the input at pin-3 (PB1) connector of the IC1077 HD64003TF16.

3-8-5. PULSE Output

- Connection between the CXD-1809 and the CPU bus can be checked by this test.

```
08-05
-----
/* PULSE 10mSEC */
```

The pulse for confirming the clock oscillation of the micro-processor is output. This pulse is output to pin-73 (RA03) terminal TP1058 of the IC1033 CXD-1809. The pulse width is 10 msec and the tolerance is less than 1/100.



3-8-6. Write/Read Test of CXD-8655

After writing 0x55 in the "Interrupt Timing Register" of the CXD-8655 (IC1021), the value in the same register is read out and is checked whether the data is 0x55 or not.

```
08-06
-----
/* CXD- 8 6 5 5 WR/RD */

WRITE/READ COMPLETE.
```

If value is the same, "WRITE/READ COMPLETE" appears. If value differs, "WRITE/READ ERROR!" appears.

3-8-7. Watch IC Test I

Displays the inside data of the watch IC and performs the error correction of the oscillation clock.

```
08-07
-----
/* CLOCK DATA */

SECOND = 54    CORRECT  = 10
MINUTE = 37    CRTL_1   = 20
OCLOCK = 14    CTRL_2   = 00
WEEK   = 00
DAY    = 02    SET CORRECT (JOG & ENTER)
MONTH  = 91    32769.500 - 32769.599 (10)
YEAR   = 00
```

"MONTH = 91" means a status that the 100-yaer bit is on. It becomes November by masking MSB.

1. Contents of displays

| Items | Contents of display |
|--------|---|
| SECOND | Displays the value of the "second" count register in 2-digit BCD. |
| MINUTE | Displays the value of the "minute" count register in 2-digit BCD. |
| OCLOCK | Displays the value of the "hour" count register in 2-digit BCD using 24-hour display. |
| WEEK | Displays the value of the "week" count register in 2-digit hexadecimal number. No. 0 to No. 7 corresponds to Sunday through Saturday respectively. But, because this machine does not use the day of No. 7, the data is different from the actual day of the week. |
| DAY | Displays the value of the "date" count register in 2-digit hexadecimal number. |
| MONTH | Displays the value of the "month" count register in 2-digit hexadecimal number. The bit 7 is set to "1" when the "year" count register is capable up to 100 years. |
| YEAR | Displays the value of the "year" count register in 2-digit BCD. |

Displays the value of the "CORRECT" error correction register in 2-digit hexadecimal number.

| Bit name | Used for | Setup value |
|-----------|----------------------------------|---------------------------|
| 7 : WALE | Alarm control | 0 = Alarm is invalid |
| 6 : DALE | Alarm control | 0 = Alarm is invalid |
| 5 : 12 24 | 12-hours/24-hours clock | 1 = 24-hours clock |
| 4 : CLEN2 | 32 kHz output | 0 = Valid |
| 3 : TEST | IC test | 0 = Normal operation mode |
| 2 : CT2 | Selecting the periodic interrupt | 0 = OFF |
| 1 : CT1 | | 0 = OFF |
| 0 : CT0 | | 0 = OFF |

| | | |
|-------------|---|----------------------------------|
| CRTL_2 | Displays the value of the control register 2 in 2-digit hexadecimal number. | |
| Bit name | Used for | Setup value |
| 7 : VDSL | Power supply monitoring voltage | 0 = 2.1V |
| 6 : VDET | Result of power supply monitoring | 0 = More than monitoring voltage |
| 5 : SCRATCH | Scribble bit | |
| 4 : XSTP | Stops sending data | 0 = Normal send status |
| 3 : CLEN1 | 32 kHz output | 0 = Valid |
| 2 : CTFG | Fixed cycle interrupt output | 0 = OFF |
| 1 : WAFG | Alarm matches. | 0 = Does not match. |
| 0 : DAFG | Alarm matches. | 0 = Does not match. |

SET CORRECT Indicates the method to set the correction value.
 32768.500 to Indicates the clock oscillation frequency range.
 32768.599 () Indicates the correction value in parenthesis ().

2. Error Correction

Corrects an error of the clock oscillation frequency of the watch IC.

1. Pull up the clock output (TP1001) of the watch IC to the Vcc with a resistor (about 10 kΩ).
2. Measure the clock oscillation frequency.
The frequency counter which has the measurement accuracy of eight digits or more should be used.
3. Select the range of the oscillation frequency using the JOG dial.
4. Press the ENTER button.
When the writing data into the watch IC and the storing data into the NVRAM are complete, "COMPLETE" appears.
5. When the ENTER button pressed once and then the hand removed from the ENTER button, the value that are set in "CORRECT=" is reflected and stored.

(Note)

In order to return the machine to the customer with the status in which the clock error correction value is being saved, select "SHIPPING" in the test mode of the NVRAM and press the **ENTER** button, or alternately exit the test mode and enter the STANDBY mode.
 In the latter method, be careful that the stamp information, password, reverse time, etc are not initialized.
 (If the NVRAM is initialized or the pattern write test is performed, the clock error correction value that is saved in the NVRAM, will also be initialized.)

3-8-8. Watch IC Test II (When power is turned on)

The inside data of the watch IC before executing the backup battery run-out check is displayed at the moment of immediately after the power-on of the machine.

Accordingly, the data before resetting the watch IC at the event of backup battery run-out check, etc can be confirmed.

08-08
 /* CLOCK IC (Data just before power on) */

| | |
|-------------|---|
| SECOND = 54 | CORRECT = 10 |
| MINUTE = 37 | CRTL_1 = 20 |
| OCLOCK = 14 | CTRL_2 = 00 |
| WEEK = 00 | |
| DAY = 02 | [OSCILLATOR : OK (CONTINUED)] |
| MONTH = 91 | [SECOND-YEAR DATA : LEGAL] |
| YEAR = 00 | [BACKUP BATTERY : OK (MORE THAN 2.1V)] |

"MONTH = 91 becomes November by masking MSB in the status in which the 100-yaer bit is set to on.

1. Contents of displays

The contents are the same as those of Section 3-8-7. "Watch IC Test I" except for the following.

| Items | Contents of displays |
|---|--|
| [OSCILLATOR : OK (CONTINUED)] |] When the oscillation stop is not detected. |
| [OSCILLATOR : NG (STOPED)] |] When the oscillation stop is detected. |
| [SECOND-YEAR DATA : LEGAL] |] When the data of second, minute, hour, date, month, and year are of the possible values. |
| [SECOND-YEAR DATA : ILLEGAL] |] When the data of second, minute, hour, date, month, and year are of the impossible values. |
| [BACKUP BATTERY : OK (MORE THAN 2.1V)] |] When the backup battery is normal. |
| [BACKUP BATTERY : LESS THAN 2.1V] |] When the backup battery has run out. |

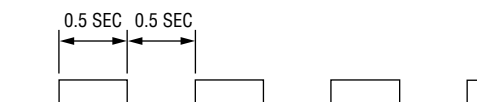
3-8-9. LED ON/OFF

The LEDs of the channel 3 and channel 4 of the monitor and those of LINE OUT, the deck-A and deck-B, and the REC button simultaneously blink.

08-09
 /* LED ON/OFF */

1. 3ch/4ch
2. DECK A/B
3. REC A/B

The period of blinking is 0.5 seconds for "on" and 0.5 seconds for "off".



3-8-10. NMI Test

When the NMI starts, "NMI ON" appears.

08-0A
/* NMI */

NMI ON

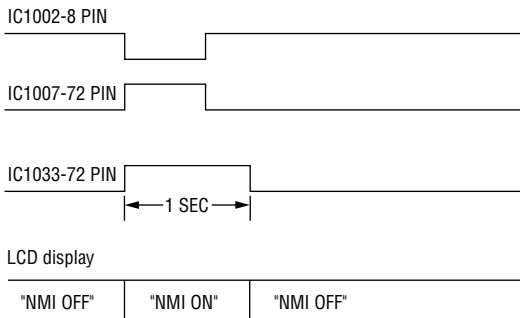
"NMI OFF" appears about one second later.

08-0A
/* NMI */

NMI OFF

Outputs the pulse to pin-73 (RA03) terminal TP1058 of the IC1033 CXD-1809.

Pulse width is about 1 sec.



3-9. NVRAM Test: [NVRAM]

After writing the word data (2 bytes) with 128 words to the even-numbered address from the address 0x00, write 128 words to the odd-numbered address from the address 0x01.

After reading and checking at every even-numbered address from the address 0x00, read and check at odd-numbered address from the address 0x01.

09-01
/* NVRAM INITIALIZE / CHECK */

09-01 SHIPPING
09-02 INITIALIZE
09-03 PATTERN CHECK

SELECT and ENTER

While pressing the button, rotate the [JOG] dial, then the setup or test starts by pressing the [ENTER] button after changed k_test_1.

• Remote selection

By sending the remote command for the setup of k_test_h and k_test_l, the test can start to perform directly without operating buttons of , [JOG], [ENTER], etc.

3-9-1. Setup for Shipment of the Machine

The data except the watch correction value and the number of times of use of the laser are initialized.

09-01
/* NVRAM INITIALIZE / CHECK */

Setting-up is under way.

Setup for shipment of the machine is under way.

09-10
/* NVRAM SHIPPING */

Result

(Normal completion)

Display of completion of setup for shipment of the machine

09-FF
/* NVRAM SHIPPING */

COMPLETE.
CUT OFF POWER!

Shut off the power supply after this.

(After completion of the test mode by setting k_test_h to 0x00, you may set the [STANDBY] mode.)

(Abnormal completion)

Display of the abnormal completion of the setup for shipment of the machine

09-10
/* NVRAM SHIP INITIALIZE */

ERROR.
REPAIR HARDWARE!

Data of the NVRAM are undefined.
Investigation to perform repair, etc is required.

Initialized data of the NVRAM

| Marks | Items | Values | Remarks |
|-------|---------------|--------|-------------------------------------|
| A | disp_cnt_A/B | 0x11 | A=Lower 4-bit, B=Higher 4-bit |
| B | deck status | 0x00 | use, mark_a/b |
| C | mark_clust_a | 0x00 | Cluster address of the mark A |
| D | mark_clust_b | 0x00 | Cluster address of the mark B |
| E | mark_sect_a | 0x00 | Sector address of the mark A |
| F | mark_sect_b | 0x00 | Sector address of the mark B |
| G | pb_stop (A/B) | 0x00 | Playback stop position address |
| H | laser (A/B) | ? | Count of use of the laser |
| I | rec_mode | 0x01 | Record ATARC mode |
| J | rev_time | 0x00 | Reverse time |
| K | pass_word | 0x00 | Password |
| L | correct | ? | Error correction value of the watch |
| M | reserve | 1 | Reserved |
| N | crc_int | ? | CRC of the above |
| O | stamp | 0x00 | Stamp character string |
| P | crc_stamp | ? | CRC in stamp character string |

3-9-2. Initialization of the NVRAM

```
09-02
/* NVRAM INITIALIZE/CHECK */
```

During execution of the initialization, “k_test_l” shows the following values.

| Value of k_test_l | Status |
|-------------------|-------------------------|
| 0x21 | During write. |
| 0x22 | During read. |
| 0xFF | Completion of the check |

Display during initialization

```
09-20
/* NVRAM INITIALIZE */
```

NOW NVRAM INITIALIZE.

Result

(Normal completion of the initialization)

If nv_error=0, the initialization has normally ended.

```
09-FF
/* NVRAM INITIALIZE */
```

COMPLETE.
CUT OFF POWER.

All data of the NVRAM are set up to 0xFFFF (the initial value of the device).

After this, shut off the power supply.

(Note) The correction information of the watch is set up to “No correction (0)”.

(Abnormal completion of the initialization)

If nv_error=0x10, the initialization has ended with failure.

```
09-FF
/* NVRAM INITIALIZE */
```

ERROR.
REPAIR HEARDWARE!

The data of the NVRAM are undefined.

Investigation to perform repair, etc is required.

(Note) The correction information of the watch is set up to “No correction (0)”.

3-9-3. 4-Pattern Check

```
09-03
/* NVRAM INITIALIZE / CHECK */
```

During execution of the check, “k_test_l” shows the following values.

| Value of k_test_l | Status |
|-------------------|--|
| 0x31 | Data write is in progress. Both even number and odd number are 0x0000. |
| 0x32 | Data read and data check are in progress. |
| 0x33 | Data write is in progress. Even number is 0x5555 and odd number is 0xAAAA. |
| 0x34 | Data read and data check are in progress. |
| 0x35 | Data write is in progress. Even number is 0xAAAA and odd number is 0x5555. |
| 0x36 | Data read and data check are in progress. |
| 0x37 | Data write is in progress. Both even number and odd number are 0xFFFF. |
| 0x38 | Data read and data check are in progress. |
| 0xFF | Check is complete. |

Display during check

```
09-31
/* NVRAM PATTERN CHECK */
```

1. NOW 00-00 PATTERN CHECK

Result of the check

(In the normal case)

If nv_error=0, the result is normal.

```
09-FF
/* NVRAM CHECK */
```

1. 00-00 PATTERN CHECK OK.
 2. 55-AA PATTERN CHECK OK.
 3. AA-55 PATTERN CHECK OK.
 4. FF-FF PATTERN CHECK OK.
- CHECK END.
CUT OFF POWER.

All data of the NVRAM are set up to 0xFFFF (the initial value of the device).

After this, shut off the power supply.

(Note) The correction information of the watch is set up to “No correction (0)”.

(In the abnormal case)

If nv_error>0, the result is abnormal.

```
09-FF
/* NVRAM CHECK */
```

1. 00-00 PATTERN CHECK OK.
2. 55-AA PATTERN CHECK OK.
3. AA-55 PATTERN CHECK ERROR.
4. FF-FF PATTERN CHECK OK.

REPAER THE HEARDWARE!

Example : An error in write and read of the AA-55 pattern

Investigation to perform repair, etc is required.

(Note) The correction information of the watch is set up to “No correction (0)”.

SECTION 4 ELECTRICAL ADJUSTMENTS

4-1. LASER POWER ADJUSTMENT

1. Enter the test mode of Checking Operations of Mechanism, and start up the adjustment program. (Refer to section 3-3-13. Checking Operations of Mechanism.)

```
:MON>mdmon
-----
MD DRIVE TEST MODE MONITOR          Wait.....      Hit '.' to exit
```

```
>>>PDMD-7 TEST MODE V2.14 [Feb. 16 1998]
>>
```

2. When the return key is pressed, the menu is displayed.

```
>>>PDMD-7 TEST MODE V2.14
P)Play A)Access N)Info E)Eject R)Rec K)Erase V)Volum !)Reset
X)Cmd L)Laser F)Focus W)Switch S)Spindl J)Jump G)FGSV D)Sled
M)EPROM U)Adjust C)Spec T)Still Y)Sync          1)Mon 2)Aging
>>
```

3. Select U)Adjust.

```
>>u
1)TEMP 2)LASER 3)EFBL/SERVO/FBIAS
5)EFBL 6)SERVO 7)FBIAS E)Eject >>
```

4. Select 2) LASER.

```
1)TEMP 2)LASER 3)EFBL/SERVO/FBIAS
5)EFBL 6)SERVO 7)FBIAS E)Eject >>2
--- READJUST?
```

5. Set the laser power meter (J-2501-046-A) and press the return key.

```
>>WRITE POWER : 6.85 mW
1)- 2)+ [DA] FD [00ED]
```

6. Adjust the laser power by pressing [1] key (decreasing the laser power), [2] key (increasing the laser power) until the laser power measurement value is as close as possible to 6.85 mW. Press the return key to set the adjustment value. (Do not take to long time for adjustment. If it takes too long time, the laser power will fluctuate due to temperature increase.)

```
1)- 2)+ [DA] FD [00ED]
1)TEMP 2)LASER 3)EFBL/SERVO/FBIAS
5)EFBL 6)SERVO 7)FBIAS E)Eject >>
```

7. Eject the probe of the laser power meter.

```
1)TEMP 2)LASER 3)EFBL/SERVO/FBIAS
5)EFBL 6)SERVO 7)FBIAS E)Eject >>e
```

4-2. SERVO ADJUSTMENT

1. Set the MD data disk (recordable disk).

2. Select 3) EFBL/SERVO/FBIAS.
 - 1)TEMP 2)LASER 3)EFBL/SERVO/FBIAS
 - 5)EFBL 6)SERVO 7)FBIAS E)Eject >>3
 - MO PIT (FBIAS)-----FBIAS [10]
 - MO GROOVE (EFBL)-----EFBL [0F]
 - MO WRITE (EFBL)-----EFBL [0F]
 - MO GROOVE (FOCUS)-----K13 [4D]
 - MO GROOVE (TRACKING)-----K23 [43] K07 [43]
 - MO GROOVE (FBIAS)-----FBIAS [2F]

T=6774(msec)

3. Press the [ESC] key to terminate the adjustment menu.

```
1)TEMP 2)LASER 3)EFBL/SERVO/FBIAS
5)EFBL 6)SERVO 7)FBIAS E)Eject >>
>>
```

4. Eject the MD data disk (recordable disk).

>>e

5. Select U)Adjust.

```
>>u
1)TEMP 2)LASER 3)EFBL/SERVO/FBIAS
5)EFBL 6)SERVO 7)FBIAS E)Eject >>
```

6. Set the MD data disk (read only disk).

7. Select 3) EFBL/SERVO/FBIAS.
 - 1)TEMP 2)LASER 3)EFBL/SERVO/FBIAS
 - 5)EFBL 6)SERVO 7)FBIAS E)Eject >>
 - CD DISC (EFBL)-----EFBL[10]
 - CD DISC (FOCUS)-----K13[38]
 - CD DISC (TRACKING)-----K23[30] K07[30]
 - CD (FBIAS)-----FBIAS[00]

T=3143(msec)

8. Press the [ESC] key to terminate the adjustment menu.

```
1)TEMP 2)LASER 3)EFBL/SERVO/FBIAS
5)EFBL 6)SERVO 7)FBIAS E)Eject >>
>>
```

9. Eject the MD data disk (read only disk).

>>e

10. Press the period [.] key to exit the adjustment program.

>>.

```
:MON>
```

11. Turn off the main power of this machine.

```
:MON>pwof
```

Note :

If discs are replaced while the machine is left in the U/Adjust mode in the machines up to Ver 2.14, the disk types may be incorrectly recognized and adjustment may not be possible.

In such a case, press the [ESC] key to terminate the U)Adjust mode once and then select U)Adjust again.

SECTION 5 DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION

Note on Printed Wiring Boards: MAIN SECTION

- : parts extracted from the component side.
- : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)
- : Pattern of the rear side.

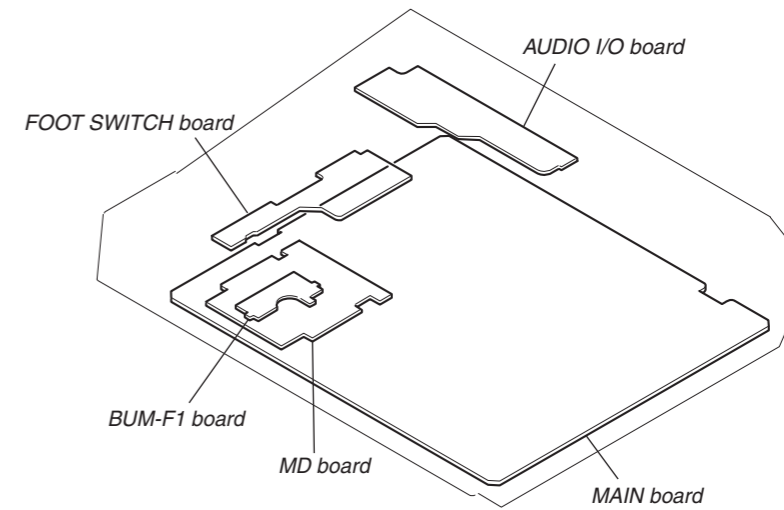
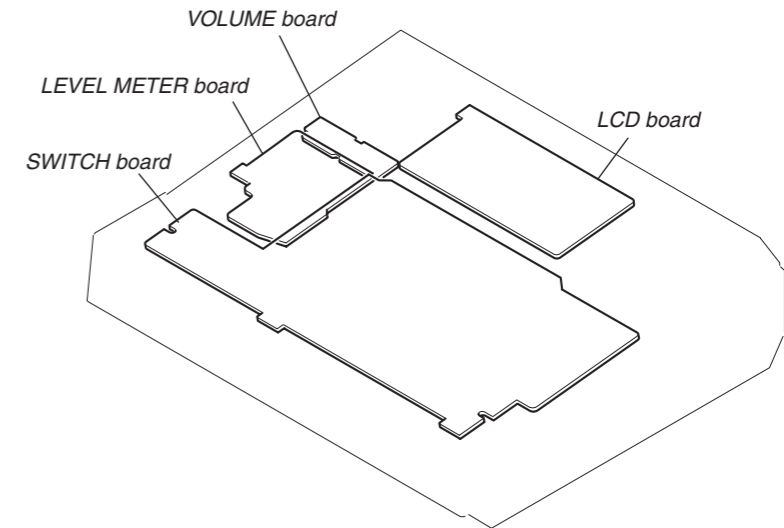
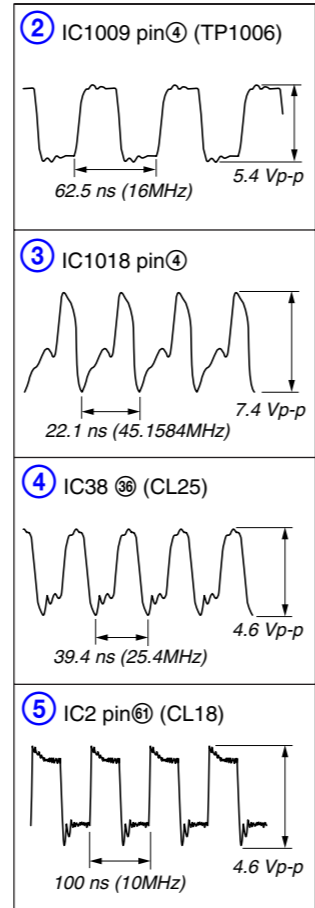
Note on Schematic Diagram: MAIN SECTION

- All capacitors are in μF unless otherwise noted. pF: μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.

Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

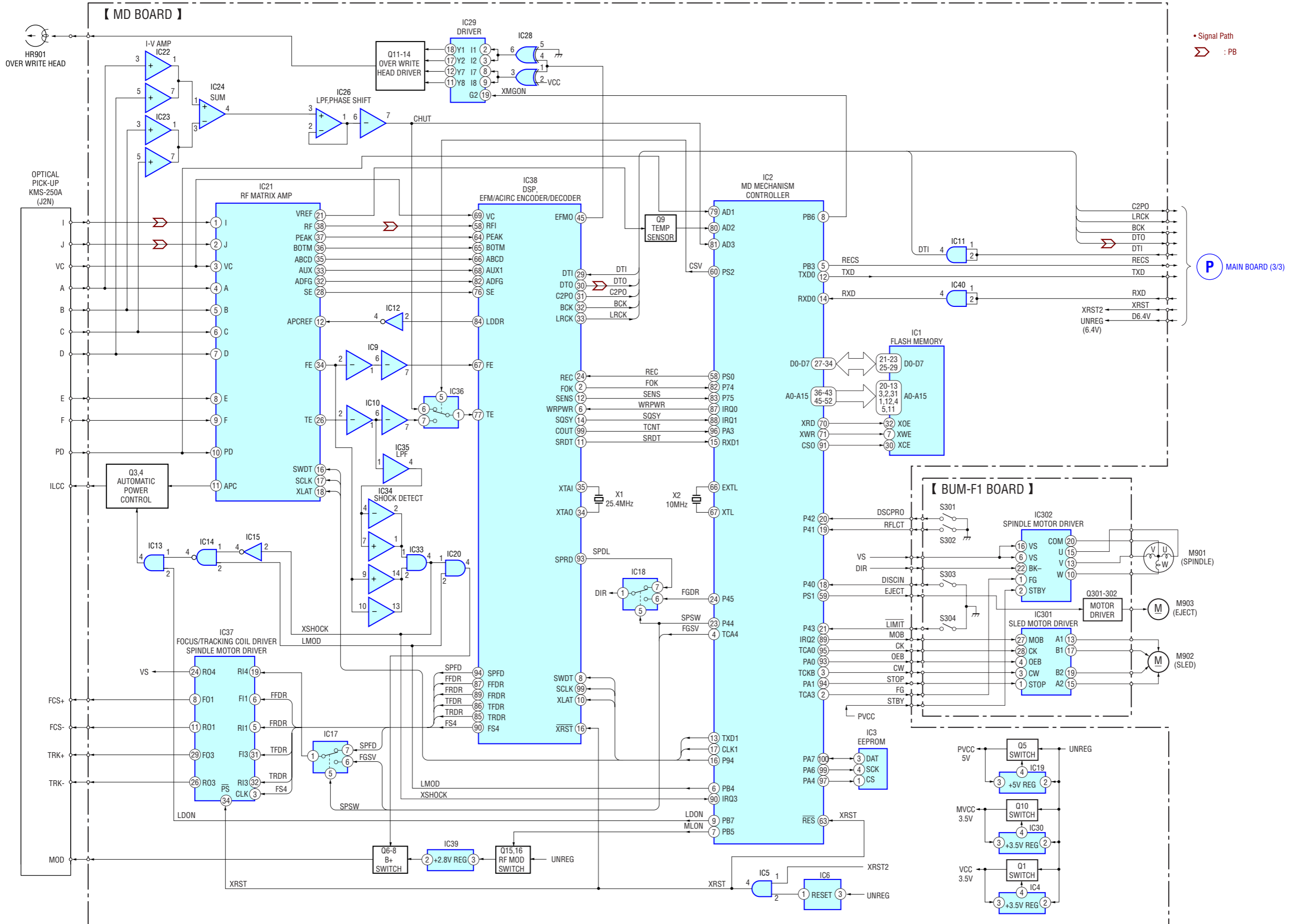
- : B+ Line.
- Power voltage is dc 12 V and fed with regulated dc power supply from battery terminal.
- Voltages and waveforms are dc with respect to ground under no-signal conditions. no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- ⊞ : PB

• Waveforms

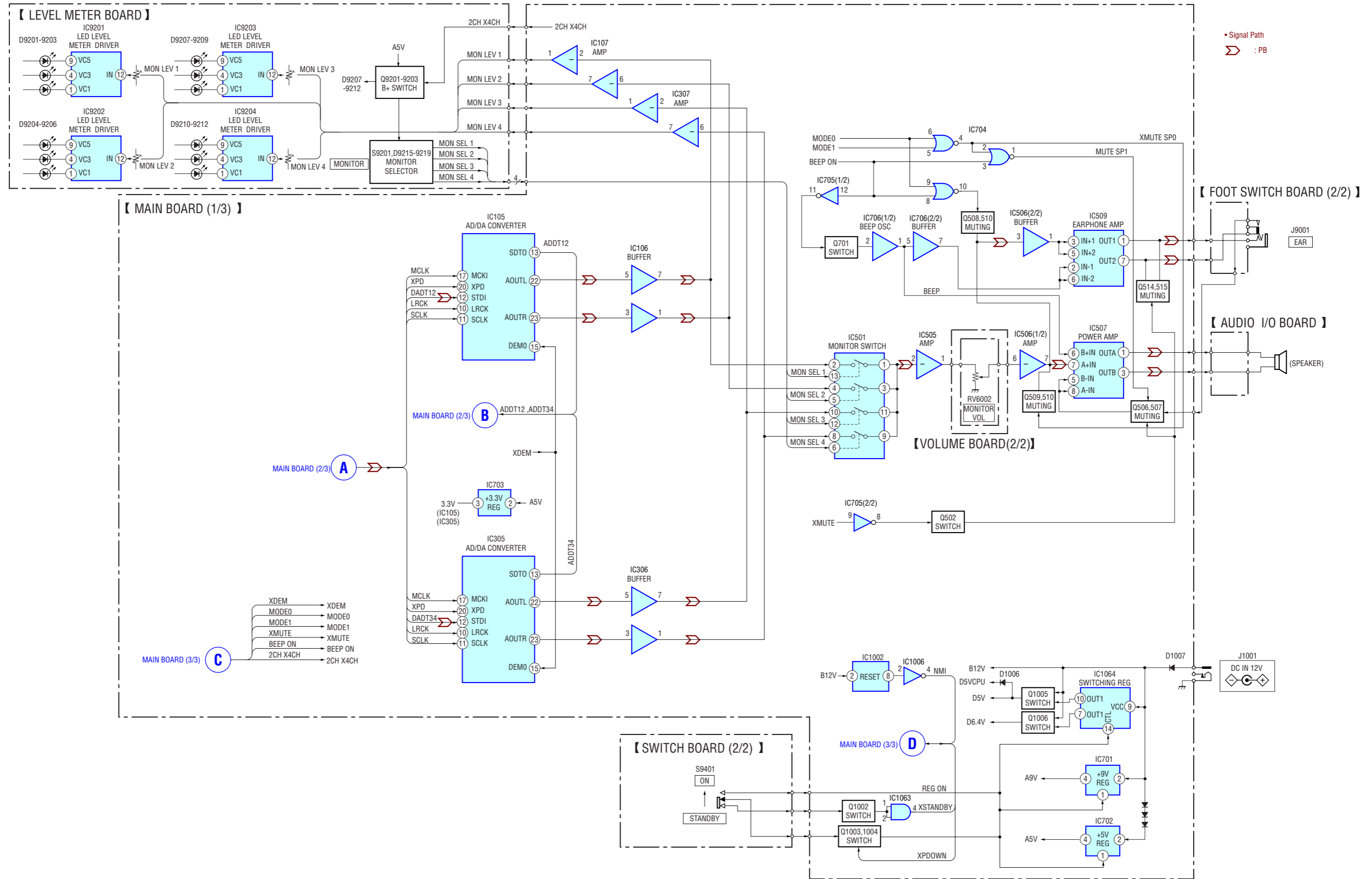


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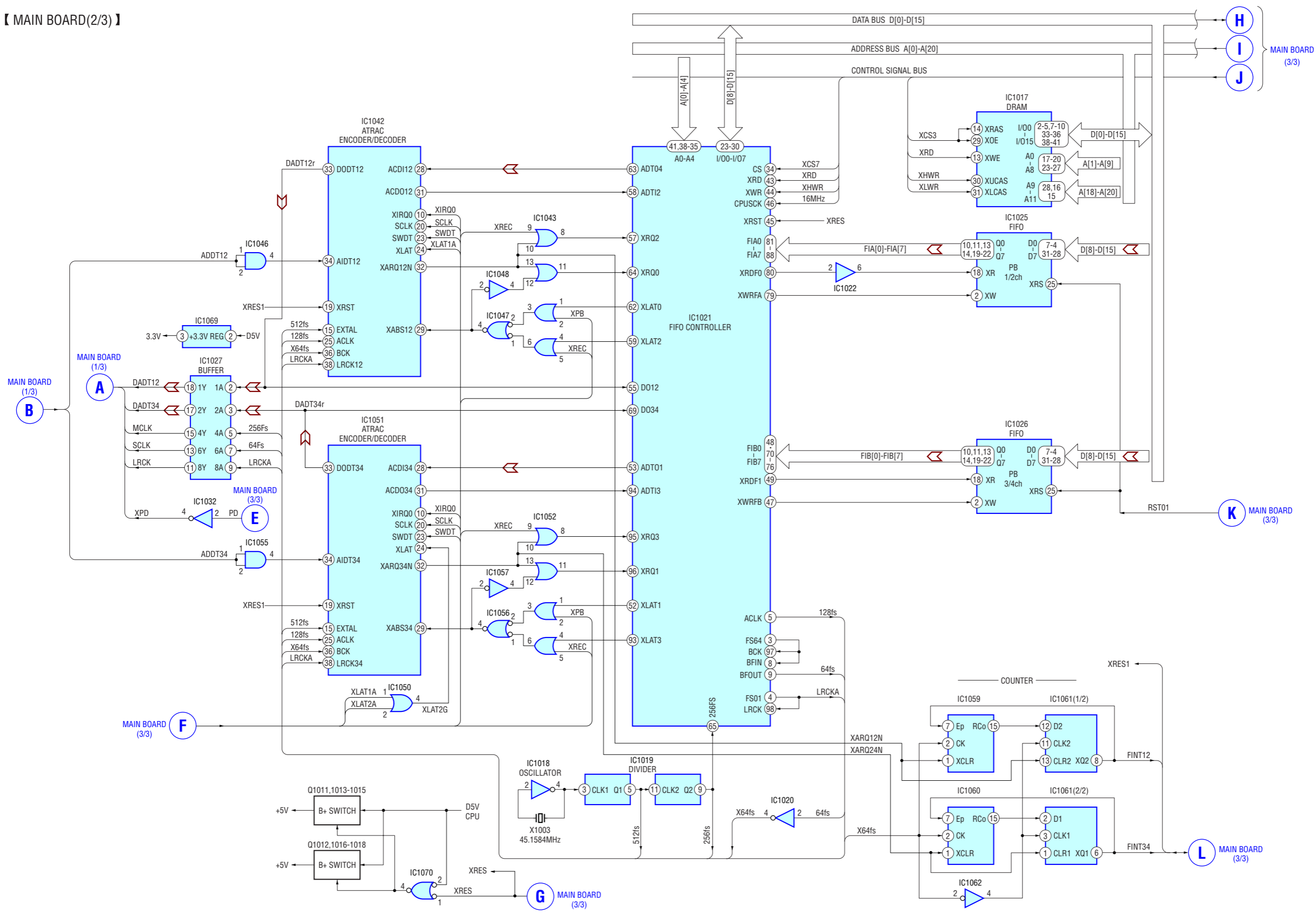
5-2. BLOCK DIAGRAMS MD SECTION



I/O SECTION




【 MAIN BOARD(2/3) 】

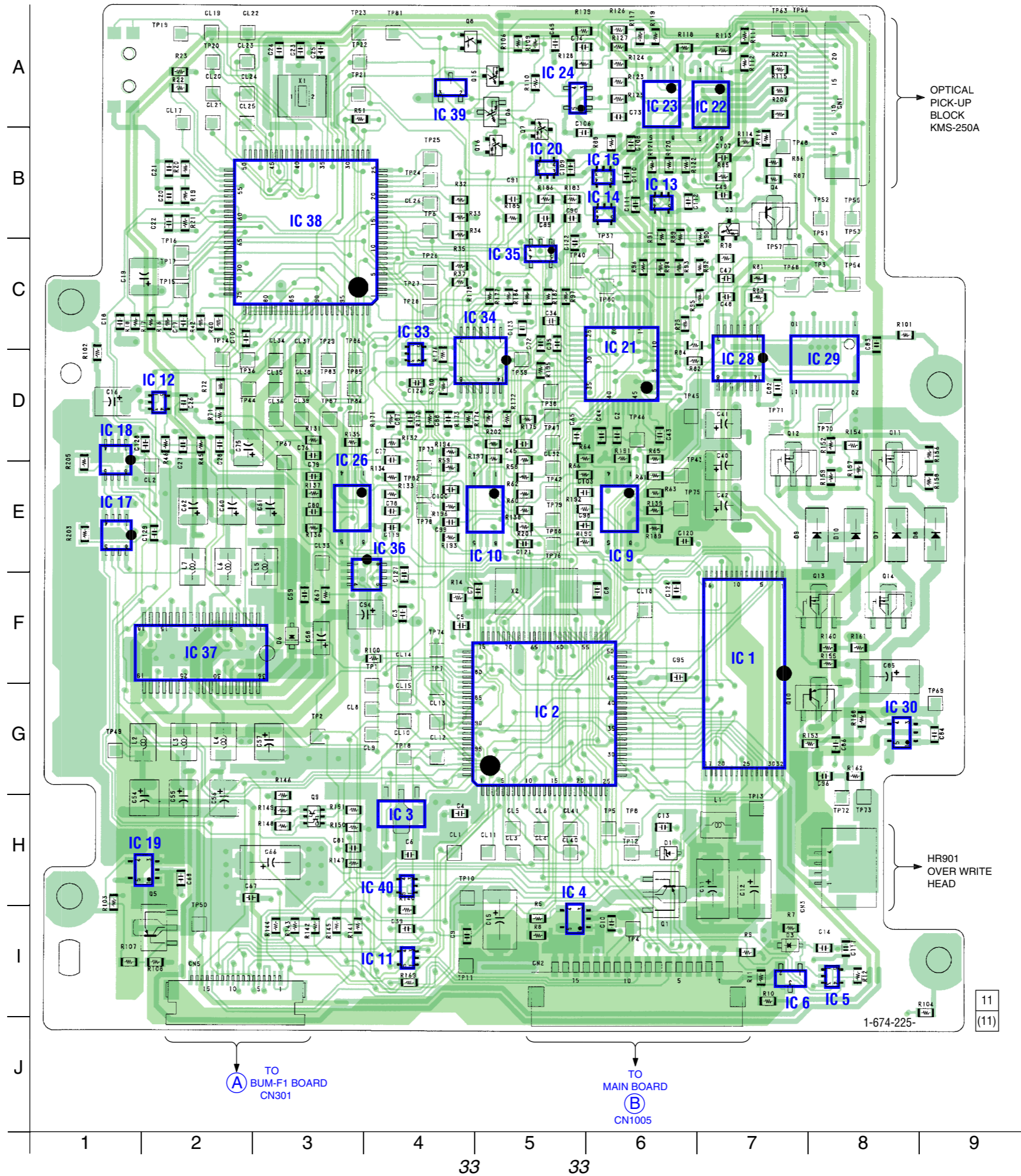


• Signal Path
 ⇨ : PB

5-3. PRINTED WIRING BOARD MD SECTION

 : Uses unleaded solder. • See page 27 for Circuit Boards Location.

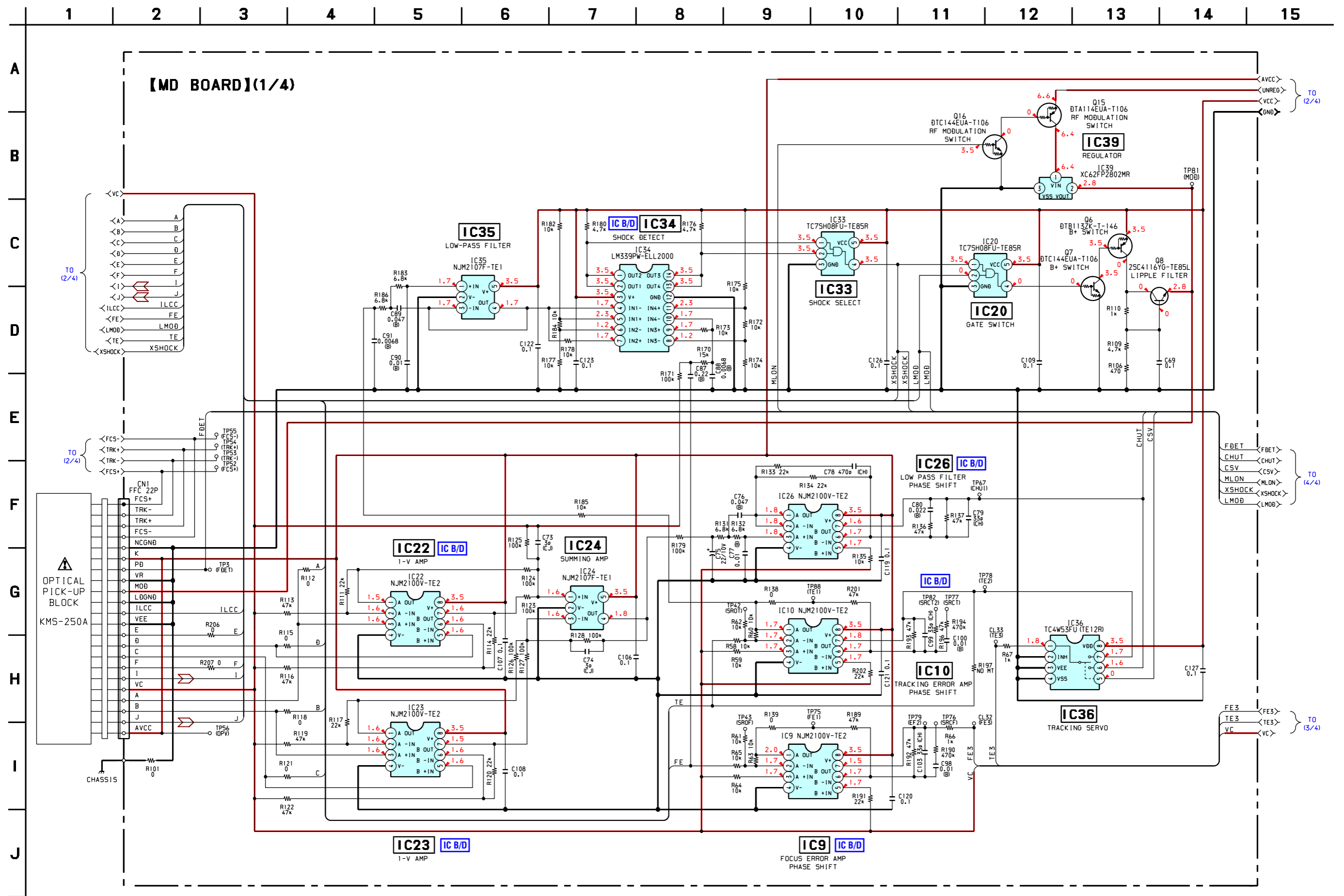
【 MD BOARD 】



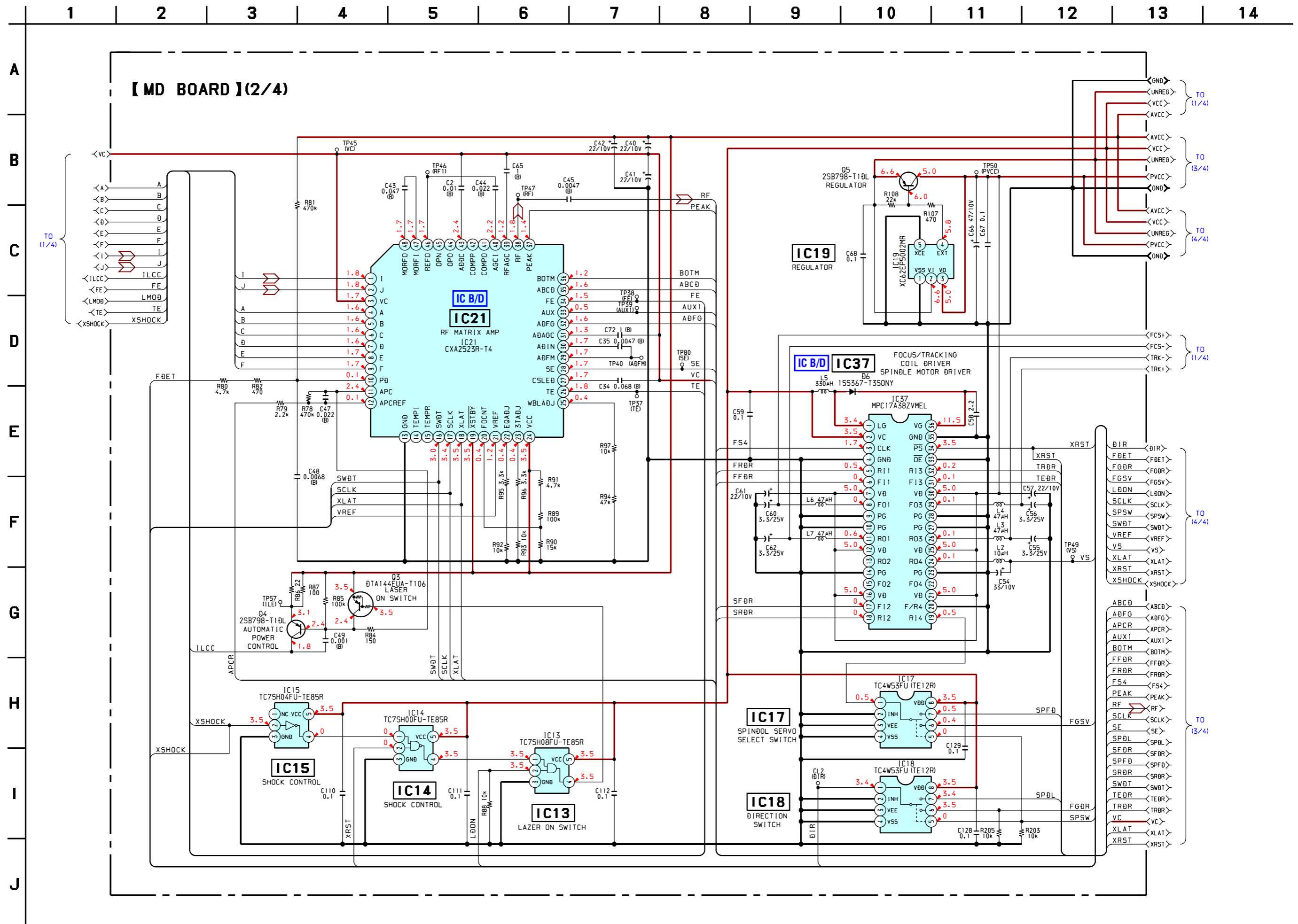
| Ref. No. | Location |
|----------|----------|
| D1 | H-6 |
| D3 | I-7 |
| D6 | F-3 |
| D7 | E-8 |
| D8 | E-7 |
| D9 | E-8 |
| D10 | E-7 |
| IC1 | F-7 |
| IC2 | G-5 |
| IC3 | H-4 |
| IC4 | H-5 |
| IC5 | I-8 |
| IC6 | I-7 |
| IC9 | E-6 |
| IC10 | E-5 |
| IC11 | I-4 |
| IC12 | D-2 |
| IC13 | B-6 |
| IC14 | B-6 |
| IC15 | B-6 |
| IC17 | E-1 |
| IC18 | D-1 |
| IC19 | H-2 |
| IC20 | B-5 |
| IC21 | D-6 |
| IC22 | A-7 |
| IC23 | A-6 |
| IC24 | A-5 |
| IC26 | E-3 |
| IC28 | D-7 |
| IC29 | D-8 |
| IC30 | G-8 |
| IC33 | C-4 |
| IC34 | C-5 |
| IC35 | C-5 |
| IC36 | E-4 |
| IC37 | F-2 |
| IC38 | B-3 |
| IC39 | A-4 |
| IC40 | H-4 |
| Q1 | I-6 |
| Q3 | B-6 |
| Q4 | B-7 |
| Q5 | H-2 |
| Q6 | A-5 |
| Q7 | A-5 |
| Q8 | A-4 |
| Q9 | H-3 |
| Q10 | G-7 |
| Q11 | D-8 |
| Q12 | D-7 |
| Q13 | F-7 |
| Q14 | F-8 |
| Q15 | A-5 |
| Q16 | B-5 |

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5-4. SCHEMATIC DIAGRAM MD SECTION (1/4) • See page 73 for IC Block Diagrams.

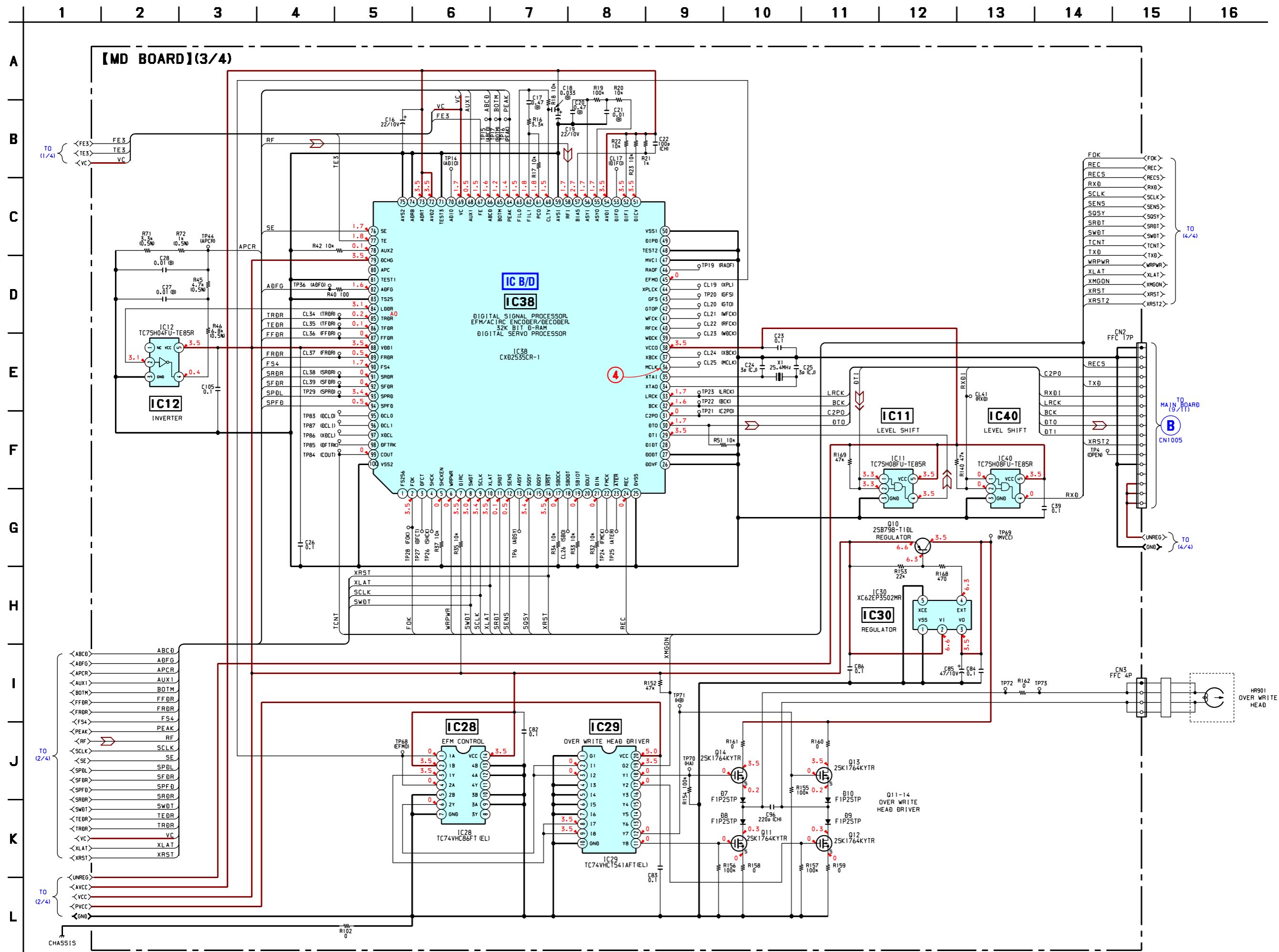


5-5. SCHEMATIC DIAGRAM MD SECTION (2/4) • See page 69, 73 for IC Block Diagrams.

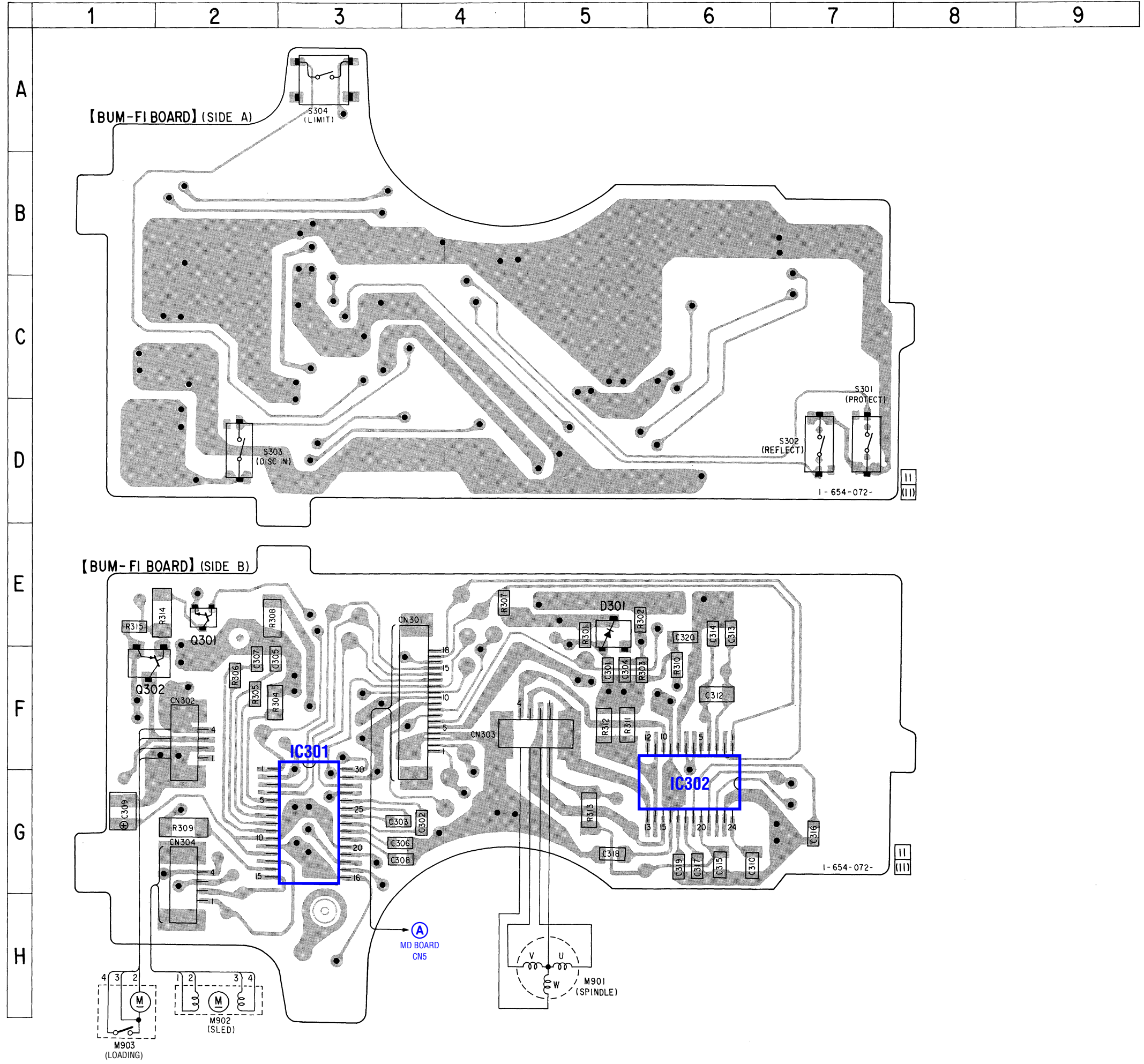


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5-6. SCHEMATIC DIAGRAM MD SECTION (3/4) • See page 27 for Waveform. • See page 70 for IC Block Diagram.



5-9. PRINTED WIRING BOARD BUM SECTION •  : Uses unleaded solder. • See page 27 for Circuit Boards Location.



1 2 3 4 5 6 7 8

A

B

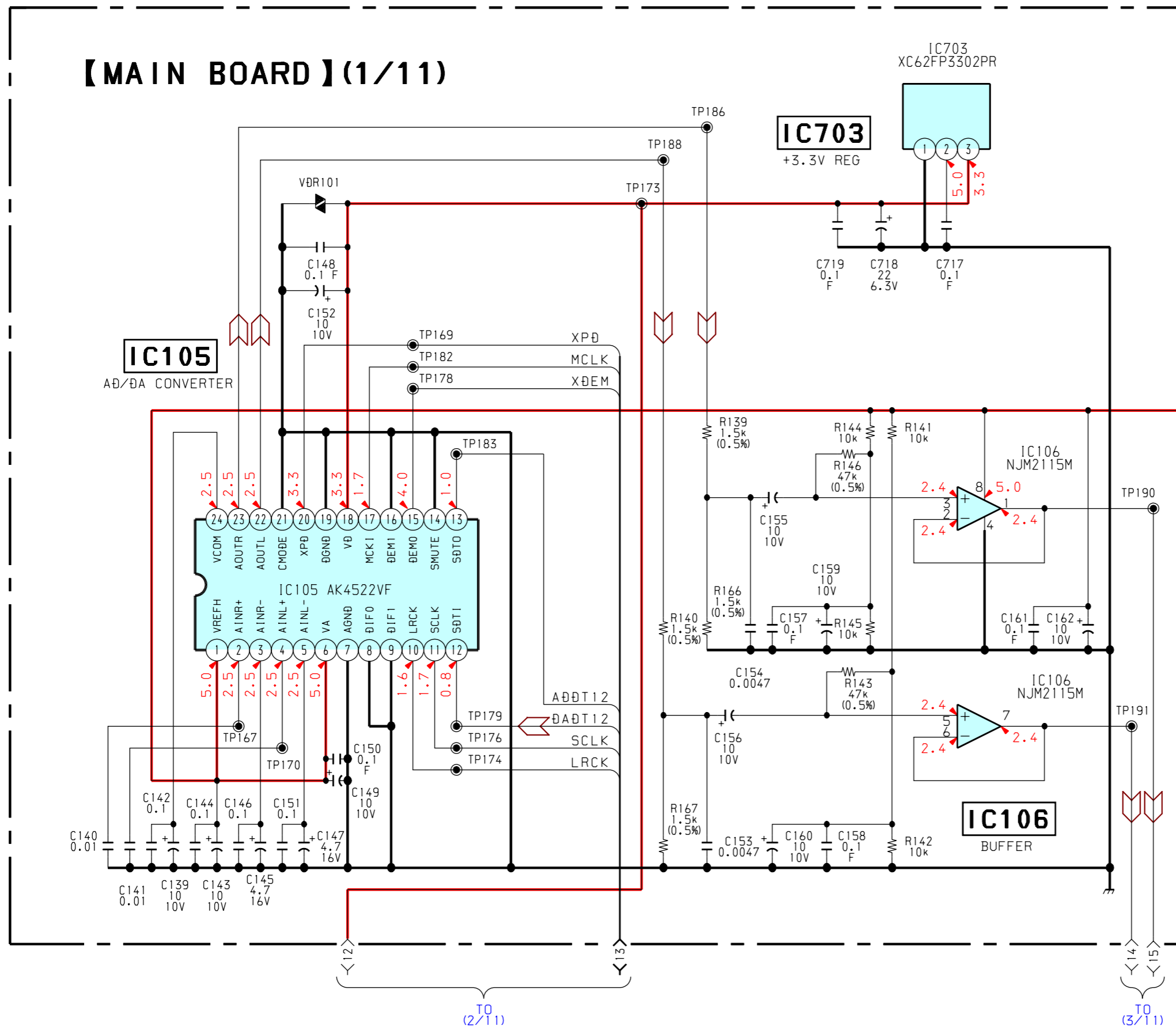
C

D

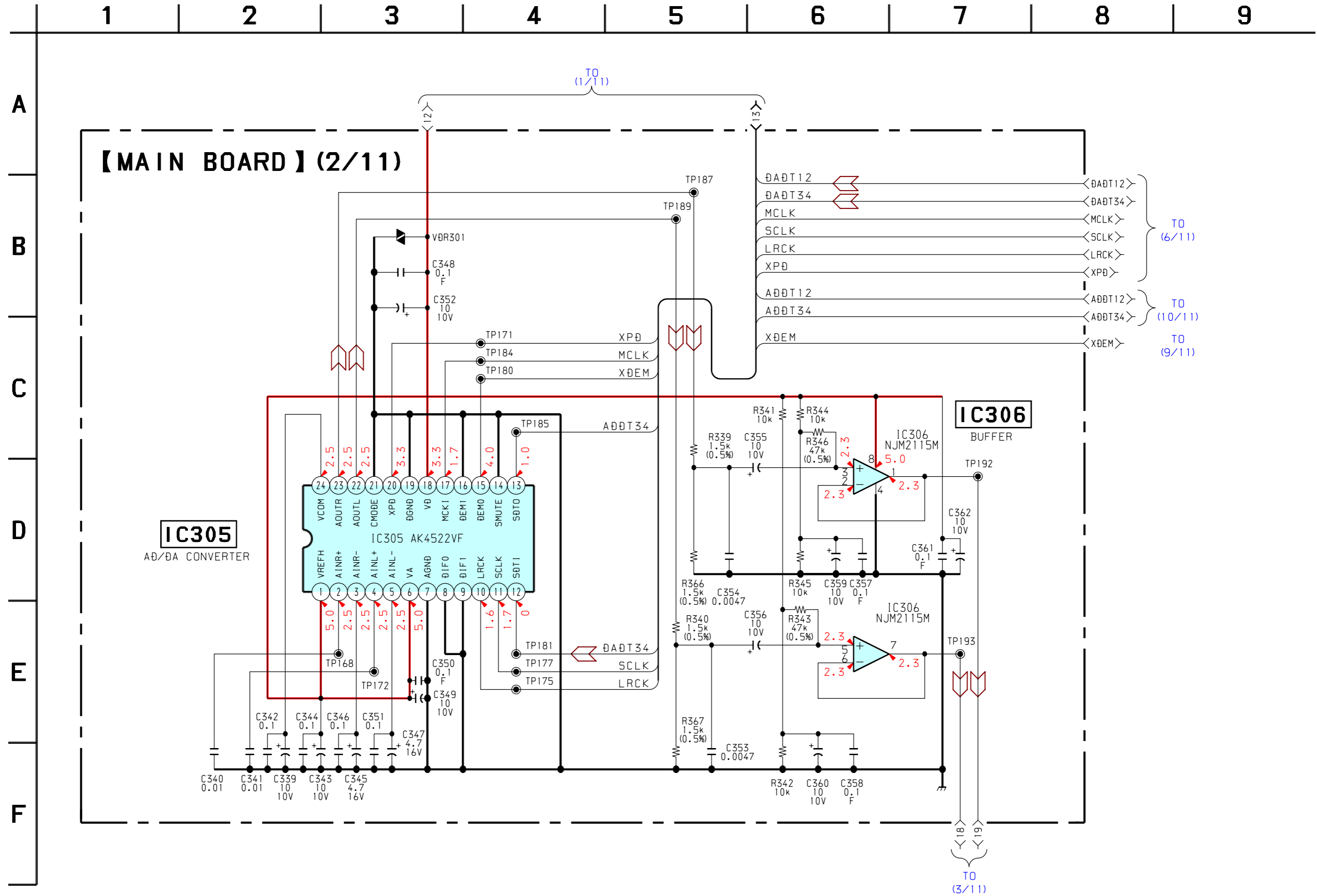
E

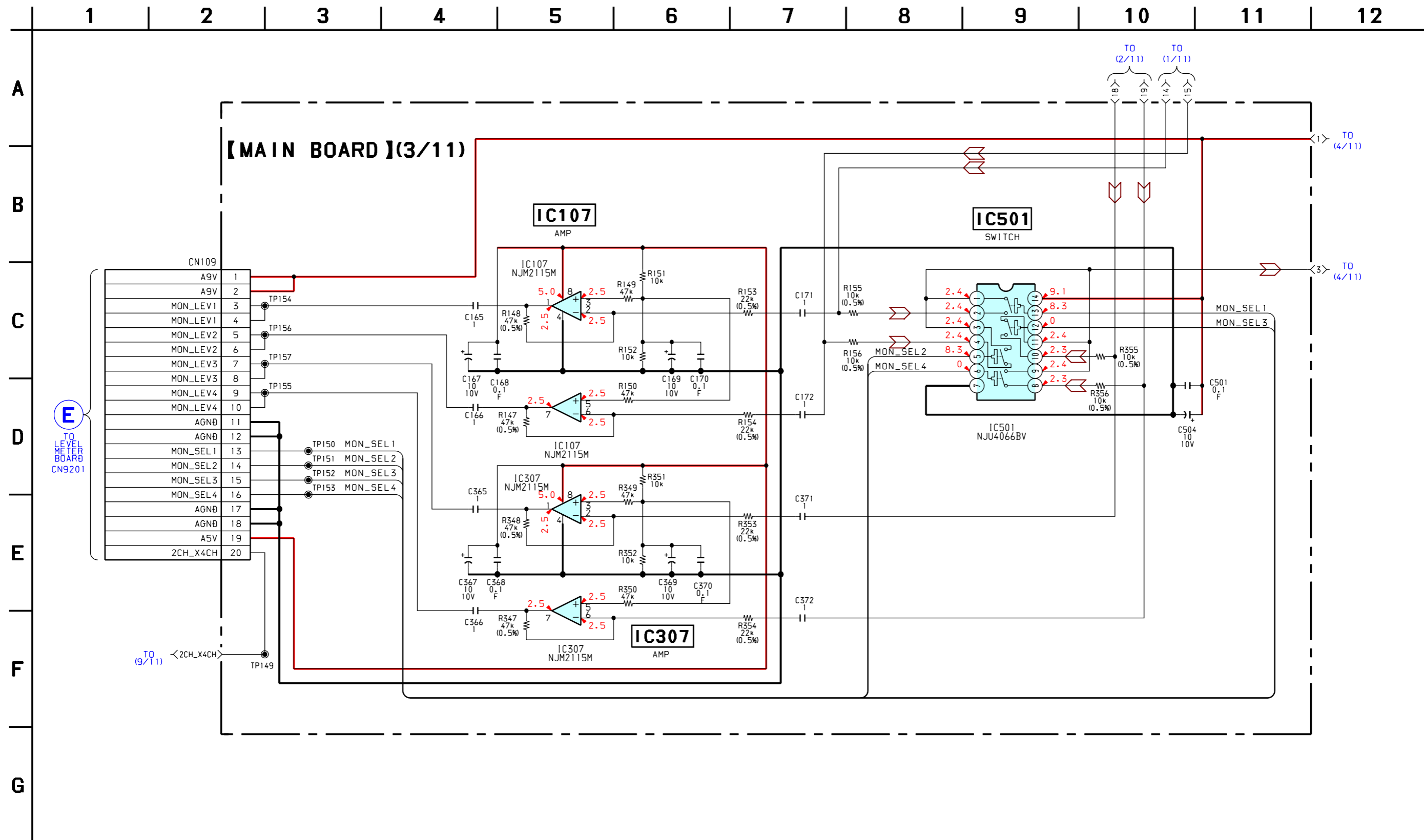
F

【MAIN BOARD】(1/11)

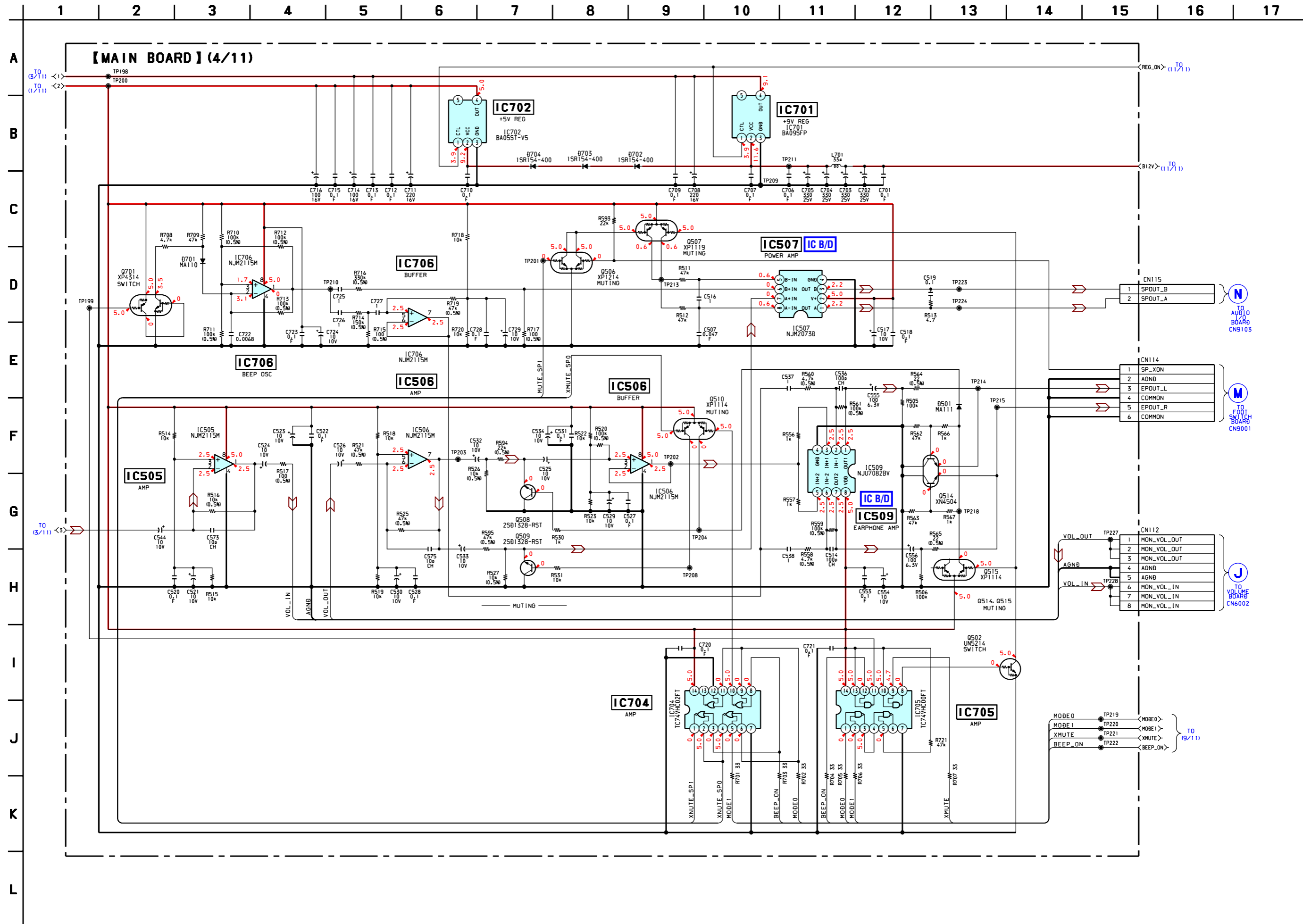


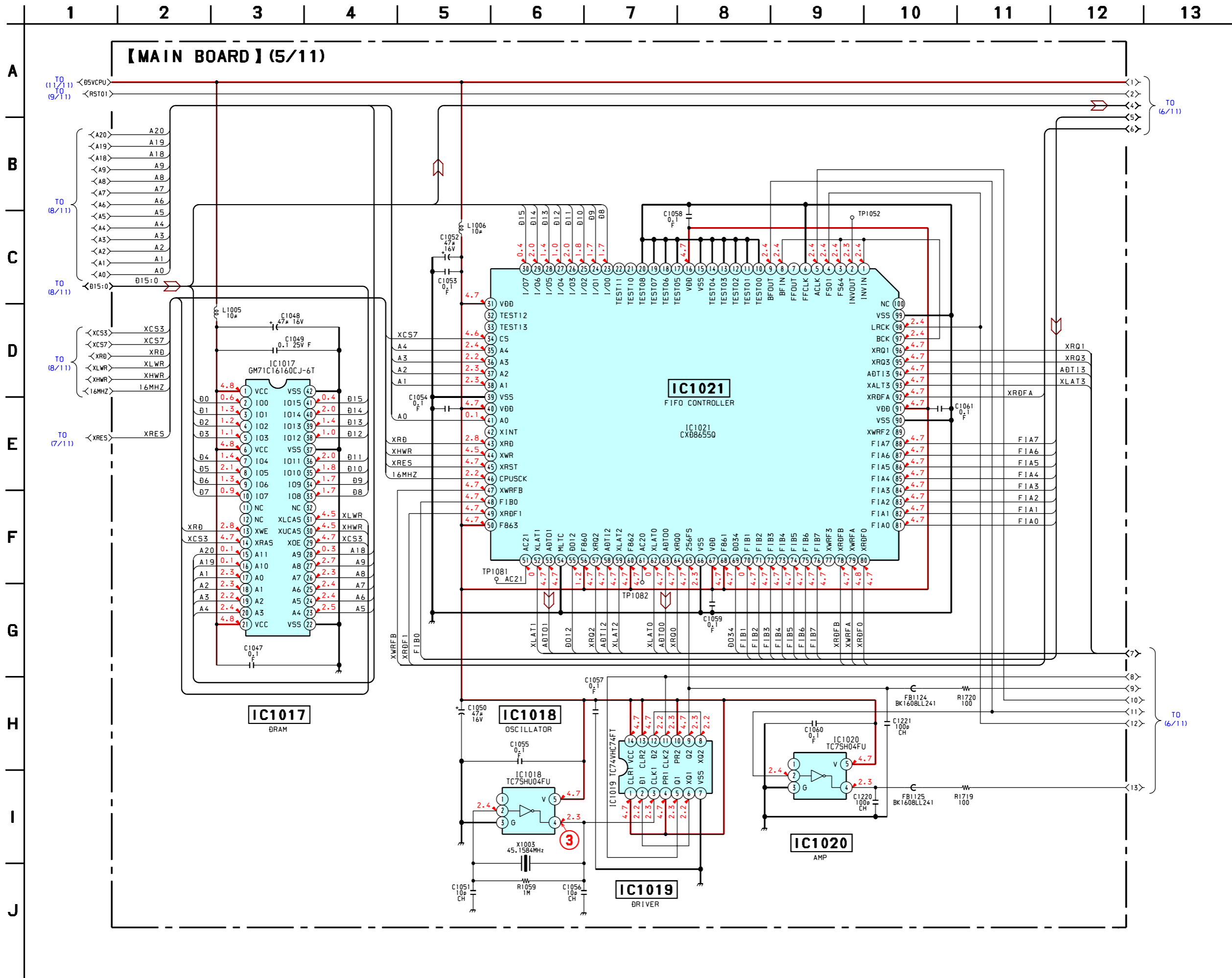
5-11. SCHEMATIC DIAGRAM MAIN SECTION (2/11)



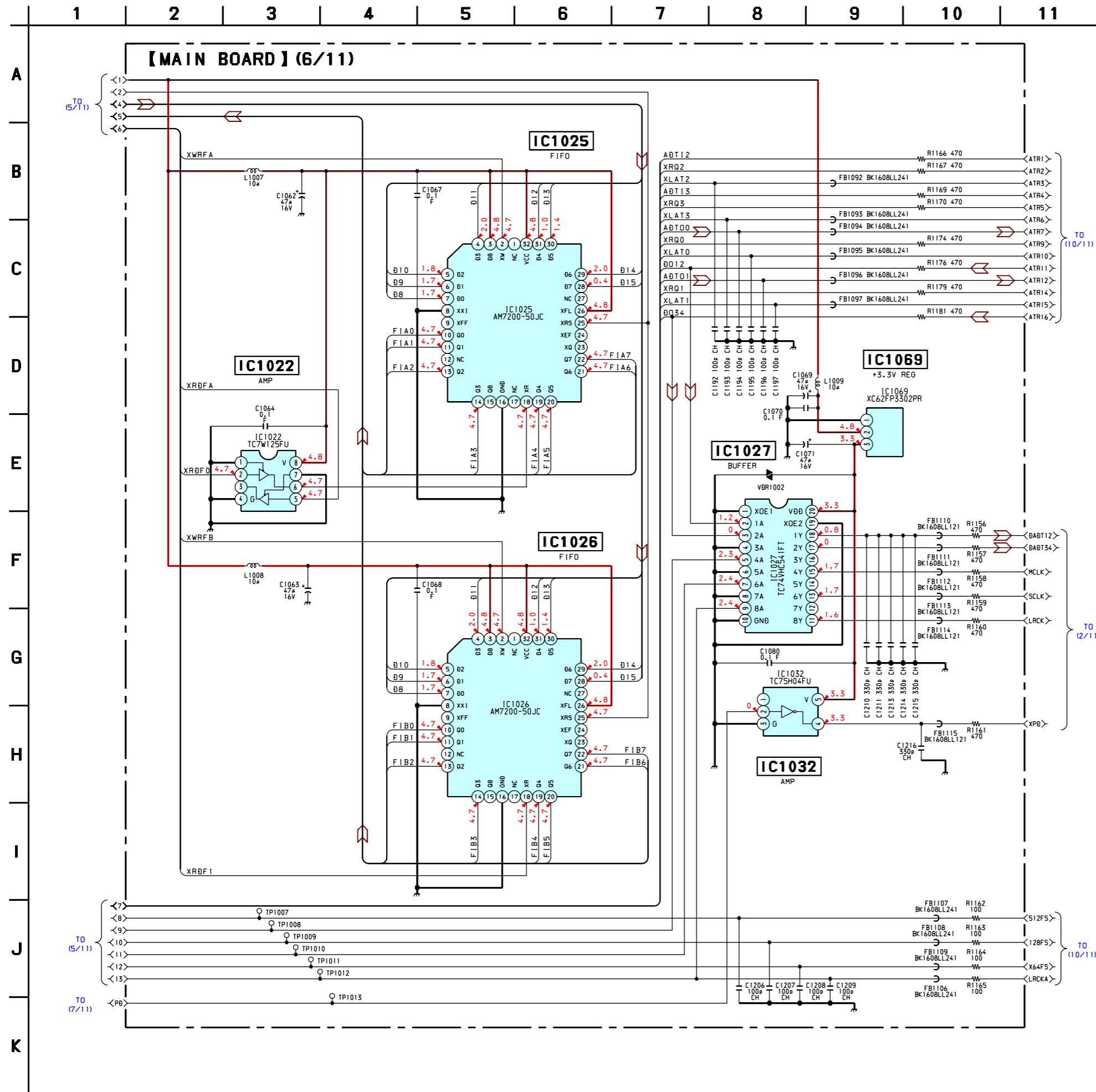


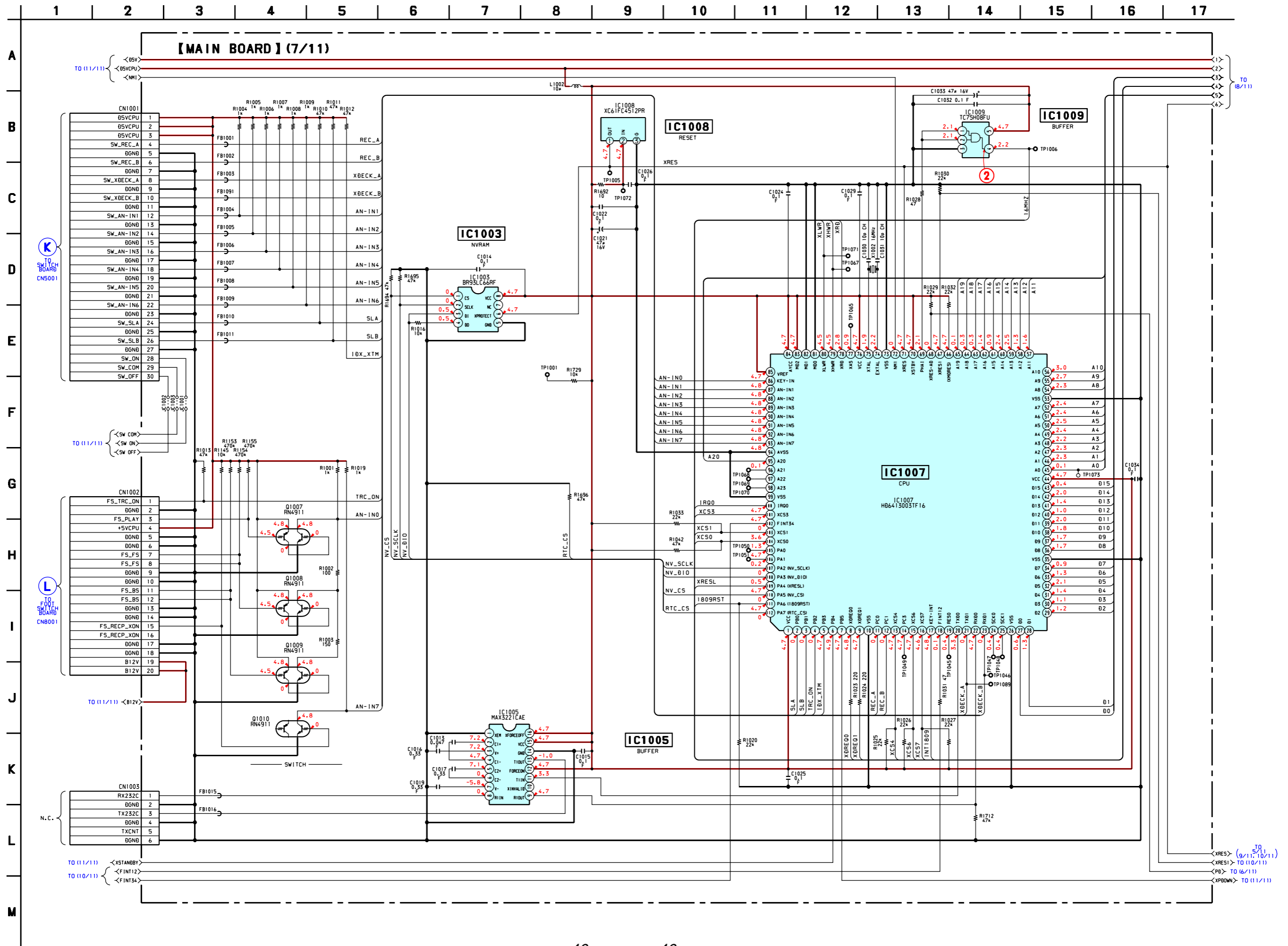
5-13. SCHEMATIC DIAGRAM MAIN SECTION (4/11) • See page 73,75 for IC Block Diagrams.



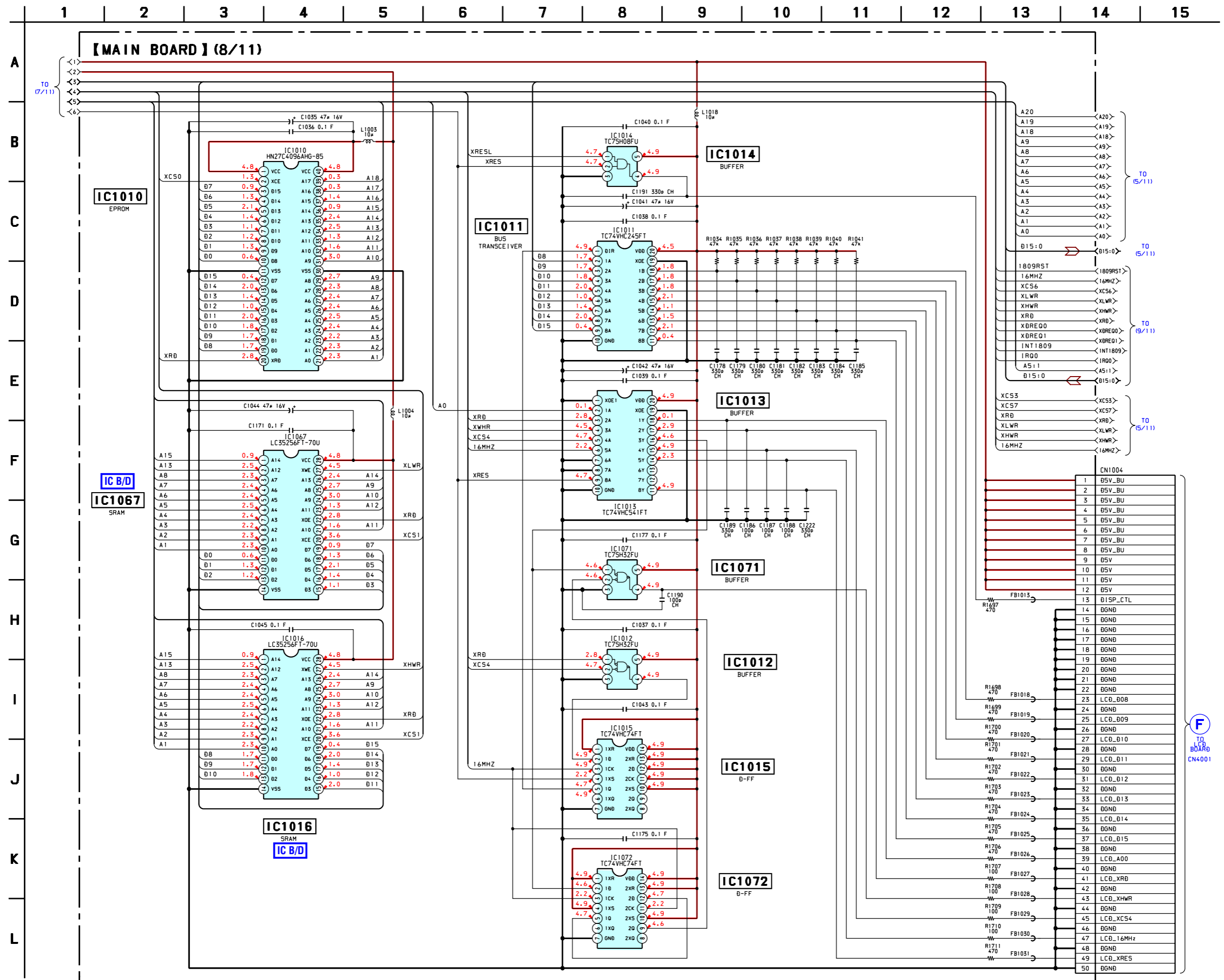


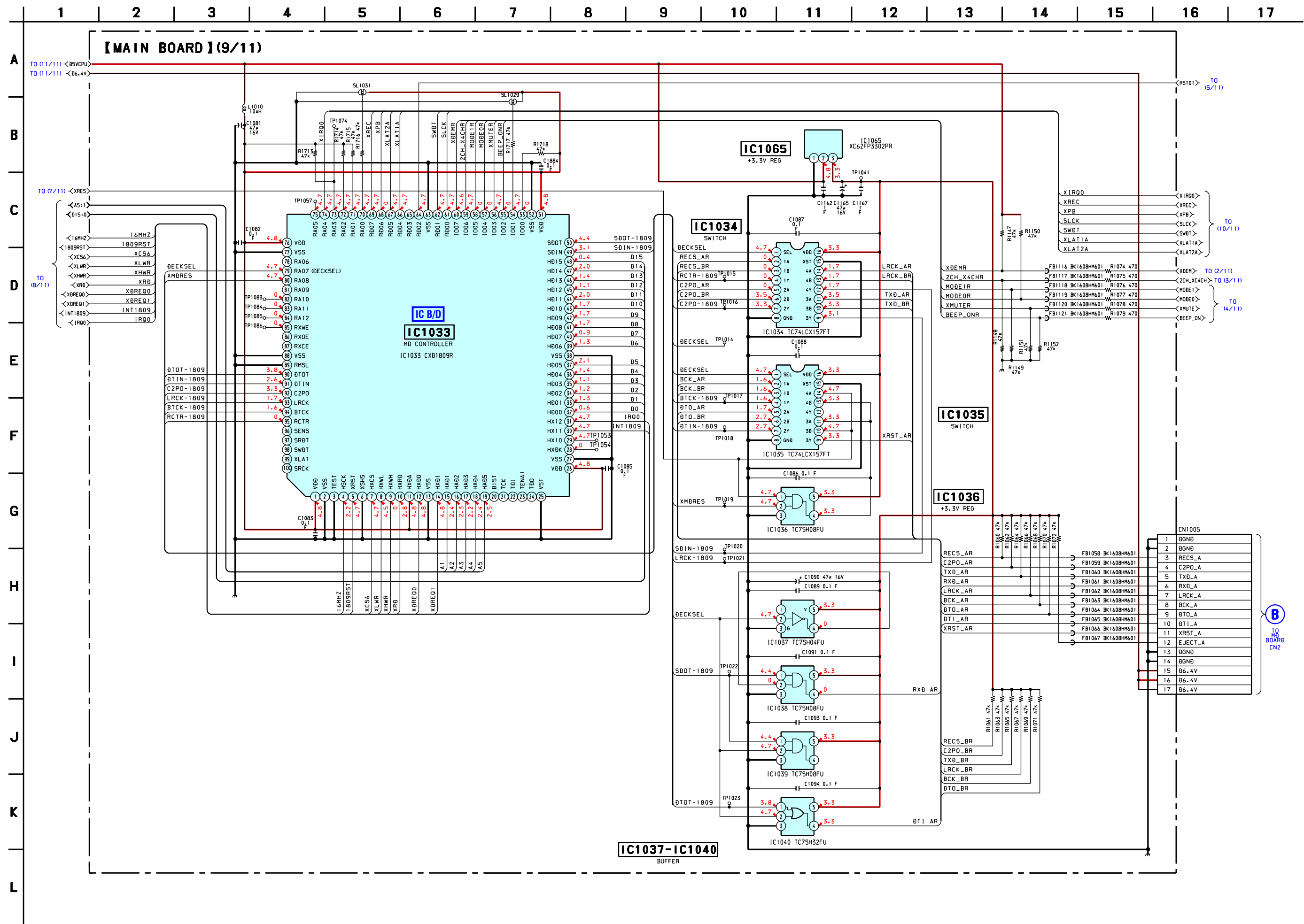
5-15. SCHEMATIC DIAGRAM MAIN SECTION (6/11)



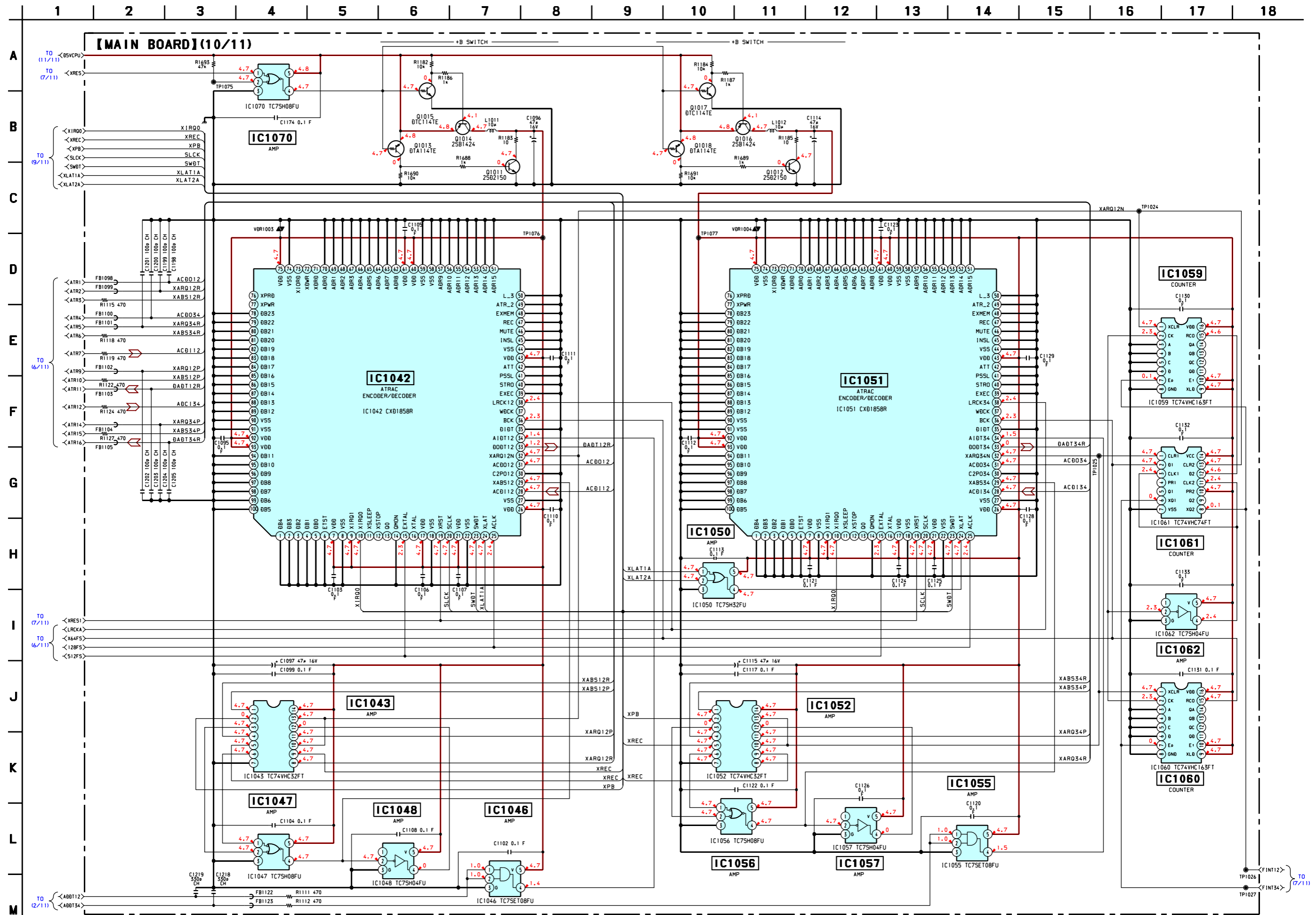


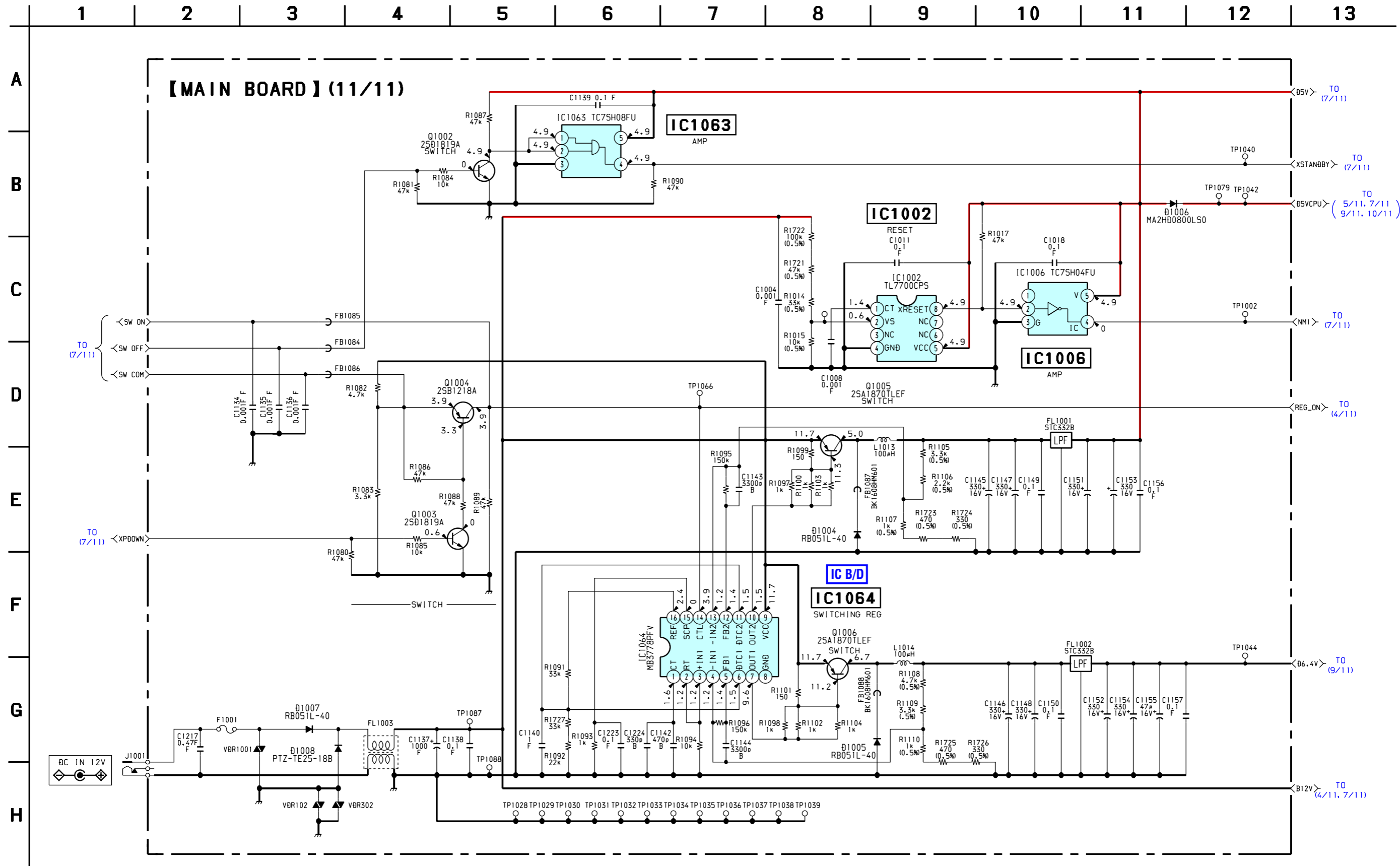
5-17. SCHEMATIC DIAGRAM MAIN SECTION (8/11) • See page 75 for IC Block Diagrams.





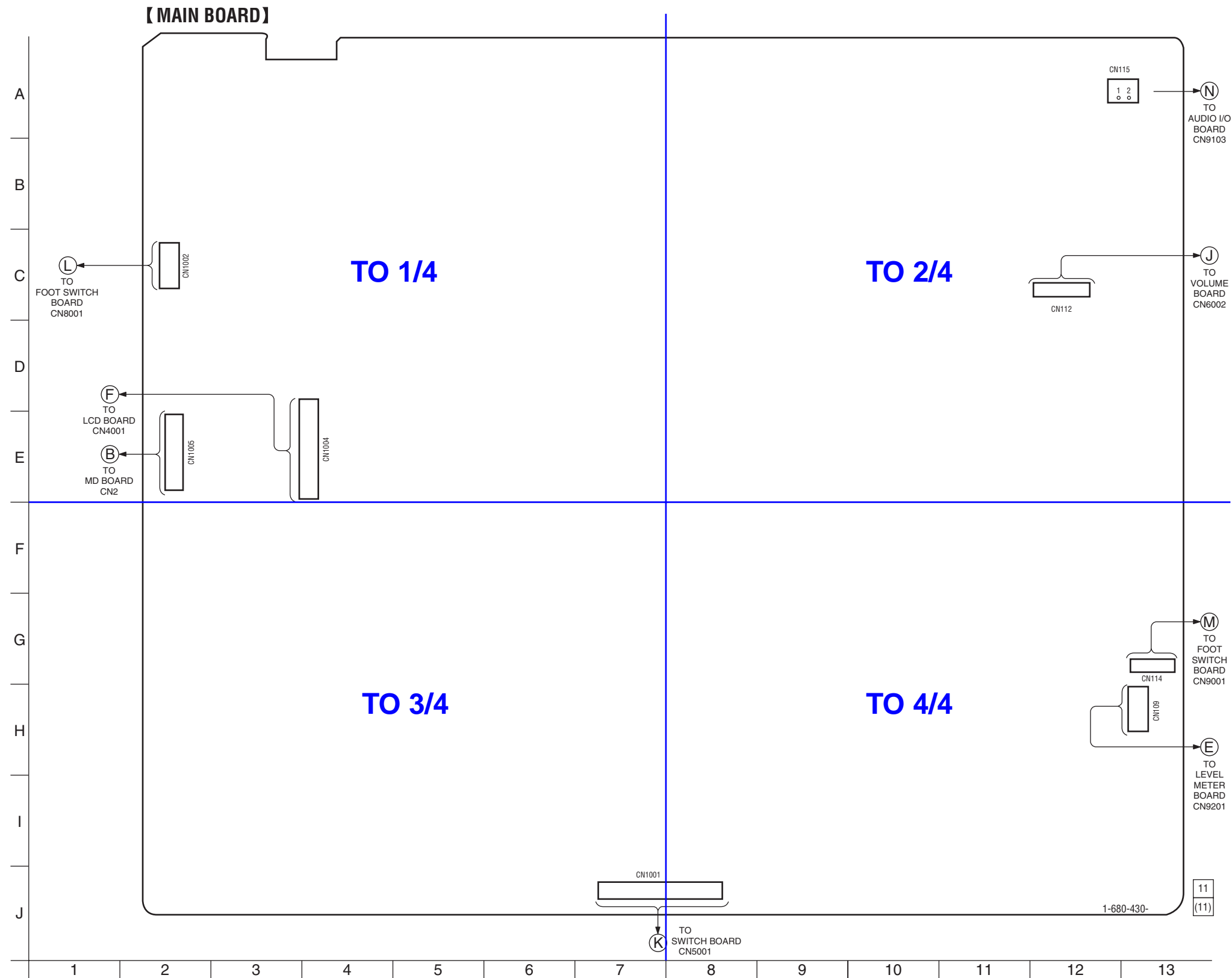
5-19. SCHEMATIC DIAGRAM MAIN SECTION (10/11)






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5-21. PRINTED WIRING BOARD MAIN SECTION •  : Uses unleaded solder. • See page 27 for Circuit Boards Location.

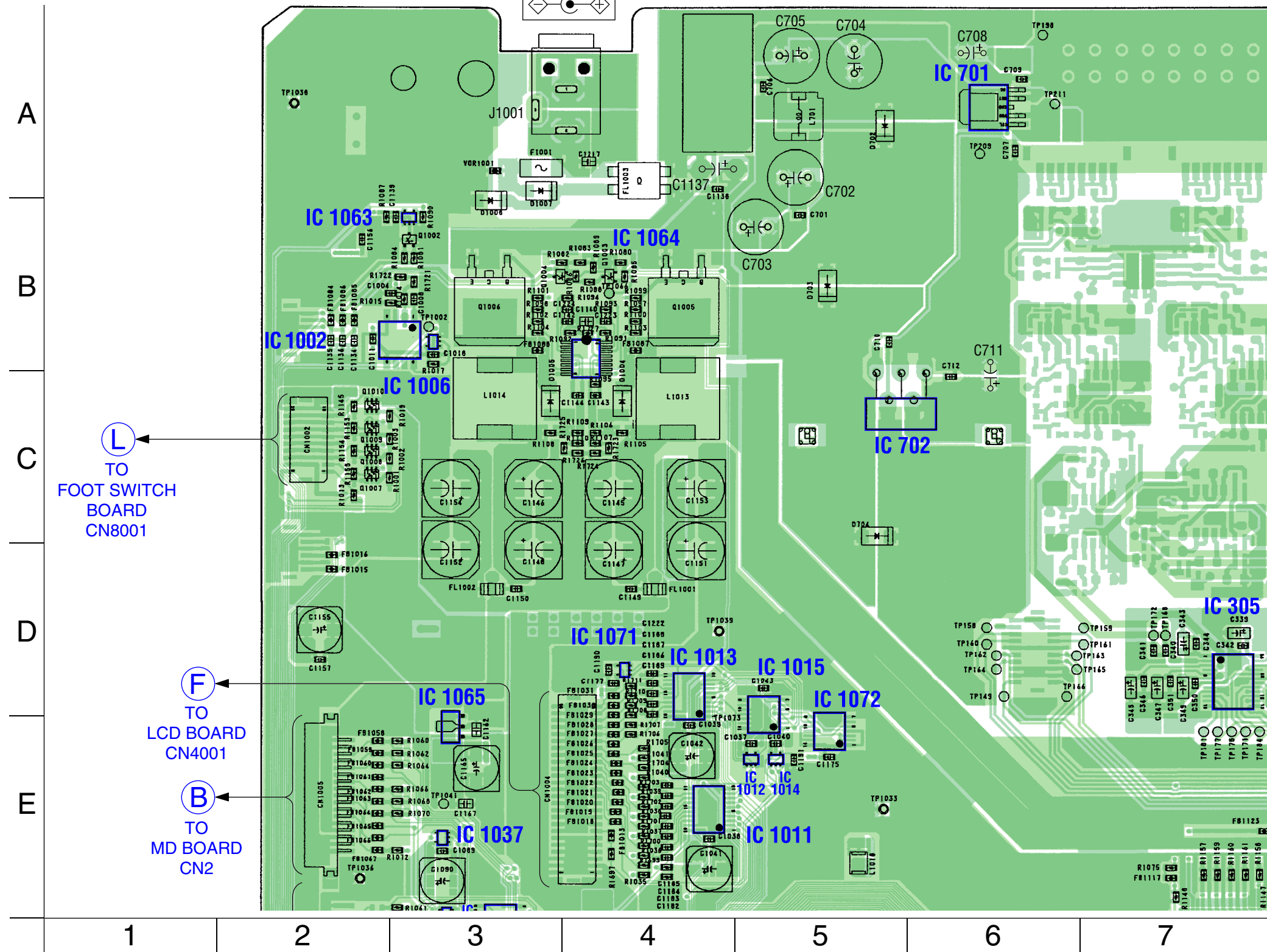


• Semiconductor Location

| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D501 | C-13 | IC1036 | F-3 |
| D701 | D-11 | IC1037 | E-3 |
| D702 | A-6 | IC1038 | F-3 |
| D703 | B-5 | IC1039 | F-3 |
| D704 | C-5 | IC1040 | F-3 |
| D1004 | C-4 | IC1042 | I-10 |
| D1005 | C-4 | IC1043 | I-11 |
| D1006 | H-3 | IC1046 | I-11 |
| D1007 | A-4 | IC1047 | I-11 |
| D1008 | B-3 | IC1048 | I-11 |
| | | IC1050 | H-10 |
| IC105 | D-9 | IC1051 | G-10 |
| IC106 | D-9 | IC1052 | H-12 |
| IC107 | F-12 | IC1055 | G-11 |
| IC305 | D-7 | IC1056 | G-11 |
| IC306 | C-9 | IC1057 | G-11 |
| IC307 | E-12 | IC1059 | H-10 |
| IC501 | D-11 | IC1060 | H-11 |
| IC505 | C-10 | IC1061 | H-11 |
| IC506 | B-11 | IC1062 | H-10 |
| IC507 | A-12 | IC1063 | B-2 |
| IC509 | D-12 | IC1064 | B-4 |
| IC701 | A-6 | IC1065 | D-3 |
| IC702 | C-5 | IC1067 | F-6 |
| IC703 | E-8 | IC1069 | F-8 |
| IC704 | D-12 | IC1070 | I-10 |
| IC705 | D-12 | IC1071 | D-4 |
| IC706 | D-11 | IC1072 | D-5 |
| IC1002 | C-3 | | |
| IC1003 | J-5 | Q502 | D-13 |
| IC1005 | H-6 | Q506 | D-12 |
| IC1006 | B-3 | Q507 | B-12 |
| IC1007 | H-5 | Q508 | C-11 |
| IC1008 | I-2 | Q509 | A-12 |
| IC1009 | H-3 | Q510 | D-11 |
| IC1010 | G-5 | Q514 | C-12 |
| IC1011 | E-5 | Q515 | C-13 |
| IC1012 | E-5 | Q701 | D-11 |
| IC1013 | D-4 | Q1002 | B-3 |
| IC1014 | E-5 | Q1003 | B-4 |
| IC1015 | D-5 | Q1004 | B-4 |
| IC1016 | F-7 | Q1005 | B-4 |
| IC1017 | G-7 | Q1006 | B-3 |
| IC1018 | I-6 | Q1007 | C-3 |
| IC1019 | H-7 | Q1008 | C-3 |
| IC1020 | H-7 | Q1009 | C-3 |
| IC1021 | H-7 | Q1010 | C-3 |
| IC1022 | H-9 | Q1011 | H-10 |
| IC1025 | G-8 | Q1012 | G-10 |
| IC1026 | H-9 | Q1013 | I-10 |
| IC1027 | G-9 | Q1014 | H-10 |
| IC1032 | G-8 | Q1015 | I-10 |
| IC1033 | F-4 | Q1016 | G-10 |
| IC1034 | F-4 | Q1017 | G-10 |
| IC1035 | F-3 | Q1018 | G-10 |

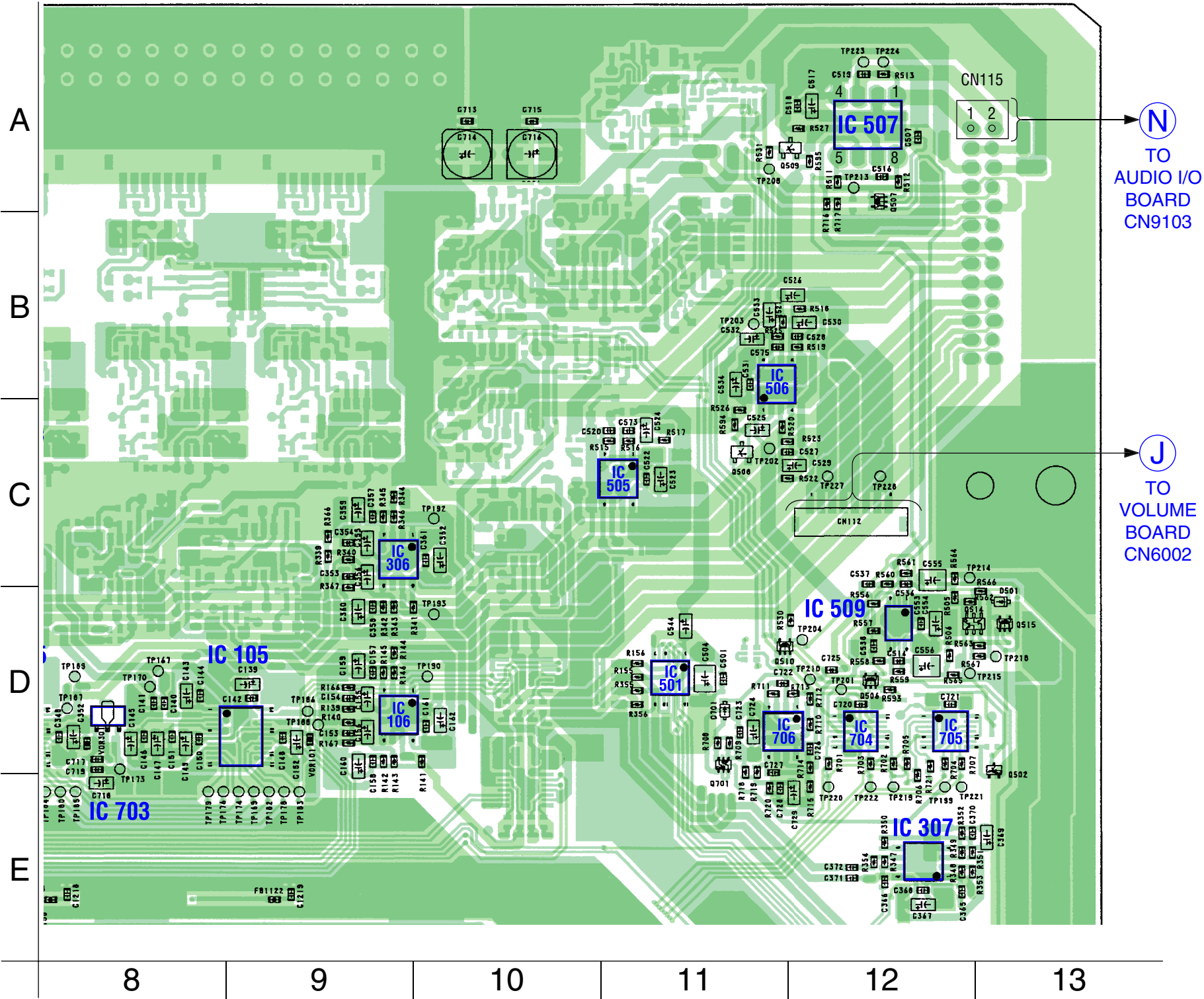
MAIN SECTION (1/4)  : Uses unleaded solder. • See page 27 for Circuit Boards Location.

[MAIN BOARD]




• Semiconductor Location

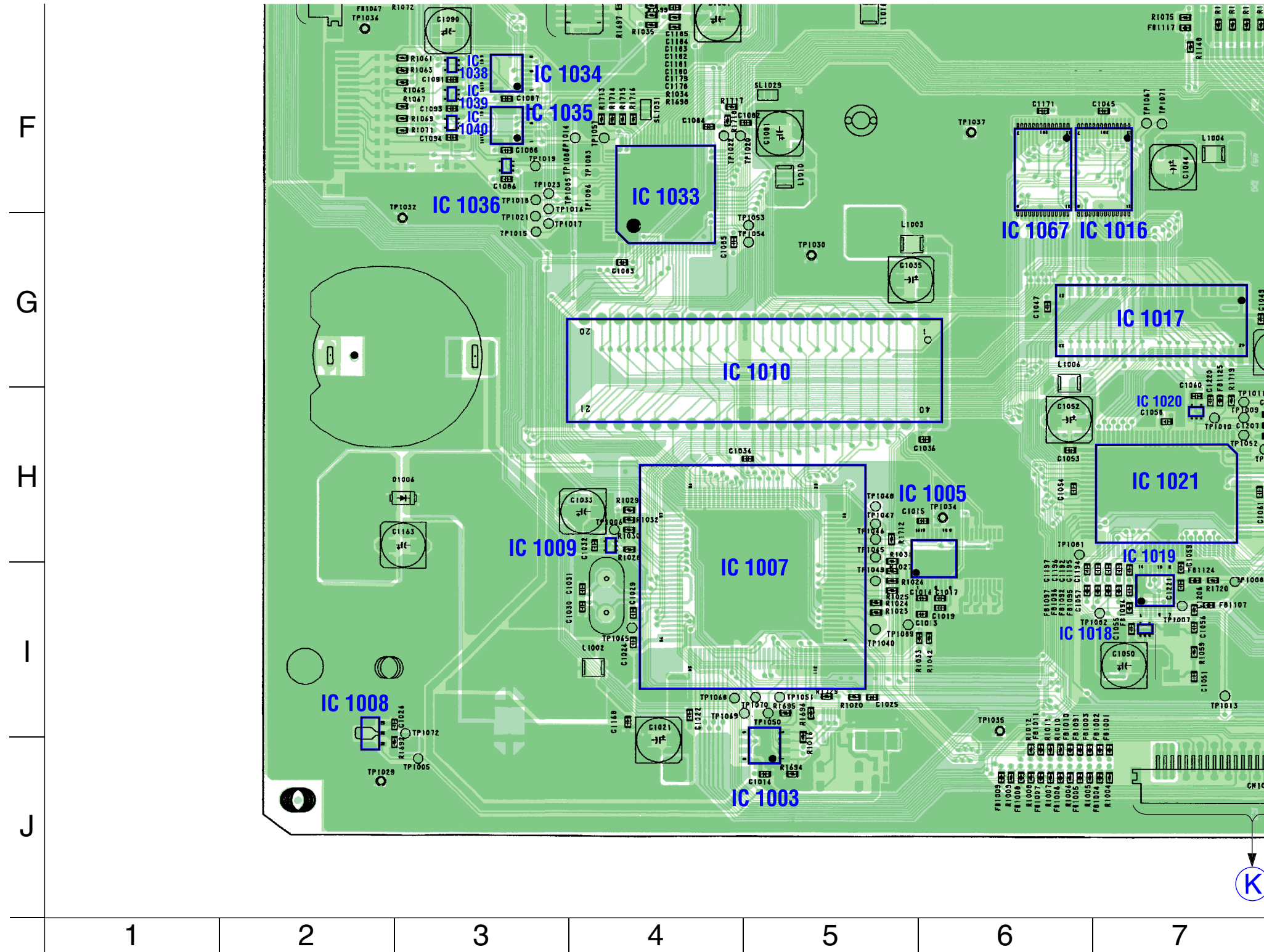
| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D501 | C-13 | IC1036 | F-3 |
| D701 | D-11 | IC1037 | E-3 |
| D702 | A-6 | IC1038 | F-3 |
| D703 | B-5 | IC1039 | F-3 |
| D704 | C-5 | IC1040 | F-3 |
| D1004 | C-4 | IC1042 | I-10 |
| D1005 | C-4 | IC1043 | I-11 |
| D1006 | H-3 | IC1046 | I-11 |
| D1007 | A-4 | IC1047 | I-11 |
| D1008 | B-3 | IC1048 | I-11 |
| | | IC1050 | H-10 |
| IC105 | D-9 | IC1051 | G-10 |
| IC106 | D-9 | IC1052 | H-12 |
| IC107 | F-12 | IC1055 | G-11 |
| IC305 | D-7 | IC1056 | G-11 |
| IC306 | C-9 | IC1057 | G-11 |
| IC307 | E-12 | IC1059 | H-10 |
| IC501 | D-11 | IC1060 | H-11 |
| IC505 | C-10 | IC1061 | H-11 |
| IC506 | B-11 | IC1062 | H-10 |
| IC507 | A-12 | IC1063 | B-2 |
| IC509 | D-12 | IC1064 | B-4 |
| IC701 | A-6 | IC1065 | D-3 |
| IC702 | C-5 | IC1067 | F-6 |
| IC703 | E-8 | IC1069 | F-8 |
| IC704 | D-12 | IC1070 | I-10 |
| IC705 | D-12 | IC1071 | D-4 |
| IC706 | D-11 | IC1072 | D-5 |
| IC1002 | C-3 | | |
| IC1003 | J-5 | Q502 | D-13 |
| IC1005 | H-6 | Q506 | D-12 |
| IC1006 | B-3 | Q507 | B-12 |
| IC1007 | H-5 | Q508 | C-11 |
| IC1008 | I-2 | Q509 | A-12 |
| IC1009 | H-3 | Q510 | D-11 |
| IC1010 | G-5 | Q514 | C-12 |
| IC1011 | E-5 | Q515 | C-13 |
| IC1012 | E-5 | Q701 | D-11 |
| IC1013 | D-4 | Q1002 | B-3 |
| IC1014 | E-5 | Q1003 | B-4 |
| IC1015 | D-5 | Q1004 | B-4 |
| IC1016 | F-7 | Q1005 | B-4 |
| IC1017 | G-7 | Q1006 | B-3 |
| IC1018 | I-6 | Q1007 | C-3 |
| IC1019 | H-7 | Q1008 | C-3 |
| IC1020 | H-7 | Q1009 | C-3 |
| IC1021 | H-7 | Q1010 | C-3 |
| IC1022 | H-9 | Q1011 | H-10 |
| IC1025 | G-8 | Q1012 | G-10 |
| IC1026 | H-9 | Q1013 | I-10 |
| IC1027 | G-9 | Q1014 | H-10 |
| IC1032 | G-8 | Q1015 | I-10 |
| IC1033 | F-4 | Q1016 | G-10 |
| IC1034 | F-4 | Q1017 | G-10 |
| IC1035 | F-3 | Q1018 | G-10 |



• Semiconductor Location

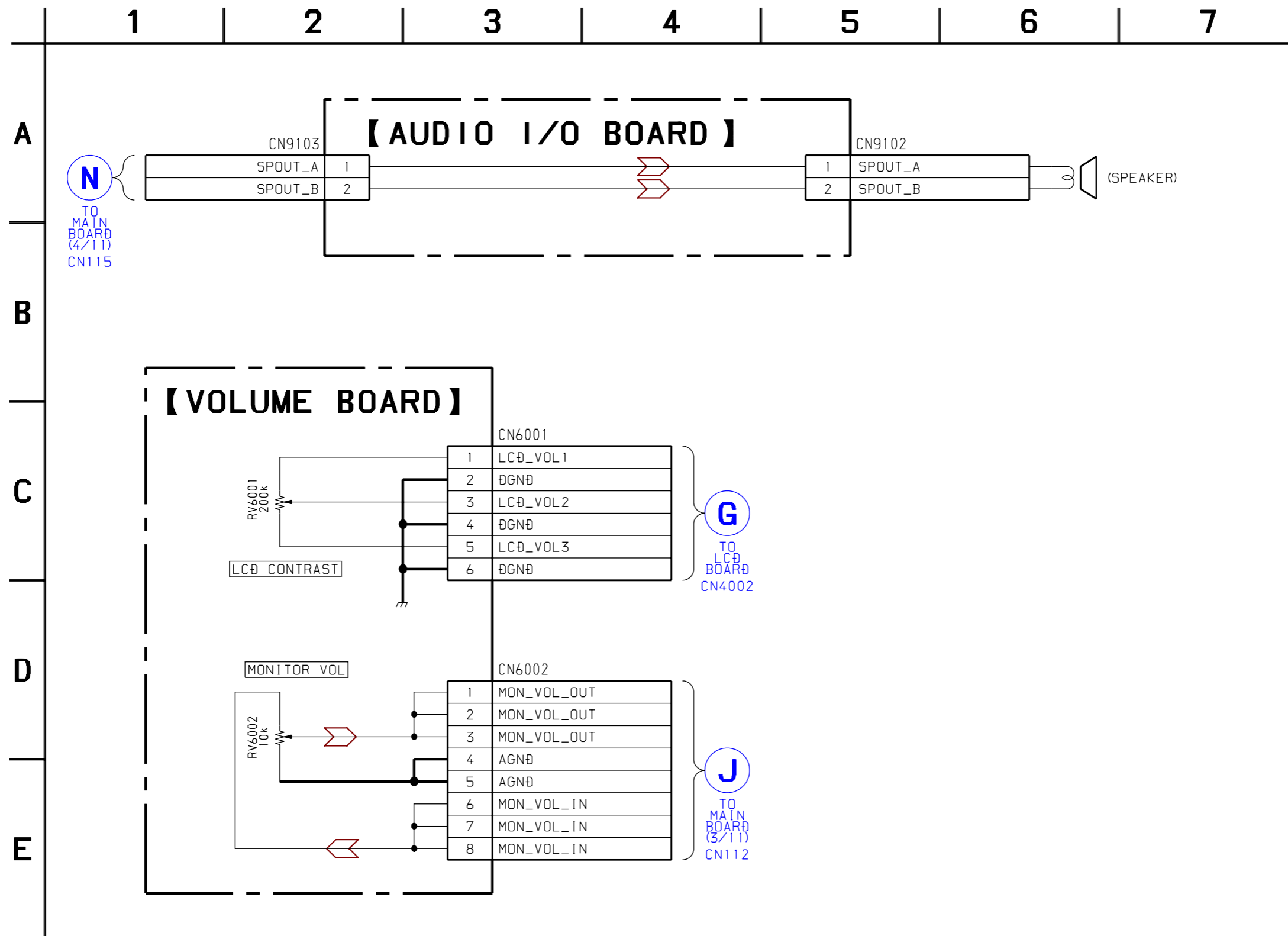
| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D501 | C-13 | IC1036 | F-3 |
| D701 | D-11 | IC1037 | E-3 |
| D702 | A-6 | IC1038 | F-3 |
| D703 | B-5 | IC1039 | F-3 |
| D704 | C-5 | IC1040 | F-3 |
| D1004 | C-4 | IC1042 | I-10 |
| D1005 | C-4 | IC1043 | I-11 |
| D1006 | H-3 | IC1046 | I-11 |
| D1007 | A-4 | IC1047 | I-11 |
| D1008 | B-3 | IC1048 | I-11 |
| | | IC1050 | H-10 |
| IC105 | D-9 | IC1051 | G-10 |
| IC106 | D-9 | IC1052 | H-12 |
| IC107 | F-12 | IC1055 | G-11 |
| IC305 | D-7 | IC1056 | G-11 |
| IC306 | C-9 | IC1057 | G-11 |
| IC307 | E-12 | IC1059 | H-10 |
| IC501 | D-11 | IC1060 | H-11 |
| IC505 | C-10 | IC1061 | H-11 |
| IC506 | B-11 | IC1062 | H-10 |
| IC507 | A-12 | IC1063 | B-2 |
| IC509 | D-12 | IC1064 | B-4 |
| IC701 | A-6 | IC1065 | D-3 |
| IC702 | C-5 | IC1067 | F-6 |
| IC703 | E-8 | IC1069 | F-8 |
| IC704 | D-12 | IC1070 | I-10 |
| IC705 | D-12 | IC1071 | D-4 |
| IC706 | D-11 | IC1072 | D-5 |
| IC1002 | C-3 | | |
| IC1003 | J-5 | Q502 | D-13 |
| IC1005 | H-6 | Q506 | D-12 |
| IC1006 | B-3 | Q507 | B-12 |
| IC1007 | H-5 | Q508 | C-11 |
| IC1008 | I-2 | Q509 | A-12 |
| IC1009 | H-3 | Q510 | D-11 |
| IC1010 | G-5 | Q514 | C-12 |
| IC1011 | E-5 | Q515 | C-13 |
| IC1012 | E-5 | Q701 | D-11 |
| IC1013 | D-4 | Q1002 | B-3 |
| IC1014 | E-5 | Q1003 | B-4 |
| IC1015 | D-5 | Q1004 | B-4 |
| IC1016 | F-7 | Q1005 | B-4 |
| IC1017 | G-7 | Q1006 | B-3 |
| IC1018 | I-6 | Q1007 | C-3 |
| IC1019 | H-7 | Q1008 | C-3 |
| IC1020 | H-7 | Q1009 | C-3 |
| IC1021 | H-7 | Q1010 | C-3 |
| IC1022 | H-9 | Q1011 | H-10 |
| IC1025 | G-8 | Q1012 | G-10 |
| IC1026 | H-9 | Q1013 | I-10 |
| IC1027 | G-9 | Q1014 | H-10 |
| IC1032 | G-8 | Q1015 | I-10 |
| IC1033 | F-4 | Q1016 | G-10 |
| IC1034 | F-4 | Q1017 | G-10 |
| IC1035 | F-3 | Q1018 | G-10 |

MAIN SECTION (3/4) •  : Uses unleaded solder. • See page 27 for Circuit Boards Location.

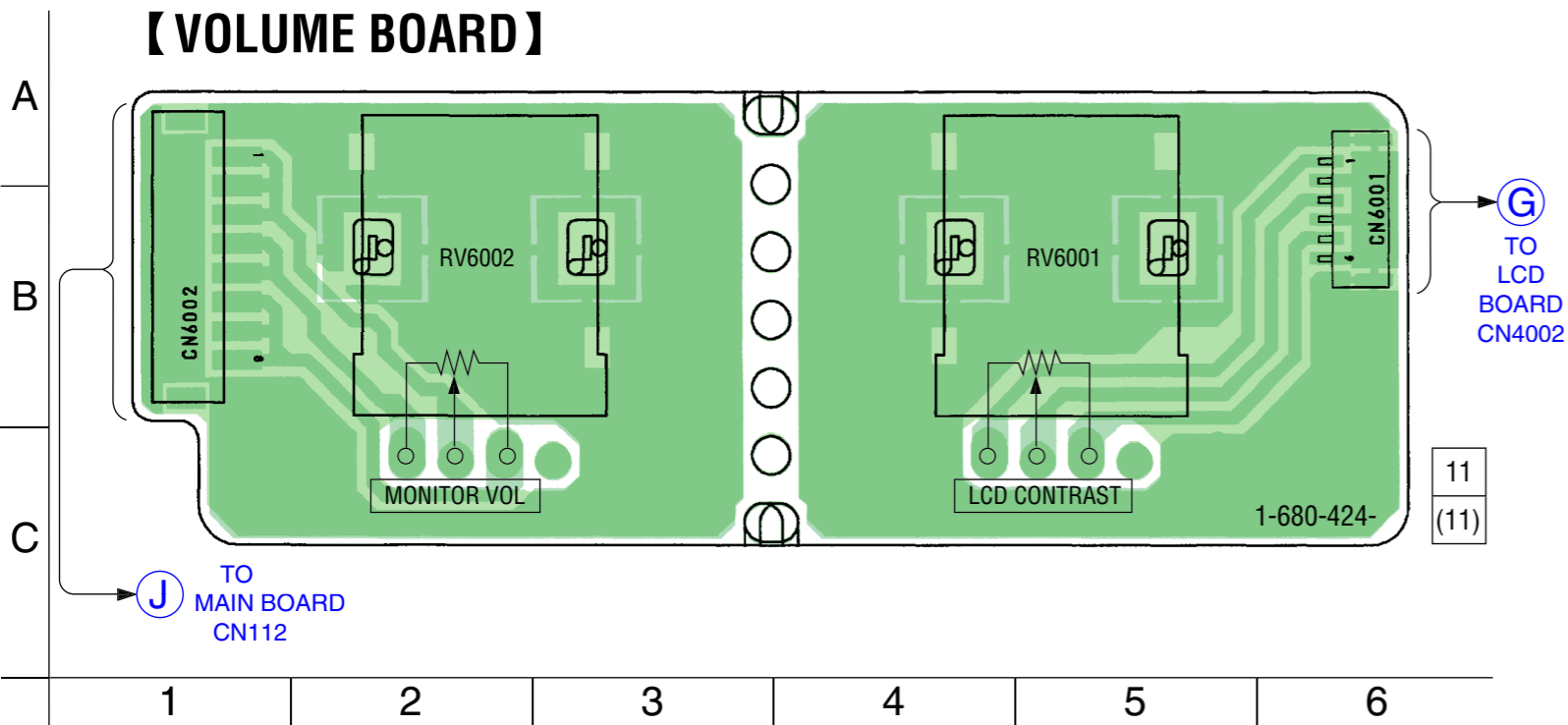
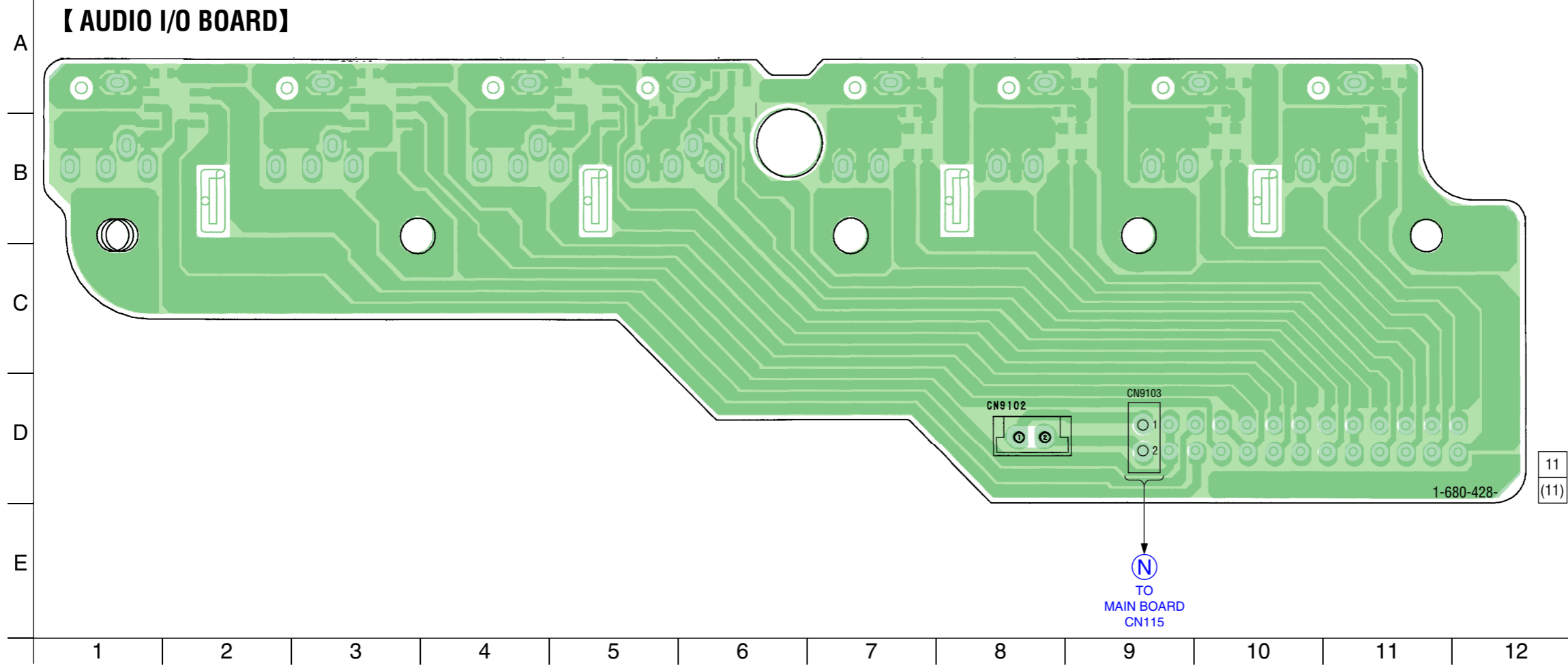


• Semiconductor Location

| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D501 | C-13 | IC1036 | F-3 |
| D701 | D-11 | IC1037 | E-3 |
| D702 | A-6 | IC1038 | F-3 |
| D703 | B-5 | IC1039 | F-3 |
| D704 | C-5 | IC1040 | F-3 |
| D1004 | C-4 | IC1042 | I-10 |
| D1005 | C-4 | IC1043 | I-11 |
| D1006 | H-3 | IC1046 | I-11 |
| D1007 | A-4 | IC1047 | I-11 |
| D1008 | B-3 | IC1048 | I-11 |
| | | IC1050 | H-10 |
| IC105 | D-9 | IC1051 | G-10 |
| IC106 | D-9 | IC1052 | H-12 |
| IC107 | F-12 | IC1055 | G-11 |
| IC305 | D-7 | IC1056 | G-11 |
| IC306 | C-9 | IC1057 | G-11 |
| IC307 | E-12 | IC1059 | H-10 |
| IC501 | D-11 | IC1060 | H-11 |
| IC505 | C-10 | IC1061 | H-11 |
| IC506 | B-11 | IC1062 | H-10 |
| IC507 | A-12 | IC1063 | B-2 |
| IC509 | D-12 | IC1064 | B-4 |
| IC701 | A-6 | IC1065 | D-3 |
| IC702 | C-5 | IC1067 | F-6 |
| IC703 | E-8 | IC1069 | F-8 |
| IC704 | D-12 | IC1070 | I-10 |
| IC705 | D-12 | IC1071 | D-4 |
| IC706 | D-11 | IC1072 | D-5 |
| IC1002 | C-3 | | |
| IC1003 | J-5 | Q502 | D-13 |
| IC1005 | H-6 | Q506 | D-12 |
| IC1006 | B-3 | Q507 | B-12 |
| IC1007 | H-5 | Q508 | C-11 |
| IC1008 | I-2 | Q509 | A-12 |
| IC1009 | H-3 | Q510 | D-11 |
| IC1010 | G-5 | Q514 | C-12 |
| IC1011 | E-5 | Q515 | C-13 |
| IC1012 | E-5 | Q701 | D-11 |
| IC1013 | D-4 | Q1002 | B-3 |
| IC1014 | E-5 | Q1003 | B-4 |
| IC1015 | D-5 | Q1004 | B-4 |
| IC1016 | F-7 | Q1005 | B-4 |
| IC1017 | G-7 | Q1006 | B-3 |
| IC1018 | I-6 | Q1007 | C-3 |
| IC1019 | H-7 | Q1008 | C-3 |
| IC1020 | H-7 | Q1009 | C-3 |
| IC1021 | H-7 | Q1010 | C-3 |
| IC1022 | H-9 | Q1011 | H-10 |
| IC1025 | G-8 | Q1012 | G-10 |
| IC1026 | H-9 | Q1013 | I-10 |
| IC1027 | G-9 | Q1014 | H-10 |
| IC1032 | G-8 | Q1015 | I-10 |
| IC1033 | F-4 | Q1016 | G-10 |
| IC1034 | F-4 | Q1017 | G-10 |
| IC1035 | F-3 | Q1018 | G-10 |



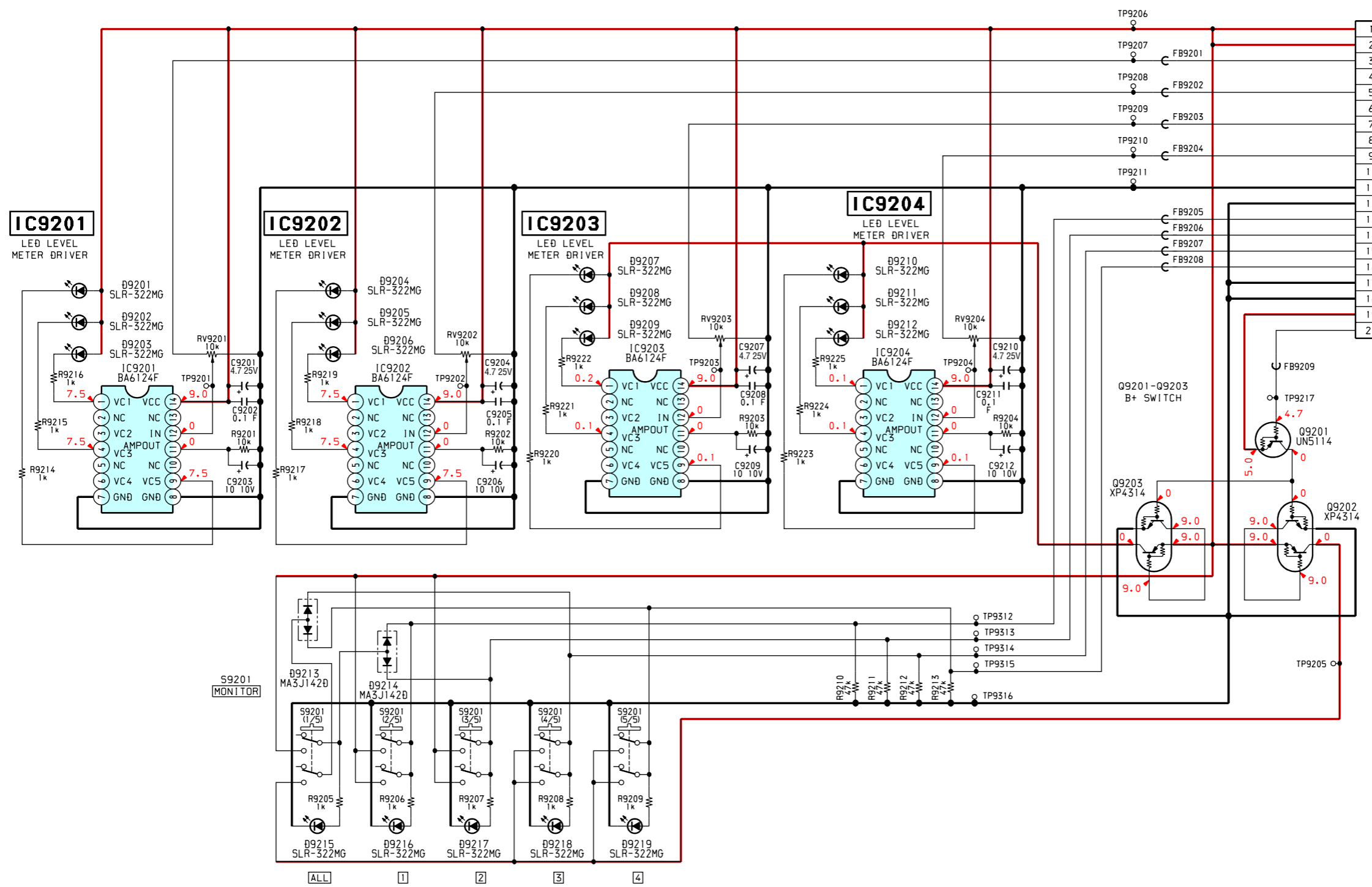
5-23. PRINTED WIRING BOARD AUDIO SECTION •  : Uses unleaded solder. • See page 27 for Circuit Boards Location.



1 2 3 4 5 6 7 8 9 10 11 12 13

A
B
C
D
E
F
G
H

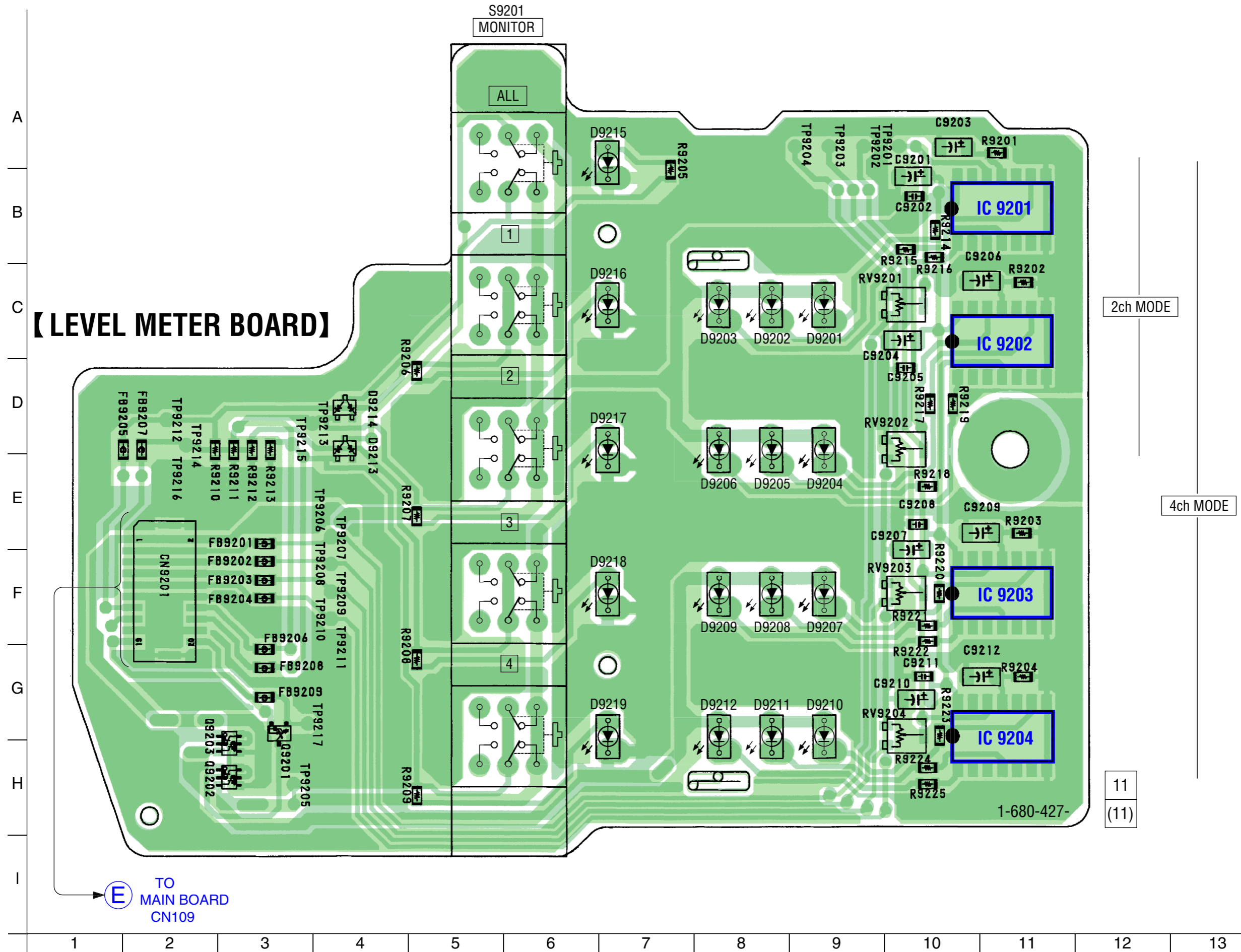
【 LEVEL METER BOARD 】



| CN9201 | |
|--------|----------|
| 1 | A9V |
| 2 | A9V |
| 3 | MON_LEV1 |
| 4 | MON_LEV1 |
| 5 | MON_LEV2 |
| 6 | MON_LEV2 |
| 7 | MON_LEV3 |
| 8 | MON_LEV3 |
| 9 | MON_LEV4 |
| 10 | MON_LEV4 |
| 11 | AGND |
| 12 | AGND |
| 13 | MON_SEL1 |
| 14 | MON_SEL2 |
| 15 | MON_SEL3 |
| 16 | MON_SEL4 |
| 17 | AGND |
| 18 | AGND |
| 19 | A5V |
| 20 | ZCH_X4CH |

E
TO MAIN BOARD (5/12)
CN109

5-25. PRINTED WIRING BOARD LEVEL METER SECTION •  : Uses unleaded solder. • See page 27 for Circuit Boards Location.



2ch MODE

4ch MODE

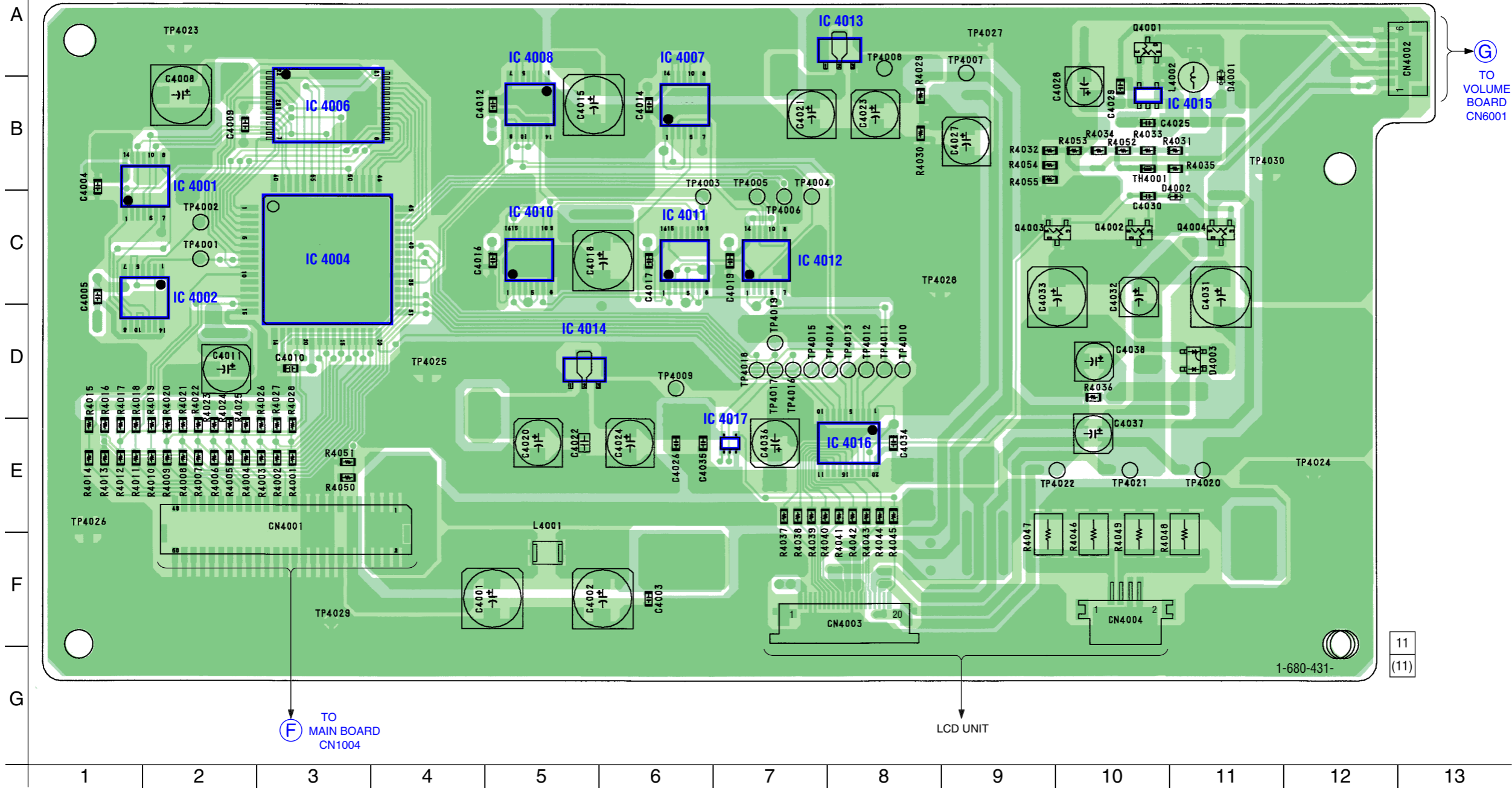
11
(11)

• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D9201 | C-9 |
| D9202 | C-8 |
| D9203 | C-8 |
| D9204 | D-9 |
| D9205 | D-8 |
| D9206 | D-8 |
| D9207 | F-9 |
| D9208 | F-8 |
| D9209 | F-8 |
| D9210 | G-9 |
| D9211 | G-8 |
| D9212 | G-8 |
| D9213 | D-4 |
| D9214 | D-4 |
| D9215 | A-7 |
| D9216 | C-7 |
| D9217 | D-7 |
| D9218 | F-7 |
| D9219 | G-7 |
| IC9201 | B-11 |
| IC9202 | C-11 |
| IC9203 | F-11 |
| IC9204 | G-11 |
| Q9201 | H-3 |
| Q9202 | H-2 |
| Q9203 | G-2 |

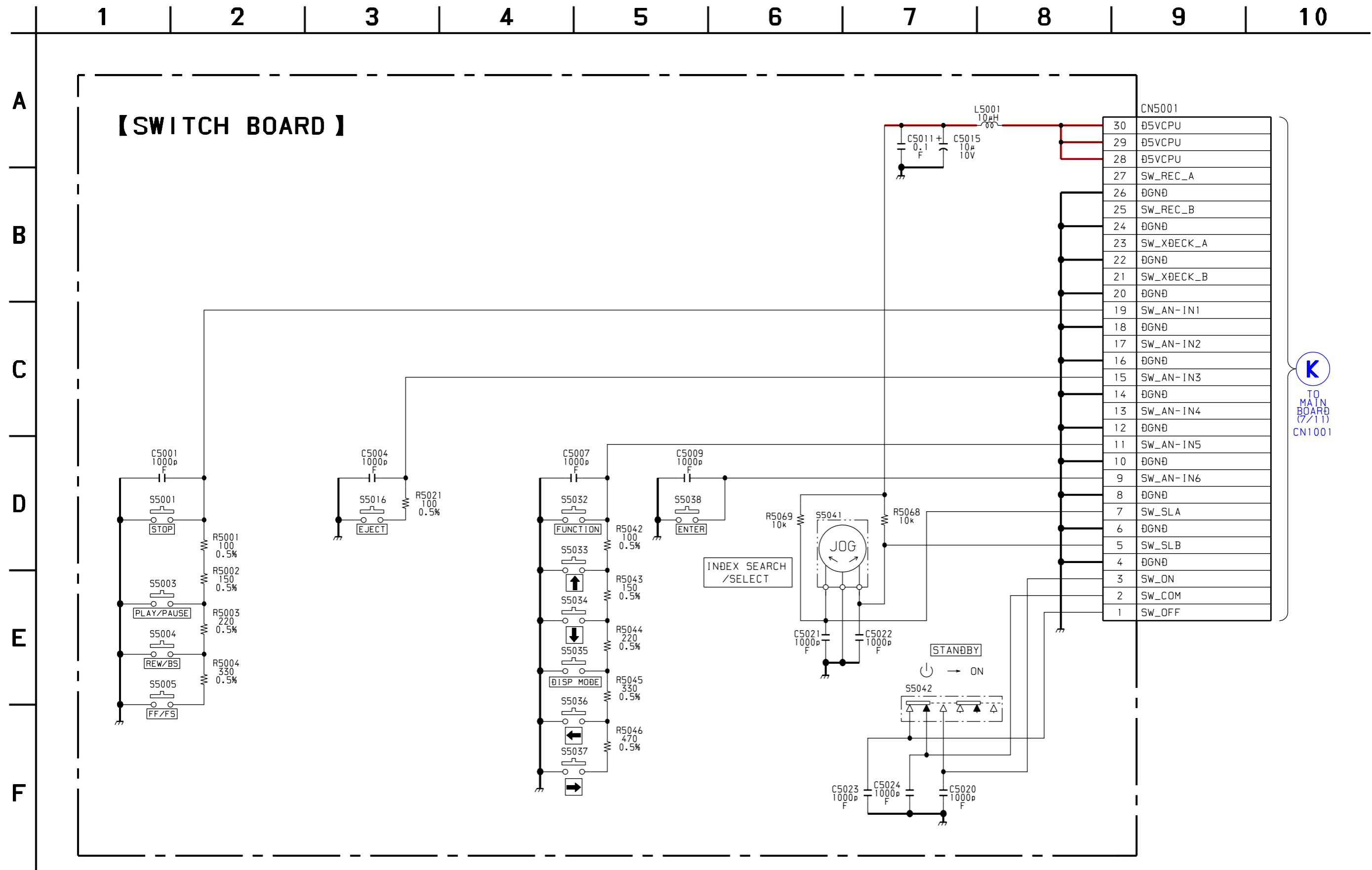
5-27. PRINTED WIRING BOARD LCD SECTION •  : Uses unleaded solder. • See page 27 for Circuit Boards Location.

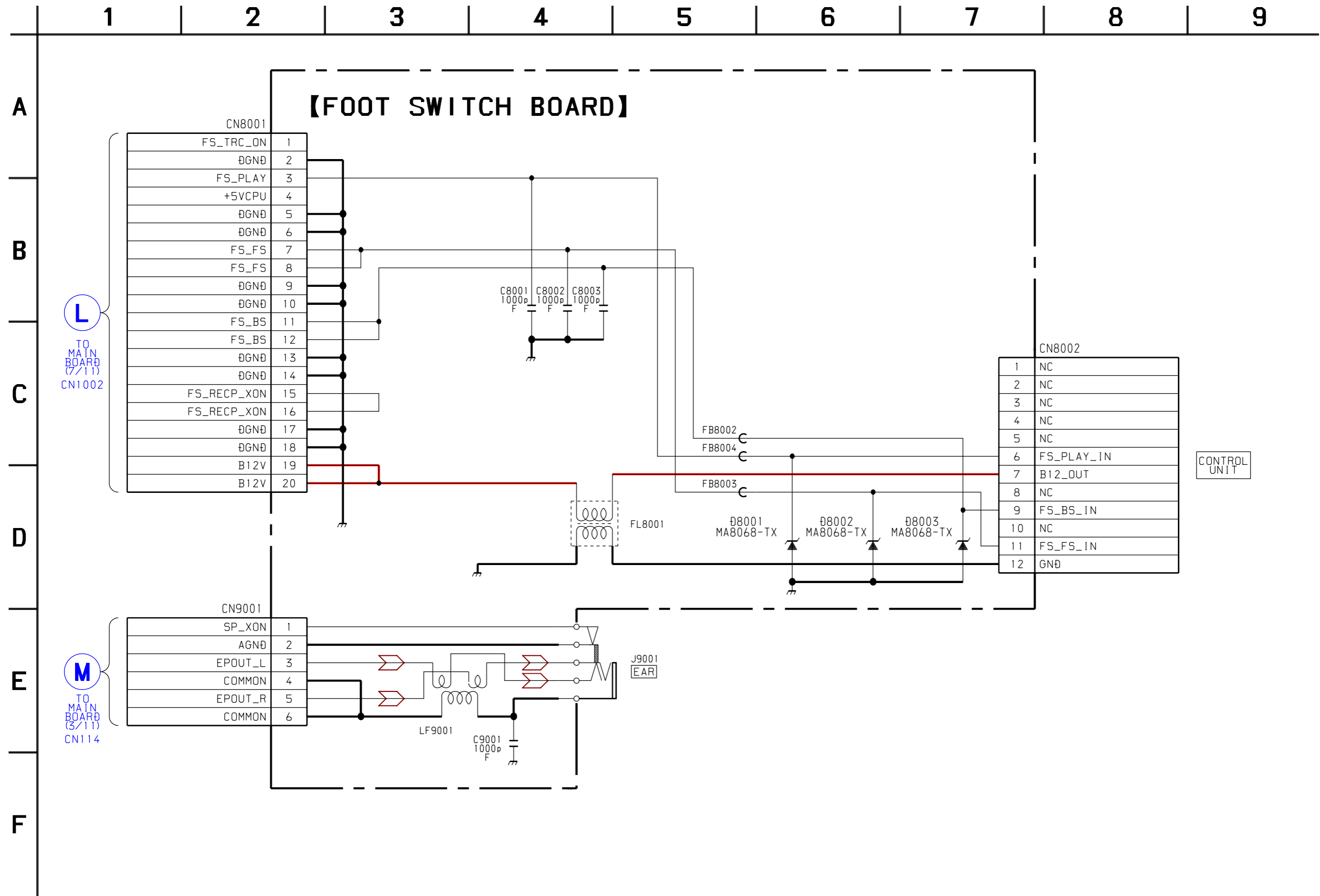
【LCD BOARD】



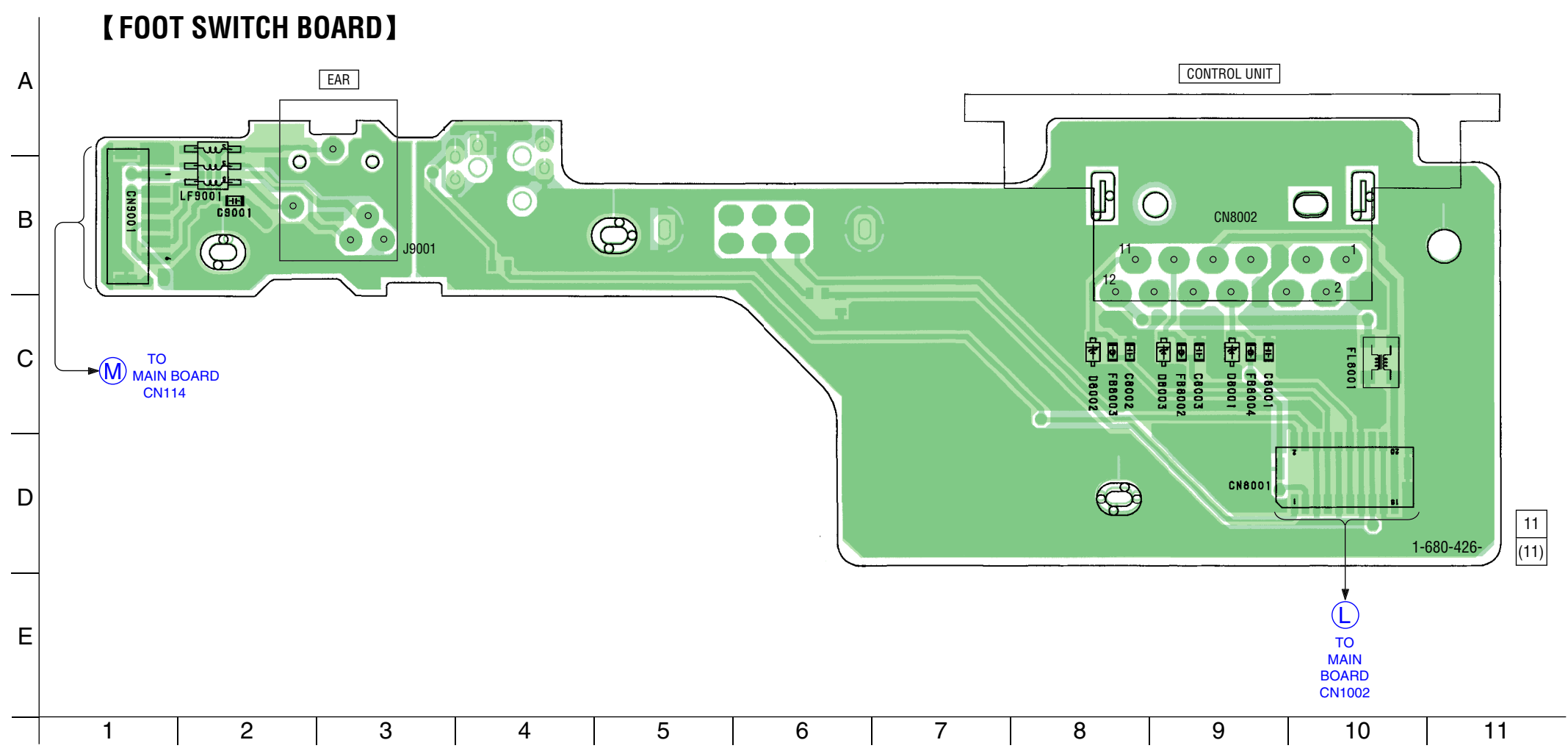
• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D4001 | A-11 |
| D4002 | B-11 |
| D4003 | D-11 |
| IC4001 | B-2 |
| IC4002 | C-2 |
| IC4004 | C-3 |
| IC4006 | B-3 |
| IC4007 | B-6 |
| IC4008 | A-5 |
| IC4010 | C-5 |
| IC4011 | C-6 |
| IC4012 | C-7 |
| IC4013 | A-7 |
| IC4014 | D-5 |
| IC4015 | B-11 |
| IC4016 | E-8 |
| IC4017 | D-7 |
| Q4001 | A-10 |
| Q4002 | B-10 |
| Q4003 | C-10 |
| Q4004 | B-11 |





5-31. PRINTED WIRING BOARD FOOT SWITCH SECTION •  : Uses unleaded solder. • See page 27 for Circuit Boards Location.



5-32. IC PIN FUNCTION DESCRIPTION

• IC1021 CXD8655Q (FIFO CONTROLLER) (MAIN BOARD)

| Pin No. | Pin Name | I/O | Description |
|---------|-----------|-----|---|
| 1 | INVIN | I | Input terminal of an inverter for a general purpose |
| 2 | INVOUT | O | Output terminal of an inverter for a general purpose (open) |
| 3 | FS64 | O | Divider output (1/4) of 256fs |
| 4 | FS01 | O | Divider output (1/256) of 256fs |
| 5 | ACLK | O | Clock output (128fs) for data communications with ATRAC CODEC |
| 6 | FFCLK | I | Not used (connected to ground) |
| 7 | FFOUT | O | Not used (open) |
| 8 | BFIN | I | Input terminal of a buffer for a general purpose (64fs) |
| 9 | BFOUT | O | Output terminal of a buffer for a general purpose (64fs) |
| 10 - 14 | TEST00-04 | I | Not used (connected to ground) |
| 15 | VSS | — | Ground |
| 16 | VDD | — | Power supply (+5V) |
| 17 - 20 | TEST05-08 | I | Not used (connected to ground) |
| 21 - 22 | TEST10-11 | O | Not used (open) |
| 23 - 30 | I/O0-7 | I/O | Data bus |
| 31 | VDD | — | Power supply (+5V) |
| 32 - 33 | TEST12-13 | O | Not used (open) |
| 34 | CS | I | Chip select signal input |
| 35 - 38 | A4-1 | I | Address bus from the CPU |
| 39 | VSS | — | Ground |
| 40 | VDD | — | Power supply (+5V) |
| 41 | A0 | I | Address bus from the CPU |
| 42 | XINT | O | Not used |
| 43 | XRD | I | Read signal input from the CPU |
| 44 | XWR | I | Write signal input from the CPU |
| 45 | XRST | I | Reset signal input from the CPU |
| 46 | CPUSCK | I | System clock input from the CPU (16MHz) |
| 47 | XWRFB | O | Write signal output for the FIFO (PLAY 3/4ch) |
| 48 | FIB0 | I/O | Input/output terminal of data communications with the FIFO (3/4ch) |
| 49 | XRDF1 | O | Read signal output for the FIFO (PLAY 3/4ch) |
| 50 | F863 | I | Not used (connected to ground) |
| 51 | AC21 | O | Not used (open) |
| 52 | XLAT1 | O | Latch signal output for transferring serial data (ADTO1) to the ATRAC CODEC (3/4ch) during PLAY operation |
| 53 | ADTO1 | O | Serial data output to the ATRAC decoder (3/4ch) |
| 54 | MLTC | I | Input terminal for multi-chip setting (connected to ground for single-chip setting) |
| 55 | DO12 | I | Input terminal of 1/2ch digital audio data |
| 56 | F860 | I | Not used (connected to ground) |
| 57 | XRQ2 | I | Request signal input to receive serial data from the ATRAC encoder during REC operation |
| 58 | ADTI2 | I | Serial data input from the ATRAC encoder (1/2ch) |
| 59 | XLAT2 | O | Strobe signal output for receiving serial data (ADTI2) from the ATRAC CODEC (1/2ch) during REC operation |
| 60 | F862 | I | Not used (connected to ground) |
| 61 | AC20 | O | Not used (open) |
| 62 | XLAT0 | O | Latch signal output for transferring serial data (ADTO0) to the ATRAC CODEC (1/2ch) during PLAY operation |
| 63 | ADTO0 | O | Serial data output to the ATRAC decoder (1/2ch) |
| 64 | XRQ0 | I | Request signal input to send serial data from the ATRAC decoder (1/2ch) during PLAY operation |
| 65 | 256FS | I | Clock input (256fs) |
| 66 | VSS | — | Ground |
| 67 | VDD | — | Power supply (+5V) |
| 68 | F861 | I | Not used (connected to ground) |
| 69 | DO34 | I | Input terminal of 3/4ch digital audio data |

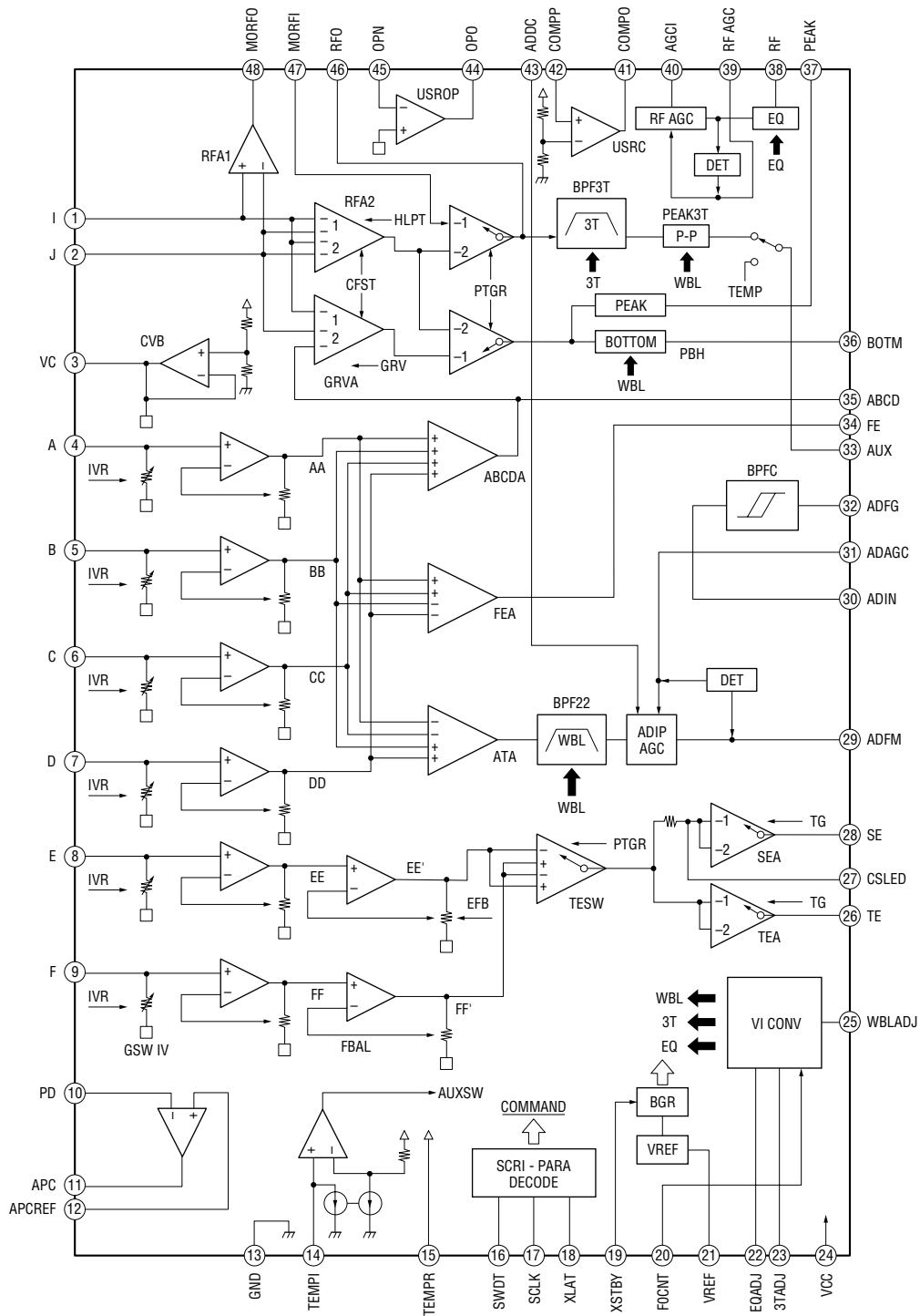
| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|--|
| 70 - 76 | FIB1-7 | I/O | Input/output terminal of data communications with the FIFO (3/4ch) |
| 77 | XWRF3 | O | Write signal output for the FIFO (REC 3/4ch) |
| 78 | XRDFB | O | Read signal output for the FIFO (REC 3/4ch) |
| 79 | XWRFA | O | Write signal output for the FIFO (PLAY 1/2ch) |
| 80 | XRDF0 | O | Read signal output for the FIFO (PLAY 1/2ch) |
| 81 - 88 | FIA0-7 | I/O | Input/output terminal of data communications with the FIFO (1/2ch) |
| 89 | XWRF2 | O | Write signal output for the FIFO (REC 1/2ch) |
| 90 | VSS | — | Ground |
| 91 | VDD | — | Power supply (+5V) |
| 92 | XRDF A | O | Read signal output for the FIFO (REC 1/2ch) |
| 93 | XLAT3 | O | Strobe signal output for receiving serial data (ADTI3) from the ATRAC CODEC (3/4ch) during REC operation |
| 94 | ADTI3 | I | Serial data input from the ATRAC encoder (3/4ch) |
| 95 | XRQ3 | I | Request signal input to receive serial data from the ATRAC encoder (3/4ch) during REC operation |
| 96 | XRQ1 | I | Request signal input to send serial data from the ATRAC decoder (3/4ch) during PLAY operation |
| 97 | BCK | I | BCK signal input (FS64) |
| 98 | LRCK | I | LRCK signal input (FS01) |
| 99 | VSS | — | Ground |
| 100 | NC | — | Not used |

• IC1007 HD6413003TF16 (CPU) (MAIN BOARD)

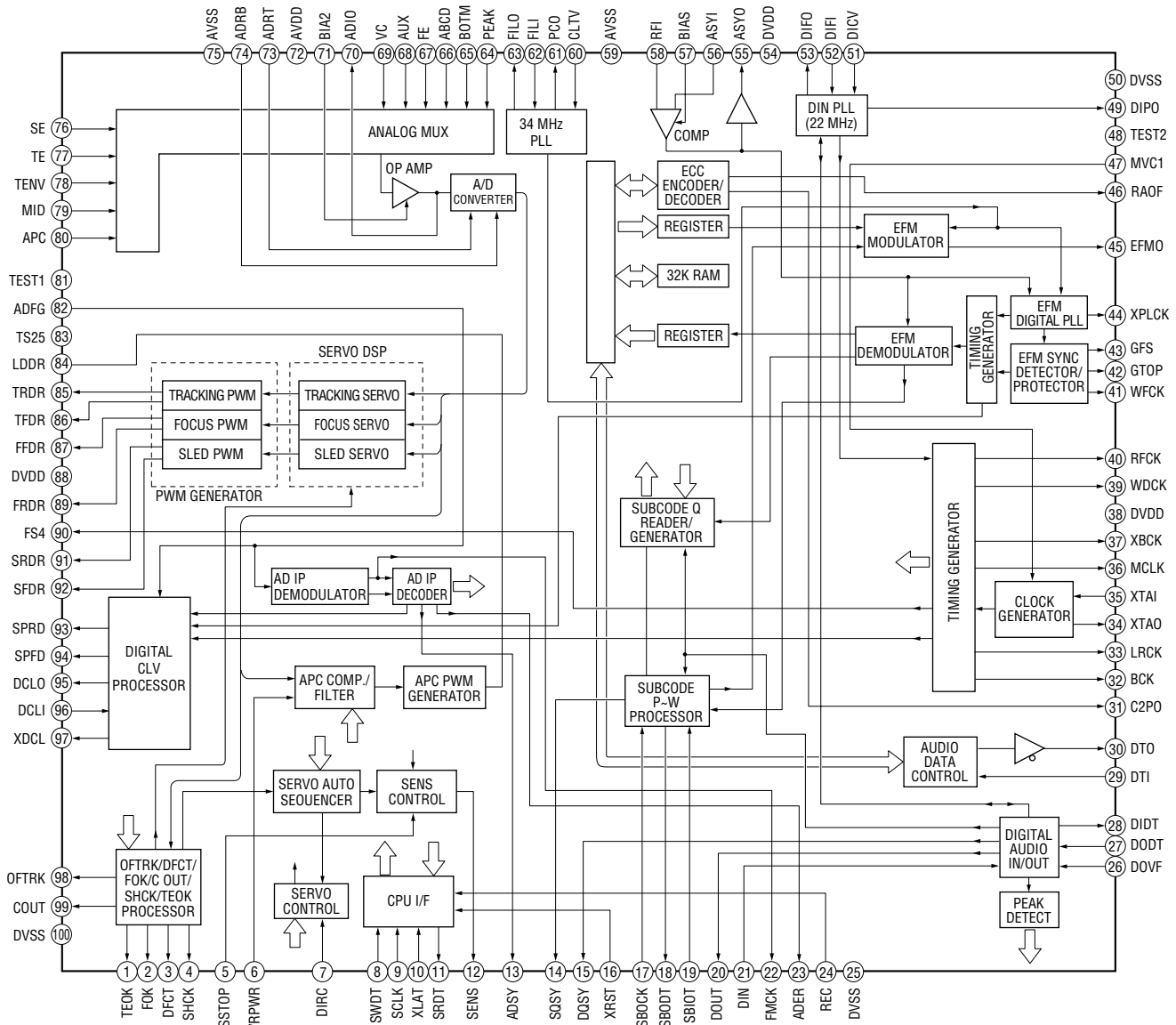
| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|---|
| 1 | VCC | — | Power supply (+5V) |
| 2 - 3 | PB0-1 | I | Data signal input from the jog dial |
| 4 | PB2 | I | Transcriber DeckXA/B selection signal input |
| 5 | PB3 | I | Search mode INDEX/XTIME selection signal input |
| 6 | PB4 | I | Standby signal input from the STANDBY switch (L=STANDBY) |
| 7 | PB5 | O | Power control signal output after power off sequence |
| 8 | XDREQ0 | I | CH0 DMA request signal input |
| 9 | XDREQ1 | I | CH1 DMA request signal input |
| 10 | VSS | — | Ground |
| 11 | PC0 | O | DECK-A REC LED control signal output (H=ON,L=OFF) |
| 12 | PC1 | O | DECK-B REC LED control signal output (H=ON,L=OFF) |
| 13 | XCS4 | O | Chip select signal output for area 4 (LCD controller) |
| 14 | PC3 | — | Not used |
| 15 | XCS6 | O | Chip select signal output for area 6 (MD controller) |
| 16 | XCS7 | O | Chip select signal output for area 7 (FIFO controller) |
| 17 | KEY-INT | I | Interrupt request 6 signal input from the MD controller |
| 18 | FINT12 | I | Interrupt request 7 signal input from the ATRAC CODEC 1/2ch |
| 19 | RES0 | O | Not used |
| 20 | TXD0 | O | Serial communication interface data signal output |
| 21 | TXD1 | O | LED control signal output (DECK-A) |
| 22 | RXD0 | I | Serial communication interface data signal input |
| 23 | RXD1 | O | LED control signal output (DECK-B) |
| 24 | SCK0 | — | Not used |
| 25 | SCK1 | — | Not used |
| 26 | VSS | — | Ground |
| 27 - 34 | D0-7 | I/O | Data bus |
| 35 | VSS | — | Ground |
| 36 - 43 | D8-15 | I/O | Data bus |
| 44 | VCC | — | Power supply (+5V) |
| 45 - 52 | A0-7 | O | Address bus |
| 53 | VSS | — | Ground |
| 54 - 65 | A8-19 | O | Address bus |
| 66 | (XWDRES) | I | Not used (pull up) |
| 67 | XRES1 | O | ATRAC CODEC reset signal output |
| 68 | XRES-AD | O | AD/DA converter reset signal output |
| 69 | PHAI | O | System clock output (16MHz) |
| 70 | XSTBY | I | Not used (connected to +5V) |
| 71 | XRES | I | Reset signal input (L=reset) |
| 72 | NMI | I | Nonmaskable interrupt signal input |
| 73 | VSS | — | Ground |
| 74 | EXTAL | I | Input for connection to a crystal resonator |
| 75 | XTAL | I | Input for connection to a crystal resonator |
| 76 | VCC | — | Power supply (+5V) |
| 77 | XAS | O | Not used |
| 78 | XRD | O | Read signal output |
| 79 | XHWR | O | Write data signal output on the upper data bus |
| 80 | XLWR | O | Write data signal output on the lower data bus |
| 81 | MD0 | I | Operating mode control input (ground) |
| 82 | MD1 | I | Operating mode control input (ground) |
| 83 | MD2 | I | Operating mode control input (+5V) |

| Pin No. | Pin Name | I/O | Description |
|---------|--------------|-----|---|
| 84 | AVCC | — | Power supply input for the A/D converter |
| 85 | VREF | — | Reference voltage input for the A/D converter |
| 86 | KEY-IN | I | Analog signal input |
| 87 - 93 | AN-IN1-7 | I | Analog signal input |
| 94 | AVSS | — | Ground for the A/D converter |
| 95 | A20 | O | Address bus |
| 96 -98 | A21-23 | O | Address bus (not used) |
| 99 | VSS | — | Ground |
| 100 | IRQ0 | I | Interrupt request 0 signal input from the MD controller |
| 101 | XCS3 | O | Chip select signal output for area 3 (DRAM) |
| 102 | FINT34 | I | Interrupt request 2 signal input from the ATRAC CODEC 3/4ch |
| 103 | XCS1 | O | Chip select signal output for area 1 (SRAM) |
| 104 | XCS0 | O | Chip select signal output for area 0 (PROM) |
| 105 | PA0 | — | Not used |
| 106 | PA1 | — | Not used |
| 107 | PA2(NV_SCLK) | O | Serial clock output for the NVRAM and RTC |
| 108 | PA3(NV_DIO) | I/O | Serial data bus for the NVRAM and RTC |
| 109 | PA4(XRESL) | O | Control signal output for the LCD horizontal line |
| 110 | PA5(NV_CS) | O | Chip select signal output for the NVRAM |
| 111 | PA6(1809RST) | O | Reset signal output for the MD controller |
| 112 | PA7(RTC_CS) | O | Chip select signal output for the RTC |

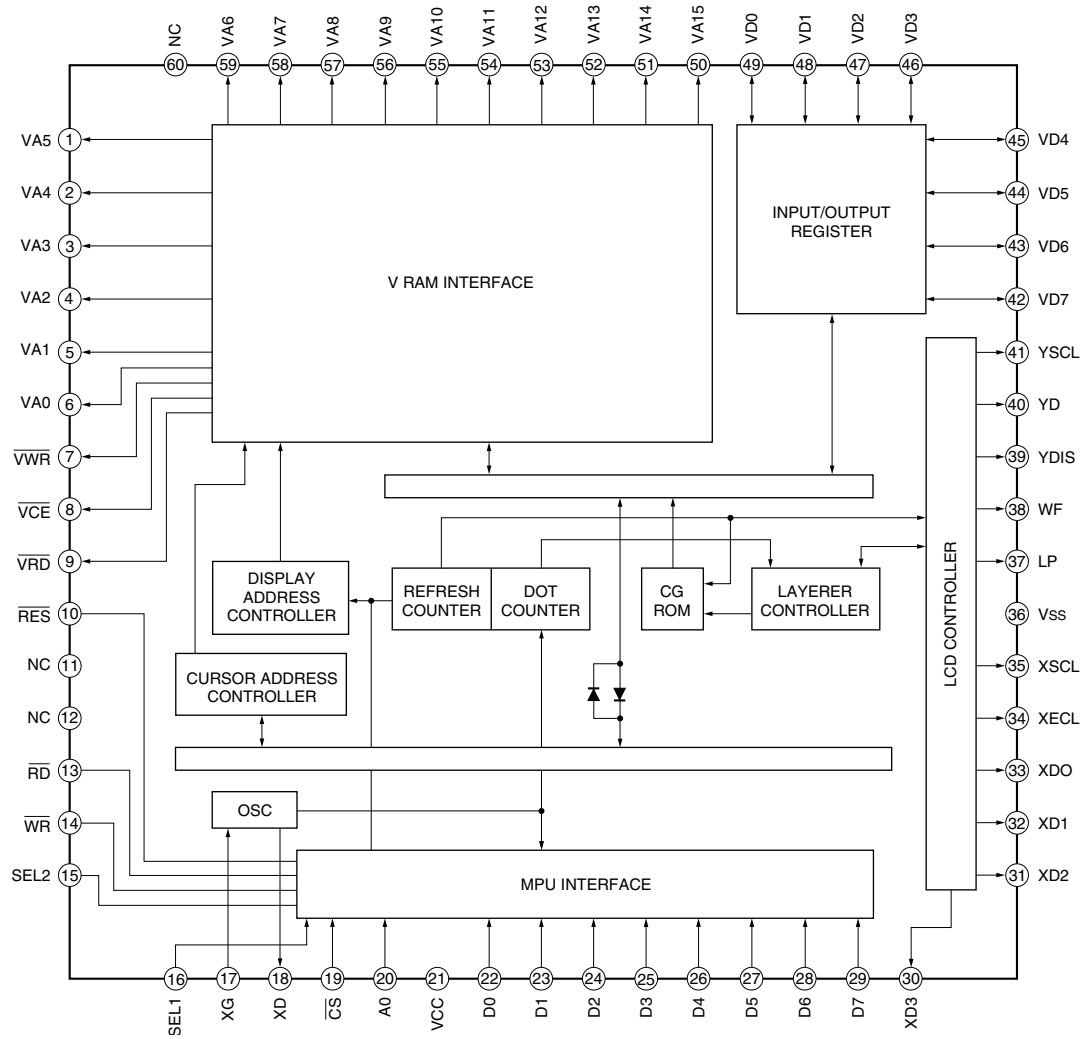
5-37. IC BLOCK DIAGRAMS
 IC21 CXA2523R-T4 (MD BOARD)



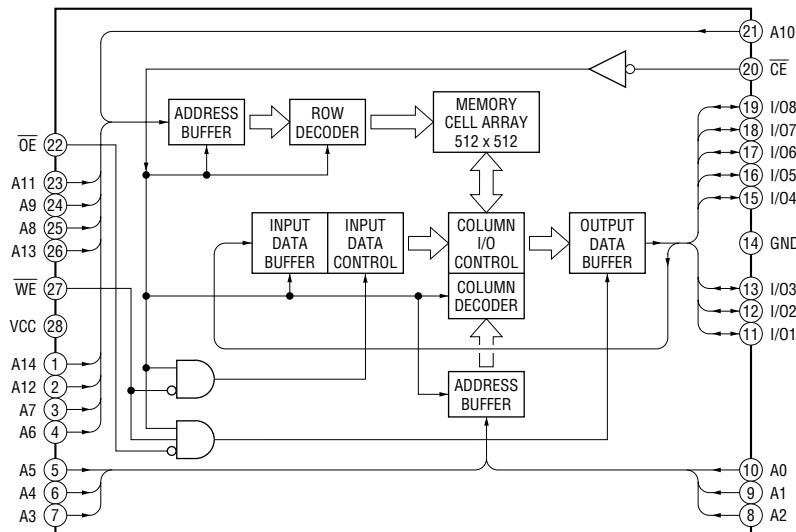
IC38 CXD2535CR-1 (MD BOARD)



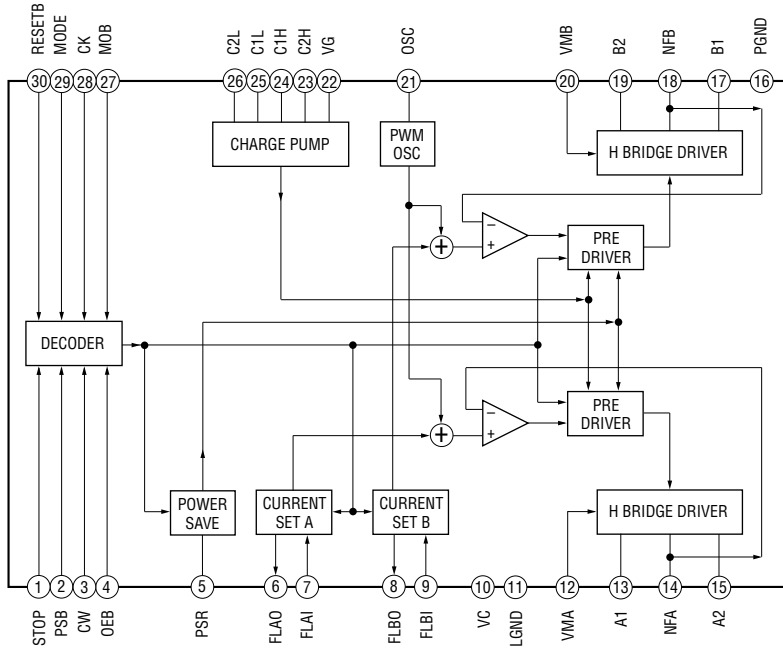
IC4004 SED1335FOB (LCD BOARD)



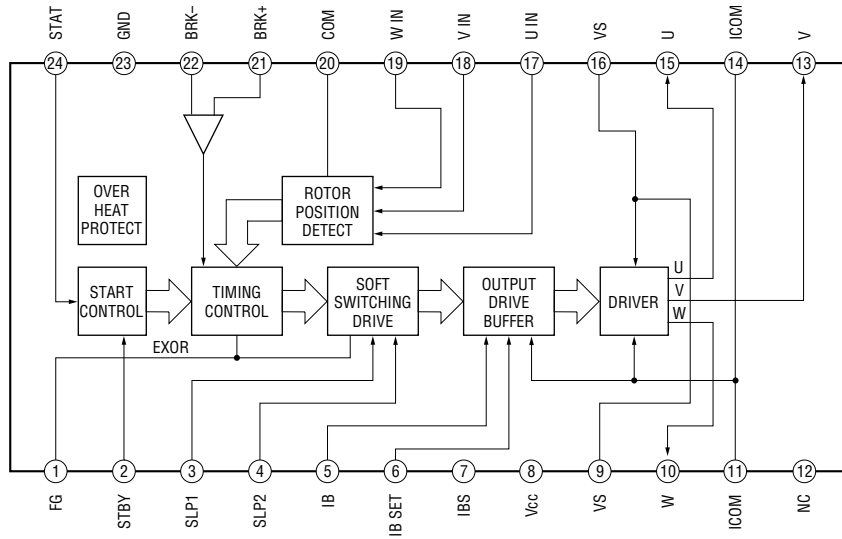
IC4006 LC35256FT-70U (LCD BOARD)



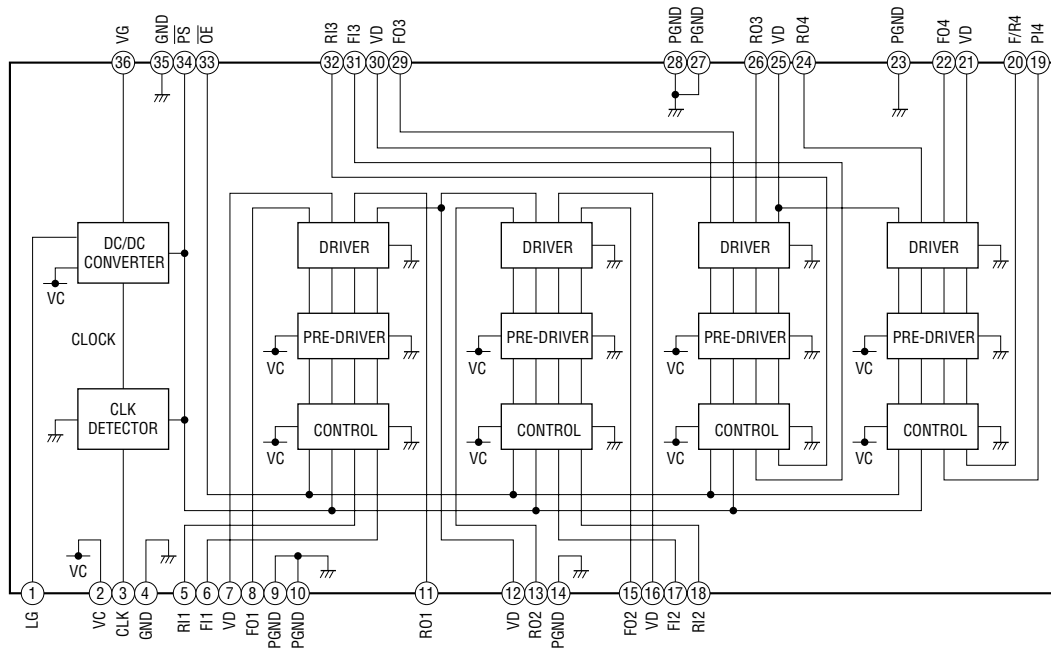
IC301 MPC17A85ZVMEL (BUM-F1 BOARD)



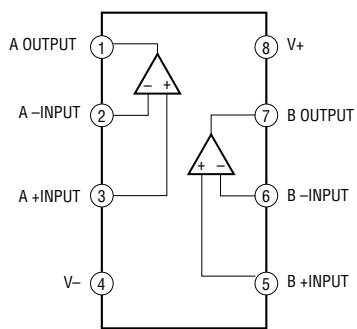
IC302 CXA8027N-ELL2000 (BUM-F1 BOARD)



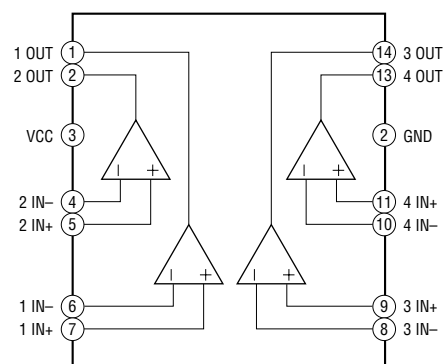
IC37 MPC17A38ZVMEL (MD BOARD)



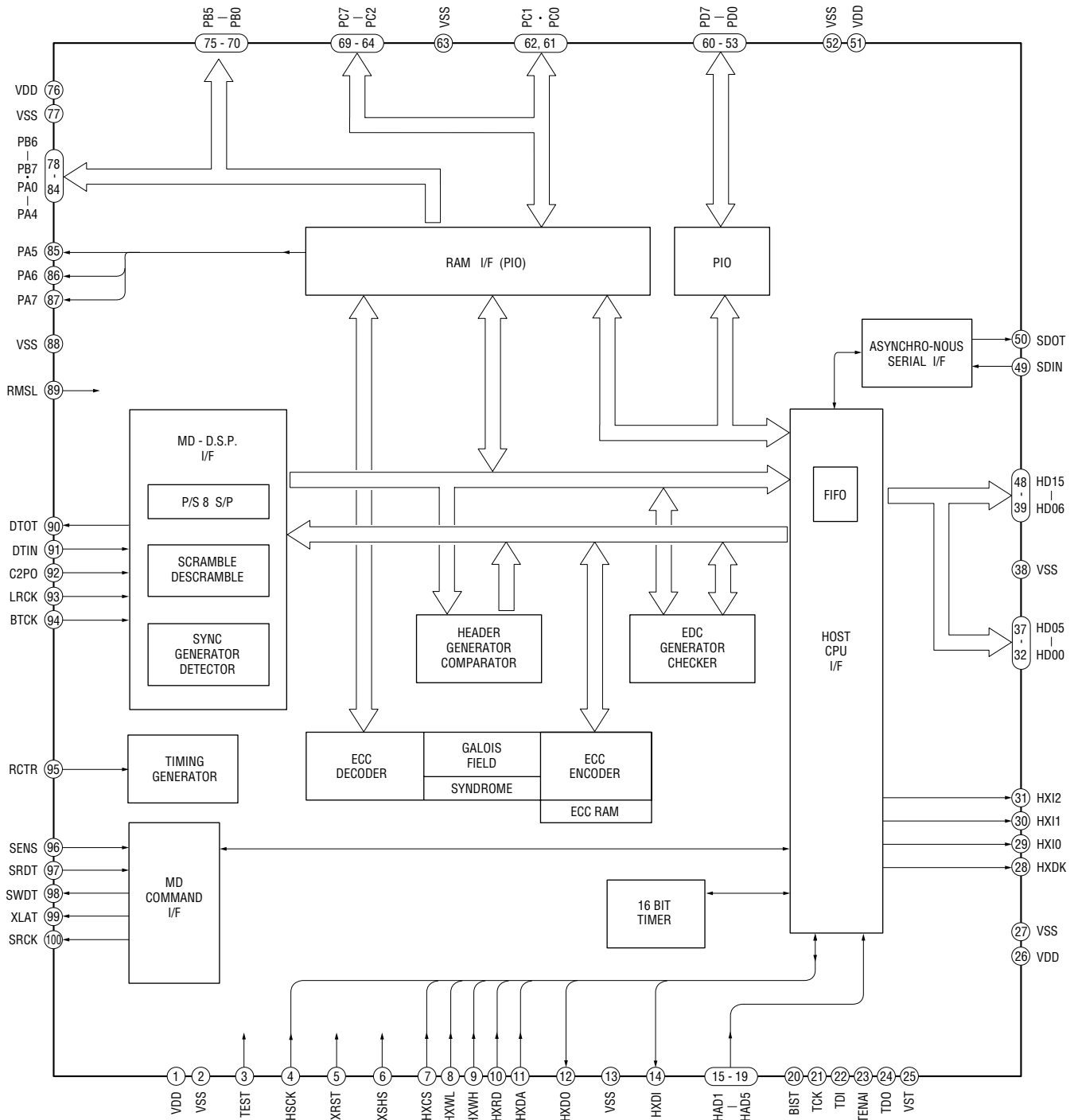
**IC9,IC10,IC22,IC23,IC26 NJM2100V-TE2 (MD BOARD)
IC509 NJU7082BV(Te2) (MAIN BOARD)**



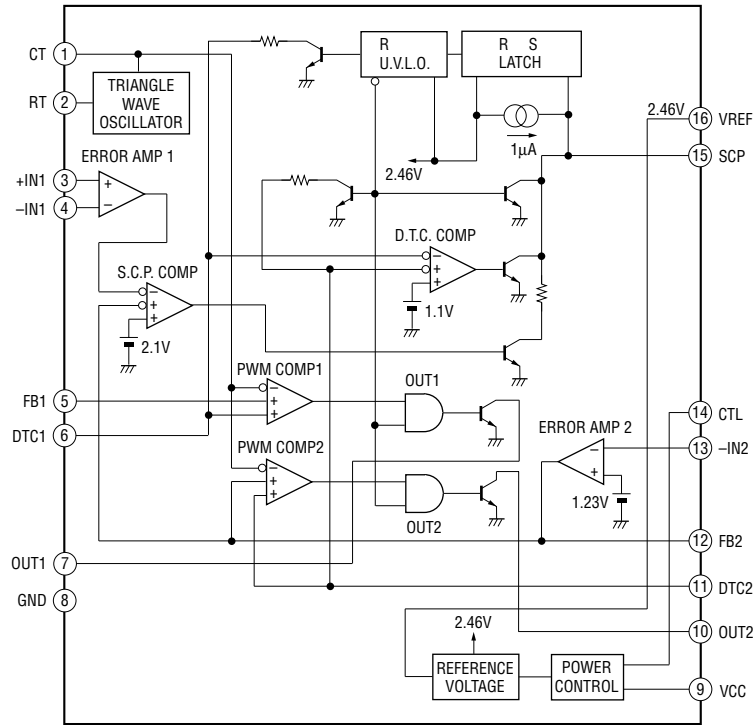
IC34 LM339PW-ELL2000 (MD BOARD)



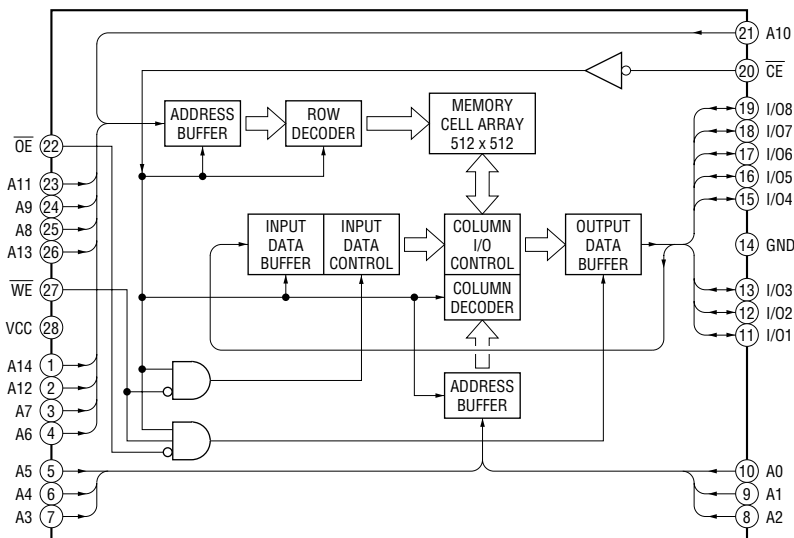
IC1033 CXD1809R (MAIN BOARD)



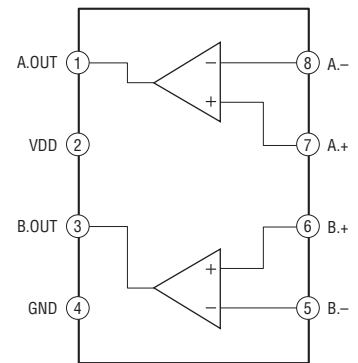
IC1064 MB3778PFV-EF (MAIN BOARD)



IC1016,IC1067 LC35256FT-70U (MAIN BOARD)



IC507 NJM2073D (MAIN BOARD)



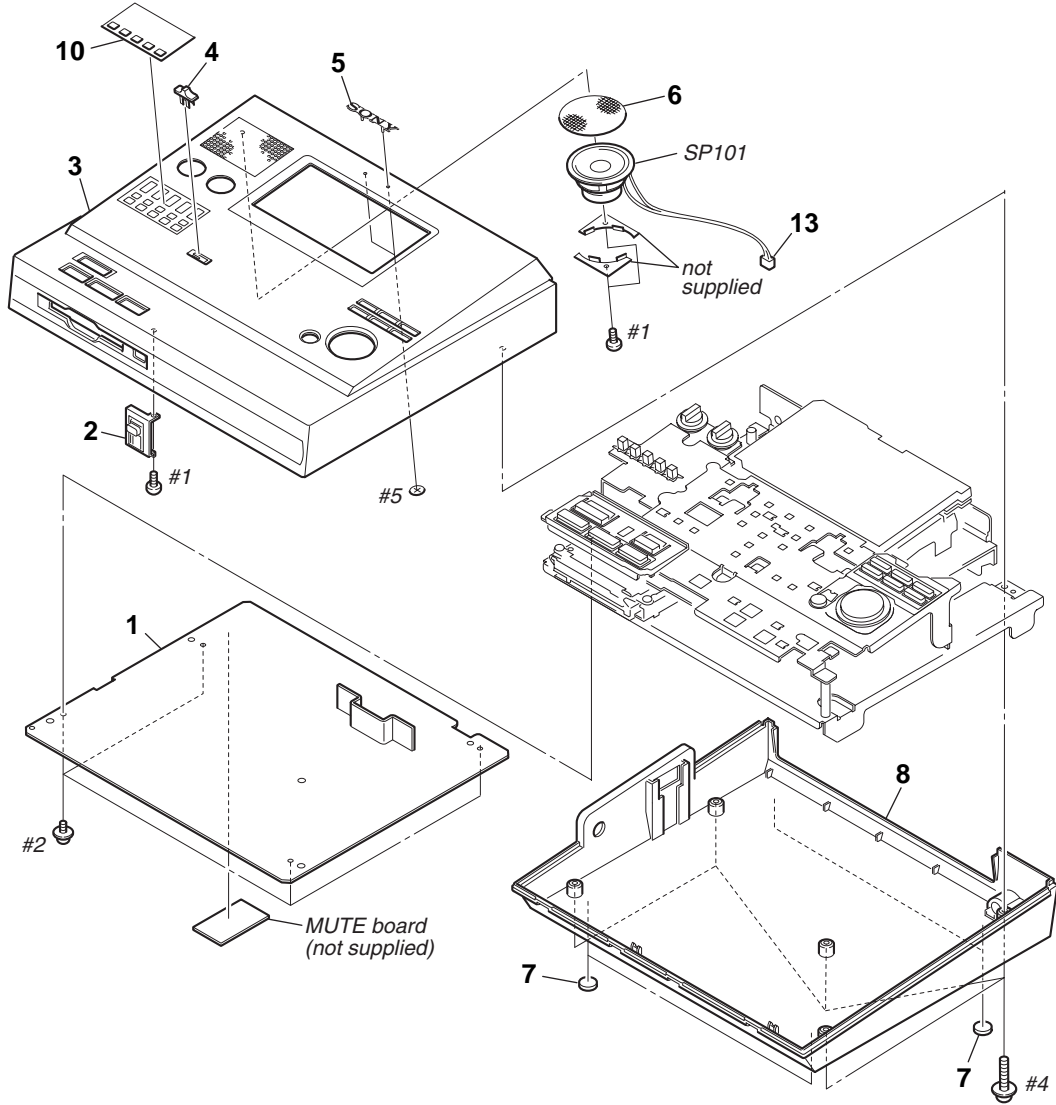
SECTION 6
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

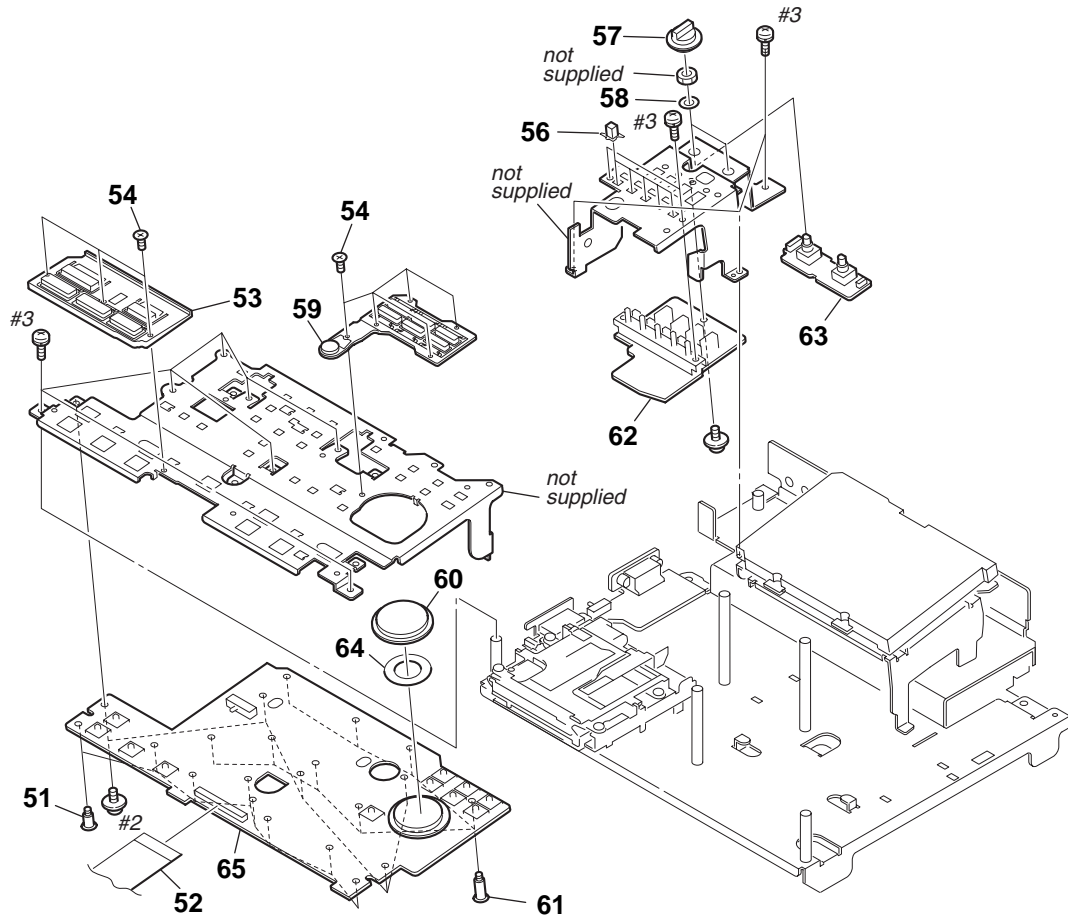
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

6-1. CABINET SECTION



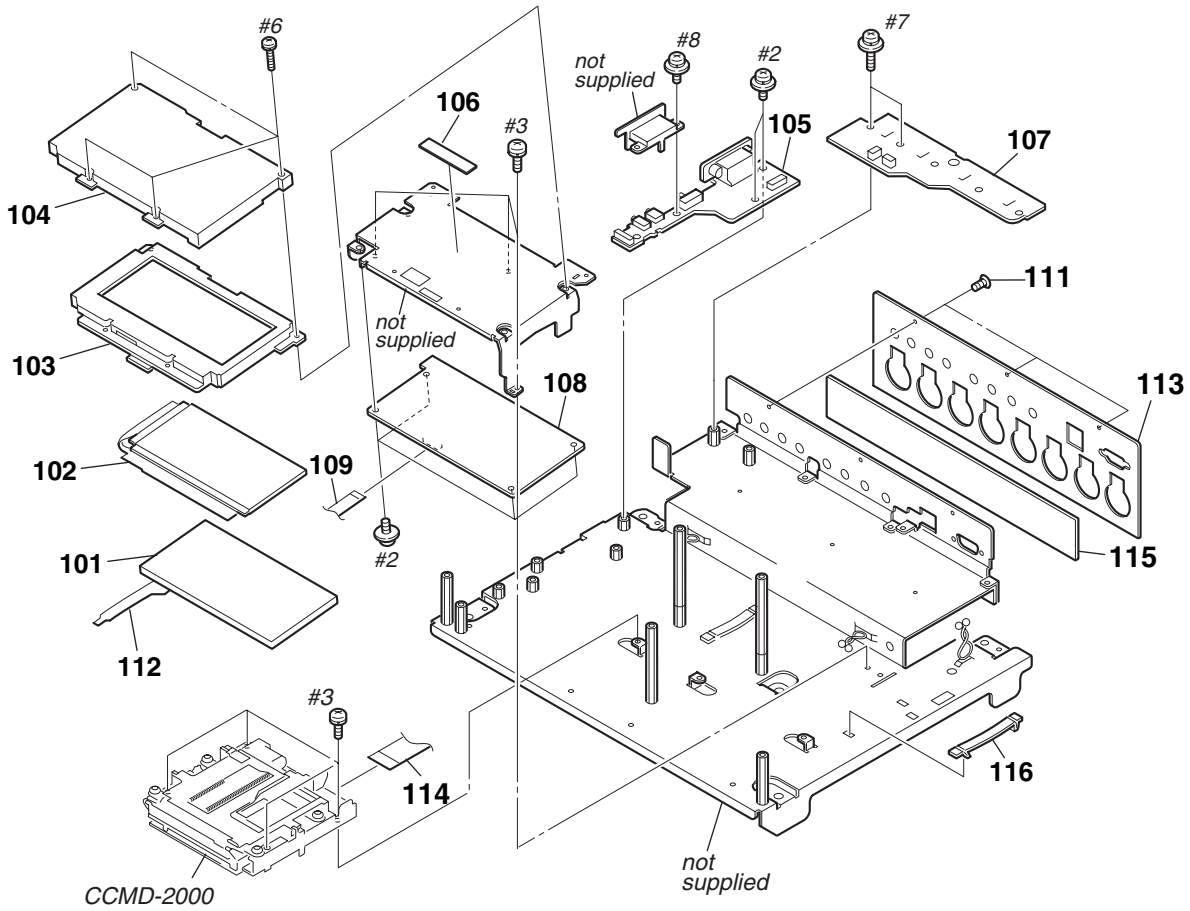
| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|----------------------|---------|----------|--------------|-------------------------------|---------|
| * 1 | A-3021-406-A | MAIN BOARD, COMPLETE | | 7 | 3-343-250-01 | CUSHION | |
| 2 | 3-225-516-01 | BUTTON (EJECT) | | 8 | 3-225-520-11 | CABINET (LOWER) | |
| 3 | X-3380-502-1 | CABINET (UPPER) ASSY | | 10 | 3-225-508-01 | PLATE, TRANSPARENT | |
| 4 | 3-225-517-01 | KNOB (PA) | | * 13 | 1-562-504-11 | CONNECTOR, MICRO (HOUSING) 2P | |
| 5 | 3-718-322-02 | EMBLEM, SONY | | SP101 | 1-504-888-12 | SPEAKER (5.0cm) | |
| 6 | 3-225-543-01 | NET, SPEAKER | | | | | |

6-2. KEY SECTION



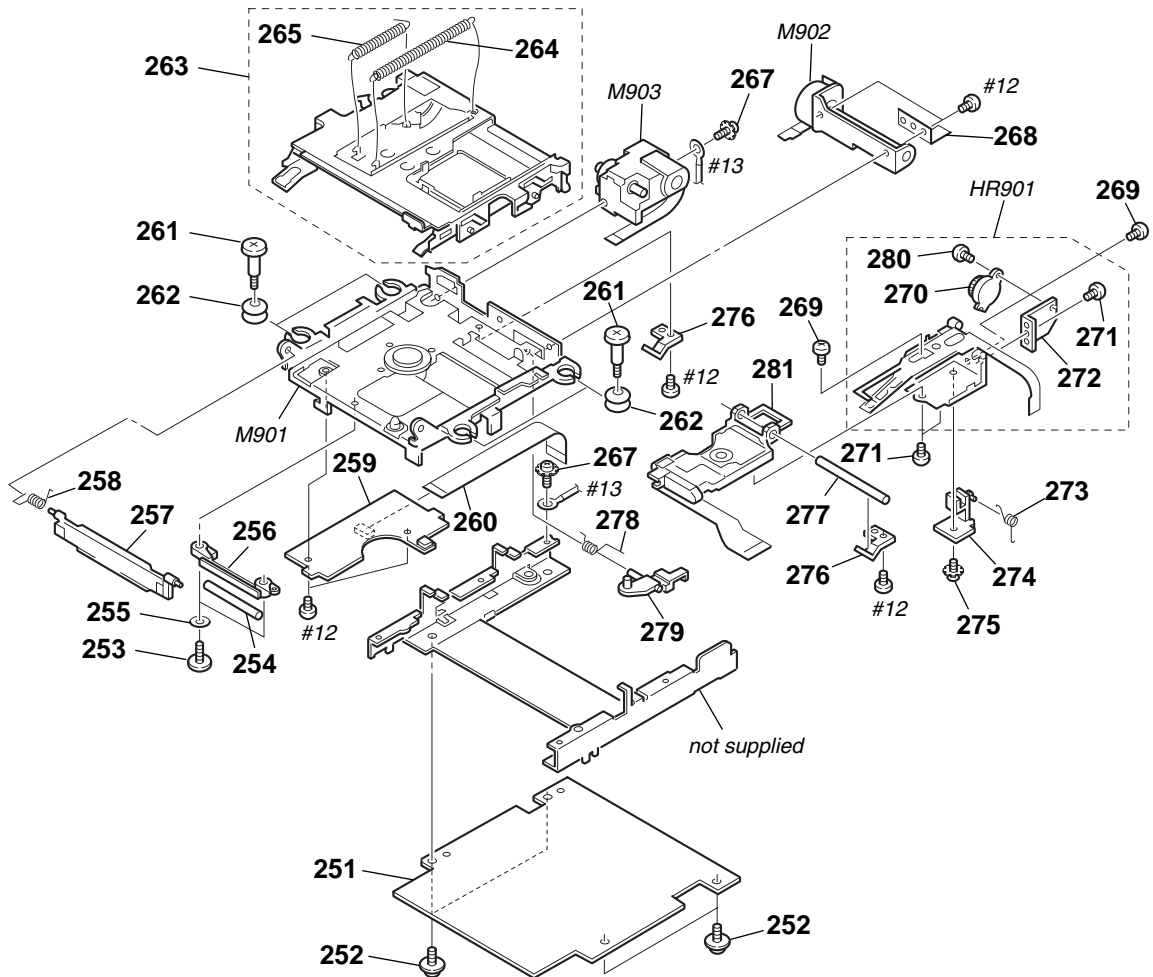
| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|-----------------------------|---------|----------|--------------|-------------------|---------|
| 51 | 3-231-088-01 | SCREW (M2), STEP | | 59 | 3-225-515-11 | BUTTON (FUNCTION) | |
| * 52 | 1-757-620-11 | CABLE, FLEXIBLE FLAT (90mm) | | 60 | 3-225-528-01 | KNOB (ENCODER) | |
| 53 | 3-225-512-11 | BUTTON (MD) | | 61 | 3-231-088-11 | SCREW (M2), STEP | |
| 54 | 3-724-455-41 | SCREW | | * 62 | 1-680-427-11 | LEVEL METER BOARD | |
| 56 | 3-225-531-01 | BUTTON (5 GANG) | | * 63 | 1-680-424-11 | VOLUME BOARD | |
| 57 | 3-225-532-01 | KNOB (VOL) | | 64 | 3-233-394-01 | SPACER (ENCODER) | |
| 58 | 3-231-950-01 | SPACER (CABINET UPPER) | | * 65 | 1-680-432-11 | SWITCH BOARD | |

6-3. LCD SECTION



| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|-------------------------------|---------|----------|--------------|------------------------------|---------|
| 101 | 1-476-469-11 | LIGHT UNIT, BACK | | 109 | 1-757-623-11 | CABLE, FLEXIBLE FLAT (70mm) | |
| 102 | 1-803-019-11 | DISPLAY PANEL, LIQUID CRYSTAL | | 111 | 3-724-455-41 | SCREW | |
| 103 | 3-225-537-01 | HOLDER (LCD) | | 112 | 1-680-433-11 | B-LIGHT FLEXIBLE BOARD | |
| 104 | 3-225-507-01 | PLATE (LCD), TRANSPARENT | | 113 | 3-229-845-01 | PLATE (REAR), INDICATION | |
| * 105 | 1-680-426-11 | FOOT SWITCH BOARD | | * 114 | 1-757-622-11 | CABLE, FLEXIBLE FLAT (295mm) | |
| 106 | 3-229-120-01 | CUSHION (LCD) | | 115 | 3-231-101-01 | SPACER (REAR) | |
| * 107 | 1-680-428-11 | AUDIO IO BOARD | | 116 | 3-225-496-01 | CLAMP (FLAT CLAMP 45) | |
| * 108 | A-3062-207-A | LCD MOUNTED PC BOARD | | | | | |

6-4. MD MECHANISM SECTION (CCMD-2000)



| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|-----------------------------------|---------|----------|--------------|--|---------|
| * 251 | A-3062-214-A | MD BOARD, COMPLETE | | 269 | 3-704-246-13 | SCREW (P1.4X2.0) | |
| 252 | 4-628-169-01 | SCREW (M2X3) | | 270 | 3-953-235-01 | DAMPER, OIL | |
| 253 | 4-628-170-01 | SCREW (M1.7X4.5) | | 271 | 4-628-168-01 | SCREW (M1.7X2.8) | |
| * 254 | 4-628-165-01 | SHAFT, SUB GUIDE | | * 272 | 4-628-647-01 | BRACKET, DAMPER | |
| 255 | 3-701-437-11 | WASHER | | 273 | 4-628-180-01 | SPRING, SCREW GUIDE | |
| * 256 | 4-628-190-01 | BRACKET, SUB SHAFT | | 274 | 4-628-189-02 | GUIDE, SCREW | |
| 257 | 4-628-193-21 | DOOR | | 275 | 3-345-648-91 | SCREW (M1.4), TOOTHED LOCK | |
| 258 | 4-628-178-01 | SPRING, DOOR RETURN | | * 276 | 4-628-166-01 | SPRING, GUIDE SHAFT RETAINER | |
| 259 | A-3178-000-A | BUM-F1 BOARD, COMPLETE | | 277 | 4-987-697-01 | SHAFT (GUIDE A) | |
| 260 | 1-777-945-11 | WIRE, FLAT TYPE (18 CORE) | | * 278 | 4-628-182-01 | HOOK, OWH TRIGGER | |
| 261 | 4-628-167-01 | SCREW, STEP | | 279 | 3-040-840-01 | SPRING, TRIGGER HOOK | |
| 262 | 4-979-919-01 | INSULATOR (102) | | 280 | 3-713-786-51 | SCREW +P 2X3 | |
| 263 | X-3377-612-1 | HOLDER ASSY, CARTRIDGE | | △ 281 | 8-583-027-03 | OPTICAL PICK-UP KMS-250A | |
| * 264 | 4-628-164-01 | SPRING, TENSION | | M901 | A-3174-053-A | MOTOR, SPINDLE CHASSIS ASSY (SPINDLE) | |
| * 265 | 4-628-181-01 | SPRING, TENSION | | M902 | 1-698-454-12 | MOTOR, STEPPING (F LA15-2002-A) (SLED) | |
| 267 | 4-628-646-11 | SCREW (M2X3.5), TOOTHED LOCK (+)P | | M903 | 1-698-455-11 | MOTOR, DC GEARED (12C-082G) (LOADING) | |
| * 268 | 4-628-355-01 | SPRING, SCREW RETAINER | | HR901 | A-3174-011-A | REC/PB HEAD ASSY | |

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- CAPACITORS:
uF: μF
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- COILS
uH: μH

- SEMICONDUCTORS
In each case, u: μ, for example:
uA...: μA..., uPA..., μPA...,
uPB..., μPB..., uPC..., μPC...,
uPD..., μPD...

When indicating parts by reference number, please include the board name.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

| Ref. No. | Part No. | Description | Remarks |
|----------|--------------|---------------------------------|------------|
| * | 1-680-428-11 | AUDIO I/O BOARD ***** | |
| | | < CONNECTOR > | |
| CN9102 | 1-564-505-21 | PLUG, CONNECTOR 2P | |
| CN9103 | 1-564-505-21 | PLUG, CONNECTOR 2P | |
| ***** | | | |
| | A-3178-000-A | BUM-F1 BOARD, COMPLETE ***** | |
| | | < CAPACITOR > | |
| C301 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| C302 | 1-162-974-11 | CERAMIC CHIP 0.01uF | 50V |
| C303 | 1-162-974-11 | CERAMIC CHIP 0.01uF | 50V |
| C304 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| C305 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C306 | 1-162-974-11 | CERAMIC CHIP 0.01uF | 50V |
| C307 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C308 | 1-162-967-11 | CERAMIC CHIP 0.0033uF | 10% 50V |
| C309 | 1-104-913-11 | TANTAL. CHIP 10uF | 20.00% 16V |
| C310 | 1-164-489-11 | CERAMIC CHIP 0.22uF | 10.00% 16V |
| C312 | 1-163-809-11 | CERAMIC CHIP 0.047uF | 10% 25V |
| C313 | 1-164-227-11 | CERAMIC CHIP 0.022uF | 10% 25V |
| C314 | 1-164-227-11 | CERAMIC CHIP 0.022uF | 10% 25V |
| C315 | 1-164-344-11 | CERAMIC CHIP 0.068uF | 10.00% 25V |
| C316 | 1-164-227-11 | CERAMIC CHIP 0.022uF | 10% 25V |
| C317 | 1-164-227-11 | CERAMIC CHIP 0.022uF | 10% 25V |
| C318 | 1-164-005-11 | CERAMIC CHIP 0.47uF | 25V |
| C319 | 1-164-227-11 | CERAMIC CHIP 0.022uF | 10% 25V |
| C320 | 1-164-005-11 | CERAMIC CHIP 0.47uF | 25V |
| | | < CONNECTOR > | |
| CN301 | 1-573-927-11 | CONNECTOR, FFC/FPC (ZIF) 18P | |
| CN302 | 1-766-759-11 | CONNECTOR, FFC/FPC 4P | |
| CN303 | 1-766-759-11 | CONNECTOR, FFC/FPC 4P | |
| CN304 | 1-766-759-11 | CONNECTOR, FFC/FPC 4P | |
| | | < DIODE > | |
| D301 | 8-719-801-78 | DIODE 1S2837-T1 | |
| | | < IC > | |
| IC301 | 8-759-350-04 | IC MPC17A85ZVMEL | |
| IC302 | 8-759-098-52 | IC CXA8027N-ELL2000 | |

| Ref. No. | Part No. | Description | Remarks |
|----------|--------------|----------------------------------|------------|
| | | < TRANSISTOR > | |
| Q301 | 8-729-015-76 | TRANSISTOR UN5211-TX | |
| Q302 | 8-729-141-48 | TRANSISTOR 2SB624T1-BV345 | |
| | | < RESISTOR > | |
| R301 | 1-216-845-11 | METAL CHIP 100K | 5% 1/16W |
| R302 | 1-218-716-11 | METAL CHIP 10K | 0.5% 1/16W |
| R303 | 1-218-716-11 | METAL CHIP 10K | 0.5% 1/16W |
| R304 | 1-216-079-00 | METAL CHIP 18K | 5% 1/10W |
| R305 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R306 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R307 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R308 | 1-217-806-11 | RES-CHIP 1 | 5% 1/8W |
| R309 | 1-217-806-11 | RES-CHIP 1 | 5% 1/8W |
| R310 | 1-216-815-11 | METAL CHIP 330 | 5% 1/16W |
| R311 | 1-217-806-11 | RES-CHIP 1 | 5% 1/8W |
| R312 | 1-217-806-11 | RES-CHIP 1 | 5% 1/8W |
| R313 | 1-216-210-00 | RES-CHIP 3.3K | 5% 1/8W |
| R314 | 1-216-194-00 | METAL CHIP 680 | 5% 1/8W |
| R315 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| | | < SWITCH > | |
| S301 | 1-692-363-11 | SWITCH, PUSH (1 KEY) (PROTECT) | |
| S302 | 1-692-273-11 | SWITCH, PUSH (1 KEY) (REFLECT) | |
| S303 | 1-692-273-11 | SWITCH, PUSH (1 KEY) (DISC IN) | |
| S304 | 1-572-467-61 | SWITCH, PUSH (1 KEY) (LIMIT) | |
| ***** | | | |
| * | 1-680-426-11 | FOOT SWITCH BOARD ***** | |
| | | < CAPACITOR > | |
| C8001 | 1-162-971-11 | CERAMIC CHIP 0.001uF | 10.00% 50V |
| C8002 | 1-162-971-11 | CERAMIC CHIP 0.001uF | 10.00% 50V |
| C8003 | 1-162-971-11 | CERAMIC CHIP 0.001uF | 10.00% 50V |
| C9001 | 1-162-971-11 | CERAMIC CHIP 0.001uF | 10.00% 50V |
| | | < CONNECTOR > | |
| * CN8001 | 1-793-807-11 | PIN, CONNECTOR (WITH PWB) 20P | |
| CN8002 | 1-750-568-11 | SOCKET, CONNECTOR (CONTROL UNIT) | |
| | | < DIODE > | |
| D8001 | 8-719-017-58 | DIODE MA8068-TX | |
| D8002 | 8-719-017-58 | DIODE MA8068-TX | |
| D8003 | 8-719-017-58 | DIODE MA8068-TX | |

FOOT SWITCH

LCD

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks | | | | |
|------------------|--------------|------------------------------|----------|----------------|--------------|--------------|------------------|------------------|-------|----|-------|
| < FERRITE BEAD > | | | | < DIODE > | | | | | | | |
| FB8002 | 1-414-229-11 | FERRITE | 0uH | D4001 | 8-719-069-29 | DIODE | RB520S-30TE61 | | | | |
| FB8003 | 1-414-229-11 | FERRITE | 0uH | D4002 | 8-719-069-29 | DIODE | RB520S-30TE61 | | | | |
| FB8004 | 1-414-229-11 | FERRITE | 0uH | D4003 | 8-719-420-77 | DIODE | MA724-TX | | | | |
| < FILTER > | | | | < IC > | | | | | | | |
| FL8001 | 1-411-312-11 | FILTER, COMMON MODE | | IC4001 | 8-759-523-92 | IC | TC74VHC21FT(EL) | | | | |
| < JACK > | | | | IC4002 | 8-759-523-79 | IC | TC74VHC02FT(EL) | | | | |
| J9001 | 1-563-282-11 | JACK, SMALL TYPE (EAR) | | IC4004 | 8-759-188-96 | IC | SED1335FOB | | | | |
| < LINE FILTER > | | | | IC4006 | 6-700-495-01 | IC | LC35256FT-70U | | | | |
| LF9001 | 1-403-601-21 | FILTER, COMMON MODE | | IC4007 | 8-759-523-95 | IC | TC74VHC74FT(EL) | | | | |
| ***** | | | | IC4008 | 8-759-523-79 | IC | TC74VHC02FT(EL) | | | | |
| * | A-3062-207-A | LCD BOARD, COMPLETE | | IC4010 | 8-759-524-18 | IC | TC74VHC163FT(EL) | | | | |
| ***** | | | | IC4011 | 8-759-524-18 | IC | TC74VHC163FT(EL) | | | | |
| < CAPACITOR > | | | | IC4012 | 8-759-523-95 | IC | TC74VHC74FT(EL) | | | | |
| C4003 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | IC4013 | 8-759-582-86 | IC | XC62FP3002PR | | | |
| C4004 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | IC4014 | 8-759-486-73 | IC | XC62FP3302PR | | | |
| C4005 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | IC4015 | 8-759-582-85 | IC | XC6382F501MR | | | |
| C4009 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | IC4016 | 8-759-524-50 | IC | TC74VHC541FT(EL) | | | |
| C4010 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | IC4017 | 8-759-196-96 | IC | TC7SH08FU-TE85R | | | |
| < COIL > | | | | < TRANSISTOR > | | | | | | | |
| C4011 | 1-126-395-11 | ELECT | 22uF | 20% | 16V | L4001 | 1-414-398-11 | INDUCTOR | 10uH | | |
| C4012 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | L4002 | 1-469-989-11 | INDUCTOR | 1MH | | |
| C4014 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | < RESISTOR > | | | | | |
| C4016 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | R4001 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| C4017 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | R4002 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| C4019 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | R4003 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| C4020 | 1-126-395-11 | ELECT | 22uF | 20% | 16V | R4004 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| C4021 | 1-126-395-11 | ELECT | 22uF | 20% | 16V | R4005 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| C4022 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V | R4006 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| C4023 | 1-126-395-11 | ELECT | 22uF | 20% | 16V | R4007 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| C4024 | 1-126-395-11 | ELECT | 22uF | 20% | 16V | R4008 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| C4025 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | R4009 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| C4026 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | R4010 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| C4027 | 1-126-393-11 | ELECT CHIP | 33uF | 20.00% | 10V | R4011 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| C4028 | 1-128-996-11 | ELECT CHIP | 4.7uF | 20% | 50V | R4012 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| C4029 | 1-162-967-11 | CERAMIC CHIP | 0.0033uF | 10% | 50V | R4013 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| C4030 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V | R4014 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| C4031 | 1-128-597-11 | ELECT CHIP | 4.7uF | 20.00% | 50V | R4015 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| C4032 | 1-128-593-11 | ELECT CHIP | 0.47uF | 20.00% | 50V | R4016 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| C4033 | 1-128-597-11 | ELECT CHIP | 4.7uF | 20.00% | 50V | R4017 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| C4034 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | R4018 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| C4035 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | R4019 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| C4036 | 1-126-395-11 | ELECT | 22uF | 20% | 16V | R4020 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| C4037 | 1-126-601-11 | ELECT CHIP | 2.2uF | 20% | 50V | R4021 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| C4038 | 1-126-191-11 | ELECT CHIP | 0.47uF | 20.00% | 50V | R4022 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| < CONNECTOR > | | | | < RESISTOR > | | | | | | | |
| * CN4001 | 1-815-206-21 | PIN, CONNECTOR 50P | | R4023 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | |
| CN4002 | 1-770-623-21 | PIN, CONNECTOR 6P | | R4024 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | |
| CN4003 | 1-573-929-11 | CONNECTOR, FFC/FPC (ZIF) 20P | | R4025 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | |
| CN4004 | 1-770-687-11 | CONNECTOR, FFC/FPC 4P | | | | | | | | | |

MDCT-1000

| | |
|------------|--------------------|
| LCD | LEVEL METER |
|------------|--------------------|

| Ref. No. | Part No. | Description | Quantity | Power | Remarks |
|----------------|--------------|-------------------------------|----------|--------|---------|
| R4026 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R4027 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R4028 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R4029 | 1-218-875-11 | METAL CHIP | 15K | 0.5% | 1/16W |
| R4030 | 1-218-875-11 | METAL CHIP | 15K | 0.5% | 1/16W |
| R4031 | 1-218-895-11 | METAL CHIP | 100K | 0.5% | 1/16W |
| R4032 | 1-218-895-11 | METAL CHIP | 100K | 0.5% | 1/16W |
| R4033 | 1-218-899-11 | METAL CHIP | 150K | 0.5% | 1/16W |
| R4034 | 1-218-895-11 | METAL CHIP | 100K | 0.5% | 1/16W |
| R4035 | 1-216-847-11 | METAL CHIP | 150K | 5% | 1/16W |
| R4036 | 1-216-855-11 | METAL CHIP | 680K | 5% | 1/16W |
| R4037 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| R4038 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| R4039 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| R4040 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| R4041 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| R4042 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| R4043 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| R4044 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| R4045 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| R4046 | 1-218-233-11 | RES-CHIP | 47 | 5% | 1/2W |
| R4047 | 1-218-233-11 | RES-CHIP | 47 | 5% | 1/2W |
| R4048 | 1-218-233-11 | RES-CHIP | 47 | 5% | 1/2W |
| R4049 | 1-218-233-11 | RES-CHIP | 47 | 5% | 1/2W |
| R4050 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| R4051 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R4052 | 1-218-899-11 | METAL CHIP | 150K | 0.5% | 1/16W |
| R4053 | 1-218-895-11 | METAL CHIP | 100K | 0.5% | 1/16W |
| R4054 | 1-218-875-11 | METAL CHIP | 15K | 0.5% | 1/16W |
| R4055 | 1-218-875-11 | METAL CHIP | 15K | 0.5% | 1/16W |
| < THERMISTOR > | | | | | |
| TH4001 | 1-810-947-11 | THERMISTOR (1608) | | | |
| ***** | | | | | |
| * | 1-680-427-11 | LEVEL METER BOARD | | | |
| ***** | | | | | |
| | 3-225-530-01 | BRACKET (LED MOUNT B) | | | |
| < CAPACITOR > | | | | | |
| C9201 | 1-113-987-11 | TANTAL. CHIP | 4.7uF | | 25V |
| C9202 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C9203 | 1-104-851-11 | TANTAL. CHIP | 10uF | 20.00% | 10V |
| C9204 | 1-113-987-11 | TANTAL. CHIP | 4.7uF | | 25V |
| C9205 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C9206 | 1-104-851-11 | TANTAL. CHIP | 10uF | 20.00% | 10V |
| C9207 | 1-113-987-11 | TANTAL. CHIP | 4.7uF | | 25V |
| C9208 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C9209 | 1-104-851-11 | TANTAL. CHIP | 10uF | 20.00% | 10V |
| C9210 | 1-113-987-11 | TANTAL. CHIP | 4.7uF | | 25V |
| C9211 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C9212 | 1-104-851-11 | TANTAL. CHIP | 10uF | 20.00% | 10V |
| < CONNECTOR > | | | | | |
| * CN9201 | 1-793-807-11 | PIN, CONNECTOR (WITH PWB) 20P | | | |

| Ref. No. | Part No. | Description | Quantity | Power | Remarks |
|------------------|--------------|-----------------------|----------|-------|-----------|
| < DIODE > | | | | | |
| D9201 | 8-719-077-40 | LED SLR-322MG3F | | | |
| D9202 | 8-719-077-40 | LED SLR-322MG3F | | | |
| D9203 | 8-719-077-40 | LED SLR-322MG3F | | | |
| D9204 | 8-719-077-40 | LED SLR-322MG3F | | | |
| D9205 | 8-719-077-40 | LED SLR-322MG3F | | | |
| D9206 | 8-719-077-40 | LED SLR-322MG3F | | | |
| D9207 | 8-719-077-40 | LED SLR-322MG3F | | | |
| D9208 | 8-719-077-40 | LED SLR-322MG3F | | | |
| D9209 | 8-719-077-40 | LED SLR-322MG3F | | | |
| D9210 | 8-719-077-40 | LED SLR-322MG3F | | | |
| D9211 | 8-719-077-40 | LED SLR-322MG3F | | | |
| D9212 | 8-719-077-40 | LED SLR-322MG3F | | | |
| D9213 | 8-719-059-50 | DIODE MA3J142D0LSO | | | |
| D9214 | 8-719-059-50 | DIODE MA3J142D0LSO | | | |
| D9215 | 8-719-077-40 | LED SLR-322MG3F (ALL) | | | |
| D9216 | 8-719-077-40 | LED SLR-322MG3F (1) | | | |
| D9217 | 8-719-077-40 | LED SLR-322MG3F (2) | | | |
| D9218 | 8-719-077-40 | LED SLR-322MG3F (3) | | | |
| D9219 | 8-719-077-40 | LED SLR-322MG3F (4) | | | |
| < FERRITE BEAD > | | | | | |
| FB9201 | 1-414-229-11 | FERRITE | | | 0uH |
| FB9202 | 1-414-229-11 | FERRITE | | | 0uH |
| FB9203 | 1-414-229-11 | FERRITE | | | 0uH |
| FB9204 | 1-414-229-11 | FERRITE | | | 0uH |
| FB9205 | 1-414-229-11 | FERRITE | | | 0uH |
| FB9206 | 1-414-229-11 | FERRITE | | | 0uH |
| FB9207 | 1-414-229-11 | FERRITE | | | 0uH |
| FB9208 | 1-414-229-11 | FERRITE | | | 0uH |
| FB9209 | 1-414-229-11 | FERRITE | | | 0uH |
| < IC > | | | | | |
| IC9201 | 6-700-089-01 | IC BA6124F-E2 | | | |
| IC9202 | 6-700-089-01 | IC BA6124F-E2 | | | |
| IC9203 | 6-700-089-01 | IC BA6124F-E2 | | | |
| IC9204 | 6-700-089-01 | IC BA6124F-E2 | | | |
| < TRANSISTOR > | | | | | |
| Q9201 | 8-729-402-96 | TRANSISTOR | | | UN5114-TX |
| Q9202 | 8-729-030-46 | TRANSISTOR | | | XP4314-TX |
| Q9203 | 8-729-030-46 | TRANSISTOR | | | XP4314-TX |
| < RESISTOR > | | | | | |
| R9201 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R9202 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R9203 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R9204 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R9205 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R9206 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R9207 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R9208 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R9209 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R9210 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R9211 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R9212 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R9213 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R9214 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R9215 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|-------------------------------------|--------------|---------------------------|------------------|----------|--------------|--------------|------------------|
| R9216 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | C342 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10.00% 16V |
| R9217 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | C343 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| R9218 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | C344 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10.00% 16V |
| R9219 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | C345 | 1-107-686-11 | TANTAL. CHIP | 4.7uF 20.00% 16V |
| R9220 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | C346 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10.00% 16V |
| R9221 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | C347 | 1-107-686-11 | TANTAL. CHIP | 4.7uF 20.00% 16V |
| R9222 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | C348 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| R9223 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | C349 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| R9224 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | C350 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| R9225 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | C351 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10.00% 16V |
| < VARIABLE RESISTOR > | | | | C352 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| RV9201 | 1-225-901-11 | RES. ADJ, CERMET (3 TYPE) | 10K | C353 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF 10% 50V |
| RV9202 | 1-225-901-11 | RES. ADJ, CERMET (3 TYPE) | 10K | C354 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF 10% 50V |
| RV9203 | 1-225-901-11 | RES. ADJ, CERMET (3 TYPE) | 10K | C355 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| RV9204 | 1-225-901-11 | RES. ADJ, CERMET (3 TYPE) | 10K | C356 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| < SWITCH > | | | | C357 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| S9201 | 1-786-094-11 | SWITCH BLOCK (MONITOR) | | C358 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| ***** | | | | C359 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| * A-3021-406-A MAIN BOARD, COMPLETE | | | | C360 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| ***** | | | | C361 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| 3-899-248-11 SCREW (M3X8) | | | | C362 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| < CAPACITOR > | | | | C365 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V |
| C139 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V | C366 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V |
| C140 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V | C367 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| C141 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V | C368 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C142 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10.00% 16V | C369 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| C143 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V | C370 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C144 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10.00% 16V | C371 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V |
| C145 | 1-107-686-11 | TANTAL. CHIP | 4.7uF 20.00% 16V | C372 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V |
| C146 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10.00% 16V | C501 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C147 | 1-107-686-11 | TANTAL. CHIP | 4.7uF 20.00% 16V | C504 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| C148 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C507 | 1-164-361-11 | CERAMIC CHIP | 0.047uF 16V |
| C149 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V | C514 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| C150 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C515 | 1-107-686-11 | TANTAL. CHIP | 4.7uF 16V |
| C151 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10.00% 16V | C516 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V |
| C152 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V | C517 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| C153 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF 10% 50V | C518 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C154 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF 10% 50V | C519 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10.00% 16V |
| C155 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V | C520 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C156 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V | C521 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| C157 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C522 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C158 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C523 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| C159 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V | C524 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| C160 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V | C525 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| C161 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C526 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| C162 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V | C527 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C165 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V | C528 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C166 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V | C529 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| C167 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V | C530 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| C168 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C531 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C169 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V | C532 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| C170 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C533 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| C171 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V | C534 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| C172 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V | C536 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| C339 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V | C537 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V |
| C340 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V | C538 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V |
| C341 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V | C544 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| | | | | C553 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| | | | | C554 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V |
| | | | | C555 | 1-128-964-11 | TANTAL. CHIP | 100uF 20% 6.3V |

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MAIN

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|--------------|--------------------|----------|--------------|--------------|----------------|
| C556 | 1-128-964-11 | TANTAL. CHIP | 100uF 20% 6.3V | C1042 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V |
| C573 | 1-162-915-11 | CERAMIC CHIP | 10PF 0.5PF 50V | C1043 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C575 | 1-162-915-11 | CERAMIC CHIP | 10PF 0.5PF 50V | C1044 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V |
| C701 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1045 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C702 | 1-126-940-11 | ELECT | 330uF 20.00% 25V | C1047 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C703 | 1-126-940-11 | ELECT | 330uF 20.00% 25V | C1048 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V |
| C704 | 1-126-940-11 | ELECT | 330uF 20.00% 25V | C1049 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C705 | 1-126-940-11 | ELECT | 330uF 20.00% 25V | C1050 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V |
| C706 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1051 | 1-162-915-11 | CERAMIC CHIP | 10PF 0.5PF 50V |
| C707 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1052 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V |
| C708 | 1-126-934-11 | ELECT | 220uF 20.00% 16V | C1053 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C709 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1054 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C710 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1055 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C711 | 1-126-934-11 | ELECT | 220uF 20.00% 16V | C1056 | 1-162-915-11 | CERAMIC CHIP | 10PF 0.5PF 50V |
| C712 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1057 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C713 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1058 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C714 | 1-117-681-11 | ELECT CHIP | 100uF 20.00% 16V | C1059 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C715 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1060 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C716 | 1-117-681-11 | ELECT CHIP | 100uF 20.00% 16V | C1061 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C717 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1062 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V |
| C718 | 1-119-750-11 | TANTAL. CHIP | 22uF 20.00% 6.3V | C1063 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V |
| C719 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1064 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C720 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1067 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C721 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1068 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C722 | 1-162-969-11 | CERAMIC CHIP | 0.0068uF 10% 25V | C1069 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V |
| C723 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1070 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C724 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V | C1071 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V |
| C725 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V | C1080 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C726 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V | C1081 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V |
| C727 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V | C1082 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C728 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1083 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C729 | 1-104-851-11 | TANTAL. CHIP | 10uF 20.00% 10V | C1084 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1004 | 1-162-971-11 | CERAMIC CHIP | 0.001uF 10.00% 50V | C1085 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1008 | 1-162-971-11 | CERAMIC CHIP | 0.001uF 10.00% 50V | C1086 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1011 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1087 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1013 | 1-164-361-11 | CERAMIC CHIP | 0.047uF 16V | C1088 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1014 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1089 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1015 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1090 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V |
| C1016 | 1-165-112-11 | CERAMIC CHIP | 0.33uF 16V | C1091 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1017 | 1-165-112-11 | CERAMIC CHIP | 0.33uF 16V | C1093 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1018 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1094 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1019 | 1-165-112-11 | CERAMIC CHIP | 0.33uF 16V | C1095 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1021 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V | C1096 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V |
| C1022 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1097 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V |
| C1024 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1099 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1025 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1102 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1026 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1103 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1029 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1104 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1030 | 1-162-915-11 | CERAMIC CHIP | 10PF 0.5PF 50V | C1105 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1031 | 1-162-915-11 | CERAMIC CHIP | 10PF 0.5PF 50V | C1106 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1032 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1107 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1033 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V | C1108 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1034 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1110 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1035 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V | C1111 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1036 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1112 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1037 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1113 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1038 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1114 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V |
| C1039 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1115 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V |
| C1040 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C1117 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C1041 | 1-126-204-11 | ELECT CHIP | 47uF 20% 16V | C1120 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|--------------|----------|------------|----------|--------------|--------------------------------|
| C1121 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | C1196 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
| C1122 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | C1197 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
| C1123 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | C1198 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
| C1124 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | C1199 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
| C1125 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | C1200 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
| C1126 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | C1201 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
| C1128 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | C1202 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
| C1129 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | C1203 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
| C1130 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | C1204 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
| C1131 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | C1205 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
| C1132 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | C1206 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
| C1133 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | C1207 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
| C1134 | 1-162-971-11 | CERAMIC CHIP | 0.001uF | 10.00% 50V | C1208 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
| C1135 | 1-162-971-11 | CERAMIC CHIP | 0.001uF | 10.00% 50V | C1209 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
| C1136 | 1-162-971-11 | CERAMIC CHIP | 0.001uF | 10.00% 50V | C1210 | 1-162-959-11 | CERAMIC CHIP 330PF 5% 50V |
| C1137 | 1-126-942-61 | ELECT | 1000uF | 20.00% 25V | C1211 | 1-162-959-11 | CERAMIC CHIP 330PF 5% 50V |
| C1138 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | C1213 | 1-162-959-11 | CERAMIC CHIP 330PF 5% 50V |
| C1139 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | C1214 | 1-162-959-11 | CERAMIC CHIP 330PF 5% 50V |
| C1140 | 1-164-346-11 | CERAMIC CHIP | 1uF | 16V | C1215 | 1-162-959-11 | CERAMIC CHIP 330PF 5% 50V |
| C1142 | 1-162-962-11 | CERAMIC CHIP | 470PF | 10% 50V | C1216 | 1-162-959-11 | CERAMIC CHIP 330PF 5% 50V |
| C1143 | 1-162-967-11 | CERAMIC CHIP | 0.0033uF | 10% 50V | C1217 | 1-164-005-11 | CERAMIC CHIP 0.47uF 25V |
| C1144 | 1-162-967-11 | CERAMIC CHIP | 0.0033uF | 10% 50V | C1218 | 1-162-959-11 | CERAMIC CHIP 330PF 5% 50V |
| C1145 | 1-128-399-11 | ELECT CHIP | 330uF | 20.00% 16V | C1219 | 1-162-959-11 | CERAMIC CHIP 330PF 5% 50V |
| C1146 | 1-128-399-11 | ELECT CHIP | 330uF | 20.00% 16V | C1220 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
| C1147 | 1-128-399-11 | ELECT CHIP | 330uF | 20.00% 16V | C1221 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
| C1148 | 1-128-399-11 | ELECT CHIP | 330uF | 20.00% 16V | C1222 | 1-162-959-11 | CERAMIC CHIP 330PF 5% 50V |
| C1149 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | C1223 | 1-164-156-11 | CERAMIC CHIP 0.1uF 25V |
| C1150 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | C1224 | 1-162-961-11 | CERAMIC CHIP 330PF 10% 50V |
| C1151 | 1-128-399-11 | ELECT CHIP | 330uF | 20.00% 16V | | | < CONNECTOR > |
| C1152 | 1-128-399-11 | ELECT CHIP | 330uF | 20.00% 16V | | | |
| C1153 | 1-128-399-11 | ELECT CHIP | 330uF | 20.00% 16V | * CN109 | 1-793-807-11 | PIN, CONNECTOR (WITH PWB) 20P |
| C1154 | 1-128-399-11 | ELECT CHIP | 330uF | 20.00% 16V | * CN112 | 1-691-591-11 | PIN, CONNECTOR (1.5MM) (SMD)8P |
| C1155 | 1-126-204-11 | ELECT CHIP | 47uF | 20% 16V | CN115 | 1-564-505-11 | PLUG, CONNECTOR 2P |
| C1156 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | CN1001 | 1-774-666-11 | CONNECTOR, FFC/FPC 30P |
| C1157 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | * CN1002 | 1-793-807-11 | PIN, CONNECTOR (WITH PWB) 20P |
| C1162 | 1-164-346-11 | CERAMIC CHIP | 1uF | 16V | CN1003 | 1-785-125-11 | CONNECTOR 6P |
| C1165 | 1-126-204-11 | ELECT CHIP | 47uF | 20% 16V | * CN1004 | 1-815-206-21 | PIN, CONNECTOR 50P |
| C1167 | 1-164-346-11 | CERAMIC CHIP | 1uF | 16V | CN1005 | 1-770-700-11 | CONNECTOR, FFC/FPC 17P |
| C1171 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | | | < DIODE > |
| C1174 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | D501 | 8-719-404-50 | DIODE MA111-TX |
| C1175 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | D701 | 8-719-404-50 | DIODE MA111-TX |
| C1177 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | D702 | 8-719-053-18 | DIODE 1SR154-400TE-25 |
| C1178 | 1-162-959-11 | CERAMIC CHIP | 330PF | 5% 50V | D703 | 8-719-053-18 | DIODE 1SR154-400TE-25 |
| C1179 | 1-162-959-11 | CERAMIC CHIP | 330PF | 5% 50V | D704 | 8-719-053-18 | DIODE 1SR154-400TE-25 |
| C1180 | 1-162-959-11 | CERAMIC CHIP | 330PF | 5% 50V | D1004 | 8-719-066-98 | DIODE RB051L-40TE25 |
| C1181 | 1-162-959-11 | CERAMIC CHIP | 330PF | 5% 50V | D1005 | 8-719-066-98 | DIODE RB051L-40TE25 |
| C1182 | 1-162-959-11 | CERAMIC CHIP | 330PF | 5% 50V | D1006 | 8-719-067-33 | DIODE MA2HD0800LS0 |
| C1183 | 1-162-959-11 | CERAMIC CHIP | 330PF | 5% 50V | D1007 | 8-719-066-98 | DIODE RB051L-40TE25 |
| C1184 | 1-162-959-11 | CERAMIC CHIP | 330PF | 5% 50V | D1008 | 8-719-076-95 | DIODE PTZ-TE25-18B |
| C1185 | 1-162-959-11 | CERAMIC CHIP | 330PF | 5% 50V | | | < FUSE > |
| C1186 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% 50V | F1001 | 1-533-829-21 | FUSE, CHIP |
| C1187 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% 50V | | | < FERRITE BEAD > |
| C1188 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% 50V | FB1001 | 1-414-229-11 | FERRITE 0uH |
| C1189 | 1-162-959-11 | CERAMIC CHIP | 330PF | 5% 50V | FB1002 | 1-414-229-11 | FERRITE 0uH |
| C1190 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% 50V | FB1003 | 1-414-229-11 | FERRITE 0uH |
| C1191 | 1-162-959-11 | CERAMIC CHIP | 330PF | 5% 50V | FB1004 | 1-414-229-11 | FERRITE 0uH |
| C1192 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% 50V | FB1005 | 1-414-229-11 | FERRITE 0uH |
| C1193 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% 50V | | | |
| C1194 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% 50V | | | |
| C1195 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% 50V | | | |

MDCT-1000

MAIN

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|-------------|---------|----------|--------------|---------------------|---------|
| FB1006 | 1-414-229-11 | FERRITE | OuH | FB1112 | 1-500-283-11 | FERRITE | OuH |
| FB1007 | 1-414-229-11 | FERRITE | OuH | FB1113 | 1-500-283-11 | FERRITE | OuH |
| FB1008 | 1-414-229-11 | FERRITE | OuH | FB1114 | 1-500-283-11 | FERRITE | OuH |
| FB1009 | 1-414-229-11 | FERRITE | OuH | FB1115 | 1-500-283-11 | FERRITE | OuH |
| FB1010 | 1-414-229-11 | FERRITE | OuH | FB1116 | 1-414-229-11 | FERRITE | OuH |
| FB1011 | 1-414-229-11 | FERRITE | OuH | FB1117 | 1-414-229-11 | FERRITE | OuH |
| FB1013 | 1-414-229-11 | FERRITE | OuH | FB1118 | 1-414-229-11 | FERRITE | OuH |
| FB1015 | 1-414-229-11 | FERRITE | OuH | FB1119 | 1-414-229-11 | FERRITE | OuH |
| FB1016 | 1-414-229-11 | FERRITE | OuH | FB1120 | 1-414-229-11 | FERRITE | OuH |
| FB1017 | 1-414-229-11 | FERRITE | OuH | FB1121 | 1-414-229-11 | FERRITE | OuH |
| FB1018 | 1-414-229-11 | FERRITE | OuH | FB1122 | 1-500-283-11 | FERRITE | OuH |
| FB1019 | 1-414-229-11 | FERRITE | OuH | FB1123 | 1-500-283-11 | FERRITE | OuH |
| FB1020 | 1-414-229-11 | FERRITE | OuH | FB1124 | 1-500-284-21 | FERRITE | OuH |
| FB1021 | 1-414-229-11 | FERRITE | OuH | FB1125 | 1-500-284-21 | FERRITE | OuH |
| FB1022 | 1-414-229-11 | FERRITE | OuH | | | < FILTER > | |
| FB1023 | 1-414-229-11 | FERRITE | OuH | FL1001 | 1-233-736-21 | FILTER, EMI | |
| FB1024 | 1-414-229-11 | FERRITE | OuH | FL1002 | 1-233-736-21 | FILTER, EMI | |
| FB1025 | 1-414-229-11 | FERRITE | OuH | FL1003 | 1-416-846-11 | COIL, LINE FILTER | |
| FB1026 | 1-414-229-11 | FERRITE | OuH | | | < IC > | |
| FB1027 | 1-414-229-11 | FERRITE | OuH | IC105 | 8-759-689-64 | IC AK4522VF-E2 | |
| FB1028 | 1-414-229-11 | FERRITE | OuH | IC106 | 8-759-357-68 | IC NJM2115M-TE2 | |
| FB1029 | 1-414-229-11 | FERRITE | OuH | IC107 | 8-759-357-68 | IC NJM2115M-TE2 | |
| FB1030 | 1-414-229-11 | FERRITE | OuH | IC305 | 8-759-689-64 | IC AK4522VF-E2 | |
| FB1031 | 1-414-229-11 | FERRITE | OuH | IC306 | 8-759-357-68 | IC NJM2115M-TE2 | |
| FB1058 | 1-414-229-11 | FERRITE | OuH | IC307 | 8-759-357-68 | IC NJM2115M-TE2 | |
| FB1059 | 1-414-229-11 | FERRITE | OuH | IC501 | 8-759-075-69 | IC NJU4066BV(TE2) | |
| FB1060 | 1-414-229-11 | FERRITE | OuH | IC505 | 8-759-357-68 | IC NJM2115M-TE2 | |
| FB1061 | 1-414-229-11 | FERRITE | OuH | IC506 | 8-759-357-68 | IC NJM2115M-TE2 | |
| FB1062 | 1-414-229-11 | FERRITE | OuH | IC507 | 8-759-701-54 | IC NJM2073D | |
| FB1063 | 1-414-229-11 | FERRITE | OuH | IC509 | 8-759-573-33 | IC NJU7082BV(TE2) | |
| FB1064 | 1-414-229-11 | FERRITE | OuH | IC701 | 8-759-476-24 | IC BA09SFP-E2 | |
| FB1065 | 1-414-229-11 | FERRITE | OuH | IC702 | 8-759-496-15 | IC BA05ST-V5 | |
| FB1066 | 1-414-229-11 | FERRITE | OuH | IC703 | 8-759-486-73 | IC XC62FP3302PR | |
| FB1067 | 1-414-229-11 | FERRITE | OuH | IC704 | 8-759-523-79 | IC TC74VHC02FT(EL) | |
| FB1068 | 1-414-229-11 | FERRITE | OuH | IC705 | 8-759-523-78 | IC TC74VHC00FT(EL) | |
| FB1084 | 1-414-229-11 | FERRITE | OuH | IC706 | 8-759-357-68 | IC NJM2115M-TE2 | |
| FB1085 | 1-414-229-11 | FERRITE | OuH | IC1002 | 8-759-918-65 | IC TL7700CPS-E20 | |
| FB1086 | 1-414-229-11 | FERRITE | OuH | IC1003 | 8-759-385-35 | IC BR93LC66RF | |
| FB1087 | 1-414-229-11 | FERRITE | OuH | IC1005 | 8-759-484-69 | IC MAX3221CAE-TE2 | |
| FB1088 | 1-414-229-11 | FERRITE | OuH | IC1006 | 8-759-271-86 | IC TC7SH04FU-TE85R | |
| FB1091 | 1-414-229-11 | FERRITE | OuH | IC1007 | 8-759-446-15 | IC HD6413003TF16 | |
| FB1092 | 1-500-284-21 | FERRITE | OuH | IC1008 | 8-759-657-24 | IC XC61FC4512PR | |
| FB1093 | 1-500-284-21 | FERRITE | OuH | IC1009 | 8-759-196-96 | IC TC7SH08FU-TE85R | |
| FB1094 | 1-500-284-21 | FERRITE | OuH | IC1010 | 8-759-837-09 | IC HN27C4096AHG-85 | |
| FB1095 | 1-500-284-21 | FERRITE | OuH | IC1011 | 8-759-524-28 | IC TC74VHC245FT(EL) | |
| FB1096 | 1-500-284-21 | FERRITE | OuH | IC1012 | 8-759-196-97 | IC TC7SH32FU-TE85R | |
| FB1097 | 1-500-284-21 | FERRITE | OuH | IC1013 | 8-759-524-50 | IC TC74VHC541FT(EL) | |
| FB1098 | 1-500-284-21 | FERRITE | OuH | IC1014 | 8-759-196-96 | IC TC7SH08FU-TE85R | |
| FB1099 | 1-500-284-21 | FERRITE | OuH | IC1015 | 8-759-523-95 | IC TC74VHC74FT(EL) | |
| FB1100 | 1-500-284-21 | FERRITE | OuH | IC1016 | 6-700-495-01 | IC LC35256FT-70U | |
| FB1101 | 1-500-284-21 | FERRITE | OuH | IC1017 | 8-759-712-42 | IC GM71C16160CJ-6T | |
| FB1102 | 1-500-284-21 | FERRITE | OuH | IC1018 | 8-759-271-88 | IC TC7SHU04FU-TE85R | |
| FB1103 | 1-500-284-21 | FERRITE | OuH | IC1019 | 8-759-523-95 | IC TC74VHC74FT(EL) | |
| FB1104 | 1-500-284-21 | FERRITE | OuH | IC1020 | 8-759-271-86 | IC TC7SH04FU-TE85R | |
| FB1105 | 1-500-284-21 | FERRITE | OuH | IC1021 | 8-759-441-74 | IC CXD8655Q | |
| FB1106 | 1-500-284-21 | FERRITE | OuH | IC1022 | 8-759-327-60 | IC TC7W125FU-TE12R | |
| FB1107 | 1-500-284-21 | FERRITE | OuH | IC1025 | 8-759-443-00 | IC AM7200-50JC | |
| FB1108 | 1-500-284-21 | FERRITE | OuH | IC1026 | 8-759-443-00 | IC AM7200-50JC | |
| FB1109 | 1-500-284-21 | FERRITE | OuH | IC1027 | 8-759-524-50 | IC TC74VHC541FT(EL) | |
| FB1110 | 1-500-283-11 | FERRITE | OuH | | | | |
| FB1111 | 1-500-283-11 | FERRITE | OuH | | | | |

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|----------------------|---------|----------|----------|-----------------|---------|
| IC1032 | 8-759-271-86 | IC TC7SH04FU-TE85R | | | | < TRANSISTOR > | |
| IC1033 | 8-752-375-14 | IC CXD1809R | | | | | |
| IC1034 | 8-759-475-45 | IC TC74LCX157FT(EL) | | | | | |
| IC1035 | 8-759-475-45 | IC TC74LCX157FT(EL) | | | | | |
| IC1036 | 8-759-196-96 | IC TC7SH08FU-TE85R | | | | | |
| IC1037 | 8-759-271-86 | IC TC7SH04FU-TE85R | | | | | |
| IC1038 | 8-759-196-96 | IC TC7SH08FU-TE85R | | | | | |
| IC1039 | 8-759-196-96 | IC TC7SH08FU-TE85R | | | | | |
| IC1040 | 8-759-196-97 | IC TC7SH32FU-TE85R | | | | | |
| IC1042 | 8-752-403-46 | IC CXD1858R | | | | | |
| IC1043 | 8-759-523-94 | IC TC74VHC32FT(EL) | | | | | |
| IC1046 | 8-759-485-79 | IC TC7SET08FU(TE85R) | | | | | |
| IC1047 | 8-759-196-96 | IC TC7SH08FU-TE85R | | | | | |
| IC1048 | 8-759-271-86 | IC TC7SH04FU-TE85R | | | | | |
| IC1050 | 8-759-196-97 | IC TC7SH32FU-TE85R | | | | | |
| IC1051 | 8-752-403-46 | IC CXD1858R | | | | | |
| IC1052 | 8-759-523-94 | IC TC74VHC32FT(EL) | | | | | |
| IC1055 | 8-759-485-79 | IC TC7SET08FU(TE85R) | | | | | |
| IC1056 | 8-759-196-96 | IC TC7SH08FU-TE85R | | | | | |
| IC1057 | 8-759-271-86 | IC TC7SH04FU-TE85R | | | | | |
| IC1059 | 8-759-524-18 | IC TC74VHC163FT(EL) | | | | | |
| IC1060 | 8-759-524-18 | IC TC74VHC163FT(EL) | | | | | |
| IC1061 | 8-759-523-95 | IC TC74VHC74FT(EL) | | | | | |
| IC1062 | 8-759-271-86 | IC XC62FP3302PR | | | | | |
| IC1063 | 8-759-196-96 | IC TC7SH08FU-TE85R | | | | | |
| IC1064 | 8-759-166-48 | IC MB3778PFV-EF | | | | | |
| IC1065 | 8-759-486-73 | IC XC62FP3302PR | | | | | |
| IC1067 | 6-700-495-01 | IC LC35256FT-70U | | | | | |
| IC1069 | 8-759-486-73 | IC XC62FP3302PR | | | | | |
| IC1070 | 8-759-196-96 | IC TC7SH08FU-TE85R | | | | | |
| IC1071 | 8-759-196-97 | IC TC7SH32FU-TE85R | | | | | |
| IC1072 | 8-759-523-95 | IC TC74VHC74FT(EL) | | | | | |
| | | < JACK > | | | | | |
| J1001 | 1-774-741-11 | JACK, DC (DC IN 12V) | | | | | |
| | | < JUMPER > | | | | | |
| JC1001 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | | |
| JC1002 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | | |
| JC1003 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | | |
| | | < COIL > | | | | | |
| L701 | 1-409-532-41 | INDUCTOR | 33uH | | | | |
| L1002 | 1-414-398-11 | INDUCTOR | 10uH | | | | |
| L1003 | 1-414-398-11 | INDUCTOR | 10uH | | | | |
| L1004 | 1-414-398-11 | INDUCTOR | 10uH | | | | |
| L1005 | 1-414-398-11 | INDUCTOR | 10uH | | | | |
| L1006 | 1-414-398-11 | INDUCTOR | 10uH | | | | |
| L1007 | 1-414-398-11 | INDUCTOR | 10uH | | | | |
| L1008 | 1-414-398-11 | INDUCTOR | 10uH | | | | |
| L1009 | 1-414-398-11 | INDUCTOR | 10uH | | | | |
| L1010 | 1-414-398-11 | INDUCTOR | 10uH | | | | |
| L1011 | 1-414-398-11 | INDUCTOR | 10uH | | | | |
| L1012 | 1-414-398-11 | INDUCTOR | 10uH | | | | |
| L1013 | 1-414-529-21 | INDUCTOR | 100uH | | | | |
| L1014 | 1-414-529-21 | INDUCTOR | 100uH | | | | |
| L1018 | 1-414-398-11 | INDUCTOR | 10uH | | | | |
| Q502 | 8-729-402-93 | TRANSISTOR | | | | UN5214-TX | |
| Q506 | 8-729-426-31 | TRANSISTOR | | | | XP1214-TXE | |
| Q507 | 8-729-426-01 | TRANSISTOR | | | | XP1119 | |
| Q508 | 8-729-420-74 | TRANSISTOR | | | | 2SD1328-RST-TX | |
| Q509 | 8-729-420-74 | TRANSISTOR | | | | 2SD1328-RST-TX | |
| Q510 | 8-729-425-88 | TRANSISTOR | | | | XP1114-TXE | |
| Q514 | 8-729-425-18 | TRANSISTOR | | | | XN4504-TX | |
| Q515 | 8-729-425-88 | TRANSISTOR | | | | XP1114-TXE | |
| Q701 | 8-729-030-46 | TRANSISTOR | | | | XP4314-TX | |
| Q1002 | 8-729-230-63 | TRANSISTOR | | | | 2SD1819A-QRS-TX | |
| Q1003 | 8-729-230-63 | TRANSISTOR | | | | 2SD1819A-QRS-TX | |
| Q1004 | 8-729-420-24 | TRANSISTOR | | | | 2SB1424-T100-R | |
| Q1005 | 8-729-035-17 | TRANSISTOR | | | | 2SA1870TLEF | |
| Q1006 | 8-729-035-17 | TRANSISTOR | | | | 2SA1870TLEF | |
| Q1007 | 8-729-021-47 | TRANSISTOR | | | | RN4911(TE85R) | |
| Q1008 | 8-729-021-47 | TRANSISTOR | | | | RN4911(TE85R) | |
| Q1009 | 8-729-021-47 | TRANSISTOR | | | | RN4911(TE85R) | |
| Q1010 | 8-729-021-47 | TRANSISTOR | | | | RN4911(TE85R) | |
| Q1011 | 8-729-032-04 | TRANSISTOR | | | | 2SD2150-T100QRS | |
| Q1012 | 8-729-032-04 | TRANSISTOR | | | | 2SD2150-T100QRS | |
| Q1013 | 8-729-928-72 | TRANSISTOR | | | | DTA114TE-TL | |
| Q1014 | 8-729-049-50 | TRANSISTOR | | | | 2SB1424-T100-R | |
| Q1015 | 8-729-929-26 | TRANSISTOR | | | | DTC114TE-TL | |
| Q1016 | 8-729-049-50 | TRANSISTOR | | | | 2SB1424-T100-R | |
| Q1017 | 8-729-929-26 | TRANSISTOR | | | | DTC114TE-TL | |
| Q1018 | 8-729-928-72 | TRANSISTOR | | | | DTA114TE-TL | |
| | | < RESISTOR > | | | | | |
| R139 | 1-218-851-11 | METAL CHIP | 1.5K | 0.5% | 1/16W | | |
| R140 | 1-218-851-11 | METAL CHIP | 1.5K | 0.5% | 1/16W | | |
| R141 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | |
| R142 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | |
| R143 | 1-218-887-11 | METAL CHIP | 47K | 0.5% | 1/16W | | |
| R144 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | |
| R145 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | |
| R146 | 1-218-887-11 | METAL CHIP | 47K | 0.5% | 1/16W | | |
| R147 | 1-218-887-11 | METAL CHIP | 47K | 0.5% | 1/16W | | |
| R148 | 1-218-887-11 | METAL CHIP | 47K | 0.5% | 1/16W | | |
| R149 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | |
| R150 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | |
| R151 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | |
| R152 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | |
| R153 | 1-218-879-11 | METAL CHIP | 22K | 0.5% | 1/16W | | |
| R154 | 1-218-879-11 | METAL CHIP | 22K | 0.5% | 1/16W | | |
| R155 | 1-218-871-11 | METAL CHIP | 10K | 0.5% | 1/16W | | |
| R156 | 1-218-871-11 | METAL CHIP | 10K | 0.5% | 1/16W | | |
| R166 | 1-218-851-11 | METAL CHIP | 1.5K | 0.5% | 1/16W | | |
| R167 | 1-218-851-11 | METAL CHIP | 1.5K | 0.5% | 1/16W | | |
| R339 | 1-218-851-11 | METAL CHIP | 1.5K | 0.5% | 1/16W | | |
| R340 | 1-218-851-11 | METAL CHIP | 1.5K | 0.5% | 1/16W | | |
| R341 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | |
| R342 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | |
| R343 | 1-218-887-11 | METAL CHIP | 47K | 0.5% | 1/16W | | |
| R344 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | |
| R345 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | |
| R346 | 1-218-887-11 | METAL CHIP | 47K | 0.5% | 1/16W | | |
| R347 | 1-218-887-11 | METAL CHIP | 47K | 0.5% | 1/16W | | |
| R348 | 1-218-887-11 | METAL CHIP | 47K | 0.5% | 1/16W | | |

MDCT-1000

MAIN

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|-------------|-----------------|----------|--------------|-------------|-----------------|
| R349 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W | R716 | 1-218-907-11 | METAL CHIP | 330K 0.5% 1/16W |
| R350 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W | R717 | 1-218-823-11 | METAL CHIP | 100 0.5% 1/16W |
| R351 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R718 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R352 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R719 | 1-218-887-11 | METAL CHIP | 47K 0.5% 1/16W |
| R353 | 1-218-879-11 | METAL CHIP | 22K 0.5% 1/16W | R720 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R354 | 1-218-879-11 | METAL CHIP | 22K 0.5% 1/16W | R721 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R355 | 1-218-871-11 | METAL CHIP | 10K 0.5% 1/16W | R1001 | 1-218-847-11 | METAL CHIP | 1K 0.5% 1/16W |
| R356 | 1-218-871-11 | METAL CHIP | 10K 0.5% 1/16W | R1002 | 1-218-823-11 | METAL CHIP | 100 0.5% 1/16W |
| R366 | 1-218-851-11 | METAL CHIP | 1.5K 0.5% 1/16W | R1003 | 1-218-827-11 | METAL CHIP | 150 0.5% 1/16W |
| R367 | 1-218-851-11 | METAL CHIP | 1.5K 0.5% 1/16W | R1004 | 1-218-847-11 | METAL CHIP | 1K 0.5% 1/16W |
| R505 | 1-216-845-11 | METAL CHIP | 100K 5% 1/16W | R1005 | 1-218-847-11 | METAL CHIP | 1K 0.5% 1/16W |
| R506 | 1-216-845-11 | METAL CHIP | 100K 5% 1/16W | R1006 | 1-218-847-11 | METAL CHIP | 1K 0.5% 1/16W |
| R511 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W | R1007 | 1-218-847-11 | METAL CHIP | 1K 0.5% 1/16W |
| R512 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W | R1008 | 1-218-847-11 | METAL CHIP | 1K 0.5% 1/16W |
| R513 | 1-216-793-11 | RES-CHIP | 4.7 5% 1/16W | R1009 | 1-218-847-11 | METAL CHIP | 1K 0.5% 1/16W |
| R514 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R1010 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R515 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R1011 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R516 | 1-218-871-11 | METAL CHIP | 10K 0.5% 1/16W | R1012 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R517 | 1-218-823-11 | METAL CHIP | 100 0.5% 1/16W | R1013 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R518 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R1014 | 1-218-883-11 | METAL CHIP | 33K 0.5% 1/16W |
| R519 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R1015 | 1-218-871-11 | METAL CHIP | 10K 0.5% 1/16W |
| R520 | 1-218-895-11 | METAL CHIP | 100K 0.5% 1/16W | R1016 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R521 | 1-218-887-11 | METAL CHIP | 47K 0.5% 1/16W | R1017 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R522 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R1019 | 1-218-847-11 | METAL CHIP | 1K 0.5% 1/16W |
| R523 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R1020 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W |
| R525 | 1-218-887-11 | METAL CHIP | 47K 0.5% 1/16W | R1023 | 1-216-813-11 | METAL CHIP | 220 5% 1/16W |
| R526 | 1-218-871-11 | METAL CHIP | 10K 0.5% 1/16W | R1024 | 1-216-813-11 | METAL CHIP | 220 5% 1/16W |
| R527 | 1-218-871-11 | METAL CHIP | 10K 0.5% 1/16W | R1025 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W |
| R530 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | R1026 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W |
| R531 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R1027 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W |
| R556 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | R1028 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R557 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | R1029 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W |
| R558 | 1-218-863-11 | METAL CHIP | 4.7K 0.5% 1/16W | R1030 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W |
| R559 | 1-218-895-11 | METAL CHIP | 100K 0.5% 1/16W | R1031 | 1-216-805-11 | METAL CHIP | 47 5% 1/16W |
| R560 | 1-218-863-11 | METAL CHIP | 4.7K 0.5% 1/16W | R1032 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W |
| R561 | 1-218-895-11 | METAL CHIP | 100K 0.5% 1/16W | R1033 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W |
| R562 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W | R1034 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R563 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W | R1035 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R564 | 1-211-977-11 | METAL CHIP | 22 0.5% 1/16W | R1036 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R565 | 1-211-977-11 | METAL CHIP | 22 0.5% 1/16W | R1037 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R566 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | R1038 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R567 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | R1039 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R593 | 1-216-837-11 | METAL CHIP | 22K 5% 1/16W | R1040 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R594 | 1-218-879-11 | METAL CHIP | 22K 0.5% 1/16W | R1041 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R595 | 1-218-887-11 | METAL CHIP | 47K 0.5% 1/16W | R1042 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R701 | 1-216-803-11 | METAL CHIP | 33 5% 1/16W | R1059 | 1-216-857-11 | METAL CHIP | 1M 5% 1/16W |
| R702 | 1-216-803-11 | METAL CHIP | 33 5% 1/16W | R1060 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R703 | 1-216-803-11 | METAL CHIP | 33 5% 1/16W | R1061 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R704 | 1-216-803-11 | METAL CHIP | 33 5% 1/16W | R1062 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R705 | 1-216-803-11 | METAL CHIP | 33 5% 1/16W | R1063 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R706 | 1-216-803-11 | METAL CHIP | 33 5% 1/16W | R1064 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R707 | 1-216-803-11 | METAL CHIP | 33 5% 1/16W | R1065 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R708 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W | R1066 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R709 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W | R1067 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R710 | 1-218-895-11 | METAL CHIP | 100K 0.5% 1/16W | R1068 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R711 | 1-218-895-11 | METAL CHIP | 100K 0.5% 1/16W | R1069 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R712 | 1-218-895-11 | METAL CHIP | 100K 0.5% 1/16W | R1070 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R713 | 1-218-895-11 | METAL CHIP | 100K 0.5% 1/16W | R1071 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R714 | 1-218-899-11 | METAL CHIP | 150K 0.5% 1/16W | R1072 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R715 | 1-218-823-11 | METAL CHIP | 100 0.5% 1/16W | R1073 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |

| Ref. No. | Part No. | Description | Quantity | Unit | Material | Remarks | Ref. No. | Part No. | Description | Quantity | Unit | Material | Remarks |
|----------|--------------|-------------|----------|------|----------|---------|----------|--------------|-------------|----------|------|----------|---------|
| R1074 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1162 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | |
| R1075 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1163 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | |
| R1076 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1164 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | |
| R1077 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1165 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | |
| R1078 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1166 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1079 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1167 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1080 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | R1169 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1081 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | R1170 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1082 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W | | R1174 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1083 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/16W | | R1176 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1084 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | R1179 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1085 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | R1181 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1086 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | R1182 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | |
| R1087 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | R1183 | 1-220-250-11 | RES-CHIP | 10 | 5% | 1/2W | |
| R1088 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | R1184 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | |
| R1089 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | R1185 | 1-220-250-11 | RES-CHIP | 10 | 5% | 1/2W | |
| R1090 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | R1186 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W | |
| R1091 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/16W | | R1187 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W | |
| R1092 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W | | R1688 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W | |
| R1093 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W | | R1689 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W | |
| R1094 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | R1690 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | |
| R1095 | 1-216-847-11 | METAL CHIP | 150K | 5% | 1/16W | | R1691 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | |
| R1097 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W | | R1692 | 1-216-797-11 | METAL CHIP | 10 | 5% | 1/16W | |
| R1098 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W | | R1693 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | |
| R1099 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/16W | | R1694 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | |
| R1100 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W | | R1695 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | |
| R1101 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/16W | | R1696 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | |
| R1102 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W | | R1697 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1103 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W | | R1698 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1104 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W | | R1699 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1105 | 1-218-859-11 | METAL CHIP | 3.3K | 0.5% | 1/16W | | R1700 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1106 | 1-218-855-11 | METAL CHIP | 2.2K | 0.5% | 1/16W | | R1701 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1107 | 1-218-847-11 | METAL CHIP | 1K | 0.5% | 1/16W | | R1702 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1108 | 1-218-863-11 | METAL CHIP | 4.7K | 0.5% | 1/16W | | R1703 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1109 | 1-218-859-11 | METAL CHIP | 3.3K | 0.5% | 1/16W | | R1704 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1110 | 1-218-847-11 | METAL CHIP | 1K | 0.5% | 1/16W | | R1705 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1111 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1706 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1112 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1707 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | |
| R1115 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1708 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | |
| R1118 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1709 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | |
| R1119 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1710 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | |
| R1122 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1711 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | |
| R1124 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1712 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | |
| R1127 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1713 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | |
| R1145 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | R1714 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | |
| R1147 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | R1715 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | |
| R1148 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | R1716 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | |
| R1149 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | R1717 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | |
| R1150 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | R1718 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | |
| R1151 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | R1719 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | |
| R1152 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | R1720 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | |
| R1153 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/16W | | R1721 | 1-218-887-11 | METAL CHIP | 47K | 0.5% | 1/16W | |
| R1154 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/16W | | R1722 | 1-218-895-11 | METAL CHIP | 100K | 0.5% | 1/16W | |
| R1155 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/16W | | R1723 | 1-218-839-11 | METAL CHIP | 470 | 0.5% | 1/16W | |
| R1156 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1724 | 1-218-835-11 | METAL CHIP | 330 | 0.5% | 1/16W | |
| R1157 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1725 | 1-218-839-11 | METAL CHIP | 470 | 0.5% | 1/16W | |
| R1158 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1726 | 1-218-835-11 | METAL CHIP | 330 | 0.5% | 1/16W | |
| R1159 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | R1727 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/16W | |
| R1160 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | | | | | | | |
| R1161 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | | | | | | | | |

MDCT-1000

MAIN **MD**

| Ref. No. | Part No. | Description | Remarks |
|----------|--------------|-------------------------|-------------|
| | | < VARISTOR > | |
| VDR101 | 1-801-862-11 | VARISTOR, CHIP | |
| VDR102 | 1-801-862-11 | VARISTOR, CHIP | |
| VDR301 | 1-801-862-11 | VARISTOR, CHIP | |
| VDR302 | 1-801-862-11 | VARISTOR, CHIP | |
| VDR1001 | 1-801-863-21 | VARISTOR, CHIP | |
| VDR1002 | 1-801-862-11 | VARISTOR, CHIP | |
| VDR1003 | 1-801-862-11 | VARISTOR, CHIP | |
| VDR1004 | 1-801-862-11 | VARISTOR, CHIP | |
| | | < VIBRATOR > | |
| X1002 | 1-577-076-11 | VIBRATOR, CRYSTAL 16MHz | |
| ***** | | | |
| * | A-3062-214-A | MD BOARD, COMPLETE | ***** |
| | | < CAPACITOR > | |
| C2 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C3 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C4 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C5 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C6 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C7 | 1-162-915-11 | CERAMIC CHIP 10PF | 0.5PF 50V |
| C8 | 1-162-915-11 | CERAMIC CHIP 10PF | 0.5PF 50V |
| C9 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C10 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C11 | 1-113-642-11 | TANTAL. CHIP 47uF | 20.00% 10V |
| C12 | 1-111-253-11 | TANTAL. CHIP 100uF | 20.00% 6.3V |
| C13 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C14 | 1-125-891-11 | CERAMIC CHIP 0.47uF | 10.00% 10V |
| C15 | 1-113-642-11 | TANTAL. CHIP 47uF | 20.00% 10V |
| C16 | 1-104-852-11 | TANTAL. CHIP 22uF | 20.00% 10V |
| C17 | 1-125-891-11 | CERAMIC CHIP 0.47uF | 10.00% 10V |
| C18 | 1-164-677-11 | CERAMIC CHIP 0.033uF | 10.00% 16V |
| C19 | 1-104-852-11 | TANTAL. CHIP 22uF | 20.00% 10V |
| C20 | 1-125-891-11 | CERAMIC CHIP 0.47uF | 10.00% 10V |
| C21 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C22 | 1-162-927-11 | CERAMIC CHIP 100PF | 5% 50V |
| C23 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C24 | 1-162-908-11 | CERAMIC CHIP 3PF | 0.25PF 50V |
| C25 | 1-162-908-11 | CERAMIC CHIP 3PF | 0.25PF 50V |
| C26 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C27 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C28 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C34 | 1-110-563-11 | CERAMIC CHIP 0.068uF | 10.00% 16V |
| C35 | 1-162-968-11 | CERAMIC CHIP 0.0047uF | 10% 50V |
| C39 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C40 | 1-104-852-11 | TANTAL. CHIP 22uF | 20.00% 10V |
| C41 | 1-104-852-11 | TANTAL. CHIP 22uF | 20.00% 10V |
| C42 | 1-104-852-11 | TANTAL. CHIP 22uF | 20.00% 10V |
| C43 | 1-165-176-11 | CERAMIC CHIP 0.047uF | 10.00% 16V |
| C44 | 1-164-227-11 | CERAMIC CHIP 0.022uF | 10% 25V |
| C45 | 1-162-968-11 | CERAMIC CHIP 0.0047uF | 10% 50V |
| C47 | 1-164-227-11 | CERAMIC CHIP 0.022uF | 10% 25V |
| C48 | 1-162-969-11 | CERAMIC CHIP 0.0068uF | 10% 25V |
| C49 | 1-162-964-11 | CERAMIC CHIP 0.001uF | 10% 50V |
| C54 | 1-113-682-11 | TANTAL. CHIP 33uF | 20.00% 10V |

| Ref. No. | Part No. | Description | Remarks |
|----------|--------------|-----------------------|------------|
| C55 | 1-135-213-21 | TANTAL. CHIP 3.3uF | 20.00% 25V |
| C56 | 1-135-213-21 | TANTAL. CHIP 3.3uF | 20.00% 25V |
| C57 | 1-104-852-11 | TANTAL. CHIP 22uF | 20.00% 10V |
| C58 | 1-164-337-11 | CERAMIC CHIP 2.2uF | 16V |
| C59 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C60 | 1-135-213-21 | TANTAL. CHIP 3.3uF | 20.00% 25V |
| C61 | 1-104-852-11 | TANTAL. CHIP 22uF | 20.00% 10V |
| C62 | 1-135-213-21 | TANTAL. CHIP 3.3uF | 20.00% 25V |
| C65 | 1-125-837-11 | CERAMIC CHIP 1uF | 10% 6.3V |
| C66 | 1-113-642-11 | TANTAL. CHIP 47uF | 20.00% 10V |
| C67 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C68 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C69 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C72 | 1-125-837-11 | CERAMIC CHIP 1uF | 10% 6.3V |
| C73 | 1-162-908-11 | CERAMIC CHIP 3PF | 0.25PF 50V |
| C74 | 1-162-908-11 | CERAMIC CHIP 3PF | 0.25PF 50V |
| C75 | 1-104-852-11 | TANTAL. CHIP 22uF | 20.00% 10V |
| C76 | 1-165-176-11 | CERAMIC CHIP 0.047uF | 10.00% 16V |
| C77 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C78 | 1-164-315-11 | CERAMIC CHIP 470PF | 5.00% 50V |
| C79 | 1-162-921-11 | CERAMIC CHIP 33PF | 5% 50V |
| C80 | 1-164-227-11 | CERAMIC CHIP 0.022uF | 10% 25V |
| C81 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C82 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C83 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C84 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C85 | 1-113-642-11 | TANTAL. CHIP 47uF | 20.00% 10V |
| C86 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C87 | 1-115-467-11 | CERAMIC CHIP 0.22uF | 10.00% 10V |
| C88 | 1-162-969-11 | CERAMIC CHIP 0.0068uF | 10% 25V |
| C89 | 1-165-176-11 | CERAMIC CHIP 0.047uF | 10.00% 16V |
| C90 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C91 | 1-162-969-11 | CERAMIC CHIP 0.0068uF | 10% 25V |
| C94 | 1-104-852-11 | TANTAL. CHIP 22uF | 20.00% 10V |
| C95 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C96 | 1-164-230-11 | CERAMIC CHIP 220PF | 5.00% 50V |
| C98 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C99 | 1-162-921-11 | CERAMIC CHIP 33PF | 5% 50V |
| C100 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C103 | 1-162-921-11 | CERAMIC CHIP 33PF | 5% 50V |
| C105 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C106 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C107 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C108 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C109 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C110 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C111 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C112 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C117 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C119 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C120 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C121 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C122 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C123 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C124 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C126 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C127 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C128 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C129 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|------------------------------|---------|----------|--------------|----------------------------|---------|
| | | < CONNECTOR > | | | | < TRANSISTOR > | |
| CN1 | 1-573-931-11 | CONNECTOR, FFC/FPC (ZIF) 22P | | Q1 | 8-729-101-07 | TRANSISTOR 2SB798-T1DL | |
| * CN2 | 1-793-143-11 | CONNECTOR, FFC/FPC 17P | | Q3 | 8-729-028-91 | TRANSISTOR DTA144EUA-T106 | |
| * CN3 | 1-793-230-21 | CONNECTOR, FFC/FPC 4P | | Q4 | 8-729-101-07 | TRANSISTOR 2SB798-T1DL | |
| CN5 | 1-766-654-21 | CONNECTOR, FFC/FPC 18P | | Q5 | 8-729-101-07 | TRANSISTOR 2SB798-T1DL | |
| | | < DIODE > | | Q6 | 8-729-904-60 | TRANSISTOR DTB113ZK-T-146 | |
| D1 | 8-719-977-00 | DIODE DTZ-TT11-5.1C | | Q7 | 8-729-029-14 | TRANSISTOR DTC144EUA-T106 | |
| D3 | 8-719-988-61 | DIODE 1SS355TE-17 | | Q8 | 8-729-230-63 | TRANSISTOR 2SC4116YG-TE85L | |
| D6 | 8-719-049-09 | DIODE 1SS367-T3SONY | | Q9 | 8-729-927-59 | TRANSISTOR UMZ1-TL | |
| D7 | 8-719-033-60 | DIODE F1P2STP | | Q10 | 8-729-101-07 | TRANSISTOR 2SB798-T1DL | |
| D8 | 8-719-033-60 | DIODE F1P2STP | | Q11 | 8-729-017-65 | TRANSISTOR 2SK1764KYTR | |
| D9 | 8-719-033-60 | DIODE F1P2STP | | Q12 | 8-729-017-65 | TRANSISTOR 2SK1764KYTR | |
| D10 | 8-719-033-60 | DIODE F1P2STP | | Q13 | 8-729-017-65 | TRANSISTOR 2SK1764KYTR | |
| | | < IC > | | Q14 | 8-729-017-65 | TRANSISTOR 2SK1764KYTR | |
| IC1 | 8-759-460-01 | IC AT29LV512-20TC-PDF | | Q15 | 8-729-028-73 | TRANSISTOR DTA114EUA-T106 | |
| IC2 | 8-759-324-27 | IC HD6433040T00X | | Q16 | 8-729-029-14 | TRANSISTOR DTC144EUA-T106 | |
| IC3 | 8-759-252-57 | IC S-2900AUP-T1 | | | | < RESISTOR > | |
| IC4 | 8-759-590-46 | IC XC62EP3502MR | | R5 | 1-216-817-11 | METAL CHIP 470 5% 1/16W | |
| IC5 | 8-759-196-96 | IC TC7SH08FU-TE85R | | R7 | 1-216-845-11 | METAL CHIP 100K 5% 1/16W | |
| IC6 | 8-759-574-62 | IC XC61AN4002MR | | R8 | 1-216-837-11 | METAL CHIP 22K 5% 1/16W | |
| IC9 | 8-759-370-11 | IC NJM2100V-TE2 | | R9 | 1-218-704-11 | METAL CHIP 3.3K 0.5% 1/16W | |
| IC10 | 8-759-370-11 | IC NJM2100V-TE2 | | R10 | 1-218-724-11 | METAL CHIP 22K 0.5% 1/16W | |
| IC11 | 8-759-196-96 | IC TC7SH08FU-TE85R | | R11 | 1-218-700-11 | METAL CHIP 2.2K 0.5% 1/16W | |
| IC12 | 8-759-271-86 | IC TC7SH04FU-TE85R | | R12 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| IC13 | 8-759-196-96 | IC TC7SH08FU-TE85R | | R14 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | |
| IC14 | 8-759-196-93 | IC TC7SH00FU-TE85R | | R16 | 1-216-827-11 | METAL CHIP 3.3K 5% 1/16W | |
| IC15 | 8-759-271-86 | IC TC7SH04FU-TE85R | | R17 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| IC17 | 8-759-082-61 | IC TC4W53FU(TE12R) | | R18 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| IC18 | 8-759-082-61 | IC TC4W53FU(TE12R) | | R19 | 1-216-845-11 | METAL CHIP 100K 5% 1/16W | |
| IC19 | 8-759-577-56 | IC XC62EP5002MR | | R20 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| IC20 | 8-759-196-96 | IC TC7SH08FU-TE85R | | R21 | 1-216-821-11 | METAL CHIP 1K 5% 1/16W | |
| IC21 | 8-752-074-77 | IC CXA2523R-T4 | | R22 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| IC22 | 8-759-370-11 | IC NJM2100V-TE2 | | R23 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| IC23 | 8-759-370-11 | IC NJM2100V-TE2 | | R32 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| IC24 | 8-759-710-79 | IC NJM2107F-TE1 | | R33 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| IC26 | 8-759-370-11 | IC NJM2100V-TE2 | | R34 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| IC28 | 8-759-523-96 | IC TC74VHC86FT(EL) | | R35 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| IC29 | 8-759-490-41 | IC TC74VHCT541AFT(EL) | | R37 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| IC30 | 8-759-590-46 | IC XC62EP3502MR | | R40 | 1-216-809-11 | METAL CHIP 100 5% 1/16W | |
| IC33 | 8-759-196-96 | IC TC7SH08FU-TE85R | | R42 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| IC34 | 8-759-191-57 | IC LM339PW-ELL2000 | | R45 | 1-218-708-11 | METAL CHIP 4.7K 0.5% 1/16W | |
| IC35 | 8-759-710-79 | IC NJM2107F-TE1 | | R46 | 1-218-712-11 | METAL CHIP 6.8K 0.5% 1/16W | |
| IC36 | 8-759-082-61 | IC TC4W53FU(TE12R) | | R51 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| IC37 | 8-759-442-80 | IC MPC17A38ZVMEL | | R58 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| IC38 | 8-752-382-23 | IC CXD2535CR-1 | | R59 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| IC39 | 8-759-569-24 | IC XC62FP2802MR | | R60 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| IC40 | 8-759-196-96 | IC TC7SH08FU-TE85R | | R61 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| | | < COIL > | | R62 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| L1 | 1-414-398-11 | INDUCTOR 10uH | | R63 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| L2 | 1-414-398-11 | INDUCTOR 10uH | | R64 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| L3 | 1-410-389-31 | INDUCTOR CHIP 47uH | | R65 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| L4 | 1-410-389-31 | INDUCTOR CHIP 47uH | | R66 | 1-216-821-11 | METAL CHIP 1K 5% 1/16W | |
| L5 | 1-414-407-41 | INDUCTOR 330uH | | R67 | 1-216-821-11 | METAL CHIP 1K 5% 1/16W | |
| L6 | 1-410-389-31 | INDUCTOR CHIP 47uH | | R71 | 1-218-704-11 | METAL CHIP 3.3K 0.5% 1/16W | |
| L7 | 1-410-389-31 | INDUCTOR CHIP 47uH | | R72 | 1-218-692-11 | METAL CHIP 1K 0.5% 1/16W | |
| | | | | R78 | 1-216-853-11 | METAL CHIP 470K 5% 1/16W | |
| | | | | R79 | 1-216-825-11 | METAL CHIP 2.2K 5% 1/16W | |

MDCT-1000

MD

| Ref. No. | Part No. | Description | Quantity | Unit Price | Remarks | Ref. No. | Part No. | Description | Quantity | Unit Price | Remarks |
|----------|--------------|-------------|----------|------------|---------|----------|--------------|---------------------------|----------|------------|--------------|
| R80 | 1-218-708-11 | METAL CHIP | 4.7K | 0.5% | 1/16W | R146 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R81 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/16W | R147 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/16W |
| R82 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | R148 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R84 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/16W | R149 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R85 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W | R150 | 1-216-843-11 | METAL CHIP | 68K | 5% | 1/16W |
| R86 | 1-218-652-11 | METAL CHIP | 22 | 0.5% | 1/16W | R151 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W |
| R87 | 1-218-668-11 | METAL CHIP | 100 | 0.5% | 1/16W | R152 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R88 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | R153 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W |
| R89 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W | R154 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R90 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/16W | R155 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R91 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W | R156 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R92 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | R157 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R93 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | R158 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R94 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | R159 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R95 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/16W | R160 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R96 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/16W | R161 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R97 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | R162 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R100 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R168 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W |
| R101 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R169 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R102 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R170 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/16W |
| R103 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R171 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R104 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R172 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R106 | 1-218-684-11 | METAL CHIP | 470 | 0.5% | 1/16W | R173 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R107 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W | R174 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R108 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W | R175 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R109 | 1-218-708-11 | METAL CHIP | 4.7K | 0.5% | 1/16W | R176 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W |
| R110 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W | R177 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R111 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W | R178 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R112 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R179 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R113 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | R180 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W |
| R114 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W | R182 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R115 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R183 | 1-216-831-11 | METAL CHIP | 6.8K | 5% | 1/16W |
| R116 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | R184 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W |
| R117 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W | R185 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R118 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R186 | 1-216-831-11 | METAL CHIP | 6.8K | 5% | 1/16W |
| R119 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | R189 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R120 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W | R190 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/16W |
| R121 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R191 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W |
| R122 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | R192 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R123 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W | R193 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R124 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W | R194 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/16W |
| R125 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W | R196 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R126 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W | R201 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R127 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W | R202 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W |
| R128 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W | R203 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R131 | 1-216-831-11 | METAL CHIP | 6.8K | 5% | 1/16W | R205 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R132 | 1-216-831-11 | METAL CHIP | 6.8K | 5% | 1/16W | R206 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R133 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W | R207 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R134 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W | | | | | | |
| R135 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | | | | | < VIBRATOR > |
| R136 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | X1 | 1-760-469-11 | VIBRATOR, CERAMIC 25.4MHZ | | | |
| R137 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | X2 | 1-781-515-11 | VIBRATOR, CRYSTAL 10MHZ | | | |
| R138 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | | | | | | ***** |
| R139 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | | | | | | |
| R140 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | | | | | |
| R141 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | | | | | |
| R142 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | | | | | |
| R143 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | | | | | |
| R144 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W | | | | | | |
| R145 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | | | | | |

SWITCH

VOLUME

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|--|--------------------|--|--------------|--|---------|
| * | 1-680-432-11 | SWITCH BOARD ***** | | * | 1-680-424-11 | VOLUME BOARD ***** | |
| | | < CAPACITOR > | | | | < CONNECTOR > | |
| C5001 | 1-162-971-11 | CERAMIC CHIP | 0.001uF 10.00% 50V | CN6001 | 1-785-125-11 | CONNECTOR 6P | |
| C5002 | 1-162-971-11 | CERAMIC CHIP | 0.001uF 10.00% 50V | * CN6002 | 1-691-591-11 | PIN, CONNECTOR (1.5MM) (SMD)8P | |
| C5004 | 1-162-971-11 | CERAMIC CHIP | 0.001uF 10.00% 50V | | | < VARIABLE RESISTOR > | |
| C5005 | 1-162-971-11 | CERAMIC CHIP | 0.001uF 10.00% 50V | RV6001 | 1-227-316-11 | RES, VAR (LCD CONTRAST) | |
| C5007 | 1-162-971-11 | CERAMIC CHIP | 0.001uF 10.00% 50V | RV6002 | 1-227-315-11 | RES, VAR (MONITOR VOL) | |
| C5009 | 1-162-971-11 | CERAMIC CHIP | 0.001uF 10.00% 50V | ***** | | | |
| C5011 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | | | MISCELLANEOUS | |
| C5015 | 1-125-766-11 | ELECT | 10uF 20.00% 10V | | | ***** | |
| C5020 | 1-162-971-11 | CERAMIC CHIP | 0.001uF 10.00% 50V | * 52 | 1-757-620-11 | CABLE, FLEXIBLE FLAT (90mm) | |
| C5021 | 1-162-971-11 | CERAMIC CHIP | 0.001uF 10.00% 50V | 101 | 1-476-469-11 | LIGHT UNIT, BACK | |
| C5022 | 1-162-971-11 | CERAMIC CHIP | 0.001uF 10.00% 50V | 102 | 1-803-019-11 | DISPLAY PANEL, LIQUID CRYSTAL | |
| C5023 | 1-162-971-11 | CERAMIC CHIP | 0.001uF 10.00% 50V | 109 | 1-757-623-11 | CABLE, FLEXIBLE FLAT (70mm) | |
| C5024 | 1-162-971-11 | CERAMIC CHIP | 0.001uF 10.00% 50V | 112 | 1-680-433-11 | B-LIGHT FLEXIBLE BOARD | |
| | | < CONNECTOR > | | * 114 | 1-757-622-11 | CABLE, FLEXIBLE FLAT (295mm) | |
| CN5001 | 1-774-666-11 | CONNECTOR, FFC/FPC 30P | | 260 | 1-777-945-11 | WIRE, FLAT TYPE (18 CORE) | |
| | | < COIL > | | △ 281 | 8-583-027-03 | OPTICAL PICK-UP KMS-250A | |
| L5001 | 1-414-398-11 | INDUCTOR | 10uH | SP101 | 1-504-888-12 | SPEAKER (5.0cm) | |
| | | < RESISTOR > | | M901 | A-3174-053-A | MOTOR, SPINDLE CHASSIS ASSY (SPINDLE) | |
| R5001 | 1-218-823-11 | METAL CHIP | 100 0.5% 1/16W | M902 | 1-698-454-12 | MOTOR, STEPPING (F LA15-2002-A) (SLED) | |
| R5002 | 1-218-827-11 | METAL CHIP | 150 0.5% 1/16W | M903 | 1-698-455-11 | MOTOR, DC GEARED (12C-082G) (LOADING) | |
| R5003 | 1-218-831-11 | METAL CHIP | 220 0.5% 1/16W | HR901 | A-3174-011-A | REC/PB HEAD ASSY | |
| R5004 | 1-218-835-11 | METAL CHIP | 330 0.5% 1/16W | | | ACCESSORIES & PACKING MATERIALS | |
| R5021 | 1-218-823-11 | METAL CHIP | 100 0.5% 1/16W | | | ***** | |
| R5042 | 1-218-823-11 | METAL CHIP | 100 0.5% 1/16W | △ | 1-418-811-11 | ADAPTOR, AC (AC-MDCC120) | |
| R5043 | 1-218-827-11 | METAL CHIP | 150 0.5% 1/16W | △ | 1-757-495-11 | CORD, POWER (SET) | |
| R5044 | 1-218-831-11 | METAL CHIP | 220 0.5% 1/16W | | 3-230-570-11 | MANUAL, INSTRUCTION (ENGLISH) | |
| R5045 | 1-218-835-11 | METAL CHIP | 330 0.5% 1/16W | | | ***** | |
| R5046 | 1-218-839-11 | METAL CHIP | 470 0.5% 1/16W | | | HARDWARE LIST | |
| R5068 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | | | ***** | |
| R5069 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | #1 | 7-685-133-19 | SCREW +P 2.6X6 TYPE2 SLIT | |
| | | < SWITCH > | | #2 | 7-682-947-01 | SCREW +PSW 3X6 | |
| S5001 | 1-786-095-11 | SWITCH, TACTILE (STOP) | | #3 | 7-682-647-09 | SCREW +PS 3X6 | |
| S5003 | 1-786-095-11 | SWITCH, TACTILE (PLAY/PAUSE) | | #5 | 7-624-200-01 | NUT, PUSH 1.5 | |
| S5004 | 1-786-095-11 | SWITCH, TACTILE (REW/BS) | | #6 | 7-628-253-35 | SCREW +PS 2X8 | |
| S5005 | 1-786-095-11 | SWITCH, TACTILE (FF/FS) | | #7 | 7-682-948-09 | SCREW +PSW 3X8 | |
| S5016 | 1-554-088-00 | SWITCH, KEY BOARD (EJECT) | | #8 | 7-682-648-09 | SCREW +PS 3X8 | |
| S5032 | 1-786-095-11 | SWITCH, TACTILE (FUNCTION) | | #12 | 7-627-000-00 | SCREW, PRECISION +P1.7X2.2TYPE3 | |
| S5033 | 1-786-095-11 | SWITCH, TACTILE (UP) | | #13 | 7-623-505-01 | LUG, 2 | |
| S5034 | 1-786-095-11 | SWITCH, TACTILE (DOWN) | | | | | |
| S5035 | 1-786-095-11 | SWITCH, TACTILE (DISP MODE) | | <div style="border: 1px solid black; padding: 5px;"> The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified. </div> | | | |
| S5036 | 1-786-095-11 | SWITCH, TACTILE (LEFT) | | | | | |
| S5037 | 1-786-095-11 | SWITCH, TACTILE (RIGHT) | | | | | |
| S5038 | 1-786-095-11 | SWITCH, TACTILE (ENTER) | | | | | |
| S5041 | 1-476-470-11 | ENCODER (ROTARY) (INDEX SEARCH/SELECT) | | | | | |
| S5042 | 1-570-707-21 | SWITCH, SLIDECH (STANDBY) | | | | | |
