MDCC-2000

SERVICE MANUAL

US Model

Ver 1.1 2001. 07

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Model Name Using Similar Mechanism	NEW
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 µW
(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 1800 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)

Input
MIC: Canon XLR-3-31 type 0.44 mV (-65 dB)
LINE IN 1-4: mini jack 0.49 V (-4 dB)

Output
EAR (minijack)
for 8–300 Ω earphones
LINE OUT 1,2 (minijack) 0.22 V (-11 dB) load inpedance 47 kΩ
ADA (minijack) 0.22 V (-11 dB) load inpedance 10 kΩ
PA (minijack) 0.22 V (-11 dB) load inpedance 47 kΩ
PC (9 pin D-sub)
DISPLAY (modular)

Other connector
CONTROL UNIT connector
REMOTE jack

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)
(12⅝ x 11⅛ x 4¾ inches)
including projecting parts and controls

Mass
Approx. 4.5 kg (9 lb 15 oz)

Accessories supplied
AC power adaptor (1)
AC power cord (1)
Sony CR2032 lithium battery (1)
MiniDisc (2)

Design and specifications are subject to change without notice.

MD CONFER-CORDER

9-873-111-12
2001G1600-1

Sony Corporation
Personal Audio Company
Shinagawa Tec Service Manual Production Group

SONY®

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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 ⚠ OR DOTTED LINE WITH MARK ⚠ 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.

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

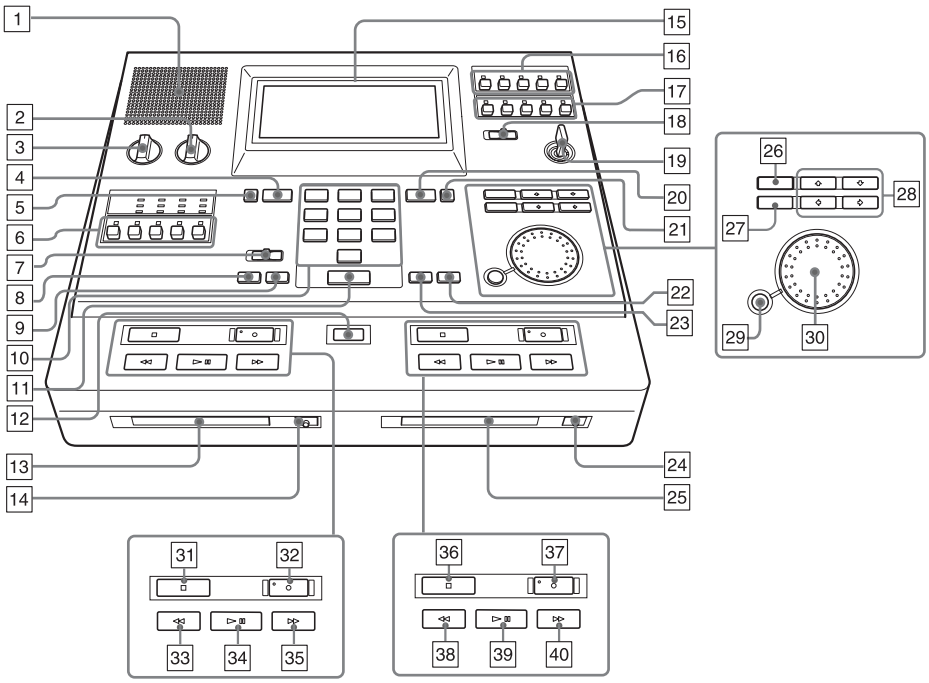
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

SECTION 1
GENERAL

This section is extracted from instruction manual.

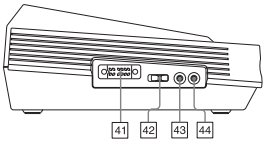
Location and Function of Controls

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



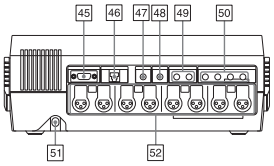
1 Built-in speaker
2 LCD CONTRAST control
Adjusts the contrast of the display.
3 MONITOR VOL control
4 DECK A button (17, 18)
5 DISPLAY MODE A button (21)
6 MONITOR select buttons (ALL/1/2/3/4)
7 SEARCH selector (17, 18)
(INDEX SEARCH/TIME SEARCH)
8 POINT SEARCH·POINT button (deck A) (20)
9 POINT SEARCH·RESET button (deck A) (20)
10 Number buttons
11 SEARCH button (17, 18)
12 INDEX button (14)
13 MD insertion slot (deck A)
14 ⏏ EJECT button (deck A)
15 LCD display
16 LINE OUT 1 select buttons (ALL/1/2/3/4) (31)
17 LINE OUT 2 select buttons (ALL/1/2/3/4) (31)
18 PA/ADA selector (OFF/ON [ADA/PA]) (30)
Switches the output to the PA/ADA jacks on or off.
19 STANDBY switch
20 DECK B button (17, 18)
21 DISPLAY MODE B button (21)
22 POINT SEARCH·RESET button (deck B) (20)
23 POINT SEARCH·POINT button (deck B) (20)
24 ⏏ EJECT button (deck B)
25 MD insertion slot (deck B)
26 FUNCTION button
27 DELETE button
28 Arrow buttons
29 ENTER button
30 Jog dial
31 ■ STOP button (deck A)
32 ● REC button (deck A)
33 ◀◀ REW/BS button (deck A)
34 ▶II PLAY/PAUSE button (deck A)
35 ▶▶ FF/FS button (deck A)
36 ■ STOP button (deck B)
37 ● REC button (deck B)
38 ◀◀ REW/BS button (deck B)
39 ▶II PLAY/PAUSE button (deck B)
40 ▶▶ FF/FS button (deck B)

Left side



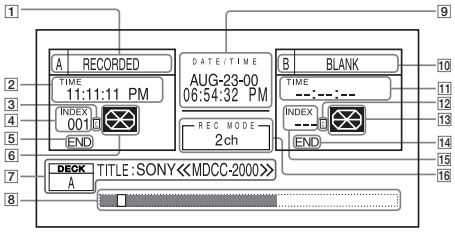
41 CONTROL UNIT connector (32)
42 TRANSCRIBE selector (33)
43 REMOTE jack (15)
44 EAR jack (16)

Rear



45 PC connector (RS-232C type)
46 DISPLAY connector
Used for connection of an external counter unit.
47 ADA jack
Allows the unit to be connected to a separately purchased amplifier system.
48 PA (public address) jack (30)
49 LINE OUT jacks
50 LINE IN jacks
51 DC IN 12V
52 Microphone connectors (Canon XLR-3-31 type)

Display Window (Information screen)

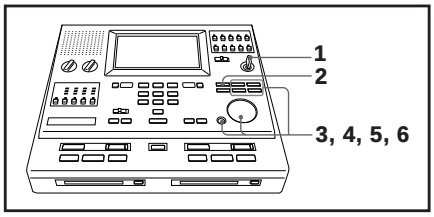


1 A: display (deck A)
Indicates the disc inserted in deck A or the status of deck A as follows:
BLANK: a blank disc
NO DISC: no disc
PB ONLY: a commercially available recorded disc (for playback only)
PROTECTED: a protected disc (3)
RECORDED: a recorded disc
2 TIME display (deck A)
Indicates the recorded time at the current location for each index item. It blinks during time search. (18)
3 ©(copied) display (deck A)
Indicates that a disc digitally copied with the Copy function is inserted. (26)
4 INDEX counter (deck A)
Lights up when a disc is inserted.
Blinks during an index search. (17)
5 END display (deck A)
This shows the end of the disc.
6 Disc status display (deck A)
Indicates the status of the disc with pictures.
7 DECK A/DECK B display
Indicates various data by characters and various error messages. (38)
8 Disc position display
Indicates the current playback/recording 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.
9 DATE/TIME display
Indicates the current date and time.
10 B: display (deck B)
Indicates the same contents as deck A.
11 TIME display (deck B)
12 ©(copied) display (deck B)
13 Disc status display (deck B)
14 END display (deck B)
15 INDEX counter (deck B)
16 REC MODE display
Indicates the recording mode (2ch/4ch) currently selected.

Setting the Date and Time

To record the date and time etc. on MiniDiscs when you record, be sure to set the Date and Time.

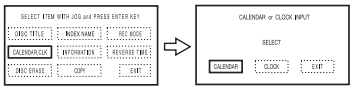
Setting the Date



1 **Insert the key and set it to ON.**
You will see the initial screen in a few seconds.

2 **Press FUNCTION.**

3 **Select CALENDAR,CLK using the jog dial or the arrow buttons, and press ENTER.**
You will see the CALENDAR or CLOCK INPUT screen.



4 **Select CALENDAR using the jog dial or the arrow buttons, and press ENTER.**
You will see the SET MONTH (mmm) and DAY (dd) and YEAR (yy) screen with the name of a month blinking.

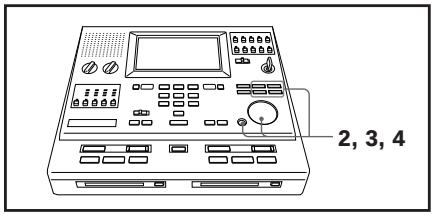
blink

5 **Set the month using the jog dial or ⇧/⇩ buttons, and press ENTER.**
You will see "01" of the day blinking.

6 **Set the day and the year in the same way as step 5.**
When the year is set, the display will return to the information screen.

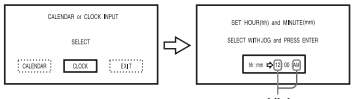
Note
You cannot use the ⇦/⇨ buttons when setting the month, day and year.

Setting the Time



1 **Carry out steps 2 and 3 of "Setting the Date".**
You will see the CALENDER or CLOCK INPUT screen.

2 **Select CLOCK using the jog dial or the arrow buttons, and press ENTER.**
You will see the SET HOUR (hh) and MINUTE (mm) screen with the hours and AM/PM blinking.



blink

3 **Set the hour using the jog dial or ⇧/⇩ buttons, and press ENTER.**
You will see the minutes blinking.

4 **Set the minutes in the same way as step 3.**
The display will return to the information screen and the clock will start.

Note
You cannot use the ⇦/⇨ buttons when setting the hour and minute.

SECTION 2
DISASSEMBLY

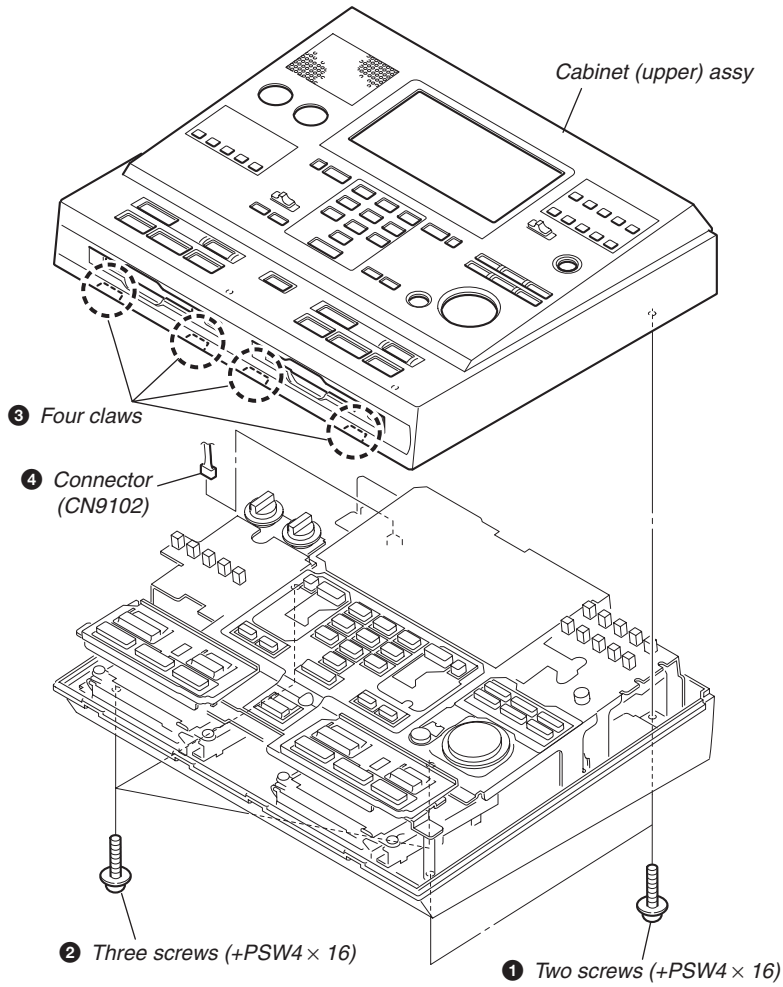
• The equipment can be removed using the following procedure.

• Disassemble the unit in the order as shown below.

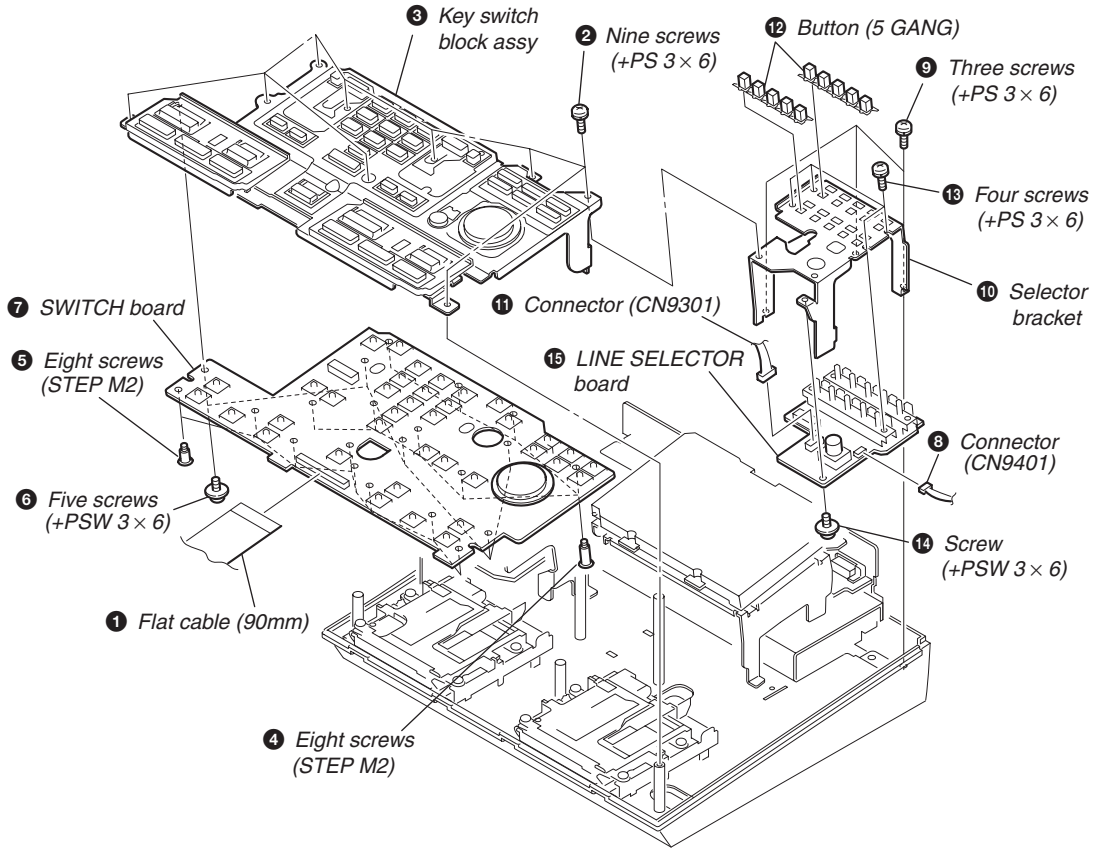
Set → *Cabinet (upper) section* → *Switch section* → *LCD section* → *I/O section* → *Door* → *MD board*
Main board → *Connector section*
Volume section
→ *Base unit section* → *BUM-F1 board* → *REC/PB head assy (HR901) section* → *Holder assy, cartridge section*
→ *Holder assy, cartridge installation* → *Optical pick-up (KMS-250A) section*

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

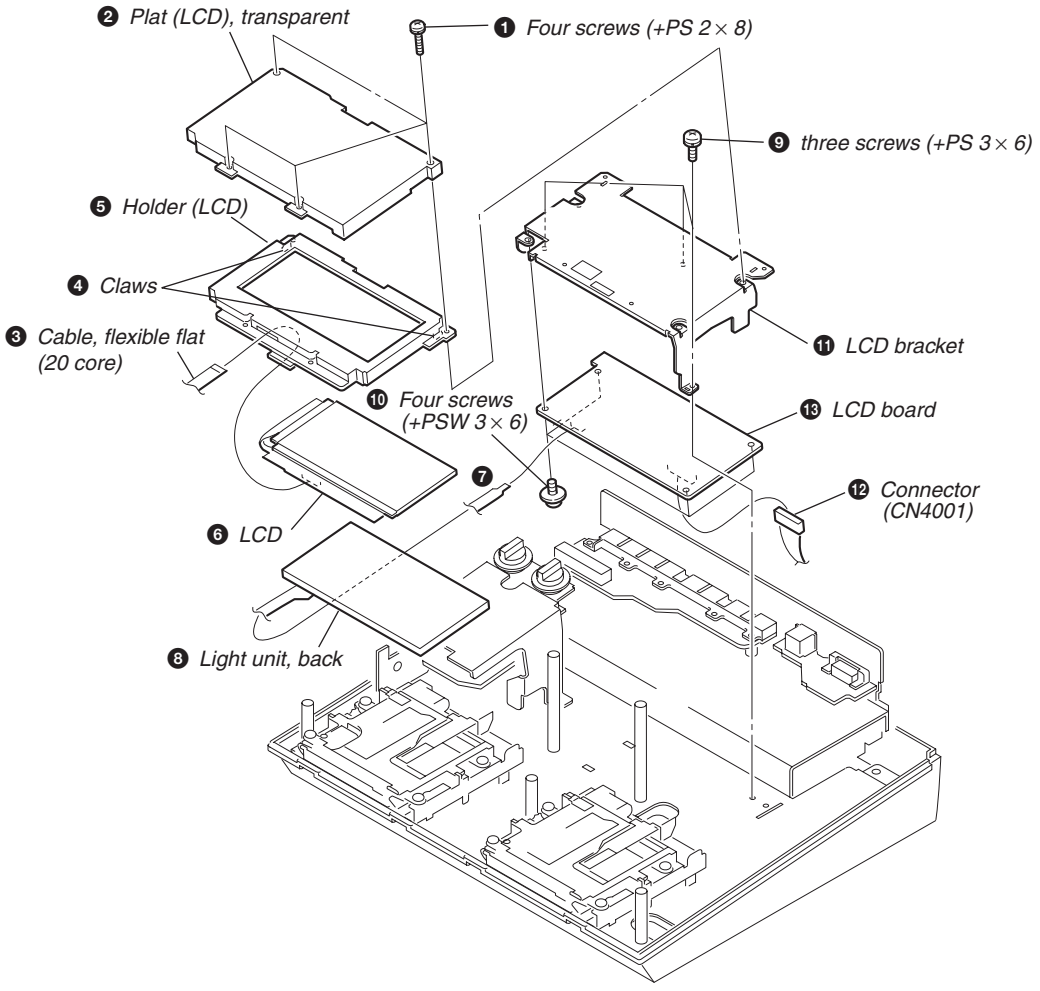
2-1. CABINET(UPPER) SECTION



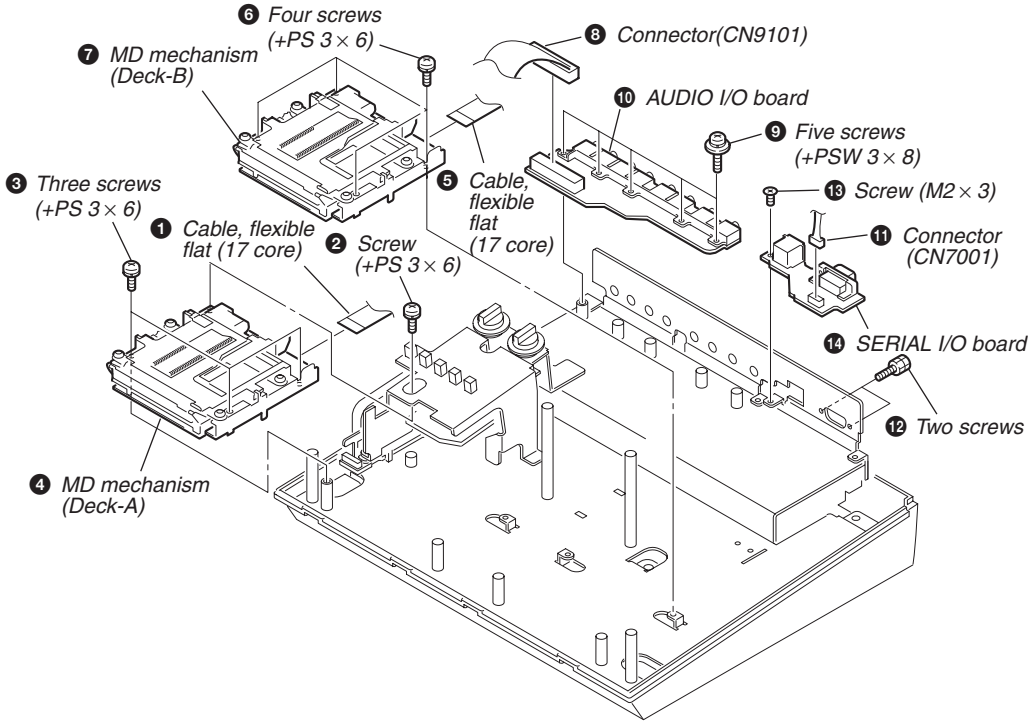
2-2. SWITCH SECTION



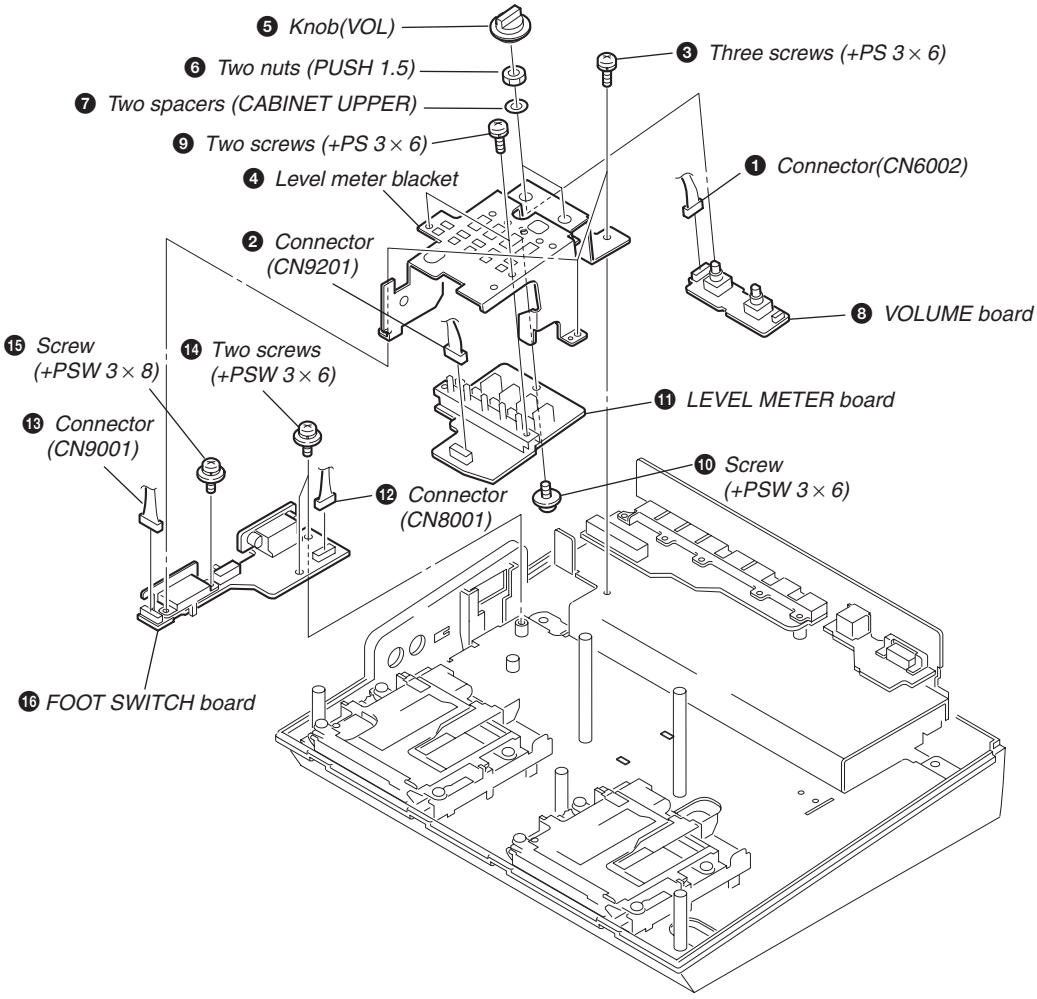
2-3. LCD SECTION



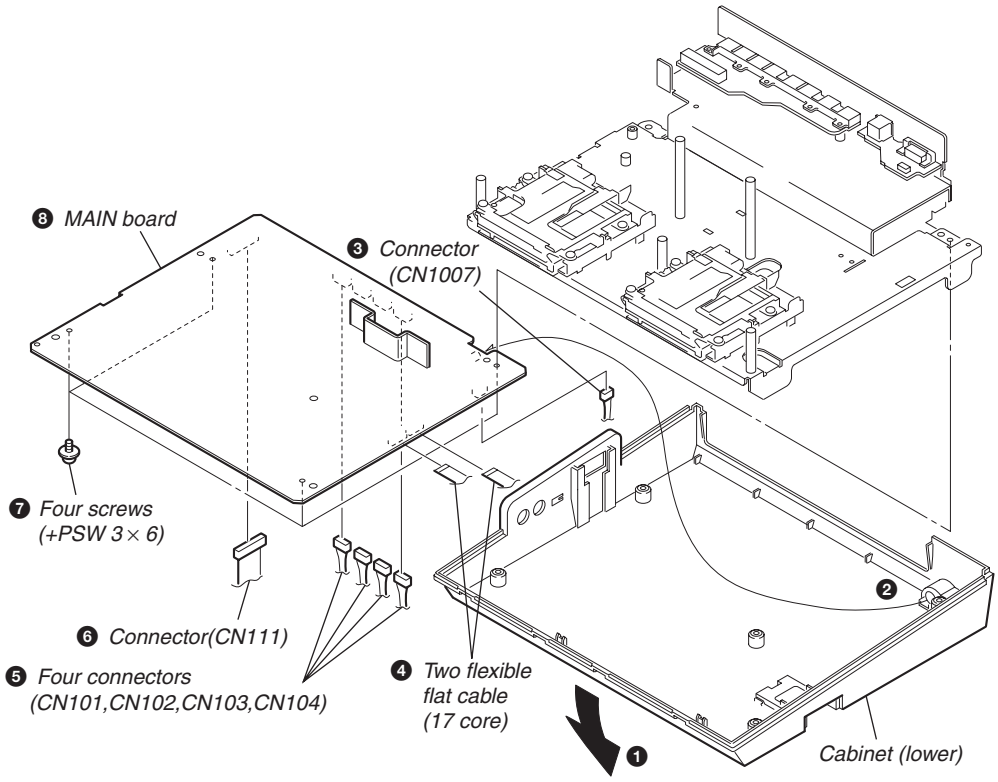
2-4. I/O SECTION



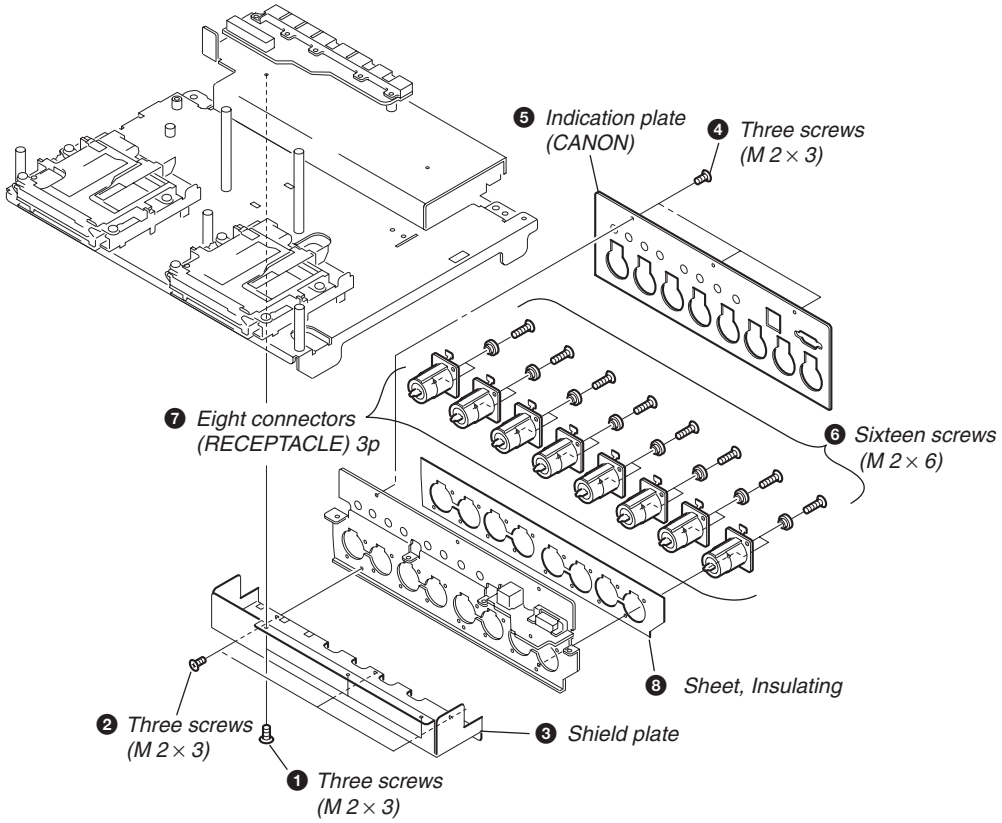
2-5. VOLUME SECTION



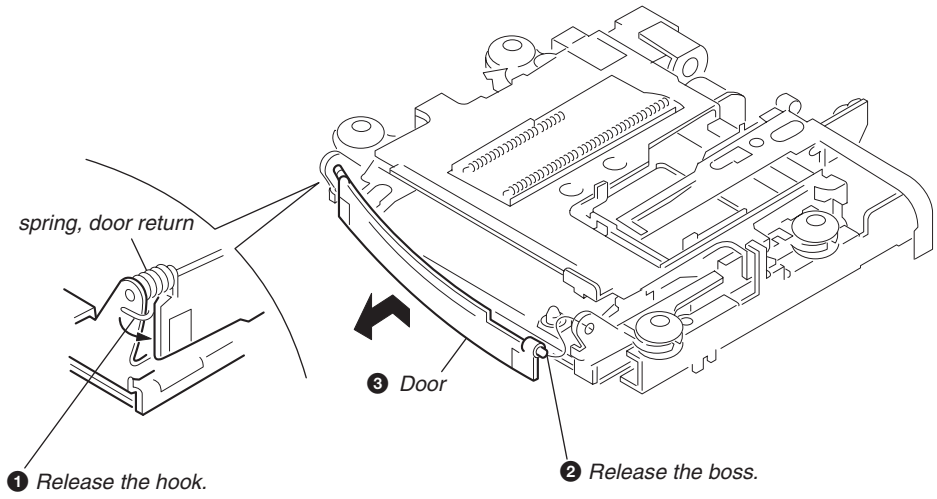
2-6. MAIN BOARD



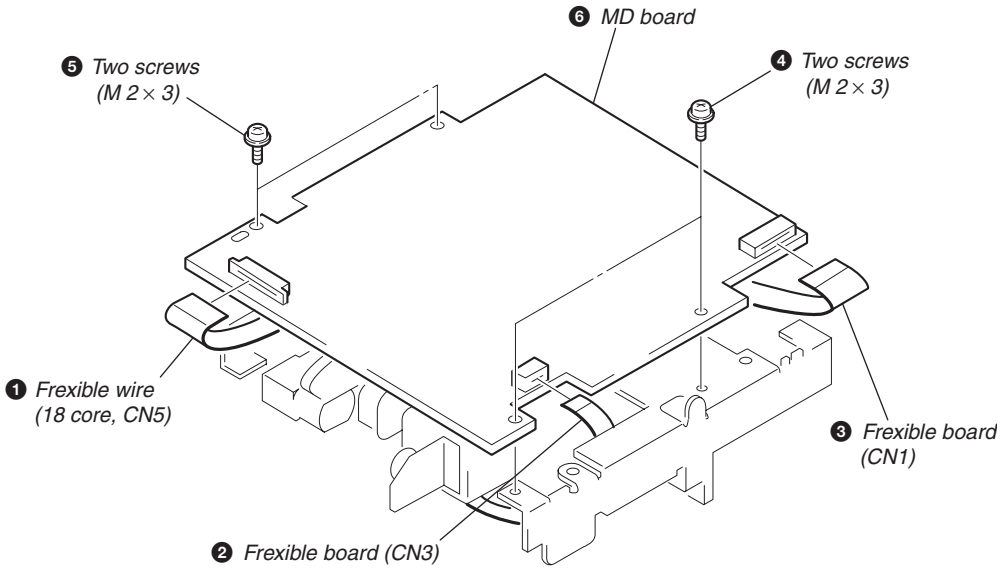
2-7. CONNECTOR SECTION



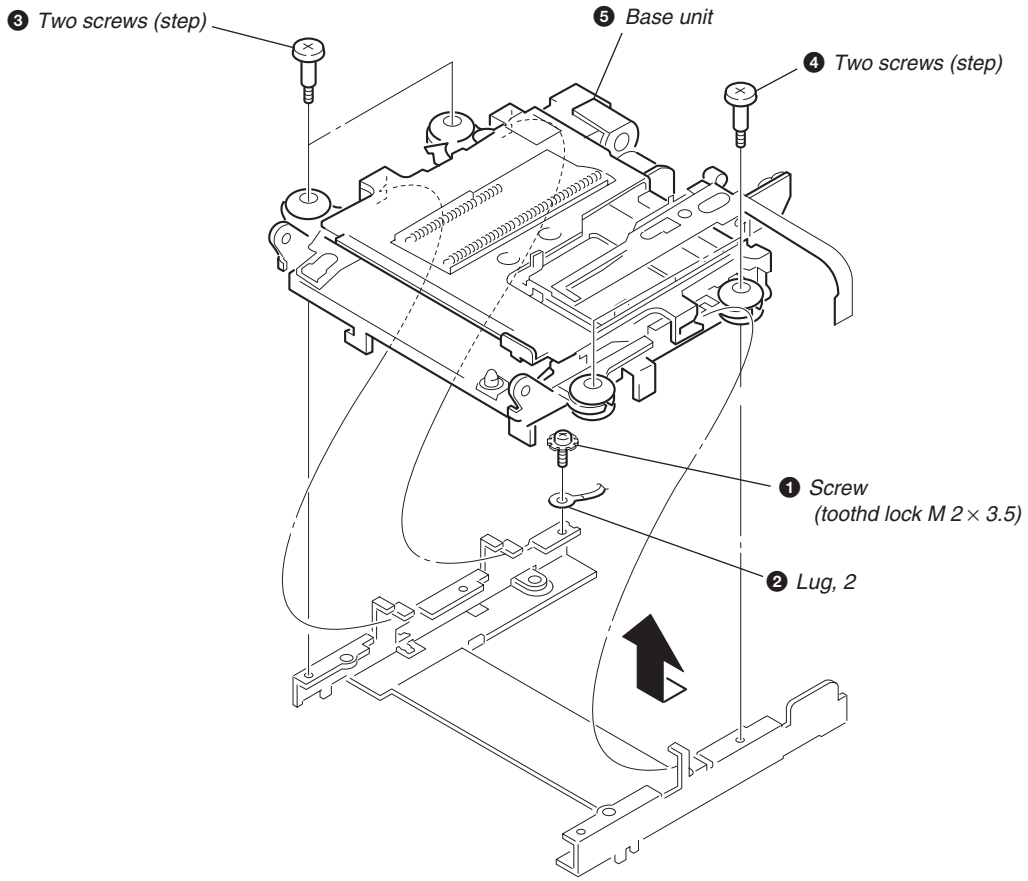
2-8. DOOR



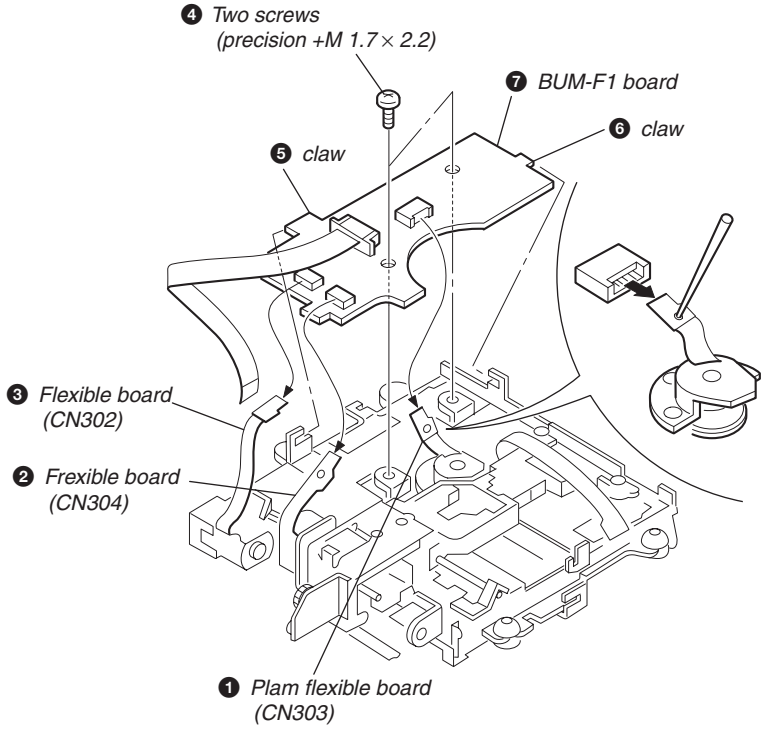
2-9. MD BOARD



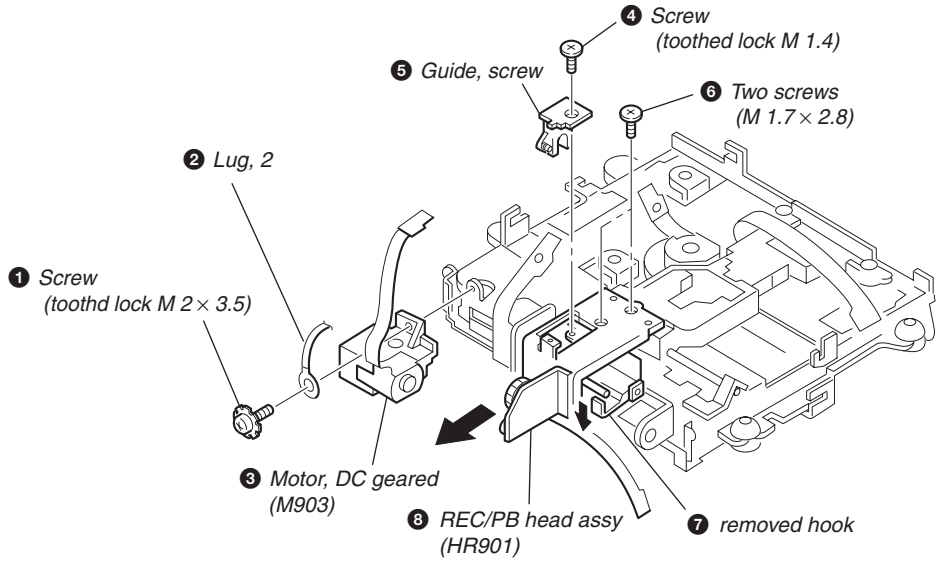
2-10. BASE UNIT SECTION



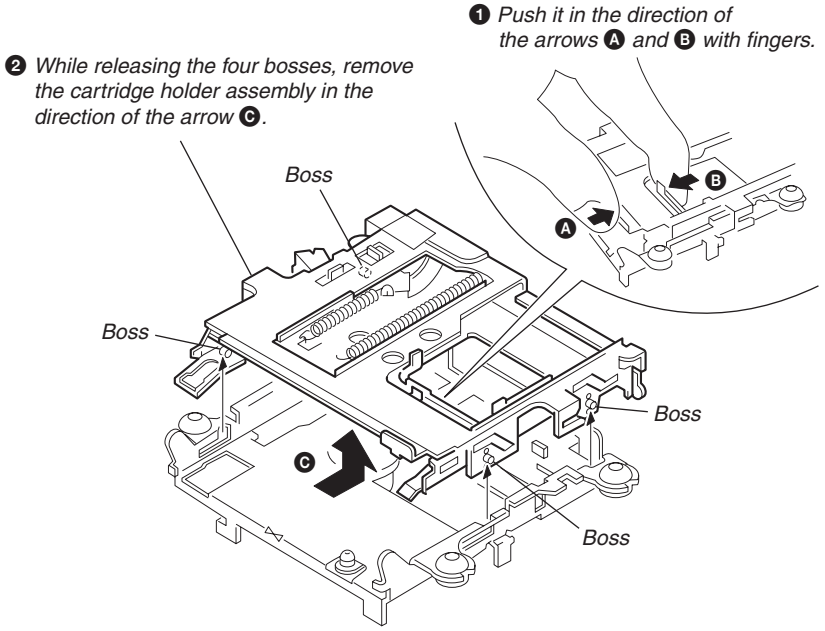
2-11. BUM-F1 BOARD



2-12. REC/PB HEAD ASSY (HR901) SECTION

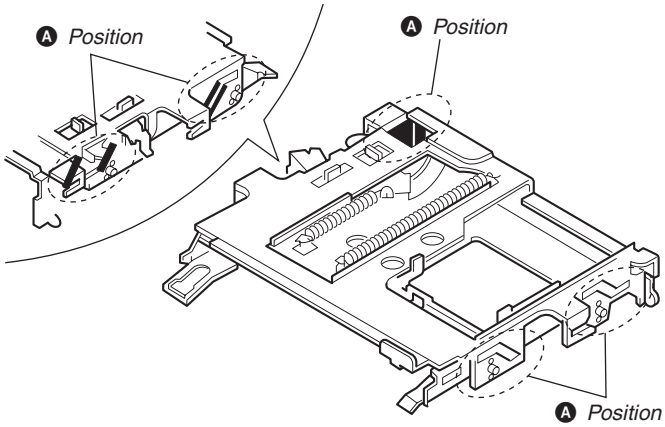


2-13. HOLDER ASSY, CARTRIDGE SECTION

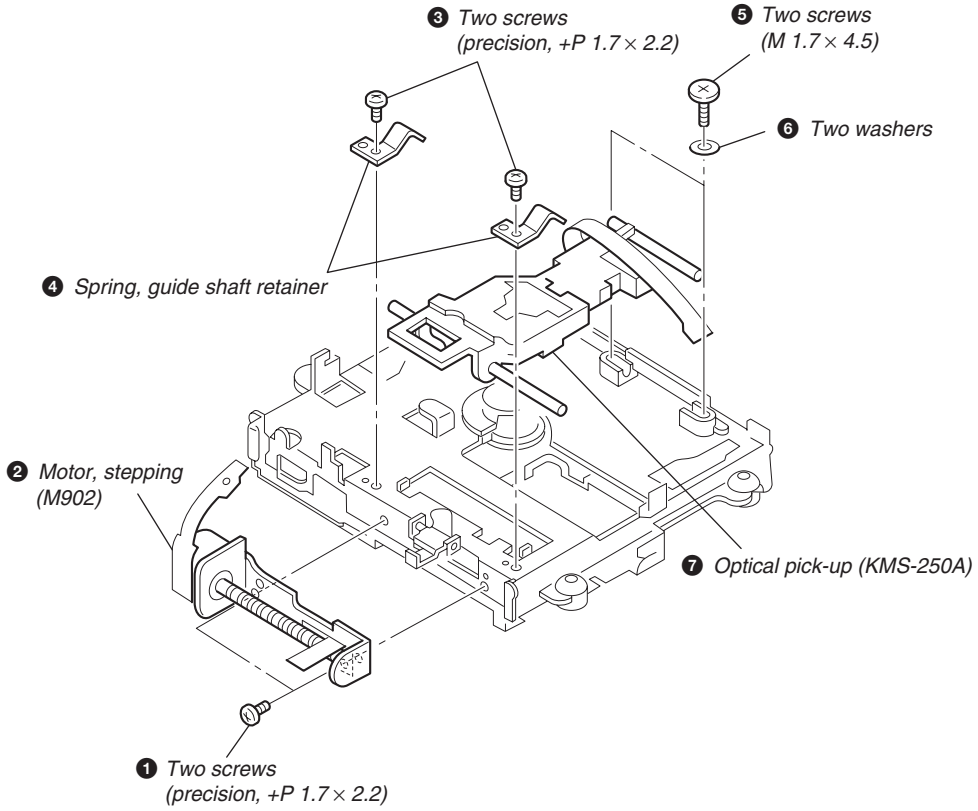


2-14. HOLDER ASSY, CARTRIDGE INSTALLATION

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



2-15. OPTICAL PICK-UP (KMS-250A) SECTION



SECTION 3
TEST MODE

3-1. Description

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

After pressing the numeric keys in the order starting from [1], [2], [3], [5], [8] up to [0], press the [⇧] button.

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

1. While pressing the [⇦] button, rotate the JOG dial and set "k_test_h" to "0".
2. After pressing the numeric keys in the order starting from [0], [8], [5], [3], [2] up to [1], press the [⇧] button.

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.

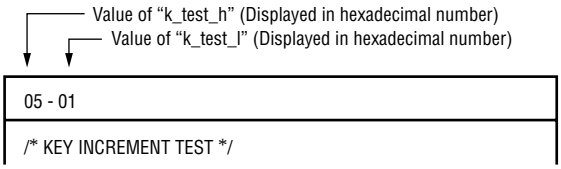
1. When the interval of pressing the previous numeric key and the next key exceeds one second or more.
2. When the deck select key is pressed.
3. When the k_mode changes.
4. When the selected deck has changed.
5. When the test mode is set.

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.



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 inhit bit is being set, the machine returns NAK and the machine does not chanage "k_test_h/l".

3-1-5. Test Display

01 - 00		(Top menu)
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)

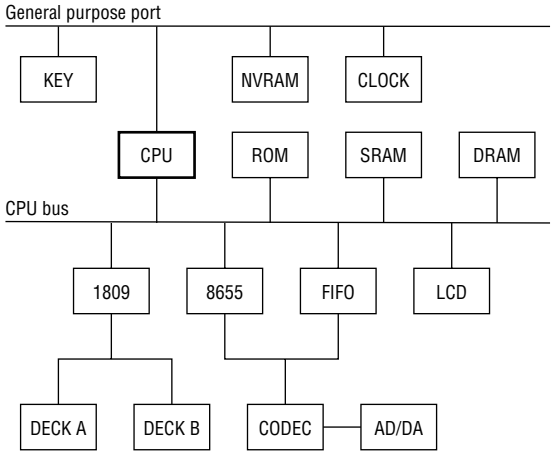
3-1-6. Communication with Mechanism Deck

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.)

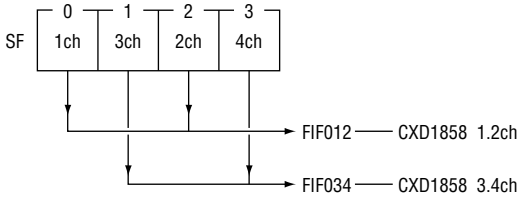
3-1-7. Circuit Block



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 */

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 = xxxxxxxx
DECK-B Laser Cnt = xxxxxxxx
```

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 (Adrr) and number (Num) of display bytes by rotating the JOG dial and pressing ENTER button.

03-0D

Adrr = 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

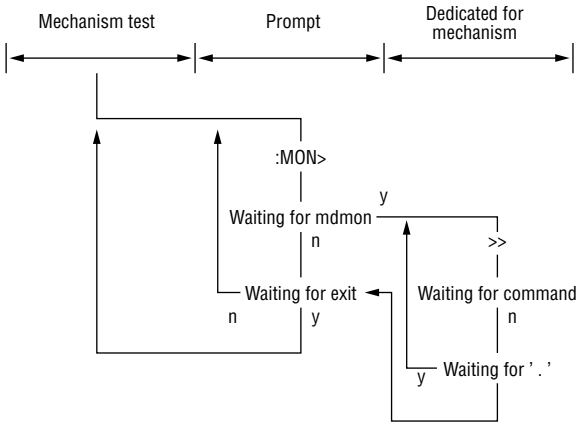
When the OA test has ended with success, the following message appears on the LCD.

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 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

3-3-12. 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]

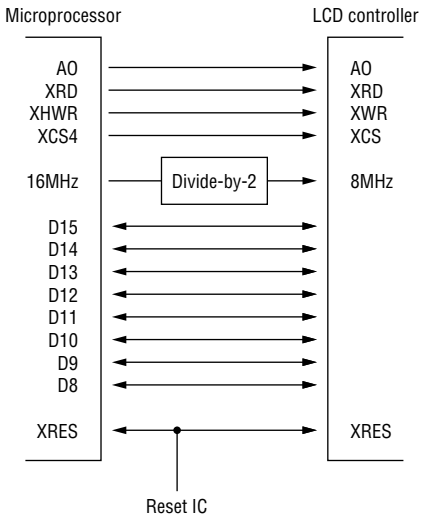
03-57 (DECK-B)

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

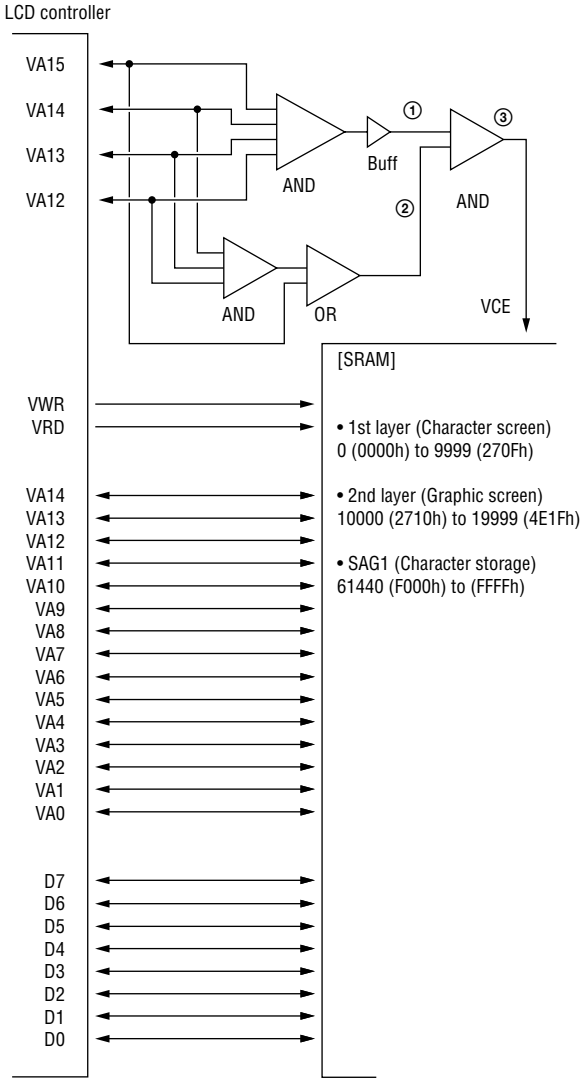
3-4. Display System Test: [DISPLAY]

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

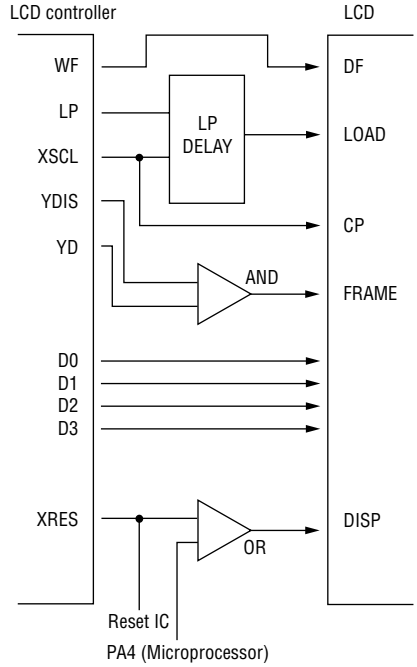


• Connecting the LCD Controller with SRAM



ADDRESS	①	②	③
0000 to 6FFF	H	L	L
7000 to EFFF	H	H	H
F000 to FFFF	L	H	L

• 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]

Mabye 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

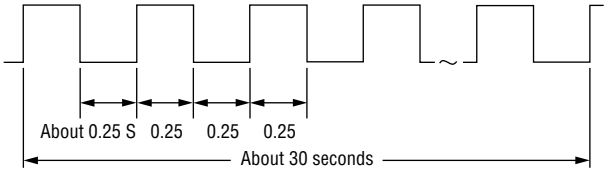
3-4-3. Checking the LCD Dot (Turning off all dots)
All dots of LCD are turned off. (Graphic data : By 0x00 transfer)

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  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

                Group 0                    Group 7
                  ↓                          ↓
AD CODE       : FF  FF  FF  FF  FF  FF  FF  FF
```

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
	1	△	DISP_MODE(A)		Use is prohibited
	2	▽	DISP_MODE(B)		A/B(FS)
	3	DEL			INDEX/TIME
	4	<(LEFT)			STANDBY/ON
	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: [DIGITLAL 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 0x7FFFFF 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
```

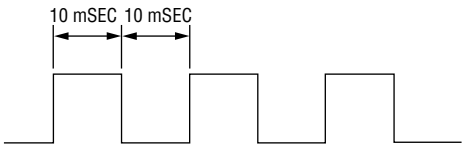
Displays the input status of the pin-2 of the CPU in the JOG-1.
Displays the input status of the pin-3 of the CPU in the JOG-2.
The JOG-1 is the input at pin-2 (PB0) connector of the IC1077 HD64003TF16.
The JOG-2 is the input at pin-3 (PB1) connector of the IC1077 HD64003TF16.

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.

CRTL_1 Displays the value of the control register 1 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 32768.599 ( ) Indicates the clock oscillation frequency range. 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

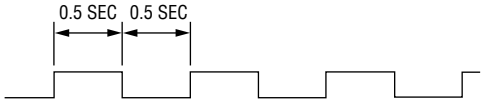
The LEDs of the channel 3 and channel 4 of the monitor and those of LINE OUT, the deck-A and deck-B, and the REC button simultaneously blink.

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

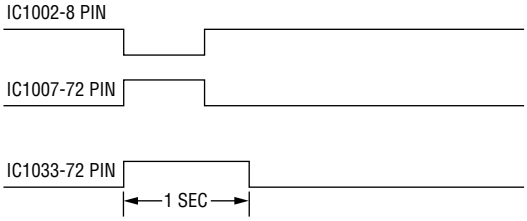
When the NMI starts, “NMI ON” appears.

```
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.



LCD display

"NMI OFF"	"NMI ON"	"NMI OFF"

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 INIIALIZE / 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_l.

• 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 0x55555.
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)”.

MEMO

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)EEPROM  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

Note on Printed Wiring Boards: MAIN SECTION

- o——— : 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

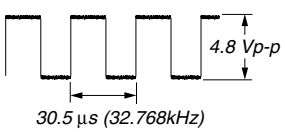
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.

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

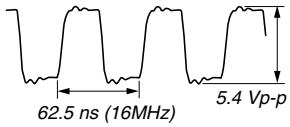
- ▬ : B+ Line.
- Power voltage is dc 12V and fed with regulated dc power supply from battery terminal.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due to 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
  ▷» : REC

• WAVEFORMS

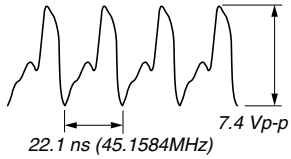
① IC1004 ① (TP1001)



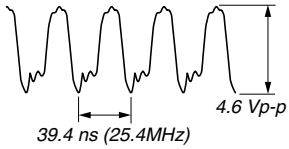
② IC1009 ④ (TP1006)



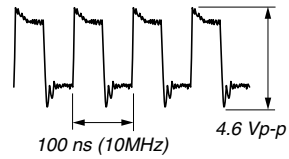
③ IC1018 ④



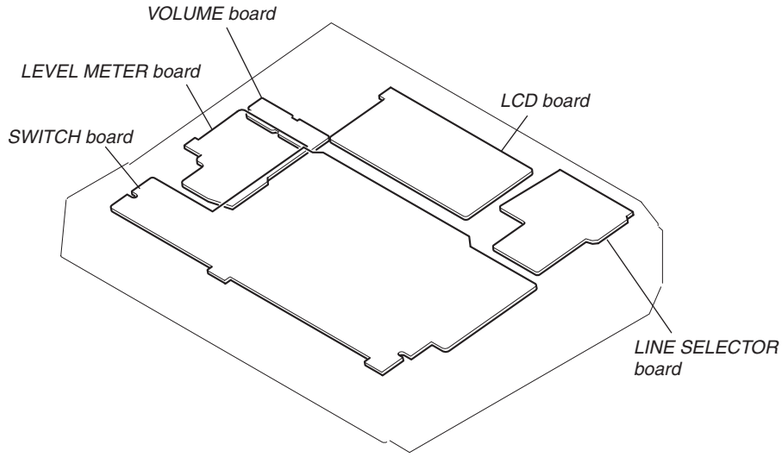
④ IC38 ㊱ (CL25)

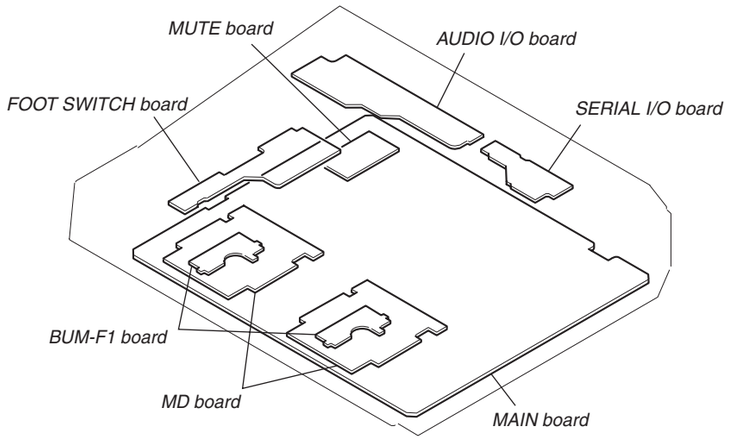


⑤ IC2 ㊶ (CL18)

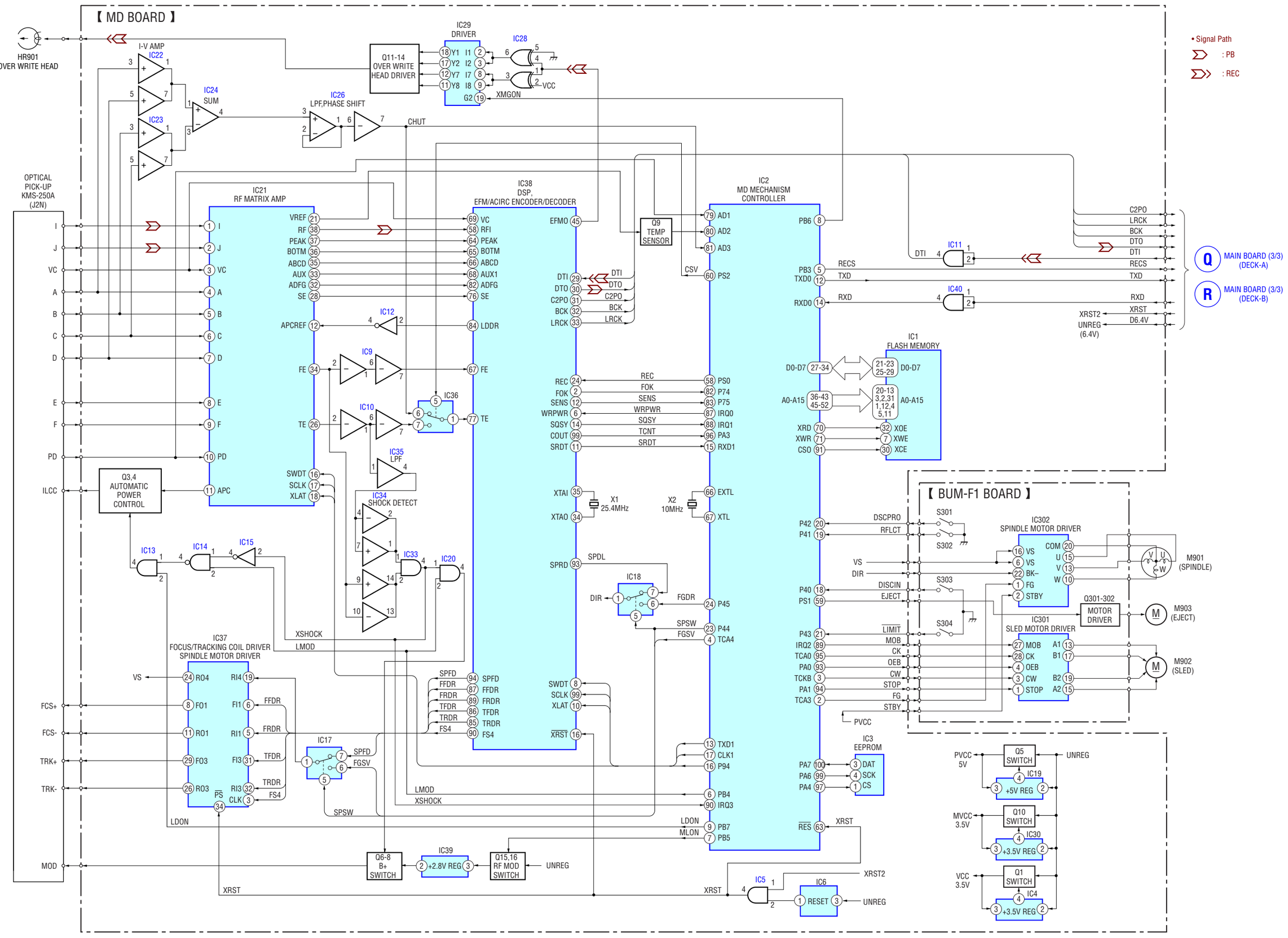


5-1. CIRCUIT BOARDS LOCATION

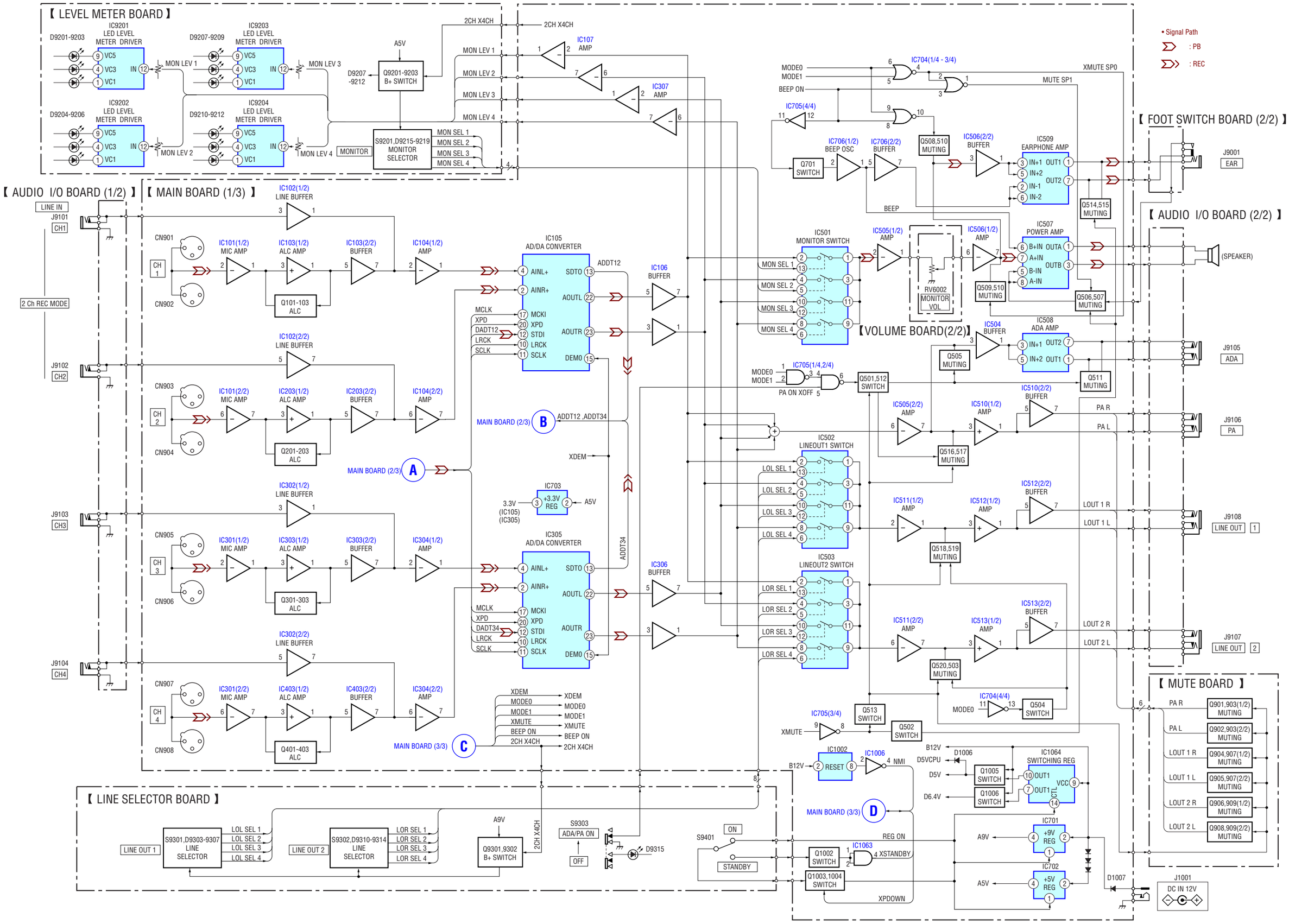




5-2. BLOCK DIAGRAMS
MD SECTION

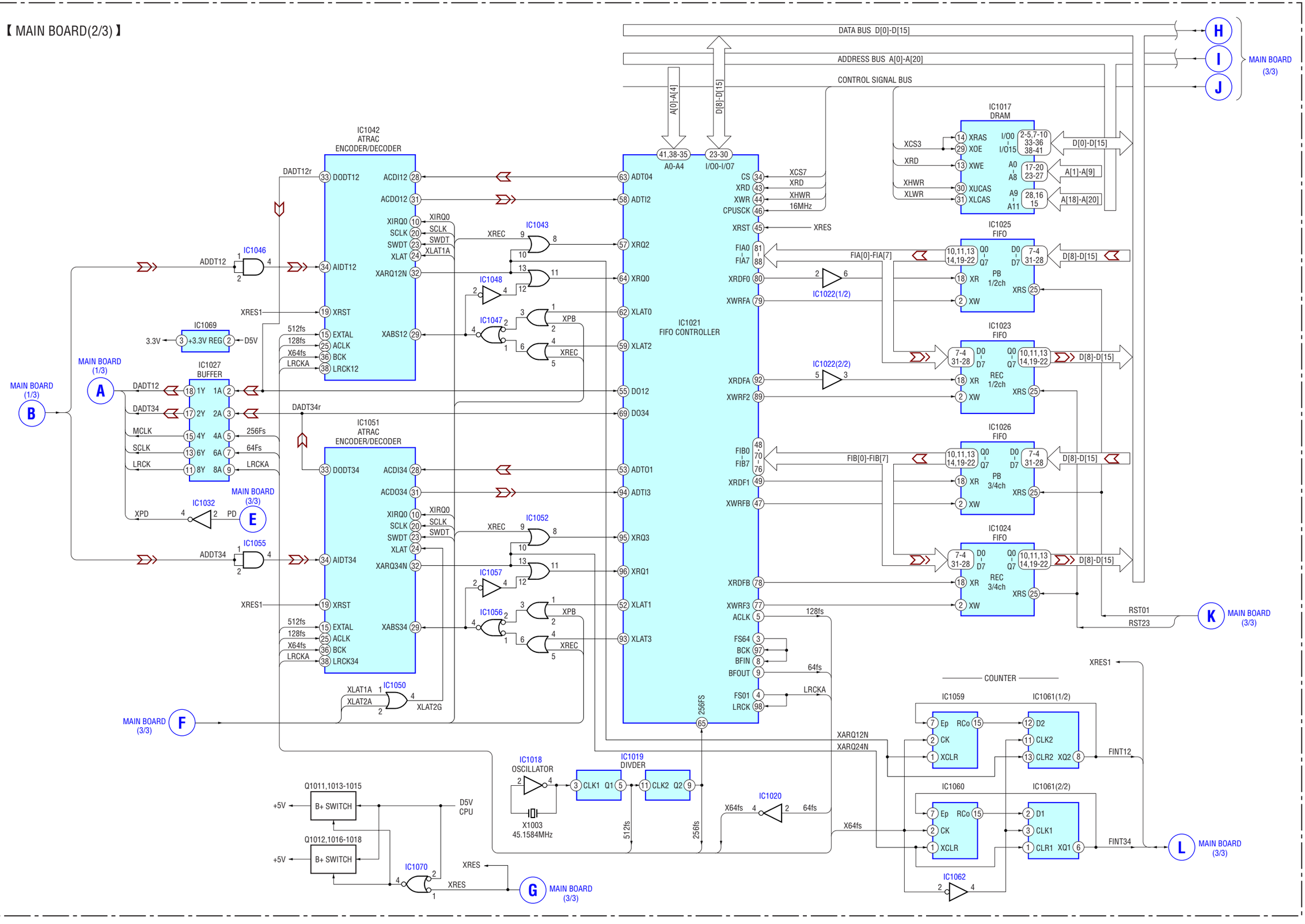


I/O SECTION


【 LEVEL METER BOARD 】
IC9201 LED LEVEL METER DRIVER
IC9202 LED LEVEL METER DRIVER
IC9203 LED LEVEL METER DRIVER
IC9204 LED LEVEL METER DRIVER
D9201-9203
D9204-9206
D9207-9209
D9210-9212
VC5
VC3
VC1
IN
MON LEV 1
MON LEV 2
MON LEV 3
MON LEV 4
A5V
D9207 -9212
Q9201-9203 B+ SWITCH
2CH X4CH
MONITOR
S9201,D9215-9219 MONITOR SELECTOR
MON SEL 1
MON SEL 2
MON SEL 3
MON SEL 4
IC107 AMP
IC307 AMP
• Signal Path
: PB
: REC
【 AUDIO I/O BOARD (1/2) 】
【 MAIN BOARD (1/3) 】
LINE IN
J9101
CH1
J9102
CH2
2 Ch REC MODE
J9103
CH3
J9104
CH4
CN901
CN902
CN903
CN904
CN905
CN906
CN907
CN908
CH 1
CH 2
CH 3
CH 4
IC102(1/2) LINE BUFFER
IC102(2/2) LINE BUFFER
IC302(1/2) LINE BUFFER
IC302(2/2) LINE BUFFER
IC101(1/2) MIC AMP
IC101(2/2) MIC AMP
IC301(1/2) MIC AMP
IC301(2/2) MIC AMP
IC103(1/2) ALC AMP
IC103(2/2) BUFFER
IC104(1/2) AMP
IC203(1/2) ALC AMP
IC203(2/2) BUFFER
IC104(2/2) AMP
IC303(1/2) ALC AMP
IC303(2/2) BUFFER
IC304(1/2) AMP
IC403(1/2) ALC AMP
IC403(2/2) BUFFER
IC304(2/2) AMP
Q101-103 ALC
Q201-203 ALC
Q301-303 ALC
Q401-403 ALC
IC105 AD/DA CONVERTER
IC305 AD/DA CONVERTER
AINL+
AINR+
MCKI
XPD
STDI
LRCK
SCLK
SDTO
AOUTL
AOUTR
DEMO
MCLK
DADT12
DADT34
ADDT12
ADDT34
XDEM
MODE0
MODE1
XMUTE
BEEP ON
2CH X4CH
MAIN BOARD (2/3) A
MAIN BOARD (2/3) B
MAIN BOARD (3/3) C
IC703
3.3V (IC105) (IC305)
+3.3V REG
IC106 BUFFER
IC306 BUFFER
IC501 MONITOR SWITCH
IC502 LINEOUT1 SWITCH
IC503 LINEOUT2 SWITCH
LOL SEL 1
LOL SEL 2
LOL SEL 3
LOL SEL 4
LOR SEL 1
LOR SEL 2
LOR SEL 3
LOR SEL 4
【VOLUME BOARD(2/2)】
RV6002 MONITOR VOL
IC704(1/4 - 3/4)
IC705(4/4)
IC706(1/2) BEEP OSC
IC706(2/2) BUFFER
Q701 SWITCH
Q508,510 MUTING
IC506(2/2) BUFFER
IC509 EARPHONE AMP
IN+1
IN+2
IN-1
IN-2
OUT1
OUT2
Q514,515 MUTING
BEEP
IC505(1/2) AMP
IC506(1/2) AMP
IC507 POWER AMP
B+IN
A+IN
B-IN
A-IN
OUTA
OUTB
Q509,510 MUTING
Q506,507 MUTING
IC504 BUFFER
IC508 ADA AMP
Q505 MUTING
Q511 MUTING
IC705(1/4,2/4)
PA ON XOFF
Q501,512 SWITCH
IC505(2/2) AMP
IC510(1/2) AMP
IC510(2/2) BUFFER
Q516,517 MUTING
IC511(1/2) AMP
IC512(1/2) AMP
IC512(2/2) BUFFER
Q518,519 MUTING
IC511(2/2) AMP
IC513(1/2) AMP
IC513(2/2) BUFFER
Q520,503 MUTING
IC704(4/4)
Q504 SWITCH
Q513 SWITCH
Q502 SWITCH
IC705(3/4)
XMUTE
MODE0
MODE1
BEEP ON
XMUTE SP0
MUTE SP1
【 FOOT SWITCH BOARD (2/2) 】
【 AUDIO I/O BOARD (2/2) 】
【 MUTE BOARD 】
J9001 EAR
J9105 ADA
J9106 PA
J9108 LINE OUT 1
J9107 LINE OUT 2
(SPEAKER)
PA R
PA L
LOUT 1 R
LOUT 1 L
LOUT 2 R
LOUT 2 L
Q901,903(1/2) MUTING
Q902,903(2/2) MUTING
Q904,907(1/2) MUTING
Q905,907(2/2) MUTING
Q906,909(1/2) MUTING
Q908,909(2/2) MUTING
【 LINE SELECTOR BOARD 】
LINE OUT 1
LINE OUT 2
S9301,D9303-9307 LINE SELECTOR
S9302,D9310-9314 LINE SELECTOR
Q9301,9302 B+ SWITCH
A9V
2CH X4CH
S9303 ADA/PA ON
OFF
D9315
S9401
ON
STANDBY
IC1002
RESET
B12V
IC1006
NMI
MAIN BOARD (3/3) D
REG ON
Q1002 SWITCH
IC1063
XSTANDBY
Q1003,1004 SWITCH
XPDOWN
D5VCPU
D5V
D6.4V
D1006
Q1005 SWITCH
Q1006 SWITCH
IC1064 SWITCHING REG
OUT1
VCC
CTL
IC701 +9V REG
IC702 +5V REG
D1007
J1001 DC IN 12V

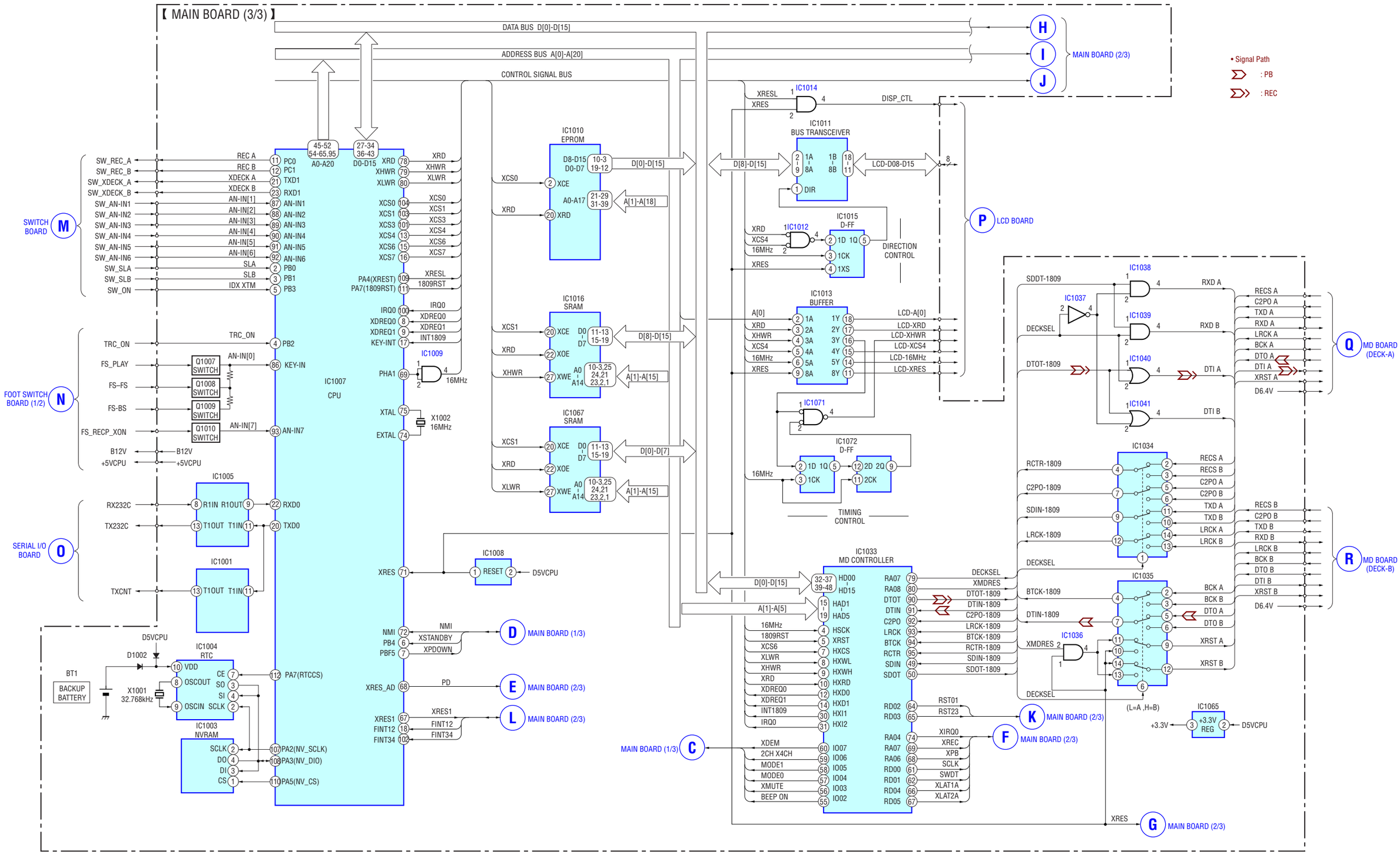
FIFO SECTION

【 MAIN BOARD(2/3) 】



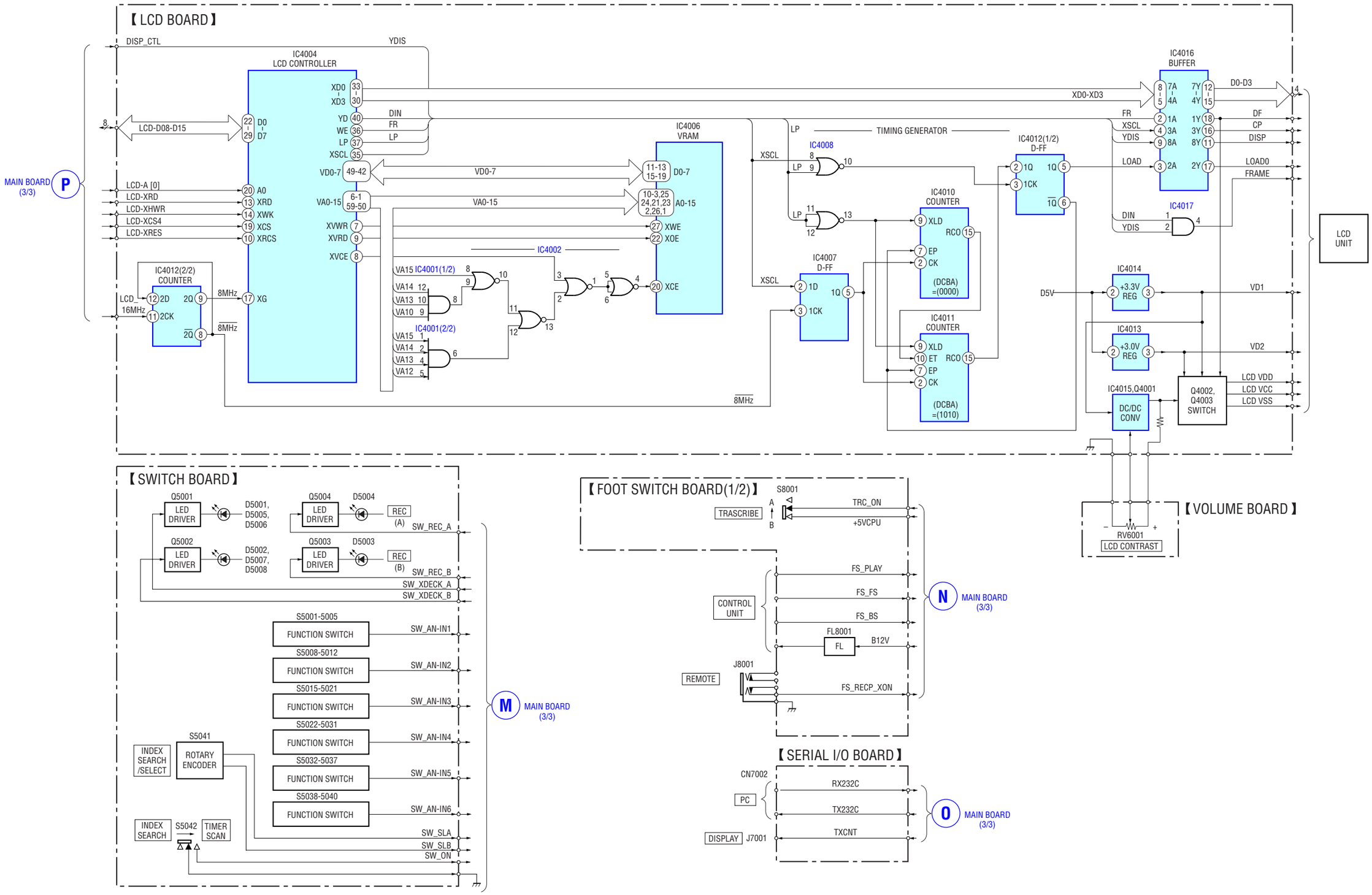
• Signal Path
: PB
: REC

CPU SECTION


【 MAIN BOARD (3/3) 】
DATA BUS D[0]-D[15]
ADDRESS BUS A[0]-A[20]
CONTROL SIGNAL BUS
H
I
J
MAIN BOARD (2/3)
• Signal Path
: PB
: REC
SWITCH BOARD
M
SW_REC_A
SW_REC_B
SW_XDECK_A
SW_XDECK_B
SW_AN-IN1
SW_AN-IN2
SW_AN-IN3
SW_AN-IN4
SW_AN-IN5
SW_AN-IN6
SW_SLA
SW_SLB
SW_ON
FOOT SWITCH BOARD (1/2)
N
TRC_ON
FS_PLAY
FS–FS
FS-BS
FS_RECP_XON
B12V
+5VCPU
Q1007 SWITCH
Q1008 SWITCH
Q1009 SWITCH
Q1010 SWITCH
AN-IN[0]
AN-IN[7]
IC1007
CPU
45-52 54-65,95
A0-A20
27-34 36-43
D0-D15
REC A
REC B
XDECK A
XDECK B
AN-IN[1]
AN-IN[2]
AN-IN[3]
AN-IN[4]
AN-IN[5]
AN-IN[6]
SLA
SLB
IDX XTM
PC0
PC1
TXD1
RXD1
AN-IN1
AN-IN2
AN-IN3
AN-IN4
AN-IN5
AN-IN6
PB0
PB1
PB3
PB2
KEY-IN
AN-IN7
XRD
XHWR
XLWR
XCS0
XCS1
XCS3
XCS4
XCS6
XCS7
PA4(XREST)
PA7(1809RST)
XRESL
1809RST
IRQ0
XDREQ0
XDREQ1
INT1809
KEY-INT
PHA1
IC1009
16MHz
XTAL
EXTAL
X1002
16MHz
IC1010
EPROM
D8-D15
D0-D7
10-3 19-12
D[0]-D[15]
A0-A17
21-29 31-39
A[1]-A[18]
XCE
XRD
IC1016
SRAM
XCS1
XOE
XHWR
XWE
A0 A14
10-3,25 24,21 23,2,1
A[1]-A[15]
D0 D7
11-13 15-19
D[8]-D[15]
IC1067
SRAM
D[0]-D[7]
IC1014
XRESL
XRES
DISP_CTL
IC1011
BUS TRANSCEIVER
D[8]-D[15]
LCD-D08-D15
DIR
IC1015
D-FF
IC1012
XCS4
16MHz
1D 1Q
1CK
1XS
DIRECTION CONTROL
P
LCD BOARD
IC1013
BUFFER
A[0]
LCD-A[0]
LCD-XRD
LCD-XHWR
LCD-XCS4
LCD-16MHz
LCD-XRES
IC1071
IC1072
D-FF
2D 2Q
2CK
TIMING CONTROL
IC1033
MD CONTROLLER
32-37 39-48
HD00 HD15
15 19
HAD1 HAD5
HSCK
XRST
HXCS
HXWL
HXWH
HXRD
HXD0
HXD1
HXI1
HXI2
IO07
IO06
IO05
IO04
IO03
IO02
RA07
RA08
DTOT
DTIN
C2PO
LRCK
BTCK
RCTR
SDIN
SDOT
RD02
RD03
RA04
RA07
RA06
RD00
RD01
RD04
RD05
DECKSEL
XMDRES
DTOT-1809
DTIN-1809
C2PO-1809
LRCK-1809
BTCK-1809
RCTR-1809
SDIN-1809
SDOT-1809
RST01
RST23
XIRQ0
XREC
XPB
SCLK
SWDT
XLAT1A
XLAT2A
K
MAIN BOARD (2/3)
F
MAIN BOARD (2/3)
C
MAIN BOARD (1/3)
IC1038
IC1037
IC1039
IC1040
IC1041
IC1034
IC1035
IC1036
SDDT-1809
DECKSEL
DTOT-1809
RCTR-1809
C2PO-1809
SDIN-1809
LRCK-1809
BTCK-1809
DTIN-1809
XMDRES
RXD A
RXD B
DTI A
DTI B
RECS A
RECS B
C2PO A
C2PO B
TXD A
TXD B
LRCK A
LRCK B
BCK A
BCK B
DTO A
DTO B
XRST A
XRST B
(L=A ,H=B)
Q
MD BOARD (DECK-A)
R
MD BOARD (DECK-B)
IC1065
+3.3V REG
+3.3V
D5VCPU
SERIAL I/O BOARD
O
RX232C
TX232C
TXCNT
IC1005
IC1001
R1IN R1OUT
T1OUT T1IN
RXD0
TXD0
IC1008
RESET
XRES
D5VCPU
IC1004
RTC
VDD
OSCOUT
OSCIN
CE
SO
SI
SCLK
PA7(RTCCS)
D1002
D5VCPU
BT1
BACKUP BATTERY
X1001
32.768kHz
IC1003
NVRAM
SCLK
DO
DI
CS
PA2(NV_SCLK)
PA3(NV_DIO)
PA5(NV_CS)
NMI
PB4
PBF5
XSTANDBY
XPDOWN
D
MAIN BOARD (1/3)
XRES_AD
PD
E
MAIN BOARD (2/3)
XRES1
FINT12
FINT34
L
MAIN BOARD (2/3)
XRES
G
MAIN BOARD (2/3)

MDCC-2000

LCD SECTION

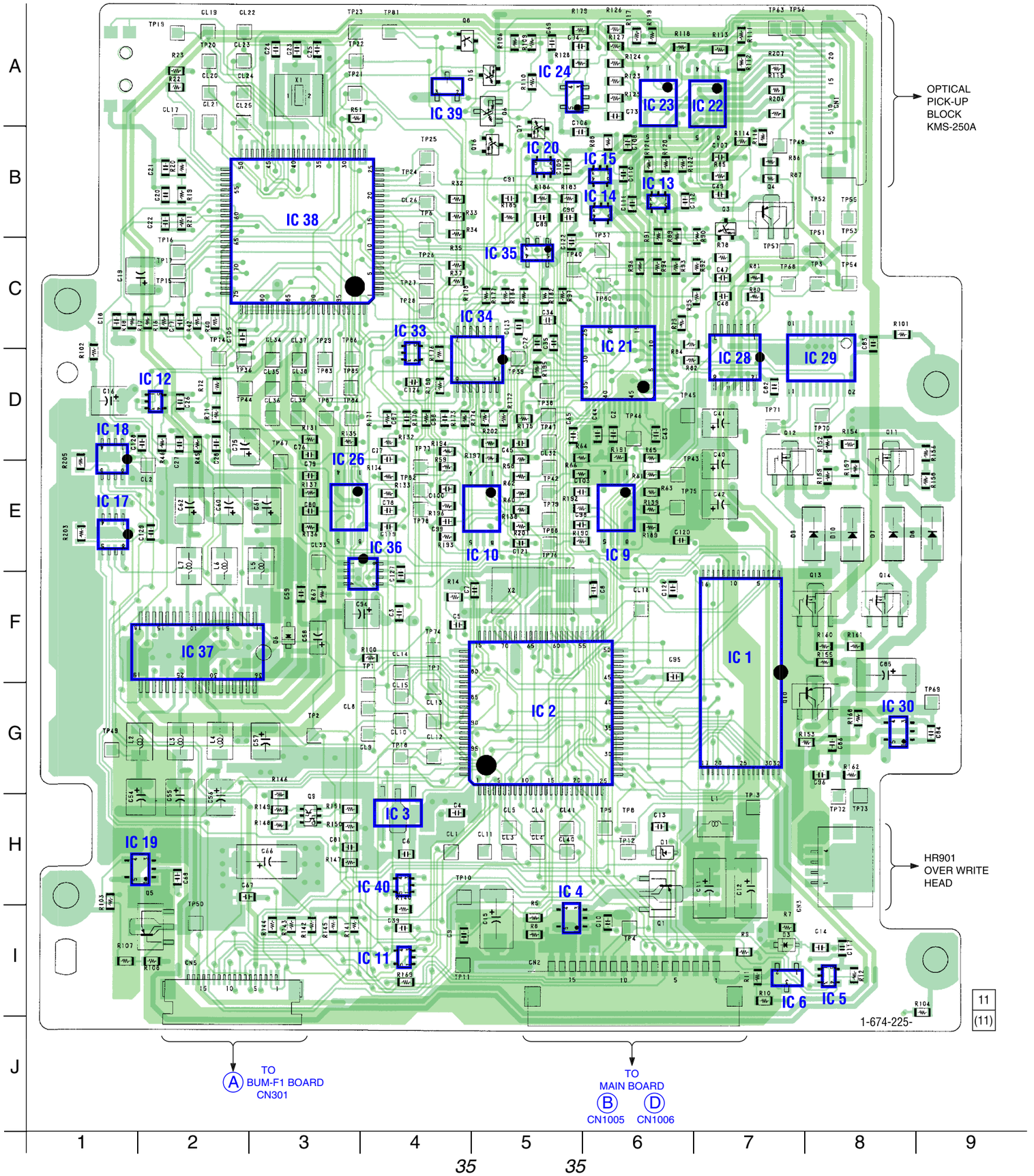


5-3. PRINTED WIRING BOARD MD SECTION

• : Uses unleaded solder.

• See page 29 for Circuit Boards Location.

【MD BOARD】

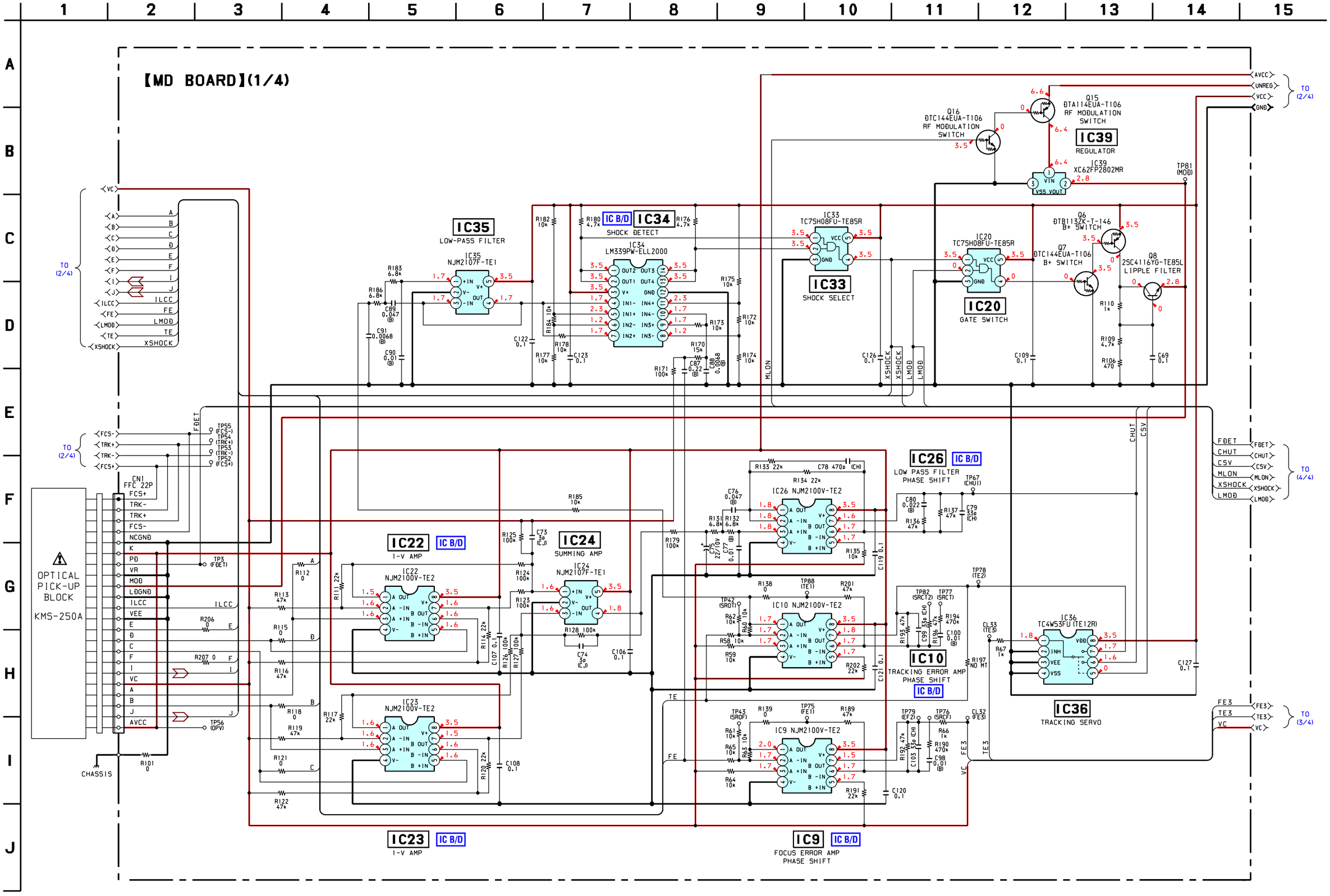


• **Semiconductor Location**

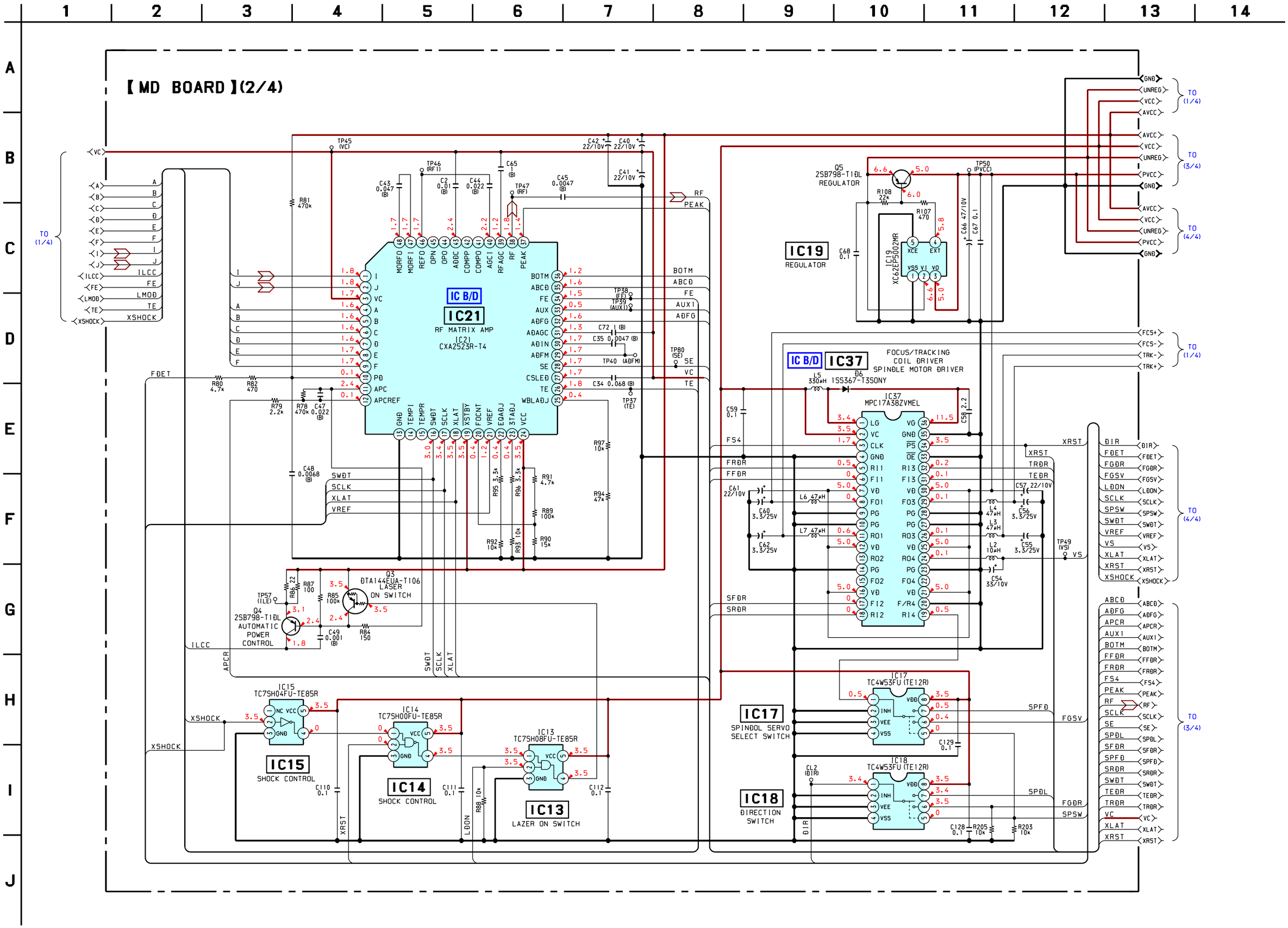
Ref. No.	Location
D1	H-6
D3	I-7
D6	F-3
D7	E-8
D8	E-7
D9	E-8
D10	E-7
IC1	F-7
IC2	G-5
IC3	H-4
IC4	H-5
IC5	I-8
IC6	I-7
IC9	E-6
IC10	E-5
IC11	I-4
IC12	D-2
IC13	B-6
IC14	B-6
IC15	B-6
IC17	E-1
IC18	D-1
IC19	H-2
IC20	B-5
IC21	D-6
IC22	A-7
IC23	A-6
IC24	A-5
IC26	E-3
IC28	D-7
IC29	D-8
IC30	G-8
IC33	C-4
IC34	C-5
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

5-4. SCHEMATIC DIAGRAM MD SECTION (1/4)

• See page 81 for IC Block Diagrams.

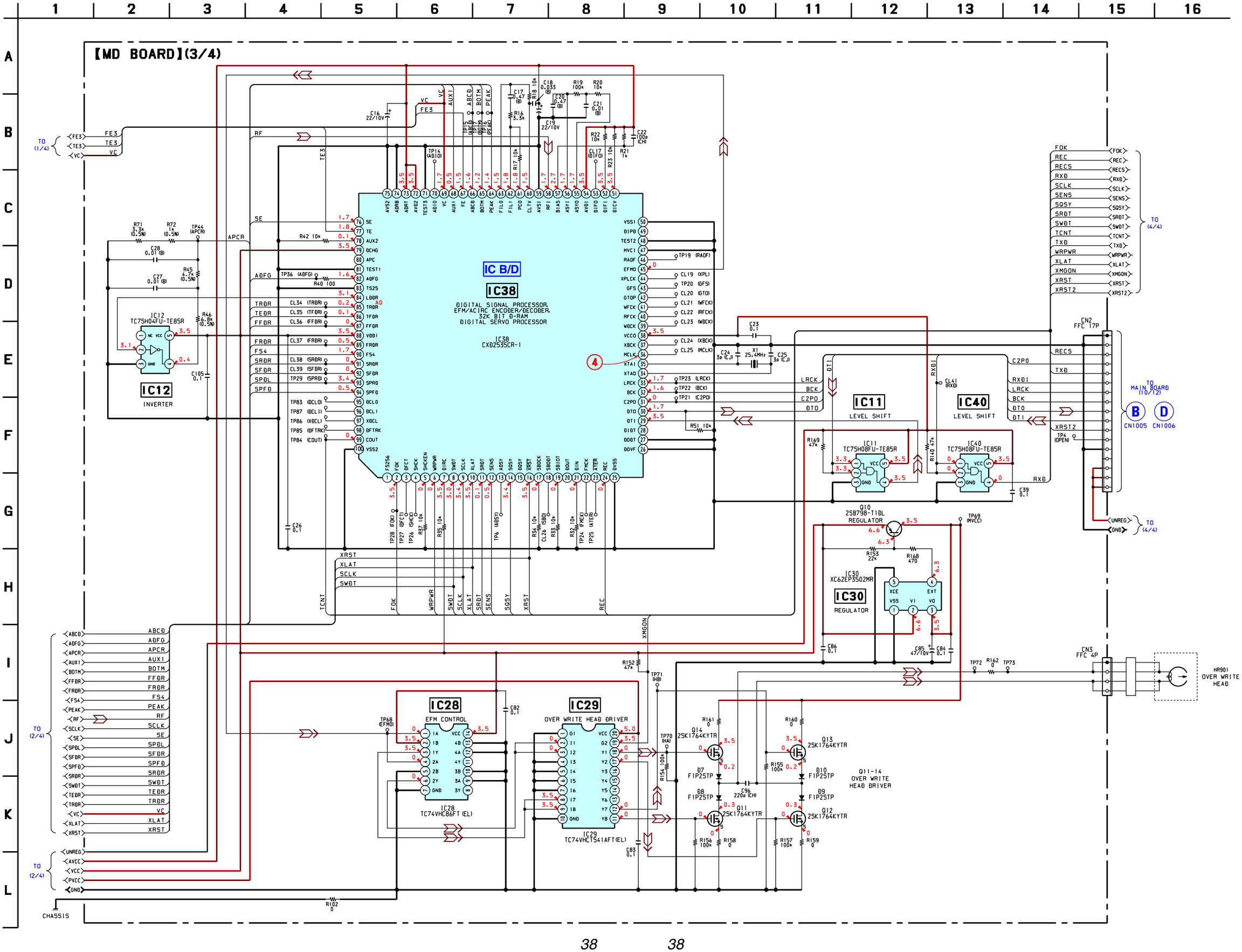


5-5. SCHEMATIC DIAGRAM MD SECTION (2/4) • See page 77, 81 for IC Block Diagrams.

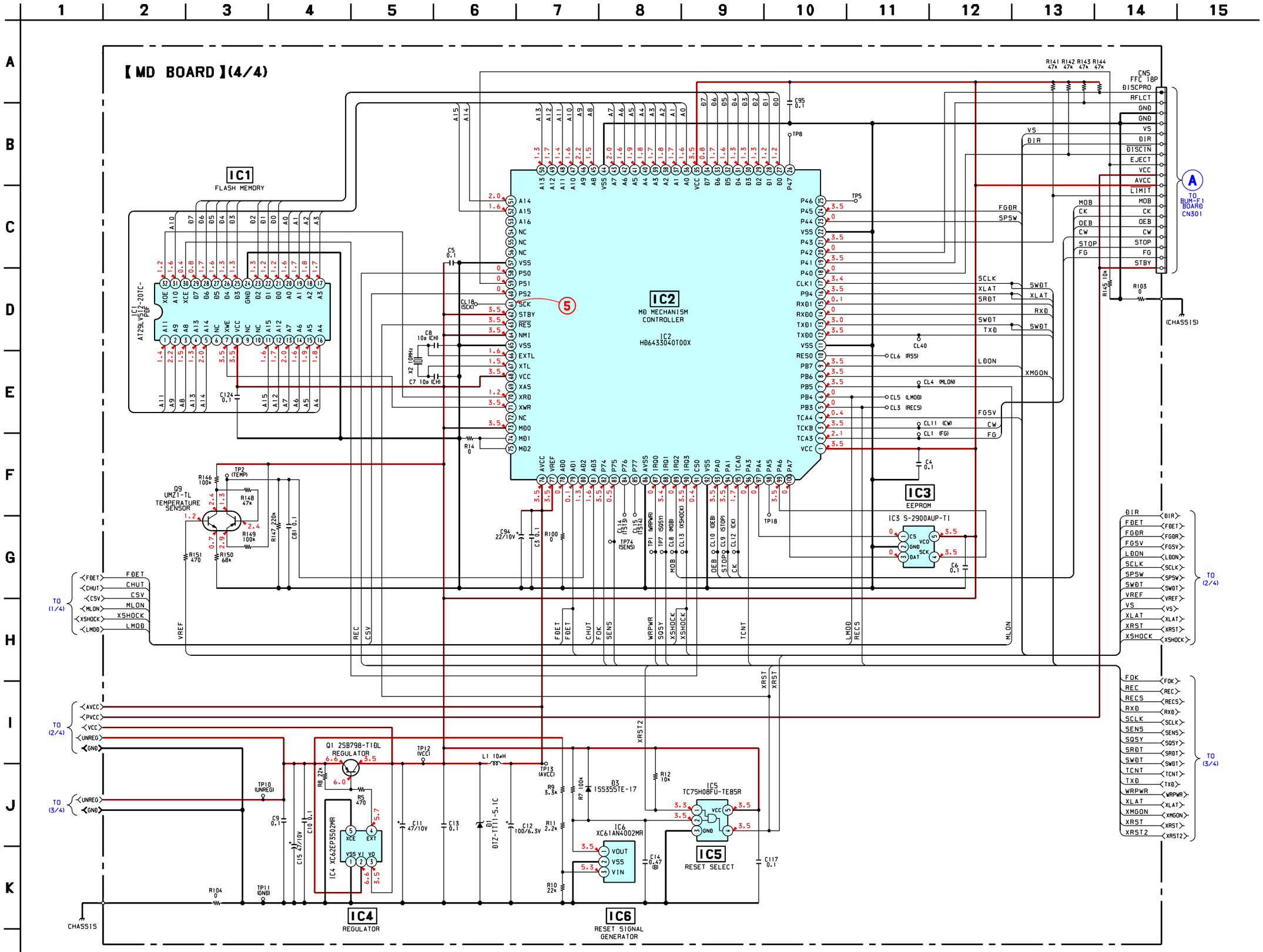


5-6. SCHEMATIC DIAGRAM MD SECTION (3/4)

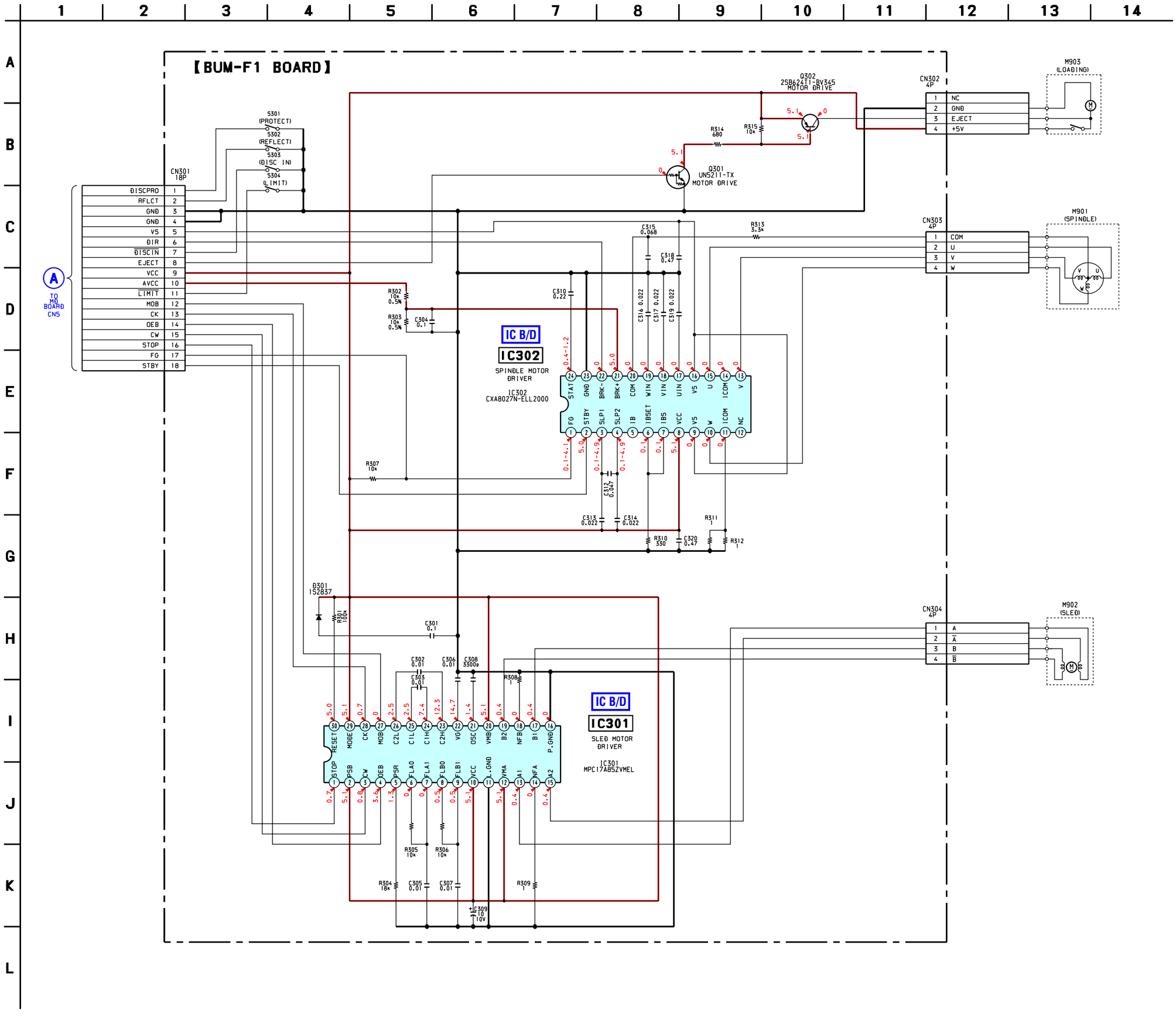
• See page 78 for IC Block Diagrams. • See page 28 for Waveforms.



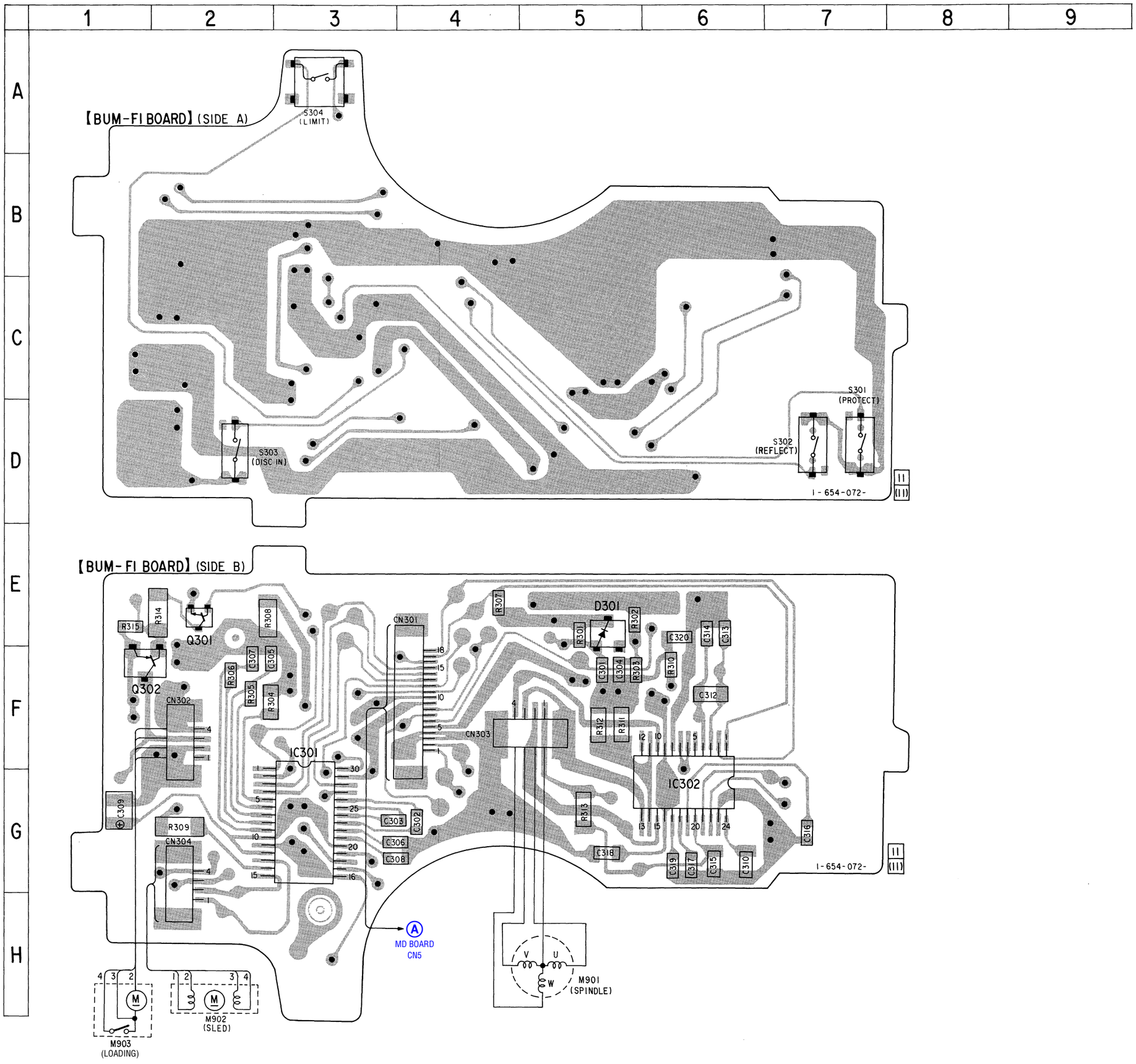
5-7. SCHEMATIC DIAGRAM MD SECTION (4/4) • See page 28 for Wavefoms.



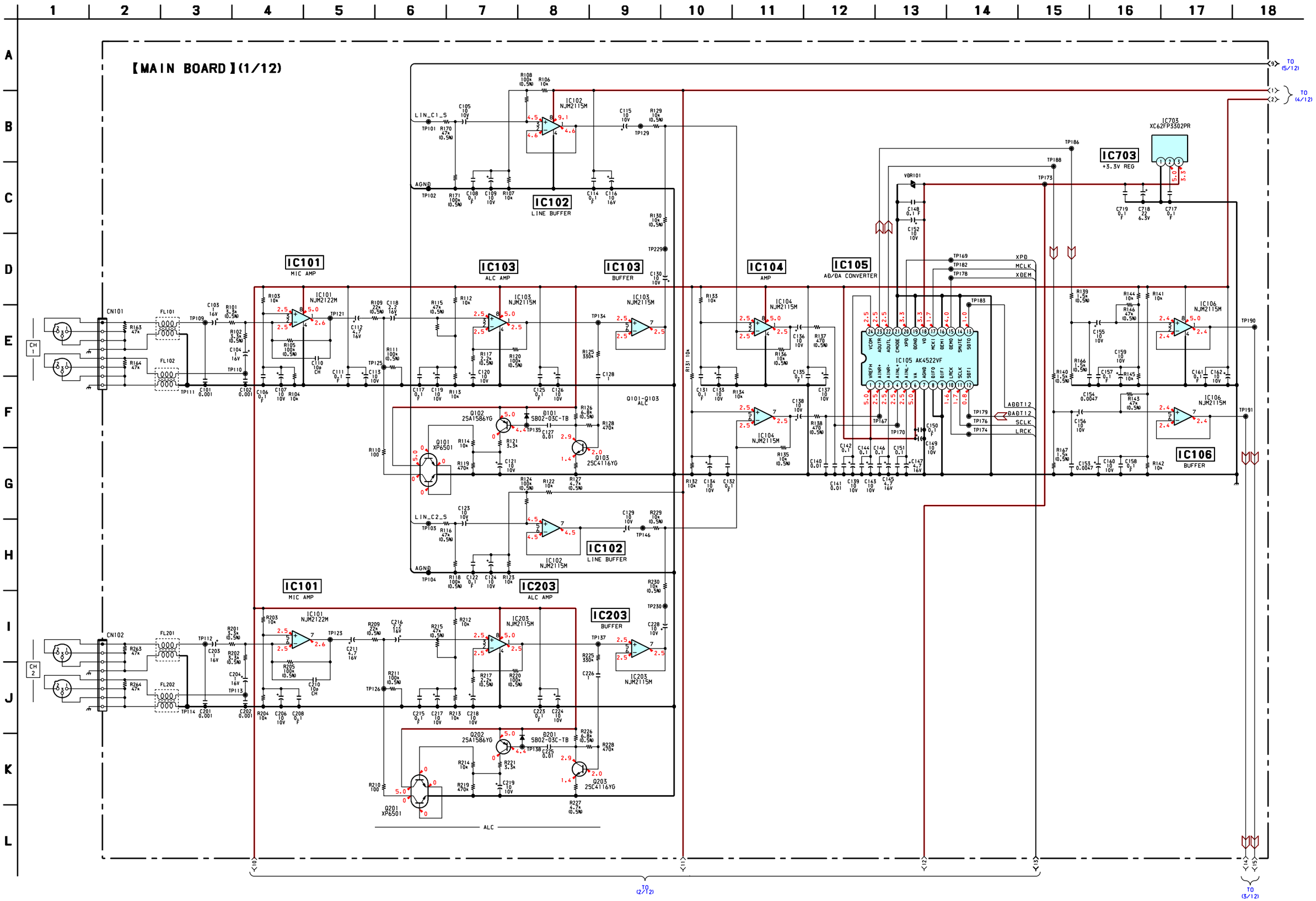
5-8. SCHEMATIC DIAGRAM BUM SECTION • See page 80 for IC Block Diagrams.



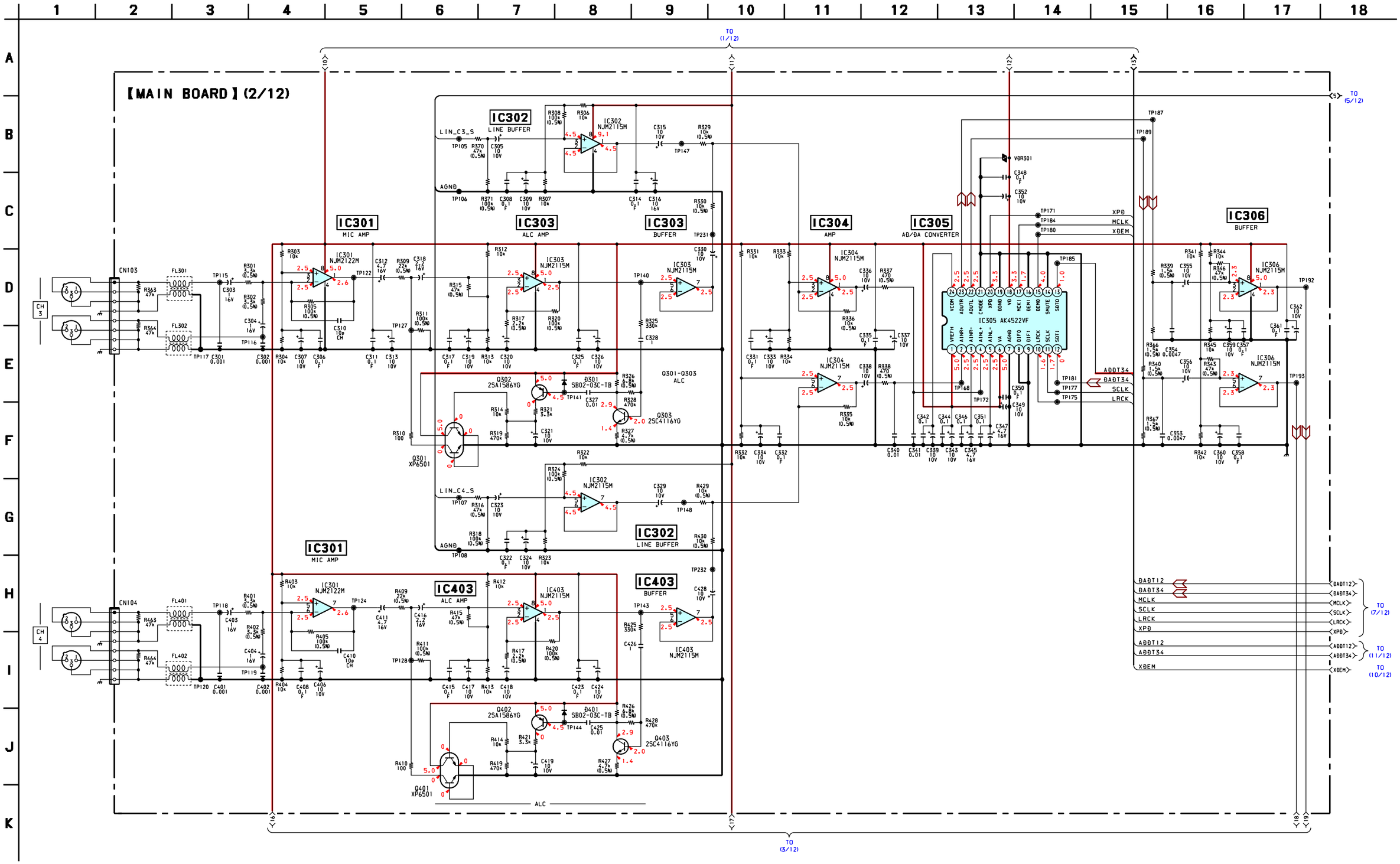
5-9. PRINTED WIRING BOARD BUM SECTION • : Uses unleaded solder. • See page 29 for Circuit Boards Location.



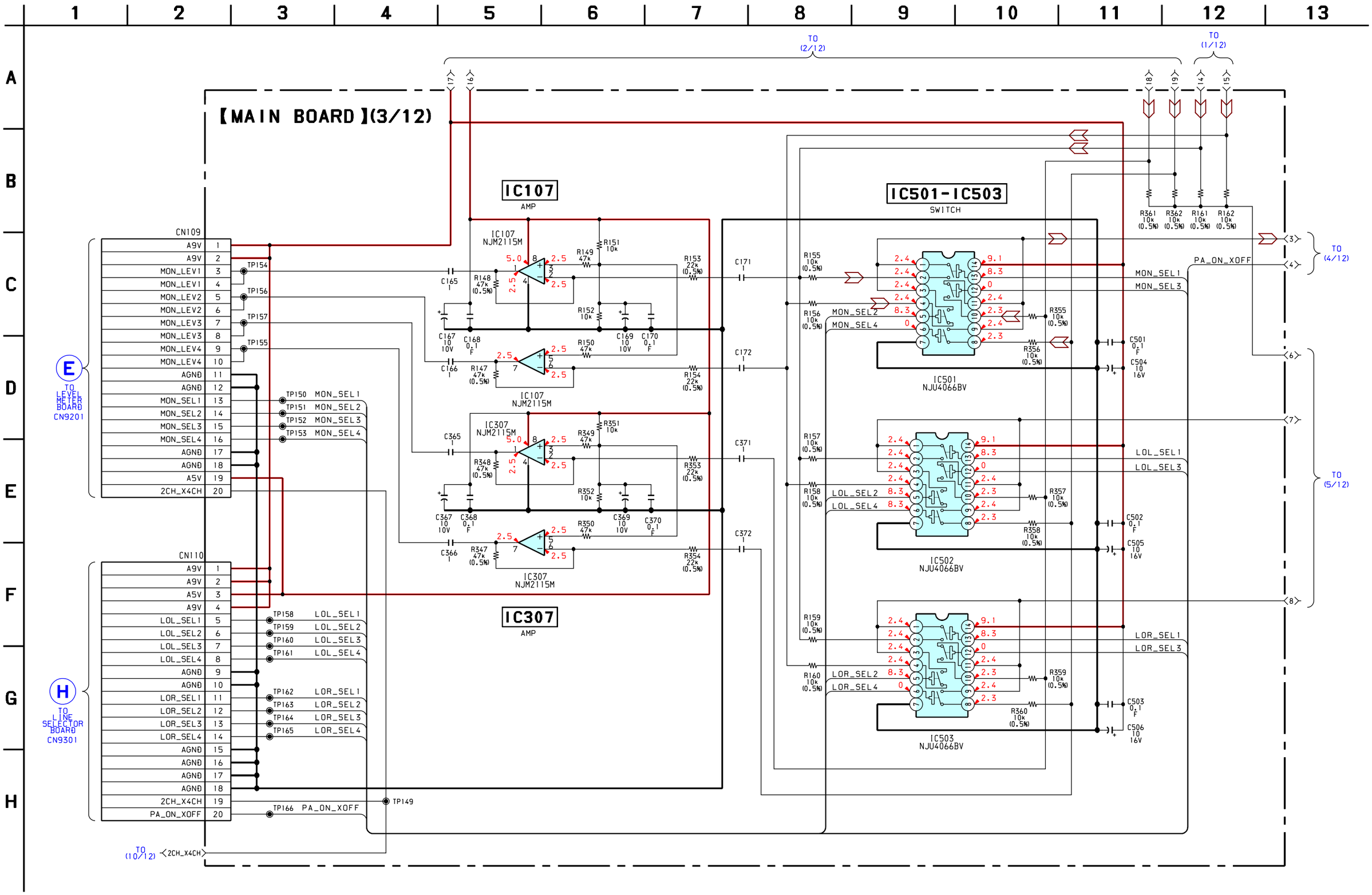
5-10. SCHEMATIC DIAGRAM MAIN SECTION (1/12)



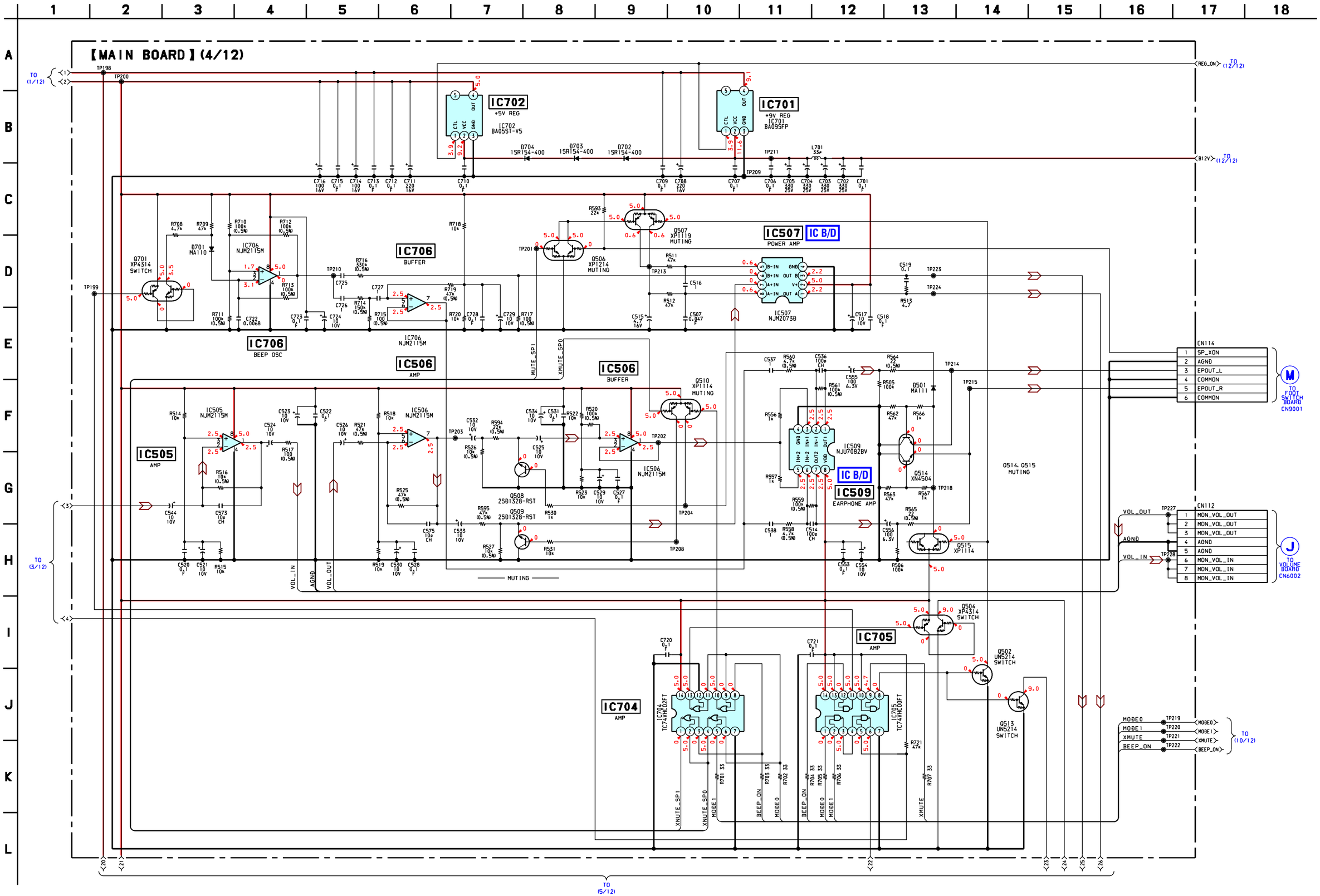
5-11. SCHEMATIC DIAGRAM MAIN SECTION (2/12)



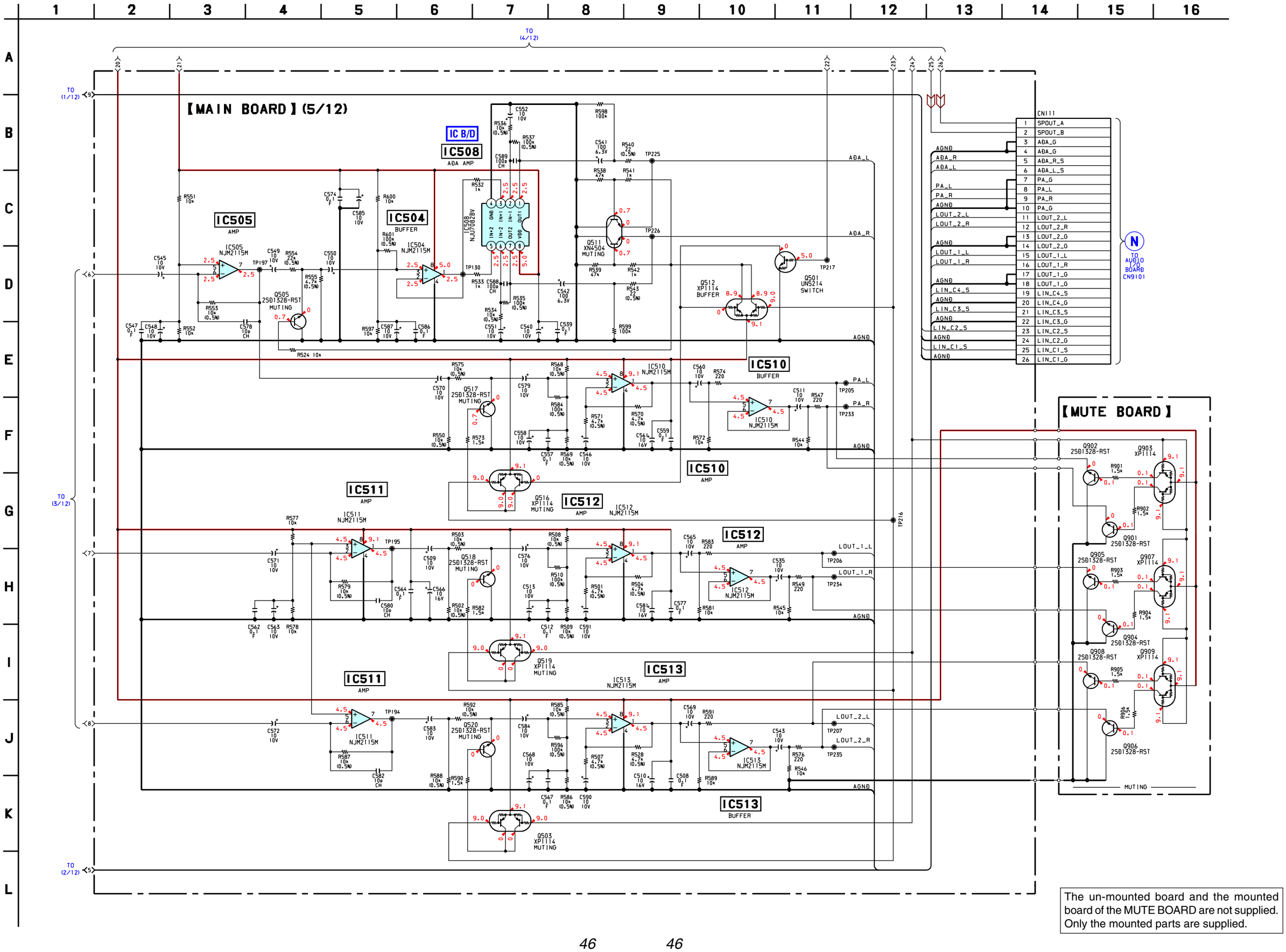
5-12. SCHEMATIC DIAGRAM MAIN SECTION (3/12)



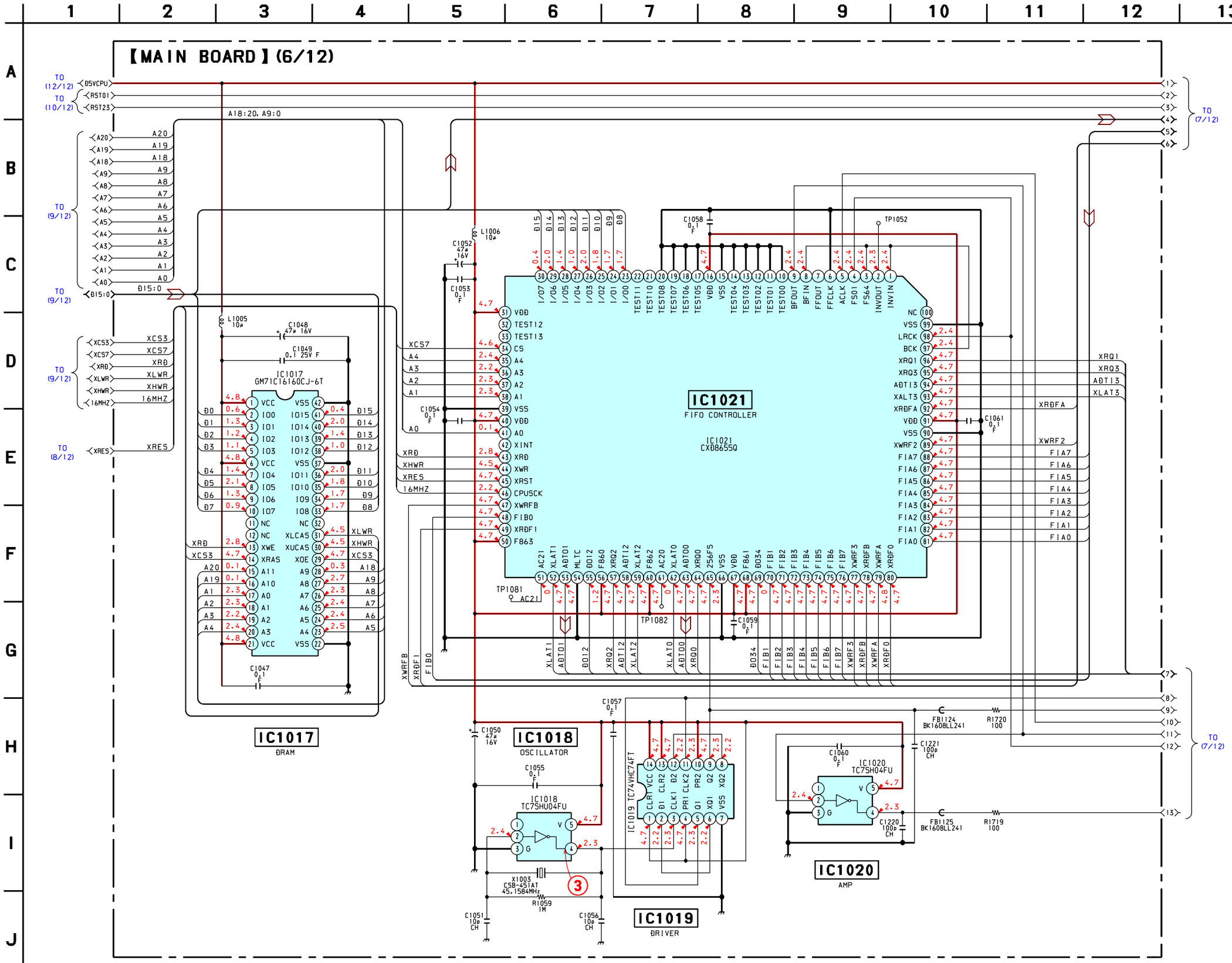
5-13. SCHEMATIC DIAGRAM MAIN SECTION (4/12) • See page 81, 84 for IC Block Diagrams.



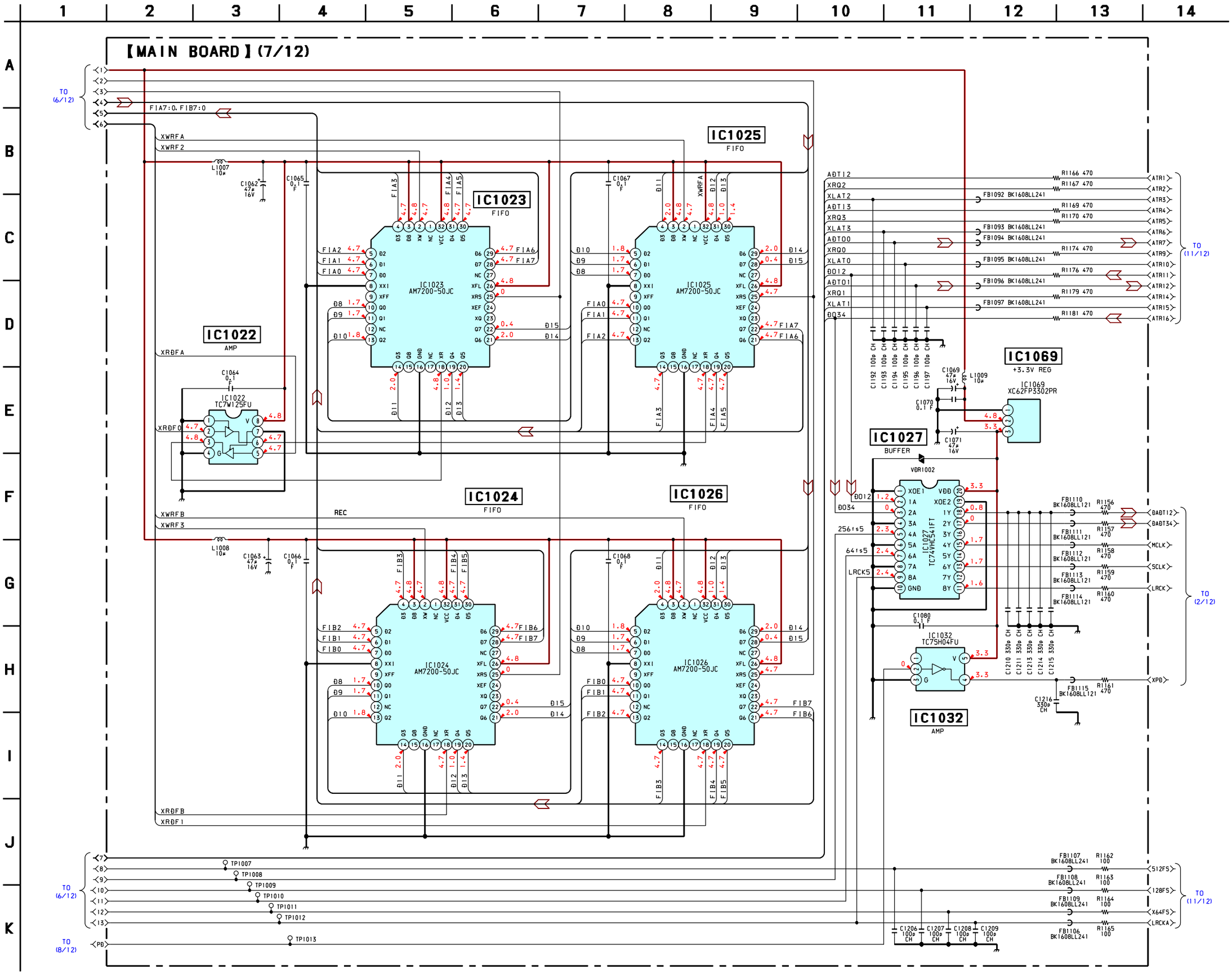
5-14. SCHEMATIC DIAGRAM MAIN SECTION (5/12) • See page 81 for IC Block Diagrams.



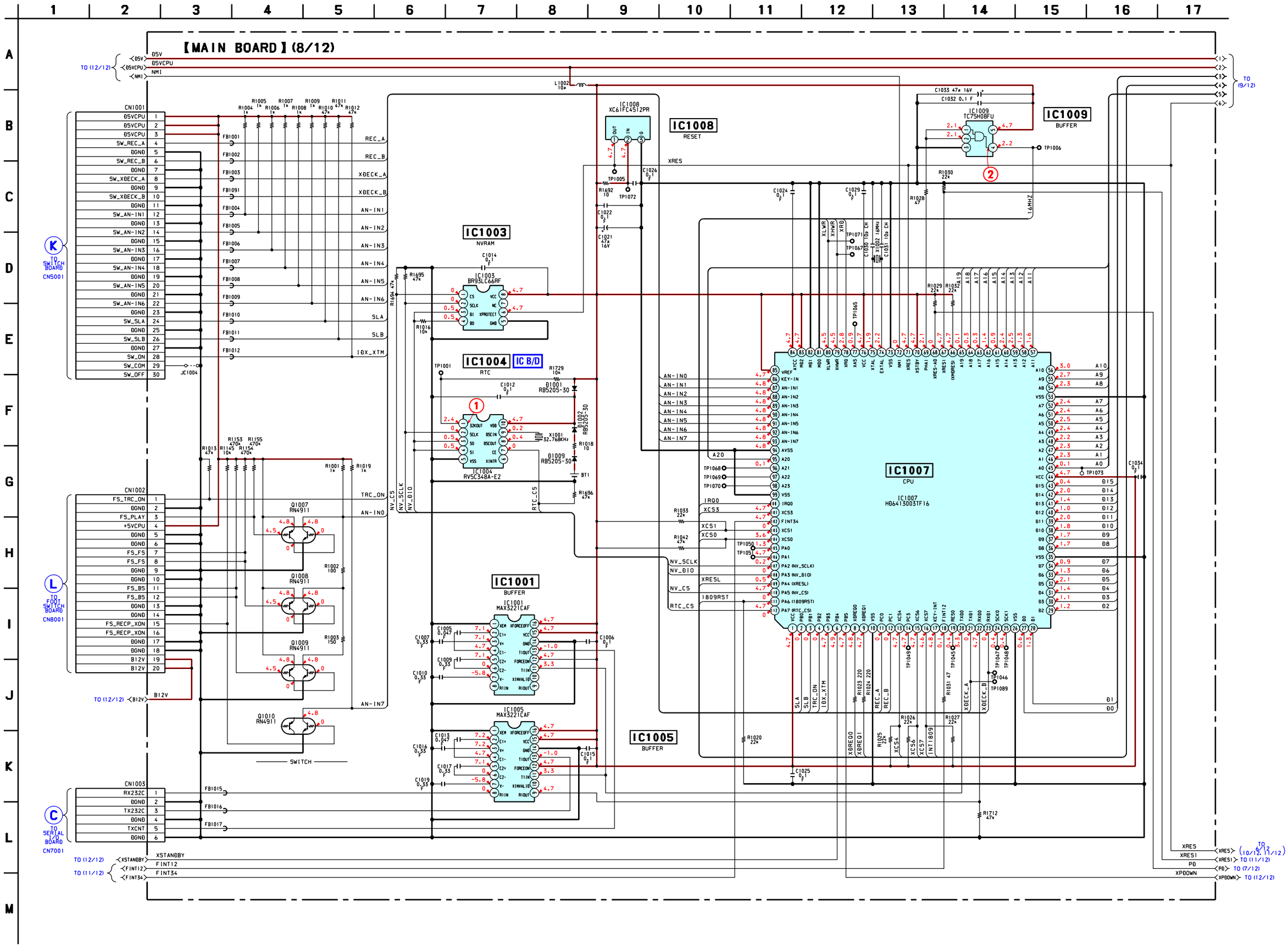
5-15. SCHEMATIC DIAGRAM MAIN SECTION (6/12) • See page 74 for IC Pin Function Description. • See page 28 for Wavefoms.



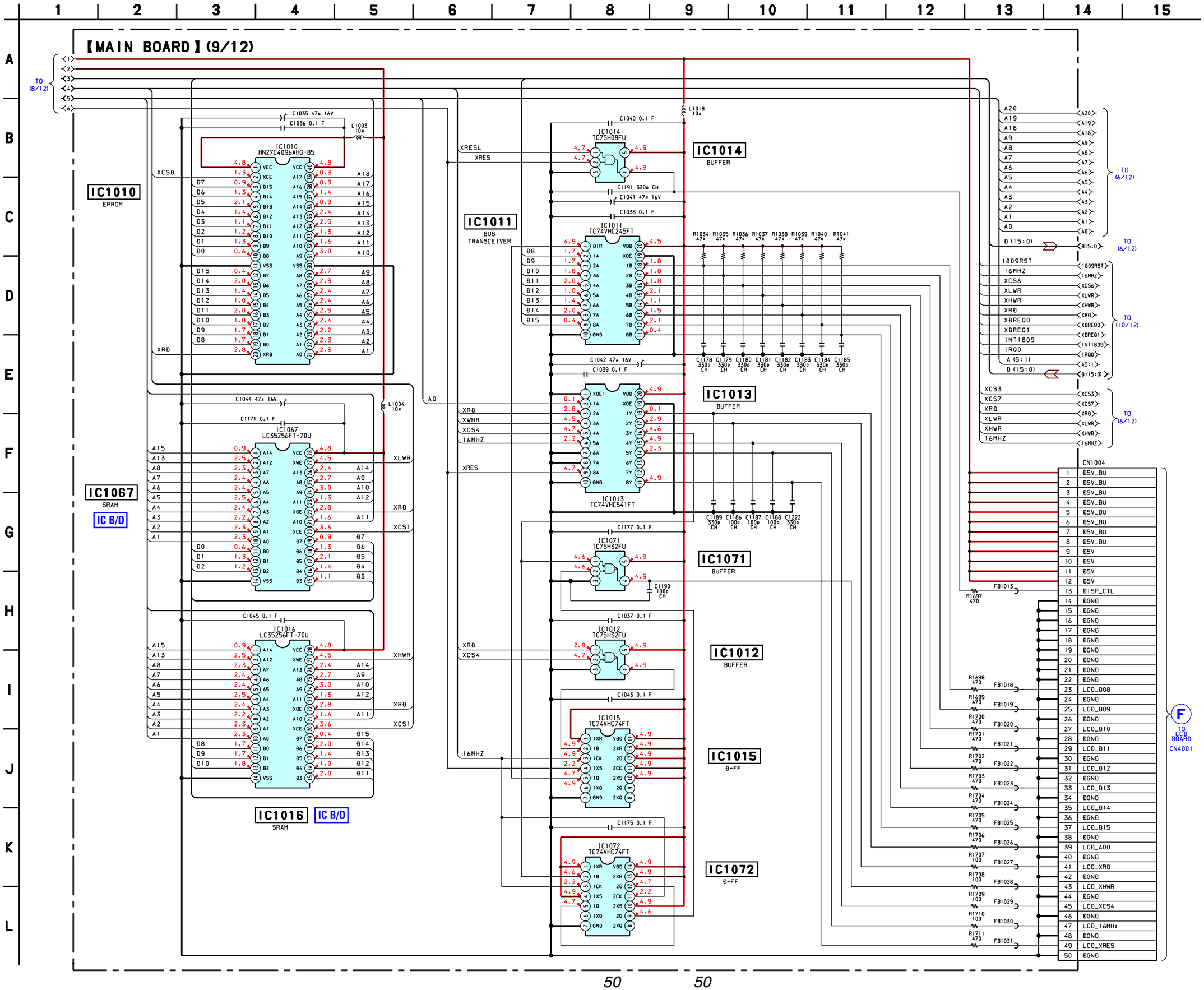
5-16. SCHEMATIC DIAGRAM MAIN SECTION (7/12)



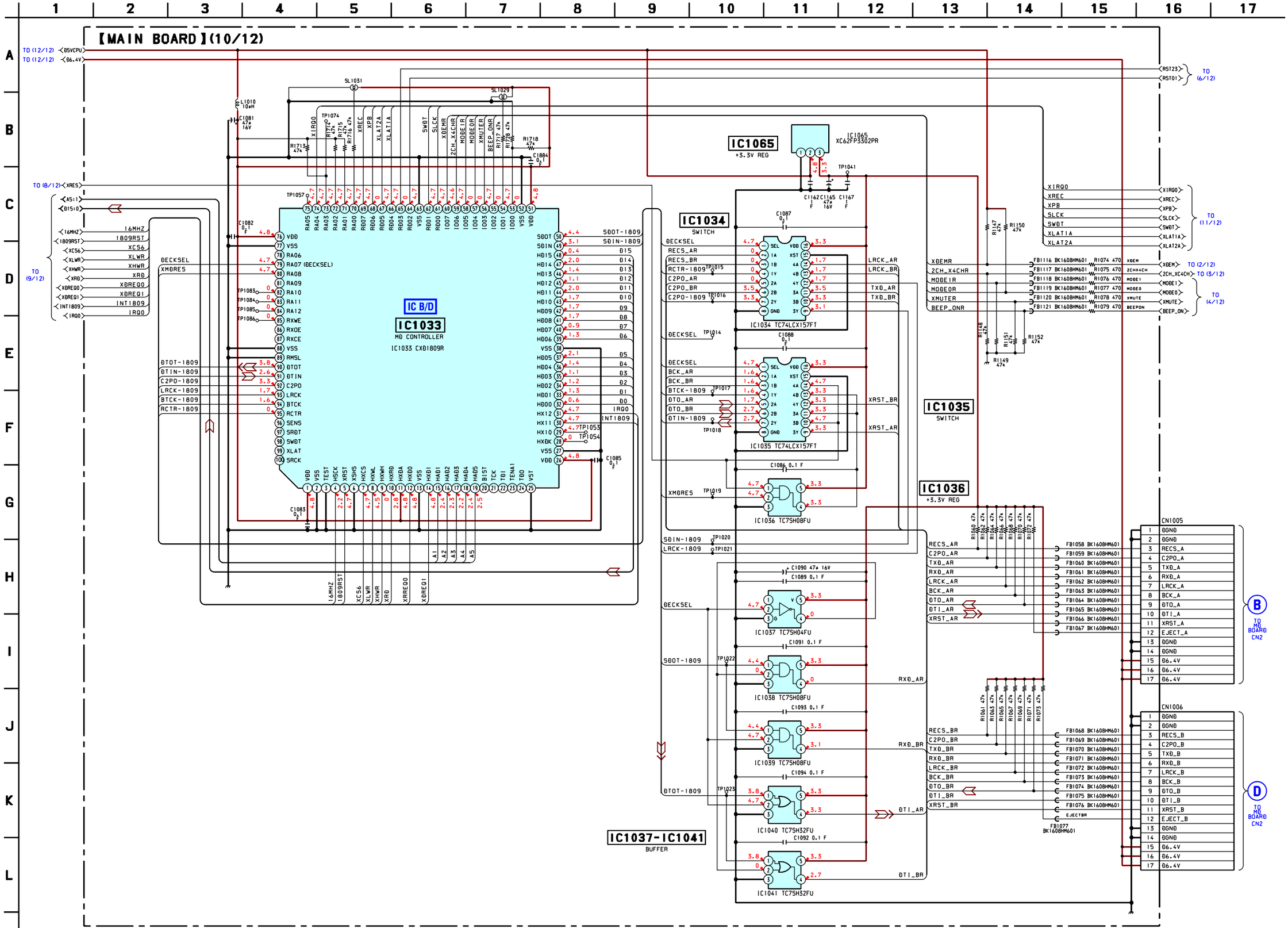
5-17. SCHEMATIC DIAGRAM MAIN SECTION (8/12) • See page 75 for IC Pin Function Description. • See page 28 for Waveforms.



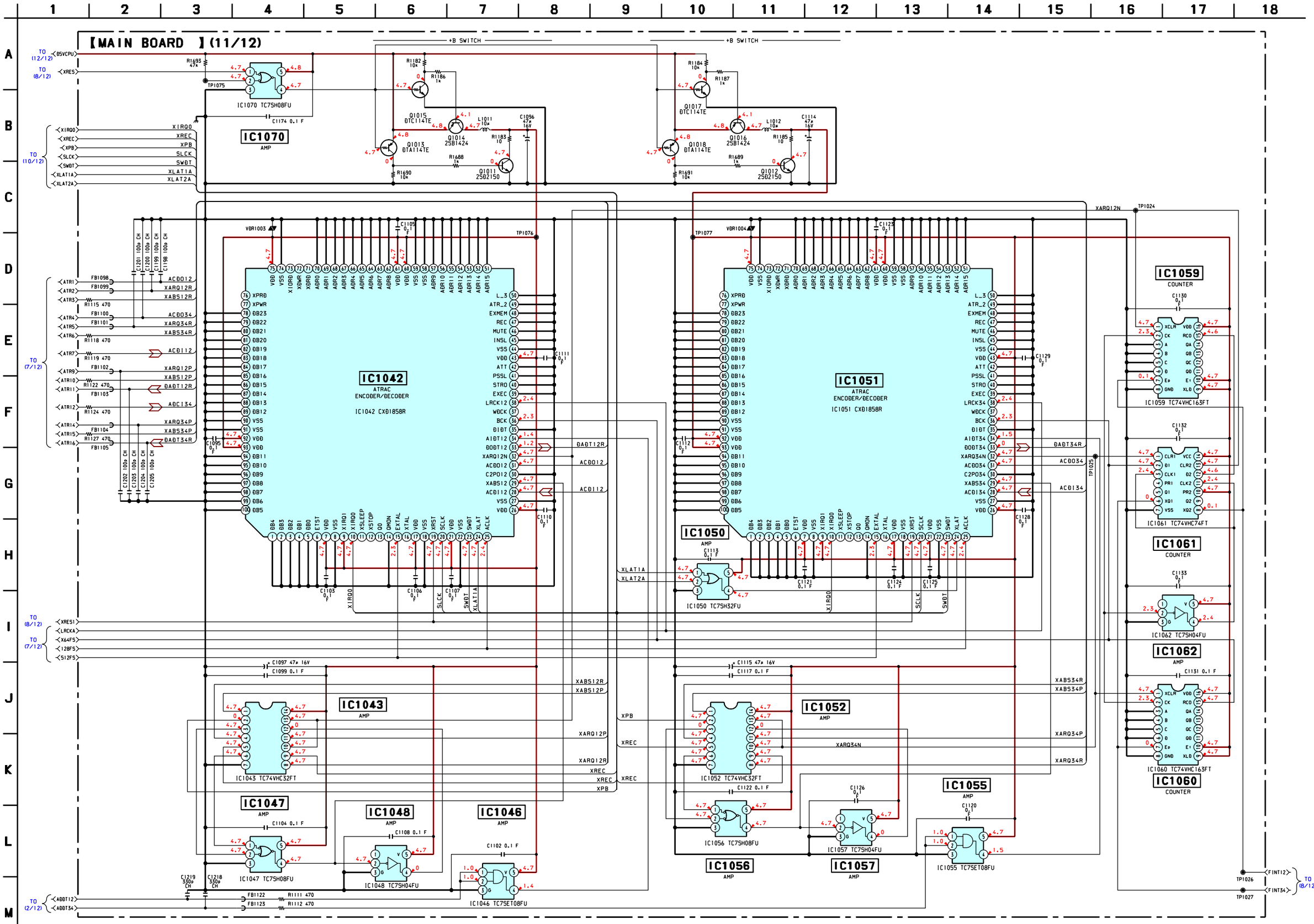
5-18. SCHEMATIC DIAGRAM MAIN SECTION (9/12) • See page 84 for IC Block Diagrams.



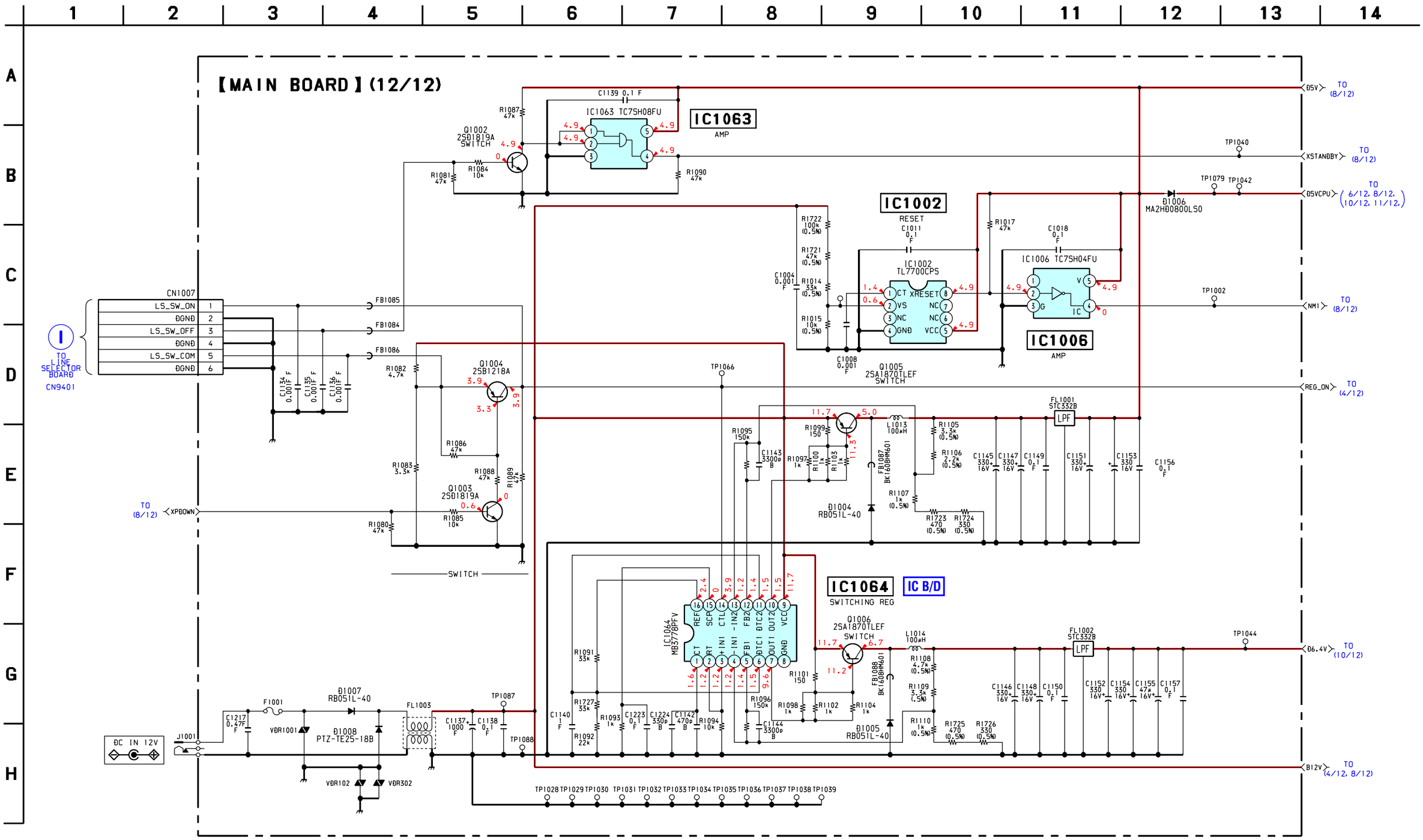
5-19. SCHEMATIC DIAGRAM MAIN SECTION (10/12) • See page 81, 82 for IC Block Diagrams.



5-20. SCHEMATIC DIAGRAM MAIN SECTION (11/12)

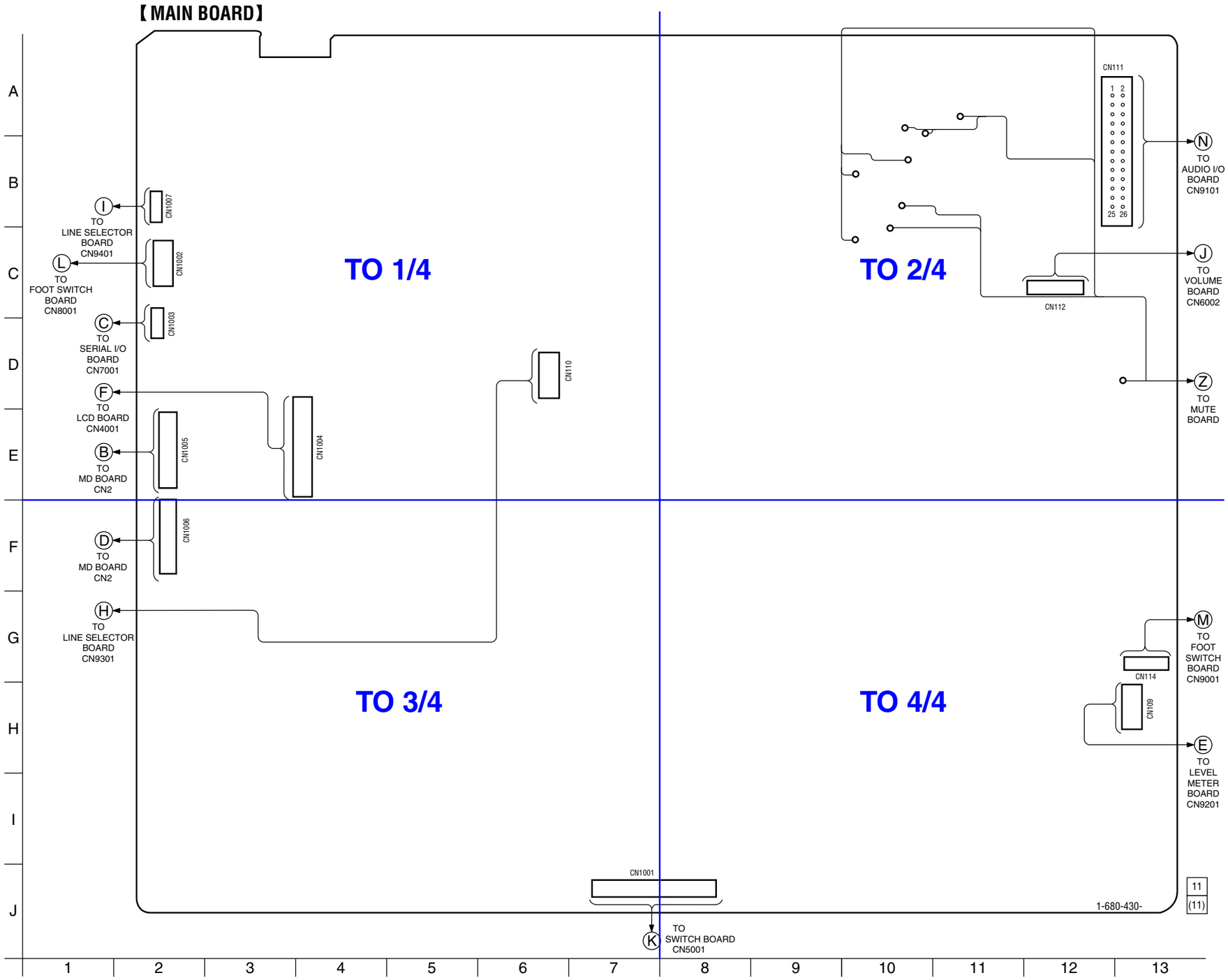


5-21. SCHEMATIC DIAGRAM MAIN SECTION (12/12) • See page 83 for IC Block Diagrams.



5-22. PRINTED WIRING BOARD MAIN SECTION

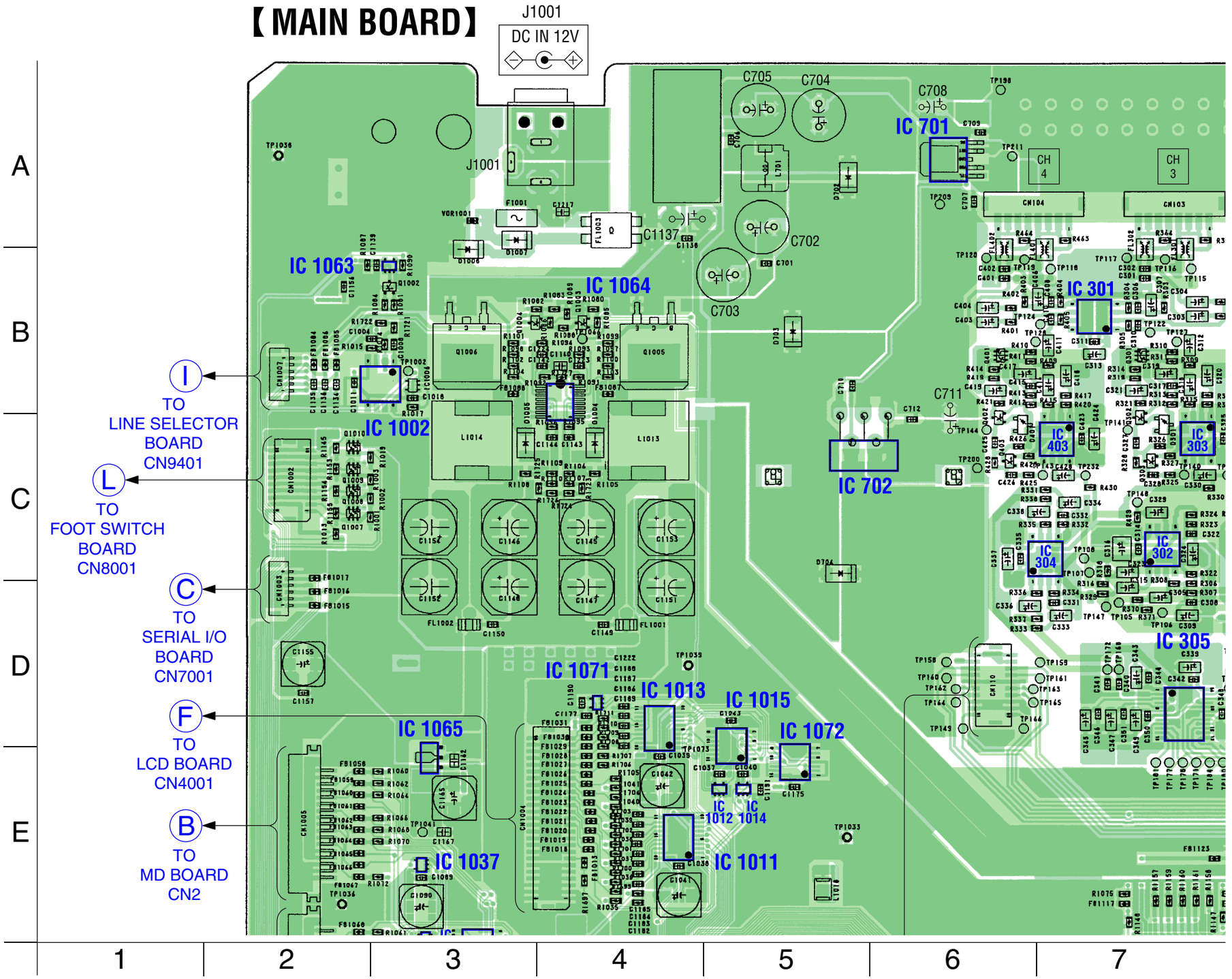
• : Uses unleaded solder. • See page 29 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	B-9	IC1004	J-5	IC1071	D-4
D201	B-8	IC1005	H-6	IC1072	D-5
D301	B-7	IC1006	B-3		
D401	B-6	IC1007	H-5	Q101	B-9
D501	C-13	IC1008	I-2	Q102	B-9
D701	D-11	IC1009	H-3	Q103	B-9
D702	A-6	IC1010	G-5	Q201	B-8
D703	B-5	IC1011	E-5	Q202	B-8
D704	C-5	IC1012	E-5	Q203	C-8
D1001	J-5	IC1013	D-4	Q301	B-7
D1002	J-5	IC1014	E-5	Q302	B-7
D1004	C-4	IC1015	D-5	Q303	C-7
D1005	C-4	IC1016	F-7	Q401	B-6
D1006	H-3	IC1017	G-7	Q402	B-6
D1007	A-4	IC1018	I-6	Q403	C-6
D1008	B-3	IC1019	H-7	Q501	D-12
		IC1020	H-7	Q502	D-13
IC101	B-9	IC1021	H-7	Q503	B-10
IC102	C-9	IC1022	H-9	Q504	D-11
IC103	C-9	IC1023	G-9	Q505	B-11
IC104	C-8	IC1024	H-8	Q506	D-12
IC105	D-9	IC1025	G-8	Q507	B-12
IC106	D-9	IC1026	H-9	Q508	C-11
IC107	F-12	IC1027	G-9	Q509	A-12
IC203	C-8	IC1032	G-8	Q510	D-11
IC301	B-7	IC1033	F-4	Q511	A-11
IC302	C-7	IC1034	F-4	Q512	A-11
IC303	C-7	IC1035	F-3	Q513	D-13
IC304	C-7	IC1036	F-3	Q514	C-12
IC305	D-7	IC1037	E-3	Q515	C-13
IC306	C-9	IC1038	F-3	Q516	B-11
IC307	E-12	IC1039	F-3	Q517	B-11
IC403	C-7	IC1040	F-3	Q518	C-10
IC501	D-11	IC1041	F-3	Q519	B-10
IC502	E-10	IC1042	I-10	Q520	B-10
IC503	D-10	IC1043	I-11	Q701	D-11
IC504	B-11	IC1046	I-11	Q1002	B-3
IC505	C-10	IC1047	I-11	Q1003	B-4
IC506	B-11	IC1048	I-11	Q1004	B-4
IC507	A-12	IC1050	H-10	Q1005	B-4
IC508	A-10	IC1051	G-10	Q1006	B-3
IC509	D-12	IC1052	H-12	Q1007	C-3
IC510	B-10	IC1055	G-11	Q1008	C-3
IC511	C-10	IC1056	G-11	Q1009	C-3
IC512	B-10	IC1057	G-11	Q1010	C-3
IC513	B-10	IC1059	H-10	Q1011	H-10
IC701	A-6	IC1060	H-11	Q1012	G-10
IC702	C-5	IC1061	H-11	Q1013	I-10
IC703	E-8	IC1062	H-10	Q1014	H-10
IC704	D-12	IC1063	B-2	Q1015	I-10
IC705	D-12	IC1064	B-4	Q1016	G-10
IC706	D-11	IC1065	D-3	Q1017	G-10
IC1001	H-6	IC1067	F-6	Q1018	G-10
IC1002	C-3	IC1069	F-8		
IC1003	J-5	IC1070	I-10		

MAIN SECTION (1/4) • : Uses unleaded solder. • See page 29 for Circuit Boards Location.

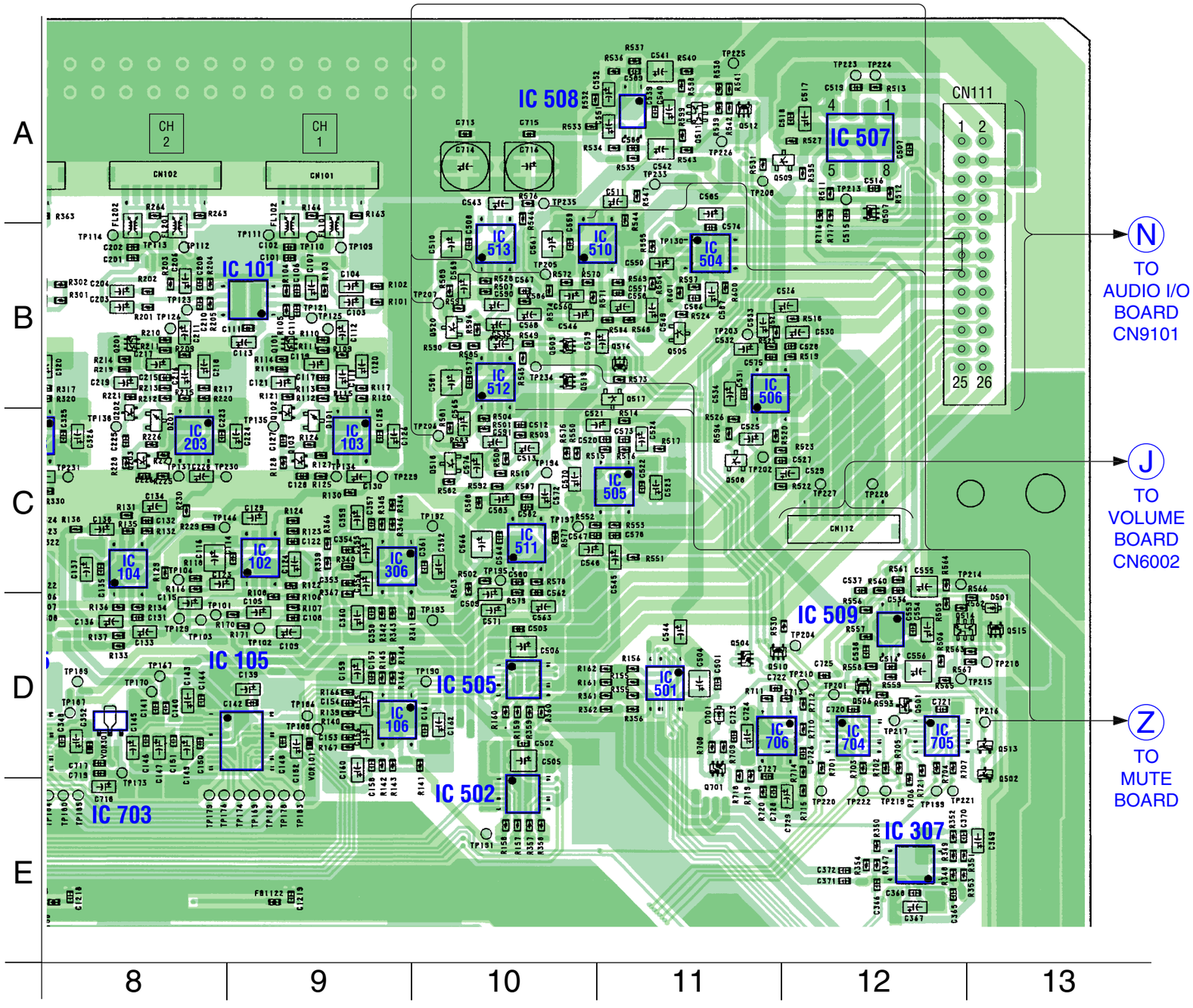


• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	B-9	IC1004	J-5	IC1071	D-4
D201	B-8	IC1005	H-6	IC1072	D-5
D301	B-7	IC1006	B-3		
D401	B-6	IC1007	H-5	Q101	B-9
D501	C-13	IC1008	I-2	Q102	B-9
D701	D-11	IC1009	H-3	Q103	B-9
D702	A-6	IC1010	G-5	Q201	B-8
D703	B-5	IC1011	E-5	Q202	B-8
D704	C-5	IC1012	E-5	Q203	C-8
D1001	J-5	IC1013	D-4	Q301	B-7
D1002	J-5	IC1014	E-5	Q302	B-7
D1004	C-4	IC1015	D-5	Q303	C-7
D1005	C-4	IC1016	F-7	Q401	B-6
D1006	H-3	IC1017	G-7	Q402	B-6
D1007	A-4	IC1018	I-6	Q403	C-6
D1008	B-3	IC1019	H-7	Q501	D-12
		IC1020	H-7	Q502	D-13
IC101	B-9	IC1021	H-7	Q503	B-10
IC102	C-9	IC1022	H-9	Q504	D-11
IC103	C-9	IC1023	G-9	Q505	B-11
IC104	C-8	IC1024	H-8	Q506	D-12
IC105	D-9	IC1025	G-8	Q507	B-12
IC106	D-9	IC1026	H-9	Q508	C-11
IC107	F-12	IC1027	G-9	Q509	A-12
IC203	C-8	IC1032	G-8	Q510	D-11
IC301	B-7	IC1033	F-4	Q511	A-11
IC302	C-7	IC1034	F-4	Q512	A-11
IC303	C-7	IC1035	F-3	Q513	D-13
IC304	C-7	IC1036	F-3	Q514	C-12
IC305	D-7	IC1037	E-3	Q515	C-13
IC306	C-9	IC1038	F-3	Q516	B-11
IC307	E-12	IC1039	F-3	Q517	B-11
IC403	C-7	IC1040	F-3	Q518	C-10
IC501	D-11	IC1041	F-3	Q519	B-10
IC502	E-10	IC1042	I-10	Q520	B-10
IC503	D-10	IC1043	I-11	Q701	D-11
IC504	B-11	IC1046	I-11	Q1002	B-3
IC505	C-10	IC1047	I-11	Q1003	B-4
IC506	B-11	IC1048	I-11	Q1004	B-4
IC507	A-12	IC1050	H-10	Q1005	B-4
IC508	A-10	IC1051	G-10	Q1006	B-3
IC509	D-12	IC1052	H-12	Q1007	C-3
IC510	B-10	IC1055	G-11	Q1008	C-3
IC511	C-10	IC1056	G-11	Q1009	C-3
IC512	B-10	IC1057	G-11	Q1010	C-3
IC513	B-10	IC1059	H-10	Q1011	H-10
IC701	A-6	IC1060	H-11	Q1012	G-10
IC702	C-5	IC1061	H-11	Q1013	I-10
IC703	E-8	IC1062	H-10	Q1014	H-10
IC704	D-12	IC1063	B-2	Q1015	I-10
IC705	D-12	IC1064	B-4	Q1016	G-10
IC706	D-11	IC1065	D-3	Q1017	G-10
IC1001	H-6	IC1067	F-6	Q1018	G-10
IC1002	C-3	IC1069	F-8		
IC1003	J-5	IC1070	I-10		

MDCC-2000

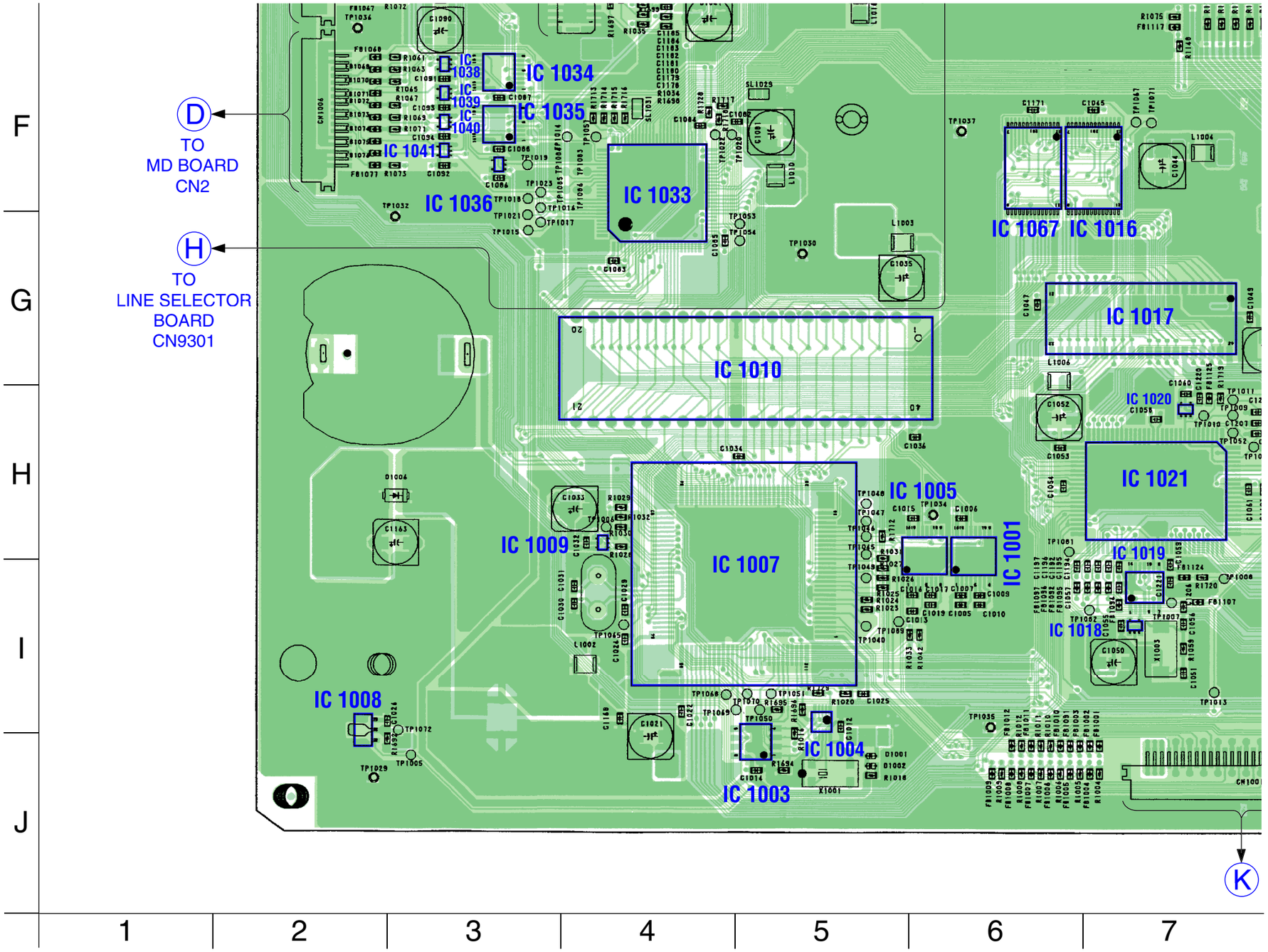
MAIN SECTION (2/4) • : Uses unleaded solder. • See page 29 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	B-9	IC1004	J-5	IC1071	D-4
D201	B-8	IC1005	H-6	IC1072	D-5
D301	B-7	IC1006	B-3		
D401	B-6	IC1007	H-5	Q101	B-9
D501	C-13	IC1008	I-2	Q102	B-9
D701	D-11	IC1009	H-3	Q103	B-9
D702	A-6	IC1010	G-5	Q201	B-8
D703	B-5	IC1011	E-5	Q202	B-8
D704	C-5	IC1012	E-5	Q203	C-8
D1001	J-5	IC1013	D-4	Q301	B-7
D1002	J-5	IC1014	E-5	Q302	B-7
D1004	C-4	IC1015	D-5	Q303	C-7
D1005	C-4	IC1016	F-7	Q401	B-6
D1006	H-3	IC1017	G-7	Q402	B-6
D1007	A-4	IC1018	I-6	Q403	C-6
D1008	B-3	IC1019	H-7	Q501	D-12
		IC1020	H-7	Q502	D-13
IC101	B-9	IC1021	H-7	Q503	B-10
IC102	C-9	IC1022	H-9	Q504	D-11
IC103	C-9	IC1023	G-9	Q505	B-11
IC104	C-8	IC1024	H-8	Q506	D-12
IC105	D-9	IC1025	G-8	Q507	B-12
IC106	D-9	IC1026	H-9	Q508	C-11
IC107	F-12	IC1027	G-9	Q509	A-12
IC203	C-8	IC1032	G-8	Q510	D-11
IC301	B-7	IC1033	F-4	Q511	A-11
IC302	C-7	IC1034	F-4	Q512	A-11
IC303	C-7	IC1035	F-3	Q513	D-13
IC304	C-7	IC1036	F-3	Q514	C-12
IC305	D-7	IC1037	E-3	Q515	C-13
IC306	C-9	IC1038	F-3	Q516	B-11
IC307	E-12	IC1039	F-3	Q517	B-11
IC403	C-7	IC1040	F-3	Q518	C-10
IC501	D-11	IC1041	F-3	Q519	B-10
IC502	E-10	IC1042	I-10	Q520	B-10
IC503	D-10	IC1043	I-11	Q701	D-11
IC504	B-11	IC1046	I-11	Q1002	B-3
IC505	C-10	IC1047	I-11	Q1003	B-4
IC506	B-11	IC1048	I-11	Q1004	B-4
IC507	A-12	IC1050	H-10	Q1005	B-4
IC508	A-10	IC1051	G-10	Q1006	B-3
IC509	D-12	IC1052	H-12	Q1007	C-3
IC510	B-10	IC1055	G-11	Q1008	C-3
IC511	C-10	IC1056	G-11	Q1009	C-3
IC512	B-10	IC1057	G-11	Q1010	C-3
IC513	B-10	IC1059	H-10	Q1011	H-10
IC701	A-6	IC1060	H-11	Q1012	G-10
IC702	C-5	IC1061	H-11	Q1013	I-10
IC703	E-8	IC1062	H-10	Q1014	H-10
IC704	D-12	IC1063	B-2	Q1015	I-10
IC705	D-12	IC1064	B-4	Q1016	G-10
IC706	D-11	IC1065	D-3	Q1017	G-10
IC1001	H-6	IC1067	F-6	Q1018	G-10
IC1002	C-3	IC1069	F-8		
IC1003	J-5	IC1070	I-10		

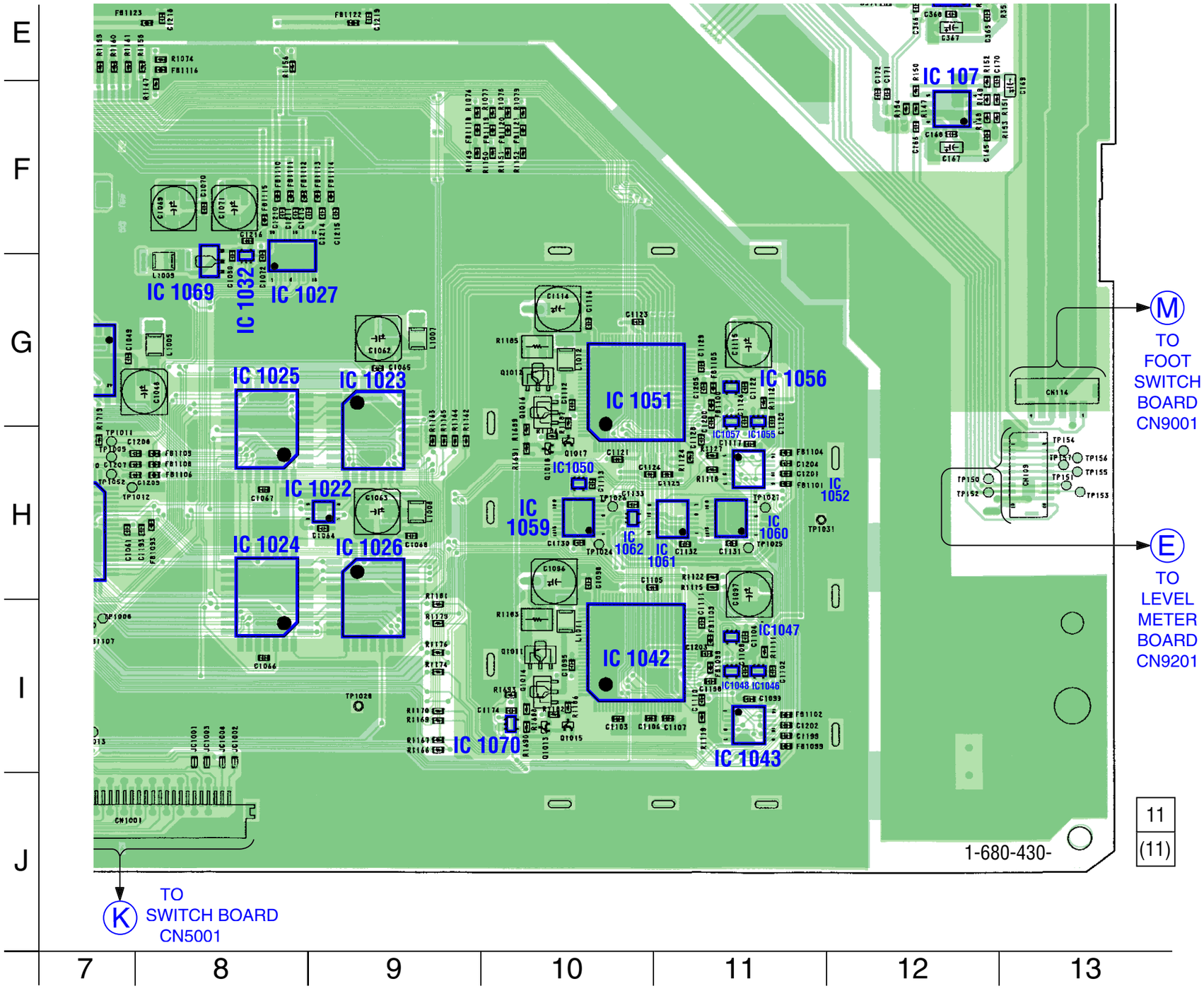
MAIN SECTION (3/4) • : Uses unleaded solder. • See page 29 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	B-9	IC1004	J-5	IC1071	D-4
D201	B-8	IC1005	H-6	IC1072	D-5
D301	B-7	IC1006	B-3		
D401	B-6	IC1007	H-5	Q101	B-9
D501	C-13	IC1008	I-2	Q102	B-9
D701	D-11	IC1009	H-3	Q103	B-9
D702	A-6	IC1010	G-5	Q201	B-8
D703	B-5	IC1011	E-5	Q202	B-8
D704	C-5	IC1012	E-5	Q203	C-8
D1001	J-5	IC1013	D-4	Q301	B-7
D1002	J-5	IC1014	E-5	Q302	B-7
D1004	C-4	IC1015	D-5	Q303	C-7
D1005	C-4	IC1016	F-7	Q401	B-6
D1006	H-3	IC1017	G-7	Q402	B-6
D1007	A-4	IC1018	I-6	Q403	C-6
D1008	B-3	IC1019	H-7	Q501	D-12
		IC1020	H-7	Q502	D-13
IC101	B-9	IC1021	H-7	Q503	B-10
IC102	C-9	IC1022	H-9	Q504	D-11
IC103	C-9	IC1023	G-9	Q505	B-11
IC104	C-8	IC1024	H-8	Q506	D-12
IC105	D-9	IC1025	G-8	Q507	B-12
IC106	D-9	IC1026	H-9	Q508	C-11
IC107	F-12	IC1027	G-9	Q509	A-12
IC203	C-8	IC1032	G-8	Q510	D-11
IC301	B-7	IC1033	F-4	Q511	A-11
IC302	C-7	IC1034	F-4	Q512	A-11
IC303	C-7	IC1035	F-3	Q513	D-13
IC304	C-7	IC1036	F-3	Q514	C-12
IC305	D-7	IC1037	E-3	Q515	C-13
IC306	C-9	IC1038	F-3	Q516	B-11
IC307	E-12	IC1039	F-3	Q517	B-11
IC403	C-7	IC1040	F-3	Q518	C-10
IC501	D-11	IC1041	F-3	Q519	B-10
IC502	E-10	IC1042	I-10	Q520	B-10
IC503	D-10	IC1043	I-11	Q701	D-11
IC504	B-11	IC1046	I-11	Q1002	B-3
IC505	C-10	IC1047	I-11	Q1003	B-4
IC506	B-11	IC1048	I-11	Q1004	B-4
IC507	A-12	IC1050	H-10	Q1005	B-4
IC508	A-10	IC1051	G-10	Q1006	B-3
IC509	D-12	IC1052	H-12	Q1007	C-3
IC510	B-10	IC1055	G-11	Q1008	C-3
IC511	C-10	IC1056	G-11	Q1009	C-3
IC512	B-10	IC1057	G-11	Q1010	C-3
IC513	B-10	IC1059	H-10	Q1011	H-10
IC701	A-6	IC1060	H-11	Q1012	G-10
IC702	C-5	IC1061	H-11	Q1013	I-10
IC703	E-8	IC1062	H-10	Q1014	H-10
IC704	D-12	IC1063	B-2	Q1015	I-10
IC705	D-12	IC1064	B-4	Q1016	G-10
IC706	D-11	IC1065	D-3	Q1017	G-10
IC1001	H-6	IC1067	F-6	Q1018	G-10
IC1002	C-3	IC1069	F-8		
IC1003	J-5	IC1070	I-10		

MAIN SECTION (4/4) • : Uses unleaded solder. • See page 29 for Circuit Boards Location.



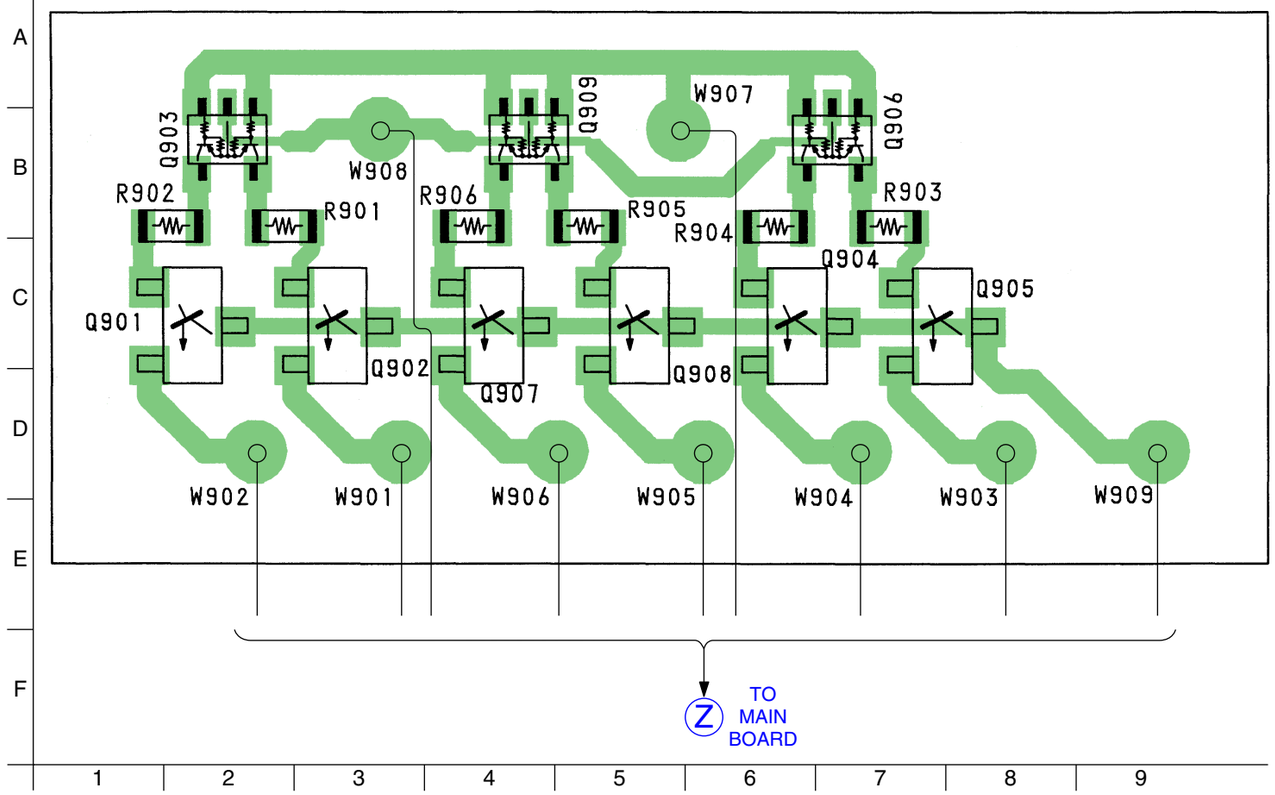
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	B-9	IC1004	J-5	IC1071	D-4
D201	B-8	IC1005	H-6	IC1072	D-5
D301	B-7	IC1006	B-3		
D401	B-6	IC1007	H-5	Q101	B-9
D501	C-13	IC1008	I-2	Q102	B-9
D701	D-11	IC1009	H-3	Q103	B-9
D702	A-6	IC1010	G-5	Q201	B-8
D703	B-5	IC1011	E-5	Q202	B-8
D704	C-5	IC1012	E-5	Q203	C-8
D1001	J-5	IC1013	D-4	Q301	B-7
D1002	J-5	IC1014	E-5	Q302	B-7
D1004	C-4	IC1015	D-5	Q303	C-7
D1005	C-4	IC1016	F-7	Q401	B-6
D1006	H-3	IC1017	G-7	Q402	B-6
D1007	A-4	IC1018	I-6	Q403	C-6
D1008	B-3	IC1019	H-7	Q501	D-12
		IC1020	H-7	Q502	D-13
IC101	B-9	IC1021	H-7	Q503	B-10
IC102	C-9	IC1022	H-9	Q504	D-11
IC103	C-9	IC1023	G-9	Q505	B-11
IC104	C-8	IC1024	H-8	Q506	D-12
IC105	D-9	IC1025	G-8	Q507	B-12
IC106	D-9	IC1026	H-9	Q508	C-11
IC107	F-12	IC1027	G-9	Q509	A-12
IC203	C-8	IC1032	G-8	Q510	D-11
IC301	B-7	IC1033	F-4	Q511	A-11
IC302	C-7	IC1034	F-4	Q512	A-11
IC303	C-7	IC1035	F-3	Q513	D-13
IC304	C-7	IC1036	F-3	Q514	C-12
IC305	D-7	IC1037	E-3	Q515	C-13
IC306	C-9	IC1038	F-3	Q516	B-11
IC307	E-12	IC1039	F-3	Q517	B-11
IC403	C-7	IC1040	F-3	Q518	C-10
IC501	D-11	IC1041	F-3	Q519	B-10
IC502	E-10	IC1042	I-10	Q520	B-10
IC503	D-10	IC1043	I-11	Q701	D-11
IC504	B-11	IC1046	I-11	Q1002	B-3
IC505	C-10	IC1047	I-11	Q1003	B-4
IC506	B-11	IC1048	I-11	Q1004	B-4
IC507	A-12	IC1050	H-10	Q1005	B-4
IC508	A-10	IC1051	G-10	Q1006	B-3
IC509	D-12	IC1052	H-12	Q1007	C-3
IC510	B-10	IC1055	G-11	Q1008	C-3
IC511	C-10	IC1056	G-11	Q1009	C-3
IC512	B-10	IC1057	G-11	Q1010	C-3
IC513	B-10	IC1059	H-10	Q1011	H-10
IC701	A-6	IC1060	H-11	Q1012	G-10
IC702	C-5	IC1061	H-11	Q1013	I-10
IC703	E-8	IC1062	H-10	Q1014	H-10
IC704	D-12	IC1063	B-2	Q1015	I-10
IC705	D-12	IC1064	B-4	Q1016	G-10
IC706	D-11	IC1065	D-3	Q1017	G-10
IC1001	H-6	IC1067	F-6	Q1018	G-10
IC1002	C-3	IC1069	F-8		
IC1003	J-5	IC1070	I-10		

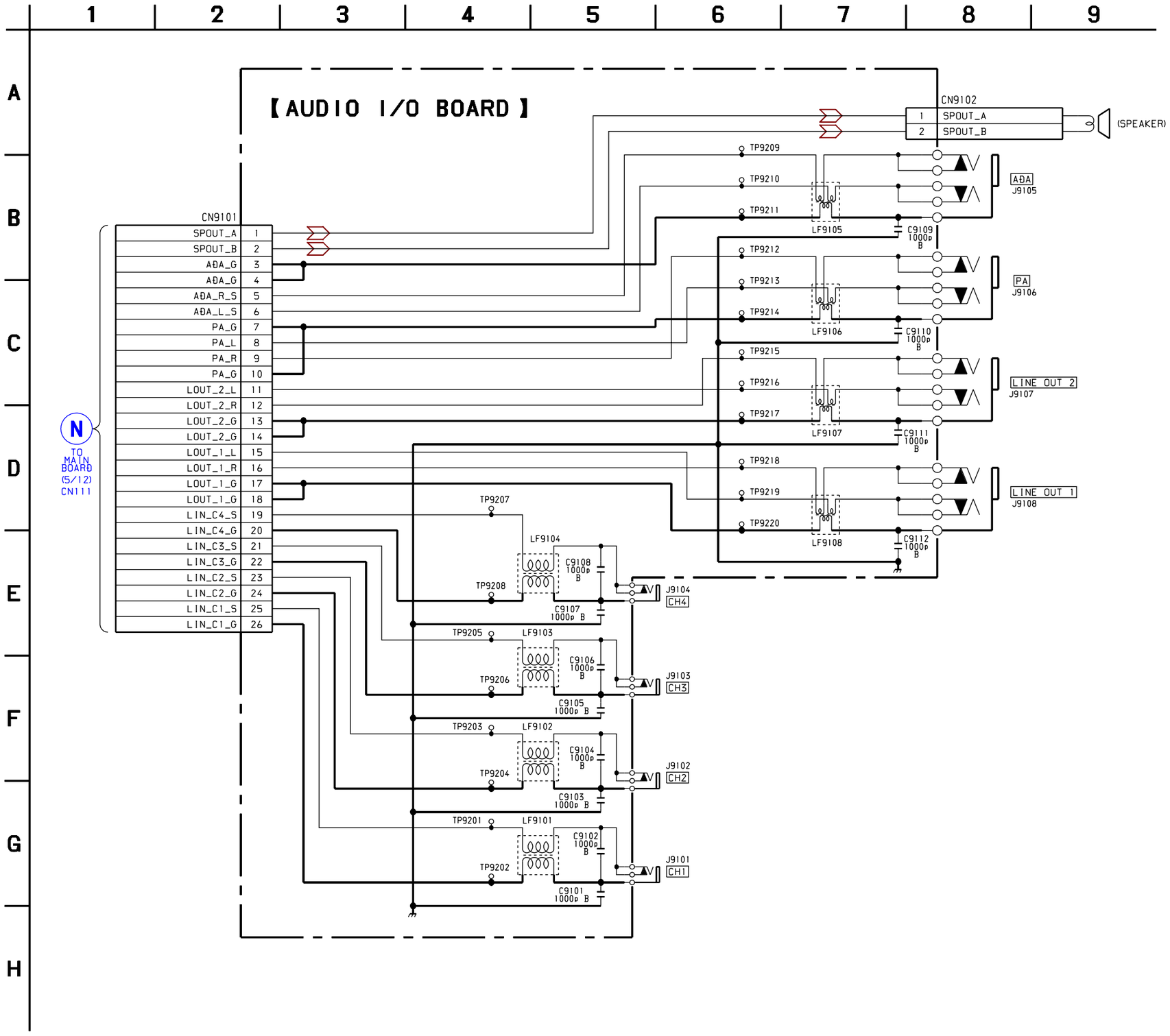
5-23. PRINTED WIRING BOARD MUTE SECTION • : Uses unleaded solder. • See page 29 for Circuit Boards Location.

The un-mounted board and the mounted board of the MUTE BOARD are not supplied. Only the mounted parts are supplied.

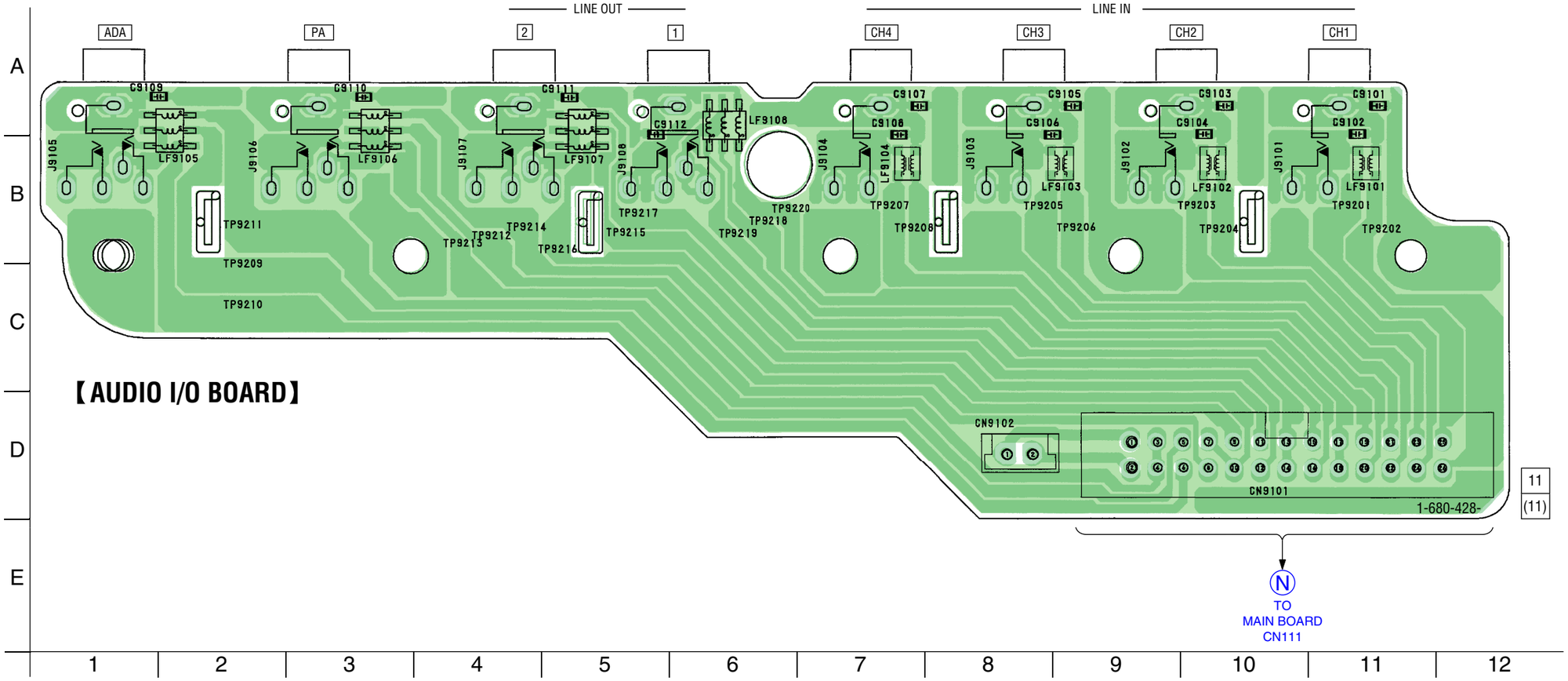
【MUTE BOARD】



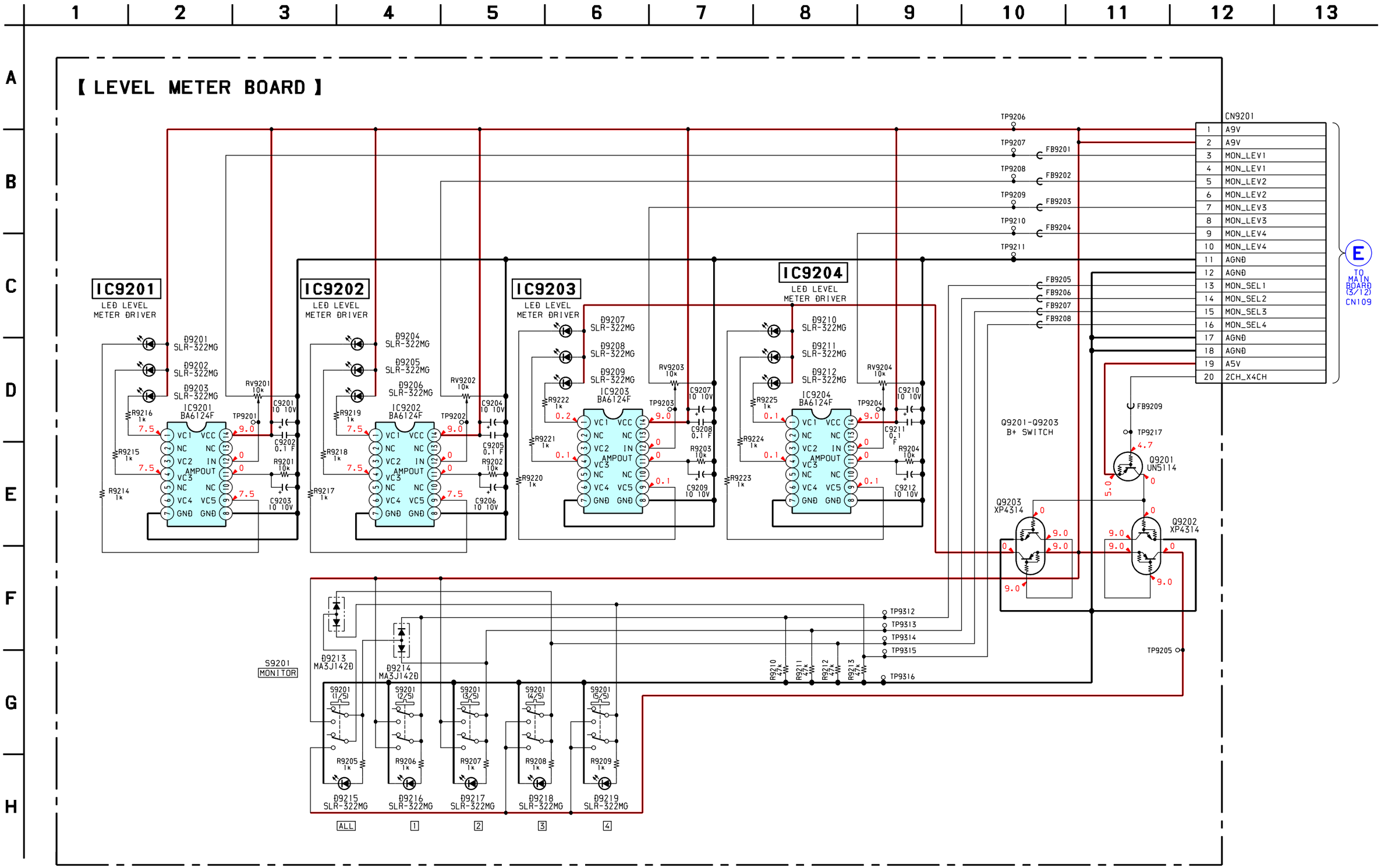
5-24. SCHEMATIC DIAGRAM AUDIO SECTION



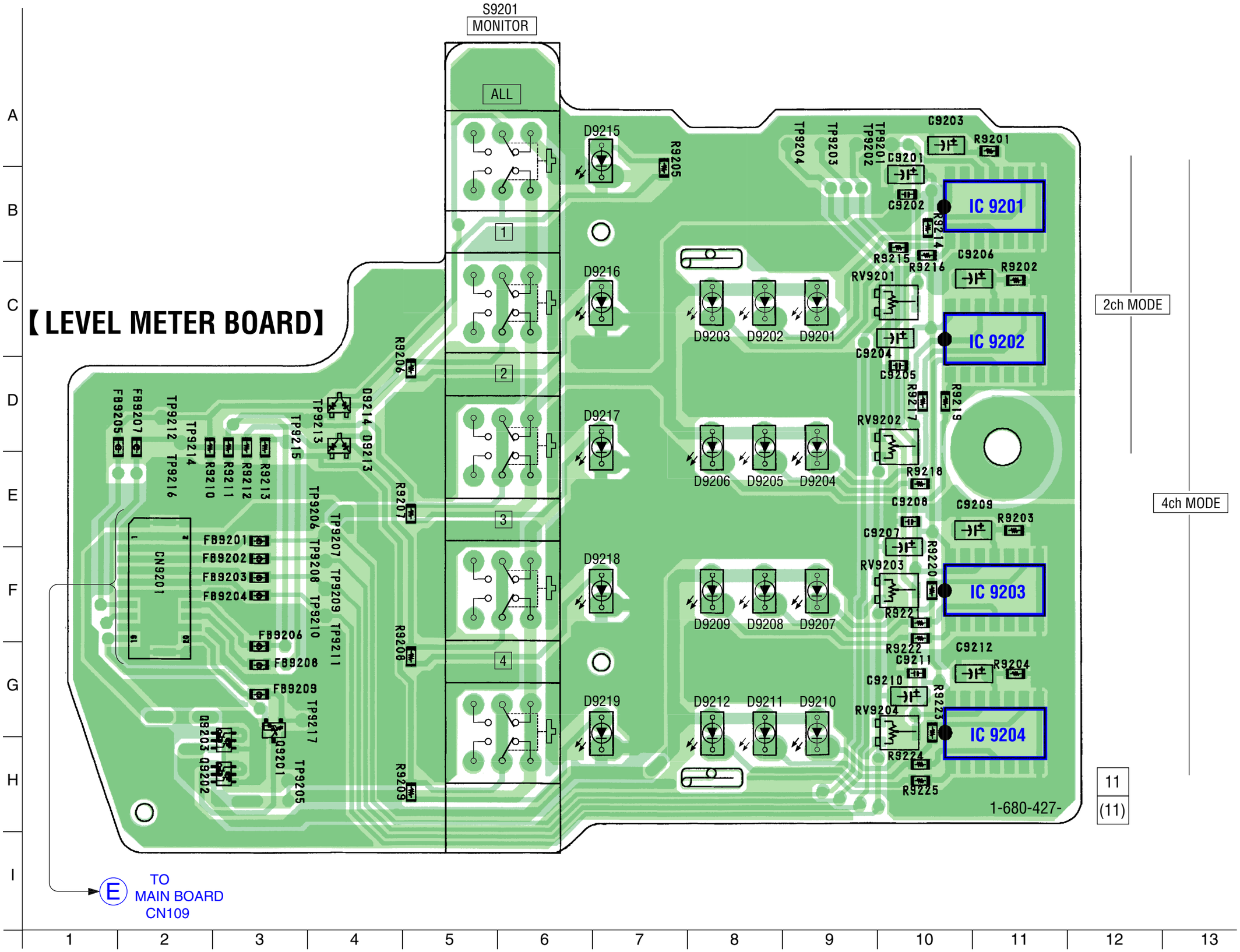
5-25. PRINTED WIRING BOARD AUDIO SECTION • : Uses unleaded solder. • See page 29 for Circuit Boards Location.



5-26. SCHEMATIC DIAGRAM LEVEL METER SECTION



5-27. PRINTED WIRING BOARD LEVEL METER SECTION • : Uses unleaded solder. • See page 29 for Circuit Boards Location.

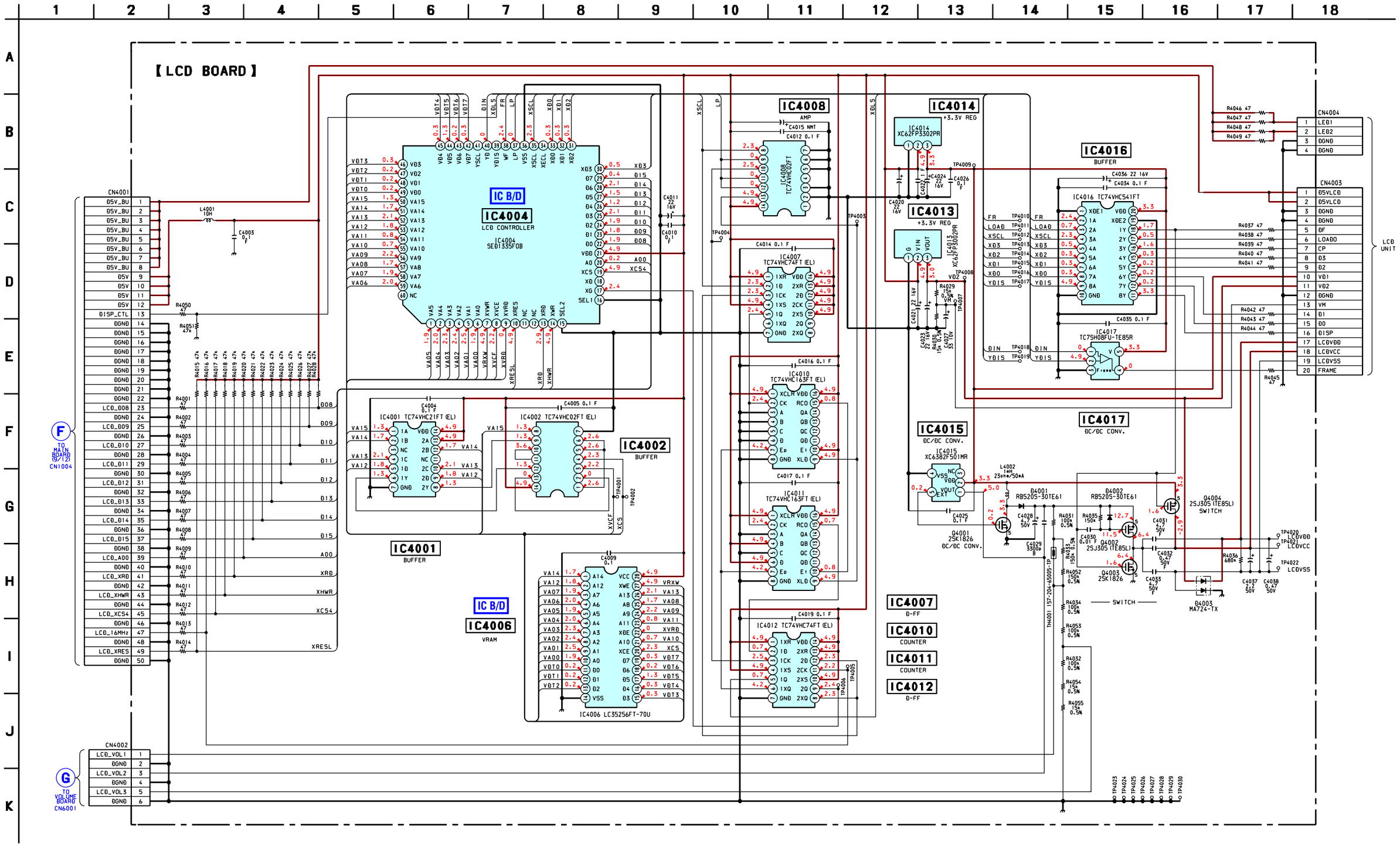


• **Semiconductor Location**

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

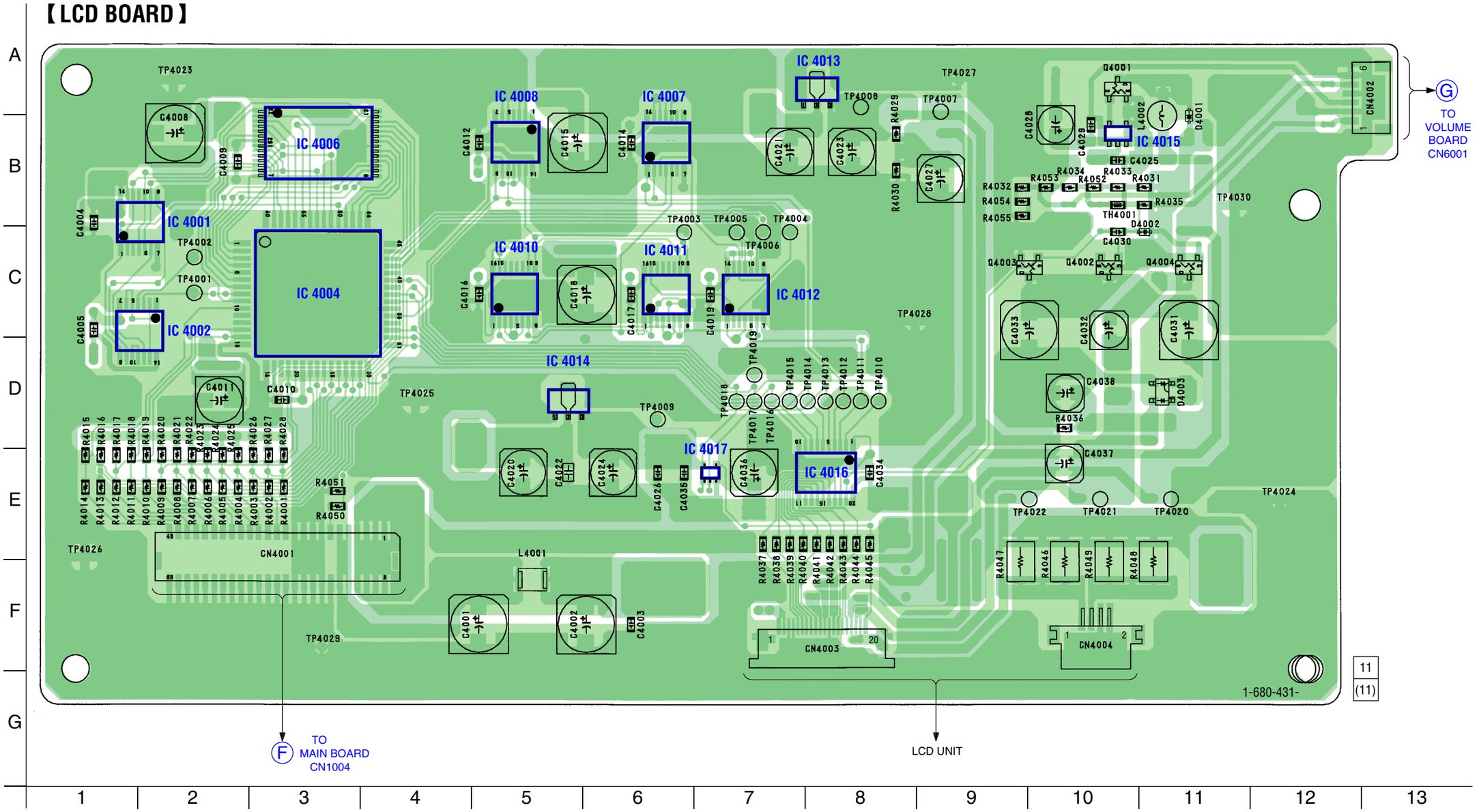
5-28. SCHEMATIC DIAGRAM LCD SECTION

• See page 79 for IC Block Diagrams.



5-29. PRINTED WIRING BOARD LCD SECTION • : Uses unleaded solder. • See page 29 for Circuit Boards Location.

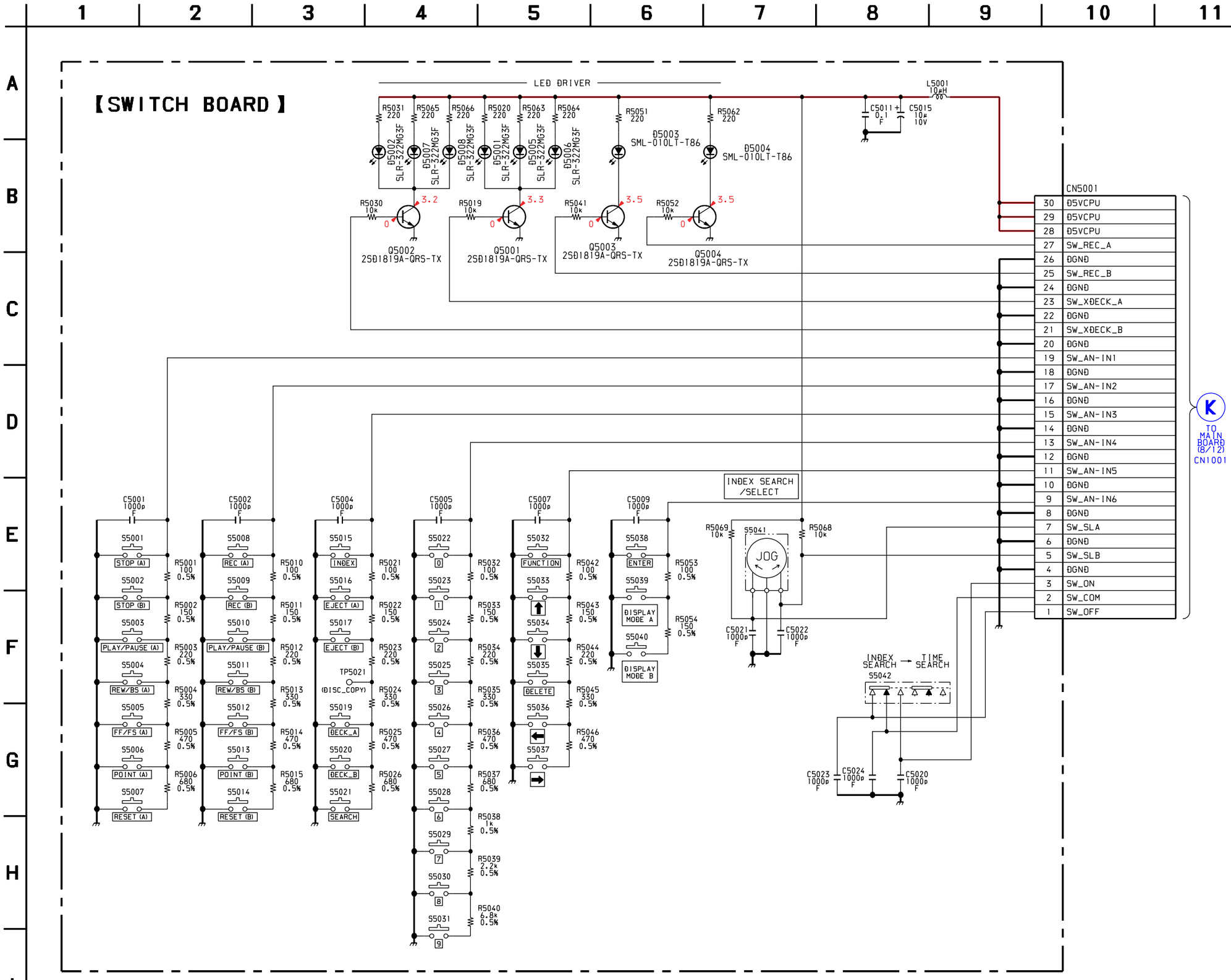
【LCD BOARD】



• **Semiconductor Location**

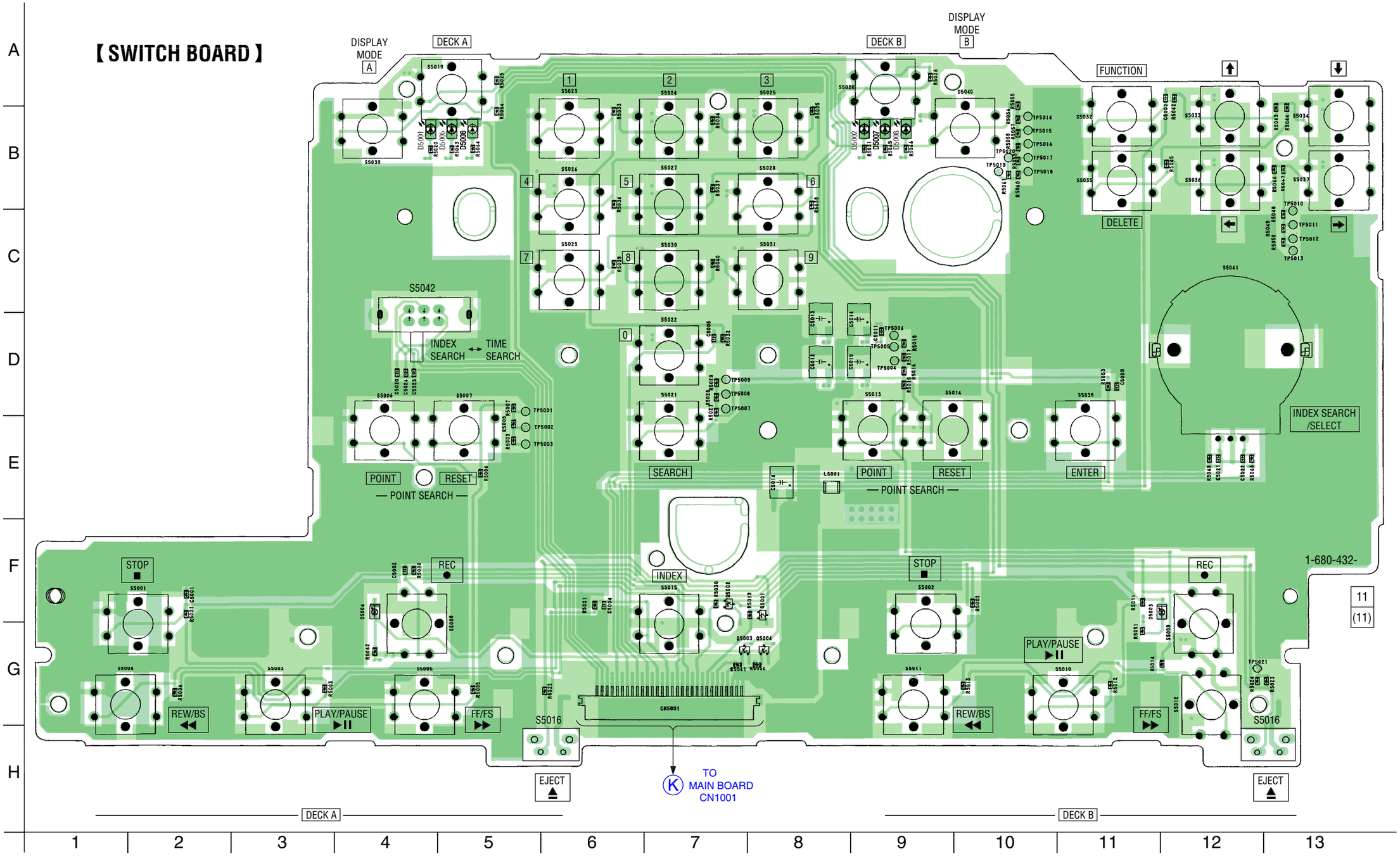
Ref. No.	Location
D4001	A-11
D4002	B-11
D4003	D-11
IC4001	B-2
IC4002	C-2
IC4004	C-3
IC4006	B-3
IC4007	B-6
IC4008	A-5
IC4010	C-5
IC4011	C-6
IC4012	C-7
IC4013	A-7
IC4014	D-5
IC4015	B-11
IC4016	E-8
IC4017	D-7
Q4001	A-10
Q4002	B-10
Q4003	C-10
Q4004	B-11

5-30. SCHEMATIC DIAGRAM SWITCH SECTION



5-31. PRINTED WIRING BOARD SWITCH SECTION • : Uses unleaded solder. • See page 29 for Circuit Boards Location.

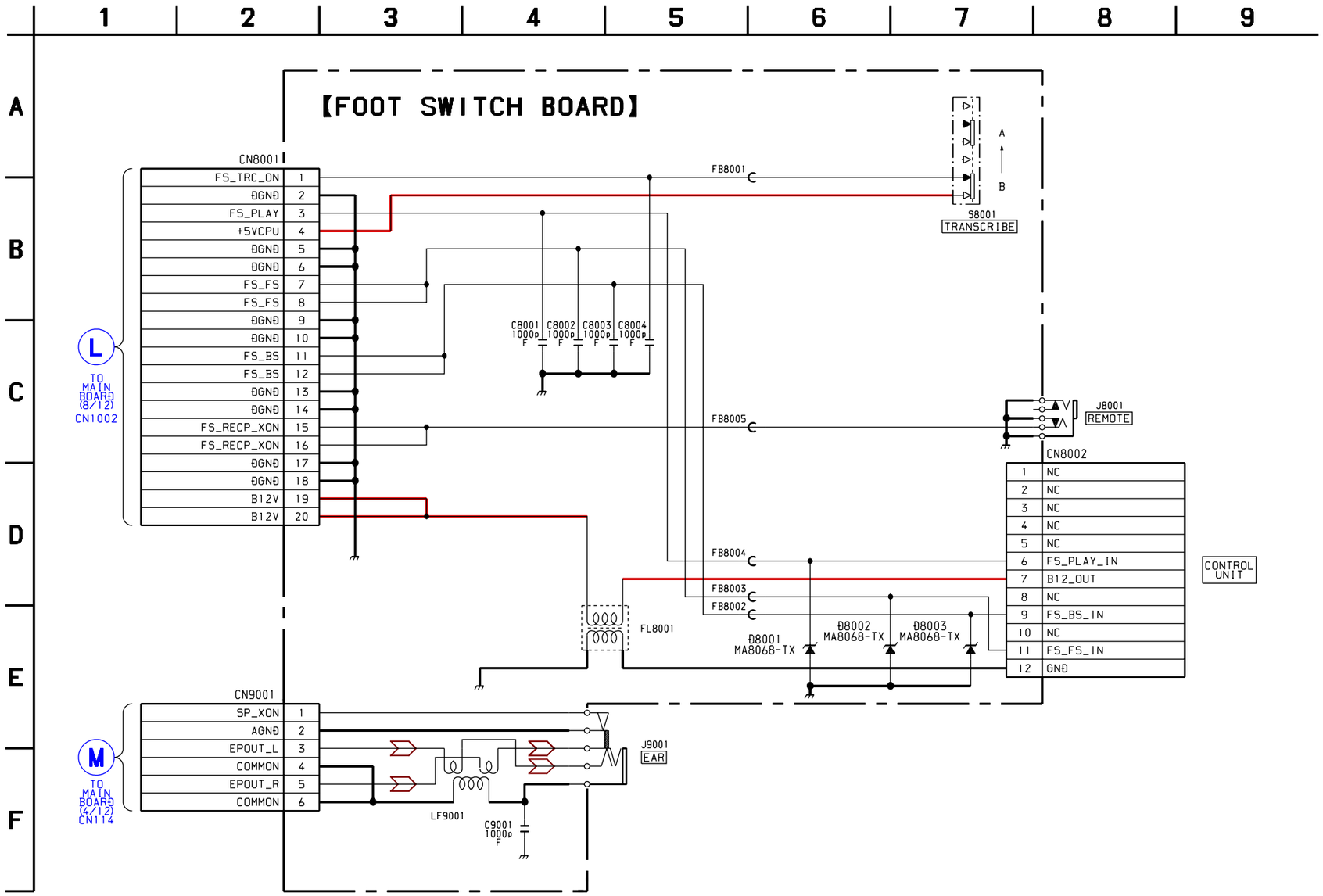
【 SWITCH BOARD 】



• **Semiconductor Location**

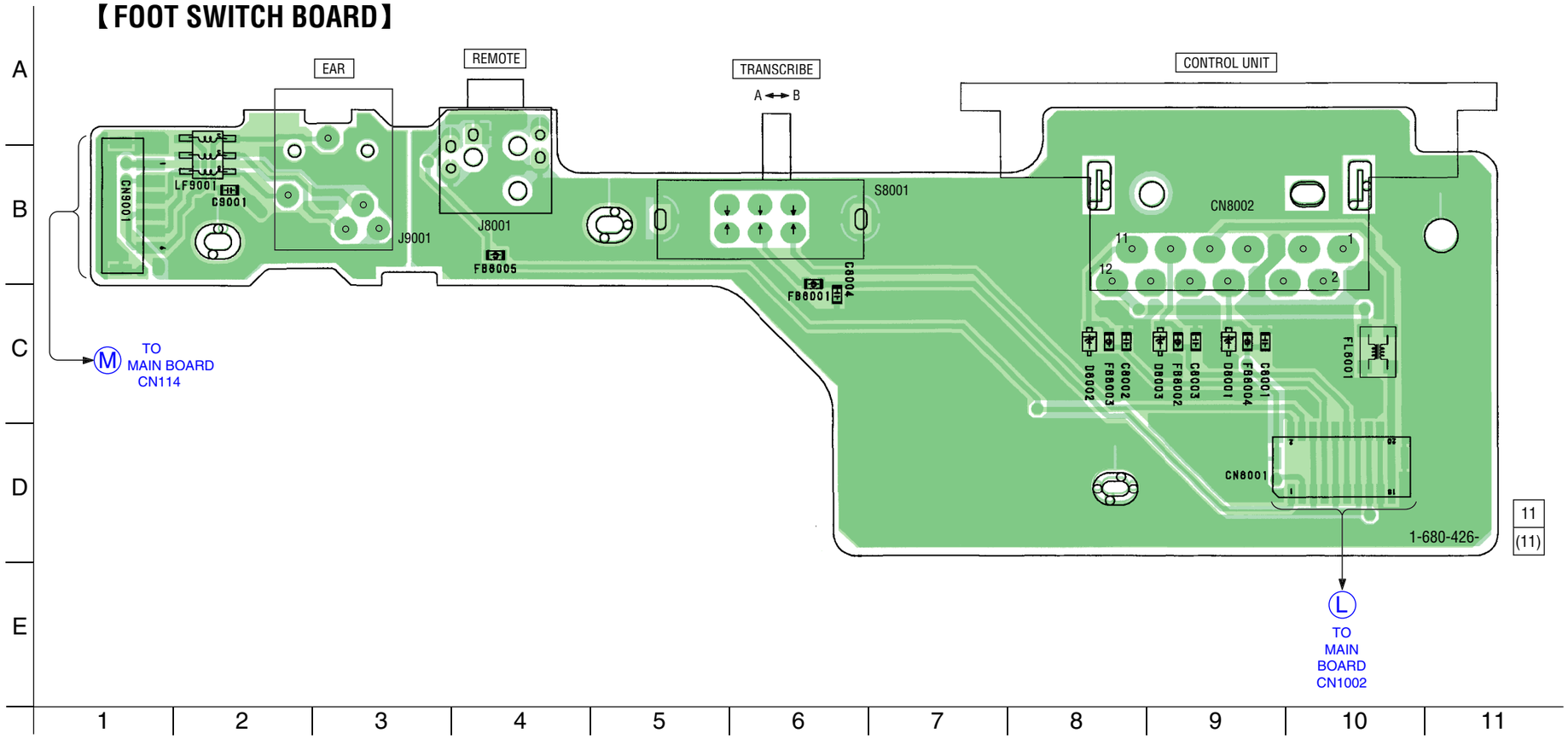
Ref. No.	Location	Ref. No.	Location
D5001	B-4	Q5001	F-8
D5002	B-9	Q5002	F-7
D5003	F-11	Q5003	F-7
D5004	F-4	Q5004	F-8
D5005	B-5		
D5006	B-5		
D5007	B-9		
D5008	B-9		

5-32. SCHEMATIC DIAGRAM FOOT SWITCH SECTION

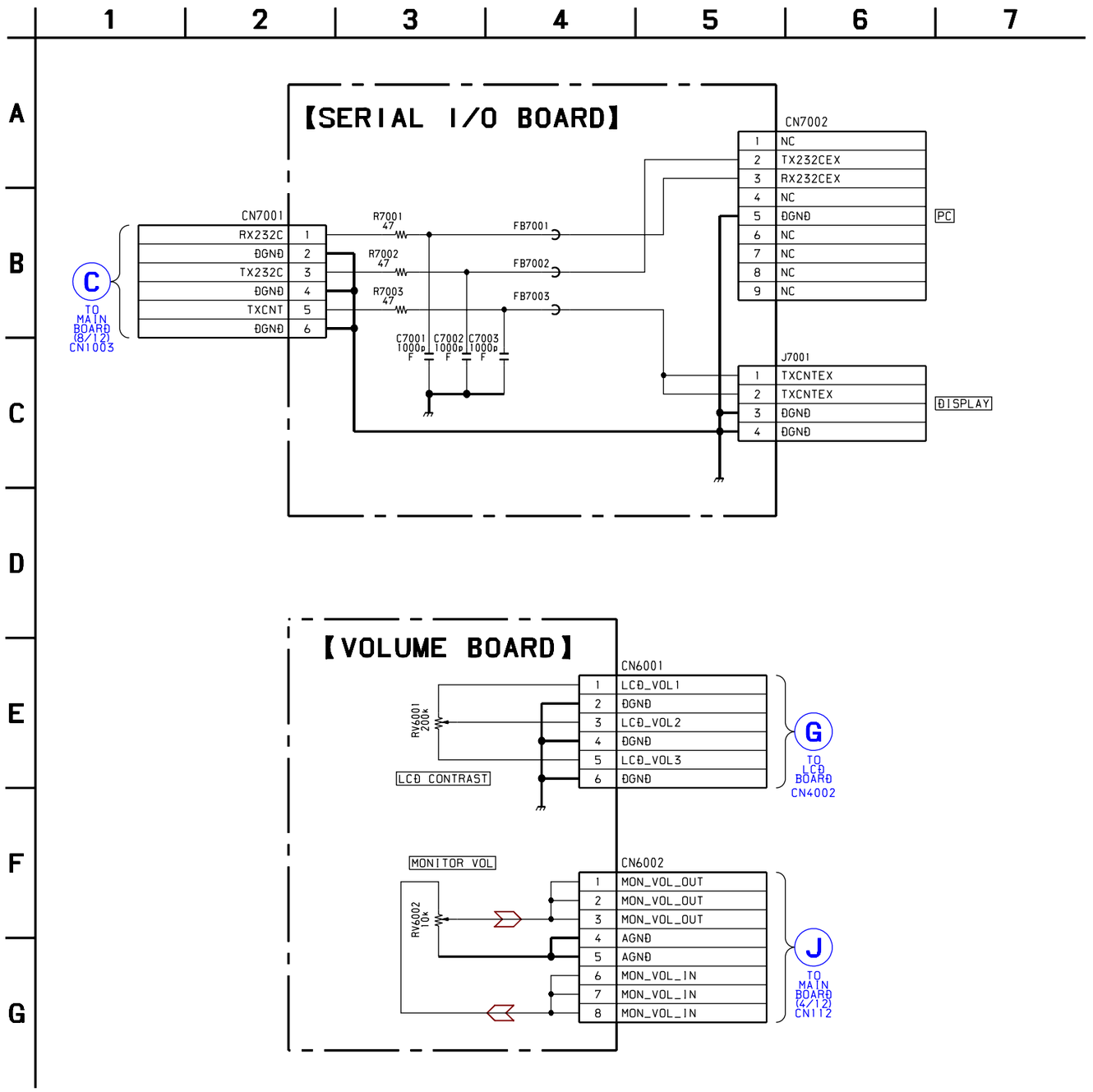


5-33. PRINTED WIRING BOARD FOOT SWITCH SECTION • : Uses unleaded solder. • See page 29 for Circuit Boards Location.

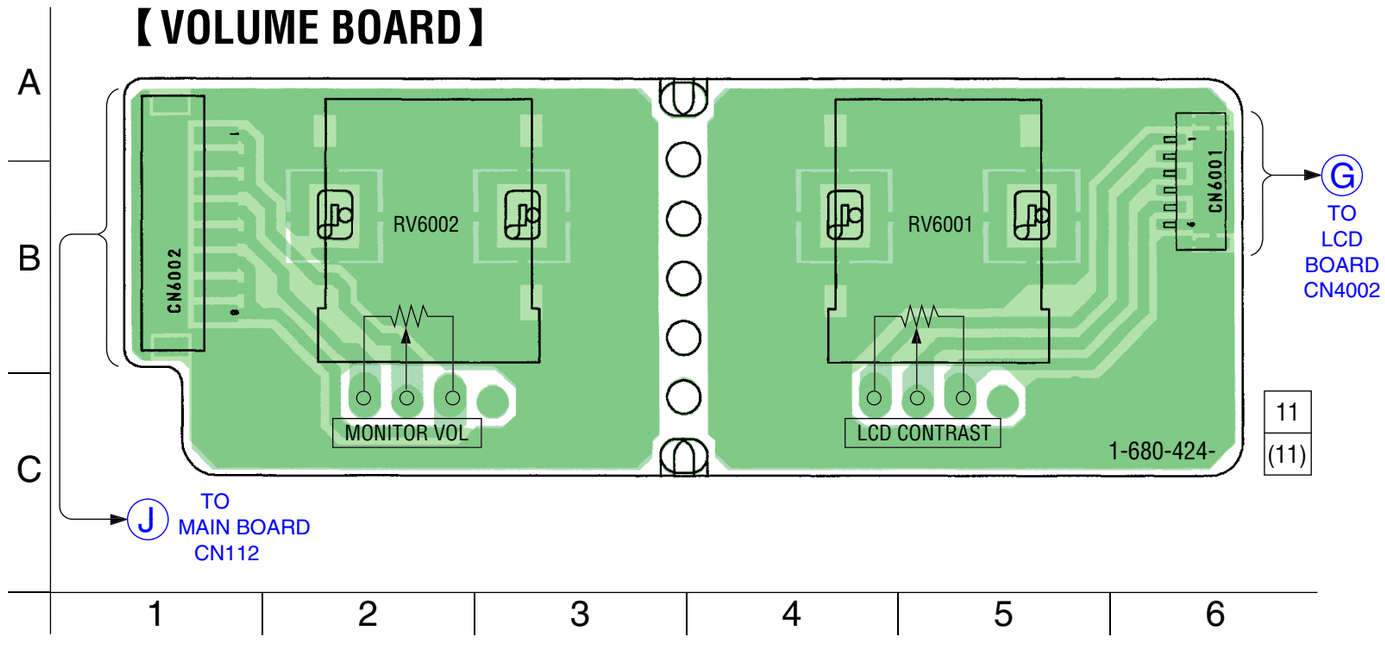
【FOOT SWITCH BOARD】

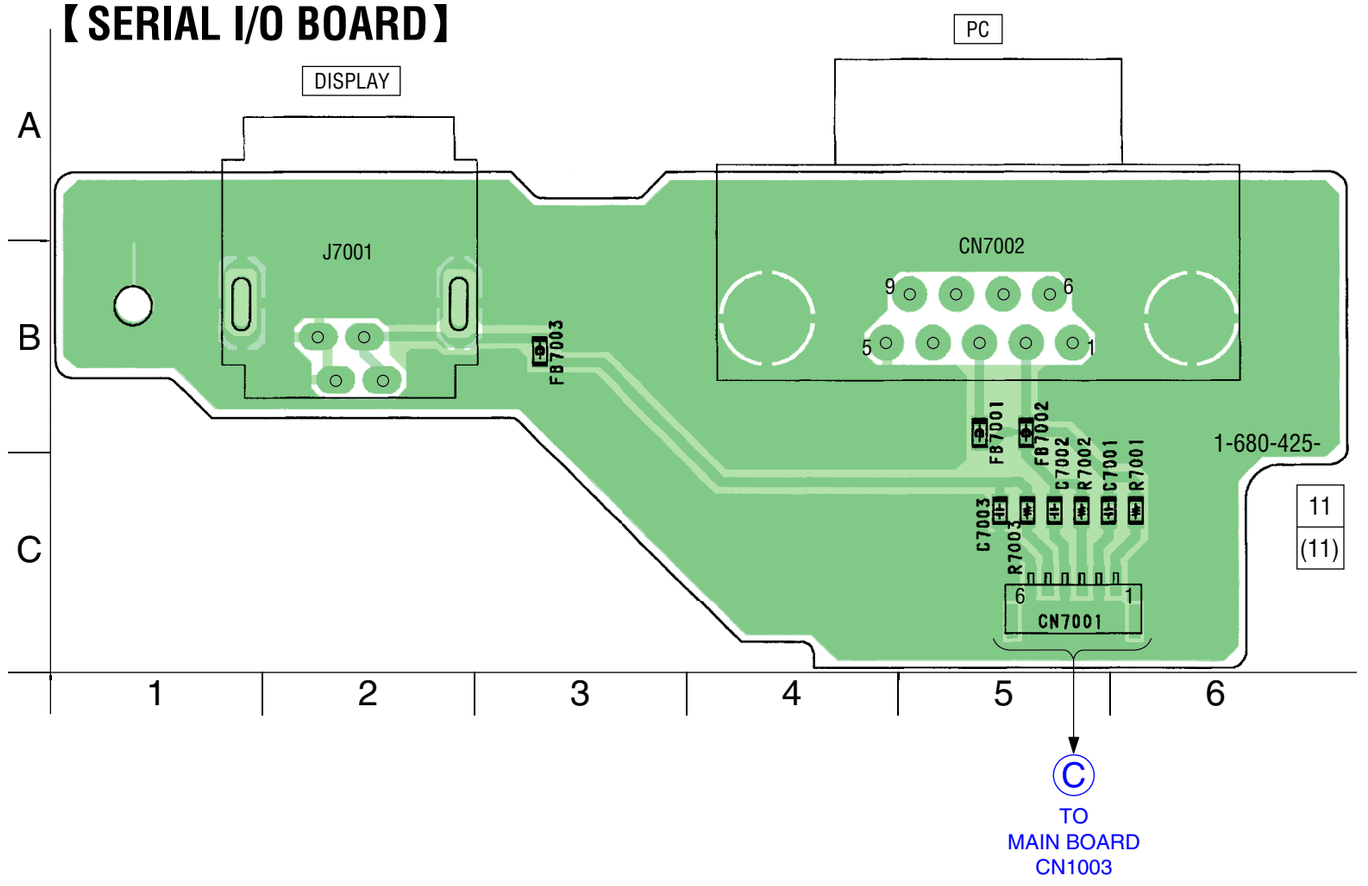


5-34. SCHEMATIC DIAGRAM VOLUME/SERIAL I/O SECTION

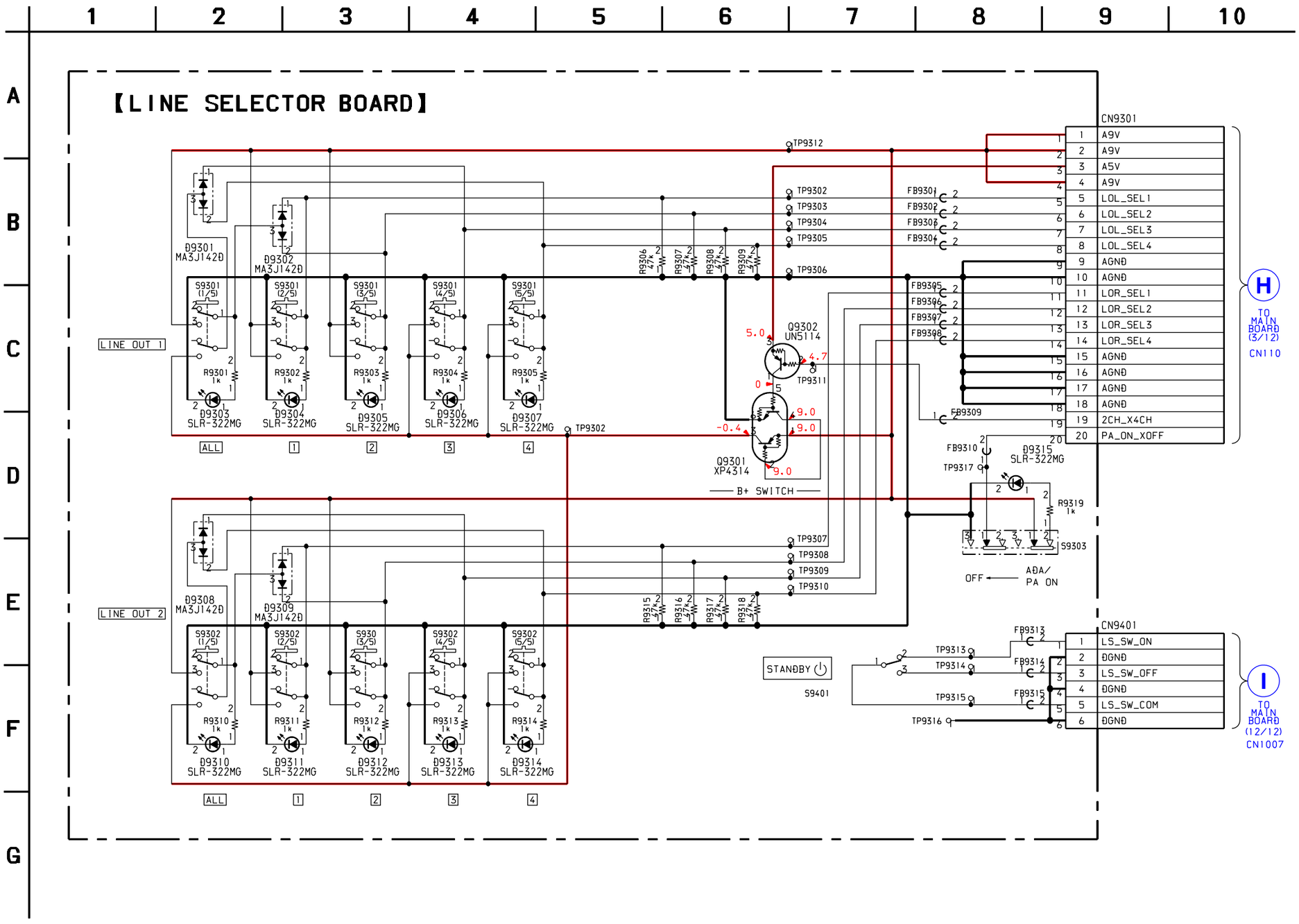


5-35. PRINTED WIRING BOARD VOLUME / SERIAL I/O SECTION • : Uses unleaded solder. • See page 29 for Circuit Boards Location.

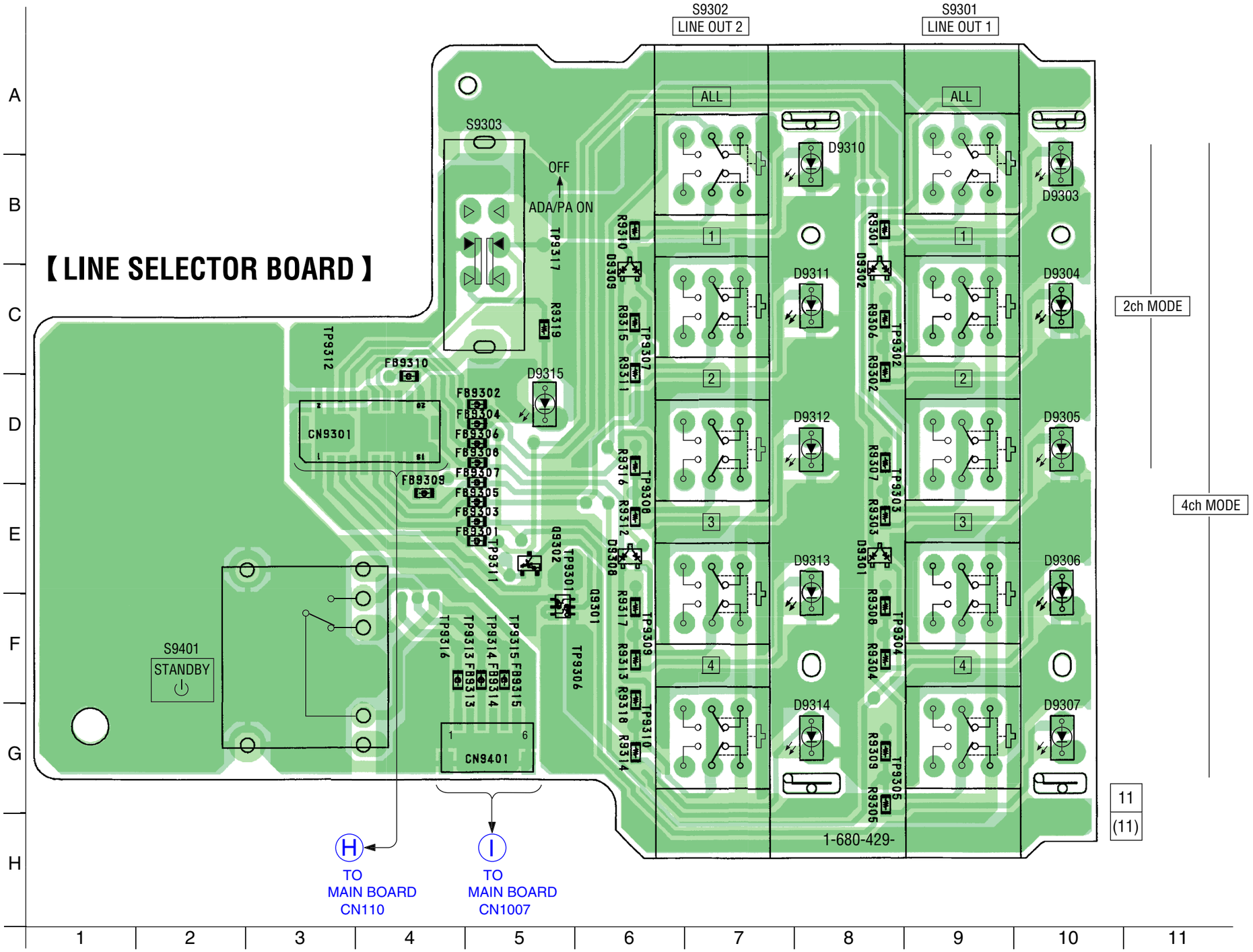




5-36. SCHEMATIC DIAGRAM LINE SELECTOR SECTION



5-37. PRINTED WIRING BOARD LINE SELECTOR SECTION • : Uses unleaded solder. • See page 29 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location
D9301	E-8
D9302	B-8
D9303	B-10
D9304	B-10
D9305	D-10
D9306	E-10
D9307	F-10
D9308	E-6
D9309	B-6
D9310	A-8
D9311	C-8
D9312	D-8
D9313	E-8
D9314	F-8
D9315	D-5
Q9301	F-6
Q9302	E-5

5-38. 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 teminal 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 opeation
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
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	XRDFA	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

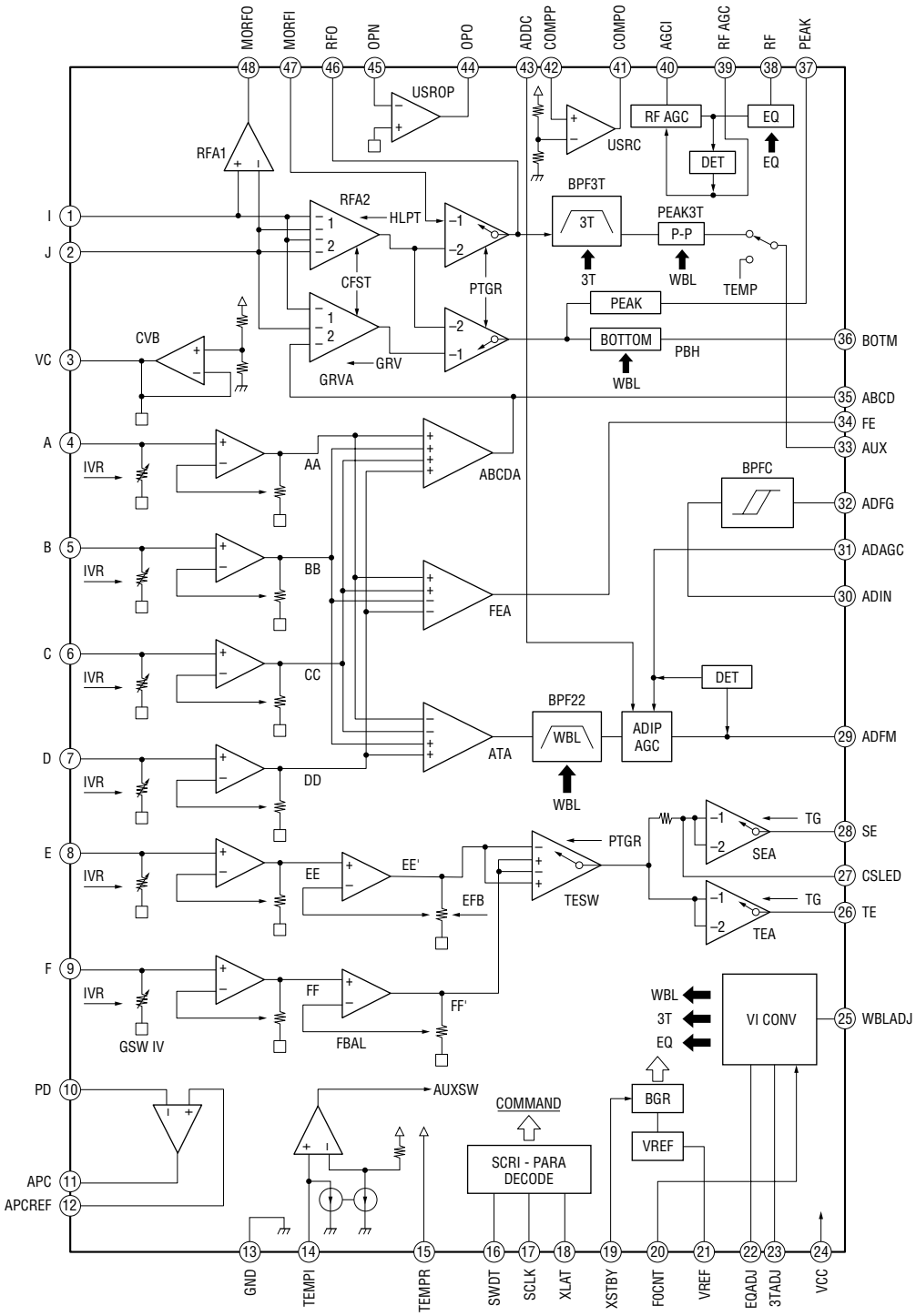
• IC1007 HD6413003TF16 (CPU) (MAIN BOARD)

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 fot 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)

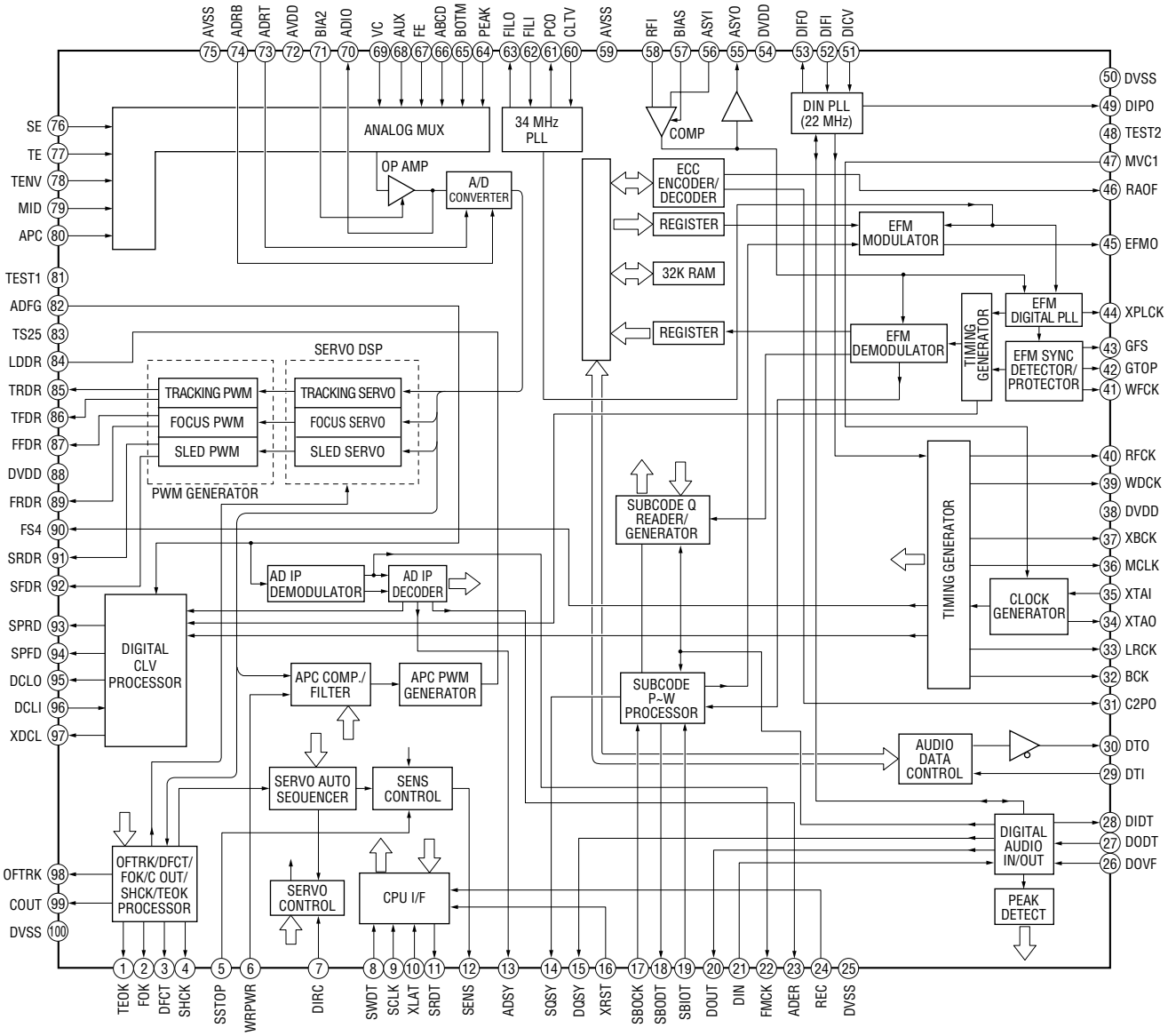
Pin No.	Pin Name	I/O	Description
84	AVCC	—	Power supply input for the A/D converter
85	VREF	—	Reference voltage input for the A/D converter
86	KEY-IN	I	Analog signal input
87 - 93	AN-IN1-7	I	Analog signal input
94	AVSS	—	Ground for the A/D converter
95	A20	O	Address bus
96 -98	A21-23	O	Address bus (not used)
99	VSS	—	Ground
100	IRQ0	I	Interrupt request 0 signal input from the MD controller
101	XCS3	O	Chip select signal outpur 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

5-39. IC BLOCK DIAGRAMS

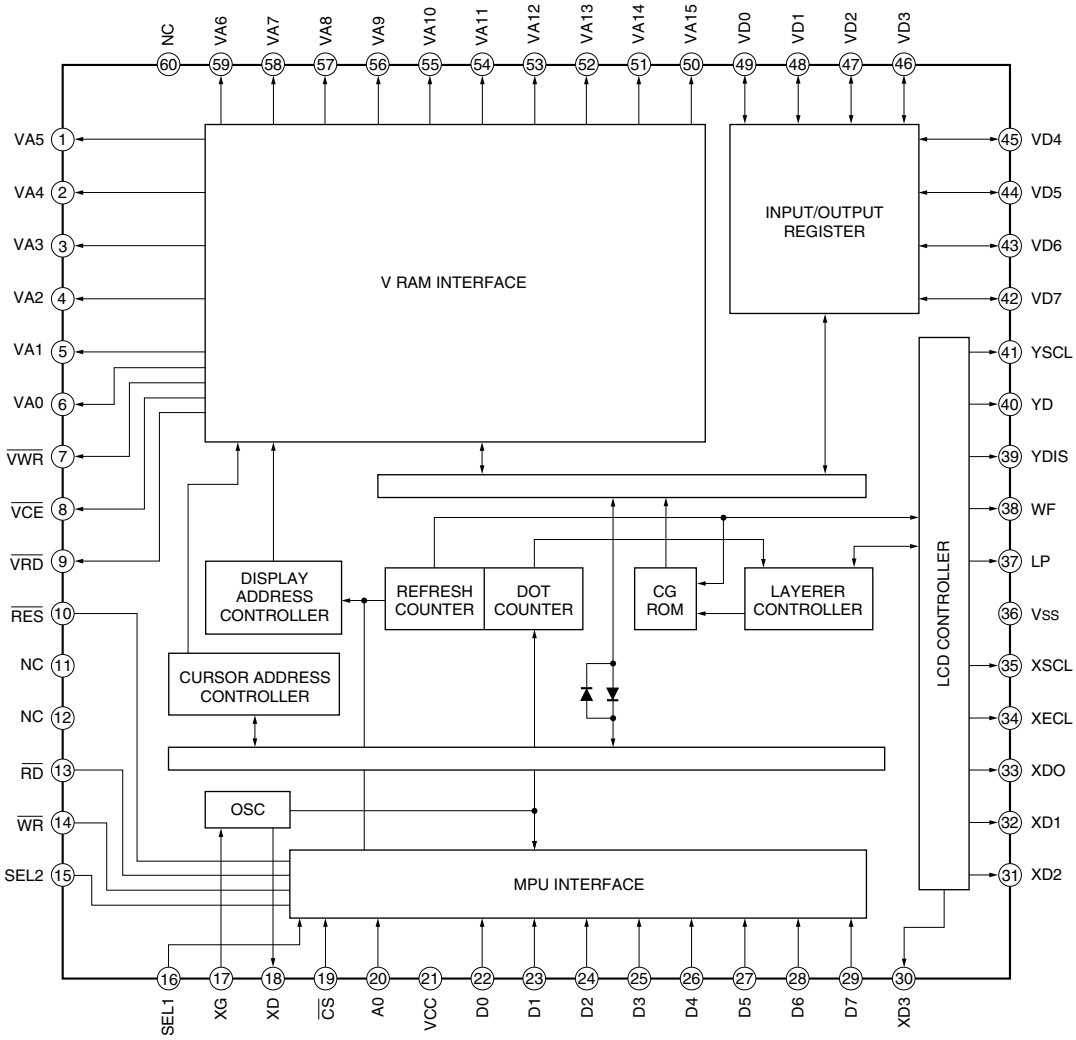
IC21 CXA2523R-T4 (MD BOARD)



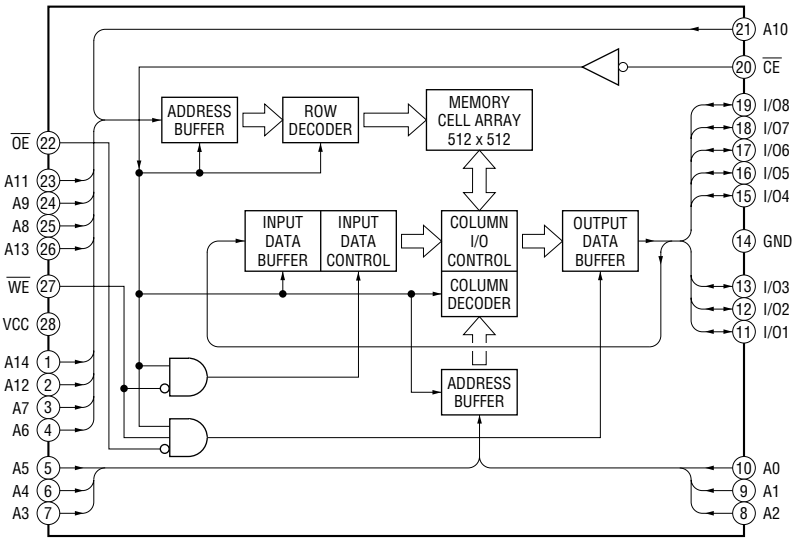
IC38 CXD2535CR-1 (MD BOARD)



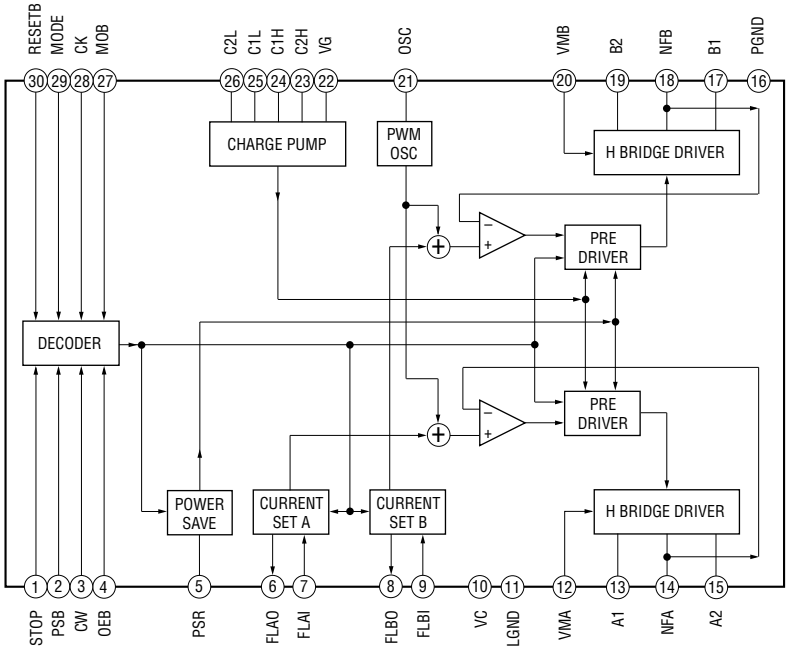
IC4004 SED1335FOB (LCD BOARD)



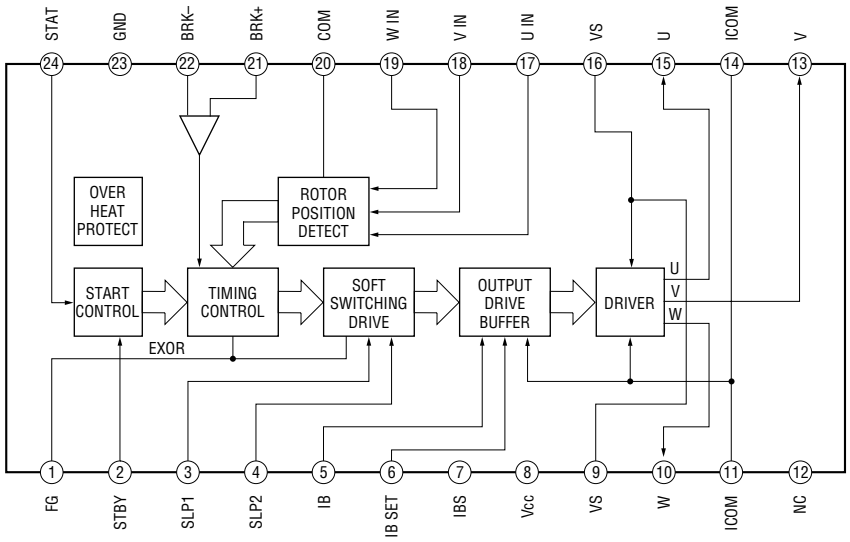
IC4006 LC35256FT-70U (LCD BOARD)



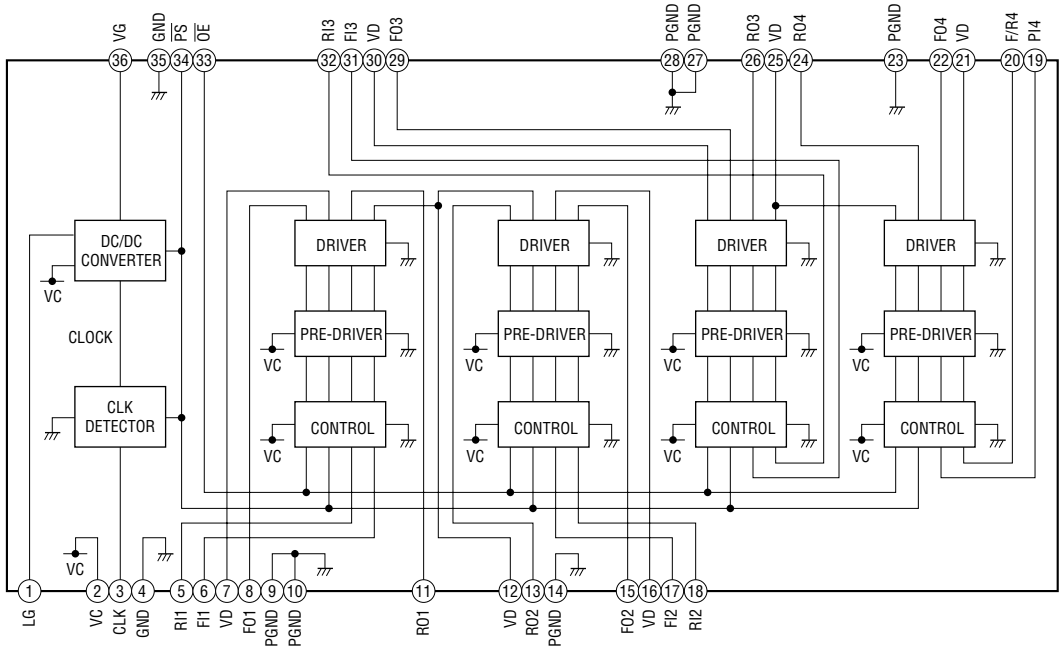
IC301 MPC17A85ZVMEL (BUM-F1 BOARD)



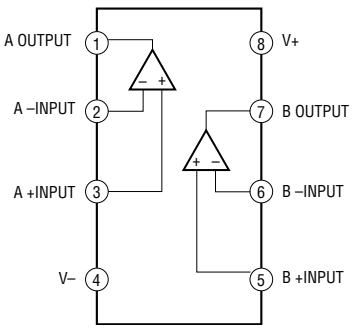
IC302 CXA8027N-ELL2000 (BUM-F1 BOARD)



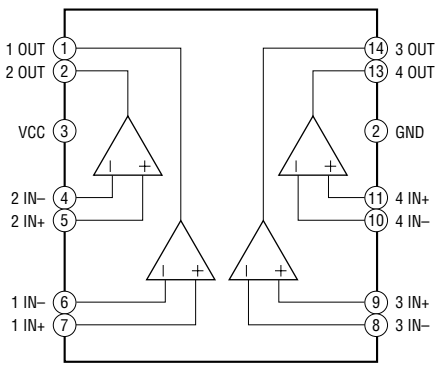
IC37 MPC17A38ZVMEL (MD BOARD)



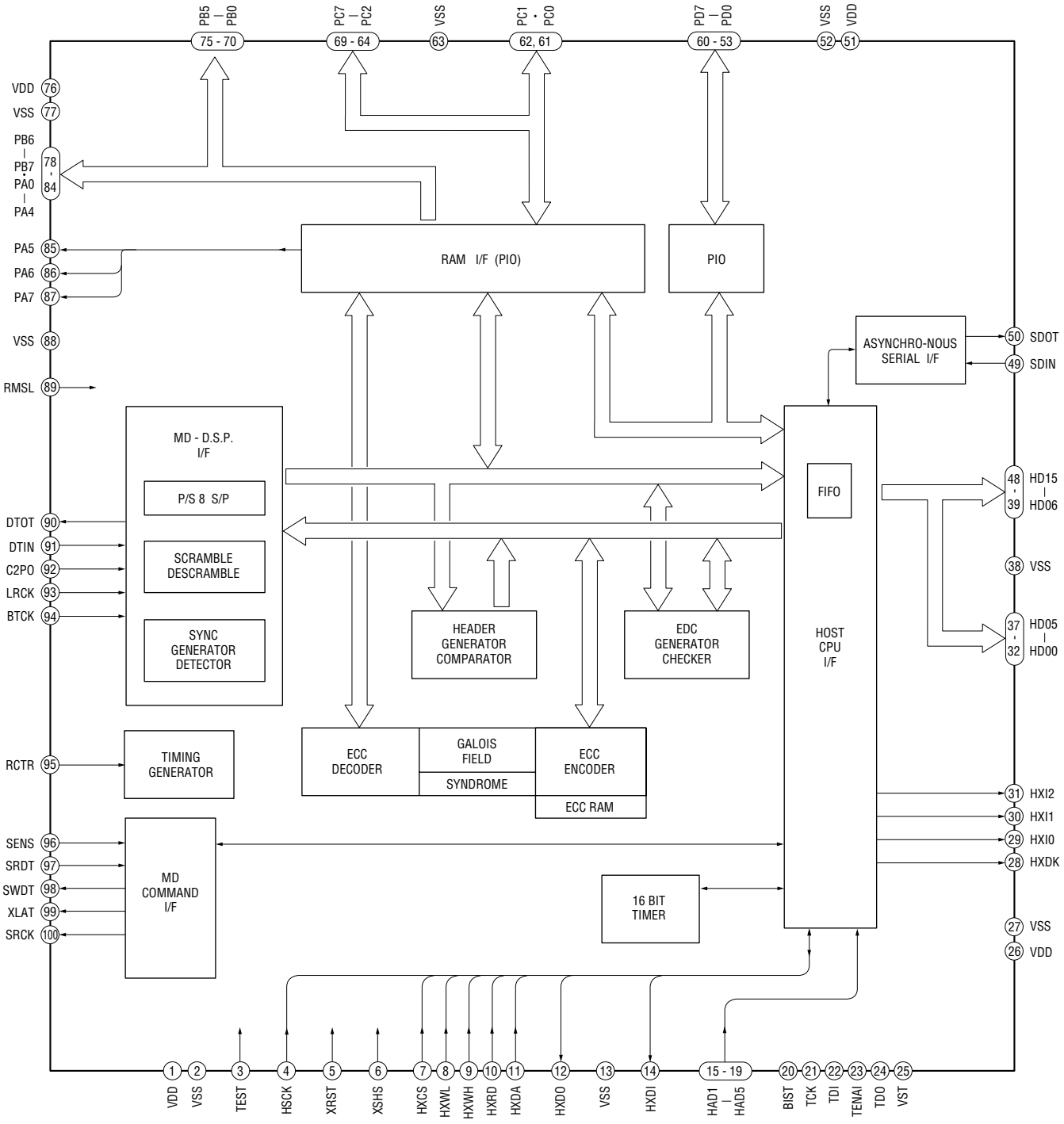
IC9,IC10,IC22,IC23,IC26 NJM2100V-TE2 (MD BOARD)
IC509,IC508 NJU7082BV(TE2) (MAIN BOARD)



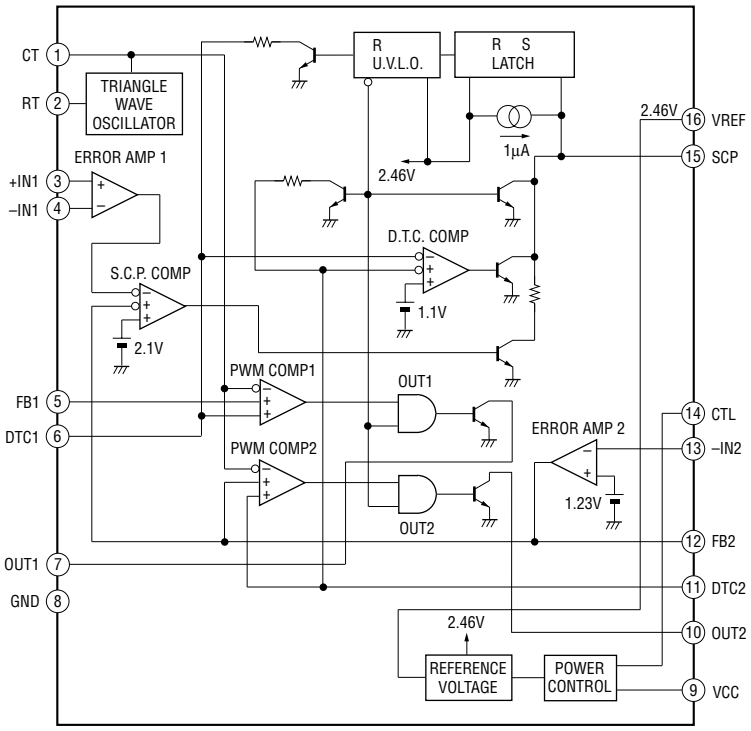
IC34 LM339PW-ELL2000 (MD BOARD)
IC1033 CXD1809R (MAIN BOARD)



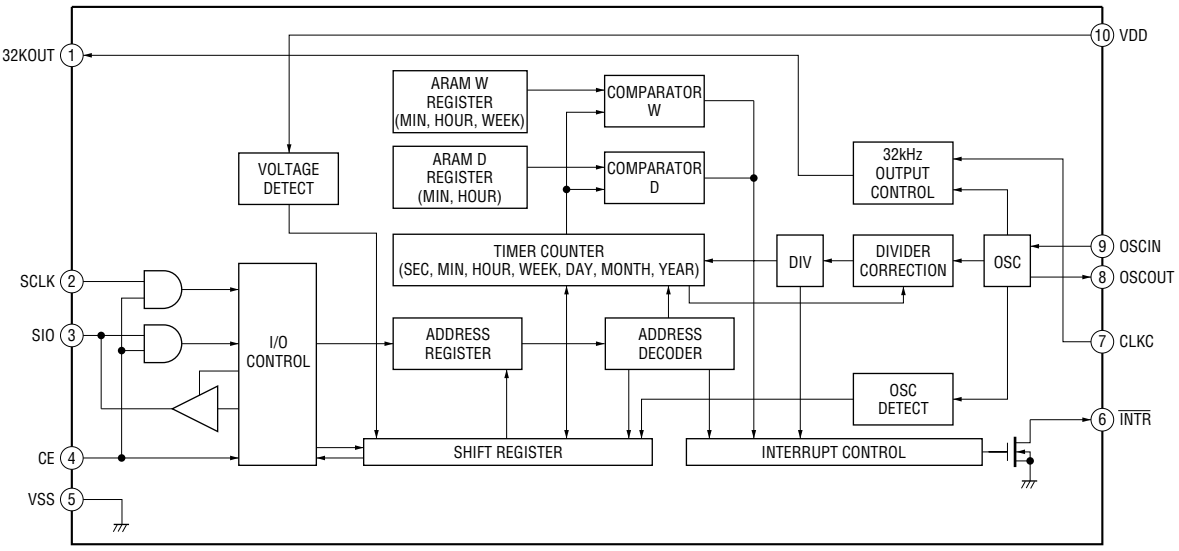
IC1033 CXD1809R (MAIN BOARD)



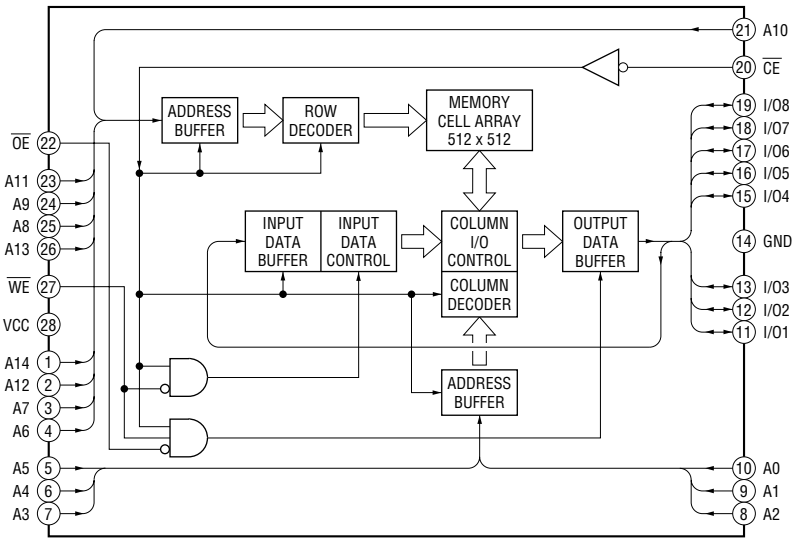
IC1064 MB3778PFV-EF (MAIN BOARD)



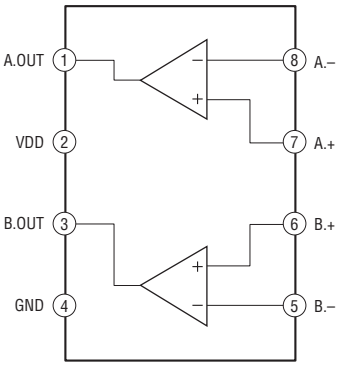
IC1004 RV5C348A-E2 (MAIN BOARD)



IC1016,IC1067 LC35256FT-70U (MAIN BOARD)



IC507 NJM2073D (MAIN BOARD)



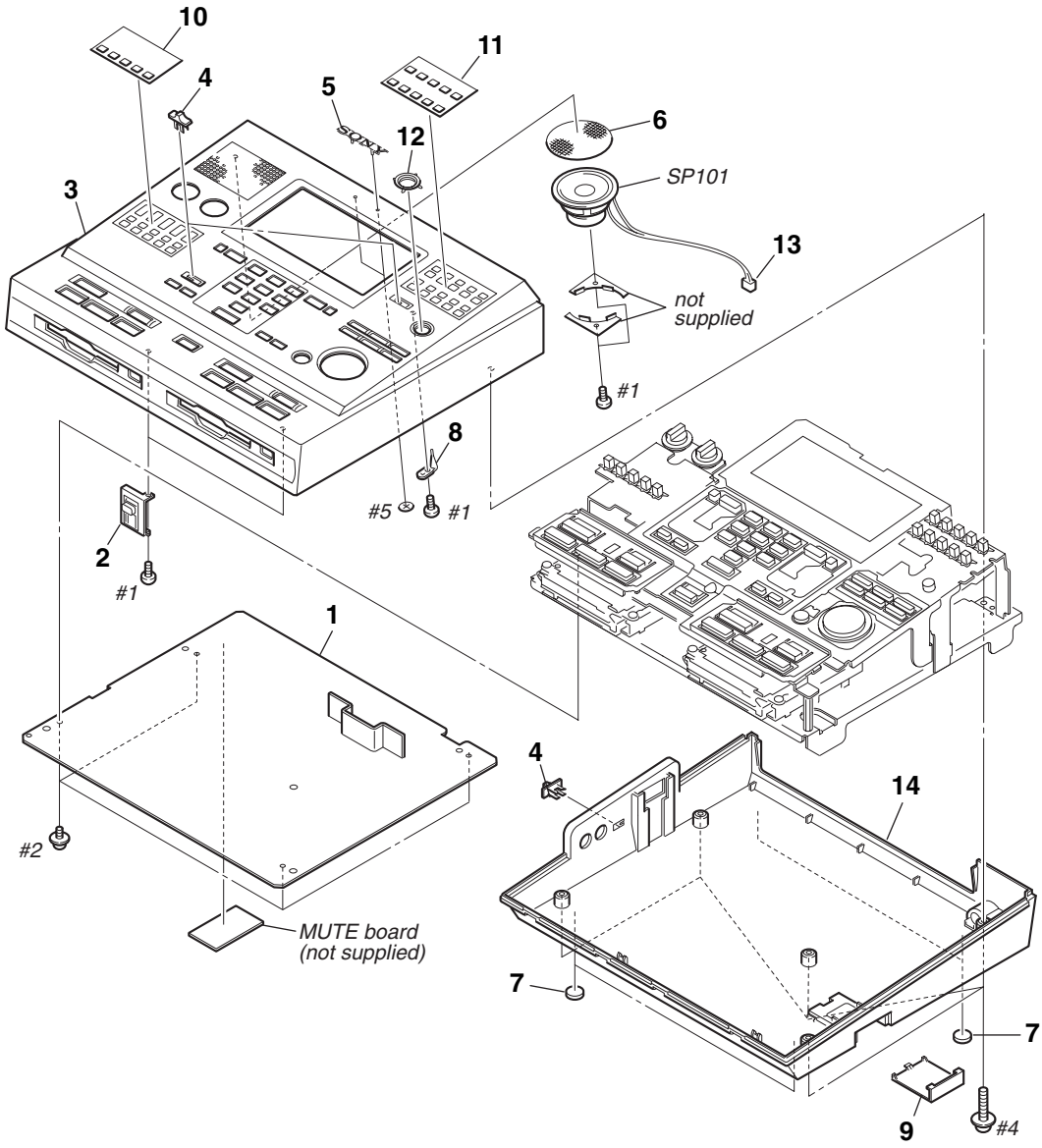
SECTION 6
EXPLODED VIEWS

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.

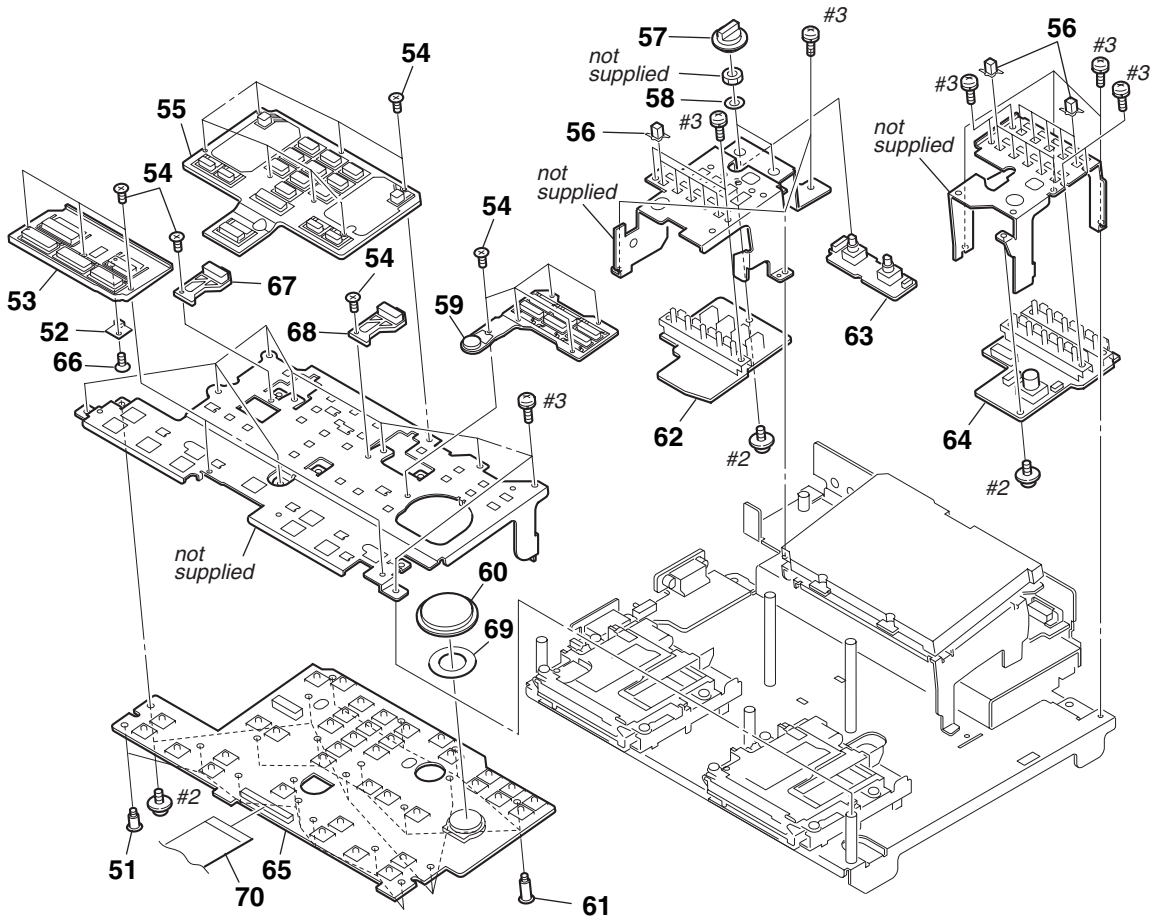
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

6-1. CABINET SECTION



Ref. No.	Part No.	Description	Remarks
* 1	A-3021-371-A	MAIN BOARD, COMPLETE	
2	3-225-516-01	BUTTON (EJECT)	
3	X-3379-897-1	CABINET (UPPER) ASSY	
4	3-225-517-01	KNOB (PA)	
5	3-718-322-02	EMBLEM, SONY	
6	3-225-543-01	NET, SPEAKER	
7	3-343-250-01	CUSHION	
8	3-225-538-01	PLATE (PA), LIGHT GUIDE	
9	3-225-522-01	LID, BATTERY CASE	
10	3-225-508-01	PLATE,TRANSPARENT	
11	3-225-509-01	PLATE,TRANSPARENT	
12	3-225-518-01	PLATE (KEY), ORNAMENTAL	
* 13	1-562-504-11	CONNECTOR, MICRO (HOUSING) 2P	
14	3-225-520-01	CABINET (LOWER)	
SP101	1-504-888-12	SPEAKER (5.0cm)	

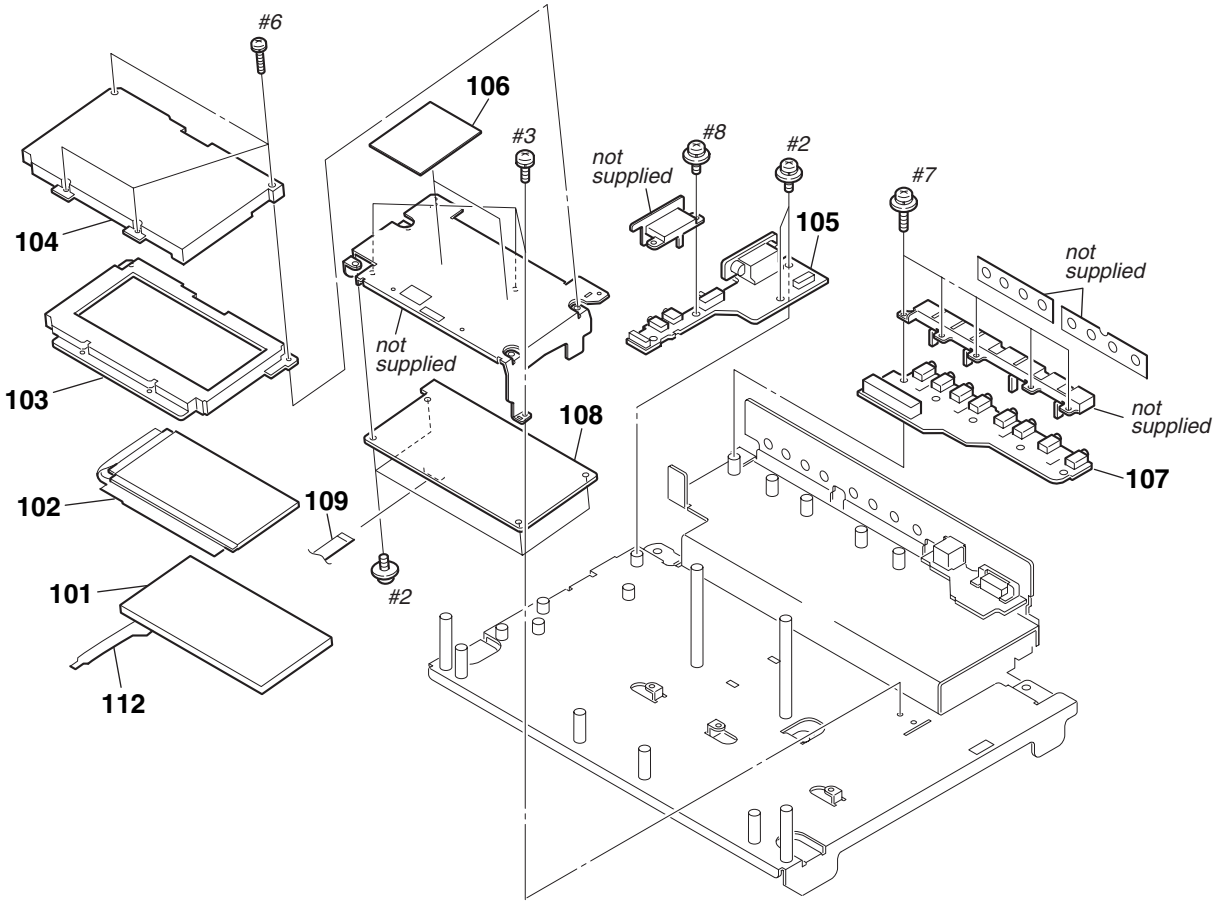
6-2. KEY SECTION



Ref. No.	Part No.	Description	Remarks
51	3-231-088-01	SCREW (M2), STEP	
52	3-225-513-01	PLATE (REC), LIGHT GUIDE	
53	3-225-512-01	BUTTON (MD)	
54	3-724-455-41	SCREW	
55	3-225-511-01	BUTTON (TEN KEY)	
56	3-225-531-01	BUTTON (5 GANG)	
57	3-225-532-01	KNOB (VOL)	
58	3-231-950-01	SPACER (CABINET UPPER)	
59	3-225-515-01	BUTTON (FUNCTION)	
60	3-225-528-01	KNOB (ENCODER)	

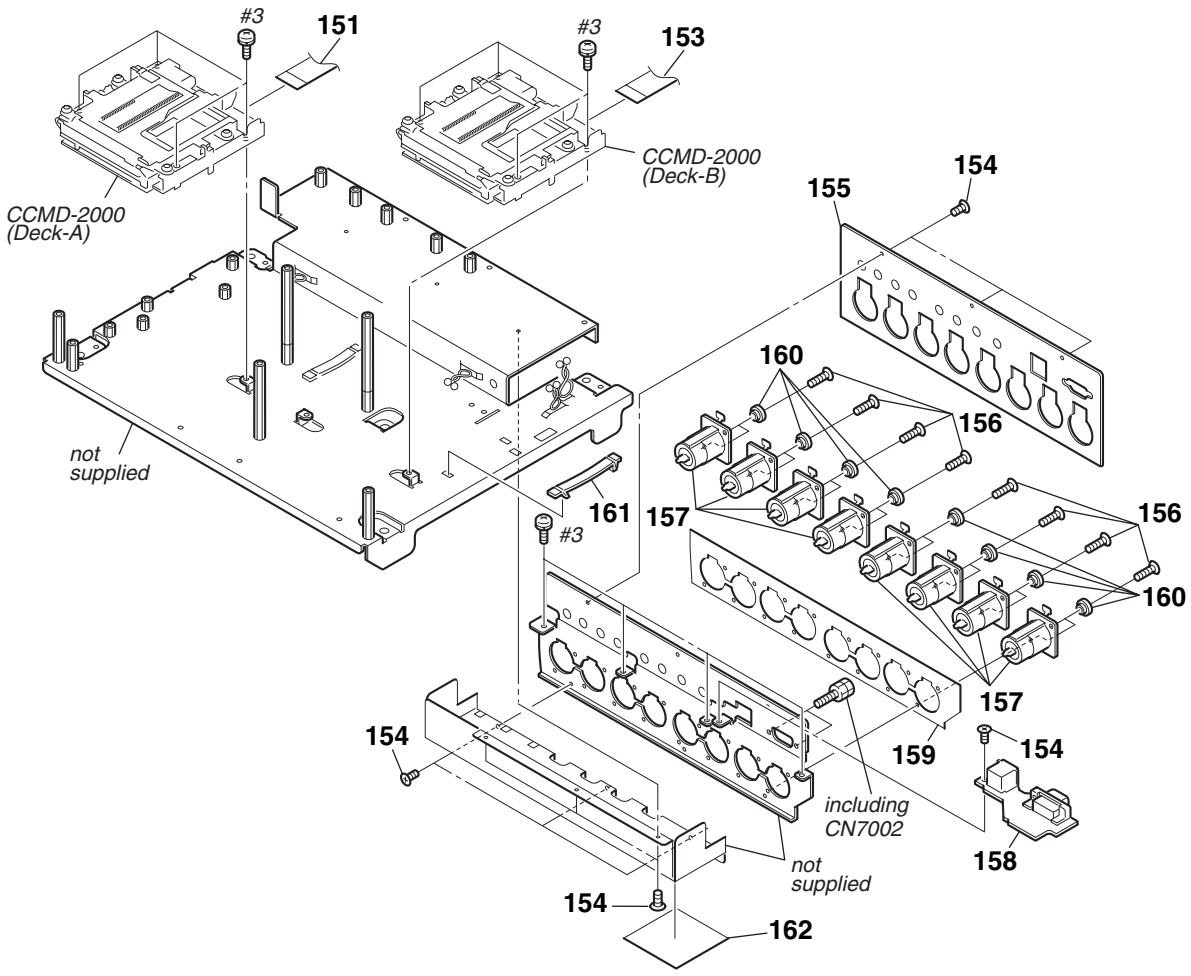
Ref. No.	Part No.	Description	Remarks
61	3-231-088-11	SCREW (M2), STEP	
* 62	1-680-427-11	LEVEL METER BOARD	
* 63	1-680-424-11	VOLUME BOARD	
* 64	1-680-429-11	LINE SELECTOR BOARD	
* 65	1-680-432-11	SWITCH BOARD	
66	3-355-424-01	SCREW, TAPPING	
67	3-225-514-01	BUTTON (SEARCH)	
68	3-225-514-11	BUTTON (SEARCH)	
69	3-233-394-01	SPACER (ENCODER)	
* 70	1-757-620-11	CABLE, FLEXIBLE FLAT (30 CORE)	

6-3. LCD SECTION



Ref. No.	Part No.	Description	Remarks
101	1-476-469-11	LIGHT UNIT, BACK	
102	1-803-019-11	DISPLAY PANEL, LIQUID CRYSTAL	
103	3-225-537-01	HOLDER (LCD)	
104	3-225-507-01	PLATE (LCD), TRANSPARENT	
* 105	1-680-426-11	FOOT SWITCH BOARD	
106	3-229-120-01	CUSHION (LCD)	
* 107	1-680-428-11	AUDIO I/O BOARD	
* 108	A-3062-207-A	LCD BOARD, COMPLETE	
109	1-757-623-11	CABLE, FLEXIBLE FLAT (20 CORE)	
112	1-680-433-11	B-LIGHT FLEXIBLE BOARD	

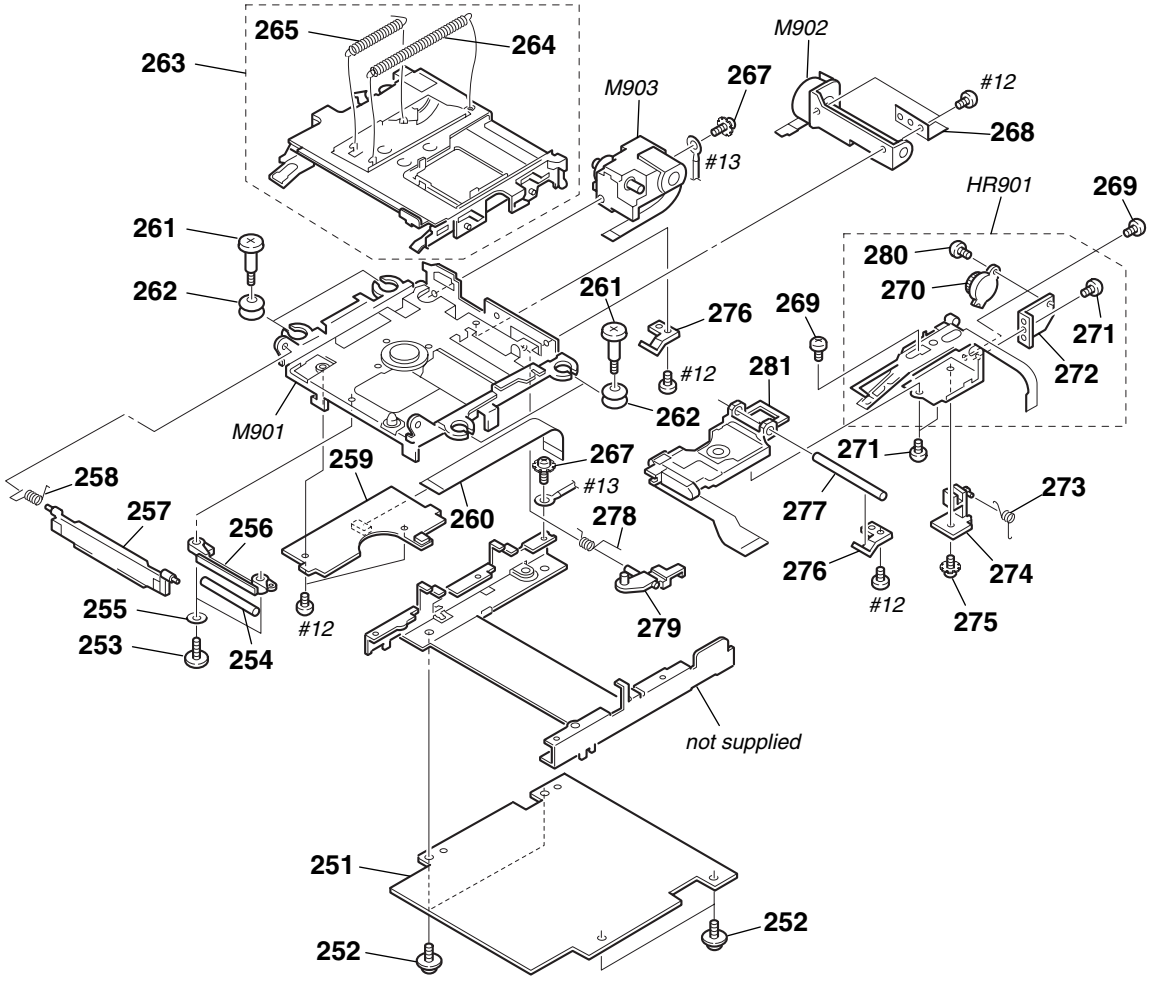
6-4. CONNECTOR SECTION



Ref. No.	Part No.	Description	Remarks
* 151	1-757-622-11	CABLE, FLEXIBLE FLAT (17 CORE)	
* 153	1-757-621-11	CABLE, FLEXIBLE FLAT (17 CORE)	
154	3-724-455-41	SCREW	
155	3-225-521-01	PLATE (CANON), INDICATION	
156	3-724-455-11	SCREW (M2X6)	
157	1-509-184-51	CONNECTOR (RECEPTACLE) 3P	

Ref. No.	Part No.	Description	Remarks
* 158	1-680-425-11	SERIAL I/O BOARD	
159	3-225-541-01	SHEET, INSULATING	
160	3-225-542-01	BUSHING, INSULATING	
161	3-225-496-01	CLAMP (FLAT CLAMP 45)	
162	3-232-312-01	SHEET (CANON SHIELD), INSULATING	

6-5. MD MECHANISM SECTION (CCMD-2000) (DECK-A/DECK-B)



Ref. No.	Part No.	Description	Remarks
* 251	A-3062-214-A	MD BOARD, COMPLETE	
252	4-628-169-01	SCREW (M2X3)	
253	4-628-170-01	SCREW (M1.7X4.5)	
* 254	4-628-165-01	SHAFT, SUB GUIDE	
255	3-701-437-11	WASHER	
* 256	4-628-190-01	BRACKET, SUB SHAFT	
257	4-628-193-21	DOOR	
258	4-628-178-01	SPRING, DOOR RETURN	
259	A-3178-000-A	BUM-F1 BOARD, COMPLETE	
260	1-777-945-11	WIRE, FLAT TYPE (18 CORE)	
261	4-628-167-01	SCREW, STEP	
262	4-979-919-01	INSULATOR (102)	
263	X-3377-612-1	HOLDER ASSY, CARTRIDGE	
* 264	4-628-164-01	SPRING, TENSION	
* 265	4-628-181-01	SPRING, TENSION	
267	4-628-646-11	SCREW(M2X3.5),TOOTHED LOCK(+)P	
* 268	4-628-355-01	SPRING, SCREW RETAINER	

Ref. No.	Part No.	Description	Remarks
269	3-704-246-13	SCREW (P1.4X2.0)	
270	3-953-235-01	DAMPER, OIL	
271	4-628-168-01	SCREW (M1.7X2.8)	
* 272	4-628-647-01	BRACKET, DAMPER	
273	4-628-180-01	SPRING, SCREW GUIDE	
274	4-628-189-02	GUIDE, SCREW	
275	3-345-648-91	SCREW (M1.4), TOOTHED LOCK	
* 276	4-628-166-01	SPRING, GUIDE SHAFT RETAINER	
277	4-987-697-01	SHAFT (GUIDE A)	
* 278	4-628-182-01	HOOK, OWH TRIGGER	
279	3-040-840-01	SPRING, TRIGGER HOOK	
280	3-713-786-51	SCREW +P 2X3	
⚠ 281	8-583-027-03	OPTICAL PICK-UP KMS-250A	
M901	A-3174-053-A	MOTOR, SPINDLE CHASSIS ASSY (SPINDLE)	
M902	1-698-454-12	MOTOR,STEPPING (F LA15-2002-A) (SLED)	
M903	1-698-455-11	MOTOR, DC GEARED (12C-082G) (LOADING)	
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.

AUDIO I/O | BUM-F1

SECTION 7
ELECTRICAL PARTS LIST

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 ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
*	1-680-428-11	AUDIO I/O BOARD			
		**********			
		< CAPACITOR >			
C9101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C9102	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C9103	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C9104	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C9105	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C9106	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C9107	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C9108	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C9109	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C9110	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C9111	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C9112	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN9101	1-568-002-11	CONNECTOR 26P			
CN9102	1-564-505-21	PLUG, CONNECTOR 2P			
		< JACK >			
J9101	1-507-999-31	JACK (SMALL TYPE) (DIA. 3.5) (CH1)			
J9102	1-507-999-31	JACK (SMALL TYPE) (DIA. 3.5) (CH2)			
J9103	1-507-999-31	JACK (SMALL TYPE) (DIA. 3.5) (CH3)			
J9104	1-507-999-31	JACK (SMALL TYPE) (DIA. 3.5) (CH4)			
J9105	1-507-999-31	JACK (SMALL TYPE) (DIA. 3.5) (ADA)			
J9106	1-507-999-31	JACK (SMALL TYPE) (DIA. 3.5) (PA)			
J9107	1-507-999-31	JACK (SMALL TYPE) (DIA. 3.5) (LINE OUT2)			
J9108	1-507-999-31	JACK (SMALL TYPE) (DIA. 3.5) (LINE OUT1)			
		< LINE FILTER >			
LF9101	1-416-405-21	FERRITE	0uH		
LF9102	1-416-405-21	FERRITE	0uH		
LF9103	1-416-405-21	FERRITE	0uH		
LF9104	1-416-405-21	FERRITE	0uH		
LF9105	1-403-601-21	FILTER, COMMON MODE			
LF9106	1-403-601-21	FILTER, COMMON MODE			
LF9107	1-403-601-21	FILTER, COMMON MODE			
LF9108	1-403-601-21	FILTER, COMMON MODE			

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Ref. No.	Part No.	Description			Remarks
	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			
		< 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

Ref. No.	Part No.	Description			Remarks
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
C8004	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			
		< FERRITE BEAD >			
FB8001	1-414-229-11	FERRITE 0uH			
FB8002	1-414-229-11	FERRITE 0uH			
FB8003	1-414-229-11	FERRITE 0uH			
FB8004	1-414-229-11	FERRITE 0uH			
FB8005	1-414-229-11	FERRITE 0uH			
		< FILTER >			
FL8001	1-411-312-11	FILTER, COMMON MODE			
		< JACK >			
J8001	1-566-895-11	JACK 1P (REMOTE)			
J9001	1-563-282-11	JACK, SMALL TYPE (EAR)			
		< LINE FILTER >			
LF9001	1-403-601-21	FILTER, COMMON MODE			
		< SWITCH >			
S8001	1-570-707-21	SWITCH, SLIDE (TRANSCRIBE)			
**********					

Ref. No.	Part No.	Description			Remarks
*	A-3062-207-A	LCD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C4003	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C4004	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C4005	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C4009	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C4010	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C4011	1-126-395-11	ELECT	22uF	20%	16V
C4012	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C4014	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C4016	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C4017	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C4019	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C4020	1-126-395-11	ELECT	22uF	20%	16V
C4021	1-126-395-11	ELECT	22uF	20%	16V
C4022	1-164-346-11	CERAMIC CHIP	1uF		16V
C4023	1-126-395-11	ELECT	22uF	20%	16V
C4024	1-126-395-11	ELECT	22uF	20%	16V
C4025	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C4026	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C4027	1-126-393-11	ELECT CHIP	33uF	20.00%	10V
C4028	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
C4029	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C4030	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C4031	1-128-597-11	ELECT CHIP	4.7uF	20.00%	50V
C4032	1-128-593-11	ELECT CHIP	0.47uF	20.00%	50V
C4033	1-128-597-11	ELECT CHIP	4.7uF	20.00%	50V
C4034	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C4035	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C4036	1-126-395-11	ELECT	22uF	20%	16V
C4037	1-126-601-11	ELECT CHIP	2.2uF	20%	50V
C4038	1-126-191-11	ELECT CHIP	0.47uF	20.00%	50V
		< CONNECTOR >			
* CN4001	1-815-206-21	PIN, CONNECTOR 50P			
CN4002	1-770-623-21	PIN, CONNECTOR 6P			
CN4003	1-573-929-11	CONNECTOR, FFC/FPC (ZIF) 20P			
CN4004	1-770-687-11	CONNECTOR, FFC/FPC 4P			
		< DIODE >			
D4001	8-719-069-29	DIODE RB520S-30TE61			
D4002	8-719-069-29	DIODE RB520S-30TE61			
D4003	8-719-420-77	DIODE MA724-TX			
		< IC >			
IC4001	8-759-523-92	IC TC74VHC21FT(EL)			
IC4002	8-759-523-79	IC TC74VHC02FT(EL)			
IC4004	8-759-188-96	IC SED1335F0B			
IC4006	6-700-495-01	IC LC35256FT-70U			
IC4007	8-759-523-95	IC TC74VHC74FT(EL)			
IC4008	8-759-523-79	IC TC74VHC02FT(EL)			
IC4010	8-759-524-18	IC TC74VHC163FT(EL)			
IC4011	8-759-524-18	IC TC74VHC163FT(EL)			
IC4012	8-759-523-95	IC TC74VHC74FT(EL)			
IC4013	8-759-582-86	IC XC62FP3002PR			

LCD LEVEL METER

Ref. No.	Part No.	Description			Remarks
IC4014	8-759-486-73	IC XC62FP3302PR			
IC4015	8-759-582-85	IC XC6382F501MR			
IC4016	8-759-524-50	IC TC74VHC541FT(EL)			
IC4017	8-759-196-96	IC TC7SH08FU-TE85R			
		< COIL >			
L4001	1-414-398-11	INDUCTOR	10uH		
L4002	1-469-989-11	INDUCTOR	1MH		
		< TRANSISTOR >			
Q4001	8-729-037-55	TRANSISTOR	2SK1826(TE85L)		
Q4002	8-729-023-89	TRANSISTOR	2SJ305(TE85L)		
Q4003	8-729-037-55	TRANSISTOR	2SK1826(TE85L)		
Q4004	8-729-023-89	TRANSISTOR	2SJ305(TE85L)		
		< RESISTOR >			
R4001	1-216-805-11	METAL CHIP	47	5%	1/16W
R4002	1-216-805-11	METAL CHIP	47	5%	1/16W
R4003	1-216-805-11	METAL CHIP	47	5%	1/16W
R4004	1-216-805-11	METAL CHIP	47	5%	1/16W
R4005	1-216-805-11	METAL CHIP	47	5%	1/16W
R4006	1-216-805-11	METAL CHIP	47	5%	1/16W
R4007	1-216-805-11	METAL CHIP	47	5%	1/16W
R4008	1-216-805-11	METAL CHIP	47	5%	1/16W
R4009	1-216-805-11	METAL CHIP	47	5%	1/16W
R4010	1-216-805-11	METAL CHIP	47	5%	1/16W
R4011	1-216-805-11	METAL CHIP	47	5%	1/16W
R4012	1-216-805-11	METAL CHIP	47	5%	1/16W
R4013	1-216-805-11	METAL CHIP	47	5%	1/16W
R4014	1-216-805-11	METAL CHIP	47	5%	1/16W
R4015	1-216-841-11	METAL CHIP	47K	5%	1/16W
R4016	1-216-841-11	METAL CHIP	47K	5%	1/16W
R4017	1-216-841-11	METAL CHIP	47K	5%	1/16W
R4018	1-216-841-11	METAL CHIP	47K	5%	1/16W
R4019	1-216-841-11	METAL CHIP	47K	5%	1/16W
R4020	1-216-841-11	METAL CHIP	47K	5%	1/16W
R4021	1-216-841-11	METAL CHIP	47K	5%	1/16W
R4022	1-216-841-11	METAL CHIP	47K	5%	1/16W
R4023	1-216-841-11	METAL CHIP	47K	5%	1/16W
R4024	1-216-841-11	METAL CHIP	47K	5%	1/16W
R4025	1-216-841-11	METAL CHIP	47K	5%	1/16W
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	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C9202	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C9203	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C9204	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C9205	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C9206	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C9207	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C9208	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C9209	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C9210	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
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			
		< 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)			

LEVEL METER | LINE SELECTOR

Ref. No.	Part No.	Description			Remarks
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
R9216	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9217	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9218	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9219	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9220	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9221	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9222	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9223	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9224	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9225	1-216-821-11	METAL CHIP	1K	5%	1/16W
		< VARIABLE RESISTOR >			
RV9201	1-225-901-11	RES, ADJ, CERMET (3 TYPE) 10K			
RV9202	1-225-901-11	RES, ADJ, CERMET (3 TYPE) 10K			
RV9203	1-225-901-11	RES, ADJ, CERMET (3 TYPE) 10K			
RV9204	1-225-901-11	RES, ADJ, CERMET (3 TYPE) 10K			

Ref. No.	Part No.	Description			Remarks
		< SWITCH >			
S9201	1-786-094-11	SWITCH BLOCK (MONITOR)			
**********					
*	1-680-429-11	LINE SELECTOR BOARD			
		**********			
	3-225-534-01	BRACKET (LED MOUNT A)			
		< CONNECTOR >			
* CN9301	1-793-807-11	PIN, CONNECTOR (WITH PWB) 20P			
CN9401	1-770-623-21	PIN, CONNECTOR 6P			
		< DIODE >			
D9301	8-719-059-50	DIODE MA3J142D0LSO			
D9302	8-719-059-50	DIODE MA3J142D0LSO			
D9303	8-719-077-40	LED SLR-322MG3F (ALL)			
D9304	8-719-077-40	LED SLR-322MG3F (1)			
D9305	8-719-077-40	LED SLR-322MG3F (2)			
D9306	8-719-077-40	LED SLR-322MG3F (3)			
D9307	8-719-077-40	LED SLR-322MG3F (4)			
D9308	8-719-059-50	DIODE MA3J142D0LSO			
D9309	8-719-059-50	DIODE MA3J142D0LSO			
D9310	8-719-077-40	LED SLR-322MG3F (ALL)			
D9311	8-719-077-40	LED SLR-322MG3F (1)			
D9312	8-719-077-40	LED SLR-322MG3F (2)			
D9313	8-719-077-40	LED SLR-322MG3F (3)			
D9314	8-719-077-40	LED SLR-322MG3F (4)			
D9315	8-719-077-40	LED SLR-322MG3F			
		< FERRITE BEAD >			
FB9301	1-414-229-11	FERRITE 0uH			
FB9302	1-414-229-11	FERRITE 0uH			
FB9303	1-414-229-11	FERRITE 0uH			
FB9304	1-414-229-11	FERRITE 0uH			
FB9305	1-414-229-11	FERRITE 0uH			
FB9306	1-414-229-11	FERRITE 0uH			
FB9307	1-414-229-11	FERRITE 0uH			
FB9308	1-414-229-11	FERRITE 0uH			
FB9309	1-414-229-11	FERRITE 0uH			
FB9310	1-414-229-11	FERRITE 0uH			
FB9313	1-414-229-11	FERRITE 0uH			
FB9314	1-414-229-11	FERRITE 0uH			
FB9315	1-414-229-11	FERRITE 0uH			
		< TRANSISTOR >			
Q9301	8-729-030-46	TRANSISTOR	XP4314-TX		
Q9302	8-729-402-96	TRANSISTOR	UN5114-TX		
		< RESISTOR >			
R9301	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9302	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9303	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9304	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9305	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9306	1-216-841-11	METAL CHIP	47K	5%	1/16W
R9307	1-216-841-11	METAL CHIP	47K	5%	1/16W
R9308	1-216-841-11	METAL CHIP	47K	5%	1/16W
R9309	1-216-841-11	METAL CHIP	47K	5%	1/16W
R9310	1-216-821-11	METAL CHIP	1K	5%	1/16W

LINE SELECTOR | MAIN

Ref. No.	Part No.	Description			Remarks
R9311	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9312	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9313	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9314	1-216-821-11	METAL CHIP	1K	5%	1/16W
R9315	1-216-841-11	METAL CHIP	47K	5%	1/16W
R9316	1-216-841-11	METAL CHIP	47K	5%	1/16W
R9317	1-216-841-11	METAL CHIP	47K	5%	1/16W
R9318	1-216-841-11	METAL CHIP	47K	5%	1/16W
R9319	1-216-821-11	METAL CHIP	1K	5%	1/16W
		< SWITCH >			
S9301	1-786-094-11	SWITCH BLOCK (LINE OUT 1)			
S9302	1-786-094-11	SWITCH BLOCK (LINE OUT 2)			
S9303	1-554-481-00	SWITCH, SLIDE (ADA/PA ON)			
S9401	1-786-093-11	SWITCH (KEY LOCK) (STAND BY)			
**********					
*	A-3021-371-A	MAIN BOARD, COMPLETE			
		**********			
	3-899-248-11	SCREW (M3X8)			
		< HOLDER >			
BT1	1-550-414-21	HOLDER, BATTERY			
		< CAPACITOR >			
C101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C102	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C103	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C104	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C105	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C106	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C107	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C108	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C109	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C110	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C111	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C112	1-107-686-11	TANTAL. CHIP	4.7uF	20.00%	16V
C113	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C114	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C115	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C116	1-104-913-11	TANTAL. CHIP	10uF	20.00%	16V
C117	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C118	1-104-915-11	TANTAL. CHIP	2.2uF	20.00%	16V
C119	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C120	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C121	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C122	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C123	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C124	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C125	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C126	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C127	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C128	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C129	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C130	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C131	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C132	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C133	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C134	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C135	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remarks
C136	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C137	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C138	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C139	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C140	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C141	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C142	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C143	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C144	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C145	1-107-686-11	TANTAL. CHIP	4.7uF	20.00%	16V
C146	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C147	1-107-686-11	TANTAL. CHIP	4.7uF	20.00%	16V
C148	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C149	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C150	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C151	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C152	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C153	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C154	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C155	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C156	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C157	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C158	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C159	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C160	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C161	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C162	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C165	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C166	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C167	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C168	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C169	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C170	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C171	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C172	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C201	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C202	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C203	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C204	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C206	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C208	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C210	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C211	1-107-686-11	TANTAL. CHIP	4.7uF	20.00%	16V
C215	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C216	1-104-915-11	TANTAL. CHIP	2.2uF	20.00%	16V
C217	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C218	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C219	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C223	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C224	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C225	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C226	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C228	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C301	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C302	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C303	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C304	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C305	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C306	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C307	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V

Ref. No.	Part No.	Description			Remarks
C308	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C309	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C310	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C311	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C312	1-107-686-11	TANTAL. CHIP	4.7uF	20.00%	16V
C313	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C314	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C315	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C316	1-104-913-11	TANTAL. CHIP	10uF	20.00%	16V
C317	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C318	1-104-915-11	TANTAL. CHIP	2.2uF	20.00%	16V
C319	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C320	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C321	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C322	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C323	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C324	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C325	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C326	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C327	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C328	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C329	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C330	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C331	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C332	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C333	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C334	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C335	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C336	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C337	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C338	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C339	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C340	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C341	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C342	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C343	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C344	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C345	1-107-686-11	TANTAL. CHIP	4.7uF	20.00%	16V
C346	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C347	1-107-686-11	TANTAL. CHIP	4.7uF	20.00%	16V
C348	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C349	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C350	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C351	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C352	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C353	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C354	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C355	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C356	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C357	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C358	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C359	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C360	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C361	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C362	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C365	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C366	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C367	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C368	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C369	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C370	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C371	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C372	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C401	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C402	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C403	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C404	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C406	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C408	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C410	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C411	1-107-686-11	TANTAL. CHIP	4.7uF	20.00%	16V
C415	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C416	1-104-915-11	TANTAL. CHIP	2.2uF	20.00%	16V
C417	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C418	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C419	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C423	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C424	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C425	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C426	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C428	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C501	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C502	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C503	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C504	1-104-913-11	TANTAL. CHIP	10uF	20.00%	16V
C505	1-104-913-11	TANTAL. CHIP	10uF	20.00%	16V
C506	1-104-913-11	TANTAL. CHIP	10uF	20.00%	16V
C507	1-164-361-11	CERAMIC CHIP	0.047uF		16V
C508	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C509	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C510	1-104-913-11	TANTAL. CHIP	10uF	20.00%	16V
C511	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C512	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C513	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C514	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C515	1-107-686-11	TANTAL. CHIP	4.7uF	20.00%	16V
C516	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C517	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C518	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C519	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C520	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C521	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C522	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C523	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C524	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C525	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C526	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C527	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C528	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C529	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C530	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C531	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C532	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C533	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C534	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C535	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C536	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C537	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C538	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C539	1-164-156-11	CERAMIC CHIP	0.1uF		25V

MAIN

Ref. No.	Part No.	Description			Remarks
C540	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C541	1-128-964-11	TANTAL. CHIP	100uF	20%	6.3V
C542	1-128-964-11	TANTAL. CHIP	100uF	20%	6.3V
C543	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C544	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C545	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C546	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C547	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C548	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C549	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C550	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C551	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C552	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
C556	1-128-964-11	TANTAL. CHIP	100uF	20%	6.3V
C557	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C558	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C559	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C560	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C561	1-104-913-11	TANTAL. CHIP	10uF	20.00%	16V
C562	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C563	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C564	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C565	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C566	1-104-913-11	TANTAL. CHIP	10uF	20.00%	16V
C567	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C568	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C569	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C570	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C571	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C572	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C573	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C574	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C575	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C576	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C577	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C578	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C579	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C580	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C581	1-104-913-11	TANTAL. CHIP	10uF	20.00%	16V
C582	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C583	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C584	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C585	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C586	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C587	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C588	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C589	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C590	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C591	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C701	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C702	1-126-940-11	ELECT	330uF	20.00%	25V
C703	1-126-940-11	ELECT	330uF	20.00%	25V
C704	1-126-940-11	ELECT	330uF	20.00%	25V
C705	1-126-940-11	ELECT	330uF	20.00%	25V
C706	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C707	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C708	1-126-934-11	ELECT	220uF	20.00%	16V
C709	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C710	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C711	1-126-934-11	ELECT	220uF	20.00%	16V
C712	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C713	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C714	1-117-681-11	ELECT CHIP	100uF	20.00%	16V
C715	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C716	1-117-681-11	ELECT CHIP	100uF	20.00%	16V
C717	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C718	1-119-750-11	TANTAL. CHIP	22uF	20.00%	6.3V
C719	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C720	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C721	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C722	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C723	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C724	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C725	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C726	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C727	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C728	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C729	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C1004	1-162-971-11	CERAMIC CHIP	0.001uF	10.00%	50V
C1005	1-164-361-11	CERAMIC CHIP	0.047uF		16V
C1006	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1007	1-165-112-11	CERAMIC CHIP	0.33uF		16V
C1008	1-162-971-11	CERAMIC CHIP	0.001uF	10.00%	50V
C1009	1-165-112-11	CERAMIC CHIP	0.33uF		16V
C1010	1-165-112-11	CERAMIC CHIP	0.33uF		16V
C1011	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1012	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1013	1-164-361-11	CERAMIC CHIP	0.047uF		16V
C1014	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1015	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1016	1-165-112-11	CERAMIC CHIP	0.33uF		16V
C1017	1-165-112-11	CERAMIC CHIP	0.33uF		16V
C1018	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1019	1-165-112-11	CERAMIC CHIP	0.33uF		16V
C1021	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1022	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1024	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1025	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1026	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1029	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1030	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C1031	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C1032	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1033	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1034	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1035	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1036	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1037	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1038	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1039	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1040	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1041	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1042	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1043	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1044	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1045	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1047	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remarks
C1048	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1049	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1050	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1051	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C1052	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1053	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1054	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1055	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1056	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C1057	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1058	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1059	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1060	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1061	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1062	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1063	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1064	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1065	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1066	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1067	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1068	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1069	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1070	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1071	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1080	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1081	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1082	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1083	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1084	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1085	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1086	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1087	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1088	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1089	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1090	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1091	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1092	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1093	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1094	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1095	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1096	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1097	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1099	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1102	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1103	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1104	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1105	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1106	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1107	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1108	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1110	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1111	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1112	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1113	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1114	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1115	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1117	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1120	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1121	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1122	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1123	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1124	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1125	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1126	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1128	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1129	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1130	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1131	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1132	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1133	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1134	1-162-971-11	CERAMIC CHIP	0.001uF	10.00%	50V
C1135	1-162-971-11	CERAMIC CHIP	0.001uF	10.00%	50V
C1136	1-162-971-11	CERAMIC CHIP	0.001uF	10.00%	50V
C1137	1-126-942-61	ELECT	1000uF	20.00%	25V
C1138	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1139	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1140	1-164-346-11	CERAMIC CHIP	1uF		16V
C1142	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C1143	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C1144	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C1145	1-128-399-11	ELECT CHIP	330uF	20.00%	16V
C1146	1-128-399-11	ELECT CHIP	330uF	20.00%	16V
C1147	1-128-399-11	ELECT CHIP	330uF	20.00%	16V
C1148	1-128-399-11	ELECT CHIP	330uF	20.00%	16V
C1149	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1150	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1151	1-128-399-11	ELECT CHIP	330uF	20.00%	16V
C1152	1-128-399-11	ELECT CHIP	330uF	20.00%	16V
C1153	1-128-399-11	ELECT CHIP	330uF	20.00%	16V
C1154	1-128-399-11	ELECT CHIP	330uF	20.00%	16V
C1155	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1156	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1157	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1162	1-164-346-11	CERAMIC CHIP	1uF		16V
C1165	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1167	1-164-346-11	CERAMIC CHIP	1uF		16V
C1171	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1174	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1175	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1177	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1178	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1179	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1180	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1181	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1182	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1183	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1184	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1185	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1186	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1187	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1188	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1189	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1190	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1191	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1192	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
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
C1196	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1197	1-162-927-11	CERAMIC CHIP	100PF	5%	50V

MAIN

Ref. No.	Part No.	Description			Remarks
C1198	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1199	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1200	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1201	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1202	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1203	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1204	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1205	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1206	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1207	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1208	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1209	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1210	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1211	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1213	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1214	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1215	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1216	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1217	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C1218	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1219	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1220	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1221	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1222	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C1223	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1224	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
		< CONNECTOR >			
* CN101	1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD)8P			
* CN102	1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD)8P			
* CN103	1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD)8P			
* CN104	1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD)8P			
* CN109	1-793-807-11	PIN, CONNECTOR (WITH PWB) 20P			
* CN110	1-793-807-11	PIN, CONNECTOR (WITH PWB) 20P			
CN111	1-568-002-11	CONNECTOR 26P			
* CN112	1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD)8P			
CN1001	1-774-666-11	CONNECTOR, FFC/FPC 30P			
* CN1002	1-793-807-11	PIN, CONNECTOR (WITH PWB) 20P			
CN1003	1-785-125-11	CONNECTOR 6P			
* CN1004	1-815-206-21	PIN, CONNECTOR 50P			
CN1005	1-770-700-11	CONNECTOR, FFC/FPC 17P			
CN1006	1-770-700-11	CONNECTOR, FFC/FPC 17P			
CN1007	1-785-125-11	CONNECTOR 6P			
		< DIODE >			
D101	8-719-975-43	DIODE	SB02-03C-TB		
D201	8-719-975-43	DIODE	SB02-03C-TB		
D301	8-719-975-43	DIODE	SB02-03C-TB		
D401	8-719-975-43	DIODE	SB02-03C-TB		
D501	8-719-404-50	DIODE	MA111-TX		
D701	8-719-404-50	DIODE	MA111-TX		
D702	8-719-053-18	DIODE	1SR154-400TE-25		
D703	8-719-053-18	DIODE	1SR154-400TE-25		
D704	8-719-053-18	DIODE	1SR154-400TE-25		
D1001	8-719-069-29	DIODE	RB520S-30TE61		
D1002	8-719-069-29	DIODE	RB520S-30TE61		
D1004	8-719-066-98	DIODE	RB051L-40TE25		
D1005	8-719-066-98	DIODE	RB051L-40TE25		
D1006	8-719-067-33	DIODE	MA2HD0800LS0		
D1007	8-719-066-98	DIODE	RB051L-40TE25		

Ref. No.	Part No.	Description		Remarks
D1008	8-719-076-95	DIODE	PTZ-TE25-18B	
		< FUSE >		
F1001	1-533-829-21	FUSE, CHIP		
		< FERRITE BEAD >		
FB1001	1-414-229-11	FERRITE	0uH	
FB1002	1-414-229-11	FERRITE	0uH	
FB1003	1-414-229-11	FERRITE	0uH	
FB1004	1-414-229-11	FERRITE	0uH	
FB1005	1-414-229-11	FERRITE	0uH	
FB1006	1-414-229-11	FERRITE	0uH	
FB1007	1-414-229-11	FERRITE	0uH	
FB1008	1-414-229-11	FERRITE	0uH	
FB1009	1-414-229-11	FERRITE	0uH	
FB1010	1-414-229-11	FERRITE	0uH	
FB1011	1-414-229-11	FERRITE	0uH	
FB1012	1-414-229-11	FERRITE	0uH	
FB1013	1-414-229-11	FERRITE	0uH	
FB1015	1-414-229-11	FERRITE	0uH	
FB1016	1-414-229-11	FERRITE	0uH	
FB1017	1-414-229-11	FERRITE	0uH	
FB1018	1-414-229-11	FERRITE	0uH	
FB1019	1-414-229-11	FERRITE	0uH	
FB1020	1-414-229-11	FERRITE	0uH	
FB1021	1-414-229-11	FERRITE	0uH	
FB1022	1-414-229-11	FERRITE	0uH	
FB1023	1-414-229-11	FERRITE	0uH	
FB1024	1-414-229-11	FERRITE	0uH	
FB1025	1-414-229-11	FERRITE	0uH	
FB1026	1-414-229-11	FERRITE	0uH	
FB1027	1-414-229-11	FERRITE	0uH	
FB1028	1-414-229-11	FERRITE	0uH	
FB1029	1-414-229-11	FERRITE	0uH	
FB1030	1-414-229-11	FERRITE	0uH	
FB1031	1-414-229-11	FERRITE	0uH	
FB1058	1-414-229-11	FERRITE	0uH	
FB1059	1-414-229-11	FERRITE	0uH	
FB1060	1-414-229-11	FERRITE	0uH	
FB1061	1-414-229-11	FERRITE	0uH	
FB1062	1-414-229-11	FERRITE	0uH	
FB1063	1-414-229-11	FERRITE	0uH	
FB1064	1-414-229-11	FERRITE	0uH	
FB1065	1-414-229-11	FERRITE	0uH	
FB1066	1-414-229-11	FERRITE	0uH	
FB1067	1-414-229-11	FERRITE	0uH	
FB1068	1-414-229-11	FERRITE	0uH	
FB1069	1-414-229-11	FERRITE	0uH	
FB1070	1-414-229-11	FERRITE	0uH	
FB1071	1-414-229-11	FERRITE	0uH	
FB1072	1-414-229-11	FERRITE	0uH	
FB1073	1-414-229-11	FERRITE	0uH	
FB1074	1-414-229-11	FERRITE	0uH	
FB1075	1-414-229-11	FERRITE	0uH	
FB1076	1-414-229-11	FERRITE	0uH	
FB1077	1-414-229-11	FERRITE	0uH	

Ref. No.	Part No.	Description		Remarks
FB1084	1-414-229-11	FERRITE	0uH	
FB1085	1-414-229-11	FERRITE	0uH	
FB1086	1-414-229-11	FERRITE	0uH	
FB1087	1-414-229-11	FERRITE	0uH	
FB1088	1-414-229-11	FERRITE	0uH	
FB1091	1-414-229-11	FERRITE	0uH	
FB1092	1-500-284-21	FERRITE	0uH	
FB1093	1-500-284-21	FERRITE	0uH	
FB1094	1-500-284-21	FERRITE	0uH	
FB1095	1-500-284-21	FERRITE	0uH	
FB1096	1-500-284-21	FERRITE	0uH	
FB1097	1-500-284-21	FERRITE	0uH	
FB1098	1-500-284-21	FERRITE	0uH	
FB1099	1-500-284-21	FERRITE	0uH	
FB1100	1-500-284-21	FERRITE	0uH	
FB1101	1-500-284-21	FERRITE	0uH	
FB1102	1-500-284-21	FERRITE	0uH	
FB1103	1-500-284-21	FERRITE	0uH	
FB1104	1-500-284-21	FERRITE	0uH	
FB1105	1-500-284-21	FERRITE	0uH	
FB1106	1-500-284-21	FERRITE	0uH	
FB1107	1-500-284-21	FERRITE	0uH	
FB1108	1-500-284-21	FERRITE	0uH	
FB1109	1-500-284-21	FERRITE	0uH	
FB1110	1-500-283-11	FERRITE	0uH	
FB1111	1-500-283-11	FERRITE	0uH	
FB1112	1-500-283-11	FERRITE	0uH	
FB1113	1-500-283-11	FERRITE	0uH	
FB1114	1-500-283-11	FERRITE	0uH	
FB1115	1-500-283-11	FERRITE	0uH	
FB1116	1-414-229-11	FERRITE	0uH	
FB1117	1-414-229-11	FERRITE	0uH	
FB1118	1-414-229-11	FERRITE	0uH	
FB1119	1-414-229-11	FERRITE	0uH	
FB1120	1-414-229-11	FERRITE	0uH	
FB1121	1-414-229-11	FERRITE	0uH	
FB1122	1-500-283-11	FERRITE	0uH	
FB1123	1-500-283-11	FERRITE	0uH	
FB1124	1-500-284-21	FERRITE	0uH	
FB1125	1-500-284-21	FERRITE	0uH	
		< FILTER >		
FL101	1-416-405-21	FERRITE	0uH	
FL102	1-416-405-21	FERRITE	0uH	
FL201	1-416-405-21	FERRITE	0uH	
FL202	1-416-405-21	FERRITE	0uH	
FL301	1-416-405-21	FERRITE	0uH	
FL302	1-416-405-21	FERRITE	0uH	
FL401	1-416-405-21	FERRITE	0uH	
FL402	1-416-405-21	FERRITE	0uH	
FL1001	1-233-736-21	FILTER, EMI		
FL1002	1-233-736-21	FILTER, EMI		
FL1003	1-416-846-11	COIL, LINE FILTER		

Ref. No.	Part No.	Description	Remarks
		< IC >	
IC101	8-759-330-74	IC NJM2122M-TE2	
IC102	8-759-357-68	IC NJM2115M-TE2	
IC103	8-759-357-68	IC NJM2115M-TE2	
IC104	8-759-357-68	IC NJM2115M-TE2	
IC105	8-759-689-64	IC AK4522VF-E2	
IC106	8-759-357-68	IC NJM2115M-TE2	
IC107	8-759-357-68	IC NJM2115M-TE2	
IC203	8-759-357-68	IC NJM2115M-TE2	
IC301	8-759-330-74	IC NJM2122M-TE2	
IC302	8-759-357-68	IC NJM2115M-TE2	
IC303	8-759-357-68	IC NJM2115M-TE2	
IC304	8-759-357-68	IC NJM2115M-TE2	
IC305	8-759-689-64	IC AK4522VF-E2	
IC306	8-759-357-68	IC NJM2115M-TE2	
IC307	8-759-357-68	IC NJM2115M-TE2	
IC403	8-759-357-68	IC NJM2115M-TE2	
IC501	8-759-075-69	IC NJU4066BV(TE2)	
IC502	8-759-075-69	IC NJU4066BV(TE2)	
IC503	8-759-075-69	IC NJU4066BV(TE2)	
IC504	8-759-357-68	IC NJM2115M-TE2	
IC505	8-759-357-68	IC NJM2115M-TE2	
IC506	8-759-357-68	IC NJM2115M-TE2	
IC507	8-759-701-54	IC NJM2073D	
IC508	8-759-573-33	IC NJU7082BV(TE2)	
IC509	8-759-573-33	IC NJU7082BV(TE2)	
IC510	8-759-357-68	IC NJM2115M-TE2	
IC511	8-759-357-68	IC NJM2115M-TE2	
IC512	8-759-357-68	IC NJM2115M-TE2	
IC513	8-759-357-68	IC NJM2115M-TE2	
IC701	8-759-476-24	IC BA09SFP-E2	
IC702	8-759-496-15	IC BA05ST-V5	
IC703	8-759-486-73	IC XC62FP3302PR	
IC704	8-759-523-79	IC TC74VHC02FT(EL)	
IC705	8-759-523-78	IC TC74VHC00FT(EL)	
IC706	8-759-357-68	IC NJM2115M-TE2	
IC1001	8-759-484-69	IC MAX3221CAE-TE2	
IC1002	8-759-918-65	IC TL7700CPS-E20	
IC1003	8-759-385-35	IC BR93LC66RF	
IC1004	8-759-641-91	IC RV5C348A-E2	
IC1005	8-759-484-69	IC MAX3221CAE-TE2	
IC1006	8-759-271-86	IC TC7SH04FU-TE85R	
IC1007	8-759-446-15	IC HD6413003TF16	
IC1008	8-759-657-24	IC XC61FC4512PR	
IC1009	8-759-196-96	IC TC7SH08FU-TE85R	
IC1010	8-759-837-09	IC HN27C4096AHG-85	
IC1011	8-759-524-28	IC TC74VHC245FT(EL)	
IC1012	8-759-196-97	IC TC7SH32FU-TE85R	
IC1013	8-759-524-50	IC TC74VHC541FT(EL)	
IC1014	8-759-196-96	IC TC7SH08FU-TE85R	
IC1015	8-759-523-95	IC TC74VHC74FT(EL)	
IC1016	6-700-495-01	IC LC35256FT-70U	
IC1017	8-759-712-42	IC GM71C16160CJ-6T	
IC1018	8-759-271-88	IC TC7SHU04FU-TE85R	
IC1019	8-759-523-95	IC TC74VHC74FT(EL)	
IC1020	8-759-271-86	IC TC7SH04FU-TE85R	

MAIN

Ref. No.	Part No.	Description	Remarks
IC1021	8-759-441-74	IC CXD8655Q	
IC1022	8-759-327-60	IC TC7W125FU-TE12R	
IC1023	8-759-443-00	IC AM7200-50JC	
IC1024	8-759-443-00	IC AM7200-50JC	
IC1025	8-759-443-00	IC AM7200-50JC	
IC1026	8-759-443-00	IC AM7200-50JC	
IC1027	8-759-524-50	IC TC74VHC541FT(EL)	
IC1032	8-759-271-86	IC TC7SH04FU-TE85R	
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	
IC1041	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 TC7SH04FU-TE85R	
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 >	
JC1004	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	

Ref. No.	Part No.	Description	Remarks
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	
		< TRANSISTOR >	
Q101	8-729-427-83	TRANSISTOR XP6501-(TX).SO	
Q102	8-729-230-60	TRANSISTOR 2SA1586YG-TE85L	
Q103	8-729-230-63	TRANSISTOR 2SC4116YG-TE85L	
Q201	8-729-427-83	TRANSISTOR XP6501-(TX).SO	
Q202	8-729-230-60	TRANSISTOR 2SA1586YG-TE85L	
Q203	8-729-230-63	TRANSISTOR 2SC4116YG-TE85L	
Q301	8-729-427-83	TRANSISTOR XP6501-(TX).SO	
Q302	8-729-230-60	TRANSISTOR 2SA1586YG-TE85L	
Q303	8-729-230-63	TRANSISTOR 2SC4116YG-TE85L	
Q401	8-729-427-83	TRANSISTOR XP6501-(TX).SO	
Q402	8-729-230-60	TRANSISTOR 2SA1586YG-TE85L	
Q403	8-729-230-63	TRANSISTOR 2SC4116YG-TE85L	
Q501	8-729-402-93	TRANSISTOR UN5214-TX	
Q502	8-729-402-93	TRANSISTOR UN5214-TX	
Q503	8-729-425-88	TRANSISTOR XP1114-TXE	
Q504	8-729-030-46	TRANSISTOR XP4314-TX	
Q505	8-729-420-74	TRANSISTOR 2SD1328-RST-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	
Q511	8-729-425-18	TRANSISTOR XN4504-TX	
Q512	8-729-425-88	TRANSISTOR XP1114-TXE	
Q513	8-729-402-93	TRANSISTOR UN5214-TX	
Q514	8-729-425-18	TRANSISTOR XN4504-TX	
Q515	8-729-425-88	TRANSISTOR XP1114-TXE	
Q516	8-729-425-88	TRANSISTOR XP1114-TXE	
Q517	8-729-420-74	TRANSISTOR 2SD1328-RST-TX	
Q518	8-729-420-74	TRANSISTOR 2SD1328-RST-TX	
Q519	8-729-425-88	TRANSISTOR XP1114-TXE	
Q520	8-729-420-74	TRANSISTOR 2SD1328-RST-TX	
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 2SB1218A-QRS-TX	
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	

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R101	1-218-859-11	METAL CHIP	3.3K	0.5%	1/16W
R102	1-218-859-11	METAL CHIP	3.3K	0.5%	1/16W
R103	1-216-833-11	METAL CHIP	10K	5%	1/16W
R104	1-216-833-11	METAL CHIP	10K	5%	1/16W
R105	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R106	1-216-833-11	METAL CHIP	10K	5%	1/16W
R107	1-216-833-11	METAL CHIP	10K	5%	1/16W
R108	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R109	1-218-879-11	METAL CHIP	22K	0.5%	1/16W
R110	1-216-809-11	METAL CHIP	100	5%	1/16W
R111	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R112	1-216-833-11	METAL CHIP	10K	5%	1/16W
R113	1-216-833-11	METAL CHIP	10K	5%	1/16W
R114	1-216-833-11	METAL CHIP	10K	5%	1/16W
R115	1-218-887-11	METAL CHIP	47K	0.5%	1/16W
R116	1-218-887-11	METAL CHIP	47K	0.5%	1/16W
R117	1-218-855-11	METAL CHIP	2.2K	0.5%	1/16W
R118	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R119	1-216-853-11	METAL CHIP	470K	5%	1/16W
R120	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R121	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R122	1-216-833-11	METAL CHIP	10K	5%	1/16W
R123	1-216-833-11	METAL CHIP	10K	5%	1/16W
R124	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R125	1-216-851-11	METAL CHIP	330K	5%	1/16W
R126	1-218-867-11	METAL CHIP	6.8K	0.5%	1/16W
R127	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W
R128	1-216-853-11	METAL CHIP	470K	5%	1/16W
R129	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R130	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R131	1-216-833-11	METAL CHIP	10K	5%	1/16W
R132	1-216-833-11	METAL CHIP	10K	5%	1/16W
R133	1-216-833-11	METAL CHIP	10K	5%	1/16W
R134	1-216-833-11	METAL CHIP	10K	5%	1/16W
R135	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R136	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R137	1-218-839-11	METAL CHIP	470	0.5%	1/16W
R138	1-218-839-11	METAL CHIP	470	0.5%	1/16W
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
R157	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R158	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R159	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R160	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R161	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R162	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R163	1-216-841-11	METAL CHIP	47K	5%	1/16W
R164	1-216-841-11	METAL CHIP	47K	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
R170	1-218-887-11	METAL CHIP	47K	0.5%	1/16W
R171	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R201	1-218-859-11	METAL CHIP	3.3K	0.5%	1/16W
R202	1-218-859-11	METAL CHIP	3.3K	0.5%	1/16W
R203	1-216-833-11	METAL CHIP	10K	5%	1/16W
R204	1-216-833-11	METAL CHIP	10K	5%	1/16W
R205	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R209	1-218-879-11	METAL CHIP	22K	0.5%	1/16W
R210	1-216-809-11	METAL CHIP	100	5%	1/16W
R211	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R212	1-216-833-11	METAL CHIP	10K	5%	1/16W
R213	1-216-833-11	METAL CHIP	10K	5%	1/16W
R214	1-216-833-11	METAL CHIP	10K	5%	1/16W
R215	1-218-887-11	METAL CHIP	47K	0.5%	1/16W
R217	1-218-855-11	METAL CHIP	2.2K	0.5%	1/16W
R219	1-216-853-11	METAL CHIP	470K	5%	1/16W
R220	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R221	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R225	1-216-851-11	METAL CHIP	330K	5%	1/16W
R226	1-218-867-11	METAL CHIP	6.8K	0.5%	1/16W
R227	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W
R228	1-216-853-11	METAL CHIP	470K	5%	1/16W
R229	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R230	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R263	1-216-841-11	METAL CHIP	47K	5%	1/16W
R264	1-216-841-11	METAL CHIP	47K	5%	1/16W
R301	1-218-859-11	METAL CHIP	3.3K	0.5%	1/16W
R302	1-218-859-11	METAL CHIP	3.3K	0.5%	1/16W
R303	1-216-833-11	METAL CHIP	10K	5%	1/16W
R304	1-216-833-11	METAL CHIP	10K	5%	1/16W
R305	1-218-895-11	METAL CHIP	100K	0.5%	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	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R309	1-218-879-11	METAL CHIP	22K	0.5%	1/16W
R310	1-216-809-11	METAL CHIP	100	5%	1/16W
R311	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R312	1-216-833-11	METAL CHIP	10K	5%	1/16W
R313	1-216-833-11	METAL CHIP	10K	5%	1/16W
R314	1-216-833-11	METAL CHIP	10K	5%	1/16W
R315	1-218-887-11	METAL CHIP	47K	0.5%	1/16W
R316	1-218-887-11	METAL CHIP	47K	0.5%	1/16W
R317	1-218-855-11	METAL CHIP	2.2K	0.5%	1/16W
R318	1-218-895-11	METAL CHIP	100K	0.5%	1/16W

MAIN

Ref. No.	Part No.	Description			Remarks
R319	1-216-853-11	METAL CHIP	470K	5%	1/16W
R320	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R321	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R322	1-216-833-11	METAL CHIP	10K	5%	1/16W
R323	1-216-833-11	METAL CHIP	10K	5%	1/16W
R324	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R325	1-216-851-11	METAL CHIP	330K	5%	1/16W
R326	1-218-867-11	METAL CHIP	6.8K	0.5%	1/16W
R327	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W
R328	1-216-853-11	METAL CHIP	470K	5%	1/16W
R329	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R330	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R331	1-216-833-11	METAL CHIP	10K	5%	1/16W
R332	1-216-833-11	METAL CHIP	10K	5%	1/16W
R333	1-216-833-11	METAL CHIP	10K	5%	1/16W
R334	1-216-833-11	METAL CHIP	10K	5%	1/16W
R335	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R336	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R337	1-218-839-11	METAL CHIP	470	0.5%	1/16W
R338	1-218-839-11	METAL CHIP	470	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
R349	1-216-841-11	METAL CHIP	47K	5%	1/16W
R350	1-216-841-11	METAL CHIP	47K	5%	1/16W
R351	1-216-833-11	METAL CHIP	10K	5%	1/16W
R352	1-216-833-11	METAL CHIP	10K	5%	1/16W
R353	1-218-879-11	METAL CHIP	22K	0.5%	1/16W
R354	1-218-879-11	METAL CHIP	22K	0.5%	1/16W
R355	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R356	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R357	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R358	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R359	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R360	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R361	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R362	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R363	1-216-841-11	METAL CHIP	47K	5%	1/16W
R364	1-216-841-11	METAL CHIP	47K	5%	1/16W
R366	1-218-851-11	METAL CHIP	1.5K	0.5%	1/16W
R367	1-218-851-11	METAL CHIP	1.5K	0.5%	1/16W
R370	1-218-887-11	METAL CHIP	47K	0.5%	1/16W
R371	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R401	1-218-859-11	METAL CHIP	3.3K	0.5%	1/16W
R402	1-218-859-11	METAL CHIP	3.3K	0.5%	1/16W
R403	1-216-833-11	METAL CHIP	10K	5%	1/16W
R404	1-216-833-11	METAL CHIP	10K	5%	1/16W
R405	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R409	1-218-879-11	METAL CHIP	22K	0.5%	1/16W
R410	1-216-809-11	METAL CHIP	100	5%	1/16W
R411	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R412	1-216-833-11	METAL CHIP	10K	5%	1/16W
R413	1-216-833-11	METAL CHIP	10K	5%	1/16W
R414	1-216-833-11	METAL CHIP	10K	5%	1/16W
R415	1-218-887-11	METAL CHIP	47K	0.5%	1/16W
R417	1-218-855-11	METAL CHIP	2.2K	0.5%	1/16W
R419	1-216-853-11	METAL CHIP	470K	5%	1/16W
R420	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R421	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R425	1-216-851-11	METAL CHIP	330K	5%	1/16W
R426	1-218-867-11	METAL CHIP	6.8K	0.5%	1/16W
R427	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W
R428	1-216-853-11	METAL CHIP	470K	5%	1/16W
R429	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R430	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R463	1-216-841-11	METAL CHIP	47K	5%	1/16W
R464	1-216-841-11	METAL CHIP	47K	5%	1/16W
R501	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W
R502	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R503	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R504	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W
R505	1-216-845-11	METAL CHIP	100K	5%	1/16W
R506	1-216-845-11	METAL CHIP	100K	5%	1/16W
R507	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W
R508	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R509	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R510	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R511	1-216-841-11	METAL CHIP	47K	5%	1/16W
R512	1-216-841-11	METAL CHIP	47K	5%	1/16W
R513	1-216-793-11	RES-CHIP	4.7	5%	1/16W
R514	1-216-833-11	METAL CHIP	10K	5%	1/16W
R515	1-216-833-11	METAL CHIP	10K	5%	1/16W
R516	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R517	1-218-823-11	METAL CHIP	100	0.5%	1/16W
R518	1-216-833-11	METAL CHIP	10K	5%	1/16W
R519	1-216-833-11	METAL CHIP	10K	5%	1/16W
R520	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R521	1-218-887-11	METAL CHIP	47K	0.5%	1/16W
R522	1-216-833-11	METAL CHIP	10K	5%	1/16W
R523	1-216-833-11	METAL CHIP	10K	5%	1/16W
R524	1-216-833-11	METAL CHIP	10K	5%	1/16W
R525	1-218-887-11	METAL CHIP	47K	0.5%	1/16W
R526	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R527	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R528	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W
R530	1-216-821-11	METAL CHIP	1K	5%	1/16W
R531	1-216-833-11	METAL CHIP	10K	5%	1/16W
R532	1-216-821-11	METAL CHIP	1K	5%	1/16W
R533	1-216-821-11	METAL CHIP	1K	5%	1/16W
R534	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R535	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R536	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R537	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R538	1-216-841-11	METAL CHIP	47K	5%	1/16W
R539	1-216-841-11	METAL CHIP	47K	5%	1/16W
R540	1-211-977-11	METAL CHIP	22	0.5%	1/16W
R541	1-216-821-11	METAL CHIP	1K	5%	1/16W
R542	1-216-821-11	METAL CHIP	1K	5%	1/16W
R543	1-211-977-11	METAL CHIP	22	0.5%	1/16W
R544	1-216-833-11	METAL CHIP	10K	5%	1/16W
R545	1-216-833-11	METAL CHIP	10K	5%	1/16W
R546	1-216-833-11	METAL CHIP	10K	5%	1/16W
R547	1-216-813-11	METAL CHIP	220	5%	1/16W

Ref. No.	Part No.	Description			Remarks
R549	1-216-813-11	METAL CHIP	220	5%	1/16W
R550	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R551	1-216-833-11	METAL CHIP	10K	5%	1/16W
R552	1-216-833-11	METAL CHIP	10K	5%	1/16W
R553	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R554	1-218-879-11	METAL CHIP	22K	0.5%	1/16W
R555	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W
R556	1-216-821-11	METAL CHIP	1K	5%	1/16W
R557	1-216-821-11	METAL CHIP	1K	5%	1/16W
R558	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W
R559	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R560	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W
R561	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R562	1-216-841-11	METAL CHIP	47K	5%	1/16W
R563	1-216-841-11	METAL CHIP	47K	5%	1/16W
R564	1-211-977-11	METAL CHIP	22	0.5%	1/16W
R565	1-211-977-11	METAL CHIP	22	0.5%	1/16W
R566	1-216-821-11	METAL CHIP	1K	5%	1/16W
R567	1-216-821-11	METAL CHIP	1K	5%	1/16W
R568	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R569	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R570	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W
R571	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W
R572	1-216-833-11	METAL CHIP	10K	5%	1/16W
R573	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R574	1-216-813-11	METAL CHIP	220	5%	1/16W
R575	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R576	1-216-813-11	METAL CHIP	220	5%	1/16W
R577	1-216-833-11	METAL CHIP	10K	5%	1/16W
R578	1-216-833-11	METAL CHIP	10K	5%	1/16W
R579	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R581	1-216-833-11	METAL CHIP	10K	5%	1/16W
R582	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R583	1-216-813-11	METAL CHIP	220	5%	1/16W
R584	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R585	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R586	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R587	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R588	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R589	1-216-833-11	METAL CHIP	10K	5%	1/16W
R590	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R591	1-216-813-11	METAL CHIP	220	5%	1/16W
R592	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R593	1-216-837-11	METAL CHIP	22K	5%	1/16W
R594	1-218-879-11	METAL CHIP	22K	0.5%	1/16W
R595	1-218-887-11	METAL CHIP	47K	0.5%	1/16W
R596	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R597	1-216-833-11	METAL CHIP	10K	5%	1/16W
R598	1-216-845-11	METAL CHIP	100K	5%	1/16W
R599	1-216-845-11	METAL CHIP	100K	5%	1/16W
R600	1-216-833-11	METAL CHIP	10K	5%	1/16W
R601	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R701	1-216-803-11	METAL CHIP	33	5%	1/16W
R702	1-216-803-11	METAL CHIP	33	5%	1/16W
R703	1-216-803-11	METAL CHIP	33	5%	1/16W
R704	1-216-803-11	METAL CHIP	33	5%	1/16W
R705	1-216-803-11	METAL CHIP	33	5%	1/16W
R706	1-216-803-11	METAL CHIP	33	5%	1/16W
R707	1-216-803-11	METAL CHIP	33	5%	1/16W
R708	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R709	1-216-841-11	METAL CHIP	47K	5%	1/16W
R710	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R711	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R712	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R713	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R714	1-218-899-11	METAL CHIP	150K	0.5%	1/16W
R715	1-218-823-11	METAL CHIP	100	0.5%	1/16W
R716	1-218-907-11	METAL CHIP	330K	0.5%	1/16W
R717	1-218-823-11	METAL CHIP	100	0.5%	1/16W
R718	1-216-833-11	METAL CHIP	10K	5%	1/16W
R719	1-218-887-11	METAL CHIP	47K	0.5%	1/16W
R720	1-216-833-11	METAL CHIP	10K	5%	1/16W
R721	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1001	1-218-847-11	METAL CHIP	1K	0.5%	1/16W
R1002	1-218-823-11	METAL CHIP	100	0.5%	1/16W
R1003	1-218-827-11	METAL CHIP	150	0.5%	1/16W
R1004	1-218-847-11	METAL CHIP	1K	0.5%	1/16W
R1005	1-218-847-11	METAL CHIP	1K	0.5%	1/16W
R1006	1-218-847-11	METAL CHIP	1K	0.5%	1/16W
R1007	1-218-847-11	METAL CHIP	1K	0.5%	1/16W
R1008	1-218-847-11	METAL CHIP	1K	0.5%	1/16W
R1009	1-218-847-11	METAL CHIP	1K	0.5%	1/16W
R1010	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1011	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1012	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1013	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1014	1-218-883-11	METAL CHIP	33K	0.5%	1/16W
R1015	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R1016	1-216-833-11	METAL CHIP	10K	5%	1/16W
R1017	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1018	1-216-797-11	METAL CHIP	10	5%	1/16W
R1019	1-218-847-11	METAL CHIP	1K	0.5%	1/16W
R1020	1-216-837-11	METAL CHIP	22K	5%	1/16W
R1023	1-216-813-11	METAL CHIP	220	5%	1/16W
R1024	1-216-813-11	METAL CHIP	220	5%	1/16W
R1025	1-216-837-11	METAL CHIP	22K	5%	1/16W
R1026	1-216-837-11	METAL CHIP	22K	5%	1/16W
R1027	1-216-837-11	METAL CHIP	22K	5%	1/16W
R1028	1-216-805-11	METAL CHIP	47	5%	1/16W
R1029	1-216-837-11	METAL CHIP	22K	5%	1/16W
R1030	1-216-837-11	METAL CHIP	22K	5%	1/16W
R1031	1-216-805-11	METAL CHIP	47	5%	1/16W
R1032	1-216-837-11	METAL CHIP	22K	5%	1/16W
R1033	1-216-837-11	METAL CHIP	22K	5%	1/16W
R1034	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1035	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1036	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1037	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1038	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1039	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1040	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1041	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1042	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1059	1-216-857-11	METAL CHIP	1M	5%	1/16W
R1060	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1061	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1062	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1063	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1064	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1065	1-216-841-11	METAL CHIP	47K	5%	1/16W

MAIN

Ref. No.	Part No.	Description			Remarks
R1066	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1067	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1068	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1069	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1070	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1071	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1072	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1073	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1074	1-216-817-11	METAL CHIP	470	5%	1/16W
R1075	1-216-817-11	METAL CHIP	470	5%	1/16W
R1076	1-216-817-11	METAL CHIP	470	5%	1/16W
R1077	1-216-817-11	METAL CHIP	470	5%	1/16W
R1078	1-216-817-11	METAL CHIP	470	5%	1/16W
R1079	1-216-817-11	METAL CHIP	470	5%	1/16W
R1080	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1081	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1082	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R1083	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R1084	1-216-833-11	METAL CHIP	10K	5%	1/16W
R1085	1-216-833-11	METAL CHIP	10K	5%	1/16W
R1086	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1087	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1088	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1089	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1090	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1091	1-216-839-11	METAL CHIP	33K	5%	1/16W
R1092	1-216-837-11	METAL CHIP	22K	5%	1/16W
R1093	1-216-821-11	METAL CHIP	1K	5%	1/16W
R1094	1-216-833-11	METAL CHIP	10K	5%	1/16W
R1095	1-216-847-11	METAL CHIP	150K	5%	1/16W
R1096	1-216-847-11	METAL CHIP	150K	5%	1/16W
R1097	1-216-821-11	METAL CHIP	1K	5%	1/16W
R1098	1-216-821-11	METAL CHIP	1K	5%	1/16W
R1099	1-216-811-11	METAL CHIP	150	5%	1/16W
R1100	1-216-821-11	METAL CHIP	1K	5%	1/16W
R1101	1-216-811-11	METAL CHIP	150	5%	1/16W
R1102	1-216-821-11	METAL CHIP	1K	5%	1/16W
R1103	1-216-821-11	METAL CHIP	1K	5%	1/16W
R1104	1-216-821-11	METAL CHIP	1K	5%	1/16W
R1105	1-218-859-11	METAL CHIP	3.3K	0.5%	1/16W
R1106	1-218-855-11	METAL CHIP	2.2K	0.5%	1/16W
R1107	1-218-847-11	METAL CHIP	1K	0.5%	1/16W
R1108	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W
R1109	1-218-859-11	METAL CHIP	3.3K	0.5%	1/16W
R1110	1-218-847-11	METAL CHIP	1K	0.5%	1/16W
R1111	1-216-817-11	METAL CHIP	470	5%	1/16W
R1112	1-216-817-11	METAL CHIP	470	5%	1/16W
R1115	1-216-817-11	METAL CHIP	470	5%	1/16W
R1118	1-216-817-11	METAL CHIP	470	5%	1/16W
R1119	1-216-817-11	METAL CHIP	470	5%	1/16W
R1122	1-216-817-11	METAL CHIP	470	5%	1/16W
R1124	1-216-817-11	METAL CHIP	470	5%	1/16W
R1127	1-216-817-11	METAL CHIP	470	5%	1/16W
R1145	1-216-833-11	METAL CHIP	10K	5%	1/16W
R1147	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1148	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1149	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1150	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1151	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1152	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1153	1-216-853-11	METAL CHIP	470K	5%	1/16W
R1154	1-216-853-11	METAL CHIP	470K	5%	1/16W
R1155	1-216-853-11	METAL CHIP	470K	5%	1/16W
R1156	1-216-817-11	METAL CHIP	470	5%	1/16W
R1157	1-216-817-11	METAL CHIP	470	5%	1/16W
R1158	1-216-817-11	METAL CHIP	470	5%	1/16W
R1159	1-216-817-11	METAL CHIP	470	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
R1162	1-216-809-11	METAL CHIP	100	5%	1/16W
R1163	1-216-809-11	METAL CHIP	100	5%	1/16W
R1164	1-216-809-11	METAL CHIP	100	5%	1/16W
R1165	1-216-809-11	METAL CHIP	100	5%	1/16W
R1166	1-216-817-11	METAL CHIP	470	5%	1/16W
R1167	1-216-817-11	METAL CHIP	470	5%	1/16W
R1169	1-216-817-11	METAL CHIP	470	5%	1/16W
R1170	1-216-817-11	METAL CHIP	470	5%	1/16W
R1174	1-216-817-11	METAL CHIP	470	5%	1/16W
R1176	1-216-817-11	METAL CHIP	470	5%	1/16W
R1179	1-216-817-11	METAL CHIP	470	5%	1/16W
R1181	1-216-817-11	METAL CHIP	470	5%	1/16W
R1182	1-216-833-11	METAL CHIP	10K	5%	1/16W
R1183	1-220-250-11	RES-CHIP	10	5%	1/2W
R1184	1-216-833-11	METAL CHIP	10K	5%	1/16W
R1185	1-220-250-11	RES-CHIP	10	5%	1/2W
R1186	1-216-821-11	METAL CHIP	1K	5%	1/16W
R1187	1-216-821-11	METAL CHIP	1K	5%	1/16W
R1688	1-216-821-11	METAL CHIP	1K	5%	1/16W
R1689	1-216-821-11	METAL CHIP	1K	5%	1/16W
R1690	1-216-833-11	METAL CHIP	10K	5%	1/16W
R1691	1-216-833-11	METAL CHIP	10K	5%	1/16W
R1692	1-216-797-11	METAL CHIP	10	5%	1/16W
R1693	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1694	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1695	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1696	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1697	1-216-817-11	METAL CHIP	470	5%	1/16W
R1698	1-216-817-11	METAL CHIP	470	5%	1/16W
R1699	1-216-817-11	METAL CHIP	470	5%	1/16W
R1700	1-216-817-11	METAL CHIP	470	5%	1/16W
R1701	1-216-817-11	METAL CHIP	470	5%	1/16W
R1702	1-216-817-11	METAL CHIP	470	5%	1/16W
R1703	1-216-817-11	METAL CHIP	470	5%	1/16W
R1704	1-216-817-11	METAL CHIP	470	5%	1/16W
R1705	1-216-817-11	METAL CHIP	470	5%	1/16W
R1706	1-216-817-11	METAL CHIP	470	5%	1/16W
R1707	1-216-809-11	METAL CHIP	100	5%	1/16W
R1708	1-216-809-11	METAL CHIP	100	5%	1/16W
R1709	1-216-809-11	METAL CHIP	100	5%	1/16W
R1710	1-216-809-11	METAL CHIP	100	5%	1/16W
R1711	1-216-817-11	METAL CHIP	470	5%	1/16W
R1712	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1713	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1714	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1715	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1716	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1717	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1719	1-216-809-11	METAL CHIP	100	5%	1/16W
R1720	1-216-809-11	METAL CHIP	100	5%	1/16W
R1721	1-218-887-11	METAL CHIP	47K	0.5%	1/16W

Ref. No.	Part No.	Description			Remarks
R1722	1-218-895-11	METAL CHIP	100K	0.5%	1/16W
R1723	1-218-839-11	METAL CHIP	470	0.5%	1/16W
R1724	1-218-835-11	METAL CHIP	330	0.5%	1/16W
R1725	1-218-839-11	METAL CHIP	470	0.5%	1/16W
R1726	1-218-835-11	METAL CHIP	330	0.5%	1/16W
R1727	1-216-839-11	METAL CHIP	33K	5%	1/16W
R1728	1-216-841-11	METAL CHIP	47K	5%	1/16W
		< 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 >			
X1001	1-579-886-11	VIBRATOR, CRYSTAL 32.768kHz			
X1002	1-577-076-11	VIBRATOR, CRYSTAL 16MHz			
X1003	1-760-173-11	VIBRATOR, CRYSTAL 45.1584MHz			
**********					
*	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

Ref. No.	Part No.	Description			Remarks
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
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

MD

Ref. No.	Part No.	Description	Remarks
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
		< CONNECTOR >	
CN1	1-573-931-11	CONNECTOR, FFC/FPC (ZIF) 22P	
* CN2	1-793-143-11	CONNECTOR, FFC/FPC 17P	
* CN3	1-793-230-21	CONNECTOR, FFC/FPC 4P	
CN5	1-766-654-21	CONNECTOR, FFC/FPC 18P	
		< DIODE >	
D1	8-719-977-00	DIODE DTZ-TT11-5.1C	
D3	8-719-988-61	DIODE 1SS355TE-17	
D6	8-719-049-09	DIODE 1SS367-T3SONY	
D7	8-719-033-60	DIODE F1P2STP	
D8	8-719-033-60	DIODE F1P2STP	
D9	8-719-033-60	DIODE F1P2STP	
D10	8-719-033-60	DIODE F1P2STP	
		< IC >	
IC1	8-759-460-01	IC AT29LV512-20TC-PDF	
IC2	8-759-324-27	IC HD6433040T00X	
IC3	8-759-252-57	IC S-2900AUP-T1	
IC4	8-759-590-46	IC XC62EP3502MR	
IC5	8-759-196-96	IC TC7SH08FU-TE85R	
IC6	8-759-574-62	IC XC61AN4002MR	
IC9	8-759-370-11	IC NJM2100V-TE2	
IC10	8-759-370-11	IC NJM2100V-TE2	
IC11	8-759-196-96	IC TC7SH08FU-TE85R	
IC12	8-759-271-86	IC TC7SH04FU-TE85R	
IC13	8-759-196-96	IC TC7SH08FU-TE85R	
IC14	8-759-196-93	IC TC7SH00FU-TE85R	
IC15	8-759-271-86	IC TC7SH04FU-TE85R	
IC17	8-759-082-61	IC TC4W53FU(TE12R)	
IC18	8-759-082-61	IC TC4W53FU(TE12R)	
IC19	8-759-577-56	IC XC62EP5002MR	
IC20	8-759-196-96	IC TC7SH08FU-TE85R	
IC21	8-752-074-77	IC CXA2523R-T4	
IC22	8-759-370-11	IC NJM2100V-TE2	
IC23	8-759-370-11	IC NJM2100V-TE2	
IC24	8-759-710-79	IC NJM2107F-TE1	
IC26	8-759-370-11	IC NJM2100V-TE2	
IC28	8-759-523-96	IC TC74VHC86FT(EL)	
IC29	8-759-490-41	IC TC74VHCT541AFT(EL)	
IC30	8-759-590-46	IC XC62EP3502MR	
IC33	8-759-196-96	IC TC7SH08FU-TE85R	
IC34	8-759-191-57	IC LM339PW-ELL2000	
IC35	8-759-710-79	IC NJM2107F-TE1	
IC36	8-759-082-61	IC TC4W53FU(TE12R)	
IC37	8-759-442-80	IC MPC17A38ZVMEL	
IC38	8-752-382-23	IC CXD2535CR-1	
IC39	8-759-569-24	IC XC62FP2802MR	
IC40	8-759-196-96	IC TC7SH08FU-TE85R	

Ref. No.	Part No.	Description	Remarks
		< COIL >	
L1	1-414-398-11	INDUCTOR 10uH	
L2	1-414-398-11	INDUCTOR 10uH	
L3	1-410-389-31	INDUCTOR CHIP 47uH	
L4	1-410-389-31	INDUCTOR CHIP 47uH	
L5	1-414-407-11	INDUCTOR 330uH	
L6	1-410-389-31	INDUCTOR CHIP 47uH	
L7	1-410-389-31	INDUCTOR CHIP 47uH	
		< TRANSISTOR >	
Q1	8-729-101-07	TRANSISTOR 2SB798-T1DL	
Q3	8-729-028-91	TRANSISTOR DTA144EUA-T106	
Q4	8-729-101-07	TRANSISTOR 2SB798-T1DL	
Q5	8-729-101-07	TRANSISTOR 2SB798-T1DL	
Q6	8-729-904-60	TRANSISTOR DTB113ZK-T-146	
Q7	8-729-029-14	TRANSISTOR DTC144EUA-T106	
Q8	8-729-230-63	TRANSISTOR 2SC4116YG-TE85L	
Q9	8-729-927-59	TRANSISTOR UMZ1-TL	
Q10	8-729-101-07	TRANSISTOR 2SB798-T1DL	
Q11	8-729-017-65	TRANSISTOR 2SK1764KYTR	
Q12	8-729-017-65	TRANSISTOR 2SK1764KYTR	
Q13	8-729-017-65	TRANSISTOR 2SK1764KYTR	
Q14	8-729-017-65	TRANSISTOR 2SK1764KYTR	
Q15	8-729-028-73	TRANSISTOR DTA114EUA-T106	
Q16	8-729-029-14	TRANSISTOR DTC144EUA-T106	
		< RESISTOR >	
R5	1-216-817-11	METAL CHIP 470 5%	1/16W
R7	1-216-845-11	METAL CHIP 100K 5%	1/16W
R8	1-216-837-11	METAL CHIP 22K 5%	1/16W
R9	1-218-704-11	METAL CHIP 3.3K 0.5%	1/16W
R10	1-218-724-11	METAL CHIP 22K 0.5%	1/16W
R11	1-218-700-11	METAL CHIP 2.2K 0.5%	1/16W
R12	1-216-833-11	METAL CHIP 10K 5%	1/16W
R14	1-216-864-11	METAL CHIP 0 5%	1/16W
R16	1-216-827-11	METAL CHIP 3.3K 5%	1/16W
R17	1-216-833-11	METAL CHIP 10K 5%	1/16W
R18	1-216-833-11	METAL CHIP 10K 5%	1/16W
R19	1-216-845-11	METAL CHIP 100K 5%	1/16W
R20	1-216-833-11	METAL CHIP 10K 5%	1/16W
R21	1-216-821-11	METAL CHIP 1K 5%	1/16W
R22	1-216-833-11	METAL CHIP 10K 5%	1/16W
R23	1-216-833-11	METAL CHIP 10K 5%	1/16W
R32	1-216-833-11	METAL CHIP 10K 5%	1/16W
R33	1-216-833-11	METAL CHIP 10K 5%	1/16W
R34	1-216-833-11	METAL CHIP 10K 5%	1/16W
R35	1-216-833-11	METAL CHIP 10K 5%	1/16W
R37	1-216-833-11	METAL CHIP 10K 5%	1/16W
R40	1-216-809-11	METAL CHIP 100 5%	1/16W
R42	1-216-833-11	METAL CHIP 10K 5%	1/16W
R45	1-218-708-11	METAL CHIP 4.7K 0.5%	1/16W
R46	1-218-712-11	METAL CHIP 6.8K 0.5%	1/16W
R51	1-216-833-11	METAL CHIP 10K 5%	1/16W
R58	1-216-833-11	METAL CHIP 10K 5%	1/16W
R59	1-216-833-11	METAL CHIP 10K 5%	1/16W
R60	1-216-833-11	METAL CHIP 10K 5%	1/16W
R61	1-216-833-11	METAL CHIP 10K 5%	1/16W

Ref. No.	Part No.	Description			Remarks
R62	1-216-833-11	METAL CHIP	10K	5%	1/16W
R63	1-216-833-11	METAL CHIP	10K	5%	1/16W
R64	1-216-833-11	METAL CHIP	10K	5%	1/16W
R65	1-216-833-11	METAL CHIP	10K	5%	1/16W
R66	1-216-821-11	METAL CHIP	1K	5%	1/16W
R67	1-216-821-11	METAL CHIP	1K	5%	1/16W
R71	1-218-704-11	METAL CHIP	3.3K	0.5%	1/16W
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
R80	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R81	1-216-853-11	METAL CHIP	470K	5%	1/16W
R82	1-216-817-11	METAL CHIP	470	5%	1/16W
R84	1-216-811-11	METAL CHIP	150	5%	1/16W
R85	1-216-845-11	METAL CHIP	100K	5%	1/16W
R86	1-218-652-11	METAL CHIP	22	0.5%	1/16W
R87	1-218-668-11	METAL CHIP	100	0.5%	1/16W
R88	1-216-833-11	METAL CHIP	10K	5%	1/16W
R89	1-216-845-11	METAL CHIP	100K	5%	1/16W
R90	1-216-835-11	METAL CHIP	15K	5%	1/16W
R91	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R92	1-216-833-11	METAL CHIP	10K	5%	1/16W
R93	1-216-833-11	METAL CHIP	10K	5%	1/16W
R94	1-216-841-11	METAL CHIP	47K	5%	1/16W
R95	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R96	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R97	1-216-833-11	METAL CHIP	10K	5%	1/16W
R100	1-216-864-11	METAL CHIP	0	5%	1/16W
R101	1-216-864-11	METAL CHIP	0	5%	1/16W
R102	1-216-864-11	METAL CHIP	0	5%	1/16W
R103	1-216-864-11	METAL CHIP	0	5%	1/16W
R104	1-216-864-11	METAL CHIP	0	5%	1/16W
R106	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R107	1-216-817-11	METAL CHIP	470	5%	1/16W
R108	1-216-837-11	METAL CHIP	22K	5%	1/16W
R109	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R110	1-216-821-11	METAL CHIP	1K	5%	1/16W
R111	1-216-837-11	METAL CHIP	22K	5%	1/16W
R112	1-216-864-11	METAL CHIP	0	5%	1/16W
R113	1-216-841-11	METAL CHIP	47K	5%	1/16W
R114	1-216-837-11	METAL CHIP	22K	5%	1/16W
R115	1-216-864-11	METAL CHIP	0	5%	1/16W
R116	1-216-841-11	METAL CHIP	47K	5%	1/16W
R117	1-216-837-11	METAL CHIP	22K	5%	1/16W
R118	1-216-864-11	METAL CHIP	0	5%	1/16W
R119	1-216-841-11	METAL CHIP	47K	5%	1/16W
R120	1-216-837-11	METAL CHIP	22K	5%	1/16W
R121	1-216-864-11	METAL CHIP	0	5%	1/16W
R122	1-216-841-11	METAL CHIP	47K	5%	1/16W
R123	1-216-845-11	METAL CHIP	100K	5%	1/16W
R124	1-216-845-11	METAL CHIP	100K	5%	1/16W
R125	1-216-845-11	METAL CHIP	100K	5%	1/16W
R126	1-216-845-11	METAL CHIP	100K	5%	1/16W
R127	1-216-845-11	METAL CHIP	100K	5%	1/16W
R128	1-216-845-11	METAL CHIP	100K	5%	1/16W
R131	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R132	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R133	1-216-837-11	METAL CHIP	22K	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
R136	1-216-841-11	METAL CHIP	47K	5%	1/16W
R137	1-216-841-11	METAL CHIP	47K	5%	1/16W
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
R146	1-216-845-11	METAL CHIP	100K	5%	1/16W
R147	1-216-849-11	METAL CHIP	220K	5%	1/16W
R148	1-216-841-11	METAL CHIP	47K	5%	1/16W
R149	1-216-845-11	METAL CHIP	100K	5%	1/16W
R150	1-216-843-11	METAL CHIP	68K	5%	1/16W
R151	1-216-817-11	METAL CHIP	470	5%	1/16W
R152	1-216-841-11	METAL CHIP	47K	5%	1/16W
R153	1-216-837-11	METAL CHIP	22K	5%	1/16W
R154	1-216-845-11	METAL CHIP	100K	5%	1/16W
R155	1-216-845-11	METAL CHIP	100K	5%	1/16W
R156	1-216-845-11	METAL CHIP	100K	5%	1/16W
R157	1-216-845-11	METAL CHIP	100K	5%	1/16W
R158	1-216-864-11	METAL CHIP	0	5%	1/16W
R159	1-216-864-11	METAL CHIP	0	5%	1/16W
R160	1-216-864-11	METAL CHIP	0	5%	1/16W
R161	1-216-864-11	METAL CHIP	0	5%	1/16W
R162	1-216-864-11	METAL CHIP	0	5%	1/16W
R168	1-216-817-11	METAL CHIP	470	5%	1/16W
R169	1-216-841-11	METAL CHIP	47K	5%	1/16W
R170	1-216-835-11	METAL CHIP	15K	5%	1/16W
R171	1-216-845-11	METAL CHIP	100K	5%	1/16W
R172	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R173	1-216-833-11	METAL CHIP	10K	5%	1/16W
R174	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R175	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R176	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R177	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R178	1-216-833-11	METAL CHIP	10K	5%	1/16W
R179	1-216-845-11	METAL CHIP	100K	5%	1/16W
R180	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R182	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R183	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R184	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R185	1-216-833-11	METAL CHIP	10K	5%	1/16W
R186	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R189	1-216-841-11	METAL CHIP	47K	5%	1/16W
R190	1-216-853-11	METAL CHIP	470K	5%	1/16W
R191	1-216-837-11	METAL CHIP	22K	5%	1/16W
R192	1-216-841-11	METAL CHIP	47K	5%	1/16W
R193	1-216-841-11	METAL CHIP	47K	5%	1/16W
R194	1-216-853-11	METAL CHIP	470K	5%	1/16W
R196	1-216-841-11	METAL CHIP	47K	5%	1/16W
R201	1-216-841-11	METAL CHIP	47K	5%	1/16W
R202	1-216-837-11	METAL CHIP	22K	5%	1/16W
R203	1-216-833-11	METAL CHIP	10K	5%	1/16W
R205	1-216-833-11	METAL CHIP	10K	5%	1/16W
R206	1-216-864-11	METAL CHIP	0	5%	1/16W
R207	1-216-864-11	METAL CHIP	0	5%	1/16W

MD | SERIAL I/O | SWITCH

Ref. No.	Part No.	Description			Remarks
		< VIBRATOR >			
X1	1-760-469-11	VIBRATOR, CERAMIC 25.4MHz			
X2	1-781-515-11	VIBRATOR, CRYSTAL 10MHz			
**********					
*	1-680-425-11	SERIAL I/O BOARD			
		**********			
		< CAPACITOR >			
C7001	1-162-971-11	CERAMIC CHIP	0.001uF	10.00% 50V	
C7002	1-162-971-11	CERAMIC CHIP	0.001uF	10.00% 50V	
C7003	1-162-971-11	CERAMIC CHIP	0.001uF	10.00% 50V	
		< CONNECTOR >			
CN7001	1-785-125-11	CONNECTOR 6P			
CN7002	1-565-388-21	CONNECTOR, D-SUB 9P (PC)			
		< FERRITE BEAD >			
FB7001	1-414-229-11	FERRITE	0uH		
FB7002	1-414-229-11	FERRITE	0uH		
FB7003	1-414-229-11	FERRITE	0uH		
		< JACK >			
J7001	1-770-902-12	JACK, MODULAR (4C) 6P (DISPLAY)			
		< RESISTOR >			
R7001	1-216-805-11	METAL CHIP	47	5% 1/16W	
R7002	1-216-805-11	METAL CHIP	47	5% 1/16W	
R7003	1-216-805-11	METAL CHIP	47	5% 1/16W	
**********					
*	1-680-432-11	SWITCH BOARD			
		**********			
		< CAPACITOR >			
C5001	1-162-971-11	CERAMIC CHIP	0.001uF	10.00% 50V	
C5002	1-162-971-11	CERAMIC CHIP	0.001uF	10.00% 50V	
C5004	1-162-971-11	CERAMIC CHIP	0.001uF	10.00% 50V	
C5005	1-162-971-11	CERAMIC CHIP	0.001uF	10.00% 50V	
C5007	1-162-971-11	CERAMIC CHIP	0.001uF	10.00% 50V	
C5009	1-162-971-11	CERAMIC CHIP	0.001uF	10.00% 50V	
C5011	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
C5015	1-125-766-11	ELECT	10uF	20.00% 10V	
C5020	1-162-971-11	CERAMIC CHIP	0.001uF	10.00% 50V	
C5021	1-162-971-11	CERAMIC CHIP	0.001uF	10.00% 50V	
C5022	1-162-971-11	CERAMIC CHIP	0.001uF	10.00% 50V	
C5023	1-162-971-11	CERAMIC CHIP	0.001uF	10.00% 50V	
C5024	1-162-971-11	CERAMIC CHIP	0.001uF	10.00% 50V	
		< CONNECTOR >			
CN5001	1-774-666-11	CONNECTOR, FFC/FPC 30P			
		< DIODE >			
D5001	8-719-077-40	LED SLR-322MG3F			
D5002	8-719-077-40	LED SLR-322MG3F			
D5003	8-719-078-28	LED SML-010LT-T86			
D5004	8-719-078-28	LED SML-010LT-T86			
D5005	8-719-077-40	LED SLR-322MG3F			
D5006	8-719-077-40	LED SLR-322MG3F			
D5007	8-719-077-40	LED SLR-322MG3F			
D5008	8-719-077-40	LED SLR-322MG3F			
		< COIL >			
L5001	1-414-398-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q5001	8-729-230-63	TRANSISTOR	2SD1819A-QRS-TX		
Q5002	8-729-230-63	TRANSISTOR	2SD1819A-QRS-TX		
Q5003	8-729-230-63	TRANSISTOR	2SD1819A-QRS-TX		
Q5004	8-729-230-63	TRANSISTOR	2SD1819A-QRS-TX		
		< RESISTOR >			
R5001	1-218-823-11	METAL CHIP	100	0.5% 1/16W	
R5002	1-218-827-11	METAL CHIP	150	0.5% 1/16W	
R5003	1-218-831-11	METAL CHIP	220	0.5% 1/16W	
R5004	1-218-835-11	METAL CHIP	330	0.5% 1/16W	
R5005	1-218-839-11	METAL CHIP	470	0.5% 1/16W	
R5006	1-218-843-11	METAL CHIP	680	0.5% 1/16W	
R5010	1-218-823-11	METAL CHIP	100	0.5% 1/16W	
R5011	1-218-827-11	METAL CHIP	150	0.5% 1/16W	
R5012	1-218-831-11	METAL CHIP	220	0.5% 1/16W	
R5013	1-218-835-11	METAL CHIP	330	0.5% 1/16W	
R5014	1-218-839-11	METAL CHIP	470	0.5% 1/16W	
R5015	1-218-843-11	METAL CHIP	680	0.5% 1/16W	
R5019	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R5020	1-216-813-11	METAL CHIP	220	5% 1/16W	
R5021	1-218-823-11	METAL CHIP	100	0.5% 1/16W	
R5022	1-218-827-11	METAL CHIP	150	0.5% 1/16W	
R5023	1-218-831-11	METAL CHIP	220	0.5% 1/16W	
R5024	1-218-835-11	METAL CHIP	330	0.5% 1/16W	
R5025	1-218-839-11	METAL CHIP	470	0.5% 1/16W	
R5026	1-218-843-11	METAL CHIP	680	0.5% 1/16W	
R5030	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R5031	1-216-813-11	METAL CHIP	220	5% 1/16W	
R5032	1-218-823-11	METAL CHIP	100	0.5% 1/16W	
R5033	1-218-827-11	METAL CHIP	150	0.5% 1/16W	
R5034	1-218-831-11	METAL CHIP	220	0.5% 1/16W	
R5035	1-218-835-11	METAL CHIP	330	0.5% 1/16W	
R5036	1-218-839-11	METAL CHIP	470	0.5% 1/16W	
R5037	1-218-843-11	METAL CHIP	680	0.5% 1/16W	
R5038	1-218-847-11	METAL CHIP	1K	0.5% 1/16W	
R5039	1-218-855-11	METAL CHIP	2.2K	0.5% 1/16W	
R5040	1-218-867-11	METAL CHIP	6.8K	0.5% 1/16W	
R5041	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R5042	1-218-823-11	METAL CHIP	100	0.5% 1/16W	
R5043	1-218-827-11	METAL CHIP	150	0.5% 1/16W	
R5044	1-218-831-11	METAL CHIP	220	0.5% 1/16W	
R5045	1-218-835-11	METAL CHIP	330	0.5% 1/16W	
R5046	1-218-839-11	METAL CHIP	470	0.5% 1/16W	
R5051	1-216-813-11	METAL CHIP	220	5% 1/16W	
R5052	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R5053	1-218-823-11	METAL CHIP	100	0.5% 1/16W	
R5054	1-218-827-11	METAL CHIP	150	0.5% 1/16W	
R5062	1-216-813-11	METAL CHIP	220	5% 1/16W	
R5063	1-216-813-11	METAL CHIP	220	5% 1/16W	
R5064	1-216-813-11	METAL CHIP	220	5% 1/16W	
R5065	1-216-813-11	METAL CHIP	220	5% 1/16W	

Ref. No.	Part No.	Description			Remarks
R5066	1-216-813-11	METAL CHIP	220	5%	1/16W
R5068	1-216-833-11	METAL CHIP	10K	5%	1/16W
R5069	1-216-833-11	METAL CHIP	10K	5%	1/16W
		< SWITCH >			
S5001	1-786-095-11	SWITCH, TACTILE (STOP(A))			
S5002	1-786-095-11	SWITCH, TACTILE (STOP(B))			
S5003	1-786-095-11	SWITCH, TACTILE (PLAY/PAUSE(A))			
S5004	1-786-095-11	SWITCH, TACTILE (REW/BS(A))			
S5005	1-786-095-11	SWITCH, TACTILE (FF/FS(A))			
S5006	1-786-095-11	SWITCH, TACTILE (POINT(A))			
S5007	1-786-095-11	SWITCH, TACTILE (RESET(A))			
S5008	1-786-095-11	SWITCH, TACTILE (REC(A))			
S5009	1-786-095-11	SWITCH, TACTILE (REC(B))			
S5010	1-786-095-11	SWITCH, TACTILE (PLAY/PAUSE(B))			
S5011	1-786-095-11	SWITCH, TACTILE (RW/BS(B))			
S5012	1-786-095-11	SWITCH, TACTILE (FF/FS(B))			
S5013	1-786-095-11	SWITCH, TACTILE (POINT(B))			
S5014	1-786-095-11	SWITCH, TACTILE (RESET(B))			
S5015	1-786-095-11	SWITCH, TACTILE (INDEX)			
S5016	1-554-088-00	SWITCH, KEY BOARD (EJECT(A))			
S5017	1-554-088-00	SWITCH, KEY BOARD (EJECT(B))			
S5019	1-786-095-11	SWITCH, TACTILE (DECK A)			
S5020	1-786-095-11	SWITCH, TACTILE (DECK B)			
S5021	1-786-095-11	SWITCH, TACTILE (SEARCH)			
S5022	1-786-095-11	SWITCH, TACTILE (0)			
S5023	1-786-095-11	SWITCH, TACTILE (1)			
S5024	1-786-095-11	SWITCH, TACTILE (2)			
S5025	1-786-095-11	SWITCH, TACTILE (3)			
S5026	1-786-095-11	SWITCH, TACTILE (4)			
S5027	1-786-095-11	SWITCH, TACTILE (5)			
S5028	1-786-095-11	SWITCH, TACTILE (6)			
S5029	1-786-095-11	SWITCH, TACTILE (7)			
S5030	1-786-095-11	SWITCH, TACTILE (8)			
S5031	1-786-095-11	SWITCH, TACTILE (9)			
S5032	1-786-095-11	SWITCH, TACTILE (FUNCTION)			
S5033	1-786-095-11	SWITCH, TACTILE (UP)			
S5034	1-786-095-11	SWITCH, TACTILE (DOWN)			
S5035	1-786-095-11	SWITCH, TACTILE (DELETE)			
S5036	1-786-095-11	SWITCH, TACTILE (LEFT)			
S5037	1-786-095-11	SWITCH, TACTILE (RIGHT)			
S5038	1-786-095-11	SWITCH, TACTILE (ENTER)			
S5039	1-786-095-11	SWITCH, TACTILE (DISPLAY MODE A)			
S5040	1-786-095-11	SWITCH, TACTILE (DISPLAY MODE B)			
S5041	1-476-470-11	ENCODER (ROTARY) (INDEZ SEARCH/SELECT)			
S5042	1-570-707-21	SWITCH, SLIDECH (INDEX SEARCH/TIME SEARCH)			
**********					
		MUTE BOARD			
		**********			
		< TRANSISTOR >			
Q901	8-729-420-74	TRANSISTOR	2SD1328-RST-TX		
Q902	8-729-420-74	TRANSISTOR	2SD1328-RST-TX		
Q903	8-729-425-88	TRANSISTOR	XP1114-TXE		
Q904	8-729-420-74	TRANSISTOR	2SD1328-RST-TX		
Q905	8-729-420-74	TRANSISTOR	2SD1328-RST-TX		

Ref. No.	Part No.	Description			Remarks
Q906	8-729-420-74	TRANSISTOR	2SD1328-RST-TX		
Q907	8-729-425-88	TRANSISTOR	XP1114-TXE		
Q908	8-729-420-74	TRANSISTOR	2SD1328-RST-TX		
Q909	8-729-425-88	TRANSISTOR	XP1114-TXE		
		< RESISTOR >			
R901	1-218-851-11	METAL CHIP	1.5K	0.5%	1/16W
R902	1-218-851-11	METAL CHIP	1.5K	0.5%	1/16W
R903	1-218-851-11	METAL CHIP	1.5K	0.5%	1/16W
R904	1-218-851-11	METAL CHIP	1.5K	0.5%	1/16W
R905	1-218-851-11	METAL CHIP	1.5K	0.5%	1/16W
R906	1-218-851-11	METAL CHIP	1.5K	0.5%	1/16W
**********					
*	1-680-424-11	VOLUME BOARD			
		**********			
		< CONNECTOR >			
CN6001	1-785-125-11	CONNECTOR 6P			
* CN6002	1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD)8P			
		< VARIABLE RESISTOR >			
RV6001	1-227-316-11	RES, VAR (LCD CONTRAST)			
RV6002	1-227-315-11	RES, VAR (MONITOR VOL)			
**********					

The un-mounted board and the mounted board of the MUTE BOARD are not supplied. Only the mounted parts are supplied.

Ref. No.	Part No.	Description	Remarks
		MISCELLANEOUS	
		**********	
101	1-476-469-11	LIGHT UNIT, BACK	
102	1-803-019-11	DISPLAY PANEL, LIQUID CRYSTAL	
109	1-757-623-11	CABLE, FLEXIBLE FLAT (20 CORE)	
112	1-680-433-11	B-LIGHT FLEXIBLE BOARD	
* 151	1-757-622-11	CABLE, FLEXIBLE FLAT (17 CORE)	
* 153	1-757-621-11	CABLE, FLEXIBLE FLAT (17 CORE)	
157	1-509-184-51	CONNECTOR (RECEPTACLE) 3P	
260	1-777-945-11	WIRE, FLAT TYPE (18 CORE)	
⚠281	8-583-027-07	OPTICAL PICK-UP KMS-250A	
M902	1-698-454-12	MOTOR,STEPPING (F LA15-2002-A) (SLED)	
M903	1-698-455-11	MOTOR, DC GEARED (12C-082G) (LODING)	
SP101	1-504-888-12	SPEAKER (5.0cm)	
		ACCESSORIES & PACKING MATERIALS	
		**********	
⚠	1-418-811-11	ADAPTOR, AC (AC-MDCC120)	
	1-528-174-31	BATTERY, LITHIUM (CR2032 TYPE)	
⚠	1-757-495-11	CORD, POWER (SET)	
	3-868-380-11	MANUAL, INSTRUCTION (ENGLISH)	

Ref. No.	Part No.	Description	Remarks
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-133-19	SCREW +P 2.6X6 TYPE2 SLIT	
#2	7-682-947-01	SCREW +PSW 3X6	
#3	7-682-647-09	SCREW +PS 3X6	
#4	7-682-965-01	SCREW +PSW 4X16	
#5	7-624-200-01	NUT, PUSH 1.5	
#6	7-628-253-35	SCREW +PS 2X8	
#7	7-682-948-09	SCREW +PSW 3X8	
#8	7-682-648-09	SCREW +PS 3X8	
#12	7-627-000-00	SCREW,PRECISION +P1.7X2.2TYPE3	
#13	7-623-505-01	LUG, 2	

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

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.1	2001.07	Correction of exploded views and electrical parts list. (SPM-01024)
1.0	2001.05	New