AVD-C700ES

SERVICE MANUAL

US Model
Canadian Model

Ver 1.1 2004. 09

Model Name Using Similar Mechanism	NEW
Mechanism Type	CDM79-DVBU22
Optical Pick-up Name	TDP022W

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 8 ohm loads, both channels driven, from 20 – 20,000 Hz; rated 120 watts per channel minimum RMS power, with no more than 0.7 % total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Stereo mode	120 W + 120 W (8/4 ohms, 20 – 20,000 Hz, THD 0.7 %)
Surround mode	Front: 120 W + 120 W Center*: 120 W Surround*: 120 W + 120 W Surround back*: 120 W (8/4 ohms, 20 – 20,000 Hz, THD 0.7 %)

** Depending on the sound field settings and the source, there may be no sound output.*

Inputs (Analog)	ANALOG IN: Sensitivity: 150 mV Impedance: 50 kilohms
Inputs (Digital)	DIGITAL IN OPTICAL: DIGITAL IN COAXIAL: Impedance: 75 ohms
Outputs (Analog)	PHONES: Accepts low- and high-impedance headphones
Outputs (Digital)	DIGITAL OUT OPTICAL

– Continued on next page –

SUPER AUDIO CD/DVD RECEIVER

9-961-309-02
2004I04-1

Sony Corporation
Audio Group
Published by Sony Engineering Corporation

SONY®

Super Audio CD/DVD system

Laser	Semiconductor laser (Super Audio CD/DVD: λ = 650 nm) (CD: λ = 780 nm) Emission duration: continuous
Signal format system	NTSC

FM tuner section

System	PLL quartz-locked digital synthesizer system
Tuning range	87.5 – 108.0 MHz (100 kHz step)
Antenna	FM wire antenna
Antenna terminals	75 ohms, unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

System	PLL quartz-locked digital synthesizer system
Tuning range	530 – 1,710 kHz (with the interval set at 10 kHz) 531 – 1,710 kHz (with the interval set at 9 kHz)
Antenna	Loop antenna
Intermediate frequency	450 kHz

Video section

Inputs	Video: 1 Vp-p 75 ohms S-video: Y: 1 Vp-p 75 ohms C: 0.286 Vp-p 75 ohms
Outputs	Video: 1 Vp-p 75 ohms S-video: Y: 1 Vp-p 75 ohms C: 0.286 Vp-p 75 ohms Component: Y: 1 Vp-p 75 ohms PB/CB: 0.65 Vp-p PR/CR: 0.65 Vp-p

General

Power requirements	120 V AC, 60 Hz
Power consumption	180 W 1 W (at the Power Saving Mode)
Dimensions (approx.)	430 × 136 × 448 mm (17 × 5 3/8 × 17 3/4 inches) (w/h/d) incl. projecting parts
Mass (approx.)	9.7 kg (21 lb. 7 oz.)
Operating temperature	5 °C to 35 °C (41 °F to 95 °F)
Operating humidity	5 % to 90 %
Supplied accessories	AM loop antenna (1) FM wire antenna (1) S Video cord (1) Remote Commander (remote) RM-CL700M (1) R6 (size AA) batteries (2) Operating instructions (1)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes).
Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

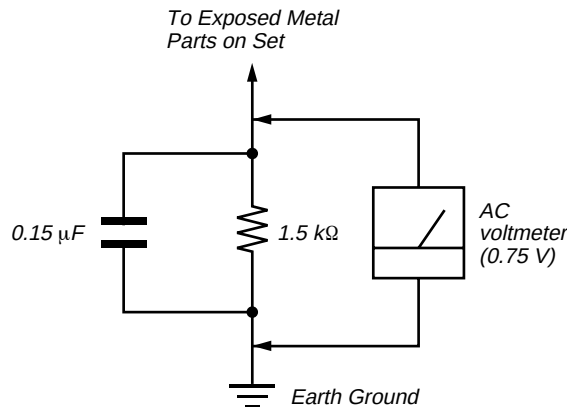

Fig. A. Using an AC voltmeter to check AC leakage.

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.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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.

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.

CAUTION

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

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 viscou-s (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

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

DISC TRAY LOCK

The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Releasing Procedure:

1. Press two buttons of [FUNCTION −] and [I◀◀ PREV] simultaneously.
2. The message “UNLOCKED” is displayed and the tray is unlocked.

Note: When “LOCKED” is displayed, the tray lock is not released by turning power on/off with the [POWER] button.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the “S curve check” in “DVD section adjustment” and check that the S curve waveforms is output three times.

NOTE OF REPLACING THE MB BOARD

When replacing the MB board, since the adjustment value is not set up correctly, “Drive Auto Adjustment” can’t be performed.
In this case, initialize Memory in the following procedures.

Procedure:

1. Set the test mode. (See page 20)
2. Press the [2] key of the remote commander, and set the “DRIVE MANUAL OPERATION”. (See page 23)
3. Press the [6] key of the remote commander, and set the “2-6, Memory Check”. (See page 25)
4. Press the [CLEAR] key of the remote commander, and initialize Memory.

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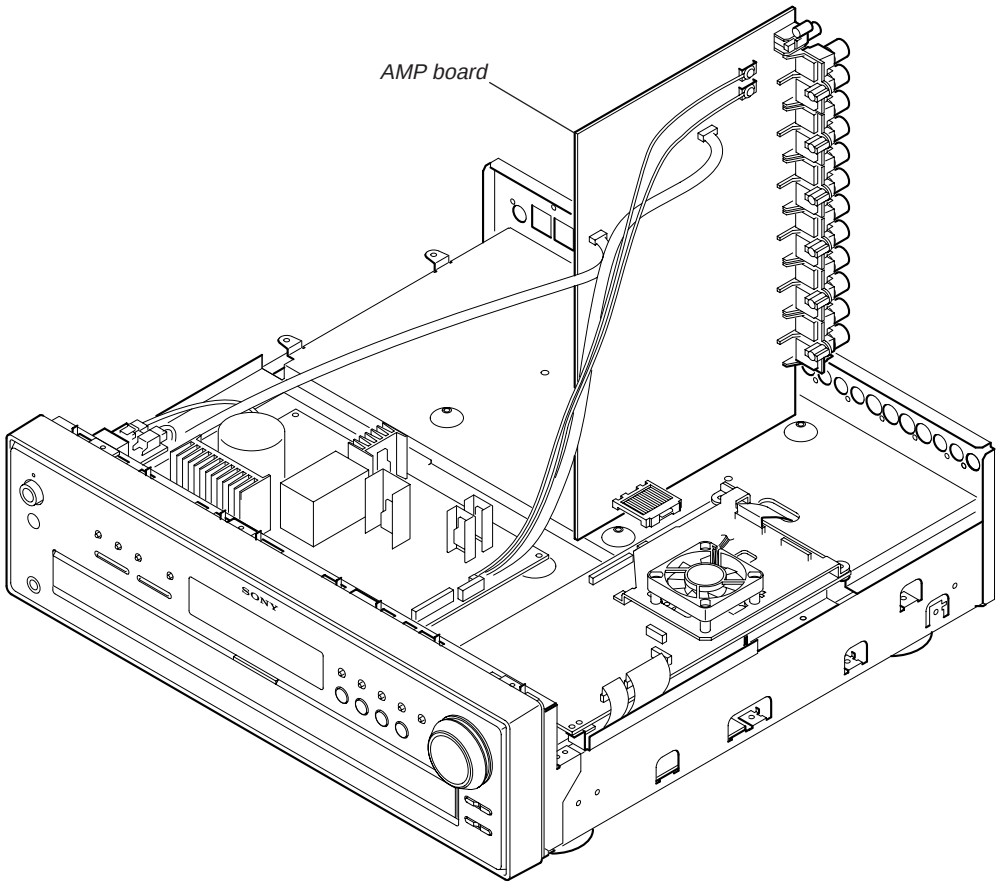
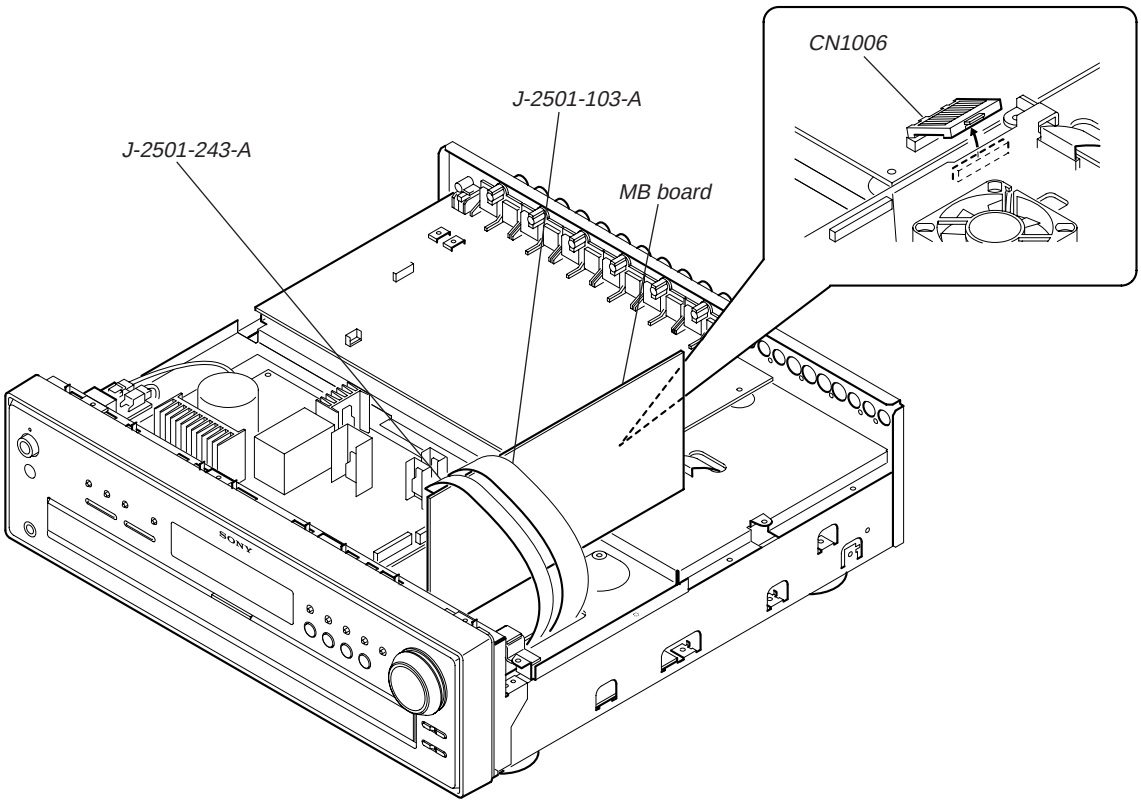
SECTION 1
SERVICING NOTES

• SERVICING POSITION

1. SERVICING POSITION OF AMP BOARD

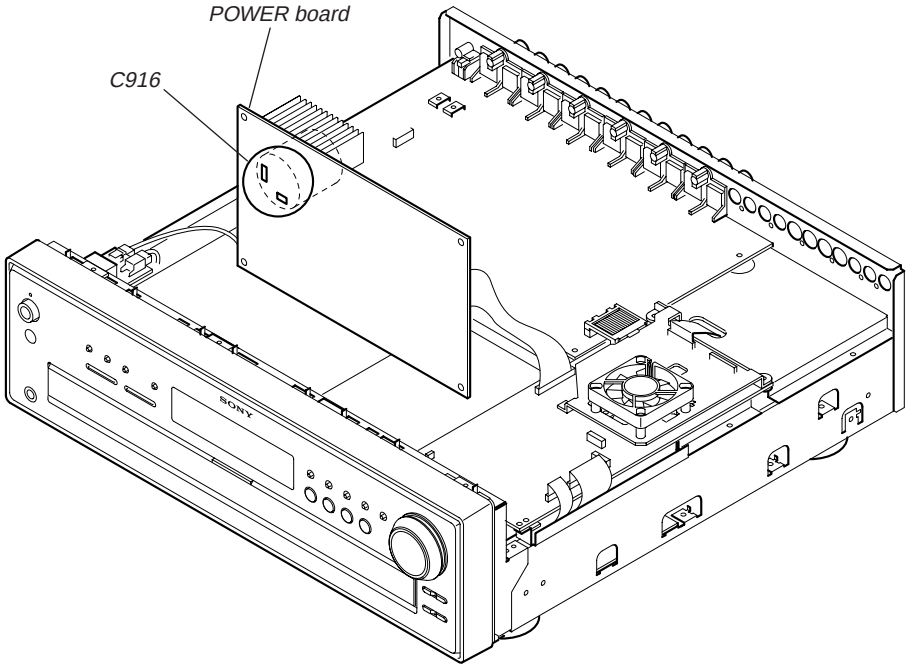


2. SERVICING POSITION OF MB BOARD

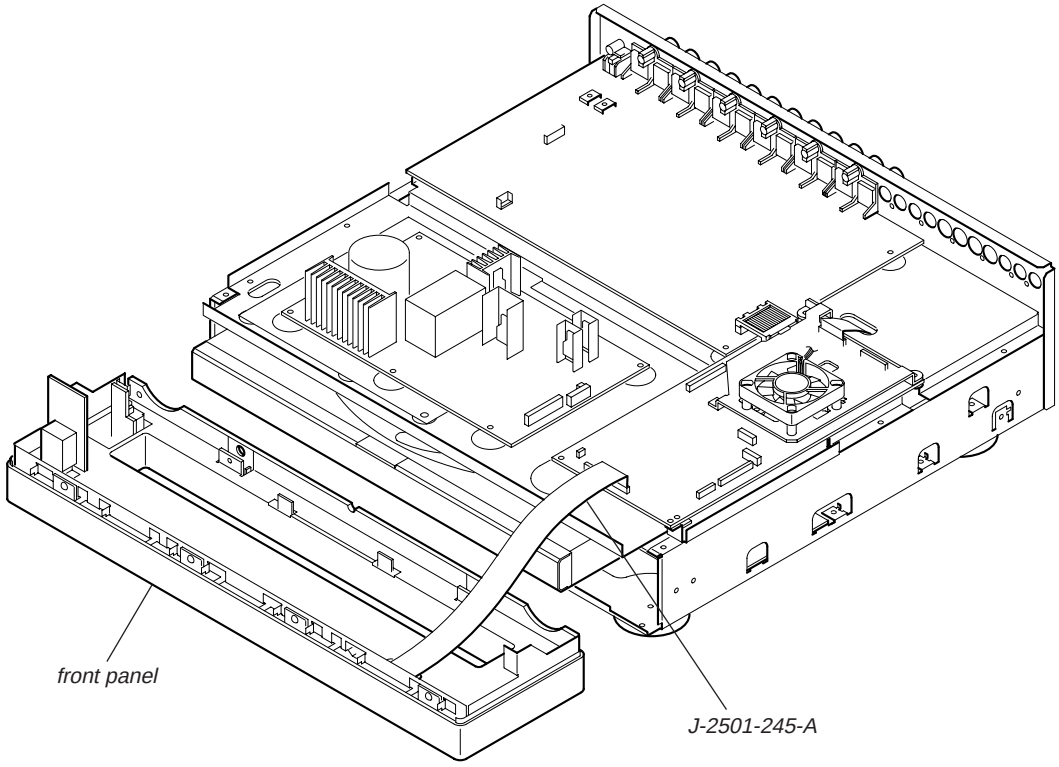


3. SERVICING POSITION OF POWER BOARD

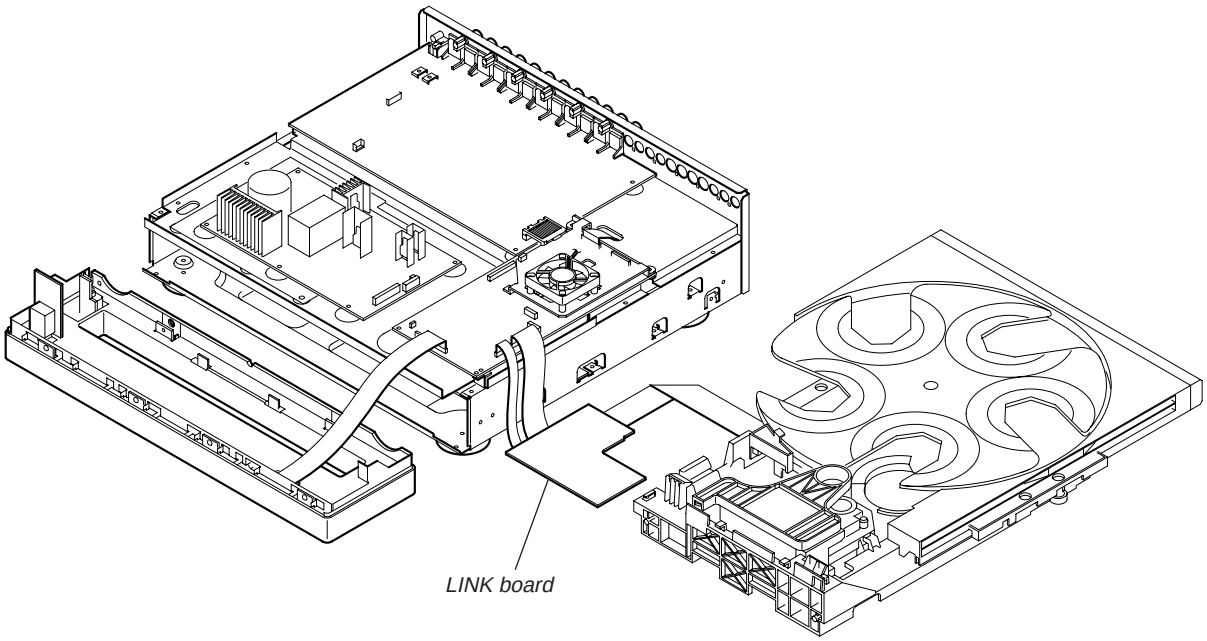
• Please perform after discharge electricity of C916 that check of power board.



4. SERVICING POSITION OF FRONT PANEL

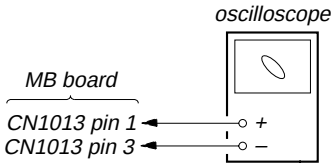


5. SERVICING POSITION OF CDM



6. DECISION TO PASS OR FAIL OF THE OPTICAL PICK-UP BLOCK

Connection:

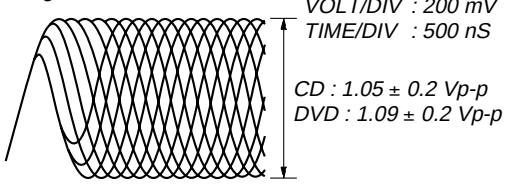


Procedure:

1. Connect an oscilloscope to test point ① pin and ③ pin of CN1013 on the MB board.
2. Turn the power on.
3. Put the disc (LUV-P01) (Part No.: 4-999-032-01) (CD) in to playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.
5. Put the disc (TDV-520CSO) (Part No.: J-2501-236-A) (DVD) in to playback.
6. Perform Comfirmation in the same manner as step 4.

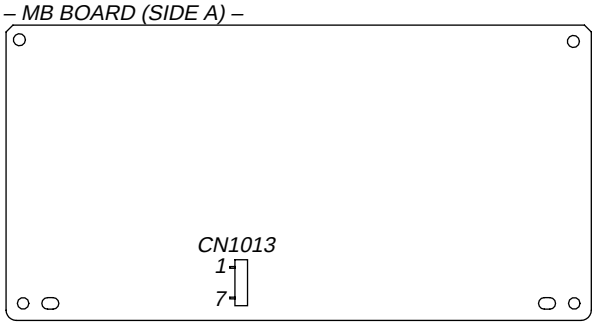
Note: A clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

RF signal waveform



Checking Location:

– MB BOARD (SIDE A) –



SECTION 2
GENERAL

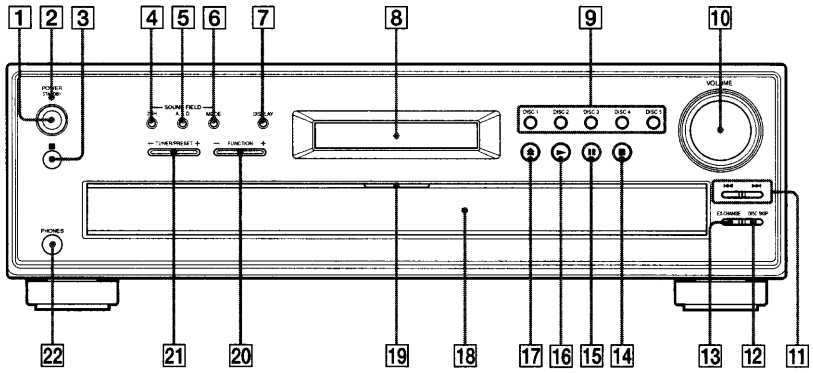
This section is extracted from instruction manual.

• LOCATION OF CONTROLS

Index to Parts and Controls

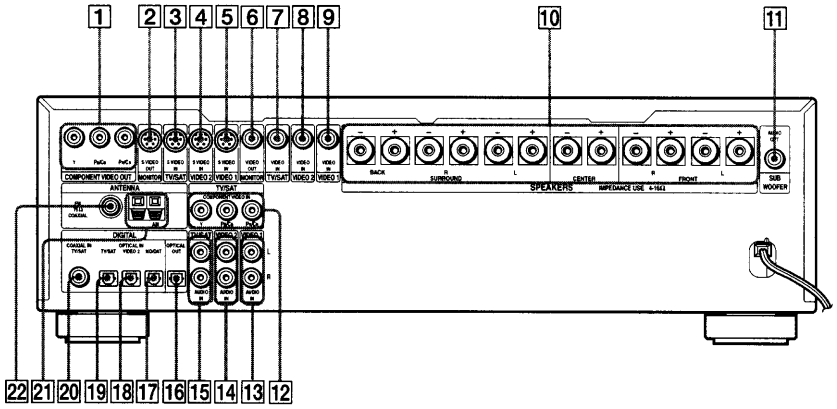
For more information, refer to the pages indicated in parentheses.

Front Panel



1 Power switch (23)
2 STANDBY indicator (23)
3 ▣ (remote sensor) (13)
4 2CH (47)
5 A.F.D. (47)
6 MODE (49)
7 DISPLAY (40, 70)
8 Front Panel Display (90)
9 DISC1-DISC5 (23)
10 VOLUME control (23)
11 I◄◄/►►I (24)
12 DISC SKIP (23, 25)
13 EX-CHANGE (23, 25)
14 ■ (stop) (23)
15 II (pause) (24)
16 ► (play) (23)
17 ▲ (open/close) (23)
18 Disc Tray (23)
19 MULTI CHANNEL DECODING indicator (72)
20 FUNCTION –/+ (68)
21 TUNER/PRESET –/+ (69)
22 PHONES jack (23)

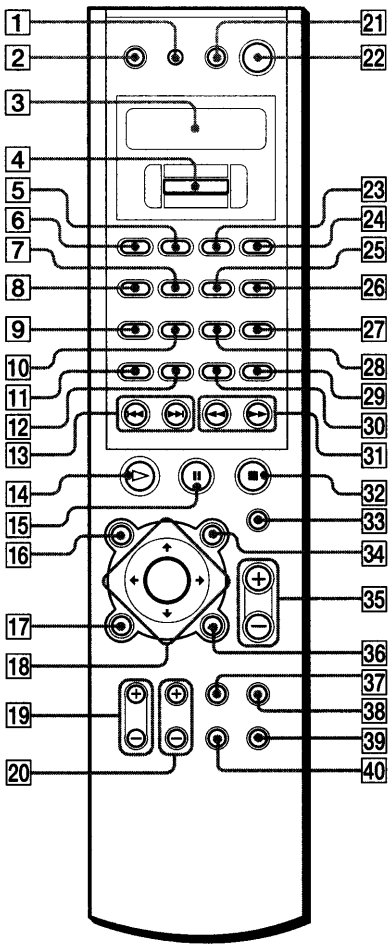
Rear Panel



1 COMPONENT VIDEO OUT jacks (19)
2 MONITOR (S VIDEO OUT) jack (19)
3 TV/SAT (S VIDEO IN) jack (19)
4 VIDEO2 (S VIDEO IN) jack (19)
5 VIDEO1 (S VIDEO IN) jack (19)
6 MONITOR (VIDEO OUT) jack (19)
7 TV/SAT (VIDEO IN) jack (19)
8 VIDEO2 (VIDEO IN) jack (19)
9 VIDEO1 (VIDEO IN) jack (19)
10 SPEAKER terminals (14)
11 SUB WOOFER (ANALOG OUT) jack (14)
12 COMPONENT VIDEO IN (TV/SAT) jacks (19)
13 VIDEO1 (AUDIO L/R IN) jack (19)
14 VIDEO2 (AUDIO L/R IN) jack (19)
15 TV/SAT (AUDIO L/R IN) jack (19)
16 DIGITAL (OPTICAL OUT) jack (19)
17 DIGITAL (OPTICAL IN MD/DAT) jack (19)
18 DIGITAL (OPTICAL IN VIDEO2) jack (19)
19 DIGITAL (OPTICAL IN TV/SAT) jack (19)
20 DIGITAL (COAXIAL IN TV/SAT) jack (19)
21 AM terminals (17)
22 FM 75Ω COAXIAL jack (17)

Additional Information

Remote



Notes

- This remote control glows in the dark. However, before glowing, the remote must be exposed to light for a while.
- When you operate a DVD player, press FUNCTION [6] and select "DVD" using Cursor key [4], and then change the mode of the receiver to DVD.

[1] **RM SET UP (63, 65, 66, 67)**

[2] **TV I/⏻ (on/standby) (64, 65)**

[3] **Display (62)**

[4] **Cursor key (23, 24, 27, 33, 38, 54, 57, 59, 63, 64, 65, 66, 67, 68, 69, 70, 73)**

[5] **DISC (23, 24)**

[6] **FUNCTION (66, 67, 68, 69, 70)**

[7] **AUDIO (45)**

[8] **PLAY MODE (33, 35)**

[9] **REPEAT (33, 36)**

[10] **ANGLE (54)**

[11] **DISPLAY/JUMP (40, 70)**

[12] **SUBTITLE (55)**

[13] **I◄◄/►►I, CH –/+, PRESET –/+ (24, 27, 67, 69, 70, 71)**

[14] **▷ (play) (23, 24, 26, 27, 32, 33, 35, 37, 59)**

[15] **II (pause) (24)**

[16] **TOP MENU/GUIDE ALBUM– (27, 29, 30, 66)**

[17] **DVD DISPLAY (29, 30, 35, 38, 43, 44, 45, 54, 55, 56, 57)**

[18] **←/↑/↓/→ ENTER (27, 29, 30, 32, 33, 35, 38, 45, 48, 51, 52, 53, 54, 55, 56, 57, 59, 69, 72, 73)**

[19] **TV VOL +/– (65)**

[20] **TV CH +/– (65)**

[21] **AV I/⏻ (on/standby) (65, 66, 67)**

[22] **I/⏻ (on/standby) (23, 69)**

[23] **NUM (27, 33, 38, 54, 57, 59, 73)**

[24] **2CH (47)**

[25] **BAND (69, 70)**

[26] **A.F.D. (47, 48)**

[27] **MODE (49)**

[28] **STEREO/MONO (70)**

[29] **CLEAR (33, 35, 36, 38)**

[30] **ENTER**

[31] **◄◄/►►, SLOW ◄I/I►, TUNIING –/+ (31, 37, 69, 70)**

[32] **■ (stop) (23, 24, 26, 27, 57)**

[33] **OPEN/CLOSE (23)**

[34] **AV MENU ALBUM+ (27, 29, 30, 66)**

[35] **VOLUME +/– (24, 70)**

[36] **↩ RETURN/EXIT (27, 29, 30, 33, 38, 59, 73)**

[37] **TV/VIDEO (65)**

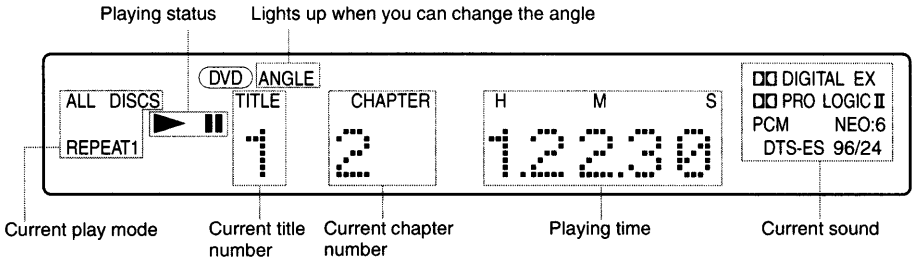
[38] **MUTING (24)**

[39] **AMP MENU (48, 51,52, 53, 69, 71, 72)**

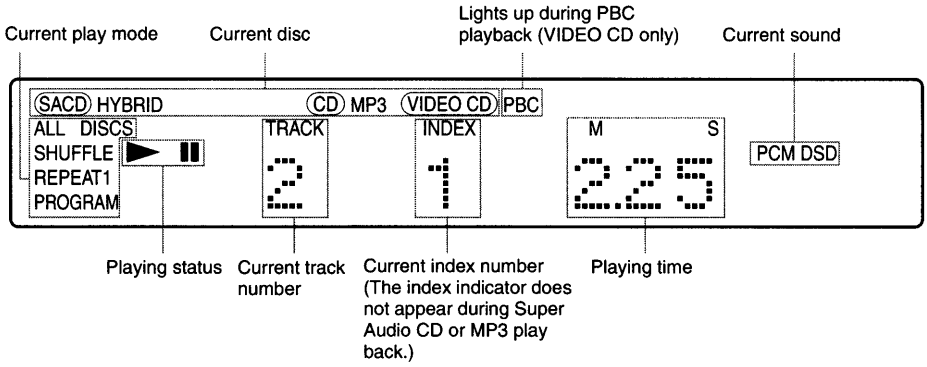
[40] **DVD SETUP (59, 73)**

Front Panel Display

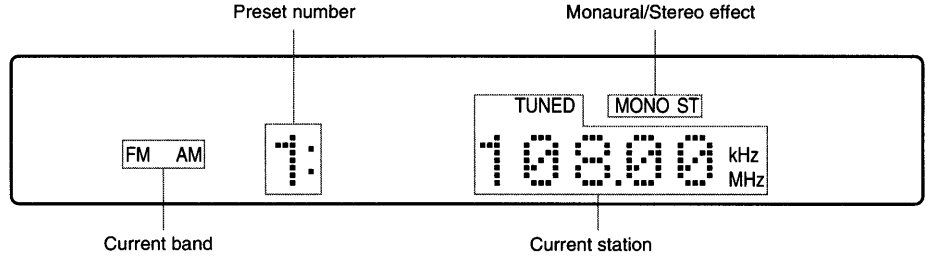
When playing back a DVD



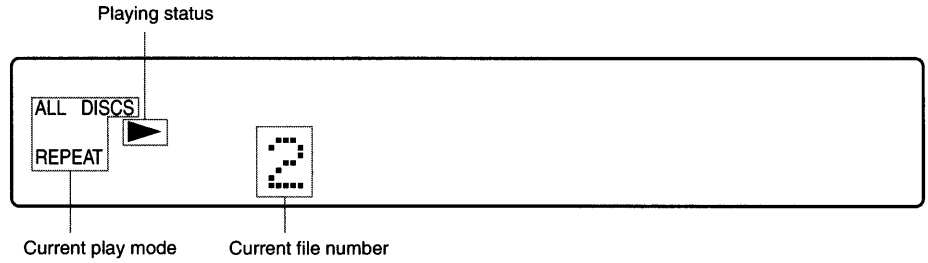
When playing back a Super Audio CD, CD, VIDEO CD, or MP3



When listening to the radio

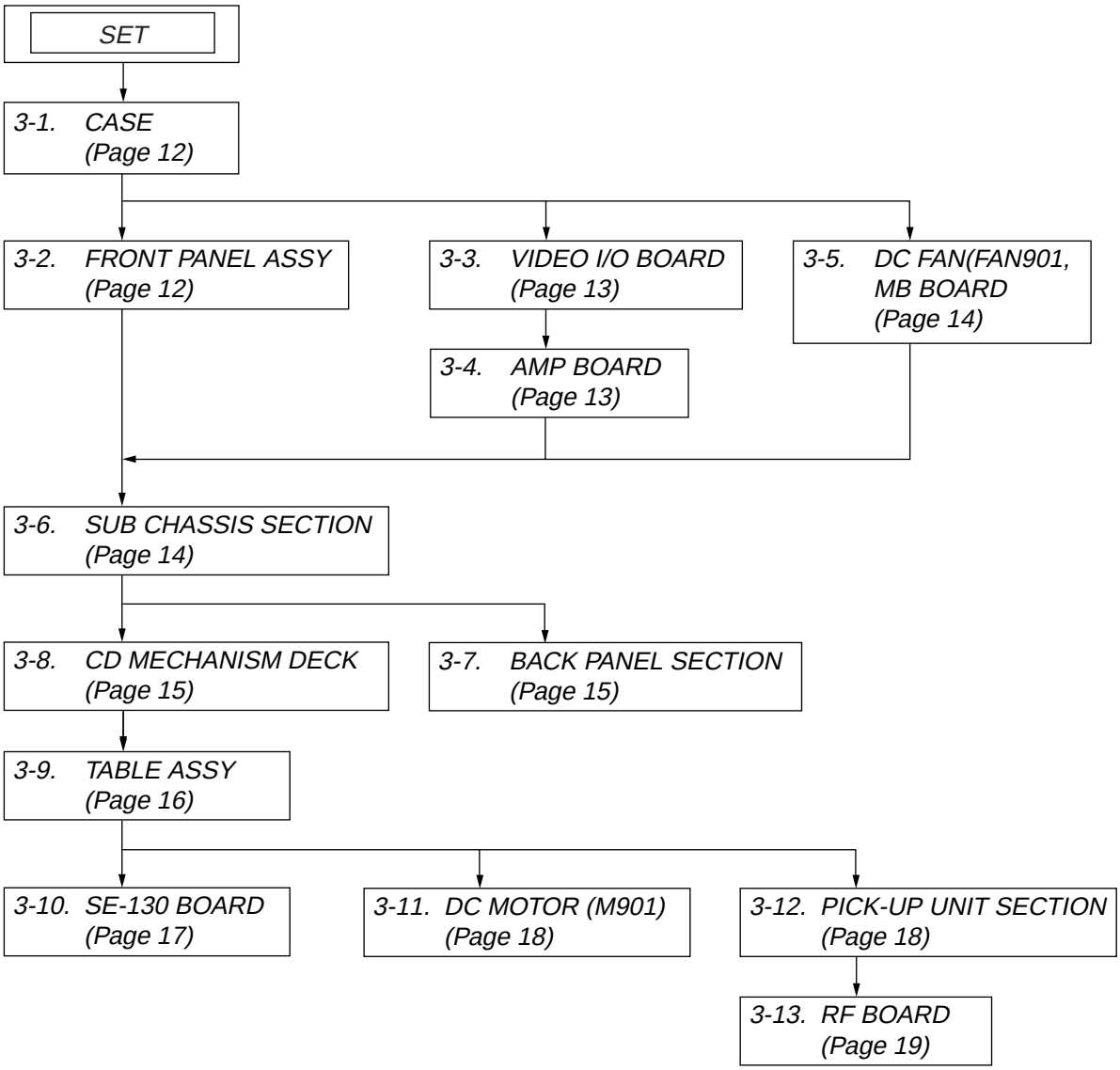


When playing back a JPEG file



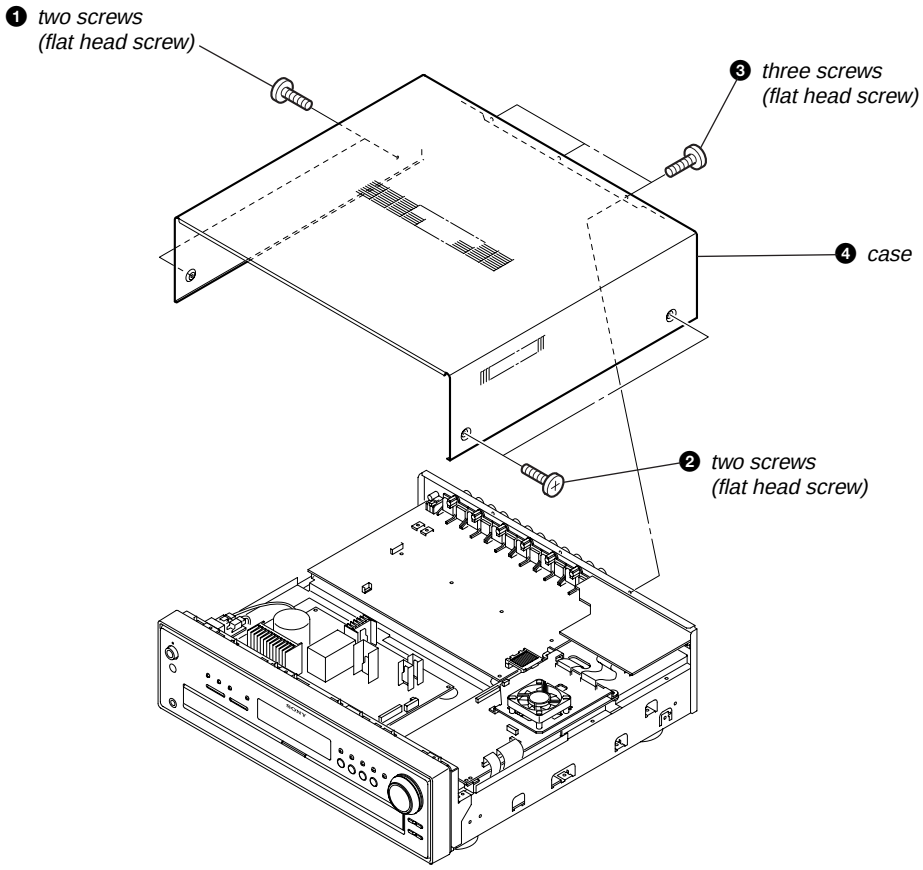
SECTION 3
DISASSEMBLY

Note: This set can be disassemble according to the following sequence.

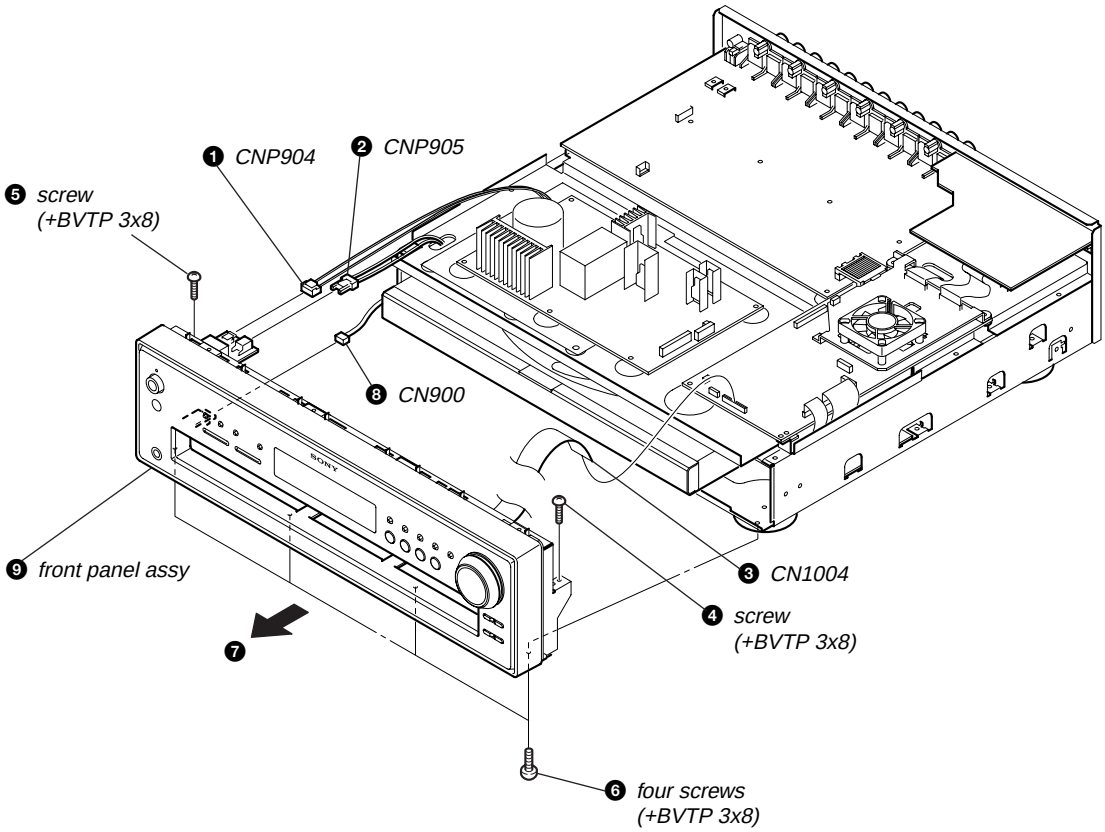


Note: Follow the disassembly procedure in the numerical order given.

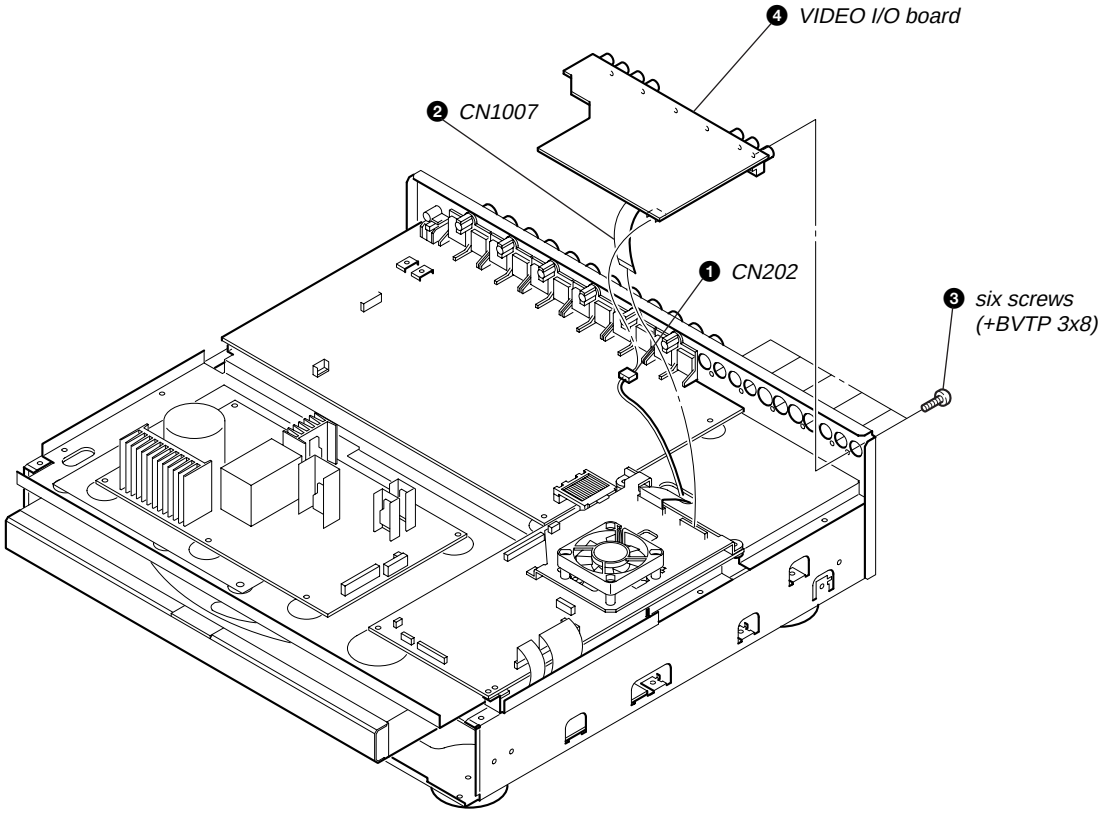
3-1. CASE



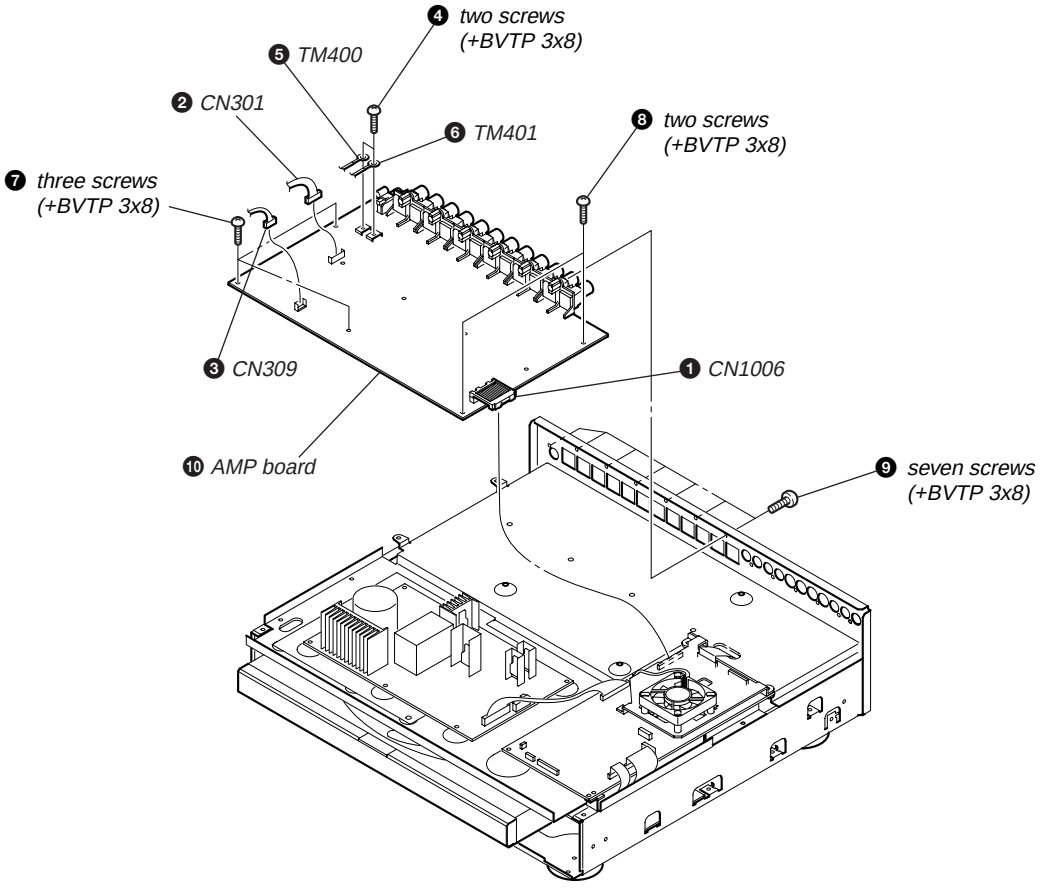
3-2. FRONT PANEL ASSY



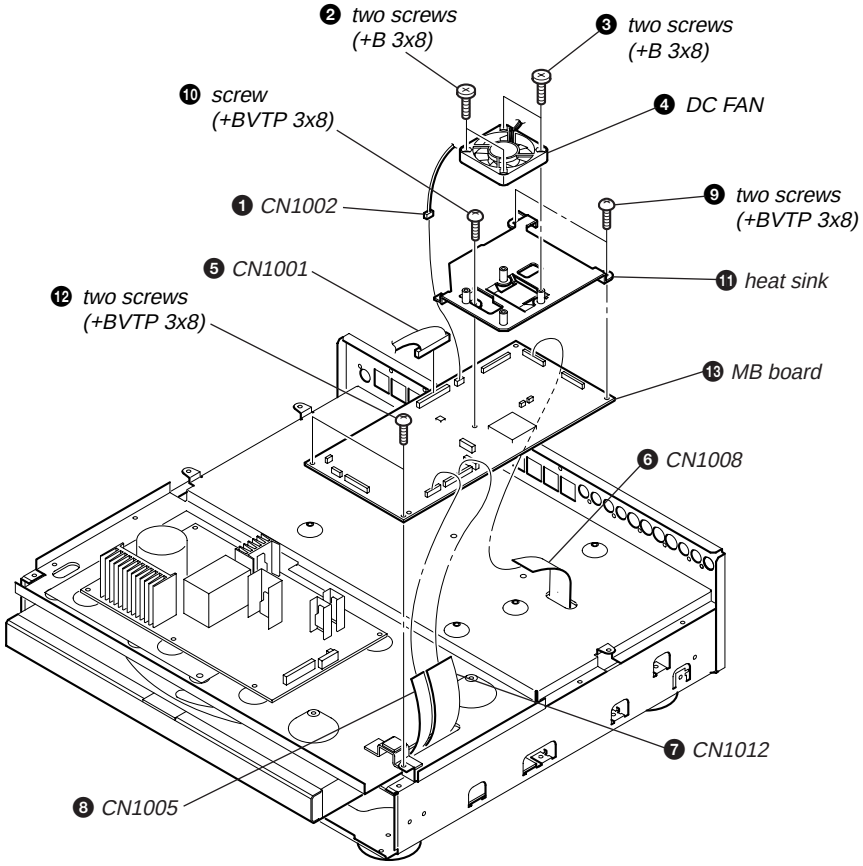
3-3. VIDEO I/O BOARD



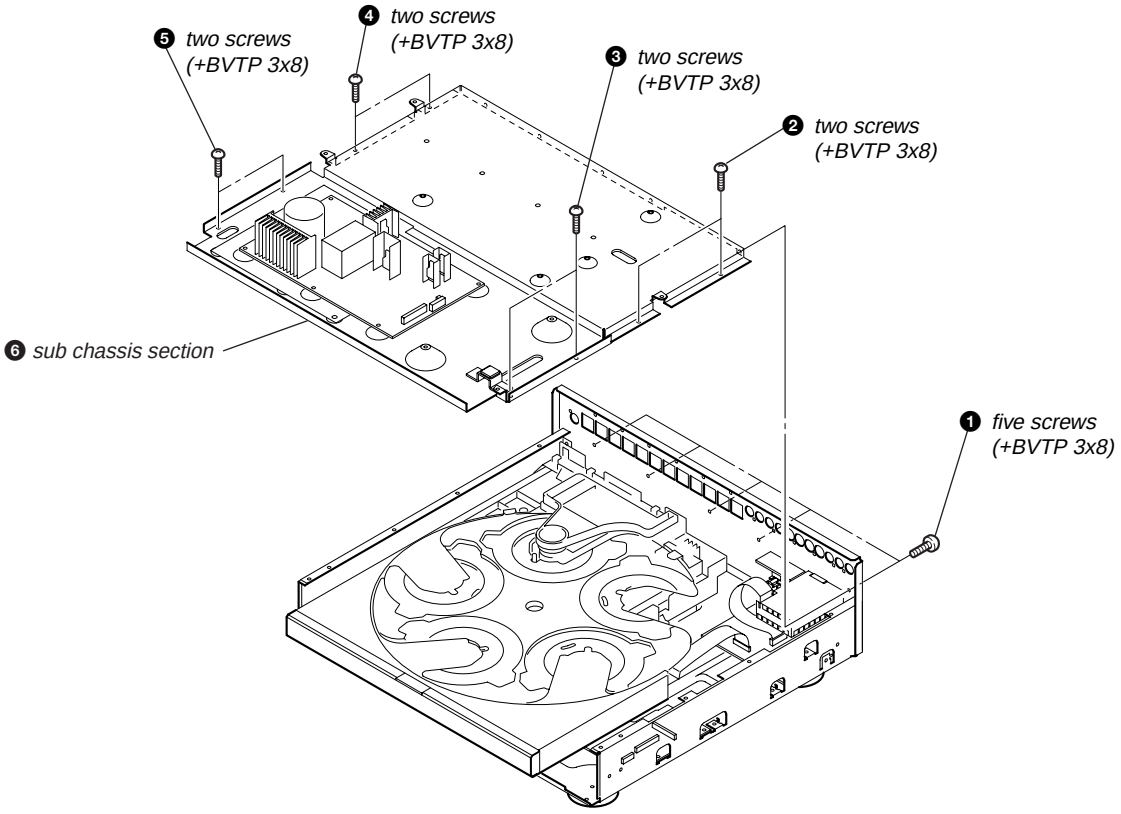
3-4. AMP BOARD



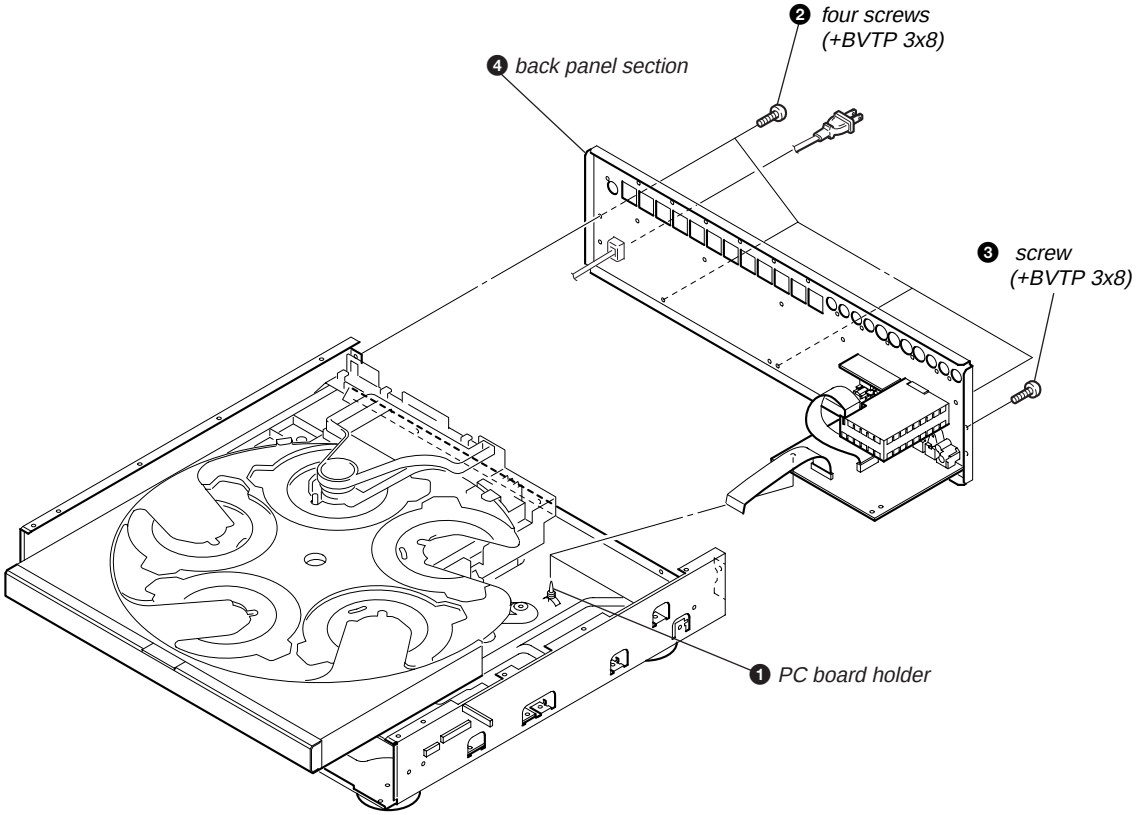
3-5. DC FAN (FAN901), MB BOARD



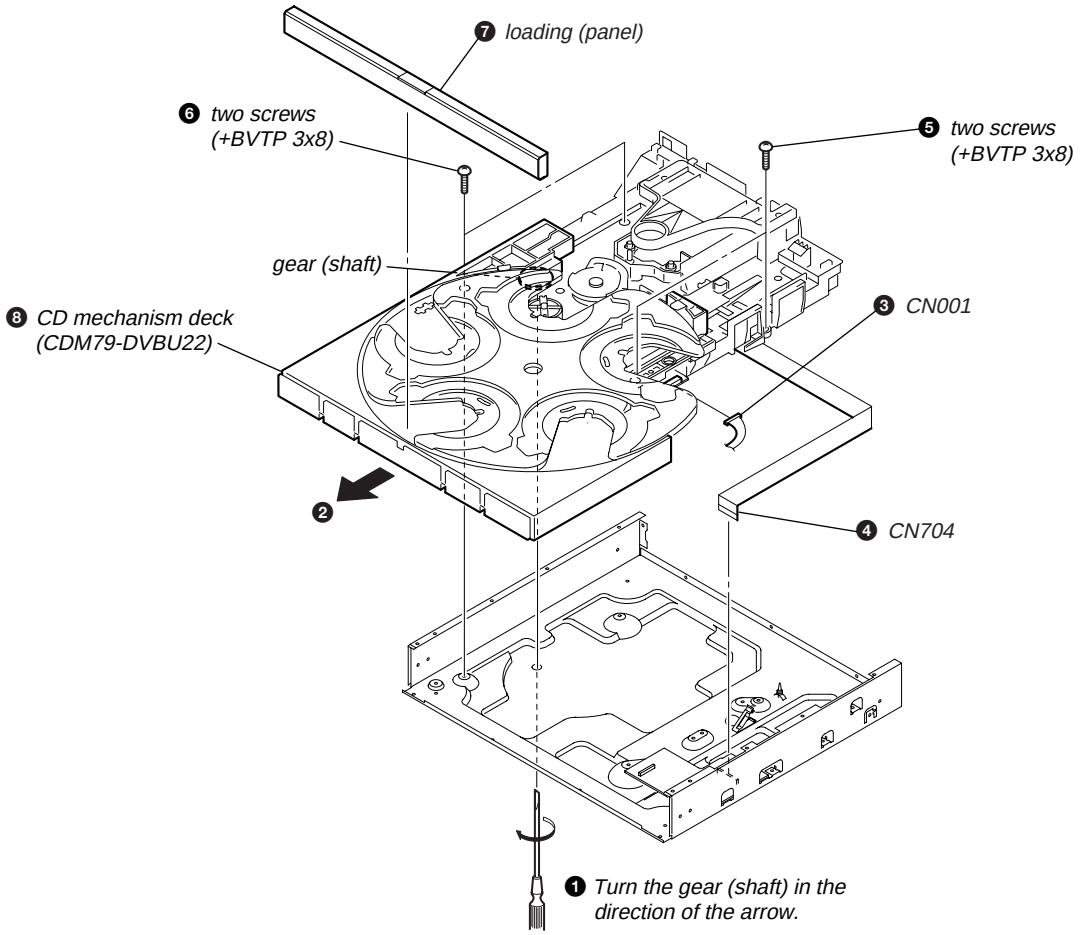
3-6. SUB CHASSIS SECTION



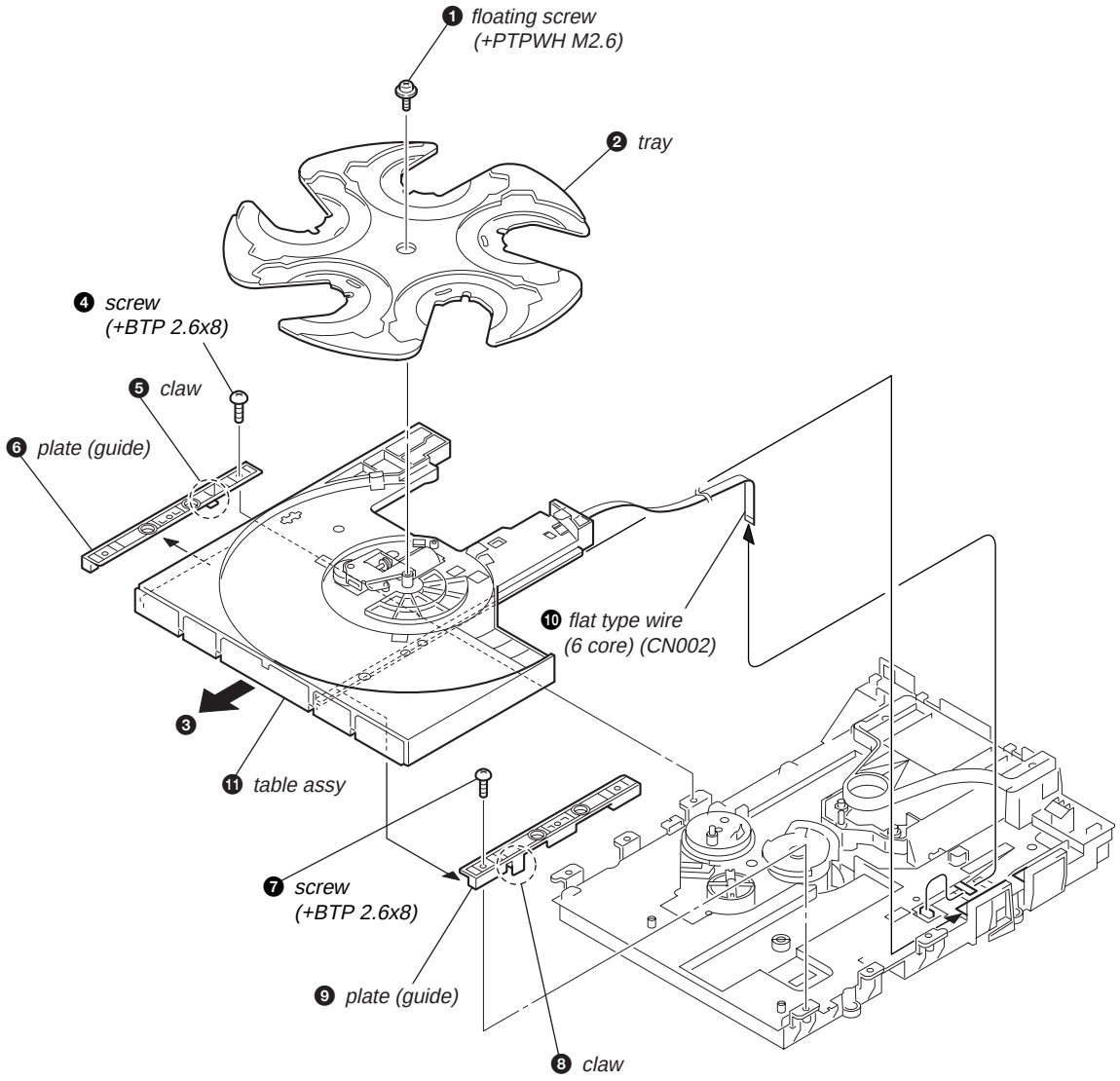
3-7. BACK PANEL SECTION



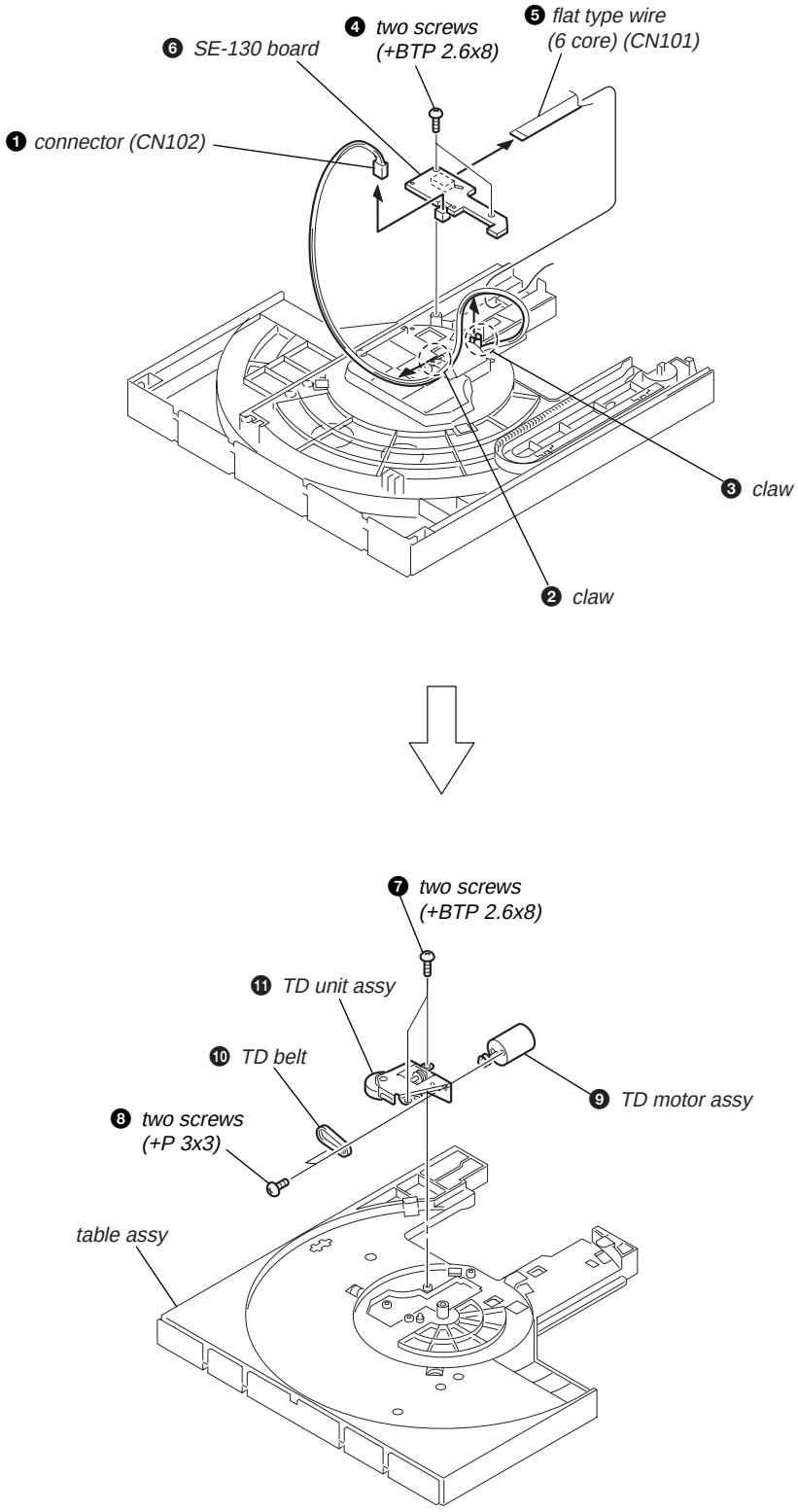
3-8. CD MECHANISM DECK



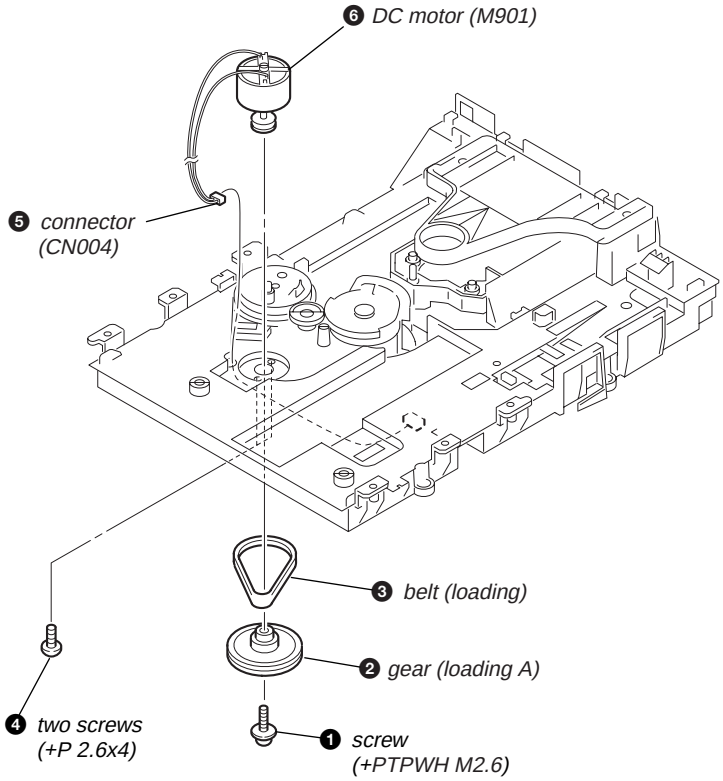
3-9. TABLE ASSY



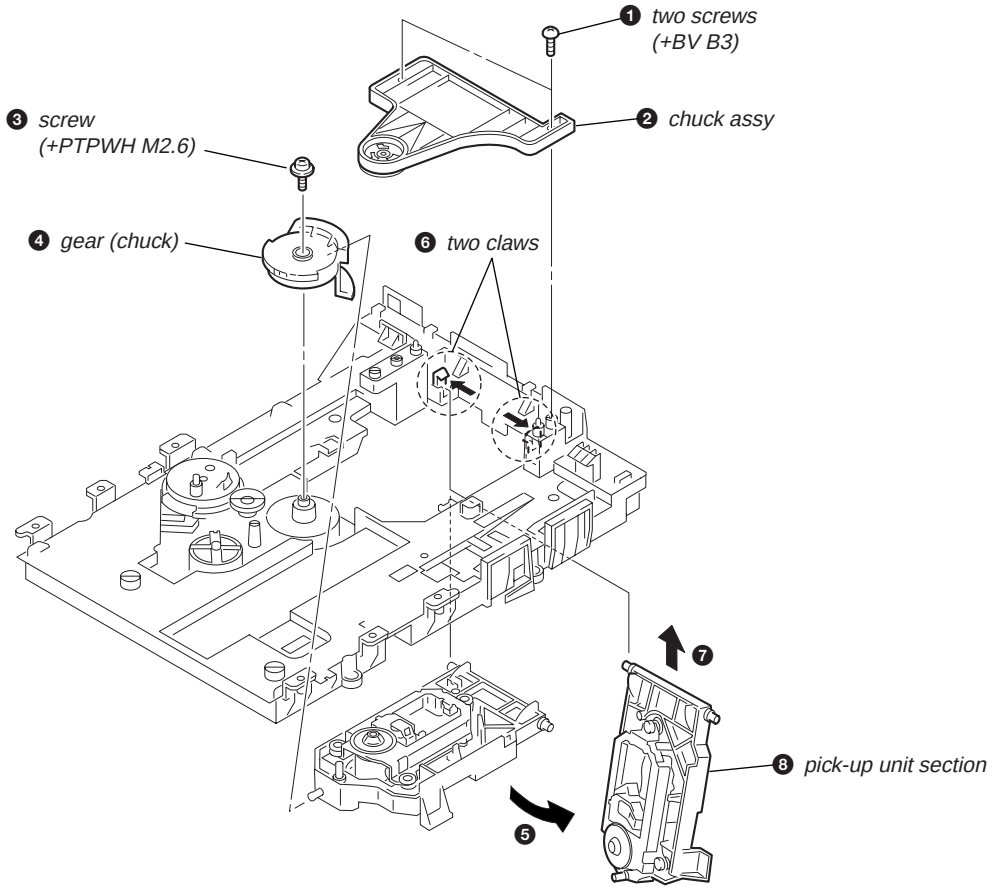
3-10. SE-130 BOARD



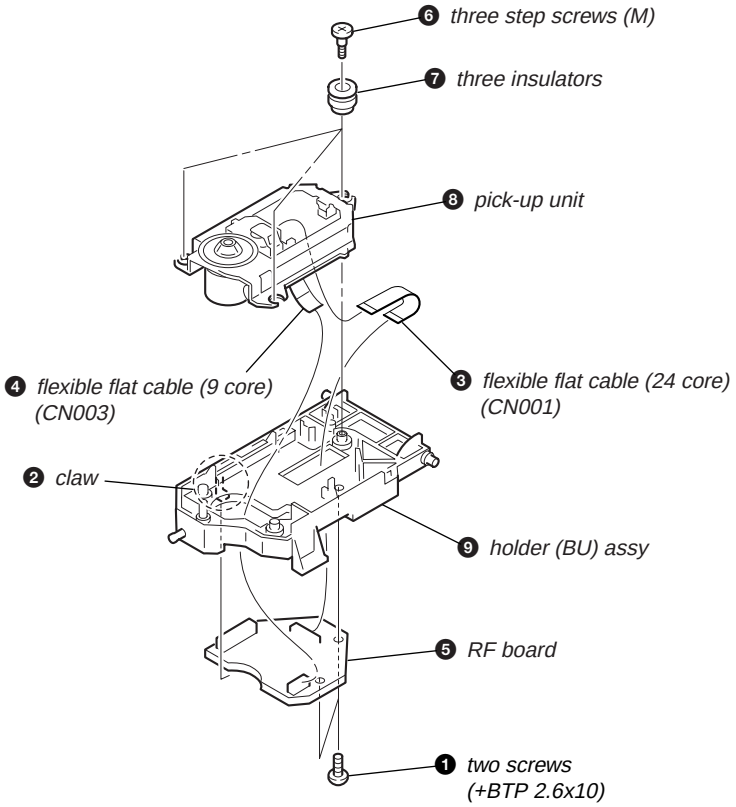
3-11. DC MOTOR (M901)



3-12. PICK-UP UNIT SECTION



3-13. RF BOARD


❻ three step screws (M)
❼ three insulators
❽ pick-up unit
❹ flexible flat cable (9 core) (CN003)
❸ flexible flat cable (24 core) (CN001)
❷ claw
❾ holder (BU) assy
❺ RF board
❶ two screws (+BTP 2.6x10)

SECTION 4
TEST MODE

[Transfer Mode]

1. Press the [POWER] button to turn the set on.
2. Press the buttons of [■] and [DISC4] simulaneously for five seconds.
3. The message “MECHA LOCK” displayed.
4. To exit from this mode, press the [POWER] button to turn the set off.

[Jog Volume Mode]

* Master Volume Check.

Procedure:

1. Press the [POWER] button to turn the set on.
2. To enter the test mode, press the three buttons [▮▮], [A.F.D] and [⏏] simultaneously.
3. The message “JOG 0” is displayed.
4. “JOG 0” value increases like +1, +2, +3 ... if rotating the [VOLUME] knob clockwise, or it decreases like -1, -2, -3, ... if rotating counter-clockwise.
5. To exit from this mode, press the [POWER] button to turn the set off.

[Key Check Mode]

* Keyboard check.

Procedure:

1. Press the [POWER] button to turn the set on.
2. To enter the test mode, press three buttons [▮▮] , [PRESET−] and [⏏] simultaneously.
3. In the key check mode, the fluorecent indicator displays “KEYNUM 0”. Each time a button (without the [POWER] button) is pressed, “KEYNUM 0” value increases. However, once a button is pressed, it is no longer taken into account.
4. To exit from this mode, press the [POWER] button to turn the set off.

[Display Test Mode and Version Display Mode]

* Fluorescent segments and LEDs are tested when this test is activated.

Procedure:

1. Press the [POWER] button to turn the set on.
2. To enter the test mode, press the three buttons [▮▮] , [DISPLAY] and [⏏] simultaneously.
3. All segments turn on and all LEDs turn on. ([MULTI CHANNEL DECODING] LED (blue), [DISC 1 to 5] LEDs (blue))
4. Press the [▶▶I] button and confirm the display and all LEDs turn on.
5. Press the [▶▶I] button and confirm the display and all LEDs turn off.
6. Press the [▶▶I] button and confirm all segments and all LEDs turn off.
7. Press the [▶▶I] button and the message “MCD_LED ON” is displayed and “MULTI CHANNEL DECODING” LED turn on.
8. Press the [▶▶I] button and the message “1L2L3L4L5L” is displayed and DISC 1 to 5 LED turn on dark.
9. Press the [▶▶I] button and the message “1H2L3-4-5” is displayed and DISC1 LED turn on, DISC2 LED turn on dark and DISC 3 to 5 LEDs turn off.
10. Press the [▶▶I] button and the message “1-2H3L4-5-” is displayed and DISC1 LED turn on dark, DISC2 LED turn on and DISC3 LED turn on dark, DISC4 or 5 LEDs turn off.
11. Press the [▶▶I] button and the message “1-2-3H4L5-” is displayed and DISC1 or 2 LEDs turn on dark, DISC3 LED turn on and DISC4 LED turn on dark, DISC5 LED turn off.
12. Press the [▶▶I] button and the message “1-2-3-4H5L” is displayed and DISC1 to 3 LEDs turn off, DISC4 LED turn on and DISC5 LED turn on dark.
13. Press the [▶▶I] button and the message “LED OFF” is displayed and all LEDs turn off.
14. Press the [▶▶I] button. All segments turn on and all LEDs turn on just the same as 3.
15. By pressing the [I◀◀] button and the message “AVD-C700ES” is displayed.
16. Press the [I◀◀] button and the message “Dest <000>” is displayed.
17. Press the [I◀◀] button and the message “STRµ #,##” is displayed.
18. Press the [I◀◀] button and the message “DVDµ #,##” is displayed.
19. To exit from this mode, press the [POWER] button to turn the set off.

[Disc Tray Lock]

The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Setting Procedure:

1. Press the [POWER] button to turn the set on.
2. Press two buttons of [■] and [⏏] simultaneously for five seconds.
3. The message “LOCKED” is displayed and the tray is locked.

Releasing Procedure:

1. Press two buttons of [■] and [⏏] simultaneously for five seconds again.
2. The message “UNLOCKED” is displayed and the tray is unlocked.

Note: When “LOCKED” is displayed, the tray lock is not released by turning power on/off with the [POWER] button.

[SHIPMENT Mode]

* The All Clear clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press the [POWER] button to turn the set on.
2. To enter the test mode, press the three buttons [MODE], [PRESET+] and [⏏] simultaneously.
3. The LCD displays the message “SHIP MODE”.
4. Press the [▷] button.
5. The LCD displays the message “FINISHED!” and the set is reset.
6. To exit from this mode, press the [POWER] button to turn the set off.

[DVD OSD TEST MODE]
[GENERAL DESCRIPTION]

The Test Mode allows you to make diagnosis and adjustment easily using the remote commander and monitor TV. The instructions, diagnostic results, etc. are given on the on-screen display (OSD).

[TEST DISC LIST]

Use the following test disc on test mode.
TDV-520CSO (DVD-SL) : PART No. J-2501-236-A
LUV-P01 (CD) : PART No. 4-999-032-01
TDV-540C (DVD-DL) : PART No. J-2501-235-A
Note: Do not use exiting test disc for DVD.

[STARTING TEST MODE]

1. Press the [POWER] button to turn the power on, and set the function to DVD.
2. While pressing the [■] and [⏏] button, turn the [VOLUME] knob clockwise to enter the test mode.
3. It displays "SERVICE IN" on the fluorescent indicator tube, and displays the Test Mode Menu on the monitor screen as follows. (At the bottom of the menu screen, the model name and revision number are displayed)

```
          Test Mode Menu

0. Syscon Diagnosis
1. Drive Auto Adjustment
2. Drive Manual Operation
3. Mecha Aging
4. Emergency History
5. Mecha Error History
6. Version Information
7. Video Level Adjustment
                    Exit: POWER Key
Model    :AVD-C700ES   UC
Revision :x.xx
```

4. To execute each function, select the desired menu and press its number on the remote commander (RM-CL700M).
5. To release from test mode, press the [POWER] button and turn the power off.

[OPERATING TEST MODE]

0. SYSCON DIAGNOSIS

The same contents as board detail check by serial interface can be checked from the remote commander operation.
On the Test Mode Menu screen, press [10/0] key on the remote commander, and the following Check Menu will be displayed.

```
     ### Syscon Diagnosis ###

           Check Menu
0. Quit
1. All
2. Version
3. EEPROM
4. GPIO
5. SD Bus
6. Video
7. Audio
```

0-0. Quit

Quit the Syscon Diagnosis and return to the Test Mode Menu.

0-1. All (All items continuous check)

This menu checks all diagnostic items continuously. Normally, all items are checked successively one after another automatically unless an error is found, but at a certain item that requires judgment through a visual check to the result, the following screen is displayed for the key entry.

• *Example display*

```
     ### Syscon Diagnosis ###

          Diag All Check
           No.2 Version

        2-3. ROM Check Sum
Check Sum = A658



Press NEXT Key to Continue
Press PREV Key to Repeat
```

For the ROM Check, the check sum calculated by the Syscon is output, and therefore you must compare it with the specified value for confirmation.
Following the message, press the [▶▶I] button to go to the next item, or press the [I◀◀] button to repeat the same operation again.
To quit the diagnosis and return to Check Menu screen, press the [RETURN] key on the remote commander to display Check Menu.

• Error occurred

If an error occurred, the diagnosis is suspended and error is displayed. Press the [RETURN] key on the remote commander to quit the diagnosis, or press the [I◀◀] button to repeat the same check where an error occurred, or press the [▶▶I] button to continue the check from the item next to faulty item.

General Description of Checking Method

Selecting 2 and subsequent items calls the submenu screen of each item. And selecting 2 and subsequent items executes respective menus and outputs the results.
For the contents of each submenu, see "Check Items List" as below.

Check Items List:

- 0-2. Version
  - 0-2-1. All
  - 0-2-2. Revision
  - 0-2-3. ROM Check Sum
  - 0-2-4. Model Type
  - 0-2-5. Region
- 0-3. EEPROM Check
  - 0-3-1. Sampling Check
  - 0-3-2. Detail Check
- 0-4. GP I/O Check
- 0-5. SD Bus Check
- 0-6. Video Check
- 0-8. ExVideo Encoder

0-2. Version

0-2-2. Revision
The revision number of ROM (IC1044) that the program for the DVD system processor (IC1041) is stored.

0-2-3. ROM Check Sum
The revision number of ROM (IC1044) that the program for the DVD system processor (IC1041) is stored.

0-2-4. Model Type
Model name is displayed. (AVD-C700ES)

0-2-5. Region
Model destination code is displayed. (2 digits number)

0-3. EEPROM Check

0-3-1. Sampling Check
EEPROM check at every 64 words.
It compares read data with write data of each address. When there are discrepancies between two data, it displays error.

0-3-2. Detail Check
EEPROM check at every 1 word.
It compares read data with write data of each address. When there are discrepancies between two data, it displays error.

0-4. GP I/O Check

Pull up/down setting check of the DVD system processor (IC1041) pin 150, 151 and 154 (for clock setting port).

0-5. SD Bus Check

SD bus data check between DVD decoder (IC1027) and D-RAM (IC1030).

0-6. Video Check

Output the color bars for video level adjustment.

0-8. ExVideo Encoder Check

1. DRIVE AUTO ADJUSTMENT

On the Test Mode Menu screen, press the [1] key on the remote commander, and the Adjustment Menu will be displayed.

```
   ## Drive Auto Adjustment ##
         Adjustment Menu

0. ALL
1. DVD-SL
2. CD
3. DVD-DL




                      Exit: RETURN
```

Normally, [10/0] is selected to adjust DVD (single layer), CD and DVD (dual layer) in this order. But, individual items can be adjusted for the case where adjustment is suspended due to an error. In this mode, the adjustment can be made easily through the operation following the message displayed on the screen.
The disc used for adjustment must be the one specified for adjustment.

1-0. ALL

Press the [10/0] key on the remote commander, and the servo set data in EEPROM will be initialized. Then, 1. DVD-SL disc, 2. CD disc and 3. DVD-DL disc are adjusted in this order.
Each time one disc was adjusted, it is ejected. Replace it with the specified disc following the message. You can finish the adjustment by pressing the [RETURN] button on the remote commander.

Note: During adjustment of each disc, the measurement for disc type judgment is made. As automatic adjustment does not judge the disc type unlike conventional models, take care not to insert wrong type discs. Also, do not give a shock during adjustment.

1-1. DVD-SL (single layer)

Press the [1] key on the remote commander and insert a DVD single layer disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

DVD Single Layer Disc Adjustment Steps:

1. Sled tilt reset
2. Disc check memory SL
3. Wait 300 msec
4. Set disc type SL
5. LD on
6. Spindle start
7. Wait 1 sec
8. Focus servo on 0
9. Auto track offset adjust
10. CLVA on
11. Wait 500 msec
12. Tracking on
13. Wait 1 sec
14. Sled on
15. Check CLV on
16. Auto LFO adjust
17. Auto focus offset adjust
18. Auto tilt position adjust
19. Auto focus gain adjust
20. Auto focus offset adjust
21. EQ boost adjust
22. Auto loop filter offset adjust
23. Auto track gain adjust

Search Check

24. 32 track jump forward
25. 32 track jump reverse
26. 500 track jump forward
27. 500 track jump reverse

28. All servo stop
29. EEP copy loop filter offset

1-2. CD

Press the [2] key on the remote commander and insert a CD disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

CD Adjustment Steps

1. Sled tilt rest
2. Disc check memory CD
3. Wait 500 msec
4. Set disc type CD
5. LD on
6. Spindle start
7. Wait 500 msec
8. Focus servo on 0
9. Auto track offset adjust
10. CLVA on
11. Wait 500 msec

12. Tracking on
13. (TC display start)
14. Wait 1 sec
15. Jitter display start
16. Sled ON
17. Check CLV on
18. Auto loop filter offset adjust
19. Auto focus offset adjust
20. Auto focus gain adjust
21. Auto focus offset adjust
22. EQ boost adjust
23. Auto LFO Adjust
24. Auto track gain adjust

Search Check

25. 32Tj forward
26. 32Tj reverse
27. 500Tj forward
28. 500Tj reverse

29. All servo stop

1-3. DVD-DL (dual layer)

Press the [3] key on the remote commander and insert a DVD dual layer disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

DVD Dual Layer Disc Adjustment Steps:

1. Sled tilt reset
2. Disc check memory DL
3. Wait 500 msec
4. Set disc type DL
5. LD on
6. Spindle start
7. Wait 1 sec

Layer 1 Adjust

8. Focus servo on 0
9. Auto track offset adjust
10. CLVA on
11. Wait 500 msec
12. Tracking on
13. Wait 500 msec
14. Sled on
15. Check CLV lock
16. Auto loop filter offset adjust, Auto focus adjust
17. Auto focus gain adjust
18. Auto focus offset adjust
19. EQ boost adjust
20. Auto loop filter offset adjust
21. Auto Track Gain Adjust

Search Check

22. 32 track jump forward
23. 32 track jump reverse
24. 500 track jump forward
25. 500 track jump reverse

Layer 0 Adjust

26. Focus jump (L1 → L0)
27. Auto track offset adjust L0
28. CLVA on
29. Wait 500 msec
30. Tracking on
31. Wait 500 msec
32. Sled on
33. Check CLV lock
34. Auto focus filter offset adjust
35. Auto Focus Adjust
36. Auto focus gain adjust
37. Auto focus offset adjust
38. EQ boost adjust
39. Auto Loop Filter Offset
40. Auto track gain adjust

Search Check

41. 32 track jump forward
42. 32 track jump reverse
43. 500 track jump forward
44. 500 track jump reverse

Layer Jump Check

45. Layer jump (L0 ? L1)
46. Layer jump (L1 ? L0)

47. All servo stop

2. DRIVE MANUAL OPERATION

Note: This mode is used for design, and not used in service fundamentally.

On the Test Mode Menu screen, press the [2] key on the remote commander, and the Operation Menu will be displayed. For the manual operation, each servo on/off control and adjustment can be executed manually.

```
   ## Drive Manual Operation ##
         Operation Menu
 1. Disc Type
 2. Servo Control
 3. Track/Layer Jump
 4. Non EEPROM Write Adjust
 5. EEPROM Write Adjust
 6. Memory Check
 7. Disc Check Memory
 8. Error Rate Display
 9. SACD Water Mark

                      Exit: RETURN
```

In using the manual operation menu, take care of the following points. These commands do not provide protection, thus requiring correct operation. The sector address or time code field is displayed when a disc is loaded.

Note:

1. Set correctly the disc type to be used on the Disc Type screen.
2. In case of an alarm, immediately press the [■] button to stop the servo operation, and press the [POWER] button to turn the power off.

Basic operation:

(controllable from front panel or remote commander)

[POWER]	: Power OFF (release the Test Mode)
[■]	: Servo stop
[⏏]	: Stop and eject/Loading
[RETURN]	: Return to Operation Menu or Test Mode Menu
[⏮], [⏭]	: Transition between sub modes of menu
[1] to [9], [10/0]	: Selection of menu items
Cursor [↓]/[↑]	: Increase/Decrease in manually adjusted value

2-1. Disc Type

```
            Disc Type

         Disc Type Select

  1. Disc Type Auto Check
  2. Set Disc Type DVD
  3. Set Disc Type CD
  4. Set Disc Type Hybrid




                        Exit: RETURN
```

2-1-1. Disc Type Auto Check

1) Press the [1] key on the remote commander to display the Disc Type Auto Check screen.
2) Insert a disc and press the [ENTER] key on the remote commander.
3) It judges the type of inserted disc automatically and displays the disc type and so on as below.

```
        Disc Type Auto Check

  Disc Type      xx
  Layer          xx
  Mirr Time      xx
  Mirr Count     xx
  FZC Count      xx
  PI Reference   xx
  PI Peak        xx

  ENTER.Execute

                        Exit: RETURN
```

Disc Type : CD, DVD or Hybrid (SACD)
Layer : SINGLE, DUAL or HYBRID
Mirr Time : Mirror time of between disc surface and record surface when disc type judgment. (hexadecimal number)
Mirr Count : The number of times which mirror counts between disc surface and record surface when disc type judging.
FZC Count : The number of times which focus zero cross points of each layer when lens down.
PI Reference : The average of PI reference voltage. (hexadecimal number)
PI Peak : PI peak level voltage. It performs only when disc type judgment is successful. (hexadecimal number)

2-1-2. Disc Type DVD

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

[1]: DVD single layer disc (12 cm)
[2]: DVD dual layer disc (0 layer, 12 cm)
[3]: DVD dual layer disc (1 layer, 12 cm)
[4]: DVD-RW disc (12 cm)
[5]: DVD single layer disc (8 cm)
[6]: DVD dual layer disc (0 layer, 8 cm)
[7]: DVD dual layer disc (1 layer, 8 cm)
[8]: DVD-RW disc (8 cm)

2-1-3. Disc Type CD

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

[1]: CD disc (normal speed, 12 cm)
[2]: CD disc (double speed, 12 cm)
[3]: CD disc (normal speed, 8 cm)
[4]: CD disc (double speed, 8 cm)
[5]: CD-RW disc (normal speed, 12 cm)
[6]: CD-RW disc (double speed, 12 cm)
[7]: CD-RW disc (normal speed, 8 cm)
[8]: CD-RW disc (double speed, 8 cm)

2-1-4. Disc Type Hybrid

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

[1]: SACD Hybrid disc (SACD layer, 12 cm)
[2]: SACD Hybrid disc (CD layer, normal speed, 12 cm)
[3]: SACD Hybrid disc (CD layer, double speed, 12 cm)
[4]: SACD Hybrid disc (SACD layer, 8 cm)
[5]: SACD Hybrid disc (CD layer, normal speed, 8 cm)
[6]: SACD Hybrid disc (CD layer, double speed, 8 cm)

2-2. Servo Control

Note: Be sure to perform the disc type setup before performing this item.

```
            Servo Control
  1.LD          off R.Sled FWD
  2.Focus       off L.Sled REV
  3.SPDL        off U.Sled Reset
  4.CLVA        off D.Sled Limit
  5.Trk.        off
  6.Sled        off
  7.Fcs.Srch    off


  0.All Servo Off

                        Exit: RETURN
```

On this screen, the servo on/off control necessary for replay is executed. Normally, turn on each servo from 1 sequentially and when CLVA is turned on, the usual trace mode becomes active. In the trace mode, DVD sector address or CD time code is displayed. This is not displayed where the spindle is not locked.
The spindle could run overriding the control if the spindle system is faulty or RF is not present. In such a case, do not operate CLVA.

[1] LD : Turn on/off the laser.
[2] Focus : Search the focus and turn on the focus.
[3] SPDL : Turn on/off the spindle.
[4] CLVA : Turn on/off normal servo of spindle servo.
[5] Trk. : Turn on/off the tracking servo.
[6] Sled : Turn on/off the sled servo.
[7] FCS. Srch : Turn on/off the focus search.
[10/0] : All servo off.
[R] Sled FWD (right cursor) : Move the sled forward.
[L] Sled REV (left cursor) : Move the sled reverse.
[U] Sled FWD (up cursor) : Reset the sled.
[D] Sled REV (down cursor) : Limit in the sled.

2-3. Track/Layer Jump

```
          Track/Layer Jump
1.  1Tj         FWD
2.  1Tj         REV
3.500Tj Fine    FWD
4.500Tj Fine    REV
5.10kTj Dirc    FWD
6.10kTj Dirc    REV
7.20kTj Dirc    FWD
8.20kTj Dirc    REV

0. All Servo Off

                        Exit: RETURN
```

On this screen, track jump, etc. can be performed. Only for the DVD dual layer disc, the focus jump and layer jump are displayed in the right field

[1] 1Tj FWD : 1 track jump forward.
[2] 1Tj REV : 1 track jump reverse.
[3] 500Tj FWD: 500 track jump (fine search)forward.
[4] 500Tj REV : 500 track jump (fine search) reverse.
[5] 10kTj FWD: 10k track jump (direct search) forward.
[6] 10kTj REV : 10k track jump (direct search) reverse.
[7] 20kTj FWD: 20k track jump (direct search) forward.
[8] 20kTj REV : 20k track jump (direct search) reverse.
[10/0] : All servo off.

2-4. Non EEPROM Write Adjust

```
      Non EEPROM Write Adjust

1. Focus Offset
2. Focus Gain
3. Trk.  Offset Coarse
4. Trk.  Offset Fine
5. Trk.  Gain
6. EQ    Boost

0.All Servo Off


                        Exit: RETURN
```

On this screen, each item can be adjusted manually. Select the desired number [1] to [10/0] from the remote commander, and current setting for the selected item will be displayed, then increase or decrease numeric value with the [↑] key or [↓] key. This value is stored in the EEPROM. If CLV has been applied, the jitter is displayed for reference for the adjustment.

[1] Focus Offset : Adjusts focus offset.
[2] Focus Gain : Adjusts focus gain.
[3] TRK. Offset : Adjusts tracking offset of the RF amp (IC001) side.
[4] TRK. Offset : Adjusts tracking offset of the DSP side.
[5] TRK. Gain : Adjusts track gain.
[6] EQ Boost : Adjusts amount of boost of equalizer.
[10/0] : All servo off.

2-5. EEPROM Write Adjust

```
       EEPROM Write Adjust

1. Focus  Offset
2. Focus  Gain
3. Trk.   Offset Coarse
4. ------
5. Trk.   Gain
6. EQ     Boost

0.All Servo Off


                        Exit: RETURN
```

On this screen, each item can be adjusted automatically. Select the desired number [1] to [10/0] from the remote commander, and selected item is adjusted automatically.

[1] Focus Offset : Adjusts focus offset.
[2] Focus Gain : Adjusts focus gain.
[3] TRK. Offset : Adjusts tracking offset of the RF amp (IC001) side.
[5] TRK. Gain : Adjusts track gain.
[6] EQ Boost : Adjusts amount of boost of equalizer.
[10/0] : All servo off.

2-6. Memory Check

Display images are shown as follows, and all two screens are able to switch by the [↑] key (UP) or [↓] key (DW).

```
EEPROM Data 1/2   CD  SL  L0  L1
Focus  Gain       xx  xx  xx  xx
Trk.   Gain       xx  xx  xx  xx
Focus  Offset     xx  xx  xx  xx
Trk.   Offset     xx  xx  xx  xx
EQ.    Boost      xx  xx  xx  xx
PI     Level      xx  xx  --  --
Fcs. Balance      --  xx  --  --
Jitter            xx  xx  xx  xx
Mirror Time       xx  xx  xx  --
FE Level          --  xx  --  --
Traverse Lv1.     --  xx  --  --
Next:DW Default:CLR    Exit:RET
```

```
EEPROM Data 2/2    CDRW DVDRW
Focus  Gain          xx    xx
Trk.   Gain          xx    xx
Focus  Offset        xx    xx
Trk.   Offset        xx    xx
EQ.    Boost         xx    xx




Next:UP Default:CLR        Exit:RET
```

On this screen, current servo adjusted data stored in the EEPROM are displayed. The adjusted data are initialized by pressing the [CLEAR] key, but be careful that they are not recoverable after initialization.
Before clearing the adjusted data, make a note of the set data. This screen will also appear if [0]-All is selected in the Drive Auto Adjustment. In this case, default setting cannot be made.

2-7. Disc Check Memory

```
        Disc Check Memory

 1. SL Disc check
 2. SL Disc check
 3. SL Disc check




                        Exit: RETURN
```

On this screen, measure the mirror time of chucked disc, and write to the EEPROM.

2-8. Error Rate Display

```
        Error Rate Display
            UC   CR   Address
PI1 Err  Now
         Max
         Avg
PI2 Err  Now
         Max
         Avg
PO  Err  Now
         Max
         Avg
Response Time Out,
 Start: ENTER          Stop: Return
```

On this screen, measure and display the error rate.

3. MECHA AGING

On the Test Mode Menu screen, selecting [3] executes the aging of the mechanism deck.

```
     ### Aging Test MENU ###
   ** Pls use over 40min. CD **
         Operation Menu

1. Open/Close Test




                        Exit: RETURN
```

1) On the Aging Test MENU screen, press the [1] key on the remote commander to display the Open/Close Test screen.
2) Insert discs and press the [ENTER] key on the remote commander.
3) It starts the aging.
   During aging, the disc number, operating status and repeat cycle are displayed. Aging can be aborted at any time by pressing the [■] key. After the operation is stopped, press the [■] key or [RETURN] key aging to return to the Aging Test MENU.

4. EMERGENCY HISTORY

On the Test Mode Menu screen, selecting [4] displays the information such as servo emergency history.
The history information from last 1 up to 10 can be scrolled with the [↑] key or [↓] key. Also, specific information can be displayed by directly entering that number with ten keys.

```
        ### EMG. History ###

  Laser Hours     CD   xxxxhxxm
                  DVD  xxxxhxxm

a.   bb xx xx xx  xx xx xx xx
     xx xx xx xx  xx xx xx xx

a.   bb xx xx xx  xx xx xx xx
     xx xx xx xx  xx xx xx xx

   Select:1-9        Scroll:UP/DOWN
  (1.Latest EMG.)      Exit: RETURN
```

xxxxhxxm : The laser on total hours. Data below minutes are omitted.
a. : Error number.
bb : Error code.
xx : Not used.

• Clearing History Information

Clearing laser hours:
Press the [DVD DISPLAY] and [CLEAR] keys in this order.
Then both CD and DVD data are cleared.

Clearing emergency history:
Press the [DVD TOP MENU] and [CLEAR] keys in this order.

Initializing set up data:
Press [DVD MENU] and [CLEAR] keys in this order.
The data have been initialized when “Set Up Initialized” message is displayed. The EMG. History screen will be restored soon.

- Code list of Emergency History

10: Communication to RF AMP (IC001) failed.
11: Each servo for focus, tracking, and spindle is unlocked.
12: Check sum error of EEPROM (IC1040).
14: Communication to servo DSP (IC1025) failed, or servo DSP (IC1025) is faulty.
15: Communication to DVD decoder (IC1027) failed, or DVD decoder (IC1027) is faulty.
20: Initialization of sled servo failed. It is not placed in the initial position.
23: Sled servo operation error.
24: Made a request to move the sled servo to wrong position.
30: Tracking balance adjustment error.
31: Tracking gain adjustment error.
33: Focus bias adjustment error.
34: Focus gain adjustment error.
35: Equalizer adjustment error.
40: Focus servo does not operate.
41: With a DVD dual layer disc, focus jump failed.
50: CLV (spindle) servo does not operate.
51: Spindle does not stop.
60: Made a request to seek nonexistent address.
61: Seek error of retry more than regulated times.
70: Control data could not be read.
80: Disc reading failed.

5. MECHA ERROR HISTORY

On the Test Mode Menu screen, selecting [5] displays the information of mechanism deck error history.
The history information from last 1 up to 8 can be scrolled with the [↑] key or [↓] key. Also, specific information can be displayed by directly entering that number with ten keys.

```
    ### Mecha Error History ###

  1. aa bb cc xx xx xx xx xx
  2. aa bb cc xx xx xx xx xx
  3. aa bb cc xx xx xx xx xx
  4. aa bb cc xx xx xx xx xx
  5. aa bb cc xx xx xx xx xx
  6. aa bb cc xx xx xx xx xx
  7. aa bb cc xx xx xx xx xx
  8. aa bb cc xx xx xx xx xx

                     Scroll:UP/DOWN
(1.Latest Err.)       Exit: RETURN
```

aa: Initialization is completed or not.
FF : Complete.
other number : Not complete.
bb: Operating status of mechanism deck at an error occurred.
(lod sq jcp)
00 : Initializing.
10 to 15 : Open operating.
16 to 19 : Kicking cause open failed.
1A to 1F : Open operating.
20 to 27 : Complete the open operation.
28 : No disc and complete the open operation.
29 to 2F : Complete the open operation.
30 to 3F : Close requesting.
40 to 4F : Open requesting.
50 to 5F : Close operating.
60 to 6F : Complete the chucking operation.
80 to 8F : Complete the release operation.
(BU is home position)
90 to 9F : BU down operating.
A0 to AF : Opening/closing the shutter. Or stationary state in open/close the shutter is enablement.
B0 to BF : BU up requesting.
C0 to CF : BU down requesting.
D0 to DF : BU upping.
E0 to EF : No disc checking in disc loading.
cc: Operating status of mechanism deck at an error occurred.
(lod oq jcp)
00 : Complete the operation.
10 to 1F : Open operating.
20 to 2F : Close operating.
30 to 3F : Release operating.
60 to 6F : Chucking operating.
70 to 7F : Kicking operating.
80 to 8F : Returning the BU to home position. (after kicking)

6. VERSION INFORMATION

On the Test Mode Menu screen, selecting [6] displays the ROM version and region code.
The parenthesized hexadecimal number in version field is checksum value of ROM.

```
    ## Version Information ##

IF con.   Ver.x. xx

SYScon.   Ver.x. xx  (xxxx)
      Model      AVD-C700ES
      Region     0x
      Config     xxxxxxxx

Front End Ver.x.xx


                       Exit: RETURN
```

IF con. : The version of system controller (IC1029) on the MAIN board.
SYScon. : The version of DVD system processor (IC1041).
Front End: The version of mechanism controller (IC1029).

7. VIDEO LEVEL ADJUSTMENT

On the Test Mode Menu screen, selecting [7] displays color bars for video level adjustment. During display of color bars, OSD disappears but the menu screen will be restored if pressing the [RETURN] key.

SECTION 5
ELECTRICAL ADJUSTMENTS

Note:

1. VIDEO board is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use DVD reference disc unless othermise indicated.
   [DVD reference disc]
   LUV-P01 (CD) : PART No. 4-999-032-01
   TDV-520CSO (DVD-SL) : PART No. J-2501-236-A
   TDV-540C (DVD-DL) : PART No. J-2501-235-A
   Note: Do not use exiting test disc for DVD.
3. Use an oscilloscope with more than 10 MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

AUTO SERVO ADJUSTMENT

After parts related to the servo circuit (RF amplifier (IC001), DSP (IC1025), motor driver (IC1024), EEPROM (IC1028) so on) are replaced, re-adjusting the servo circuit is necessary. Select "ALL" at "1. DRIVE AUTO ADJUSTMENT" (Refer to page 22 in TEST MODE) and adjust DVD-SL (single layer), CD and DVD-DL (dual layer).

ADJUSTMENT OF VIDEO SYSTEM

1. Video Level Adjustment (MB Board)

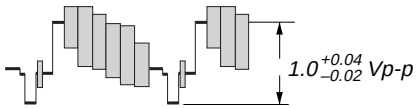
<Purpose>

This adjustment is made to satisfy the NTSC standard, and if not adjusted correctly, the brightness will be too large or small.

Mode	Video level adjustment in test mode
Signal	Color bars
Test point	MONITOR (VIDEO OUT) connector (75 Ω terminated)
Instrument	Oscilloscope
Adjusting element	RV1002
Specification	$1.0^{+0.04}_{-0.02}$ Vp-p

Adjusting method:

1) In the test mode initial menu "7" Video Level Adjustment, set so that color bars are ganerated.
2) Adjust the RV1002 to attain $1.0^{+0.04}_{-0.02}$ Vp-p.



2. Progressive Video Output Level Adjustment (MB Board)

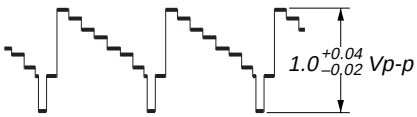
<Purpose>

This adjusts progressive video output level. If it is incorrect, correct brightness will not be attained when connected to, for instance, projector.

Mode	Video level adjustment in test mode
Signal	Color bars
Test point	MONITOR (S VIDEO OUT) (Y) connector (75 Ω terminated)
Instrument	Oscilloscope
Adjusting element	RV1001
Specification	$1.0^{+0.04}_{-0.02}$ Vp-p

Adjusting method:

1) In the test mode initial menu "7" Video Level Adjustment, set so that color bars are ganerated.
2) Adjust the RV1001 to attain $1.0^{+0.04}_{-0.02}$ Vp-p.



SECTION 6
DIAGRAMS

6-1. IC PIN FUNCTION DESCRIPTION

• IC1013 MB91354APMT-102 (INTERFACE CONTROL) (MB Board (2/12))

Pin No.	Pin Name	I/O	Pin Description
1	DSP-DO	I	DSP serial data signal input from audio digital signal processor IC
2	XDSP-RST	O	DSP reset signal output to audio digital signal processor IC
3	DSP-PM	O	DSP PM signal output to audio digital signal processor IC
4	XDSP-CS	O	DSP chip select signal output to audio digital signal processor IC
5	DSP-HACN	I	DSP acknowledge signal input from audio digital signal processor IC
6	DSP-BST	O	DSP BST signal output to EEPROM IC
7	DSP-GP9	I	DSP audio signal input from audio digital signal processor IC
8	DSP-BSTSEL	O	DSP BST select signal output to EEPROM IC
9	DSP-GP12	O	DSP GP data signal output to audio digital signal processor IC
10	NO-USE	—	Not used. (Fixed at L in this set.)
11	DIR-DI	O	DIR serial data signal output to digital audio interface IC
12	DIR-CLK	O	DIR serial clock signal output to digital audio interface IC
13	DIR-ZERO	I	DIR zero signal input from digital audio interface IC
14	DIR-ERR	I	DIR error signal input
15	DIR-CE	O	DIR chip enable signal output to digital audio interface IC
16	XDIR-STAT	I	DIR start signal input from digital audio interface IC
17	VSS	—	Ground pin
18	VCC	—	Power supply pin (+3.3 V)
19	SDI2-SEL	O	SACD select signal output
20	XDIR-MODE	O	DIR reset signal output to digital audio interface IC
21	XDIR-DO	I	DIR serial data signal input from digital audio interface IC
22	DIR-CKSEL1	O	DIR CK select signal output to digital audio interface IC
23	NO-USE	—	Not used. (Fixed at L in this set.)
24	DAMP-DATA	O	Serial data signal output for digital amp
25	DAMP-CLK	O	Serial clock signal output for digital amp
26	XDAMP-RST	O	Reset signal output for digital amp
27	XDAMP-NSMUTE	O	NS mute signal output for digital amp
28	DAMP-CS1	O	Chip select signal output 1 for digital amp
29	DAMP-CS2	O	Chip select signal output 2 for digital amp
30	DAMP-CS3	O	Chip select signal output 3 for digital amp
31	DAMP-CS4	O	Chip select signal output 4 for digital amp
32	XDAMP-EN	O	Reset signal output for driver
33	XDAMP-PROTECT	I	Protect signal input for driver
34	NO-USE	—	Not used. (Fixed at L in this set.)
35	VSS	—	Ground pin
36	VCC	—	Power supply pin (+3.3 V)
37	HP-SW	I	Headphone switch signal input
38	RELAY	O	Headphone/subwoofer mute signal output
39	NO-USE	—	Not used. (Fixed at L in this set.)
40	NO-USE	—	Not used. (Fixed at L in this set.)
41	ADC-RST	O	ADC reset signal output
42	NO-USE	—	Not used. (Fixed at L in this set.)
43	NO-USE	—	Not used. (Fixed at L in this set.)
44	NO-USE	—	Not used. (Fixed at L in this set.)
45	DAVS	—	Ground pin
46	DAVC	—	Power supply pin (+3.3 V)
47	V-CONT	O	Voltage control signal output
48	NO-USE	—	Not used. (Fixed at L in this set.)
49	NO-USE	—	Not used. (Open)
50	AREA1	I	Destination area 1 input
51	AREA2	I	Destination area 2 input

Pin No.	Pin Name	I/O	Pin Description
52	NO-USE	—	Not used. (Open)
53	MODEL	I	Model change select signal input
54	NO-USE	—	Not used. (Open)
55	KEY1	I	Function key signal input 1
56	KEY2	I	Function key signal input 2
57	KEY3	I	Function key signal input 3
58 to 61	NO-USE	—	Not used. (Open)
62	AVCC	—	Power supply pin (+3.3 V)
63	AVRH	—	Power supply pin (+3.3 V)
64	AVSS/AVRL	—	Ground pin
65	VSS	—	Ground pin
66	VCC	—	Power supply pin (+3.3 V)
67 to 70	NO-USE	—	Not used. (Fixed at L in this set.)
71	DF-SW	O	Digital filter SW signal output
72	DF-SYNC	O	Digital filter SYNC signal output
73	XDF-RST	O	Reset signal output to digital filter IC
74	NO-USE	—	Not used. (Fixed at L in this set.)
75	XEROM-CLK	O	Serial clock signal output to EEPROM IC
76	XEROM-DATA	I/O	Serial data signal input/output with EEPROM IC
77	NO-USE	—	Not used. (Fixed at L in this set.)
78	XZIVA-RST	O	Reset signal output to DVD system processor IC
79	VSS	—	Ground pin
80	VCC	—	Power supply pin (+3.3 V)
81	FLSH-PNO	O	Flash serial data write signal output Not used. (Fixed at L in this set.)
82	NO-USE	—	Not used. (Fixed at L in this set.)
83	FLSH-PN2	O	Flash serial data write signal output Not used. (Fixed at L in this set.)
84	GA-IDCCLK	O	Serial clock signal output
85	P-CONT1	O	Standby power control signal output
86	P-CONT2	O	DVD power control signal output
87	VR-CONT1	I	Volume register control signal input 1
88	VR-CONT2	I	Volume register control signal input 2
89, 90	NO-USE	—	Not used. (Fixed at L in this set.)
91	DSP-DI	O	DSP serial data signal output to audio digital signal processor
92	DSP-CLK	O	DSP serial clock signal output to audio digital signal processor
93	VSS	—	Ground pin
94	I2C-DATA	I/O	DVD serial data signal input/output
95	I2C-CLK	I/O	DVD serial clock signal input/output
96	VSS	—	Ground pin
97	VCC	—	Power supply pin (+3.3 V)
98	AC-ATOP	I	AC stop detect signal input
99	NO-USE	—	Not used. (Fixed at L in this set.)
100	XWAKE	I	Key/sircs detect signal input
101	CDM-TSENS	I	CDM slit edge interruption signal input
102 to 107	NO-USE	—	Not used. (Fixed at L in this set.)
108	FM-ON	O	AM/FM change signal output
109	TUNED	I	Tuned signal input
110	TUNE-DI	O	Tune data signal output
111	TUNE-CE	O	Tune chip enable signal output
112	TUNE-DO	I	Tune data signal input
113	TUNE-CLK	O	Tune clock signal output
114	VSS	—	Ground pin
115	VCC	—	Power supply pin (+3.3 V)
116	LED-STANDBY	O	Standby LED signal output

Pin No.	Pin Name	I/O	Pin Description
117	LED-MCD	O	Multch channel decode LED signal output
118	LED-DISC1	O	DISC1 LED signal output
119	LED-DISC2	O	DISC2 LED signal output
120	LED-DISC3	O	DISC3 LED signal output
121	LED-DISC4	O	DISC4 LED signal output
122	LED-DISC5	O	DISC5 LED signal output
123	LED-LCD	O	LCD back light LED signal output
124	NO-USE	—	Not used. (Fixed at L in this set.)
125	FLSH-SI	I	Flash serial data write signal input
126	FLSH-SO	O	Flash serial data write signal output
127	FLSH-CLK	O	Flash serial clock write signal output Not used. (Open)
128	NO-USE	—	Not used. (Fixed at L in this set.)
129	XLCD-CS	O	LCD chip select signal output
130	LCD-RS	O	LCD RS signal output
131	XLCD-RST	O	LCD reset signal output
132	LCD-DATA	O	LCD serial data signal output
133	LCD-CLK	O	LCD serial clock signal output
134	NMIX	I	H level fix signal input
135	XA-OUT	O	Not used. (Open)
136	VSS	—	Ground pin
137	XA-IN	I	Not used. (Fixed at L in this set.)
138	MD2	O	MD2 signal output
139, 140	MD1, 0	O	Not used. (Fixed at L in this set.)
141	X-IN	I	Ceramic vibrator signal input (12.5 MHz)
142	VCC	—	Power supply pin (+3.3 V)
143	X-OUT	O	Ceramic vibrator signal input (12.5 MHz)
144	XRESET	I	Reset signal input
145	VSS	—	Ground pin
146	VCC	—	Power supply pin (+3.3 V)
147	A-SEL2	O	Audio select signal output 2
148	A-SEL1	O	Audio select signal output 1
149	NO-USE	—	Not used. (Fixed at L in this set.)
150	V-MUTE	O	Video mute signal output
151	V-SEL1	O	Video select signal output 1
152	V-SEL2	O	Video select signal output 2
153	V-SEL3	O	Video select signal output 3
154	V-SEL4	O	Video select signal output 4
155	OPT-SEL2	O	Optical select signal output 1
156	OPT-SEL1	O	Optical select signal output 2
157	NO-USE	—	Not used. (Fixed at L in this set.)
158	CDM-P	O	CDM tray open signal output for single
159	CDM-N	O	CDM tray close signal output for single
160	XCDM-OUTSW	I	CDM tray open detect signal input for single
161	XCDM-INSW	I	CDM tray close detect signal input for single
162	VSS	—	Ground pin
163	VCC	—	Power supply pin (+3.3 V)
164	SIRCS	I	SIRCS signal input
165	CDM-CHUK	I	CDM chucking end detect (S1) signal input
166	CDM-TURN	I	CDM table rotation possible position detect (S2) signal input
167	NO-USE	—	Not used. (Fixed at L in this set.)
168	CDM-DSENS	I	CDM disc detect signal input for roulette
169	CDM-TRN	O	CDM tray right rotation signal output for roulette
170	CDM-TRP	O	CDM tray left rotation signal output for roulette

Pin No.	Pin Name	I/O	Pin Description
171	CDM-LP	O	CDM tray open signal output for roulette
172	CDM-LN	O	CDM tray close signal output for roulette
173	XCDM-OPEN	I	CDM tray open end detect (S0) signal input
174	NO-USE	—	Not used. (Open)
175	VSS	—	Ground pin
176	VCC	—	Power supply pin (+3.3 V)

• IC1011 CXD9718Q (AUDIO DIGITAL SIGNAL PROCESSOR) (MB Board (3/12))

Pin No.	Pin Name	I/O	Pin Description
1	VSS	—	Ground pin
2	XRST	I	System reset signal input from the system controller "L": reset
3	EXTIN	I	Master clock signal input Not used. (Connect to ground.)
4	LRCKI3	I	Sampling frequency selection signal input Not used. (Connect to ground.)
5	VDDI	—	Power supply pin (+2.5 V)
6	BCKI3	I	Sampling frequency selection signal input Not used. (Connect to ground.)
7	PLOCK	O	Internal PLL lock signal output Not used. (Open)
8	VSS	—	Ground pin
9	MCLK1	I	System clock input (13.5 MHz)
10	VDDI	—	Power supply pin (+2.5 V)
11	VSS	—	Ground pin
12	MCLK2	O	System clock output (13.5 MHz)
13	MS	I	Master/slave setting pin "L": internal clock, "H": external clock Fixed at "L" in this set
14	SCKOUT	O	Internal system clock output
15	LRCKI1	I	L/R sampling clock signal (44.1 kHz) input from the A/D converter and digital audio interface receiver
16	VDDE	—	Power supply pin (+3.3 V)
17	BCKI1	I	Bit clock signal (2.8224 MHz) input from the A/D converter and digital audio interface receiver
18	SDI1	I	Audio serial data input from the A/D converter
19	LRCKO	O	L/R sampling clock signal (44.1 kHz) output to the audio digital signal processor
20	BCKO	O	Bit clock signal (2.8224 MHz) output to the audio digital signal processor
21	VSS	—	Ground pin
22	KFSIO	I	Audio clock signal input from the digital audio interface receiver
23 to 26	SDO1 to SDO4	O	Audio serial data output to the audio digital signal processor
27	SPDIF	O	SPDIF signal output Not used. (Open)
28	LRCKI2	I	L/R sampling clock signal (44.1 kHz) input from the A/D converter and digital audio interface receiver
29	BCKI2	I	Bit clock signal (2.8224 MHz) input from the A/D converter and digital audio interface receiver
30	SDI2	I	Audio serial data input from the digital audio interface receiver
31	VSS	—	Ground pin
32	HACN	O	Acknowledge signal output to the system controller
33	HDIN	I	Serial data input from the system controller
34	HCLK	I	Serial data transfer clock signal input from the system controller
35	HDOUT	O	Serial data output to the system controller
36	HCS	I	Chip select input from the system controller
37	GP12	I/O	GP data signal input/output terminal
38	GP13	I/O	GP data signal input/output terminal Not used. (Open)
39	GP14	I/O	GP data signal input/output terminal Not used. (Open)
40	VDDI	—	Power supply pin (+2.5 V)
41	VSS	—	Ground pin
42	GP15	I/O	GP data signal input/output terminal Not used. (Open)
43	OE0	O	Output terminal of data input/output mask Not used. (Open)
44	CS0	O	Chip select signal output pin
45	WE0	O	Write enable signal output pin
46	VDDE	—	Power supply pin (+3.3 V)
47	WMD1	I	External memory wait mode setting pin Fixed at "H" in this set
48	VSS	—	Ground pin
49	WMD0	I	External memory wait mode setting pin Fixed at "H" in this set
50	PAGE2	O	External memory page selection signal output pin Not used. (Open)

Pin No.	Pin Name	I/O	Pin Description
51	VSS	—	Ground pin
52, 53	PAGE1, PAGE0	O	External memory page selection signal output Not used. (Open)
54	BOOT	I	Boot mode control signal input Not used. (Connect to ground.)
55	TST1	I	Test pin
56	BST	I	Boot strap signal input from the system controller
57	MOD1	I	Operation mode setting pin "L": enhanced mode, "H": normal mode Fixed at "H" in this set
58	MOD0	I	Operation mode setting pin "L": single chip mode, "H": can not use Fixed at "L" in this set
59	EXLOCK	I	PLL lock error signal and data error flag input from the digital audio interface receiver
60	VDDI	—	Power supply pin (+2.5 V)
61	VSS	—	Ground pin
62, 63	A17, A16	O	Address signal output Not used. (Open)
64 to 66	A15 to A13	O	Address signal output
67	GP10	—	Not used. (Open)
68	GP9	O	Audio signal output to the system controller
69	GP8	I	Channel status bit 1 input from the digital audio interface receiver
70	VDDI	—	Power supply pin (+2.5 V)
71	VSS	—	Ground pin
72 to 75	D15/GP7 to D12/GP4	I/O	Two-way data bus signal input/output
76	VDDE	—	Power supply pin (+3.3 V)
77 to 80	D11/GP3 to D8/GP0	I/O	Two-way data bus signal input/output
81	VSS	—	Ground pin
82 to 85	A9, A12 to A10	O	Address signal output
86	TDO	O	Simplicity emulation data output Not used. (Open)
87	TMS	I	Simplicity emulation data input start and end pin Not used. (Open)
88	XTRST	I	Simplicity emulation non-sync break signal input Not used. (Open)
89	TCK	I	Simplicity emulation clock signal input Not used. (Open)
90	TDI	I	Simplicity emulation data input Not used. (Open)
91	VSS	—	Ground pin
92 to 97	A8 to A3	O	Address signal output
98, 99	D7, D6	I/O	Two-way data bus input/output
100	VDDI	—	Power supply pin (+2.5 V)
101	VSS	—	Ground pin
102 to 105	D5 to D2	I/O	Two-way data bus input/output
106	VDDE	—	Power supply pin (+3.3 V)
107, 108	D1, D0	I/O	Two-way data bus input/output
109, 110	A2, A1	O	Address signal output
111	VSS	—	Ground pin
112	A0	O	Address signal output
113	PM	I	PLL initialize signal input from the system controller
114	SDI3	I	Audio serial data input
115	SDI4	I	Ground pin
116	SYNC	I	Sync/non-sync setting pin "L": sync, "H": non-sync Fixed at "H" in this set
117	TST2	—	Ground pin
118	GP11	—	Not used. (Open)
119	TST3	—	Ground pin
120	VDDI	—	Power supply pin (+2.5 V)

• IC1025 CXD3068Q (DIGITAL SIGNAL PROCESSOR, DIGITAL SERVO PROCESSOR) (MB Board (5/12))

Pin No.	Pin Name	I/O	Pin Description
1	DVDD0	—	Power supply pin (+3.3 V) (digital system)
2	XRST	I	Reset signal input from mechanism controller IC "L": reset
3	MUTE	I	Muting on/off control signal input from mechanism controller IC "H": muting on
4	DATA	I	Serial data input from mechanism controller IC
5	XLAT	I	Serial data latch pulse signal input from mechanism controller IC
6	CLOK	I	Serial data transfer clock signal input from mechanism controller IC
7	SENS	O	Internal status (SENSE) signal output to mechanism controller IC
8	SCLK	I	SENSE serial data reading clock signal input from mechanism controller IC
9	ATSK	I/O	Input/output for anti-shock Not used. (Fixed at L in this set.)
10	WFCK	O	Write frame clock signal output to DVD decoder IC
11	RFCK	O	RFCK signal output Not used. (Open)
12	XPCK	O	XPCK signal output Not used. (Open)
13	GFS	O	Guard frame sync signal output to mechanism controller IC
14	C2PO	O	C2 pointer signal output to DVD decoder IC
15	SCOR	O	Subcode sync (S0+S1) detection signal output to DVD decoder IC and mechanism controller IC
16	C4M	O	4.2336 MHz clock signal output Not used. (Open)
17	WDCK	O	Guard subcode sync (S0+S1) detection signal output to DVD decoder IC
18	DVSS0	—	Ground pin (digital system)
19	COUT	O	Numbers of track counted signal output to mechanism controller IC
20	MIRR	O	Mirror signal output to mechanism controller IC
21	DFCT	I/O	Defect signal input/output Not used.
22	FOK	O	Focus OK signal output to mechanism controller IC
23	PWMI	I	Spindle motor external control signal input Not used. (Fixed at L in this set.)
24	LOCK	O	GFS is sampled by 460 Hz "H" output when GFS is "H".
25	MDP	O	Spindle motor servo drive signal output to DVD decoder IC
26	SSTP	I	Detection signal input from limit in switch The optical pick-up is inner position when "H"
27	FSTO	O	2/3 divider output Not used. (Open)
28	DVDD1	—	Power supply pin (+3.3 V) (digital system)
29	SFDR	O	Sled servo drive PWM signal (+) output
30	SRDR	O	Sled servo drive PWM signal (–) output
31	TFDR	O	Tracking servo drive PWM signal (+) output
32	TRDR	O	Tracking servo drive PWM signal (–) output
33	FFDR	O	Focus servo drive PWM signal (+) output
34	FRDR	O	Focus servo drive PWM signal (–) output
35	DVSS1	—	Ground pin (digital system)
36	TEST	I	Input for the test
37	TES1	I	Input for the test
38	VC	I	Middle point voltage (+1.65 V) input
39	FE	I	Focus error signal input
40	SE	I	Sled error signal input
41	TE	I	Tracking error signal input
42	CE	I	Middle point servo analog signal input
43	RFDC	I	RF signal input
44	ADIO	O	Output for the test Not used. (Open)
45	AVSS0	—	Ground pin (analog system)
46	IGEN	I	Stabilized current input for operational amplifiers
47	AVDD0	—	Power supply pin (+3.3 V) (analog system)
48	ASYO	O	EFM full-swing output
49	ASYI	I	Asymmetry comparator voltage input
50	RFAC	I	EFM signal input

Pin No.	Pin Name	I/O	Pin Description
51	AVSS1	—	Ground pin (analog system)
52	CLTV	I	Internal VCO control voltage input
53	FILO	O	Filter output for master PLL
54	FILI	I	Filter input for master PLL
55	PCO	O	Charge pump output for master PLL
56	AVDD1	—	Power supply pin (+3.3 V) (analog system)
57	BIAS	I	Asymmetry circuit constant current input terminal
58	VCTL	I	VCO control voltage input for the wideband EFM PLL
59	V16M	O	VCO oscillation output for the wideband EFM PLL Not used. (Open)
60	VPCO	O	Charge pump output for the wideband EFM PLL
61	DVDD2	—	Power supply pin (+3.3 V) (digital system)
62	ASYE	I	Asymmetry circuit on/off control signal input "L": off, "H": on
63	MD2	I	Digital out on/off control signal input from mechanism controller IC "L": digital out off, "H": digital out on
64	DOUT	O	Digital audio signal output
65	LRCK	O	L/R sampling clock signal (44.1 kHz) output to DVD decoder IC
66	PCMD	O	Serial data output to DVD decoder IC
67	BCK	O	Bit clock signal (2.8224 MHz) output to DVD decoder IC
68	EMPH	O	"L" is output when playback disc is emphasis off "H" is output when playback disc is emphasis on Not used. (Open)
69	CD-DVD-XTSL	I	Input for the system clock frequency setting "L": 16.9344 MHz, "H": 33.8688 MHz
70	DVSS2	—	Ground pin (digital system)
71	XTAI	I	System clock input (33.8688 MHz)
72	XTAO	O	System clock output (33.8688 MHz) Not used. (Open)
73	SOUT	O	Serial data output Not used. (Open)
74	SOCK	O	Serial data reading clock signal output Not used. (Open)
75	XOLT	O	Serial data latch pulse signal output Not used. (Open)
76	SQSO	O	Subcode Q data output to mechanism controller IC
77	SQCK	I	Subcode Q data reading clock signal input from mechanism controller IC
78	SCSY	I	Input for resynchronism of guard subcode sync (S0+S1)
79	SBSO	O	Subcode serial data output to DVD decoder IC
80	EXCK	I	Subcode serial data reading clock signal input to DVD decoder IC

• IC1027 TMC57929PGF-RDP (DVD DECODER) (MB Board (6/12))

Pin No.	Pin Name	I/O	Pin Description
1, 2	D5, D6	I/O	Two-way data bus signal input from/output to mechanism control IC.
3	VSS	—	Ground pin
4	D7	I/O	Two-way data bus signal input from/output to mechanism control IC.
5	A0	I/O	Address signal input from/output to mechanism control IC.
6	VDD	—	Power supply pin (+3.3 V)
7	A1	I/O	Address signal input from/output to mechanism control IC.
8	VDD5V	—	Power supply pin (+5 V)
9 to 14	A2 to A7	I/O	Address signal input from/output to mechanism control IC.
15	VSS	—	Ground pin
16	XWAIT	O	Not used. (Open)
17	XRD	I	Read strobe signal input from mechanism control IC.
18	XWR	I	Write strobe signal input from mechanism control IC.
19	XCS	I	Chip select signal input from mechanism control IC.
20, 21	XINT0, XINT1	O	Interrupt signal output to mechanism control IC.
22	VDD	—	Power supply pin (+3.3 V)
23	XHRS	I	Not used. (Open)
24	HDB7	I/O	Stream data input from/output to DVD system processor IC.
25	VSS	—	Ground pin
26	HDB8	I/O	Error flag signal input from/output to DVD system processor IC.
27	HDB6	I/O	Stream data input from/output to DVD system processor IC.
28	VDDS	—	Power supply pin (+5 V)
29	HDB9	I/O	Not used. (Open)
30	HDB5	I/O	Stream data input from/output to DVD system processor IC.
31	HDBA	I/O	Not used. (Open)
32	HDB4	I/O	Stream data input from/output to DVD system processor IC.
33	VSS	—	Ground pin
34	HDBB	I/O	Not used. (Open)
35	HDB3	I/O	Stream data input from/output to DVD system processor IC.
36	VDD	—	Power supply pin (+3.3 V)
37	HDBC	I/O	Not used. (Open)
38	VDDS	—	Power supply pin (+5 V)
39	HDB2	I/O	Stream data input from/output to DVD system processor IC.
40	HDBD	I/O	Not used. (Open)
41	HDB1	I/O	Stream data input from/output to DVD system processor IC.
42	VSS	—	Ground pin
43	HDBE	I/O	Not used. (Open)
44	HDBO	I/O	Stream data input from/output to DVD system processor IC.
45	HDBF	I/O	Not used. (Open)
46	HDRQ	O	Serial data effect flag signal output to DVD system processor IC.
47	VDDS	—	Power supply pin (+5 V)
48	XHWR	I	Serial data transfer clock signal input from DVD system processor IC.
49	XHRD	I	Serial data transfer clock signal input from DVD system processor IC.
50	VDD	—	Power supply pin (+3.3 V)
51	REDY	O	Not used. (Fixed at H.)
52	VSS	—	Ground pin
53	XHAC	I	Serial data request signal input from DVD system processor IC. (DVD mode)
54	HINT	I/O	Not used. (Fixed at H.)
55	XS16	I	Not used. (Fixed at H.)
56	HA1	I	Not used. (Fixed at H.)
57	XPDI	I/O	Not used. (Fixed at H.)
58	VDDS	—	Power supply pin (+5 V)
59, 60	HA0, HA2	I	Not used. (Fixed at H.)

Pin No.	Pin Name	I/O	Pin Description
61	VSS	—	Ground pin
62, 63	HCS0, HCS1	I	Not used. (Open)
64	VDD	—	Power supply pin (+3.3 V)
65	DASP	I/O	Not used. (Fixed at H.)
66 to 69	MDB0 to MDB3	I/O	Two-way data bus signal input from/output to 16Mbit D-RAM IC.
70	VSS	—	Ground pin
71	MDB4	I/O	Two-way data bus signal input from/output to 16Mbit D-RAM IC.
72	VDD5V	—	Power supply pin (+5 V)
73 to 75	MDB5 to MDB7	I/O	Two-way data bus signal input from/output to 16Mbit D-RAM IC.
76	XMWR	O	Write enable signal output to 16Mbit D-RAM IC.
77	VDD	—	Power supply pin (+3.3 V)
78	XRAS	O	Row address strobe signal output to 16Mbit D-RAM IC.
79, 80	MA0, MA1	O	Address signal output to 16Mbit D-RAM IC.
81	VSS	—	Ground pin
82 to 87	MA2 to MA7	O	Address signal output to 16Mbit D-RAM IC.
88	VDD	—	Power supply pin (+3.3 V)
89	MA8	O	Address signal output to 16Mbit D-RAM IC.
90	VSS	—	Ground pin
91	MA9/mnt0	O	Address signal output to 16Mbit D-RAM IC.
92	MA10/mnt1	O	EEPROM ready signal output to mechanism control IC.
93	MA11/mnt2	O	Address signal output to 16Mbit D-RAM IC.
94	XMOE	O	Output enable signal output to 16Mbit D-RAM IC.
95	XCAS	O	Column address strobe signal output to 16Mbit D-RAM IC.
96, 97	MDB8, MDB9	I/O	Two-way data bus signal input from/output to 16Mbit D-RAM IC.
98	VSS	—	Ground pin
99	MDBA	I/O	Two-way data bus signal input from/output to 16Mbit D-RAM IC.
100	VDD	—	Power supply pin (+3.3 V)
101, 102	MDBB, MDBC	I/O	Two-way data bus signal input from/output to 16Mbit D-RAM IC.
103	VDD5V	—	Power supply pin (+5 V)
104 to 106	MDBD to MDBF	I/O	Two-way data bus signal input from/output to 16Mbit D-RAM IC.
107	GFS	O	Guard frame sync signal output to mechanism control IC.
108	VSS	—	Ground pin
109	APE0	O	Absolute phase error signal output
110	VDD	—	Power supply pin (+3.3 V)
111	DASY0	O	RF binary signal output
112	GNDA5	—	Ground pin
113, 114	ASF1, ASF2	O	Filter connected pin for selection the constant asymmetry compensation.
115	DASY1	I	Analog signal input after integrated from the RF binary signal.
116	RFDCC	I	Input pin for adjusting DC cut high-pass filter for RF signal.
117	RFIN	I	RF signal input
118, 119	VCCA5, VCCA4	—	Power supply pin (+3.3 V)
120	VCOR1	I	VCO oscillating range setting resistor connected
121	VCOIN	I	VCO input
122, 123	GNDA4, GNDA3	—	Ground pin
124	LPF5	O	Inverted signal output to operation amplifier from PLL loop filter.
125	VC1	I	Middle point voltage (+1.65 V) input
126, 127	LPF1, LPF2	I	Inverted signal input from operation amplifier from PLL loop filter.
128, 129	VCCA3, VCCA2	—	Power supply pin (+3.3 V)
130	PD0	O	Signal output to charge pump for phase comparator.
131	PDHVCC	O	Middle point voltage output to RF PLL.
132	FDO	O	Signal output to charge pump for frequency comparator.
133, 134	GNDA2, GNDA1	—	Ground pin

Pin No.	Pin Name	I/O	Pin Description
135	SPO	O	Spindle motor control signal output to focus/tracking coil driver, spindle/sled motor driver IC.
136	VC2	I	Middle point voltage (+1.65 V) input
137	MDIN2	I	Spindle motor servo drive signal input
138	MDIN1	I	MDP input
139	VCCA1	—	Power supply pin (+3.3 V)
140	CLVS	O	Control signal output to selection the spindle control filter constant at CLVS.
141	VSS	—	Ground pin
142	MDSOUT	O	Frequency error output pin of internal CLV circuit.
143	VDD	—	Power supply pin (+3.3 V)
144	MDPOUT	O	Phase error output pin of internal CLV circuit.
145	DFCT	I	Not used. (Connected to ground.)
146	GSCOR	I	Guard subcode sync (S0+S1) detection signal input from CD decoder, digital servo processor IC.
147	EXCK	O	Subcode serial data reading clock signal output to CD decoder, digital servo processor IC.
148	SBIN	I	Subcode serial data input from CD decoder, digital servo processor IC.
149	VSS	—	Ground pin
150	SCOR	I	Subcode sync (S0+S1) detection signal input from CD decoder, digital servo processor IC.
151	WFCK	I	Write frame clock signal input from CD decoder, digital servo processor IC.
152	VDD5V	—	Power supply pin (+5 V)
153	XRCI	I	Not used. (Fixed at L.)
154	VDDS	—	Power supply pin (+5 V)
155	C2PO	I	C2 pointer signal input from CD decoder, digital servo processor IC.
156	VDD	—	Power supply pin (+3.3 V)
157	DBCK	O	Not used. (Open)
158	BCLK	I	Bit clock signal (2.8224 MHz) input from CD decoder, digital servo processor IC.
159	DDAT	O	Not used. (Open)
160	MDAT	I	Signal data input from CD decoder, digital servo processor IC.
161	VSS	—	Ground pin
162	DLRC	O	Not used. (Open)
163	LRCK	I	L/R sampling clock signal (44.1 kHz) input from CD decoder, digital servo processor IC.
164	XRST	I	Reset signal input from mechanism control IC. (L: reset)
165	IFS0	I	Not used. (Connected to ground.)
166	IFS1	I	Not used. (Connected to VDD.)
167	XTAL	I	33.8688 MHz clock signal input from clock generator IC.
168	VSS	—	Ground pin
169	XTL2	O	33.8688 MHz clock signal output to clock generator IC.
170	XTL1	I	33.8688 MHz clock signal input from clock generator IC.
171	VDD	—	Power supply pin (+3.3 V)
172 to 176	D0 to D4	I/O	Two-way data bus signal input from/output to mechanism control IC.

• IC1036 CXD2753R (DSD DECODER) (MB Board (7/12))

Pin No.	Pin Name	I/O	Pin Description
1	VSCA0	—	Ground pin (for core)
2	XMSLAT	I	Serial data latch pulse signal input from the machanism controller
3	MSCK	I	Serial data transfer clock signal input from the mechanism controller
4	MSDATI	I	Serial data input from the mechanism controller
5	VDCA0	—	Power supply pin (+2.5 V) (for core)
6	MSDATO	O	Serial data output to the mechanism controller
7	MSREADY	O	Ready signal output to the mechanism controller “L”: ready
8	XMSDOE	O	Serial data output enable signal output pin Not used. (Open)
9	XRST	I	Reset signal input from the mechanism controller “L”: reset
10	SMUTE	I	Soft muting on/off control signal input from the mechanism controller “H”: muting on
11	MCKI	I	Master clock signal (33.8688 MHz) input
12	VSIOA0	—	Ground pin (for I/O)
13	EXCKO1	O	Master clock signal (33.8688 MHz) output to the digital audio processor
14	EXCKO2	O	External clock 2 signal output Not used. (Open)
15	LRCK	O	L/R sampling clock signal (44.1 kHz) output Not used. (Open)
16	F75HZ	O	Not used. (Open)
17	VDIOA0	—	Power supply pin (+3.3 V) (for I/O)
18 to 25	MNT0 to MNT7	O	Monitor signal output Not used. (Open)
26	TCK	I	Clock signal input from the DVD system processor
27	TDI	I	Serial data input from the DVD system processor
28	VSCA1	—	Ground pin (for core)
29	TDO	O	Serial data output to the DVD system processor
30	TMS	I	TMS signal input from the DVD system processor
31	TRST	I	Reset signal input from the DVD system processor “L”: reset
32 to 34	TEST1 to TEST3	I	Input for the test (normally: fixed at L)
35	VDCA1	—	Power supply pin (+2.5 V) (for core)
36	UBIT	O	Not used. (Open)
37	XBIT	O	Not used. (Open)
38 to 41	SUPDT0 to SUPDT3	O	Supplementary data output Not used. (Open)
42	VSIOA1	—	Ground pin (for I/O)
43, 44	SUPDT4, SUPDT5	O	Supplementary data output Not used. (Open)
45	VDIOA1	—	Power supply pin (+3.3 V) (for I/O)
46, 47	SUPDT6, SUPDT7	O	Supplementary data output Not used. (Open)
48	SUPEN	O	Supplementary data enable signal output Not used. (Open)
49	VSCA2	—	Ground pin (for core)
50	NC	O	Not used. (Open)
51, 52	TEST4, TEST5	I	Input for the test (normally: fixed at L)
53	NC	O	Not used. (Open)
54	VDCA2	—	Power supply pin (+2.5 V) (for core)
55, 56	DSADML, DSADMR	O	Not used. (Open)
57	BCKASL	I	Input/output selection signal input of bit clock signal (2.8224 MHz) for DSD data output “L”: input (slave), “H”: output (master) Fixed at H in this set
58	VSDSD0	—	Ground pin (for DSD data output)
59	BCKAI	I	Bit clock signal (2.8224 MHz) input for DSD data output Not used. (Open)
60	BCKAO	O	Bit clock signal (2.8224 MHz) output for DSD data output
61	PHREFI	I	Bit clock signal (2.8224 MHz) input for DSD data output Not used. (Open)
62	PHREFO	O	Bit clock signal (2.8224 MHz) output to the digital audio processor Not used. (Open)
63	ZDFL	O	Front L-ch Zero data flag detection signal output Not used. (Open)
64	DSAL	O	Front L-ch DSD data output to the digital audio processor
65	ZDFR	O	Front R-ch Zero data flag detection signal output Not used. (Open)
66	DSAR	O	Front R-ch DSD data output to the digital audio processor

Pin No.	Pin Name	I/O	Pin Description
67	VDDSD0	—	Power supply pin (+3.3 V) (for DSD data output)
68	ZDFC	O	Center zero data flag detection signal output Not used. (Open)
69	DSAC	O	Center DSD data output to the digital audio processor
70	ZDFLFE	O	Woofer zero data flag detection signal output Not used. (Open)
71	DSALFE	O	Woofer DSD data output to the digital audio processor
72	VSDSD1	—	Ground pin (for DSD data output)
73	ZDFLS	O	Rear L-ch zero data flag detection signal output Not used. (Open)
74	DSALS	O	Rear L-ch DSD data output to the digital audio processor
75	ZDFRS	O	Rear R-ch zero data flag detection signal output Not used. (Open)
76	DSARS	O	Rear R-ch DSD data output to the digital audio processor
77	VDDSD1	—	Power supply pin (+3.3 V) (for DSD data output)
78, 79	IOUT0, IOUT1	O	Data output for IEEE 1394 link chip interface Not used. (Open)
80	VSCB0	—	Ground pin (for core)
81, 82	IOUT2, IOUT3	O	Data output for IEEE 1394 link chip interface Not used. (Open)
83	VDCB0	—	Power supply pin (+2.5 V) (for core)
84, 85	IOUT4, IOUT5	O	Data output for IEEE 1394 link chip interface Not used. (Open)
86	VSIOB0	—	Ground pin (for I/O)
87	IANCO	O	Transmission information data output for IEEE 1394 link chip interface Not used. (Open)
88	IFULL	I	Data transmission hold request signal input for IEEE 1394 link chip interface Not used. (Connected to ground.)
89	IEMPTY	I	High speed transmission request signal input for IEEE 1394 link chip interface Not used. (Connected to ground.)
90	VDIOB0	—	Power supply pin (+3.3 V) (for I/O)
91	IFRM	O	Frame reference signal output for IEEE 1394 link chip interface Not used. (Open)
92	IOUTE	O	Enable signal output for IEEE 1394 link chip interface Not used. (Open)
93	IBCK	O	Data transmission clock signal output for IEEE 1394 link chip interface Not used. (Open)
94	VSCB1	—	Ground pin (for core)
95	IERR	I	Not used. (Fixed at H in this set.)
96	IANCI	I	Not used. (Fixed at L in this set.)
97	IPLAN	I	Not used. (Fixed at H in this set.)
98	IHOLD	O	Not used. (Open)
99	VDCB1	—	Power supply pin (+2.5 V) (for core)
100	IVLD	I	Not used. (Fixed at L in this set.)
101 to 105	IDIN0 to IDIN4	I	Not used. (Fixed at L in this set.)
106	VSIOB1	—	Ground pin (for I/O)
107 to 109	IDIN5 to IDIN7	I	Not used. (Fixed at L in this set.)
110	VDIOB1	—	Power supply pin (+3.3 V) (for I/O)
111 to 114	WAD0 to WAD3	I	External A/D data input for PSP physical disc mark detection Not used. (Open)
115	TESTI	I	Input for the test (normally: fixed at L)
116	VSCB2	—	Ground pin (for core)
117 to 120	WAD4 to WAD7	I	External A/D data input for PSP physical disc mark detection Not used. (Open)
121	VDCB2	—	Power supply pin (+2.5 V) (for core)
122	WRFD	I	Not used. (Fixed at L in this set.)
123	WCK	I	Operation clock signal input for PSP physical disc mark detection from the DVD decoder
124, 125	WAVDD0, WAVDD1	—	A/D power supply pin (+2.5 V) (for PSP physical disc mark detection)
126	WARFI	I	Analog RF signal input for PSP physical disc mark detection from the DVD/CD RF amplifier
127	WAVRB	I	A/D bottom reference pin for PSP physical disc mark detection
128, 129	WAVSS0, WAVSS1	—	A/D ground pin (for PSP physical disc mark detection)
130	VSIOA2	—	Ground pin (for I/O)

Pin No.	Pin Name	I/O	Pin Description
131 to 134	DQ7 to DQ4	I/O	Two-way data bus with the SD-RAM
135	VDIOA2	—	Power supply pin (+3.3 V) (for I/O)
136 to 139	DQ3 to DQ0	I/O	Two-way data bus with the SD-RAM
140	VSIOA3	—	Ground pin (for I/O)
141	DCLK	O	Clock signal output to the SD-RAM
142	DCKE	O	Clock enable signal output to the SD-RAM
143	XWE	O	Write enable signal output to the SD-RAM
144	XCAS	O	Column address strobe signal output to the SD-RAM
145	XRAS	O	Row address strobe signal output to the SD-RAM
146	VDIOA3	—	Power supply pin (+3.3 V) (for I/O)
147	NC	O	Not used. (Open)
148, 149	A11, A10	O	Address signal output to the SD-RAM
150	VSCA3	—	Ground pin (for core)
151, 152	A9, A8	O	Address signal output to the SD-RAM
153	VDCA3	—	Power supply pin (+2.5 V) (for core)
154 to 157	A7 to A4	O	Address signal output to the SD-RAM
158	VSIOA4	—	Ground pin (for I/O)
159 to 162	A3 to A0	O	Address signal output to the SD-RAM
163	VDIOA4	—	Power supply pin (+3.3 V) (for I/O)
164	XSRQ	O	Serial data request signal output to the DVD decoder
165	XSHD	I	Header flag signal input from the DVD decoder
166	SDCK	I	Serial data transfer clock signal input from the DVD decoder
167	XSAK	I	Serial data effect flag signal input from the DVD decoder
168	SDEF	I	Error flag signal input from the DVD decoder
169 to 176	SD0 to SD7	I	Stream data signal input from the DVD decoder

• IC1029 CXP973064-232R (MECHANISM CONTROL) (MB Board (8/12))

Pin No.	Pin Name	I/O	Pin Description
1	EEP_SO	O	Not used. (Open)
2	SDEN	O	Serial data enable signal output
3	DOCTRL/ISBTEST	O	Digital out ON/OFF control signal output
4	DSD_XRST	O	DSD reset signal output
5	EEP_SI	I/O	Data bus signal input from/output to EEPROM IC.
6	EEP_RDY	I	EEPROM ready signal input
7	FCS_JMP_1	O	Focus jump 1 signal output to focus/tracking coil driver, spindle/sled motor driver IC.
8	FCS_JMP_2	O	Focus jump 2 signal output to focus/tracking coil driver, spindle/sled motor driver IC.
9	SENS_CD	I	Internal status (SENSE) signal input
10	CD-DVD-XTSEL	O	CD spectrum signal output to CD decoder, digital servo processor IC.
11	NON	O	Not used. (Open)
12	XCS_DVD	O	Chip select signal output to DVD decoder IC.
13	VSS	—	Ground pin
14 to 21	D0 to D7	I/O	Two-way data bus signal input from/output to DVD decoder IC.
22, 23	INIT0_DVD, INIT1_DVD	I	Interrupt signal input from DVD decoder IC.
24	MSCK_SAMBA	O	Serial clock signal output
25	XRST_1882	O	Reset signal output to DVD decoder IC.
26	SCOR	I	Subcode sync (S0+S1) detection signal input from CD decoder, digital servo processor IC.
27	LAT_CD	O	Serial data latch pulse signal output to CD decoder, digital servo processor IC.
28	LDON	O	Laser diode ON/OFF control signal output
29	MIRR	I	Mirror signal input
30	COUT_CD	I	Numbers of track counted signal input
31	INLIM	I	Detection signal input from limit in switch. The optical pick-up is inner position when H.
32	CS_ZIVA	O	Chip select signal output to DVD system processor IC.
33	SI_ZIVA	I	Serial data input from DVD system processor IC.
34	SO_ZIVA	O	Serial data output to DVD system processor IC.
35	SCK_ZIVA	O	Serial data transfer clock signal output to DVD system processor IC.
36	DRVIRQ	O	Interrupt request signal output to DVD system processor IC.
37	DRVRDY	O	Ready signal output to DVD system processor IC.
38	RST	I	System reset signal input from DVD system processor IC.
39	VSS	—	Ground pin
40	XTAL	I	System clock input (20 MHz)
41	EXTAL	O	System clock output (20 MHz)
42	VDD	—	Power supply pin (+3.3 V)
43, 44	SLED_A, SLED_B	O	Sled motor drive signal output to focus/tracking coil driver, spindle/sled motor driver IC.
45	SCK_DSD	O	Clock signal output to DVD decoder IC.
46	SDOUT_DSD	O	Serial data output to DSD decoder IC
47	SDIN_DSD	I	Serial data input from DSD decoder IC
48	READY_DSD	I	Ready signal output to DSD decoder IC
49	DATA_CD	O	Serial data output to CD decoder, digital servo processor IC.
50	CLOK_CD	O	Serial data transfer clock signal output to CD decoder, digital servo processor IC.
51	XMSLAT	O	Serial data latch pulse signal output to DSD decoder IC
52	SQSO	I	Subcode Q data input from DVD decoder IC.
53	MUTE_DSD	O	Soft muting on/off control signal output to DSD decoder IC
54	SQCK	O	Subcode Q data reading clock signal output to DVD decoder IC.
55	VSS	—	Ground pin
56, 57	TRAY IN, TRAY OUT	I	Not used. (Fixed at L in this set.)
58	GFS_DVD	I	Guard frame sync signal input from DVD decoder IC.
59	MUTE_CD	O	Muting ON/OFF control signal output to CD decoder, digital servo processor IC.

Pin No.	Pin Name	I/O	Pin Description
60	MUTE_2D	O	Muting ON/OFF control signal output to focus/tracking coil driver, spindle/sled motor driver IC.
61	SLED	I	Sled motor servo drive PWM signal input from CD decoder, digital servo processor IC.
62	FG	I	Spindle motor control signal input
63	SP_ON	O	Muting ON/OFF control signal output to focus/tracking coil driver, spindle/sled motor driver IC.
64	JIT	I	Jitter signal input
65	TE	I	Tracking error signal input
66	PI	I	Pull in signal input
67	FE	I	Focus error signal input
68	AVSS	—	Ground pin
69	AVREF	I	Reference voltage input (for A/D converter)
70	AVDD	—	Power supply pin (+3.3 V) (for A/D converter)
71	GFS_CD	I	Guard frame sync signal input from CD decoder, digital servo processor IC.
72	SCLK_CD	O	SENSE serial data reading clock signal output to CD decoder, digital servo processor IC.
73	TSD-M	O	Thermal shut down signal output to focus/tracking coil driver, spindle/sled motor driver IC.
74	FOK_CD	I	Focus OK signal input from CD decoder, digital servo processor IC.
75	LOCK_CD	I	GFS is sampled by 460 Hz. (H input when GFS is H)
76	LDSEL	O	Laser diode selection signal output
77	SACD/$\overline{\text{DVD}}$	O	SACD/DVD selection signal output
78	I2C_SIO	I/O	Communication data bus signal input/output
79	I2C_SCL	I/O	Communication data reading clock signal input/output
80	RXD	I	Serial data input
81	TXD	O	Serial data output
82	SDCLK_RF	O	Serial data transfer clock signal output
83	SDATA_RF	I/O	Two-way data bus signal input/output
84	XWR	O	Write strobe signal output to DVD decoder IC.
85	XRD	O	Read strobe signal output to DVD decoder IC.
86	(PWE)	—	Not used (Fixed at H)
87	VDD	—	Power supply pin (+3.3 V)
88	VSS	—	Ground pin
89 to 96	A0 to A7	O	Address signal output to DVD decoder IC.
97	A8	O	Power save control signal output to focus/tracking coil driver, spindle/sled motor driver IC.
98	XDRST	O	Reset signal output to CD decoder, digital servo processor IC.
99	EEP_CS	O	Write protect signal output to EEPROM IC.
100	EEP_CLK	O	Clock signal output to EEPROM IC.

• IC1041 ZIVA-5P-C2F (DVD SYSTEM PROCESSOR) (MB Board (9/12))

Pin No.	Pin Name	I/O	Pin Description
1	VDDP	—	Power supply pin (+3.3 V) (I/O signal)
2	HA1	I/O	Address bus signal input/output
3 to 11	HAD15 to HAD7	I/O	Data bus (address signal multiplexed) signal input/output
12	VDDP	—	Power supply pin (+3.3 V) (I/O signal)
13	GNDP	—	Ground pin (I/O signal)
14 to 19	HAD6 to HAD1	I/O	Data bus (address signal multiplexed) signal input/output
20	VDDP	—	Power supply pin (+3.3 V) (I/O signal)
21	GNDP	—	Ground pin (I/O signal)
22	HAD0	I/O	Data bus (address signal multiplexed) signal input/output
23	HDTACK	I/O	Acknowledge signal input/output for host data transfer
24	HIRQ0	I	Interrupt signal input
25	WEH.UDS	I/O	Host upper data strobe signal input/output
26	WEL.LDS	I/O	Host lower data strobe signal output
27	HREAD	I/O	Read/write strobe signal input/output
28	GPIO0(1)/JIGMODE	I/O	Jig detection port
29	GND	—	Ground pin (inside core)
30	VDD	—	Power supply pin (+1.8 V) (inside core)
31	GND25	—	Ground pin (SDRAM I/O signal)
32	VDD25	—	Power supply pin (+3.3 V) (SDRAM I/O signal)
33 to 42	MA9 to MA0	O	SDRAM address bus signal output to 128 Mbit SD-RAM IC.
43	GND25	—	Ground pin (SDRAM I/O signal)
44	VDD25	—	Power supply pin (+3.3 V) (SDRAM I/O signal)
45, 46	MA10, MA11	O	SDRAM address bus signal output to 128 Mbit SD-RAM IC.
47, 48	BA1, BA0	O	SDRAM bank select signal output to 128 Mbit SD-RAM IC.
49	MCS0	O	SDRAM chip select signal output to 128 Mbit SD-RAM IC.
50	MCS1	O	Not used. (Open)
51	MRAS	O	SDRAM row address strobe signal output to 128 Mbit SD-RAM IC.
52	MCAS	O	SDRAM column address strobe signal output to 128 Mbit SD-RAM IC.
53	MWE	O	SDRAM write enable signal output to 128 Mbit SD-RAM IC. (H: read, L: write)
54	GND25	—	Ground pin (SDRAM I/O signal)
55	VDD25	—	Power supply pin (+3.3 V) (SDRAM I/O signal)
56	MCLK	O	SDRAM clock signal output to 128 Mbit SD-RAM IC.
57 to 60	MD0 to MD3	I/O	SDRAM data input from/output to 128 Mbit SD-RAM IC.
61	GND25	—	Ground pin (SDRAM I/O signal)
62	MDQM0	O	Byte read/write mask signal output to 128 Mbit SD-RAM IC.
63	VDD25	—	Power supply pin (+3.3 V) (SDRAM I/O signal)
64 to 71	MD4 to MD11	I/O	SDRAM data input from/output to 128 Mbit SD-RAM IC.
72	GND25	—	Ground pin (SDRAM I/O signal)
73	MDQM1	O	Byte read/write mask signal output to 128 Mbit SD-RAM IC.
74	VDD25	—	Power supply pin (+3.3 V) (SDRAM I/O signal)
75 to 78	MD12 to MD15	I/O	SDRAM data input from/output to 128 Mbit SD-RAM IC.
79	GND	—	Ground pin (inside core)
80	VDD	—	Power supply pin (+1.8 V) (inside core)
81 to 84	MD16 to MD19	I/O	SDRAM data input from/output to 128 Mbit SD-RAM IC.
85	GND25	—	Ground pin (SDRAM I/O signal)
86	MDQM2	O	Byte read/write mask signal output to 128 Mbit SD-RAM IC.
87	VDD25	—	Power supply pin (+3.3 V) (SDRAM I/O signal)
88 to 95	MD20 to MD27	I/O	SDRAM data input from/output to 128 Mbit SD-RAM IC.
96	GND25	—	Ground pin (SDRAM I/O signal)
97	MDQM3	O	Byte read/write mask signal output to 128 Mbit SD-RAM IC.
98	VDD25	—	Power supply pin (+3.3 V) (SDRAM I/O signal)
99 to 102	MD28 to MD31	I/O	SDRAM data input from/output to 128 Mbit SD-RAM IC.

Pin No.	Pin Name	I/O	Pin Description
103	GND25	—	Ground pin (SDRAM I/O signal)
104	VDD25	—	Power supply pin (+3.3 V) (SDRAM I/O signal)
105	VCLK	I/O	System clock signal input/output
106	VDATA7	O	Video data 7 signal output
107	VDATA6	O	Video data 6 signal output
108	VDATA5	O	Video data 5 signal output
109	VDATA4	O	Video data 4 signal output
110	VDATA3	O	Video data 3 signal output
111	VDDP	—	Power supply pin (+3.3 V) (I/O signal)
112	GNDP	—	Ground pin (I/O signal)
113	VDATA2	O	Video data 2 signal output
114	VDATA1	O	Video data 1 signal output
115	VDATA0	O	Video data 0 signal output
116	HIRQ2	I	Busy signal input from EEPROM IC.
117	VDAC_4B	—	Video DAC bias bit 4 (Connect to ground)
118	VDAC_VDD4	—	Power supply pin (+3.3 V) (Video DAC 4)
119	VDAC_4	O	VDAC output 4
120	VDAC_3B	—	Video DAC bias bit 3 (Connect to ground)
121	VDAC_VDD3	—	Power supply pin (+3.3 V) (Video DAC 3)
122	VDAC_3	O	VDAC output 3
123	VDAC_2B	—	Video DAC bias bit 2 (Connect to ground)
124	VDAC_VDD2	—	Power supply pin (+3.3 V) (Video DAC 2)
125	VDAC_2	O	VDAC output 2
126	VDAC_1B	—	Video DAC bias bit 1 (Connect to ground)
127	VDAC_VDD1	—	Power supply pin (+3.3 V) (Video DAC 1)
128	VDAC_1	O	VDAC output 1
129	VDAC_0B	—	Video DAC bias bit 0 (Connect to ground)
130	VDAC_VDD0	—	Power supply pin (+3.3 V) (Video DAC 0)
131	VDAC_0	O	VDAC output 0
132	VDAC_DVSS	—	Ground pin (Video DAC digital system)
133	VDAC_DVDD	—	Power supply pin (+3.3 V) (Video DAC digital system)
134	VDAC_REFVDD	—	Power supply pin (+3.3 V) (Video DAC reference)
135	VDAC_REF	I	Reference voltage input (for Video DAC)
136	VDAC_REFVSS	—	Ground pin (Video DAC reference)
137	XVSS	—	Ground pin (crystal oscillator)
138	XOUT	O	Not used. (Open)
139	XIN	I	Crystal oscillation signal input
140	XVDD	—	Power supply pin (+3.3 V) (crystal oscillator)
141	AVSS2	—	Ground pin (analog PLL)
142, 143	AVDD2, AVDD1	—	Power supply pin (+3.3 V) (analog PLL)
144	AVSS1	—	Ground pin (analog PLL)
145	VDD	—	Power supply pin (+1.8 V) (inside core)
146	GND	—	Ground pin (inside core)
147	XCK	O	Audio system clock signal output Not used. (Open)
148	LRCK	O	LRCK signal output Not used. (Open)
149	BCK	O	BCK signal output Not used. (Open)
150	GA_RST	O	GA reset signal output
151	GPIO4 (2)	O	Video reset signal output to video encoder IC
152	VDDP	—	Power supply pin (+3.3 V) (I/O signal)
153	GNDP	—	Ground pin (I/O signal)
154	VS	O	S1 signal output
155	V-SEL2	O	Fixed at L in this set.
156	IEC958	O	S/PDIF signal output

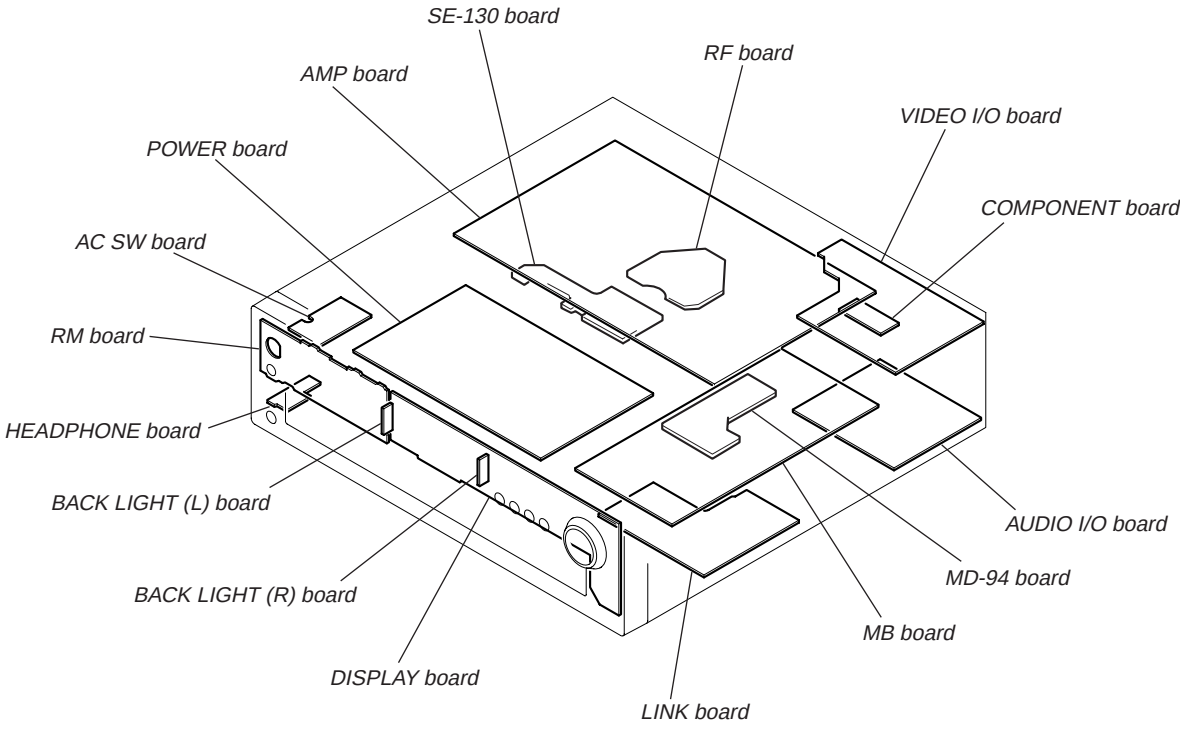
Pin No.	Pin Name	I/O	Pin Description
157	GPIO4 (8)	I	Not used. (Open)
158	GPIO4 (7)	I	Not used. (Open)
159	GPIO4 (6)	I	Not used. (Open)
160	I2C_CL	I/O	I2C clock bus signal input from/output to mechanism control IC.
161	I2C_DA	I/O	I2C data bus signal input from/output to mechanism control IC.
162	CS_EEPROM	O	Chip select signal output to EEPROM IC.
163	RXD1	I	Serial data input from check jig
164	TXD1	O	Serial data output to check jig
165	WC_EEPROM	O	Write control signal output to EEPROM IC.
166	GNDP	—	Ground pin (I/O signal)
167	VDDP	—	Power supply pin (+3.3 V) (I/O signal)
168 to 171	SDDATA7 to SDDATA4	I	SDBUS data input from DVD decoder IC.
172	GND	—	Ground pin (inside core)
173	VDD	—	Power supply pin (+1.8 V) (inside core)
174 to 177	SDDATA3 to SDDATA0	I	SDBUS data input from DVD decoder IC.
178	SDREQ	O	SDBUS data request signal output to DVD decoder IC.
179	SDEN	I	SDBUS data enable signal input from DVD decoder IC.
180	GNDP	—	Ground pin (I/O signal)
181	VDDP	—	Power supply pin (+3.3 V) (I/O signal)
182	SDERROR	I	SDBUS data error signal input from DVD decoder IC.
183	SDCLK	I	SDBUS data clock signal input from DVD decoder IC.
184	HIRQ1	I	Interrupt signal input from mechanism control IC.
185	DRVCLK	I	Serial data clock signal input from mechanism control IC.
186	DRVTX	I	Serial data input from mechanism control IC and EEPROM IC.
187	DRVRX	O	Serial data output to mechanism control IC and EEPROM IC.
188	DRVRDY	I	Ready signal input from mechanism control IC.
189	VNW	—	Power supply for 5 V tolerance voltage input
190	$\overline{\text{ALE}}$	O	Latch enable signal output for address data demux.
191	RST_SPC	O	Reset signal output to mechanism control IC.
192	$\overline{\text{HCS3}}$	O	Not used. (Open)
193	$\overline{\text{HCS2}}$	O	Chip select signal output
194	$\overline{\text{HCS1/XGACS}}$	I/O	Chip select signal input/output
195	$\overline{\text{HCS0}}$	O	Chip select signal output
196	VDDP	—	Power supply pin (+3.3 V) (I/O signal)
197	$\overline{\text{TRST}}$	I	Reset signal input
198	TDO	O	Data output
199	TDI	I	Data input
200	TMS	I	TMS signal input
201	TCK	I	TCK signal input
202	RESET	I	ZIVA reset signal input
203	BUS CLK	I/O	Not used. (Open)
204	GND	—	Ground pin (inside core)
205	VDD	—	Power supply pin (+1.8 V) (inside core)
206, 207	HA3, HA2	I/O	Address bus signal input/output
208	GNDP	—	Ground pin (I/O signal)

• IC1047 CXD9698R (INTERLACE/PROGRESSIVE CONVERTER) (MB Board (11/12))

Pin No.	Pin Name	I/O	Pin Description
1	DVDD	—	Power supply pin (+3.3 V)
2	CLKI	I	Digital video clock signal (27 MHz) input
3	PLL_TEST	I	Input for the test (normally: fixed at L)
4	PLL_EN	I	PLL enable signal input
5, 6	PI0, PI1	I	Digital video signal input Not used. (Fixed at L in this set.)
7 to 14	PI2 to PI9	I	Digital video signal input
15	NHSI	I	Horizontal sync signal input Not used. (Fixed at L in this set.)
16	NVSI	I	Vertical sync signal input Not used. (Fixed at L in this set.)
17	OVSS	—	Ground pin (for digital system)
18	IVSS	—	Ground pin (for digital system)
19	CVSS	—	Ground pin (for digital system)
20	NVSO	O	Vertical sync signal output Not used. (Open)
21	NHSI	O	Horizontal sync signal output Not used. (Open)
22 to 25	PO9 to PO6	O	Digital video signal output
26	OVDD	—	Power supply pin (+3.3 V)
27	OVSS	—	Ground pin (for digital system)
28 to 31	PO5 to PO2	O	Digital video signal output
32, 33	PO1, PO0	O	Digital video signal output Not used. (Open)
34	TEST0	I	Input for the test (normally: fixed at L)
35	OVSS	—	Ground pin (for digital system)
36	OVDD	—	Power supply pin (+3.3 V)
37	CVDD	—	Power supply pin (+2.5 V)
38, 39	TEST1, TEST2	I	Input for the test (normally: fixed at L)
40	CLKO	I	Clock signal (27 MHz) output
41 to 45	YO9 to YO5	O	Y (luminance) digital video signal output
46	OVDD	—	Power supply pin (+3.3 V)
47	OVSS	—	Ground pin (for digital system)
48 to 52	YO4 to YO0	O	Y (luminance) digital video signal output
53	OVDD	—	Power supply pin (+3.3 V)
54	CVSS	—	Ground pin (for digital system)
55	OVSS	—	Ground pin (for digital system)
56 to 60	CO0 to CO4	O	C (chroma) digital video signal output to video encoder IC
61	OVDD	—	Power supply pin (+3.3 V)
62	OVSS	—	Ground pin (for digital system)
63 to 67	CO5 to CO9	O	C (chroma) digital video signal output to video encoder IC
68	FILM	O	Film detection flag output Not used. (Open)
69	W3IF	I	MPU interface communication protocol selection signal input Not used. (Fixed at L in this set.)
70	OVSS	—	Ground pin (for digital system)
71	CVDD	—	Power supply pin (+2.5 V)
72	IVDD	—	Power supply pin (+3.3 V)
73	OVDD	—	Power supply pin (+3.3 V)
74 to 77	MD19 to MD16	I/O	Two-way data bus terminal Not used. (Open)
78	OVDD	—	Power supply pin (+3.3 V)
79	OVSS	—	Ground pin (for digital system)
80 to 83	MA2 to MA5	O	Address signal output to SD-RAM IC
84	OVDD	—	Power supply pin (+3.3 V)
85	OVSS	—	Ground pin (for digital system)
86 to 89	MA0, MA1, MA6, MA7	O	Address signal output to SD-RAM IC
90	OVSS	—	Ground pin (for digital system)
91	IVSS	—	Ground pin (for digital system)
92	CVSS	—	Ground pin (for digital system)

Pin No.	Pin Name	I/O	Pin Description
93	OVDD	—	Power supply pin (+3.3 V)
94 to 97	MA8 to MA11	O	Address signal output to SD-RAM IC
98	OVDD	—	Power supply pin (+3.3 V)
99	OVSS	—	Ground pin (for digital system)
100	RAS	O	Row address strobe signal output to SD-RAM IC
101	CKE	O	Clock enable signal output Not used. (Open)
102	CAS	O	Column address strobe signal output to SD-RAM IC
103	MCLK	O	Clock signal (54 MHz) output to SD-RAM IC
104	WE	O	Write enable signal output to SD-RAM IC
105, 106	TEST3, TEST4	I	Input for the test (normally: fixed at L)
107	OVSS	—	Ground pin (for digital system)
108	OVDD	—	Power supply pin (+3.3 V)
109	CVDD	—	Power supply pin (+2.5 V)
110 to 113	MD7 to MD9	I/O	Two-way data bus with SD-RAM IC
114	OVDD	—	Power supply pin (+3.3 V)
115	OVSS	—	Ground pin (for digital system)
116 to 119	MD4, MD5, MD10, MD11	I/O	Two-way data bus with SD-RAM IC
120	OVDD	—	Power supply pin (+3.3 V)
121	OVSS	—	Ground pin (for digital system)
122 to 125	MD2, MD3, MD12, MD13	I/O	Two-way data bus with SD-RAM IC
126	OVSS	—	Ground pin (for digital system)
127	CVSS	—	Ground pin (for digital system)
128	OVDD	—	Power supply pin (+3.3 V)
129 to 132	MD0, MD1, MD14, MD15	I/O	Two-way data bus with SD-RAM IC
133	SLV	I	MPU interface slave address selection signal input Not used. (Fixed at L in this set.)
134	CSB	I	MPU interface chip select signal input Not used. (Fixed at L in this set.)
135	SDA	I/O	Two-way data bus input/output
136	SCL	I	Clock signal input
137	SRN	I	Reset signal input from the system controller “L”: reset
138	OVSS	—	Ground pin (for digital system)
139	CVDD	—	Power supply pin (+2.5 V)
140	PLL_VDD	—	Power supply pin (+2.5 V) (for PLL)
141	CPOUT	O	PLL charge pump output
142	VCOIN	I	PLL external loop filter input
143	PLL_GND	—	Ground pin (for PLL)
144	IVDD	—	Power supply pin (+3.3 V)

6-2. CIRCUIT BOARDS LOCATION



6-3. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- 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.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- ▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : DVD PLAY
  ( ) : CD PLAY
  [ ] : SACD PLAY
  * : Impossible to measure
- 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.
  : CD PLAY
  : DVD PLAY
  : SACD PLAY
  : AUX IN
  : OPTICAL DIGITAL IN
  : TUNER
  : AUDIO
  : VIDEO
  : Y
  : CHROMA
  : COMPONENT VIDEO
- Abbreviation
  CND : Canadian model.

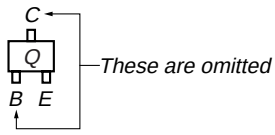
For printed wiring boards.

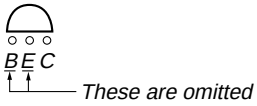
Note:

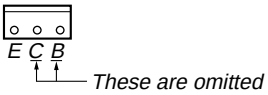
- o——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ○ : Through hole.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.



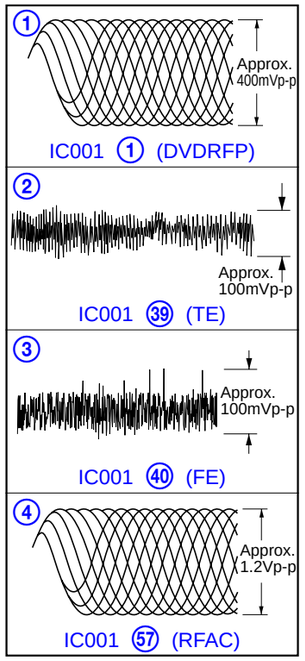




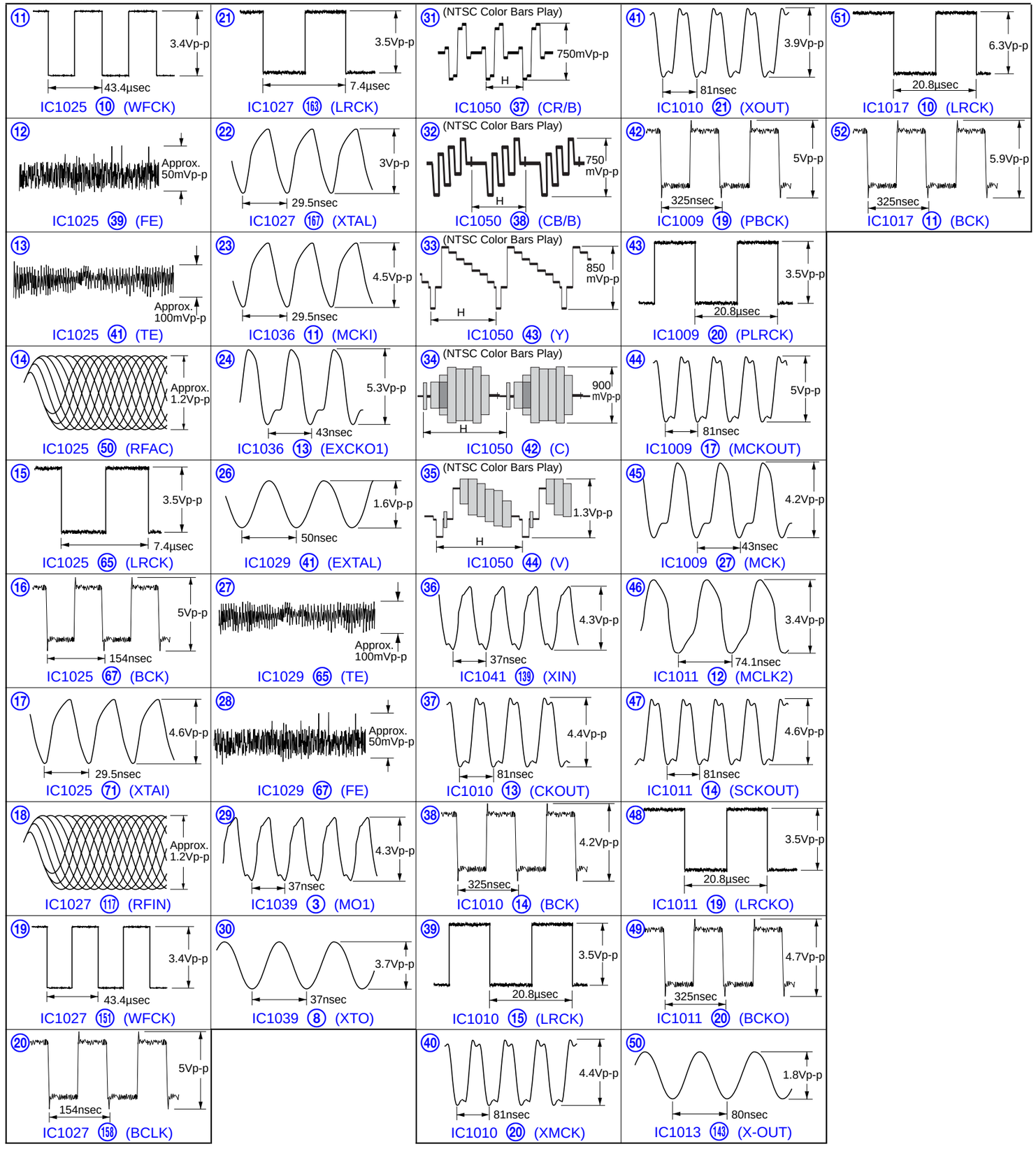
- Abbreviation
  CND : Canadian model.

6-4. WAVEFORMS

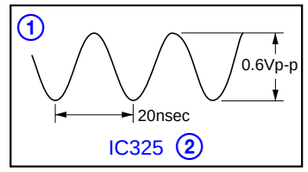
– RF Board –



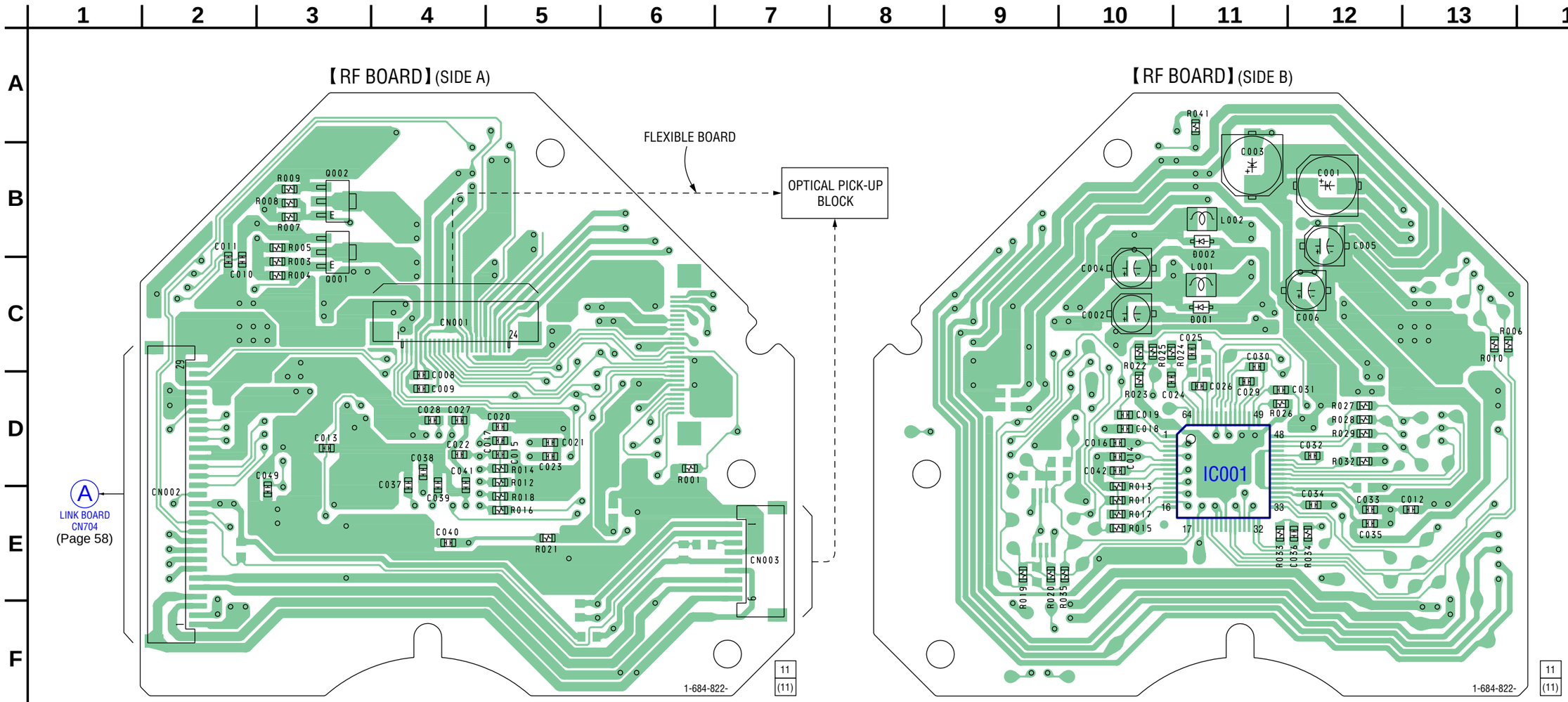
– MB Board –



– AMP Board –



6-5. PRINTED WIRING BOARD — RF SECTION — • Refer to page 51 for Circuit Boards Location. : Uses unleaded solder.

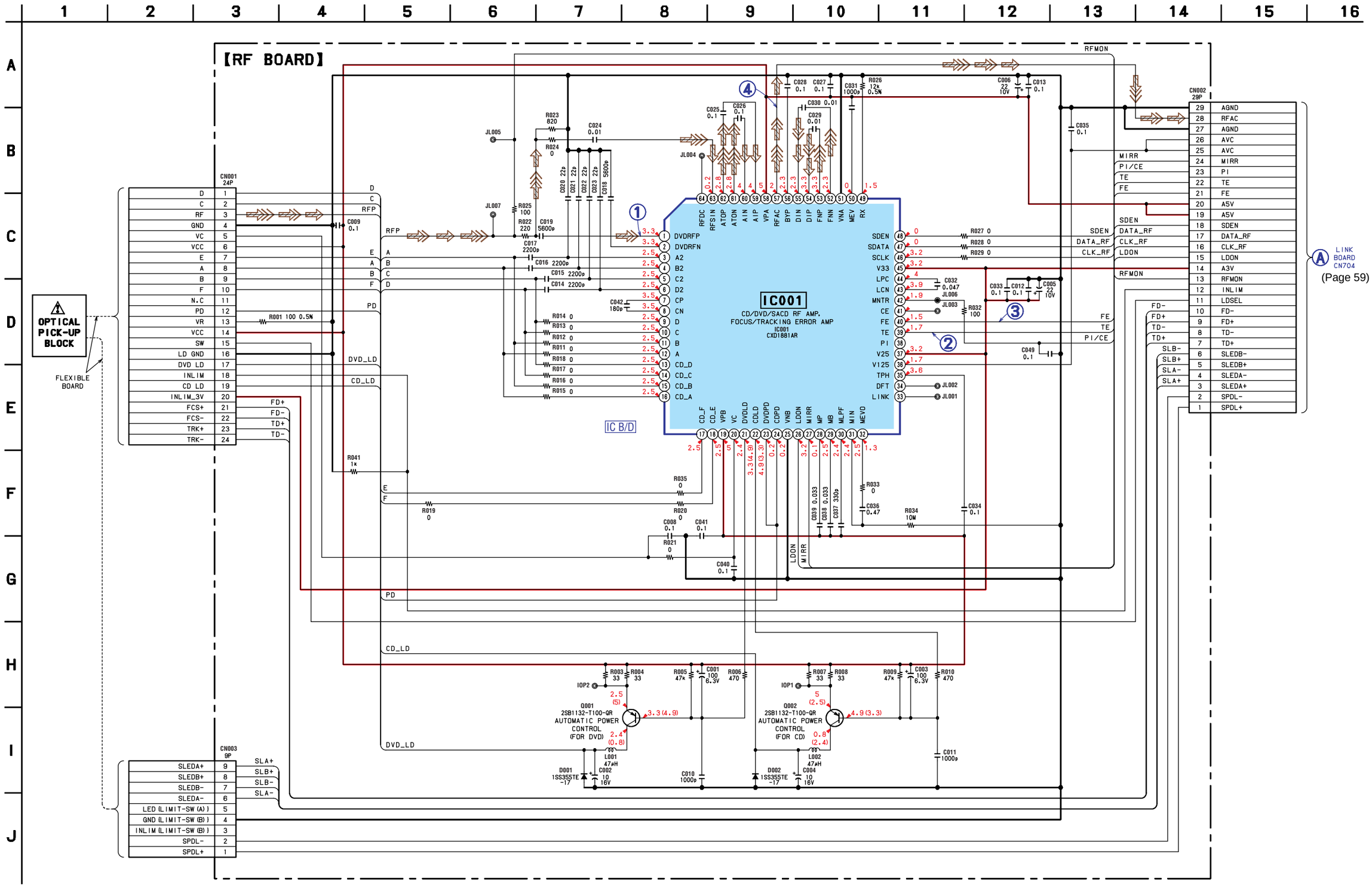


- **Semiconductor Location**

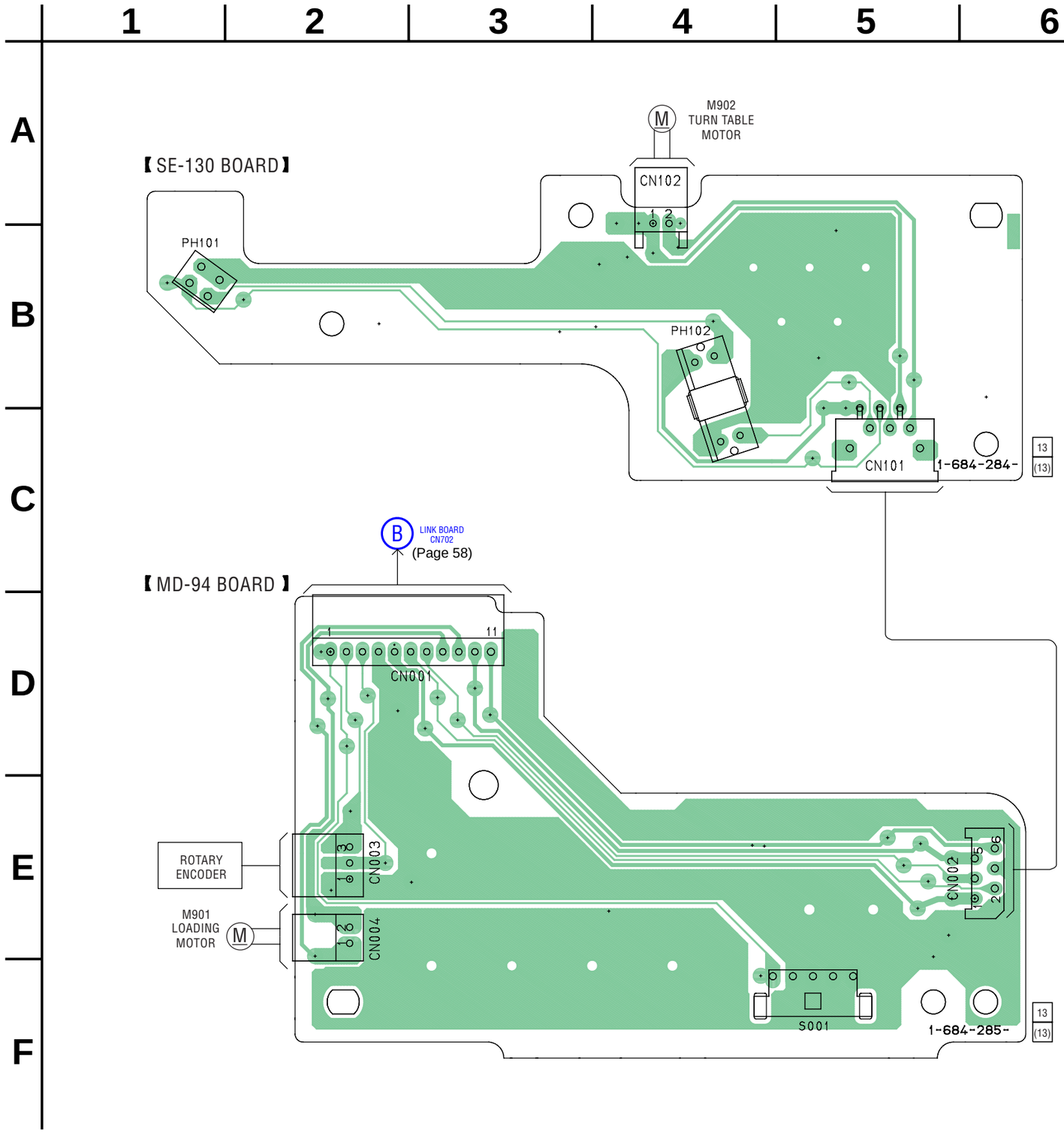
Ref. No.	Location
D001	C-11
D002	B-11
IC001	D-11
Q001	C-3
Q002	B-3

6-6. SCHEMATIC DIAGRAM — RF SECTION —

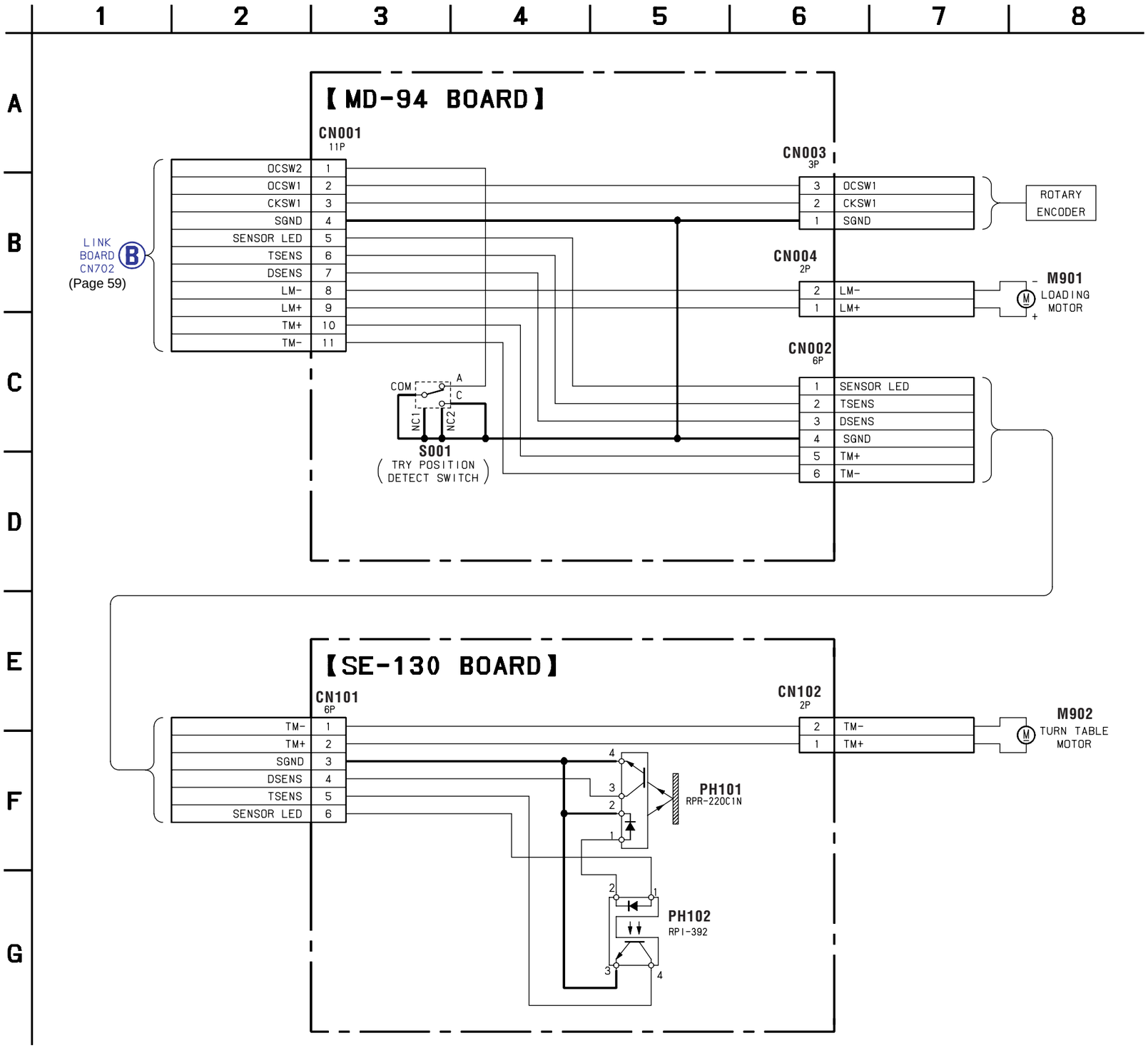
• Refer to page 53 for Waveforms.
• Refer to page 91 for IC Block Diagram.



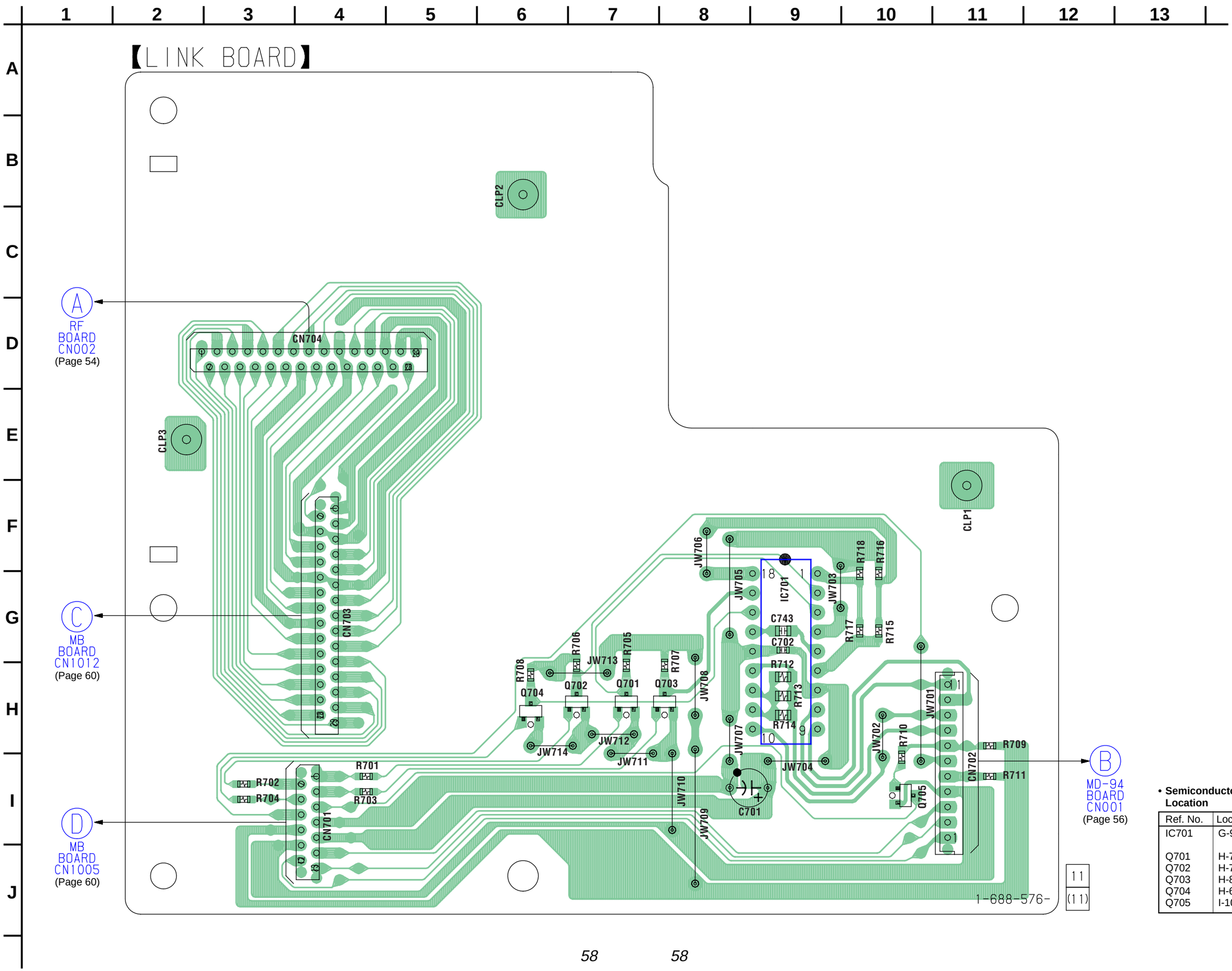
6-7. PRINTED WIRING BOARDS — LOADING SECTION — • Refer to page 51 for Circuit Boards Location. : Uses unleaded solder.



6-8. SCHEMATIC DIAGRAM — LOADING SECTION —



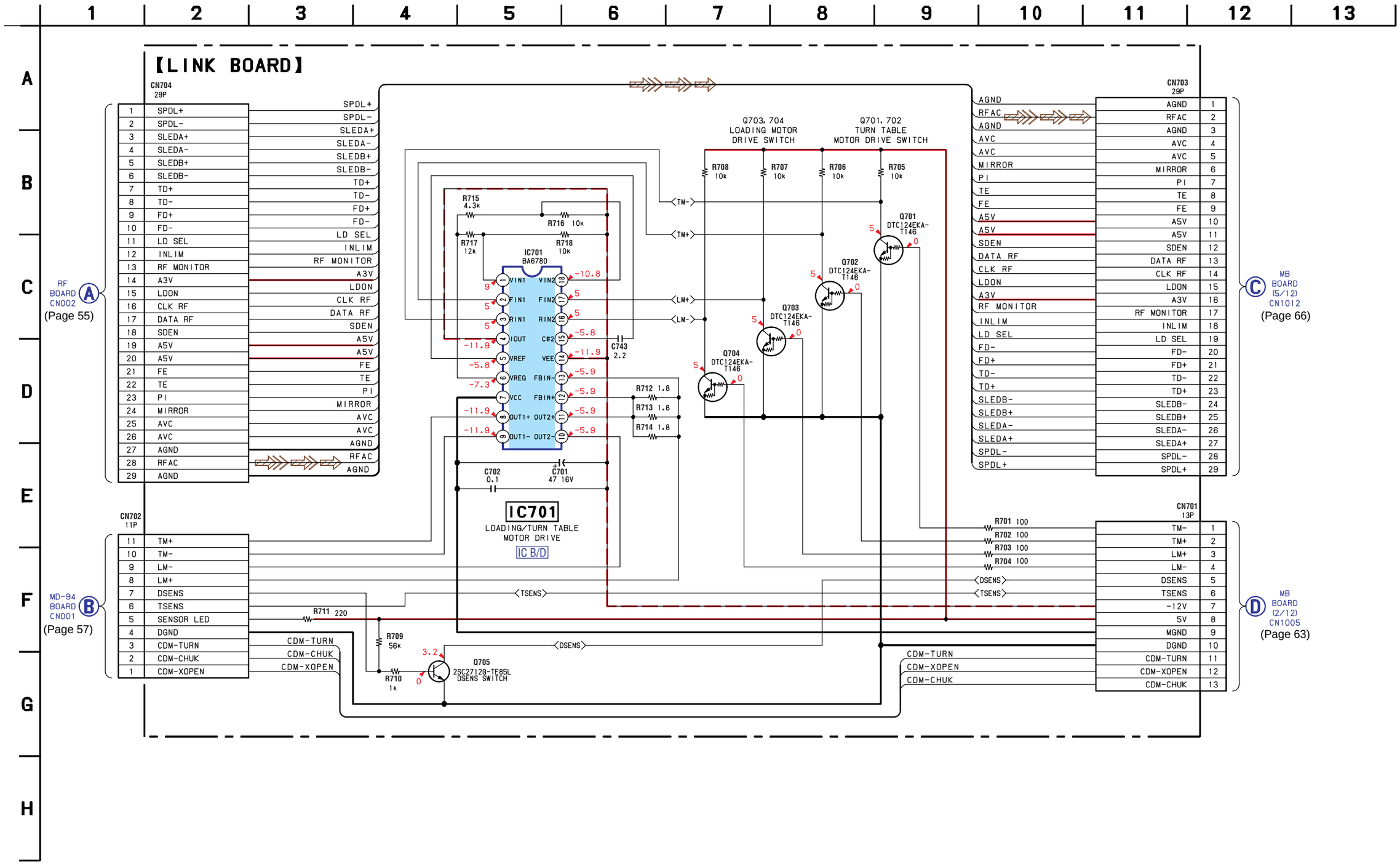
6-9. PRINTED WIRING BOARD — LINK SECTION — • Refer to page 51 for Circuit Boards Location. : Uses unleaded solder.



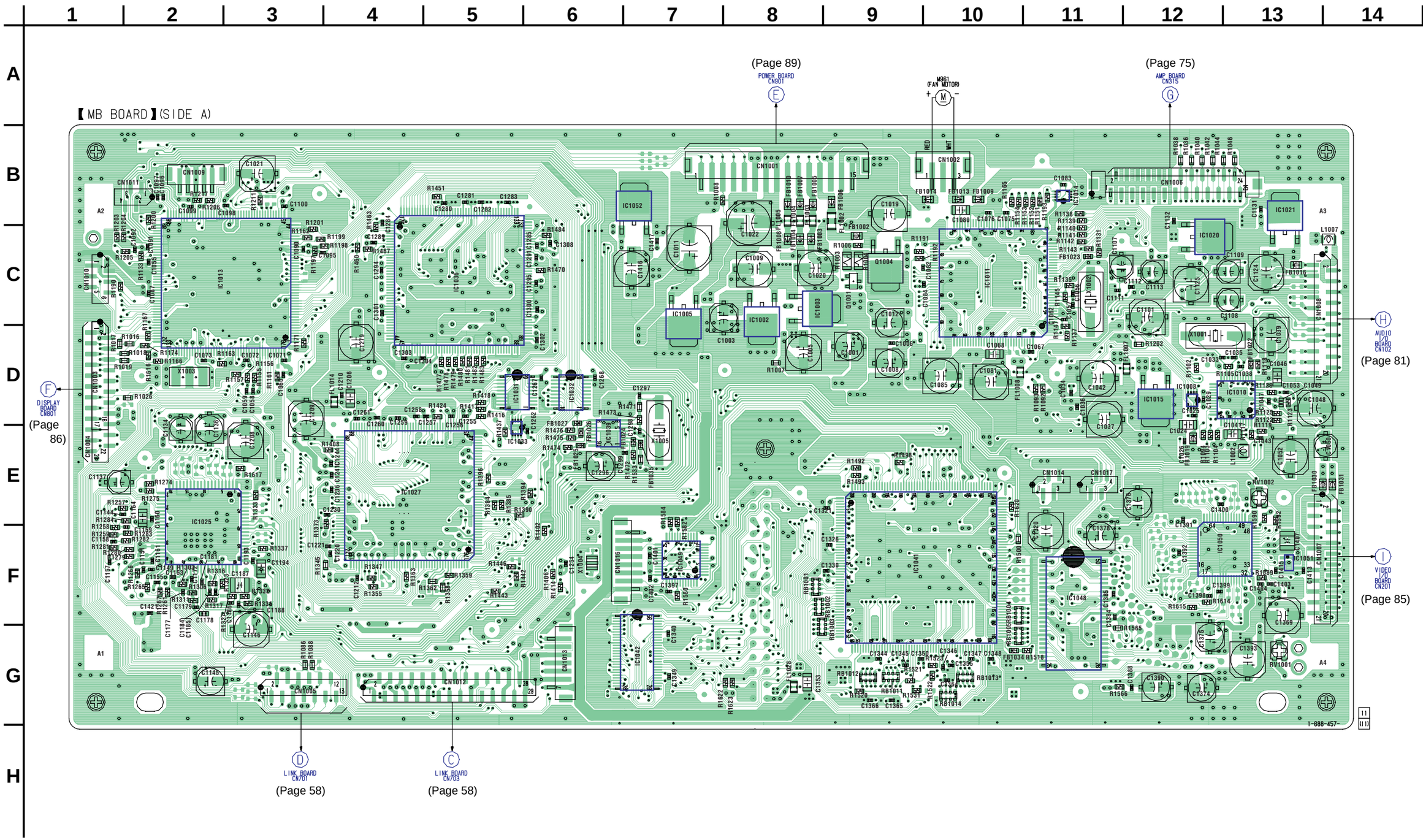
• **Semiconductor Location**

Ref. No.	Location
IC701	G-9
Q701	H-7
Q702	H-7
Q703	H-8
Q704	H-6
Q705	I-10

6-10. SCHEMATIC DIAGRAM — LINK SECTION — • Refer to page 92 for IC Block Diagram.



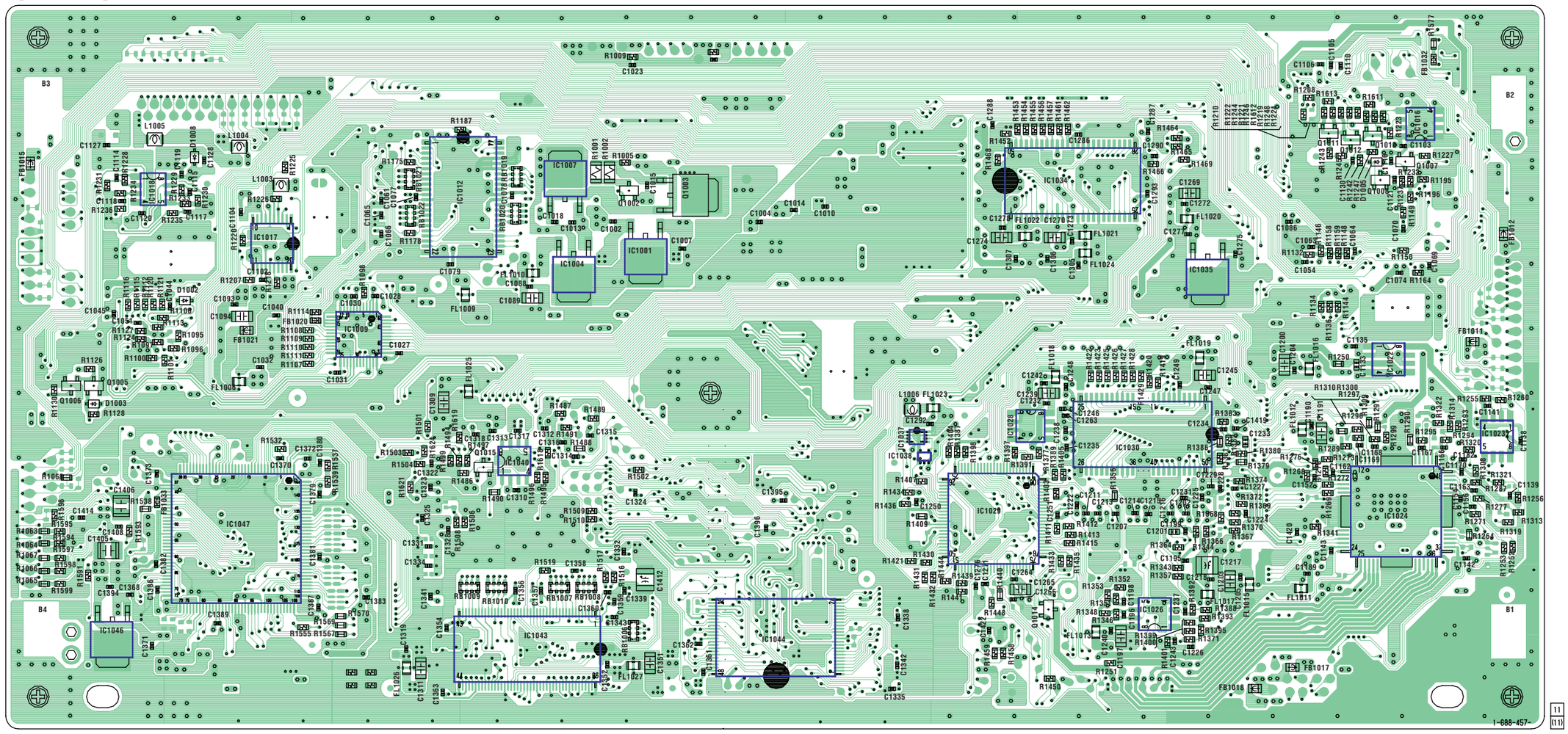
6-11. PRINTED WIRING BOARD — MB SECTION — • Refer to page 51 for Circuit Boards Location. : Uses unleaded solder.



• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
IC1002	C-8	IC1021	B-13	IC1048	F-11
IC1003	C-8	IC1025	E-2	IC1049	F-7
IC1005	C-7	IC1027	E-4	IC1050	F-12
IC1008	D-12	IC1031	D-5	IC1051	F-13
IC1010	D-13	IC1032	D-6	IC1052	B-7
IC1011	C-10	IC1033	E-5		
IC1013	C-2	IC1036	C-5	Q1001	C-9
IC1014	B-11	IC1039	E-6	Q1004	C-9
IC1015	D-12	IC1041	F-9	Q1013	C-2
IC1020	C-12	IC1042	G-7		

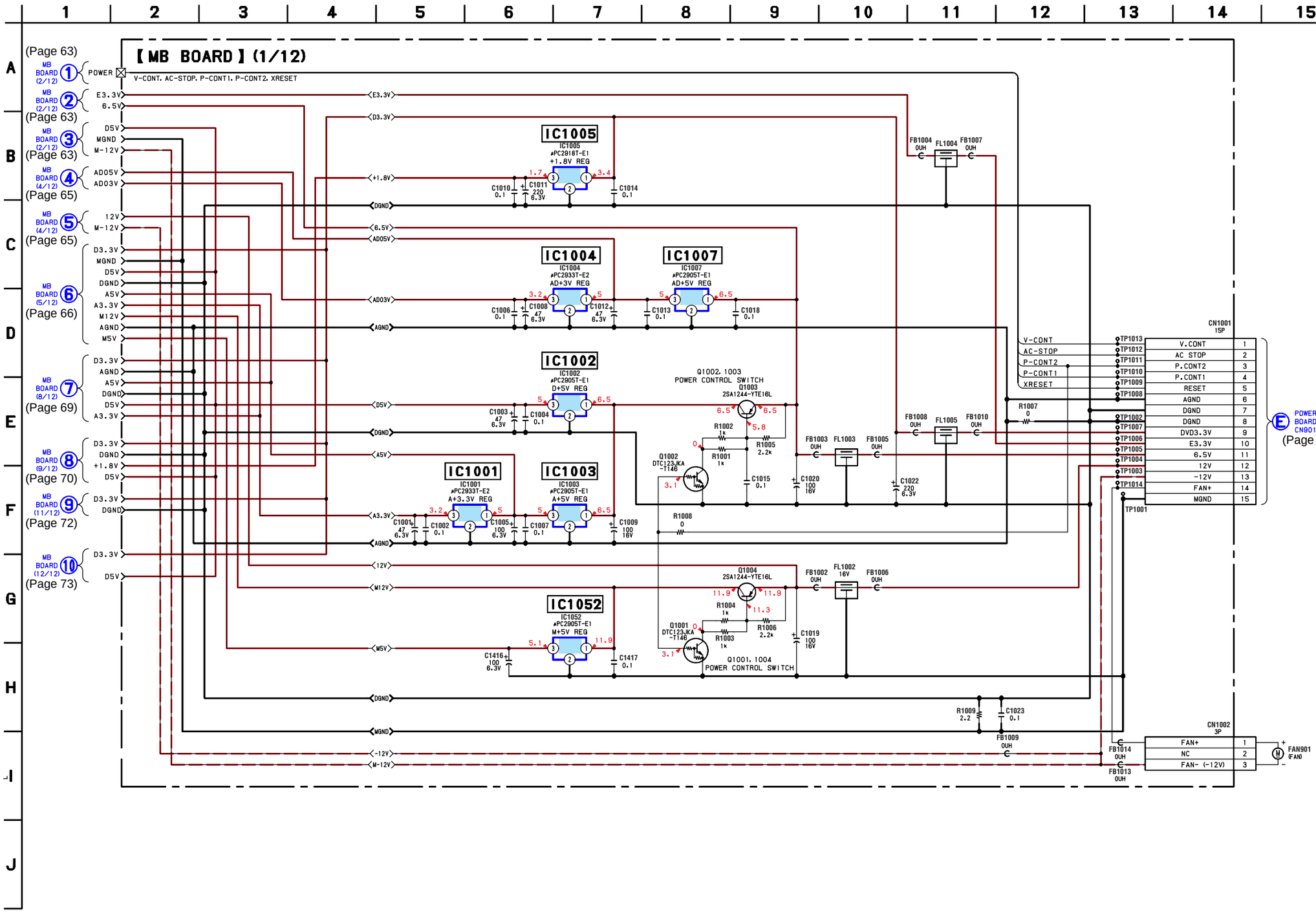
【MB BOARD】(SIDE B)



• **Semiconductor Location**

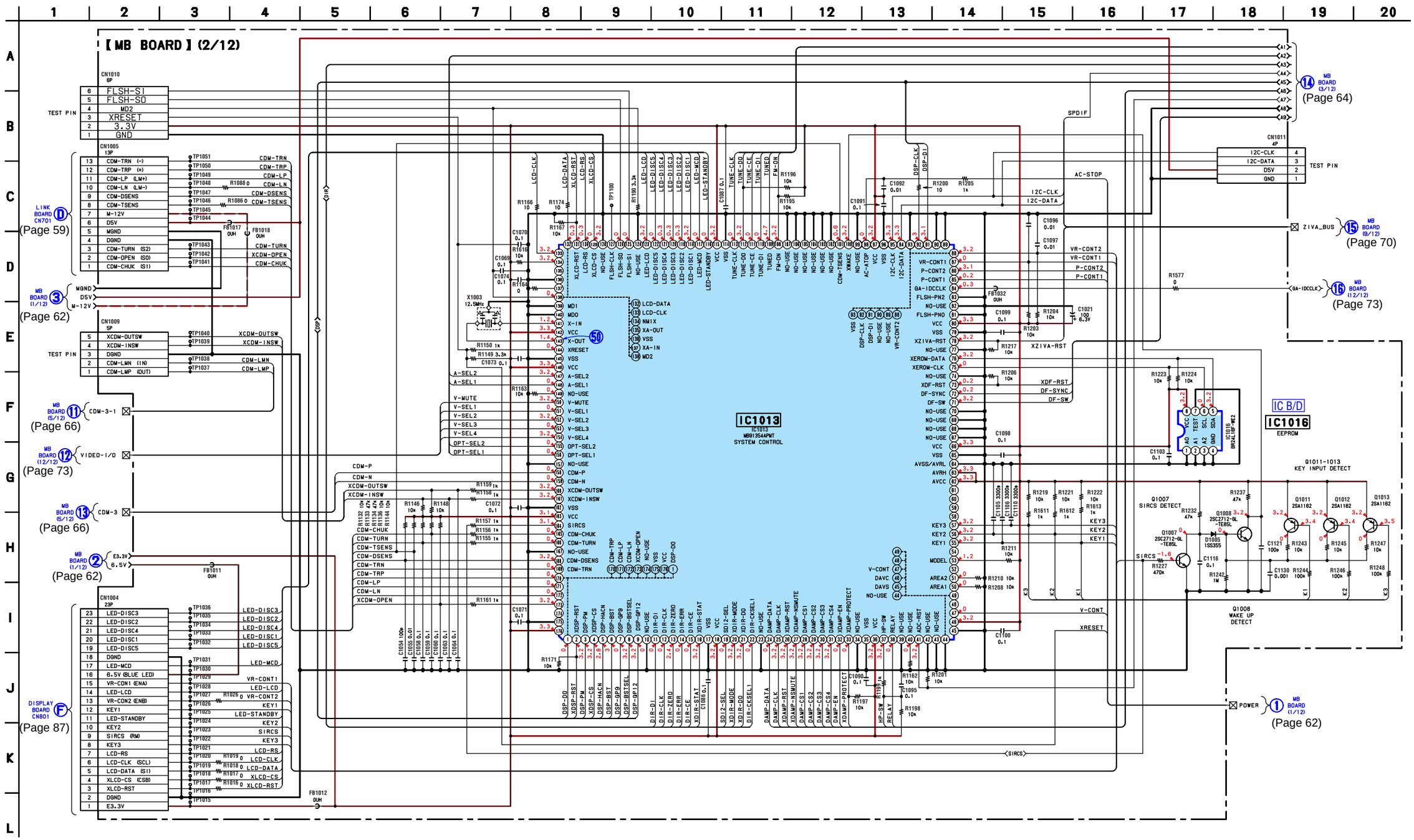
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1002	D-12	IC1016	B-2	IC1034	C-5	Q1002	C-9
D1003	E-13	IC1017	C-12	IC1035	D-4	Q1003	C-8
D1005	C-2	IC1018	C-13	IC1037	E-6	Q1005	E-13
D1008	C-12	IC1022	D-2	IC1038	E-6	Q1006	E-13
		IC1023	E-1	IC1040	E-10	Q1007	C-2
IC1001	D-8	IC1024	F-2	IC1043	G-9	Q1008	C-2
IC1004	C-9	IC1026	G-4	IC1044	G-7	Q1011	C-3
IC1007	C-9	IC1028	E-5	IC1046	G-13	Q1012	C-3
IC1009	D-11	IC1029	F-6	IC1047	F-12	Q1014	G-5
IC1012	C-10	IC1030	E-4			Q1015	E-10

6-12. SCHEMATIC DIAGRAM — MB SECTION (1/12) —



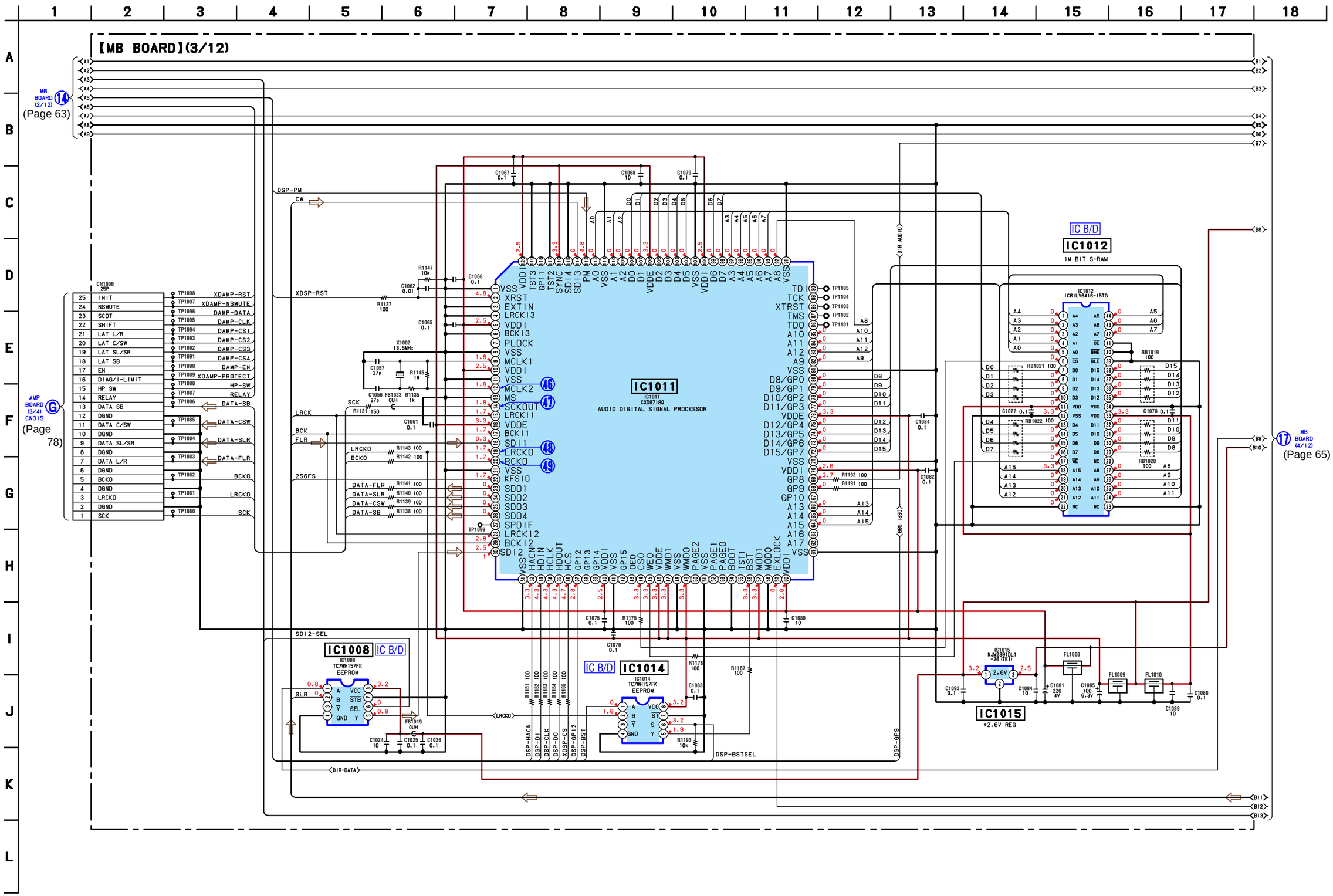
6-13. SCHEMATIC DIAGRAM — MB SECTION (2/12) —

• Refer to page 53 for Waveform.
• Refer to page 92 for IC Block Diagram.



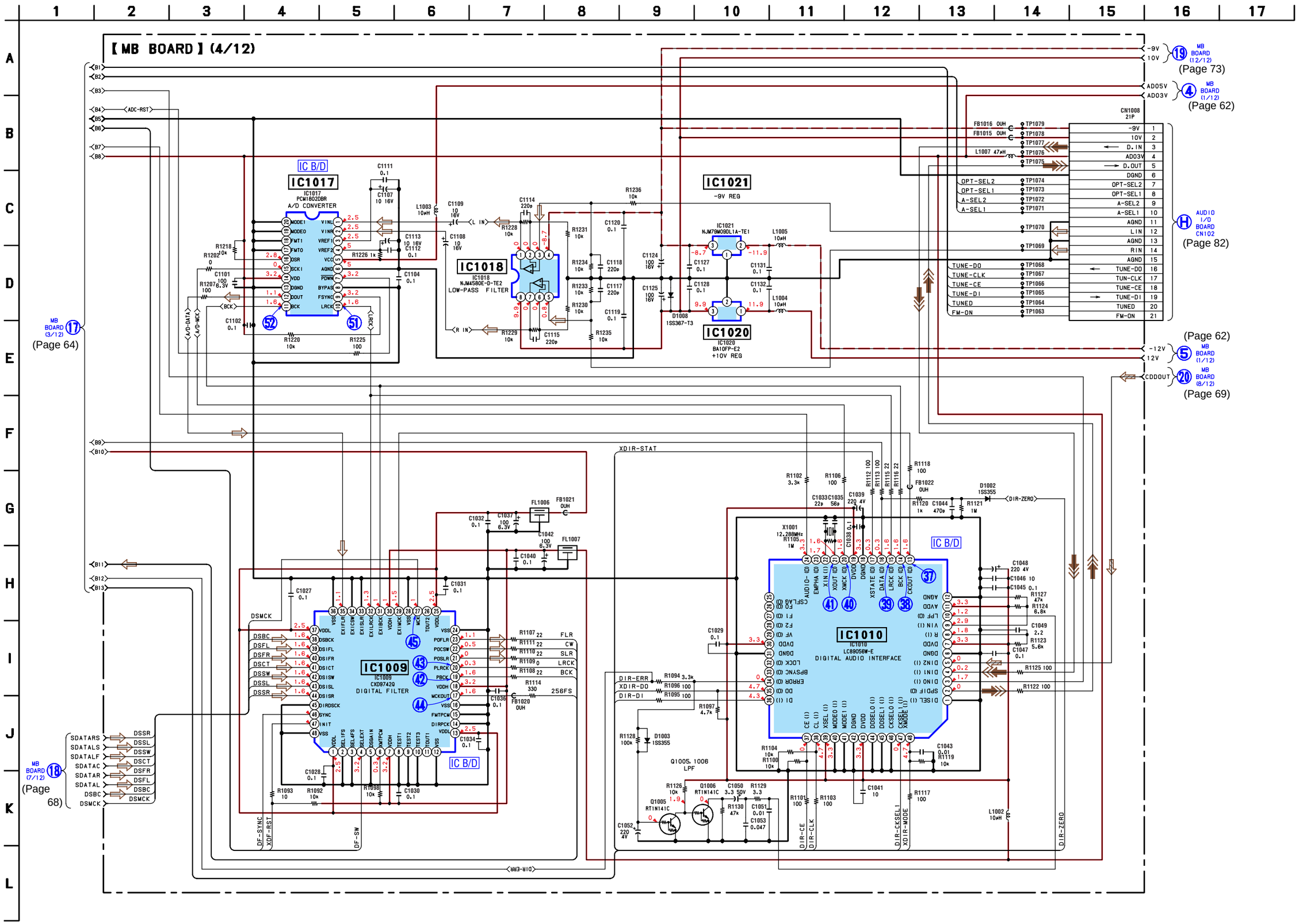
6-14. SCHEMATIC DIAGRAM — MB SECTION (3/12) —

• Refer to page 53 for Waveforms.
• Refer to page 92 for IC Block Diagrams.



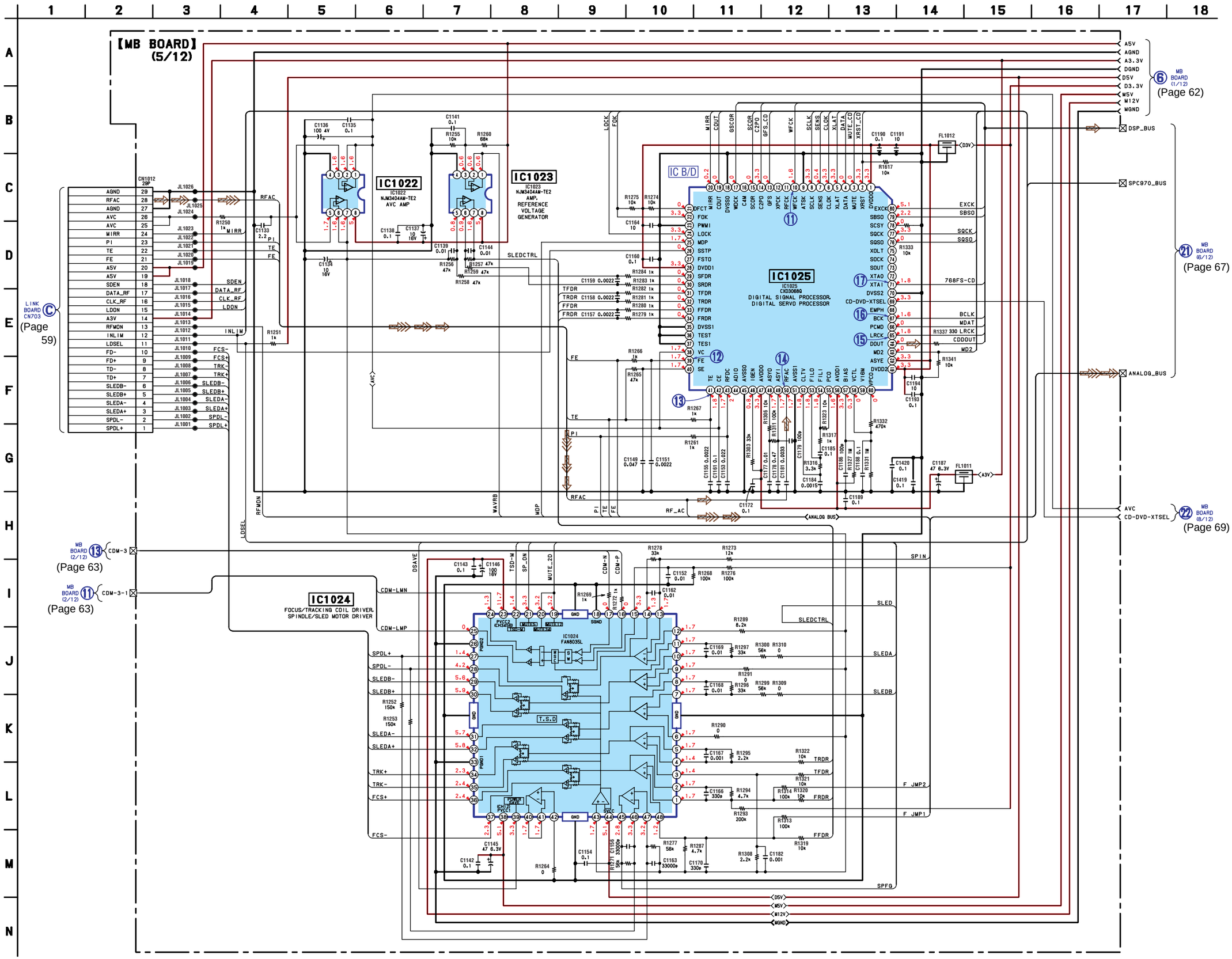
6-15. SCHEMATIC DIAGRAM — MB SECTION (4/12) —

• Refer to page 53 for Waveforms.
• Refer to page 93 for IC Block Diagrams.



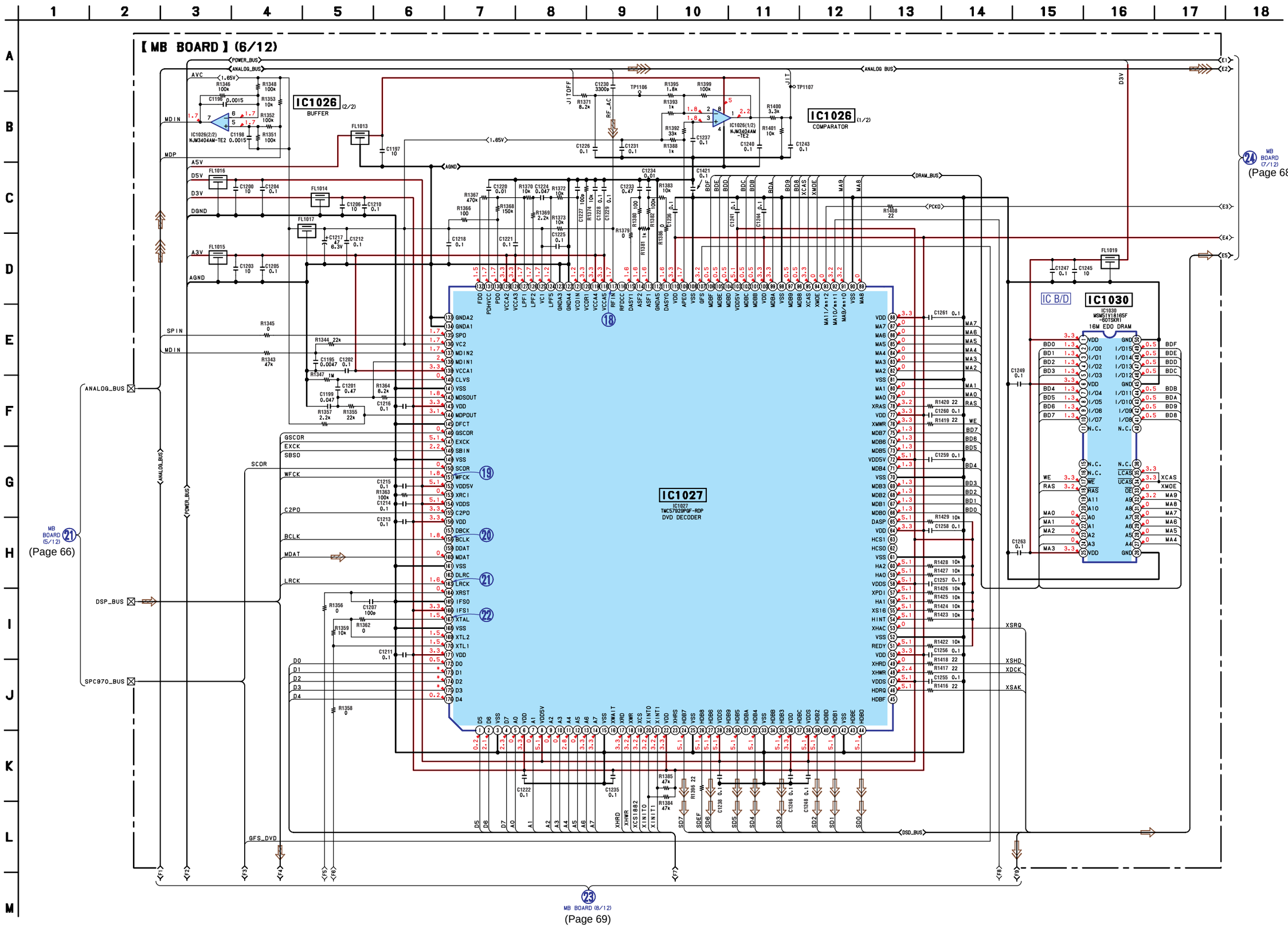
6-16. SCHEMATIC DIAGRAM — MB SECTION (5/12) —

• Refer to page 53 for Waveforms.
• Refer to page 95 for IC Block Diagram.



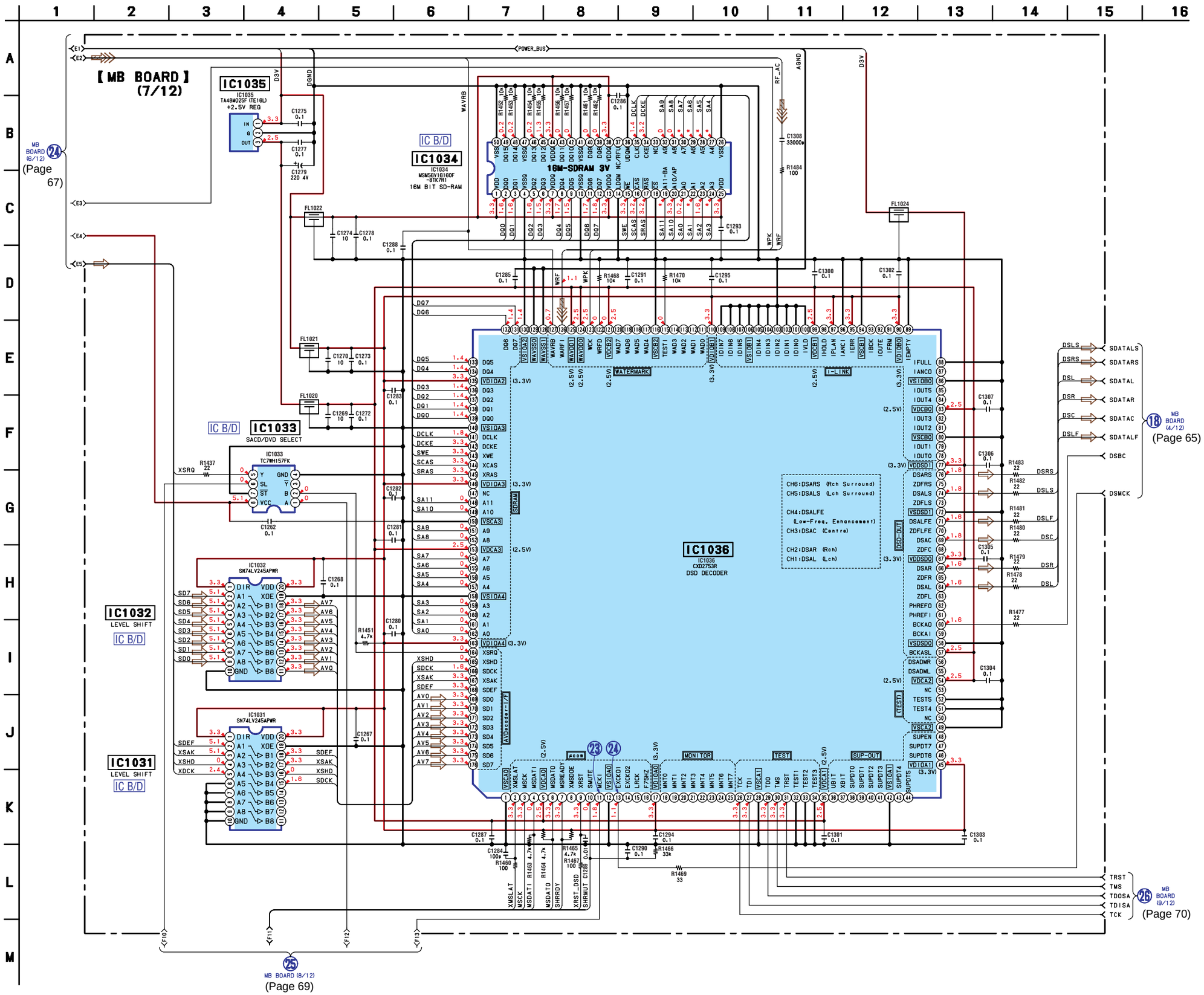
6-17. SCHEMATIC DIAGRAM — MB SECTION (6/12) —

• Refer to page 53 for Waveforms.
• Refer to page 96 for IC Block Diagram.



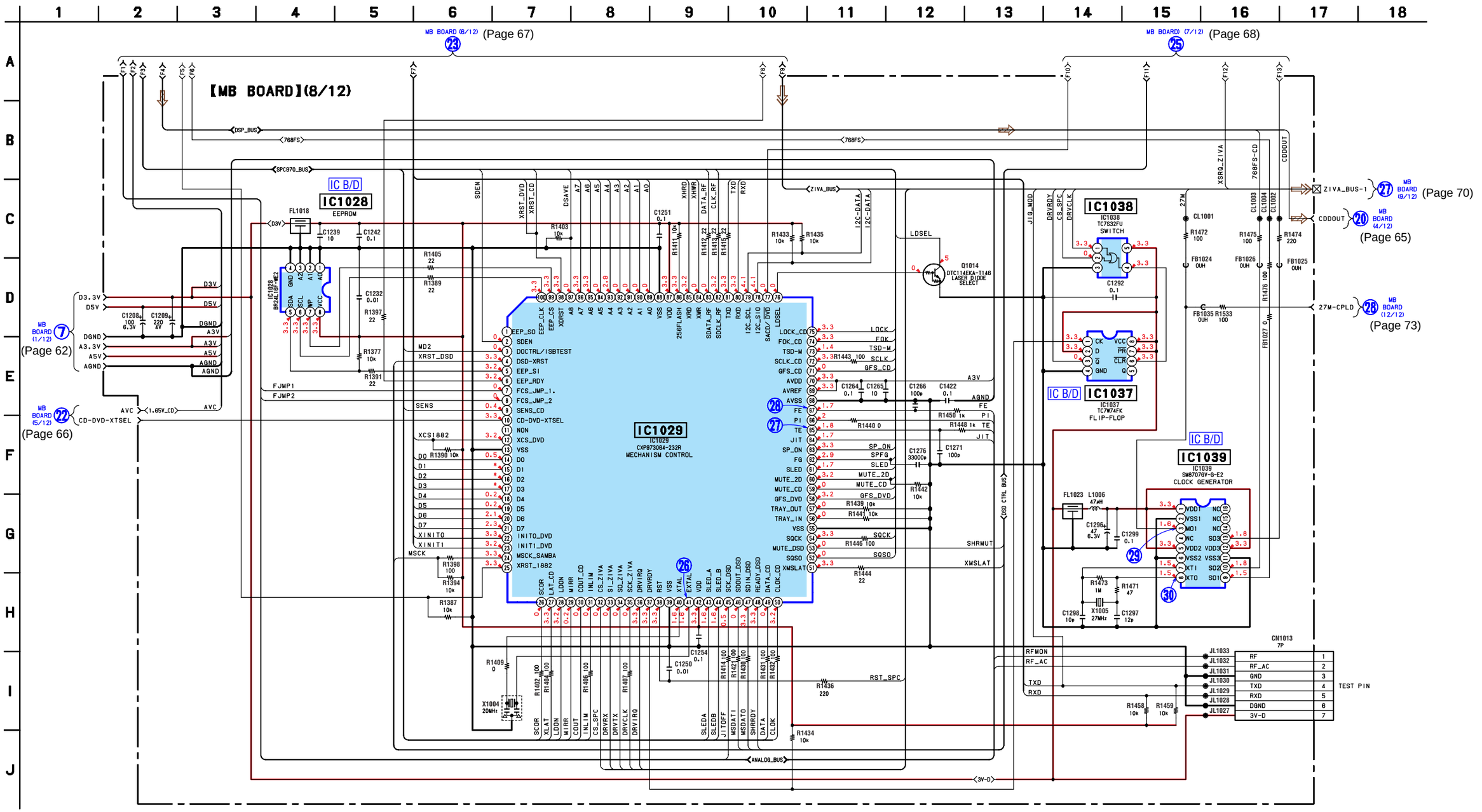
6-18. SCHEMATIC DIAGRAM — MB SECTION (7/12) —

• Refer to page 53 for Waveforms.
• Refer to page 95 for IC Block Diagrams.



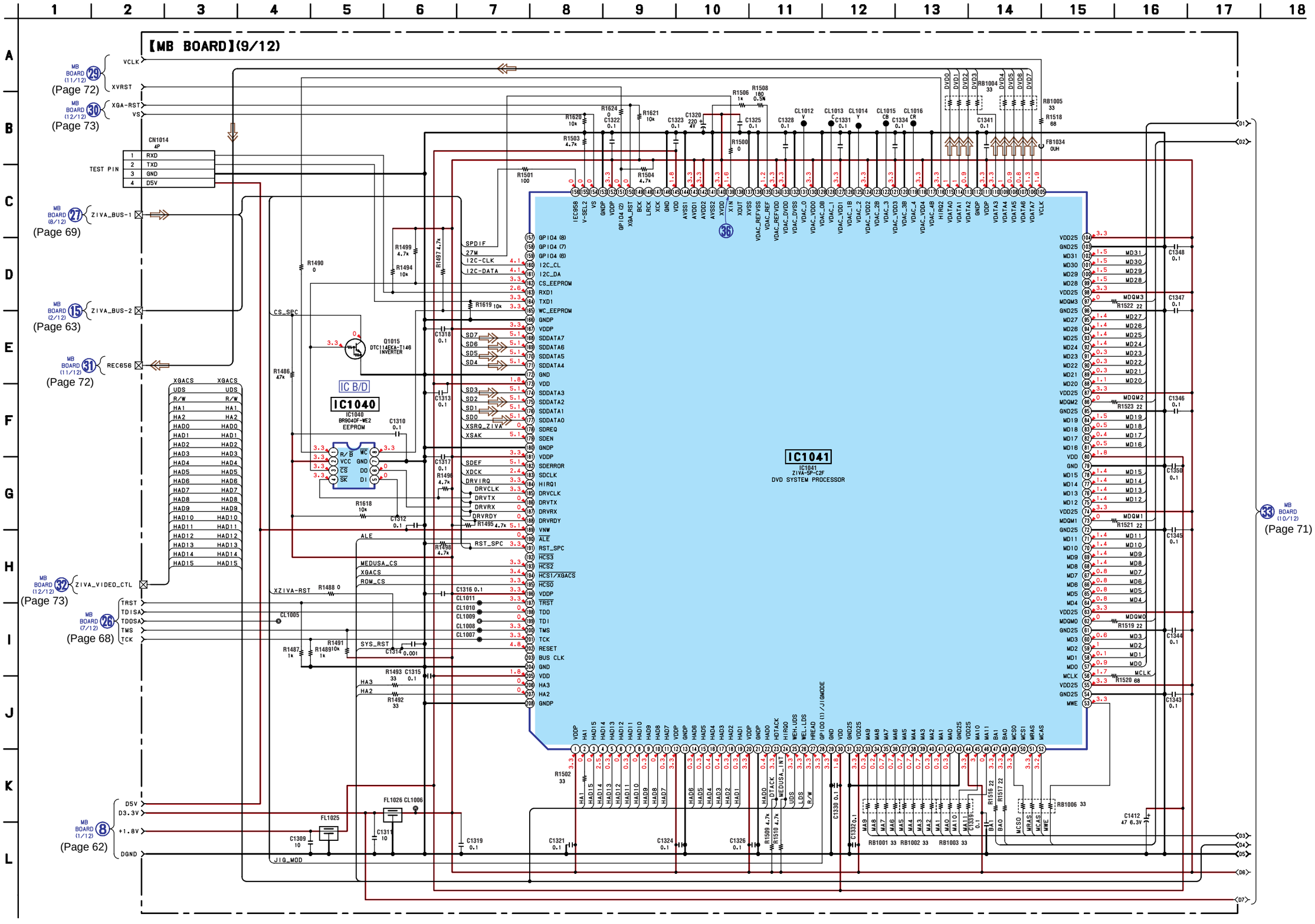
6-19. SCHEMATIC DIAGRAM — MB SECTION (8/12) —

• Refer to page 53 for Waveforms.
• Refer to page 92 for IC Block Diagrams.

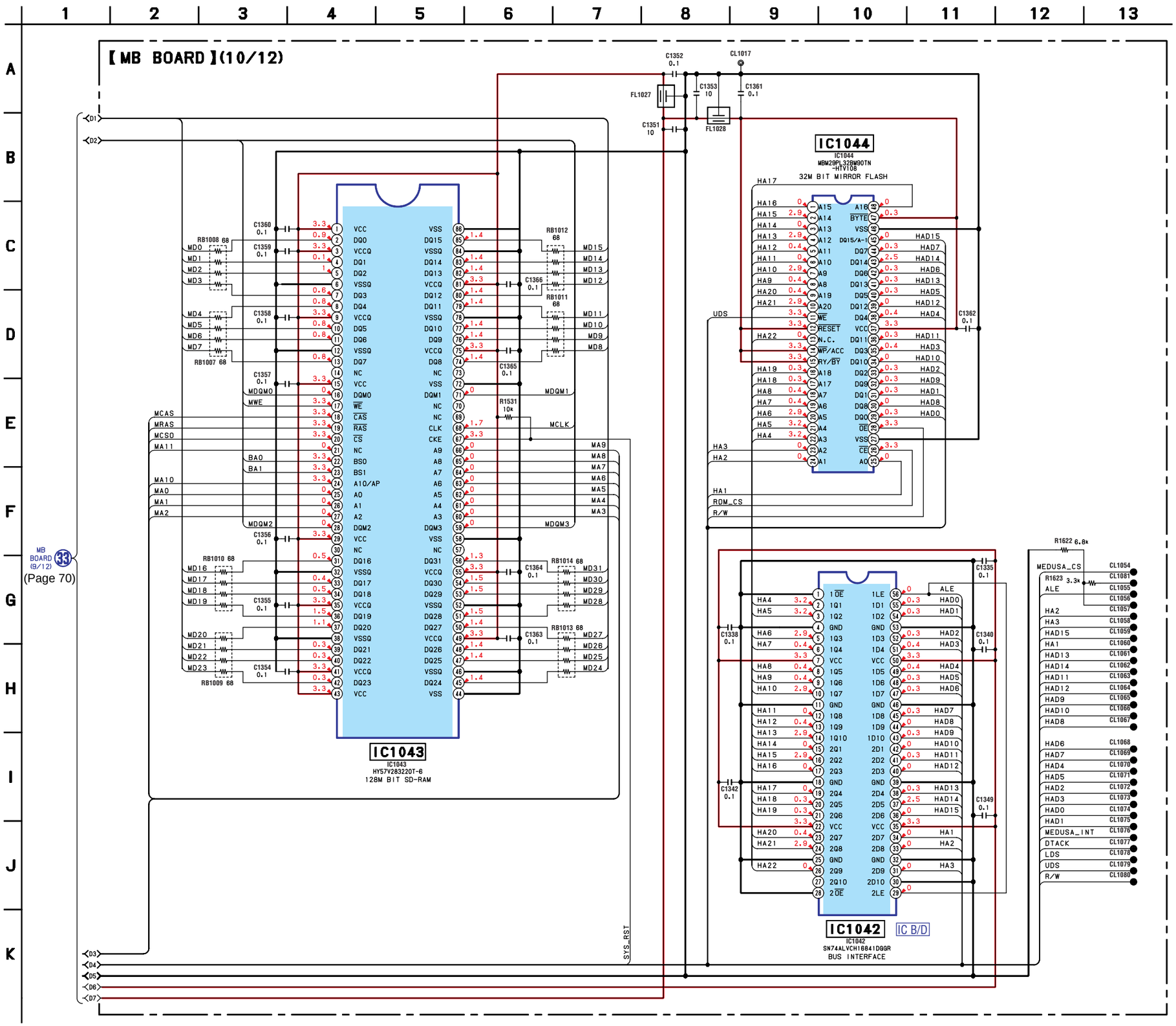


6-20. SCHEMATIC DIAGRAM — MB SECTION (9/12) —

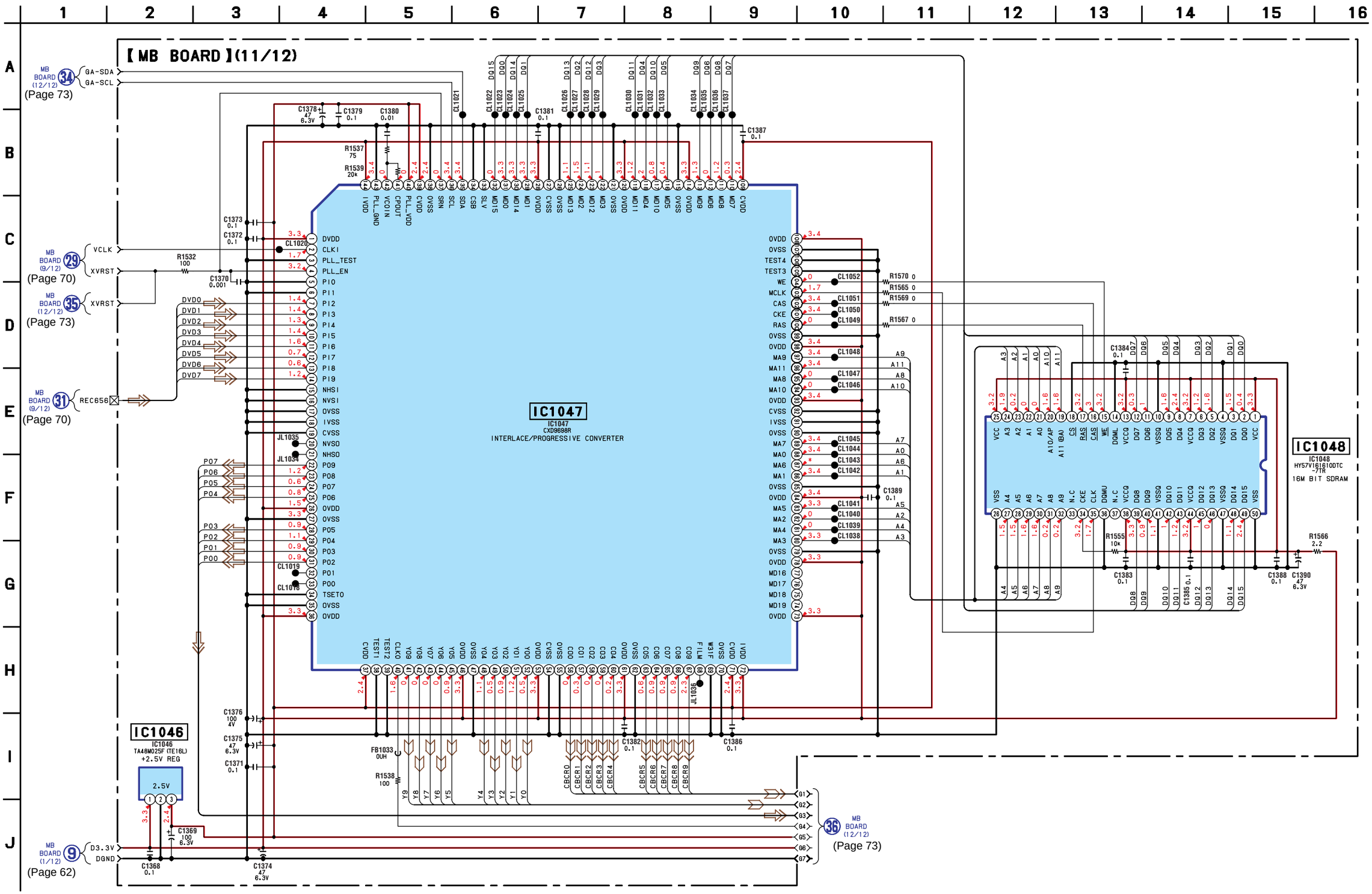
• Refer to page 53 for Waveform.
• Refer to page 97 for IC Block Diagram.



6-21. SCHEMATIC DIAGRAM — MB SECTION (10/12) — • Refer to page 98 for IC Block Diagram.

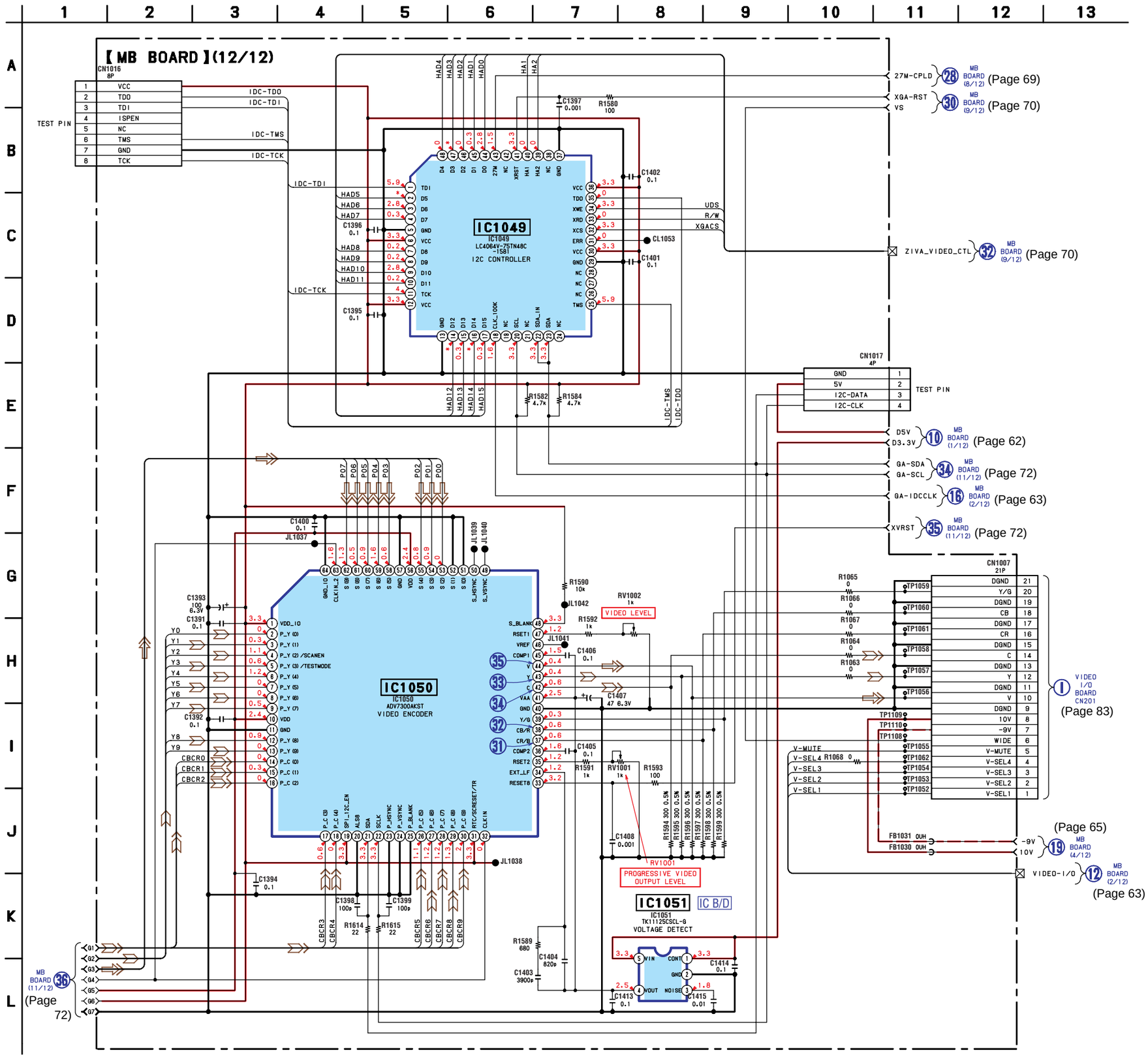


6-22. SCHEMATIC DIAGRAM — MB SECTION (11/12) —



6-23. SCHEMATIC DIAGRAM — MB SECTION (12/12) —

• Refer to page 53 for Waveforms.
• Refer to page 98 for IC Block Diagram.



• **Semiconductor Location (AMP Board (SIDE B))**

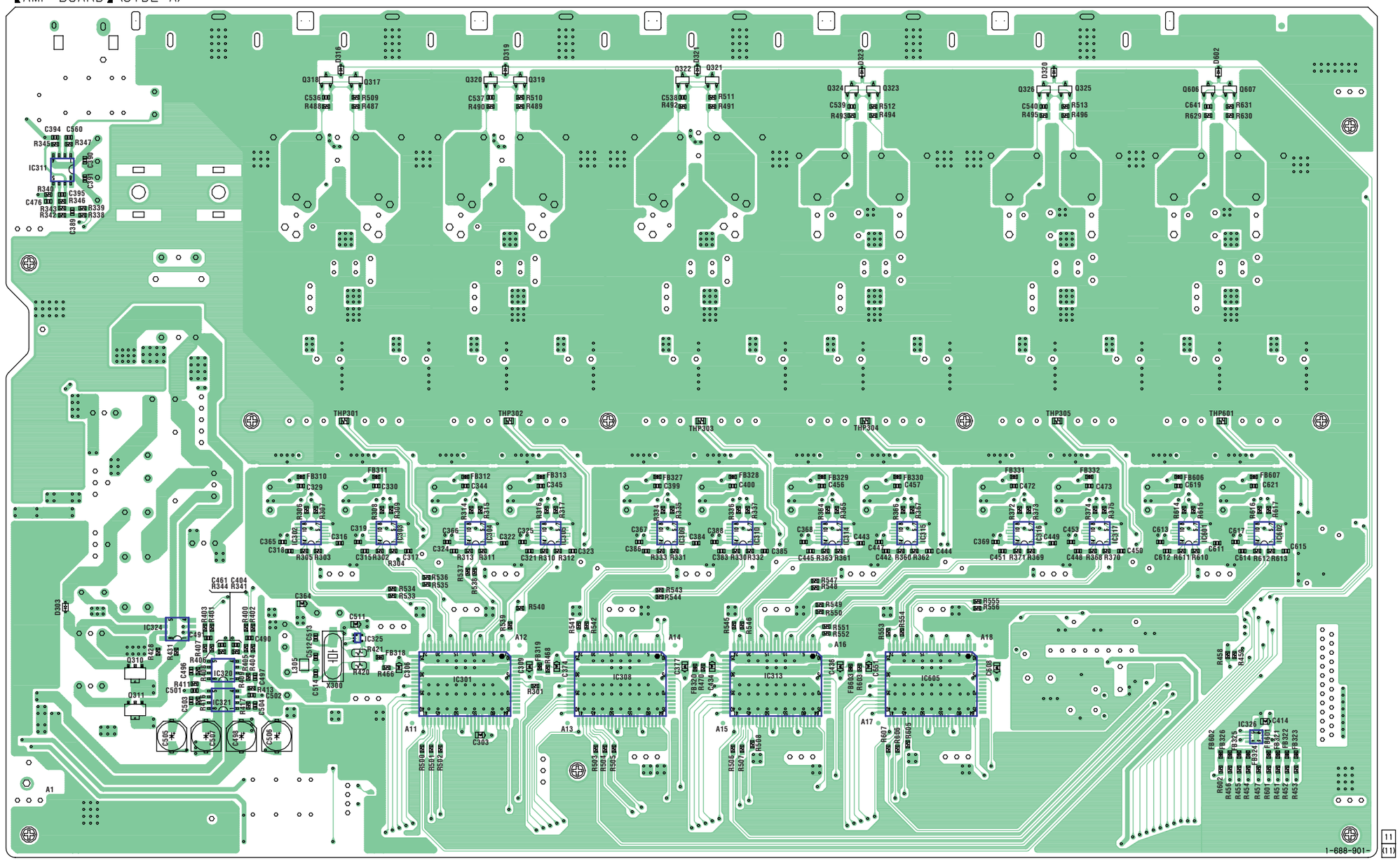
Ref. No.	Location	Ref. No.	Location
D301	F-2	Q315	H-11
D302	G-2	Q316	H-11
D304	G-2	Q327	H-11
D305	H-2	Q328	F-4
D306	G-12	Q329	H-10
D307	F-2	Q330	F-5
D308	I-10	Q331	F-5
D310	G-7	Q332	F-6
D311	I-3	Q333	F-6
D312	C-1	Q334	F-7
D313	H-11	Q335	F-7
D315	G-8	Q336	F-8
D317	G-10	Q337	F-7
D318	G-11	Q338	F-8
D322	G-5	Q339	F-8
D326	G-2	Q340	F-9
D327	G-2	Q341	F-9
D328	H-4	Q342	F-10
D329	H-4	Q343	F-10
D601	G-13	Q344	F-11
		Q345	F-10
IC306	G-4	Q346	G-5
IC307	G-4	Q347	G-5
IC312	G-5	Q348	G-6
IC318	G-6	Q349	G-6
IC319	G-7	Q350	G-8
IC322	F-2	Q351	G-8
IC323	G-2	Q352	G-9
IC327	H-10	Q353	G-10
IC328	G-7	Q354	G-11
IC329	G-8	Q355	G-11
IC330	G-9	Q356	D-4
IC331	G-10	Q358	D-5
IC332	G-11	Q360	D-7
IC603	G-11	Q362	D-8
IC604	G-12	Q364	D-10
		Q601	F-12
Q304	F-4	Q602	F-11
Q307	C-1	Q603	F-12
Q308	C-1	Q604	F-12
Q309	F-4	Q608	G-13
Q312	H-11	Q609	G-13
Q313	F-4	Q610	G-13
Q314	I-10	Q612	D-11

6-24. PRINTED WIRING BOARD — AMP SECTION —

• Refer to page 51 for Circuit Boards Location.

: Uses unleaded solder.

【AMP BOARD】(SIDE A)



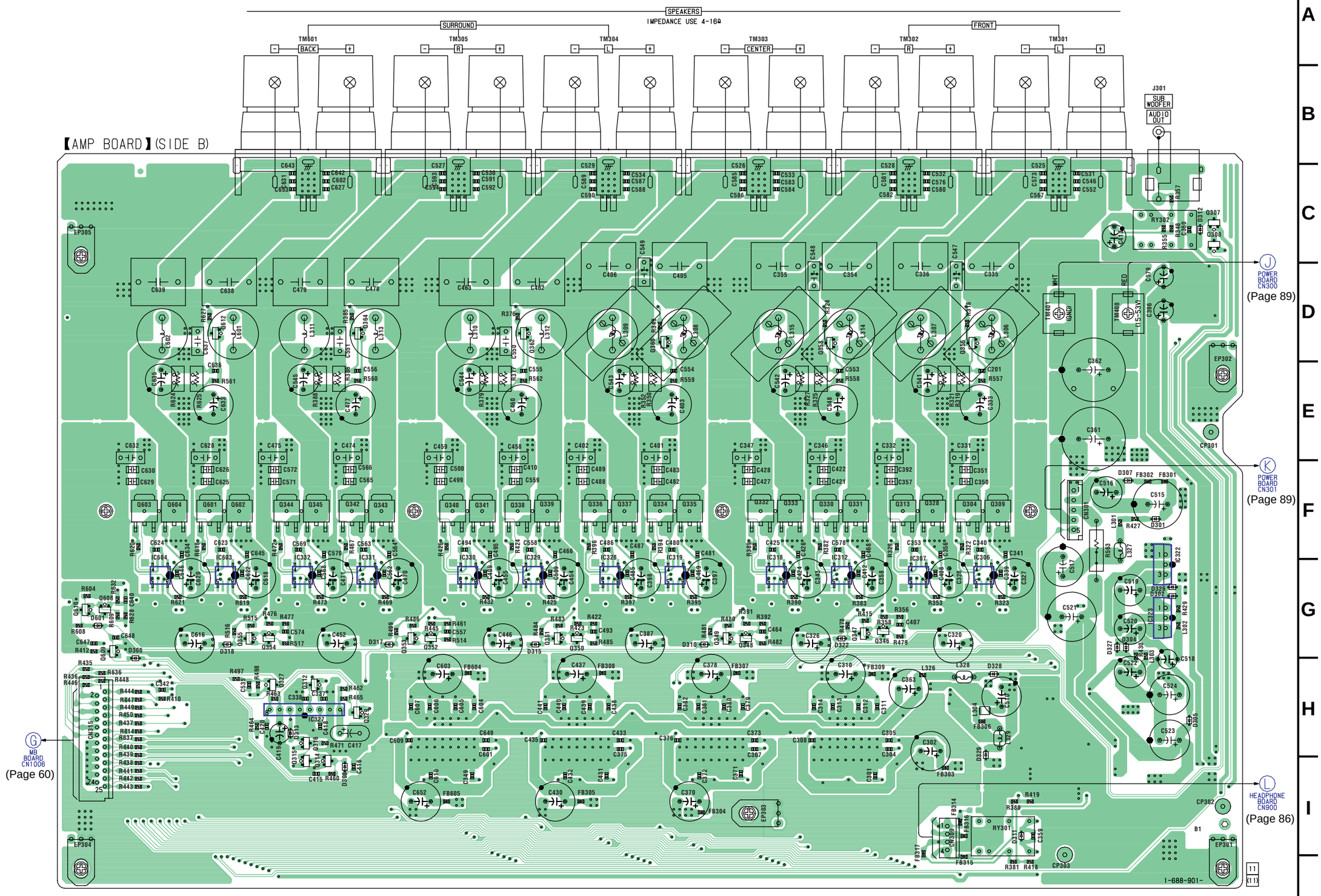
• **Semiconductor Location**

Ref. No.	Location
D303	H-2
D316	C-4
D319	C-5
D320	C-10
D321	C-7
D323	C-9
D602	C-12
IC301	H-5
IC302	G-4
IC303	G-4
IC304	G-5
IC305	G-6
IC308	H-6
IC309	G-7
IC310	H-8
IC311	D-1
IC313	H-8
IC314	H-8
IC315	G-9
IC316	G-10
IC317	G-11
IC320	H-3
IC321	H-3
IC324	H-3
IC325	H-4
IC326	I-12
IC601	G-11
IC602	G-12
IC605	H-9
Q310	H-2
Q311	I-2
Q317	C-4
Q318	C-4
Q319	C-6
Q320	C-5
Q321	C-7
Q322	C-7
Q323	C-9
Q324	C-8
Q325	C-10
Q326	C-10
Q606	C-12
Q607	C-12

• **Refer to page 73 for Semiconductor Location.**

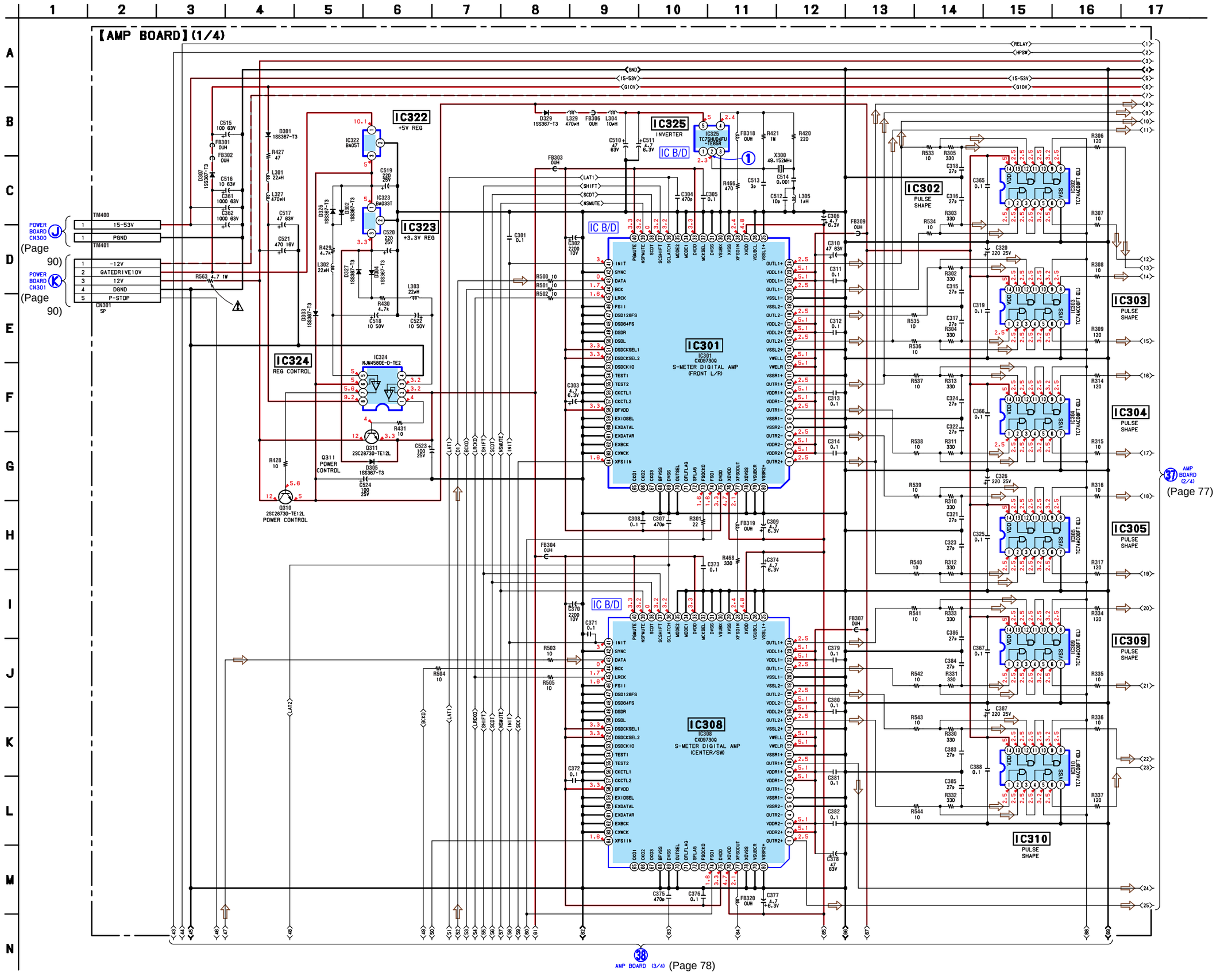
14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J



6-25. SCHEMATIC DIAGRAM — AMP SECTION (1/4) —

• Refer to page 53 for Waveform.
• Refer to page 98 for IC Block Diagrams.



6-26. SCHEMATIC DIAGRAM — AMP SECTION (2/4) — • Refer to page 98 for IC Block Diagrams.

【AMP BOARD】(2/4)

IC320 AUDIO AMP

IC321 AUDIO AMP

IC306 POWER AMP

IC307 POWER AMP

IC312 POWER AMP

IC318 POWER AMP

IC319 POWER AMP

IC328 POWER AMP

IC311 SUBWOOFER AMP

IC B/D

AMP BOARD (1/4) (Page 76)

AMP BOARD (4/4) (Page 79)

HEADPHONE BOARD CN900 (Page 87)

CN309 4P: HPSW, GND, L+, R+

RY301

RY302

TM301

TM302

TM303

FRONT

SPEAKERS IMPEDANCE USE 4-6Ω

CENTER

J301: AUDIO OUT, SUB WOOFER

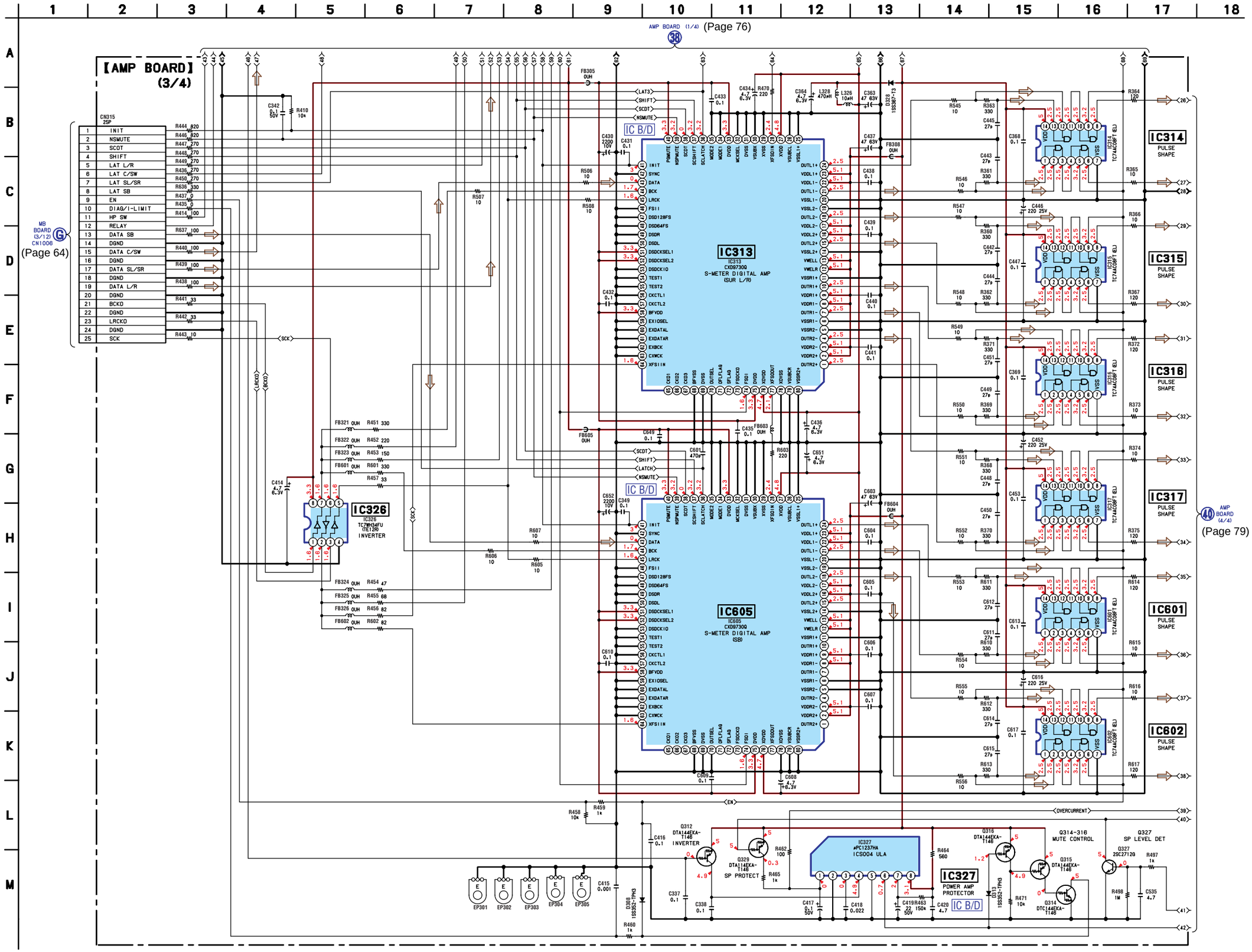
Q317, 318 SP LEVEL CHECK

Q319, 320 SP LEVEL CHECK

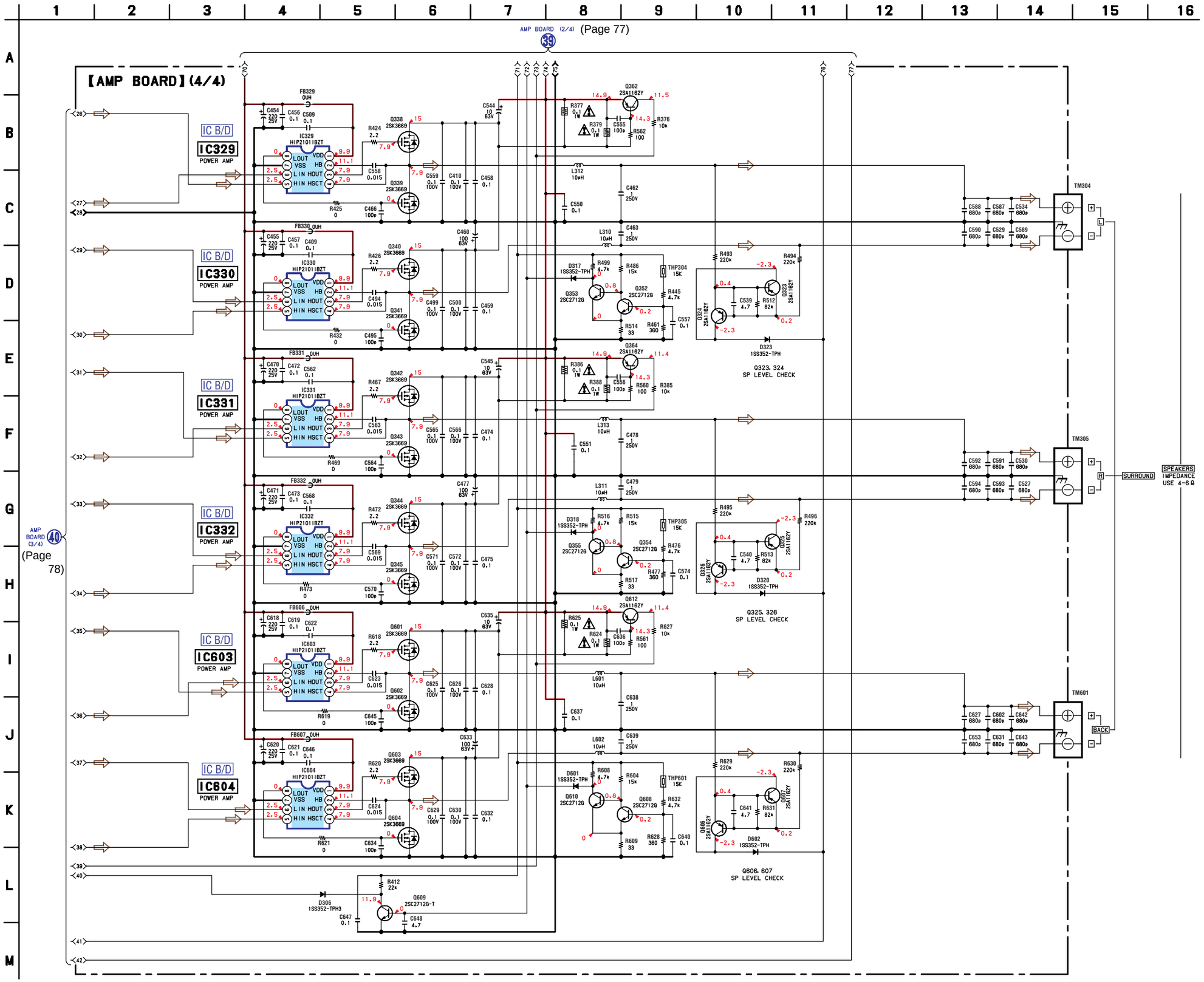
Q321, 322 SP LEVEL CHECK

Q307, 308 RELAY SWITCH

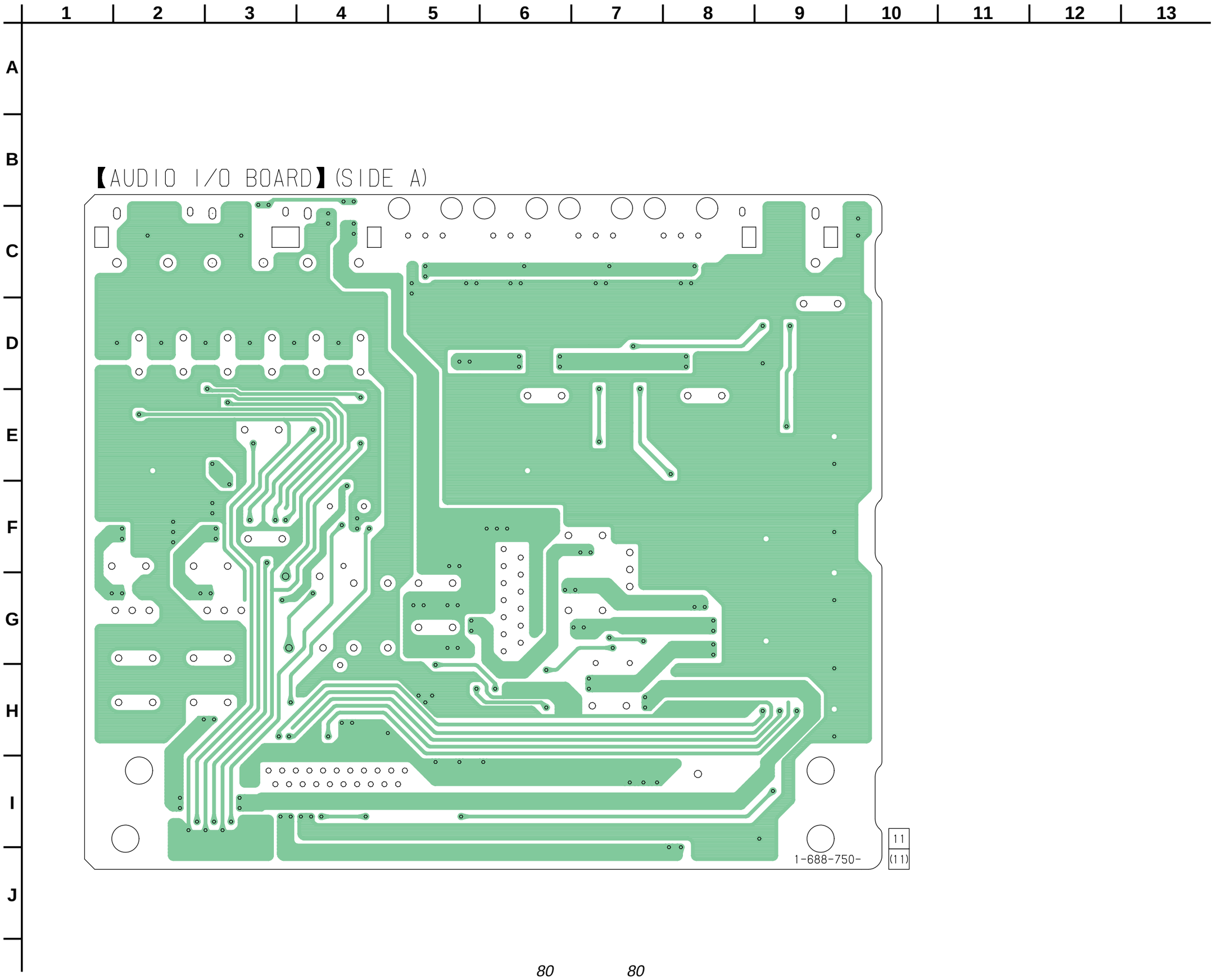
6-27. SCHEMATIC DIAGRAM — AMP SECTION (3/4) — • Refer to page 99 for IC Block Diagrams.



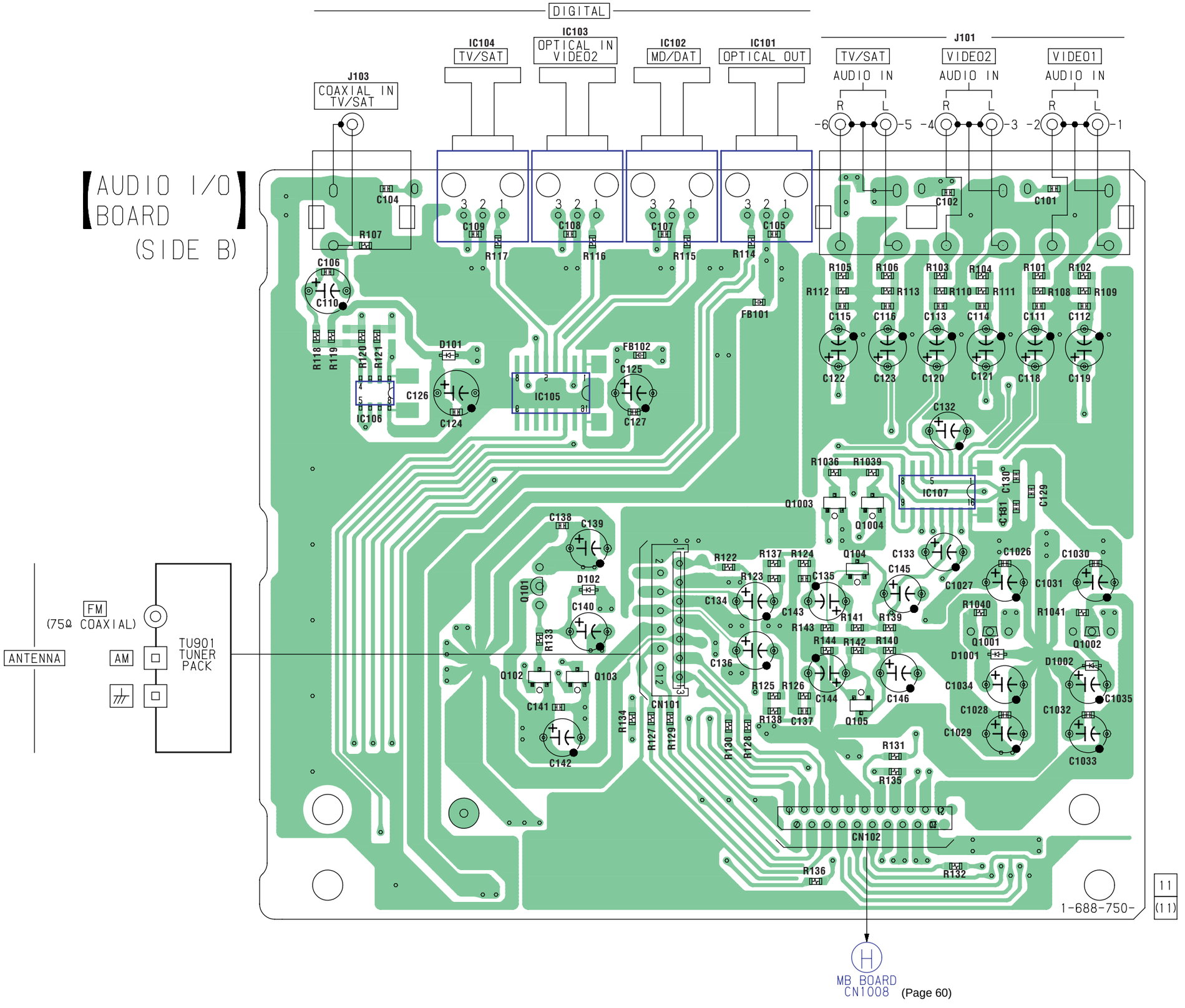
6-28. SCHEMATIC DIAGRAM — AMP SECTION (4/4) — • Refer to page 98 for IC Block Diagrams.



6-29. PRINTED WIRING BOARD — AUDIO I/O SECTION — • Refer to page 51 for Circuit Boards Location. : Uses unleaded solder.



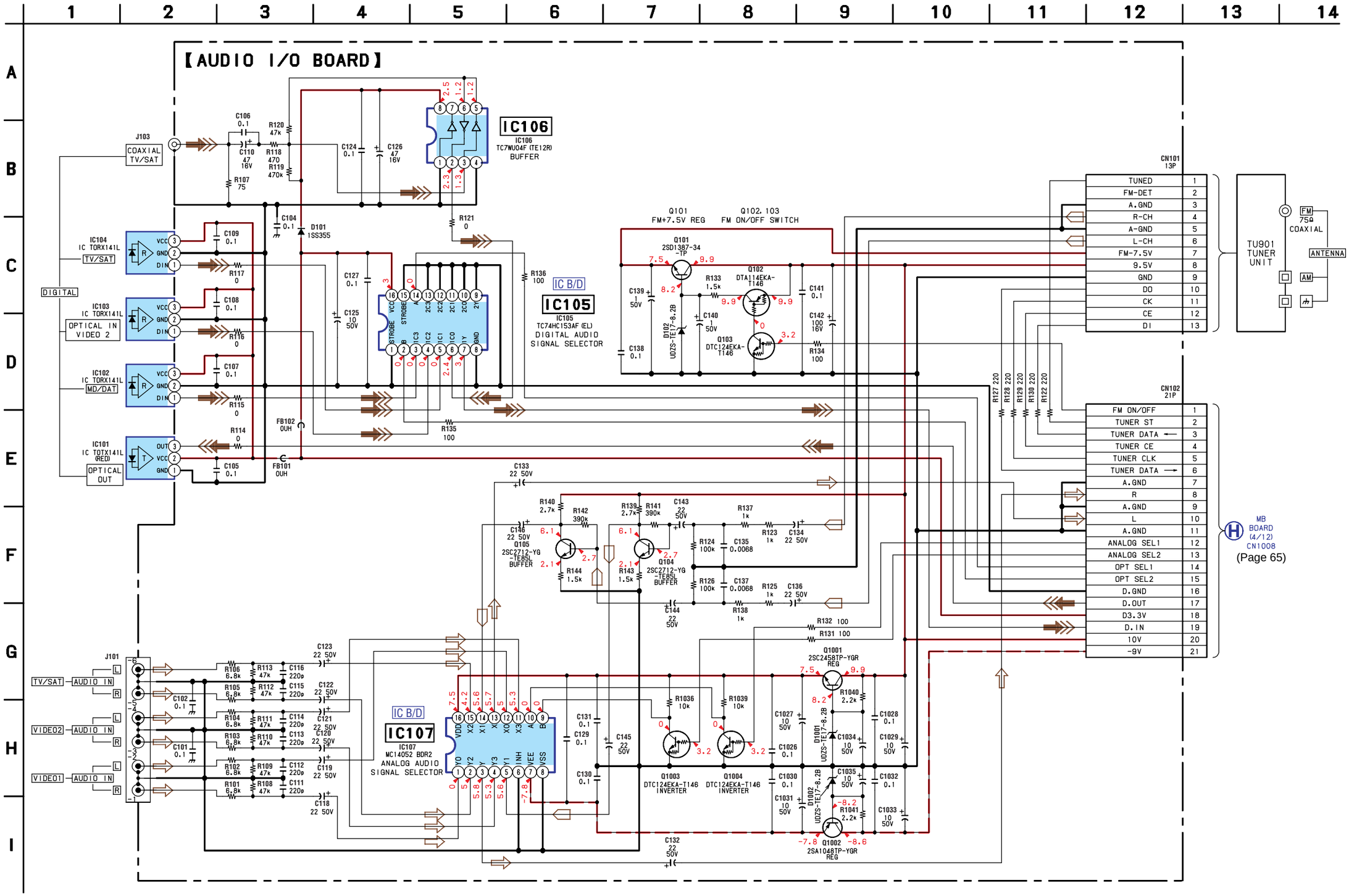
【AUDIO I/O BOARD (SIDE B)】



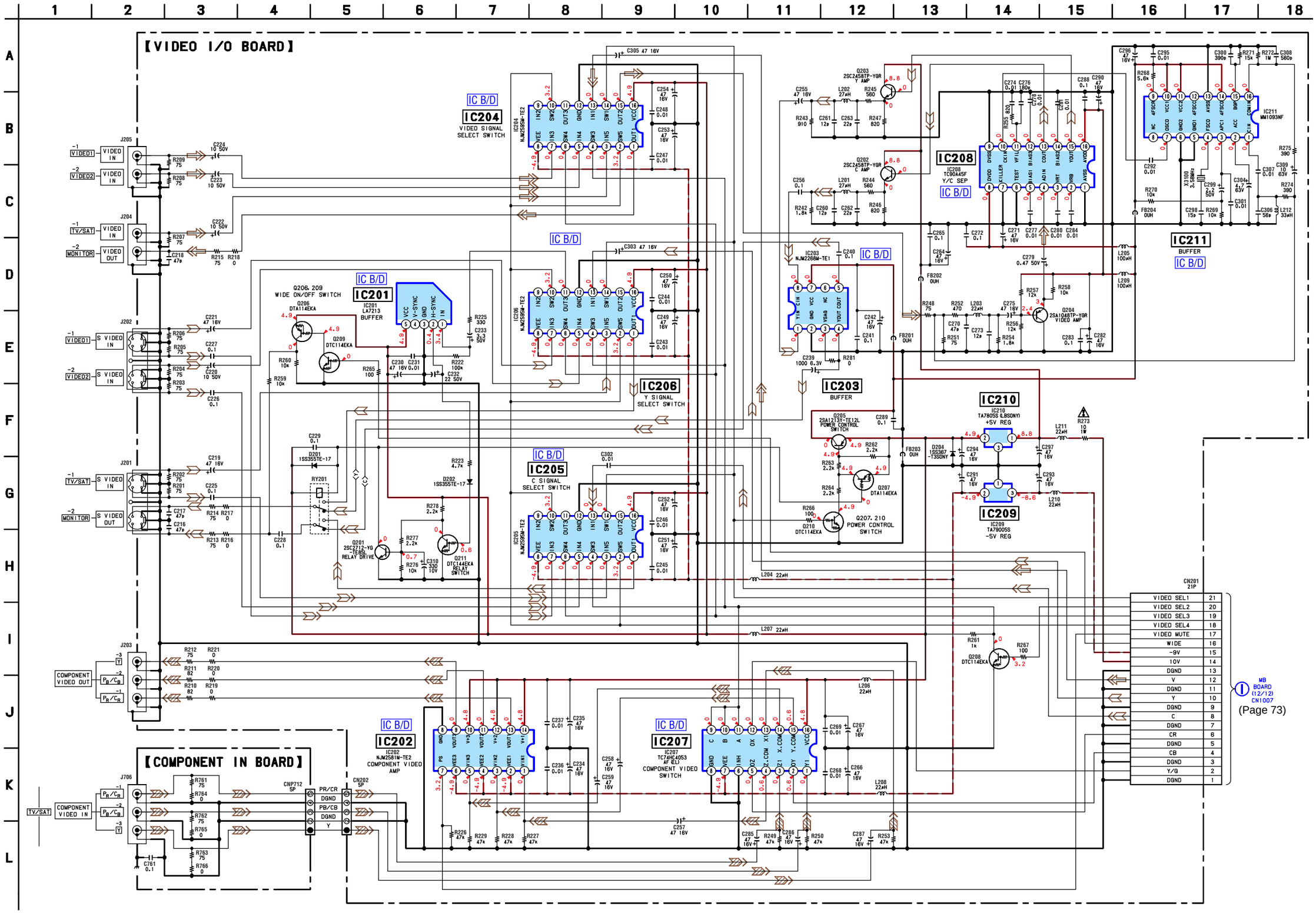
- **Semiconductor Location**

Ref. No.	Location
D101	D-8
D102	F-7
D1001	G-3
D1002	G-2
IC101	A-5
IC102	A-6
IC103	A-7
IC104	A-8
IC105	E-7
IC106	E-9
IC107	F-3
Q101	F-7
Q102	G-7
Q103	G-7
Q104	F-4
Q105	H-4
Q1001	G-3
Q1002	G-2
Q1003	F-4
Q1004	F-4

6-30. SCHEMATIC DIAGRAM — AUDIO I/O SECTION — • Refer to page 100 for IC Block Diagrams.

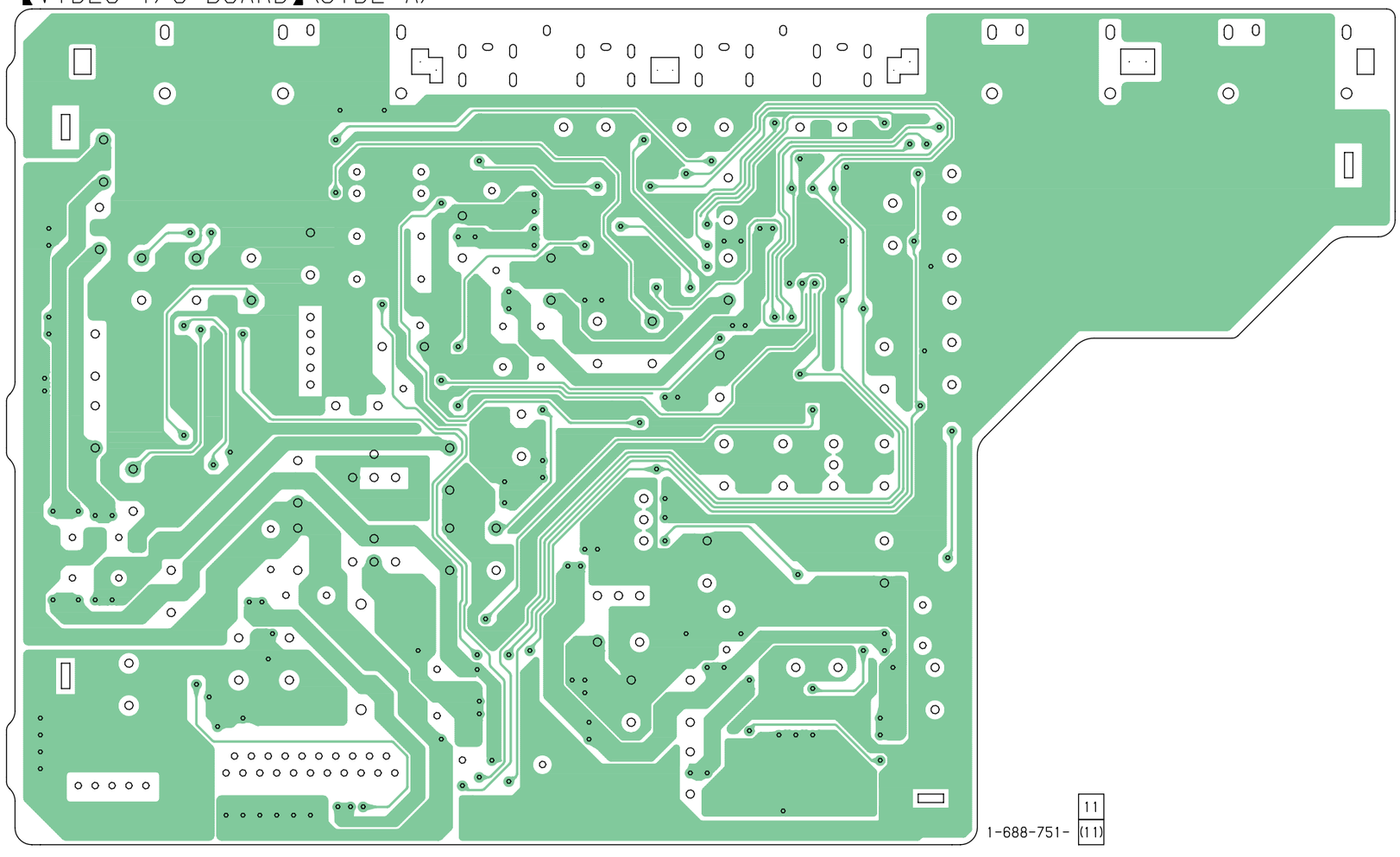


6-31. SCHEMATIC DIAGRAM — VIDEO I/O SECTION — • Refer to page 100 for IC Block Diagrams.

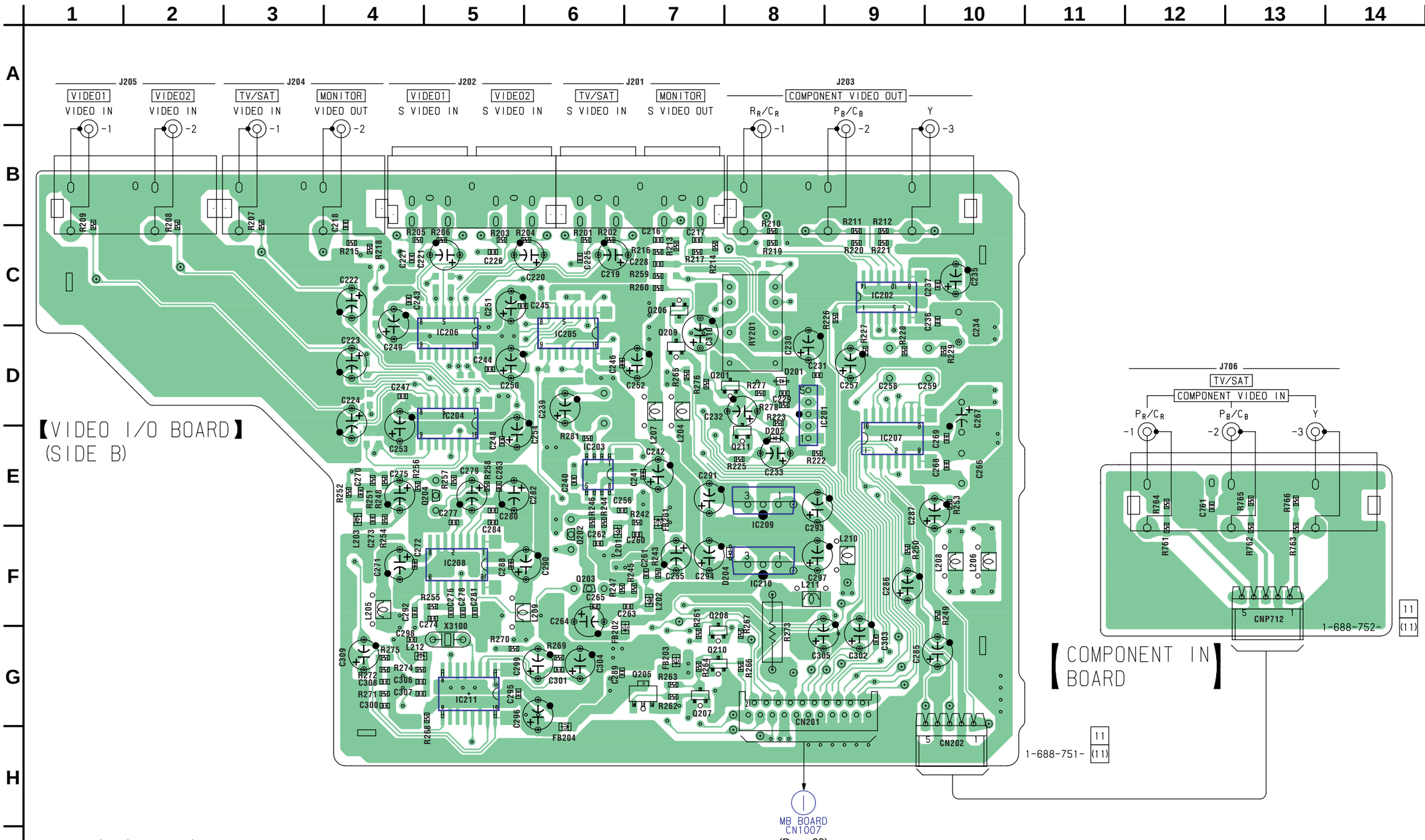


6-32. PRINTED WIRING BOARD — VIDEO I/O SECTION — • Refer to page 51 for Circuit Boards Location. : Uses unleaded solder.

【VIDEO I/O BOARD】(SIDE A)



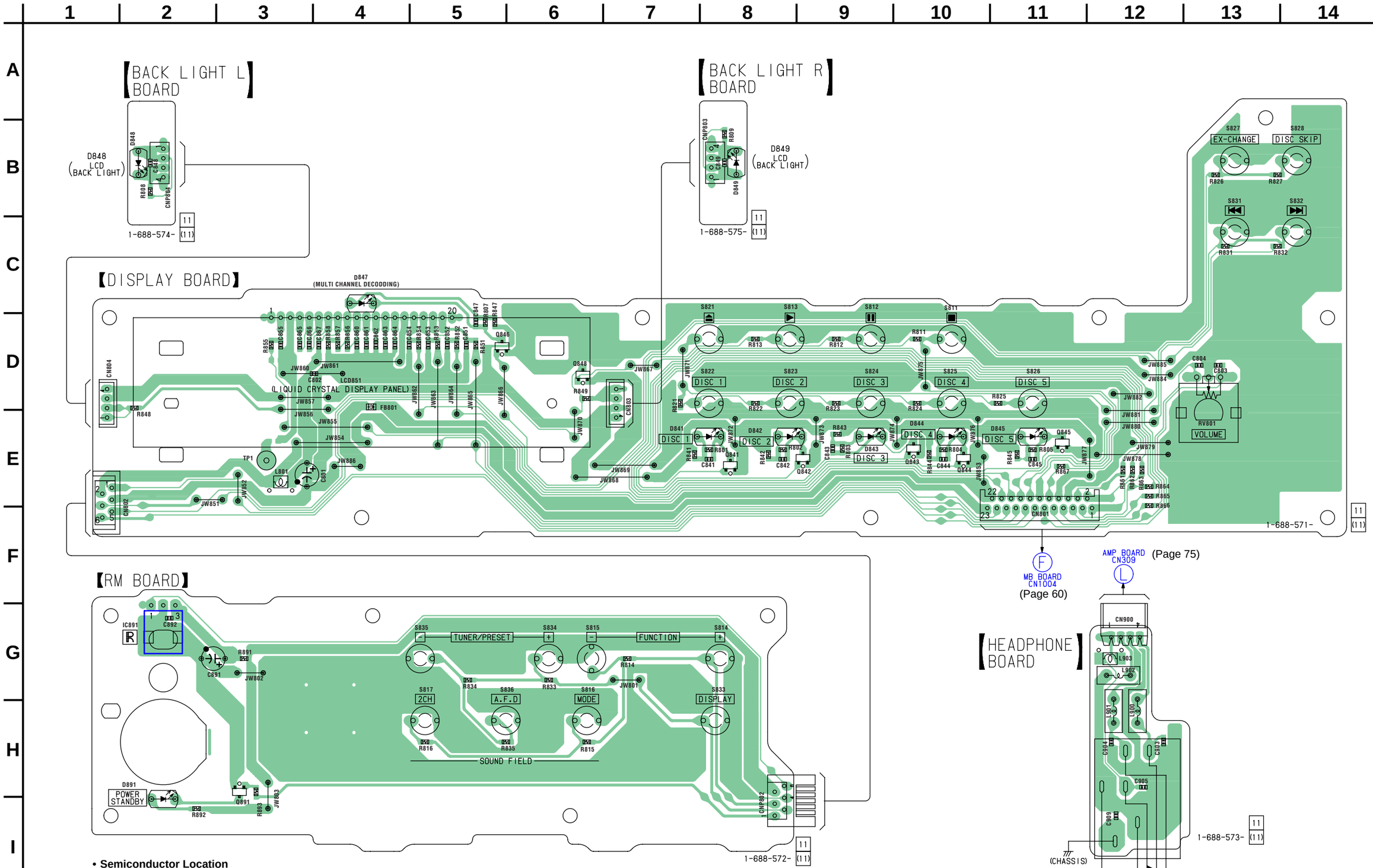
1-688-751- 11 (11)



• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D201	D-8	IC206	D-5	Q203	F-6
D202	E-8	IC207	E-9	Q204	E-5
D204	F-8	IC208	F-5	Q205	G-7
		IC209	E-8	Q206	C-7
IC201	D-8	IC210	F-8	Q207	G-7
IC202	C-9	IC211	G-5	Q208	G-7
IC203	E-6			Q209	D-7
IC204	D-5	Q201	D-8	Q210	G-7
IC205	D-6	Q202	F-6	Q211	E-8

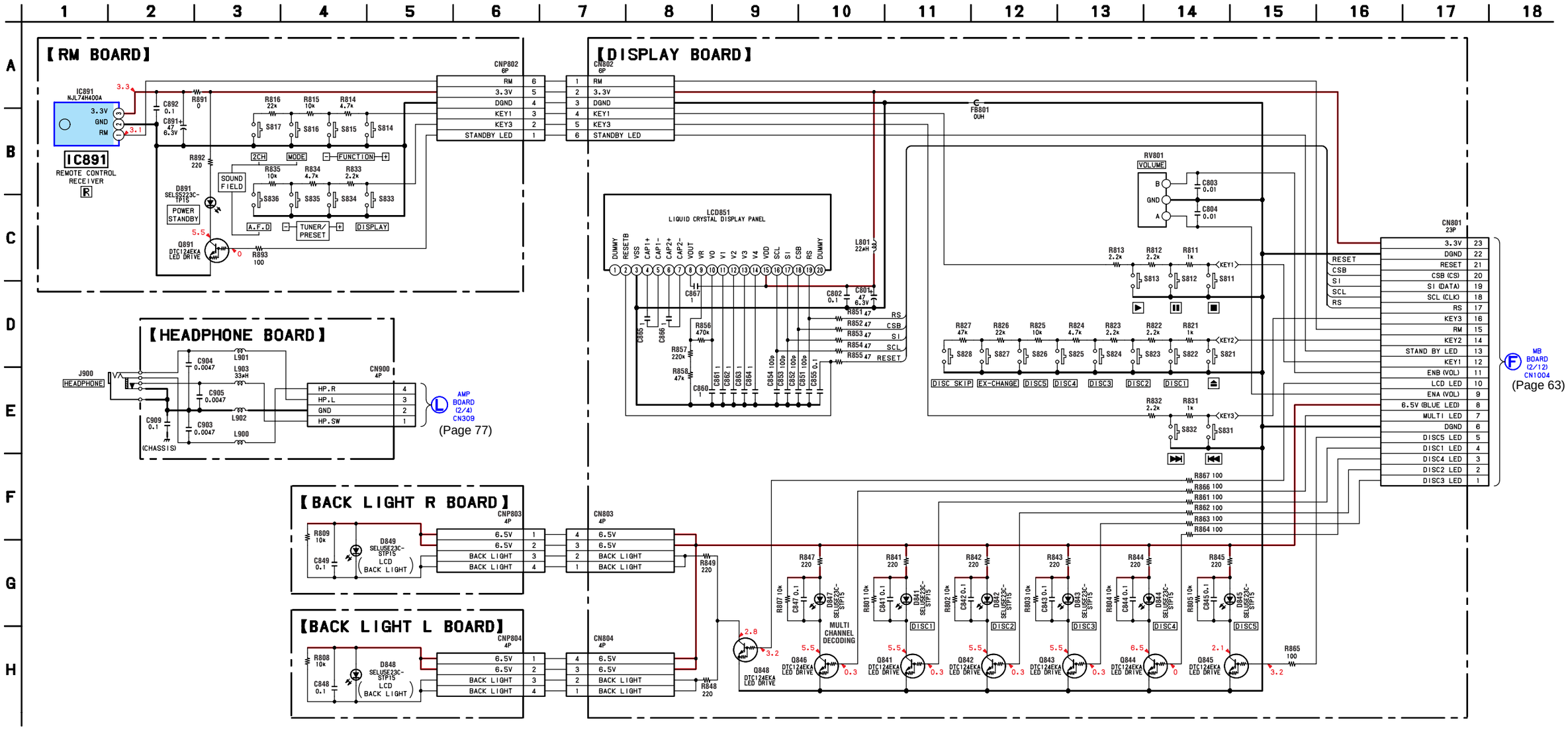
6-33. PRINTED WIRING BOARDS — PANEL SECTION — • Refer to page 51 for Circuit Boards Location. : Uses unleaded solder.



• **Semiconductor Location**

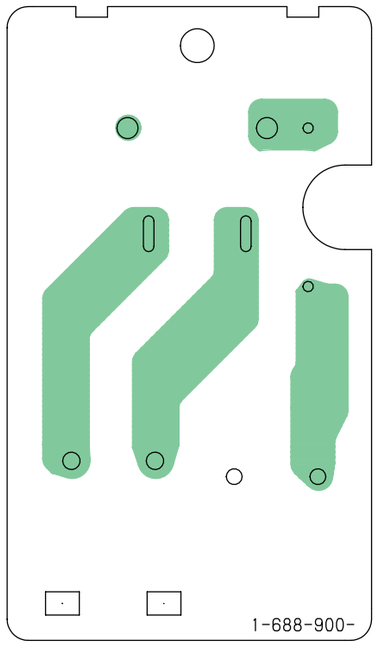
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D841	E-8	D849	B-8	Q843	E-10
D842	E-8	D891	H-2	Q844	E-10
D843	E-9			Q845	E-11
D844	E-10	IC891	G-2	Q846	D-5
D845	E-11			Q848	D-6
D847	C-4	Q841	E-8	Q891	H-3
D848	B-2	Q842	E-9		

6-34. SCHEMATIC DIAGRAM — PANEL SECTION —

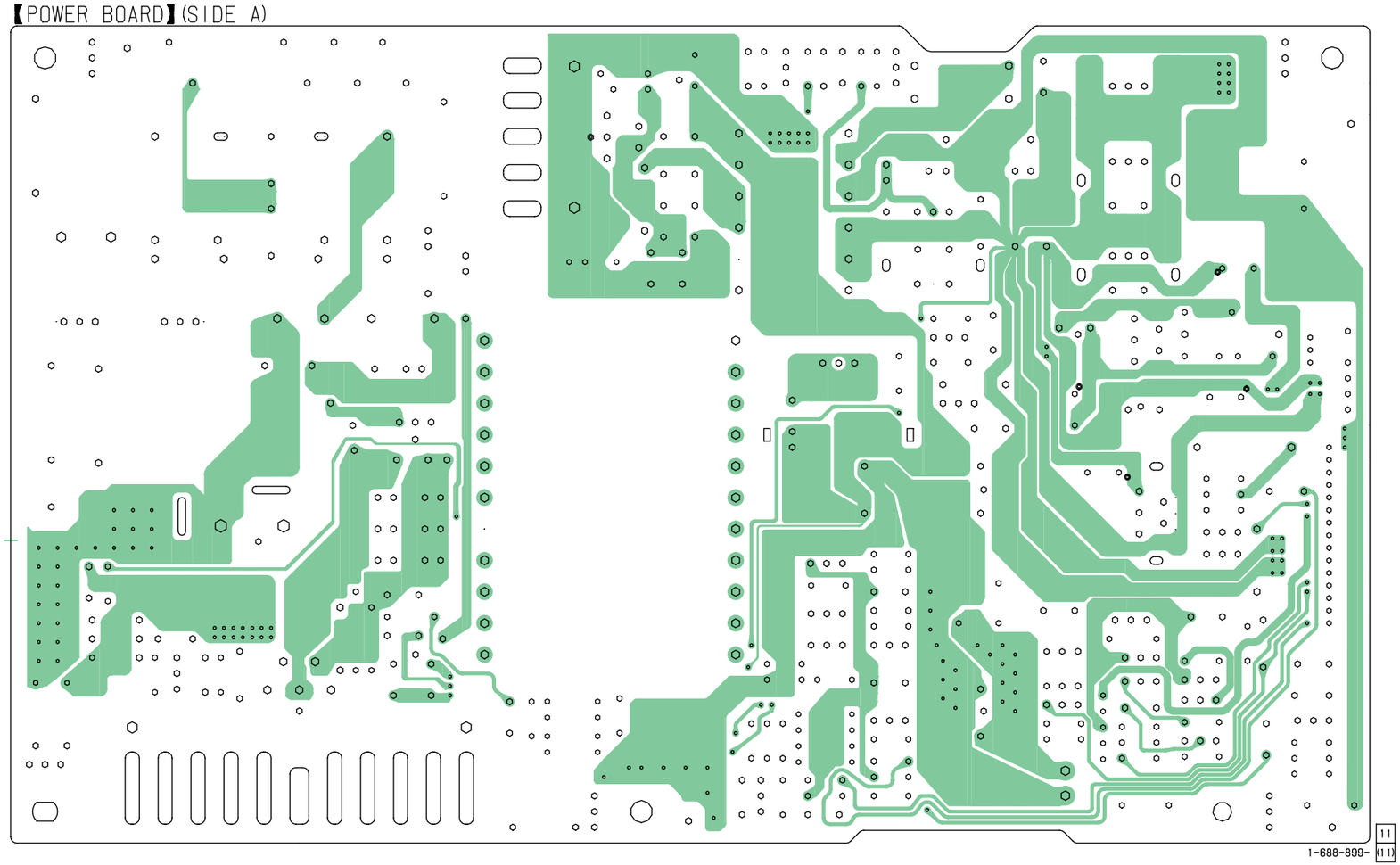


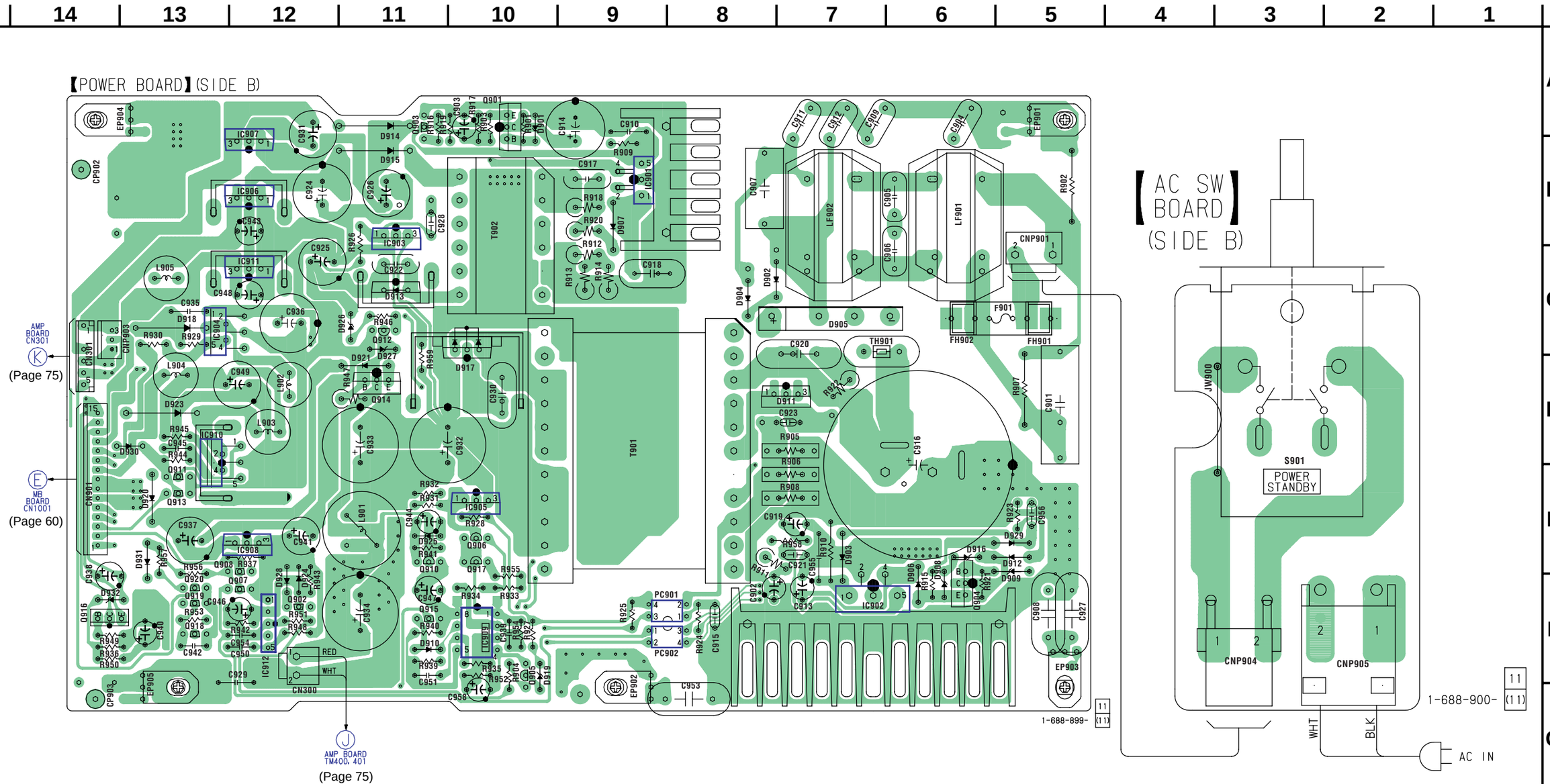
6-35. PRINTED WIRING BOARDS — POWER SECTION — • Refer to page 51 for Circuit Boards Location. : Uses unleaded solder.

【AC SW BOARD】(SIDE A)



【POWER BOARD】(SIDE A)

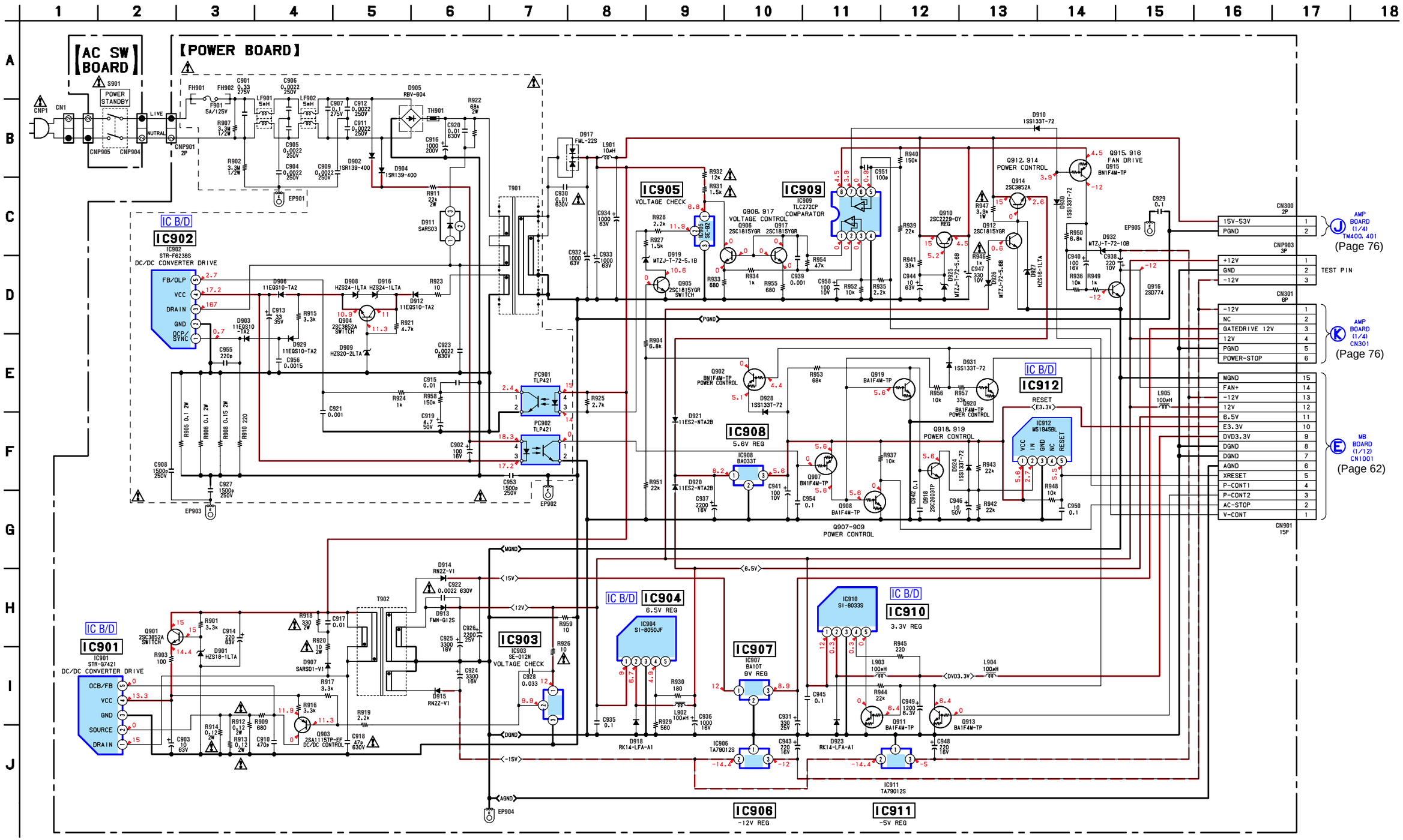




• **Semiconductor Location**

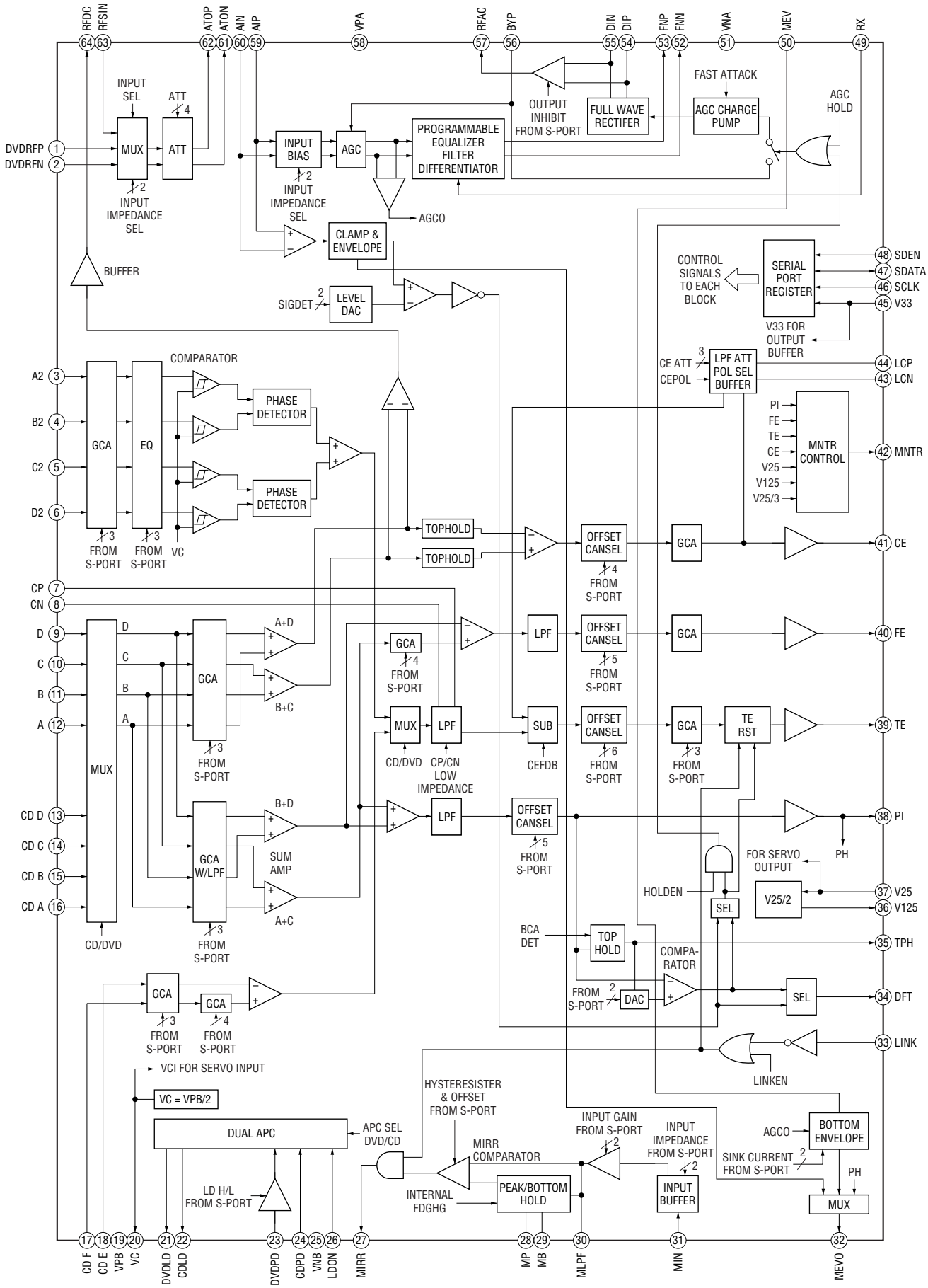
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D901	A-10	D912	E-5	D924	E-12	IC902	F-7	PC901	F-8	Q910	E-11
D902	C-8	D913	C-11	D925	E-11	IC903	B-11	PC902	F-8	Q911	E-13
D903	E-7	D914	A-11	D926	C-11	IC904	C-13			Q912	C-11
D904	C-8	D915	B-11	D927	C-11	IC905	E-10	Q901	A-10	Q913	E-13
D905	C-7	D916	E-6	D928	E-12	IC906	B-12	Q902	F-12	Q914	D-11
D906	F-6	D917	C-10	D929	E-5	IC907	A-12	Q903	A-11	Q915	F-11
D907	B-9	D918	C-13	D930	D-13	IC908	E-12	Q904	F-6	Q916	F-14
D908	F-6	D919	F-9	D931	E-13	IC909	F-10	Q905	F-9	Q917	E-10
D909	E-5	D920	E-13	D932	F-14	IC910	D-13	Q906	E-10	Q918	F-13
D910	F-11	D921	D-11			IC911	C-12	Q907	F-12	Q919	F-13
D911	D-7	D923	D-13	IC901	B-9	IC912	F-12	Q908	E-12	Q920	F-13

6-36. SCHEMATIC DIAGRAM — POWER SECTION — • Refer to page 102 for IC Block Diagrams.

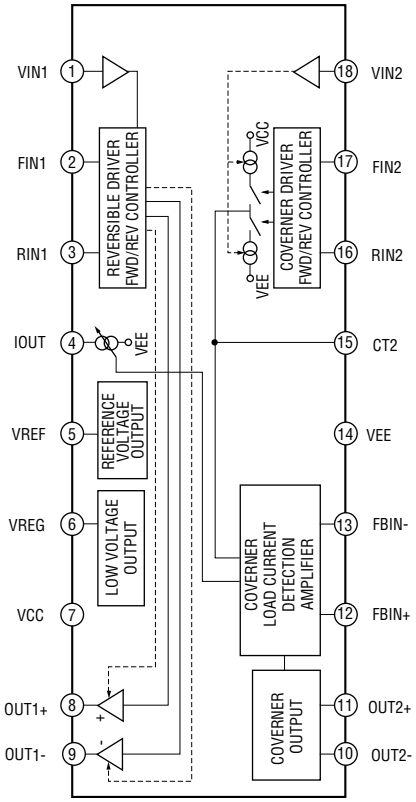


6-37. IC BLOCK DIAGRAMS

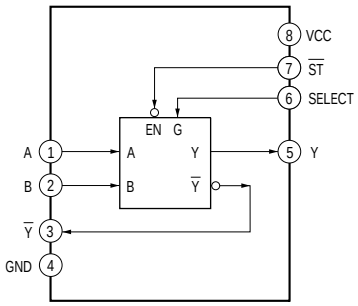
IC001 CXD1881AR (RF Board)



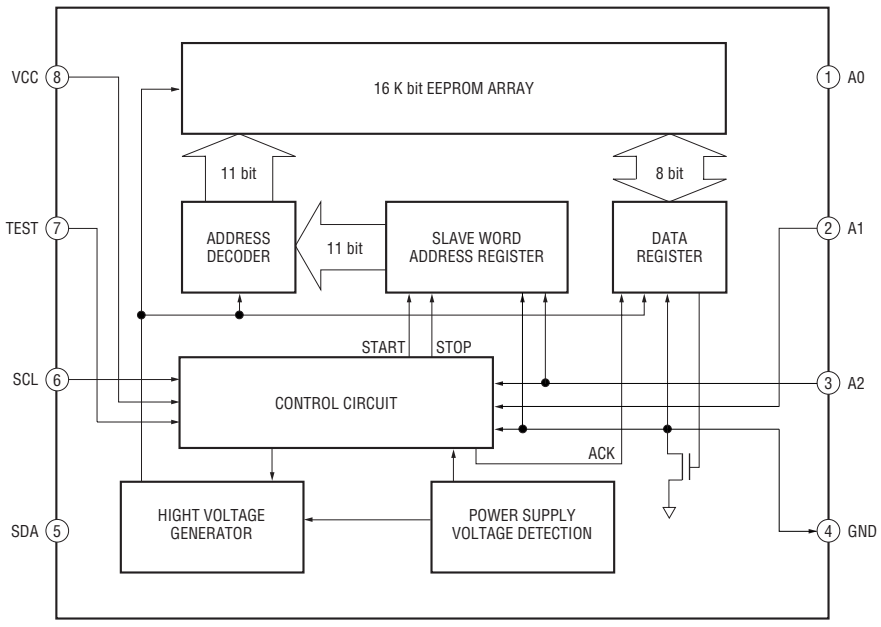
IC701 BA6780 (LINK Board)



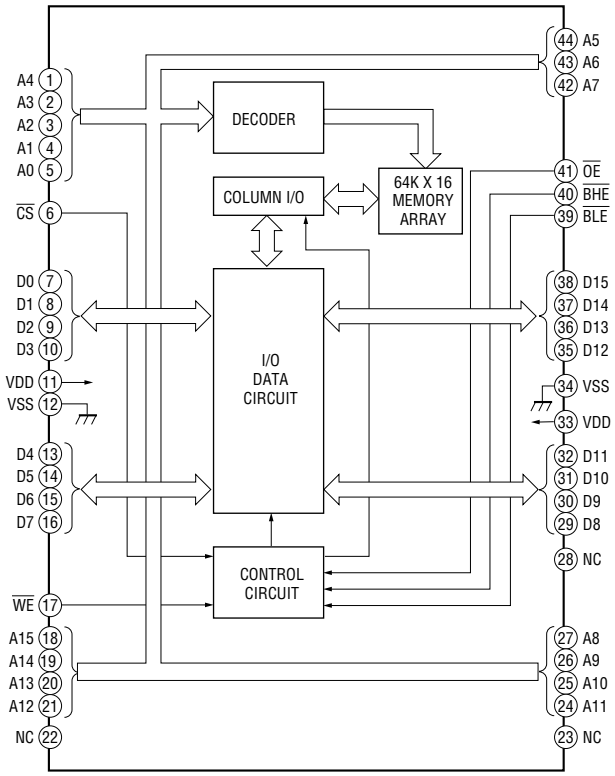
IC1008 TC7WH157FK (MB Board)
IC1014 TC7WH157FK (MB Board)
IC1033 TC7WH157FK (MB Board)



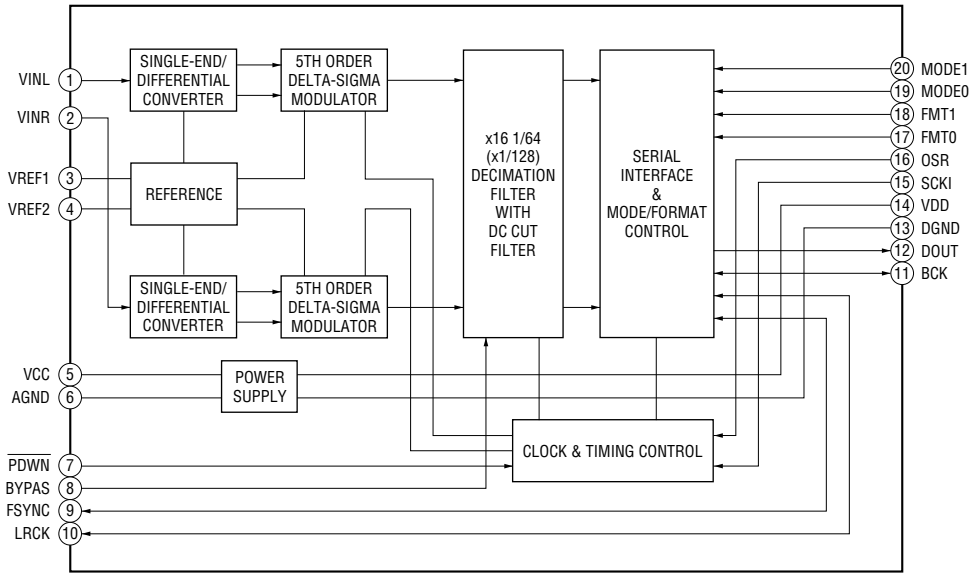
IC1016 BR24L16F-WE2 (MB Board)
IC1028 BR24L16F-WE2 (MB Board)



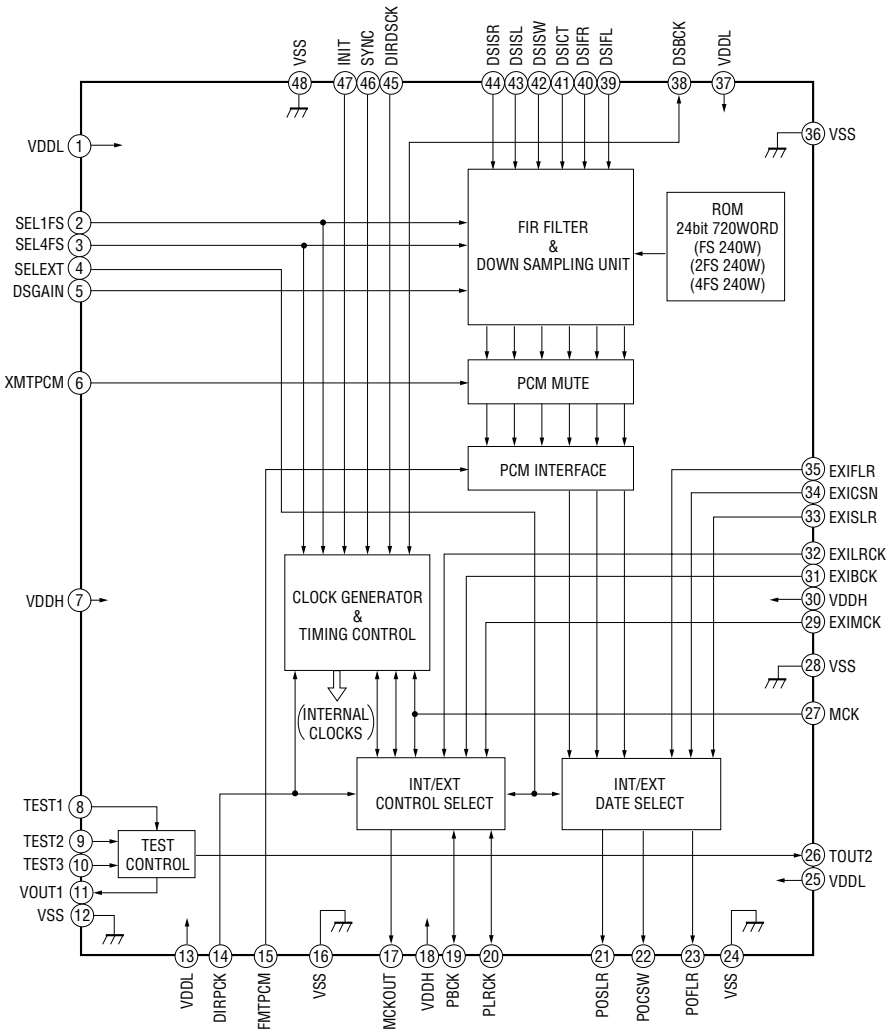
IC1012 IC61LV6416-15TG (MB Board)



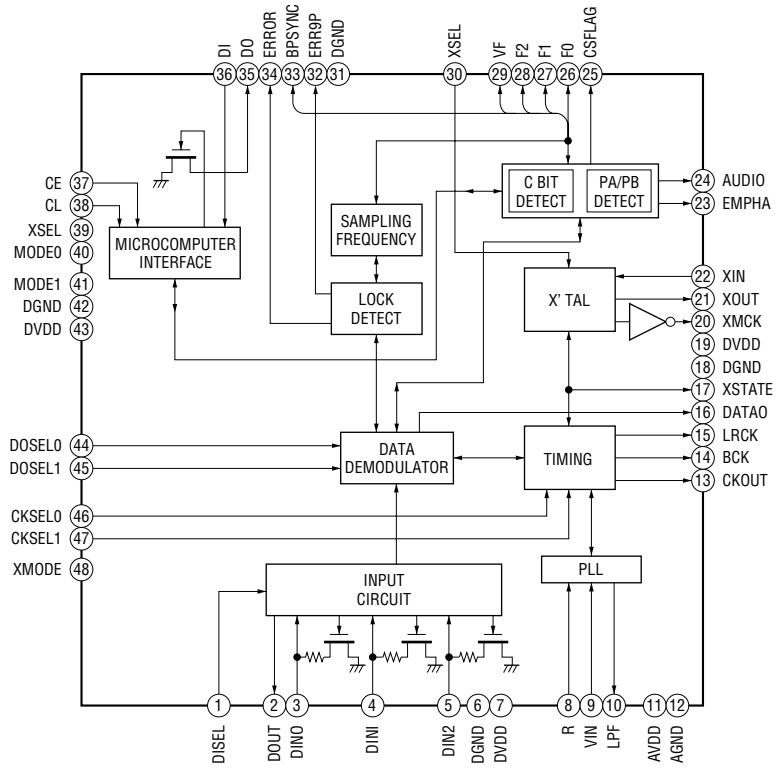
IC1017 PCM1802DBR (MB Board)



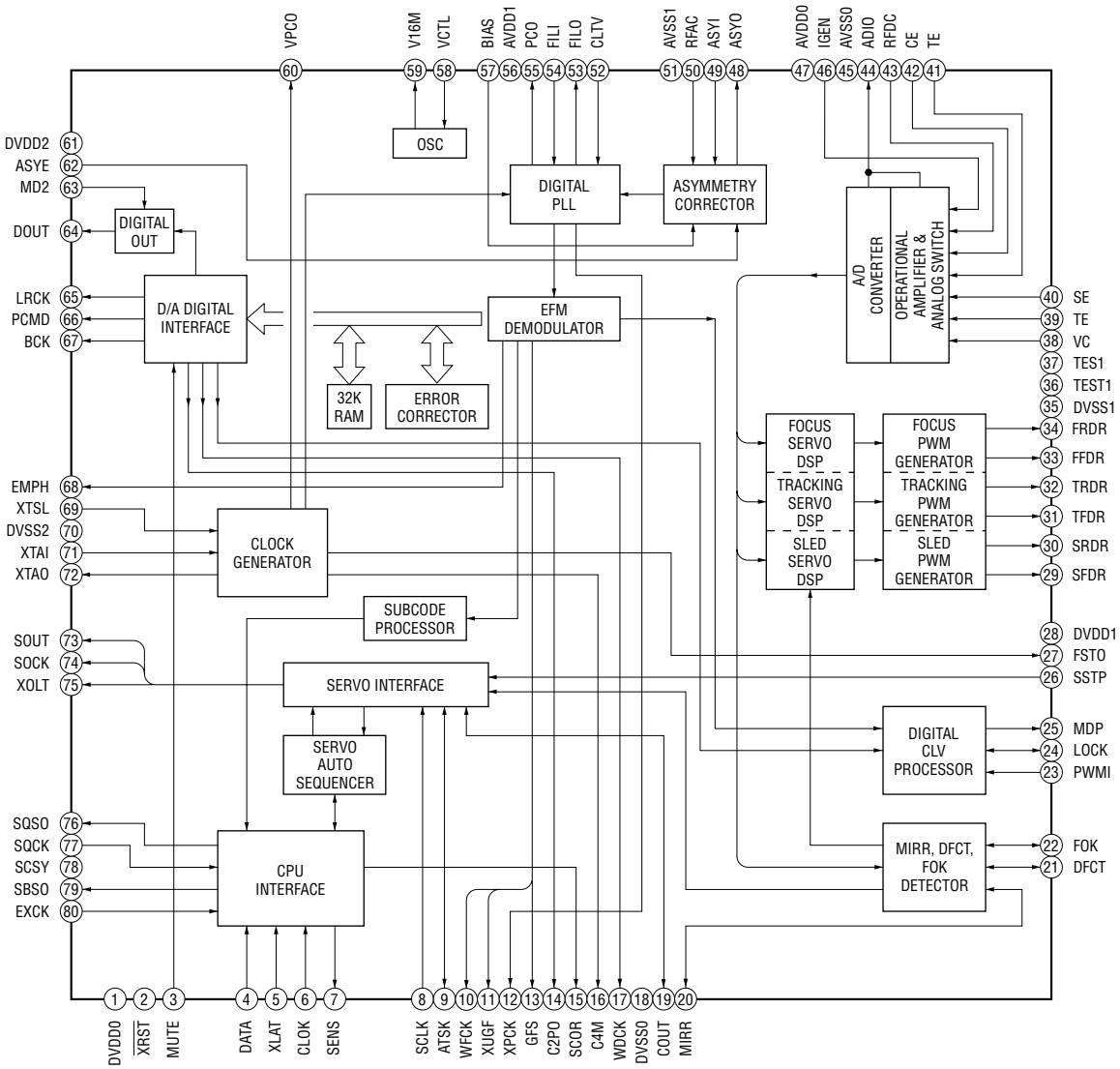
IC1009 CXD9742Q (MB Board)



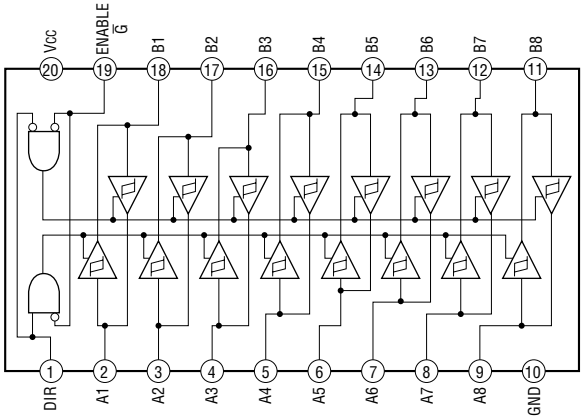
IC1010 LC89056W-E (MB Board)



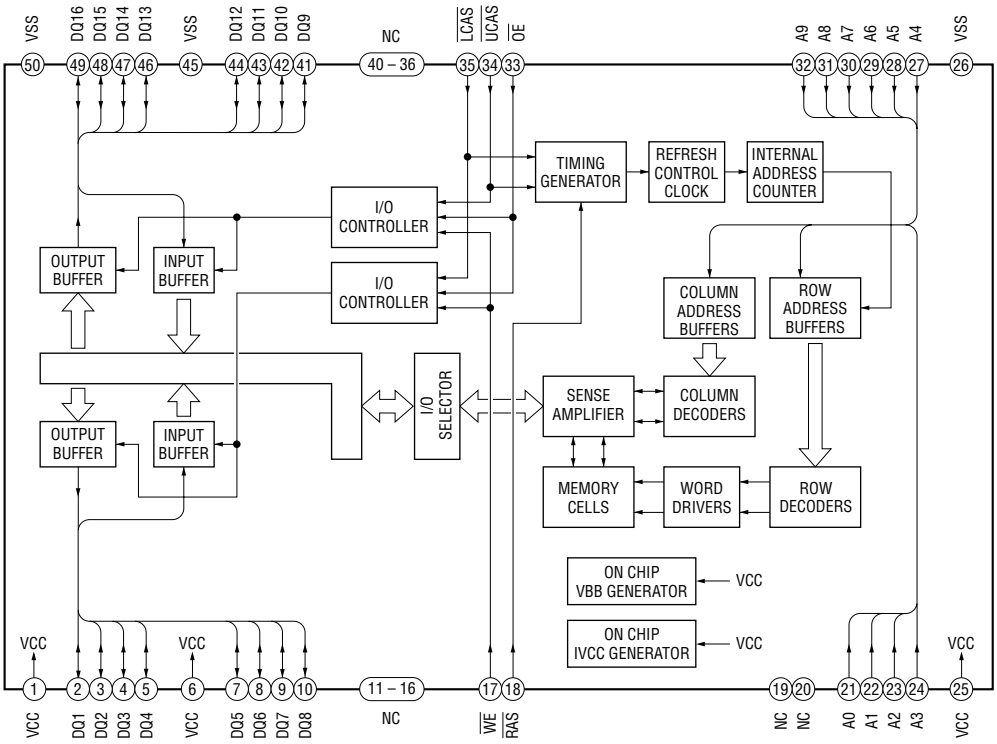
IC1025 CXD3068Q (MB Board)



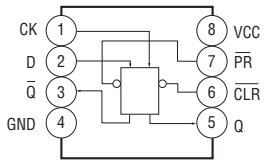
IC1031 SN74LV245APWR (MB Board)
IC1032 SN74LV245APWR (MB Board)



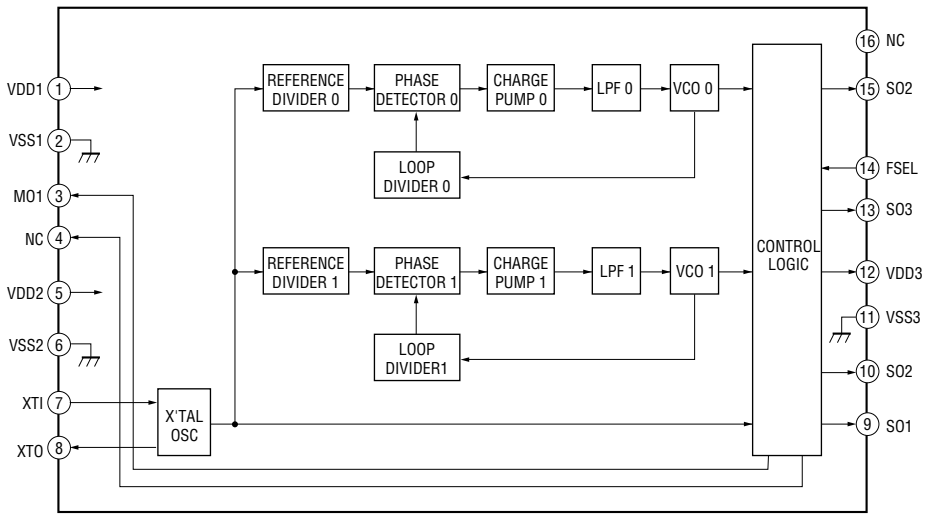
IC1030 MSM51V18165F-60TSKR1 (MB Board)



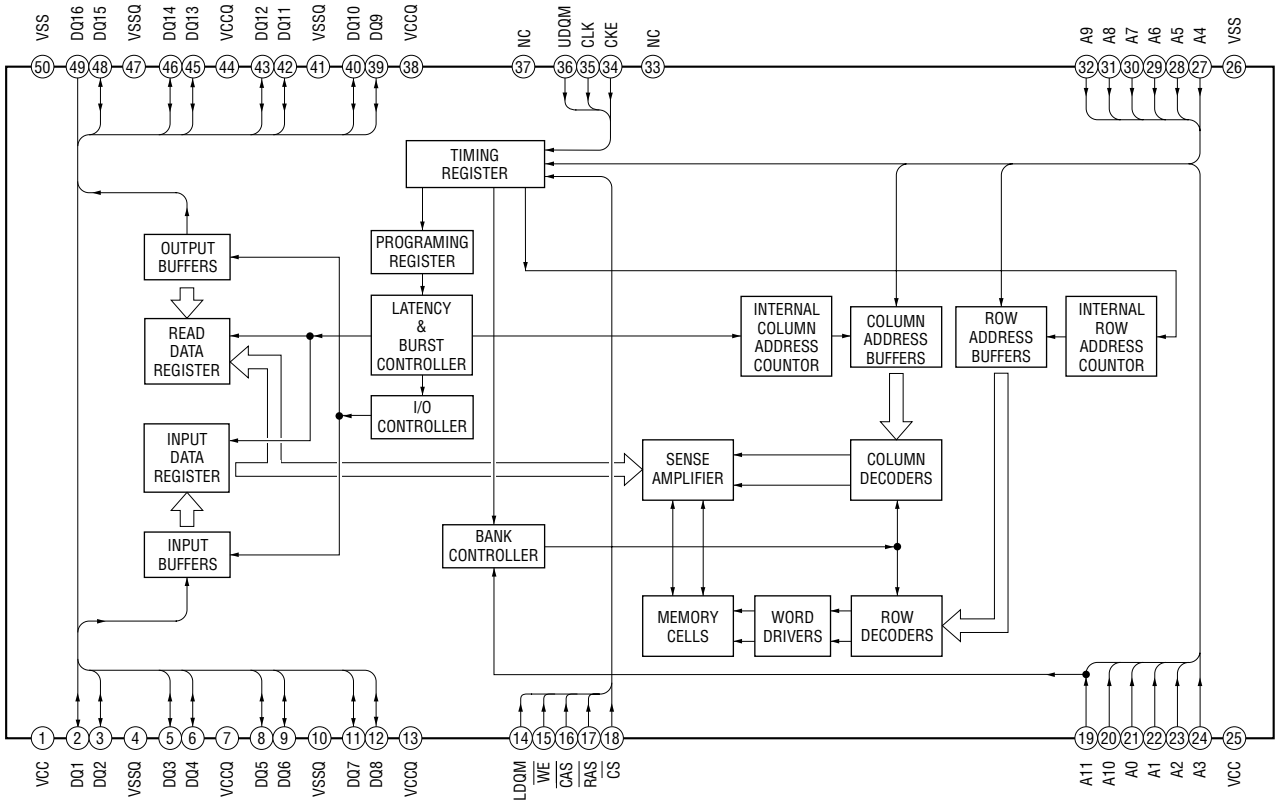
IC1037 TC7W74FK (MB Board)



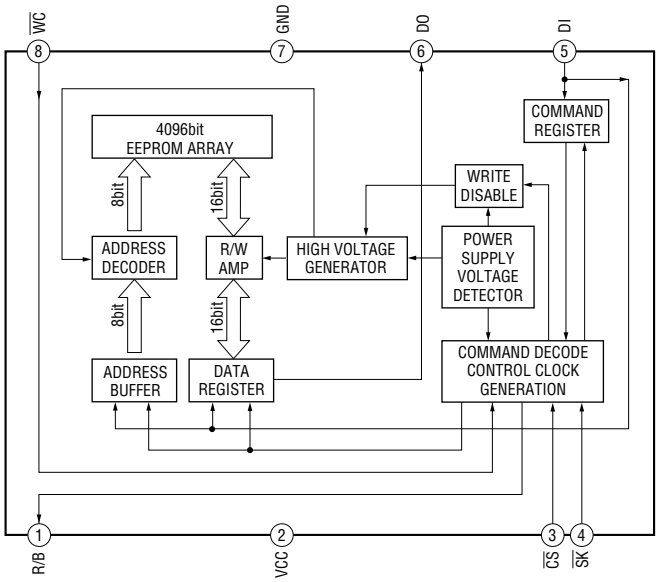
IC1039 SM8707GV-G-E2 (MB Board)



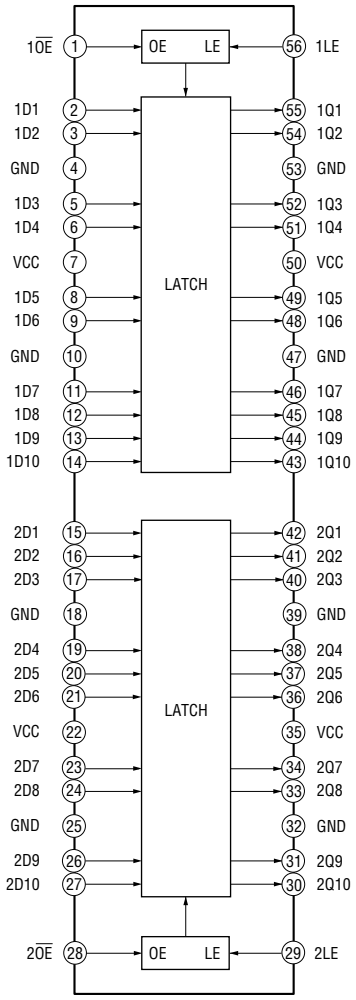
IC1034 MSM56V16160F-8TK7R1 (MB Board)



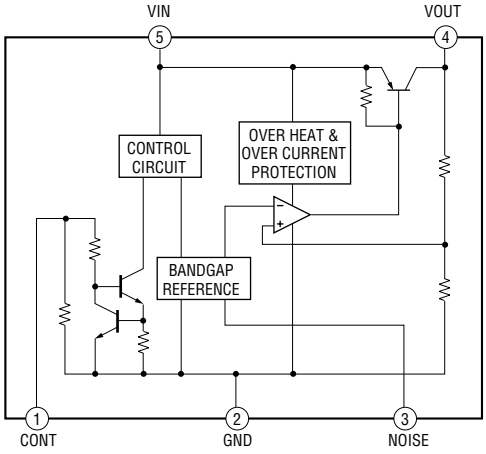
IC1040 BR9040F (MB Board)



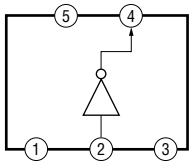
IC1042 SN74ALVCH16841DGGR (MB Board)



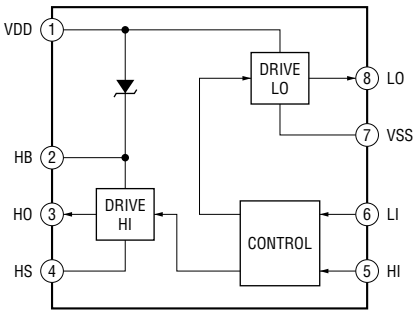
IC1051 TK11125CSCL-G (MB Board)



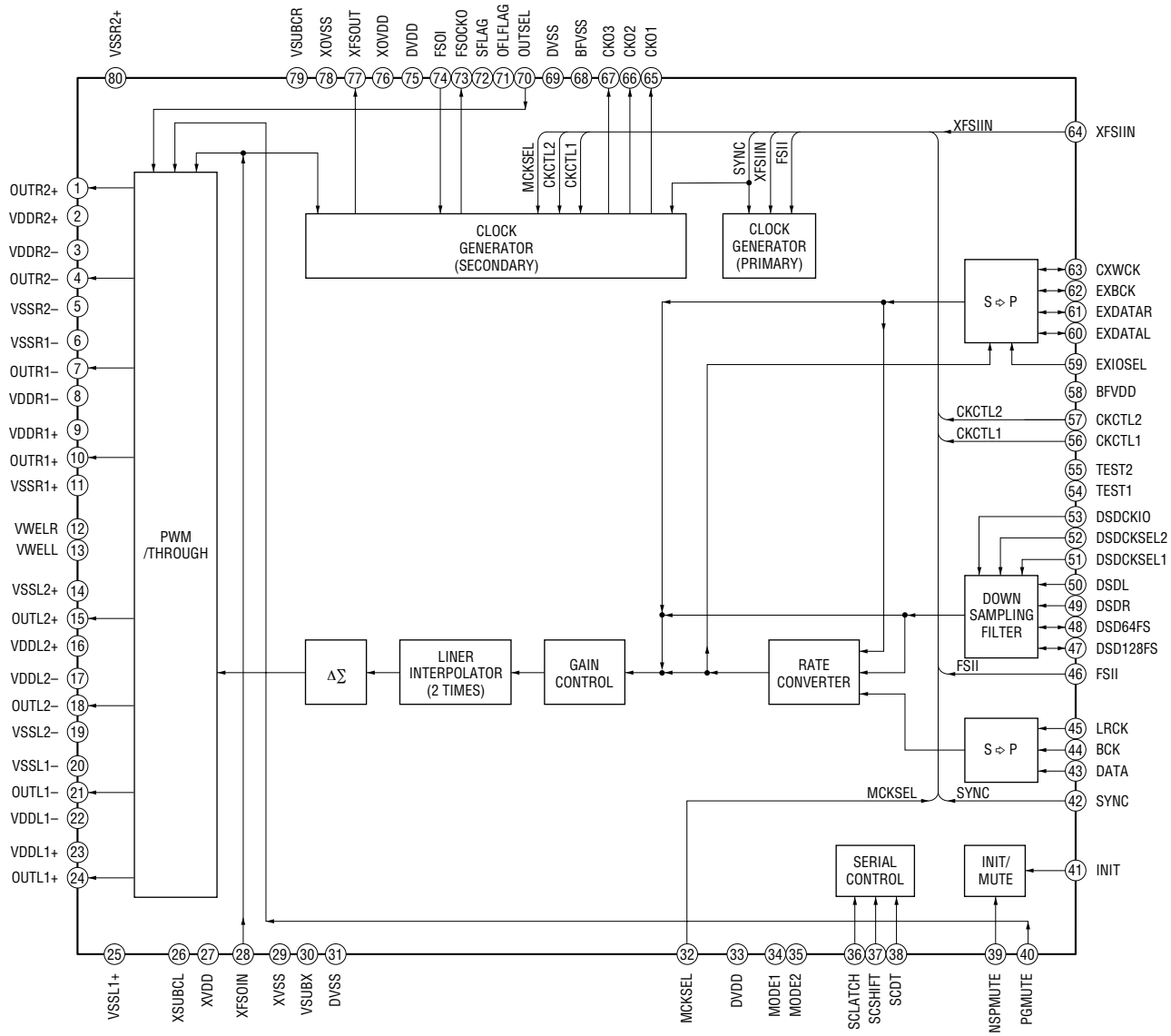
IC325 TC7SHU04FU-TE85R (AMP Board)



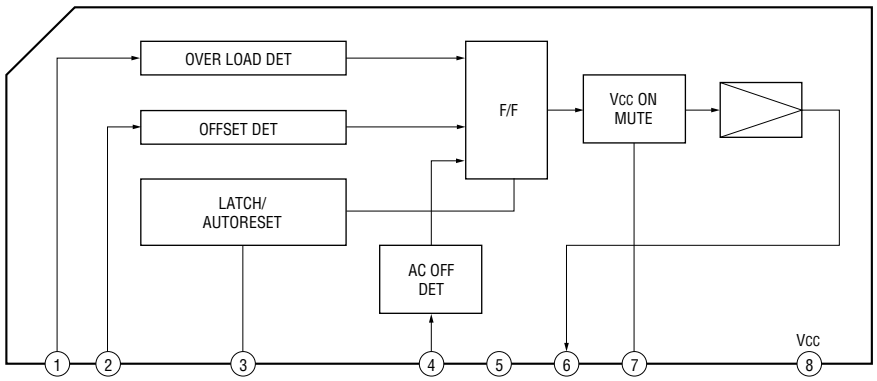
IC306 HIP2101IBZT (AMP Board)
IC307 HIP2101IBZT (AMP Board)
IC312 HIP2101IBZT (AMP Board)
IC318 HIP2101IBZT (AMP Board)
IC319 HIP2101IBZT (AMP Board)
IC328 HIP2101IBZT (AMP Board)
IC329 HIP2101IBZT (AMP Board)
IC330 HIP2101IBZT (AMP Board)
IC331 HIP2101IBZT (AMP Board)
IC332 HIP2101IBZT (AMP Board)
IC603 HIP2101IBZT (AMP Board)
IC604 HIP2101IBZT (AMP Board)



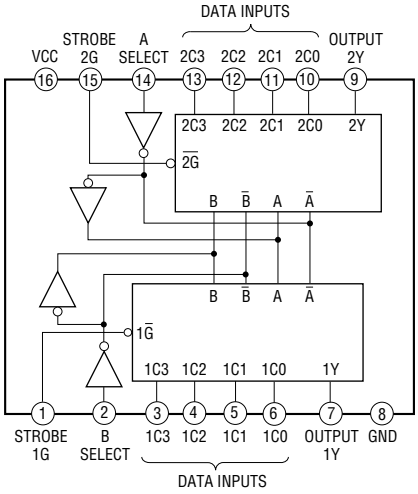
IC301 CXD9730Q (AMP Board)
IC308 CXD9730Q (AMP Board)
IC313 CXD9730Q (AMP Board)
IC605 CXD9730Q (AMP Board)



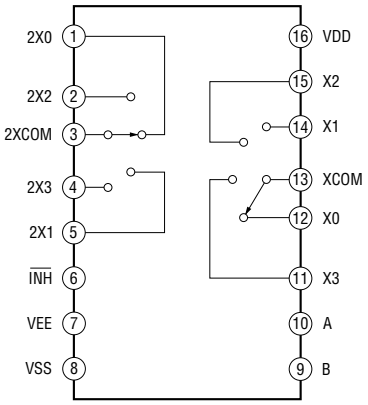
IC327 µPC1237HA (AMP Board)



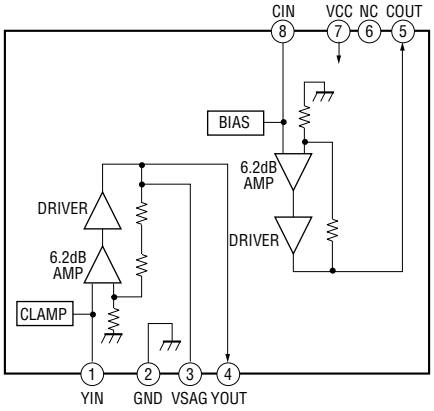
IC105 TC74HC153AF(EL) (AUDIO I/O Board)



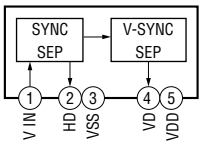
IC107 MC14052BDR2 (AUDIO I/O Board)



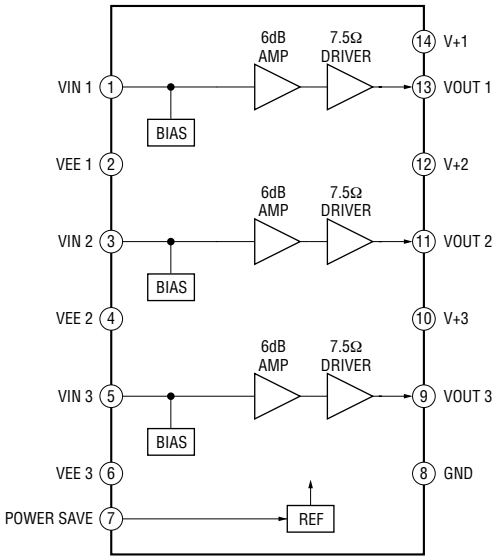
IC203 NJM2268M-TE1 (VIDEO I/O Board)



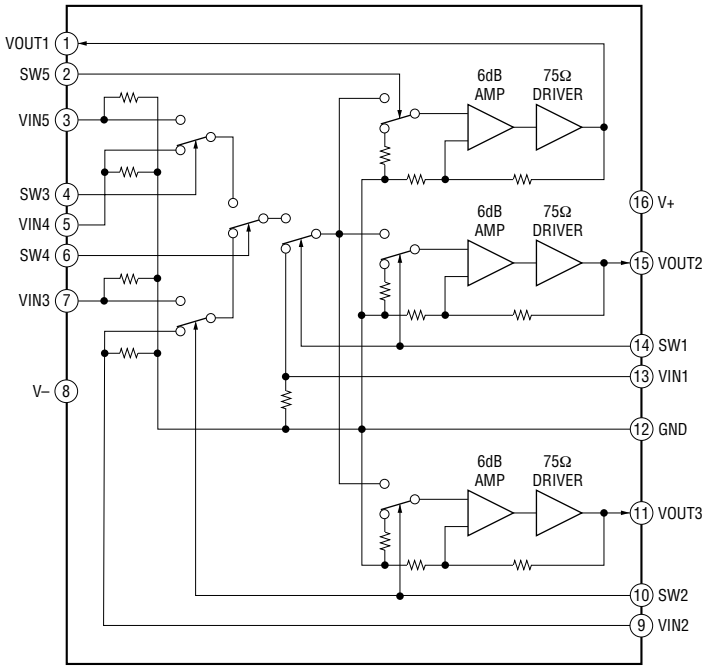
IC201 LA7213 (VIDEO I/O Board)



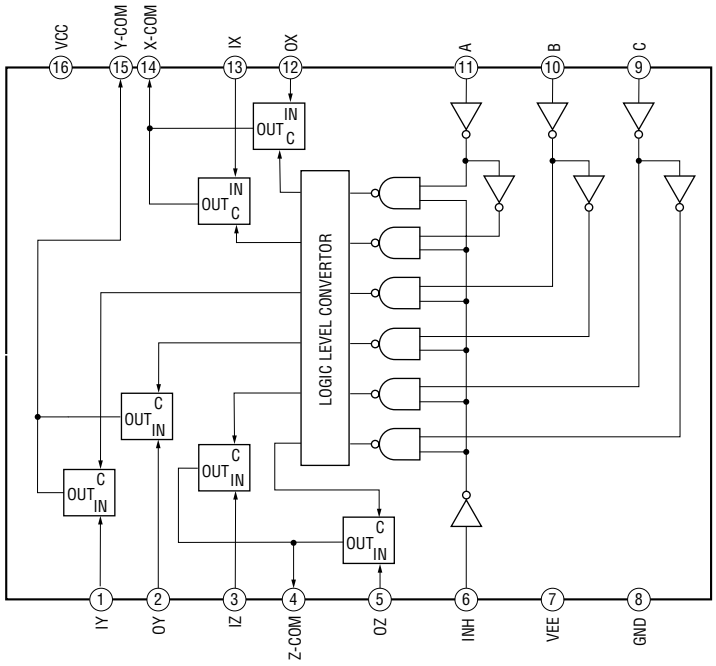
IC202 NJM2581M-TE2 (VIDEO I/O Board)



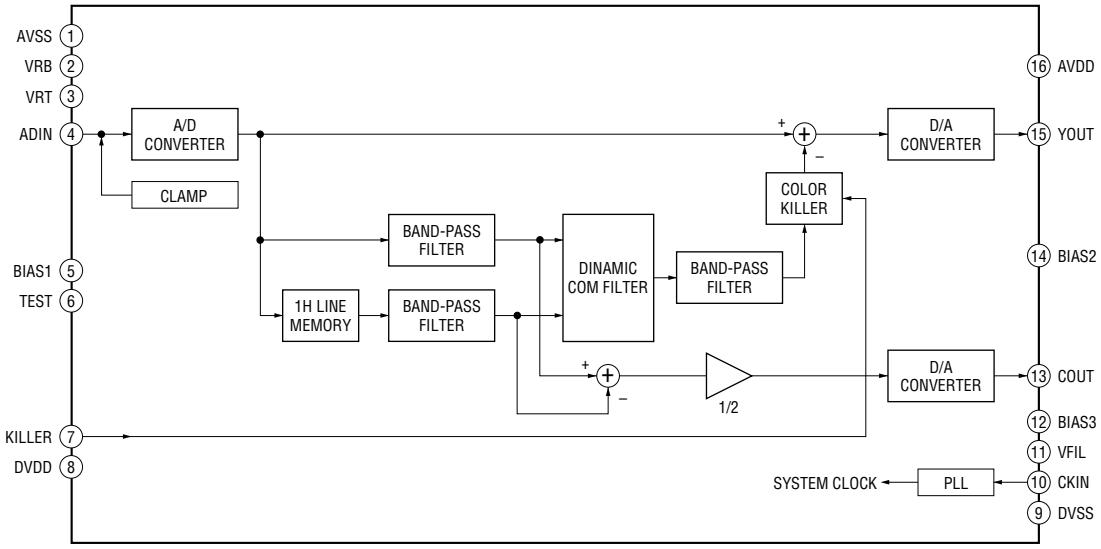
IC204 NJM2595M-TE2 (VIDEO I/O Board)
IC205 NJM2595M-TE2 (VIDEO I/O Board)
IC206 NJM2595M-TE2 (VIDEO I/O Board)



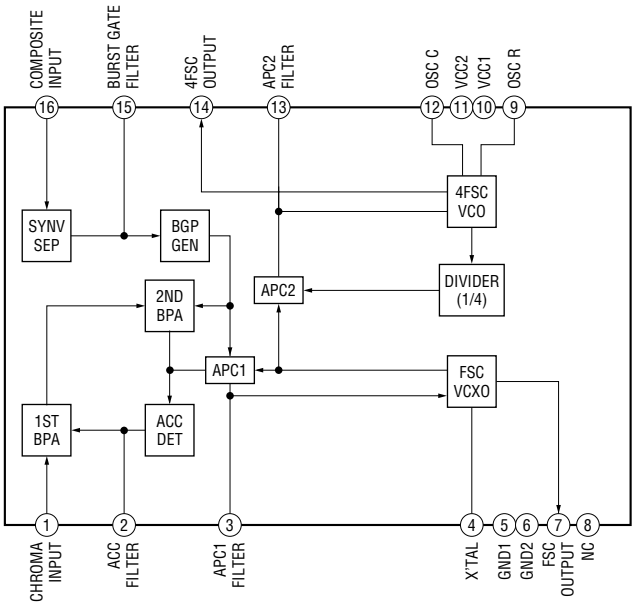
IC207 TC74HC4053AF(EL) (VIDEO I/O Board)



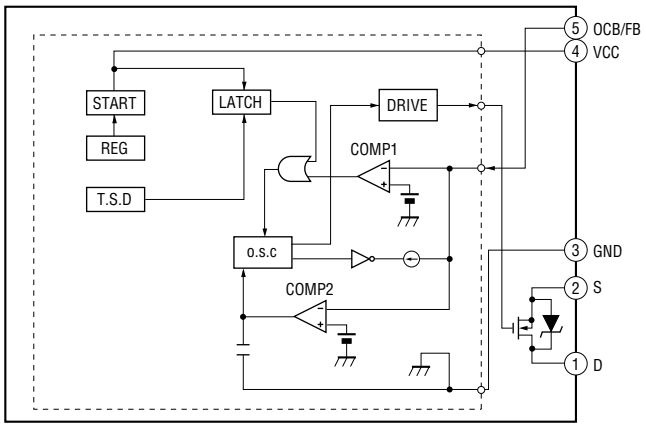
IC208 TC90A45F (VIDEO I/O Board)



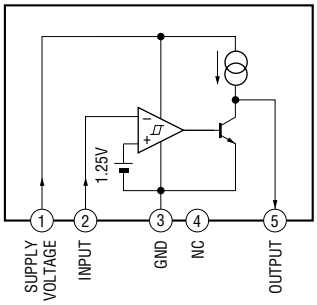
IC211 MM1093NF (VIDEO I/O Board)



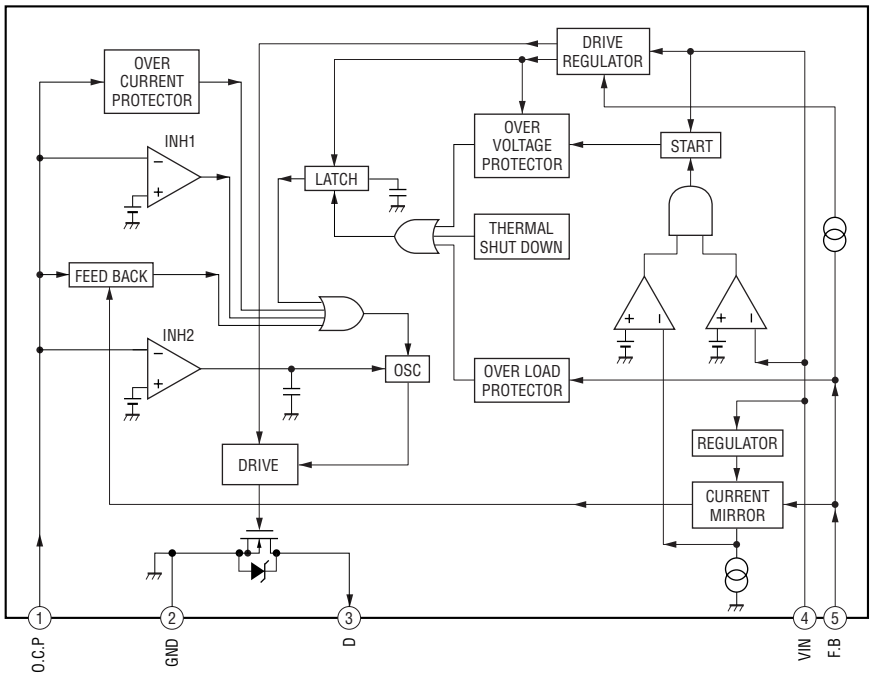
IC901 STR-G7421 (POWER Board)



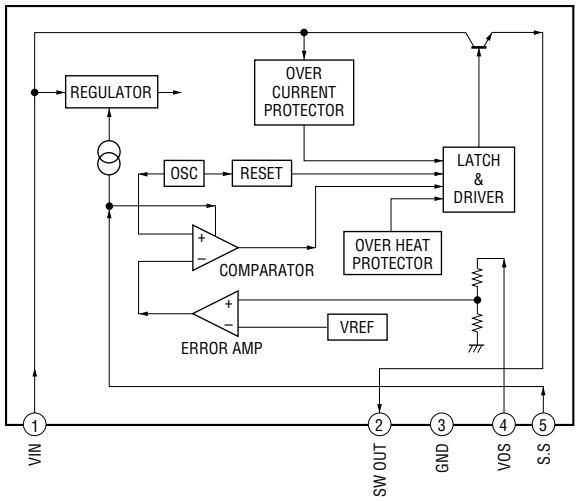
IC912 M51945BL (POWER Board)



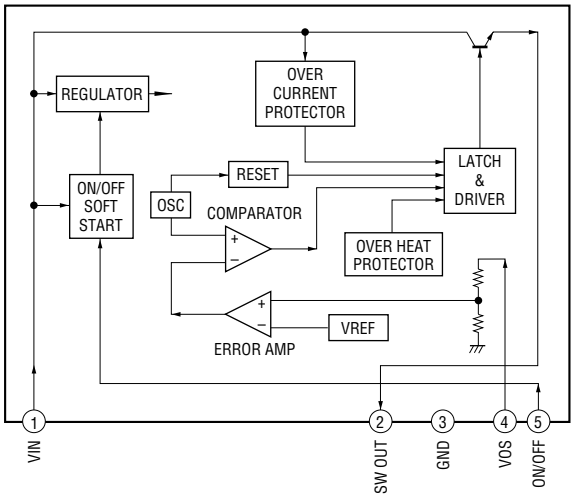
IC902 STR-F6238S (POWER Board)



IC904 SI-8050JF (POWER Board)



IC910 SI-8033S (POWER Board)



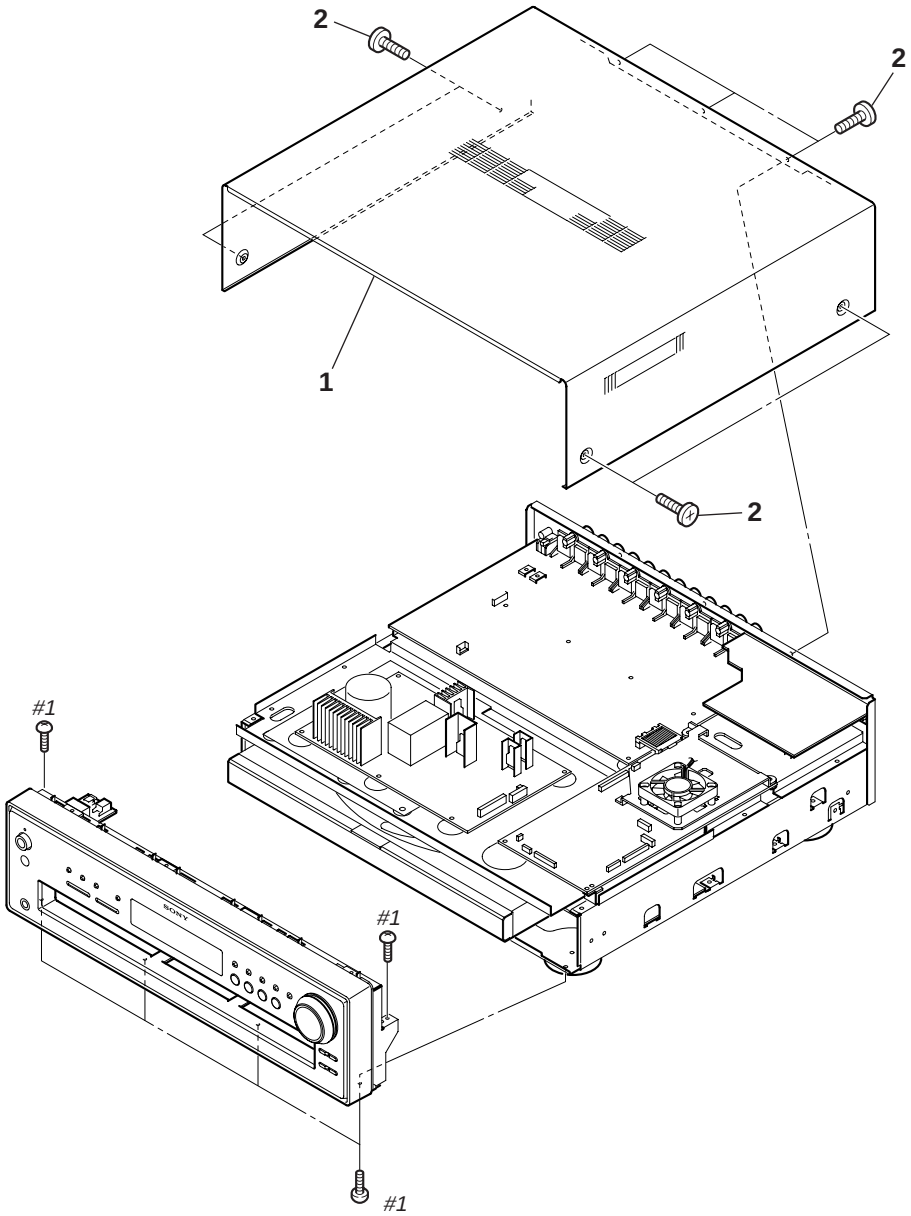
SECTION 7
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.
- Abbreviation
  CND : Canadian model

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

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

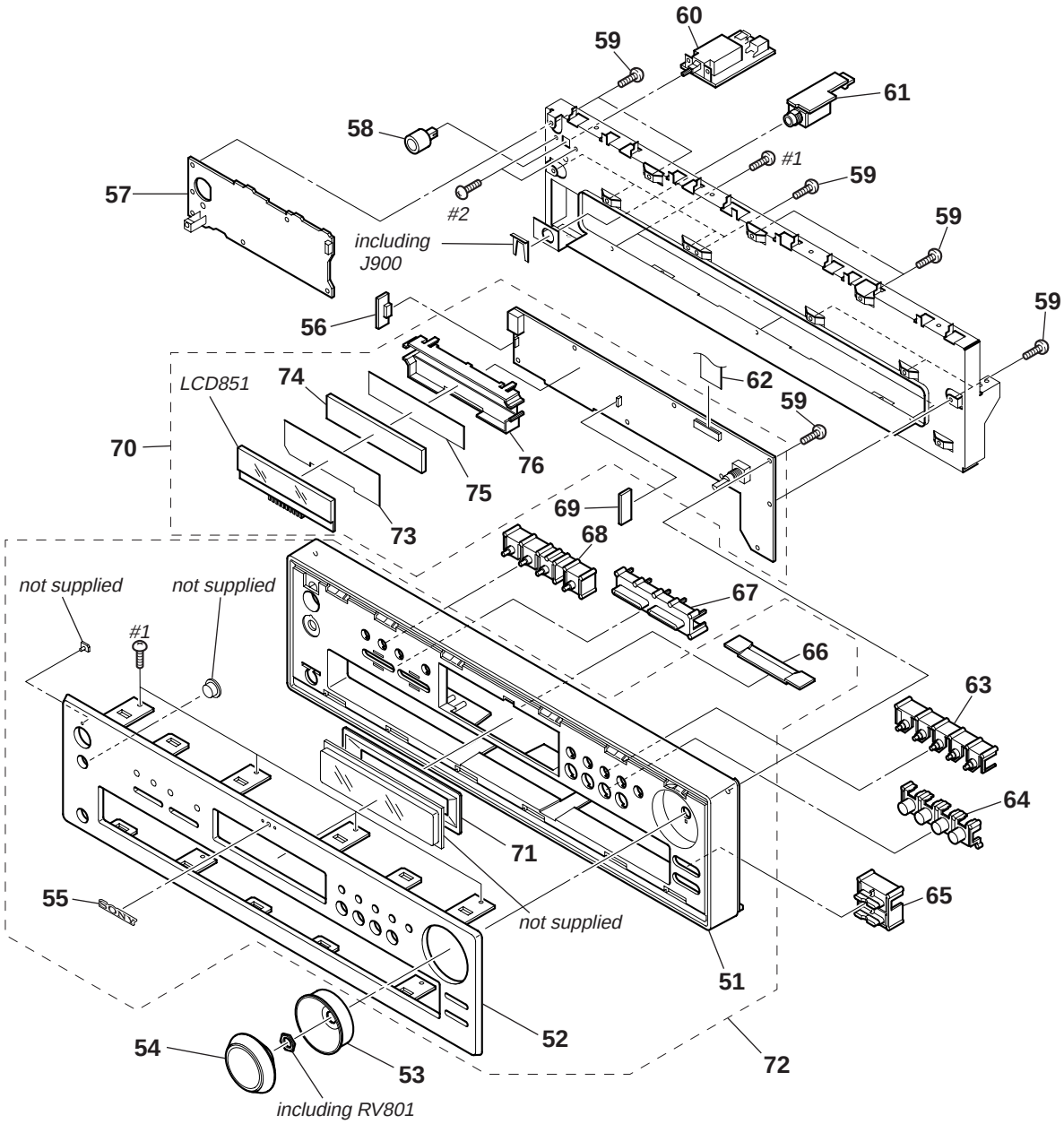
7-1. CASE SECTION



Ref. No.	Part No.	Description	Remark
1	4-239-514-73	CASE	
2	4-227-843-11	SCREW (TP), FLAT HEAD	

Ref. No.	Part No.	Description	Remark
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

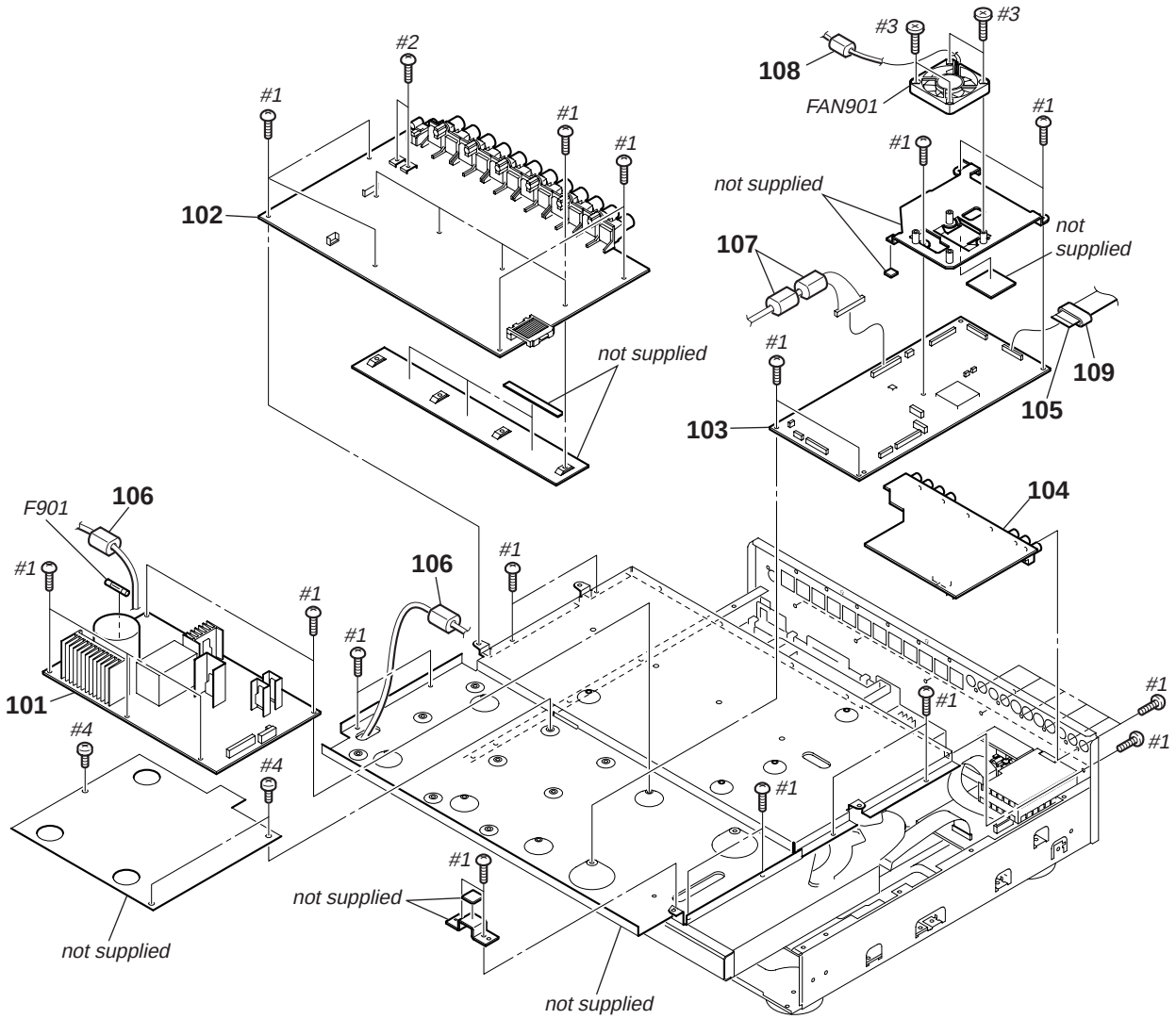
7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	4-247-913-02	PANEL (BASE)	
52	4-247-915-02	PANEL, FRONT	
53	4-247-897-01	RING (VOL)	
54	X-4955-736-1	KNOB (VOL) ASSY	
55	4-240-858-21	EMBLEM (5-A), SONY	
56	1-688-574-11	BACK LIGHT (L) BOARD	
57	A-4733-883-A	RM BOARD, COMPLETE	
58	X-4955-738-1	BUTTON (POWER) ASSY	
59	4-951-620-01	SCREW (2.6X8), +BVTP	
60	1-688-900-11	AC SW BOARD	
61	1-688-573-11	HEADPHONE BOARD	
62	1-775-204-11	WIRE (FLAT TYPE) (23 CORE)	
63	4-247-911-01	BUTTON (DISC)	
64	X-4955-735-1	BUTTON (FUNCTION) ASSY	
65	4-247-912-01	BUTTON (SKIP)	

Ref. No.	Part No.	Description	Remark
66	4-248-938-01	PLATE, LIGHT GUIDE	
67	A-4739-052-A	KEY (TOP) ASSY, –+ BUTTON	
68	4-247-896-01	BUTTON (S.F)	
69	1-688-575-11	BACK LIGHT (R) BOARD	
70	A-4733-882-A	DISPLAY BOARD, COMPLETE	
71	4-247-918-01	ESCUTCHEON	
72	A-4739-071-A	PANEL ASSY, FRONT	
73	4-247-902-01	DIFFUSER (LCD)	
74	4-247-899-01	ILLUMINATOR (LCD)	
75	4-250-560-01	REFLECTOR (LCD)	
76	4-247-901-01	HOLDER (LCD)	
LCD851	1-805-203-11	DISPLAY PANEL, LIQUID CRYSTAL	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-682-548-09	SCREW (3X8)	

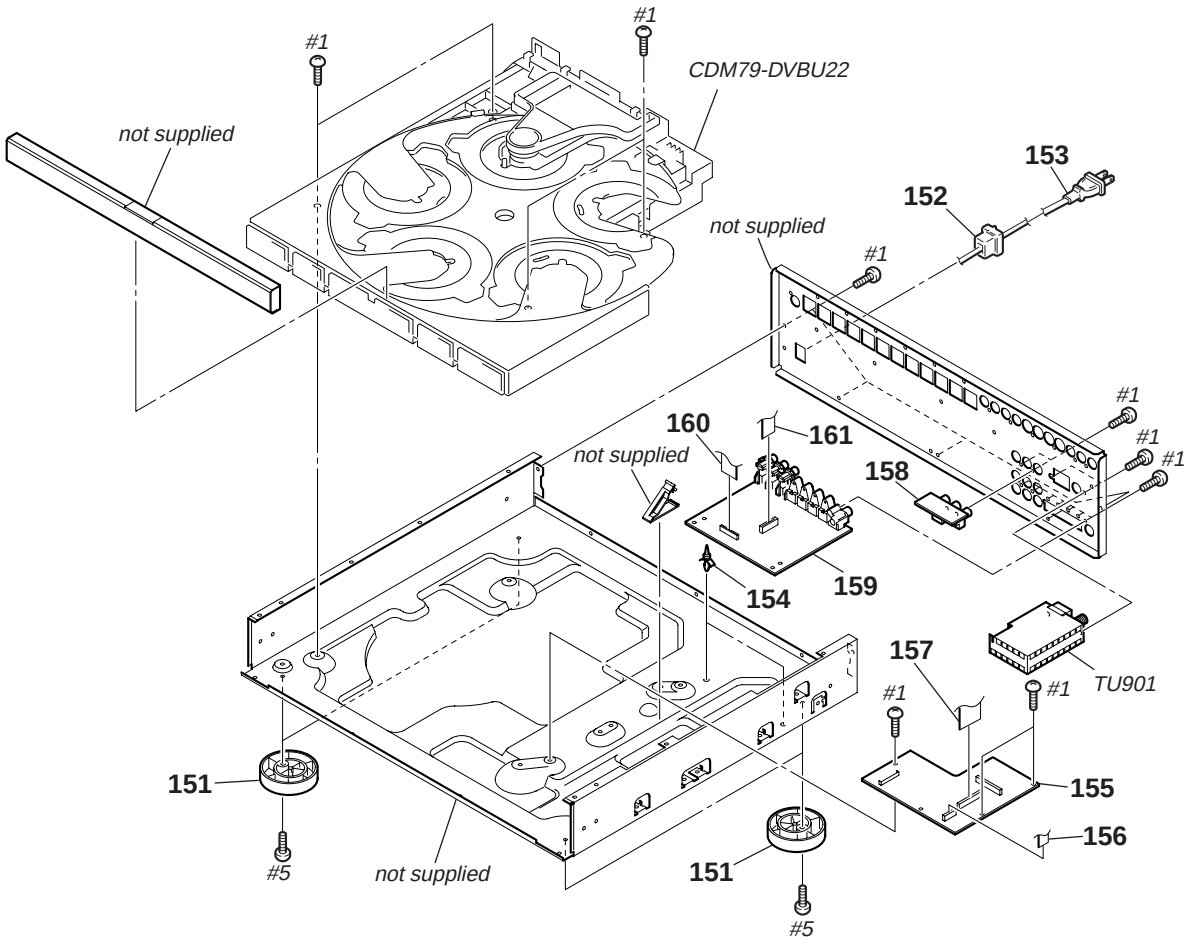
7-3. BOARDS SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
101	A-4733-880-A	POWER BOARD, COMPLETE	
102	A-4733-876-A	AMP BOARD, COMPLETE	
103	A-4733-871-A	MB BOARD, COMPLETE	
104	A-4733-889-A	VIDEO I/O BOARD, COMPLETE	
105	1-775-189-11	WIRE (FLAT TYPE) (21 CORE)	
106	1-469-969-11	CLAMP, FERRITE	
107	1-400-061-11	CORE, FERRITE (CLAMP FILTER)	
108	1-500-051-11	BEAD, FERRITE (WITH CASE)	
109	1-500-764-11	CORE, FERRITE	
⚠F901	1-533-420-11	FUSE, GLASS CYLINDRICAL (DIA.5) (5A/125V)	
FAN901	1-698-997-31	FAN, D.C.	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-682-548-09	SCREW (3X8)	
#3	7-682-548-04	SCREW +B 3X8	
#4	7-682-544-04	SCREW +B 3X3	

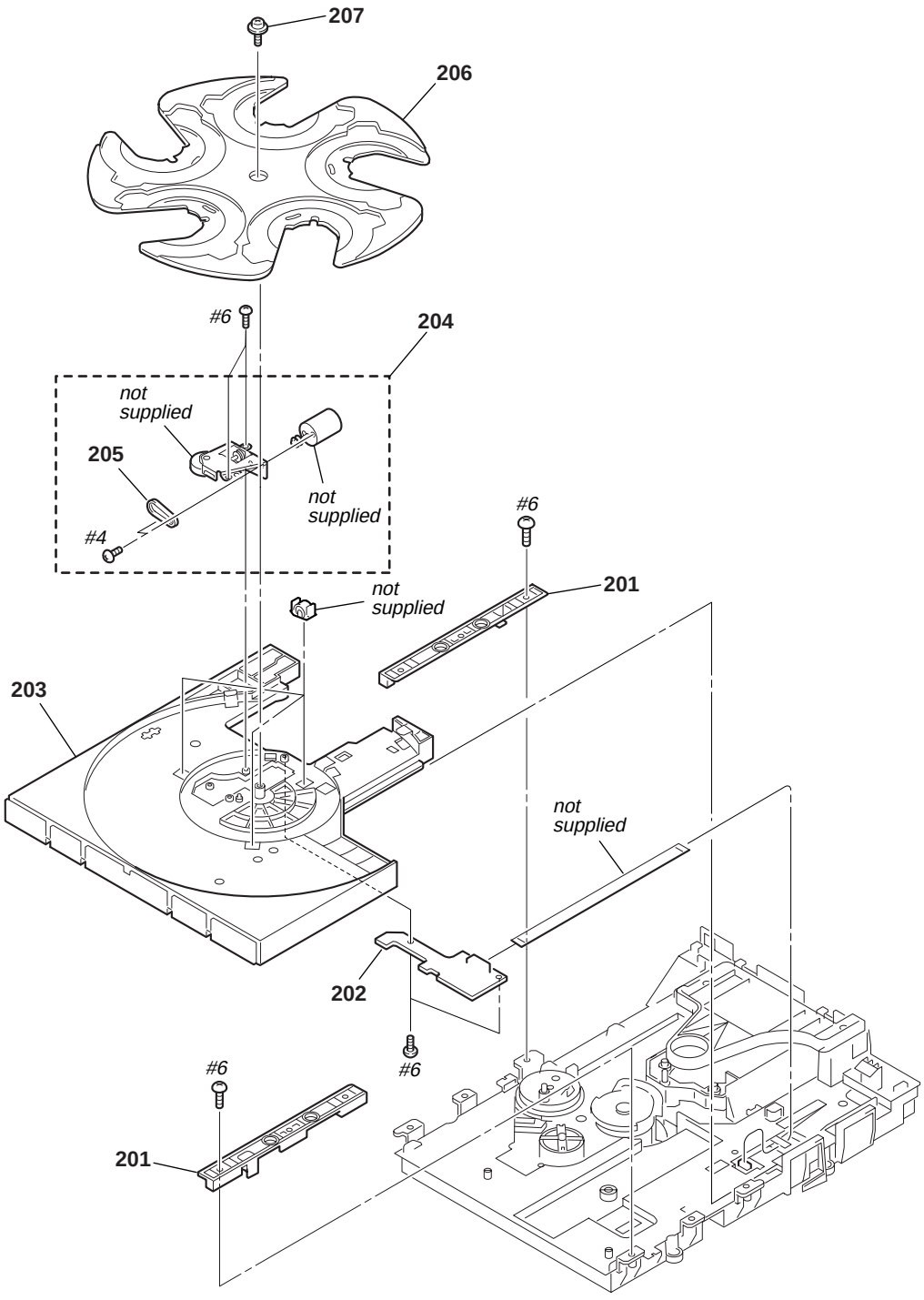
7-4. BACK PANEL SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
151	X-4955-348-1	FOOT ASSY	
* 152	3-703-244-00	BUSHING (2104), CORD	
⚠153	1-783-820-21	CORD, POWER	
154	4-924-098-11	HOLDER, PC BOARD	
155	A-4733-884-A	LINK BOARD, COMPLETE	
156	1-775-123-11	WIRE (FLAT TYPE) (13 CORE)	
157	1-775-259-11	WIRE (FLAT TYPE) (29 CORE)	
158	1-688-752-11	COMPONENT BOARD	
159	A-4733-891-A	AUDIO I/O BOARD, COMPLETE	
160	1-792-110-11	WIRE (FLAT TYPE) (21 CORE)	
161	1-769-972-11	WIRE (FLAT TYPE) (13 CORE)	
TU901	1-693-632-11	TUNER UNIT (ANTENNA)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#5	7-685-885-09	SCREW +BVTT 4X16 (S)	

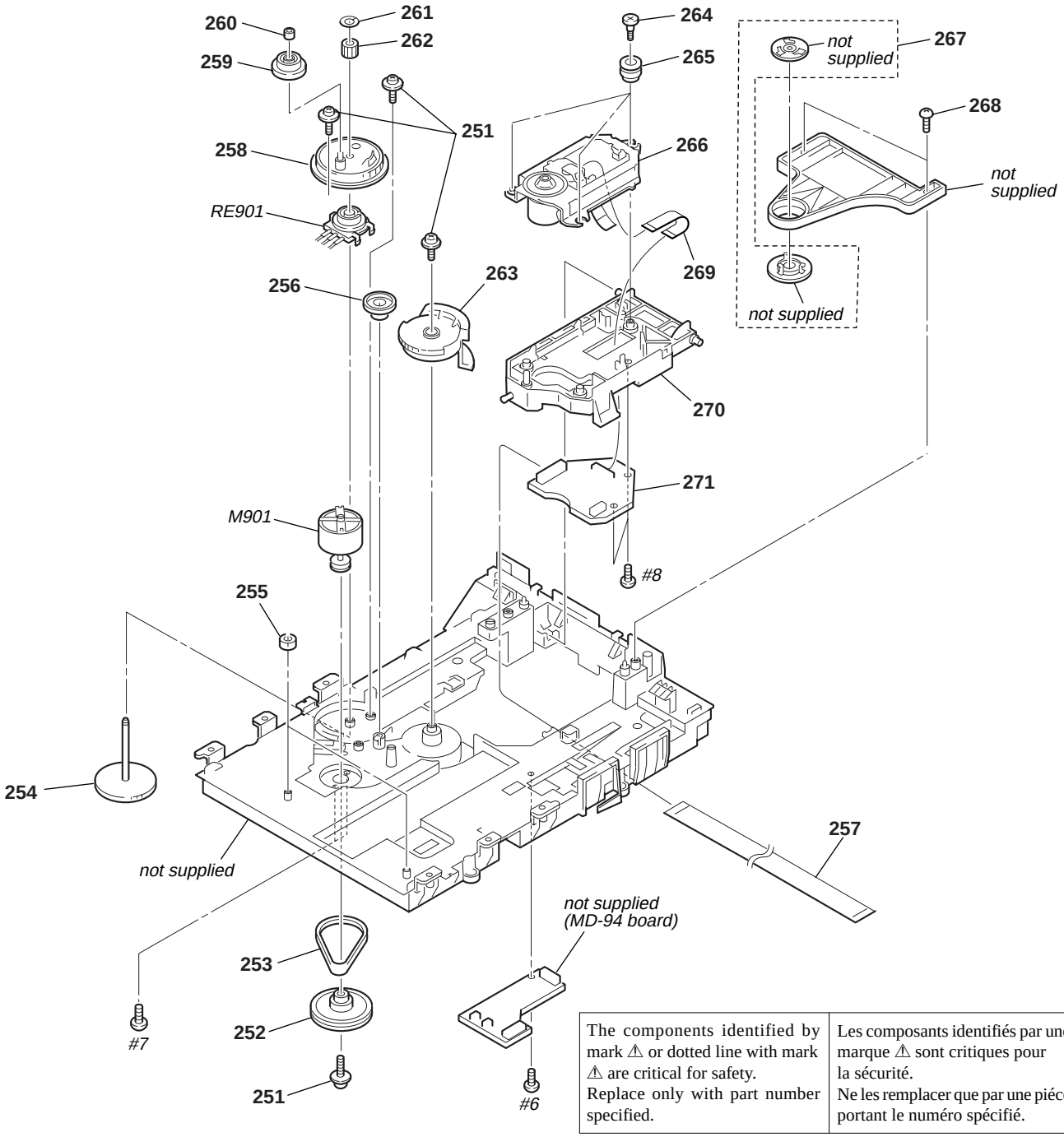
7-5. CD MECHANISM SECTION (1)
(CDM79-DVBU22)



Ref. No.	Part No.	Description	Remark
201	3-074-737-01	PLATE (GUIDE)	
202	A-6060-642-A	SE-130 BOARD, COMPLETE	
203	3-074-716-01	TABLE	
204	A-6060-640-A	UNIT ASSY, TD	
205	3-074-725-01	BELT, TD	

Ref. No.	Part No.	Description	Remark
206	3-074-717-01	TRAY	
207	4-218-252-51	SCREW (+PTPWH M2.6), FLOATING	
#4	7-682-544-04	SCREW +B 3X3	
#6	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	

7-6. CD MECHANISM SECTION (2)
(CDM79-DVBU22)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
251	4-218-252-51	SCREW (+PTPWH M2.6), FLOATING	
252	3-074-744-01	GEAR (LOADING A)	
253	3-074-745-01	BELT (LOADING)	
254	3-074-742-01	GEAR (SHAFT)	
255	4-951-619-01	CUSHION (A)	
256	3-074-735-01	GEAR (IDOLER)	
257	1-827-712-11	WIRE (FLAT TYPE) (29 CORE)	
258	3-074-741-01	GEAR (LOADING B)	
259	3-074-738-01	GEAR (SWING)	
260	3-074-739-01	COLLAR (SWING)	
261	3-016-533-01	WASHER (FR), STOPPER	
262	3-074-740-01	GEAR (LOADING C)	
263	3-074-736-01	GEAR (CHUCK)	
264	4-981-923-01	SCREW (M), STEP	
265	3-053-847-31	INSULATOR	
⚠266	1-477-263-11	PICK-UP UNIT (TDP022W)	
267	A-4736-882-A	CHUCK ASSY	
268	3-970-608-51	SUMITITE (B3), +BV	
269	1-824-106-12	CABLE, FLEXIBLE FLAT (24 CORE)	
270	X-4955-252-2	HOLDER (BU) ASSY	
271	A-4728-690-A	RF BOARD, COMPLETE	
M901	1-541-632-12	MOTOR, DC (ROTARY)	
RE901	1-418-746-11	ENCODER, ROTARY	
#6	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#7	7-621-259-25	SCREW +P 2.6X4	
#8	7-685-535-19	SCREW +BTP 2.6X10 TYPE2 N-S	

AC SW | AMP

SECTION 8
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 and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable

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

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH
- Abbreviation
  CND : Canadian model

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

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
	1-688-900-11	AC SW BOARD			
		**********			
		< CONNECTOR >			
* CNP904	1-695-044-11	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CNP905	1-580-230-31	PIN, CONNECTOR (PC BOARD) 2P			
		< SWITCH >			
⚠S901	1-692-349-11	SWITCH, PUSH (AC POWER) (POWER STANDBY)			
**********					
	A-4733-876-A	AMP BOARD, COMPLETE			
		**********			
	4-924-264-01	TERMINAL, MOUNT (TM400,TM401)			
		< CAPACITOR >			
C201	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C301	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C302	1-135-671-11	ELECT	2200uF		10V
C303	1-125-926-11	TANTAL. CHIP	4.7uF	20%	6.3V
C304	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C305	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C306	1-125-926-11	TANTAL. CHIP	4.7uF	20%	6.3V
C307	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C308	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C309	1-125-926-11	TANTAL. CHIP	4.7uF	20%	6.3V
C310	1-135-770-11	ELECT	47uF		63V
C311	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C312	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C313	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C314	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C315	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C316	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C317	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C318	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C319	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C320	1-135-682-11	ELECT	220uF		25V
C321	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C322	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C323	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C324	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C325	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C326	1-135-682-11	ELECT	220uF		25V
C327	1-135-682-11	ELECT	220uF		25V

Ref. No.	Part No.	Description			Remark
C328	1-135-682-11	ELECT	220uF		25V
C329	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C330	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C331	1-136-850-11	MYLAR	0.1uF	5%	63V
C332	1-136-850-11	MYLAR	0.1uF	5%	63V
C333	1-119-837-11	ELECT	100uF	20%	63V
C335	1-100-598-11	MYLAR	1uF	5%	250V
C336	1-100-598-11	MYLAR	1uF	5%	250V
C337	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C338	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C339	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C340	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C341	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C342	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C343	1-135-682-11	ELECT	220uF		25V
C344	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C345	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C346	1-136-850-11	MYLAR	0.1uF	5%	63V
C347	1-136-850-11	MYLAR	0.1uF	5%	63V
C348	1-119-837-11	ELECT	100uF	20%	63V
C349	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C350	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C351	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C353	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C354	1-100-598-11	MYLAR	1uF	5%	250V
C355	1-100-598-11	MYLAR	1uF	5%	250V
C356	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C357	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C358	1-135-682-11	ELECT	220uF		25V
C359	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C360	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C361	1-135-712-51	ELECT	1000uF		63V
C362	1-135-712-51	ELECT	1000uF		63V
C363	1-109-857-11	ELECT	47uF	20%	63V
C364	1-125-926-11	TANTAL. CHIP	4.7uF	20%	6.3V
C365	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C366	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C367	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C368	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C369	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C370	1-135-671-11	ELECT	2200uF		10V
C371	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C372	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C373	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C374	1-125-926-11	TANTAL. CHIP	4.7uF	20%	6.3V

Ref. No.	Part No.	Description			Remark
C375	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C376	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C377	1-125-926-11	TANTAL. CHIP	4.7uF	20%	6.3V
C378	1-135-770-11	ELECT	47uF		63V
C379	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C380	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C381	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C382	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C383	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C384	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C385	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C386	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C387	1-135-682-11	ELECT	220uF		25V
C388	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C389	1-131-664-11	CERAMIC CHIP	0.15uF	10%	10V
C390	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C391	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C392	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C394	1-131-664-11	CERAMIC CHIP	0.15uF	10%	10V
C395	1-104-509-11	CERAMIC CHIP	0.018uF	10%	16V
C396	1-119-799-11	ELECT	47uF	20%	25V
C397	1-135-682-11	ELECT	220uF		25V
C398	1-135-682-11	ELECT	220uF		25V
C399	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C400	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C401	1-136-850-11	MYLAR	0.1uF	5%	63V
C402	1-136-850-11	MYLAR	0.1uF	5%	63V
C403	1-119-837-11	ELECT	100uF	20%	63V
C404	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C405	1-100-598-11	MYLAR	1uF	5%	250V
C406	1-100-598-11	MYLAR	1uF	5%	250V
C407	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C408	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C409	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C410	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C413	1-128-834-11	ELECT	470uF	20%	10V
C414	1-125-926-11	TANTAL. CHIP	4.7uF	20%	6.3V
C415	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
C416	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C417	1-126-959-11	ELECT	0.47uF	20%	50V
C418	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C419	1-126-965-11	ELECT	22uF	20%	50V
C420	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C421	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C422	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C424	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C425	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C426	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C427	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C428	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C430	1-135-671-11	ELECT	2200uF		10V
C431	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C432	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C433	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C434	1-125-926-11	TANTAL. CHIP	4.7uF	20%	6.3V
C435	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C436	1-125-926-11	TANTAL. CHIP	4.7uF	20%	6.3V
C437	1-135-770-11	ELECT	47uF		63V
C438	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C439	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C440	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C441	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C442	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C443	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C444	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C445	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C446	1-135-682-11	ELECT	220uF		25V
C447	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C448	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C449	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C450	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C451	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C452	1-135-682-11	ELECT	220uF		25V
C453	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C454	1-135-682-11	ELECT	220uF		25V
C455	1-135-682-11	ELECT	220uF		25V
C456	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C457	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C458	1-136-850-11	MYLAR	0.1uF	5%	63V
C459	1-136-850-11	MYLAR	0.1uF	5%	63V
C460	1-135-771-51	ELECT	100uF		63V
C461	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C462	1-100-598-11	MYLAR	1uF	5%	250V
C463	1-100-598-11	MYLAR	1uF	5%	250V
C464	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C466	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C468	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C469	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C470	1-135-682-11	ELECT	220uF		25V
C471	1-135-682-11	ELECT	220uF		25V
C472	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C473	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C474	1-136-850-11	MYLAR	0.1uF	5%	63V
C475	1-136-850-11	MYLAR	0.1uF	5%	63V
C476	1-104-509-11	CERAMIC CHIP	0.018uF	10%	16V
C477	1-135-771-51	ELECT	100uF		63V
C478	1-100-598-11	MYLAR	1uF	5%	250V
C479	1-100-598-11	MYLAR	1uF	5%	250V
C480	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C481	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C482	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C483	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C485	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C486	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C487	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C488	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C489	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C490	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C491	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C493	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C494	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C495	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C496	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C497	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C498	1-126-204-11	ELECT CHIP	47uF	20%	16V

AMP

Ref. No.	Part No.	Description			Remark
C499	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C500	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C501	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
C502	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
C503	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C504	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C505	1-126-246-11	ELECT CHIP	220uF	20%	4V
C506	1-126-246-11	ELECT CHIP	220uF	20%	4V
C507	1-126-204-11	ELECT CHIP	47uF	20%	16V
C509	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C510	1-109-857-11	ELECT	47uF	20%	63V
C511	1-125-926-11	TANTAL. CHIP	4.7uF	20%	6.3V
C512	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C513	1-162-908-11	CERAMIC CHIP	3PF	0.25PF	50V
C514	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
C515	1-128-201-11	ELECT	100uF	20%	63V
C516	1-128-197-11	ELECT	10uF	20%	63V
C517	1-135-770-11	ELECT	47uF		63V
C518	1-135-743-11	ELECT	10uF		50V
C519	1-135-682-11	ELECT	220uF		25V
C520	1-135-682-11	ELECT	220uF		25V
C521	1-135-711-11	ELECT	470uF		16V
C522	1-135-743-11	ELECT	10uF		50V
C523	1-115-197-11	ELECT	100uF	20%	25V
C524	1-115-197-11	ELECT	100uF	20%	25V
C525	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C526	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C527	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C528	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C529	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C530	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C531	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C532	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C533	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C534	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C535	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C536	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C537	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C538	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C539	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C540	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C541	1-128-197-11	ELECT	10uF	20%	63V
C542	1-128-197-11	ELECT	10uF	20%	63V
C543	1-128-197-11	ELECT	10uF	20%	63V
C544	1-128-197-11	ELECT	10uF	20%	63V
C545	1-128-197-11	ELECT	10uF	20%	63V
C546	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C547	1-136-850-11	MYLAR	0.1uF	5%	63V
C548	1-136-850-11	MYLAR	0.1uF	5%	63V
C549	1-136-850-11	MYLAR	0.1uF	5%	63V
C550	1-136-850-11	MYLAR	0.1uF	5%	63V
C551	1-136-850-11	MYLAR	0.1uF	5%	63V
C552	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C553	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C554	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C555	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C556	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C557	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C558	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C559	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C560	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
C562	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C563	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C564	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C565	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C566	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C567	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C568	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C569	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C570	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C571	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C572	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C573	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C574	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C576	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C578	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C579	1-135-680-11	ELECT	47uF		25V
C580	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C581	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C582	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C583	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C584	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C585	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C586	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C587	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C588	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C589	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C590	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C591	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C592	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C593	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C594	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C601	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C602	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C603	1-135-770-11	ELECT	47uF		63V
C604	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C605	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C606	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C607	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C608	1-125-926-11	TANTAL. CHIP	4.7uF	20%	6.3V
C609	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C610	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C611	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C612	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C613	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C614	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C615	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C616	1-135-682-11	ELECT	220uF		25V
C617	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C618	1-135-682-11	ELECT	220uF		25V
C619	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C620	1-135-682-11	ELECT	220uF		25V
C621	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C622	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C623	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C624	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V

Ref. No.	Part No.	Description			Remark
C625	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C626	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C627	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C628	1-136-850-11	MYLAR	0.1uF	5%	63V
C629	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C630	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C631	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C632	1-136-850-11	MYLAR	0.1uF	5%	63V
C633	1-135-771-51	ELECT	100uF		63V
C634	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C635	1-128-197-11	ELECT	10uF	20%	63V
C636	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C637	1-136-850-11	MYLAR	0.1uF	5%	63V
⚠C638	1-100-598-11	MYLAR	1uF	5%	250V
⚠C639	1-100-598-11	MYLAR	1uF	5%	250V
C640	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C641	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C642	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C643	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
C645	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C646	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C647	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C648	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C649	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C651	1-125-926-11	TANTAL. CHIP	4.7uF	20%	6.3V
C652	1-135-671-11	ELECT	2200uF		10V
C653	1-100-156-11	CERAMIC CHIP	680PF	5%	100V
		< CONNECTOR >			
* CN301	1-564-508-11	PLUG, CONNECTOR 5P			
CN309	1-506-469-11	PIN, CONNECTOR 4P			
		< DIODE >			
D301	8-719-049-09	DIODE 1SS367-T3SONY			
D302	8-719-049-09	DIODE 1SS367-T3SONY			
D303	8-719-049-09	DIODE 1SS367-T3SONY			
D304	8-719-049-09	DIODE 1SS367-T3SONY			
D305	8-719-049-09	DIODE 1SS367-T3SONY			
D306	8-719-016-74	DIODE 1SS352			
D307	8-719-049-09	DIODE 1SS367-T3SONY			
D308	8-719-016-74	DIODE 1SS352			
D310	8-719-016-74	DIODE 1SS352			
D311	8-719-016-74	DIODE 1SS352			
D312	8-719-016-74	DIODE 1SS352			
D313	8-719-016-74	DIODE 1SS352			
D315	8-719-016-74	DIODE 1SS352			
D316	8-719-016-74	DIODE 1SS352			
D317	8-719-016-74	DIODE 1SS352			
D318	8-719-016-74	DIODE 1SS352			
D319	8-719-016-74	DIODE 1SS352			
D320	8-719-016-74	DIODE 1SS352			
D321	8-719-016-74	DIODE 1SS352			
D322	8-719-016-74	DIODE 1SS352			
D323	8-719-016-74	DIODE 1SS352			
D326	8-719-049-09	DIODE 1SS367-T3SONY			
D327	8-719-049-09	DIODE 1SS367-T3SONY			
D328	8-719-049-09	DIODE 1SS367-T3SONY			
D329	8-719-049-09	DIODE 1SS367-T3SONY			

Ref. No.	Part No.	Description	Remark
D601	8-719-016-74	DIODE 1SS352	
D602	8-719-016-74	DIODE 1SS352	
		< EARTH TERMINAL >	
* EP301	1-537-738-21	TERMINAL, EARTH	
* EP302	1-537-738-21	TERMINAL, EARTH	
* EP303	1-537-738-21	TERMINAL, EARTH	
* EP304	1-537-738-21	TERMINAL, EARTH	
* EP305	1-537-738-21	TERMINAL, EARTH	
		< FERRITE BEAD >	
FB301	1-469-835-21	INDUCTOR, FERRITE BEAD	
FB302	1-469-835-21	INDUCTOR, FERRITE BEAD	
FB303	1-469-760-21	FERRITE, EMI (SMD)	
FB304	1-469-760-21	FERRITE, EMI (SMD)	
FB305	1-469-760-21	FERRITE, EMI (SMD)	
FB306	1-469-760-21	FERRITE, EMI (SMD)	
FB307	1-469-760-21	FERRITE, EMI (SMD)	
FB308	1-469-760-21	FERRITE, EMI (SMD)	
FB309	1-469-760-21	FERRITE, EMI (SMD)	
FB310	1-414-760-21	FERRITE, EMI (SMD)	
FB311	1-414-760-21	FERRITE, EMI (SMD)	
FB312	1-414-760-21	FERRITE, EMI (SMD)	
FB313	1-414-760-21	FERRITE, EMI (SMD)	
FB314	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB315	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB316	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB317	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB318	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB319	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB320	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB321	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB322	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB323	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB324	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB325	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB326	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB327	1-414-760-21	FERRITE, EMI (SMD)	
FB328	1-414-760-21	FERRITE, EMI (SMD)	
FB329	1-414-760-21	FERRITE, EMI (SMD)	
FB330	1-414-760-21	FERRITE, EMI (SMD)	
FB331	1-414-760-21	FERRITE, EMI (SMD)	
FB332	1-414-760-21	FERRITE, EMI (SMD)	
FB601	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB602	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB603	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB604	1-469-760-21	FERRITE, EMI (SMD)	
FB605	1-469-760-21	FERRITE, EMI (SMD)	
FB606	1-414-760-21	FERRITE, EMI (SMD)	
FB607	1-414-760-21	FERRITE, EMI (SMD)	
		< IC >	
IC301	6-702-673-01	IC CXD9730Q	
IC302	8-759-523-08	IC TC74AC08FT(EL)	
IC303	8-759-523-08	IC TC74AC08FT(EL)	
IC304	8-759-523-08	IC TC74AC08FT(EL)	
IC305	8-759-523-08	IC TC74AC08FT(EL)	
IC306	6-704-197-01	IC HIP2101IBZT	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

AMP

Ref. No.	Part No.	Description	Remark
IC307	6-704-197-01	IC HIP2101IBZT	
IC308	6-702-673-01	IC CXD9730Q	
IC309	8-759-523-08	IC TC74AC08FT(EL)	
IC310	8-759-523-08	IC TC74AC08FT(EL)	
IC311	8-759-636-55	IC M5218AFP	
IC312	6-704-197-01	IC HIP2101IBZT	
IC313	6-702-673-01	IC CXD9730Q	
IC314	8-759-523-08	IC TC74AC08FT(EL)	
IC315	8-759-523-08	IC TC74AC08FT(EL)	
IC316	8-759-523-08	IC TC74AC08FT(EL)	
IC317	8-759-523-08	IC TC74AC08FT(EL)	
IC318	6-704-197-01	IC HIP2101IBZT	
IC319	6-704-197-01	IC HIP2101IBZT	
IC320	8-759-636-55	IC M5218AFP	
IC321	8-759-636-55	IC M5218AFP	
IC322	8-759-450-47	IC BA05T	
IC323	8-759-445-59	IC BA033T	
IC324	8-759-711-85	IC NJM4580E-D	
IC325	8-759-271-88	IC TC7SHU04FU	
IC326	8-759-679-05	IC TC7WH34FU(TE12R)	
IC327	8-759-111-68	IC uPC1237HA	
IC328	6-704-197-01	IC HIP2101IBZT	
IC329	6-704-197-01	IC HIP2101IBZT	
IC330	6-704-197-01	IC HIP2101IBZT	
IC331	6-704-197-01	IC HIP2101IBZT	
IC332	6-704-197-01	IC HIP2101IBZT	
IC601	8-759-523-08	IC TC74AC08FT(EL)	
IC602	8-759-523-08	IC TC74AC08FT(EL)	
IC603	6-704-197-01	IC HIP2101IBZT	
IC604	6-704-197-01	IC HIP2101IBZT	
IC605	6-702-673-01	IC CXD9730Q	
		< JACK >	
J301	1-816-917-11	JACK, PIN 1P (SUB WOOFER AUDIO OUT)	
		< COIL >	
L301	1-412-010-41	INDUCTOR 22uH	
L302	1-412-010-41	INDUCTOR 22uH	
L303	1-412-010-41	INDUCTOR 22uH	
L304	1-412-006-31	INDUCTOR 10uH	
L305	1-410-993-42	INDUCTOR 1uH	
L306	1-428-923-11	COIL, CHOKE 10uH	
L307	1-428-923-11	COIL, CHOKE 10uH	
L308	1-428-923-11	COIL, CHOKE 10uH	
L309	1-428-923-11	COIL, CHOKE 10uH	
L310	1-428-923-11	COIL, CHOKE 10uH	
L311	1-428-923-11	COIL, CHOKE 10uH	
L312	1-428-923-11	COIL, CHOKE 10uH	
L313	1-428-923-11	COIL, CHOKE 10uH	
L314	1-428-923-11	COIL, CHOKE 10uH	
L315	1-428-923-11	COIL, CHOKE 10uH	
L326	1-412-006-31	INDUCTOR 10uH	
L327	1-410-682-31	INDUCTOR 470uH	
L328	1-410-682-31	INDUCTOR 470uH	
L329	1-410-682-31	INDUCTOR 470uH	
L601	1-428-923-11	COIL, CHOKE 10uH	
L602	1-428-923-11	COIL, CHOKE 10uH	

Ref. No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q304	6-550-614-01	FET 2SK3669	
Q307	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q308	1-801-806-11	TRANSISTOR DTC144EKA	
Q309	6-550-614-01	FET 2SK3669	
Q310	8-729-202-05	TRANSISTOR 2SC2873-O	
Q311	8-729-202-05	TRANSISTOR 2SC2873-O	
Q312	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q313	6-550-614-01	FET 2SK3669	
Q314	1-801-806-11	TRANSISTOR DTC144EKA	
Q315	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q316	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q317	8-729-216-21	TRANSISTOR 2SA1162-Y	
Q318	8-729-216-21	TRANSISTOR 2SA1162-Y	
Q319	8-729-216-21	TRANSISTOR 2SA1162-Y	
Q320	8-729-216-21	TRANSISTOR 2SA1162-Y	
Q321	8-729-216-21	TRANSISTOR 2SA1162-Y	
Q322	8-729-216-21	TRANSISTOR 2SA1162-Y	
Q323	8-729-216-21	TRANSISTOR 2SA1162-Y	
Q324	8-729-216-21	TRANSISTOR 2SA1162-Y	
Q325	8-729-216-21	TRANSISTOR 2SA1162-Y	
Q326	8-729-216-21	TRANSISTOR 2SA1162-Y	
Q327	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q328	6-550-614-01	FET 2SK3669	
Q329	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q330	6-550-614-01	FET 2SK3669	
Q331	6-550-614-01	FET 2SK3669	
Q332	6-550-614-01	FET 2SK3669	
Q333	6-550-614-01	FET 2SK3669	
Q334	6-550-614-01	FET 2SK3669	
Q335	6-550-614-01	FET 2SK3669	
Q336	6-550-614-01	FET 2SK3669	
Q337	6-550-614-01	FET 2SK3669	
Q338	6-550-614-01	FET 2SK3669	
Q339	6-550-614-01	FET 2SK3669	
Q340	6-550-614-01	FET 2SK3669	
Q341	6-550-614-01	FET 2SK3669	
Q342	6-550-614-01	FET 2SK3669	
Q343	6-550-614-01	FET 2SK3669	
Q344	6-550-614-01	FET 2SK3669	
Q345	6-550-614-01	FET 2SK3669	
Q346	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q347	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q348	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q349	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q350	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q351	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q352	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q353	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q354	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q355	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q356	8-729-216-21	TRANSISTOR 2SA1162-Y	
Q358	8-729-216-21	TRANSISTOR 2SA1162-Y	
Q360	8-729-216-21	TRANSISTOR 2SA1162-Y	
Q362	8-729-216-21	TRANSISTOR 2SA1162-Y	
Q364	8-729-216-21	TRANSISTOR 2SA1162-Y	
Q601	6-550-614-01	FET 2SK3669	

Ref. No.	Part No.	Description			Remark
Q602	6-550-614-01	FET 2SK3669			
Q603	6-550-614-01	FET 2SK3669			
Q604	6-550-614-01	FET 2SK3669			
Q606	8-729-216-21	TRANSISTOR 2SA1162-Y			
Q607	8-729-216-21	TRANSISTOR 2SA1162-Y			
Q608	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q609	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q610	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q612	8-729-216-21	TRANSISTOR 2SA1162-Y			
		< RESISTOR >			
R301	1-216-801-11	METAL CHIP	22	5%	1/10W
R302	1-216-815-11	METAL CHIP	330	5%	1/10W
R303	1-216-815-11	METAL CHIP	330	5%	1/10W
R304	1-216-815-11	METAL CHIP	330	5%	1/10W
R305	1-216-815-11	METAL CHIP	330	5%	1/10W
R306	1-216-810-11	METAL CHIP	120	5%	1/10W
R307	1-216-797-11	METAL CHIP	10	5%	1/10W
R308	1-216-797-11	METAL CHIP	10	5%	1/10W
R309	1-216-810-11	METAL CHIP	120	5%	1/10W
R310	1-216-815-11	METAL CHIP	330	5%	1/10W
R311	1-216-815-11	METAL CHIP	330	5%	1/10W
R312	1-216-815-11	METAL CHIP	330	5%	1/10W
R313	1-216-815-11	METAL CHIP	330	5%	1/10W
R314	1-216-810-11	METAL CHIP	120	5%	1/10W
R315	1-216-797-11	METAL CHIP	10	5%	1/10W
R316	1-216-797-11	METAL CHIP	10	5%	1/10W
R317	1-216-810-11	METAL CHIP	120	5%	1/10W
R318	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠R319	1-243-961-21	METAL CHIP	0.1	5%	1W F
⚠R321	1-243-961-21	METAL CHIP	0.1	5%	1W F
R322	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R323	1-216-864-11	METAL CHIP	0	5%	1/10W
R324	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠R325	1-243-961-21	METAL CHIP	0.1	5%	1W F
⚠R327	1-243-961-21	METAL CHIP	0.1	5%	1W F
R329	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R330	1-216-815-11	METAL CHIP	330	5%	1/10W
R331	1-216-815-11	METAL CHIP	330	5%	1/10W
R332	1-216-815-11	METAL CHIP	330	5%	1/10W
R333	1-216-815-11	METAL CHIP	330	5%	1/10W
R334	1-216-810-11	METAL CHIP	120	5%	1/10W
R335	1-216-797-11	METAL CHIP	10	5%	1/10W
R336	1-216-797-11	METAL CHIP	10	5%	1/10W
R337	1-216-810-11	METAL CHIP	120	5%	1/10W
R338	1-216-833-11	METAL CHIP	10K	5%	1/10W
R339	1-216-833-11	METAL CHIP	10K	5%	1/10W
R340	1-216-837-11	METAL CHIP	22K	5%	1/10W
R341	1-216-837-11	METAL CHIP	22K	5%	1/10W
R342	1-216-833-11	METAL CHIP	10K	5%	1/10W
R343	1-216-833-11	METAL CHIP	10K	5%	1/10W
R344	1-216-837-11	METAL CHIP	22K	5%	1/10W
R345	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R346	1-216-837-11	METAL CHIP	22K	5%	1/10W
R347	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R348	1-216-797-11	METAL CHIP	10	5%	1/10W
R349	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠R350	1-243-961-21	METAL CHIP	0.1	5%	1W F

Ref. No.	Part No.	Description			Remark
⚠R352	1-243-961-21	METAL CHIP	0.1	5%	1W F
R353	1-216-864-11	METAL CHIP	0	5%	1/10W
R355	1-216-841-11	METAL CHIP	47K	5%	1/10W
R356	1-218-269-11	METAL CHIP	360	5%	1/10W
R357	1-216-809-11	METAL CHIP	100	5%	1/10W
R358	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R360	1-216-815-11	METAL CHIP	330	5%	1/10W
R361	1-216-815-11	METAL CHIP	330	5%	1/10W
R362	1-216-815-11	METAL CHIP	330	5%	1/10W
R363	1-216-815-11	METAL CHIP	330	5%	1/10W
R364	1-216-810-11	METAL CHIP	120	5%	1/10W
R365	1-216-797-11	METAL CHIP	10	5%	1/10W
R366	1-216-797-11	METAL CHIP	10	5%	1/10W
R367	1-216-810-11	METAL CHIP	120	5%	1/10W
R368	1-216-815-11	METAL CHIP	330	5%	1/10W
R369	1-216-815-11	METAL CHIP	330	5%	1/10W
R370	1-216-815-11	METAL CHIP	330	5%	1/10W
R371	1-216-815-11	METAL CHIP	330	5%	1/10W
R372	1-216-810-11	METAL CHIP	120	5%	1/10W
R373	1-216-797-11	METAL CHIP	10	5%	1/10W
R374	1-216-797-11	METAL CHIP	10	5%	1/10W
R375	1-216-810-11	METAL CHIP	120	5%	1/10W
R376	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠R377	1-243-961-21	METAL CHIP	0.1	5%	1W F
⚠R379	1-243-961-21	METAL CHIP	0.1	5%	1W F
R380	1-216-805-11	METAL CHIP	47	5%	1/10W
R381	1-216-805-11	METAL CHIP	47	5%	1/10W
R382	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R383	1-216-864-11	METAL CHIP	0	5%	1/10W
R385	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠R386	1-243-961-21	METAL CHIP	0.1	5%	1W F
⚠R388	1-243-961-21	METAL CHIP	0.1	5%	1W F
R389	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R390	1-216-864-11	METAL CHIP	0	5%	1/10W
R391	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R392	1-218-269-11	METAL CHIP	360	5%	1/10W
R394	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R395	1-216-864-11	METAL CHIP	0	5%	1/10W
R396	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R397	1-216-864-11	METAL CHIP	0	5%	1/10W
R400	1-216-833-11	METAL CHIP	10K	5%	1/10W
R401	1-216-833-11	METAL CHIP	10K	5%	1/10W
R402	1-216-833-11	METAL CHIP	10K	5%	1/10W
R403	1-216-833-11	METAL CHIP	10K	5%	1/10W
R404	1-216-833-11	METAL CHIP	10K	5%	1/10W
R405	1-216-833-11	METAL CHIP	10K	5%	1/10W
R406	1-216-833-11	METAL CHIP	10K	5%	1/10W
R407	1-216-833-11	METAL CHIP	10K	5%	1/10W
R408	1-216-837-11	METAL CHIP	22K	5%	1/10W
R409	1-216-837-11	METAL CHIP	22K	5%	1/10W
R410	1-216-833-11	METAL CHIP	10K	5%	1/10W
R411	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R412	1-216-837-11	METAL CHIP	22K	5%	1/10W
R413	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R414	1-216-809-11	METAL CHIP	100	5%	1/10W
R415	1-216-835-11	METAL CHIP	15K	5%	1/10W
R416	1-216-837-11	METAL CHIP	22K	5%	1/10W
R417	1-216-837-11	METAL CHIP	22K	5%	1/10W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

AMP

Ref. No.	Part No.	Description			Remark
R418	1-216-845-11	METAL CHIP	100K	5%	1/10W
R419	1-216-845-11	METAL CHIP	100K	5%	1/10W
R420	1-259-987-11	CARBON MELF	220	2%	1/8W
R421	1-260-032-11	CARBON MELF	1M	2%	1/8W
R422	1-218-269-11	METAL CHIP	360	5%	1/10W
R423	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R424	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R425	1-216-864-11	METAL CHIP	0	5%	1/10W
R426	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R427	1-216-805-11	METAL CHIP	47	5%	1/10W
R428	1-216-797-11	METAL CHIP	10	5%	1/10W
R429	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R430	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R431	1-216-797-11	METAL CHIP	10	5%	1/10W
R432	1-216-864-11	METAL CHIP	0	5%	1/10W
R435	1-216-864-11	METAL CHIP	0	5%	1/10W
R436	1-216-814-11	METAL CHIP	270	5%	1/10W
R437	1-216-864-11	METAL CHIP	0	5%	1/10W
R438	1-216-809-11	METAL CHIP	100	5%	1/10W
R439	1-216-809-11	METAL CHIP	100	5%	1/10W
R440	1-216-809-11	METAL CHIP	100	5%	1/10W
R441	1-216-803-11	METAL CHIP	33	5%	1/10W
R442	1-216-803-11	METAL CHIP	33	5%	1/10W
R443	1-216-797-11	METAL CHIP	10	5%	1/10W
R444	1-216-820-11	METAL CHIP	820	5%	1/10W
R445	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R446	1-216-820-11	METAL CHIP	820	5%	1/10W
R447	1-216-814-11	METAL CHIP	270	5%	1/10W
R448	1-216-814-11	METAL CHIP	270	5%	1/10W
R449	1-216-814-11	METAL CHIP	270	5%	1/10W
R450	1-216-814-11	METAL CHIP	270	5%	1/10W
R451	1-216-815-11	METAL CHIP	330	5%	1/10W
R452	1-216-813-11	METAL CHIP	220	5%	1/10W
R453	1-216-811-11	METAL CHIP	150	5%	1/10W
R454	1-216-805-11	METAL CHIP	47	5%	1/10W
R455	1-216-807-11	METAL CHIP	68	5%	1/10W
R456	1-216-808-11	METAL CHIP	82	5%	1/10W
R457	1-216-803-11	METAL CHIP	33	5%	1/10W
R458	1-216-833-11	METAL CHIP	10K	5%	1/10W
R459	1-216-821-11	METAL CHIP	1K	5%	1/10W
R460	1-216-821-11	METAL CHIP	1K	5%	1/10W
R461	1-218-269-11	METAL CHIP	360	5%	1/10W
R462	1-216-809-11	METAL CHIP	100	5%	1/10W
R463	1-216-847-11	METAL CHIP	150K	5%	1/10W
R464	1-216-818-11	METAL CHIP	560	5%	1/10W
R465	1-216-821-11	METAL CHIP	1K	5%	1/10W
R466	1-216-817-11	METAL CHIP	470	5%	1/10W
R467	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R468	1-216-815-11	METAL CHIP	330	5%	1/10W
R469	1-216-864-11	METAL CHIP	0	5%	1/10W
R470	1-216-813-11	METAL CHIP	220	5%	1/10W
R471	1-216-833-11	METAL CHIP	10K	5%	1/10W
R472	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R473	1-216-864-11	METAL CHIP	0	5%	1/10W
R476	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R477	1-218-269-11	METAL CHIP	360	5%	1/10W
R478	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R479	1-216-803-11	METAL CHIP	33	5%	1/10W

Ref. No.	Part No.	Description			Remark
R480	1-216-835-11	METAL CHIP	15K	5%	1/10W
R481	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R482	1-216-803-11	METAL CHIP	33	5%	1/10W
R483	1-216-835-11	METAL CHIP	15K	5%	1/10W
R484	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R485	1-216-803-11	METAL CHIP	33	5%	1/10W
R486	1-216-835-11	METAL CHIP	15K	5%	1/10W
R487	1-216-849-11	METAL CHIP	220K	5%	1/10W
R488	1-216-849-11	METAL CHIP	220K	5%	1/10W
R489	1-216-849-11	METAL CHIP	220K	5%	1/10W
R490	1-216-849-11	METAL CHIP	220K	5%	1/10W
R491	1-216-849-11	METAL CHIP	220K	5%	1/10W
R492	1-216-849-11	METAL CHIP	220K	5%	1/10W
R493	1-216-849-11	METAL CHIP	220K	5%	1/10W
R494	1-216-849-11	METAL CHIP	220K	5%	1/10W
R495	1-216-849-11	METAL CHIP	220K	5%	1/10W
R496	1-216-849-11	METAL CHIP	220K	5%	1/10W
R497	1-216-821-11	METAL CHIP	1K	5%	1/10W
R498	1-216-857-11	METAL CHIP	1M	5%	1/10W
R499	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R500	1-216-797-11	METAL CHIP	10	5%	1/10W
R501	1-216-797-11	METAL CHIP	10	5%	1/10W
R502	1-216-797-11	METAL CHIP	10	5%	1/10W
R503	1-216-797-11	METAL CHIP	10	5%	1/10W
R504	1-216-797-11	METAL CHIP	10	5%	1/10W
R505	1-216-797-11	METAL CHIP	10	5%	1/10W
R506	1-216-797-11	METAL CHIP	10	5%	1/10W
R507	1-216-797-11	METAL CHIP	10	5%	1/10W
R508	1-216-797-11	METAL CHIP	10	5%	1/10W
R509	1-216-844-11	METAL CHIP	82K	5%	1/10W
R510	1-216-844-11	METAL CHIP	82K	5%	1/10W
R511	1-216-844-11	METAL CHIP	82K	5%	1/10W
R512	1-216-844-11	METAL CHIP	82K	5%	1/10W
R513	1-216-844-11	METAL CHIP	82K	5%	1/10W
R514	1-216-803-11	METAL CHIP	33	5%	1/10W
R515	1-216-835-11	METAL CHIP	15K	5%	1/10W
R516	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R517	1-216-803-11	METAL CHIP	33	5%	1/10W
R533	1-216-797-11	METAL CHIP	10	5%	1/10W
R534	1-216-797-11	METAL CHIP	10	5%	1/10W
R535	1-216-797-11	METAL CHIP	10	5%	1/10W
R536	1-216-797-11	METAL CHIP	10	5%	1/10W
R537	1-216-797-11	METAL CHIP	10	5%	1/10W
R538	1-216-797-11	METAL CHIP	10	5%	1/10W
R539	1-216-797-11	METAL CHIP	10	5%	1/10W
R540	1-216-797-11	METAL CHIP	10	5%	1/10W
R541	1-216-797-11	METAL CHIP	10	5%	1/10W
R542	1-216-797-11	METAL CHIP	10	5%	1/10W
R543	1-216-797-11	METAL CHIP	10	5%	1/10W
R544	1-216-797-11	METAL CHIP	10	5%	1/10W
R545	1-216-797-11	METAL CHIP	10	5%	1/10W
R546	1-216-797-11	METAL CHIP	10	5%	1/10W
R547	1-216-797-11	METAL CHIP	10	5%	1/10W
R548	1-216-797-11	METAL CHIP	10	5%	1/10W
R549	1-216-797-11	METAL CHIP	10	5%	1/10W
R550	1-216-797-11	METAL CHIP	10	5%	1/10W
R551	1-216-797-11	METAL CHIP	10	5%	1/10W
R552	1-216-797-11	METAL CHIP	10	5%	1/10W

Ref. No.	Part No.	Description			Remark
R553	1-216-797-11	METAL CHIP	10	5%	1/10W
R554	1-216-797-11	METAL CHIP	10	5%	1/10W
R555	1-216-797-11	METAL CHIP	10	5%	1/10W
R556	1-216-797-11	METAL CHIP	10	5%	1/10W
R557	1-216-809-11	METAL CHIP	100	5%	1/10W
R558	1-216-809-11	METAL CHIP	100	5%	1/10W
R559	1-216-809-11	METAL CHIP	100	5%	1/10W
R560	1-216-809-11	METAL CHIP	100	5%	1/10W
R561	1-216-809-11	METAL CHIP	100	5%	1/10W
R562	1-216-809-11	METAL CHIP	100	5%	1/10W
⚠R563	1-217-477-00	FUSIBLE	4.7	5%	1W F
R601	1-216-815-11	METAL CHIP	330	5%	1/10W
R602	1-216-808-11	METAL CHIP	82	5%	1/10W
R603	1-216-813-11	METAL CHIP	220	5%	1/10W
R604	1-216-835-11	METAL CHIP	15K	5%	1/10W
R605	1-216-797-11	METAL CHIP	10	5%	1/10W
R606	1-216-797-11	METAL CHIP	10	5%	1/10W
R607	1-216-797-11	METAL CHIP	10	5%	1/10W
R608	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R609	1-216-803-11	METAL CHIP	33	5%	1/10W
R610	1-216-815-11	METAL CHIP	330	5%	1/10W
R611	1-216-815-11	METAL CHIP	330	5%	1/10W
R612	1-216-815-11	METAL CHIP	330	5%	1/10W
R613	1-216-815-11	METAL CHIP	330	5%	1/10W
R614	1-216-810-11	METAL CHIP	120	5%	1/10W
R615	1-216-797-11	METAL CHIP	10	5%	1/10W
R616	1-216-797-11	METAL CHIP	10	5%	1/10W
R617	1-216-810-11	METAL CHIP	120	5%	1/10W
R618	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R619	1-216-864-11	METAL CHIP	0	5%	1/10W
R620	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R621	1-216-864-11	METAL CHIP	0	5%	1/10W
⚠R624	1-243-961-21	METAL CHIP	0.1	5%	1W F
⚠R625	1-243-961-21	METAL CHIP	0.1	5%	1W F
R627	1-216-833-11	METAL CHIP	10K	5%	1/10W
R628	1-218-269-11	METAL CHIP	360	5%	1/10W
R629	1-216-849-11	METAL CHIP	220K	5%	1/10W
R630	1-216-849-11	METAL CHIP	220K	5%	1/10W
R631	1-216-844-11	METAL CHIP	82K	5%	1/10W
R632	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R636	1-216-815-11	METAL CHIP	330	5%	1/10W
R637	1-216-809-11	METAL CHIP	100	5%	1/10W
		< RELAY >			
RY301	1-515-614-11	RELAY			
RY302	1-515-614-11	RELAY			
		< THERMISTOR >			
THP301	1-805-359-21	THERMISTOR (2012)			
THP302	1-805-359-21	THERMISTOR (2012)			
THP303	1-805-359-21	THERMISTOR (2012)			
THP304	1-805-359-21	THERMISTOR (2012)			
THP305	1-805-359-21	THERMISTOR (2012)			
THP601	1-805-359-21	THERMISTOR (2012)			
		< TERMINAL BOARD >			
TM301	1-780-023-11	TERMINAL BOARD (SPEAKERS FRONT L)			
TM302	1-780-023-11	TERMINAL BOARD (SPEAKERS FRONT R)			
TM303	1-780-023-11	TERMINAL BOARD (SPEAKERS CENTER)			
TM304	1-780-023-11	TERMINAL BOARD (SPEAKERS SURROUND L)			
TM305	1-780-023-11	TERMINAL BOARD (SPEAKERS SURROUND R)			
TM601	1-780-023-11	TERMINAL BOARD (SPEAKERS SURROUND BACK)			
		< QUARTZ CRYSTAL UNIT >			
X300	1-795-660-21	QUARTZ CRYSTAL UNIT (49.152MHz)			
**********					
	A-4733-891-A	AUDIO I/O BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C102	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C104	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C105	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C106	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C107	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C108	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C109	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C110	1-124-589-11	ELECT	47uF	20%	16V
C111	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C112	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C113	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C114	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C115	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C116	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C118	1-126-965-11	ELECT	22uF	20%	50V
C119	1-126-965-11	ELECT	22uF	20%	50V
C120	1-126-965-11	ELECT	22uF	20%	50V
C121	1-126-965-11	ELECT	22uF	20%	50V
C122	1-126-965-11	ELECT	22uF	20%	50V
C123	1-126-965-11	ELECT	22uF	20%	50V
C124	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C125	1-119-824-11	ELECT	10uF	20%	50V
C126	1-124-589-11	ELECT	47uF	20%	16V
C127	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C129	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C131	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C132	1-126-965-11	ELECT	22uF	20%	50V
C133	1-126-965-11	ELECT	22uF	20%	50V
C134	1-126-965-11	ELECT	22uF	20%	50V
C135	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C136	1-126-965-11	ELECT	22uF	20%	50V
C137	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C138	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C139	1-126-960-11	ELECT	1uF	20%	50V
C140	1-126-960-11	ELECT	1uF	20%	50V
C141	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C142	1-126-933-11	ELECT	100uF	20%	16V
C143	1-126-965-11	ELECT	22uF	20%	50V
C144	1-126-965-11	ELECT	22uF	20%	50V
C145	1-126-965-11	ELECT	22uF	20%	50V
C146	1-126-965-11	ELECT	22uF	20%	50V
C1026	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

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

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

AUDIO I/O | BACK LIGHT (L)

Ref. No.	Part No.	Description			Remark
C1027	1-126-964-11	ELECT	10uF	20%	50V
C1028	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1029	1-126-964-11	ELECT	10uF	20%	50V
C1030	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1031	1-126-964-11	ELECT	10uF	20%	50V
C1032	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1033	1-126-964-11	ELECT	10uF	20%	50V
C1034	1-126-964-11	ELECT	10uF	20%	50V
C1035	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
CN101	1-784-774-11	CONNECTOR, FFC 13P			
CN102	1-779-289-11	CONNECTOR, FFC (LIF(NON-ZIF)) 21P			
		< DIODE >			
D101	8-719-988-61	DIODE 1SS355TE-17			
D102	8-719-056-85	DIODE UDZ-TE-17-8.2B			
D1001	8-719-056-85	DIODE UDZ-TE-17-8.2B			
D1002	8-719-056-85	DIODE UDZ-TE-17-8.2B			
		< FERRITE BEAD >			
FB101	1-469-152-11	FERRITE, EMI (SMD)			
FB102	1-469-152-11	FERRITE, EMI (SMD)			
		< IC >			
IC101	6-600-012-11	IC TOTX141L(RED) (DIGITAL OPTICAL OUT)			
IC102	6-600-014-01	IC TORX141L (DIGITAL MD/SAT)			
IC103	6-600-014-01	IC TORX141L (DIGITAL OPTICAL IN VIDEO2)			
IC104	6-600-014-01	IC TORX141L (DIGITAL TV/SAT)			
IC105	8-759-926-17	IC SN74HC153ANS			
IC106	8-759-242-70	IC TC7WU04F			
IC107	8-759-385-76	IC MC14052BDR2			
		< JACK >			
J101	1-778-517-11	JACK, PIN 6P (VIDEO1/2/TV SAT AUDIO IN)			
J103	1-784-689-11	JACK, PIN 1P (DIGITAL COAXIAL TV/SAT)			
		< TRANSISTOR >			
Q101	8-729-801-93	TRANSISTOR 2SD1387			
Q102	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q103	8-729-901-00	TRANSISTOR DTC124EK			
Q104	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q105	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1001	8-729-230-45	TRANSISTOR 2SC2458-YGR			
Q1002	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q1003	8-729-901-00	TRANSISTOR DTC124EK			
Q1004	8-729-901-00	TRANSISTOR DTC124EK			
		< RESISTOR >			
R101	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R102	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R103	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R104	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R105	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R106	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R107	1-218-285-11	METAL CHIP	75	5%	1/10W
R108	1-216-841-11	METAL CHIP	47K	5%	1/10W
R109	1-216-841-11	METAL CHIP	47K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R110	1-216-841-11	METAL CHIP	47K	5%	1/10W
R111	1-216-841-11	METAL CHIP	47K	5%	1/10W
R112	1-216-841-11	METAL CHIP	47K	5%	1/10W
R113	1-216-841-11	METAL CHIP	47K	5%	1/10W
R114	1-216-864-11	METAL CHIP	0	5%	1/10W
R115	1-216-864-11	METAL CHIP	0	5%	1/10W
R116	1-216-864-11	METAL CHIP	0	5%	1/10W
R117	1-216-864-11	METAL CHIP	0	5%	1/10W
R118	1-216-817-11	METAL CHIP	470	5%	1/10W
R119	1-216-853-11	METAL CHIP	470K	5%	1/10W
R120	1-216-841-11	METAL CHIP	47K	5%	1/10W
R121	1-216-864-11	METAL CHIP	0	5%	1/10W
R122	1-216-813-11	METAL CHIP	220	5%	1/10W
R123	1-216-821-11	METAL CHIP	1K	5%	1/10W
R124	1-216-845-11	METAL CHIP	100K	5%	1/10W
R125	1-216-821-11	METAL CHIP	1K	5%	1/10W
R126	1-216-845-11	METAL CHIP	100K	5%	1/10W
R127	1-216-813-11	METAL CHIP	220	5%	1/10W
R128	1-216-813-11	METAL CHIP	220	5%	1/10W
R129	1-216-813-11	METAL CHIP	220	5%	1/10W
R130	1-216-813-11	METAL CHIP	220	5%	1/10W
R131	1-216-809-11	METAL CHIP	100	5%	1/10W
R132	1-216-809-11	METAL CHIP	100	5%	1/10W
R133	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R134	1-216-809-11	METAL CHIP	100	5%	1/10W
R135	1-216-809-11	METAL CHIP	100	5%	1/10W
R136	1-216-809-11	METAL CHIP	100	5%	1/10W
R137	1-216-821-11	METAL CHIP	1K	5%	1/10W
R138	1-216-821-11	METAL CHIP	1K	5%	1/10W
R139	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R140	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R141	1-216-852-11	METAL CHIP	390K	5%	1/10W
R142	1-216-852-11	METAL CHIP	390K	5%	1/10W
R143	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R144	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1036	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1039	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1040	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1041	1-216-825-11	METAL CHIP	2.2K	5%	1/10W

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	1-688-574-11	BACK LIGHT (L) BOARD			
		**********			
		< CAPACITOR >			
C848	1-164-360-11	CERAMIC CHIP	0.1uF		16V
		< CONNECTOR >			
CNP804	1-770-011-41	CONNECTOR, BOARD TO BOARD 4P			
		< DIODE >			
D848	8-719-072-81	LED SELU5E23C-STP15 (LCD BACK LIGHT)			
		< RESISTOR >			
R808	1-216-833-11	METAL CHIP	10K	5%	1/10W

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BACK LIGHT (R) | COMPONENT | DISPLAY

Ref. No.	Part No.	Description			Remark
	1-688-575-11	BACK LIGHT (R) BOARD			
		**********			
		< CAPACITOR >			
C849	1-164-360-11	CERAMIC CHIP	0.1uF		16V
		< CONNECTOR >			
CNP803	1-770-011-41	CONNECTOR, BOARD TO BOARD 4P			
		< DIODE >			
D849	8-719-072-81	LED SELU5E23C-STP15 (LCD BACK LIGHT)			
		< RESISTOR >			
R809	1-216-833-11	METAL CHIP	10K	5%	1/10W
**********					
	1-688-752-11	COMPONENT BOARD			
		**********			
		< CAPACITOR >			
C761	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
* CNP712	1-568-943-11	PIN, CONNECTOR 5P			
		< JACK >			
J706	1-816-548-11	JACK, PIN 3P (TV/SAT COMPONENT VIDEO IN)			
		< RESISTOR >			
R761	1-218-285-11	METAL CHIP	75	5%	1/10W
R762	1-218-285-11	METAL CHIP	75	5%	1/10W
R763	1-218-285-11	METAL CHIP	75	5%	1/10W
R764	1-216-864-11	METAL CHIP	0	5%	1/10W
R765	1-216-864-11	METAL CHIP	0	5%	1/10W
R766	1-216-864-11	METAL CHIP	0	5%	1/10W
**********					
	A-4733-882-A	DISPLAY BOARD, COMPLETE			
		**********			
	4-247-899-01	ILLUMINATOR (LCD)			
	4-247-901-01	HOLDER (LCD)			
	4-247-902-01	DIFFUSER (LCD)			
	4-250-560-01	REFLECTOR (LCD)			
		< CAPACITOR >			
C801	1-126-513-11	ELECT	47uF	20%	6.3V
C802	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C803	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C804	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C841	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C842	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C843	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C844	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C845	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C847	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C851	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C852	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C853	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C854	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C855	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C860	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C861	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C862	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C863	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C864	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C865	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C866	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C867	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
		< CONNECTOR >			
CN801	1-779-560-21	CONNECTOR, FFC (LIF(NON-ZIF)) 23P			
CN802	1-750-195-11	CONNECTOR, BOARD TO BOARD 6P			
CN803	1-770-010-21	CONNECTOR, BOARD TO BOARD 4P			
CN804	1-770-010-21	CONNECTOR, BOARD TO BOARD 4P			
		< DIODE >			
D841	8-719-072-81	LED SELU5E23C-STP15 (DISC 1)			
D842	8-719-072-81	LED SELU5E23C-STP15 (DISC 2)			
D843	8-719-072-81	LED SELU5E23C-STP15 (DISC 3)			
D844	8-719-072-81	LED SELU5E23C-STP15 (DISC 4)			
D845	8-719-072-81	LED SELU5E23C-STP15 (DISC 5)			
D847	8-719-072-81	LED SELU5E23C-STP15 (MULTI CHANNEL DECODING)			
		< FERRITE BEAD >			
FB801	1-414-813-11	FERRITE, EMI (SMD)			
		< COIL >			
L801	1-412-060-11	INDUCTOR	22uH		
		< LIQUID CRYSTAL DISPLAY >			
LCD851	1-805-203-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< TRANSISTOR >			
Q841	8-729-901-00	TRANSISTOR DTC124EK			
Q842	8-729-901-00	TRANSISTOR DTC124EK			
Q843	8-729-901-00	TRANSISTOR DTC124EK			
Q844	8-729-901-00	TRANSISTOR DTC124EK			
Q845	8-729-901-00	TRANSISTOR DTC124EK			
Q846	8-729-901-00	TRANSISTOR DTC124EK			
Q848	8-729-901-00	TRANSISTOR DTC124EK			
		< RESISTOR >			
R801	1-216-833-11	METAL CHIP	10K	5%	1/10W
R802	1-216-833-11	METAL CHIP	10K	5%	1/10W
R803	1-216-833-11	METAL CHIP	10K	5%	1/10W
R804	1-216-833-11	METAL CHIP	10K	5%	1/10W
R805	1-216-833-11	METAL CHIP	10K	5%	1/10W
R807	1-216-833-11	METAL CHIP	10K	5%	1/10W
R811	1-216-821-11	METAL CHIP	1K	5%	1/10W
R812	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R813	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R821	1-216-821-11	METAL CHIP	1K	5%	1/10W

DISPLAY **HEADPHONE** **LINK**

Ref. No.	Part No.	Description			Remark
R822	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R823	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R824	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R825	1-216-833-11	METAL CHIP	10K	5%	1/10W
R826	1-216-837-11	METAL CHIP	22K	5%	1/10W
R827	1-216-841-11	METAL CHIP	47K	5%	1/10W
R831	1-216-821-11	METAL CHIP	1K	5%	1/10W
R832	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R841	1-216-813-11	METAL CHIP	220	5%	1/10W
R842	1-216-813-11	METAL CHIP	220	5%	1/10W
R843	1-216-813-11	METAL CHIP	220	5%	1/10W
R844	1-216-813-11	METAL CHIP	220	5%	1/10W
R845	1-216-813-11	METAL CHIP	220	5%	1/10W
R847	1-216-813-11	METAL CHIP	220	5%	1/10W
R848	1-216-813-11	METAL CHIP	220	5%	1/10W
R849	1-216-813-11	METAL CHIP	220	5%	1/10W
R851	1-216-805-11	METAL CHIP	47	5%	1/10W
R852	1-216-805-11	METAL CHIP	47	5%	1/10W
R853	1-216-805-11	METAL CHIP	47	5%	1/10W
R854	1-216-805-11	METAL CHIP	47	5%	1/10W
R855	1-216-805-11	METAL CHIP	47	5%	1/10W
R856	1-216-853-11	METAL CHIP	470K	5%	1/10W
R857	1-216-849-11	METAL CHIP	220K	5%	1/10W
R858	1-216-841-11	METAL CHIP	47K	5%	1/10W
R861	1-216-809-11	METAL CHIP	100	5%	1/10W
R862	1-216-809-11	METAL CHIP	100	5%	1/10W
R863	1-216-809-11	METAL CHIP	100	5%	1/10W
R864	1-216-809-11	METAL CHIP	100	5%	1/10W
R865	1-216-809-11	METAL CHIP	100	5%	1/10W
R866	1-216-809-11	METAL CHIP	100	5%	1/10W
R867	1-216-809-11	METAL CHIP	100	5%	1/10W
		< ROTARY ENCODER >			
RV801	1-418-725-41	ENCODER, ROTARY (12 TYPE) (VOLUME)			
		< SWITCH >			
S811	1-762-875-21	SWITCH, KEYBOARD (■)			
S812	1-762-875-21	SWITCH, KEYBOARD (❚❚)			
S813	1-762-875-21	SWITCH, KEYBOARD (▶)			
S821	1-762-875-21	SWITCH, KEYBOARD (⏏)			
S822	1-762-875-21	SWITCH, KEYBOARD (DISC 1)			
S823	1-762-875-21	SWITCH, KEYBOARD (DISC 2)			
S824	1-762-875-21	SWITCH, KEYBOARD (DISC 3)			
S825	1-762-875-21	SWITCH, KEYBOARD (DISC 4)			
S826	1-762-875-21	SWITCH, KEYBOARD (DISC 5)			
S827	1-762-875-21	SWITCH, KEYBOARD (EX-CHANGE)			
S828	1-762-875-21	SWITCH, KEYBOARD (DISC-SKIP)			
S831	1-762-875-21	SWITCH, KEYBOARD (I◀◀)			
S832	1-762-875-21	SWITCH, KEYBOARD (▶▶I)			

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Ref. No.	Part No.	Description			Remark
	1-688-573-11	HEADPHONE BOARD			
		**********			
		< CAPACITOR >			
C903	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C904	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C905	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C909	1-164-360-11	CERAMIC CHIP	0.1uF		16V
		< CONNECTOR >			
CN900	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE) 4P			
		< JACK >			
J900	1-816-482-11	JACK (PHONES)			
		< FILTER >			
L900	1-424-122-11	FILTER, NOISE			
L901	1-424-122-11	FILTER, NOISE			
L902	1-424-122-11	FILTER, NOISE			
L903	1-410-387-11	INDUCTOR	33uH		

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Ref. No.	Part No.	Description			Remark
	A-4733-884-A	LINK BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-126-947-11	ELECT	47uF	20%	16V
C702	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C743	1-164-505-11	CERAMIC CHIP	2.2uF		16V
		< CONNECTOR >			
CN701	1-779-281-11	CONNECTOR, FFC (LIF(NON-ZIF)) 13P			
* CN702	1-568-938-11	PIN, CONNECTOR 11P			
CN703	1-779-297-11	CONNECTOR, FFC (LIF(NON-ZIF)) 29P			
CN704	1-779-297-11	CONNECTOR, FFC (LIF(NON-ZIF)) 29P			
		< IC >			
IC701	8-759-356-03	IC BA6780			
		< TRANSISTOR >			
Q701	8-729-901-00	TRANSISTOR DTC124EK			
Q702	8-729-901-00	TRANSISTOR DTC124EK			
Q703	8-729-901-00	TRANSISTOR DTC124EK			
Q704	8-729-901-00	TRANSISTOR DTC124EK			
Q705	8-729-230-49	TRANSISTOR 2SC2712-YG			
		< RESISTOR >			
R701	1-216-809-11	METAL CHIP	100	5%	1/10W
R702	1-216-809-11	METAL CHIP	100	5%	1/10W
R703	1-216-809-11	METAL CHIP	100	5%	1/10W
R704	1-216-809-11	METAL CHIP	100	5%	1/10W
R705	1-216-833-11	METAL CHIP	10K	5%	1/10W
R706	1-216-833-11	METAL CHIP	10K	5%	1/10W
R707	1-216-833-11	METAL CHIP	10K	5%	1/10W
R708	1-216-833-11	METAL CHIP	10K	5%	1/10W
R709	1-216-842-11	METAL CHIP	56K	5%	1/10W
R710	1-216-821-11	METAL CHIP	1K	5%	1/10W
R711	1-216-813-11	METAL CHIP	220	5%	1/10W

Ref. No.	Part No.	Description			Remark
R712	1-217-907-11	RES-CHIP	1.8	5%	1/10W
R713	1-217-907-11	RES-CHIP	1.8	5%	1/10W
R714	1-217-907-11	RES-CHIP	1.8	5%	1/10W
R715	1-218-707-11	METAL CHIP	4.3K	5%	1/10W
R716	1-216-833-11	METAL CHIP	10K	5%	1/10W
R717	1-216-834-11	METAL CHIP	12K	5%	1/10W
R718	1-216-833-11	METAL CHIP	10K	5%	1/10W
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	A-4733-871-A	MB BOARD, COMPLETE			
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		< CAPACITOR >			
C1001	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C1002	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1003	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C1004	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1005	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C1006	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1007	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1008	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C1009	1-117-681-11	ELECT CHIP	100uF	20%	16V
C1010	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1011	1-165-669-21	ELECT CHIP	220uF	20%	6.3V
C1012	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C1013	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1014	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1015	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1018	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1019	1-117-681-11	ELECT CHIP	100uF	20%	16V
C1020	1-117-681-11	ELECT CHIP	100uF	20%	16V
C1021	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C1022	1-165-669-21	ELECT CHIP	220uF	20%	6.3V
C1023	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1024	1-117-370-11	CERAMIC CHIP	10uF		10V
C1025	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1026	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1027	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1028	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1029	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1030	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1031	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1032	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1033	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
C1034	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1035	1-164-868-11	CERAMIC CHIP	56PF	5%	50V
C1036	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1037	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C1038	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1039	1-126-246-11	ELECT CHIP	220uF	20%	4V
C1040	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1041	1-117-370-11	CERAMIC CHIP	10uF		10V
C1042	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C1043	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1044	1-164-935-11	CERAMIC CHIP	470PF	10%	50V
C1045	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1046	1-117-370-11	CERAMIC CHIP	10uF		10V
C1047	1-107-820-11	CERAMIC CHIP	0.1uF		16V

Ref. No.	Part No.	Description			Remark
C1048	1-126-246-11	ELECT CHIP	220uF	20%	4V
C1049	1-135-834-11	CERAMIC CHIP	2.2uF		6.3V
C1050	1-126-602-11	ELECT CHIP	3.3uF	20%	50V
C1051	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1052	1-126-246-11	ELECT CHIP	220uF	20%	4V
C1053	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C1054	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C1055	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1056	1-165-835-21	CERAMIC CHIP	27PF	2%	50V
C1057	1-165-835-21	CERAMIC CHIP	27PF	2%	50V
C1058	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1059	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1060	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1061	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1062	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1063	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1064	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1065	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1066	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1067	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1068	1-117-370-11	CERAMIC CHIP	10uF		10V
C1069	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1070	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1071	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1072	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1073	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1074	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1075	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1076	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1077	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1078	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1079	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1080	1-117-370-11	CERAMIC CHIP	10uF		10V
C1081	1-126-246-11	ELECT CHIP	220uF	20%	4V
C1082	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1083	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1084	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1085	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C1086	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1087	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1088	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1089	1-117-370-11	CERAMIC CHIP	10uF		10V
C1090	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1091	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1092	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1093	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1094	1-117-370-11	CERAMIC CHIP	10uF		10V
C1095	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1096	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1097	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1098	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1099	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1100	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1101	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C1102	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1103	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1104	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1105	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V

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Ref. No.	Part No.	Description			Remark
C1106	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V
C1107	1-124-779-00	ELECT CHIP	10uF	20%	16V
C1108	1-124-779-00	ELECT CHIP	10uF	20%	16V
C1109	1-124-779-00	ELECT CHIP	10uF	20%	16V
C1110	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V
C1111	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1112	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1113	1-124-779-00	ELECT CHIP	10uF	20%	16V
C1114	1-164-933-11	CERAMIC CHIP	220PF	10%	50V
C1115	1-164-933-11	CERAMIC CHIP	220PF	10%	50V
C1116	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1117	1-164-933-11	CERAMIC CHIP	220PF	10%	50V
C1118	1-164-933-11	CERAMIC CHIP	220PF	10%	50V
C1119	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1120	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1121	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C1124	1-117-681-11	ELECT CHIP	100uF	20%	16V
C1125	1-117-681-11	ELECT CHIP	100uF	20%	16V
C1127	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1128	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1130	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C1131	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1132	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1133	1-135-834-11	CERAMIC CHIP	2.2uF		6.3V
C1134	1-124-779-00	ELECT CHIP	10uF	20%	16V
C1135	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1136	1-126-209-11	ELECT CHIP	100uF	20%	4V
C1137	1-124-779-00	ELECT CHIP	10uF	20%	16V
C1138	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1139	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1141	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1142	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1143	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1144	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1145	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C1146	1-117-681-11	ELECT CHIP	100uF	20%	16V
C1149	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C1151	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C1152	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1153	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V
C1154	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1155	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C1156	1-127-772-81	CERAMIC CHIP	0.033uF	10%	10V
C1157	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C1158	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C1159	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C1160	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1161	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1162	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1163	1-127-772-81	CERAMIC CHIP	0.033uF	10%	10V
C1164	1-117-370-11	CERAMIC CHIP	10uF		10V
C1166	1-164-934-11	CERAMIC CHIP	330PF	10%	50V
C1167	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C1168	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1169	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1170	1-164-934-11	CERAMIC CHIP	330PF	10%	50V
C1172	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1177	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1178	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C1179	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C1181	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V
C1182	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C1184	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V
C1185	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1186	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C1187	1-165-845-21	TANTAL. CHIP	47uF	20%	6.3V
C1188	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1189	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1190	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1191	1-117-370-11	CERAMIC CHIP	10uF		10V
C1193	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1194	1-117-370-11	CERAMIC CHIP	10uF		10V
C1195	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V
C1196	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V
C1197	1-117-370-11	CERAMIC CHIP	10uF		10V
C1198	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V
C1199	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C1200	1-117-370-11	CERAMIC CHIP	10uF		10V
C1201	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C1202	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1203	1-117-370-11	CERAMIC CHIP	10uF		10V
C1204	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1205	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1206	1-117-370-11	CERAMIC CHIP	10uF		10V
C1207	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C1208	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C1209	1-126-246-11	ELECT CHIP	220uF	20%	4V
C1210	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1211	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1212	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1213	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1214	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1215	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1216	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1217	1-165-845-21	TANTAL. CHIP	47uF	20%	6.3V
C1218	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1220	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1221	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1222	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1224	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C1225	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1226	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1227	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C1228	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1229	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1230	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V
C1231	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1232	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1233	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C1234	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1235	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1236	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1237	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1238	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1239	1-117-370-11	CERAMIC CHIP	10uF		10V
C1240	1-107-820-11	CERAMIC CHIP	0.1uF		16V

Ref. No.	Part No.	Description			Remark
C1241	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1242	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1243	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1244	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1245	1-117-370-11	CERAMIC CHIP	10uF		10V
C1246	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1247	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1248	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1249	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1250	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1251	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1254	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1255	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1256	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1257	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1258	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1259	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1260	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1261	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1262	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1263	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1264	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1265	1-117-370-11	CERAMIC CHIP	10uF		10V
C1266	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C1267	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1268	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1269	1-117-370-11	CERAMIC CHIP	10uF		10V
C1270	1-117-370-11	CERAMIC CHIP	10uF		10V
C1271	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C1272	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1273	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1274	1-117-370-11	CERAMIC CHIP	10uF		10V
C1275	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1276	1-127-772-81	CERAMIC CHIP	0.033uF	10%	10V
C1277	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1278	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1279	1-126-246-11	ELECT CHIP	220uF	20%	4V
C1280	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1281	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1282	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1283	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1284	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C1285	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1286	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1287	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1288	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1289	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1290	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1291	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1292	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1293	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1294	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1295	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1296	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C1297	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C1298	1-117-748-81	CERAMIC CHIP	10PF		16V
C1299	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1300	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1301	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1302	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1303	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1304	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1305	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1306	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1307	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1308	1-127-772-81	CERAMIC CHIP	0.033uF	10%	10V
C1309	1-117-370-11	CERAMIC CHIP	10uF		10V
C1310	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1311	1-117-370-11	CERAMIC CHIP	10uF		10V
C1312	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1313	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1314	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C1315	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1316	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1317	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1318	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1319	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1320	1-126-246-11	ELECT CHIP	220uF	20%	4V
C1321	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1322	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1323	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1324	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1325	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1326	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1328	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1330	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1331	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1332	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1334	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1335	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1338	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1339	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1340	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1341	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1342	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1343	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1344	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1345	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1346	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1347	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1348	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1349	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1350	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1351	1-117-370-11	CERAMIC CHIP	10uF		10V
C1352	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1353	1-117-370-11	CERAMIC CHIP	10uF		10V
C1354	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1355	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1356	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1357	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1358	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1359	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1360	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1361	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1362	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1363	1-107-820-11	CERAMIC CHIP	0.1uF		16V

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Ref. No.	Part No.	Description			Remark
C1364	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1365	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1366	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1368	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1369	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C1370	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C1371	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1372	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1373	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1374	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C1375	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C1376	1-126-209-11	ELECT CHIP	100uF	20%	4V
C1378	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C1379	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1380	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1381	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1382	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1383	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1384	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1385	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1386	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1387	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1388	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1389	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1390	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C1391	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1392	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1393	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C1394	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1395	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1396	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1397	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C1398	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C1399	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C1400	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1401	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1402	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1403	1-117-446-81	CERAMIC CHIP	0.0039uF	10%	16V
C1404	1-117-949-81	CERAMIC CHIP	820PF	10%	50V
C1405	1-127-956-21	FILM CHIP	0.1uF	5%	16V
C1406	1-127-956-21	FILM CHIP	0.1uF	5%	16V
C1407	1-165-845-21	TANTAL. CHIP	47uF	20%	6.3V
C1408	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C1412	1-165-845-21	TANTAL. CHIP	47uF	20%	6.3V
C1413	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1414	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1415	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1416	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C1417	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1419	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1420	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1421	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1422	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		< CONNECTOR >			
CN1001	1-816-587-21	PIN, CONNECTOR (PC BOARD) 15P			
CN1002	1-794-509-11	PIN, CONNECTOR (PC BOARD) 3P			
CN1004	1-793-991-11	CONNECTOR, FFC/FPC 23P			
CN1005	1-793-989-21	CONNECTOR, FFC/FPC 13P			
CN1006	1-816-369-21	CONNECTOR, BOARD TO BOARD 25P			
CN1007	1-778-692-11	CONNECTOR, FFC/FPC 21P			
CN1008	1-778-692-11	CONNECTOR, FFC/FPC 21P			
CN1010	1-778-867-21	CONNECTOR, FFC/FPC 6P			
CN1011	1-784-364-21	CONNECTOR, FFC/FPC 4P			
CN1012	1-778-957-11	CONNECTOR, FFC/FPC 29P			
CN1013	1-764-177-11	PIN, CONNECTOR (SMD) (1.5mm) 7P			
CN1014	1-784-364-21	CONNECTOR, FFC/FPC 4P			
* CN1016	1-691-591-11	PIN, CONNECTOR (SMD) (1.5mm) 8P			
CN1017	1-784-364-21	CONNECTOR, FFC/FPC 4P			
		< DIODE >			
D1002	8-719-988-61	DIODE 1SS355TE-17			
D1003	8-719-988-61	DIODE 1SS355TE-17			
D1005	8-719-988-61	DIODE 1SS355TE-17			
D1008	8-719-049-09	DIODE 1SS367-T3SONY			
		< FERRITE BEAD >			
FB1002	1-469-324-21	FERRITE, EMI (SMD)			
FB1003	1-469-324-21	FERRITE, EMI (SMD)			
FB1004	1-469-324-21	FERRITE, EMI (SMD)			
FB1005	1-469-324-21	FERRITE, EMI (SMD)			
FB1006	1-469-324-21	FERRITE, EMI (SMD)			
FB1007	1-469-324-21	FERRITE, EMI (SMD)			
FB1008	1-469-324-21	FERRITE, EMI (SMD)			
FB1009	1-469-324-21	FERRITE, EMI (SMD)			
FB1010	1-469-324-21	FERRITE, EMI (SMD)			
FB1011	1-469-324-21	FERRITE, EMI (SMD)			
FB1012	1-469-324-21	FERRITE, EMI (SMD)			
FB1013	1-469-324-21	FERRITE, EMI (SMD)			
FB1014	1-469-324-21	FERRITE, EMI (SMD)			
FB1015	1-469-324-21	FERRITE, EMI (SMD)			
FB1016	1-469-324-21	FERRITE, EMI (SMD)			
FB1017	1-469-324-21	FERRITE, EMI (SMD)			
FB1018	1-469-324-21	FERRITE, EMI (SMD)			
FB1019	1-469-324-21	FERRITE, EMI (SMD)			
FB1020	1-500-283-11	INDUCTOR, FERRITE BEAD			
FB1021	1-469-324-21	FERRITE, EMI (SMD)			
FB1022	1-500-283-11	INDUCTOR, FERRITE BEAD			
FB1023	1-500-283-11	INDUCTOR, FERRITE BEAD			
FB1024	1-500-283-11	INDUCTOR, FERRITE BEAD			
FB1025	1-500-284-21	INDUCTOR, FERRITE BEAD			
FB1026	1-500-284-21	INDUCTOR, FERRITE BEAD			
FB1027	1-216-864-11	METAL CHIP	0	5%	1/10W
FB1030	1-469-324-21	FERRITE, EMI (SMD)			
FB1031	1-469-324-21	FERRITE, EMI (SMD)			
FB1032	1-500-283-11	INDUCTOR, FERRITE BEAD			
FB1033	1-500-284-21	INDUCTOR, FERRITE BEAD			
FB1034	1-500-284-21	INDUCTOR, FERRITE BEAD			
FB1035	1-500-283-11	INDUCTOR, FERRITE BEAD			
		< FILTER >			
FL1002	1-233-893-21	FILTER, CHIP EMI			
FL1003	1-234-177-21	FILTER, CHIP EMI			
FL1004	1-234-177-21	FILTER, CHIP EMI			
FL1005	1-234-177-21	FILTER, CHIP EMI			
FL1006	1-234-177-21	FILTER, CHIP EMI			

Ref. No.	Part No.	Description	Remark
FL1007	1-234-177-21	FILTER, CHIP EMI	
FL1008	1-234-177-21	FILTER, CHIP EMI	
FL1009	1-234-177-21	FILTER, CHIP EMI	
FL1010	1-234-177-21	FILTER, CHIP EMI	
FL1011	1-234-177-21	FILTER, CHIP EMI	
FL1012	1-234-177-21	FILTER, CHIP EMI	
FL1013	1-234-177-21	FILTER, CHIP EMI	
FL1014	1-234-177-21	FILTER, CHIP EMI	
FL1015	1-234-177-21	FILTER, CHIP EMI	
FL1016	1-234-177-21	FILTER, CHIP EMI	
FL1017	1-234-177-21	FILTER, CHIP EMI	
FL1018	1-234-177-21	FILTER, CHIP EMI	
FL1019	1-234-177-21	FILTER, CHIP EMI	
FL1020	1-234-177-21	FILTER, CHIP EMI	
FL1021	1-234-177-21	FILTER, CHIP EMI	
FL1022	1-234-177-21	FILTER, CHIP EMI	
FL1023	1-234-177-21	FILTER, CHIP EMI	
FL1024	1-234-177-21	FILTER, CHIP EMI	
FL1025	1-234-177-21	FILTER, CHIP EMI	
FL1026	1-234-177-21	FILTER, CHIP EMI	
FL1027	1-234-177-21	FILTER, CHIP EMI	
FL1028	1-234-177-21	FILTER, CHIP EMI	
		< IC >	
IC1001	8-759-583-47	IC uPC2933T-E2	
IC1002	8-759-473-95	IC uPC2905T-E1	
IC1003	8-759-473-95	IC uPC2905T-E1	
IC1004	8-759-583-47	IC uPC2933T-E2	
IC1005	6-700-398-01	IC uPC2918T-E1	
IC1007	8-759-473-95	IC uPC2905T-E1	
IC1008	8-759-680-48	IC TC7WH157FK(TE85R)	
IC1009	6-703-372-01	IC CXD9742Q	
IC1010	8-759-825-15	IC LC89056W-E	
IC1011	6-702-047-01	IC CXD9718Q	
IC1012	6-704-037-11	IC IC61LV6416-15TG(T&R)	
IC1013	6-803-473-01	IC MB91354APMT	
IC1014	8-759-680-48	IC TC7WH157FK(TE85R)	
IC1015	8-759-835-63	IC NJM2391DL1-26(TE1)	
IC1016	6-704-004-01	IC BR24L16F-WE2	
IC1017	6-701-834-01	IC PCM1802DBR	
IC1018	8-759-711-85	IC NJM4580E-D	
IC1020	8-759-460-80	IC BA10FP-E2	
IC1021	6-702-296-01	IC NJM79M09DL1A-TE1	
IC1022	8-759-701-40	IC NJM3404AM-T1	
IC1023	8-759-701-40	IC NJM3404AM-T1	
IC1024	6-702-157-01	IC FAN8035L	
IC1025	8-752-408-73	IC CXD3068Q	
IC1026	8-759-701-40	IC NJM3404AM-T1	
IC1027	6-703-552-01	IC TMC57929PGF-RDP	
IC1028	6-704-004-01	IC BR24L16F-WE2	
IC1029	8-753-211-15	IC CXP973064-232R	
IC1030	8-759-564-30	IC MSM51V18165B-60TSKR1	
IC1031	8-759-549-15	IC SN74LV245APWR	
IC1032	8-759-549-15	IC SN74LV245APWR	
IC1033	8-759-680-48	IC TC7WH157FK(TE85R)	
IC1034	6-702-336-01	IC MSM56V16160F-8TK7R1	
IC1035	8-759-637-50	IC TA48M025F(TE16L)	
IC1036	8-752-416-77	IC CXD2753R	

Ref. No.	Part No.	Description	Remark
IC1037	8-759-698-31	IC TC7WH74FK	
IC1038	8-759-058-64	IC TC7S32FU(TE85R)	
IC1039	6-700-407-01	IC SM8707GV-G-E2	
* IC1040	6-703-671-01	IC BR9040F-WE2	
IC1041	6-704-630-01	IC ZIVA5X-C2F	
IC1042	6-700-437-01	IC SN74ALVCH16841DGGR	
IC1043	6-704-069-01	IC MT48LC4M32B2TG-6	
IC1044	6-803-573-01	IC MBM29PL32BM90TN-HTV108	
IC1046	8-759-637-50	IC TA48M025F(TE16L)	
IC1047	6-701-814-01	IC CXD9698R	
IC1048	8-759-663-74	IC HY57V161610DTC-7TR	
IC1049	6-803-097-01	IC LC4064V-75TN48C-1581	
IC1050	6-701-079-01	IC ADV7300AKST	
IC1051	6-702-301-01	IC TK11125CSCL-G	
IC1052	8-759-473-95	IC uPC2905T-E1	
		< COIL >	
L1002	1-414-754-11	INDUCTOR 10uH	
L1003	1-414-754-11	INDUCTOR 10uH	
L1004	1-414-754-11	INDUCTOR 10uH	
L1005	1-414-754-11	INDUCTOR 10uH	
L1006	1-414-756-11	INDUCTOR 47uH	
L1007	1-414-756-11	INDUCTOR 47uH	
		< TRANSISTOR >	
Q1001	8-729-027-50	TRANSISTOR DTC123JKA-T146	
Q1002	8-729-027-50	TRANSISTOR DTC123JKA-T146	
Q1003	8-729-016-29	TRANSISTOR 2SA1244LB	
Q1004	8-729-016-29	TRANSISTOR 2SA1244LB	
Q1005	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1006	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1007	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q1008	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q1011	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1012	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1013	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1014	8-729-900-53	TRANSISTOR DTC114EK	
Q1015	8-729-900-53	TRANSISTOR DTC114EK	
		< RESISTOR >	
R1001	1-216-198-00	RES-CHIP 1K 5% 1/8W	
R1002	1-216-198-00	RES-CHIP 1K 5% 1/8W	
R1003	1-216-198-00	RES-CHIP 1K 5% 1/8W	
R1004	1-216-198-00	RES-CHIP 1K 5% 1/8W	
R1005	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R1006	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R1007	1-216-864-11	METAL CHIP 0 5% 1/10W	
R1008	1-216-864-11	METAL CHIP 0 5% 1/10W	
R1009	1-216-789-11	METAL CHIP 2.2 5% 1/10W	
R1016	1-216-864-11	METAL CHIP 0 5% 1/10W	
R1017	1-216-864-11	METAL CHIP 0 5% 1/10W	
R1018	1-216-864-11	METAL CHIP 0 5% 1/10W	
R1019	1-216-864-11	METAL CHIP 0 5% 1/10W	
R1026	1-216-864-11	METAL CHIP 0 5% 1/10W	
R1063	1-216-864-11	METAL CHIP 0 5% 1/10W	
R1064	1-216-864-11	METAL CHIP 0 5% 1/10W	
R1065	1-216-864-11	METAL CHIP 0 5% 1/10W	
R1066	1-216-864-11	METAL CHIP 0 5% 1/10W	

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Ref. No.	Part No.	Description			Remark
R1067	1-216-864-11	METAL CHIP	0	5%	1/10W
R1068	1-216-864-11	METAL CHIP	0	5%	1/10W
R1086	1-216-864-11	METAL CHIP	0	5%	1/10W
R1088	1-216-864-11	METAL CHIP	0	5%	1/10W
R1092	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1093	1-216-797-11	METAL CHIP	10	5%	1/10W
R1094	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1095	1-216-809-11	METAL CHIP	100	5%	1/10W
R1096	1-216-809-11	METAL CHIP	100	5%	1/10W
R1097	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1098	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1100	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1101	1-216-809-11	METAL CHIP	100	5%	1/10W
R1102	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1103	1-216-809-11	METAL CHIP	100	5%	1/10W
R1104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1105	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1106	1-216-809-11	METAL CHIP	100	5%	1/10W
R1107	1-216-801-11	METAL CHIP	22	5%	1/10W
R1108	1-216-801-11	METAL CHIP	22	5%	1/10W
R1109	1-216-864-11	METAL CHIP	0	5%	1/10W
R1110	1-216-801-11	METAL CHIP	22	5%	1/10W
R1111	1-216-801-11	METAL CHIP	22	5%	1/10W
R1112	1-216-809-11	METAL CHIP	100	5%	1/10W
R1113	1-216-809-11	METAL CHIP	100	5%	1/10W
R1114	1-216-815-11	METAL CHIP	330	5%	1/10W
R1115	1-216-801-11	METAL CHIP	22	5%	1/10W
R1116	1-216-801-11	METAL CHIP	22	5%	1/10W
R1117	1-216-809-11	METAL CHIP	100	5%	1/10W
R1118	1-216-809-11	METAL CHIP	100	5%	1/10W
R1119	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1120	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1121	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1122	1-216-809-11	METAL CHIP	100	5%	1/10W
R1123	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1124	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R1125	1-216-809-11	METAL CHIP	100	5%	1/10W
R1126	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1127	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1128	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1129	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R1130	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1131	1-216-811-11	METAL CHIP	150	5%	1/10W
R1132	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1133	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1134	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1135	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1136	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1137	1-216-809-11	METAL CHIP	100	5%	1/10W
R1138	1-216-809-11	METAL CHIP	100	5%	1/10W
R1139	1-216-809-11	METAL CHIP	100	5%	1/10W
R1140	1-216-809-11	METAL CHIP	100	5%	1/10W
R1141	1-216-809-11	METAL CHIP	100	5%	1/10W
R1142	1-216-809-11	METAL CHIP	100	5%	1/10W
R1143	1-216-809-11	METAL CHIP	100	5%	1/10W
R1144	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1145	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1146	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1147	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1148	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1149	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1150	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1151	1-216-809-11	METAL CHIP	100	5%	1/10W
R1152	1-216-809-11	METAL CHIP	100	5%	1/10W
R1153	1-216-809-11	METAL CHIP	100	5%	1/10W
R1154	1-216-809-11	METAL CHIP	100	5%	1/10W
R1155	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1156	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1157	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1158	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1159	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1161	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1162	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1163	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1164	1-216-864-11	METAL CHIP	0	5%	1/10W
R1165	1-216-809-11	METAL CHIP	100	5%	1/10W
R1166	1-216-797-11	METAL CHIP	10	5%	1/10W
R1167	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1171	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1174	1-216-797-11	METAL CHIP	10	5%	1/10W
R1175	1-216-809-11	METAL CHIP	100	5%	1/10W
R1178	1-216-809-11	METAL CHIP	100	5%	1/10W
R1187	1-216-809-11	METAL CHIP	100	5%	1/10W
R1190	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1191	1-216-809-11	METAL CHIP	100	5%	1/10W
R1192	1-216-809-11	METAL CHIP	100	5%	1/10W
R1193	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1195	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1196	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1197	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1198	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1199	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1200	1-216-797-11	METAL CHIP	10	5%	1/10W
R1201	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1202	1-216-864-11	METAL CHIP	0	5%	1/10W
R1203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1204	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1205	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1206	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1207	1-216-809-11	METAL CHIP	100	5%	1/10W
R1208	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1210	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1211	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1217	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1218	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1219	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1220	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1221	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1222	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1223	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1225	1-216-809-11	METAL CHIP	100	5%	1/10W
R1226	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1227	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1228	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1229	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1230	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1231	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1232	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1233	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1234	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1235	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1236	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1237	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1242	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1243	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1244	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1245	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1246	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1247	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1248	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1250	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1251	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1252	1-216-847-11	METAL CHIP	150K	5%	1/10W
R1253	1-216-847-11	METAL CHIP	150K	5%	1/10W
R1255	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1256	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1257	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1258	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1259	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1260	1-216-843-11	METAL CHIP	68K	5%	1/10W
R1261	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1264	1-216-864-11	METAL CHIP	0	5%	1/10W
R1265	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1266	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1267	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1268	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1269	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1271	1-216-842-11	METAL CHIP	56K	5%	1/10W
R1272	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1273	1-216-834-11	METAL CHIP	12K	5%	1/10W
R1274	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1275	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1276	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1277	1-216-842-11	METAL CHIP	56K	5%	1/10W
R1278	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1279	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1280	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1281	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1282	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1283	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1284	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1287	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1289	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R1290	1-216-864-11	METAL CHIP	0	5%	1/10W
R1291	1-216-864-11	METAL CHIP	0	5%	1/10W
R1293	1-218-747-11	METAL CHIP	200K	5%	1/10W
R1294	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1295	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1296	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1297	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1299	1-216-842-11	METAL CHIP	56K	5%	1/10W
R1300	1-216-842-11	METAL CHIP	56K	5%	1/10W
R1303	1-216-839-11	METAL CHIP	33K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1306	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1308	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1309	1-216-864-11	METAL CHIP	0	5%	1/10W
R1310	1-216-864-11	METAL CHIP	0	5%	1/10W
R1311	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1313	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1314	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1316	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1317	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1319	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1320	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1321	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1322	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1323	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1327	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1331	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1332	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1333	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1337	1-216-815-11	METAL CHIP	330	5%	1/10W
R1341	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1343	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1344	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1345	1-216-864-11	METAL CHIP	0	5%	1/10W
R1346	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1347	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1348	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1351	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1352	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1353	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1355	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1356	1-216-864-11	METAL CHIP	0	5%	1/10W
R1357	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1358	1-216-864-11	METAL CHIP	0	5%	1/10W
R1359	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1362	1-216-864-11	METAL CHIP	0	5%	1/10W
R1363	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1364	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R1366	1-216-809-11	METAL CHIP	100	5%	1/10W
R1367	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1368	1-216-847-11	METAL CHIP	150K	5%	1/10W
R1369	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1370	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1371	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R1372	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1373	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1374	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1377	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1379	1-216-864-11	METAL CHIP	0	5%	1/10W
R1380	1-216-809-11	METAL CHIP	100	5%	1/10W
R1381	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1382	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1383	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1384	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1385	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1386	1-216-864-11	METAL CHIP	0	5%	1/10W
R1387	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1388	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1389	1-216-801-11	METAL CHIP	22	5%	1/10W

MB

Ref. No.	Part No.	Description			Remark
R1390	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1391	1-216-801-11	METAL CHIP	22	5%	1/10W
R1392	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1393	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1394	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1395	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R1396	1-216-801-11	METAL CHIP	22	5%	1/10W
R1397	1-216-801-11	METAL CHIP	22	5%	1/10W
R1398	1-216-809-11	METAL CHIP	100	5%	1/10W
R1399	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1400	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1401	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1402	1-216-809-11	METAL CHIP	100	5%	1/10W
R1403	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1404	1-216-809-11	METAL CHIP	100	5%	1/10W
R1405	1-216-801-11	METAL CHIP	22	5%	1/10W
R1406	1-216-809-11	METAL CHIP	100	5%	1/10W
R1407	1-216-809-11	METAL CHIP	100	5%	1/10W
R1408	1-216-801-11	METAL CHIP	22	5%	1/10W
R1409	1-216-864-11	METAL CHIP	0	5%	1/10W
R1411	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1412	1-216-801-11	METAL CHIP	22	5%	1/10W
R1413	1-216-801-11	METAL CHIP	22	5%	1/10W
R1414	1-216-809-11	METAL CHIP	100	5%	1/10W
R1415	1-216-801-11	METAL CHIP	22	5%	1/10W
R1416	1-216-801-11	METAL CHIP	22	5%	1/10W
R1417	1-216-801-11	METAL CHIP	22	5%	1/10W
R1418	1-216-801-11	METAL CHIP	22	5%	1/10W
R1419	1-216-801-11	METAL CHIP	22	5%	1/10W
R1420	1-216-801-11	METAL CHIP	22	5%	1/10W
R1421	1-216-809-11	METAL CHIP	100	5%	1/10W
R1422	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1423	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1424	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1425	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1426	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1427	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1428	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1429	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1430	1-216-809-11	METAL CHIP	100	5%	1/10W
R1431	1-216-809-11	METAL CHIP	100	5%	1/10W
R1432	1-216-809-11	METAL CHIP	100	5%	1/10W
R1433	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1434	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1435	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1436	1-216-813-11	METAL CHIP	220	5%	1/10W
R1437	1-216-801-11	METAL CHIP	22	5%	1/10W
R1439	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1440	1-216-864-11	METAL CHIP	0	5%	1/10W
R1441	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1442	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1443	1-216-809-11	METAL CHIP	100	5%	1/10W
R1444	1-216-801-11	METAL CHIP	22	5%	1/10W
R1446	1-216-809-11	METAL CHIP	100	5%	1/10W
R1448	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1450	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1451	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1452	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1453	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1454	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1455	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1456	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1457	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1458	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1459	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1460	1-216-809-11	METAL CHIP	100	5%	1/10W
R1461	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1462	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1463	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1464	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1465	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1466	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1467	1-216-809-11	METAL CHIP	100	5%	1/10W
R1468	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1469	1-216-803-11	METAL CHIP	33	5%	1/10W
R1470	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1471	1-216-805-11	METAL CHIP	47	5%	1/10W
R1472	1-216-809-11	METAL CHIP	100	5%	1/10W
R1473	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1474	1-216-813-11	METAL CHIP	220	5%	1/10W
R1475	1-216-809-11	METAL CHIP	100	5%	1/10W
R1476	1-216-809-11	METAL CHIP	100	5%	1/10W
R1477	1-216-801-11	METAL CHIP	22	5%	1/10W
R1478	1-216-801-11	METAL CHIP	22	5%	1/10W
R1479	1-216-801-11	METAL CHIP	22	5%	1/10W
R1480	1-216-801-11	METAL CHIP	22	5%	1/10W
R1481	1-216-801-11	METAL CHIP	22	5%	1/10W
R1482	1-216-801-11	METAL CHIP	22	5%	1/10W
R1483	1-216-801-11	METAL CHIP	22	5%	1/10W
R1484	1-216-809-11	METAL CHIP	100	5%	1/10W
R1486	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1487	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1488	1-216-864-11	METAL CHIP	0	5%	1/10W
R1489	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1490	1-216-864-11	METAL CHIP	0	5%	1/10W
R1491	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1492	1-216-803-11	METAL CHIP	33	5%	1/10W
R1493	1-216-803-11	METAL CHIP	33	5%	1/10W
R1494	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1495	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1496	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1497	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1498	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1499	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1500	1-216-864-11	METAL CHIP	0	5%	1/10W
R1501	1-216-809-11	METAL CHIP	100	5%	1/10W
R1502	1-216-803-11	METAL CHIP	33	5%	1/10W
R1503	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1504	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1506	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1508	1-218-829-11	METAL CHIP	180	0.5%	1/10W
R1509	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1510	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1516	1-216-801-11	METAL CHIP	22	5%	1/10W
R1517	1-216-801-11	METAL CHIP	22	5%	1/10W
R1518	1-216-807-11	METAL CHIP	68	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1519	1-216-801-11	METAL CHIP	22	5%	1/10W
R1520	1-216-807-11	METAL CHIP	68	5%	1/10W
R1521	1-216-801-11	METAL CHIP	22	5%	1/10W
R1522	1-216-801-11	METAL CHIP	22	5%	1/10W
R1523	1-216-801-11	METAL CHIP	22	5%	1/10W
R1531	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1532	1-216-809-11	METAL CHIP	100	5%	1/10W
R1533	1-216-809-11	METAL CHIP	100	5%	1/10W
R1537	1-218-285-11	METAL CHIP	75	5%	1/10W
R1538	1-216-809-11	METAL CHIP	100	5%	1/10W
R1539	1-218-292-11	METAL CHIP	20K	5%	1/10W
R1555	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1565	1-216-864-11	METAL CHIP	0	5%	1/10W
R1566	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R1567	1-216-864-11	METAL CHIP	0	5%	1/10W
R1569	1-216-864-11	METAL CHIP	0	5%	1/10W
R1570	1-216-864-11	METAL CHIP	0	5%	1/10W
R1577	1-216-864-11	METAL CHIP	0	5%	1/10W
R1580	1-216-809-11	METAL CHIP	100	5%	1/10W
R1582	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1584	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1589	1-216-819-11	METAL CHIP	680	5%	1/10W
R1590	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1591	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1592	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1593	1-216-809-11	METAL CHIP	100	5%	1/10W
R1594	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R1595	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R1596	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R1597	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R1598	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R1599	1-218-834-11	METAL CHIP	300	0.5%	1/10W
R1611	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1612	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1613	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1614	1-216-801-11	METAL CHIP	22	5%	1/10W
R1615	1-216-801-11	METAL CHIP	22	5%	1/10W
R1616	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1617	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1618	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1619	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1620	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1621	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1622	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R1623	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1624	1-216-864-11	METAL CHIP	0	5%	1/10W

< NETWORK RESISTOR >

RB1001	1-234-524-21	RES, CHIP NETWORK 33X4 (3216)
RB1002	1-234-524-21	RES, CHIP NETWORK 33X4 (3216)
RB1003	1-234-524-21	RES, CHIP NETWORK 33X4 (3216)
RB1004	1-234-524-21	RES, CHIP NETWORK 33X4 (3216)
RB1005	1-234-524-21	RES, CHIP NETWORK 33X4 (3216)
RB1006	1-234-524-21	RES, CHIP NETWORK 33X4 (3216)
RB1007	1-233-388-11	RES, CHIP NETWORK 68X4 (3216)
RB1008	1-233-388-11	RES, CHIP NETWORK 68X4 (3216)
RB1009	1-233-388-11	RES, CHIP NETWORK 68X4 (3216)
RB1010	1-233-388-11	RES, CHIP NETWORK 68X4 (3216)
RB1011	1-233-388-11	RES, CHIP NETWORK 68X4 (3216)
RB1012	1-233-388-11	RES, CHIP NETWORK 68X4 (3216)
RB1013	1-233-388-11	RES, CHIP NETWORK 68X4 (3216)
RB1014	1-233-388-11	RES, CHIP NETWORK 68X4 (3216)
RB1019	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)
RB1020	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)
RB1021	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)
RB1022	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)

< VARIABLE RESISTOR >

RV1001	1-223-583-11	RES, ADJ, CARBON 1K
RV1002	1-223-583-11	RES, ADJ, CARBON 1K

< VIBRATOR >

X1001	1-781-465-21	VIBRATOR, CRYSTAL (12.288MHz)
X1002	1-579-993-21	VIBRATOR, CERAMIC (13.5MHz)
X1003	1-781-893-21	VIBRATOR, CERAMIC (CHIP TYPE) (12.5MHz)
X1004	1-781-945-21	VIBRATOR, CERAMIC (20MHz)
X1005	1-795-630-11	VIBRATOR, CRYSTAL (27MHz)

****

MD-94 BOARD

****

< CONNECTOR >

CN001	1-506-490-21	PIN, CONNECTOR 11P
CN002	1-784-767-11	CONNECTOR, FFC 6P
* CN003	1-564-013-11	PIN, CONNECTOR 3P
CN004	1-506-481-11	PIN, CONNECTOR 2P

< SWITCH >

S001	1-786-514-21	SWITCH, LEVER (SLIDE) (TRY POSITION DETECT SECTION)

****

	A-4733-880-A	POWER BOARD, COMPLETE

****

	1-533-217-31	HOLDER, FUSE (FH901,FH902)
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3

< CAPACITOR >

⚠C901	1-117-923-11	FILM	0.33uF	20%	275V
⚠C902	1-126-933-11	ELECT	100uF	20%	16V
C903	1-128-582-11	ELECT	10uF	20%	63V
⚠C904	1-113-920-11	CERAMIC	0.0022uF	20%	250V
⚠C905	1-113-920-11	CERAMIC	0.0022uF	20%	250V
⚠C906	1-113-920-11	CERAMIC	0.0022uF	20%	250V
⚠C907	1-115-165-11	FILM	0.1uF	20%	275V
⚠C908	1-113-904-51	CERAMIC	0.0015uF	20%	250V
⚠C909	1-113-920-11	CERAMIC	0.0022uF	20%	250V
C910	1-162-290-31	CERAMIC	470PF	10%	50V
⚠C911	1-113-920-11	CERAMIC	0.0022uF	20%	250V
⚠C912	1-113-920-11	CERAMIC	0.0022uF	20%	250V
⚠C913	1-126-966-11	ELECT	33uF	20%	35V
C914	1-110-620-11	ELECT	220uF	20%	63V
⚠C915	1-137-150-11	MYLAR	0.01uF	5%	50V
⚠C916	1-100-018-11	ELECT	1000uF	20%	200V
C917	1-137-150-11	MYLAR	0.01uF	5%	50V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

POWER

Ref. No.	Part No.	Description			Remark
⚠C918	1-136-270-11	FILM	47PF	5%	630V
⚠C919	1-126-963-11	ELECT	4.7uF	20%	50V
⚠C920	1-135-623-11	FILM	0.01uF	5%	630V
⚠C921	1-130-471-00	MYLAR	0.001uF	5%	50V
⚠C922	1-136-555-11	FILM	0.0022uF	5%	630V
⚠C923	1-129-898-00	FILM	0.0022uF	5%	630V
C924	1-117-306-11	ELECT	3300uF	20%	16V
C925	1-117-306-11	ELECT	3300uF	20%	16V
C926	1-117-332-11	ELECT	2200uF	20%	25V
⚠C927	1-113-904-51	CERAMIC	0.0015uF	20%	250V
C928	1-130-489-00	MYLAR	0.033uF	5%	50V
C929	1-127-888-11	CERAMIC	0.1uF	10%	50V
⚠C930	1-130-338-61	FILM	0.01uF	5%	630V
C931	1-135-683-11	ELECT	330uF		25V
C932	1-110-622-11	ELECT	1000uF	20%	63V
C933	1-110-622-11	ELECT	1000uF	20%	63V
C934	1-110-622-11	ELECT	1000uF	20%	63V
C935	1-127-888-11	CERAMIC	0.1uF	10%	50V
C936	1-124-579-51	ELECT	1000uF	20%	16V
C937	1-126-768-11	ELECT	2200uF	20%	16V
C938	1-126-176-11	ELECT	220uF	20%	10V
C939	1-162-294-31	CERAMIC	0.001uF	10%	50V
C940	1-126-933-11	ELECT	100uF	20%	16V
C941	1-104-665-11	ELECT	100uF	20%	10V
C942	1-127-888-11	CERAMIC	0.1uF	10%	50V
C943	1-126-934-11	ELECT	220uF	20%	16V
C944	1-128-582-11	ELECT	10uF	20%	63V
C945	1-127-888-11	CERAMIC	0.1uF	10%	50V
C946	1-126-964-11	ELECT	10uF	20%	50V
C947	1-126-924-11	ELECT	330uF	20%	10V
C948	1-126-934-11	ELECT	220uF	20%	16V
C949	1-126-237-11	ELECT	1200uF	20%	6.3V
C950	1-127-888-11	CERAMIC	0.1uF	10%	50V
C951	1-162-282-31	CERAMIC	100PF	10%	50V
⚠C953	1-113-904-51	CERAMIC	0.0015uF	20%	250V
C954	1-127-888-11	CERAMIC	0.1uF	10%	50V
⚠C955	1-162-286-31	CERAMIC	220PF	10%	50V
⚠C956	1-137-365-11	MYLAR	0.0015uF	5%	50V
C958	1-104-665-11	ELECT	100uF	20%	10V
		< CONNECTOR >			
CN300	1-564-320-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
CN301	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
* CN901	1-564-717-11	PIN, CONNECTOR (SMALL TYPE) 15P			
CNP901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CNP903	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< DIODE >			
D901	8-719-933-91	DIODE HZS18-1L			
⚠D902	8-719-970-02	DIODE 1SR139-400-T31			
⚠D903	8-719-200-93	DIODE 11EQS10-TA2			
⚠D904	8-719-970-02	DIODE 1SR139-400-T31			
⚠D905	6-500-391-01	DIODE RBV-604-01			
⚠D906	8-719-200-93	DIODE 11EQS10-TA2			
D907	6-500-072-01	DIODE SARS01-V1			
⚠D908	8-719-986-54	DIODE HZS24-1LTA			
⚠D909	8-719-986-47	DIODE HZS20-2LTA			
D910	8-719-991-33	DIODE 1SS133T-77			

Ref. No.	Part No.	Description	Remark
⚠D911	6-500-241-01	DIODE SARS03	
⚠D912	8-719-200-93	DIODE 11EQS10-TA2	
D913	8-719-058-38	DIODE FMN-G12S	
D914	8-719-082-89	DIODE RN2ZV1	
D915	8-719-082-89	DIODE RN2ZV1	
⚠D916	8-719-986-54	DIODE HZS24-1LTA	
D917	8-719-313-14	DIODE FML-22S	
D918	8-719-301-45	DIODE RK14	
D919	8-719-109-85	DIODE RD5.1ES-B2	
D920	8-719-024-99	DIODE 11ES2-NTA2B	
D921	8-719-024-99	DIODE 11ES2-NTA2B	
D923	8-719-301-45	DIODE RK14	
D924	8-719-991-33	DIODE 1SS133T-77	
D925	8-719-109-89	DIODE RD5.6ES-B2	
D926	8-719-109-89	DIODE RD5.6ES-B2	
D927	8-719-986-38	DIODE HZS16-1LTA	
D928	8-719-991-33	DIODE 1SS133T-77	
⚠D929	8-719-200-93	DIODE 11EQS10-TA2	
D930	8-719-991-33	DIODE 1SS133T-77	
D931	8-719-991-33	DIODE 1SS133T-77	
D932	8-719-072-28	DIODE MTZJ-T-72-10B	
		< EARTH TERMINAL >	
* EP901	1-537-738-21	TERMINAL, EARTH	
* EP902	1-537-738-21	TERMINAL, EARTH	
* EP903	1-537-738-21	TERMINAL, EARTH	
* EP904	1-537-738-21	TERMINAL, EARTH	
* EP905	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC901	6-702-386-01	IC STR-G7421	
⚠IC902	6-702-338-01	IC STR-F6238S	
IC903	8-749-920-44	IC SE-012N	
IC904	6-700-812-01	IC SI-8050JF	
IC905	6-700-388-01	IC SE-B2	
IC906	8-759-245-86	IC TA79012S	
IC907	8-759-473-41	IC BA10T	
IC908	8-759-445-59	IC BA033T	
IC909	8-759-932-23	IC TLC272CP	
IC910	8-759-659-28	IC SI-8033S	
IC911	8-759-245-86	IC TA79012S	
IC912	8-759-332-29	IC M51945BL	
		< COIL >	
L901	1-400-584-11	BEAD, FERRITE	
L901	1-419-505-11	COIL, CHOKE 10uH	
L902	1-456-545-11	COIL, CHOKE 100uH	
L903	1-456-545-11	COIL, CHOKE 100uH	
L904	1-456-545-11	COIL, CHOKE 100uH	
L905	1-456-545-11	COIL, CHOKE 100uH	
		< LINE FILTER >	
⚠LF901	1-456-206-11	COIL, LINE FILTER	
⚠LF902	1-456-206-11	COIL, LINE FILTER	
		< PHOTO COUPLER >	
⚠PC901	8-749-019-04	PHOTO COUPLER TLP421	

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Ref. No.	Part No.	Description				Remark
⚠PC902	8-749-019-04	PHOTO COUPLER TLP421				
		< TRANSISTOR >				
Q901	8-729-025-04	TRANSISTOR 2SC3852A				
Q902	8-729-900-63	TRANSISTOR DTA124ES				
Q903	8-729-119-76	TRANSISTOR 2SA1175-HFE				
⚠Q904	8-729-025-04	TRANSISTOR 2SC3852A				
Q905	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q906	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q907	8-729-900-63	TRANSISTOR DTA124ES				
Q908	8-729-900-36	TRANSISTOR DTC124ES				
Q910	8-729-021-73	TRANSISTOR 2SC2229-OY				
Q911	8-729-900-36	TRANSISTOR DTC124ES				
Q912	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q913	8-729-900-36	TRANSISTOR DTC124ES				
Q914	8-729-025-04	TRANSISTOR 2SC3852A				
Q915	8-729-900-63	TRANSISTOR DTA124ES				
Q916	8-729-140-96	TRANSISTOR 2SD774-34				
Q917	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q918	8-729-620-05	TRANSISTOR 2SC2603-EF				
Q919	8-729-900-36	TRANSISTOR DTC124ES				
Q920	8-729-900-36	TRANSISTOR DTC124ES				
		< RESISTOR >				
R901	1-247-843-11	CARBON	3.3K	5%	1/4W	
⚠R902	1-219-237-11	SOLID	3.3M	20%	1/2W	F
R903	1-247-807-31	CARBON	100	5%	1/4W	
R904	1-249-427-11	CARBON	6.8K	5%	1/4W	
⚠R905	1-219-984-51	METAL	0.1	5%	2W	F
⚠R906	1-219-984-51	METAL	0.1	5%	2W	F
R907	1-219-237-11	SOLID	3.3M	20%	1/2W	
⚠R908	1-220-906-11	METAL	0.15	10%	2W	F
R909	1-249-415-11	CARBON	680	5%	1/4W	
R910	1-249-409-11	CARBON	220	5%	1/4W	
⚠R911	1-215-900-61	METAL OXIDE	22K	5%	2W	F
⚠R912	1-245-261-61	METAL OXIDE	0.12	5%	2W	F
⚠R913	1-245-261-61	METAL OXIDE	0.12	5%	2W	F
⚠R914	1-245-261-61	METAL OXIDE	0.12	5%	2W	F
⚠R915	1-247-843-11	CARBON	3.3K	5%	1/4W	
R916	1-247-843-11	CARBON	3.3K	5%	1/4W	
R917	1-247-843-11	CARBON	3.3K	5%	1/4W	
⚠R918	1-215-889-61	METAL OXIDE	330	5%	2W	F
R919	1-249-421-11	CARBON	2.2K	5%	1/4W	
⚠R920	1-215-880-31	METAL OXIDE	10	5%	2W	F
⚠R921	1-249-425-11	CARBON	4.7K	5%	1/4W	
⚠R922	1-215-903-61	METAL OXIDE	68K	5%	2W	F
⚠R923	1-249-393-11	CARBON	10	5%	1/4W	
⚠R924	1-249-417-11	CARBON	1K	5%	1/4W	
R925	1-249-422-11	CARBON	2.7K	5%	1/4W	
⚠R926	1-215-373-31	METAL	10	1%	1/4W	F
R927	1-249-419-11	CARBON	1.5K	5%	1/4W	
R928	1-249-421-11	CARBON	2.2K	5%	1/4W	
R929	1-249-414-11	CARBON	560	5%	1/4W	
R930	1-249-408-11	CARBON	180	5%	1/4W	
⚠R931	1-215-425-00	METAL	1.5K	1%	1/4W	F
⚠R932	1-215-447-00	METAL	12K	1%	1/4W	F
R933	1-249-415-11	CARBON	680	5%	1/4W	
R934	1-249-417-11	CARBON	1K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R935	1-215-429-00	METAL	2.2K	1%	1/4W	
R936	1-249-429-11	CARBON	10K	5%	1/4W	
R937	1-249-429-11	CARBON	10K	5%	1/4W	
R939	1-249-433-11	CARBON	22K	5%	1/4W	
R940	1-247-883-00	CARBON	150K	5%	1/4W	
R941	1-249-435-11	CARBON	33K	5%	1/4W	
R942	1-249-433-11	CARBON	22K	5%	1/4W	
R943	1-249-433-11	CARBON	22K	5%	1/4W	
R944	1-249-433-11	CARBON	22K	5%	1/4W	
R945	1-215-405-00	METAL	220	1%	1/4W	
⚠R946	1-215-421-00	METAL	1K	1%	1/4W	F
⚠R947	1-216-436-00	METAL OXIDE	3.9K	5%	1W	F
R948	1-249-429-11	CARBON	10K	5%	1/4W	
R949	1-249-417-11	CARBON	1K	5%	1/4W	
R950	1-249-427-11	CARBON	6.8K	5%	1/4W	
R951	1-249-433-11	CARBON	22K	5%	1/4W	
R952	1-215-445-00	METAL	10K	1%	1/4W	
R953	1-249-439-11	CARBON	68K	5%	1/4W	
R954	1-249-437-11	CARBON	47K	5%	1/4W	
R955	1-249-415-11	CARBON	680	5%	1/4W	
R956	1-249-429-11	CARBON	10K	5%	1/4W	
R957	1-249-435-11	CARBON	33K	5%	1/4W	
⚠R958	1-247-883-00	CARBON	150K	5%	1/4W	
R959	1-249-393-11	CARBON	10	5%	1/4W	
		< TRANSFORMER >				
⚠T901	1-437-808-11	TRANSFORMER, POWER				
T902	1-439-868-11	TRANSFORMER, DC CONVERTER				
		< THERMISTOR >				
⚠TH901	1-803-916-11	THERMISTOR, NTC				
**********						
	A-4728-690-A	RF BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C001	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C002	1-124-779-00	ELECT CHIP	10uF	20%	16V	
C003	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C004	1-124-779-00	ELECT CHIP	10uF	20%	16V	
C005	1-128-993-21	ELECT CHIP	22uF	20%	10V	
C006	1-128-993-21	ELECT CHIP	22uF	20%	10V	
C008	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C009	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C010	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	
C011	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	
C012	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C013	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C014	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C015	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C016	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C017	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C018	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V	
C019	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V	
C020	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C021	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C022	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

RF **RM**

Ref. No.	Part No.	Description			Remark
C023	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C024	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C025	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C026	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C027	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C028	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C029	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C030	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C031	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C032	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C033	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C034	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C035	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C036	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C037	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C038	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C039	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C040	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C041	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C042	1-164-218-11	CERAMIC CHIP	180PF	0.25PF	50V
C049	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN001	1-815-031-11	CONNECTOR, FFC/FPC (ZIF) 24P			
CN002	1-784-836-21	CONNECTOR, FFC (LIF(NON-ZIF)) 29P			
CN003	1-784-861-21	CONNECTOR, FFC (LIF(NON-ZIF)) 9P			
		< DIODE >			
D001	8-719-988-61	DIODE 1SS355TE-17			
D002	8-719-988-61	DIODE 1SS355TE-17			
		< IC >			
IC001	6-703-551-01	IC CXD1881AR			
		< COIL >			
L001	1-412-031-11	INDUCTOR	47uH		
L002	1-412-031-11	INDUCTOR	47uH		
		< TRANSISTOR >			
Q001	8-729-903-46	TRANSISTOR 2SB1132-T100-QR			
Q002	8-729-903-46	TRANSISTOR 2SB1132-T100-QR			
		< RESISTOR >			
R001	1-218-668-11	METAL CHIP	100	0.5%	1/10W
R003	1-216-803-11	METAL CHIP	33	5%	1/10W
R004	1-216-803-11	METAL CHIP	33	5%	1/10W
R005	1-216-841-11	METAL CHIP	47K	5%	1/10W
R006	1-216-817-11	METAL CHIP	470	5%	1/10W
R007	1-216-803-11	METAL CHIP	33	5%	1/10W
R008	1-216-803-11	METAL CHIP	33	5%	1/10W
R009	1-216-841-11	METAL CHIP	47K	5%	1/10W
R010	1-216-817-11	METAL CHIP	470	5%	1/10W
R011	1-216-864-11	METAL CHIP	0	5%	1/10W
R012	1-216-864-11	METAL CHIP	0	5%	1/10W
R013	1-216-864-11	METAL CHIP	0	5%	1/10W
R014	1-216-864-11	METAL CHIP	0	5%	1/10W
R015	1-216-864-11	METAL CHIP	0	5%	1/10W

Ref. No.	Part No.	Description			Remark
R016	1-216-864-11	METAL CHIP	0	5%	1/10W
R017	1-216-864-11	METAL CHIP	0	5%	1/10W
R018	1-216-864-11	METAL CHIP	0	5%	1/10W
R019	1-216-864-11	METAL CHIP	0	5%	1/10W
R020	1-216-864-11	METAL CHIP	0	5%	1/10W
R021	1-216-864-11	METAL CHIP	0	5%	1/10W
R022	1-216-813-11	METAL CHIP	220	5%	1/10W
R023	1-216-820-11	METAL CHIP	820	5%	1/10W
R024	1-216-864-11	METAL CHIP	0	5%	1/10W
R025	1-216-809-11	METAL CHIP	100	5%	1/10W
R026	1-218-718-11	METAL CHIP	12K	0.5%	1/10W
R027	1-216-864-11	METAL CHIP	0	5%	1/10W
R028	1-216-864-11	METAL CHIP	0	5%	1/10W
R029	1-216-864-11	METAL CHIP	0	5%	1/10W
R032	1-216-809-11	METAL CHIP	100	5%	1/10W
R033	1-216-864-11	METAL CHIP	0	5%	1/10W
R034	1-219-570-11	METAL CHIP	10M	5%	1/10W
R035	1-216-864-11	METAL CHIP	0	5%	1/10W
R041	1-216-821-11	METAL CHIP	1K	5%	1/10W
**********					
	A-4733-883-A	RM BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C891	1-126-513-11	ELECT	47uF	20%	6.3V
C892	1-164-360-11	CERAMIC CHIP	0.1uF		16V
		< CONNECTOR >			
CNP802	1-750-186-11	CONNECTOR, BOARD TO BOARD 6P			
		< DIODE >			
D891	8-719-071-44	LED SELS5223C-TP15 (POWER STANDBY)			
		< IC >			
IC891	8-759-826-34	IC NJL74H400A (IR)			
		< TRANSISTOR >			
Q891	8-729-901-00	TRANSISTOR DTC124EK			
		< RESISTOR >			
R814	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R815	1-216-833-11	METAL CHIP	10K	5%	1/10W
R816	1-216-837-11	METAL CHIP	22K	5%	1/10W
R833	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R834	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R835	1-216-833-11	METAL CHIP	10K	5%	1/10W
R891	1-216-864-11	METAL CHIP	0	5%	1/10W
R892	1-216-813-11	METAL CHIP	220	5%	1/10W
R893	1-216-809-11	METAL CHIP	100	5%	1/10W
		< SWITCH >			
S814	1-762-875-21	SWITCH, KEYBOARD (FUNCTION +)			
S815	1-762-875-21	SWITCH, KEYBOARD (FUNCTION –)			
S816	1-762-875-21	SWITCH, KEYBOARD (SOUND FIELD MODE)			
S817	1-762-875-21	SWITCH, KEYBOARD (SOUND FIELD 2CH)			
S833	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)			

Ref. No.	Part No.	Description			Remark
S834	1-762-875-21	SWITCH, KEYBOARD (TUNER/PRESET +)			
S835	1-762-875-21	SWITCH, KEYBOARD (TUNER/PRESET –)			
S836	1-762-875-21	SWITCH, KEYBOARD (SOUND FIELD A.F.D.)			
**********					
	A-6060-642-A	SE-130 BOARD, COMPLETE			
		**********			
		< CONNECTOR >			
CN101	1-750-243-11	SOCKET, CONNECTOR 6P			
CN102	1-573-383-11	PIN, CONNECTOR (PC BOARD) 2P			
		< PHOTO SENSOR >			
PH101	8-749-017-45	PHOTO SENSOR RPR-220C1N			
PH102	6-600-072-01	PHOTO SENSOR RPI-392			
**********					
	A-4733-889-A	VIDEO I/O BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C216	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C217	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C218	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C219	1-126-947-11	ELECT	47uF	20%	16V
C220	1-126-964-11	ELECT	10uF	20%	50V
C221	1-126-947-11	ELECT	47uF	20%	16V
C222	1-126-964-11	ELECT	10uF	20%	50V
C223	1-126-964-11	ELECT	10uF	20%	50V
C224	1-126-964-11	ELECT	10uF	20%	50V
C225	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C226	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C227	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C228	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C229	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C230	1-126-947-11	ELECT	47uF	20%	16V
C231	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C232	1-128-858-11	ELECT	22uF	20%	50V
C233	1-126-962-11	ELECT	3.3uF	20%	50V
C234	1-126-947-11	ELECT	47uF	20%	16V
C235	1-126-947-11	ELECT	47uF	20%	16V
C236	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C237	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C239	1-126-916-11	ELECT	1000uF	20%	6.3V
C240	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C241	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C242	1-126-947-11	ELECT	47uF	20%	16V
C243	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C244	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C245	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C246	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C247	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C248	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C249	1-126-947-11	ELECT	47uF	20%	16V
C250	1-126-947-11	ELECT	47uF	20%	16V
C251	1-126-947-11	ELECT	47uF	20%	16V
C252	1-126-947-11	ELECT	47uF	20%	16V
C253	1-126-947-11	ELECT	47uF	20%	16V
C254	1-126-947-11	ELECT	47uF	20%	16V

Ref. No.	Part No.	Description			Remark
C255	1-126-947-11	ELECT	47uF	20%	16V
C256	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C257	1-126-947-11	ELECT	47uF	20%	16V
C258	1-126-947-11	ELECT	47uF	20%	16V
C259	1-126-947-11	ELECT	47uF	20%	16V
C260	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C261	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C262	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C263	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C264	1-126-947-11	ELECT	47uF	20%	16V
C265	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C266	1-126-947-11	ELECT	47uF	20%	16V
C267	1-126-947-11	ELECT	47uF	20%	16V
C268	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C269	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C270	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C271	1-126-947-11	ELECT	47uF	20%	16V
C272	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C273	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C274	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C275	1-126-947-11	ELECT	47uF	20%	16V
C276	1-164-218-11	CERAMIC CHIP	180PF	0.25PF	50V
C277	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C278	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C279	1-126-959-11	ELECT	0.47uF	20%	50V
C280	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C281	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C282	1-126-947-11	ELECT	47uF	20%	16V
C283	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C284	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C285	1-126-947-11	ELECT	47uF	20%	16V
C286	1-126-947-11	ELECT	47uF	20%	16V
C287	1-126-947-11	ELECT	47uF	20%	16V
C288	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C289	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C290	1-126-947-11	ELECT	47uF	20%	16V
C291	1-126-947-11	ELECT	47uF	20%	16V
C292	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C293	1-126-947-11	ELECT	47uF	20%	16V
C294	1-126-947-11	ELECT	47uF	20%	16V
C295	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C296	1-126-947-11	ELECT	47uF	20%	16V
C297	1-126-947-11	ELECT	47uF	20%	16V
C298	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C299	1-126-961-11	ELECT	2.2uF	20%	50V
C300	1-164-392-11	CERAMIC CHIP	390PF	5%	50V
C301	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C302	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C303	1-126-947-11	ELECT	47uF	20%	16V
C304	1-128-581-11	ELECT	4.7uF	20%	63V
C305	1-126-947-11	ELECT	47uF	20%	16V
C306	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C307	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C308	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C309	1-128-582-11	ELECT	10uF	20%	63V
C310	1-126-924-11	ELECT	330uF	20%	10V

VIDEO I/O

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CN201	1-779-558-21	CONNECTOR, FFC (LIF(NON-ZIF)) 21P	
* CN202	1-568-943-11	PIN, CONNECTOR 5P	
		< DIODE >	
D201	8-719-988-61	DIODE 1SS355TE-17	
D202	8-719-988-61	DIODE 1SS355TE-17	
D204	8-719-049-09	DIODE 1SS367-T3SONY	
		< FERRITE BEAD >	
FB201	1-414-813-11	FERRITE, EMI (SMD)	
FB202	1-414-813-11	FERRITE, EMI (SMD)	
FB203	1-414-813-11	FERRITE, EMI (SMD)	
FB204	1-414-813-11	FERRITE, EMI (SMD)	
		< IC >	
IC201	8-759-822-05	IC LA7213	
IC202	6-704-284-01	IC NJM2581M-TE2	
IC203	8-759-293-22	IC NJM2268M-TE1	
IC204	6-704-199-01	IC NJM2595M-TE2	
IC205	6-704-199-01	IC NJM2595M-TE2	
IC206	6-704-199-01	IC NJM2595M-TE2	
IC207	8-759-671-94	IC MC74HC4053AFEL	
IC208	8-759-678-99	IC TC90A45F	
IC209	8-759-245-79	IC TA79005S	
IC210	8-759-094-53	IC TA7805S(LBSONY)	
IC211	8-759-826-19	IC MM1093NF	
		< JACK >	
J201	1-779-801-11	CONNECTOR (ROUND TYPE) (TV/SAT S VIDEO IN/MONITOR S VIDEO OUT)	
J202	1-779-801-11	CONNECTOR (ROUND TYPE) (VIDEO1 S VIDEO IN/VIDEO2 S VIDEO IN)	
J203	1-816-548-11	JACK, PIN 3P (COMPONENT VIDEO OUT)	
J204	1-794-435-11	JACK, PIN 2P (TV/SAT VIDEO IN/ MONITOR VIDEO OUT)	
J205	1-794-435-11	JACK, PIN 2P (VIDEO1 VIDEO IN/ VIDEO2 VIDEO IN)	
		< COIL >	
L201	1-412-011-31	INDUCTOR 27uH	
L202	1-412-011-31	INDUCTOR 27uH	
L203	1-412-010-41	INDUCTOR 22uH	
L204	1-412-060-11	INDUCTOR 22uH	
L205	1-412-064-11	INDUCTOR 100uH	
L206	1-412-060-11	INDUCTOR 22uH	
L207	1-412-060-11	INDUCTOR 22uH	
L208	1-412-060-11	INDUCTOR 22uH	
L209	1-412-064-11	INDUCTOR 100uH	
L210	1-412-060-11	INDUCTOR 22uH	
L211	1-412-060-11	INDUCTOR 22uH	
L212	1-414-194-11	INDUCTOR, CHIP	
		< TRANSISTOR >	
Q201	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q202	8-729-230-45	TRANSISTOR 2SC2458-YGR	
Q203	8-729-230-45	TRANSISTOR 2SC2458-YGR	
Q204	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q205	8-729-230-27	TRANSISTOR 2SA1213Y-TE12L	
Q206	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q207	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q208	8-729-900-53	TRANSISTOR DTC114EK	
Q209	8-729-900-53	TRANSISTOR DTC114EK	
Q210	8-729-900-53	TRANSISTOR DTC114EK	
Q211	1-801-806-11	TRANSISTOR DTC144EKA	
		< RESISTOR >	
R201	1-218-285-11	METAL CHIP 75 5% 1/10W	
R202	1-218-285-11	METAL CHIP 75 5% 1/10W	
R203	1-218-285-11	METAL CHIP 75 5% 1/10W	
R204	1-218-285-11	METAL CHIP 75 5% 1/10W	
R205	1-218-285-11	METAL CHIP 75 5% 1/10W	
R206	1-218-285-11	METAL CHIP 75 5% 1/10W	
R207	1-218-285-11	METAL CHIP 75 5% 1/10W	
R208	1-218-285-11	METAL CHIP 75 5% 1/10W	
R209	1-218-285-11	METAL CHIP 75 5% 1/10W	
R210	1-216-808-11	METAL CHIP 82 5% 1/10W	
R211	1-216-808-11	METAL CHIP 82 5% 1/10W	
R212	1-218-285-11	METAL CHIP 75 5% 1/10W	
R213	1-218-285-11	METAL CHIP 75 5% 1/10W	
R214	1-218-285-11	METAL CHIP 75 5% 1/10W	
R215	1-218-285-11	METAL CHIP 75 5% 1/10W	
R216	1-216-864-11	METAL CHIP 0 5% 1/10W	
R217	1-216-864-11	METAL CHIP 0 5% 1/10W	
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R220	1-216-864-11	METAL CHIP 0 5% 1/10W	
R221	1-216-864-11	METAL CHIP 0 5% 1/10W	
R222	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R223	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R225	1-216-815-11	METAL CHIP 330 5% 1/10W	
R226	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R227	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R228	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R229	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R242	1-216-824-11	METAL CHIP 1.8K 5% 1/10W	
R243	1-218-457-11	METAL CHIP 910 5% 1/10W	
R244	1-216-818-11	METAL CHIP 560 5% 1/10W	
R245	1-216-818-11	METAL CHIP 560 5% 1/10W	
R246	1-216-820-11	METAL CHIP 820 5% 1/10W	
R247	1-216-820-11	METAL CHIP 820 5% 1/10W	
R248	1-218-285-11	METAL CHIP 75 5% 1/10W	
R249	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R250	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R251	1-218-285-11	METAL CHIP 75 5% 1/10W	
R252	1-216-817-11	METAL CHIP 470 5% 1/10W	
R253	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R254	1-216-824-11	METAL CHIP 1.8K 5% 1/10W	
R255	1-216-820-11	METAL CHIP 820 5% 1/10W	
R256	1-216-834-11	METAL CHIP 12K 5% 1/10W	
R257	1-216-834-11	METAL CHIP 12K 5% 1/10W	
R258	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R259	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R260	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R261	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R262	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	

Ref. No.	Part No.	Description			Remark
R263	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R264	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R265	1-216-809-11	METAL CHIP	100	5%	1/10W
R266	1-216-809-11	METAL CHIP	100	5%	1/10W
R267	1-216-809-11	METAL CHIP	100	5%	1/10W
R268	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R269	1-216-833-11	METAL CHIP	10K	5%	1/10W
R270	1-216-833-11	METAL CHIP	10K	5%	1/10W
R271	1-216-835-11	METAL CHIP	15K	5%	1/10W
R272	1-216-857-11	METAL CHIP	1M	5%	1/10W
⚠R273	1-215-857-11	METAL OXIDE	10	5%	1W F
R274	1-216-816-11	METAL CHIP	390	5%	1/10W
R275	1-216-816-11	METAL CHIP	390	5%	1/10W
R276	1-216-833-11	METAL CHIP	10K	5%	1/10W
R277	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R278	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R281	1-216-864-11	METAL CHIP	0	5%	1/10W
		< RELAY >			
RY201	1-515-622-11	RELAY			
		< VIBRATOR >			
X3100	1-781-342-21	VIBRATOR, CRYSTAL (3.58MHz)			
**********					
		MISCELLANEOUS			
		**********			
62	1-775-204-11	WIRE (FLAT TYPE) (23 CORE)			
105	1-775-189-11	WIRE (FLAT TYPE) (21 CORE)			
106	1-469-969-11	CLAMP, FERRITE			
107	1-400-061-11	CORE, FERRITE (CLAMP FILTER)			
108	1-500-051-11	BEAD, FERRITE (WITH CASE)			
109	1-500-764-11	CORE, FERRITE			
⚠153	1-783-820-21	CORD, POWER			
156	1-775-123-11	WIRE (FLAT TYPE) (13 CORE)			
157	1-775-259-11	WIRE (FLAT TYPE) (29 CORE)			
160	1-792-110-11	WIRE (FLAT TYPE) (21 CORE)			
161	1-769-972-11	WIRE (FLAT TYPE) (13 CORE)			
257	1-827-712-11	WIRE (FLAT TYPE) (29 CORE)			
⚠266	1-477-263-11	PICK-UP UNIT (TDP022W)			
269	1-824-106-12	CABLE, FLEXIBLE FLAT (24 CORE)			
⚠F901	1-533-420-11	FUSE, GLASS CYLINDRICAL (DIA.5) (5A/125V)			
FAN901	1-698-997-31	FAN, D.C.			
M901	1-541-632-12	MOTOR, DC (ROTARY)			
RE901	1-418-746-11	ENCODER, ROTARY			
TU901	1-693-632-11	TUNER UNIT (ANTENNA)			
**********					
		ACCESSORIES			
		**********			
	1-477-982-11	REMOTE COMMANDER (RM-CL700M)			
	1-754-149-11	ANTENNA, LOOP (AM)			
	1-793-184-21	CONNECTOR (F TYPE ADAPTOR) (FM ANTENNA)			
	1-823-364-21	CORD, CONNECTION (S VIDEO)			
	3-071-119-91	COVER, BATTERY (for RM-CL700M)			
	4-247-936-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

MEMO

AVD-C700ES

SONY

US Model
Canadian Model

SERVICE MANUAL

Ver 1.1 2004. 09

SUPPLEMENT-1

File this supplement with the service manual.

Subject : Addition of Block Diagrams.

9-961-309-81

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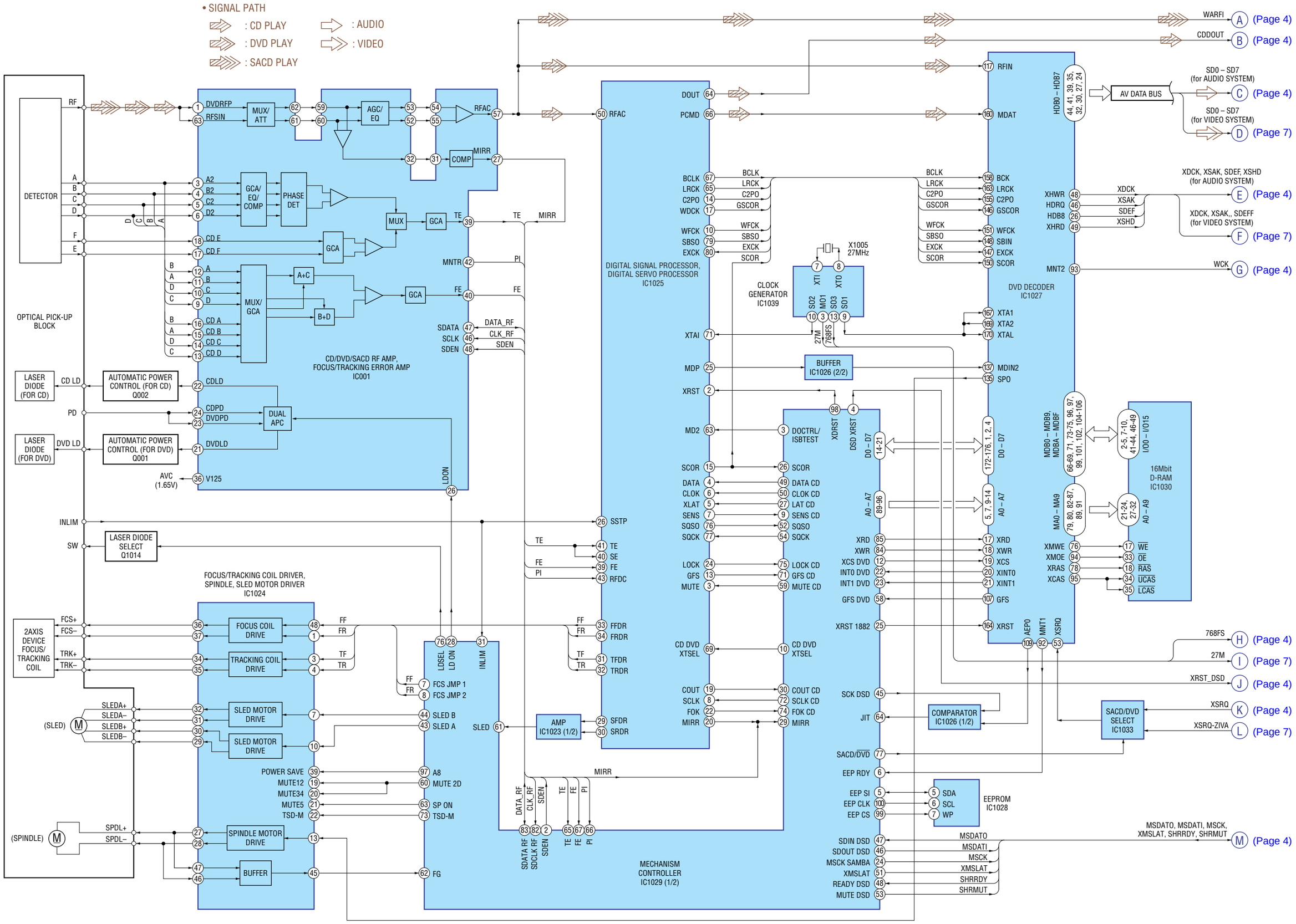
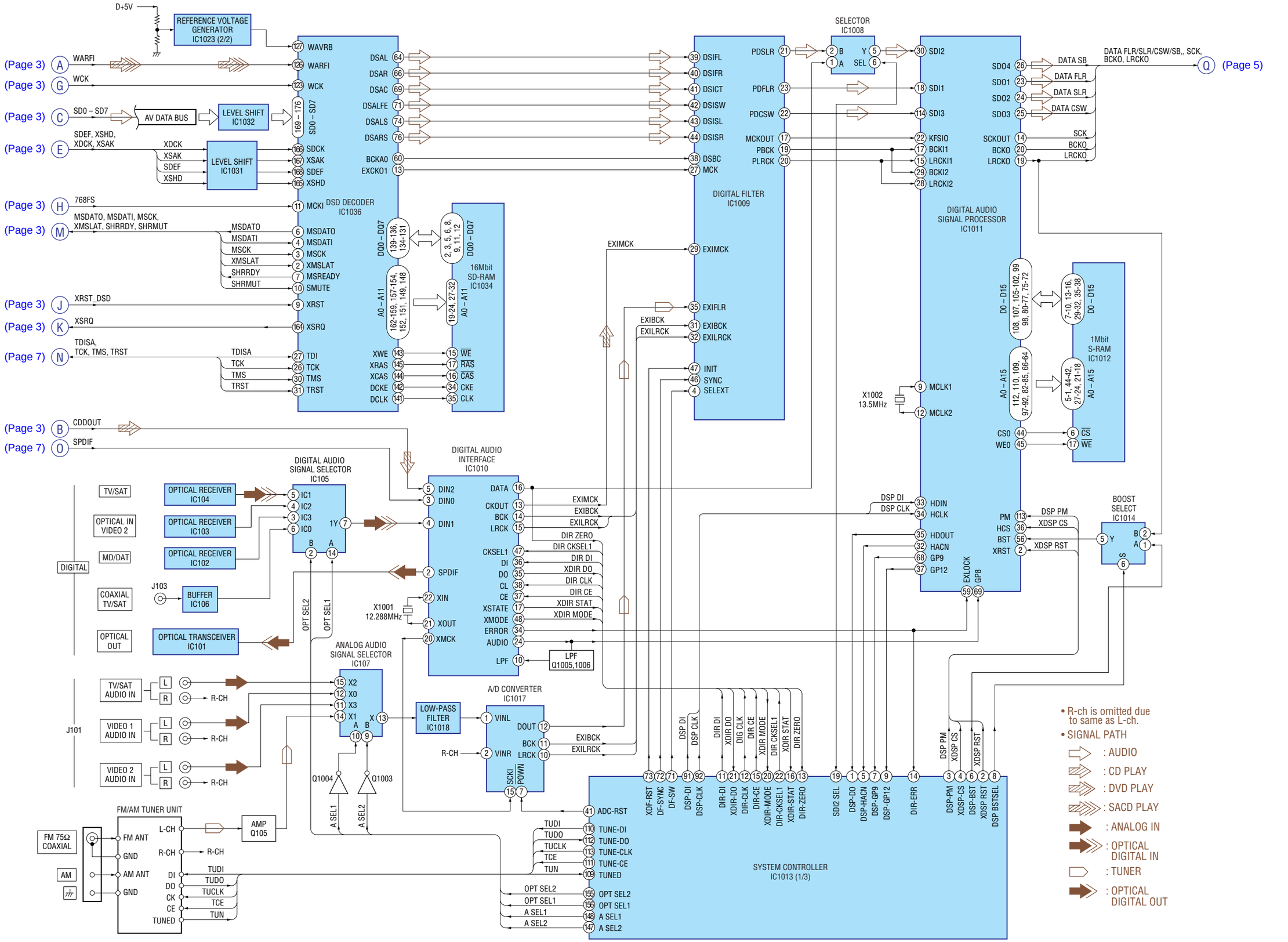
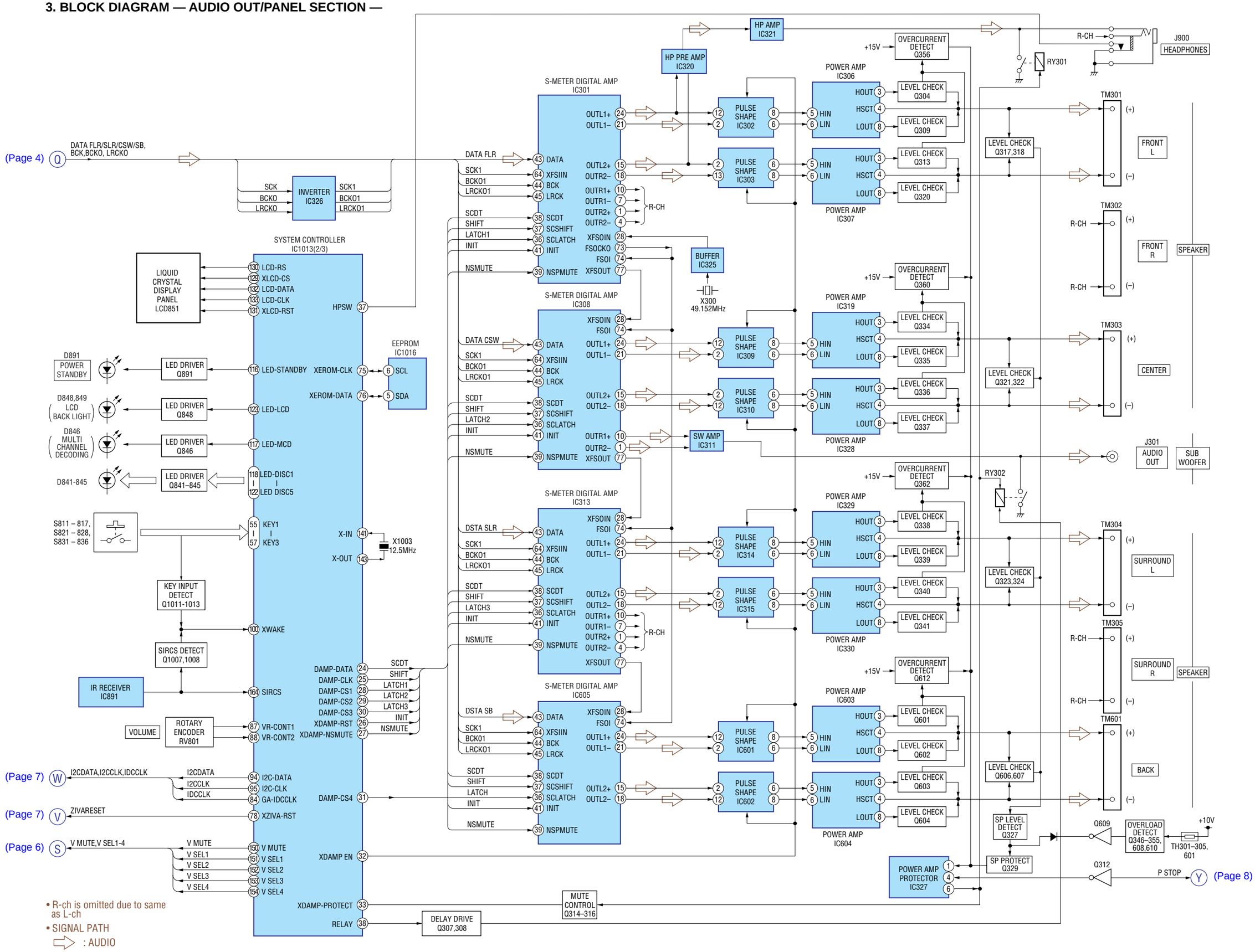


2. BLOCK DIAGRAM — AUDIO (DSP) SECTION —



3. BLOCK DIAGRAM — AUDIO OUT/PANEL SECTION —



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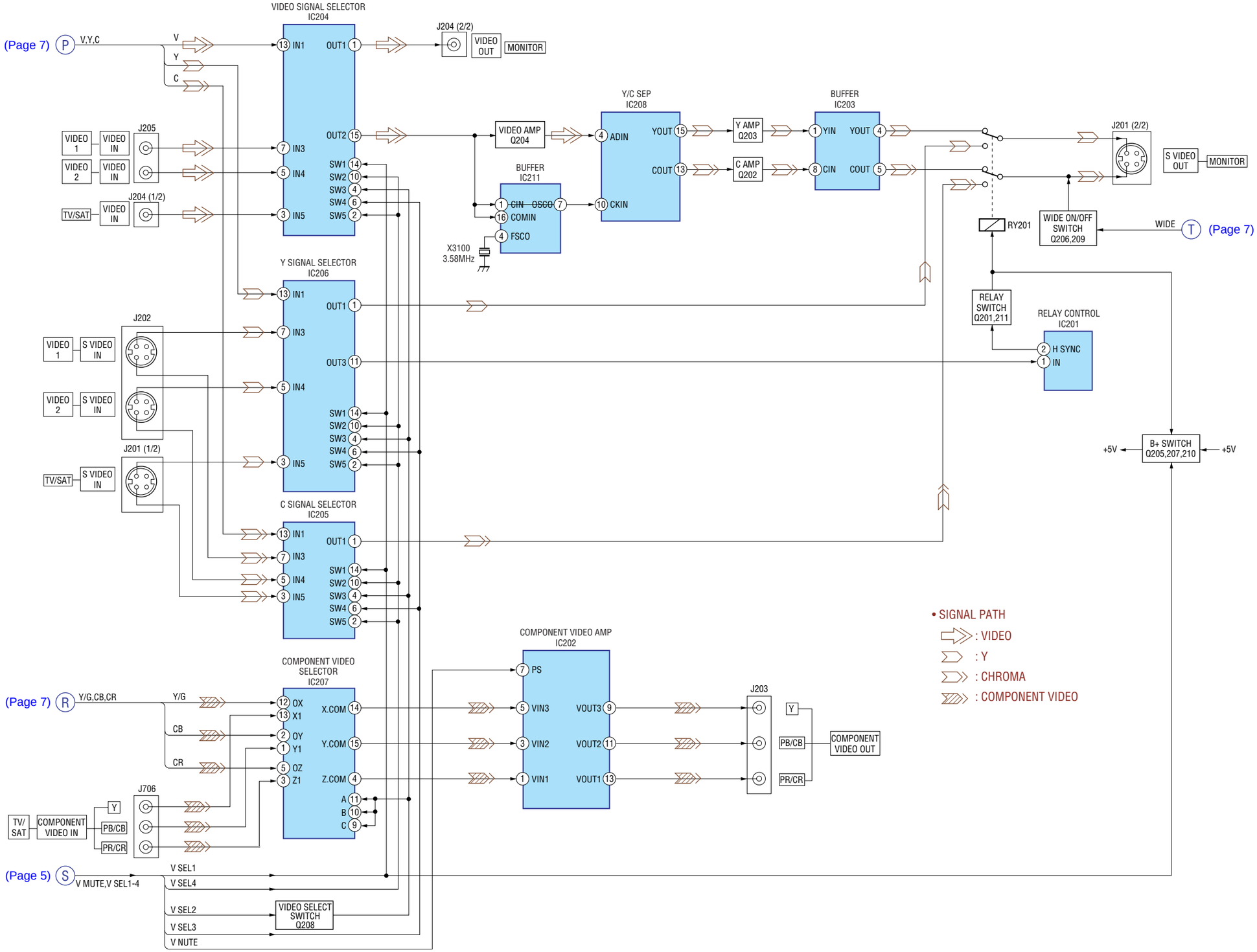

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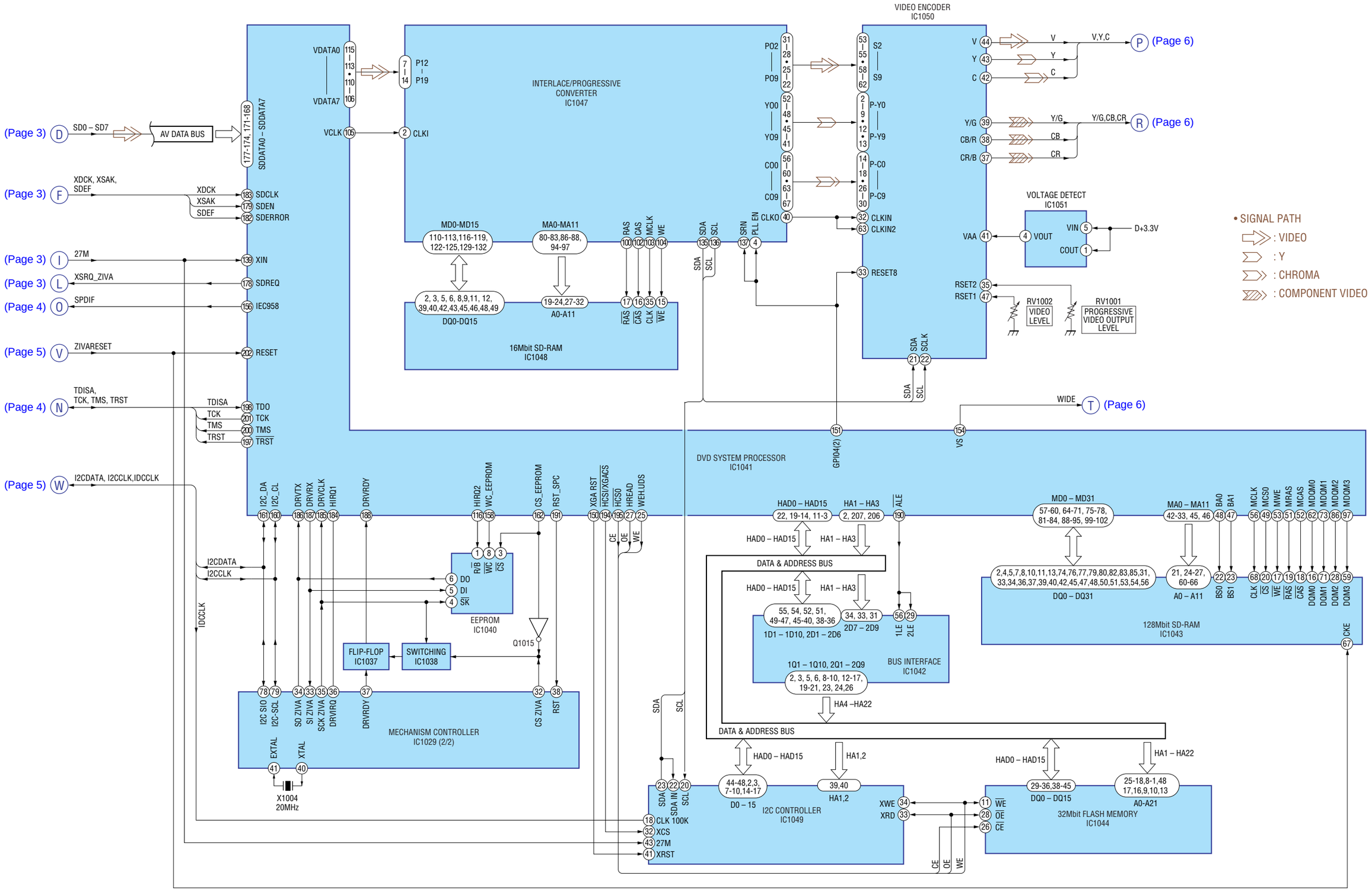
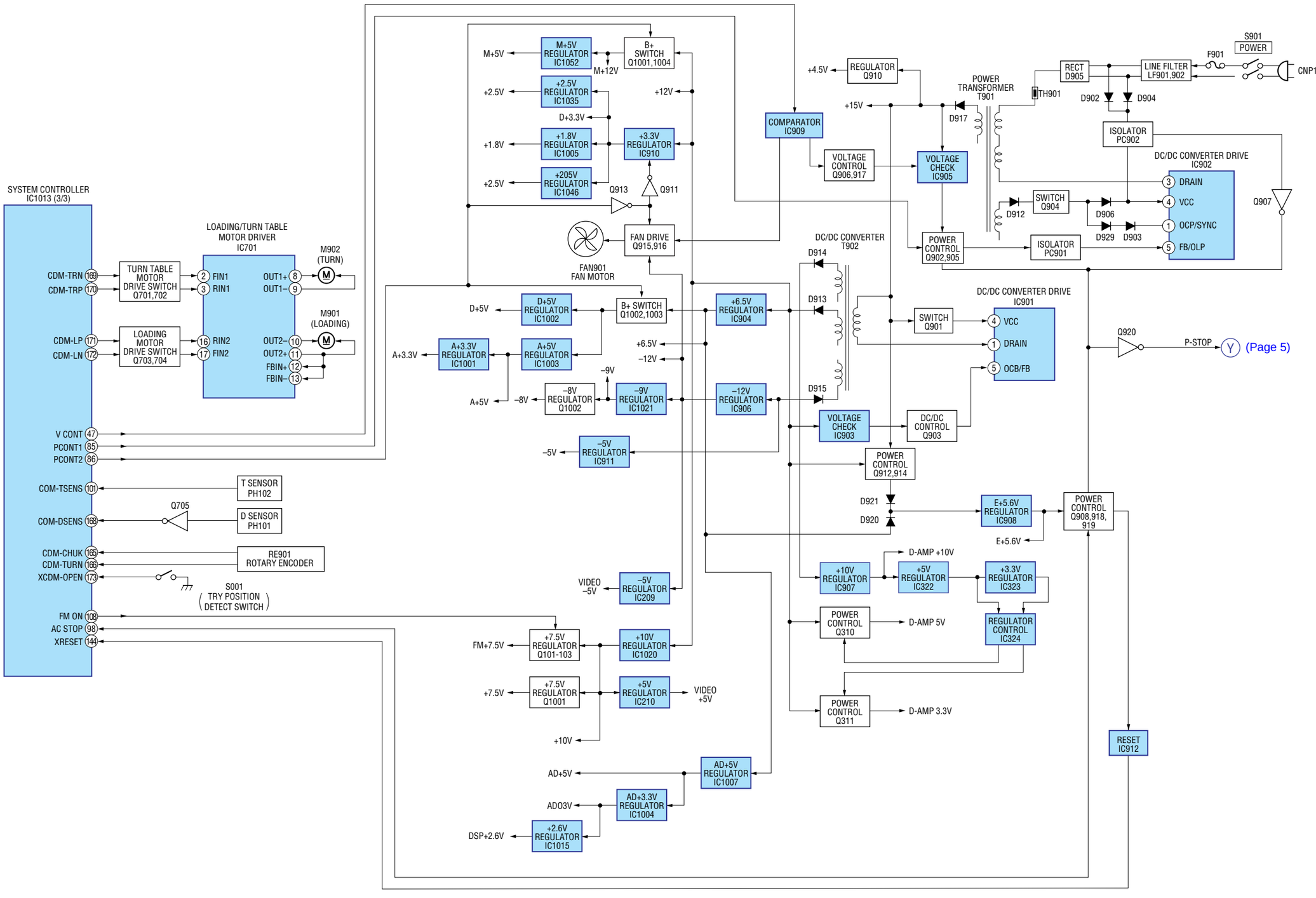


6. BLOCK DIAGRAM — POWER SUPPLY SECTION —



MEMO

REVISION HISTORY

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

Ver.	Date	Description of Revision
1.0	2003. 10	New
1.1	2004. 09	Addition of note of replacing the MB board. Addition of decision to pass or fail of the optical pick-up block. Addition of block diagrams. (SPM-04038/04049)