

SCD-XA777ES

SERVICE MANUAL

Ver 1.1 2001.10

US Model
Canadian Model
AEP Model



| | |
|------------------------------------|----------------------------------|
| Model Name Using Similar Mechanism | NEW |
| CD Mechanism Type | CDM19JB-DVBU4B CDM19JN-DVBU4B |
| Base Unit Name | DVBU4B |
| Optical Pick-up Name | KHM-230AAA |

SPECIFICATIONS

When a super audio CD is played

| | |
|--------------------------------|--|
| Playing frequency range | 2 Hz to 100 kHz |
| Frequency response | 2 Hz to 50 kHz (3 dB) |
| Dynamic range | 108 dB or more |
| Total harmonic distortion rate | 0.0012 % or less |
| Wow and flutter | Value of measurable limit (± 0.001 % W. PEAK) or less |

When a CD is played

| | |
|--------------------------------|--|
| Frequency response | 2 Hz to 20 kHz |
| Dynamic range | 100 dB or more |
| Total harmonic distortion rate | 0.0017 % or less |
| Wow and flutter | Value of measurable limit (± 0.001 % W. PEAK) or less |

Output connector

| | Jack type | Output level | Load impedance |
|---------------------------|---------------------------------|---|-----------------|
| ANALOG OUT | Phono jacks | 2 Vrms (at 50 kilohms) | Over 10 kilohms |
| DIGITAL (CD) OUT OPTICAL* | Square optical output connector | 18 dBm (Light emitting wave length: 660 nm) | |
| DIGITAL (CD) OUT COAXIAL* | Coaxial output connector | 0.5 Vp-p | 75 ohms |
| PHONES | Stereo phone jack | 10 mW | 32 ohms |

*Output only the audio signals of the CD

General

| | |
|-------|--|
| Laser | Semiconductor laser (SACD: λ 650 nm) (CD: λ 780 nm) Emission duration: continuous |
|-------|--|

Laser radiant power: 5.47 μ W at 650 nm
*These output is the value measured at a distance of about 200mm from the objective lens surface on the optical pick-up.

Power requirements 120 V AC, 60 Hz (US and Canadian models)
230 V AC, 50/60 Hz (AEP model)

Power consumption 32 W

Dimensions (w/h/d) 430 \times 130 \times 380 mm (17 \times 5 1/8 \times 15 in.) incl. projecting parts

Mass (approx.) 16 kg (35 lbs 5 oz.)

Supplied accessories

- Audio connecting cord
phono jack \times 2 (Red and White) \leftrightarrow phono jack \times 2 (Red and White) (3)
phono jack \times 1 (Black) \leftrightarrow phono jack \times 1 (Black) (2)
- Remote commander RM-SX700 (1)
- R06 (size-AA) batteries (2)
- AC power cord (Mains lead) (1)

Design and specifications are subject to change without notice.

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Home Audio Company
Published by Sony Engineering Corporation

SUPER AUDIO CD PLAYER

SONY®

TABLE OF CONTENTS

| | | | |
|---|----|---|----|
| 1. SERVICING NOTES | 4 | 5-17. Printed Wiring Board – D.OUT Board – | 47 |
| 2. GENERAL | 9 | 5-18. Schematic Diagram – D.OUT Board – | 47 |
| 3. DISASSEMBLY | | 5-19. Printed Wiring Board | |
| 3-1. Disassembly flow | 10 | – MOTHER Board (Component Side) – | 48 |
| 3-2. Case (Top) | 11 | 5-20. Printed Wiring Board | |
| 3-3. Loading Panel Assy | 11 | – MOTHER Board (Conductor Side) – | 49 |
| 3-4. Front Panel Section | 12 | 5-21. Schematic Diagram – MOTHER Board (1/2) – | 50 |
| 3-5. MAIN Board, Bracket (MAIN) | 12 | 5-22. Schematic Diagram – MOTHER Board (2/2) – | 51 |
| 3-6. Mechanism Deck (CDM19JB-DVBU4B/ CDM19JN-DVBU4B), RF Board | 13 | 5-23. Printed Wiring Board – AUDIO FRONT Board – | 52 |
| 3-7. Disc Table, Belt, Loading Motor (M1) | 13 | 5-24. Schematic Diagram – AUDIO FRONT Board – | 53 |
| 3-8. Optical Pick-up (KHM-230AAA/J1NP) | 14 | 5-25. Printed Wiring Board – AUDIO SURR Board – | 54 |
| 3-9. Base Unit (DVBU4B) | 15 | 5-26. Schematic Diagram – AUDIO SURR Board – | 55 |
| 4. TEST MODE | 16 | 5-27. Printed Wiring Board – AUDIO C/SW Board – | 56 |
| 5. DIAGRAMS | | 5-28. Schematic Diagram – AUDIO C/SW Board – | 57 |
| 5-1. Block Diagram – RF/SERVO Section – | 31 | 5-29. Printed Wiring Board – PANEL Board – | 58 |
| 5-2. Block Diagram – MAIN Section (1/2) – | 32 | 5-30. Schematic Diagram – PANEL Board – | 59 |
| 5-3. Block Diagram – MAIN Section (2/2) – | 33 | 5-31. Printed Wiring Boards | |
| 5-4. Block Diagram – AUDIO Section (1/2) – | 34 | – HP/JOG/KEY/R.CNTL Boards – | 60 |
| 5-5. Block Diagram – AUDIO Section (2/2) – | 35 | 5-32. Schematic Diagram | |
| 5-6. Block Diagram | | – HP/JOG/KEY/R.CNTL Boards – | 61 |
| – DISPLAY/POWER SUPPLY Section – | 36 | 5-33. Printed Wiring Board – A-POWER Board – | 62 |
| 5-7. Note for Printed Wiring Boards and Schematic Diagrams | 37 | 5-34. Schematic Diagram – A-POWER Board – | 63 |
| 5-8. Printed Wiring Boards | | 5-35. Printed Wiring Board – D-POWER Board – | 64 |
| – LOADING MOTOR/RF/SWITCH Boards – | 38 | 5-36. Schematic Diagram – D-POWER Board – | 65 |
| 5-9. Schematic Diagram | | 5-37. Printed Wiring Boards – AC/AC SW Boards – | 66 |
| – LOADING MOTOR/RF/SWITCH Boards – | 39 | 5-38. Schematic Diagram – AC/AC SW Boards – | 67 |
| 5-10. Printed Wiring Board | | 5-39. IC Pin Function Description | 76 |
| – MAIN Board (Component Side) – | 40 | 6. EXPLODED VIEWS | |
| 5-11. Printed Wiring Board | | 6-1. Case Section | 91 |
| – MAIN Board (Conductor Side) – | 41 | 6-2. Front Panel Section | 92 |
| 5-12. Schematic Diagram – MAIN Board (1/5) – | 42 | 6-3. Bottom Section | 93 |
| 5-13. Schematic Diagram – MAIN Board (2/5) – | 43 | 6-4. Board Section-1 | 94 |
| 5-14. Schematic Diagram – MAIN Board (3/5) – | 44 | 6-5. Board Section-2 | 95 |
| 5-15. Schematic Diagram – MAIN Board (4/5) – | 45 | 6-6. Chassis Section | 96 |
| 5-16. Schematic Diagram – MAIN Board (5/5) – | 46 | 6-7. Mechanism Deck Section (CDM19JB-DVBU4B, CDM19JN-DVBU4B) | 97 |
| | | 6-8. Base Unit Section (DVBU4B) | 98 |
| | | 7. ELECTRICAL PARTS LIST | 99 |

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle 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 \triangle 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.

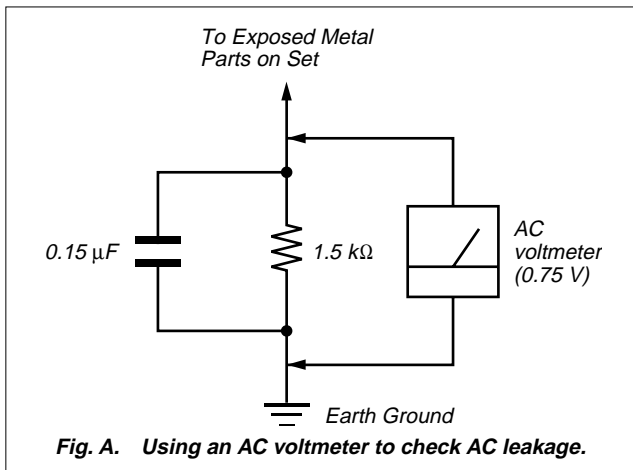
SAFETY CHECK-OUT

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 2 V AC range are suitable. (See Fig. A)



CAUTION

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

US and Canadian models

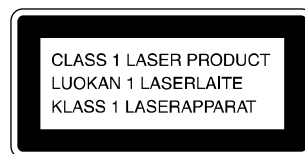
This label is located on the left exterior.



AEP model

This appliance is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.



The following caution label is located inside the unit.



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.

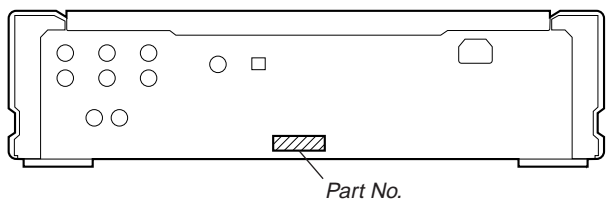
Flexible Circuit Board Repairing

- 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.

SECTION 1 SERVICING NOTES

MODEL IDENTIFICATION

– Back Panel –



| Model | Part No. |
|-----------------|--------------|
| US and Canadian | 4-235-601-1□ |
| AEP | 4-235-601-2□ |

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.

CLEANING OF OPTICAL PICK-UP LENS

In cleaning the lens of optical pick-up, use the air blower. Never use a cotton swab for cleaning the lens of optical pick-up, which otherwise causes a trouble.

RESETTING OPERATION AT POWER ON

If the power is turned on with a disc loaded in the set, a sequence of operation as shown below will be performed.

(The operation varies depending on the type of disc)

Condition: continue mode

(1) CD

1. Sled reverse move (sled in)
2. Disc detect
3. IC setting for CD
4. Servo error signal offset auto adjustment
5. Spindle kick for LD on
6. LD on
7. Focus search
8. Focus servo on
9. Spindle kick
10. Spindle servo on
11. E-F balance auto adjustment
12. Tracking & sled servo on
13. Focus bias auto adjustment
14. Focus servo gain auto adjustment
15. Tracking servo gain auto adjustment
16. Jump to lead-in area
17. Read TOC
18. Stop

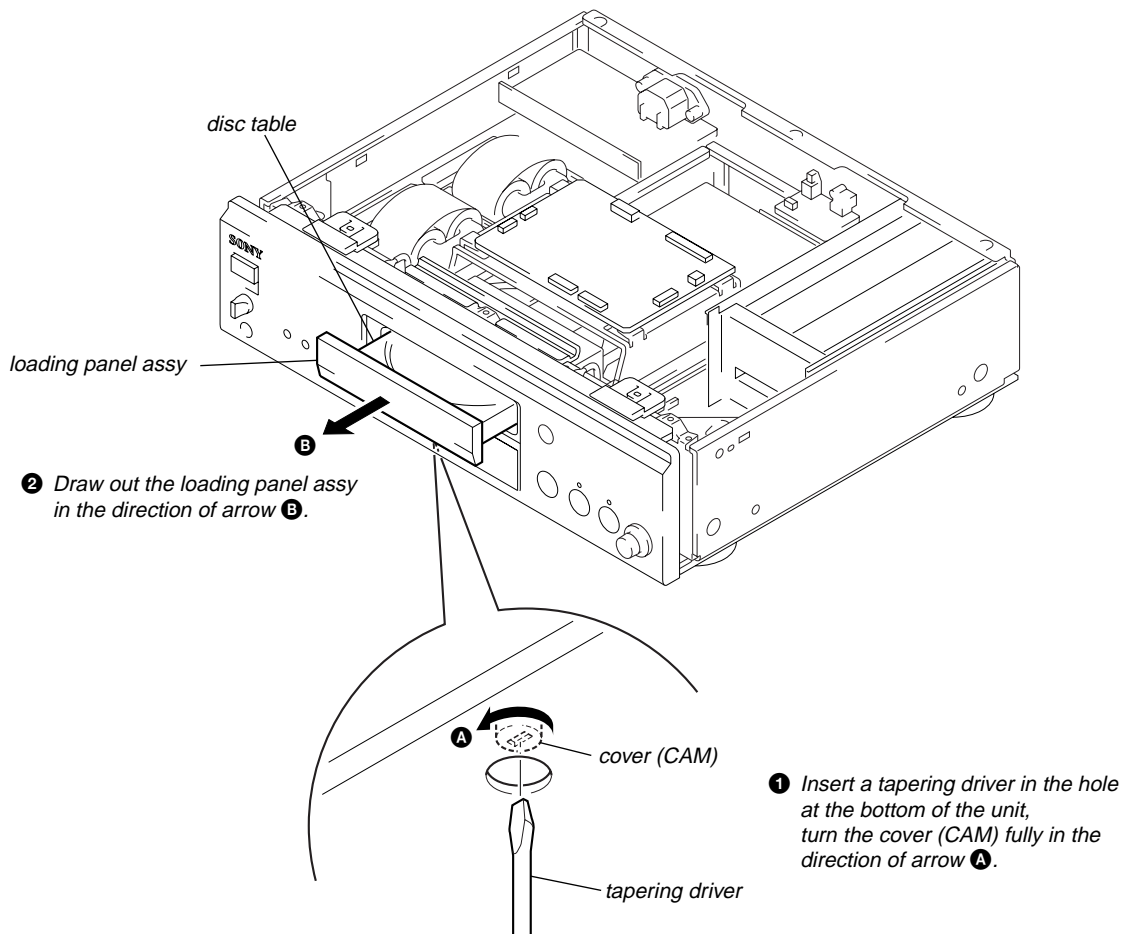
(2) SACD (single layer)

1. Sled reverse move (sled in)
2. Disc detect
3. IC setting for SACD
4. Servo error signal offset auto adjustment
5. Spindle kick for LD on
6. LD on
7. Focus search
8. Focus servo on
9. Spindle kick
10. Spindle servo on
11. E-F balance auto adjustment
12. Tracking & sled servo on
13. Focus bias auto adjustment
14. Focus servo gain auto adjustment
15. Tracking servo gain auto adjustment
16. Jump to lead-in area
17. Read TOC
18. Stop

(3) SACD (dual layer)

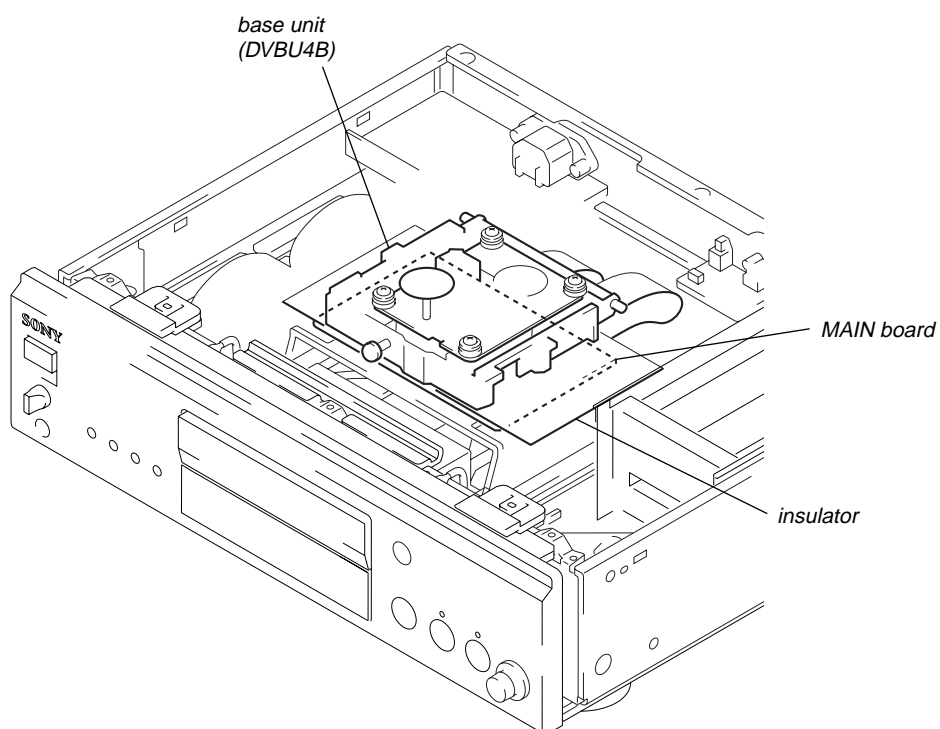
1. Sled reverse move (sled in)
2. Disc detect
3. IC setting for SACD
4. Servo error signal offset auto adjustment
5. Spindle kick for LD on
6. LD on
7. Focus search
8. Focus servo on (layer 0)
9. Spindle kick
10. Spindle servo on
11. E-F balance auto adjustment (layer 0)
12. Tracking & sled servo on (layer 0)
13. Focus bias auto adjustment (layer 0)
14. Focus servo gain auto adjustment (layer 0)
15. Tracking servo gain auto adjustment (layer 0)
16. Jump to lead-in area
17. Read TOC
18. Focus jump (layer 0→layer 1)
19. E-F balance auto adjustment (layer 1)
20. Tracking & sled servo on (layer 1)
21. Focus bias auto adjustment (layer 1)
22. Focus servo gain auto adjustment (layer 1)
23. Tracking servo gain auto adjustment (layer 1)
24. Focus Jump (layer 1→layer 0)
25. Stop

HOW TO OPEN THE DISC TABLE WHEN POWER SWITCH TURNS OFF



OPTICAL PICK-UP SERVICE POSITION

Place the insulator on the MAIN board, then install the base unit (DVBU4B) on it as shown in the figure.

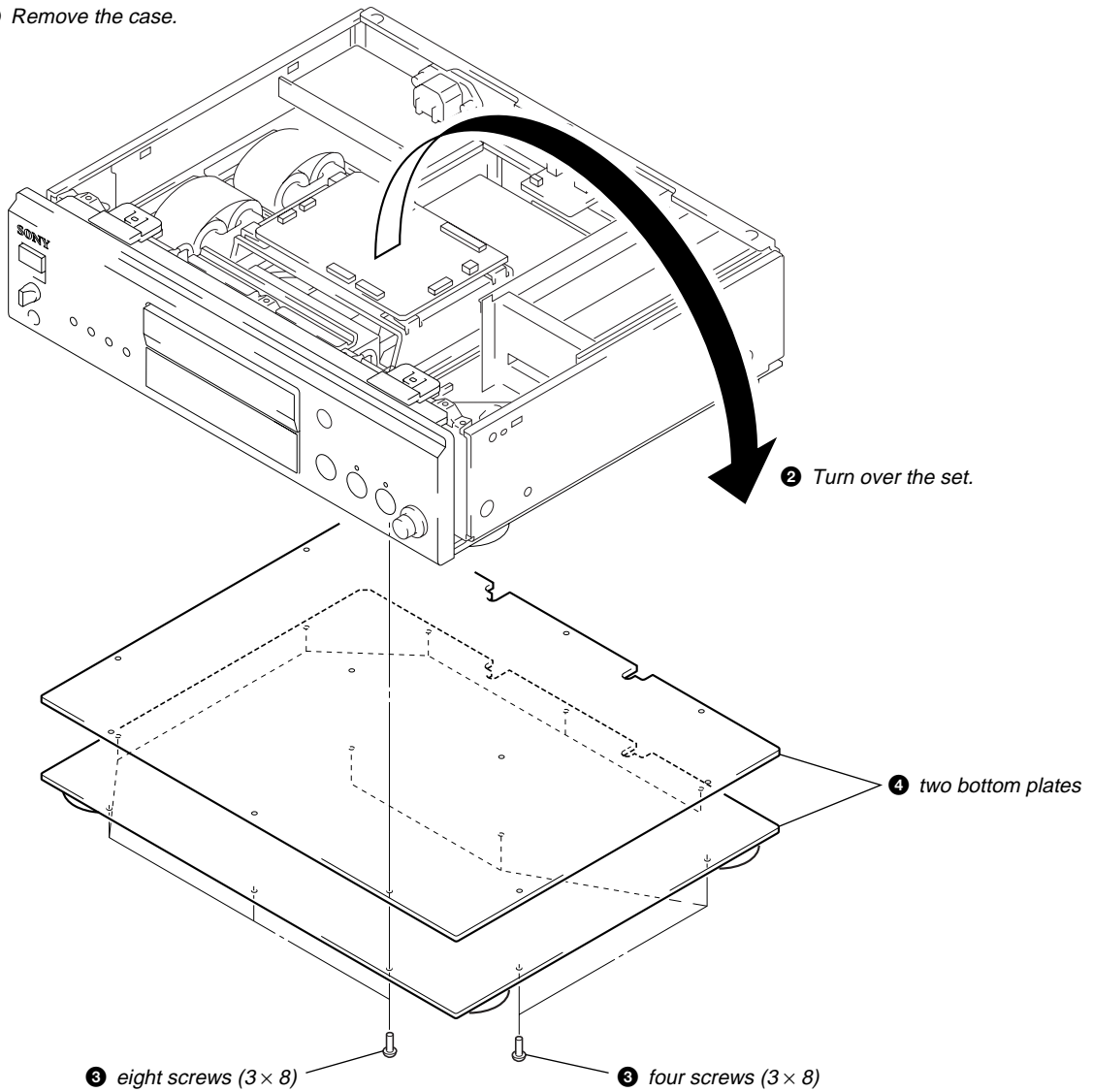


SCD-XA777ES

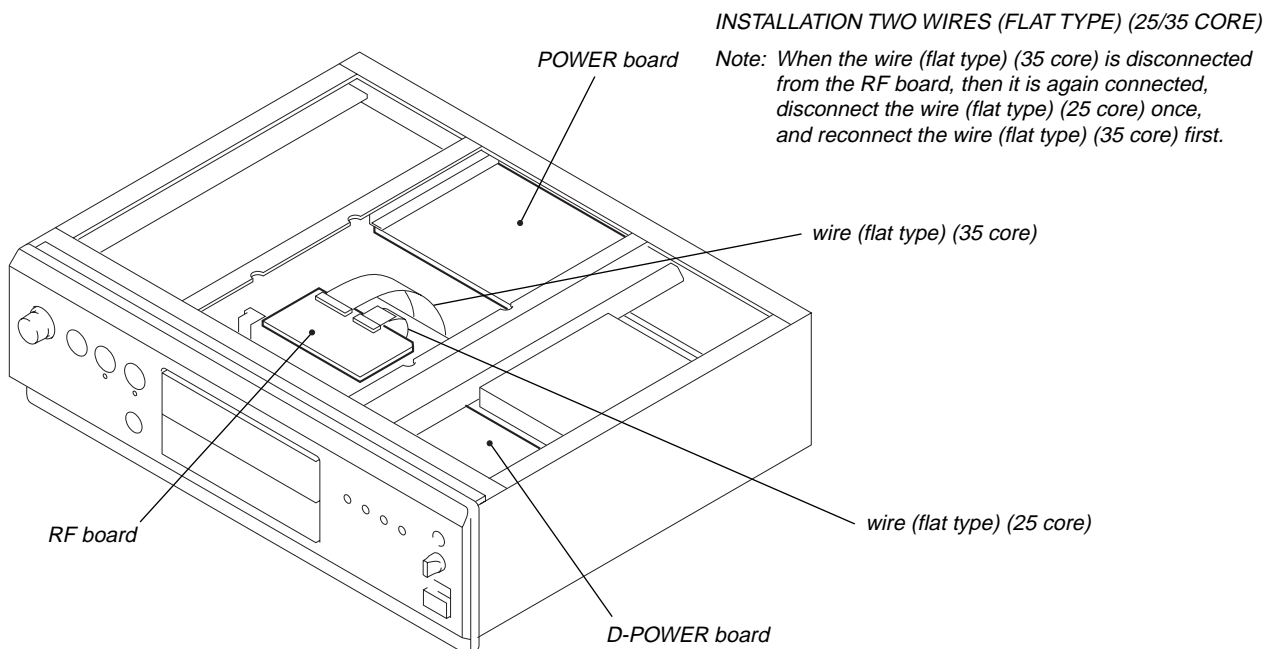
Note: Follow the disassembly procedure in the numerical order given.

D-POWER/POWER BOARDS AND RF BOARD SERVICE POSITION

❶ Remove the case.



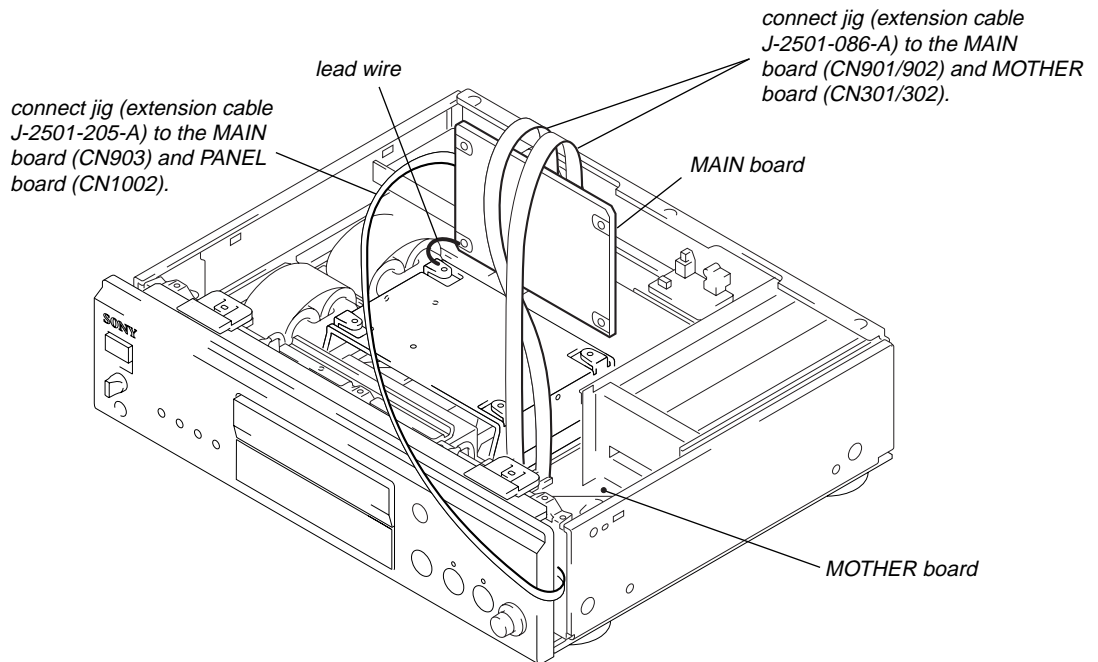
– BOTTOM VIEW –



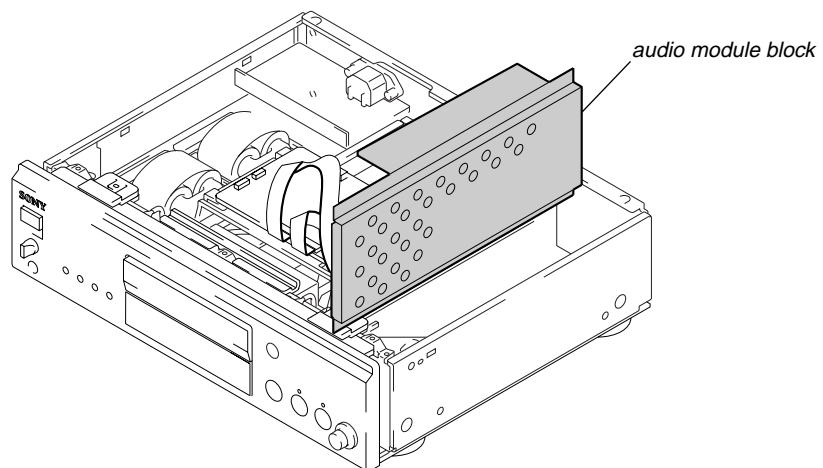
MAIN BOARD SERVICE POSITION

In checking the MAIN board, prepare jig (extension cable J-2501-205-A: 1.50 mm Pitch, 7 cores, Length 300 mm/ J-2501-086-A: 1.00 mm Pitch, 19 cores, Length 300 mm).

Note: Be sure to ground the MAIN board with a lead wire when checking it.

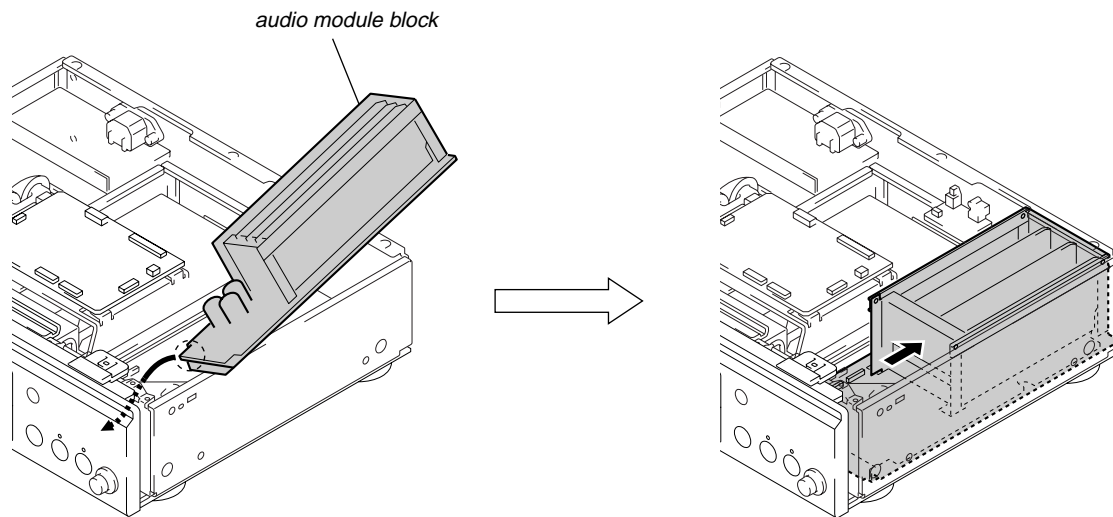


AUDIO MODULE BLOCK SERVICE POSITION

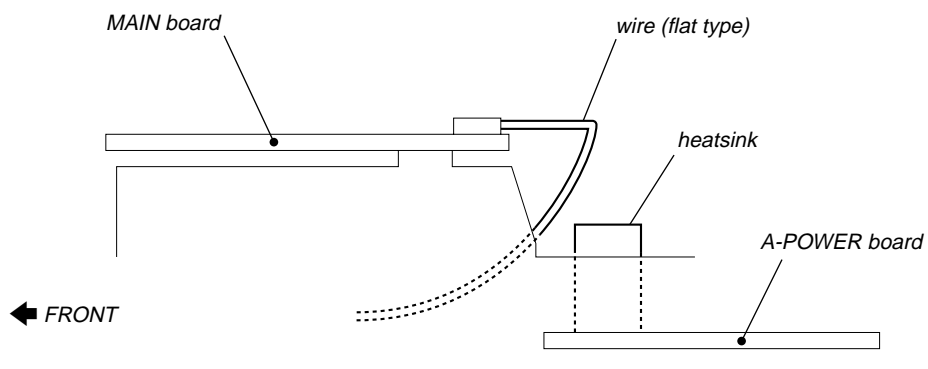


NOTE FOR INSTALLATION (AUDIO MODULE BLOCK)

Note: When installing the audio module block, insert the audio module block as shown below.



NOTE ON POSITION OF WIRE (FLAT TYPE)

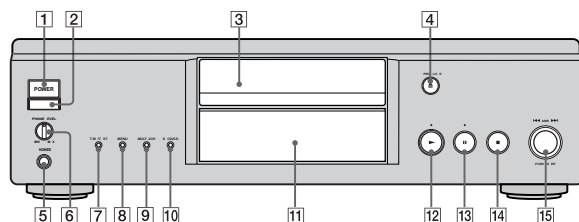


*Heatsink gets heated up to a high temperature.
Be careful to keep the position of wire (flat type).*

SECTION 2 GENERAL

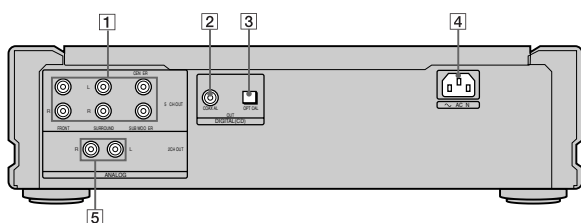
This section is extracted from instruction manual.

Front Panel Parts Descriptions



- 1 POWER switch (14)**
Press to turn on the player
- 2 Remote sensor (4)**
- 3 Disc tray (14)**
Press \triangle OPEN / CLOSE to open / close the disc tray
- 4 \triangle OPEN / CLOSE button (14)**
Press to open the disc tray
- 5 PHONES**
Connect the headphones
During playback of a Multi channel Super Audio CD, no signal of the Multi channel signal is output from the PHONES jack (see page 7)
- 6 PHONE LEVEL**
Adjust the headphones volume
- 7 TIME/TEXT button (15)**
Each time you press the button, the playing time of the track, the total remaining time on the disc, or TEXT information appears in the display
- 8 MENU (13)**
Press to enter the menu
- 9 MULTI/2CH button (with an LED) (14)**
Each time you press the button while the 2 channel + Multi channel Super Audio CD (page 13) is loaded, the playback area changes between the multi channel playback area (the LED turns on) and 2 channel playback area (the LED turns off)
- 10 SACD/CD button (with an LED) (14)**
Each time you press the button while the Hybrid disc (page 13) is loaded, the layer changes between the HD layer (the LED turns on) and CD layer (the LED turns off)
- 11 Display window (15)**
Shows various information
- 12 \blacktriangleright button (14)**
Press to start play
 \blacktriangleright indicator
Lights up during playback
- 13 \parallel button (14)**
Press to pause play
 \parallel indicator
Lights up during pause
- 14 \blacksquare button (14)**
Press to stop play
- 15 \lll AMS \ggg dial (AMS: Automatic Music Sensor) (13)**
When you turn the \lll AMS \ggg dial counterclockwise by one click, you go back to the preceding track; when you turn the \lll AMS \ggg dial clockwise by one click, you go to the succeeding track

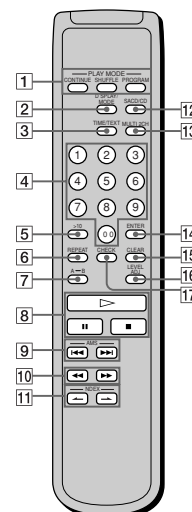
Rear Panel Parts Descriptions



- 1 ANALOG 5.1CH OUT jacks (5)**
Connect to an amplifier equipped with the 5.1CH input jacks (Multi-channel amplifier, AV amplifier, etc.) using the audio connecting cords.
 - 2 DIGITAL (CD) OUT COAXIAL connector (7)**
Connect to an audio component using the coaxial digital cable.
 - 3 DIGITAL (CD) OUT OPTICAL connector (7)**
Connect to an audio component using an optical digital cable.
 - 4 AC IN terminal (7)**
Connect the AC power cord.
 - 5 ANALOG 2CH OUT L/R jacks (6)**
Connect to an audio component (stereo/2 channel) using the audio connecting cord.
- Note**
Only the audio signals of the CD can be output from the DIGITAL (CD) OUT connectors shown in 2 and 3. Those of the Super Audio CD cannot be output through DIGITAL (CD) OUT

Remote Parts Descriptions

- 1 CONTINUE button (20)**
Press to resume normal play from Shuffle Play or Programme Play.
- SHUFFLE button (20)**
Press to select Shuffle Play.
- PROGRAM button (21)**
Press to select Programme Play.
- 2 DISPLAY MODE button (16)**
Press to turn off the information.
- 3 TIME/TEXT button (15)**
Each time you press the button, the playing time of the track, the total remaining time on the disc, or TEXT information appears in the display.
- 4 Number buttons (18)**
Press to enter the track numbers.
- 5 >10 button (18)**
Press to locate a track numbered over 10.
- 6 REPEAT button (19)**
Press repeatedly to play all tracks or only one track on the disc.
- 7 A \leftrightarrow B button (20)**
Press to select Repeat A-B Play.
- 8 \blacktriangleright button (14)**
Press to start play.
 \parallel button (14)
Press to pause play.
 \blacksquare button (14)
Press to stop play.
- 9 AMS \lll \ggg buttons (18) (AMS: Automatic Music Sensor)**
Press to locate a specific track.
- 10 \lll \ggg buttons (18)**
Press to locate a portion you want to play within a track.
- 11 INDEX \lll \ggg buttons (18)**
Press to locate a specific point marked with an index signal when you play a disc that has index signals.
- 12 SACD/CD button (14)**
Each time you press the button, "SACD" or "CD" appears in the display. Select the type of CD you want to play.
- 13 MULTI/2CH button (14)**
Press to select the playback area when the 2 channel + Multi-channel Super Audio CD (page 13) is loaded.
- 14 ENTER button (25)**
Press to decide the selection.
- 15 CLEAR button (21)**
Press to delete a programmed track number.
- 16 LEVEL ADJ button (25)**
Press to adjust the output level balance for the Multi-channel management function (page 23).
- 17 CHECK button (21)**
Press to check the programmed order.



SECTION 3 DISASSEMBLY

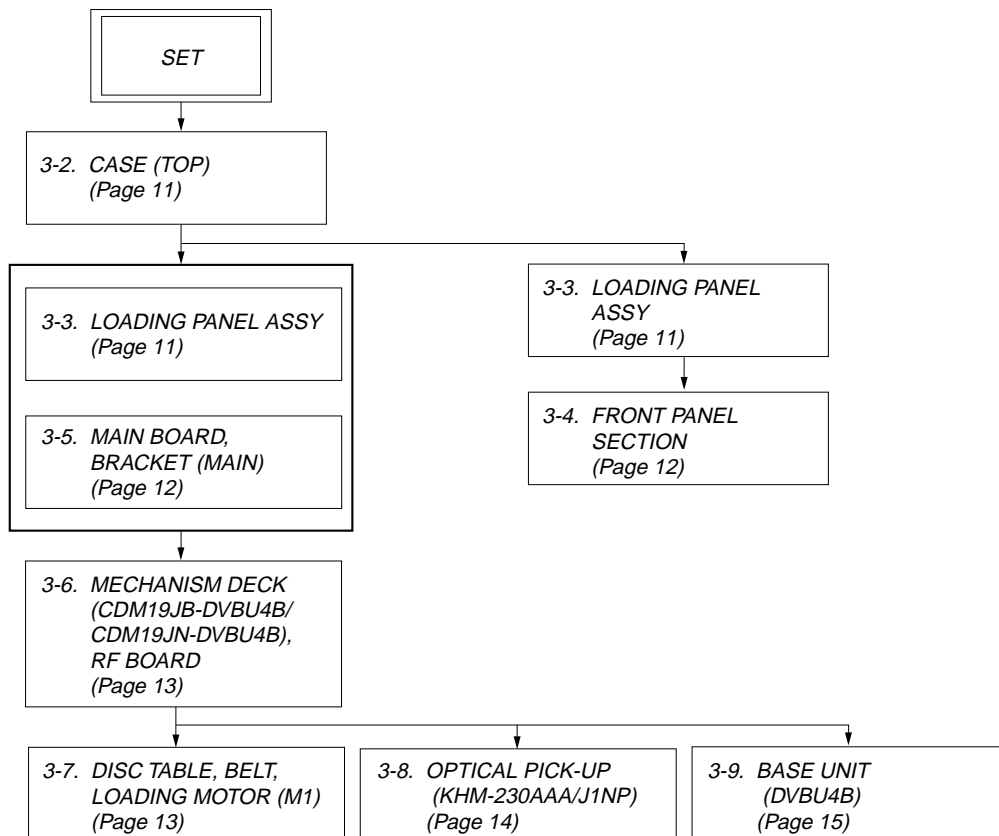
• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

Note 1: The process described in ④ can be performed in any order.

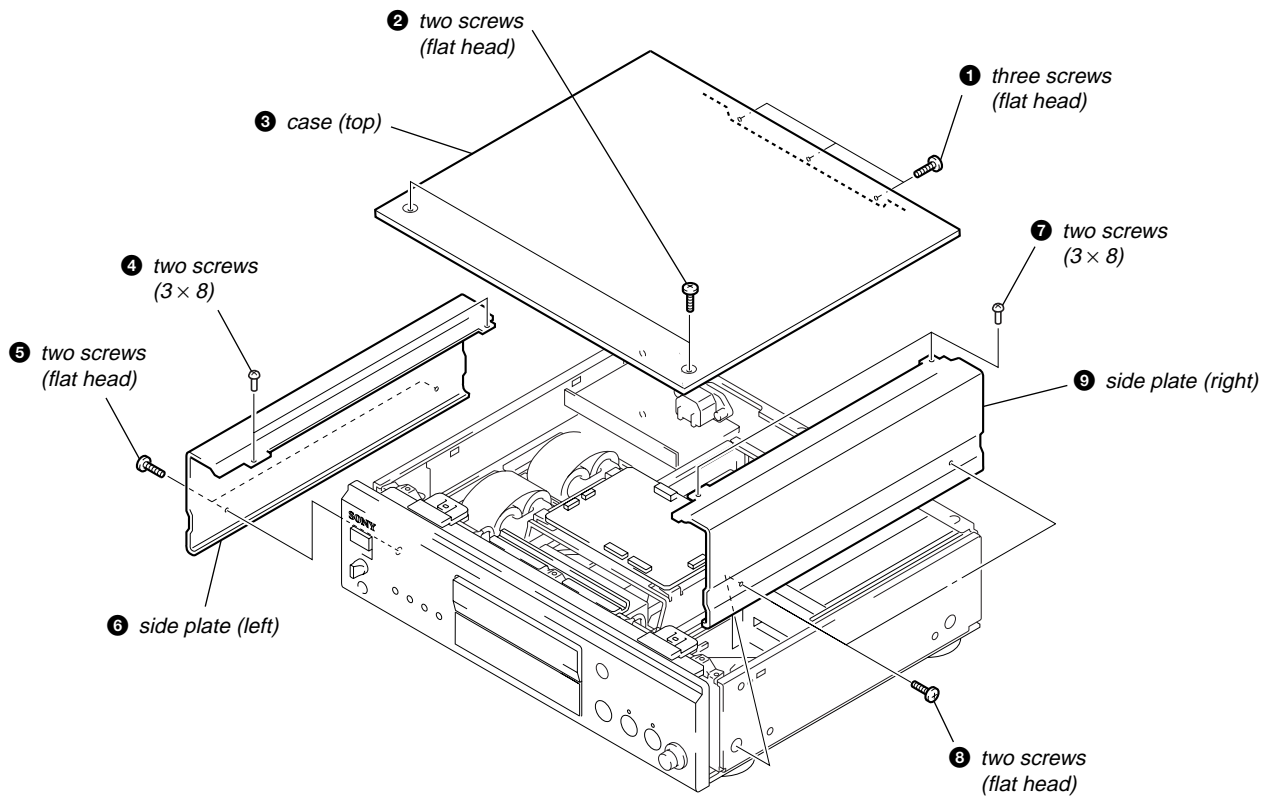
Note 2: Without completing the process described in ④, the next process can not be performed.

Note 3: Illustration of disassembly is omitted.

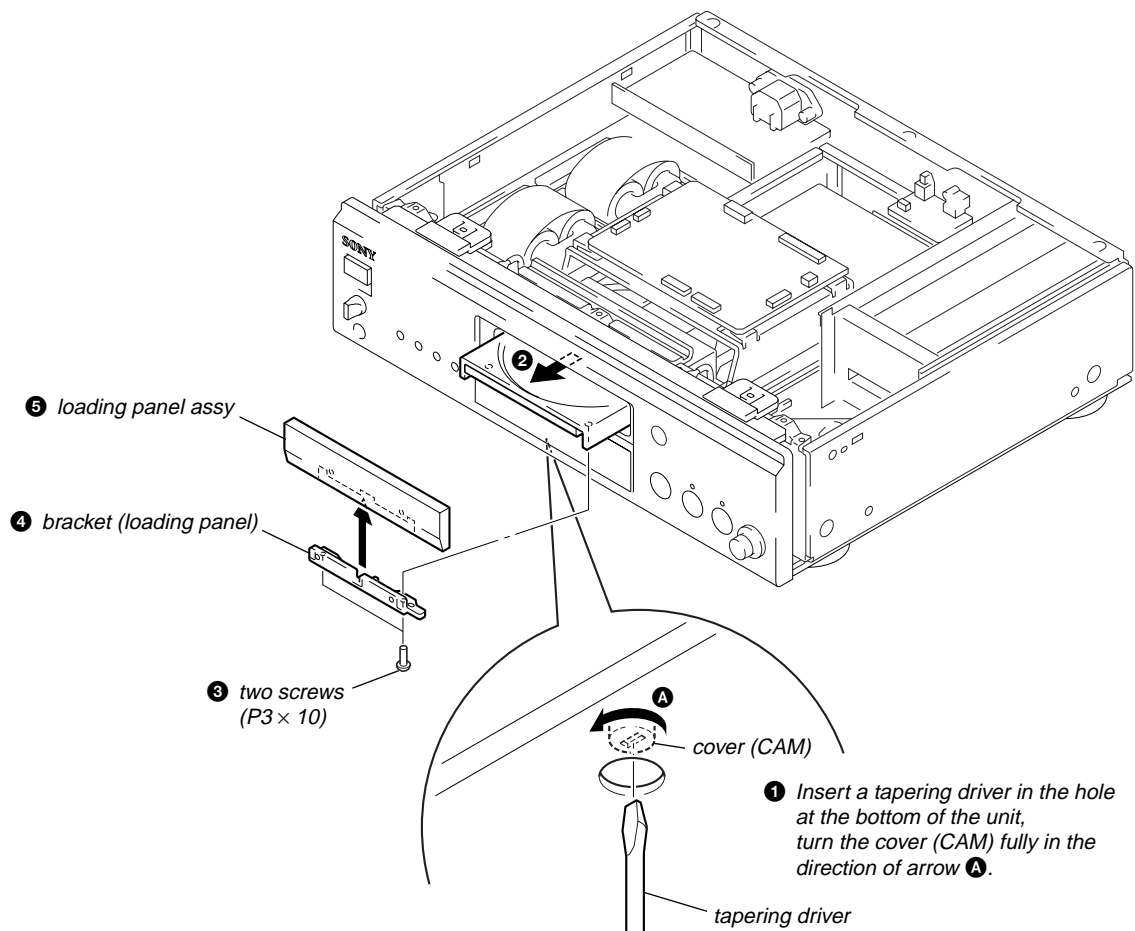


Note: Follow the disassembly procedure in the numerical order given.

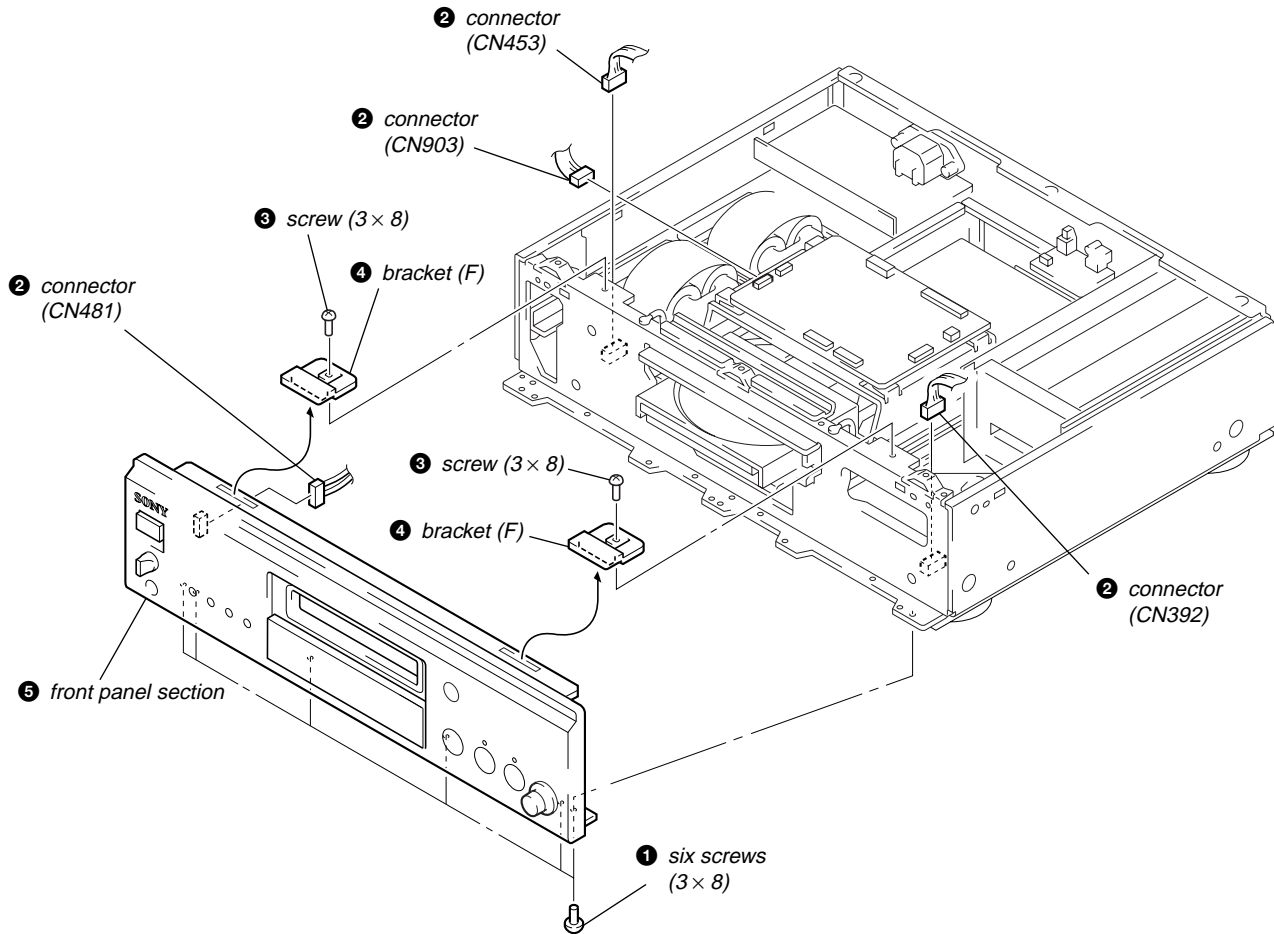
3-2. CASE (TOP)



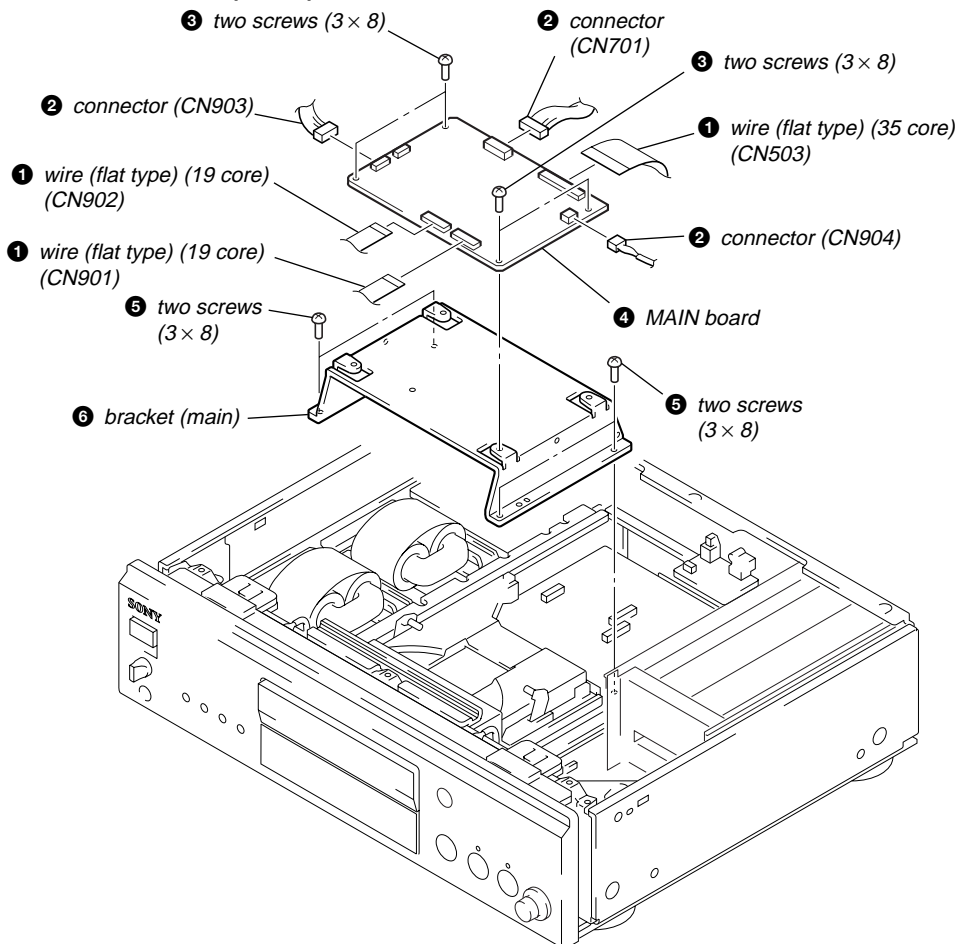
3-3. LOADING PANEL ASSY



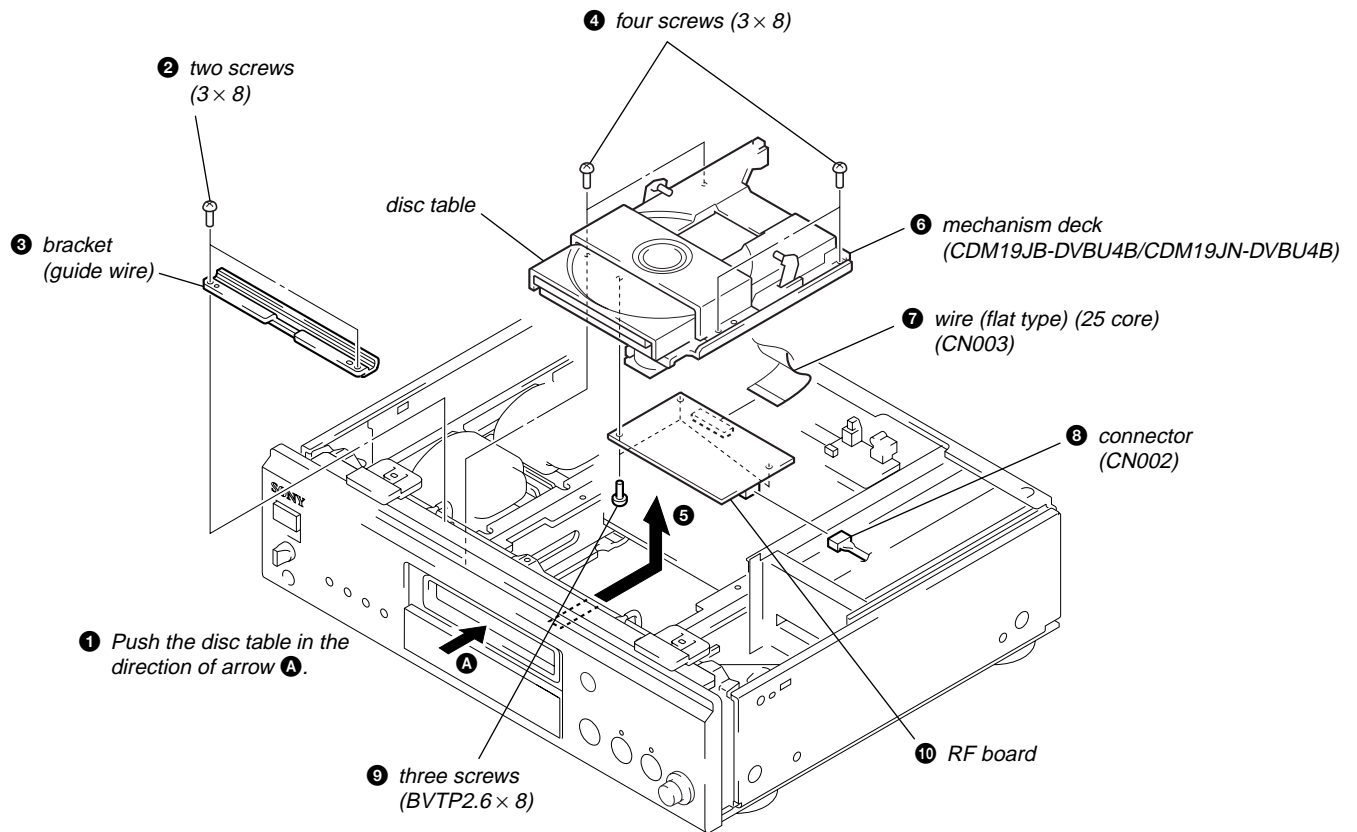
3-4. FRONT PANEL SECTION



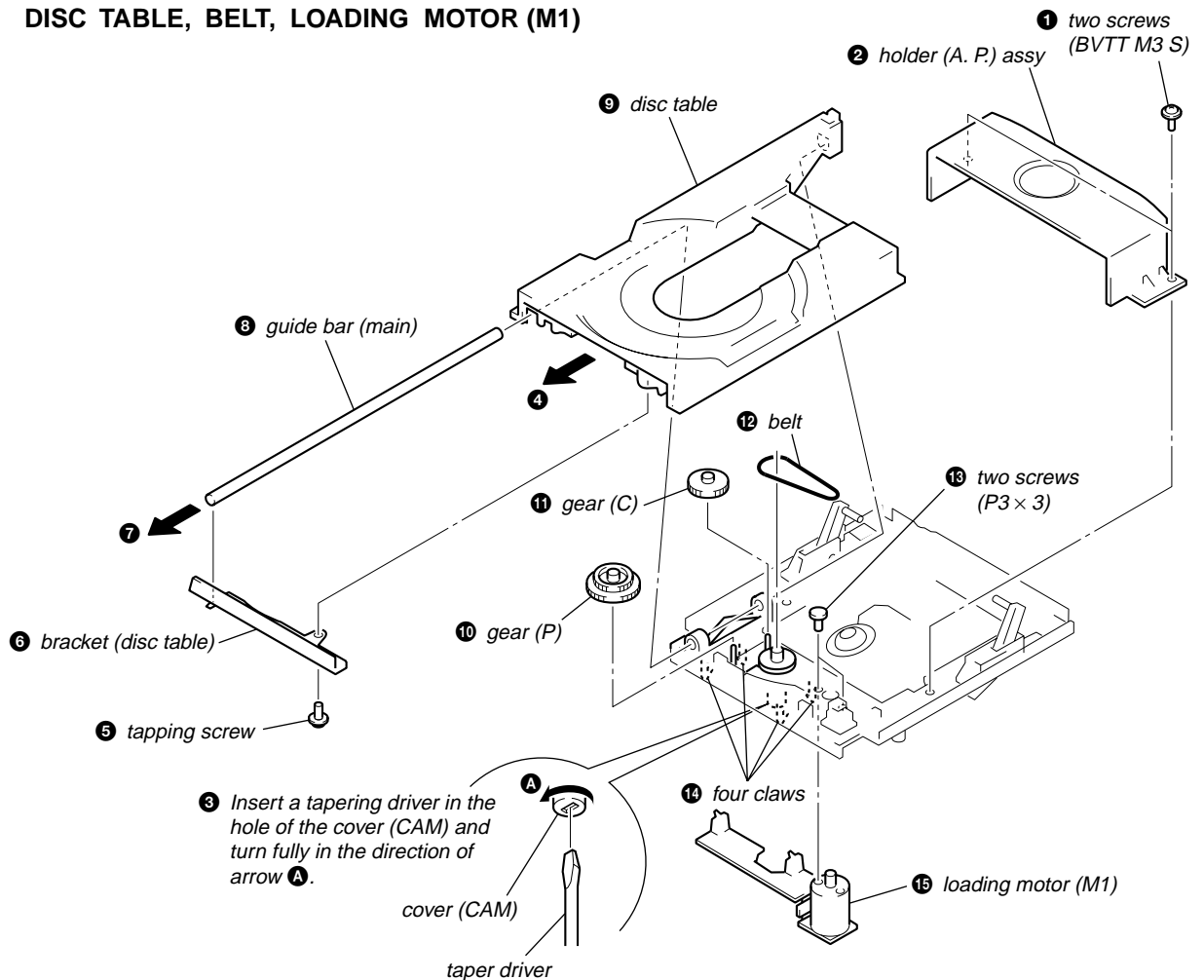
3-5. MAIN BOARD, BRACKET (MAIN)



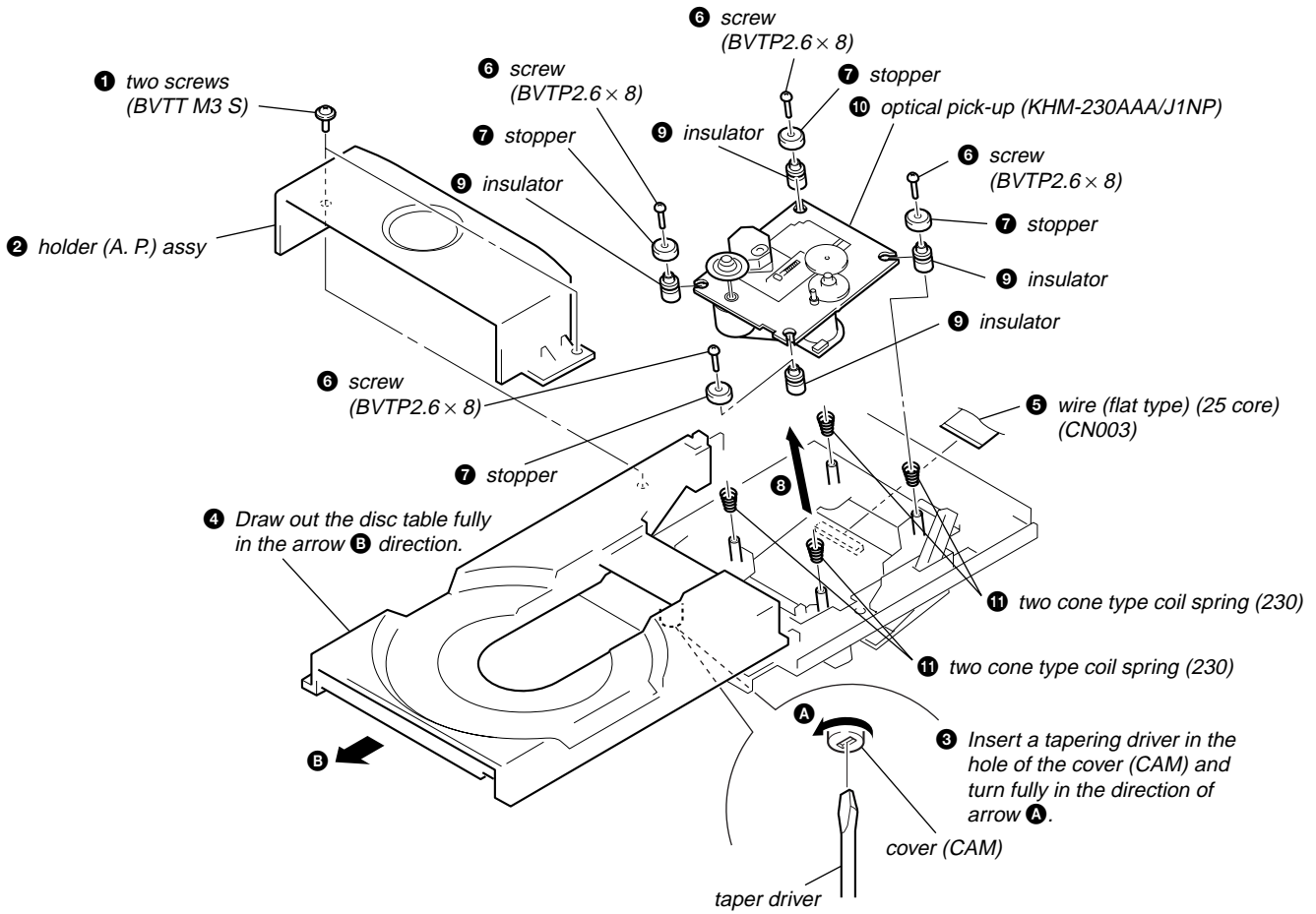
3-6. MECHANISM DECK (CDM19JB-DVBU4B/CDM19JN-DVBU4B), RF BOARD



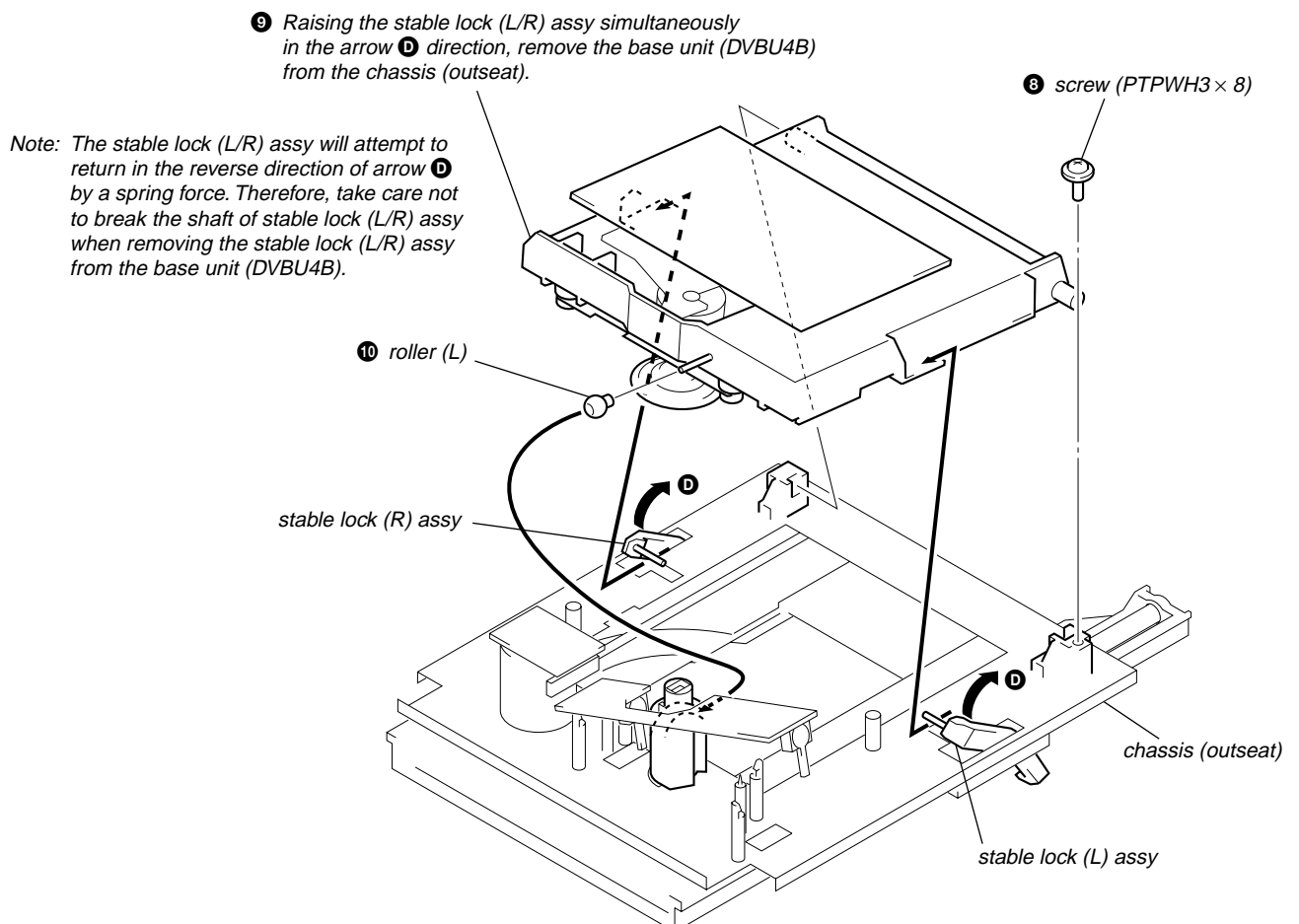
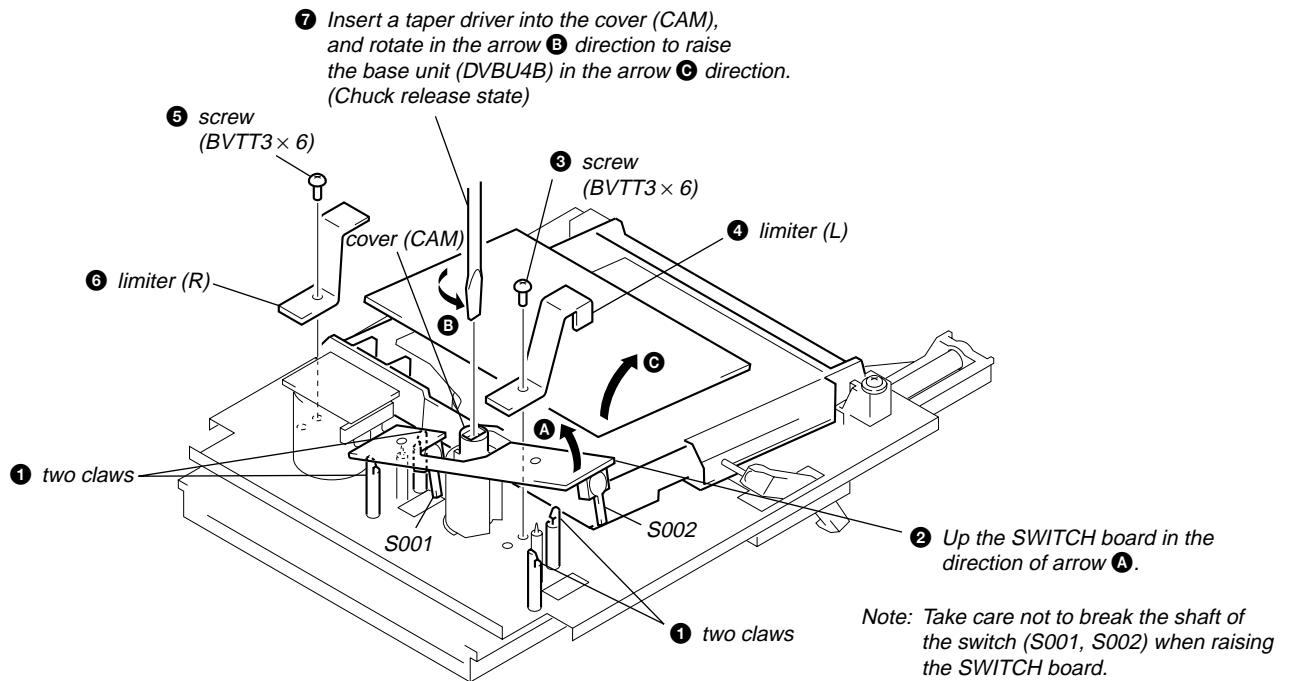
3-7. DISC TABLE, BELT, LOADING MOTOR (M1)



3-8. OPTICAL PICK-UP (KHM-230AAA/J1NP)



3-9. BASE UNIT (DVBU4B)



SECTION 4
TEST MODE

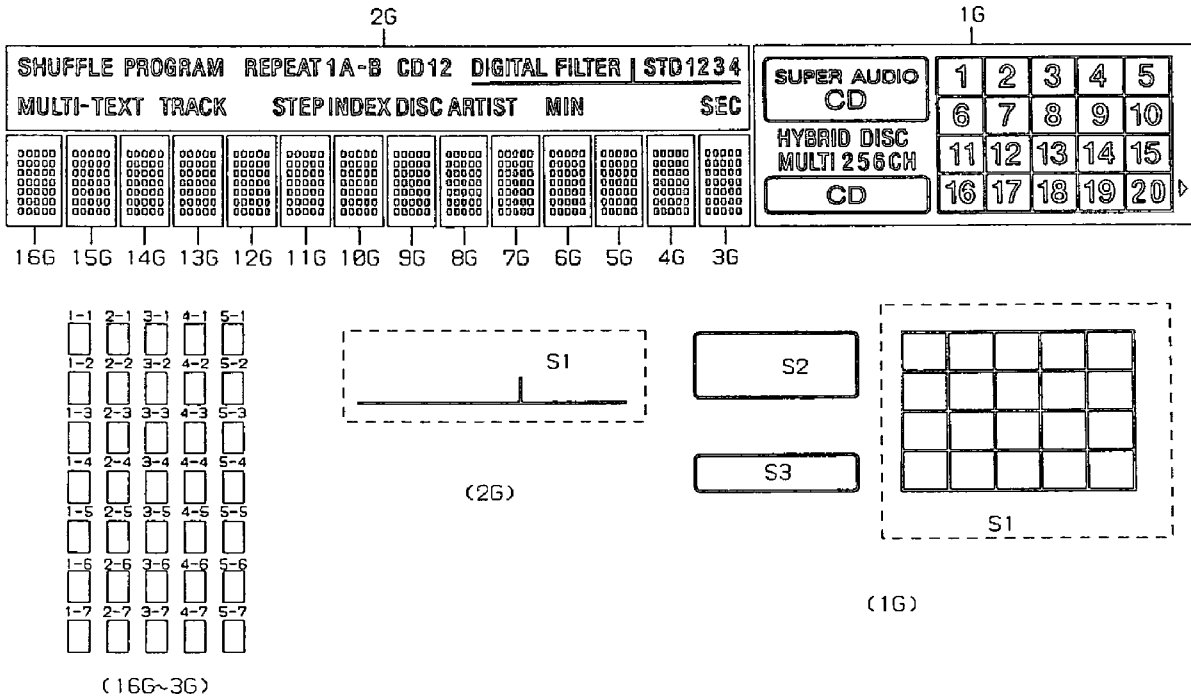
FLUORESCENT INDICATOR TUBE MODE

Procedure:

1. Press the **POWER** button while shorting the BP (TEST MODE) on the PANEL board, and turn on the power so that the following operations will be executed automatically.
 - ① Grid of all segments lights up sequentially starting from 1G to 16G.
 - ② The vertical line (total 5 lines) of all grids lights up sequentially in the range of 3G to 16 G starting from the left.
 - ③ The horizontal line (total 7 lines) of all grids lights up sequentially in the range of 3G to 16G starting from the top.
 - ④ Grids from 5G to 6G go off.
2. With the machine in the status that is set in step 1-④, press any on the remote commander. The grids 1G and 2G go off and then the machine enters the key check standby state. (When the **OPEN/CLOSE** key or the **■** key is pressed, the reception check is canceled.)

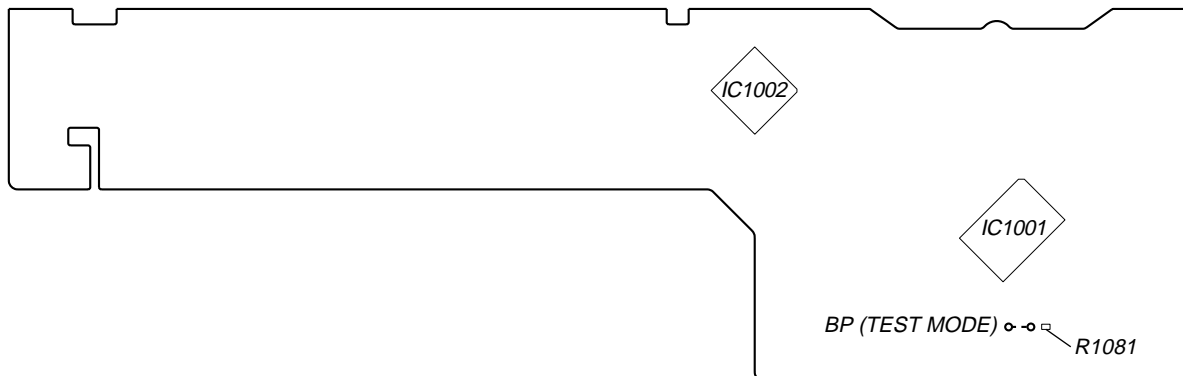
3. After the key check is completed, turn JOG clockwise to turn on the calendar segments sequentially. When the segment "20" is confirmed, turn JOG counter-clockwise that turns off the calendar segment. When the segment "1" is confirmed, this is the end of check.
4. After all the checks are completed, confirm to see that the display "!!%TEST-END!!%" appears. The message indicates that the check is ended normally.
5. Press the **POWER** button to turn off the main power and disconnect the power plug from the wall outlet.

Grid Assignment:



Shorting Location:

– PANEL Board (Conductor Side) –



This set automatically executes self-diagnosis and various checks by entering the test mode.

Note: This set automatically makes various adjustments according to the type of disc, thereby not requiring adjustment of the set when parts were replaced. However, be sure to execute 4-1. IC AND FLUORESCENT DISPLAY TUBE CHECK, 4-2. AUTO CHECK and 4-7. WAVEFORMS CHECK.

Disc for Test Mode

Various checks of this set require the following discs.

| Model | Type *1 | Category | Application |
|---|---------|------------------------------|---|
| MODEL SATD-S5 (J-2501-215-A) SATD-S4 (J-2501-184-A) | SL | 12 cm disc Reference disc | Adjusted value check, Operation check, Optical waveform check |
| Not specified | DL | 12 cm disc | Operation check |
| PATD-012 (4-225-203-01) YEDS-18 (3-702-101-01) | CD | 12 cm disc Reference disc | Adjusted value check, Operation check, Optical waveform check |
| Not specified | HYBRID | 12 cm disc | Operation check |

*1 SL: Single Layer
DL: Dual Layer

Setting Method of Test Mode

Turn the **POWER** switch on while pressing the **AMS** dial and the **TIME/TEXT** button. Release the **TIME/TEXT** button and the **AMS** dial in this order when "TEST MODE Menu" is displayed on the fluorescent display tube. (If the **AMS** dial is released first, the test mode becomes active but "TEST MODE Menu" is not displayed)

Releasing Method of Test Mode

To release the test mode, turn the **POWER** switch off.

Selection/Entry of Test Mode

To select and enter the "TEST MODE Menu", operate as follows.

1. Rotate the **AMS** dial to select the menu, and press the **AMS** dial to enter.
2. The test is switched on or off alternately each time the **AMS** dial is pressed.
3. To return to the previous step, rotate the **AMS** dial to select the desired item, and press the **AMS** dial to enter.

Test Mode Command List

The contents of test mode are as follows.

Note: Wrong operation in the test mode causes a trouble, thus requiring extreme care.

LINE command (1X): Use mainly for a manufacturing line.

| No. | Name | Description | Remarks |
|-----|----------|--|--|
| 05 | DSP MON1 | XUGF, XPCK, C2PO outputted from IC509 (CD DSP) | Not used for the servicing |
| 06 | DSP MON2 | MNT0, MNT1, MNT2, MNT3 outputted from IC509 (CD DSP) | Not used for the servicing |
| 07 | DSP MON3 | RFCK, XPCK, XROF, GTOP outputted from IC509 (CD DSP) | Electrical measurement, CD CLV jitter measurement |

STANDARD command (1X): Use when the servo is applied by manual operation.

| No. | Name | Description | Remarks |
|-----|-------------|--|------------------------------------|
| 12 | LD ON/OFF | The laser diode is turned on or off | On or off are switched alternately |
| 13 | SPIN ON/OFF | The spindle motor is rotated with the regulated voltage | On or off are switched alternately |
| 14 | FSRV ON/OFF | The focus servo is turned on or off | On or off are switched alternately |
| 15 | TSRV ON/OFF | The tracking servo is turned on or off | On or off are switched alternately |
| 16 | CLV ON/OFF | The spindle SLV servo is turned on or off Focus and tracking servos must be already turned on | On or off are switched alternately |
| 17 | SSRV ON/OFF | The sled servo is turned on or off Focus, tracking and spindle servos must be already turned on | On or off are switched alternately |
| 18 | ALL SRV ON | All servos are turned on | |
| 19 | ALL SRV OFF | All servos are turned off | Stop command in the test mode |

FOCUS command (2X): Focus related. (All servos must be already turned on (except command 21))

| No. | Name | Description | Remarks |
|-----|--------------|--|---|
| 21 | FSRCH ON/OFF | The continuous vertical motion of the optical pick-up lens is turned on or off | Avoid a long-time use |
| 22 | F-BIAS UP | Increase focus bias | Focus bias value |
| 23 | F-BIAS DOWN | Decrease focus bias | Focus bias value |
| 24 | ADJ FCSBIAS | The focus bias is adjusted automatically Both + and - directions are searched to search for best jitter point | |
| 25 | FGAIN UP/DW | The focus servo gain is switched between normal and down | Normal or down are switched alternately |
| 26 | FJMP UP/DWN | Focus jump is executed UP: layer 0→1, DOWN: layer 1→0 | Valid only for DL |
| 27 | FOCUS AGC | The focus servo gain is adjusted automatically | |
| 28 | DISP FBdata | The focus bias adjusted value is displayed | Hexadecimal display 9 bit data |

Note: On or off and up or down are switched alternately

OFFSET (PI, FE, TE) command (3X): Adjusts the offset of PI, FE and TE signals.

| No. | Name | Description | Remarks |
|-----|-------------|--|--|
| 31 | PI/FE OFSET | Adjusts the offset of PI, FE and TE signals This adjustment must be executed after 61 DISC DETECT | TE offset adjustment is executed for the CD only |

TRACKING command (4X): Tracking servo related.

| No. | Name | Description | Remarks |
|-----|--------------|---|---------------------------------------|
| 41 | TGAIN NM/UP | The tracking servo gain is switched between normal and up | Normal or up are switched alternately |
| 44 | ADJ TRK DSP | The traverse AGC and E-F balance adjustment is performed | |
| 45 | TRACKING AGC | The tracking servo gain is adjusted automatically | |

SEARCH command (5X): Track search related. (Nos. 51 through 53 are not used for the servicing.)

| No. | Name | Description | Remarks |
|-----|-------------|-------------------------------|---------|
| 51 | 1-TRCK JUMP | One-track jump is performed | |
| 52 | M-TRCK MOVE | M-track movement is performed | |
| 53 | FINE SEARCH | Fine search is performed | |

DISC DETECT command (6X): Disc type check related.

| No. | Name | Description | Remarks |
|-----|-------------|--|---|
| 61 | DISC DETECT | Disc type check is executed Display after judgment DSKMOD CD: Judged as CD DSKMOD SL: Judged as SACD (SL) DSKMOD DL: Judged as SACD (DL) DSKMOD HLHD: Judged as HYBRID HD DSKMOD CDRW: Judged as CD-RW | Refer to how to apply servo by manual operation (19 page) |
| 62 | SET DISC CD | Enter disc type CD setting | CD forced setting |
| 63 | SET DISC SL | Enter disc type SL setting | SL forced setting |
| 64 | SET DISC DD | Enter disc type DD setting | DD forced setting |
| 65 | SET DISC HH | Enter disc type HYBRID HD setting | HD forced setting |
| 66 | SET DISC HC | Enter disc type HYBRID CD setting | CD forced setting |

TOOLS command (8X): Performs aging, reads adjusting parameters, etc.

| No. | Name | Description | Remarks |
|-----|-------------|---|--|
| 81 | VERSION | Firmware version is displayed | Example: Ver 1.00 |
| 83 | TRAY AGING | Tray open-close aging is performed Not used for the servicing | Number of times and eccentricity measurement Not used in this set. |
| 84 | JITTER | Jitter measurement | Not used for the servicing |
| 85 | ERROR RATE | Error rate measurement CD: C1, C2 SACD: PO, PI1, PI2 | Error rate Not used for the servicing |
| 86 | ALL SRV ON | Apply all servos Full automatic measurement including PI, FE and TE offset adjustment is performed | Use when applying the servo by manual operation Refer to STANDARD command (17 page) |
| 87 | DISP ADJ DT | Automatic adjusting parameters are displayed The offset adjusted values are scroll-displayed in order of RF, VC, FE and TE | Refer to auto check items (22 page) Refer to auto check items (22 page) |
| 8d | Set Up Init | Set to factory shipping mode PLAY, REPEAT, DIGIFIL, etc. are initialized | Set when repair completed Refer to 4-6. SHIPPING MODE (26 page) |
| 8F | 49 TRCK JIT | Used for jitter measurement of 49th music on SACD-S4 | For manufacturing line Not used for the servicing |

QA command (9X)

| No. | Name | Description | Remarks |
|-----|---------------|---|---|
| 92 | SET CHECK | The set is checked | Refer to 4-2. AUTO CHECK (22 page) |
| 94 | SET AGING | The set aging is performed Repeat by the specified number of times or until an error occurred | Refer to 4-5. AGING MODE (26 page) |
| 95 | DISPLAY ERROR | The content of error recorded to the set is read and displayed (Error recording) Only one item is recorded | |
| 96 | D-OUT OnOff | Digital out of CD is turned on or off | Not used in this set. |
| 98 | APDO JITTER | | Not used for the servicing |
| 9C | BU DENCHO | The content of error recorded to the set is read, and then the S curve waveform, traverse waveform, and RF waveform can be checked successively | Refer to 4-7. WAVEFORMS CHECK (28 page) |
| 9D | P-ON HOUR | Approximate cumulative power supplying time is displayed (Initialized by 8d command) | In unit of 1 hour |
| 9E | RFD OUT | RFD output is turned on or off SACD jitter measuring mode | Not used for the servicing |

How to Apply Servo by Manual Operation

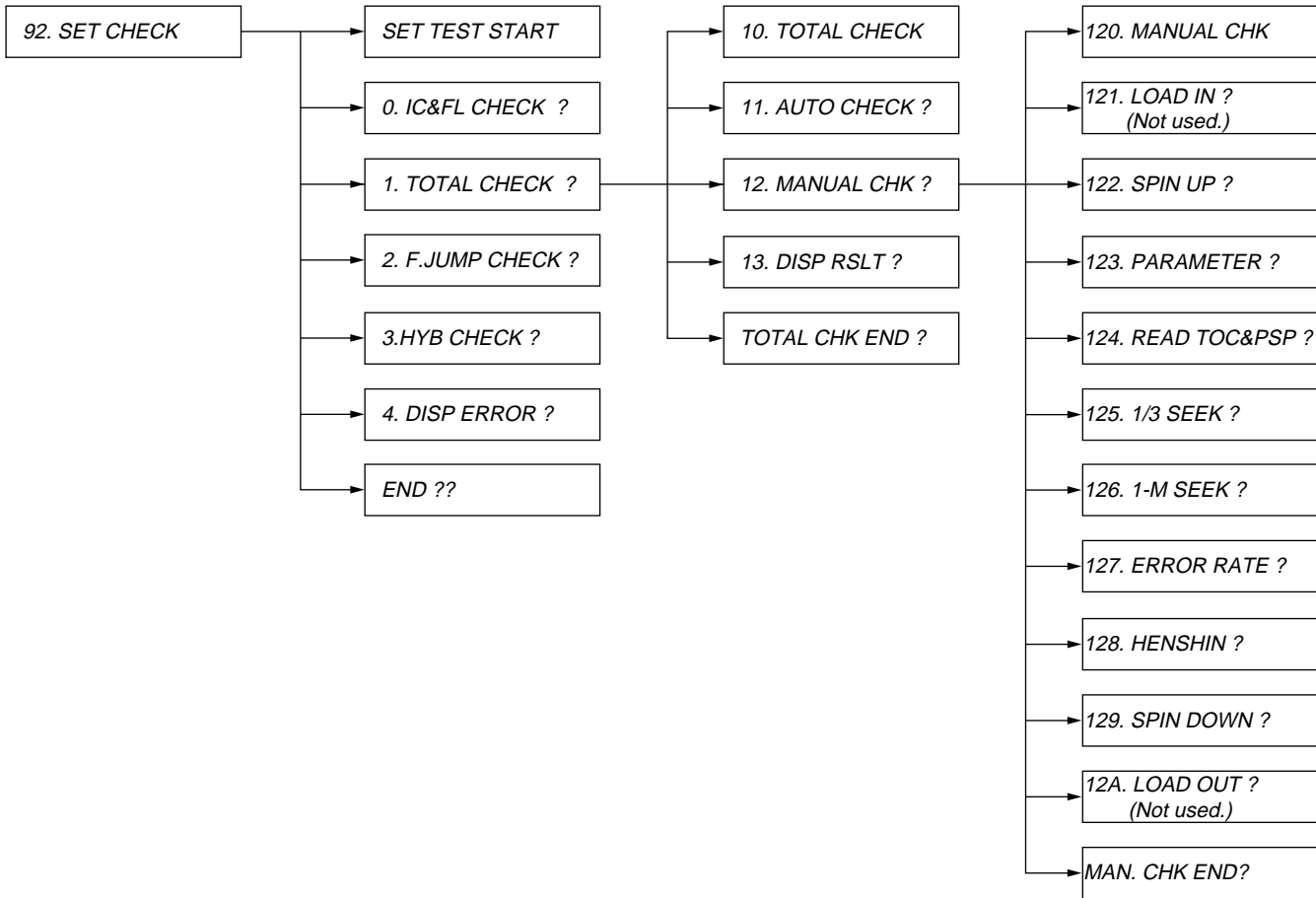
In analyzing failures of the set, the servo may be applied by manual operation. To apply servo in the test mode, use the following method.

1. After setting the test mode, rotate the $\lll \lll \text{AMS} \ggg \ggg$ dial to select a command, and press the $\lll \lll \text{AMS} \ggg \ggg$ dial to enter.
2. "61 DISC DETECT" (Disc type check) → "86 ALL SRV ON" (All servos on + auto adjustment)
3. If applying servo while checking the condition one by one, "61 DISC DETECT" (Disc type check) → "31 PI/FE OFFSET" (Offset automatic adjustment) → "14 FSRV ON/OFF" (Focus servo on) → "16 CLV ON/OFF" (CLV servo on) → "44 ADJ TRK DSP" (E-F balance adjustment) → "15 TSRV ON/OFF" (Tracking servo on) → "17 SSRV ON/OFF" (Sled servo on) → "24 ADJ FCSBIAS" (Focus bias adjustment) → "27 FOCUS AGC" (Focus auto gain adjustment) → "45 TRACKING AGC" (Tracking auto gain adjustment).

Note: 1. On and off are alternately switched in the same command.

2. For a stop, select "19 ALL SRV OFF" and press the $\lll \lll \text{AMS} \ggg \ggg$ dial.

Set Check



Press the [AMS] dial when No.□□□□□ □□□□□*1 is displayed, and a checking for that display will start or the lower layer will be selected. For the selection on the same layer, rotate the [AMS] dial. It is looped on the same layer, and when “END?” is displayed, press the [AMS] dial to return to the upper layer.

*1 □ denotes a displayed character.

Manual Check Method

In the “12. MANUAL CHK”, individual checks (121. LOAD IN to 12A. LOAD OUT) are possible.

Example: If 124. READ TOC of 12. MANUAL CHECK is to be checked.

Setting Method:

1. After setting the test mode, rotate the [AMS] dial to select “92. SET CHECK” and press the [AMS] dial to enter.
2. When “SET TEST START” is displayed, rotate the [AMS] dial clockwise by 2 clicks to select “1. TOTAL CHECK?” and press the [AMS] dial to enter.
3. When “10. TOTAL CHECK” is displayed, rotate the [AMS] dial clockwise by 2 clicks to select “12. MANUAL CHK?” and press the [AMS] dial to enter.
4. When “120. MANUAL CHK” is displayed, rotate the [AMS] dial clockwise by 4 clicks to select “124. READ TOC&PSP?” and press the [AMS] dial to enter.
5. A checking will start automatically.

Note: In making a check, the disc must be loaded. Immediately when a check started, the tray is drawn into the set. Also, the tray can be opened/closed even during the set check mode.

4-1. IC AND FLUORESCENT DISPLAY TUBE CHECK (SELF-DIAGNOSIS)

The communication between microcomputer and main ICs (self-diagnosis) and the fluorescent display tube all lit are checked.

Checking Method:

1. After setting the test mode, rotate the **◀◀AMS▶▶** dial to select "92. SET CHECK" and press the **◀◀AMS▶▶** dial to enter.
2. When "SET TEST START" is displayed, rotate the **◀◀AMS▶▶** dial clockwise by 1 click to select "0. IC&FL CHECK?" and press the **◀◀AMS▶▶** dial to enter.
3. A checking will start automatically, and "0. IC&FL CHECK" will be displayed. (Checking time is about 3 seconds)
4. After IC communication check, all segments of fluorescent display tube will be lit. At this time, check visually for a skipped character.
5. At successful completion of check, "0. IC CHECK OK" is displayed. In this case, no error exists in the IC interface. Proceed to 4-2. AUTO CHECK.

Note: The check mentioned above tests the communication from micro-computer to main ICs. Even if the check successfully finished, the IC to be checked is not always normal. Consider it for reference only.

6. In case of an IC communication error, the following display will be given during the checking. Possible causes of error are as listed below.

| Error display | Causes (typical example) |
|----------------|---|
| DVD DEC. ERROR | <ol style="list-style-type: none"> 1. IC701 (SACD decoder) is faulty 2. IC701 pin ⑮(XRST) does not go "H" <ul style="list-style-type: none"> • IC901 pin ④④ (XDIS) does not go "H" • IC902 (expander) is faulty 3. 768fs (33.86688 MHz) is not present to IC701 pin ⑮(XTAL) <ul style="list-style-type: none"> • IC811 (3-multiplying circuit) is faulty • Clock signal 256fs is not sent from MOTHER board (CN302 pin ④) • CN302 pin ①,⑤ (D.FGND) and pin ③ (+3.3V) are open or shorted • CN302 and FFC connection is loose, or FFC is disconnected |
| DVD DRAM ERR | <ol style="list-style-type: none"> 1. IC706 (D-RAM) is faulty 2. IC701 pin ⑮(XRST) does not go "H" <ul style="list-style-type: none"> • IC901 pin ④④ (XDIS) does not go "H" • IC902 (expander) is faulty 3. Faulty communication line between IC701 and IC706 <ul style="list-style-type: none"> • Data line, address line, WE, etc. 4. D903 (1SS367) is faulty |
| CD DSP ERROR | <ol style="list-style-type: none"> 1. IC509 (CD DSP) is faulty 2. 768fs (33.86688 MHz) is not present to IC509 pin ⑦(XTAL) Same as cause 3 of DVD DEC. ERROR 3. IC509 pin ② (XRST) does not go "H" <ul style="list-style-type: none"> • IC901 pin ④④ (XDIS) does not go "H" • IC902 (expander) is faulty |
| EEPROM ERROR | <ol style="list-style-type: none"> 1. IC903 (EEPROM) is faulty |

| Error display | Causes (typical example) |
|-------------------|--|
| PRAWN DRAM ERR *1 | <ol style="list-style-type: none"> 1. IC808 (D-RAM) is faulty 2. IC801 (DSD decoder) is faulty 3. 768fs (33.86688 MHz) is not present to IC801 pin ⑩ (MCKI) Same as cause 3 of DVD DEC. ERROR 4. IC801 pin ⑨ (XRST) does not go "H" <ul style="list-style-type: none"> • IC901 pin ④④ (XDIS) does not go "H" • IC902 (expander) is faulty 5. Faulty communication line between IC801 and IC808 <ul style="list-style-type: none"> • Data line, address line, WE, etc. 6. D904 (1SS367) is faulty D+3.3V is not present to IC808 |
| RF AMP ERROR | <ol style="list-style-type: none"> 1. IC001 (RF AMP) is faulty 2. Loose connection between CN503 on MAIN board and CN001 on RF board, or FFC disconnection CN503 pin ⑲ (CLK RF), pin ⑳ (DATA RF) and pin ㉑ (SDEN) must be checked |

*1 DSD decoder is also checked.

Causes Common to Each IC:

1. Faulty communication line between microcomputer and each IC.
Disconnected patterns, floating series resistors, bridge, etc.
2. Faulty IC supply voltage.
Particularly, check D+3.3V voltage. (D+5V for display microcomputer)
3. Faulty microcomputer communication port to each IC

Note: In case of more than two errors, the error display is switched over one after another, thus making the reading difficult. In such a case, press again the **◀◀AMS▶▶** dial to make a recheck for error reading.

4-2. AUTO CHECK (AUTOMATIC VARIOUS MEASUREMENTS)

The auto check is performed to check if the set operates stably. Though a checking is made automatically, whether the measured data are within the specification is evaluated by the service person. The auto check results in NG immediately, if the check itself causes an error.

Setting Method of Auto Check Mode:

1. After setting the test mode, rotate the [◀◀ AMS ▶▶] dial to select “92. SET CHECK” and press the [◀◀ AMS ▶▶] dial to enter.
2. When “SET TEST START” is displayed, rotate the [◀◀ AMS ▶▶] dial clockwise by 2 clicks to select “1. TOTAL CHECK?” and press the [◀◀ AMS ▶▶] dial to enter.
3. When “10. TOTAL CHECK” is displayed, rotate the [◀◀ AMS ▶▶] dial clockwise by 1 click to select “11. AUTO CHECK?”.

CD and SACD (SL) Disc Operation Check

Checking method:

1. Press the [OPEN/CLOSE] button to open the tray and place the test disc *1. The [OPEN/CLOSE] key is disabled immediately after the machine enters the TEST mode. Be sure to initialize the table.
2. Press the [◀◀ AMS ▶▶] dial, and the following check will be performed automatically.
3. Finally, the test disc will be ejected and the auto check will finish.
4. “AUTO CHECK OK” will be displayed at successful completion of auto check.
5. Recheck is enabled if the [◀◀ AMS ▶▶] dial is pressed in step 4. (Also, use this operation when exchanging the test disc)
6. In case of an error during the checking, the check is interrupted automatically and the error is displayed. (Error display example: “DISC DETECT ERROR”) After error display, “CONT?STOP (J/S)” is displayed. In this case, if the [◀◀ AMS ▶▶] dial is pressed, the check where the error occurred is skipped and you can proceed to the next check. Also, if the [■] button is pressed, the check finishes and “AUTO CHECK NG” is displayed when even one NG item exists.

*1 Use PATD-012 or YEDS-18 for CD, and SATD-S5 or SATD-S4 for SACD (SL). Using another disc will result in a checking failure.

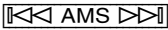

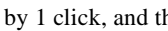
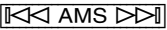
Check Items:

| Items | Description | Remarks |
|---|--|---|
| LOAD IN TIME (msec) | Time until a disc is chucked from the state where loading tray is out | Loading in switch H→L |
| SPIN UP TIME (msec) | Time from spindle kick to PLL lock | Lock signal L→H |
| RF/VC/FE/TE (ORG) | Offset values before RF (PI), VC, FE, TE signal offset adjustment RF (8 bit data in hex notation) VC, FE, TE (9 bit data in hex notation) | At offset 0 RF: A0h VC, FE, TE: 00h |
| RF/VC/FE/TE (ADJ) | Offset values after RF (PI), VC, FE, TE signal offset adjustment (Less than ORG value if offset correction is normal) RF (8 bit data in hex notation) VC, FE, TE (9 bit data in hex notation) | VC offset is not adjusted (Measurement only) Also, for SACD, the TE offset is not measured and adjusted |
| PI/TRVS PP (ORG/ADJ) | PI (ORG): PI value at disc type check (decimal data) PI (ADJ): PI value after PI offset adjustment (read value at microcomputer A/D) (decimal data) TRVS PP (ORG): Traverse level before level correction (AGC) (decimal data) TRVS PP (ADJ): Traverse level after level correction (AGC) (decimal data) | PI level conversion Read value × 12.9mV Traverse level conversion Read value × 12.9mV 12.9mV=3.3V ÷ 256 (8 bit) |
| PIOR/CCR/TRCR | PIOR: Set value of PI offset coarse adjusting register CCR: Set value of FE offset coarse adjusting register TRCR: Set value of TE offset coarse adjusting register | Registers in RF amplifier |
| FOCUS/TRK GAIN | Auto gain adjusted values of focus and tracking servos (8 bit data in hex notation) | Reference: 30h |
| FBIAS/TRVSC/TRCR2/CFR | FBIAS: Focus bias set value (9 bit data in hex notation) TRVSC: Traverse center value (9 bit data in hex notation) TRCR2: Set value of E-F balance coarse adjusting register CFR: Set value of traverse level adjusting register | TRCR2 adjusts the E-F gain balance and used for CD only (Fixed to 06 for SACD) TRCR2 and CFR are registers in RF amplifier |
| MIN JITTER AT F.BIAS | Minimum jitter value in focus bias adjustment (CD only) | Correlative with RF jitter |
| READ TOC TIME (msec) | Time required for TOC reading | |
| PSP AMPLITUDE | | SACD only |
| 1/3 SEEK TIME F) AVE/MIN/MAX (msec): R) AVE/MIN/MAX (msec): | Seek time between 1/3LBA and 2/3LBA of the disc 1/3LBA→2/3LBA average/minimum/maximum 2/3LBA→1/3LBA average/minimum/maximum | LBA: Absolute address |
| 1/MAX SEEK TIME F) AVE/MIN/MAX (msec): R) AVE/MIN/MAX (msec): | Seek time between most inward track (0LBA) and most outward track max LBA most inward→most outward average/minimum/maximum most outwar→most inward average/minimum/maximum | |
| ERROR RATE | Error rate measurement For CD: Average value/Maximum value of C1 and C2 For SACD: Average value/Maximum value of PO, P1 and P2 | Measure for 10 sec at track No.5 For the SACD, 160 block data except the data under tracking jump |

| Items | Description | Remarks |
|-----------------------|---|--|
| HENSIN | Eccentricity measurement Eccentricity (actual eccentric amount) of disc, disc pulley total | For the CD only are measured • Read by dividing by 10 • 0 may be displayed if eccentricity is small (10um or less) (Due to measurement reason) |
| SPIN DOWN TIME (msec) | Time from spindle brake application to rotation stop | FG (IC901 pin ②) monitoring |
| FG LEVEL [STEP] | FG value of discs inner position | |
| LOAD OUT TIME (msec) | Time until loading table comes out from the state where a disc is in chuck | Loading out switch H→L |

Measured Data Reading Method:

To judge the check result, the measured data must be read.

- When "AUTO CHECK OK" is displayed, rotate the  dial clockwise by 2 clicks.
- When "13. DISP RSLT?" is displayed, press the  dial to enter.
- "PLEASE WAIT" will be displayed and in several seconds, "13. DISP RESULT" will be displayed.
- Rotate the  dial clockwise by 1 click, and the "LOAD IN" will be displayed.
- Press the  dial to enter. The LOAD IN TIME measured value will be displayed.
- Compare the displayed value with the following specified value.
- Hence, repeat step 4 to 6 (display is variable) and read the measured data respectively.
- Compare the measured data with the specified value to check for NG item.

Note: Blank display of measured value means that an error occurred during the checking or no measurement was taken place.

Specified Value:

(1) SACD (Use the test disc SATD-S5 or SATD-S4)

Note: Measured values in check items are typical ones.

| Check items | Specified value |
|--|--|
| LOAD IN TIME (msec) : | 3000 msec or less |
| SPIN UP TIME (msec) : 1652 | 3000 msec or less |
| RF/VC/FE/TE AVRG (ORG) : 98, C, 1DE, 0 | RF: 7E-9E, VC: 1F1-10, FE: 1B8-42, TE: 1BB-5C |
| RF/VC/FE/TE AVRG (ADJ) : 9F, C, 4, 0 | RF: 98-A5, VC : 1F1-10, FE: 1F1-10, TE: 1F1-10 |
| PI/TRVS PP (ORG/ADJ) : 81, 131, 78, 105 | PI ORG: 70-89, PI ADJ: 122-135, TRVS ORG: 68-114, TRVS ADJ: 55-100 |
| PIOR/CCR/TRCR : 1A, 31, 1F | No specified value given |
| FOCUS/TRK GAIN : 2E, 24 | FOCUS: 10-40, TRK: 10-40 |
| FBIAS/TRVSC/TRCR2/CFR : 2,13, 6, 60 | F.BIAS: 1D0-4F, TRVSC: 1D0-30 TRCR2, CFR: no specified value given |
| READ TOC TIME (msec) : 1283 | 2200 msec or less |
| PSP AMPLITUDE : 1666 | 1300 or above |
| 1/3 SEEK TIME | |
| F) AVE/MIN/MAX (msec) : 967, 928, 990 | AVE: 1100 msec or less, MAX: 1300 msec or less |
| R) AVE/MIN/MAX (msec) : 974, 933, 993 | AVE: 1100 msec or less, MAX: 1300 msec or less |
| 1/MAX SEEK TIME | |
| F) AVE/MIN/MAX (msec) : 1958, 1938, 1968 | AVE: 2200 msec or less, MAX: 2500 msec or less |
| R) AVE/MIN/MAX (msec) : 1915, 1909, 1935 | AVE: 2200 msec or less, MAX: 2500 msec or less |
| ERROR RATE | |
| PO MAX/AVE FRAME : 0, 0 | No specified value given |
| PO MAX/AVE NUM : 160, 3 | MAX: 1000 or less, AVE: 100 or less |
| PI1 MAX/AVE FRAME : 0, 0 | No specified value given |
| PI1 MAX/AVE NUM : 242, 17 | MAX: 1000 or less, AVE: 100 or less |
| PI2 MAX/AVE FRAME : 0, 0 | No specified value given |
| PI2 MAX/AVE NUM : 128, 2 | MAX: 1000 or less, AVE: 100 or less |
| SPIN DOWN TIME (msec) : 1342 | 2500 msec or less |
| FG LEVEL [STEP] : 82 | 100 or less |
| LOAD OUT TIME (msec) : | 3000 msec or less |

* Items are not used in the SATD-S5.

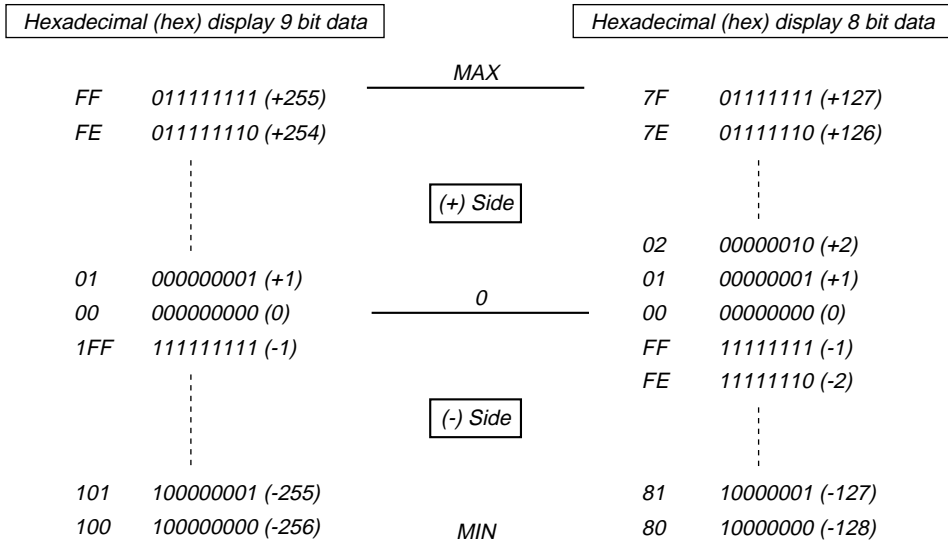
SCD-XA777ES

(2) CD (Use the test disc PATD-012 or YEDS-18)

Note: Measured values in check items are typical ones.

| Check items | Specified value |
|--|--|
| LOAD IN TIME (msec) : | 3000 msec or less |
| SPIN UP TIME (msec) : 1372 | 2500 msec or less |
| RF/VC/FE/TE AVRГ (ORG) : 98, C, 1D6, 4 | RF: 7E-9B, VC: 1F1-10, FE: 1B8-42, TE: 1BB-5C |
| RF/VC/FE/TE AVRГ (ADJ) : 9F, A, 1FF, 4 | RF: 98-A5, VC: 1F1-10, FE: 1F1-10, TE: 1F1-10 |
| PI/TRVS PP(ORG/ADJ) : 81, 131, 95, 92 | PI ORG: 70-89, PI ADJ: 122-135, TRVS ORG: 70-120, TRVS-ADJ: 70-120 |
| PIOR/CCR/TRCR : 1A, 11, 1F | No specified value given |
| FOCUS/TRK GAIN : 2E, 2D | FOCUS: 20-40, TRK: 20-40 |
| FBIAS/TRVSC/TRCR2/CFR : 0, 10, 5, A0 | F.BIAS: 1E0-30, TRVSC: 1F0-10 TRCR2, CFR: no specified value given |
| MIN JITTER AT F.BIAS : 94 | 100 or less |
| READ TOC TIME (msec) : 1410 | 2500 msec or less |
| 1/3 SEEK TIME | |
| F) AVE/MIN/MAX (msec) : 824, 804, 850 | AVE: 1000 msec or less, MAX: 1200 msec or less |
| R) AVE/MIN/MAX (msec) : 850, 833, 860 | AVE: 1000 msec or less, MAX: 1200 msec or less |
| 1/MAX SEEK TIME | |
| F) AVE/MIN/MAX (msec) : 2086, 1999, 2151 | AVE: 2300 msec or less, MAX: 2500 msec or less |
| R) AVE/MIN/MAX (msec) : 1805, 1793, 1835 | AVE: 2300 msec or less, MAX: 2500 msec or less |
| ERROR RATE | |
| C1 MAX/AVE : 3, 0 | C1 MAX: 15 or less |
| C2 MAX/AVE : 0, 0 | C2 MAX: 0 |
| HENSHIN RYOU (1/10um) : 89 | 800 or less (100 um or less) |
| SPIN DOWN TIME (msec) : 1272 | 2000 msec or less |
| FG LEVEL [STEP] : 82 | 100 or less |
| LOAD OUT TIME (msec) : | 3000 msec or less |

Note: RF, VC, FE, TE, FBIAS and TRVSC measured values are hexadecimal data with positive and negative signs. When comparing the measured value with the specified value, refer to the following.



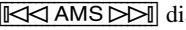

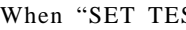
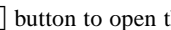



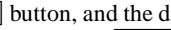
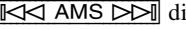
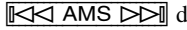
4-3. SACD (DL) DISC OPERATION CHECK

(• Perform as necessary)

The stability of the set can be checked by repeating the combined operation of focus jump (layer 0→1, layer 1→0) and access to the most inward track↔most outward track by the set number of times or until an error occurs using the dual layer HD disc, DL disc.

A set of operation including an access to the layer 0 (most inward track)→layer 0 (most outward track)→focus jump (layer 0→1)→layer 1 (most outward track)→layer 1 (most inward track)→focus jump (layer 1→0) is carried out repeatedly by the set number of times.

Checking Method:

- After setting the test mode, rotate the  dial to select "92. SET CHECK" and press the  dial to enter.
 - When "SET TEST START" is displayed, rotate the  dial clockwise by 3 clicks to display "2. F.JMP CHECK?".
 - Press the  button to open the tray, and place the DL disc.
 - Press the  dial to load the tray into the set.
 - "NOW SET UP" will be displayed and the DL disc setup will start. (It takes about ten and several seconds to set up the disc as two layers of layer 0 and layer 1 are adjusted)
 - At the completion of setup, "F.JUMP TIMES" will be displayed.
 - Rotate the  dial clockwise by 5 clicks to display "5". (If 5 sets of operation is executed *1)
 - Press the  dial, and the check will start.
 - Immediately when the check finished, "UP MAX
□□□□"→"UP AVE □□□□"→"DW MAX
□□□□"→"DW AVE □□□□"→"F.JMP OK [TIMES]" will be displayed repeatedly. (□ denotes the measured value in msec)
UP MAX: Max time required for layer 0 (most inward track)→layer 0 (most outward track)→focus jump (layer 0→1)
UP AVE: Average time required for layer 0 (most inward track)→layer 0 (most outward track)→focus jump (layer 0→1)
DW MAX: Max time required for layer 1 (most outward track)→layer 1 (most inward track)→focus jump (layer 1→0)
DW AVE: Average time required for layer 1 (most outward track)→layer 1 (most inward track)→focus jump (layer 1→0)
Specified value: 7000 msec or less (if no error occurred)
If an error occurred due to defocusing during the checking, refer to the following error list. (26 page)
 - Press the  button, and the disc will be ejected and the check will finish. Also, if the  dial is pressed in step 9, "2. F.JUMP CHK OK" will be displayed. Then, if the  dial is again pressed, "2. F.JMP CHECK" will be displayed instantaneously and a recheck is enabled from the step 5 in the same manner.
- *1 Setting arbitrary number of times instead of 5 allows the checking to be repeated by the set number of times. Also, setting 0 (zero) allows the aging check to be repeated until an error occurs.


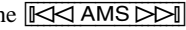




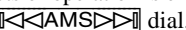
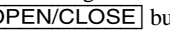

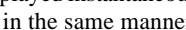
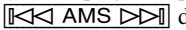
4-4. HYBRID DISC OPERATION CHECK

(• Perform as necessary)

This test checks the auto adjustment time required when the disc is switched between HD (SACD) layer and CD layer. This test is conducted to check the stability in switching from CD to SACD, or SACD to CD in the HYBRID disc.

A set of operation including CD layer stop state→HD layer auto adjustment→HD layer TOC reading→HD layer stop state→CD layer auto adjustment→CD layer TOC reading→CD layer stop state is repeated by the set number of times.

Checking Method:

- After setting the test mode, rotate the  dial to select "92. SET CHECK" and press the  dial to enter.
 - When "SET TEST START" is displayed, rotate the  dial clockwise by 4 clicks to display "3. HYB CHECK?".
 - Press the  button to open the tray, and place the HYBRID disc.
 - Press the  dial to load the tray into the set.
 - "NOW SET UP" will be displayed and the HYBRID disc setup will start. (It takes about several seconds to set up the disc *1)
 - At the completion of setup, "CHANGE TIMES?" will be displayed.
 - Rotate the  dial clockwise by 5 clicks to display "5" (if 5 sets of operation is executed *2)
 - Press the  dial, and "START" will be displayed and the check will start. During the check, the following will be displayed.
"CD→HD" display: Time from switching from CD layer to HD layer up to start of play is measured.
"HD→CD" display: Time from switching from HD layer to CD layer up to start of play is measured.
 - Immediately when the check finished, "CD MAX
□□□□"→"CD AVE □□□□"→"HD MAX
□□□□"→"HD AVE □□□□" will be displayed repeatedly. (□ denotes the measured value in msec)
Specified value: 10000 msec or less (if no error occurred)
If an error occurred due to defocusing during the checking, refer to the following error list. (26 page)
 - Press the  button, and the disc will be ejected and the check will finish. Also, if the  dial is pressed in step 9, "HYB CHK OK" will be displayed. Then, if the  dial is again pressed, "HYBRID CHECK" will be displayed instantaneously and a recheck is enabled from the step 5 in the same manner.
- *1 "NOW SET UP" display may continue for several minutes and an error may be displayed depending on the discs. In this case, press the  dial again.
- *2 Setting arbitrary number of times instead of 5 allows the checking to be repeated by the set number of times. Also, setting 0 (zero) allows the aging check to be repeated until an error occurs.

4-5 . AGING MODE

(• Perform as necessary)

4-5-1. The aging can be performed to the set in the test mode

The aging can be continued by the set number of times or until an error occurs.

In the aging, the following operations are repeated.

Table turn→Disc chucking→Disc detect→Servo on→Auto adjustment→TOC reading→Play of first track for 5 second→Play of last track for 5 second→Play of first track for 5 second→Disc unchucking

Setting Method:

1. After setting the test mode, rotate the **◀◀AMS▶▶** dial to select “94. SET AGING” and press the **◀◀AMS▶▶** dial to enter.
2. When “AGING TIMES” is displayed, rotate the **◀◀AMS▶▶** dial to set the number of aging times. (For the number of times, every 10 times can be set. Setting 0 (zero) eliminates the count limitation where the aging is repeated until an error occurs)
Note: Do not perform unmanned overnight aging..
3. Press the **◀◀AMS▶▶** dial, and “AGING START” will be displayed instantaneously, then “DISC IN & JOG ON” will be displayed and the tray will come out automatically.
4. Place a disc (CD or the SACD SL disc) on the tray. In the case of this set, the multiple discs can be placed. Even when the discs (CD or the SACD SL disc) of different types are mixed, the aging test can be performed. Use the **MULTI/2CH** key when placing a disc. When discs are placed in positions, press the **◀◀AMS▶▶** dial.
5. The aging test starts.
6. At the completion of aging by the set number of times, the tray will come out automatically and the check will stop.
Typical time required for aging About 1 hour/100 times
“AGING SUCCESS!” will be displayed if no error occurred in the aging, or the error will be displayed if an error occurred. (Refer to the following error list)

Error List

An error occurring during the check in the aging mode of the test mode is displayed automatically (scroll display) immediately when the error occurred.

< How to view the error history >

1. Select “95 DISP ERROR” with the **◀◀AMS▶▶** key, and press the **◀◀AMS▶▶** key once.
2. The error that has occurred lastly in the set and the signal status (H = 1, L = 0) at that time are displayed on the FL display by scrolling. (Types of the errors and the signal status that can be checked, are the same as the error display of the aging mode.)
3. Press the **◀◀AMS▶▶** key once again to show the error history repeatedly.
4. When the error history is displayed with scrolling once, the mode returns to the normal test mode.

4-6. SHIPPING MODE

The repaired set must be initialized, and for this purpose the set should be set to the shipping mode.

Setting Method:

1. After setting the test mode, rotate the **◀◀AMS▶▶** dial to select “8d Set Up Init” and press the **◀◀AMS▶▶** dial to enter.
2. “8D 00000000 00” will be displayed, and if the scroll starts in the left direction, the set initialization has completed
3. Press the **POWER** button to turn the power off.

Note: Take care not to leave the test disc in the set.

The following setups are established in the SHIPPING MODE

Initialization of EEPROM (IC903)

- PLAY MODE CONTINUE
- M/2CH SELECT MULTI
- DIGITAL FILTER STD
- 2ch SPK MODE 2ch DIRECT
- Mch SPK MODE Mch DIRECT
- Resetting the accumulated hours meter.

Error display is as follows.

Error name, Disc type, IN SW (Sled in switch state), FOK (FOK signal state), LOCK (LOCK signal state), From (Displayed if effective), To (Displayed if effective), Aging times (Displayed in aging mode only)

Display example

ACCESS MOVE ERROR : SACDSL : IN SW 1 FOK 0 LOCK 0 : FROM 205663 : TO 2461601 : TIMES 5

(Error name) (Disc type) (Sled in switch, FOK, LOCK signal state) (Relative address) (Relative address)(Aging times)

Display Items List:

| Display items | Description | Remarks |
|---------------|--|--|
| Error name | →Refer to the error display list | |
| IN SW | Sled in switch state when an error occurred 0: switch off Not limit in 1: switch on Limit in (Optical pick-up is at most inward track) | |
| FOK | FOK signal state when an error occurred FOK signal Is focus on? 0: FOK L (Focus off), 1: FOK H (Focus on) | |
| LOCK | LOCK signal state when an error occurred. LOCK signal Is PLL lock? 0: LOCK L Not lock, 1: LOCK H Lock | |
| From | Displayed if effective in the error item →Refer to the error display list | Disc PSN (relative address) is displayed in case of access error |
| To | Displayed if effective in the error item →Refer to the error display list | Disc PSN (relative address) is displayed in case of access error |

Error Display List:

| Error display | Error description | Main causes of errors |
|---------------------|--|--|
| DISC DETECT ERROR | Disc type error MIRR measured time is displayed in From: | Optical pick-up, RF amplifier or CD DSP IC is faulty |
| OFFSET ADJUST ERROR | Offset adjustment error | Optical pick-up, RF amplifier or CD DSP IC is faulty |
| FCS SRV ON ERROR | Focus servo error An error code is displayed in From: | From:1 means focus search failed From:2 means defocusing |
| CLV SRV ON ERROR | CLV servo error | Defocusing |
| E-F BALANCE ERROR | E-F balance adjustment error | Defocusing |
| TRK SRV ON ERROR | Tracking servo error | Tracking servo on time out Optical pick-up, RF amplifier or CD DSP IC is faulty |
| SLD SRV ON ERROR | Sled servo error | Sled servo on time out |
| FOCUS BIAS ERROR | Focus bias adjustment failed An error code is displayed in From: | Defocusing during adjustment Description of display An error code is displayed in From From:1 means retry failed 3 times From:2 means abnormal value Optical pick-up, RF amplifier or CD DSP IC is faulty |
| FCS AGC ERROR | Error at focus gain automatic adjustment | Defocusing during adjustment Optical pick-up, RF amplifier or CD DSP IC is faulty |
| TRK AGC ERROR | Error at tracking gain automatic adjustment | Defocusing during adjustment Optical pick-up, RF amplifier or CD DSP IC is faulty |
| ACCESS 1TJ ERROR | Access Error at one-track jump Effective addresses (PSN) are displayed in From: and To: | Access failed Defocusing at access, etc |
| ACCESS FINE ERROR | Access Error at fine search Effective addresses (PSN) are displayed in From: and To: | Access failed Defocusing at access, etc |
| ACCESS MOVE ERROR | Access Error at M-track MOVE Effective addresses (PSN) are displayed in From: and To: | Access failed Defocusing at access, etc |
| WHILE PLAYING ERROR | Error during disc playing | Defocusing Focusing retry failed |
| FCS JUMP ERROR | Time out error at focus jump | Defocusing Focusing retry failed |

System errors are as follows.

Note: This error is not saved in the set.

| Display | Description |
|----------------|---|
| Toc Error * | Error during the time from auto adjustment to TOC reading, Different type of disc (Such as a DVD disc), Disc is dirty |
| Toc Error **** | Illegal SACD (Such as a pirated version) |
| Read Error | Music data read error (Error during disc playing) |

4-7. WAVEFORMS CHECK

This set performs automatic adjustment for each disc, and therefore the set need not be adjusted when parts are replaced, but it requires checking following the description in this section, 4-1. IC AND FLUORESCENT DISPLAY TUBE CHECK and 4-2. AUTO CHECK.

For the check, the test mode is used. Wrong setting causes a trouble, thus requiring extreme care.

BU Electrical Adjustment Mode

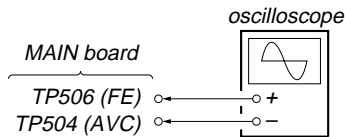
The BU electrical adjustment mode is used to check the S curve waveform, traverse waveform and RF waveform. After a disc is placed on the tray, each time the **AMS** dial is pressed, the check mode is switched in order for S curve waveform → traverse waveform → RF waveform.

Setting Method:

After setting the test mode, rotate the **AMS** dial to select "9C BU DENCHO" and press the **AMS** dial to enter. "BU MEASURE" will be displayed if the BU electrical adjustment mode becomes active.

S Curve Check

Connection:



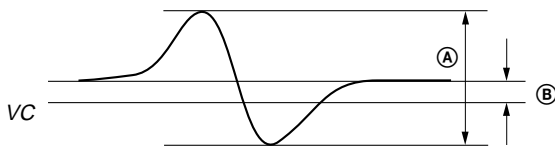
Checking Method:

1. After setting the BU electrical adjustment, place the test disc (PATD-012 or SATD-S5 or SATD-S4) on the tray and close the tray, then press the **AMS** dial.
2. At the completion of disc type check, "CD DETECT" will be displayed (for PATD-012 or YEDS-18).
Note: For the SATD-S5 or SATD-S4, "SACD DETECT" is displayed.
3. Press again the **AMS** dial, and the S curve waveform check mode will become active and "S-J1 MODE" will be displayed.
4. Connect an oscilloscope to the TP506 (FE) and TP504 (AVC) on the MAIN board.
5. Check that the level **(A)** and **(B)** of waveform on the oscilloscope satisfy the specification.

Specified Value:

| Disc | (A) | (B) |
|---------------------|-----------------|----------------|
| SATD-S5 or SATD-S4 | 0.7 to 1.7 Vp-p | - 0.1 to +0.1V |
| PATD-012 or YEDS-18 | | |

S curve waveform

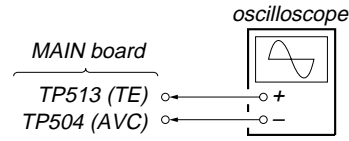


Note: For easier observation of this waveform, extend the sweep time and raise the brightness.

Checking and Connecting Location : See page 30.

Traverse Check

Connection:



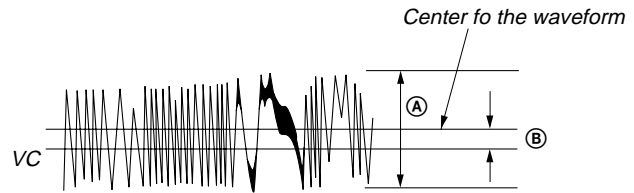
Checking Method:

1. Under the condition of S curve waveform check mode in step 5, press the **AMS** dial.
2. After "WAIT" is displayed, the traverse waveform check mode will become active and "TRAVERSE MODE" will be displayed.
3. Connect an oscilloscope to the TP513 (TE) and TP504 (AVC) on the MAIN board.
4. Check that the level **(A)** and **(B)** of waveform on the oscilloscope satisfy the specification.

Specified Value:

| Disc | (A) | (B) |
|---------------------|-----------------|----------------|
| SATD-S5 or SATD-S4 | 0.9 to 1.5 Vp-p | - 0.1 to +0.1V |
| PATD-012 or YEDS-18 | | |

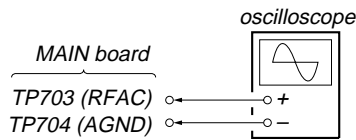
Traverse waveform



Checking and Connecting Location : See page 30.

RF Level Check

Connection:



Checking Method:

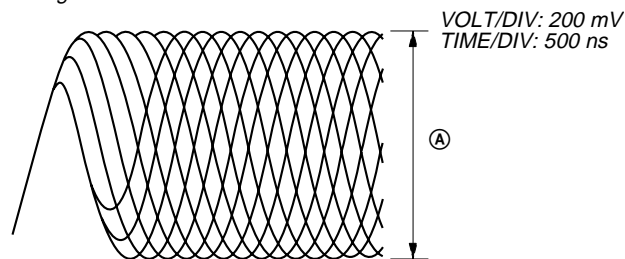
- Under the condition of traverse waveform check mode in step 4, press the **[[<<AMS>>]]** dial.
- Connect an oscilloscope to the TP703 (RFAC) and TP704 (AGND) on the MAIN board.
- After "WAIT" is displayed, the RF waveform check mode will become active and "PLAY 5th" will be displayed, and the 5th music on the disc will be played.
- Check that the RF waveform is clear and the level satisfies the specification.
- Press the **[[<<AMS>>]]** dial, and "GAISHU" will be displayed and the outward track of the disc will be played.
- Check that the RF waveform is clear and the level satisfies the specification.
- Press the **[[<<AMS>>]]** dial, and "NAISHU" will be displayed and the inward track of the disc will be played.
- Check that the RF waveform is clear and the level satisfies the specification.
- After checking, press the **[[<<AMS>>]]** dial, and the test is over when "BU MEASURE" is displayed.
- Press the **[OPEN/CLOSE]** button to open the tray, and remove the test disc.
- Using each type of disc, repeat from step 1 of S curve waveform check up to step 10 of RF level check.
- When the check is over, press the **[POWER]** button to turn the power off.

Note: Take care not to leave the test disc in the set.

Specified Value:

| Disc | (A) |
|---------------------|-----------------|
| SATD-S5 or SATD-S4 | 0.9 to 1.5 Vp-p |
| PATD-012 or YEDS-18 | |

RF signal waveform

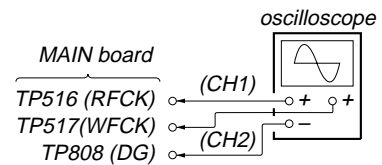


Note: Clear RF waveform refers to the waveform where \diamond shapes should be distinctively observed in the center.

Checking and Connecting Location : See page 30.

CLV Jitter Check (CD only)

Connection:



Checking Method:

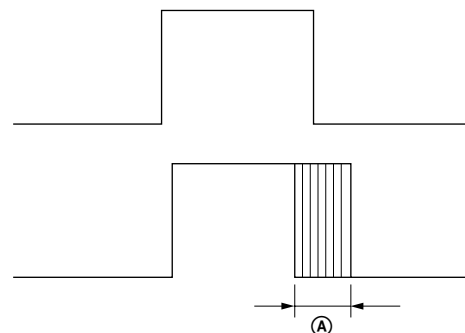
- Set the test mode.
- Connect an oscilloscope to the TP516 (RFCK) (CH1), TP517 (WFCK) (CH2) and TP808 (DG) (GND) on the MAIN board.
- Place the test disc PATD-012 or YEDS-18 on the tray, and close the tray.
- Rotate the **[[<<AMS>>]]** dial to select "61 DISC DETECT", and press the **[[<<AMS>>]]** dial to enter. Then, the disc type will be judged.
- Check that the disc type has been judged. (For the PATD-012, "DSKMOD CD" will be displayed. Refer to the test mode, DISC DETECT command (page 18))
- Rotate the **[[<<AMS>>]]** dial to select "86 ALL SRV ON", and press the **[[<<AMS>>]]** dial. Then, the disc will rotate, automatic adjustment will be carried out, and all servos will be turned on.
- Rotate the **[[<<AMS>>]]** dial to select "07 DSP MON3", and press the **[[<<AMS>>]]** dial to enter.
- Check that the value (A) of waveform on the oscilloscope satisfies the specification.
- Rotate the **[[<<AMS>>]]** dial to select "19 ALL SRV OFF", and press the **[[<<AMS>>]]** dial. Then, all servos will be turned off and the disc rotation will stop.
- Press the **[OPEN/CLOSE]** button to open the tray, and remove the test disc.
- Press the **[POWER]** button to turn the power off.

Note: Take care not to leave the test disc in the set.

Specified Value:

| Disc | (A) |
|---------------------|----------------------|
| PATD-012 or YEDS-18 | 50 μ sec or less |

CLV jitter waveform

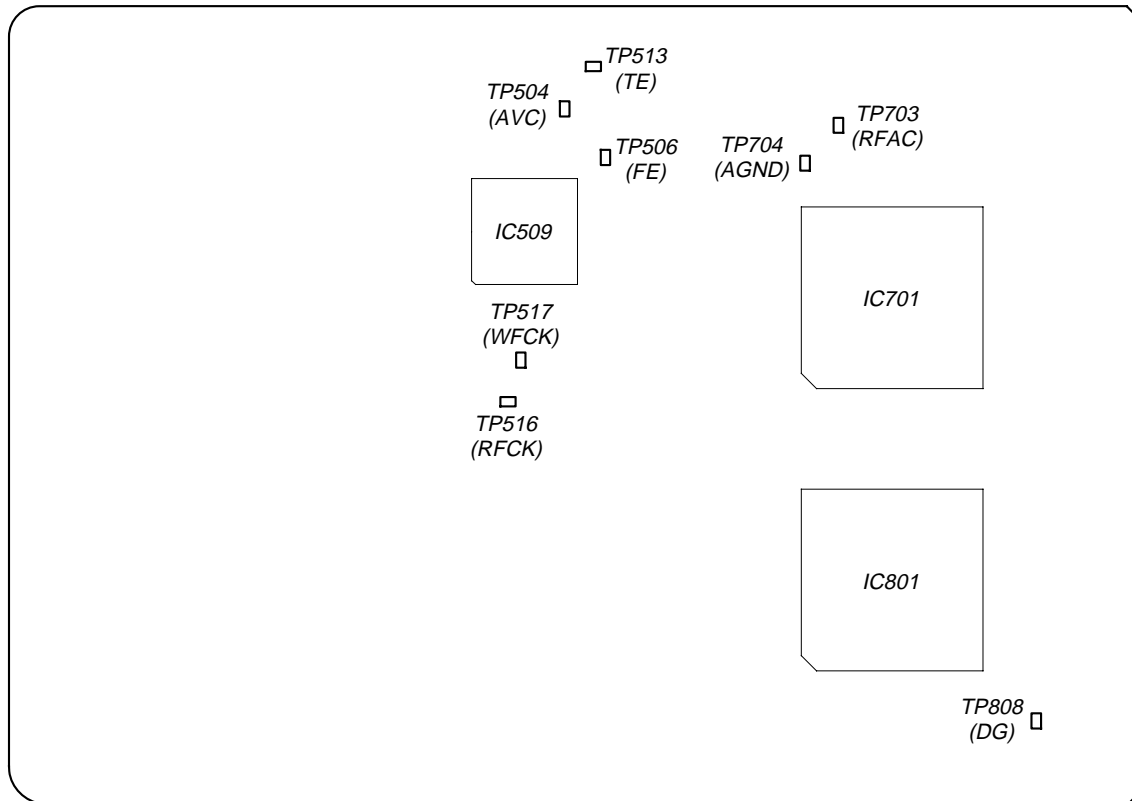


Checking and Connecting Location : See page 30.

SCD-XA777ES

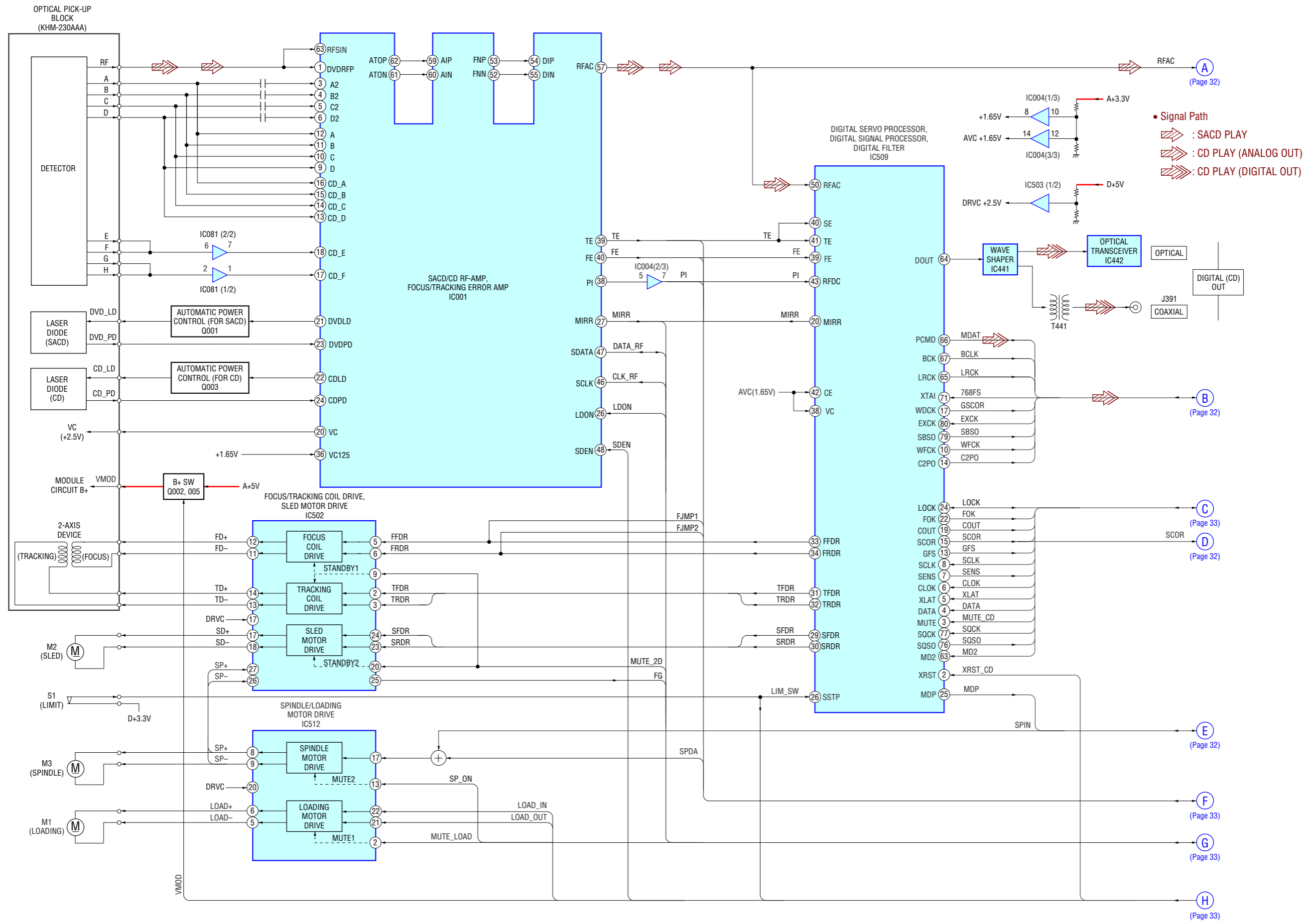
Checking and Connecting Location:

– MAIN Board (Component Side) –

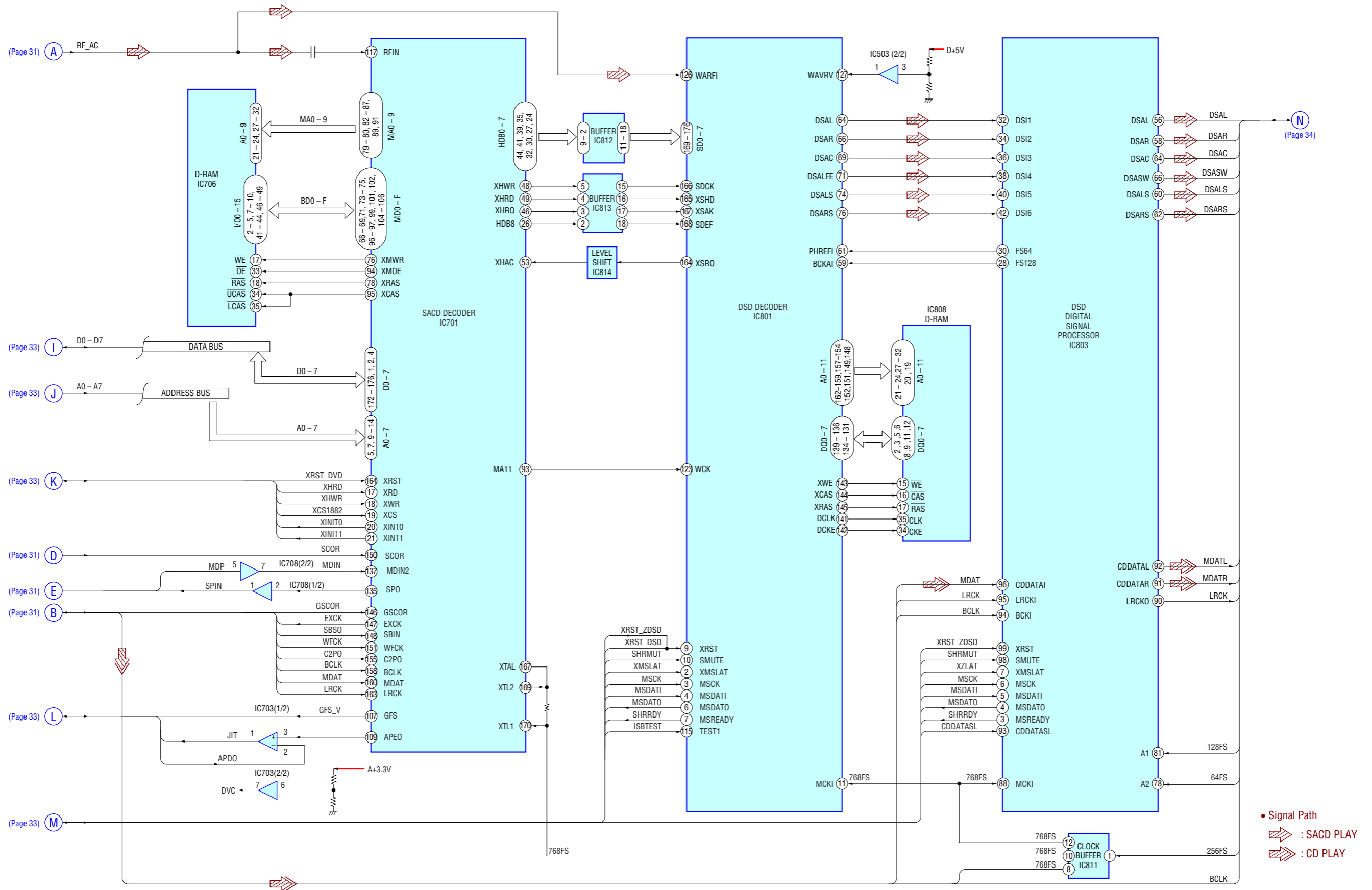


SECTION 5
DIAGRAMS

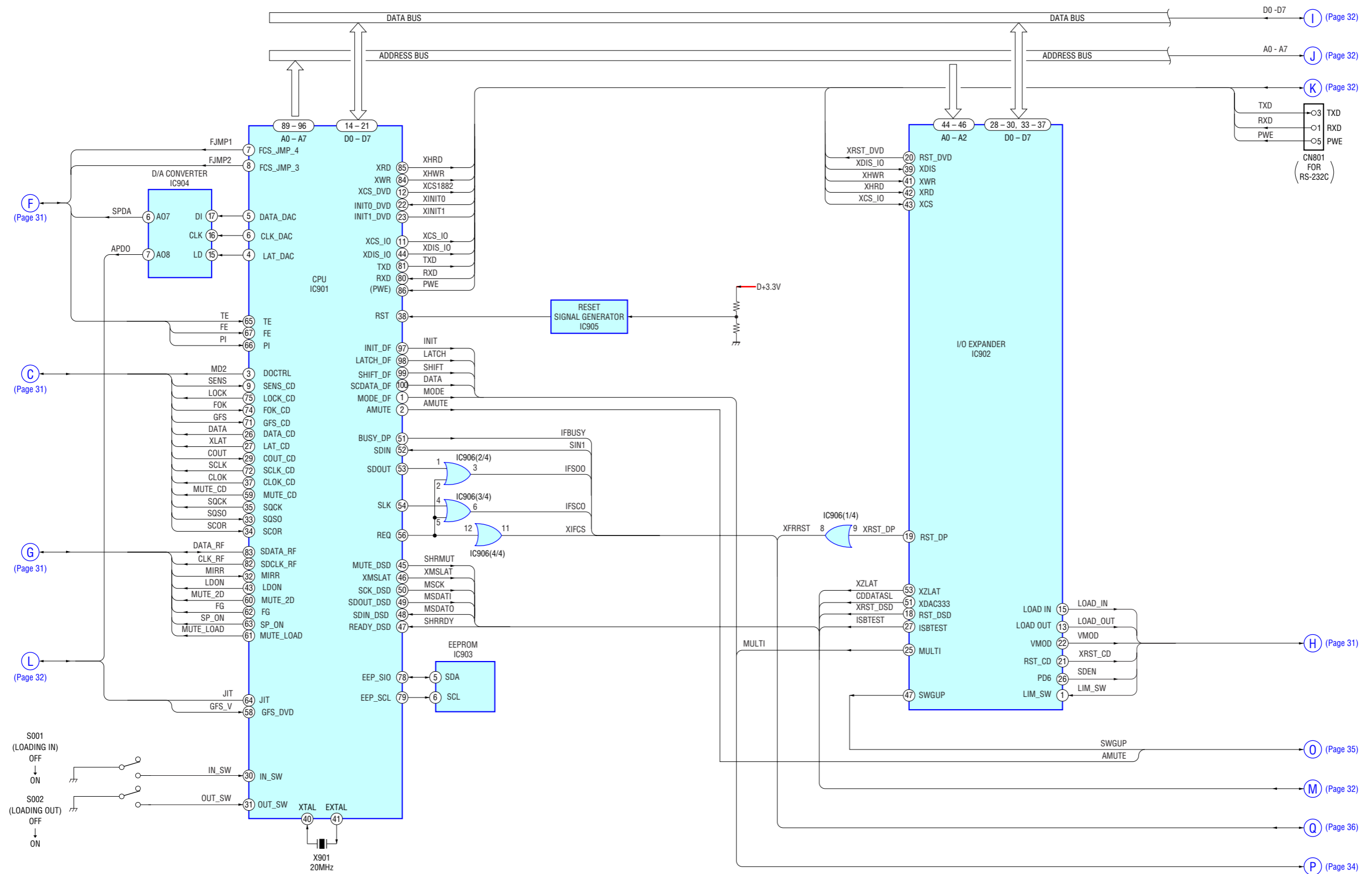
5-1. BLOCK DIAGRAM – RF/SERVO Section –



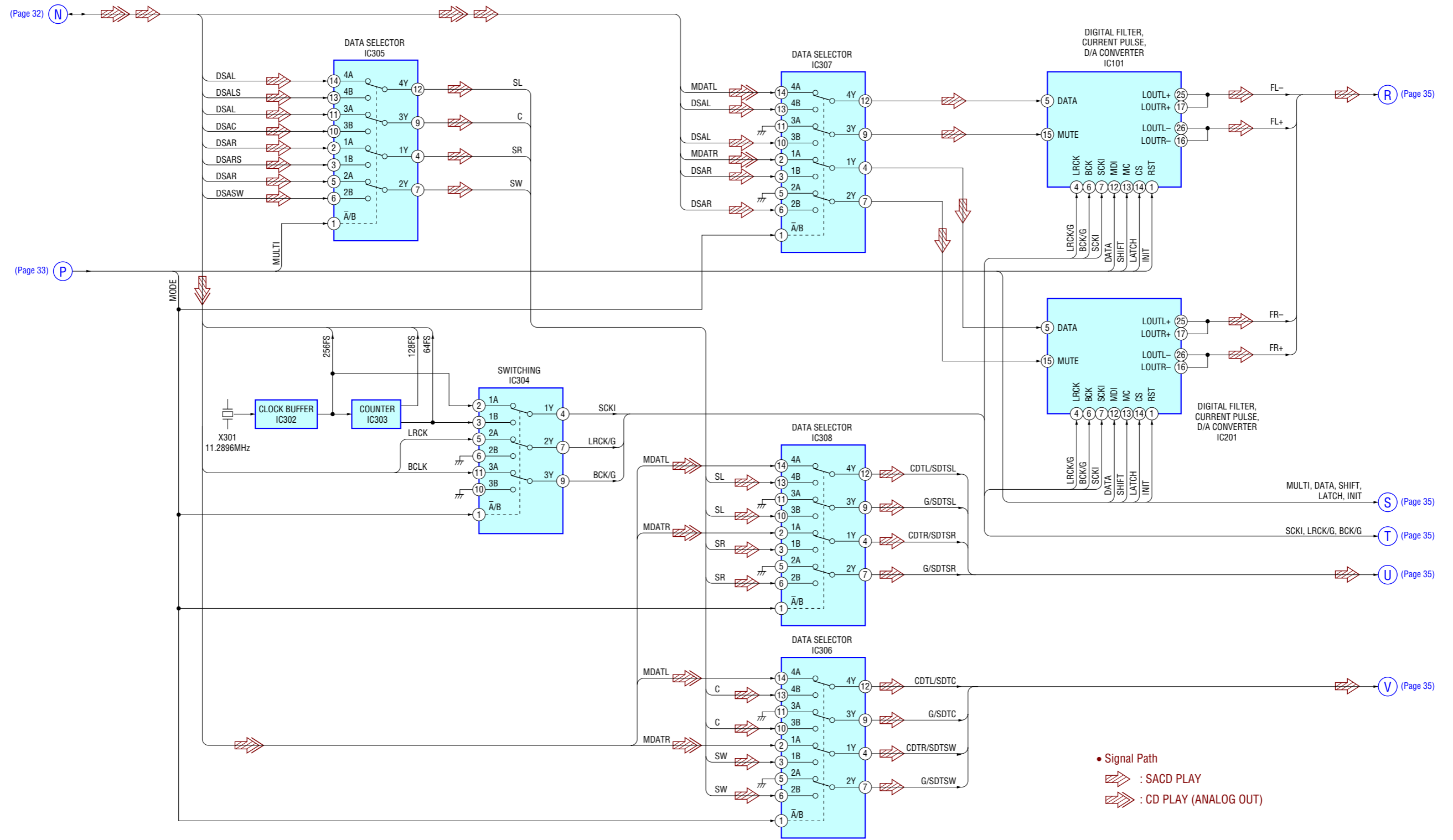
5-2. BLOCK DIAGRAM – MAIN Section (1/2) –



5-3. BLOCK DIAGRAM – MAIN Section (2/2) –



5-4. BLOCK DIAGRAM – AUDIO Section (1/2) –



(Page 32) **N**

(Page 33) **P**

R (Page 35)

S (Page 35)

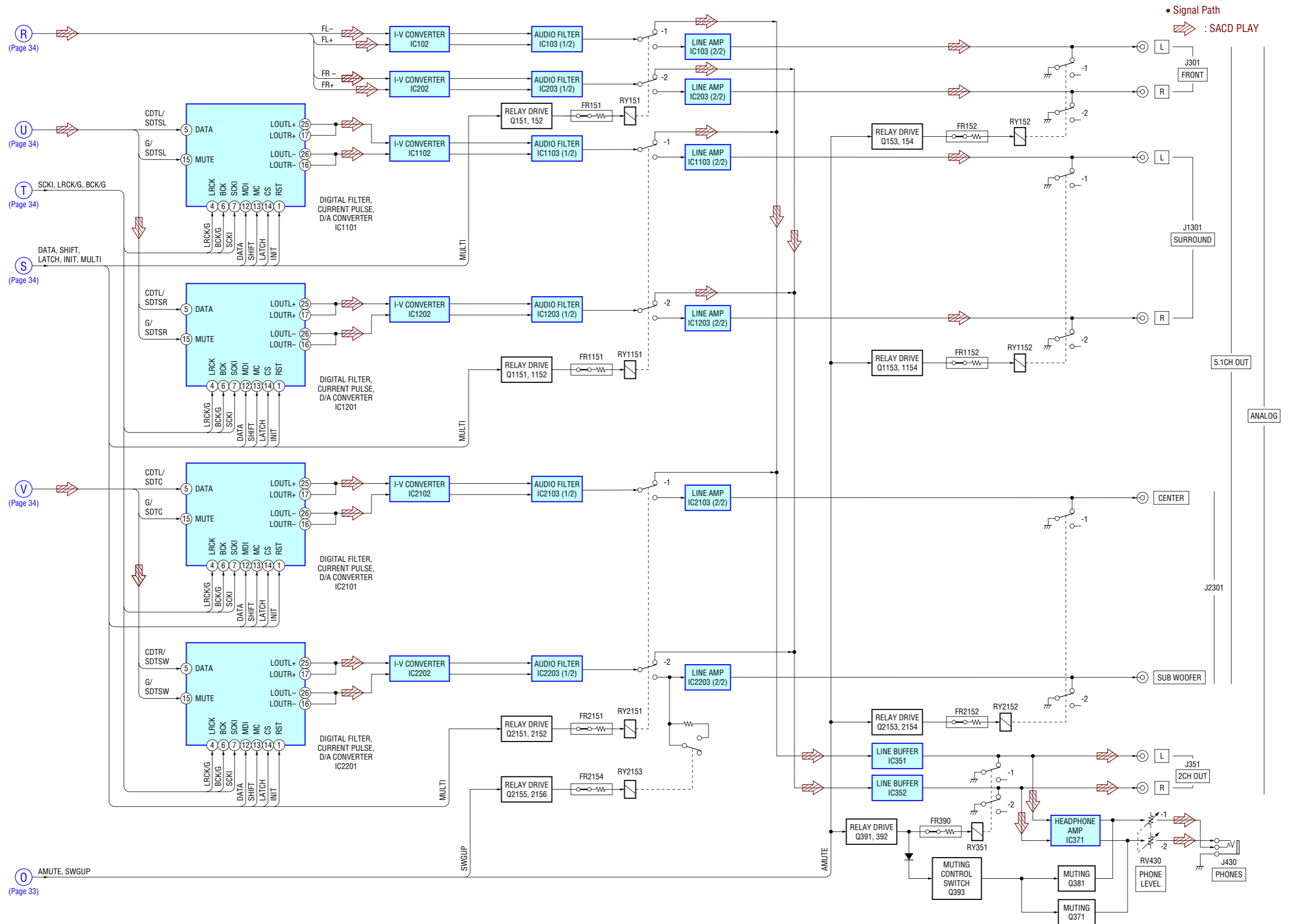
T (Page 35)

U (Page 35)

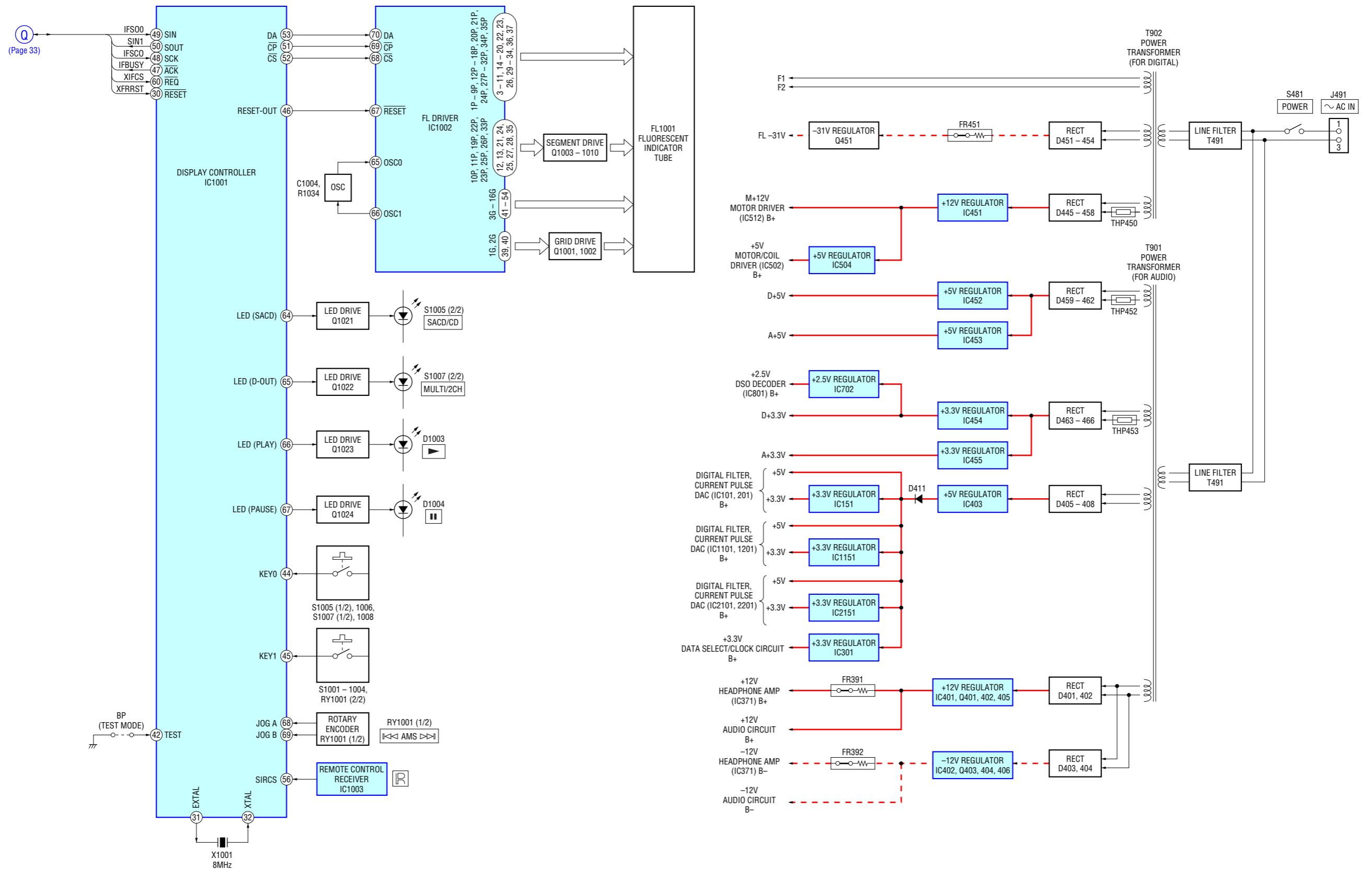
V (Page 35)

• Signal Path
 [Red hatched arrow] : SCD PLAY
 [Blue hatched arrow] : CD PLAY (ANALOG OUT)

5-5. BLOCK DIAGRAM – AUDIO Section (2/2) –



5-6. BLOCK DIAGRAM – DISPLAY/POWER SUPPLY Section –



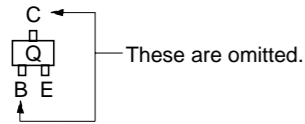
5-7. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

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

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

- Main board is multi-layer printed board. However, the patterns of intermediate-layer have not been included in diagram.
- Indication of transistor



Note on Schematic Diagram:

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

Note:

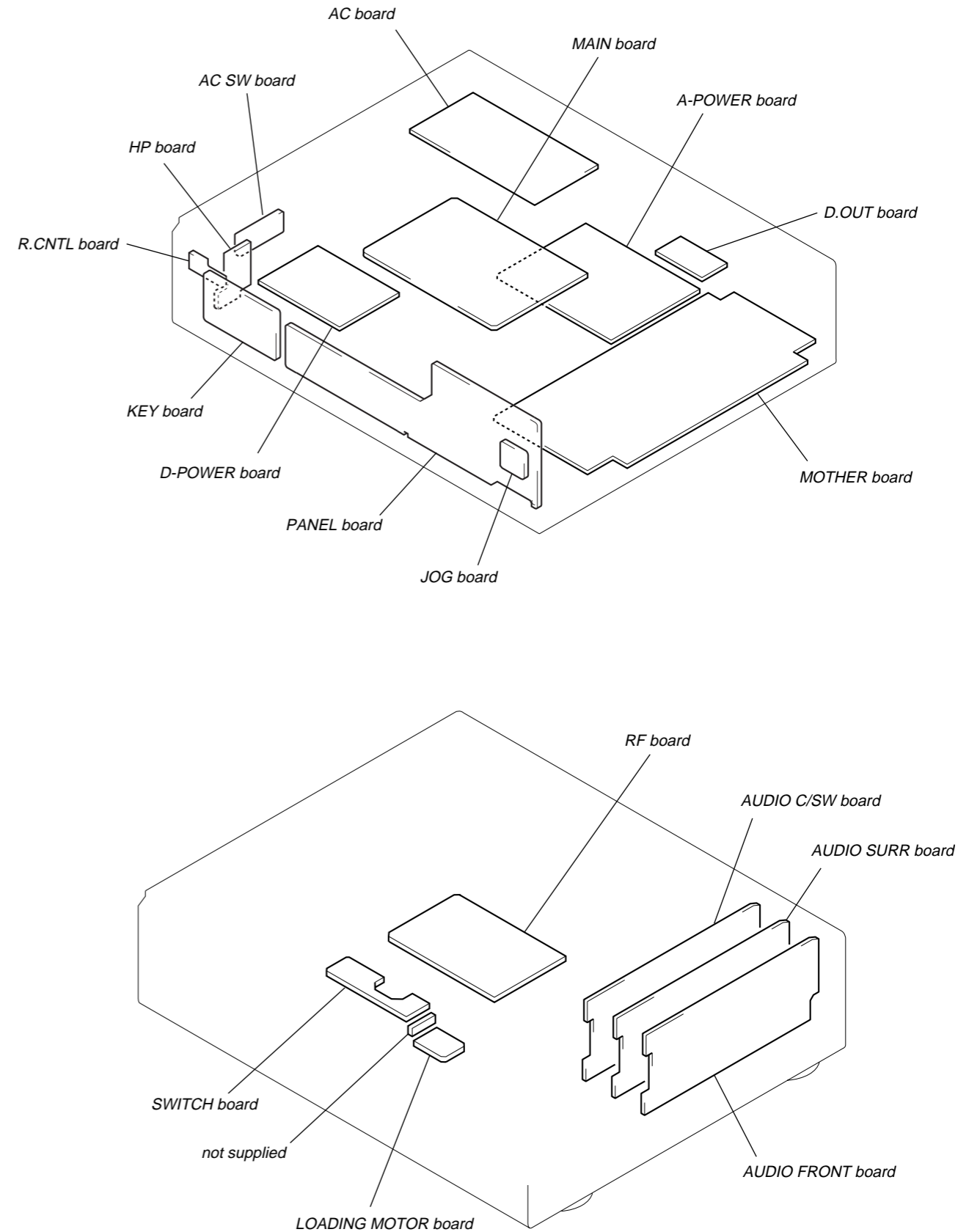
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note:

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

- : B+ Line.
- : B- Line.
- Voltages and waveforms are red with respect to ground under no-signal conditions.
- no mark : CD PLAY (ANALOG OUT)
- () : SACD PLAY
- << >> : CD PLAY (DIGITAL OUT)
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- : SACD PLAY
- : CD PLAY (ANALOG OUT)
- : CD PLAY (DIGITAL OUT)

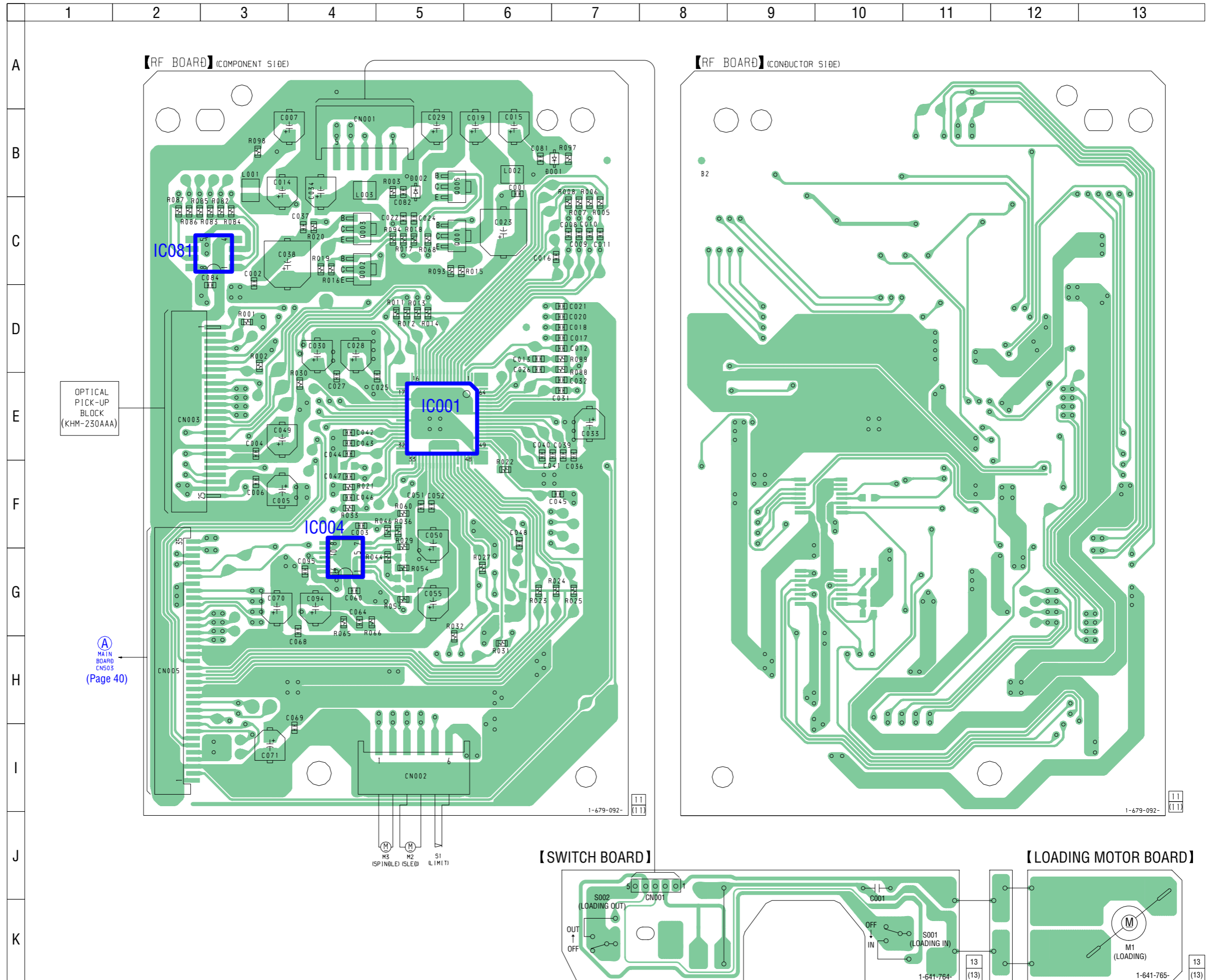
• Circuit Boards Location



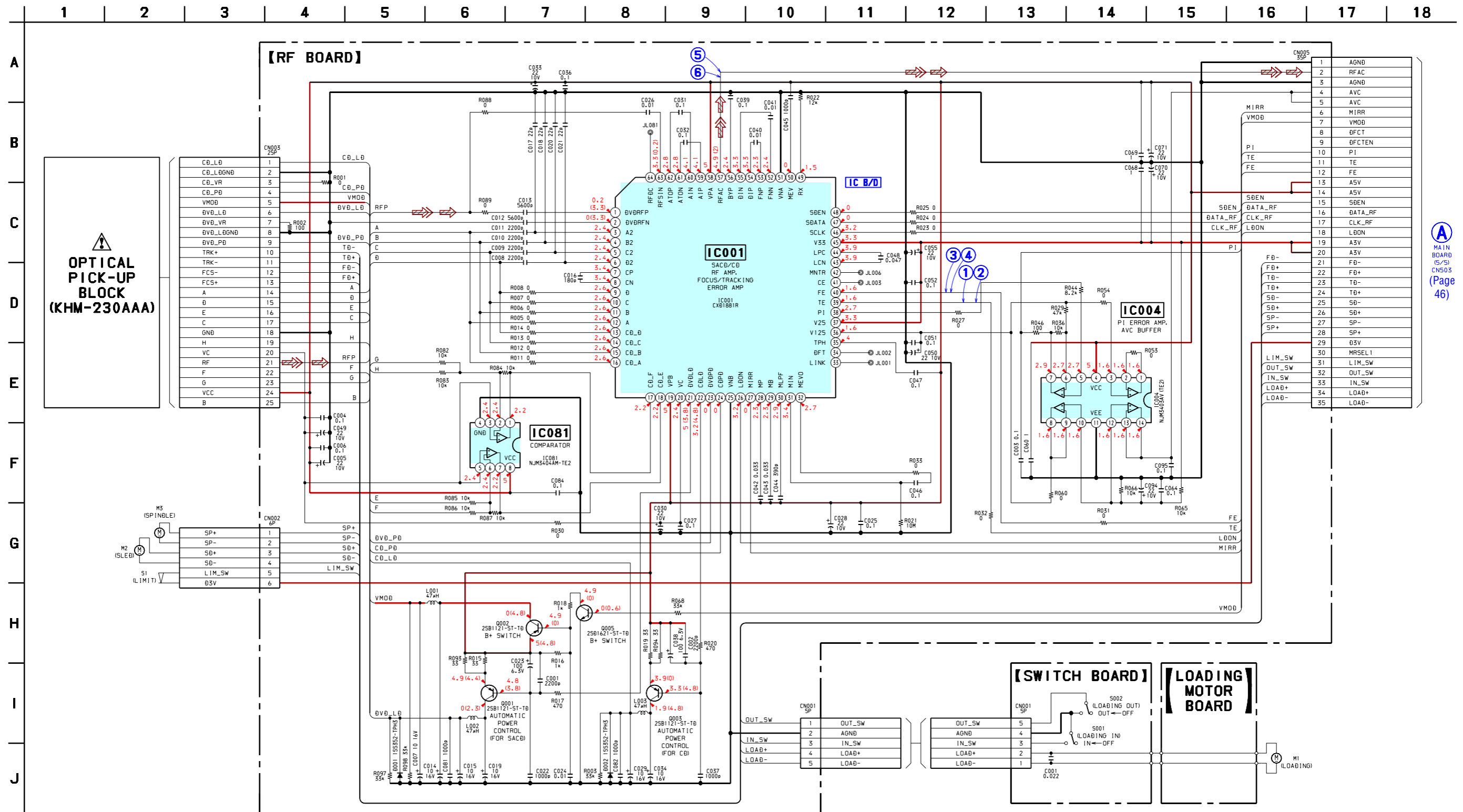
5-8. PRINTED WIRING BOARDS – LOADING MOTOR/RF/SWITCH Boards – • See page 37 for Circuit Boards Location.

• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D001 | B-7 |
| D002 | B-5 |
| IC001 | E-5 |
| IC004 | G-4 |
| IC081 | C-3 |
| Q001 | C-5 |
| Q002 | C-4 |
| Q003 | C-4 |
| Q005 | B-5 |



5-9. SCHEMATIC DIAGRAM – LOADING MOTOR/RF/SWITCH Boards – • See page 68 for Waveforms. • See page 70 for IC Block Diagram.



MAIN BOARD IS/S1 CN503 (Page 46)

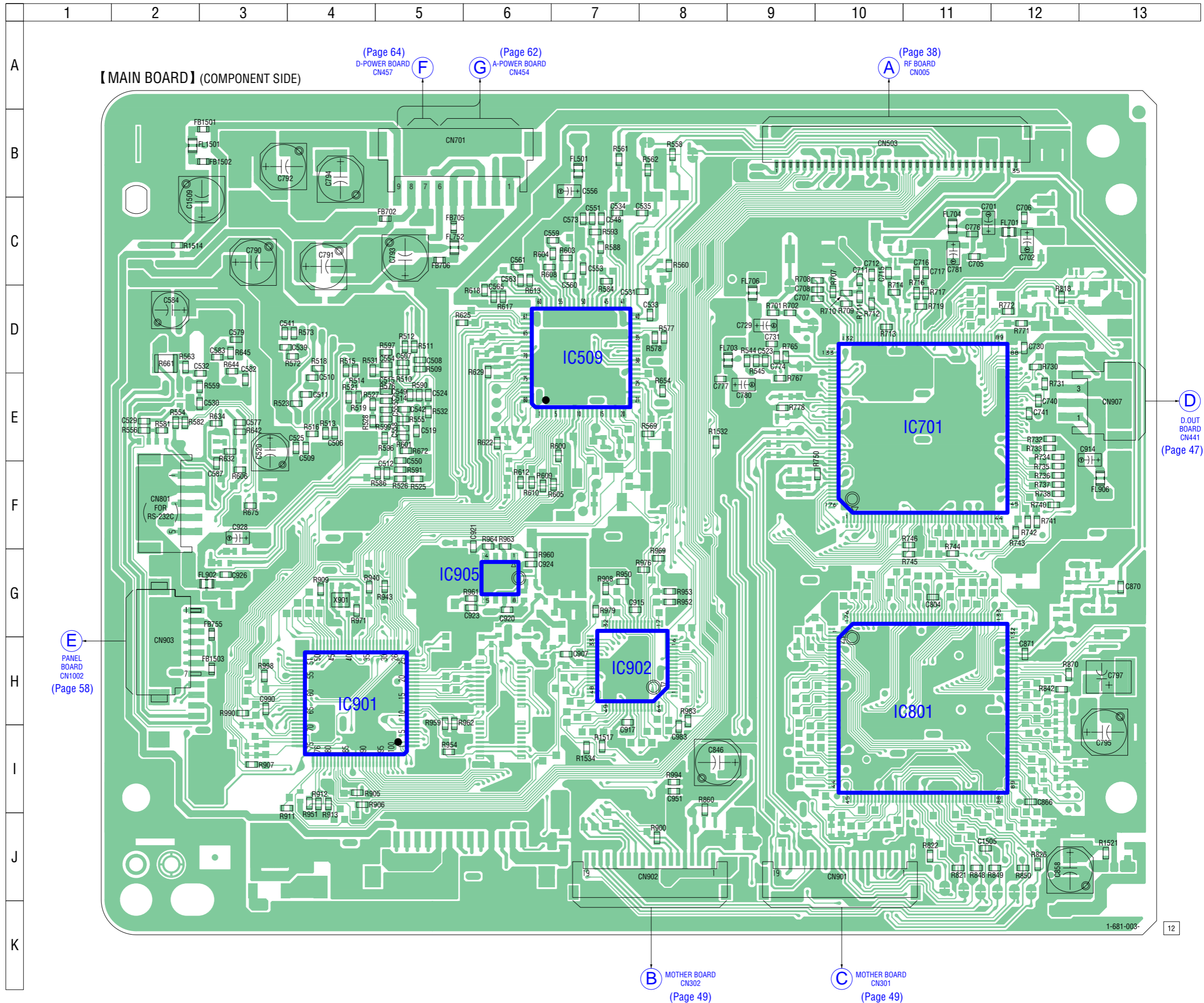
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

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

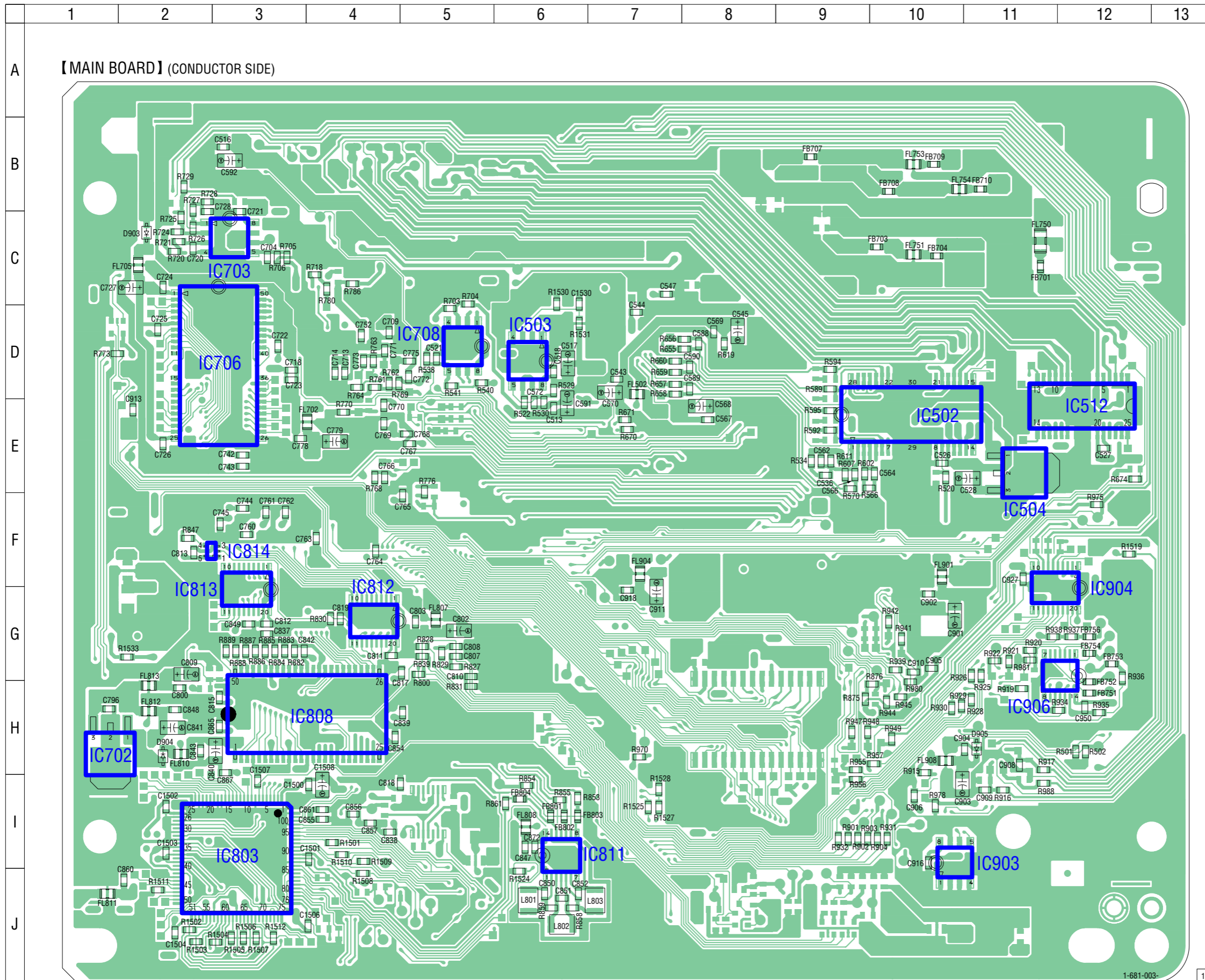
5-10. PRINTED WIRING BOARD – MAIN Board (Component Side) – • See page 37 for Circuit Boards Location.

• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| IC509 | D-7 |
| IC701 | E-11 |
| IC801 | H-11 |
| IC901 | H-4 |
| IC902 | H-7 |
| IC905 | G-6 |



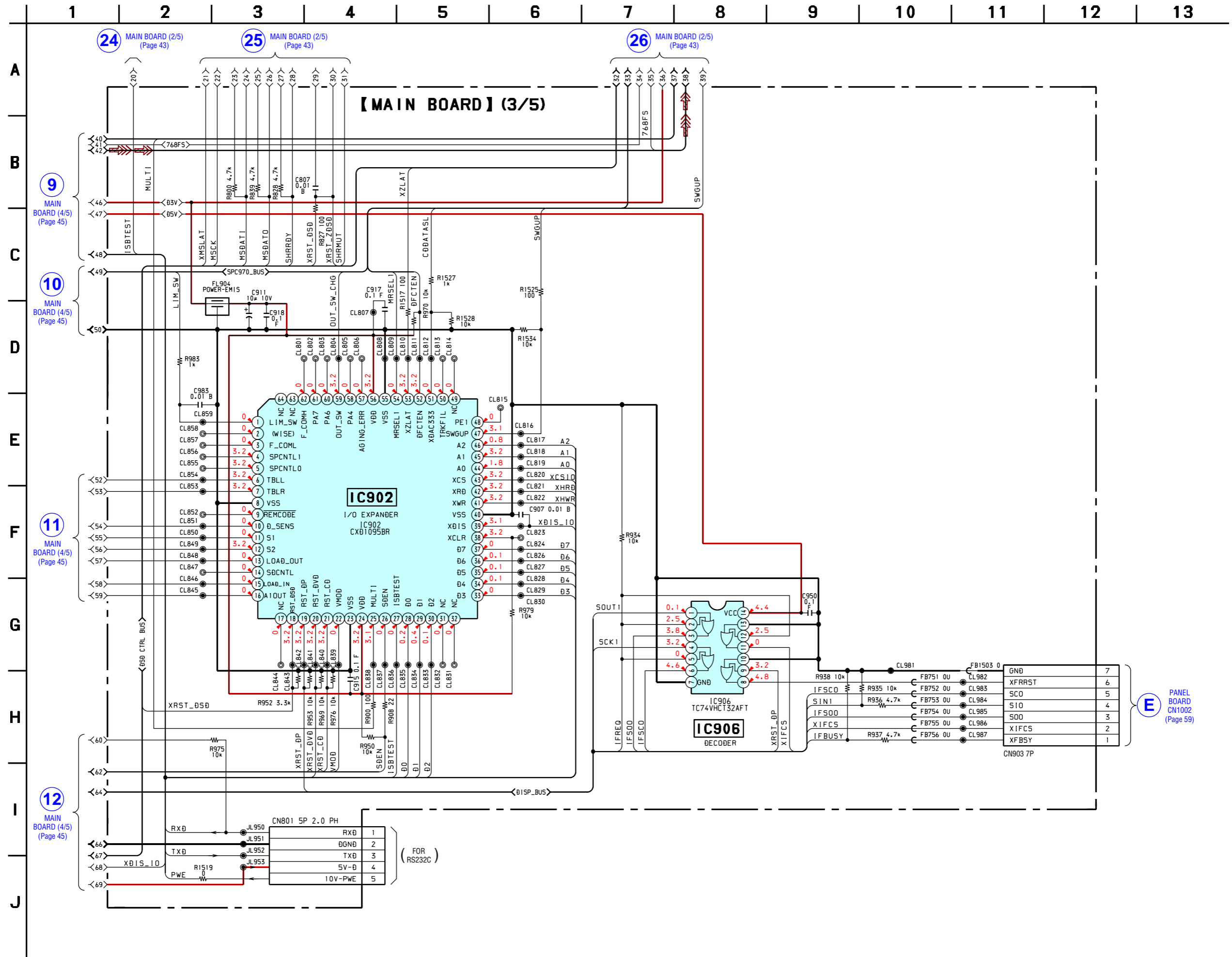
5-11. PRINTED WIRING BOARD – MAIN Board (Conductor Side) – • See page 37 for Circuit Boards Location.



• Semiconductor Location

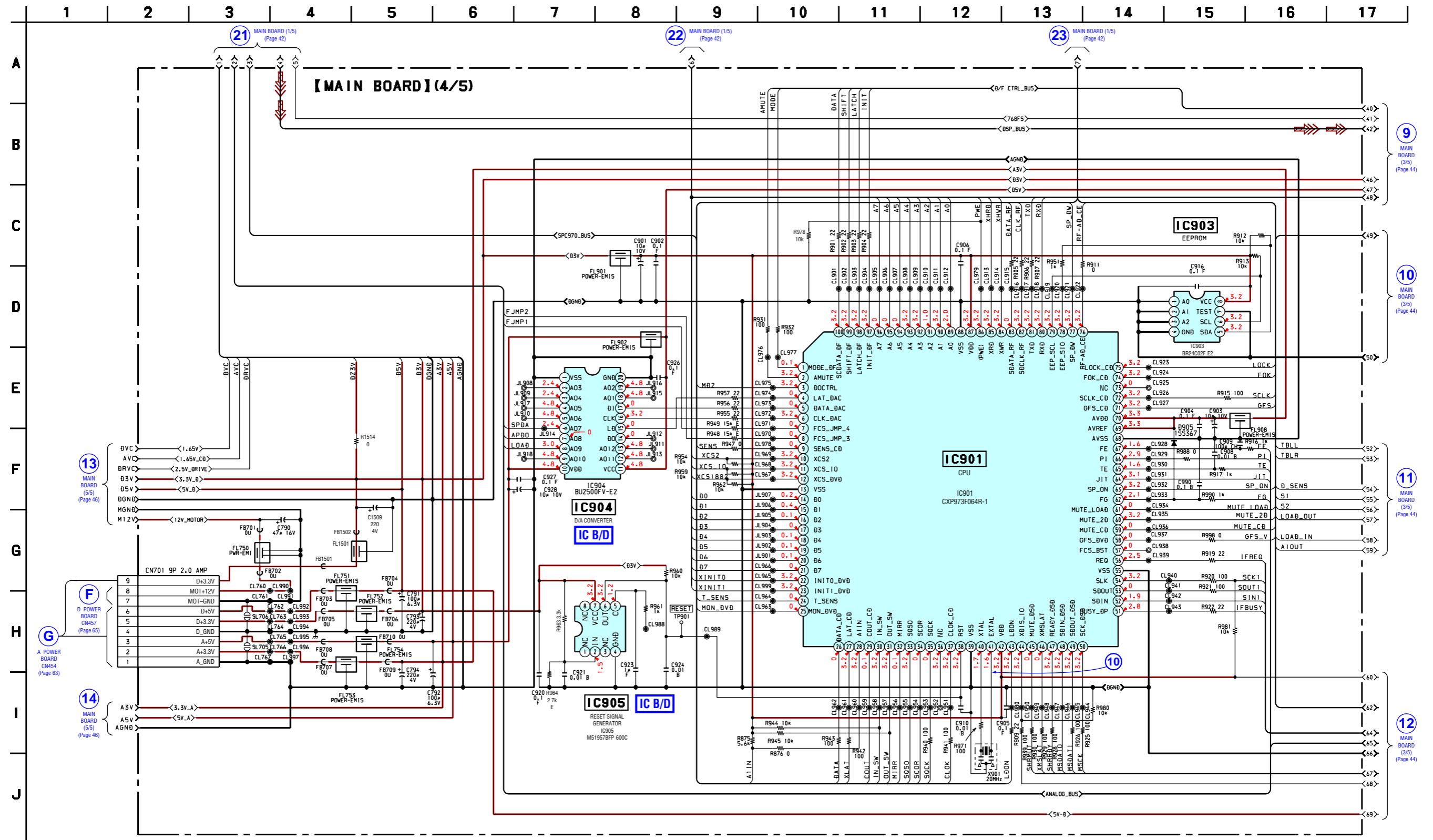
| Ref. No. | Location |
|----------|----------|
| D903 | C-2 |
| D904 | H-2 |
| D905 | H-11 |
| IC502 | E-10 |
| IC503 | D-6 |
| IC504 | E-11 |
| IC512 | E-12 |
| IC702 | H-1 |
| IC703 | C-3 |
| IC706 | D-3 |
| IC708 | D-5 |
| IC803 | I-3 |
| IC808 | H-4 |
| IC811 | I-6 |
| IC812 | G-4 |
| IC813 | G-3 |
| IC814 | F-2 |
| IC903 | I-10 |
| IC904 | G-11 |
| IC906 | G-12 |

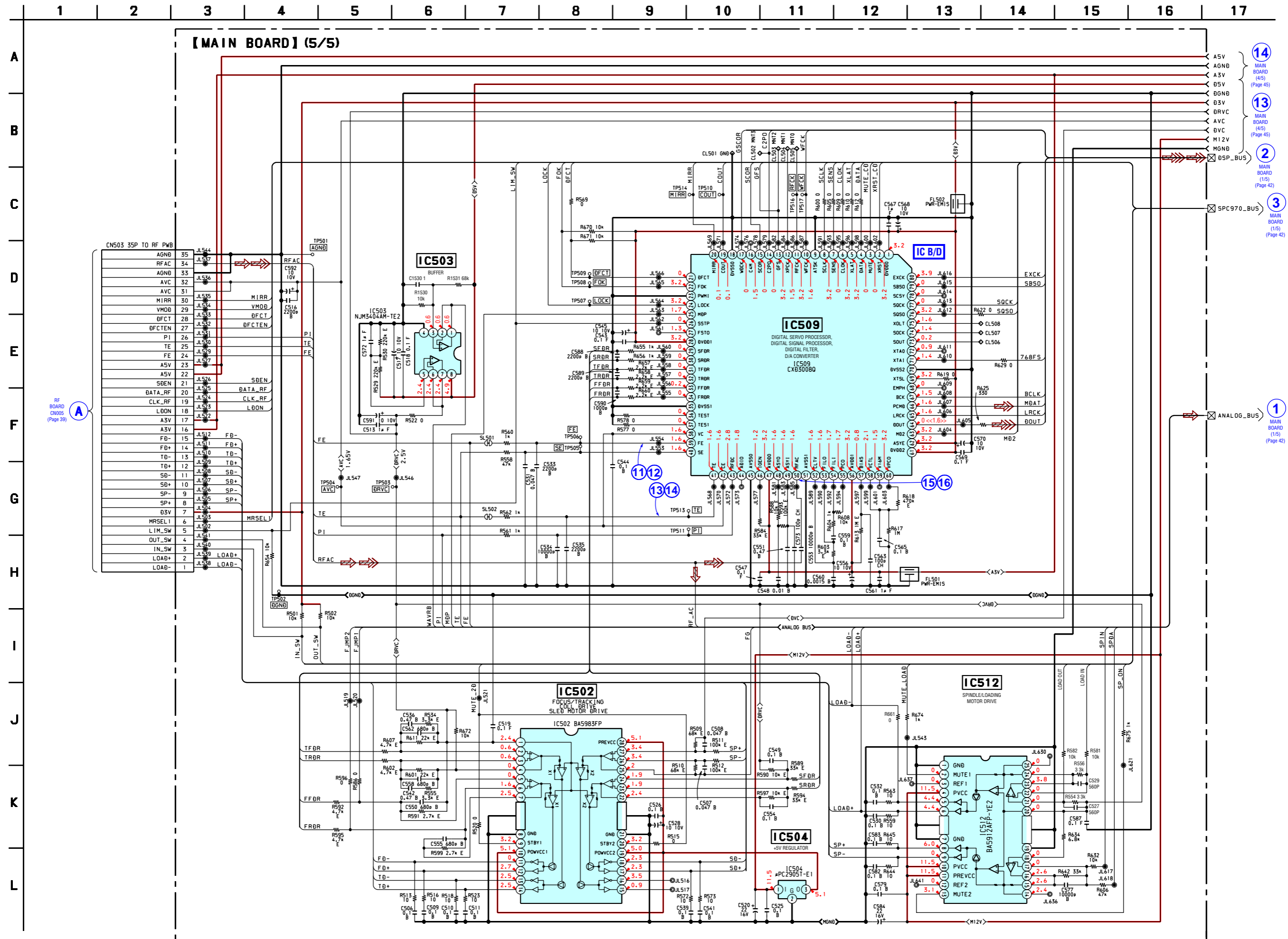
5-14. SCHEMATIC DIAGRAM – MAIN Board (3/5) –



E PANEL BOARD CN1002 (Page 59)

5-15. SCHEMATIC DIAGRAM – MAIN Board (4/5) – • See page 68 for Waveform. • See page 70 for IC Block Diagrams.



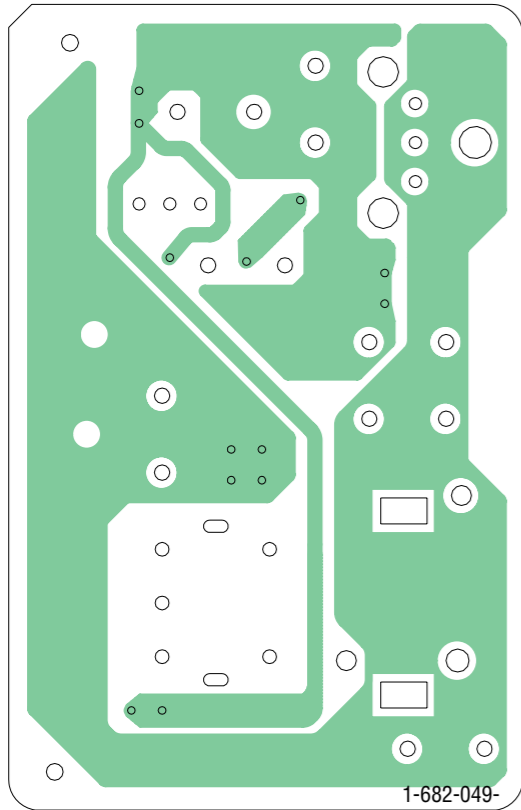


14 MAIN BOARD (4/5) (Page 45)
13 MAIN BOARD (4/5) (Page 45)
2 MAIN BOARD (1/5) (Page 42)
3 MAIN BOARD (1/5) (Page 42)

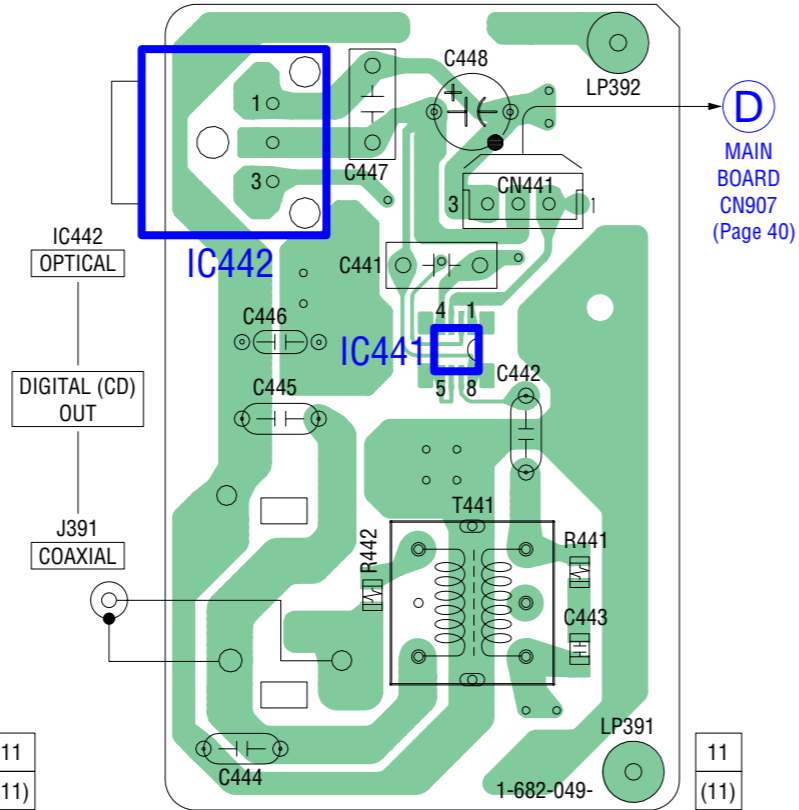
1 MAIN BOARD (1/5) (Page 42)

5-17. PRINTED WIRING BOARD – D.OUT Board – • See page 37 for Circuit Boards Location.

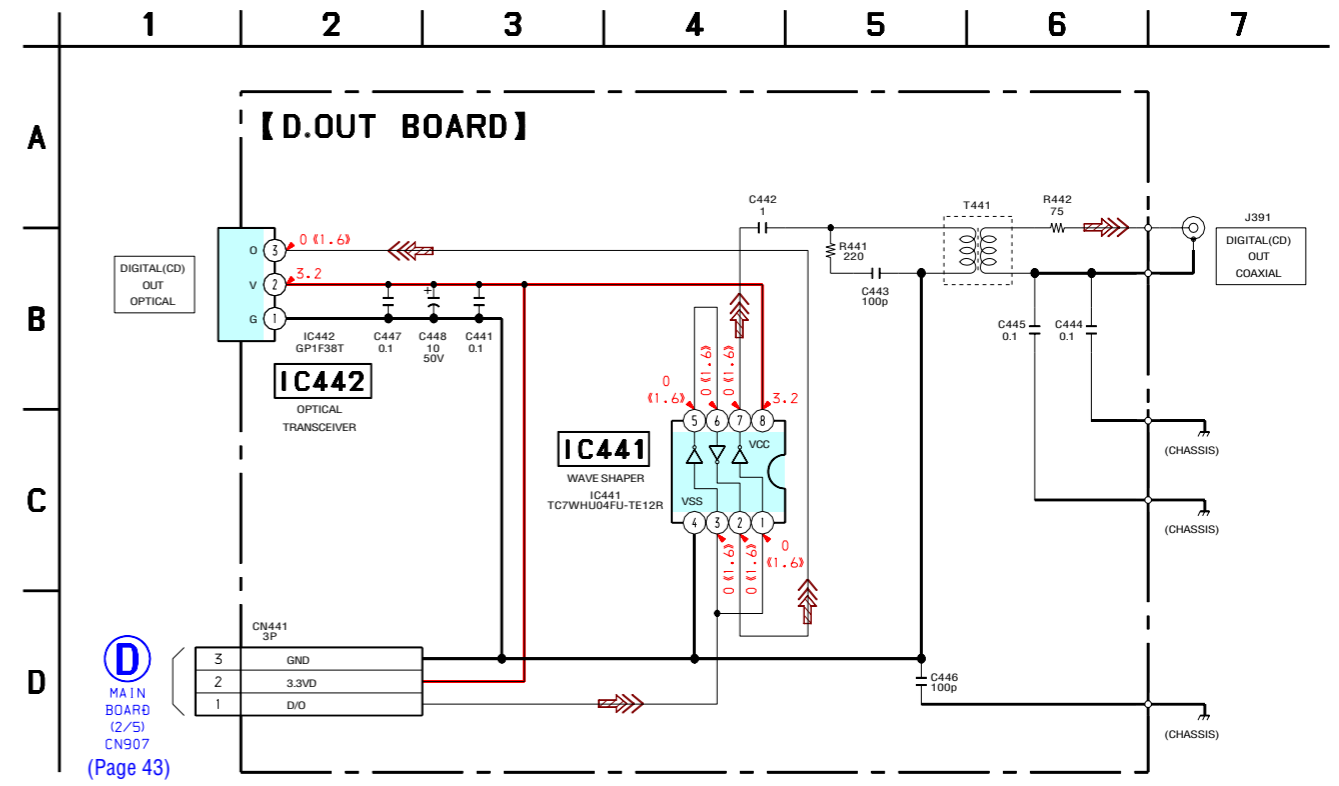
【D.OUT BOARD】(COMPONENT SIDE)



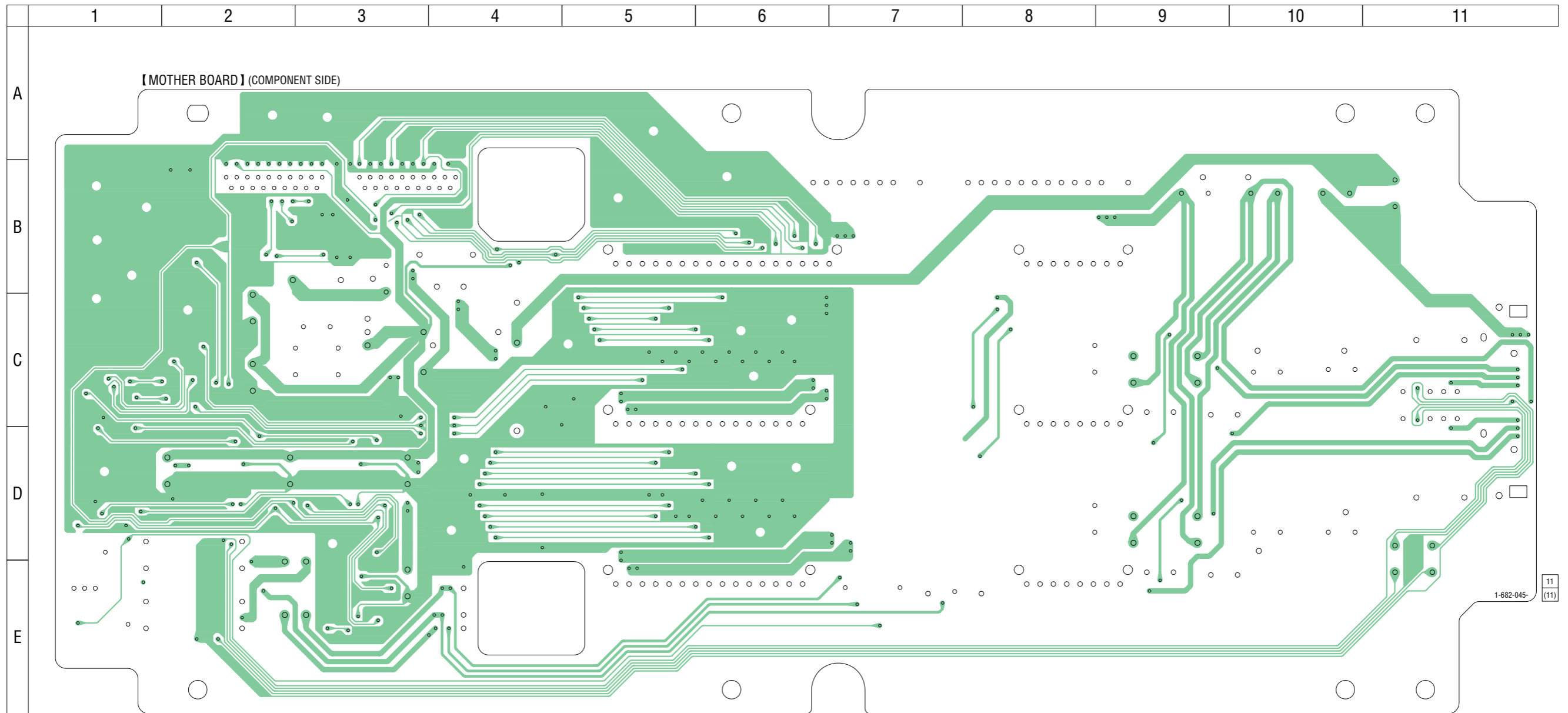
【D.OUT BOARD】(CONDUCTOR SIDE)



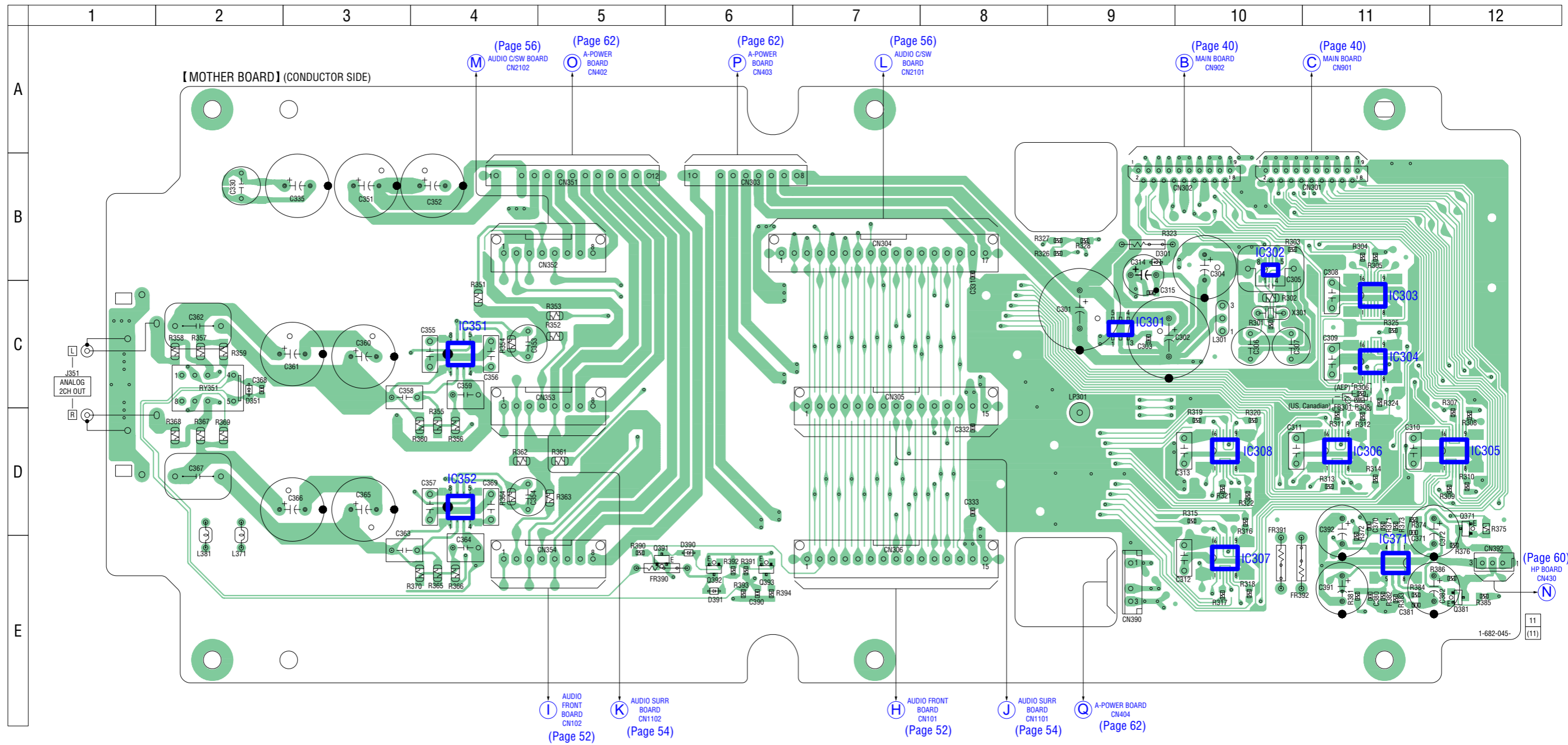
5-18. SCHEMATIC DIAGRAM – D.OUT Board –



5-19. PRINTED WIRING BOARD – MOTHER Board (Component Side) – • See page 37 for Circuit Boards Location.

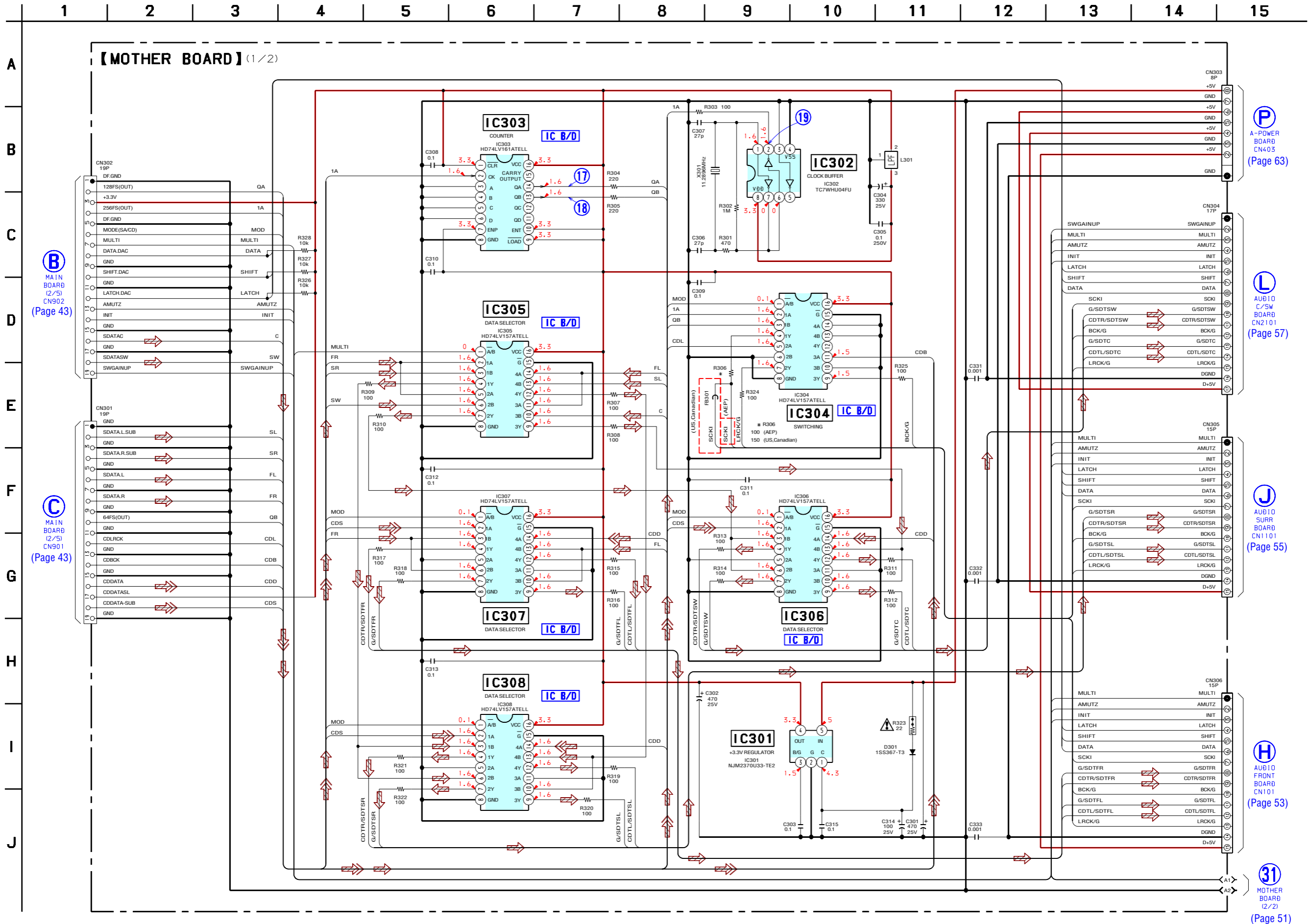


5-20. PRINTED WIRING BOARD – MOTHER Board (Conductor Side) – • See page 37 for Circuit Boards Location.



• Semiconductor Location

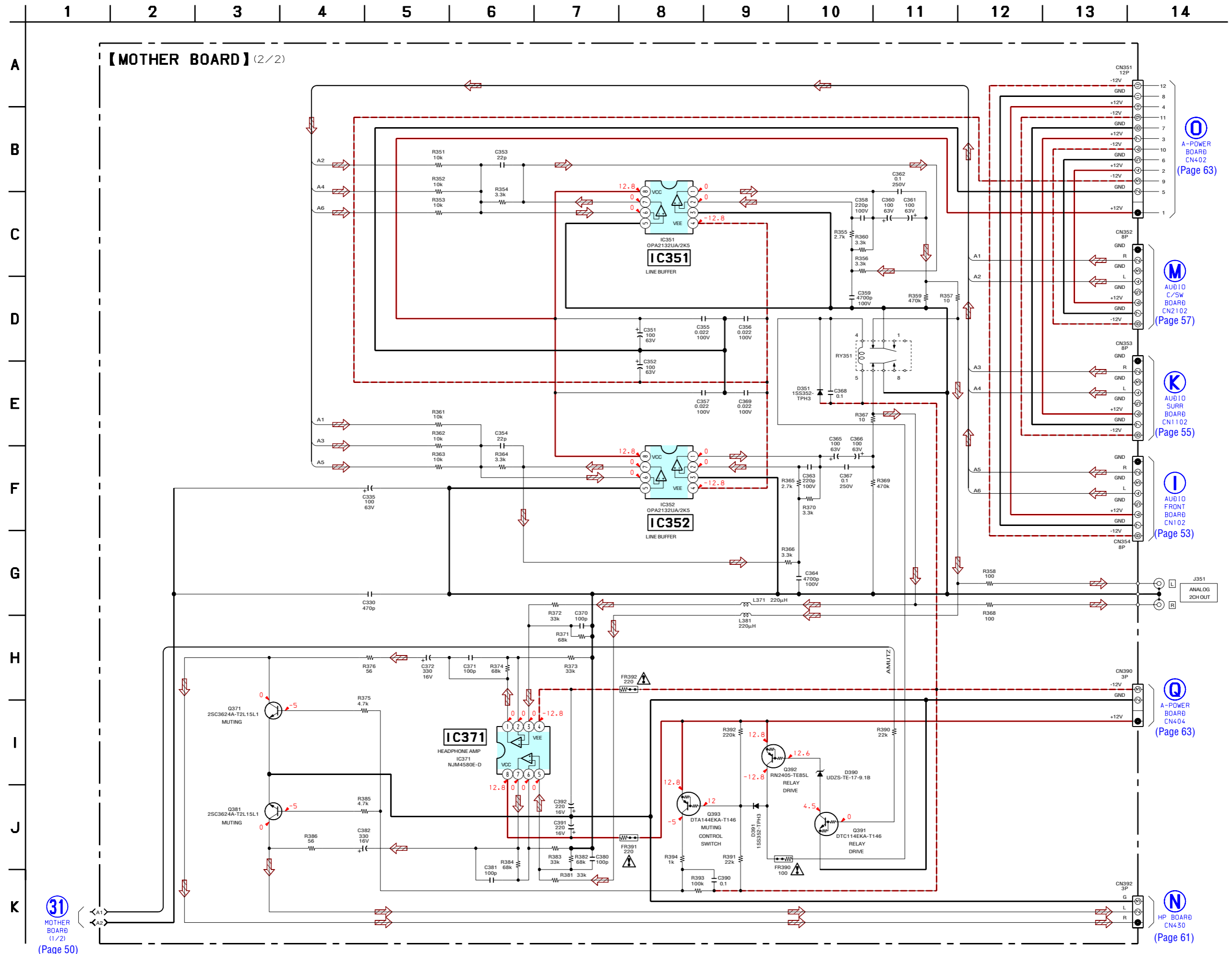
| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D301 | B-9 | IC307 | E-10 |
| D351 | C-2 | IC308 | D-10 |
| D390 | E-6 | IC351 | C-4 |
| D391 | E-6 | IC352 | D-4 |
| | | IC371 | E-11 |
| IC301 | C-9 | | |
| IC302 | B-10 | Q371 | D-12 |
| IC303 | C-11 | Q381 | E-12 |
| IC304 | C-11 | Q391 | E-5 |
| IC305 | D-12 | Q392 | E-6 |
| IC306 | D-11 | Q393 | E-6 |



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

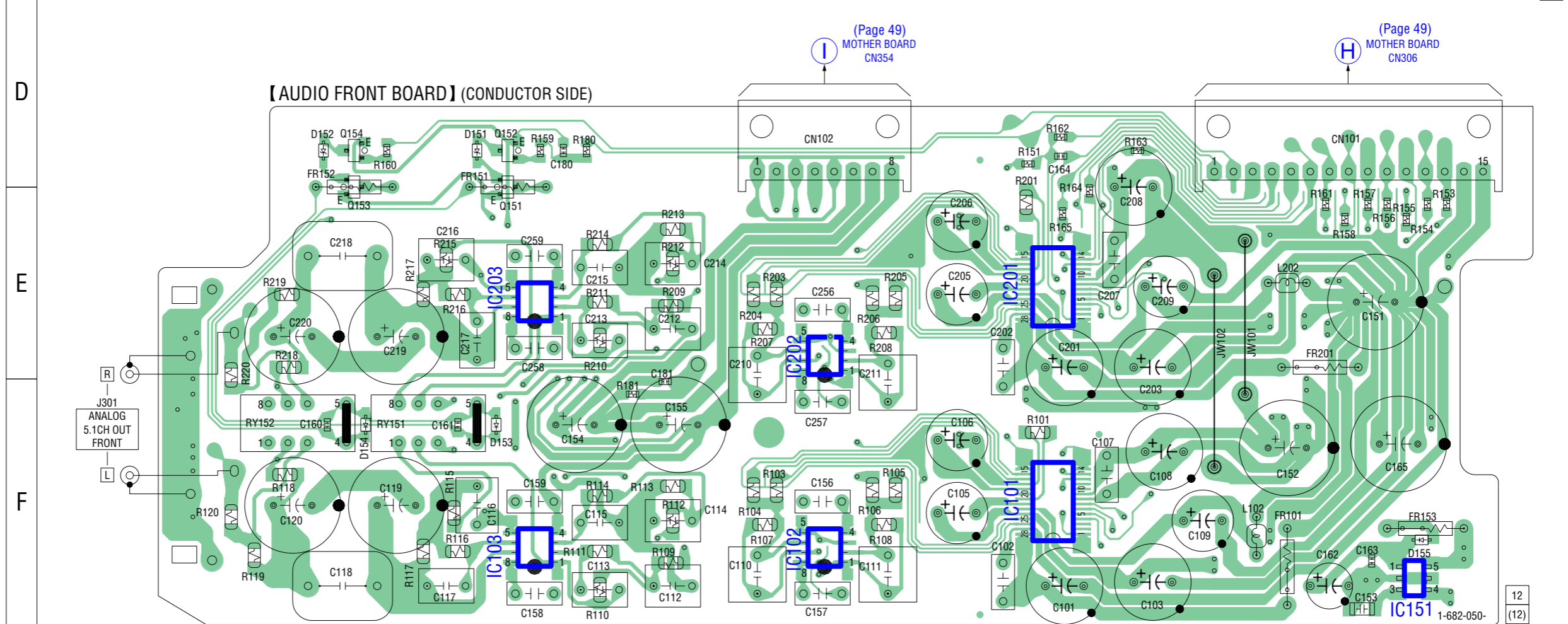
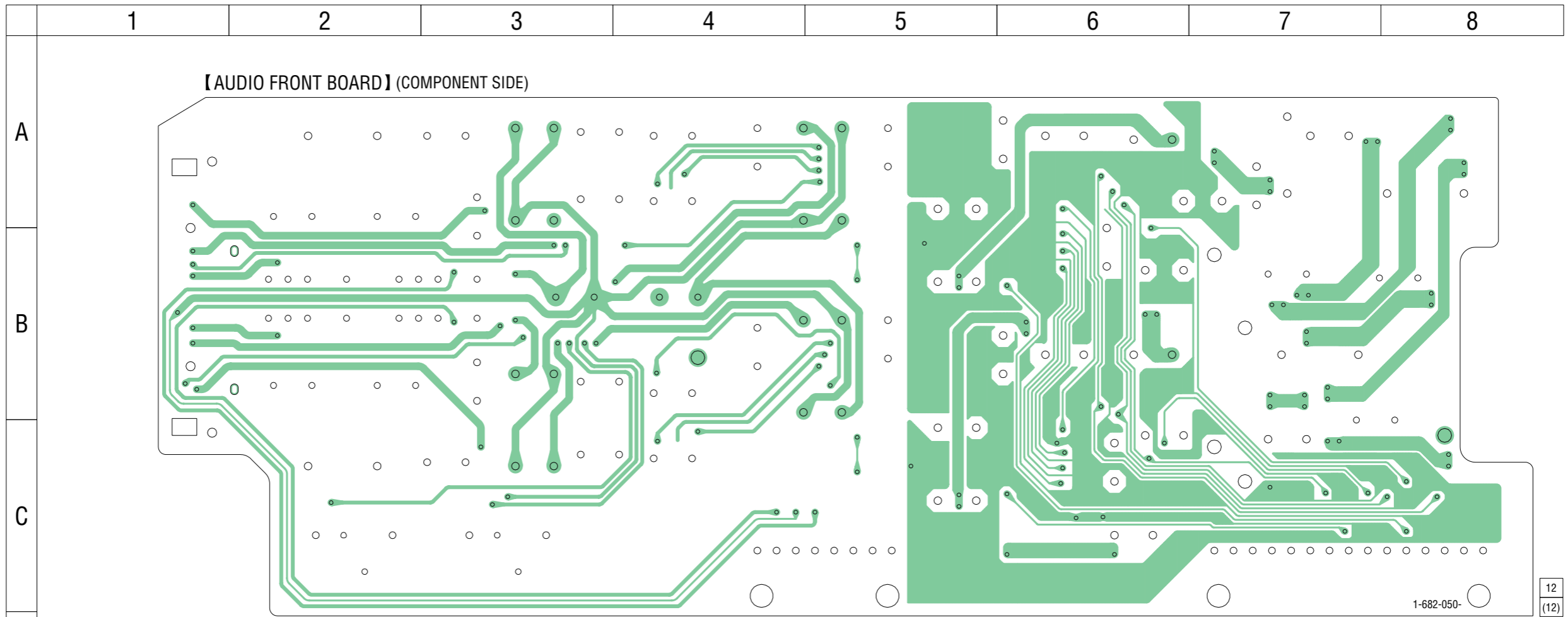
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-22. SCHEMATIC DIAGRAM – MOTHER Board (2/2) –

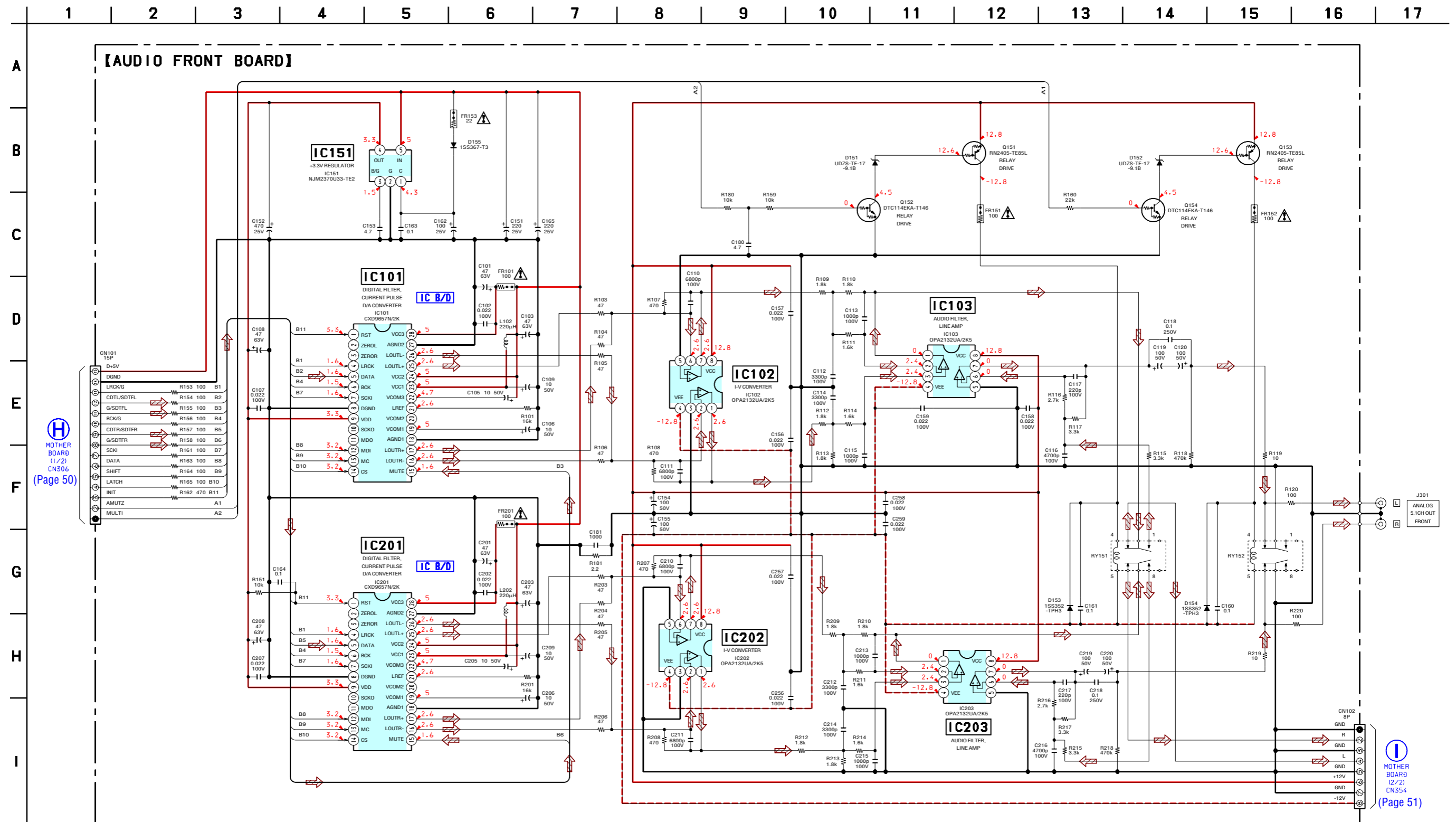


• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D151 | D-3 |
| D152 | D-2 |
| D153 | F-3 |
| D154 | F-2 |
| D155 | F-8 |
| IC101 | F-6 |
| IC102 | F-5 |
| IC103 | F-3 |
| IC151 | F-8 |
| IC201 | E-6 |
| IC202 | E-5 |
| IC203 | E-3 |
| Q151 | E-3 |
| Q152 | D-3 |
| Q153 | E-2 |
| Q154 | D-2 |



5-24. SCHEMATIC DIAGRAM – AUDIO FRONT Board – • See page 70 for IC Block Diagrams.



MOTHER BOARD (1/2) CN306 (Page 50)

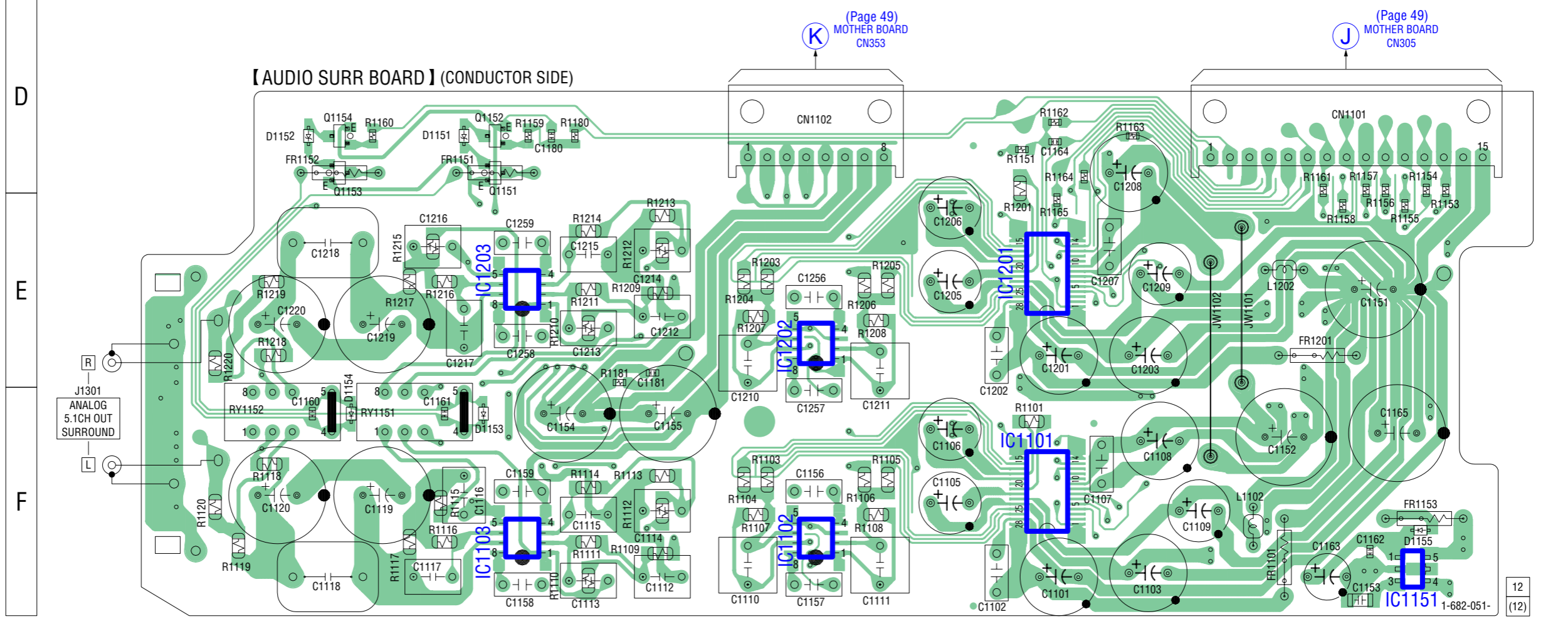
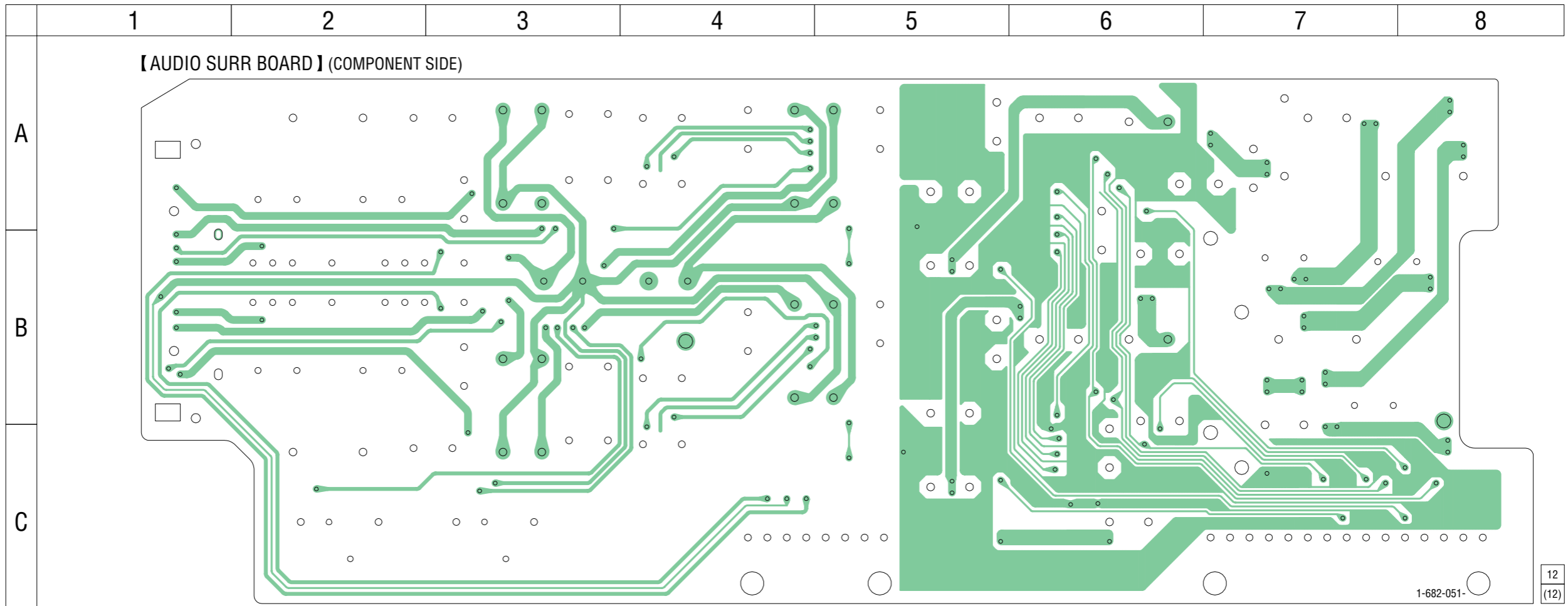
MOTHER BOARD (2/2) CN354 (Page 51)

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

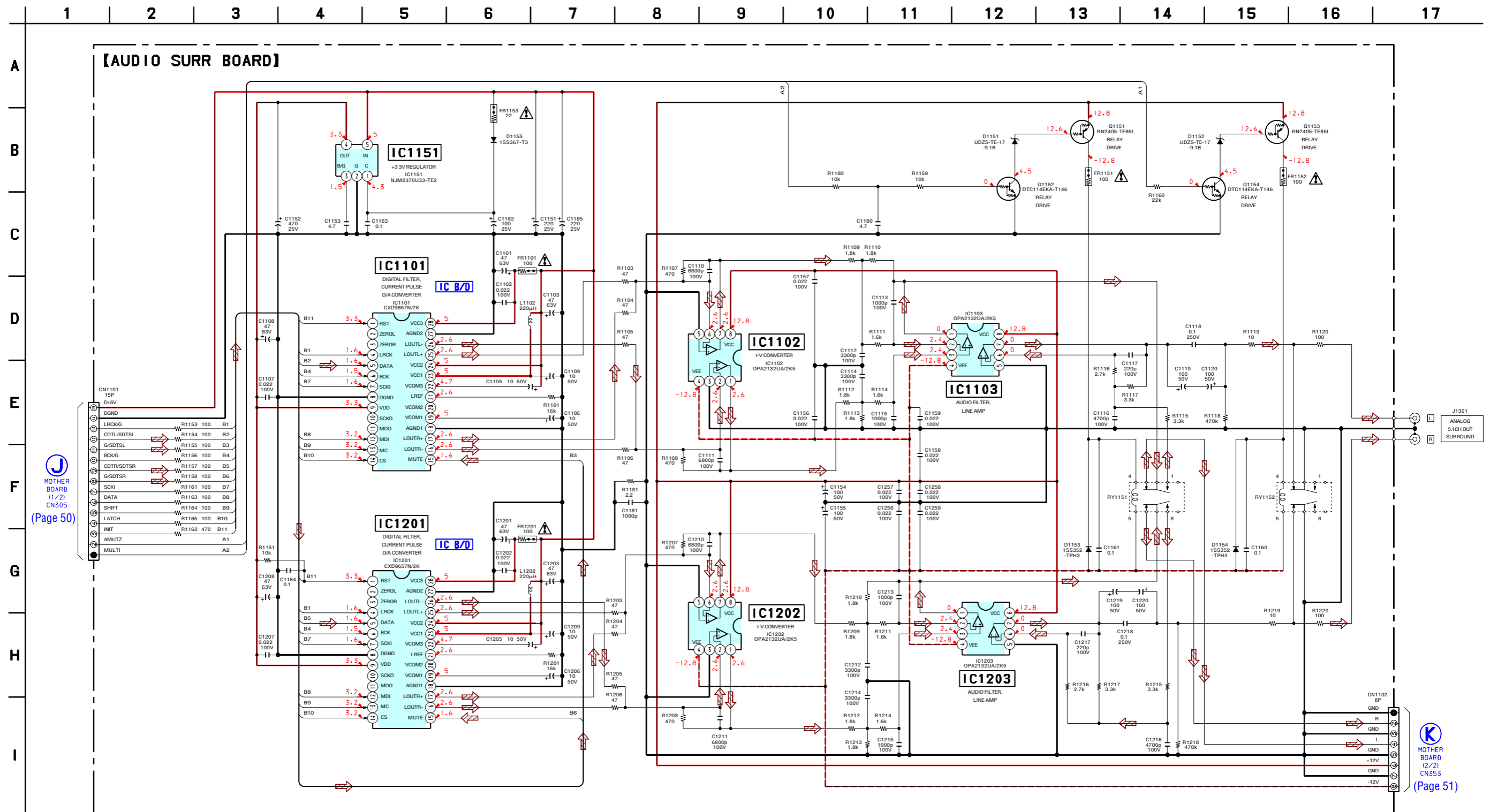
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D1151 | D-3 |
| D1152 | D-2 |
| D1153 | F-3 |
| D1154 | F-2 |
| D1155 | F-8 |
| IC1101 | F-6 |
| IC1102 | F-5 |
| IC1103 | F-3 |
| IC1151 | F-8 |
| IC1201 | E-6 |
| IC1202 | E-5 |
| IC1203 | E-3 |
| Q1151 | D-3 |
| Q1152 | D-3 |
| Q1153 | D-2 |
| Q1154 | D-2 |



5-26. SCHEMATIC DIAGRAM – AUDIO SURR Board – • See page 70 for IC Block Diagrams.

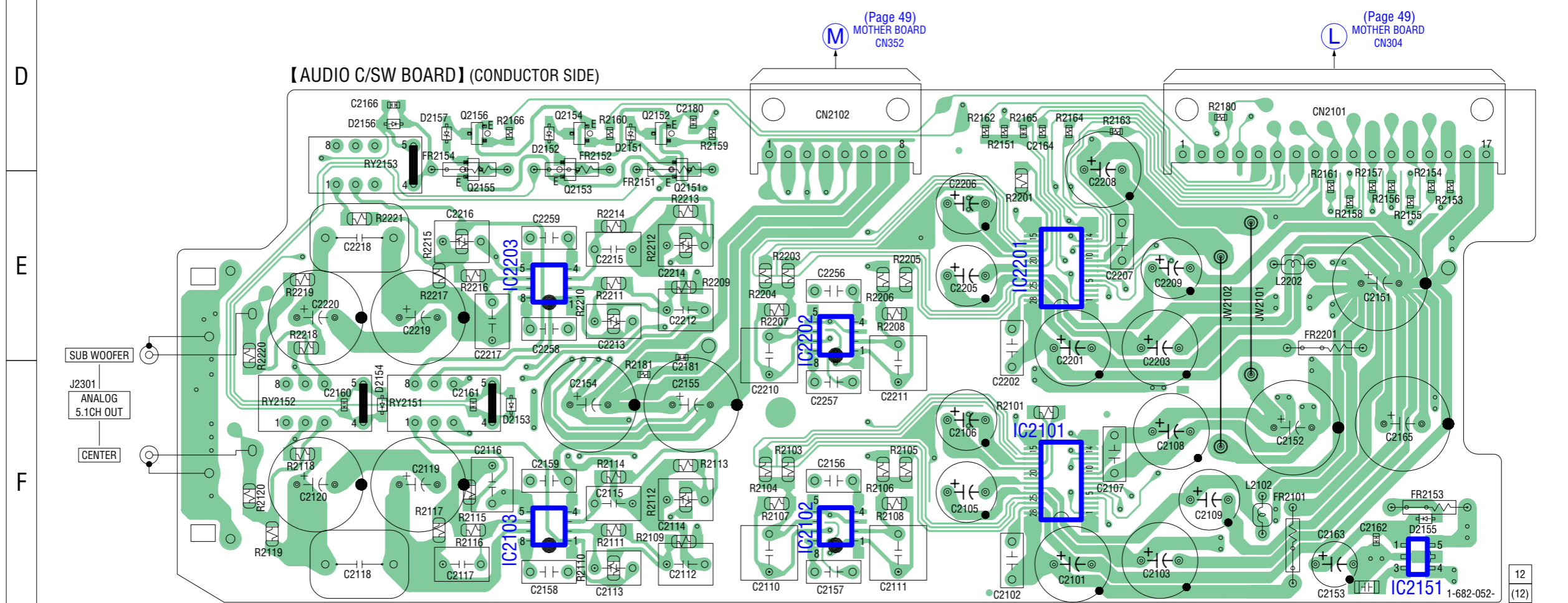
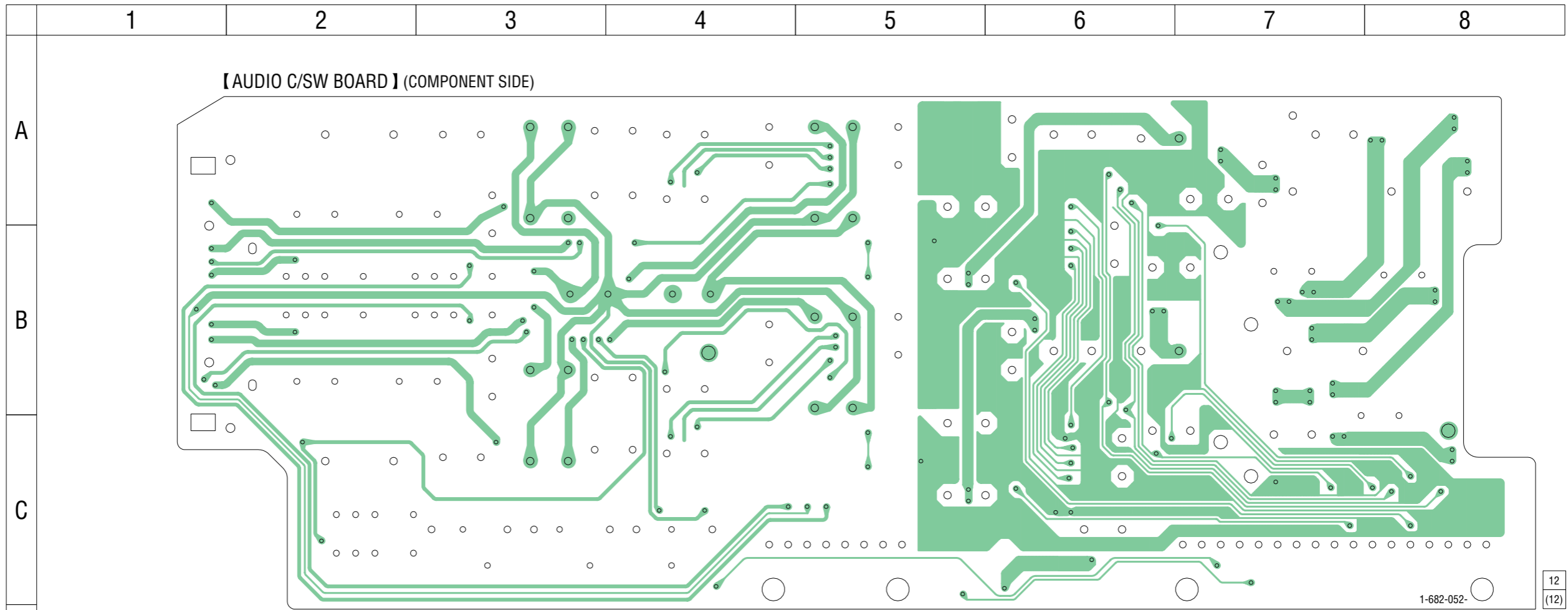


The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

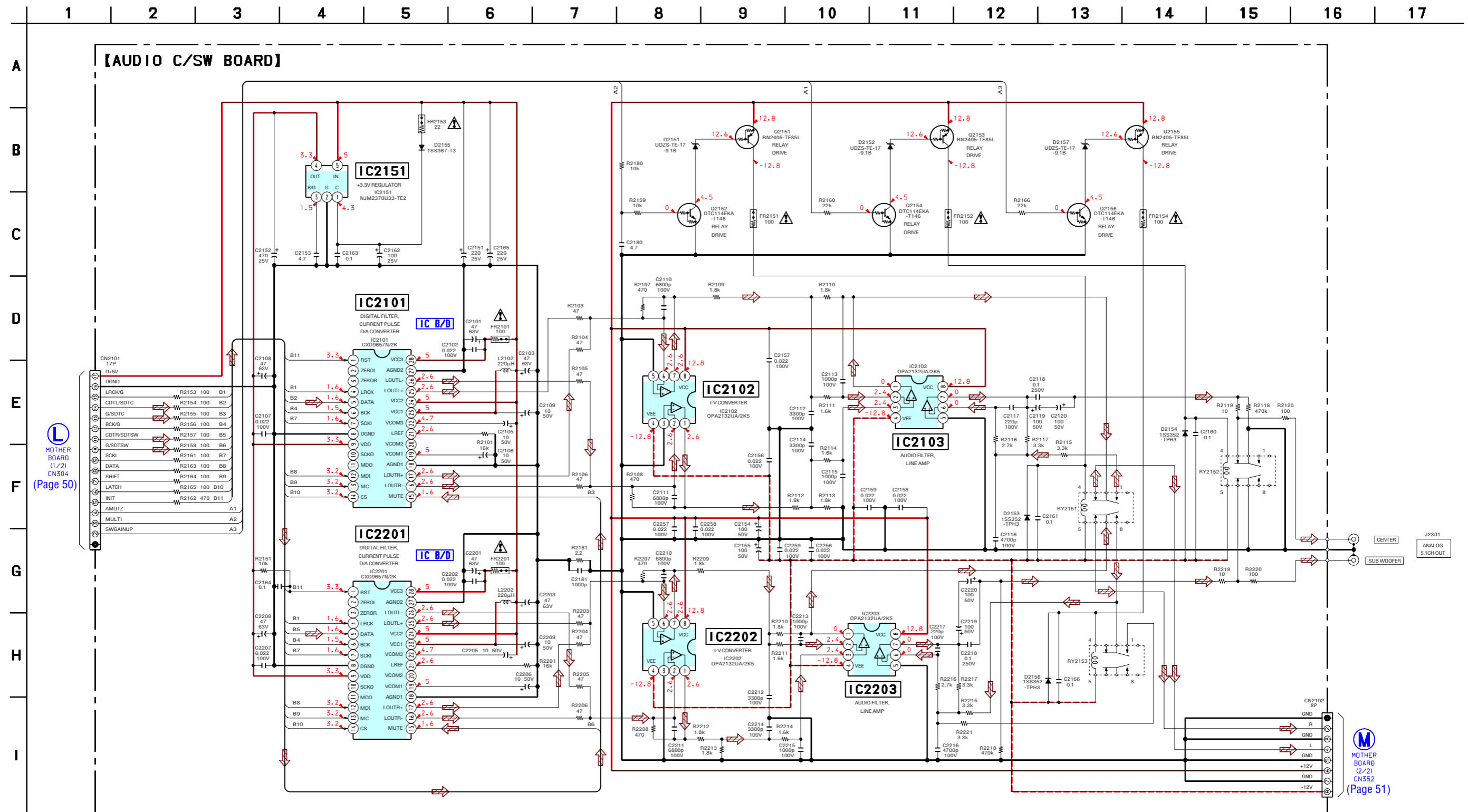
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D2151 | D-4 |
| D2152 | D-3 |
| D2153 | F-3 |
| D2154 | F-2 |
| D2155 | F-8 |
| D2156 | D-2 |
| D2157 | D-3 |
| IC2101 | F-6 |
| IC2102 | F-5 |
| IC2103 | F-3 |
| IC2151 | F-8 |
| IC2201 | E-6 |
| IC2202 | E-5 |
| IC2203 | E-3 |
| Q2151 | E-4 |
| Q2152 | D-4 |
| Q2153 | E-3 |
| Q2154 | D-3 |
| Q2155 | E-3 |
| Q2156 | D-3 |



5-28. SCHEMATIC DIAGRAM – AUDIO C/SW Board – • See page 70 for IC Block Diagrams.



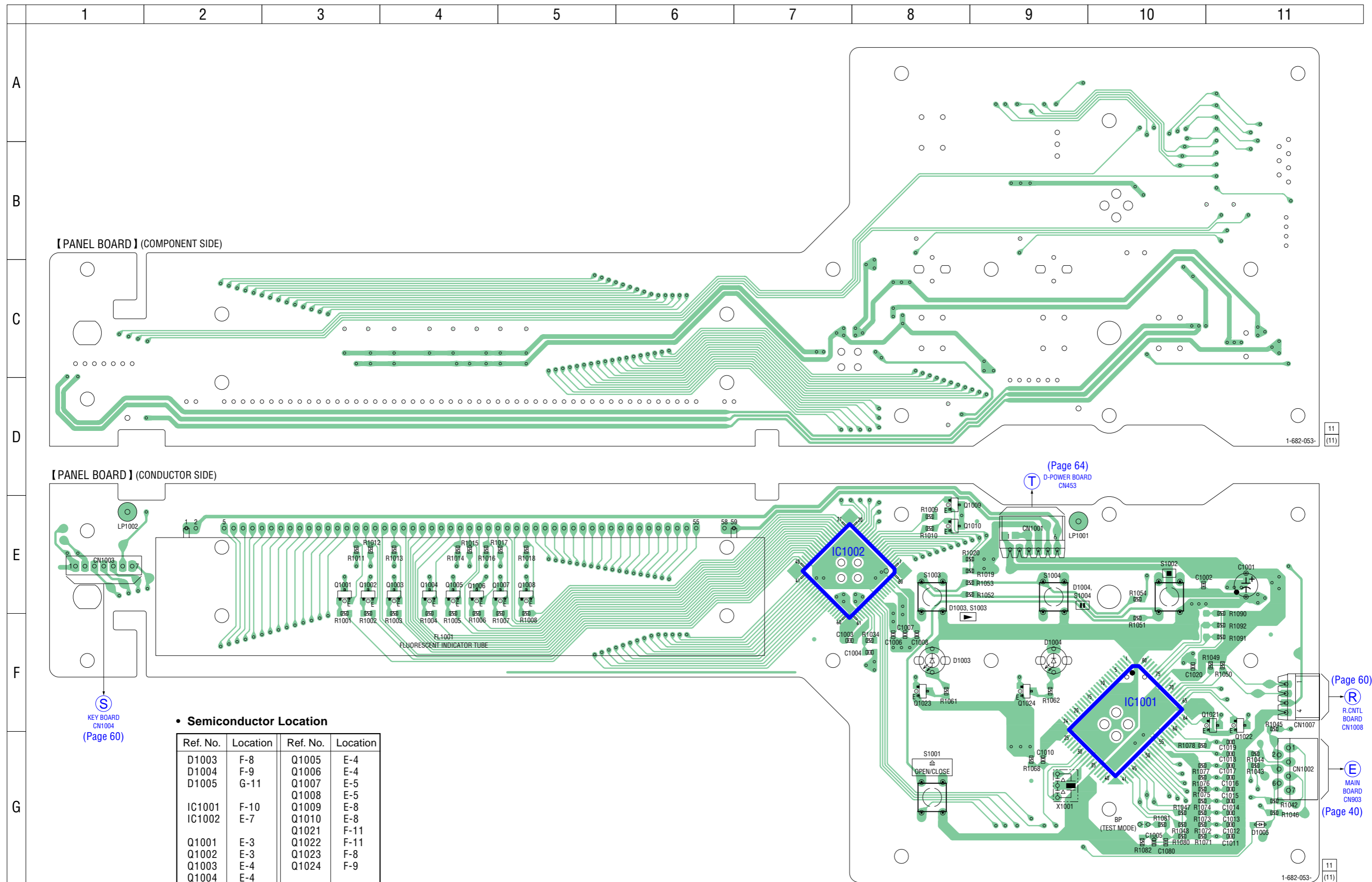
MOTHER BOARD (1/2) CN304 (Page 50)

MOTHER BOARD (2/2) CN352 (Page 51)

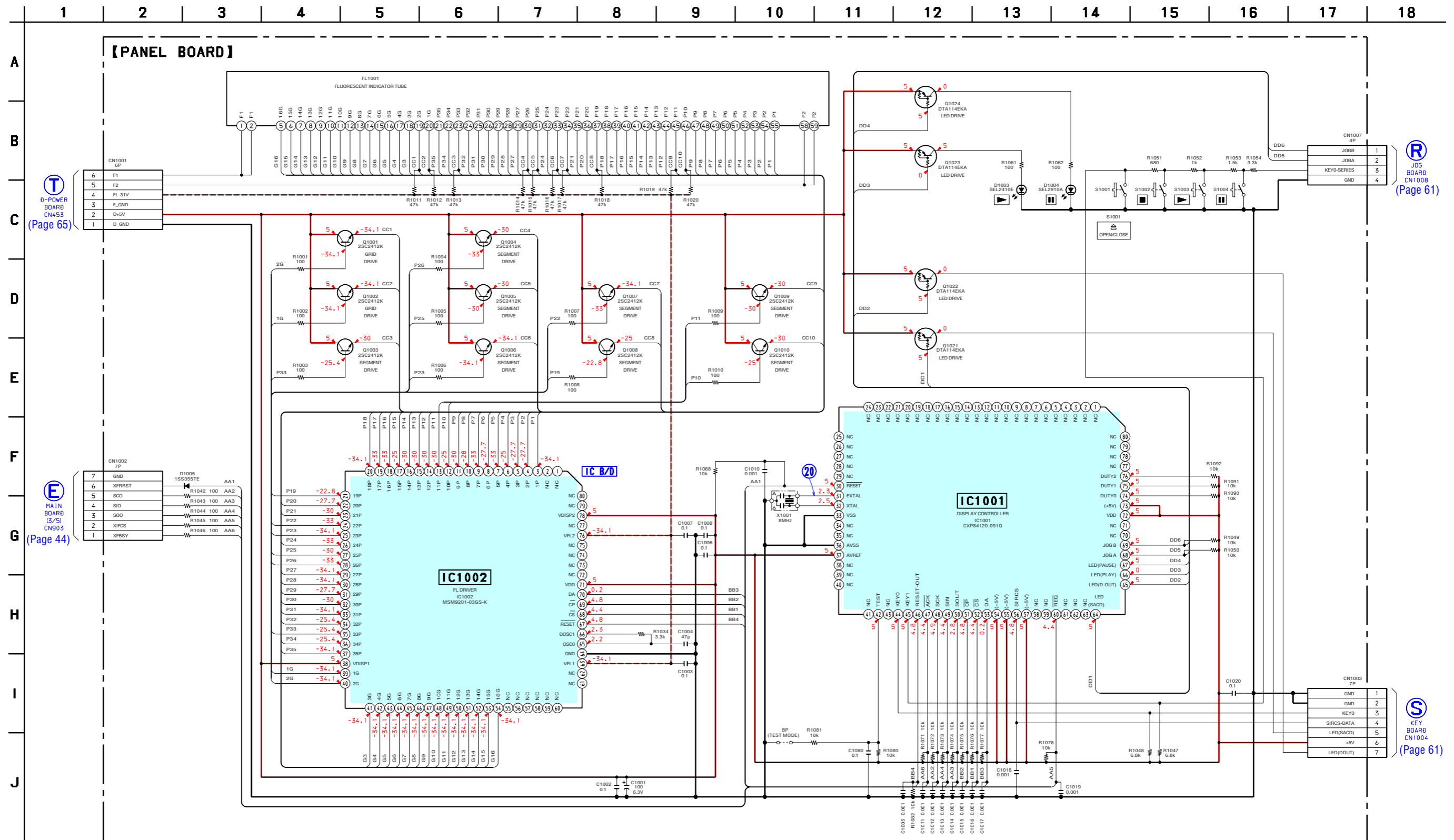
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

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

5-29. PRINTED WIRING BOARD – PANEL Board – • See page 37 for Circuit Boards Location.



5-30. SCHEMATIC DIAGRAM – PANEL Board – • See page 68 for Waveform. • See page 70 for IC Block Diagram.



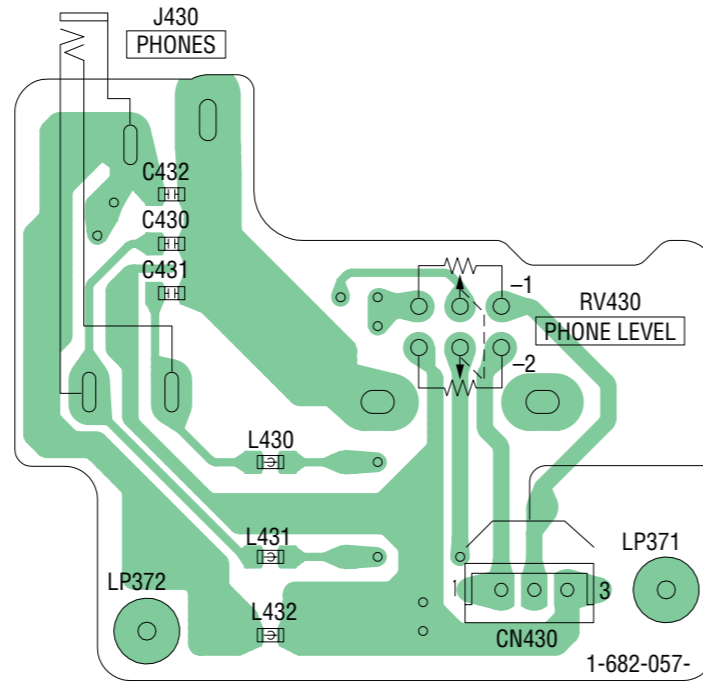
D-POWER BOARD CN453 (Page 65)

MAIN BOARD (S/S) CN903 (Page 14)

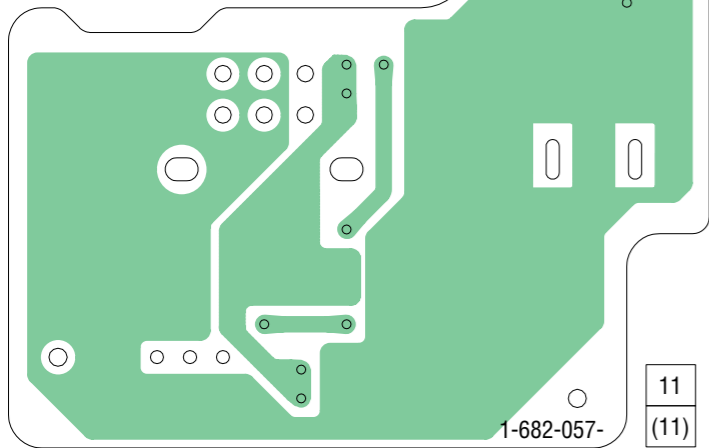
JOB BOARD CN1008 (Page 61)

KEY BOARD CN1004 (Page 61)

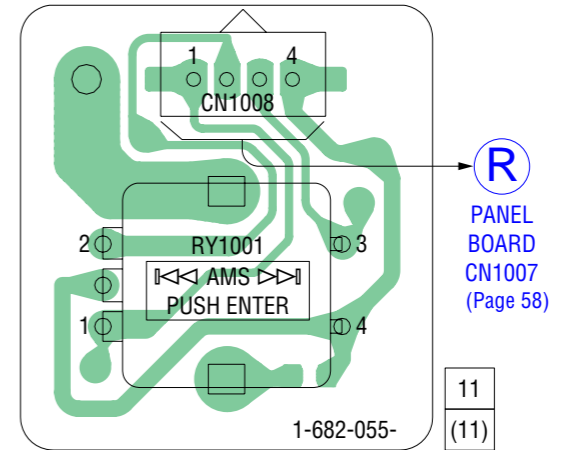
【HP BOARD】(CONDUCTOR SIDE)



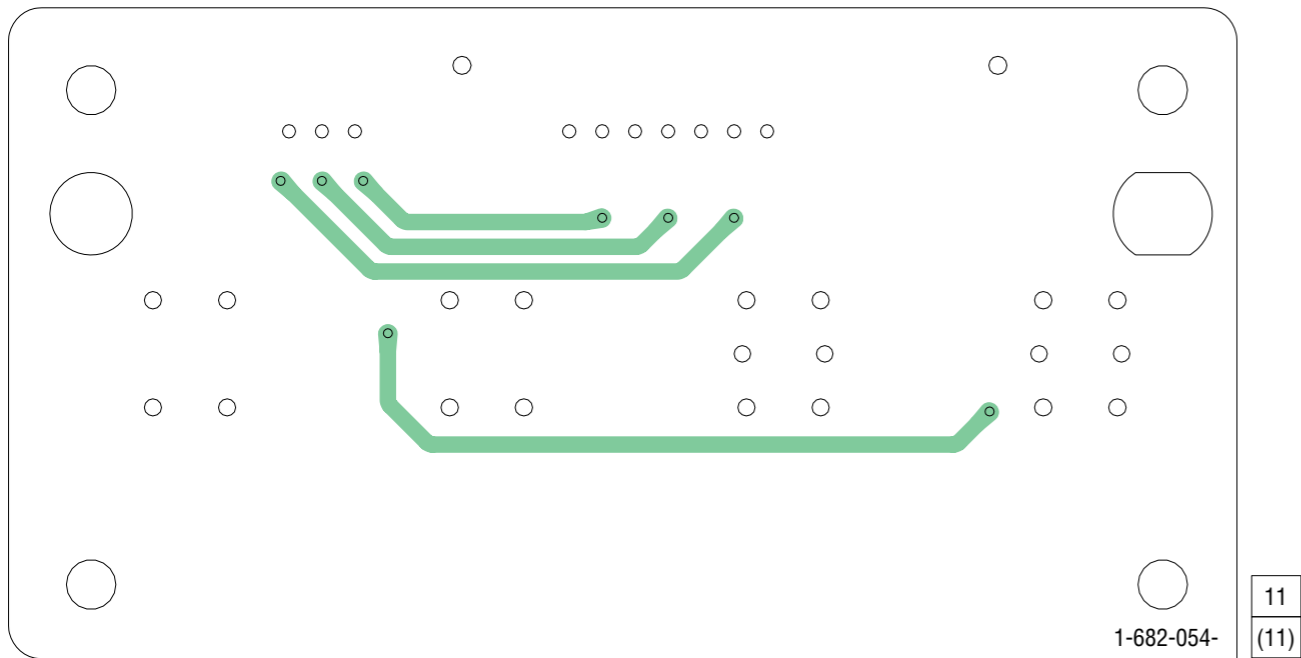
【HP BOARD】
(COMPONENT SIDE)



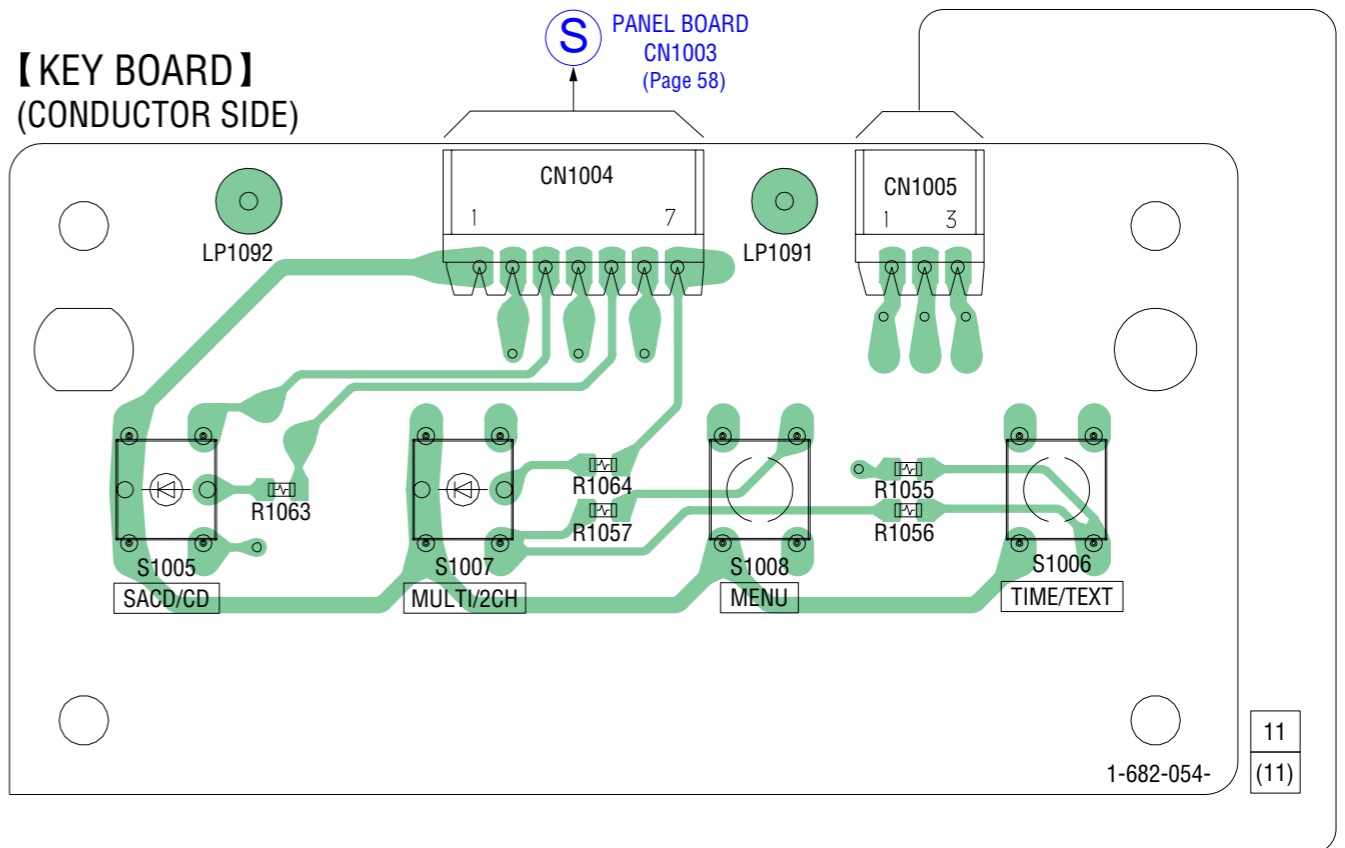
【JOG BOARD】



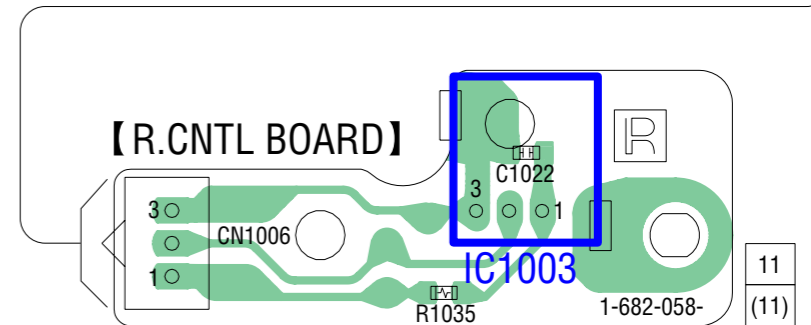
【KEY BOARD】(COMPONENT SIDE)



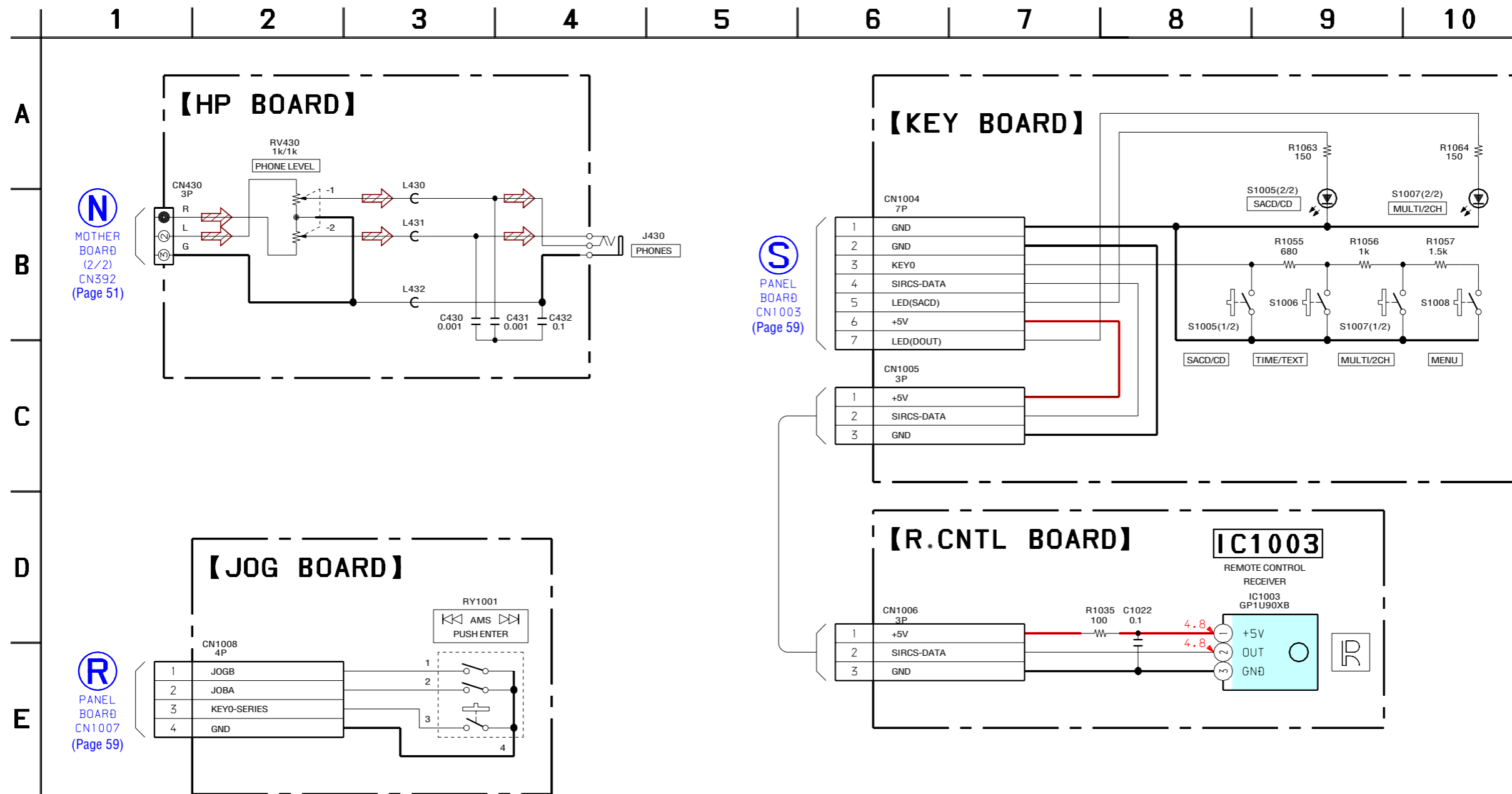
【KEY BOARD】
(CONDUCTOR SIDE)



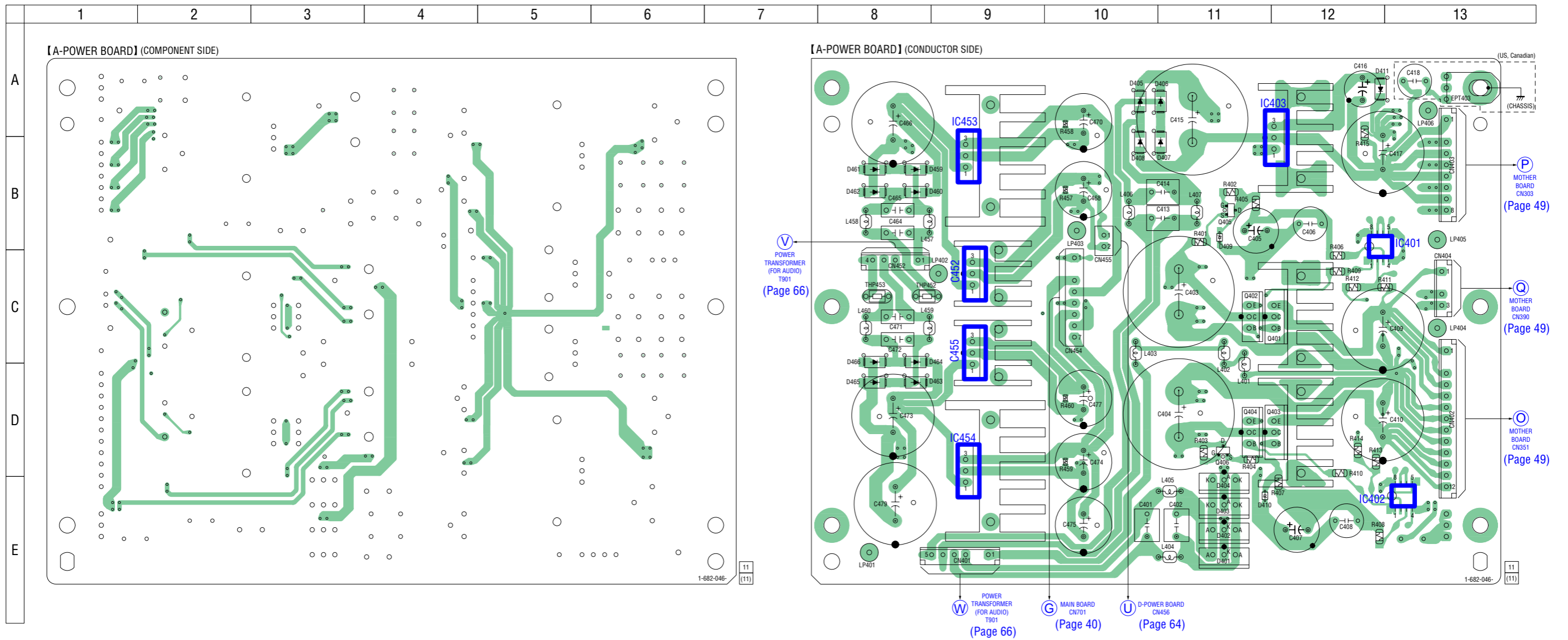
【R.CNTL BOARD】



5-32. SCHEMATIC DIAGRAM – HP/JOG/KEY/R.CNTL Boards –



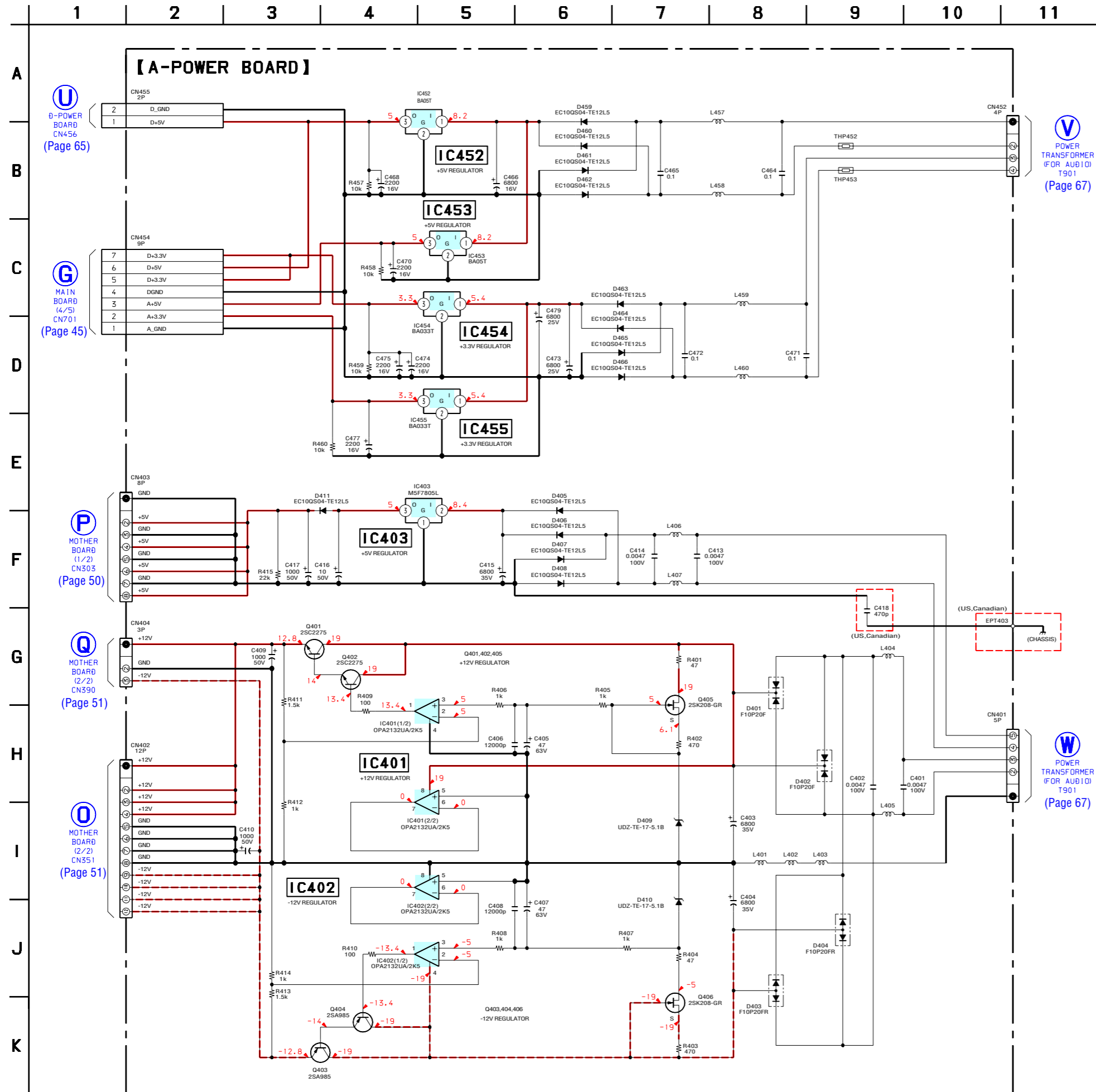
5-33. PRINTED WIRING BOARD – A-POWER Board – • See page 37 for Circuit Boards Location.



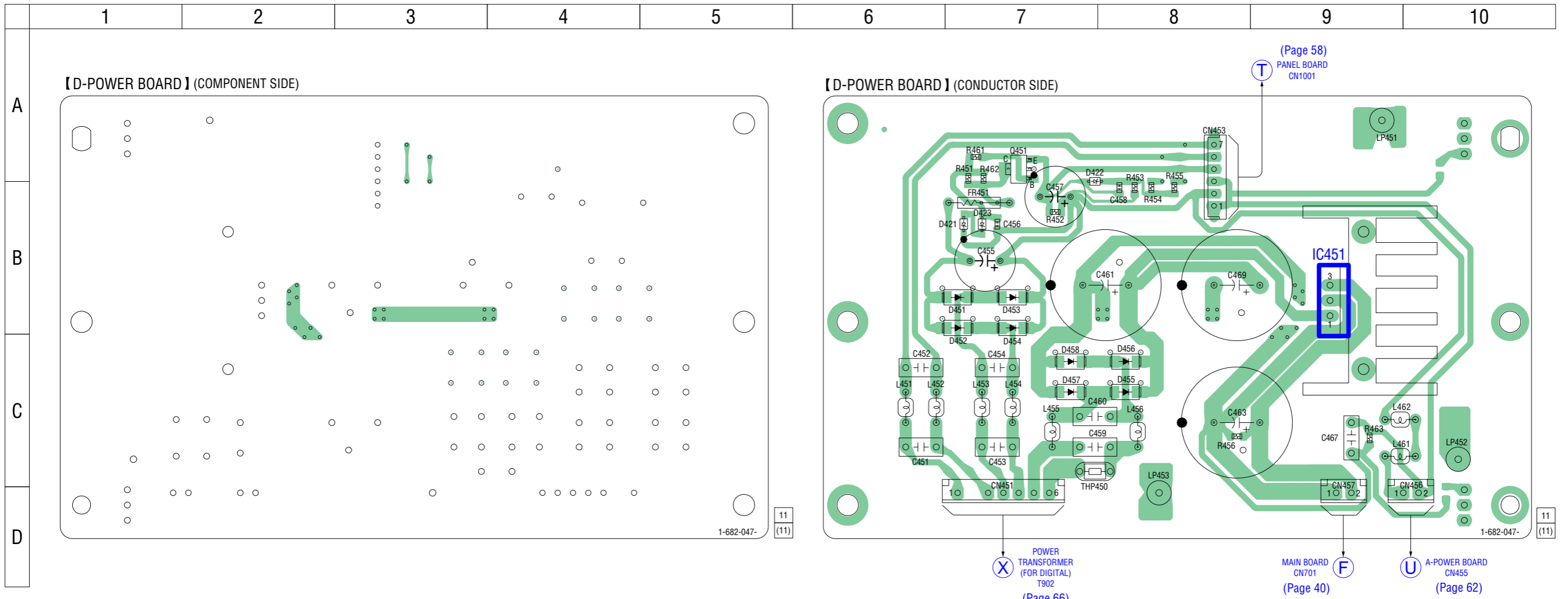
• Semiconductor Location

| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D401 | E-11 | D465 | D-8 |
| D402 | E-11 | D466 | C-8 |
| D403 | E-11 | | |
| D404 | E-11 | IC401 | B-12 |
| D405 | A-10 | IC402 | E-13 |
| D406 | A-11 | IC403 | A-12 |
| D407 | B-11 | IC452 | C-9 |
| D408 | B-10 | IC453 | B-9 |
| D409 | B-11 | IC454 | D-9 |
| D410 | E-11 | IC455 | C-9 |
| D411 | A-12 | | |
| D459 | B-8 | Q401 | C-12 |
| D460 | B-8 | Q402 | C-11 |
| D461 | B-8 | Q403 | D-12 |
| D462 | B-8 | Q404 | D-11 |
| D463 | D-8 | Q405 | B-11 |
| D464 | C-8 | Q406 | D-11 |

5-34. SCHEMATIC DIAGRAM – A-POWER Board –



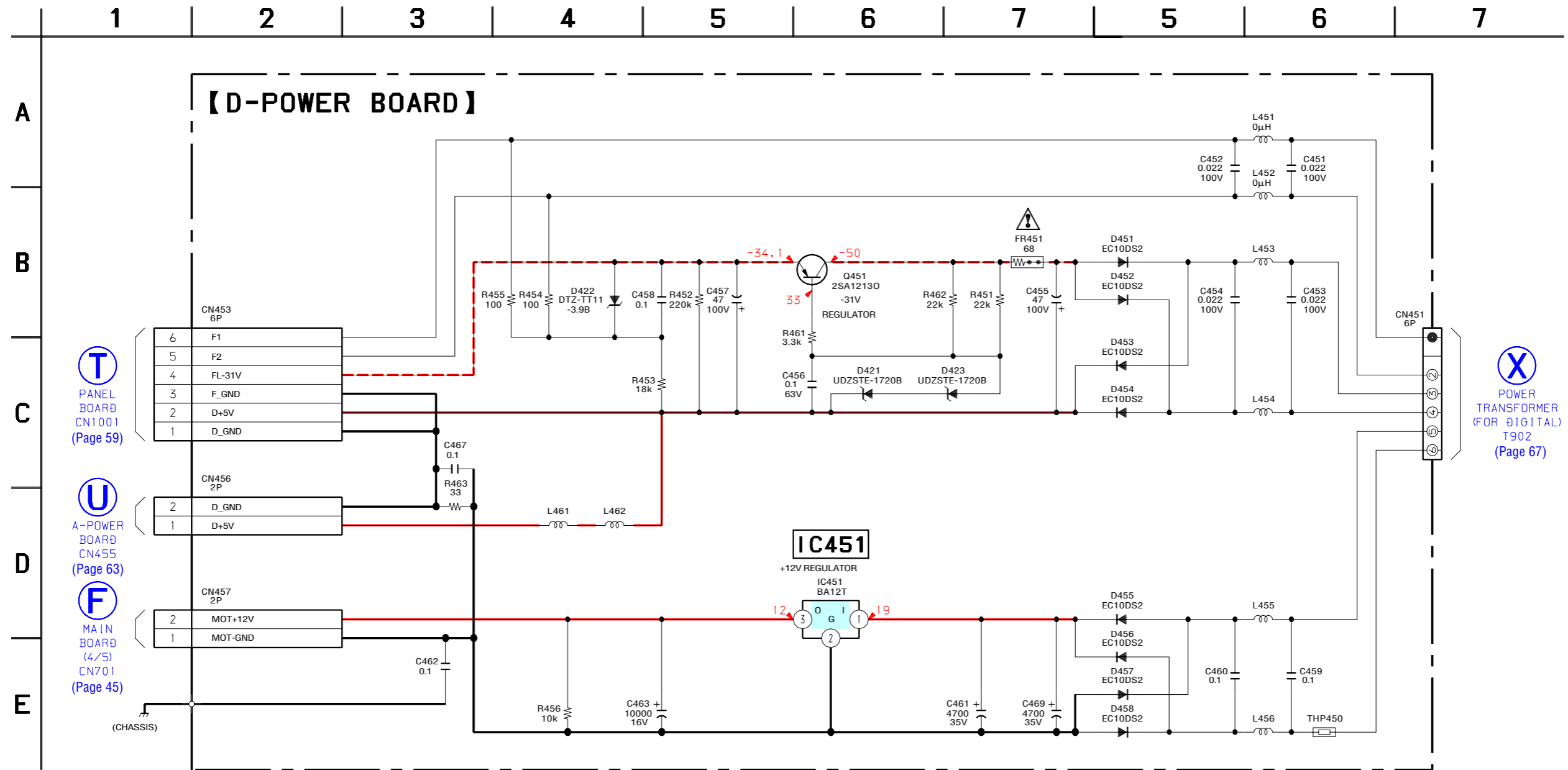
5-35. PRINTED WIRING BOARD – D-POWER Board – • See page 37 for Circuit Boards Location.



• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D421 | B-7 |
| D422 | A-7 |
| D423 | B-7 |
| D451 | B-7 |
| D452 | B-7 |
| D453 | B-7 |
| D454 | B-7 |
| D455 | C-8 |
| D456 | C-8 |
| D457 | C-7 |
| D458 | C-7 |
| IC451 | B-9 |
| Q451 | A-7 |

5-36. SCHEMATIC DIAGRAM – D-POWER Board –

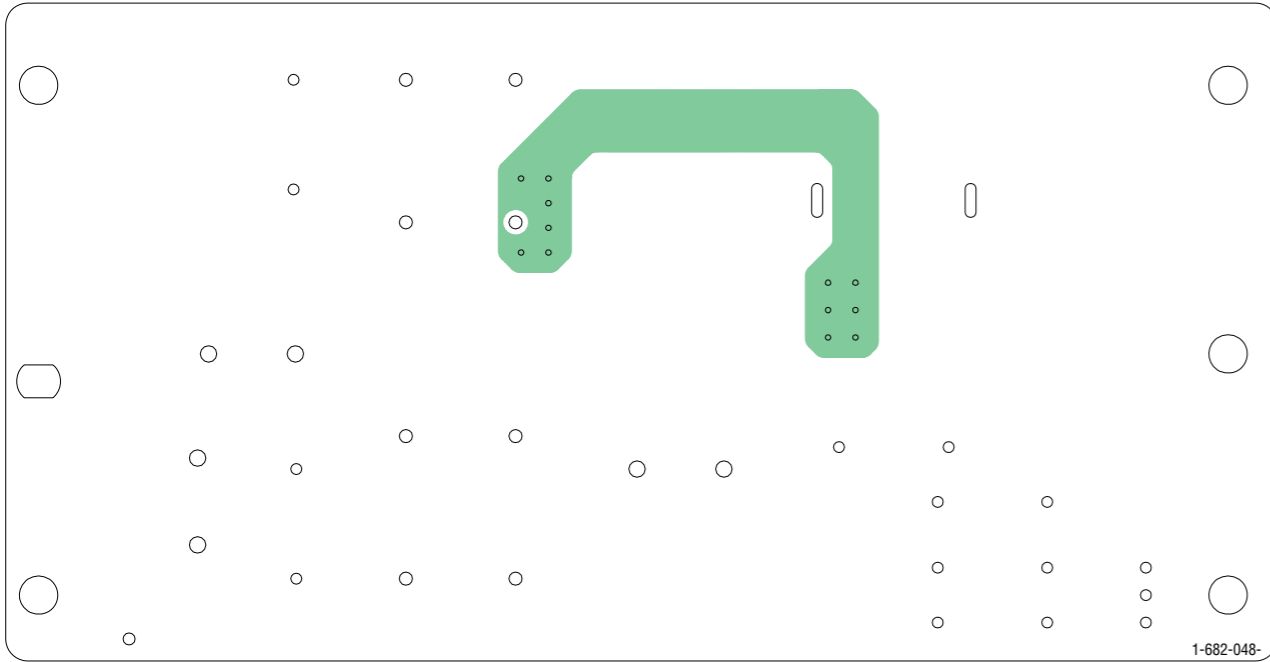


The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

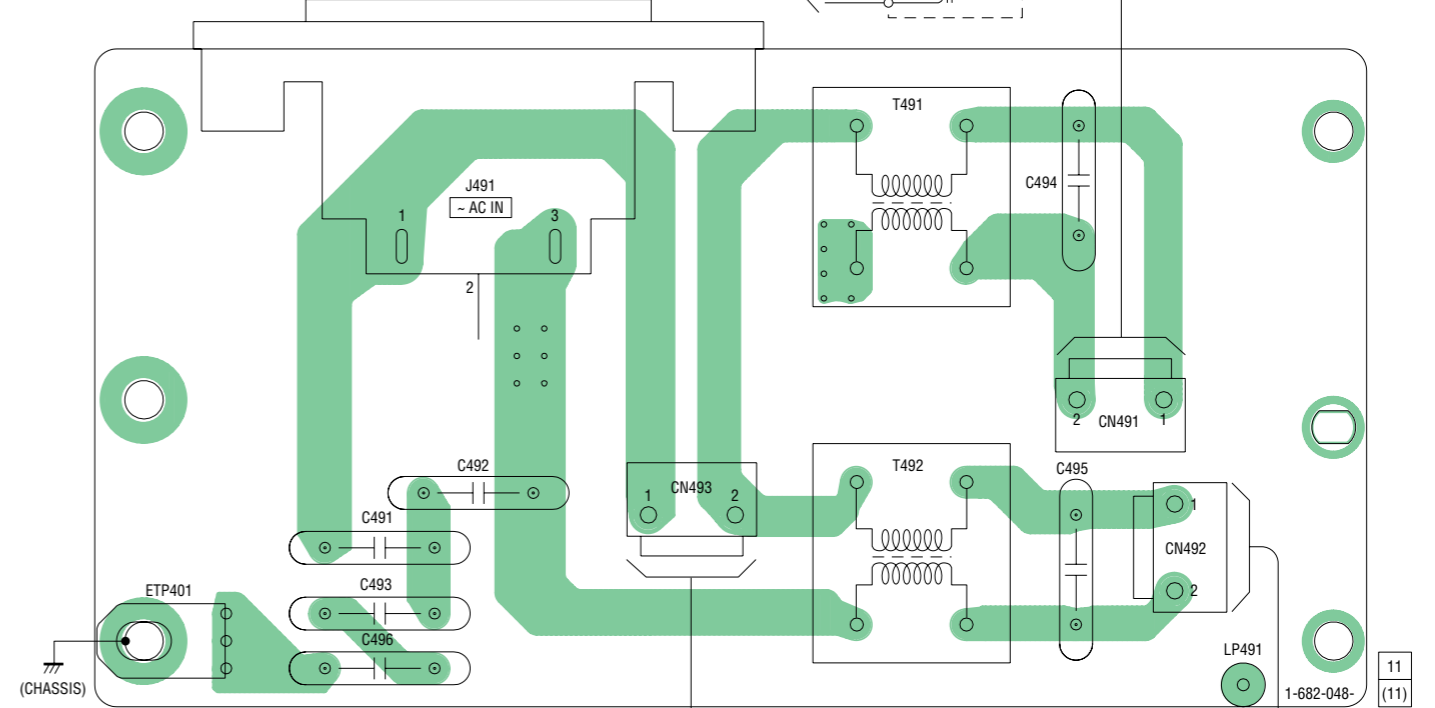
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-37. PRINTED WIRING BOARDS – AC/AC SW Boards – • See page 37 for Circuit Boards Location.

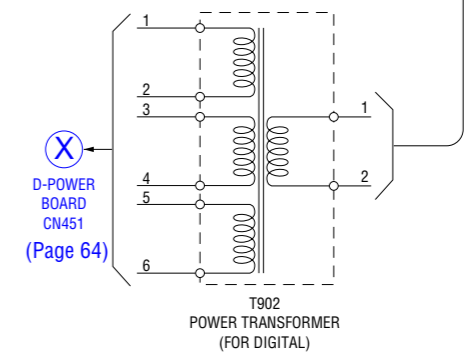
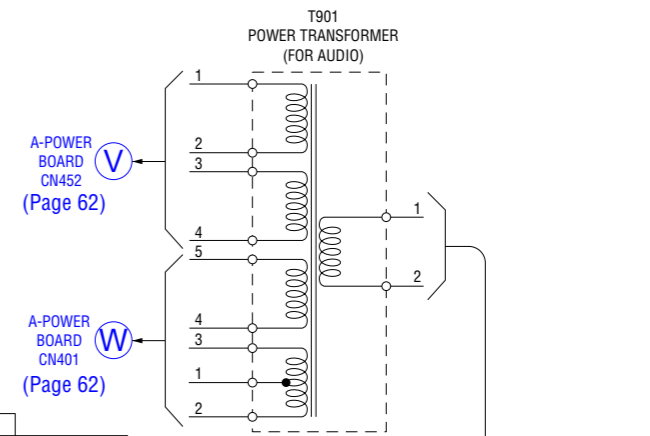
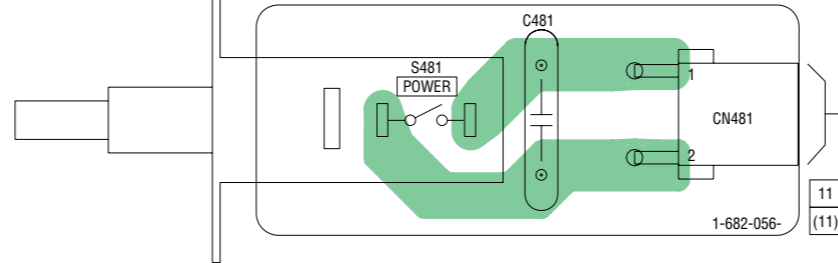
【AC BOARD】(COMPONENT SIDE)



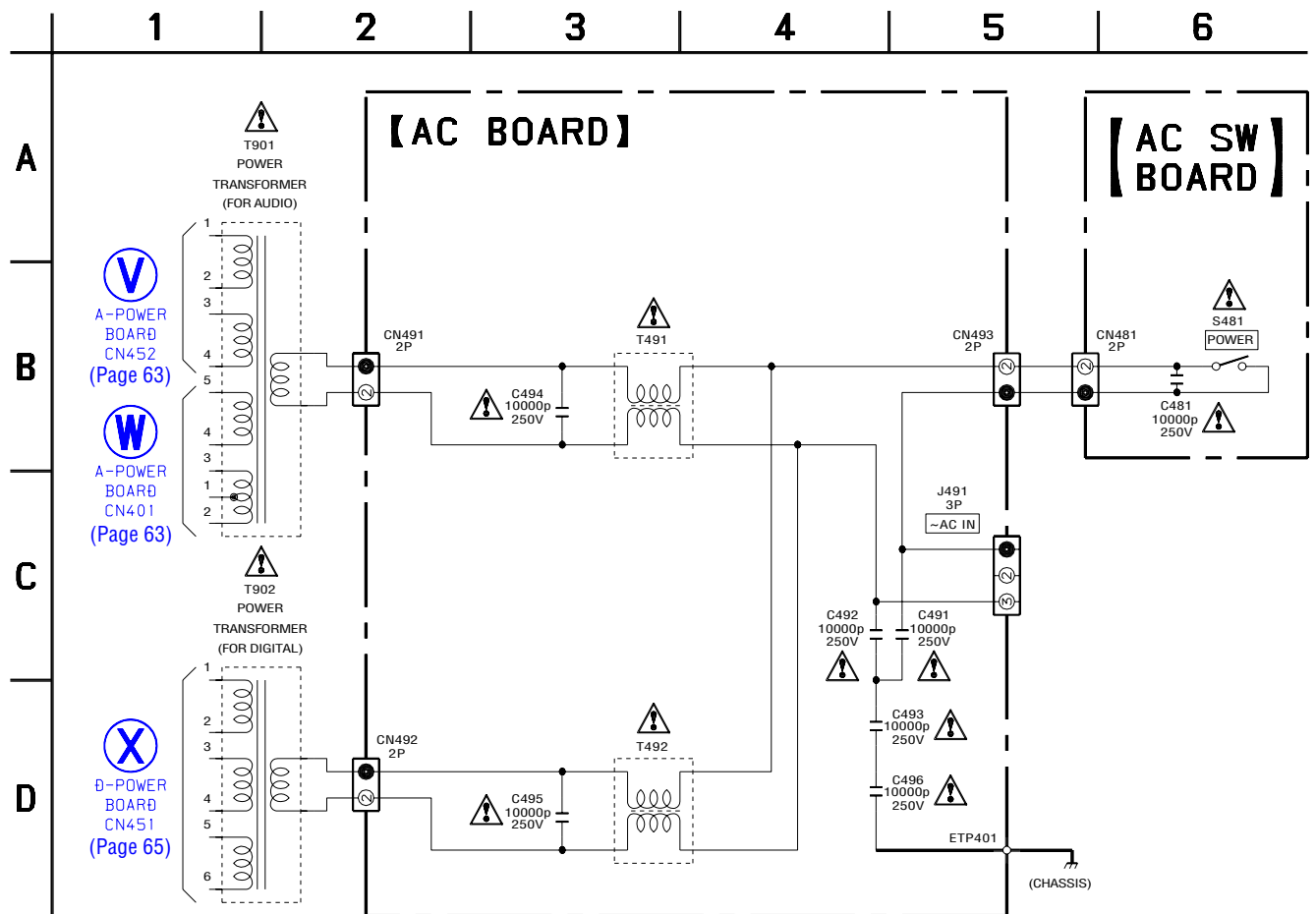
【AC BOARD】(CONDUCTOR SIDE)



【AC SW BOARD】



5-38. SCHEMATIC DIAGRAM – AC/AC SW Boards –



V
A-POWER BOARD
CN452
(Page 63)

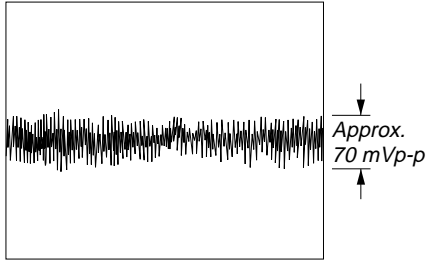
W
A-POWER BOARD
CN401
(Page 63)

X
D-POWER BOARD
CN451
(Page 65)

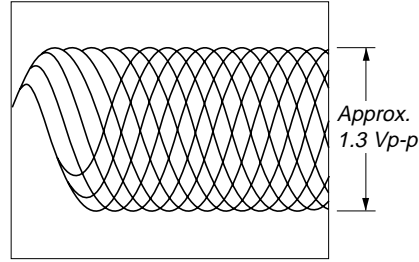
| | |
|---|---|
| <p>The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.</p> | <p>Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>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

• Waveforms
– RF Board –

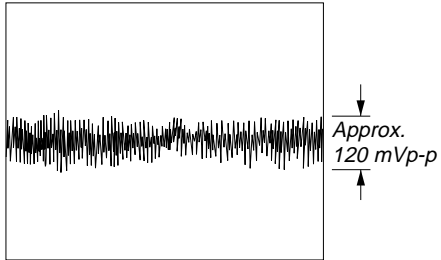
1 IC001 39 (TE) (CD PLAY)



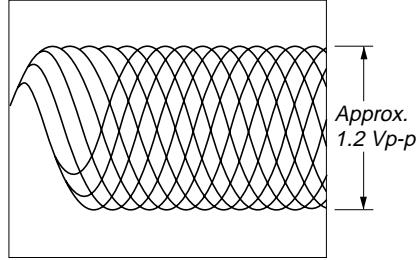
5 IC001 57 (RFAC) (CD PLAY)



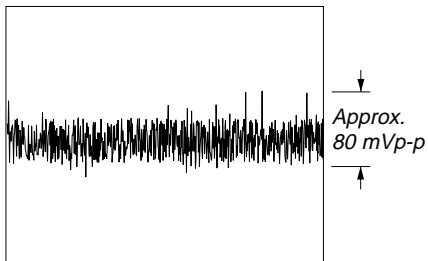
2 IC001 39 (TE) (SACD PLAY)



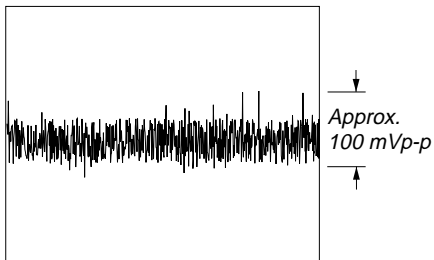
6 IC001 57 (RFAC) (SACD PLAY)



3 IC001 40 (FE) (CD PLAY)

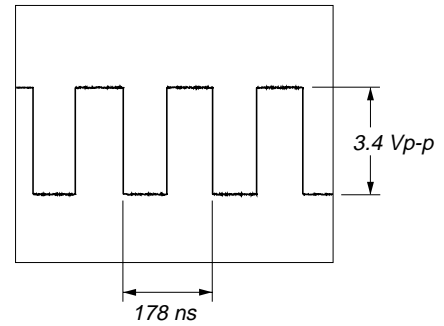


4 IC001 40 (FE) (SACD PLAY)

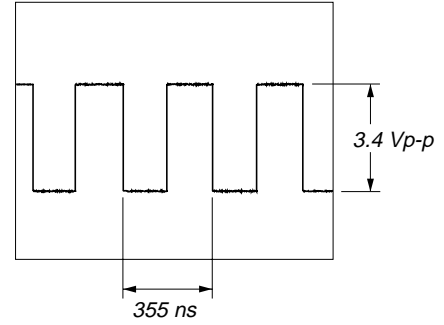


– MAIN Board –

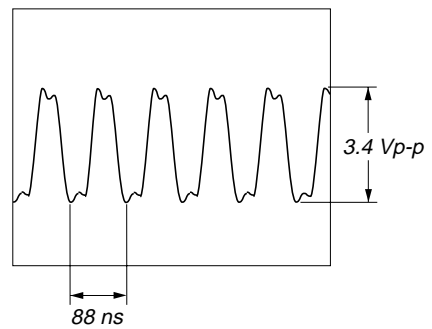
7 IC803 81 (A1)



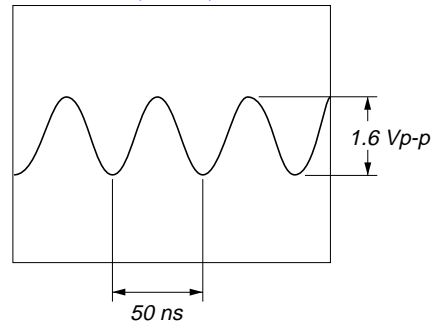
8 IC803 78 (A2)



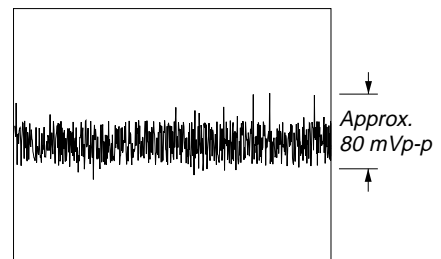
9 IC811 1



10 IC901 41 (EXTAL)



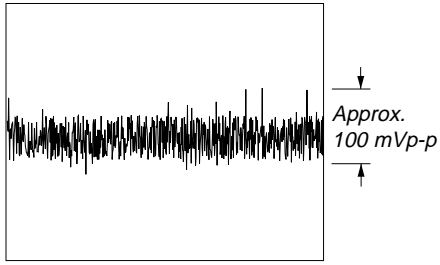
11 IC509 39 (FE) (CD PLAY)



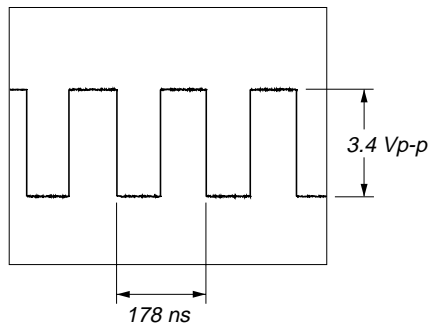
– MOTHER Board –

– PANEL Board –

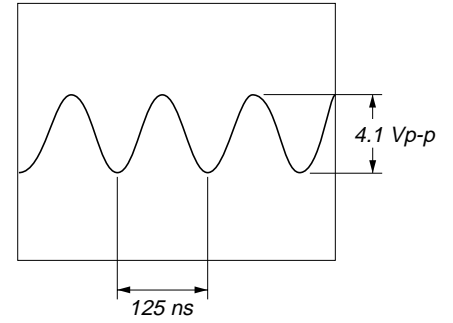
12 IC509 39 (FE) (SACD PLAY)



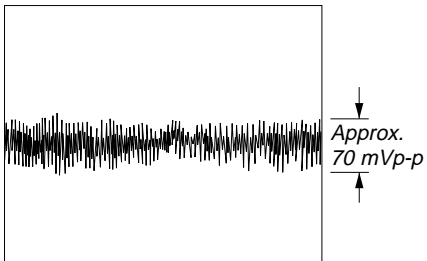
17 IC303 14 (QA)



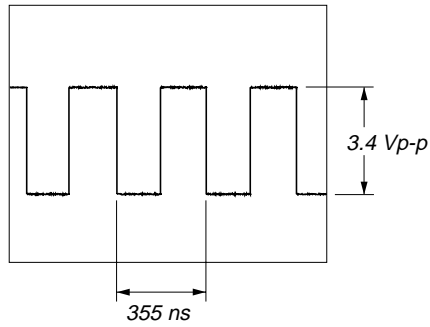
20 IC1001 31 (EXTAL)



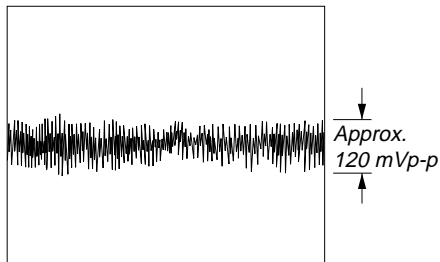
13 IC509 41 (TE) (CD PLAY)



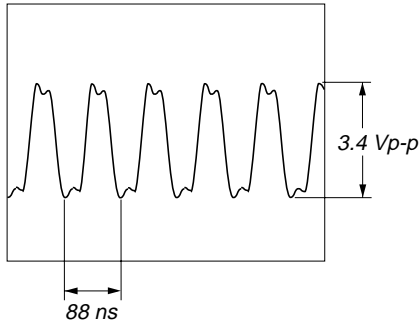
18 IC303 19 (QB)



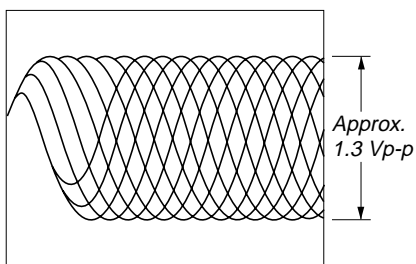
14 IC509 41 (TE) (SACD PLAY)



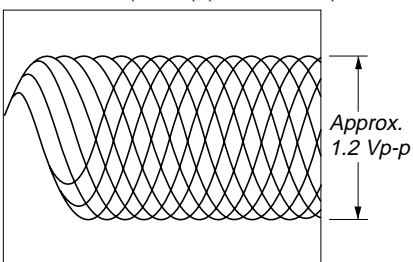
19 IC302 2



15 IC509 50 (RFAC) (CD PLAY)

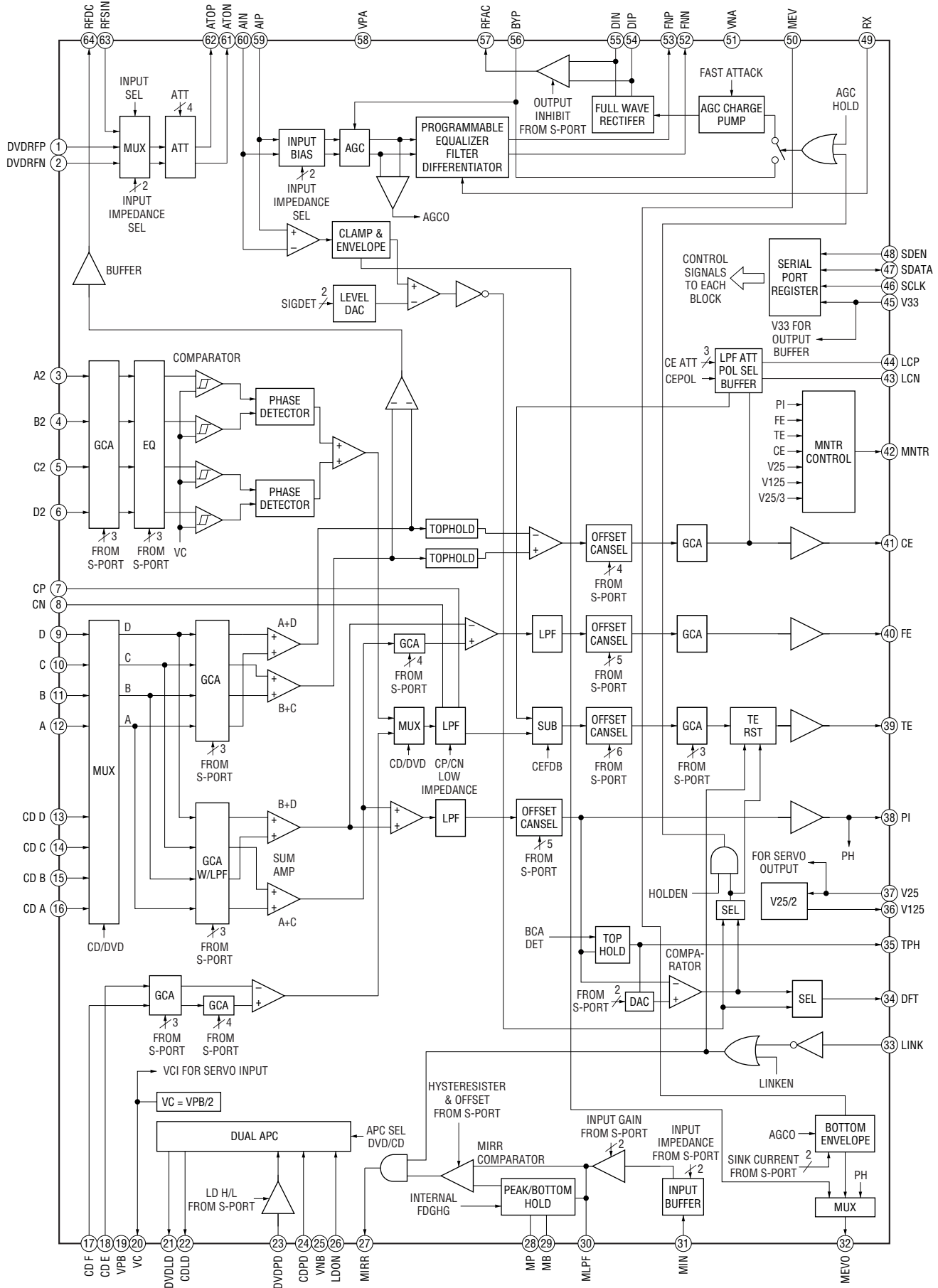


16 IC509 50 (RFAC) (SACD PLAY)

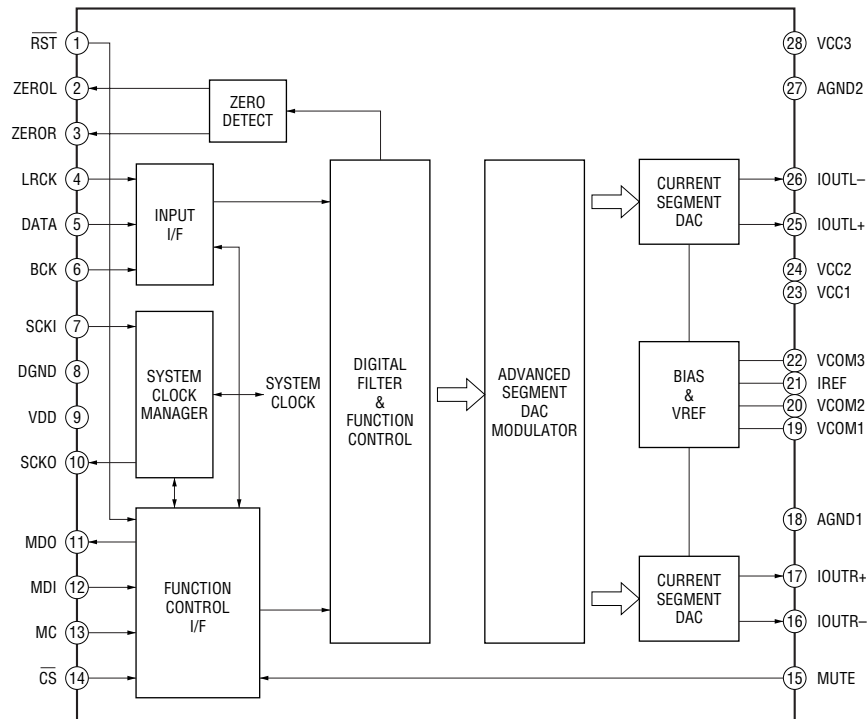


• IC Block Diagrams

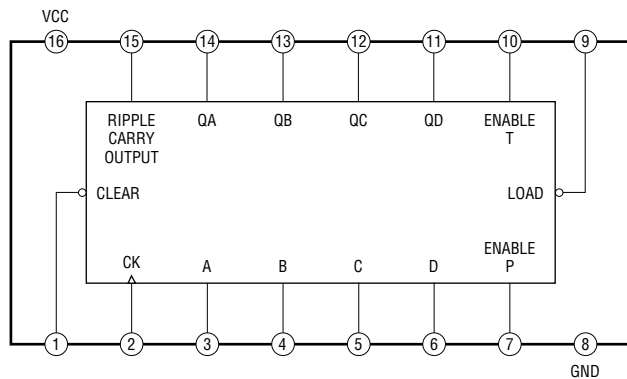
IC001 CXD1881R (RF Board)



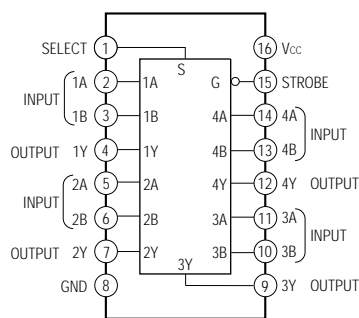
IC101, 201 CXD9657N/2K (AUDIO FRONT Board)
 IC1101, 1201 CXD9657N/2K (AUDIO SURR Board)
 IC2101, 2201 CXD9657N/2K (AUDIO C/SW Board)



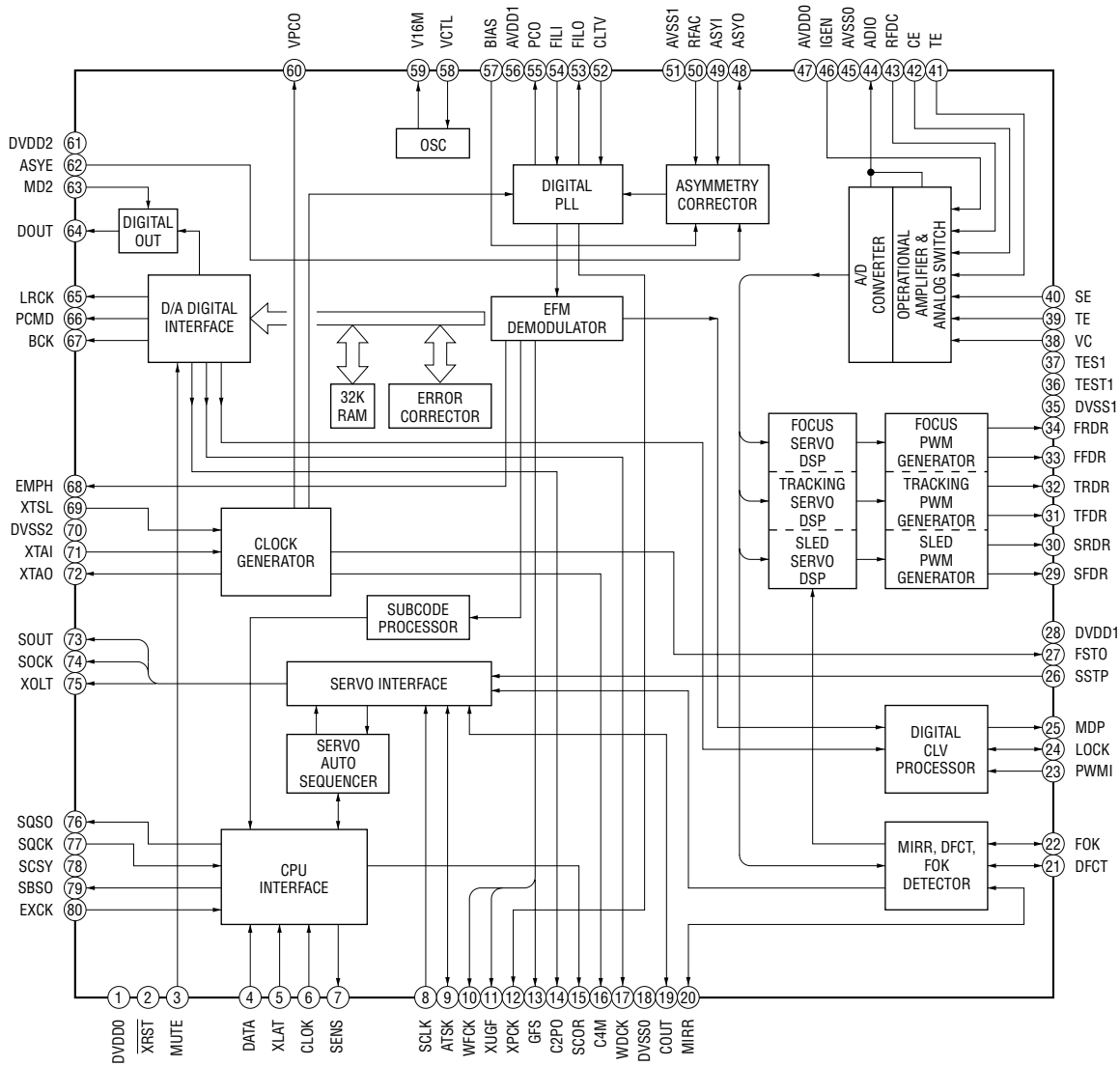
IC303 HD74LV161ATELL (MOTHER Board)



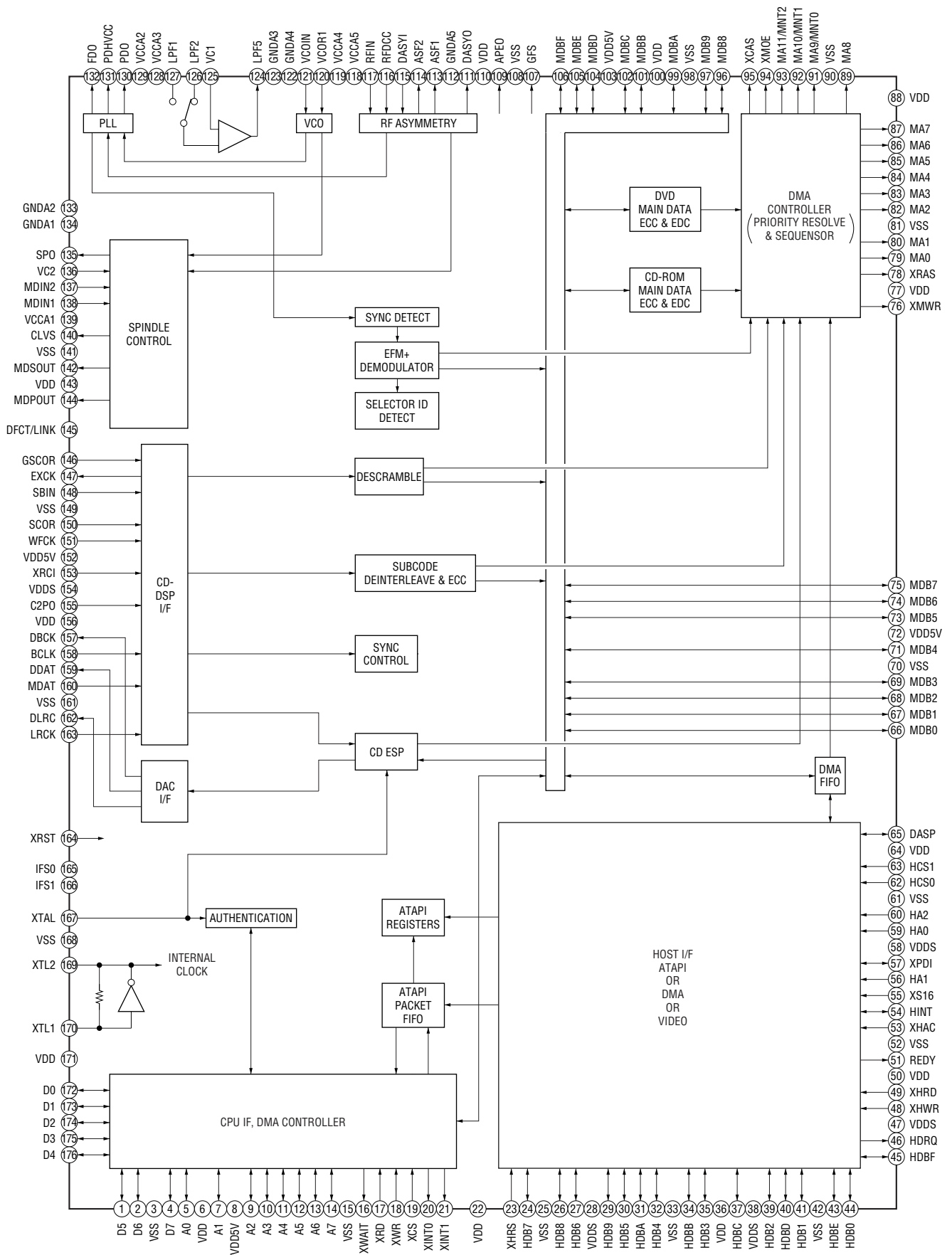
IC304, 305, 306, 307, 308 HD74LV157ATELL (MOTHER Board)



IC509 CXD3008Q (MAIN Board)

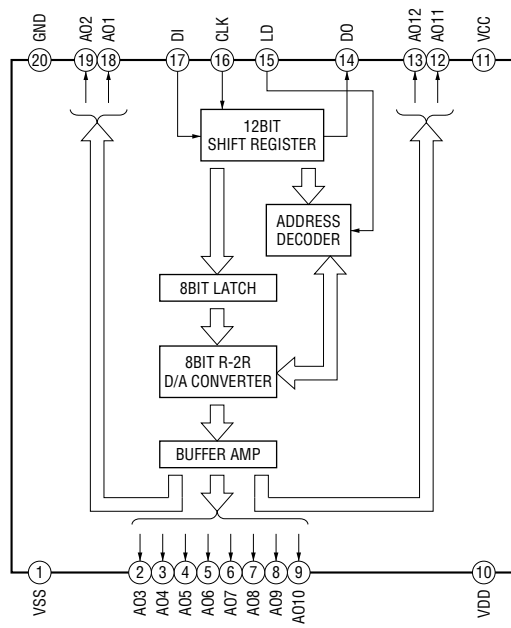


IC701 CXD1882R-1 (MAIN Board)

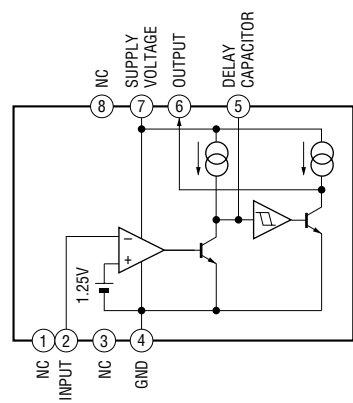


SCD-XA777ES

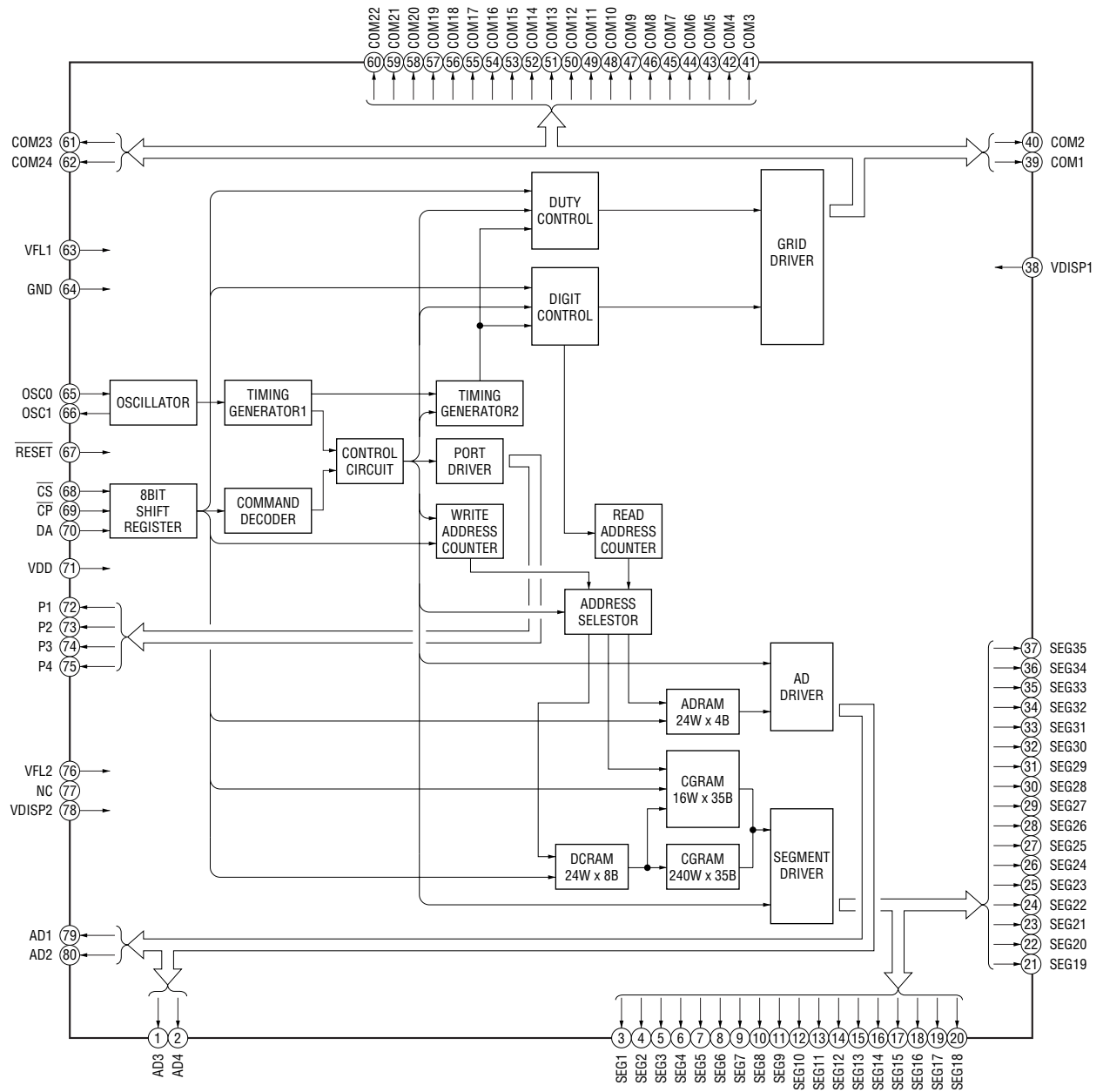
IC904 BU2500FV-E2 (MAIN Board)



IC905 M51957BFP-600C (MAIN Board)



IC1002 MSM9201-03GS-K (PANEL Board)



5-39. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC509 CXD3008Q
(DIGITAL SIGNAL PROCESSOR, DIGITAL SERVO PROCESSOR, DIGITAL FILTER, D/A CONVERTER)

| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|--|
| 1 | DVDD0 | — | Power supply terminal (+3.3V) (digital system) |
| 2 | XRST | I | Reset signal input from the I/O expander (IC902) “L”: reset |
| 3 | MUTE | I | Muting control signal input from the CPU (IC901) “H”: muting |
| 4 | DATA | I | Serial data input from the CPU (IC901) |
| 5 | XLAT | I | Latch signal input from the CPU (IC901) |
| 6 | CLOK | I | Clock signal input from the CPU (IC901) |
| 7 | SENS | O | Internal status (SENSE) signal output to the CPU (IC901) |
| 8 | SCLK | I | Serial data transfer clock input from the CPU (IC901) |
| 9 | ATSK | I | Input pin for anti-shock (fixed at “L”) |
| 10 | WFCK | O | Write frame clock signal output to the SACD decoder (IC701) |
| 11 | XUGF | O | XUGF signal output terminal Not used (open) |
| 12 | XPCK | O | XPCK signal output terminal Not used (open) |
| 13 | GFS | O | Guard frame sync signal output to the CPU (IC901) |
| 14 | C2PO | O | C2 pointer signal output to the SACD decoder (IC701) |
| 15 | SCOR | O | Subcode sync OR signal output to the SACD decoder (IC701) and the CPU (IC901) |
| 16 | C4M | O | 4.2336 MHz clock signal output terminal Not used (open) |
| 17 | WDCK | O | Guard subcode sync OR signal output to the SACD decoder (IC701) |
| 18 | DVSS0 | — | Ground terminal (digital system) |
| 19 | COUT | O | Numbers of track counted signal output to the CPU (IC901) |
| 20 | MIRR | O | Mirror signal output to the CPU (IC901) |
| 21 | DFCT | O | Defect signal output terminal |
| 22 | FOK | O | Focus OK signal output to the CPU (IC901) |
| 23 | PWMI | I | Not used (fixed at “L”) |
| 24 | LOCK | O | GFS is sampled by 460 Hz “H” output when GFS is “H” |
| 25 | MDP | O | Spindle motor (M3) servo drive signal output to the SACD decoder (IC701) |
| 26 | SSTP | I | Detection signal input from limit switch (S1) The optical pick-up is inner position when “H” |
| 27 | FSTO | O | 2/3 divider output terminal Not used (open) |
| 28 | DVDD1 | — | Power supply terminal (+3.3V) (digital system) |
| 29 | SFDR | O | Sled servo drive PWM signal (+) output to the BA5983FP (IC502) |
| 30 | SRDR | O | Sled servo drive PWM signal (-) output to the BA5983FP (IC502) |
| 31 | TFDR | O | Tracking servo drive PWM signal (+) output to the BA5983FP (IC502) |
| 32 | TRDR | O | Tracking servo drive PWM signal (-) output to the BA5983FP (IC502) |
| 33 | FFDR | O | Focus servo drive PWM signal (+) output to the BA5983FP (IC502) |
| 34 | FRDR | O | Focus servo drive PWM signal (-) output to the BA5983FP (IC502) |
| 35 | DVSS1 | — | Ground terminal (digital system) |
| 36 | TEST | I | Input terminal for the test (fixed at “L”) |
| 37 | TES1 | I | Input terminal for the test (fixed at “L”) |
| 38 | VC | I | Middle point voltage (+1.65V) input from the NJM3403AV (IC004) |
| 39 | FE | I | Focus error signal input from the CXD1881R (IC001) |
| 40 | SE | I | Sled error signal input from the CXD1881R (IC001) |
| 41 | TE | I | Tracking error signal input from the CXD1881R (IC001) |
| 42 | CE | I | Chip enable signal input terminal |
| 43 | RFDC | I | Pull in signal input from the CXD1881R (IC001) |
| 44 | ADIO | O | Output terminal for the A/D converter Not used (open) |

| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|--|
| 45 | AVSS0 | — | Ground terminal (analog system) |
| 46 | IGEN | I | Stabilized current input for operational amplifiers |
| 47 | AVDD0 | — | Power supply terminal (+3.3V) (analog system) |
| 48 | ASYO | O | Playback EFM full-swing output terminal |
| 49 | ASYI | I | Playback EFM asymmetry comparator voltage input terminal |
| 50 | RFAC | I | EFM RF signal (AC level) input from the CXD1881R (IC001) |
| 51 | AVSS1 | — | Ground terminal (analog system) |
| 52 | CLTV | I | Internal VCO control voltage input of the EFM playback master PLL |
| 53 | FILO | O | Filter output for master clock of the playback EFM master PLL |
| 54 | FILI | I | Filter input for master clock of the playback EFM master PLL |
| 55 | PCO | O | Phase comparison output for master clock of the playback EFM master PLL |
| 56 | AVDD1 | — | Power supply terminal (+3.3V) (analog system) |
| 57 | BIAS | I | Playback EFM asymmetry circuit constant current input terminal |
| 58 | VCTL | I | Control voltage input terminal for the variable pitch Not used (fixed at “L”) |
| 59 | V16M | O | 16.9344 MHz clock signal output Not used (open) |
| 60 | VPCO | O | PLL charge pump output terminal for the variable pitch Not used (fixed at “L”) |
| 61 | DVDD2 | — | Power supply terminal (+3.3V) (digital system) |
| 62 | ASYE | I | Playback EFM asymmetry circuit on/off selection signal input terminal Not used (fixed at “H”) |
| 63 | MD2 | I | Digital out on/off control signal input from the CPU (IC901) “L”: digital out on, “H”: digital out off |
| 64 | DOUT | O | Digital audio signal output to the DIGITAL (CD) OUT OPTICAL (IC442) |
| 65 | LRCK | O | L/R sampling clock signal (44.1 kHz) output to the digital filter (IC101, 201, 1101, 1201, 2101, 2201), SACD decoder (IC701), and CXD9647R (IC803) |
| 66 | PCMD | O | Serial data output to the digital filter (IC101, 201, 1101, 1201, 2101, 2201), SACD decoder (IC701), and CXD9647R (IC803) |
| 67 | BCLK | O | Bit clock signal (2.8224 MHz) output to the digital filter (IC101, 201, 1101, 1201, 2101, 2201), SACD decoder (IC701), and CXD9647R (IC803) |
| 68 | EMPH | O | Playback disc output terminal in emphasis mode Not used (open) |
| 69 | XTSL | I | Input terminal for the system clock frequency setting Fixed at “H” in this set |
| 70 | DVSS2 | — | Ground terminal (digital system) |
| 71 | XTAI | I | System clock input terminal (33.86688 MHz) |
| 72 | XTAO | O | System clock output terminal (33.86688 MHz) Not used (open) |
| 73 | SOUT | O | Not used (open) |
| 74 | SOCK | O | Not used (open) |
| 75 | XOLT | I | Not used (open) |
| 76 | SQSO | O | Subcode Q data output to the CPU (IC901) |
| 77 | SQCK | I | Subcode Q data reading clock signal input from the CPU (IC901) |
| 78 | SCOR | O | Not used (open) |
| 79 | SBSO | O | Subcode serial data output to the SACD decoder (IC701) |
| 80 | EXCK | I | Subcode serial data reading clock signal input to the SACD decoder (IC701) |

• MAIN BOARD IC701 CXD1882R-1 (SACD DECODER)

| Pin No. | Pin Name | I/O | Description |
|---------|--------------|-----|---|
| 1, 2 | D5, D6 | I/O | Two-way data bus with the CPU (IC901) and I/O expander (IC902) |
| 3 | VSS | — | Ground terminal (digital system) |
| 4 | D7 | I/O | Two-way data bus with the CPU (IC901) and I/O expander (IC902) |
| 5 | A0 | I | Address signal input from the CPU (IC901) |
| 6 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 7 | A1 | I | Address signal input from the CPU (IC901) |
| 8 | VDD5V | — | Power supply terminal (+5V) |
| 9 to 14 | A2 to A7 | I | Address signal input from the CPU (IC901) |
| 15 | VSS | — | Ground terminal (digital system) |
| 16 | XWAIT | O | Wait signal output terminal Not used (open) |
| 17 | XRD | I | Read strobe signal input from the CPU (IC901) |
| 18 | XWR | I | Write strobe signal input from the CPU (IC901) |
| 19 | XCS | I | Chip select signal input from the CPU (IC901) |
| 20, 21 | XINT0, XINT1 | O | Interrupt signal output to the CPU (IC901) |
| 22 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 23 | XHRS | I | Not used (open) |
| 24 | HDB7 | O | Stream data signal output to the DSD decoder (IC801) |
| 25 | VSS | — | Ground terminal (digital system) |
| 26 | HDB8 | O | Error flag signal output to the DSD decoder (IC801) |
| 27 | HDB6 | O | Stream data signal output to the DSD decoder (IC801) |
| 28 | VDDS | — | Power supply terminal (+5V) (digital system) |
| 29 | HDB9 | O | Not used (open) |
| 30 | HDB5 | O | Stream data signal output to the DSD decoder (IC801) |
| 31 | HDBA | O | Not used (open) |
| 32 | HDB4 | O | Stream data signal output to the DSD decoder (IC801) |
| 33 | VSS | — | Ground terminal (digital system) |
| 34 | HDBB | O | Not used (open) |
| 35 | HDB3 | O | Stream data signal output to the DSD decoder (IC801) |
| 36 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 37 | HDBC | O | Not used (open) |
| 38 | VDDS | — | Power supply terminal (+5V) (digital system) |
| 39 | HDB2 | O | Stream data signal output to the DSD decoder (IC801) |
| 40 | HDBD | O | Not used (open) |
| 41 | HDB1 | O | Stream data signal output to the DSD decoder (IC801) |
| 42 | VSS | — | Ground terminal (digital system) |
| 43 | HDBE | O | Not used (open) |
| 44 | HDB0 | O | Stream data signal output to the DSD decoder (IC801) |
| 45 | HDBF | O | Not used (open) |
| 46 | XSAK | O | Serial data effect flag signal output to the DSD decoder (IC801) |
| 47 | VDDS | — | Power supply terminal (+5V) (digital system) |
| 48 | XDCK | O | Serial data transfer clock signal output to the DSD decoder (IC801) |
| 49 | XSHD | O | Header flag signal output to the DSD decoder (IC801) |
| 50 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 51 | REDY | O | Not used (pull up) |
| 52 | VSS | — | Ground terminal (digital system) |
| 53 | XHAC | I | Serial data request signal input from the DSD decoder (IC801) |

| Pin No. | Pin Name | I/O | Description |
|------------|--------------|-----|--|
| 54 | HINT | O | Not used (pull up) |
| 55 | XS16 | O | Not used (pull up) |
| 56 | HA1 | I | Not used (fixed at "H") |
| 57 | XPDI | I/O | Not used (pull up) |
| 58 | VDDS | — | Power supply terminal (+5V) (digital system) |
| 59, 60 | HA0, HA2 | I | Not used (fixed at "H") |
| 61 | VSS | — | Ground terminal (digital system) |
| 62, 63 | HCS0, HCS1 | I | Not used (open) |
| 64 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 65 | DASP | I/O | Not used (pull up) |
| 66 to 69 | MDB0 to MDB3 | I/O | Two-way data bus with the D-RAM (IC706) |
| 70 | VSS | — | Ground terminal (digital system) |
| 71 | MDB4 | I/O | Two-way data bus with the D-RAM (IC706) |
| 72 | VDD5V | — | Power supply terminal (+5V) |
| 73 to 75 | MDB5 to MDB7 | I/O | Two-way data bus with the D-RAM (IC706) |
| 76 | XMWR | O | Write enable signal output to the D-RAM (IC706) |
| 77 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 78 | XRAS | O | Row address strobe signal output to the D-RAM (IC706) |
| 79, 80 | MA0, MA1 | O | Address signal output to the D-RAM (IC706) |
| 81 | VSS | — | Ground terminal (digital system) |
| 82 to 87 | MA2 to MA7 | O | Address signal output to the D-RAM (IC706) |
| 88 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 89 | MA8 | O | Address signal output to the D-RAM (IC706) |
| 90 | VSS | — | Ground terminal (digital system) |
| 91 | MA9/MNT0 | O | Address signal output to the D-RAM (IC706) |
| 92 | MA10/MNT1 | O | RF data signal output terminal Not used (open) |
| 93 | MA11/MNT2 | O | Operation clock signal output for PSP physical disc mark detection Monitor signal output to the CPU (IC901) |
| 94 | XMOE | O | Output enable signal output to the D-RAM (IC706) |
| 95 | XCAS | O | Column address strobe signal output to the D-RAM (IC706) |
| 96, 97 | MDB8, MDB9 | I/O | Two-way data bus with the D-RAM (IC706) |
| 98 | VSS | — | Ground terminal (digital system) |
| 99 | MDBA | I/O | Two-way data bus with the D-RAM (IC706) |
| 100 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 101, 102 | MDBB, MDBC | I/O | Two-way data bus with the D-RAM (IC706) |
| 103 | VDD5V | — | Power supply terminal (+5V) |
| 104 to 106 | MDBD to MDBF | I/O | Two-way data bus with the D-RAM (IC706) |
| 107 | GFS | O | Guard frame sync signal output to the CPU (IC901) |
| 108 | VSS | — | Ground terminal (digital system) |
| 109 | APEO | O | Absolute phase error signal output |
| 110 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 111 | DASYO | O | RF binary signal output |
| 112 | GND A5 | — | Ground terminal (analog system) |
| 113, 114 | ASF1, AFS2 | — | Filter connected terminal for selection the constant asymmetry compensation |
| 115 | DASYI | I | Analog signal input after integrated from the RF binary signal |
| 116 | RFDCC | I | Input terminal for adjusting DC cut high-pass filter for RF signal Not used (open) |
| 117 | RFIN | I | RF signal input from the CXD1881R (IC001) |

| Pin No. | Pin Name | I/O | Description |
|----------|--------------|-----|---|
| 118, 119 | VCCA5, VCCA4 | — | Power supply terminal (+3.3V) (analog system) |
| 120 | VCOR1 | — | VCO oscillating range setting resistor connected terminal |
| 121 | VCOIN | I | VCO input terminal |
| 122, 123 | GND4, GND3 | — | Ground terminal (analog system) |
| 124 | LPF5 | O | Signal output from the operation amplifier from PLL loop filter |
| 125 | VC1 | I | Middle point voltage (+1.65V) input terminal |
| 126, 127 | LPF2, LPF1 | I | Inverted signal input to the operation amplifier from PLL loop filter |
| 128, 129 | VCCA3, VCCA2 | — | Power supply terminal (+3.3V) (analog system) |
| 130 | PDO | O | Signal output from the charge pump for phase comparator |
| 131 | PDHVCC | I | Middle point voltage input terminal for RF PLL |
| 132 | FDO | O | Signal output from the charge pump for frequency comparator |
| 133, 134 | GND2, GND1 | — | Ground terminal (analog system) |
| 135 | SPO | O | Spindle motor (M3) control signal output to the BA5912AFP (IC512) |
| 136 | VC2 | I | Middle point voltage (+1.65V) input terminal |
| 137 | MDIN2 | I | Spindle motor (M3) servo drive signal input from the CXD3008Q (IC509) |
| 138 | MDIN1 | I | MDP input terminal |
| 139 | VCCA1 | — | Power supply terminal (+3.3V) (analog system) |
| 140 | CLVS | O | Control signal output for selection the spindle control filter at CLVS |
| 141 | VSS | — | Ground terminal (digital system) |
| 142 | MDSOUT | O | Frequency error output terminal of internal CLV circuit |
| 143 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 144 | MDPOUT | O | Phase error output terminal of internal CLV circuit |
| 145 | DEFECT | I | Defect signal input terminal Not used (fixed at “L”) |
| 146 | GSCOR | I | Guard subcode sync (S0+S1) detection signal input from the CXD3008Q (IC509) |
| 147 | EXCK | O | Subcode serial data reading clock signal output to the CXD3008Q (IC509) |
| 148 | SBIN | I | Subcode serial data input from the CXD3008Q (IC509) |
| 149 | VSS | — | Ground terminal (digital system) |
| 150 | SCOR | I | Subcode sync (S0+S1) detection signal input from the CXD3008Q (IC509) |
| 151 | WFCK | I | Write frame clock signal input from the CXD3008Q (IC509) |
| 152 | VDD5V | — | Power supply terminal (+5V) |
| 153 | XRCI | I | RAM overflow signal input terminal Not used (fixed at “L”) |
| 154 | VDDS | — | Power supply terminal (+5V) (digital system) |
| 155 | C2PO | I | C2 pointer signal input from the CXD3008Q (IC509) |
| 156 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 157 | DBCK | O | Bit clock signal (2.8224 MHz) output terminal Not used (open) |
| 158 | BCLK | I | Bit clock signal (2.8224 MHz) input from the CXD3008Q (IC509) |
| 159 | DDAT | O | PCM data output terminal Not used (open) |
| 160 | MDAT | I | Serial data input from the CXD3008Q (IC509) |
| 161 | VSS | — | Ground terminal (digital system) |
| 162 | DLRC | O | L/R sampling clock signal (44.1 kHz) output terminal Not used (open) |
| 163 | LRCK | I | L/R sampling clock signal (44.1 kHz) input from the CXD3008Q (IC509) |
| 164 | XRST | I | Reset signal input from the I/O expander (IC902) “L”: reset |
| 165 | IFS0 | I | Interface select signal input terminal Fixed at “L” in this set |
| 166 | IFS1 | I | Interface select signal input terminal Fixed at “H” in this set |
| 167 | XTAL | I | 33.8688 MHz clock signal input terminal |
| 168 | VSS | — | Ground terminal (digital system) |
| 169 | XTA2 | O | System clock output terminal (33.8688 MHz) |

| Pin No. | Pin Name | I/O | Description |
|------------|----------|-----|--|
| 170 | XTA1 | I | System clock input terminal (33.8688 MHz) |
| 171 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 172 to 176 | D0 to D4 | I/O | Two-way data bus with the CPU (IC901) and I/O expander (IC902) |

• MAIN BOARD IC801 CXD2752R (DSD DECODER)

| Pin No. | Pin Name | I/O | Description |
|----------|------------------|-----|---|
| 1 | VSCA0 | — | Ground terminal (for core) |
| 2 | XMSLAT | I | Serial data latch pulse signal input from the CPU (IC901) |
| 3 | MSCK | I | Serial data transfer clock signal input from the CPU (IC901) |
| 4 | MSDATI | I | Serial data input from the CPU (IC901) |
| 5 | VDCA0 | — | Power supply terminal (+2.5V) (for core) |
| 6 | MSDATO | O | Serial data output to the CPU (IC901) |
| 7 | MSREADY | O | Ready signal output to the CPU (IC901) “L”: ready |
| 8 | XMSDOE | O | Serial data output enable signal output terminal Not used (open) |
| 9 | XRST | I | Reset signal input from the I/O expander (IC902) “L”: reset |
| 10 | SMUTE | I | Muting on/off signal input from the CPU (IC901) “H”: muting on |
| 11 | MCKI | I | Master clock signal (33.8688 MHz) input terminal |
| 12 | VSIOA0 | — | Ground terminal (for I/O) |
| 13 | EXCKO1 | O | External clock 1 signal output terminal Not used (open) |
| 14 | EXCKO2 | O | External clock 2 signal output terminal Not used (open) |
| 15 | LRCK | O | L/R sampling clock signal (44.1kHz) output terminal Not used (open) |
| 16 | FRAME | O | Frame signal output terminal Not used (open) |
| 17 | VDIOA0 | — | Power supply terminal (+3.3V) (for I/O) |
| 18 to 21 | MNT0 to MNT3 | O | Monitor signal output terminal Not used (open) |
| 22 to 25 | TESTO | O | Output terminal for the test (normally: open) |
| 26 | TCK | I | Clock signal input terminal for the test (normally: fixed at “L”) |
| 27 | TDI | I | Input terminal for the test (normally: open) |
| 28 | VSCA1 | — | Ground terminal (for core) |
| 29 | TDO | O | Output terminal for the test (normally: open) |
| 30 | TMS | I | Input terminal for the test (normally: open) |
| 31 | TRST | I | Reset terminal for the test (normally: fixed at “L”) |
| 32 to 34 | TEST1 to TEST3 | I | Input terminal for the test (normally: fixed at “L”) |
| 35 | VDCA1 | — | Power supply terminal (+2.5V) (for core) |
| 36 | TESTO | O | Output terminal for the test (normally: open) |
| 37 | XBIT | O | Monitor terminal relative to DST Not used (open) |
| 38 to 41 | SUPDT0 to SUPDT3 | O | Supplementary data output terminal Not used (open) |
| 42 | VSIOA1 | — | Ground terminal (for I/O) |
| 43, 44 | SUPDT4, SUPDT5 | O | Supplementary data output terminal Not used (open) |
| 45 | VDIOA1 | — | Power supply terminal (+3.3V) (for I/O) |
| 46, 47 | SUPDT6, SUPDT7 | O | Supplementary data output terminal Not used (open) |
| 48 | XSUPAK | O | Supplementary data acknowledge signal output terminal Not used (open) |
| 49 | VSCA2 | — | Ground terminal (for core) |
| 50 | TESTO | O | Output terminal for the test (normally: open) |
| 51, 52 | TESTI | I | Input terminal for the test (normally: fixed at “L”) |
| 53 | TESTO | O | Output terminal for the test (normally: open) |
| 54 | VDCA2 | — | Power supply terminal (+2.5V) (for core) |
| 55, 56 | TESTO | O | Output terminal for the test (normally: open) |
| 57 | BCKASL | I | Input/output selection signal input terminal of bit clock signal (2.8224 MHz) for DSD data output “L”: input (slave), “H”: output (master) (fixed at “L” in this set) |
| 58 | VSDSD0 | — | Ground terminal (for DSD data output) |
| 59 | BCKAI | I | Bit clock signal (2.8224 MHz) input for DSD data output from the CXD9647R (IC803) |

| Pin No. | Pin Name | I/O | Description |
|------------|--------------|-----|--|
| 60 | BCKAO | O | Bit clock signal (2.8224 MHz) output terminal for DSD data output Not used (open) |
| 61 | PHREFI | I | Phase reference signal input for DSD output phase modulation from the CXD9647R (IC803) |
| 62 | PHREFO | O | Phase reference signal output terminal for DSD output phase modulation Not used (open) |
| 63 | ZDFL | O | Zero data (front L-ch) flag detection signal output terminal Not used (open) |
| 64 | DSAL | O | DSD data (front L-ch) output to the CXD9647R (IC803) |
| 65 | ZDFR | O | Zero data (front R-ch) flag detection signal output terminal Not used (open) |
| 66 | DSAR | O | DSD data (front R-ch) output to the CXD9647R (IC803) |
| 67 | VDDSD0 | — | Power supply terminal (+3.3V) (For DSD data output) |
| 68 | ZDFC | O | Zero data (center) flag detection signal output terminal Not used (open) |
| 69 | DSAC | O | DSD data (center) output to the CXD9647R (IC803) |
| 70 | ZDFLFE | O | Zero data (sub woofer) flag detection signal output terminal Not used (open) |
| 71 | DSALFE | O | DSD data (sub woofer) output to the CXD9647R (IC803) |
| 72 | VSDSD1 | — | Ground terminal (For DSD data output) |
| 73 | ZDFLS | O | Zero data (surround L-ch) flag detection signal output terminal Not used (open) |
| 74 | DSALS | O | DSD data (surround L-ch) output to the CXD9647R (IC803) |
| 75 | ZDFRS | O | Zero data (surround R-ch) flag detection signal output terminal Not used (open) |
| 76 | DSARS | O | DSD data (surround R-ch) output to the CXD9647R (IC803) |
| 77 | VDDSD1 | — | Power supply terminal (+3.3V) (For DSD data output) |
| 78, 79 | TESTO | O | Output terminal for the test (normally: open) |
| 80 | VSCB0 | — | Ground terminal (for core) |
| 81, 82 | TESTO | O | Output terminal for the test (normally: open) |
| 83 | VDCB0 | — | Power supply terminal (+2.5V) (for core) |
| 84, 85 | TESTO | O | Output terminal for the test (normally: open) |
| 86 | VSI0B0 | — | Ground terminal (for I/O) |
| 87 | TESTO | O | Output terminal for the test (normally: open) |
| 88, 89 | TESTI | I | Input terminal for the test (normally: fixed at "L") |
| 90 | VDIO | — | Power supply terminal (+3.3V) (for I/O) |
| 91 to 93 | TESTO | O | Output terminal for the test (normally: open) |
| 94 | VSCB1 | — | Ground terminal (for core) |
| 95 to 97 | TESTI | I | Input terminal for the test (normally: fixed at "L") |
| 98 | TESTO | O | Output terminal for the test (normally: open) |
| 99 | VDCB1 | — | Power supply terminal (+2.5V) (for core) |
| 100 to 105 | TESTI | I | Input terminal for the test (normally: fixed at "L") |
| 106 | VSI0B1 | — | Ground terminal (for I/O) |
| 107 to 109 | TESTI | I | Input terminal for the test (normally: fixed at "L") |
| 110 | VDIOB1 | — | Power supply terminal (+3.3V) (for I/O) |
| 111 to 114 | WAD0 to WAD3 | I | External A/D data input terminal from the A/D converter for PSP physical disc mark detection Not used (open) |
| 115 | TESTI | I | Input terminal for disc inspection mode from the I/O expander (IC902) |
| 116 | VSCB2 | — | Ground terminal (for core) |
| 117 to 120 | WAD4 to WAD7 | I | External A/D data input terminal from the A/D converter for PSP physical disc mark detection Not used (open) |
| 121 | VDCB2 | — | Power supply terminal (+2.5V) (for core) |
| 122 | TESTI | I | Input terminal for the test (normally: fixed at "L") |
| 123 | WCK | I | Operation clock signal input for PSP physical disc mark detection from the CXD1882R (IC701) |
| 124, 125 | WAVDD0, 1 | — | A/D power supply terminal (+2.5V) (for PSP physical disc mark detection) |

| Pin No. | Pin Name | I/O | Description |
|------------|------------|-----|---|
| 126 | WARFI | I | Analog RF signal input for PSP physical disc mark detection from the CXD1881R (IC001) |
| 127 | WAVRB | I | A/D bottom reference terminal for PSP physical disc mark detection |
| 128, 129 | WAVSS1,0 | — | A/D ground terminal (for PSP physical disc mark detection) |
| 130 | VSIOA2 | — | Ground terminal (for I/O) |
| 131 to 134 | DQ7 to DQ4 | I/O | Two-way data bus with the D-RAM (IC808) |
| 135 | VDIOA2 | — | Power supply terminal (+3.3V) (for I/O) |
| 136 to 139 | DQ3 to DQ0 | I/O | Two-way data bus with the D-RAM (IC808) |
| 140 | VSIOA3 | — | Ground terminal (for I/O) |
| 141 | DCLK | O | Clock signal output to the D-RAM (IC808) |
| 142 | DCKE | O | Clock enable signal output to the D-RAM (IC808) |
| 143 | XWE | O | Write enable signal output to the D-RAM (IC808) |
| 144 | XCAS | O | Column address strobe signal output to the D-RAM (IC808) |
| 145 | XRAS | O | Row address strobe signal output to the D-RAM (IC808) |
| 146 | VDIOA3 | — | Power supply terminal (+3.3V) (for I/O) |
| 147 | TESTO | O | Output terminal for the test (normally: open) |
| 148, 149 | A11, A10 | O | Address signal output to the D-RAM (IC808) |
| 150 | VSCA3 | — | Ground terminal (for core) |
| 151, 152 | A9, A8 | O | Address signal output to the D-RAM (IC808) |
| 153 | VDCA3 | — | Power supply terminal (+2.5V) (for core) |
| 154 to 157 | A7 to A4 | O | Address signal output to the D-RAM (IC808) |
| 158 | VSIOA4 | — | Ground terminal (for I/O) |
| 159 to 162 | A3 to A0 | O | Address signal output to the D-RAM (IC808) |
| 163 | VDIOA4 | — | Power supply terminal (+3.3V) (for I/O) |
| 164 | XSRQ | O | Serial data request signal output to the CXD1882R (IC701) |
| 165 | XSHD | I | Header flag signal input from the CXD1882R (IC701) |
| 166 | SDCK | I | Serial data transfer clock signal input from the CXD1882R (IC701) |
| 167 | XSAK | I | Serial data effect flag signal input from the CXD1882R (IC701) |
| 168 | SDEF | I | Error flag signal input from the CXD1882R (IC701) |
| 169 to 176 | SD0 to SD7 | I | Stream data signal input from the CXD1882R (IC701) |

• MAIN BOARD IC803 CXD9647R (DSD DIGITAL SIGNAL PROCESSOR)

| Pin No. | Pin Name | I/O | Description |
|----------|----------|-----|--|
| 1 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 2 | XMSDOE | O | Serial data output enable signal output terminal Not used (open) |
| 3 | MSREADY | I | Ready signal input from the CPU (IC901) “L”: ready |
| 4 | MSDATO | O | Serial data output to the CPU (IC901) |
| 5 | MSDATI | I | Serial data input from the CPU (IC901) |
| 6 | MSCK | I | Serial data transfer clock signal input from the CPU (IC901) |
| 7 | XMSLAT | I | Serial data latch pulse signal input from the I/O expander (IC902) |
| 8 | GND | — | Ground terminal (digital system) |
| 9 to 16 | TESTO | O | Output terminal for the test (normally: open) |
| 17, 18 | TESTI | I | Input terminal for the test (normally: fixed at “L”) |
| 19 | TESTO | O | Output terminal for the test (normally: open) |
| 20 | GND | — | Ground terminal (digital system) |
| 21 | TESTI | I | Input terminal for the test (normally: fixed at “L”) |
| 22 | GND | — | Ground terminal (digital system) |
| 23 | TESTI | I | Input terminal for the test (normally: fixed at “L”) |
| 24 | TESTO | O | Output terminal for the test (normally: open) |
| 25 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 26 | GND | — | Ground terminal (digital system) |
| 27 | TESTI | I | Input terminal for the test (normally: fixed at “L”) |
| 28 | FS128 | O | Bit clock signal (2.8224 MHz) output for DSD data output to the DSD decoder (IC801) |
| 29 | TEST2 | I | Input terminal for the test (normally: fixed at “L”) |
| 30 | FS64 | O | Phase reference signal output for DSD output phase modulation to the DSD decoder (IC801) |
| 31 | GND | — | Ground terminal (digital system) |
| 32 | DSI1 | I | DSD data (front L-ch) input from the DSD decoder (IC801) |
| 33 | GND | — | Ground terminal (digital system) |
| 34 | DSI2 | I | DSD data (front R-ch) input from the DSD decoder (IC801) |
| 35 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 36 | DSI3 | I | DSD data (center) input from the DSD decoder (IC801) |
| 37 | GND | — | Ground terminal (digital system) |
| 38 | DSI4 | I | DSD data (sub woofer) input from the DSD decoder (IC801) |
| 39 | GND | — | Ground terminal (digital system) |
| 40 | DSI5 | I | DSD data (surround L-ch) input from the DSD decoder (IC801) |
| 41 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 42 | DSI6 | I | DSD data (surround R-ch) input from the DSD decoder (IC801) |
| 43 | GND | — | Ground terminal (digital system) |
| 44 to 46 | TESTO | O | Output terminal for the test (normally: open) |
| 47 | TESTI | I | Input terminal for the test (normally: fixed at “L”) |
| 48 | TESTO | O | Output terminal for the test (normally: open) |
| 49 | TESTI | I | Input terminal for the test (normally: fixed at “L”) |
| 50 | GND | — | Ground terminal (digital system) |
| 51 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 52 | TESTO | O | Output terminal for the test (normally: open) |
| 53 | GND | — | Ground terminal (digital system) |
| 54 | TESTO | O | Output terminal for the test (normally: open) |
| 55 | GND | — | Ground terminal (digital system) |
| 56 | DSAL | O | DSD data (front L-ch) output to the digital filter (IC101, 201, 1101, 1201) |

| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|--|
| 57 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 58 | DSAR | O | DSD data (front R-ch) output to the digital filter (IC101, 201, 1101, 1201) |
| 59 | GND | — | Ground terminal (digital system) |
| 60 | DSALS | O | DSD data (surround L-ch) output to the digital filter (IC1101, 1201) |
| 61 | GND | — | Ground terminal (digital system) |
| 62 | DSARS | O | DSD data (surround R-ch) output to the digital filter (IC1101, 1201) |
| 63 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 64 | DSAC | O | DSD data (center) output to the digital filter (IC2101) |
| 65 | GND | — | Ground terminal (digital system) |
| 66 | DSASW | O | DSD data (sub woofer) output to the digital filter (IC2201) |
| 67 | GND | — | Ground terminal (digital system) |
| 68 | PHREFI | I | Phase reference signal input terminal for DSD output phase modulation |
| 69 | PHREFO | O | Phase reference signal output terminal for DSD output phase modulation |
| 70 | BCKASL | I | Input/output selection signal input terminal of bit clock signal (2.8224 MHz) for DSD data output “L”: input (slave), “H”: output (master) (fixed at “L” in this set) |
| 71 | BCKAO | O | Bit clock signal (2.8224 MHz) output terminal for DSD data output Not used (open) |
| 72 | BCKAI | I | Bit clock signal (2.8224 MHz) input terminal for DSD data output Not used |
| 73, 74 | TESTO | O | Output terminal for the test Not used |
| 75 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 76 | GND | — | Ground terminal (digital system) |
| 77 | TESTI | I | Input terminal for the test Not used |
| 78 | A2 | I | Clock signal input terminal |
| 79 | XBSL2 | I | HD mode selection signal input from the I/O expander (IC902) |
| 80 | TESTI | I | Input terminal for the test Not used |
| 81 | A1 | I | Clock signal input terminal |
| 82 | XABSL1 | I | HD mode selection signal input from the I/O expander (IC902) |
| 83, 84 | TESTO | O | Output terminal for the test Not used |
| 85 | DVCKI | I | 11.2896 MHz clock signal input terminal |
| 86 | TESTI | I | Input terminal for the test Not used |
| 87 | GND | — | Ground terminal (digital system) |
| 88 | MCKI | I | Master clock signal (33.8688 MHz) input terminal |
| 89 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 90 | LRCK | O | L/R sampling clock signal (44.1kHz) output to the digital filter (IC101, 201, 1101, 1201, 2101, 2201) |
| 91 | CDDATAR | O | Serial data output to the digital filter (IC101, 201, 1101, 1201, 2101, 2201) |
| 92 | CDDATAL | O | Serial data output to the digital filter (IC101, 201, 1101, 1201, 2101, 2201) |
| 93 | CDDATASL | I | CD mode selection signal input from the I/O expander (IC902) |
| 94 | BCKI | I | Bit clock signal (2.8224 MHz) input from the CXD3008Q (IC509) |
| 95 | LRCKI | I | L/R sampling clock signal (44.1 kHz) input from the CXD3008Q (IC509) |
| 96 | CDDATAI | I | Serial data input from the CXD3008Q (IC509) |
| 97 | TESTI | I | Input terminal for the test (normally: fixed at “L”) |
| 98 | SMUTE | I | Muting on/off signal input from the CPU (IC901) “H”: muting on |
| 99 | XRST | I | Reset signal input from the I/O expander (IC902) “L”: reset |
| 100 | GND | — | Ground terminal (digital system) |

• MAIN BOARD IC901 CXP973F064R-1 (CPU)

| Pin No. | Pin Name | I/O | Description |
|----------|-----------|-----|---|
| 1 | MODE DF | O | SACD/CD mode selection signal output to the data selector (IC304, 306, 307, 308) “L”: CD mode, “H”: SACD mode |
| 2 | AMUTE | O | Muting on/off signal output to the analog line circuit “L”: muting on |
| 3 | DOCTRL | O | Digital out on/off control signal output to the CXD3008Q (IC509) “L”: digital out off, “H”: digital out on |
| 4 | LAT DAC | O | Serial data latch pulse signal output to the D/A converter (IC904) |
| 5 | DATA DAC | O | Serial data output to the D/A converter (IC904) |
| 6 | CLK DAC | O | Serial data transfer clock signal output to the D/A converter (IC904) |
| 7 | FCS JMP 4 | O | Focus jump 1 signal output to the BA5983FP (IC502) |
| 8 | FCS JMP 3 | O | Focus jump 2 signal output to the BA5983FP (IC502) |
| 9 | SENS CD | I | Internal status (SENSE) signal input from the CXD3008Q (IC509) |
| 10 | XCS2 | O | Chip select signal output to the D-RAM Not used (pull up) |
| 11 | XCS IO | O | Chip select signal output to the I/O expander (IC902) |
| 12 | XCS DVD | O | Chip select signal output to the CXD1882R (IC701) |
| 13 | VSS | — | Ground terminal (digital system) |
| 14 to 21 | D0 to D7 | I/O | Two-way data bus with the CXD1882R (IC701) and I/O expander (IC902) |
| 22 | INT0 DVD | I | Interrupt signal input from the CXD1882R (IC701) |
| 23 | INT1 DVD | I | Interrupt signal input from the CXD1882R (IC701) |
| 24 | T SENS | I | Disc tray status detection signal input from the table sensor Not used |
| 25 | MON DVD | I | Monitor signal input terminal Not used (open) |
| 26 | DATA CD | O | Serial data output to the CXD3008Q (IC509) |
| 27 | XLAT CD | O | Serial data latch pulse signal output to the CXD3008Q (IC509) |
| 28 | A1IN | I | Sircs remote control signal input of the CONTROL A1II Not used |
| 29 | COUT CD | I | Numbers of track counted signal input from the CXD3008Q (IC509) |
| 30 | IN SW | I | Loading in switch (S001) input terminal “L”: loading in |
| 31 | OUT SW | I | Loading out switch (S002) input terminal “L”: loading out |
| 32 | MIRR | I | Mirror signal input from the CXD3008Q (IC509) |
| 33 | SUBQ | I | Subcode Q data input from the CXD3008Q (IC509) |
| 34 | SCOR | I | Subcode sync (S0+S1) detection signal input from the CXD3008Q (IC509) |
| 35 | SQCLK | O | Subcode Q data reading clock signal output to the CXD3008Q (IC509) |
| 36 | NC | — | Not used (open) |
| 37 | CLOK CD | O | Serial data transfer clock signal output to the CXD3008Q (IC509) |
| 38 | XRST | I | System reset signal input from the reset signal generator (IC905) “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H” |
| 39 | VSS | — | Ground terminal (digital system) |
| 40 | XTAL | I | System clock input terminal (20 MHz) |
| 41 | EXTAL | O | System clock output terminal (20 MHz) |
| 42 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 43 | LD ON | O | Laser diode on/off control signal output to the CXD1881R (IC001) “L”: laser diode off, “H”: laser diode on |
| 44 | XDIS IO | O | Reset signal output to the I/O expander (IC902) “L”: reset |
| 45 | MUTE DSD | O | Muting on/off signal output to the DSD decoder (IC801) and CXD9647R (IC803) “H”: muting on |
| 46 | XMSLAT | O | Serial data latch pulse signal output to the DSD decoder (IC801) |
| 47 | READY DSD | I | Ready signal input from the DSD decoder (IC801) and CXD9647R (IC803) “L”: ready |
| 48 | SDIN DSD | I | Serial data input from the DSD decoder (IC801) and CXD9647R (IC803) |

| Pin No. | Pin Name | I/O | Description |
|----------|-----------|-----|--|
| 49 | SOUT DSD | O | Serial data output to the DSD decoder (IC801) and CXD9647R (IC803) |
| 50 | SCK DSD | O | Serial data transfer clock signal output to the DSD decoder (IC801) and CXD9647R (IC803) |
| 51 | BUSY DP | I | Busy signal input to the display controller (IC1001) |
| 52 | SD IN | I | Serial data input to the display controller (IC1001) |
| 53 | SDOUT | O | Serial data output to the display controller (IC1001) |
| 54 | SLK | O | Serial data transfer clock signal output to the display controller (IC1001) |
| 55 | VSS | — | Ground terminal (digital system) |
| 56 | REQ | O | Request signal output to the display controller (IC1001) |
| 57 | FCS BST | O | Focus boost signal output terminal Not used (open) |
| 58 | GFS DVD | I | Guard frame sync signal input from the CXD1882R (IC701) |
| 59 | MUTE CD | O | Muting on/off control signal output to the CXD3008Q (IC509) “L”: muting on |
| 60 | MUTE 2D | O | Muting on/off control signal output to the BA5983FP (IC502) “L”: muting on |
| 61 | MUTE LOAD | O | Muting on/off control signal output to the BA5912AFP (IC512) “L”: muting on |
| 62 | FG | I | Frequency generator signal input from the BA5983FP (IC502) |
| 63 | SP ON | O | Muting on/off control signal output to the BA5912AFP (IC512) “L”: muting on |
| 64 | JIT | I | Jitter signal input terminal |
| 65 | TE | I | Tracking error signal input from the CXD1881R (IC001) |
| 66 | PI | I | Pull in signal input from the CXD1881R (IC001) |
| 67 | FE | I | Focus error signal input from the CXD1881R (IC001) |
| 68 | AVSS | — | Ground terminal (for A/D converter) |
| 69 | AVREF | I | Reference voltage input terminal (for A/D converter) |
| 70 | AVDD | — | Power supply terminal (+3.3V) (for A/D converter) |
| 71 | GFS CD | I | Guard frame sync signal input from the CXD3008Q (IC509) |
| 72 | SCLK CD | O | SENSE serial data reading clock signal output to the CXD3008Q (IC509) |
| 73 | NC | — | Not used (open) |
| 74 | FOK CD | I | Focus OK signal input from the CXD3068Q (IC509) |
| 75 | LOCK CD | I | GFS is sampled by 460 Hz “H” input when GFS is “H” |
| 76 | RF AD CE | O | Chip enable signal output to the A/D converter Not used |
| 77 | SP DW | O | Serial data transfer clock signal output to the CXD1881R (IC001) |
| 78 | EEPSIO | I/O | Two-way data bus with the EEPROM (IC903) |
| 79 | EEPSCL | O | Clock signal output to the EEPROM (IC903) |
| 80 | RXD | I | Serial data input from the RS-232C (for check) |
| 81 | TXD | O | Serial data output to the RS-232C (for check) |
| 82 | SDCLK RF | O | Clock signal output to the CXD1881R (IC001) |
| 83 | SDATA RF | I/O | Two-way data bus with the CXD1881R (IC001) |
| 84 | XWR | O | Write strobe signal output to the CXD1882R (IC701) and I/O expander (IC902) |
| 85 | XRD | O | Read strobe signal output to the CXD1882R (IC701) and I/O expander (IC902) |
| 86 | PWE | I | Control signal input from the RS-232C (for check) |
| 87 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 88 | VSS | — | Ground terminal (digital system) |
| 89 to 91 | A0 to A2 | O | Address signal output to the CXD1882R (IC701) and I/O expander (IC902) |
| 92 to 96 | A3 to A7 | O | Address signal output to the CXD1882R (IC701) |
| 97 | INIT DF | O | Initial signal output to the digital filter (IC101, 201, 1101, 1201, 2101, 2201) |
| 98 | LATCH DF | O | Latch signal output to the digital filter (IC101, 201, 1101, 1201, 2101, 2201) |
| 99 | SHIFT DF | O | Shift signal output to the digital filter (IC101, 201, 1101, 1201, 2101, 2201) |
| 100 | SCDATA DF | O | Serial data output to the digital filter (IC101, 201, 1101, 1201, 2101, 2201) |

• MAIN BOARD IC902 CXD1095BR (I/O EXPANDER)

| Pin No. | Pin Name | I/O | Description |
|----------|----------|-----|---|
| 1 | LIM SW | I | Detection signal input from limit in switch (S1) The optical pick-up is inner position when "H" |
| 2 | WISE | I | Direction of rotation signal input terminal Not used (open) |
| 3 | F COML | I | Focus jump L signal input terminal Not used (open) |
| 4 | SPCNTL1 | O | Spindle motor control signal 1 input terminal Not used (open) |
| 5 | SPCNTL0 | I | Spindle motor control signal 2 input terminal Not used (open) |
| 6 | TBLL | O | Table motor drive signal (counterclockwise direction) output terminal Not used |
| 7 | TBLR | O | Table motor drive signal (clockwise direction) output terminal Not used |
| 8 | VSS | — | Ground terminal (digital system) |
| 9 | REM CODE | — | Not used (open) |
| 10 | D SENS | I | Disc status detection signal input from the disc sensor Not used |
| 11, 12 | S1, S2 | I | Disc tray position detection signal input from the table address detect Not used |
| 13 | LOAD OUT | O | Loading motor drive signal (loading out direction) output to the BA5912AFP (IC512) |
| 14 | SDCNTL | — | Not used (open) |
| 15 | LOAD IN | O | Loading motor drive signal (loading in direction) output to the BA5912AFP (IC512) |
| 16 | A1OUT | O | Sircs remote control signal output of the CONTROL AIII Not used |
| 17 | NC | — | Not used (open) |
| 18 | RST DSD | O | Reset signal output to the DSD decoder (IC801) and CXD9647R (IC803) "L": reset |
| 19 | RST DP | O | Reset signal output to the display controller (IC1001) "L": reset |
| 20 | RST DVD | O | Reset signal output to the CXD1882R (IC701) "L": reset |
| 21 | RST CD | O | Reset signal output to the CXD3008Q (IC509) "L": reset |
| 22 | VMOD | O | Power on/off control signal output for modulation circuit on optical pick-up block "L": power off, "H": power on |
| 23 | VSS | — | Ground terminal (digital system) |
| 24 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 25 | MULTI | O | Multi/2ch selection signal output terminal "L": 2ch, "H": multi |
| 26 | SDEN | O | Serial data enable signal output to CXD1881R (IC001) |
| 27 | ISBTEST | O | Output terminal for disc inspection mode to DSD decoder (IC801) |
| 28 to 30 | D0 to D2 | I/O | Two-way data bus with the CXD1882R (IC701) and CPU (IC901) |
| 31, 32 | NC | — | Not used (open) |
| 33 to 37 | D3 to D7 | I/O | Two-way data bus with the CXD1882R (IC701) and CPU (IC901) |
| 38 | XCLR | I | Clear signal input terminal Not used (fixed at "H") |
| 39 | XDIS | I | Reset signal input from the CPU (IC901) "L": reset |
| 40 | VSS | — | Ground terminal (digital system) |
| 41 | XWR | I | Write strobe signal input from the CPU (IC901) |
| 42 | XRD | I | Read strobe signal input from the CPU (IC901) |
| 43 | XCS | I | Chip select signal input from the CPU (IC901) |
| 44 to 46 | A0 to A2 | I | Address signal input from the CPU (IC901) |
| 47 | SWGUP | O | Sub woofer gain up control signal output terminal "H": gain up |
| 48 | PE1 | — | Not used (open) |
| 49 | NC | — | Not used (open) |
| 50 | TRKFIL | — | Not used (open) |
| 51 | XDAC333 | O | CD mode selection signal output to the CXD9647R (IC803) |
| 52 | DFCTEN | O | Defect signal output terminal Not used |
| 53 | XZLAT | O | Serial data latch pulse signal output to the CXD9647R (IC803) |

SCD-XA777ES

| Pin No. | Pin Name | I/O | Description |
|---------|-----------|-----|--|
| 54 | MRSEL1 | O | SACD/CD mode selection signal output terminal Not used |
| 55 | VSS | — | Ground terminal (digital system) |
| 56 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 57 | AGING ERR | O | Not used (open) |
| 58 | PA4 | — | Not used (open) |
| 59 | OUT SW | I | Disc tray open/close detection switch input terminal “L”: disc tray open, “H”: disc trat close Not used |
| 60, 61 | PA6, PA7 | — | Not used (open) |
| 62 | F COMH | I | Focus jump H signal input terminal |
| 63, 64 | NC | — | Not used (open) |

SECTION 6 EXPLODED VIEWS

NOTE:

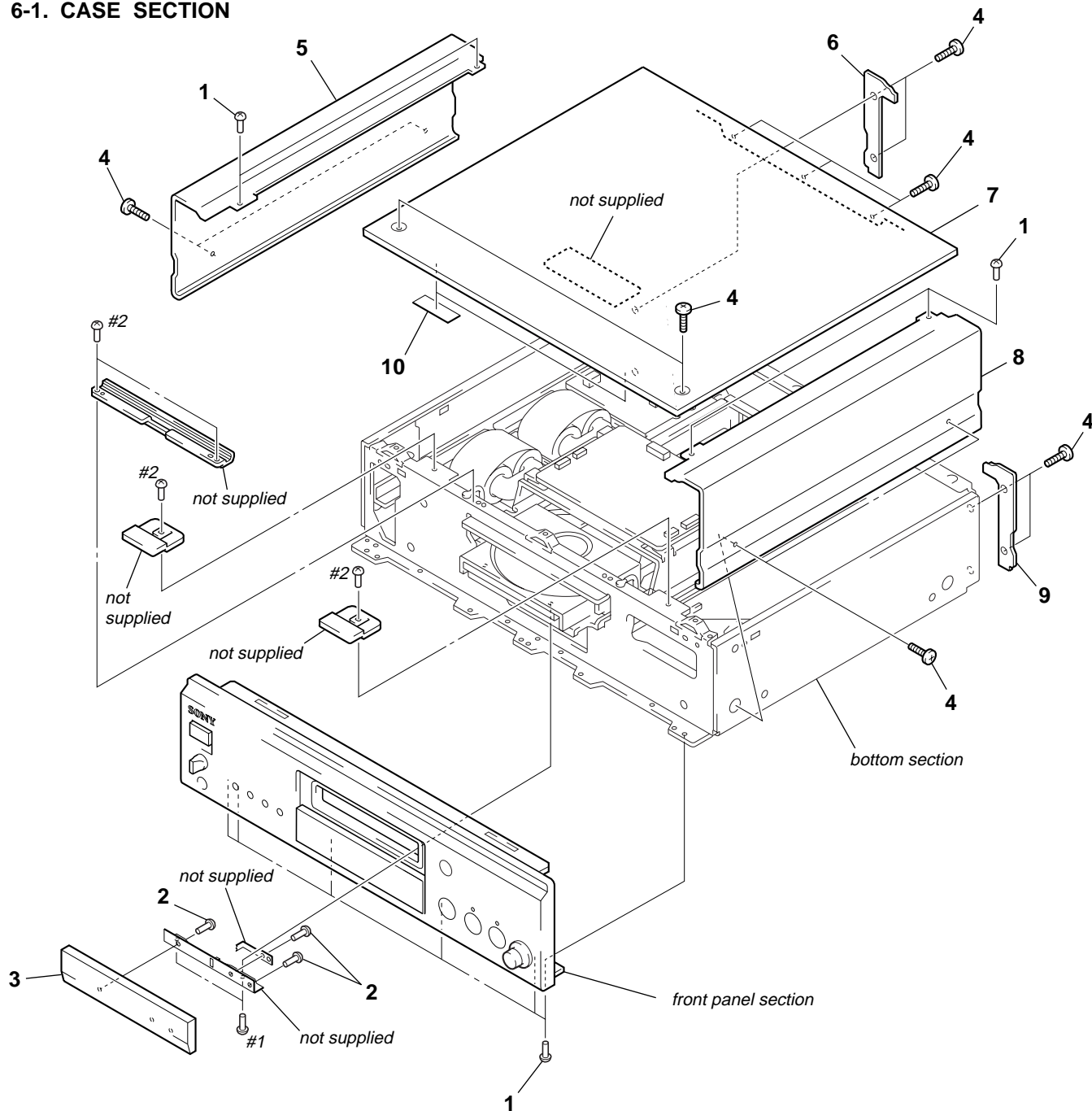
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)
 ↑ ↑
 Parts Color Cabinet's Color

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

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

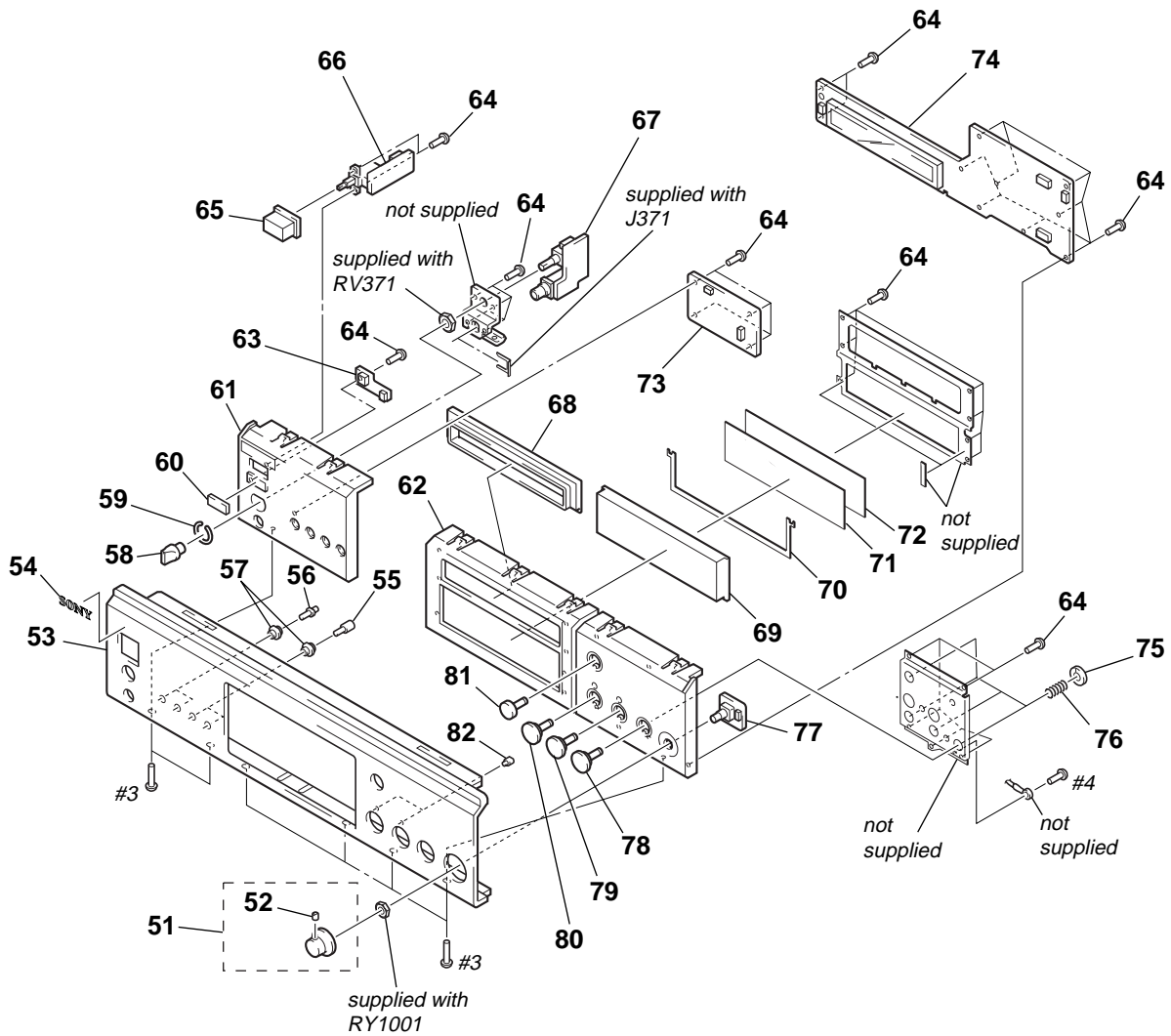
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CASE SECTION



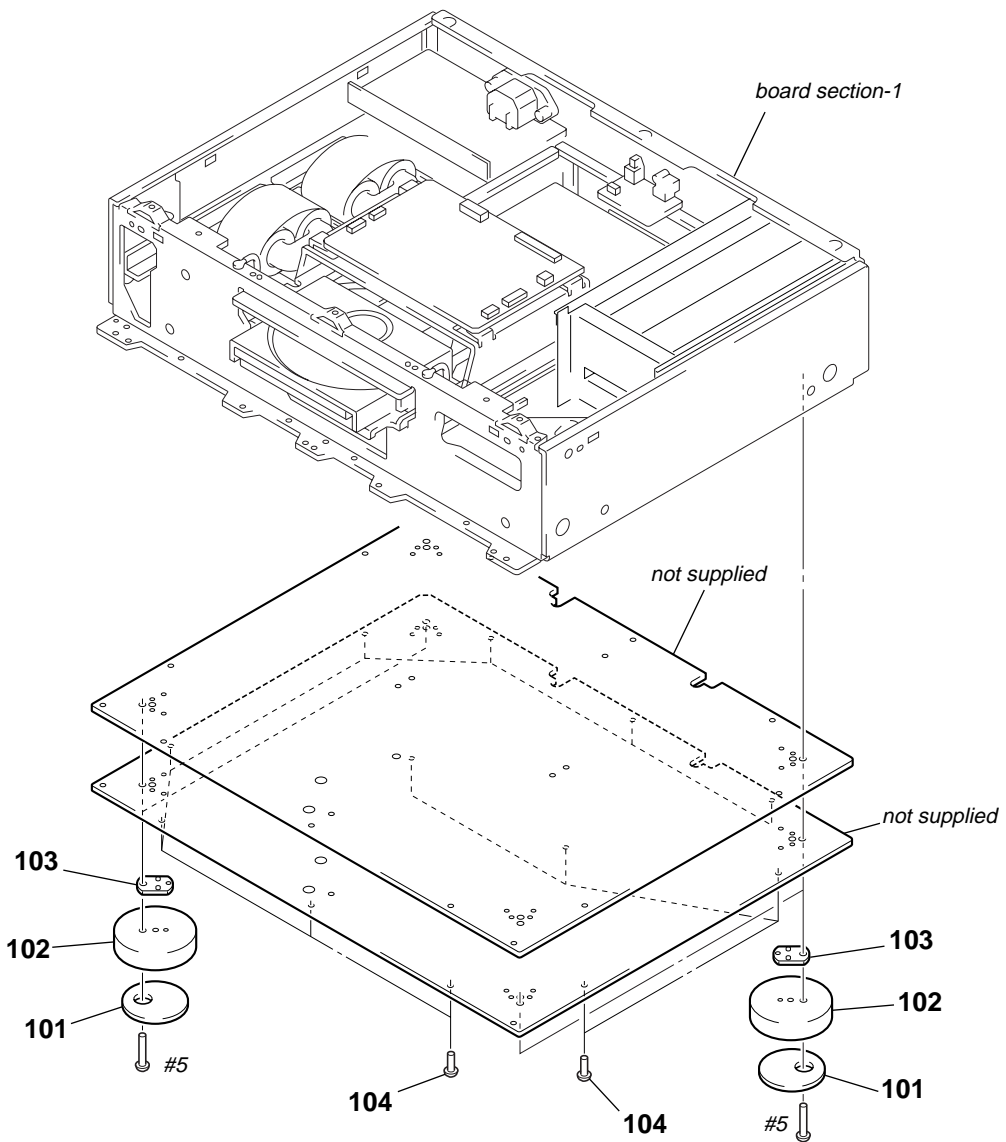
| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-----------------------------------|--------|----------|--------------|------------------------------------|--------|
| 1 | 4-929-074-01 | SCREW (3X8) | | 6 | 4-235-635-11 | PLATE (SIDE-L), ORNAMENTAL (BLACK) | |
| 2 | 4-951-620-01 | SCREW (2.6X8), +BVTP | | 7 | 4-235-616-01 | CASE (TOP) (GOLD) | |
| 3 | X-4953-972-1 | PANEL ASSY, LOADING (GOLD) | | 7 | 4-235-616-11 | CASE (TOP) (BLACK) | |
| 3 | X-4953-973-1 | PANEL ASSY, LOADING (BLACK) | | 8 | 4-235-618-01 | PLATE (RIGHT), SIDE (GOLD) | |
| 4 | 4-227-843-01 | SCREW (TP), FLAT HEAD (BLACK) | | 8 | 4-235-618-11 | PLATE (RIGHT), SIDE (BLACK) | |
| 4 | 4-227-843-31 | SCREW (TP), FLAT HEAD (GOLD) | | 9 | 4-235-636-01 | PLATE (SIDE-R), ORNAMENTAL (GOLD) | |
| 5 | 4-235-617-01 | PLATE (LEFT), SIDE (GOLD) | | 9 | 4-235-636-11 | PLATE (SIDE-R), ORNAMENTAL (BLACK) | |
| 5 | 4-235-617-11 | PLATE (LEFT), SIDE (BLACK) | | * | 10 | 4-615-354-01 | SPACER |
| 6 | 4-235-635-01 | PLATE (SIDE-L), ORNAMENTAL (GOLD) | | | | | |

6-2. FRONT PANEL SECTION



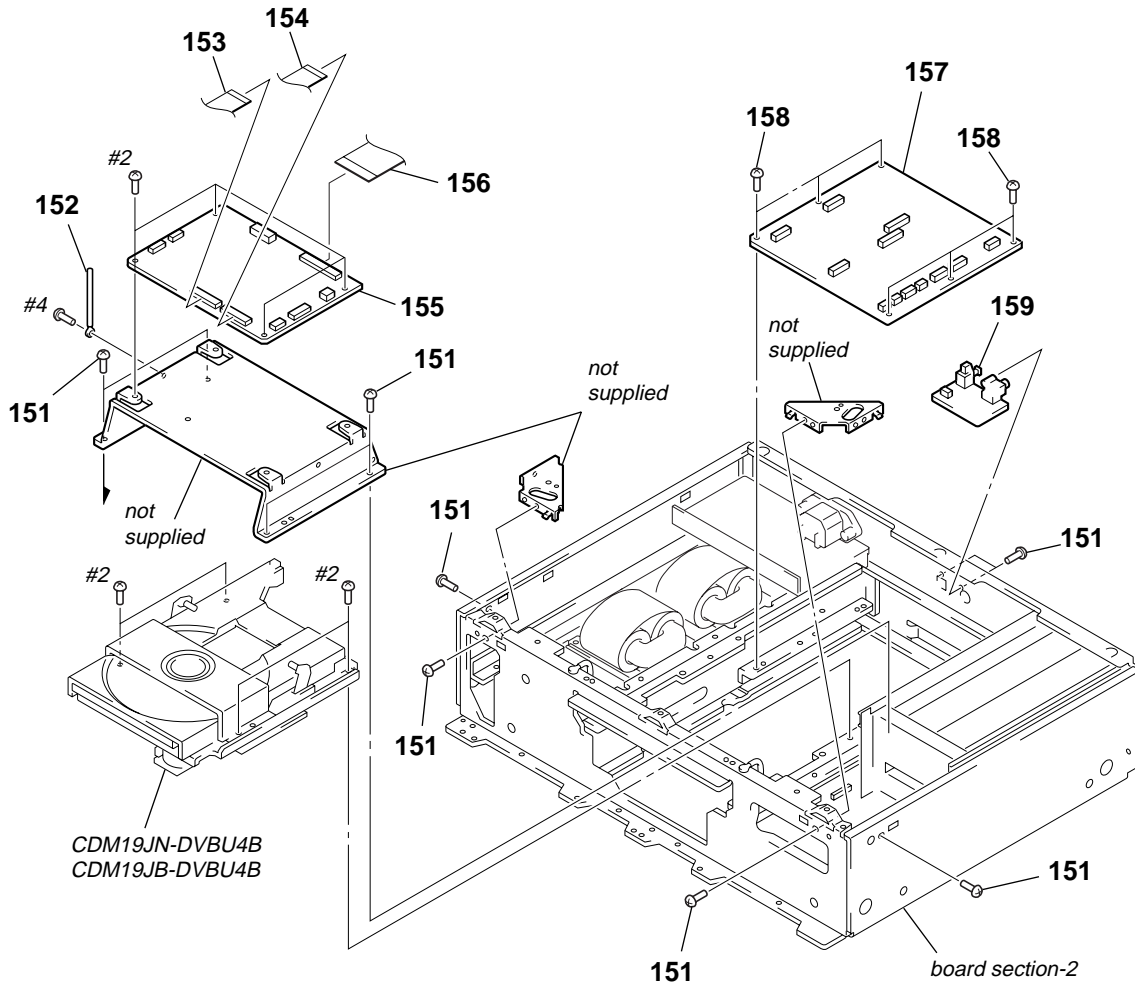
| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------------------------|--------|----------|--------------|--|--------|
| 51 | 4-235-710-01 | KNOB (AMS) (GOLD) | | 66 | 1-682-056-11 | AC SW BOARD | |
| 51 | 4-235-710-11 | KNOB (AMS) (BLACK) | | 67 | A-4726-342-A | HP BOARD, COMPLETE | |
| 52 | 3-701-506-01 | SET SCREW, DOUBLE POINT 3X4 | | 68 | 4-235-619-01 | PACKING (LOADING) | |
| 53 | 4-235-597-01 | PANEL, FRONT (GOLD) | | 69 | 4-235-621-01 | PLATE, INDICATION | |
| 53 | 4-235-597-11 | PANEL, FRONT (US, Canadian) | | 70 | 4-235-623-01 | PLATE (SPACER), INDICATION | |
| 53 | 4-235-597-21 | PANEL, FRONT (AEP: BLACK) | | 71 | 4-235-622-01 | PLATE (HALF MIRROR), INDICATION (GOLD) | |
| 54 | 4-942-568-41 | EMBLEM (NO.5), SONY (BLACK) | | 71 | 4-235-625-01 | PLATE (FILTER 2), INDICATION (BLACK) | |
| 55 | 4-230-635-01 | BUTTON (PLAY MODE) | | 72 | 4-235-624-01 | PLATE (FILTER), INDICATION | |
| 56 | 4-220-317-01 | BUTTON (FILTER) | | 73 | A-4726-339-A | KEY BOARD, COMPLETE | |
| 57 | 4-220-711-01 | INDICATOR (FILTER) | | 74 | A-4726-338-A | PANEL BOARD, COMPLETE | |
| 58 | 4-221-262-01 | KNOB (VOL) (GOLD) | | 75 | 4-862-338-00 | RING, STOPPER | |
| 58 | 4-221-262-11 | KNOB (VOL) (BLACK) | | 76 | 4-235-633-01 | SPRING (BUTTON PLAY) | |
| 59 | 3-354-981-01 | SPRING (SUS), RING | | 77 | 1-682-055-11 | JOG BOARD | |
| 60 | 4-230-636-01 | PLATE (REMOTE), INDICATION (GOLD) | | 78 | X-4953-978-1 | BUTTON (STOP) ASSY (GOLD) | |
| 60 | 4-230-636-11 | PLATE (ROMOTE), INDICATION (BLACK) | | 78 | X-4953-979-1 | BUTTON (STOP) ASSY (BLACK) | |
| 61 | 4-235-598-01 | BASE (L), PANEL (GOLD) | | 79 | X-4953-976-1 | BUTTON (PAUSE) ASSY (GOLD) | |
| 61 | 4-235-598-11 | BASE (L), PANEL (BLACK) | | 79 | X-4953-977-1 | BUTTON (PAUSE) ASSY (BLACK) | |
| 62 | 4-235-599-01 | BASE (R), PANEL (GOLD) | | 80 | X-4953-974-1 | BUTTON (PLAY) ASSY (GOLD) | |
| 62 | 4-235-599-11 | BASE (R), PANEL (BLACK) | | 80 | X-4953-975-1 | BUTTON (PLAY) ASSY (BLACK) | |
| 63 | 1-682-058-11 | R.CNTL BOARD | | 81 | X-4953-980-1 | BUTTON (OPN/CLS) ASSY (GOLD) | |
| 64 | 4-951-620-01 | SCREW (2.6X8), +BVTP | | 81 | X-4953-981-1 | BUTTON (OPN/CLS) ASSY (BLACK) | |
| 65 | 4-923-520-01 | KNOB, POWER (BLACK) | | 82 | 4-230-638-01 | INDICATOR (BUTTON PLAY) | |
| 65 | 4-923-520-61 | KNOB, POWER (GOLD) | | | | | |

6-3. BOTTOM SECTION



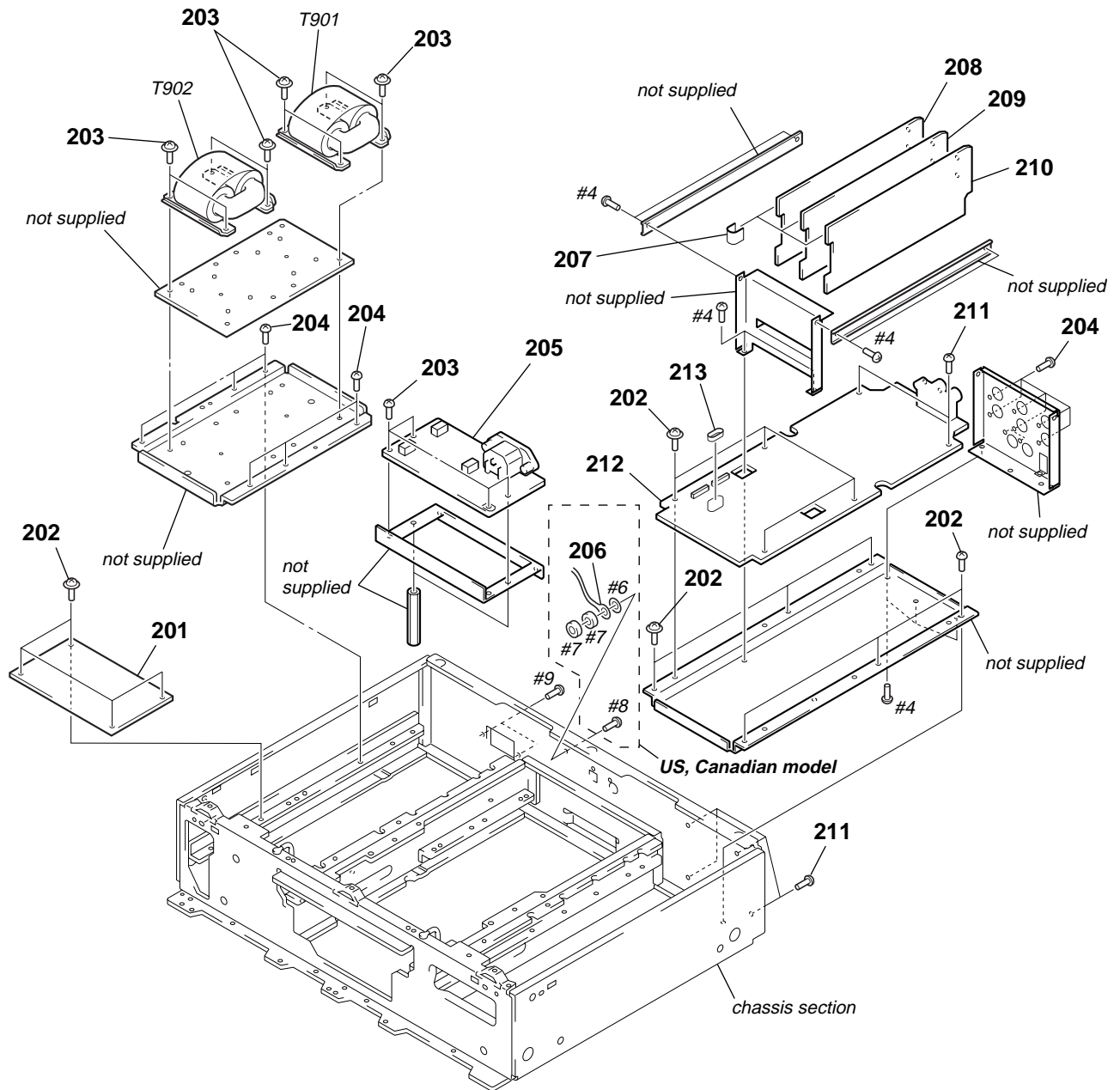
| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------------|--------|----------|--------------|------------------|--------|
| 101 | 4-970-124-11 | CUSHION (F50180S) | | 103 | 4-970-488-01 | SPACER (F50180S) | |
| 102 | 4-970-487-01 | FOOT (F50180S) | | 104 | 4-929-074-01 | SCREW (3X8) | |

6-4. BOARD SECTION-1



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|----------------------------|--------|----------|--------------|--|--------|
| 151 | 4-929-074-01 | SCREW (3X8) | | 156 | 1-757-098-11 | WIRE (FLAT TYPE) (35 CORE) | |
| 152 | 3-701-822-01 | HOLDER, WIRE | | 157 | A-4726-334-A | A-POWER BOARD, COMPLETE (AEP) | |
| 153 | 1-757-932-11 | WIRE (FLAT TYPE) (19 CORE) | | 157 | A-4727-529-A | A-POWER BOARD, COMPLETE (US, Canadian) | |
| 154 | 1-757-931-11 | WIRE (FLAT TYPE) (19 CORE) | | 158 | X-4908-910-1 | SCREW ASSY (+ BVTT) | |
| 155 | A-4726-087-A | MAIN BOARD, COMPLETE | | 159 | A-4726-337-A | D.OUT BOARD, COMPLETE | |

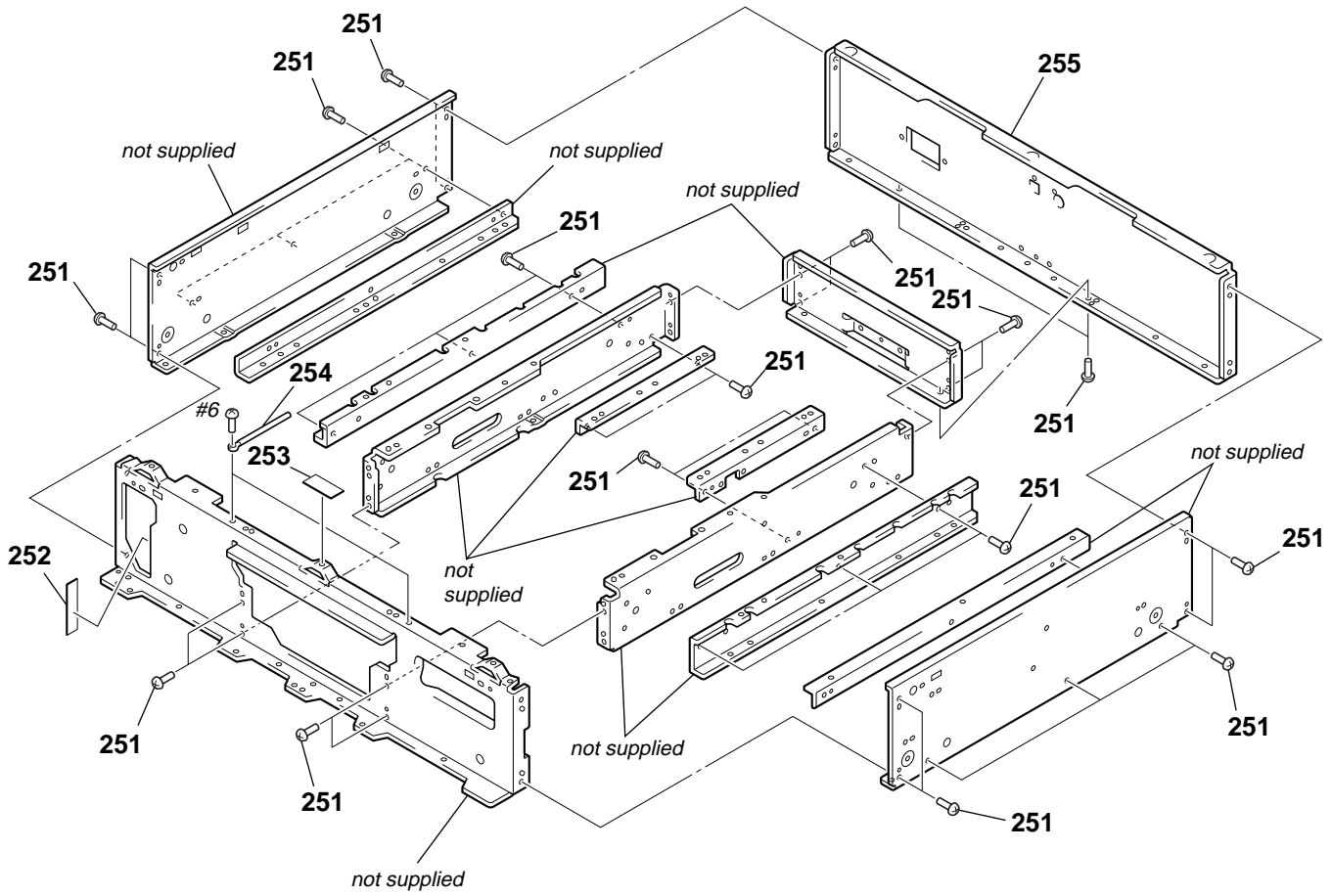
6-5. BOARD SECTION-2



| | |
|---|---|
| <p>The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.</p> | <p>Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p> |
|---|---|

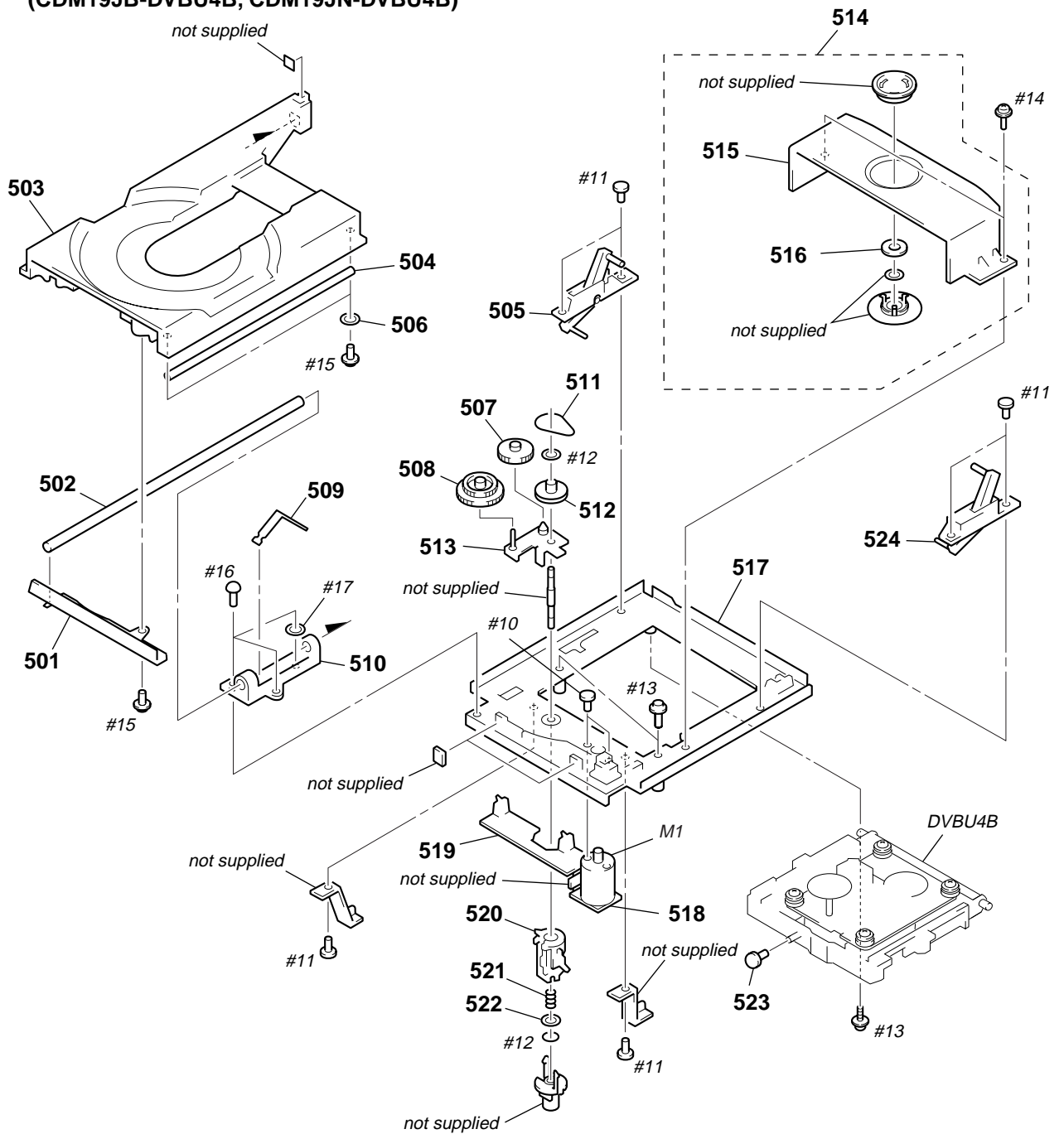
| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------------------------|--------|---------------|--------------|---------------------------------------|--------|
| 201 | A-4726-335-A | D-POWER BOARD, COMPLETE | | 210 | A-4726-330-A | AUDIO FRONT BOARD, COMPLETE | |
| 202 | X-4908-910-1 | SCREW ASSY (+ BVTT) | | 211 | 3-703-685-21 | SCREW (+BV 3X8) | |
| 203 | 3-703-249-21 | SCREW, S TIGHT, +PTTWH (M3X8) | | 212 | A-4726-333-A | MOTHER BOARD, COMPLETE (AEP) | |
| 204 | 4-929-074-01 | SCREW (3X8) | | 212 | A-4727-528-A | MOTHER BOARD, COMPLETE (US, Canadian) | |
| 205 | A-4726-336-A | AC BOARD, COMPLETE | | 213 | 4-211-300-01 | RING, RUBBER | |
| 206 | 1-555-724-00 | WIRE, GROUND (US, Canadian) | | Δ T901 | 1-437-420-11 | TRANSFORMER, POWER (AEP) | |
| 207 | 3-384-102-21 | CUSHION (LCD) | | Δ T901 | 1-437-422-11 | TRANSFORMER, POWER (US, Canadian) | |
| 208 | A-4726-332-A | AUDIO C/SW BOARD, COMPLETE | | Δ T902 | 1-437-421-11 | TRANSFORMER, POWER (AEP) | |
| 209 | A-4726-331-A | AUDIO SURR BOARD, COMPLETE | | Δ T902 | 1-437-423-11 | TRANSFORMER, POWER (US, Canadian) | |

6-6. CHASSIS SECTION



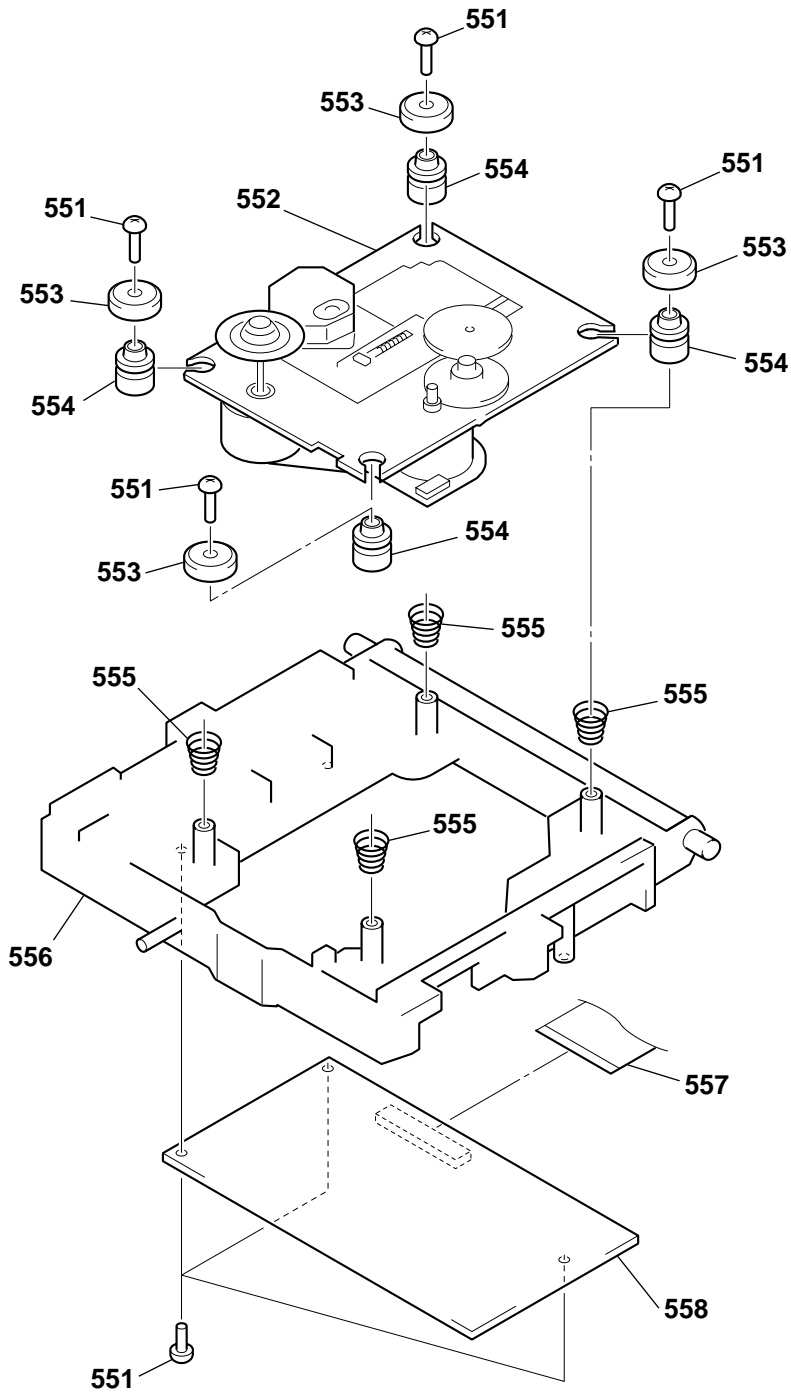
| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------|--------|----------|--------------|----------------------------|--------|
| 251 | 4-929-074-01 | SCREW (3X8) | | 254 | 3-701-822-01 | HOLDER, WIRE | |
| * 252 | 4-615-354-01 | SPACER | | 255 | 4-235-601-12 | PANEL, BACK (US, Canadian) | |
| 253 | 3-384-102-21 | CUSHION (LCD) | | 255 | 4-235-601-22 | PANEL, BACK (AEP) | |

6-7. MECHANISM DECK SECTION
(CDM19JB-DVBU4B, CDM19JN-DVBU4B)



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-----------------------|--------|----------|--------------|--------------------------|--------|
| 501 | 4-228-673-01 | BRACKET (DISC TABLE) | | 514 | A-4735-483-A | HOLDER (A.P.) ASSY | |
| * 502 | 4-948-368-01 | BAR (MAIN), GUIDE | | * 515 | 4-948-356-03 | HOLDER (A.P.) | |
| 503 | 4-948-353-08 | TABLE, DISC | | 516 | 3-053-844-01 | YOKE | |
| * 504 | 4-948-369-01 | BAR (SUB), GUIDE | | * 517 | 4-948-355-05 | CHASSIS (OUTSERT) | |
| 505 | A-4604-913-A | LOCK (L) ASSY, STABLE | | * 518 | 1-641-765-13 | LOADING MOTOR BOARD | |
| 506 | 4-927-318-01 | WASHER | | * 519 | 1-641-764-13 | SWITCH BOARD | |
| 507 | 4-967-268-01 | GEAR (C) | | * 520 | 4-948-371-01 | CAM (BU) | |
| 508 | 4-927-620-01 | GEAR (P) | | 521 | 3-659-338-00 | SPRING, COMPRESSION | |
| * 509 | 4-927-648-01 | SLIDER (GROUND) | | 522 | 4-927-654-01 | WASHER (LIMITER) | |
| * 510 | 4-948-360-01 | BEARING, LOADING | | 523 | 4-927-631-01 | ROLLER (L) | |
| 511 | 4-927-649-01 | BELT | | 524 | A-4604-914-A | LOCK (R) ASSY, STABLE | |
| 512 | 4-929-724-01 | PULLEY (B) | | M1 | A-4604-347-A | MOTOR (L) ASSY (LOADING) | |
| 513 | X-4927-608-1 | ARM ASSY, SWING | | | | | |

6-8. BASE UNIT SECTION
(DVBU4B)



| | |
|---|--|
| <p>The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.</p> | <p>Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p> |
|---|--|

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|-----------------|--------------|-----------------------------------|--------|----------|--------------|------------------------------|--------|
| 551 | 4-951-620-01 | SCREW (2.6X8), +BVTP | | 555 | 4-231-449-01 | SPRING (230), CONE TYPE COIL | |
| \triangle 552 | 8-820-132-03 | OPTICAL PICK-UP (KHM-230AAA/J1RP) | | 556 | 4-228-669-01 | HOLDER (KHM230) | |
| 553 | 4-231-925-01 | STOPPER | | 557 | 1-757-097-11 | WIRE (FLAT TYPE) (25 CORE) | |
| 554 | 4-227-549-11 | INSULATOR | | 558 | A-4726-527-A | RF BOARD, COMPLETE | |

SECTION 7 ELECTRICAL PARTS LIST

AC

AC SW

A-POWER

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

- 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. . . : μ A. . . uPA. . . : μ PA. . .
uPB. . . : μ PB. . . uPC. . . : μ PC. . .
uPD. . . : μ PD. . .
- CAPACITORS
uF: μ F
- COILS
uH: μ H

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

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

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

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|---------------|--------------|--|------------------|----------|--------------|---|-------------------------------------|
| | A-4726-336-A | AC BOARD, COMPLETE ***** | | | A-4726-334-A | A-POWER BOARD, COMPLETE (AEP) | |
| | | < CAPACITOR > | | | A-4727-529-A | A-POWER BOARD, COMPLETE (US, Canadian) ***** | |
| Δ C491 | 1-113-927-11 | CERAMIC | 10000PF 20% 250V | | 2-259-121-01 | SCREW, TR | |
| Δ C492 | 1-113-927-11 | CERAMIC | 10000PF 20% 250V | * | 4-931-401-01 | HEAT SINK, V. OUT | |
| Δ C493 | 1-113-927-11 | CERAMIC | 10000PF 20% 250V | | | < CAPACITOR > | |
| Δ C494 | 1-113-927-11 | CERAMIC | 10000PF 20% 250V | | C401 | 1-136-818-11 | FILM 0.0047uF 5% 100V |
| Δ C495 | 1-113-927-11 | CERAMIC | 10000PF 20% 250V | | C402 | 1-136-818-11 | FILM 0.0047uF 5% 100V |
| Δ C496 | 1-113-927-11 | CERAMIC | 10000PF 20% 250V | | C403 | 1-137-626-11 | ELECT 6800uF 20% 35V |
| | | < CONNECTOR > | | | C404 | 1-137-626-11 | ELECT 6800uF 20% 35V |
| CN491 | 1-770-128-11 | PIN, CONNECTOR 2P | | | C405 | 1-109-857-11 | ELECT 47uF 20% 63V |
| * CN492 | 1-564-321-21 | PIN, CONNECTOR 2P | | | C406 | 1-127-714-21 | FILM 12000PF 5% 50V |
| CN493 | 1-564-321-00 | PIN, CONNECTOR 2P | | | C407 | 1-109-857-11 | ELECT 47uF 20% 63V |
| | | < GROUND TERMINAL > | | | C408 | 1-127-714-21 | FILM 12000PF 5% 50V |
| ETP401 | 1-537-770-21 | TERMINAL BOARD, GROUND | | | C409 | 1-128-091-11 | ELECT 1000uF 20% 50V |
| | | < AC INLET > | | | C410 | 1-128-091-11 | ELECT 1000uF 20% 50V |
| J491 | 1-251-234-11 | INLET, AC (~ AC IN) | | | C413 | 1-136-818-11 | FILM 0.0047uF 5% 100V |
| | | < LINE FILTER > | | | C414 | 1-136-818-11 | FILM 0.0047uF 5% 100V |
| Δ T491 | 1-421-915-11 | COIL, LINE FILTER | | | C415 | 1-137-626-11 | ELECT 6800uF 20% 35V |
| Δ T492 | 1-421-915-11 | COIL, LINE FILTER | | | C416 | 1-128-197-11 | ELECT 10uF 20% 50V |
| | | ***** | | | C417 | 1-128-091-11 | ELECT 1000uF 20% 50V |
| | 1-682-056-11 | AC SW BOARD ***** | | | C418 | 1-125-853-21 | FILM 470PF 5% 50V (US, Canadian) |
| | | < CAPACITOR > | | | C464 | 1-136-850-11 | MYLAR 0.1uF 5% 63V |
| Δ C481 | 1-113-927-11 | CERAMIC | 10000PF 20% 250V | | C465 | 1-136-850-11 | MYLAR 0.1uF 5% 63V |
| | | < CONNECTOR > | | | C466 | 1-135-697-11 | ELECT 6800uF 16V |
| * CN481 | 1-568-226-11 | PIN, CONNECTOR 2P | | | C468 | 1-135-836-11 | ELECT 2200uF 16V |
| | | < SWITCH > | | | C470 | 1-135-836-11 | ELECT 2200uF 16V |
| Δ S481 | 1-572-267-51 | SWITCH, PUSH (AC POWER) (1 KEY) (POWER) | | | C471 | 1-136-850-11 | MYLAR 0.1uF 5% 63V |
| | | ***** | | | C472 | 1-136-850-11 | MYLAR 0.1uF 5% 63V |
| | | | | | C473 | 1-135-689-11 | ELECT 6800uF 25V |
| | | | | | C474 | 1-135-836-11 | ELECT 2200uF 16V |
| | | | | | C475 | 1-135-836-11 | ELECT 2200uF 16V |
| | | | | | C477 | 1-135-836-11 | ELECT 2200uF 16V |
| | | | | | C479 | 1-135-689-11 | ELECT 6800uF 25V |
| | | | | | | < CONNECTOR > | |
| | | | | | CN401 | 1-691-767-11 | PLUG (MICRO CONNECTOR) 5P |
| | | | | * | CN402 | 1-691-774-11 | PLUG (MICRO CONNECTOR) 12P |
| | | | | | CN403 | 1-691-770-21 | PLUG (MICRO CONNECTOR) 8P |
| | | | | | CN404 | 1-691-765-11 | PLUG (MICRO CONNECTOR) 3P |
| | | | | | CN452 | 1-691-766-11 | PLUG (MICRO CONNECTOR) 4P |

SCD-XA777ES

A-POWER

AUDIO C/SW

| Ref. No. | Part No. | Description | Remark |
|---------------------|--------------|---------------------------------------|--------|
| CN454 | 1-691-769-21 | PLUG (MICRO CONNECTOR) 7P | |
| CN455 | 1-564-505-11 | PLUG, CONNECTOR 2P | |
| < DIODE > | | | |
| D401 | 8-719-079-01 | DIODE F10P20F (R) | |
| D402 | 8-719-079-01 | DIODE F10P20F (R) | |
| D403 | 8-719-079-00 | DIODE F10P20FR | |
| D404 | 8-719-079-00 | DIODE F10P20FR | |
| D405 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| D406 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| D407 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| D408 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| D409 | 8-719-976-99 | DIODE UDZ-TE-17-5.1B | |
| D410 | 8-719-976-99 | DIODE UDZ-TE-17-5.1B | |
| D411 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| D459 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| D460 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| D461 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| D462 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| D463 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| D464 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| D465 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| D466 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| < GROUND TERMINAL > | | | |
| EPT403 | 1-537-770-21 | TERMINAL BOARD, GROUND (US, Canadian) | |
| < IC > | | | |
| IC401 | 8-759-566-39 | IC OPA2132UA/2K5 | |
| IC402 | 8-759-566-39 | IC OPA2132UA/2K5 | |
| IC403 | 8-759-231-53 | IC M5F7805L | |
| IC452 | 8-759-450-47 | IC BA05T | |
| IC453 | 8-759-450-47 | IC BA05T | |
| IC454 | 8-759-445-59 | IC BA033T | |
| IC455 | 8-759-445-59 | IC BA033T | |
| < NOISE FILTER > | | | |
| L401 | 1-424-122-11 | FILTER, NOISE | |
| L402 | 1-424-122-11 | FILTER, NOISE | |
| L403 | 1-424-122-11 | FILTER, NOISE | |
| L404 | 1-424-122-11 | FILTER, NOISE | |
| L405 | 1-424-122-11 | FILTER, NOISE | |
| L406 | 1-424-122-11 | FILTER, NOISE | |
| L407 | 1-424-122-11 | FILTER, NOISE | |
| L457 | 1-424-122-11 | FILTER, NOISE | |
| L458 | 1-424-122-11 | FILTER, NOISE | |
| L459 | 1-424-122-11 | FILTER, NOISE | |
| L460 | 1-424-122-11 | FILTER, NOISE | |
| < TRANSISTOR > | | | |
| Q401 | 8-729-107-53 | TRANSISTOR 2SC2275-QP | |
| Q402 | 8-729-107-53 | TRANSISTOR 2SC2275-QP | |
| Q403 | 8-729-141-10 | TRANSISTOR 2SA985-QP | |
| Q404 | 8-729-141-10 | TRANSISTOR 2SA985-QP | |
| Q405 | 8-729-036-56 | FET 2SK208-GR-TE85L | |
| Q406 | 8-729-036-56 | FET 2SK208-GR-TE85L | |

| Ref. No. | Part No. | Description | Remark |
|---------------------------|--------------|----------------------|----------------------------|
| < RESISTOR > | | | |
| R401 | 1-259-979-11 | CARBON MELF 47 | 2% 1/8W |
| R402 | 1-259-991-11 | CARBON MELF 470 | 2% 1/8W |
| R403 | 1-259-991-11 | CARBON MELF 470 | 2% 1/8W |
| R404 | 1-259-979-11 | CARBON MELF 47 | 2% 1/8W |
| R405 | 1-259-995-11 | CARBON MELF 1K | 2% 1/8W |
| R406 | 1-259-995-11 | CARBON MELF 1K | 2% 1/8W |
| R407 | 1-259-995-11 | CARBON MELF 1K | 2% 1/8W |
| R408 | 1-259-995-11 | CARBON MELF 1K | 2% 1/8W |
| R409 | 1-259-983-11 | CARBON MELF 100 | 2% 1/8W |
| R410 | 1-259-983-11 | CARBON MELF 100 | 2% 1/8W |
| R411 | 1-259-997-11 | CARBON MELF 1.5K | 2% 1/8W |
| R412 | 1-259-995-11 | CARBON MELF 1K | 2% 1/8W |
| R413 | 1-259-997-11 | CARBON MELF 1.5K | 2% 1/8W |
| R414 | 1-259-995-11 | CARBON MELF 1K | 2% 1/8W |
| R415 | 1-260-012-11 | CARBON MELF 22K | 2% 1/8W |
| R457 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R458 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R459 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R460 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| < THERMISTOR (POSITIVE) > | | | |
| THP452 | 1-801-578-11 | THERMISTOR, POSITIVE | |
| THP453 | 1-801-578-11 | THERMISTOR, POSITIVE | |
| ***** | | | |
| | | A-4726-332-A | AUDIO C/SW BOARD, COMPLETE |
| ***** | | | |
| < CAPACITOR > | | | |
| C2101 | 1-109-857-11 | ELECT 47uF | 20% 63V |
| C2102 | 1-130-973-00 | MYLAR 0.022uF | 5% 100V |
| C2103 | 1-109-857-11 | ELECT 47uF | 20% 63V |
| C2105 | 1-128-197-11 | ELECT 10uF | 20% 50V |
| C2106 | 1-128-197-11 | ELECT 10uF | 20% 50V |
| C2107 | 1-130-973-00 | MYLAR 0.022uF | 5% 100V |
| C2108 | 1-109-857-11 | ELECT 47uF | 20% 63V |
| C2109 | 1-128-197-11 | ELECT 10uF | 20% 50V |
| C2110 | 1-136-819-11 | FILM 0.0068uF | 5% 100V |
| C2111 | 1-136-819-11 | FILM 0.0068uF | 5% 100V |
| C2112 | 1-136-817-11 | FILM 0.0033uF | 5% 100V |
| C2113 | 1-136-814-11 | FILM 0.001uF | 5% 100V |
| C2114 | 1-136-817-11 | FILM 0.0033uF | 5% 100V |
| C2115 | 1-136-814-11 | FILM 0.001uF | 5% 100V |
| C2116 | 1-136-818-11 | FILM 0.0047uF | 5% 100V |
| C2117 | 1-136-810-11 | FILM 220PF | 5% 100V |
| C2118 | 1-117-775-31 | ELECT 0.1uF | 10% 250V |
| C2119 | 1-128-201-11 | ELECT 100uF | 20% 50V |
| C2120 | 1-128-201-11 | ELECT 100uF | 20% 50V |
| C2151 | 1-110-495-11 | ELECT 220uF | 20% 25V |
| C2152 | 1-119-803-11 | ELECT 470uF | 20% 25V |
| C2153 | 1-164-506-11 | CERAMIC CHIP 4.7uF | 16V |
| C2154 | 1-128-201-11 | ELECT 100uF | 20% 50V |
| C2155 | 1-128-201-11 | ELECT 100uF | 20% 50V |
| C2156 | 1-130-973-00 | MYLAR 0.022uF | 5% 100V |
| C2157 | 1-130-973-00 | MYLAR 0.022uF | 5% 100V |
| C2158 | 1-130-973-00 | MYLAR 0.022uF | 5% 100V |
| C2159 | 1-130-973-00 | MYLAR 0.022uF | 5% 100V |

AUDIO C/SW

| Ref. No. | Part No. | Description | Remark | | | Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|-------------------------------|----------|-----|------|----------|--------------|--|----------------|----|-------|
| C2160 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | IC2103 | 8-759-566-39 | IC OPA2132UA/2K5 | | | |
| C2161 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | IC2151 | 8-759-486-55 | IC NJM2370U33-TE2 | | | |
| C2162 | 1-119-800-11 | ELECT | 100uF | 20% | 25V | IC2201 | 8-759-836-44 | IC CXD9657N/2K | | | |
| C2163 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | IC2202 | 8-759-566-39 | IC OPA2132UA/2K5 | | | |
| C2164 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | IC2203 | 8-759-566-39 | IC OPA2132UA/2K5 | | | |
| C2165 | 1-110-495-11 | ELECT | 220uF | 20% | 25V | | | < JACK > | | | |
| C2166 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V | J2301 | 1-815-744-11 | JACK, PIN 2P (ANALOG 5.1CH OUT CENTER/SUB WOOFER) | | | |
| C2180 | 1-117-720-11 | CERAMIC CHIP | 4.7uF | | 10V | | | < COIL > | | | |
| C2181 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V | L2102 | 1-408-619-31 | INDUCTOR | 220uH | | |
| C2201 | 1-109-857-11 | ELECT | 47uF | 20% | 63V | L2202 | 1-408-619-31 | INDUCTOR | 220uH | | |
| C2202 | 1-130-973-00 | MYLAR | 0.022uF | 5% | 100V | | | < TRANSISTOR > | | | |
| C2203 | 1-109-857-11 | ELECT | 47uF | 20% | 63V | Q2151 | 8-729-207-71 | TRANSISTOR | RN2405-TE85L | | |
| C2205 | 1-128-197-11 | ELECT | 10uF | 20% | 50V | Q2152 | 8-729-900-53 | TRANSISTOR | DTC114EKA-T146 | | |
| C2206 | 1-128-197-11 | ELECT | 10uF | 20% | 50V | Q2153 | 8-729-207-71 | TRANSISTOR | RN2405-TE85L | | |
| C2207 | 1-130-973-00 | MYLAR | 0.022uF | 5% | 100V | Q2154 | 8-729-900-53 | TRANSISTOR | DTC114EKA-T146 | | |
| C2208 | 1-109-857-11 | ELECT | 47uF | 20% | 63V | Q2155 | 8-729-207-71 | TRANSISTOR | RN2405-TE85L | | |
| C2209 | 1-128-197-11 | ELECT | 10uF | 20% | 50V | Q2156 | 8-729-900-53 | TRANSISTOR | DTC114EKA-T146 | | |
| C2210 | 1-136-819-11 | FILM | 0.0068uF | 5% | 100V | | | < RESISTOR > | | | |
| C2211 | 1-136-819-11 | FILM | 0.0068uF | 5% | 100V | R2101 | 1-259-937-11 | CARBON MELF | 16K | 2% | 1/8W |
| C2212 | 1-136-817-11 | FILM | 0.0033uF | 5% | 100V | R2103 | 1-259-979-11 | CARBON MELF | 47 | 2% | 1/8W |
| C2213 | 1-136-814-11 | FILM | 0.001uF | 5% | 100V | R2104 | 1-259-979-11 | CARBON MELF | 47 | 2% | 1/8W |
| C2214 | 1-136-817-11 | FILM | 0.0033uF | 5% | 100V | R2105 | 1-259-979-11 | CARBON MELF | 47 | 2% | 1/8W |
| C2215 | 1-136-814-11 | FILM | 0.001uF | 5% | 100V | R2106 | 1-259-979-11 | CARBON MELF | 47 | 2% | 1/8W |
| C2216 | 1-136-818-11 | FILM | 0.0047uF | 5% | 100V | R2107 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W |
| C2217 | 1-136-810-11 | FILM | 220PF | 5% | 100V | R2108 | 1-259-991-11 | CARBON MELF | 470 | 2% | 1/8W |
| C2218 | 1-117-775-31 | ELECT | 0.1uF | 10% | 250V | R2109 | 1-259-998-11 | CARBON MELF | 1.8K | 2% | 1/8W |
| C2219 | 1-128-201-11 | ELECT | 100uF | 20% | 50V | R2110 | 1-259-998-11 | CARBON MELF | 1.8K | 2% | 1/8W |
| C2220 | 1-128-201-11 | ELECT | 100uF | 20% | 50V | R2111 | 1-259-925-11 | CARBON MELF | 1.6K | 2% | 1/8W |
| C2256 | 1-130-973-00 | MYLAR | 0.022uF | 5% | 100V | R2112 | 1-259-998-11 | CARBON MELF | 1.8K | 2% | 1/8W |
| C2257 | 1-130-973-00 | MYLAR | 0.022uF | 5% | 100V | R2113 | 1-259-998-11 | CARBON MELF | 1.8K | 2% | 1/8W |
| C2258 | 1-130-973-00 | MYLAR | 0.022uF | 5% | 100V | R2114 | 1-259-925-11 | CARBON MELF | 1.6K | 2% | 1/8W |
| C2259 | 1-130-973-00 | MYLAR | 0.022uF | 5% | 100V | R2115 | 1-260-002-11 | CARBON MELF | 3.3K | 2% | 1/8W |
| | | < CONNECTOR > | | | | R2116 | 1-260-001-11 | CARBON MELF | 2.7K | 2% | 1/8W |
| * CN2101 | 1-774-629-11 | CONNECTOR, BOARD TO BOARD 17P | | | | R2117 | 1-260-002-11 | CARBON MELF | 3.3K | 2% | 1/8W |
| * CN2102 | 1-770-727-11 | CONNECTOR, BOARD TO BOARD 8P | | | | R2118 | 1-260-028-11 | CARBON MELF | 470K | 2% | 1/8W |
| | | < DIODE > | | | | R2119 | 1-259-971-11 | CARBON MELF | 10 | 2% | 1/8W |
| D2151 | 8-719-069-60 | DIODE UDZSTE-179.1B | | | | R2120 | 1-259-983-11 | CARBON MELF | 100 | 2% | 1/8W |
| D2152 | 8-719-069-60 | DIODE UDZSTE-179.1B | | | | R2151 | 1-216-073-11 | RES-CHIP | 10K | 5% | 1/10W |
| D2153 | 8-719-016-74 | DIODE 1SS352-TPH3 | | | | R2153 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| D2154 | 8-719-016-74 | DIODE 1SS352-TPH3 | | | | R2154 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| D2155 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | | R2155 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| D2156 | 8-719-016-74 | DIODE 1SS352-TPH3 | | | | R2156 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| D2157 | 8-719-069-60 | DIODE UDZSTE-179.1B | | | | R2157 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| | | < FUSIBLE RESISTOR > | | | | R2158 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| △FR2101 | 1-212-881-11 | FUSIBLE | 100 | 5% | 1/4W | R2159 | 1-216-073-11 | RES-CHIP | 10K | 5% | 1/10W |
| △FR2151 | 1-212-881-11 | FUSIBLE | 100 | 5% | 1/4W | R2160 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| △FR2152 | 1-212-881-11 | FUSIBLE | 100 | 5% | 1/4W | R2161 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| △FR2153 | 1-212-865-00 | FUSIBLE | 22 | 5% | 1/4W | R2162 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| △FR2154 | 1-212-881-11 | FUSIBLE | 100 | 5% | 1/4W | R2163 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| △FR2201 | 1-212-881-11 | FUSIBLE | 100 | 5% | 1/4W | R2164 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| | | < IC > | | | | R2165 | 1-216-025-11 | RES-CHIP | 100 | 5% | 1/10W |
| IC2101 | 8-759-836-44 | IC CXD9657N/2K | | | | R2166 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| IC2102 | 8-759-566-39 | IC OPA2132UA/2K5 | | | | | | | | | |

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 pièce portant le numéro spécifié.

AUDIO C/SW

AUDIO FRONT

| Ref. No. | Part No. | Description | Remark |
|---------------|--------------------------------------|---------------------|--------|
| R2180 | 1-216-073-11 | RES-CHIP 10K 5% | 1/10W |
| R2181 | 1-216-298-00 | METAL CHIP 2.2 5% | 1/10W |
| R2201 | 1-259-937-11 | CARBON MELF 16K 2% | 1/8W |
| R2203 | 1-259-979-11 | CARBON MELF 47 2% | 1/8W |
| R2204 | 1-259-979-11 | CARBON MELF 47 2% | 1/8W |
| R2205 | 1-259-979-11 | CARBON MELF 47 2% | 1/8W |
| R2206 | 1-259-979-11 | CARBON MELF 47 2% | 1/8W |
| R2207 | 1-259-991-11 | CARBON MELF 470 2% | 1/8W |
| R2208 | 1-259-991-11 | CARBON MELF 470 2% | 1/8W |
| R2209 | 1-259-998-11 | CARBON MELF 1.8K 2% | 1/8W |
| R2210 | 1-259-998-11 | CARBON MELF 1.8K 2% | 1/8W |
| R2211 | 1-259-925-11 | CARBON MELF 1.6K 2% | 1/8W |
| R2212 | 1-259-998-11 | CARBON MELF 1.8K 2% | 1/8W |
| R2213 | 1-259-998-11 | CARBON MELF 1.8K 2% | 1/8W |
| R2214 | 1-259-925-11 | CARBON MELF 1.6K 2% | 1/8W |
| R2215 | 1-260-002-11 | CARBON MELF 3.3K 2% | 1/8W |
| R2216 | 1-260-001-11 | CARBON MELF 2.7K 2% | 1/8W |
| R2217 | 1-260-002-11 | CARBON MELF 3.3K 2% | 1/8W |
| R2218 | 1-260-028-11 | CARBON MELF 470K 2% | 1/8W |
| R2219 | 1-259-971-11 | CARBON MELF 10 2% | 1/8W |
| R2220 | 1-259-983-11 | CARBON MELF 100 2% | 1/8W |
| R2221 | 1-260-002-11 | CARBON MELF 3.3K 2% | 1/8W |
| < RELAY > | | | |
| RY2151 | 1-755-295-11 | RELAY | |
| RY2152 | 1-755-295-11 | RELAY | |
| RY2153 | 1-755-295-11 | RELAY | |
| ***** | | | |
| A-4726-330-A | AUDIO FRONT BOARD, COMPLETE ***** | | |
| < CAPACITOR > | | | |
| C101 | 1-109-857-11 | ELECT 47uF 20% | 63V |
| C102 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| C103 | 1-109-857-11 | ELECT 47uF 20% | 63V |
| C105 | 1-128-197-11 | ELECT 10uF 20% | 50V |
| C106 | 1-128-197-11 | ELECT 10uF 20% | 50V |
| C107 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| C108 | 1-109-857-11 | ELECT 47uF 20% | 63V |
| C109 | 1-128-197-11 | ELECT 10uF 20% | 50V |
| C110 | 1-136-819-11 | FILM 0.0068uF 5% | 100V |
| C111 | 1-136-819-11 | FILM 0.0068uF 5% | 100V |
| C112 | 1-136-817-11 | FILM 0.0033uF 5% | 100V |
| C113 | 1-136-814-11 | FILM 0.001uF 5% | 100V |
| C114 | 1-136-817-11 | FILM 0.0033uF 5% | 100V |
| C115 | 1-136-814-11 | FILM 0.001uF 5% | 100V |
| C116 | 1-136-818-11 | FILM 0.0047uF 5% | 100V |
| C117 | 1-136-810-11 | FILM 220PF 5% | 100V |
| C118 | 1-117-775-31 | ELECT 0.1uF 10% | 250V |
| C119 | 1-128-201-11 | ELECT 100uF 20% | 50V |
| C120 | 1-128-201-11 | ELECT 100uF 20% | 50V |
| C151 | 1-110-495-11 | ELECT 220uF 20% | 25V |
| C152 | 1-119-803-11 | ELECT 470uF 20% | 25V |
| C153 | 1-164-506-11 | CERAMIC CHIP 4.7uF | 16V |
| C154 | 1-128-201-11 | ELECT 100uF 20% | 50V |
| C155 | 1-128-201-11 | ELECT 100uF 20% | 50V |
| C156 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |

| Ref. No. | Part No. | Description | Remark |
|----------------------|--------------|-------------------------------|--------|
| C157 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| C158 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| C159 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| C160 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C161 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C162 | 1-119-800-11 | ELECT 100uF 20% | 25V |
| C163 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C164 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C165 | 1-110-495-11 | ELECT 220uF 20% | 25V |
| C180 | 1-117-720-11 | CERAMIC CHIP 4.7uF | 10V |
| C181 | 1-163-141-00 | CERAMIC CHIP 0.001uF 5% | 50V |
| C201 | 1-109-857-11 | ELECT 47uF 20% | 63V |
| C202 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| C203 | 1-109-857-11 | ELECT 47uF 20% | 63V |
| C205 | 1-128-197-11 | ELECT 10uF 20% | 50V |
| C206 | 1-128-197-11 | ELECT 10uF 20% | 50V |
| C207 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| C208 | 1-109-857-11 | ELECT 47uF 20% | 63V |
| C209 | 1-128-197-11 | ELECT 10uF 20% | 50V |
| C210 | 1-136-819-11 | FILM 0.0068uF 5% | 100V |
| C211 | 1-136-819-11 | FILM 0.0068uF 5% | 100V |
| C212 | 1-136-817-11 | FILM 0.0033uF 5% | 100V |
| C213 | 1-136-814-11 | FILM 0.001uF 5% | 100V |
| C214 | 1-136-817-11 | FILM 0.0033uF 5% | 100V |
| C215 | 1-136-814-11 | FILM 0.001uF 5% | 100V |
| C216 | 1-136-818-11 | FILM 0.0047uF 5% | 100V |
| C217 | 1-136-810-11 | FILM 220PF 5% | 100V |
| C218 | 1-117-775-31 | ELECT 0.1uF 10% | 250V |
| C219 | 1-128-201-11 | ELECT 100uF 20% | 50V |
| C220 | 1-128-201-11 | ELECT 100uF 20% | 50V |
| C256 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| C257 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| C258 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| C259 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| < CONNECTOR > | | | |
| * CN101 | 1-770-732-11 | CONNECTOR, BOARD TO BOARD 15P | |
| * CN102 | 1-770-727-11 | CONNECTOR, BOARD TO BOARD 8P | |
| < DIODE > | | | |
| D151 | 8-719-069-60 | DIODE UDZSTE-179.1B | |
| D152 | 8-719-069-60 | DIODE UDZSTE-179.1B | |
| D153 | 8-719-016-74 | DIODE 1SS352-TPH3 | |
| D154 | 8-719-016-74 | DIODE 1SS352-TPH3 | |
| D155 | 8-719-049-09 | DIODE 1SS367-T3SONY | |
| < FUSIBLE RESISTOR > | | | |
| △FR101 | 1-212-881-11 | FUSIBLE 100 5% | 1/4W |
| △FR151 | 1-212-881-11 | FUSIBLE 100 5% | 1/4W |
| △FR152 | 1-212-881-11 | FUSIBLE 100 5% | 1/4W |
| △FR153 | 1-212-865-00 | FUSIBLE 22 5% | 1/4W |
| △FR201 | 1-212-881-11 | FUSIBLE 100 5% | 1/4W |
| < IC > | | | |
| IC101 | 8-759-836-44 | IC CXD9657N/2K | |
| IC102 | 8-759-566-39 | IC OPA2132UA/2K5 | |
| IC103 | 8-759-566-39 | IC OPA2132UA/2K5 | |
| IC151 | 8-759-486-55 | IC NJM2370U33-TE2 | |

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 pièce portant le numéro spécifié.

AUDIO FRONT

AUDIO SURR

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------------------|--------|---|--------------|---------------------|--------|
| IC201 | 8-759-836-44 | IC CXD9657N/2K | | R206 | 1-259-979-11 | CARBON MELF 47 2% | 1/8W |
| IC202 | 8-759-566-39 | IC OPA2132UA/2K5 | | R207 | 1-259-991-11 | CARBON MELF 470 2% | 1/8W |
| IC203 | 8-759-566-39 | IC OPA2132UA/2K5 | | R208 | 1-259-991-11 | CARBON MELF 470 2% | 1/8W |
| | | < JACK > | | R209 | 1-259-998-11 | CARBON MELF 1.8K 2% | 1/8W |
| J301 | 1-815-743-11 | JACK, PIN 2P (ANALOG 5.1CH OUT FRONT) | | R210 | 1-259-998-11 | CARBON MELF 1.8K 2% | 1/8W |
| | | < COIL > | | R211 | 1-259-925-11 | CARBON MELF 1.6K 2% | 1/8W |
| L102 | 1-408-619-31 | INDUCTOR 220uH | | R212 | 1-259-998-11 | CARBON MELF 1.8K 2% | 1/8W |
| L202 | 1-408-619-31 | INDUCTOR 220uH | | R213 | 1-259-998-11 | CARBON MELF 1.8K 2% | 1/8W |
| | | < TRANSISTOR > | | R214 | 1-259-925-11 | CARBON MELF 1.6K 2% | 1/8W |
| Q151 | 8-729-207-71 | TRANSISTOR RN2405-TE85L | | R215 | 1-260-002-11 | CARBON MELF 3.3K 2% | 1/8W |
| Q152 | 8-729-900-53 | TRANSISTOR DTC114EKA-T146 | | R216 | 1-260-001-11 | CARBON MELF 2.7K 2% | 1/8W |
| Q153 | 8-729-207-71 | TRANSISTOR RN2405-TE85L | | R217 | 1-260-002-11 | CARBON MELF 3.3K 2% | 1/8W |
| Q154 | 8-729-900-53 | TRANSISTOR DTC114EKA-T146 | | R218 | 1-260-028-11 | CARBON MELF 470K 2% | 1/8W |
| | | < RESISTOR > | | R219 | 1-259-971-11 | CARBON MELF 10 2% | 1/8W |
| R101 | 1-259-937-11 | CARBON MELF 16K 2% | 1/8W | R220 | 1-259-983-11 | CARBON MELF 100 2% | 1/8W |
| R103 | 1-259-979-11 | CARBON MELF 47 2% | 1/8W | | | < RELAY > | |
| R104 | 1-259-979-11 | CARBON MELF 47 2% | 1/8W | RY151 | 1-755-295-11 | RELAY | |
| R105 | 1-259-979-11 | CARBON MELF 47 2% | 1/8W | RY152 | 1-755-295-11 | RELAY | |
| R106 | 1-259-979-11 | CARBON MELF 47 2% | 1/8W | ***** | | | |
| R107 | 1-259-991-11 | CARBON MELF 470 2% | 1/8W | A-4726-331-A AUDIO SURR BOARD, COMPLETE | | | |
| R108 | 1-259-991-11 | CARBON MELF 470 2% | 1/8W | ***** | | | |
| R109 | 1-259-998-11 | CARBON MELF 1.8K 2% | 1/8W | | | < CAPACITOR > | |
| R110 | 1-259-998-11 | CARBON MELF 1.8K 2% | 1/8W | C1101 | 1-109-857-11 | ELECT 47uF 20% | 63V |
| R111 | 1-259-925-11 | CARBON MELF 1.6K 2% | 1/8W | C1102 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| R112 | 1-259-998-11 | CARBON MELF 1.8K 2% | 1/8W | C1103 | 1-109-857-11 | ELECT 47uF 20% | 63V |
| R113 | 1-259-998-11 | CARBON MELF 1.8K 2% | 1/8W | C1105 | 1-128-197-11 | ELECT 10uF 20% | 50V |
| R114 | 1-259-925-11 | CARBON MELF 1.6K 2% | 1/8W | C1106 | 1-128-197-11 | ELECT 10uF 20% | 50V |
| R115 | 1-260-002-11 | CARBON MELF 3.3K 2% | 1/8W | C1107 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| R116 | 1-260-001-11 | CARBON MELF 2.7K 2% | 1/8W | C1108 | 1-109-857-11 | ELECT 47uF 20% | 63V |
| R117 | 1-260-002-11 | CARBON MELF 3.3K 2% | 1/8W | C1109 | 1-128-197-11 | ELECT 10uF 20% | 50V |
| R118 | 1-260-028-11 | CARBON MELF 470K 2% | 1/8W | C1110 | 1-136-819-11 | FILM 0.0068uF 5% | 100V |
| R119 | 1-259-971-11 | CARBON MELF 10 2% | 1/8W | C1111 | 1-136-819-11 | FILM 0.0068uF 5% | 100V |
| R120 | 1-259-983-11 | CARBON MELF 100 2% | 1/8W | C1112 | 1-136-817-11 | FILM 0.0033uF 5% | 100V |
| R151 | 1-216-073-11 | RES-CHIP 10K 5% | 1/10W | C1113 | 1-136-814-11 | FILM 0.001uF 5% | 100V |
| R153 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W | C1114 | 1-136-817-11 | FILM 0.0033uF 5% | 100V |
| R154 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W | C1115 | 1-136-814-11 | FILM 0.001uF 5% | 100V |
| R155 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W | C1116 | 1-136-818-11 | FILM 0.0047uF 5% | 100V |
| R156 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W | C1117 | 1-136-810-11 | FILM 220PF 5% | 100V |
| R157 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W | C1118 | 1-117-775-31 | ELECT 0.1uF 10% | 250V |
| R158 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W | C1119 | 1-128-201-11 | ELECT 100uF 20% | 50V |
| R159 | 1-216-073-11 | RES-CHIP 10K 5% | 1/10W | C1120 | 1-128-201-11 | ELECT 100uF 20% | 50V |
| R160 | 1-216-081-00 | METAL CHIP 22K 5% | 1/10W | C1151 | 1-110-495-11 | ELECT 220uF 20% | 25V |
| R161 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W | C1152 | 1-119-803-11 | ELECT 470uF 20% | 25V |
| R162 | 1-216-041-00 | METAL CHIP 470 5% | 1/10W | C1153 | 1-164-506-11 | CERAMIC CHIP 4.7uF | 16V |
| R163 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W | C1154 | 1-128-201-11 | ELECT 100uF 20% | 50V |
| R164 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W | C1155 | 1-128-201-11 | ELECT 100uF 20% | 50V |
| R165 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W | C1156 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| R180 | 1-216-073-11 | RES-CHIP 10K 5% | 1/10W | C1157 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| R181 | 1-216-298-00 | METAL CHIP 2.2 5% | 1/10W | C1158 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| R201 | 1-259-937-11 | CARBON MELF 16K 2% | 1/8W | C1159 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| R203 | 1-259-979-11 | CARBON MELF 47 2% | 1/8W | C1160 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| R204 | 1-259-979-11 | CARBON MELF 47 2% | 1/8W | C1161 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| R205 | 1-259-979-11 | CARBON MELF 47 2% | 1/8W | C1162 | 1-119-800-11 | ELECT 100uF 20% | 25V |
| | | | | C1163 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| | | | | C1164 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |

AUDIO SURR

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------------------------|-------------|----------|--------------|----------------|----------------|
| C1165 | 1-110-495-11 | ELECT | 220uF 20% | | | < COIL > | |
| C1180 | 1-117-720-11 | CERAMIC CHIP | 4.7uF | | | | |
| C1181 | 1-163-141-00 | CERAMIC CHIP | 0.001uF 5% | L1102 | 1-408-619-31 | INDUCTOR | 220uH |
| C1201 | 1-109-857-11 | ELECT | 47uF 20% | L1202 | 1-408-619-31 | INDUCTOR | 220uH |
| C1202 | 1-130-973-00 | MYLAR | 0.022uF 5% | | | < TRANSISTOR > | |
| C1203 | 1-109-857-11 | ELECT | 47uF 20% | Q1151 | 8-729-207-71 | TRANSISTOR | RN2405-TE85L |
| C1205 | 1-128-197-11 | ELECT | 10uF 20% | Q1152 | 8-729-900-53 | TRANSISTOR | DTC114EKA-T146 |
| C1206 | 1-128-197-11 | ELECT | 10uF 20% | Q1153 | 8-729-207-71 | TRANSISTOR | RN2405-TE85L |
| C1207 | 1-130-973-00 | MYLAR | 0.022uF 5% | Q1154 | 8-729-900-53 | TRANSISTOR | DTC114EKA-T146 |
| C1208 | 1-109-857-11 | ELECT | 47uF 20% | | | < RESISTOR > | |
| C1209 | 1-128-197-11 | ELECT | 10uF 20% | R1101 | 1-259-937-11 | CARBON MELF | 16K 2% 1/8W |
| C1210 | 1-136-819-11 | FILM | 0.0068uF 5% | R1103 | 1-259-979-11 | CARBON MELF | 47 2% 1/8W |
| C1211 | 1-136-819-11 | FILM | 0.0068uF 5% | R1104 | 1-259-979-11 | CARBON MELF | 47 2% 1/8W |
| C1212 | 1-136-817-11 | FILM | 0.0033uF 5% | R1105 | 1-259-979-11 | CARBON MELF | 47 2% 1/8W |
| C1213 | 1-136-814-11 | FILM | 0.001uF 5% | R1106 | 1-259-979-11 | CARBON MELF | 47 2% 1/8W |
| C1214 | 1-136-817-11 | FILM | 0.0033uF 5% | R1107 | 1-259-991-11 | CARBON MELF | 470 2% 1/8W |
| C1215 | 1-136-814-11 | FILM | 0.001uF 5% | R1108 | 1-259-991-11 | CARBON MELF | 470 2% 1/8W |
| C1216 | 1-136-818-11 | FILM | 0.0047uF 5% | R1109 | 1-259-998-11 | CARBON MELF | 1.8K 2% 1/8W |
| C1217 | 1-136-810-11 | FILM | 220PF 5% | R1110 | 1-259-998-11 | CARBON MELF | 1.8K 2% 1/8W |
| C1218 | 1-117-775-31 | ELECT | 0.1uF 10% | R1111 | 1-259-925-11 | CARBON MELF | 1.6K 2% 1/8W |
| C1219 | 1-128-201-11 | ELECT | 100uF 20% | R1112 | 1-259-998-11 | CARBON MELF | 1.8K 2% 1/8W |
| C1220 | 1-128-201-11 | ELECT | 100uF 20% | R1113 | 1-259-998-11 | CARBON MELF | 1.8K 2% 1/8W |
| C1256 | 1-130-973-00 | MYLAR | 0.022uF 5% | R1114 | 1-259-925-11 | CARBON MELF | 1.6K 2% 1/8W |
| C1257 | 1-130-973-00 | MYLAR | 0.022uF 5% | R1115 | 1-260-002-11 | CARBON MELF | 3.3K 2% 1/8W |
| C1258 | 1-130-973-00 | MYLAR | 0.022uF 5% | R1116 | 1-260-001-11 | CARBON MELF | 2.7K 2% 1/8W |
| C1259 | 1-130-973-00 | MYLAR | 0.022uF 5% | R1117 | 1-260-002-11 | CARBON MELF | 3.3K 2% 1/8W |
| | | < CONNECTOR > | | R1118 | 1-260-028-11 | CARBON MELF | 470K 2% 1/8W |
| * CN1101 | 1-770-732-11 | CONNECTOR, BOARD TO BOARD 15P | | R1119 | 1-259-971-11 | CARBON MELF | 10 2% 1/8W |
| * CN1102 | 1-770-727-11 | CONNECTOR, BOARD TO BOARD 8P | | R1120 | 1-259-983-11 | CARBON MELF | 100 2% 1/8W |
| | | < DIODE > | | R1151 | 1-216-073-11 | RES-CHIP | 10K 5% 1/10W |
| D1151 | 8-719-069-60 | DIODE UDZSTE-179.1B | | R1153 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| D1152 | 8-719-069-60 | DIODE UDZSTE-179.1B | | R1154 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| D1153 | 8-719-016-74 | DIODE 1SS352-TPH3 | | R1155 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| D1154 | 8-719-016-74 | DIODE 1SS352-TPH3 | | R1156 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| D1155 | 8-719-049-09 | DIODE 1SS367-T3SONY | | R1157 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | < FUSIBLE RESISTOR > | | R1158 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| △FR1101 | 1-212-881-11 | FUSIBLE | 100 5% | R1159 | 1-216-073-11 | RES-CHIP | 10K 5% 1/10W |
| △FR1151 | 1-212-881-11 | FUSIBLE | 100 5% | R1160 | 1-216-081-00 | METAL CHIP | 22K 5% 1/10W |
| △FR1152 | 1-212-881-11 | FUSIBLE | 100 5% | R1161 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| △FR1153 | 1-212-865-00 | FUSIBLE | 22 5% | R1162 | 1-216-041-00 | METAL CHIP | 470 5% 1/10W |
| △FR1201 | 1-212-881-11 | FUSIBLE | 100 5% | R1163 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | < IC > | | R1164 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| IC1101 | 8-759-836-44 | IC CXD9657N/2K | | R1165 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| IC1102 | 8-759-566-39 | IC OPA2132UA/2K5 | | R1180 | 1-216-073-11 | RES-CHIP | 10K 5% 1/10W |
| IC1103 | 8-759-566-39 | IC OPA2132UA/2K5 | | R1181 | 1-216-298-00 | METAL CHIP | 2.2 5% 1/10W |
| IC1151 | 8-759-486-55 | IC NJM2370U33-TE2 | | R1201 | 1-259-937-11 | CARBON MELF | 16K 2% 1/8W |
| IC1201 | 8-759-836-44 | IC CXD9657N/2K | | R1203 | 1-259-979-11 | CARBON MELF | 47 2% 1/8W |
| IC1202 | 8-759-566-39 | IC OPA2132UA/2K5 | | R1204 | 1-259-979-11 | CARBON MELF | 47 2% 1/8W |
| IC1203 | 8-759-566-39 | IC OPA2132UA/2K5 | | R1205 | 1-259-979-11 | CARBON MELF | 47 2% 1/8W |
| | | < JACK > | | R1206 | 1-259-979-11 | CARBON MELF | 47 2% 1/8W |
| J1301 | 1-815-743-11 | JACK, PIN 2P | | R1207 | 1-259-991-11 | CARBON MELF | 470 2% 1/8W |
| | | (ANALOG 5.1CH OUT SURROUND) | | R1208 | 1-259-991-11 | CARBON MELF | 470 2% 1/8W |
| | | | | R1209 | 1-259-998-11 | CARBON MELF | 1.8K 2% 1/8W |
| | | | | R1210 | 1-259-998-11 | CARBON MELF | 1.8K 2% 1/8W |
| | | | | R1211 | 1-259-925-11 | CARBON MELF | 1.6K 2% 1/8W |
| | | | | R1212 | 1-259-998-11 | CARBON MELF | 1.8K 2% 1/8W |

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 pièce portant le numéro spécifié.

AUDIO SURR

D.OUT

D-POWER

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------|--------|
| R1213 | 1-259-998-11 | CARBON MELF 1.8K 2% | 1/8W |
| R1214 | 1-259-925-11 | CARBON MELF 1.6K 2% | 1/8W |
| R1215 | 1-260-002-11 | CARBON MELF 3.3K 2% | 1/8W |
| R1216 | 1-260-001-11 | CARBON MELF 2.7K 2% | 1/8W |
| R1217 | 1-260-002-11 | CARBON MELF 3.3K 2% | 1/8W |
| R1218 | 1-260-028-11 | CARBON MELF 470K 2% | 1/8W |
| R1219 | 1-259-971-11 | CARBON MELF 10 2% | 1/8W |
| R1220 | 1-259-983-11 | CARBON MELF 100 2% | 1/8W |

< RELAY >

| | | |
|--------|--------------|-------|
| RY1151 | 1-755-295-11 | RELAY |
| RY1152 | 1-755-295-11 | RELAY |

A-4726-337-A D.OUT BOARD, COMPLETE

< CAPACITOR >

| | | | |
|------|--------------|-----------------------|------|
| C441 | 1-136-850-11 | MYLAR 0.1uF 5% | 63V |
| C442 | 1-104-645-11 | CERAMIC 1uF 20% | 50V |
| C443 | 1-163-251-11 | CERAMIC CHIP 100PF 5% | 50V |
| C444 | 1-164-732-11 | CERAMIC 0.1uF 20% | 50V |
| C445 | 1-164-732-11 | CERAMIC 0.1uF 20% | 50V |
| C446 | 1-107-611-11 | CAPACITOR 100PF 5% | 500V |
| C447 | 1-136-850-11 | MYLAR 0.1uF 5% | 63V |
| C448 | 1-119-824-31 | ELECT 10uF 20% | 50V |

< CONNECTOR >

| | | |
|-------|--------------|-------------------|
| CN441 | 1-506-468-11 | PIN, CONNECTOR 3P |
|-------|--------------|-------------------|

< IC >

| | | |
|-------|--------------|---------------------------------------|
| IC441 | 8-759-591-61 | IC TC7WHU04FU (TE12R) |
| IC442 | 8-749-012-69 | IC GP1F38T (DIGITAL (CD) OUT OPTICAL) |

< JACK >

| | | |
|------|--------------|---|
| J391 | 1-770-905-21 | JACK, PIN 1P (DIGITAL (CD) OUT COAXIAL) |
|------|--------------|---|

< RESISTOR >

| | | | |
|------|--------------|-------------------|-------|
| R441 | 1-216-033-00 | METAL CHIP 220 5% | 1/10W |
| R442 | 1-216-022-00 | METAL CHIP 75 5% | 1/10W |

< COIL >

| | | |
|------|--------------|------------------|
| T441 | 1-416-701-11 | COIL (WITH CORE) |
|------|--------------|------------------|

A-4726-335-A D-POWER BOARD, COMPLETE

< CAPACITOR >

| | | | |
|------|--------------|--------------------|------|
| C451 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| C452 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| C453 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| C454 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| C455 | 1-128-562-11 | ELECT 47uF 20% | 100V |
| C456 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C457 | 1-128-562-11 | ELECT 47uF 20% | 100V |
| C458 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C459 | 1-136-850-11 | MYLAR 0.1uF 5% | 63V |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|----------------|--------|
| C460 | 1-136-850-11 | MYLAR 0.1uF 5% | 63V |
| C461 | 1-135-748-11 | ELECT 4700uF | 35V |
| C463 | 1-135-698-11 | ELECT 10000uF | 16V |
| C467 | 1-136-850-11 | MYLAR 0.1uF 5% | 63V |
| C469 | 1-135-748-11 | ELECT 4700uF | 35V |

< CONNECTOR >

| | | |
|-------|--------------|---------------------------|
| CN451 | 1-691-768-11 | PLUG (MICRO CONNECTOR) 6P |
| CN453 | 1-568-955-11 | PIN, CONNECTOR 6P |
| CN456 | 1-564-505-11 | PLUG, CONNECTOR 2P |
| CN457 | 1-564-505-21 | PLUG, CONNECTOR 2P |

< DIODE >

| | | |
|------|--------------|---------------------|
| D421 | 8-719-083-67 | DIODE UDZSTE-1720B |
| D422 | 8-719-083-58 | DIODE DTZ-TT11-3.9B |
| D423 | 8-719-083-67 | DIODE UDZSTE-1720B |
| D451 | 8-719-210-33 | DIODE EC10DS2TE12L |
| D452 | 8-719-210-33 | DIODE EC10DS2TE12L |
| D453 | 8-719-210-33 | DIODE EC10DS2TE12L |
| D454 | 8-719-210-33 | DIODE EC10DS2TE12L |
| D455 | 8-719-210-33 | DIODE EC10DS2TE12L |
| D456 | 8-719-210-33 | DIODE EC10DS2TE12L |
| D457 | 8-719-210-33 | DIODE EC10DS2TE12L |

| | | |
|------|--------------|--------------------|
| D458 | 8-719-210-33 | DIODE EC10DS2TE12L |
|------|--------------|--------------------|

< FUSIBLE RESISTOR >

| | | | |
|--------|--------------|---------------|------|
| △FR451 | 1-212-877-11 | FUSIBLE 68 5% | 1/4W |
|--------|--------------|---------------|------|

< IC >

| | | |
|-------|--------------|----------|
| IC451 | 8-759-394-35 | IC BA12T |
|-------|--------------|----------|

< COIL/NOISE FILTER >

| | | |
|------|--------------|---------------|
| L451 | 1-412-473-51 | INDUCTOR 0uH |
| L452 | 1-412-473-51 | INDUCTOR 0uH |
| L453 | 1-424-122-11 | FILTER, NOISE |
| L454 | 1-424-122-11 | FILTER, NOISE |
| L455 | 1-424-122-11 | FILTER, NOISE |
| L456 | 1-424-122-11 | FILTER, NOISE |
| L461 | 1-424-122-11 | FILTER, NOISE |
| L462 | 1-424-122-11 | FILTER, NOISE |

< TRANSISTOR >

| | | |
|------|--------------|---------------------------|
| Q451 | 8-729-209-71 | TRANSISTOR 2SA12130-TE12L |
|------|--------------|---------------------------|

< RESISTOR >

| | | | |
|------|--------------|-------------------|-------|
| R451 | 1-216-081-00 | METAL CHIP 22K 5% | 1/10W |
| R452 | 1-216-105-00 | RES-CHIP 220K 5% | 1/10W |
| R453 | 1-216-079-00 | METAL CHIP 18K 5% | 1/10W |
| R454 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R455 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R456 | 1-216-073-11 | RES-CHIP 10K 5% | 1/10W |
| R461 | 1-216-061-00 | RES-CHIP 3.3K 5% | 1/10W |
| R462 | 1-216-081-00 | METAL CHIP 22K 5% | 1/10W |
| R463 | 1-216-013-00 | METAL CHIP 33 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 pièce portant le numéro spécifié.

SCD-XA777ES

| | | | | | |
|----------------|-----------|------------|------------|----------------------|-------------|
| D-POWER | HP | JOG | KEY | LOADING MOTOR | MAIN |
|----------------|-----------|------------|------------|----------------------|-------------|

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|--|--------|
| | | < THERMISTOR (POSITIVE) > | |
| THP450 | 1-801-578-11 | THERMISTOR, POSITIVE | |
| ***** | | | |
| | A-4726-342-A | HP BOARD, COMPLETE | |
| ***** | | | |
| | | < CAPACITOR > | |
| C430 | 1-163-141-00 | CERAMIC CHIP 0.001uF 5% | 50V |
| C431 | 1-163-141-00 | CERAMIC CHIP 0.001uF 5% | 50V |
| C432 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| | | < CONNECTOR > | |
| * CN430 | 1-568-952-91 | PIN, CONNECTOR (STRAIGHT) 3P | |
| | | < JACK > | |
| J430 | 1-770-307-11 | JACK (LARGE TYPE) (PHONES) | |
| | | < FERRITE BEAD > | |
| L430 | 1-414-234-22 | FERRITE BEAD | |
| L431 | 1-414-234-22 | FERRITE BEAD | |
| L432 | 1-414-234-22 | FERRITE BEAD | |
| | | < VARIABLE RESISTOR > | |
| RV430 | 1-227-403-11 | RES, VAR, CARBON 1K/1K (PHONE LEVEL) | |
| ***** | | | |
| | 1-682-055-11 | JOG BOARD | |
| ***** | | | |
| | | < ROTARY ENCODER > | |
| RY1001 | 1-475-006-11 | ENCODER, ROTARY ([<<] AMS [>>], PUSH ENTER) | |
| ***** | | | |
| | A-4726-339-A | KEY BOARD, COMPLETE | |
| ***** | | | |
| | | < CONNECTOR > | |
| * CN1004 | 1-506-486-11 | PIN, CONNECTOR 7P | |
| * CN1005 | 1-568-941-11 | PIN, CONNECTOR 3P | |
| | | < RESISTOR > | |
| R1055 | 1-216-045-00 | METAL CHIP 680 5% | 1/10W |
| R1056 | 1-216-049-11 | RES-CHIP 1K 5% | 1/10W |
| R1057 | 1-216-053-00 | METAL CHIP 1.5K 5% | 1/10W |
| R1063 | 1-216-029-00 | METAL CHIP 150 5% | 1/10W |
| R1064 | 1-216-029-00 | METAL CHIP 150 5% | 1/10W |
| | | < SWITCH > | |
| S1005 | 1-570-101-51 | SWITCH, KEY BOARD (SACD/CD) | |
| S1006 | 1-554-303-21 | SWITCH, TACTILE (TIME/TEXT) | |
| S1007 | 1-570-101-51 | SWITCH, KEY BOARD (MULTI/2CH) | |
| S1008 | 1-554-303-21 | SWITCH, TACTILE (MENU) | |
| ***** | | | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------|--------|
| * | 1-641-765-13 | LOADING MOTOR BOARD | |
| ***** | | | |
| | A-4726-087-A | MAIN BOARD, COMPLETE | |
| ***** | | | |
| | | < CAPACITOR > | |
| C506 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V |
| C507 | 1-165-176-11 | CERAMIC CHIP 0.047uF 10% | 16V |
| C508 | 1-165-176-11 | CERAMIC CHIP 0.047uF 10% | 16V |
| C509 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V |
| C510 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V |
| C511 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V |
| C513 | 1-115-156-11 | CERAMIC CHIP 1uF | 10V |
| C516 | 1-162-966-11 | CERAMIC CHIP 0.0022uF 10% | 50V |
| C517 | 1-125-822-11 | TANTALUM 10uF 20% | 10V |
| C518 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C519 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C520 | 1-126-395-11 | ELECT 22uF 20% | 16V |
| C521 | 1-162-965-11 | CERAMIC CHIP 0.0015uF 10% | 50V |
| C523 | 1-162-965-11 | CERAMIC CHIP 0.0015uF 10% | 50V |
| C525 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V |
| C526 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V |
| C527 | 1-164-739-11 | CERAMIC CHIP 560PF 5% | 50V |
| C528 | 1-125-822-11 | TANTALUM 10uF 20% | 10V |
| C529 | 1-164-739-11 | CERAMIC CHIP 560PF 5% | 50V |
| C530 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V |
| C531 | 1-165-176-11 | CERAMIC CHIP 0.047uF 10% | 16V |
| C532 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V |
| C533 | 1-162-966-11 | CERAMIC CHIP 0.0022uF 10% | 50V |
| C534 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% | 25V |
| C535 | 1-162-966-11 | CERAMIC CHIP 0.0022uF 10% | 50V |
| C536 | 1-125-891-11 | CERAMIC CHIP 0.47uF 10% | 10V |
| C539 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V |
| C541 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V |
| C542 | 1-125-891-11 | CERAMIC CHIP 0.47uF 10% | 10V |
| C543 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C544 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V |
| C545 | 1-125-822-11 | TANTALUM 10uF 20% | 10V |
| C547 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C548 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% | 25V |
| C549 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V |
| C550 | 1-162-963-11 | CERAMIC CHIP 680PF 10% | 50V |
| C551 | 1-125-891-11 | CERAMIC CHIP 0.47uF 10% | 10V |
| C553 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% | 25V |
| C554 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V |
| C555 | 1-162-963-11 | CERAMIC CHIP 680PF 10% | 50V |
| C556 | 1-125-822-11 | TANTALUM 10uF 20% | 10V |
| C558 | 1-162-963-11 | CERAMIC CHIP 680PF 10% | 50V |
| C559 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V |
| C560 | 1-162-965-11 | CERAMIC CHIP 0.0015uF 10% | 50V |
| C561 | 1-115-156-11 | CERAMIC CHIP 1uF | 10V |
| C562 | 1-162-963-11 | CERAMIC CHIP 680PF 10% | 50V |
| C563 | 1-162-927-11 | CERAMIC CHIP 100PF 5% | 50V |
| C565 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V |
| C567 | 1-115-156-11 | CERAMIC CHIP 1uF | 10V |
| C568 | 1-125-822-11 | TANTALUM 10uF 20% | 10V |

| Ref. No. | Part No. | Description | | Remark | Ref. No. | Part No. | Description | | Remark | | |
|----------|--------------|--------------|----------|--------|----------|----------|--------------|--------------|----------|-----|------|
| C569 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C767 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C570 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C768 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C572 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V | C769 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C573 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | C770 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C577 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C771 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V |
| C579 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C772 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C582 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C773 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V |
| C583 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C774 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| C584 | 1-126-395-11 | ELECT | 22uF | 20% | 16V | C775 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C587 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C776 | 1-115-156-11 | CERAMIC CHIP | 1uF | 10V | |
| C588 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C777 | 1-115-156-11 | CERAMIC CHIP | 1uF | 10V | |
| C589 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C778 | 1-115-156-11 | CERAMIC CHIP | 1uF | 10V | |
| C590 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | C779 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C591 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C780 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C592 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C781 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C701 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C790 | 1-126-204-11 | ELECT CHIP | 47uF | 20% | 16V |
| C702 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C791 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C704 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V | C792 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C705 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V | C793 | 1-126-246-11 | ELECT CHIP | 220uF | 20% | 4V |
| C706 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V | C794 | 1-126-246-11 | ELECT CHIP | 220uF | 20% | 4V |
| C707 | 1-162-921-11 | CERAMIC CHIP | 33PF | 5% | 50V | C795 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C708 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | C796 | 1-115-156-11 | CERAMIC CHIP | 1uF | 10V | |
| C709 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V | C797 | 1-127-745-21 | ELECT CHIP | 22uF | 20% | 6.3V |
| C711 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C800 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C712 | 1-164-816-11 | CERAMIC CHIP | 220PF | 2% | 50V | C802 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C713 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C803 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C714 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V | C804 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C715 | 1-162-967-11 | CERAMIC CHIP | 0.0033uF | 10% | 50V | C807 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C716 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V | C808 | 1-162-921-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C717 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C809 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C718 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C810 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C720 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C811 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C721 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C812 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C722 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C813 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C723 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C815 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C724 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V | C817 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C725 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C818 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C726 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V | C819 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C727 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C837 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C728 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C838 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C729 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C839 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C730 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C840 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C731 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C841 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C740 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C842 | 1-115-156-11 | CERAMIC CHIP | 1uF | 10V | |
| C741 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C843 | 1-115-156-11 | CERAMIC CHIP | 1uF | 10V | |
| C742 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C846 | 1-126-204-11 | ELECT CHIP | 47uF | 20% | 16V |
| C743 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C847 | 1-115-156-11 | CERAMIC CHIP | 1uF | 10V | |
| C744 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C848 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C745 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C849 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C752 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V | C850 | 1-162-945-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C760 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C851 | 1-162-945-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C761 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C852 | 1-162-945-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C762 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C854 | 1-115-156-11 | CERAMIC CHIP | 1uF | 10V | |
| C763 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C855 | 1-115-156-11 | CERAMIC CHIP | 1uF | 10V | |
| C764 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C856 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C765 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C857 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | |
| C766 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | C858 | 1-126-204-11 | ELECT CHIP | 47uF | 20% | 16V |
| | | | | | | C860 | 1-115-156-11 | CERAMIC CHIP | 1uF | 10V | |

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-----------------------|-----------------|----------|--------------|-------------|-----------------|
| | | < IC > | | R560 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| IC502 | 8-759-567-26 | IC BA5983FP-E2 | | R561 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| IC503 | 8-759-701-40 | IC NJM3404AM-T1 | | R562 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| IC504 | 8-759-473-95 | IC uPC2905T-E1 | | R563 | 1-216-797-11 | METAL CHIP | 10 5% 1/16W |
| IC509 | 8-752-397-42 | IC CXD3008Q | | R569 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| IC512 | 8-759-490-71 | IC BA5912AFP-YE2 | | R572 | 1-216-797-11 | METAL CHIP | 10 5% 1/16W |
| IC701 | 8-752-414-94 | IC CXD1882R-1 | | R573 | 1-216-797-11 | METAL CHIP | 10 5% 1/16W |
| IC702 | 8-759-637-50 | IC TA48M025F (TE16L) | | R577 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| IC703 | 8-759-701-40 | IC NJM3404AM-T1 | | R578 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| IC706 | 8-759-543-83 | IC GM71VS18163CLT-6TR | | R581 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| IC708 | 8-759-701-40 | IC NJM3404AM-T1 | | R582 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| IC801 | 8-752-407-50 | IC CXD2752R | | R584 | 1-218-728-11 | METAL CHIP | 33K 0.5% 1/16W |
| IC803 | 8-759-833-14 | IC CXD9647R | | R586 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| IC808 | 8-759-573-19 | IC MT48LC1M16A1TG-7S | | R588 | 1-218-716-11 | METAL CHIP | 10K 0.5% 1/16W |
| IC811 | 8-759-549-25 | IC SN74LVU04APWR | | R589 | 1-218-728-11 | METAL CHIP | 33K 0.5% 1/16W |
| IC812 | 8-759-549-15 | IC SN74LV245APWR | | R590 | 1-218-716-11 | METAL CHIP | 10K 0.5% 1/16W |
| IC813 | 8-759-549-15 | IC SN74LV245APWR | | R591 | 1-218-702-11 | METAL CHIP | 2.7K 0.5% 1/16W |
| IC814 | 8-759-649-33 | IC SN74AHCT1G08DCKR | | R592 | 1-218-708-11 | METAL CHIP | 4.7K 0.5% 1/16W |
| IC901 | 8-752-920-81 | IC CXP973F064R-1 | | R593 | 1-218-740-11 | METAL CHIP | 100K 0.5% 1/16W |
| IC902 | 8-752-392-03 | IC CXD1095BR | | R594 | 1-218-728-11 | METAL CHIP | 33K 0.5% 1/16W |
| IC903 | 8-759-487-04 | IC BR24C02F-E2 | | R595 | 1-218-708-11 | METAL CHIP | 4.7K 0.5% 1/16W |
| IC904 | 8-759-685-33 | IC BU2500FV-E2 | | R596 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| IC905 | 8-759-636-64 | IC M51957BFP-600C | | R597 | 1-218-716-11 | METAL CHIP | 10K 0.5% 1/16W |
| IC906 | 8-759-645-76 | IC TC74VHCT32AFT | | R599 | 1-218-702-11 | METAL CHIP | 2.7K 0.5% 1/16W |
| | | < COIL > | | R600 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| L801 | 1-410-369-11 | INDUCTOR CHIP 1uH | | R601 | 1-218-724-11 | METAL CHIP | 22K 0.5% 1/16W |
| L802 | 1-410-369-11 | INDUCTOR CHIP 1uH | | R602 | 1-218-708-11 | METAL CHIP | 4.7K 0.5% 1/16W |
| L803 | 1-410-369-11 | INDUCTOR CHIP 1uH | | R603 | 1-218-704-11 | METAL CHIP | 3.3K 0.5% 1/16W |
| | | < RESISTOR > | | R604 | 1-218-692-11 | METAL CHIP | 1K 0.5% 1/16W |
| R501 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R605 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R502 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R606 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W |
| R509 | 1-218-736-11 | METAL CHIP | 68K 0.5% 1/16W | R607 | 1-218-708-11 | METAL CHIP | 4.7K 0.5% 1/16W |
| R510 | 1-218-736-11 | METAL CHIP | 68K 0.5% 1/16W | R608 | 1-218-716-11 | METAL CHIP | 10K 0.5% 1/16W |
| R511 | 1-218-740-11 | METAL CHIP | 100K 0.5% 1/16W | R609 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R512 | 1-218-740-11 | METAL CHIP | 100K 0.5% 1/16W | R610 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R513 | 1-216-797-11 | METAL CHIP | 10 5% 1/16W | R611 | 1-218-724-11 | METAL CHIP | 22K 0.5% 1/16W |
| R515 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W | R612 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R516 | 1-216-797-11 | METAL CHIP | 10 5% 1/16W | R613 | 1-216-857-11 | METAL CHIP | 1M 5% 1/16W |
| R518 | 1-216-797-11 | METAL CHIP | 10 5% 1/16W | R617 | 1-216-857-11 | METAL CHIP | 1M 5% 1/16W |
| R520 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W | R618 | 1-218-911-11 | METAL CHIP | 470K 0.5% 1/16W |
| R522 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W | R619 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R523 | 1-216-797-11 | METAL CHIP | 10 5% 1/16W | R622 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R529 | 1-218-748-11 | METAL CHIP | 220K 0.5% 1/16W | R625 | 1-216-815-11 | METAL CHIP | 330 5% 1/16W |
| R530 | 1-218-748-11 | METAL CHIP | 220K 0.5% 1/16W | R629 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R534 | 1-218-704-11 | METAL CHIP | 3.3K 0.5% 1/16W | R632 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R538 | 1-218-740-11 | METAL CHIP | 100K 0.5% 1/16W | R634 | 1-216-831-11 | METAL CHIP | 6.8K 5% 1/16W |
| R540 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R642 | 1-216-839-11 | METAL CHIP | 33K 5% 1/16W |
| R541 | 1-218-740-11 | METAL CHIP | 100K 0.5% 1/16W | R644 | 1-216-797-11 | METAL CHIP | 10 5% 1/16W |
| R544 | 1-218-740-11 | METAL CHIP | 100K 0.5% 1/16W | R645 | 1-216-797-11 | METAL CHIP | 10 5% 1/16W |
| R545 | 1-218-740-11 | METAL CHIP | 100K 0.5% 1/16W | R654 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R554 | 1-216-827-11 | METAL CHIP | 3.3K 5% 1/16W | R655 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R555 | 1-218-704-11 | METAL CHIP | 3.3K 0.5% 1/16W | R656 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R556 | 1-216-827-11 | METAL CHIP | 3.3K 5% 1/16W | R657 | 1-218-700-11 | METAL CHIP | 2.2K 0.5% 1/16W |
| R558 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W | R658 | 1-218-700-11 | METAL CHIP | 2.2K 0.5% 1/16W |
| R559 | 1-216-797-11 | METAL CHIP | 10 5% 1/16W | R659 | 1-218-700-11 | METAL CHIP | 2.2K 0.5% 1/16W |
| | | | | R660 | 1-218-700-11 | METAL CHIP | 2.2K 0.5% 1/16W |
| | | | | R661 | 1-216-296-11 | SHORT | 0 |
| | | | | R670 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |

SCD-XA777ES

MAIN

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------|-----------------|----------|--------------|-------------|-----------------|
| R671 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R772 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| R672 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R773 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R674 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | R776 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R675 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | R778 | 1-218-740-11 | METAL CHIP | 100K 0.5% 1/16W |
| R701 | 1-218-748-11 | METAL CHIP | 220K 0.5% 1/16W | R780 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R702 | 1-218-740-11 | METAL CHIP | 100K 0.5% 1/16W | R786 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R703 | 1-218-740-11 | METAL CHIP | 100K 0.5% 1/16W | R800 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W |
| R704 | 1-218-748-11 | METAL CHIP | 220K 0.5% 1/16W | R818 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R705 | 1-218-740-11 | METAL CHIP | 100K 0.5% 1/16W | R821 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| R706 | 1-218-740-11 | METAL CHIP | 100K 0.5% 1/16W | R822 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| R707 | 1-218-668-11 | METAL CHIP | 100 0.5% 1/16W | R826 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| R708 | 1-216-857-11 | METAL CHIP | 1M 5% 1/16W | R827 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R709 | 1-218-736-11 | METAL CHIP | 68K 0.5% 1/16W | R828 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W |
| R710 | 1-218-716-11 | METAL CHIP | 10K 0.5% 1/16W | R829 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R711 | 1-218-700-11 | METAL CHIP | 2.2K 0.5% 1/16W | R830 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W |
| R712 | 1-218-716-11 | METAL CHIP | 10K 0.5% 1/16W | R831 | 1-216-839-11 | METAL CHIP | 33K 5% 1/16W |
| R713 | 1-218-716-11 | METAL CHIP | 10K 0.5% 1/16W | R839 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/16W |
| R714 | 1-218-716-11 | METAL CHIP | 10K 0.5% 1/16W | R842 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R716 | 1-218-668-11 | METAL CHIP | 100 0.5% 1/16W | R847 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| R717 | 1-218-740-11 | METAL CHIP | 100K 0.5% 1/16W | R848 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| R718 | 1-218-716-11 | METAL CHIP | 10K 0.5% 1/16W | R849 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| R719 | 1-218-692-11 | METAL CHIP | 1K 0.5% 1/16W | R850 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| R720 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W | R853 | 1-216-813-11 | METAL CHIP | 220 5% 1/16W |
| R721 | 1-218-728-11 | METAL CHIP | 33K 0.5% 1/16W | R854 | 1-216-813-11 | METAL CHIP | 220 5% 1/16W |
| R724 | 1-218-692-11 | METAL CHIP | 1K 0.5% 1/16W | R855 | 1-216-813-11 | METAL CHIP | 220 5% 1/16W |
| R725 | 1-218-716-11 | METAL CHIP | 10K 0.5% 1/16W | R858 | 1-216-819-11 | METAL CHIP | 680 5% 1/16W |
| R726 | 1-218-740-11 | METAL CHIP | 100K 0.5% 1/16W | R859 | 1-216-819-11 | METAL CHIP | 680 5% 1/16W |
| R727 | 1-218-704-11 | METAL CHIP | 3.3K 0.5% 1/16W | R860 | 1-216-819-11 | METAL CHIP | 680 5% 1/16W |
| R728 | 1-218-716-11 | METAL CHIP | 10K 0.5% 1/16W | R861 | 1-216-813-11 | METAL CHIP | 220 5% 1/16W |
| R729 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W | R870 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R730 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W | R875 | 1-216-830-11 | METAL CHIP | 5.6K 5% 1/16W |
| R731 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W | R876 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R732 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R882 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R733 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R883 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R734 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R884 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R735 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R885 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R736 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R886 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R737 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R887 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R738 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R888 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R740 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R889 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R741 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W | R900 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R742 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W | R901 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| R743 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W | R902 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| R744 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W | R903 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| R745 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W | R904 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| R746 | 1-216-841-11 | METAL CHIP | 47K 5% 1/16W | R905 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| R750 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W | R906 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| R761 | 1-218-700-11 | METAL CHIP | 2.2K 0.5% 1/16W | R907 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| R762 | 1-218-724-11 | METAL CHIP | 22K 0.5% 1/16W | R908 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| R763 | 1-218-714-11 | METAL CHIP | 8.2K 0.5% 1/16W | R909 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| R764 | 1-216-857-11 | METAL CHIP | 1M 5% 1/16W | R911 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W |
| R765 | 1-218-724-11 | METAL CHIP | 22K 0.5% 1/16W | R912 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R767 | 1-218-732-11 | METAL CHIP | 47K 0.5% 1/16W | R913 | 1-216-833-11 | METAL CHIP | 10K 5% 1/16W |
| R768 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W | R915 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |
| R769 | 1-218-700-11 | METAL CHIP | 2.2K 0.5% 1/16W | R916 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R770 | 1-216-864-11 | METAL CHIP | 0 5% 1/16W | R917 | 1-216-821-11 | METAL CHIP | 1K 5% 1/16W |
| R771 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W | R919 | 1-216-801-11 | METAL CHIP | 22 5% 1/16W |
| | | | | R920 | 1-216-809-11 | METAL CHIP | 100 5% 1/16W |

MOTHER

| Ref. No. | Part No. | Description | Remark |
|----------------------|--------------|----------------------------------|--------|
| C359 | 1-136-818-11 | FILM 0.0047uF 5% | 100V |
| C360 | 1-128-201-11 | ELECT 100uF 20% | 63V |
| C361 | 1-128-201-11 | ELECT 100uF 20% | 63V |
| C362 | 1-117-775-31 | ELECT 0.1uF 10% | 250V |
| C363 | 1-136-810-11 | FILM 220PF 5% | 100V |
| C364 | 1-136-818-11 | FILM 0.0047uF 5% | 100V |
| C365 | 1-128-201-11 | ELECT 100uF 20% | 63V |
| C366 | 1-128-201-11 | ELECT 100uF 20% | 63V |
| C367 | 1-117-775-31 | ELECT 0.1uF 10% | 250V |
| C368 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C369 | 1-130-973-00 | MYLAR 0.022uF 5% | 100V |
| C370 | 1-163-117-00 | CERAMIC CHIP 100PF 5% | 50V |
| C371 | 1-163-117-00 | CERAMIC CHIP 100PF 5% | 50V |
| C372 | 1-119-791-21 | ELECT 330uF 20% | 16V |
| C380 | 1-163-117-00 | CERAMIC CHIP 100PF 5% | 50V |
| C381 | 1-163-117-00 | CERAMIC CHIP 100PF 5% | 50V |
| C382 | 1-119-791-21 | ELECT 330uF 20% | 16V |
| C390 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C391 | 1-119-801-21 | ELECT 220uF 20% | 16V |
| C392 | 1-119-801-21 | ELECT 220uF 20% | 16V |
| < CONNECTOR > | | | |
| CN301 | 1-770-167-11 | CONNECTOR, FFC/FPC 19P | |
| CN302 | 1-770-167-11 | CONNECTOR, FFC/FPC 19P | |
| CN304 | 1-774-628-11 | CONNECTOR, BOARD TO BOARD 17P | |
| CN305 | 1-766-956-11 | CONNECTOR, BOARD TO BOARD 15P | |
| CN306 | 1-766-956-11 | CONNECTOR, BOARD TO BOARD 15P | |
| * CN352 | 1-770-723-11 | CONNECTOR, BOARD TO BOARD 8P | |
| * CN353 | 1-770-723-11 | CONNECTOR, BOARD TO BOARD 8P | |
| * CN354 | 1-770-723-11 | CONNECTOR, BOARD TO BOARD 8P | |
| * CN392 | 1-568-952-91 | PIN, CONNECTOR (STRAIGHT) 3P | |
| < DIODE > | | | |
| D301 | 8-719-049-09 | DIODE 1SS367-T3SONY | |
| D351 | 8-719-016-74 | DIODE 1SS352-TPH3 | |
| D390 | 8-719-069-60 | DIODE UDZSTE-179.1B | |
| D391 | 8-719-016-74 | DIODE 1SS352-TPH3 | |
| < FERRITE BEAD > | | | |
| FB301 | 1-414-234-22 | INDUCTOR, FERRITE (US, Canadian) | |
| < FUSIBLE RESISTOR > | | | |
| △ FR390 | 1-212-881-11 | FUSIBLE 100 5% | 1/4W |
| △ FR391 | 1-212-889-00 | FUSIBLE 220 5% | 1/4W |
| △ FR392 | 1-212-889-00 | FUSIBLE 220 5% | 1/4W |
| < IC > | | | |
| IC301 | 8-759-486-55 | IC NJM2370U33-TE2 | |
| IC302 | 8-759-591-61 | IC TC7WHU04FU (TE12R) | |
| IC303 | 6-700-067-01 | IC HD74LV161ATELL | |
| IC304 | 6-700-066-01 | IC HD74LV157ATELL | |
| IC305 | 6-700-066-01 | IC HD74LV157ATELL | |
| IC306 | 6-700-066-01 | IC HD74LV157ATELL | |
| IC307 | 6-700-066-01 | IC HD74LV157ATELL | |
| IC308 | 6-700-066-01 | IC HD74LV157ATELL | |
| IC351 | 8-759-566-39 | IC OPA2132UA/2K5 | |
| IC352 | 8-759-566-39 | IC OPA2132UA/2K5 | |

| Ref. No. | Part No. | Description | Remark |
|----------------|--------------|-------------------------------|----------------------|
| IC371 | 8-759-711-85 | IC NJM4580E-D | |
| < JACK > | | | |
| J351 | 1-815-742-11 | JACK, PIN 2P (ANALOG 2CH OUT) | |
| < COIL > | | | |
| L301 | 1-424-153-11 | FILTER, NOISE | |
| L371 | 1-408-619-31 | INDUCTOR 220uH | |
| L381 | 1-408-619-31 | INDUCTOR 220uH | |
| < TRANSISTOR > | | | |
| Q371 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | |
| Q381 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | |
| Q391 | 8-729-900-53 | TRANSISTOR DTC114EKA-T146 | |
| Q392 | 8-729-207-71 | TRANSISTOR RN2405-TE85L | |
| Q393 | 8-729-027-38 | TRANSISTOR DTA144EKA-T146 | |
| < RESISTOR > | | | |
| R301 | 1-216-041-00 | METAL CHIP 470 5% | 1/10W |
| R302 | 1-260-032-11 | CARBON MELF 1M 2% | 1/8W |
| R303 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R304 | 1-216-033-00 | METAL CHIP 220 5% | 1/10W |
| R305 | 1-216-033-00 | METAL CHIP 220 5% | 1/10W |
| R306 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W (AEP) |
| R306 | 1-216-029-00 | RES-CHIP 150 5% | 1/10W (US, Canadian) |
| R307 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R308 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R309 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R310 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R311 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R312 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R313 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R314 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R315 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R316 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R317 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R318 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R319 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R320 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R321 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R322 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| △ R323 | 1-212-865-00 | FUSIBLE 22 5% | 1/4W |
| R324 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R325 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R326 | 1-216-073-11 | RES-CHIP 10K 5% | 1/10W |
| R327 | 1-216-073-11 | RES-CHIP 10K 5% | 1/10W |
| R328 | 1-216-073-11 | RES-CHIP 10K 5% | 1/10W |
| R351 | 1-260-008-11 | CARBON MELF 10K 2% | 1/8W |
| R352 | 1-260-008-11 | CARBON MELF 10K 2% | 1/8W |
| R353 | 1-260-008-11 | CARBON MELF 10K 2% | 1/8W |
| R354 | 1-260-002-11 | CARBON MELF 3.3K 2% | 1/8W |
| R355 | 1-260-001-11 | CARBON MELF 2.7K 2% | 1/8W |
| R356 | 1-260-002-11 | CARBON MELF 3.3K 2% | 1/8W |
| R357 | 1-259-971-11 | CARBON MELF 10 2% | 1/8W |
| R358 | 1-259-983-11 | CARBON MELF 100 2% | 1/8W |
| R359 | 1-260-028-11 | CARBON MELF 470K 2% | 1/8W |

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 pièce portant le numéro spécifié.

MOTHER

PANEL

| Ref. No. | Part No. | Description | Remark |
|----------------|-------------------------|--------------------------------|----------|
| R360 | 1-260-002-11 | CARBON MELF 3.3K | 2% 1/8W |
| R361 | 1-260-008-11 | CARBON MELF 10K | 2% 1/8W |
| R362 | 1-260-008-11 | CARBON MELF 10K | 2% 1/8W |
| R363 | 1-260-008-11 | CARBON MELF 10K | 2% 1/8W |
| R364 | 1-260-002-11 | CARBON MELF 3.3K | 2% 1/8W |
| R365 | 1-260-001-11 | CARBON MELF 2.7K | 2% 1/8W |
| R366 | 1-260-002-11 | CARBON MELF 3.3K | 2% 1/8W |
| R367 | 1-259-971-11 | CARBON MELF 10 | 2% 1/8W |
| R368 | 1-259-983-11 | CARBON MELF 100 | 2% 1/8W |
| R369 | 1-260-028-11 | CARBON MELF 470K | 2% 1/8W |
| R370 | 1-260-002-11 | CARBON MELF 3.3K | 2% 1/8W |
| R371 | 1-216-093-11 | RES-CHIP 68K | 5% 1/10W |
| R372 | 1-216-085-11 | RES-CHIP 33K | 5% 1/10W |
| R373 | 1-216-085-11 | RES-CHIP 33K | 5% 1/10W |
| R374 | 1-216-093-11 | RES-CHIP 68K | 5% 1/10W |
| R375 | 1-216-065-00 | RES-CHIP 4.7K | 5% 1/10W |
| R376 | 1-216-019-00 | METAL CHIP 56 | 5% 1/10W |
| R381 | 1-216-085-11 | RES-CHIP 33K | 5% 1/10W |
| R382 | 1-216-093-11 | RES-CHIP 68K | 5% 1/10W |
| R383 | 1-216-085-11 | RES-CHIP 33K | 5% 1/10W |
| R384 | 1-216-093-11 | RES-CHIP 68K | 5% 1/10W |
| R385 | 1-216-065-00 | RES-CHIP 4.7K | 5% 1/10W |
| R386 | 1-216-019-00 | METAL CHIP 56 | 5% 1/10W |
| R390 | 1-216-081-00 | METAL CHIP 22K | 5% 1/10W |
| R391 | 1-216-081-00 | METAL CHIP 22K | 5% 1/10W |
| R392 | 1-216-105-00 | RES-CHIP 220K | 5% 1/10W |
| R393 | 1-216-097-11 | RES-CHIP 100K | 5% 1/10W |
| R394 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W |
| < RELAY > | | | |
| RY351 | 1-755-295-11 | RELAY | |
| < VIBRATOR > | | | |
| X301 | 1-767-406-21 | VIBRATOR, CRYSTAL (11.2896MHz) | |
| ***** | | | |
| A-4726-338-A | PANEL BOARD, COMPLETE | | |
| ***** | | | |
| * 3-362-478-01 | HOLDER (T), LED | | |
| * 4-945-292-01 | HOLDER, INDICATION TUBE | | |
| < CAPACITOR > | | | |
| C1001 | 1-126-177-11 | ELECT 100uF | 20% 10V |
| C1002 | 1-107-725-11 | CERAMIC CHIP 0.1uF | 10% 16V |
| C1003 | 1-107-725-11 | CERAMIC CHIP 0.1uF | 10% 16V |
| C1004 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V |
| C1005 | 1-163-009-11 | CERAMIC CHIP 0.001uF | 10% 50V |
| C1006 | 1-107-725-11 | CERAMIC CHIP 0.1uF | 10% 16V |
| C1007 | 1-107-725-11 | CERAMIC CHIP 0.1uF | 10% 16V |
| C1008 | 1-107-725-11 | CERAMIC CHIP 0.1uF | 10% 16V |
| C1010 | 1-163-009-11 | CERAMIC CHIP 0.001uF | 10% 50V |
| C1011 | 1-163-009-11 | CERAMIC CHIP 0.001uF | 10% 50V |
| C1012 | 1-163-009-11 | CERAMIC CHIP 0.001uF | 10% 50V |
| C1013 | 1-163-009-11 | CERAMIC CHIP 0.001uF | 10% 50V |
| C1014 | 1-163-009-11 | CERAMIC CHIP 0.001uF | 10% 50V |
| C1015 | 1-163-009-11 | CERAMIC CHIP 0.001uF | 10% 50V |
| C1016 | 1-163-009-11 | CERAMIC CHIP 0.001uF | 10% 50V |

| Ref. No. | Part No. | Description | Remark |
|--------------------------------|--------------|------------------------------|----------|
| C1017 | 1-163-009-11 | CERAMIC CHIP 0.001uF | 10% 50V |
| C1018 | 1-163-009-11 | CERAMIC CHIP 0.001uF | 10% 50V |
| C1019 | 1-163-009-11 | CERAMIC CHIP 0.001uF | 10% 50V |
| C1020 | 1-107-725-11 | CERAMIC CHIP 0.1uF | 10% 16V |
| C1080 | 1-107-725-11 | CERAMIC CHIP 0.1uF | 10% 16V |
| < CONNECTOR > | | | |
| * CN1001 | 1-568-944-11 | PIN, CONNECTOR 6P | |
| CN1002 | 1-794-706-11 | PIN, CONNECTOR 7P | |
| * CN1007 | 1-568-942-11 | PIN, CONNECTOR 4P | |
| < DIODE > | | | |
| D1003 | 8-719-301-44 | LED SEL2410E-C-TP2 (▶) | |
| D1004 | 8-719-301-60 | LED SEL2910A-C-TP2 (■) | |
| D1005 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| < FLUORESCENT INDICATOR TUBE > | | | |
| FL1001 | 1-518-761-11 | INDICATOR TUBE, FLUORESCENT | |
| < IC > | | | |
| IC1001 | 8-752-926-42 | IC CXP84120-091Q | |
| IC1002 | 8-759-583-23 | IC MSM9201-03GS-K | |
| < TRANSISTOR > | | | |
| Q1001 | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR | |
| Q1002 | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR | |
| Q1003 | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR | |
| Q1004 | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR | |
| Q1005 | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR | |
| Q1006 | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR | |
| Q1007 | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR | |
| Q1008 | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR | |
| Q1009 | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR | |
| Q1010 | 8-729-120-28 | TRANSISTOR 2SC2412K-T-146-QR | |
| Q1021 | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 | |
| Q1022 | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 | |
| Q1023 | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 | |
| Q1024 | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 | |
| < RESISTOR > | | | |
| R1001 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| R1002 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| R1003 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| R1004 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| R1005 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| R1006 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| R1007 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| R1008 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| R1009 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| R1010 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| R1011 | 1-216-089-11 | RES-CHIP 47K | 5% 1/10W |
| R1012 | 1-216-089-11 | RES-CHIP 47K | 5% 1/10W |
| R1013 | 1-216-089-11 | RES-CHIP 47K | 5% 1/10W |
| R1014 | 1-216-089-11 | RES-CHIP 47K | 5% 1/10W |
| R1015 | 1-216-089-11 | RES-CHIP 47K | 5% 1/10W |
| R1016 | 1-216-089-11 | RES-CHIP 47K | 5% 1/10W |
| R1017 | 1-216-089-11 | RES-CHIP 47K | 5% 1/10W |
| R1018 | 1-216-089-11 | RES-CHIP 47K | 5% 1/10W |

SCD-XA777ES

PANEL **R.CNTL** **RF**

| Ref. No. | Part No. | Description | Remark |
|---------------|--------------|--|----------|
| R1019 | 1-216-089-11 | RES-CHIP 47K | 5% 1/10W |
| R1020 | 1-216-089-11 | RES-CHIP 47K | 5% 1/10W |
| R1034 | 1-216-061-00 | RES-CHIP 3.3K | 5% 1/10W |
| R1042 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| R1043 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| R1044 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| R1045 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| R1046 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| R1047 | 1-216-069-00 | METAL CHIP 6.8K | 5% 1/10W |
| R1048 | 1-216-069-00 | METAL CHIP 6.8K | 5% 1/10W |
| R1049 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R1050 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R1051 | 1-216-045-00 | METAL CHIP 680 | 5% 1/10W |
| R1052 | 1-216-049-11 | RES-CHIP 1K | 5% 1/10W |
| R1053 | 1-216-053-00 | METAL CHIP 1.5K | 5% 1/10W |
| R1054 | 1-216-061-00 | RES-CHIP 3.3K | 5% 1/10W |
| R1061 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| R1062 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| R1068 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R1071 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R1072 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R1073 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R1074 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R1075 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R1076 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R1077 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R1078 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R1080 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R1081 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R1082 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R1090 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R1091 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| R1092 | 1-216-073-11 | RES-CHIP 10K | 5% 1/10W |
| < SWITCH > | | | |
| S1001 | 1-554-303-21 | SWITCH, TACTILE (≡ OPEN/CLOSE) | |
| S1002 | 1-554-303-21 | SWITCH, TACTILE (■) | |
| S1003 | 1-554-303-21 | SWITCH, TACTILE (▶) | |
| S1004 | 1-554-303-21 | SWITCH, TACTILE (■) | |
| < VIBRATOR > | | | |
| X1001 | 1-579-125-11 | VIBRATOR, CERAMIC (8MHz) | |
| ***** | | | |
| | 1-682-058-11 | R.CNTL BOARD | ***** |
| < CAPACITOR > | | | |
| C1022 | 1-107-725-11 | CERAMIC CHIP 0.1uF | 10% 16V |
| < IC > | | | |
| IC1003 | 8-749-923-80 | IC GP1U90XB (REMOTE CONTROL RECEIVER) | |
| < RESISTOR > | | | |
| R1035 | 1-216-025-11 | RES-CHIP 100 | 5% 1/10W |
| ***** | | | |

| Ref. No. | Part No. | Description | Remark |
|---------------|--------------|-----------------------------|------------|
| | A-4726-527-A | RF BOARD, COMPLETE ***** | |
| < CAPACITOR > | | | |
| C001 | 1-162-966-11 | CERAMIC CHIP 0.0022uF | 10% 50V |
| C002 | 1-162-966-11 | CERAMIC CHIP 0.0022uF | 10% 50V |
| C003 | 1-107-826-11 | CERAMIC CHIP 0.1uF | 10% 16V |
| C004 | 1-115-156-11 | CERAMIC CHIP 1uF | 10V |
| C005 | 1-128-993-21 | ELECT CHIP 22uF | 20% 10V |
| C006 | 1-115-156-11 | CERAMIC CHIP 1uF | 10V |
| C007 | 1-124-779-00 | ELECT CHIP 10uF | 20% 16V |
| C008 | 1-162-966-11 | CERAMIC CHIP 0.0022uF | 10% 50V |
| C009 | 1-162-966-11 | CERAMIC CHIP 0.0022uF | 10% 50V |
| C010 | 1-162-966-11 | CERAMIC CHIP 0.0022uF | 10% 50V |
| C011 | 1-162-966-11 | CERAMIC CHIP 0.0022uF | 10% 50V |
| C012 | 1-164-172-11 | CERAMIC CHIP 0.0056uF | 10% 25V |
| C013 | 1-164-172-11 | CERAMIC CHIP 0.0056uF | 10% 25V |
| C014 | 1-124-779-00 | ELECT CHIP 10uF | 20% 16V |
| C015 | 1-124-779-00 | ELECT CHIP 10uF | 20% 16V |
| C016 | 1-164-218-11 | CERAMIC CHIP 180PF | 0.25PF 50V |
| C017 | 1-162-919-11 | CERAMIC CHIP 22PF | 5% 50V |
| C018 | 1-162-919-11 | CERAMIC CHIP 22PF | 5% 50V |
| C019 | 1-124-779-00 | ELECT CHIP 10uF | 20% 16V |
| C020 | 1-162-919-11 | CERAMIC CHIP 22PF | 5% 50V |
| C021 | 1-162-919-11 | CERAMIC CHIP 22PF | 5% 50V |
| C022 | 1-164-357-11 | CERAMIC CHIP 0.001uF | 5% 50V |
| C023 | 1-126-206-11 | ELECT CHIP 100uF | 20% 6.3V |
| C024 | 1-162-974-11 | CERAMIC CHIP 0.01uF | 50V |
| C025 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C026 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C027 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C028 | 1-128-993-21 | ELECT CHIP 22uF | 20% 10V |
| C029 | 1-124-779-00 | ELECT CHIP 10uF | 20% 16V |
| C030 | 1-128-993-21 | ELECT CHIP 22uF | 20% 10V |
| C031 | 1-107-826-11 | CERAMIC CHIP 0.1uF | 10% 16V |
| C032 | 1-107-826-11 | CERAMIC CHIP 0.1uF | 10% 16V |
| C033 | 1-128-993-21 | ELECT CHIP 22uF | 20% 10V |
| C034 | 1-124-779-00 | ELECT CHIP 10uF | 20% 16V |
| C036 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C037 | 1-164-357-11 | CERAMIC CHIP 0.001uF | 5% 50V |
| C038 | 1-126-206-11 | ELECT CHIP 100uF | 20% 6.3V |
| C039 | 1-107-826-11 | CERAMIC CHIP 0.1uF | 10% 16V |
| C040 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C041 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C042 | 1-164-677-11 | CERAMIC CHIP 0.033uF | 10% 16V |
| C043 | 1-164-677-11 | CERAMIC CHIP 0.033uF | 10% 16V |
| C044 | 1-164-392-11 | CERAMIC CHIP 390PF | 5% 50V |
| C045 | 1-115-416-11 | CERAMIC CHIP 0.001uF | 5% 25V |
| C046 | 1-107-826-11 | CERAMIC CHIP 0.1uF | 10% 16V |
| C047 | 1-107-826-11 | CERAMIC CHIP 0.1uF | 10% 16V |
| C048 | 1-165-176-11 | CERAMIC CHIP 0.047uF | 10% 16V |
| C049 | 1-128-993-21 | ELECT CHIP 22uF | 20% 10V |
| C050 | 1-128-993-21 | ELECT CHIP 22uF | 20% 10V |
| C051 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C052 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C055 | 1-128-993-21 | ELECT CHIP 22uF | 20% 10V |
| C060 | 1-115-156-11 | CERAMIC CHIP 1uF | 10V |

| | |
|-----------|---------------|
| RF | SWITCH |
|-----------|---------------|

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|------------------------|--------------|-----------------------------------|---------|----------|----------|-------------|--------|
| C064 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | | | |
| C068 | 1-115-156-11 | CERAMIC CHIP | 1uF | 10V | | | |
| C069 | 1-115-156-11 | CERAMIC CHIP | 1uF | 10V | | | |
| C070 | 1-128-993-21 | ELECT CHIP | 22uF | 20% | 10V | | |
| C071 | 1-128-993-21 | ELECT CHIP | 22uF | 20% | 10V | | |
| C081 | 1-164-357-11 | CERAMIC CHIP | 0.001uF | 5% | 50V | | |
| C082 | 1-164-357-11 | CERAMIC CHIP | 0.001uF | 5% | 50V | | |
| C084 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | |
| C094 | 1-128-993-21 | ELECT CHIP | 22uF | 20% | 10V | | |
| C095 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | 25V | | | |
| < CONNECTOR > | | | | | | | |
| CN001 | 1-774-731-21 | PIN, CONNECTOR (PC BOARD) 5P | | | | | |
| CN002 | 1-770-161-21 | PIN, CONNECTOR (PC BOARD) 6P | | | | | |
| CN003 | 1-794-707-11 | CONNECTOR, FFC/FPC 25P | | | | | |
| CN005 | 1-784-883-21 | CONNECTOR, FFC (LIF (NON-ZIF))35P | | | | | |
| < DIODE > | | | | | | | |
| D001 | 8-719-016-74 | DIODE 1SS352-TPH3 | | | | | |
| D002 | 8-719-016-74 | DIODE 1SS352-TPH3 | | | | | |
| < IC > | | | | | | | |
| IC001 | 8-752-403-50 | IC CXD1881R | | | | | |
| IC004 | 8-759-058-45 | IC NJM3403AV | | | | | |
| IC081 | 8-759-701-40 | IC NJM3404AM-T1 | | | | | |
| < COIL > | | | | | | | |
| L001 | 1-412-031-11 | INDUCTOR CHIP 47uH | | | | | |
| L002 | 1-412-031-11 | INDUCTOR CHIP 47uH | | | | | |
| L003 | 1-412-031-11 | INDUCTOR CHIP 47uH | | | | | |
| < TRANSISTOR > | | | | | | | |
| Q001 | 8-729-805-25 | TRANSISTOR 2SB1121-ST-TD | | | | | |
| Q002 | 8-729-805-25 | TRANSISTOR 2SB1121-ST-TD | | | | | |
| Q003 | 8-729-805-25 | TRANSISTOR 2SB1121-ST-TD | | | | | |
| Q005 | 8-729-820-90 | TRANSISTOR 2SD1621-ST-TD | | | | | |
| < RESISTOR > | | | | | | | |
| R001 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R002 | 1-218-668-11 | METAL CHIP 100 0.5% 1/16W | | | | | |
| R003 | 1-216-839-11 | METAL CHIP 33K 5% 1/16W | | | | | |
| R005 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R006 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R007 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R008 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R011 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R012 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R013 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R014 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R015 | 1-216-803-11 | METAL CHIP 33 5% 1/16W | | | | | |
| R016 | 1-216-821-11 | METAL CHIP 1K 5% 1/16W | | | | | |
| R017 | 1-216-817-11 | METAL CHIP 470 5% 1/16W | | | | | |
| R018 | 1-216-821-11 | METAL CHIP 1K 5% 1/16W | | | | | |
| R019 | 1-216-803-11 | METAL CHIP 33 5% 1/16W | | | | | |
| R020 | 1-216-817-11 | METAL CHIP 470 5% 1/16W | | | | | |
| R021 | 1-219-570-11 | RES-CHIP 10M 5% 1/16W | | | | | |
| R022 | 1-218-718-11 | METAL CHIP 12K 0.5% 1/16W | | | | | |
| R023 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R024 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R025 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R027 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R029 | 1-216-841-11 | METAL CHIP 47K 5% 1/16W | | | | | |
| R030 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R031 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R032 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R033 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R036 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | | | | | |
| R044 | 1-216-832-11 | METAL CHIP 8.2K 5% 1/16W | | | | | |
| R046 | 1-218-668-11 | METAL CHIP 100 0.5% 1/16W | | | | | |
| R053 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R054 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R060 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R065 | 1-218-716-11 | METAL CHIP 10K 0.5% 1/16W | | | | | |
| R066 | 1-218-716-11 | METAL CHIP 10K 0.5% 1/16W | | | | | |
| R068 | 1-216-839-11 | METAL CHIP 33K 5% 1/16W | | | | | |
| R082 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | | | | | |
| R083 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | | | | | |
| R084 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | | | | | |
| R085 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | | | | | |
| R086 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | | | | | |
| R087 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | | | | | |
| R088 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R089 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | | | | |
| R093 | 1-216-803-11 | METAL CHIP 33 5% 1/16W | | | | | |
| R094 | 1-216-803-11 | METAL CHIP 33 5% 1/16W | | | | | |
| R097 | 1-216-839-11 | METAL CHIP 33K 5% 1/16W | | | | | |
| R098 | 1-216-839-11 | METAL CHIP 33K 5% 1/16W | | | | | |
| ***** | | | | | | | |
| * | 1-641-764-13 | SWITCH BOARD ***** | | | | | |
| < CAPACITOR > | | | | | | | |
| C001 | 1-161-494-00 | CERAMIC 0.022uF 25V | | | | | |
| < SWITCH > | | | | | | | |
| S001 | 1-571-300-11 | SWITCH, ROTARY (LOADING IN) | | | | | |
| S002 | 1-571-300-11 | SWITCH, ROTARY (LOADING OUT) | | | | | |
| ***** | | | | | | | |
| MISCELLANEOUS ***** | | | | | | | |
| 153 | 1-757-932-11 | WIRE (FLAT TYPE) (19 CORE) | | | | | |
| 154 | 1-757-931-11 | WIRE (FLAT TYPE) (19 CORE) | | | | | |
| 156 | 1-757-098-11 | WIRE (FLAT TYPE) (35 CORE) | | | | | |
| 206 | 1-555-724-00 | WIRE, GROUND (US, Canadian) | | | | | |
| △552 | 8-820-132-03 | OPTICAL PICK-UP (KHM-230AAA/J1RP) | | | | | |
| 557 | 1-757-097-11 | WIRE (FLAT TYPE) (25 CORE) | | | | | |
| M1 | A-4604-347-A | MOTOR (L) ASSY (LOADING) | | | | | |
| △T901 | 1-437-420-11 | TRANSFORMER, POWER (AEP) | | | | | |
| △T901 | 1-437-422-11 | TRANSFORMER, POWER (US, Canadian) | | | | | |
| △T902 | 1-437-421-11 | TRANSFORMER, POWER (AEP) | | | | | |
| △T902 | 1-437-423-11 | TRANSFORMER, POWER (US, Canadian) | | | | | |
| ***** | | | | | | | |

| | |
|--|--|
| 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 pièce portant le numéro spécifié. |
|--|--|

SCD-XA777ES

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------------|--------|
| | | ***** HARDWARE LIST ***** | |
| #1 | 7-685-647-79 | SCREW +P 3X10 TYPE2 SLIT | |
| #2 | 7-682-548-09 | SCREW (3X8) | |
| #3 | 7-685-548-19 | SCREW +BTP 3X12 TYPE2 N-S | |
| #4 | 7-685-871-01 | SCREW +BVTT 3X6 (S) | |
| #5 | 7-685-887-09 | SCREW +BVTT 4X25 (S) | |
| #6 | 7-623-423-07 | LW 4, TYPE B (US, Canadian) | |
| #7 | 7-684-024-04 | N 4, TYPE 2 (US, Canadian) | |
| #8 | 7-682-964-09 | SCREW +PSW 4X14 (US, Canadian) | |
| #9 | 7-685-659-79 | SCREW +BVTP 4X8 TYPE2 N-S | |
| #10 | 7-682-544-04 | SCREW +P 3X3 | |
| #11 | 7-685-871-09 | SCREW +BVTT 3X6 (S) | |
| #12 | 7-624-105-04 | STOP RING 2.3, TYPE -E | |
| * #13 | 7-685-903-21 | BRACKET, YOKE | |
| #14 | 7-682-547-04 | SCREW (+BVTT M3S) | |
| #15 | 7-685-646-79 | SCREW, TAPPING | |
| #16 | 7-685-872-09 | SCREW +BVTT 3X8 (S) | |
| #17 | 7-688-003-12 | W 3, MIDDLE | |

ACCESSORIES & PACKING MATERIALS

| | | | |
|---|--------------|---|--|
| | 1-476-598-11 | REMOTE COMMANDER (RM-SX700) | |
| △ | 1-506-411-21 | ADAPTOR, AC PLUG 3P-2P (US, Canadian) | |
| △ | 1-551-631-22 | CORD, POWER (AEP) | |
| △ | 1-551-812-11 | CORD, POWER (US, Canadian) | |
| △ | 1-757-960-21 | CORD, CONNECTION (BLACK AUDIO CONNECTION CORD) | |
| △ | 1-791-732-11 | CORD, CONNECTION (RED AND WHITE AUDIO CONNECTION CORD) | |
| | 4-235-066-11 | MANUAL, INSTRUCTION (ENGLISH, FRENCH) (US, Canadian) | |
| | 4-235-066-21 | MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH) (AEP) | |
| | 4-235-066-31 | MANUAL, INSTRUCTION (DUTCH, SWEDISH, ITALIAN, POLISH) (AEP) | |
| | 4-228-696-01 | LID, BATTERY CASE (for RM-SX700) | |

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 pièce portant le numéro spécifié.

MEMO

SCD-XA777ES

SONY®

SERVICE MANUAL

Ver 1.1 2001.10

US Model
Canadian Model
AEP Model

SUPPLEMENT-1

File this supplement with the service manual.

Subject: Change of AC/A-POWER/D.OUT/D-POWER/MOTHER boards. (Suffix-12)

(ECN-CDB04047)

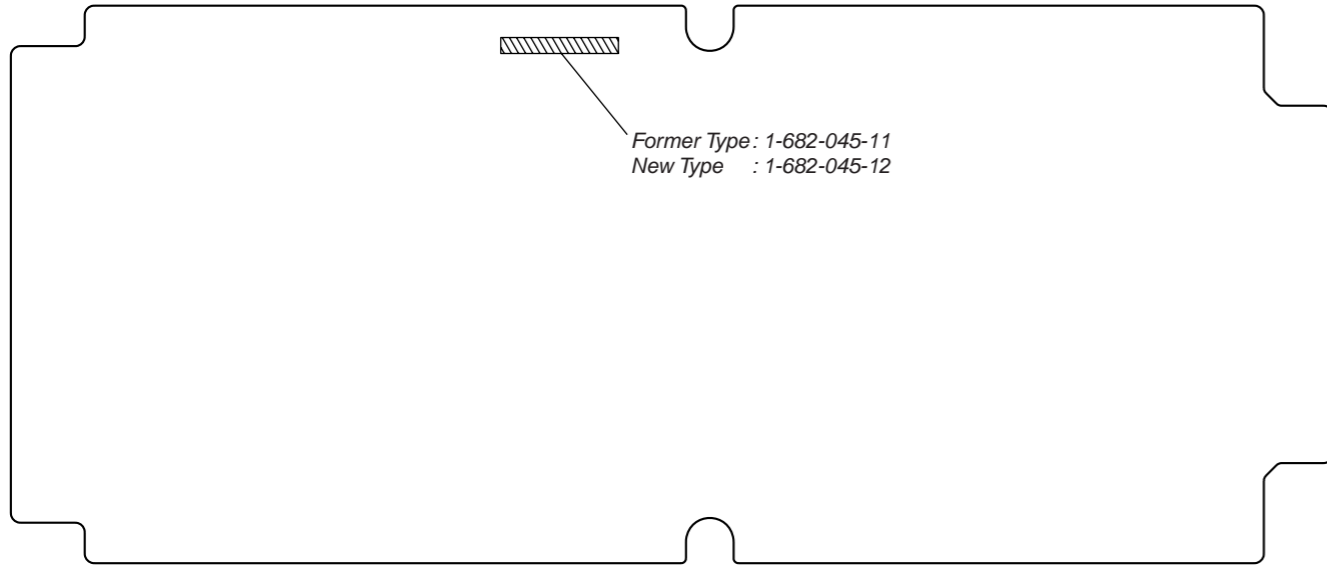
In this set, AC, A-POWER, D.OUT, D-POWER and MOTHER boards have been changed in the midway of production. Printed wiring boards and schematic diagrams of new type, and changed parts list are described in this supplement-1. Refer to original service manual for other information.

TABLE OF CONTENTS

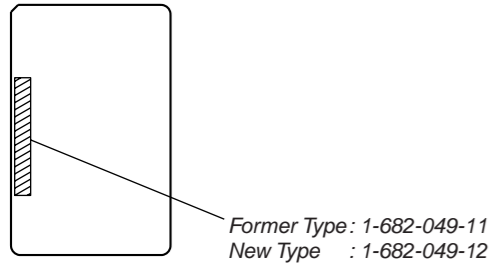
| | |
|---|-----------|
| 1. NEW/FORMER TYPE DISCRIMINATION | 2 |
| 2. DIAGRAMS | |
| 2-1. Note for Printed Wiring Boards and Schematic Diagrams | 2 |
| 2-2. Printed Wiring Board – D.OUT Board – | 3 |
| 2-3. Schematic Diagram – D.OUT Board – | 3 |
| 2-4. Printed Wiring Board – MOTHER Board (Component Side) – | 4 |
| 2-5. Printed Wiring Board – MOTHER Board (Conductor Side) – | 5 |
| 2-6. Schematic Diagram – MOTHER Board (1/2) – | 6 |
| 2-7. Schematic Diagram – MOTHER Board (2/2) – | 7 |
| 2-8. Printed Wiring Board – A-POWER Board – | 8 |
| 2-9. Schematic Diagram – A-POWER Board – | 9 |
| 2-10. Printed Wiring Board – D-POWER Board – | 10 |
| 2-11. Schematic Diagram – D-POWER Board – | 11 |
| 2-12. Printed Wiring Boards – AC/AC SW Boards – | 12 |
| 2-13. Schematic Diagram – AC/AC SW Boards – | 13 |
| 3. ELECTRICAL PARTS LIST | 14 |

1. NEW/FORMER TYPE DISCRIMINATION

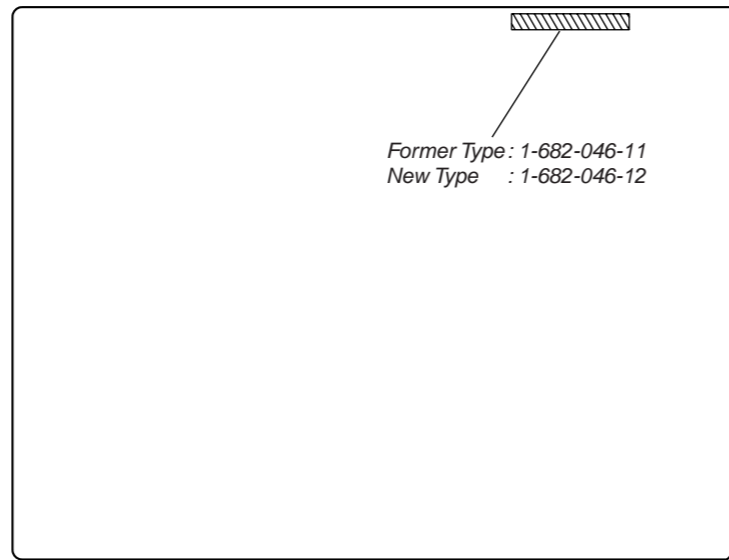
– MOTHER BOARD (Component Side) –



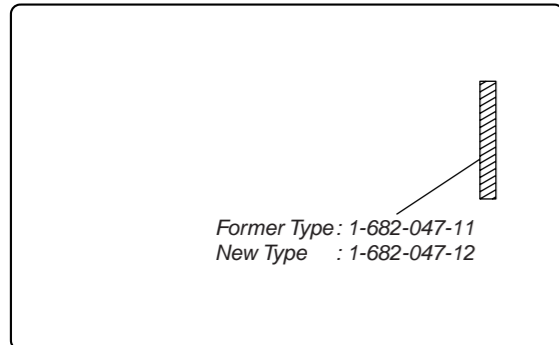
– D.OUT BOARD (Component Side) –



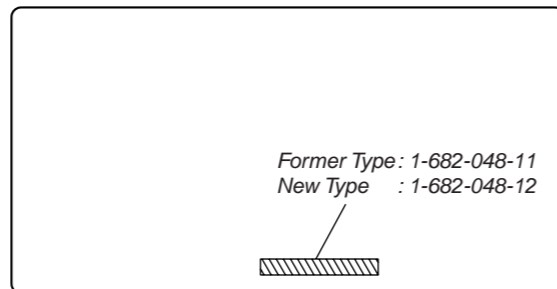
– A-POWER BOARD (Component Side) –



– D-POWER BOARD (Component Side) –



– AC BOARD (Component Side) –



2. DIAGRAMS

2-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

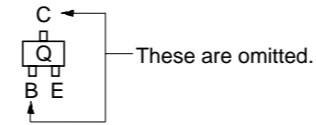
Note on Printed Wiring Board:

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

Caution:

Pattern face side: Parts on the pattern face side seen from (Conductor Side) the pattern face are indicated.
 Parts face side: Parts on the parts face side seen from (Component Side) the parts face are indicated.

- Indication of transistor



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{ W}$ or less unless otherwise specified.
- : fusible resistor.
- : panel designation.

Note:

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

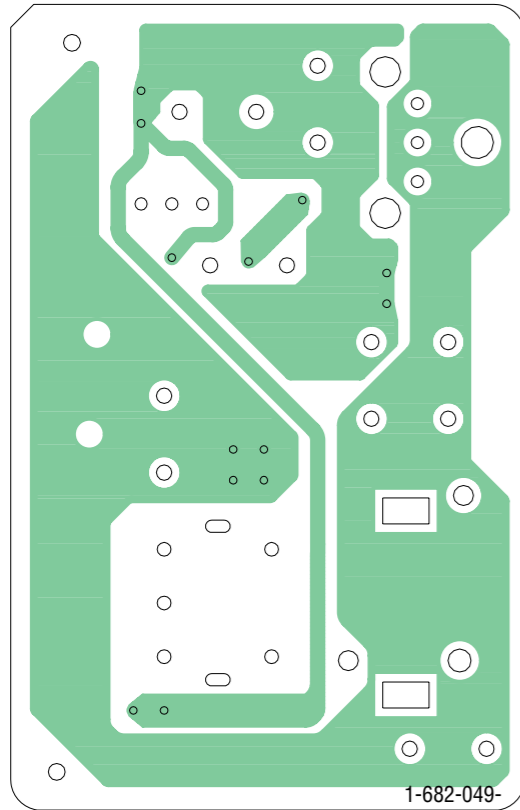
Note:

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

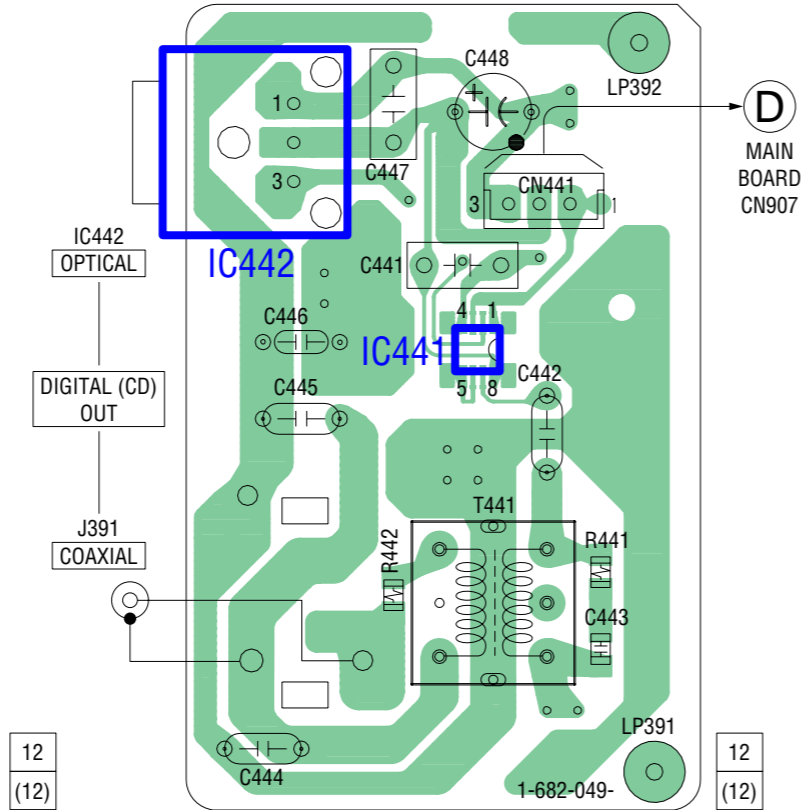
- : B+ Line.
- : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
 no mark : CD PLAY (ANALOG OUT)
 << >> : CD PLAY (DIGITAL OUT)
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 : SACD PLAY
 : CD PLAY (ANALOG OUT)
 : CD PLAY (DIGITAL OUT)

2-2. PRINTED WIRING BOARD – D.OUT Board –

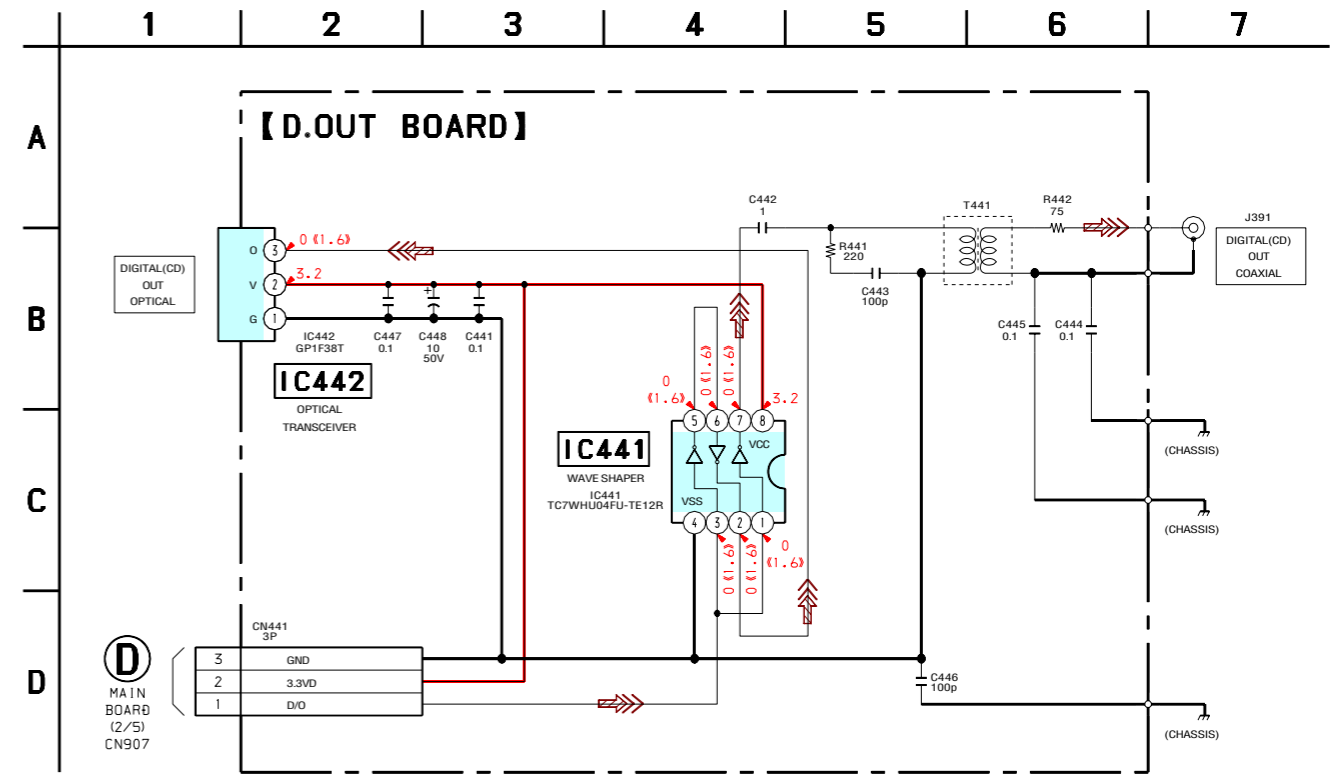
【D.OUT BOARD】(COMPONENT SIDE)



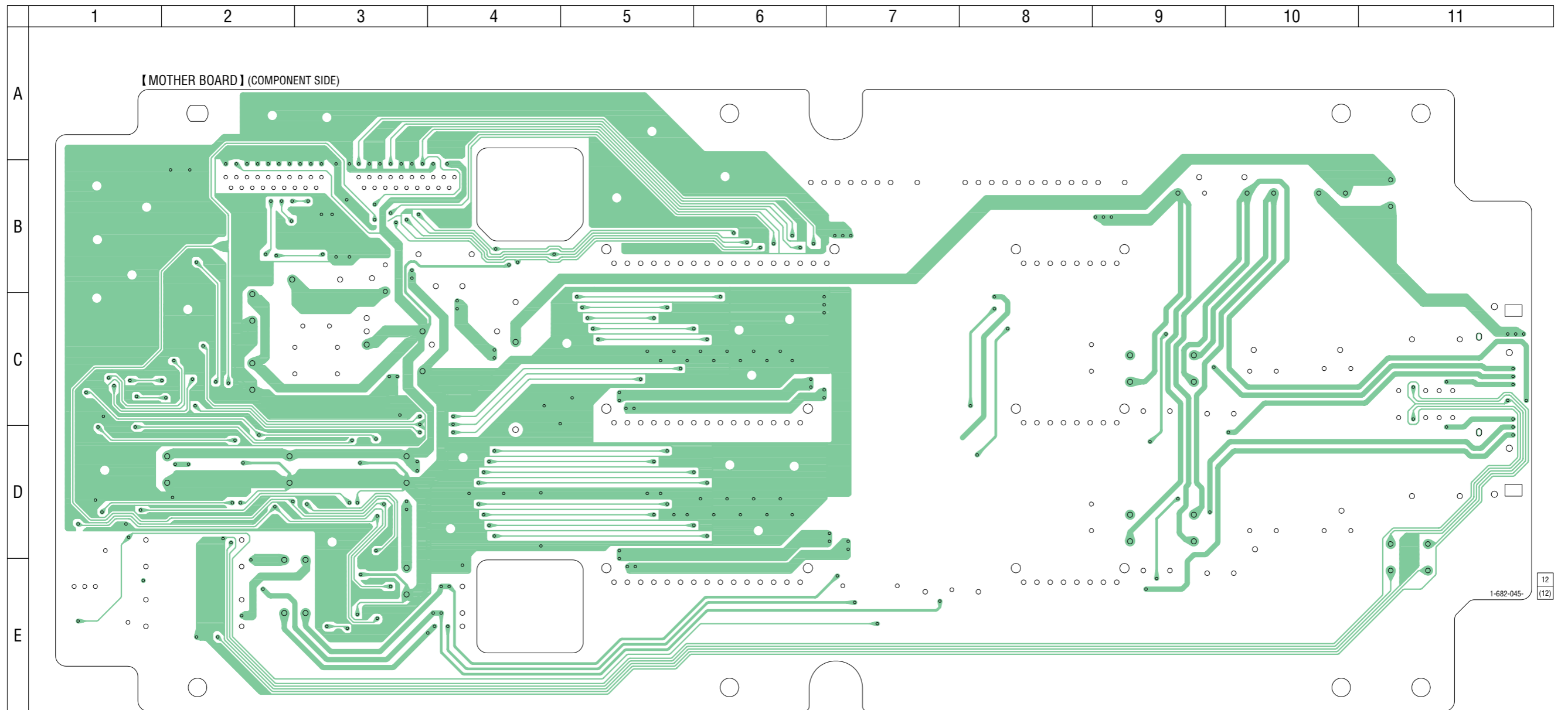
【D.OUT BOARD】(CONDUCTOR SIDE)



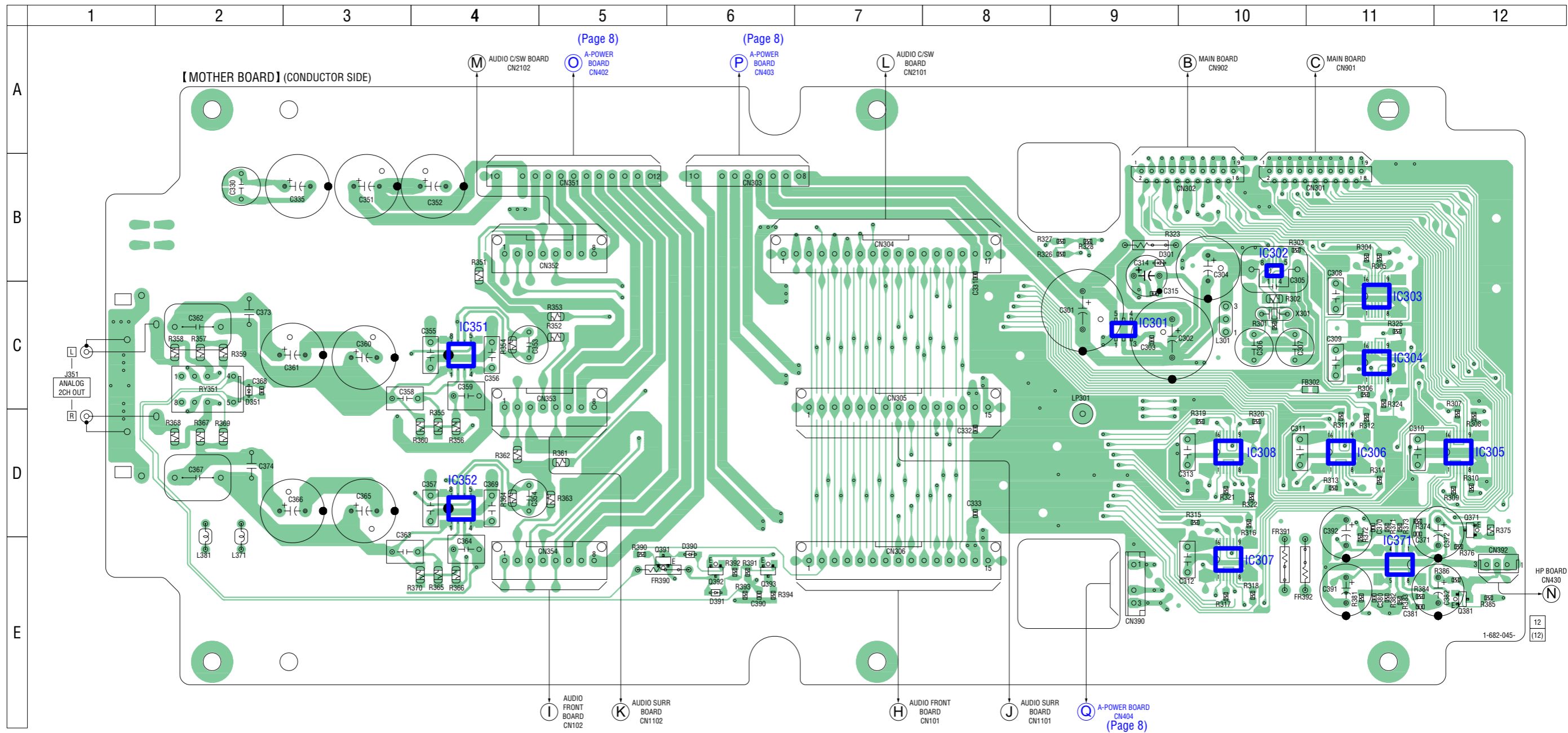
2-3. SCHEMATIC DIAGRAM – D.OUT Board –



2-4. PRINTED WIRING BOARD – MOTHER Board (Component Side) –



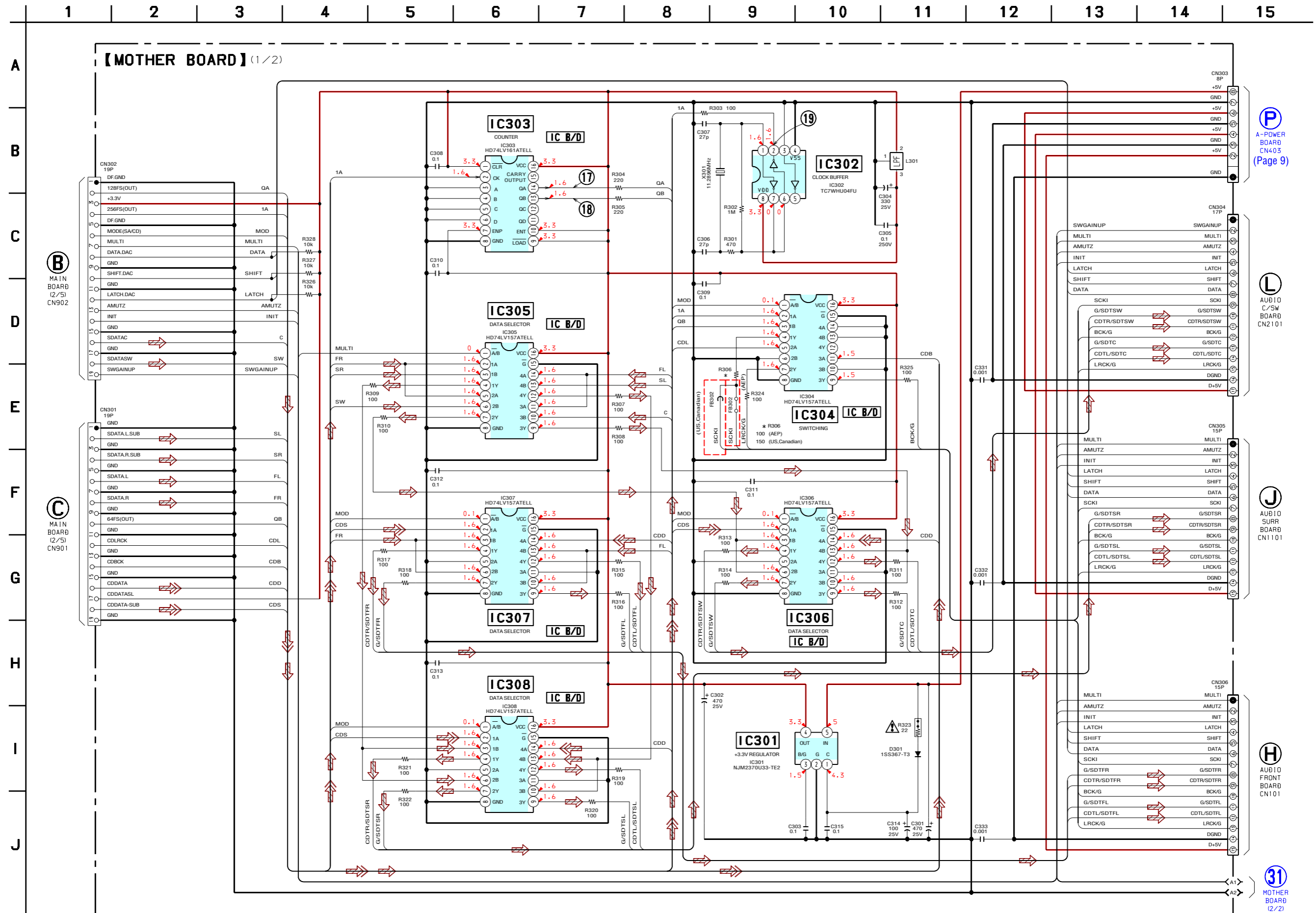
2-5. PRINTED WIRING BOARD – MOTHER Board (Conductor Side) –



• Semiconductor Location

| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D301 | B-9 | IC307 | E-10 |
| D351 | C-2 | IC308 | D-10 |
| D390 | E-6 | IC351 | C-4 |
| D391 | E-6 | IC352 | D-4 |
| | | IC371 | E-11 |
| IC301 | C-9 | | |
| IC302 | B-10 | Q371 | D-12 |
| IC303 | C-11 | Q381 | E-12 |
| IC304 | C-11 | Q391 | E-5 |
| IC305 | D-12 | Q392 | E-6 |
| IC306 | D-11 | Q393 | E-6 |

2-6. SCHEMATIC DIAGRAM – MOTHER Board (1/2) –



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

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

P A-POWER BOARD CN403 (Page 9)

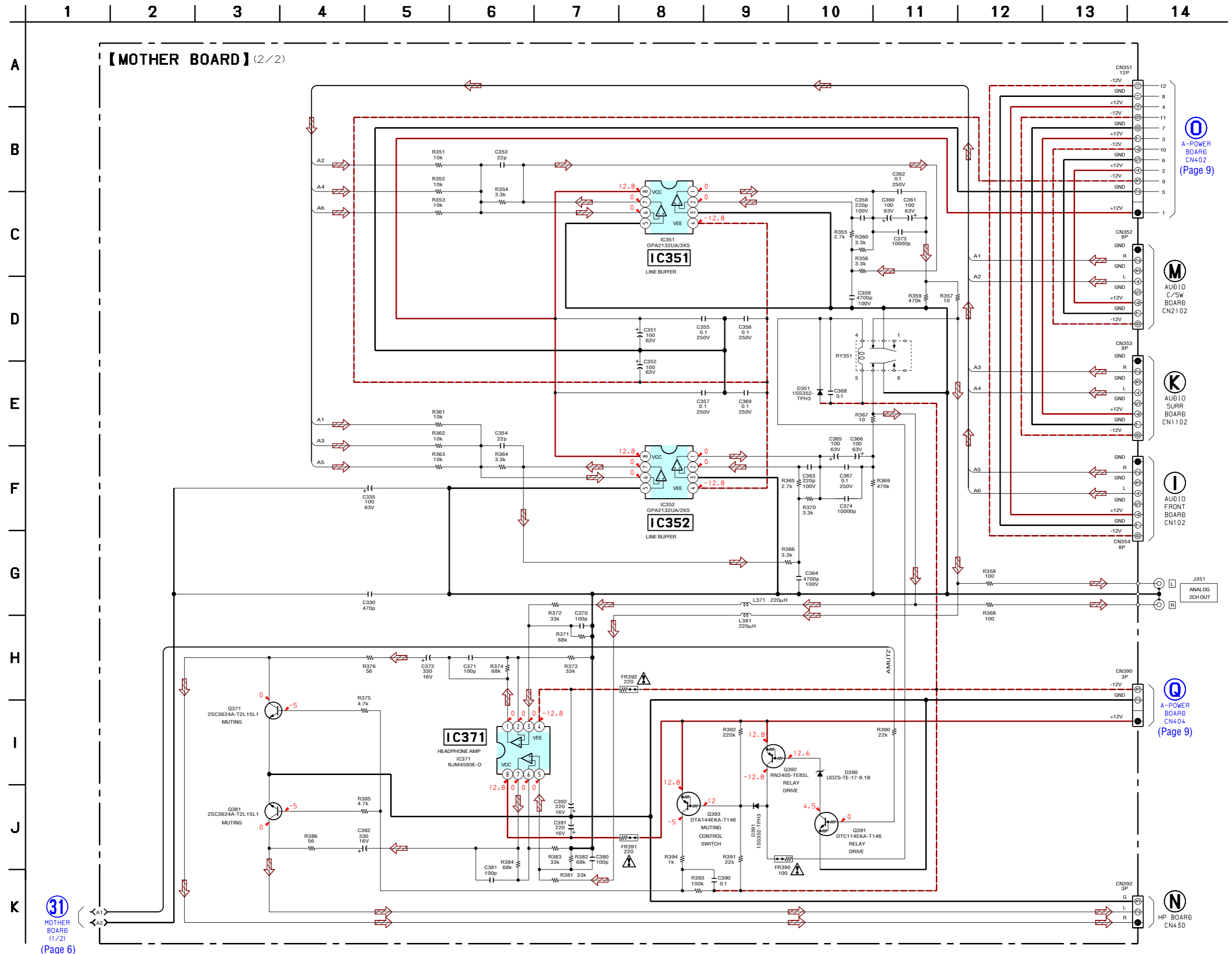
L AUBIO C/SW BOARD CN2101

J AUBIO SURR BOARD CN1101

H AUBIO FRONT BOARD CN1101

31 MOTHER BOARD (2/2) (Page 7)

2-7. SCHEMATIC DIAGRAM – MOTHER Board (2/2) –



A-POWER BOARD CN402 (Page 9)

AUDIO C/SW BOARD CN2102

AUDIO SURR BOARD CN1102

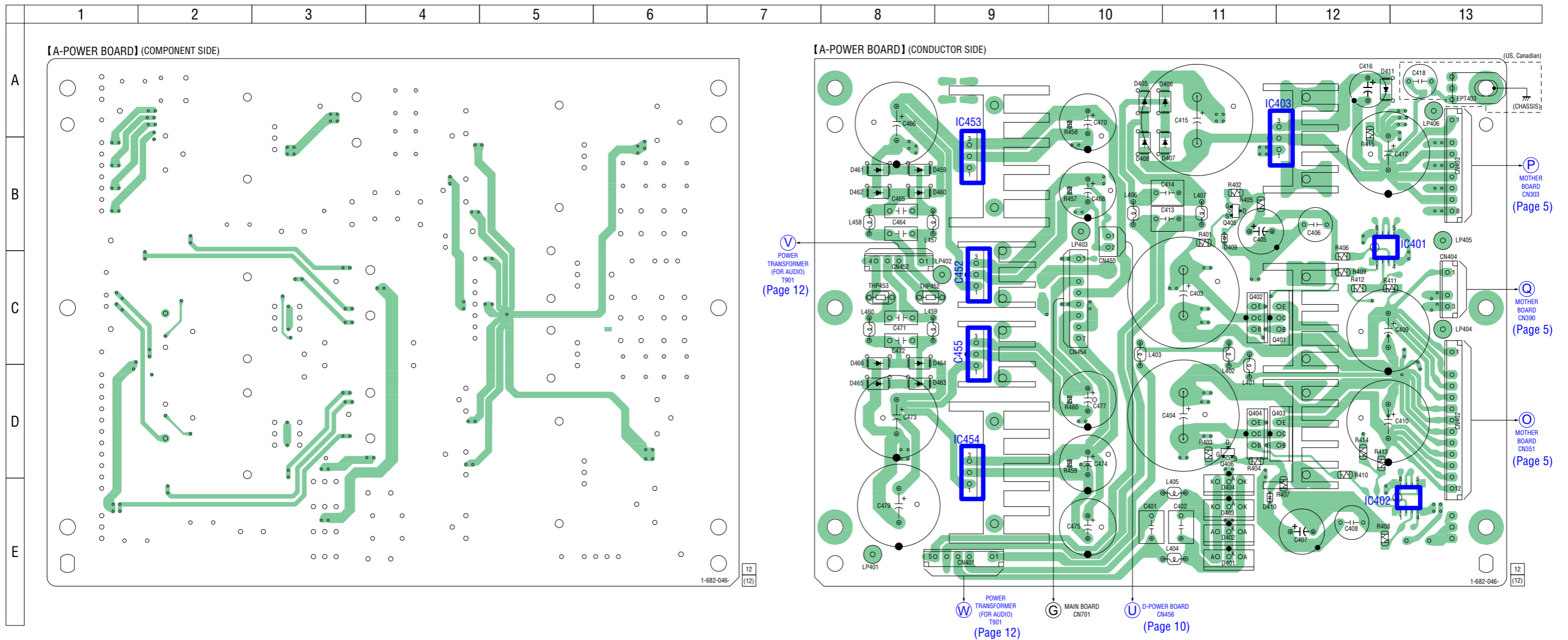
AUDIO FRONT BOARD CN102

A-POWER BOARD CN404 (Page 9)

HP BOARD CN430

31 MOTHER BOARD (1/2) (Page 6)

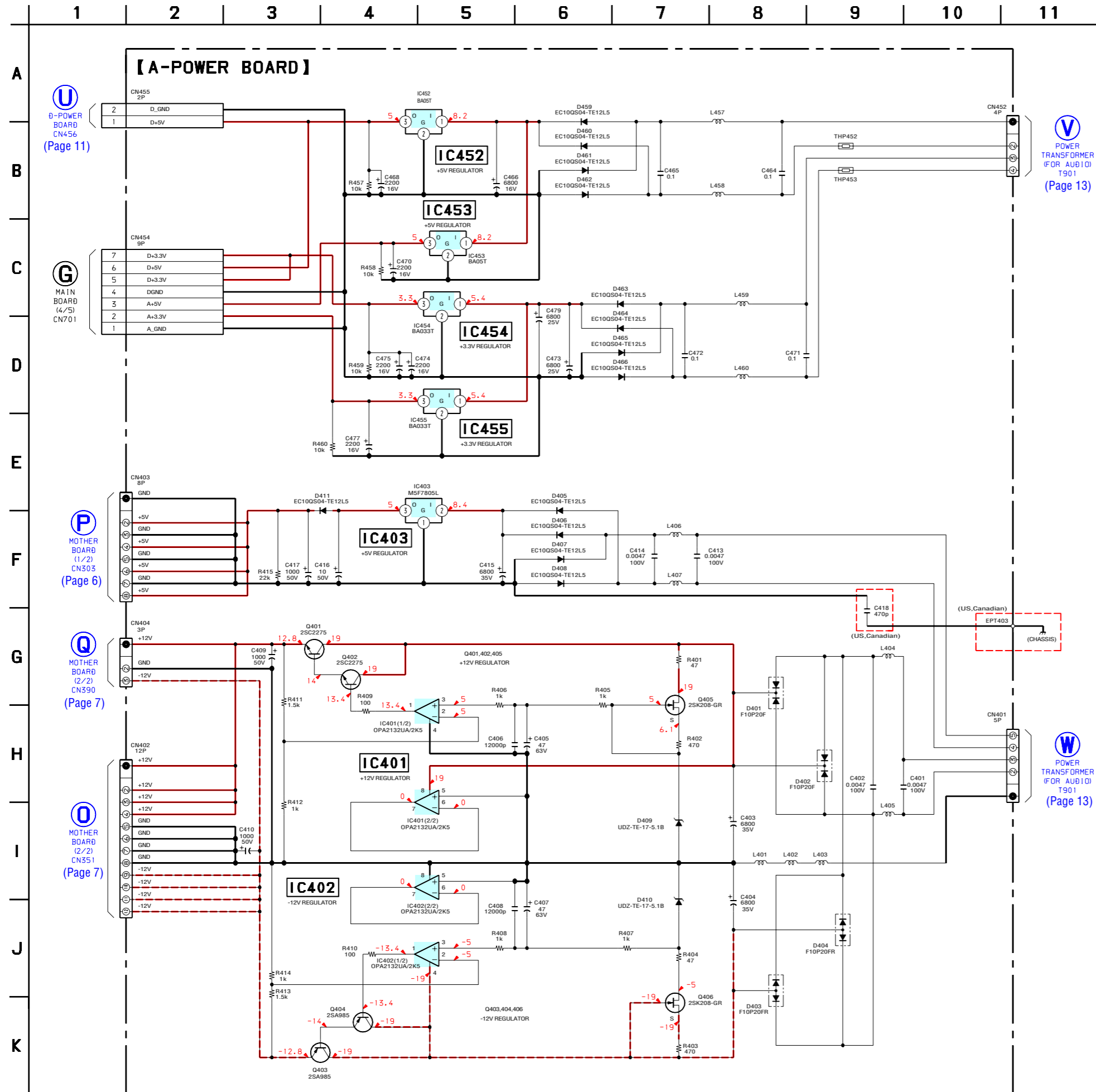
2-8. PRINTED WIRING BOARD – A-POWER Board –



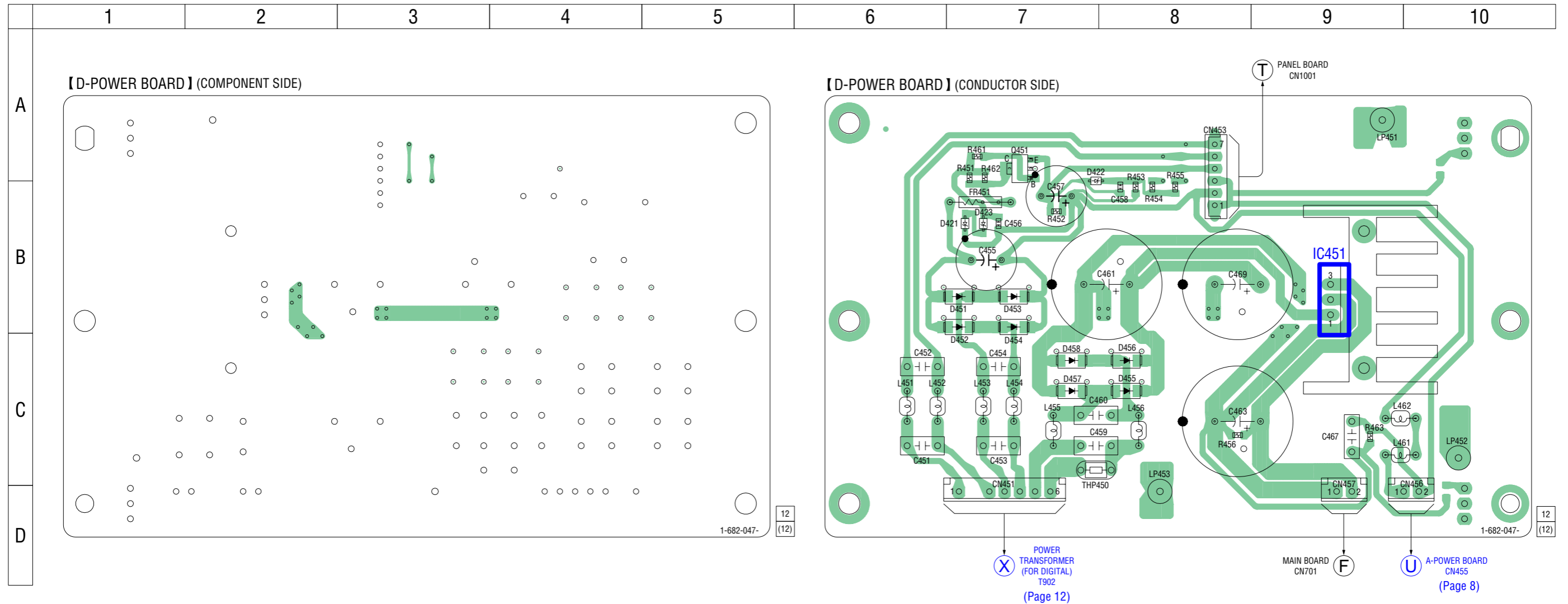
• Semiconductor Location

| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D401 | E-11 | D465 | D-8 |
| D402 | E-11 | D466 | C-8 |
| D403 | E-11 | | |
| D404 | E-11 | IC401 | B-12 |
| D405 | A-10 | IC402 | E-13 |
| D406 | A-11 | IC403 | A-12 |
| D407 | B-11 | IC452 | C-9 |
| D408 | B-10 | IC453 | B-9 |
| D409 | B-11 | IC454 | D-9 |
| D410 | E-11 | IC455 | C-9 |
| D411 | A-12 | | |
| D459 | B-8 | Q401 | C-12 |
| D460 | B-8 | Q402 | C-11 |
| D461 | B-8 | Q403 | D-12 |
| D462 | B-8 | Q404 | D-11 |
| D463 | D-8 | Q405 | B-11 |
| D464 | C-8 | Q406 | D-11 |

2-9. SCHEMATIC DIAGRAM – A-POWER Board –



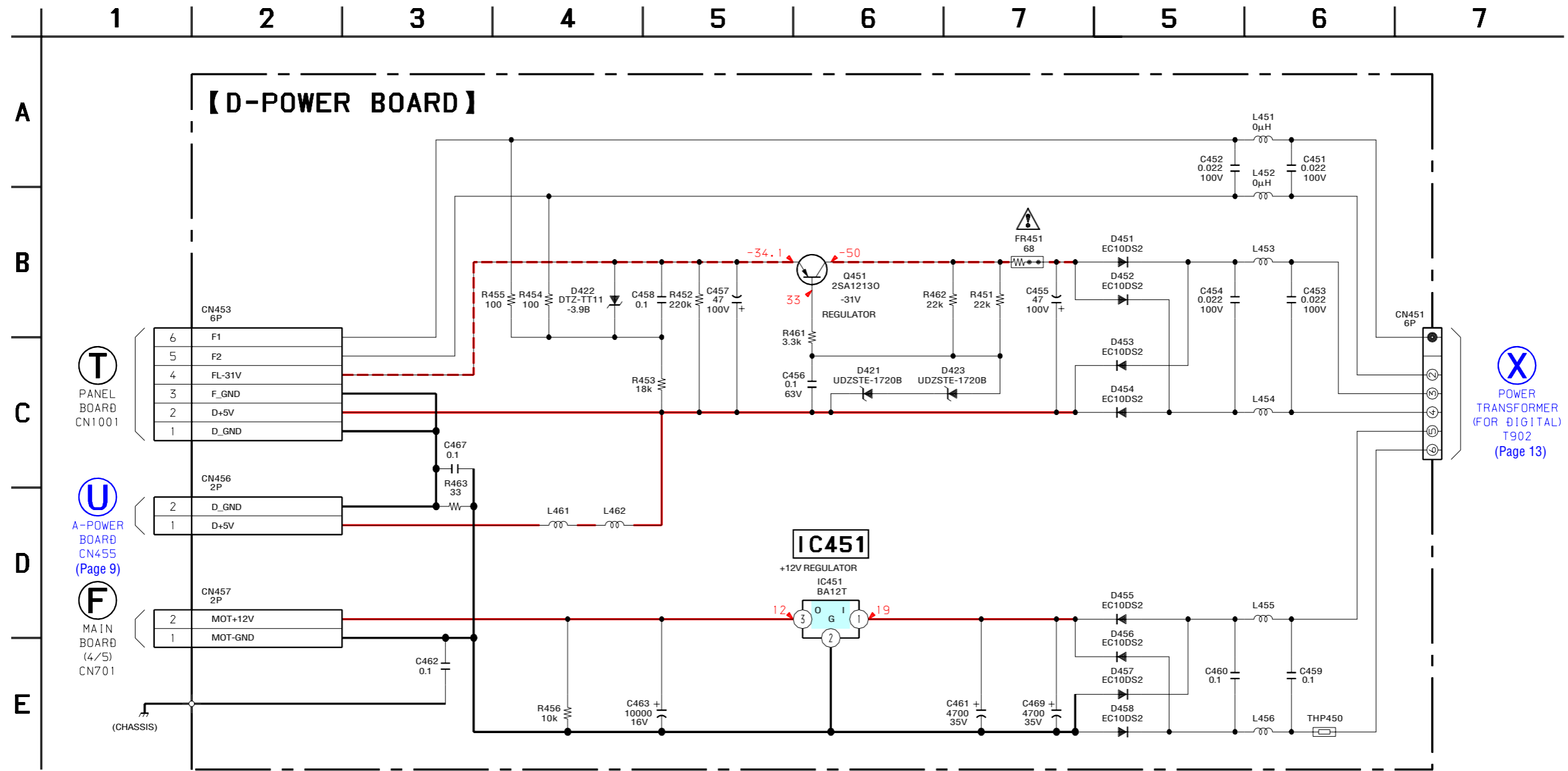
2-10. PRINTED WIRING BOARD – D-POWER Board –



• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D421 | B-7 |
| D422 | A-7 |
| D423 | B-7 |
| D451 | B-7 |
| D452 | B-7 |
| D453 | B-7 |
| D454 | B-7 |
| D455 | C-8 |
| D456 | C-8 |
| D457 | C-7 |
| D458 | C-7 |
| IC451 | B-9 |
| Q451 | A-7 |

2-11. SCHEMATIC DIAGRAM – D-POWER Board –



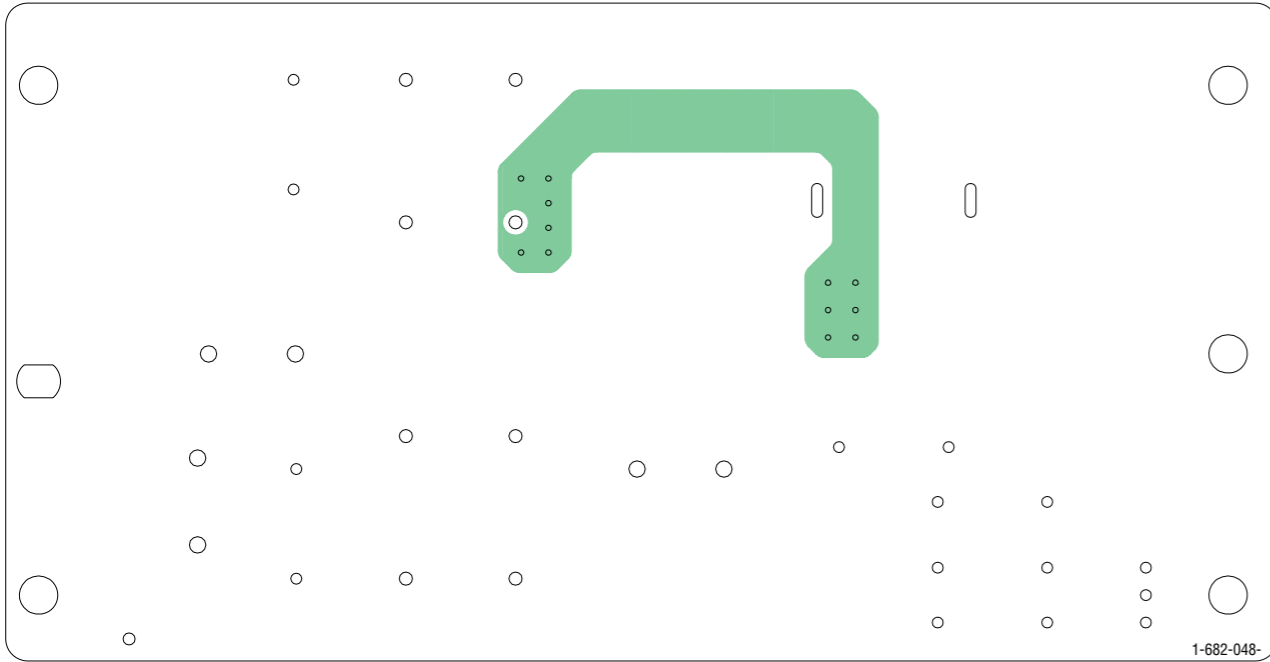
X
POWER TRANSFORMER (FOR DIGITAL) T902 (Page 13)

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

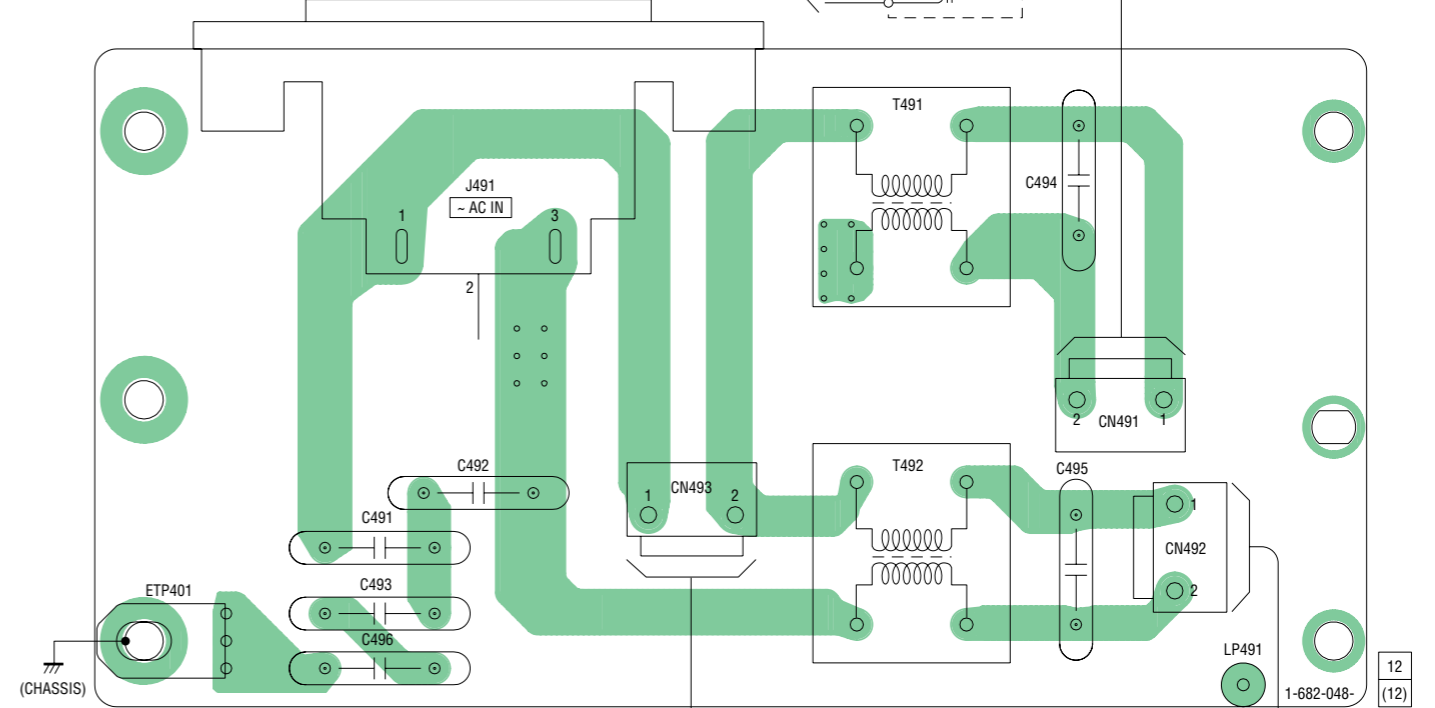
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

2-12. PRINTED WIRING BOARDS – AC/AC SW Boards –

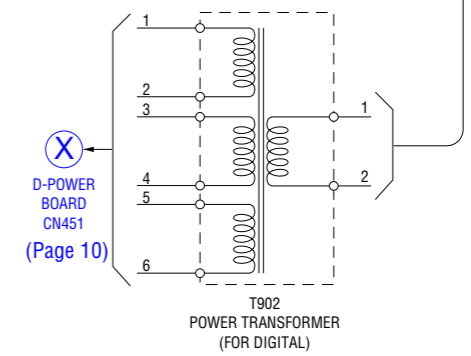
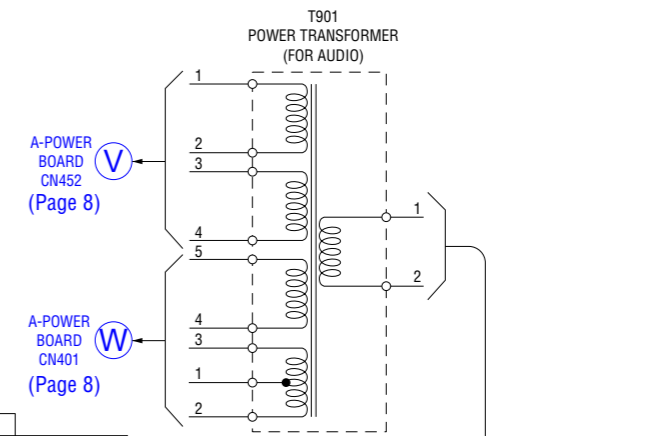
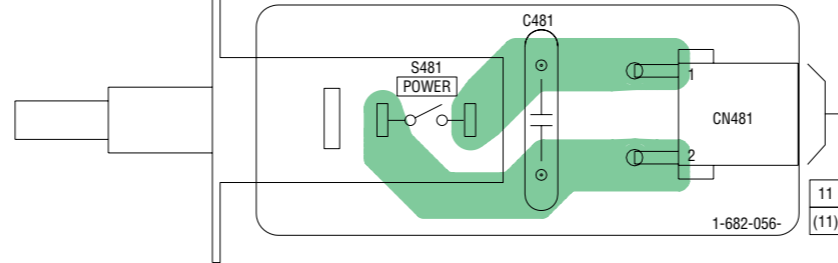
【AC BOARD】(COMPONENT SIDE)



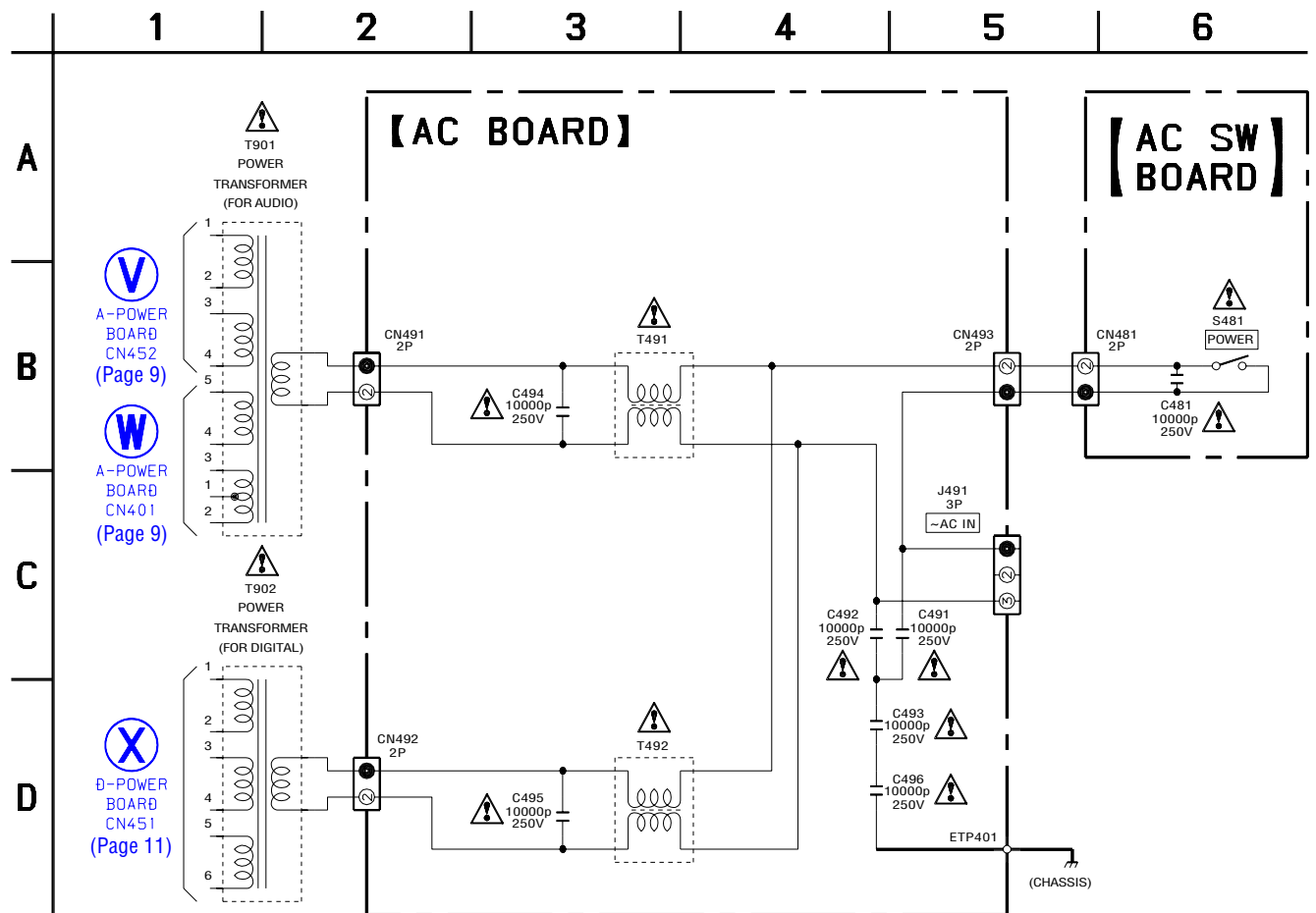
【AC BOARD】(CONDUCTOR SIDE)



【AC SW BOARD】



2-13. SCHEMATIC DIAGRAM – AC/AC SW Boards –



| | |
|---|--|
| <p>The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.</p> | <p>Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p> |
|---|--|

AC **A-POWER**

3. 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

- 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. . . : μ A. . . uPA. . . : μ PA. . .
uPB. . . : μ PB. . . uPC. . . : μ PC. . .
uPD. . . : μ PD. . .
- CAPACITORS
uF: μ F
- COILS
uH: μ H

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

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

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

| Ref. No. | Part No. | Description | Remark |
|---------------|--------------|---|--------|
| | A-4726-336-A | AC BOARD, COMPLETE ***** | |
| | | < CAPACITOR > | |
| Δ C491 | 1-113-927-11 | CERAMIC 10000PF 20% 250V | |
| Δ C492 | 1-113-927-11 | CERAMIC 10000PF 20% 250V | |
| Δ C493 | 1-113-927-11 | CERAMIC 10000PF 20% 250V | |
| Δ C494 | 1-113-927-11 | CERAMIC 10000PF 20% 250V | |
| Δ C495 | 1-113-927-11 | CERAMIC 10000PF 20% 250V | |
| Δ C496 | 1-113-927-11 | CERAMIC 10000PF 20% 250V | |
| | | < CONNECTOR > | |
| CN491 | 1-770-128-11 | PIN, CONNECTOR 2P | |
| * CN492 | 1-564-321-21 | PIN, CONNECTOR 2P | |
| CN493 | 1-564-321-00 | PIN, CONNECTOR 2P | |
| | | < GROUND TERMINAL > | |
| ETP401 | 1-537-770-21 | TERMINAL BOARD, GROUND | |
| | | < AC INLET > | |
| J491 | 1-251-234-11 | INLET, AC (\sim AC IN) | |
| | | < LINE FILTER > | |
| Δ T491 | 1-421-915-11 | COIL, LINE FILTER | |
| Δ T492 | 1-421-915-11 | COIL, LINE FILTER | |
| ***** | | | |
| | A-4726-334-A | A-POWER BOARD, COMPLETE (AEP) | |
| | A-4727-529-A | A-POWER BOARD, COMPLETE (US, Canadian) ***** | |
| | 2-259-121-01 | SCREW, TR | |
| * | 4-931-401-01 | HEAT SINK, V. OUT | |
| | | < CAPACITOR > | |
| C401 | 1-136-818-11 | FILM 0.0047uF 5% 100V | |
| C402 | 1-136-818-11 | FILM 0.0047uF 5% 100V | |
| C403 | 1-137-626-11 | ELECT 6800uF 20% 35V | |
| C404 | 1-137-626-11 | ELECT 6800uF 20% 35V | |
| C405 | 1-109-857-11 | ELECT 47uF 20% 63V | |
| C406 | 1-127-714-21 | FILM 12000PF 5% 50V | |
| C407 | 1-109-857-11 | ELECT 47uF 20% 63V | |
| C408 | 1-127-714-21 | FILM 12000PF 5% 50V | |
| C409 | 1-128-091-11 | ELECT 1000uF 20% 50V | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|--|--------|
| C410 | 1-128-091-11 | ELECT 1000uF 20% 50V | |
| C413 | 1-136-818-11 | FILM 0.0047uF 5% 100V | |
| C414 | 1-136-818-11 | FILM 0.0047uF 5% 100V | |
| C415 | 1-137-626-11 | ELECT 6800uF 20% 35V | |
| C416 | 1-128-197-11 | ELECT 10uF 20% 50V | |
| C417 | 1-128-091-11 | ELECT 1000uF 20% 50V | |
| C418 | 1-125-853-21 | FILM 470PF 5% 50V (US, Canadian) | |
| C464 | 1-136-850-11 | MYLAR 0.1uF 5% 63V | |
| C465 | 1-136-850-11 | MYLAR 0.1uF 5% 63V | |
| C466 | 1-135-697-11 | ELECT 6800uF 16V | |
| C468 | 1-135-836-11 | ELECT 2200uF 16V | |
| C470 | 1-135-836-11 | ELECT 2200uF 16V | |
| C471 | 1-136-850-11 | MYLAR 0.1uF 5% 63V | |
| C472 | 1-136-850-11 | MYLAR 0.1uF 5% 63V | |
| C473 | 1-135-689-11 | ELECT 6800uF 25V | |
| C474 | 1-135-836-11 | ELECT 2200uF 16V | |
| C475 | 1-135-836-11 | ELECT 2200uF 16V | |
| C477 | 1-135-836-11 | ELECT 2200uF 16V | |
| C479 | 1-135-689-11 | ELECT 6800uF 25V | |
| | | < CONNECTOR > | |
| CN401 | 1-691-767-11 | PLUG (MICRO CONNECTOR) 5P | |
| * CN402 | 1-691-774-11 | PLUG (MICRO CONNECTOR) 12P | |
| CN403 | 1-691-770-21 | PLUG (MICRO CONNECTOR) 8P | |
| CN404 | 1-691-765-11 | PLUG (MICRO CONNECTOR) 3P | |
| CN452 | 1-691-766-11 | PLUG (MICRO CONNECTOR) 4P | |
| CN454 | 1-691-769-21 | PLUG (MICRO CONNECTOR) 7P | |
| CN455 | 1-564-505-11 | PLUG, CONNECTOR 2P | |
| | | < DIODE > | |
| D401 | 8-719-079-01 | DIODE F10P20F (R) | |
| D402 | 8-719-079-01 | DIODE F10P20F (R) | |
| D403 | 8-719-079-00 | DIODE F10P20FR | |
| D404 | 8-719-079-00 | DIODE F10P20FR | |
| D405 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| D406 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| D407 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| D408 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| D409 | 8-719-976-99 | DIODE UDZ-TE-17-5.1B | |
| D410 | 8-719-976-99 | DIODE UDZ-TE-17-5.1B | |
| D411 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |
| D459 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | |

| | | |
|----------------|--------------|----------------|
| A-POWER | D.OUT | D-POWER |
|----------------|--------------|----------------|

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------------------|--------|--------------|-------------------------|---|--------|
| D460 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | | R457 | 1-216-073-11 | RES-CHIP 10K 5% 1/10W | |
| D461 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | | R458 | 1-216-073-11 | RES-CHIP 10K 5% 1/10W | |
| D462 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | | R459 | 1-216-073-11 | RES-CHIP 10K 5% 1/10W | |
| D463 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | | R460 | 1-216-073-11 | RES-CHIP 10K 5% 1/10W | |
| D464 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | | | | < THERMISTOR (POSITIVE) > | |
| D465 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | | THP452 | 1-801-578-11 | THERMISTOR, POSITIVE | |
| D466 | 8-719-210-39 | DIODE EC10QS04-TE12L5 | | THP453 | 1-801-578-11 | THERMISTOR, POSITIVE | |
| | | < GROUND TERMINAL > | | ***** | | | |
| EPT403 | 1-537-770-21 | TERMINAL BOARD, GROUND (US, Canadian) | | A-4726-337-A | D.OUT BOARD, COMPLETE | | |
| | | < IC > | | | ***** | | |
| IC401 | 8-759-566-39 | IC OPA2132UA/2K5 | | | < CAPACITOR > | | |
| IC402 | 8-759-566-39 | IC OPA2132UA/2K5 | | C441 | 1-136-850-11 | MYLAR 0.1uF 5% 63V | |
| IC403 | 8-759-231-53 | IC M5F7805L | | C442 | 1-104-645-11 | CERAMIC 1uF 20% 50V | |
| IC452 | 8-759-450-47 | IC BA05T | | C443 | 1-163-251-11 | CERAMIC CHIP 100PF 5% 50V | |
| IC453 | 8-759-450-47 | IC BA05T | | C444 | 1-164-732-11 | CERAMIC 0.1uF 20% 50V | |
| IC454 | 8-759-445-59 | IC BA033T | | C445 | 1-164-732-11 | CERAMIC 0.1uF 20% 50V | |
| IC455 | 8-759-445-59 | IC BA033T | | C446 | 1-107-611-11 | CAPACITOR 100PF 5% 500V | |
| | | < NOISE FILTER > | | C447 | 1-136-850-11 | MYLAR 0.1uF 5% 63V | |
| L401 | 1-424-122-11 | FILTER, NOISE | | C448 | 1-119-824-31 | ELECT 10uF 20% 50V | |
| L402 | 1-424-122-11 | FILTER, NOISE | | | | < CONNECTOR > | |
| L403 | 1-424-122-11 | FILTER, NOISE | | CN441 | 1-506-468-11 | PIN, CONNECTOR 3P | |
| L404 | 1-424-122-11 | FILTER, NOISE | | | | < IC > | |
| L405 | 1-424-122-11 | FILTER, NOISE | | IC441 | 8-759-591-61 | IC TC7WHU04FU (TE12R) | |
| L406 | 1-424-122-11 | FILTER, NOISE | | IC442 | 8-749-012-69 | IC GP1F38T (DIGITAL (CD) OUT OPTICAL) | |
| L407 | 1-424-122-11 | FILTER, NOISE | | | | < JACK > | |
| L457 | 1-424-122-11 | FILTER, NOISE | | J391 | 1-770-905-21 | JACK, PIN 1P (DIGITAL (CD) OUT COAXIAL) | |
| L458 | 1-424-122-11 | FILTER, NOISE | | | | < RESISTOR > | |
| L459 | 1-424-122-11 | FILTER, NOISE | | R441 | 1-216-033-00 | METAL CHIP 220 5% 1/10W | |
| L460 | 1-424-122-11 | FILTER, NOISE | | R442 | 1-216-022-00 | METAL CHIP 75 5% 1/10W | |
| | | < TRANSISTOR > | | | | < COIL > | |
| Q401 | 8-729-107-53 | TRANSISTOR 2SC2275-QP | | T441 | 1-416-701-11 | COIL (WITH CORE) | |
| Q402 | 8-729-107-53 | TRANSISTOR 2SC2275-QP | | ***** | | | |
| Q403 | 8-729-141-10 | TRANSISTOR 2SA985-QP | | A-4726-335-A | D-POWER BOARD, COMPLETE | | |
| Q404 | 8-729-141-10 | TRANSISTOR 2SA985-QP | | | ***** | | |
| Q405 | 8-729-036-56 | FET 2SK208-GR-TE85L | | | < CAPACITOR > | | |
| Q406 | 8-729-036-56 | FET 2SK208-GR-TE85L | | C451 | 1-130-973-00 | MYLAR 0.022uF 5% 100V | |
| | | < RESISTOR > | | C452 | 1-130-973-00 | MYLAR 0.022uF 5% 100V | |
| R401 | 1-259-979-11 | CARBON MELF 47 2% 1/8W | | C453 | 1-130-973-00 | MYLAR 0.022uF 5% 100V | |
| R402 | 1-259-991-11 | CARBON MELF 470 2% 1/8W | | C454 | 1-130-973-00 | MYLAR 0.022uF 5% 100V | |
| R403 | 1-259-991-11 | CARBON MELF 470 2% 1/8W | | C455 | 1-128-562-11 | ELECT 47uF 20% 100V | |
| R404 | 1-259-979-11 | CARBON MELF 47 2% 1/8W | | C456 | 1-165-319-11 | CERAMIC CHIP 0.1uF 50V | |
| R405 | 1-259-995-11 | CARBON MELF 1K 2% 1/8W | | C457 | 1-128-562-11 | ELECT 47uF 20% 100V | |
| R406 | 1-259-995-11 | CARBON MELF 1K 2% 1/8W | | C458 | 1-165-319-11 | CERAMIC CHIP 0.1uF 50V | |
| R407 | 1-259-995-11 | CARBON MELF 1K 2% 1/8W | | C459 | 1-136-850-11 | MYLAR 0.1uF 5% 63V | |
| R408 | 1-259-995-11 | CARBON MELF 1K 2% 1/8W | | C460 | 1-136-850-11 | MYLAR 0.1uF 5% 63V | |
| R409 | 1-259-983-11 | CARBON MELF 100 2% 1/8W | | C461 | 1-135-748-11 | ELECT 4700uF 35V | |
| R410 | 1-259-983-11 | CARBON MELF 100 2% 1/8W | | C463 | 1-135-698-11 | ELECT 10000uF 16V | |
| R411 | 1-259-997-11 | CARBON MELF 1.5K 2% 1/8W | | | | | |
| R412 | 1-259-995-11 | CARBON MELF 1K 2% 1/8W | | | | | |
| R413 | 1-259-997-11 | CARBON MELF 1.5K 2% 1/8W | | | | | |
| R414 | 1-259-995-11 | CARBON MELF 1K 2% 1/8W | | | | | |
| R415 | 1-260-012-11 | CARBON MELF 22K 2% 1/8W | | | | | |

SCD-XA777ES

D-POWER

MOTHER

| Ref. No. | Part No. | Description | Remark |
|---------------------------|--------------|---------------------------|--------|
| C467 | 1-136-850-11 | MYLAR 0.1uF 5% | 63V |
| C469 | 1-135-748-11 | ELECT 4700uF | 35V |
| < CONNECTOR > | | | |
| CN451 | 1-691-768-11 | PLUG (MICRO CONNECTOR) 6P | |
| CN453 | 1-568-955-11 | PIN, CONNECTOR 6P | |
| CN456 | 1-564-505-11 | PLUG, CONNECTOR 2P | |
| CN457 | 1-564-505-21 | PLUG, CONNECTOR 2P | |
| < DIODE > | | | |
| D421 | 8-719-083-67 | DIODE UdzSTE-1720B | |
| D422 | 8-719-083-58 | DIODE DTZ-TT11-3.9B | |
| D423 | 8-719-083-67 | DIODE UdzSTE-1720B | |
| D451 | 8-719-210-33 | DIODE EC10DS2TE12L | |
| D452 | 8-719-210-33 | DIODE EC10DS2TE12L | |
| D453 | 8-719-210-33 | DIODE EC10DS2TE12L | |
| D454 | 8-719-210-33 | DIODE EC10DS2TE12L | |
| D455 | 8-719-210-33 | DIODE EC10DS2TE12L | |
| D456 | 8-719-210-33 | DIODE EC10DS2TE12L | |
| D457 | 8-719-210-33 | DIODE EC10DS2TE12L | |
| D458 | 8-719-210-33 | DIODE EC10DS2TE12L | |
| < FUSIBLE RESISTOR > | | | |
| △FR451 | 1-212-877-11 | FUSIBLE 68 5% | 1/4W |
| < IC > | | | |
| IC451 | 8-759-394-35 | IC BA12T | |
| < COIL/NOISE FILTER > | | | |
| L451 | 1-412-473-51 | INDUCTOR 0uH | |
| L452 | 1-412-473-51 | INDUCTOR 0uH | |
| L453 | 1-424-122-11 | FILTER, NOISE | |
| L454 | 1-424-122-11 | FILTER, NOISE | |
| L455 | 1-424-122-11 | FILTER, NOISE | |
| L456 | 1-424-122-11 | FILTER, NOISE | |
| L461 | 1-424-122-11 | FILTER, NOISE | |
| L462 | 1-424-122-11 | FILTER, NOISE | |
| < TRANSISTOR > | | | |
| Q451 | 8-729-209-71 | TRANSISTOR 2SA12130-TE12L | |
| < RESISTOR > | | | |
| R451 | 1-216-081-00 | METAL CHIP 22K 5% | 1/10W |
| R452 | 1-216-105-00 | RES-CHIP 220K 5% | 1/10W |
| R453 | 1-216-079-00 | METAL CHIP 18K 5% | 1/10W |
| R454 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R455 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| R456 | 1-216-073-11 | RES-CHIP 10K 5% | 1/10W |
| R461 | 1-216-061-00 | RES-CHIP 3.3K 5% | 1/10W |
| R462 | 1-216-081-00 | METAL CHIP 22K 5% | 1/10W |
| R463 | 1-216-013-00 | METAL CHIP 33 5% | 1/10W |
| < THERMISTOR (POSITIVE) > | | | |
| THP450 | 1-801-578-11 | THERMISTOR, POSITIVE | |

| Ref. No. | Part No. | Description | Remark |
|---------------|--------------|---------------------------------------|--------|
| A-4726-333-A | | MOTHER BOARD, COMPLETE (AEP) | |
| A-4727-528-A | | MOTHER BOARD, COMPLETE (US, Canadian) | |
| ***** | | | |
| < CAPACITOR > | | | |
| C301 | 1-115-198-11 | ELECT 470uF 20% | 25V |
| C302 | 1-115-198-11 | ELECT 470uF 20% | 25V |
| C303 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C304 | 1-117-914-51 | ELECT 330uF 20% | 25V |
| C305 | 1-117-775-31 | ELECT 0.1uF 10% | 250V |
| C306 | 1-165-627-21 | FILM 27PF 10% | 50V |
| C307 | 1-165-627-21 | FILM 27PF 10% | 50V |
| C308 | 1-136-850-11 | MYLAR 0.1uF 5% | 63V |
| C309 | 1-136-850-11 | MYLAR 0.1uF 5% | 63V |
| C310 | 1-136-850-11 | MYLAR 0.1uF 5% | 63V |
| C311 | 1-136-850-11 | MYLAR 0.1uF 5% | 63V |
| C312 | 1-136-850-11 | MYLAR 0.1uF 5% | 63V |
| C313 | 1-136-850-11 | MYLAR 0.1uF 5% | 63V |
| C314 | 1-119-800-11 | ELECT 100uF 20% | 25V |
| C315 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C330 | 1-125-853-21 | FILM 470PF 5% | 50V |
| C331 | 1-163-141-00 | CERAMIC CHIP 0.001uF 5% | 50V |
| C332 | 1-163-141-00 | CERAMIC CHIP 0.001uF 5% | 50V |
| C333 | 1-163-141-00 | CERAMIC CHIP 0.001uF 5% | 50V |
| C335 | 1-128-201-11 | ELECT 100uF 20% | 63V |
| C351 | 1-128-201-11 | ELECT 100uF 20% | 63V |
| C352 | 1-128-201-11 | ELECT 100uF 20% | 63V |
| C353 | 1-128-655-21 | FILM 22PF 10% | 50V |
| C354 | 1-128-655-21 | FILM 22PF 10% | 50V |
| C355 | 1-117-775-31 | ELECT 0.1uF 10% | 250V |
| C356 | 1-117-775-31 | ELECT 0.1uF 10% | 250V |
| C357 | 1-117-775-31 | ELECT 0.1uF 10% | 250V |
| C358 | 1-125-850-21 | FILM 220PF 5% | 50V |
| C359 | 1-165-789-21 | FILM 0.0047uF 5% | 50V |
| C360 | 1-128-201-11 | ELECT 100uF 20% | 63V |
| C361 | 1-128-201-11 | ELECT 100uF 20% | 63V |
| C362 | 1-117-775-31 | ELECT 0.1uF 10% | 250V |
| C363 | 1-125-850-21 | FILM 220PF 5% | 50V |
| C364 | 1-165-789-21 | FILM 0.0047uF 5% | 50V |
| C365 | 1-128-201-11 | ELECT 100uF 20% | 63V |
| C366 | 1-128-201-11 | ELECT 100uF 20% | 63V |
| C367 | 1-117-775-31 | ELECT 0.1uF 10% | 250V |
| C368 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C369 | 1-117-775-31 | ELECT 0.1uF 10% | 250V |
| C370 | 1-163-117-00 | CERAMIC CHIP 100PF 5% | 50V |
| C371 | 1-163-117-00 | CERAMIC CHIP 100PF 5% | 50V |
| C372 | 1-119-791-21 | ELECT 330uF 20% | 16V |
| C373 | 1-127-713-21 | FILM 10000PF 5% | 50V |
| C374 | 1-127-713-21 | FILM 10000PF 5% | 50V |
| C380 | 1-163-117-00 | CERAMIC CHIP 100PF 5% | 50V |
| C381 | 1-163-117-00 | CERAMIC CHIP 100PF 5% | 50V |
| C382 | 1-119-791-21 | ELECT 330uF 20% | 16V |
| C390 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C391 | 1-119-801-21 | ELECT 220uF 20% | 16V |
| C392 | 1-119-801-21 | ELECT 220uF 20% | 16V |
| < CONNECTOR > | | | |
| CN301 | 1-770-167-11 | CONNECTOR, FFC/FPC 19P | |

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 pièce portant le numéro spécifié.

MOTHER

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|----------------------------------|--------|----------|--------------|-------------|-----------------------------|
| CN302 | 1-770-167-11 | CONNECTOR, FFC/FPC 19P | | | | | |
| CN304 | 1-774-628-11 | CONNECTOR, BOARD TO BOARD 17P | | R306 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W (AEP) |
| CN305 | 1-766-956-11 | CONNECTOR, BOARD TO BOARD 15P | | | | | |
| CN306 | 1-766-956-11 | CONNECTOR, BOARD TO BOARD 15P | | R306 | 1-216-029-00 | RES-CHIP | 150 5% 1/10W (US, Canadian) |
| * CN352 | 1-770-723-11 | CONNECTOR, BOARD TO BOARD 8P | | R307 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| * CN353 | 1-770-723-11 | CONNECTOR, BOARD TO BOARD 8P | | R308 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| * CN354 | 1-770-723-11 | CONNECTOR, BOARD TO BOARD 8P | | R309 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| * CN392 | 1-568-952-91 | PIN, CONNECTOR (STRAIGHT) 3P | | R310 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | < DIODE > | | R311 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| D301 | 8-719-049-09 | DIODE 1SS367-T3SONY | | R312 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| D351 | 8-719-016-74 | DIODE 1SS352-TPH3 | | R313 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| D390 | 8-719-069-60 | DIODE UDZSTE-179.1B | | R314 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| D391 | 8-719-016-74 | DIODE 1SS352-TPH3 | | R315 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | < SHORT/FERRITE BEAD > | | R316 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| FB302 | 1-216-295-11 | SHORT 0 (AEP) | | R317 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| FB302 | 1-414-234-22 | INDUCTOR, FERRITE (US, Canadian) | | R318 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | < FUSIBLE RESISTOR > | | R319 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| △ FR390 | 1-212-881-11 | FUSIBLE 100 5% 1/4W | | R320 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| △ FR391 | 1-212-889-00 | FUSIBLE 220 5% 1/4W | | R321 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| △ FR392 | 1-212-889-00 | FUSIBLE 220 5% 1/4W | | R322 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | < IC > | | △ R323 | 1-212-865-00 | FUSIBLE | 22 5% 1/4W |
| IC301 | 8-759-486-55 | IC NJM2370U33-TE2 | | R324 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| IC302 | 8-759-591-61 | IC TC7WHU04FU (TE12R) | | R325 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| IC303 | 6-700-067-01 | IC HD74LV161ATELL | | R326 | 1-216-073-11 | RES-CHIP | 10K 5% 1/10W |
| IC304 | 6-700-066-01 | IC HD74LV157ATELL | | R327 | 1-216-073-11 | RES-CHIP | 10K 5% 1/10W |
| IC305 | 6-700-066-01 | IC HD74LV157ATELL | | R328 | 1-216-073-11 | RES-CHIP | 10K 5% 1/10W |
| IC306 | 6-700-066-01 | IC HD74LV157ATELL | | R351 | 1-260-008-11 | CARBON MELF | 10K 2% 1/8W |
| IC307 | 6-700-066-01 | IC HD74LV157ATELL | | R352 | 1-260-008-11 | CARBON MELF | 10K 2% 1/8W |
| IC308 | 6-700-066-01 | IC HD74LV157ATELL | | R353 | 1-260-008-11 | CARBON MELF | 10K 2% 1/8W |
| IC351 | 8-759-566-39 | IC OPA2132UA/2K5 | | R354 | 1-260-002-11 | CARBON MELF | 3.3K 2% 1/8W |
| IC352 | 8-759-566-39 | IC OPA2132UA/2K5 | | R355 | 1-260-001-11 | CARBON MELF | 2.7K 2% 1/8W |
| IC371 | 8-759-711-85 | IC NJM4580E-D | | R356 | 1-260-002-11 | CARBON MELF | 3.3K 2% 1/8W |
| | | < JACK > | | R357 | 1-259-971-11 | CARBON MELF | 10 2% 1/8W |
| J351 | 1-815-742-11 | JACK, PIN 2P (ANALOG 2CH OUT) | | R358 | 1-259-983-11 | CARBON MELF | 100 2% 1/8W |
| | | < COIL > | | R359 | 1-260-028-11 | CARBON MELF | 470K 2% 1/8W |
| L301 | 1-424-153-11 | FILTER, NOISE | | R360 | 1-260-002-11 | CARBON MELF | 3.3K 2% 1/8W |
| L371 | 1-408-619-31 | INDUCTOR 220uH | | R361 | 1-260-008-11 | CARBON MELF | 10K 2% 1/8W |
| L381 | 1-408-619-31 | INDUCTOR 220uH | | R362 | 1-260-008-11 | CARBON MELF | 10K 2% 1/8W |
| | | < TRANSISTOR > | | R363 | 1-260-008-11 | CARBON MELF | 10K 2% 1/8W |
| Q371 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | | R364 | 1-260-002-11 | CARBON MELF | 3.3K 2% 1/8W |
| Q381 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | | R365 | 1-260-001-11 | CARBON MELF | 2.7K 2% 1/8W |
| Q391 | 8-729-900-53 | TRANSISTOR DTC114EKA-T146 | | R366 | 1-260-002-11 | CARBON MELF | 3.3K 2% 1/8W |
| Q392 | 8-729-207-71 | TRANSISTOR RN2405-TE85L | | R367 | 1-259-971-11 | CARBON MELF | 10 2% 1/8W |
| Q393 | 8-729-027-38 | TRANSISTOR DTA144EKA-T146 | | R368 | 1-259-983-11 | CARBON MELF | 100 2% 1/8W |
| | | < RESISTOR > | | R369 | 1-260-028-11 | CARBON MELF | 470K 2% 1/8W |
| R301 | 1-216-041-00 | METAL CHIP 470 5% 1/10W | | R370 | 1-260-002-11 | CARBON MELF | 3.3K 2% 1/8W |
| R302 | 1-260-032-11 | CARBON MELF 1M 2% 1/8W | | R371 | 1-216-093-11 | RES-CHIP | 68K 5% 1/10W |
| R303 | 1-216-025-11 | RES-CHIP 100 5% 1/10W | | R372 | 1-216-085-11 | RES-CHIP | 33K 5% 1/10W |
| R304 | 1-216-033-00 | METAL CHIP 220 5% 1/10W | | R373 | 1-216-085-11 | RES-CHIP | 33K 5% 1/10W |
| R305 | 1-216-033-00 | METAL CHIP 220 5% 1/10W | | R374 | 1-216-093-11 | RES-CHIP | 68K 5% 1/10W |
| | | | | R375 | 1-216-065-00 | RES-CHIP | 4.7K 5% 1/10W |
| | | | | R376 | 1-216-019-00 | METAL CHIP | 56 5% 1/10W |
| | | | | R381 | 1-216-085-11 | RES-CHIP | 33K 5% 1/10W |
| | | | | R382 | 1-216-093-11 | RES-CHIP | 68K 5% 1/10W |
| | | | | R383 | 1-216-085-11 | RES-CHIP | 33K 5% 1/10W |
| | | | | R384 | 1-216-093-11 | RES-CHIP | 68K 5% 1/10W |
| | | | | R385 | 1-216-065-00 | RES-CHIP | 4.7K 5% 1/10W |
| | | | | R386 | 1-216-019-00 | METAL CHIP | 56 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 pièce portant le numéro spécifié.

SCD-XA777ES

MOTHER

| <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> | | | | <u>Remark</u> |
|-----------------|-----------------|--------------------------------|------|----|-------|---------------|
| R390 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R391 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R392 | 1-216-105-00 | RES-CHIP | 220K | 5% | 1/10W | |
| R393 | 1-216-097-11 | RES-CHIP | 100K | 5% | 1/10W | |
| R394 | 1-216-049-11 | RES-CHIP | 1K | 5% | 1/10W | |
| < RELAY > | | | | | | |
| RY351 | 1-755-295-11 | RELAY | | | | |
| < VIBRATOR > | | | | | | |
| X301 | 1-767-406-21 | VIBRATOR, CRYSTAL (11.2896MHZ) | | | | |

MEMO

