

SCD-XE670

SERVICE MANUAL

Ver 1.0 2001.07

US Model
Canadian Model
AEP Model
UK Model



| | |
|------------------------------------|---------------|
| Model Name Using Similar Mechanism | NEW |
| CD Mechanism Type | CDM66B-DVBU6A |
| Base Unit Name | DVBU6A |
| 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 | 103 dB or more |
| Total harmonic distortion rate | 0.0020 % 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 | 98 dB or more |
| Total harmonic distortion rate | 0.0025 % 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 | Square optical | –18 dBm | Wave length: 660 nm |
| OPTICAL * | output connector | | |
| PHONES | Stereo phone jack | 10 mW | 32 ohms |

*Output only the audio signals of the CD

General

| | |
|----------------------------|--|
| Laser: | Semiconductor laser (SACD: $\lambda = 650$ nm) (CD: $\lambda = 780$ nm) Emission duration: continuous |
| Power requirements | 120 V AC, 60 Hz |
| Power consumption | 26 W |
| Dimensions (w/h/d) (w/h/d) | 430 × 95 × 285 mm (17 x 3 3/4 x 11 1/4 in.) incl. projecting parts |
| Mass (approx.) | 3.9 kg (9 lbs 5 oz) |

Supplied accessories

This player comes with the following items:

- Audio connecting cord
phono jack × 2 (Red and White) ↔ phono jack × 2 (Red and White) (2)
phono jack × 1 (Black) ↔ phono jack × 1 (Black) (2)
- Remote commander RM-SX700 (1)
- Size AA (R6) batteries (2)

Design and specifications are subject to change without notice.

SUPER AUDIO CD PLAYER

SONY®

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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.

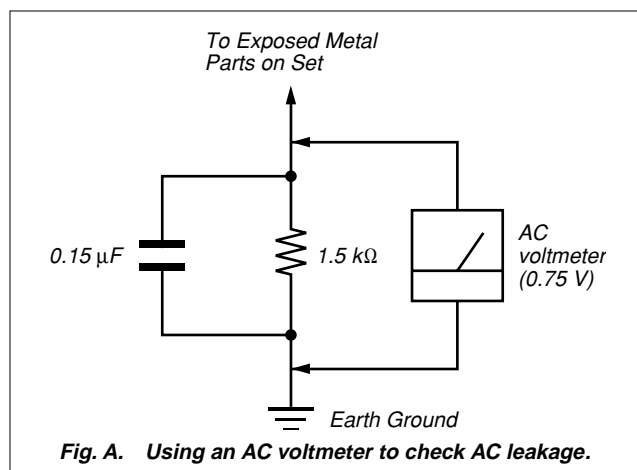
SAFETY CHECK-OUT

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)



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.

CAUTION

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

This label is located on the LEFT exterior.

CAUTION-
Laser radiation when open.
DO NOT STARE INTO BEAM.
3-976-231-21

This appliance is classified as a CLASS 1 LASER product.

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

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

The following caution label is located inside the unit.

CAUTION : VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL : SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDSK UDSÆTTELSE FOR STRÅLING.
VORSICHT : SICHTBARE UND UNSICHTBARE LASERSTRÄHLUNG WENN ABOECHEUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
VARO : NÄKYVÄÄ JA NÄKYMÄTÖN ÄVÄTTÄESSÄ OLET ALTTIINA LASERSTRÄLLELLE. ÄLÄ KATSO SUITESIEN.
VARNING : SYNLIG OCH OSYNLIG LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG.
ADVARSEL : SYNLIG OG USYNLIG LASERSTRÅLING NÄR DEKSEL ÅPNES. UNDSK UDSÆTTELSE FOR STRÅLING.
FIGYELEM : A BUKKOLAT MEGBONTÁSOKOR LÁTHATÓ ES LÁTHATATLAN LÉZERSUGÁR LEHET KI A KÉSZÜLÉKBŐL. ÖRMEKÖLÖN A KÖZVELELEN LÉZERSUGÁRTÓL.

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.

SECTION 1 SERVICING NOTES

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.

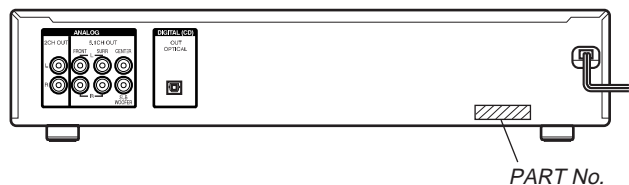
CLEANING OF OPTICAL PICK-UP LENS

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.

MODEL IDENTIFICATION

– Rear Panel –



| MODEL | PART No. |
|-------------------|--------------|
| AEP and UK models | 4-234-033-0□ |
| US model | 4-234-033-2□ |
| Canadian model | 4-234-033-4□ |

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

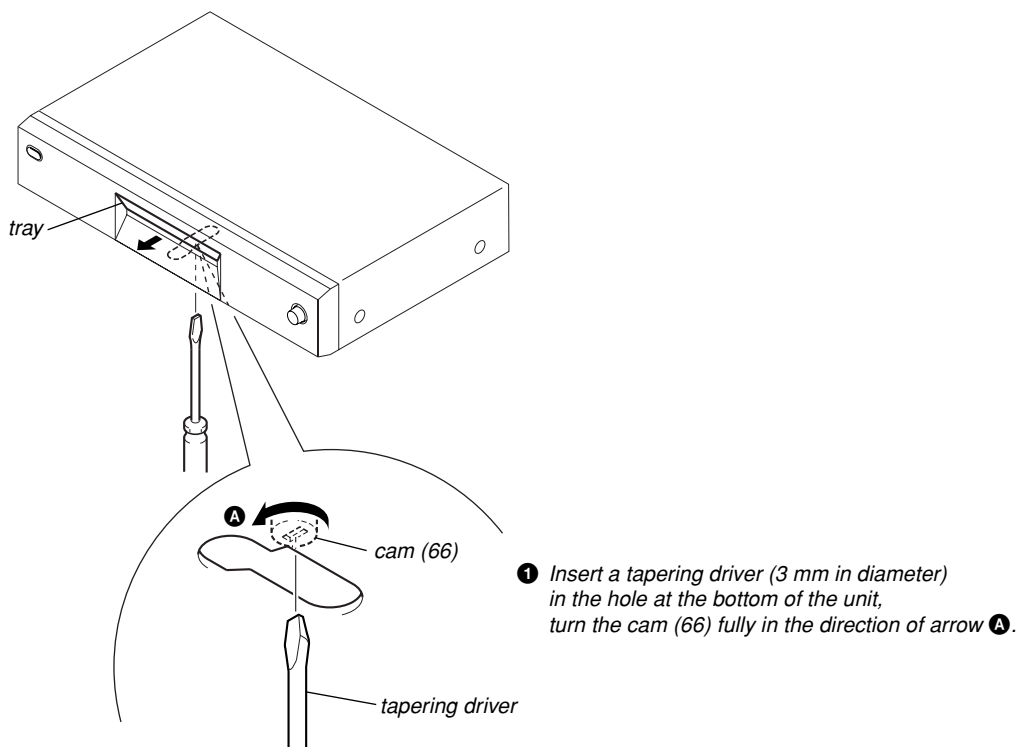
(2) SACD (single layer)

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)

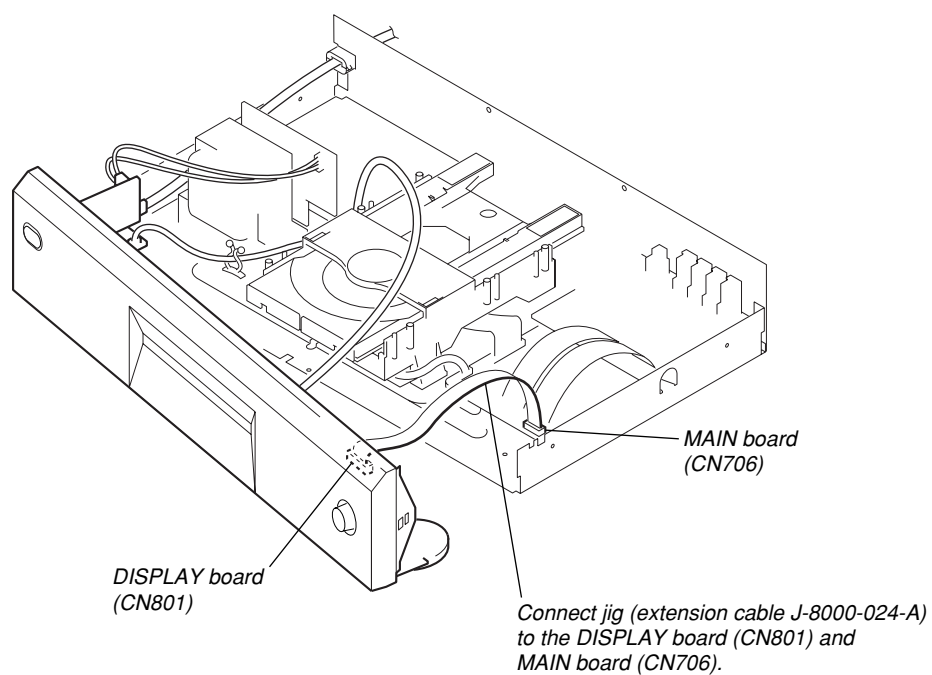
1. Sled reverse move (sled in)
2. Disc detect
3. IC setting for SACD
4. Servo error signal offset auto adjustment
5. Spindle kick for LD on
6. LD on
7. Focus search
8. Focus servo on (layer 0)
9. Spindle kick
10. Spindle servo on
11. E-F balance auto adjustment (layer 0)
12. Tracking & sled servo on (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 TRAY WHEN POWER SWITCH TURNS OFF



DISPLAY BOARD SERVICE POSITION

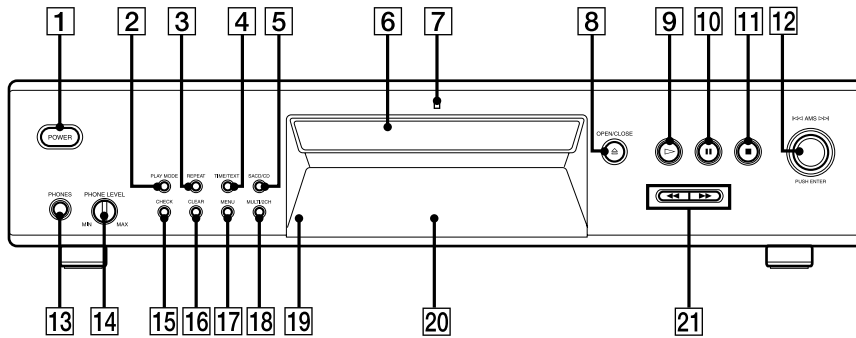
In checking the DISPLAY board, prepare jig (extension cable J-8000-024-A : 1.00 mm Pitch, 12 cores, Length 300 mm.)



**SECTION 2
GENERAL**

This section is extracted from instruction manual.

Front Panel

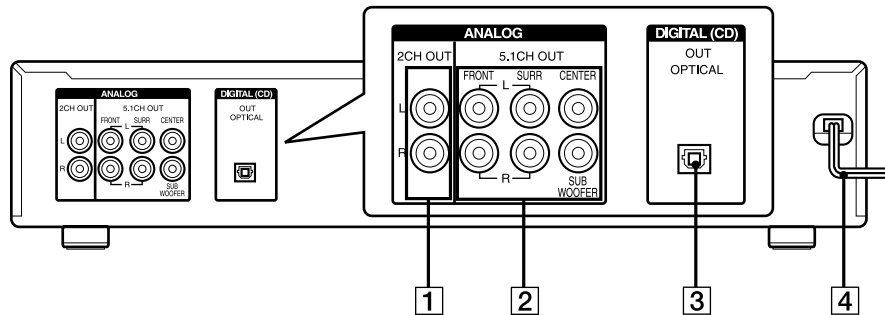


CHECK **15** (18)
 CLEAR **16** (18)
 Disc tray **6** (10)
 Display **20** (11)
 MENU **17** (10, 20)
 MULTI/2CH **18** (9, 11)
 Multi-Channel indicator **7**
 PHONE LEVEL **14** (25)

PHONES jack **13**
 PLAY MODE **2** (17, 18)
 POWER **1** (10)
 Remote sensor **19** (6)
 REPEAT **3** (16)
 SACD/CD **5** (9, 11)
 TIME/TEXT **4** (11)

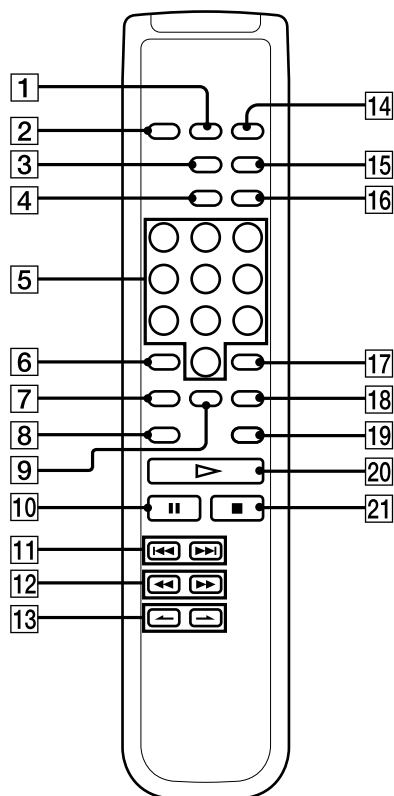
BUTTON DESCRIPTIONS
 ◀◀AMS▶▶ dial **12** (10, 11, 14, 15, 19, 20)
 ⏪ OPEN/CLOSE **8** (10, 18)
 ▶ **9** (10, 15, 16, 17, 18)
 ■ **10** (11)
 ■ **11** (11, 16, 19)
 ◀◀/▶▶ **21** (15)

Rear Panel



ANALOG 2CH OUT L/R jacks **1** (8)
 ANALOG 5.1CH OUT jacks **2** (6)
 DIGITAL (CD) OUT OPTICAL jack **3** (8)
 Mains lead **4** (8)

Remote Control



A↔B **8** (16)
 AMS ◀◀/▶▶ **11** (14, 15, 17, 22)
 CHECK **9** (18)
 CLEAR **18** (18)
 CONTINUE **2** (17, 18)
 DISPLAY MODE **3** (12)
 ENTER **17** (22)
 INDEX ◀/▶ **13** (15)

LEVEL ADJ **19** (22)
 MULTI/2CH **16** (9, 11)
 Number buttons **5** (14, 18)
 PROGRAM **14** (18)
 REPEAT **7** (16)
 SACD/CD **15** (9, 11)
 SHUFFLE **1** (17)
 TIME/TEXT **4** (11)

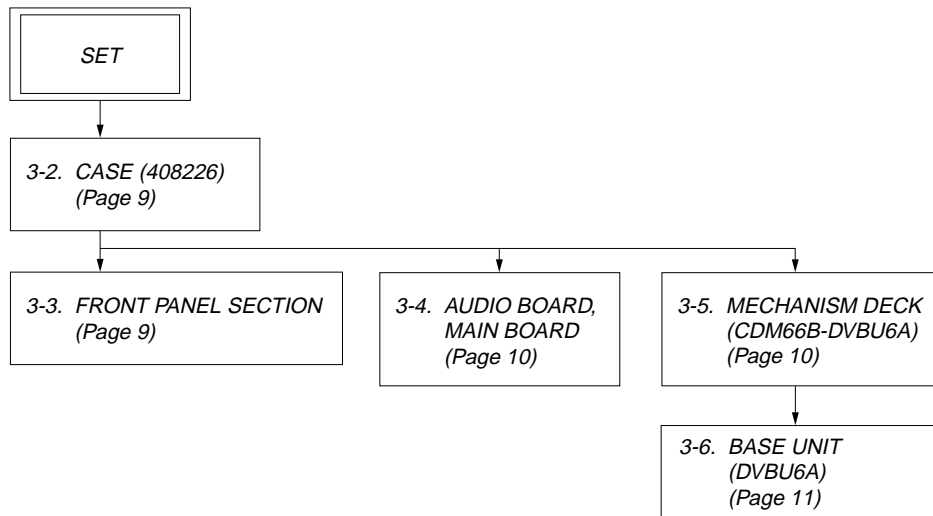
BUTTON DESCRIPTIONS

>10 **6** (14, 18)
 ▷ **20** (10, 15, 16, 17, 18)
 ■ **10** (11)
 ■ **21** (11, 16, 19)
 ◀◀/▶▶ **12** (15)

SECTION 3 DISASSEMBLY

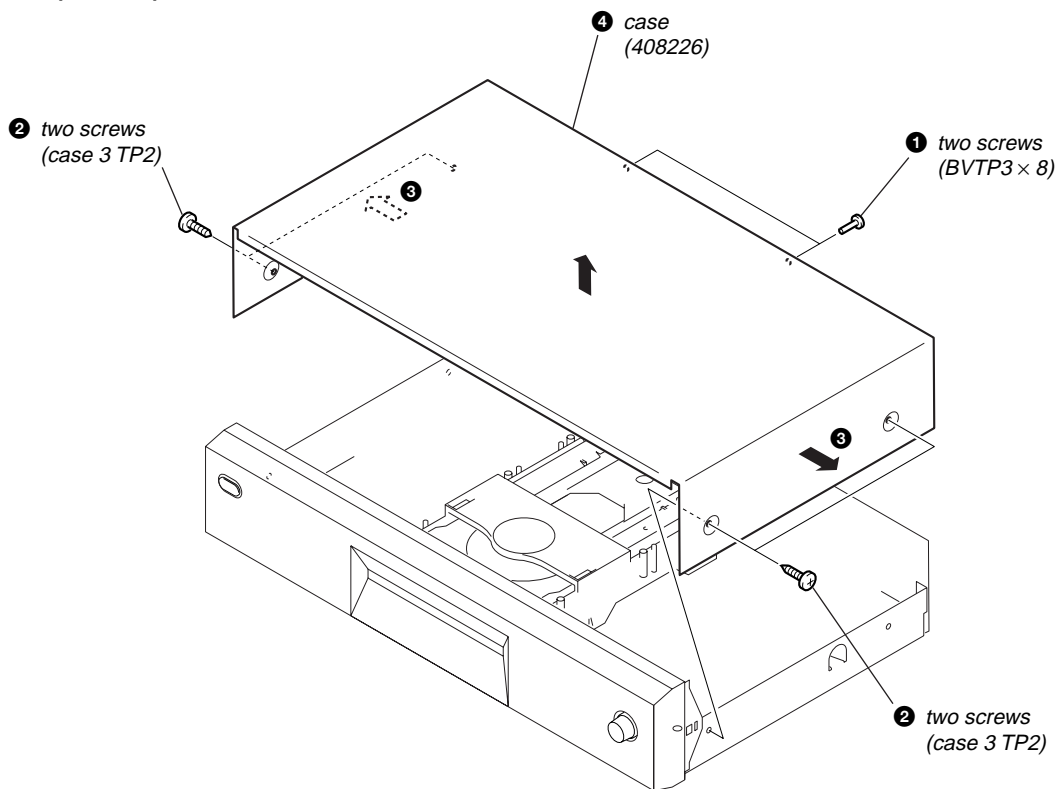
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

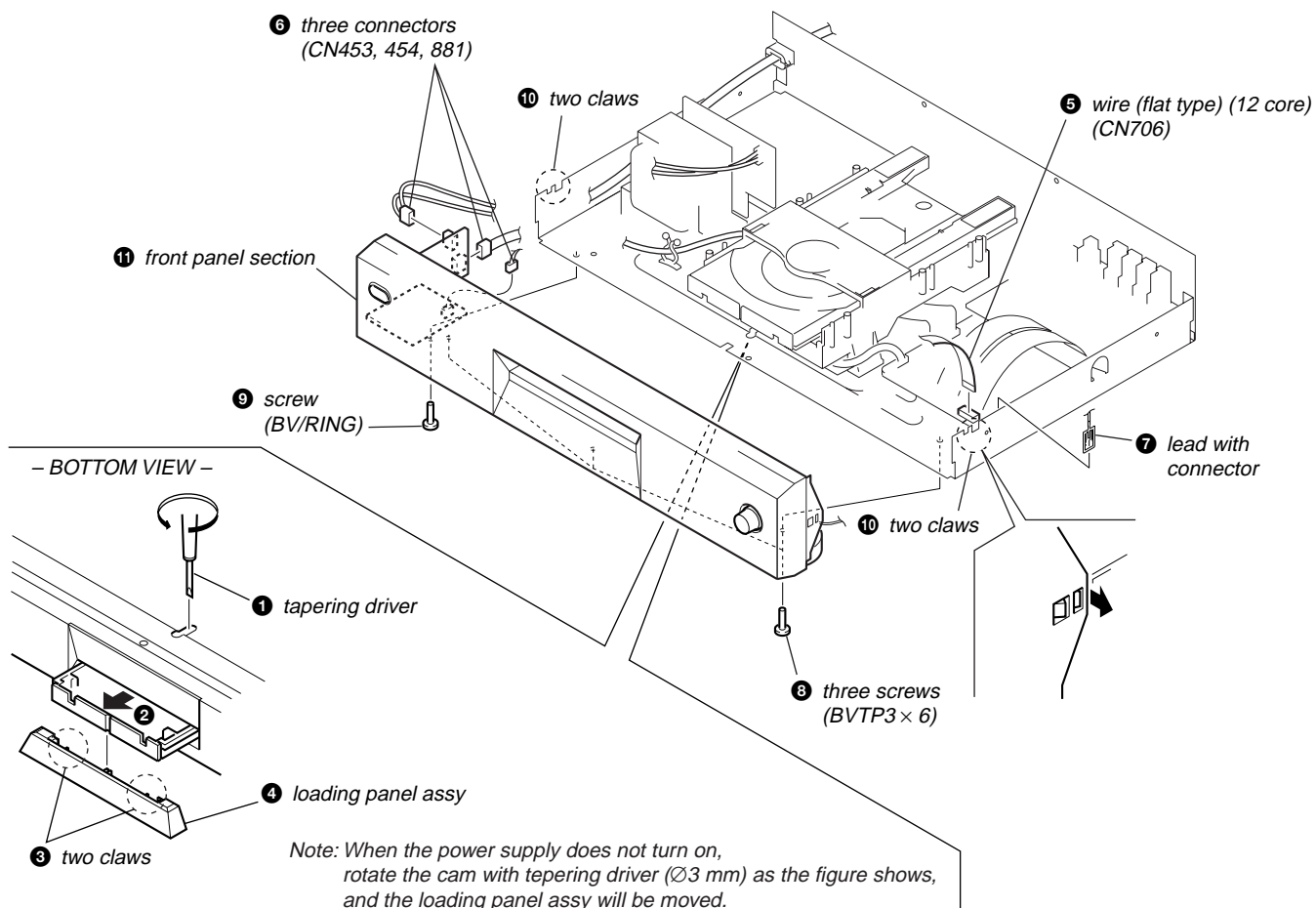


Note: Follow the disassembly procedure in the numerical order given.

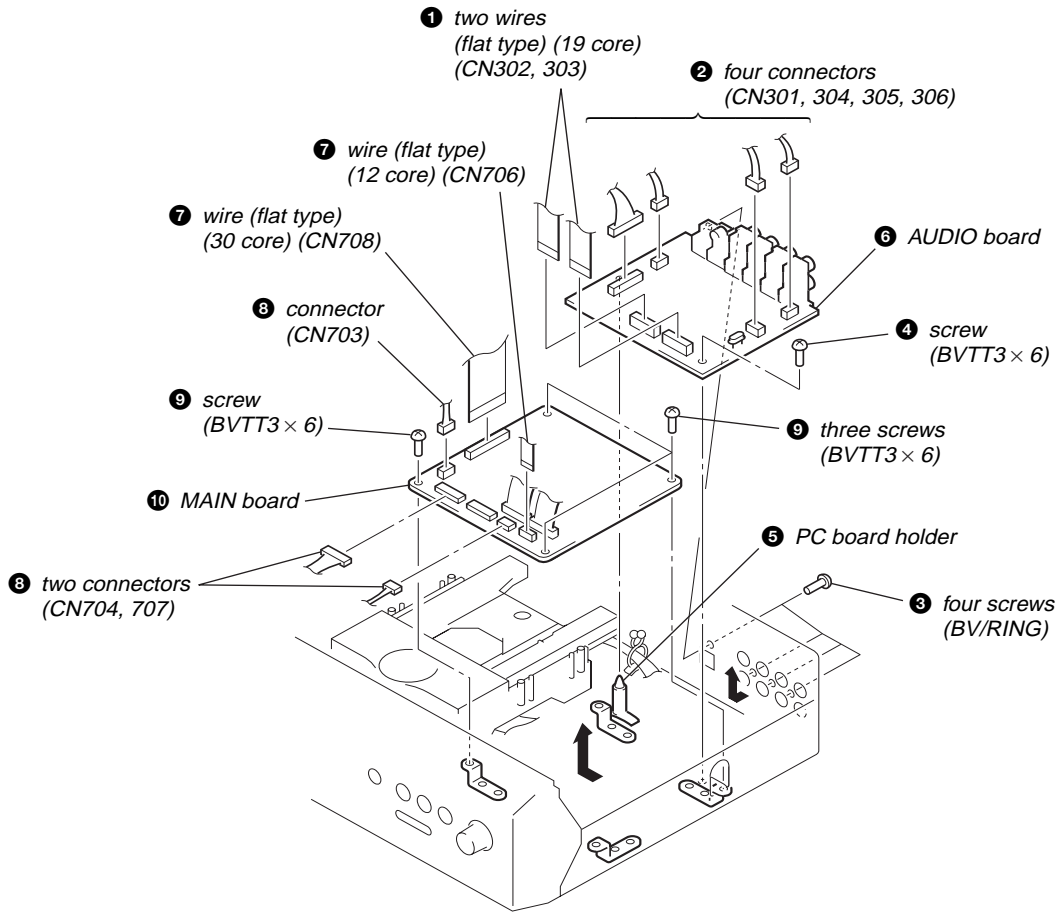
3-2. CASE (408226)



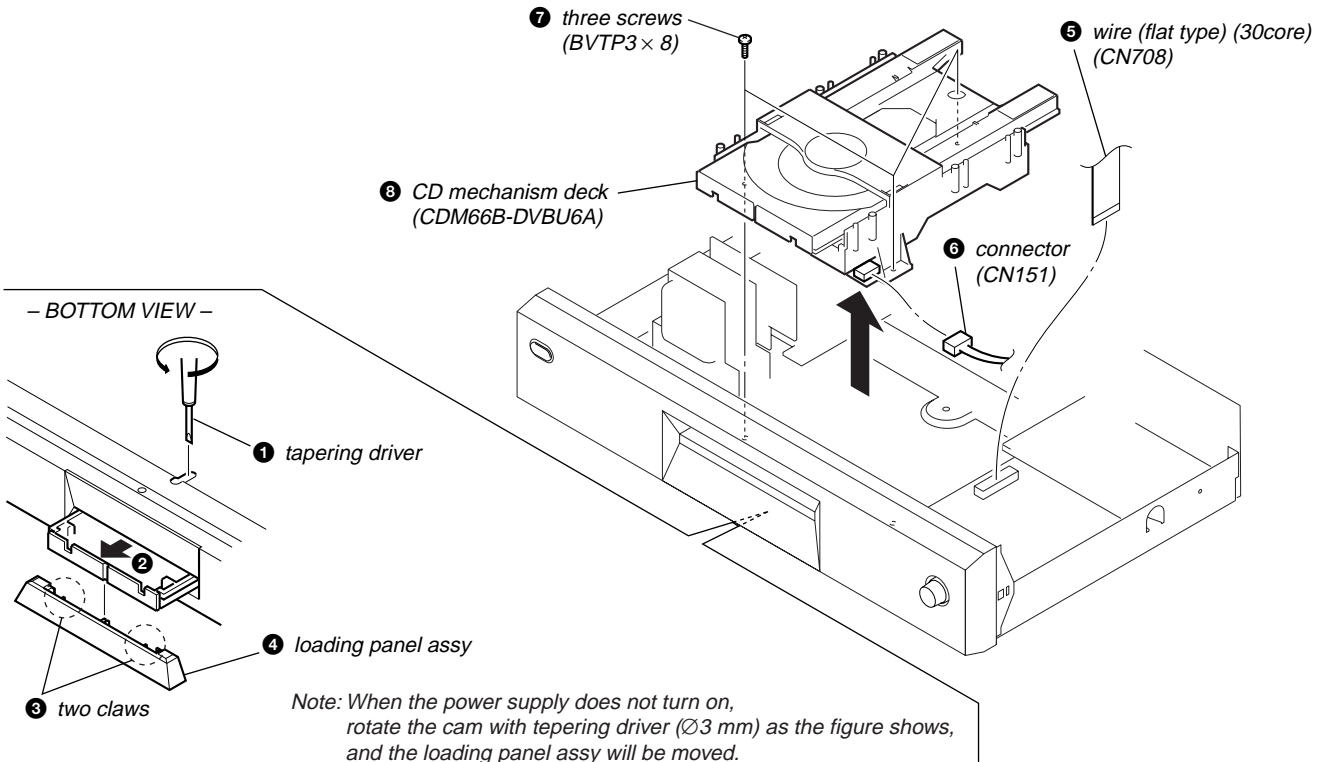
3-3. FRONT PANEL SECTION



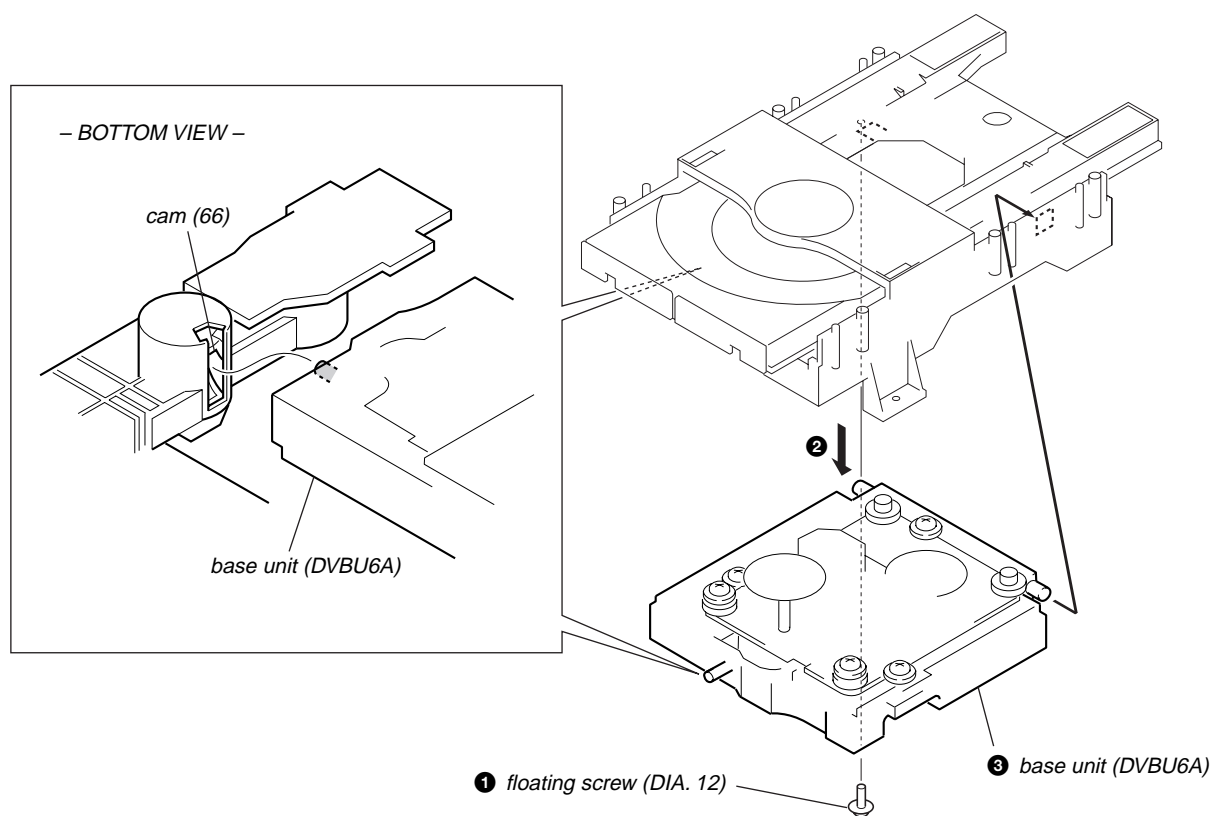
3-4. AUDIO BOARD, MAIN BOARD



3-5. MECHANISM DECK (CDM66B-DVBU6A)



3-6. BASE UNIT (DVBU6A)



SECTION 4 TEST MODE

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 **MENU** button. Release the **MENU** button and the **AMS** dial in this order when "Test Mode Menu" is displayed on the fluorescent indicator 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 (page 14) |
| 62 | SetDiscMode | Enter disc type CD setting | CD forced setting |
| 63 | | Enter disc type SL setting | SL forced setting |
| 64 | | Enter disc type DD setting | DD forced setting |
| 65 | | Enter disc type HYBRID HD setting | HD forced setting |
| 66 | | Enter disc type HYBRID CD setting | CD forced setting |
| 6F | Download | | Not used for the servicing |

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 (page 12) |
| 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 (page 17) Refer to auto check items (page 17) |
| 8A | FL TEST | | Not used for the servicing |
| 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 (page 21) |
| 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)

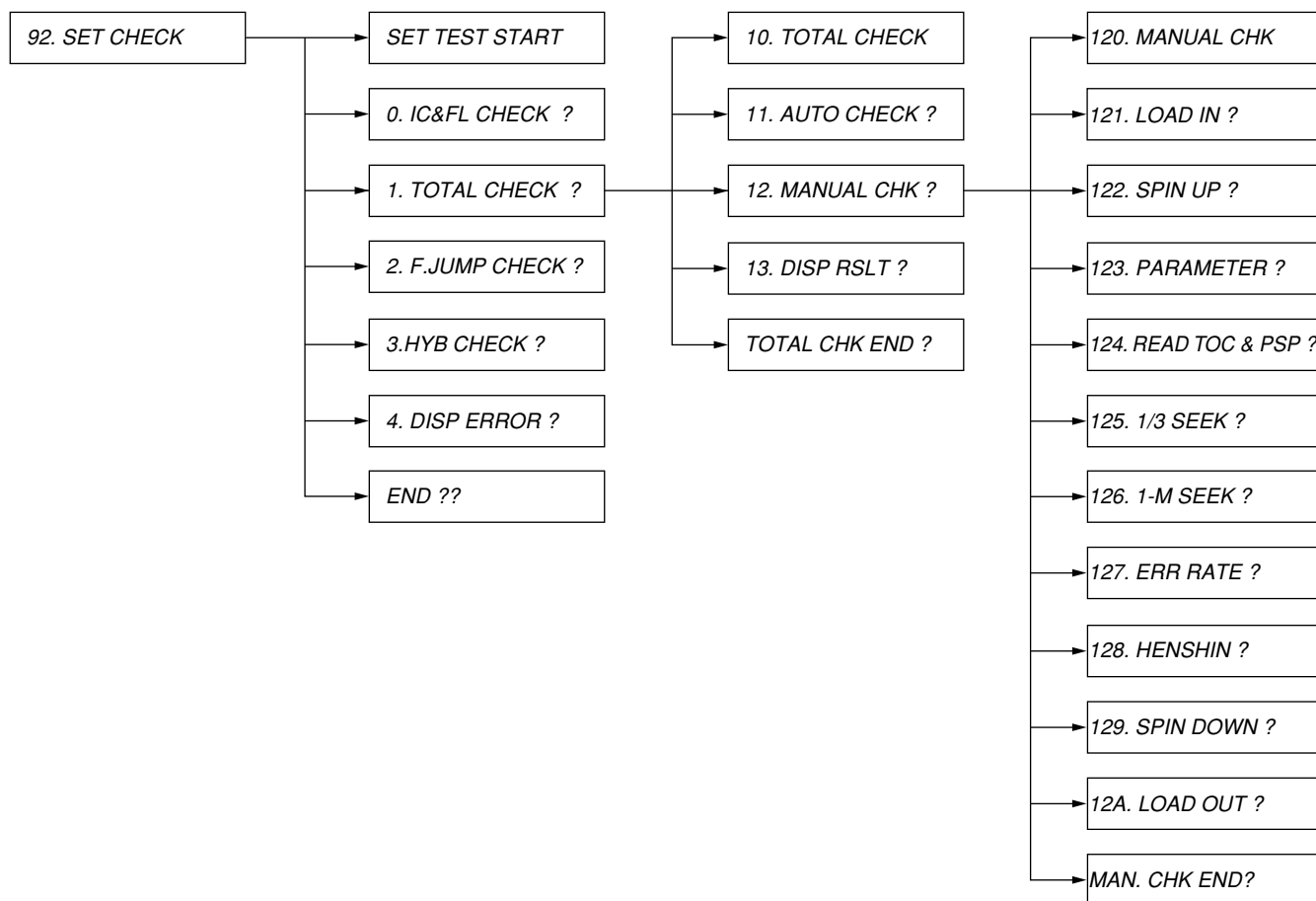
| No. | Name | Description | Remarks |
|-----|-------------|---|---|
| 91 | FJMP CHECK | | Not used for the servicing |
| 92 | SET CHECK | The set is checked | Refer to 4-2. AUTO CHECK (page 17) |
| 93 | WATER MARK | | Not used for the servicing |
| 94 | SET AGING | The set aging is performed Repeat by the specified number of times or until an error occurred | Refer to 4-5. AGING MODE (page 21) |
| 95 | DISP ERROR | The content of error recorded to the set is read and displayed (Error recording) Only one item is recorded | Refer to Error Display list (page 22) |
| 96 | D-OUT OnOff | Digital out of CD is turned on or off | Not used in this set. |
| 98 | APDD 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 (page 23) |
| 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 **[◀◀ AMS ▶▶]** dial to select a command, and press the **[◀◀ AMS ▶▶]** 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 **[◀◀ AMS ▶▶]** 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 & PSP 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 microcomputer 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 ⑩ (XRST) does not go "H" <ul style="list-style-type: none"> • IC901 pin ⑤ (XDIS) does not go "H" • IC902 (expander) is faulty 3. 768fs (33.86688 MHz) is not present to IC701 pin ⑩ (XTAL) <ul style="list-style-type: none"> • IC811 (3-multiplying circuit) is faulty • Clock signal 256fs is not sent from AUDIO board (CN702 pin ⑩) • CN701 pin ③ (GND) and pin ② (+3.3V-D) are open or shorted • CN701, 702 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 ⑩ (XRST) does not go "H" <ul style="list-style-type: none"> • IC901 pin ⑤ (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 <ul style="list-style-type: none"> • D+3.3V is not present to IC706 |
| 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) <ul style="list-style-type: none"> • 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 ⑤ (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) <ul style="list-style-type: none"> • 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 ⑤ (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 <ul style="list-style-type: none"> • 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 CN708 on MAIN board and CN005 on RF board, or FFC disconnection <ul style="list-style-type: none"> • CN708 pin ⑦ (CLK RF), pin ⑩ (DATA RF) and pin ⑩ (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:

- After setting the test mode, rotate the [◀◀ AMS ▶▶] dial to select “92. SET CHECK” and press the [◀◀ AMS ▶▶] dial to enter.
- 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.
- 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:

- Press the [OPEN/CLOSE] button to open the tray and place the test disc *1. The [OPEN/CLOSE] key is disabled immediately after setting the test mode. Be sure to initialize the table.
- Press the [◀◀ AMS ▶▶] dial, and the following check will be performed automatically.
- Finally, the test disc will be ejected and the auto check will finish.
- “AUTO CHECK OK” will be displayed at successful completion of auto check.
- Recheck is enabled if the [◀◀ AMS ▶▶] dial is pressed in step 4. (Also, use this operation when exchanging the test disc)
- 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 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 TRK SEEK 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, PI1 and PI2 | Measure for 10 sec at track No.5 For the SACD, 160 block data except the data under tracking jump |

| Items | Description | Remarks |
|-----------------------|---|--|
| HENSHIN RYOU | 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 |
| 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.

1. When "AUTO CHECK OK" is displayed, rotate the [◀◀ AMS ▶▶] dial clockwise by 2 clicks.
2. When "13. DISP RSLT?" is displayed, press the [◀◀ AMS ▶▶] dial to enter.
3. "PLEASE WAIT" will be displayed and in several seconds, "13. DISP RESULT" will be displayed.
4. Rotate the [◀◀ AMS ▶▶] dial clockwise by 1 click, and the "LOAD IN" will be displayed.
5. Press the [◀◀ AMS ▶▶] dial to enter. The LOAD IN TIME measured value will be displayed.
6. Compare the displayed value with the following specified value.
7. Hence, repeat step 4 to 6 (display is variable) and read the measured data respectively.
8. 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) : 2110 | 1300 to 2000 |
| SPIN UP TIME (msec) : 1993 | 1800 to 2450 |
| PF/VC/FE/TE AVR (ORG) : 8E, E, 1E2, 12 | RF: 91-C8, VC: 1F8-8, FE: 1D1-30, TE: 198-75 |
| PF/VC/FE/TE AVR (ADJ) : 9D, E, 6, 2 | RF: 91-AF, VC : 1F8-8, FE: 1EE-12, TE: 1EA-16 |
| PI/TRVS PP (ORG/ADJ) : 80, 129, 100, 90 | PI ORG: 80-100, PI ADJ: 80-95, TRVS ORG: 53-118, TRVS ADJ: 45-132 |
| PIOR/CCR/TRCR : 1B, 31, 1F | No specified value given |
| FOCUS/TRK GAIN : 29, 35 | FOCUS: 1E-35, TRK: F-40 |
| FBIAS/TRVSC/TRCR2 : 2FE, 14, 6 | F.BIAS: 1E2-3A, TRVSC: 1E4-4D TRCR2: no specified value given |
| READ TOC TIME (msec) : 1098 | 1350 to 2050 |
| PSP AMPLITUDE : 2387 | 1450 to 2150 |
| 1/3 SEEK TIME : 2268581, 625121, <_>, 1446850 F) AVE/MIN/MAX (msec) : 926, 909, 938 R) AVE/MIN/MAX (msec) : 919, 901, 937 | AVE: 1150 msec or less, MAX: 1300 msec or less AVE: 1150 msec or less, MAX: 1300 msec or less |
| 1/MAX SEEK TIME : 2268581, 0, <_>, 2268581 F) AVE/MIN/MAX (msec) : 1846, 1819, 1879 R) AVE/MIN/MAX (msec) : 1837, 1829, 1849 | AVE: 2250 msec or less, MAX: 2500 msec or less AVE: 2250 msec or less, MAX: 2500 msec or less |
| ERROR RATE PO MAX/AVE FRAME : 0, 0 PO MAX/AVE NUM : 480, 28 PI1 MAX/AVE FRAME : 0, 0 PI1 MAX/AVE NUM : 320, 11 PI2 MAX/AVE FRAME : 0, 0 PI2 MAX/AVE NUM : 41, 0 | MAX: 0, AVE: 0 MAX: 1500 or less, AVE: 200 or less MAX: 0, AVE: 0 MAX: 1500 or less, AVE: 200 or less MAX: 0, AVE: 0 MAX: 1500 or less, AVE: 200 or less |
| SPIN DOWN TIME (msec) : 1312 | 1300 to 2100 |
| LOAD OUT TIME (msec) : 1934 | 1300 to 1850 |

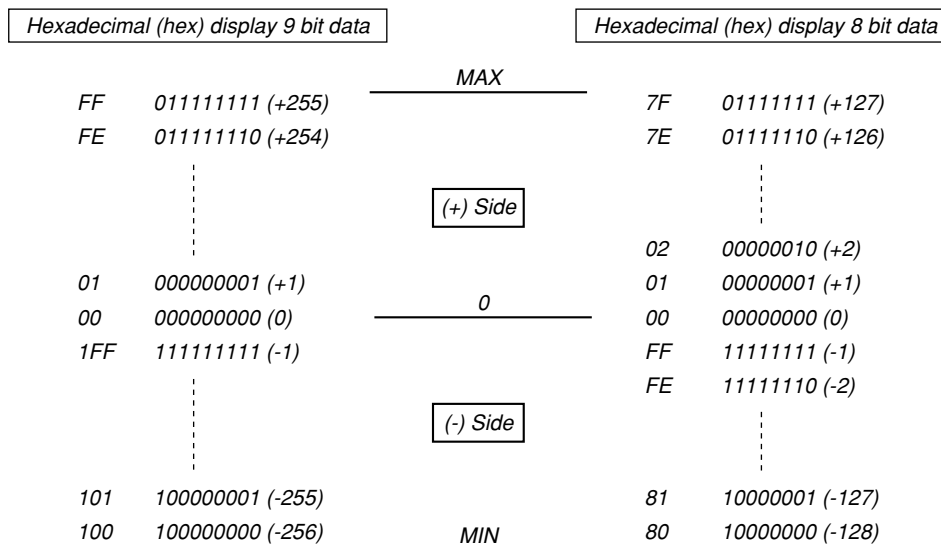
* Items are not used in the SATD-S5.

(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) : 2108 | 1300 to 2000 |
| SPIN UP TIME (msec) : 1354 | 1300 to 1600 |
| RF/VC/FE/TE AVRG (ORG) : 8E, D, 1E3, 12 | RF: 91-C8, VC: 1F8-8, FE: 1D1-30, TE: 198-75 |
| RF/VC/FE/TE AVRG (ADJ) : 9C, C, 6, 2 | RF: 91-AF, VC: 1F8-8, FE: 1EE-12, TE: 1EA-16 |
| PI/TRVS PP(ORG/ADJ) : 84, 128, 100, 90 | PI ORG: 80-100, PI ADJ: 80-95, TRVS ORG: 55-155, TRVS-ADJ: 50-120 |
| PIOR/CCR/TRCR : 1B, 11, 1E | No specified value given |
| FOCUS/TRK GAIN : 33, 28 | FOCUS: 24-53, TRK: 1A-4E |
| FBIAS/TRVSC/TRCR2 : 10, 0, 5 | F.BIAS: 1D9-2A, TRVSC: 1E2-19 TRCR2: no specified value given |
| MIN JITTER AT F.BIAS : 147 | 700 or less |
| READ TOC TIME (msec) : 827 | 1150 to 3150 |
| 1/3 SEEK TIME : 311660, 103786, <_>, 207722 | |
| F) AVE/MIN/MAX (msec) : 794, 699, 908 | AVE: 1200 msec or less, MAX: 1300 msec or less |
| R) AVE/MIN/MAX (msec) : 824, 661, 920 | AVE: 1200 msec or less, MAX: 1300 msec or less |
| 1/MAX SEEK TIME : 311660, 0, <_>, 311660 | |
| F) AVE/MIN/MAX (msec) : 1991, 1964, 2015 | AVE: 2200 msec or less, MAX: 2500 msec or less |
| R) AVE/MIN/MAX (msec) : 1711, 1701, 1726 | AVE: 2200 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) : 168 | 800 or less (100 um or less) |
| SPIN DOWN TIME (msec) : 1342 | 450 to 1500 |
| LOAD OUT TIME (msec) : 1962 | 1300 to 1850 |

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.



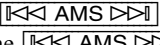
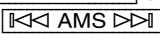
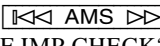
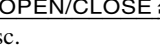
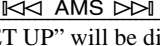
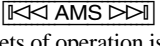
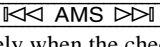
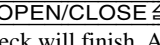
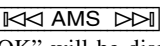
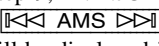
4-3. SACD (DL) DISC OPERATION CHECK

(• 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:

1. After setting the test mode, rotate the  dial to select "92. SET CHECK" and press the  dial to enter.
 2. When "SET TEST START" is displayed, rotate the  dial clockwise by 3 clicks to display "2. F.JMP CHECK?".
 3. Press the  button to open the tray, and place the DL disc.
 4. Press the  dial to load the tray into the set.
 5. "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)
 6. At the completion of setup, "F.JUMP TIMES" will be displayed.
 7. Rotate the  dial clockwise by 5 clicks to display "5". (If 5 sets of operation is executed *1)
 8. Press the  dial, and the check will start.
 9. 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. (page 21)
 10. 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.

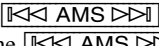
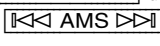
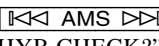
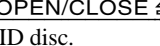
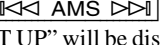
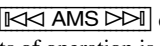
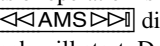
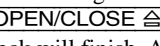
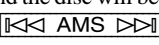
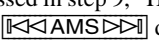
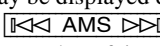
4-4. HYBRID DISC OPERATION CHECK

(• 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:

1. After setting the test mode, rotate the  dial to select "92. SET CHECK" and press the  dial to enter.
 2. When "SET TEST START" is displayed, rotate the  dial clockwise by 4 clicks to display "3. HYB CHECK?".
 3. Press the  button to open the tray, and place the HYBRID disc.
 4. Press the  dial to load the tray into the set.
 5. "NOW SET UP" will be displayed and the HYBRID disc setup will start. (It takes about several seconds to set up the disc *1)
 6. At the completion of setup, "CHANGE TIMES?" will be displayed.
 7. Rotate the  dial clockwise by 5 clicks to display "5" (if 5 sets of operation is executed *2)
 8. 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.
 9. 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. (page 21)
 10. 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)

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, and press the **[◀◀ AMS ▶▶]** dial to start the aging.
5. 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

1. Initialization of EEPROM (IC903)
 - PLAY MODE ALL DISCS, CONTINUE
 - COMMAND MODE CD1
 - LAYER SELECTSACD
 - M/2CH SELECT MULTI
 - DIGITAL FILTER STD
 - 2ch SPK MODE 2ch DIRECT
 - Mch SPK MODEMch DIRECT
 - Resetting the accumulated hours meter.
2. Chucking at the DISC1 position.

SCD-XE670

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

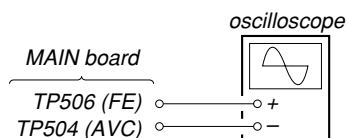
The BU electrical adjustment mode is used to check the S curve waveform, traverse waveform and RF waveform. After a disc is placed on the tray, each time the **[◀◀ AMS ▶▶]** dial is pressed, the check mode is switched in order for S curve waveform→traverse waveform→RF waveform.

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:



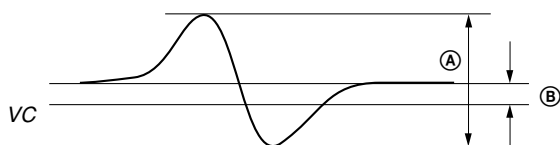
Checking Method:

- 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.
- 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.
- Press again the **[◀◀ AMS ▶▶]** dial, and the S curve waveform check mode will become active and "S-CURVE MODE" will be displayed.
- Connect an oscilloscope to the TP506 (FE) and TP504 (AVC) on the MAIN board.
- 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

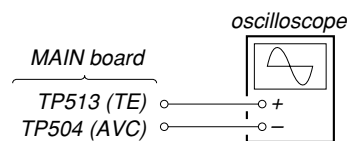


Note: For easier observation of this waveform, extend the sweep time and raise the brightness.

Checking and Connecting Location : See page 25.

Traverse Check

Connection:



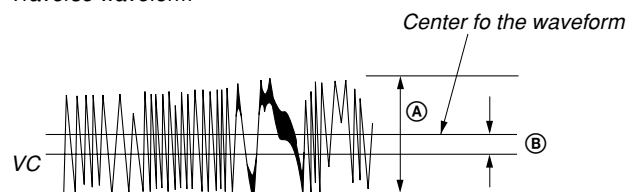
Checking Method:

- Under the condition of S curve waveform check mode in step 5, press the **[◀◀ AMS ▶▶]** dial.
- After "WAIT" is displayed, the traverse waveform check mode will become active and "TRAVERSE MODE" will be displayed.
- Connect an oscilloscope to the TP513 (TE) and TP504 (AVC) on the MAIN board.
- 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 1.4 Vp-p | -0.1 to +0.1V |
| PATD-012 or YEDS-18 | | |

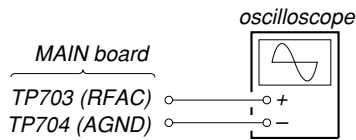
Traverse waveform



Checking and Connecting Location : See page 25.

RF Level Check

Connection:



Checking Method:

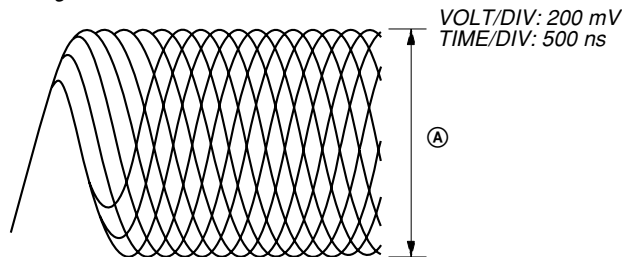
- Under the condition of traverse waveform check mode in step 4, press the **[◀◀ AMS ▶▶]** dial.
- Connect an oscilloscope to the TP703 (RFAC) and TP704 (AGND) on the MAIN board.
- After "WAIT" is displayed, the RF waveform check mode will become active and "PLAY 5th TRACK" will be displayed, and the 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 "OUTSIDE TRACK" 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 "INSIDE TRACK" 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 | Ⓐ |
|------------------------|-----------------|
| SATD-S5 or SATD-S4 | 0.9 to 1.4 Vp-p |
| PATD-012 or YEDS-18 | |

RF signal waveform

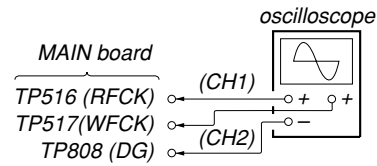


Note: Clear RF waveform refers to the waveform where \diamond shapes should be distinctively observed in the center.

Checking and Connecting Location : See page 25.

CLV Jitter Check (CD only)

Connection:



Checking Method:

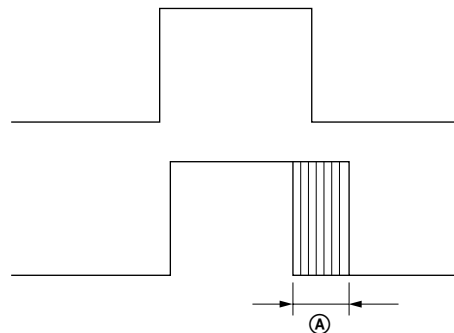
- Set the test mode.
- Connect an oscilloscope to the TP516 (RFCK) (CH1), TP517 (WFCK) (CH2) and TP808 (DG) (GND) on the MAIN board.
- Place the test disc PATD-012 or YEDS-18 on the tray, and close the tray.
- Rotate the **[◀◀ AMS ▶▶]** dial to select "61 DISC DETECT", and press the **[◀◀ AMS ▶▶]** dial 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 13))
- 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 Ⓐ 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 | Ⓐ |
|------------------------|-----------------|
| PATD-012 or YEDS-18 | 35 μsec or less |

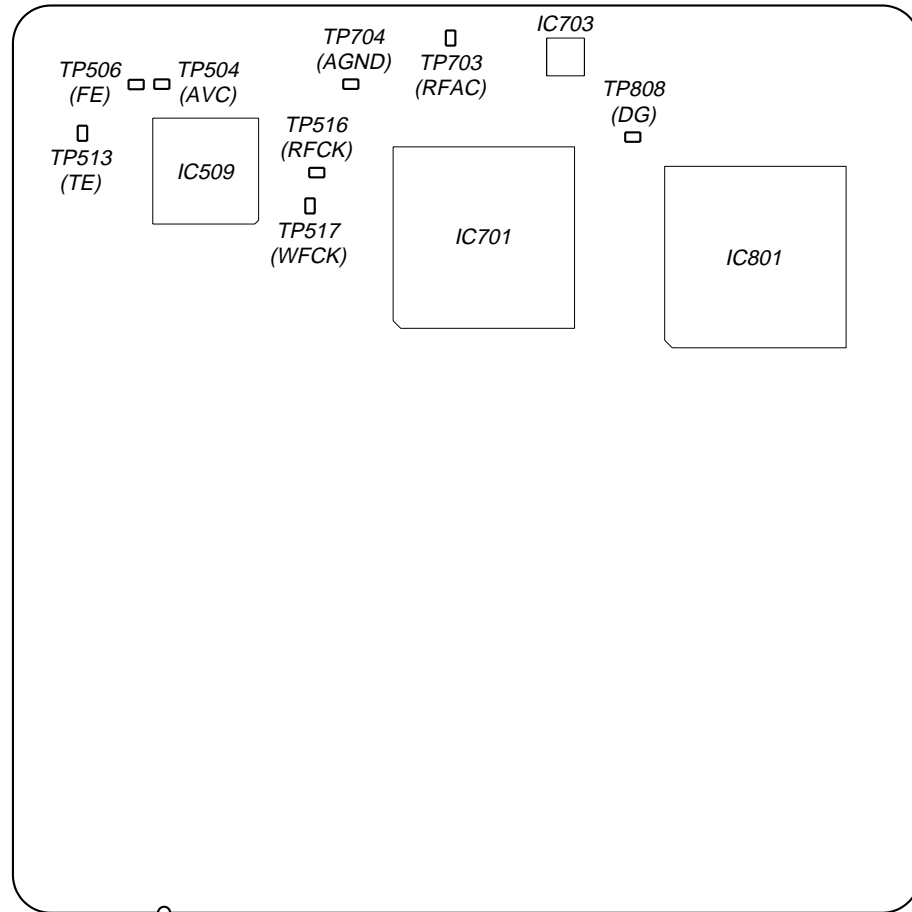
CLV jitter waveform



Checking and Connecting Location : See page 25.

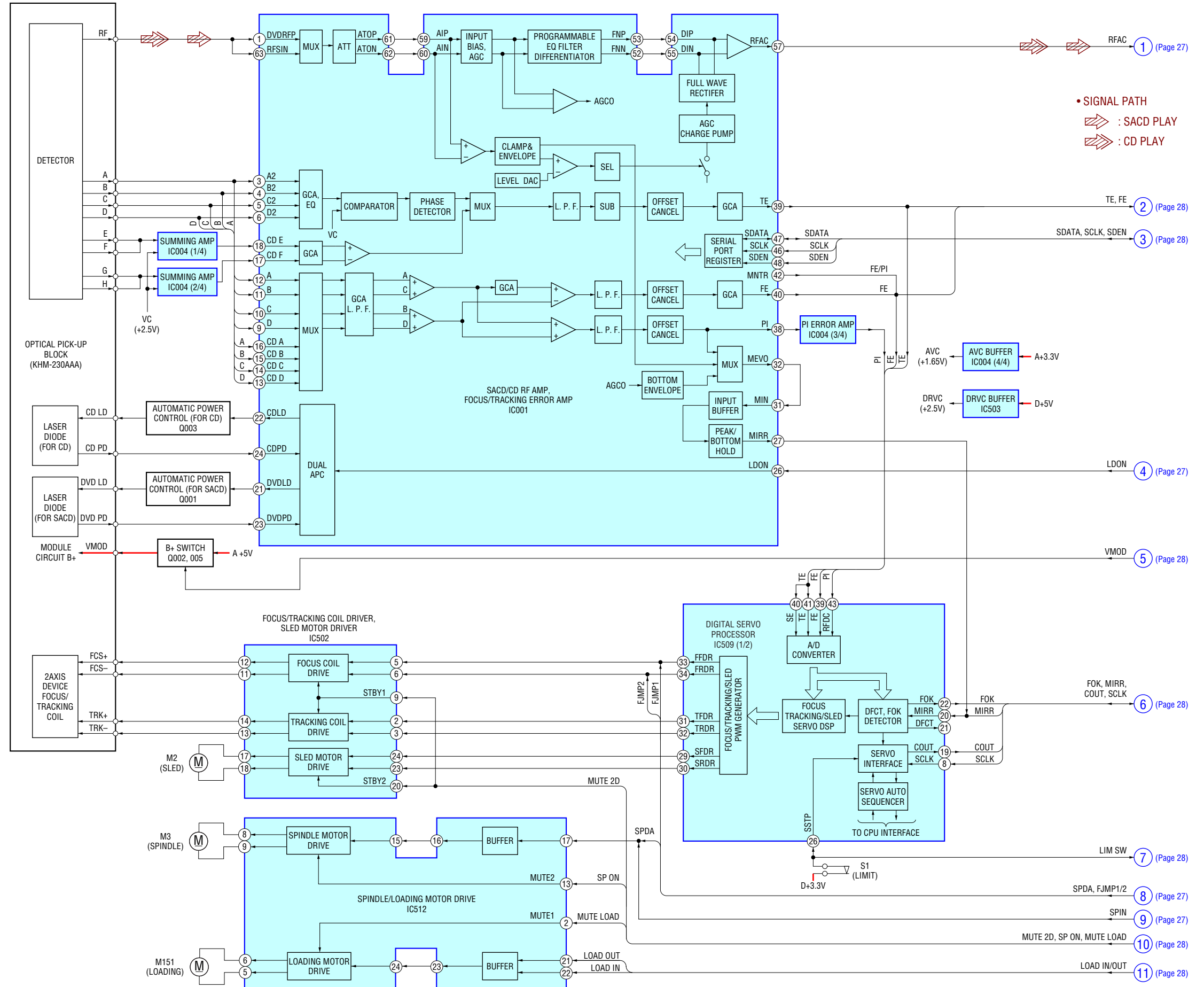
Checking and Connecting Location:

– MAIN Board (Component Side) –

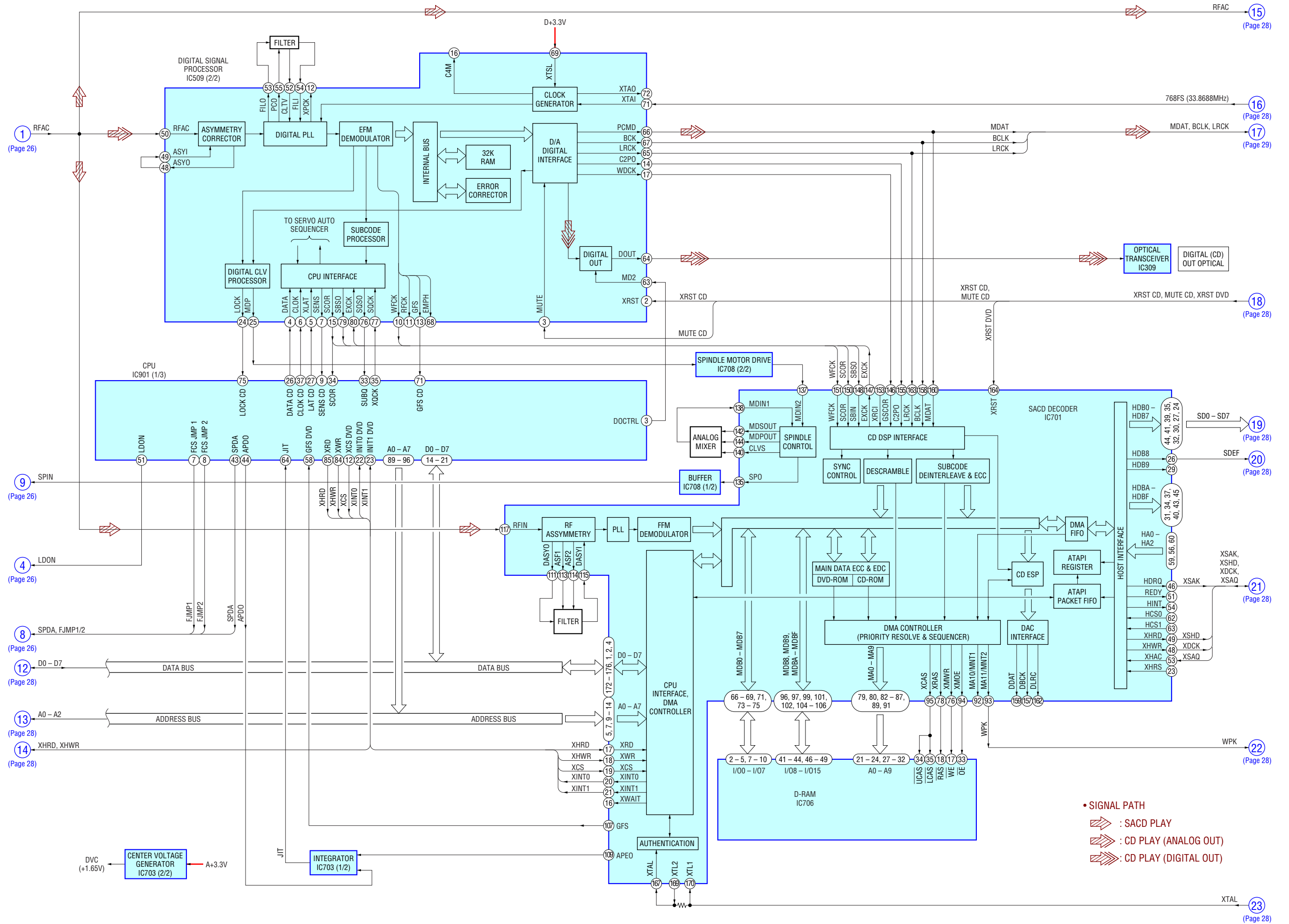


SECTION 5
DIAGRAMS

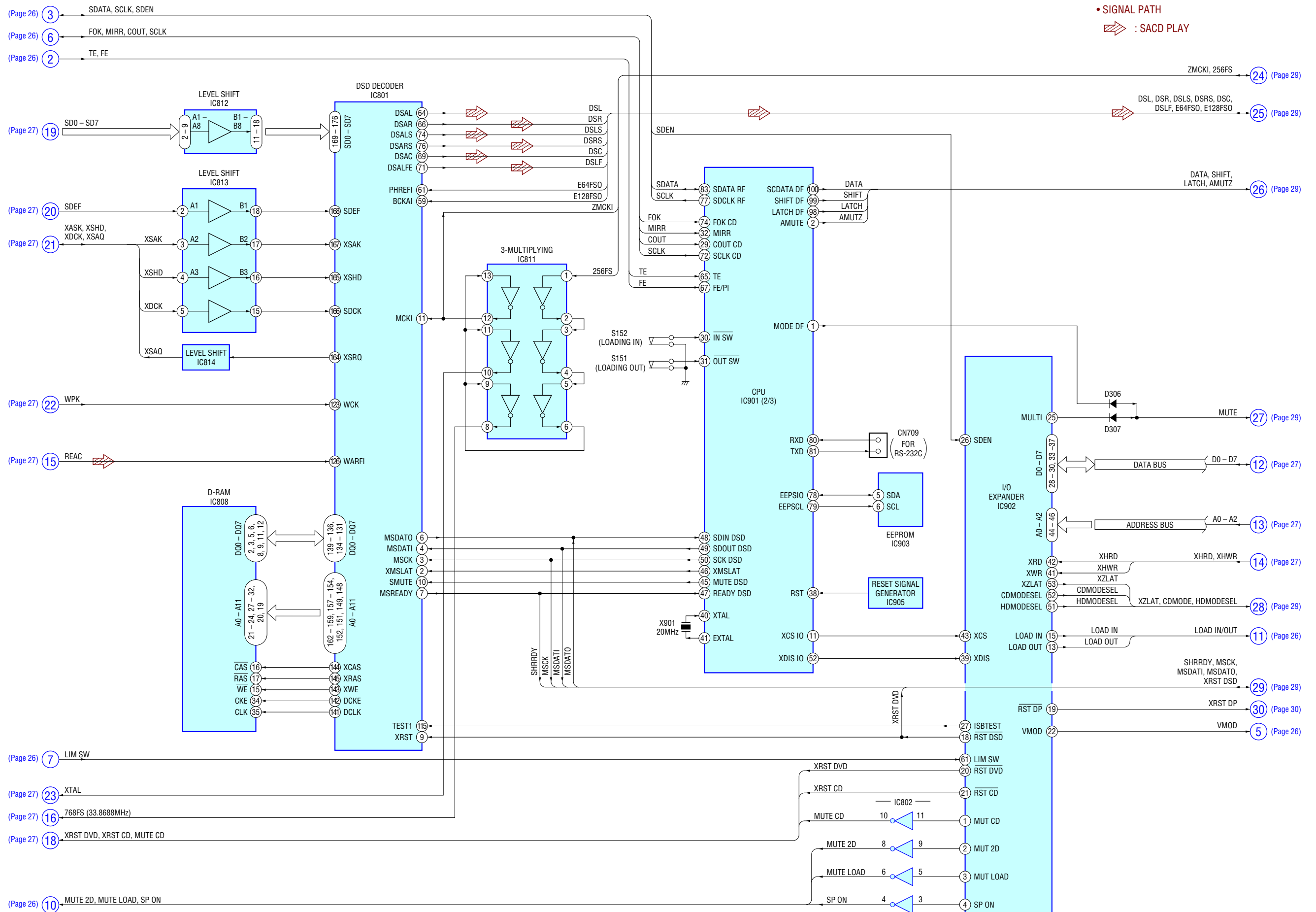
5-1. BLOCK DIAGRAM – RF/SERVO Section –



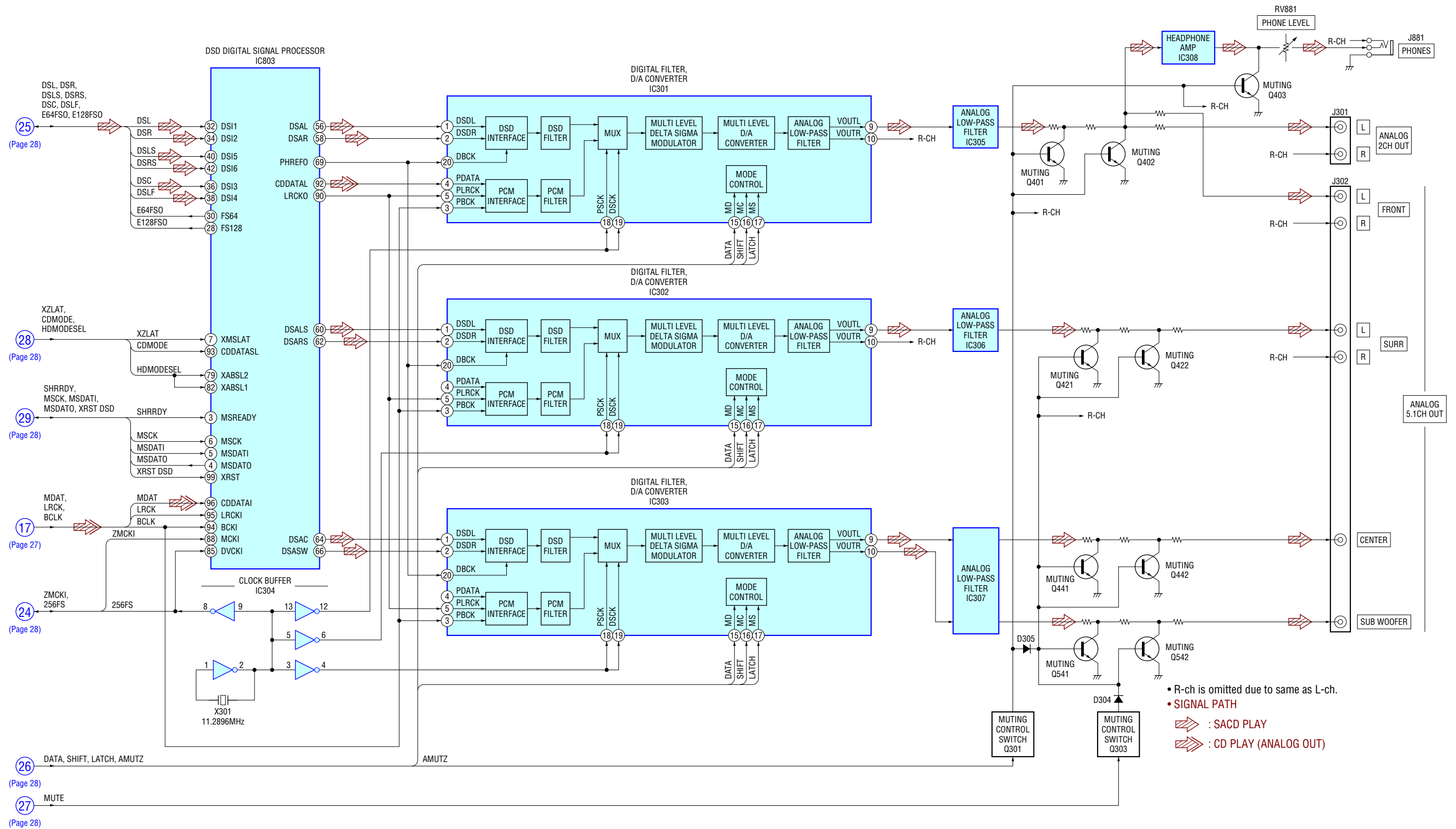
5-2. BLOCK DIAGRAM – SERVO Section –



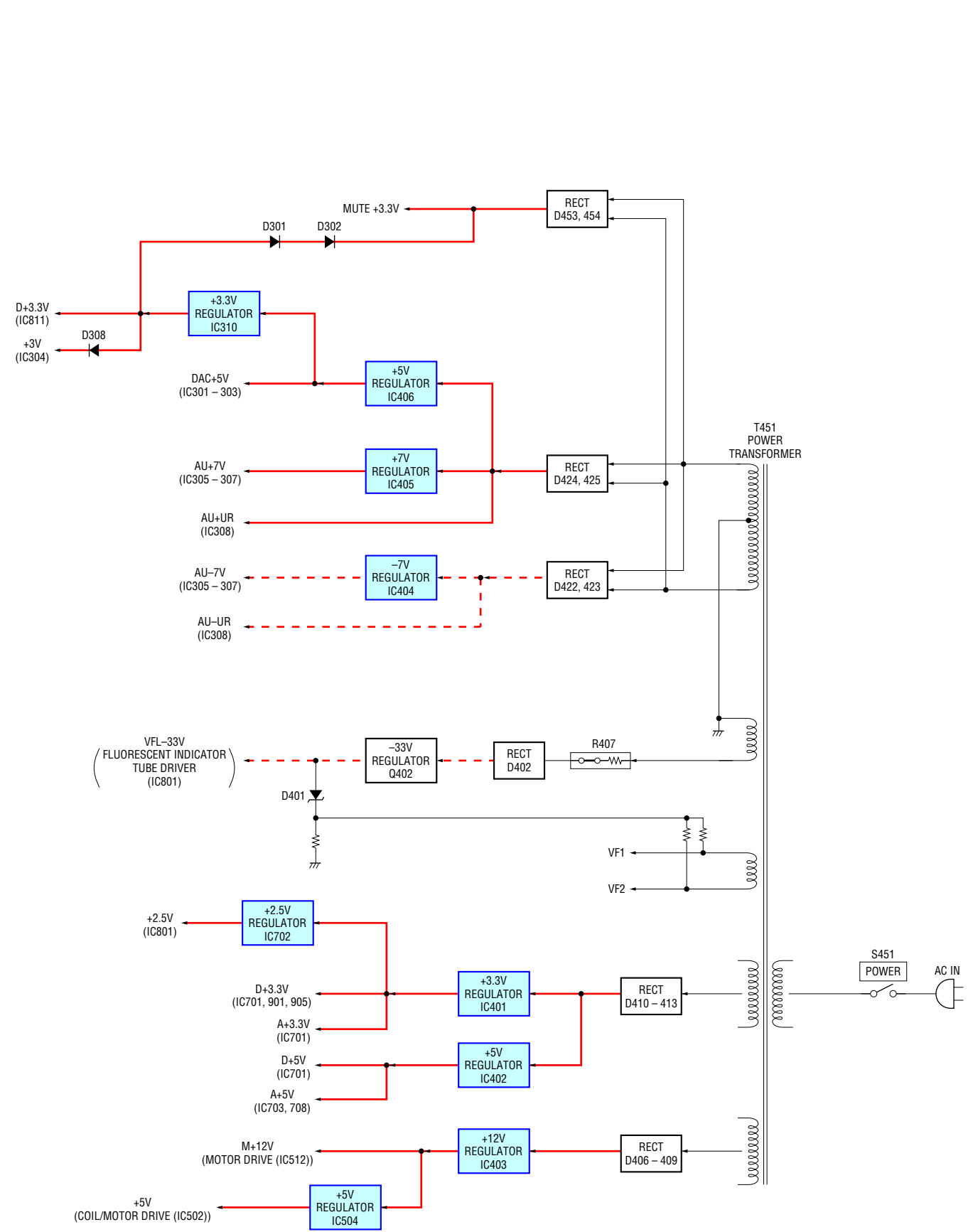
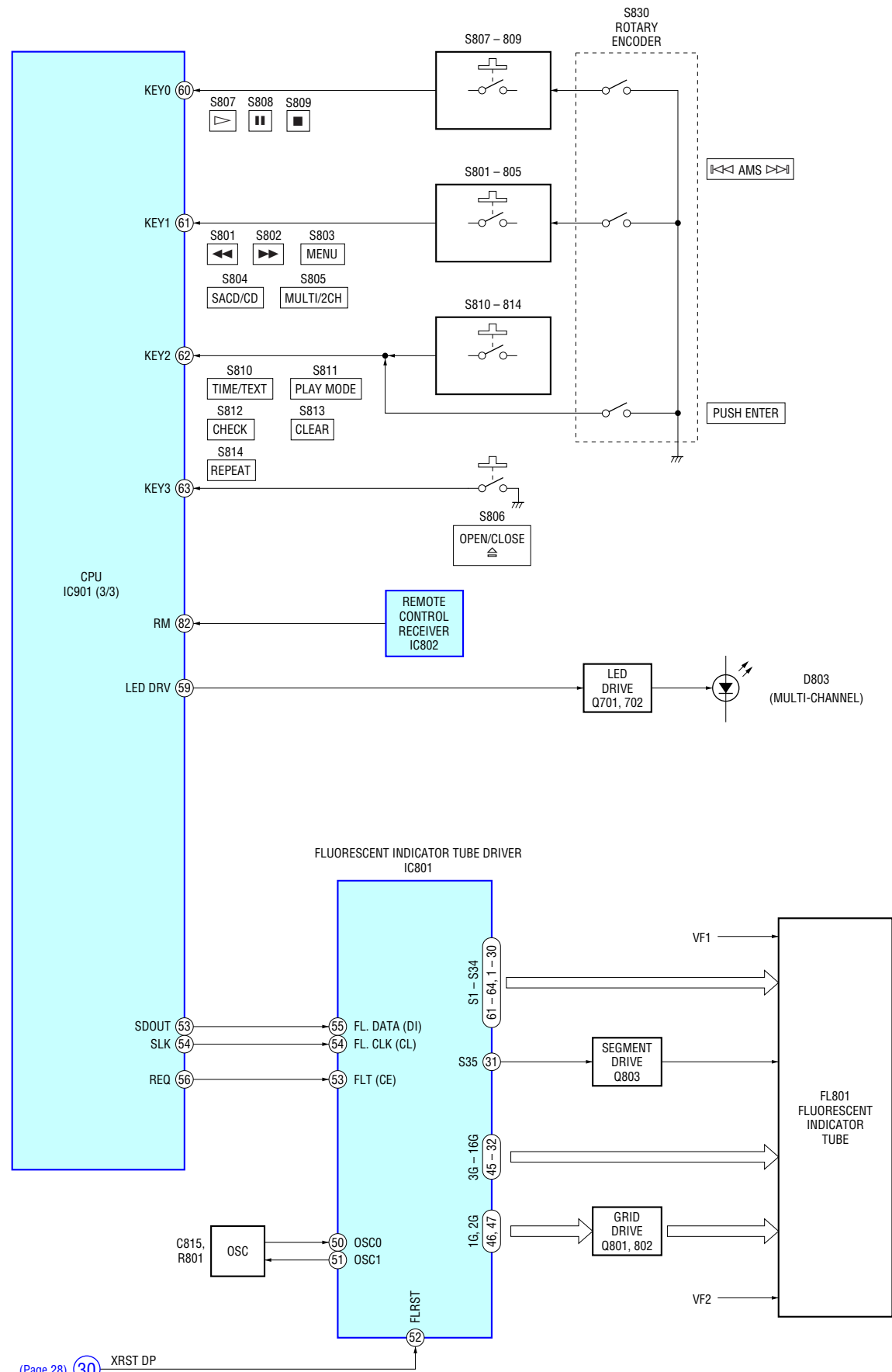
5-3. BLOCK DIAGRAM – MAIN Section –



5-4. BLOCK DIAGRAM – AUDIO Section –



5-5. BLOCK DIAGRAM – DISPLAY/KEY CONTROL/POWER SUPPLY Section –



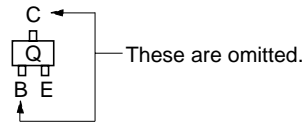
5-6. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

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



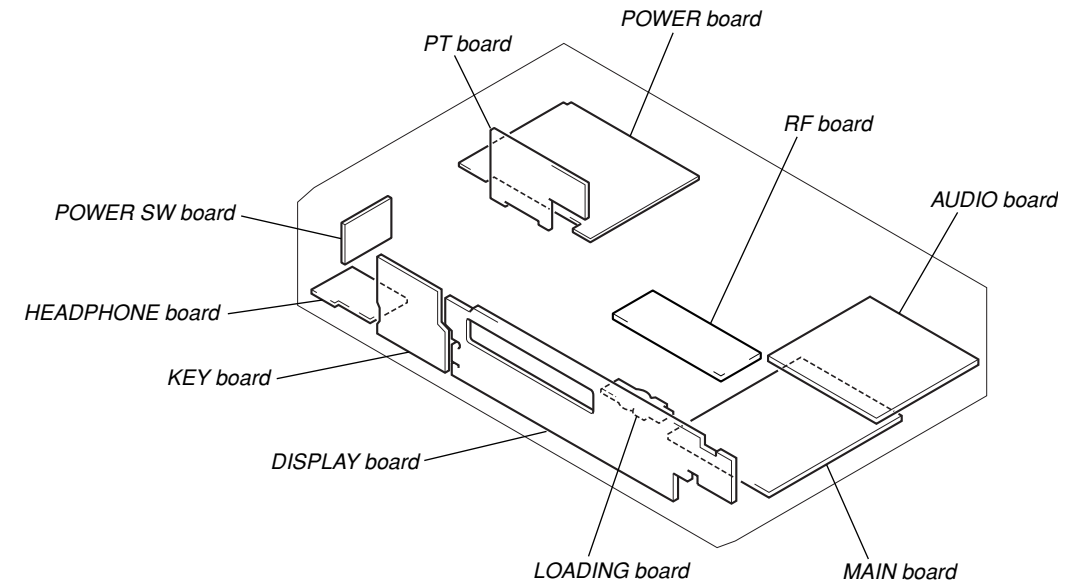
Note on Schematic Diagram:

- 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.
- $\text{---}\text{---}\text{---}$: fusible resistor.
- $\text{---}\text{---}\text{---}$: panel designation.

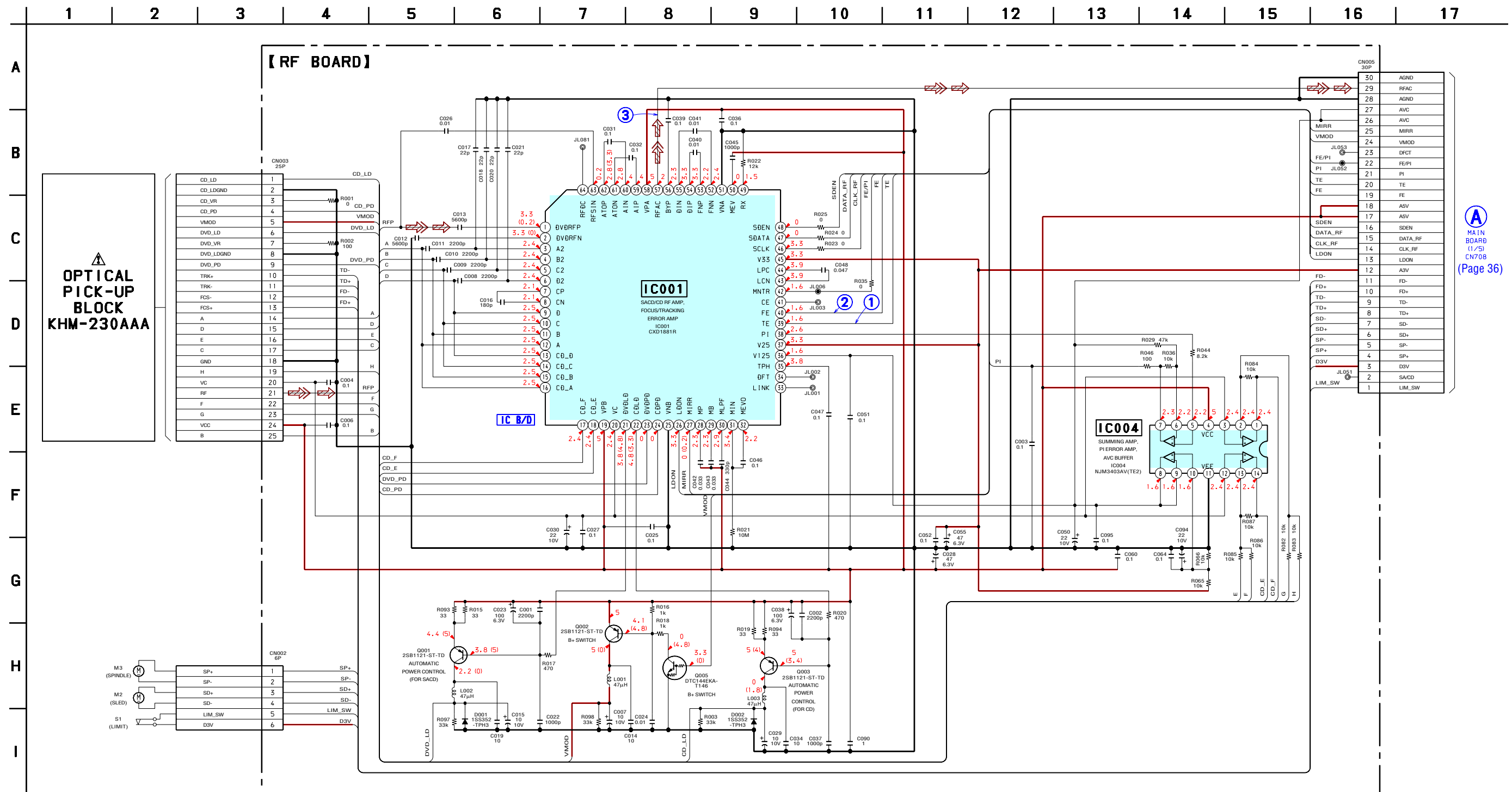
| | |
|---|---|
| <p>Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.</p> | <p>Note: Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.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

- $\text{---}\text{---}\text{---}$: B+ Line.
- $\text{---}\text{---}\text{---}$: B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
 no mark : SACD PLAY
 () : CD PLAY
 * : Impossible to measure
- 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.
 $\text{---}\text{---}\text{---}$: SACD PLAY
 $\text{---}\text{---}\text{---}$: CD PLAY (ANALOG OUT)
 $\text{---}\text{---}\text{---}$: CD PLAY (DIGITAL OUT)
- Abbreviation
 CND : Canadian model

• Circuit Boards Location



5-7. SCHEMATIC DIAGRAM – RF Board – • See page 48 for Waveforms. • See page 51 for IC Block Diagram.

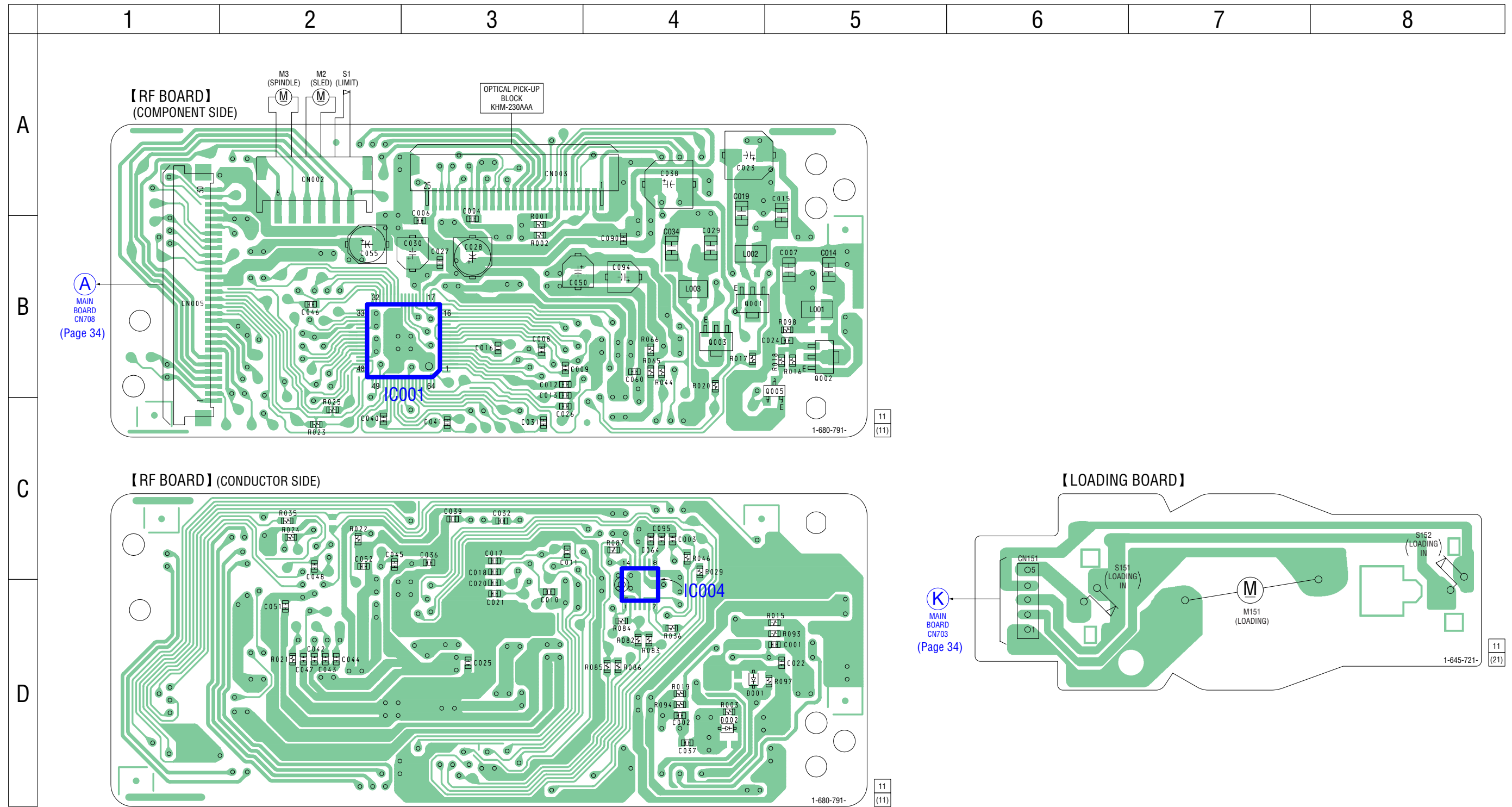


MAIN BOARD (1/5) CN708 (Page 36)

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.

5-8. PRINTED WIRING BOARDS – RF/LOADING Boards – • See page 31 for Circuit Boards Location.

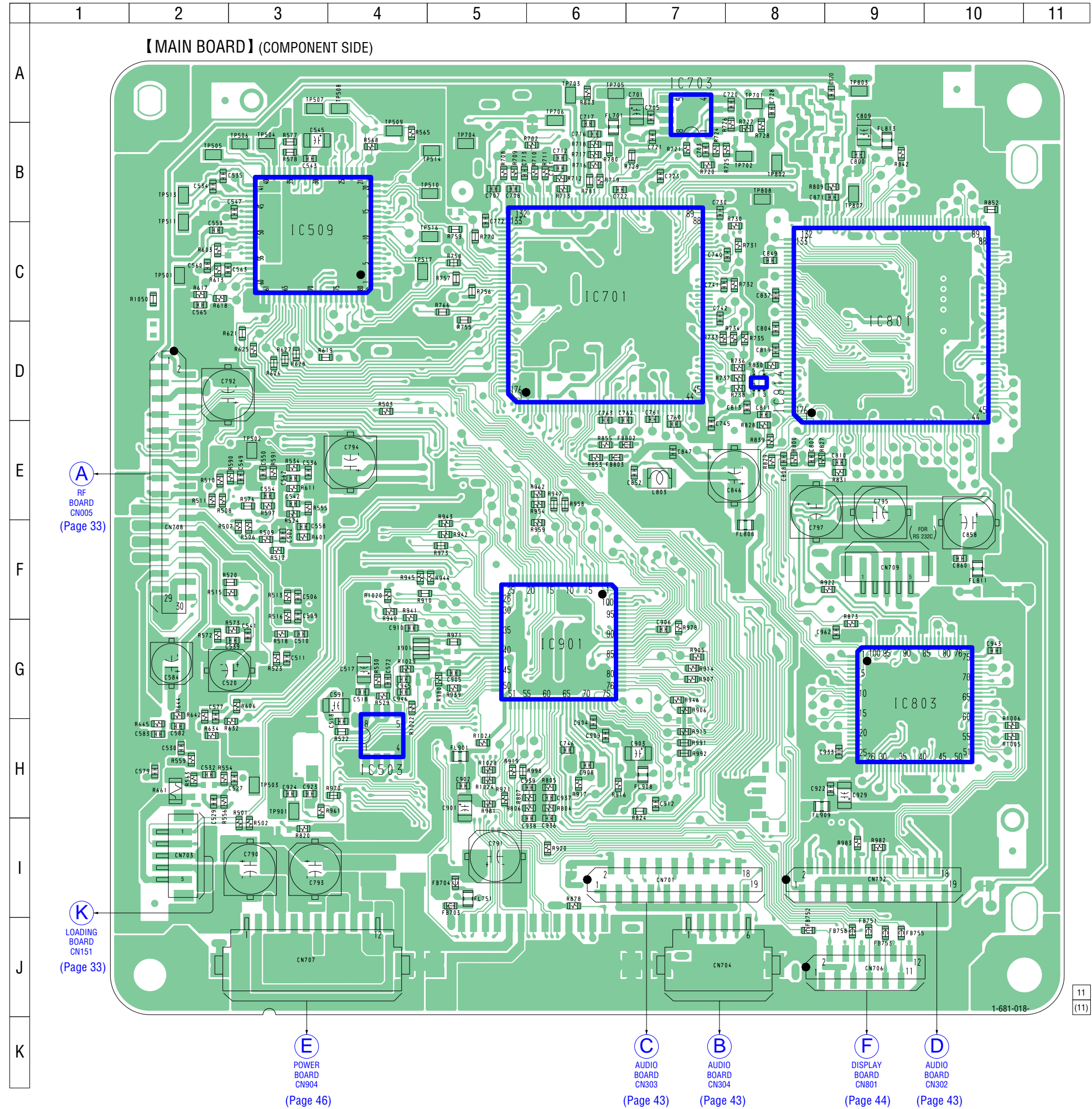


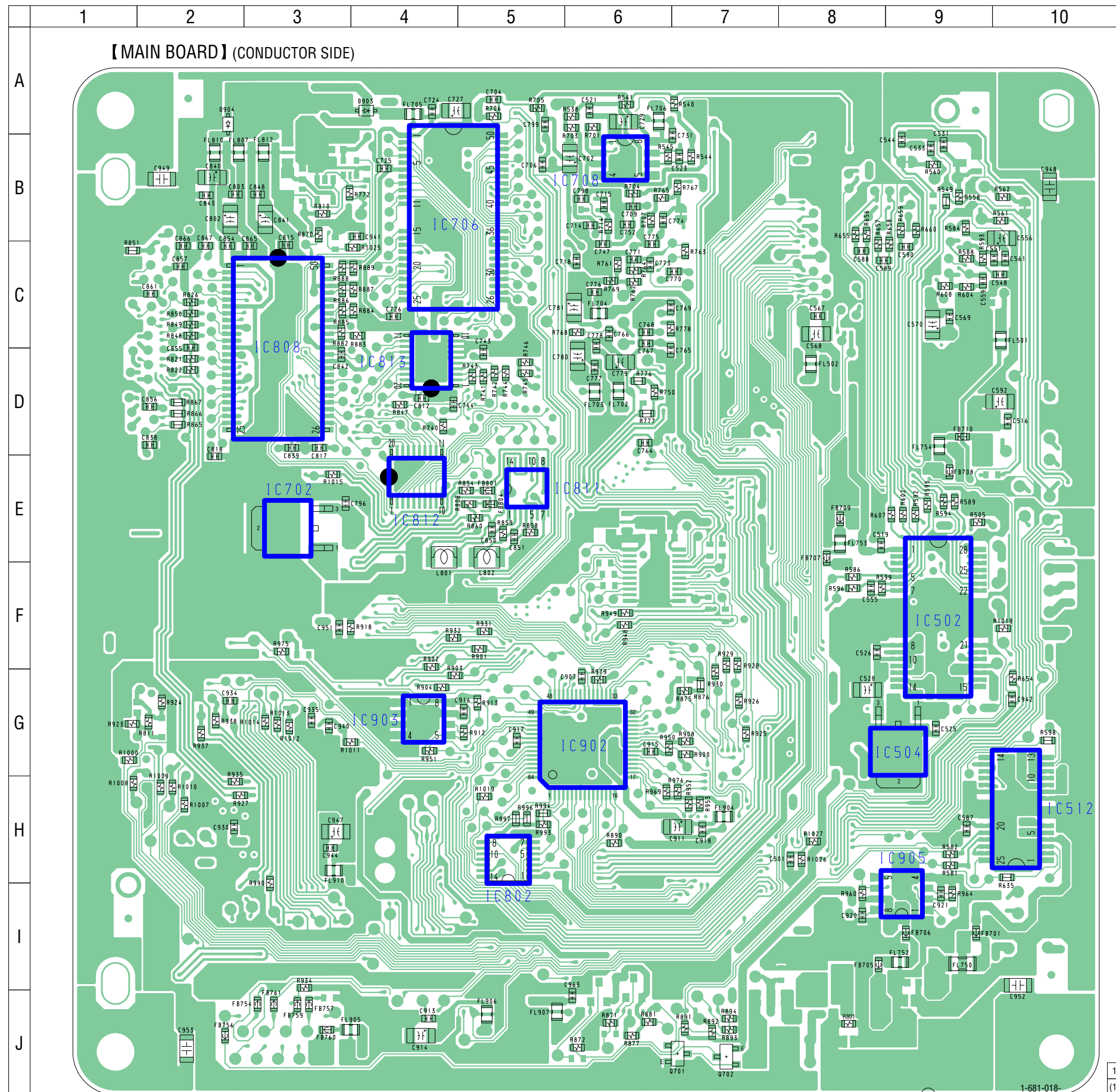
• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D001 | D-4 |
| D002 | D-4 |
| IC001 | B-3 |
| IC004 | D-4 |
| Q001 | B-4 |
| Q002 | B-5 |
| Q003 | B-4 |
| Q005 | B-5 |

• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| IC503 | H-4 |
| IC509 | C-3 |
| IC701 | C-6 |
| IC703 | A-7 |
| IC801 | C-9 |
| IC803 | G-9 |
| IC814 | D-8 |
| IC901 | G-6 |



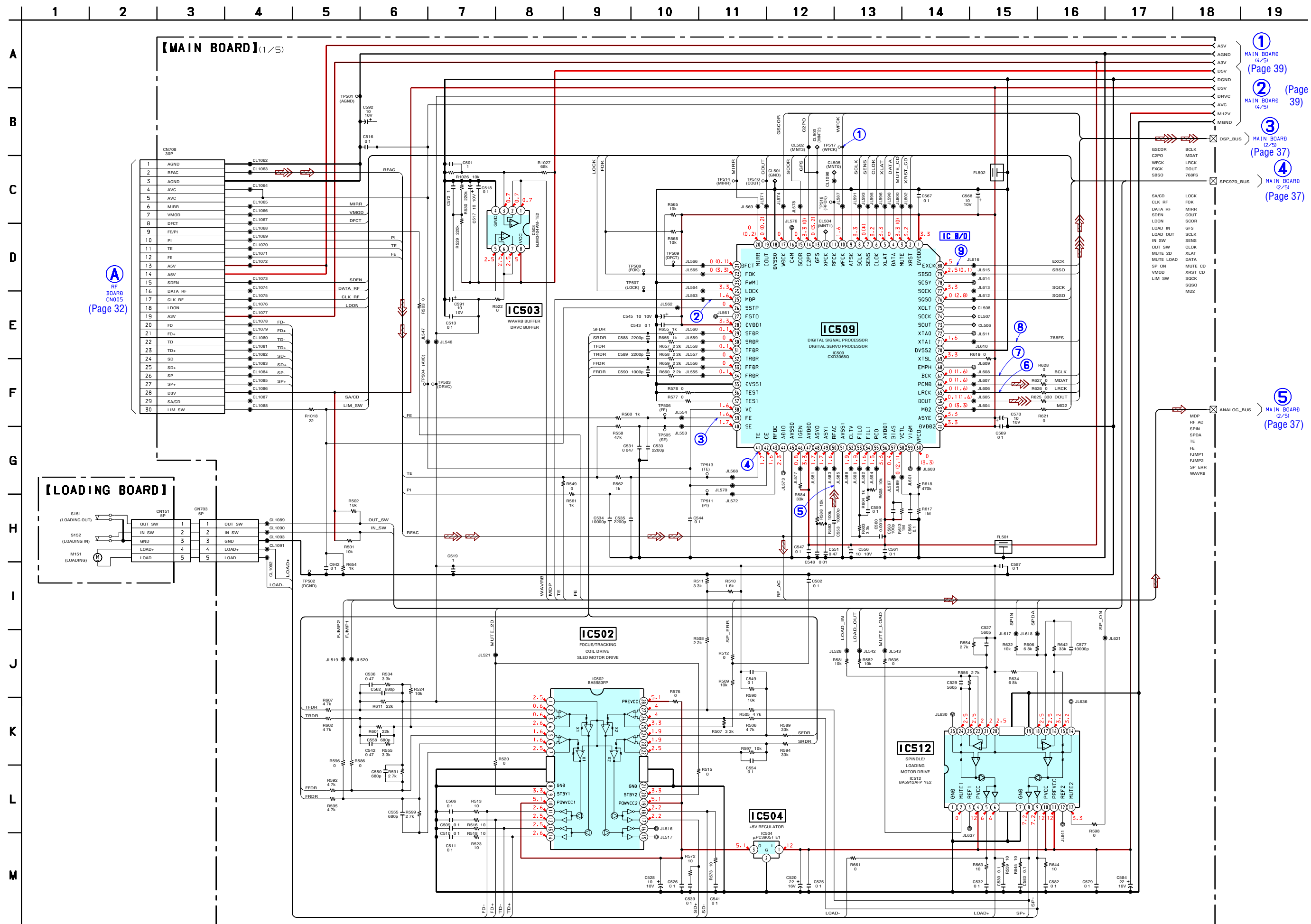


• Semiconductor Location

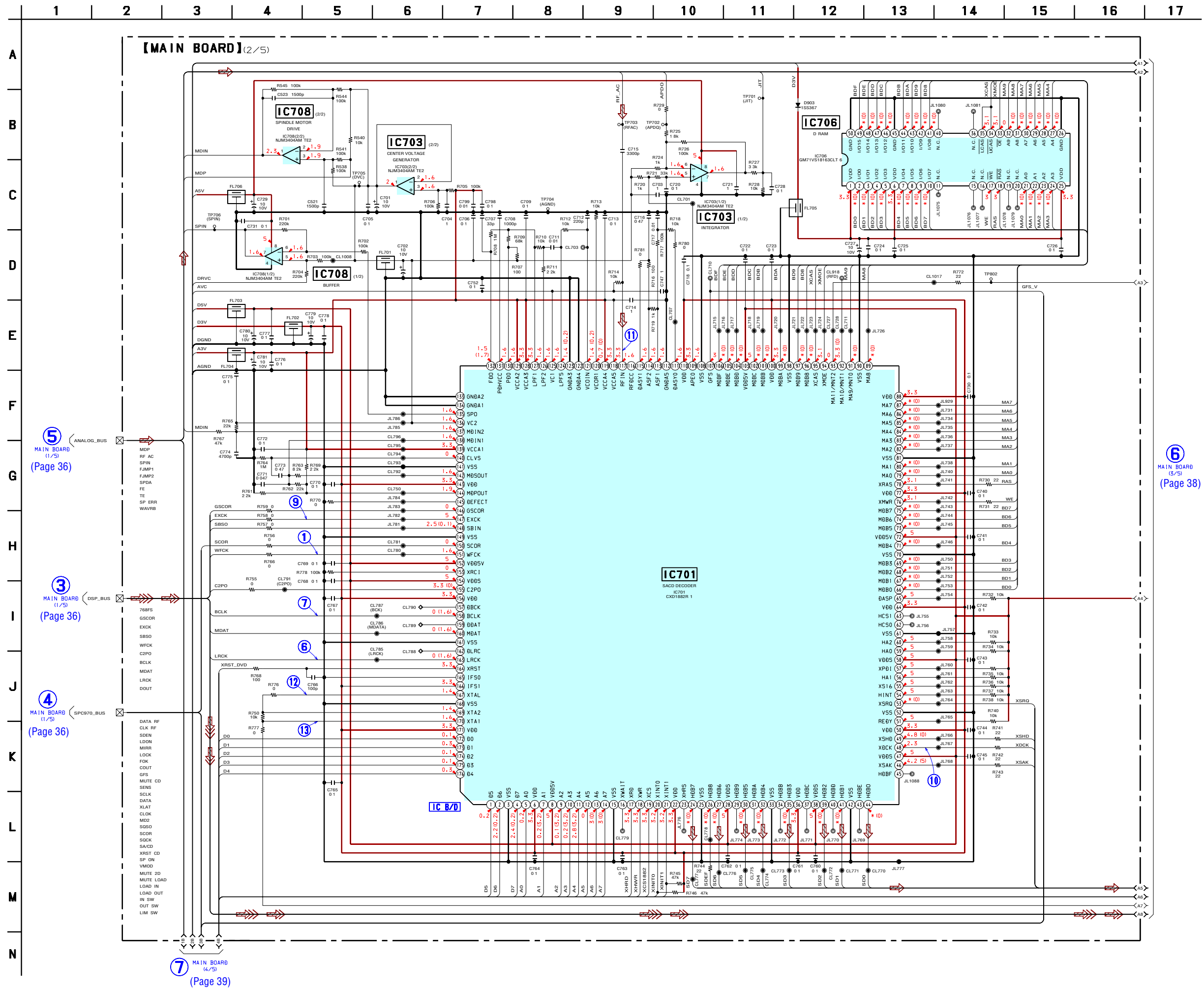
| Ref. No. | Location |
|----------|----------|
| D903 | A-4 |
| D904 | A-2 |
| IC502 | F-9 |
| IC504 | G-9 |
| IC512 | H-10 |
| IC702 | E-3 |
| IC706 | B-4 |
| IC708 | B-6 |
| IC802 | H-5 |
| IC808 | C-3 |
| IC811 | E-5 |
| IC812 | E-4 |
| IC902 | G-6 |
| IC903 | G-4 |
| IC905 | I-9 |
| Q701 | J-7 |
| Q702 | J-7 |

11
(11)

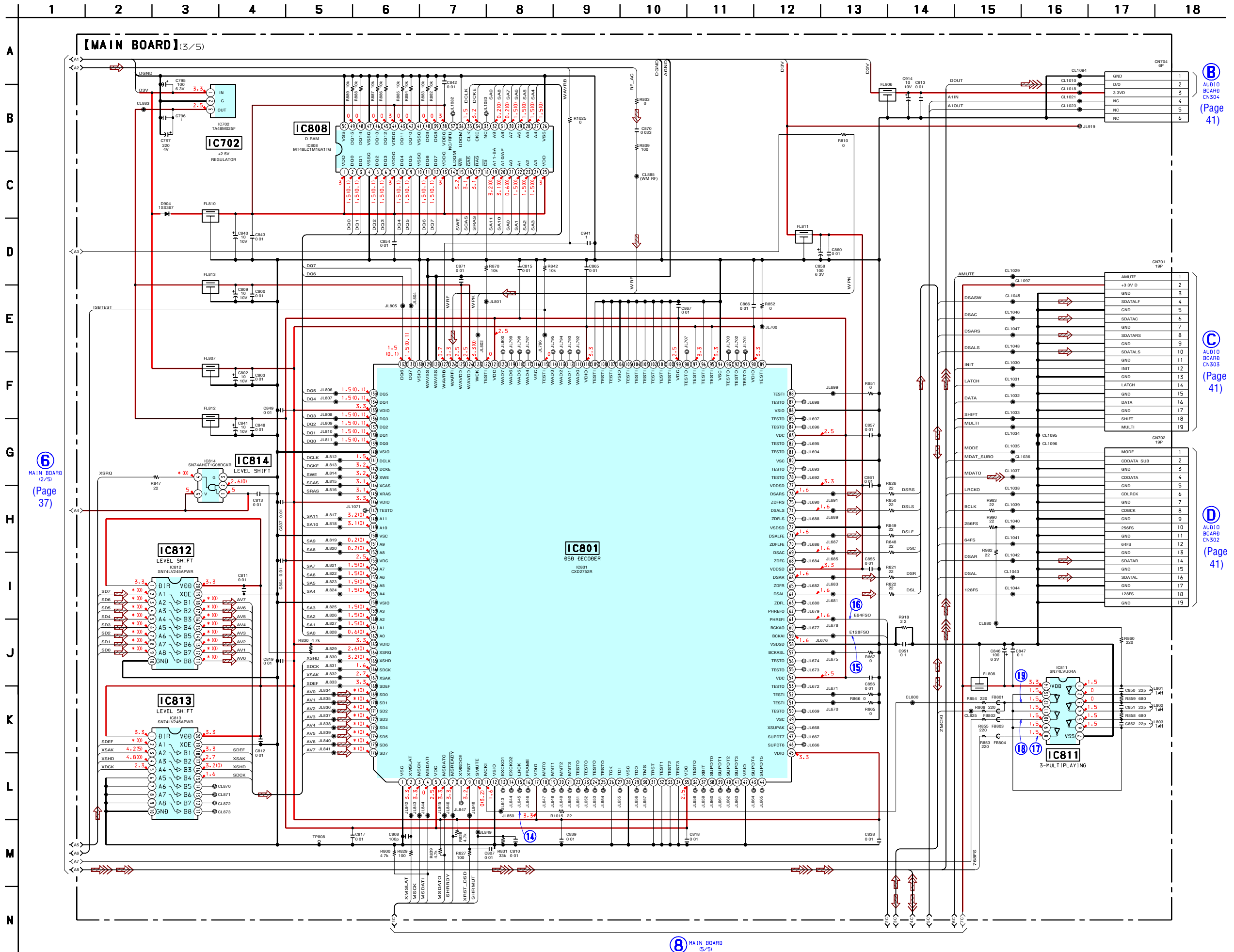
5-11. SCHEMATIC DIAGRAM – MAIN (1/5)/LOADING Boards – • See page 48 for Waveforms. • See page 51 for IC Block Diagram.



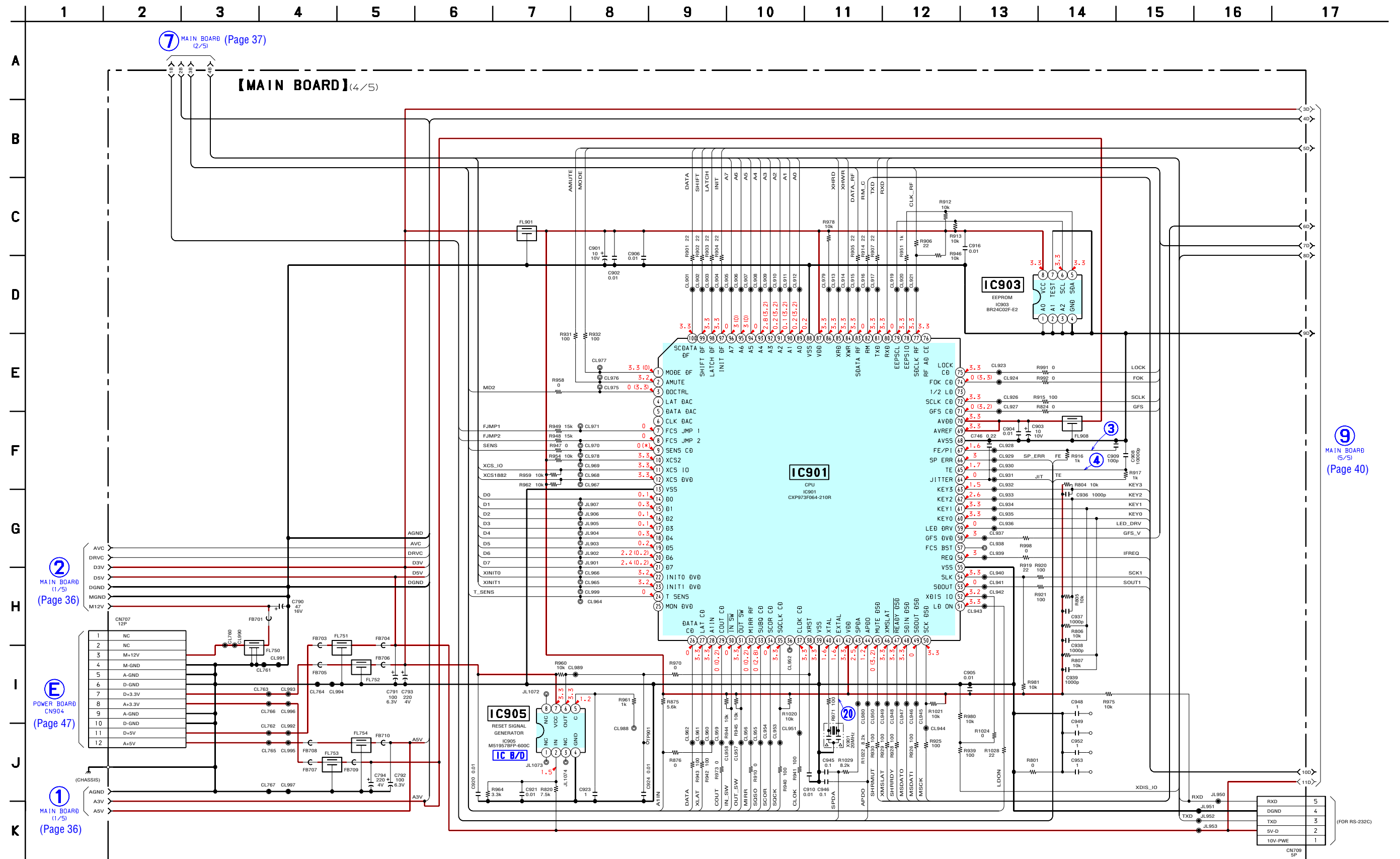
5-12. SCHEMATIC DIAGRAM – MAIN Board (2/5) – • See page 48 for Waveforms. • See page 51 for IC Block Diagram.



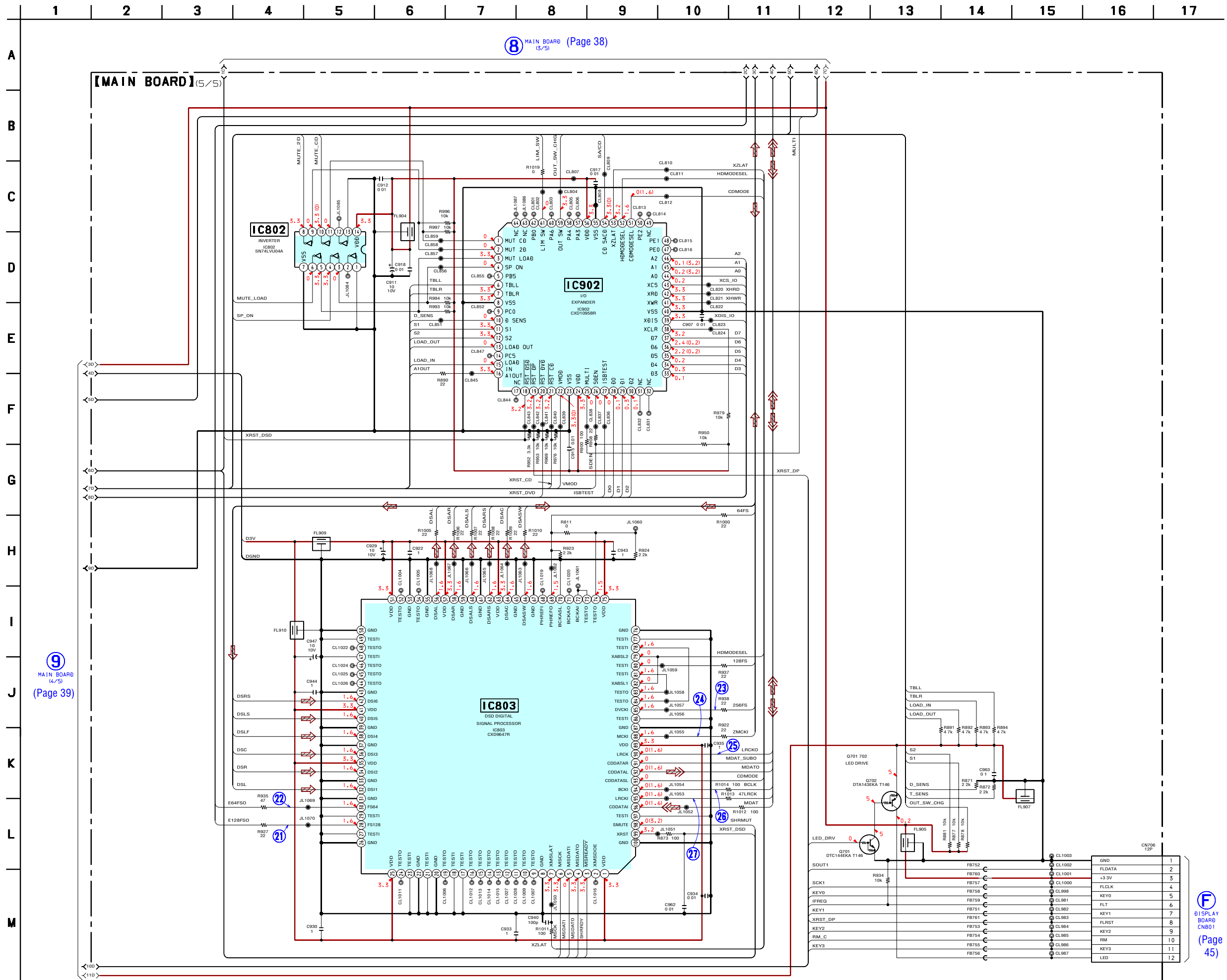
5-13. SCHEMATIC DIAGRAM – MAIN Board (3/5) – • See page 48 for Waveforms.



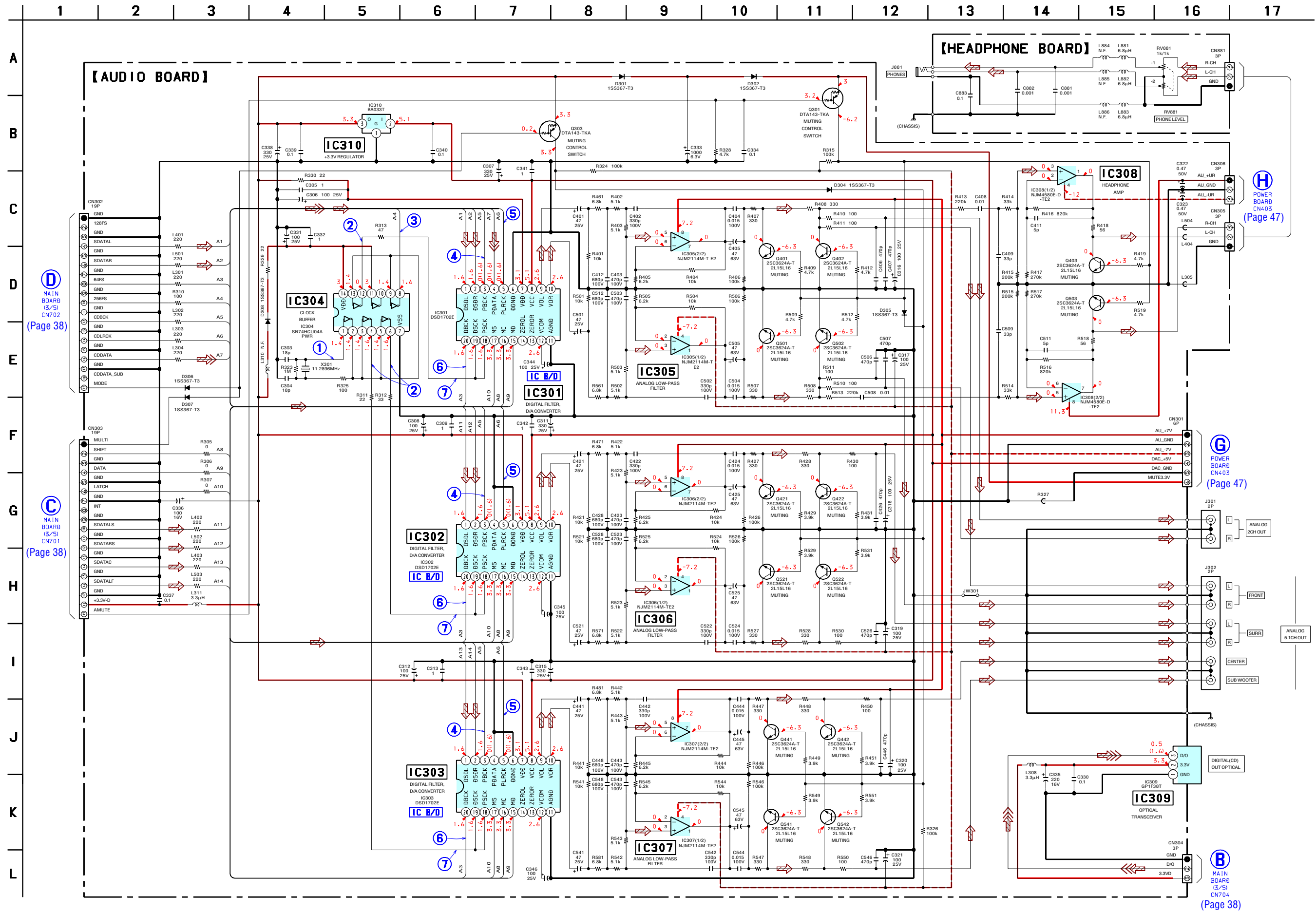
5-14. SCHEMATIC DIAGRAM – MAIN Board (4/5) – • See page 48 for Waveforms. • See page 51 for IC Block Diagram.



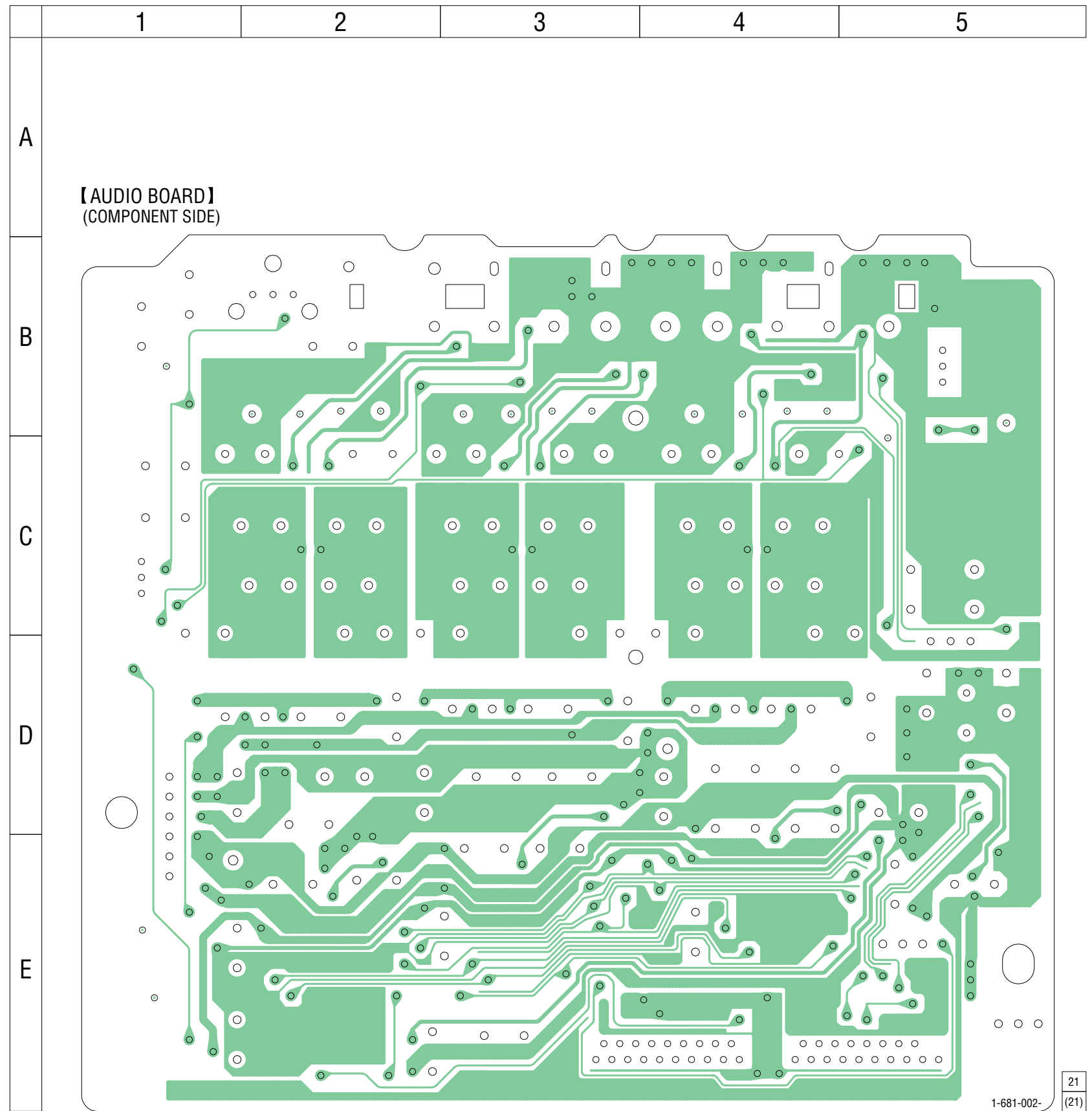
5-15. SCHEMATIC DIAGRAM – MAIN Board (5/5) – • See page 48 for Waveforms.



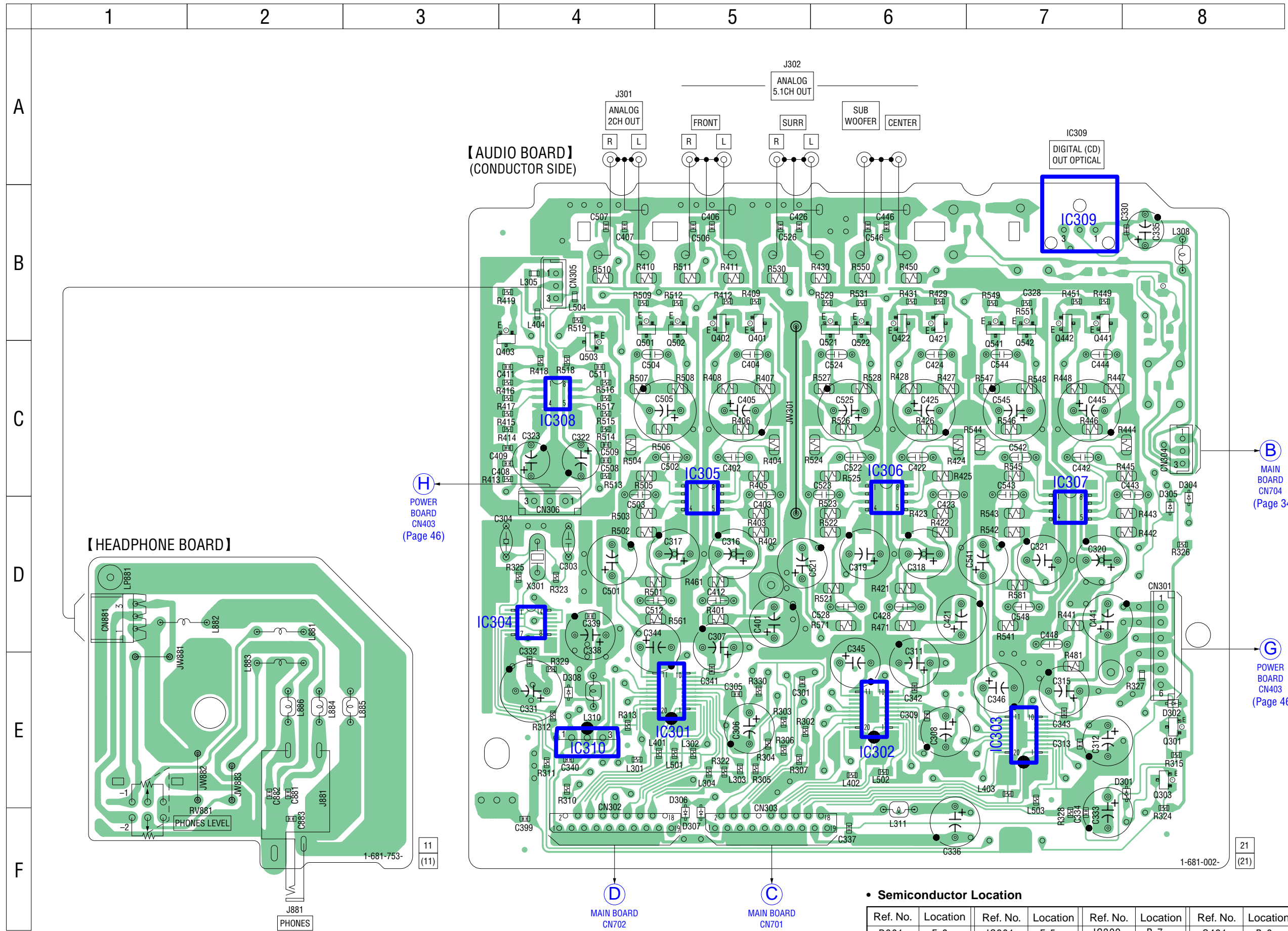
5-16. SCHEMATIC DIAGRAM – AUDIO/HEADPHONE Boards – • See page 48 for Waveforms. • See page 51 for IC Block Diagram.



5-17. PRINTED WIRING BOARD – AUDIO Board (Component Side) – • See page 31 for Circuit Boards Location.



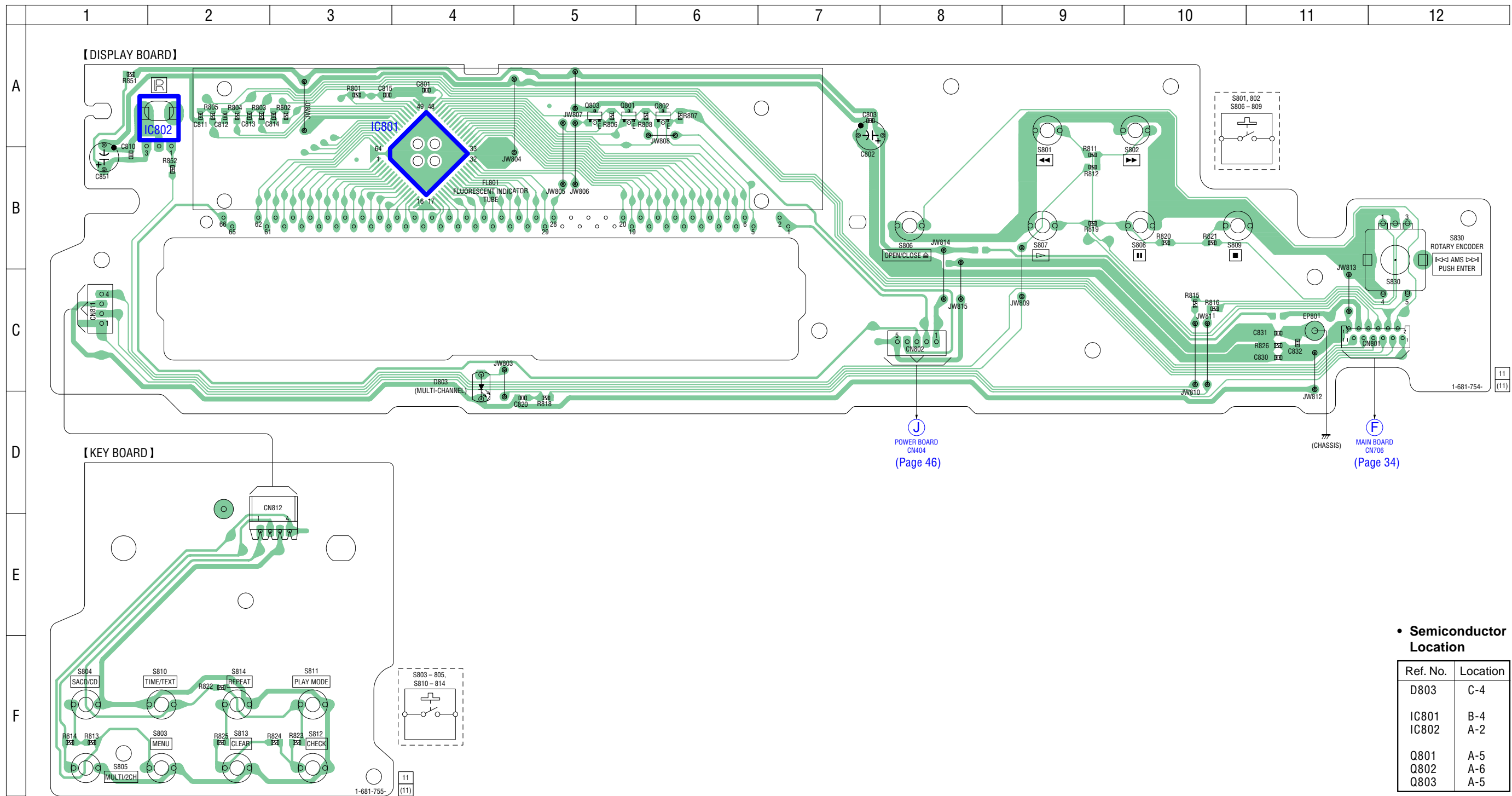
5-18. PRINTED WIRING BOARDS – AUDIO (Conductor Side)/HEADPHONE Boards – • See page 31 for Circuit Boards Location.



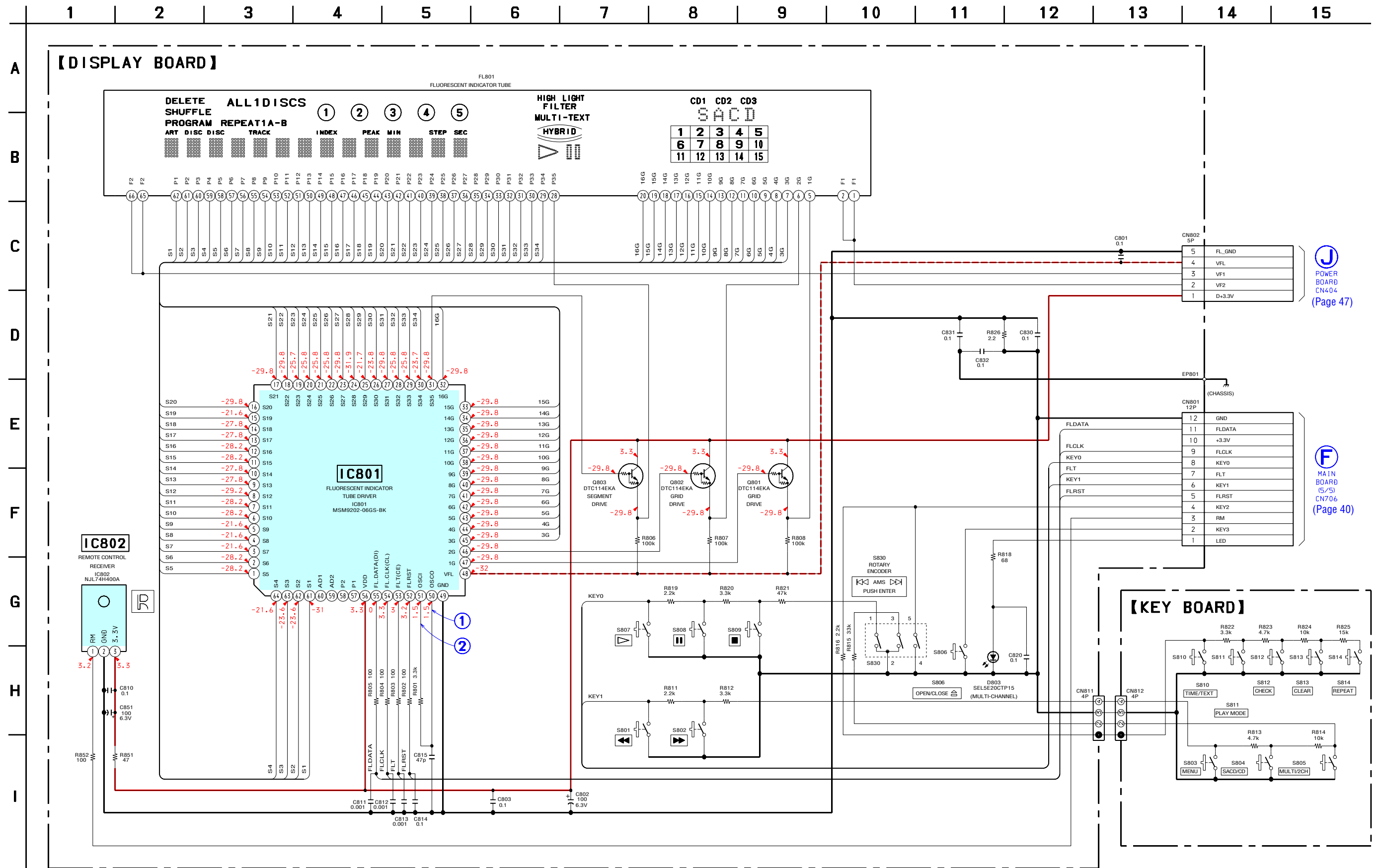
• Semiconductor Location

| Ref. No. | Location | Ref. No. | Location | Ref. No. | Location | Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| D301 | E-8 | IC301 | E-5 | IC309 | B-7 | Q421 | B-6 | Q521 | B-6 |
| D302 | E-8 | IC302 | E-6 | IC310 | E-4 | Q422 | B-6 | Q541 | B-7 |
| D304 | D-8 | IC303 | E-7 | Q401 | E-8 | Q441 | B-7 | Q542 | B-7 |
| D305 | D-8 | IC304 | D-4 | Q402 | B-5 | Q442 | B-7 | | |
| D306 | F-5 | IC305 | C-5 | Q403 | B-4 | Q501 | B-4 | | |
| D307 | F-5 | IC306 | C-6 | | | Q502 | B-5 | | |
| D308 | E-4 | IC307 | D-7 | | | Q503 | C-4 | | |
| | | IC308 | C-4 | | | Q521 | B-6 | | |

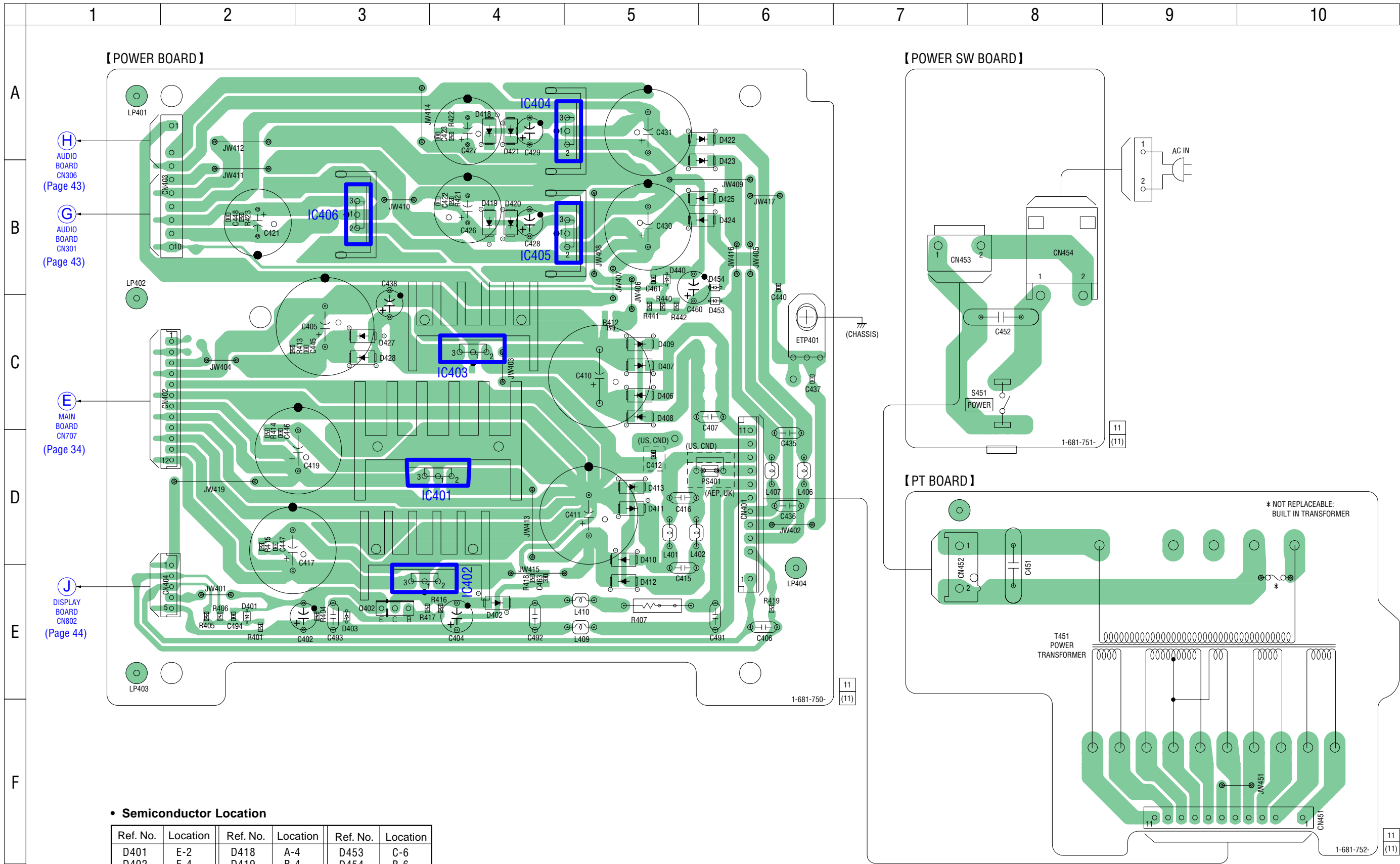
5-19. PRINTED WIRING BOARDS – DISPLAY/KEY Boards – • See page 31 for Circuit Boards Location.



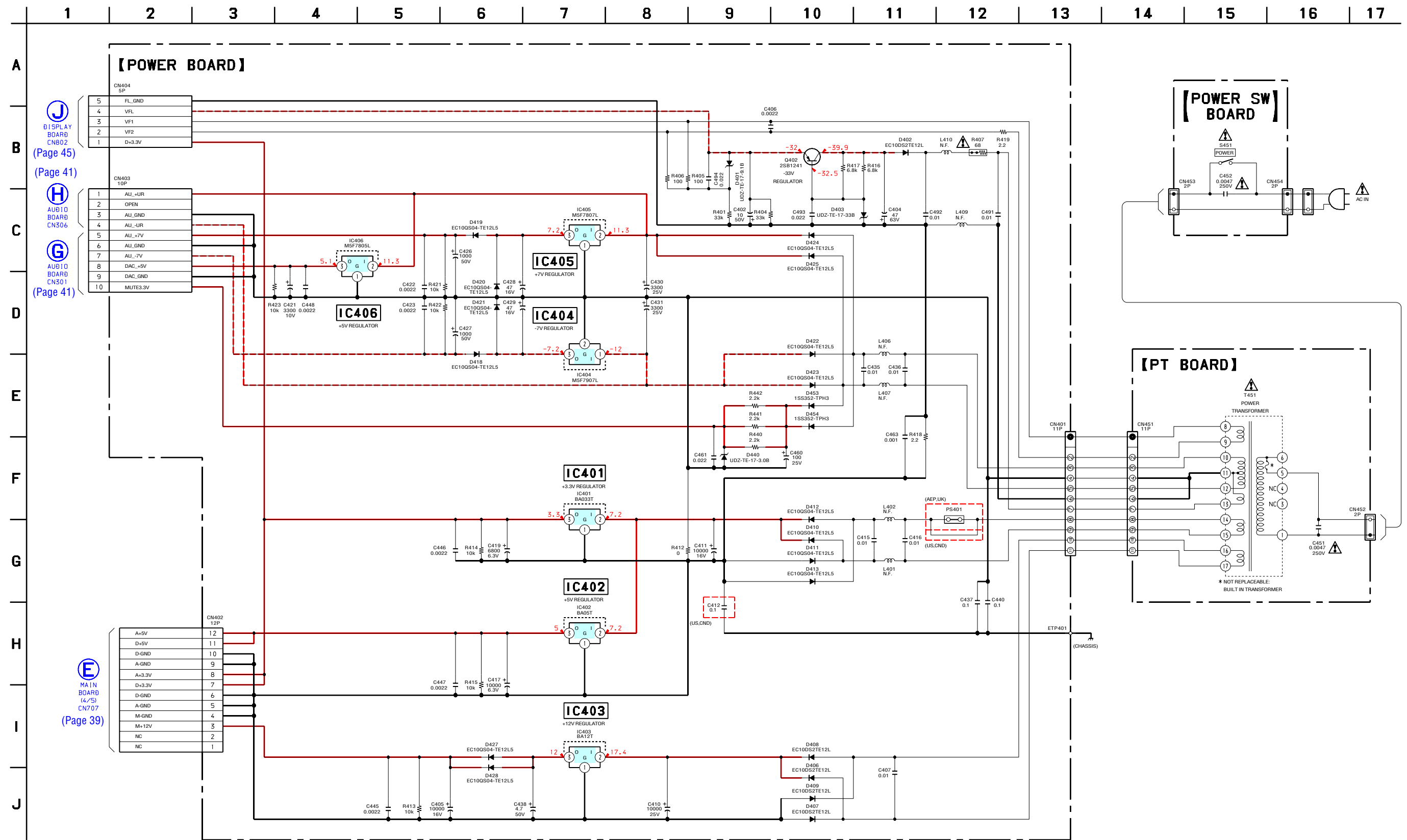
5-20. SCHEMATIC DIAGRAM – DISPLAY/KEY Boards – • See page 48 for Waveforms.



5-21. PRINTED WIRING BOARDS – POWER/POWER SW/PT Boards – • See page 31 for Circuit Boards Location.



5-22. SCHEMATIC DIAGRAM – POWER/POWER SW/PT Boards –

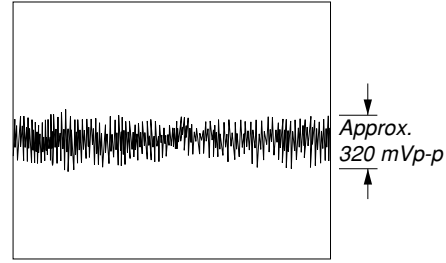


The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

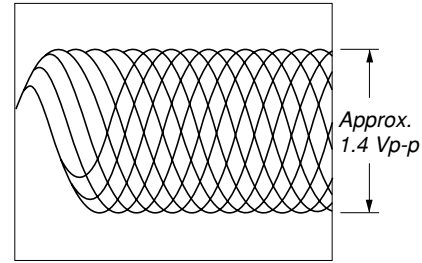
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• Waveforms
– RF Board –

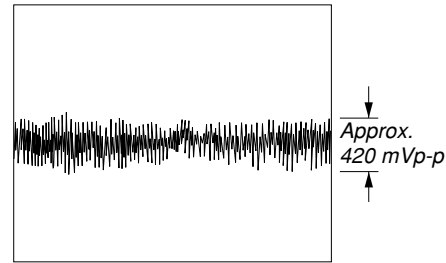
1 IC001 39 (TE) (SACD Play mode)



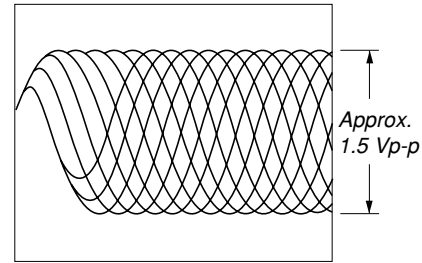
3 IC001 37 (RFAC) (SACD Play mode)



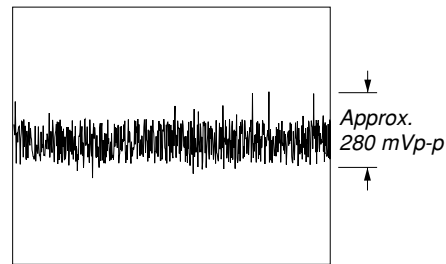
1 IC001 39 (TE) (CD Play mode)



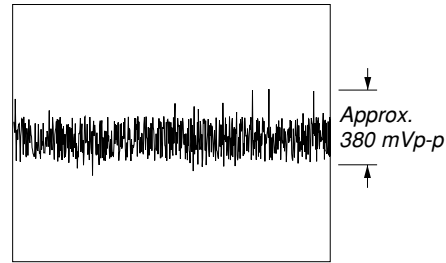
3 IC001 37 (RFAC) (CD Play mode)



2 IC001 40 (FE) (SACD Play mode)

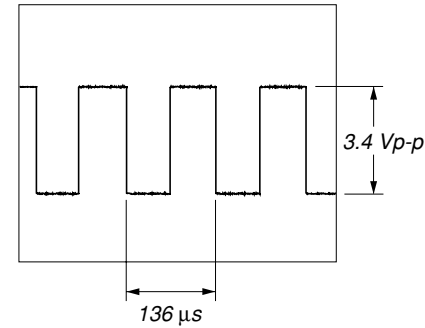


2 IC001 40 (FE) (CD Play mode)

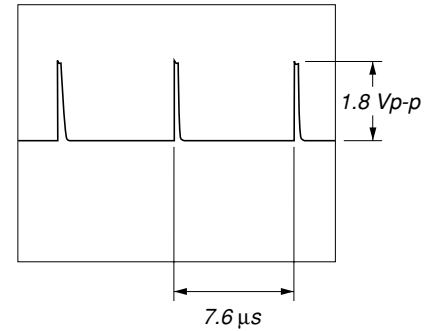


– MAIN Board –

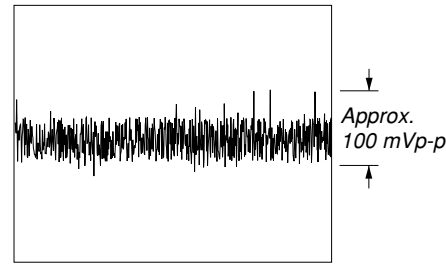
1 IC509 10 (WFCK), IC701 15 (WFCK)



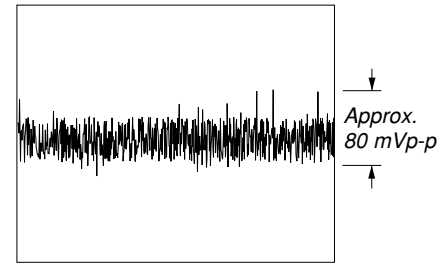
2 IC509 25 (MDP) (CD Play mode)



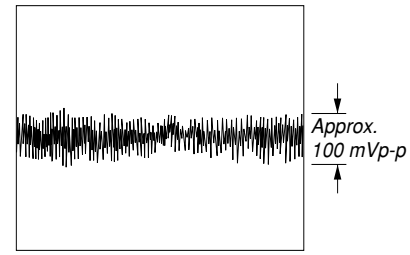
3 IC509 39 (FE), IC901 37 (FE/PI) (SACD Play mode)



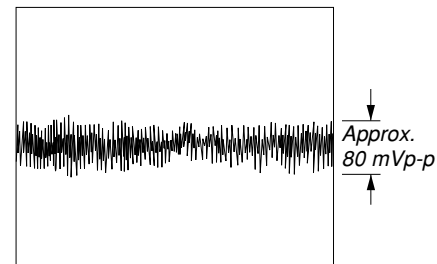
3 IC509 39 (FE), IC901 37 (FE/PI) (CD Play mode)



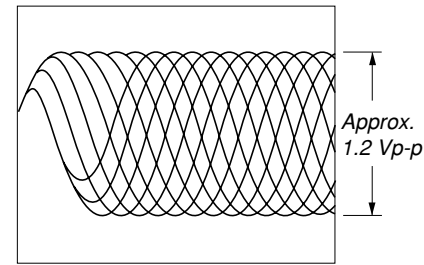
4 IC509 41 (TE), IC901 35 (TE) (SACD Play mode)



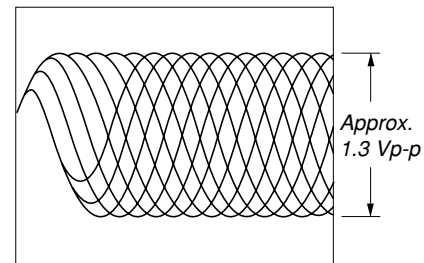
4 IC509 41 (TE), IC901 35 (TE) (CD Play mode)



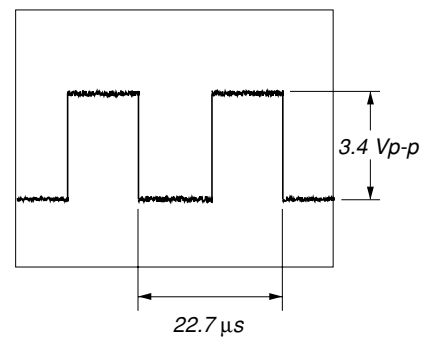
5 IC509 30 (RFAC) (SACD Play mode)



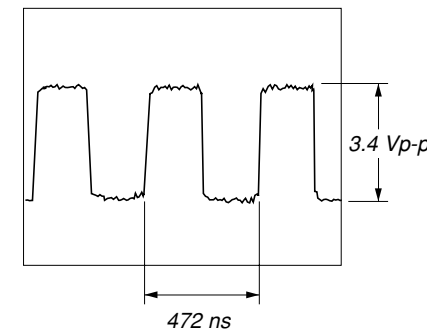
5 IC509 30 (RFAC) (CD Play mode)



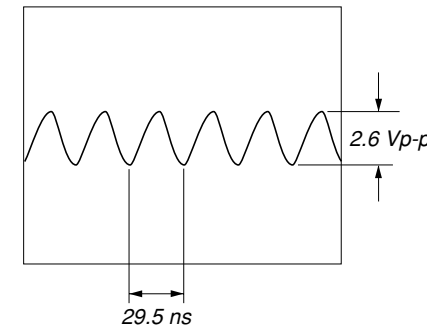
6 IC509 35 (LRCK), IC701 13 (LRCK) (CD Play mode)



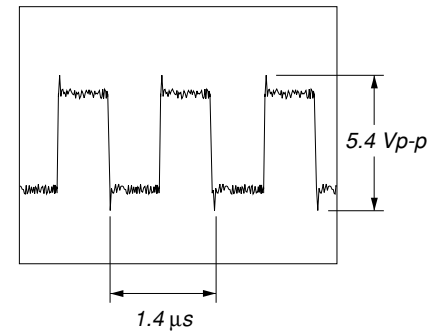
7 IC509 37 (BCK), IC701 13 (BCLK) (CD Play mode)



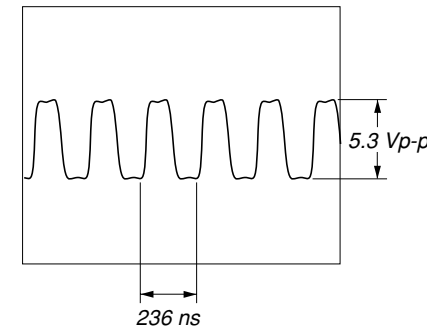
8 IC509 37 (XTAI)



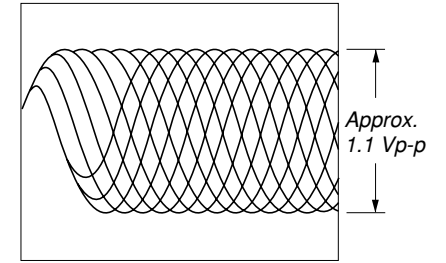
9 IC509 30 (EXCK), IC701 10 (EXCK)



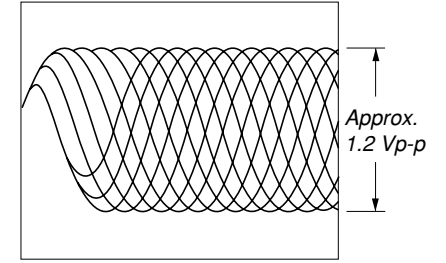
10 IC701 48 (XDCK)



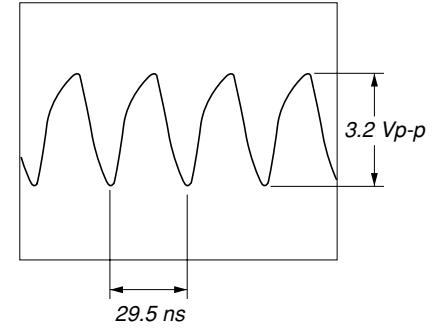
11 IC701 17 (RFIN) (SACD Play mode)



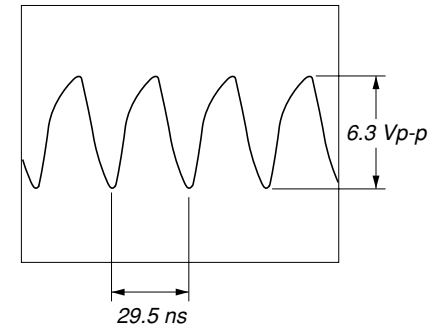
11 IC701 17 (RFIN) (CD Play mode)



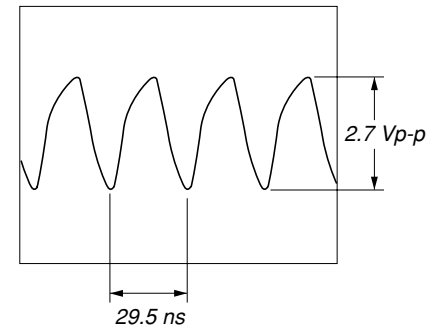
12 IC701 10 (XTAL)



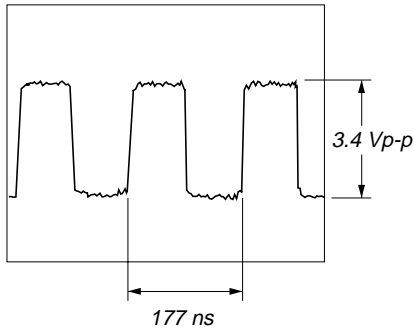
13 IC701 10 (XTA1)



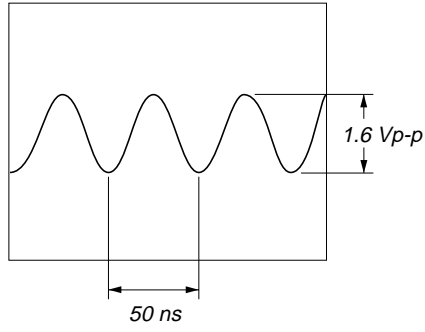
14 IC801 11 (MCKI)



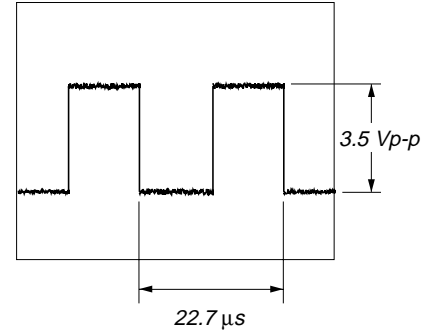
15 IC801 59 (BCKAI)



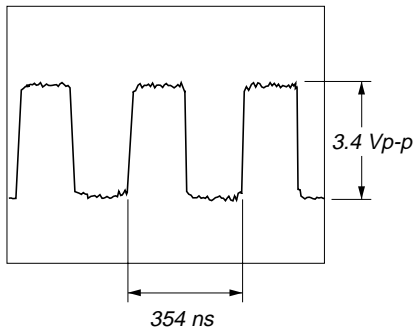
20 IC901 41 (EXTAL)



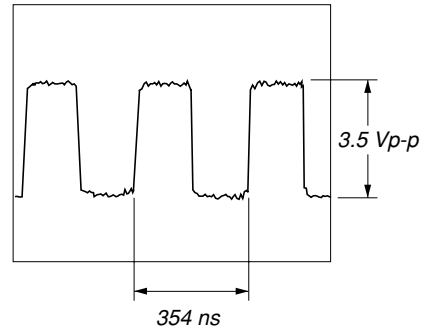
25 IC803 90 (LRCK) (CD Play mode)



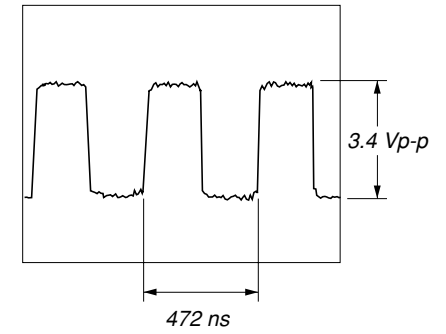
16 IC801 61 (PHREFI)



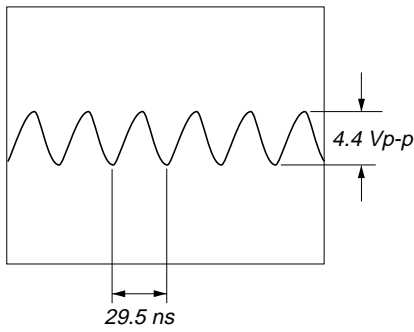
21 IC803 28 (FS128)



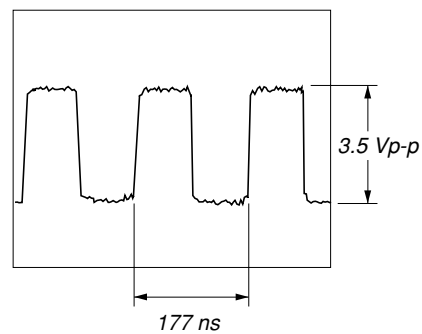
26 IC803 94 (BCLK) (CD Play mode)



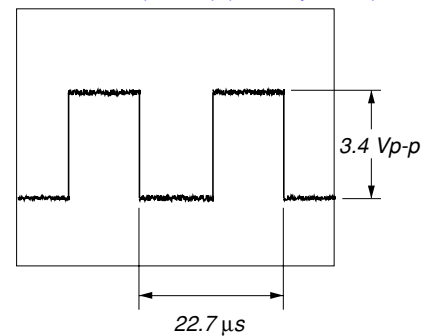
17 IC811 8



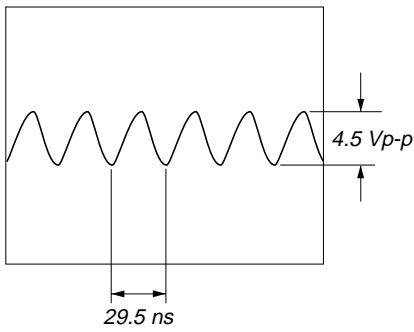
22 IC803 30 (FS64)



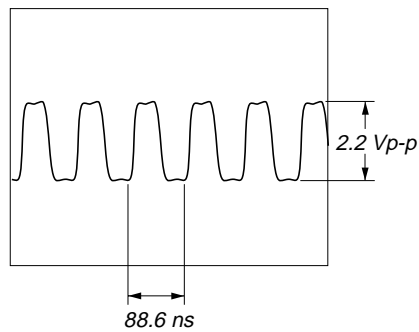
27 IC803 95 (LRCKI) (CD Play mode)



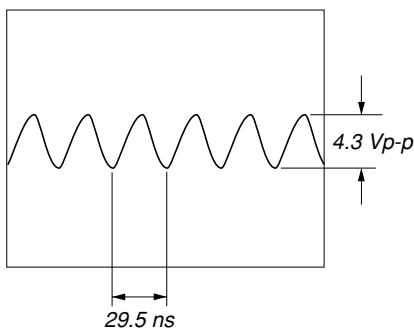
18 IC811 10



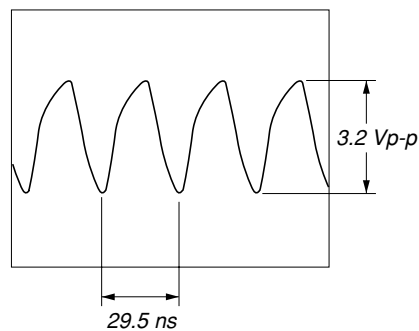
23 IC803 65 (DVCKI)



19 IC811 12

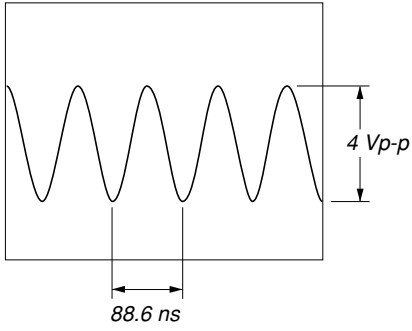


24 IC803 88 (MCKI)

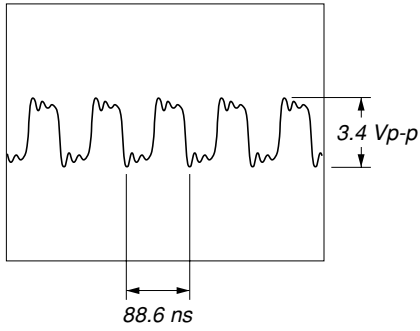


– AUDIO Board –

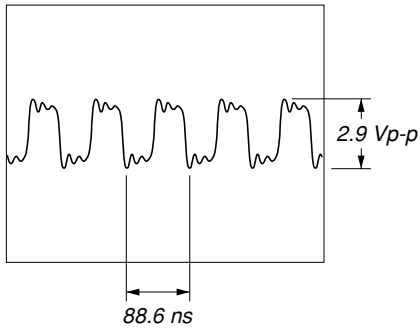
① IC304 ①



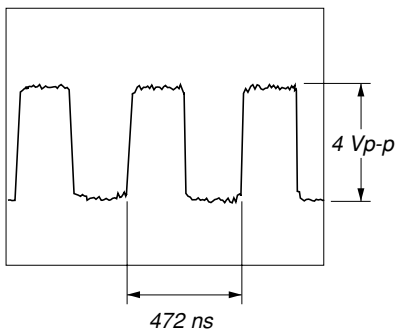
② IC304 ④, ⑥, ⑫



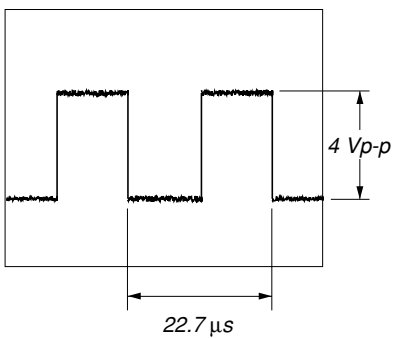
③ IC304 ⑧



④ IC301 – 303 ③ (PBCK)
(CD Play mode)

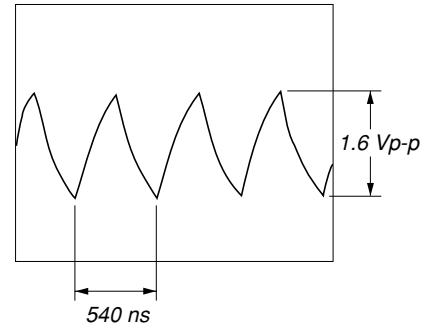


⑤ IC301 – 303 ⑤ (PLRCK)
(CD Play mode)

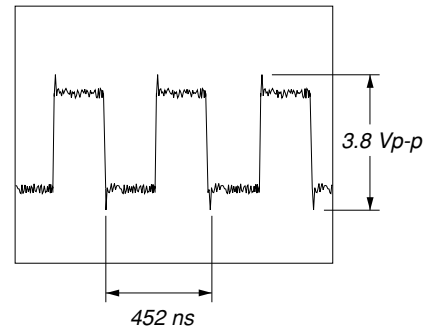


– DISPLAY Board –

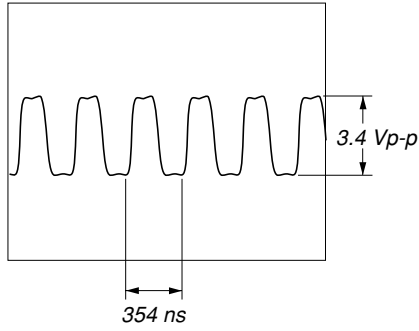
① IC801 ⑤① (OSCO)



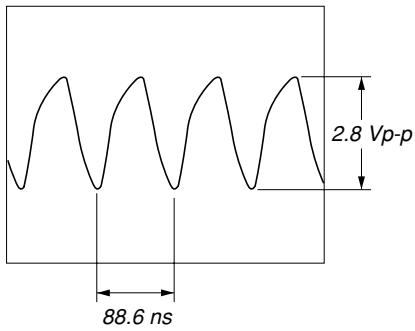
② IC801 ⑤② (OSCI)



⑥ IC301 – 303 ⑫ (DBCK)

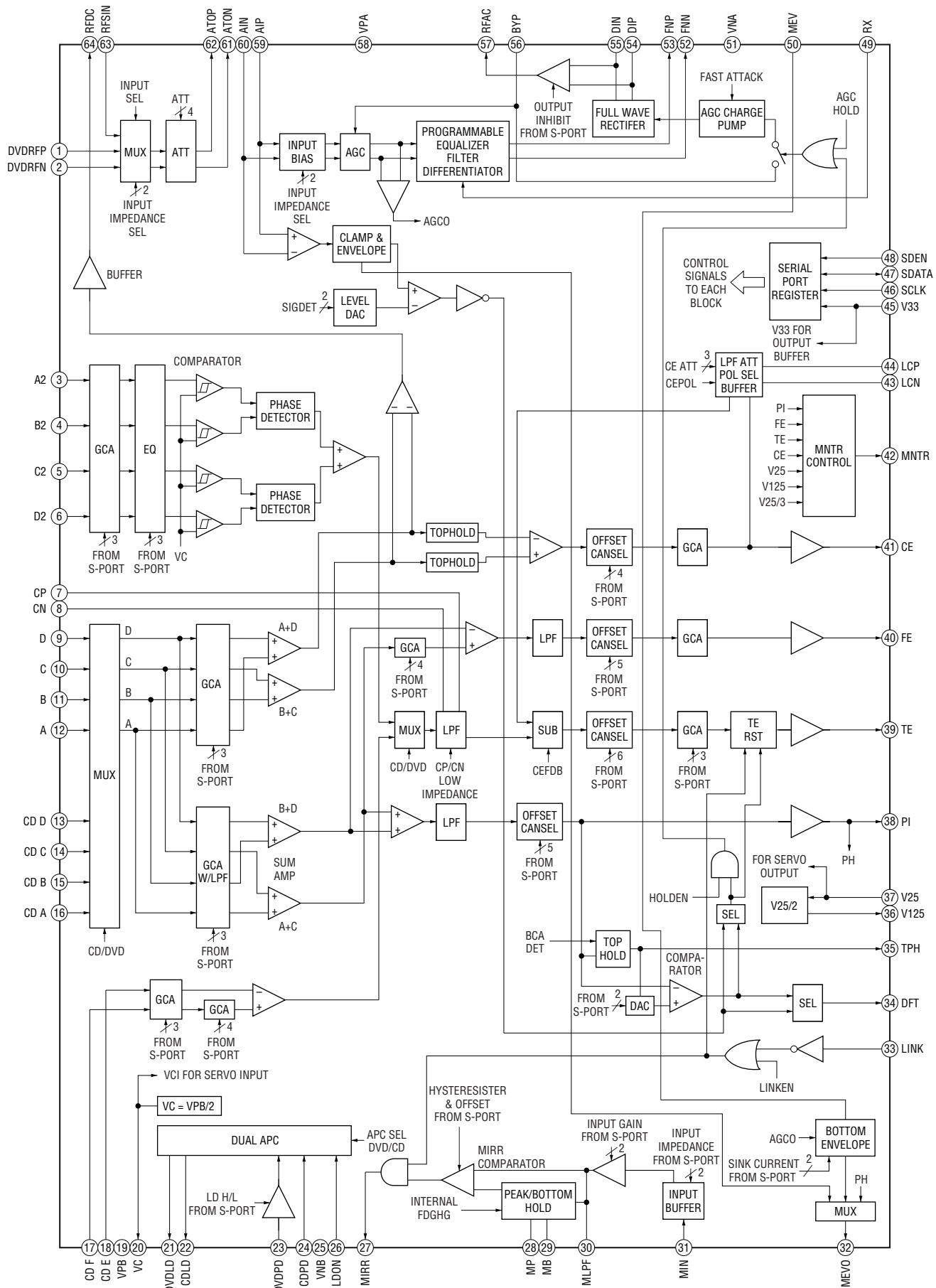


⑦ IC301 – 303 ⑩ (PSCK), ⑰ (DSCK)



• IC Block Diagrams
– RF Board –

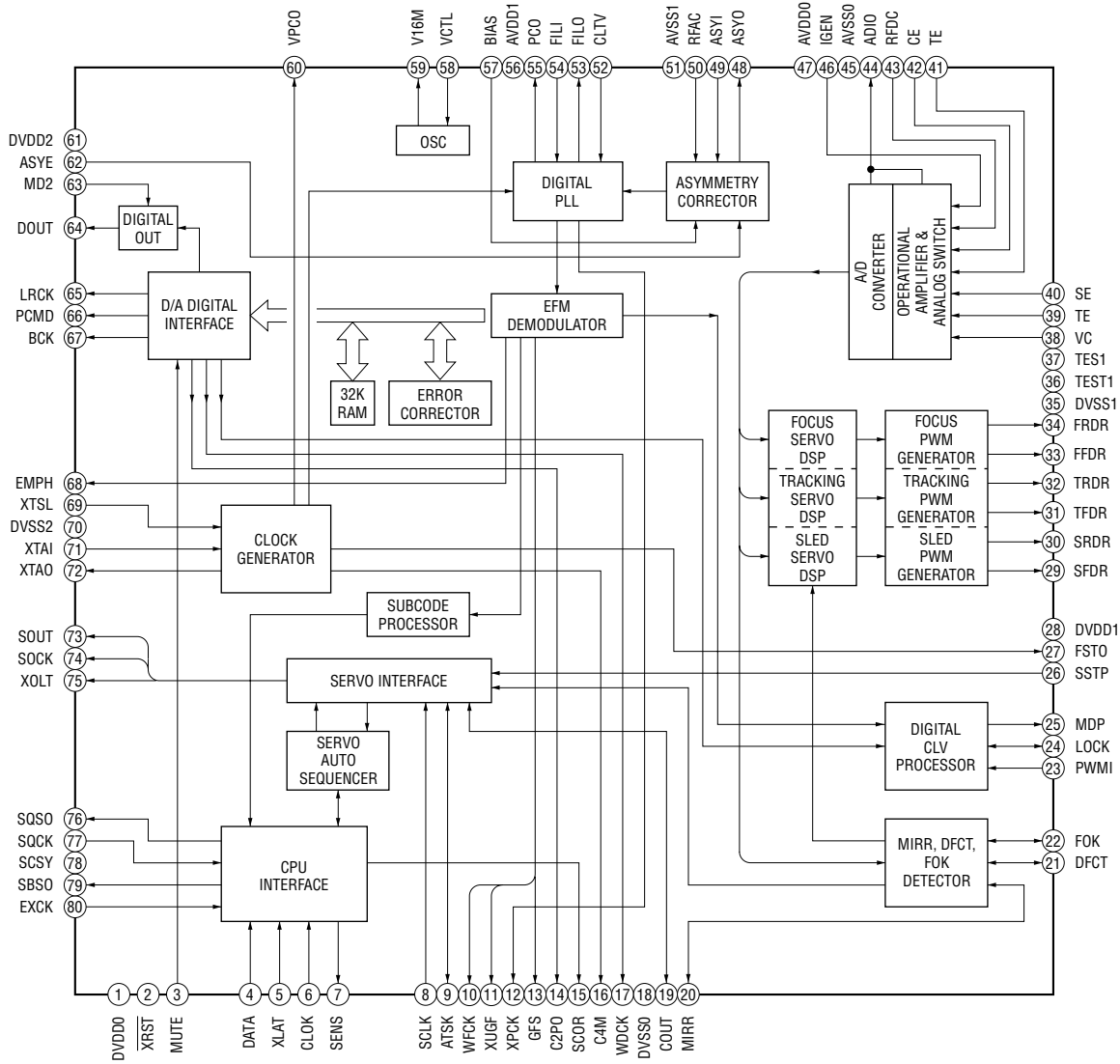
IC001 CXD1881R



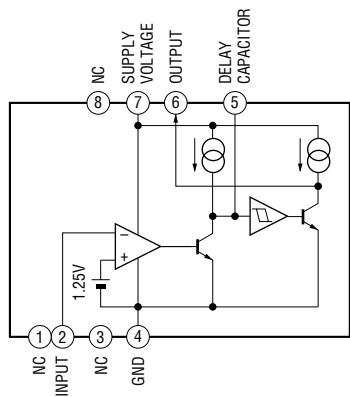
SCD-XE670

– MAIN Board –

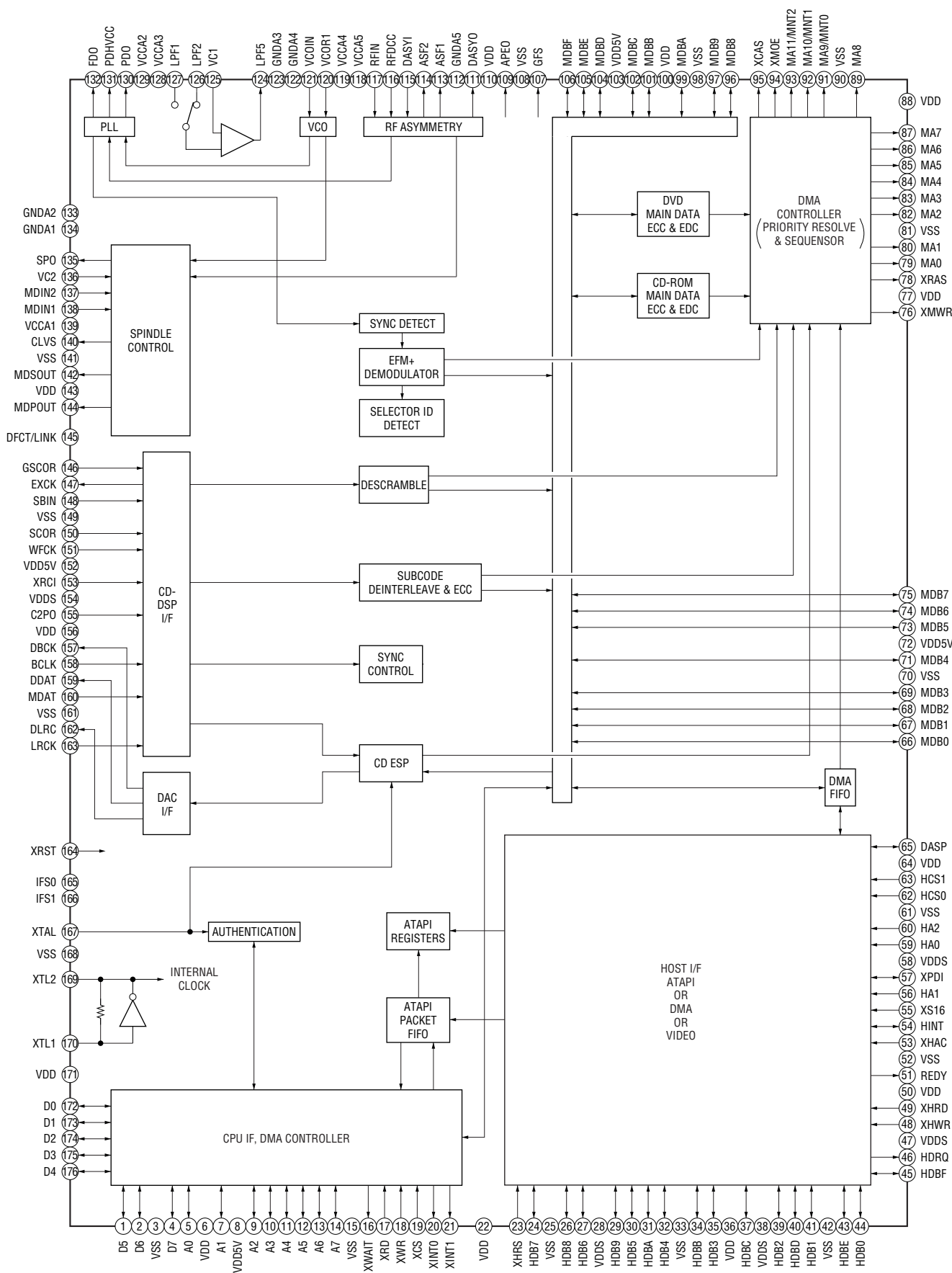
IC509 CXD3068Q



IC905 M51957BFP-600C



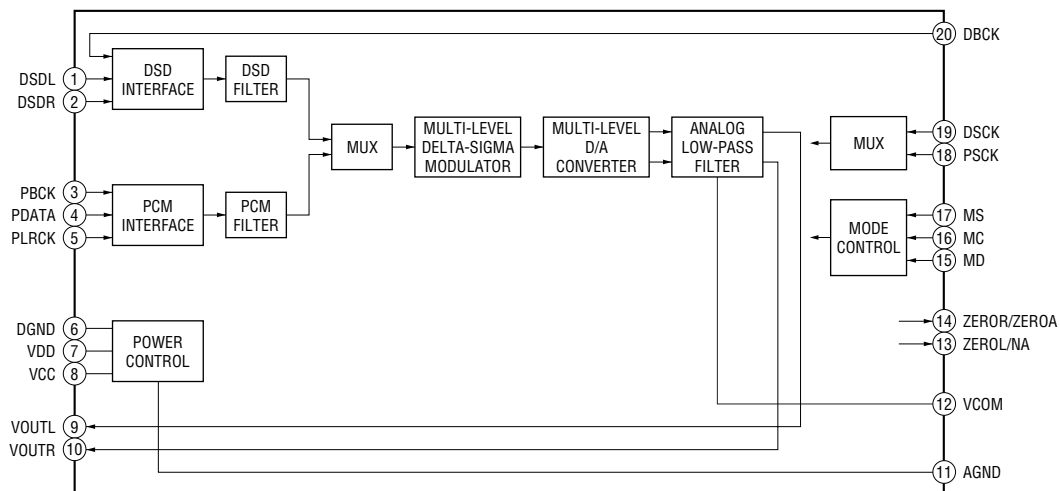
IC701 CXD1882R-1



SCD-XE670

– AUDIO Board –

IC301 – 303 DSD1702E/2K



5-23. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC509 CXD3068Q (DIGITAL SIGNAL PROCESSOR, DIGITAL SERVO PROCESSOR)

| 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 on/off control signal input from the I/O expander (IC902) “H”: muting on |
| 4 | DATA | I | Serial data input from the CPU (IC901) |
| 5 | XLAT | I | Serial data latch pulse signal input from the CPU (IC901) |
| 6 | CLOK | I | Serial data transfer clock signal input from the CPU (IC901) |
| 7 | SENS | O | Internal status (SENSE) signal output to the CPU (IC901) |
| 8 | SCLK | I | SENSE serial data reading clock signal input from the CPU (IC901) |
| 9 | ATSK | I/O | Input/output terminal for anti-shock Not used (pull down) |
| 10 | WFCK | O | Write frame clock signal output to the CXD1882R (IC701) |
| 11 | RFCK | O | RFCK 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 CXD1882R (IC701) |
| 15 | SCOR | O | Subcode sync (S0+S1) detection signal output to the CXD1882R (IC701) and CPU (IC901) |
| 16 | C4M | O | 4.2336 MHz clock signal output terminal Not used (open) |
| 17 | WDCK | O | Guard subcode sync (S0+S1) detection signal output to the CXD1882R (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 | I/O | Defect signal input/output terminal Not used (pull up) |
| 22 | FOK | O | Focus OK signal output to the CPU (IC901) |
| 23 | PWMI | I | Spindle motor external control signal input terminal 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 CXD1882R (IC701) |
| 26 | SSTP | I | Detection signal input from limit in 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 BA5938FP (IC502) |
| 30 | SRDR | O | Sled servo drive PWM signal (-) output to the BA5938FP (IC502) |
| 31 | TFDR | O | Tracking servo drive PWM signal (+) output to the BA5938FP (IC502) |
| 32 | TRDR | O | Tracking servo drive PWM signal (-) output to the BA5938FP (IC502) |
| 33 | FFDR | O | Focus servo drive PWM signal (+) output to the BA5938FP (IC502) |
| 34 | FRDR | O | Focus servo drive PWM signal (-) output to the BA5938FP (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 | Middle point servo analog signal input from the NJM3403AV (IC004) |
| 43 | RFDC | I | RF signal input from the CXD1881R (IC001) |
| 44 | ADIO | O | Output terminal for the test 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 | EFM full-swing output terminal |
| 49 | ASYI | I | Asymmetry comparator voltage input terminal |
| 50 | RFAC | I | EFM signal input from the CXD1881R (IC001) |
| 51 | AVSS1 | — | Ground terminal (analog system) |
| 52 | CLTV | I | Internal VCO control voltage input |
| 53 | FILO | O | Filter output for master PLL |
| 54 | FILI | I | Filter input for master PLL |
| 55 | PCO | O | Charge pump output for master PLL |
| 56 | AVDD1 | — | Power supply terminal (+3.3V) (analog system) |
| 57 | BIAS | I | Asymmetry circuit constant current input terminal |
| 58 | VCTL | I | VCO control voltage input terminal for the wideband EFM PLL Not used (fixed at “L”) |
| 59 | V16M | O | VCO oscillation output terminal for the wideband EFM PLL Not used (open) |
| 60 | VPCO | O | Charge pump output terminal for the wideband EFM PLL Not used (pull down) |
| 61 | DVDD2 | — | Power supply terminal (+3.3V) (digital system) |
| 62 | ASYE | I | Asymmetry circuit on/off control signal input terminal “L”: off, “H”: on Not used (fixed at “H”) |
| 63 | MD2 | I | Digital out on/off control signal input from the CPU (IC901) “L”: digital out off, “H”: digital out on |
| 64 | DOUT | O | Digital audio signal output to the DIGITAL (CD) OUT OPTICAL (IC309) |
| 65 | LRCK | O | L/R sampling clock signal (44.1 kHz) output to the CXD1882R (IC701) and CXD9647R (IC803) |
| 66 | PCMD | O | Serial data output to the CXD1882R (IC701) and CXD9647R (IC803) |
| 67 | BCLK | O | Bit clock signal (2.8224 MHz) output to the CXD1882R (IC701) and CXD9647R (IC803) |
| 68 | EMPH | O | “L” is output when playback disc is emphasis off “H” is output when playback disc is emphasis on Not used (open) |
| 69 | XTSL | I | Input terminal for the system clock frequency setting “L”: 16.9344 MHz, “H”: 33.8688MHz (fixed at “H” in this set) |
| 70 | DVSS2 | — | Ground terminal (digital system) |
| 71 | XTAI | I | System clock input terminal (33.8688 MHz) |
| 72 | XTAO | O | System clock output terminal (33.8688 MHz) Not used (open) |
| 73 | SOUT | O | Serial data output terminal Not used (open) |
| 74 | SOCK | O | Serial data reading clock signal output terminal Not used (open) |
| 75 | XOLT | O | Serial data latch pulse signal output terminal 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 | SCSY | I | Input terminal for resynchronization of guard subcode sync (S0+S1) Not used (open) |
| 79 | SBSO | O | Subcode serial data output to the CXD1882R (IC701) |
| 80 | EXCK | I | Subcode serial data reading clock signal input to the CXD1882R (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 | XSRQ | 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 to DSD decoder (IC801) 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 | GNDAS | — | 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 | RFDC | 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 CXD3068Q (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 CXD3068Q (IC509) |
| 147 | EXCK | O | Subcode serial data reading clock signal output to the CXD3068Q (IC509) |
| 148 | SBIN | I | Subcode serial data input from the CXD3068Q (IC509) |
| 149 | VSS | — | Ground terminal (digital system) |
| 150 | SCOR | I | Subcode sync (S0+S1) detection signal input from the CXD3068Q (IC509) |
| 151 | WFCK | I | Write frame clock signal input from the CXD3068Q (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 CXD3068Q (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 CXD3068Q (IC509) |
| 159 | DDAT | O | PCM data output terminal Not used (open) |
| 160 | MDAT | I | Serial data input from the CXD3068Q (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 CXD3068Q (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) |

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| 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 | VSC | — | 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 | VDC | — | 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 | VSIO | — | 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 | VDIO | — | 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 | VSC | — | 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 | VDC | — | 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 | VSIO | — | Ground terminal (for I/O) |
| 43, 44 | SUPDT4, SUPDT5 | O | Supplementary data output terminal Not used (open) |
| 45 | VDIO | — | 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 | VSC | — | 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 | VDC | — | 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 | VSDSD | — | 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 | VDDSD | — | 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 | VSDSD | — | 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 | VDDSD | — | Power supply terminal (+3.3V) (For DSD data output) |
| 78, 79 | TESTO | O | Output terminal for the test (normally: open) |
| 80 | VSC | — | Ground terminal (for core) |
| 81, 82 | TESTO | O | Output terminal for the test (normally: open) |
| 83 | VDC | — | Power supply terminal (+2.5V) (for core) |
| 84, 85 | TESTO | O | Output terminal for the test (normally: open) |
| 86 | VSIO | — | 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 | VSC | — | 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 | VDC | — | Power supply terminal (+2.5V) (for core) |
| 100 to 105 | TESTI | I | Input terminal for the test (normally: fixed at “L”) |
| 106 | VSIO | — | Ground terminal (for I/O) |
| 107 to 109 | TESTI | I | Input terminal for the test (normally: fixed at “L”) |
| 110 | VDIO | — | 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 (IC804) for PSP physical disc mark detection Not used (open) |
| 115 | TESTI | I | Input terminal for disc inspection mode from the CXD9647R (IC803) |
| 116 | VSC | — | Ground terminal (for core) |
| 117 to 120 | WAD4 to WAD7 | I | External A/D data input terminal from the A/D converter (IC804) for PSP physical disc mark detection Not used (open) |
| 121 | VDC | — | 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 | WAVDD | — | 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 | WAVSS | — | A/D ground terminal (for PSP physical disc mark detection) |
| 130 | VSIO | — | Ground terminal (for I/O) |
| 131 to 134 | DQ7 to DQ4 | I/O | Two-way data bus with the D-RAM (IC808) |
| 135 | VDIO | — | 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 | VSIO | — | 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 | VDIO | — | 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 | VSC | — | Ground terminal (for core) |
| 151, 152 | A9, A8 | O | Address signal output to the D-RAM (IC808) |
| 153 | VDC | — | Power supply terminal (+2.5V) (for core) |
| 154 to 157 | A7 to A4 | O | Address signal output to the D-RAM (IC808) |
| 158 | VSIO | — | Ground terminal (for I/O) |
| 159 to 162 | A3 to A0 | O | Address signal output to the D-RAM (IC808) |
| 163 | VDIO | — | 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 | TESTI | 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 (IC301) |

| 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 (IC301) |
| 59 | GND | — | Ground terminal (digital system) |
| 60 | DSALS | O | DSD data (surround L-ch) output to the digital filter (IC302) |
| 61 | GND | — | Ground terminal (digital system) |
| 62 | DSARS | O | DSD data (surround R-ch) output to the digital filter (IC302) |
| 63 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 64 | DSAC | O | DSD data (center) output to the digital filter (IC303) |
| 65 | GND | — | Ground terminal (digital system) |
| 66 | DSASW | O | DSD data (sub woofer) output to the digital filter (IC303) |
| 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 for DSD output phase modulation to the digital filter (IC301 to IC303) |
| 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 (normally: fixed at “L”) |
| 78 | TESTI | I | Input terminal for the test Not used |
| 79 | XSBSL2 | I | HD mode selection signal input from the I/O expander (IC902) |
| 80, 81 | TESTI | I | Input terminal for the test Not used |
| 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 (IC301 to IC303) |
| 91 | CDDATAR | O | Serial data output terminal Not used (open) |
| 92 | CDDATAL | O | Serial data output to the digital filter (IC301) |
| 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 CXD3068Q (IC509) |
| 95 | LRCKI | I | L/R sampling clock signal (44.1 kHz) input from the CXD3068Q (IC509) |
| 96 | CDDATAI | I | Serial data input from the CXD3068Q (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 CXP973F064-210R (CPU)

| Pin No. | Pin Name | I/O | Description |
|----------|-------------------------------|-----|---|
| 1 | MODE DF | O | SACD/CD mode selection signal output to the muting circuit “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 CXD3068Q (IC509) “L”: digital out off, “H”: digital out on |
| 4 | LAT DAC | O | Serial data latch pulse signal output to the D/A converter Not used (open) |
| 5 | DATA DAC | O | Serial data output to the D/A converter Not used (open) |
| 6 | CLK DAC | O | Serial data transfer clock signal output to the D/A converter Not used (open) |
| 7 | FCS JMP 1 | O | Focus jump 1 signal output to the BA5983FP (IC502) |
| 8 | FCS JMP 2 | O | Focus jump 2 signal output to the BA5983FP (IC502) |
| 9 | SENS CD | I | Internal status (SENSE) signal input from the CXD3068Q (IC509) |
| 10 | XCS DRAM | 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 terminal Not used (open) |
| 25 | MON DVD | I | Monitor signal input terminal Not used (open) |
| 26 | DATA CD | O | Serial data output to the CXD3068Q (IC509) |
| 27 | XLAT CD | O | Serial data latch pulse signal output to the CXD3068Q (IC509) |
| 28 | A1IN | I | Control A1 signal input terminal Not used (fixed at “H”) |
| 29 | COUT CD | I | Numbers of track counted signal input from the CXD3068Q (IC509) |
| 30 | $\overline{\text{IN SW}}$ | I | Loading in switch (S152) input terminal “L”: loading in |
| 31 | $\overline{\text{OUT SW}}$ | I | Loading out switch (S151) input terminal “L”: loading out |
| 32 | MIRR RF | I | Mirror signal input from the CXD3068Q (IC509) |
| 33 | SUBQ CD | I | Subcode Q data input from the CXD3068Q (IC509) |
| 34 | SCOR CD | I | Subcode sync (S0+S1) detection signal input from the CXD3068Q (IC509) |
| 35 | SQCLK CD | O | Subcode Q data reading clock signal output to the CXD3068Q (IC509) |
| 36 | — | — | Not used (open) |
| 37 | CLOK CD | O | Serial data transfer clock signal output to the CXD3068Q (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 | SPDA | O | Spindle motor (M3) control signal output to the BA5912AFP (IC512) |
| 44 | APDO | O | Output terminal for offset adjustment of APEO (Ⓢpin of CXD1882R (IC701)) |
| 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 | $\overline{\text{READY DSD}}$ | 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) |
| 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) |

| Pin No. | Pin Name | I/O | Description |
|----------|-----------|-----|---|
| 51 | LD ON | O | Laser diode on/off control signal output to the CXD1881R (IC001) “L”: laser diode off, “H”: laser diode on |
| 52 | XDIS IO | O | Reset signal output to the I/O expander (IC902) “L”: reset |
| 53 | SDOUT | O | Serial data output to the MSM9202 (IC801) |
| 54 | SLK | O | Serial data transfer clock signal output to the MSM9202 (IC801) |
| 55 | VSS | — | Ground terminal (digital system) |
| 56 | REQ | O | Request signal output to the MSM9202 (IC801) |
| 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 | LED DRV | O | LED drive signal output of the multi-channel indicator (D803) “H”: LED on |
| 60 | KEY 0 | I | Key input terminal (A/D input) S807 to S809 (▷, ■, ■) keys input |
| 61 | KEY 1 | I | Key input terminal (A/D input) S801 to S805 (◀◀, ▶▶, MENU, SACD/CD, MILTI/2CH) keys input |
| 62 | KEY 2 | I | Key input terminal (A/D input) S810 to S814, S830 (TIME/TEXT, PLAY MODE, CHECK, CLEAR, REPEAT, PUSH ENTER) keys input |
| 63 | KEY 3 | I | Key input terminal (A/D input) S806 (OPEN/CLOSE ≡) key input |
| 64 | JITTER | I | Jitter signal input |
| 65 | TE | I | Tracking error signal input from the CXD1881R (IC001) |
| 66 | SP ERR | I | Spindle motor backward voltage input terminal |
| 67 | FE/PI | 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 CXD3068Q (IC509) |
| 72 | SCLK CD | O | SENSE serial data reading clock signal output to the CXD3068Q (IC509) |
| 73 | 1/2 LD | — | 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 | XRF AD CE | O | Chip enable signal output to the A/D converter Not used (open) |
| 77 | SDCLK RF | 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 | RM | I | Remote control signal input from the remote control receiver (IC802) |
| 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 | NC | — | Not used (fixed at “H”) |
| 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 Not used |
| 98 | LATCH DF | O | Latch signal output to the digital filter (IC301 to IC303) |
| 99 | SHIFT DF | O | Shift signal output to the digital filter (IC301 to IC303) |
| 100 | SCDATA DF | O | Serial data output to the digital filter (IC301 to IC303) |

• MAIN BOARD IC902 CXD1095BR (I/O EXPANDER)

| Pin No. | Pin Name | I/O | Description |
|----------|-----------------------------|-----|--|
| 1 | MUT CD | O | Muting on/off control signal output to the CXD3068Q (IC509) "L": muting on |
| 2 | MUT 2D | O | Muting control signal output to the BA5983FP (IC502) |
| 3 | MUT LOAD | O | Muting control signal output to the BA5912AFP (IC512) |
| 4 | SP ON | O | Muting control signal output to the BA5912AFP (IC512) |
| 5 | PB5 | — | Not used (open) |
| 6 | TBLL | O | Table motor drive signal (counterclockwise direction) output terminal Not used (pull up) |
| 7 | TBLR | O | Table motor drive signal (clockwise direction) output terminal Not used (pull up) |
| 8 | VSS | — | Ground terminal (digital system) |
| 9 | PC0 | — | Not used (open) |
| 10 | D SENS | I | Disc status detection signal input terminal Not used (fixed at "L") |
| 11, 12 | S1, S2 | I | Disc tray position detection signal input terminal Not used (fixed at "H") |
| 13 | LOAD OUT | O | Loading motor drive signal (loading out direction) output to the BA5912AFP (IC512) |
| 14 | PC5 | — | Not used (open) |
| 15 | LOAD IN | O | Loading motor drive signal (loading in direction) output to the BA5912AFP (IC512) |
| 16 | A1OUT | O | Control A1 signal output terminal Not used (open) |
| 17 | NC | — | Not used (open) |
| 18 | $\overline{\text{RST DSD}}$ | O | Reset signal output to the DSD decoder (IC801) and CXD9647R (IC803) "L": reset |
| 19 | $\overline{\text{RST DP}}$ | O | Reset signal output to the MSM9202 (IC801) "L": reset |
| 20 | $\overline{\text{RST DVD}}$ | O | Reset signal output to the CXD1882R (IC701) "L": reset |
| 21 | $\overline{\text{RST CD}}$ | O | Reset signal output to the CXD3068Q (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 "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 the 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 the 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, 48 | PE0, PE1 | — | Not used (open) |
| 49 | NC | — | Not used (open) |
| 50 | PE2 | — | Not used (open) |
| 51 | CDMODESEL | O | CD mode selection signal output to the CXD9647R (IC803) |
| 52 | HDMODESEL | O | HD mode selection signal output to the CXD9647R (IC803) |
| 53 | XZLAT | O | Serial data latch pulse signal output to the CXD9647R (IC803) |
| 54 | CD SACD | O | SACD/CD mode selection signal output terminal Not used |
| 55 | VSS | — | Ground terminal (digital system) |

| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|--|
| 56 | VDD | — | Power supply terminal (+3.3V) (digital system) |
| 57, 58 | PA3, PA4 | — | Not used (open) |
| 59 | OUT SW | I | Disc tray out detection signal input terminal Not used (fixed at “H”) |
| 60 | PA6 | — | Not used (open) |
| 61 | LIM SW | I | Detection signal input from limit in switch (S1) The optical pick-up is inner position when “H” |
| 62 | PB0 | — | Not used (open) |
| 63, 64 | NC | — | Not used (open) |

SECTION 6 EXPLODED VIEWS

NOTE:

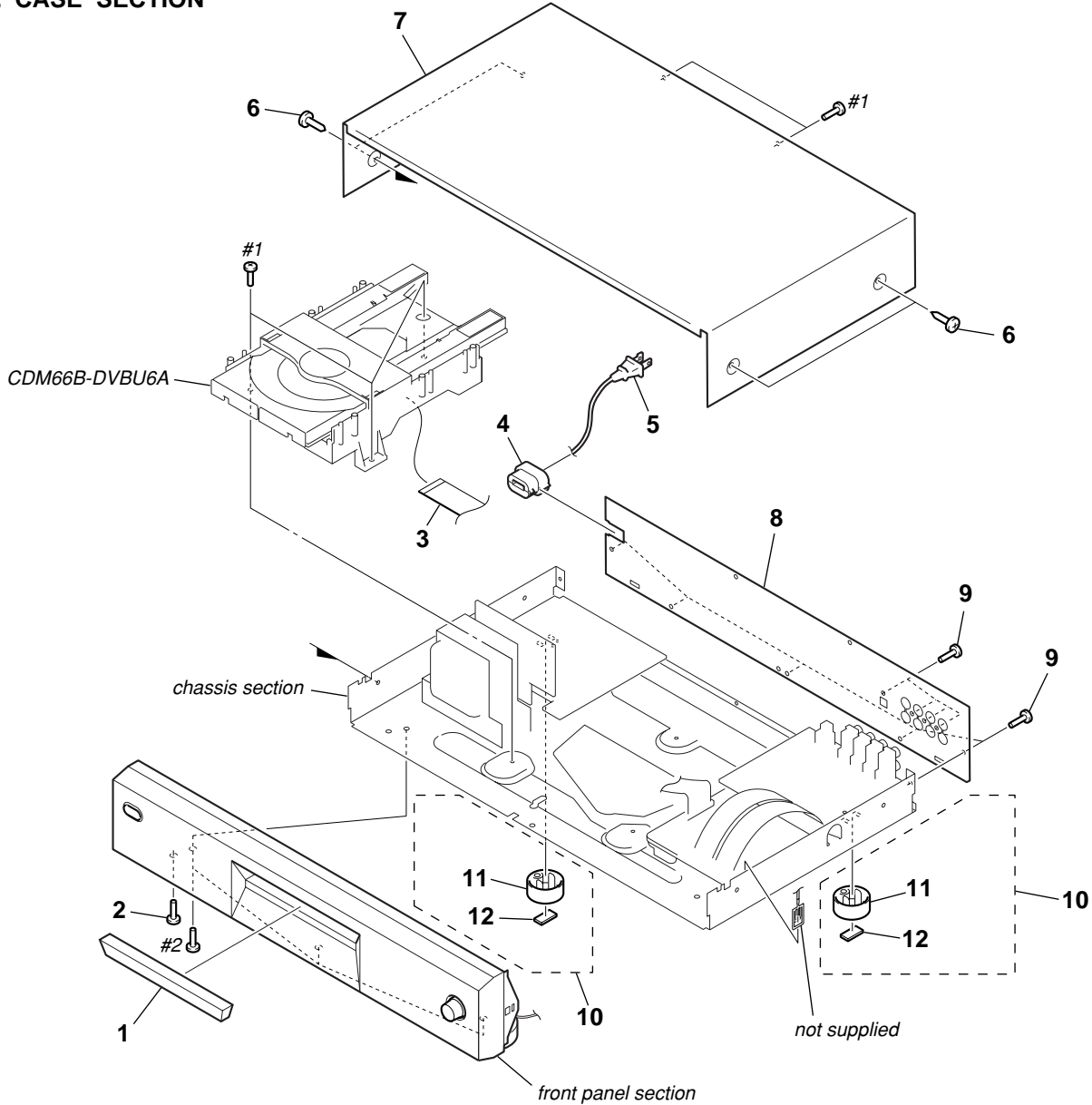
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)
↑
↑
Parts Color Cabinet's Color
- Abbreviation
CND: Canadian model

- 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.

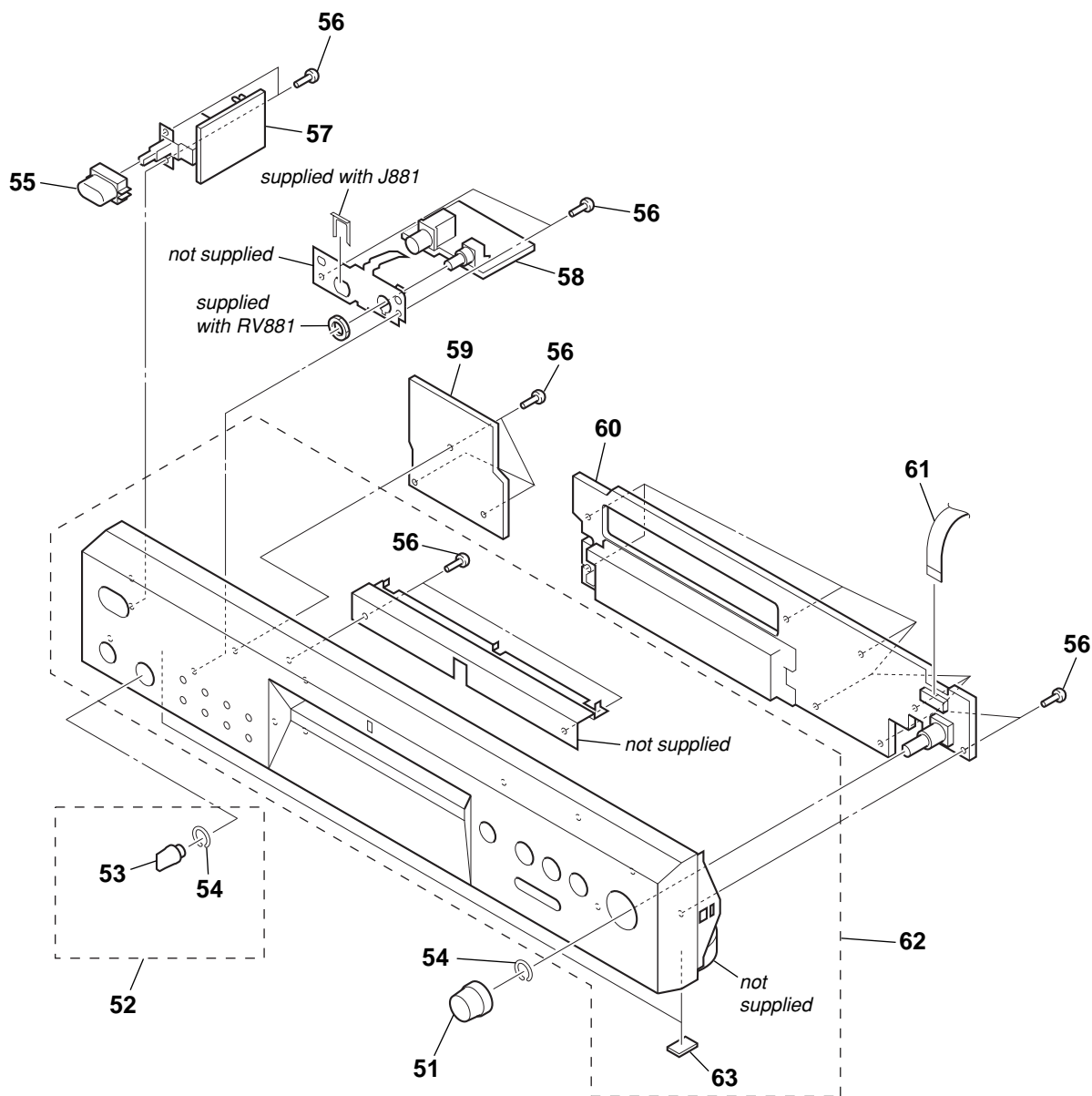
6-1. CASE SECTION



| Ref. No. | Part No. | Description | Remark |
|------------|--------------|------------------------------|--------|
| 1 | X-4953-788-1 | PANEL ASSY, LOADING (BLACK) | |
| 1 | X-4953-790-1 | PANEL ASSY, LOADING (SILVER) | |
| 2 | 3-704-515-21 | SCREW (BV/RING) | |
| 3 | 1-757-772-12 | WIRE (FLAT TYPE) (30 CORE) | |
| * 4 | 3-703-244-00 | BUSHING (2104), CORD | |
| Δ 5 | 1-777-071-61 | CORD, POWER (AEP, UK) | |
| Δ 5 | 1-783-531-31 | CORD, POWER (US, CND) | |
| 6 | 4-210-291-01 | SCREW (CASE 3 TP2) (BLACK) | |
| 6 | 4-210-291-11 | SCREW (CASE 3 TP2) (SILVER) | |

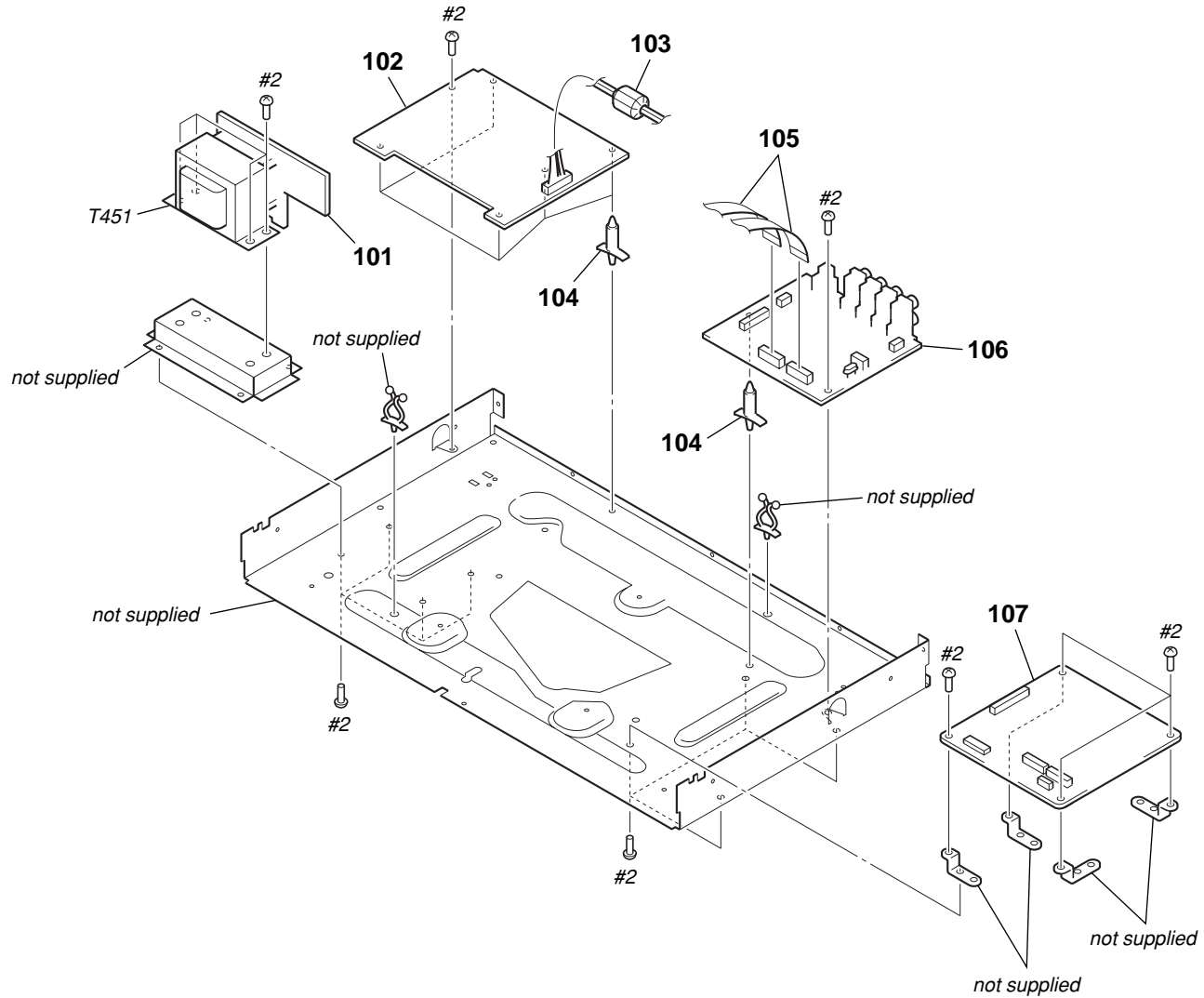
| Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------------|--------|
| 7 | 4-232-149-31 | CASE (408226) (BLACK) | |
| 7 | 4-232-580-31 | CASE (408226) (SILVER) | |
| 8 | 4-234-033-02 | PANEL, BACK (AEP, UK) | |
| 8 | 4-234-033-22 | PANEL, BACK (US) | |
| 8 | 4-234-033-42 | PANEL, BACK (CND) | |
| 9 | 3-704-515-31 | SCREW (BV/RING) | |
| 10 | X-4953-448-1 | FOOT ASSY | |
| 11 | 4-232-237-01 | FOOT (DIA. 30) | |
| 12 | 4-977-358-01 | CUSHION | |

6-2. FRONT PANEL SECTION



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------------------|--------|----------|--------------|-------------------------------------|--------|
| 51 | 4-231-928-01 | KNOB (AMS) (BLACK) | | 59 | A-4726-124-A | KEY BOARD, COMPLETE (US, CND) | |
| 51 | 4-231-928-11 | KNOB (AMS) (SILVER) | | 59 | A-4726-138-A | KEY BOARD, COMPLETE (UK) | |
| 52 | A-2003-693-A | KNOB (DIA. 10) ASSY (BLACK) | | 59 | A-4726-145-A | KEY BOARD, COMPLETE (AEP) | |
| 52 | A-4672-996-A | KNOB (DIA. 10) ASSY (SILVER) | | 60 | A-4726-123-A | DISPLAY BOARD, COMPLETE (US, CND) | |
| 53 | 3-354-931-01 | KNOB (DIA. 10) (BLACK) | | 60 | A-4726-136-A | DISPLAY BOARD, COMPLETE (UK) | |
| 53 | 3-354-931-41 | KNOB (DIA. 10) (SILVER) | | 60 | A-4726-143-A | DISPLAY BOARD, COMPLETE (AEP) | |
| 54 | 3-354-981-01 | SPRING (SUS), RING | | 61 | 1-757-773-11 | WIRE (FLAT TYPE) (12 CORE) | |
| 55 | 4-231-973-01 | BUTTON (POWER) (BLACK) | | 62 | X-4953-805-1 | PANEL ASSY, FRONT (AEP, UK: BLACK) | |
| 55 | 4-231-973-11 | BUTTON (POWER) (SILVER) | | 62 | X-4953-806-1 | PANEL ASSY, FRONT (US, CND) | |
| 56 | 4-951-620-01 | SCREW (2.6X8), +BVTP | | 62 | X-4953-807-1 | PANEL ASSY, FRONT (AEP, UK: SILVER) | |
| 57 | 1-681-751-11 | POWER SW BOARD | | 63 | 4-977-358-01 | CUSHION | |
| 58 | 1-681-753-11 | HEADPHONE BOARD | | | | | |

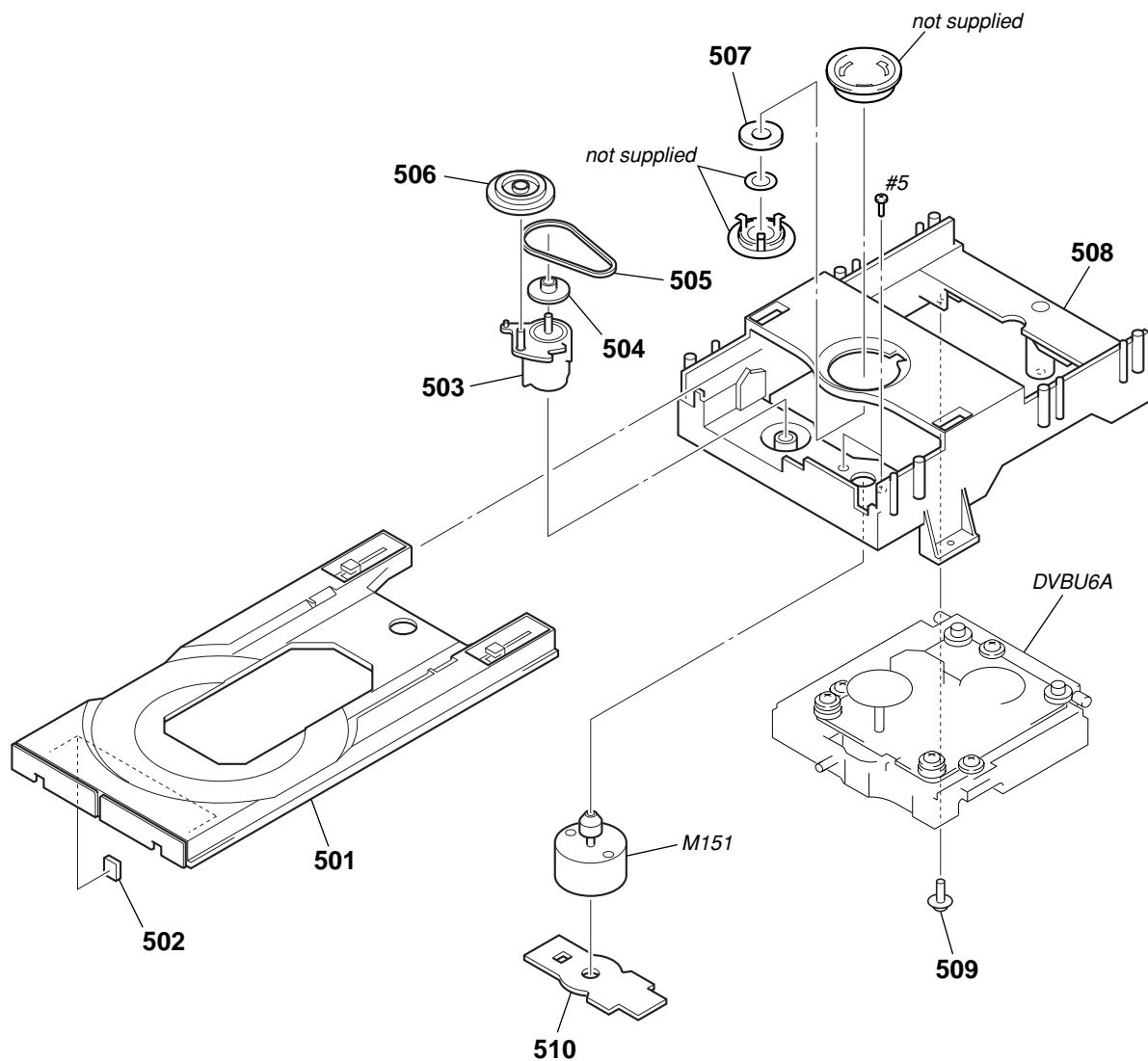
6-3. CHASSIS SECTION



| | |
|---|--|
| <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> |
|---|--|

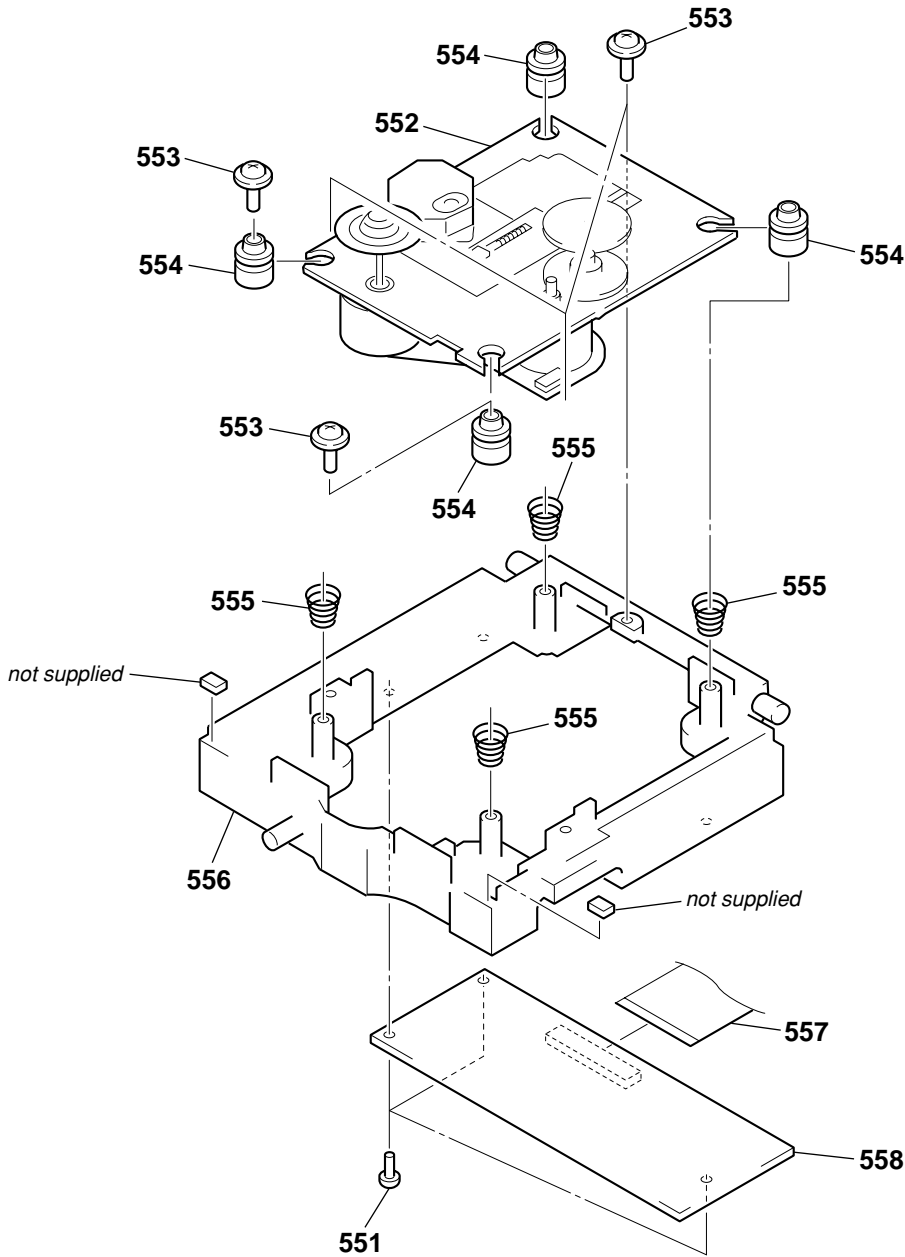
| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------------|--------|------------------|--------------|---------------------------------|--------|
| 101 | 1-681-752-11 | PT BOARD | | 106 | A-4726-122-A | AUDIO BOARD, COMPLETE (US, CND) | |
| 102 | A-4726-118-A | POWER BOARD, COMPLETE (US, CND) | | 106 | A-4726-137-A | AUDIO BOARD, COMPLETE (UK) | |
| 102 | A-4726-132-A | POWER BOARD, COMPLETE (UK) | | 106 | A-4726-144-A | AUDIO BOARD, COMPLETE (AEP) | |
| 102 | A-4726-139-A | POWER BOARD, COMPLETE (AEP) | | 107 | A-4727-020-A | MAIN BOARD, COMPLETE | |
| 103 | 1-543-798-11 | FILTER, CLAMP (FERRITE CORE) | | \triangle T451 | 1-437-343-11 | TRANSFORMER, POWER (US, CND) | |
| * 104 | 4-954-051-51 | HOLDER, PC BOARD | | \triangle T451 | 1-437-344-11 | TRANSFORMER, POWER (AEP, UK) | |
| 105 | 1-775-172-11 | WIRE (FLAT TYPE) (19 CORE) | | | | | |

6-4. CD MECHANISM DECK SECTION
(CDM66B-DVBU6A)



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|--------------|--------|----------|--------------|---------------------------|--------|
| 501 | 4-231-530-02 | TRAY (66) | | 507 | 3-053-844-01 | YOKE | |
| 502 | 4-232-682-01 | CUSHION (66) | | 508 | 4-231-529-02 | CHASSIS (66) | |
| 503 | 4-232-712-01 | CAM (66) | | 509 | 4-227-899-01 | SCREW (DIA. 12), FLOATING | |
| 504 | 4-232-710-01 | PULLEY (LD) | | 510 | 1-645-721-11 | LOADING BOARD | |
| 505 | 4-232-713-01 | BELT (LD) | | M151 | A-4604-363-A | MOTOR (L) ASSY (LOADING) | |
| 506 | 4-232-711-01 | GEAR (LD) | | | | | |

6-5. BASE UNIT SECTION
(DVBU6A)



| | |
|---|---|
| <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> |
|---|---|

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------------|--------|----------|--------------|----------------------------|--------|
| 551 | 4-218-253-21 | SCREW (M2.6), +BTTP | | 555 | 4-232-627-01 | SPRING (230), CONE COIL | |
| ▲552 | 8-820-132-03 | OPTICAL PICK-UP KHM-230AAA/J1RP | | 556 | 4-232-625-01 | HOLDER (230) | |
| 553 | 4-227-899-01 | SCREW (DIA. 12), FLOATING | | 557 | 1-757-097-11 | WIRE (FLAT TYPE) (25 CORE) | |
| 554 | 4-227-549-11 | INSULATOR | | 558 | A-4726-986-A | RF BOARD, COMPLETE | |

SECTION 7 ELECTRICAL PARTS LIST

AUDIO

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
- Abbreviation
CND: Canadian model

- 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-4726-122-A | AUDIO BOARD, COMPLETE (US, CND) | | C403 | 1-136-356-11 | FILM 470PF 5% | 100V |
| | A-4726-137-A | AUDIO BOARD, COMPLETE (UK) | | C404 | 1-130-892-00 | FILM 0.015uF 5% | 100V |
| | A-4726-144-A | AUDIO BOARD, COMPLETE (AEP) | | C405 | 1-109-857-11 | ELECT 47uF 20% | 63V |
| | | ***** | | C406 | 1-164-315-11 | CERAMIC CHIP 470PF 5% | 50V |
| | | < CAPACITOR > | | C407 | 1-164-315-11 | CERAMIC CHIP 470PF 5% | 50V |
| C303 | 1-102-953-00 | CERAMIC 18PF 5% | 50V | C408 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% | 25V |
| C304 | 1-102-953-00 | CERAMIC 18PF 5% | 50V | C409 | 1-162-921-11 | CERAMIC CHIP 33PF 5% | 50V |
| C305 | 1-109-982-11 | CERAMIC CHIP 1uF 10% | 10V | C411 | 1-162-910-11 | CERAMIC CHIP 5PF 0.25PF | 50V |
| C306 | 1-119-800-11 | ELECT 100uF 20% | 25V | C412 | 1-136-813-11 | FILM 680PF 5% | 100V |
| C307 | 1-135-683-11 | ELECT 330uF | 25V | C421 | 1-127-694-11 | ELECT 47uF 20% | 25V |
| C308 | 1-119-800-11 | ELECT 100uF 20% | 25V | C422 | 1-136-811-11 | FILM 330PF 5% | 100V |
| C309 | 1-109-982-11 | CERAMIC CHIP 1uF 10% | 10V | C423 | 1-136-356-11 | FILM 470PF 5% | 100V |
| C311 | 1-135-683-11 | ELECT 330uF | 25V | C424 | 1-130-892-00 | FILM 0.015uF 5% | 100V |
| C312 | 1-119-800-11 | ELECT 100uF 20% | 25V | C425 | 1-109-857-11 | ELECT 47uF 20% | 63V |
| C313 | 1-109-982-11 | CERAMIC CHIP 1uF 10% | 10V | C426 | 1-164-315-11 | CERAMIC CHIP 470PF 5% | 50V |
| C315 | 1-135-683-11 | ELECT 330uF | 25V | C428 | 1-136-813-11 | FILM 680PF 5% | 100V |
| C316 | 1-119-800-11 | ELECT 100uF 20% | 25V | C441 | 1-127-694-11 | ELECT 47uF 20% | 25V |
| C317 | 1-119-800-11 | ELECT 100uF 20% | 25V | C442 | 1-136-811-11 | FILM 330PF 5% | 100V |
| C318 | 1-119-800-11 | ELECT 100uF 20% | 25V | C443 | 1-136-356-11 | FILM 470PF 5% | 100V |
| C319 | 1-119-800-11 | ELECT 100uF 20% | 25V | C444 | 1-130-892-00 | FILM 0.015uF 5% | 100V |
| C320 | 1-119-800-11 | ELECT 100uF 20% | 25V | C445 | 1-109-857-11 | ELECT 47uF 20% | 63V |
| C321 | 1-119-800-11 | ELECT 100uF 20% | 25V | C446 | 1-164-315-11 | CERAMIC CHIP 470PF 5% | 50V |
| C322 | 1-126-959-11 | ELECT 0.47uF 20% | 50V | C448 | 1-136-813-11 | FILM 680PF 5% | 100V |
| C323 | 1-126-959-11 | ELECT 0.47uF 20% | 50V | C501 | 1-127-694-11 | ELECT 47uF 20% | 25V |
| C330 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | C502 | 1-136-811-11 | FILM 330PF 5% | 100V |
| C331 | 1-119-800-11 | ELECT 100uF 20% | 25V | C503 | 1-136-356-11 | FILM 470PF 5% | 100V |
| C332 | 1-109-982-11 | CERAMIC CHIP 1uF 10% | 10V | C504 | 1-130-892-00 | FILM 0.015uF 5% | 100V |
| C333 | 1-126-916-11 | ELECT 1000uF 20% | 6.3V | C505 | 1-109-857-11 | ELECT 47uF 20% | 63V |
| C334 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V | C506 | 1-164-315-11 | CERAMIC CHIP 470PF 5% | 50V |
| C335 | 1-126-024-11 | ELECT 220uF 20% | 16V | C507 | 1-164-315-11 | CERAMIC CHIP 470PF 5% | 50V |
| C336 | 1-126-009-81 | ELECT 100uF 20% | 16V | C508 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% | 25V |
| C337 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V | C509 | 1-162-921-11 | CERAMIC CHIP 33PF 5% | 50V |
| C338 | 1-135-683-11 | ELECT 330uF | 25V | C511 | 1-162-910-11 | CERAMIC CHIP 5PF 0.25PF | 50V |
| C339 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V | C512 | 1-136-813-11 | FILM 680PF 5% | 100V |
| C340 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V | C521 | 1-127-694-11 | ELECT 47uF 20% | 25V |
| C341 | 1-109-982-11 | CERAMIC CHIP 1uF 10% | 10V | C522 | 1-136-811-11 | FILM 330PF 5% | 100V |
| C342 | 1-109-982-11 | CERAMIC CHIP 1uF 10% | 10V | C523 | 1-136-356-11 | FILM 470PF 5% | 100V |
| C343 | 1-109-982-11 | CERAMIC CHIP 1uF 10% | 10V | C524 | 1-130-892-00 | FILM 0.015uF 5% | 100V |
| C344 | 1-119-800-11 | ELECT 100uF 20% | 25V | C525 | 1-109-857-11 | ELECT 47uF 20% | 63V |
| C345 | 1-119-800-11 | ELECT 100uF 20% | 25V | C526 | 1-164-315-11 | CERAMIC CHIP 470PF 5% | 50V |
| C346 | 1-119-800-11 | ELECT 100uF 20% | 25V | C528 | 1-136-813-11 | FILM 680PF 5% | 100V |
| C401 | 1-127-694-11 | ELECT 47uF 20% | 25V | C541 | 1-127-694-11 | ELECT 47uF 20% | 25V |
| C402 | 1-136-811-11 | FILM 330PF 5% | 100V | C542 | 1-136-811-11 | FILM 330PF 5% | 100V |

SCD-XE670

AUDIO

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|--|--------|----------|----------|----------------|--------|
| C543 | 1-136-356-11 | FILM 470PF 5% | 100V | | | | |
| C544 | 1-130-892-00 | FILM 0.015uF 5% | 100V | | | < TRANSISTOR > | |
| C545 | 1-109-857-11 | ELECT 47uF 20% | 63V | | | | |
| C546 | 1-164-315-11 | CERAMIC CHIP 470PF 5% | 50V | | | | |
| C548 | 1-136-813-11 | FILM 680PF 5% | 100V | | | | |
| | | < CONNECTOR > | | | | | |
| CN301 | 1-564-509-11 | PLUG, CONNECTOR 6P | | | | | |
| CN302 | 1-794-483-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 19P | | | | | |
| CN303 | 1-794-483-11 | CONNECTOR, FFC (LIF (NON-ZIF)) 19P | | | | | |
| * CN304 | 1-568-952-91 | PIN, CONNECTOR (STRAIGHT) 3P | | | | | |
| * CN305 | 1-506-468-11 | PIN, CONNECTOR 3P | | | | | |
| CN306 | 1-564-506-11 | PLUG, CONNECTOR 3P | | | | | |
| | | < DIODE > | | | | | |
| D301 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | | | |
| D302 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | | | |
| D304 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | | | |
| D305 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | | | |
| D306 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | | | |
| D307 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | | | |
| D308 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | | | |
| | | < IC > | | | | | |
| IC301 | 6-700-327-01 | IC DSD1702E/2K | | | | | |
| IC302 | 6-700-327-01 | IC DSD1702E/2K | | | | | |
| IC303 | 6-700-327-01 | IC DSD1702E/2K | | | | | |
| IC304 | 8-759-660-27 | IC SN74HCU04APWR | | | | | |
| IC305 | 8-759-447-30 | IC NJM2114M-TE2 | | | | | |
| IC306 | 8-759-447-30 | IC NJM2114M-TE2 | | | | | |
| IC307 | 8-759-447-30 | IC NJM2114M-TE2 | | | | | |
| IC308 | 8-759-711-85 | IC NJM4580E-D | | | | | |
| IC309 | 8-749-012-69 | IC GP1F38T (DIGITAL (CD) OUT OPTICAL) | | | | | |
| IC310 | 8-759-445-59 | IC BA033T | | | | | |
| | | < JACK > | | | | | |
| J301 | 1-785-868-11 | JACK, PIN 2P (ANALOG 2CH OUT) | | | | | |
| J302 | 1-785-536-11 | JACK, PIN (6P) (ANALOG 5.1CH OUT FRONT/SURR/CENTER/SUB WOOFER) | | | | | |
| | | < RESISTOR/COIL/NOISE FILTER > | | | | | |
| L301 | 1-216-813-11 | METAL CHIP 220 5% | 1/16W | | | | |
| L302 | 1-216-813-11 | METAL CHIP 220 5% | 1/16W | | | | |
| L303 | 1-216-813-11 | METAL CHIP 220 5% | 1/16W | | | | |
| L304 | 1-216-813-11 | METAL CHIP 220 5% | 1/16W | | | | |
| L305 | 1-414-229-11 | FERRITE 0uH | | | | | |
| L308 | 1-414-180-11 | INDUCTOR 3.3uH | | | | | |
| L310 | 1-424-122-11 | FILTER, NOISE | | | | | |
| L311 | 1-414-180-11 | INDUCTOR 3.3uH | | | | | |
| L401 | 1-216-813-11 | METAL CHIP 220 5% | 1/16W | | | | |
| L402 | 1-216-813-11 | METAL CHIP 220 5% | 1/16W | | | | |
| L403 | 1-216-813-11 | METAL CHIP 220 5% | 1/16W | | | | |
| L404 | 1-414-229-11 | FERRITE 0uH | | | | | |
| L501 | 1-216-813-11 | METAL CHIP 220 5% | 1/16W | | | | |
| L502 | 1-216-813-11 | METAL CHIP 220 5% | 1/16W | | | | |
| L503 | 1-216-813-11 | METAL CHIP 220 5% | 1/16W | | | | |
| L504 | 1-414-229-11 | FERRITE 0uH | | | | | |
| Q301 | 8-729-027-35 | TRANSISTOR DTA143TKA-T146 | | | | | |
| Q303 | 8-729-027-35 | TRANSISTOR DTA143TKA-T146 | | | | | |
| Q401 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | | | | | |
| Q402 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | | | | | |
| Q403 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | | | | | |
| Q421 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | | | | | |
| Q422 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | | | | | |
| Q441 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | | | | | |
| Q442 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | | | | | |
| Q501 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | | | | | |
| Q502 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | | | | | |
| Q503 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | | | | | |
| Q521 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | | | | | |
| Q522 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | | | | | |
| Q541 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | | | | | |
| Q542 | 8-729-141-74 | TRANSISTOR 2SC3624A-T2L15L16 | | | | | |
| | | < RESISTOR/FERRITE BEAD > | | | | | |
| R305 | 1-216-864-11 | METAL CHIP 0 5% | 1/16W | | | | |
| R306 | 1-216-864-11 | METAL CHIP 0 5% | 1/16W | | | | |
| R307 | 1-216-864-11 | METAL CHIP 0 5% | 1/16W | | | | |
| R310 | 1-216-809-11 | METAL CHIP 100 5% | 1/16W | | | | |
| R311 | 1-216-801-11 | METAL CHIP 22 5% | 1/16W | | | | |
| R312 | 1-216-803-11 | METAL CHIP 33 5% | 1/16W | | | | |
| R313 | 1-216-805-11 | METAL CHIP 47 5% | 1/16W | | | | |
| R315 | 1-216-845-11 | METAL CHIP 100K 5% | 1/16W | | | | |
| R323 | 1-216-857-11 | METAL CHIP 1M 5% | 1/16W | | | | |
| R324 | 1-216-845-11 | METAL CHIP 100K 5% | 1/16W | | | | |
| R325 | 1-216-809-11 | METAL CHIP 100 5% | 1/16W | | | | |
| R326 | 1-216-845-11 | METAL CHIP 100K 5% | 1/16W | | | | |
| R327 | 1-414-234-22 | FERRITE 0uH | | | | | |
| R328 | 1-216-065-00 | RES-CHIP 4.7K 5% | 1/10W | | | | |
| R329 | 1-216-801-11 | METAL CHIP 22 5% | 1/16W | | | | |
| R330 | 1-216-801-11 | METAL CHIP 22 5% | 1/16W | | | | |
| R401 | 1-260-008-11 | CARBON MELF 10K 2% | 1/8W | | | | |
| R402 | 1-259-931-11 | CARBON MELF 5.1K 2% | 1/8W | | | | |
| R403 | 1-259-931-11 | CARBON MELF 5.1K 2% | 1/8W | | | | |
| R404 | 1-260-008-11 | CARBON MELF 10K 2% | 1/8W | | | | |
| R405 | 1-259-932-11 | CARBON MELF 6.2K 2% | 1/8W | | | | |
| R406 | 1-260-020-11 | CARBON MELF 100K 2% | 1/8W | | | | |
| R407 | 1-259-989-11 | CARBON MELF 330 2% | 1/8W | | | | |
| R408 | 1-259-989-11 | CARBON MELF 330 2% | 1/8W | | | | |
| R409 | 1-216-065-00 | RES-CHIP 4.7K 5% | 1/10W | | | | |
| R410 | 1-259-983-11 | CARBON MELF 100 2% | 1/8W | | | | |
| R411 | 1-259-983-11 | CARBON MELF 100 2% | 1/8W | | | | |
| R412 | 1-216-065-00 | RES-CHIP 4.7K 5% | 1/10W | | | | |
| R413 | 1-216-849-11 | METAL CHIP 220K 5% | 1/16W | | | | |
| R414 | 1-216-839-11 | METAL CHIP 33K 5% | 1/16W | | | | |
| R415 | 1-220-372-11 | RES-CHIP 200K 5% | 1/16W | | | | |
| R416 | 1-218-917-11 | RES-CHIP 820K 5% | 1/16W | | | | |
| R417 | 1-216-850-11 | METAL CHIP 270K 5% | 1/16W | | | | |
| R418 | 1-216-806-11 | RES-CHIP 56 5% | 1/16W | | | | |
| R419 | 1-216-065-00 | RES-CHIP 4.7K 5% | 1/10W | | | | |
| R421 | 1-260-008-11 | CARBON MELF 10K 2% | 1/8W | | | | |
| R422 | 1-259-931-11 | CARBON MELF 5.1K 2% | 1/8W | | | | |

AUDIO

DISPLAY

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------|---------------|----------|--------------|--------------------------------|---|
| R423 | 1-259-931-11 | CARBON MELF | 5.1K 2% 1/8W | R546 | 1-260-020-11 | CARBON MELF 100K 2% 1/8W | |
| R424 | 1-260-008-11 | CARBON MELF | 10K 2% 1/8W | R547 | 1-259-989-11 | CARBON MELF 330 2% 1/8W | |
| R425 | 1-259-932-11 | CARBON MELF | 6.2K 2% 1/8W | R548 | 1-259-989-11 | CARBON MELF 330 2% 1/8W | |
| R426 | 1-260-020-11 | CARBON MELF | 100K 2% 1/8W | R549 | 1-216-828-11 | METAL CHIP 3.9K 5% 1/16W | |
| R427 | 1-259-989-11 | CARBON MELF | 330 2% 1/8W | R550 | 1-259-983-11 | CARBON MELF 100 2% 1/8W | |
| R428 | 1-259-989-11 | CARBON MELF | 330 2% 1/8W | R551 | 1-216-828-11 | METAL CHIP 3.9K 5% 1/16W | |
| R429 | 1-216-828-11 | METAL CHIP | 3.9K 5% 1/16W | R561 | 1-249-427-11 | CARBON 6.8K 5% 1/4W | |
| R430 | 1-259-983-11 | CARBON MELF | 100 2% 1/8W | R571 | 1-249-427-11 | CARBON 6.8K 5% 1/4W | |
| R431 | 1-216-828-11 | METAL CHIP | 3.9K 5% 1/16W | R581 | 1-249-427-11 | CARBON 6.8K 5% 1/4W | |
| R441 | 1-260-008-11 | CARBON MELF | 10K 2% 1/8W | | | < VIBRATOR > | |
| R442 | 1-259-931-11 | CARBON MELF | 5.1K 2% 1/8W | X301 | 1-767-406-21 | VIBRATOR, CRYSTAL (11.2896MHz) | |
| R443 | 1-259-931-11 | CARBON MELF | 5.1K 2% 1/8W | | | ***** | |
| R444 | 1-260-008-11 | CARBON MELF | 10K 2% 1/8W | | | A-4726-123-A | DISPLAY BOARD, COMPLETE (US, CND) |
| R445 | 1-259-932-11 | CARBON MELF | 6.2K 2% 1/8W | | | A-4726-136-A | DISPLAY BOARD, COMPLETE (UK) |
| R446 | 1-260-020-11 | CARBON MELF | 100K 2% 1/8W | | | A-4726-143-A | DISPLAY BOARD, COMPLETE (AEP) |
| R447 | 1-259-989-11 | CARBON MELF | 330 2% 1/8W | | | | ***** |
| R448 | 1-259-989-11 | CARBON MELF | 330 2% 1/8W | | | 2-389-320-01 | CUSHION |
| R449 | 1-216-828-11 | METAL CHIP | 3.9K 5% 1/16W | * | 4-996-686-03 | HOLDER (FL) | |
| R450 | 1-259-983-11 | CARBON MELF | 100 2% 1/8W | | | < CAPACITOR > | |
| R451 | 1-216-828-11 | METAL CHIP | 3.9K 5% 1/16W | | | C801 | 1-165-319-11 CERAMIC CHIP 0.1uF 50V |
| R461 | 1-249-427-11 | CARBON | 6.8K 5% 1/4W | | | C802 | 1-126-177-11 ELECT 100uF 20% 10V |
| R471 | 1-249-427-11 | CARBON | 6.8K 5% 1/4W | | | C803 | 1-165-319-11 CERAMIC CHIP 0.1uF 50V |
| R481 | 1-249-427-11 | CARBON | 6.8K 5% 1/4W | | | C810 | 1-165-319-11 CERAMIC CHIP 0.1uF 50V |
| R501 | 1-260-008-11 | CARBON MELF | 10K 2% 1/8W | | | C811 | 1-163-009-11 CERAMIC CHIP 0.001uF 10% 50V |
| R502 | 1-259-931-11 | CARBON MELF | 5.1K 2% 1/8W | | | C812 | 1-163-009-11 CERAMIC CHIP 0.001uF 10% 50V |
| R503 | 1-259-931-11 | CARBON MELF | 5.1K 2% 1/8W | | | C813 | 1-163-009-11 CERAMIC CHIP 0.001uF 10% 50V |
| R504 | 1-260-008-11 | CARBON MELF | 10K 2% 1/8W | | | C814 | 1-165-319-11 CERAMIC CHIP 0.1uF 50V |
| R505 | 1-259-932-11 | CARBON MELF | 6.2K 2% 1/8W | | | C815 | 1-163-109-00 CERAMIC CHIP 47PF 5% 50V |
| R506 | 1-260-020-11 | CARBON MELF | 100K 2% 1/8W | | | C820 | 1-165-319-11 CERAMIC CHIP 0.1uF 50V |
| R507 | 1-259-989-11 | CARBON MELF | 330 2% 1/8W | | | C830 | 1-165-319-11 CERAMIC CHIP 0.1uF 50V |
| R508 | 1-259-989-11 | CARBON MELF | 330 2% 1/8W | | | C831 | 1-165-319-11 CERAMIC CHIP 0.1uF 50V |
| R509 | 1-216-065-00 | RES-CHIP | 4.7K 5% 1/10W | | | C832 | 1-165-319-11 CERAMIC CHIP 0.1uF 50V |
| R510 | 1-259-983-11 | CARBON MELF | 100 2% 1/8W | | | C851 | 1-126-177-11 ELECT 100uF 20% 10V |
| R511 | 1-259-983-11 | CARBON MELF | 100 2% 1/8W | | | < CONNECTOR > | |
| R512 | 1-216-065-00 | RES-CHIP | 4.7K 5% 1/10W | | | CN801 | 1-779-549-21 CONNECTOR, FFC (LIF (NON-ZIF)) 12P |
| R513 | 1-216-849-11 | METAL CHIP | 220K 5% 1/16W | | | < LED > | |
| R514 | 1-216-839-11 | METAL CHIP | 33K 5% 1/16W | | | D803 | 8-719-084-07 LED SEL5E20CTP15 (MULTI-CHANNEL) |
| R515 | 1-220-372-11 | RES-CHIP | 200K 5% 1/16W | | | < LEAD > | |
| R516 | 1-218-917-11 | RES-CHIP | 820K 5% 1/16W | | | * EP801 | 1-690-880-31 LEAD (WITH CONNECTOR) |
| R517 | 1-216-850-11 | METAL CHIP | 270K 5% 1/16W | | | < FLUORESCENT INDICATOR TUBE > | |
| R518 | 1-216-806-11 | RES-CHIP | 56 5% 1/16W | | | FL801 | 1-518-749-21 INDICATOR TUBE, FLUORESCENT |
| R519 | 1-216-065-00 | RES-CHIP | 4.7K 5% 1/10W | | | < IC > | |
| R521 | 1-260-008-11 | CARBON MELF | 10K 2% 1/8W | | | IC801 | 8-759-829-13 IC MSM9202-06GS-BK |
| R522 | 1-259-931-11 | CARBON MELF | 5.1K 2% 1/8W | | | IC802 | 8-759-826-34 IC NJL74H400A |
| R523 | 1-259-931-11 | CARBON MELF | 5.1K 2% 1/8W | | | | (REMOTE CONTROL RECEIVER) |
| R524 | 1-260-008-11 | CARBON MELF | 10K 2% 1/8W | | | < TRANSISTOR > | |
| R525 | 1-259-932-11 | CARBON MELF | 6.2K 2% 1/8W | | | Q801 | 8-729-900-53 TRANSISTOR DTC114EKA |
| R526 | 1-260-020-11 | CARBON MELF | 100K 2% 1/8W | | | | |
| R527 | 1-259-989-11 | CARBON MELF | 330 2% 1/8W | | | | |
| R528 | 1-259-989-11 | CARBON MELF | 330 2% 1/8W | | | | |
| R529 | 1-216-828-11 | METAL CHIP | 3.9K 5% 1/16W | | | | |
| R530 | 1-259-983-11 | CARBON MELF | 100 2% 1/8W | | | | |
| R531 | 1-216-828-11 | METAL CHIP | 3.9K 5% 1/16W | | | | |
| R541 | 1-260-008-11 | CARBON MELF | 10K 2% 1/8W | | | | |
| R542 | 1-259-931-11 | CARBON MELF | 5.1K 2% 1/8W | | | | |
| R543 | 1-259-931-11 | CARBON MELF | 5.1K 2% 1/8W | | | | |
| R544 | 1-260-008-11 | CARBON MELF | 10K 2% 1/8W | | | | |
| R545 | 1-259-932-11 | CARBON MELF | 6.2K 2% 1/8W | | | | |

SCD-XE670

| | | | | |
|----------------|------------------|------------|----------------|-------------|
| DISPLAY | HEADPHONE | KEY | LOADING | MAIN |
|----------------|------------------|------------|----------------|-------------|

| Ref. No. | Part No. | Description | Remark |
|---------------------------|-----------------|---------------------------------|---------------------------|
| Q802 | 8-729-900-53 | TRANSISTOR | DTC114EKA |
| Q803 | 8-729-900-53 | TRANSISTOR | DTC114EKA |
| < RESISTOR > | | | |
| R801 | 1-216-061-00 | RES-CHIP | 3.3K 5% 1/10W |
| R802 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R803 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R804 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R805 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R806 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W |
| R807 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W |
| R808 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W |
| R811 | 1-216-057-00 | METAL CHIP | 2.2K 5% 1/10W |
| R812 | 1-216-061-00 | RES-CHIP | 3.3K 5% 1/10W |
| R815 | 1-216-085-00 | RES-CHIP | 33K 5% 1/10W |
| R816 | 1-216-057-00 | METAL CHIP | 2.2K 5% 1/10W |
| R818 | 1-216-021-00 | METAL CHIP | 68 5% 1/10W |
| R819 | 1-216-057-00 | METAL CHIP | 2.2K 5% 1/10W |
| R820 | 1-216-061-00 | RES-CHIP | 3.3K 5% 1/10W |
| R821 | 1-216-089-00 | RES-CHIP | 47K 5% 1/10W |
| R826 | 1-216-298-00 | METAL CHIP | 2.2 5% 1/10W |
| R851 | 1-216-017-00 | RES-CHIP | 47 5% 1/10W |
| R852 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| < SWITCH/ROTARY ENCODER > | | | |
| S801 | 1-771-349-21 | SWITCH, KEYBOARD (◀▶) | |
| S802 | 1-771-349-21 | SWITCH, KEYBOARD (▶▶) | |
| S806 | 1-771-349-21 | SWITCH, KEYBOARD (OPEN/CLOSE ☰) | |
| S807 | 1-771-349-21 | SWITCH, KEYBOARD (▷) | |
| S808 | 1-771-349-21 | SWITCH, KEYBOARD (■) | |
| S809 | 1-771-349-21 | SWITCH, KEYBOARD (■) | |
| S830 | 1-475-543-11 | ENCODER, ROTARY | (◀ AMS ▷), PUSH ENTER) |
| ***** | | | |
| 1-681-753-11 | HEADPHONE BOARD | ***** | |
| < CAPACITOR > | | | |
| C881 | 1-163-009-11 | CERAMIC CHIP | 0.001uF 10% 50V |
| C882 | 1-163-009-11 | CERAMIC CHIP | 0.001uF 10% 50V |
| C883 | 1-165-319-11 | CERAMIC CHIP | 0.1uF 50V |
| < CONNECTOR > | | | |
| * CN881 | 1-568-941-11 | PIN, CONNECTOR 3P | |
| < JACK > | | | |
| J881 | 1-770-307-11 | JACK (LARGE TYPE) (PHONES) | |
| < COIL/NOISE FILTER > | | | |
| L881 | 1-414-512-21 | INDUCTOR | 6.8uH |
| L882 | 1-414-512-21 | INDUCTOR | 6.8uH |
| L883 | 1-414-512-21 | INDUCTOR | 6.8uH |
| L884 | 1-424-122-11 | FILTER, NOISE | |
| L885 | 1-424-122-11 | FILTER, NOISE | |
| L886 | 1-424-122-11 | FILTER, NOISE | |

| Ref. No. | Part No. | Description | Remark |
|-----------------------|-------------------------------|--------------------------------------|---------------|
| < VARIABLE RESISTOR > | | | |
| RV881 | 1-227-185-11 | RES, VAR, CARBON 1K/1K (PHONE LEVEL) | |
| ***** | | | |
| A-4726-124-A | KEY BOARD, COMPLETE (US, CND) | | |
| A-4726-138-A | KEY BOARD, COMPLETE (UK) | | |
| A-4726-145-A | KEY BOARD, COMPLETE (AEP) | ***** | |
| < CONNECTOR > | | | |
| * CN812 | 1-568-942-11 | PIN, CONNECTOR 4P | |
| < RESISTOR > | | | |
| R813 | 1-216-065-00 | RES-CHIP | 4.7K 5% 1/10W |
| R814 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| R822 | 1-216-061-00 | RES-CHIP | 3.3K 5% 1/10W |
| R823 | 1-216-065-00 | RES-CHIP | 4.7K 5% 1/10W |
| R824 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| R825 | 1-216-077-00 | RES-CHIP | 15K 5% 1/10W |
| < SWITCH > | | | |
| S803 | 1-771-349-21 | SWITCH, KEYBOARD (MENU) | |
| S804 | 1-771-349-21 | SWITCH, KEYBOARD (SACD/CD) | |
| S805 | 1-771-349-21 | SWITCH, KEYBOARD (MULTI/2CH) | |
| S810 | 1-771-349-21 | SWITCH, KEYBOARD (TIME/TEXT) | |
| S811 | 1-771-349-21 | SWITCH, KEYBOARD (PLAY MODE) | |
| S812 | 1-771-349-21 | SWITCH, KEYBOARD (CHECK) | |
| S813 | 1-771-349-21 | SWITCH, KEYBOARD (CLEAR) | |
| S814 | 1-771-349-21 | SWITCH, KEYBOARD (REPEAT) | |
| ***** | | | |
| 1-645-721-11 | LOADING BOARD | ***** | |
| < CONNECTOR > | | | |
| * CN151 | 1-568-943-11 | PIN, CONNECTOR 5P | |
| < SWITCH > | | | |
| S151 | 1-572-086-11 | SWITCH, LEAF (LOADING OUT) | |
| S152 | 1-572-086-11 | SWITCH, LEAF (LOADING IN) | |
| ***** | | | |
| A-4727-020-A | MAIN BOARD, COMPLETE | ***** | |
| < CAPACITOR > | | | |
| C501 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V |
| C502 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10% 16V |
| C506 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 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 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10% 16V |
| C516 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10% 16V |
| C517 | 1-125-822-11 | TANTALUM | 10uF 20% 10V |
| C518 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10% 16V |
| C519 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V |
| C520 | 1-126-395-11 | ELECT | 22uF 20% 16V |

| Ref. No. | Part No. | Description | | | Remark | Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|--------------|----------|-----|--------|----------|--------------|--------------|----------|-----|--------|
| C521 | 1-162-965-11 | CERAMIC CHIP | 0.0015uF | 10% | 50V | | | | | | |
| C523 | 1-162-965-11 | CERAMIC CHIP | 0.0015uF | 10% | 50V | C707 | 1-162-921-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C525 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C708 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| | | | | | | C709 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C526 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C711 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C527 | 1-164-739-11 | CERAMIC CHIP | 560PF | 5% | 50V | C712 | 1-164-816-11 | CERAMIC CHIP | 220PF | 2% | 50V |
| C528 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | | | | | | |
| C529 | 1-164-739-11 | CERAMIC CHIP | 560PF | 5% | 50V | C713 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C530 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C714 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| | | | | | | C715 | 1-162-967-11 | CERAMIC CHIP | 0.0033uF | 10% | 50V |
| C531 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V | C716 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V |
| C532 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C717 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C533 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | | | | | | |
| C534 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C718 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C535 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C720 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| | | | | | | C721 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C536 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V | C722 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C539 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C723 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C541 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | |
| C542 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V | C724 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C543 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C725 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| | | | | | | C726 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C544 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C727 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C545 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C728 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C547 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | |
| C548 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C729 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C549 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C730 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| | | | | | | C731 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C550 | 1-115-412-11 | CERAMIC CHIP | 680PF | 5% | 25V | C740 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C551 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V | C741 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C553 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | | | | | | |
| C554 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C742 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C555 | 1-115-412-11 | CERAMIC CHIP | 680PF | 5% | 25V | C743 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| | | | | | | C744 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C556 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C745 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C558 | 1-115-412-11 | CERAMIC CHIP | 680PF | 5% | 25V | C746 | 1-115-467-11 | CERAMIC CHIP | 0.22uF | 10% | 10V |
| C559 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | |
| C560 | 1-162-965-11 | CERAMIC CHIP | 0.0015uF | 10% | 50V | C747 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C561 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C752 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| | | | | | | C760 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C562 | 1-115-412-11 | CERAMIC CHIP | 680PF | 5% | 25V | C761 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C563 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | C762 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C565 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | |
| C567 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C763 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C568 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C764 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| | | | | | | C765 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C569 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C766 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C570 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C767 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C572 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V | | | | | | |
| C577 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C768 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C579 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C769 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| | | | | | | C770 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C582 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C771 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V |
| C583 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C772 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C584 | 1-126-395-11 | ELECT | 22uF | 20% | 16V | | | | | | |
| C587 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C773 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V |
| C588 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C774 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| | | | | | | C775 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C589 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C776 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C590 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | C777 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C591 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | | | | | | |
| C592 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C778 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C701 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C779 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| | | | | | | C780 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C702 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C781 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V |
| C703 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V | C790 | 1-126-204-11 | ELECT CHIP | 47uF | 20% | 16V |
| C704 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V | | | | | | |
| C705 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C791 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C706 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C792 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |

MAIN

| Ref. No. | Part No. | Description | | Remark | Ref. No. | Part No. | Description | | Remark |
|----------|--------------|--------------|---------|--------|----------|------------------|--------------|------------------------------|-----------------|
| C793 | 1-126-246-11 | ELECT CHIP | 220uF | 20% | 4V | | | | |
| C794 | 1-126-246-11 | ELECT CHIP | 220uF | 20% | 4V | C911 | 1-125-822-11 | TANTALUM | 10uF 20% 10V |
| C795 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V | C912 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C796 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V | C913 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C797 | 1-126-246-11 | ELECT CHIP | 220uF | 20% | 4V | C914 | 1-125-822-11 | TANTALUM | 10uF 20% 10V |
| C798 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C915 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C799 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C916 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C800 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C917 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C802 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C918 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C803 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C920 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C804 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C921 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C807 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C922 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V |
| C808 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | C923 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V |
| C809 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C924 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C810 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C929 | 1-125-822-11 | TANTALUM | 10uF 20% 10V |
| C811 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C930 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V |
| C812 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C933 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V |
| C813 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C934 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C815 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C935 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V |
| C817 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C936 | 1-162-964-11 | CERAMIC CHIP | 0.001uF 10% 50V |
| C818 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C937 | 1-162-964-11 | CERAMIC CHIP | 0.001uF 10% 50V |
| C819 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C938 | 1-162-964-11 | CERAMIC CHIP | 0.001uF 10% 50V |
| C837 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C939 | 1-162-964-11 | CERAMIC CHIP | 0.001uF 10% 50V |
| C838 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C940 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| C839 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C941 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V |
| C840 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C942 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10% 16V |
| C841 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | C943 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V |
| C842 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C944 | 1-125-837-11 | CERAMIC CHIP | 1uF 10% 6.3V |
| C843 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C945 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10% 16V |
| C846 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V | C946 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10% 16V |
| C847 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C947 | 1-125-822-11 | TANTALUM | 10uF 20% 10V |
| C848 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C948 | 1-107-682-11 | CERAMIC CHIP | 1uF 10% 16V |
| C849 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C949 | 1-107-682-11 | CERAMIC CHIP | 1uF 10% 16V |
| C850 | 1-162-945-11 | CERAMIC CHIP | 22PF | 5% | 50V | C951 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10% 16V |
| C851 | 1-162-945-11 | CERAMIC CHIP | 22PF | 5% | 50V | C952 | 1-107-682-11 | CERAMIC CHIP | 1uF 10% 16V |
| C852 | 1-162-945-11 | CERAMIC CHIP | 22PF | 5% | 50V | C953 | 1-107-682-11 | CERAMIC CHIP | 1uF 10% 16V |
| C854 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C962 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C855 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | C963 | 1-107-826-11 | CERAMIC CHIP | 0.1uF 10% 16V |
| C856 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | < CONNECTOR > | | | |
| C857 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | CN701 | 1-778-691-11 | CONNECTOR, FFC/FPC | 19P |
| C858 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V | CN702 | 1-778-691-11 | CONNECTOR, FFC/FPC | 19P |
| C860 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | CN703 | 1-793-687-11 | PIN, CONNECTOR (1.5mm) (SMD) | 5P |
| C861 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | CN704 | 1-815-348-11 | PIN, CONNECTOR (PC BOARD) | 6P |
| C865 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | CN706 | 1-784-371-21 | CONNECTOR, FFC/FPC | 12P |
| C866 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | CN707 | 1-815-347-11 | PIN, CONNECTOR (PC BOARD) | 12P |
| C867 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | CN708 | 1-784-386-21 | CONNECTOR, FFC/FPC | 30P |
| C870 | 1-164-677-11 | CERAMIC CHIP | 0.033uF | 10% | 16V | CN709 | 1-793-687-11 | PIN, CONNECTOR (1.5mm) (SMD) | 5P |
| C871 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | < DIODE > | | | |
| C901 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | D903 | 8-719-049-09 | DIODE 1SS367-T3SONY | |
| C902 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | D904 | 8-719-049-09 | DIODE 1SS367-T3SONY | |
| C903 | 1-125-822-11 | TANTALUM | 10uF | 20% | 10V | < FERRITE BEAD > | | | |
| C904 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | FB701 | 1-469-835-21 | FERRITE | 0uH |
| C905 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | FB703 | 1-500-283-11 | FERRITE | 0uH |
| C906 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | FB704 | 1-500-283-11 | FERRITE | 0uH |
| C907 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | FB705 | 1-469-835-21 | FERRITE | 0uH |
| C908 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | | | | |
| C909 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | | | | |
| C910 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | | | | |

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------|--------|----------|--------------|----------------------------|--------|
| FB706 | 1-469-835-21 | FERRITE | 0uH | IC702 | 8-759-637-50 | IC TA48M025F (TE16L) | |
| FB707 | 1-500-283-11 | FERRITE | 0uH | IC703 | 8-759-701-40 | IC NJM3404AM-T1 | |
| FB708 | 1-500-283-11 | FERRITE | 0uH | IC706 | 8-759-543-83 | IC KM416V1204CT-L6 | |
| FB709 | 1-500-283-11 | FERRITE | 0uH | IC708 | 8-759-701-40 | IC NJM3404AM-T1 | |
| FB710 | 1-500-283-11 | FERRITE | 0uH | IC801 | 8-752-407-50 | IC CXD2752R | |
| FB751 | 1-500-283-11 | FERRITE | 0uH | IC802 | 8-759-549-25 | IC SN74LVU04APWR | |
| FB752 | 1-500-283-11 | FERRITE | 0uH | IC803 | 8-759-833-14 | IC CXD9647R | |
| FB753 | 1-500-283-11 | FERRITE | 0uH | IC808 | 8-759-573-19 | IC MSM56V16160D-10TS-K | |
| FB754 | 1-500-283-11 | FERRITE | 0uH | IC811 | 8-759-549-25 | IC SN74LVU04APWR | |
| FB755 | 1-500-283-11 | FERRITE | 0uH | IC812 | 8-759-549-15 | IC SN74LV245APWR | |
| FB756 | 1-500-283-11 | FERRITE | 0uH | IC813 | 8-759-549-15 | IC SN74LV245APWR | |
| FB757 | 1-500-283-11 | FERRITE | 0uH | IC814 | 8-759-649-33 | IC SN74AHCT1G08DCKR | |
| FB758 | 1-469-835-21 | FERRITE | 0uH | IC901 | 8-752-925-52 | IC CXP973064-210R | |
| FB759 | 1-469-835-21 | FERRITE | 0uH | IC902 | 8-752-392-03 | IC CXD1095BR | |
| FB760 | 1-469-835-21 | FERRITE | 0uH | IC903 | 8-759-487-04 | IC S-24C02AFJA-TB-01 | |
| FB761 | 1-469-835-21 | FERRITE | 0uH | IC905 | 8-759-636-64 | IC M51957BFP-600C | |
| FB801 | 1-500-283-11 | FERRITE | 0uH | | | < COIL > | |
| FB802 | 1-500-283-11 | FERRITE | 0uH | L801 | 1-410-369-11 | INDUCTOR CHIP 1uH | |
| FB803 | 1-500-283-11 | FERRITE | 0uH | L802 | 1-410-369-11 | INDUCTOR CHIP 1uH | |
| FB804 | 1-500-283-11 | FERRITE | 0uH | L803 | 1-410-369-11 | INDUCTOR CHIP 1uH | |
| | | < FILTER > | | | | < TRANSISTOR > | |
| FL501 | 1-234-177-21 | FILTER, CHIP EMI | | Q701 | 1-801-806-11 | TRANSISTOR DTC144EKA | |
| FL502 | 1-234-177-21 | FILTER, CHIP EMI | | Q702 | 8-729-901-47 | TRANSISTOR DTA143EKA | |
| FL701 | 1-234-177-21 | FILTER, CHIP EMI | | | | < RESISTOR > | |
| FL702 | 1-234-177-21 | FILTER, CHIP EMI | | R501 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| FL703 | 1-234-177-21 | FILTER, CHIP EMI | | R502 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| FL704 | 1-234-177-21 | FILTER, CHIP EMI | | R503 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | |
| FL705 | 1-234-177-21 | FILTER, CHIP EMI | | R505 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/16W | |
| FL706 | 1-234-177-21 | FILTER, CHIP EMI | | R506 | 1-216-829-11 | METAL CHIP 4.7K 5% 1/16W | |
| FL750 | 1-233-893-21 | FILTER, CHIP EMI | | R507 | 1-216-827-11 | METAL CHIP 3.3K 5% 1/16W | |
| FL751 | 1-234-177-21 | FILTER, CHIP EMI | | R508 | 1-216-825-11 | METAL CHIP 2.2K 5% 1/16W | |
| FL752 | 1-234-177-21 | FILTER, CHIP EMI | | R509 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| FL753 | 1-234-177-21 | FILTER, CHIP EMI | | R510 | 1-218-852-11 | RES-CHIP 1.6K 5% 1/16W | |
| FL754 | 1-234-177-21 | FILTER, CHIP EMI | | R511 | 1-216-827-11 | METAL CHIP 3.3K 5% 1/16W | |
| FL807 | 1-234-177-21 | FILTER, CHIP EMI | | R512 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | |
| FL808 | 1-234-177-21 | FILTER, CHIP EMI | | R513 | 1-216-797-11 | METAL CHIP 10 5% 1/16W | |
| FL810 | 1-234-177-21 | FILTER, CHIP EMI | | R515 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | |
| FL811 | 1-234-177-21 | FILTER, CHIP EMI | | R516 | 1-216-797-11 | METAL CHIP 10 5% 1/16W | |
| FL812 | 1-234-177-21 | FILTER, CHIP EMI | | R518 | 1-216-797-11 | METAL CHIP 10 5% 1/16W | |
| FL813 | 1-234-177-21 | FILTER, CHIP EMI | | R520 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | |
| FL901 | 1-234-177-21 | FILTER, CHIP EMI | | R522 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | |
| FL904 | 1-234-177-21 | FILTER, CHIP EMI | | R523 | 1-216-797-11 | METAL CHIP 10 5% 1/16W | |
| FL905 | 1-234-177-21 | FILTER, CHIP EMI | | R524 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| FL906 | 1-234-177-21 | FILTER, CHIP EMI | | R529 | 1-218-748-11 | METAL CHIP 220K 0.5% 1/16W | |
| FL907 | 1-234-177-21 | FILTER, CHIP EMI | | R530 | 1-218-748-11 | METAL CHIP 220K 0.5% 1/16W | |
| FL908 | 1-234-177-21 | FILTER, CHIP EMI | | R534 | 1-218-704-11 | METAL CHIP 3.3K 0.5% 1/16W | |
| FL909 | 1-234-177-21 | FILTER, CHIP EMI | | R538 | 1-218-740-11 | METAL CHIP 100K 0.5% 1/16W | |
| FL910 | 1-234-177-21 | FILTER, CHIP EMI | | R540 | 1-216-833-11 | METAL CHIP 10K 5% 1/16W | |
| | | < IC > | | R541 | 1-218-740-11 | METAL CHIP 100K 0.5% 1/16W | |
| IC502 | 8-759-567-26 | IC BA5983FP-E2 | | R544 | 1-218-740-11 | METAL CHIP 100K 0.5% 1/16W | |
| IC503 | 8-759-701-40 | IC NJM3404AM-T1 | | R545 | 1-218-740-11 | METAL CHIP 100K 0.5% 1/16W | |
| IC504 | 8-759-473-95 | IC uPC2905T-E1 | | R549 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | |
| IC509 | 8-752-408-73 | IC CXD3068Q | | R554 | 1-216-826-11 | METAL CHIP 2.7K 5% 1/16W | |
| IC512 | 8-759-490-71 | IC BA5912AFP-YE2 | | R555 | 1-218-704-11 | METAL CHIP 3.3K 0.5% 1/16W | |
| IC701 | 8-752-414-94 | IC CXD1882R-1 | | | | | |

SCD-XE670

MAIN

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------|-----------|----------|--------------|-------------|-----------|
| R556 | 1-216-826-11 | METAL CHIP | 2.7K 5% | R659 | 1-218-700-11 | METAL CHIP | 2.2K 0.5% |
| R558 | 1-216-841-11 | METAL CHIP | 47K 5% | R660 | 1-218-700-11 | METAL CHIP | 2.2K 0.5% |
| R559 | 1-216-797-11 | METAL CHIP | 10 5% | R661 | 1-216-296-11 | SHORT | 0 |
| R560 | 1-216-821-11 | METAL CHIP | 1K 5% | R701 | 1-218-748-11 | METAL CHIP | 220K 0.5% |
| R561 | 1-216-821-11 | METAL CHIP | 1K 5% | R702 | 1-218-740-11 | METAL CHIP | 100K 0.5% |
| R562 | 1-216-821-11 | METAL CHIP | 1K 5% | R703 | 1-218-740-11 | METAL CHIP | 100K 0.5% |
| R563 | 1-216-797-11 | METAL CHIP | 10 5% | R704 | 1-218-748-11 | METAL CHIP | 220K 0.5% |
| R565 | 1-216-833-11 | METAL CHIP | 10K 5% | R705 | 1-218-740-11 | METAL CHIP | 100K 0.5% |
| R568 | 1-216-833-11 | METAL CHIP | 10K 5% | R706 | 1-218-740-11 | METAL CHIP | 100K 0.5% |
| R572 | 1-216-797-11 | METAL CHIP | 10 5% | R707 | 1-218-668-11 | METAL CHIP | 100 0.5% |
| R573 | 1-216-797-11 | METAL CHIP | 10 5% | R708 | 1-216-857-11 | METAL CHIP | 1M 5% |
| R576 | 1-216-864-11 | METAL CHIP | 0 5% | R709 | 1-218-736-11 | METAL CHIP | 68K 0.5% |
| R577 | 1-216-864-11 | METAL CHIP | 0 5% | R710 | 1-218-716-11 | METAL CHIP | 10K 0.5% |
| R578 | 1-216-864-11 | METAL CHIP | 0 5% | R711 | 1-218-700-11 | METAL CHIP | 2.2K 0.5% |
| R581 | 1-216-833-11 | METAL CHIP | 10K 5% | R712 | 1-218-716-11 | METAL CHIP | 10K 0.5% |
| R582 | 1-216-833-11 | METAL CHIP | 10K 5% | R713 | 1-218-716-11 | METAL CHIP | 10K 0.5% |
| R584 | 1-218-728-11 | METAL CHIP | 33K 0.5% | R714 | 1-218-716-11 | METAL CHIP | 10K 0.5% |
| R586 | 1-216-864-11 | METAL CHIP | 0 5% | R716 | 1-218-668-11 | METAL CHIP | 100 0.5% |
| R588 | 1-218-716-11 | METAL CHIP | 10K 0.5% | R717 | 1-218-740-11 | METAL CHIP | 100K 0.5% |
| R589 | 1-218-728-11 | METAL CHIP | 33K 0.5% | R718 | 1-218-716-11 | METAL CHIP | 10K 0.5% |
| R590 | 1-218-716-11 | METAL CHIP | 10K 0.5% | R719 | 1-218-692-11 | METAL CHIP | 1K 0.5% |
| R591 | 1-218-702-11 | METAL CHIP | 2.7K 0.5% | R720 | 1-216-821-11 | METAL CHIP | 1K 5% |
| R592 | 1-218-708-11 | METAL CHIP | 4.7K 0.5% | R721 | 1-218-728-11 | METAL CHIP | 33K 0.5% |
| R593 | 1-218-740-11 | METAL CHIP | 100K 0.5% | R724 | 1-218-692-11 | METAL CHIP | 1K 0.5% |
| R594 | 1-218-728-11 | METAL CHIP | 33K 0.5% | R725 | 1-216-824-11 | METAL CHIP | 1.8K 5% |
| R595 | 1-218-708-11 | METAL CHIP | 4.7K 0.5% | R726 | 1-218-740-11 | METAL CHIP | 100K 0.5% |
| R596 | 1-216-864-11 | METAL CHIP | 0 5% | R727 | 1-218-704-11 | METAL CHIP | 3.3K 0.5% |
| R597 | 1-218-716-11 | METAL CHIP | 10K 0.5% | R728 | 1-218-716-11 | METAL CHIP | 10K 0.5% |
| R598 | 1-216-864-11 | METAL CHIP | 0 5% | R729 | 1-216-864-11 | METAL CHIP | 0 5% |
| R599 | 1-218-702-11 | METAL CHIP | 2.7K 0.5% | R730 | 1-216-801-11 | METAL CHIP | 22 5% |
| R601 | 1-218-724-11 | METAL CHIP | 22K 0.5% | R731 | 1-216-801-11 | METAL CHIP | 22 5% |
| R602 | 1-218-708-11 | METAL CHIP | 4.7K 0.5% | R732 | 1-216-833-11 | METAL CHIP | 10K 5% |
| R603 | 1-218-704-11 | METAL CHIP | 3.3K 0.5% | R733 | 1-216-833-11 | METAL CHIP | 10K 5% |
| R604 | 1-218-692-11 | METAL CHIP | 1K 0.5% | R734 | 1-216-833-11 | METAL CHIP | 10K 5% |
| R606 | 1-216-831-11 | METAL CHIP | 6.8K 5% | R735 | 1-216-833-11 | METAL CHIP | 10K 5% |
| R607 | 1-218-708-11 | METAL CHIP | 4.7K 0.5% | R736 | 1-216-833-11 | METAL CHIP | 10K 5% |
| R608 | 1-218-716-11 | METAL CHIP | 10K 0.5% | R737 | 1-216-833-11 | METAL CHIP | 10K 5% |
| R611 | 1-218-724-11 | METAL CHIP | 22K 0.5% | R738 | 1-216-833-11 | METAL CHIP | 10K 5% |
| R613 | 1-216-857-11 | METAL CHIP | 1M 5% | R740 | 1-216-833-11 | METAL CHIP | 10K 5% |
| R617 | 1-216-857-11 | METAL CHIP | 1M 5% | R741 | 1-216-801-11 | METAL CHIP | 22 5% |
| R618 | 1-218-911-11 | METAL CHIP | 470K 0.5% | R742 | 1-216-801-11 | METAL CHIP | 22 5% |
| R619 | 1-216-864-11 | METAL CHIP | 0 5% | R743 | 1-216-801-11 | METAL CHIP | 22 5% |
| R621 | 1-216-864-11 | METAL CHIP | 0 5% | R744 | 1-216-801-11 | METAL CHIP | 22 5% |
| R625 | 1-216-815-11 | METAL CHIP | 330 5% | R745 | 1-216-841-11 | METAL CHIP | 47K 5% |
| R626 | 1-216-864-11 | METAL CHIP | 0 5% | R746 | 1-216-841-11 | METAL CHIP | 47K 5% |
| R627 | 1-216-864-11 | METAL CHIP | 0 5% | R750 | 1-216-833-11 | METAL CHIP | 10K 5% |
| R628 | 1-216-864-11 | METAL CHIP | 0 5% | R755 | 1-216-864-11 | METAL CHIP | 0 5% |
| R632 | 1-216-833-11 | METAL CHIP | 10K 5% | R756 | 1-216-864-11 | METAL CHIP | 0 5% |
| R634 | 1-216-831-11 | METAL CHIP | 6.8K 5% | R757 | 1-216-864-11 | METAL CHIP | 0 5% |
| R635 | 1-216-864-11 | METAL CHIP | 0 5% | R758 | 1-216-864-11 | METAL CHIP | 0 5% |
| R642 | 1-216-839-11 | METAL CHIP | 33K 5% | R759 | 1-216-864-11 | METAL CHIP | 0 5% |
| R644 | 1-216-797-11 | METAL CHIP | 10 5% | R761 | 1-218-700-11 | METAL CHIP | 2.2K 0.5% |
| R645 | 1-216-797-11 | METAL CHIP | 10 5% | R762 | 1-218-724-11 | METAL CHIP | 22K 0.5% |
| R654 | 1-216-821-11 | METAL CHIP | 1K 5% | R763 | 1-218-714-11 | METAL CHIP | 8.2K 0.5% |
| R655 | 1-216-821-11 | METAL CHIP | 1K 5% | R764 | 1-216-857-11 | METAL CHIP | 1M 5% |
| R656 | 1-216-821-11 | METAL CHIP | 1K 5% | R765 | 1-218-724-11 | METAL CHIP | 22K 0.5% |
| R657 | 1-218-700-11 | METAL CHIP | 2.2K 0.5% | R766 | 1-216-864-11 | METAL CHIP | 0 5% |
| R658 | 1-218-700-11 | METAL CHIP | 2.2K 0.5% | | | | |

| Ref. No. | Part No. | Description | | | Remark | Ref. No. | Part No. | Description | | | Remark |
|----------|--------------|-------------|------|------|--------|----------|--------------|-------------|------|------|--------|
| R767 | 1-218-732-11 | METAL CHIP | 47K | 0.5% | 1/16W | R883 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R768 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | R884 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R769 | 1-218-700-11 | METAL CHIP | 2.2K | 0.5% | 1/16W | | | | | | |
| R770 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R885 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R772 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W | R886 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| | | | | | | R887 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R776 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R888 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R777 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R889 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R778 | 1-218-740-11 | METAL CHIP | 100K | 0.5% | 1/16W | | | | | | |
| R780 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R890 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W |
| R781 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R891 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W |
| | | | | | | R892 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W |
| R800 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W | R893 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W |
| R801 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R894 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W |
| R803 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | | | | | | |
| R804 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | R900 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R805 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | R901 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W |
| | | | | | | R902 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W |
| R806 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | R903 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W |
| R807 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | R904 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W |
| R808 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/16W | | | | | | |
| R809 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | R905 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W |
| R810 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R906 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W |
| | | | | | | R907 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W |
| R811 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R908 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W |
| R820 | 1-218-713-11 | METAL CHIP | 7.5K | 0.5% | 1/16W | R910 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R821 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W | | | | | | |
| R822 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W | R912 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R824 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R913 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| | | | | | | R914 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W |
| R826 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W | R915 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R827 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | R916 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R828 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W | | | | | | |
| R829 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | R917 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R830 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W | R918 | 1-216-789-11 | METAL CHIP | 2.2 | 5% | 1/16W |
| | | | | | | R919 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W |
| R831 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/16W | R920 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R839 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W | R921 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R842 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | | | | | |
| R847 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W | R922 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W |
| R848 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W | R923 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W |
| | | | | | | R924 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W |
| R849 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W | R925 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R850 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W | R926 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R851 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | | | | | | |
| R852 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R927 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W |
| R853 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/16W | R928 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| | | | | | | R929 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R854 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/16W | R930 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R855 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/16W | R931 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R858 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/16W | | | | | | |
| R859 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/16W | R932 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R860 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/16W | R934 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| | | | | | | R935 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| R865 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R937 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W |
| R866 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R938 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/16W |
| R867 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | | | | | | |
| R870 | 1-218-716-11 | METAL CHIP | 10K | 0.5% | 1/16W | R939 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R871 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W | R940 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| | | | | | | R941 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R872 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W | R942 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R873 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W | R943 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R875 | 1-216-830-11 | METAL CHIP | 5.6K | 5% | 1/16W | | | | | | |
| R876 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W | R944 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R877 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | R945 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| | | | | | | R946 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R878 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | R947 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R881 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | R948 | 1-218-720-11 | METAL CHIP | 15K | 0.5% | 1/16W |
| R882 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W | | | | | | |

SCD-XE670

| | |
|------|-------|
| MAIN | POWER |
|------|-------|

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|-----------------|------------|
| R949 | 1-218-720-11 | METAL CHIP 15K | 0.5% 1/16W |
| R950 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R951 | 1-216-821-11 | METAL CHIP 1K | 5% 1/16W |
| R952 | 1-216-827-11 | METAL CHIP 3.3K | 5% 1/16W |
| R953 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R954 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R958 | 1-216-864-11 | METAL CHIP 0 | 5% 1/16W |
| R959 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R960 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R961 | 1-216-821-11 | METAL CHIP 1K | 5% 1/16W |
| R962 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R964 | 1-218-704-11 | METAL CHIP 3.3K | 0.5% 1/16W |
| R969 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R970 | 1-216-864-11 | METAL CHIP 0 | 5% 1/16W |
| R971 | 1-216-809-11 | METAL CHIP 100 | 5% 1/16W |
| R973 | 1-216-864-11 | METAL CHIP 0 | 5% 1/16W |
| R975 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R976 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R978 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R979 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R980 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R981 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R982 | 1-216-801-11 | METAL CHIP 22 | 5% 1/16W |
| R983 | 1-216-801-11 | METAL CHIP 22 | 5% 1/16W |
| R990 | 1-216-801-11 | METAL CHIP 22 | 5% 1/16W |
| R991 | 1-216-864-11 | METAL CHIP 0 | 5% 1/16W |
| R992 | 1-216-864-11 | METAL CHIP 0 | 5% 1/16W |
| R993 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R994 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R996 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R997 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R998 | 1-216-864-11 | METAL CHIP 0 | 5% 1/16W |
| R1000 | 1-216-801-11 | METAL CHIP 22 | 5% 1/16W |
| R1005 | 1-216-801-11 | METAL CHIP 22 | 5% 1/16W |
| R1006 | 1-216-801-11 | METAL CHIP 22 | 5% 1/16W |
| R1007 | 1-216-801-11 | METAL CHIP 22 | 5% 1/16W |
| R1008 | 1-216-801-11 | METAL CHIP 22 | 5% 1/16W |
| R1009 | 1-216-801-11 | METAL CHIP 22 | 5% 1/16W |
| R1010 | 1-216-801-11 | METAL CHIP 22 | 5% 1/16W |
| R1011 | 1-216-809-11 | METAL CHIP 100 | 5% 1/16W |
| R1012 | 1-216-809-11 | METAL CHIP 100 | 5% 1/16W |
| R1013 | 1-216-805-11 | METAL CHIP 47 | 5% 1/16W |
| R1014 | 1-216-809-11 | METAL CHIP 100 | 5% 1/16W |
| R1015 | 1-216-801-11 | METAL CHIP 22 | 5% 1/16W |
| R1018 | 1-216-801-11 | METAL CHIP 22 | 5% 1/16W |
| R1019 | 1-216-864-11 | METAL CHIP 0 | 5% 1/16W |
| R1020 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R1021 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R1022 | 1-216-832-11 | METAL CHIP 8.2K | 5% 1/16W |
| R1024 | 1-216-864-11 | METAL CHIP 0 | 5% 1/16W |
| R1025 | 1-216-864-11 | METAL CHIP 0 | 5% 1/16W |
| R1026 | 1-216-833-11 | METAL CHIP 10K | 5% 1/16W |
| R1027 | 1-216-843-11 | METAL CHIP 68K | 5% 1/16W |
| R1028 | 1-216-801-11 | METAL CHIP 22 | 5% 1/16W |
| R1029 | 1-216-832-11 | METAL CHIP 8.2K | 5% 1/16W |
| R1050 | 1-216-864-11 | METAL CHIP 0 | 5% 1/16W |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------------|---------------|
| | | < VIBRATOR > | |
| X901 | 1-781-945-21 | VIBRATOR, CERAMIC (20MHz) | |
| ***** | | | |
| | A-4726-118-A | POWER BOARD, COMPLETE (US, CND) | |
| | A-4726-132-A | POWER BOARD, COMPLETE (UK) | |
| | A-4726-139-A | POWER BOARD, COMPLETE (AEP) | |
| ***** | | | |
| * | 3-309-144-21 | HEAT SINK | |
| * | 4-931-401-01 | HEAT SINK, V.OUT | |
| | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S | |
| | 7-685-872-09 | SCREW +BVTT 3X8 (S) | |
| | | < CAPACITOR > | |
| C402 | 1-126-964-11 | ELECT 10uF | 20% 50V |
| C404 | 1-128-552-51 | ELECT 47uF | 20% 63V |
| C405 | 1-126-939-11 | ELECT 10000uF | 20% 16V |
| C406 | 1-137-366-11 | MYLAR 0.0022uF | 5% 50V |
| C407 | 1-137-150-11 | MYLAR 0.01uF | 5% 50V |
| C410 | 1-111-235-61 | ELECT 10000uF | 20% 25V |
| C411 | 1-126-939-11 | ELECT 10000uF | 20% 16V |
| C412 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V (US, CND) |
| C415 | 1-137-150-11 | MYLAR 0.01uF | 5% 50V |
| C416 | 1-137-150-11 | MYLAR 0.01uF | 5% 50V |
| C417 | 1-126-920-51 | ELECT 10000uF | 20% 6.3V |
| C419 | 1-126-919-11 | ELECT 6800uF | 20% 6.3V |
| C421 | 1-135-672-51 | ELECT 3300uF | 10V |
| C422 | 1-164-695-11 | CERAMIC CHIP 0.0022uF | 5% 50V |
| C423 | 1-164-695-11 | CERAMIC CHIP 0.0022uF | 5% 50V |
| C426 | 1-135-760-51 | ELECT 1000uF | 50V |
| C427 | 1-135-760-51 | ELECT 1000uF | 50V |
| C428 | 1-126-947-11 | ELECT 47uF | 20% 16V |
| C429 | 1-126-947-11 | ELECT 47uF | 20% 16V |
| C430 | 1-126-944-11 | ELECT 3300uF | 20% 25V |
| C431 | 1-126-944-11 | ELECT 3300uF | 20% 25V |
| C435 | 1-137-150-11 | MYLAR 0.01uF | 5% 50V |
| C436 | 1-137-150-11 | MYLAR 0.01uF | 5% 50V |
| C437 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C438 | 1-126-963-11 | ELECT 4.7uF | 20% 50V |
| C440 | 1-165-319-11 | CERAMIC CHIP 0.1uF | 50V |
| C445 | 1-164-695-11 | CERAMIC CHIP 0.0022uF | 5% 50V |
| C446 | 1-164-695-11 | CERAMIC CHIP 0.0022uF | 5% 50V |
| C447 | 1-164-695-11 | CERAMIC CHIP 0.0022uF | 5% 50V |
| C448 | 1-164-695-11 | CERAMIC CHIP 0.0022uF | 5% 50V |
| C460 | 1-104-665-11 | ELECT 100uF | 20% 25V |
| C461 | 1-163-033-00 | CERAMIC CHIP 0.022uF | 50V |
| C463 | 1-163-141-00 | CERAMIC CHIP 0.001uF | 5% 50V |
| C491 | 1-137-150-11 | MYLAR 0.01uF | 5% 50V |
| C492 | 1-137-150-11 | MYLAR 0.01uF | 5% 50V |
| C493 | 1-137-372-11 | MYLAR 0.022uF | 5% 50V |
| C494 | 1-137-372-11 | MYLAR 0.022uF | 5% 50V |
| | | < CONNECTOR > | |
| CN401 | 1-691-773-11 | PLUG (MICRO CONNECTOR) 11P | |
| * CN402 | 1-568-939-11 | PIN, CONNECTOR 12P | |
| * CN404 | 1-568-954-11 | PIN, CONNECTOR 5P | |

POWER **POWER SW** **PT** **RF**

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-----------------------------|--------|----------|--------------|---------------------------------------|--------|
| | | < DIODE > | | △ R407 | 1-212-877-11 | FUSIBLE 68 5% | 1/4W F |
| D401 | 8-719-977-22 | DIODE DTZ9.1B | | R412 | 1-216-295-11 | SHORT 0 | |
| D402 | 8-719-210-33 | DIODE EC10DS2 | | R413 | 1-216-073-00 | RES-CHIP 10K 5% | 1/10W |
| D403 | 8-719-977-81 | DIODE DTZ33B | | R414 | 1-216-073-00 | RES-CHIP 10K 5% | 1/10W |
| D406 | 8-719-210-33 | DIODE EC10DS2 | | R415 | 1-216-073-00 | RES-CHIP 10K 5% | 1/10W |
| D407 | 8-719-210-33 | DIODE EC10DS2 | | R416 | 1-216-069-00 | METAL CHIP 6.8K 5% | 1/10W |
| D408 | 8-719-210-33 | DIODE EC10DS2 | | R417 | 1-216-069-00 | METAL CHIP 6.8K 5% | 1/10W |
| D409 | 8-719-210-33 | DIODE EC10DS2 | | R418 | 1-216-298-00 | METAL CHIP 2.2 5% | 1/10W |
| D410 | 8-719-210-39 | DIODE EC10QS-04 | | R419 | 1-216-298-00 | METAL CHIP 2.2 5% | 1/10W |
| D411 | 8-719-210-39 | DIODE EC10QS-04 | | R421 | 1-216-073-00 | RES-CHIP 10K 5% | 1/10W |
| D412 | 8-719-210-39 | DIODE EC10QS-04 | | R422 | 1-216-073-00 | RES-CHIP 10K 5% | 1/10W |
| D413 | 8-719-210-39 | DIODE EC10QS-04 | | R423 | 1-216-073-00 | RES-CHIP 10K 5% | 1/10W |
| D418 | 8-719-210-39 | DIODE EC10QS-04 | | R440 | 1-216-057-00 | METAL CHIP 2.2K 5% | 1/10W |
| D419 | 8-719-210-39 | DIODE EC10QS-04 | | R441 | 1-216-057-00 | METAL CHIP 2.2K 5% | 1/10W |
| D420 | 8-719-210-39 | DIODE EC10QS-04 | | R442 | 1-216-057-00 | METAL CHIP 2.2K 5% | 1/10W |
| D421 | 8-719-210-39 | DIODE EC10QS-04 | | ***** | | | |
| D422 | 8-719-210-39 | DIODE EC10QS-04 | | | 1-681-751-11 | POWER SW BOARD | |
| D423 | 8-719-210-39 | DIODE EC10QS-04 | | | | ***** | |
| D424 | 8-719-210-39 | DIODE EC10QS-04 | | | | < CAPACITOR > | |
| D425 | 8-719-210-39 | DIODE EC10QS-04 | | | | | |
| D427 | 8-719-210-39 | DIODE EC10QS-04 | | △ C452 | 1-113-924-11 | CERAMIC 0.0047uF 20% | 250V |
| D428 | 8-719-210-39 | DIODE EC10QS-04 | | | | < CONNECTOR > | |
| D440 | 8-719-056-74 | DIODE UDZ-TE-17-3.0B | | | | | |
| D453 | 8-719-016-74 | DIODE 1SS352 | | CN453 | 1-564-321-00 | PIN, CONNECTOR 2P | |
| D454 | 8-719-016-74 | DIODE 1SS352 | | * CN454 | 1-580-230-31 | PIN, CONNECTOR (PC BOARD) 2P | |
| | | < GROUND TERMINAL > | | | | < SWITCH > | |
| ETP401 | 1-537-770-21 | TERMINAL BOARD, GROUND | | △ S451 | 1-762-581-11 | SWITCH, AC POWER PUSH (1 KEY) (POWER) | |
| | | < IC > | | ***** | | | |
| IC401 | 8-759-445-59 | IC BA033T | | | 1-681-752-11 | PT BOARD | |
| IC402 | 8-759-450-47 | IC BA05T | | | | ***** | |
| IC403 | 8-759-394-35 | IC BA12T | | | | < CAPACITOR > | |
| IC404 | 8-759-604-90 | IC M5F7907L | | | | | |
| IC405 | 8-759-604-86 | IC M5F7807L | | △ C451 | 1-113-924-11 | CERAMIC 0.0047uF 20% | 250V |
| IC406 | 8-759-231-53 | IC TA7805S | | | | < LEAD > | |
| | | < NOISE FILTER > | | CN452 | 1-690-123-41 | LEAD (WITH CONNECTOR) (2 CORE) | |
| L401 | 1-424-122-11 | FILTER, NOISE | | ***** | | | |
| L402 | 1-424-122-11 | FILTER, NOISE | | | A-4726-986-A | RF BOARD, COMPLETE | |
| L406 | 1-424-122-11 | FILTER, NOISE | | | | ***** | |
| L407 | 1-424-122-11 | FILTER, NOISE | | | | < CAPACITOR > | |
| L409 | 1-424-122-11 | FILTER, NOISE | | C001 | 1-164-676-11 | CERAMIC CHIP 2200PF 5% | 16V |
| L410 | 1-424-122-11 | FILTER, NOISE | | C002 | 1-164-676-11 | CERAMIC CHIP 2200PF 5% | 16V |
| | | < IC LINK > | | C003 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% | 16V |
| PS401 | 1-576-390-91 | LINK, IC (AEP, UK) | | C004 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| | | < TRANSISTOR > | | C006 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| Q402 | 8-729-041-38 | TRANSISTOR 2SB1241-Q-TV2 | | C007 | 1-117-370-11 | CERAMIC CHIP 10uF | 10V |
| | | < RESISTOR > | | C008 | 1-162-966-11 | CERAMIC CHIP 0.0022uF 10% | 50V |
| R401 | 1-216-085-00 | RES-CHIP 33K 5% | 1/10W | C009 | 1-162-966-11 | CERAMIC CHIP 0.0022uF 10% | 50V |
| R404 | 1-216-085-00 | RES-CHIP 33K 5% | 1/10W | C010 | 1-162-966-11 | CERAMIC CHIP 0.0022uF 10% | 50V |
| R405 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W | C011 | 1-162-966-11 | CERAMIC CHIP 0.0022uF 10% | 50V |
| R406 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W | C012 | 1-164-172-11 | CERAMIC CHIP 0.0056uF 10% | 25V |
| | | | | C013 | 1-164-172-11 | CERAMIC CHIP 0.0056uF 10% | 25V |
| | | | | C014 | 1-117-370-11 | CERAMIC CHIP 10uF | 10V |

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RF

| Ref. No. | Part No. | Description | Remark |
|---------------|--------------|------------------------------|------------|
| C015 | 1-117-370-11 | CERAMIC CHIP 10uF | 10V |
| 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 | 1-117-370-11 | CERAMIC CHIP 10uF | 10V |
| C020 | 1-162-919-11 | CERAMIC CHIP 22PF | 5% 50V |
| C021 | 1-162-919-11 | CERAMIC CHIP 22PF | 5% 50V |
| C022 | 1-115-416-11 | CERAMIC CHIP 0.001uF | 5% 25V |
| C023 | 1-126-206-11 | ELECT CHIP 100uF | 20% 6.3V |
| C024 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| 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 | 1-126-205-11 | ELECT CHIP 47uF | 20% 6.3V |
| C029 | 1-117-370-11 | CERAMIC CHIP 10uF | 10V |
| 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 |
| C034 | 1-117-370-11 | CERAMIC CHIP 10uF | 10V |
| C036 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C037 | 1-115-416-11 | CERAMIC CHIP 0.001uF | 5% 25V |
| 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 | 1-162-959-11 | CERAMIC CHIP 330PF | 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 |
| 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 | 1-126-205-11 | ELECT CHIP 47uF | 20% 6.3V |
| C060 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C064 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C090 | 1-115-156-11 | CERAMIC CHIP 1uF | 10V |
| C094 | 1-128-993-21 | ELECT CHIP 22uF | 20% 10V |
| C095 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| < CONNECTOR > | | | |
| CN002 | 1-770-161-21 | PIN, CONNECTOR (PC BOARD) 6P | |
| CN003 | 1-794-707-11 | CONNECTOR, FFC/FPC 25P | |
| CN005 | 1-815-346-11 | CONNECTOR, FFC/FPC 30P | |
| < DIODE > | | | |
| D001 | 8-719-016-74 | DIODE 1SS352 | |
| D002 | 8-719-016-74 | DIODE 1SS352 | |
| < IC > | | | |
| IC001 | 8-752-403-50 | IC CXD1881R | |
| IC004 | 8-759-058-45 | IC NJM3403AV | |
| < COIL > | | | |
| L001 | 1-412-031-11 | INDUCTOR CHIP 47uH | |

| Ref. No. | Part No. | Description | Remark |
|----------------|--------------|---------------------------------|------------|
| L002 | 1-412-031-11 | INDUCTOR CHIP 47uH | |
| L003 | 1-412-031-11 | INDUCTOR CHIP 47uH | |
| < TRANSISTOR > | | | |
| Q001 | 8-729-805-25 | TRANSISTOR 2SB1121-S | |
| Q002 | 8-729-805-25 | TRANSISTOR 2SB1121-S | |
| Q003 | 8-729-805-25 | TRANSISTOR 2SB1121-S | |
| Q005 | 8-729-027-59 | TRANSISTOR DTC144EKA-T146 | |
| < 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 |
| 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 |
| R029 | 1-216-841-11 | METAL CHIP 47K | 5% 1/16W |
| R035 | 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 |
| R065 | 1-218-716-11 | METAL CHIP 10K | 0.5% 1/16W |
| R066 | 1-218-716-11 | METAL CHIP 10K | 0.5% 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 |
| 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 |
| ***** | | | |
| MISCELLANEOUS | | | |
| ***** | | | |
| 3 | 1-757-772-12 | WIRE (FLAT TYPE) (30 CORE) | |
| △5 | 1-777-071-61 | CORD, POWER (AEP, UK) | |
| △5 | 1-783-531-31 | CORD, POWER (US, CND) | |
| 61 | 1-757-773-11 | WIRE (FLAT TYPE) (12 CORE) | |
| 103 | 1-543-798-11 | FILTER, CLAMP (FERRITE CORE) | |
| 105 | 1-775-172-11 | WIRE (FLAT TYPE) (19 CORE) | |
| △552 | 8-820-132-03 | OPTICAL PICK-UP KHM-230AAA/J1RP | |
| 557 | 1-757-097-11 | WIRE (FLAT TYPE) (25 CORE) | |
| M151 | A-4604-363-A | MOTOR (L) ASSY (LOADING) | |
| △T451 | 1-437-343-11 | TRANSFORMER, POWER (US, CND) | |
| △T451 | 1-437-344-11 | TRANSFORMER, POWER (AEP, UK) | |
| ***** | | | |

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| Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------------|--------|
| | | ***** HARDWARE LIST ***** | |
| #1 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S | |
| #2 | 7-685-645-79 | SCREW +BVTP 3X6 TYPE2 N-S | |
| #5 | 7-621-775-10 | SCREW +B 2.6X4 | |

ACCESSORIES & PACKING MATERIALS

| | | | |
|---|--------------|---|--|
| | 1-476-598-11 | REMOTE COMMANDER (RM-SX700) | |
| | 1-559-533-11 | CORD, CONNECTION (RED AND WHITE AUDIO CONNECTING CORD) | |
| | 1-757-960-11 | CORD, CONNECTION (BLACK AUDIO CONNECTING CORD) | |
| △ | 1-770-019-11 | ADAPTOR, CONVERSION PLUG 3P (UK) | |
| | 4-228-696-01 | COVER, BATTERY (for RM-SX700) | |
| | 4-235-007-11 | MANUAL, INSTRUCTION (ENGLISH, FRENCH (US, CND) | |
| | 4-235-007-21 | MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH) (AEP, UK) | |
| | 4-235-007-31 | MANUAL, INSTRUCTION (DUTCH, POLISH, SWEDISH, ITALIAN) (AEP) | |
| | 4-235-007-41 | MANUAL, INSTRUCTION (PORTUGUESE) (AEP) | |
| | 4-235-007-51 | MANUAL, INSTRUCTION (DANISH, FINNISH) (AEP) | |
| | 4-235-007-61 | MANUAL, INSTRUCTION (RUSSIAN) (AEP) | |

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