

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.

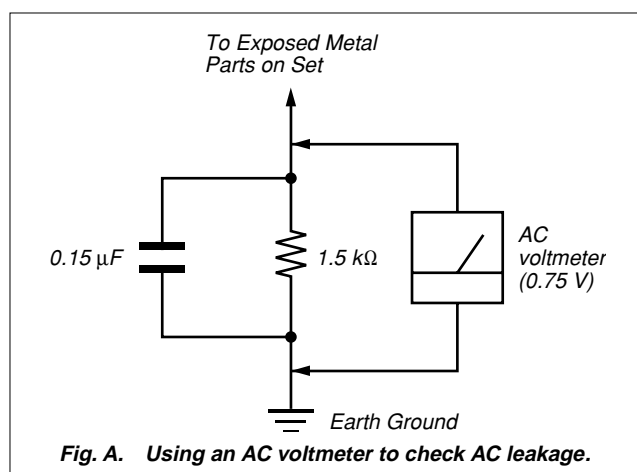
SAFETY CHECK-OUT

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 ABOECHUNG 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 FÄRLIG.
ADVARSEL : SYNLIG OG USYNLIG LASERSTRÅLING NÄR DEKSEL ÅPNES. UNDSK UDSÆTTELSE FOR STRÅLING.
FIGYELEM : A BUKKOLAT MEGBONTÁSOKOR LÁTHATÓ ES LÁTHATATLAN LÉZERSUGÁR LEHET KI A KÉSZÜLÉKNŐL. ÖVVEGELJEN 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.

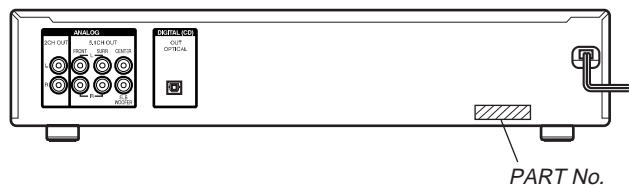
CLEANING OF OPTICAL PICK-UP LENS

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

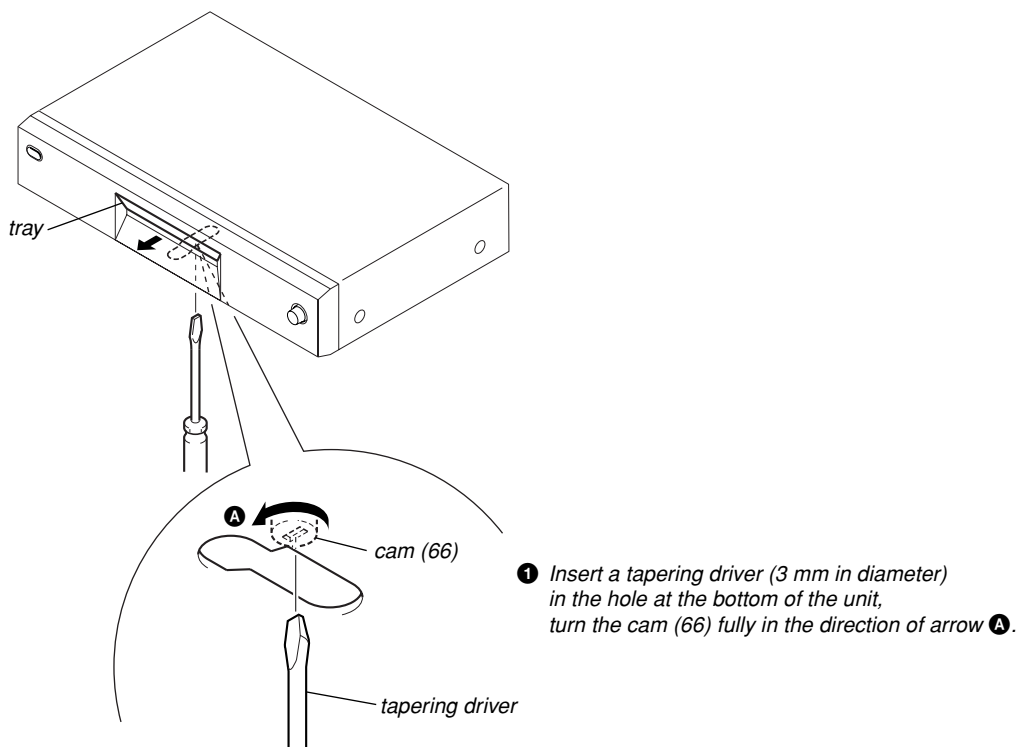
(2) SACD (single layer)

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)

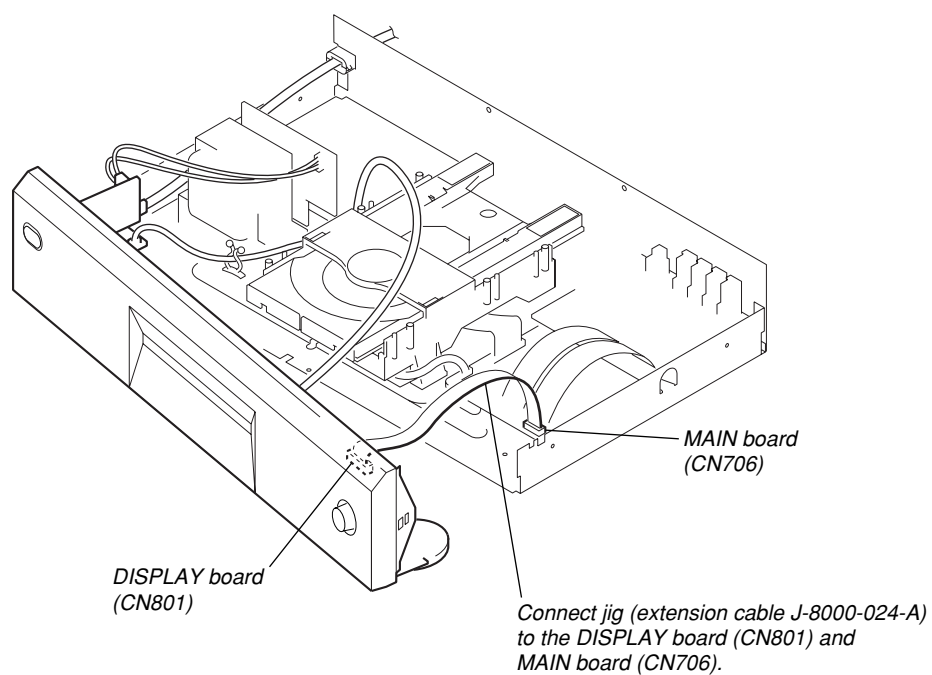
1. Sled reverse move (sled in)
2. Disc detect
3. IC setting for SACD
4. Servo error signal offset auto adjustment
5. Spindle kick for LD on
6. LD on
7. Focus search
8. Focus servo on (layer 0)
9. Spindle kick
10. Spindle servo on
11. E-F balance auto adjustment (layer 0)
12. Tracking & sled servo on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

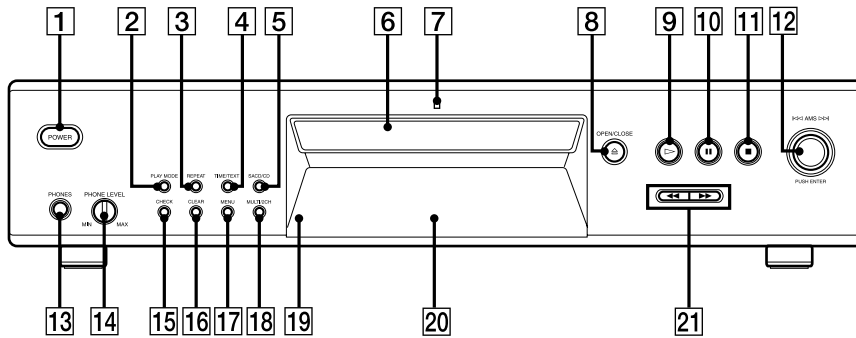
In checking the DISPLAY board, prepare jig (extension cable J-8000-024-A : 1.00 mm Pitch, 12 cores, Length 300 mm.)



**SECTION 2
GENERAL**

This section is extracted from instruction manual.

Front Panel



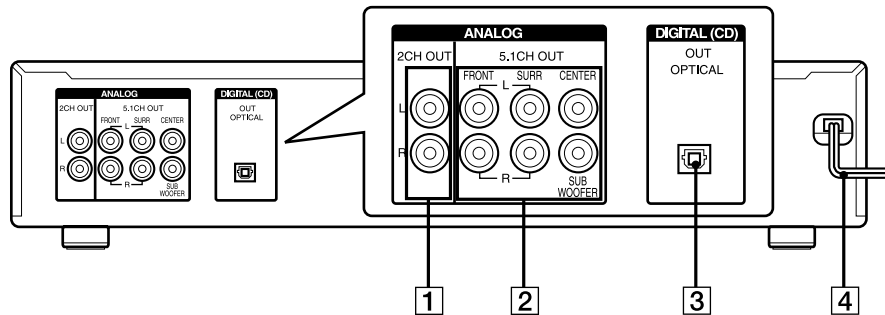
CHECK **15** (18)
 CLEAR **16** (18)
 Disc tray **6** (10)
 Display **20** (11)
 MENU **17** (10, 20)
 MULTI/2CH **18** (9, 11)
 Multi-Channel indicator **7**
 PHONE LEVEL **14** (25)

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

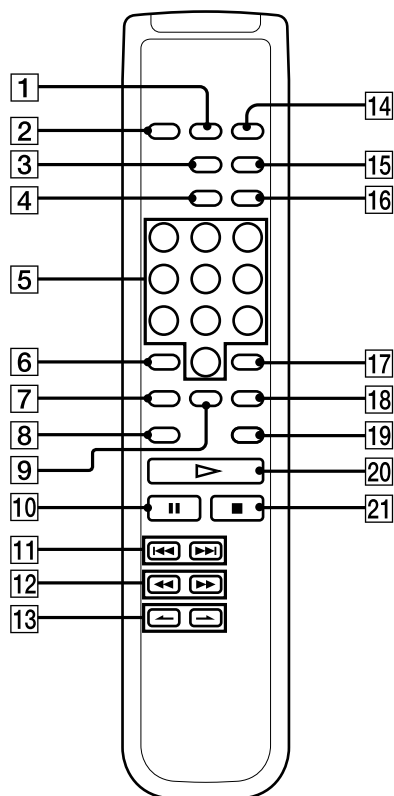
◀◀AMS▶▶ dial **12** (10, 11, 14, 15, 19, 20)
 ⏪ OPEN/CLOSE **8** (10, 18)
 ⏩ **9** (10, 15, 16, 17, 18)
 ⏸ **10** (11)
 ■ **11** (11, 16, 19)
 ⏮/▶▶ **21** (15)

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 **10** (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)

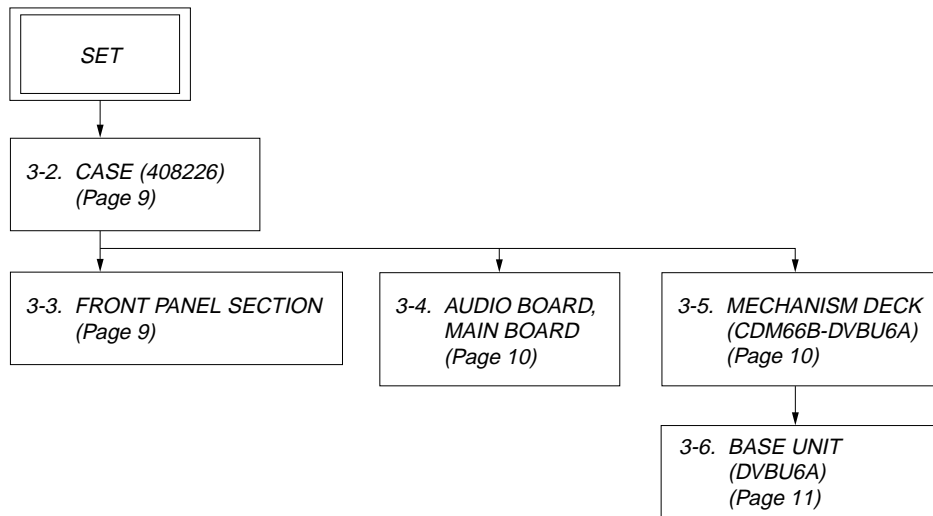
BUTTON DESCRIPTIONS

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

SECTION 3 DISASSEMBLY

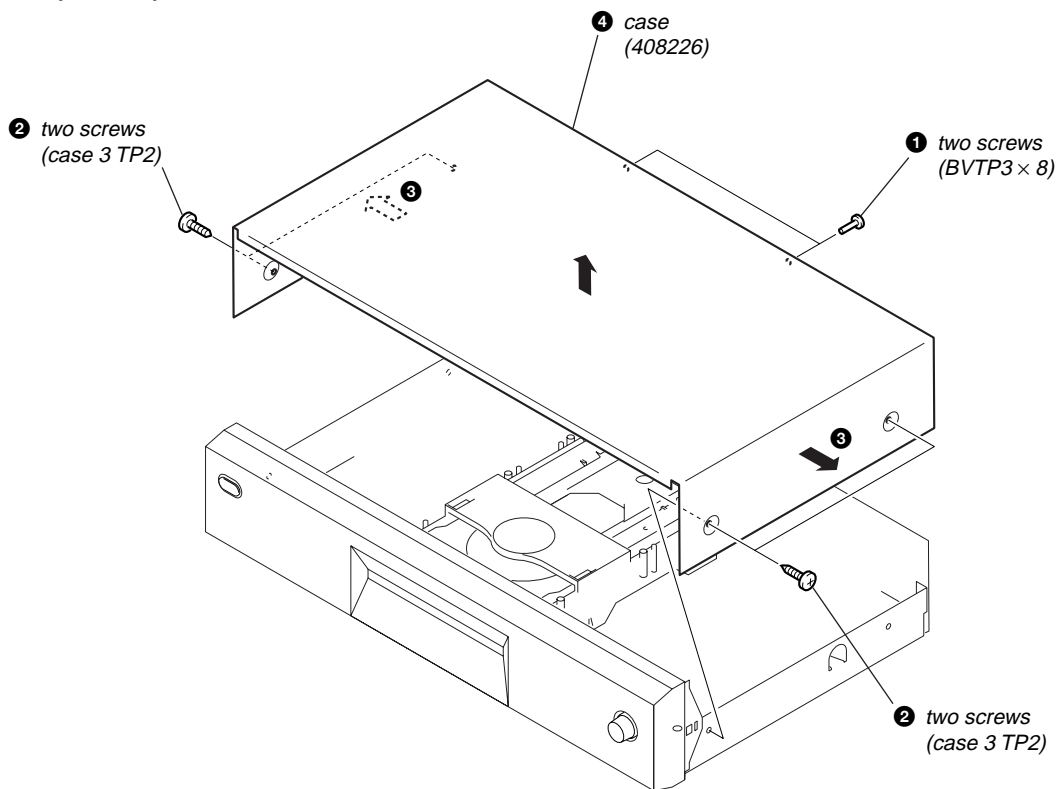
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

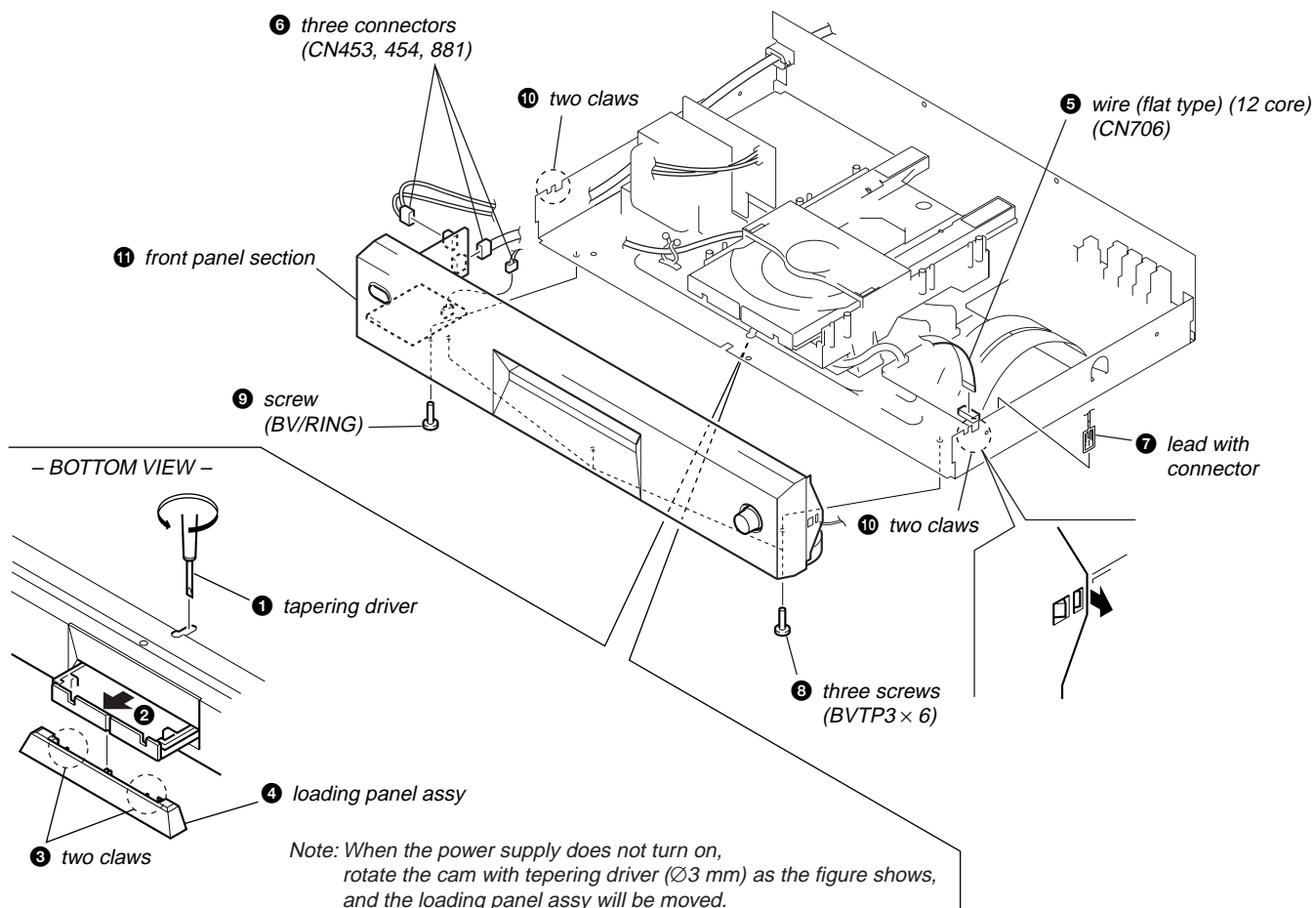


Note: Follow the disassembly procedure in the numerical order given.

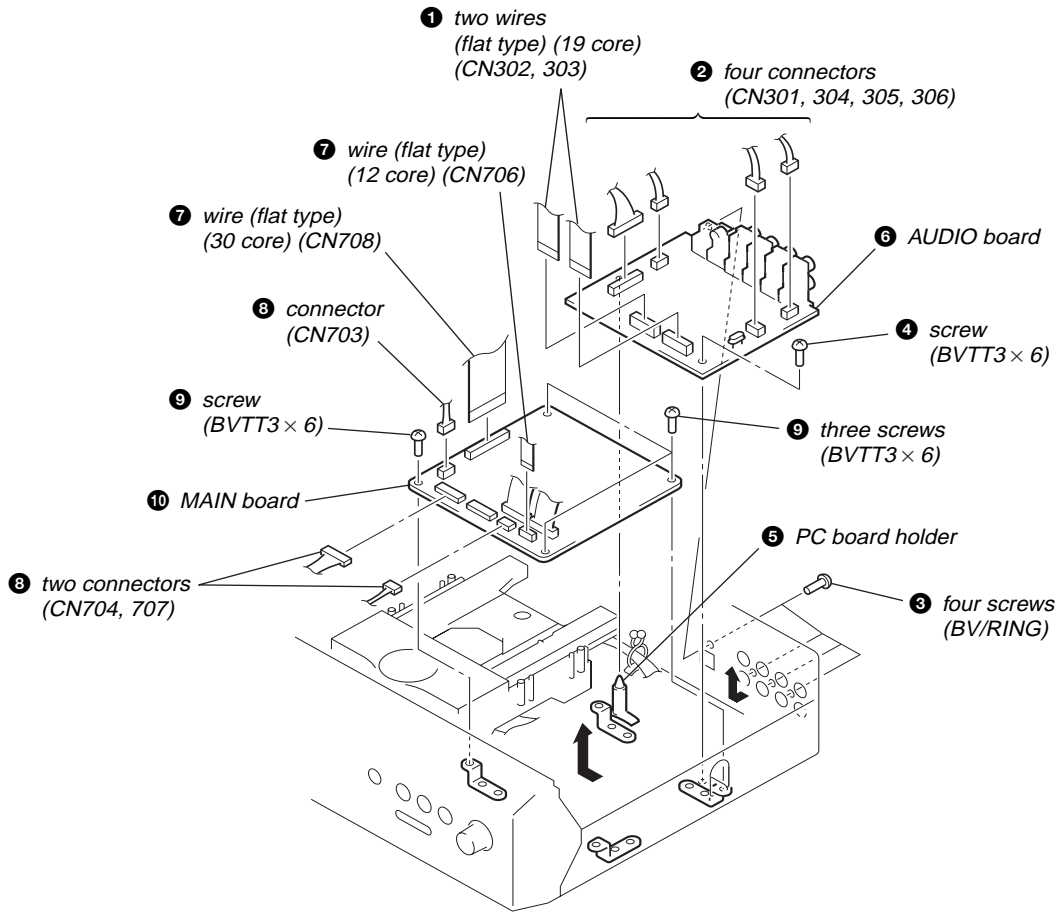
3-2. CASE (408226)



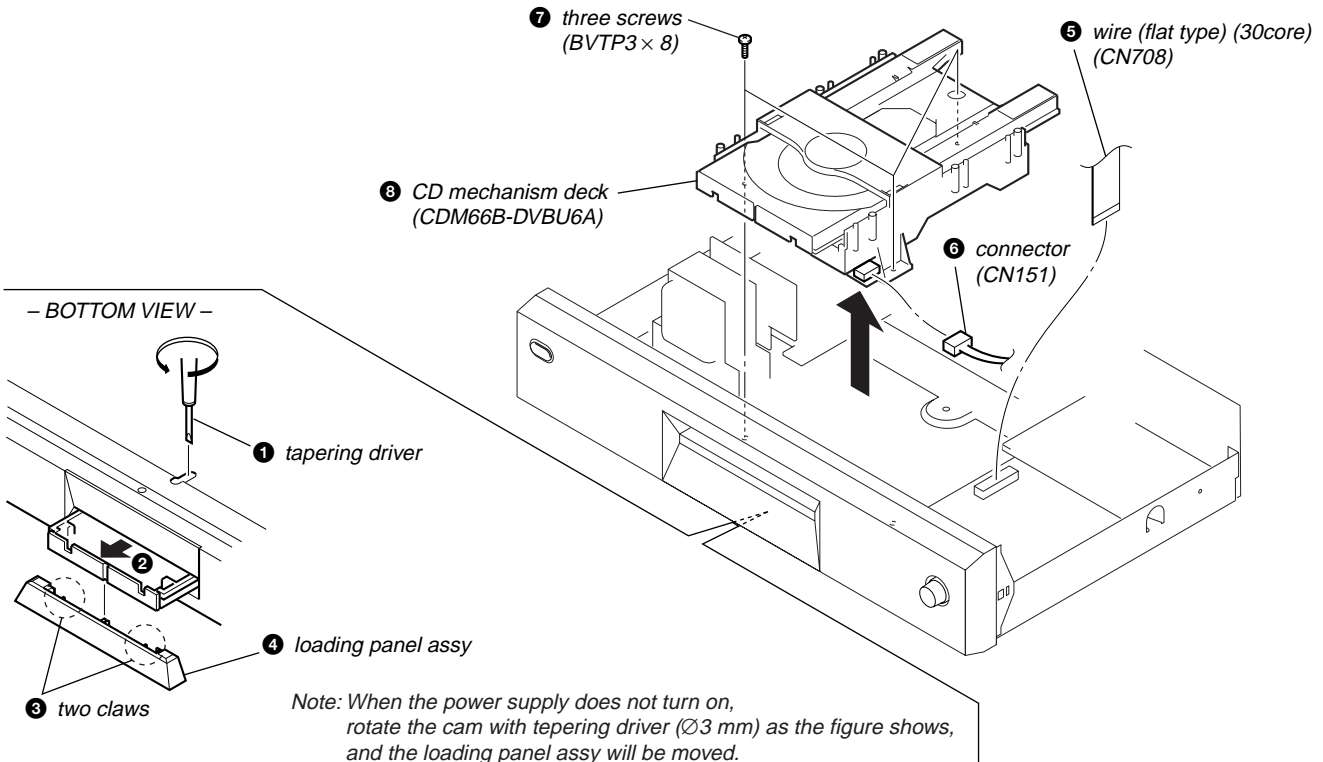
3-3. FRONT PANEL SECTION



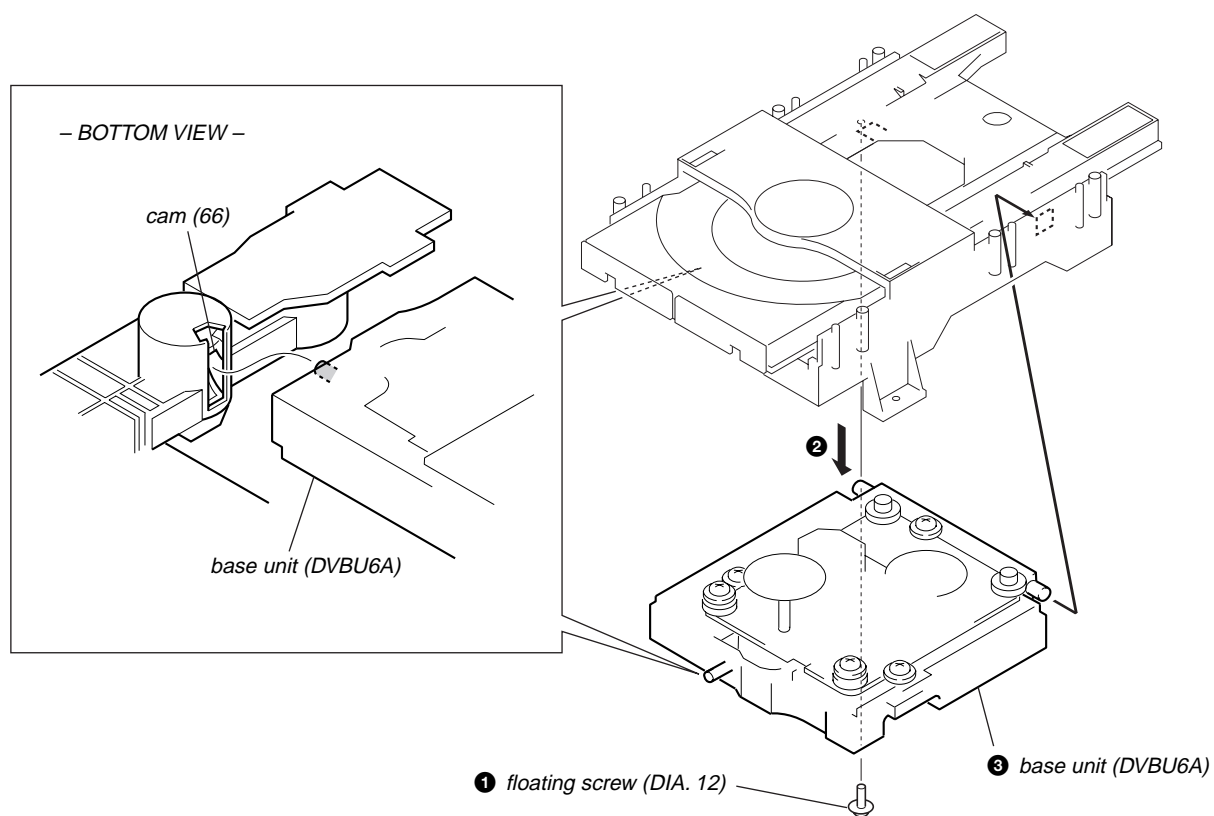
3-4. AUDIO BOARD, MAIN BOARD



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

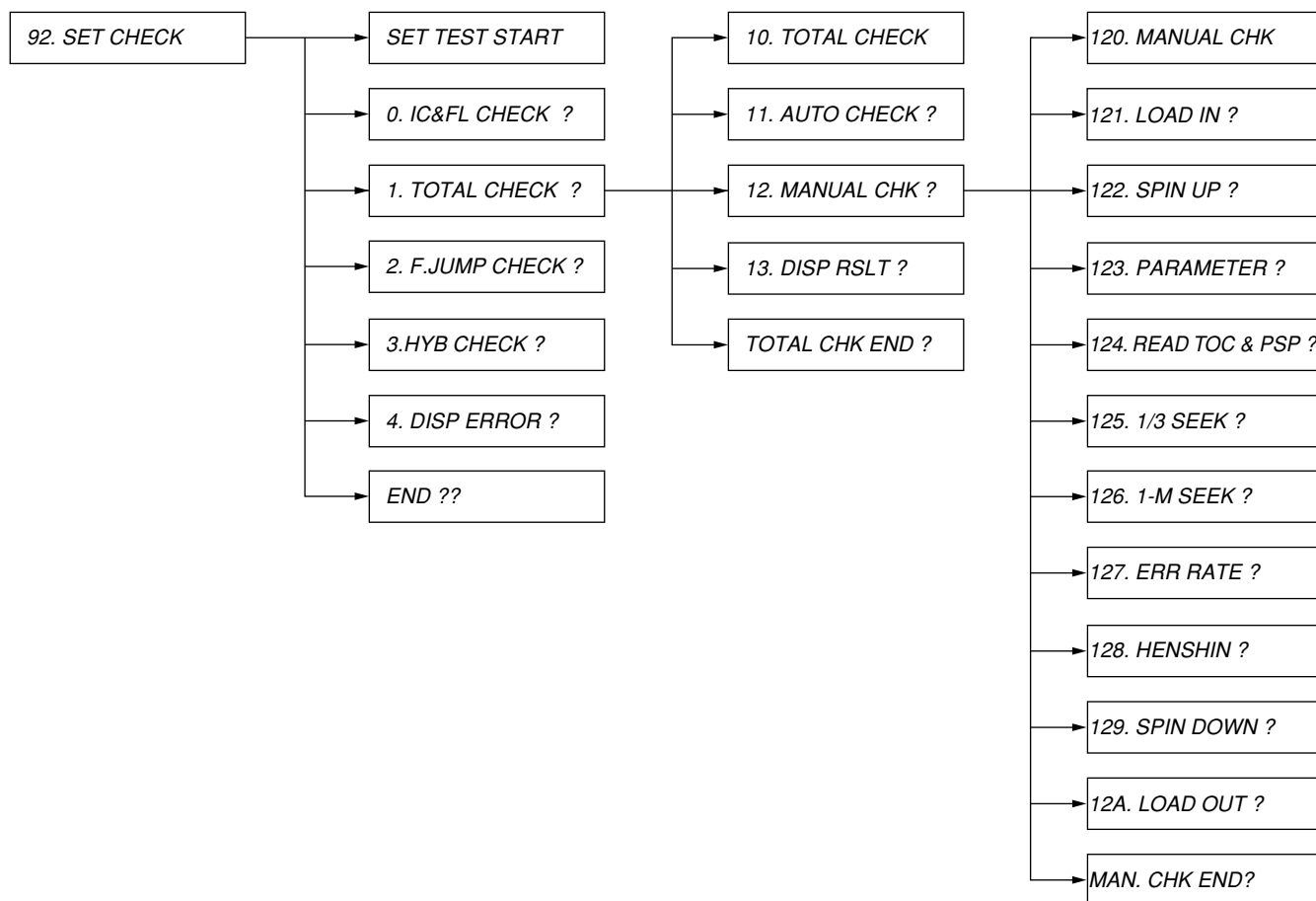
How to Apply Servo by Manual Operation

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 & PSPS?” 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.

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.

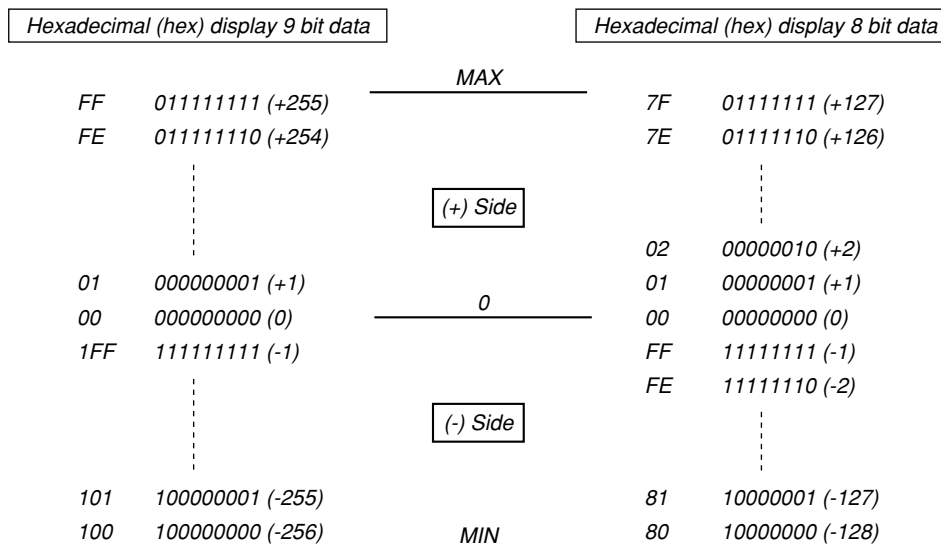
Check items	Specified value	
LOAD IN TIME (msec) : 2110	1300 to 2000	
SPIN UP TIME (msec) : 1993	1800 to 2450	
PF/VC/FE/TE AVRГ (ORG) : 8E, E, 1E2, 12	RF: 91-C8, VC: 1F8-8, FE: 1D1-30, TE: 198-75	
PF/VC/FE/TE AVRГ (ADJ) : 9D, E, 6, 2	RF: 91-AF, VC : 1F8-8, FE: 1EE-12, TE: 1EA-16	
PI/TRVS PP (ORG/ADJ) : 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		* Items are not used in the SATD-S5.
F) AVE/MIN/MAX (msec) : 926, 909, 938	AVE: 1150 msec or less, MAX: 1300 msec or less	
R) AVE/MIN/MAX (msec) : 919, 901, 937	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	AVE: 2250 msec or less, MAX: 2500 msec or less	
R) AVE/MIN/MAX (msec) : 1837, 1829, 1849	AVE: 2250 msec or less, MAX: 2500 msec or less	
ERROR RATE		
PO MAX/AVE FRAME : 0, 0	MAX: 0, AVE: 0	
PO MAX/AVE NUM : 480, 28	MAX: 1500 or less, AVE: 200 or less	
PI1 MAX/AVE FRAME : 0, 0	MAX: 0, AVE: 0	
PI1 MAX/AVE NUM : 320, 11	MAX: 1500 or less, AVE: 200 or less	
PI2 MAX/AVE FRAME : 0, 0	MAX: 0, AVE: 0	
PI2 MAX/AVE NUM : 41, 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	

(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.




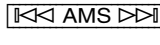
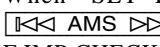
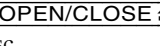
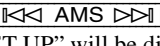
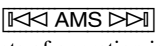
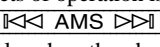
4-3. SACD (DL) DISC OPERATION CHECK

(• 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)

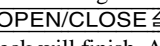
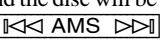
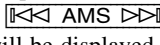
UP MAX: Max time required for layer 0 (most inward track)→layer 0 (most outward track)→focus jump (layer 0→1)

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.

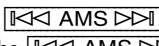
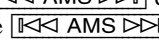
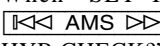
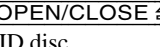
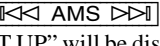
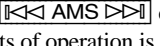
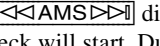
4-4. HYBRID DISC OPERATION CHECK

(• 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.

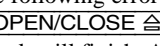
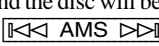
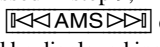
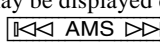
Checking Method:

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

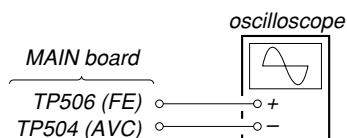
The BU electrical adjustment mode is used to check the S curve waveform, traverse waveform and RF waveform. After a disc is placed on the tray, each time the **[◀◀ AMS ▶▶]** dial is pressed, the check mode is switched in order for S curve waveform→traverse waveform→RF waveform.

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:



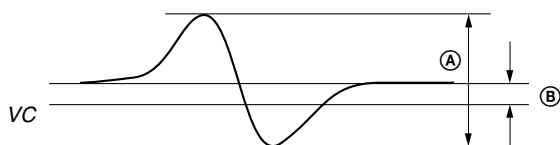
Checking Method:

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

Specified Value:

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

S curve waveform

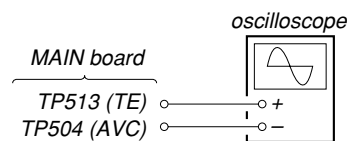


Note: For easier observation of this waveform, extend the sweep time and raise the brightness.

Checking and Connecting Location : See page 25.

Traverse Check

Connection:



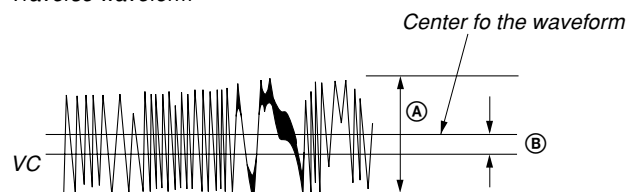
Checking Method:

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

Specified Value:

Disc	(A)	(B)
SATD-S5 or SATD-S4	0.9 to 1.4 Vp-p	-0.1 to +0.1V
PATD-012 or YEDS-18		

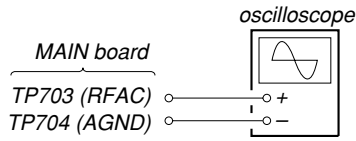
Traverse waveform



Checking and Connecting Location : See page 25.

RF Level Check

Connection:



Checking Method:

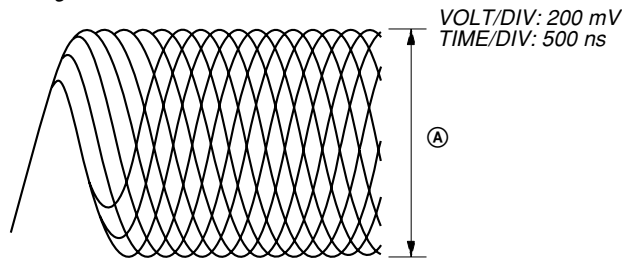
- Under the condition of traverse waveform check mode in step 4, press the [◀◀ AMS ▶▶] dial.
- Connect an oscilloscope to the TP703 (RFAC) and TP704 (AGND) on the MAIN board.
- After "WAIT" is displayed, the RF waveform check mode will become active and "PLAY 5th TRACK" will be displayed, and the 5th 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

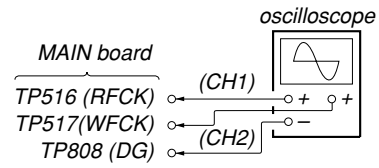


Note: Clear RF waveform refers to the waveform where \diamond shapes should be distinctively observed in the center.

Checking and Connecting Location : See page 25.

CLV Jitter Check (CD only)

Connection:



Checking Method:

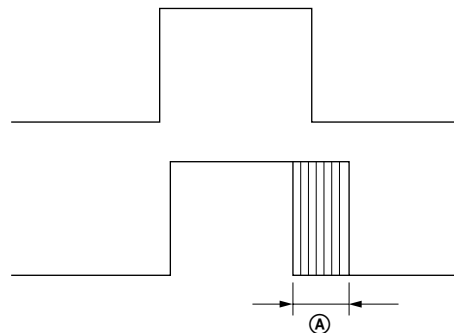
- Set the test mode.
- Connect an oscilloscope to the TP516 (RFCK) (CH1), TP517 (WFCK) (CH2) and TP808 (DG) (GND) on the MAIN board.
- Place the test disc PATD-012 or YEDS-18 on the tray, and close the tray.
- Rotate the [◀◀ AMS ▶▶] dial to select "61 DISC DETECT", and press the [◀◀ AMS ▶▶] dial to enter.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

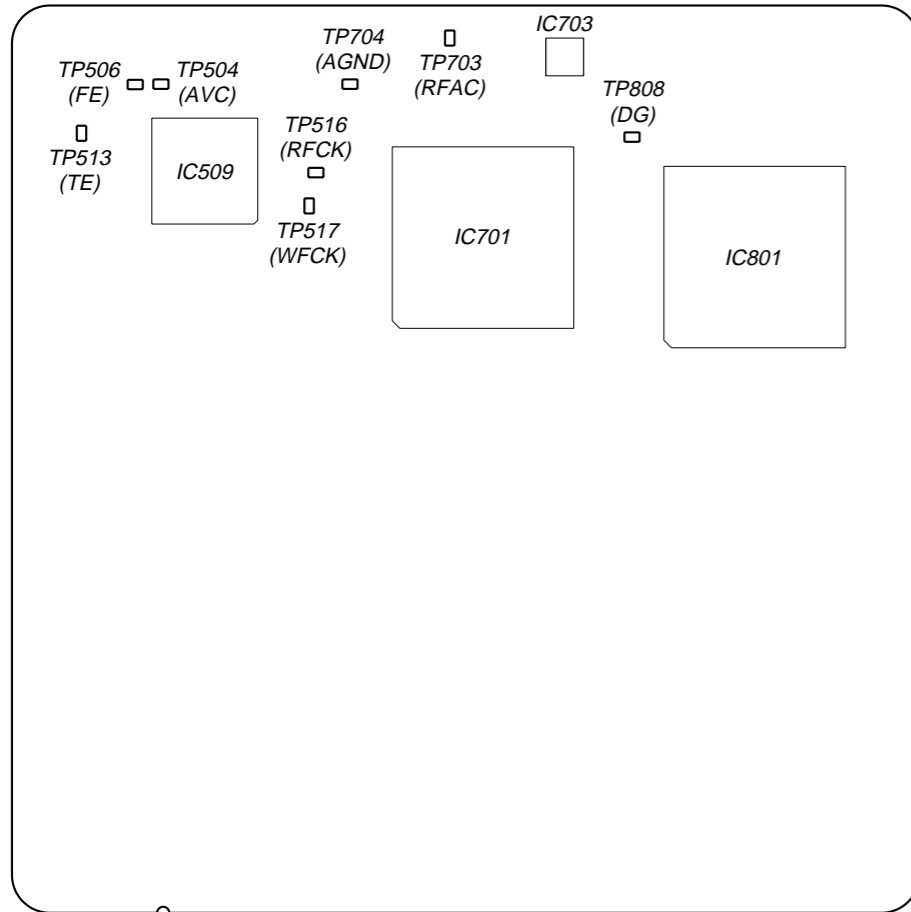
CLV jitter waveform



Checking and Connecting Location : See page 25.

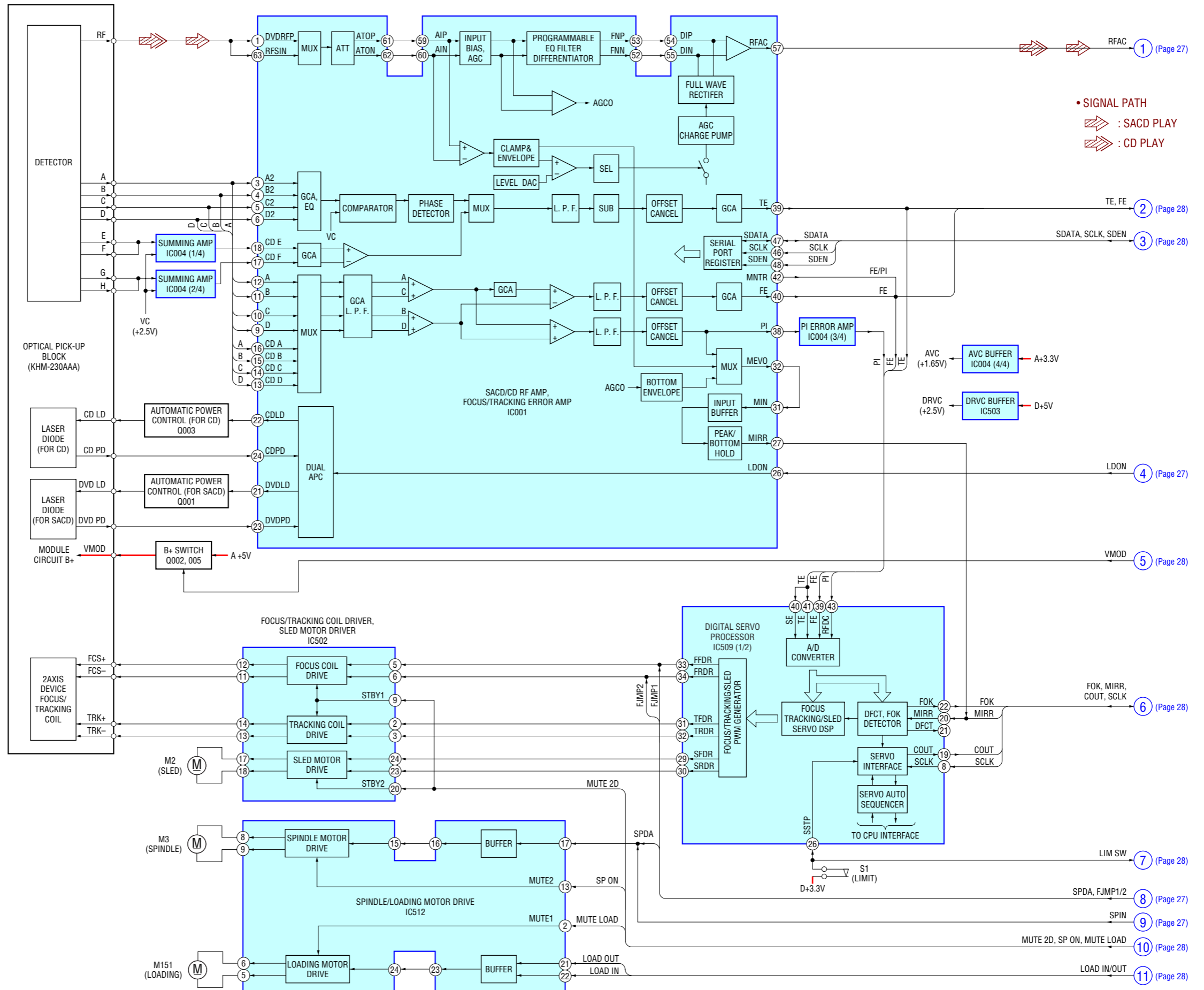
Checking and Connecting Location:

– MAIN Board (Component Side) –

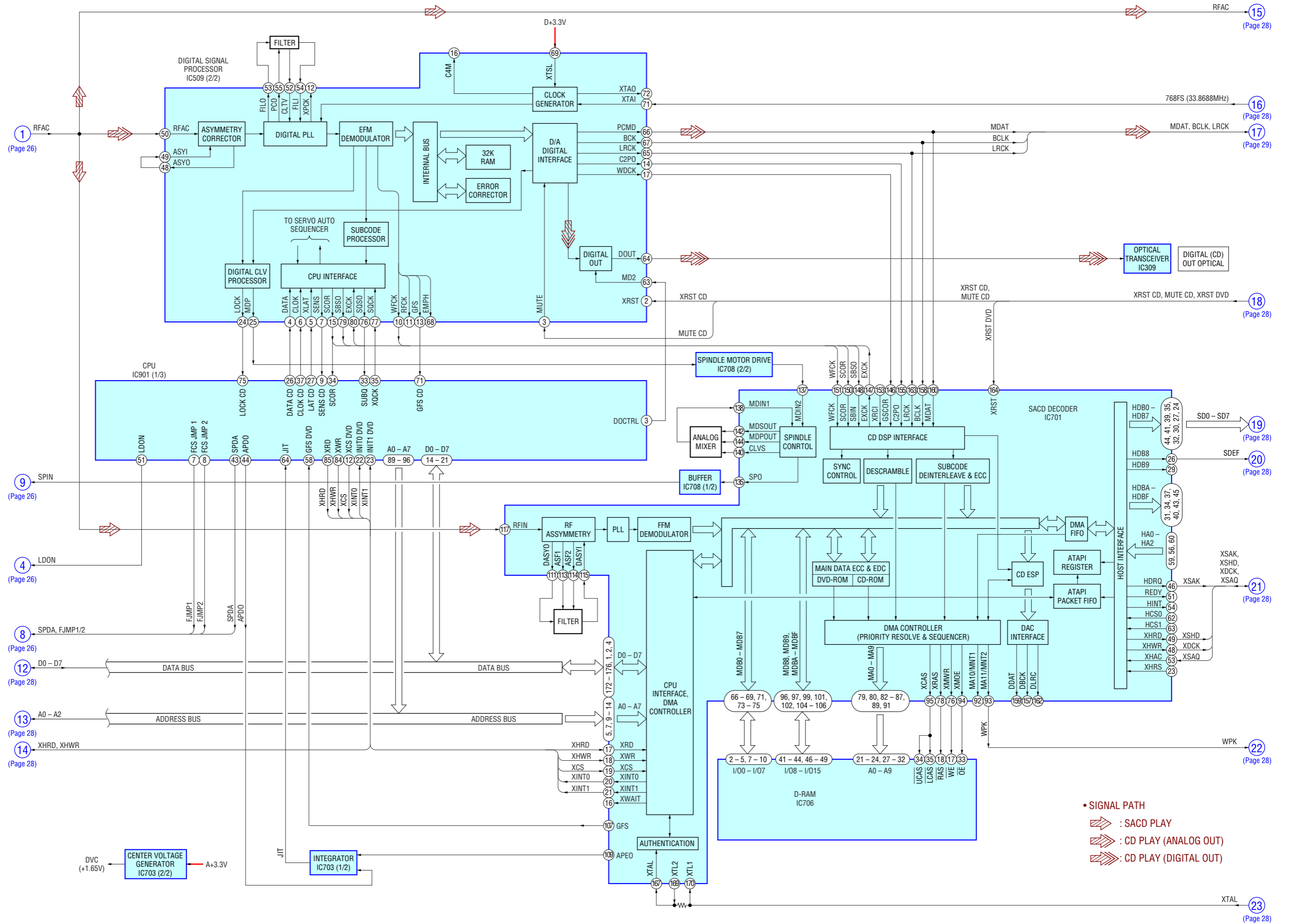


SECTION 5 DIAGRAMS

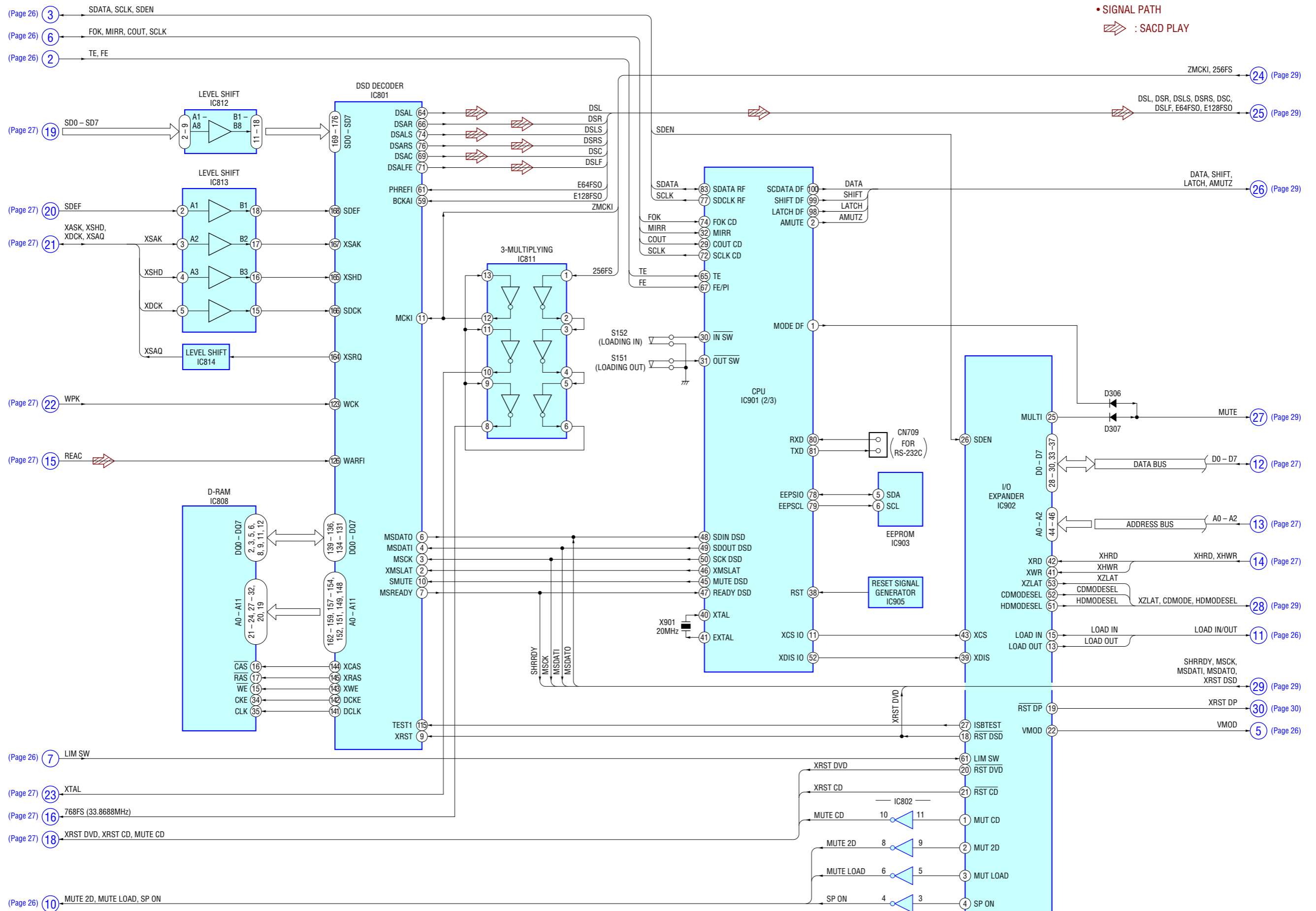
5-1. BLOCK DIAGRAM – RF/SERVO Section –



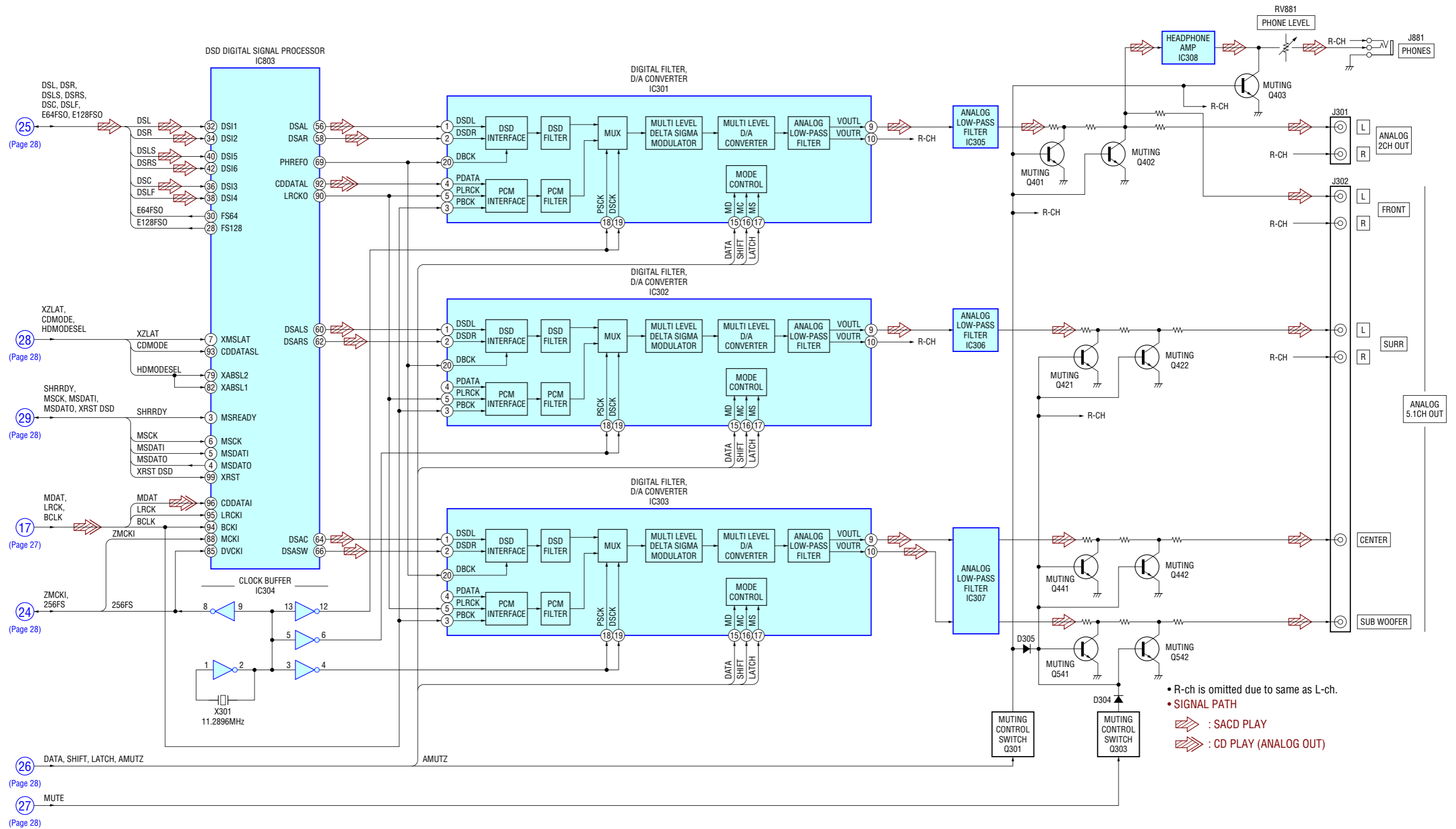
5-2. BLOCK DIAGRAM – SERVO Section –



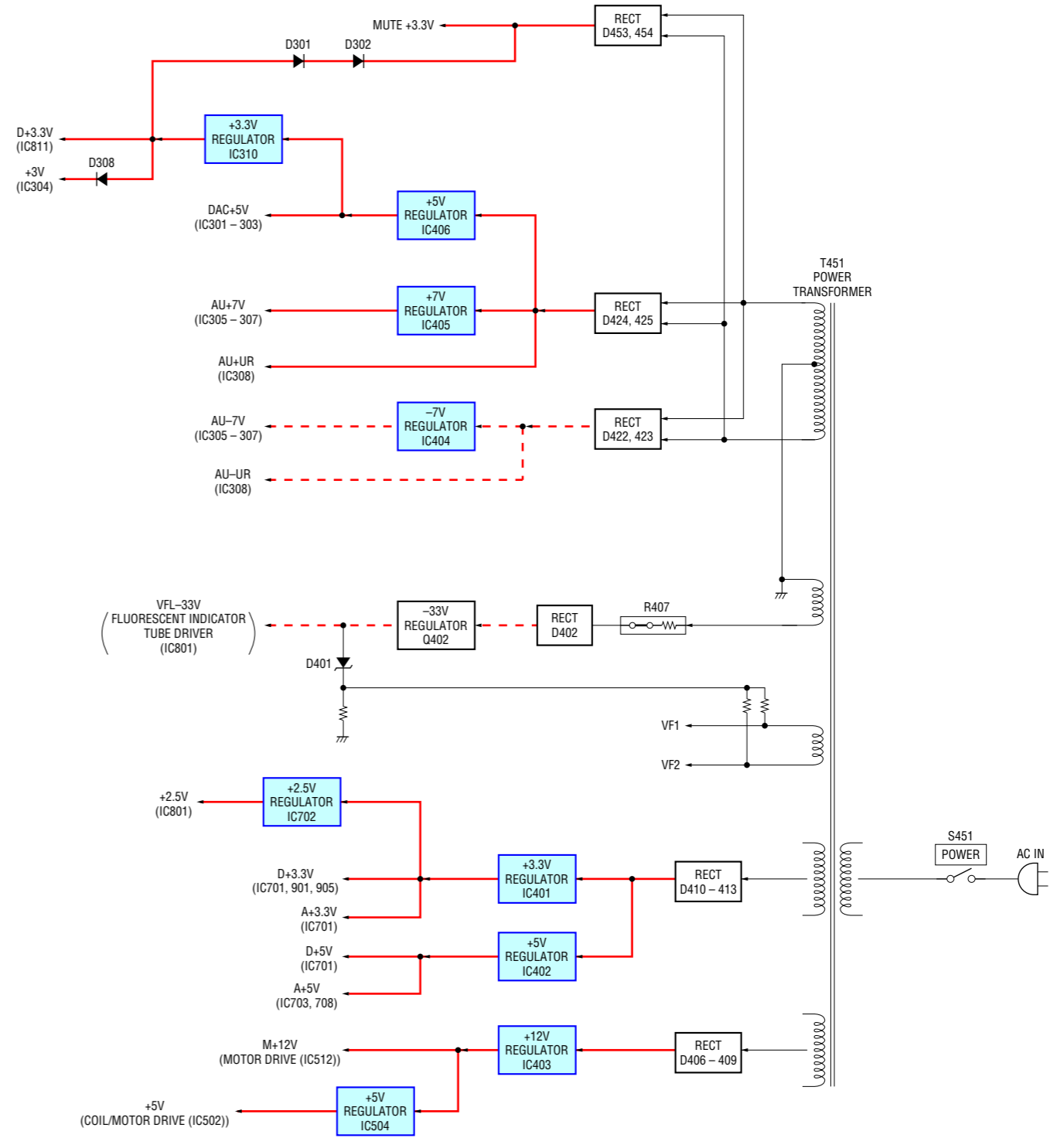
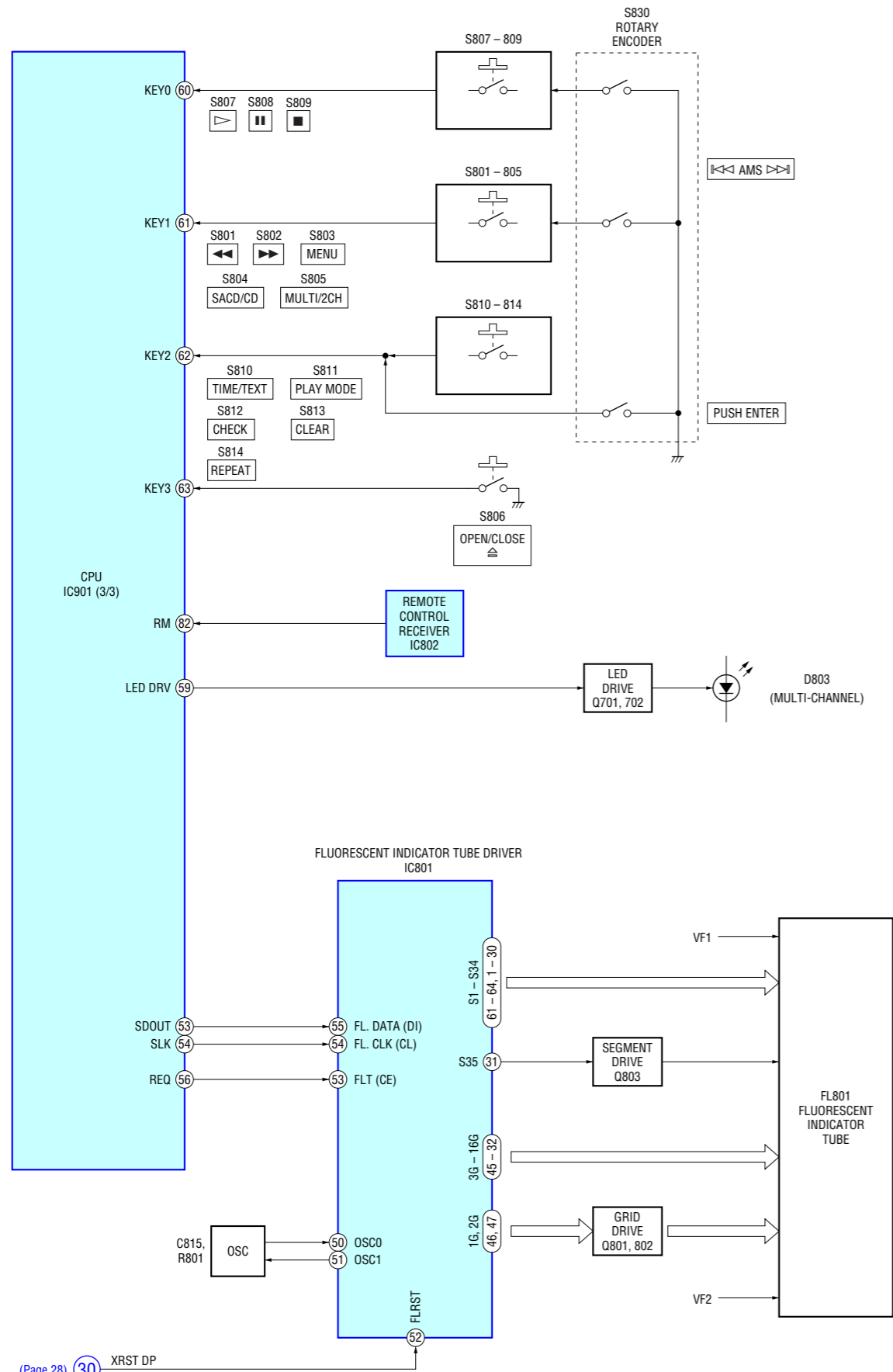
5-3. BLOCK DIAGRAM – MAIN Section –



5-4. BLOCK DIAGRAM – AUDIO Section –



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



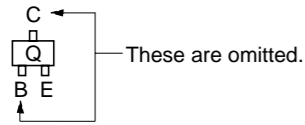
5-6. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

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



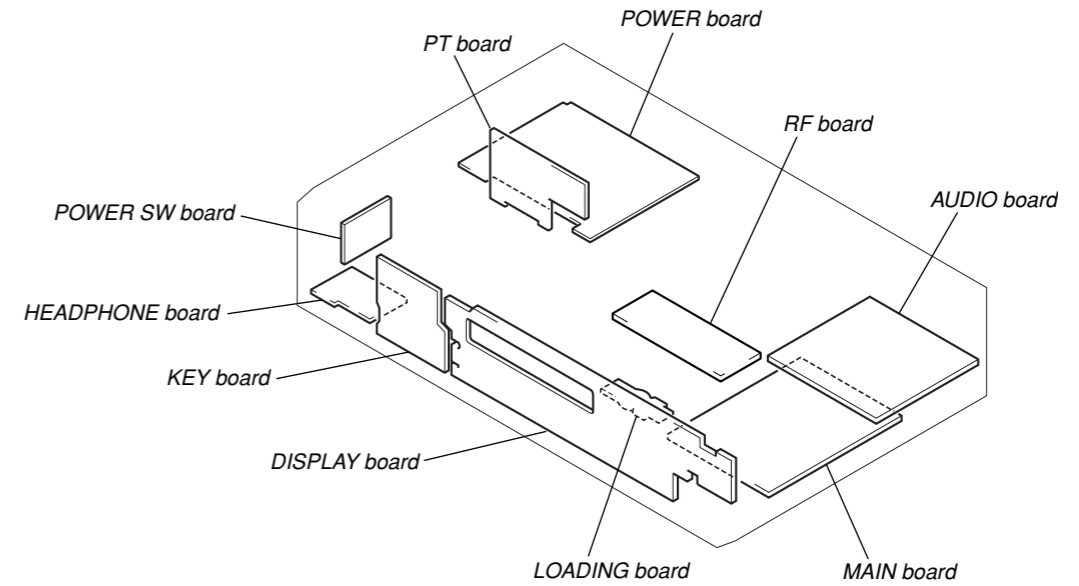
Note on Schematic Diagram:

- 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.

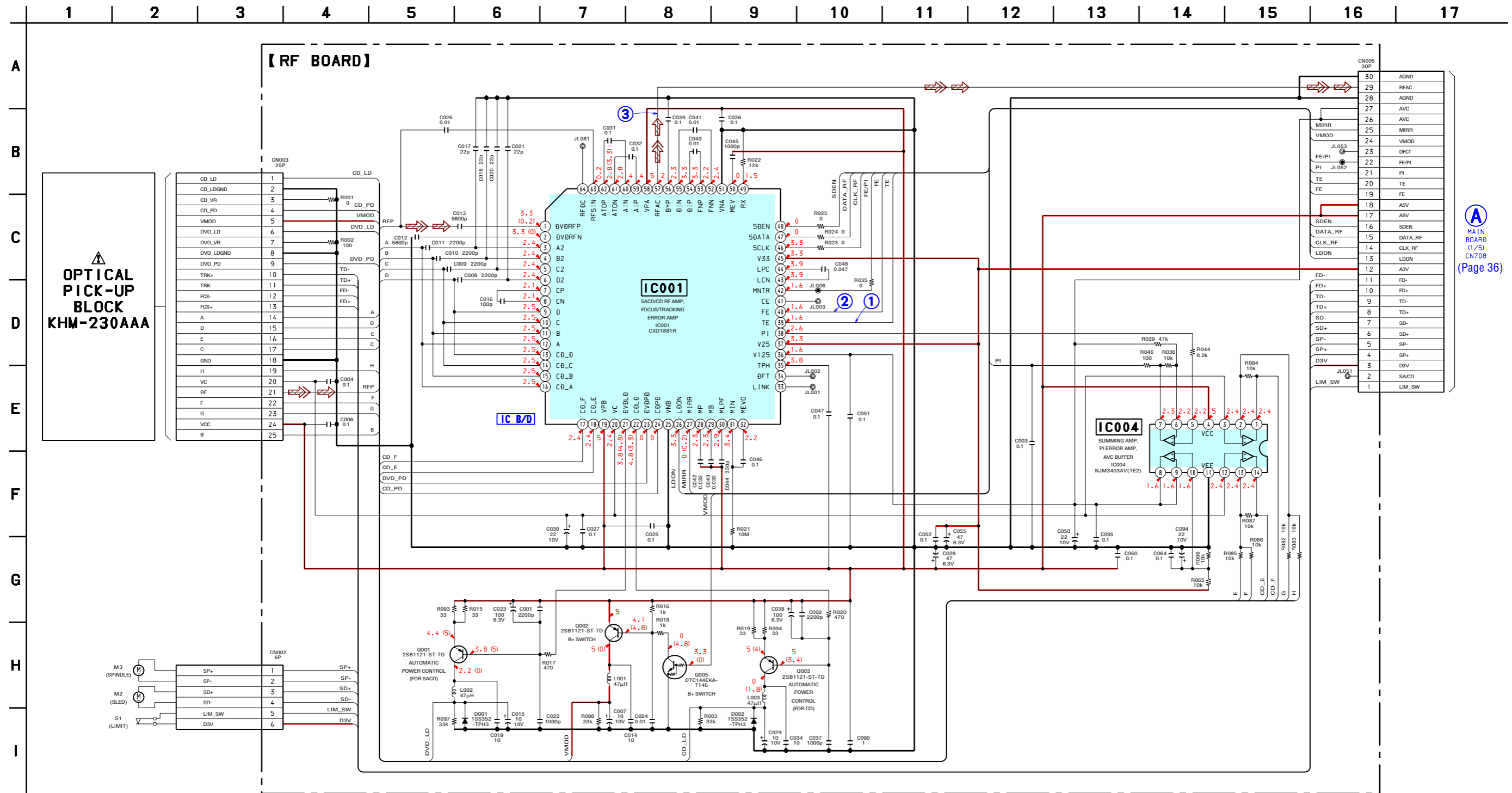
<p>Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.</p>	<p>Note: Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
---	---

- $\text{---}\text{---}\text{---}$: 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.

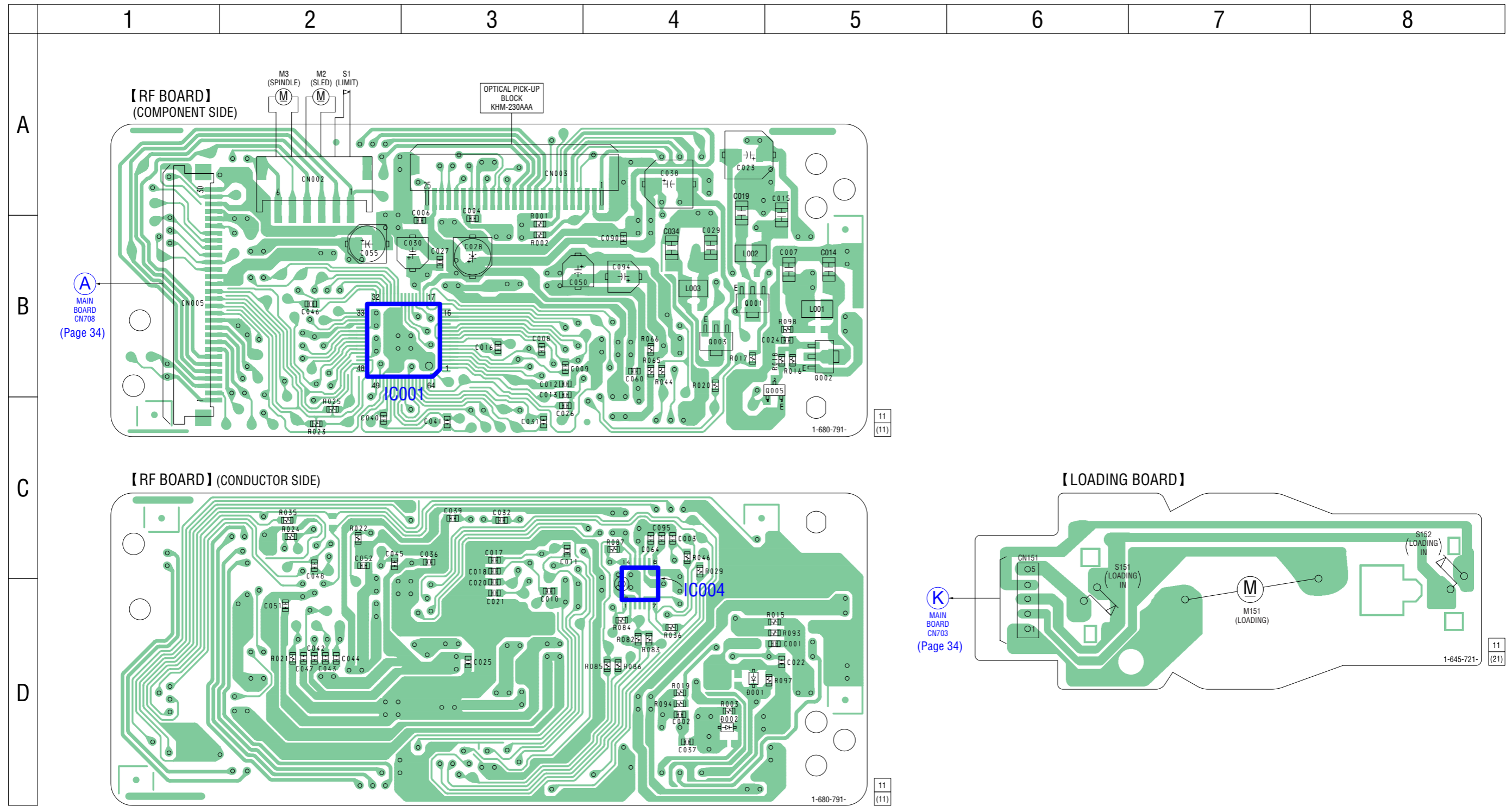


MAIN BOARD (1/5) CN708 (Page 36)

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

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

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

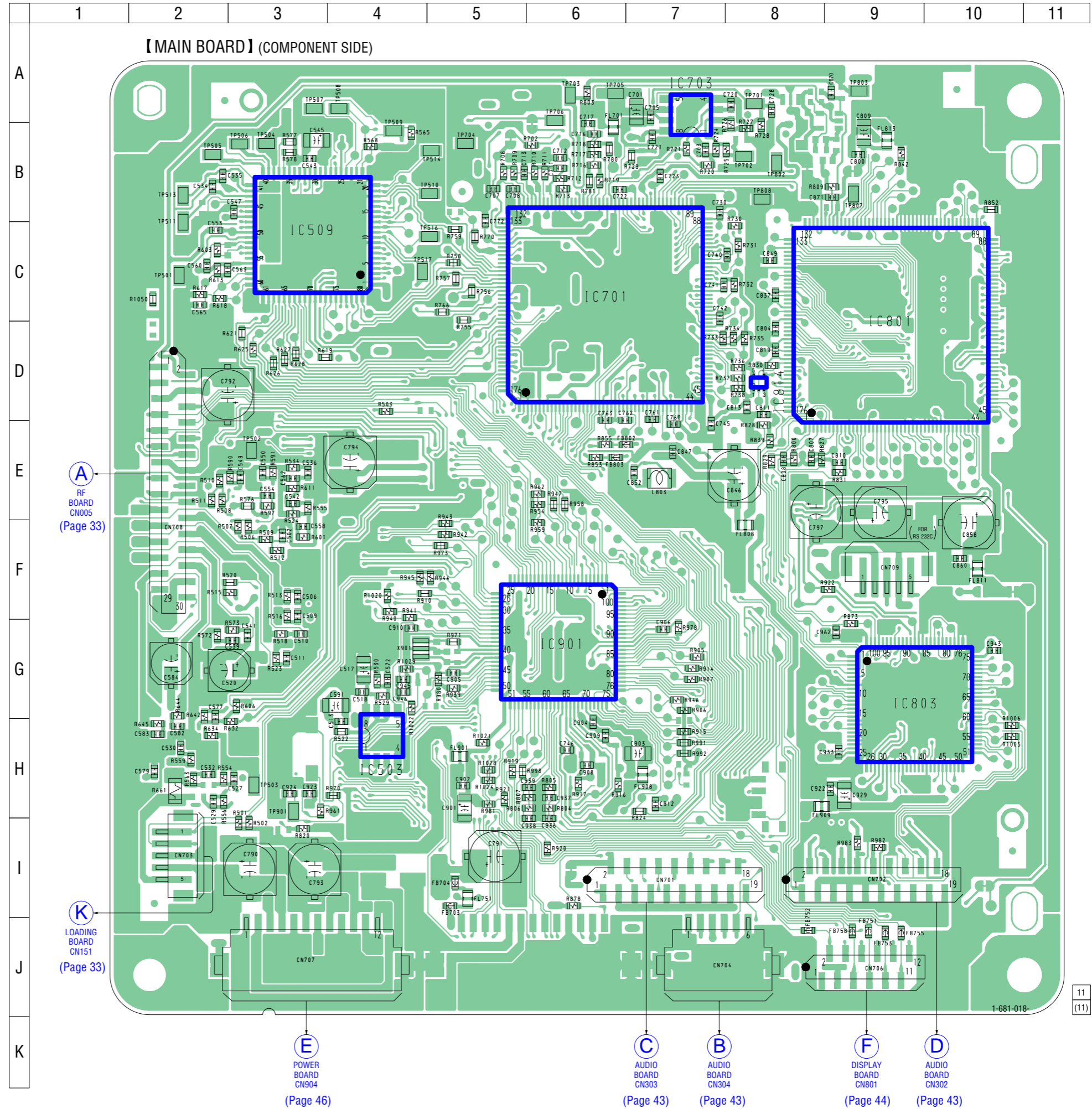


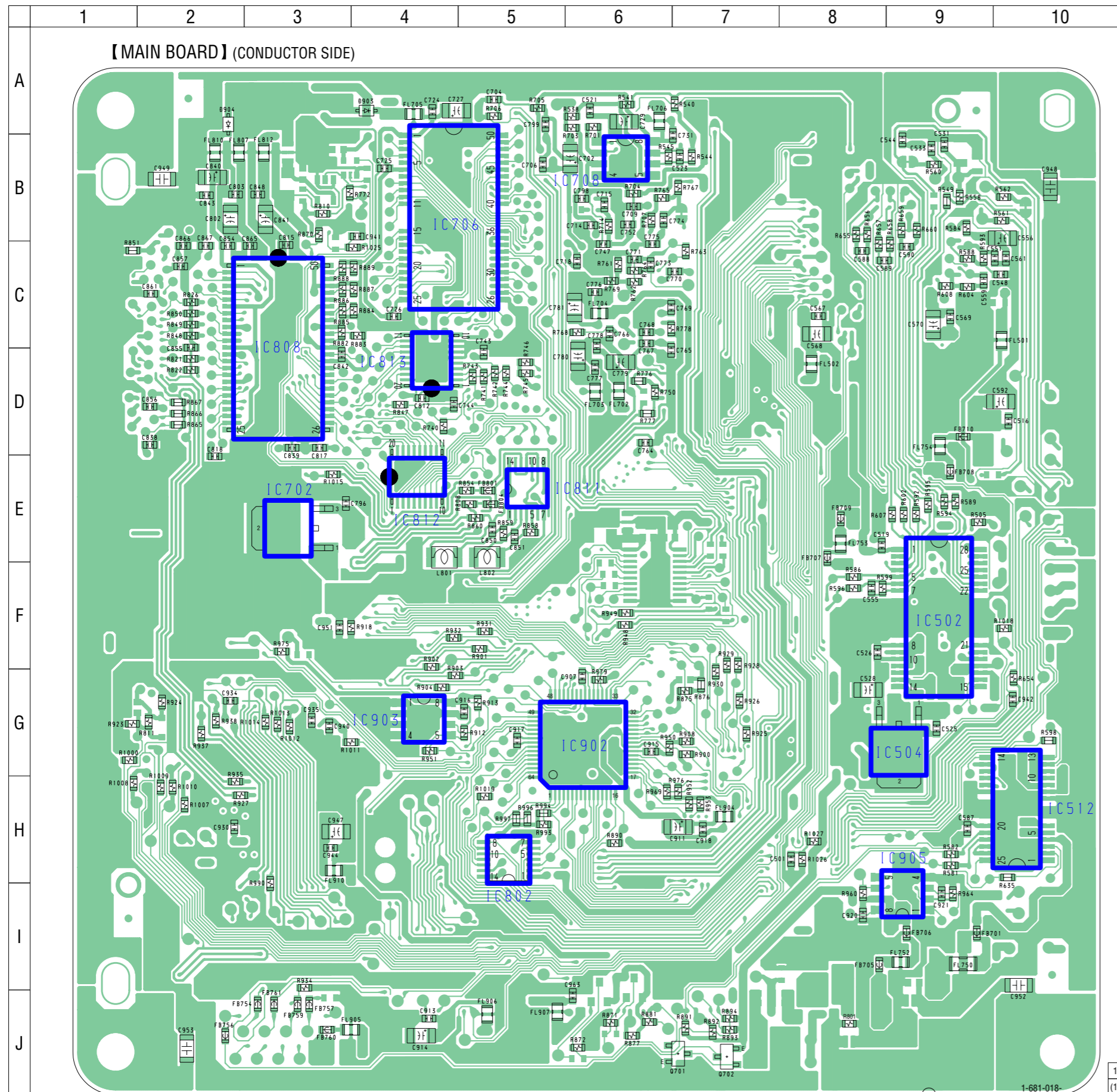
• Semiconductor Location

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



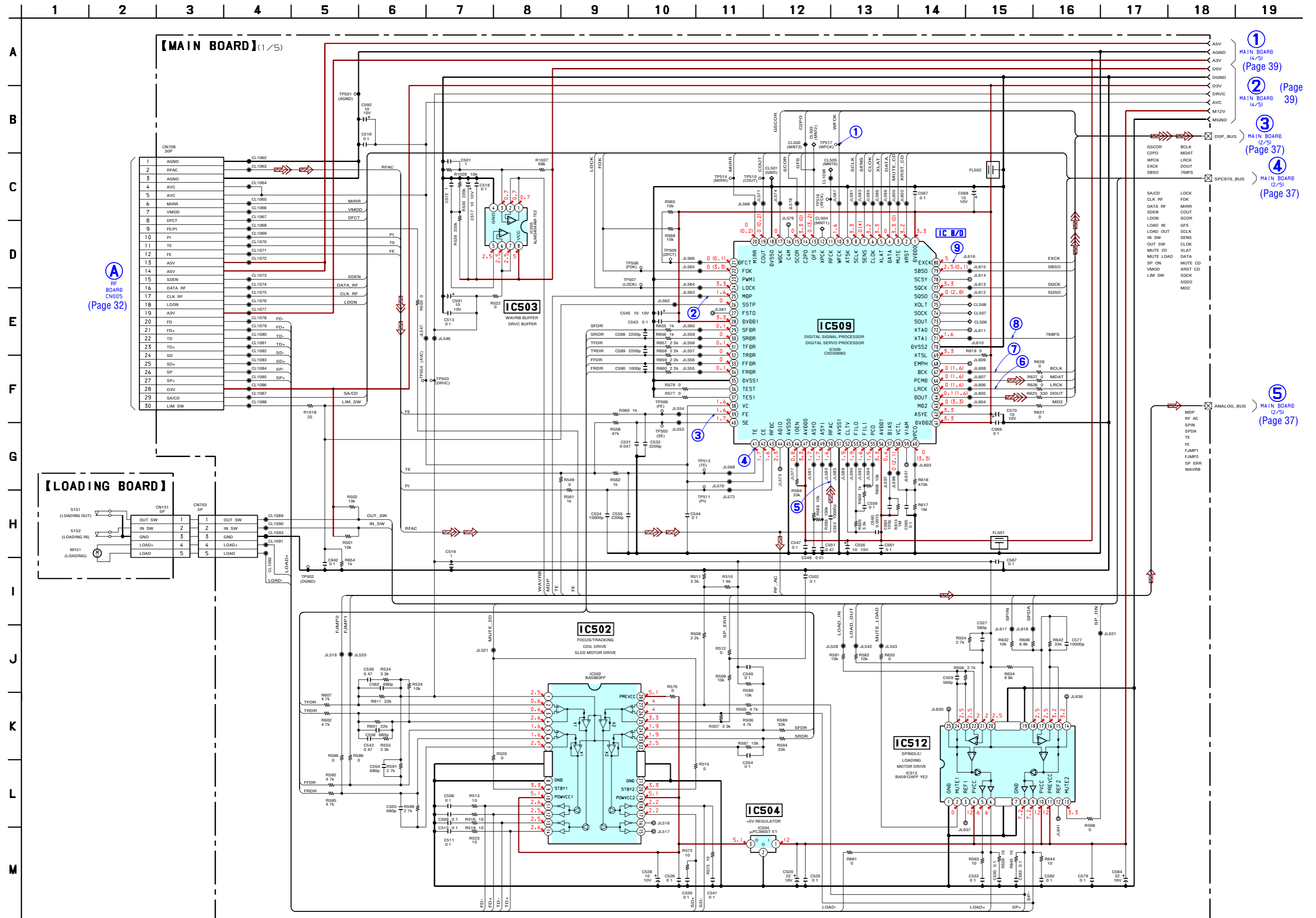


• Semiconductor Location

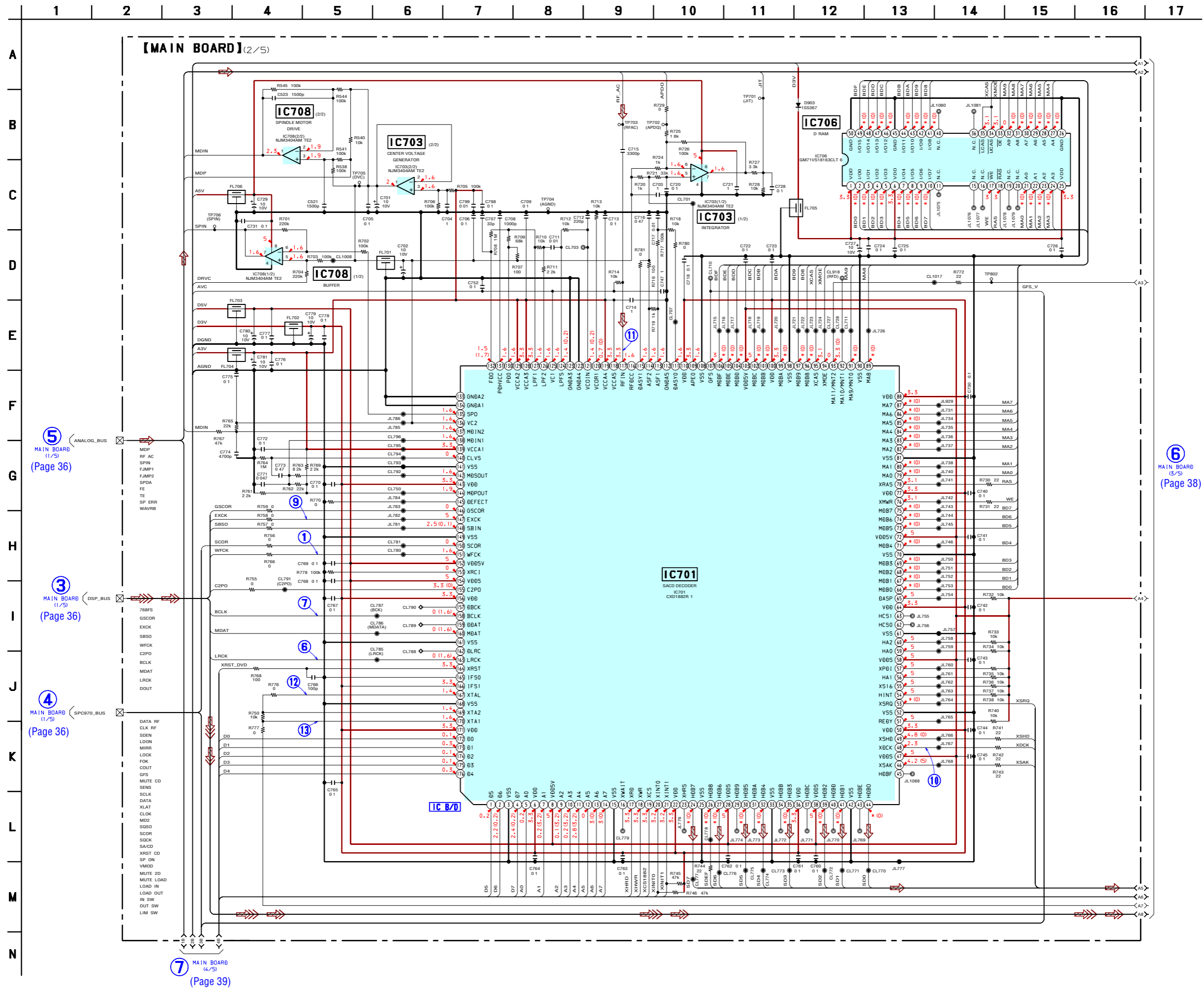
Ref. No.	Location
D903	A-4
D904	A-2
IC502	F-9
IC504	G-9
IC512	H-10
IC702	E-3
IC706	B-4
IC708	B-6
IC802	H-5
IC808	C-3
IC811	E-5
IC812	E-4
IC902	G-6
IC903	G-4
IC905	I-9
Q701	J-7
Q702	J-7

11
(11)

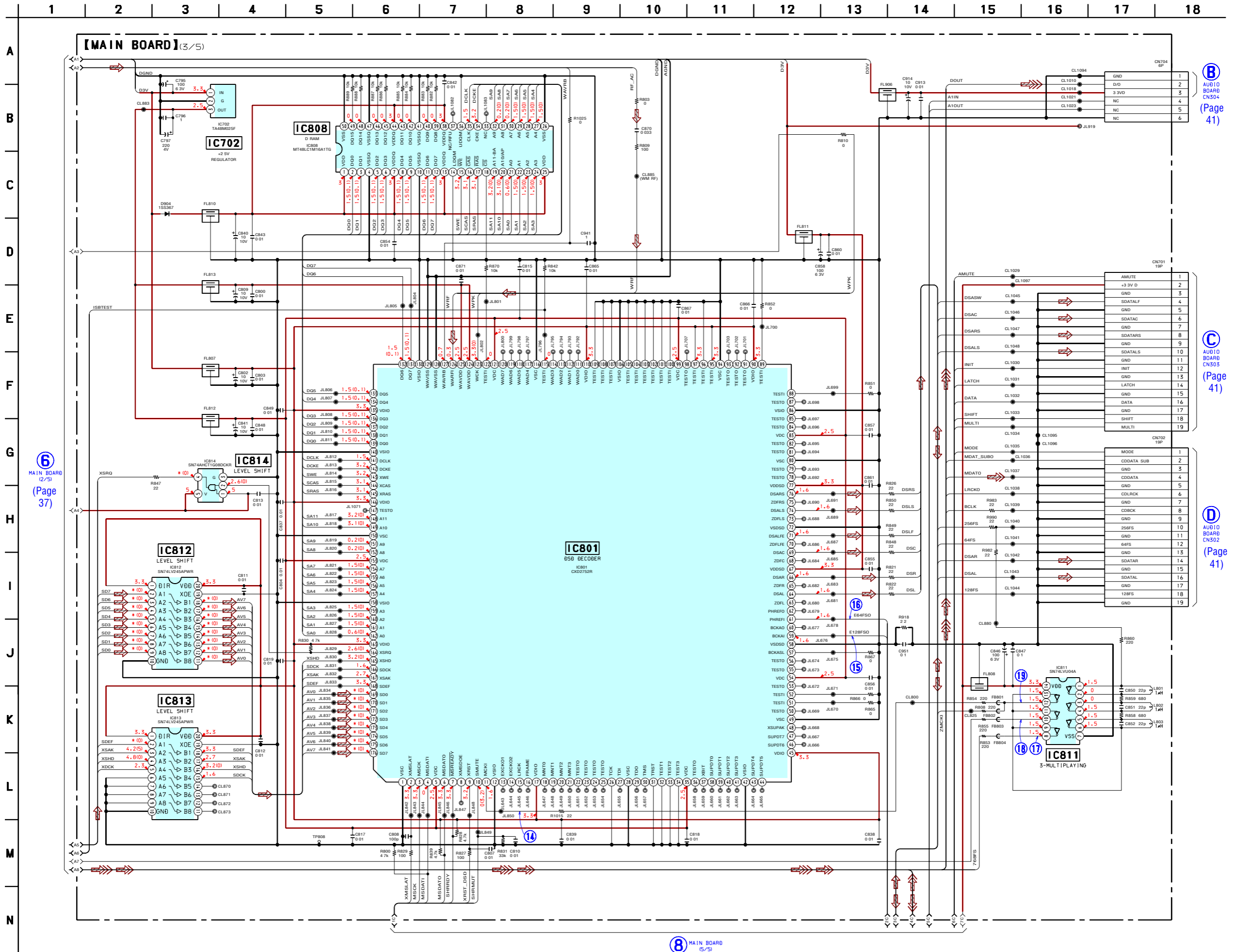
5-11. SCHEMATIC DIAGRAM – MAIN (1/5)/LOADING Boards – • See page 48 for Waveforms. • See page 51 for IC Block Diagram.



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.



6 MAIN BOARD (2/5) (Page 37)

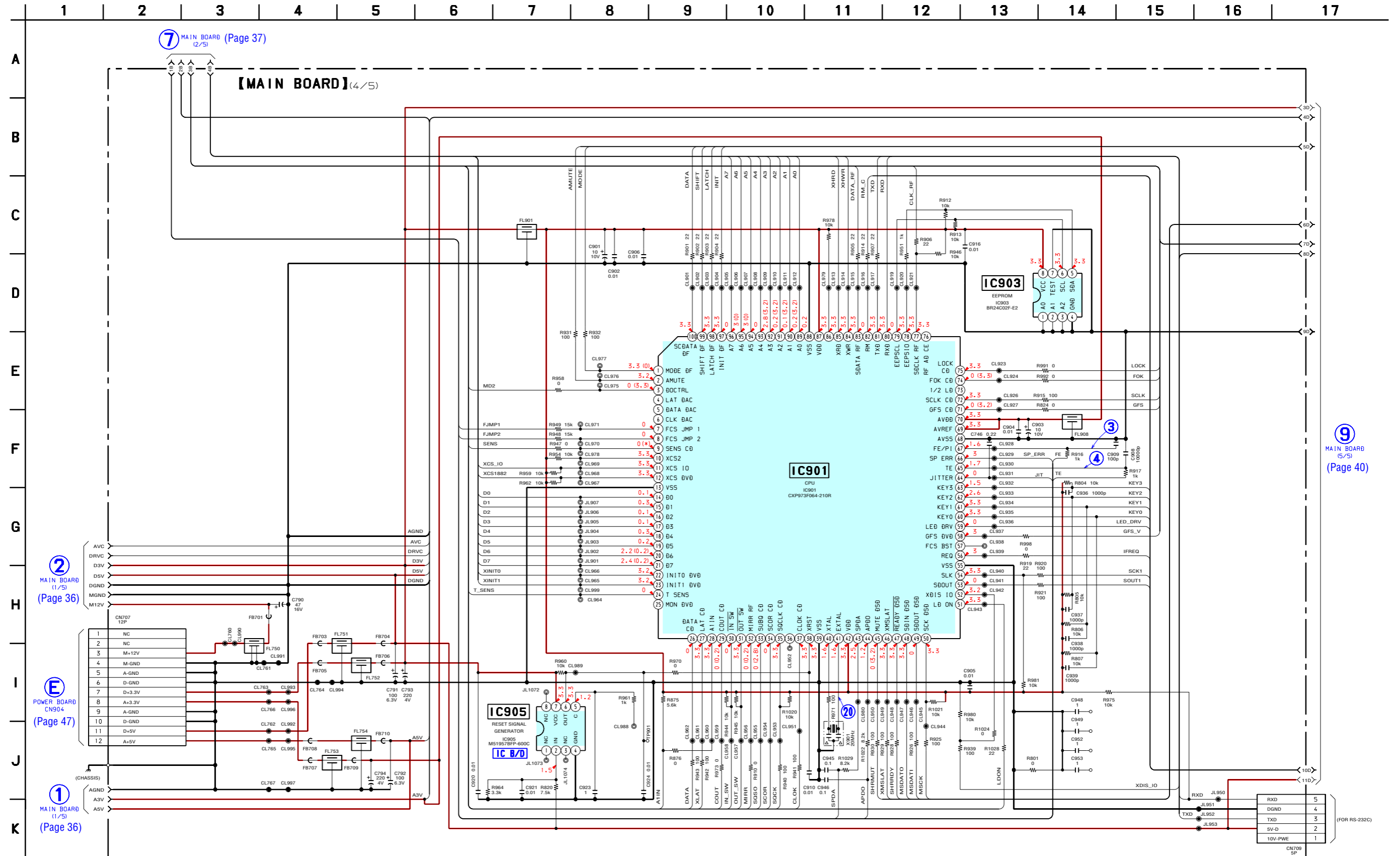
8 MAIN BOARD (5/5) (Page 40)

B AUDIO BOARD CN304 (Page 41)

C AUDIO BOARD CN303 (Page 41)

D AUDIO BOARD CN302 (Page 41)

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



7 MAIN BOARD (2/5)

【MAIN BOARD】(4/5)

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

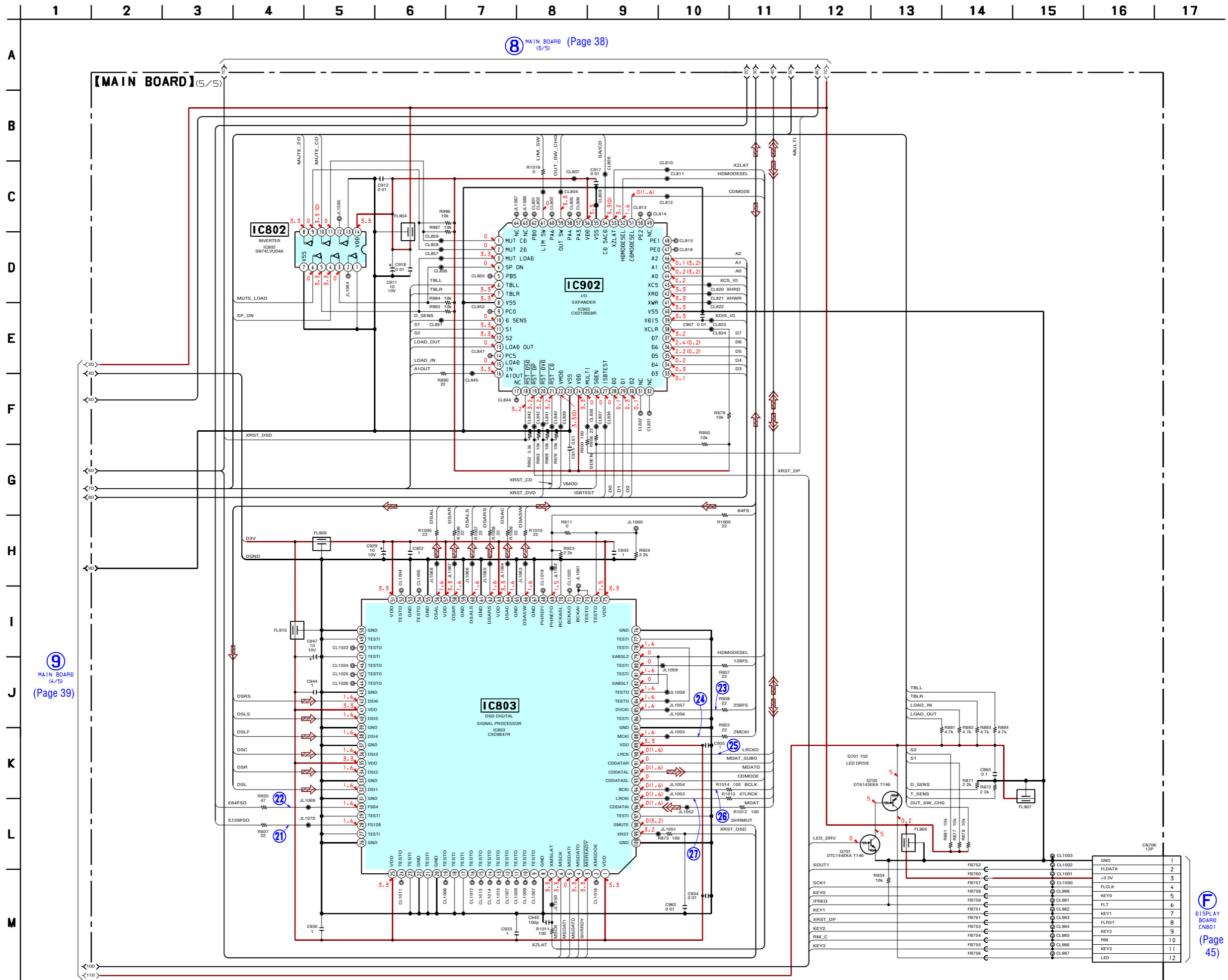
E POWER BOARD CN904 (Page 47)

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

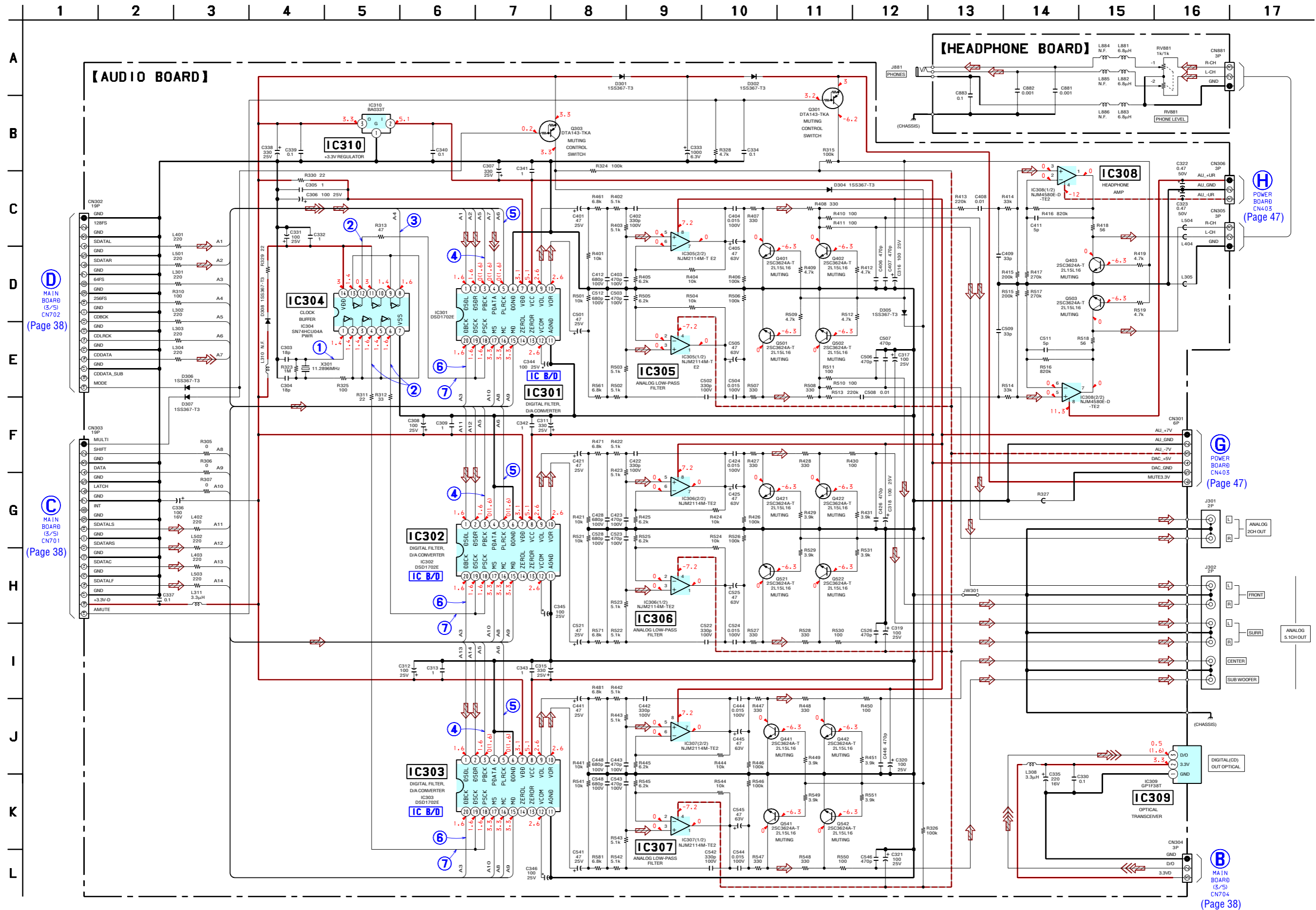
9 MAIN BOARD (5/5) (Page 40)

(FOR RS-232C)

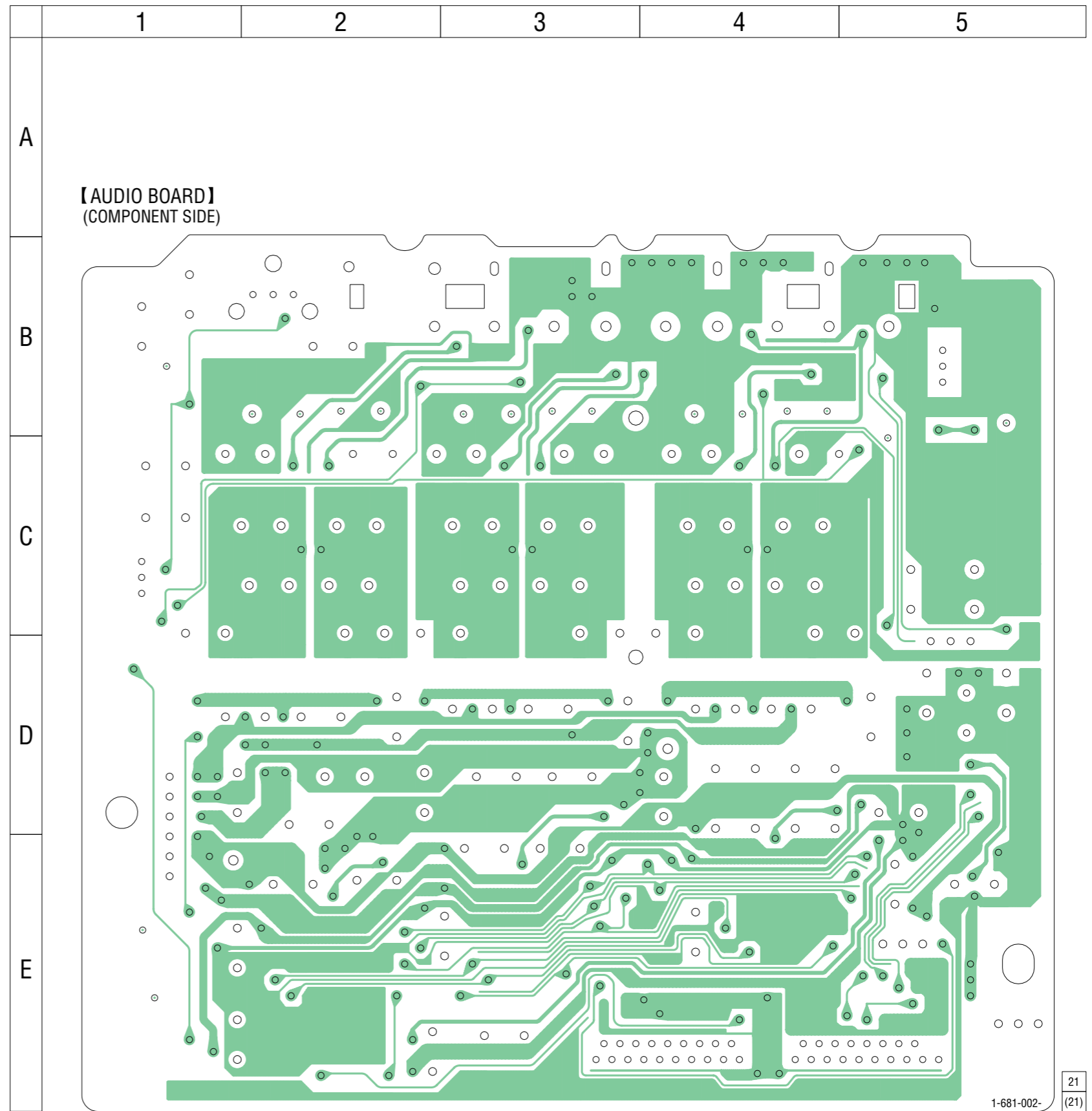
5-15. SCHEMATIC DIAGRAM – MAIN Board (5/5) – • See page 48 for Waveforms.



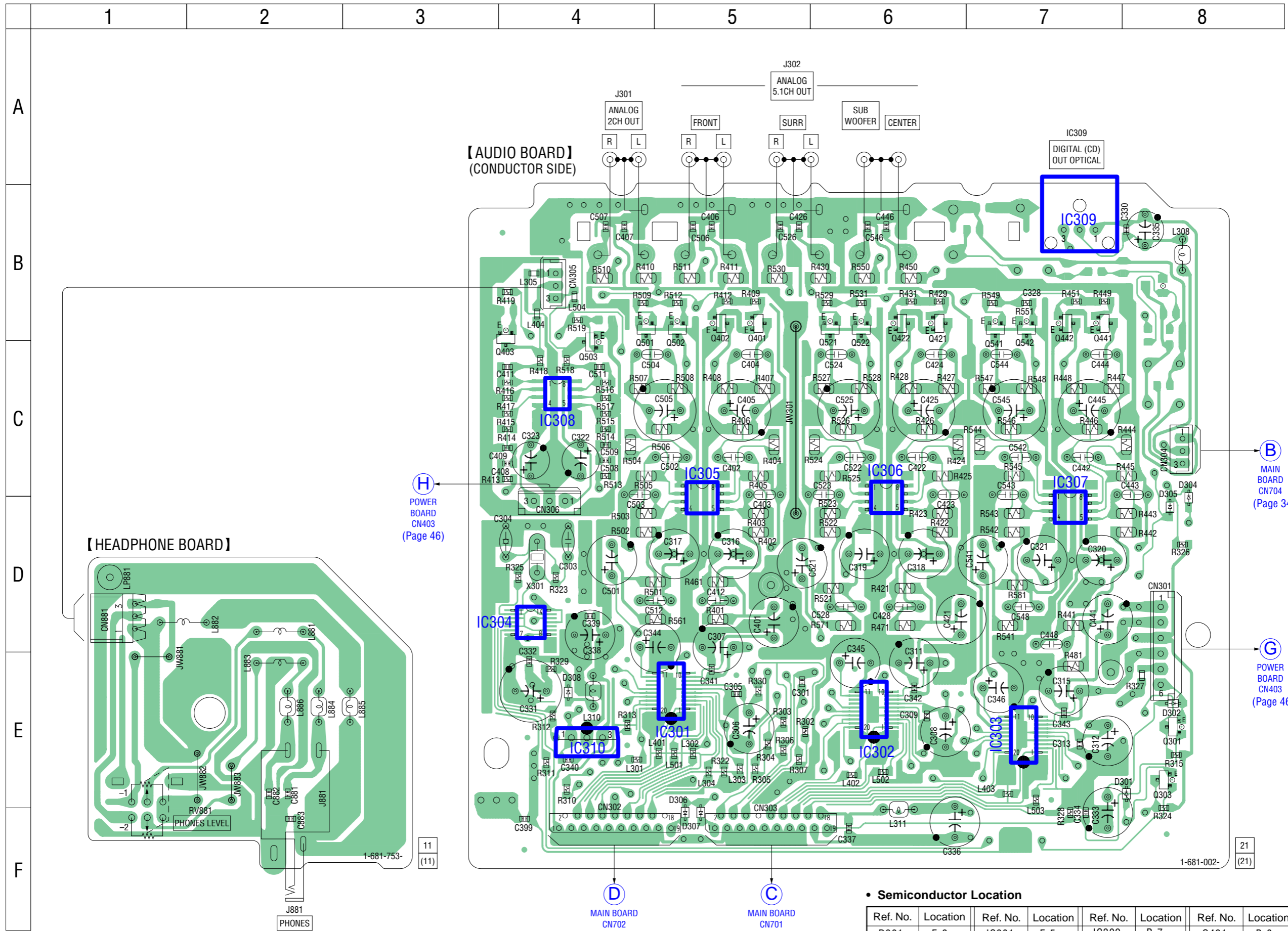
5-16. SCHEMATIC DIAGRAM – AUDIO/HEADPHONE Boards – • See page 48 for Waveforms. • See page 51 for IC Block Diagram.



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



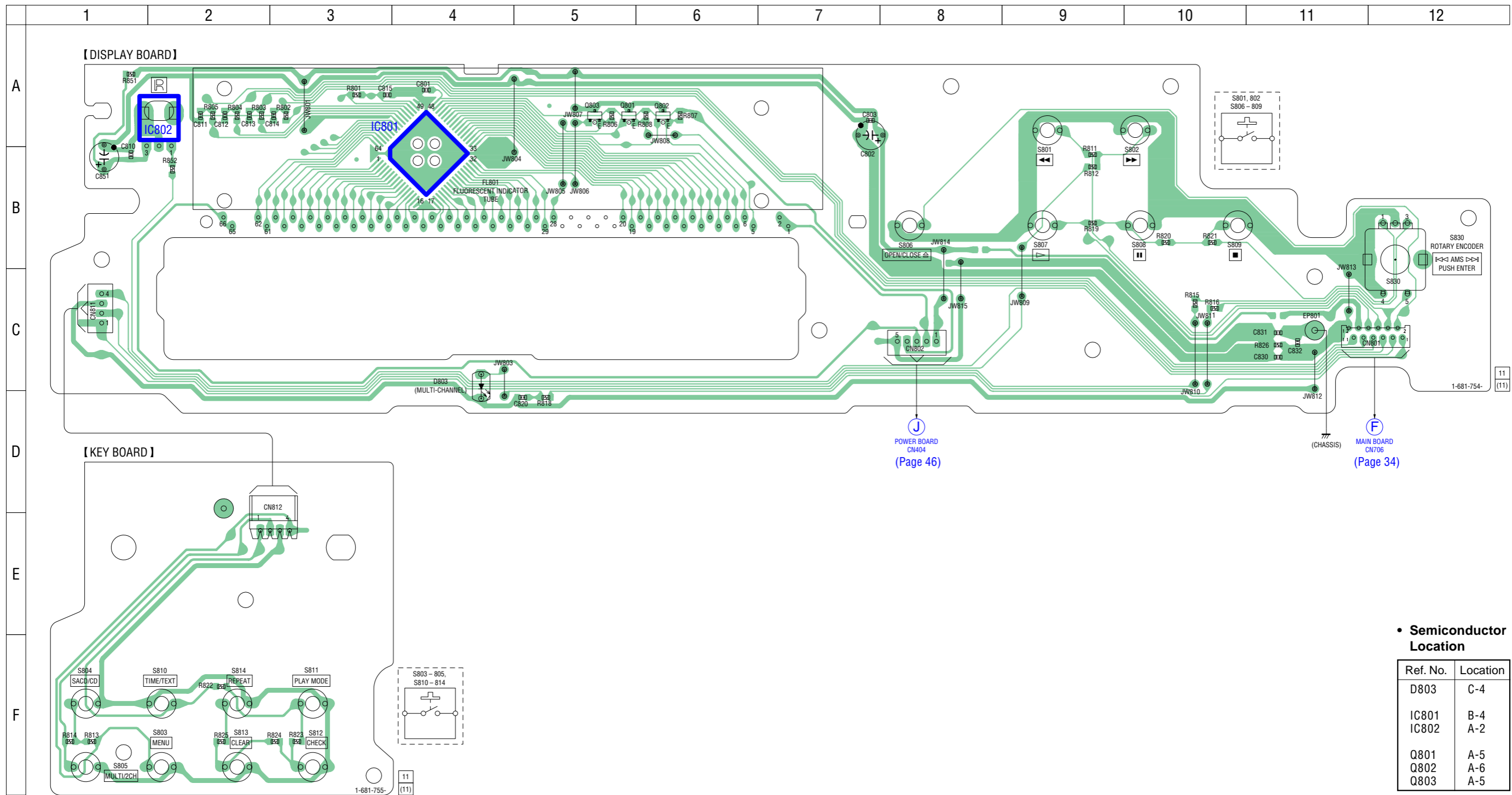
5-18. PRINTED WIRING BOARDS – AUDIO (Conductor Side)/HEADPHONE Boards – • See page 31 for Circuit Boards Location.



• 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		

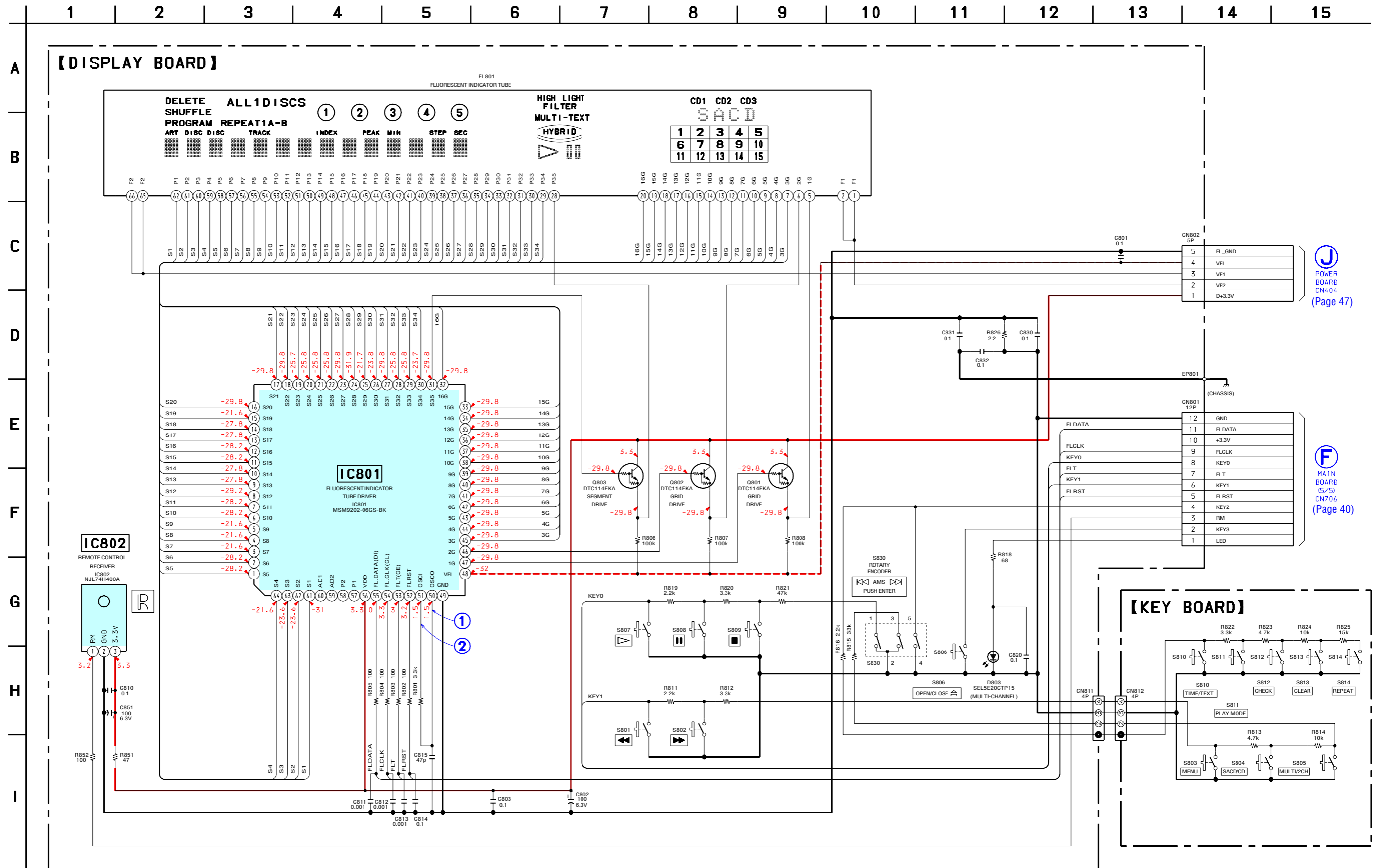
5-19. PRINTED WIRING BOARDS – DISPLAY/KEY Boards – • See page 31 for Circuit Boards Location.



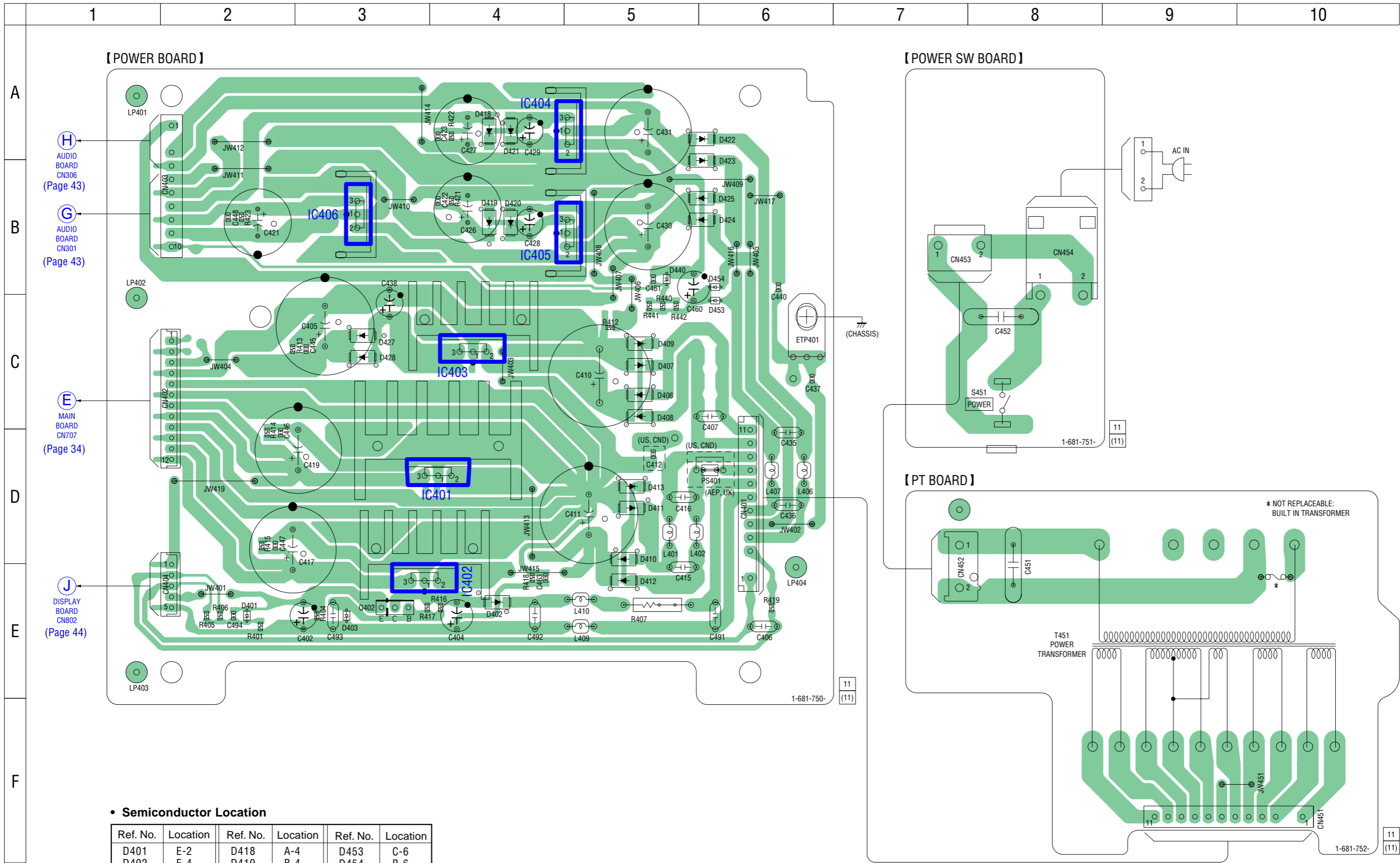
• Semiconductor Location

Ref. No.	Location
D803	C-4
IC801	B-4
IC802	A-2
Q801	A-5
Q802	A-6
Q803	A-5

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



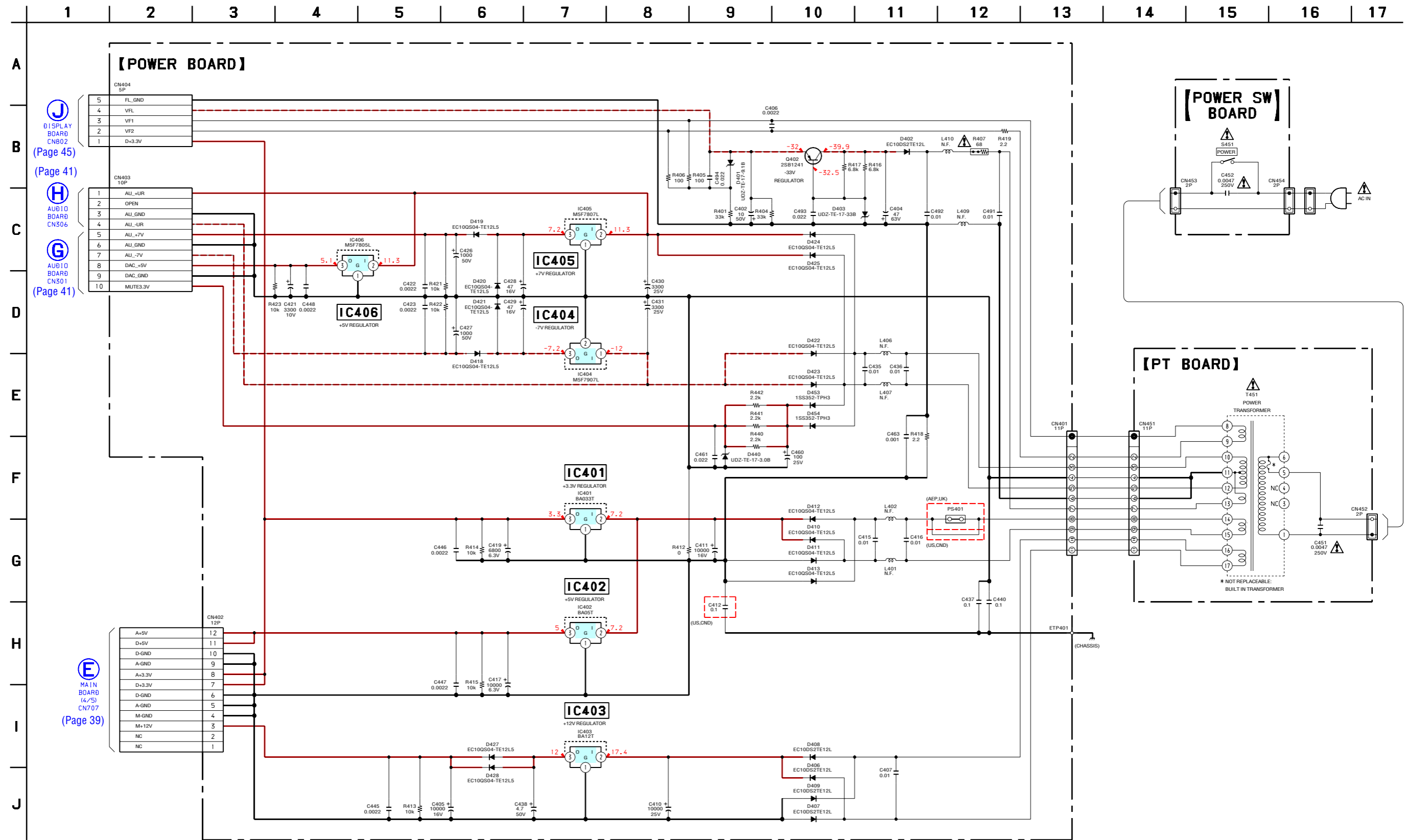
5-21. PRINTED WIRING BOARDS – POWER/POWER SW/PT Boards – • See page 31 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D401	E-2	D418	A-4	D453	C-6
D402	E-4	D419	B-4	D454	B-6
D403	E-3	D420	B-4		
D406	C-5	D421	A-4	IC401	D-4
D407	C-5	D422	A-6	IC402	E-3
D408	C-5	D423	B-6	IC403	C-4
D409	C-5	D424	B-6	IC404	A-5
D410	D-5	D425	B-6	IC405	B-5
D411	D-5	D427	C-3	IC406	B-3
D412	E-5	D428	C-3		
D413	D-5	D440	B-5	Q402	E-3

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

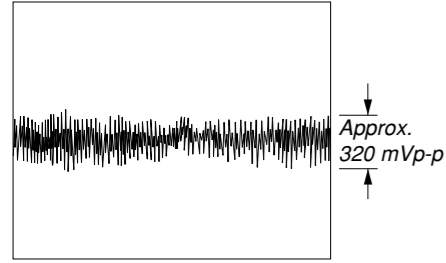


The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

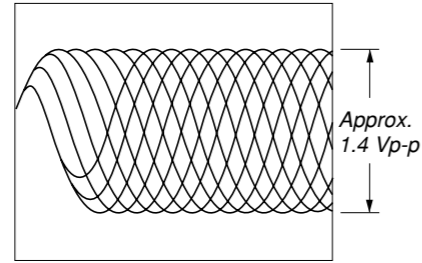
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• Waveforms
– RF Board –

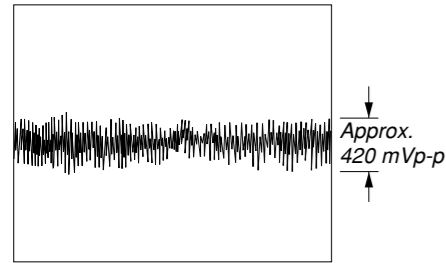
1 IC001 39 (TE) (SACD Play mode)



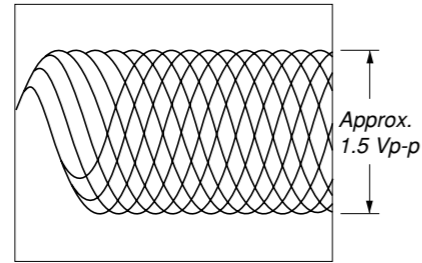
3 IC001 37 (RFAC) (SACD Play mode)



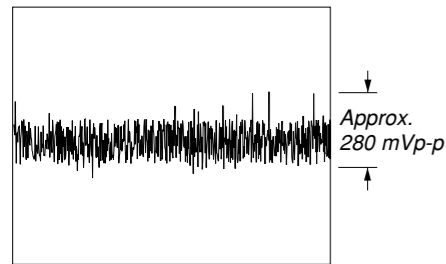
1 IC001 39 (TE) (CD Play mode)



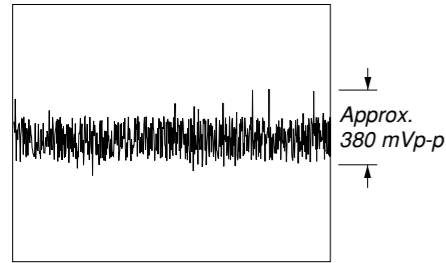
3 IC001 37 (RFAC) (CD Play mode)



2 IC001 40 (FE) (SACD Play mode)

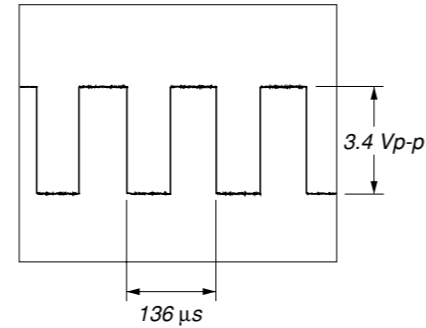


2 IC001 40 (FE) (CD Play mode)

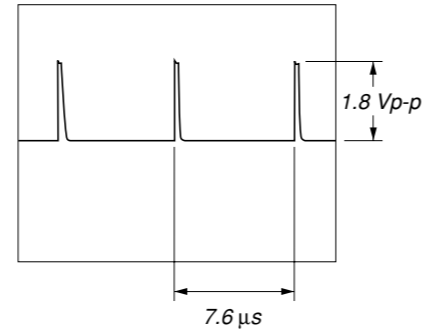


– MAIN Board –

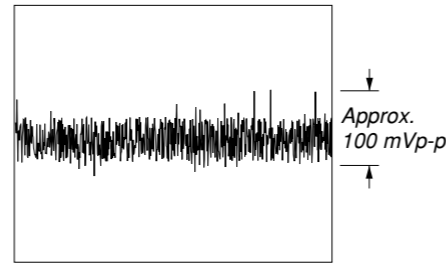
1 IC509 10 (WFCK), IC701 15 (WFCK)



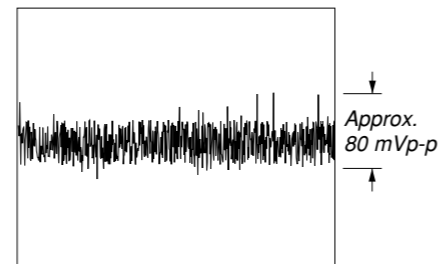
2 IC509 25 (MDP) (CD Play mode)



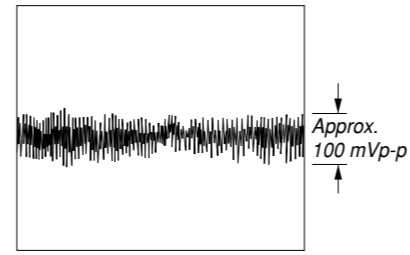
3 IC509 39 (FE), IC901 37 (FE/PI) (SACD Play mode)



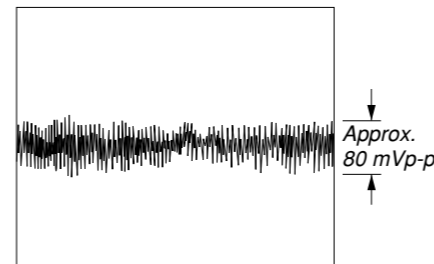
3 IC509 39 (FE), IC901 37 (FE/PI) (CD Play mode)



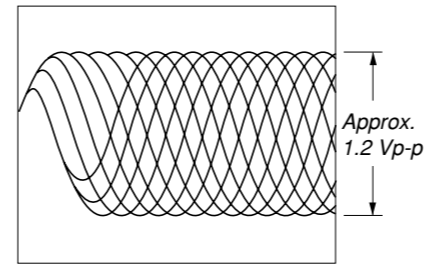
4 IC509 41 (TE), IC901 35 (TE) (SACD Play mode)



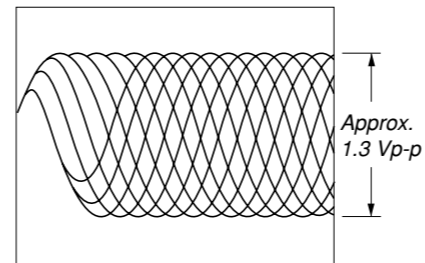
4 IC509 41 (TE), IC901 35 (TE) (CD Play mode)



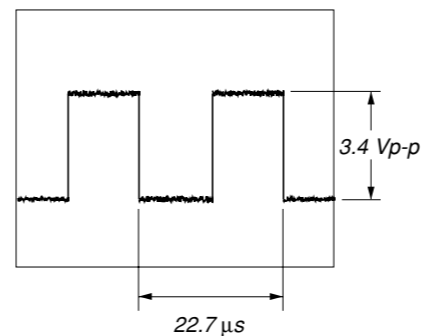
5 IC509 30 (RFAC) (SACD Play mode)



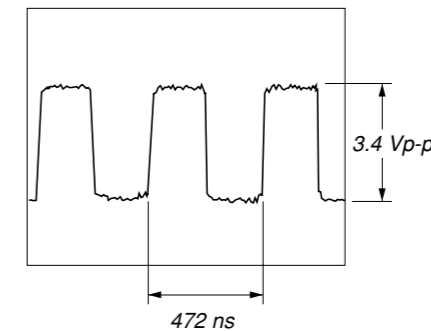
5 IC509 30 (RFAC) (CD Play mode)



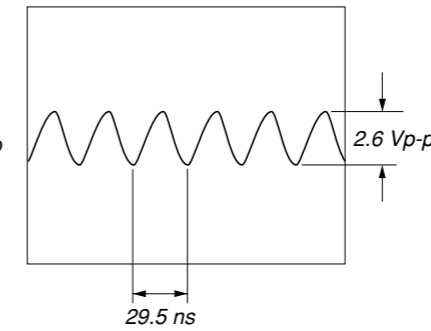
6 IC509 35 (LRCK), IC701 13 (LRCK) (CD Play mode)



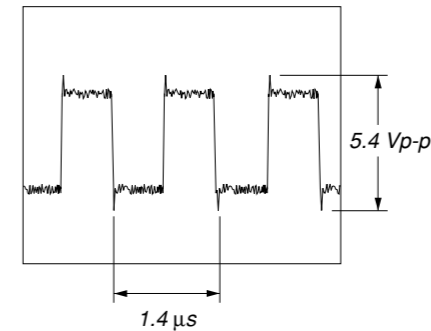
7 IC509 37 (BCK), IC701 13 (BCLK) (CD Play mode)



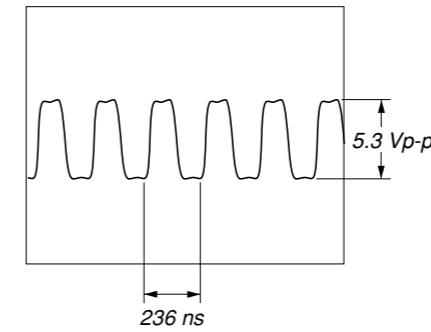
8 IC509 37 (XTAI)



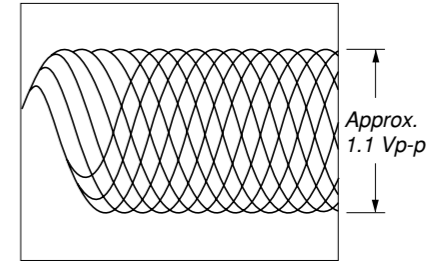
9 IC509 30 (EXCK), IC701 10 (EXCK)



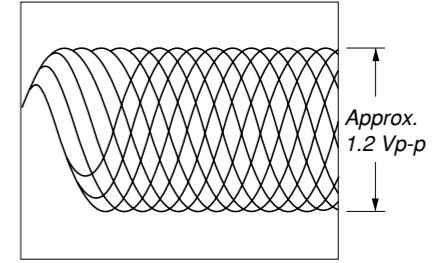
10 IC701 48 (XDCK)



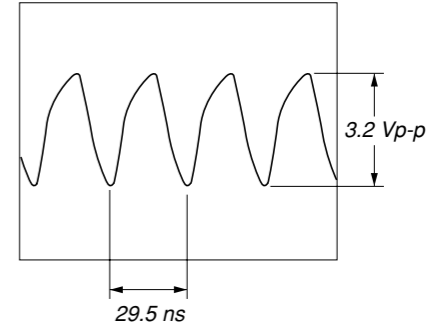
11 IC701 10 (RFIN) (SACD Play mode)



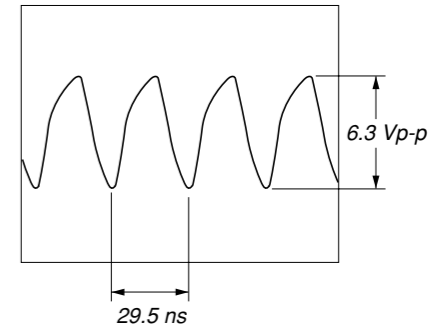
11 IC701 10 (RFIN) (CD Play mode)



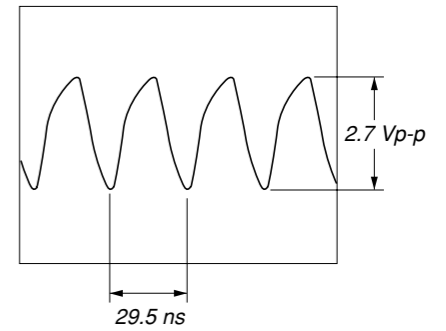
12 IC701 10 (XTAL)



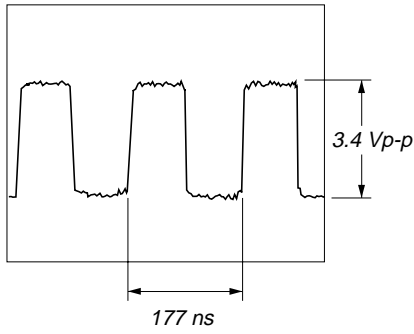
13 IC701 10 (XTA1)



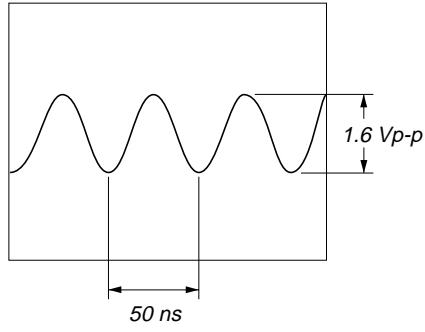
14 IC801 11 (MCKI)



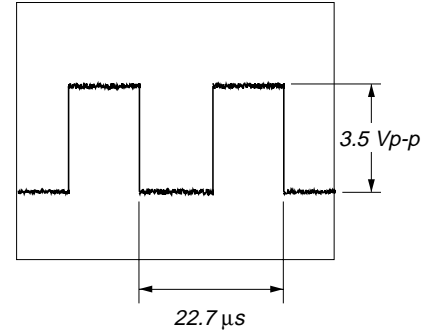
15 IC801 59 (BCKAI)



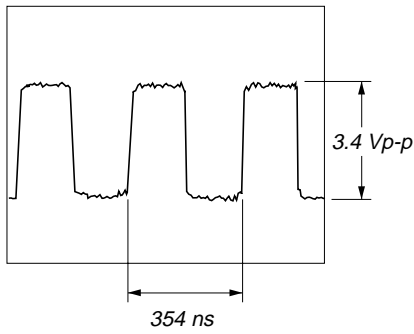
20 IC901 41 (EXTAL)



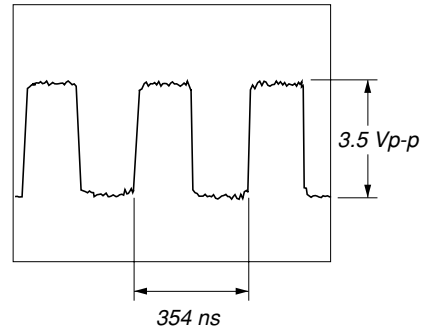
25 IC803 90 (LRCK) (CD Play mode)



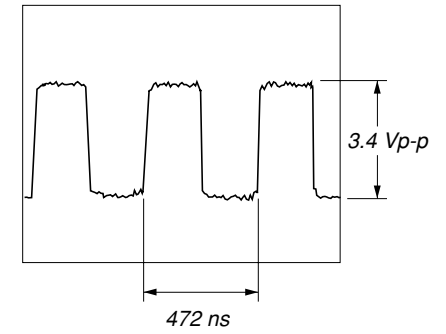
16 IC801 61 (PHREFI)



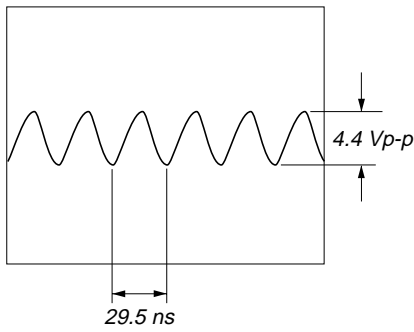
21 IC803 28 (FS128)



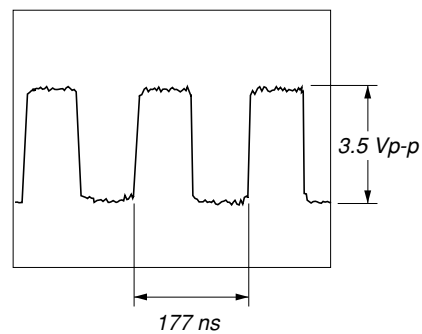
26 IC803 94 (BCLK) (CD Play mode)



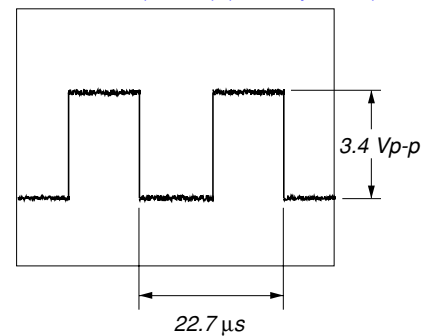
17 IC811 8



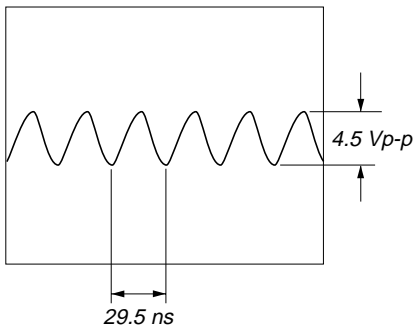
22 IC803 30 (FS64)



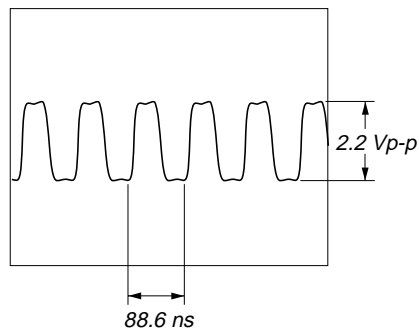
27 IC803 95 (LRCKI) (CD Play mode)



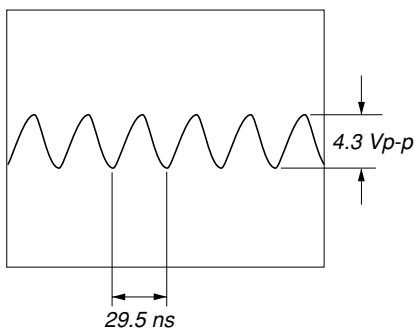
18 IC811 10



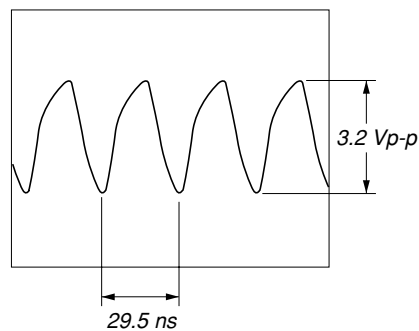
23 IC803 65 (DVCKI)



19 IC811 12

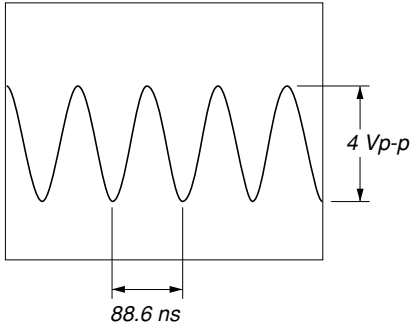


24 IC803 88 (MCKI)

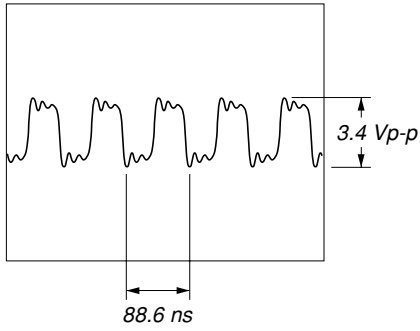


– AUDIO Board –

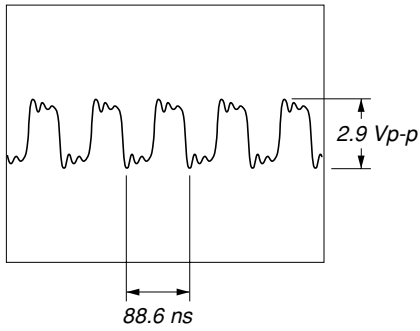
① IC304 ①



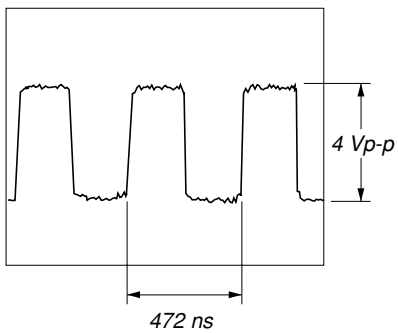
② IC304 ④, ⑥, ⑫



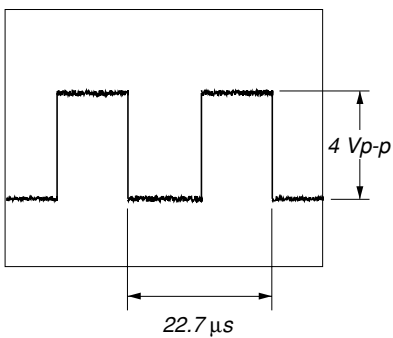
③ IC304 ⑧



④ IC301 – 303 ③ (PBCK)
(CD Play mode)

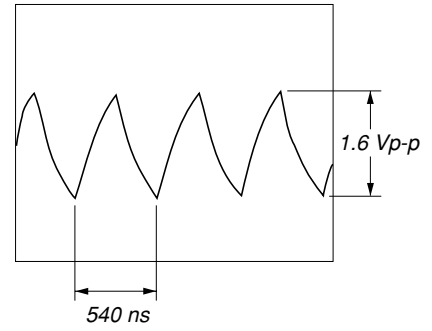


⑤ IC301 – 303 ⑤ (PLRCK)
(CD Play mode)

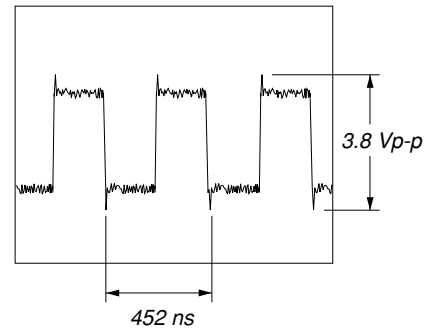


– DISPLAY Board –

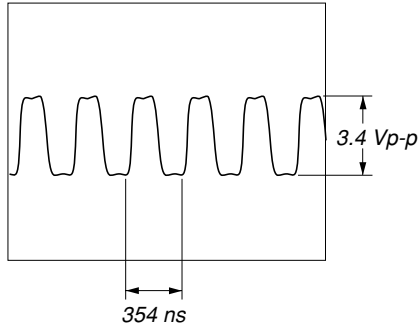
① IC801 ⑤⑩ (OSCO)



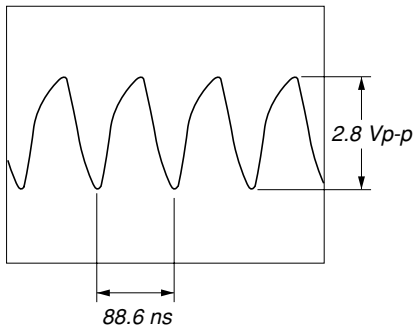
② IC801 ⑤⑪ (OSCI)



⑥ IC301 – 303 ⑫ (DBCK)

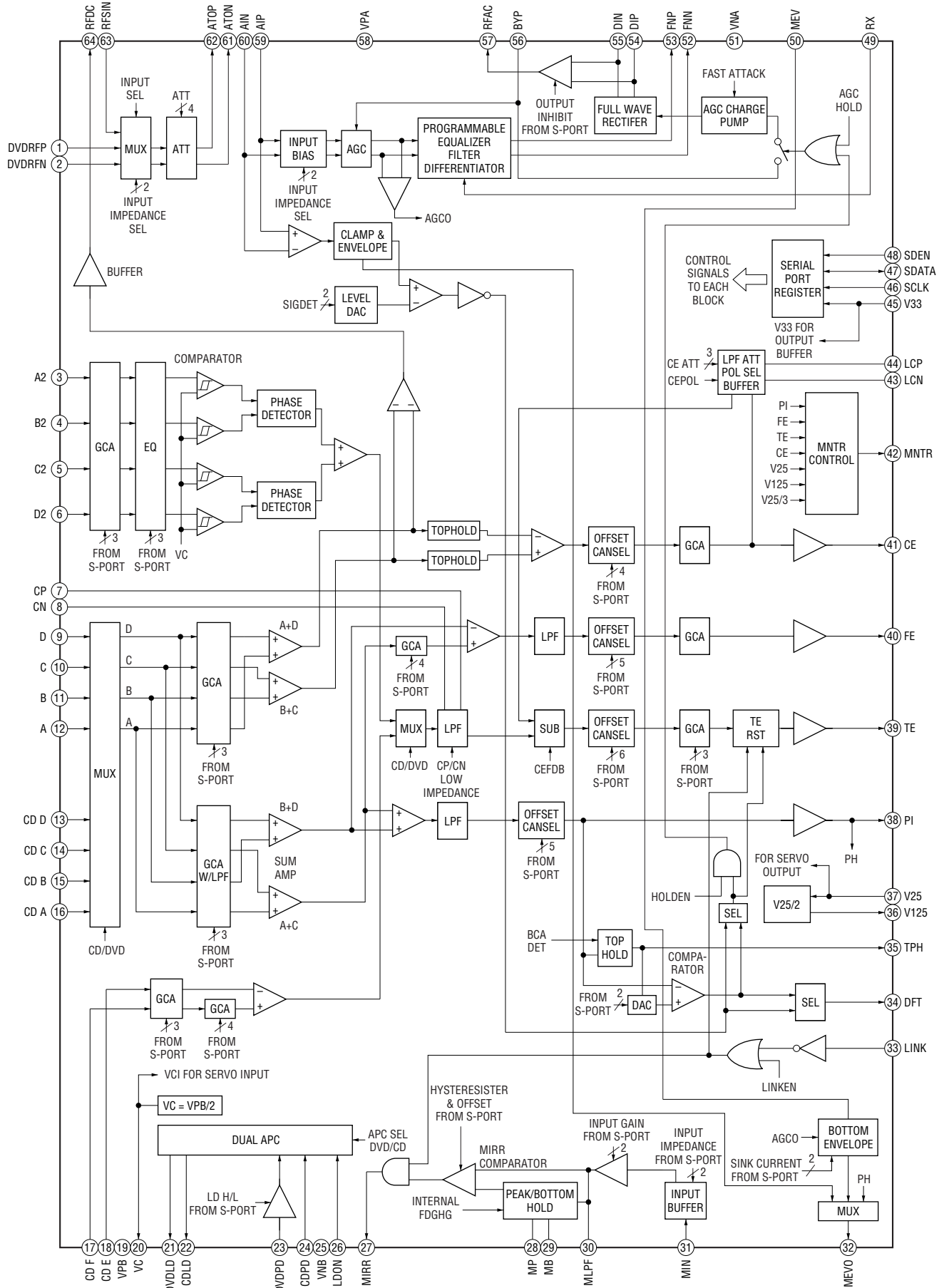


⑦ IC301 – 303 ⑬ (PSCK), ⑭ (DSCK)



• IC Block Diagrams
– RF Board –

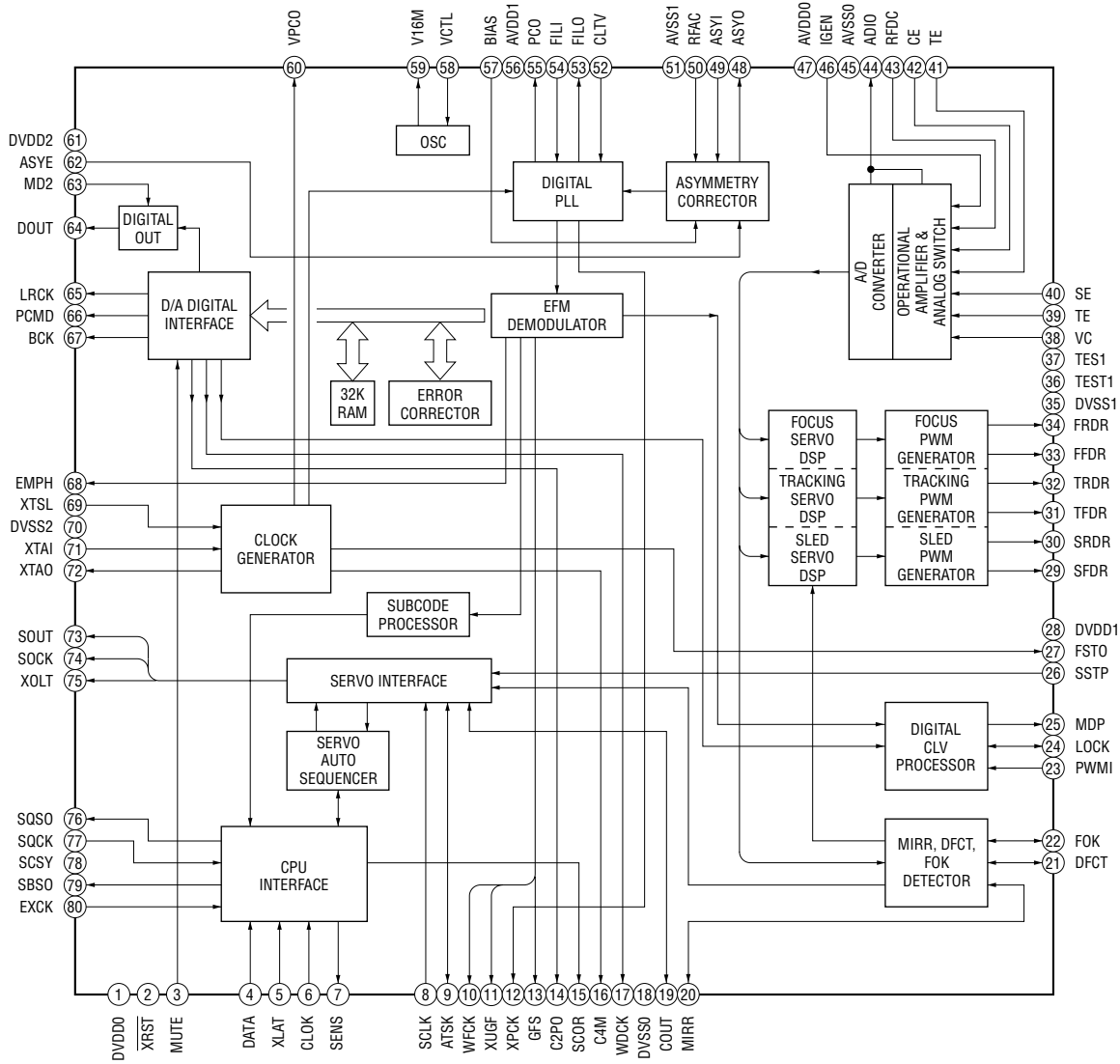
IC001 CXD1881R



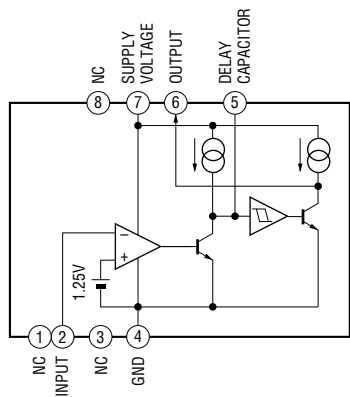
SCD-XE670

– MAIN Board –

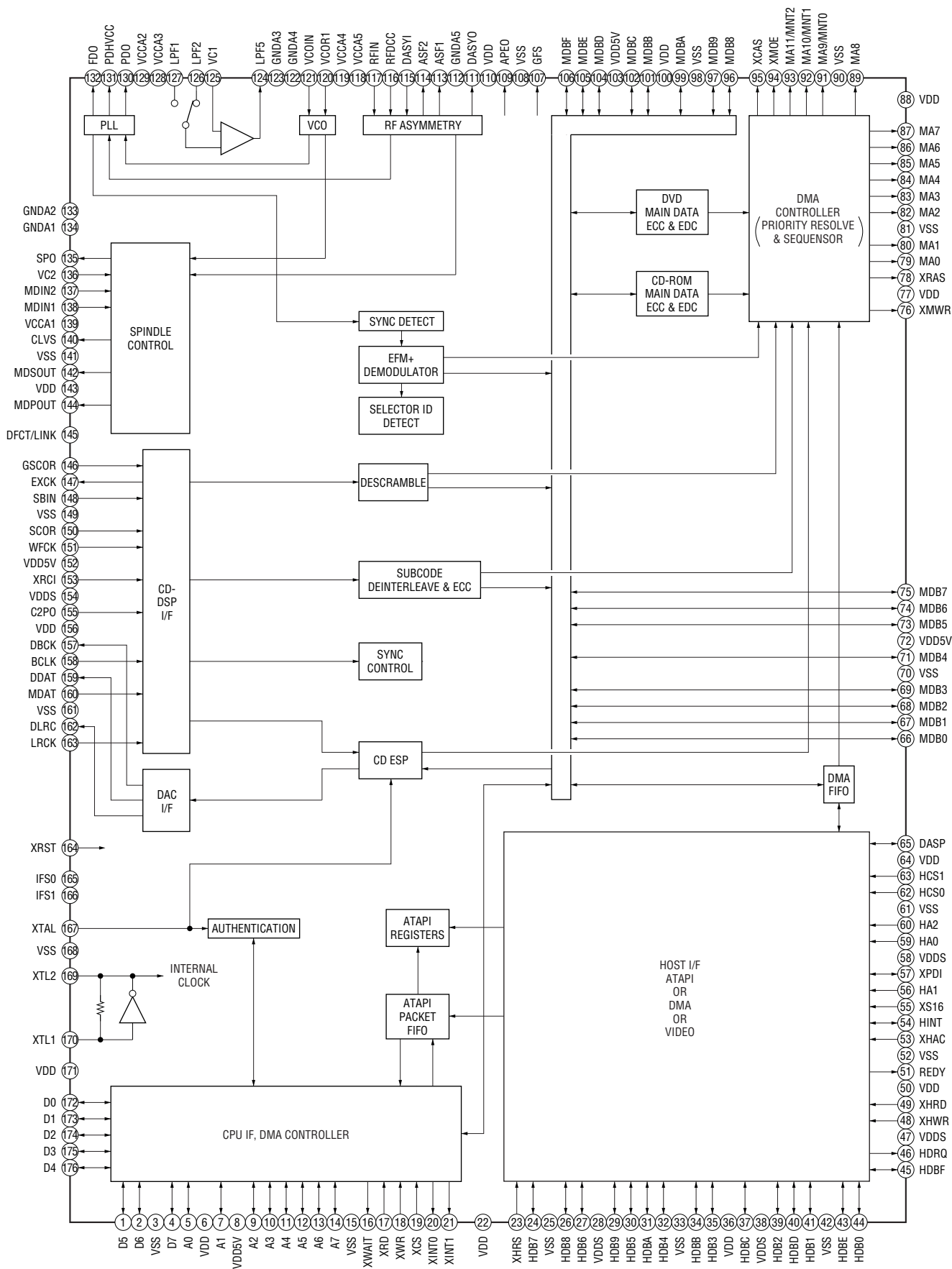
IC509 CXD3068Q



IC905 M51957BFP-600C



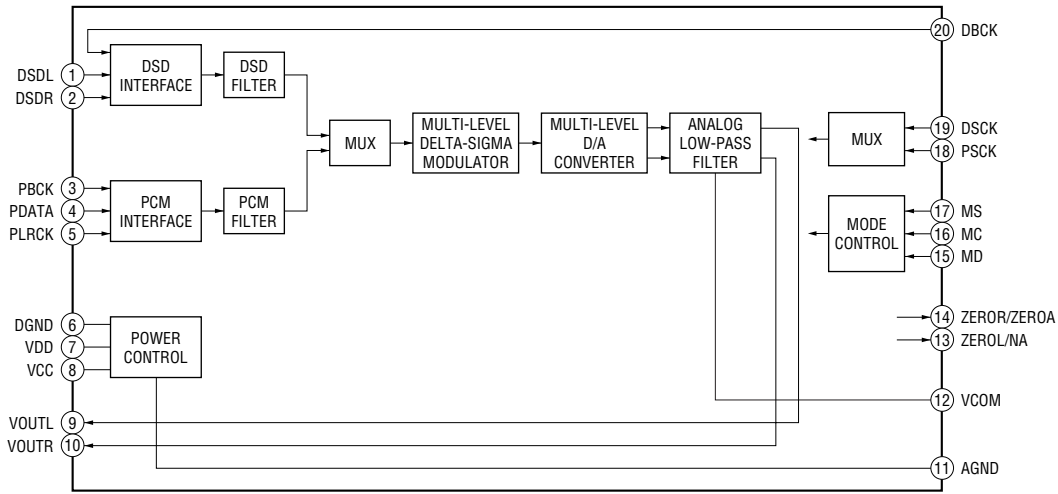
IC701 CXD1882R-1



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

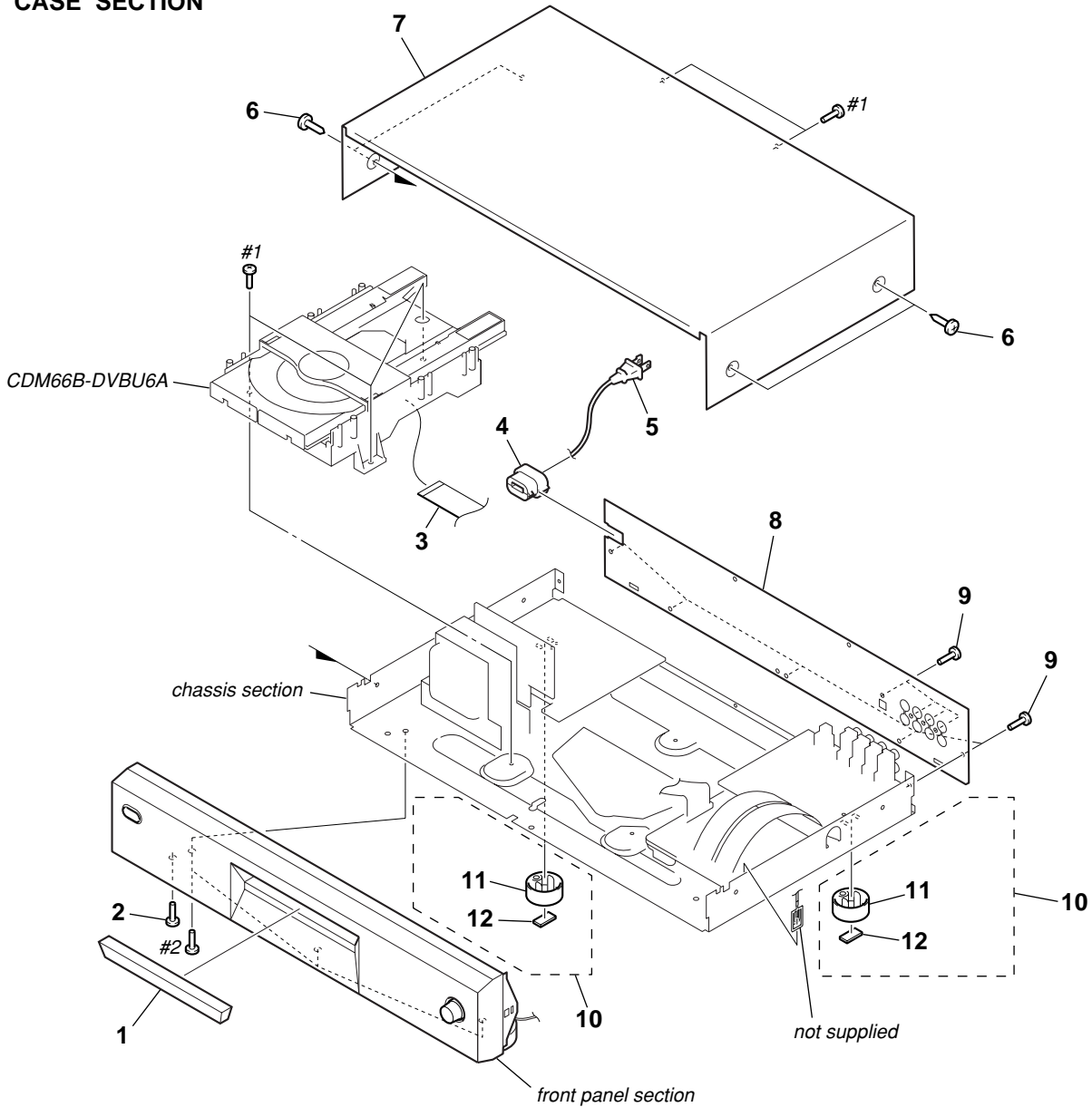
NOTE:

- -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.

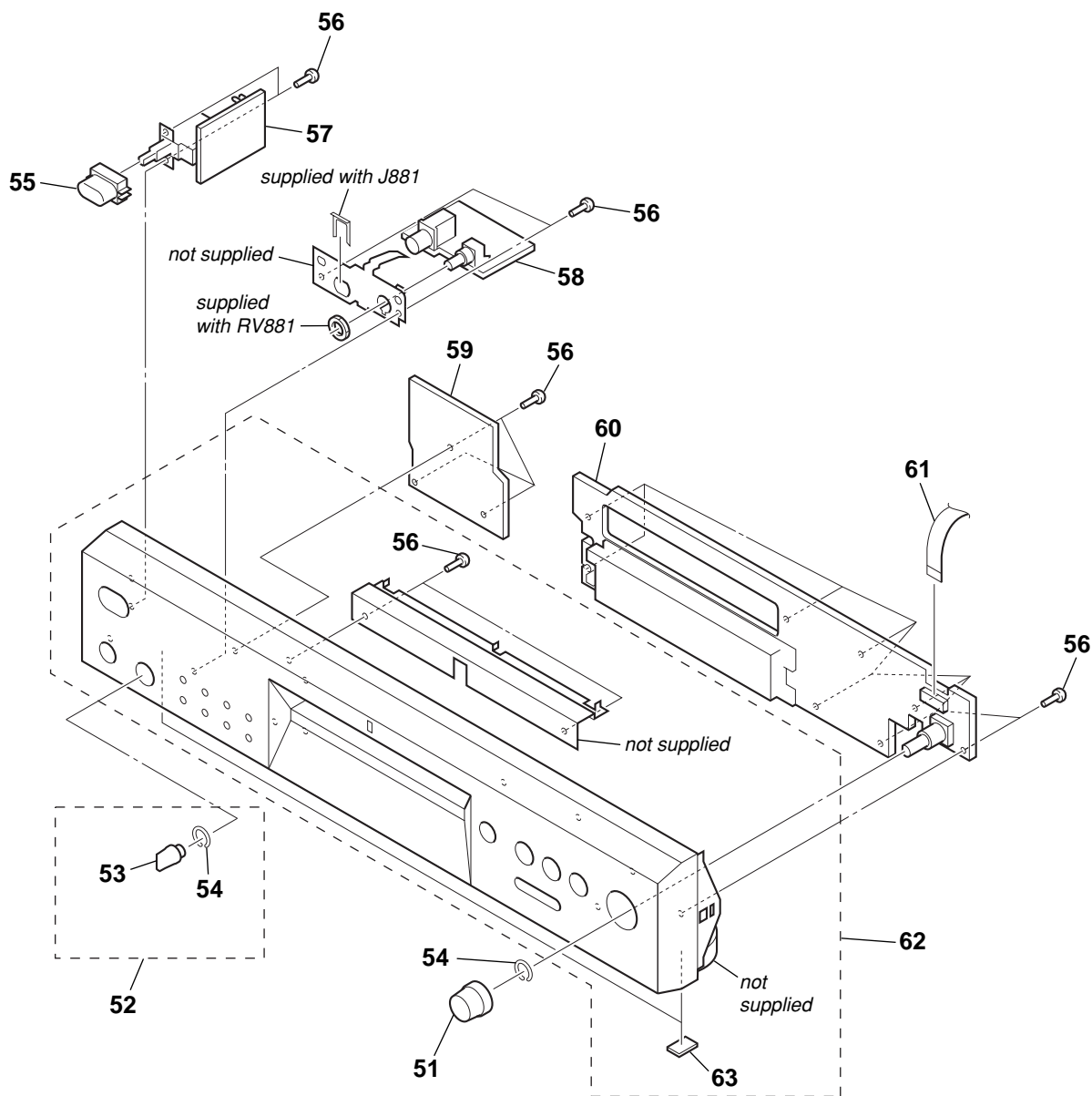
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

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

6-1. CASE SECTION

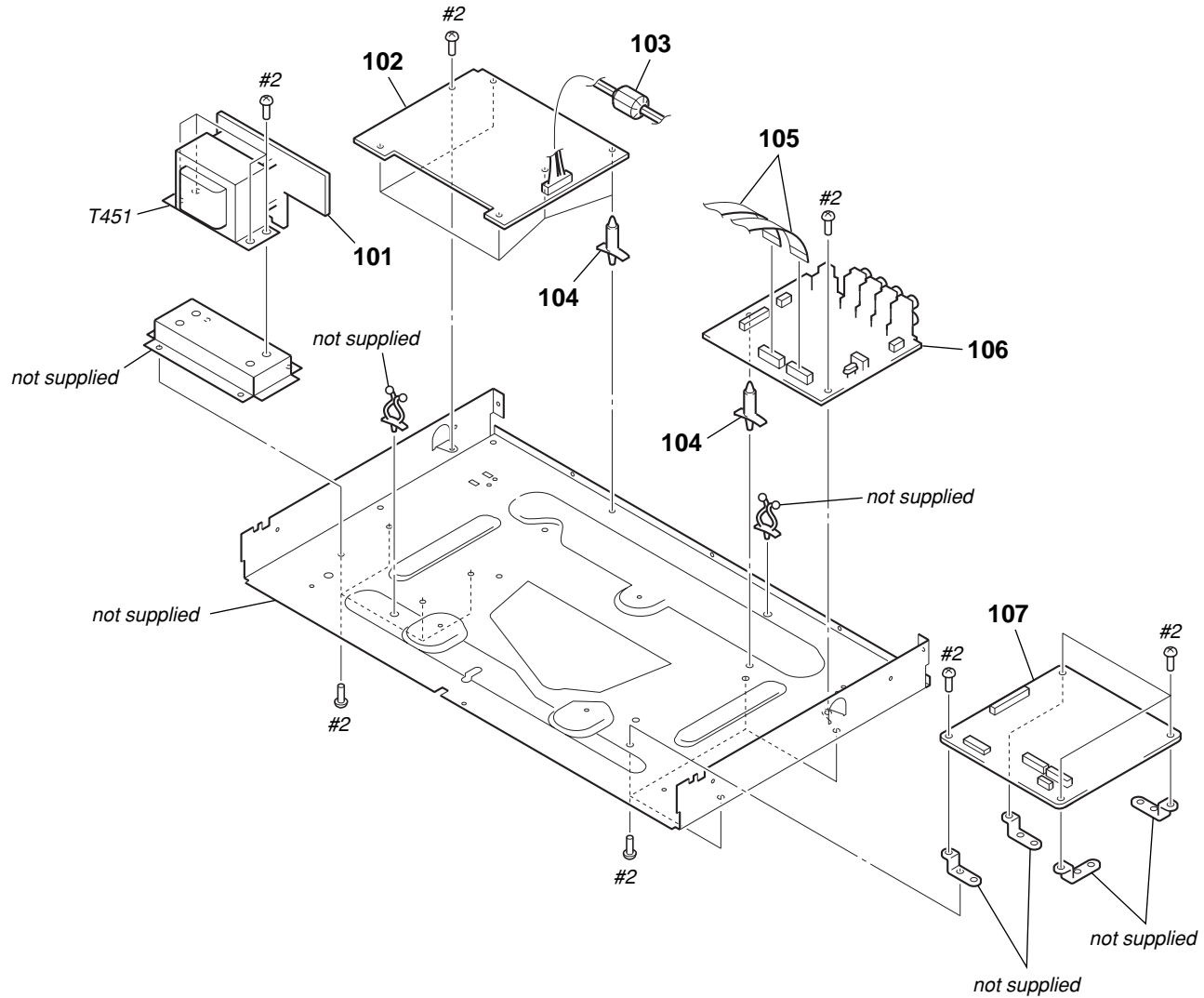
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-4953-788-1	PANEL ASSY, LOADING (BLACK)		7	4-232-149-31	CASE (408226) (BLACK)	
1	X-4953-790-1	PANEL ASSY, LOADING (SILVER)		7	4-232-580-31	CASE (408226) (SILVER)	
2	3-704-515-21	SCREW (BV/RING)		8	4-234-033-02	PANEL, BACK (AEP, UK)	
3	1-757-772-12	WIRE (FLAT TYPE) (30 CORE)		8	4-234-033-22	PANEL, BACK (US)	
* 4	3-703-244-00	BUSHING (2104), CORD		8	4-234-033-42	PANEL, BACK (CND)	
\triangle 5	1-777-071-61	CORD, POWER (AEP, UK)		9	3-704-515-31	SCREW (BV/RING)	
\triangle 5	1-783-531-31	CORD, POWER (US, CND)		10	X-4953-448-1	FOOT ASSY	
6	4-210-291-01	SCREW (CASE 3 TP2) (BLACK)		11	4-232-237-01	FOOT (DIA. 30)	
6	4-210-291-11	SCREW (CASE 3 TP2) (SILVER)		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					

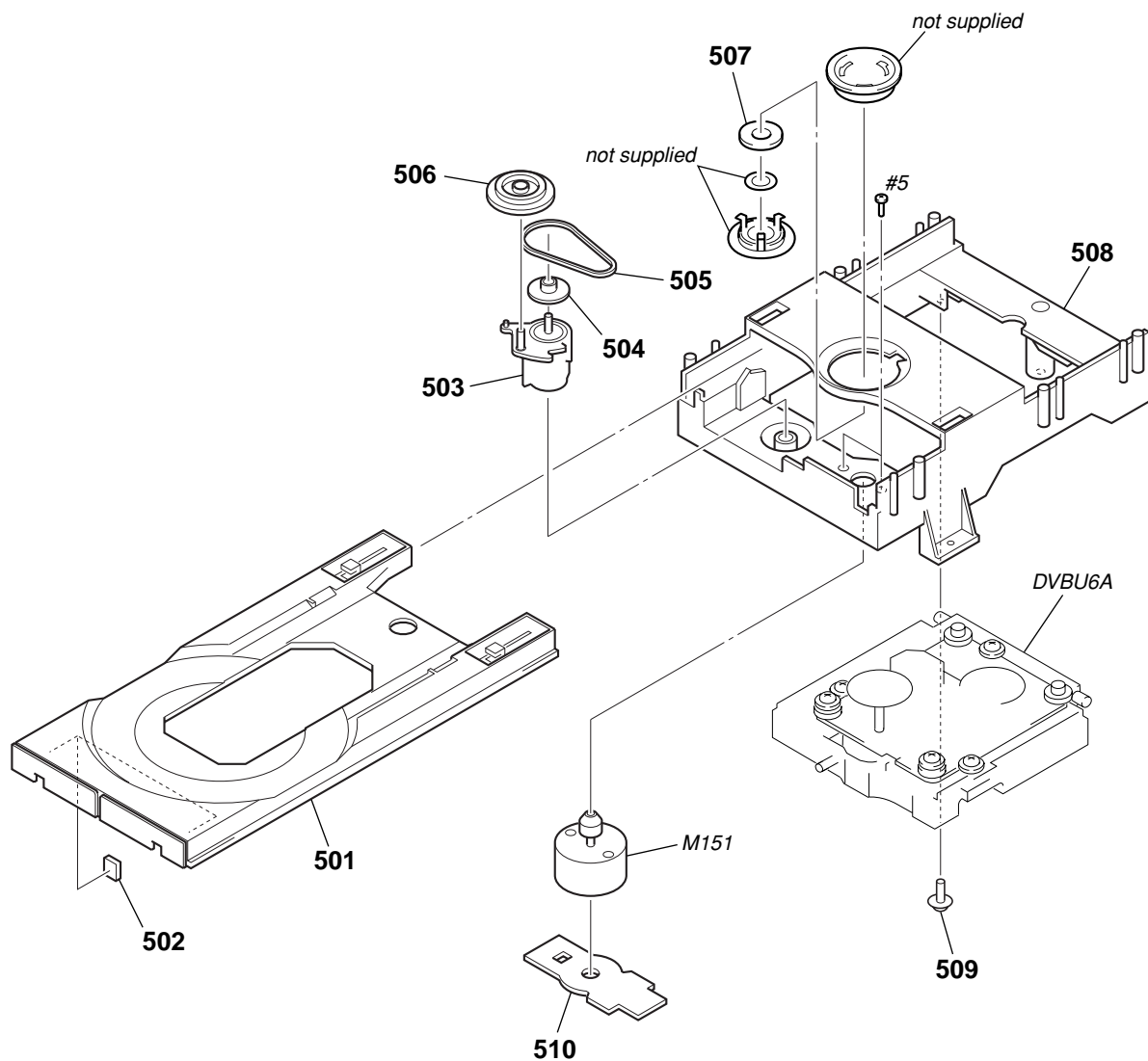
6-3. CHASSIS SECTION



<p>The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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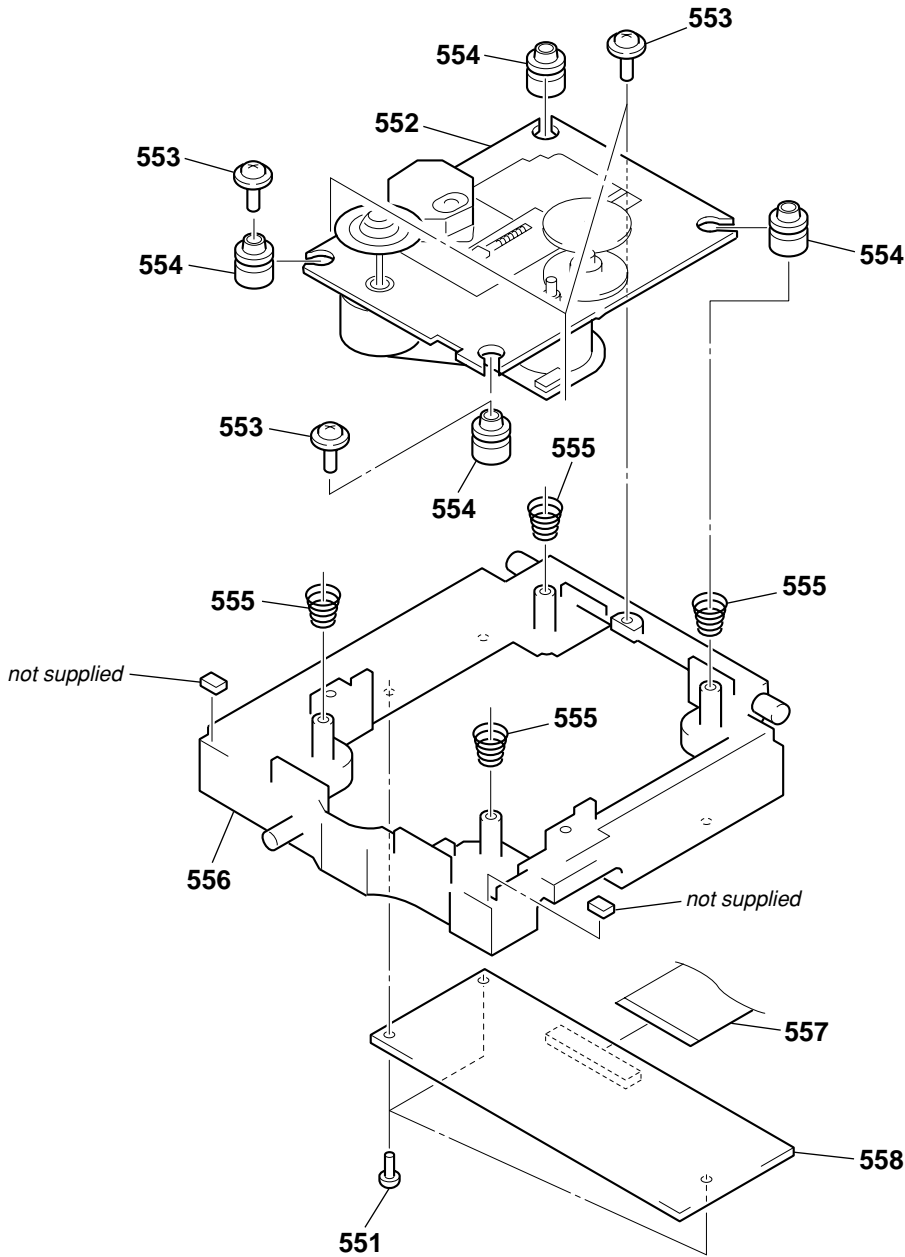
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	1-681-752-11	PT BOARD		106	A-4726-122-A	AUDIO BOARD, COMPLETE (US, CND)	
102	A-4726-118-A	POWER BOARD, COMPLETE (US, CND)		106	A-4726-137-A	AUDIO BOARD, COMPLETE (UK)	
102	A-4726-132-A	POWER BOARD, COMPLETE (UK)		106	A-4726-144-A	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)		Δ T451	1-437-343-11	TRANSFORMER, POWER (US, CND)	
* 104	4-954-051-51	HOLDER, PC BOARD		Δ 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 \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>
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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	
\triangle 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

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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
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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				
C795	1-126-206-11	ELECT CHIP	100uF 20% 6.3V				
C796	1-115-156-11	CERAMIC CHIP	1uF 10V				
C797	1-126-246-11	ELECT CHIP	220uF 20% 4V				
C798	1-164-156-11	CERAMIC CHIP	0.1uF 25V				
C799	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C800	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C802	1-125-822-11	TANTALUM	10uF 20% 10V				
C803	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C804	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C807	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C808	1-162-927-11	CERAMIC CHIP	100PF 5% 50V				
C809	1-125-822-11	TANTALUM	10uF 20% 10V				
C810	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C811	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C812	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C813	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C815	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C817	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C818	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C819	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C837	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C838	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C839	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C840	1-125-822-11	TANTALUM	10uF 20% 10V				
C841	1-125-822-11	TANTALUM	10uF 20% 10V				
C842	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C843	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C846	1-126-206-11	ELECT CHIP	100uF 20% 6.3V				
C847	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V				
C848	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C849	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C850	1-162-945-11	CERAMIC CHIP	22PF 5% 50V				
C851	1-162-945-11	CERAMIC CHIP	22PF 5% 50V				
C852	1-162-945-11	CERAMIC CHIP	22PF 5% 50V				
C854	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C855	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C856	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C857	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C858	1-126-206-11	ELECT CHIP	100uF 20% 6.3V				
C860	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C861	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C865	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C866	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C867	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C870	1-164-677-11	CERAMIC CHIP	0.033uF 10% 16V				
C871	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C901	1-125-822-11	TANTALUM	10uF 20% 10V				
C902	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C903	1-125-822-11	TANTALUM	10uF 20% 10V				
C904	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C905	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C906	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C907	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
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				
C911	1-125-822-11	TANTALUM	10uF 20% 10V				
C912	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C913	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C914	1-125-822-11	TANTALUM	10uF 20% 10V				
C915	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C916	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C917	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C918	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C920	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C921	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C922	1-125-837-11	CERAMIC CHIP	1uF 10% 6.3V				
C923	1-125-837-11	CERAMIC CHIP	1uF 10% 6.3V				
C924	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C929	1-125-822-11	TANTALUM	10uF 20% 10V				
C930	1-125-837-11	CERAMIC CHIP	1uF 10% 6.3V				
C933	1-125-837-11	CERAMIC CHIP	1uF 10% 6.3V				
C934	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C935	1-125-837-11	CERAMIC CHIP	1uF 10% 6.3V				
C936	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V				
C937	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V				
C938	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V				
C939	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V				
C940	1-162-927-11	CERAMIC CHIP	100PF 5% 50V				
C941	1-125-837-11	CERAMIC CHIP	1uF 10% 6.3V				
C942	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V				
C943	1-125-837-11	CERAMIC CHIP	1uF 10% 6.3V				
C944	1-125-837-11	CERAMIC CHIP	1uF 10% 6.3V				
C945	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V				
C946	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V				
C947	1-125-822-11	TANTALUM	10uF 20% 10V				
C948	1-107-682-11	CERAMIC CHIP	1uF 10% 16V				
C949	1-107-682-11	CERAMIC CHIP	1uF 10% 16V				
C951	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V				
C952	1-107-682-11	CERAMIC CHIP	1uF 10% 16V				
C953	1-107-682-11	CERAMIC CHIP	1uF 10% 16V				
C962	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C963	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V				
< CONNECTOR >							
CN701	1-778-691-11	CONNECTOR, FFC/FPC 19P					
CN702	1-778-691-11	CONNECTOR, FFC/FPC 19P					
CN703	1-793-687-11	PIN, CONNECTOR (1.5mm) (SMD) 5P					
CN704	1-815-348-11	PIN, CONNECTOR (PC BOARD) 6P					
CN706	1-784-371-21	CONNECTOR, FFC/FPC 12P					
CN707	1-815-347-11	PIN, CONNECTOR (PC BOARD) 12P					
CN708	1-784-386-21	CONNECTOR, FFC/FPC 30P					
CN709	1-793-687-11	PIN, CONNECTOR (1.5mm) (SMD) 5P					
< DIODE >							
D903	8-719-049-09	DIODE 1SS367-T3SONY					
D904	8-719-049-09	DIODE 1SS367-T3SONY					
< FERRITE BEAD >							
FB701	1-469-835-21	FERRITE 0uH					
FB703	1-500-283-11	FERRITE 0uH					
FB704	1-500-283-11	FERRITE 0uH					
FB705	1-469-835-21	FERRITE 0uH					

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	Quantity	Unit Price	Remark	Ref. No.	Part No.	Description	Quantity	Unit Price	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
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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	

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)	

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