

SCD-XA1200ES

SERVICE MANUAL

AEP Model

Ver. 1.1 2007.07



Model Name Using Similar Mechanism	SCD-XE597
CD Mechanism Type	CDM66D-DVBU50
Base Unit Name	DVBU50
Optical Traverse Unit Name	DBU-3

SPECIFICATIONS

When a Super Audio CD is played

Playing frequency range	2 Hz to 100 kHz
Frequency response	2 Hz to 40 kHz (−3 dB)
Dynamic range	100 dB or more
Total harmonic distortion rate	0.003 % 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	96 dB or more
Total harmonic distortion rate	0.0035 % or less
Wow and flutter	Value of measurable limit (±0.001 % W. PEAK) or less

Output connectors

	Jack type	Output level	Load impedance
ANALOG OUT	Phono jacks	2 Vrms (at 50 kilohms)	Over 10 kilohms
DIGITAL (CD) OUT OPTICAL*	Square optical output connector	−18 dBm	(Light emitting wave length: 660 nm)
DIGITAL (CD) OUT COAXIAL*	Coaxial output connector	0.5 Vp-p	75 ohms
PHONES	Stereo phone jack	5 mW	32 ohms

* Output only the audio signals of the CD

General

Laser	Semiconductor laser (Super Audio CD: $\lambda = 650$ nm) (CD: $\lambda = 780$ nm) Emission duration: continuous
Power requirements	230 V AC, 50/60 Hz
Power consumption	15 W
Dimensions (w/h/d)	430 × 124 × 390 mm incl. projecting parts
Mass (approx.)	7.2 kg

Supplied accessories

Audio connecting cord	Red and White × 2 (2) Black × 1 (2)
Remote commander	RM-ASU001 (1)
Battery	R6 (size-AA) (2)

Design and specifications are subject to change without notice.

SUPER AUDIO CD PLAYER

Notes on chip component replacement

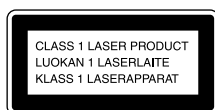
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION

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



This appliance is classified as a CLASS 1 LASER product. This marking is located on the rear exterior.

TABLE OF CONTENTS

1. SERVICING NOTES	3
2. GENERAL	4
3. DISASSEMBLY	
3-1. Disassembly Flow	5
3-2. Case	5
3-3. Loading Panel Assy	6
3-4. Mechanism Deck (CDM66D-DVBU50)	6
3-5. MAIN Board	7
3-6. Front Panel Assy	7
3-7. Base Unit (DVBU50)	8
3-8. WALTZ-RF Board, Optical Traverse Unit (DBU-3)	8
3-9. Loading Board, Motor (L) Assy (Loading) (M151)	9
3-10. Harness Setting	9
4. TEST MODE	10
5. ELECTRICAL ADJUSTMENTS	12
6. DIAGRAMS	
6-1. Block Diagram – MAIN Section –	14
6-2. Block Diagram – AMP Section –	15
6-3. Block Diagram – PANEL/POWER SUPPLY Section –	16
6-4. Printed Wiring Board – WALTZ-RF Board –	18
6-5. Schematic Diagram – WALTZ-RF Board –	19
6-6. Printed Wiring Board – MAIN Section (1/2) –	20
6-7. Printed Wiring Boards – MAIN Section (2/2) –	21
6-8. Schematic Diagram – MAIN Section (1/5) –	22
6-9. Schematic Diagram – MAIN Section (2/5) –	23
6-10. Schematic Diagram – MAIN Section (3/5) –	24
6-11. Schematic Diagram – MAIN Section (4/5) –	25
6-12. Schematic Diagram – MAIN Section (5/5) –	26
6-13. Schematic Diagram – DISPLAY Board –	27
6-14. Printed Wiring Boards – PANEL Section –	28
6-15. Printed Wiring Boards – POWER SUPPLY Section –	29
6-16. Schematic Diagram – KEY/POWER SUPPLY Section –	30
7. EXPLODED VIEWS	
7-1. Overall Section	42
7-2. DISPLAY Board Section	43
7-3. Front Panel Section	44
7-4. MAIN Board Section	45
7-5. Mechanism Deck Section (CDM66D-DVBU50)	46
7-6. Optical Pick-up Section (DVBU50)	47
8. ELECTRICAL PARTS LIST	48

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.

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.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350 °C.

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.

- Usable with ordinary solder

It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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.

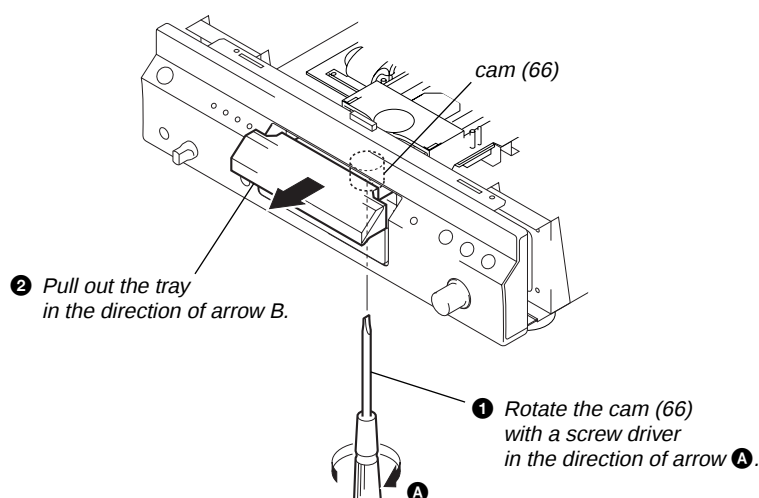
MODE SETTING FOR SHIPPING

Perform this setting when the EEPROM (IC702) on the MAIN board is replaced.

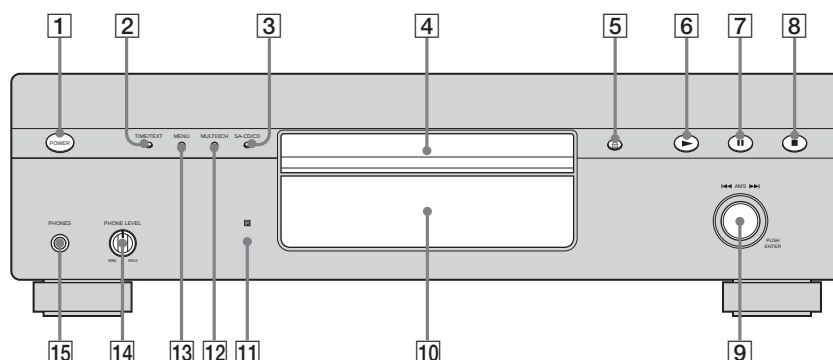
Procedure:

1. While pressing the **[MENU]** button and **[◀ AMS ▶]** jog press the **[POWER]** button to turn the power on and enter the test mode and display "DIAG MODE".
2. **[◀ AMS ▶]** jog is turned and "8D" is selected.
3. **[◀ AMS ▶]** jog is pressed and "INIT START" is displayed.
4. Then confirm "INITIAL OK" is displayed.
5. Press the **[POWER]** button to turn the power off.
6. Press the **[POWER]** button to turn the power on.
7. Press the **[MENU]** button.
8. **[◀ AMS ▶]** jog is turned and "M/2ch SEL" is selected.
9. **[◀ AMS ▶]** jog is pressed.
10. **[◀ AMS ▶]** jog is turned and "SEL - 2ch" is selected.
11. **[◀ AMS ▶]** jog is pressed.
12. Press the **[POWER]** button to turn the power off.

HOW TO OPEN THE TRAY WHEN POWER SWITCH TURNS OFF



Front Panel

**1 POWER switch****2 TIME/TEXT button**

Each time you press the button, the playing time of the track, the remaining time of the disc, or TEXT information appears in the display.

3 SA-CD/CD button

Each time you press the button while playing back a hybrid disc, the layer to be played back switches between the Super Audio CD layer and the CD layer.

4 Disc tray**5 Disc tray cover****6 ► button****7 || button****8 ■ button****9 ◀▶ AMS ▶▶I dial (AMS: Automatic Music Sensor)****10 Display window****11 Remote sensor****12 MULTI/2CH button**

Press to select the playback area when a disc with the 2 channel area and the multi-channel area is loaded.

13 MENU button

Press to enter the menu.

Press to exit from the menu and return to the normal display.

14 PHONE LEVEL

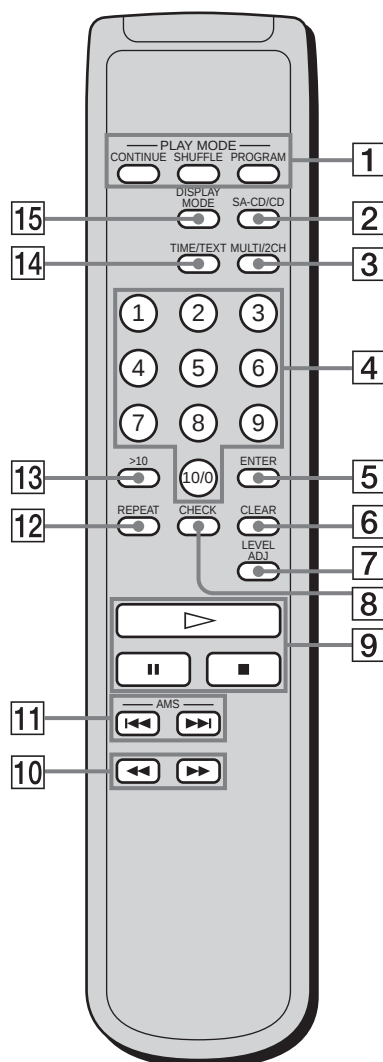
Adjust the headphones volume.

15 PHONES

Connect the headphones.

During playback of a Multi-channel Super Audio CD, the same signal that is output from the ANALOG 5.1CH FRONT L/R jacks is output from the PHONES jack.

Remote

**1 CONTINUE button**

Press to resume Continuous Play from Shuffle Play or Program Play.

SHUFFLE button**PROGRAM button****2 SA-CD/CD button**

Each time you press the button while playing back a hybrid disc, the layer to be played back switches between the Super Audio CD layer and the CD layer.

3 MULTI/2CH button

Press to select the playback area when a disc with the 2 channel area and the multi-channel area is loaded.

4 Number buttons

Press to enter the track numbers.

5 ENTER button**6 CLEAR button**

Press to delete a programmed track number.

7 LEVEL ADJ button

Press to adjust the output level balance for the Multi-channel management function.

8 CHECK button

Press to check the programmed order.

9 ► button**|| button****■ button****10 ◀▶ buttons****11 AMS ◀▶/▶▶I buttons (AMS: Automatic Music Sensor)****12 REPEAT button****13 >10 button**

Press to locate a track numbered over 10.

14 TIME/TEXT button

Each time you press the button, the playing time of the track, the remaining time of the disc, or TEXT information appears in the display.

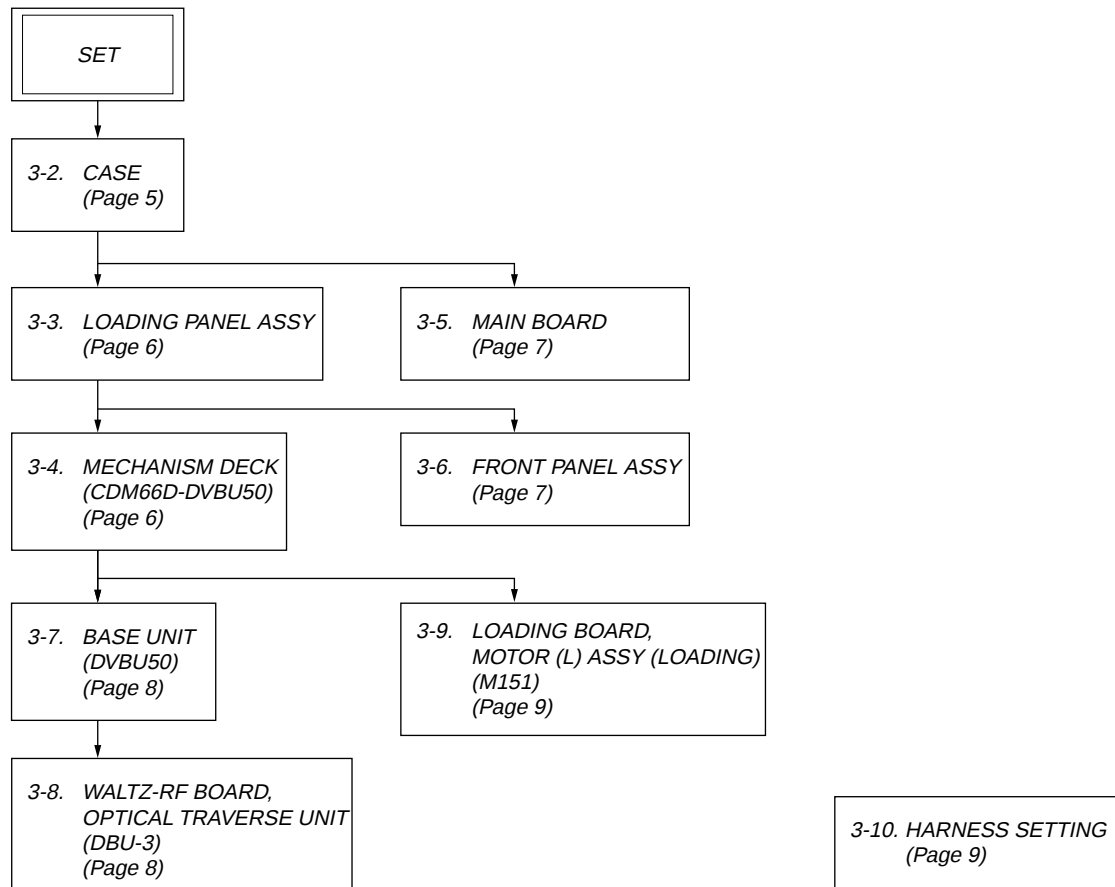
15 DISPLAY MODE button

Press to turn the display information off or on.

SECTION 3 DISASSEMBLY

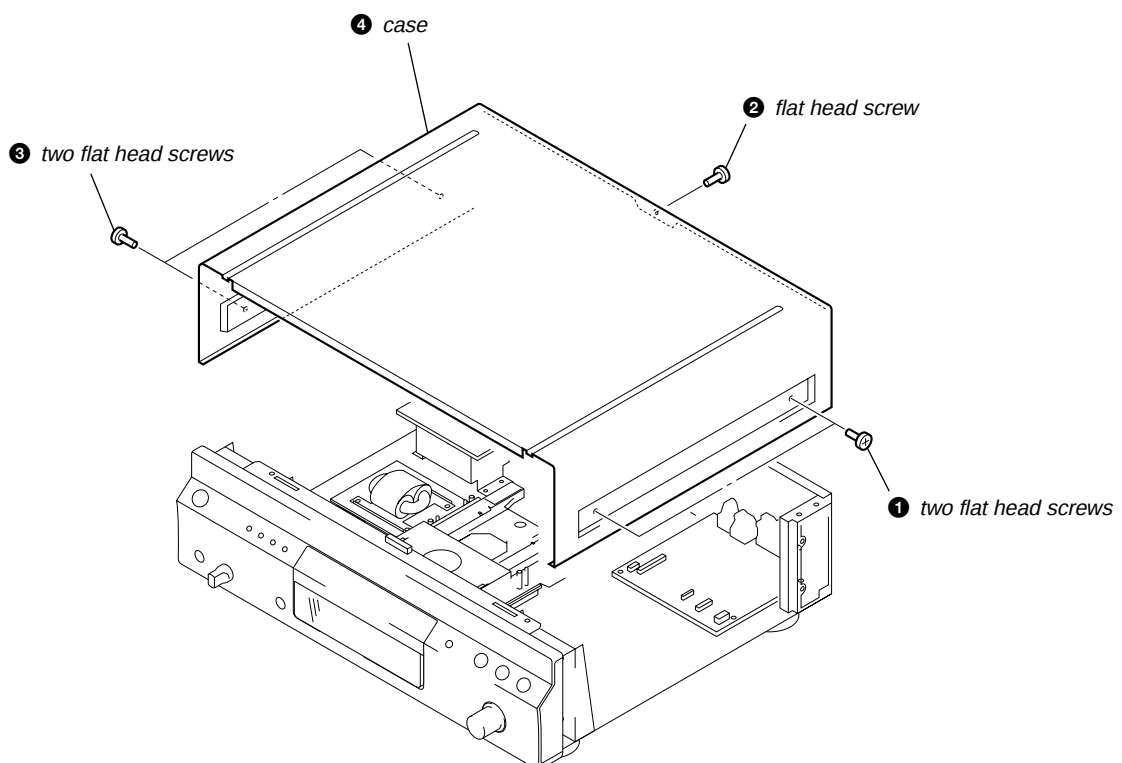
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

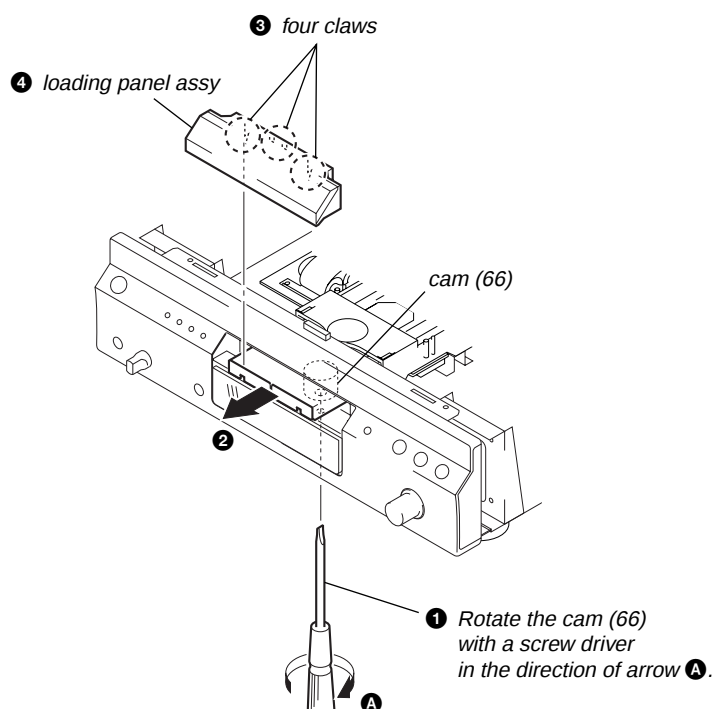


Note: Follow the disassembly procedure in the numerical order given.

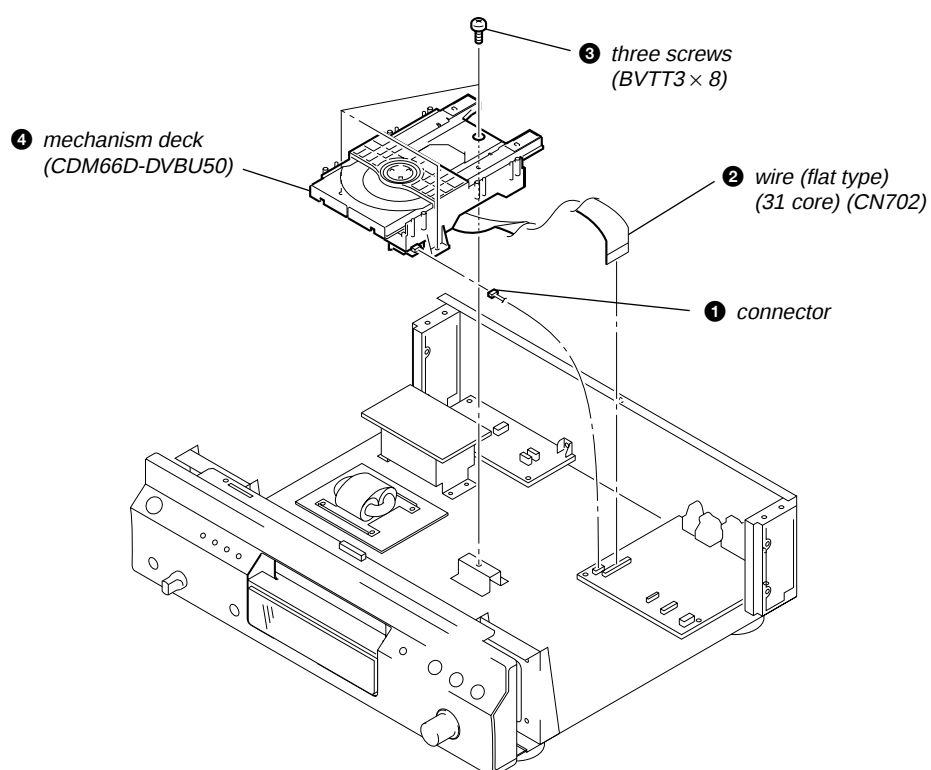
3-2. CASE



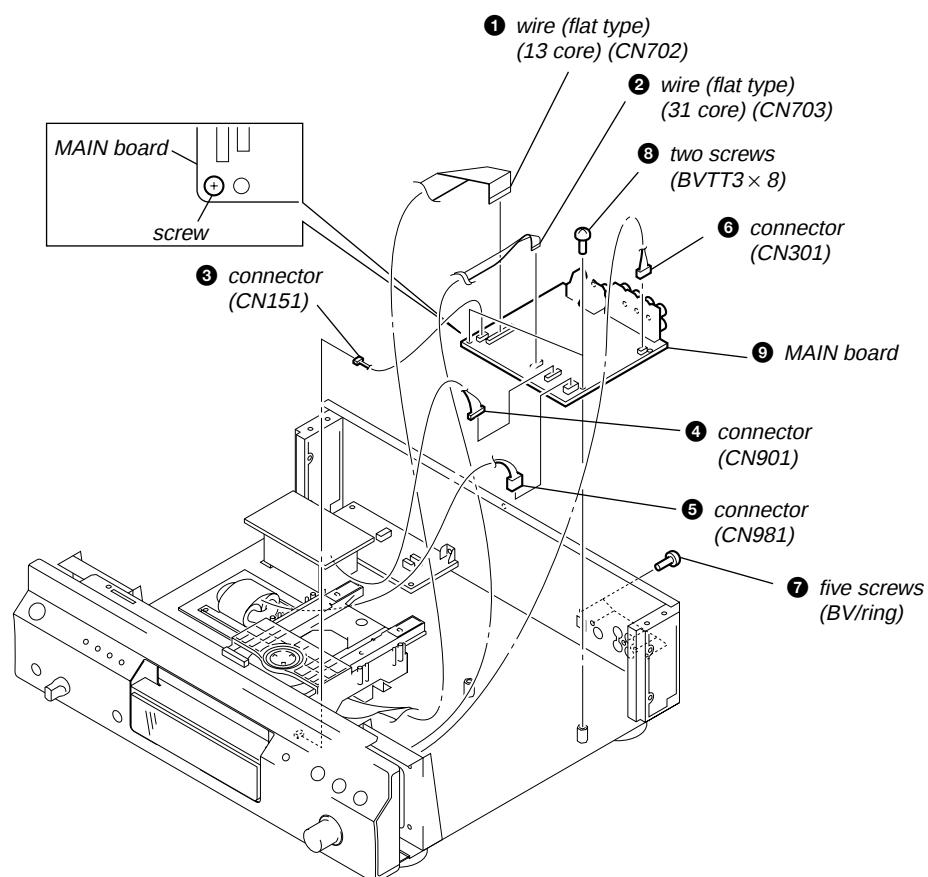
3-3. LOADING PANEL ASSY



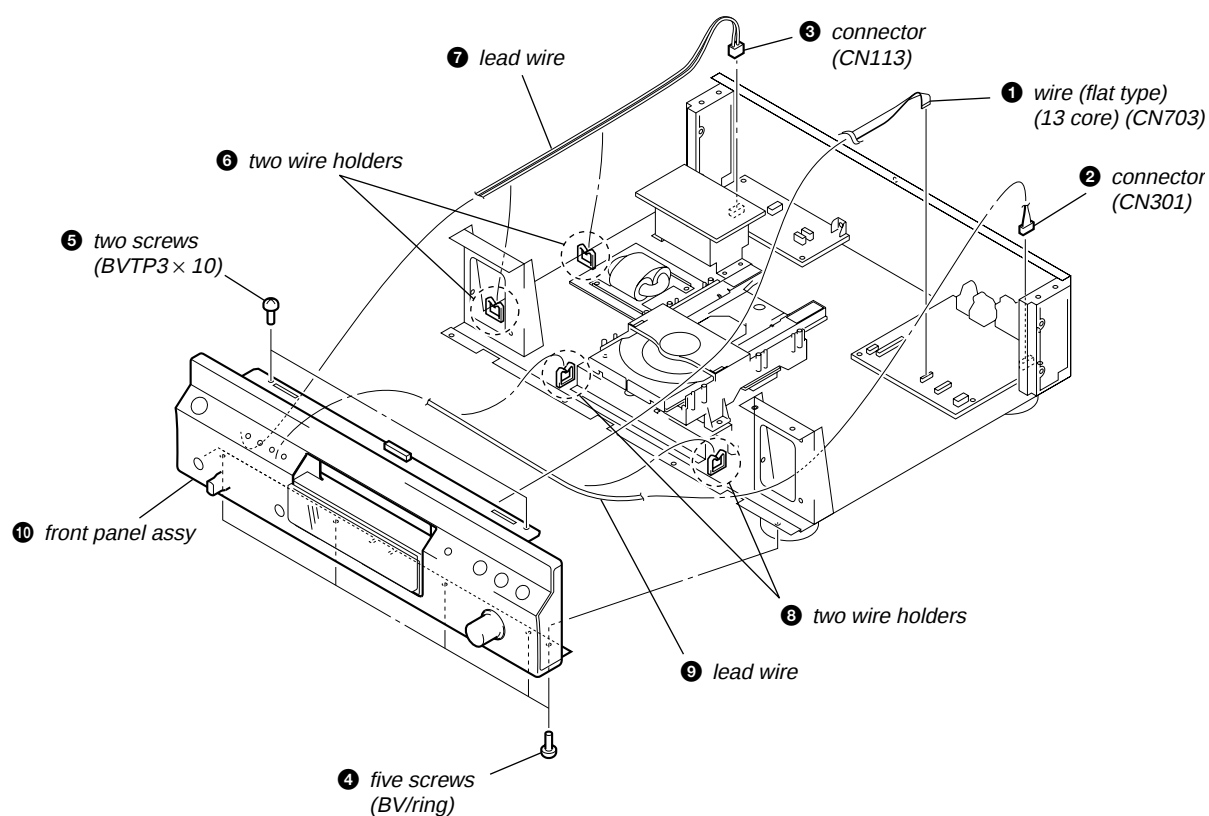
3-4. MECHANISM DECK (CDM66D-DVBU50)



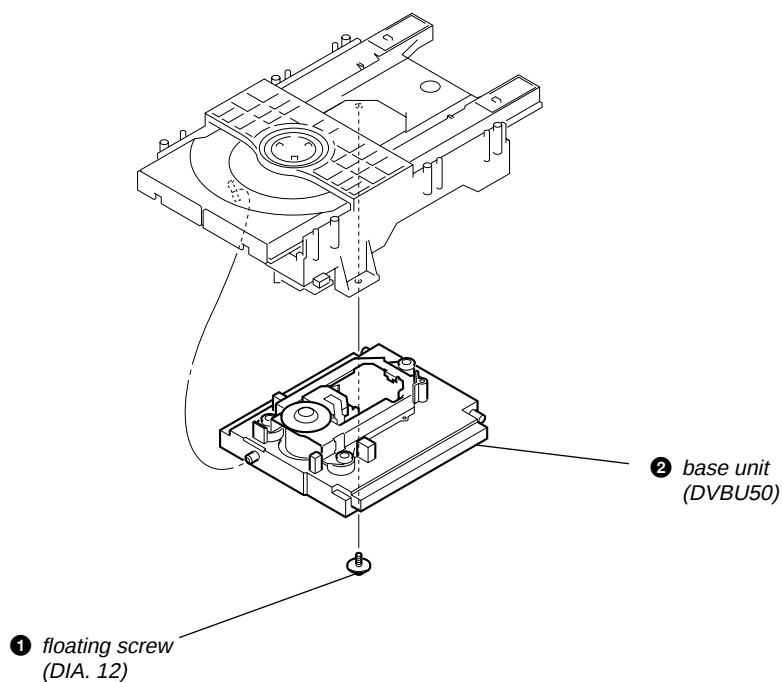
3-5. MAIN BOARD



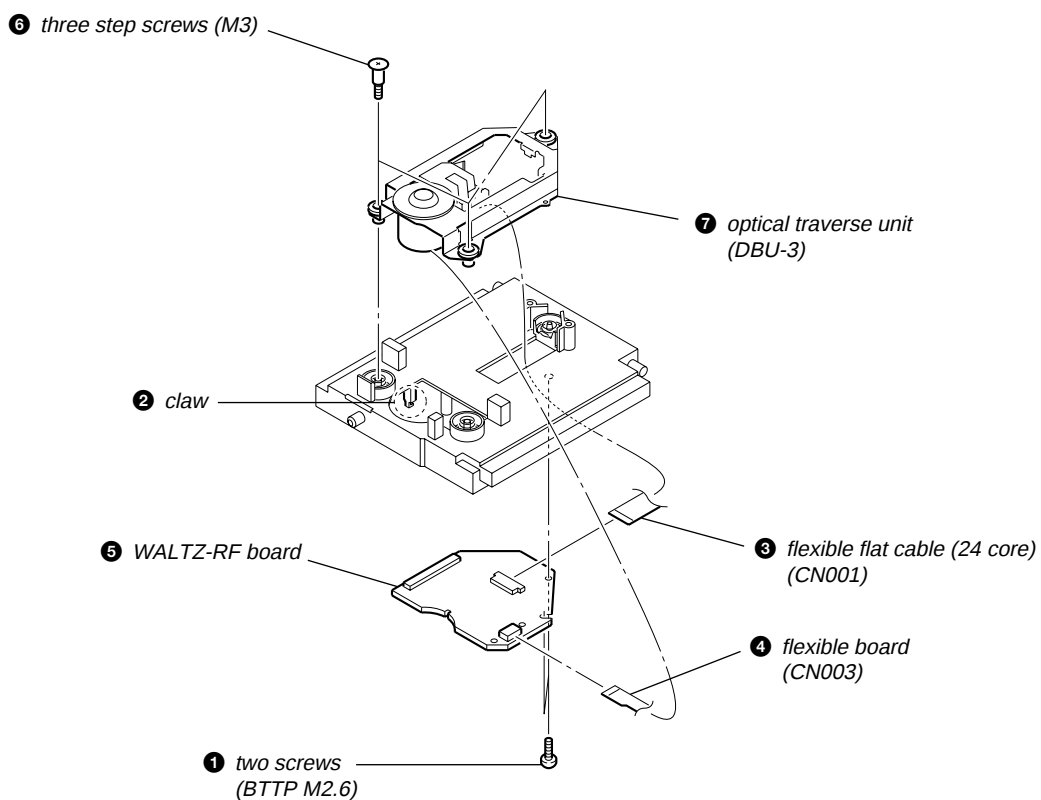
3-6. FRONT PANEL ASSY



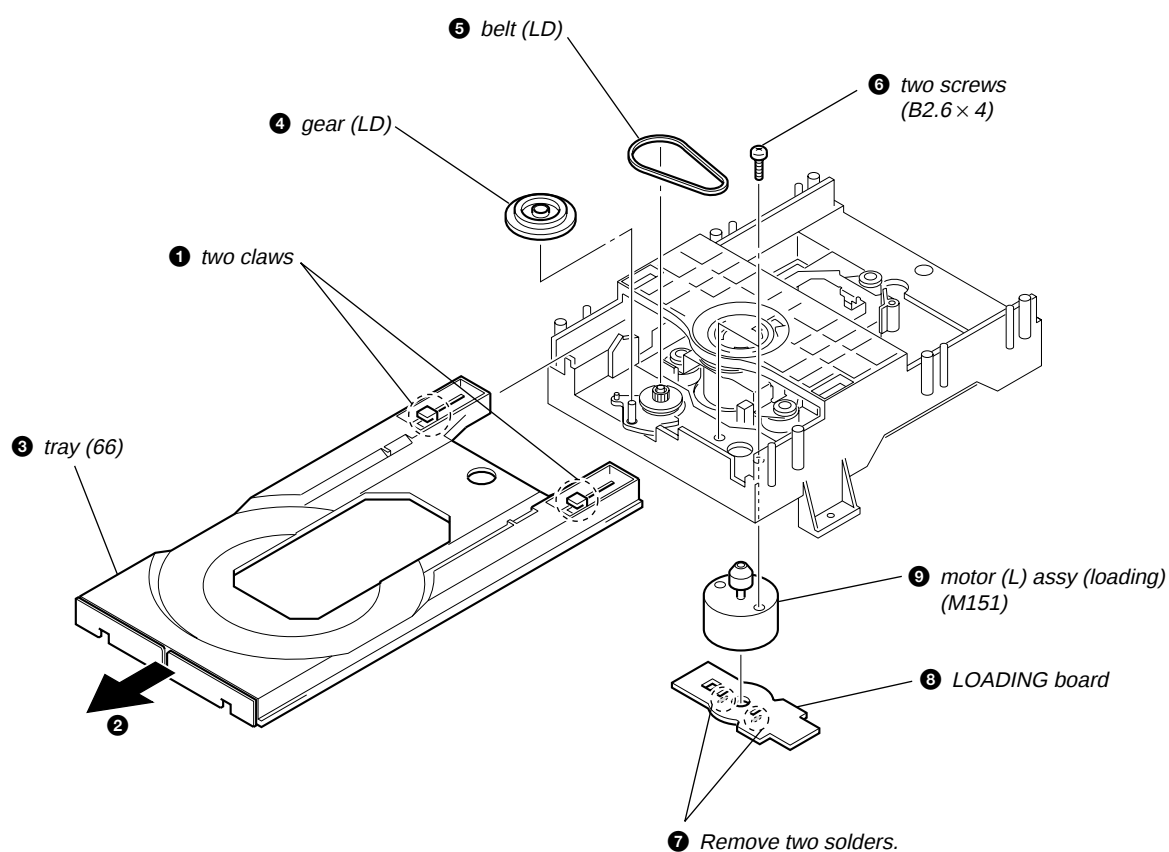
3-7. BASE UNIT (DVBU50)



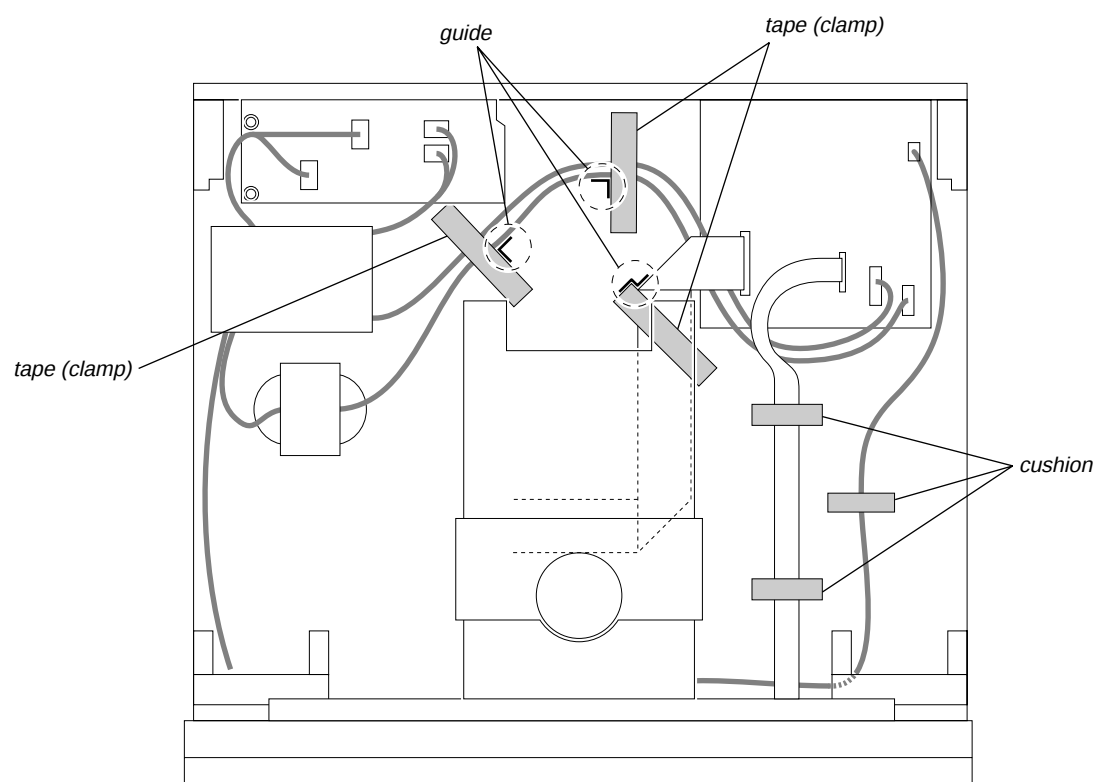
3-8. WALTZ-RF BOARD, OPTICAL TRAVERSE UNIT (DBU-3)



3-9. LOADING BOARD, MOTOR (L) ASSY (LOADING) (M151)



3-10. HARNESS SETTING



SECTION 4 TEST MODE

PANEL CHECK MODE

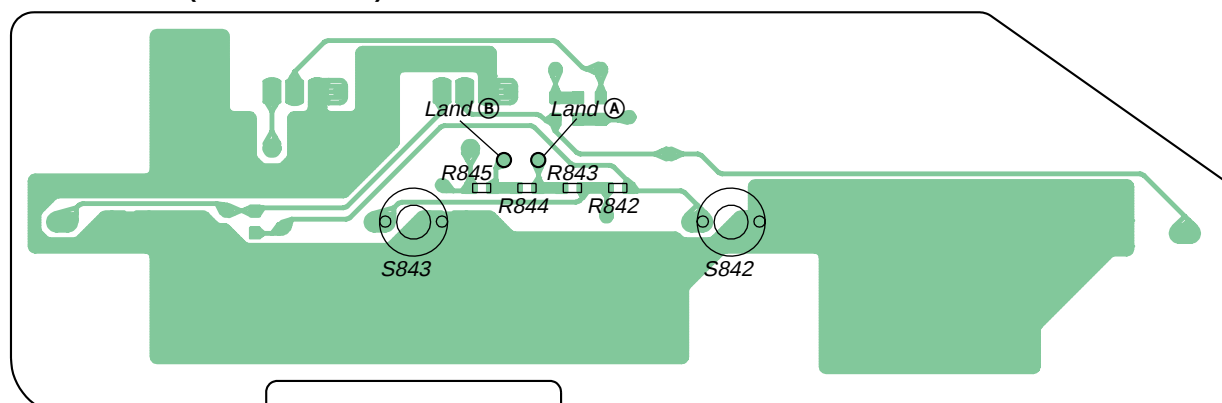
Procedure:

1. While shorting the land ① of the figure below and ground, and pressing the [◀◀ AMS ▶▶] knob, press the [POWER] button to turn the power on.
2. When enter the panel check mode, fluorescent indicator tube and LEDs all light up for 5 seconds. Then, the pattern is each grid is displayed, and it is displayed at the end as "SIRCS CHECK".
3. Press the [▶] key of remote commander to enter the key check mode and display "KEY CHECK 12".^(*)
4. Each button is pressed or each land of the figure below is shorted, the display number of "KEY CHECK" decreases.
5. All operations is performed, release the key check mode and enter the jog check mode, then display "JOG CHECK".
6. Turn the [◀◌ AMS ▶▶] knob clockwise until "15" is displayed on the calendar area.
7. Turn the [◀◌ AMS ▶▶] knob counterclockwise until "1" is black out on the calendar area and jog check is OK and display "TEST-END".
8. Press the [POWER] button to turn the power off and release the panel check mode.

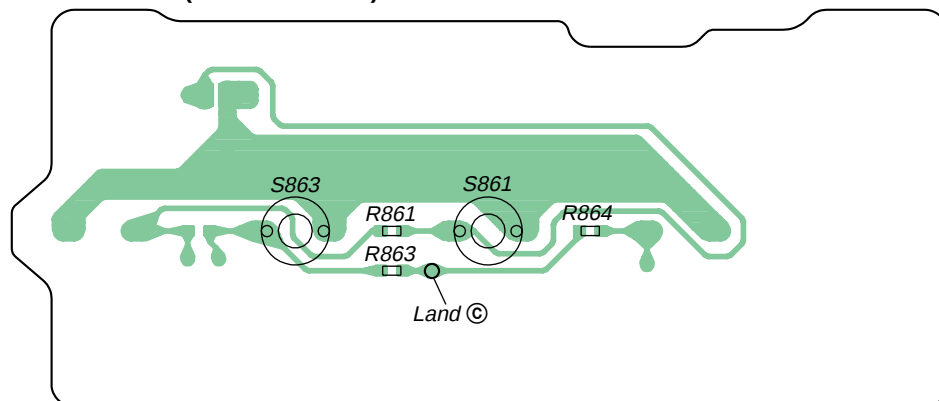
*1) If press the [■] key, it displays "KEY CHECK 19". However, this mode is for the model with changer. Therefore, it does not become OK unless 19 buttons are pressed. If entered to this mode by mistake, press the [POWER] button to turn the power off and repeat operation form step 1.

Land Location:

– KEY-R Board (Conductor Side) –



– KEY-L Board (Conductor Side) –



TEST MODE

1. Entering The Test Mode

While press the **[MENU]** button and **[◀◀ AMS ▶▶]** knob, press the **[POWER]** button to turn the power on and enter the test mode and display “DIAG MODE”.

2. Operating The Test Mode

Procedure:

1. Turn the **[◀◀ AMS ▶▶]** knob to select the command number (hexadecimal number) (refer to the following table for command number).
2. Press the **[◀◀ AMS ▶▶]** knob to execute the selected command item.

3. Releasing The Test Mode

Press the **[POWER]** button to turn the power off.

4. The Commands in Test Mode

Command No.	Command name	Item
12	LD ON/OFF	Turn on/off the laser diode
13	SPIN ON/OFF	Turn on/off the spindle motor
14	FSRV ON/OFF	Turn on/off the focus servo
15	TSRV ON/OFF	Turn on/off the tracking servo
16	CLV ON/OFF	Turn on/off the spindle CLV servo, when both focus servo and tracking servo are on
17	SSRV ON/OFF	Turn on/off the spindle CLV servo, when all servo of focus servo, tracking servo and spindle servo are on
18	ALL SRV ON	Turn on all servo
19	ALL SRV OFF	Turn off all servo
1A	DISC STOP	Stop the disc rotation (useful as overdrived)
24	ADJ FCSBIAS	Automatically adjust the focus bias (*2)
27	FOCUS AGC	Automatically adjust the focus servo gain (*2)
31	PI/FE OFFSET	Automatically adjust the offset signal of PI, PE and TE (*2)
45	TRACKING AGC	Automatically adjust the focus servo gain (*2)
61	DISC DETECT	Judge the disc type (when SA-CD, “SL” or “DL” is displayed)
7C	FJUMP TEST	Focus jump test mode
81	SYSTEM VERSION	Display the version of system microcomputer for 2 seconds
82	I/F VERSION	Display the version of IF microcomputer for 2 seconds
8D	SETUP	initialize (for AEP model)
8F	SETUP	initialize (for except AEP model)
92	ERR CHECK	Error rate display (to stop, press the [■] button) for CD display “92 C1 C2 FF” for SA-CD display “92 PI1 PO PI2”
93	WATER MARK	WaterMark display display “93 xxxx” (“xxxx” is value of pspamp)
9D	PLAY&RFD ON	Measuring the jitter (to stop, press the [■] button) display: “9D xx FF FF” (“xx” is measuring value of jitter)
B0	FFFF	The electrical adjustment value clear (*3)
B1	(Change value)	Writing of the electrical adjustment value (*3)
B2	(Change value)	Confirm of the electrical adjustment value (*3)

*2) Not used in servicing

*3) Only software version of the system 1.24 or later

SECTION 5

ELECTRICAL ADJUSTMENTS

Adjust it as follows after the optical traverse unit (DBU-3), WALTZ-RF board, MAIN board, master controller (IC705), SA-CD/CD decoder (IC706) and EEPROM (IC702) are replaced.

Adjustments Flow

1. ROM VERSION CHECK
 ↓ (software version of the system 1.24 or later)
 ↓ (software version of the system less than 1.24)
 ↓
2. U-CON CHECK
 ↓
3. OPTICAL SENSITIVITY CHECK
 ↓
4. MODE SETTING FOR SHIPPING (perform this mode only when EEPROM (IC702) is replaced)

1. ROM VERSION CHECK

Software version of the system is confirmed.

Procedure:

1. While pressing the [MENU] button and [◀◀ AMS ▶▶] jog press the [POWER] button to turn the power on and enter the test mode and display "DIAG MODE".
2. [◀◀ AMS ▶▶] jog is turned and "81" is selected.
3. [◀◀ AMS ▶▶] jog is pressed and software version of the system is displayed.
4. "SYS VER *.**" is displayed.
5. [◀◀ AMS ▶▶] jog is turned and "82" is selected.
6. [◀◀ AMS ▶▶] jog is pressed and I/F version is displayed.
7. "I/F VER *.**" is displayed.

2. U-CON CHECK (only software version of the system 1.24 or later)

When the software version of the system 1.24 or later, this checking must be performed before "3. OPTICAL SENSITIVITY CHECK" and "4. MODE SETTING FOR SHIPPING".

Procedure:

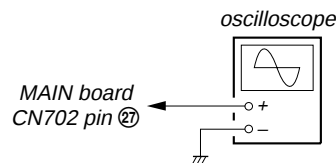
1. While pressing the [MENU] button and [◀◀ AMS ▶▶] jog press the [POWER] button to turn the power on and enter the test mode and display "DIAG MODE".
2. Insert the test disc (SATD-S5). (Part No. : J-2501-215-A)
3. [◀◀ AMS ▶▶] jog is turned and "B0" is selected.
4. [◀◀ AMS ▶▶] jog is pressed and confirm "FFFF" is displayed.
5. [◀◀ AMS ▶▶] jog is turned and "B1" is selected.
6. [◀◀ AMS ▶▶] jog is pressed and confirm "-9" is displayed. Then the value is changed and the value of four digits is displayed after "-0".
7. [◀◀ AMS ▶▶] jog is turned and "B2" is selected.
8. [◀◀ AMS ▶▶] jog is pressed and confirm the value of four digits is displayed. At this time, confirm the value displayed at the end is a specified value.

Specified Value: 08D0 to 04D0

9. Eject the test disc and press the [POWER] button to turn the power off.

3. OPTICAL SENSITIVITY CHECK

Connection:



Use the following hybrid disc on this check.

HLXA-509 (Part No. J-6090-090-A) or Super Audio CD Hybrid Disc (Market Disc)

Procedure:

1. Connect the oscilloscope to pin 27 of CN702 on the MAIN board.
2. Insert the test disc (HLXA-509) or Super Audio CD hybrid disc (market disc).
3. Confirm the waveform at that time because the disc is distinguished at chucking moment.
4. Confirm Δt of the shape of waves is a specified value.

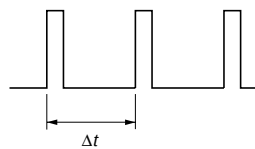
Specified Value: 7.5 ms to 9.7 ms

(software version of the system 1.24 or later)

6.9 ms to 9.7 ms

(software version of the system less than 1.24)

Waveform



5. When step 4 is NG, R892 and R893 on the MAIN board are changed and the waveform is measured again.
 In case of the specified value or more: Change R892 and R893 to 110 k Ω (part No. 1-218-896-11).
 In case of the specified value or less: Change R892 and R893 to 130 k Ω (part No. 1-218-898-11).
6. Eject the disc and turn the power off.

4. MODE SETTING FOR SHIPPING

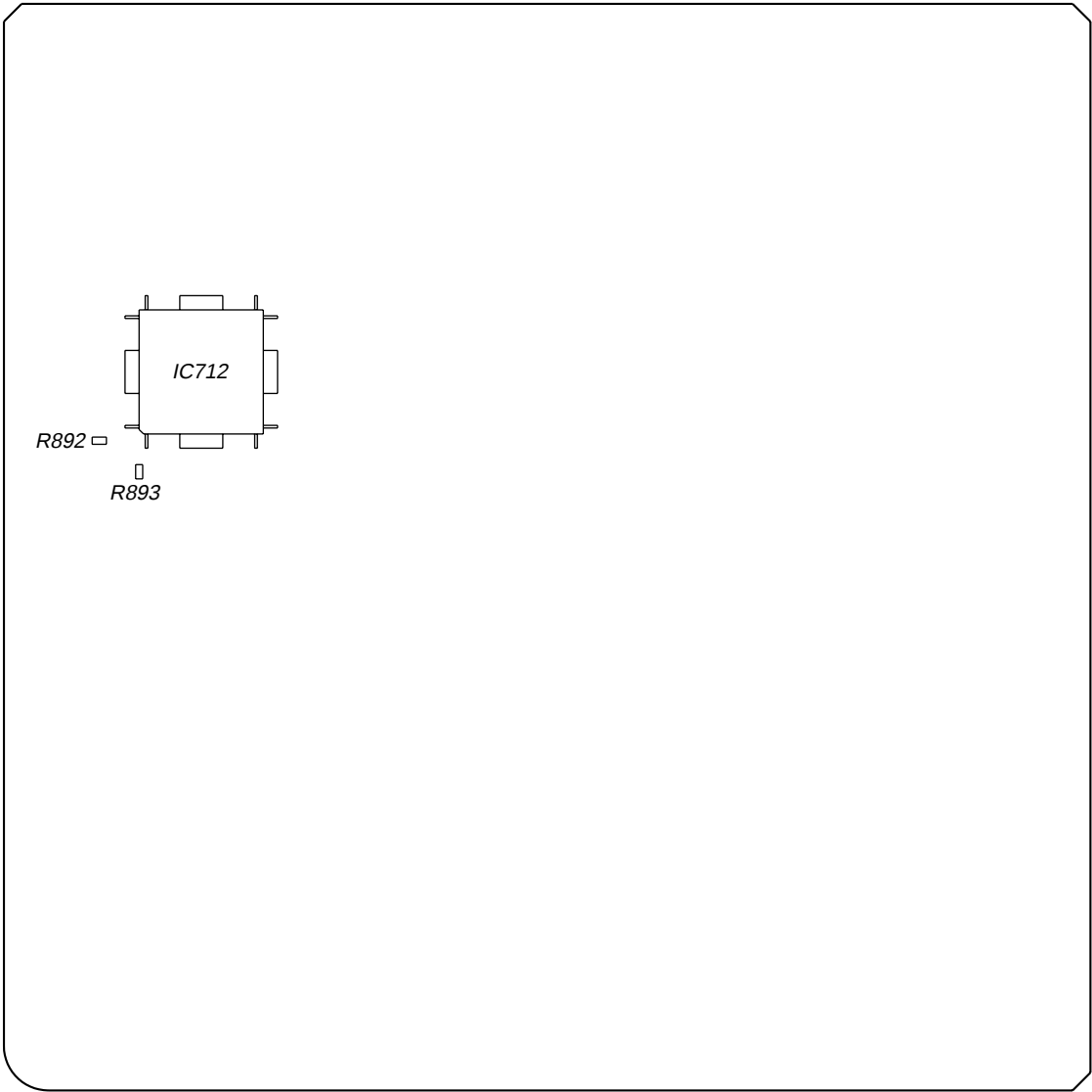
Perform this setting when the EEPROM (IC702) on the MAIN board is replaced.

Procedure:

- 1. While pressing the **MENU** button and **◀◀ AMS ▶▶** jog press the **POWER** button to turn the power on and enter the Test Mode and display “DIAG MODE”.
- 2. **◀◀ AMS ▶▶** jog is turned and “8F” is selected.
- 3. **◀◀ AMS ▶▶** jog is pressed and “INIT START” is displayed.
- 4. Then confrm “INITIAL OK” is displayed.
- 5. Press the **POWER** button to turn the power off.
- 6. Press the **POWER** button to turn the power on.
- 7. Press the **MENU** button.
- 8. **◀◀ AMS ▶▶** jog is turned and “M/2ch SEL” is selected.
- 9. **◀◀ AMS ▶▶** jog is pressed.
- 10. **◀◀ AMS ▶▶** jog is turned and “SEL – 2ch” is selected.
- 11. **◀◀ AMS ▶▶** jog is pressed.
- 12. Press the **POWER** button to turn the power off.

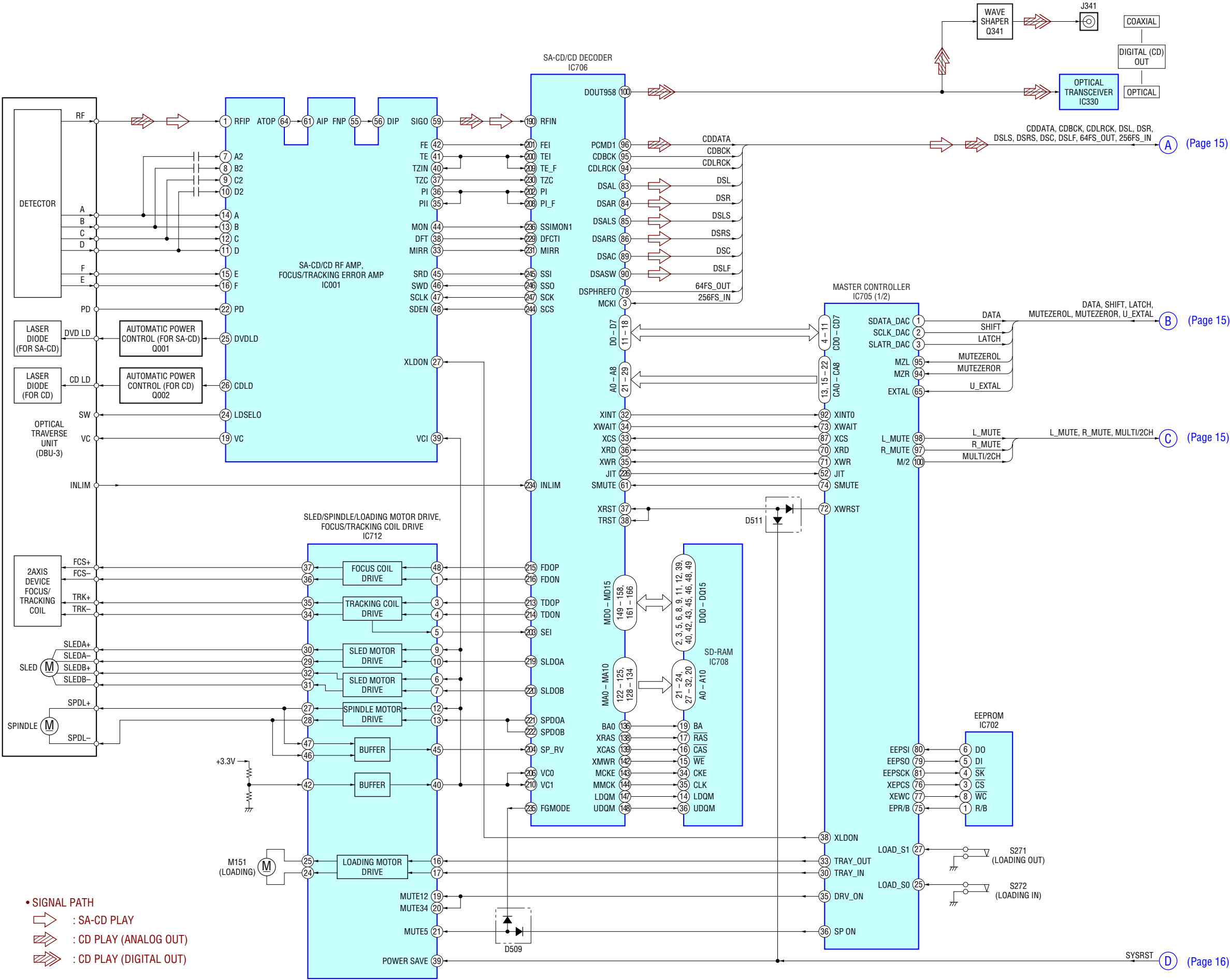
Part Location:

– MAIN Board (Component Side) –

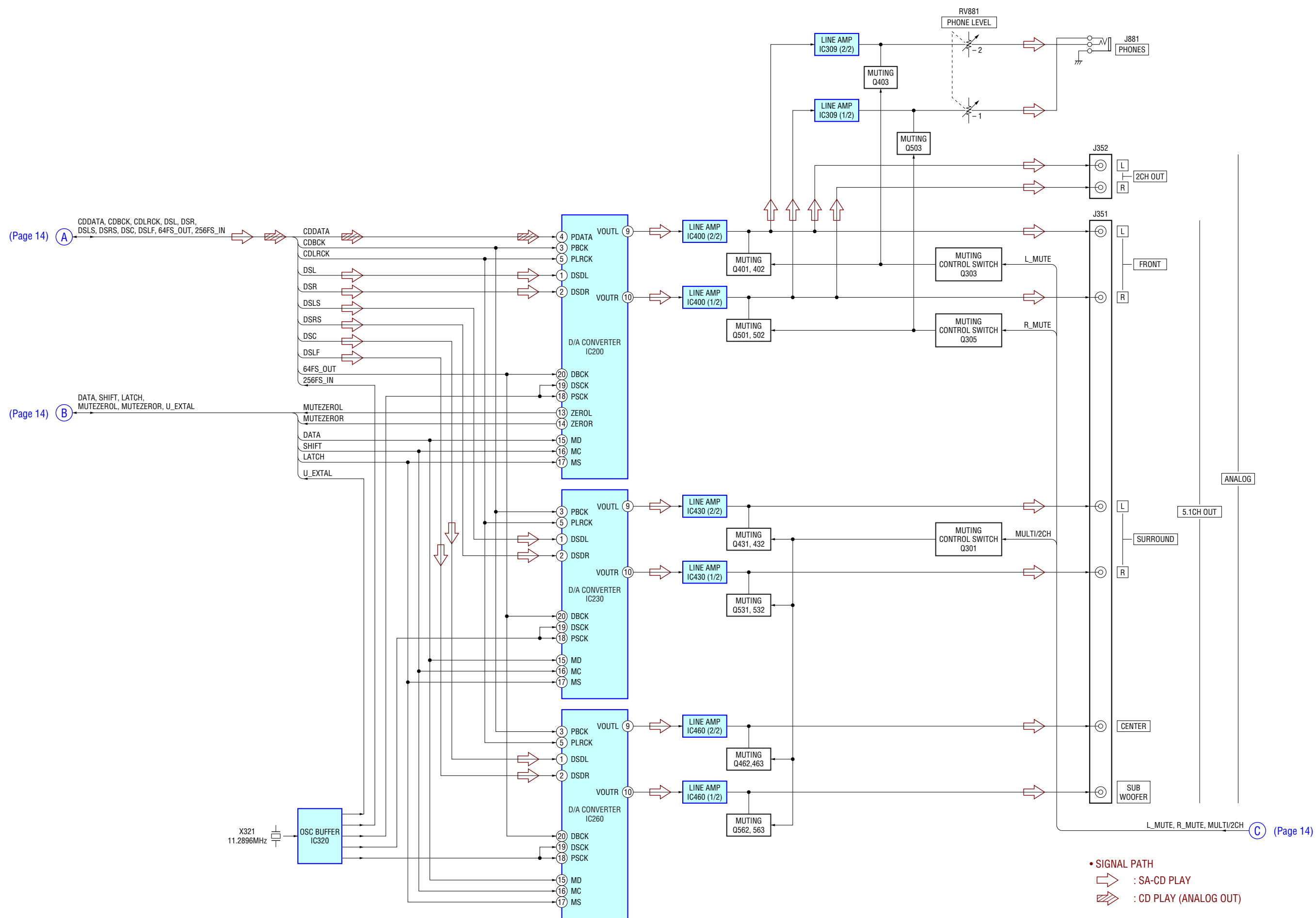


SECTION 6
DIAGRAMS

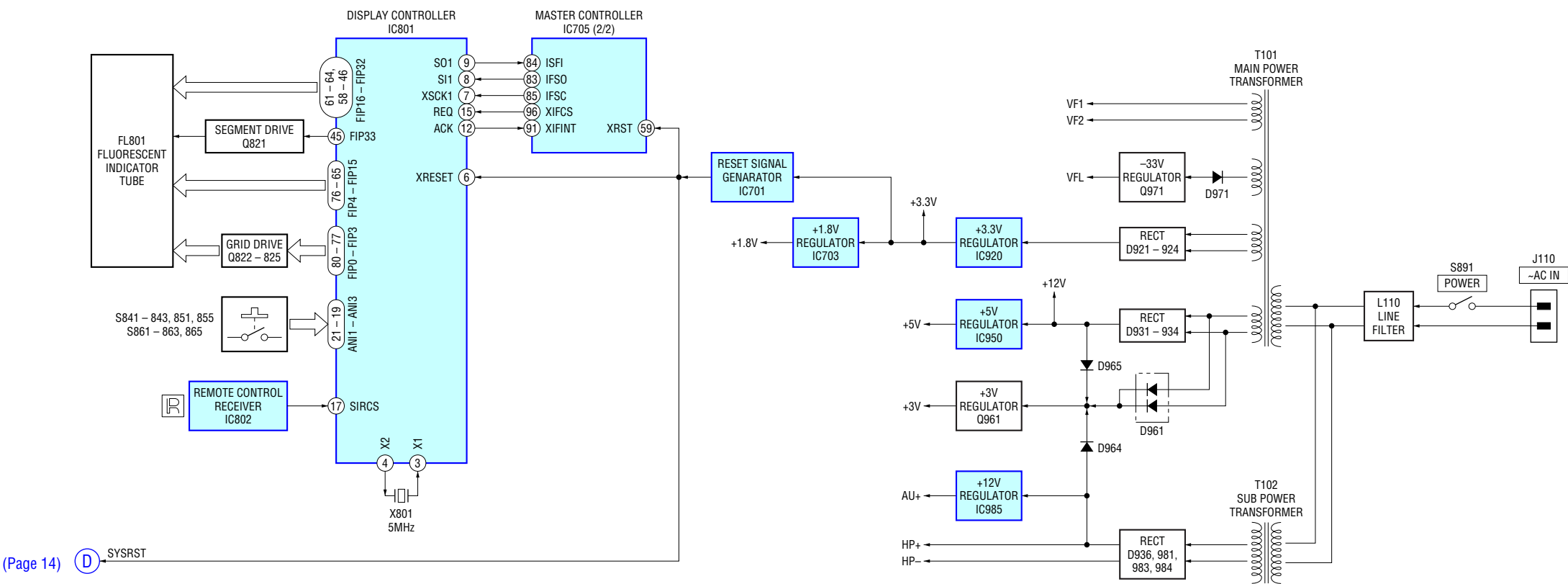
6-1. BLOCK DIAGRAM – MAIN Section –



6-2. BLOCK DIAGRAM – AMP Section –



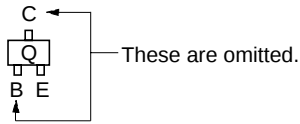
6-3. BLOCK DIAGRAM – PANEL/POWER SUPPLY Section –



• 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.
 - △ : internal component.
 - : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)
- Caution:

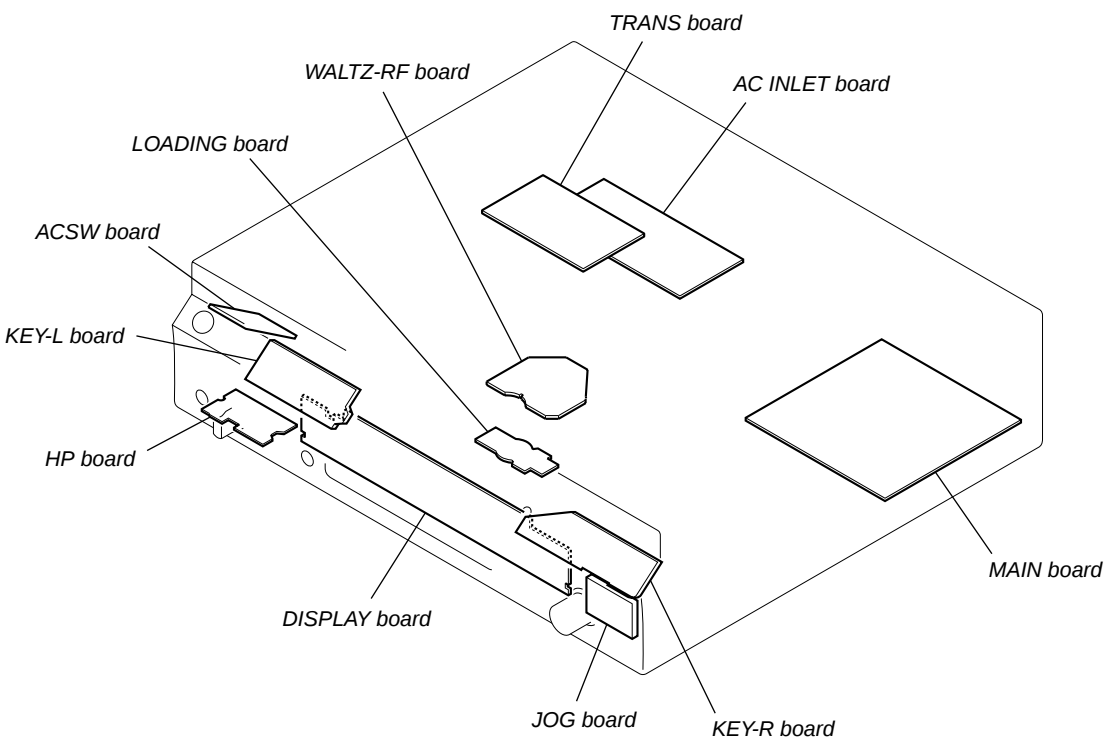
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.
- MAIN board is multi-layer printed board.
However, the patterns of intermediate layers have not been included in diagrams.
 - Indication of transistor



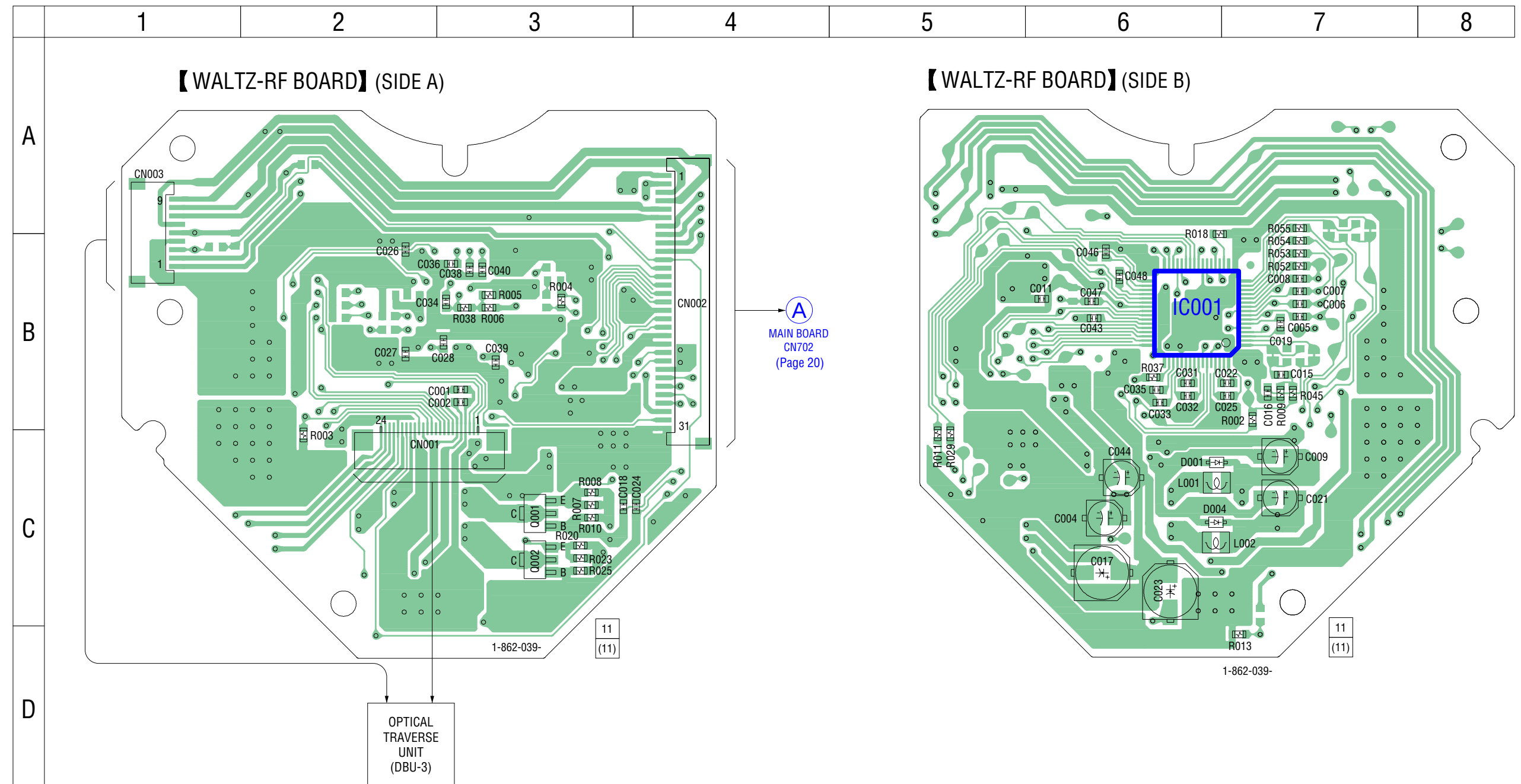
- Note on Schematic Diagram:**
- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
 - △ : internal component.
 - : panel designation.
- Note:** The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

- : B+ Line.
- : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- no mark : SA-CD 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.
- ⇒ : SA-CD PLAY
- ⇒ : CD PLAY (ANALOG OUT)
- ⇒ : CD PLAY (DIGITAL OUT)

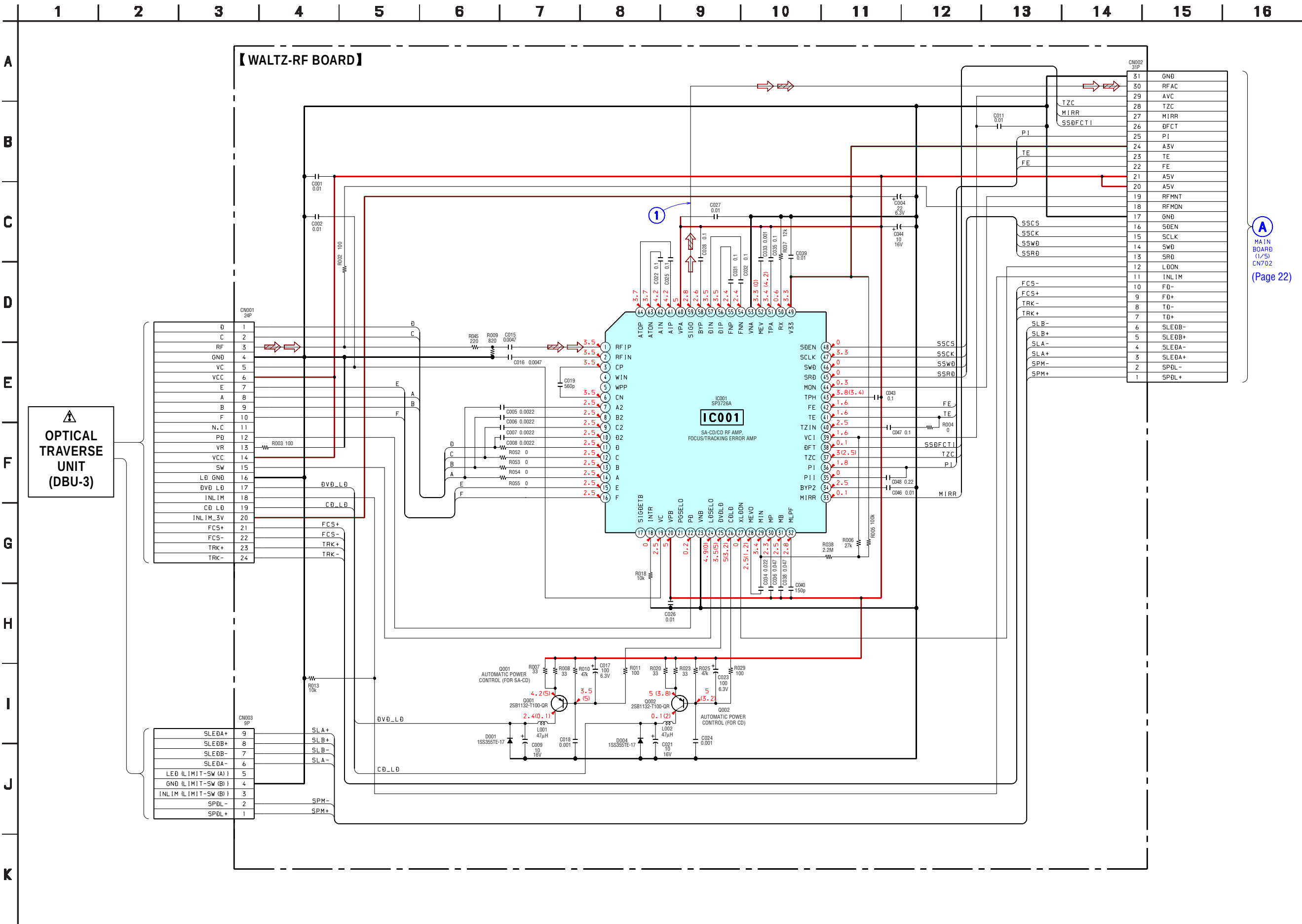
• Circuit Boards Location



6-4. PRINTED WIRING BOARD – WALTZ-RF Board – • See page 17 for Circuit Boards Location. : Uses unleaded solder.



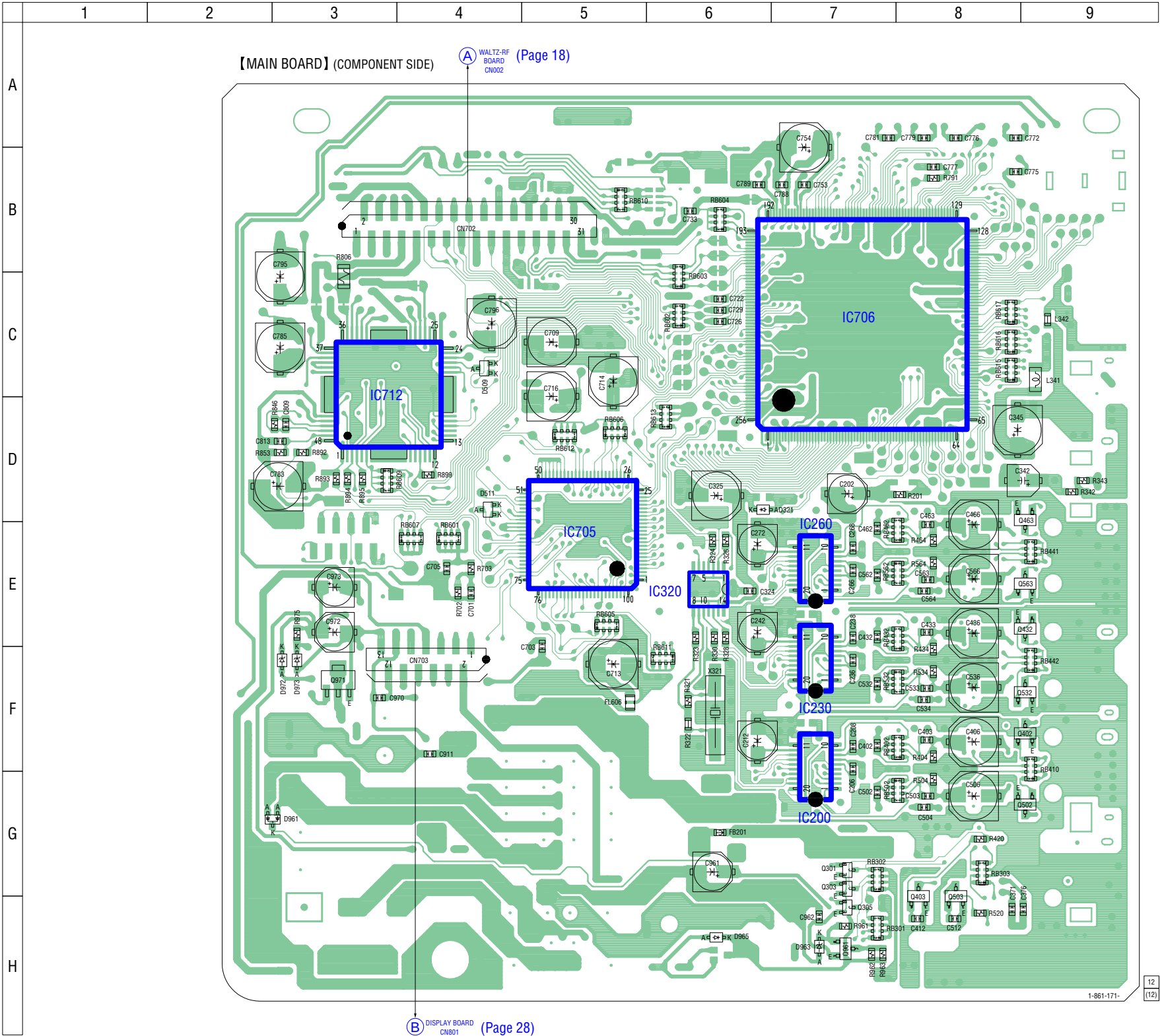
6-5. SCHEMATIC DIAGRAM – WALTZ-RF Board – • See page 31 for Waveforms. • See page 33 for IC Pin Function Description.



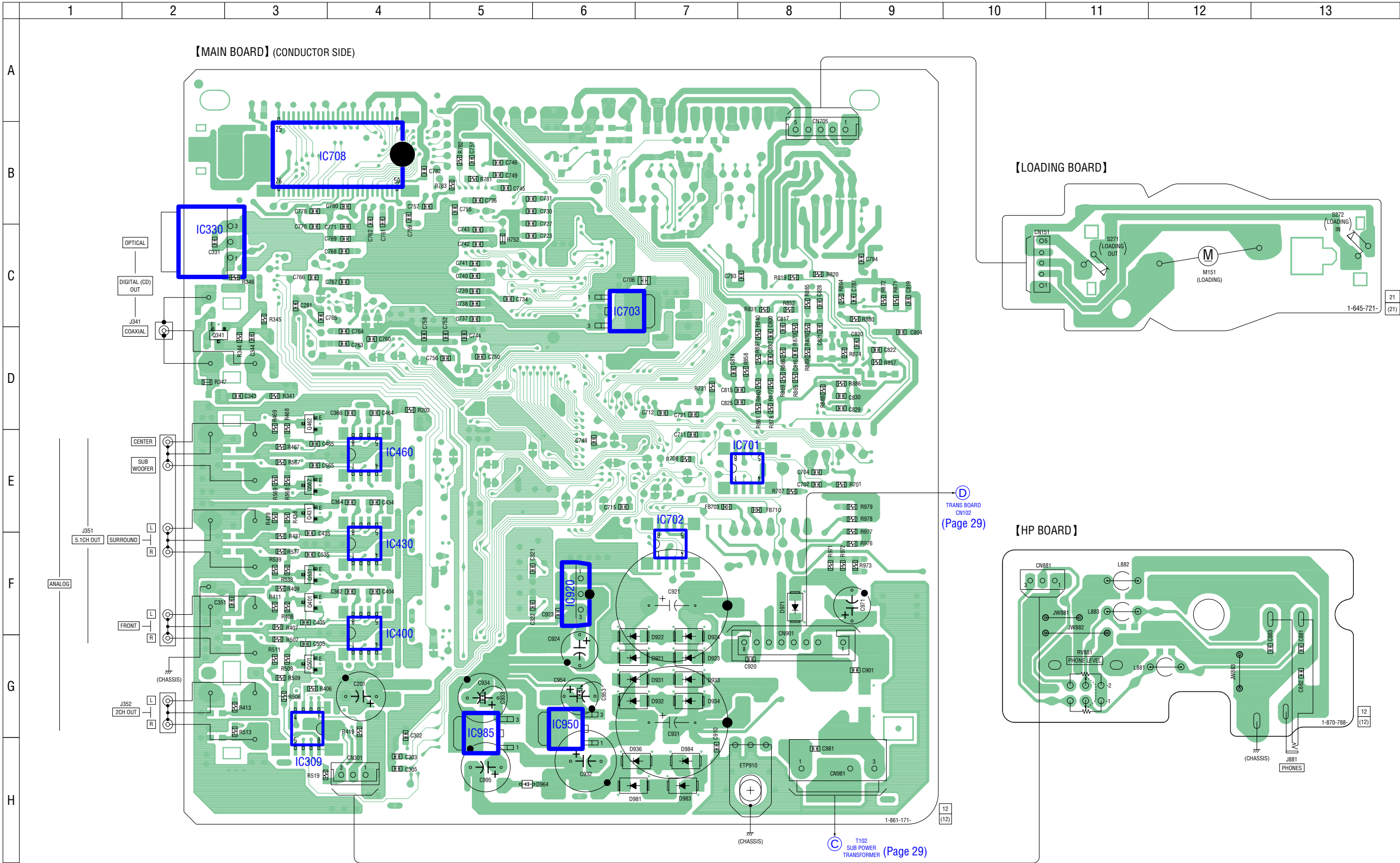
• Semiconductor Location

Ref. No.	Location
D321	D-6
D509	C-4
D511	D-4
D961	G-3
D963	H-7
D965	H-6
D972	F-3
D973	F-3
IC200	F-7
IC230	F-7
IC260	E-7
IC320	E-6
IC705	E-5
IC706	C-7
IC712	C-3
Q301	G-7
Q303	G-7
Q305	H-7
Q402	F-9
Q403	H-8
Q432	E-9
Q463	D-9
Q502	G-9
Q503	H-8
Q532	F-9
Q563	E-9
Q961	H-7
Q971	F-3

6-6. PRINTED WIRING BOARD – MAIN Section (1/2) – • See page 17 for Circuit Boards Location. : Uses unleaded solder.

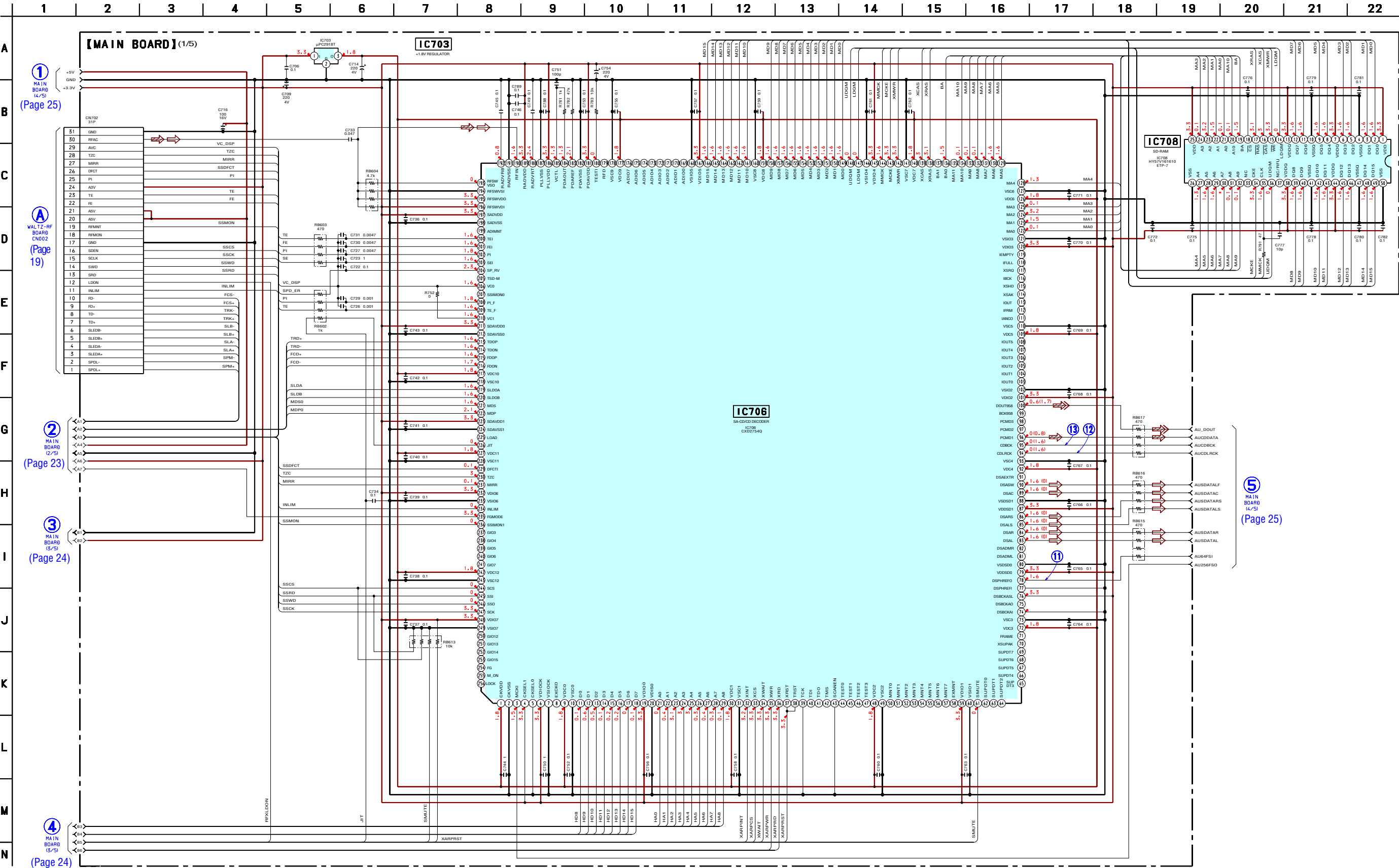


6-7. PRINTED WIRING BOARDS – MAIN Section (2/2) – • See page 17 for Circuit Boards Location. : Uses unleaded solder.



• Semiconductor Location											
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D921	G-6	D933	G-7	D983	H-7	IC430	F-4	IC920	F-6	Q431	E-3
D922	G-6	D934	G-7	D984	H-7	IC460	E-4	IC950	G-6	Q462	D-3
D923	G-7	D936	H-7			IC701	E-8	IC985	G-5	Q501	G-3
D924	G-7	D964	H-5	IC309	G-3	IC702	F-7			Q531	F-3
D931	G-6	D971	F-8	IC330	C-2	IC703	C-6	Q341	D-2	Q562	E-3
D932	G-6	D981	H-6	IC400	F-4	IC708	B-4	Q401	F-3		

6-8. SCHEMATIC DIAGRAM – MAIN Section (1/5) – • See page 31 for Waveforms. • See page 33 for IC Pin Function Description.



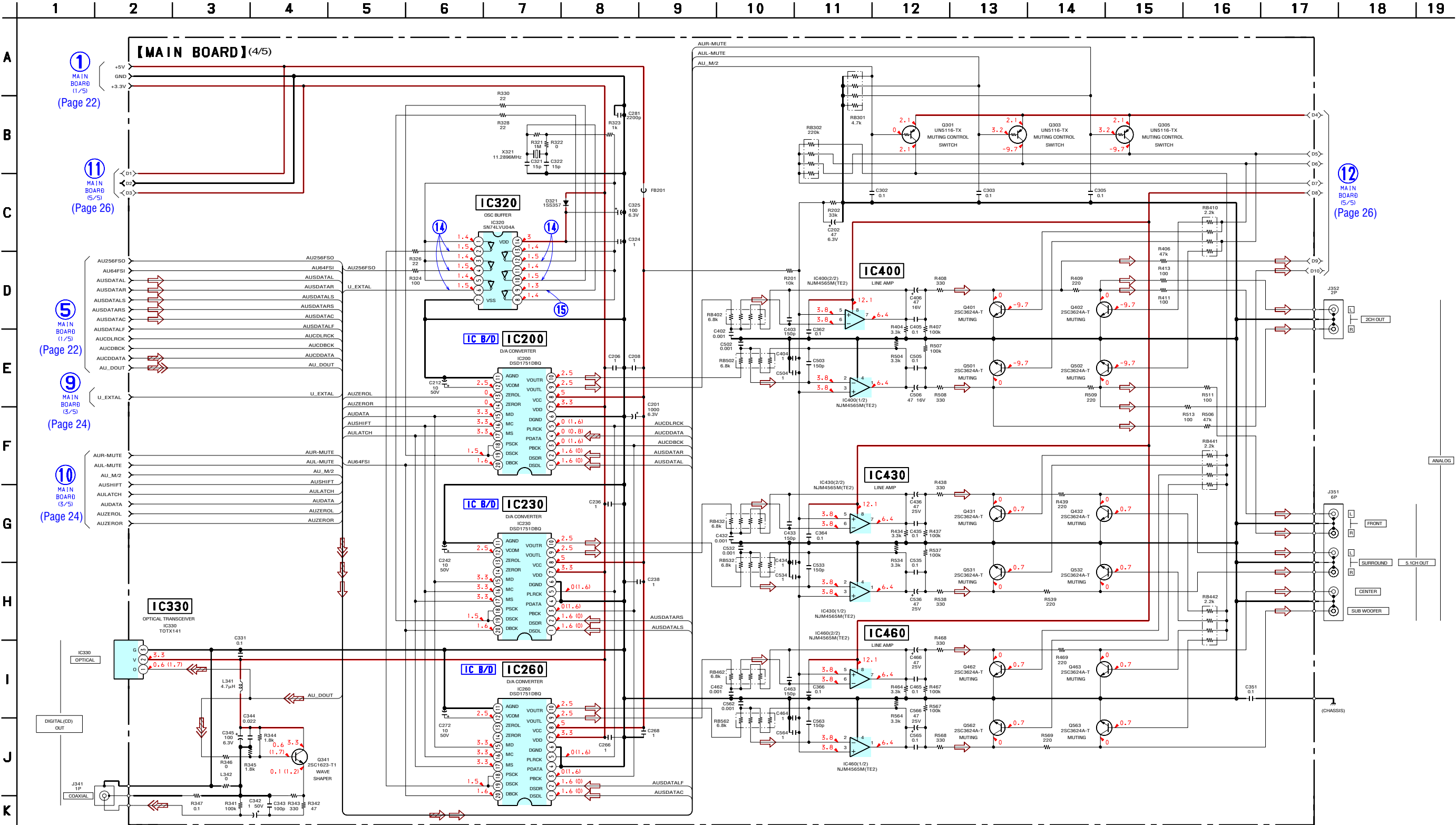
23 23



24 24

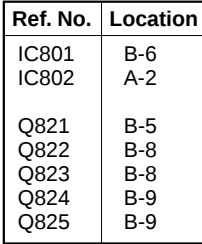


6-11. SCHEMATIC DIAGRAM – MAIN Section (4/5) – • See page 31 for Waveforms. • See page 32 for IC Block Diagrams.

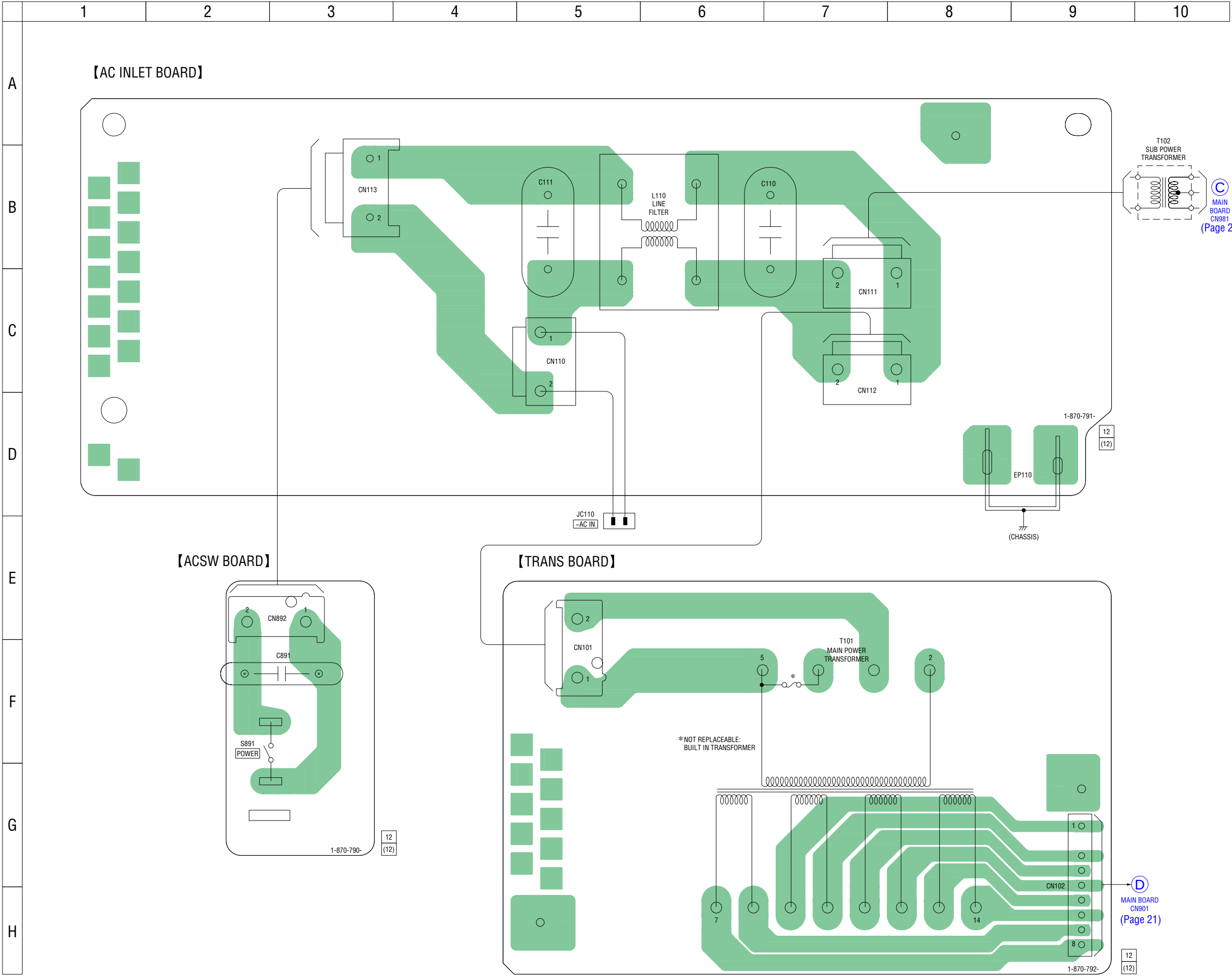


26 26

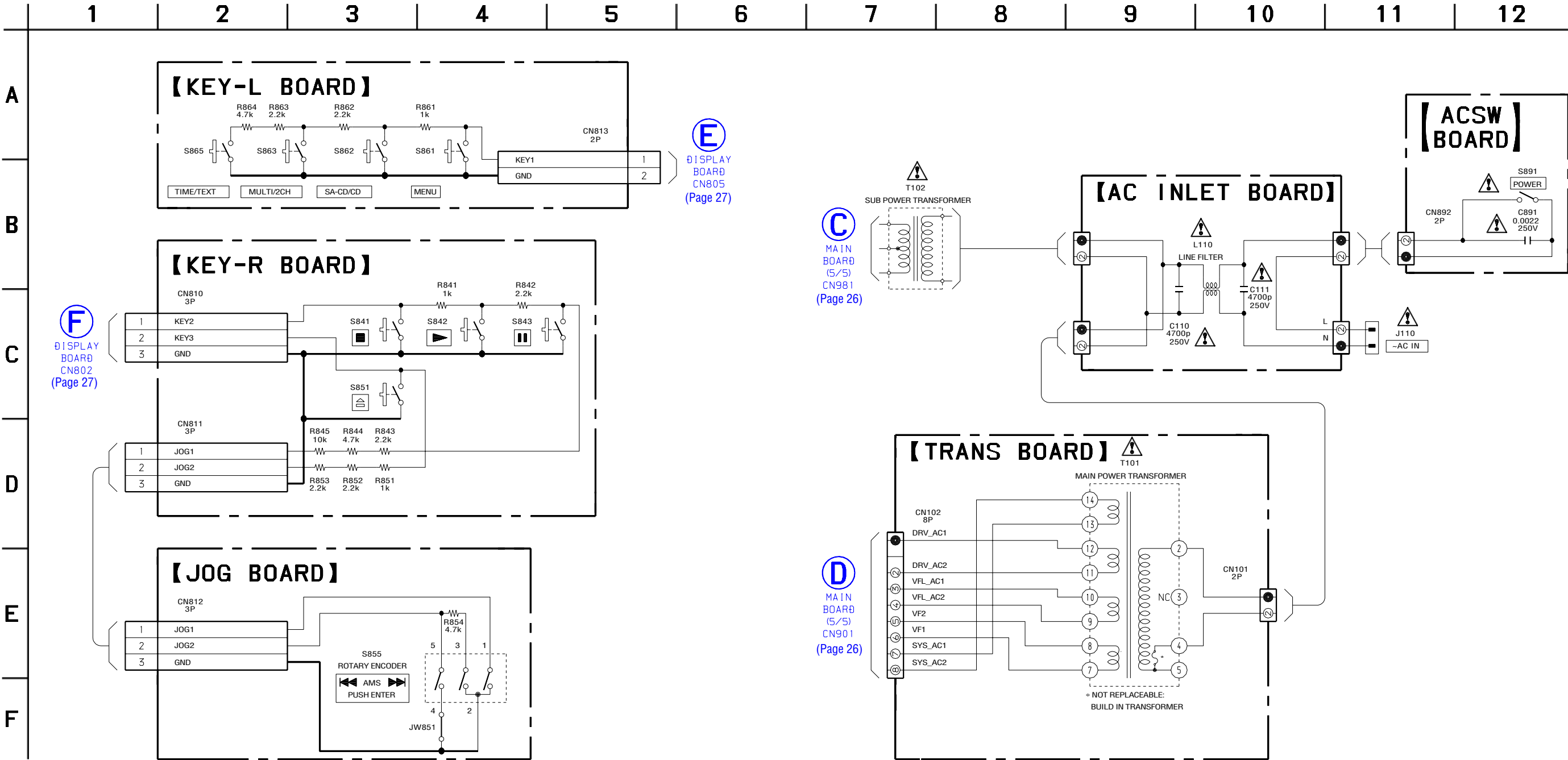




6-15. PRINTED WIRING BOARDS – POWER SUPPLY Section – • See page 17 for Circuit Boards Location. : Uses unleaded solder.



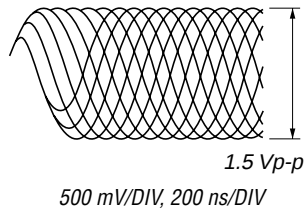
6-16. SCHEMATIC DIAGRAM – KEY/POWER SUPPLY Section –



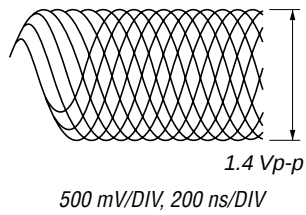
- Waveforms

– WALTZ-RF Board –

① IC001 ⑤⑨ (SIGO)
(CD play mode)

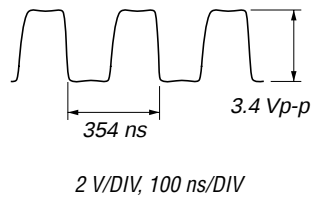


① IC001 ⑤⑨ (SIGO)
(SA-CD play mode)

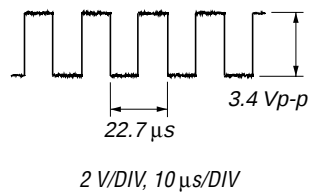


– MAIN Board –

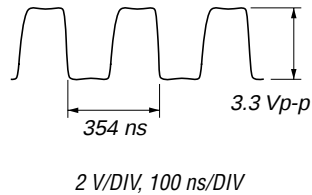
⑪ IC706 ⑦⑧ (DSPHREFO)



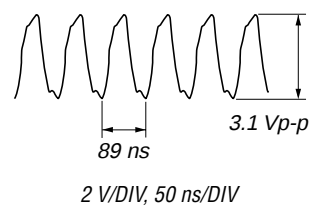
⑫ IC706 ⑨④ (CDLRCK)
(CD play mode)



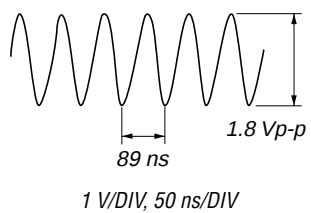
⑬ IC706 ⑨⑤ (CDBCK)
(CD play mode)



⑭ IC320 ②, ④, ⑥, ⑩, ⑫

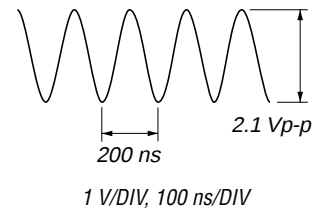


⑮ IC320 ⑨



– DISPLAY Board –

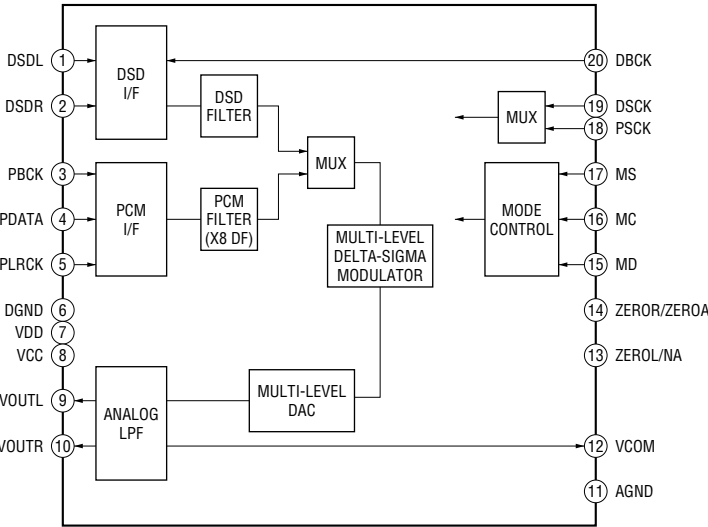
⑳ IC801 ④ (X2)



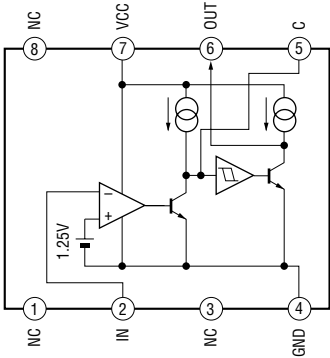
SCD-XA1200ES

• IC Block Diagrams
– MAIN Board –

IC200, 230, 260 DSD1751DBQR



IC701 M51957BFP-600C



• IC Pin Function Description

WALTZ-RF BOARD IC001 SP3726A (SA-CD/CD RF AMP, FOCUS/TRACKING ERROR AMP)

Pin No.	Pin Name	I/O	Description
1	RFIP	I	RF signal input from the optical traverse unit
2	RFIN	I	RF signal input terminal Not used
3	CP	-	Tracking low-pass filter terminal
4	WIN	I	Wobble detection signal input terminal Not used
5	WPP	O	Wobble push-pull signal output terminal Not used
6	CN	-	Tracking low-pass filter terminal
7 to 10	A2 to D2	I	Photo detector interface input from the optical traverse unit (AC coupled input for the DPD and wobble)
11 to 14	D to A	I	Photo detector interface input from the optical traverse unit (main)
15, 16	E, F	I	Photo detector interface input from the optical traverse unit (sub)
17	SIGDETB	O	Signal detection signal output terminal Not used
18	INTR	I	Interruption control signal input terminal Not used
19	VC	O	Reference voltage (+2.5V) output to the optical traverse unit
20	VPB	-	Power supply terminal (+5V) (for servo block)
21	PGSELO	O	PDIC gain selection signal output terminal Not used
22	PD	I	Automatic power control signal input from the optical traverse unit
23	VNB	-	Ground terminal (for servo block)
24	LDSELO	O	Automatic power control laser diode selection signal output to the optical traverse unit
25	DVDLD	O	SA-CD automatic power control signal output terminal
26	CDLD	O	CD automatic power control signal output terminal
27	XLDON	I	Laser diode on/off control signal input from the master controller "L": laser diode on
28	MEVO	O	Envelope signal output terminal for mirror
29	MIN	I	RF signal input terminal for mirror
30	MP	-	Mirror top hold terminal
31	MB	-	Mirror bottom hold terminal
32	MLPF	-	Mirror low-pass filter terminal
33	MIRR	O	Mirror signal output to the SA-CD/CD decoder
34	BYP2	-	Servo AGC gain control terminal
35	PII	I	Pull-in signal input terminal
36	PI	O	Pull-in signal output to the SA-CD/CD decoder
37	TZC	O	Tracking zero crossing signal output to the SA-CD/CD decoder
38	DFT	O	Defect signal output to the SA-CD/CD decoder
39	VCI	I	Middle point voltage input from the motor/coil driver
40	TZIN	I	Tracking zero crossing signal input terminal
41	TE	O	Tracking error signal output to the SA-CD/CD decoder
42	FE	O	Focusing error signal output to the SA-CD/CD decoder
43	TPH	-	Pull-in top hold terminal
44	MON	O	Monitor signal output to the SA-CD/CD decoder
45	SRD	O	Serial data output to the SA-CD/CD decoder
46	SWD	I	Serial data input from the SA-CD/CD decoder
47	SCLK	I	Serial data transfer clock signal input from the SA-CD/CD decoder
48	SDEN	I	Chip select signal input from the SA-CD/CD decoder
49	V33	-	Power supply terminal (+3.3V) (for CMOS output buffers)
50	RX	I	Reference resistor input terminal
51	TPA	-	RF top hold terminal
52	MEV	-	RF bottom envelope terminal

Pin No.	Pin Name	I/O	Description
53	VNA	-	Ground terminal (for RF block and serial port)
54, 55	FNN, FNP	O	Differential filter normal signal output terminal
56, 57	DIP, DIN	I	Analog signal input terminal for RF single buffer
58	BYP	-	RF AGC gain control terminal
59	SIGO	O	Single-ended RF signal output to the SA-CD/CD decoder
60	VPA	-	Power supply terminal (+5V) (for RF block and serial port)
61, 62	AIP, AIN	I	AGC amplifier signal input terminal
63, 64	ATON, ATOP	O	Differential attenuator signal output terminal

MAIN BOARD IC705 HD6432238RP02TEV (MASTER CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	SDATA_DAC	O	Serial data output to the D/A converter
2	SCLK_DAC	O	Serial data transfer clock signal output to the D/A converter
3	SLATR_DAC	O	Serial data latch pulse signal output to the D/A converter
4 to 11	CD0 to CD7	I/O	Two-way data bus with the SA-CD/CD decoder
12	CVCC	-	Power supply terminal (+3.3V)
13	CA0	O	Address signal output to the SA-CD/CD decoder
14	VSS0	-	Ground terminal
15 to 22	CA1 to CA8	O	Address signal output to the SA-CD/CD decoder
23, 24	PB1, PB2	O	Not used
25	LOAD_S0	I	Loading in detection switch input terminal
26	LOAD_S2	I	Detection switch input terminal Not used
27	LOAD_S1	I	Loading out detection switch input terminal
28	TSENS	I	Disc tray status detection signal input terminal Not used
29	DSSENS	I	Disc in detection signal input terminal Not used
30	TRAY_IN	O	Loading motor drive signal (disc tray in direction) output terminal
31	RS232CTX	O	Transmit data output terminal Not used
32	RS232CRX	I	Receive data input terminal Not used
33	TRAY_OUT	O	Loading motor drive signal (disc tray out direction) output terminal
34	P10	O	Not used
35	DRV_ON	O	Stop signal output for the sled motor and focus/tracking coil
36	SP_ON	O	Stop signal output for the spindle motor
37	P13	O	Not used
38	XLDON	O	Laser diode on/off control signal output to the SA-CD/CD RF amplifier "L": laser diode on
39, 40	TRMP, TRMM	O	Tray motor control signal output terminal Not used
41	P17	O	Not used
42	AVSS	-	Ground terminal
43	DIAG	I	DIAG mode on/off control signal input terminal Not used
44	P96	I	Not used
45 to 50	P47 to P42	I	Not used
51	MODEL	I	Model setting terminal
52	JIT	I	Jitter value input from the SA-CD/CD decoder
53	VREF	I	Reference voltage input terminal
54	AVCC	-	Power supply terminal (+3.3V)
55, 56	MD0, MD1	I	CPU operation mode setting terminal
57	OSC2	O	Sub system clock output terminal Not used
58	OSC1	I	Sub system clock input terminal Not used
59	XRST	I	System reset signal input from the reset signal generator "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
60	XNMI	I	Non-maskable interrupt signal input terminal Not used
61	XSTBY	I	Standby on/off control signal input terminal Not used
62	VCC	-	Power supply terminal (+3.3V)
63	XTAL	O	Main system clock output terminal Not used
64	VSS1	-	Ground terminal
65	EXTAL	I	Main system clock input terminal (11.2896 MHz)
66	FWE	I	Write enable signal input terminal for flash memory Not used
67	MD2	I	CPU operation mode setting terminal

Pin No.	Pin Name	I/O	Description
68	PF7	O	Not used
69	AS	O	Not used
70	XRD	O	Read enable signal output to the SA-CD/CD decoder
71	XWR	O	Write enable signal output to the SA-CD/CD decoder
72	XWRST	O	Reset signal output to the SA-CD/CD decoder "L": reset
73	XWAIT	I	Wait signal input from the SA-CD/CD decoder
74	SMUTE	O	Soft muting on/off control signal output to the SA-CD/CD decoder "H": muting on
75	EPR/B	I	Read/busy signal input from the EEPROM
76	XEPCS	O	Chip select signal output to the EEPROM
77	XEWC	O	WC signal output to the EEPROM
78	P32	O	Not used
79	EEPSO	O	Serial data output to the EEPROM
80	EEPSI	I	Serial data input from the EEPROM
81	EEPCK	O	Serial data transfer clock signal output to the EEPROM
82	P36	O	Not used
83	IFSO	O	Serial data output to the display controller
84	IFSI	I	Serial data input from the display controller
85	IFSC	O	Serial data transfer clock signal output to the display controller
86	P74	O	Not used
87	XCS	O	Chip select signal output to the SA-CD/CD decoder
88 to 90	P72 to P70	I	Not used
91	XIFINT	I	Interrupt signal input from the display controller
92	XINT0	I	Interrupt signal input from the SA-CD/CD decoder
93	PG2	I	Not used
94	MZR	I	Zero data (R-CH) flag detection signal input from the D/A converter
95	MZL	I	Zero data (L-CH) flag detection signal input from the D/A converter
96	XIFCS	O	Chip select signal output to the display controller
97	R_MUTE	O	Muting on/off control signal (for R-ch) output terminal "L": muting on
98	L_MUTE	O	Muting on/off control signal (for L-ch) output terminal "L": muting on
99	INIT_DAC	O	Initilize signal output terminal Not used
100	M/2	O	Multi/2ch selection signal output terminal "L": 2ch "H": multi

MAIN BOARD IC706 CXD2754Q (SA-CD/CD DECODER)

Pin No.	Pin Name	I/O	Description
1	CKVDD	-	Power supply terminal (+1.8V) (for clock multiplier PLL)
2	CKVSS	-	Ground terminal (for clock multiplier PLL)
3	MCKI	I	System clock (11.2896 MHz) signal input terminal
4, 5	CKSEL1, CKSEL0	I	System clock setting terminal Fixed at 11.2896 MHz in this set
6	VDIOCK	-	Power supply terminal (+3.3V) (for clock I/O)
7	VSIOCK	-	Ground terminal (for clock I/O)
8	EXCKO	O	External clock output terminal Not used
9	VDC0	-	Power supply terminal (+1.8V) (for core)
10	VSC0	-	Ground terminal (for core)
11 to 18	D0 to D7	I/O	Two-way data bus with the master controller
19	VDIO0	-	Power supply terminal (+3.3V) (for I/O)
20	VSIO0	-	Ground terminal (for I/O)
21 to 29	A0 to A8	I	Address signal input from the master controller
30	VDC1	-	Power supply terminal (+1.8V) (for core)
31	VSC1	-	Ground terminal (for core)
32	XINT	O	Interrupt signal output to the master controller
33	XCS	I	Chip select signal input from the master controller
34	XWAIT	O	Wait signal output to the master controller
35	XWR	I	Write enable signal input from the master controller
36	XRD	I	Read enable signal input from the master controller
37	XRST	I	System reset signal input from the reset signal generator and master controller "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
38	TRST	I	JTAG reset signal input from the reset signal generator and master controller "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
39	TCK	I	Clock signal input terminal (for JTAG)
40	TDI	I	Test data input terminal (for JTAG)
41	TDO	O	Test data output terminal (for JTAG)
42	TMS	I	Mode selection signal input terminal (for JTAG)
43	SCANEN	I	Test terminal
44 to 47	TEST0 to TEST3	I	Test terminal
48	VDC2	-	Power supply terminal (+1.8V) (for core)
49	VSC2	-	Ground terminal (for core)
50 to 57	MNT0 to MNT7	O	Monitor terminal
58	EXMNT	O	Extra monitor terminal
59	VDIO1	-	Power supply terminal (+3.3V) (for I/O)
60	VSIO1	-	Ground terminal (for I/O)
61	SMUTE	I	Soft muting on/off control signal input from the master controller "H": muting on
62 to 69	SUPDT0 to SUPDT7	O	Not used
70	XSUPAK	O	Not used
71	FRAME	O	SA-CD frame signal output terminal Not used
72	VDC3	-	Power supply terminal (+1.8V) (for core)
73	VSC3	-	Ground terminal (for core)
74	DSBCKAI	I	Bit clock signal input terminal (for DSD data output) Not used
75	DSBCKAO	O	Bit clock signal output terminal (for DSD data output) Not used
76	DSBCKASL	I	Bit clock signal input/output selection terminal (for DSD data output) "L": input (slave), "H": output (master) Fixed at "H" in this set

Pin No.	Pin Name	I/O	Description
77	DSPHREFI	I	Phase reference signal input terminal (for DSD output phase modulation) Not used
78	DSPHREFO	O	Phase reference signal output to the D/A converter (for DSD output phase modulation)
79	VDDSD0	-	Power supply terminal (+3.3V) (for DSD data output)
80	VSDSD0	-	Ground terminal (for DSD data output)
81	DSADML	O	DSD data output terminal (for down mix L-ch) Not used
82	DSADMR	O	DSD data output terminal (for down mix R-ch) Not used
83	DSAL	O	DSD data output to the D/A converter (for front L-ch)
84	DSAR	O	DSD data output to the D/A converter (for front R-ch)
85	DSALS	O	DSD data output to the D/A converter (for surround L-ch)
86	DSARS	O	DSD data output to the D/A converter (for surround R-ch)
87	VDDSD1	-	Power supply terminal (+3.3V) (for DSD data output)
88	VSDSD1	-	Ground terminal (for DSD data output)
89	DSAC	O	DSD data output to the D/A converter (for center)
90	DSASW	O	DSD data output to the D/A converter (for sub woofer)
91	DSAEXTR	O	DSD data output terminal (for extra channel) Not used
92	VDC4	-	Power supply terminal (+1.8V) (for core)
93	VSC4	-	Ground terminal (for core)
94	CDLRCK	O	L/R sampling clock signal output to the D/A converter (for CD data output)
95	CDBCK	O	Bit clock signal output to the D/A converter (for CD data output)
96	PCMD1	O	CD data output to the D/A converter
97, 98	PCMD2, PCMD3	O	Decimation data output terminal Not used
99	BCK958	O	Bit clock signal output terminal Not used
100	DOUT958	O	Digital out signal output terminal
101	VDIO2	-	Power supply terminal (+3.3V) (for I/O)
102	VSIO2	-	Ground terminal (for I/O)
103 to 108	IOUT0 to IOUT5	O	DSD data output terminal (for IEEE1394 link chip) Not used
109	VDC5	-	Power supply terminal (+1.8V) (for core)
110	VSC5	-	Ground terminal (for core)
111	IANCO	O	Ancillary data output terminal (for IEEE1394 link chip) Not used
112	IFRM	O	Frame signal output terminal (for IEEE1394 link chip) Not used
113	IOUT	O	Enable signal output terminal (for IEEE1394 link chip) Not used
114	XSAK	O	Effective flag output terminal (for DVD stream data output) Not used
115	XSHD	O	Header flag output terminal (for DVD stream data output) Not used
116	IBCK	O	Bit clock signal output terminal (for IEEE1394 link chip) Not used
117	XSRQ	I	Request signal input terminal (for DVD stream data output) Not used
118	IFULL	I	Data transmission hold request signal output terminal (for IEEE1394 link chip) Not used
119	IEMPTY	I	Hi-speed transmission request signal output terminal (for IEEE1394 link chip) Not used
120	VDIO3	-	Power supply terminal (+3.3V) (for I/O)
121	VSIO3	-	Ground terminal (for I/O)
122 to 125	MA0 to MA3	O	Address signal output to the SD-RAM
126	VDC6	-	Power supply terminal (+1.8V) (for core)
127	VSC6	-	Ground terminal (for core)
128 to 134	MA4 to MA10	O	Address signal output to the SD-RAM
135	MA11	O	Address signal output terminal Not used
136	BA0	O	Bank address signal output to the SD-RAM
137	BA1	O	Bank address signal output terminal Not used
138	XRAS	O	Row address strobe signal output to the SD-RAM

Pin No.	Pin Name	I/O	Description
139	XCAS	O	Column address strobe signal output to the SD-RAM
140	VDC7	-	Power supply terminal (+1.8V) (for core)
141	VSC7	-	Ground terminal (for core)
142	XMWR	O	Write enable signal output to the SD-RAM
143	MCKE	O	Clock enable signal output to the SD-RAM
144	MMCK	O	Clock signal output to the SD-RAM
145	VDIO4	-	Power supply terminal (+3.3V) (for I/O)
146	VSIO4	-	Ground terminal (for I/O)
147	LDQM	O	Data mask (lower 8 bit) signal output to the SD-RAM
148	UDQM	O	Data mask (upper 8 bit) signal output to the SD-RAM
149 to 158	MD0 to MD9	I/O	Two-way data bus with the SD-RAM
159	VDC8	-	Power supply terminal (+1.8V) (for core)
160	VSC8	-	Ground terminal (for core)
161 to 166	MD10 to MD15	I/O	Two-way data bus with the SD-RAM
167	VDIO5	-	Power supply terminal (+3.3V) (for I/O)
168	VSIO5	-	Ground terminal (for I/O)
169 to 176	ADIO0 to ADIO7	I/O	A/D converter input/output terminal (for RF) No used
177	VDC9	-	Power supply terminal (+1.8V) (for core)
178	VSC9	-	Ground terminal (for core)
179	RFD	O	Binary RF signal output terminal No used
180	TESTI	I	Test terminal
181	PDAVDD	-	Power supply terminal (+3.3V) (analog system for PLL-D/A)
182	PDAVSS	-	Ground terminal (analog system for PLL-D/A)
183	PDAREF	O	Reference current output terminal (analog system for PLL-D/A)
184	PDAOUT	O	PLL-D/A output terminal
185	VCTL	I	VCO control voltage input terminal (for PLL)
186	PLLVD	-	Power supply terminal (+3.3V) (analog system for PLL)
187	PLLVS	-	Ground terminal (analog system for PLL)
188	RADVRT	I	Reference voltage (top side) input terminal (for RF A/D)
189	RADVDD	-	Power supply terminal (+3.3V) (analog system for RF A/D)
190	RFIN	I	RF signal input from the SA-CD/CD RF amplifier
191	RADVSS	-	Ground terminal (analog system for RF A/D)
192	RADVRB	I	Reference voltage (bottom side) input terminal (for RF A/D)
193	RFSWVSO	O	CD/DVD selection terminal (RFIN side)
194	RFSWVSI	I	CD/DVD selection terminal (ground side)
195	RFSWVDO	O	CD/DVD selection terminal (RFIN side)
196	RFSWVDI	I	CD/DVD selection terminal (power supply side)
197	SADVDD	-	Power supply terminal (+3.3V) (analog system for servo A/D)
198	SADVSS	-	Ground terminal (analog system for servo A/D)
199	ADIMNT	O	Not used
200	TEI	I	Tracking error signal input from the SA-CD/CD RF amplifier
201	FEI	I	Focus error signal input from the SA-CD/CD RF amplifier
202	PI	I	Pull-in signal input from the SA-CD/CD RF amplifier
203	SEI	I	Sled error signal input from the motor/coil driver
204	SP_RV	I	Spindle counter electromotive force input from the motor/coil driver
205	TSD-M	O	Thermal shut down signal output terminal Not used
206	VC0	I	Middle point voltage input from the motor/coil driver

Pin No.	Pin Name	I/O	Description
207	SSIMON0	I	Not used
208	PI_F	I	Pull-in signal input from the SA-CD/CD RF amplifier (for internal Tracking zero crossing signal generation)
209	TE_F	I	Tracking error signal input from the SA-CD/CD RF amplifier (for internal Tracking zero crossing signal generation)
210	VC1	I	Middle point voltage input from the motor/coil driver (for internal Tracking zero crossing signal generation)
211	SDAVDD0	-	Power supply terminal (+3.3V) (analog system for servo PWM)
212	SDAVSS0	-	Ground terminal (analog system for servo PWM)
213, 214	TDOP, TDON	O	Tracking coil drive signal output to the motor/coil driver
215, 216	FDOP, FDON	O	Focus coil drive signal output to the motor/coil driver
217	VDC10	-	Power supply terminal (+1.8V) (for core)
218	VSC10	-	Ground terminal (for core)
219, 220	SLDOA, SLDOB	O	Sled motor drive signal output to the motor/coil driver
221, 222	SPDOA, SPDOB	O	Spindle motor drive signal output to the motor/coil driver
223	SDAVDD1	-	Power supply terminal (+3.3V) (analog system for servo PWM)
224	SDAVSS1	-	Ground terminal (analog system for servo PWM)
225	LOAD	O	Not used
226	JIT	O	Jitter value output to the master controller
227	VDC11	-	Power supply terminal (+1.8V) (for core)
228	VSC11	-	Ground terminal (for core)
229	DFCTI	I	Defect signal input from the SA-CD/CD RF amplifier
230	TZC	I	Tracking zero crossing signal input from the SA-CD/CD RF amplifier
231	MIRR	I	Mirror signal input from the SA-CD/CD RF amplifier
232	VDIO6	-	Power supply terminal (+3.3V) (for I/O)
233	VSIO6	-	Ground terminal (for I/O)
234	INLIM	I	Limit in detection switch input terminal
235	FGMODE	O	Spindle motor break signal output to the motor/coil driver
236	SSIMON1	I	Monitor signal input from the SA-CD/CD RF amplifier
237 to 241	GIO3 to GIO7	I/O	No used
242	VDC12	-	Power supply terminal (+1.8V) (for core)
243	VSC12	-	Ground terminal (for core)
244	SCS	O	Chip select signal output to the SA-CD/CD RF amplifier
245	SSI	I	Serial data input from the SA-CD/CD RF amplifier
246	SSO	O	Serial data output to the SA-CD/CD RF amplifier
247	SCK	O	Serial data transfer clock signal output to the SA-CD/CD RF amplifier
248	VDIO7	-	Power supply terminal (+3.3V) (for I/O)
249	VSIO7	-	Ground terminal (for I/O)
250 to 253	GIO12 to GIO15	I/O	No used
254	FG	I	Motor rotation speed detection signal input terminal Not used
255	M_ON	O	Motor on monitor terminal (for spindle control) Not used
256	LOCK	O	Lock monitor terminal (for spindle control) Not used

DISPLAY BOARD IC801 uPD780232GC-706-8BT-A (DISPLAY CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	VDD1	-	Power supply terminal (+3.3V)
2	VSS1	-	Ground terminal
3	X1	I	System clock input terminal (5 MHz)
4	X2	O	System clock output terminal (5 MHz)
5	IC	-	Not used
6	XRESET	I	System reset signal input from the reset signal generator "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
7	XSCK1	I	Serial data transfer clock signal input from the master controller
8	SI1	I	Serial data input from the master controller
9	SO1	O	Serial data output to the master controller
10	BUSY	O	Busy signal output terminal Not used
11	P23	O	Not used
12	ACK	O	Interrupt signal output to the master controller
13	SO3	O	Serial data output terminal Not used
14	XSCK3	O	Serial data transfer clock signal terminal Not used
15	REQ	I	Chip select signal input from the master controller
16	INTP1	O	Interrupt signal output terminal Not used
17	SIRCS	I	SIRCS signal input from the remote control receiver
18	AVSS	-	Ground terminal
19 to 21	ANI3 to ANI1	I	Front panel keys input terminal (A/D input)
22	ANI0	I	Key input terminal (A/D input) Not used
23	VSS0	-	Ground terminal
24	AVDD	-	Power supply terminal (+3.3V)
25	VDD0	-	Power supply terminal (+3.3V)
26	TEST	I	Test mode setting terminal "L": test mode, normally fixed at "H"
27 to 44	FIP51 to FIP34	O	Not used
45 to 58	FIP33 to FIP20	O	Segment drive signal output to the fluorescent indicator tube
59	VDD2	-	Power supply terminal (+3.3V)
60	VLOAD	-	Power supply terminal (-33V)
61 to 64	FIP19 to FIP16	O	Segment drive signal output to the fluorescent indicator tube
65 to 80	FIP15 to FIP0	O	Grid drive signal output to the fluorescent indicator tube

SECTION 7

EXPLODED VIEWS

NOTE:

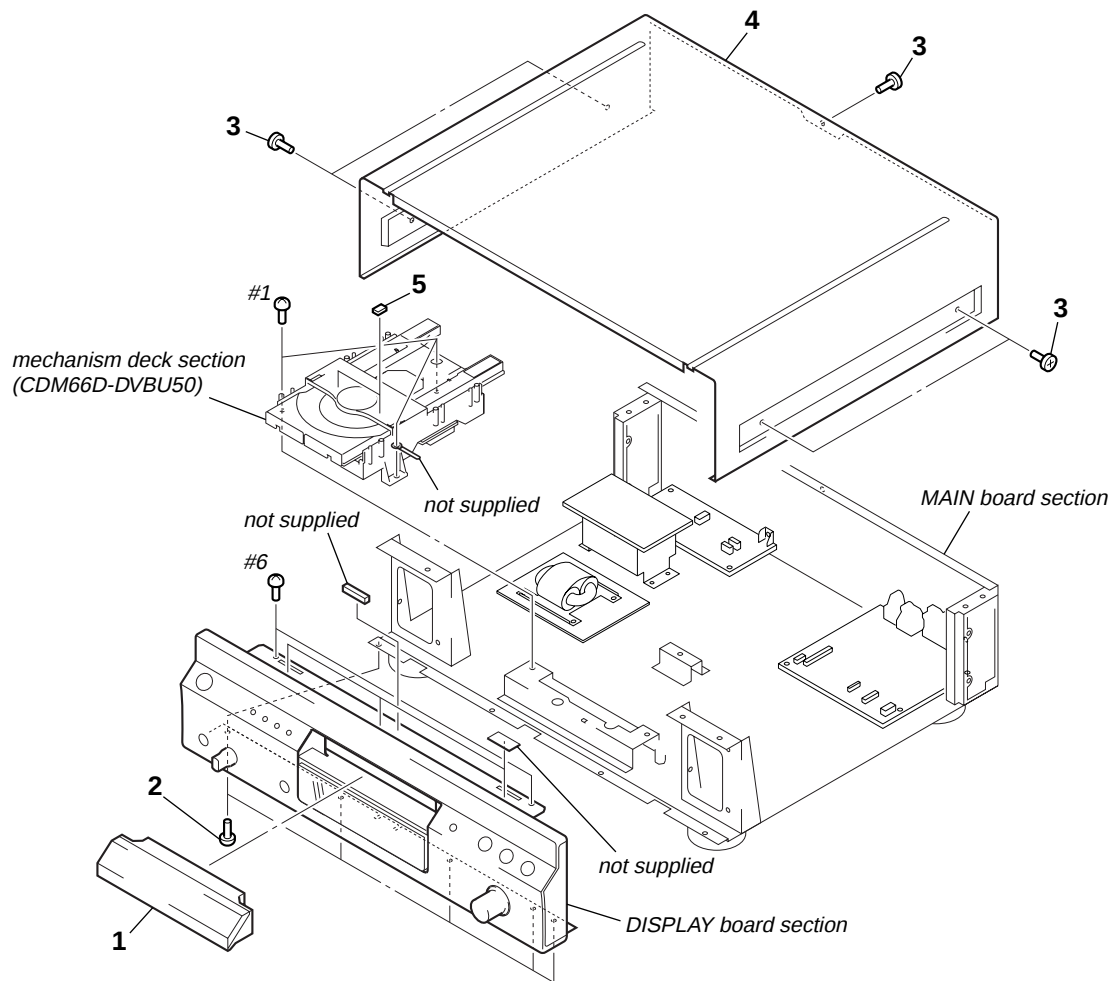
- XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)

Parts Color Cabinet's Color

- Items marked “*ex*” 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.
- Accessories are given in the last of the electrical parts list.

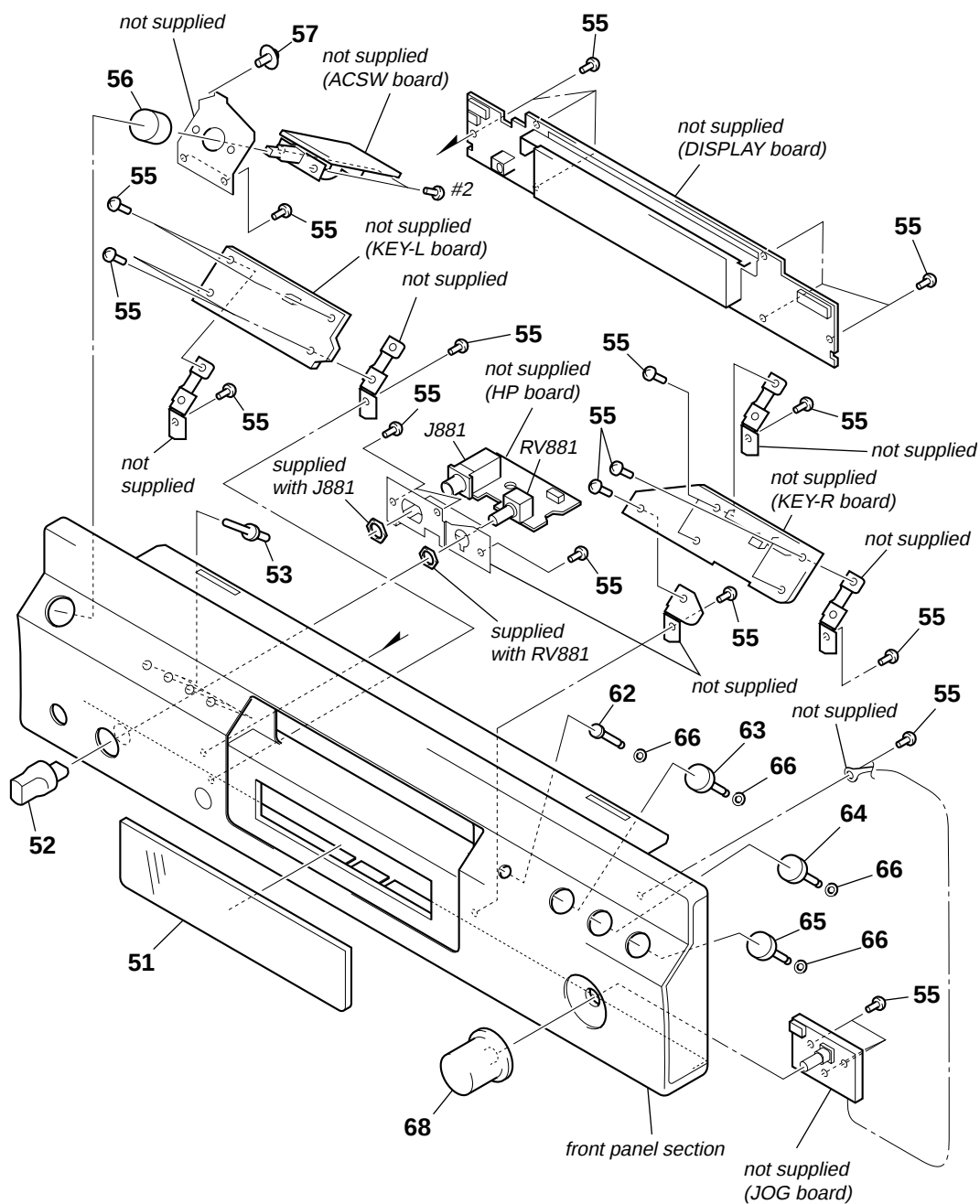
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

7-1. OVERALL SECTION



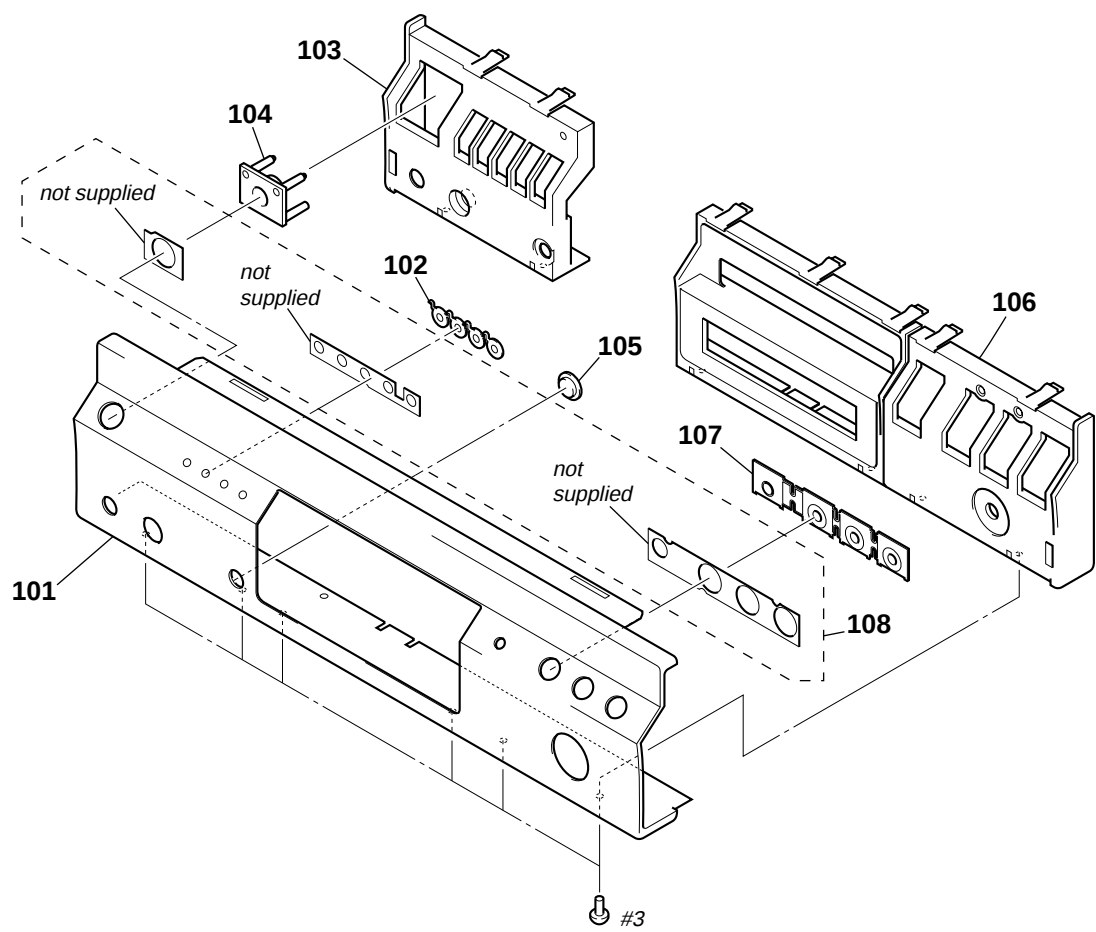
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
1	A-1111-230-A	PANEL ASSY, LOADING		5	3-561-427-01	CUSHION	
2	3-704-515-22	SCREW (BV/RING)					
3	4-227-843-31	SCREW (TP), FLAT HEAD		#1	7-685-872-01	SCREW +BVTT 3X8 (S)	
4	4-220-301-81	CASE		#6	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

7-2. DISPLAY BOARD SECTION



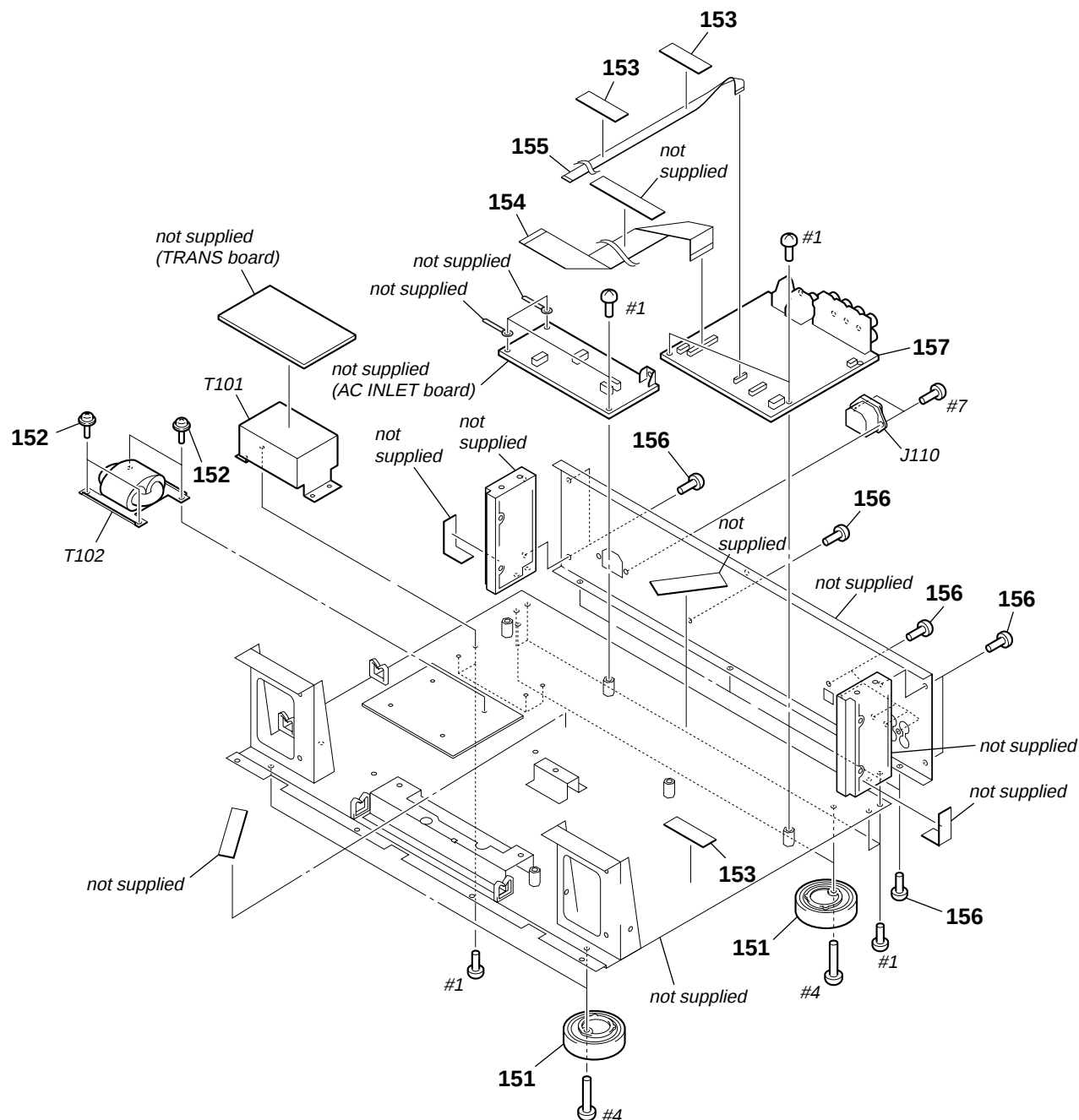
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-246-566-12	WINDOW		64	4-246-567-51	BUTTON (PLAY) (■)	
52	4-250-532-51	KNOB (HP-VOL)		65	4-246-567-81	BUTTON (PLAY) (■)	
53	4-230-635-31	BUTTON (PLAY MODE)		66	3-325-697-01	WASHER	
55	3-087-053-01	+BVTP2.6 (3CR)		68	X-4955-651-1	KNOB (SEL) ASSY	
56	X-4955-618-1	BUTTON (POWER) ASSY		J881	1-770-904-11	JACK (LARGE TYPE) (PHONES)	
57	4-218-252-52	SCREW (+PTPWH M2.6), FLOATING		RV881	1-227-185-11	RES, VAR, CARBON 1K/1K (PHONE LEVEL)	
62	4-246-568-21	BUTTON (OPEN) (≡)		#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
63	4-246-567-21	BUTTON (PLAY) (▶)					

7-3. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	2-685-314-01	PANEL, FRONT		106	4-246-561-21	BASE (R), PANEL	
102	4-246-564-21	ESCUTCHEON (B)		107	4-246-563-21	ESCUTCHEON (A)	
103	4-246-562-22	BASE (L), PANEL		108	4-250-643-01	SHEET (ES-A), ADHESIVE	
104	4-246-565-21	ESCUTCHEON (C)		#3	7-685-548-19	SCREW +BTP 3X12 TYPE2 N-S	
105	4-975-105-41	WINDOW, RAY CATCHER					

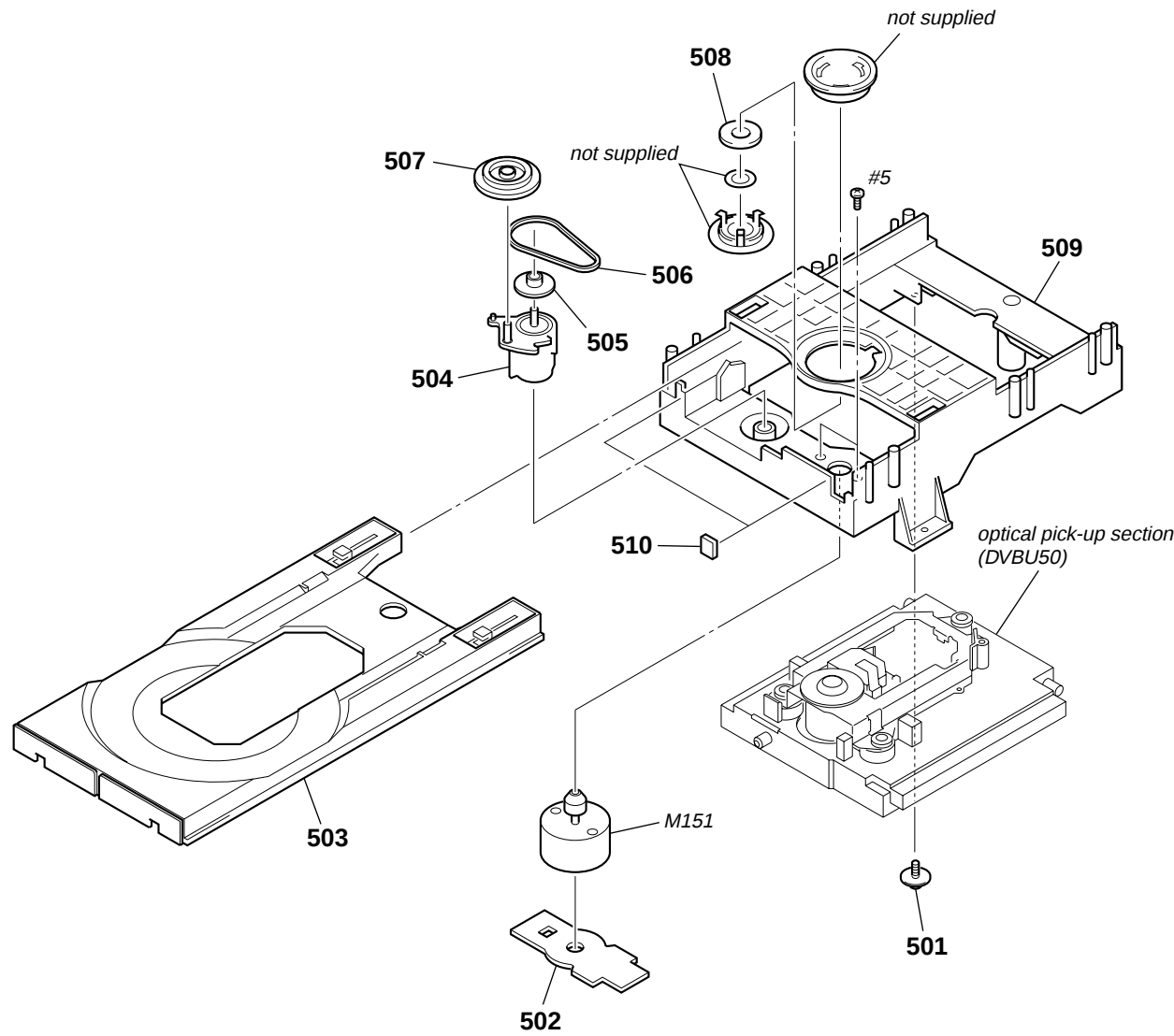
7-4. MAIN BOARD SECTION



Note: If Ref. No. 154 is replaced, install it after bending it in the same form as that before replacement.

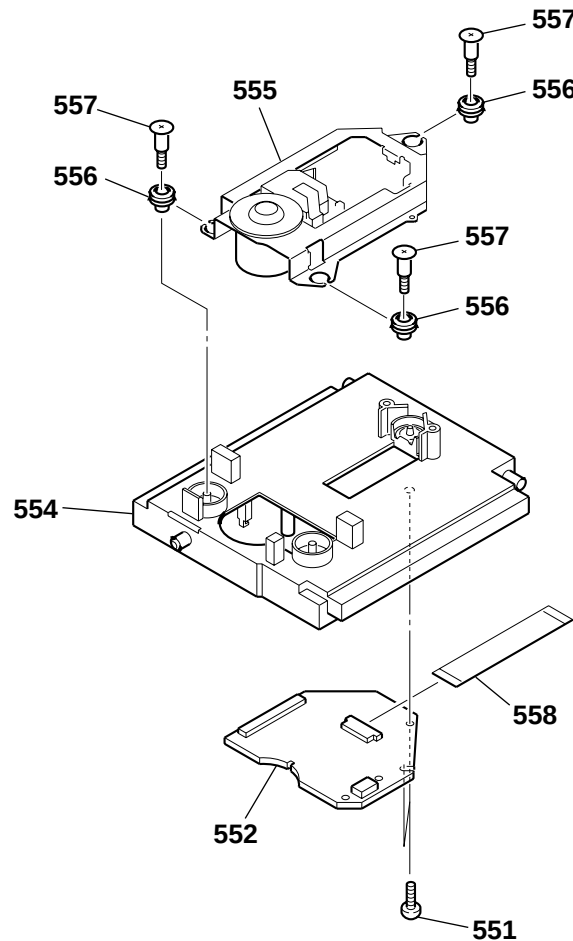
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	X-4955-348-1	FOOT ASSY		△J110	1-819-867-11	INLET, AC 2P (∼ AC IN)	
152	3-703-249-02	SCREW, S TIGHT, +PTTWH 3X6		△T101	1-443-287-11	TRANSFORMER, POWER	
153	4-860-518-00	CUSHION		△T102	1-445-050-11	TRANSFORMER, POWER	
154	1-833-023-11	WIRE (FLAT TYPE) (31 CORE)		#1	7-685-872-01	SCREW +BVTT 3X8 (S)	
155	1-828-334-51	WIRE (FLAT TYPE) (13 CORE)		#4	7-685-885-09	SCREW +BVTT 4X16 (S)	
156	3-704-515-22	SCREW (BV/RING)		#7	7-685-246-19	SCREW +KTP 3X8 TYPE2 NON-SLIT	
157	A-1192-383-A	MAIN BOARD, COMPLETE					

7-5. MECHANISM DECK SECTION
(CDM66D-DVBU50)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501	4-227-899-31	SCREW (DIA. 12), FROATING		507	4-232-711-01	GEAR (LD)	
502	1-645-721-11	LOADING BOARD		508	3-053-844-01	YOKE	
503	4-231-530-05	TRAY (66)		509	4-231-529-01	CHASSIS (66)	
504	4-232-712-01	CAM (66)		510	4-232-682-01	CUSHION (66)	
505	4-232-710-01	PULLEY (LD)					
506	4-232-713-01	BELT (LD)		M151	A-4604-363-A	MOTOR (L) ASSY (LOADING)	
				#5	7-621-775-10	SCREW +B 2.6X4	

7-6. OPTICAL PICK-UP SECTION (DVBU50)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
551	4-218-253-52	SCREW (M2.6), +BTTP		556	3-053-847-31	INSULATOR	
552	A-4750-527-A	WALTZ-RF BOARD, COMPLETE		557	4-981-923-01	SCREW (M), STEP	
554	4-240-953-05	HOLDER (66D)		558	1-824-106-51	CABLE, FLEXIBLE FLAT (0.5mmPITCH)	
△555	A-1109-164-A	OPTICAL TRAVERSE UNIT (DBU-3)					

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
 - -XX and -X mean standardized parts, so they may have some difference from the original one.
 - RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- 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.

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

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
		AC INLET BOARD *****					C818	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
							C819	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
							C821	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
		< CAPACITOR >					C822	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
△ C110	1-112-872-51	CERAMIC	0.0047uF	20%	250V		C823	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
△ C111	1-112-872-51	CERAMIC	0.0047uF	20%	250V		C824	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
							C825	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
		< CONNECTOR >					C827	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
							C829	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
CN110	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P											
* CN111	1-564-321-21	PIN, CONNECTOR (3.96mm PITCH) 2P					C831	1-124-589-11	ELECT	47uF	20%	16V	
CN112	1-770-128-11	PIN, CONNECTOR (3.96mm PITCH) 2P					C832	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
* CN113	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P											
									< CONNECTOR >				
		< COIL >											
△ L110	1-421-915-11	COIL, LINE FILTER					CN801	1-779-550-21	CONNECTOR, FFC (LIF (NON-ZIF)) 13P				
*****									< FERRITE BEAD >				
		ACSW BOARD *****					FB801	1-414-595-11	INDUCTOR, FERRITE BEAD				
									< FLUORESCENT INDICATOR TUBE >				
		< CAPACITOR >					FL801	1-518-992-11	INDICATOR TUBE, FLUORESCENT				
△ C891	1-112-871-51	CERAMIC	0.0022uF	20%	250V				< IC >				
							IC801	6-804-318-01	IC uPD780232GC-706-8BT-A				
△ S891	1-572-267-51	SWITCH, PUSH (AC POWER) (1 KEY) (POWER)					IC802	6-600-349-31	IC NJL24H400A				
*****									< TRANSISTOR >				
		DISPLAY BOARD *****					Q821	8-729-027-43	TRANSISTOR	DTC114EKA-T146			
							Q822	8-729-027-43	TRANSISTOR	DTC114EKA-T146			
	4-949-935-41	CUSHION (FL)					Q823	8-729-027-43	TRANSISTOR	DTC114EKA-T146			
							Q824	8-729-027-43	TRANSISTOR	DTC114EKA-T146			
		< CAPACITOR >					Q825	8-729-027-43	TRANSISTOR	DTC114EKA-T146			
C801	1-124-584-00	ELECT	100uF	20%	6.3V				< RESISTOR >				
C802	1-164-156-11	CERAMIC CHIP	0.1uF		25V		R805	1-216-833-11	METAL CHIP	10K	5%	1/10W	
C803	1-164-156-11	CERAMIC CHIP	0.1uF		25V		R817	1-216-833-11	METAL CHIP	10K	5%	1/10W	
C804	1-164-156-11	CERAMIC CHIP	0.1uF		25V		R818	1-216-833-11	METAL CHIP	10K	5%	1/10W	
C805	1-164-156-11	CERAMIC CHIP	0.1uF		25V		R819	1-216-833-11	METAL CHIP	10K	5%	1/10W	
C806	1-165-319-11	CERAMIC CHIP	0.1uF		50V		R820	1-216-833-11	METAL CHIP	10K	5%	1/10W	
C811	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		R821	1-216-845-11	METAL CHIP	100K	5%	1/10W	
C812	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		R822	1-216-845-11	METAL CHIP	100K	5%	1/10W	
C813	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		R823	1-216-845-11	METAL CHIP	100K	5%	1/10W	
C816	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		R824	1-216-845-11	METAL CHIP	100K	5%	1/10W	
C817	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		R825	1-216-845-11	METAL CHIP	100K	5%	1/10W	

DISPLAY

HP

JOG

KEY-L

KEY-R

LOADING

MAIN

Ref. No.	Part No.	Description			Remark
R826	1-216-833-11	METAL CHIP	10K	5%	1/10W
R827	1-216-845-11	METAL CHIP	100K	5%	1/10W
R828	1-216-845-11	METAL CHIP	100K	5%	1/10W
R831	1-216-805-11	METAL CHIP	47	5%	1/10W
R832	1-216-809-11	METAL CHIP	100	5%	1/10W
< VIBRATOR >					
X801	1-795-058-21	VIBRATOR, CERAMIC (5MHz)			

HP BOARD					

< CAPACITOR >					
C881	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C882	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C883	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
< JACK >					
J881	1-770-904-11	JACK (LARGE TYPE) (PHONES)			
< FERRITE BEAD >					
L881	1-410-397-21	FERRITE	1.1uH		
L882	1-410-397-21	FERRITE	1.1uH		
L883	1-410-397-21	FERRITE	1.1uH		
< VARIABLE RESISTOR >					
RV881	1-227-185-11	RES, VAR, CARBON 1K/1K (PHONE LEVEL)			

JOG BOARD					

< JUMPER RESISTOR >					
JW851	1-216-296-11	SHORT CHIP	0		
< RESISTOR >					
R854	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
< ROTARY ENCODER >					
S855	1-475-543-11	ENCODER, ROTARY			
(I◀◀ AMS ▶▶I, PUSH ENTER)					

KEY-L BOARD					

< CONNECTOR >					
CN813	1-506-481-11	PIN, CONNECTOR 2P			
< RESISTOR >					
R861	1-216-821-11	METAL CHIP	1K	5%	1/10W
R862	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R863	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R864	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description	Remark		
< SWITCH >					
S861	1-762-875-21	SWITCH, KEYBOARD (MENU)			
S862	1-762-875-21	SWITCH, KEYBOARD (SA-CD/CD)			
S863	1-762-875-21	SWITCH, KEYBOARD (MULTI/2CH)			
S865	1-762-875-21	SWITCH, KEYBOARD (TIME/TEXT)			

KEY-R BOARD					

< CONNECTOR >					
* CN810	1-568-941-11	PIN, CONNECTOR 3P			
< RESISTOR >					
R841	1-216-821-11	METAL CHIP	1K	5%	1/10W
R842	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R843	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R844	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R845	1-216-833-11	METAL CHIP	10K	5%	1/10W
R851	1-216-821-11	METAL CHIP	1K	5%	1/10W
R852	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R853	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
< SWITCH >					
S841	1-762-875-21	SWITCH, KEYBOARD (■)			
S842	1-762-875-21	SWITCH, KEYBOARD (▶)			
S843	1-762-875-21	SWITCH, KEYBOARD (■)			
S851	1-762-875-21	SWITCH, KEYBOARD (≡)			

1-645-721-11 LOADING BOARD					

< CONNECTOR >					
* CN151	1-568-943-11	PIN, CONNECTOR 5P			
< SWITCH >					
S271	1-572-086-11	SWITCH, LEAF (LOADING OUT)			
S272	1-572-086-11	SWITCH, LEAF (LOADING IN)			

A-1192-383-A MAIN BOARD, COMPLETE					

< CAPACITOR >					
C201	1-112-115-11	ELECT	1000uF	20%	6.3V
C202	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C206	1-115-156-11	CERAMIC CHIP	1uF		10V
C208	1-115-156-11	CERAMIC CHIP	1uF		10V
C212	1-128-991-21	ELECT CHIP	10uF	20%	50V
C236	1-115-156-11	CERAMIC CHIP	1uF		10V
C238	1-115-156-11	CERAMIC CHIP	1uF		10V
C242	1-128-991-21	ELECT CHIP	10uF	20%	50V
C266	1-115-156-11	CERAMIC CHIP	1uF		10V
C268	1-115-156-11	CERAMIC CHIP	1uF		10V
C272	1-128-991-21	ELECT CHIP	10uF	20%	50V
C281	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C302	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C303	1-164-156-11	CERAMIC CHIP	0.1uF		25V

SCD-XA1200ES

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C305	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C713	1-117-681-11	ELECT CHIP	100uF	20%	16V
C321	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	C714	1-126-246-11	ELECT CHIP	220uF	20%	4V
C322	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	C715	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C324	1-115-156-11	CERAMIC CHIP	1uF		10V	C716	1-117-681-11	ELECT CHIP	100uF	20%	16V
C325	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	C721	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C331	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C722	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C342	1-126-193-11	ELECT CHIP	1uF	20%	50V	C723	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C343	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C726	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C344	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C727	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C345	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	C729	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C351	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C730	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C362	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C731	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C364	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C733	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C366	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C734	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C371	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C736	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C376	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C737	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C402	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C738	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C403	1-164-217-11	CERAMIC CHIP	150PF	5%	50V	C739	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C404	1-115-156-11	CERAMIC CHIP	1uF		10V	C740	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C405	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C741	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C406	1-112-075-11	ELECT CHIP	47uF	20%	16V	C742	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C412	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C743	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C432	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C744	1-115-156-11	CERAMIC CHIP	1uF		10V
C433	1-164-217-11	CERAMIC CHIP	150PF	5%	50V	C745	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C434	1-115-156-11	CERAMIC CHIP	1uF		10V	C746	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C435	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C748	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C436	1-128-992-21	ELECT CHIP	47uF	20%	25V	C749	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C462	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C750	1-115-156-11	CERAMIC CHIP	1uF		10V
C463	1-164-217-11	CERAMIC CHIP	150PF	5%	50V	C751	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C464	1-115-156-11	CERAMIC CHIP	1uF		10V	C752	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C465	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C753	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C466	1-128-992-21	ELECT CHIP	47uF	20%	25V	C754	1-126-246-11	ELECT CHIP	220uF	20%	4V
C502	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C755	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C503	1-164-217-11	CERAMIC CHIP	150PF	5%	50V	C756	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C504	1-115-156-11	CERAMIC CHIP	1uF		10V	C757	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C505	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C758	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C506	1-112-075-11	ELECT CHIP	47uF	20%	16V	C759	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C512	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C760	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C532	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C761	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C533	1-164-217-11	CERAMIC CHIP	150PF	5%	50V	C762	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C534	1-115-156-11	CERAMIC CHIP	1uF		10V	C763	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C535	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C764	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C536	1-128-992-21	ELECT CHIP	47uF	20%	25V	C765	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C562	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C766	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C563	1-164-217-11	CERAMIC CHIP	150PF	5%	50V	C767	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C564	1-115-156-11	CERAMIC CHIP	1uF		10V	C768	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C565	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C769	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C566	1-128-992-21	ELECT CHIP	47uF	20%	25V	C770	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C701	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C771	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C702	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	C772	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C703	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C775	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C704	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C776	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C705	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C777	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C706	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C778	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C709	1-126-246-11	ELECT CHIP	220uF	20%	4V	C779	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C711	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C780	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C712	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C781	1-164-156-11	CERAMIC CHIP	0.1uF		25V
						C782	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C783	1-117-681-11	ELECT CHIP 100uF 20%	16V	D509	8-719-941-09	DIODE DAP202U	
C785	1-126-246-11	ELECT CHIP 220uF 20%	4V	D511	8-719-941-09	DIODE DAP202U	
C787	1-164-156-11	CERAMIC CHIP 0.1uF	25V	D921	8-719-053-18	DIODE 1SR154-400TE-25	
C788	1-164-156-11	CERAMIC CHIP 0.1uF	25V	D922	8-719-053-18	DIODE 1SR154-400TE-25	
C789	1-164-156-11	CERAMIC CHIP 0.1uF	25V	D923	8-719-053-18	DIODE 1SR154-400TE-25	
C793	1-164-156-11	CERAMIC CHIP 0.1uF	25V	D924	8-719-053-18	DIODE 1SR154-400TE-25	
C794	1-164-156-11	CERAMIC CHIP 0.1uF	25V	D931	8-719-053-18	DIODE 1SR154-400TE-25	
C795	1-117-681-11	ELECT CHIP 100uF 20%	16V	D932	8-719-053-18	DIODE 1SR154-400TE-25	
C796	1-117-681-11	ELECT CHIP 100uF 20%	16V	D933	8-719-053-18	DIODE 1SR154-400TE-25	
C800	1-164-156-11	CERAMIC CHIP 0.1uF	25V	D934	8-719-053-18	DIODE 1SR154-400TE-25	
C804	1-164-156-11	CERAMIC CHIP 0.1uF	25V	D936	8-719-053-18	DIODE 1SR154-400TE-25	
C809	1-164-677-11	CERAMIC CHIP 0.033uF 10%	16V	D961	8-719-941-86	DIODE DAN202U	
C813	1-164-677-11	CERAMIC CHIP 0.033uF 10%	16V	D963	6-500-697-01	DIODE UDZSTE-173.3B	
C814	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V	D964	8-719-988-61	DIODE 1SS355TE-17	
C815	1-164-245-11	CERAMIC CHIP 0.015uF 10%	25V	D965	8-719-027-76	DIODE 1SS357-TPH3	
C816	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	D971	8-719-053-18	DIODE 1SR154-400TE-25	
C817	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	D972	8-719-083-87	DIODE UDZSTE-1733B	
C819	1-115-156-11	CERAMIC CHIP 1uF	10V	D973	8-719-069-60	DIODE UDZSTE-179.1B	
C820	1-164-816-11	CERAMIC CHIP 220PF 2%	50V	D981	8-719-053-18	DIODE 1SR154-400TE-25	
C821	1-162-927-11	CERAMIC CHIP 100PF 5%	50V	D983	8-719-053-18	DIODE 1SR154-400TE-25	
C822	1-164-816-11	CERAMIC CHIP 220PF 2%	50V	D984	8-719-053-18	DIODE 1SR154-400TE-25	
C825	1-162-965-11	CERAMIC CHIP 0.0015uF 10%	50V			< EARTH TERMINAL >	
C828	1-110-563-11	CERAMIC CHIP 0.068uF 10%	16V	ETP910	1-537-771-21	TERMINAL BOARD, GROUND	
C829	1-110-563-11	CERAMIC CHIP 0.068uF 10%	16V			< FERRITE BEAD >	
C830	1-162-927-11	CERAMIC CHIP 100PF 5%	50V	FB201	1-500-283-11	INDUCTOR, FERRITE BEAD	
C832	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V	FB703	1-414-595-11	INDUCTOR, FERRITE BEAD	
C901	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	FB710	1-414-595-11	INDUCTOR, FERRITE BEAD	
C910	1-164-156-11	CERAMIC CHIP 0.1uF	25V			< FILTER >	
C911	1-164-156-11	CERAMIC CHIP 0.1uF	25V	FL606	1-234-177-21	FILTER, CHIP EMI	
C920	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V			< IC >	
C921	1-128-546-11	ELECT 10000uF 20%	10V	IC200	6-703-420-01	IC DSD1751DBQR	
C923	1-164-156-11	CERAMIC CHIP 0.1uF	25V	IC230	6-703-420-01	IC DSD1751DBQR	
C924	1-126-935-11	ELECT 470uF 20%	16V	IC260	6-703-420-01	IC DSD1751DBQR	
C931	1-126-939-11	ELECT 10000uF 20%	16V	IC309	8-759-700-09	IC NJM2043M-D	
C932	1-126-942-61	ELECT 1000uF 20%	25V	IC320	8-759-549-25	IC SN74LVU04APWR	
C933	1-164-156-11	CERAMIC CHIP 0.1uF	25V	IC330	6-600-012-01	IC TOTX141L (DIGITAL (CD) OUT OPTICAL)	
C934	1-112-123-11	ELECT 470uF 20%	16V	IC400	8-759-710-97	IC NJM4565M-D	
C953	1-164-156-11	CERAMIC CHIP 0.1uF	25V	IC430	8-759-710-97	IC NJM4565M-D	
C954	1-126-935-11	ELECT 470uF 20%	16V	IC460	8-759-710-97	IC NJM4565M-D	
C961	1-128-991-21	ELECT CHIP 10uF 20%	50V	IC701	8-759-636-64	IC M51957BFP-600C	
C962	1-164-156-11	CERAMIC CHIP 0.1uF	25V	* IC702	6-703-671-01	IC BR9040F-WE2	
C970	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	IC703	6-700-398-01	IC uPC2918T-E1	
C971	1-128-552-51	ELECT 47uF 20%	63V	IC705	6-805-930-01	IC HD6432238RP02TEV	
C972	1-128-991-21	ELECT CHIP 10uF 20%	50V	IC706	8-752-420-59	IC CXD2754Q	
C973	1-126-395-11	ELECT CHIP 22uF 20%	16V	IC708	6-703-791-01	IC MSM56V16160F-8T3FM1	
C981	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	IC712	6-702-157-01	IC FAN8035L	
C995	1-104-666-11	ELECT 220uF 20%	25V	IC920	6-705-463-01	IC BA33BC0T	
		< CONNECTOR >		IC950	6-705-469-01	IC BA50BC0FP-E2	
CN301	1-506-468-11	PIN, CONNECTOR 3P		IC985	8-759-460-81	IC BA12FP-E2	
CN702	1-784-387-11	CONNECTOR, FFC/FPC 31P				< JACK >	
CN703	1-793-989-21	FFC/CONNECTOR, FPC (LIF (NON-ZIF)) 13P		J341	1-818-300-11	JACK, PIN 1P (DIGITAL (CD) OUT COAXIAL)	
CN901	1-784-924-11	PIN, CONNECTOR 8P					
CN981	1-785-101-11	PIN, CONNECTOR (3.96mm PITCH) 3P					
		< DIODE >					
D321	8-719-027-76	DIODE 1SS357-TPH3					

SCD-XA1200ES

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark			
J351	1-785-489-11	JACK, PIN 6P (ANALOG 5.1CH OUT FRONT/ SURROUND/ CENTER/SUB WOOFER)				R438	1-216-815-11	METAL CHIP	330	5%	1/10W	
J352	1-785-868-21	JACK, PIN 2P (ANALOG 2CH OUT)				R439	1-216-813-11	METAL CHIP	220	5%	1/10W	
						R464	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
		< COIL/JUMPER RESISTOR >				R467	1-216-845-11	METAL CHIP	100K	5%	1/10W	
L341	1-412-056-11	INDUCTOR	4.7uH				R468	1-216-815-11	METAL CHIP	330	5%	1/10W
L342	1-216-864-11	SHORT CHIP	0				R469	1-216-813-11	METAL CHIP	220	5%	1/10W
							R504	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
		< TRANSISTOR >				R506	1-216-841-11	METAL CHIP	47K	5%	1/10W	
Q301	8-729-924-04	TRANSISTOR	DTA143TU				R507	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q303	8-729-924-04	TRANSISTOR	DTA143TU				R508	1-216-815-11	METAL CHIP	330	5%	1/10W
Q305	8-729-924-04	TRANSISTOR	DTA143TU				R509	1-216-813-11	METAL CHIP	220	5%	1/10W
Q341	8-729-120-28	TRANSISTOR	2SC1623-L5L6				R511	1-216-809-11	METAL CHIP	100	5%	1/10W
Q401	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16				R513	1-216-809-11	METAL CHIP	100	5%	1/10W
Q402	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16				R519	1-216-809-11	METAL CHIP	100	5%	1/10W
Q403	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16				R520	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q431	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16				R534	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
Q432	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16				R537	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q462	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16				R538	1-216-815-11	METAL CHIP	330	5%	1/10W
Q463	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16				R539	1-216-813-11	METAL CHIP	220	5%	1/10W
Q501	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16				R564	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
Q502	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16				R567	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q503	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16				R568	1-216-815-11	METAL CHIP	330	5%	1/10W
Q531	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16				R569	1-216-813-11	METAL CHIP	220	5%	1/10W
Q532	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16				R701	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q562	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16				R702	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q563	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16				R703	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q961	8-729-027-56	TRANSISTOR	DTC143TKA-T146				R707	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q971	8-729-019-72	TRANSISTOR	2SB1260				R708	1-216-809-11	METAL CHIP	100	5%	1/10W
		< RESISTOR/CAPACITOR >				R731	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R201	1-216-833-11	METAL CHIP	10K	5%	1/10W	R752	1-216-864-11	SHORT CHIP	0			
R202	1-216-839-11	METAL CHIP	33K	5%	1/10W	R781	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R321	1-216-857-11	METAL CHIP	1M	5%	1/10W	R782	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R322	1-216-864-11	SHORT CHIP	0			R783	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R323	1-216-821-11	METAL CHIP	1K	5%	1/10W	R791	1-216-805-11	METAL CHIP	47	5%	1/10W	
R324	1-216-809-11	METAL CHIP	100	5%	1/10W	R804	1-216-815-11	METAL CHIP	330	5%	1/10W	
R326	1-216-801-11	METAL CHIP	22	5%	1/10W	R806	1-216-150-11	RES-CHIP	10	5%	1/8W	
R328	1-216-801-11	METAL CHIP	22	5%	1/10W	R819	1-216-847-11	METAL CHIP	150K	5%	1/10W	
R330	1-216-801-11	METAL CHIP	22	5%	1/10W	R820	1-216-847-11	METAL CHIP	150K	5%	1/10W	
R341	1-216-845-11	METAL CHIP	100K	5%	1/10W	R831	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R342	1-216-805-11	METAL CHIP	47	5%	1/10W	R840	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R343	1-216-815-11	METAL CHIP	330	5%	1/10W	R846	1-216-842-11	METAL CHIP	56K	5%	1/10W	
R344	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	R852	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R345	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	R853	1-216-842-11	METAL CHIP	56K	5%	1/10W	
R346	1-216-864-11	SHORT CHIP	0			R857	1-218-883-11	METAL CHIP	33K	0.5%	1/10W	
R347	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R858	1-216-846-11	METAL CHIP	120K	5%	1/10W	
R404	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R860	1-216-855-11	METAL CHIP	680K	5%	1/10W	
R406	1-216-841-11	METAL CHIP	47K	5%	1/10W	R861	1-216-850-11	METAL CHIP	270K	5%	1/10W	
R407	1-216-845-11	METAL CHIP	100K	5%	1/10W	R865	1-216-842-11	METAL CHIP	56K	5%	1/10W	
R408	1-216-815-11	METAL CHIP	330	5%	1/10W	R866	1-216-839-11	METAL CHIP	33K	5%	1/10W	
R409	1-216-813-11	METAL CHIP	220	5%	1/10W	R869	1-216-842-11	METAL CHIP	56K	5%	1/10W	
R411	1-216-809-11	METAL CHIP	100	5%	1/10W	R870	1-216-839-11	METAL CHIP	33K	5%	1/10W	
R413	1-216-809-11	METAL CHIP	100	5%	1/10W	R871	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R419	1-216-809-11	METAL CHIP	100	5%	1/10W	R872	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R420	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R874	1-218-883-11	METAL CHIP	33K	0.5%	1/10W	
R434	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R876	1-216-844-11	METAL CHIP	82K	5%	1/10W	
R437	1-216-845-11	METAL CHIP	100K	5%	1/10W	R877	1-216-853-11	METAL CHIP	470K	5%	1/10W	
						R878	1-216-853-11	METAL CHIP	470K	5%	1/10W	
						R880	1-216-845-11	METAL CHIP	100K	5%	1/10W	

Ref. No.	Part No.	Description	Remark		
R885	1-216-835-11	METAL CHIP	15K	5%	1/10W
R886	1-216-844-11	METAL CHIP	82K	5%	1/10W
R888	1-216-835-11	METAL CHIP	15K	5%	1/10W
R889	1-216-864-11	SHORT CHIP	0		
R892	1-218-897-11	METAL CHIP	120K	0.5%	1/10W
R893	1-218-897-11	METAL CHIP	120K	0.5%	1/10W
R894	1-216-842-11	METAL CHIP	56K	5%	1/10W
R895	1-216-842-11	METAL CHIP	56K	5%	1/10W
R897	1-216-853-11	METAL CHIP	470K	5%	1/10W
R899	1-216-849-11	METAL CHIP	220K	5%	1/10W
R961	1-216-833-11	METAL CHIP	10K	5%	1/10W
R962	1-216-821-11	METAL CHIP	1K	5%	1/10W
R963	1-216-821-11	METAL CHIP	1K	5%	1/10W
R971	1-216-833-11	METAL CHIP	10K	5%	1/10W
R972	1-216-833-11	METAL CHIP	10K	5%	1/10W
R973	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R975	1-216-839-11	METAL CHIP	33K	5%	1/10W
R976	1-216-809-11	METAL CHIP	100	5%	1/10W
R977	1-216-809-11	METAL CHIP	100	5%	1/10W
R978	1-216-837-11	METAL CHIP	22K	5%	1/10W
R979	1-216-833-11	METAL CHIP	10K	5%	1/10W
< COMPOSITION CIRCUIT BLOCK >					
RB301	1-233-414-11	RES, CHIP NETWORK 4.7K (3216)			
RB302	1-233-873-21	RES, CHIP NETWORK 220K (3216)			
RB303	1-236-908-11	RES, CHIP NETWORK 10K			
RB402	1-233-419-21	RES, CHIP NETWORK 6.8K (3216)			
RB410	1-233-413-11	RES, CHIP NETWORK 2.2K (3216)			
RB432	1-233-419-21	RES, CHIP NETWORK 6.8K (3216)			
RB441	1-233-413-11	RES, CHIP NETWORK 2.2K (3216)			
RB442	1-233-413-11	RES, CHIP NETWORK 2.2K (3216)			
RB462	1-233-419-21	RES, CHIP NETWORK 6.8K (3216)			
RB502	1-233-419-21	RES, CHIP NETWORK 6.8K (3216)			
RB532	1-233-419-21	RES, CHIP NETWORK 6.8K (3216)			
RB562	1-233-419-21	RES, CHIP NETWORK 6.8K (3216)			
RB601	1-236-908-11	RES, CHIP NETWORK 10K			
RB602	1-233-412-11	RES, CHIP NETWORK 1K (3216)			
RB603	1-233-577-11	RES, CHIP NETWORK 470 (3216)			
RB604	1-233-414-11	RES, CHIP NETWORK 4.7K (3216)			
RB605	1-236-908-11	RES, CHIP NETWORK 10K			
RB606	1-236-908-11	RES, CHIP NETWORK 10K			
RB607	1-236-908-11	RES, CHIP NETWORK 10K			
RB609	1-236-908-11	RES, CHIP NETWORK 10K			
RB610	1-233-578-11	RES, CHIP NETWORK 47K (3216)			
RB611	1-236-908-11	RES, CHIP NETWORK 10K			
RB612	1-236-908-11	RES, CHIP NETWORK 10K			
RB613	1-236-908-11	RES, CHIP NETWORK 10K			
RB615	1-233-577-11	RES, CHIP NETWORK 470 (3216)			
RB616	1-233-577-11	RES, CHIP NETWORK 470 (3216)			
RB617	1-233-577-11	RES, CHIP NETWORK 470 (3216)			
< VIBRATOR >					
X321	1-795-535-21	VIBRATOR, CRYSTAL (11.2896MHz)			

Ref. No.	Part No.	Description	Remark		
	A-4750-527-A	WALTZ-RF BOARD, COMPLETE	*****		
		< CAPACITOR >			
C001	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C002	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C004	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C005	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C006	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C007	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C008	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C009	1-124-779-00	ELECT CHIP	10uF	20%	16V
C011	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C015	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C016	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C017	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C018	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C019	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C021	1-124-779-00	ELECT CHIP	10uF	20%	16V
C022	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C023	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C024	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C025	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C026	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C027	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C028	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C031	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C032	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C033	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C034	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C035	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C036	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C038	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C039	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C040	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C043	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C044	1-124-779-00	ELECT CHIP	10uF	20%	16V
C046	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C047	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C048	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
		< CONNECTOR >			
CN001	1-815-031-61	CONNECTOR, FFC/FPC (ZIF) 24P			
CN002	1-784-879-21	CONNECTOR, FFC (LIF (NON-ZIF)) 31P			
CN003	1-784-861-21	CONNECTOR, FFC (LIF (NON-ZIF)) 9P			
		< DIODE >			
D001	8-719-988-61	DIODE 1SS355TE-17			
D004	8-719-988-61	DIODE 1SS355TE-17			
		< IC >			
IC001	6-703-445-01	IC SP3726A			
		< COIL >			
L001	1-412-031-11	INDUCTOR	47uH		
L002	1-412-031-11	INDUCTOR	47uH		

SCD-XA1200ES

WALTZ-RF TRANS

Ref. No.	Part No.	Description	Remark			
< TRANSISTOR >						
Q001	8-729-903-46	TRANSISTOR	2SB1132-P			
Q002	8-729-903-46	TRANSISTOR	2SB1132-P			
< RESISTOR >						
R002	1-216-809-11	METAL CHIP	100	5%	1/10W	
R003	1-216-809-11	METAL CHIP	100	5%	1/10W	
R004	1-216-864-11	SHORT CHIP	0			
R005	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R006	1-216-838-11	METAL CHIP	27K	5%	1/10W	
R007	1-216-803-11	METAL CHIP	33	5%	1/10W	
R008	1-216-803-11	METAL CHIP	33	5%	1/10W	
R009	1-216-820-11	METAL CHIP	820	5%	1/10W	
R010	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R011	1-216-809-11	METAL CHIP	100	5%	1/10W	
R013	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R018	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R020	1-216-803-11	METAL CHIP	33	5%	1/10W	
R023	1-216-803-11	METAL CHIP	33	5%	1/10W	
R025	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R029	1-216-809-11	METAL CHIP	100	5%	1/10W	
R037	1-216-834-11	METAL CHIP	12K	5%	1/10W	
R038	1-216-861-11	METAL CHIP	2.2M	5%	1/10W	
R045	1-216-813-11	METAL CHIP	220	5%	1/10W	
R052	1-216-864-11	SHORT CHIP	0			
R053	1-216-864-11	SHORT CHIP	0			
R054	1-216-864-11	SHORT CHIP	0			
R055	1-216-864-11	SHORT CHIP	0			

TRANS BOARD

MISCELLANEOUS

154	1-833-023-11	WIRE (FLAT TYPE) (31 CORE)				
155	1-828-334-51	WIRE (FLAT TYPE) (13 CORE)				
△ 555	A-1109-164-A	OPTICAL TRAVERSE UNIT (DBU-3)				
558	1-824-106-51	CABLE, FLEXIBLE FLAT (0.5mmPITCH)				
△ J110	1-819-867-11	INLET, AC 2P (∼ AC IN)				
M151	A-4604-363-A	MOTOR (L) ASSY (LOADING)				
△ T101	1-443-287-11	TRANSFORMER, POWER				
△ T102	1-445-050-11	TRANSFORMER, POWER				

Ref. No.	Part No.	Description	Remark
ACCESSORIES *****			
1-479-825-11	REMOTE COMMANDER (RM-ASU001)	(including battery cover)	
1-757-960-22	CORD, CONNECTION	(AUDIO CONNECTING CORD) (Black)	
1-791-732-12	CORD, CONNECTION	(AUDIO CONNECTING CORD) (Red and White)	
1-831-474-11	CORD, POWER		
2-696-254-11	MANUAL, INSTRUCTION	(ENGLISH, FRENCH, GERMAN, SPANISH)	
2-696-254-21	MANUAL, INSTRUCTION	(DUTCH, SWEDISH, ITALIAN, POLISH)	
4-228-696-01	COVER, BATTERY (for RM-ASU001)		

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Note: If Ref. No. 154 is replaced, install it after bending it in the same form as that before replacement.

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the top of the revised page allows you to jump to the next revised page.

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