CMT-X5CD/X5CDB/ X7CD/X7CDB

SERVICE MANUAL

Ver. 1.2 2014.06

Photo: CMT-X7CD

US Model
Canadian Model
Russian Model
Singapore Model
Korean Model
CMT-X5CD
AEP Model
CMT-X5CD/X5CDB/X7CD/X7CDB
UK Model
CMT-X5CDB/X7CDB
Australian Model
CMT-X5CDB
Chinese Model
CMT-X7CD

Note:
Be sure to keep your PC used for service and checking of this unit always updated with the latest version of your anti-virus software.
In case a virus affected unit was found during service, contact your Service Headquarters.

Model Name Using Similar Mechanism	NEW
CD Mechanism Type	CDM91-DVBU203
Optical Pick-up Block Name	CMS-S76RFS7G1 or CMS-S76RFS7GP

SPECIFICATIONS

Amplifier section (US and Canadian models)
AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
(The United States model only)
With 8 ohm loads, both channels driven, from 120 - 10,000 Hz; rated 12 watts per channel minimum RMS power, with no more than 0.7% total harmonic distortion from 250 milliwatts to rated output.
Power output (rated): 16 watts + 16 watts (at 8 ohms, 1 kHz, 1% THD)
RMS power output (reference: 20 watts + 20 watts (per channel at 8 ohms, 1 kHz)

Amplifier section (AEP, Russian, UK, Australian, Chinese, Singapore and Korean models)

Power output (rated):
16 watts + 16 watts (at 8 ohms, 1 kHz, 1% THD)

RMS power output (reference):
20 watts + 20 watts (per channel at 8 ohms, 1 kHz)

Inputs/Outputs

AUDIO IN:
AUDIO IN (external input) jack:
Stereo mini jack, sensitivity 700 mV, impedance 47 kilohms

USB:
USB port: Type A, 5 V DC 1.5 A

CD-DA/MP3 player section

System:
Compact disc and digital audio system

Laser Diode Properties:
Emission Duration: Continuous
Laser Output*: Less than 44.6 µW

* This output is the value measurement at a distance of 200mm from the objective lens surface on the Optical Pick-up Block with 7mm aperture.

Frequency response:
20 Hz – 20 kHz

Signal-to-noise ratio:
More than 90 dB

Dynamic range:
More than 90 dB

Tuner section

FM tuner section:
FM stereo, FM superheterodyne tuner
Tuning range:
87.5 MHz – 108.0 MHz (100 kHz step) (US, Canadian and Brazilian models)
87.5 MHz – 108.0 MHz (50 kHz step) (AEP, Russian, UK, Australian, Chinese, Singapore and Korean models)
Antenna:
FM lead antenna
Antenna terminals:
75 ohms unbalanced

DAB/DAB+ tuner section (CMT-X5CDB/X7CDB only):
FM stereo, DAB/FM superheterodyne tuner
Frequency range:
Band-III:
174.928 (5A) MHz – 239.200 (13F) MHz*
Antenna:
DAB/FM lead antenna:

DAB/DAB+ frequency table (Band-III):

Frequency	Label
174.928 MHz	5A
176.640 MHz	5B
178.352 MHz	5C
180.064 MHz	5D
181.936 MHz	6A
183.648 MHz	6B
185.360 MHz	6C
187.072 MHz	6D
188.928 MHz	7A
190.640 MHz	7B
192.352 MHz	7C
194.064 MHz	7D
195.936 MHz	8A
197.648 MHz	8B
199.360 MHz	8C
201.072 MHz	8D
202.928 MHz	9A
204.640 MHz	9B
206.352 MHz	9C
208.064 MHz	9D
209.936 MHz	10A
211.648 MHz	10B
213.360 MHz	10C
215.072 MHz	10D
216.928 MHz	11A
218.640 MHz	11B
220.352 MHz	11C
222.064 MHz	11D
223.936 MHz	12A
225.648 MHz	12B
227.360 MHz	12C
229.072 MHz	12D
230.784 MHz	13A
232.496 MHz	13B
234.208 MHz	13C
235.776 MHz	13D
237.488 MHz	13E
239.200 MHz	13F

* Frequencies are displayed to two decimal places on this system.

Speaker section

Speaker system:
Full-range speaker
Passive radiator

Rated impedance:
8 ohms

– Continued on next page –

PERSONAL AUDIO SYSTEM

9-893-964-03
2014F33-1

Sony Corporation
Published by Sony Techno Create Corporation

SONY®

BLUETOOTH section

Communication system:
BLUETOOTH Standard version 3.0

Output:
BLUETOOTH Standard Power Class 2

Maximum communication range:
Line of sight approx. 10 m [*1]

Frequency band:
2.4 GHz band (2.4000 GHz - 2.4835 GHz)

Modulation method:
FHSS

Compatible BLUETOOTH profiles [*2]:
A2DP (Advanced Audio Distribution Profile)
AVRCP (Audio Video Remote Control Profile)

Supported content protection method:
SCMS-T method

Supported codec:
SBC (Sub Band Codec), AAC, aptX

Transmission bandwidth:
20 Hz – 20,000 Hz (with 44.1 kHz sampling)

*1 The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, reception sensitivity, antenna's performance, operating system, software application, etc.

*2 BLUETOOTH standard profiles indicate the purpose of BLUETOOTH communication between devices.

Network section (CMT-X7CD/X7CDB)

LAN port:
RJ-45
10BASE-T/100BASE-TX
(The communication speed may vary depending on the communication environment. This system does not guarantee the communication speed and quality of 10BASE-T/100BASE-TX.)

Wireless LAN:
Compatible standards:
IEEE 802.11 b/g (WEP 64 bit, WEP 128 bit)
Frequency band 2.4 GHz band
(2.4000 GHz - 2.4835 GHz (AEP and UK models))
(2.412 GHz - 2.472 GHz (Chinese model))
Available channels ch1 to ch13
WPA/WPA2-PSK (AES)
WPA/WPA2-PSK (TKIP)

General

Power requirements:
AC 120 V, 60 Hz (US and Canadian models)
AC 220 V - 240 V, 50 Hz/60 Hz
(AEP, Russian, UK, Australian, Chinese, Singapore and Korean models)

Power consumption:
24 watts (CMT-X5CD/X5CDB)
27 watts (CMT-X7CD/X7CDB)

Dimensions (W/H/D) (incl. projecting parts):
Approx. 385 mm × 178 mm × 81 mm

Mass:
Approx. 2.7 kg

Supplied accessories:
Remote (RM-AMU197) (1) (Except Chinese model), Remote (RM-AMU198) (1) (Chinese model), CR2025 lithium battery (1), AC power cord (1), FM lead antenna (1) (CMT-X5CD/X7CD only), DAB/FM lead antenna (1) (CMT-X5CDB/X7CDB only), Quick Setup Guide (1) (CMT-X7CD/X7CDB only), Operating Instructions (1)

Design and specifications are subject to change without notice.

Standby power consumption: 0.5 W (all wireless network ports off)
Networked Standby mode: 3 W (all wireless network ports on) (CMT-X5CD/X5CDB)
Networked Standby mode: 6 W (all wireless network ports on) (CMT-X7CD/X7CDB)

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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)

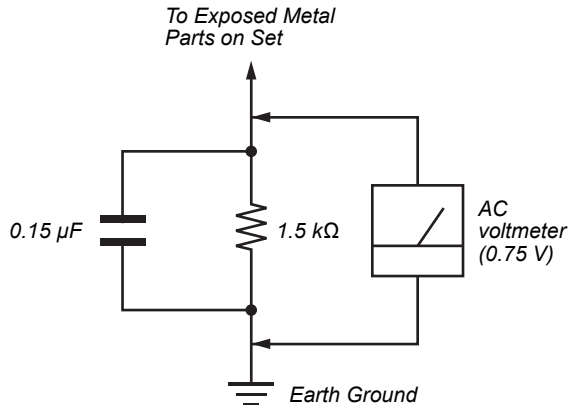


Fig. A. Using an AC voltmeter to check AC leakage.

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.

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 bottom exterior.

This appliance is classified as a CLASS 1 LASER product based on GB7247.1-2012. This marking is located on the bottom exterior of the unit.

TABLE OF CONTENTS

Accessories are given in the last of the electrical parts list.

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

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

关于安全相关零部件的警告

原理图和零件清单中标有⚠记号的零部件，或带有⚠记号的虚线所表示的零部件，对于安全操作至关重要。更换时，必须依据本手册或索尼公司追加发行的手册中列明的零件号，使用索尼公司的零件进行。

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 pickup 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)

: 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.

CHECKING THE OPERATION AFTER REPAIR

After repair completion, connect the "iPod" etc. corresponding to this unit, and check the operation of playback, charge, etc.

NOTE OF REPLACING THE TUNER BOARD

When the TUNER board is defective, replace the complete mounted board.

NOTE OF REPLACING THE DAB BOARD

When the DAB board is defective, replace the complete mounted board.

NOTE OF REPLACING THE ANTENNA BOARD

When the ANTENNA board is defective, replace the WIFI ANTENNA 2.4 GHz SVX (Ref No. ANT1).

NOTE OF REPLACING THE TOUCH KEY BOARD

When the TOUCH KEY board is defective, replace the REAR SVX PANEL (Ref No. RP1).

NOTE OF REPLACING THE POWER KEY BOARD

When the POWER KEY board is defective, replace the REAR SVX PANEL (Ref No. RP1).

NOTE OF REPLACING THE MS-091 BOARD

When the MS-091 board is defective, replace the LOADING ASSY (Ref. No. CDM1).

NOTE OF REPLACING THE IC202, IC203, IC502, IC602, IC851 AND IC907 ON THE MAIN BOARD

IC202, IC203, IC502, IC602, IC851 and IC907 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

NOTE OF REPLACING THE CN1505 ON THE JACK-NET BOARD

CN1505 on the JACK-NET board cannot replace with single. When this part is damaged, replace the complete mounted board.

TEST DISCS

Use following TEST DISC (for CD) when this unit confirms the operation and checks it.

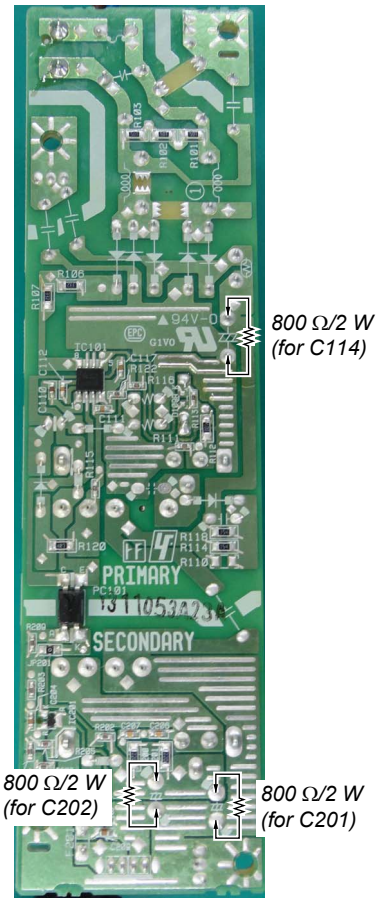
Part No.	Description
3-702-101-01	DISC (YEDS-18), TEST
4-225-203-01	DISC (PATD-012), TEST
J-2501-307-A	DISC (HLX-A1), TEST

CAPACITOR ELECTRICAL DISCHARGE PROCESSING

When checking the board, the electrical discharge is necessary for the electric shock prevention.
Connect the resistor to both ends of respective capacitors.

- Power unit (Ref. No. PWR1)
  C114, C201, C202

– POWER UNIT (Conductor Side) –

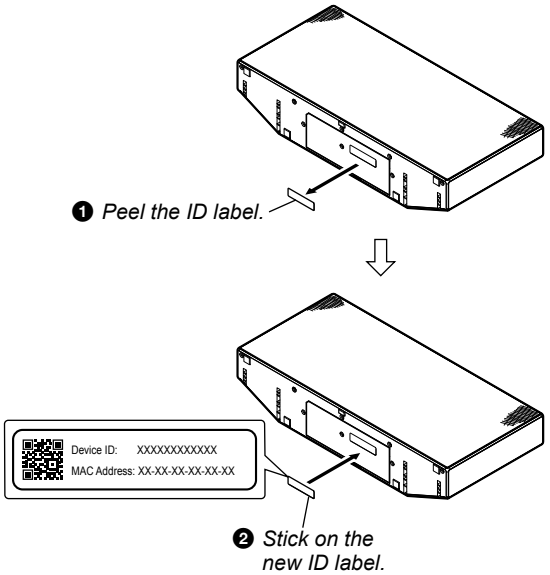


NOTE OF REPLACING THE WiFi MODULE (CMT-X7CD/X7CDB only)

When replacing the WiFi module (Ref. No. WIFI1), MAC address and DEVICE_ID are changed. Print the page 7 and page 9, cut it, and hand over it to the customer with the unit, when returning the unit that the repair is completed to the customer.

PROCESSING OF REPLACING THE WiFi MODULE (CMT-X7CD/X7CDB only)

When replacing the WiFi module (Ref. No. WIFI1), peel the ID label stuck on the bottom side of the unit, and stick on the new ID label (refer to the following figure) enclosed with the new WiFi module (Ref. No. WIFI1)



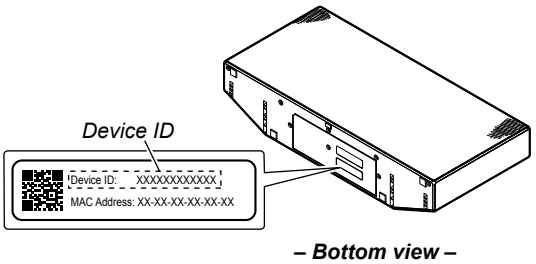
– Bottom view –

DELETION METHOD OF USER REGISTRATION OF SEN SERVICE

By checking Device ID, user registration of the internet video of this unit can be compulsorily reset.
(Device ID is "the hexadecimal number of 12 figures")
When this unit needs compulsive reset, check the Device ID and consult with a service headquarters.

Procedure:

1. Check the ID label stuck on the bottom side of the unit.
2. Device ID indicated on the ID label is recorded on a memorandum etc.
   (Device ID is "the hexadecimal number of 12 figures")



– Bottom view –

CHECKING METHOD OF NETWORK CONNECTION (CMT-X7CD/X7CDB only)

It is necessary to check the network connection, when replacing the WiFi module (Ref. No. WIFI1) and WiFi antenna 2.4 GHz SVX (Ref. No. ANT1). Check the connection of wireless and wired LAN, according to the following method.

1. Checking Method of Wireless LAN Connection

Necessary Equipment:

- Access point supporting WPS

Procedure:

1. Check that network LAN cable is not connected to the unit.
2. Press the [I/⏻] button to turn the power on.
3. Touch the [FUNCTION] button to select the "NETWORK" function.
4. Press the [MENU] button on the remote commander to the display the setting menu on the liquid crystal display.
5. Press the [🡅]/[🡇] buttons on the remote commander to select the "NETWORK".
6. Press the [⊕] button on the remote commander.
   ("WPS" lights up on the liquid crystal display)
7. Press the [⊕] button on the remote commander.
   ("OK" flashes on the liquid crystal display)
8. Press the [⊕] button on the remote commander.
   ("WPS" flashes on the liquid crystal display)
9. Press the [WPS] button on the access point.
10. When wireless LAN connection is started, "CONNECT" flashes on the liquid crystal display.
11. When wireless LAN connection is completed, "COMPLETE" appears for a moment on the liquid crystal display, then "📶" appears on the liquid crystal display.
12. Press the [I/⏻] button to turn the power off.

Note: Refer to the instruction manual about details of the setting method.

2. Checking method of wired LAN connection

Necessary Equipment:

- Router
- Network LAN cable

Procedure:

1. Connect the unit to the router with the network LAN cable.
2. Press the [I/⏻] button to turn the power on.
3. Touch the [FUNCTION] button to select the "NETWORK" function.
4. Check that "📶" appears on the liquid crystal display.
5. Press the [I/⏻] button to turn the power off.

Note: Refer to the instruction manual about details of the setting method.

RELEASING THE DISC SLOT LOCK

The disc slot lock function for the antitheft of sample disc in the shop is equipped.
It can release the lock function in the following procedure.

Releasing Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Touch the [FUNCTION] button to select the "CD" function.
3. Touch and press two buttons of the [VOL –] and [I/⏻] simultaneously for five seconds.
4. The message "UNLOCKED" is displayed on the liquid crystal display and the disc slot is unlocked.

Note: When "LOCKED" is displayed, the disc slot lock is not released by turning power on/off with the [I/⏻] button.

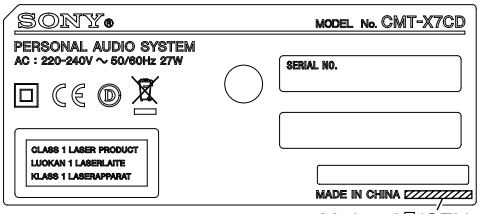
MODEL IDENTIFICATION

Distinguish by Part No. of model number label stuck on the bottom side of a main unit.

Note: The printed contents of following figure model number label may be different from the model number label of a main unit.

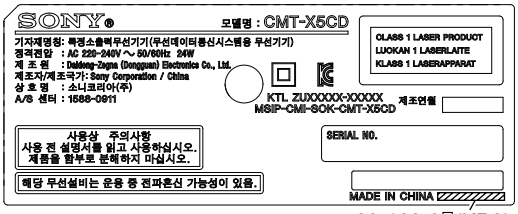
MODEL NUMBER LABEL

CMT-X7CD: AEP model



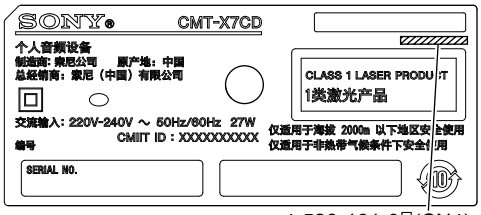
4-528-177-0□(CEL)

CMT-X5CD: Korean model



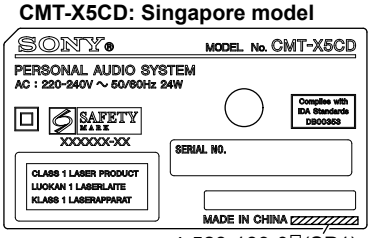
4-528-188-0□(KR2)

CMT-X7CD: Chinese model



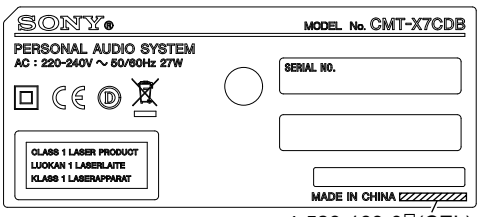
4-528-181-0□(CN4)

CMT-X5CD: Singapore model



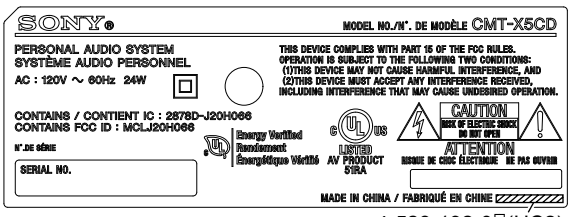
4-528-189-0□(SP1)

CMT-X7CDB: AEP and UK models



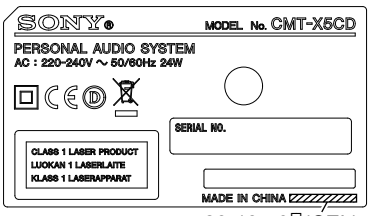
4-528-183-0□(CEL)

CMT-X5CD: US and Canadian models



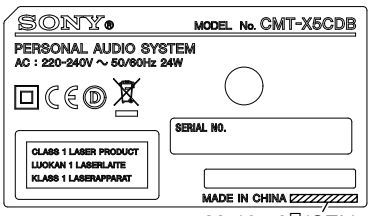
4-528-192-0□(UC2)

CMT-X5CD: AEP model



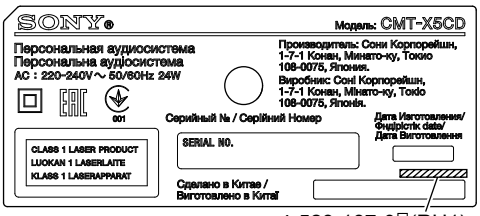
4-528-185-0□(CEL)

CMT-X5CDB: AEP and UK models



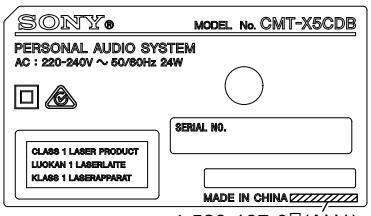
4-528-195-0□(CEL)

CMT-X5CD: Russin model

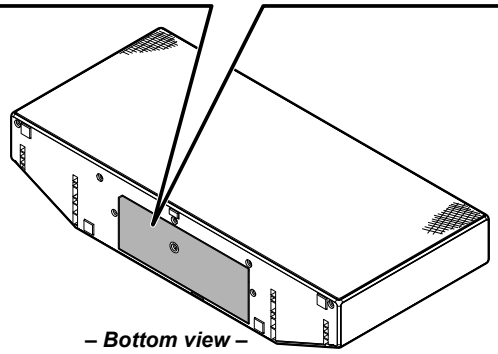


4-528-187-0□(RU1)

CMT-X5CDB: Australian model



4-528-197-0□(AU1)



– Bottom view –

• Please cut out along the dotted line and use it.

Note of the MAC address change:
The MAC address of this unit was changed along with this repair. Please set it again if you are using the MAC address filtering function of access point device of connection destination.
Please refer to the Operating Instructions “Preparing: setting up for a network” for the confirm method of MAC address.

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The MAC address of this unit was changed along with this repair. Please set it again if you are using the MAC address filtering function of access point device of connection destination.
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MEMO

- Please cut out along the dotted line and use it.

Request of the DLNA re-setup:
The DEVICE_ID of this unit was changed along with this repair. When registration of client devices to the DLNA server device is not automatic, it is necessary to register this unit into a server again. Please refer to the Operating Instructions “Listening to music on Windows 8/Windows 7 (Home network)” or SONY Support site for the re-setup method.

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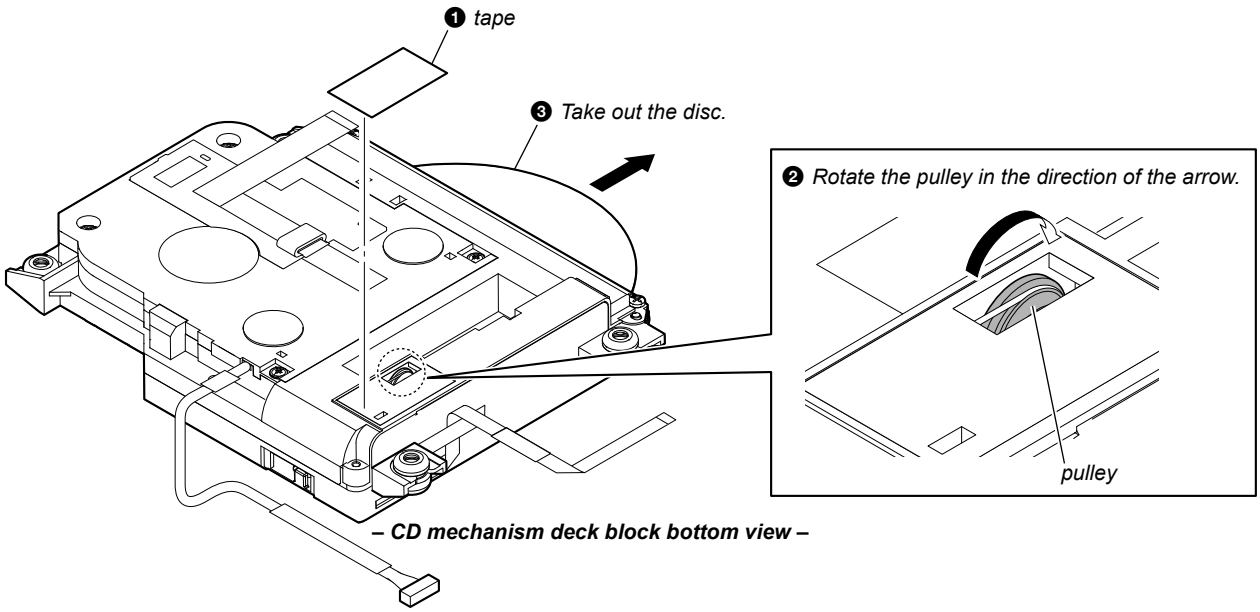
MEMO

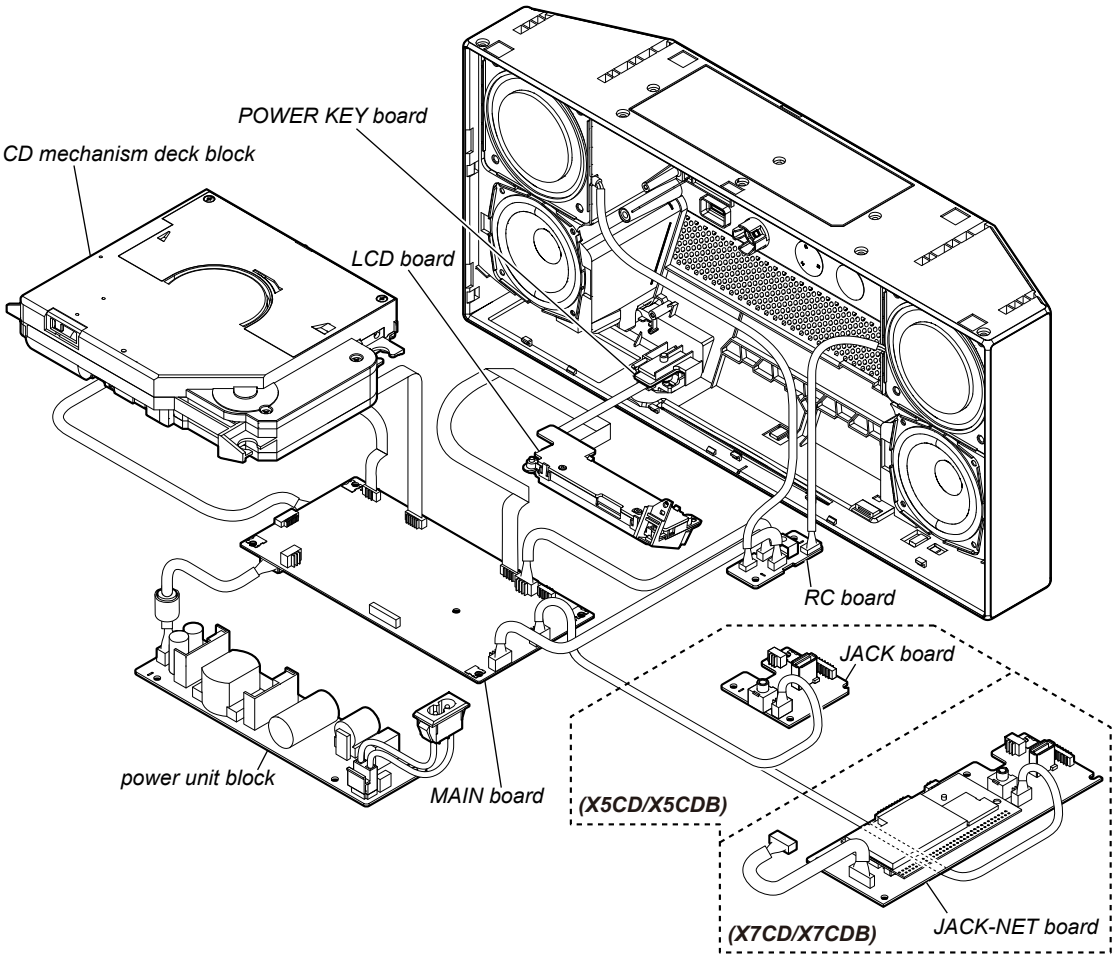
HOW TO EJECT THE DISC WHEN POWER SWICTH TURN OFF

- Refer to "SECTION 2. DISASSEMBLY", remove the CD mechanism deck block from the unit

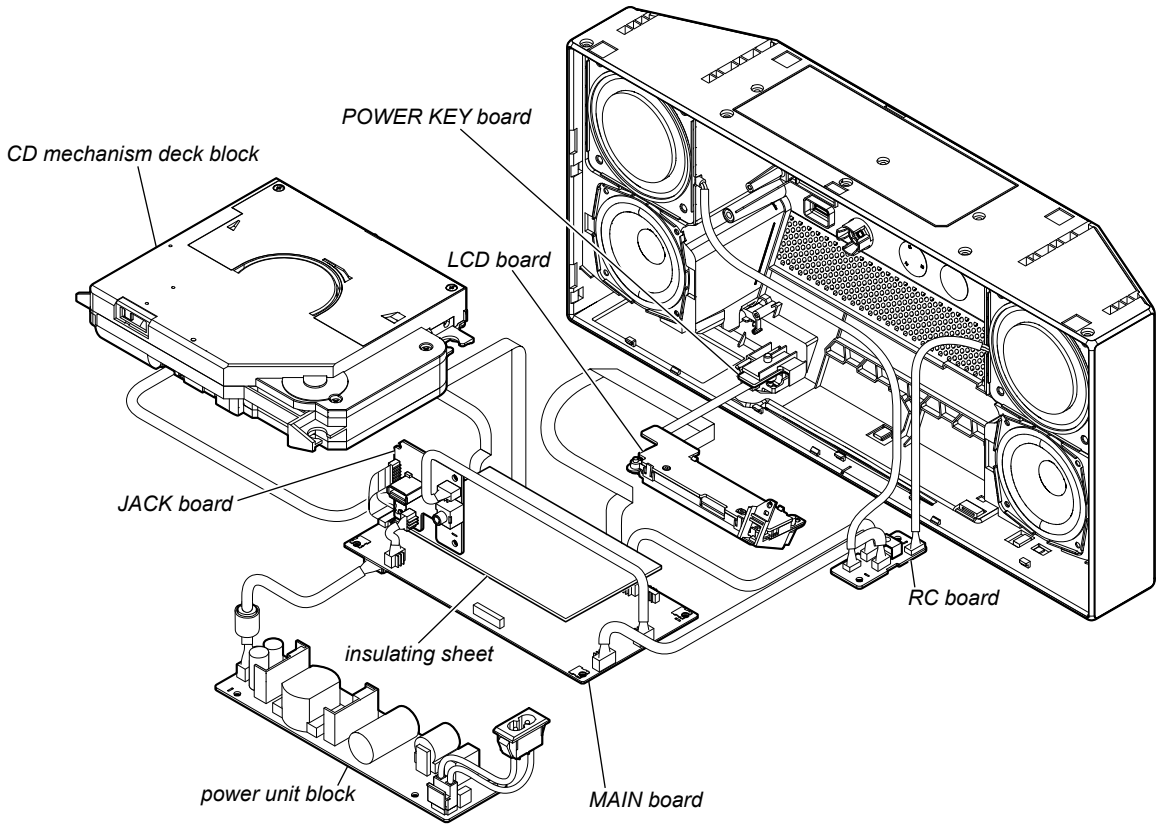


– CD mechanism deck block bottom view –

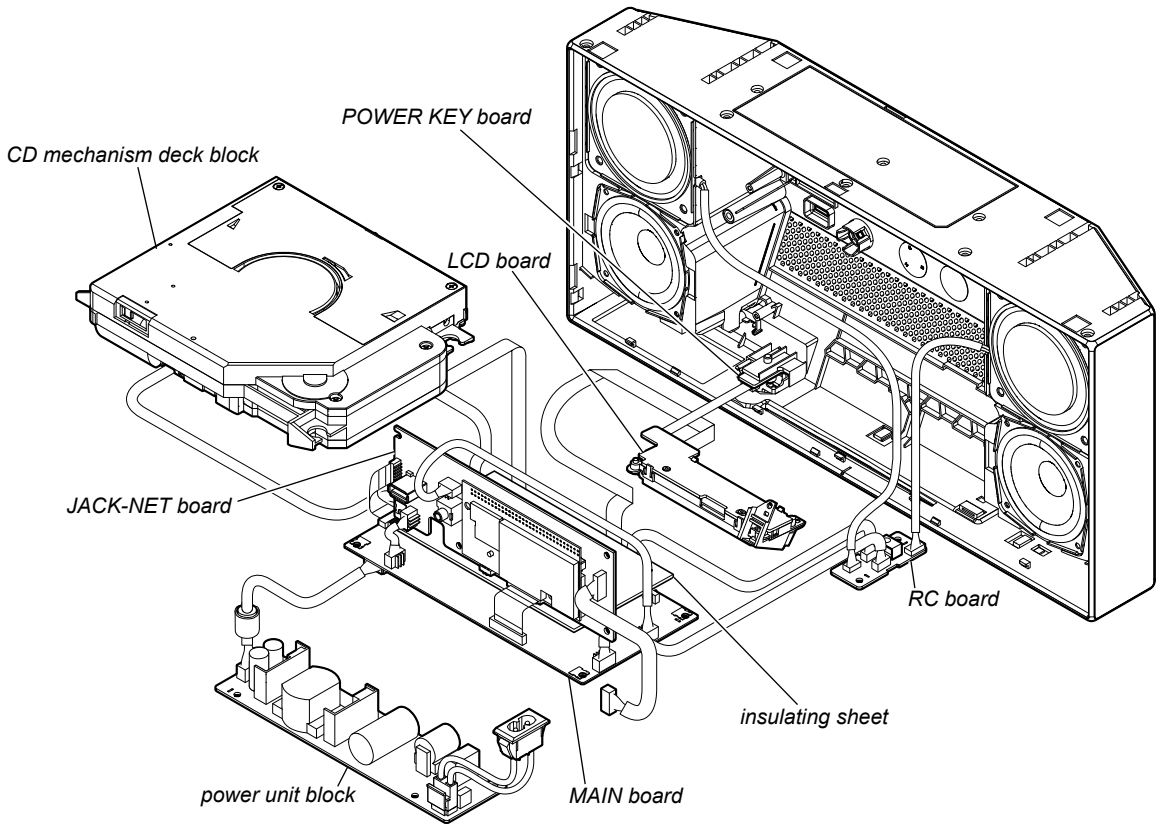
MAIN BOARD (SIDE A), CD MECHANISM DECK BLOCK SERVICE POSITION



JACK BOARD SERVICE POSITION (X5CD/X5CDB)



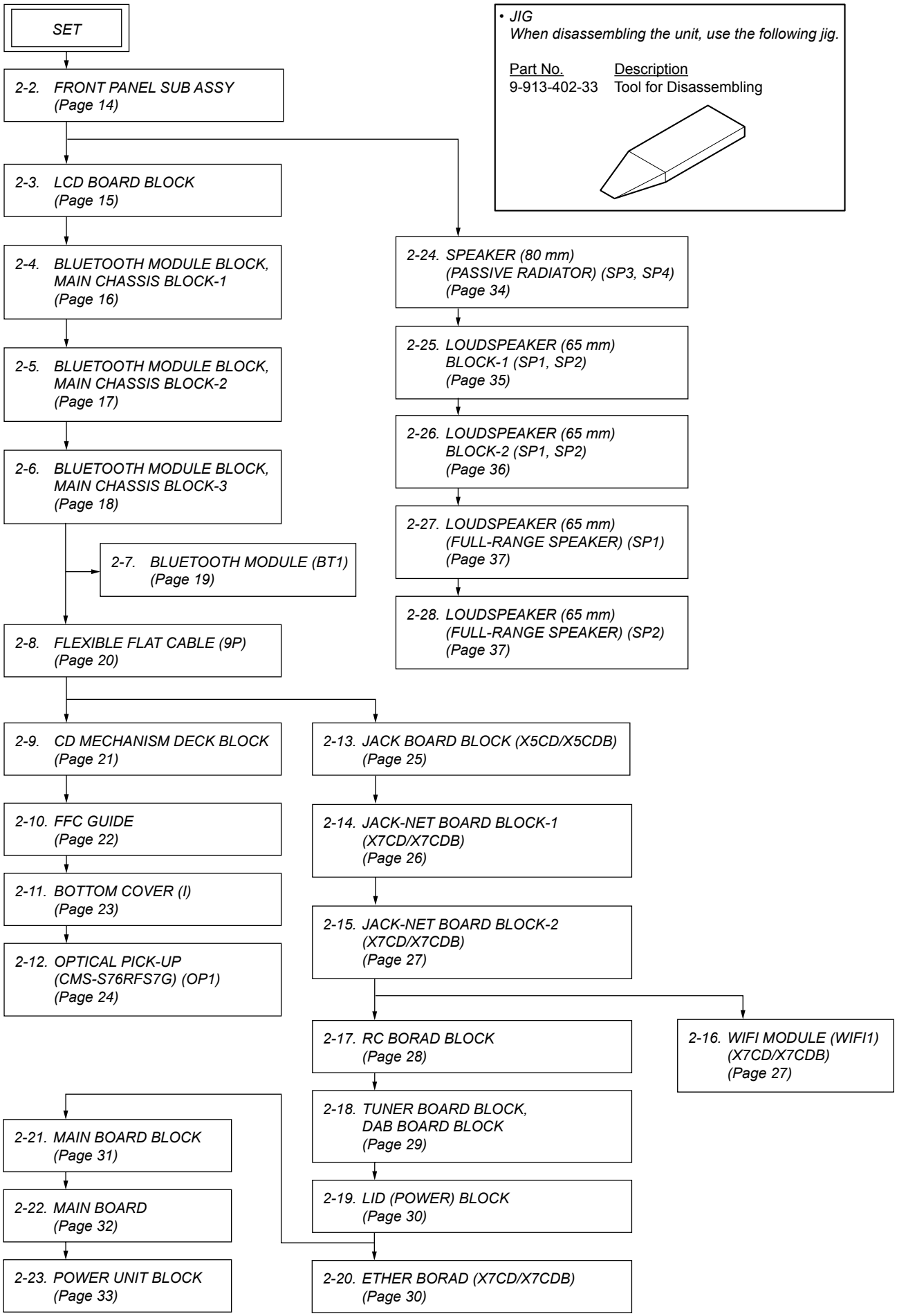
JACK-NET BOARD SERVICE POSITION (X7CD/X7CDB)



SECTION 2
DISASSEMBLY

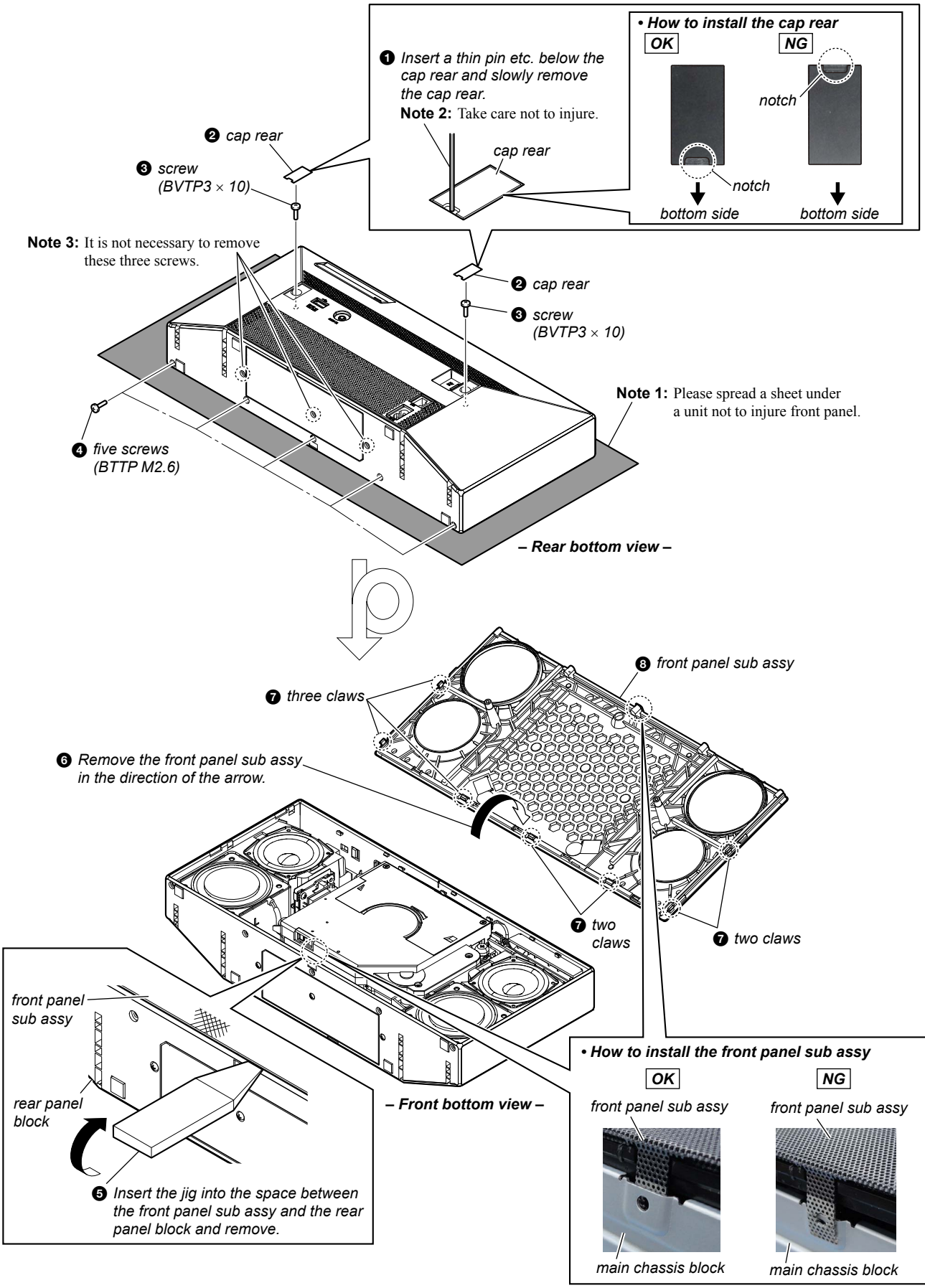
- This set can be disassembled in the order shown below.

2-1. DISASSEMBLY FLOW

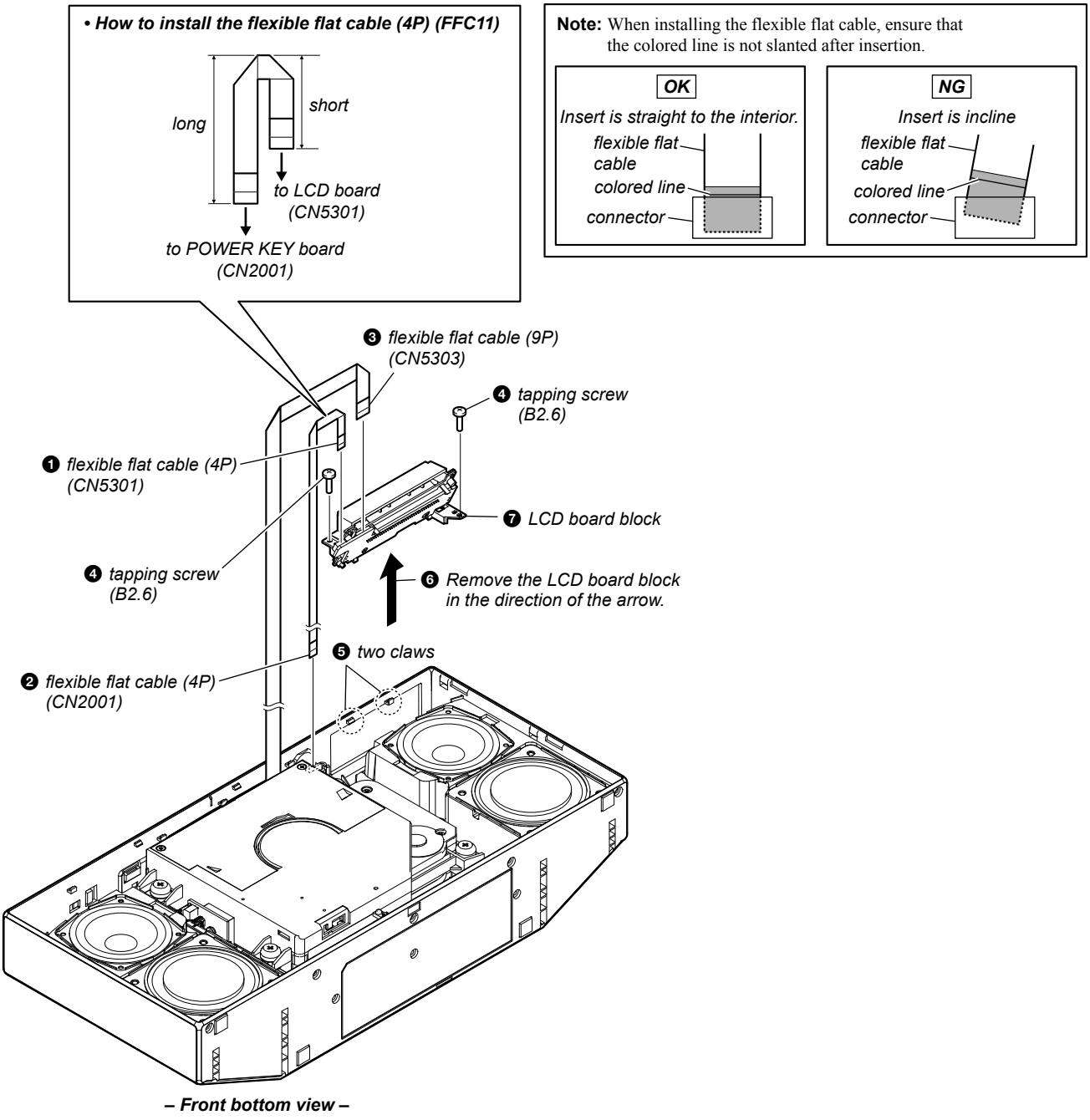


Note: Follow the disassembly procedure in the numerical order given.

2-2. FRONT PANEL SUB ASSY



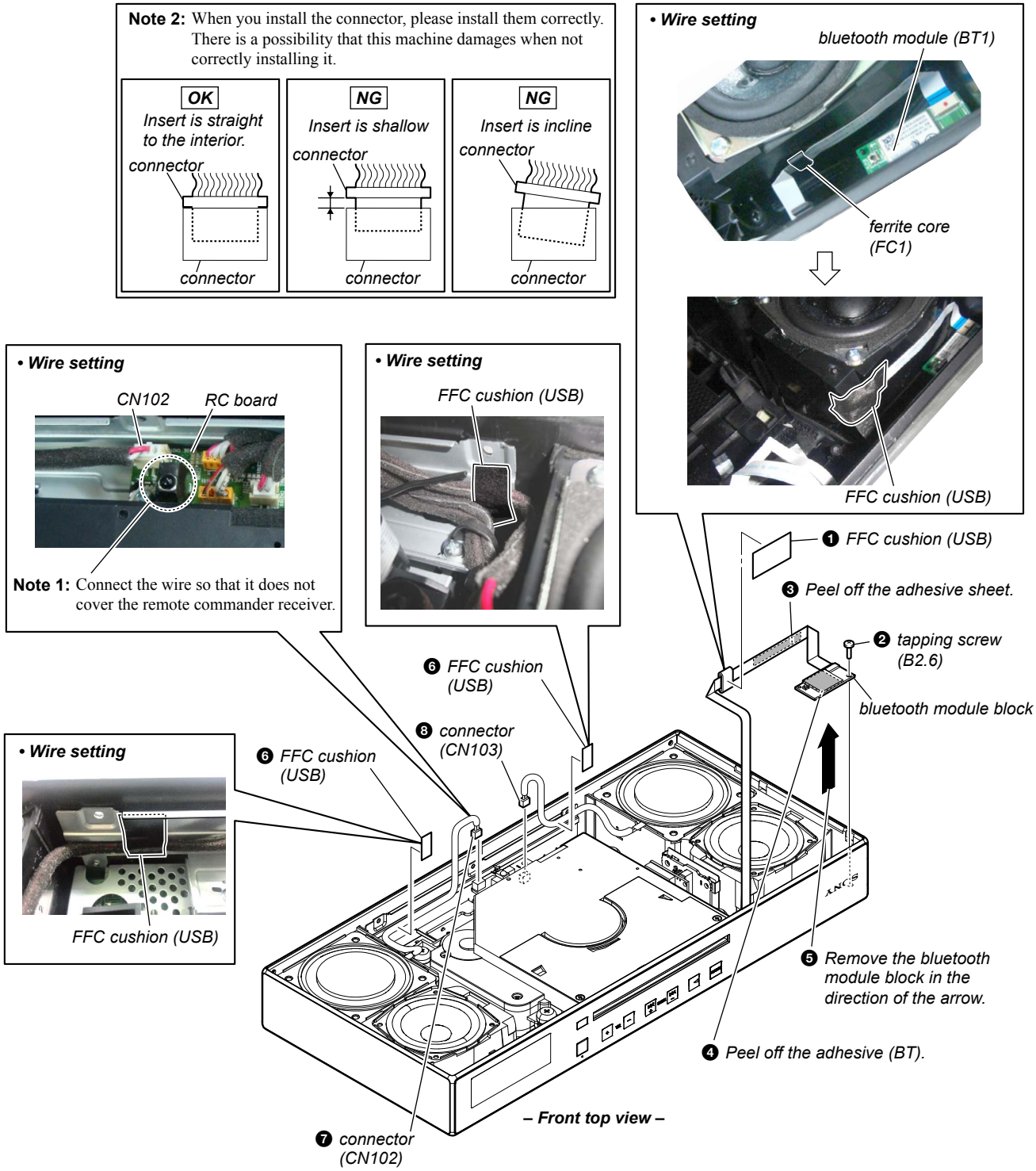
2-3. LCD BOARD BLOCK



– Front bottom view –

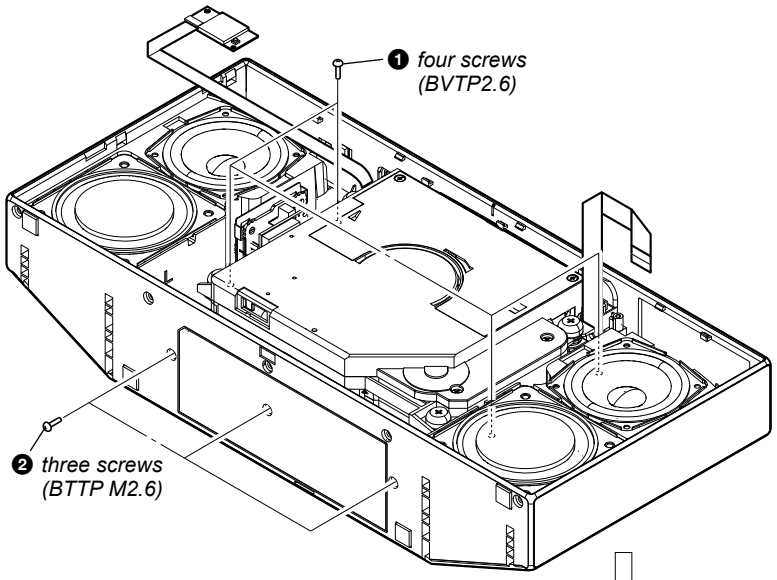
2-4. BLUETOOTH MODULE BLOCK, MAIN CHASSIS BLOCK-1

• Continued on 2-5 (page 17).



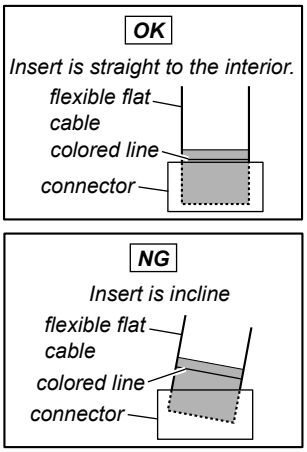
2-5. BLUETOOTH MODULE BLOCK, MAIN CHASSIS BLOCK-2

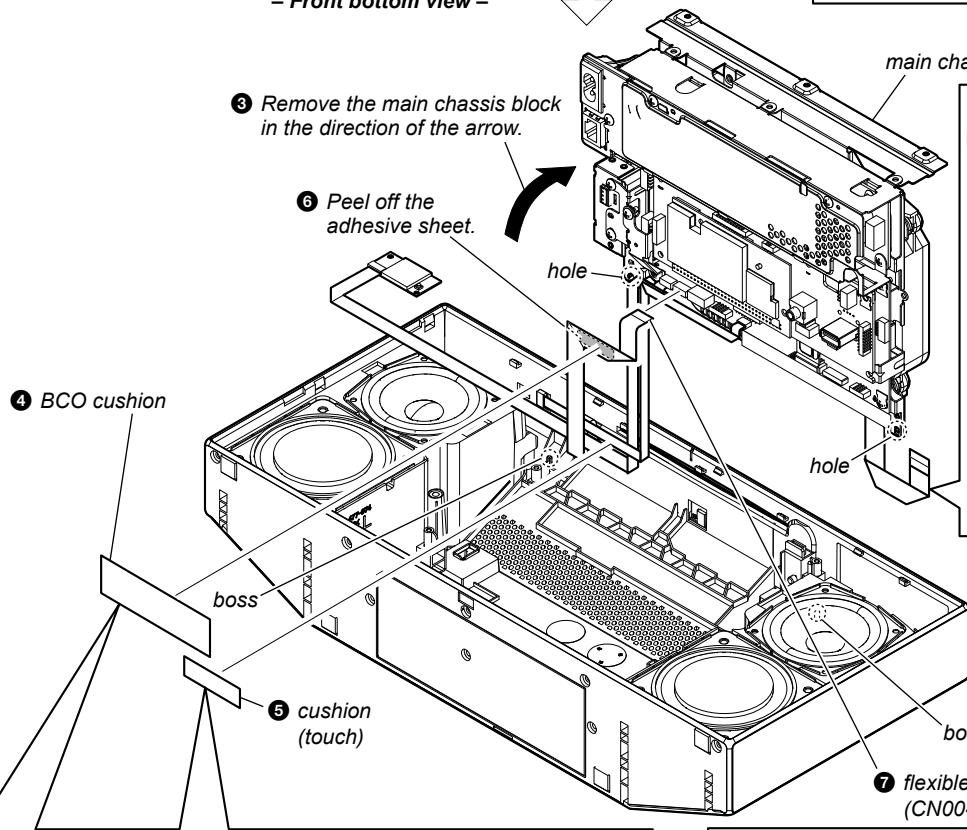
• Continued on 2-6 (page 18).



– Front bottom view –

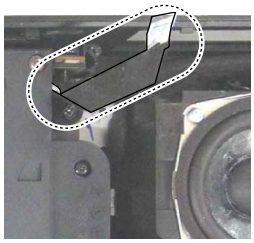
Note 1: When installing the flexible flat cable, ensure that the colored line is not slanted after insertion.



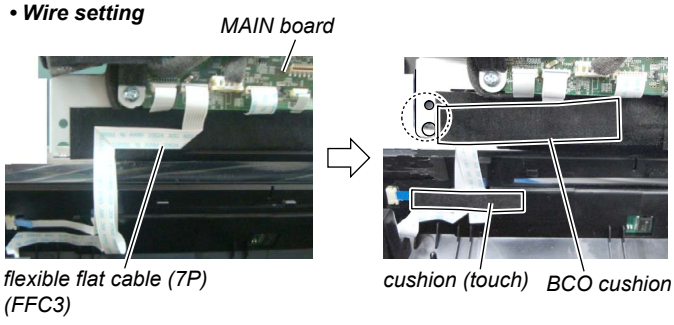


• Wire setting

Note 4: When installing the main chassis block, be careful not to pinch the flexible flat cable between the main chassis block and the rear panel block.



• Wire setting

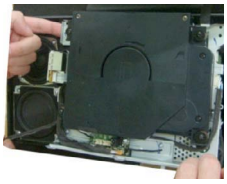


• How to install the main chassis block

Note 2: When installing the main chassis block, align two bosses and two holes.

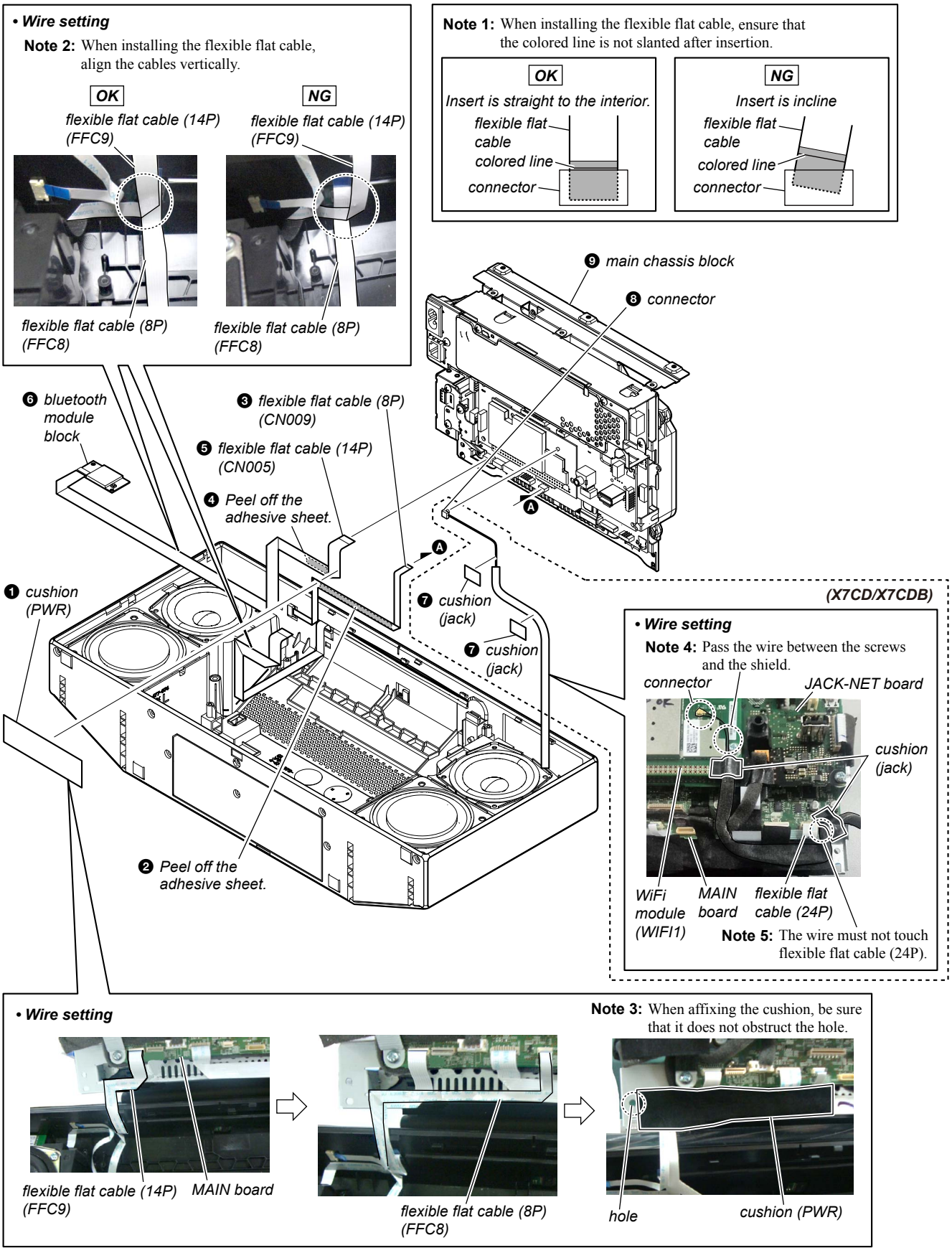
Note 3: When installing or removing the main chassis block, be sure to use both hands. Do not perform either procedure using only one hand.

OK
both hands

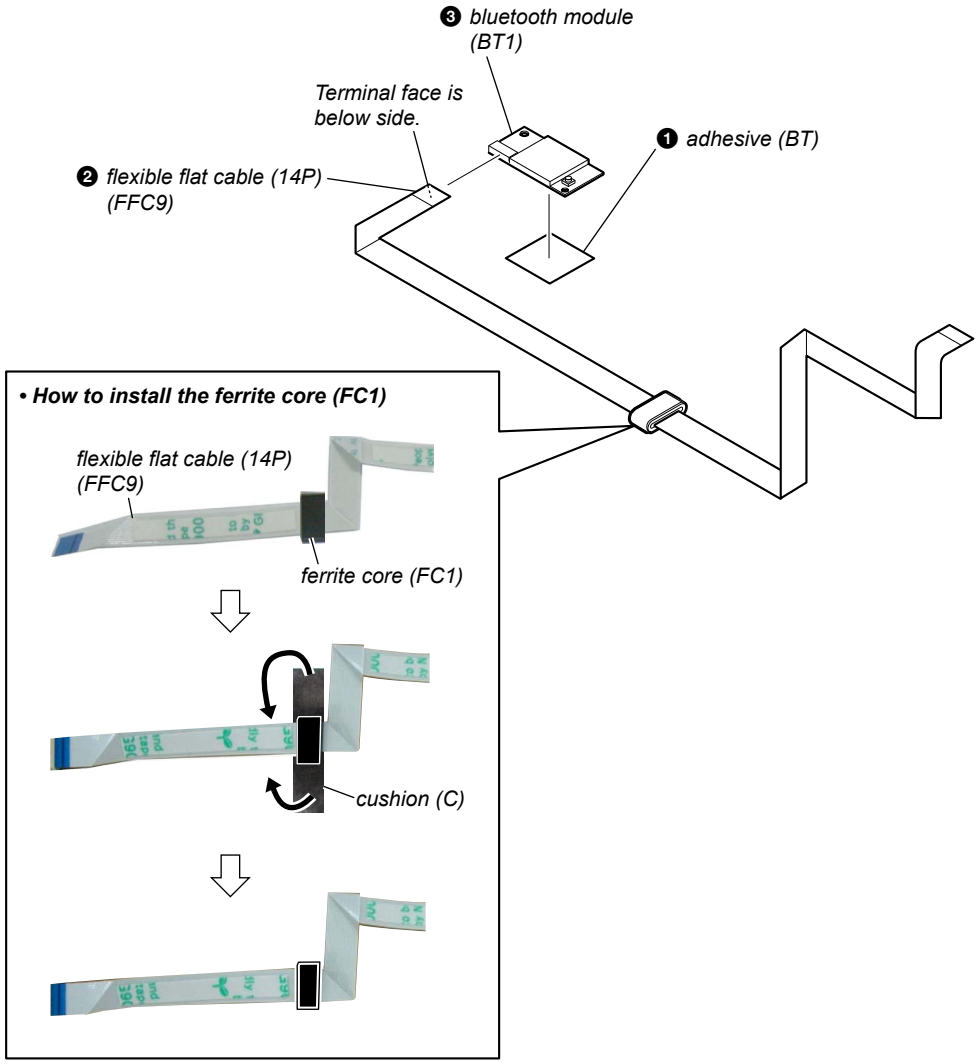


NG
one hand

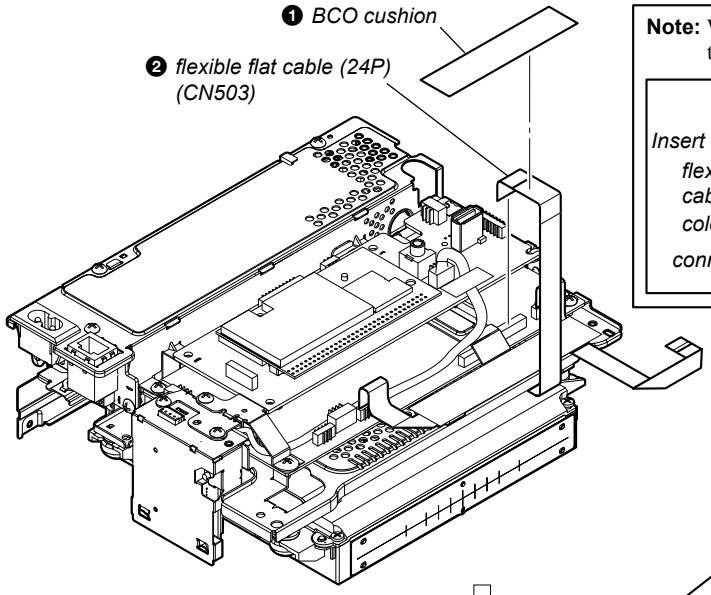
2-6. BLUETOOTH MODULE BLOCK, MAIN CHASSIS BLOCK-3



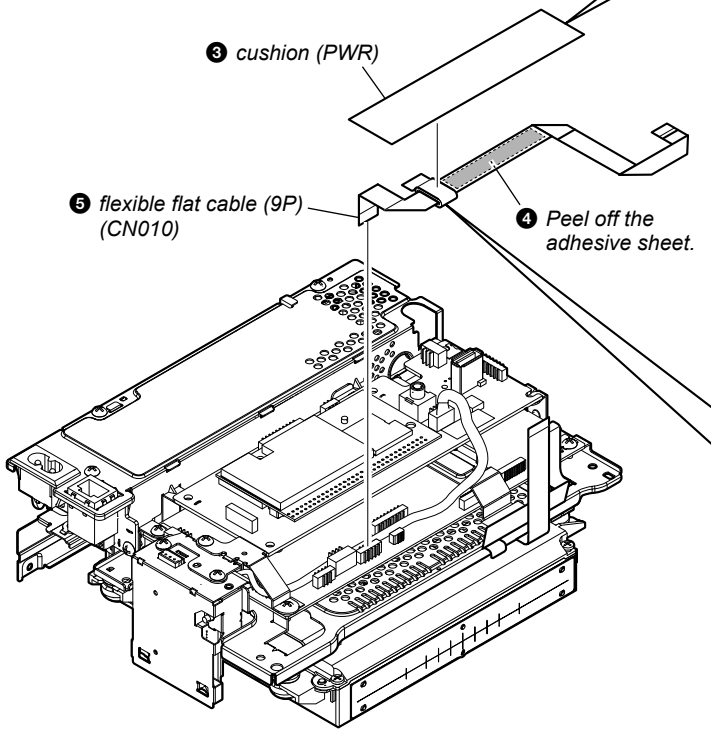
2-7. BLUETOOTH MODULE (BT1)



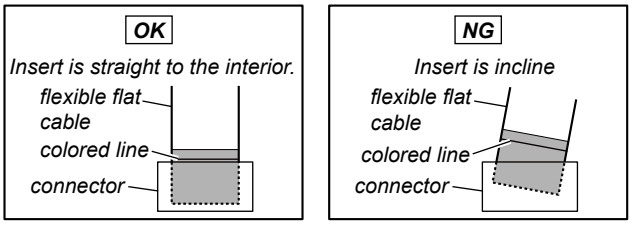
2-8. FLEXIBLE FLAT CABLE (9P)



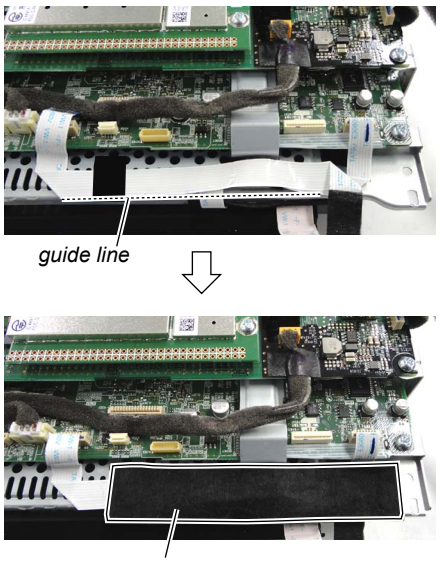
– Main chassis block front bottom view –



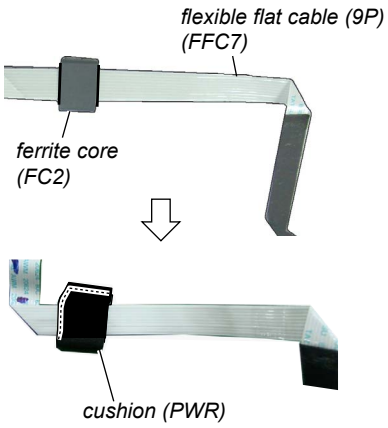
Note: When installing the flexible flat cable, ensure that the colored line is not slanted after insertion.



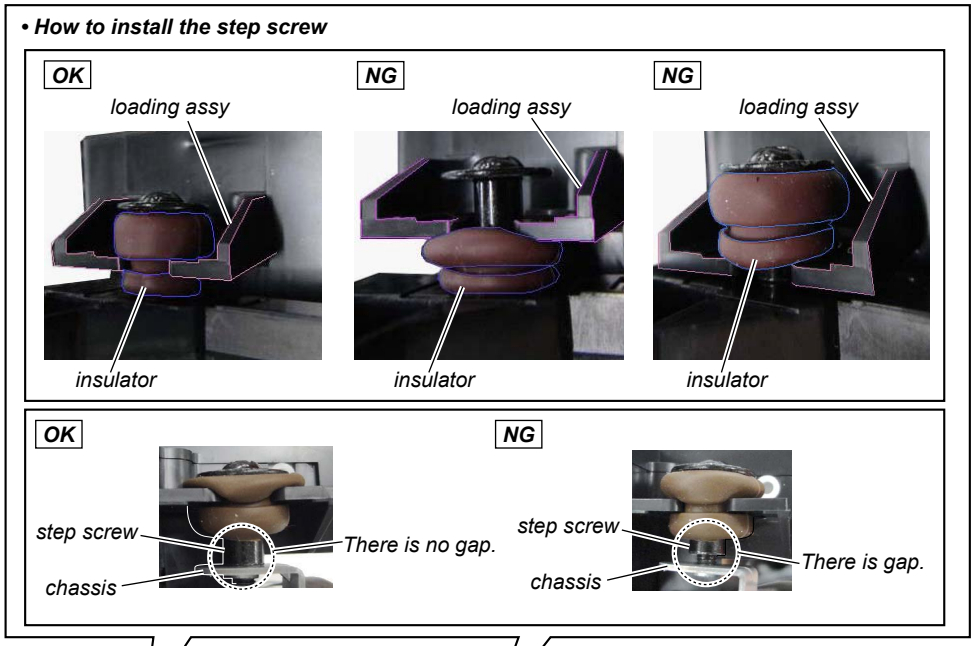
• Wire setting

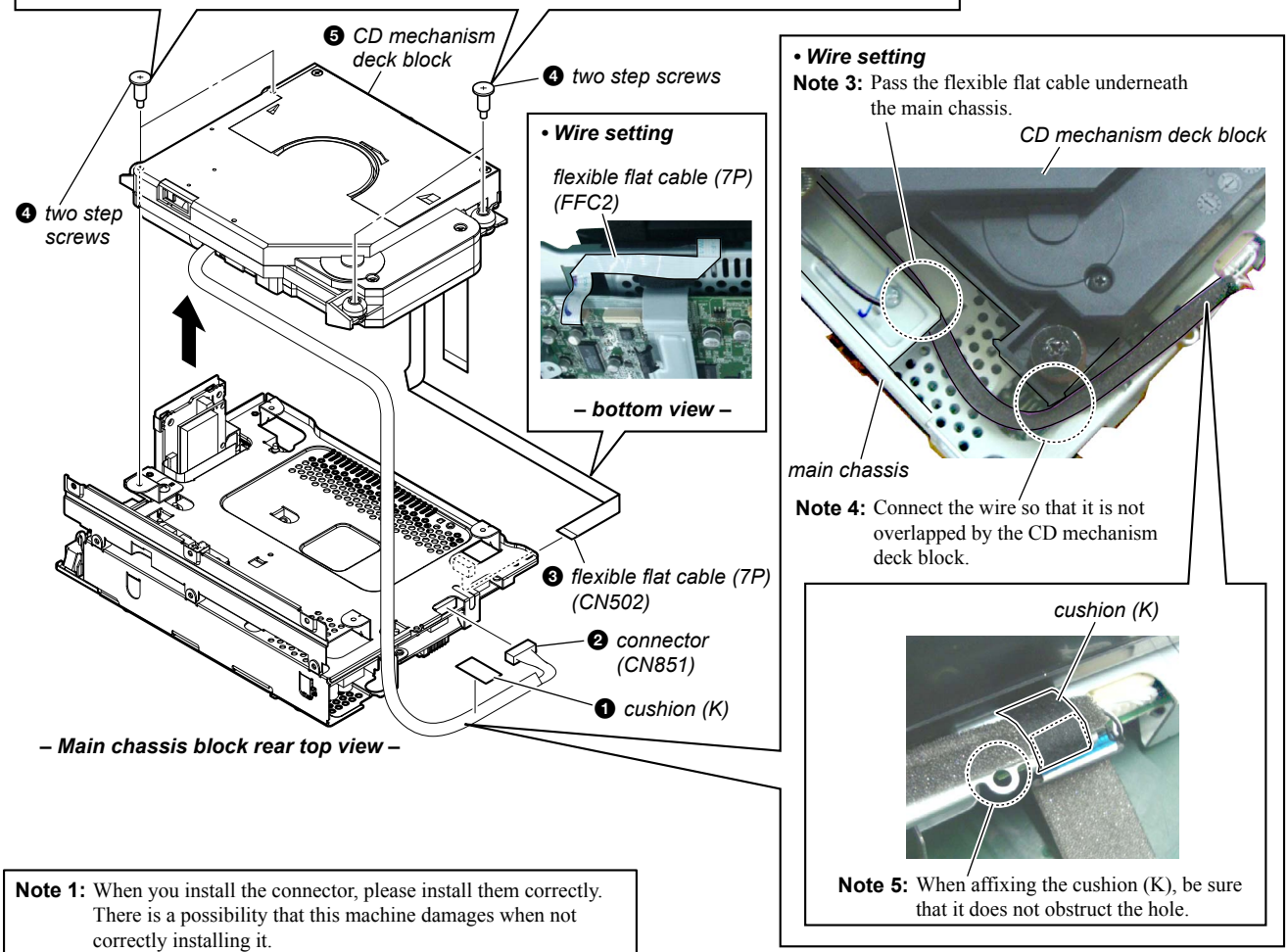


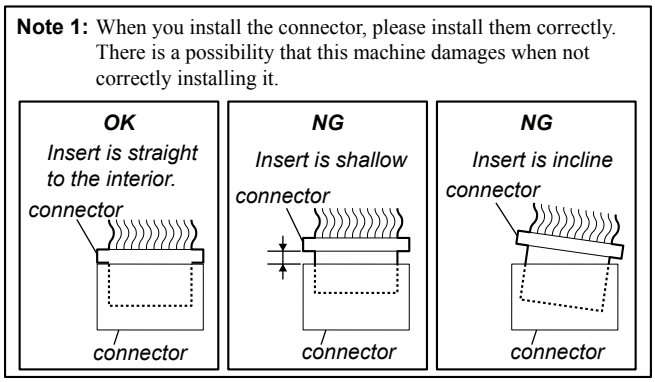
• How to install the ferrite core (FC2)

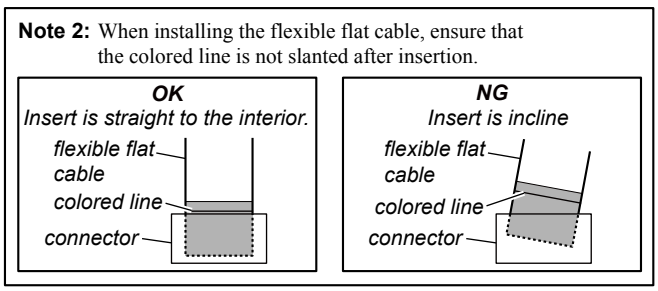


2-9. CD MECHANISM DECK BLOCK

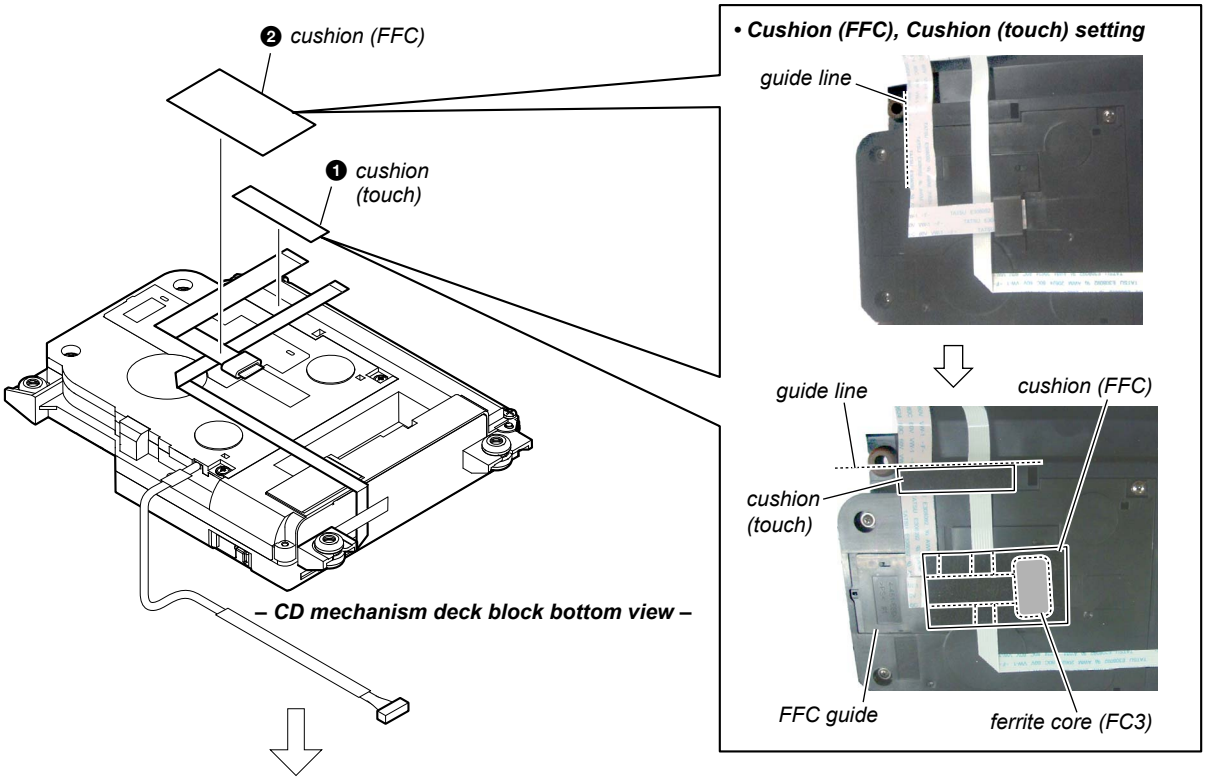




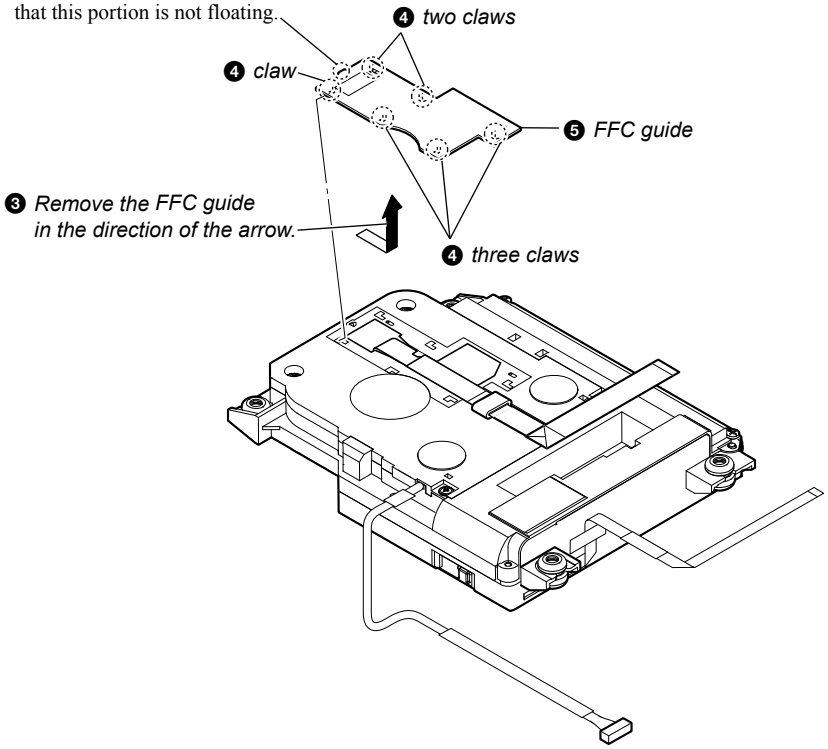




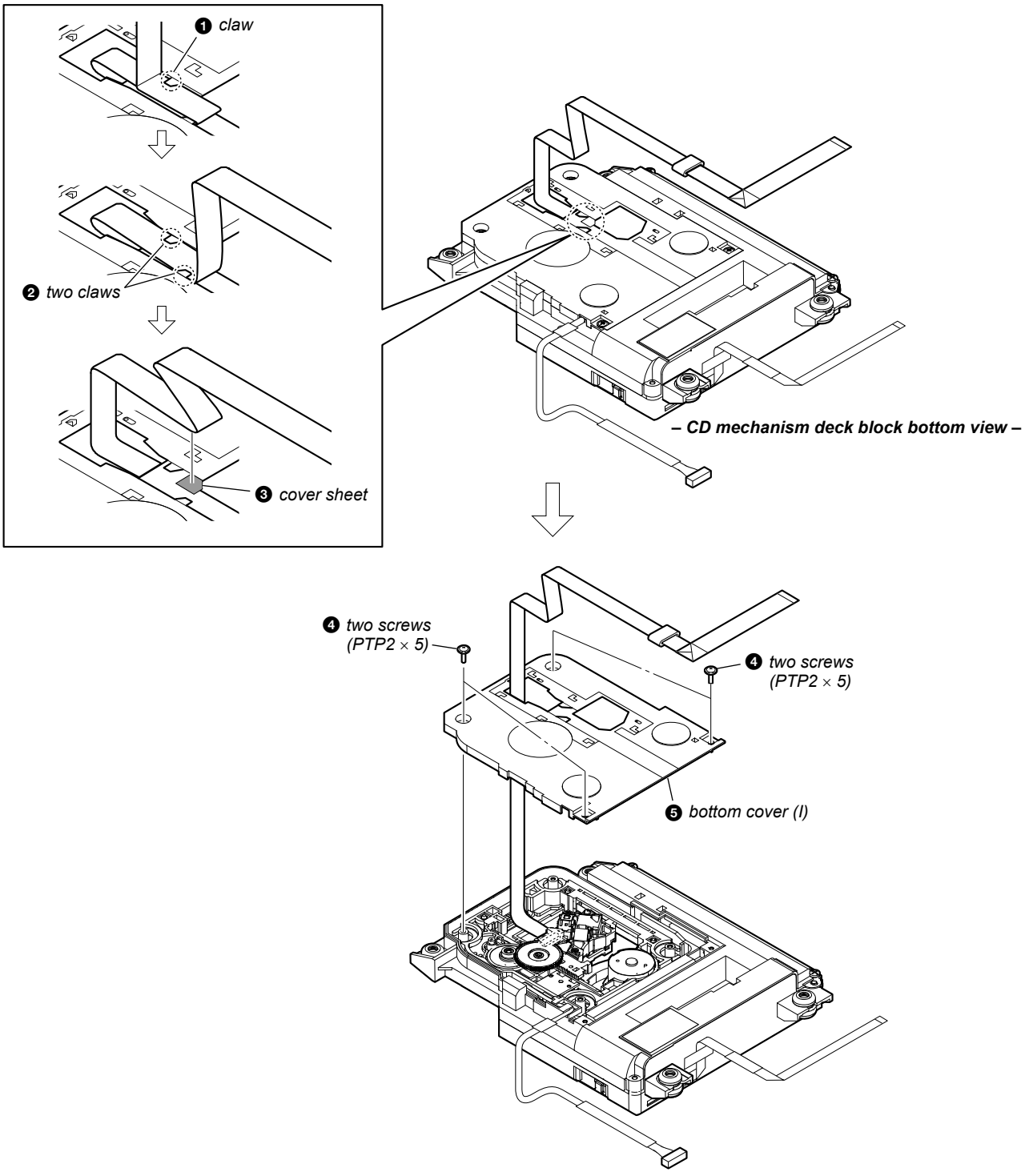
2-10. FFC GUIDE



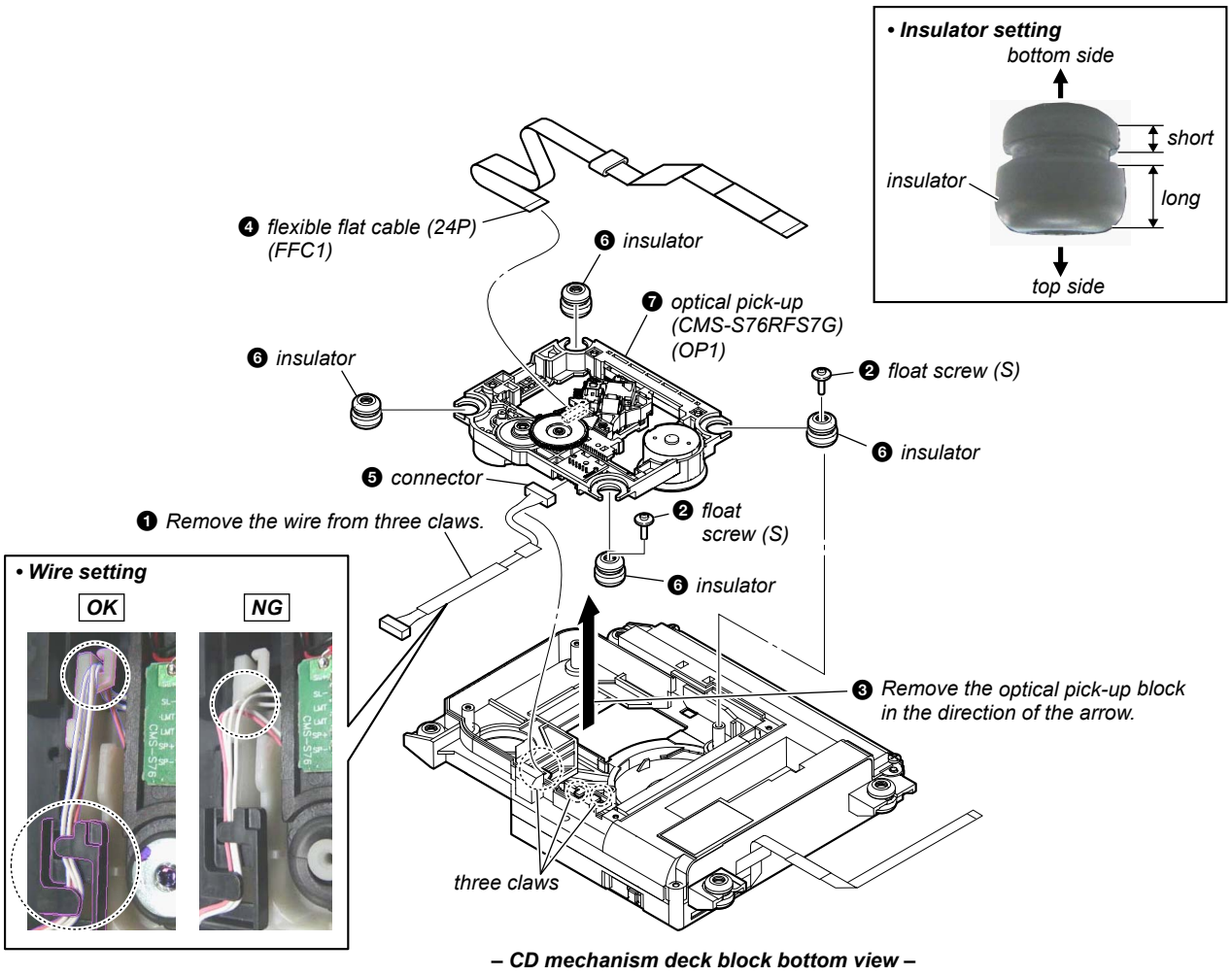
Note: When installing the FFC guide, make sure that this portion is not floating.



2-11. BOTTOM COVER (I)

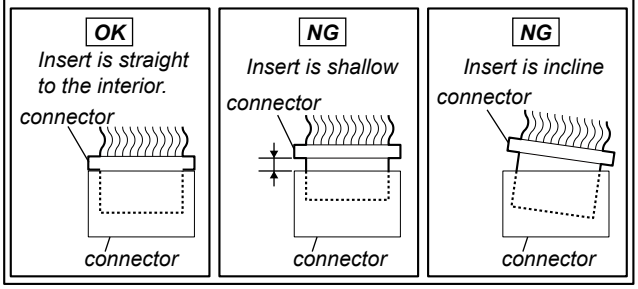


2-12. OPTICAL PICK-UP (CMS-S76RFS7G) (OP1)

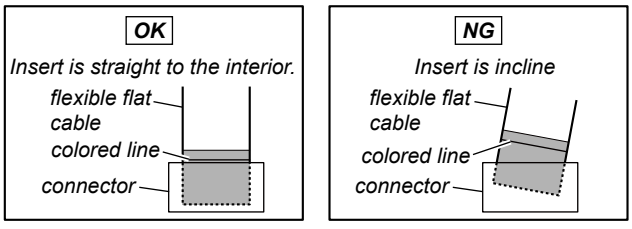


– CD mechanism deck block bottom view –

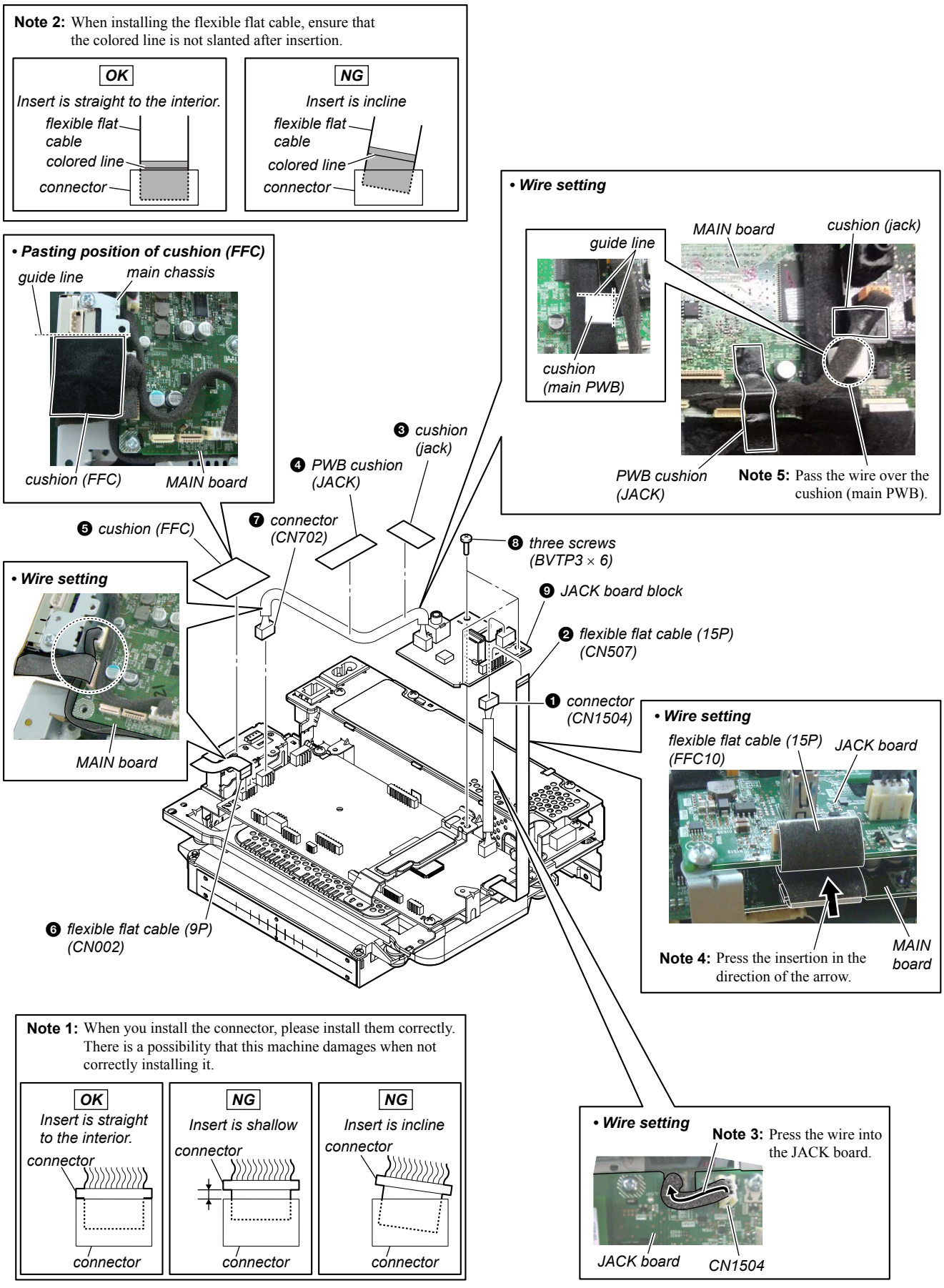
Note 1: When you install the connector, please install them correctly. There is a possibility that this machine damages when not correctly installing it.



Note 2: When installing the flexible flat cable, ensure that the colored line is not slanted after insertion.

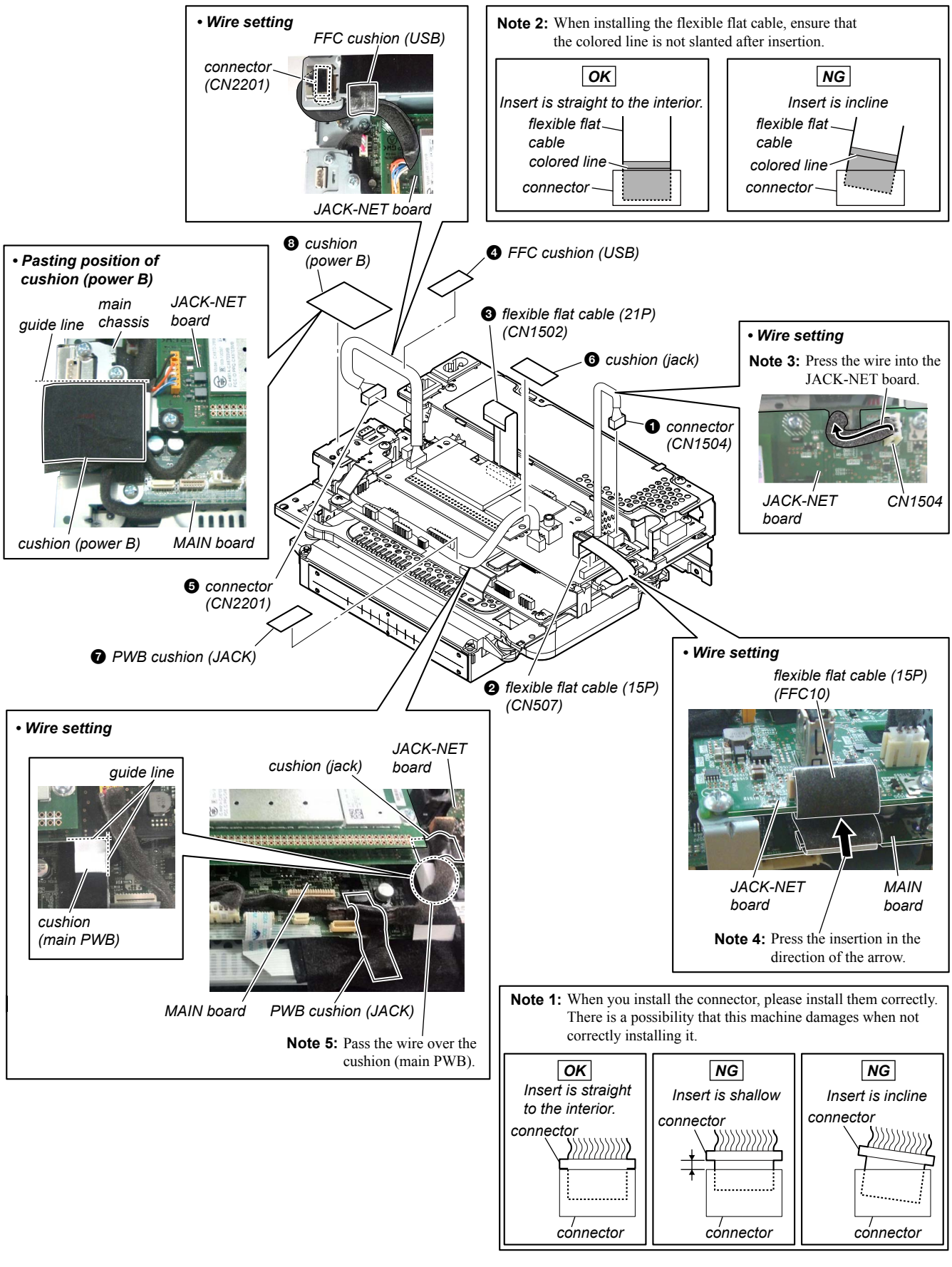


2-13. JACK BOARD BLOCK (X5CD/X5CDB)

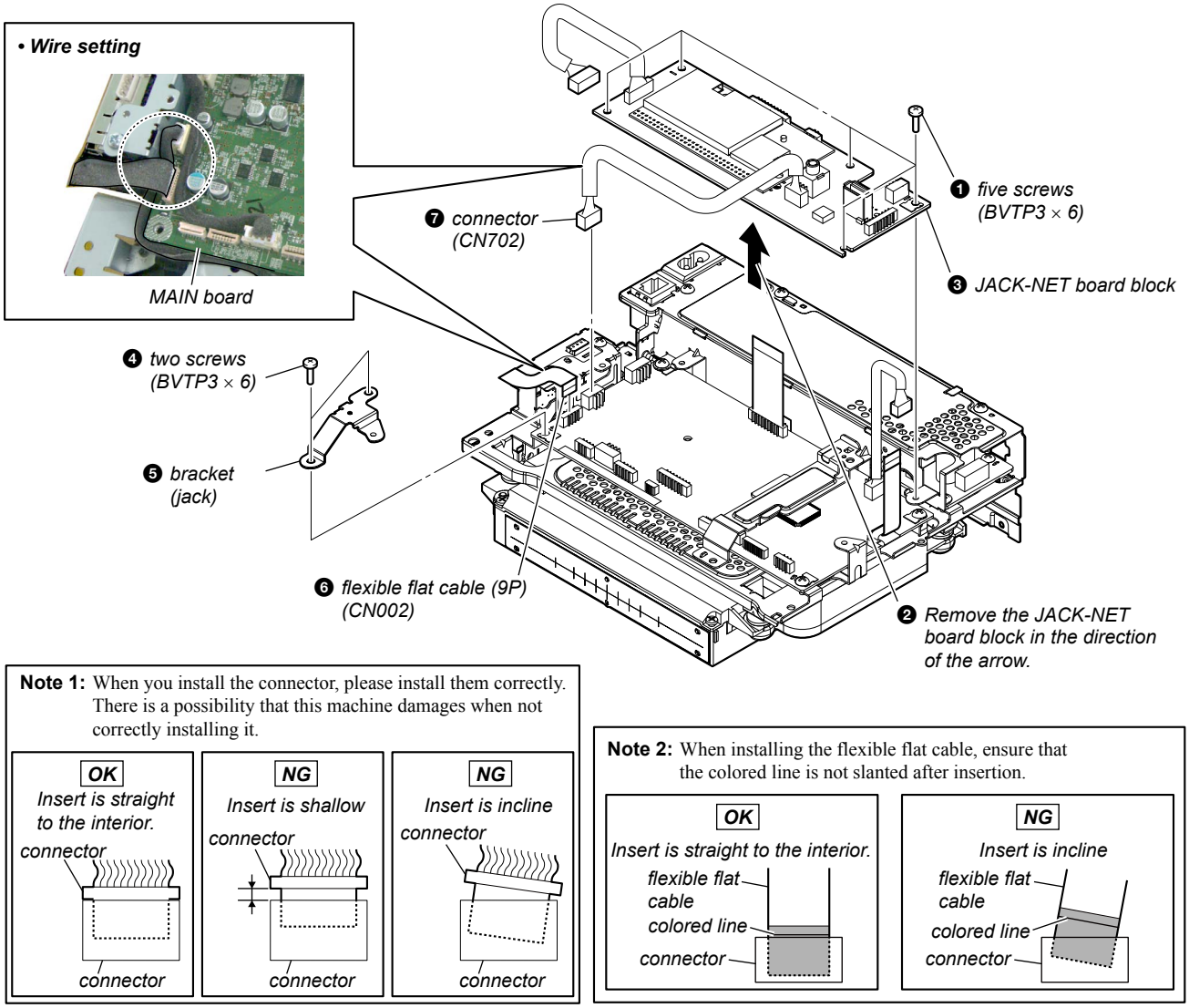


2-14. JACK-NET BOARD BLOCK-1 (X7CD/X7CDB)

• Continued on 2-15 (page 27).



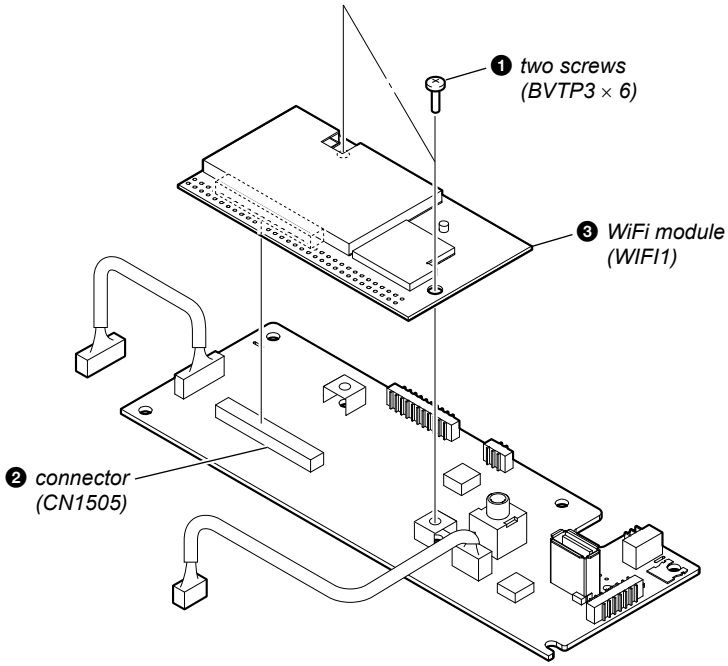
2-15. JACK-NET BOARD BLOCK-2 (X7CD/X7CDB)



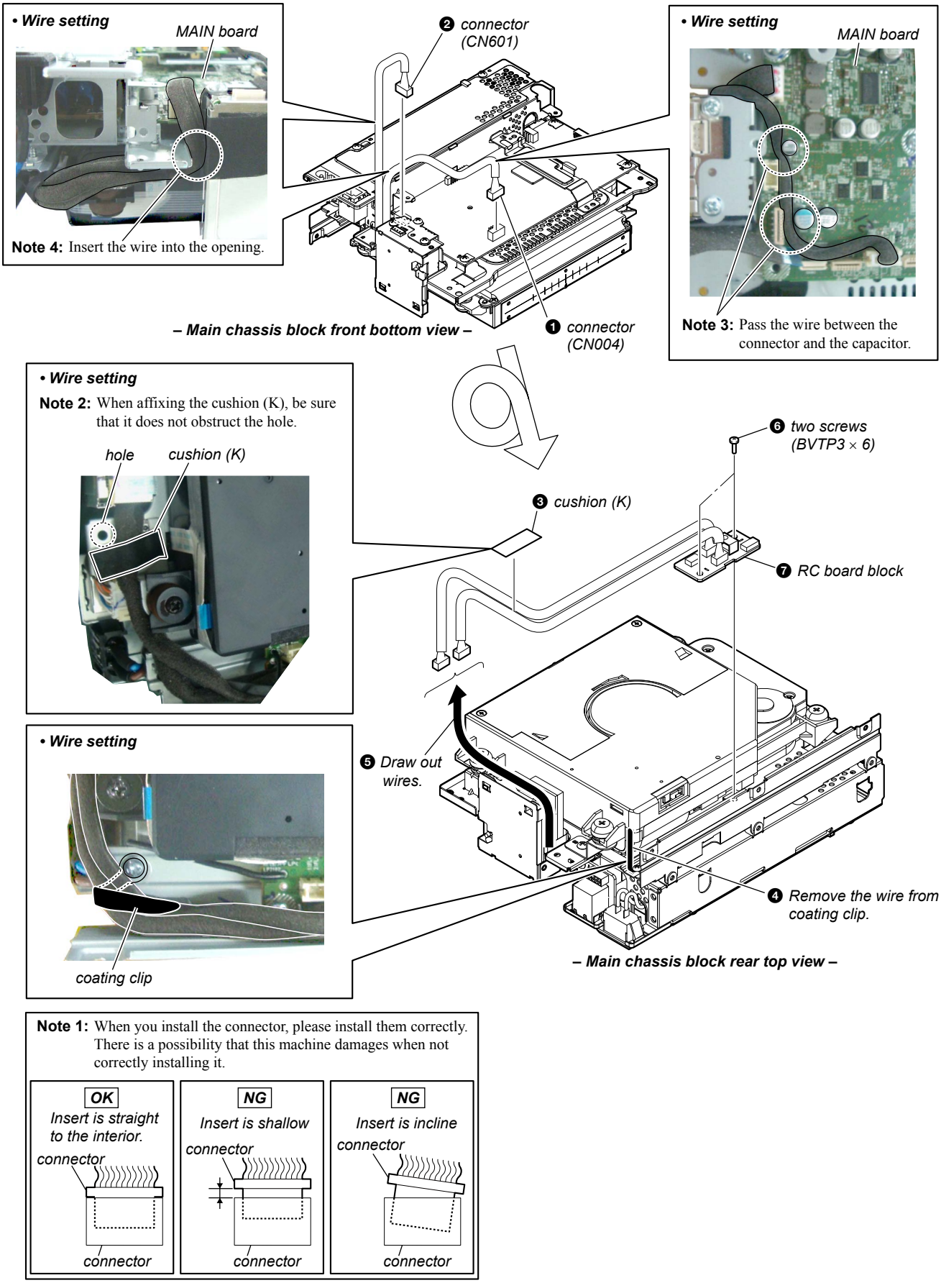
Note 1: When you install the connector, please install them correctly. There is a possibility that this machine damages when not correctly installing it.

Note 2: When installing the flexible flat cable, ensure that the colored line is not slanted after insertion.

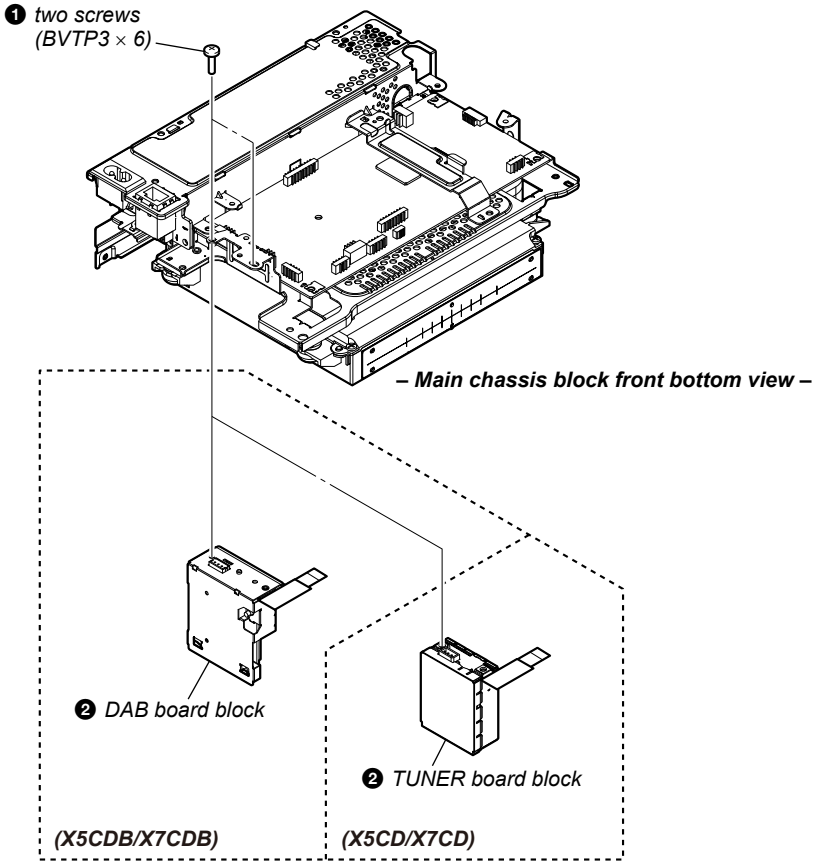
2-16. WIFI MODULE (WIFI1) (X7CD/X7CDB)



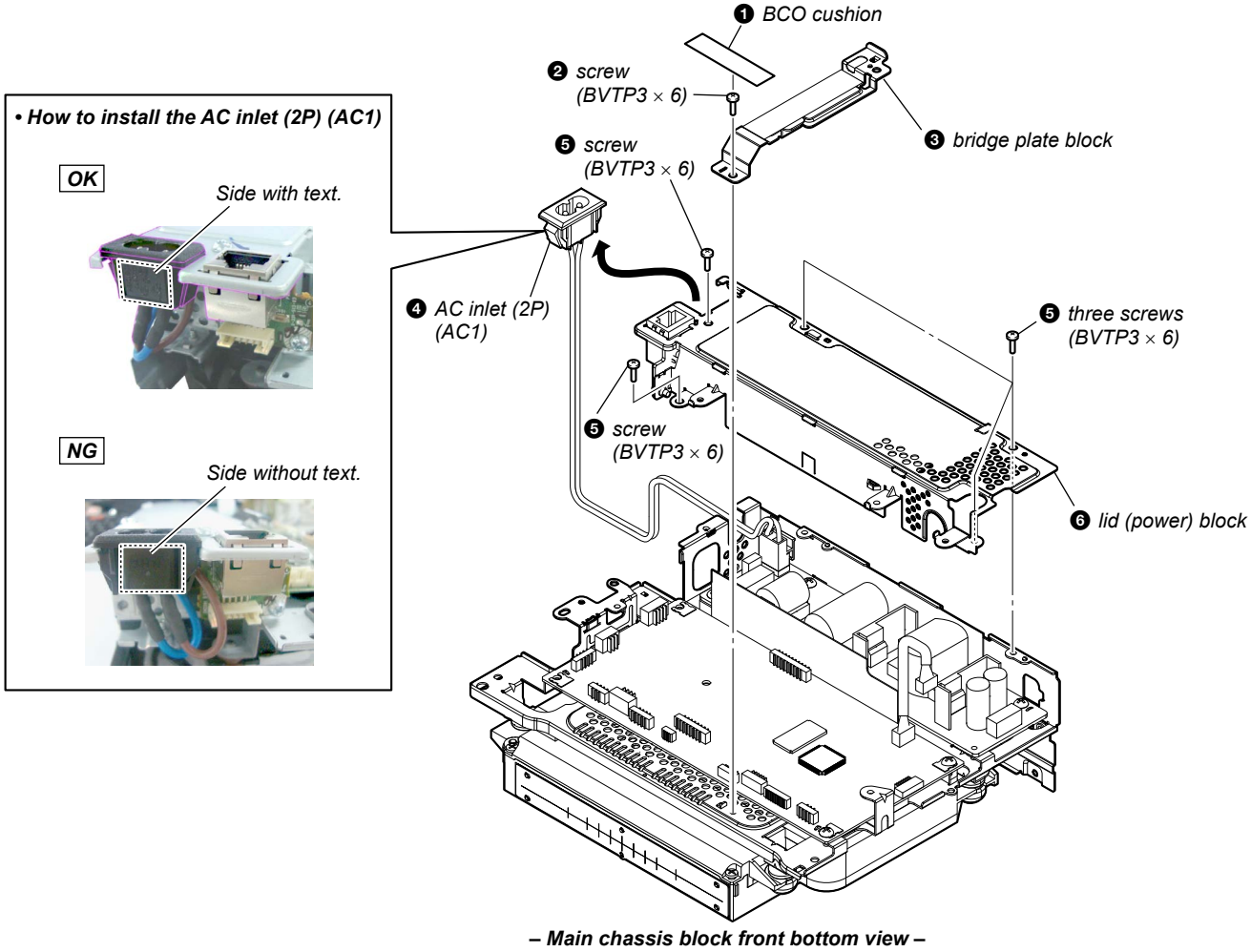
2-17. RC BOARD BLOCK



2-18. TUNER BOARD BLOCK, DAB BOARD BLOCK

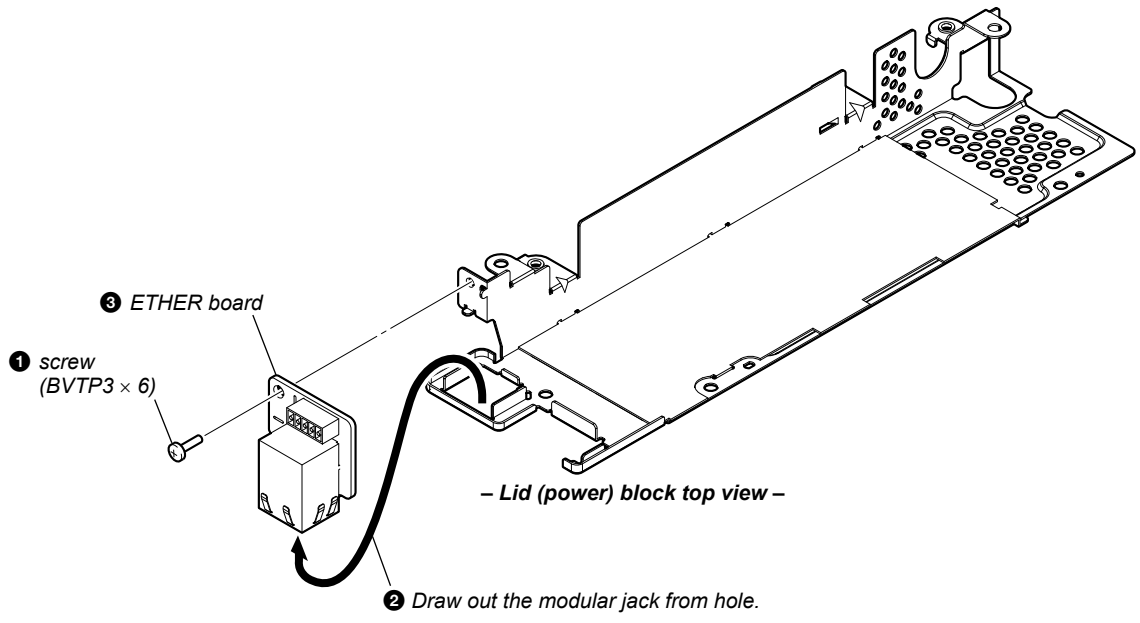


2-19. LID (POWER) BLOCK



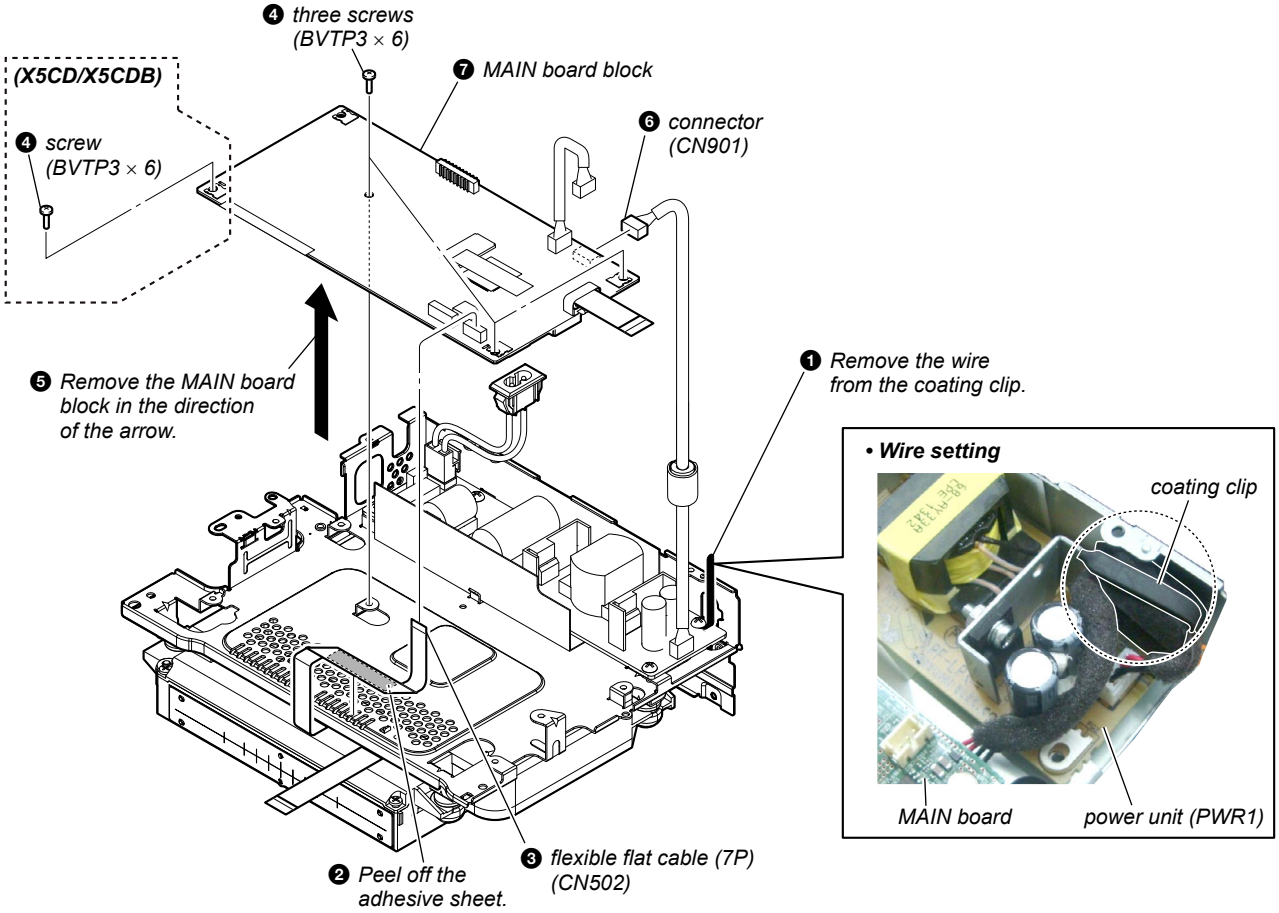
– Main chassis block front bottom view –

2-20. ETHER BOARD (X7CD/X7CDB)

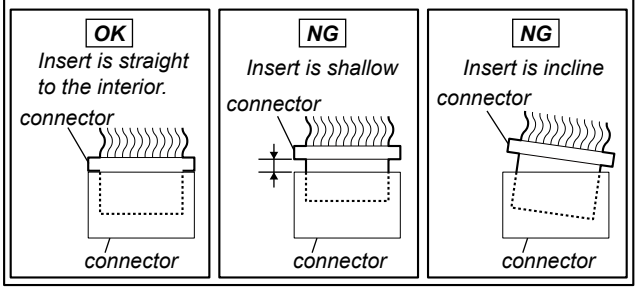


– Lid (power) block top view –

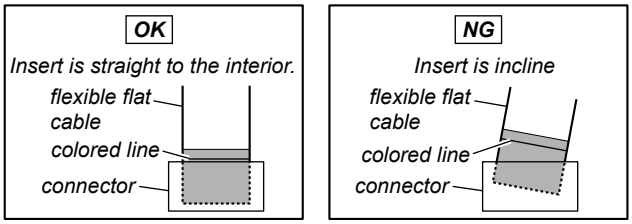
2-21. MAIN BOARD BLOCK



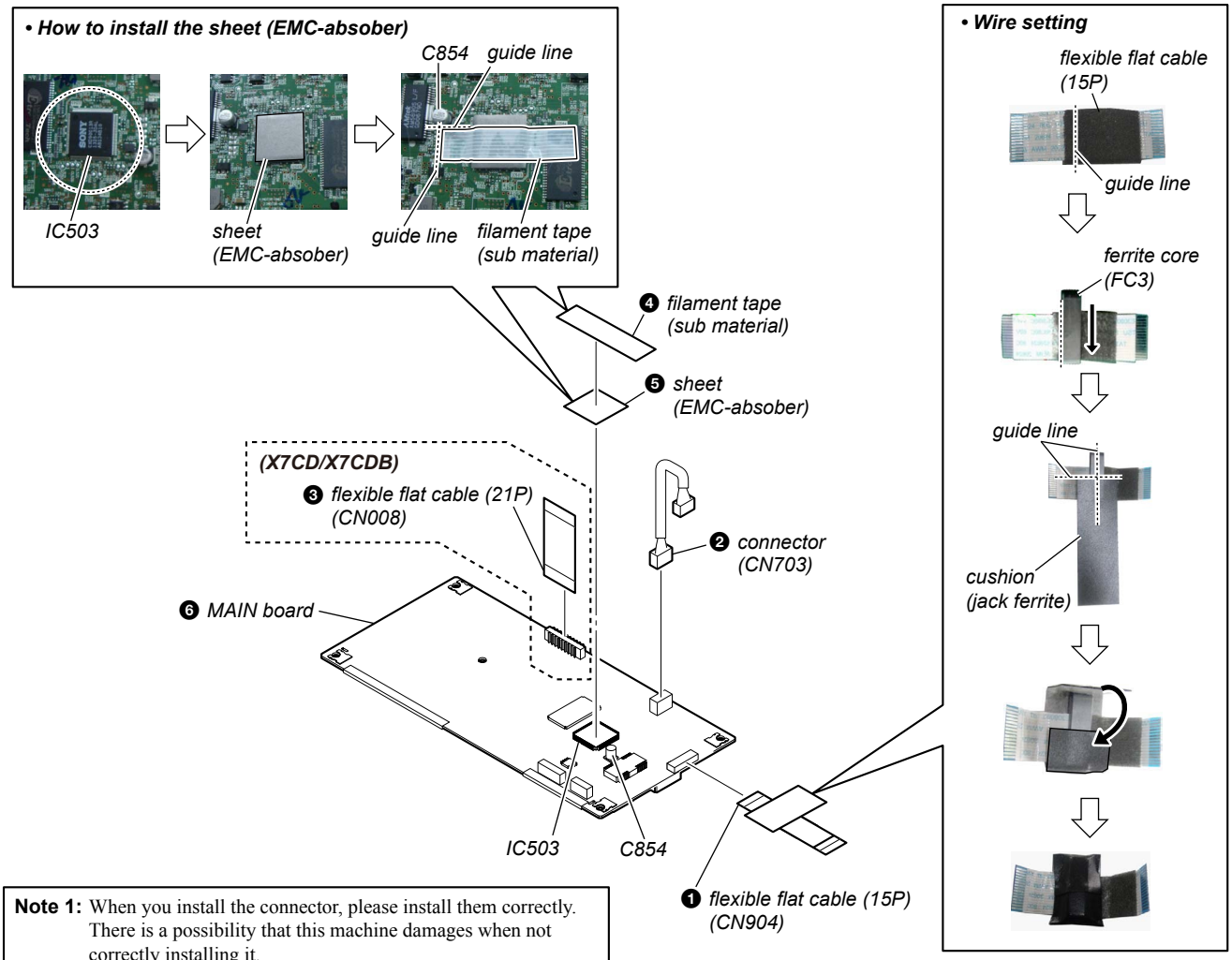
Note 1: When you install the connector, please install them correctly. There is a possibility that this machine damages when not correctly installing it.



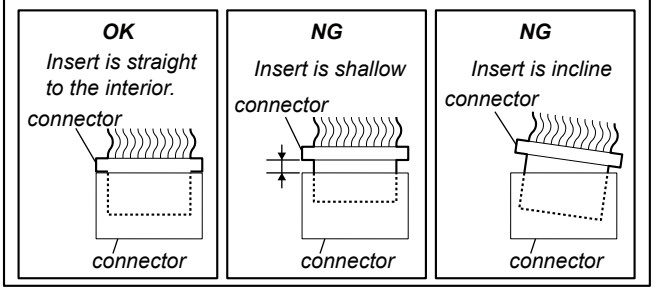
Note 2: When installing the flexible flat cable, ensure that the colored line is not slanted after insertion.



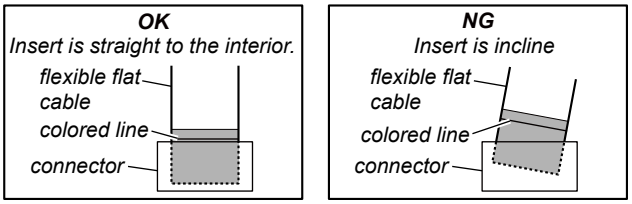
2-22. MAIN BOARD



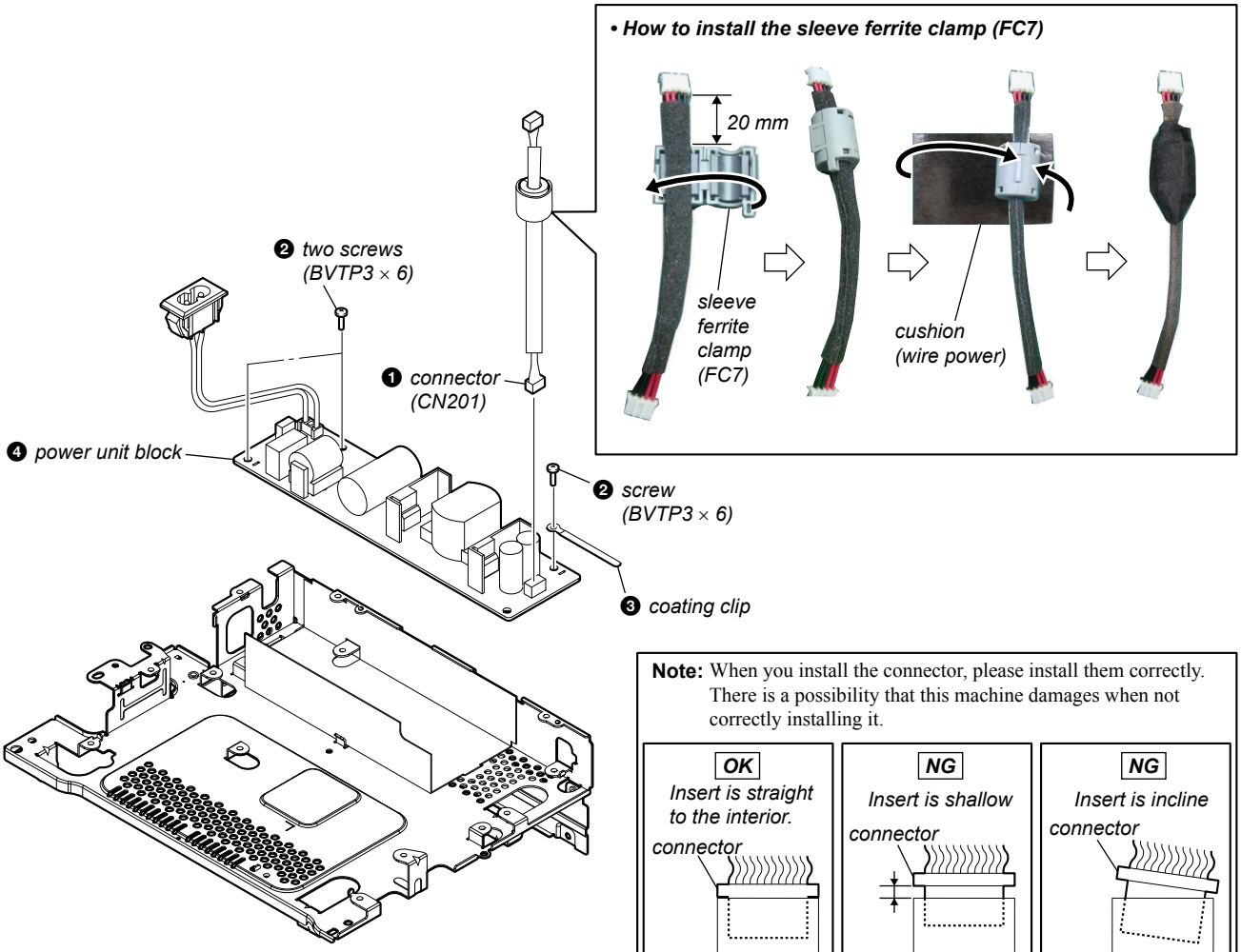
Note 1: When you install the connector, please install them correctly. There is a possibility that this machine damages when not correctly installing it.



Note 2: When installing the flexible flat cable, ensure that the colored line is not slanted after insertion.

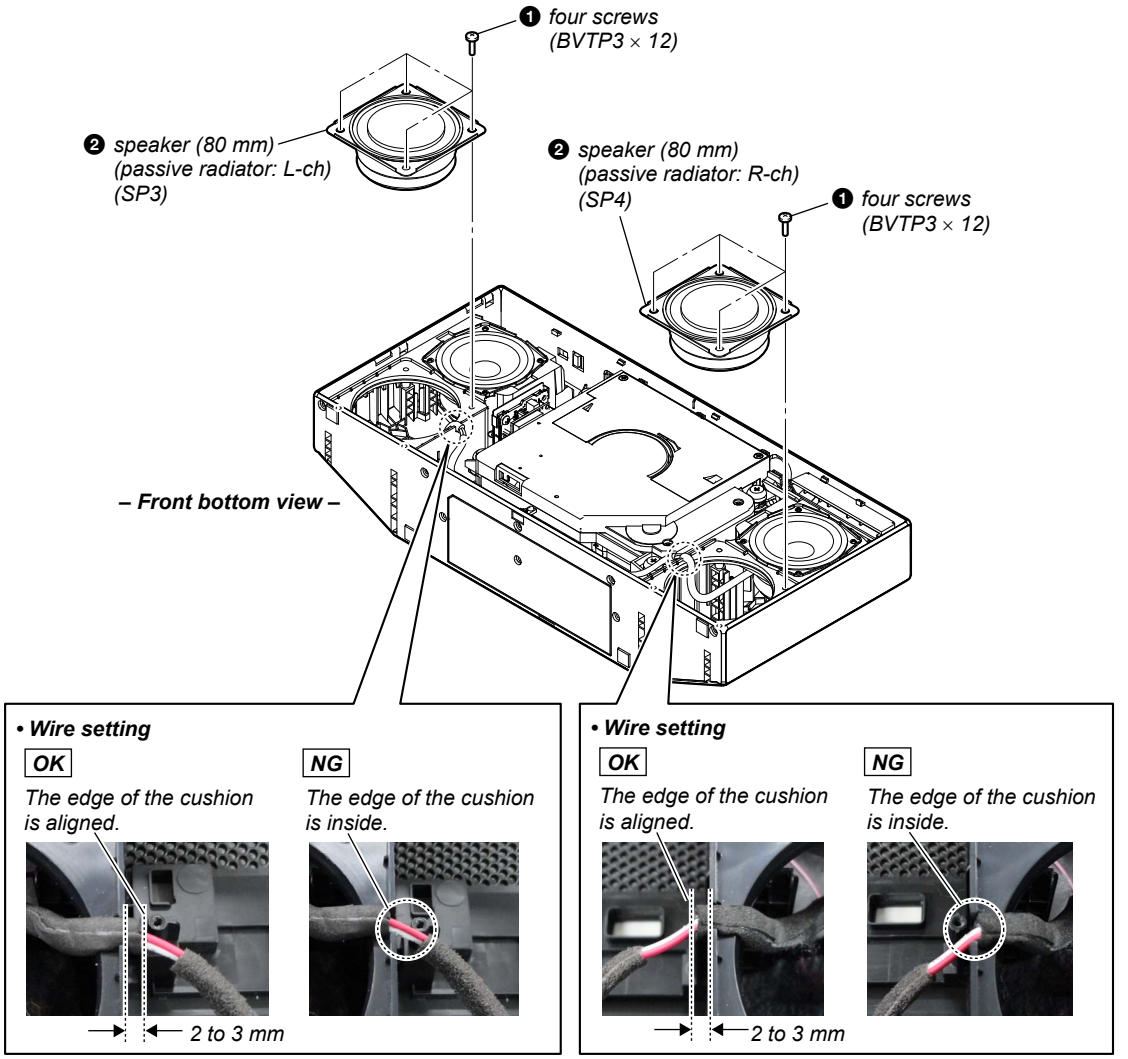


2-23. POWER UNIT BLOCK



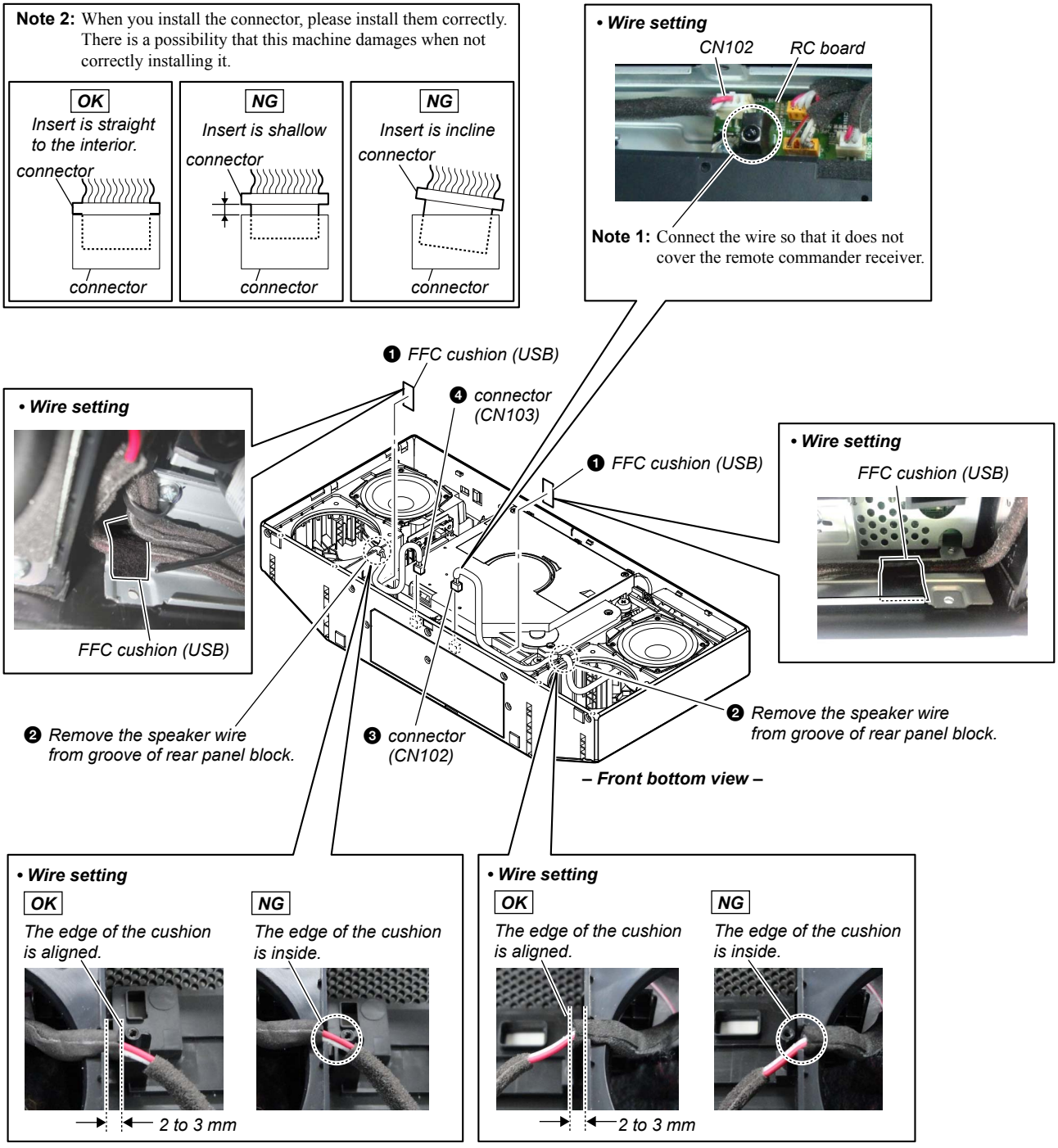
– Main chassis block front bottom view –

2-24. SPEAKER (80 mm) (PASSIVE RADIATOR) (SP3, SP4)

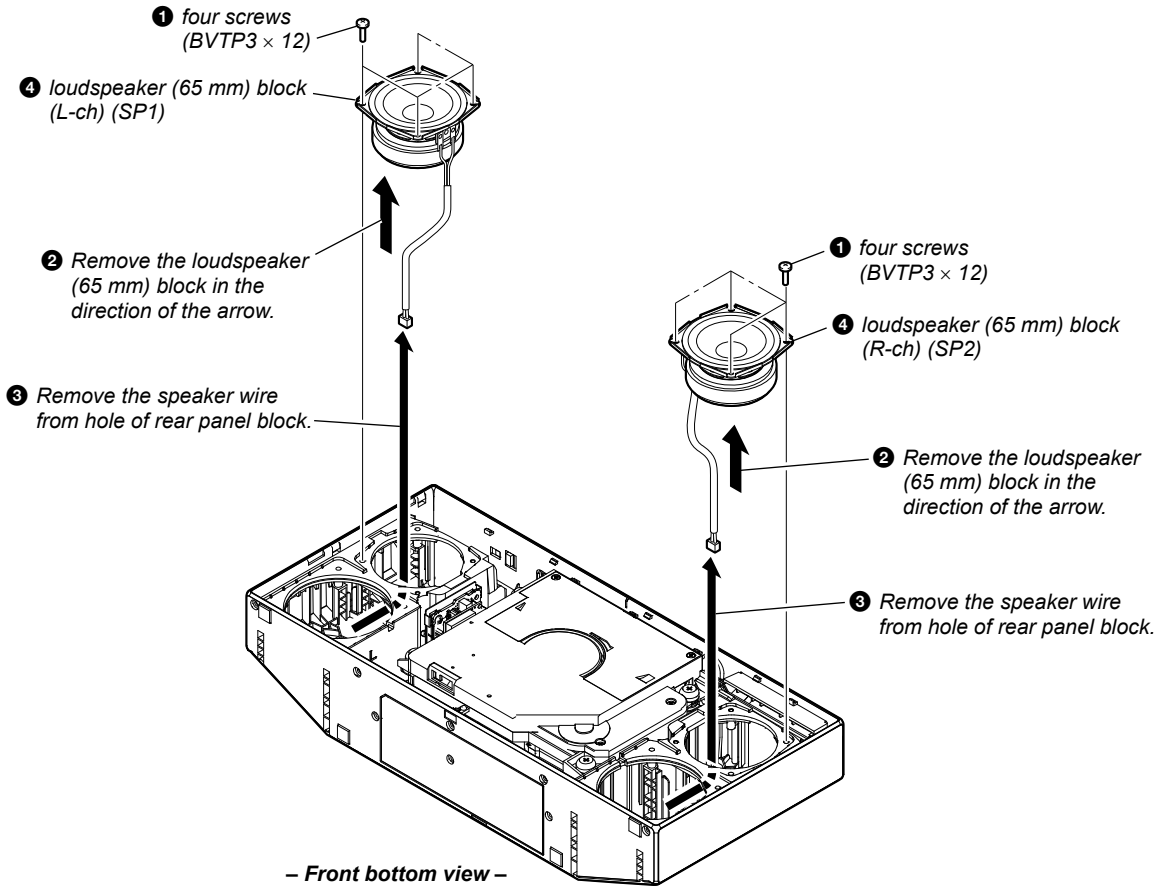


2-25. LOUDSPEAKER (65 mm) BLOCK-1 (SP1, SP2)

• Continued on 2-26 (page 36).

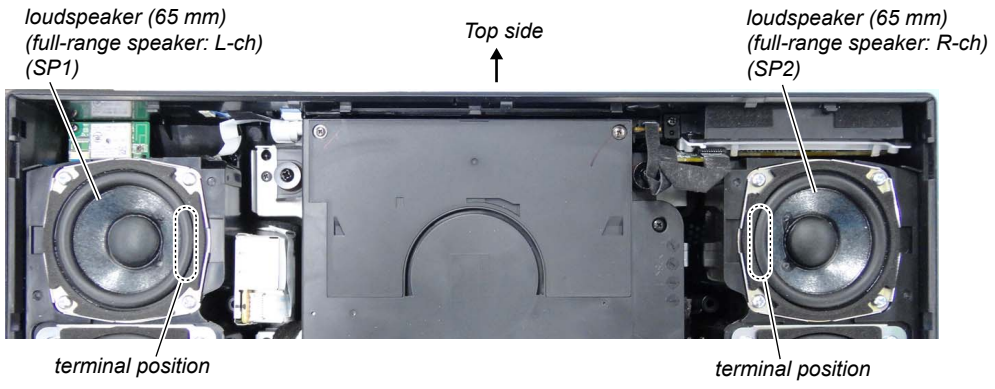


2-26. LOUDSPEAKER (65 mm) BLOCK-2 (SP1, SP2)

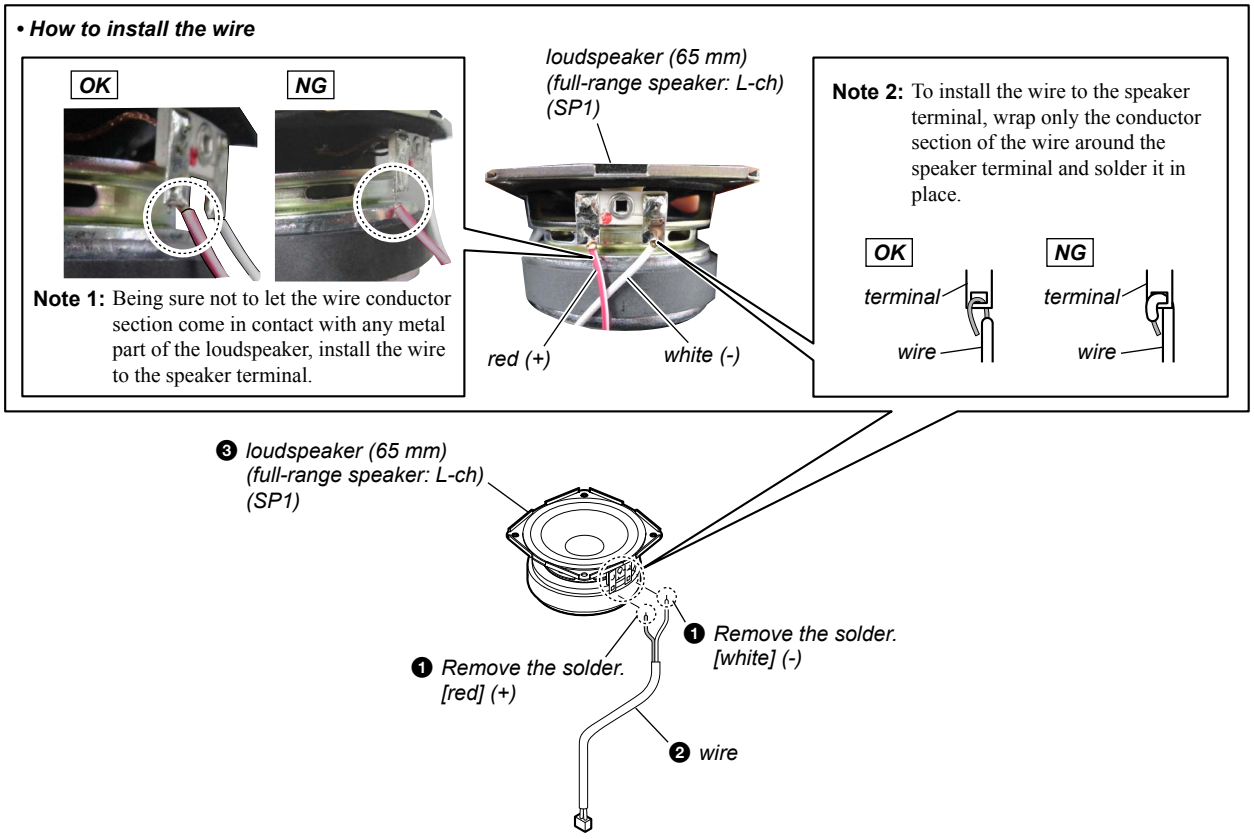


– Front bottom view –

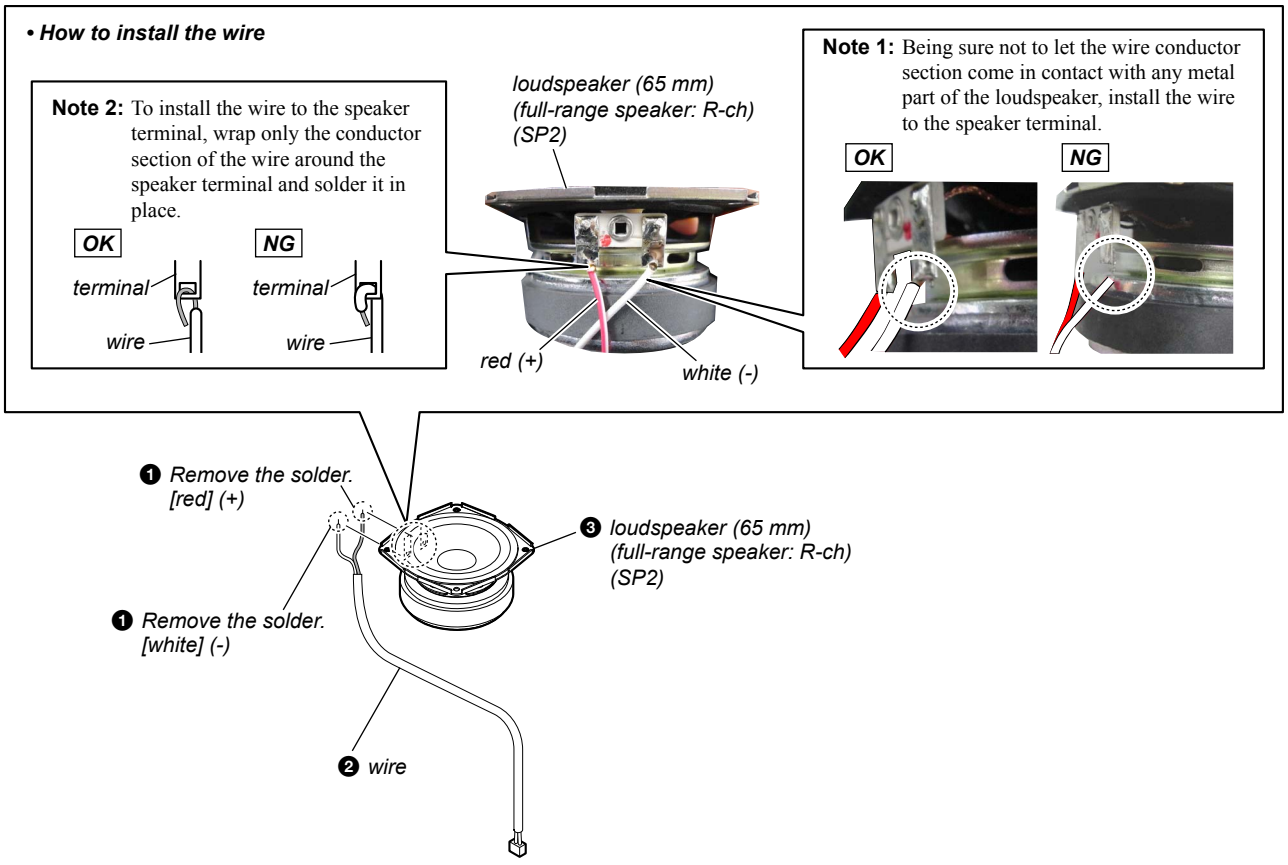
• **How to install the loudspeaker (65 mm) (full-range speaker) (SP1, SP2)**



2-27. LOUDSPEAKER (65 mm) (FULL-RANGE SPEAKER) (SP1)



2-28. LOUDSPEAKER (65 mm) (FULL-RANGE SPEAKER) (SP2)



SECTION 3
TEST MODE

1. TEST MODE BY THE MAIN UNIT OPERATION

It operate the test mode by the main unit.

1-1. Cold Reset

It can clears all data including preset data stored in the memory to initial conditions. Execute this mode when returning the this unit to the customer.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Touch and press two buttons of the [FUNCTION] and [I/⏻] simultaneously for three seconds.
3. The message "RESET" (CMT-X5CD/X5CDB) or "ALLRESET" (CMT-X7CD/X7CDB) is displayed on the liquid crystal display, then becomes the standby state.

Screen display (CMT-X5CD/X5CDB)

Screen display (CMT-X7CD/X7CDB)

1-2. Disc Slot Lock Mode

It can be unable to take sample disc out of disc slot in the shop.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Touch the [FUNCTION] button to select the "CD" function.
3. Insert a disc in the unit.
4. Touch and press two buttons of the [VOL –] and [I/⏻] simultaneously for five seconds.
5. The message "LOCKED" is displayed on the liquid crystal display and the disc slot is locked.
   (Even if pressing the [⏏] button, the message "LOCKED" is displayed on the liquid crystal display and the disc slot is locked)

Screen display

Releasing method:

1. Touch and press two buttons of the [VOL –] and [I/⏻] simultaneously for five seconds
2. The message "UNLOCKED" is displayed on the liquid crystal display and the disc slot is unlocked.

Screen display

1-3. Check Version Display

It can confirm the MC, CD and NW version.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Touch and press two buttons of the [TUNING + ⏭] and [I/⏻] simultaneously for three seconds.
3. It enters the check version display mode, the MC version is displayed on the liquid crystal display.

Screen display
(CMT-X5CD/X5CDB: 1.04, CMT-X7CD/X7CDB: 1.05)

(Displayed values in the above figure are example)

4. Each time [TUNING + ⏭] button is touched, the display changes CD version and NW version (CMT-X7CD/X7CDB only) this order, and release from check version display mode.

MC version

CD version

NW version
(CMT-X7CD/X7CDB only)

Check version display mode releasing

(Displayed values in the above figure are example)

1-4. RF Mode

It can turn on and off the wireless signal of WiFi (CMT-X7CD/X7CDB only) and Bluetooth.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Check that "📶" flashes on the liquid crystal display.
3. Touch and press two buttons of the [TUNING − ⏮] and [I/⏻] simultaneously for three seconds.
4. The message "RF ON" or "RF OFF" is displayed on the liquid crystal display, it turn on or off the wireless signal of WiFi (CMT-X7CD/X7CDB only) and Bluetooth.

Screen display

or

2. TEST MODE BY THE MAIN UNIT AND REMOTE COMMANDER OPERATION

It operate the test mode by the main unit and following remote commander.

Note: A button having no particular description in the text, indicates the main unit button.

Part No.	Description
1-489-989-11	REMOTE COMMANDER (RM-AMU139)

2-1. Reset

It can clears all data including preset data stored in the memory to initial conditions. Execute this mode when returning the this unit to the customer.

Note: It is the same specification as 1-1. Cold Reset on page 38.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the buttons on the remote commander in order of the [ALPHABET SEARCH] → [1] → [ENTER].
   (Press the next button within three seconds)
3. The message "RESET" (CMT-X5CD/X5CDB) or "ALLRESET" (CMT-X7CD/X7CDB) is displayed on the liquid crystal display, then becomes the standby state.

Screen display (CMT-X5CD/X5CDB)

Screen display (CMT-X7CD/X7CDB)

2-2. Common Test

It can confirm the sound function.

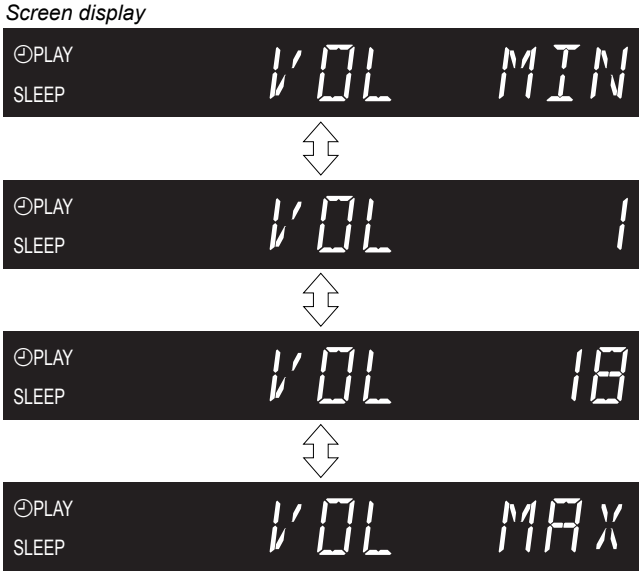
Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the buttons on the remote commander in order of the [ALPHABET SEARCH] → [2] → [ENTER].
   (Press the next button within three seconds)
3. It enters the common test mode, the message "AUDIO IN" is displayed on the liquid crystal display.
   (In this mode, "◴PLAY" and "SLEEP" continues blinking on the liquid crystal display)

Screen display

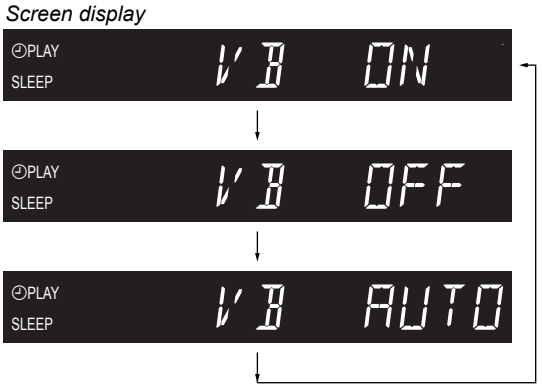
4. When pressing the [VOL +]/[VOL −] button, the message is changed with "VOL MIN" ↔ "VOL 1" ↔ "VOL 18" ↔ "VOL MAX" on the liquid crystal display and volume setting is changed.

Screen display



5. Each time [TUNING + ▶▶I] button is touched, the display changes "VB ON" → "VB OFF" → "VB AUTO" → "VB ON" this order, and virtual bass setting is changed.

Screen display



6. Each time [TUNING ─ I◀◀] button is touched, the display changes "DSEEON" → "DSEEOFF" → "DSEEAUTO" → "DSEEON" this order, and DSEE setting is changed.

Screen display

Releasing method:

Press the [I/⏻] button to reset the main unit and turn the power off.

2-3. Panel Test

It can confirm the liquid crystal display, LEDs, model name, destination, software version and buttons.

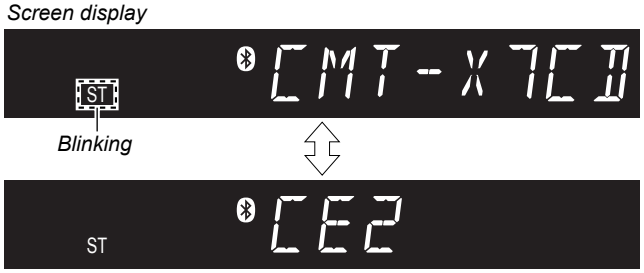
Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the buttons on the remote commander in order of the [ALPHABET SEARCH] → [1] → [9] → [ENTER].
   (Press the next button within three seconds)
3. It enters the panel test mode, and all segments on the liquid crystal display and all LEDs light up.

Screen display

4. When touching the [TUNING + ▶▶I] button, the model name and destination are displayed on the liquid crystal display alternately.
   (In this mode, "ᛒ"continues lighting up and "ST" continues blinking on the liquid crystal display)

Screen display

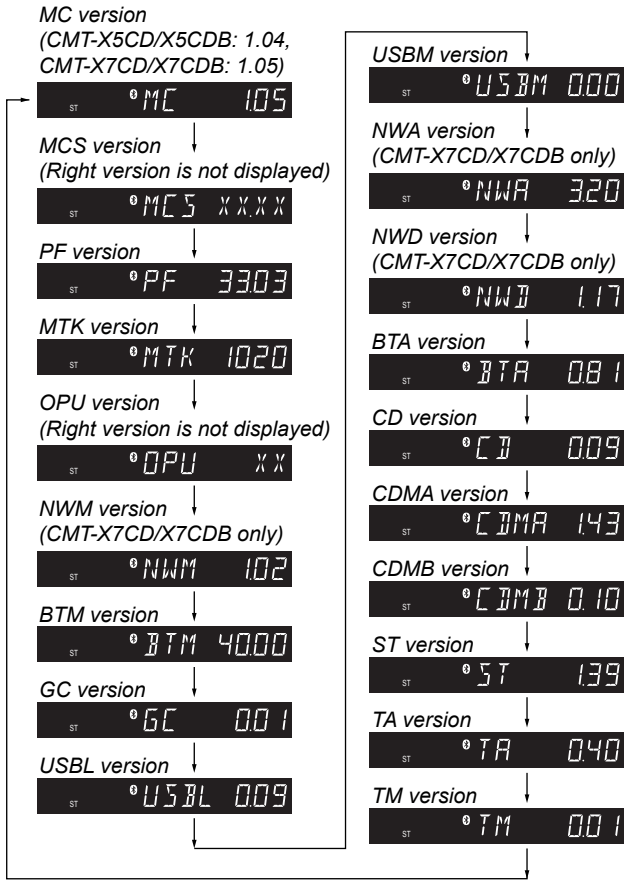


Model Name	Display
CMT-X5CD	CMT-X5CD
CMT-X5CDB	CMTX5CDB
CMT-X7CD	CMT-X7CD
CMT-X7CDB	CMTX7CDB

Destination	Display
US and Canadian	NA
AEP and UK	CE2
Australian	AU
Chinese	CN
Russian	RU
Singapore	ASIA2
Korean	KR

5. When touching the [TUNING + ▶▶I] button again, the MC version is displayed on the liquid crystal display.
6. Each time [TUNING + ▶▶I] button is touched, the display changes MCS version → PF version → MTK version → OPU version → NWM version (CMT-X7CD/X7CDB only) → BTM version → GC version → USBL version → USBM version → NWA version (CMT-X7CD/X7CDB only) → NWD version (CMT-X7CD/X7CDB only) → BTA version → CD version → CDMA version → CDMB version → ST version → TA version → TM version this order, and returns to the MC version display.

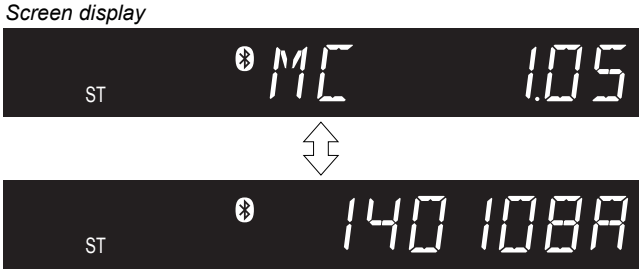
Note: As for MCS version and OPU version, right version is not displayed on the liquid crystal display. Don't refer to the value.



(Displayed values in the above figure are example)

7. When pressing the [■] button on the remote commander while the each version is displayed, year, month and day of the software creation is displayed. When pressing the [■] button on the remote commander again, the display returns to the each version display.

Screen display



(Displayed values in the above figure are example)

8. When touching the [TUNING ─ I◀◀] button, "K 0" is displayed on the liquid crystal display.

Screen display

9. Each time a button is pressed and touched, "K 0" value increases. However, once a button is pressed and touched, it is no longer taken into account.
   When pressing and touching the all buttons, display becomes "K8".

Screen display

Releasing method:

Press the buttons on the remote commander in order of the [ALPHABET SEARCH] → [1] → [9] → [ENTER].
(Press the next button within three seconds)

SECTION 4
ELECTRICAL CHECKS

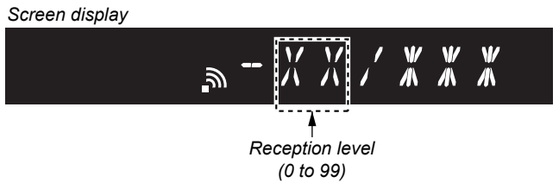
2-4. WiFi Reception Level (CMT-X7CD/X7CDB only)

It can display the reception level at the time of wireless LAN connection.

Procedure:

1. Set this unit to wireless LAN connection state.
   (Refer to "CHECKING METHOD OF NETWORK CONNECTION" on page 5)
2. Press the buttons on the remote commander in order of the [ALPHABET SEARCH] → [9] → [7] → [ENTER].
   (Press the next button within three seconds)
3. The reception level is displayed on the liquid crystal display.

Screen display



Releasing method:

Press the [I/⏻] button to turn the power off or press the buttons on the remote commander in order of the [ALPHABET SEARCH] → [9] → [7] → [ENTER].
(Press the next button within three seconds)

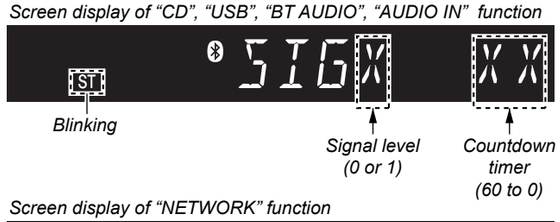
2-5. Auto Standby Test

It can confirm the auto standby function operates normally.
The auto standby function operates in 60 seconds in this mode.
(Usually, it takes 15 minutes)

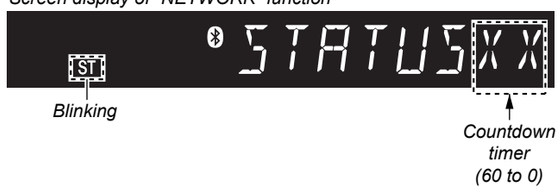
Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Touch the [FUNCTION] button to select except "FM" and "DAB".
3. Press the buttons on the remote commander in order of the [ALPHABET SEARCH] → [9] → [9] → [ENTER].
   (Press the next button within three seconds)
4. It enters the auto standby test mode, and the following screen is displayed on the liquid crystal display.
   (In this mode, "ᛒ"continues lighting up and "ST" continues blinking on the liquid crystal display)

Screen display of "CD", "USB", "BT AUDIO", "AUDIO IN" function



Screen display of "NETWORK" function



5. In the case of the following states, the countdown timer decreases. This unit will become standby states if the countdown timer decreases to "0".

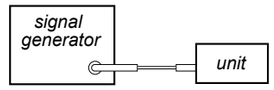
   - Operation is not performed.
   - The signal level is lower than threshold.
     ("CD", "USB", "BT AUDIO", "AUDIO IN" function only)
   - NETWORK audio is stop status.
     ("NETWORK" function only)

Releasing method:

Press the buttons on the remote commander in order of the [ALPHABET SEARCH] → [9] → [9] → [ENTER].
(Press the next button within three seconds)

TUNER SECTION | 0 dB = 1 μV

FM AUTO STOP CHECK



Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Input the following signal from signal generator to FM antenna input directly.

Carrier frequency : A = 87.5 MHz, B = 98 MHz, C = 108 MHz
Deviation : 75 kHz
Modulation : 1 kHz
ANT input : 35 dBu (EMF)

Note: Use 75 ohm coaxial cable to connect signal generator and the unit.
You cannot use video cable for checking.
Use signal generator whose output impedance is 75 ohm.

3. Touch the [FUNCTION] button to turn the FM tuner function and scan the input FM signal with automatic scanning.
4. Confirm that input frequency of A, B and C detected and automatic scanning stops.

When the station signal is received in good condition, automatic scanning stops.

CD SECTION

Note:

1. CD block is basically constructed to operate without adjustment.
2. Use the HLX-A1 test disc (Part No. J-2501-307-A) unless otherwise indicated.
3. Clean the object lens by an applicator with neutral detergent when the check result is "NG" with the following check.

SERVO CHECK

It can confirm the servo function.

Note 1: A button having no particular description in the text, indicates the main unit button.
Also the remote commander use the following when performing this mode.
It cannot be operated with the remote commander attached to this unit.

Part No.	Description
1-489-989-11	REMOTE COMMANDER (RM-AMU139)

Procedure:

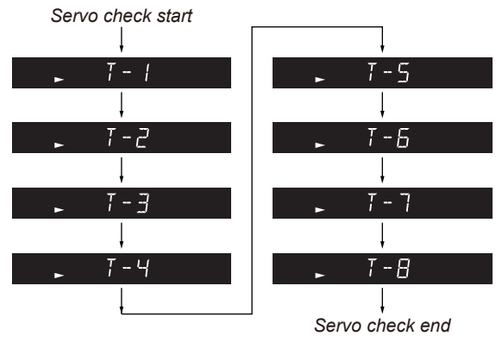
1. Press the [I/⏻] button to turn the power on.
2. Touch the [FUNCTION] button to select the "CD" function.
3. Touch and press two buttons of the [▶II] and [I/⏻] simultaneously for five seconds, or press the buttons on the remote commander in order of the [ALPHABET SEARCH] → [9] → [1] → [ENTER] (press the next button within three seconds).

Note 2: The specifications are the same even if entering to the check mode by either operation.

4. Check that "SET DISC" is displayed on the liquid crystal display.

Screen display

5. Insert the test disc (HLX-A1) in the unit.
6. Servo check is started, following screen is displayed on the liquid crystal display.



7. When servo check is ended, the test disc (HLX-A1) is ejected automatically, and "PASS" or "NG X" (X: error No. (1 to 8)) is displayed on the liquid crystal display.

Screen display

or

Error No.
(1 to 8)

Error No.	Servo Check Item
1	Disc Type
2	SPFG (No Check)
3	Mirror Time
4	TE_Level
5	S_Level
6	S_Balance
7	RFLvl
8	Jitter

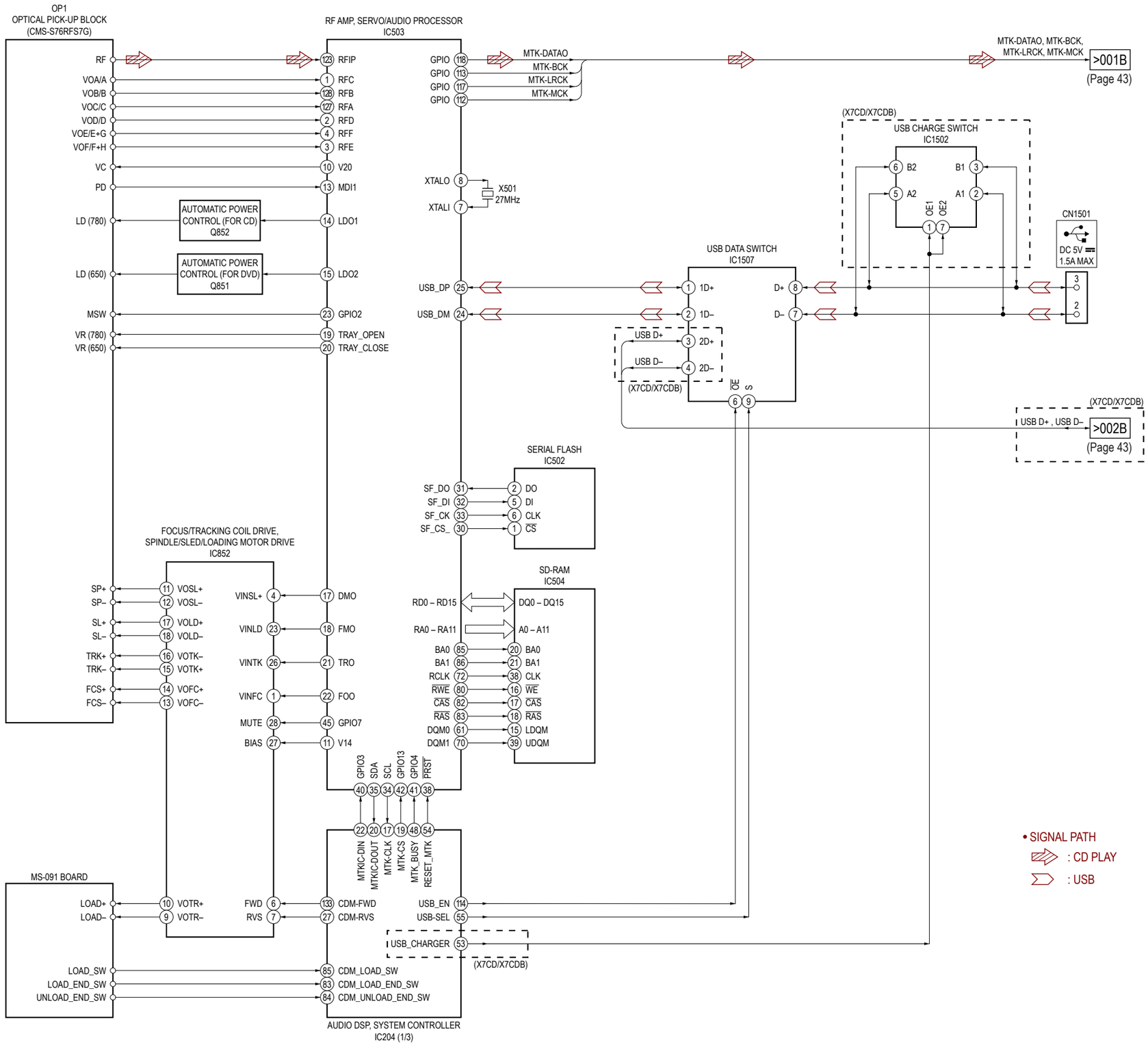
Releasing method:

It can release by any of the following method.

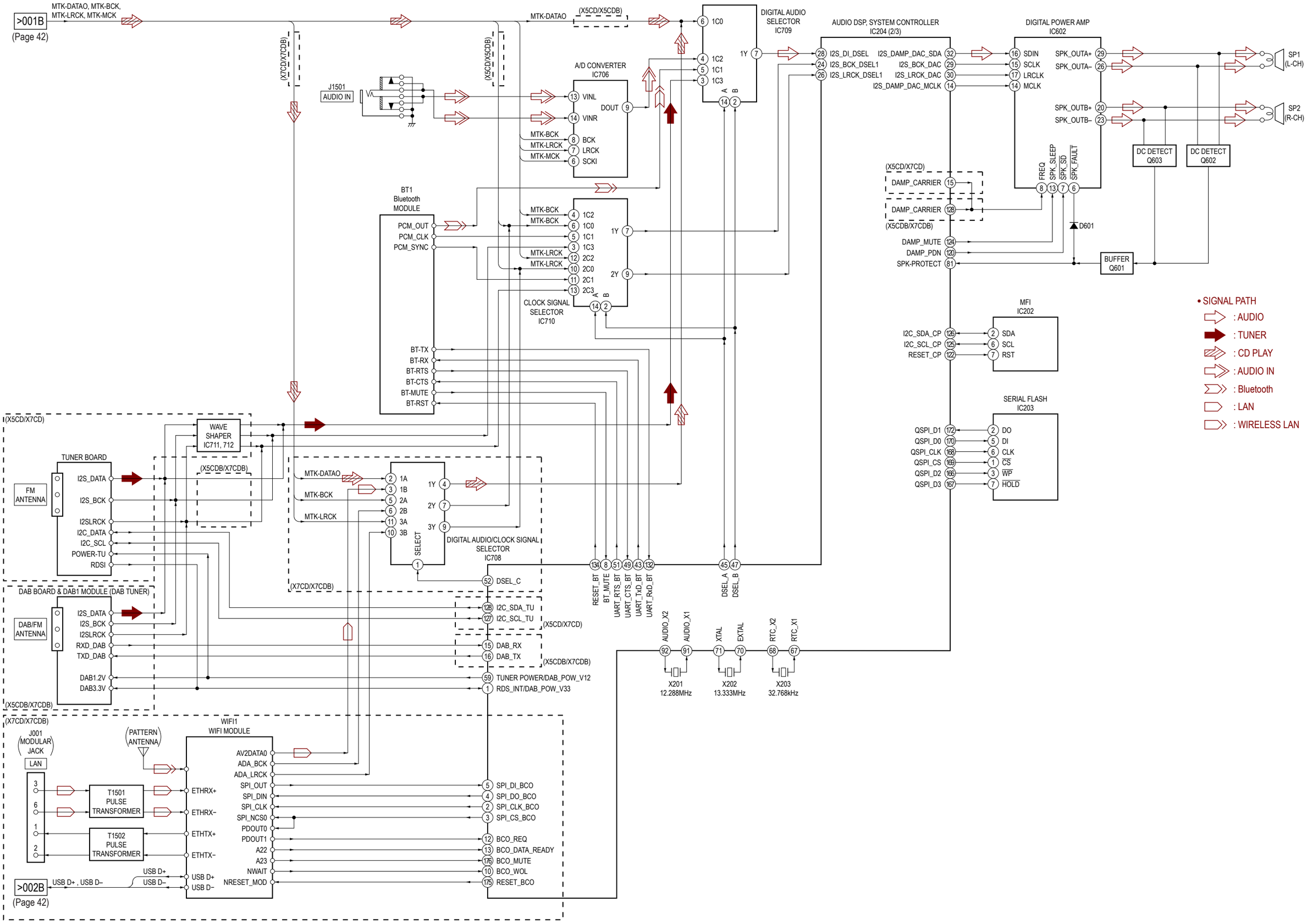
- Touch and press two buttons of the [▶II] and [I/⏻] simultaneously for five seconds.
- Press the buttons on the remote commander in order of the [ALPHABET SEARCH] → [9] → [1] → [ENTER].
  (Press the next button within three seconds)
- Touch the [FUNCTION] button to select the except CD function.
- Press the [I/⏻] button to turn the power off.

SECTION 5
DIAGRAMS

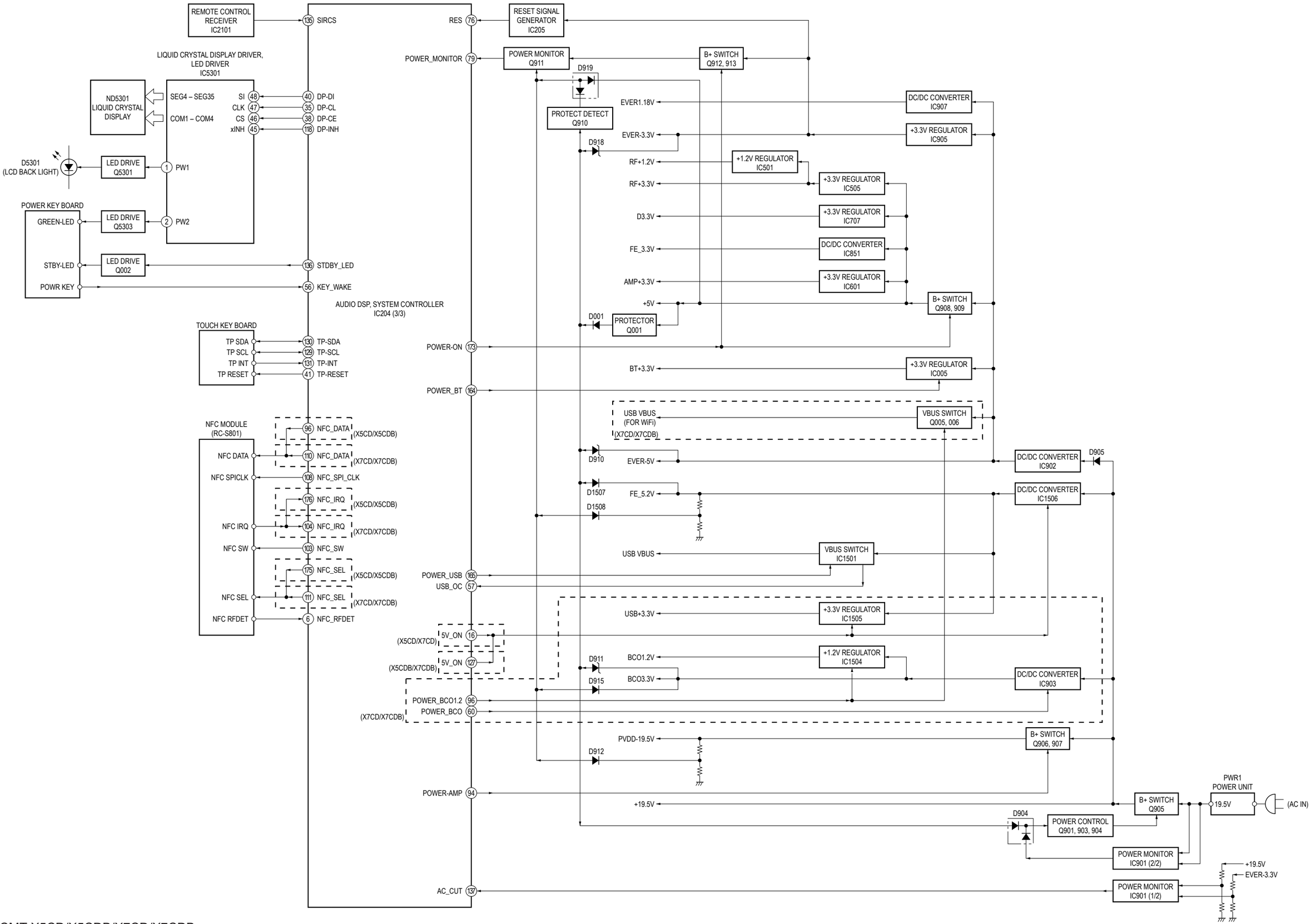
5-1. BLOCK DIAGRAM - CD/USB Section -



5-2. BLOCK DIAGRAM - AUDIO Section -



5-3. BLOCK DIAGRAM - PANEL/POWER SUPPLY Section -



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

For Printed Wiring Boards.

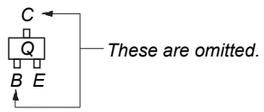
Note:

- o——: 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.

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

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



- Abbreviation
  AUS : Australian model
  CH : Chinese model
  CND : Canadian model
  KR : Korean model
  RU : Russian model
  SP : Singapore model

For Schematic Diagrams.

Note:

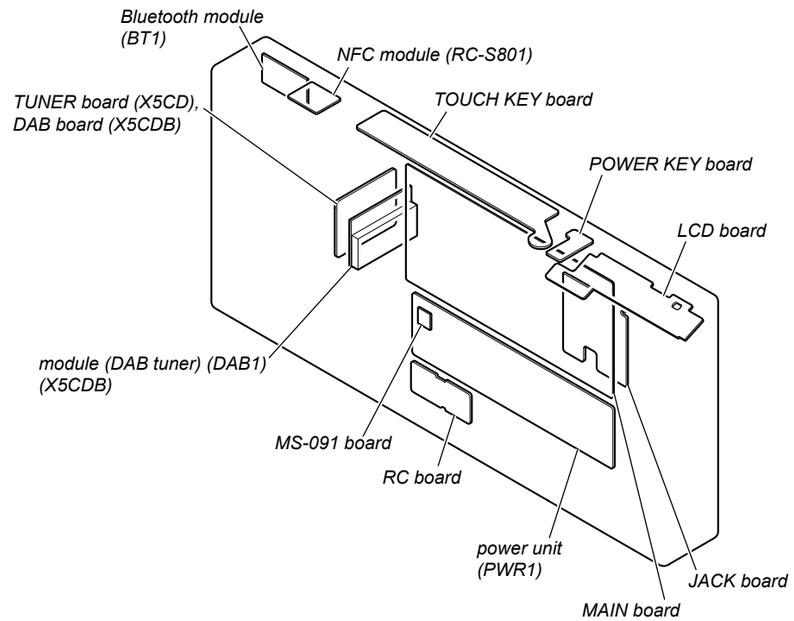
- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : Internal component.
- ▭ : Panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Note: Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.
注意: 原理图和零件清单中标有⚠记号的零部件，或带有⚠记号的虚线所圈示的零部件，对于维系安全至关重要。因此只能以指定号码的零部件来更换。

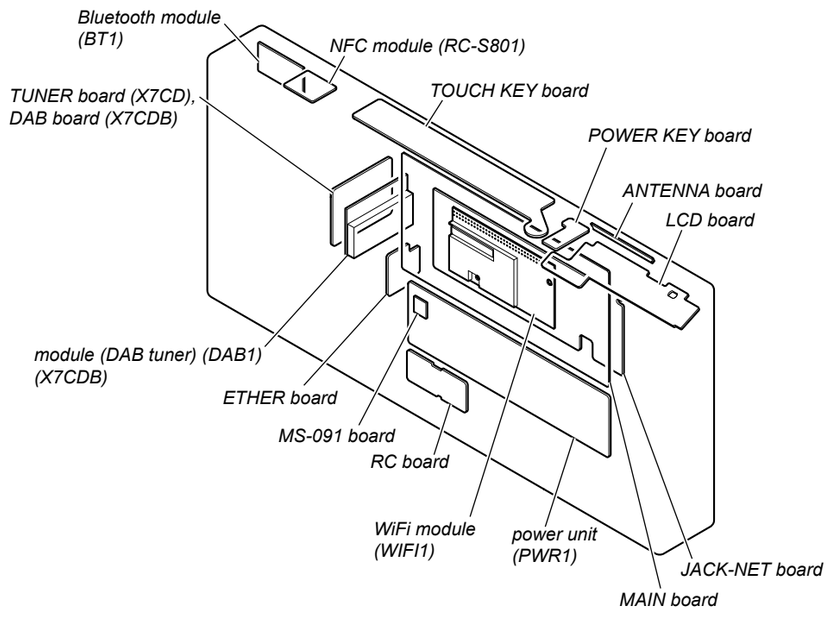
- ▬▬: B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: TUNER
  ( ): CD PLAY
  < >: Bluetooth
  [ ]: USB
  ∗ : Impossible to measure
- Voltages are taken with VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : AUDIO
  ➡ : TUNER
  ⇨ : CD PLAY
  ⇨ : AUDIO IN
  ⇨ : USB
  ⇨ : Bluetooth
  ⇨ : LAN
  ⇨ : WIRELESS LAN
- Abbreviation
  AUS : Australian model
  CH : Chinese model
  CND : Canadian model
  KR : Korean model
  RU : Russian model
  SP : Singapore model

- **Circuit Boards Location**

– X5CD/X5CDB –

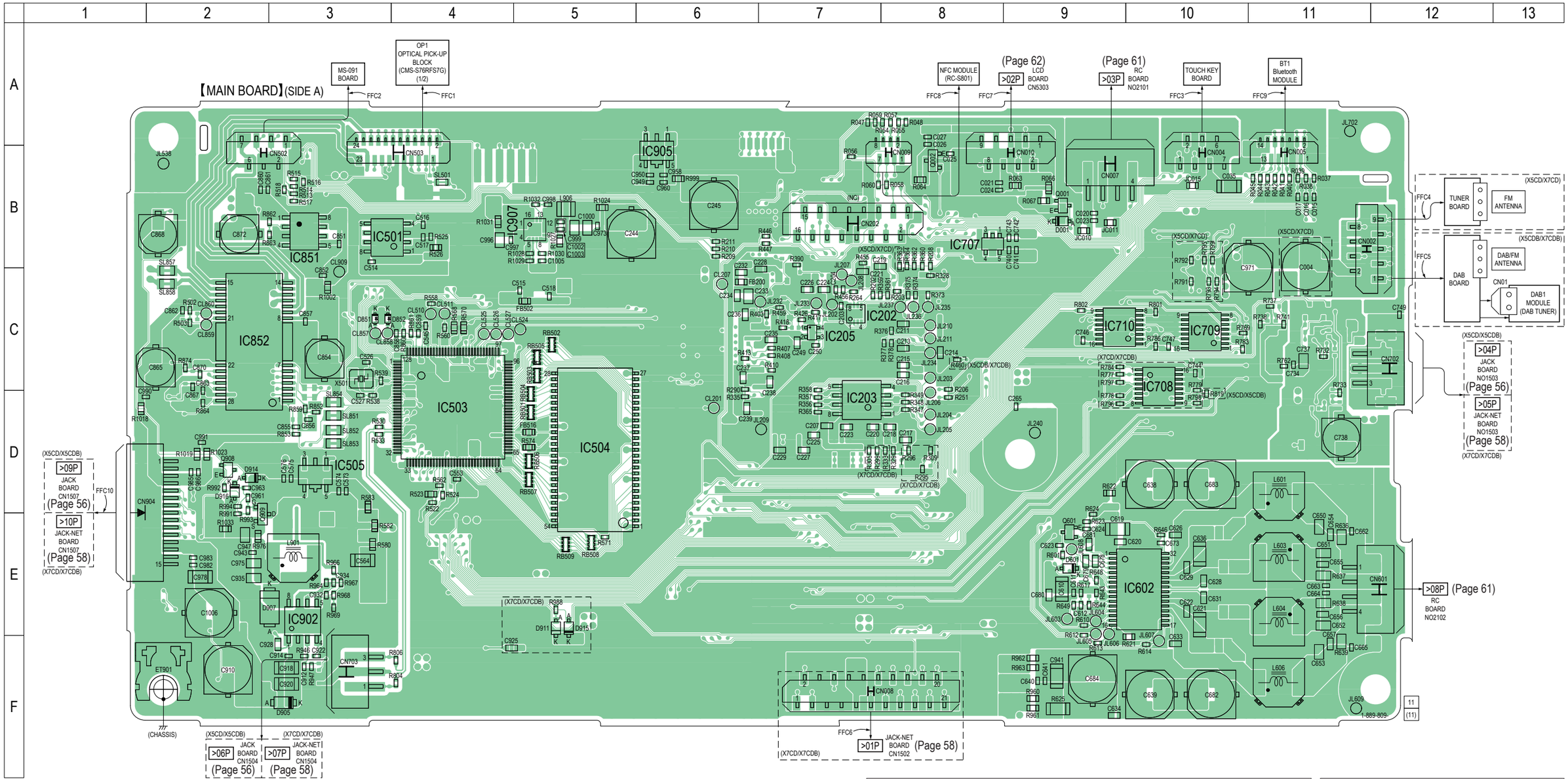


– X7CD/X7CDB –



5-4. PRINTED WIRING BOARDS - MAIN Section (1/2) -

• See page 45 for Circuit Boards Location. • : Uses unleaded solder.



Note 1: IC202, IC203, IC602, IC851 and IC907 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

Note 2: When the TUNER board is defective, replace the complete mounted board.

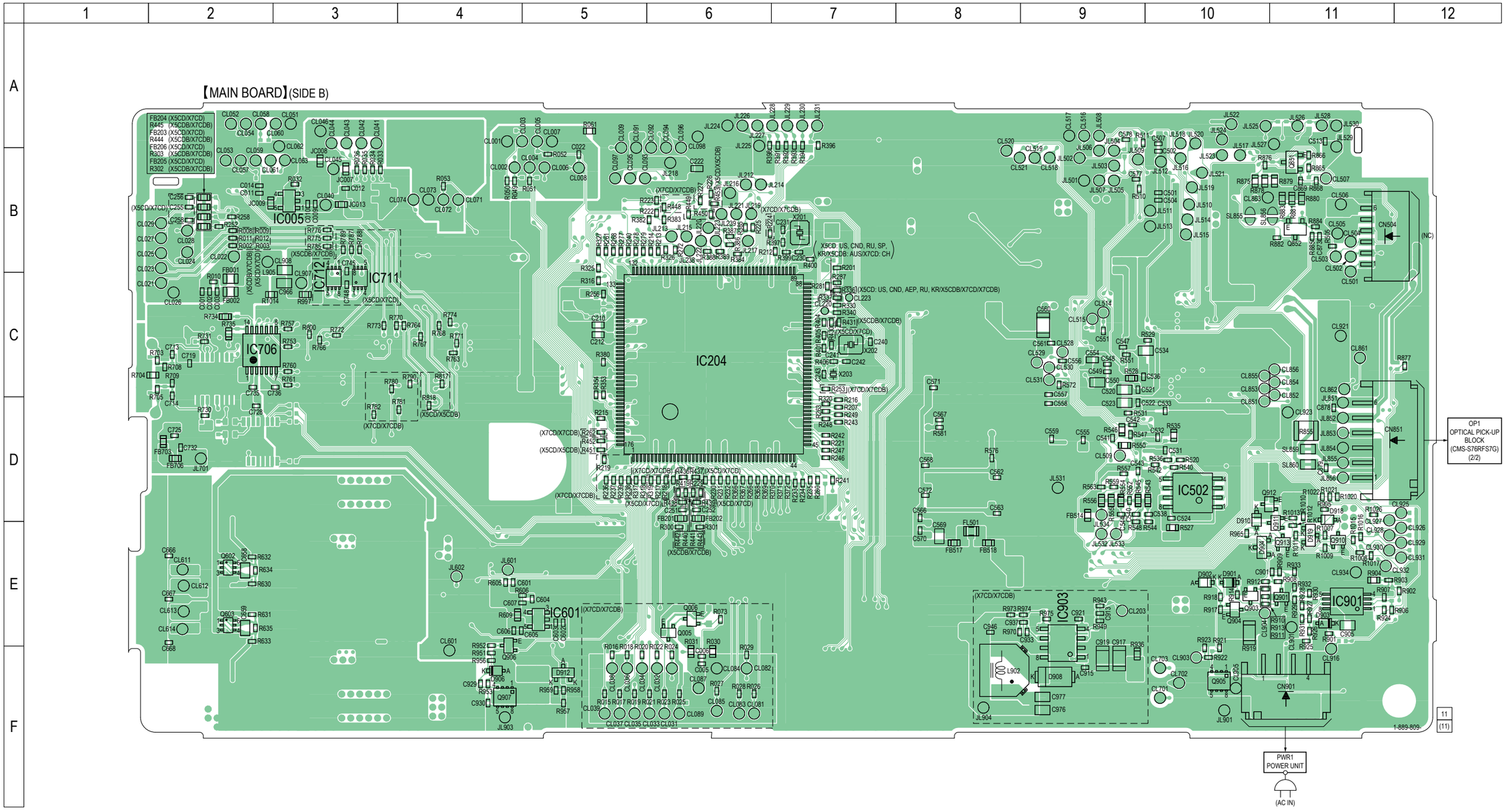
Note 3: When the DAB board is defective, replace the complete mounted board.

Note 4: When the TOUCH KEY board is defective, replace the REAR SVX PANEL (Ref. No. RP1).

Note 5: When the MS-091 board is defective, replace the LOADING ASSY (Ref. No. CDM1).

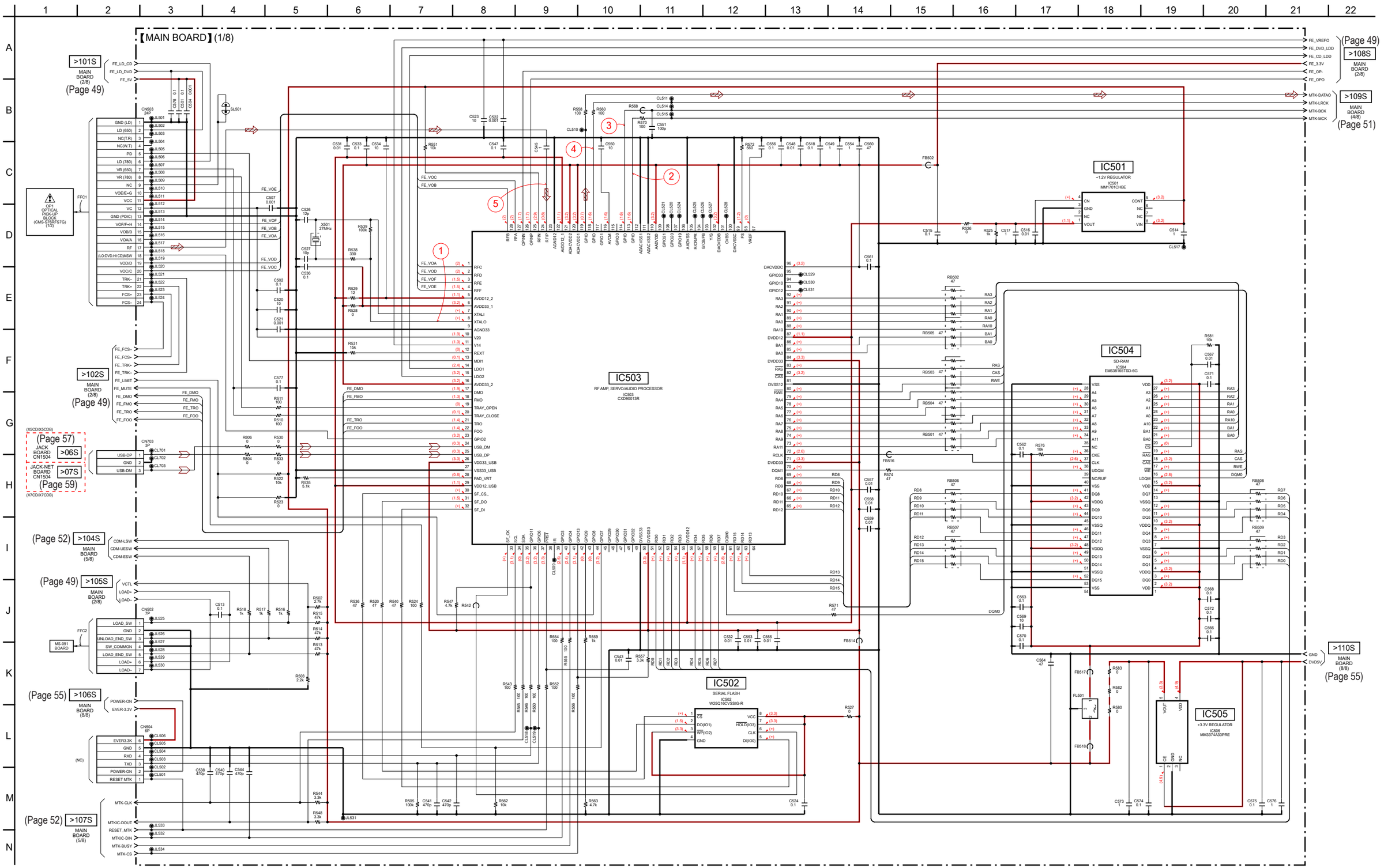
5-5. PRINTED WIRING BOARD - MAIN Section (2/2) -

• See page 45 for Circuit Boards Location. • : Uses unleaded solder.



Note: IC502 on the MAIN board cannot replace with single. When this part is damaged, replace the complete mounted board.

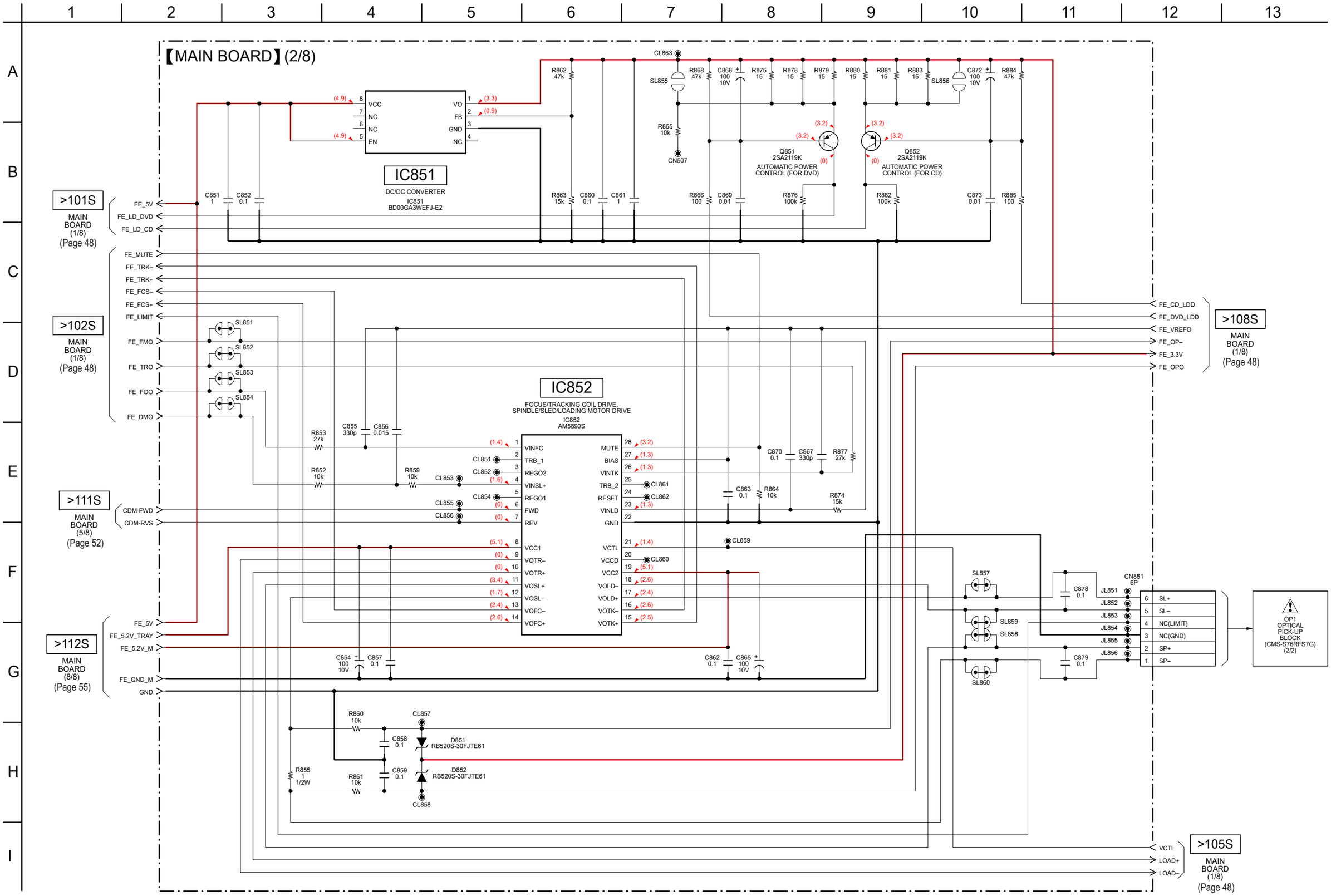
5-6. SCHEMATIC DIAGRAM - MAIN Section (1/8) - • See page 64 for Waveforms. • See page 64 for IC Block Diagrams. • See page 72 for IC Pin Function Description.



Note 1: IC502 on the MAIN board cannot replace with single. When this part is damaged, replace the complete mounted board.

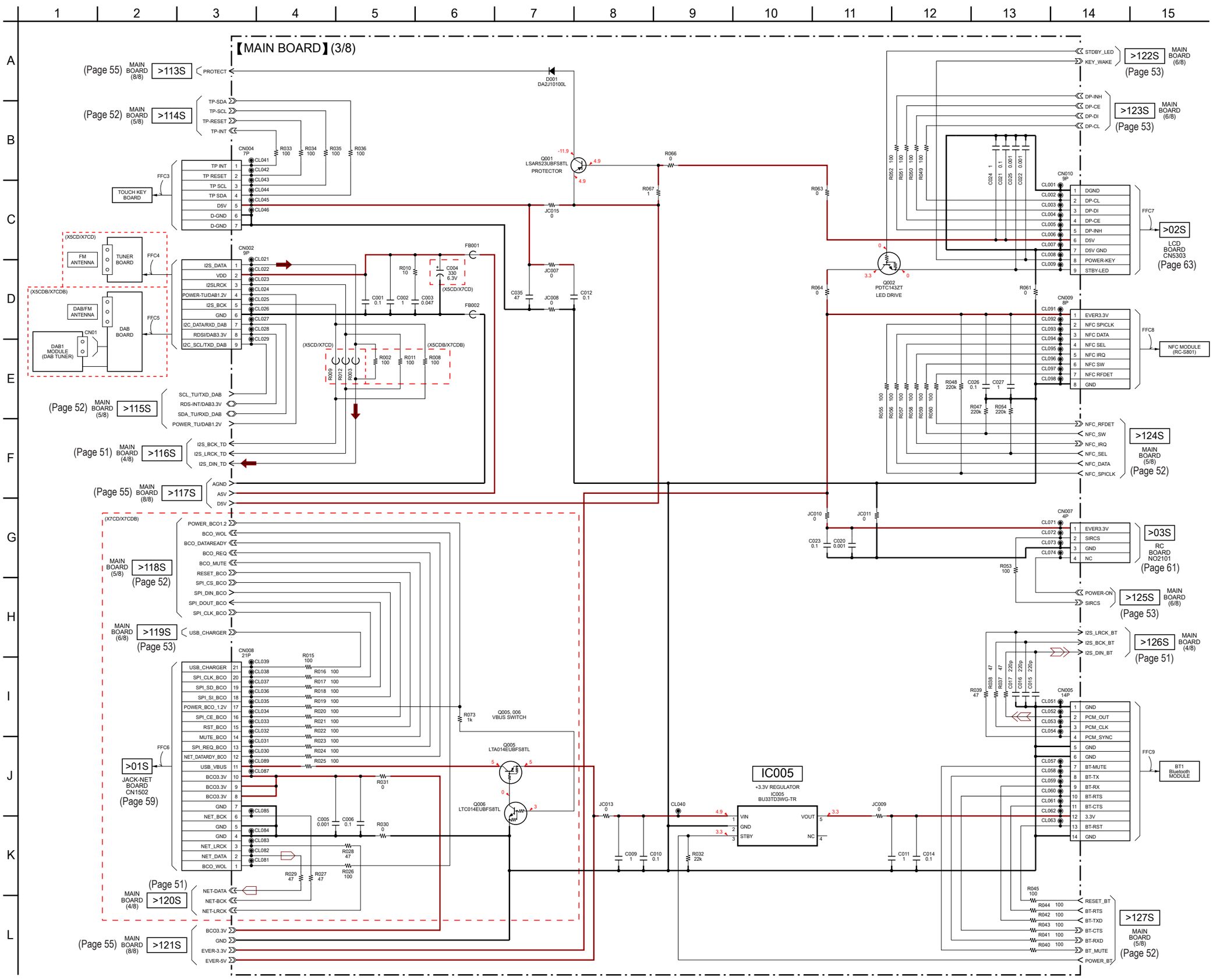
Note 2: When the MS-091 board is defective, replace the LOADING ASSY (Ref. No. CDM1).

5-7. SCHEMATIC DIAGRAM - MAIN Section (2/8) - • See page 64 for IC Block Diagrams.



Note: IC851 on the MAIN board cannot replace with single. When this part is damaged, replace the complete mounted board.

5-8. SCHEMATIC DIAGRAM - MAIN Section (3/8) - • See page 64 for IC Block Diagrams.

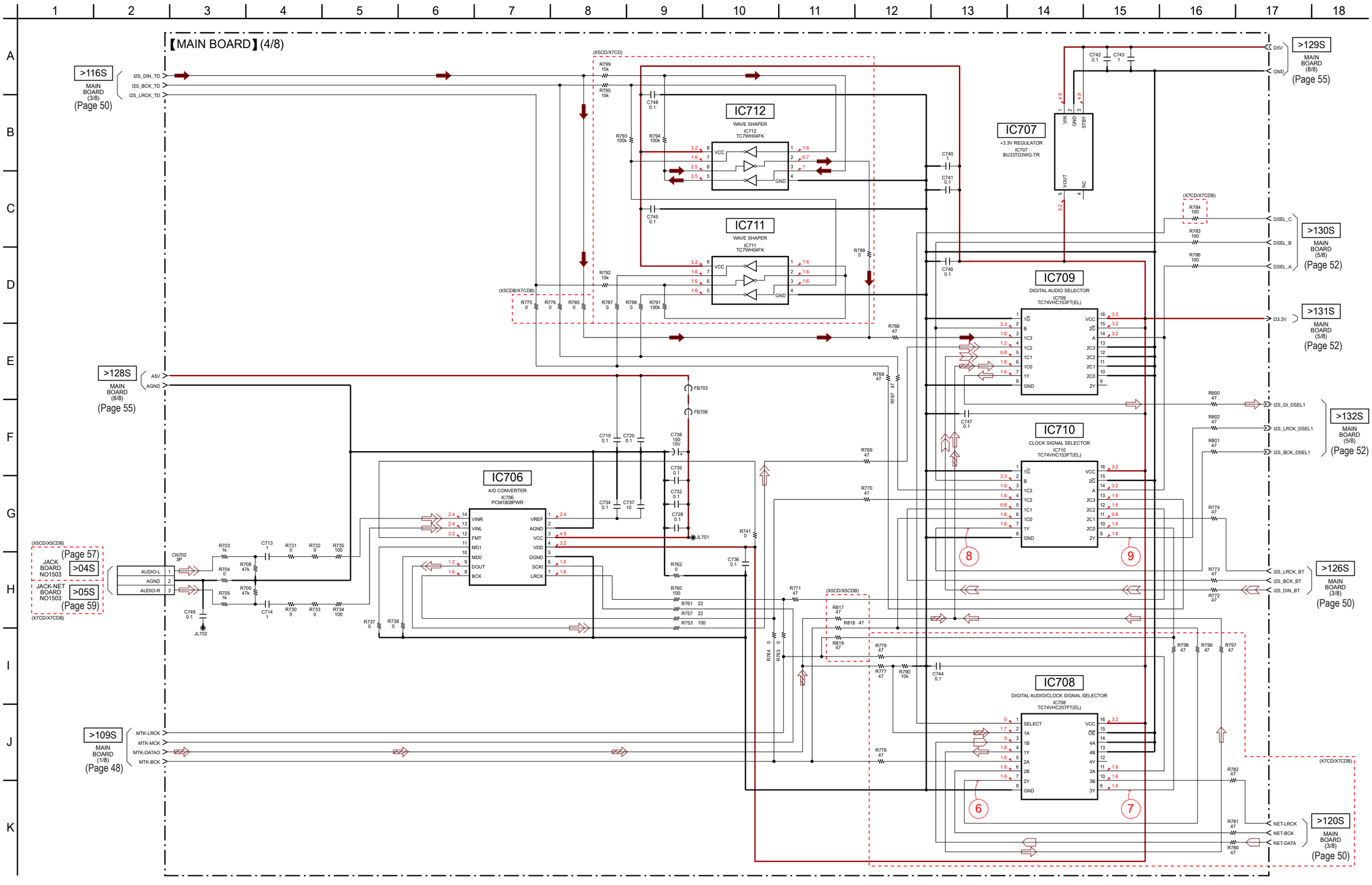


Note 1: When the TUNER board is defective, replace the complete mounted board.

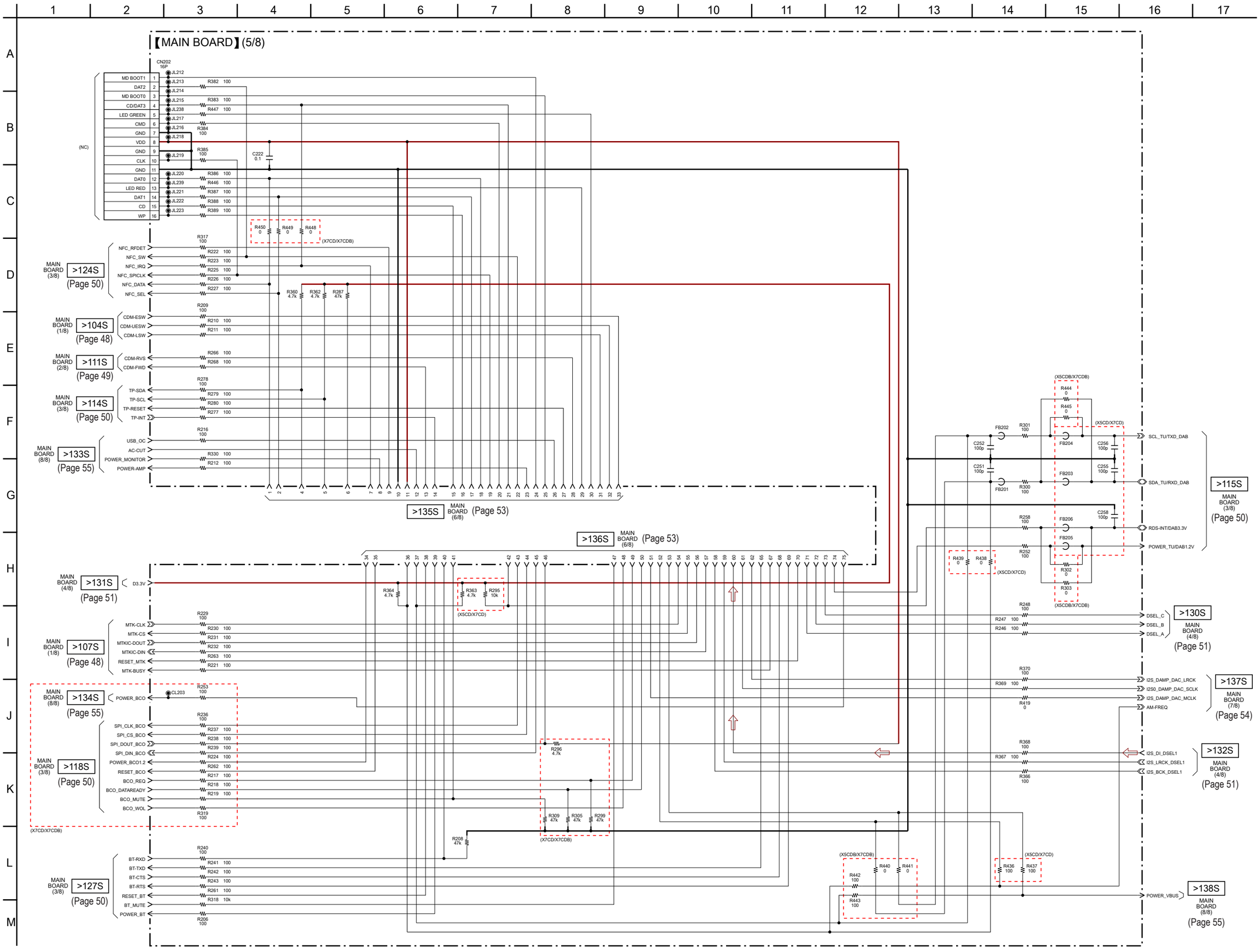
Note 2: When the DAB board is defective, replace the complete mounted board.

Note 3: When the TOUCH KEY board is defective, replace the REAR SVX PANEL (Ref. No. RP1).

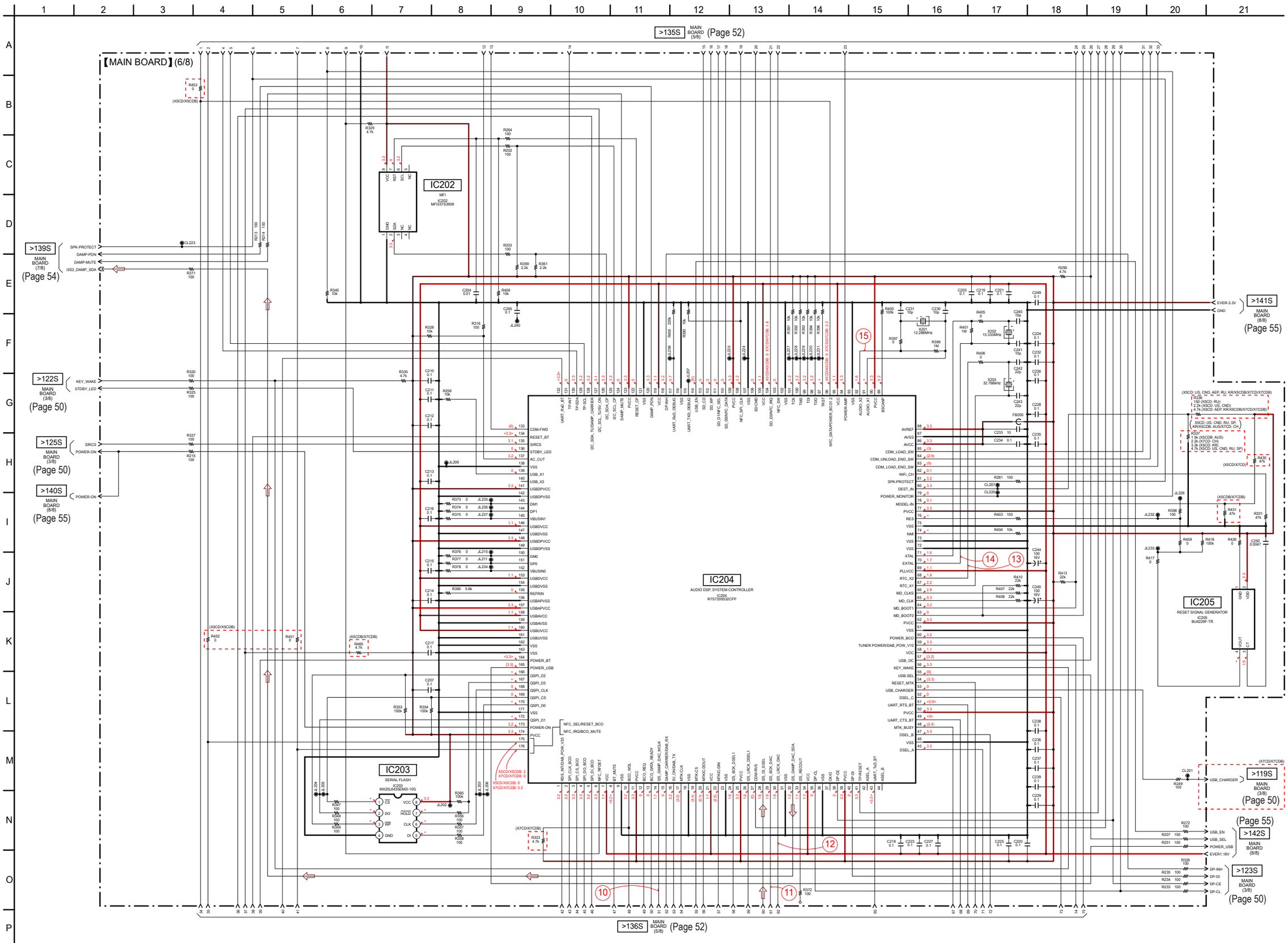
5-9. SCHEMATIC DIAGRAM - MAIN Section (4/8) - • See page 64 for Waveforms. • See page 64 for IC Block Diagrams.



5-10. SCHEMATIC DIAGRAM - MAIN Section (5/8) -



5-11. SCHEMATIC DIAGRAM - MAIN Section (6/8) - • See page 64 for Waveforms. • See page 64 for IC Block Diagrams. • See page 72 for IC Pin Function Description.



Note: IC202 and IC203 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

5-12. SCHEMATIC DIAGRAM - MAIN Section (7/8) - • See page 64 for IC Block Diagrams.

【MAIN BOARD】(7/8)

IC601
+3.3V REGULATOR
IC601
BU33TD3WG-TR

IC602
DIGITAL POWER AMP
IC602
TAS5760MDAPR

Q601
LSCR523UBFS8TL
BUFFER

Q602
HN1A01FU
DC DETECT

Q603
HN1A01FU
DC DETECT

D601
DA2J10100L

>143S
MAIN BOARD (8/8) (Page 55)

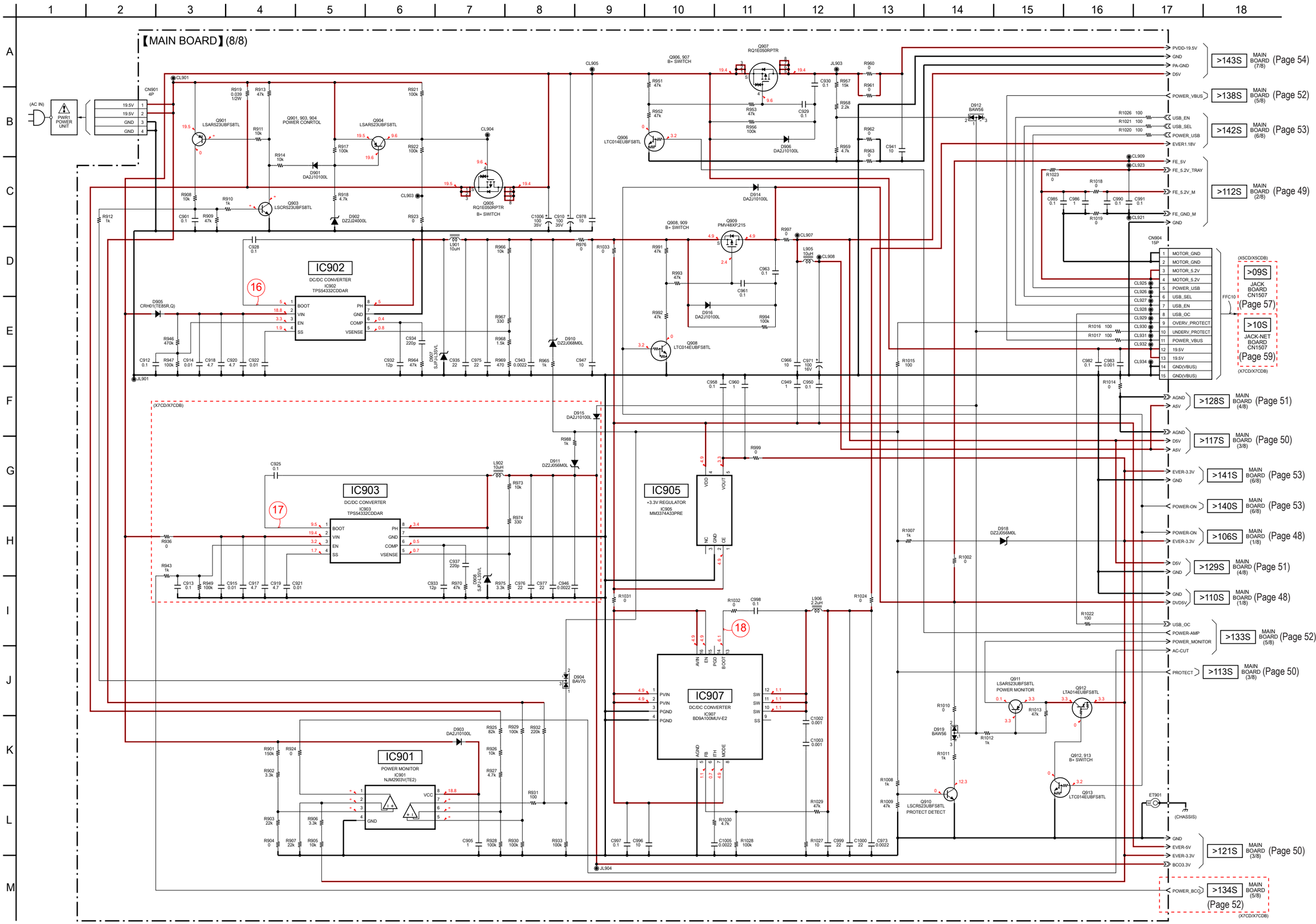
>139S
MAIN BOARD (6/8) (Page 53)

>137S
MAIN BOARD (5/8) (Page 52)

>08S
RC BOARD NO2102 (Page 61)

Note: IC602 on the MAIN board cannot replace with single. When this part is damaged, replace the complete mounted board.

5-13. SCHEMATIC DIAGRAM - MAIN Section (8/8) - • See page 64 for Waveforms. • See page 64 for IC Block Diagrams.

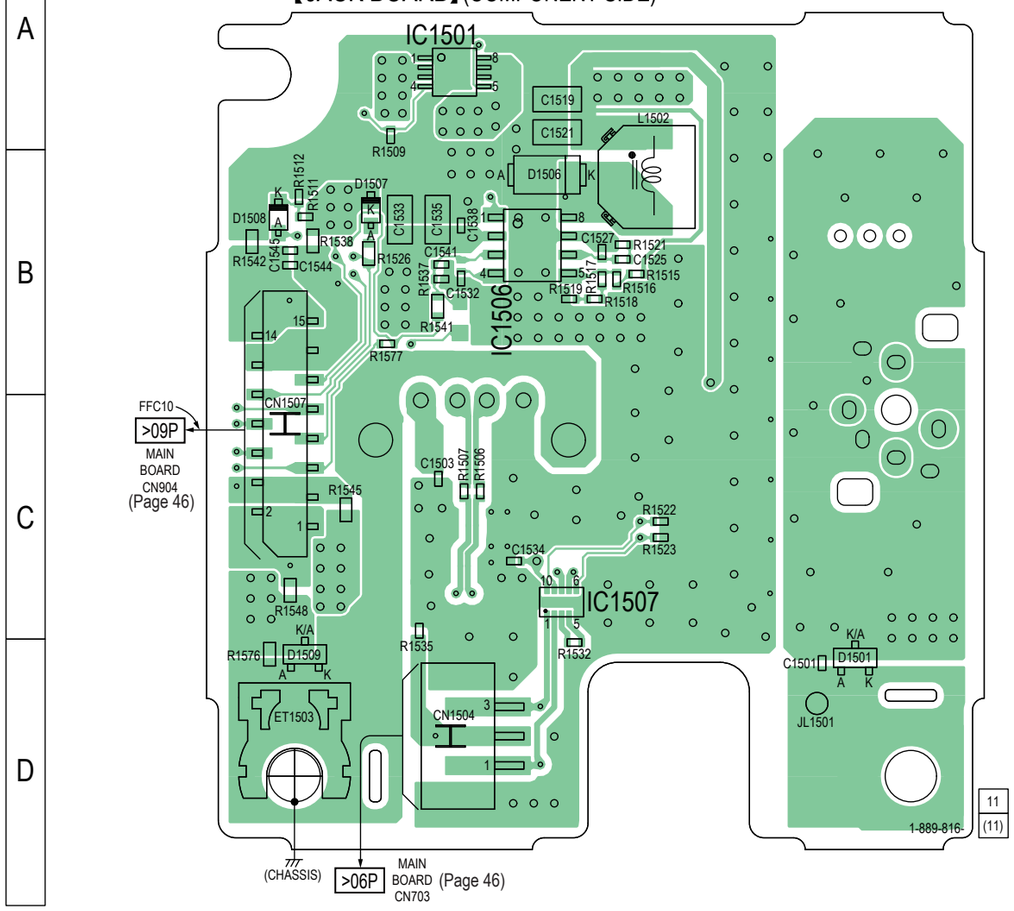


Note: IC907 on the MAIN board cannot replace with single. When this part is damaged, replace the complete mounted board.

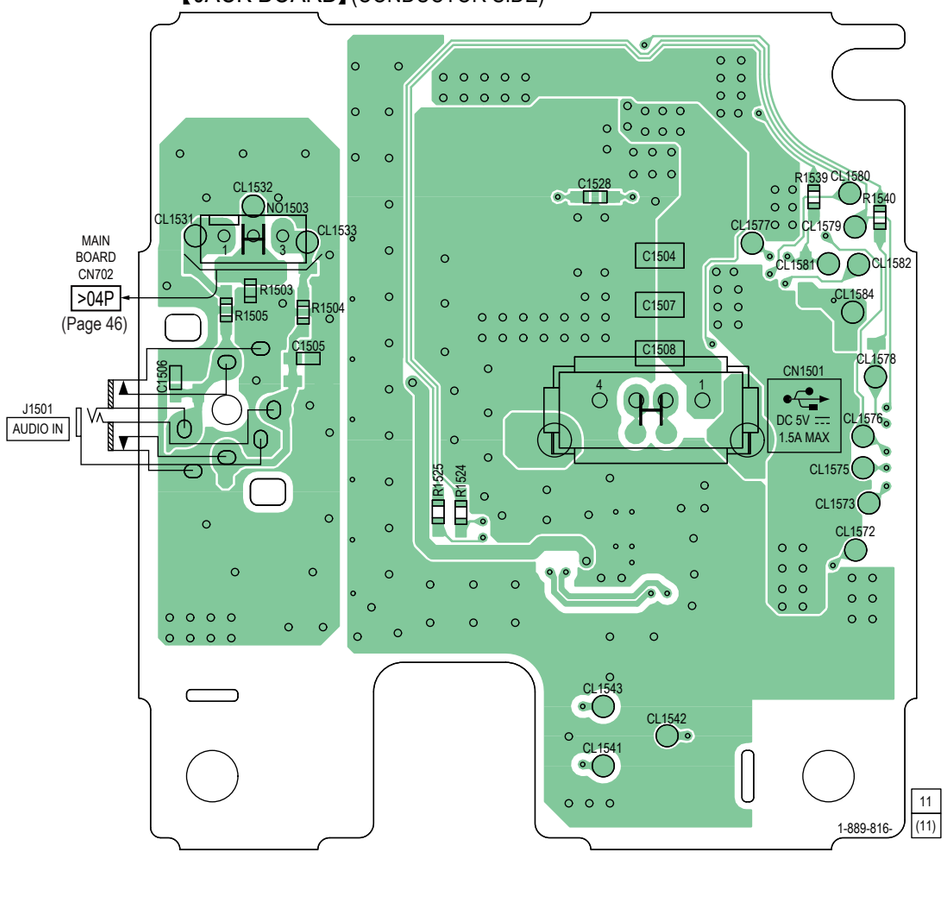
5-14. PRINTED WIRING BOARD - JACK Board (X5CD/X5CDB only) -

• See page 45 for Circuit Boards Location. • : Uses unleaded solder.

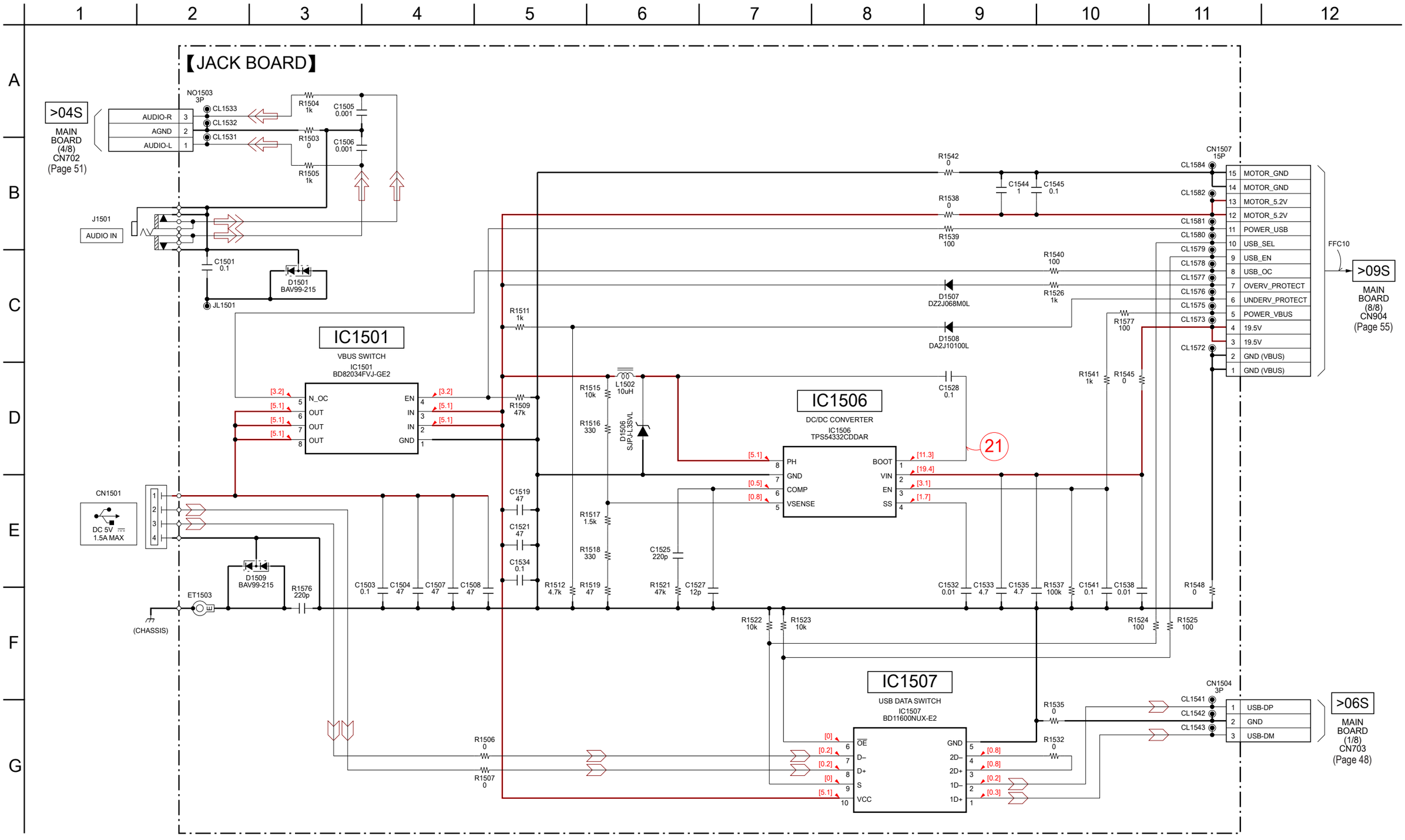
【JACK BOARD】(COMPONENT SIDE)



【JACK BOARD】(CONDUCTOR SIDE)

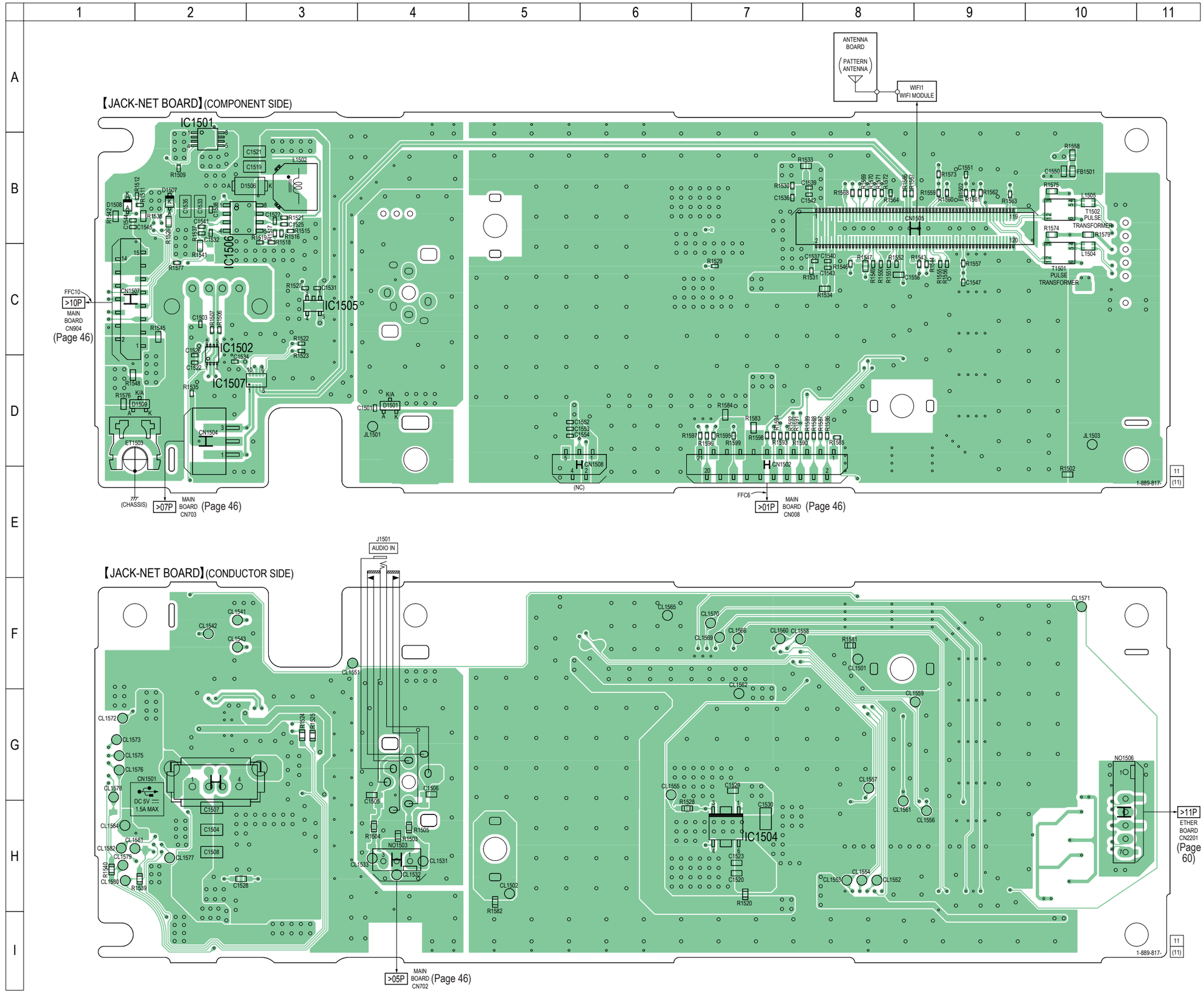


5-15. SCHEMATIC DIAGRAM - JACK Board (X5CD/X5CDB only) - • See page 64 for Waveforms. • See page 64 for IC Block Diagrams.



5-16. PRINTED WIRING BOARDS - NETWORK Section (X7CD/X7CDB only) -

• See page 45 for Circuit Boards Location. • : Uses unleaded solder.

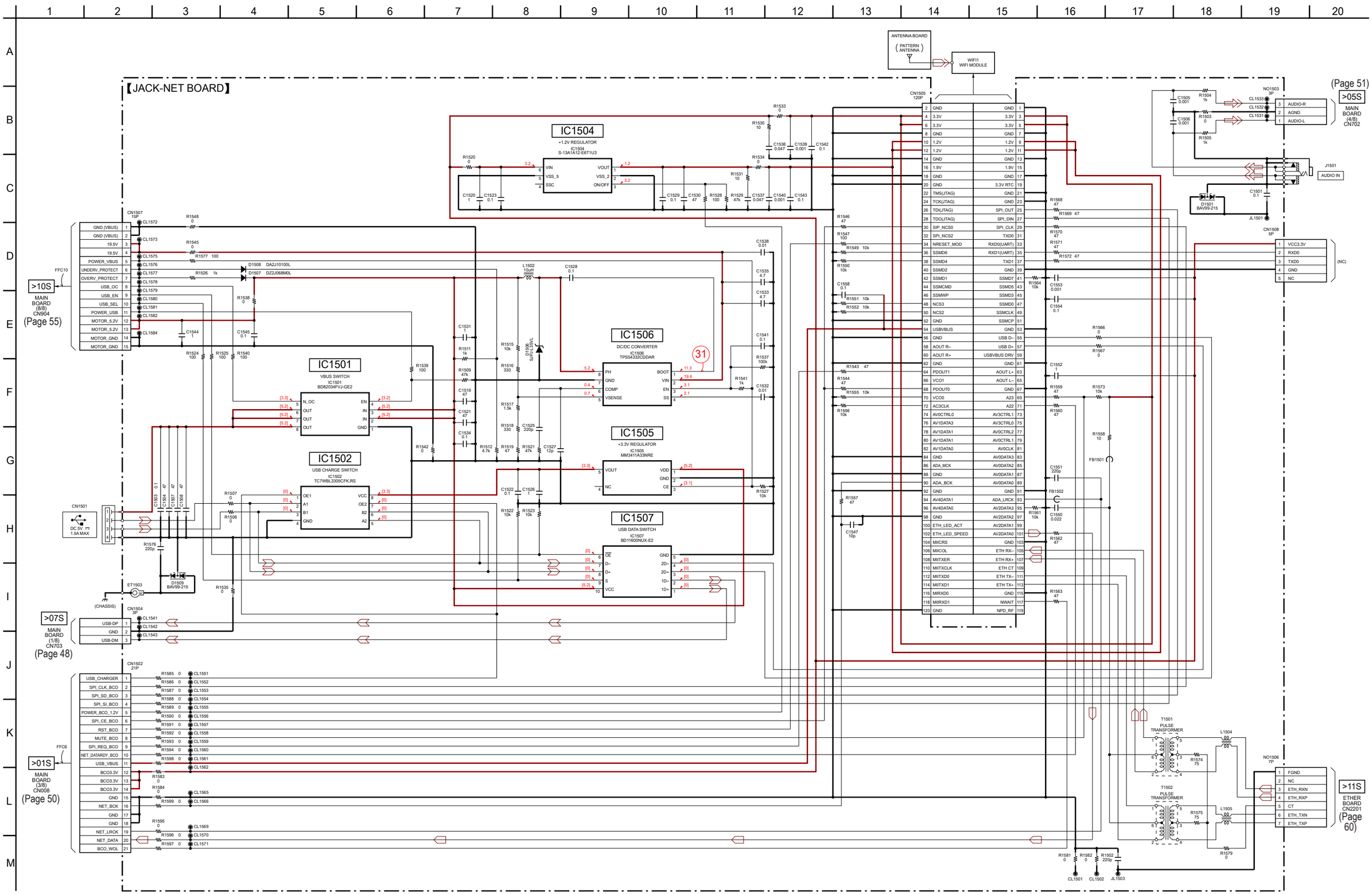


Note 1: CN1505 on the JACK-NET board cannot replace with single. When this part is damaged, replace the complete mounted board.

Note 2: When the ANTENNA board is defective, replace the WIFI ANTENNA 2.4 GHz SVX (Ref. No. ANT1).

Note 3: When the WiFi module (Ref. No. WIFI1) is replaced, refer to “NOTE OF REPLACING THE WiFi MODULE (CMT-X7CD/X7CDB only)”, “PROCESSING OF REPLACING THE WiFi MODULE (CMT-X7CD/X7CDB only)” and “CHECKING METHOD OF NETWORK CONNECTION (CMT-X7CD/X7CDB only)” on page 5.

5-17. SCHEMATIC DIAGRAM - NETWORK Section (X7CD/X7CDB only) - • See page 64 for Waveforms. • See page 64 for IC Block Diagrams.



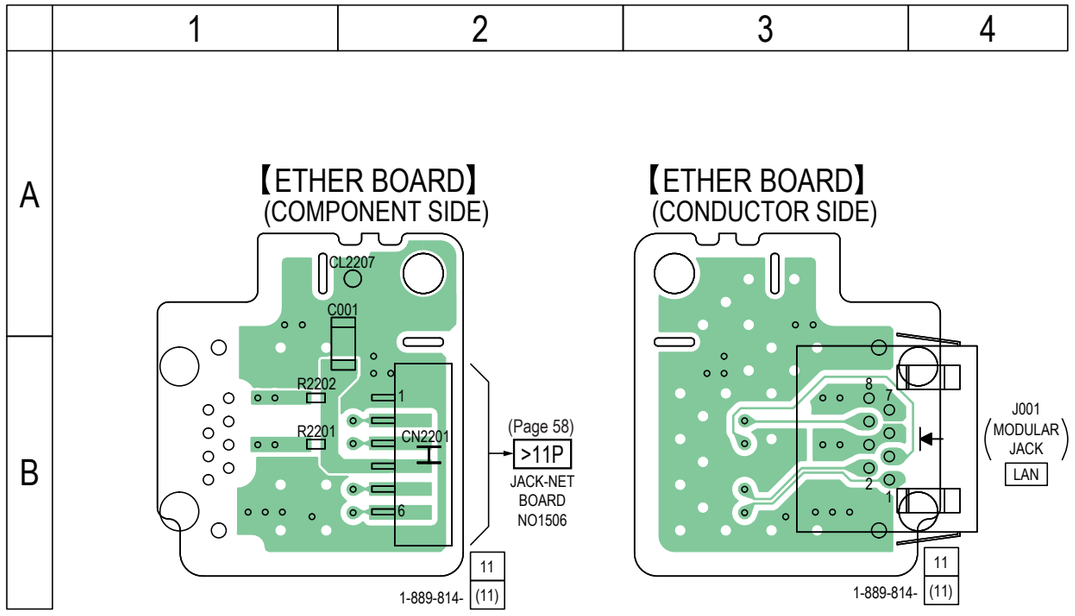
Note 1: CN1505 on the JACK-NET board cannot replace with single. When this part is damaged, replace the complete mounted board.

Note 2: When the ANTENNA board is defective, replace the WIFI ANTENNA 2.4 GHz SVX (Ref. No. ANT1).

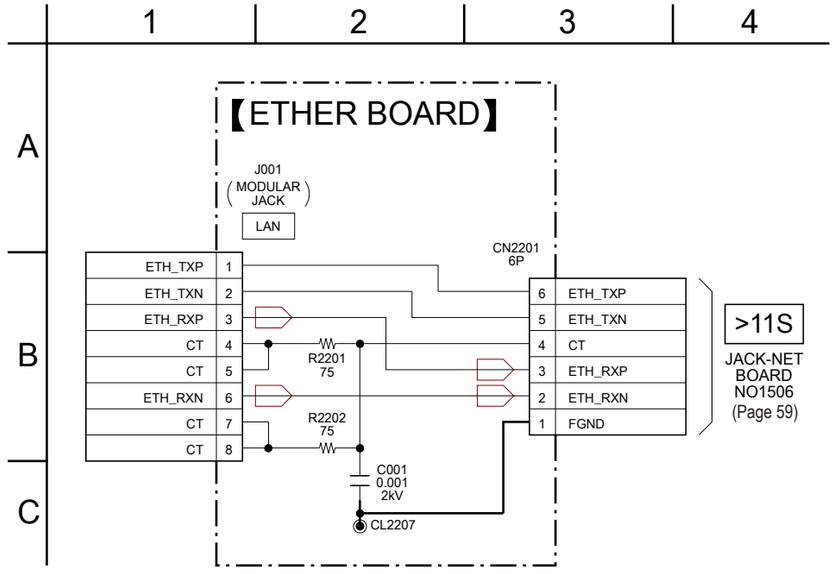
Note 3: When the WiFi module (Ref. No. WIFI1) is replaced, refer to "NOTE OF REPLACING THE WiFi MODULE (CMT-X7CD/X7CDB only)", "PROCESSING OF REPLACING THE WiFi MODULE (CMT-X7CD/X7CDB only)" and "CHECKING METHOD OF NETWORK CONNECTION (CMT-X7CD/X7CDB only)" on page 5.

5-18. PRINTED WIRING BOARD - ETHER Board (X7CD/X7CDB only) -

• See page 45 for Circuit Boards Location. • : Uses unleaded solder.

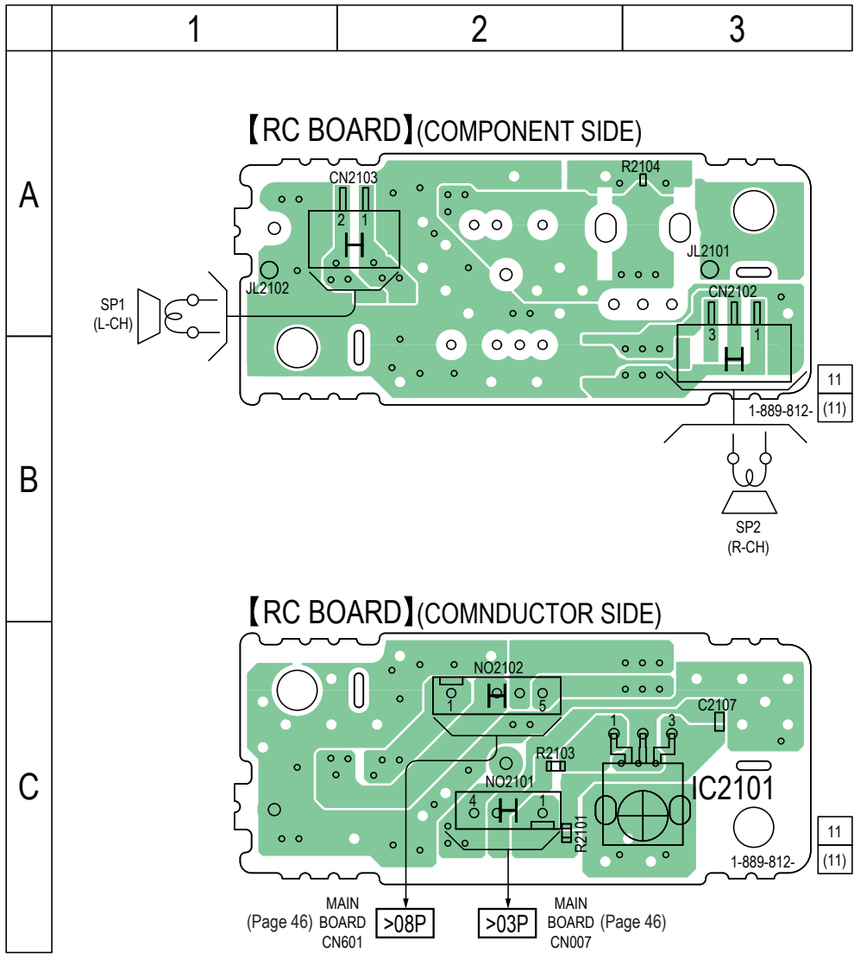


5-19. SCHEMATIC DIAGRAM - ETHER Board (X7CD/X7CDB only) -

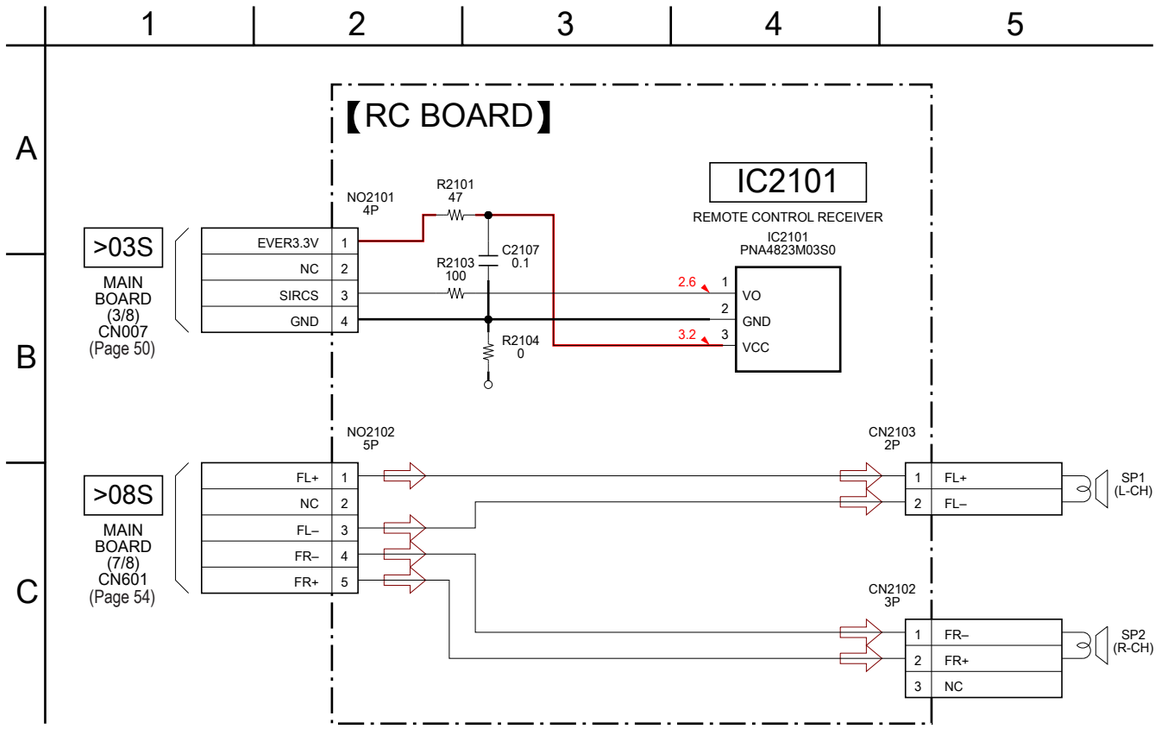


5-20. PRINTED WIRING BOARD - RC Board -

• See page 45 for Circuit Boards Location. • : Uses unleaded solder.



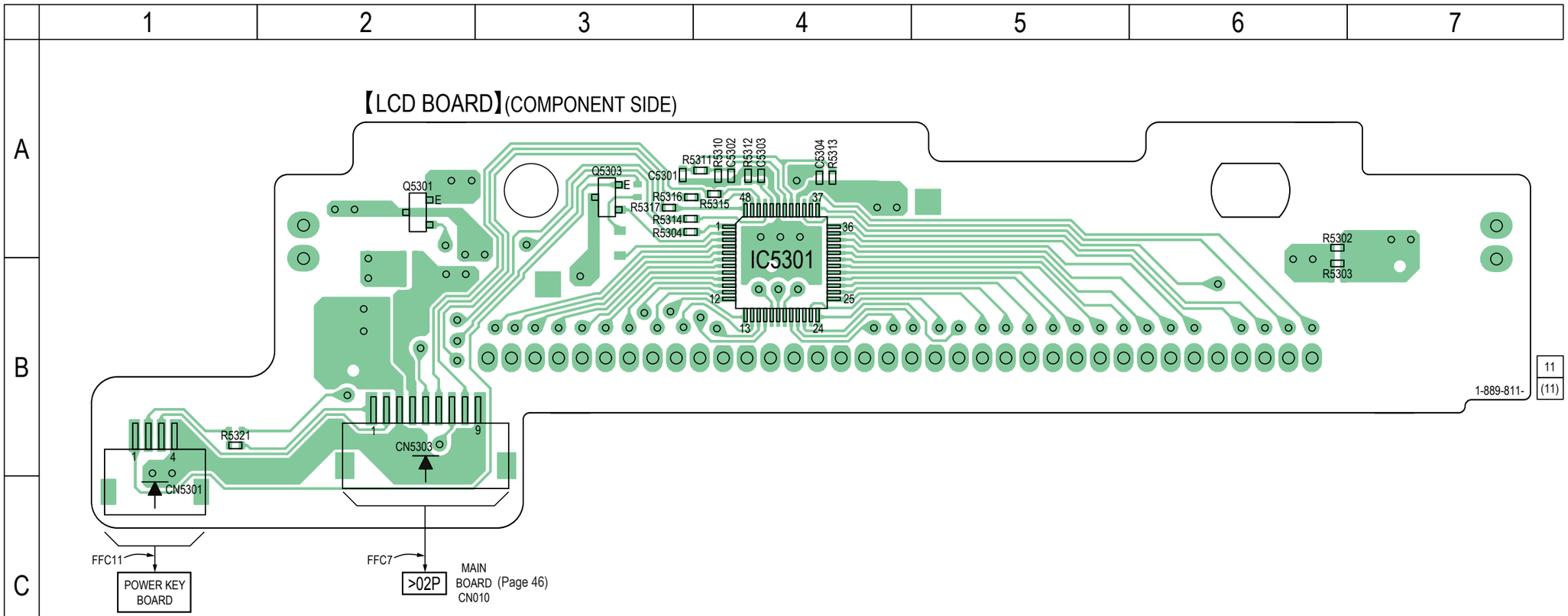
5-21. SCHEMATIC DIAGRAM - RC Board -



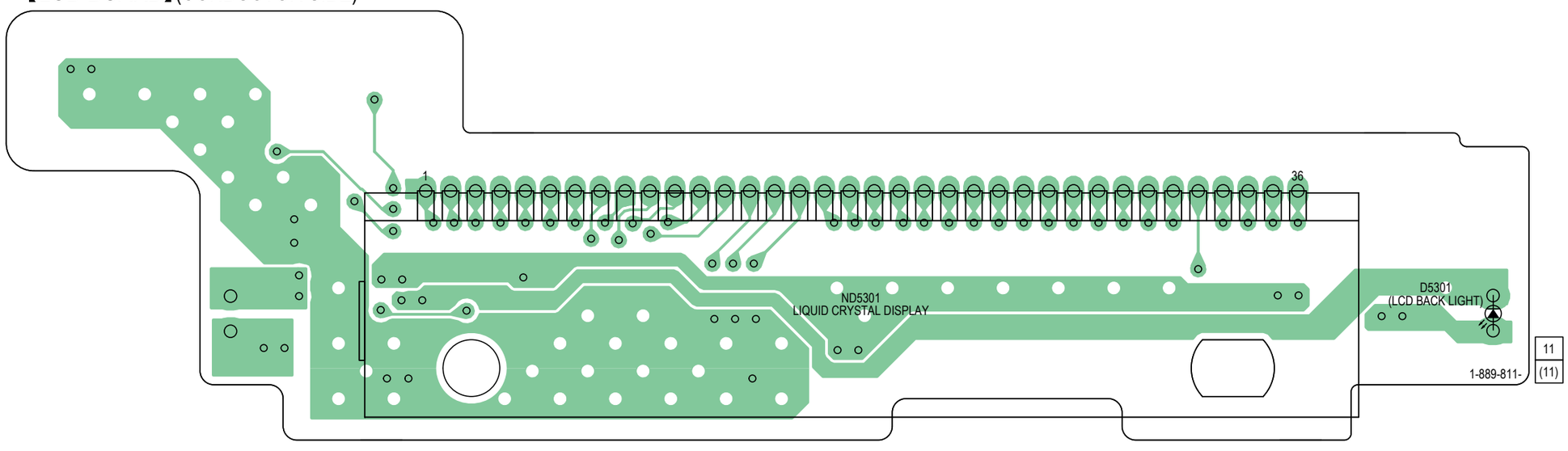
5-22. PRINTED WIRING BOARD - LCD Board -

• See page 45 for Circuit Boards Location. • : Uses unleaded solder.

【LCD BOARD】(COMPONENT SIDE)

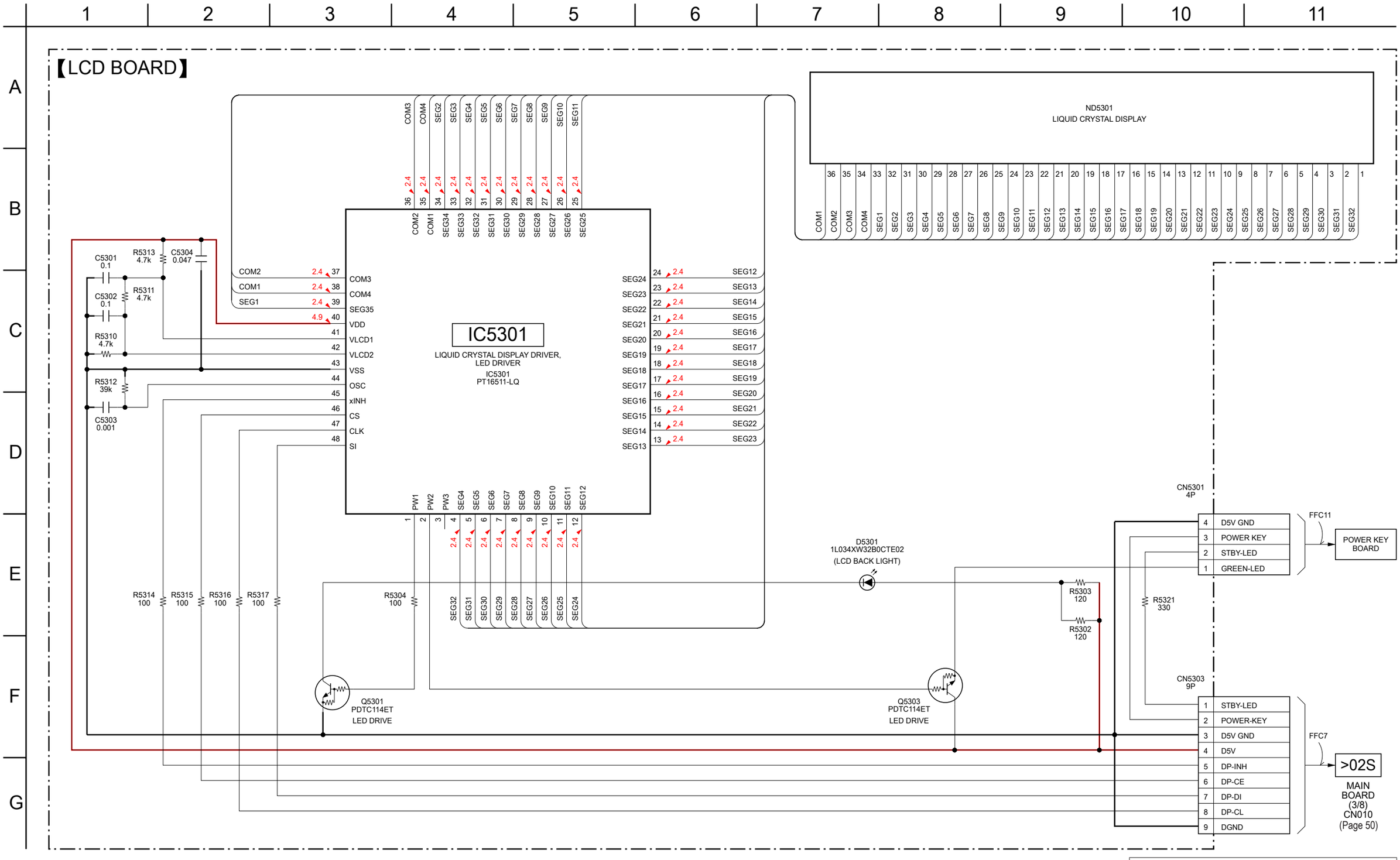


【LCD BOARD】(CONDUCTOR SIDE)



Note: When the POWER KEY board is defective, replace the REAR SVX PANEL (Ref. No. RP1).

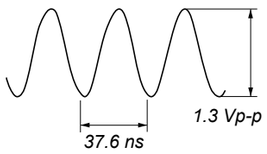
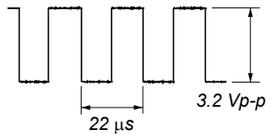
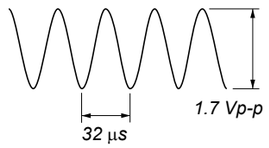
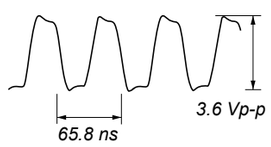
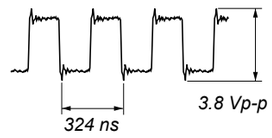
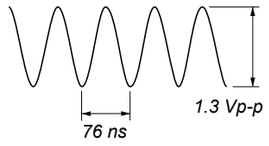
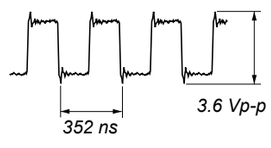
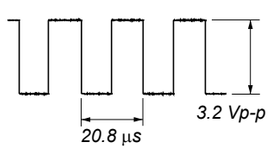
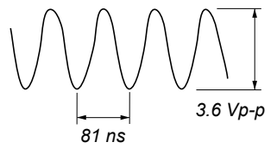
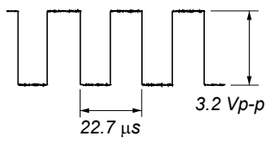
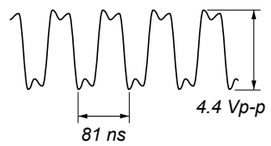
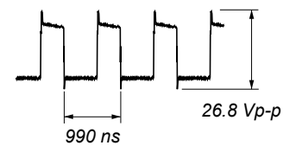
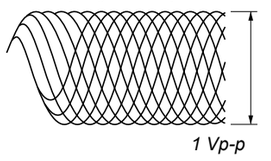
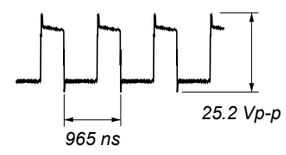
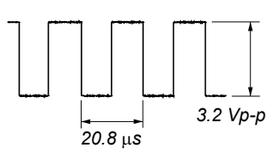
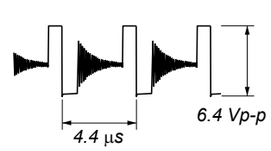
5-23. SCHEMATIC DIAGRAM - LCD Board - • See page 64 for IC Block Diagrams.



Note: When the POWER KEY board is defective, replace the REAR SVX PANEL (Ref. No. RP1).

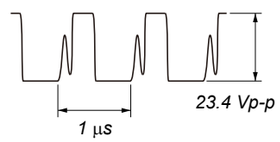
• Waveforms

– MAIN Board –

① **IC503 ⑧ (XTALO)**  *500 mV/DIV, 20 ns/DIV*	⑦ **IC708 ⑨ (3Y)**  *1 V/DIV, 10 µs/DIV*	⑬ **IC204 ㊽ (RTC_X2)**  *500 mV/DIV, 20 µs/DIV*
② **IC503 ⑫ (GPIO)**  *1 V/DIV, 20 ns/DIV*	⑧ **IC710 ⑦ (1Y)**  *1 V/DIV, 200 ns/DIV*	⑭ **IC204 ㊿ (EXTAL)**  *500 mV/DIV, 50 ns/DIV*
③ **IC503 ⑬ (GPIO)**  *1 V/DIV, 200 ns/DIV*	⑨ **IC710 ⑨ (2Y)**  *1 V/DIV, 10 µs/DIV*	⑮ **IC204 ㊾ (AUDIO_X2)**  *1 V/DIV, 50 ns/DIV*
④ **IC503 ⑰ (GPIO)**  *1 V/DIV, 10 µs/DIV*	⑩ **IC204 ⑭ (I2S_DAMP_DAC_MCLK)**  *1 V/DIV, 50 ns/DIV*	⑯ **IC902 ① (BOOT)**  *10 V/DIV, 500 ns/DIV*
⑤ **IC503 ㉓ (RFIP) (CD play mode)**  *200 mV/DIV, 200 ns/DIV*	⑪ **IC204 ㉙ (I2S_BCK_DAC)**  *1 V/DIV, 200 ns/DIV*	⑰ **IC903 ① (BOOT)**  *10 V/DIV, 500 ns/DIV*
⑥ **IC708 ⑦ (2Y)**  *1 V/DIV, 200 ns/DIV*	⑫ **IC204 ㉚ (I2S_LRCK_DAC)**  *1 V/DIV, 10 µs/DIV*	⑱ **IC907 ⑬ (BOOT)**  *2 V/DIV, 2 µs/DIV*

– JACK Board –

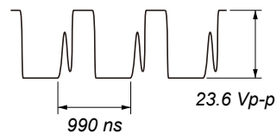
㉑ **IC1506 ① (BOOT)**



5 V/DIV, 500 ns/DIV

– JACK-NET Board –

㉛ **IC1506 ① (BOOT)**

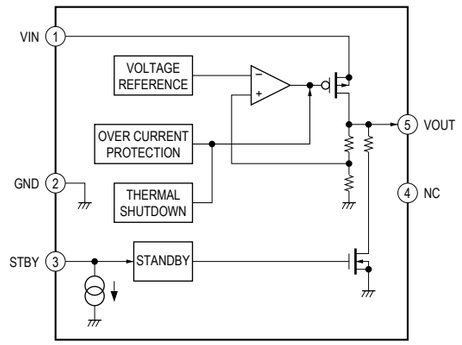


10 V/DIV, 500 ns/DIV

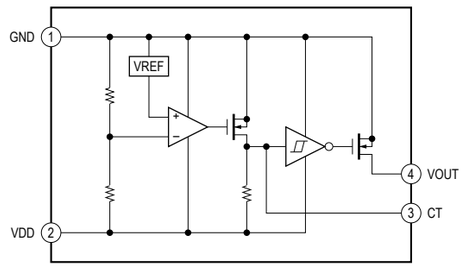
• IC Block Diagrams

– MAIN Board –

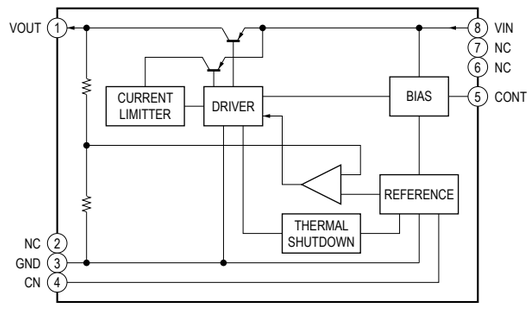
IC005, 601, 707 BU33TD3WG-TR



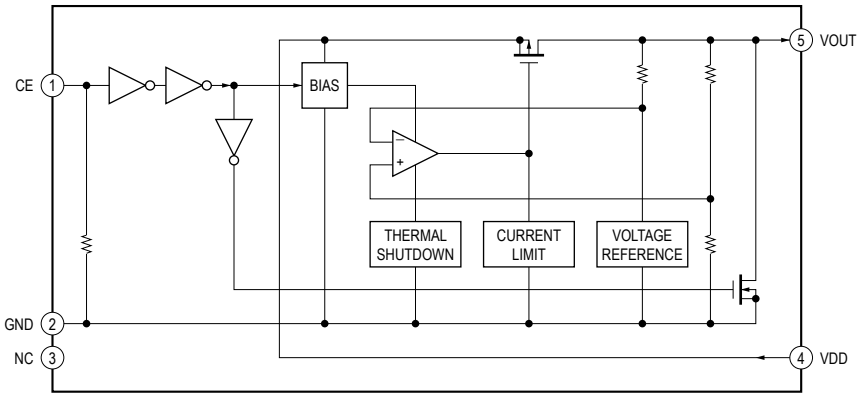
IC205 BU4229F-TR



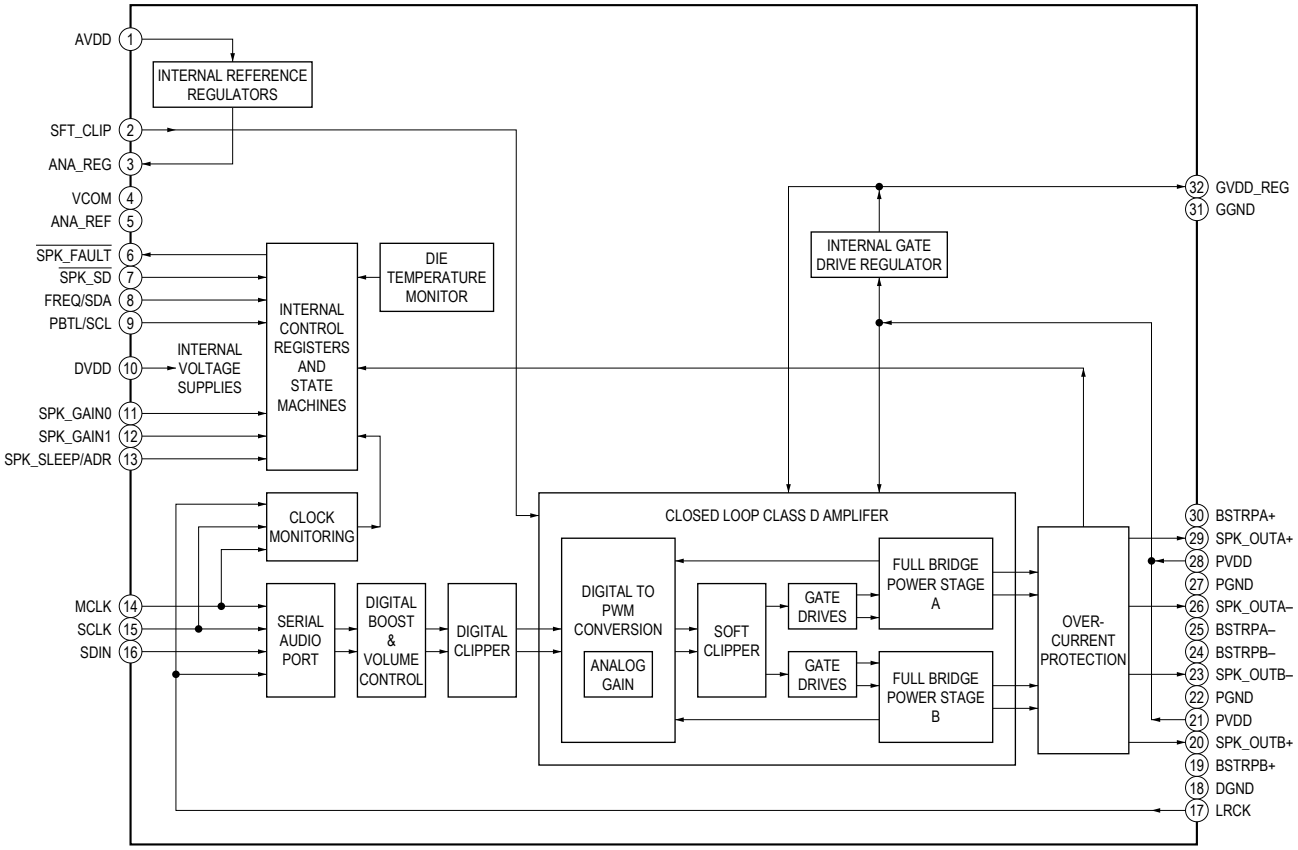
IC501 MM1701CHBE



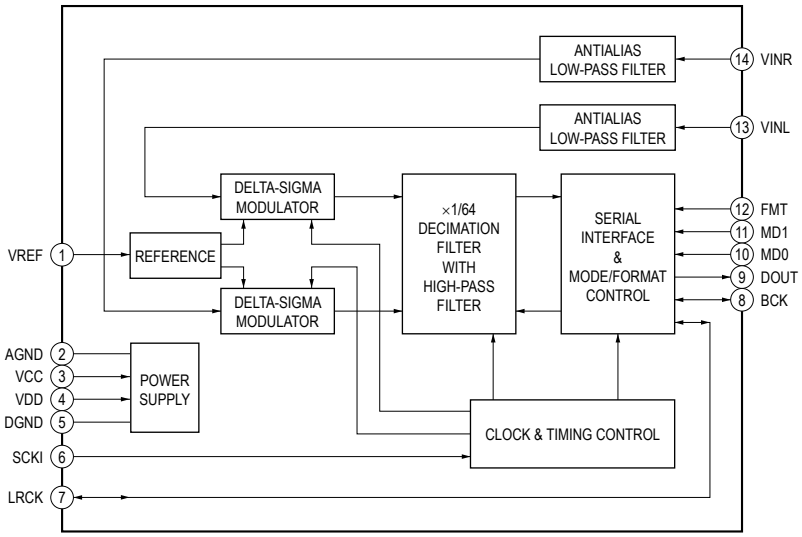
IC505, 905 MM3374A33PRE



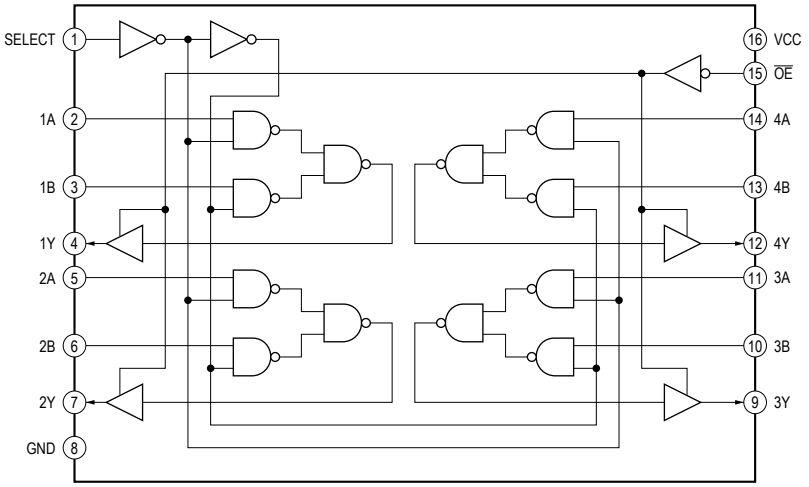
IC602 TAS5760MDAPR



IC706 PCM1808PWR



IC708 TC74VHC257FT (EL)



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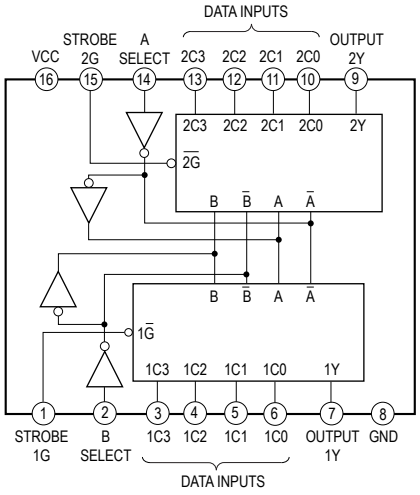
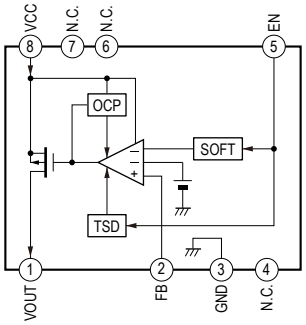
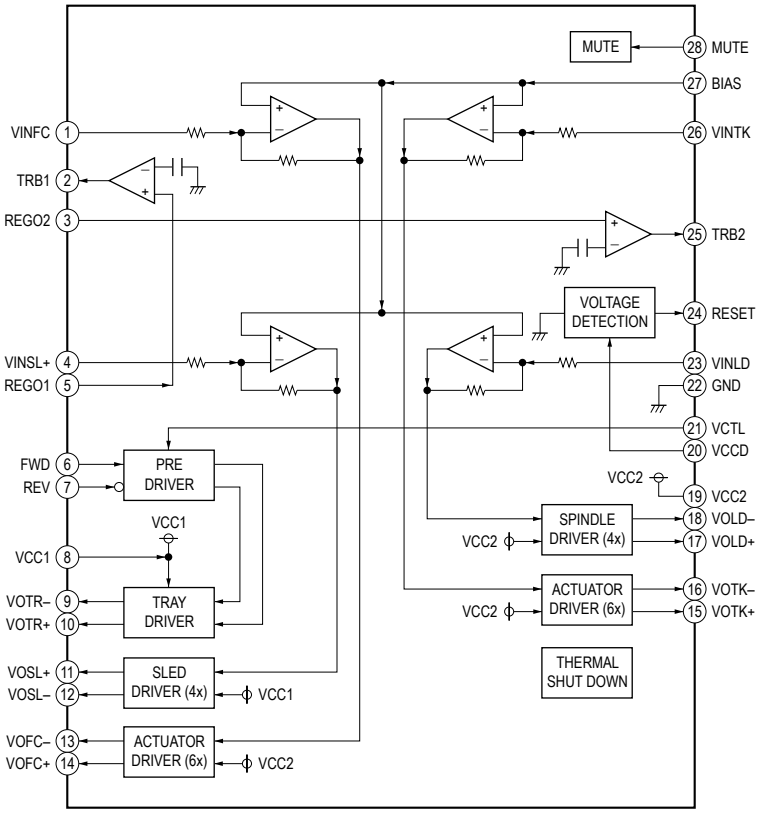


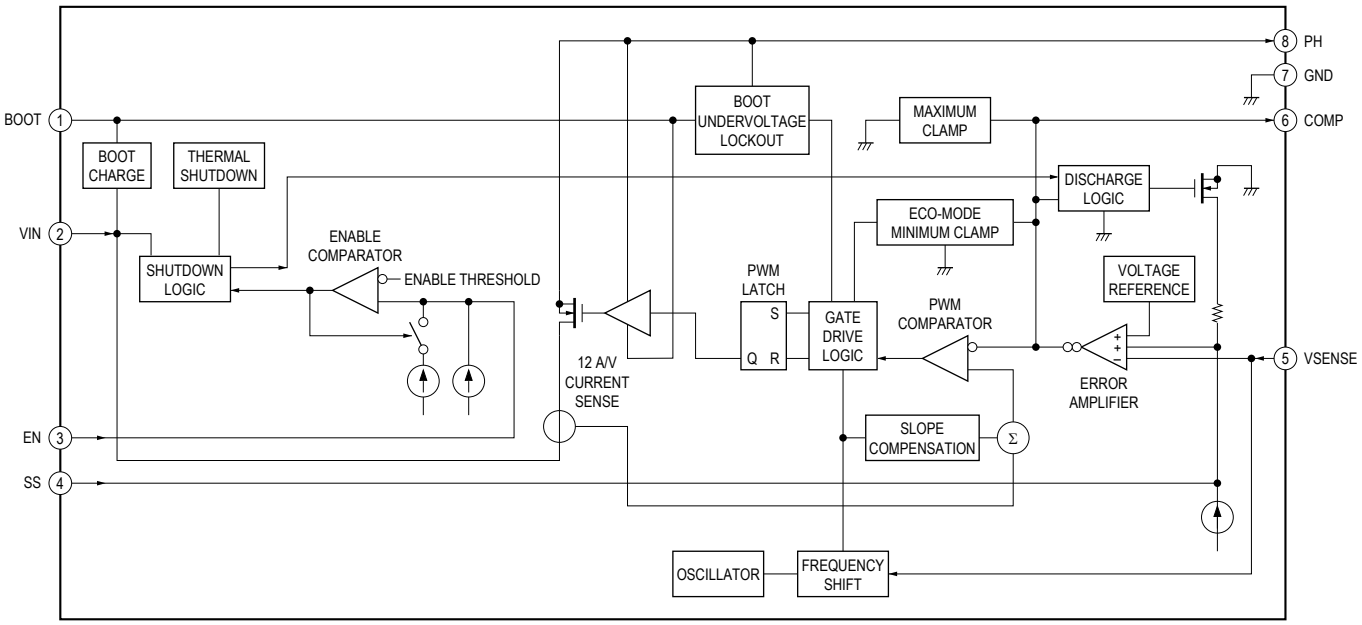
IC851 BD00GA3WEFJ-E2



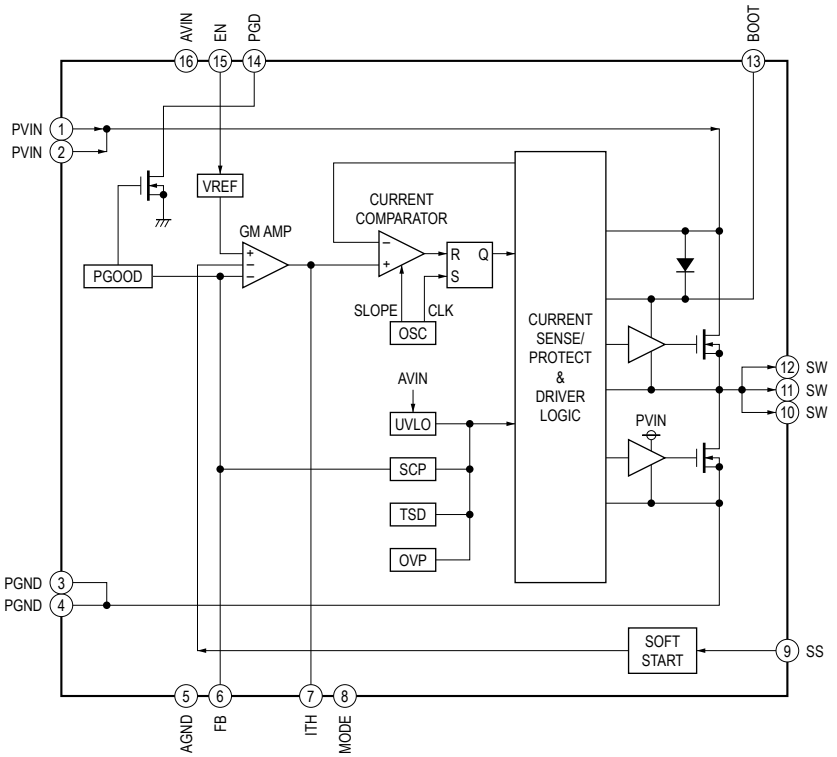
IC852 AM5890S



IC902, 903 TPS54332CDDAR

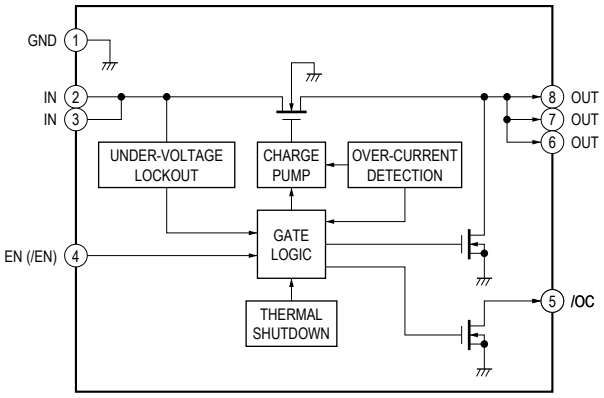


IC907 BD9A100MUV-E2

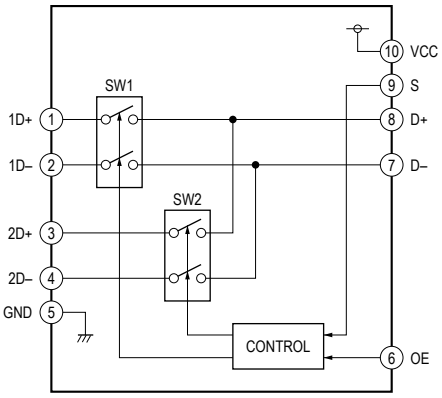


– JACK Board –

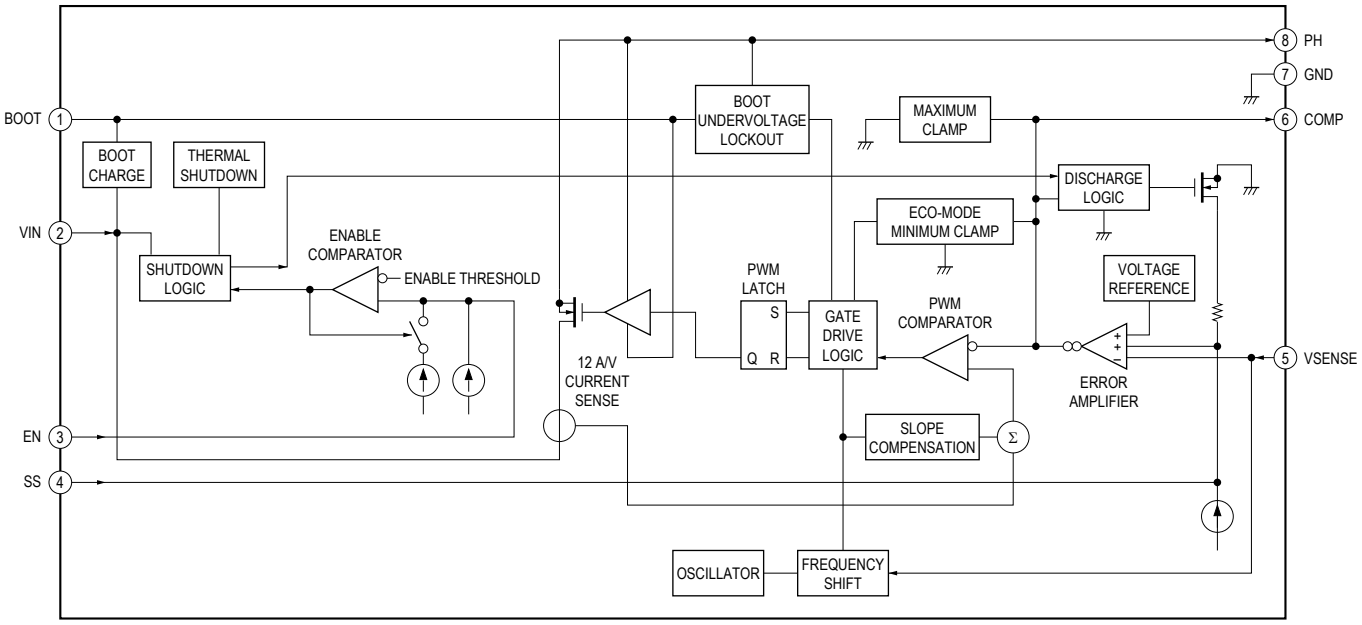
IC1501 BD82034FVJ-GE2



IC1507 BD11600NUX-E2



IC1506 TPS54332CDDAR



– JACK-NET Board –

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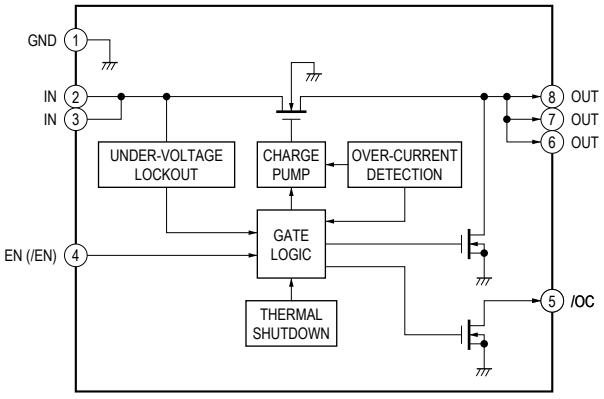
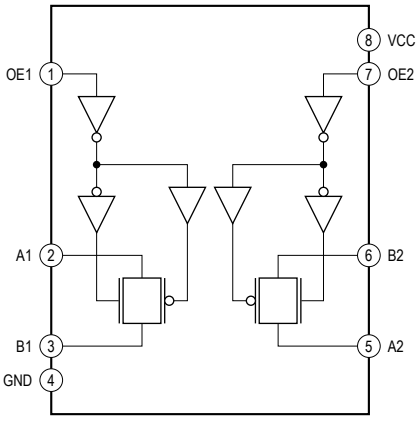
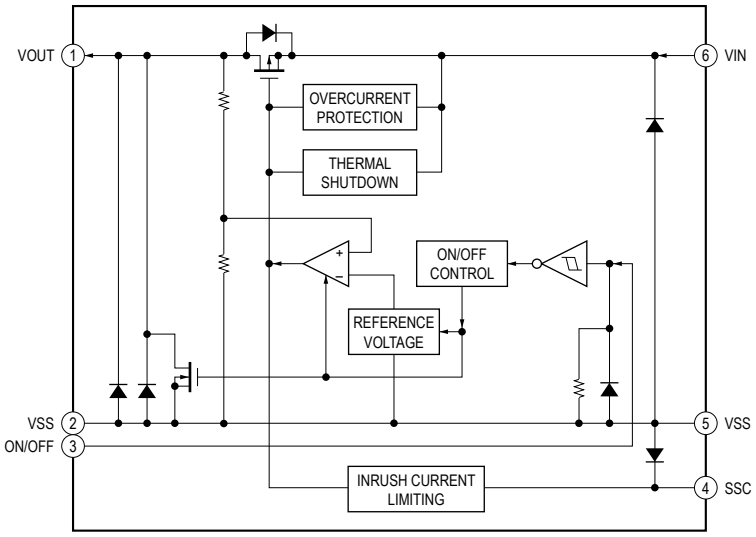


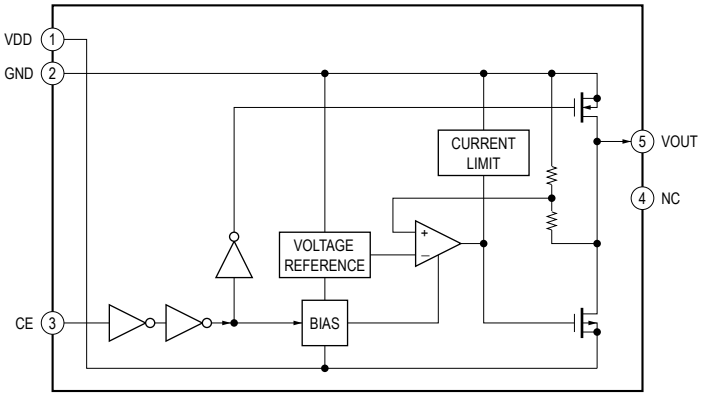
IC1502 TC7WBL3305CFK, RS



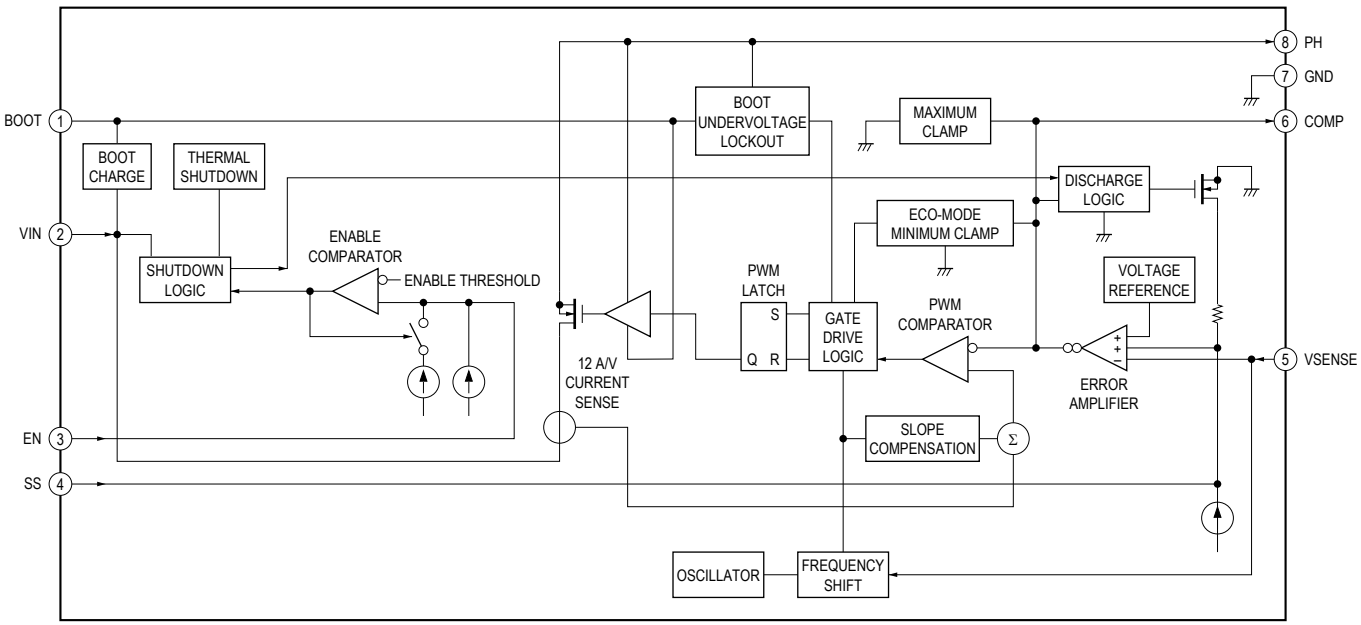
IC1504 S-13A1A12-E6T1U3



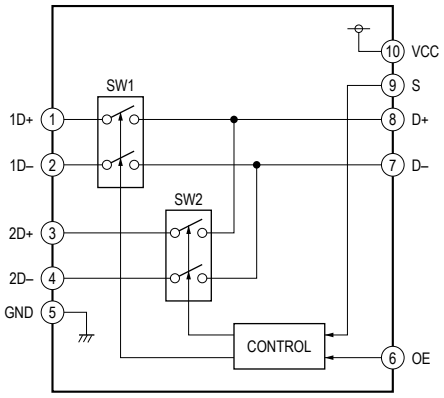
IC1505 MM3411A33NRE



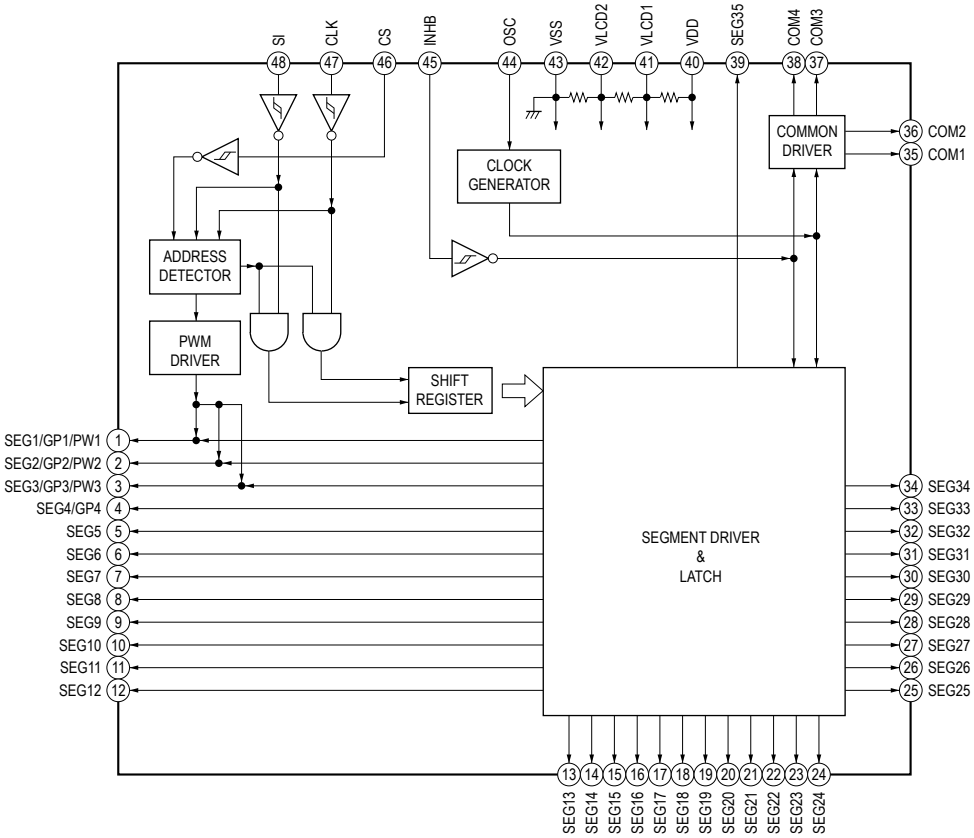
IC1506 TPS54332CDDAR



IC1507 BD11600NUX-E2



– LCD Board –
IC5301 PT16511-LQ



• **IC Pin Function Description**

MAIN BOARD IC204 R7S7200032CFP (AUDIO DSP, SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	RDS_INT/ DAB_POW_V33	I/O	RDS interrupt signal input from the TUNER board (CMT-X5CD/X7CD) +3.3V power on/off control signal output to the DAB board for the DAB tuner section “H”: power on (CMT-X5CDB/X7CDB)
2	SPI_CLK_BCO	O	Serial data transfer clock signal output to the WiFi module (CMT-X7CD/X7CDB only)
3	SPI_CS_BCO	O	Chip select signal output to the WiFi module (CMT-X7CD/X7CDB only)
4	SPI_DO_BCO	O	Serial data output to the WiFi module (CMT-X7CD/X7CDB only)
5	SPI_DI_BCO	I	Serial data input from the WiFi module (CMT-X7CD/X7CDB only)
6	NFC_RFDET	I	RF detection signal input from the NFC module
7	VCC	-	Power supply terminal (+1.2V)
8	BT_MUTE	I	Muting control signal input from the Bluetooth module
9	VSS	-	Ground terminal
10	BCO_WOL	I	Wake on LAN signal input from the WiFi module (CMT-X7CD/X7CDB only)
11	PVCC	-	Power supply terminal (+3.3V)
12	BCO_REQ	I	Request signal input from the WiFi module (CMT-X7CD/X7CDB only)
13	BCO_DATA_READY	I	Ready signal input from the WiFi module (CMT-X7CD/X7CDB only)
14	I2S_DAMP_ DAC_MCLK	O	Master clock signal output to the digital power amplifier
15	DAMP_CARRIER/ DAB_RX	I/O	Frequency selection signal output to the digital power amplifier (CMT-X5CD/X7CD) Serial data input from the DAB board (CMT-X5CDB/X7CDB)
16	5V_ON/DAB_TX	O	Power on/off control signal output terminal “H”: power on (CMT-X5CD/X7CD) Serial data output to the DAB board (CMT-X5CDB/X7CDB)
17	MTK-CLK	I	Serial data transfer clock signal input from the servo/audio processor
18	VSS	-	Ground terminal
19	MTK-CS	O	Chip select signal output to the servo/audio processor
20	MTKIC-DOUT	I	Serial data input from the servo/audio processor
21	VCC	-	Power supply terminal (+1.2V)
22	MTKIC-DIN	O	Serial data output to the servo/audio processor
23	VSS	-	Ground terminal
24	I2S_BCK_DSEL1	I	Bit clock signal input terminal
25	PVCC	-	Power supply terminal (+3.3V)
26	I2S_LRCK_DSEL1	I	L/R sampling clock signal input terminal
27	CDM-RVS	O	Loading motor drive signal output to the optical pick-up block (reverse direction)
28	I2S_DI_DSEL	I	Audio data input terminal
29	I2S_BCK_DAC	O	Bit clock signal output to the digital power amplifier
30	I2S_LRCK_DAC	O	L/R sampling clock signal output to the digital power amplifier
31	VSS	-	Ground terminal
32	I2S_DAMP_ DAC_SDA	O	Audio data output to the digital power amplifier
33	I2S_RECOUT	O	Audio data output terminal Not used
34	VCC	-	Power supply terminal (+1.2V)
35	DP-CL	O	Serial data transfer clock signal output to the liquid crystal display driver
36	VSS	-	Ground terminal
37	CKIO	-	Not used
38	DP-CE	O	Chip select signal output to the liquid crystal display driver
39	PVCC	-	Power supply terminal (+3.3V)
40	DP-DI	O	Serial data output to the liquid crystal display driver
41	TP-RESET	O	Reset signal output to the TOUCH KEY board “L”: reset
42	ASEL_A	O	External input analog audio selection signal output terminal Not used
43	UART_TxD_BT	O	Serial data output to the Bluetooth module
44	ASEL_B	O	External input analog audio selection signal output terminal Not used
45	DSEL_A	O	External input digital audio and clock signal selection signal output terminal
46	VSS	-	Ground terminal
47	DSEL_B	O	External input digital audio and clock signal selection signal output terminal
48	MTK_BUSY	O	Busy signal output to the servo/audio processor
49	UART_CTS_BT	I	Clear to send signal input from the Bluetooth module
50	PVCC	-	Power supply terminal (+3.3V)
51	UART_RTS_BT	O	Return to send signal output to the Bluetooth module

Pin No.	Pin Name	I/O	Description
52	DSEL_C	O	External input digital audio and clock signal selection signal output terminal (CMT-X7CD/X7CDB only)
53	USB_CHARGER	O	USB charge on/off control signal output terminal "H": charge on (CMT-X7CD/X7CDB only)
54	RESET_MTK	O	Reset signal output to the servo/audio processor "L": reset
55	USB-SEL	O	USB data selection signal output terminal
56	KEY_WAKE	I	Power key input terminal
57	USB_OC	I	USB VBUS power over current detection signal input terminal
58	VCC	-	Power supply terminal (+1.2V)
59	TUNER POWER/ DAB_POW_V12	O	Power on/off control signal output to the TUNER board for the tuner section "H": power on (CMT-X5CD/X7CD) +1.2V power on/off control signal output to the DAB board for the DAB tuner section "H": power on (CMT-X5CDB/X7CDB)
60	POWER_BCO	O	Power on/off control signal output terminal for the network section "H": power on (CMT-X7CD/X7CDB only)
61	VSS	-	Ground terminal
62	PVCC	-	Power supply terminal (+3.3V)
63, 64	MD_BOOT0, MD_BOOT1	-	Not used
65	MD_CLK	-	Not used
66	MD_CLKS	-	Not used
67	RTC_X1	I	System clock input terminal (32.768 kHz)
68	RTC_X2	O	System clock output terminal (32.768 kHz)
69	PLLVCC	-	Power supply terminal (+1.2V)
70	EXTAL	I	System clock input terminal (13.333 MHz)
71	XTAL	O	System clock output terminal (13.333 MHz)
72, 73	VSS	-	Ground terminal
74	NMI	I	Non-maskable interrupt signal input terminal Not used
75	VSS	-	Ground terminal
76	RES	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 change to "H"
77	PVCC	-	Power supply terminal (+3.3V)
78	MODEL-IN	I	Model setting terminal
79	POWER_MONITOR	I	Power monitor terminal
80	DEST_IN	I	Destination setting terminal
81	SPK-PROTECT	I	Fault signal input from the digital power amplifier "L": fault Speaker DC detection signal input terminal "L": protect
82	WiFi_CH	I	WiFi channel selection signal input terminal "L": 1−13 ch, "H": 1−11 ch
83	CDM_LOAD_ END_SW	I	Loading end detection switch input terminal
84	CDM_UNLOAD_ END_SW	I	Unloading end detection switch input terminal
85	CDM_LOAD_SW	I	Loading detection switch input terminal
86	AVCC	-	Power supply terminal (+3.3V)
87	AVSS	-	Ground terminal
88	AVREF	I	Reference voltage (+3.3V) input terminal
89	BSCANP	-	Not used
90	PVCC	-	Power supply terminal (+3.3V)
91	AUDIO_X1	I	System clock input terminal (12.288 MHz)
92	AUDIO_X2	O	System clock output terminal (12.288 MHz)
93	VSS	-	Ground terminal
94	POWER-AMP	O	Power on/off control signal output terminal for amplifier section "H": power on
95	VCC	-	Power supply terminal (+1.2V)
96	NFC_DATA/ POWER_BCO1.2	O	Serial data output to the NFC module (CMT-X5CD/X5CDB) Power on/off control signal output terminal for the network section "H": power on (CMT-X7CD/X7CDB)
97	TRST	I	Test reset signal input terminal (for JTAG)
98	TDO	O	Test data output terminal (for JTAG)
99	TDI	I	Test data input terminal (for JTAG)
100	TMS	I	Test mode selection signal input terminal (for JTAG)
101	TCK	I	Test clock signal input terminal (for JTAG)
102	VSS	-	Ground terminal
103	NFC_SW	O	Standby control signal output to the NFC module

Pin No.	Pin Name	I/O	Description
104	SD_D3/NFC_IRQ	I	Interrupt request signal input from the NFC module (CMT-X7CD/X7CDB only)
105	VCC	-	Power supply terminal (+1.2V)
106	SD CMD	-	Not used
107	VSS	-	Ground terminal
108	NFC_SPI_CLK	O	Serial data transfer clock signal output to the NFC module
109	PVCC	-	Power supply terminal (+3.3V)
110	SD_D0/NFC_DATA	O	Serial data output to the NFC module (CMT-X7CD/X7CDB only)
111	SD_D1/NFC_SEL	O	Data read/write control signal output to the NFC module (CMT-X7CD/X7CDB only)
112	SD_WP	-	Not used
113	SD_CD	-	Not used
114	USB_EN	O	USB data enable signal output terminal
115	UART_TXD_DEBUG	O	Serial data output terminal for flash writing Not used
116	VSS	-	Ground terminal
117	UART_RxD_DEBUG	I	Serial data input terminal for flash writing Not used
118	DP-INH	O	Display on/off control signal output to the liquid crystal display driver "H": display on
119	VCC	-	Power supply terminal (+1.2V)
120	DAMP_PDN	O	Power down control signal output to the digital power amplifier "L": power down
121	VSS	-	Ground terminal
122	RESET_CP	O	Reset signal output to the MFI "L": reset
123	PVCC	-	Power supply terminal (+3.3V)
124	DAMP_MUTE	O	Muting control signal output to the digital power amplifier
125	I2C_SCL_CP	I/O	Two-way I2C clock signal bus with the MFI
126	I2C_SDA_CP	I/O	Two-way I2C data bus with the MFI
127	I2C_SCL_TU/5V_ON	I/O	Two-way I2C clock signal bus with the TUNER board (CMT-X5CD/X7CD) Power on/off control signal output terminal "H": power on (CMT-X5CDB/X7CDB)
128	I2C_SDA_TU/ DAMP_CARRIER	I/O	Two-way I2C data bus with the TUNER board (CMT-X5CD/X7CD) Frequency selection signal output to the digital power amplifier (CMT-X5CDB/X7CDB)
129	TP-SCL	I/O	Two-way I2C clock signal bus with the TOUCH KEY board
130	TP-SDA	I/O	Two-way I2C data bus with the TOUCH KEY board
131	TP-INT	I	Interrupt signal input from the TOUCH KEY board
132	UART_RxD_BT	I	Serial data input from the Bluetooth module
133	CDM-FWD	O	Loading motor drive signal output to the optical pick-up block (forward direction)
134	RESET_BT	O	Reset signal output to the Bluetooth module "L": reset
135	SIRCS	I	SIRCS signal input from remote control receiver
136	STDBY_LED	O	LED drive signal output terminal for the standby indicator "H": LED on
137	AC_CUT	I	AC cut on/off detection signal input terminal "L": AC cut on
138	VSS	-	Ground terminal
139	USB_X1	I	System clock input terminal Not used
140	USB_X2	O	System clock output terminal Not used
141	USBDPVCC	-	Power supply terminal (+3.3V)
142	USBDPVSS	-	Ground terminal
143	DM1	I/O	Two-way USB data (–) bus terminal Not used
144	DP1	I/O	Two-way USB data (+) bus terminal Not used
145	VBUSIN1	I	USB VBUS power input terminal Not used
146	USBDVCC	-	Power supply terminal (+1.2V)
147	USBDVSS	-	Ground terminal
148	USBDPVCC	-	Power supply terminal (+3.3V)
149	USBDPVSS	-	Ground terminal
150	DM0	I/O	Two-way USB data (–) bus terminal Not used
151	DP0	I/O	Two-way USB data (+) bus terminal Not used
152	VBUSIN0	I	USB VBUS power input terminal Not used
153	USBDVCC	-	Power supply terminal (+1.2V)
154	USBDVSS	-	Ground terminal
155	REFRIN	I	Reference voltage input terminal Not used
156	USBAPVSS	-	Ground terminal
157	USBAPVCC	-	Power supply terminal (+3.3V)
158	USBAVCC	-	Power supply terminal (+1.2V)
159	USBAVSS	-	Ground terminal
160	USBUVCC	-	Power supply terminal (+1.2V)
161	USBUVSS	-	Ground terminal

Pin No.	Pin Name	I/O	Description
162, 163	VSS	-	Ground terminal
164	POWER_BT	O	Power on/off control signal output terminal for the Bluetooth section "H": power on
165	POWER_USB	O	USB VBUS power on/off control signal output terminal "H": power on
166	QSPI_D2	O	Write protect signal output to the serial flash
167	QSPI_D3	O	Hold signal output to the serial flash
168	QSPI_CLK	O	Serial data transfer clock signal output to the serial flash
169	QSPI_CS	O	Chip select signal output to the serial flash
170	QSPI_D0	O	Serial data output to the serial flash
171	VSS	-	Ground terminal
172	QSPI_D1	I	Serial data input from the serial flash
173	POWER-ON	O	Main power on/off control signal output terminal "H": power on
174	PVCC	-	Power supply terminal (+3.3V)
175	NFC_SEL/ RESET_BCO	O	Data read/write control signal output to the NFC module (CMT-X5CD/X5CDB) Reset signal output to the WiFi module "L": reset (CMT-X7CD/X7CDB)
176	NFC_IRQ/ BCO_MUTE	I	Interrupt request signal input from the NFC module (CMT-X5CD/X5CDB) Muting control signal input from the WiFi module (CMT-X7CD/X7CDB)

MAIN BOARD IC503 CXD90013R (RF AMP, SERVO/AUDIO PROCESSOR)

Pin No.	Pin Name	I/O	Description
1	RFC	I	RF main beam (A) input from the optical pick-up block
2	RFD	I	RF main beam (D) input from the optical pick-up block
3	RFE	I	RF sub beam (F) input from the optical pick-up block
4	RFF	I	RF sub beam (E) input from the optical pick-up block
5	AVDD12_2	-	Power supply terminal (+1.2V) (analog system)
6	AVDD33_1	-	Power supply terminal (+3.3V) (analog system)
7	XTALI	I	System clock input terminal (27 MHz)
8	XTALO	O	System clock output terminal (27 MHz)
9	AGND33	-	Ground terminal (analog system)
10	V20	O	Reference voltage (+2V) output to the optical pick-up block
11	V14	O	Reference voltage (+1.4V) output to the coil/motor driver
12	REXT	I	External resistor connection terminal
13	MDI1	I	Laser power monitor input from the optical pick-up block
14	LDO1	O	Laser diode drive signal output to the optical pick-up block (for CD)
15	LDO2	O	Laser diode drive signal output to the optical pick-up block (for DVD)
16	AVDD33_2	-	Power supply terminal (+3.3V) (analog system)
17	DMO	O	Spindle motor control signal output to the coil/motor driver
18	FMO	O	Sled motor control signal output to the coil/motor driver
19	TRAY_OPEN	O	Variable resistor control signal output to the optical pick-up block (for CD)
20	TRAY_CLOSE	O	Variable resistor control signal output to the optical pick-up block (for DVD)
21	TRO	O	Tracking coil control signal output to the coil/motor driver
22	FOO	O	Focus coil control signal output to the coil/motor driver
23	GPIO2	O	CD/DVD selection signal output terminal "L": DVD, "H": CD
24	USB_DM	I/O	Two-way USB data (–) bus with the USB connector
25	USB_DP	I/O	Two-way USB data (+) bus with the USB connector
26	VDD33_USB	-	Power supply terminal (+3.3V) (for USB)
27	VSS33_USB	-	Ground terminal (for USB)
28	PAD_VRT	I/O	USB generating reference current input/output terminal
29	VDD12_USB	-	Power supply terminal (+1.2V) (for USB)
30	SF_CS_	O	Chip select signal output to the serial flash
31	SF_DO	I	Serial data input from the serial flash
32	SF_DI	O	Serial data output to the serial flash
33	SF_CK	O	Serial data transfer clock signal output to the serial flash
34	SCL	O	Serial data transfer clock signal output to the system controller
35	SDA	O	Serial data output to the system controller
36	GPIO11	I	Serial data input terminal for flash writing
37	GPIO6	O	Serial data output terminal for flash writing
38	$\overline{\text{PRST}}$	I	Reset signal input from the system controller "L": reset
39	IR	-	Not used
40	GPIO3	I	Serial data input from the system controller
41	GPIO4	I	Busy signal input from the system controller
42	GPIO13	I	Chip select signal input from the system controller
43	GPIO9	-	Not used
44	GPIO8	I	Limit detection switch input terminal Not used
45	GPIO7	O	Muting signal output to the coil/motor driver
46 to 49	GPIO29 to GPIO32	-	Not used
50	DVSS33	-	Ground terminal (digital system)
51	DVDD33	-	Power supply terminal (+3.3V) (digital system)
52 to 55	RD0 to RD3	I/O	Two-way data bus with the SD-RAM
56	DVDD12	-	Power supply terminal (+1.2V) (digital system)
57 to 60	RD4 to RD7	I/O	Two-way data bus with the SD-RAM
61	DQM0	O	Data mask signal output to the SD-RAM (lower byte)
62 to 69	RD15 to RD8	I/O	Two-way data bus with the SD-RAM
70	DQM1	O	Data mask signal output to the SD-RAM (upper byte)
71	DVDD33	-	Power supply terminal (+3.3V) (digital system)
72	RCLK	O	Clock signal output to the SD-RAM
73 to 79	RA11, RA9 to RA4	O	Address signal output to the SD-RAM
80	$\overline{\text{RWE}}$	O	Write enable signal output to the SD-RAM

Pin No.	Pin Name	I/O	Description
81	DVSS12	-	Ground terminal (digital system)
82	$\overline{CAS}$	O	Column address strobe signal output to the SD-RAM
83	$\overline{RAS}$	O	Row address strobe signal output to the SD-RAM
84	DVDD33	-	Power supply terminal (+3.3V) (digital system)
85, 86	BA0, BA1	O	Bank address signal output to the SD-RAM
87	DVDD12	-	Power supply terminal (+1.2V) (digital system)
88 to 92	RA10, RA0 to RA3	O	Address signal output to the SD-RAM
93 to 95	GPIO12, GPIO10, GPIO33	-	Not used
96	DACVDDC	-	Power supply terminal (+3.3V) (for D/A converter)
97	VREF	-	Band-gap reference voltage terminal
98	FS	-	Full scale adjustment terminal
99	DACVSSC	-	Ground terminal (for D/A converter)
100	CVBS	O	Composite video signal output terminal Not used
101	DACVDDB	-	Power supply terminal (+3.3V) (for D/A converter)
102	Y/G	O	Component video (Y) signal output terminal Not used
103	B/CB/PB	O	Component video (Cb/Pb) signal output terminal Not used
104	R/CR/PR	O	Component video (Cr/Pr) signal output terminal Not used
105	AADVSS	-	Ground terminal (for A/D converter)
106	GPIO19	I	Audio data input terminal Not used
107, 108	GPIO20, GPIO21	-	Not used
109	AADVDD	-	Power supply terminal (+3.3V) (for A/D converter)
110, 111	ADACVSS2, ADACVSS1	-	Ground terminal (for D/A converter)
112	GPIO	O	Master clock signal output to the A/D converter
113	GPIO	O	Bit clock signal output to the audio DSP and A/D converter
114	GPIO0	-	Not used
115	AVCM	-	Audio D/A converter reference voltage terminal
116	GPIO1	-	Not used
117	GPIO	O	L/R sampling clock signal output to the audio DSP and A/D converter
118	GPIO	O	Audio data output to the audio DSP
119, 120	ADACVDD1, ADACVDD2	-	Power supply terminal (+3.3V) (for D/A converter)
121	AVDD12_1	-	Power supply terminal (+1.2V) (analog system)
122	AGND12	-	Ground terminal (analog system)
123	RFIP	I	AC coupled RF signal input from the optical pick-up block
124	RFIN	I	AC coupled RF signal input terminal Not used
125	OPINP	I	Positive input to the internal operational amplifier
126	OPINN	I	Negative input to the internal operational amplifier
127	RFA	I	RF main beam (C) input from the optical pick-up block
128	RFB	I	RF main beam (B) input from the optical pick-up block

SECTION 6
EXPLODED VIEWS

Note:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- 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.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Color variations
  CMT-X5CD
  (B) Black : US, CND, AEP, RU, SP, KR
  (W) White : AEP, RU, KR
  CMT-X5CDB
  (B) Black : AEP, UK, AUS
  (W) White : AEP, UK
  CMT-X7CD
  (B) Black : CH
  (W) White : AEP, CH
  CMT-X7CDB
  (B) Black : UK
  (W) White : AEP, UK
- Abbreviation
  AUS : Australian model
  CH : Chinese model
  CND : Canadian model
  KR : Korean model
  RU : Russian model
  SP : Singapore model

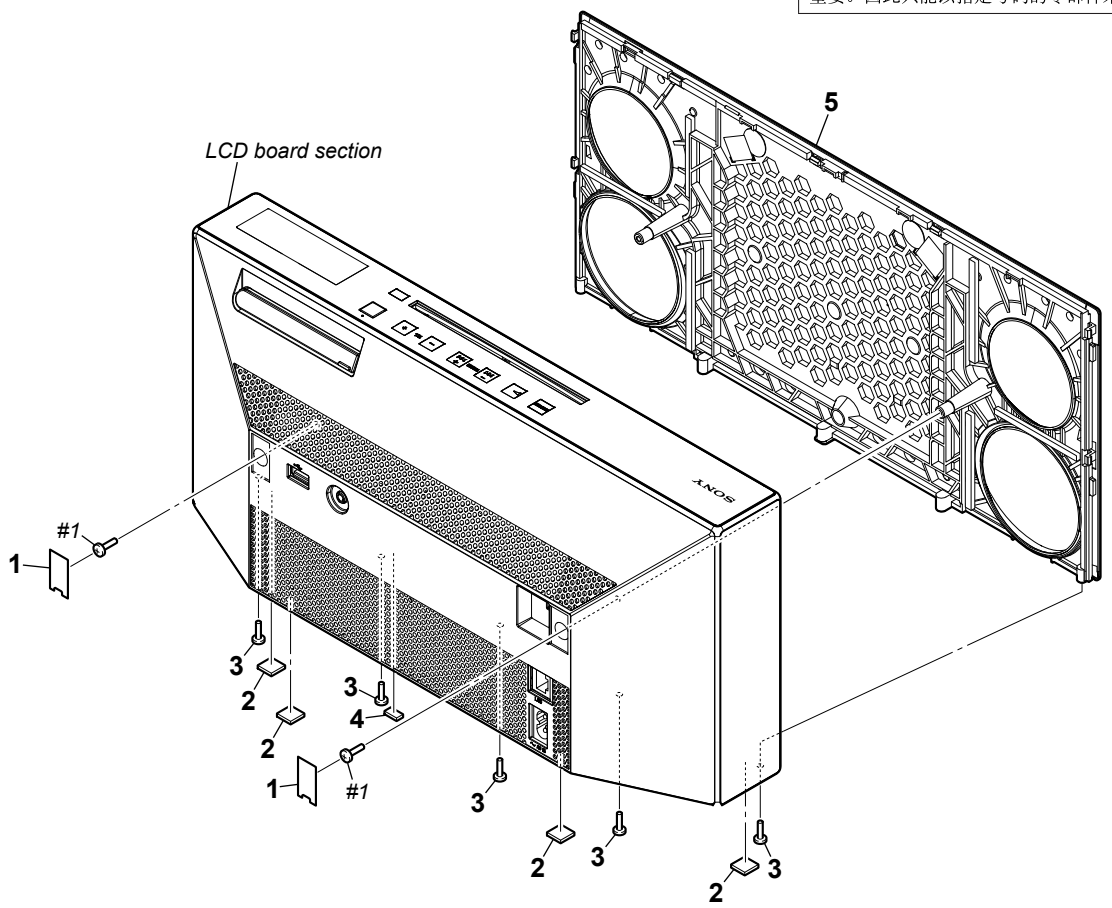
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

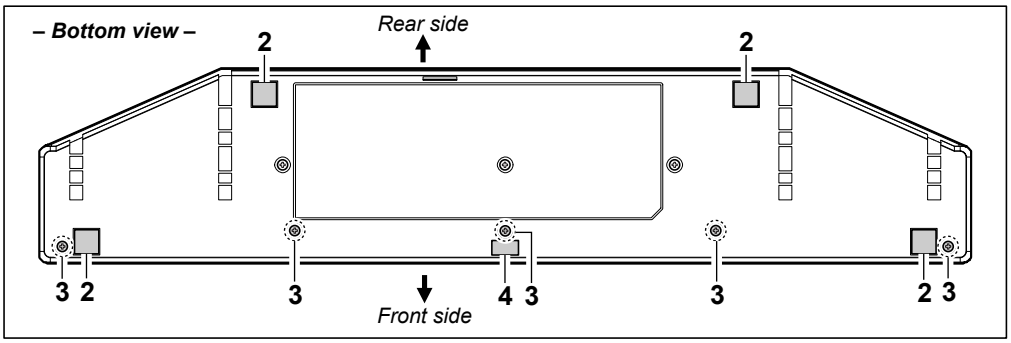
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

原理图和零件清单中标有⚠记号的零部件，或带有⚠记号的虚线所圈示的零部件，对于维系安全至关重要。因此只能以指定号码的零部件来更换。

6-1. FRONT PANEL SECTION

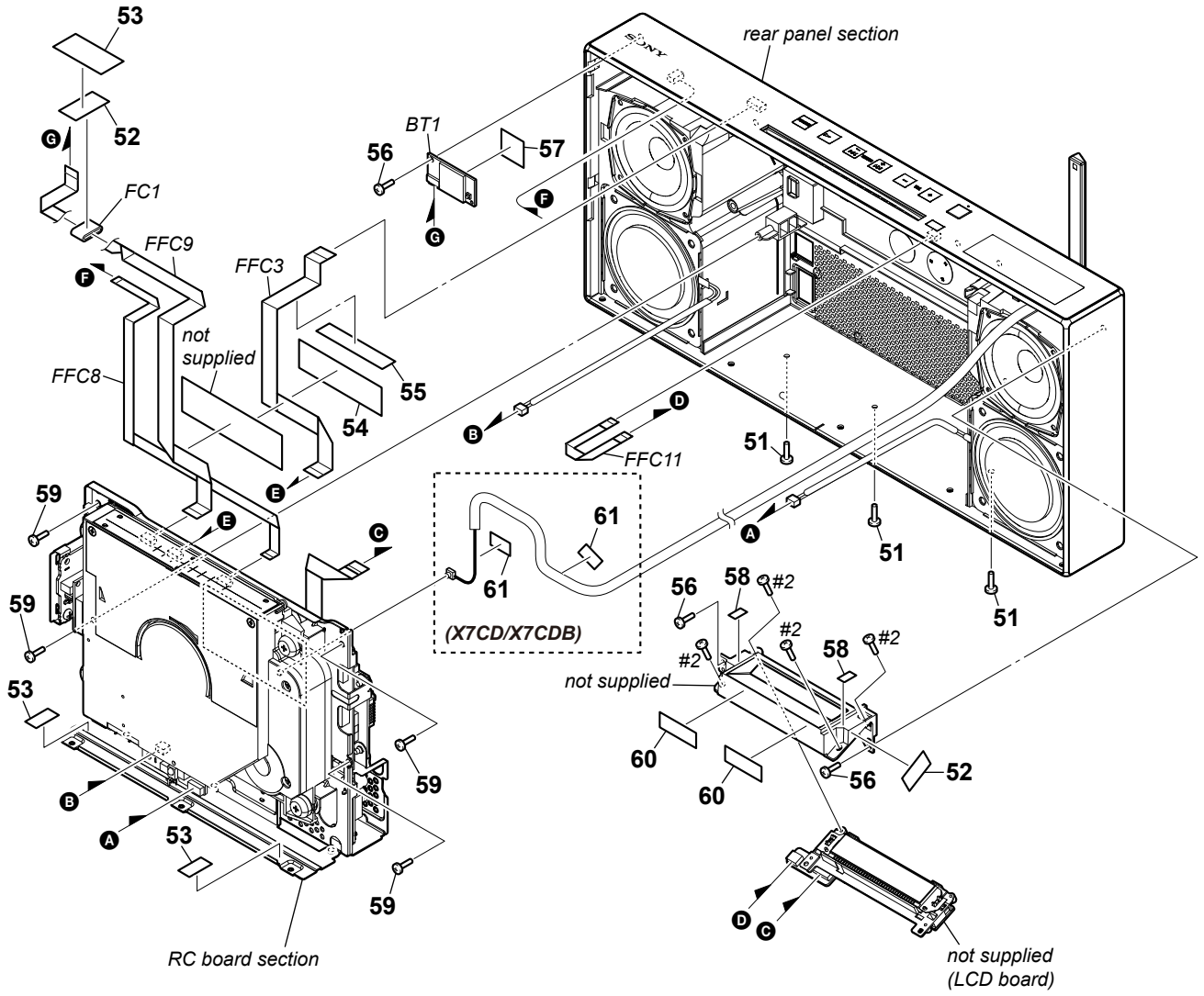
- Rear view





Ref. No.	Part No.	Description	Remark
1	4-484-790-01	CAP REAR	
2	4-452-772-01	FOOT	
3	4-218-253-32	SCREW (M2.6), +BTTP	
4	4-489-317-01	FOOT (S)	
5	X-2588-795-1	PANEL, FRONT SUB ASSY (B) (for BLACK)	
5	X-2588-796-1	PANEL, FRONT SUB ASSY (W) (for WHITE)	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

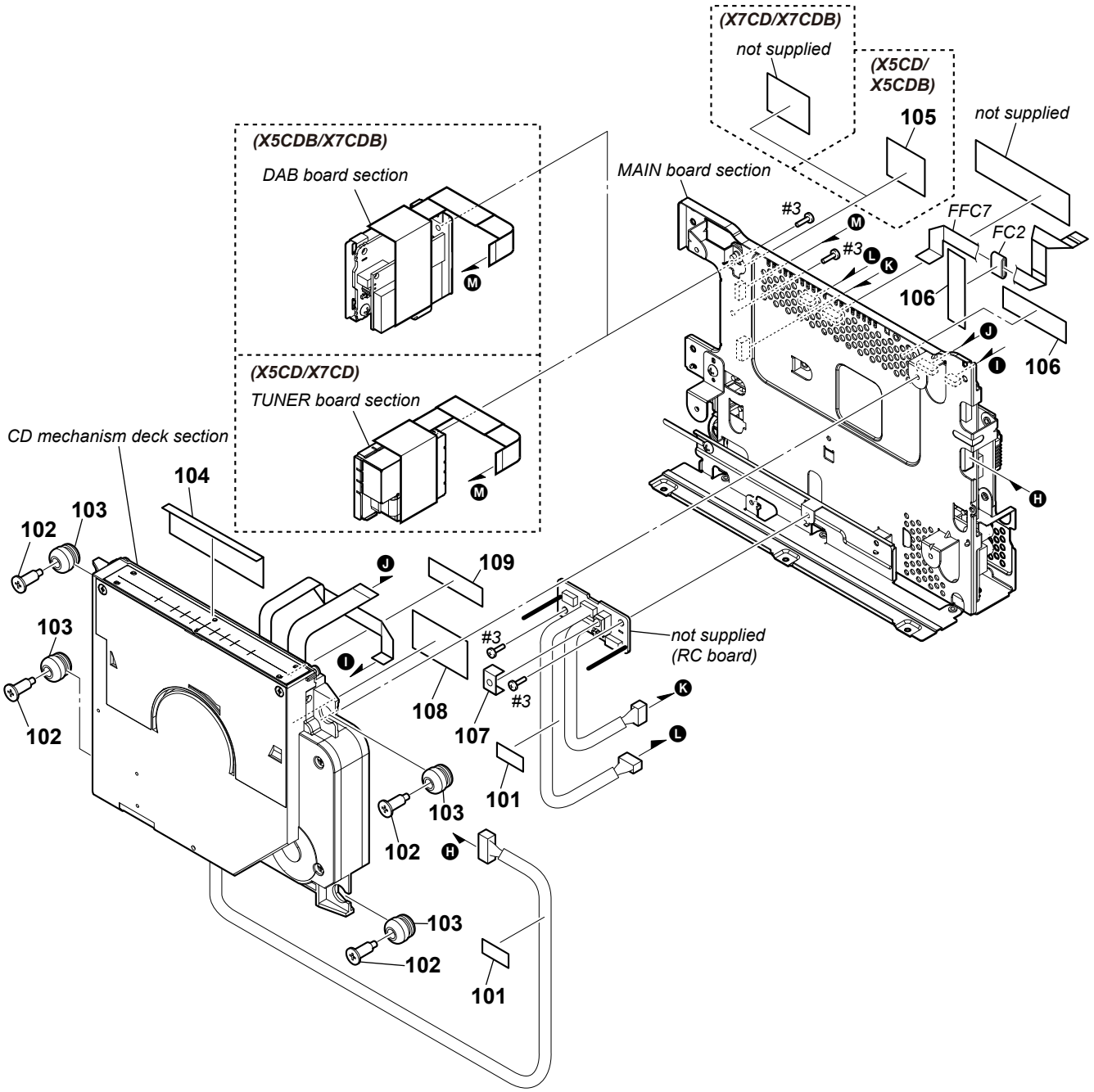
6-2. LCD BOARD SECTION



Ref. No.	Part No.	Description	Remark
51	4-218-253-32	SCREW (M2.6), +BTTP	
52	4-427-514-01	CUSHION (C)	
53	4-465-844-01	CUSHION, FFC (USB)	
54	4-466-963-01	CUSHION, BCO	
55	4-436-234-01	CUSHION (TOUCH)	
56	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
57	4-459-193-01	ADHESIVE (BT)	
58	4-427-517-01	CUSHION (F)	
59	3-087-053-01	+BVTP2.6 (3CR)	
60	4-431-585-01	CUSHION (K)	

Ref. No.	Part No.	Description	Remark
61	4-464-461-01	CUSHION (JACK) (X7CD/X7CDB)	
BT1	1-490-558-81	BLUETOOTH MODULE	
FC1	1-481-359-11	CORE, FERRITE	
FFC3	9-885-193-72	FY14 FFC (1.0 mm_7P_TOUCH KEY)	
FFC8	9-885-193-79	FY14 FFC (0.5 mm_8P_NFC)	
FFC9	9-885-193-80	FY14 FFC (0.5 mm_14P_BT)	
FFC11	9-885-193-71	FY14 FFC (1.0 mm_4P_POWER KEY)	
#2	7-685-504-19	SCREW +BTP 2X6 TYPE2 N-S	

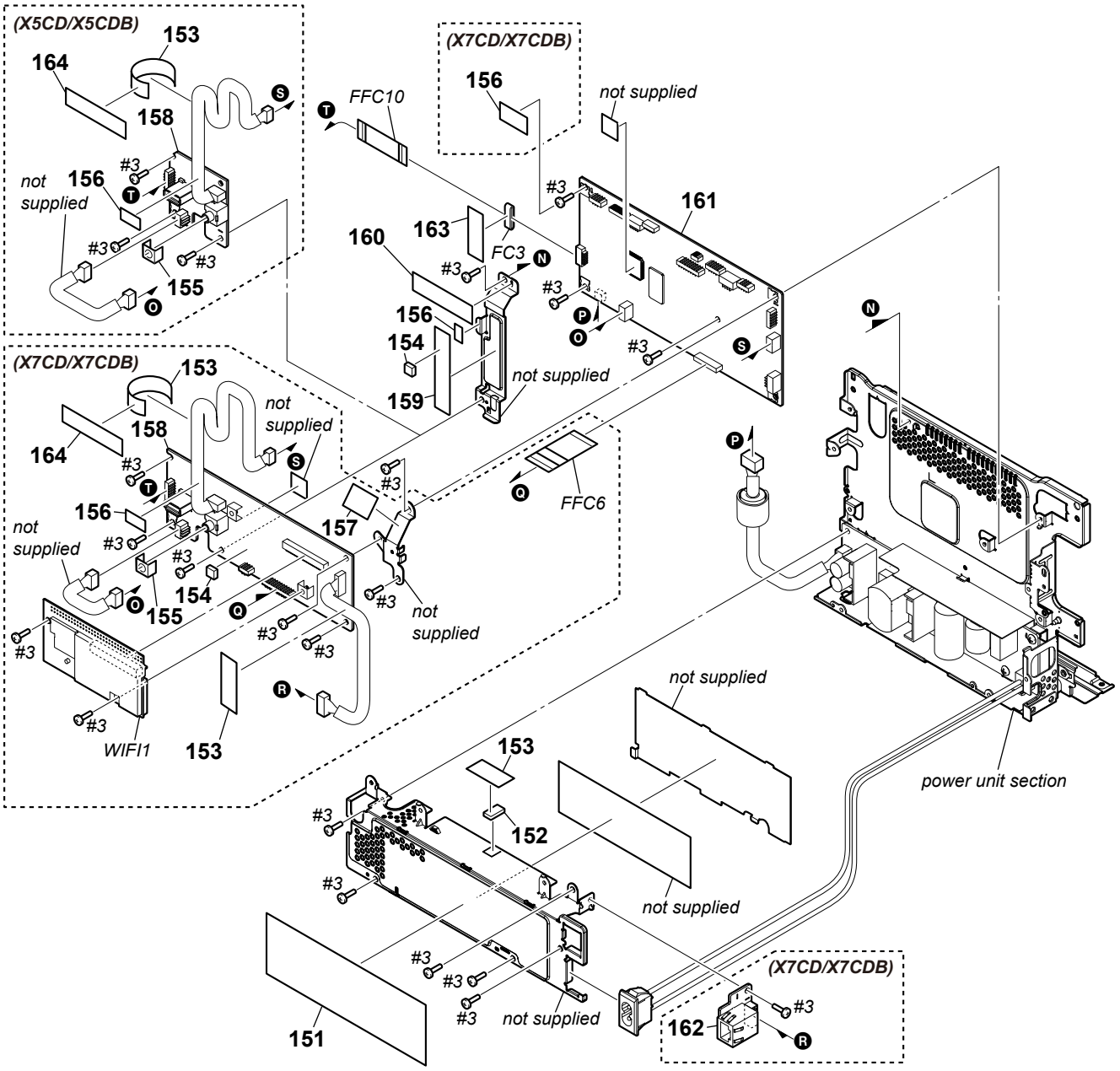
6-3. RC BOARD SECTION



Ref. No.	Part No.	Description	Remark
101	4-431-585-01	CUSHION (K)	
102	4-488-296-01	STEP SCREW	
103	4-456-402-11	INSULATOR	
104	4-535-803-01	CUSHION (CDM)	
105	4-459-192-11	CUSHION (FFC) (X5CD/X5CDB)	
106	4-466-963-01	CUSHION, BCO	
107	4-464-367-01	CUSHION (IR)	
108	4-459-192-02	CUSHION (FFC)	
109	4-436-234-01	CUSHION (TOUCH)	
FC2	1-469-829-11	CORE, FERRITE	
FFC7	9-885-193-76	FY14 FFC (1.0 mm_9P_LCD)	
#3	7-685-645-71	SCREW +BVTP 3X6 TYPE2 IT-3	

6-4. MAIN BOARD SECTION

• Rear view

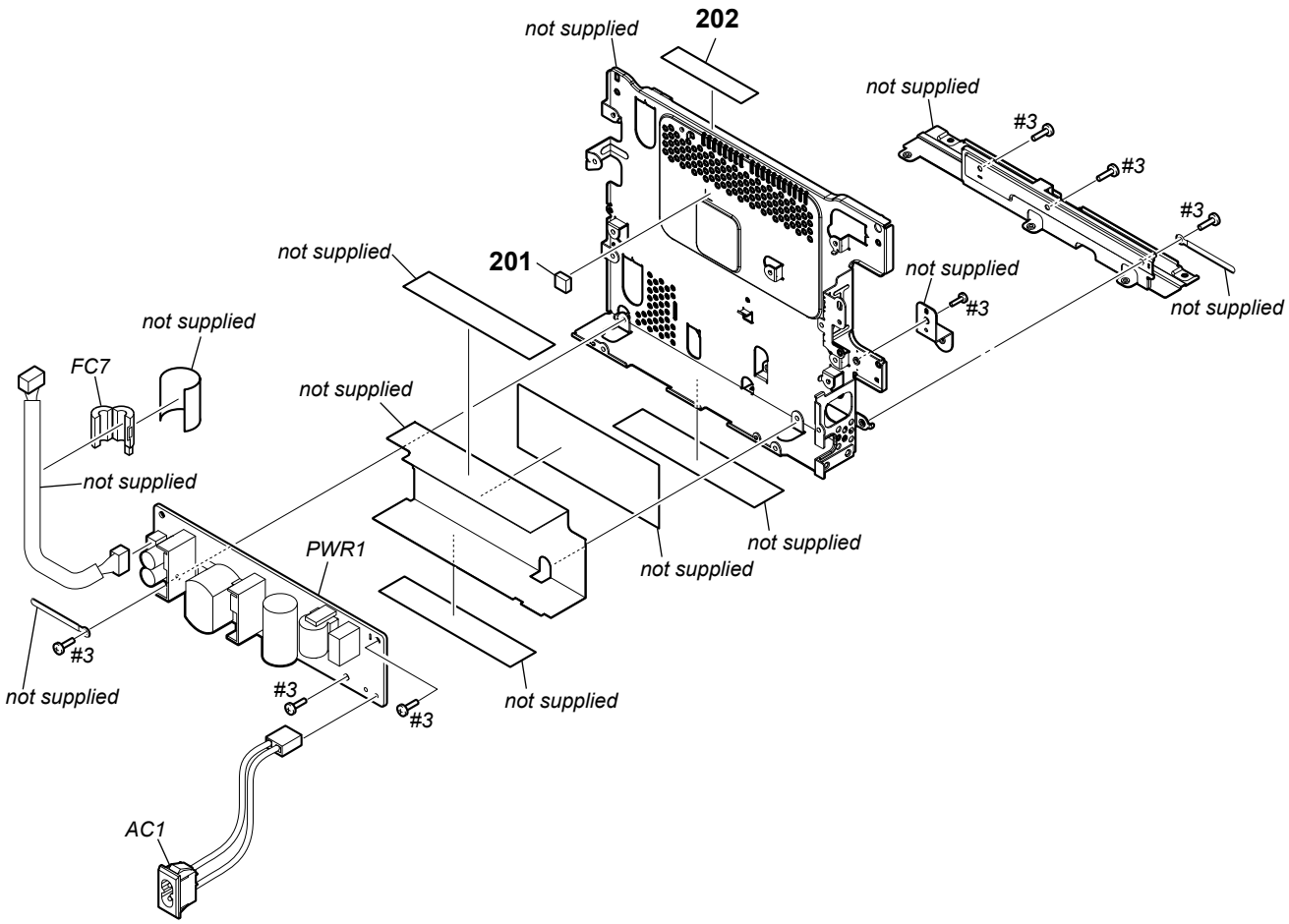


Note: When the WiFi module (Ref. No. WIFI1) is replaced, refer to "NOTE OF REPLACING THE WiFi MODULE (CMT-X7CD/X7CDB only)", "PROCESSING OF REPLACING THE WiFi MODULE (CMT-X7CD/X7CDB only)" and "CHECKING METHOD OF NETWORK CONNECTION (CMT-X7CD/X7CDB only)" on page 5.

Ref. No.	Part No.	Description	Remark
151	4-536-407-02	CUSHION (LID POW)	
152	4-459-198-11	GASKET	
153	4-465-844-01	CUSHION, FFC (USB)	
154	4-465-840-01	CUSHION (MAIN PWB)	
155	4-464-456-01	CUSHION (AUDIO IN)	
156	4-464-461-01	CUSHION (JACK)	
157	4-465-842-01	CUSHION, TUNER (X7CD/X7CDB)	
158	A-1987-659-A	JACK BOARD, COMPLETE (X5CD/X5CDB)	
158	A-1987-658-A	JACK-NET BOARD, COMPLETE (X7CD/X7CDB)	
159	4-536-406-01	CUSHION (BRIDGE)	
160	4-466-963-01	CUSHION, BCO	
161	A-1987-631-A	MAIN BOARD, COMPLETE (X7CD: AEP)	
161	A-1987-634-A	MAIN BOARD, COMPLETE (X7CDB)	
161	A-1987-635-A	MAIN BOARD, COMPLETE (X5CD: AEP)	
161	A-1987-636-A	MAIN BOARD, COMPLETE (X5CD: US, CND)	
161	A-1987-638-A	MAIN BOARD, COMPLETE (X5CDB: AEP, UK)	
161	A-2042-713-A	MAIN BOARD, COMPLETE (X7CD: CH)	
161	A-2042-714-A	MAIN BOARD, COMPLETE (X5CD: RU)	
161	A-2042-715-A	MAIN BOARD, COMPLETE (X5CD: KR)	
161	A-2042-716-A	MAIN BOARD, COMPLETE (X5CD: SP)	
161	A-2042-719-A	MAIN BOARD, COMPLETE (X5CDB: AUS)	
162	A-1987-655-A	ETHER BOARD, COMPLETE (X7CD/X7CDB)	
163	4-537-623-01	CUSHION (JACK FERRITE)	
164	4-466-768-01	CUSHION, PWB (JACK)	
FC3	1-457-414-11	CORE, FERRITE	
FFC6	9-885-193-78	FY14 FFC (1.0 mm_21P_BCO) (X7CD/X7CDB)	
FFC10	9-885-193-77	FY14 FFC (1.0 mm_15P_JACK)	
WIFI1	X-2589-210-1	WIFI MODULE (X7CD/X7CDB) (See Note)	
#3	7-685-645-71	SCREW +BVTP 3X6 TYPE2 IT-3	

6-5. POWER UNIT SECTION

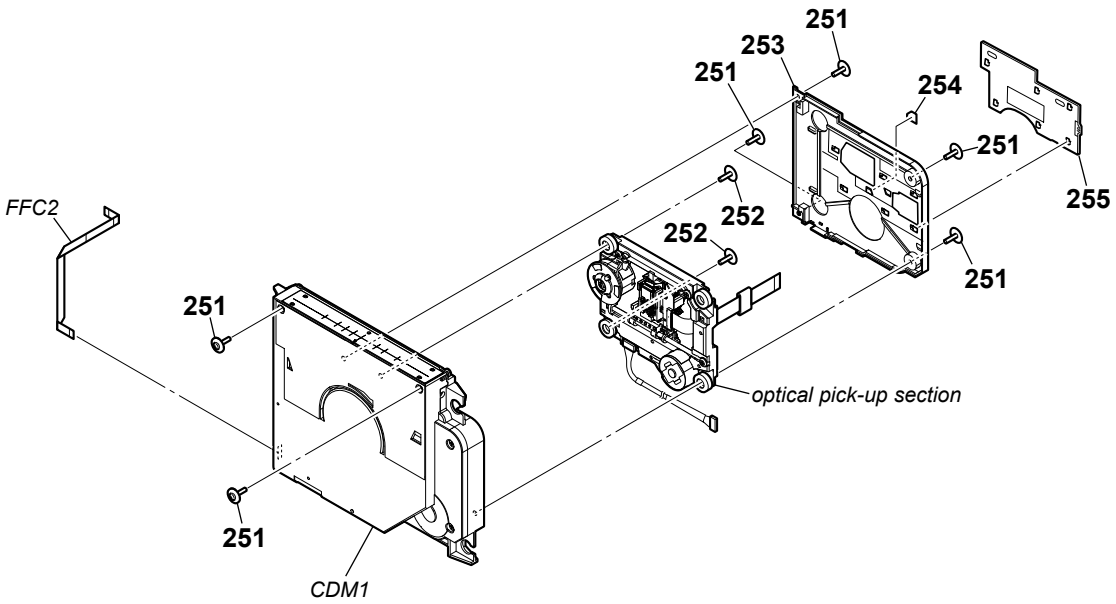
• Rear view



Ref. No.	Part No.	Description	Remark
201	4-465-840-01	CUSHION (MAIN PWB)	
202	4-436-234-01	CUSHION (TOUCH)	
⚠ AC1	1-843-934-11	AC INLET (2P)	
* FC7	1-500-082-11	CLAMP, SLEEVE FERRITE	

Ref. No.	Part No.	Description	Remark
⚠ PWR1	1-474-552-11	POWER UNIT	
#3	7-685-645-71	SCREW +BVTP 3X6 TYPE2 IT-3	

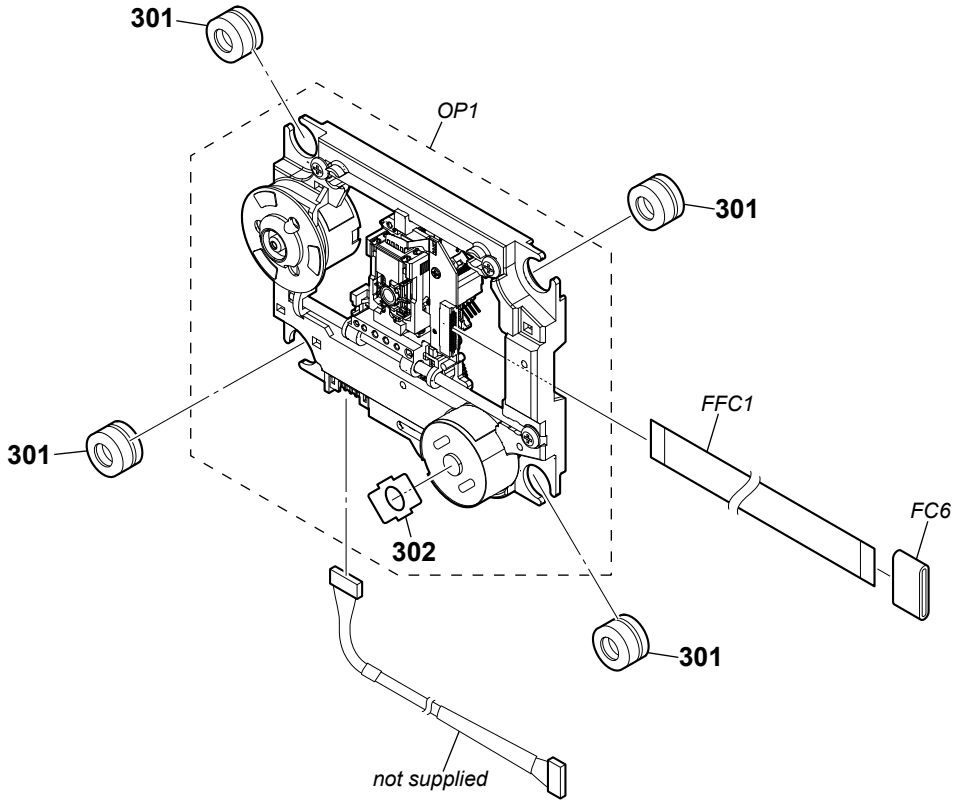
6-6. CD MECHANISM DECK SECTION (CDM91-DVBU203)



Ref. No.	Part No.	Description	Remark
251	4-674-137-01	SCREW (PTP2X5)	
252	2-345-115-01	SCREW (S), FLOAT	
253	4-451-679-01	COVER, BOTTOM (I)	
254	4-464-704-01	SHEET, COVER	
255	4-451-680-01	FFC GUIDE	

Ref. No.	Part No.	Description	Remark
CDM1	A-1924-332-A	LOADING ASSY (Including MS-091 board, loading motor)	
FFC2	9-885-193-73	FY14 FFC (1.0 mm_7P_CDM)	

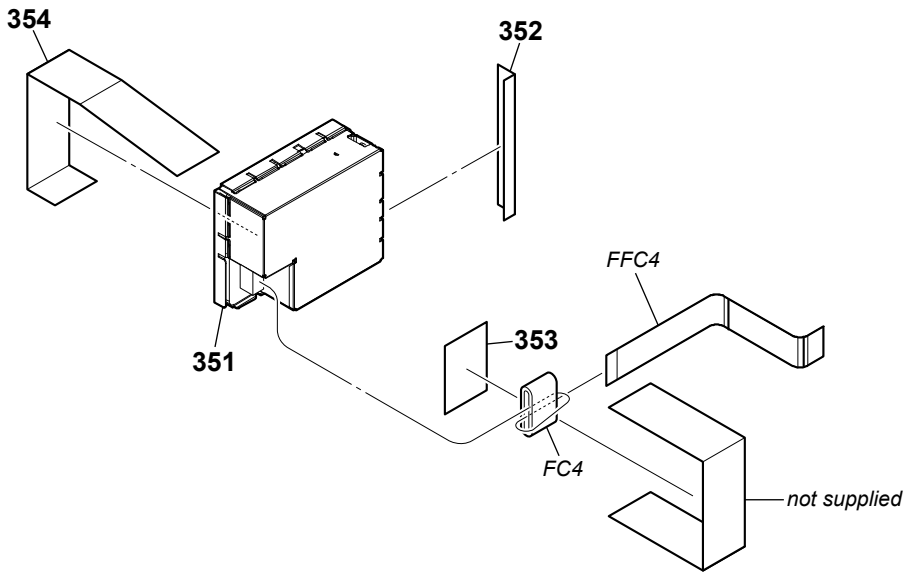
6-7. OPTICAL PICK-UP SECTION



Ref. No.	Part No.	Description	Remark
301	4-456-402-01	INSULATOR	
302	4-418-987-01	SHEET (S76)	
FC6	1-469-829-11	CORE, FERRITE	

Ref. No.	Part No.	Description	Remark
FFC1	9-885-193-81	FY14 FFC (0.5 mm_24P_CD OP)	
⚠ OP1	A-1940-584-A	OPTICAL PICK-UP (CMS-S76RFS7G) (for SERVICE) (Including sled motor, spindle motor)	

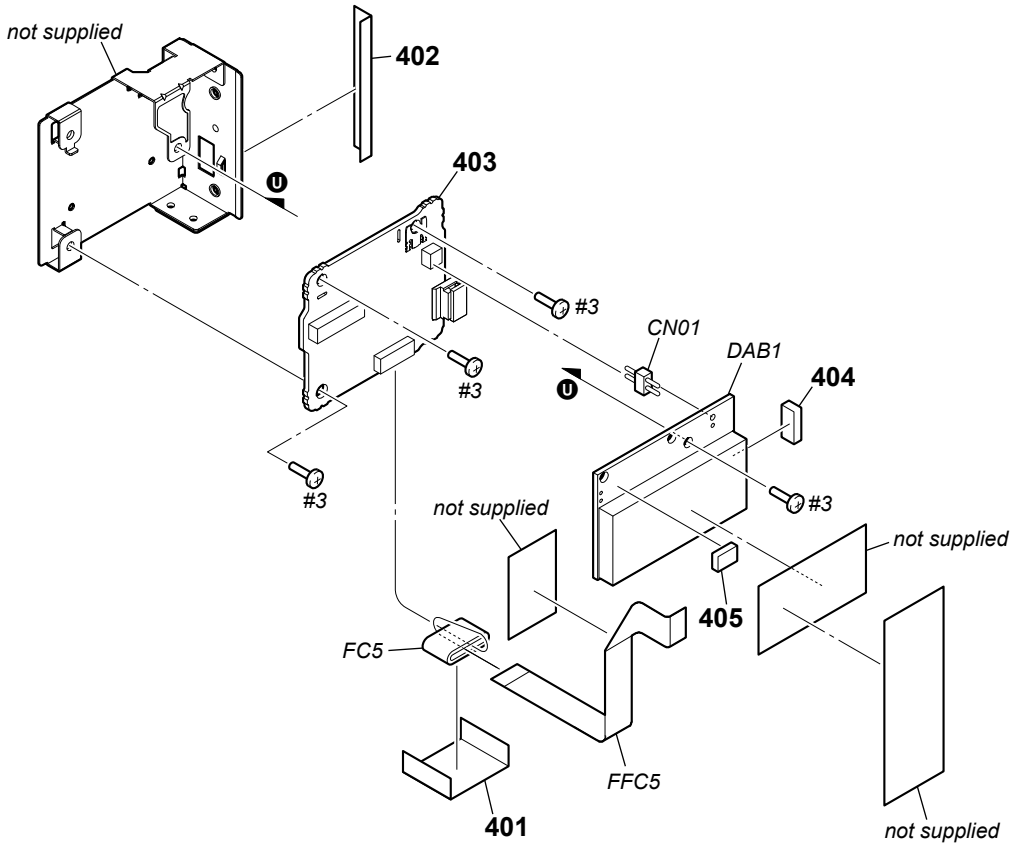
6-8. TUNER BOARD SECTION (X5CD/X7CD)



Ref. No.	Part No.	Description	Remark
351	A-1924-242-A	TUNER BOARD, COMPLETE	
352	4-436-234-01	CUSHION (TOUCH)	
353	4-466-963-01	CUSHION, BCO	
354	4-436-235-01	CUSHION (LCD)	

Ref. No.	Part No.	Description	Remark
FC4	1-500-635-11	CORE, FERRITE	
FFC4	9-885-193-74	FY14 FFC (1.0 mm_9P_RICOH TUNER)	

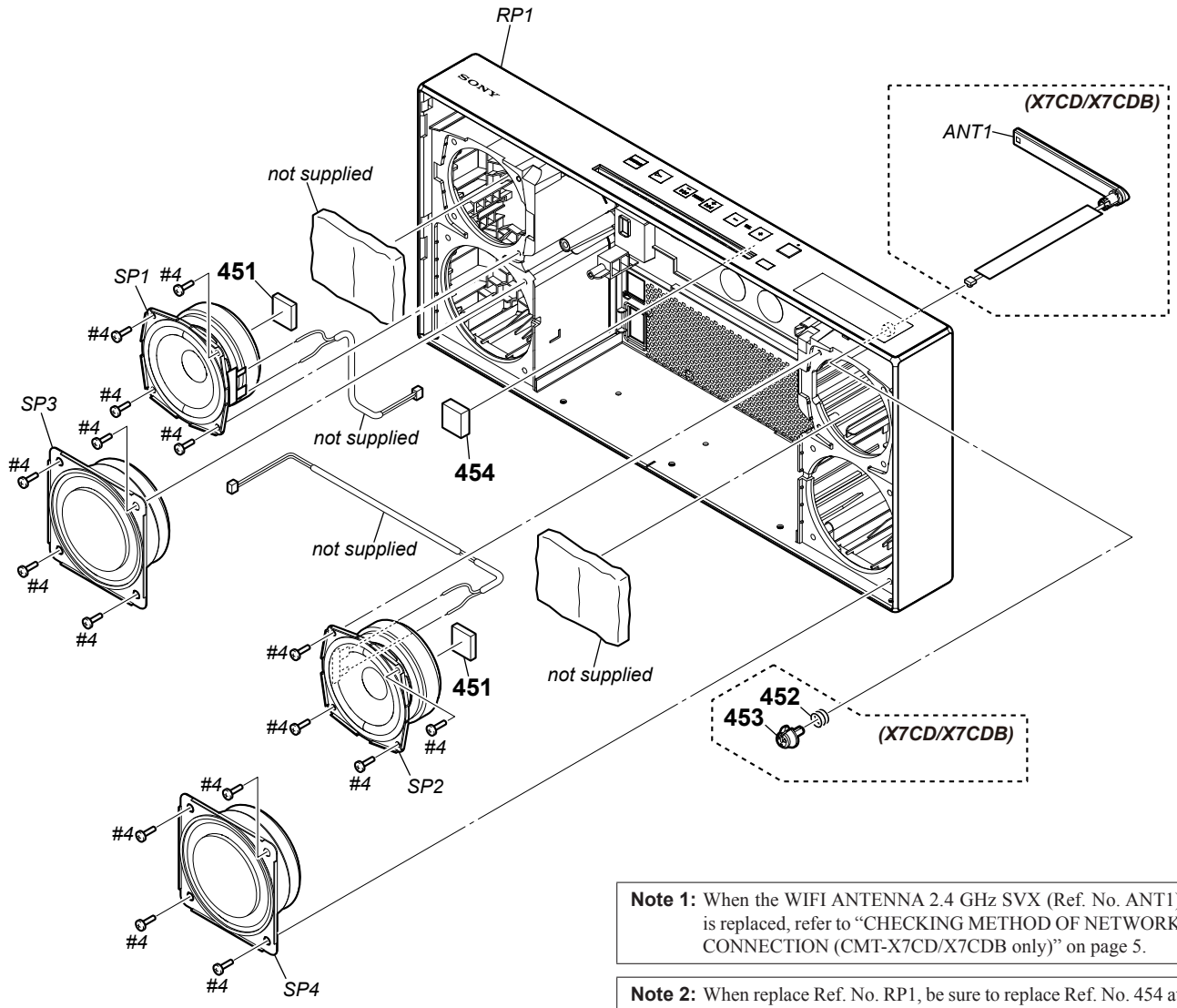
6-9. DAB BOARD SECTION (X5CDB/X7CDB)



Ref. No.	Part No.	Description	Remark
401	4-465-844-01	CUSHION, FFC (USB)	
402	4-436-234-01	CUSHION (TOUCH)	
403	A-1987-661-A	DAB BOARD, COMPLETE	
404	4-459-198-01	GASKET	
405	4-489-317-01	FOOT (S)	

Ref. No.	Part No.	Description	Remark
CN01	1-843-261-11	PIN HEADER 2P	
DAB1	1-489-807-11	MODULE (DAB TUNER)	
FC5	1-500-635-11	CORE, FERRITE	
FFC5	9-885-193-75	FY14 FFC (1.0 mm_9P_DAB)	
#3	7-685-645-71	SCREW +BVTP 3X6 TYPE2 IT-3	

6-10. REAR PANEL SECTION



Note 1: When the WIFI ANTENNA 2.4 GHz SVX (Ref. No. ANT1) is replaced, refer to "CHECKING METHOD OF NETWORK CONNECTION (CMT-X7CD/X7CDB only)" on page 5.

Note 2: When replace Ref. No. RP1, be sure to replace Ref. No. 454 at the same time.

Ref. No.	Part No.	Description	Remark
451	4-533-144-01	CUSHION (SPEAKER)	
452	4-477-992-01	SPRING (ANT) (X7CD/X7CDB)	
453	4-477-981-01	SHAFT (ANT) (X7CD/X7CDB)	
454	4-534-399-01	CUSHION, CHASSIS (M)	
ANT1	X-2588-794-1	WIFI ANTENNA 2.4 GHz SVX (Wireless LAN antenna) (Including ANTENNA board) (X7CD/X7CDB) (See Note 1)	
RP1	X-2589-297-1	PANEL, REAR SVX (X7COM/B) (Including NFC module, POWER KEY board, TOUCH KEY board) (for BLACK) (X7CD: CH) (See Note 2)	
RP1	X-2589-298-1	PANEL, REAR SVX (X7COM/W) (Including NFC module, POWER KEY board, TOUCH KEY board) (for WHITE) (X7CD: AEP, CH) (See Note 2)	
RP1	X-2589-301-1	PANEL, REAR SVX (X7B/B) (Including NFC module, POWER KEY board, TOUCH KEY board) (for BLACK) (X7CDB: UK) (See Note 2)	
RP1	X-2589-302-1	PANEL, REAR SVX (X7B/W) (Including NFC module, POWER KEY board, TOUCH KEY board) (for WHITE) (X7CDB: AEP, UK) (See Note 2)	
RP1	X-2589-303-1	PANEL, REAR SVX (X5COM/B) (Including NFC module, POWER KEY board, TOUCH KEY board) (for BLACK) (X5CD: AEP, RU, SP, KR) (See Note 2)	
RP1	X-2589-304-1	PANEL, REAR SVX (X5COM/W) (Including NFC module, POWER KEY board, TOUCH KEY board) (for WHITE) (X5CD: AEP, RU, KR) (See Note 2)	
RP1	X-2589-307-1	PANEL, REAR SVX (X5UC) (Including NFC module, POWER KEY board, TOUCH KEY board) (for BLACK) (X5CD: US, CND) (See Note 2)	
RP1	X-2589-308-1	PANEL, REAR SVX (X5B/B) (Including NFC module, POWER KEY board, TOUCH KEY board) (for BLACK) (X5CDB: AEP, UK) (See Note 2)	
RP1	X-2589-309-1	PANEL, REAR SVX (X5B/W) (Including NFC module, POWER KEY board, TOUCH KEY board) (for WHITE) (X5CDB: AEP, UK) (See Note 2)	
RP1	X-2589-310-1	PANEL, REAR SVX (X5AU) (Including NFC module, POWER KEY board, TOUCH KEY board) (for BLACK) (X5CDB: AUS) (See Note 2)	
SP1	1-858-973-11	SPEAKER (65 mm) (Full-range speaker: L-ch)	
SP2	1-858-973-11	SPEAKER (65 mm) (Full-range speaker: R-ch)	
SP3	1-858-977-11	SPEAKER (80 mm) (Passive radiator: L-ch)	
SP4	1-858-977-11	SPEAKER (80 mm) (Passive radiator: R-ch)	
#4	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

ANTENNA DAB

ETHER JACK

SECTION 7
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.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- CAPACITORS
  uF: µF
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . , uPA. . , µPA. . ,
  uPB. . : µPB. . , uPC. . , µPC. . ,
  uPD. . : µPD. .
- Abbreviation
  AUS : Australian model
  CH : Chinese model
  CND : Canadian model
  KR : Korean model
  RU : Russian model
  SP : Singapore model

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

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.

原理图和零件清单中标有⚠记号的零部件，或带有⚠记号的虚线所圈示的零部件，对于维系安全至关重要。因此只能以指定号码的零部件来更换。

Ref. No.	Part No.	Description			Remark
		ANTENNA BOARD (X7CD/X7CDB)			
		**********			
When the ANTENNA board is defective, replace the WIFI ANTENNA 2.4 GHz SVX (Ref. No. ANT1).					
**********					
	A-1987-661-A	DAB BOARD, COMPLETE (X5CDB/X7CDB)			
		**********			
When the DAB board is defective, replace the complete mounted board.					
**********					
	A-1987-655-A	ETHER BOARD, COMPLETE (X7CD/X7CDB)			
		**********			
		< CAPACITOR >			
C001	1-114-472-91	CERAMIC CHIP	0.001uF	10%	2KV
		< CONNECTOR >			
CN2201	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P			
		< JACK >			
J001	1-842-235-11	JACK, MODULAR (LAN)			
		< RESISTOR >			
* R2201	1-250-589-11	METAL CHIP	75	1%	1/10W
* R2202	1-250-589-11	METAL CHIP	75	1%	1/10W
**********					
	A-1987-659-A	JACK BOARD, COMPLETE (X5CD/X5CDB)			
		**********			
		< CAPACITOR >			
C1501	1-100-916-11	CERAMIC CHIP	0.1uF	10%	16V
C1503	1-100-916-11	CERAMIC CHIP	0.1uF	10%	16V
C1504	1-116-708-11	CERAMIC CHIP	47uF	20%	6.3V
C1505	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
C1506	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
C1507	1-116-708-11	CERAMIC CHIP	47uF	20%	6.3V
C1508	1-116-708-11	CERAMIC CHIP	47uF	20%	6.3V
C1519	1-116-708-11	CERAMIC CHIP	47uF	20%	6.3V
C1521	1-116-708-11	CERAMIC CHIP	47uF	20%	6.3V
C1525	1-164-882-11	CERAMIC CHIP	220PF	5%	16V
C1527	1-164-852-11	CERAMIC CHIP	12PF	5%	50V
C1528	1-114-325-11	CERAMIC CHIP	0.1uF	10%	25V
C1532	1-112-777-11	CERAMIC CHIP	0.01uF	10%	25V
C1533	1-116-721-11	CERAMIC CHIP	4.7uF	10%	25V
C1534	1-100-916-11	CERAMIC CHIP	0.1uF	10%	16V
C1535	1-116-721-11	CERAMIC CHIP	4.7uF	10%	25V
C1538	1-112-777-11	CERAMIC CHIP	0.01uF	10%	25V
C1541	1-100-916-11	CERAMIC CHIP	0.1uF	10%	16V
C1544	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V
C1545	1-100-916-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN1501	1-843-519-11	USB CONNECTOR (A) (⇜ DC 5V ⎓ 1.5A MAX)			
CN1504	1-794-509-11	PIN, CONNECTOR (PC BOARD) (3P)			
CN1507	1-820-115-41	CONNECTOR, FFC/FPC 15P			
		< DIODE >			
D1501	6-500-400-01	DIODE BAV99-215			
D1506	6-503-705-01	DIODE SJPJ-L3SVL			
D1507	6-502-970-01	DIODE DZ2J068M0L			
D1508	6-502-961-01	DIODE DA2J10100L			
D1509	6-500-400-01	DIODE BAV99-215			
		< IC >			
IC1501	6-720-859-01	IC BD82034FVJ-GE2			
* IC1506	6-718-479-11	IC TPS54332CDDAR			
IC1507	6-716-783-01	IC BD11600NUX-E2			
		< JACK >			
J1501	1-843-923-11	JACK (AUDIO IN)			
		< COIL >			
L1502	1-460-503-11	COIL, CHOKE	10uH		
		< RESISTOR/CAPACITOR >			
R1503	1-216-864-11	SHORT CHIP	0		
R1504	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1505	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1506	1-218-990-81	SHORT CHIP	0		
R1507	1-218-990-81	SHORT CHIP	0		
R1509	1-218-973-11	METAL CHIP	47K	5%	1/16W
R1511	1-218-953-11	METAL CHIP	1K	5%	1/16W
R1512	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R1515	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R1516	1-208-671-11	METAL CHIP	330	0.5%	1/16W
R1517	1-208-687-11	METAL CHIP	1.5K	0.5%	1/16W
R1518	1-208-671-11	METAL CHIP	330	0.5%	1/16W
R1519	1-208-855-81	METAL CHIP	47	0.5%	1/16W

Ref. No.	Part No.	Description			Remark
R1521	1-218-973-11	METAL CHIP	47K	5%	1/16W
R1522	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1523	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1524	1-216-809-11	METAL CHIP	100	5%	1/10W
R1525	1-216-809-11	METAL CHIP	100	5%	1/10W
R1526	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1532	1-218-990-81	SHORT CHIP	0		
R1535	1-218-990-81	SHORT CHIP	0		
R1537	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1538	1-216-864-11	SHORT CHIP	0		
R1539	1-216-809-11	METAL CHIP	100	5%	1/10W
R1540	1-216-809-11	METAL CHIP	100	5%	1/10W
R1541	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1542	1-216-864-11	SHORT CHIP	0		
R1545	1-216-864-11	SHORT CHIP	0		
R1548	1-216-864-11	SHORT CHIP	0		
R1576	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
R1577	1-218-941-81	METAL CHIP	100	5%	1/16W

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A-1987-658-A JACK-NET BOARD, COMPLETE (X7CD/X7CDB)
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< CAPACITOR >

C1501	1-100-916-11	CERAMIC CHIP	0.1uF	10%	16V
C1503	1-100-916-11	CERAMIC CHIP	0.1uF	10%	16V
C1504	1-116-708-11	CERAMIC CHIP	47uF	20%	6.3V
C1505	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
C1506	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
C1507	1-116-708-11	CERAMIC CHIP	47uF	20%	6.3V
C1508	1-116-708-11	CERAMIC CHIP	47uF	20%	6.3V
C1519	1-116-708-11	CERAMIC CHIP	47uF	20%	6.3V
C1520	1-116-734-11	CERAMIC CHIP	1uF	20%	16V
C1521	1-116-708-11	CERAMIC CHIP	47uF	20%	6.3V
C1522	1-100-916-11	CERAMIC CHIP	0.1uF	10%	16V
C1523	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
C1525	1-164-882-11	CERAMIC CHIP	220PF	5%	16V
C1526	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V
C1527	1-164-852-11	CERAMIC CHIP	12PF	5%	50V
C1528	1-114-325-11	CERAMIC CHIP	0.1uF	10%	25V
C1529	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
C1530	1-116-708-11	CERAMIC CHIP	47uF	20%	6.3V
C1531	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V
C1532	1-112-777-11	CERAMIC CHIP	0.01uF	10%	25V
C1533	1-116-721-11	CERAMIC CHIP	4.7uF	10%	25V
C1534	1-100-916-11	CERAMIC CHIP	0.1uF	10%	16V
C1535	1-116-721-11	CERAMIC CHIP	4.7uF	10%	25V
C1536	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C1537	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C1538	1-112-777-11	CERAMIC CHIP	0.01uF	10%	25V
C1539	1-100-905-11	CERAMIC CHIP	0.001uF	10%	50V
C1540	1-100-905-11	CERAMIC CHIP	0.001uF	10%	50V
C1541	1-100-916-11	CERAMIC CHIP	0.1uF	10%	16V
C1542	1-100-916-11	CERAMIC CHIP	0.1uF	10%	16V
C1543	1-100-916-11	CERAMIC CHIP	0.1uF	10%	16V
C1544	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V
C1545	1-100-916-11	CERAMIC CHIP	0.1uF	10%	16V
C1547	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
C1550	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C1551	1-164-882-11	CERAMIC CHIP	220PF	5%	16V
C1552	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
C1553	1-100-905-11	CERAMIC CHIP	0.001uF	10%	50V
C1554	1-100-916-11	CERAMIC CHIP	0.1uF	10%	16V
C1558	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V

< CONNECTOR >

CN1501	1-843-519-11	USB CONNECTOR (A) (DC 5V 1.5A MAX)	
CN1502	1-820-119-41	CONNECTOR, FFC/FPC 21P	
CN1504	1-794-509-11	PIN, CONNECTOR (PC BOARD) (3P)	
CN1505	(Not supplied)	CONNECTOR, BOARD TO BOARD 120P	(See Note)
CN1507	1-820-115-41	CONNECTOR, FFC/FPC 15P	
CN1508	1-794-362-51	FFC/CONNECTOR, FPC (LIF (NON-ZIF)) 5P	

< DIODE >

D1501	6-500-400-01	DIODE	BAV99-215
D1506	6-503-705-01	DIODE	SJPJ-L3SVL
D1507	6-502-970-01	DIODE	DZ2J068M0L
D1508	6-502-961-01	DIODE	DA2J10100L
D1509	6-500-400-01	DIODE	BAV99-215

< FERRITE BEAD >

FB1501	1-400-794-21	EMI FERRITE (SMD) (1608)
FB1502	1-400-198-21	INDUCTOR, FERRITE BEAD (1005)

< IC >

IC1501	6-720-859-01	IC	BD82034FVJ-GE2
IC1502	6-718-329-01	IC	TC7WBL3305CFK, RS
IC1504	6-719-012-01	IC	S-13A1A12-E6T1U3
IC1505	6-719-430-01	IC	MM3411A33NRE
* IC1506	6-718-479-11	IC	TPS54332CDDAR
IC1507	6-716-783-01	IC	BD11600NUX-E2

< JACK >

J1501	1-843-923-11	JACK (AUDIO IN)

< COIL >

L1502	1-460-503-11	COIL, CHOKE	10uH
L1504	1-460-653-21	COIL, COMMON MODE CHOKE	
L1505	1-460-653-21	COIL, COMMON MODE CHOKE	

< CAPACITOR/RESISTOR >

R1502	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
R1503	1-216-864-11	SHORT CHIP	0		
R1504	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1505	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1506	1-218-990-81	SHORT CHIP	0		
R1507	1-218-990-81	SHORT CHIP	0		
R1509	1-218-973-11	METAL CHIP	47K	5%	1/16W
R1511	1-218-953-11	METAL CHIP	1K	5%	1/16W
R1512	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R1515	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R1516	1-208-671-11	METAL CHIP	330	0.5%	1/16W
R1517	1-208-687-11	METAL CHIP	1.5K	0.5%	1/16W
R1518	1-208-671-11	METAL CHIP	330	0.5%	1/16W
R1519	1-208-855-81	METAL CHIP	47	0.5%	1/16W
R1520	1-216-864-11	SHORT CHIP	0		
R1521	1-218-973-11	METAL CHIP	47K	5%	1/16W
R1522	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1523	1-218-965-11	METAL CHIP	10K	5%	1/16W

Note: CN1505 on the JACK-NET board cannot replace with single. When this part is damaged, replace the complete mounted board.

JACK-NET **LCD**

Ref. No.	Part No.	Description			Remark
R1524	1-216-809-11	METAL CHIP	100	5%	1/10W
R1525	1-216-809-11	METAL CHIP	100	5%	1/10W
R1526	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1527	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1528	1-216-809-11	METAL CHIP	100	5%	1/10W
R1529	1-218-973-11	METAL CHIP	47K	5%	1/16W
R1530	1-218-929-11	METAL CHIP	10	5%	1/16W
R1531	1-218-929-11	METAL CHIP	10	5%	1/16W
R1533	1-216-864-11	SHORT CHIP	0		
R1534	1-216-864-11	SHORT CHIP	0		
R1535	1-218-990-81	SHORT CHIP	0		
R1537	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1538	1-216-864-11	SHORT CHIP	0		
R1539	1-216-809-11	METAL CHIP	100	5%	1/10W
R1540	1-216-809-11	METAL CHIP	100	5%	1/10W
R1541	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1542	1-216-864-11	SHORT CHIP	0		
R1543	1-218-937-11	METAL CHIP	47	5%	1/16W
R1544	1-218-937-11	METAL CHIP	47	5%	1/16W
R1545	1-216-864-11	SHORT CHIP	0		
R1546	1-218-937-11	METAL CHIP	47	5%	1/16W
R1547	1-216-809-11	METAL CHIP	100	5%	1/10W
R1548	1-216-864-11	SHORT CHIP	0		
R1549	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1550	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1551	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1552	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1555	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1556	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1557	1-218-937-11	METAL CHIP	47	5%	1/16W
R1558	1-216-797-11	METAL CHIP	10	5%	1/10W
R1559	1-218-937-11	METAL CHIP	47	5%	1/16W
R1560	1-218-937-11	METAL CHIP	47	5%	1/16W
R1561	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1562	1-218-937-11	METAL CHIP	47	5%	1/16W
R1563	1-218-937-11	METAL CHIP	47	5%	1/16W
R1564	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1566	1-218-990-81	SHORT CHIP	0		
R1567	1-218-990-81	SHORT CHIP	0		
R1568	1-218-937-11	METAL CHIP	47	5%	1/16W
R1569	1-218-937-11	METAL CHIP	47	5%	1/16W
R1570	1-218-937-11	METAL CHIP	47	5%	1/16W
R1571	1-218-937-11	METAL CHIP	47	5%	1/16W
R1572	1-218-937-11	METAL CHIP	47	5%	1/16W
R1573	1-218-965-11	METAL CHIP	10K	5%	1/16W
* R1574	1-250-589-11	METAL CHIP	75	1%	1/10W
* R1575	1-250-589-11	METAL CHIP	75	1%	1/10W
R1576	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
R1577	1-218-941-81	METAL CHIP	100	5%	1/16W
R1579	1-216-864-11	SHORT CHIP	0		
R1581	1-216-864-11	SHORT CHIP	0		
R1582	1-216-864-11	SHORT CHIP	0		
R1583	1-216-864-11	SHORT CHIP	0		
R1584	1-216-864-11	SHORT CHIP	0		
R1585	1-218-990-81	SHORT CHIP	0		
R1586	1-218-990-81	SHORT CHIP	0		
R1587	1-218-990-81	SHORT CHIP	0		
R1588	1-218-990-81	SHORT CHIP	0		
R1589	1-218-990-81	SHORT CHIP	0		
R1590	1-218-990-81	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R1591	1-218-990-81	SHORT CHIP	0		
R1592	1-218-990-81	SHORT CHIP	0		
R1593	1-218-990-81	SHORT CHIP	0		
R1594	1-218-990-81	SHORT CHIP	0		
R1595	1-218-990-81	SHORT CHIP	0		
R1596	1-218-990-81	SHORT CHIP	0		
R1597	1-218-990-81	SHORT CHIP	0		
R1598	1-218-990-81	SHORT CHIP	0		
R1599	1-218-990-81	SHORT CHIP	0		
		< TRANSFORMER >			
T1501	1-697-310-11	PULSE TRANSFORMER			
T1502	1-697-310-11	PULSE TRANSFORMER			
**********					
		LCD BOARD			
		**********			
		< CAPACITOR >			
C5301	1-100-916-11	CERAMIC CHIP	0.1uF	10%	16V
C5302	1-100-916-11	CERAMIC CHIP	0.1uF	10%	16V
C5303	1-100-905-11	CERAMIC CHIP	0.001uF	10%	50V
C5304	1-112-779-11	CERAMIC CHIP	0.047uF	10%	25V
		< CONNECTOR >			
CN5301	1-820-843-51	CONNECTOR, FFC/FPC 4P			
CN5303	1-817-199-51	CONNECTOR, FFC/FPC 9P			
		< LED >			
D5301	6-501-830-21	LED 1L034XW32B0CTE02 (LCD BACK LIGHT)			
		< IC >			
IC5301	6-718-829-02	IC PT16511-LQ			
		< LIQUID CRYSTAL DISPLAY >			
ND5301	1-811-963-11	DISPLAY PANEL LIQUID CRYSTAL			
		< TRANSISTOR >			
Q5301	6-553-268-01	TRANSISTOR	PDTC114ET		
Q5303	6-553-268-01	TRANSISTOR	PDTC114ET		
		< RESISTOR >			
R5302	1-218-942-11	METAL CHIP	120	5%	1/16W
R5303	1-218-942-11	METAL CHIP	120	5%	1/16W
R5304	1-218-941-81	METAL CHIP	100	5%	1/16W
R5310	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R5311	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R5312	1-218-972-11	METAL CHIP	39K	5%	1/16W
R5313	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R5314	1-218-941-81	METAL CHIP	100	5%	1/16W
R5315	1-218-941-81	METAL CHIP	100	5%	1/16W
R5316	1-218-941-81	METAL CHIP	100	5%	1/16W
R5317	1-218-941-81	METAL CHIP	100	5%	1/16W
R5321	1-218-947-11	METAL CHIP	330	5%	1/16W
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Ref. No.	Part No.	Description			Remark
	A-1987-631-A	MAIN BOARD, COMPLETE (X7CD: AEP)			
	A-1987-634-A	MAIN BOARD, COMPLETE (X7CDB)			
	A-1987-635-A	MAIN BOARD, COMPLETE (X5CD: AEP)			
	A-1987-636-A	MAIN BOARD, COMPLETE (X5CD: US, CND)			
	A-1987-638-A	MAIN BOARD, COMPLETE (X5CDB: AEP, UK)			
	A-2042-713-A	MAIN BOARD, COMPLETE (X7CD: CH)			
	A-2042-714-A	MAIN BOARD, COMPLETE (X5CD: RU)			
	A-2042-715-A	MAIN BOARD, COMPLETE (X5CD: KR)			
	A-2042-716-A	MAIN BOARD, COMPLETE (X5CD: SP)			
	A-2042-719-A	MAIN BOARD, COMPLETE (X5CDB: AUS)			
		**********			
		< CAPACITOR >			
C001	1-100-916-11	CERAMIC CHIP	0.1uF	10% 16V	
C002	1-112-717-91	CERAMIC CHIP	1uF	10% 6.3V	
C003	1-119-923-11	CERAMIC CHIP	0.047uF	10% 10V	
C004	1-116-344-11	ELECT CHIP	330uF	20% 6.3V	(X5CD/X7CD)
C005	1-100-905-11	CERAMIC CHIP	0.001uF	10% 50V	(X7CD/X7CDB)
C006	1-100-916-11	CERAMIC CHIP	0.1uF	10% 16V	(X7CD/X7CDB)
C009	1-112-717-91	CERAMIC CHIP	1uF	10% 6.3V	
C010	1-100-916-11	CERAMIC CHIP	0.1uF	10% 16V	
C011	1-112-717-91	CERAMIC CHIP	1uF	10% 6.3V	
C012	1-100-916-11	CERAMIC CHIP	0.1uF	10% 16V	
C014	1-100-916-11	CERAMIC CHIP	0.1uF	10% 16V	
C015	1-164-882-11	CERAMIC CHIP	220PF	5% 16V	
C016	1-164-882-11	CERAMIC CHIP	220PF	5% 16V	
C017	1-164-882-11	CERAMIC CHIP	220PF	5% 16V	
C020	1-100-905-11	CERAMIC CHIP	0.001uF	10% 50V	
C021	1-100-916-11	CERAMIC CHIP	0.1uF	10% 16V	
C022	1-100-905-11	CERAMIC CHIP	0.001uF	10% 50V	
C023	1-100-916-11	CERAMIC CHIP	0.1uF	10% 16V	
C024	1-112-717-91	CERAMIC CHIP	1uF	10% 6.3V	
C025	1-100-905-11	CERAMIC CHIP	0.001uF	10% 50V	
C026	1-100-916-11	CERAMIC CHIP	0.1uF	10% 16V	
C027	1-112-717-91	CERAMIC CHIP	1uF	10% 6.3V	
C035	1-116-708-11	CERAMIC CHIP	47uF	20% 6.3V	
C203	1-118-386-11	CERAMIC CHIP	0.1uF	10% 16V	
C204	1-118-391-11	CERAMIC CHIP	0.01uF	10% 50V	
C207	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C210	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C211	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C212	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C213	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C214	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C215	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C216	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C217	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C218	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C219	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C220	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C221	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C222	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C223	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C224	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C225	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C226	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C227	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C228	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C229	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C230	1-164-850-11	CERAMIC CHIP	10PF	0.5PF 50V	
C231	1-164-850-11	CERAMIC CHIP	10PF	0.5PF 50V	
C232	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C233	1-116-717-11	CERAMIC CHIP	10uF	20% 10V	
C234	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C235	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C236	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C237	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C238	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C239	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C240	1-164-850-11	CERAMIC CHIP	10PF	0.5PF 50V	
C241	1-164-850-11	CERAMIC CHIP	10PF	0.5PF 50V	
C242	1-164-858-11	CERAMIC CHIP	22PF	5% 50V	
C243	1-164-858-11	CERAMIC CHIP	22PF	5% 50V	
C244	1-117-681-11	ELECT CHIP	100uF	20% 16V	
C245	1-117-681-11	ELECT CHIP	100uF	20% 16V	
C249	1-118-347-11	CERAMIC CHIP	0.1uF	10% 25V	
C250	1-118-395-11	CERAMIC CHIP	0.0047uF	10% 50V	
C251	1-164-874-11	CERAMIC CHIP	100PF	5% 50V	
C252	1-164-874-11	CERAMIC CHIP	100PF	5% 50V	
C255	1-164-874-11	CERAMIC CHIP	100PF	5% 50V	(X5CD/X7CD)
C256	1-164-874-11	CERAMIC CHIP	100PF	5% 50V	(X5CD/X7CD)
C258	1-164-874-11	CERAMIC CHIP	100PF	5% 50V	(X5CD/X7CD)
C265	1-118-386-11	CERAMIC CHIP	0.1uF	10% 16V	
C501	1-118-386-11	CERAMIC CHIP	0.1uF	10% 16V	
C502	1-118-386-11	CERAMIC CHIP	0.1uF	10% 16V	
C504	1-118-403-11	CERAMIC CHIP	0.001uF	10% 50V	
C507	1-118-403-11	CERAMIC CHIP	0.001uF	10% 50V	
C513	1-118-386-11	CERAMIC CHIP	0.1uF	10% 16V	
* C514	1-116-738-11	CERAMIC CHIP	1uF	10% 6.3V	
C515	1-118-386-11	CERAMIC CHIP	0.1uF	10% 16V	
C516	1-118-391-11	CERAMIC CHIP	0.01uF	10% 50V	
* C517	1-116-738-11	CERAMIC CHIP	1uF	10% 6.3V	
C518	1-118-386-11	CERAMIC CHIP	0.1uF	10% 16V	
C520	1-116-717-11	CERAMIC CHIP	10uF	20% 10V	
C521	1-118-403-11	CERAMIC CHIP	0.001uF	10% 50V	
C522	1-118-403-11	CERAMIC CHIP	0.001uF	10% 50V	
C523	1-116-717-11	CERAMIC CHIP	10uF	20% 10V	
C524	1-118-386-11	CERAMIC CHIP	0.1uF	10% 16V	
C526	1-164-852-11	CERAMIC CHIP	12PF	5% 50V	
C527	1-164-850-11	CERAMIC CHIP	10PF	0.5PF 50V	
C531	1-118-391-11	CERAMIC CHIP	0.01uF	10% 50V	
C532	1-118-391-11	CERAMIC CHIP	0.01uF	10% 50V	
C533	1-118-386-11	CERAMIC CHIP	0.1uF	10% 16V	
C534	1-116-717-11	CERAMIC CHIP	10uF	20% 10V	
C536	1-118-386-11	CERAMIC CHIP	0.1uF	10% 16V	
C538	1-114-214-81	CERAMIC CHIP	470PF	5% 50V	
C540	1-114-214-81	CERAMIC CHIP	470PF	5% 50V	
C541	1-114-214-81	CERAMIC CHIP	470PF	5% 50V	
C542	1-114-214-81	CERAMIC CHIP	470PF	5% 50V	
C543	1-118-391-11	CERAMIC CHIP	0.01uF	10% 50V	
C544	1-114-214-81	CERAMIC CHIP	470PF	5% 50V	
* C545	1-116-738-11	CERAMIC CHIP	1uF	10% 6.3V	
C547	1-118-386-11	CERAMIC CHIP	0.1uF	10% 16V	
C548	1-118-391-11	CERAMIC CHIP	0.01uF	10% 50V	
* C549	1-116-738-11	CERAMIC CHIP	1uF	10% 6.3V	
C550	1-116-717-11	CERAMIC CHIP	10uF	20% 10V	

MAIN

	Ref. No.	Part No.	Description			Remark
	C551	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
	C553	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C554	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C555	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C556	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C557	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C558	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C559	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C560	1-116-708-11	CERAMIC CHIP	47uF	20%	6.3V
	C561	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C562	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C563	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C564	1-116-708-11	CERAMIC CHIP	47uF	20%	6.3V
	C566	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C567	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C568	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C569	1-116-717-11	CERAMIC CHIP	10uF	20%	10V
	C570	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C571	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C572	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
*	C573	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C574	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C575	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
*	C576	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C577	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
	C578	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
	C601	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
*	C602	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C603	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C604	1-118-388-11	CERAMIC CHIP	0.047uF	10%	25V
	C605	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
*	C606	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C607	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C610	1-116-865-11	CERAMIC CHIP	10uF	10%	25V
*	C611	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
	C612	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C619	1-116-865-11	CERAMIC CHIP	10uF	10%	25V
*	C620	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
	C621	1-116-865-11	CERAMIC CHIP	10uF	10%	25V
*	C622	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
	C623	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C624	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C626	1-116-742-11	CERAMIC CHIP	0.22uF	10%	25V
	C628	1-116-742-11	CERAMIC CHIP	0.22uF	10%	25V
*	C629	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
	C631	1-116-742-11	CERAMIC CHIP	0.22uF	10%	25V
	C633	1-116-742-11	CERAMIC CHIP	0.22uF	10%	25V
*	C634	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
	C636	1-116-865-11	CERAMIC CHIP	10uF	10%	25V
	C638	1-114-552-21	ELECT CHIP	100uF	20%	35V
	C639	1-114-552-21	ELECT CHIP	100uF	20%	35V
	C640	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V
	C641	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V
	C650	1-118-042-11	CERAMIC CHIP	0.22uF	10%	50V
	C651	1-118-042-11	CERAMIC CHIP	0.22uF	10%	50V
	C652	1-118-042-11	CERAMIC CHIP	0.22uF	10%	50V
	C653	1-118-042-11	CERAMIC CHIP	0.22uF	10%	50V
*	C654	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
*	C655	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
*	C656	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V

	Ref. No.	Part No.	Description			Remark
*	C657	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
	C658	1-116-717-11	CERAMIC CHIP	10uF	20%	10V
	C659	1-116-717-11	CERAMIC CHIP	10uF	20%	10V
	C662	1-118-395-11	CERAMIC CHIP	0.0047uF	10%	50V
	C663	1-118-395-11	CERAMIC CHIP	0.0047uF	10%	50V
	C664	1-118-395-11	CERAMIC CHIP	0.0047uF	10%	50V
	C665	1-118-395-11	CERAMIC CHIP	0.0047uF	10%	50V
	C666	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C667	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C668	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C673	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V
	C678	1-118-039-11	CERAMIC CHIP	1uF	10%	25V
	C679	1-118-039-11	CERAMIC CHIP	1uF	10%	25V
	C680	1-118-039-11	CERAMIC CHIP	1uF	10%	25V
	C681	1-118-039-11	CERAMIC CHIP	1uF	10%	25V
	C682	1-114-552-21	ELECT CHIP	100uF	20%	35V
	C683	1-114-552-21	ELECT CHIP	100uF	20%	35V
	C684	1-114-552-21	ELECT CHIP	100uF	20%	35V
	C713	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C714	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C719	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C725	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C728	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C732	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C734	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C735	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C736	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C737	1-116-717-11	CERAMIC CHIP	10uF	20%	10V
	C738	1-165-492-21	ELECT CHIP	100uF	20%	10V
	C740	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V
	C741	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C742	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C743	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V
	C744	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V (X7CD/X7CDB)
	C745	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V (X5CD/X7CD)
	C746	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C747	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C748	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V (X5CD/X7CD)
	C749	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C851	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C852	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C854	1-165-492-21	ELECT CHIP	100uF	20%	10V
	C855	1-118-410-11	CERAMIC CHIP	330PF	10%	50V
*	C856	1-118-390-11	CERAMIC CHIP	0.015uF	10%	25V
	C857	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C858	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C859	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C860	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C861	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C862	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C863	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C865	1-165-492-21	ELECT CHIP	100uF	20%	10V
	C867	1-118-410-11	CERAMIC CHIP	330PF	10%	50V
	C868	1-165-492-21	ELECT CHIP	100uF	20%	10V
	C869	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C870	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C872	1-165-492-21	ELECT CHIP	100uF	20%	10V

Ref. No.	Part No.	Description			Remark
C873	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
C878	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C879	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C901	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C905	1-116-733-11	CERAMIC CHIP	1uF	10%	25V
C910	1-114-552-21	ELECT CHIP	100uF	20%	35V
C912	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C913	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V (X7CD/X7CDB)
C914	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
C915	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V (X7CD/X7CDB)
C917	1-116-721-11	CERAMIC CHIP	4.7uF	10%	25V (X7CD/X7CDB)
C918	1-116-721-11	CERAMIC CHIP	4.7uF	10%	25V
C919	1-116-721-11	CERAMIC CHIP	4.7uF	10%	25V (X7CD/X7CDB)
C920	1-116-721-11	CERAMIC CHIP	4.7uF	10%	25V
C921	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V (X7CD/X7CDB)
C922	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
* C925	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V (X7CD/X7CDB)
* C928	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
C929	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C930	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C932	1-164-852-11	CERAMIC CHIP	12PF	5%	50V
C933	1-164-852-11	CERAMIC CHIP	12PF	5%	50V (X7CD/X7CDB)
C934	1-164-882-11	CERAMIC CHIP	220PF	5%	16V
* C935	1-116-714-11	CERAMIC CHIP	22uF	20%	6.3V
C937	1-164-882-11	CERAMIC CHIP	220PF	5%	16V (X7CD/X7CDB)
C941	1-116-865-11	CERAMIC CHIP	10uF	10%	25V
C943	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V
C946	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V (X7CD/X7CDB)
C947	1-116-717-11	CERAMIC CHIP	10uF	20%	10V
* C949	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
C950	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C958	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
* C960	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
C961	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C963	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C966	1-116-717-11	CERAMIC CHIP	10uF	20%	10V
C971	1-117-681-11	ELECT CHIP	100uF	20%	16V
C973	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V
* C975	1-116-714-11	CERAMIC CHIP	22uF	20%	6.3V
* C976	1-116-714-11	CERAMIC CHIP	22uF	20%	6.3V (X7CD/X7CDB)
* C977	1-116-714-11	CERAMIC CHIP	22uF	20%	6.3V (X7CD/X7CDB)
C978	1-116-865-11	CERAMIC CHIP	10uF	10%	25V
* C982	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C983	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
C985	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
* C986	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
C990	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C991	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C996	1-116-717-11	CERAMIC CHIP	10uF	20%	10V
C997	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C998	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remark
* C999	1-116-714-11	CERAMIC CHIP	22uF	20%	6.3V
* C1000	1-116-714-11	CERAMIC CHIP	22uF	20%	6.3V
C1002	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
C1003	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
C1005	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V
C1006	1-114-552-21	ELECT CHIP	100uF	20%	35V
		< CONNECTOR >			
CN002	1-820-112-41	CONNECTOR, FFC/FPC 9P			
CN004	1-785-466-41	CONNECTOR, FFC/FPC 7P			
CN005	1-815-762-31	CONNECTOR, FFC/FPC (LIF) 14P			
CN007	1-764-250-21	PIN, CONNECTOR (PC BOARD) 4P			
CN008	1-820-119-41	CONNECTOR, FFC/FPC 21P (X7CD/X7CDB)			
CN009	1-820-384-31	CONNECTOR, FFC/FPC (LIF) 8P			
CN010	1-820-112-41	CONNECTOR, FFC/FPC 9P			
CN202	1-779-071-41	CONNECTOR, FFC/FPC 16P			
CN502	1-785-466-41	CONNECTOR, FFC/FPC 7P			
CN503	1-843-557-11	FFC ST CONNECTOR (NON-ZIF) 24P			
CN504	1-580-789-21	PIN, CONNECTOR (SMD) 6P			
CN601	1-764-250-21	PIN, CONNECTOR (PC BOARD) 4P			
CN702	1-794-509-11	PIN, CONNECTOR (PC BOARD) (3P)			
CN703	1-794-509-11	PIN, CONNECTOR (PC BOARD) (3P)			
CN851	1-770-161-21	PIN, CONNECTOR (PC BOARD) 6P			
* CN901	1-750-005-11	PIN, CONNECTOR (PC BOARD) 4P			
CN904	1-794-236-51	CONNECTOR, FFC/FPC 15P			
		< DIODE >			
D001	6-502-961-01	DIODE DA2J10100L			
D601	6-502-961-01	DIODE DA2J10100L			
D851	8-719-069-29	DIODE RB520S-30FJTE61			
D852	8-719-069-29	DIODE RB520S-30FJTE61			
D901	6-502-961-01	DIODE DA2J10100L			
D902	6-503-037-01	DIODE DZ2J24000L			
D903	6-502-961-01	DIODE DA2J10100L			
D904	6-500-514-01	DIODE BAV70			
D905	6-502-945-01	DIODE CRH01 (TE85R, Q)			
D906	6-502-961-01	DIODE DA2J10100L			
D907	6-503-705-01	DIODE SJPJ-L3SVL			
D908	6-503-705-01	DIODE SJPJ-L3SVL (X7CD/X7CDB)			
D910	6-502-970-01	DIODE DZ2J068M0L			
D911	6-502-966-01	DIODE DZ2J056M0L (X7CD/X7CDB)			
D912	6-503-857-01	DIODE BAW56			
D914	6-502-961-01	DIODE DA2J10100L			
D915	6-502-961-01	DIODE DA2J10100L (X7CD/X7CDB)			
D916	6-502-961-01	DIODE DA2J10100L			
D918	6-502-966-01	DIODE DZ2J056M0L			
D919	6-503-857-01	DIODE BAW56			
		< FERRITE BEAD >			
FB001	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB002	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB200	1-469-118-21	FERRITE, EMI (SMD) (1608)			
FB201	1-414-445-11	FERRITE, EMI (SMD) (1608)			
FB202	1-414-445-11	FERRITE, EMI (SMD) (1608)			
FB203	1-414-445-11	FERRITE, EMI (SMD) (1608) (X5CD/X7CD)			
FB204	1-414-445-11	FERRITE, EMI (SMD) (1608) (X5CD/X7CD)			
FB205	1-414-445-11	FERRITE, EMI (SMD) (1608) (X5CD/X7CD)			
FB206	1-414-445-11	FERRITE, EMI (SMD) (1608) (X5CD/X7CD)			
FB502	1-481-348-21	EMI FERRITE (SMD) (1608)			
FB514	1-481-348-21	EMI FERRITE (SMD) (1608)			

MAIN

Ref. No.	Part No.	Description	Remark
FB516	1-400-580-21	FERRITE, EMI (SMD)	
FB517	1-481-348-21	EMI FERRITE (SMD) (1608)	
FB518	1-481-348-21	EMI FERRITE (SMD) (1608)	
FB703	1-481-348-21	EMI FERRITE (SMD) (1608)	
FB706	1-481-348-21	EMI FERRITE (SMD) (1608)	
		< FILTER >	
FL501	1-234-494-21	FILTER, EMI REMOVAL (SMD)	
		< IC >	
IC005	6-717-694-01	IC BU33TD3WG-TR	
IC202	(Not supplied)	IC MFI337S3959 (See Note)	
IC203	(Not supplied)	IC MX25L6435EM2I-10G (See Note)	
IC204	6-721-341-01	IC R7S7200032CFP	
IC205	6-719-856-01	IC BU4229F-TR	
IC501	6-712-033-01	IC MM1701CHBE	
IC502	(Not supplied)	IC W25Q16CVSSIG-R (See Note)	
IC503	6-718-440-01	IC CXD90013R	
IC504	6-720-801-01	IC EM638165TSD-6G	
IC505	6-716-832-01	IC MM3374A33PRE	
IC601	6-717-694-01	IC BU33TD3WG-TR	
IC602	(Not supplied)	IC TAS5760MDAPR (See Note)	
IC706	6-710-554-01	IC PCM1808PWR	
IC707	6-717-694-01	IC BU33TD3WG-TR	
IC708	8-759-524-29	IC TC74VHC257FT (EL) (X7CD/X7CDB)	
IC709	8-759-524-09	IC TC74VHC153FT (EL)	
IC710	8-759-524-09	IC TC74VHC153FT (EL)	
IC711	8-759-598-43	IC TC7WH04FK (X5CD/X7CD)	
IC712	8-759-598-43	IC TC7WH04FK (X5CD/X7CD)	
IC851	(Not supplied)	IC BD00GA3WEFJ-E2 (See Note)	
IC852	6-720-195-01	IC AM5890S	
IC901	8-759-338-95	IC NJM2903V (TE2)	
* IC902	6-718-479-11	IC TPS54332CDDAR	
* IC903	6-718-479-11	IC TPS54332CDDAR (X7CD/X7CDB)	
IC905	6-716-832-01	IC MM3374A33PRE	
IC907	(Not supplied)	IC BD9A100MUV-E2 (See Note)	
		< JUMPER RESISTOR >	
JC007	1-216-864-11	SHORT CHIP 0	
JC008	1-216-864-11	SHORT CHIP 0	
JC009	1-216-864-11	SHORT CHIP 0	
JC010	1-216-864-11	SHORT CHIP 0	
JC011	1-216-864-11	SHORT CHIP 0	
JC013	1-216-864-11	SHORT CHIP 0	
JC015	1-216-864-11	SHORT CHIP 0	
		< COIL >	
L601	1-460-503-11	COIL, CHOKE 10uH	
L603	1-460-503-11	COIL, CHOKE 10uH	
L604	1-460-503-11	COIL, CHOKE 10uH	
L606	1-460-503-11	COIL, CHOKE 10uH	
L901	1-460-503-11	COIL, CHOKE 10uH	
L902	1-460-503-11	COIL, CHOKE 10uH (X7CD/X7CDB)	
L905	1-469-757-21	INDUCTOR 10uH	
L906	1-481-926-11	INDUCTOR 2.2uH	
		< TRANSISTOR >	
Q001	6-552-891-01	TRANSISTOR LSAR523UBFS8TL	
Q002	6-553-283-01	TRANSISTOR PDTC143ZT	
Q005	6-552-922-01	TRANSISTOR LTA014EUBFS8TL	(X7CD/X7CDB)
Q006	6-552-936-01	TRANSISTOR LTC014EUBFS8TL	(X7CD/X7CDB)
Q601	6-552-892-01	TRANSISTOR LSCR523UBFS8TL	
Q602	8-729-013-22	TRANSISTOR HN1A01FU	
Q603	8-729-013-22	TRANSISTOR HN1A01FU	
Q851	6-551-120-01	TRANSISTOR 2SA2119K	
Q852	6-551-120-01	TRANSISTOR 2SA2119K	
Q901	6-552-891-01	TRANSISTOR LSAR523UBFS8TL	
Q903	6-552-892-01	TRANSISTOR LSCR523UBFS8TL	
Q904	6-552-891-01	TRANSISTOR LSAR523UBFS8TL	
Q905	6-552-991-01	FET RQ1E050RPTR	
Q906	6-552-936-01	TRANSISTOR LTC014EUBFS8TL	
Q907	6-552-991-01	FET RQ1E050RPTR	
Q908	6-552-936-01	TRANSISTOR LTC014EUBFS8TL	
Q909	6-553-057-01	FET PMV48XP, 215	
Q910	6-552-892-01	TRANSISTOR LSCR523UBFS8TL	
Q911	6-552-891-01	TRANSISTOR LSAR523UBFS8TL	
Q912	6-552-922-01	TRANSISTOR LTA014EUBFS8TL	
Q913	6-552-936-01	TRANSISTOR LTC014EUBFS8TL	
		< RESISTOR/FERRITE BEAD >	
R002	1-218-941-81	METAL CHIP 100 5% 1/16W	(X5CDB/X7CDB)
R003	1-481-746-11	SDM EMI FERRITE (X5CD/X7CD)	
R008	1-218-941-81	METAL CHIP 100 5% 1/16W	(X5CDB/X7CDB)
R009	1-481-746-11	SDM EMI FERRITE (X5CD/X7CD)	
R010	1-218-929-11	METAL CHIP 10 5% 1/16W	
R011	1-218-941-81	METAL CHIP 100 5% 1/16W	(X5CDB/X7CDB)
R012	1-481-746-11	SDM EMI FERRITE (X5CD/X7CD)	
R015	1-218-941-81	METAL CHIP 100 5% 1/16W	(X7CD/X7CDB)
R016	1-218-941-81	METAL CHIP 100 5% 1/16W	(X7CD/X7CDB)
R017	1-218-941-81	METAL CHIP 100 5% 1/16W	(X7CD/X7CDB)
R018	1-218-941-81	METAL CHIP 100 5% 1/16W	(X7CD/X7CDB)
R019	1-218-941-81	METAL CHIP 100 5% 1/16W	(X7CD/X7CDB)
R020	1-218-941-81	METAL CHIP 100 5% 1/16W	(X7CD/X7CDB)
R021	1-218-941-81	METAL CHIP 100 5% 1/16W	(X7CD/X7CDB)
R022	1-218-941-81	METAL CHIP 100 5% 1/16W	(X7CD/X7CDB)
R023	1-218-941-81	METAL CHIP 100 5% 1/16W	(X7CD/X7CDB)
R024	1-218-941-81	METAL CHIP 100 5% 1/16W	(X7CD/X7CDB)
R025	1-218-941-81	METAL CHIP 100 5% 1/16W	(X7CD/X7CDB)
R026	1-218-941-81	METAL CHIP 100 5% 1/16W	(X7CD/X7CDB)
R027	1-218-937-11	METAL CHIP 47 5% 1/16W	(X7CD/X7CDB)
R028	1-218-937-11	METAL CHIP 47 5% 1/16W	(X7CD/X7CDB)
R029	1-218-937-11	METAL CHIP 47 5% 1/16W	(X7CD/X7CDB)

Note: IC202, IC203, IC502, IC602, IC851 and IC907 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

Ref. No.	Part No.	Description			Remark
R030	1-216-864-11	SHORT CHIP	0 (X7CD/X7CDB)		
R031	1-216-864-11	SHORT CHIP	0 (X7CD/X7CDB)		
R032	1-218-969-11	METAL CHIP	22K	5%	1/16W
R033	1-218-941-81	METAL CHIP	100	5%	1/16W
R034	1-218-941-81	METAL CHIP	100	5%	1/16W
R035	1-218-941-81	METAL CHIP	100	5%	1/16W
R036	1-218-941-81	METAL CHIP	100	5%	1/16W
R037	1-218-937-11	METAL CHIP	47	5%	1/16W
R038	1-218-937-11	METAL CHIP	47	5%	1/16W
R039	1-218-937-11	METAL CHIP	47	5%	1/16W
R040	1-218-941-81	METAL CHIP	100	5%	1/16W
R041	1-218-941-81	METAL CHIP	100	5%	1/16W
R042	1-218-941-81	METAL CHIP	100	5%	1/16W
R043	1-218-941-81	METAL CHIP	100	5%	1/16W
R044	1-218-941-81	METAL CHIP	100	5%	1/16W
R045	1-218-941-81	METAL CHIP	100	5%	1/16W
R047	1-218-981-81	METAL CHIP	220K	5%	1/16W
R048	1-218-981-81	METAL CHIP	220K	5%	1/16W
R049	1-218-941-81	METAL CHIP	100	5%	1/16W
R050	1-218-941-81	METAL CHIP	100	5%	1/16W
R051	1-218-941-81	METAL CHIP	100	5%	1/16W
R052	1-218-941-81	METAL CHIP	100	5%	1/16W
R053	1-218-941-81	METAL CHIP	100	5%	1/16W
R054	1-218-981-81	METAL CHIP	220K	5%	1/16W
R055	1-218-941-81	METAL CHIP	100	5%	1/16W
R056	1-218-941-81	METAL CHIP	100	5%	1/16W
R057	1-218-941-81	METAL CHIP	100	5%	1/16W
R058	1-218-941-81	METAL CHIP	100	5%	1/16W
R059	1-218-941-81	METAL CHIP	100	5%	1/16W
R060	1-218-941-81	METAL CHIP	100	5%	1/16W
R061	1-216-864-11	SHORT CHIP	0		
R063	1-216-864-11	SHORT CHIP	0		
R064	1-216-864-11	SHORT CHIP	0		
R066	1-216-864-11	SHORT CHIP	0		
R067	1-218-446-11	METAL CHIP	1	5%	1/10W
R073	1-218-953-11	METAL CHIP	1K	5%	1/16W (X7CD/X7CDB)
R201	1-218-973-11	METAL CHIP	47K	5%	1/16W
R202	1-218-941-81	METAL CHIP	100	5%	1/16W
R203	1-218-941-81	METAL CHIP	100	5%	1/16W
R206	1-218-941-81	METAL CHIP	100	5%	1/16W
R207	1-218-941-81	METAL CHIP	100	5%	1/16W
R208	1-218-973-11	METAL CHIP	47K	5%	1/16W
R209	1-218-941-81	METAL CHIP	100	5%	1/16W
R210	1-218-941-81	METAL CHIP	100	5%	1/16W
R211	1-218-941-81	METAL CHIP	100	5%	1/16W
R212	1-218-941-81	METAL CHIP	100	5%	1/16W
R213	1-218-941-81	METAL CHIP	100	5%	1/16W
R214	1-218-941-81	METAL CHIP	100	5%	1/16W
R215	1-218-941-81	METAL CHIP	100	5%	1/16W
R216	1-218-941-81	METAL CHIP	100	5%	1/16W
R217	1-218-941-81	METAL CHIP	100	5%	1/16W (X7CD/X7CDB)
R218	1-218-941-81	METAL CHIP	100	5%	1/16W (X7CD/X7CDB)
R219	1-218-941-81	METAL CHIP	100	5%	1/16W (X7CD/X7CDB)
R221	1-218-941-81	METAL CHIP	100	5%	1/16W
R222	1-218-941-81	METAL CHIP	100	5%	1/16W
R223	1-218-941-81	METAL CHIP	100	5%	1/16W

Ref. No.	Part No.	Description			Remark
R224	1-218-941-81	METAL CHIP	100	5%	1/16W (X7CD/X7CDB)
R225	1-218-941-81	METAL CHIP	100	5%	1/16W
R226	1-218-941-81	METAL CHIP	100	5%	1/16W
R227	1-218-941-81	METAL CHIP	100	5%	1/16W
R229	1-218-941-81	METAL CHIP	100	5%	1/16W
R230	1-218-941-81	METAL CHIP	100	5%	1/16W
R231	1-218-941-81	METAL CHIP	100	5%	1/16W
R232	1-218-941-81	METAL CHIP	100	5%	1/16W
R233	1-218-941-81	METAL CHIP	100	5%	1/16W
R234	1-218-941-81	METAL CHIP	100	5%	1/16W
R235	1-218-941-81	METAL CHIP	100	5%	1/16W
R236	1-218-941-81	METAL CHIP	100	5%	1/16W (X7CD/X7CDB)
R237	1-218-941-81	METAL CHIP	100	5%	1/16W (X7CD/X7CDB)
R238	1-218-941-81	METAL CHIP	100	5%	1/16W (X7CD/X7CDB)
R239	1-218-941-81	METAL CHIP	100	5%	1/16W (X7CD/X7CDB)
R240	1-218-941-81	METAL CHIP	100	5%	1/16W
R241	1-218-941-81	METAL CHIP	100	5%	1/16W
R242	1-218-941-81	METAL CHIP	100	5%	1/16W
R243	1-218-941-81	METAL CHIP	100	5%	1/16W
R246	1-218-941-81	METAL CHIP	100	5%	1/16W
R247	1-218-941-81	METAL CHIP	100	5%	1/16W
R248	1-218-941-81	METAL CHIP	100	5%	1/16W
R249	1-218-941-81	METAL CHIP	100	5%	1/16W
R251	1-218-941-81	METAL CHIP	100	5%	1/16W
R252	1-218-941-81	METAL CHIP	100	5%	1/16W
R253	1-218-941-81	METAL CHIP	100	5%	1/16W (X7CD/X7CDB)
R256	1-218-965-11	METAL CHIP	10K	5%	1/16W
R258	1-218-941-81	METAL CHIP	100	5%	1/16W
R261	1-218-941-81	METAL CHIP	100	5%	1/16W
R262	1-218-941-81	METAL CHIP	100	5%	1/16W (X7CD/X7CDB)
R263	1-218-941-81	METAL CHIP	100	5%	1/16W
R264	1-218-941-81	METAL CHIP	100	5%	1/16W
R266	1-218-941-81	METAL CHIP	100	5%	1/16W
R268	1-218-941-81	METAL CHIP	100	5%	1/16W
R272	1-218-941-81	METAL CHIP	100	5%	1/16W
R277	1-218-941-81	METAL CHIP	100	5%	1/16W
R278	1-218-941-81	METAL CHIP	100	5%	1/16W
R279	1-218-941-81	METAL CHIP	100	5%	1/16W
R280	1-218-941-81	METAL CHIP	100	5%	1/16W
R281	1-218-941-81	METAL CHIP	100	5%	1/16W
R287	1-218-973-11	METAL CHIP	47K	5%	1/16W
R290	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R295	1-218-965-11	METAL CHIP	10K	5%	1/16W (X5CD/X7CD)
R296	1-218-961-11	METAL CHIP	4.7K	5%	1/16W (X7CD/X7CDB)
R299	1-218-973-11	METAL CHIP	47K	5%	1/16W (X7CD/X7CDB)
R300	1-218-941-81	METAL CHIP	100	5%	1/16W
R301	1-218-941-81	METAL CHIP	100	5%	1/16W
R302	1-216-864-11	SHORT CHIP	0 (X5CDB/X7CDB)		
R303	1-216-864-11	SHORT CHIP	0 (X5CDB/X7CDB)		
R305	1-218-973-11	METAL CHIP	47K	5%	1/16W (X7CD/X7CDB)

MAIN

Ref. No.	Part No.	Description			Remark
R309	1-218-973-11	METAL CHIP	47K	5%	1/16W (X7CD/X7CDB)
R316	1-218-941-81	METAL CHIP	100	5%	1/16W
R317	1-218-941-81	METAL CHIP	100	5%	1/16W
R318	1-218-965-11	METAL CHIP	10K	5%	1/16W
R319	1-218-941-81	METAL CHIP	100	5%	1/16W (X7CD/X7CDB)
R320	1-218-941-81	METAL CHIP	100	5%	1/16W
R325	1-218-941-81	METAL CHIP	100	5%	1/16W
R326	1-218-941-81	METAL CHIP	100	5%	1/16W
R327	1-218-941-81	METAL CHIP	100	5%	1/16W
R328	1-218-965-11	METAL CHIP	10K	5%	1/16W
R329	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R330	1-218-941-81	METAL CHIP	100	5%	1/16W
R333	1-218-961-11	METAL CHIP	4.7K	5%	1/16W (X7CD/X7CDB)
R335	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R336	1-218-943-11	METAL CHIP	150	5%	1/16W (X5CD: RU)
R336	1-218-957-11	METAL CHIP	2.2K	5%	1/16W (X5CD: US, CND)
R336	1-218-961-11	METAL CHIP	4.7K	5%	1/16W (X5CD: AEP, KR/X5CDB/X7CD/X7CDB)
R337	1-218-955-11	METAL CHIP	1.5K	5%	1/16W (X5CDB: AUS)
R337	1-218-957-11	METAL CHIP	2.2K	5%	1/16W (X7CD: CH)
R337	1-218-959-11	METAL CHIP	3.3K	5%	1/16W (X5CD: KR)
R337	1-218-961-11	METAL CHIP	4.7K	5%	1/16W (X5CD: US, CND, RU, SP)
R340	1-218-965-11	METAL CHIP	10K	5%	1/16W
R347	1-218-941-81	METAL CHIP	100	5%	1/16W
R348	1-218-941-81	METAL CHIP	100	5%	1/16W
R349	1-218-941-81	METAL CHIP	100	5%	1/16W
R353	1-218-977-11	METAL CHIP	100K	5%	1/16W
R354	1-218-977-11	METAL CHIP	100K	5%	1/16W
R356	1-218-941-81	METAL CHIP	100	5%	1/16W
R357	1-218-941-81	METAL CHIP	100	5%	1/16W
R358	1-218-941-81	METAL CHIP	100	5%	1/16W
R359	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R360	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R361	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R362	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R363	1-218-961-11	METAL CHIP	4.7K	5%	1/16W (X5CD/X7CD)
R364	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R365	1-218-977-11	METAL CHIP	100K	5%	1/16W
R366	1-218-941-81	METAL CHIP	100	5%	1/16W
R367	1-218-941-81	METAL CHIP	100	5%	1/16W
R368	1-218-941-81	METAL CHIP	100	5%	1/16W
R369	1-218-941-81	METAL CHIP	100	5%	1/16W
R370	1-218-941-81	METAL CHIP	100	5%	1/16W
R371	1-218-941-81	METAL CHIP	100	5%	1/16W
R372	1-218-941-81	METAL CHIP	100	5%	1/16W
R373	1-218-990-81	SHORT CHIP	0		
R374	1-218-990-81	SHORT CHIP	0		
R375	1-218-990-81	SHORT CHIP	0		
R376	1-218-990-81	SHORT CHIP	0		
R377	1-218-990-81	SHORT CHIP	0		
R378	1-218-990-81	SHORT CHIP	0		
R380	1-208-905-11	METAL CHIP	5.6K	0.5%	1/16W
R382	1-218-941-81	METAL CHIP	100	5%	1/16W
R383	1-218-941-81	METAL CHIP	100	5%	1/16W
R384	1-218-941-81	METAL CHIP	100	5%	1/16W
R385	1-218-941-81	METAL CHIP	100	5%	1/16W
R386	1-218-941-81	METAL CHIP	100	5%	1/16W
R387	1-218-941-81	METAL CHIP	100	5%	1/16W
R388	1-218-941-81	METAL CHIP	100	5%	1/16W
R389	1-218-941-81	METAL CHIP	100	5%	1/16W
R390	1-218-965-11	METAL CHIP	10K	5%	1/16W
R391	1-218-965-11	METAL CHIP	10K	5%	1/16W
R392	1-218-965-11	METAL CHIP	10K	5%	1/16W
R393	1-218-965-11	METAL CHIP	10K	5%	1/16W
R394	1-218-965-11	METAL CHIP	10K	5%	1/16W
R396	1-218-965-11	METAL CHIP	10K	5%	1/16W
R397	1-218-990-81	SHORT CHIP	0		
R398	1-218-941-81	METAL CHIP	100	5%	1/16W
R399	1-218-989-11	METAL CHIP	1M	5%	1/16W
R400	1-218-977-11	METAL CHIP	100K	5%	1/16W
R401	1-218-989-11	METAL CHIP	1M	5%	1/16W
R403	1-218-941-81	METAL CHIP	100	5%	1/16W
R404	1-218-965-11	METAL CHIP	10K	5%	1/16W
R405	1-218-990-81	SHORT CHIP	0		
R406	1-218-990-81	SHORT CHIP	0		
R407	1-218-969-11	METAL CHIP	22K	5%	1/16W
R408	1-218-969-11	METAL CHIP	22K	5%	1/16W
R410	1-218-969-11	METAL CHIP	22K	5%	1/16W
R413	1-218-969-11	METAL CHIP	22K	5%	1/16W
R417	1-218-990-81	SHORT CHIP	0		
R418	1-218-977-11	METAL CHIP	100K	5%	1/16W
R419	1-218-990-81	SHORT CHIP	0		
R426	1-218-990-81	SHORT CHIP	0		
R430	1-218-973-11	METAL CHIP	47K	5%	1/16W (X5CD/X7CD)
R431	1-218-973-11	METAL CHIP	47K	5%	1/16W (X5CDB/X7CDB)
R436	1-218-941-81	METAL CHIP	100	5%	1/16W (X5CD/X7CD)
R437	1-218-941-81	METAL CHIP	100	5%	1/16W (X5CD/X7CD)
R438	1-218-990-81	SHORT CHIP	0 (X5CD/X7CD)		
R439	1-218-990-81	SHORT CHIP	0 (X5CD/X7CD)		
R440	1-218-990-81	SHORT CHIP	0 (X5CDB/X7CDB)		
R441	1-218-990-81	SHORT CHIP	0 (X5CDB/X7CDB)		
R442	1-218-941-81	METAL CHIP	100	5%	1/16W (X5CDB/X7CDB)
R443	1-218-941-81	METAL CHIP	100	5%	1/16W (X5CDB/X7CDB)
R444	1-216-864-11	SHORT CHIP	0 (X5CDB/X7CDB)		
R445	1-216-864-11	SHORT CHIP	0 (X5CDB/X7CDB)		
R446	1-218-941-81	METAL CHIP	100	5%	1/16W
R447	1-218-941-81	METAL CHIP	100	5%	1/16W
R448	1-218-990-81	SHORT CHIP	0 (X7CD/X7CDB)		
R449	1-218-990-81	SHORT CHIP	0 (X7CD/X7CDB)		
R450	1-218-990-81	SHORT CHIP	0 (X7CD/X7CDB)		
R451	1-218-990-81	SHORT CHIP	0 (X5CD/X5CDB)		
R452	1-218-990-81	SHORT CHIP	0 (X5CD/X5CDB)		
R453	1-218-990-81	SHORT CHIP	0 (X5CD/X5CDB)		
R455	1-218-981-81	METAL CHIP	220K	5%	1/16W
R456	1-218-965-11	METAL CHIP	10K	5%	1/16W
R459	1-218-990-81	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R460	1-218-961-11	METAL CHIP	4.7K	5%	1/16W (X5CDB/X7CDB)
R502	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R503	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R505	1-218-977-11	METAL CHIP	100K	5%	1/16W
R510	1-218-941-81	METAL CHIP	100	5%	1/16W
R511	1-218-941-81	METAL CHIP	100	5%	1/16W
R513	1-218-973-11	METAL CHIP	47K	5%	1/16W
R514	1-218-973-11	METAL CHIP	47K	5%	1/16W
R515	1-218-973-11	METAL CHIP	47K	5%	1/16W
R516	1-218-953-11	METAL CHIP	1K	5%	1/16W
R517	1-218-953-11	METAL CHIP	1K	5%	1/16W
R518	1-218-953-11	METAL CHIP	1K	5%	1/16W
R520	1-218-937-11	METAL CHIP	47	5%	1/16W
R522	1-218-965-11	METAL CHIP	10K	5%	1/16W
R523	1-216-864-11	SHORT CHIP	0		
R524	1-218-941-81	METAL CHIP	100	5%	1/16W
R525	1-218-953-11	METAL CHIP	1K	5%	1/16W
R526	1-216-864-11	SHORT CHIP	0		
R527	1-216-864-11	SHORT CHIP	0		
R528	1-216-864-11	SHORT CHIP	0		
R529	1-208-637-11	METAL CHIP	12	0.5%	1/16W
R530	1-218-990-81	SHORT CHIP	0		
R531	1-218-967-11	METAL CHIP	15K	5%	1/16W
R533	1-218-990-81	SHORT CHIP	0		
R535	1-250-633-11	METAL CHIP	5.1K	1%	1/10W
R536	1-218-937-11	METAL CHIP	47	5%	1/16W
R538	1-208-671-11	METAL CHIP	330	0.5%	1/16W
R539	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R540	1-218-937-11	METAL CHIP	47	5%	1/16W
R542	1-400-488-21	INDUCTOR, FERRITE BEAD (1005)			
R543	1-216-809-11	METAL CHIP	100	5%	1/10W
R544	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R545	1-216-809-11	METAL CHIP	100	5%	1/10W
R546	1-216-809-11	METAL CHIP	100	5%	1/10W
R547	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R548	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R550	1-216-809-11	METAL CHIP	100	5%	1/10W
R551	1-218-965-11	METAL CHIP	10K	5%	1/16W
R552	1-218-941-81	METAL CHIP	100	5%	1/16W
R554	1-216-809-11	METAL CHIP	100	5%	1/10W
R555	1-216-809-11	METAL CHIP	100	5%	1/10W
R556	1-216-809-11	METAL CHIP	100	5%	1/10W
R557	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R558	1-218-941-81	METAL CHIP	100	5%	1/16W
R559	1-218-953-11	METAL CHIP	1K	5%	1/16W
R560	1-218-941-81	METAL CHIP	100	5%	1/16W
R562	1-218-965-11	METAL CHIP	10K	5%	1/16W
R563	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R568	1-400-580-21	FERRITE, EMI (SMD)			
R570	1-216-809-11	METAL CHIP	100	5%	1/10W
R571	1-218-937-11	METAL CHIP	47	5%	1/16W
R572	1-218-950-11	METAL CHIP	560	5%	1/16W
R574	1-216-805-11	METAL CHIP	47	5%	1/10W
R576	1-218-965-11	METAL CHIP	10K	5%	1/16W
R580	1-216-864-11	SHORT CHIP	0		
R581	1-218-965-11	METAL CHIP	10K	5%	1/16W
R582	1-216-864-11	SHORT CHIP	0		
R583	1-216-864-11	SHORT CHIP	0		
R601	1-218-990-81	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R605	1-218-965-11	METAL CHIP	10K	5%	1/16W
R606	1-218-929-11	METAL CHIP	10	5%	1/16W
R609	1-216-864-11	SHORT CHIP	0		
R610	1-218-941-81	METAL CHIP	100	5%	1/16W
R612	1-218-941-81	METAL CHIP	100	5%	1/16W
R613	1-218-941-81	METAL CHIP	100	5%	1/16W
R614	1-218-941-81	METAL CHIP	100	5%	1/16W
R617	1-218-965-11	METAL CHIP	10K	5%	1/16W
R621	1-216-864-11	SHORT CHIP	0		
R622	1-216-864-11	SHORT CHIP	0		
R623	1-218-977-11	METAL CHIP	100K	5%	1/16W
R624	1-218-941-81	METAL CHIP	100	5%	1/16W
R625	1-216-296-11	SHORT CHIP	0		
R630	1-218-977-11	METAL CHIP	100K	5%	1/16W
R631	1-218-977-11	METAL CHIP	100K	5%	1/16W
R632	1-218-977-11	METAL CHIP	100K	5%	1/16W
R633	1-218-977-11	METAL CHIP	100K	5%	1/16W
R634	1-218-977-11	METAL CHIP	100K	5%	1/16W
R635	1-218-977-11	METAL CHIP	100K	5%	1/16W
R636	1-216-295-91	SHORT CHIP	0		
R637	1-216-295-91	SHORT CHIP	0		
R638	1-216-295-91	SHORT CHIP	0		
R639	1-216-295-91	SHORT CHIP	0		
R643	1-218-990-81	SHORT CHIP	0		
R644	1-218-990-81	SHORT CHIP	0		
R646	1-218-990-81	SHORT CHIP	0		
R648	1-218-990-81	SHORT CHIP	0		
R649	1-218-937-11	METAL CHIP	47	5%	1/16W
R703	1-218-953-11	METAL CHIP	1K	5%	1/16W
R704	1-216-864-11	SHORT CHIP	0		
R705	1-218-953-11	METAL CHIP	1K	5%	1/16W
R708	1-218-973-11	METAL CHIP	47K	5%	1/16W
R709	1-218-973-11	METAL CHIP	47K	5%	1/16W
R730	1-218-990-81	SHORT CHIP	0		
R731	1-218-990-81	SHORT CHIP	0		
R732	1-218-990-81	SHORT CHIP	0		
R733	1-218-990-81	SHORT CHIP	0		
R734	1-216-809-11	METAL CHIP	100	5%	1/10W
R735	1-216-809-11	METAL CHIP	100	5%	1/10W
R737	1-218-990-81	SHORT CHIP	0		
R738	1-218-990-81	SHORT CHIP	0		
R741	1-218-990-81	SHORT CHIP	0		
R753	1-218-941-81	METAL CHIP	100	5%	1/16W
R757	1-218-933-11	METAL CHIP	22	5%	1/16W
R760	1-218-941-81	METAL CHIP	100	5%	1/16W
R761	1-218-933-11	METAL CHIP	22	5%	1/16W
R762	1-218-990-81	SHORT CHIP	0		
R763	1-218-990-81	SHORT CHIP	0		
R764	1-218-990-81	SHORT CHIP	0		
R766	1-218-937-11	METAL CHIP	47	5%	1/16W
R767	1-218-937-11	METAL CHIP	47	5%	1/16W
R768	1-218-937-11	METAL CHIP	47	5%	1/16W
R769	1-218-937-11	METAL CHIP	47	5%	1/16W
R770	1-218-937-11	METAL CHIP	47	5%	1/16W
R771	1-218-937-11	METAL CHIP	47	5%	1/16W
R772	1-218-937-11	METAL CHIP	47	5%	1/16W
R773	1-218-937-11	METAL CHIP	47	5%	1/16W
R774	1-218-937-11	METAL CHIP	47	5%	1/16W
R775	1-218-990-81	SHORT CHIP	0 (X5CDB/X7CDB)		
R776	1-218-990-81	SHORT CHIP	0 (X5CDB/X7CDB)		

MAIN

Ref. No.	Part No.	Description			Remark
R777	1-218-937-11	METAL CHIP	47	5%	1/16W (X7CD/X7CDB)
R778	1-218-937-11	METAL CHIP	47	5%	1/16W (X7CD/X7CDB)
R779	1-218-937-11	METAL CHIP	47	5%	1/16W (X7CD/X7CDB)
R780	1-218-937-11	METAL CHIP	47	5%	1/16W (X7CD/X7CDB)
R781	1-218-937-11	METAL CHIP	47	5%	1/16W (X7CD/X7CDB)
R782	1-218-937-11	METAL CHIP	47	5%	1/16W (X7CD/X7CDB)
R783	1-218-941-81	METAL CHIP	100	5%	1/16W
R784	1-218-941-81	METAL CHIP	100	5%	1/16W (X7CD/X7CDB)
R785	1-218-990-81	SHORT CHIP	0 (X5CDB/X7CDB)		
R786	1-218-941-81	METAL CHIP	100	5%	1/16W
R787	1-218-990-81	SHORT CHIP	0 (X5CD/X7CD)		
R788	1-218-990-81	SHORT CHIP	0 (X5CD/X7CD)		
R789	1-218-990-81	SHORT CHIP	0 (X5CD/X7CD)		
R790	1-218-965-11	METAL CHIP	10K	5%	1/16W (X7CD/X7CDB)
R791	1-218-977-11	METAL CHIP	100K	5%	1/16W (X5CD/X7CD)
R792	1-218-967-11	METAL CHIP	15K	5%	1/16W (X5CD/X7CD)
R793	1-218-977-11	METAL CHIP	100K	5%	1/16W (X5CD/X7CD)
R794	1-218-977-11	METAL CHIP	100K	5%	1/16W (X5CD/X7CD)
R795	1-218-967-11	METAL CHIP	15K	5%	1/16W (X5CD/X7CD)
R796	1-218-937-11	METAL CHIP	47	5%	1/16W (X7CD/X7CDB)
R797	1-218-937-11	METAL CHIP	47	5%	1/16W (X7CD/X7CDB)
R798	1-218-937-11	METAL CHIP	47	5%	1/16W (X7CD/X7CDB)
R799	1-218-967-11	METAL CHIP	15K	5%	1/16W (X5CD/X7CD)
R800	1-218-937-11	METAL CHIP	47	5%	1/16W
R801	1-218-937-11	METAL CHIP	47	5%	1/16W
R802	1-218-937-11	METAL CHIP	47	5%	1/16W
R804	1-218-990-81	SHORT CHIP	0		
R806	1-218-990-81	SHORT CHIP	0		
R817	1-218-937-11	METAL CHIP	47	5%	1/16W (X5CD/X5CDB)
R818	1-218-937-11	METAL CHIP	47	5%	1/16W (X5CD/X5CDB)
R819	1-218-937-11	METAL CHIP	47	5%	1/16W (X5CD/X5CDB)
R852	1-218-965-11	METAL CHIP	10K	5%	1/16W
R853	1-218-970-81	METAL CHIP	27K	5%	1/16W
R855	1-257-362-21	METAL CHIP	1	5%	1/2W
R859	1-218-965-11	METAL CHIP	10K	5%	1/16W
R860	1-218-965-11	METAL CHIP	10K	5%	1/16W
R861	1-218-965-11	METAL CHIP	10K	5%	1/16W
R862	1-208-927-11	METAL CHIP	47K	0.5%	1/16W
R863	1-208-711-11	METAL CHIP	15K	0.5%	1/16W
R864	1-218-965-11	METAL CHIP	10K	5%	1/16W
R865	1-218-965-11	METAL CHIP	10K	5%	1/16W
R866	1-218-941-81	METAL CHIP	100	5%	1/16W
R868	1-218-973-11	METAL CHIP	47K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R874	1-218-967-11	METAL CHIP	15K	5%	1/16W
R875	1-211-973-11	METAL CHIP	15	0.5%	1/10W
R876	1-218-977-11	METAL CHIP	100K	5%	1/16W
R877	1-218-970-81	METAL CHIP	27K	5%	1/16W
R878	1-211-973-11	METAL CHIP	15	0.5%	1/10W
R879	1-211-973-11	METAL CHIP	15	0.5%	1/10W
R880	1-211-973-11	METAL CHIP	15	0.5%	1/10W
R881	1-211-973-11	METAL CHIP	15	0.5%	1/10W
R882	1-218-977-11	METAL CHIP	100K	5%	1/16W
R883	1-211-973-11	METAL CHIP	15	0.5%	1/10W
R884	1-218-973-11	METAL CHIP	47K	5%	1/16W
R885	1-218-941-81	METAL CHIP	100	5%	1/16W
R901	1-208-939-11	METAL CHIP	150K	0.5%	1/16W
R902	1-208-695-11	METAL CHIP	3.3K	0.5%	1/16W
R903	1-208-715-11	METAL CHIP	22K	0.5%	1/16W
R904	1-216-864-11	SHORT CHIP	0		
R905	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R906	1-208-695-11	METAL CHIP	3.3K	0.5%	1/16W
R907	1-208-715-11	METAL CHIP	22K	0.5%	1/16W
R908	1-218-965-11	METAL CHIP	10K	5%	1/16W
R909	1-218-973-11	METAL CHIP	47K	5%	1/16W
R910	1-218-953-11	METAL CHIP	1K	5%	1/16W
R911	1-218-965-11	METAL CHIP	10K	5%	1/16W
R912	1-218-953-11	METAL CHIP	1K	5%	1/16W
R913	1-218-973-11	METAL CHIP	47K	5%	1/16W
R914	1-218-965-11	METAL CHIP	10K	5%	1/16W
R917	1-218-977-11	METAL CHIP	100K	5%	1/16W
R918	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R919	1-257-321-11	METAL CHIP	0.039	1%	1/2W
R921	1-218-977-11	METAL CHIP	100K	5%	1/16W
R922	1-218-977-11	METAL CHIP	100K	5%	1/16W
R923	1-218-990-81	SHORT CHIP	0		
R924	1-218-990-81	SHORT CHIP	0		
R925	1-208-933-11	METAL CHIP	82K	0.5%	1/16W
R926	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R927	1-208-699-11	METAL CHIP	4.7K	0.5%	1/16W
R928	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R929	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R930	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R931	1-218-941-81	METAL CHIP	100	5%	1/16W
R932	1-218-981-81	METAL CHIP	220K	5%	1/16W
R933	1-218-977-11	METAL CHIP	100K	5%	1/16W
R936	1-216-864-11	SHORT CHIP	0 (X7CD/X7CDB)		
R943	1-218-953-11	METAL CHIP	1K	5%	1/16W (X7CD/X7CDB)
R946	1-218-985-11	METAL CHIP	470K	5%	1/16W
R947	1-218-977-11	METAL CHIP	100K	5%	1/16W
R949	1-218-977-11	METAL CHIP	100K	5%	1/16W (X7CD/X7CDB)
R951	1-218-973-11	METAL CHIP	47K	5%	1/16W
R952	1-218-973-11	METAL CHIP	47K	5%	1/16W
R953	1-218-973-11	METAL CHIP	47K	5%	1/16W
R956	1-218-977-11	METAL CHIP	100K	5%	1/16W
R957	1-218-967-11	METAL CHIP	15K	5%	1/16W
R958	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R959	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R960	1-216-864-11	SHORT CHIP	0		
R961	1-216-864-11	SHORT CHIP	0		
R962	1-216-864-11	SHORT CHIP	0		
R963	1-216-864-11	SHORT CHIP	0		
R964	1-218-973-11	METAL CHIP	47K	5%	1/16W

	Ref. No.	Part No.	Description			Remark
	R965	1-218-953-11	METAL CHIP	1K	5%	1/16W
	R966	1-250-519-11	METAL CHIP	10K	1%	1/16W
	R967	1-250-483-11	METAL CHIP	330	1%	1/16W
*	R968	1-250-499-11	METAL CHIP	1.5K	1%	1/16W
	R969	1-250-487-11	METAL CHIP	470	1%	1/16W
	R970	1-218-973-11	METAL CHIP	47K	5%	1/16W (X7CD/X7CDB)
	R973	1-250-519-11	METAL CHIP	10K	1%	1/16W (X7CD/X7CDB)
	R974	1-250-483-11	METAL CHIP	330	1%	1/16W (X7CD/X7CDB)
*	R975	1-250-507-11	METAL CHIP	3.3K	1%	1/16W (X7CD/X7CDB)
	R976	1-216-864-11	SHORT CHIP	0		
	R988	1-218-953-11	METAL CHIP	1K	5%	1/16W (X7CD/X7CDB)
	R991	1-218-973-11	METAL CHIP	47K	5%	1/16W
	R992	1-218-973-11	METAL CHIP	47K	5%	1/16W
	R993	1-218-973-11	METAL CHIP	47K	5%	1/16W
	R994	1-218-977-11	METAL CHIP	100K	5%	1/16W
	R997	1-216-864-11	SHORT CHIP	0		
	R999	1-216-864-11	SHORT CHIP	0		
	R1002	1-216-864-11	SHORT CHIP	0		
	R1007	1-218-953-11	METAL CHIP	1K	5%	1/16W
	R1008	1-218-953-11	METAL CHIP	1K	5%	1/16W
	R1009	1-218-973-11	METAL CHIP	47K	5%	1/16W
	R1010	1-218-990-81	SHORT CHIP	0		
	R1011	1-218-953-11	METAL CHIP	1K	5%	1/16W
	R1012	1-218-953-11	METAL CHIP	1K	5%	1/16W
	R1013	1-218-973-11	METAL CHIP	47K	5%	1/16W
	R1014	1-216-864-11	SHORT CHIP	0		
	R1015	1-218-941-81	METAL CHIP	100	5%	1/16W
	R1016	1-218-941-81	METAL CHIP	100	5%	1/16W
	R1017	1-218-941-81	METAL CHIP	100	5%	1/16W
	R1018	1-216-864-11	SHORT CHIP	0		
	R1019	1-216-864-11	SHORT CHIP	0		
	R1020	1-218-941-81	METAL CHIP	100	5%	1/16W
	R1021	1-218-941-81	METAL CHIP	100	5%	1/16W
	R1022	1-218-941-81	METAL CHIP	100	5%	1/16W
	R1023	1-216-864-11	SHORT CHIP	0		
	R1024	1-216-864-11	SHORT CHIP	0		
	R1026	1-218-941-81	METAL CHIP	100	5%	1/16W
	R1027	1-216-797-11	METAL CHIP	10	5%	1/10W
*	R1028	1-250-543-11	METAL CHIP	100K	1%	1/16W
	R1029	1-250-535-11	METAL CHIP	47K	1%	1/16W
	R1030	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
	R1031	1-216-864-11	SHORT CHIP	0		
	R1032	1-218-990-81	SHORT CHIP	0		
	R1033	1-216-864-11	SHORT CHIP	0		
			< COMPOSITION CIRCUIT BLOCK >			
	RB501	1-234-371-11	RES, NETWORK 47 (1005X4)			
	RB502	1-234-371-11	RES, NETWORK 47 (1005X4)			
	RB503	1-234-371-11	RES, NETWORK 47 (1005X4)			
	RB504	1-234-371-11	RES, NETWORK 47 (1005X4)			
	RB505	1-234-371-11	RES, NETWORK 47 (1005X4)			
	RB506	1-234-371-11	RES, NETWORK 47 (1005X4)			
	RB507	1-234-371-11	RES, NETWORK 47 (1005X4)			
	RB508	1-234-371-11	RES, NETWORK 47 (1005X4)			
	RB509	1-234-371-11	RES, NETWORK 47 (1005X4)			

Ref. No.	Part No.	Description			Remark
		< VIBRATOR >			
X201	1-814-466-11	QUARTZ CRYSTAL UNITS (12.288 MHz)			
X202	1-814-767-11	QUARTZ CRYSTAL UNITS (13.333 MHz)			
X203	1-814-273-11	QUARTZ CRYSTAL UNIT (32.768 kHz)			
X501	1-814-023-11	QUARTS CRYSTAL UNIT (27 MHz)			
**********					
		MS-091 BOARD			
		**********			
When the MS-091 board is defective, replace the LOADING ASSY (Ref. No. CDM1).					
**********					
		POWER KEY BOARD			
		**********			
When the POWER KEY board is defective, replace the REAR SVX PANEL (Ref. No. RP1).					
**********					
		RC BOARD			
		*********			
		< CAPACITOR >			
C2107	1-118-289-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN2102	1-794-509-11	PIN, CONNECTOR (PC BOARD) (3P)			
CN2103	1-770-469-21	PIN, CONNECTOR (PC BOARD) 2P			
		< IC >			
IC2101	6-600-768-01	IC PNA4823M03S0			
		< RESISTOR >			
R2101	1-216-805-11	METAL CHIP	47	5%	1/10W
R2103	1-216-809-11	METAL CHIP	100	5%	1/10W
R2104	1-218-990-81	SHORT CHIP	0		
**********					
		TOUCH KEY BOARD			
		**********			
When the TOUCH KEY board is defective, replace the REAR SVX PANEL (Ref. No. RP1).					
**********					
	A-1924-242-A	TUNER BOARD, COMPLETE (Including shield) (X5CD/X7CD)			
		**********			
When the TUNER board is defective, replace the complete mounted board.					
**********					
		MISCELLANEOUS			
		**********			
⚠ AC1	1-843-934-11	AC INLET (2P)			
ANT1	X-2588-794-1	WIFI ANTENNA 2.4 GHz SVX (Wireless LAN antenna) (Including ANTENNA board) (X7CD/X7CDB) (See Note)			
BT1	1-490-558-81	BLUETOOTH MODULE			
CDM1	A-1924-332-A	LOADING ASSY (Including MS-091 board, loading motor)			
CN01	1-843-261-11	PIN HEADER 2P (X5CDB/X7CDB)			

Note: When the WIFI ANTENNA 2.4 GHz SVX (Ref. No. ANT1) is replaced, refer to "CHECKING METHOD OF NETWORK CONNECTION (CMT-X7CD/X7CDB only)" on page 5.

Ref. No.	Part No.	Description	Remark
DAB1	1-489-807-11	MODULE (DAB TUNER) (X5CDB/X7CDB)	
FC1	1-481-359-11	CORE, FERRITE	
FC2	1-469-829-11	CORE, FERRITE	
FC3	1-457-414-11	CORE, FERRITE	
FC4	1-500-635-11	CORE, FERRITE (X5CD/X7CD)	
FC5	1-500-635-11	CORE, FERRITE (X5CDB/X7CDB)	
FC6	1-469-829-11	CORE, FERRITE	
* FC7	1-500-082-11	CLAMP, SLEEVE FERRITE	
FFC1	9-885-193-81	FY14 FFC (0.5 mm_24P_CD OP)	
FFC2	9-885-193-73	FY14 FFC (1.0 mm_7P_CDM)	
FFC3	9-885-193-72	FY14 FFC (1.0 mm_7P_TOUCH KEY)	
FFC4	9-885-193-74	FY14 FFC (1.0 mm_9P_RICOH TUNER)	(X5CD/X7CD)
FFC5	9-885-193-75	FY14 FFC (1.0 mm_9P_DAB) (X5CDB/X7CDB)	
FFC6	9-885-193-78	FY14 FFC (1.0 mm_21P_BCO) (X7CD/X7CDB)	
FFC7	9-885-193-76	FY14 FFC (1.0 mm_9P_LCD)	
FFC8	9-885-193-79	FY14 FFC (0.5 mm_8P_NFC)	
FFC9	9-885-193-80	FY14 FFC (0.5 mm_14P_BT)	
FFC10	9-885-193-77	FY14 FFC (1.0 mm_15P_JACK)	
FFC11	9-885-193-71	FY14 FFC (1.0 mm_4P_POWER KEY)	
⚠ OP1	A-1940-584-A	OPTICAL PICK-UP (CMS-S76RFS7G) (for SERVICE) (Including sled motor, spindle motor)	
⚠ PWR1	1-474-552-11	POWER UNIT	
RP1	X-2589-297-1	PANEL, REAR SVX (X7COM/B) (Including NFC module, POWER KEY board, TOUCH KEY board) (for BLACK) (X7CD: CH)	(See Note 2)
RP1	X-2589-298-1	PANEL, REAR SVX (X7COM/W) (Including NFC module, POWER KEY board, TOUCH KEY board) (for WHITE) (X7CD: AEP, CH)	(See Note 2)
RP1	X-2589-301-1	PANEL, REAR SVX (X7B/B) (Including NFC module, POWER KEY board, TOUCH KEY board) (for BLACK) (X7CDB: UK)	(See Note 2)
RP1	X-2589-302-1	PANEL, REAR SVX (X7B/W) (Including NFC module, POWER KEY board, TOUCH KEY board) (for WHITE) (X7CDB: AEP, UK)	(See Note 2)
RP1	X-2589-303-1	PANEL, REAR SVX (X5COM/B) (Including NFC module, POWER KEY board, TOUCH KEY board) (for BLACK) (X5CD: AEP, RU, SP, KR) (See Note 2)	
RP1	X-2589-304-1	PANEL, REAR SVX (X5COM/W) (Including NFC module, POWER KEY board, TOUCH KEY board) (for WHITE) (X5CD: AEP, RU, KR) (See Note 2)	
RP1	X-2589-307-1	PANEL, REAR SVX (X5UC) (Including NFC module, POWER KEY board, TOUCH KEY board) (for BLACK) (X5CD: US, CND)	(See Note 2)
RP1	X-2589-308-1	PANEL, REAR SVX (X5B/B) (Including NFC module, POWER KEY board, TOUCH KEY board) (for BLACK) (X5CDB: AEP, UK)	(See Note 2)
RP1	X-2589-309-1	PANEL, REAR SVX (X5B/W) (Including NFC module, POWER KEY board, TOUCH KEY board) (for WHITE) (X5CDB: AEP, UK)	(See Note 2)
RP1	X-2589-310-1	PANEL, REAR SVX (X5AU) (Including NFC module, POWER KEY board, TOUCH KEY board) (for BLACK) (X5CDB: AUS)	(See Note 2)
SP1	1-858-973-11	SPEAKER (65 mm) (Full-range speaker: L-ch)	
SP2	1-858-973-11	SPEAKER (65 mm) (Full-range speaker: R-ch)	
SP3	1-858-977-11	SPEAKER (80 mm) (Passive radiator: L-ch)	
SP4	1-858-977-11	SPEAKER (80 mm) (Passive radiator: R-ch)	
WIFI1	X-2589-210-1	WIFI MODULE (X7CD/X7CDB) (See Note 1)	
**********			
		ACCESSORIES	
		**********	
	1-492-745-11	REMOTE COMMANDER (RM-AMU197) (Remote)	(Except CH)
	1-492-746-12	REMOTE COMMANDER (RM-AMU198) (Remote)	(CH)
	1-754-459-41	ANTENNA (FM) (FM lead antenna or DAB/FM lead antenna)	
⚠	1-837-421-63	CORD SET, POWER-SUPPLY (AC power cord)	(UK)
⚠	1-837-426-63	CORD SET, POWER-SUPPLY (AC power cord)	(AEP, RU, SP)
⚠	1-837-429-61	CORD SET, POWER-SUPPLY (AC power cord)	(AUS)
⚠	1-838-719-62	CORD SET, POWER-SUPPLY (AC power cord)	(CH)
⚠	1-838-954-62	CORD SET, POWER-SUPPLY (AC power cord)	(KR)
⚠	1-839-106-12	CORD SET, POWER-SUPPLY (AC power cord)	(US, CND)
	4-528-295-12	MANUAL, INSTRUCTION (ENGLISH) (X7CD: CH)	
	4-528-295-22	MANUAL, INSTRUCTION (SIMPLIFIED CHINESE)	(X7CD: CH)
	4-528-297-13	MANUAL, INSTRUCTION (ENGLISH) (X7CDB: UK)	
	4-528-297-23	MANUAL, INSTRUCTION (FRENCH)	(X7CD: AEP/X7CDB: AEP)
	4-528-297-33	MANUAL, INSTRUCTION (SPANISH)	(X7CD: AEP/X7CDB: AEP)
	4-528-297-43	MANUAL, INSTRUCTION (GERMAN)	(X7CD: AEP/X7CDB: AEP)
	4-528-297-53	MANUAL, INSTRUCTION (DUTCH)	(X7CD: AEP/X7CDB: AEP)
	4-528-297-63	MANUAL, INSTRUCTION (ITALIAN)	(X7CD: AEP/X7CDB: AEP)
	4-528-297-73	MANUAL, INSTRUCTION (POLISH)	(X7CD: AEP/X7CDB: AEP)
	4-528-297-83	MANUAL, INSTRUCTION (DANISH)	(X7CD: AEP/X7CDB: AEP)
	4-528-300-12	QSG (Quick Start Guide) (ENGLISH) (X7CDB: UK)	
	4-528-300-22	QSG (Quick Start Guide) (FRENCH)	(X7CD: AEP/X7CDB: AEP)
	4-528-300-32	QSG (Quick Start Guide) (SPANISH)	(X7CD: AEP/X7CDB: AEP)
	4-528-300-42	QSG (Quick Start Guide) (GERMAN)	(X7CD: AEP/X7CDB: AEP)
	4-528-300-52	QSG (Quick Start Guide) (DUTCH)	(X7CD: AEP/X7CDB: AEP)
	4-528-300-62	QSG (Quick Start Guide) (ITALIAN)	(X7CD: AEP/X7CDB: AEP)
	4-528-300-72	QSG (Quick Start Guide) (POLISH)	(X7CD: AEP/X7CDB: AEP)
	4-528-300-82	QSG (Quick Start Guide) (DANISH)	(X7CD: AEP/X7CDB: AEP)

Note 1: When the WiFi module (Ref. No. WIFI1) is replaced, refer to "NOTE OF REPLACING THE WiFi MODULE (CMT-X7CD/X7CDB only)", "PROCESSING OF REPLACING THE WiFi MODULE (CMT-X7CD/X7CDB only)" and "CHECKING METHOD OF NETWORK CONNECTION (CMT-X7CD/X7CDB only)" on page 5

Note 2: When replace Ref. No. RP1, be sure to replace Ref. No. 454 (refer to page 87) at the same time.

Ref. No.	Part No.	Description	Remark
	4-528-300-92	QSG (Quick Start Guide) (SIMPLIFIED CHINESE)	(X7CD: CH)
	4-528-303-13	MANUAL, INSTRUCTION (ENGLISH)	(X5CD: US, CND)
	4-528-303-23	MANUAL, INSTRUCTION (FRENCH)	(X5CD: US, CND)
	4-528-304-13	MANUAL, INSTRUCTION (ENGLISH)	(X5CD: SP/X5CDB: UK, AUS)
	4-528-304-23	MANUAL, INSTRUCTION (FRENCH)	(X5CD: AEP, SP/X5CDB: AEP)
	4-528-304-33	MANUAL, INSTRUCTION (SPANISH)	(X5CD: AEP/X5CDB: AEP)
	4-528-304-43	MANUAL, INSTRUCTION (GERMAN)	(X5CD: AEP/X5CDB: AEP)
	4-528-304-53	MANUAL, INSTRUCTION (DUTCH)	(X5CD: AEP/X5CDB: AEP)
	4-528-304-63	MANUAL, INSTRUCTION (ITALIAN)	(X5CD: AEP/X5CDB: AEP)
	4-528-304-73	MANUAL, INSTRUCTION (POLISH)	(X5CD: AEP/X5CDB: AEP)
	4-528-304-83	MANUAL, INSTRUCTION (DANISH)	(X5CD: AEP/X5CDB: AEP)
	4-528-305-12	MANUAL, INSTRUCTION (RUSSIAN)	(X5CD: RU)
	4-528-305-22	MANUAL, INSTRUCTION (UKRAINIAN)	(X5CD: RU)
	4-528-305-41	MANUAL, INSTRUCTION (TRADITIONAL CHINESE)	(X5CD: SP)
	4-528-305-51	MANUAL, INSTRUCTION (KOREAN)	(X5CD: KR)
	4-539-621-12	QSG (Quick Start Guide) (ENGLISH)	(X7CD: CH)

REVISION HISTORY

Ver.	Date	Description of Revision
1.0	2014.02	New
1.1	2014.04	Addition of Russian model (CMT-X5CD) Addition of Australian model (CMT-X5CDB) Addition of Chinese model (CMT-X7CD) Deletion of Part for Ref. No. C030 to C033 and C508 to C512 on the MAIN board Addition of SHEET (EMC-ABSOBER) on the MAIN board and JACK-NET board Addition of FOOT (S) on the module (DAB tuner) Change of Wire setting (“2-6. BLUETOOTH MODULE BLOCK, MAIN CHASSIS BLOCK-3”, “2-13. JACK BOARD BLOCK (X5CD/X5CDB)” and “2-14. JACK-NET BOARD BLOCK-1 (X7CD/X7CDB)” on DISASSEMBLY) Deletion of CUSHION (C) (3 pieces) and Addition of BCO CUSHION (2 pieces), PWB CUSHION (JACK) and FFC CUSHION (USB) (3 pieces: X5CD/X5CDB, 4 pieces: X7CD/X7CDB) (SMR-13061)
1.2	2014.06	Addition of Singapore and Korean models (CMT-X5CD) Deletion of Black color type (AEP model (CMT-X7CD/X7CDB)) Change of Part No. for INSTRUCTION MANUAL and Quick Start Guide (SMR-14010)

How to search for a contact point of signal lines or the like in DIAGRAMS SECTION

If a contact point of a BLOCK DIAGRAM, PRINTED WIRING BOARD or SCHEMATIC DIAGRAM is shown in a different page, use the PDF file search function to find one.

e.g.) If a contact point is shown as >001Z, follow the procedure below.

Procedure:

1. Press the [F] key while pressing the [Ctrl] key.
2. Input “>001Z” in the search box and press the [Enter] key.
3. The relevant part (page), where the contact point is shown, appears.

Note: If you still see the original page, press the [Enter] key again.