HBD-DZ170/DZ171/DZ175/DZ310/ DZ510/DZ610/DZ810

SERVICE MANUAL

Self Diagnosis Supported model

Ver. 1.0 2010.01

US Model
HBD-DZ170/DZ171/DZ175
Canadian Model
HBD-DZ175
E Model
HBD-DZ310/DZ510/DZ610/DZ810

Photo: HBD-DZ170

- HBD-DZ170/DZ171/DZ175/DZ310/DZ510/DZ610/DZ810 are the amplifier, DVD/CD and tuner section in DAV-DZ170/ DZ171/DZ175/DZ310/DZ510/DZ610/DZ810.

This system incorporates with Dolby* Digital and Dolby Pro Logic (II) adaptive matrix surround decoder and the DTS** Digital Surround System.

* Manufactured under license from Dolby Laboratories. Dolby, Pro Logic, and the double-D symbol are trademarks of Dolby Laboratories.

** Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS and DTS Digital Surround are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc. © 1996-2008 DTS, Inc. All Rights Reserved.

Model Name Using Similar Mechanism	HCD-FZ900KW/FZ900M
Mechanism Type	CDM85MB-DVBU102
Optical Pick-up Name	KHM-313CAA

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS for the U.S. model

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
(FTC)
Front L + Front R — With 3 ohms loads, both channels driven, from 180 - 20,000 Hz; rated 84 watts per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 milli watts to rated output.

Amplifier Section (DAV-DZ170/DAV-DZ171/DAV-DZ175)

U.S. models:
POWER OUTPUT (reference):
Front L/Front R/Center/ Surround L/Surround R: 167 watts (per channel at 3 ohms, 1 kHz)
Subwoofer: 165 watts (at 3 ohms, 80 Hz)
Other models:
POWER OUTPUT (rated):
Front L + Front R — 108 W + 108 W (at 3 ohms, 1 kHz, 1% THD)
POWER OUTPUT (reference):
Front L/Front R/Center/ Surround L/Surround R: 167 watts (per channel at 3 ohms, 1 kHz)
Subwoofer: 165 watts (at 3 ohms, 80 Hz)
Inputs (Analog)
TV/CABLE (AUDIO IN) — Sensitivity: 450/250 mV
AUDIO IN — Sensitivity: 250/125 mV
Inputs (Digital)
TV/CABLE (COAXIAL IN/OPTICAL IN)
Impedance: 75 ohms/-
Input Stream: Dolby Digital 5.1ch/DTS 5.1ch/ Linear PCM 2ch
(Sampling Frequency: less than 48 kHz)

Amplifier Section (DAV-DZ310/DAV-DZ510/DAV-DZ610/ DAV-DZ810)

DAV-DZ310

POWER OUTPUT (rated):
Front L + Front R — 108 W + 108 W (at 3 ohms, 1 kHz, 1% THD)
POWER OUTPUT (reference):
Front L/Front R/Center/ Surround L/Surround R: 142 watts (per channel at 3 ohms, 1 kHz)
Subwoofer: 140 watts (at 3 ohms, 80 Hz)

DAV-DZ510/DAV-DZ610/DAV-DZ810

POWER OUTPUT (rated):
Front L + Front R — 108 W + 108 W (at 3 ohms, 1 kHz, 1% THD)
POWER OUTPUT (reference):
Front L/Front R/Center/ Surround L/Surround R: 167 watts (per channel at 3 ohms, 1 kHz)
Subwoofer: 165 watts (at 3 ohms, 80 Hz)
Inputs (Analog)
TV (AUDIO IN) — Sensitivity: 450/250 mV
AUDIO IN — Sensitivity: 250/125 mV
MIC — Sensitivity: 1 mV
Inputs (Digital)
DAV-DZ310:
TV (Audio Return Channel)
Input Stream: Dolby Digital 5.1ch/DTS 5.1ch/ Linear PCM 2ch
(Sampling Frequency: less than 48 kHz)
DAV-DZ510/DAV-DZ610/DAV-DZ810:
TV (Audio Return Channel/OPTICAL IN)
Input Stream: Dolby Digital 5.1ch/DTS 5.1ch/ Linear PCM 2ch
(Sampling Frequency: less than 48 kHz)

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DVD RECEIVER

9-889-740-01
2010A04-1

Sony Corporation
Audio&Video Business Group
Published by Sony Techno Create Corporation

SONY®

Super Audio CD/DVD System (DAV-DZ170/DAV-DZ171/DAV-DZ175)

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

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

Signal format system — NTSC

Super Audio CD/DVD System (DAV-DZ310/DAV-DZ510/DAV-DZ610/DAV-DZ810)

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

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

Signal format system
Mexican and Latin American models: NTSC
Other models: NTSC/PAL

USB Section

(USB) port:
Maximum current: 500 mA

Tuner Section

System — PLL quartz-locked digital synthesizer
Tuning range
North American models: 87.5 MHz - 108.0 MHz (100 kHz step)
Other models: 87.5 MHz - 108.0 MHz (50 kHz step)
Antenna (aerial) — FM wire antenna (aerial)
Antenna (aerial) terminals — 75 ohms, unbalanced
Intermediate frequency — 10.7 MHz

Video Section

Outputs — VIDEO: 1 Vp-p 75 ohms
COMPONENT:
Y: 1 Vp-p 75 ohms
P_B/C_B, P_R/C_R: 0.7 Vp-p 75 ohms
HDMI OUT: Type A (19 pin)

General (DAV-DZ170/DAV-DZ171/DAV-DZ175)

Power requirements — 120 V AC, 60 Hz
Power consumption — On: 170 W
Standby: 0.2 W*

** Valid when the system is in the following status:*
– "DEMO" is set to "OFF."
– [CONTROL FOR HDMI] is set to [OFF].

Dimensions (approx.) — 430 mm × 66 mm × 385 mm (17 in × 2 5/8 in × 15 1/4 in) (w/h/d) incl. projecting parts
Mass (approx.) — 4.4 kg (9 lb 12 oz)

General (DAV-DZ310/DAV-DZ510/DAV-DZ610/DAV-DZ810)

Power requirements
North American and Mexican models: 120 V AC, 60 Hz
Taiwan models: 120 V AC, 50/60 Hz
Argentine models: 220 V - 240 V AC, 50/60 Hz
Latin American models: 110 V - 240 V AC, 50/60 Hz
Other models: 220 V - 240 V AC, 50/60 Hz
Power consumption
DAV-DZ310/DAV-DZ510/DAV-DZ610
On: 170 W
Standby: Taiwan models: 0.2 W*, Other models: 0.25 W*
DAV-DZ810
On: 175 W
Standby: 0.25 W*

** Valid when the system is in the following status:*
– "DEMO" is set to "OFF."
– [CONTROL FOR HDMI] is set to [OFF].
– "S-AIR STBY" is set to "STBY OFF." (DAVDZ810 only)

Dimensions (approx.) — 430 mm × 66 mm × 385 mm (w/h/d) incl. projecting parts
Mass (approx.) — 4.4 kg

Supported file format

MP3 (MPEG 1 Audio Layer-3)

File Extension: mp3
Bitrate: 32 kbps - 320 kbps
Sampling frequencies: 32/44.1/48 kHz

WMA (USB device only)

File Extension: wma
Bitrate: 48 kbps - 192 kbps
Sampling frequencies: 44.1 kHz

AAC (USB device only)

File Extension: m4a
Bitrate: 48 kbps - 320 kbps
Sampling frequencies: 44.1 kHz

DivX (DAV-DZ310/DAV-DZ510/DAV-DZ610/DAV-DZ810)

File Extension: avi/divx
Video codec: DivX video
Bitrate: 10.08 Mbps (MAX)
Frame rate: 30 fps
Resolution: 720 × 576
Audio codec: MP3

MPEG4

File format: MP4 File Format
File Extension: mp4/m4v
Video codec: MPEG4 Simple Profile (AVC is not compatible.)
Bitrate: 4 Mbps
Frame rate: 30 fps
Resolution: 720 × 576
Audio codec: AAC-LC (HE-AAC is not compatible.)
DRM: Not compatible

Design and specifications are subject to change without notice.

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.

SPECIAL COMPONENT NOTICE

The components identified by mark 🔒 contain confidential information.
Strictly follow the instructions whenever the components are repaired and/or replaced.

NOTICE POUR COMPOSANTS SPÉCIAUX

Les composants identifiés par la marque 🔒 contiennent des informations confidentielles.
Suivre scrupuleusement les instructions chaque fois qu'un composant est remplacé et / ou réparé.

SAFETY CHECK-OUT (US Model)

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)

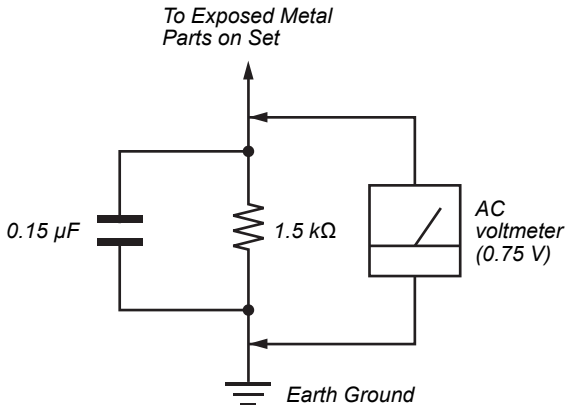


Fig. A. Using an AC voltmeter to check AC leakage.

Except US, Canadian Model

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

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

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

NOTES ON CHIP COMPONENT REPLACEMENT

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

FLEXIBLE CIRCUIT BOARD REPAIRING

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

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

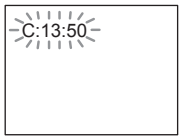
Unleaded solder has the following characteristics.

- 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.

Self-diagnosis Function

(When letters/numbers appear in the display)

When the self-diagnosis function is activated to prevent the system from malfunctioning, a 5-character service number (e.g., C 13 50) with a combination of a letter and 4 digits appears on the TV screen or front panel display. In this case, check the following table.

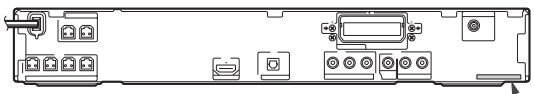


First 3 characters of the service number	Cause and/or corrective action
C 13	The disc is dirty. ➡Clean the disc with a soft cloth (page 63).
E XX (XX is a number)	To prevent a malfunction, the system has performed the self-diagnosis function. ➡Contact your nearest Sony dealer or local authorized Sony service facility and give the 5-character service number. Example: E 61 10

When the version number appears on the TV screen

When you turn on the system, the version number [VER.X.XX] (X is a number) may appear on the TV screen. Although this is not a malfunction and for Sony service use only, normal system operation will not be possible. Turn off the system, and then turn on the system again to operate.

MODEL IDENTIFICATION
– Back Panel –



Parts No.

Model	Part No.
DZ175: US model	4-159-511-1□
DZ175: CND model	4-159-511-2□
DZ170: US model	4-159-511-3□
DZ171: US model	4-159-511-4□
DZ310: E12 model	4-159-511-6□
DZ310: E3 model	4-159-511-7□
DZ310: SP model	4-159-511-9□
DZ310: E32 model	4-159-512-3□
DZ510: E12 model	4-159-512-8□
DZ610: E12 model	4-159-513-0□
DZ610: E3 model	4-159-513-1□
DZ610: E15 model	4-159-513-2□
DZ610: SP model	4-159-513-4□
DZ810: E12 model	4-159-514-1□
DZ810: E3 model	4-159-514-2□
DZ810: E15, EA models	4-159-514-3□
DZ810: SP model	4-159-514-4□
DZ810: E32 model	4-159-514-7□

- Abbreviation
  CND : Canadian model
  E3 : 240V AC area in E model
  E12 : 220 – 240V AC area in E model
  E15 : Iranian model
  E32 : 110 – 240V AC area in E model
  EA : Saudi Arabia model
  SP : Singapore model

TABLE OF CONTENTS

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.

LASER DIODE AND FOCUS SEARCH

1. Open the case and turn POWER on with no disc inserted.
2. Confirm that the following operation is performed while observing the objecting lens from the clearance of DVD mechanism deck.
   1) Confirm that laser beam is spread.
   2) Up and down motion of the objective lens. (2 times)

DISC TRAY LOCK

The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Setting Procedure :

1. Press the [I/⏻] button to turn the set on.
2. Press the [FUNCTION] button to set DVD function.
3. Insert a disc.
4. Press the [■] button and the [⏏] button simultaneously for five seconds.
5. The message “LOCKED” is displayed and the tray is locked.

Releasing Procedure :

1. Press the [■] button and the [⏏] button simultaneously for five seconds again.
2. The message “UNLOCKED” is displayed and the tray is unlocked.

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

On cleaning discs, disc/lens cleaners

- Do not use cleaning discs or disc/lens cleaners (including wet or spray types). These may cause the apparatus to malfunction.

IMPORTANT NOTICE

Caution: This system is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time you risk permanent damage to your television screen.
Projection televisions are especially susceptible to this.

Attention when transported

Use this mode when returning the set to the customer after repair.

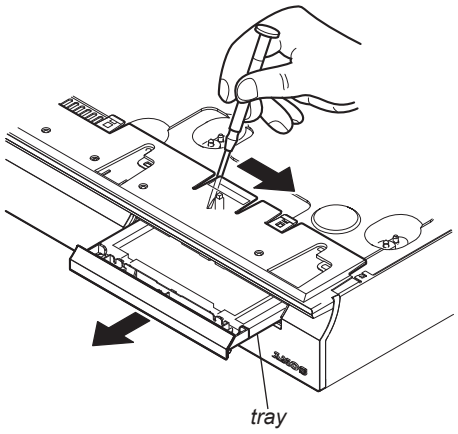
Procedure:

1. Press the [I/⏻] button to turn the set on.
2. Press the [FUNCTION] button to set the function “DVD”.
3. Remove all discs, and then press two buttons [►] and [I/⏻] simultaneously.
4. After a message “MECHA LOCK” is displayed on the fluorescent indicator tube, pull out the AC plug.
5. To exit from this mode, press the [I/⏻] button to turn the set on.

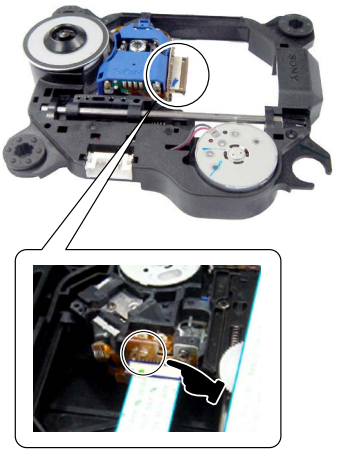
How to open the disc table when power switch turns off

Insert a tapering driver into the aperture of the unit bottom, and slide it in the direction of the arrow.

Insert a screwdriver from between the front panel and the chassis and slide the rod in the direction of the arrow.



Precaution when installing a new OP unit/ Precaution before unsoldering the static electricity prevention solder bridge

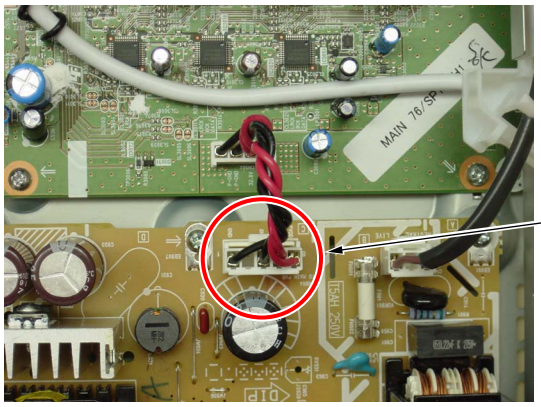


When installing a new OP unit, be sure to connect the flexible printed circuit board first of all before removing the static electricity prevention solder bridge by unsoldering.
Remove the static electricity prevention solder bridge by unsoldering after the flexible printed circuit board has already been connected.
(Do not remove nor unsolder the solder bridge as long as the OP unit is kept standalone.)

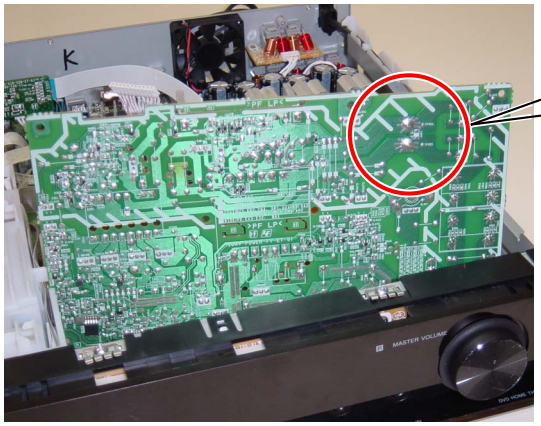
Discharge the charged electricity in capacitors to prevent electric shock as follows

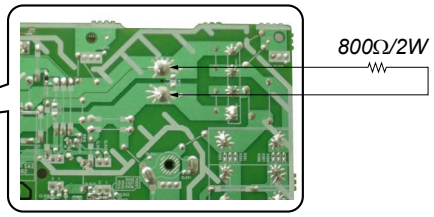
When disassembling the machine, be sure to discharge the charged electricity in the following capacitors.
Use a resistor of 800 ohms, 2 Watts for discharging the following capacitors.

POWER board
C903: 390V
C932, C933, C934, CN904: 30V



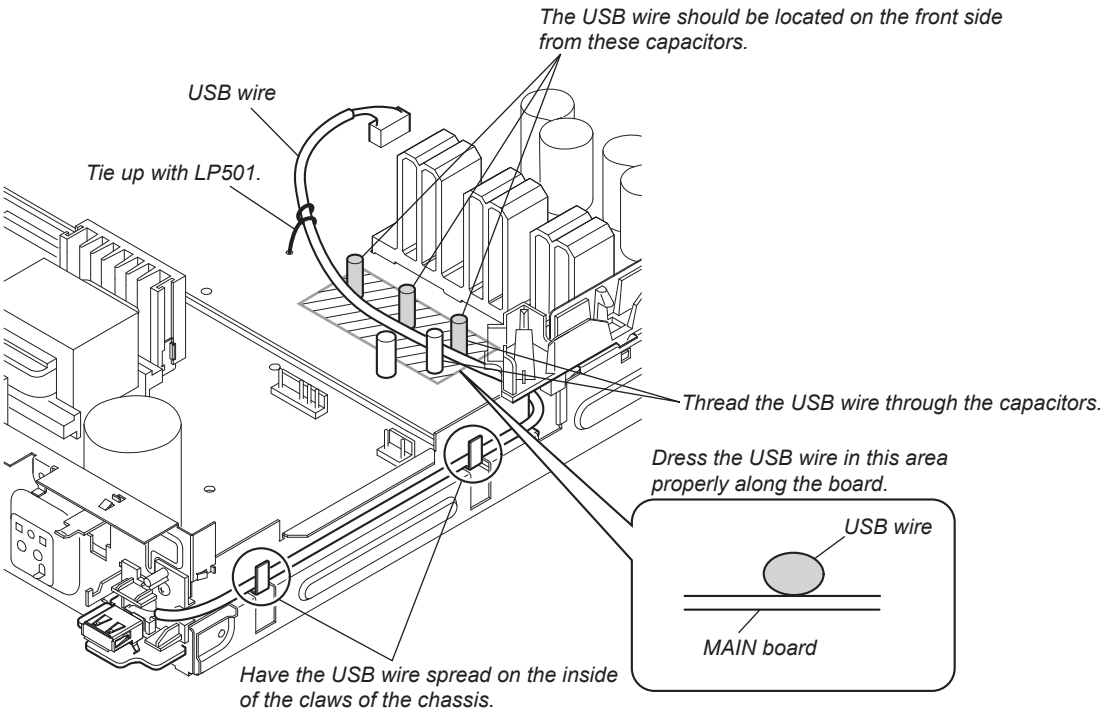
Point of capacitor discharge for C932, C933, C934:
Connect to the red and black wire of CN904.





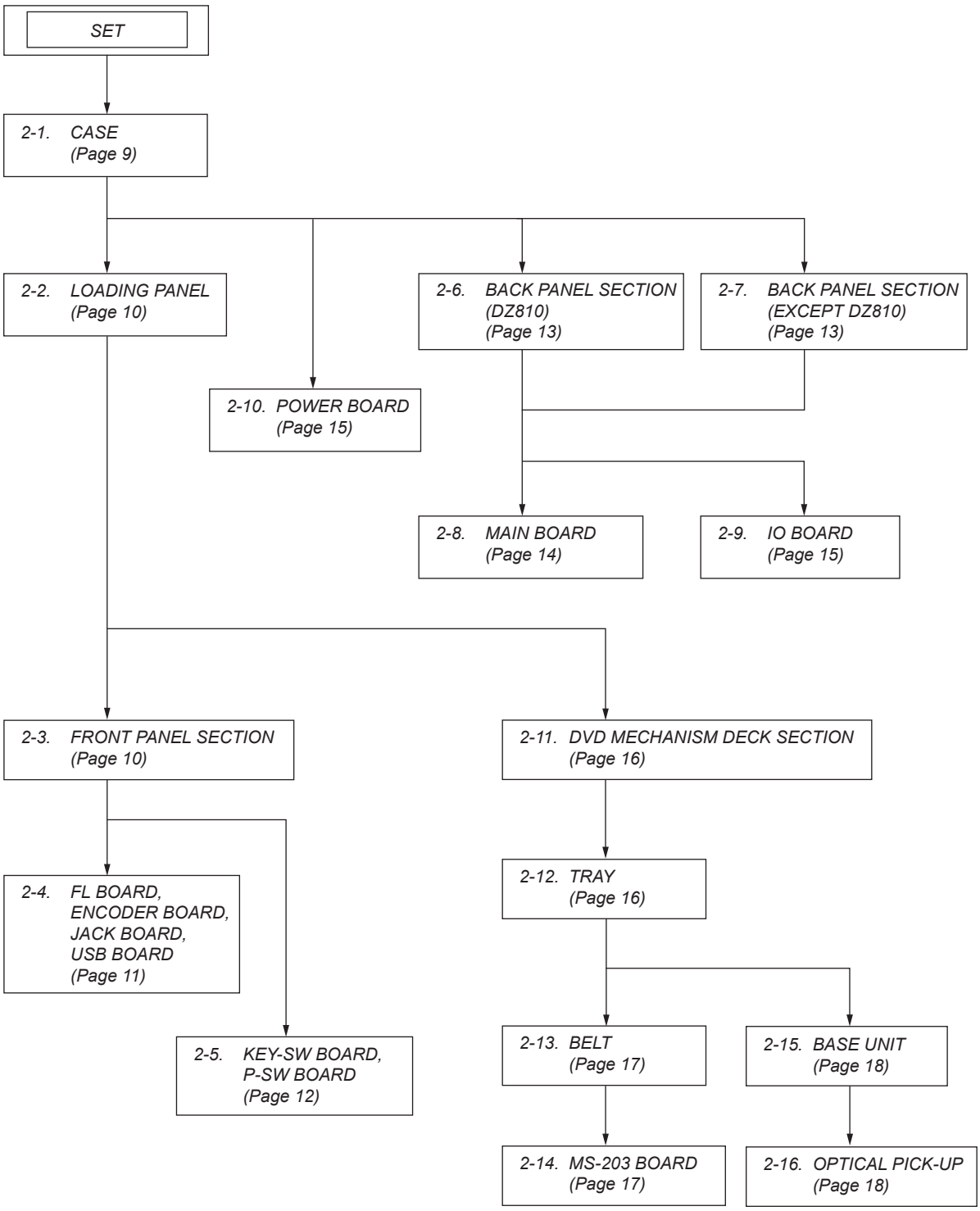
Point of capacitor discharge for C903:
Connect to the foot of C903.

Arranging the USB wire



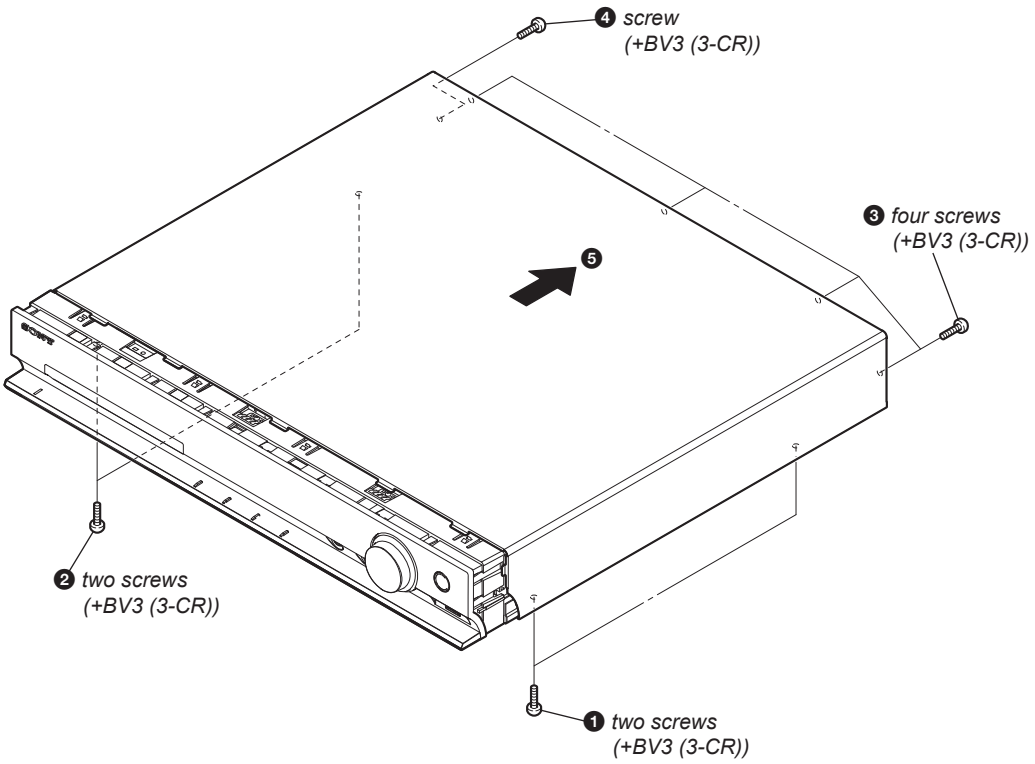
SECTION 2
DISASSEMBLY

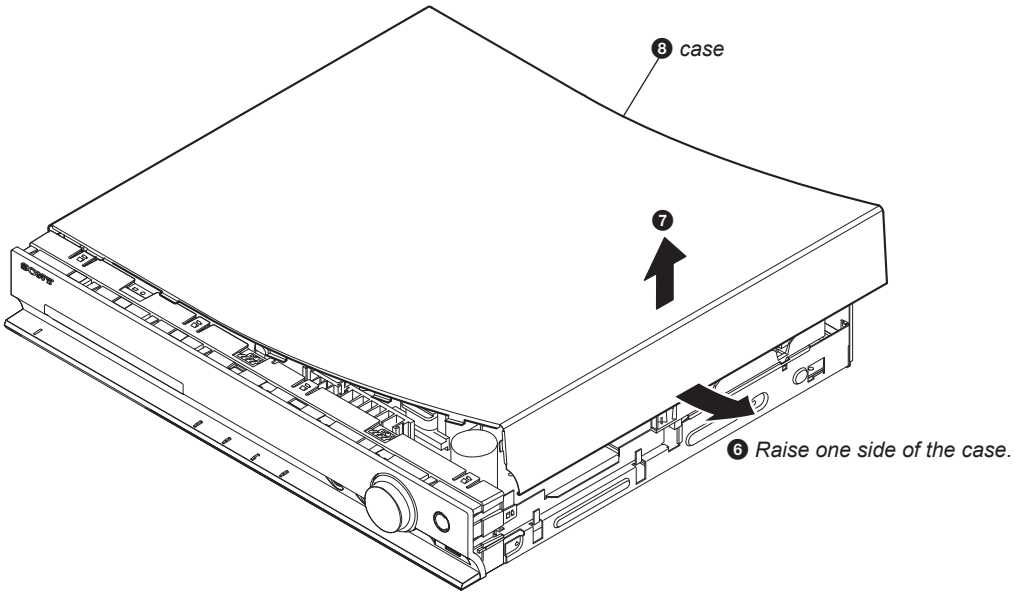
- This set can be disassembled in the order shown below.



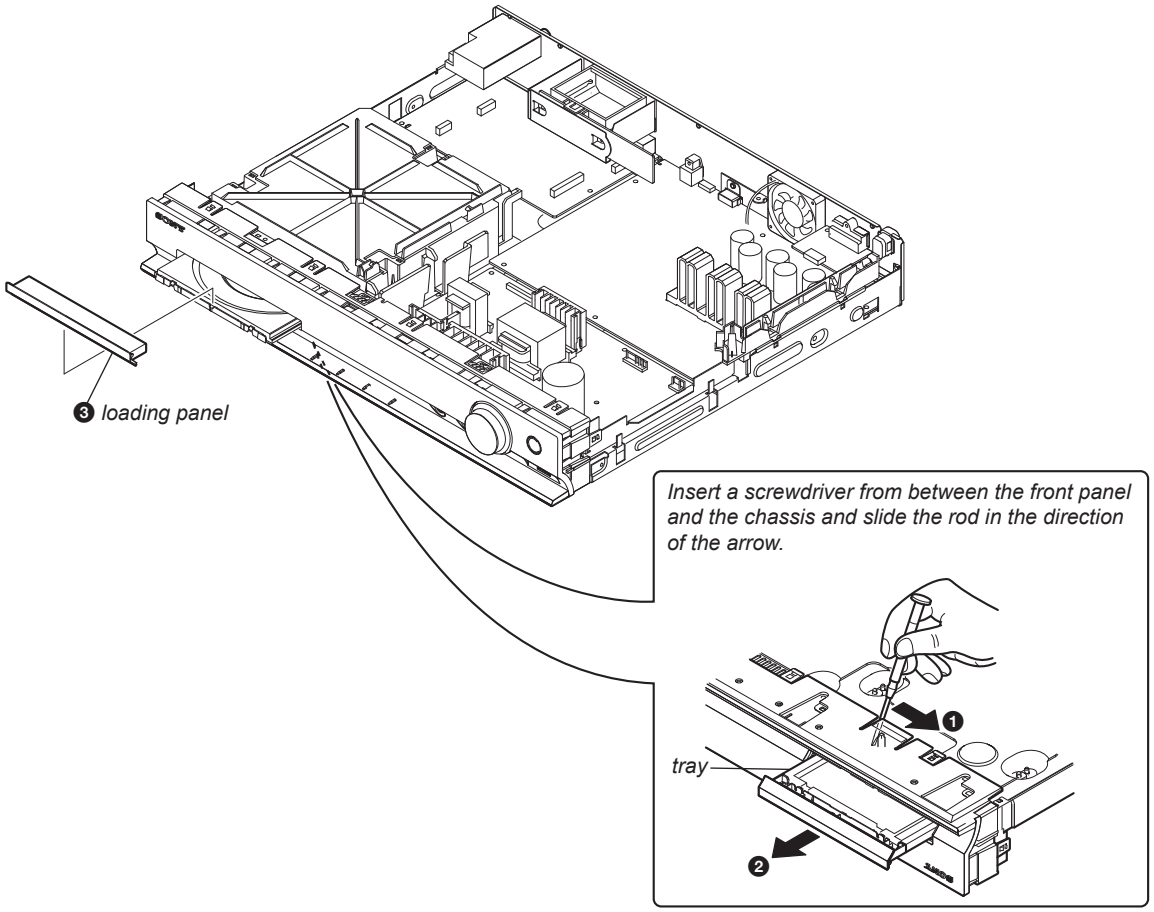
Note: Follow the disassembly procedure in the numerical order given.

2-1. CASE

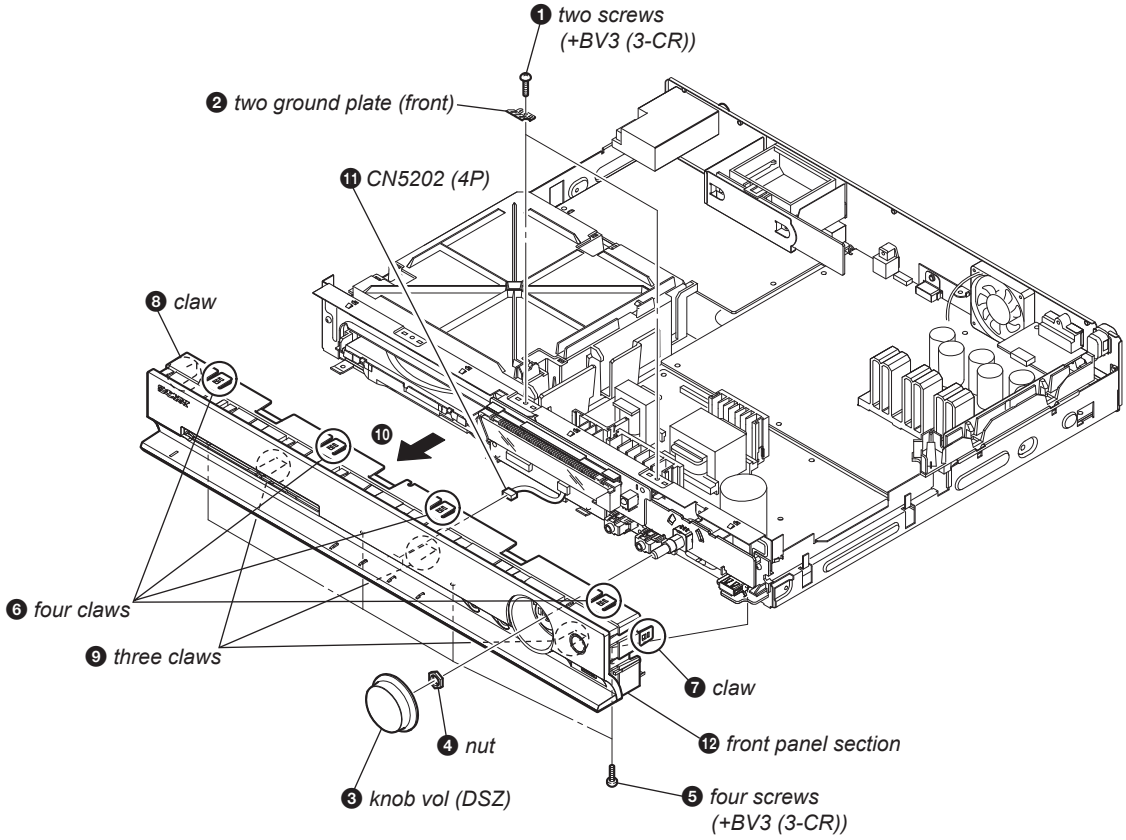




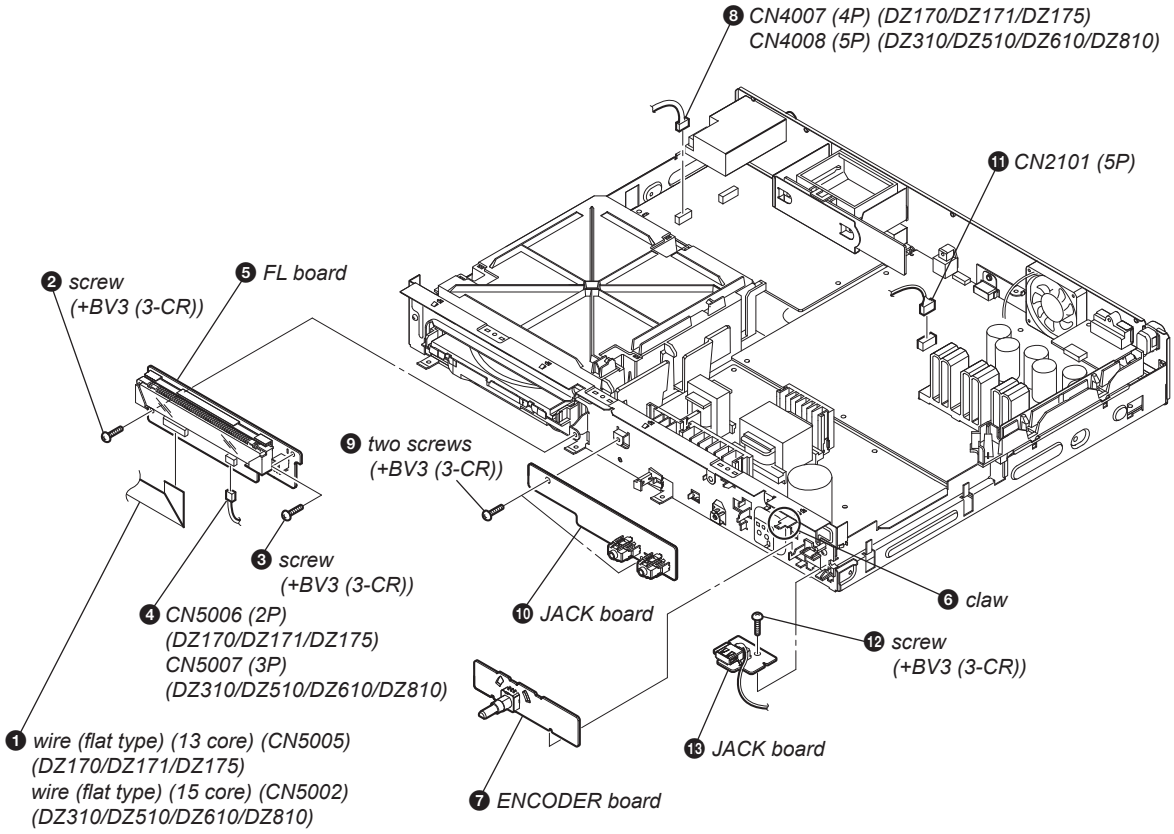
2-2. LOADING PANEL



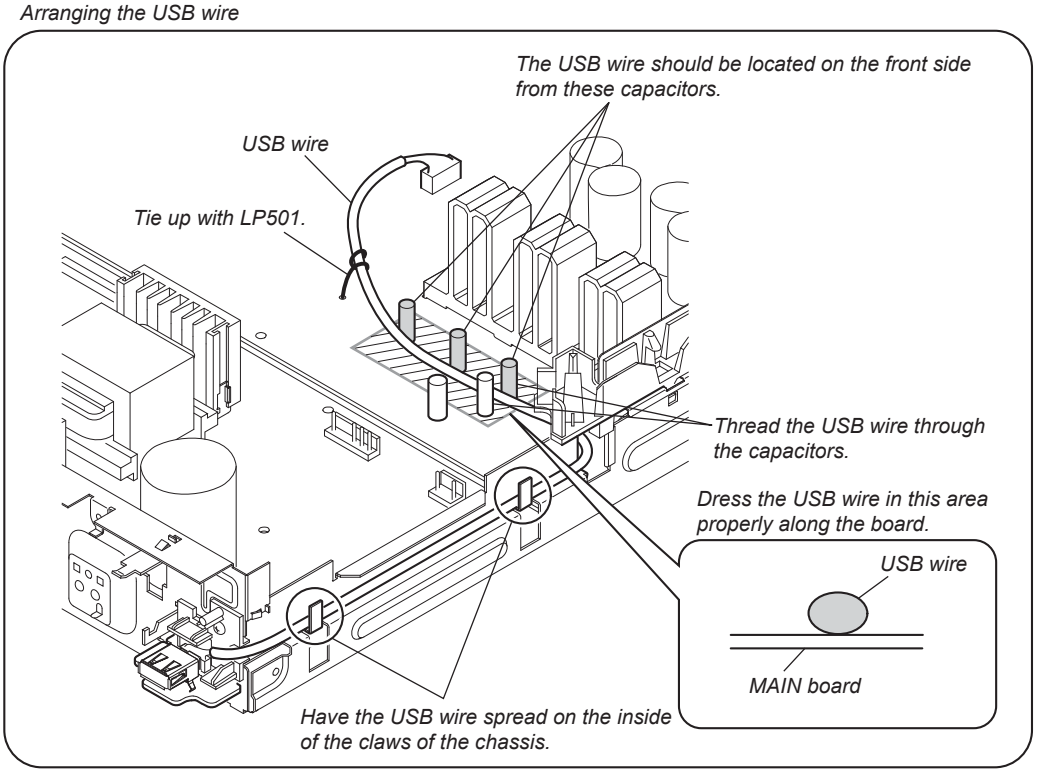
2-3. FRONT PANEL SECTION



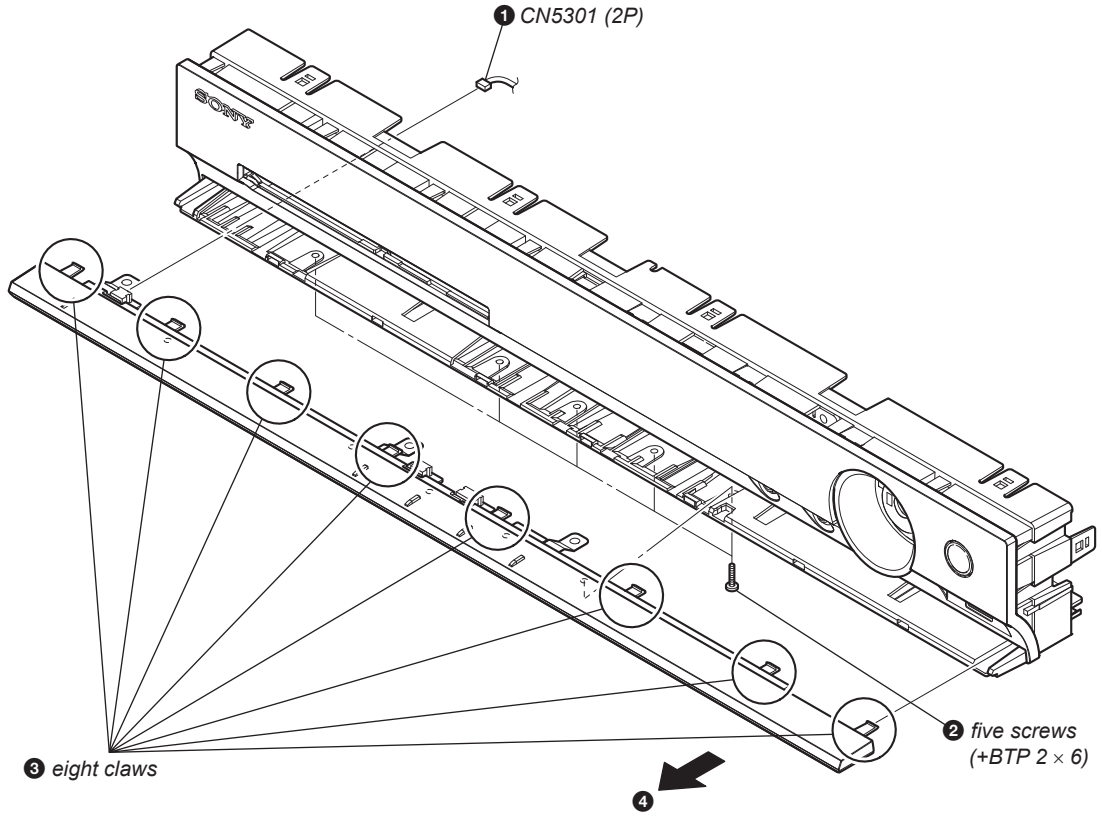
2-4. FL BOARD, ENCODER BOARD, JACK BOARD, USB BOARD

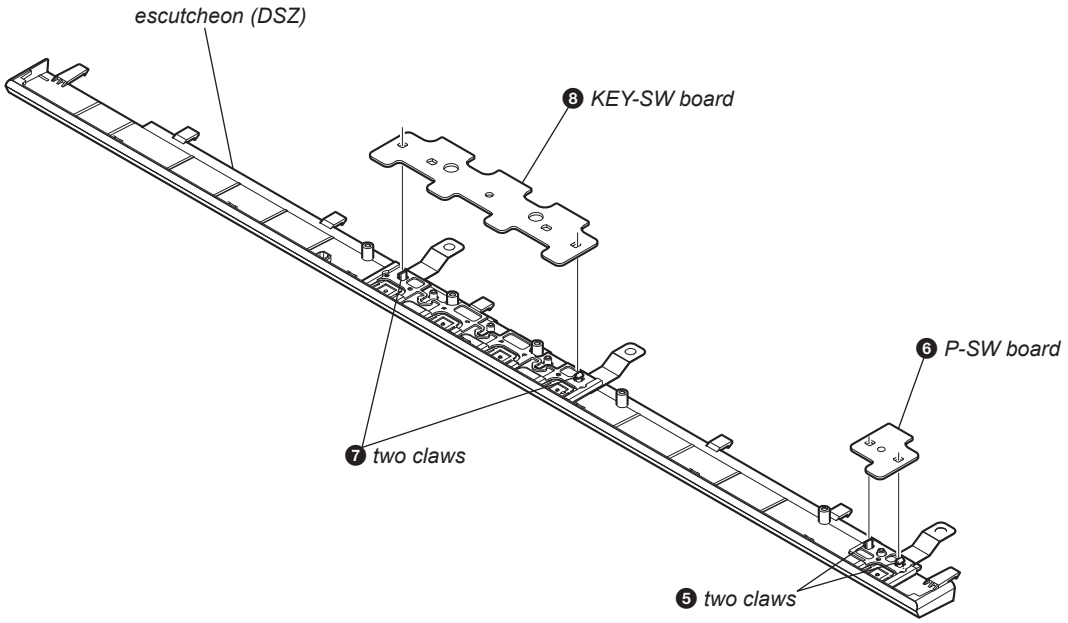


Arranging the USB wire

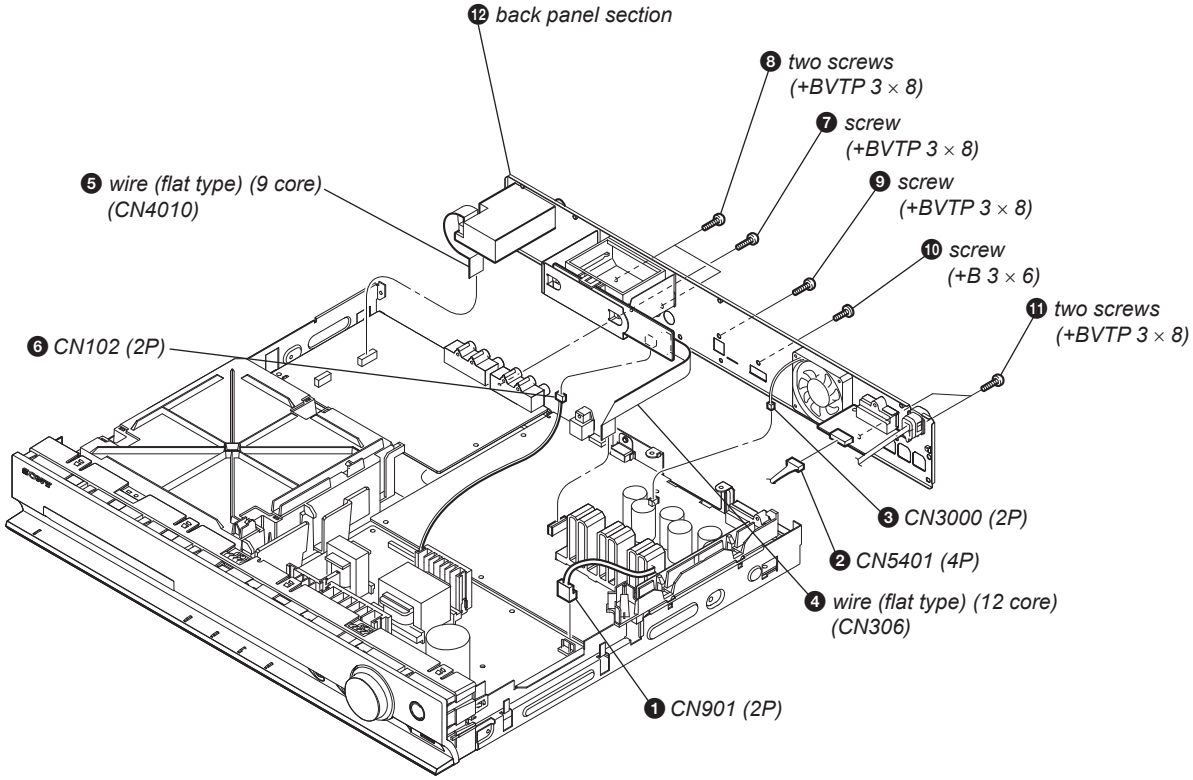


2-5. KEY-SW BOARD, P-SW BOARD

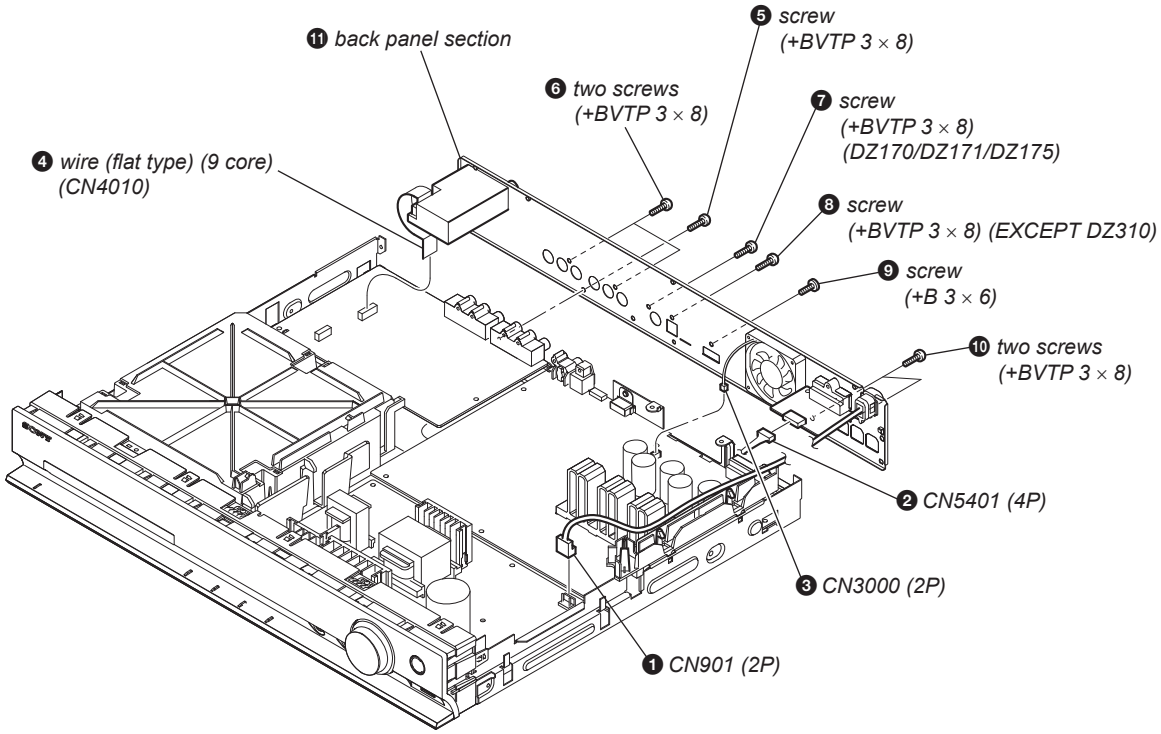




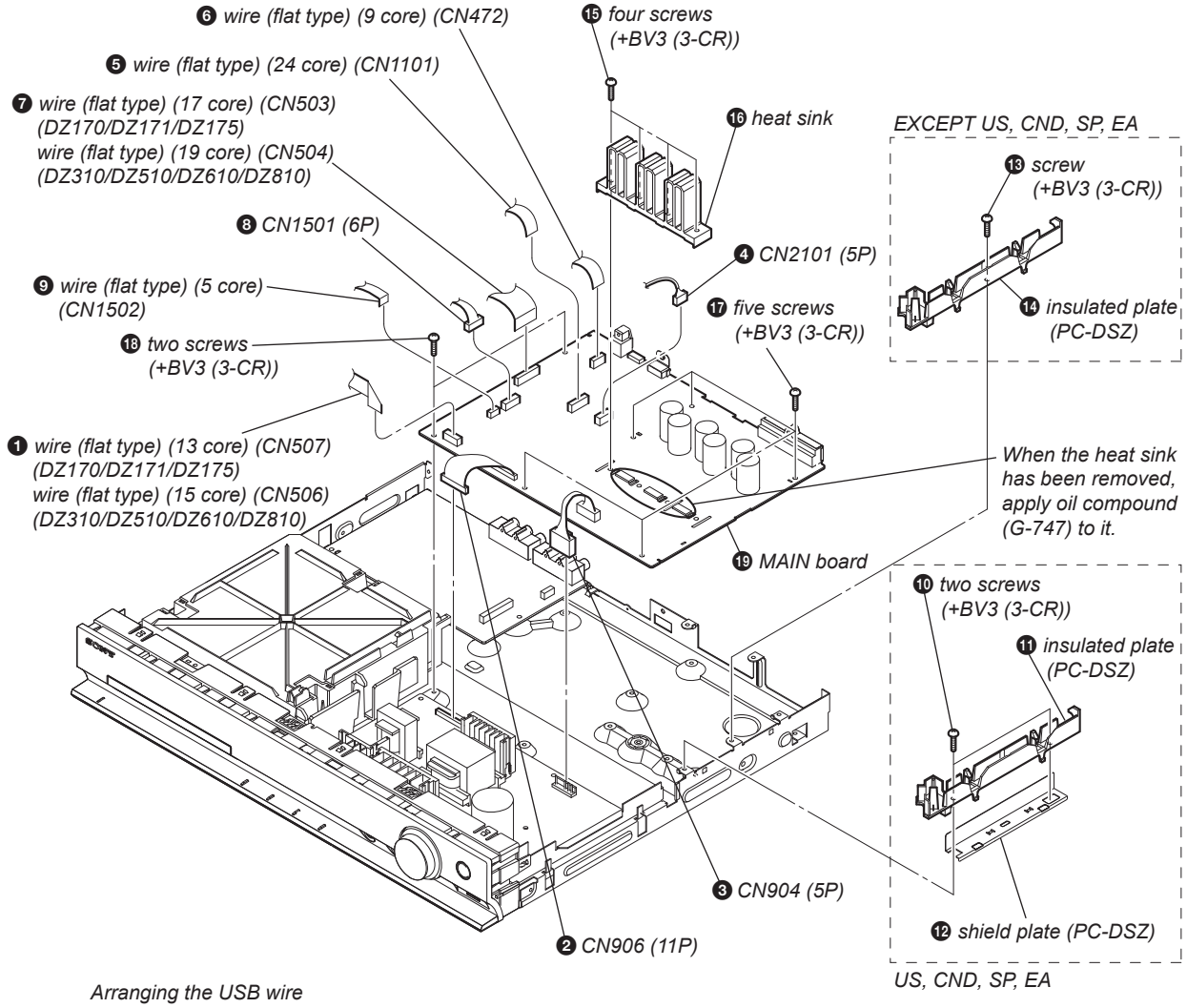
2-6. BACK PANEL SECTION (DZ810)



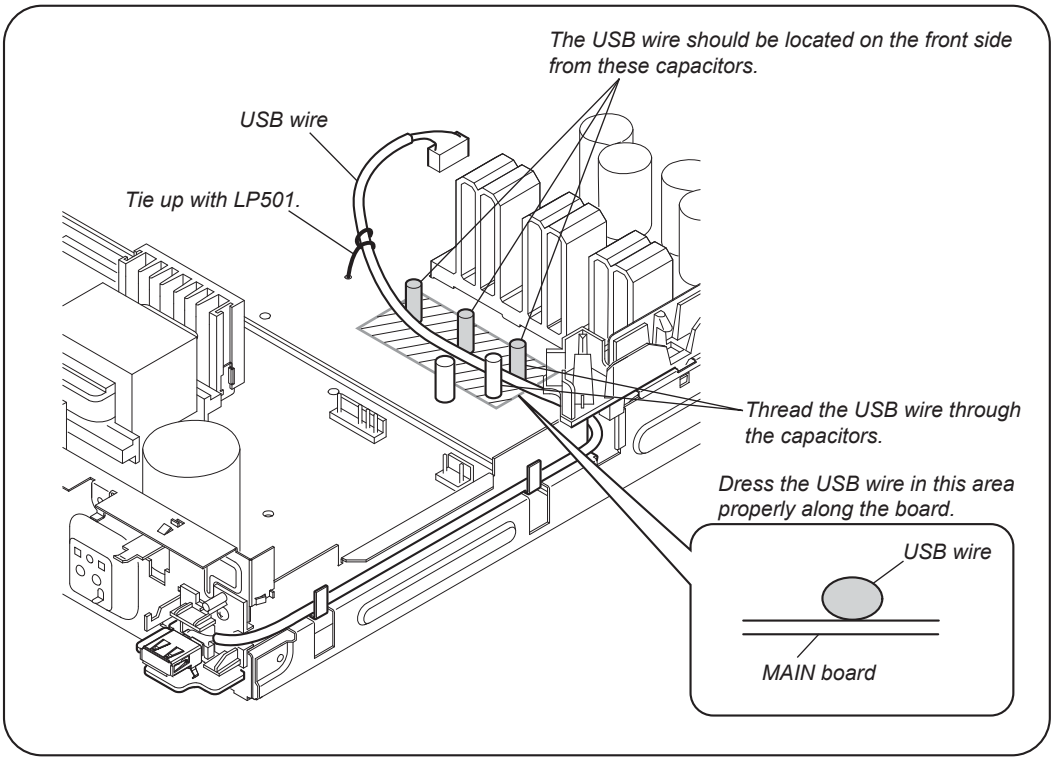
2-7. BACK PANEL SECTION (EXCEPT DZ810)



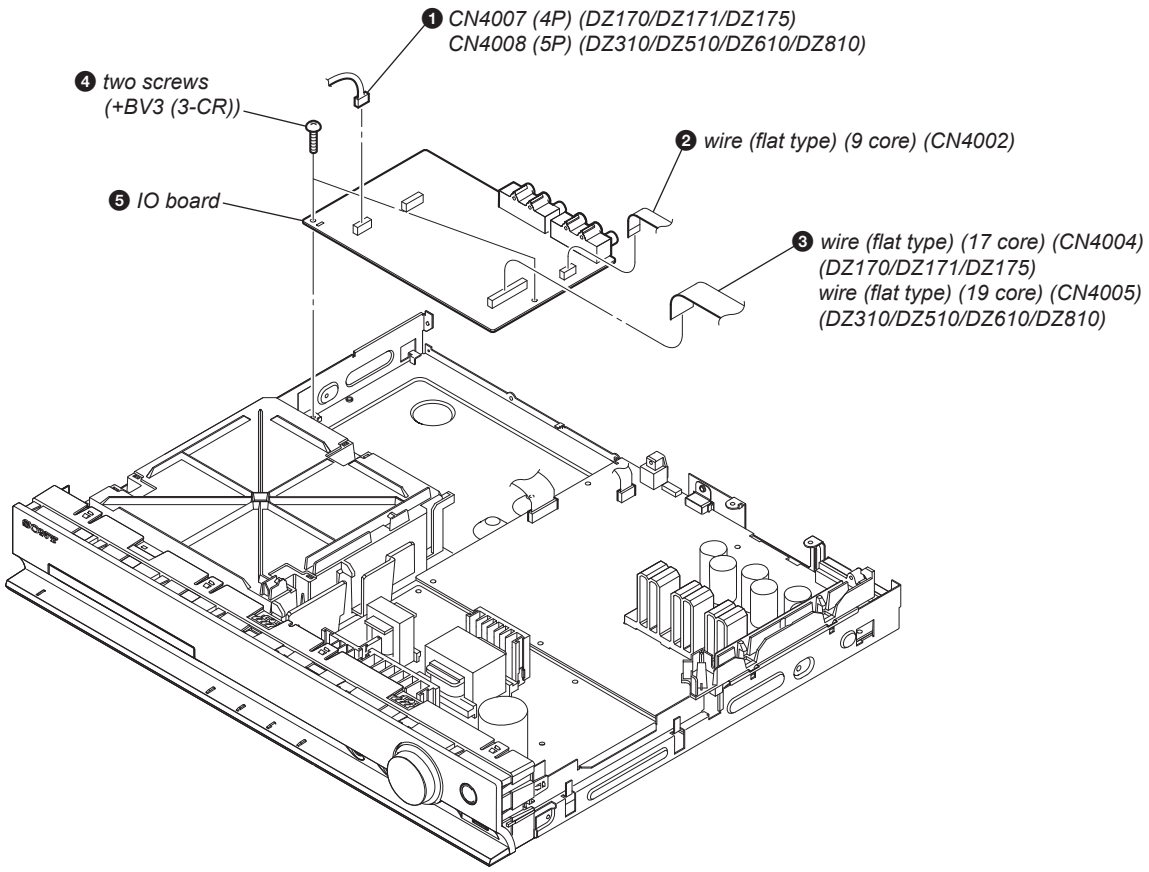
2-8. MAIN BOARD



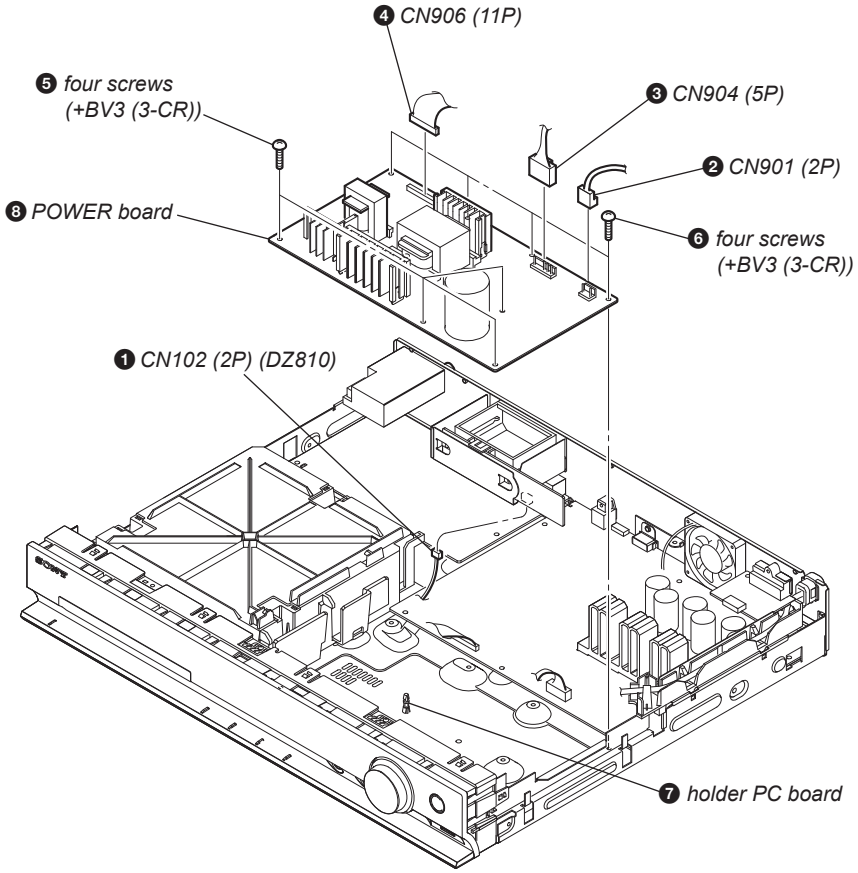
Arranging the USB wire



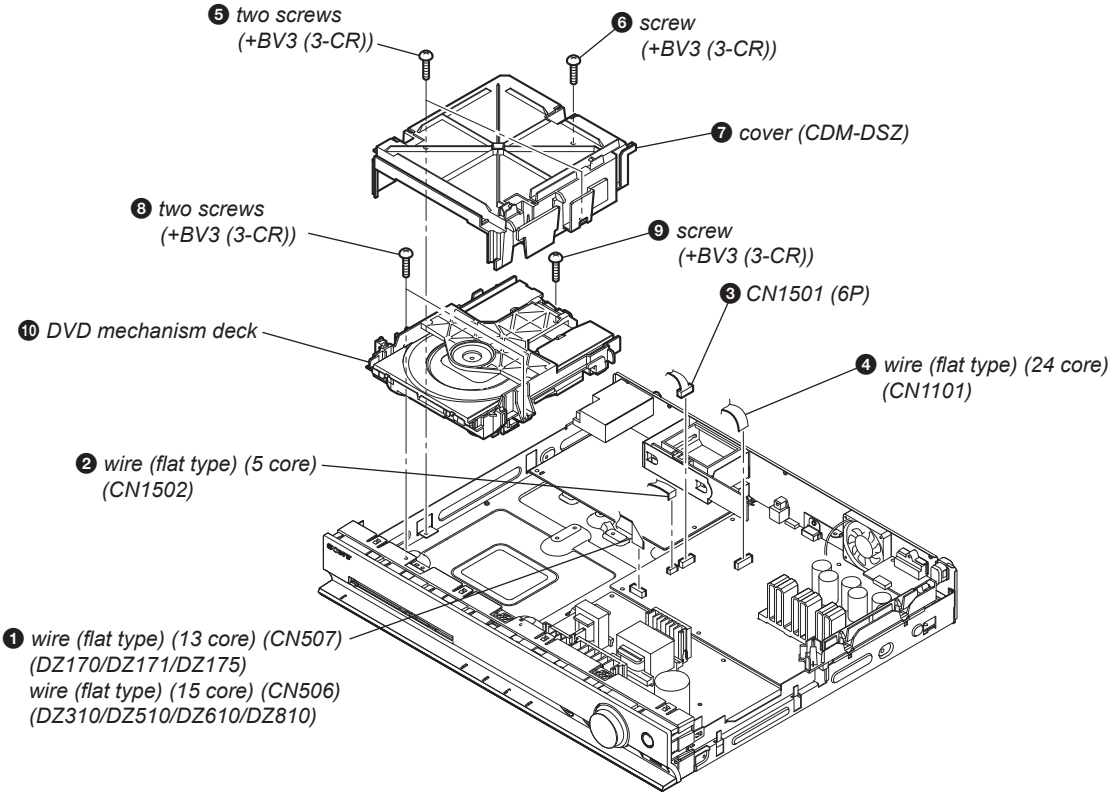
2-9. IO BOARD



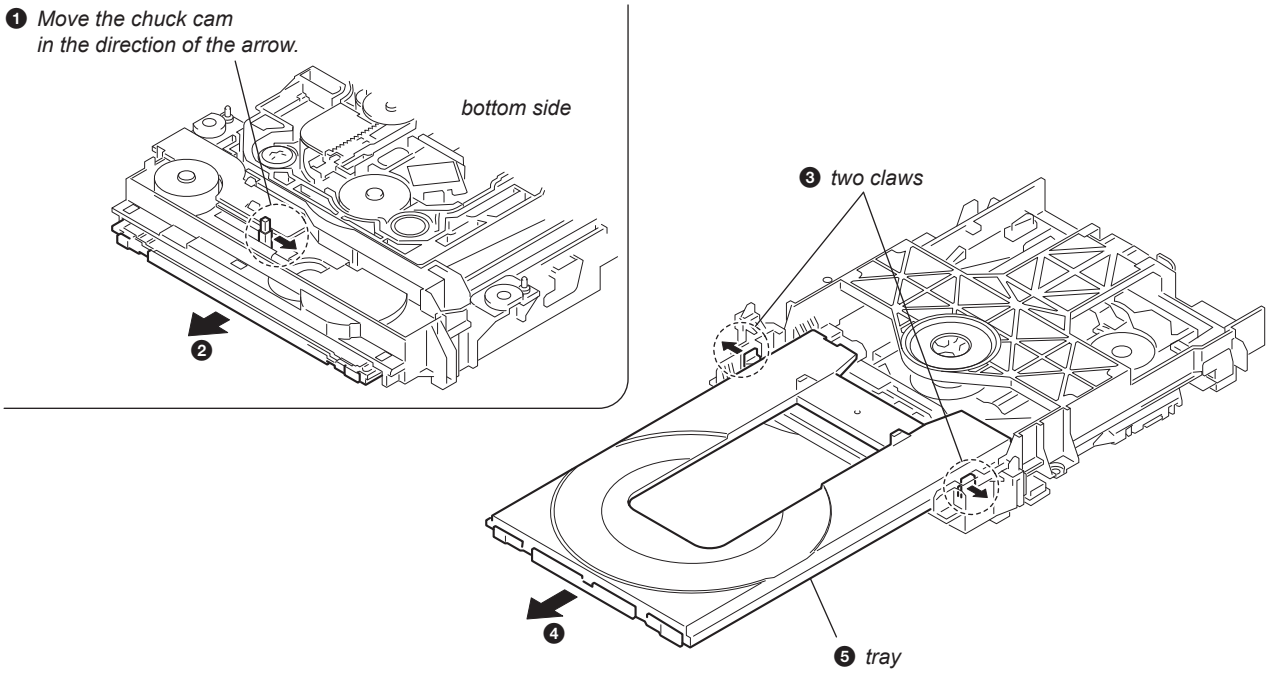
2-10. POWER BOARD



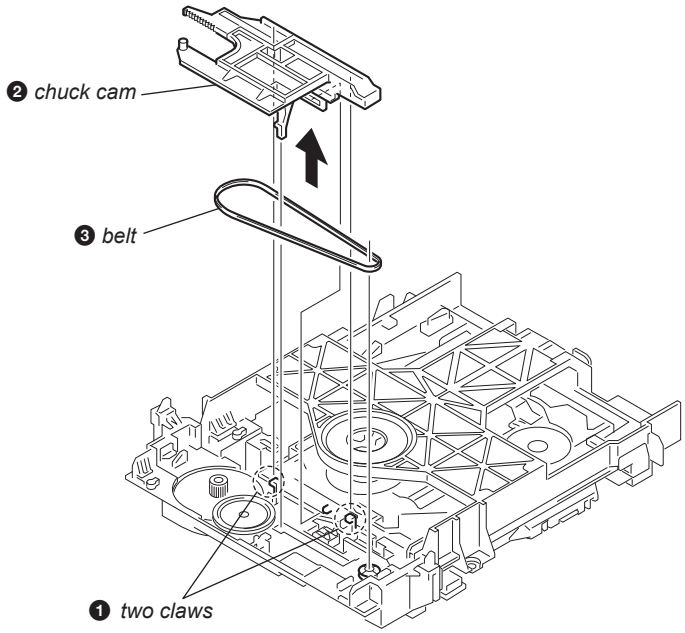
2-11. DVD MECHANISM DECK SECTION



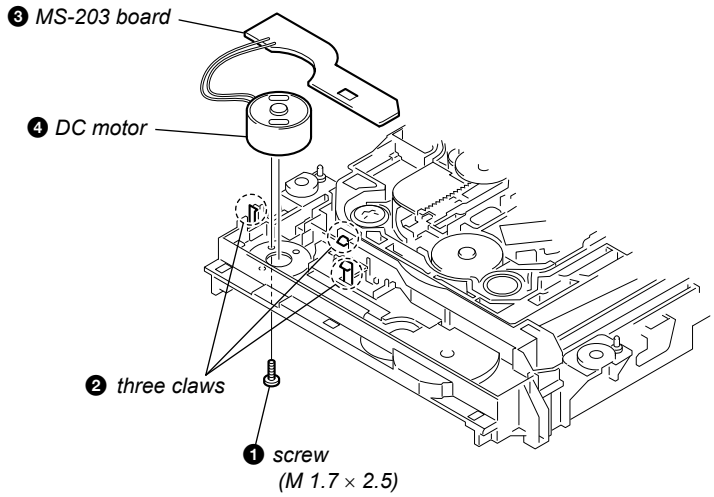
2-12. TRAY



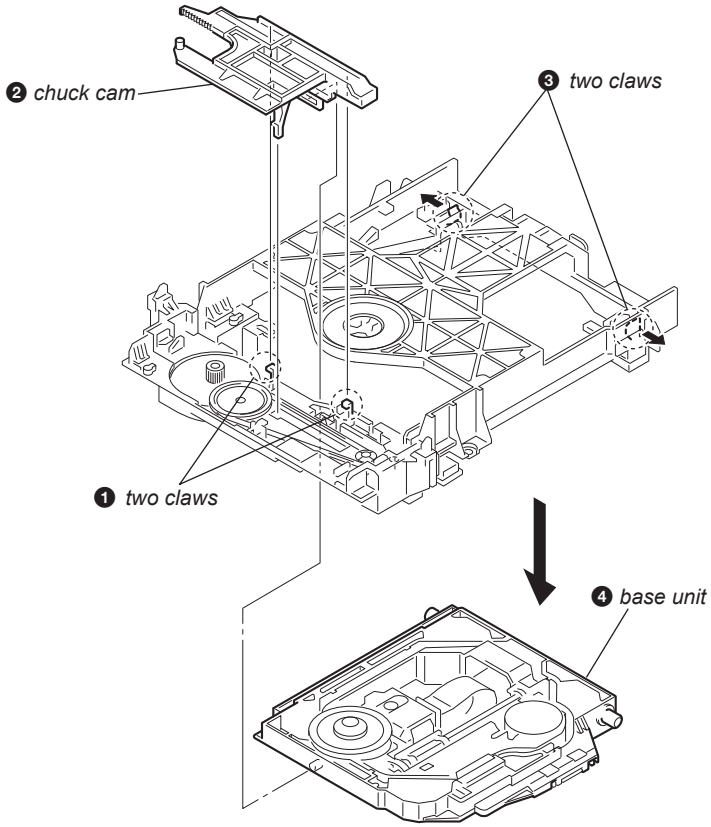
2-13. BELT



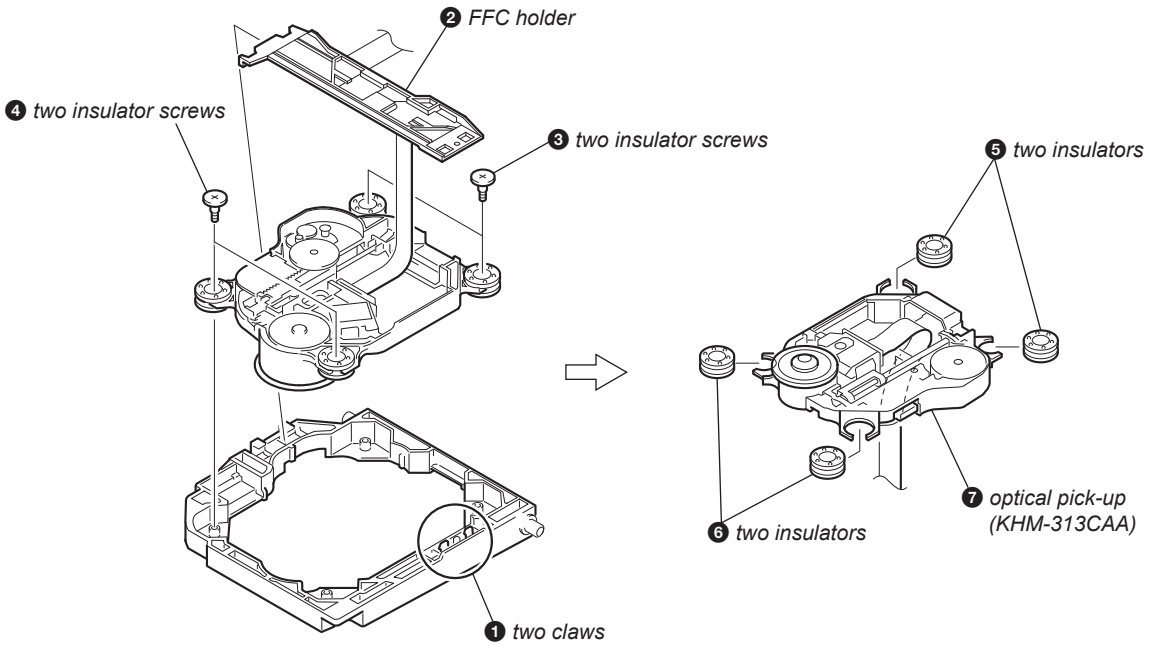
2-14. MS-203 BOARD



2-15. BASE UNIT



2-16. OPTICAL PICK-UP



SECTION 3
TEST MODE

Note: Incorrect operations may be performed if the test mode is not entered properly.
In this case, press the [I/⏻] button to turn the power off, and retry to enter the test mode.

1. Cold Reset

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customers.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press three buttons [►], [FUNCTION] and [I/⏻] simultaneously.
3. When this button is operated, display as “COLD RESET” for a while and all of the settings are reset.

2. Panel Test Mode

- This mode is used to check the software version, FL and KEY.

2-1. Display Test Mode

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. While pressing the [■] and the [►] buttons simultaneously, turn the [VOLUME] control in the direction of (+).
3. When the display test mode is activated, all segments are turned on. When the mode in, “REC TO USB” is turn off.
4. To exit from this mode, while pressing the [■] and the [►] buttons simultaneously, turn the [VOLUME] control in the direction of (+).

2-2. Version Test Mode

Procedure:

1. When the display test mode is activated, press the [FUNCTION] button and the message “DSZ2” (DZ170/DZ171), “DSZ2–” (DZ175), “DSZ2K” (DZ310), “DSZ3K” (DZ510), “DSZ4K” (DZ610), “DSZ7K” (DZ810) are displayed, the version test mode is activated.
2. Whenever the [FUNCTION] button is pressed, the display changes in the following order.

   “DSZ2” (Model name) → “NA*1” (Destination) → MC Version

   *1: NA changes depending on destination.
3. Press the [REC TO USB] button when the MC version is on display. The date of software production is displayed.
4. Press the [REC TO USB] button again and the version is displayed.
5. To exit from this mode, while pressing the [■] and the [►] buttons simultaneously, turn the [VOLUME] control in the direction of (+).

2-3. FL Pattern Test Mode

Procedure:

1. When the display test mode is activated, press the [⏏] button, to select the FL pattern test mode. When the FL pattern test mode, half segments of FL display and “REC TO USB” are turn on.
2. Press the [⏏] button, half segments of FL display and “REC TO USB” are turn off.
3. Next press the [⏏] button, all segments of FL display is turn on.
4. To exit from this mode, while pressing the [■] and the [►] buttons simultaneously, turn the [VOLUME] control in the direction of (+).

2-4. Key Test Mode

Procedure:

1. When the display test mode is activated, press the [I/⏻] button, to select the key test mode.
2. To enter the KEY test mode, the fluorescent indicator displays “K0 V0”. Each time an another button is pressed, “KEY” value increases. However, once a button is pressed, it is no longer taken into account. When all keys are pressed correctly, “K6 V0” is displayed.
3. When the [VOLUME] control is turned in the direction of (+), “V0” is changed to “V1”, then ... “V9”.
   When the [VOLUME] control is turned in the direction of (–), “V0” is changed to “V9”, then ... “V1”.
4. To exit from this mode, while pressing the [■] and the [►] buttons simultaneously, turn the [VOLUME] control in the direction of (+).

3. Disc Tray Lock

- The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Setting Procedure :

1. Press the [I/⏻] button to turn the set on.
2. Press the [FUNCTION] button to set DVD function.
3. Insert a disc.
4. Press the [■] button and the [⏏] button simultaneously for five seconds.
5. The message “LOCKED” is displayed and the tray is locked.

Releasing Procedure :

1. Press the [■] button and the [⏏] button simultaneously for five seconds again.
2. The message “UNLOCKED” is displayed and the tray is unlocked.

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

4. DVD Version Display

- The STR and DVD microprocessor versions are displayed.

Procedure:

1. Press the [I/⏻] button to turn the set on.
2. Press the [►] button and the [I/⏻] button simultaneously for three seconds. A SC version display is presented.
3. Pressing the [FUNCTION] button presents a DV version display. Pressing the [FUNCTION] button again returns to the SC version display.
4. To exit from this mode, press any button other than the [FUNCTION] button.

5. Product Out

- This mode moves the optical pick-up to the position durable to vibration and clears all data including preset data stored in the STR RAM to initial conditions. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the [FUNCTION] button to set the function “DVD/CD”.
3. Remove all discs, and then press three buttons [■], [⏏] and turn the [VOLUME] control in the direction of (+).
4. Displayed to message “SERVICE IN” on the fluorescent indicator tube when pressing in turn the [4] → [DVD MENU] → [CLEAR] buttons on the remote commander.
5. After the “STANDBY” blinking display finishes, the message “MECHA LOCK” ⇔ “UNPLUG” is displayed on the fluorescent indicator tube disconnect the AC power plug, then the product out mode is set.
   The STR RAM initialization is executed upon a next power-on after the power is turned off.

6. Color System Change (E3, E12, E15, EA, SP models)

• Color system change to video signal format (NTSC/PAL).

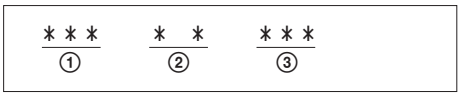
Procedure:

1. Press the [I/⏻] button to turn the set on.
2. Press the [FUNCTION] button to set the function "DVD/CD".
3. Press the [I/⏻] button to turn the set OFF.
4. Press two buttons [FUNCTION] and [I/⏻] simultaneously, and the display of fluorescent indicator tube changes to "COLOR PAL" or "COLOR NTSC".

7. D.C.A.C. (AUTOMATIC ACOUSTIC FIELD CALIBRATION) TEST MODE

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the [FUNCTION] button to set the function " DVD/CD".
3. Insert Calibration mic (ECM-AC2) supplied as an accessory into the A.CAL MIC jack.
4. Press three buttons [■], [⏏] and [REC TO USB] simultaneously.
5. Confirm that the following are shown on the display panel. The JACK inserted/non-inserted detection display and the display.



① MIC detection condition
NON : Not detected
IN : Detected

② Presence of DIGITAL sound data input to the microprocessor
NG: Input absent
OK: Input present

③ AD value (255h) of MIC input to the microprocessor

6. To exit from this mode, press three buttons [■], [⏏] and [REC TO USB] simultaneously.

8. PROTECTION FACTOR (SD DETECTION/ DC DETECTION) IDENTIFICATION TEST MODE

When an error is detected, the FL tube alternately displays "PROTECTOR ⇦⇨ PUSH POWER".

↓ Press the [I/⏻] button.
* Buttons other than the [I/⏻] button are invalid.

"STANDBY" blinks three times on the FL tube.

↓

The protection release state (POWER OFF) is established.
(No FL tube display)

↓ Press the [I/⏻] button two times.

The power to the system turns on, and the normal operation is established. (Restore)

During the protection state:

1. If the AC plug is connected or disconnected during the protection state, the protection state is released, and the normal operation is established. (The protection state is not maintained.)
2. The protection factor is displayed by pressing the [RETURN] → [3] → [2] → [0] → [0] → [ANGLE] buttons of the remote commander.
   (during the "PROTECTOR ⇦⇨ PUSH POWER" display).
   ⇨ When SD is detected: Repeats "SD DETECT ⇦⇨ PROTECTOR".
   ⇨ When DC is detected: Repeats "DC DETECT ⇦⇨ PROTECTOR".
   ⇨ When TSD is detected: Repeats "TEMP DETECT ⇦⇨ PROTECTOR".

PL: SD detection

When the "L" output from the SD (shutdown) port on the S-MASTER POWER Driver Shutdown and voltage descent (15V or less) of 30V power supply (PVDD) are detected.

DC detection

When the "L" output from the power/speaker error detection circuit (DC detection port) is detected for two seconds continually, the power system other than that of the FL tube is turned off, and the protection state is established.

TSD detection

When the "L" output from the thermal shutdown port on the motor driver is detected.

DVD SECTION

9-1. GENERAL DESCRIPTION

- The IOP measurement allows you to make diagnosis and adjustment simply by using the remote commander and monitor TV. The instructions, diagnosis results, etc. are given on the on-screen display (OSD).
  Be sure to execute the IOP measurement when a BU (Base Unit) is replaced.

9-2. HOW TO ENTER TEST MODE

While pressing the [■] and the [⏏] buttons simultaneously, turn the [VOLUME] control in the direction of (+) with the DVD player in on.
The Test Mode starts, displayed "SERVICE IN" on this model display then the menu shown below will be displayed on the TV screen.

* The display of the "Model Name" of the "Remocon Diagnosis Menu" change with the model and the destination. Refer to below on the model name.

DZ170 : DSZ2
DZ171 : DSZ2
DZ175 : DSZ2–
DZ310 : DSZ2K
DZ510 : DSZ3K
DZ610 : DSZ4K
DZ810 : DSZ7K

```
        Remocon Diagnosis Menu

0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History
4. Version Information


Model Name  : DSZ2_XX   *1
IF-con      : Ver. XX.XX (XXXX)
Syscon      : Ver. X.XXX
```

*1: Changes depending on destination

The menu above is the Remocon Diagnosis Menu screen which consists of five main functions. At the bottom of the menu screen, the model name and IF-con version. To exit from the Test Mode, press the [I/⏻] button on the remote commander.

9-3. EXECUTING IOP MEASUREMENT

In order to execute IOP measurement, the following standard procedures must be followed.

(1) In power on, while pressing the [■] and the [⏏] buttons simultaneously, turn the [VOLUME] control in the direction of (+).

```
        Remocon Diagnosis Menu

0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History
4. Version Information


Model Name  : DSZ2_XX   *1
IF-con      : Ver. XX.XX (XXXX)
Syscon      : Ver. X.XXX
```

*1: Changes depending on destination

(2) Select "2. Drive Manual Operation" by pressing the [2] button on the remote commander. The screen will appear as shown.

```
        Drive Manual Operation

1. Servo Control
2. Track/Layer Jump
3. Manual Adjustment
4. Tray Aging Mode
5. MIRR time adjust
0. Return to Top Menu
```

(3) Select "3. Manual Adjustment" by pressing the [3] button on the remote commander. The screen will appear as shown.

```
          Manual Adjust

1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eq Boost Adjust:
6. Iop:
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:

[↑][↓] Change Value
[RETURN] Return to previous menu
```

(4) Select "6. IOP" by pressing the [6] button on the remote commander.

(5) Wait until a hexadecimal number appear.

```
          Manual Adjust

1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eq Boost Adjust:
6. Iop. 49:
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:

[↑][↓] Change Value
[RETURN] Return to previous menu
```

(6) Convert each data from hexadecimal to decimal using conversion table.

(7) Please find the label on the rear of the BU (Base Unit).
The default IOP value is written in the label.

(8) Subtract between these two values.

(9) If the remainder is smaller than 93 (decimal), then it is OK. However if the value is higher than 93, then the BU is defective and need to be change.

(10) Press the [RETURN] button on the remote commander to return back to previous menu.

(11) Press the [0] button on the remote commander to return to Top Menu.

9-4. EMERGENCY HISTORY

To check the emergency history, please follow the following procedure.

(1) From the Top Menu of Remocon Diagnosis Menu, select "3. Emergency History Check" by pressing the [3] button on the remote commander. The following screen appears on the on-screen display.

```
                Emg. History Check

Laser Hours        CD     999h        59min
                   DVD    999h        59min

01.  01  05  04  04      00  92  46  00
     00  00  00  00      00  00  23  45
02.  02  02  01  01      00  A9  4B  00
     00  00  00  00      00  00  23  45

[Next]   Next Page    [Prev]  Prev Page
[O]  Return to Top Menu
```

(2) You can check the total time when the laser is turned on during playback of DVD and CD from the above menu. The maximum time, which can be displayed are 999h 59min.

(3) You can check the error code of latest 10 emergency history from the above menu. To view the previous or next page of emergency history, press [I◄◄] or [►►I] button on the remote commander. The error code consists of the following three blocks. The first block indicates the error code. The second block indicates the parameter and the third block indicates the time of error code as shown below.

- **Error Code**

```
                Emg. History Check

Laser Hours        CD     999h        59min
                   DVD    999h        59min
      *1  *2
01.  01  05  04  04      00  92  46  00
     00  00  00  00      00  00  23  45 *3
02.  02  02  01  01      00  A9  4B  00
     00  00  00  00      00  00  23  45

[Next]   Next Page    [Prev]  Prev Page
[O]  Return to Top Menu
```

*1 : Error Code
*2 : Parameter of error code
*3 : Time of error code

The meaning of error code is as below:

01: Communication error (No reply from syscon)
02: Syscon hung up
03: Power OFF request when syscon hung up
19: Thermal shutdown
24: MoveSledHome error
25: Mechanical move error (5 Changer)
26: Mechanical move stack error
30: DC motor adjustment error
31: DPD offset adjustment error
32: TE balance adjustment error
33: TE sensor adjustment error
34: TE loop gain adjustment error
35: FE loop gain adjustment error
36: Bad jitter after adjustment
40: Focus NG
42: Focus layer jump NG
51: Spindle stop error
52: Open kick spindle error
60: Focus on error
61: Seek fail error
62: Read Q data/ID error
70: Lead in data read fail
71: TOC read time out (CD)
80: Can't buffering
81: Unknown media type

9-4-1. Clear the Laser Hour

Press [▭ DISPLAY] button and then press [CLEAR] button on the remote commander. The data for both CD and DVD data are reset.

```
                Emg. History Check

Laser Hours        CD     0h          0min
                   DVD    0h          0min

01.  01  05  04  04      00  92  46  00
     00  00  00  00      00  00  23  45
02.  02  02  01  01      00  A9  4B  00
     00  00  00  00      00  00  23  45

[Next]   Next Page    [Prev]  Prev Page
[O]  Return to Top Menu
```

9-4-2. Clear the Emergency History

Press [DVD TOP MENU] button and then press [CLEAR] button on the remote commander. The error code for all emergency history would be reset.

```
                Emg. History Check

Laser Hours        CD     999h        59min
                   DVD    999h        59min

01.  00  00  00  00      00  00  00  00
     00  00  00  00      00  00  00  00
02.  00  00  00  00      00  00  00  00
     00  00  00  00      00  00  00  00

[Next]   Next Page    [Prev]  Prev Page
[O]  Return to Top Menu
```

9-4-3. Clear the Initialize Setup Data

Press [DVD MENU] button and then press [CLEAR] button on the remote commander.

```
                Emg. History Check

Laser Hours        CD     999h        59min
                   DVD    999h        59min

              initialize setup data...




[Next]   Next Page    [Prev]  Prev Page
[O]  Return to Top Menu
```

9-4-4. Return to the Top Menu of Remocon Diagnosis Menu

Press [0] button on the remote commander.

9-5. CHECK VERSION INFORMATION

To check the version information, please follow the following procedure.

(1) From the Top Menu of Remocon Diagnosis Menu, select "4. Version Information" by pressing the [4] button on the remote commander. The following screen appears on the on-screen display.

```
Version information

Firm (Main) :  Ver. xxxxx
Firm (Sub) :  xxxxx
RISC :  xxxxx
8032 :  xxxxx
Audio DSP :  xxxxx
Servo DSP :  xxxxx
Phy,Adr,  :  F.F.F.F

[O]  Return to Top Menu
```

To return to the Top Menu of Remocon Diagnosis Menu, press [0] button on the remote commander.

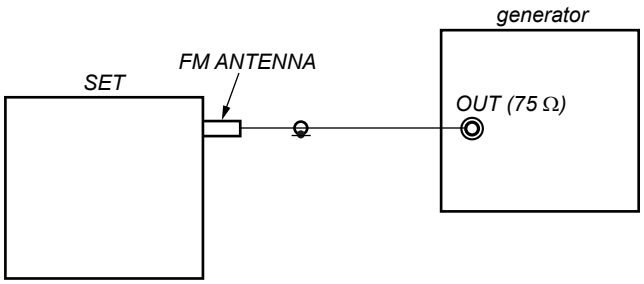
DVD SECTION

When the optical pick-up assy is replaced, perform the "EXECUTING IOP MEASUREMENT".

EXECUTING IOP MEASUREMENT (See page 21)

TUNER SECTION

[FM Tune Level Check]



Procedure:

1. Turn the power on.
2. Input the following signal from Signal Generator to FM antenna input directly.

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

Note: Please use 75 ohm "coaxial cable" to connect SG and the set. You cannot use video cable for checking.
Please use SG whose output impedance is 75 ohm.

3. Set to FM tuner function and tune A, B and C signals.
4. Confirm "TUNED" is lit on the display for A, B and C signals.

The mark of "TUNED" means "The selected station signal is received in good condition."

SECTION 5
DIAGRAMS

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

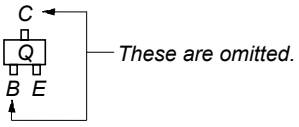
For Printed Wiring Boards.

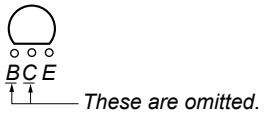
Note:

- ○——: Parts extracted from the component side.
- ○ : Through hole.
- ▬ : Pattern from the side which enables seeing.
  (The other layers' patterns are not 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.

- Indication of transistor.





- Abbreviation
  CND : Canadian model
  E3 : 240V AC area in E model
  E12 : 220 – 240V AC area in E model
  E15 : Iranian model
  E32 : 110 – 240V AC area in E model
  EA : Saudi Arabia model
  SP : Singapore model

For Schematic Diagrams.

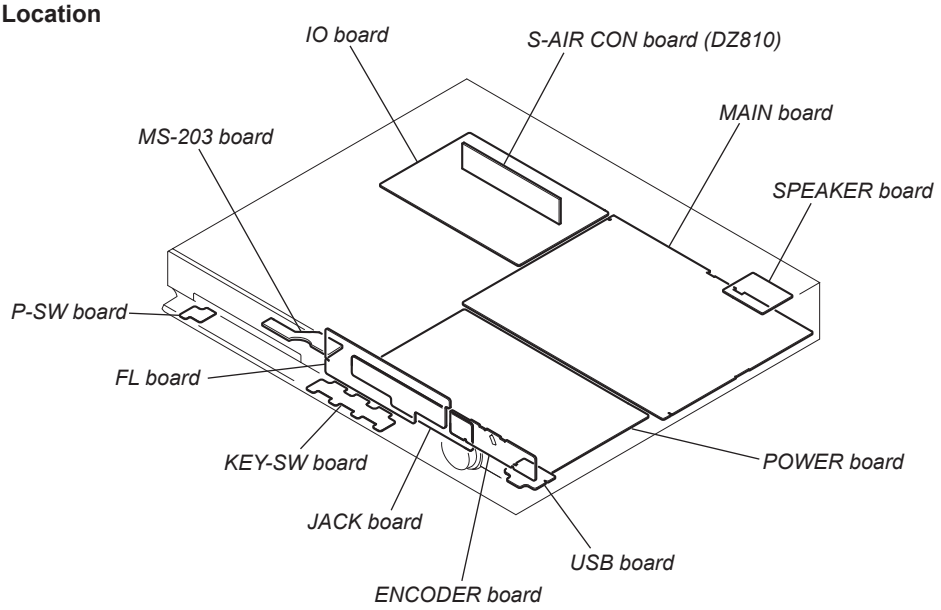
Note:

- 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.

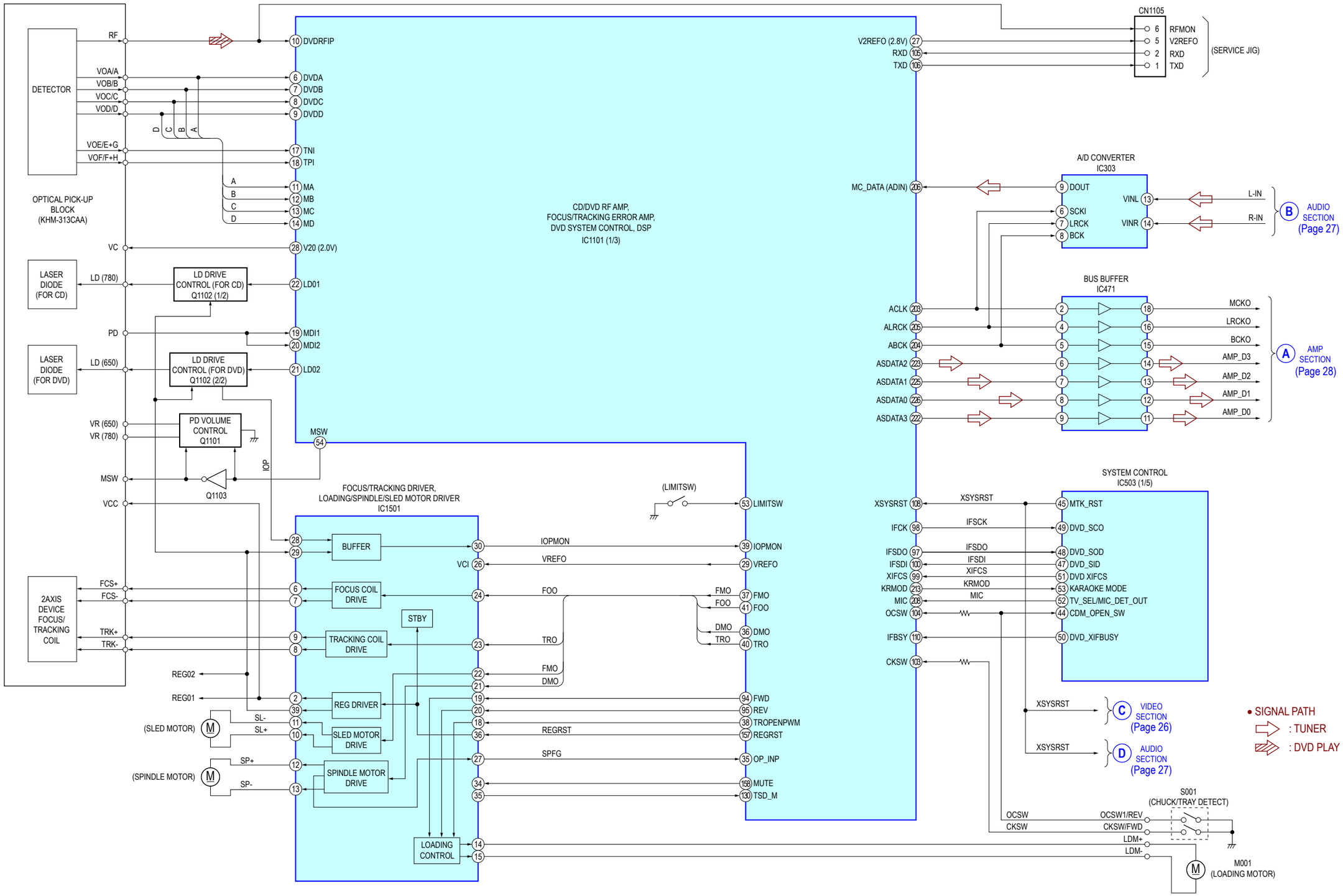
Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬▬: B+ Line.
- ▬ ▬ ▬: B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages and waveforms are dc with respect to ground in service mode.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
  no mark: TUNER (FM)
  < > : DVD PLAY
  ∗ : Impossible to measure
- Voltages are taken with VOM (Input impedance 10 MΩ).
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : TUNER
  ⇨ : DVD PLAY
  ⇨ : VIDEO
  ⇨ : Y
  ⇨ : CHROMA
  ⇨ : COMPONENT VIDEO
  ▷ : MIC
- Abbreviation
  CND : Canadian model
  E3 : 240V AC area in E model
  E12 : 220 – 240V AC area in E model
  E15 : Iranian model
  E32 : 110 – 240V AC area in E model
  EA : Saudi Arabia model
  SP : Singapore model

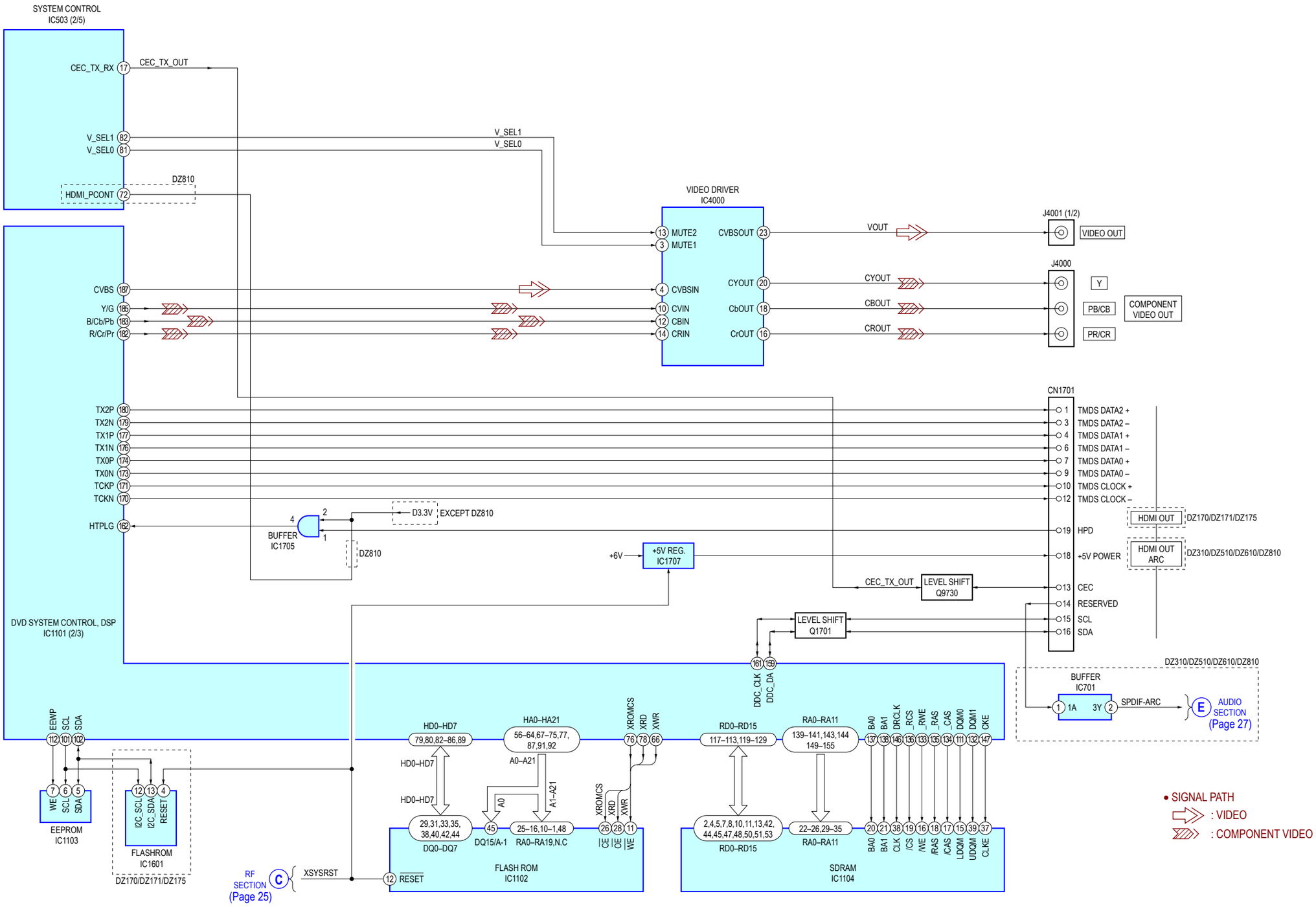
- **Circuit Boards Location**



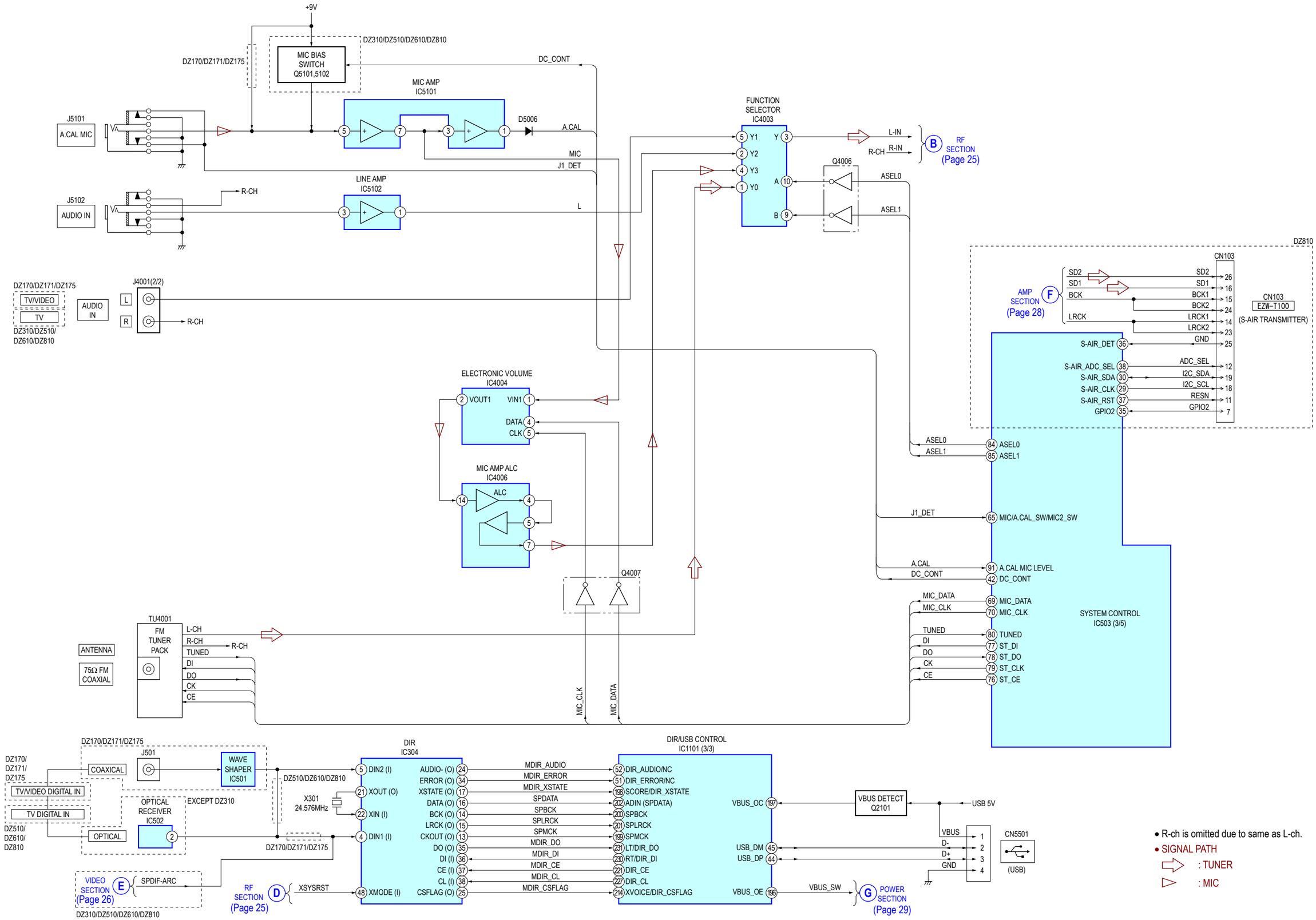
5-1. BLOCK DIAGRAM – RF Section –



5-2. BLOCK DIAGRAM – VIDEO Section –

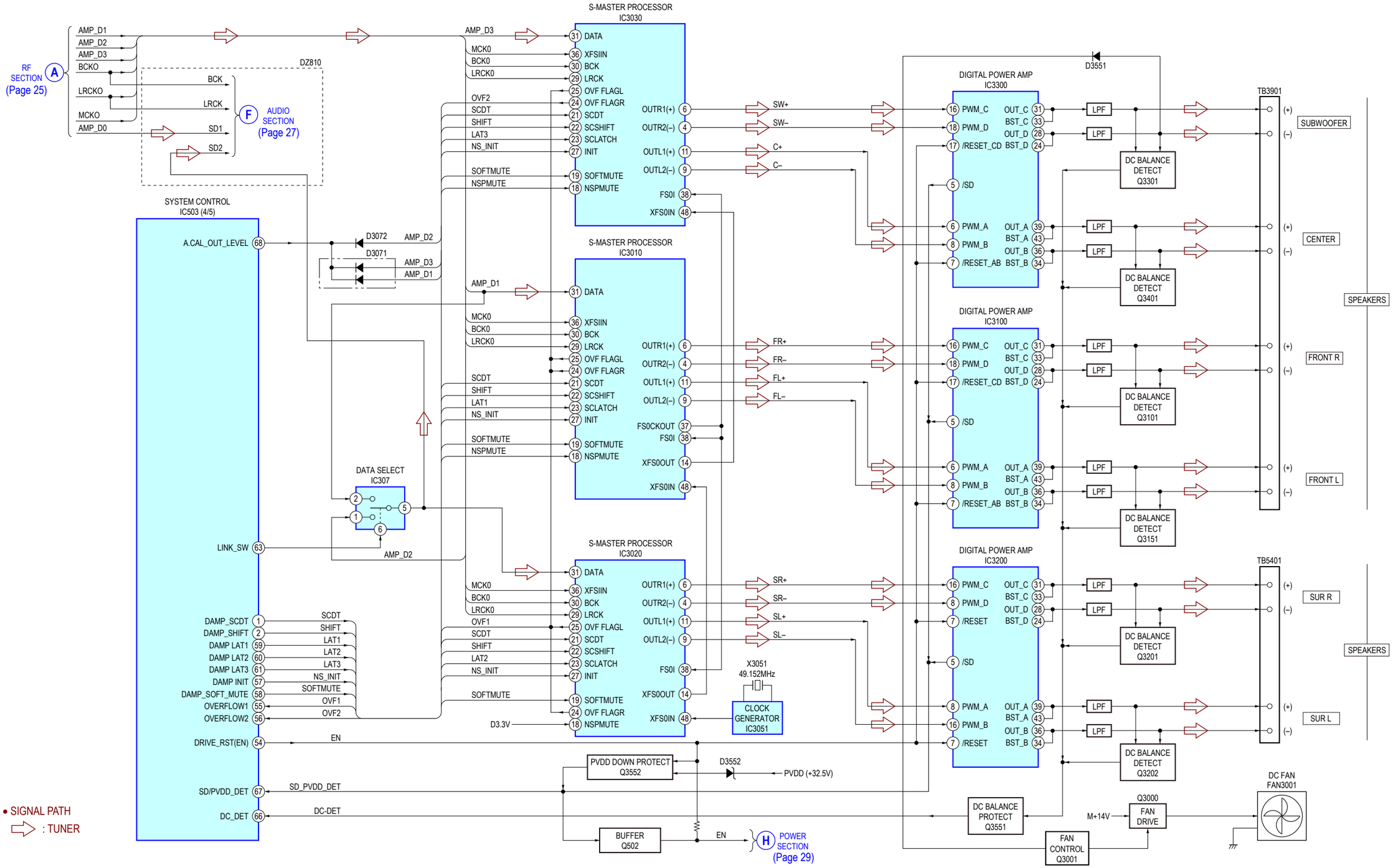


5-3. BLOCK DIAGRAM – AUDIO Section –

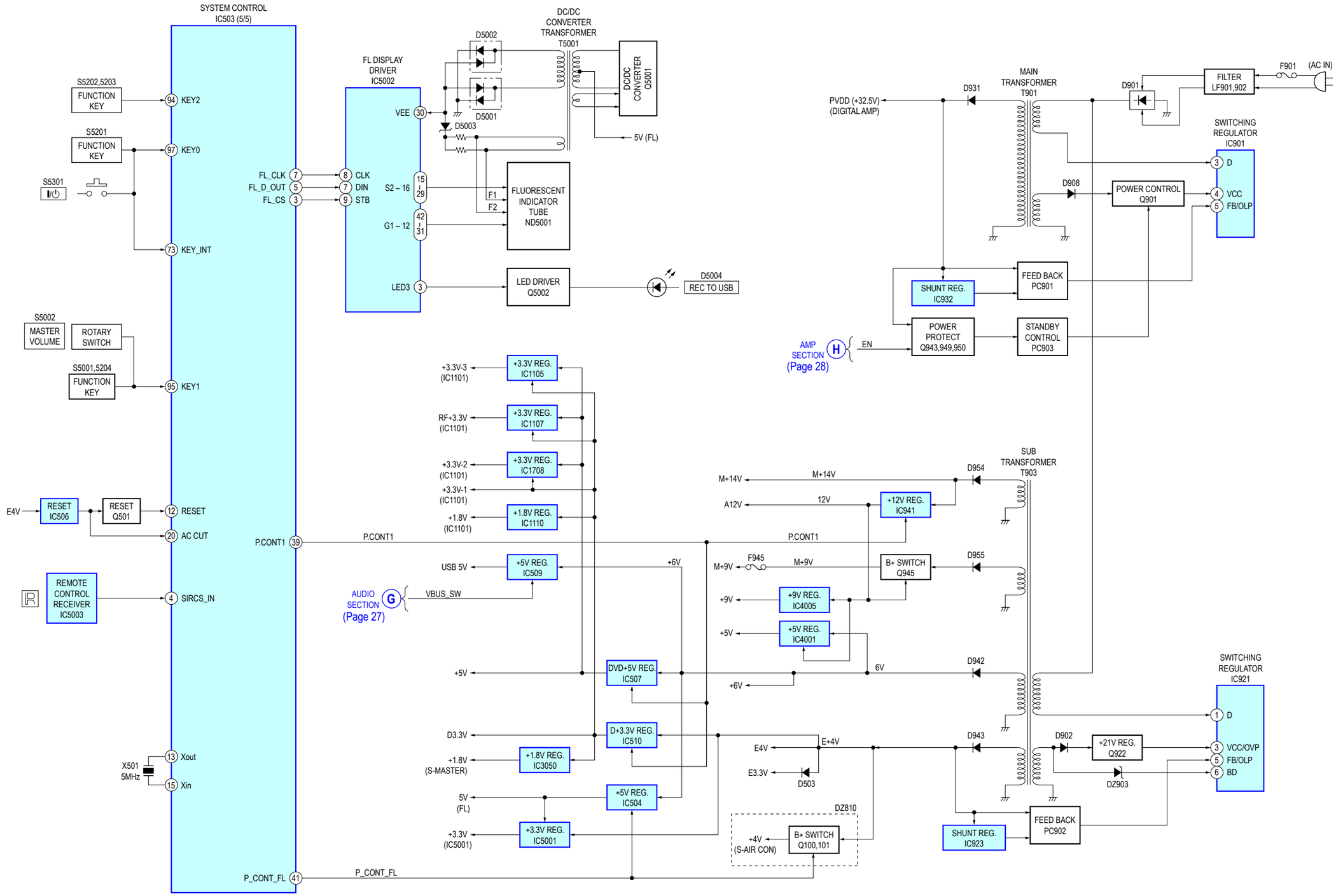


- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : TUNER
  - : MIC

5-4. BLOCK DIAGRAM – AMP Section –



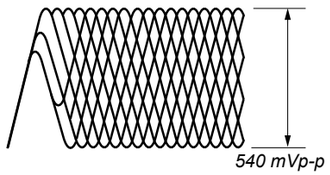
5-5. BLOCK DIAGRAM – POWER Section –



- **Waveforms**

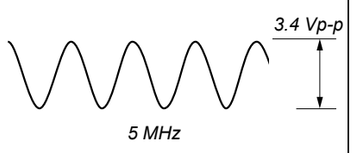
– MAIN Board –

① IC1101 ⑩ (DVDRFIP)



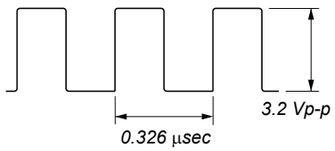
100 mV/DIV, 100 ns/DIV

⑦ IC503 ⑬ (Xout)



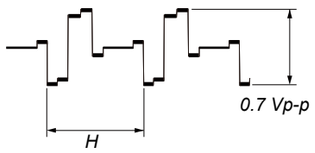
1 V/DIV, 100 ns/DIV

⑬ IC303 ⑧ (BCK)



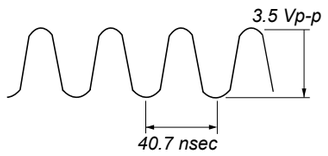
1 V/DIV, 0.1 µs/DIV

② IC1101 ⑱ (R/Cr/Pr)



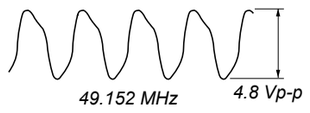
200 mV/DIV, 20 µs/DIV

⑧ IC304 ⑬ (CKOUT(O))



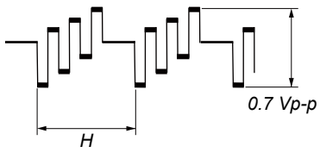
1 V/DIV, 20 ns/DIV

⑭ IC3051 ④ (Y)



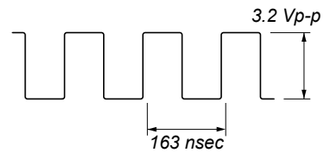
1 V/DIV, 10 ns/DIV

③ IC1101 ⑱ (B/Cb/Pb)



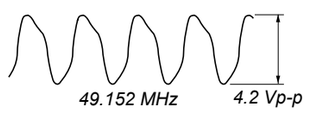
200 mV/DIV, 20 µs/DIV

⑨ IC304 ⑭ (BCK(O))



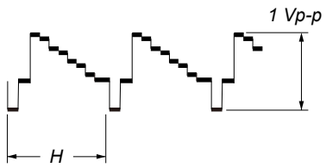
1 V/DIV, 50 ns/DIV

⑮ IC3020 ㊽ (XFSOIN)



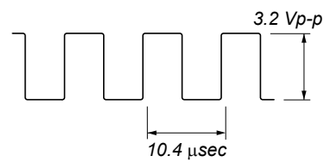
1 V/DIV, 10 ns/DIV

④ IC1101 ⑯⑤ (Y/G)



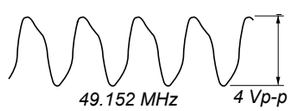
500 mV/DIV, 20 µs/DIV

⑩ IC304 ⑮ (LRCK(O))



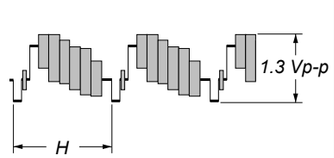
1 V/DIV, 5 µs/DIV

⑯ IC3020 ⑭ (XFSOOUT)



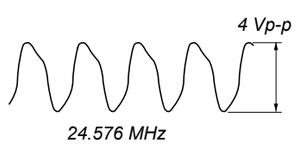
1 V/DIV, 10 ns/DIV

⑤ IC1101 ⑱⑦ (CVBS)



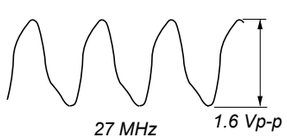
500 mV/DIV, 20 µs/DIV

⑪ IC304 ㉑ (XOUT(O))



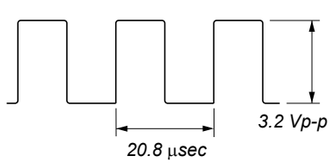
1 V/DIV, 20 ns/DIV

⑥ IC1101 ㉘ (XTALO)



500 mV/DIV, 20 ns/DIV

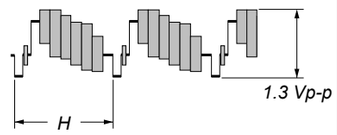
⑫ IC303 ⑦ (LRCK)



1 V/DIV, 10 µs/DIV

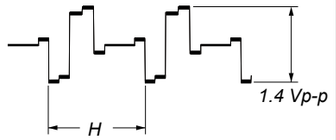
– IO Board –

① IC4000 ④ (CVBSin)



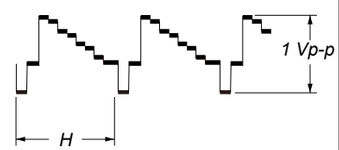
500 mV/DIV, 20 µs/DIV

⑤ IC4000 ⑯ (Crout)



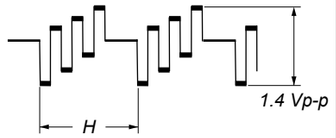
500 mV/DIV, 20 µs/DIV

② IC4000 ⑩ (CVin)



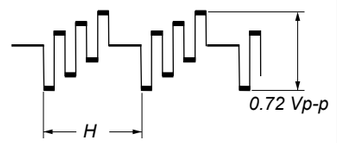
500 mV/DIV, 20 µs/DIV

⑥ IC4000 ⑱ (Cbout)



500 mV/DIV, 20 µs/DIV

③ IC4000 ⑫ (Cbin)

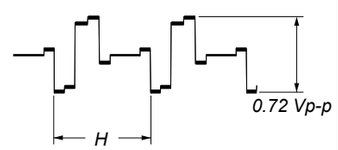


200 mV/DIV, 20 µs/DIV

⑦ IC4000 ⑳ (CYout)

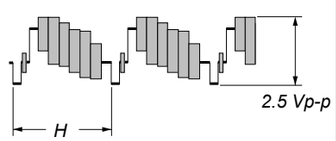
1 V/DIV, 20 µs/DIV

④ IC4000 ⑭ (Crin)



200 mV/DIV, 20 µs/DIV

⑧ IC4000 ㉓ (CVBSout)



1 V/DIV, 20 µs/DIV

5-6. PRINTED WIRING BOARD – MAIN Section (1/2) –

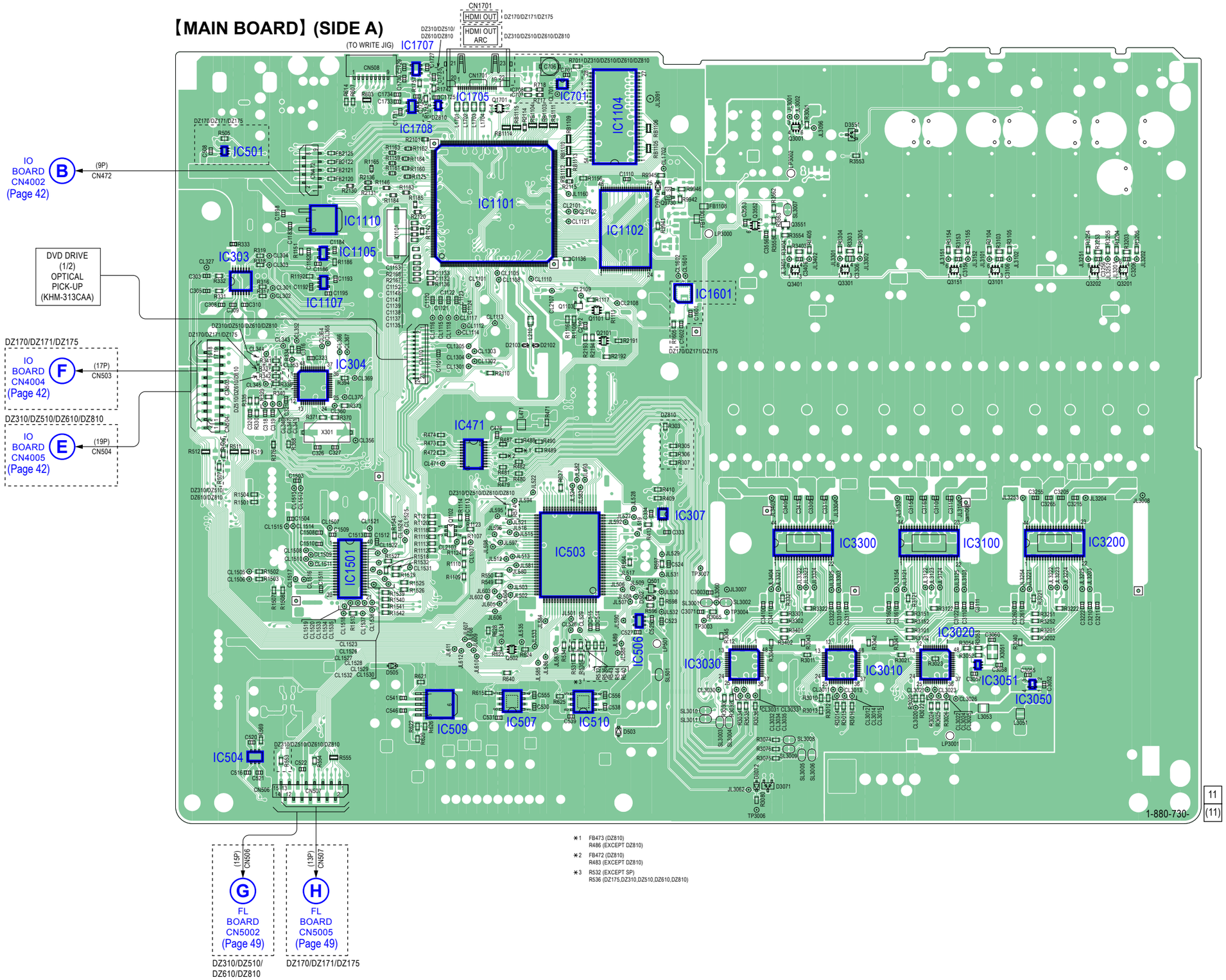
• See page 24 for Circuit Boards Location. • : Uses unleaded solder.

Note: When IC507 and IC1501 on the Main board are damaged, exchange the new Main board for the Main board which IC damaged.

14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J

【MAIN BOARD】(SIDE A)



∗1 FB473 (DZ810)
R486 (EXCEPT DZ810)

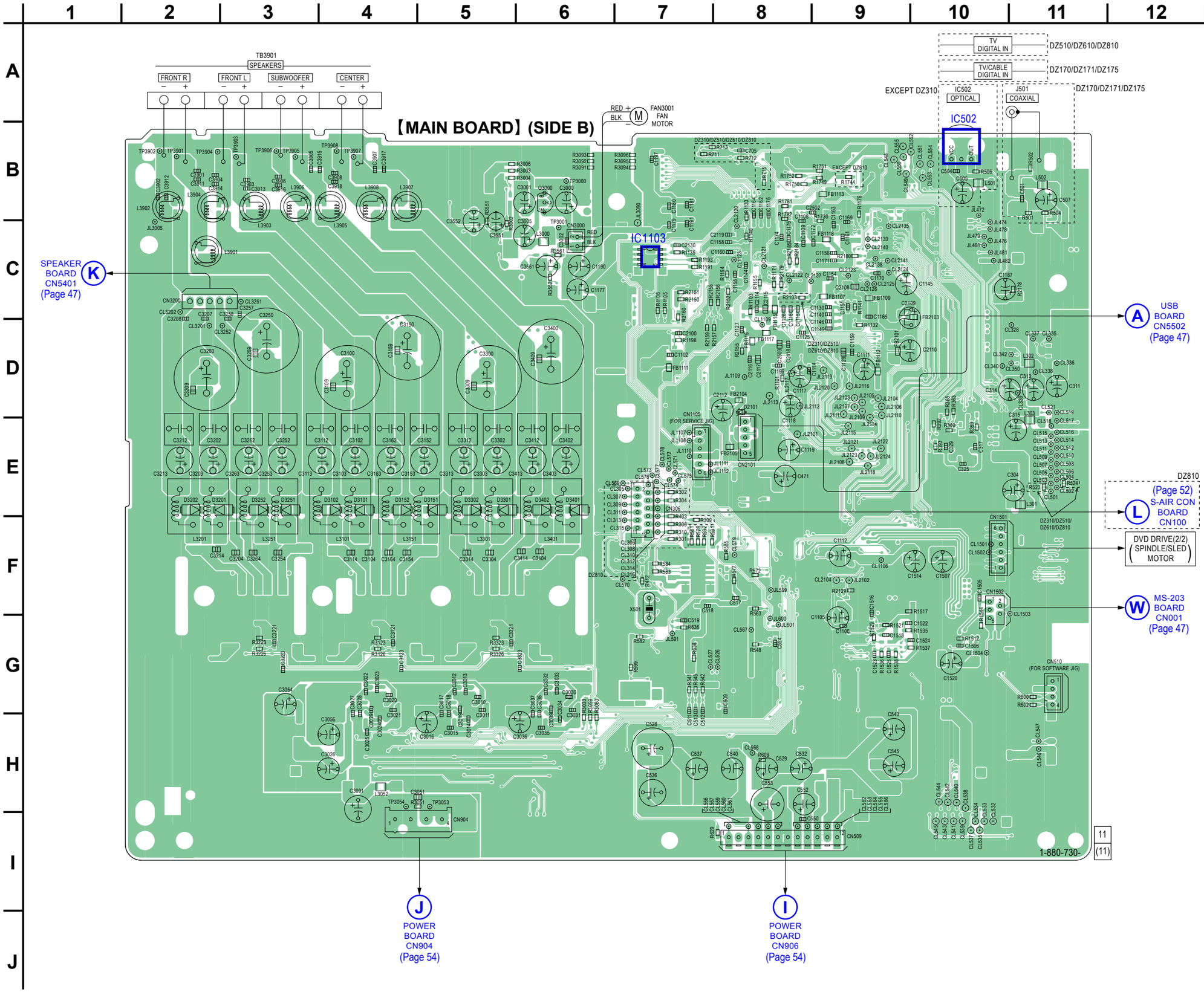
∗2 FB472 (DZ810)
R483 (EXCEPT DZ810)

∗3 R532 (EXCEPT SP)
R536 (DZ175,DZ310,DZ510,DZ610,DZ810)

5-7. PRINTED WIRING BOARD – MAIN Section (2/2) –

• See page 24 for Circuit Boards Location. • : Uses unleaded solder.

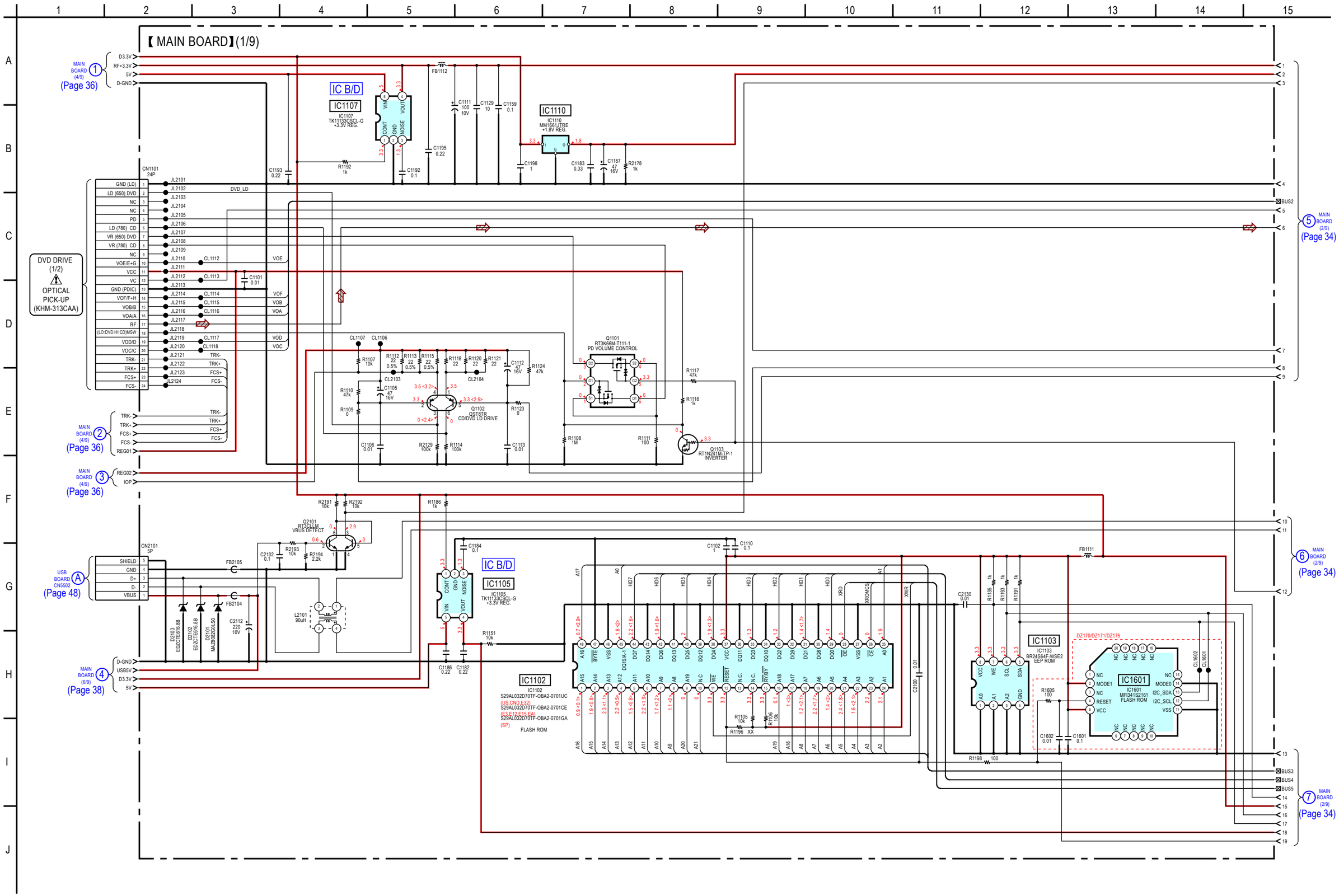
Note: When IC1103 on the Main board is damaged, exchange the new Main board for the Main board which IC damaged.



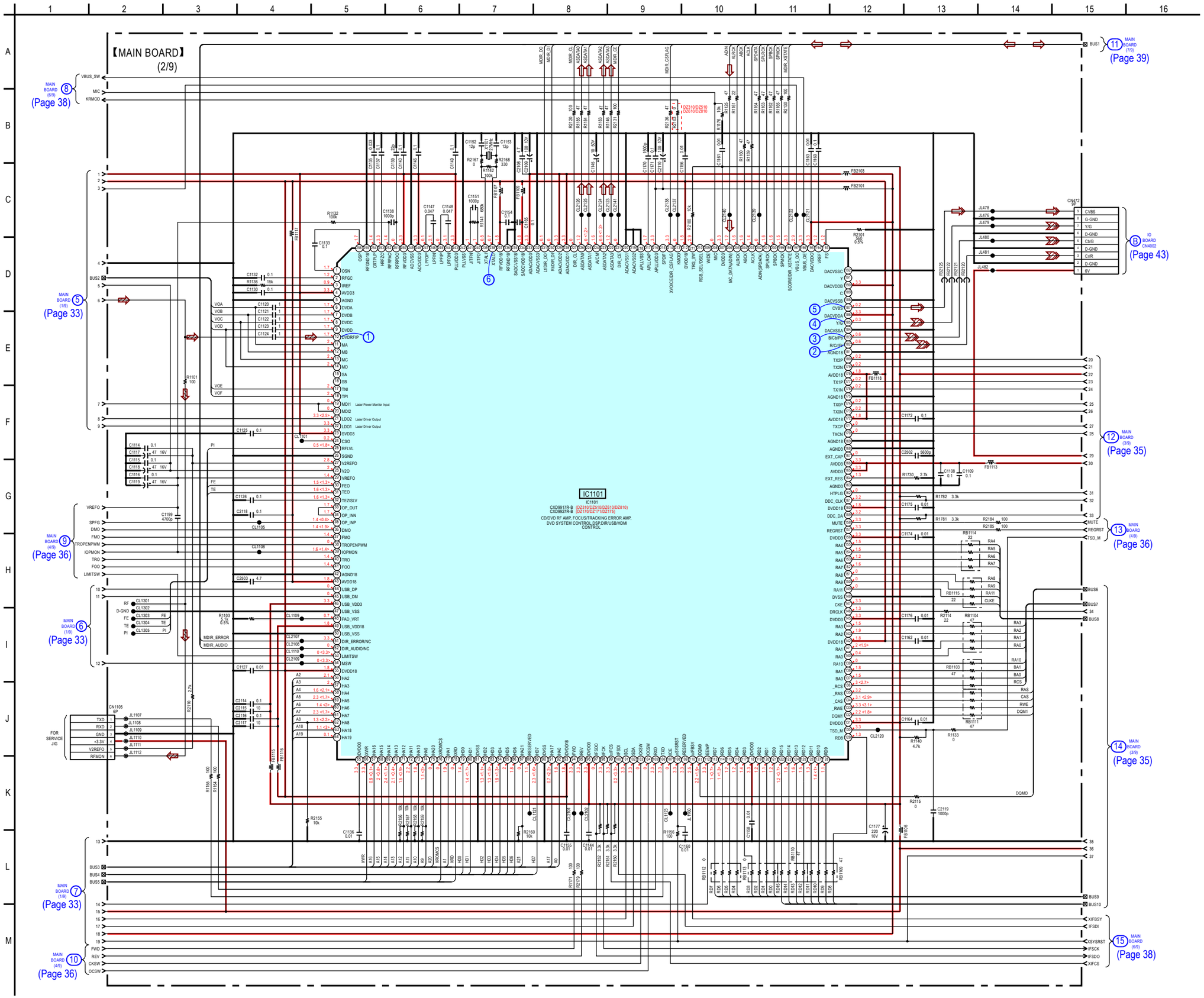
Note: When IC1103 on the Main board is damaged, exchange the new Main board for the Main board which IC damaged.

5-8. SCHEMATIC DIAGRAM – MAIN Section (1/9) –

• See page 56 for IC Block Diagrams.

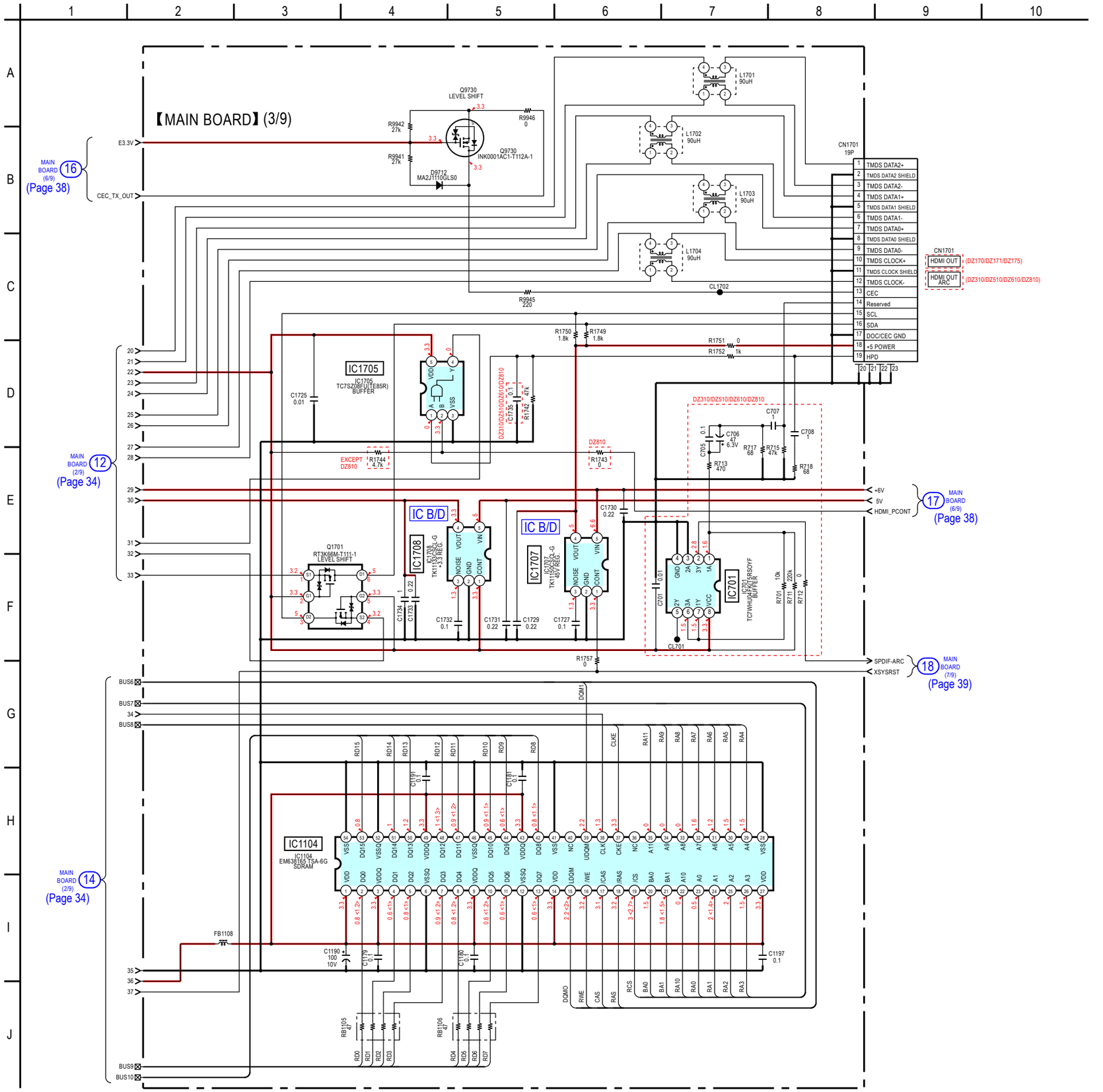


5-9. SCHEMATIC DIAGRAM – MAIN Section (2/9) – • See page 30 for waveforms. • See page 63 for IC Pin Function Description of IC1101.



5-10. SCHEMATIC DIAGRAM – MAIN Section (3/9) –

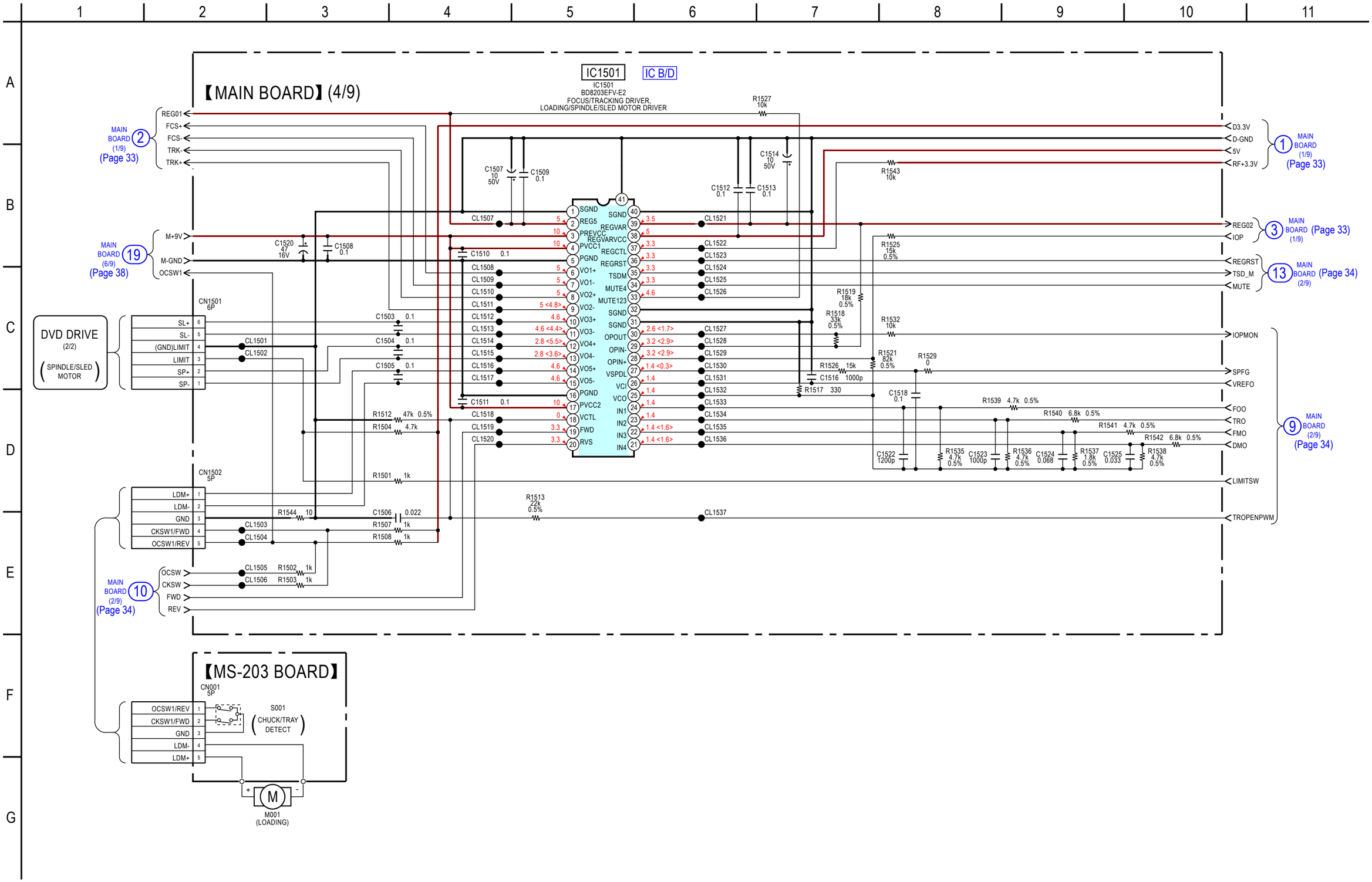
• See page 56 for IC Block Diagrams.



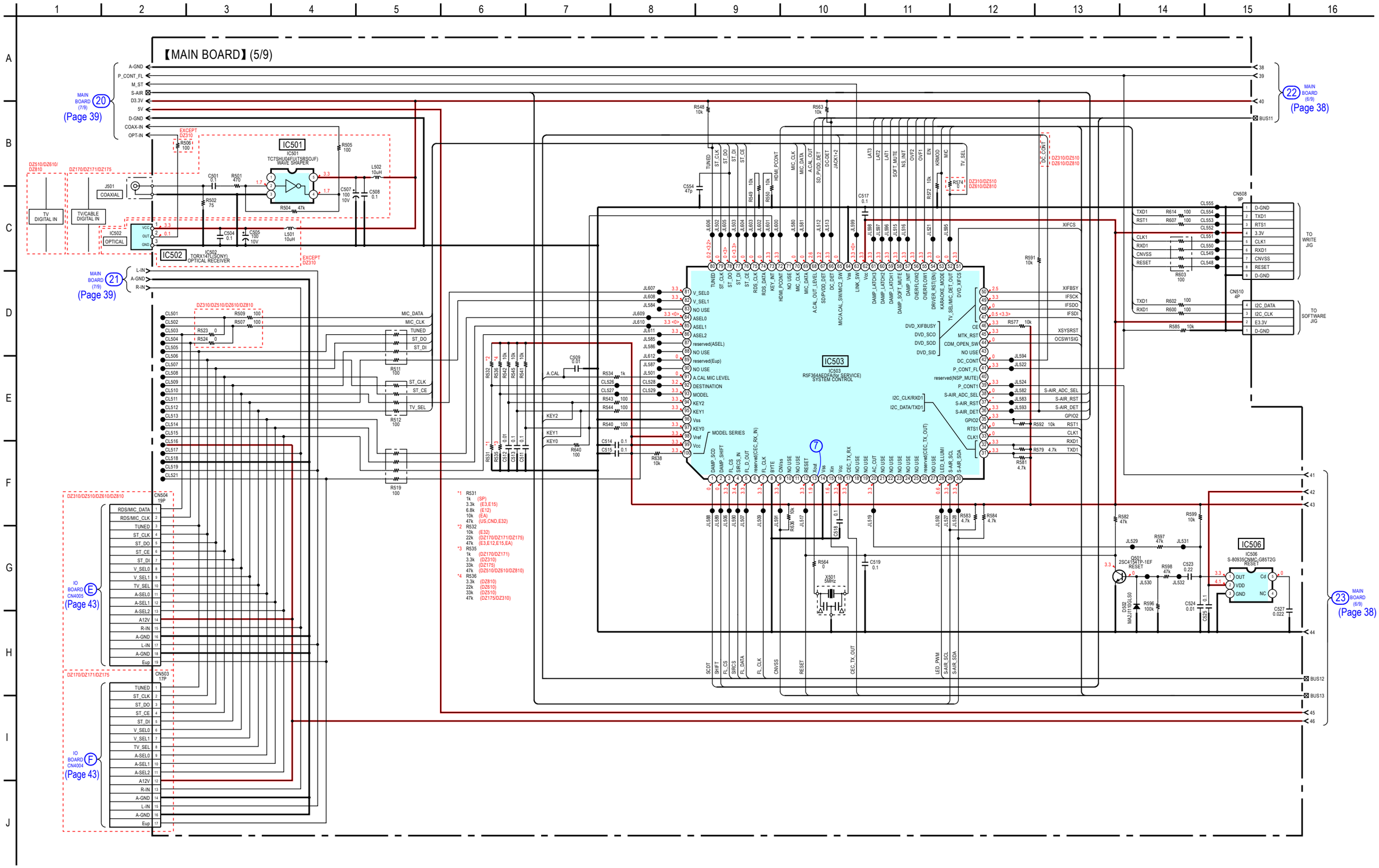
5-11. SCHEMATIC DIAGRAM – MAIN Section (4/9) –

• See page 56 for IC Block Diagram.

Note: When IC1501 on the Main board is damaged, exchange the new Main board for the Main board which IC damaged.



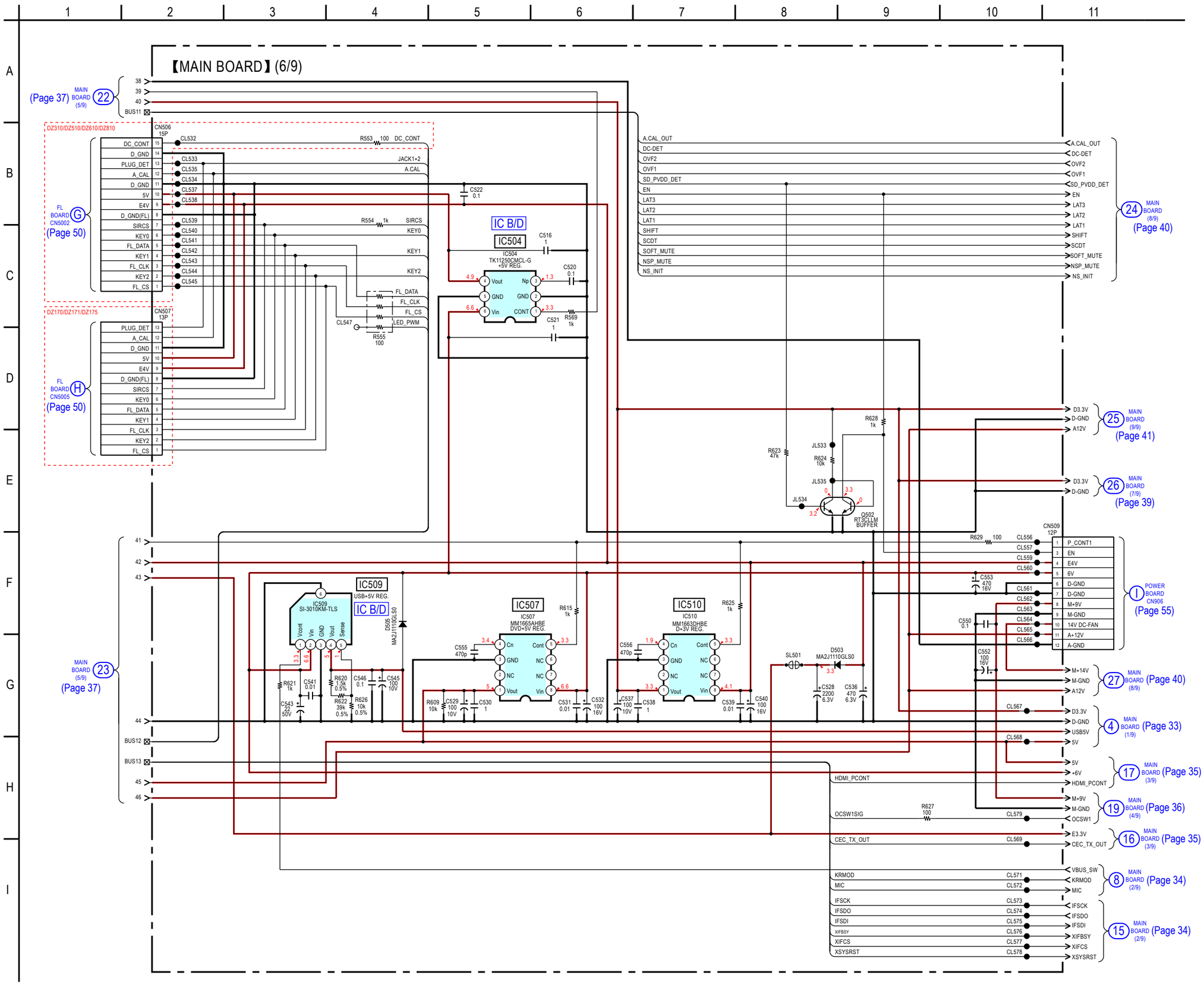
5-12. SCHEMATIC DIAGRAM – MAIN Section (5/9) – • See page 30 for waveform. • See page 67 for IC Pin Function Description of IC503.



Note: When IC507 on the Main board is damaged, exchange the new Main board for the Main board which IC damaged.

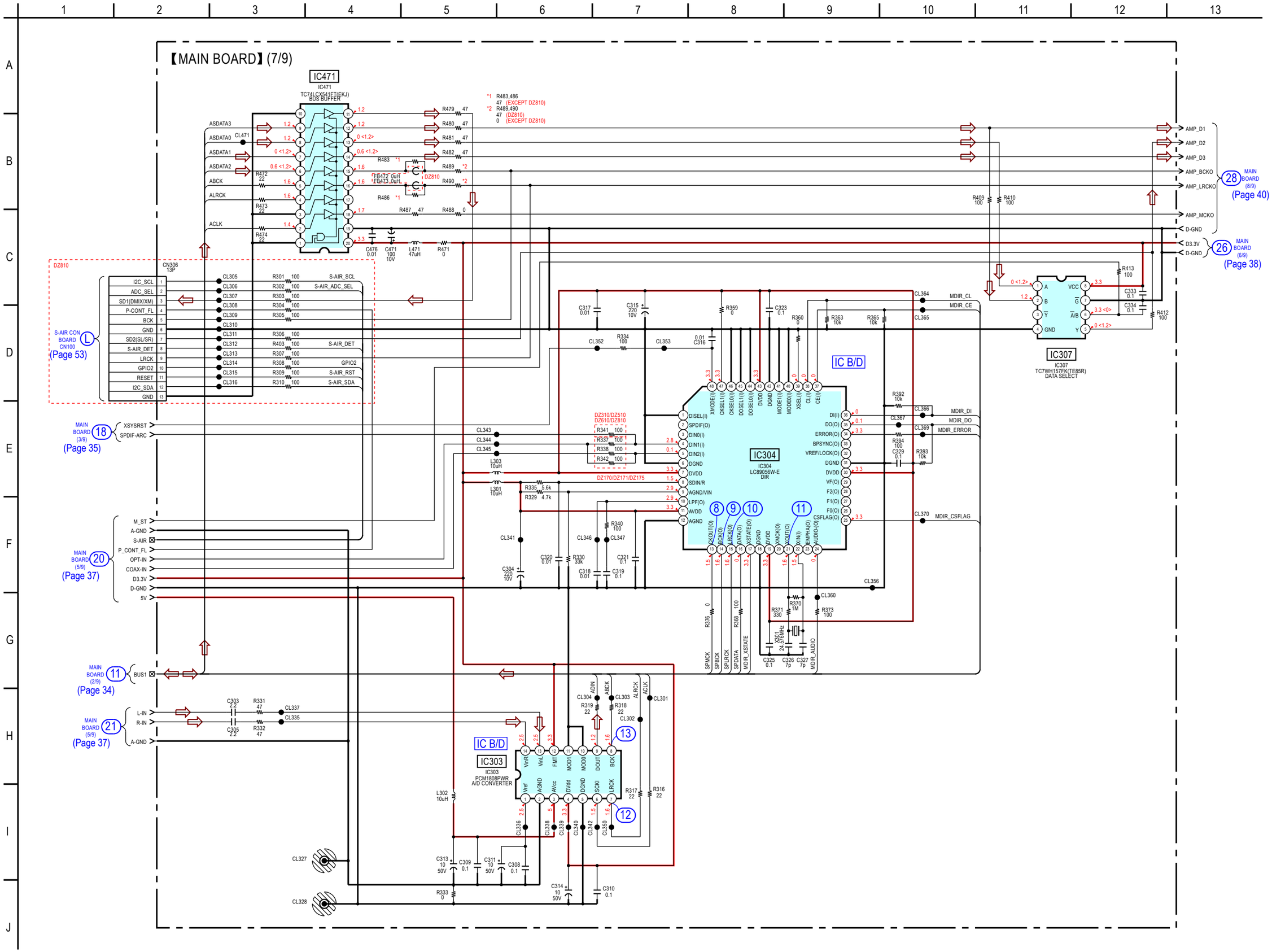
5-13. SCHEMATIC DIAGRAM – MAIN Section (6/9) –

• See page 56 for IC Block Diagrams.

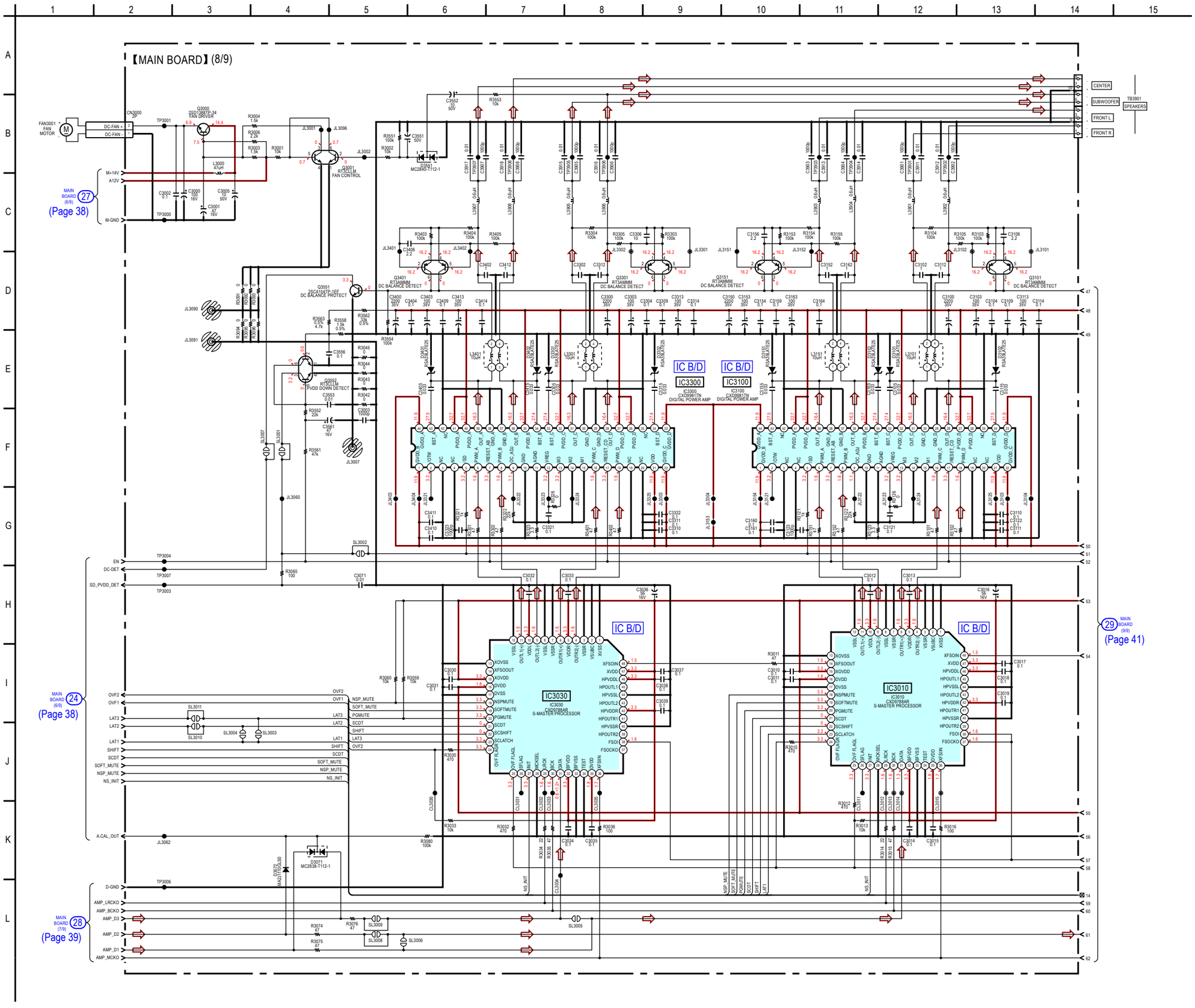


5-14. SCHEMATIC DIAGRAM – MAIN Section (7/9) –

• See page 30 for waveforms. • See page 57 for IC Block Diagrams.

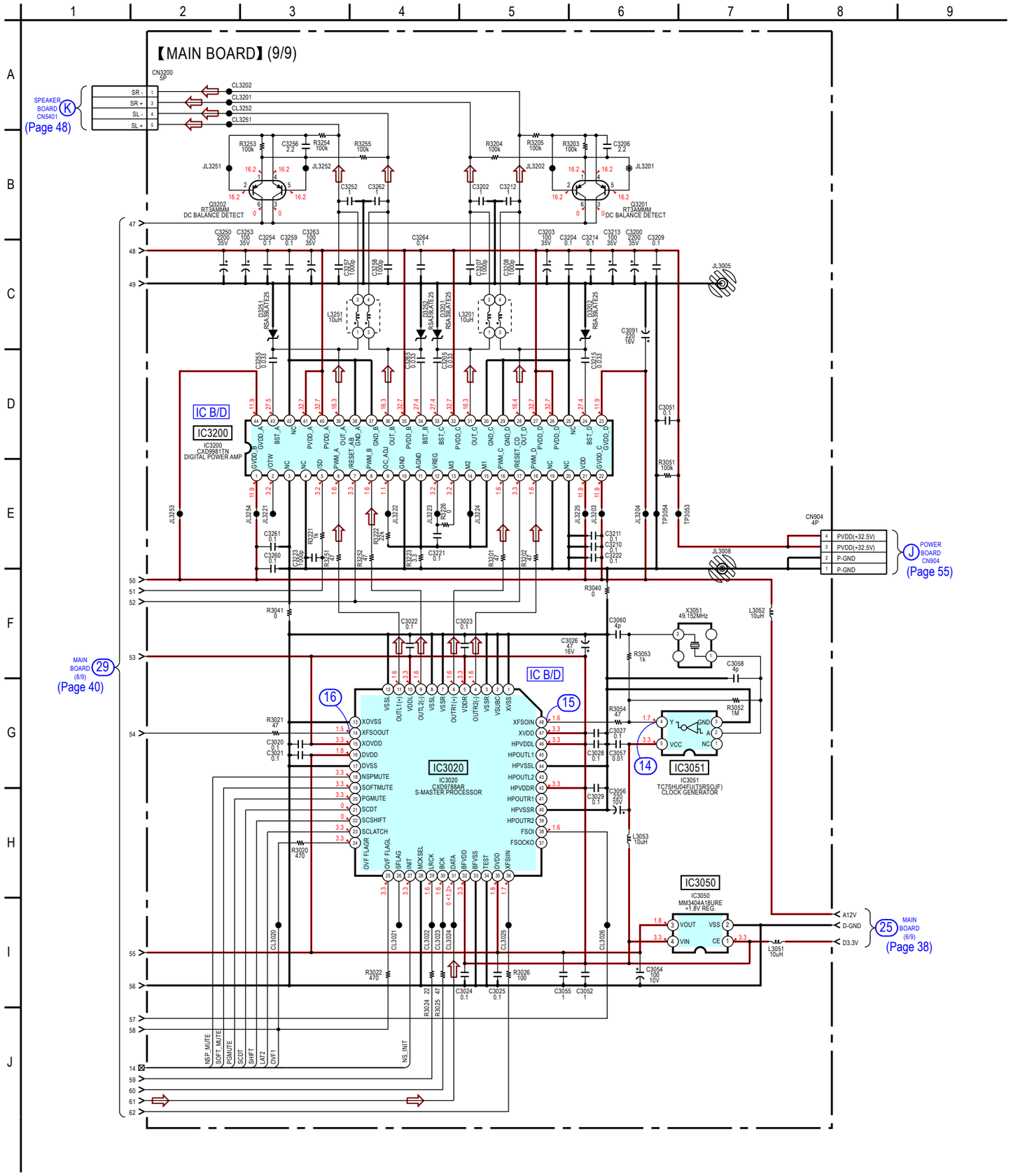


5-15. SCHEMATIC DIAGRAM – MAIN Section (8/9) – • See page 58, 59 for IC Block Diagrams.



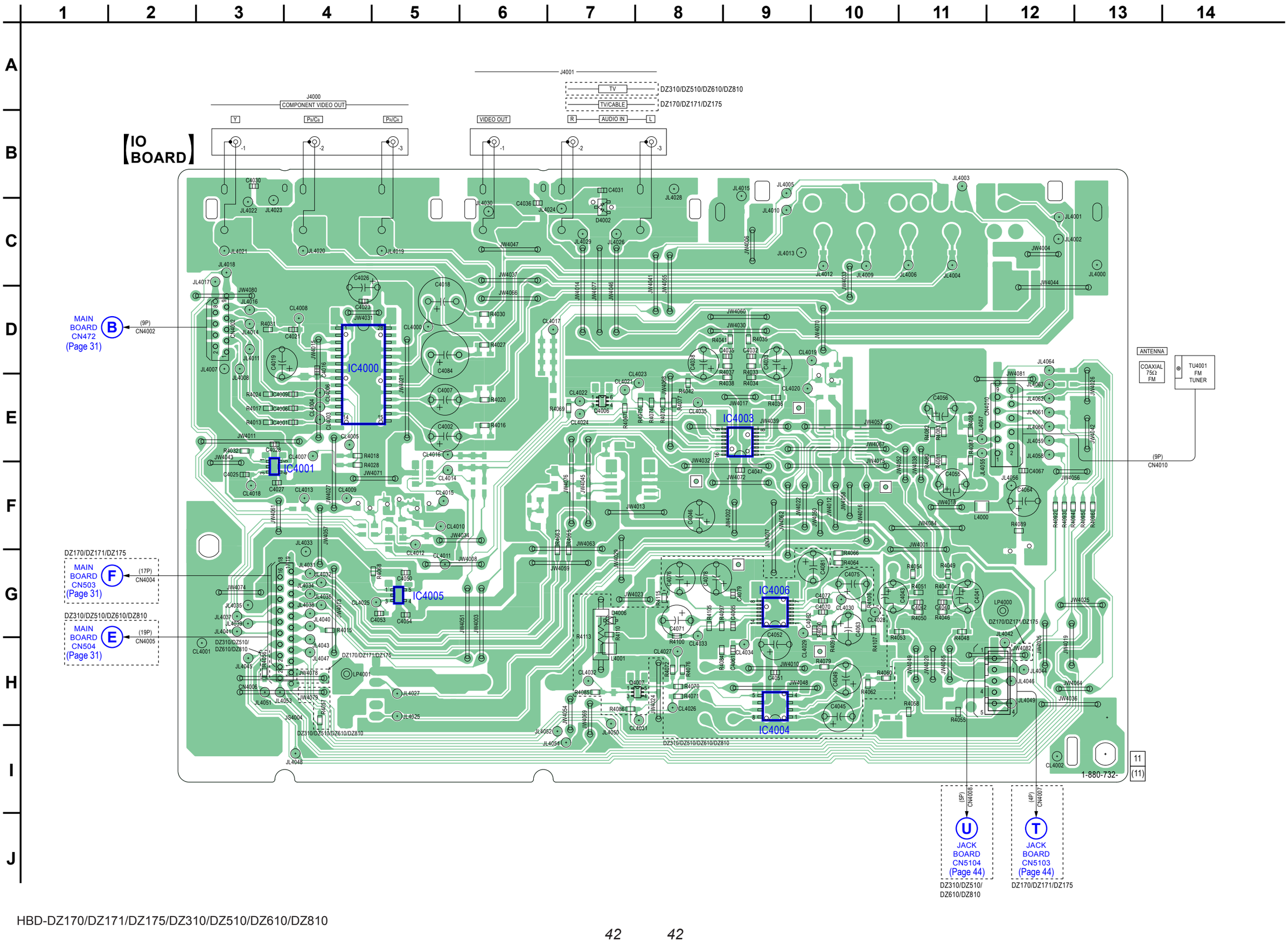
5-16. SCHEMATIC DIAGRAM – MAIN Section (9/9) –

• See page 30 for waveforms. • See page 58, 59 for IC Block Diagrams.



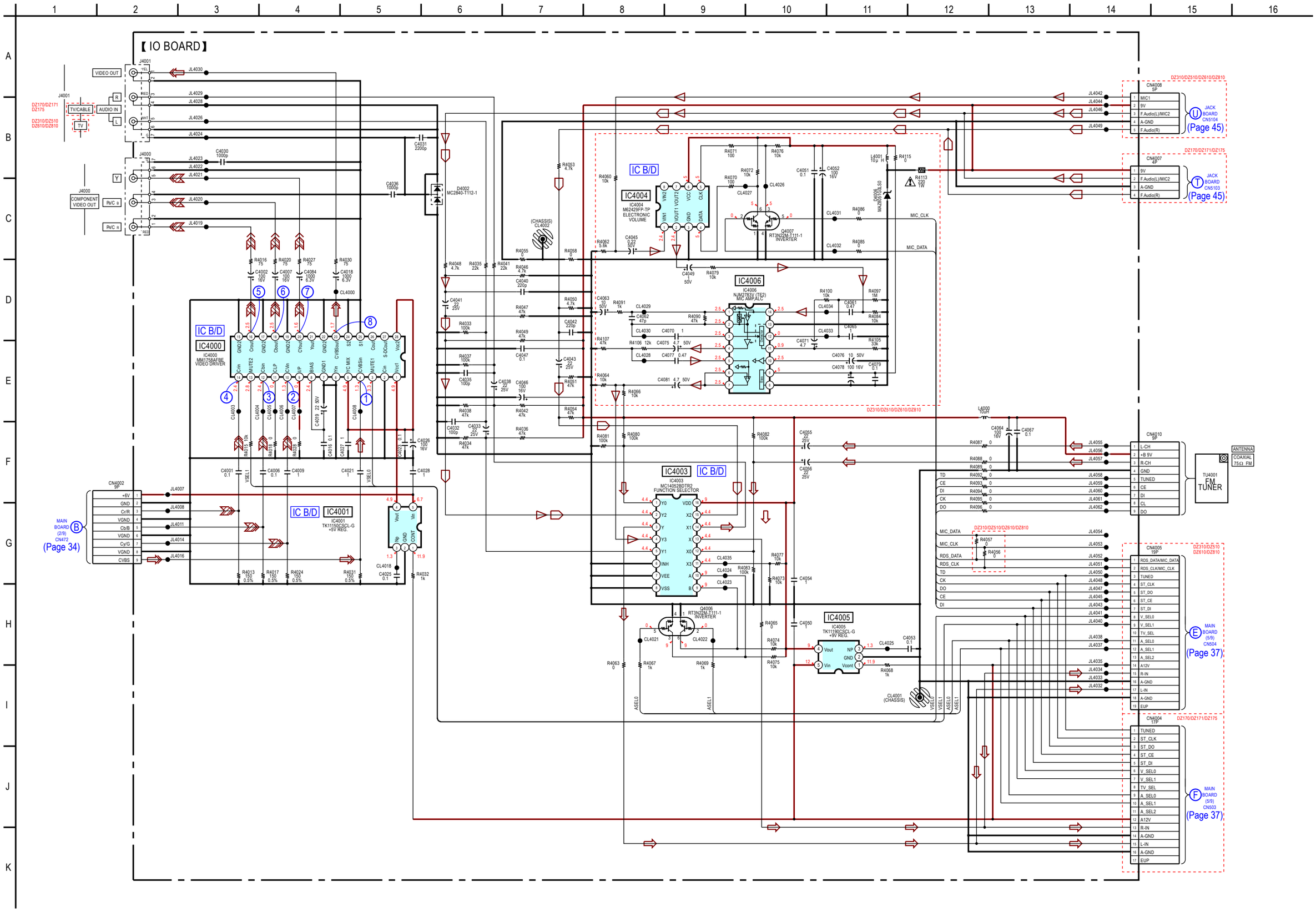
5-17. PRINTED WIRING BOARD – IO Section –

• See page 24 for Circuit Boards Location. • : Uses unleaded solder.



5-18. SCHEMATIC DIAGRAM – IO Section –

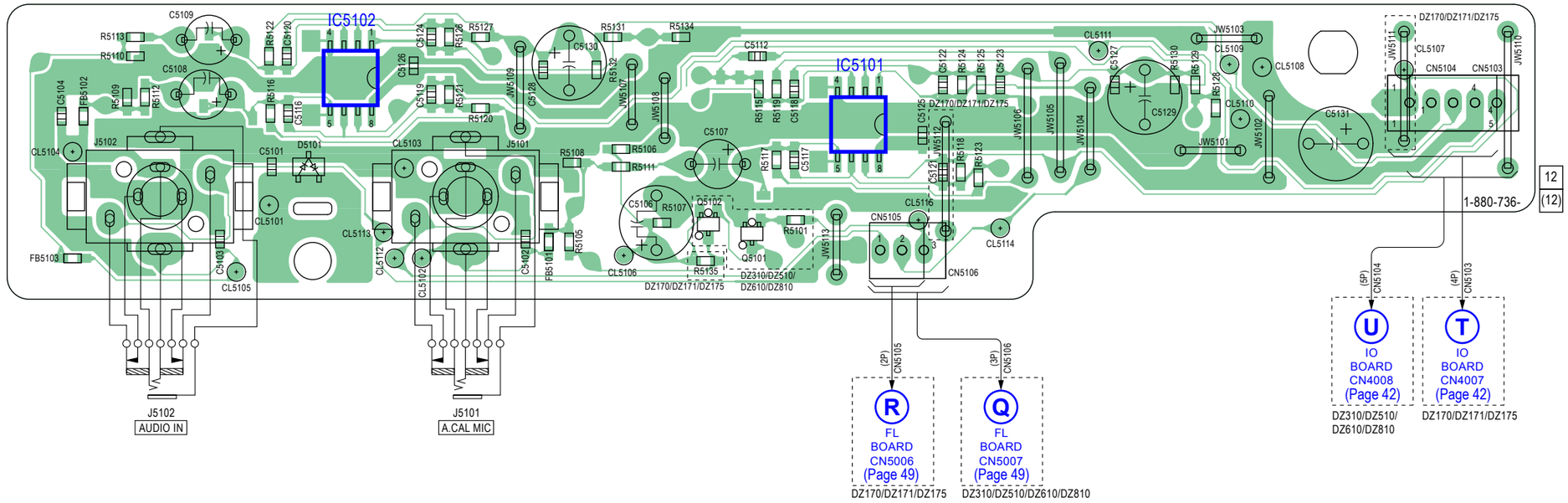
• See page 30 for waveforms. • See page 56, 60, 61 for IC Block Diagrams.

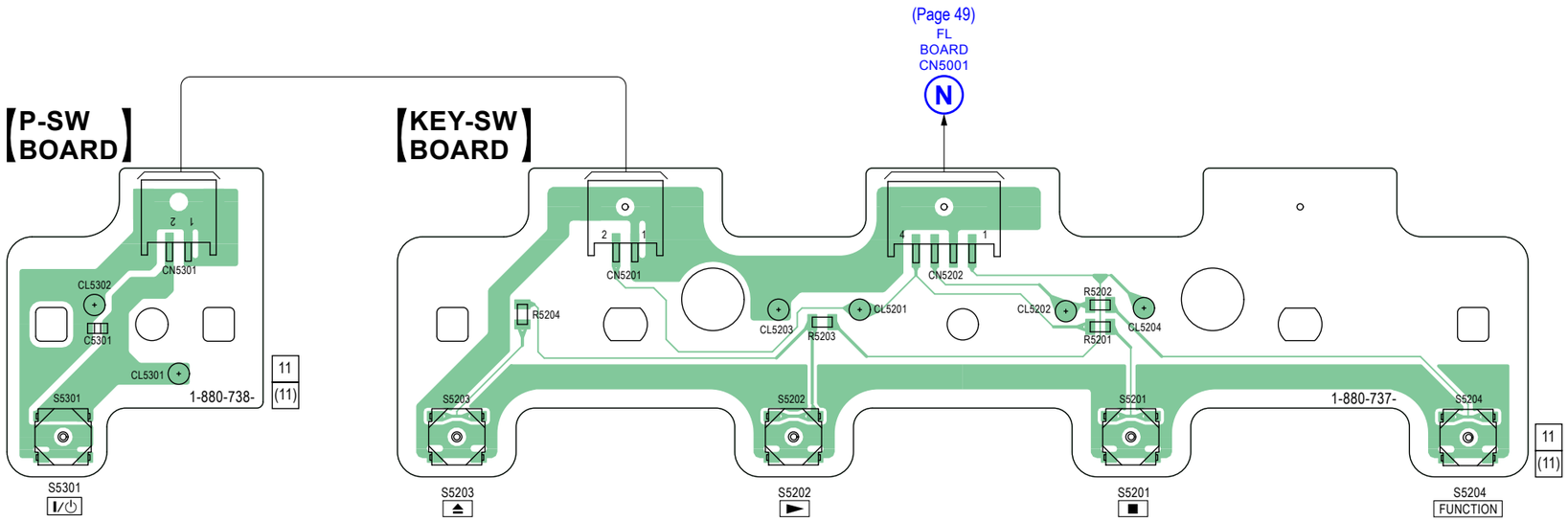


5-19. PRINTED WIRING BOARDS – JACK, KEY-SW, P-SW Section –

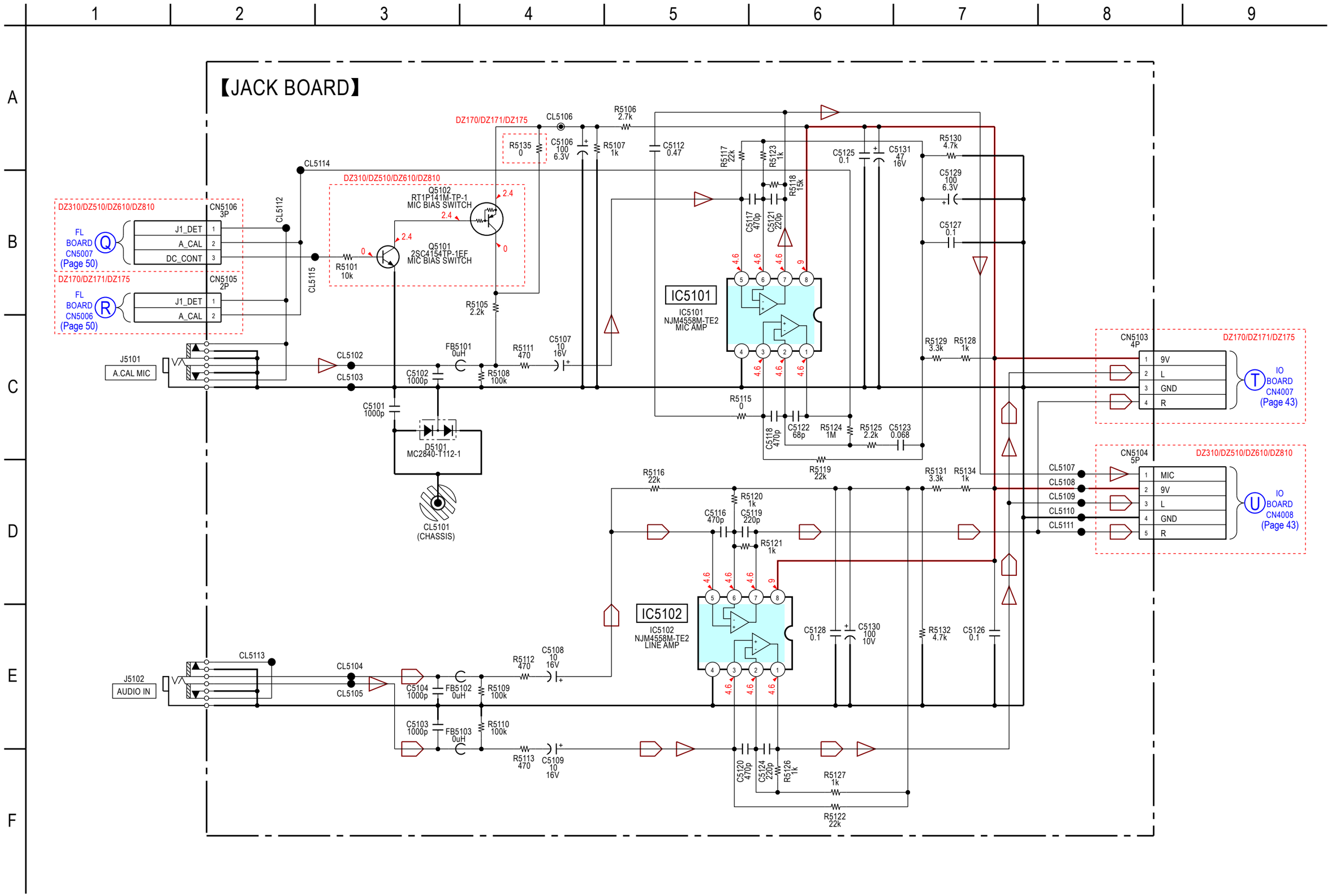
• See page 24 for Circuit Boards Location. • : Uses unleaded solder.

【JACK BOARD】

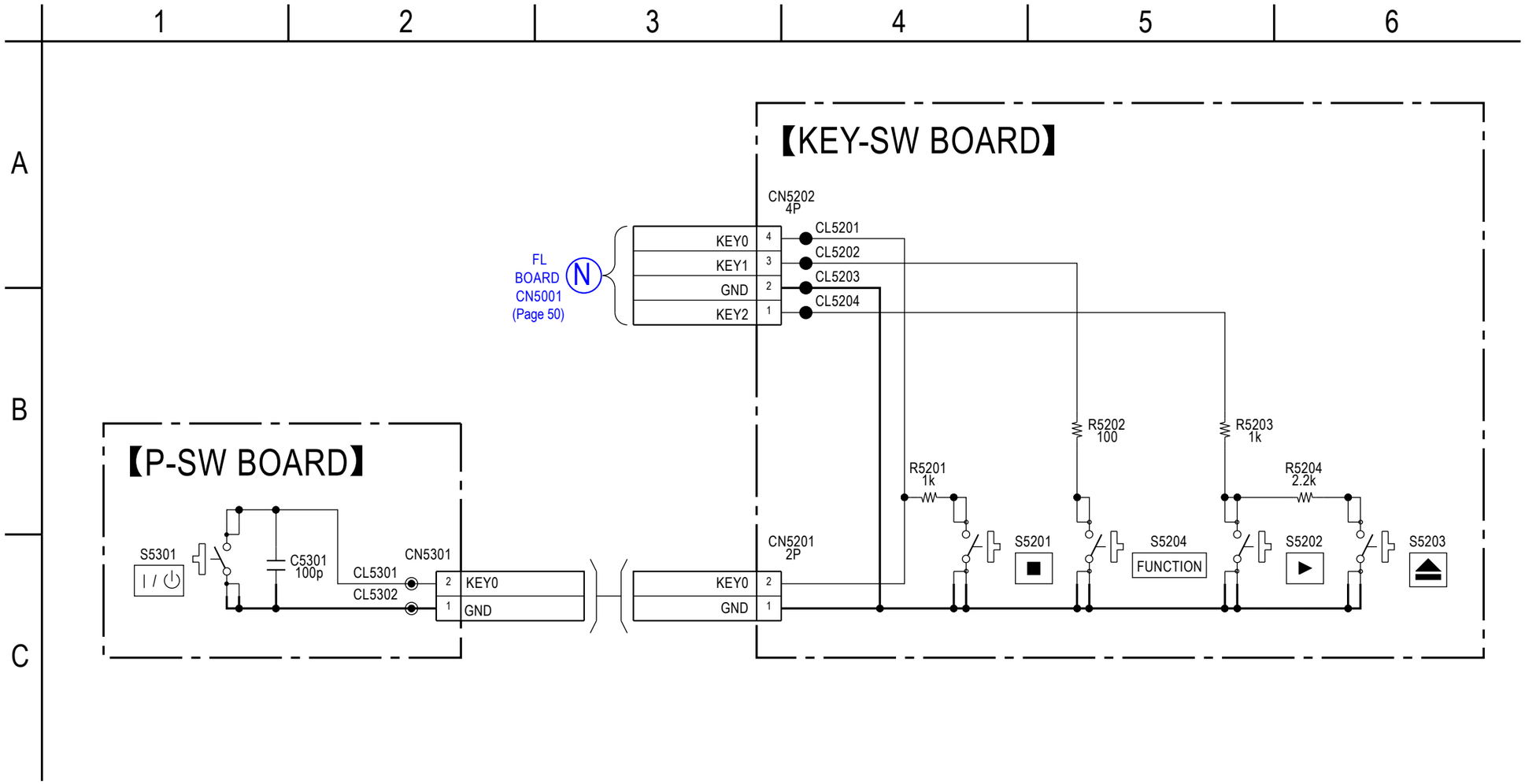




5-20. SCHEMATIC DIAGRAM – JACK Section –

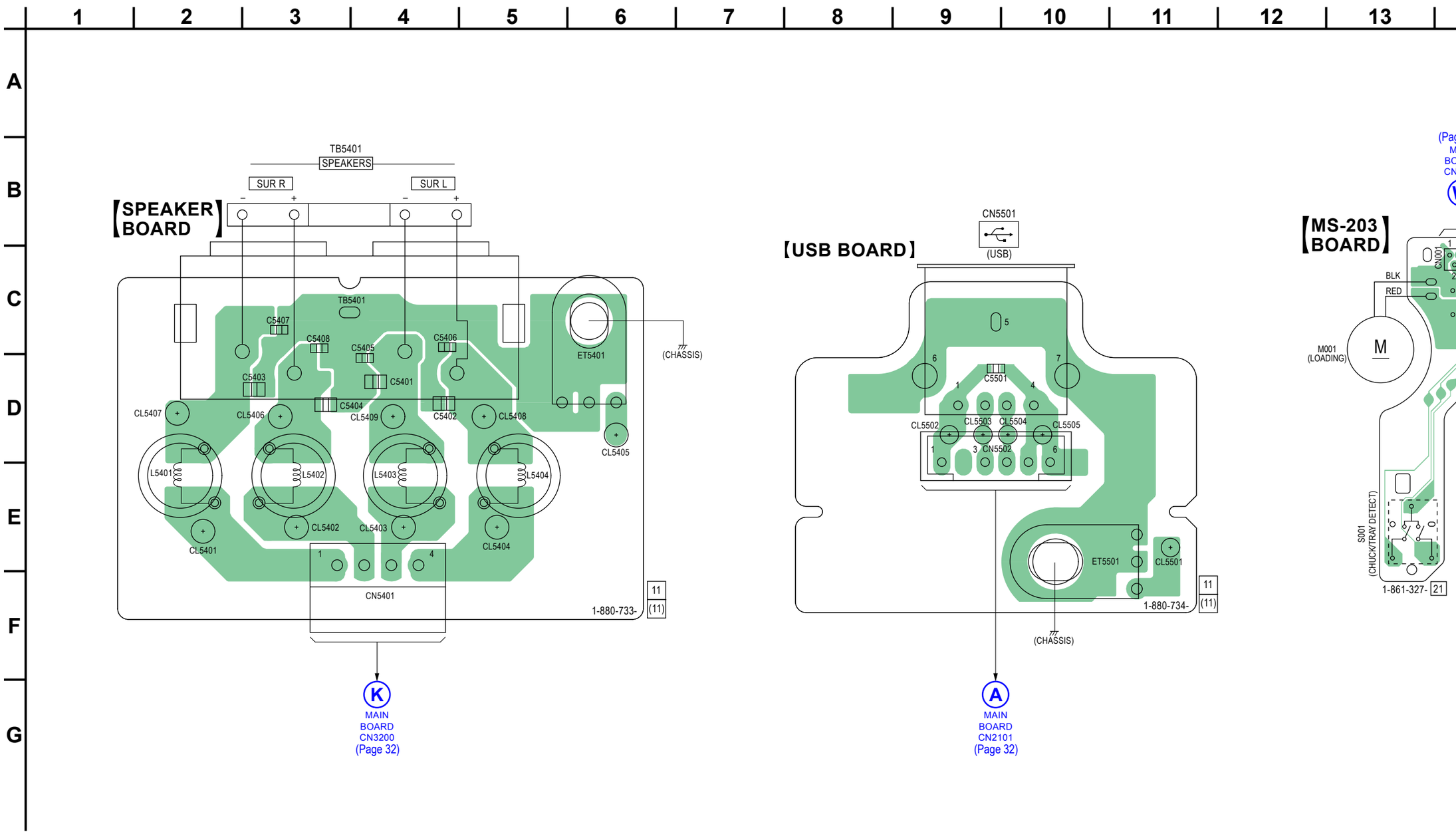


5-21. SCHEMATIC DIAGRAM – KEY-SW, P-SW Section –

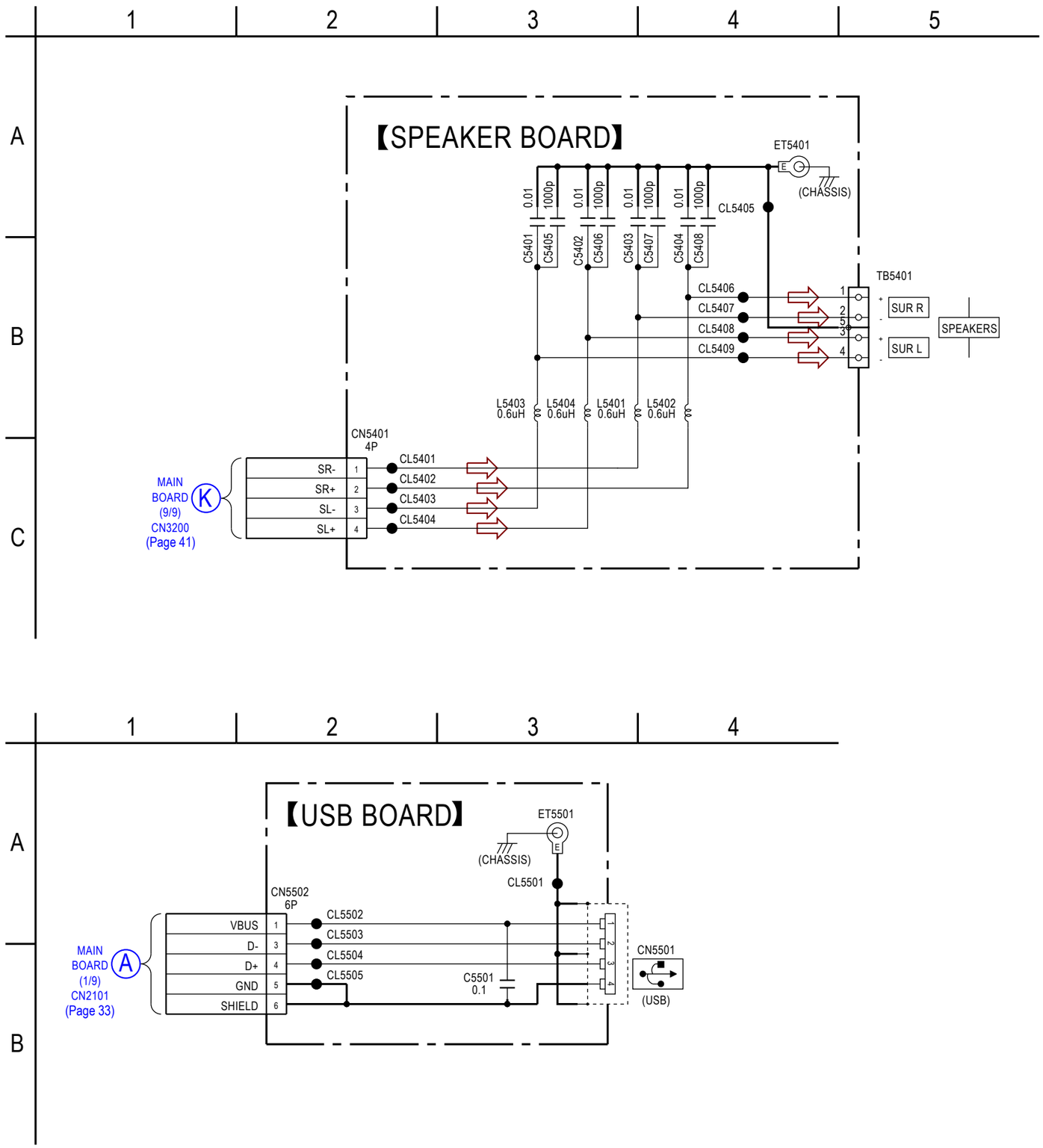


5-22. PRINTED WIRING BOARDS – SPEAKER, USB, MS-203 Section –

• See page 24 for Circuit Boards Location. • : Uses unleaded solder.



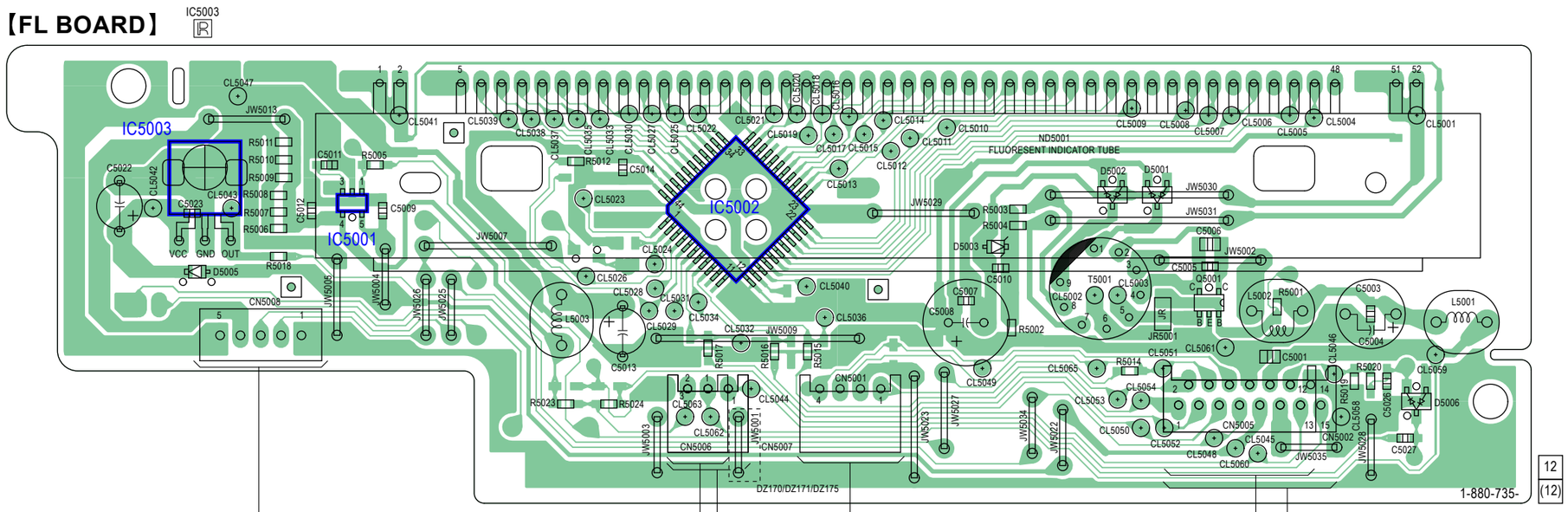
5-23. SCHEMATIC DIAGRAM – SPEAKER, USB Section –



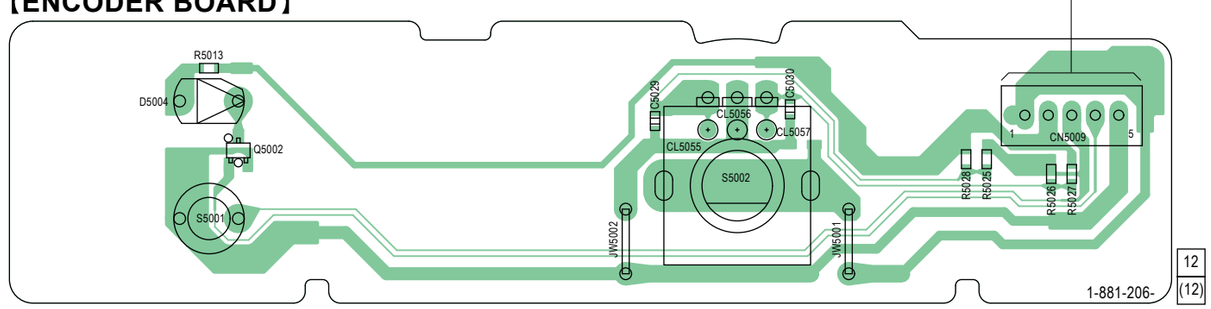
5-24. PRINTED WIRING BOARDS – FL, ENCODER Section –

• See page 24 for Circuit Boards Location. • : Uses unleaded solder.

【FL BOARD】



【ENCODER BOARD】

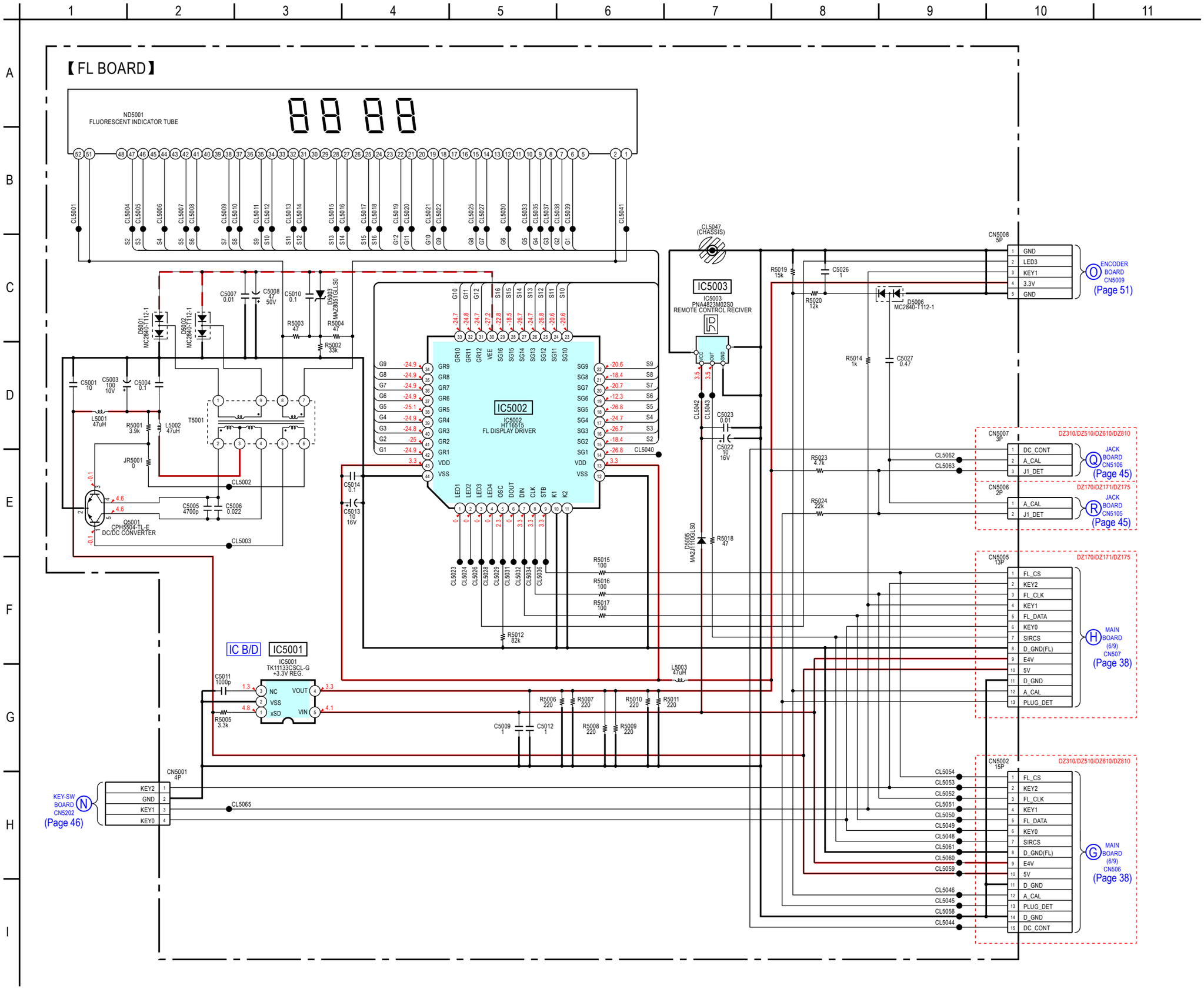


D5004,S5001
REC TO USB

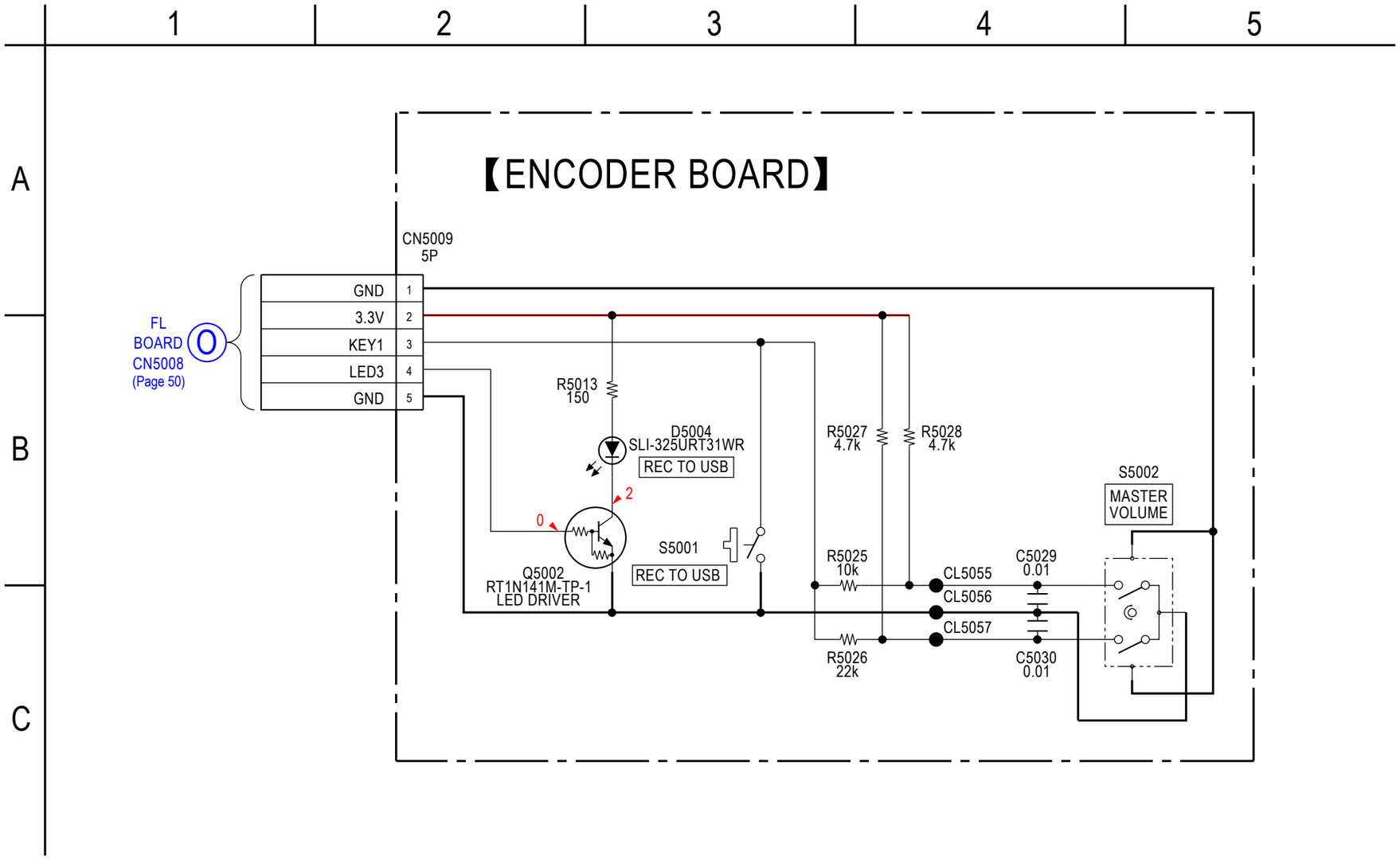
S5002
MASTER VOLUME

5-25. SCHEMATIC DIAGRAM – FL Section –

• See page 56 for IC Block Diagrams.

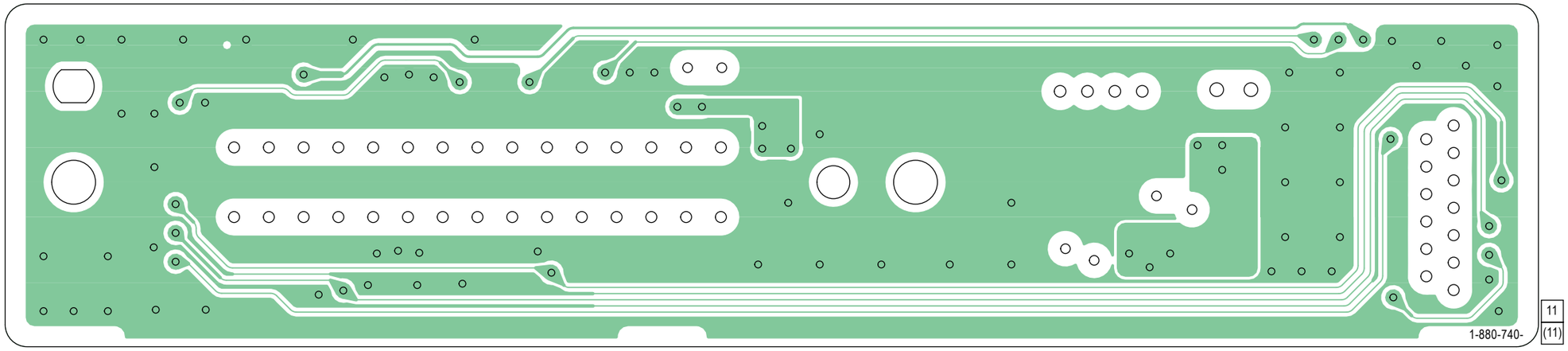


5-26. SCHEMATIC DIAGRAM – ENCODER Section –

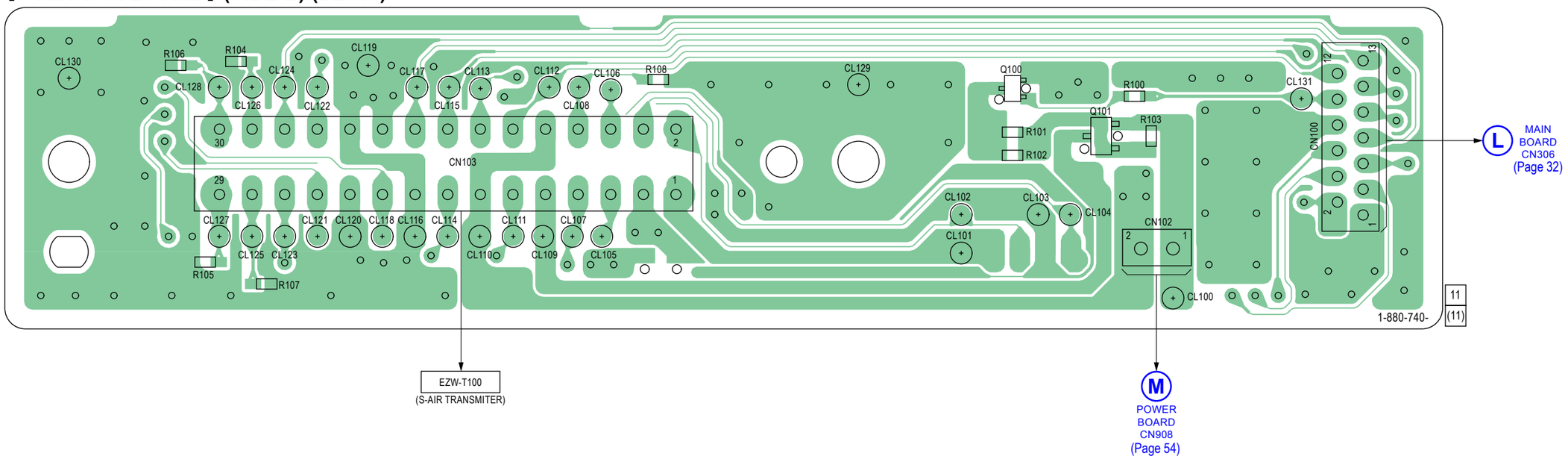


5-27. PRINTED WIRING BOARD – S-AIR CON Section – • See page 24 for Circuit Boards Location. • : Uses unleaded solder.

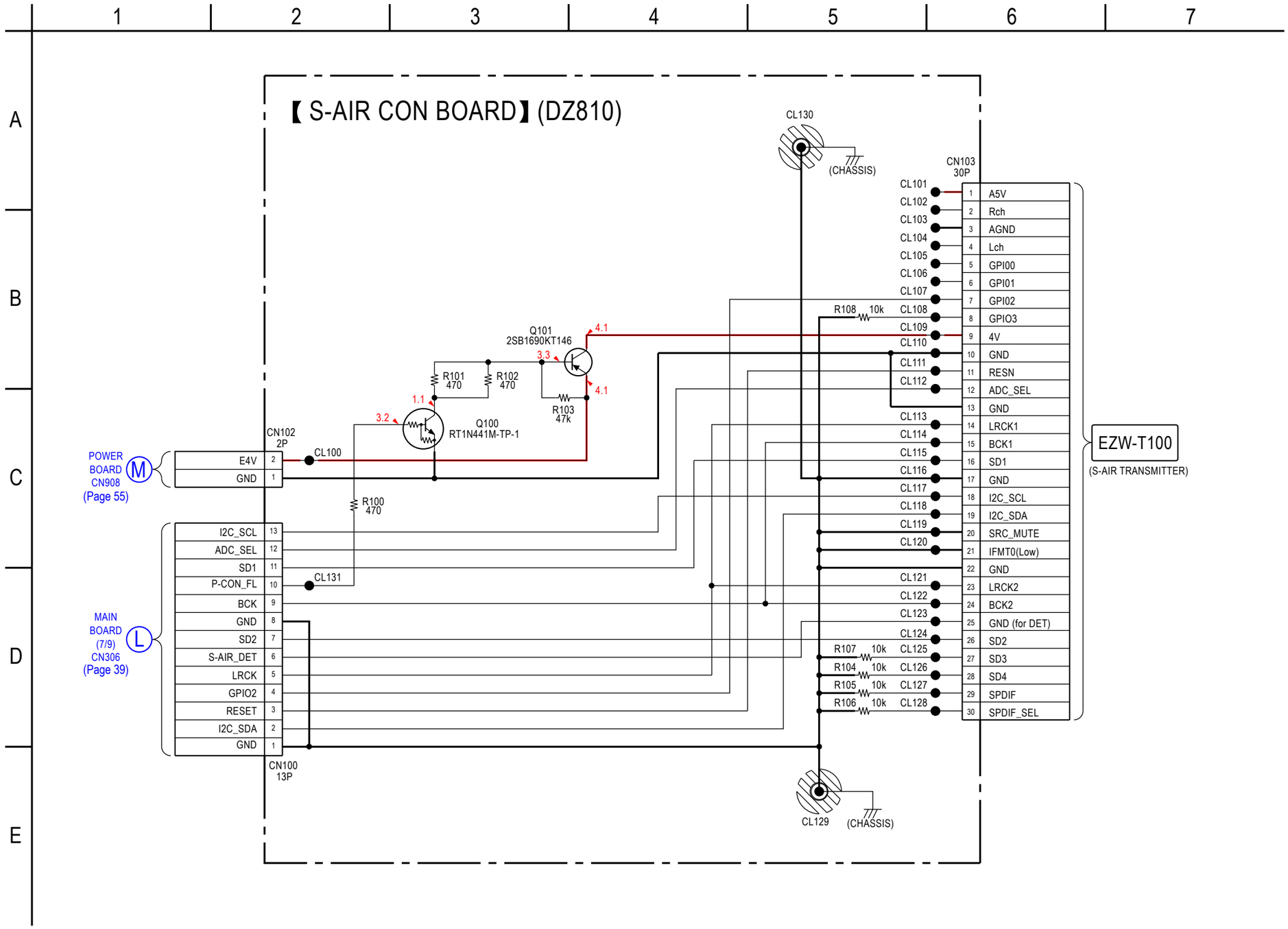
【S-AIR CON BOARD】(SIDE A) (DZ810)



【S-AIR CON BOARD】(SIDE B) (DZ810)



5-28. SCHEMATIC DIAGRAM – S-AIR CON Section –

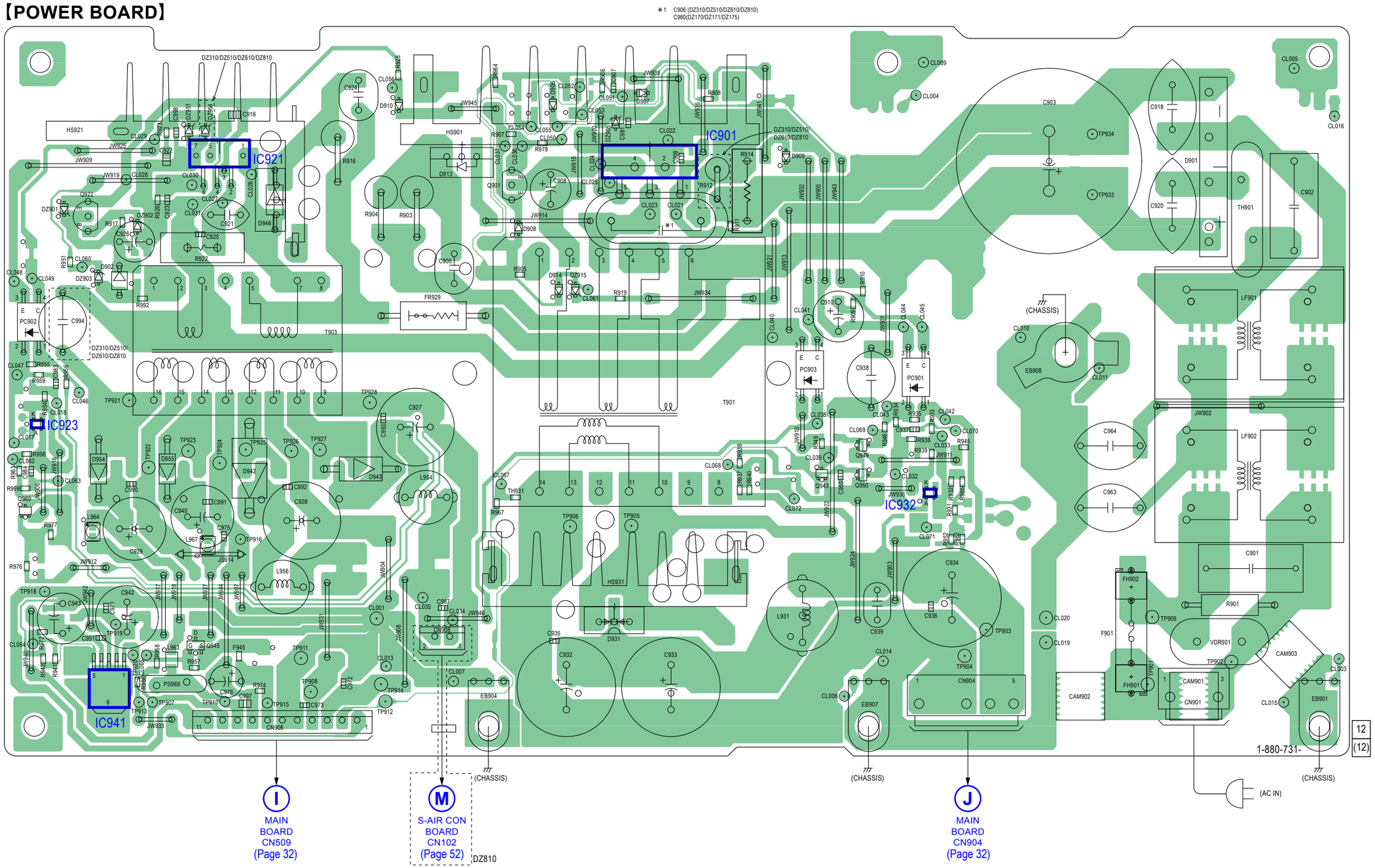


5-29. PRINTED WIRING BOARD – POWER Section –

• See page 24 for Circuit Boards Location. • : Uses unleaded solder.

Note: When IC921 on the Power board is damaged, exchange the new Power board for the Power board which IC damaged.

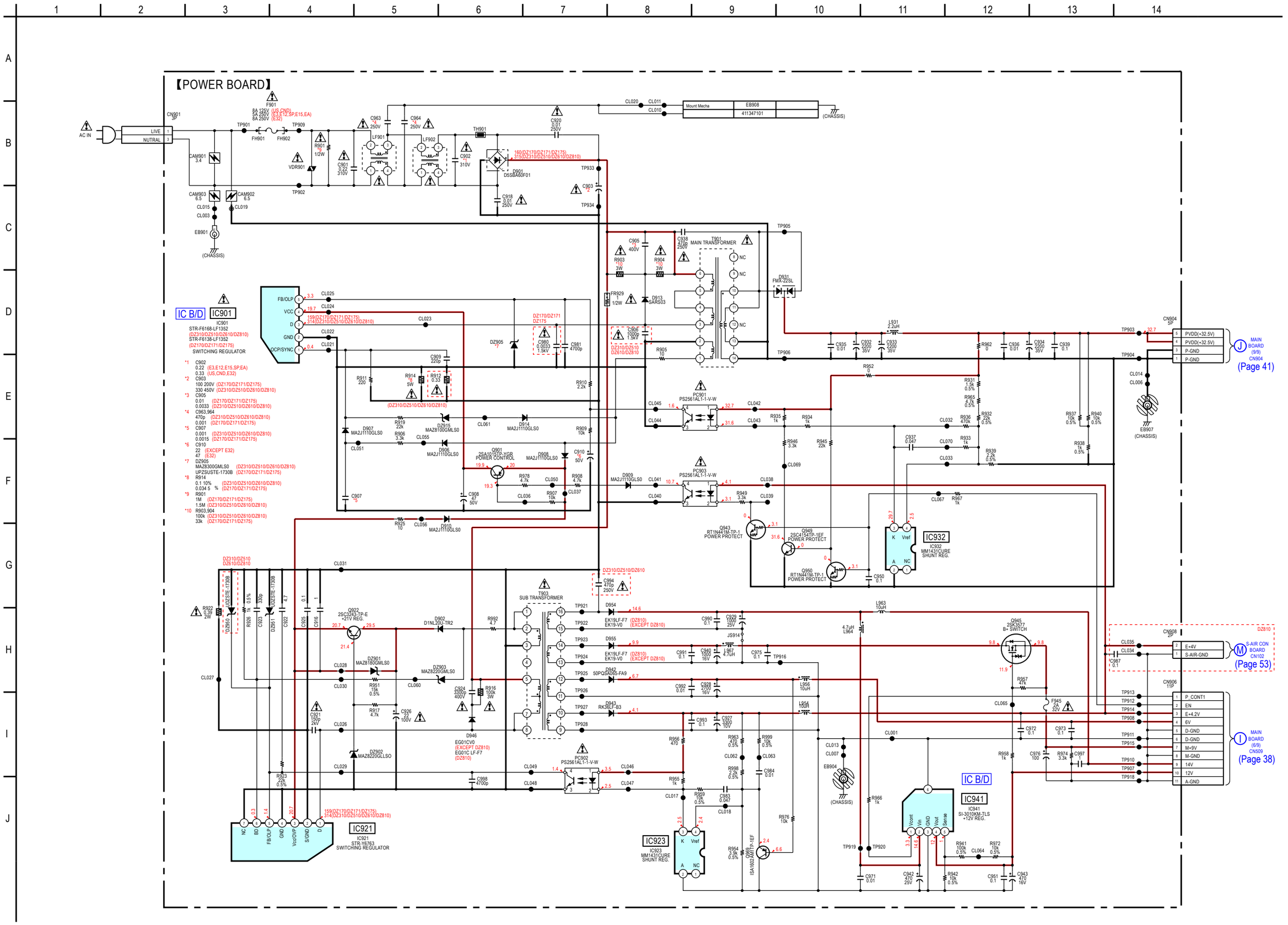
【POWER BOARD】



5-30. SCHEMATIC DIAGRAM – POWER Section –

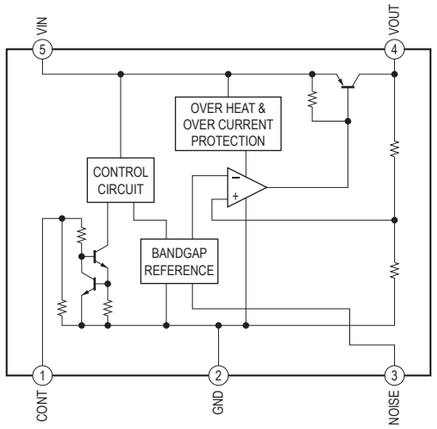
• See page 56, 62 for IC Block Diagrams.

Note: When IC921 on the Power board is damaged, exchange the new Power board for the Power board which IC damaged.

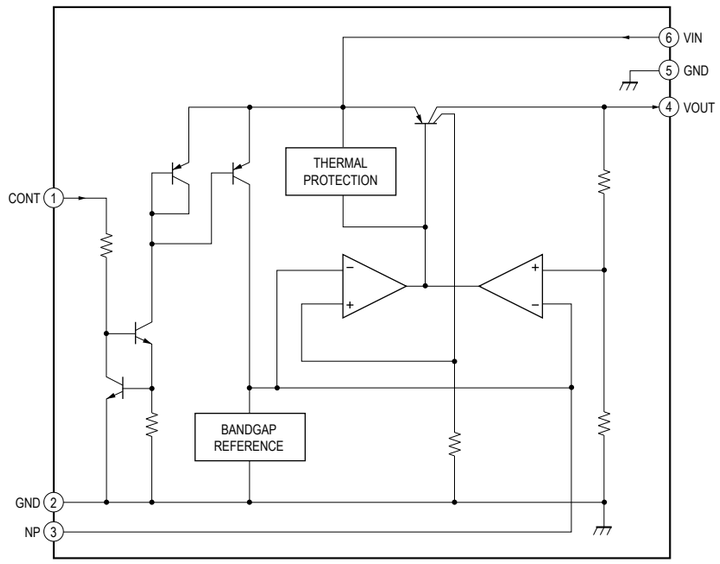


- **IC Block Diagrams**

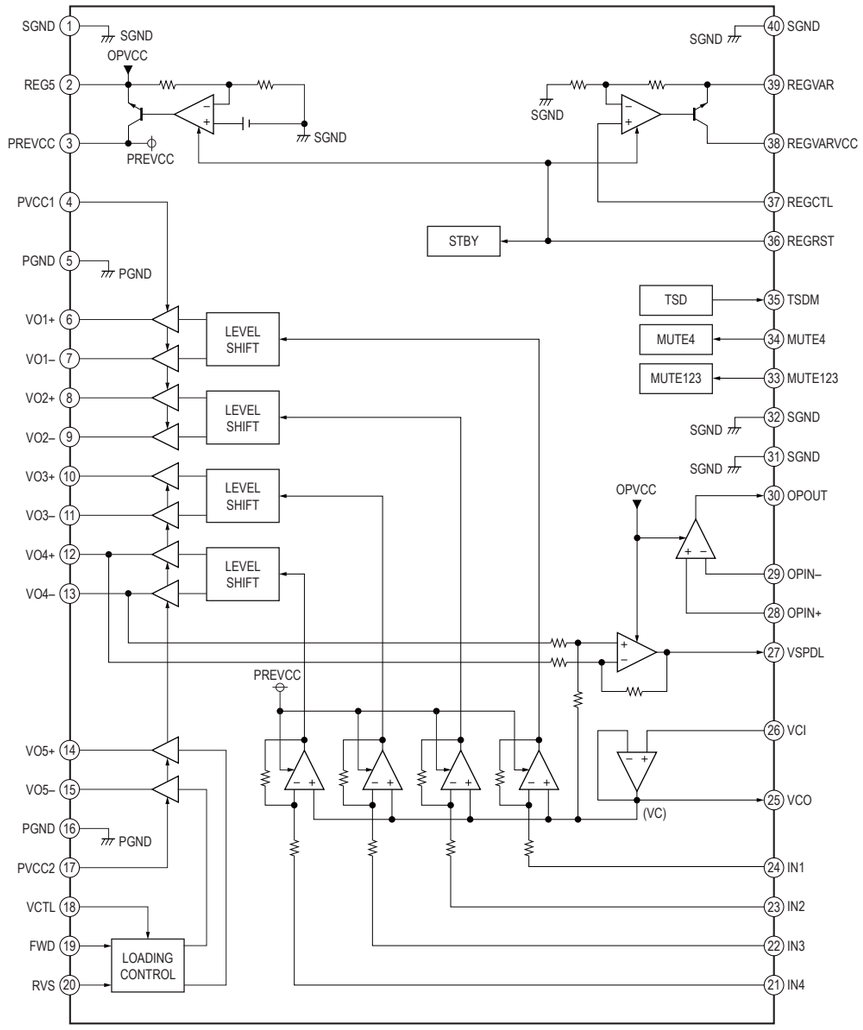
IC1105 TK11133CSCL-G (MAIN Board (1/9))
IC1107 TK11133CSCL-G (MAIN Board (1/9))
IC1707 TK11150CSCL-G (MAIN Board (3/9))
IC1708 TK11133CSCL-G (MAIN Board (3/9))
IC4001 TK11150CSCL-G (IO Board)
IC5001 TK11133CSCL-G (FL Board)



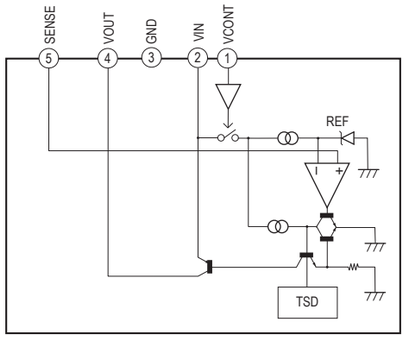
IC504 TK11250CMCL-G (MAIN Board (6/9))



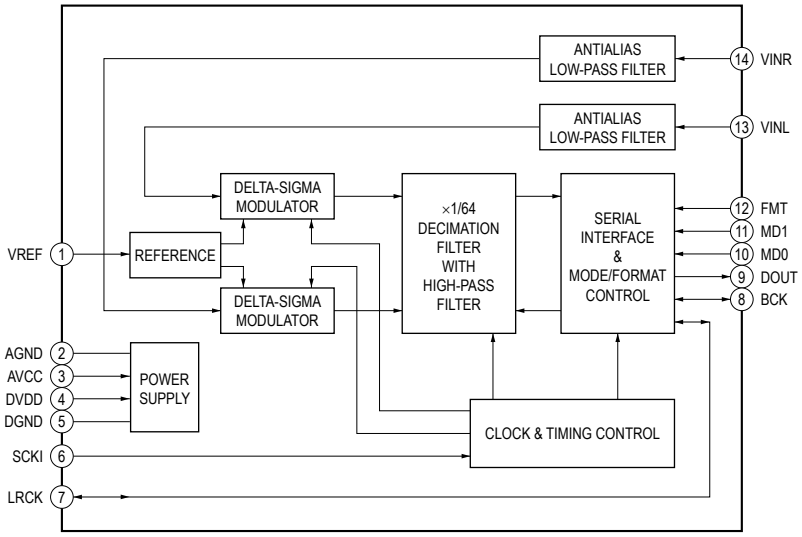
IC1501 BD8203EFV-E2 (MAIN Board (4/9))



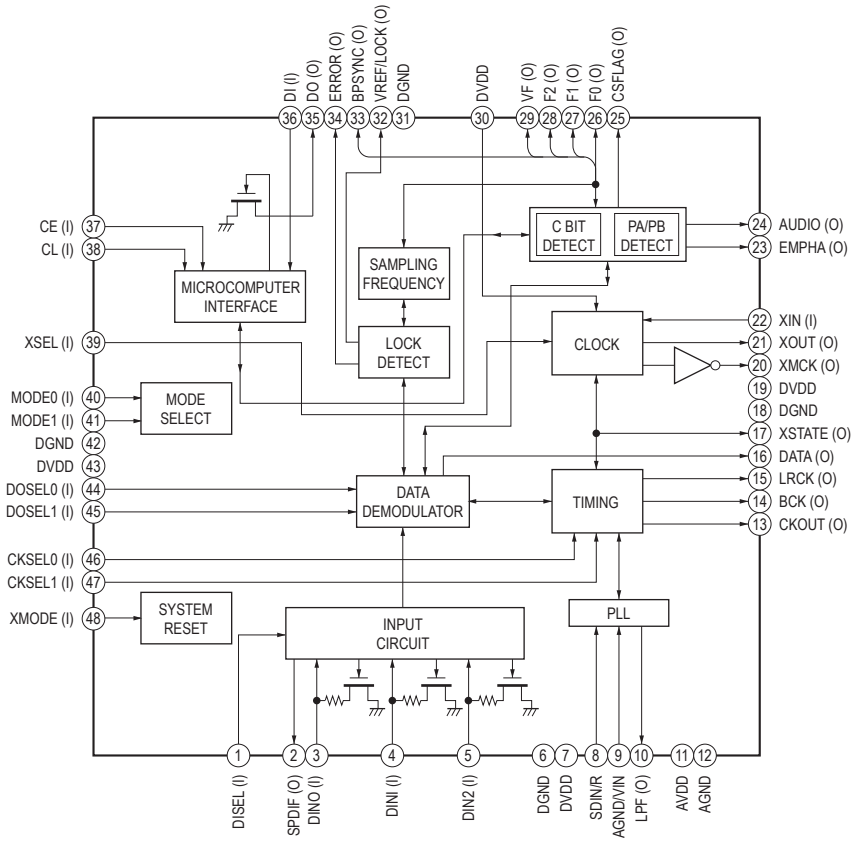
IC509 SI-3010KM-TLS (MAIN Board (6/9))
IC941 SI-3010KM-TLS (POWER Board)



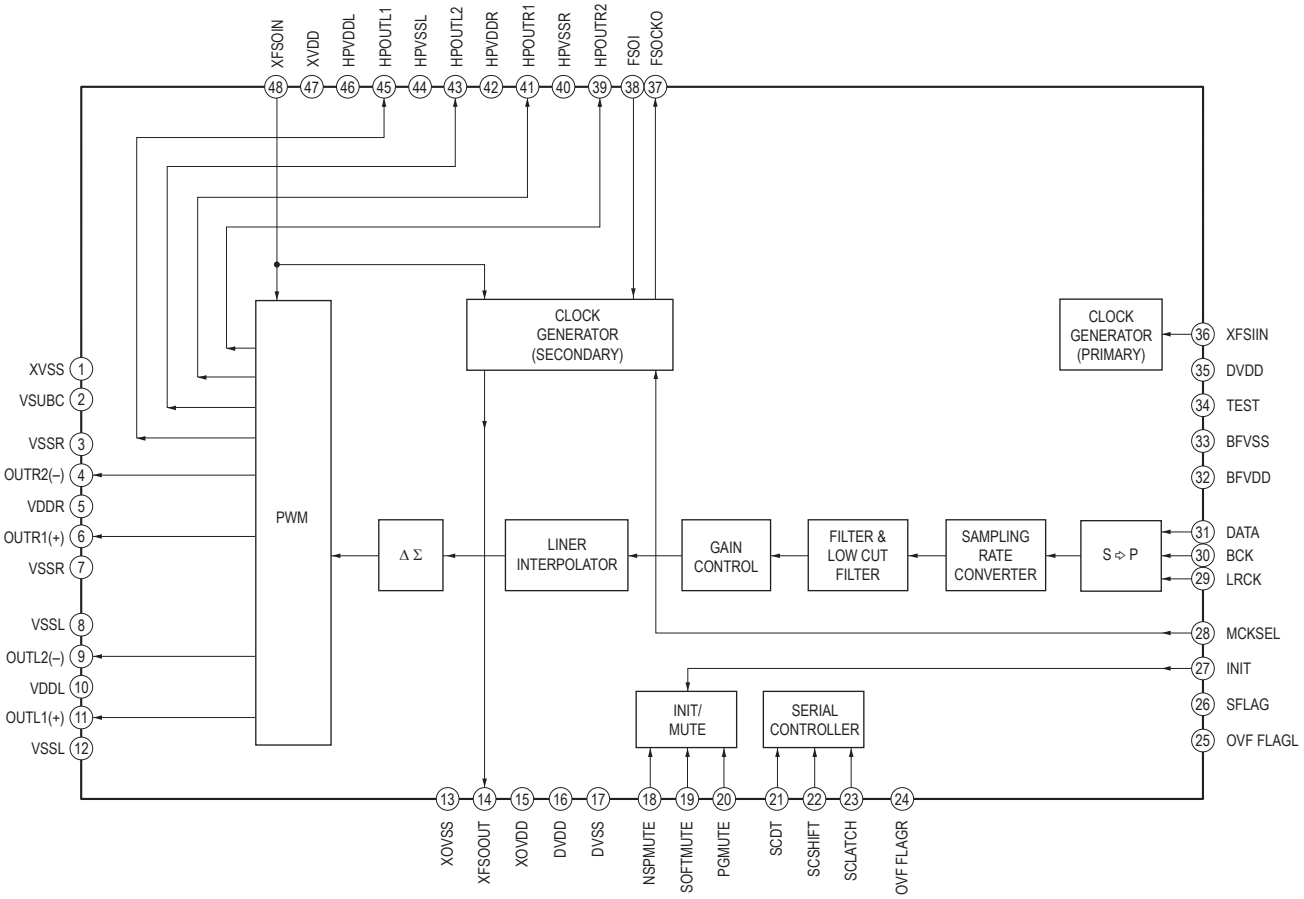
IC303 PCM1808PWR (MAIN Board (7/9))



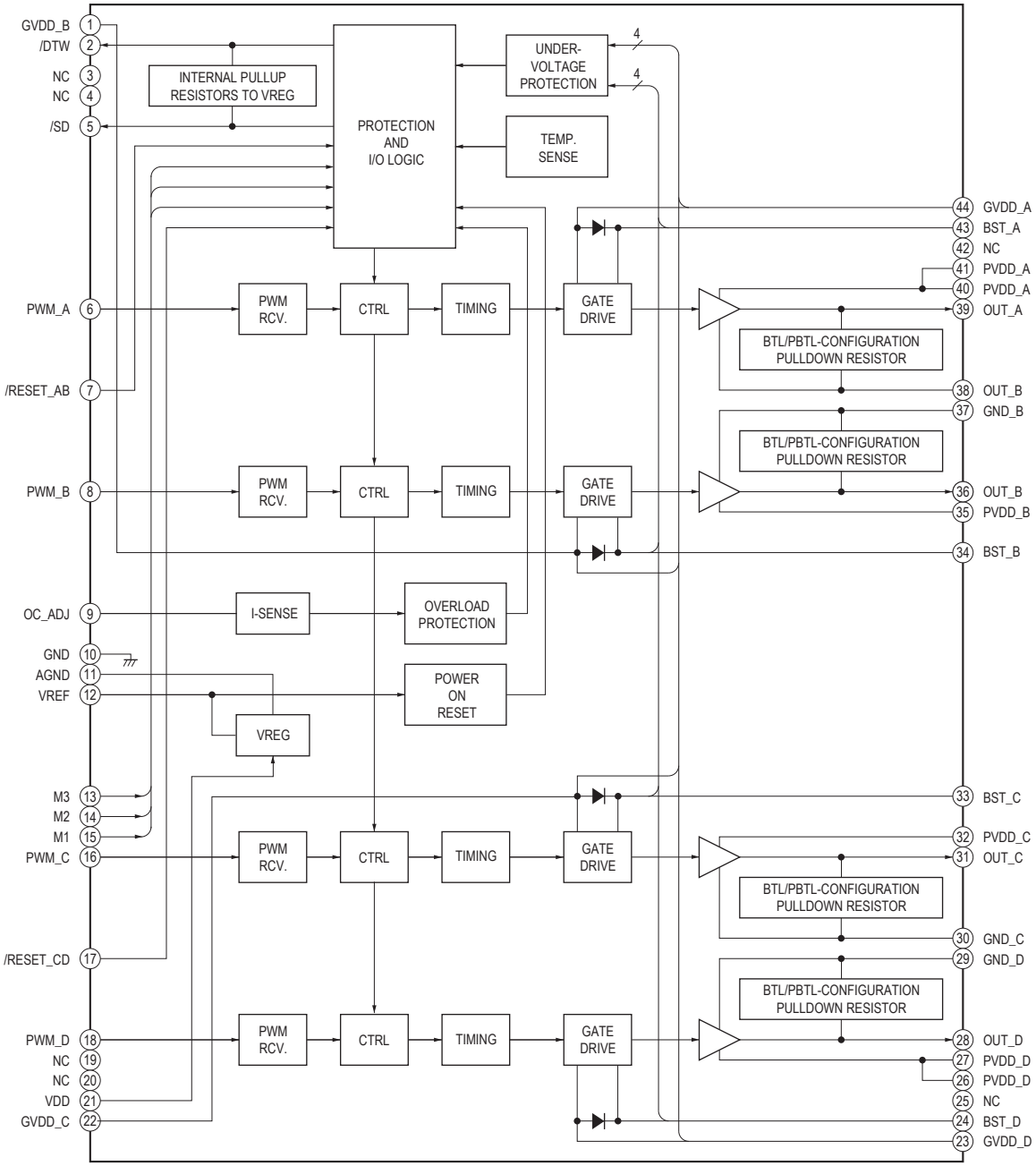
IC304 LC89056W-E (MAIN Board (7/9))



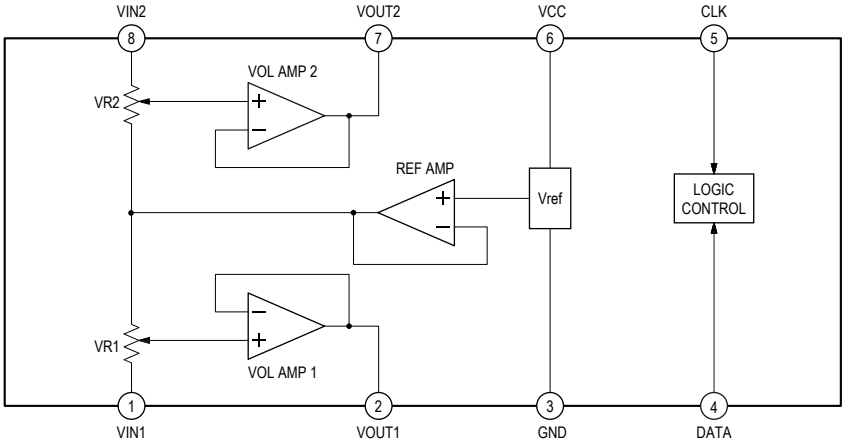
IC3010 CXD9788R (MAIN Board (8/9))
IC3030 CXD9788R (MAIN Board (8/9))
IC3020 CXD9788R (MAIN Board (9/9))



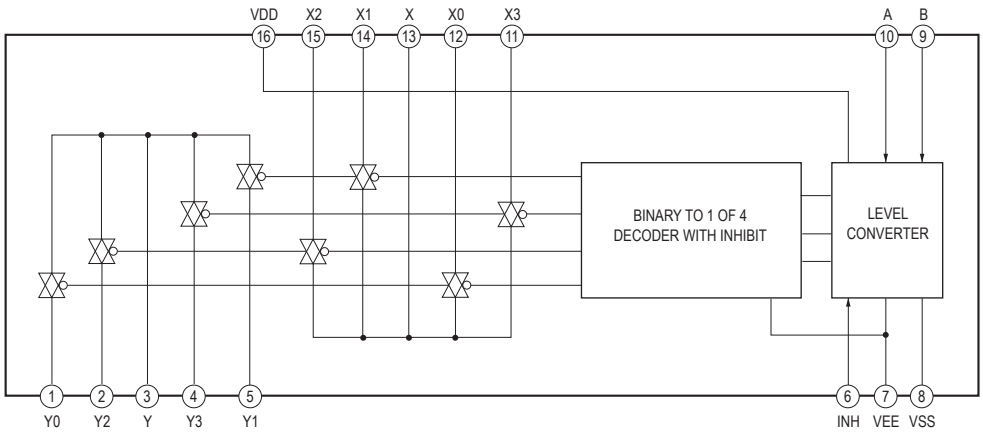
IC3100 CXD9981TN (MAIN Board (8/9))
IC3300 CXD9981TN (MAIN Board (8/9))
IC3200 CXD9981TN (MAIN Board (9/9))



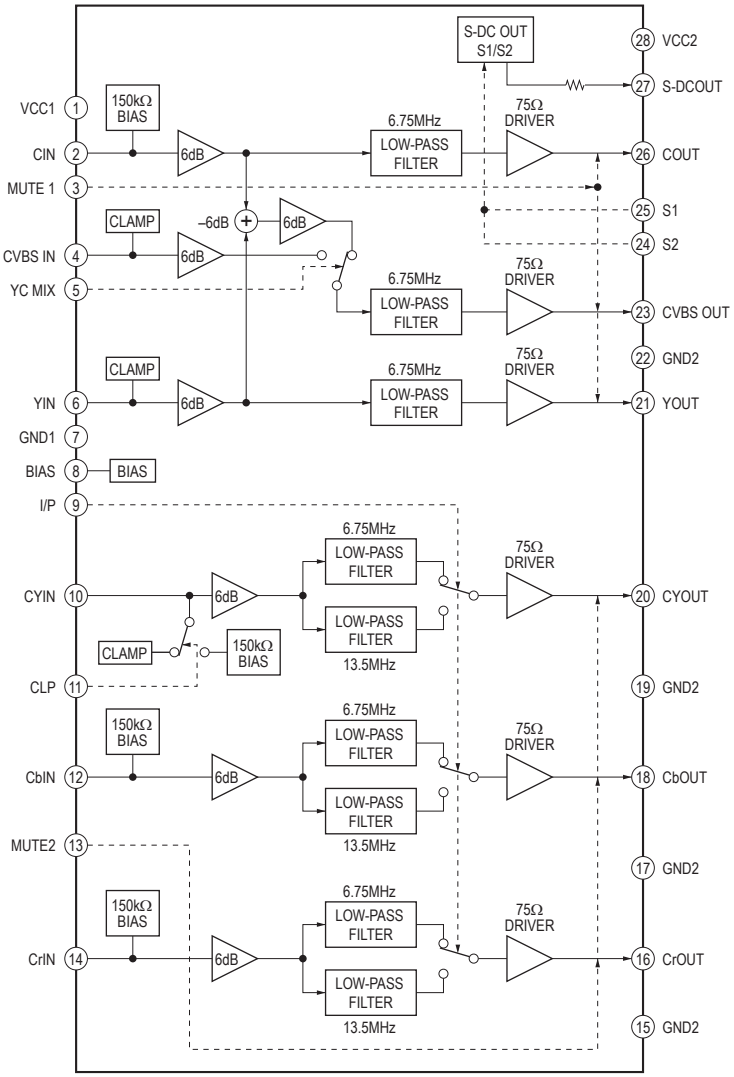
IC4004 M62429FP-TP (IO Board)



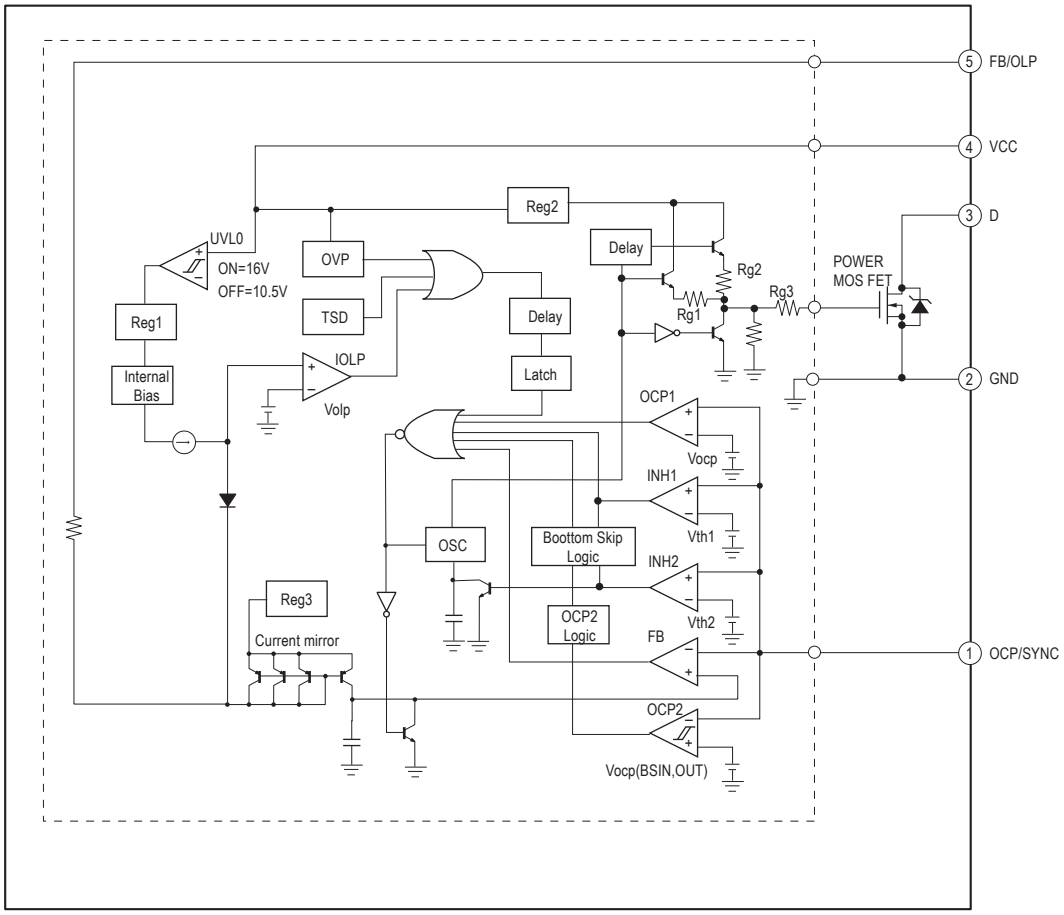
IC4003 MC14052BDR2 (IO Board)



IC4000 MM1758AFBE (IO Board)



IC901 STR-F6138-LF1352 (POWER Board) (DZ170/DZ171/DZ175)
IC901 STR-F6168-LF1352 (POWER Board) (DZ310/DZ510/DZ610/DZ810)



• **IC Pin Function Description**

MAIN BOARD (2/9) IC1101 CXD9917R-B (DZ170/DZ171/DZ175)/CXD9927R-B (DZ310/DZ510/DZ610/DZ810)
(CD/DVD RF AMP, FOCUS/TRACKING ERROR AMP, DVD SYSTEM CONTROL, DSP, DIR/USB/HDMI CONTROL)

Pin No.	Pin Name	I/O	Description
1	OSN	—	RF offset cancellation capacitor connecting terminal
2	RFGC	I	RF AGC loop capacitor connecting terminal
3	IREF	I	Current reference setting terminal
4	AVDD3	—	Power supply (VDD3.3V)
5	AGND	—	Ground
6	DVDA	I	AC coupled input path A
7	DVDB	I	AC coupled input path B
8	DVDC	I	AC coupled input path C
9	DVDD	I	AC coupled input path D
10	DVDRFIP	I	DC coupled DVD RF signal input RFIP
11	MA	I	DC coupled main-beam RF signal input A
12	MB	I	DC coupled main-beam RF signal input B
13	MC	I	DC coupled main-beam RF signal input C
14	MD	I	DC coupled main-beam RF signal input D
15	SA	—	Not used. (Open)
16	SB	—	Not used. (Open)
17	TNI	I	DC coupled main-beam RF signal input E
18	TPI	I	DC coupled main-beam RF signal input F
19	MDI1	I	Laser power monitor input
20	MDI2	I	Laser power monitor input
21	LDO2	O	Laser diode (DVD) drive signal output
22	LDO1	O	Laser diode (CD) drive signal output
23	SVDD3	—	Power supply (RF+3.3V)
24	CSO	O	Not used. (Open)
25	RFLVL	O	RFRP low pass output
26	SGND	—	Ground
27	V2REFO	O	Reference voltage (2.8V) output
28	V20	O	Reference voltage (2.0V) output
29	VREFO	O	Reference voltage (1.4V) output
30	FEO	O	Focus error monitor output
31	TEO	O	Tracking error monitor output
32	TEZISLV	O	TE Slicing Level output
33	OP_OUT	O	Op amp output
34	OP_INN	I	Op amp negative input
35	OP_INP	I	Spindle feedback signal input
36	DMO	O	Spindle motor control PWM signal output
37	FMO	O	Sled motor control PWM signal output
38	TROPENPWM	O	Tray Loading motor PWM signal output
39	IOPMON	I	Iop Monitor input
40	TRO	O	Tracking servo control signal output
41	FOO	O	Focus servo control signal output
42	AGND18	—	Ground
43	AVDD18	—	Power supply (+1.8V)
44	USB_DP	I/O	USB port serial data input/output
45	USB_DM	I/O	USB port serial data input/output
46	USB_VDD3	—	USB power supply (+3.3V)
47	USB_VSS	—	USB ground
48	PAD_VRT	—	Not used. (Pull up)
49	USB_VDD18	—	Power supply (+1.8V)
50	USB_VSS	I	Ground
51	DIR_ERROR/NC	I	Not used. (Pull down)
52	DIR_AUDIO/NC	I	Not used. (Pull down)
53	LIMITSW	I	LIMIT SW signal input
54	MSW	O	DVD/CD PD –VR select signal output
55	DVDD18	—	Power supply (+1.8V)
56 to 62	HA2 to HA8	O	Flash ROM address bus A2 to A8 output

Pin No.	Pin Name	I/O	Description
63, 64	HA18, HA19	O	Flash ROM address bus A18, A19 output
65	DVDD3	—	Power supply (+3.3V)
66	XWR	O	Flash ROM write signal output
67 to 74	HA16 to HA9	O	Flash ROM address bus A16 to A9 output
75	HA20		Flash ROM address bus A20 output
76	XROMCS	O	Flash ROM chip select signal output
77	HA1	O	Flash ROM address bus A1 output
78	XRD	O	Flash ROM read signal output
79, 80	HD0, HD1	I/O	Flash ROM data bus D0, D1 input/output
81	DVSS	—	Ground terminal
82 to 86	HD2 to HD6	I/O	Flash ROM data bus D2 to D6 input/output
87	HA21	I/O	Flash ROM data bus D21 input/output
88	RESERVED	—	Not used. (Open)
89	HD7	I/O	Flash ROM data bus D7 input/output
90	DVSS	—	Ground terminal
91, 92	HA17, HA0	O	Flash ROM address bus A17, A0 output
93	DVDD18	—	Power supply (+1.8V)
94	FWD	O	Tray loading motor control (FWR) signal output
95	REV	O	Tray loading motor control (REV) signal output
96	DVDD3	—	Power supply (+3.3V)
97	IFSDO	O	CPU I/F serial data output
98	IFCK	O	CPU I/F serial clock output
99	xIFCS	O	CPU I/F chip select output
100	IFSDI	I	CPU I/F serial data input
101	SCL	O	EEPROM serial clock output
102	SDA	I/O	EEPROM serial data input/output
103	CKSW	I	Chuck/Tray detect switch signal input
104	OCSW	I	Chuck/Tray detect switch signal input
105	RXD	I	RXD signal input from Jig
106	TXD	O	TXD signal output to Jig
107	ICE	O	Not used. (Open)
108	xSYSRST	I	System reset signal input
109	RESERVED	I	Not used. (Open)
110	xIFBSY	I	Busy signal input from CPU I/F
111	DQM0	O	SDRAM lower byte mask enable signal output
112	EEWP	O	EEPROM ready/Busy wake up signal output
113 to 117	RD7 to RD3	I/O	SDROM data bus D7 to D3 input/output
118	DVDD3	—	Power supply (+3.3V)
119 to 121	RD2 to RD0	I/O	SDROM data bus D2 to D0 input/output
122 to 129	RD15 to RD8	I/O	SDROM data bus D15 to D8 input/output
130	TSD_M	I	TSD signal input
131	DVDD3	—	Power supply (+3.3V)
132	DQM1	O	SDRAM upper byte mask enable signal output
133	_RWE	O	SDRAM write enable signal output
134	_CAS	O	SDRAM column address strobe signal output
135	_RAS	O	SDRAM row address strobe signal output
136	_RCS	O	SDRAM chip select signal output
137, 138	BA0, BA1	O	SDRAM bank address 0, 1 output
139	RA10	O	SDRAM address bus A10 output
140, 141	RA0, RA1	O	SDRAM address bus A0, A1 output
142	DVDD18	—	Power supply (+1.8V)
143, 144	RA2, RA3	O	SDRAM address bus A0, A3 output
145	DVDD3	—	Power supply (+3.3V)
146	DRCLK	O	SDRAM clock output
147	CKE	O	SDRAM clock enable signal output
148	DVSS	—	Ground
149	RA11	O	SDRAM address bus A11 output
150 to 155	RA9 to RA4	O	SDRAM address bus A9 to A4 output
156	DVDD3	—	Power supply (+3.3V)

Pin No.	Pin Name	I/O	Description
157	REGRST	O	REG reset signal output for Focus/Tracking/Sledding motor driver
158	MUTE	O	Mute signal output for Spindle motor
159	DDC_DA	I/O	HDMI DDC line data input/output
160	DVDD18	—	Power supply (+1.8V)
161	DDC_CLK	I/O	HDMI DDC line clock input/output
162	HTPLG	I	HDMI HPD signal input
163	AGND3	—	Ground
164	EXT_RES	—	Ext. resistor connected terminal
165, 166	AVDD3	—	Power supply (+3.3V)
167	EXT_CAP	—	Ext. capacitor connected terminal
168, 169	AGND3, AGND18	—	Ground
170	TXCN	O	HDMI TXD-clock output
171	TXCP	O	HDMI TXD-clock output
172	AVDD18	—	Power supply (+1.8V)
173	TX0N	O	HDMI TXD-0 output
174	TX0P	O	HDMI TXD-0 output
175	AGND18	—	Power supply (+1.8V)
176	TX1N	O	HDMI TXD-1 output
177	TX1P	O	HDMI TXD-1 output
178	AVDD18	—	Power supply (+1.8V)
179	TX2N	O	HDMI TXD-2 output
180	TX2P	O	HDMI TXD-2 output
181	AGND18	—	Power supply (+1.8V)
182	R/Cr/Pr	O	Video chroma R/Cr/Pr signal output
183	B/Cb/Pb	O	Video chroma B/Cb/Pb signal output
184	DACVSSA	—	Ground
185	Y/G	O	Video Y/chroma G signal output
186	DACVDDA	—	Power supply (+3.3V)
187	CVBS	O	Video Composite signal output
188	DACVSSB	—	Ground
189	C	O	Video chroma signal output (Not used in this set)
190	DACVDDB	—	Power supply (+3.3V)
191	Y	O	Video Y signal output (Not used in this set)
192	DACVSSC	—	Ground
193	FS	I	Full Scale Adjustment setting terminal
194	VREF	I	Reference Voltage input terminal
195	DACVDDC	—	Power supply (+3.3V)
196	VBUS_OE	O	VBUS power control signal output
197	VBUS_OC	I	VBUS over current detect signal input
198	SCORE/DIR_XSTATE	I	DIR status signal input
199	SPMCK	I	DIR MCK clock input
200	SPBCK	I	DIR BCK clock input
201	SPLRCK	I	DIR LACK clock input
202	ADIN (SPDATA)	I	DIR digital data input
203	ACLK	O	A/D converter and DAMP clock output
204	ABCK	O	A/D converter and DAMP BCK clock output
205	ALRCK	O	A/D converter and DAMP LRCK clock output
206	MC_DATA (ADIN)	I	A/D converter digital data input
207	DVDD3	—	Power supply (+3.3V)
208	MIC	O	Mic detect status signal input
209	WIDE	O	WIDE select signal output (Not used in this set)
210	RGB_SEL/DSEL	O	Video output select signal output (Not used in this set)
211	TRG_SW	I	Not used. (Pull up)
212	DVDD18	—	Power supply (+3.3V)
213	KMOD	O	KARAOKE mode information signal output
214	XVOICE/DIR_CSFLAG	I	XVOICE signal input
215	SPDIF	O	Not used. (Open)
216	APLLVDD3	—	Power supply (+3.3V)
217	APLLCAP	—	Ext capacitor connected terminal

Pin No.	Pin Name	I/O	Description
218	APLLVSS	—	Ground
219	ADACVSS2	—	Ground
220	ADACVSS1	—	Ground
221	DIR_CE	O	DIR I/F chip select signal output
222	ASDATA3	O	Audio digital signal output to S-AIR transmitter
223	ASDATA2	O	Audio digital signal output to D-AMP
224	AVCM	—	Ext capacitor connected terminal
225	ASDATA1	O	Audio digital signal output to D-AMP
226	ASDATA0	O	Audio digital signal output to D-AMP
227	DIR_CL	O	DIR I/F clock output
228	ADACVDD1	—	Power supply (+3.3V)
229	ADACVDD2	—	Power supply (+3.3V)
230	Rt/DIR_DI	O	DIR I/F data output
231	Lt/DIR_DO	I	DIR I/F data input
232	ADACVSS3	—	Ground
233	ADACVDD3	—	Power supply (+3.3V)
234	SADCVDD18	—	Power supply (+1.8V)
235	SADCVSS18	—	Ground
236	RFGND18	—	Ground
237	RFVDD18	—	Power supply (+1.8V)
238	XTALO	O	Crystal output for main clock (27MHz)
239	XTALI	I	Crystal input for main clock (27MHz)
240	JITFO	O	The output terminal of RF jitter meter
241	JITFN	I	The input terminal of RF jitter meter
242	PLLVSS	—	Ground
243	PLLVDD3	—	Power supply (+3.3V)
244	LPFON	O	The negative output of loop filter amplifier
245	LPFIP	I	The positive input terminal of loop filter amplifier
246	LPFIN	I	The negative input terminal of loop filter amplifier
247	LPFOP	O	The positive output of loop filter amplifier
248	ADCVDD3	—	Power supply (+3.3V)
249	ADCVSS	—	Ground
250	RFVDD3	—	Power supply (+3.3V)
251	RFRPDC	O	RF ripple detect output
252	RFRPAC	I	RF ripple detect input (through AC-coupling)
253	HRFZC	I	High frequency RF ripple zero crossing
254	CRTPLP	O	Defect level filter capacitor connected terminal
255	RFGND18	—	Power supply (+3.3V)
256	OSP	O	RF offset cancellation capacitor connecting terminal

MAIN BOARD (5/9) IC503 R5F364AEDFA (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Description
1	DAMP_SCD	O	DAMP processor data output
2	DAMP_SHIFT	O	DAMP processor clock output
3	FL_CS	O	FL driver chip select signal output
4	SIRCS_IN	I	Sircs signal input
5	FL_D_OUT	O	FL and LED driver data output
6	reserved (CEC_RX_IN)	O	CEC data input (Not used in this set)
7	FL_CLK	O	FL and LED driver clock output
8	BYTE	I	External data bus input. (Connected to ground)
9	CNVSS	I	Change processor mode input
10	NO USE	—	Not used. (Open)
11	NO USE	—	Not used. (Open)
12	RESET	I	System reset signal input
13	XOUT	O	Crystal output for main clock (5MHz)
14	VSS	—	Ground
15	XIN	I	Crystal input for main clock (5MHz)
16	VCC	—	Power supply (BUP +3.3V)
17	CEC_TX_RX	I/O	CEC data input/output
18	NO USE	—	Not used. (Open)
19	NO USE	—	Not used. (Open)
20	AC_CUT	I	AC-CUT detect signal input
21	NO USE	—	Not used. (Open)
22	NO USE	—	Not used. (Open)
23	NO USE	—	Not used. (Open)
24	NO USE	—	Not used. (Open)
25	NO USE	—	Not used. (Open)
26	reserved (CEC_TX_OUT)	O	CEC data output (Not used in this set)
27	NO USE	—	Not used. (Open)
28	LED_ILLUMI	O	LED drive PWM signal output for illumination (Not used in this set)
29	S-AIR_SCL	I/O	S-AIR serial clock input/output
30	S-AIR_SDA	I/O	S-AIR serial data input/output
31	I2C_DATA/TXD1	I/O	I2C data (debug) and Flash Write TXD data input/output
32	I2C_CLK/RXD1	I/O	I2C clock (debug) and Flash Write RXD data input/output
33	CLK1	O	Flash Write CLK signal output
34	RST1	O	Flash Write RST signal output
35	GPIO2	I	S-AIR interrupt signal input
36	S-AIR_DET	I	S-AIR unit detect signal input
37	S-AIR_RST	O	S-AIR reset signal and SRC reset signal output
38	S-AIR_ADC_SEL	O	S-AIR AD converter select signal output
39	P_CONT1	O	Power control signal output
40	reserved (NSP_MUTE)	—	Not used.
41	P_CONT_FL	O	Power control signal output
42	DC_CONT	O	A.CAL MIC DC control signal output
43	NO USE	—	Not used. (Open)
44	CDM_OPEN_SW	I	CDM open switch signal input
45	MTK_RST	O	Reset signal output to CDX9917R or CDX9927R
46	CE	I	Flash Write CE signal input
47	DVD_SID	O	Serial data output to CDX9917R or CDX9927R
48	DVD_SOD	I	Serial data input from CDX9917R or CDX9927R
49	DVD_SCO	I	Serial clock input from CDX9917R or CDX9927R
50	DVD_XIFBUSY	O	Busy request signal output to CDX9917R or CDX9927R
51	DVD XIFCS	I	Chip select signal input
52	TV_SEL/ MIC_DET_OUT	O	Mic detect status signal output
53	KARAOKE_MODE	I	KARAOKE mode information signal input.
54	DRIVER_RST(EN)	O	D-AMP driver reset signal output
55	OVERFLOW1	I	D-AMP processor F/C/S over flow detect signal input
56	OVERFLOW2	I	D-AMP processor SW over flow detect signal input
57	DAMP INIT	O	D-AMP processor reset signal output

Pin No.	Pin Name	I/O	Description
58	DAMP_SOFT_MUTE	O	D-AMP processor soft muting signal output
59	DAMP_LATCH1	O	D-AMP processor latch-1 (Front L/R) signal output
60	DAMP_LATCH2	O	D-AMP processor latch-2 (Surround L/R) signal output
61	DAMP_LATCH3	O	D-AMP processor latch-3 (Center/Subwoofer) signal output
62	VCC	—	Power supply (BUP+3.3V)
63	LINK_SW	O	LINK (S-AIR Headphone) control signal output
64	VSS	—	Ground
65	MIC/A.CAL_SW MIC2_SW	I	MIC insert detect signal input
66	DC_DET	I	Speaker DC balance protect signal input
67	SD/PVDD_DET	I	D-AMP driver shut down signal and PVDD detect signal input
68	A.CAL_OUT_LEVEL	I	Speaker output detect signal input for audio calibration
69	MIC_DATA	O	MIC volume data output
70	MIC_CLK	O	MIC volume clock output
71	NO USE	—	Not used. (Open)
72	HDMI_PCONT	O	HDMI hot plug power control signal output
73	KEY_INT	I	Wakeup signal input from function key
74	RDS-DATA	I	RDS data input (Not used in this set)
75	RDS_CLK	I	RDS clock input (Not used in this set)
76	ST_CE	O	TUNER chip enable signal output
77	ST_DI	O	TUNER serial data output
78	ST_DO	I	TUNER serial data input
79	ST_CLK	O	TUNER serial clock output
80	TUNED	I	TUNER TUNED signal input
81	V_SEL0	O	Video select signal output
82	V_SEL1	O	Video select signal output
83	NO USE	—	Not used. (Open)
84	ASEL0	O	Audio select signal output
85	ASEL1	O	Audio select signal output
86	ASEL2	O	Audio select signal output
87	reserved (ASEL)	—	Not used. (Open)
88	NO USE	—	Not used. (Open)
89	reserved (EUP)	—	Not used.
90	NO USE	—	Not used. (Open)
91	A.CAL MIC LEVEL	I	MIC input level detect signal input for Auto Calibration
92	DESTINATION	I	Destination select input
93	MODEL	I	Model select input
94	KEY2	I	Key 2 input
95	KEY1	I	Key 1 input
96	VSS	—	Ground
97	KEY0	I	Key 0 input
98	Vref	—	Reference voltage (3.3V)
99	VCC	—	Power supply (+3.3V)
100	MODEL SERIES	I	Series select input

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
- Accessories are given in the last of the electrical parts list.
- Abbreviation
  CND : Canadian model
  E3 : 240V AC area in E model
  E12 : 220 – 240V AC area in E model
  E15 : Iranian model
  E32 : 110 – 240V AC area in E model
  EA : Saudi Arabia model
  SP : Singapore model

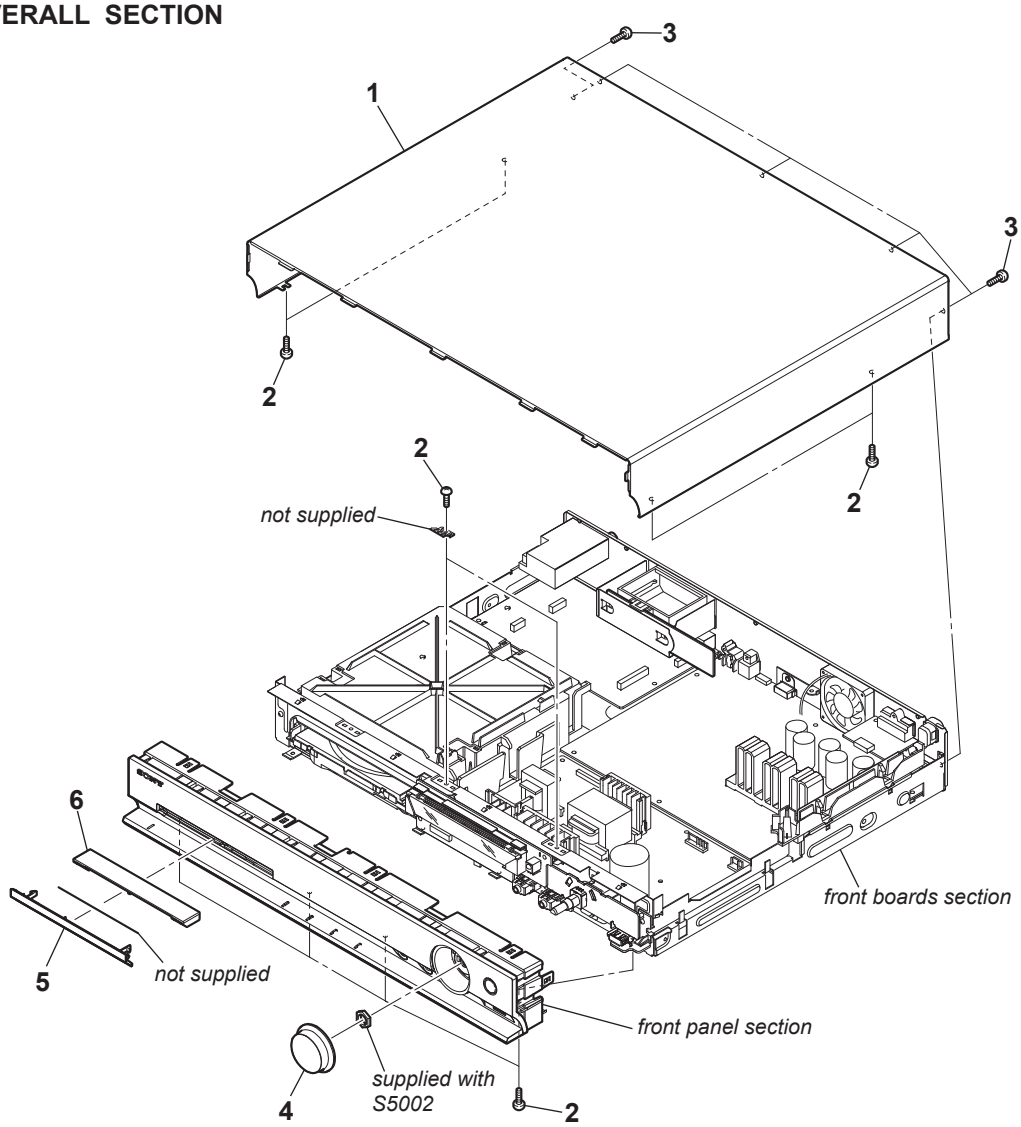
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

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

The components identified by mark 🔒 contain confidential information.
Strictly follow the instructions whenever the components are repaired and/or replaced.

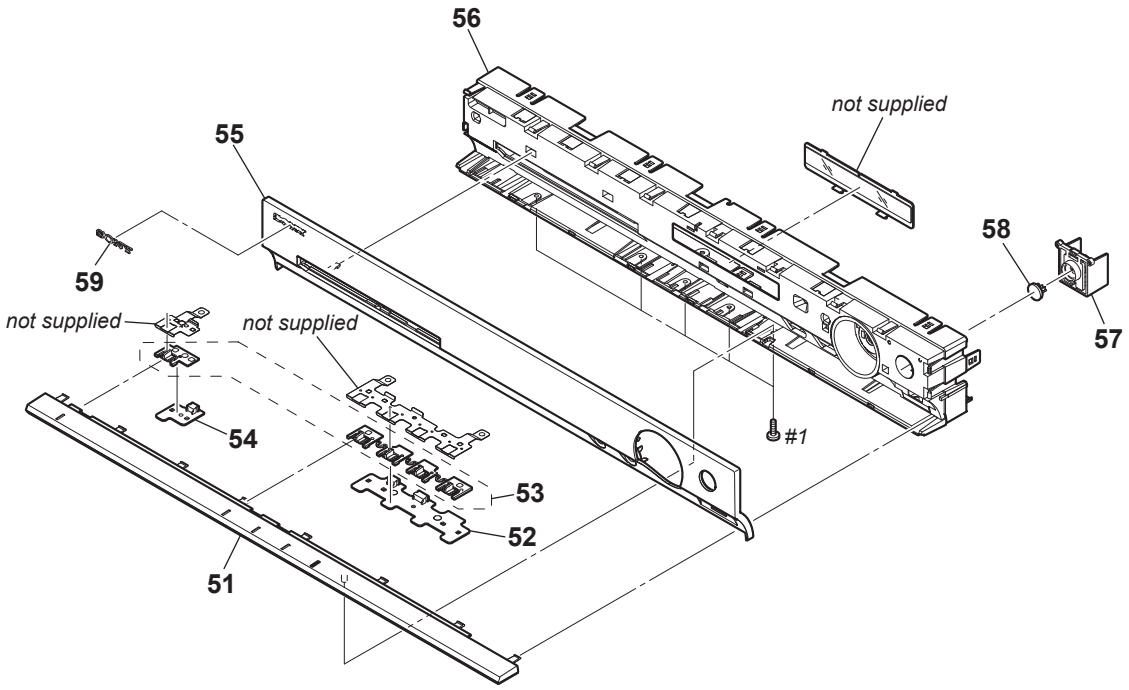
Les composants identifiés par la marque 🔒 contiennent des informations confidentielles.
Suivre scrupuleusement les instructions chaque fois qu'un composant est remplacé et / ou réparé.

6-1. OVERALL SECTION



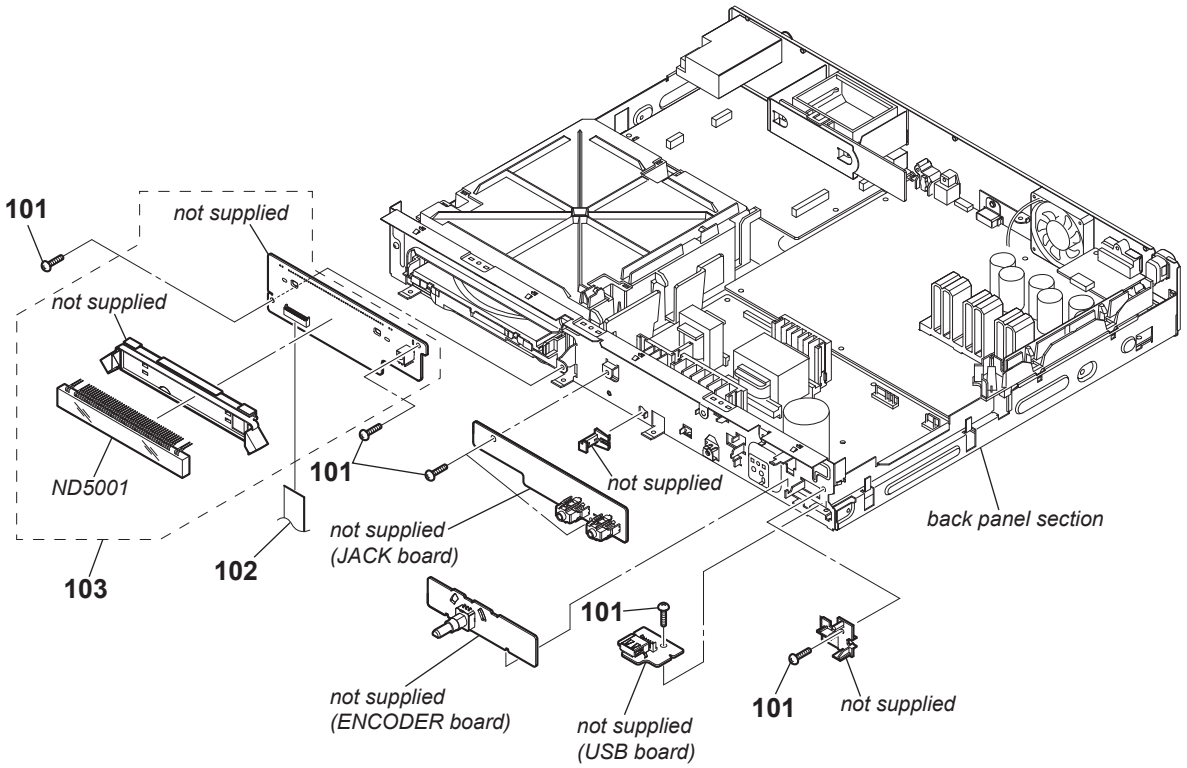
Ref. No.	Part No.	Description	Remark
1	4-159-516-11	CASE (DSZ)	
2	3-077-331-21	+BV3 (3-CR)	
3	3-077-331-11	+BV3 (3-CR)	
4	4-159-500-01	KNOB, VOL (DSZ)	
5	4-159-492-01	PANEL, LOADING	
6	4-159-493-01	BASE, LOADING	

6-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	4-159-494-11	ESCUTCHEON (DSZ) (DZ175)	
51	4-159-494-21	ESCUTCHEON (DSZ) (DZ170)	
51	4-159-494-31	ESCUTCHEON (DSZ) (DZ171)	
51	4-159-494-51	ESCUTCHEON (DSZ) (DZ310)	
51	4-159-494-81	ESCUTCHEON (DSZ) (DZ510)	
51	4-159-494-91	ESCUTCHEON (DSZ) (DZ610)	
51	4-168-139-31	ESCUTCHEON (DSZ-2) (DZ810)	
52	A-1746-218-A	KEY-SW BOARD, COMPLETE	
53	4-159-495-01	BUTTON (PLAY)	
54	A-1746-219-A	P-SW BOARD, COMPLETE	
55	4-159-490-01	WINDOW (DSZ)	
56	4-159-491-01	BASE, FRONT (DSZ)	
57	4-159-496-02	BASE, BUTTON (USB)	
58	4-159-497-01	BUTTON (USB-DSZ)	
59	4-160-803-01	EMBLEM, SONY (4.5A)	
#1	7-685-504-19	SCREW +BTP 2X6 TYPE2 N-S	

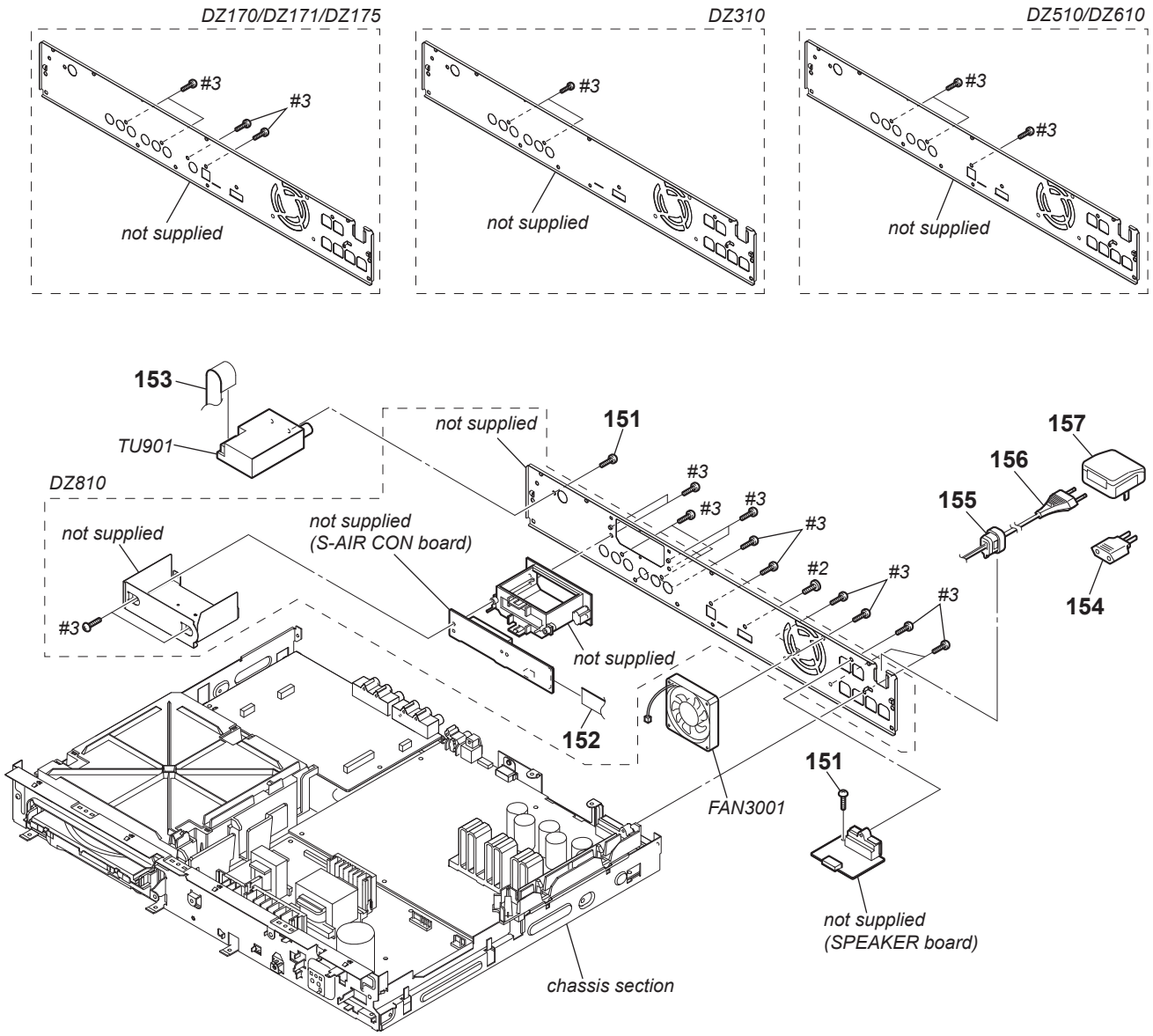
6-3. FRONT BOARDS SECTION



Note: If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

Ref. No.	Part No.	Description	Remark
101	3-077-331-21	+BV3 (3-CR)	
102	1-832-579-21	CABLE, FLEXIBLE FLAT (13 CORE) (DZ170/DZ171/DZ175)	
102	1-832-589-21	CABLE, FLEXIBLE FLAT (15 CORE) (DZ310/DZ510/DZ610/DZ810)	
103	A-1746-404-A	FL BOARD, COMPLETE (DZ310/DZ510/DZ610/DZ810)	
103	A-1746-473-A	FL BOARD, COMPLETE (DZ170/DZ171/DZ175)	
ND5001	1-483-107-21	FLUORESCENT INDICATOR TUBE	

6-4. BACK PANEL SECTION

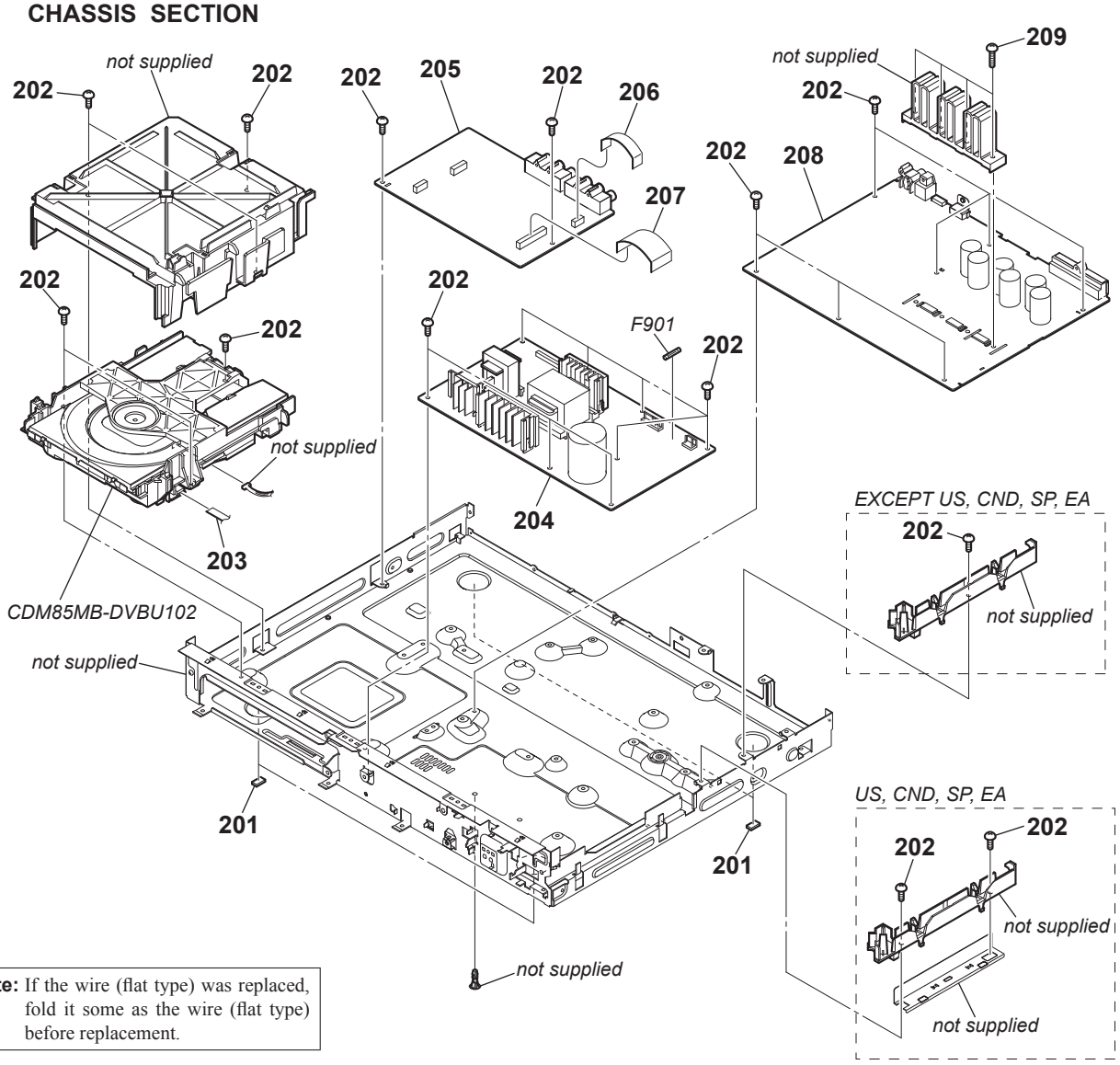


Note: If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

Ref. No.	Part No.	Description	Remark
151	3-077-331-21	+BV3 (3-CR)	
152	1-832-576-21	CABLE, FLEXIBLE FLAT (13 CORE) (DZ810)	
153	1-832-813-21	CABLE, FLEXIBLE FLAT (9 CORE)	
⚠ 154	1-569-008-33	ADAPTOR, CONVERSION (E32)	
155	3-703-244-00	BUSHING, CORD (2104)	
⚠ 156	1-834-966-41	CORD, POWER-SUPPLY (DZ310/DZ510/DZ610/DZ810)	

Ref. No.	Part No.	Description	Remark
⚠ 156	1-837-308-11	CORD, POWER-SUPPLY (DZ170/DZ171/DZ175)	
⚠ 157	1-770-019-71	ADAPTOR, CONVERSION PLUG 3P (EA)	
FAN3001	1-787-396-21	FAN, DC (50 SQUARE)	
TU901	1-693-780-11	TUNER (FM) (DZ310/DZ510/DZ610/DZ810)	
TU901	1-693-781-11	TUNER (FM) (DZ170/DZ171/DZ175)	
#2	7-682-547-04	SCREW +B 3X6	
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

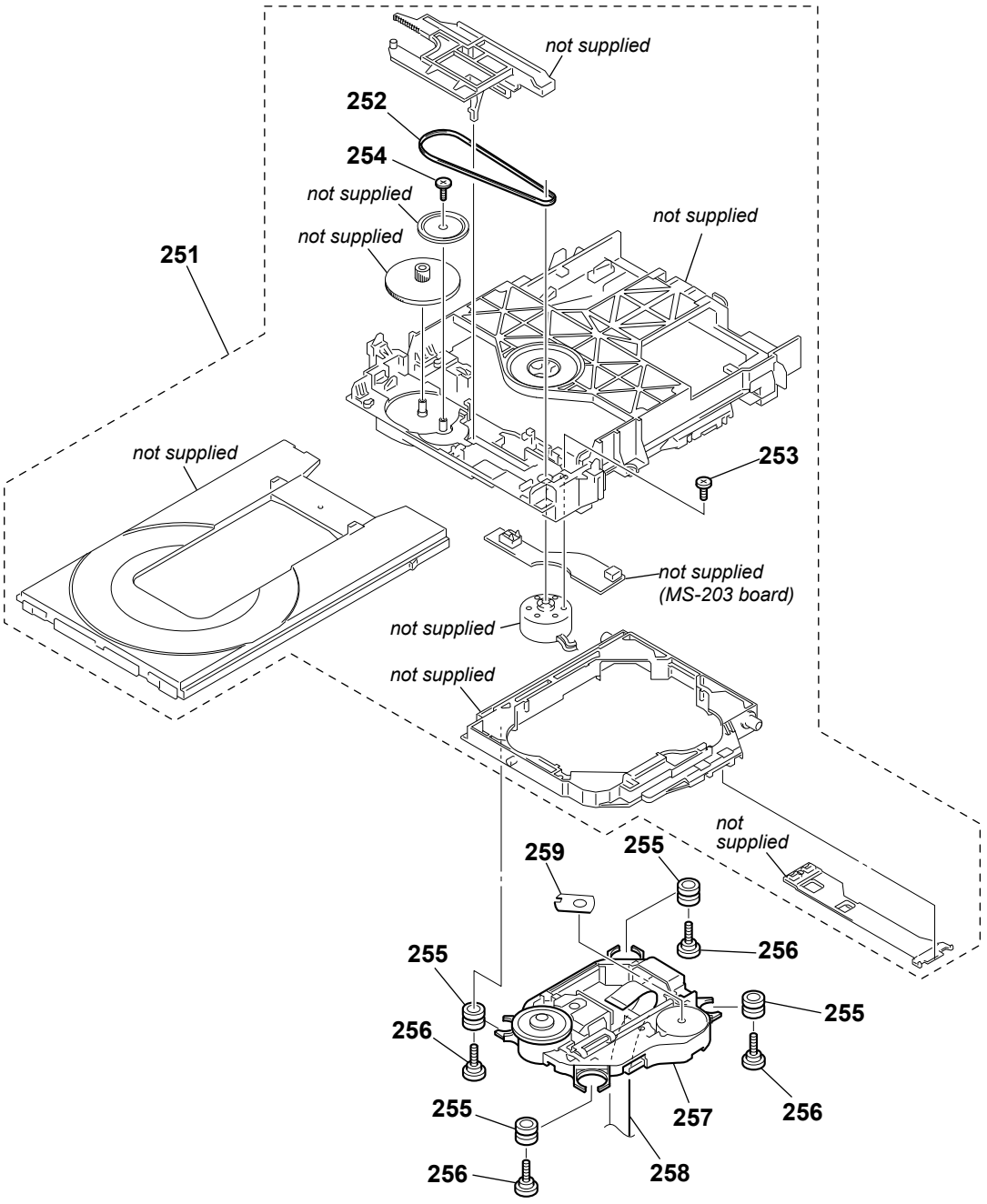
6-5. CHASSIS SECTION



Note: If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

Ref. No.	Part No.	Description	Remark
201	4-151-413-01	CUSHION (EGD)	
202	3-077-331-21	+BV3 (3-CR)	
203	1-832-538-21	CABLE, FLEXIBLE FLAT (5 CORE)	
204	A-1745-461-A	POWER BOARD, COMPLETE (DZ310:E3,E12,SP/DZ510/DZ610)	
204	A-1745-463-A	POWER BOARD, COMPLETE (DZ170/DZ171/DZ175)	
204	A-1745-467-A	POWER BOARD, COMPLETE (DZ310:E32)	
204	A-1761-521-A	POWER BOARD, COMPLETE (DZ810:E3,E12,SP,E15,EA)	
204	A-1761-527-A	POWER BOARD, COMPLETE (DZ810:E32)	
205	A-1746-407-A	IO BOARD, COMPLETE (DZ310/DZ510)	
205	A-1746-494-A	IO BOARD, COMPLETE (DZ170/DZ171/DZ175)	
205	A-1746-535-A	IO BOARD, COMPLETE (DZ610)	
205	A-1746-740-A	IO BOARD, COMPLETE (DZ810)	
206	1-832-553-21	CABLE, FLEXIBLE FLAT (9 CORE)	
207	1-832-592-21	CABLE, FLEXIBLE FLAT (17 CORE) (DZ170/DZ171/DZ175)	
207	1-832-602-21	CABLE, FLEXIBLE FLAT (19 CORE) (DZ310/DZ510/DZ610/DZ810)	
208	A-1746-794-A	MAIN BOARD, COMPLETE (for SERVICE) (DZ310:E3)	
208	A-1746-795-A	MAIN BOARD, COMPLETE (for SERVICE) (DZ310:SP)	
208	A-1746-801-A	MAIN BOARD, COMPLETE (for SERVICE) (DZ175)	
208	A-1746-802-A	MAIN BOARD, COMPLETE (for SERVICE) (DZ170/DZ171)	
208	A-1746-805-A	MAIN BOARD, COMPLETE (for SERVICE) (DZ510)	
208	A-1746-806-A	MAIN BOARD, COMPLETE (for SERVICE) (DZ610:E3,E15)	
208	A-1746-807-A	MAIN BOARD, COMPLETE (for SERVICE) (DZ610:SP)	
208	A-1746-813-A	MAIN BOARD, COMPLETE (for SERVICE) (DZ810:E3,E15)	
208	A-1746-814-A	MAIN BOARD, COMPLETE (for SERVICE) (DZ810:EA)	
208	A-1746-815-A	MAIN BOARD, COMPLETE (for SERVICE) (DZ810:SP)	
208	A-1746-818-A	MAIN BOARD, COMPLETE (for SERVICE) (DZ810:E32)	
208	A-1758-220-A	MAIN BOARD, COMPLETE (for SERVICE) (DZ310:E12)	
208	A-1758-231-A	MAIN BOARD, COMPLETE (for SERVICE) (DZ610:E12)	
208	A-1760-259-A	MAIN BOARD, COMPLETE (for SERVICE) (DZ310:E32)	
208	A-1760-292-A	MAIN BOARD, COMPLETE (for SERVICE) (DZ810:E12)	
209	3-077-331-11	+BV3 (3-CR)	
F901	1-533-311-12	FUSE, GLASS (DIA. 5) (8A/125V) (US,CND)	
F901	1-576-232-51	FUSE (H.B.C.) (5A/250V) (E3,E12,SP,E15,EA)	
F901	1-576-233-51	FUSE (H.B.C.) (6.3A/250V) (E32)	

6-6. DVD MECHANISM DECK SECTION (CDM85MB-DVBU102)



Note: If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

Ref. No.	Part No.	Description	Remark
251	A-1749-923-A	CDM85 (MB) ASSY	
252	3-088-371-01	BELT	
253	4-974-725-11	SCREW (M1.7X2.5), P	
254	4-674-137-11	SCREW (PTP2X5)	
255	2-634-618-01	INSULATOR	
256	3-087-599-01	SCREW, INSULATOR	
⚠ 257	8-820-321-12	OPTICAL PICK-UP (KHM-313CAA/C2RP1)	
258	1-828-773-51	WIRE (FLAT TYPE) (24 CORE)	
259	3-113-851-01	SHEET (E12)	

SECTION 7
ELECTRICAL PARTS LIST

ENCODER FL

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
  CND : Canadian model
  E3 : 240V AC area in E model
  E12 : 220 – 240V AC area in E model
  E15 : Iranian model
  E32 : 110 – 240V AC area in E model
  EA : Saudi Arabia model
  SP : Singapore model

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

The components identified by mark 🔒 contain confidential information.
Strictly follow the instructions whenever the components are repaired and/or replaced.

Les composants identifiés par la marque 🔒 contiennent des informations confidentielles.
Suivre scrupuleusement les instructions chaque fois qu'un composant est remplacé et / ou réparé.

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.

Ref. No.	Part No.	Description			Remark
		ENCODER BOARD			
		**********			
		< CAPACITOR >			
C5029	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5030	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< DIODE >			
D5004	6-502-469-01	LED SLI-325URT31WR (REC TO USB)			
		< TRANSISTOR >			
Q5002	8-729-028-96	TRANSISTOR DTC114EUA-T106			
		< RESISTOR >			
R5013	1-216-811-11	METAL CHIP	150	5%	1/10W
R5025	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5026	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5027	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5028	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
		< SWITCH >			
S5001	1-762-875-21	SWITCH, KEYBOARD (REC TO USB)			
		< ROTARY ENCODER >			
S5002	1-480-136-11	ENCODER, ROTARY (12 TYPE) (MASTER VOLUME)			
**********					
	A-1746-404-A	FL BOARD, COMPLETE (DZ310/DZ510/DZ610/DZ810)			
	A-1746-473-A	FL BOARD, COMPLETE (DZ170/DZ171/DZ175)			
		**********			
		< CAPACITOR >			
C5001	1-100-909-11	CERAMIC CHIP	10uF	10%	6.3V
C5003	1-126-382-11	ELECT	100uF	20%	16V
C5004	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5005	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C5006	1-163-037-11	CERAMIC CHIP	0.022uF	10%	50V
C5007	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C5008	1-119-943-11	ELECT	47uF	20%	50V
C5009	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C5010	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5011	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5012	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C5013	1-126-157-11	ELECT	10uF	20%	16V
C5014	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5022	1-126-157-11	ELECT	10uF	20%	16V
C5023	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5026	1-115-156-11	CERAMIC CHIP	1uF		10V
C5027	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
		< CONNECTOR >			
* CN5001	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN5002	1-779-552-21	CONNECTOR, FFC (LIF (NON-ZIF)) 15P (DZ310/DZ510/DZ610/DZ810)			
CN5005	1-779-550-21	CONNECTOR, FFC (LIF (NON-ZIF)) 13P (DZ170/DZ171/DZ175)			
CN5006	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P (DZ170/DZ171/DZ175)			
CN5007	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P (DZ310/DZ510/DZ610/DZ810)			
		< DIODE >			
D5001	6-500-848-01	DIODE MC2840-T112-1			
D5002	6-500-848-01	DIODE MC2840-T112-1			
D5003	6-501-729-01	DIODE MAZ8051GLLS0			
D5005	6-501-817-01	DIODE MA2J1110GLS0			
D5006	6-500-848-01	DIODE MC2840-T112-1			
		< IC >			
IC5001	6-702-302-01	IC TK11133CSCL-G			
IC5002	6-713-497-01	IC HT16515			
IC5003	6-600-767-01	IC PNA4823M02S0 (IR)			
		< JUMPER RESISTOR >			
JR5001	1-216-296-11	SHORT CHIP	0		
		< COIL >			
L5001	1-410-671-31	INDUCTOR	47uH		
L5002	1-410-671-31	INDUCTOR	47uH		
L5003	1-410-671-31	INDUCTOR	47uH		
		< FLUORESCENT INDICATOR TUBE >			
ND5001	1-483-107-21	FLUORESCENT INDICATOR TUBE			
		< TRANSISTOR >			
Q5001	6-550-065-01	TRANSISTOR CPH5504-TL-E			

FL IO

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R5001	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R5002	1-216-839-11	METAL CHIP	33K	5%	1/10W
R5003	1-216-805-11	METAL CHIP	47	5%	1/10W
R5004	1-216-805-11	METAL CHIP	47	5%	1/10W
R5005	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R5006	1-216-813-11	METAL CHIP	220	5%	1/10W
R5007	1-216-813-11	METAL CHIP	220	5%	1/10W
R5008	1-216-813-11	METAL CHIP	220	5%	1/10W
R5009	1-216-813-11	METAL CHIP	220	5%	1/10W
R5010	1-216-813-11	METAL CHIP	220	5%	1/10W
R5011	1-216-813-11	METAL CHIP	220	5%	1/10W
R5012	1-216-844-11	METAL CHIP	82K	5%	1/10W
R5014	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5015	1-216-809-11	METAL CHIP	100	5%	1/10W
R5016	1-216-809-11	METAL CHIP	100	5%	1/10W
R5017	1-216-809-11	METAL CHIP	100	5%	1/10W
R5018	1-216-805-11	METAL CHIP	47	5%	1/10W
R5019	1-216-835-11	METAL CHIP	15K	5%	1/10W
R5020	1-216-834-11	METAL CHIP	12K	5%	1/10W
R5023	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5024	1-216-837-11	METAL CHIP	22K	5%	1/10W
		< TRANSFORMER >			
T5001	1-443-645-11	TRANSFORMER, DC CONVERTER			
**********					
	A-1746-407-A	IO BOARD, COMPLETE (DZ310/DZ510)			
	A-1746-494-A	IO BOARD, COMPLETE (DZ170/DZ171/DZ175)			
	A-1746-535-A	IO BOARD, COMPLETE (DZ610)			
	A-1746-740-A	IO BOARD, COMPLETE (DZ810)			
		**********			
		< CAPACITOR >			
C4001	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4002	1-126-933-11	ELECT	100uF	20%	16V
C4006	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4007	1-126-933-11	ELECT	100uF	20%	16V
C4009	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C4016	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4018	1-126-916-11	ELECT	1000uF	20%	6.3V
C4019	1-126-965-91	ELECT	22uF	20%	50V
C4021	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C4023	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4025	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4026	1-126-933-11	ELECT	100uF	20%	16V
C4027	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C4028	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C4030	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C4031	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C4032	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C4033	1-104-662-91	ELECT	22uF	20%	25V
C4035	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C4036	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C4038	1-104-662-91	ELECT	22uF	20%	25V
C4040	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C4041	1-104-662-91	ELECT	22uF	20%	25V
C4042	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C4043	1-104-662-91	ELECT	22uF	20%	25V

Ref. No.	Part No.	Description			Remark
C4045	1-126-957-11	ELECT	0.22uF	20%	50V (DZ310/DZ510/DZ610/DZ810)
C4046	1-126-933-11	ELECT	100uF	20%	16V
C4047	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4049	1-126-960-11	ELECT	1uF	20%	50V (DZ310/DZ510/DZ610/DZ810)
C4050	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
C4051	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (DZ310/DZ510/DZ610/DZ810)
C4052	1-126-933-11	ELECT	100uF	20%	16V (DZ310/DZ510/DZ610/DZ810)
C4053	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4054	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
C4055	1-104-662-91	ELECT	22uF	20%	25V
C4056	1-104-662-91	ELECT	22uF	20%	25V
C4061	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V (DZ310/DZ510/DZ610/DZ810)
C4062	1-162-923-11	CERAMIC CHIP	47PF	5%	50V (DZ310/DZ510/DZ610/DZ810)
C4063	1-126-964-11	ELECT	10uF	20%	50V (DZ310/DZ510/DZ610/DZ810)
C4064	1-126-933-11	ELECT	100uF	20%	16V
C4065	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V (DZ310/DZ510/DZ610/DZ810)
C4067	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4070	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V (DZ310/DZ510/DZ610/DZ810)
C4071	1-126-963-11	ELECT	4.7uF	20%	50V (DZ310/DZ510/DZ610/DZ810)
C4075	1-126-963-11	ELECT	4.7uF	20%	50V (DZ310/DZ510/DZ610/DZ810)
C4076	1-126-964-11	ELECT	10uF	20%	50V (DZ310/DZ510/DZ610/DZ810)
C4077	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V (DZ310/DZ510/DZ610/DZ810)
C4078	1-126-933-11	ELECT	100uF	20%	16V (DZ310/DZ510/DZ610/DZ810)
C4079	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (DZ310/DZ510/DZ610/DZ810)
C4081	1-126-963-11	ELECT	4.7uF	20%	50V (DZ310/DZ510/DZ610/DZ810)
C4084	1-126-916-11	ELECT	1000uF	20%	6.3V
		< CONNECTOR >			
CN4002	1-779-277-11	CONNECTOR, FFC (LIF (NON-ZIF)) 9P			
CN4004	1-779-285-11	CONNECTOR, FFC (LIF (NON-ZIF)) 17P			(DZ170/DZ171/DZ175)
CN4005	1-779-287-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P			(DZ310/DZ510/DZ610/DZ810)
CN4007	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			(DZ170/DZ171/DZ175)
CN4008	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			(DZ310/DZ510/DZ610/DZ810)
CN4010	1-784-770-11	CONNECTOR, FFC 9P			
		< DIODE >			
D4002	6-500-848-01	DIODE MC2840-T112-1			
D4006	6-501-728-01	DIODE MAZ8051G0LS0			(DZ310/DZ510/DZ610/DZ810)
		< IC >			
IC4000	6-710-470-01	IC MM1758AFBE			
IC4001	6-705-337-01	IC TK11150CSCL-G			

IO JACK

Ref. No.	Part No.	Description	Remark
IC4003	8-759-430-37	IC MC14052BDTR2	
IC4004	6-706-078-01	IC M62429FP-TP (DZ310/DZ510/DZ610/DZ810)	
IC4005	6-712-744-01	IC TK11190CSCL-G	
IC4006	6-713-989-01	IC NJM2783V(TE2) (DZ310/DZ510/DZ610/DZ810)	
		< JACK >	
J4000	1-822-283-11	JACK, PIN 3P (COMPONENT VIDEO OUT)	
J4001	1-822-280-11	JACK, PIN 3P (VIDEO OUT, TV/CABLE (AUDIO IN R/L)) (DZ170/DZ171/DZ175)	
J4001	1-822-280-11	JACK, PIN 3P (VIDEO OUT, TV (AUDIO IN R/L)) (DZ310/DZ510/DZ610/DZ810)	
		< COIL >	
L4000	1-469-525-91	INDUCTOR 10uH	
L4001	1-469-525-91	INDUCTOR 10uH (DZ310/DZ510/DZ610/DZ810)	
		< TRANSISTOR >	
Q4006	6-552-200-01	FET RT3N22M-T111-1	
Q4007	6-552-200-01	FET RT3N22M-T111-1 (DZ310/DZ510/DZ610/DZ810)	
		< RESISTOR >	
R4013	1-218-827-11	METAL CHIP 150 0.5% 1/10W	
R4015	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4016	1-218-285-11	METAL CHIP 75 5% 1/10W	
R4017	1-218-827-11	METAL CHIP 150 0.5% 1/10W	
R4018	1-216-864-11	SHORT CHIP 0	
R4020	1-218-285-11	METAL CHIP 75 5% 1/10W	
R4024	1-218-827-11	METAL CHIP 150 0.5% 1/10W	
R4027	1-218-285-11	METAL CHIP 75 5% 1/10W	
R4028	1-216-864-11	SHORT CHIP 0	
R4030	1-218-285-11	METAL CHIP 75 5% 1/10W	
R4031	1-218-827-11	METAL CHIP 150 0.5% 1/10W	
R4032	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R4033	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R4034	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R4035	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R4036	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R4037	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R4038	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R4041	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R4042	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R4046	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R4047	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R4048	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R4049	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R4050	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R4051	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R4053	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R4054	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R4055	1-216-864-11	SHORT CHIP 0	
R4056	1-216-864-11	SHORT CHIP 0 (DZ310/DZ510/DZ610/DZ810)	
R4057	1-216-864-11	SHORT CHIP 0 (DZ310/DZ510/DZ610/DZ810)	
R4058	1-216-864-11	SHORT CHIP 0	
R4060	1-216-833-11	METAL CHIP 10K 5% 1/10W (DZ310/DZ510/DZ610/DZ810)	
R4062	1-216-830-11	METAL CHIP 5.6K 5% 1/10W (DZ310/DZ510/DZ610/DZ810)	
R4063	1-216-864-11	SHORT CHIP 0	

Ref. No.	Part No.	Description	Remark
R4064	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4065	1-216-864-11	SHORT CHIP 0	
R4066	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4067	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R4068	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R4069	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R4070	1-216-809-11	METAL CHIP 100 5% 1/10W (DZ310/DZ510/DZ610/DZ810)	
R4071	1-216-809-11	METAL CHIP 100 5% 1/10W (DZ310/DZ510/DZ610/DZ810)	
R4072	1-216-833-11	METAL CHIP 10K 5% 1/10W (DZ310/DZ510/DZ610/DZ810)	
R4073	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4074	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4075	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4076	1-216-833-11	METAL CHIP 10K 5% 1/10W (DZ310/DZ510/DZ610/DZ810)	
R4077	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4079	1-216-833-11	METAL CHIP 10K 5% 1/10W (DZ310/DZ510/DZ610/DZ810)	
R4080	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R4081	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R4082	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R4083	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R4084	1-216-833-11	METAL CHIP 10K 5% 1/10W (DZ310/DZ510/DZ610/DZ810)	
R4085	1-216-864-11	SHORT CHIP 0 (DZ310/DZ510/DZ610/DZ810)	
R4086	1-216-864-11	SHORT CHIP 0 (DZ310/DZ510/DZ610/DZ810)	
R4087	1-216-864-11	SHORT CHIP 0	
R4088	1-216-864-11	SHORT CHIP 0	
R4089	1-216-864-11	SHORT CHIP 0	
R4090	1-216-841-11	METAL CHIP 47K 5% 1/10W (DZ310/DZ510/DZ610/DZ810)	
R4091	1-216-821-11	METAL CHIP 1K 5% 1/10W (DZ310/DZ510/DZ610/DZ810)	
R4092	1-216-864-11	SHORT CHIP 0	
R4093	1-216-864-11	SHORT CHIP 0	
R4094	1-216-864-11	SHORT CHIP 0	
R4095	1-216-864-11	SHORT CHIP 0	
R4096	1-216-864-11	SHORT CHIP 0	
R4097	1-216-857-11	METAL CHIP 1M 5% 1/10W (DZ310/DZ510/DZ610/DZ810)	
R4100	1-216-833-11	METAL CHIP 10K 5% 1/10W (DZ310/DZ510/DZ610/DZ810)	
R4105	1-216-839-11	METAL CHIP 33K 5% 1/10W (DZ310/DZ510/DZ610/DZ810)	
R4106	1-216-834-11	METAL CHIP 12K 5% 1/10W (DZ310/DZ510/DZ610/DZ810)	
R4107	1-216-829-11	METAL CHIP 4.7K 5% 1/10W (DZ310/DZ510/DZ610/DZ810)	
⚠ R4113	1-215-865-11	METAL OXIDE 220 5% 1W F (DZ310/DZ510/DZ610/DZ810)	
R4115	1-216-864-11	SHORT CHIP 0	

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JACK BOARD
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< CAPACITOR >

C5101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5102	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5103	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5104	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5106	1-124-584-00	ELECT	100uF	20%	6.3V

JACK **KEY-SW**

Ref. No.	Part No.	Description			Remark
C5107	1-126-157-11	ELECT	10uF	20%	16V
C5108	1-126-157-11	ELECT	10uF	20%	16V
C5109	1-126-157-11	ELECT	10uF	20%	16V
C5112	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C5116	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C5117	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C5118	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C5119	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C5120	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C5121	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C5122	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C5123	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C5124	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C5125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5127	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5128	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5129	1-124-584-00	ELECT	100uF	20%	6.3V
C5130	1-124-584-00	ELECT	100uF	20%	10V
C5131	1-124-589-11	ELECT	47uF	20%	16V
		< DIODE >			
D5101	6-500-848-01	DIODE MC2840-T112-1			
		< FERRITE BEAD >			
FB5101	1-500-236-22	BEAD, FERRITE (CHIP) (1608)			
FB5102	1-500-236-22	BEAD, FERRITE (CHIP) (1608)			
FB5103	1-500-236-22	BEAD, FERRITE (CHIP) (1608)			
		< IC >			
IC5101	8-759-100-96	IC uPC4558G2			
IC5102	8-759-100-96	IC uPC4558G2			
		< JACK >			
J5101	1-819-878-31	JACK (A.CAL MIC)			
J5102	1-819-878-31	JACK (AUDIO IN)			
		< TRANSISTOR >			
Q5101	8-729-620-13	TRANSISTOR 2SC4154TP-1EF (DZ310/DZ510/DZ610/DZ810)			
Q5102	8-729-028-73	TRANSISTOR DTA114EUA-T106 (DZ310/DZ510/DZ610/DZ810)			
		< RESISTOR >			
R5101	1-216-833-11	METAL CHIP	10K	5%	1/10W (DZ310/DZ510/DZ610/DZ810)
R5105	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5106	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R5107	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5108	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5109	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5110	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5111	1-216-817-11	METAL CHIP	470	5%	1/10W
R5112	1-216-817-11	METAL CHIP	470	5%	1/10W
R5113	1-216-817-11	METAL CHIP	470	5%	1/10W
R5115	1-216-864-11	SHORT CHIP	0		
R5116	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5117	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5118	1-216-835-11	METAL CHIP	15K	5%	1/10W
R5119	1-216-837-11	METAL CHIP	22K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R5120	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5121	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5122	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5123	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5124	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5125	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5126	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5127	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5128	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5129	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R5130	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5131	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R5132	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5134	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5135	1-216-864-11	SHORT CHIP	0 (DZ170/DZ171/DZ175)		

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	A-1746-218-A	KEY-SW BOARD, COMPLETE	
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		< CONNECTOR >	
* CN5201	1-580-055-21	PIN, CONNECTOR (SMD) 2P	
CN5202	1-580-057-11	PIN, CONNECTOR (SMD) 4P	
		< RESISTOR >	
R5201	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5202	1-216-809-11	METAL CHIP	100 5% 1/10W
R5203	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5204	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
		< SWITCH >	
S5201	1-786-650-21	SWITCH, TACTILE (■)	
S5202	1-786-650-21	SWITCH, TACTILE (►)	
S5203	1-786-650-21	SWITCH, TACTILE (⏏)	
S5204	1-786-650-21	SWITCH, TACTILE (FUNCTION)	

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Ref. No.	Part No.	Description	Remark
	A-1746-794-A	MAIN BOARD, COMPLETE (for SERVICE)	(DZ310:E3)
	A-1746-795-A	MAIN BOARD, COMPLETE (for SERVICE)	(DZ310:SP)
	A-1746-801-A	MAIN BOARD, COMPLETE (for SERVICE)	(DZ175)
	A-1746-802-A	MAIN BOARD, COMPLETE (for SERVICE)	(DZ170/DZ171)
	A-1746-805-A	MAIN BOARD, COMPLETE (for SERVICE) (DZ510)	
	A-1746-806-A	MAIN BOARD, COMPLETE (for SERVICE)	(DZ610:E3,E15)
	A-1746-807-A	MAIN BOARD, COMPLETE (for SERVICE)	(DZ610:SP)
	A-1746-813-A	MAIN BOARD, COMPLETE (for SERVICE)	(DZ810:E3,E15)
	A-1746-814-A	MAIN BOARD, COMPLETE (for SERVICE)	(DZ810:EA)
	A-1746-815-A	MAIN BOARD, COMPLETE (for SERVICE)	(DZ810:SP)
	A-1746-818-A	MAIN BOARD, COMPLETE (for SERVICE)	(DZ810:E32)
	A-1758-220-A	MAIN BOARD, COMPLETE (for SERVICE)	(DZ310:E12)
	A-1758-231-A	MAIN BOARD, COMPLETE (for SERVICE)	(DZ610:E12)
	A-1760-259-A	MAIN BOARD, COMPLETE (for SERVICE)	(DZ310:E32)
	A-1760-292-A	MAIN BOARD, COMPLETE (for SERVICE)	(DZ810:E12)
		**********	
		< CAPACITOR >	
C303	1-100-742-91	CERAMIC CHIP 2.2uF 20% 10V	
C304	1-126-923-91	ELECT 220uF 20% 10V	
C305	1-100-742-91	CERAMIC CHIP 2.2uF 20% 10V	
C308	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C309	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C310	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C311	1-126-964-11	ELECT 10uF 20% 50V	
C313	1-126-964-11	ELECT 10uF 20% 50V	
C314	1-126-964-11	ELECT 10uF 20% 50V	
C315	1-126-923-91	ELECT 220uF 20% 10V	
C316	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C317	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C318	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C319	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C320	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C321	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C323	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C325	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C326	1-162-912-11	CERAMIC CHIP 7PF 0.5PF 50V	
C327	1-162-912-11	CERAMIC CHIP 7PF 0.5PF 50V	
C329	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C333	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C334	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C471	1-104-658-91	ELECT 100uF 20% 10V	
C476	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C501	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	(DZ170/DZ171/DZ175)
C504	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	(EXCEPT DZ310)
C505	1-104-658-91	ELECT 100uF 20% 10V	(EXCEPT DZ310)
C507	1-104-658-91	ELECT 100uF 20% 10V	(DZ170/DZ171/DZ175)
C508	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	(DZ170/DZ171/DZ175)
C509	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C511	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C512	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C513	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C514	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C515	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C516	1-165-908-11	CERAMIC CHIP 1uF 10% 10V	
C517	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C518	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C519	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C520	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C521	1-165-908-11	CERAMIC CHIP 1uF 10% 10V	
C522	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C523	1-127-715-11	CERAMIC CHIP 0.22uF 10% 16V	
C524	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C525	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C527	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
C528	1-104-656-11	ELECT 2200uF 20% 6.3V	
C529	1-104-658-91	ELECT 100uF 20% 10V	
C530	1-165-908-11	CERAMIC CHIP 1uF 10% 10V	
C531	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C532	1-126-933-11	ELECT 100uF 20% 16V	
C536	1-104-655-91	ELECT 470uF 20% 6.3V	
C537	1-104-658-91	ELECT 100uF 20% 10V	
C538	1-165-908-11	CERAMIC CHIP 1uF 10% 10V	
C539	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C540	1-126-933-11	ELECT 100uF 20% 16V	
C541	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C543	1-126-965-91	ELECT 22uF 20% 50V	
C545	1-104-658-91	ELECT 100uF 20% 10V	
C546	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C550	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C552	1-126-933-11	ELECT 100uF 20% 16V	
C553	1-126-935-11	ELECT 470uF 20% 16V	
C554	1-162-923-11	CERAMIC CHIP 47PF 5% 50V	
C555	1-164-315-11	CERAMIC CHIP 470PF 5% 50V	
C556	1-164-315-11	CERAMIC CHIP 470PF 5% 50V	
C701	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	(DZ310/DZ510/DZ610/DZ810)
C705	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	(DZ310/DZ510/DZ610/DZ810)
C706	1-165-708-11	ELECT CHIP 47uF 20% 6.3V	(DZ310/DZ510/DZ610/DZ810)
C707	1-165-908-11	CERAMIC CHIP 1uF 10% 10V	(DZ310/DZ510/DZ610/DZ810)
C708	1-165-908-11	CERAMIC CHIP 1uF 10% 10V	(DZ310/DZ510/DZ610/DZ810)
C1101	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C1102	1-165-908-11	CERAMIC CHIP 1uF 10% 10V	
C1105	1-126-947-11	ELECT 47uF 20% 35V	
C1106	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C1108	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C1109	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C1110	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C1111	1-104-658-91	ELECT 100uF 20% 10V	
C1112	1-126-947-11	ELECT 47uF 20% 35V	
C1113	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C1114	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	

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Ref. No.	Part No.	Description			Remark
C1115	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1117	1-126-947-11	ELECT	47uF	20%	35V
C1118	1-126-947-11	ELECT	47uF	20%	35V
C1119	1-126-947-11	ELECT	47uF	20%	35V
C1120	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1121	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1122	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1123	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1124	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1127	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1129	1-100-909-11	CERAMIC CHIP	10uF	10%	6.3V
C1130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1135	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C1136	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1137	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1138	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1139	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1140	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1144	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1145	1-126-964-11	ELECT	10uF	20%	50V
C1146	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1147	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C1148	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C1149	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1151	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1152	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C1153	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C1154	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1155	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1158	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1159	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1161	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1162	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1163	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1164	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1165	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1169	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1170	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C1171	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1172	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1174	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1175	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1176	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1177	1-126-923-91	ELECT	220uF	20%	10V
C1179	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1180	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1181	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1182	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1183	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C1184	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1186	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1187	1-126-947-11	ELECT	47uF	20%	35V
C1190	1-104-658-91	ELECT	100uF	20%	10V

Ref. No.	Part No.	Description			Remark
C1191	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1192	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1193	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1195	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1197	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1198	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1199	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1503	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1504	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1505	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1506	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C1507	1-126-964-11	ELECT	10uF	20%	50V
C1508	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1509	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1510	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1511	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1512	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1514	1-126-964-11	ELECT	10uF	20%	50V
C1516	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1518	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1520	1-126-947-11	ELECT	47uF	20%	35V
C1522	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V
C1523	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1524	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C1525	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C1601	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (DZ170/DZ171/DZ175)
C1602	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (DZ170/DZ171/DZ175)
C1725	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1727	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1729	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1730	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1731	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1732	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1733	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1734	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1735	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (DZ310/DZ510/DZ610/DZ810)
C2100	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C2102	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2108	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C2109	1-104-658-91	ELECT	100uF	20%	10V
C2110	1-104-658-91	ELECT	100uF	20%	10V
C2112	1-126-923-91	ELECT	220uF	20%	10V
C2114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2115	1-100-909-11	CERAMIC CHIP	10uF	10%	6.3V
C2116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2117	1-100-909-11	CERAMIC CHIP	10uF	10%	6.3V
C2118	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2119	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C2130	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C2502	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V
C2503	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C3000	1-126-933-11	ELECT	100uF	20%	16V
C3001	1-126-947-11	ELECT	47uF	20%	35V
C3002	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C3003	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3005	1-126-964-11	ELECT	10uF	20%	50V
C3010	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

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Ref. No.	Part No.	Description			Remark
C3011	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3012	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3013	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3014	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3015	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3016	1-165-726-31	ELECT	56uF	20%	16V
C3017	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3018	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3019	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3020	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3021	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3022	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3023	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3024	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3025	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3026	1-126-947-11	ELECT	47uF	20%	35V
C3027	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3028	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3029	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3030	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3031	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3032	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3033	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3034	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3035	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3036	1-165-726-31	ELECT	56uF	20%	16V
C3037	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3038	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3039	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3051	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3052	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C3054	1-104-658-91	ELECT	100uF	20%	10V
C3055	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C3056	1-126-923-91	ELECT	220uF	20%	10V
C3057	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3058	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C3060	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C3071	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3091	1-126-934-11	ELECT	220uF	20%	16V
C3100	1-112-831-31	ELECT	2200uF	20%	35V
C3102	1-114-885-51	FILM	1uF	5%	50V
C3103	1-112-246-11	ELECT	100uF	20%	35V
C3104	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3105	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C3106	1-114-869-11	CERAMIC CHIP	2.2uF	10%	6.3V
C3109	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3110	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3111	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3112	1-114-885-51	FILM	1uF	5%	50V
C3113	1-112-246-11	ELECT	100uF	20%	35V
C3114	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3115	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C3121	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3122	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3123	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3150	1-112-831-31	ELECT	2200uF	20%	35V
C3152	1-114-885-51	FILM	1uF	5%	50V
C3153	1-112-246-11	ELECT	100uF	20%	35V
C3154	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3155	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C3156	1-114-869-11	CERAMIC CHIP	2.2uF	10%	6.3V
C3159	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3160	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3161	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3162	1-114-885-51	FILM	1uF	5%	50V
C3163	1-112-246-11	ELECT	100uF	20%	35V
C3164	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3165	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C3200	1-112-831-31	ELECT	2200uF	20%	35V
C3202	1-114-885-51	FILM	1uF	5%	50V
C3203	1-112-246-11	ELECT	100uF	20%	35V
C3204	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3205	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C3206	1-114-869-11	CERAMIC CHIP	2.2uF	10%	6.3V
C3207	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3208	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3209	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3210	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3211	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3212	1-114-885-51	FILM	1uF	5%	50V
C3213	1-112-246-11	ELECT	100uF	20%	35V
C3214	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3215	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C3221	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3222	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3223	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3250	1-112-831-31	ELECT	2200uF	20%	35V
C3252	1-114-885-51	FILM	1uF	5%	50V
C3253	1-112-246-11	ELECT	100uF	20%	35V
C3254	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3255	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C3256	1-114-869-11	CERAMIC CHIP	2.2uF	10%	6.3V
C3257	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3258	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3259	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3260	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3261	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3262	1-114-885-51	FILM	1uF	5%	50V
C3263	1-112-246-11	ELECT	100uF	20%	35V
C3264	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3265	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C3300	1-112-831-31	ELECT	2200uF	20%	35V
C3302	1-114-885-51	FILM	1uF	5%	50V
C3303	1-112-246-11	ELECT	100uF	20%	35V
C3304	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3305	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C3306	1-100-909-11	CERAMIC CHIP	10uF	10%	6.3V
C3309	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3310	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3311	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3312	1-114-885-51	FILM	1uF	5%	50V
C3313	1-112-246-11	ELECT	100uF	20%	35V
C3314	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3315	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C3321	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3322	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3323	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3400	1-112-831-31	ELECT	2200uF	20%	35V
C3402	1-114-885-51	FILM	1uF	5%	50V
C3403	1-112-246-11	ELECT	100uF	20%	35V

MAIN

Ref. No.	Part No.	Description			Remark
C3404	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3405	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C3406	1-114-869-11	CERAMIC CHIP	2.2uF	10%	6.3V
C3409	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3410	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3411	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3412	1-114-885-51	FILM	1uF	5%	50V
C3413	1-112-246-11	ELECT	100uF	20%	35V
C3414	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3415	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C3551	1-115-871-11	ELECT	1uF	20%	50V
C3552	1-126-964-11	ELECT	10uF	20%	50V
C3553	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3556	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3561	1-126-947-11	ELECT	47uF	20%	35V
C3901	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3902	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3903	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3904	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3905	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3906	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3907	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3908	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3911	1-114-323-11	CERAMIC CHIP	0.01uF	10%	50V
C3912	1-114-323-11	CERAMIC CHIP	0.01uF	10%	50V
C3913	1-114-323-11	CERAMIC CHIP	0.01uF	10%	50V
C3914	1-114-323-11	CERAMIC CHIP	0.01uF	10%	50V
C3915	1-114-323-11	CERAMIC CHIP	0.01uF	10%	50V
C3916	1-114-323-11	CERAMIC CHIP	0.01uF	10%	50V
C3917	1-114-323-11	CERAMIC CHIP	0.01uF	10%	50V
C3918	1-114-323-11	CERAMIC CHIP	0.01uF	10%	50V
		< CONNECTOR >			
CN306	1-779-281-11	CONNECTOR, FFC (LIF (NON-ZIF)) 13P (DZ810)			
CN472	1-820-112-41	CONNECTOR, FFC/FPC 9P			
CN503	1-820-116-41	CONNECTOR, FFC/FPC 17P (DZ170/DZ171/DZ175)			
CN504	1-820-117-41	CONNECTOR, FFC/FPC 19P (DZ310/DZ510/DZ610/DZ810)			
CN506	1-820-115-41	CONNECTOR, FFC/FPC 15P (DZ310/DZ510/DZ610/DZ810)			
CN507	1-785-468-41	CONNECTOR, FFC/FPC 13P (DZ170/DZ171/DZ175)			
CN508	1-784-861-51	CONNECTOR, FFC (LIF (NON-ZIF)) 9P			
CN510	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN1101	1-815-763-32	CONNECTOR, FFC/FPC 24P			
CN1105	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P			
CN1501	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P			
CN1502	1-779-273-11	CONNECTOR, FFC (LIF (NON-ZIF)) 5P			
CN1701	(Not supplied)	CONNECTOR, HDMI 19P (HDMI OUT) (DZ170/DZ171/DZ175)			
CN1701	(Not supplied)	CONNECTOR, HDMI 19P (HDMI OUT (ARC)) (DZ310/DZ510/DZ610/DZ810)			
CN2101	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
CN3000	1-564-704-41	PIN, CONNECTOR (SMALL TYPE) 2P			
		< DIODE >			
D502	6-501-817-01	DIODE MA2J1110GLS0			
D503	6-501-817-01	DIODE MA2J1110GLS0			
D505	6-501-817-01	DIODE MA2J1110GLS0			
D2101	6-501-749-01	DIODE MAZ8082G0LS0			

Ref. No.	Part No.	Description	Remark
D2102	6-501-592-01	DIODE EDZCTE616.8B	
D2103	6-501-592-01	DIODE EDZCTE616.8B	
D3071	6-500-335-01	DIODE MC2838-T112-1	
D3072	6-501-817-01	DIODE MA2J1110GLS0	
D3101	6-501-696-01	DIODE RSA39LTE25	
D3102	6-501-696-01	DIODE RSA39LTE25	
D3151	6-501-696-01	DIODE RSA39LTE25	
D3152	6-501-696-01	DIODE RSA39LTE25	
D3201	6-501-696-01	DIODE RSA39LTE25	
D3202	6-501-696-01	DIODE RSA39LTE25	
D3251	6-501-696-01	DIODE RSA39LTE25	
D3252	6-501-696-01	DIODE RSA39LTE25	
D3301	6-501-696-01	DIODE RSA39LTE25	
D3302	6-501-696-01	DIODE RSA39LTE25	
D3401	6-501-696-01	DIODE RSA39LTE25	
D3402	6-501-696-01	DIODE RSA39LTE25	
D3551	6-500-848-01	DIODE MC2840-T112-1	
D9712	6-501-817-01	DIODE MA2J1110GLS0	
		< FERRITE BEAD >	
FB472	1-469-094-21	FERRITE, EMI (SMD) (1608) (DZ810)	
FB473	1-469-094-21	FERRITE, EMI (SMD) (1608) (DZ810)	
* FB1106	1-400-973-21	INDUCTOR (EMI FERRITE)	
* FB1107	1-400-973-21	INDUCTOR (EMI FERRITE)	
* FB1108	1-400-973-21	INDUCTOR (EMI FERRITE)	
* FB1109	1-400-973-21	INDUCTOR (EMI FERRITE)	
* FB1111	1-400-974-21	INDUCTOR (EMI FERRITE)	
* FB1112	1-400-974-21	INDUCTOR (EMI FERRITE)	
* FB1113	1-400-974-21	INDUCTOR (EMI FERRITE)	
* FB1115	1-400-974-21	INDUCTOR (EMI FERRITE)	
* FB1116	1-400-974-21	INDUCTOR (EMI FERRITE)	
* FB1117	1-400-974-21	INDUCTOR (EMI FERRITE)	
* FB1118	1-400-974-21	INDUCTOR (EMI FERRITE)	
* FB2101	1-400-973-21	INDUCTOR (EMI FERRITE)	
* FB2103	1-400-973-21	INDUCTOR (EMI FERRITE)	
FB2104	1-469-379-11	FERRITE, EMI (SMD) (2012)	
FB2105	1-469-379-11	FERRITE, EMI (SMD) (2012)	
FB2120	1-469-118-21	FERRITE, EMI (SMD) (1608)	
FB2121	1-469-118-21	FERRITE, EMI (SMD) (1608)	
FB2122	1-469-118-21	FERRITE, EMI (SMD) (1608)	
FB2125	1-469-118-21	FERRITE, EMI (SMD) (1608)	
		< IC >	
IC303	6-710-554-01	IC PCM1808PWR	
IC304	8-759-825-15	IC LC89056W-E	
IC307	8-759-680-48	IC TC7WH157FK(TE85R)	
IC471	6-707-853-01	IC TC74LCX541FT(EKJ)	
IC501	6-706-492-01	IC TC7SHU04FU(T5RSOJF) (DZ170/DZ171/DZ175)	
IC502	6-600-466-01	IC TORX147L(SONY) (TV/CABLE (DIGITAL IN OPTICAL)) (DZ170/DZ171/DZ175)	
IC502	6-600-466-01	IC TORX147L(SONY) (TV (DIGITAL IN OPTICAL)) (DZ510/DZ610/DZ810)	
IC503	A-1748-165-A	IC R5F364AEDFA (for SERVICE)	
IC504	6-705-338-01	IC TK11250CMCL-G	
IC506	6-705-203-01	IC S-80935CNMC-G85T2G	
IC507	(Not supplied)	IC MM1665AHBE	
IC509	6-712-613-01	IC SI-3010KM-TLS	
IC510	6-709-584-01	IC MM1663DHBE	

Note: When IC507 on the Main board is damaged, exchange the new Main board for the Main board which IC damaged.

MAIN

Ref. No.	Part No.	Description	Remark
IC701	6-709-888-01	IC TC7WHU04FK(T5RSOYF	(DZ310/DZ510/DZ610/DZ810)
IC1101	6-714-722-01	IC CXD9927R-B (DZ170/DZ171/DZ175)	
IC1101	6-714-723-01	IC CXD9917R-B (DZ310/DZ510/DZ610/DZ810)	
IC1102	6-715-100-01	IC MX29LV320DBTI-70-OHI-1001UC	(US,CND,E32)
IC1102	6-715-101-01	IC MX29LV320DBTI-70-OHI-1001CE	(E3,E12,E15,EA)
IC1102	6-715-102-01	IC MX29LV320DBTI-70-OHI-1001GA (SP)	
IC1103	(Not supplied)	IC BR24S64F-WE2	
IC1104	6-714-642-01	IC EM638165 TSA-6G	
IC1105	6-702-302-01	IC TK11133CSCL-G	
IC1107	6-702-302-01	IC TK11133CSCL-G	
IC1110	6-707-739-01	IC MM1661JTRE	
IC1501	(Not supplied)	IC BD8203EFV-E2	
IC1601	6-713-555-01	IC MFI341S2161 (DZ170/DZ171/DZ175)	
IC1705	8-759-592-47	IC TC7SZ08FU(TE85R)	
IC1707	6-705-337-01	IC TK11150CSCL-G	
IC1708	6-702-302-01	IC TK11133CSCL-G	
IC3010	6-705-979-01	IC CXD9788AR	
IC3020	6-705-979-01	IC CXD9788AR	
IC3030	6-705-979-01	IC CXD9788AR	
IC3050	6-714-743-01	IC MM3404A18URE	
IC3051	6-706-492-01	IC TC7SHU04FU(T5RSOJF)	
IC3100	6-714-477-01	IC CXD9981TN	
IC3200	6-714-477-01	IC CXD9981TN	
IC3300	6-714-477-01	IC CXD9981TN	
		< JACK >	
J501	1-822-282-11	JACK, PIN 1P (TV/CABLE (DIGITAL IN COAXIAL))	(DZ170/DZ171/DZ175)
		< COIL >	
L301	1-469-525-91	INDUCTOR 10uH	
L302	1-469-525-91	INDUCTOR 10uH	
L303	1-469-525-91	INDUCTOR 10uH	
L471	1-469-527-91	INDUCTOR 47uH	
L501	1-469-525-91	INDUCTOR 10uH (EXCEPT DZ310)	
L502	1-469-525-91	INDUCTOR 10uH (DZ170/DZ171/DZ175)	
L1701	1-457-374-21	COIL, COMMON MODE CHOKE	
L1702	1-457-374-21	COIL, COMMON MODE CHOKE	
L1703	1-457-374-21	COIL, COMMON MODE CHOKE	
L1704	1-457-374-21	COIL, COMMON MODE CHOKE	
L2101	1-457-374-21	COIL, COMMON MODE CHOKE	
L3000	1-469-527-91	INDUCTOR 47uH	
L3051	1-469-525-91	INDUCTOR 10uH	
L3052	1-469-525-91	INDUCTOR 10uH	
L3053	1-469-525-91	INDUCTOR 10uH	
L3101	1-457-579-11	COIL, CHOKE 10uH	
L3151	1-457-579-11	COIL, CHOKE 10uH	
L3201	1-457-579-11	COIL, CHOKE 10uH	
L3251	1-457-579-11	COIL, CHOKE 10uH	
L3301	1-457-579-11	COIL, CHOKE 10uH	
L3401	1-457-579-11	COIL, CHOKE 10uH	
L3901	1-457-078-11	COIL, AIR-CORE	
L3902	1-457-077-11	COIL, AIR-CORE	
L3903	1-457-078-11	COIL, AIR-CORE	
L3904	1-457-077-11	COIL, AIR-CORE	
L3905	1-457-078-11	COIL, AIR-CORE	
L3906	1-457-077-11	COIL, AIR-CORE	
L3907	1-457-078-11	COIL, AIR-CORE	
L3908	1-457-077-11	COIL, AIR-CORE	
		< TRANSISTOR >	
Q501	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q502	6-551-272-01	TRANSISTOR RT3CLLM	
Q1101	6-552-279-01	FET RT3K66M-T111-1	
Q1102	6-550-653-01	TRANSISTOR QST8TR	
Q1103	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q1701	6-552-279-01	FET RT3K66M-T111-1	
Q2101	6-551-272-01	TRANSISTOR RT3CLLM	
Q3000	8-729-111-29	TRANSISTOR 2SD1616A-K	
Q3001	6-551-272-01	TRANSISTOR RT3CLLM	
Q3101	6-551-271-01	TRANSISTOR RT3AMMM	
Q3151	6-551-271-01	TRANSISTOR RT3AMMM	
Q3201	6-551-271-01	TRANSISTOR RT3AMMM	
Q3202	6-551-271-01	TRANSISTOR RT3AMMM	
Q3301	6-551-271-01	TRANSISTOR RT3AMMM	
Q3401	6-551-271-01	TRANSISTOR RT3AMMM	
Q3551	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q3552	6-551-272-01	TRANSISTOR RT3CLLM	
Q9730	6-551-714-01	FET INK0001AC1-T112A-1	
		< RESISTOR >	
R301	1-216-809-11	METAL CHIP 100 5% 1/10W	(DZ810)
R302	1-216-809-11	METAL CHIP 100 5% 1/10W	(DZ810)
R303	1-216-809-11	METAL CHIP 100 5% 1/10W	(DZ810)
R304	1-216-809-11	METAL CHIP 100 5% 1/10W	(DZ810)
R305	1-216-809-11	METAL CHIP 100 5% 1/10W	(DZ810)
R306	1-216-809-11	METAL CHIP 100 5% 1/10W	(DZ810)
R307	1-216-809-11	METAL CHIP 100 5% 1/10W	(DZ810)
R308	1-216-809-11	METAL CHIP 100 5% 1/10W	(DZ810)
R309	1-216-809-11	METAL CHIP 100 5% 1/10W	(DZ810)
R310	1-216-809-11	METAL CHIP 100 5% 1/10W	(DZ810)
R316	1-216-801-11	METAL CHIP 22 5% 1/10W	
R317	1-216-801-11	METAL CHIP 22 5% 1/10W	
R318	1-216-801-11	METAL CHIP 22 5% 1/10W	
R319	1-216-801-11	METAL CHIP 22 5% 1/10W	
R329	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R330	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R331	1-216-805-11	METAL CHIP 47 5% 1/10W	
R332	1-216-805-11	METAL CHIP 47 5% 1/10W	
R333	1-216-864-11	SHORT CHIP 0	
R334	1-216-809-11	METAL CHIP 100 5% 1/10W	
R335	1-216-830-11	METAL CHIP 5.6K 5% 1/10W	
R337	1-216-809-11	METAL CHIP 100 5% 1/10W	(DZ170/DZ171/DZ175)
R338	1-216-809-11	METAL CHIP 100 5% 1/10W	(DZ170/DZ171/DZ175)
R340	1-216-809-11	METAL CHIP 100 5% 1/10W	
R341	1-216-809-11	METAL CHIP 100 5% 1/10W	(DZ310/DZ510/DZ610/DZ810)

Note: When IC1103 and IC1501 on the Main board are damaged, exchange the new Main board for the Main board which IC damaged.

MAIN

Ref. No.	Part No.	Description			Remark
R342	1-216-809-11	METAL CHIP	100	5%	1/10W (DZ510/DZ610/DZ810)
R359	1-216-864-11	SHORT CHIP	0		
R360	1-216-864-11	SHORT CHIP	0		
R363	1-216-833-11	METAL CHIP	10K	5%	1/10W
R365	1-216-833-11	METAL CHIP	10K	5%	1/10W (EA)
R368	1-216-809-11	METAL CHIP	100	5%	1/10W
R370	1-216-857-11	METAL CHIP	1M	5%	1/10W
R371	1-216-815-11	METAL CHIP	330	5%	1/10W
R373	1-216-809-11	METAL CHIP	100	5%	1/10W
R376	1-216-864-11	SHORT CHIP	0		
R392	1-216-833-11	METAL CHIP	10K	5%	1/10W
R393	1-216-833-11	METAL CHIP	10K	5%	1/10W
R394	1-216-809-11	METAL CHIP	100	5%	1/10W
R403	1-216-809-11	METAL CHIP	100	5%	1/10W (DZ810)
R409	1-216-809-11	METAL CHIP	100	5%	1/10W
R410	1-216-809-11	METAL CHIP	100	5%	1/10W
R412	1-216-809-11	METAL CHIP	100	5%	1/10W
R413	1-216-809-11	METAL CHIP	100	5%	1/10W
R471	1-216-864-11	SHORT CHIP	0		
R472	1-216-801-11	METAL CHIP	22	5%	1/10W
R473	1-216-801-11	METAL CHIP	22	5%	1/10W
R474	1-216-801-11	METAL CHIP	22	5%	1/10W
R479	1-216-805-11	METAL CHIP	47	5%	1/10W
R480	1-216-805-11	METAL CHIP	47	5%	1/10W
R481	1-216-805-11	METAL CHIP	47	5%	1/10W
R482	1-216-805-11	METAL CHIP	47	5%	1/10W
R483	1-216-805-11	METAL CHIP	47	5%	1/10W (EXCEPT DZ810)
R486	1-216-805-11	METAL CHIP	47	5%	1/10W (EXCEPT DZ810)
R487	1-216-805-11	METAL CHIP	47	5%	1/10W
R488	1-216-864-11	SHORT CHIP	0		
R489	1-216-805-11	METAL CHIP	47	5%	1/10W (DZ810)
R489	1-216-864-11	SHORT CHIP	0		(EXCEPT DZ810)
R490	1-216-805-11	METAL CHIP	47	5%	1/10W (DZ810)
R490	1-216-864-11	SHORT CHIP	0		(EXCEPT DZ810)
R501	1-216-817-11	METAL CHIP	470	5%	1/10W (DZ170/DZ171/DZ175)
R502	1-218-285-11	METAL CHIP	75	5%	1/10W (DZ170/DZ171/DZ175)
R504	1-216-841-11	METAL CHIP	47K	5%	1/10W (DZ170/DZ171/DZ175)
R505	1-216-809-11	METAL CHIP	100	5%	1/10W (DZ170/DZ171/DZ175)
R506	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT DZ310)
R507	1-216-809-11	METAL CHIP	100	5%	1/10W (DZ310/DZ510/DZ610/DZ810)
R509	1-216-809-11	METAL CHIP	100	5%	1/10W (DZ310/DZ510/DZ610/DZ810)
R511	1-234-372-11	RES, NETWORK 100X4 (1005)			
R512	1-234-372-11	RES, NETWORK 100X4 (1005)			
R519	1-234-372-11	RES, NETWORK 100X4 (1005)			
R523	1-216-864-11	SHORT CHIP	0 (DZ310/DZ510/DZ610/DZ810)		
R524	1-216-864-11	SHORT CHIP	0 (DZ310/DZ510/DZ610/DZ810)		
R531	1-216-821-11	METAL CHIP	1K	5%	1/10W (SP)
R531	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (E3,E15)
R531	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (E12)
R531	1-216-833-11	METAL CHIP	10K	5%	1/10W (EA)
R531	1-216-841-11	METAL CHIP	47K	5%	1/10W (US,CND,E32)
R532	1-216-833-11	METAL CHIP	10K	5%	1/10W (E32)
R532	1-216-837-11	METAL CHIP	22K	5%	1/10W (DZ170/DZ171/DZ175)
R532	1-216-841-11	METAL CHIP	47K	5%	1/10W (E3,E12,E15,EA)
R534	1-216-821-11	METAL CHIP	1K	5%	1/10W
R535	1-216-821-11	METAL CHIP	1K	5%	1/10W (DZ170/DZ171)
R535	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (DZ310)
R535	1-216-839-11	METAL CHIP	33K	5%	1/10W (DZ175)
R535	1-216-841-11	METAL CHIP	47K	5%	1/10W (DZ510/DZ610/DZ810)
R536	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (DZ810)
R536	1-216-837-11	METAL CHIP	22K	5%	1/10W (DZ610)
R536	1-216-839-11	METAL CHIP	33K	5%	1/10W (DZ510)
R536	1-216-841-11	METAL CHIP	47K	5%	1/10W (DZ175/DZ310)
R540	1-216-809-11	METAL CHIP	100	5%	1/10W
R541	1-216-833-11	METAL CHIP	10K	5%	1/10W
R542	1-216-833-11	METAL CHIP	10K	5%	1/10W
R543	1-216-809-11	METAL CHIP	100	5%	1/10W
R544	1-216-809-11	METAL CHIP	100	5%	1/10W
R545	1-216-833-11	METAL CHIP	10K	5%	1/10W
R548	1-216-833-11	METAL CHIP	10K	5%	1/10W
R549	1-216-833-11	METAL CHIP	10K	5%	1/10W
R550	1-216-833-11	METAL CHIP	10K	5%	1/10W
R553	1-216-809-11	METAL CHIP	100	5%	1/10W (DZ310/DZ510/DZ610/DZ810)
R554	1-216-821-11	METAL CHIP	1K	5%	1/10W
R555	1-234-372-11	RES, NETWORK 100X4 (1005)			
R563	1-216-833-11	METAL CHIP	10K	5%	1/10W
R564	1-216-864-11	SHORT CHIP	0		
R569	1-216-821-11	METAL CHIP	1K	5%	1/10W
R572	1-216-833-11	METAL CHIP	10K	5%	1/10W
R574	1-216-864-11	SHORT CHIP	0 (DZ310/DZ510/DZ610/DZ810)		
R577	1-216-833-11	METAL CHIP	10K	5%	1/10W
R579	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R581	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R582	1-216-841-11	METAL CHIP	47K	5%	1/10W
R583	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R584	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R585	1-216-833-11	METAL CHIP	10K	5%	1/10W
R591	1-216-833-11	METAL CHIP	10K	5%	1/10W
R592	1-216-833-11	METAL CHIP	10K	5%	1/10W
R596	1-216-845-11	METAL CHIP	100K	5%	1/10W
R597	1-216-841-11	METAL CHIP	47K	5%	1/10W
R598	1-216-841-11	METAL CHIP	47K	5%	1/10W
R599	1-216-833-11	METAL CHIP	10K	5%	1/10W
R600	1-216-809-11	METAL CHIP	100	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R602	1-216-809-11	METAL CHIP	100	5%	1/10W
R603	1-234-372-11	RES, NETWORK 100X4 (1005)			
R607	1-216-809-11	METAL CHIP	100	5%	1/10W
R609	1-216-833-11	METAL CHIP	10K	5%	1/10W
R614	1-216-809-11	METAL CHIP	100	5%	1/10W
R615	1-216-821-11	METAL CHIP	1K	5%	1/10W
R620	1-218-851-11	METAL CHIP	1.5K	0.5%	1/10W
R621	1-216-821-11	METAL CHIP	1K	5%	1/10W
R622	1-218-885-11	METAL CHIP	39K	0.5%	1/10W
R623	1-216-841-11	METAL CHIP	47K	5%	1/10W
R624	1-216-833-11	METAL CHIP	10K	5%	1/10W
R625	1-216-821-11	METAL CHIP	1K	5%	1/10W
R626	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R627	1-216-809-11	METAL CHIP	100	5%	1/10W
R628	1-216-821-11	METAL CHIP	1K	5%	1/10W
R629	1-216-809-11	METAL CHIP	100	5%	1/10W
R636	1-216-833-11	METAL CHIP	10K	5%	1/10W
R638	1-216-833-11	METAL CHIP	10K	5%	1/10W
R640	1-216-809-11	METAL CHIP	100	5%	1/10W
R701	1-216-833-11	METAL CHIP	10K	5%	1/10W (DZ310/DZ510/DZ610/DZ810)
R711	1-216-849-11	METAL CHIP	220K	5%	1/10W (DZ310/DZ510/DZ610/DZ810)
R712	1-216-864-11	SHORT CHIP	0 (DZ310/DZ510/DZ610/DZ810)		
R713	1-216-817-11	METAL CHIP	470	5%	1/10W (DZ310/DZ510/DZ610/DZ810)
R715	1-216-841-11	METAL CHIP	47K	5%	1/10W (DZ310/DZ510/DZ610/DZ810)
R717	1-216-807-11	METAL CHIP	68	5%	1/10W (DZ310/DZ510/DZ610/DZ810)
R718	1-216-807-11	METAL CHIP	68	5%	1/10W (DZ310/DZ510/DZ610/DZ810)
R1101	1-216-809-11	METAL CHIP	100	5%	1/10W
R1103	1-218-864-11	METAL CHIP	5.1K	0.5%	1/10W
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1108	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1109	1-216-864-11	SHORT CHIP	0		
R1110	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1111	1-216-809-11	METAL CHIP	100	5%	1/10W
R1112	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R1113	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R1114	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1115	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R1116	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1117	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1118	1-216-801-11	METAL CHIP	22	5%	1/10W
R1120	1-216-801-11	METAL CHIP	22	5%	1/10W
R1121	1-216-801-11	METAL CHIP	22	5%	1/10W
R1123	1-216-864-11	SHORT CHIP	0		
R1124	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1125	1-216-805-11	METAL CHIP	47	5%	1/10W
R1132	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1133	1-216-864-11	SHORT CHIP	0		
R1135	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1136	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1140	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1141	1-216-855-11	METAL CHIP	680K	5%	1/10W
R1142	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1146	1-216-805-11	METAL CHIP	47	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1151	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1154	1-216-809-11	METAL CHIP	100	5%	1/10W
R1155	1-216-809-11	METAL CHIP	100	5%	1/10W
R1156	1-216-809-11	METAL CHIP	100	5%	1/10W
R1159	1-216-805-11	METAL CHIP	47	5%	1/10W
R1160	1-216-805-11	METAL CHIP	47	5%	1/10W
R1161	1-216-801-11	METAL CHIP	22	5%	1/10W
R1162	1-216-805-11	METAL CHIP	47	5%	1/10W
R1163	1-216-805-11	METAL CHIP	47	5%	1/10W
R1164	1-216-805-11	METAL CHIP	47	5%	1/10W
R1165	1-216-805-11	METAL CHIP	47	5%	1/10W
R1171	1-216-809-11	METAL CHIP	100	5%	1/10W
R1176	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1183	1-216-805-11	METAL CHIP	47	5%	1/10W
R1184	1-216-805-11	METAL CHIP	47	5%	1/10W
R1185	1-216-805-11	METAL CHIP	47	5%	1/10W
R1186	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1191	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1192	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1193	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1198	1-216-809-11	METAL CHIP	100	5%	1/10W
R1501	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1502	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1503	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1504	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1507	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1508	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1512	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R1513	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R1517	1-216-815-11	METAL CHIP	330	5%	1/10W
R1518	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R1519	1-218-877-11	METAL CHIP	18K	0.5%	1/10W
R1521	1-218-893-11	METAL CHIP	82K	0.5%	1/10W
R1525	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R1526	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1527	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1529	1-216-864-11	SHORT CHIP	0		
R1532	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1535	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R1536	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R1537	1-218-853-11	METAL CHIP	1.8K	0.5%	1/10W
R1538	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R1539	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R1540	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1541	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R1542	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1543	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1544	1-216-797-11	METAL CHIP	10	5%	1/10W
R1605	1-216-809-11	METAL CHIP	100	5%	1/10W (DZ170/DZ171/DZ175)
R1730	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R1742	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1743	1-216-864-11	SHORT CHIP	0 (DZ810)		
R1744	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (EXCEPT DZ810)
R1749	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R1750	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R1751	1-216-864-11	SHORT CHIP	0		
R1752	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1757	1-216-864-11	SHORT CHIP	0		
R1781	1-216-827-11	METAL CHIP	3.3K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R1782	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2101	1-218-841-11	METAL CHIP	560	0.5%	1/10W
R2103	1-216-864-11	SHORT CHIP	0 (DZ310/DZ510/DZ610/DZ810)		
R2110	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R2114	1-216-801-11	METAL CHIP	22	5%	1/10W
R2115	1-216-864-11	SHORT CHIP	0		
R2120	1-216-809-11	METAL CHIP	100	5%	1/10W
R2129	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2130	1-216-809-11	METAL CHIP	100	5%	1/10W
R2131	1-216-809-11	METAL CHIP	100	5%	1/10W
R2136	1-216-805-11	METAL CHIP	47	5%	1/10W
R2150	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2151	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2152	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2155	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2156	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2157	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2158	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2159	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2160	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2167	1-216-864-11	SHORT CHIP	0		
R2168	1-216-815-11	METAL CHIP	330	5%	1/10W
R2178	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2179	1-216-809-11	METAL CHIP	100	5%	1/10W
R2180	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2184	1-216-809-11	METAL CHIP	100	5%	1/10W
R2185	1-216-809-11	METAL CHIP	100	5%	1/10W
R2191	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2192	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2193	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2194	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3001	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3002	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3003	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3004	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3006	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3010	1-216-817-11	METAL CHIP	470	5%	1/10W
R3011	1-216-805-11	METAL CHIP	47	5%	1/10W
R3012	1-216-817-11	METAL CHIP	470	5%	1/10W
R3013	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3014	1-216-801-11	METAL CHIP	22	5%	1/10W
R3015	1-216-805-11	METAL CHIP	47	5%	1/10W
R3016	1-216-809-11	METAL CHIP	100	5%	1/10W
R3020	1-216-817-11	METAL CHIP	470	5%	1/10W
R3021	1-216-805-11	METAL CHIP	47	5%	1/10W
R3022	1-216-817-11	METAL CHIP	470	5%	1/10W
R3024	1-216-801-11	METAL CHIP	22	5%	1/10W
R3025	1-216-805-11	METAL CHIP	47	5%	1/10W
R3026	1-216-809-11	METAL CHIP	100	5%	1/10W
R3030	1-216-817-11	METAL CHIP	470	5%	1/10W
R3032	1-216-817-11	METAL CHIP	470	5%	1/10W
R3033	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3034	1-216-801-11	METAL CHIP	22	5%	1/10W
R3035	1-216-805-11	METAL CHIP	47	5%	1/10W
R3036	1-216-809-11	METAL CHIP	100	5%	1/10W
R3040	1-216-864-11	SHORT CHIP	0		
R3041	1-216-864-11	SHORT CHIP	0		
R3042	1-216-864-11	SHORT CHIP	0		
R3043	1-216-864-11	SHORT CHIP	0		
R3044	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R3045	1-216-864-11	SHORT CHIP	0		
R3051	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3052	1-216-857-11	METAL CHIP	1M	5%	1/10W
R3053	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3054	1-216-805-11	METAL CHIP	47	5%	1/10W
R3059	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3060	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3065	1-216-809-11	METAL CHIP	100	5%	1/10W
R3074	1-216-805-11	METAL CHIP	47	5%	1/10W
R3075	1-216-805-11	METAL CHIP	47	5%	1/10W
R3076	1-216-805-11	METAL CHIP	47	5%	1/10W
R3080	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3091	1-216-864-11	SHORT CHIP	0		
R3092	1-216-864-11	SHORT CHIP	0		
R3093	1-216-864-11	SHORT CHIP	0		
R3094	1-216-864-11	SHORT CHIP	0		
R3095	1-216-864-11	SHORT CHIP	0		
R3096	1-216-864-11	SHORT CHIP	0		
R3101	1-216-805-11	METAL CHIP	47	5%	1/10W
R3102	1-216-805-11	METAL CHIP	47	5%	1/10W
R3103	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3104	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3105	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3121	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3122	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3123	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R3126	1-216-864-11	SHORT CHIP	0		
R3151	1-216-805-11	METAL CHIP	47	5%	1/10W
R3152	1-216-805-11	METAL CHIP	47	5%	1/10W
R3153	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3154	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3155	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3201	1-216-805-11	METAL CHIP	47	5%	1/10W
R3202	1-216-805-11	METAL CHIP	47	5%	1/10W
R3203	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3204	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3205	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3221	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3222	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3223	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R3226	1-216-864-11	SHORT CHIP	0		
R3251	1-216-805-11	METAL CHIP	47	5%	1/10W
R3252	1-216-805-11	METAL CHIP	47	5%	1/10W
R3253	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3254	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3255	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3301	1-216-805-11	METAL CHIP	47	5%	1/10W
R3302	1-216-805-11	METAL CHIP	47	5%	1/10W
R3303	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3304	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3305	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3321	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3322	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3323	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R3326	1-216-864-11	SHORT CHIP	0		
R3401	1-216-805-11	METAL CHIP	47	5%	1/10W
R3402	1-216-805-11	METAL CHIP	47	5%	1/10W
R3403	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3404	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3405	1-216-845-11	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R3551	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3552	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3553	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3554	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3558	1-218-851-11	METAL CHIP	1.5K	0.5%	1/10W
R3561	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3562	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R3563	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R9941	1-216-838-11	METAL CHIP	27K	5%	1/10W
R9942	1-216-838-11	METAL CHIP	27K	5%	1/10W
R9945	1-216-813-11	METAL CHIP	220	5%	1/10W
R9946	1-216-864-11	SHORT CHIP	0		
		< NETWORK RESISTOR >			
RB1103	1-234-371-21	RES, NETWORK 47X4 (1005)			
RB1104	1-234-371-21	RES, NETWORK 47X4 (1005)			
RB1105	1-234-371-21	RES, NETWORK 47X4 (1005)			
RB1106	1-234-371-21	RES, NETWORK 47X4 (1005)			
RB1109	1-234-371-21	RES, NETWORK 47X4 (1005)			
RB1110	1-234-371-21	RES, NETWORK 47X4 (1005)			
RB1111	1-234-371-21	RES, NETWORK 47X4 (1005)			
RB1112	1-234-400-21	CONDUCTOR, NETWORK 0X4 (1005)			
RB1113	1-234-400-21	CONDUCTOR, NETWORK 0X4 (1005)			
RB1114	1-234-370-21	RES, NETWORK 22X4 (1005)			
RB1115	1-234-370-21	RES, NETWORK 22X4 (1005)			
		< TERMINAL BOARD >			
TB3901	1-780-840-11	TERMINAL BOARD (SPEAKER) 4P (SPEAKERS (FRONT R,FRONT L,SUBWOOFER,CENTER))			
		< VIBRATOR >			
X301	1-814-382-11	QUARTZ CRYSTAL UNITS (24.576MHz)			
X501	1-795-058-21	VIBRATOR, CERAMIC (5MHz)			
X1101	1-814-381-11	QUARTZ CRYSTAL UNITS (27MHz)			
X3051	1-814-266-11	VIBRATOR, CRYSTAL (49.152MHz)			
**********					
		MS-203 BOARD			
		**********			
		< CONNECTOR >			
CN001	1-815-412-11	CONNECTOR, FFC/FPC 5P			
		< SWITCH >			
S001	1-786-693-11	SWITCH, DETECTION (CHUCK/TRAY DETECT)			
**********					
	A-1746-219-A	P-SW BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C5301	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
* CN5301	1-580-055-21	PIN, CONNECTOR (SMD) 2P			
		< SWITCH >			
S5301	1-786-650-21	SWITCH, TACTILE (I/⏻)			
**********					

Ref. No.	Part No.	Description			Remark
	A-1745-461-A	POWER BOARD, COMPLETE			(DZ310:E3,E12,SP/DZ510/DZ610)
	A-1745-463-A	POWER BOARD, COMPLETE			(DZ170/DZ171/DZ175)
	A-1745-467-A	POWER BOARD, COMPLETE (DZ310:E32)			
	A-1761-521-A	POWER BOARD, COMPLETE			(DZ810:E3,E12,SP,E15,EA)
	A-1761-527-A	POWER BOARD, COMPLETE (DZ810:E32)			
		**********			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3			
		< CAPACITOR >			
⚠ C901	1-114-594-11	FILM	0.22uF	10%	310V
⚠ C902	1-114-594-11	FILM	0.22uF	10%	310V (E3,E12,SP,E15,EA)
⚠ C902	1-116-397-21	FILM	0.33uF	10%	310V (US,CND,E32)
⚠ C903	1-114-345-21	ELECT(BLOCK)	1000uF	20%	200V (DZ170/DZ171/DZ175)
⚠ C903	1-114-347-21	ELECT(BLOCK)	330uF	20%	450V (DZ310/DZ510/DZ610/DZ810)
⚠ C905	1-116-392-11	FILM	0.01uF	5%	400V (DZ170/DZ171/DZ175)
⚠ C905	1-116-393-11	FILM	0.0033uF	5%	400V (DZ310/DZ510/DZ610/DZ810)
⚠ C906	1-117-815-11	FILM	0.001uF	3%	1.5KV (DZ310/DZ510/DZ610/DZ810)
C907	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (DZ310/DZ510/DZ610/DZ810)
C907	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V (DZ170/DZ171/DZ175)
C908	1-107-909-11	ELECT	47uF	20%	50V
C909	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C910	1-126-965-91	ELECT	22uF	20%	50V (EXCEPT E32)
C910	1-126-967-11	ELECT	47uF	20%	50V (E32)
C916	1-116-078-11	CERAMIC CHIP	1uF	10%	50V
⚠ C918	1-112-887-51	CERAMIC	0.01uF	20%	250V
⚠ C920	1-112-887-51	CERAMIC	0.01uF	20%	250V
⚠ C921	1-117-220-81	CERAMIC	150PF	5%	2KV
C922	1-112-300-91	CERAMIC CHIP	4.7uF	10%	10V
C923	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
⚠ C924	1-116-393-11	FILM	0.0033uF	5%	400V
C925	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
⚠ C926	1-107-930-91	ELECT	22uF	20%	100V
C927	1-112-223-11	ELECT	3300uF	20%	10V
C928	1-112-232-11	ELECT	2700uF	20%	16V
C929	1-112-241-21	ELECT	1000uF	20%	25V
C932	1-114-994-11	ELECT	2200uF	20%	35V
C933	1-114-994-11	ELECT	2200uF	20%	35V
C934	1-112-831-31	ELECT	2200uF	20%	35V
C935	1-114-323-11	CERAMIC CHIP	0.01uF	10%	50V
C936	1-114-323-11	CERAMIC CHIP	0.01uF	10%	50V
C937	1-100-756-91	CERAMIC CHIP	0.047uF	10%	50V
⚠ C938	1-112-869-51	CERAMIC	470PF	10%	250V
C939	1-136-165-00	FILM	0.1uF	5%	50V
C940	1-112-228-21	ELECT	1000uF	20%	16V
C942	1-126-941-11	ELECT	470uF	20%	25V
C943	1-126-935-11	ELECT	470uF	20%	16V
C950	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C951	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V

POWER

Ref. No.	Part No.	Description	Remark
⚠ C963	1-112-869-51	CERAMIC 470PF 10% 250V	(DZ310/DZ510/DZ610/DZ810)
⚠ C963	1-112-870-51	CERAMIC 0.001uF 20% 250V	(DZ170/DZ171/DZ175)
⚠ C964	1-112-869-51	CERAMIC 470PF 10% 250V	(DZ310/DZ510/DZ610/DZ810)
⚠ C964	1-112-870-51	CERAMIC 0.001uF 20% 250V	(DZ170/DZ171/DZ175)
C971	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C972	1-100-566-91	CERAMIC CHIP 0.1uF 10% 25V	
C973	1-100-566-91	CERAMIC CHIP 0.1uF 10% 25V	
C975	1-100-566-91	CERAMIC CHIP 0.1uF 10% 25V	
C976	1-126-933-11	ELECT 100uF 20% 16V	
⚠ C980	1-117-828-11	FILM 0.0033uF 3% 1.5KV	(DZ170/DZ171/DZ175)
C981	1-162-968-11	CERAMIC CHIP 0.0047uF 10% 50V	
C983	1-100-756-91	CERAMIC CHIP 0.047uF 10% 50V	
C984	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C987	1-100-566-91	CERAMIC CHIP 0.1uF 10% 25V	(DZ810)
C990	1-100-566-91	CERAMIC CHIP 0.1uF 10% 25V	
C991	1-100-566-91	CERAMIC CHIP 0.1uF 10% 25V	
C992	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C993	1-100-566-91	CERAMIC CHIP 0.1uF 10% 25V	
⚠ C994	1-112-869-51	CERAMIC 470PF 10% 250V	(DZ310/DZ510/DZ610)
C997	1-116-078-11	CERAMIC CHIP 1uF 10% 50V	
C998	1-162-968-11	CERAMIC CHIP 0.0047uF 10% 50V	
		< CONNECTOR >	
CN901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
CN904	1-785-102-11	PIN, CONNECTOR (3.96mm PITCH) 4P	
* CN906	1-764-334-11	PLUG, CONNECTOR 11P	
CN908	1-564-505-11	PLUG, CONNECTOR 2P (DZ810)	
		< DIODE >	
D901	8-719-082-57	DIODE D5SBA60F01	
D902	8-719-063-74	DIODE D1NL20U-TR2	
D906	6-501-817-01	DIODE MA2J1110GLS0	
D907	6-501-817-01	DIODE MA2J1110GLS0	
D908	6-501-817-01	DIODE MA2J1110GLS0	
D909	6-501-817-01	DIODE MA2J1110GLS0	
D910	6-501-817-01	DIODE MA2J1110GLS0	
D913	6-500-241-01	DIODE SARS03	
D914	6-501-817-01	DIODE MA2J1110GLS0	
D931	6-501-849-01	DIODE FMX-22SL	
D942	6-502-518-01	DIODE 50PQSA065-FA9	
D943	8-719-080-53	DIODE RK36LF-B3	
D946	6-502-234-01	DIODE EG01C LF-F7 (DZ810)	
D946	8-719-030-25	DIODE EG01CV0 (EXCEPT DZ810)	
D954	6-500-288-11	DIODE EK19LF-F7 (DZ810)	
D954	8-719-080-59	DIODE EK19-V0 (EXCEPT DZ810)	
D955	6-500-288-11	DIODE EK19LF-F7 (DZ810)	
D955	8-719-080-59	DIODE EK19-V0 (EXCEPT DZ810)	
DZ901	6-501-782-01	DIODE MAZ8180GMLS0	
DZ902	6-502-231-01	DIODE MAZ8220GLLSO	
DZ903	6-501-787-01	DIODE MAZ8220GMLS0	
DZ905	6-501-792-01	DIODE MAZ8300GMLS0	(DZ310/DZ510/DZ610/DZ810)
DZ905	8-719-083-71	DIODE UDZSUSTE-1730B	(DZ170/DZ171/DZ175)
DZ915	6-501-760-01	DIODE MAZ8100GMLS0	
DZ951	8-719-083-71	DIODE UDZSUSTE-1730B	
DZ954	8-719-083-71	DIODE UDZSUSTE-1730B	(DZ310/DZ510/DZ610/DZ810)
		< FUSE >	
⚠ F945	1-576-794-11	FUSE, MICRO (1608) 2A	
		< FUSE HOLDER >	
FH901	1-533-217-41	HOLDER, FUSE	
FH902	1-533-217-41	HOLDER, FUSE	
		< RESISTOR >	
⚠ FR929	1-246-373-11	FUSIBLE 1 10% 1/2W F	
		< IC >	
⚠ IC901	6-707-741-01	IC STR-F6138-LF1352	(DZ170/DZ171/DZ175)
⚠ IC901	6-707-742-01	IC STR-F6168-LF1352	(DZ310/DZ510/DZ610/DZ810)
IC921	(Not supplied)	IC STR-Y6763	
IC923	6-711-947-01	IC MM1431CURE	
IC932	6-711-947-01	IC MM1431CURE	
IC941	6-712-613-01	IC SI-3010KM-TLS	
		< COIL >	
L931	1-457-878-65	COIL, CHOKE 2.2uH	
L954	1-457-578-11	COIL, CHOKE 10uH	
L956	1-457-578-11	COIL, CHOKE 10uH	
L963	1-469-525-91	INDUCTOR 10uH	
L964	1-457-725-11	COIL, CHOKE 4.7uH	
L967	1-457-725-11	COIL, CHOKE 4.7uH	
		< LINE FILTER >	
⚠ LF901	1-457-054-21	COIL, LINE FILTER (E3,E12,SP,E15,EA)	
⚠ LF901	1-457-449-11	COIL, LINE FILTER (US,CND,E32)	
⚠ LF902	1-457-054-21	COIL, LINE FILTER (E3,E12,SP,E15,EA)	
⚠ LF902	1-457-449-11	COIL, LINE FILTER (US,CND,E32)	
		< PHOTO COUPLER >	
⚠ PC901	6-600-276-01	PHOTO COUPLER PS2561AL1-1-V-W	
⚠ PC902	6-600-276-01	PHOTO COUPLER PS2561AL1-1-V-W	
⚠ PC903	6-600-276-01	PHOTO COUPLER PS2561AL1-1-V-W	
		< TRANSISTOR >	
Q901	8-729-201-53	TRANSISTOR 2SA1015-GR	
Q922	6-550-702-01	TRANSISTOR 2SC3243-TP-E	
Q943	8-729-029-14	TRANSISTOR DTC144EUA-T106	
Q945	6-552-458-01	FET 2SK3577	
Q949	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q950	8-729-029-14	TRANSISTOR DTC144EUA-T106	
Q969	6-551-699-01	TRANSISTOR ISA1602AM1TP-1EF	
		< RESISTOR >	
⚠ R901	1-219-759-11	METAL 1M 5% 1/2W F	(DZ170/DZ171/DZ175)
⚠ R901	1-240-938-91	METAL 1.5M 5% 1/2W F	(DZ310/DZ510/DZ610/DZ810)
⚠ R903	1-250-297-65	METAL OXIDE 100K 5% 3W F	(DZ310/DZ510/DZ610/DZ810)
⚠ R903	1-250-299-65	METAL OXIDE 33K 5% 3W F	(DZ170/DZ171/DZ175)

Note: When IC921 on the Power board is damaged, exchange the new Power board for the Power board which IC damaged.

Ref. No.	Part No.	Description				Remark
⚠ R904	1-250-297-65	METAL OXIDE	100K	5%	3W	F (DZ310/DZ510/DZ610/DZ810)
⚠ R904	1-250-299-65	METAL OXIDE	33K	5%	3W	F (DZ170/DZ171/DZ175)
R905	1-216-797-11	METAL CHIP	10	5%	1/10W	
R906	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R907	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R908	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R909	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R910	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R911	1-216-813-11	METAL CHIP	220	5%	1/10W	
⚠ R912	1-216-363-00	METAL OXIDE	0.33	5%	2W	F (DZ310/DZ510/DZ610/DZ810)
⚠ R914	1-220-891-11	METAL	0.1	10%	5W	F (DZ310/DZ510/DZ610/DZ810)
⚠ R914	1-248-180-11	METAL	0.034	5%	5W	F (DZ170/DZ171/DZ175)
⚠ R916	1-250-297-65	METAL OXIDE	100K	5%	3W	F
R917	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R919	1-216-837-11	METAL CHIP	22K	5%	1/10W	
⚠ R922	1-250-262-41	METAL	0.39	5%	2W	F
R923	1-218-879-11	METAL CHIP	22K	0.5%	1/10W	
R925	1-216-797-11	METAL CHIP	10	5%	1/10W	
R926	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	
R931	1-218-851-11	METAL CHIP	1.5K	0.5%	1/10W	
R932	1-218-879-11	METAL CHIP	22K	0.5%	1/10W	
R933	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R934	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R935	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R936	1-216-853-11	METAL CHIP	470K	5%	1/10W	
R937	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R938	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	
R939	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R940	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R941	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	
R942	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R945	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R946	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R949	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R951	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	
R952	1-216-864-11	SHORT CHIP	0			
R954	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W	
R955	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R956	1-216-817-11	METAL CHIP	470	5%	1/10W	
R957	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R958	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R959	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R962	1-216-864-11	SHORT CHIP	0			
R963	1-218-839-11	METAL CHIP	470	0.5%	1/10W	
R965	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W	
R966	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R967	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R972	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R974	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R976	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R978	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R992	1-216-793-11	METAL CHIP	4.7	5%	1/10W	
R998	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R999	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	

Ref. No.	Part No.	Description				Remark
		< TRANSFORMER >				
⚠ T901	1-443-649-11	TRANSFORMER, CONVERTER				(DZ170/DZ171/DZ175)
⚠ T901	1-443-874-11	TRANSFORMER, CONVERTER				(DZ310/DZ510/DZ610/DZ810)
⚠ T903	1-445-320-11	TRANSFORMER, CONVERTER				
		< THERMISTOR >				
⚠ TH901	1-805-841-21	THERMISTOR, NTC 3.0 (US,CND,E32)				
⚠ TH901	1-805-842-21	THERMISTOR, NTC 6.0 (E3,E12,SP,E15,EA)				
		< VARISTOR >				
⚠ VDR901	1-802-839-11	VARISTOR				
**********						
		S-AIR CON BOARD (DZ810)				
		**********				
		< CONNECTOR >				
CN100	1-779-550-21	CONNECTOR, FFC (LIF (NON-ZIF)) 13P				
CN102	1-564-517-11	PLUG, CONNECTOR 2P				
CN103	1-821-744-11	CONNECTOR, CARD EDGE 30P (EZW-T100)				
		< TRANSISTOR >				
Q100	8-729-029-14	TRANSISTOR DTC144EUA-T106				
Q101	6-550-363-01	TRANSISTOR 2SB1690KT146				
		< RESISTOR >				
R100	1-216-817-11	METAL CHIP	470	5%	1/10W	
R101	1-216-817-11	METAL CHIP	470	5%	1/10W	
R102	1-216-817-11	METAL CHIP	470	5%	1/10W	
R103	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R104	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R105	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R106	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R108	1-216-833-11	METAL CHIP	10K	5%	1/10W	
**********						
		SPEAKER BOARD				
		**********				
		< CAPACITOR >				
C5401	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	
C5402	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	
C5403	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	
C5404	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	
C5405	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C5406	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C5407	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C5408	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
		< CONNECTOR >				
* CN5401	1-564-519-11	PLUG, CONNECTOR 4P				
		< COIL >				
L5401	1-457-077-11	COIL, AIR-CORE				
L5402	1-457-078-11	COIL, AIR-CORE				
L5403	1-457-077-11	COIL, AIR-CORE				
L5404	1-457-078-11	COIL, AIR-CORE				

SPEAKER **USB**

Ref. No.	Part No.	Description	Remark
		< TERMINAL BOARD >	
TB5401	1-780-452-11	TERMINAL BOARD (SPEAKER) 2P (SPEAKERS (SUR R,SUR L))	
**********			
		USB BOARD	
		**********	
		< CAPACITOR >	
C5501	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
		< CONNECTOR >	
CN5501	1-822-423-11	CONNECTOR, USB (A) 4P (USB)	
CN5502	1-784-922-11	PIN, CONNECTOR 5P	
**********			
		MISCELLANEOUS	
		**********	
102	1-832-579-21	CABLE, FLEXIBLE FLAT (13 CORE) (DZ170/DZ171/DZ175)	
102	1-832-589-21	CABLE, FLEXIBLE FLAT (15 CORE) (DZ310/DZ510/DZ610/DZ810)	
152	1-832-576-21	CABLE, FLEXIBLE FLAT (13 CORE) (DZ810)	
153	1-832-813-21	CABLE, FLEXIBLE FLAT (9 CORE)	
⚠ 156	1-834-966-41	CORD, POWER-SUPPLY (DZ310/DZ510/DZ610/DZ810)	
⚠ 156	1-837-308-11	CORD, POWER-SUPPLY (DZ170/DZ171/DZ175)	
⚠ 157	1-770-019-71	ADAPTOR, CONVERSION PLUG 3P (EA)	
⚠ 158	1-569-008-33	ADAPTOR, CONVERSION (E32)	
203	1-832-538-21	CABLE, FLEXIBLE FLAT (5 CORE)	
206	1-832-553-21	CABLE, FLEXIBLE FLAT (9 CORE)	
207	1-832-592-21	CABLE, FLEXIBLE FLAT (17 CORE) (DZ170/DZ171/DZ175)	
207	1-832-602-21	CABLE, FLEXIBLE FLAT (19 CORE) (DZ310/DZ510/DZ610/DZ810)	
⚠ 257	8-820-321-12	OPTICAL PICK-UP (KHM-313CAA/C2RP1)	
258	1-828-773-51	WIRE (FLAT TYPE) (24 CORE)	
⚠ F901	1-533-311-12	FUSE, GLASS (DIA. 5) (8A/125V) (US,CND)	
⚠ F901	1-576-232-51	FUSE (H.B.C.) (5A/250V) (E3,E12,SP,E15,EA)	
⚠ F901	1-576-233-51	FUSE (H.B.C.) (6.3A/250V) (E32)	
FAN3001	1-787-396-21	FAN, DC (50 SQUARE)	
TU901	1-693-780-11	TUNER (FM) (DZ310/DZ510/DZ610/DZ810)	
TU901	1-693-781-11	TUNER (FM) (DZ170/DZ171/DZ175)	

MEMO

REVISION HISTORY

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

Ver.	Date	Description of Revision
1.0	2010.01	New