

RCD-W3

SERVICE MANUAL

Ver 1.1 2002.10

US Model
Canadian Model
AEP Model
UK Model



CD-R	Model Name Using Similar Mechanism	RCD-W1
	CD Mechanism Type	CDM-700(CD-RW)
	Optical Pick-up Type	KRS-220C
CDP	Model Name Using Similar Mechanism	RCD-W1
	CD Mechanism Type	CDM-700(CDP)

SPECIFICATIONS

DECK A (the CD player section)

System	Compact disc and digital audio system
Laser	Semiconductor laser ($\lambda = 780$ nm) Emission duration: continuous
Frequency response	20 Hz – 20,000 Hz (± 0.5 dB)
Signal-to-noise ratio	More than 100 dB
Dynamic range	More than 95 dB

DECK B (the CD-R and CD-RW recording section)

System	Compact disc digital audio system
Laser	Semiconductor laser ($\lambda = 780$ nm) Emission duration: continuous
Playable discs	CD, CD-R, CD-RW
Recordable discs	CD-R, CD-RW (for music use)
Frequency response	20 to 20,000 Hz ± 0.5 dB
Signal-to-noise ratio	Over 100 dB during playback
Dynamic range	More than 95 dB during playback

Inputs

ANALOG IN (Phono jacks)	impedance 47 kilohms Rated input 330 mVrms Minimum input 125 mVrms
DIGITAL OPTICAL IN (Square optical connector jack)	Optical wavelength 660 nm

Outputs

ANALOG OUT (Phono jacks)	Rated output 2 Vrms (at 50 kilohms) Load impedance over 10 kilohms
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OPTICAL DIGITAL OUT (Square optical connector jack)	Wavelength 660 nm Output level -18 dBm
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PHONES (Phone jacks)	28 mW, 32 ohms
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General

Power requirements	
U.S.A. and Canada	120 V AC, 60 Hz
Other countries	110 – 240 V AC, 50/60 Hz
Power consumption	20 W
Dimensions (approx.) (w/h/d) incl. projecting parts and control	430 x 108 x 368 mm
Mass (approx.)	4.6 kg
Supplied accessories	• Audio connecting cord (2) • Remote commander (remote) (1) • Size AA (R6) batteries (2).

Design and specifications are subject to change without notice.

COMPACT DISC RECORDER

9-874-117-02
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Home Audio Company
Published by Sony Engineering Corporation

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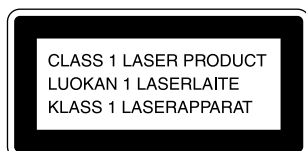
NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

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

SAFETY-RELATED COMPONENT WARNING !!

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

SAFETY CHECK-OUT

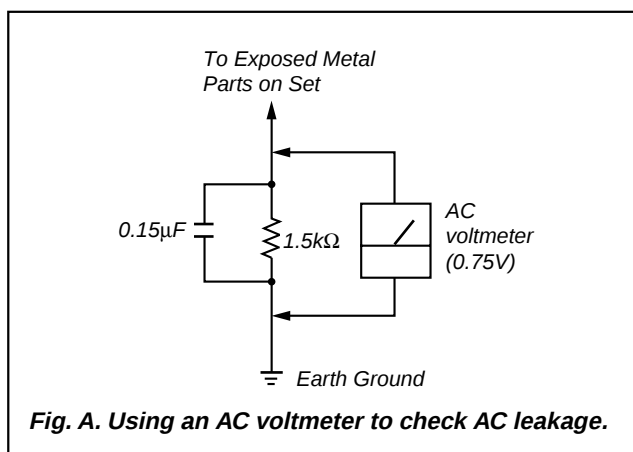
After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

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 2V AC range are suitable. (See Fig. A)



ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

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

Error Messages

The following table explains the error messages that appear in the display.

Message	Explanation
CHECK DISC	• A record-related button has been pressed when a finalized disc is in the DECK B. • A record-related button has been pressed when a standard CD is in the DECK B.
DATA DISC	A non-audio CD-ROM or a CDVideo disc has been placed in the machine.
DISC ERROR	• An unfinalized disc has been placed in the DECK A. • There is a problem with the disc. • A DVD disc has been placed in the unit.
DISC FULL	There is not enough time left on the disc to complete a planned recording.
ERROR	There is a problem with the tray.
FAILED	A dubbing has not been completed properly.
FULL	More than 20 tracks have been programmed.
NO AUDIO	A record-related button has been pressed when a non-audio disc is in the DECK B.

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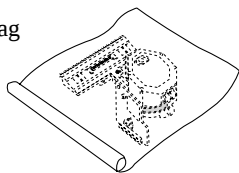
SECTION 1 SERVICING NOTE

NOTES REGARDING HANDLING OF THE PICK-UP

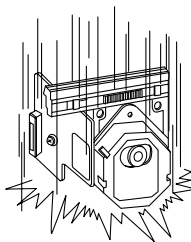
1. Notes for transport and storage

- 1) The pick-up should always be left in its conductive bag until immediately prior to use.
- 2) The pick-up should never be subjected to external pressure or impact.

Storage in conductive bag

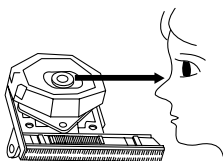


Drop impact



2. Repair notes

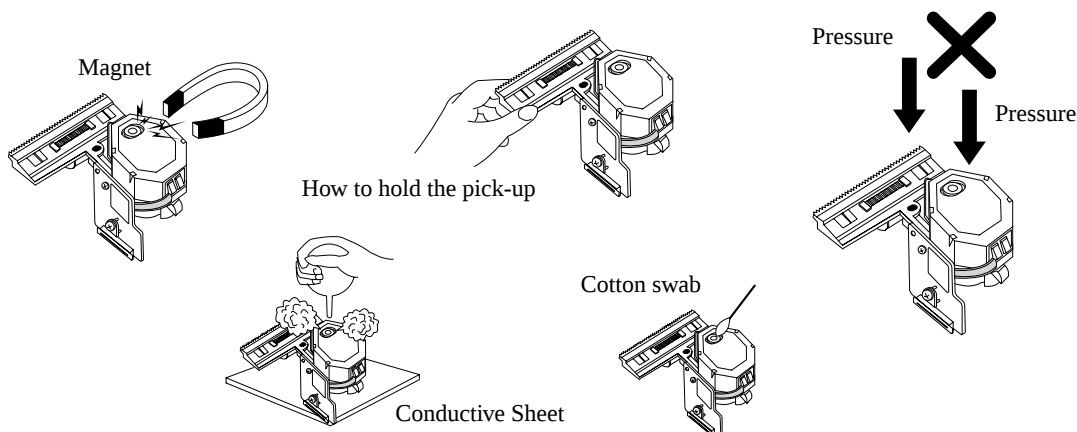
- 1) The pick-up incorporates a strong magnet, and so should never be brought close to magnetic materials.
- 2) The pick-up should always be handled correctly and carefully, taking care to avoid external pressure and impact. If it is subjected to pressure or impact, the result may be an operational malfunction and/or damage to the printed-circuit board.
- 3) Each and every pick-up is already individually adjusted to a high degree of precision, and for that reason the adjustment point and installation screws should absolutely never be touched.
- 4) Laser beams may damage the eyes!
Absolutely never permit laser beams to enter the eyes!
Also NEVER switch ON the power to the laser output part (lens, etc.) of the pick-up if it is damaged.



NEVER look directly at the laser beam, and don't let contact fingers or other exposed skin.

5) Cleaning the lens surface

If there is dust on the lens surface, the dust should be cleaned away by using an air bush (such as used for camera lens). The lens is held by a delicate spring. When cleaning the lens surface, therefore, a cotton swab should be used, taking care not to distort this.



6) Never attempt to disassemble the pick-up.

Spring by excess pressure. If the lens is extremely dirty, apply isopropyl alcohol to the cotton swab. (Do not use any other liquid cleaners, because they will damage the lens.) Take care not to use too much of this alcohol on the swab, and do not allow the alcohol to get inside the pick-up.

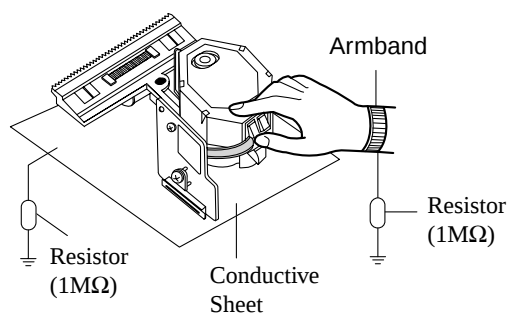
NOTES REGARDING COMPACT DISC PLAYER REPAIRS

1. Preparations

- 1) Compact disc players incorporate a great many ICs as well as the pick-up (laser diode). These components are sensitive to, and easily affected by, static electricity. If such static is high voltage, components can be damaged, and for that reason components should be handled with care.
- 2) The pick-up is composed of many optical components and other high-precision components. Care must be taken, therefore, to avoid repair or storage where the temperature of humidity is high, where strong magnetism is present, or where there is excessive dust.

2. Notes for repair

- 1) Before replacing a component part, first disconnect the power supply lead wire from the unit
- 2) All equipment, measuring instruments and tools must be grounded.
- 3) The workbench should be covered with a conductive sheet and grounded.
When removing the laser pick-up from its conductive bag, do not place the pick-up on the bag. (This is because there is the possibility of damage by static electricity.)
- 4) To prevent AC leakage, the metal part of the soldering iron should be grounded.
- 5) Workers should be grounded by an armband ($1M\Omega$)
- 6) Care should be taken not to permit the laser pick-up to come in contact with clothing, in order to prevent static electricity changes in the clothing to escape from the armband.
- 7) The laser beam from the pick-up should NEVER be directly facing the eyes or bare skin.



Electrostatically Sensitive Devices (ESD)

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ESD devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESD devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.
6. Do not remove a replacement ESD device from its protective package until immediately before you are ready to install it. (Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).
7. Immediately before removing the protective material from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION : BE SURE NO POWER IS APPLIED TO THE CHASSIS OR CIRCUIT, AND OBSERVE ALL OTHER SAFETY PRECAUTIONS.

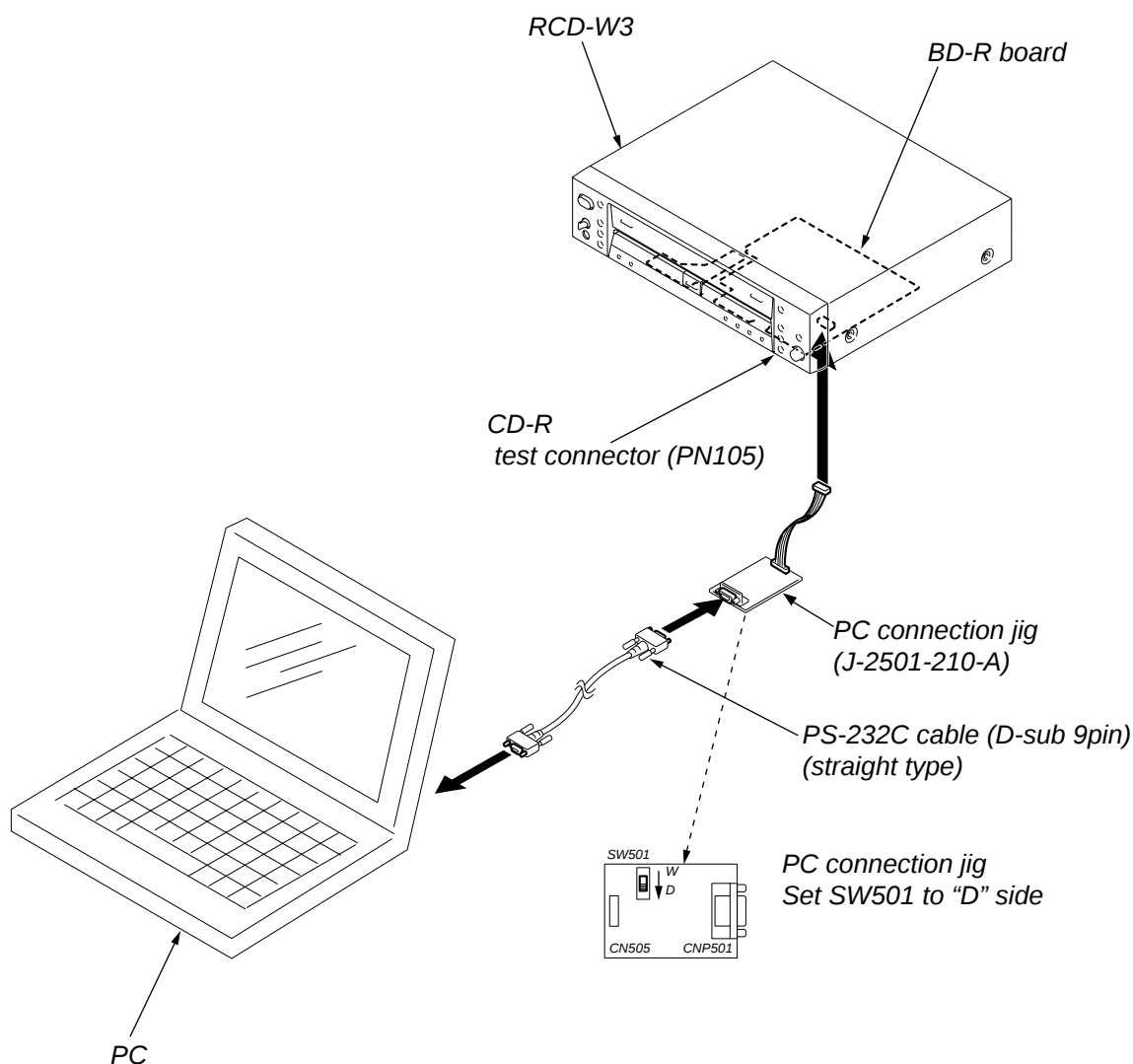
8. Minimize bodily motions when handling unpackaged replacement ESD devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).

NOTE ON CHECKING POWER SUPPLY CIRCUIT

1. When check the primary part, you must remove the GND pin of the scope and soldering machine.
Primary GND : C103 (⊖) terminal at power board.
2. When check the primary part, you must open the another GND(not used GND) of scope.
(If another scope GND is connected to secondary GND or other system, input power line or system have some damage.)
3. When touch the primary part by hand in defected system, if you use the power line switch, remove the power cord and then check or touch.
Because in general power switch is switching only one line.
4. When check the primary part, after remove power cord and discharge the primary capacitor, and then check the system.
In the normal state, the voltage of the capacitor is small (about 10V), but in the abnormal state is very high (about 140V at 100V A.C or 300V at 220V).
When discharge the capacitor, use the wattage resistor(about 100 ohm).
5. In the narrow system, Until set repaired completely, insert the power cord at the moment repeatedly and then check the waveform.
6. In the wide system, when insert the power cord, check the wave form after about 3 second.
Because the wide system is the soft start method.

BD-R BOARD CHECK AND ADJUSTING JIGS

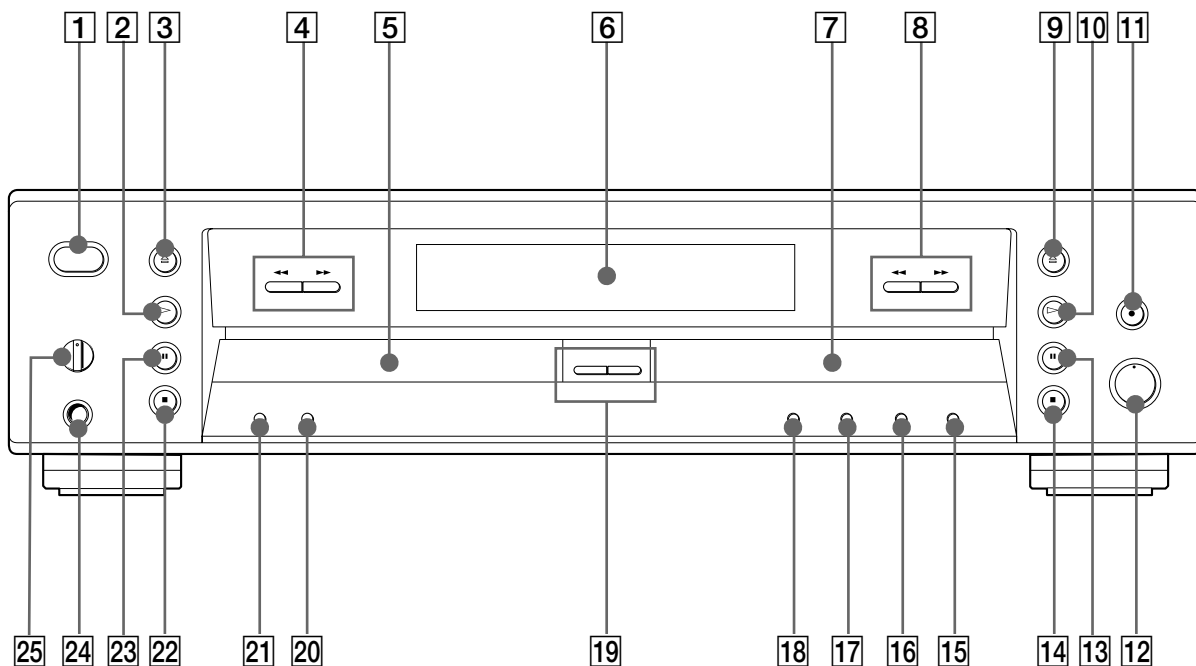
In case of checking or adjusting the LD power of BD-R board, the PC connection jig (J-2501-210-A) and the test program are required.
This test program is distributed with the service manual.



SECTION 2 GENERAL

This section is extracted from instruction manual.

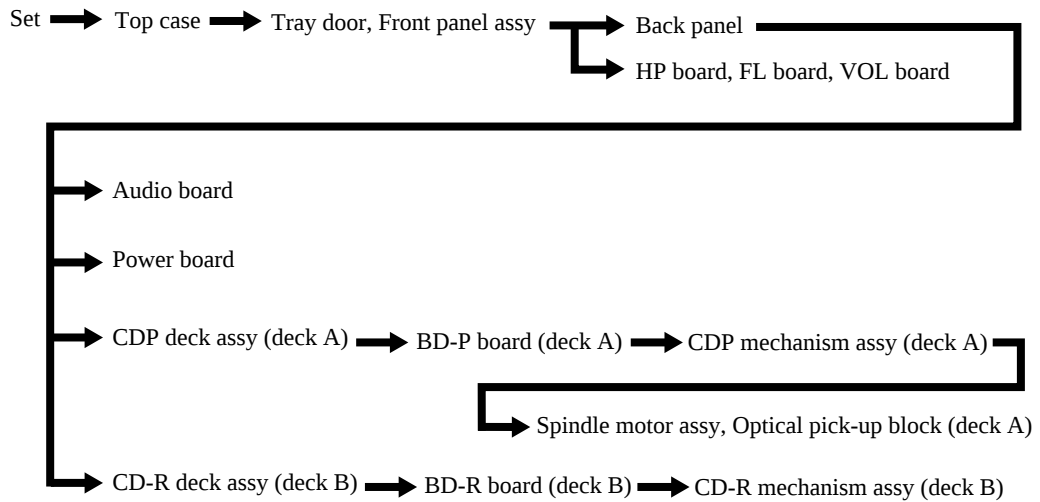
Parts and Controls



- | | |
|--------------------------------------|--|
| 1 POWER button | 14 ■(stop) button -Deck B |
| 2 ▷ (play) button -Deck A | 15 INPUT button |
| 3 OPEN/CLOSE ⇄ button -Deck A | 16 LEVEL SYNC button |
| 4 ◀◀ AMS ▶▶ buttons -Deck A | 17 ERASE button |
| 5 Disc tray-Deck A | 18 FINALIZE button |
| 6 Display window | 19 CD SYNCHRO NORMAL/HIGH buttons |
| 7 Disc tray-Deck B | 20 TIME button |
| 8 ◀◀ AMS ▶▶ buttons -Deck B | 21 RELAY button |
| 9 OPEN/CLOSE ⇄ button -Deck B | 22 ■(stop) button -Deck A |
| 10 ▷ (play) button -Deck B | 23 (pause) button -Deck A |
| 11 REC ● button -Deck B | 24 PHONES jack |
| 12 REC LEVEL knob | 25 PHONE LEVEL knob |
| 13 (pause) button -Deck B | |

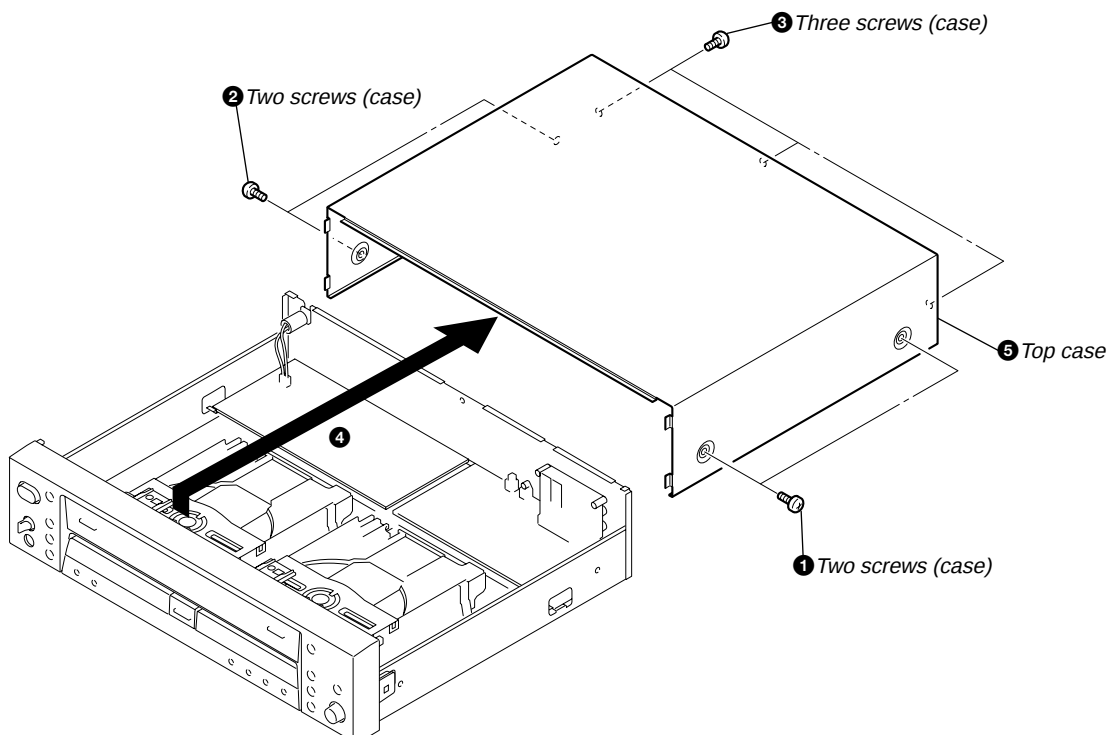
SECTION 3 DISASSEMBLY

Note: Disassemble the unit in the order as shown below.



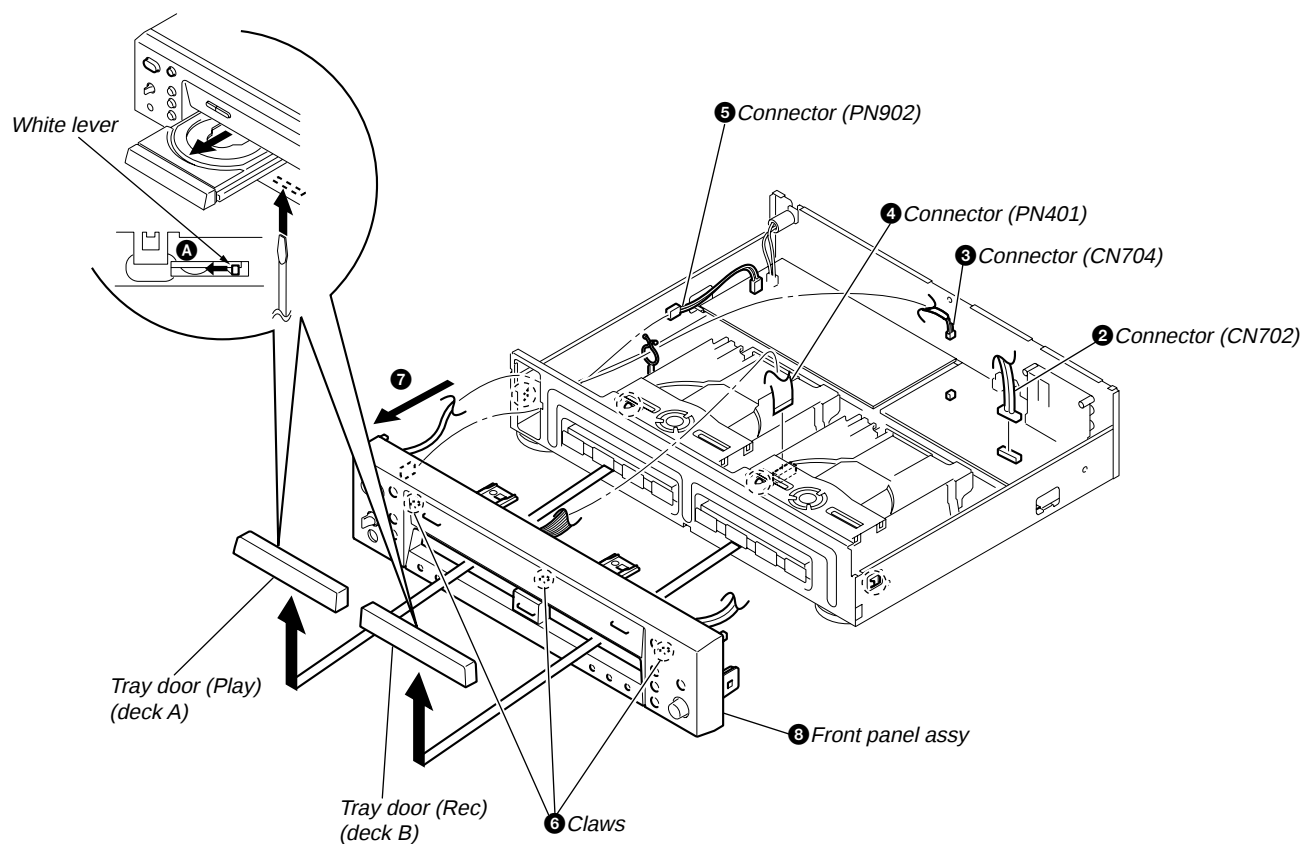
Note: Follow the disassembly procedure in the numerical order given.

3-1. TOP CASE

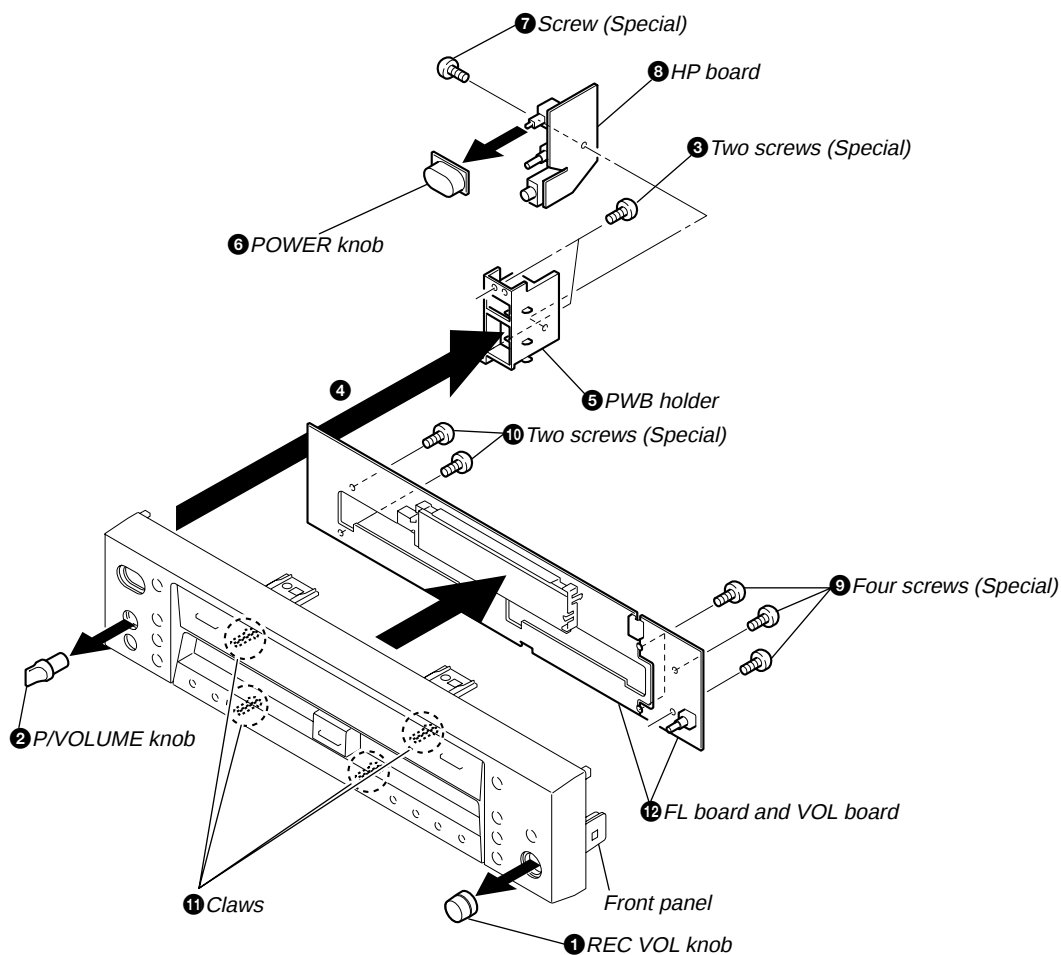


3-2. TRAY DOOR, FRONT PANEL ASSY

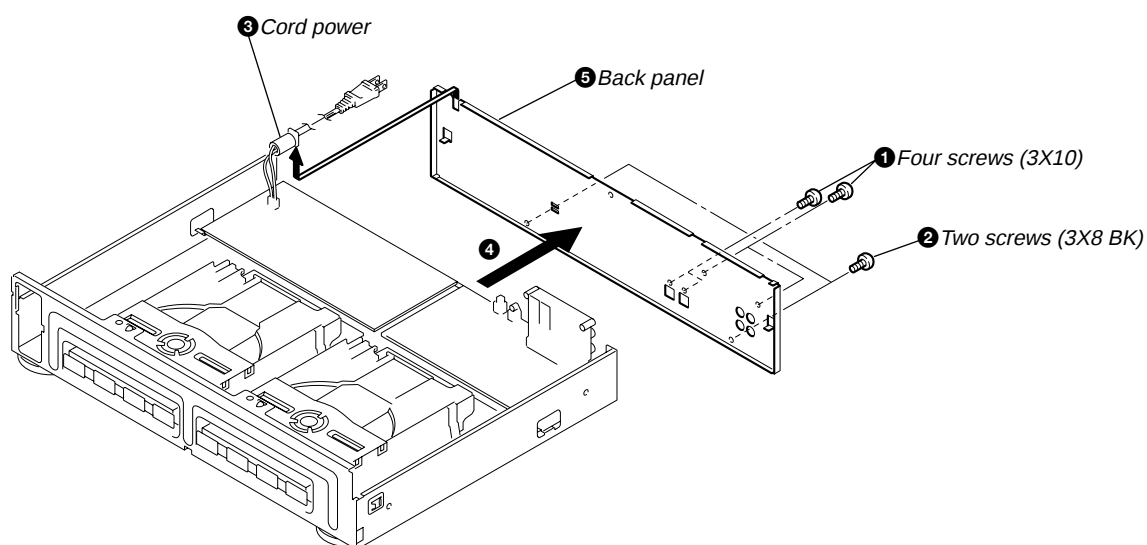
- ① Insert a screwdriver to the square hole on the bottom, and slide the white lever in the arrow A direction to open the tray.
Then remove the tray door.
(In the case of DECK B, remove it in the same manner.)



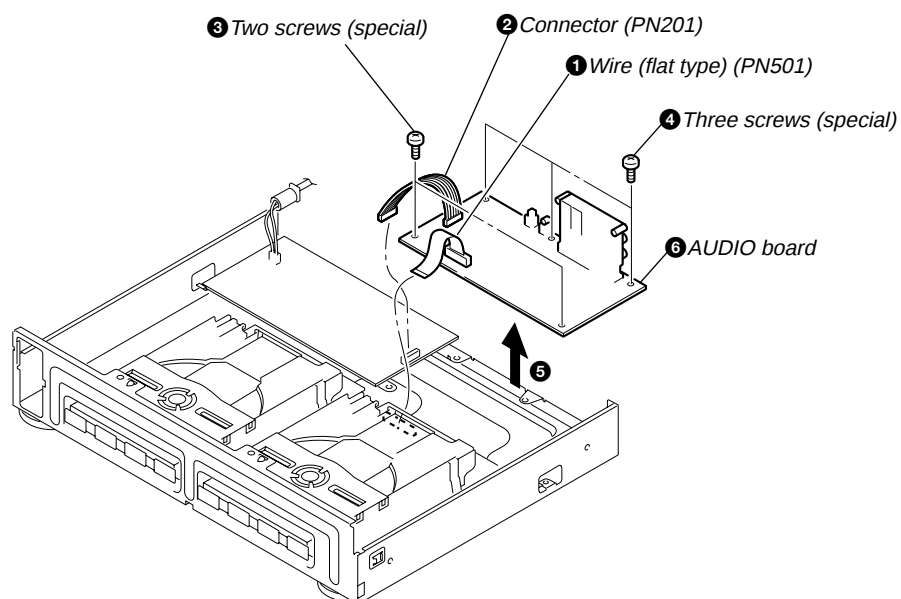
3-3. HP BOARD, FL BOARD, VOL BOARD



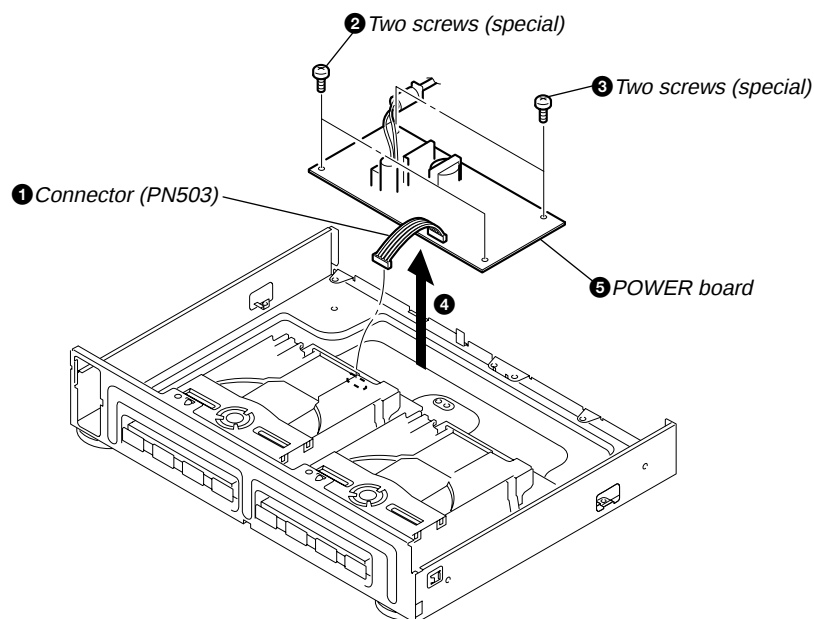
3-4. BACK PANEL



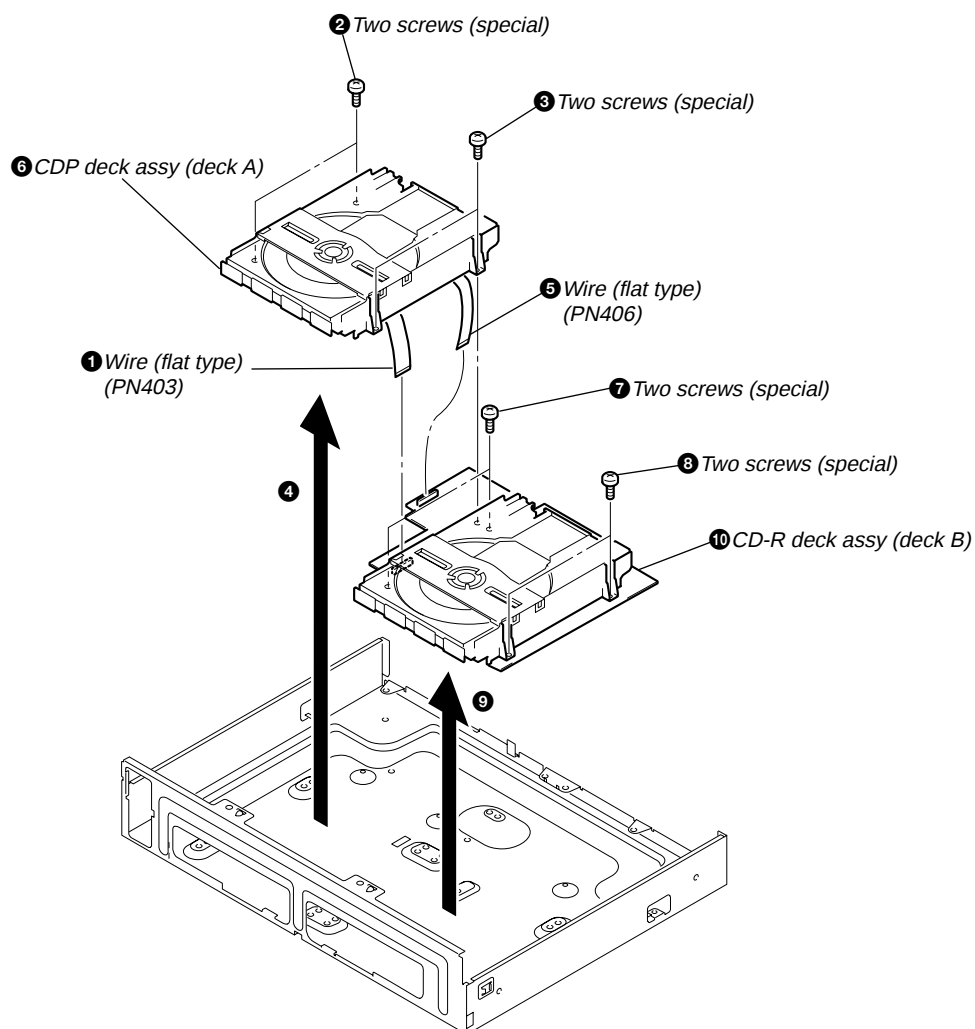
3-5. AUDIO BOARD



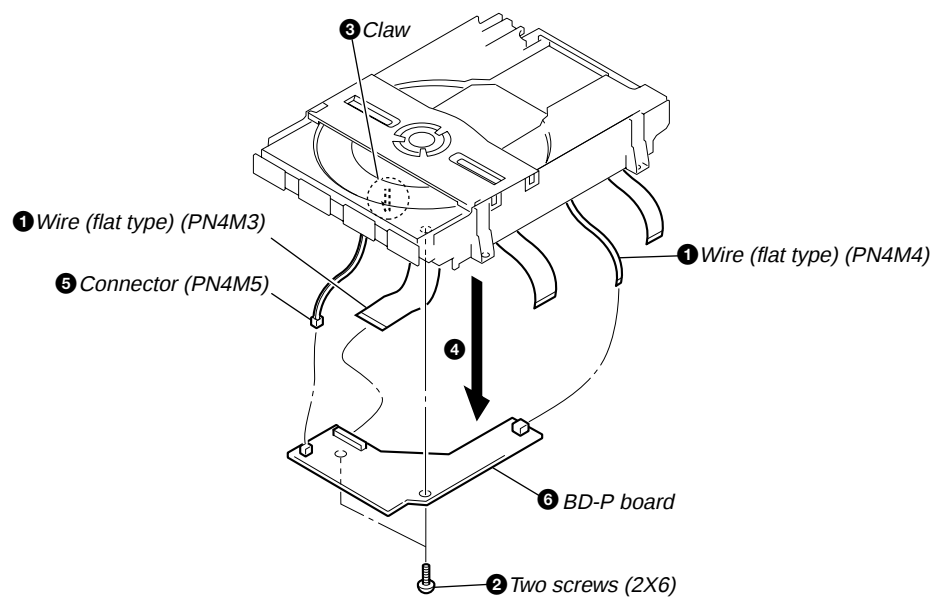
3-6. POWER BOARD



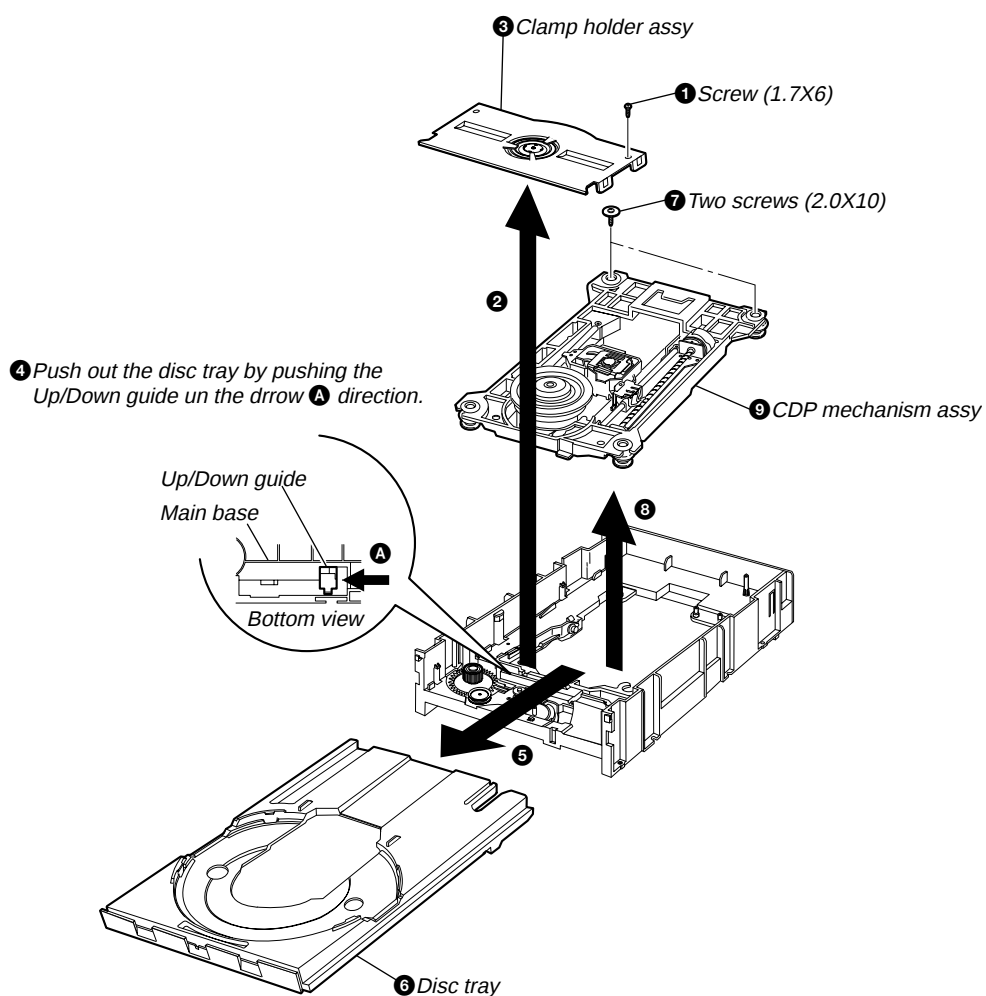
3-7. CDP DECK ASSY (DECK A), CD-R DECK ASSY (DECK B)



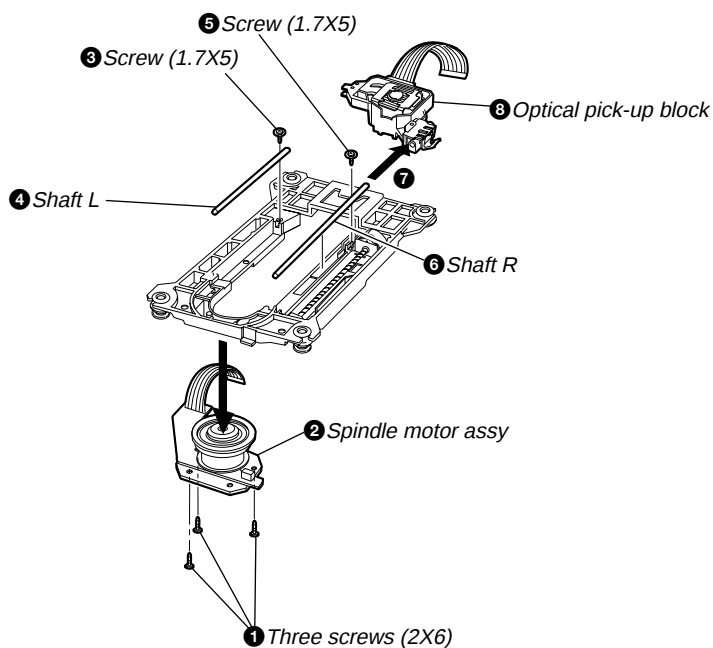
3-8. BD-P BOARD (DECK A)



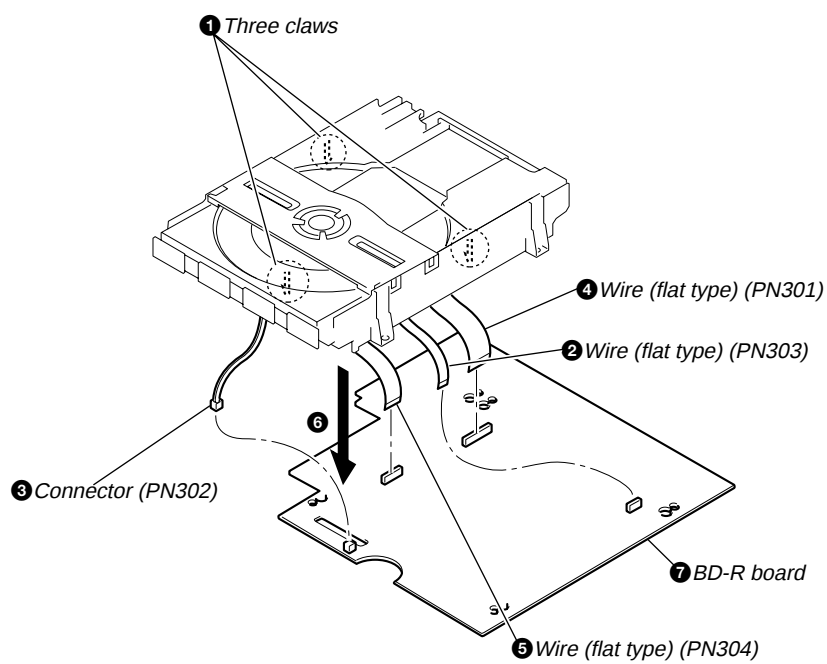
3-9. CDP MECHANISM ASSY (DECK A)



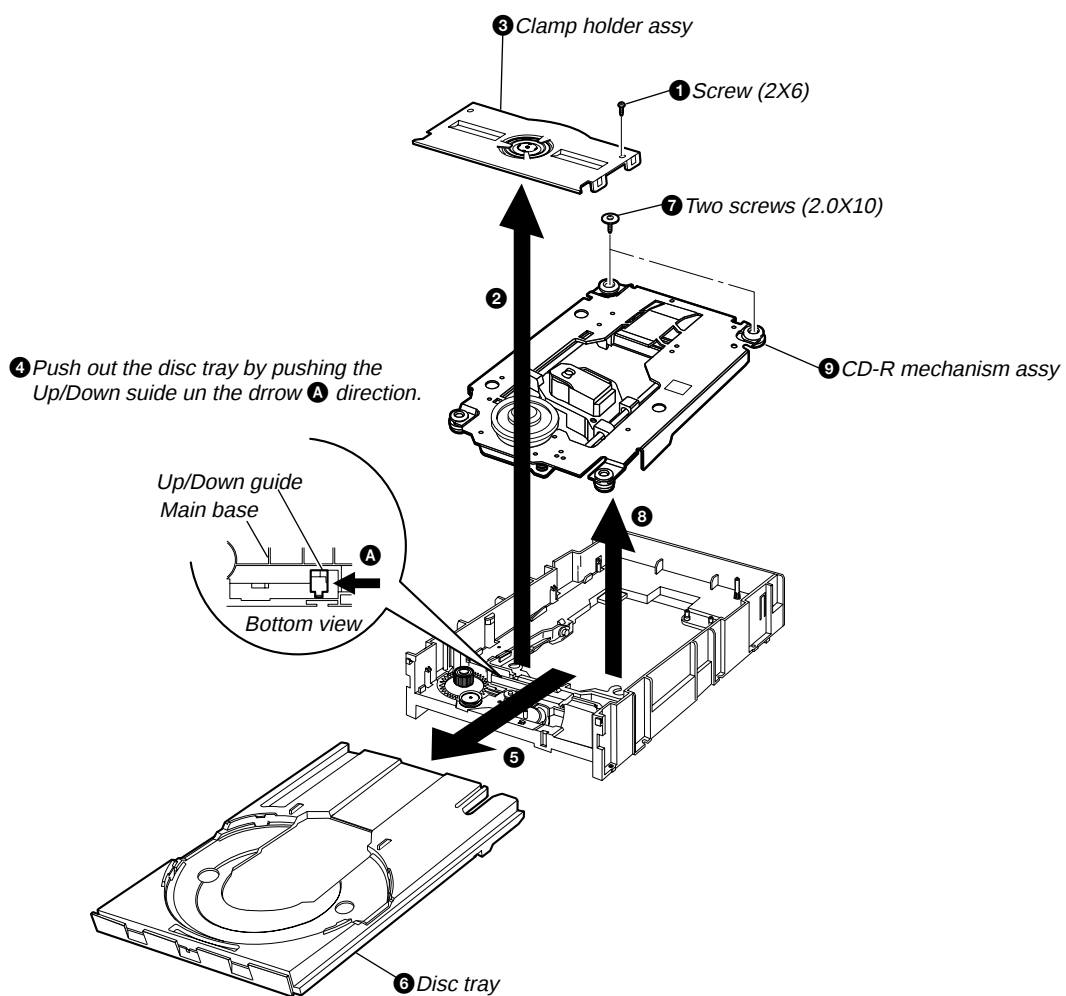
3-10. SPINDLE MOTOR ASSY, OPTICAL PICK-UP BLOCK (DECK A)



3-11. BD-R BOARD (DECK B)



3-12. CD-R MECHANISM ASSY (DECK B)



SECTION 4

ELECTRICAL ADJUSTMENT

LD Power Adjustment

Jigs used on this adjustment

- LD Power Meter

A laser power meter 10mW or more measurable is required. Don't use the laser power meter for Mini disc because of 10mW max.

Optical power meter (TQ8210): Product of ADVANTEST (on the market).

A thin type optical sensor (Q82017A): Product of ADVANTEST (on the market).

- PC Connection Jig (J-2501-210-A)

- Test Program FD

Dragon program Tool DV810 Ver. 0.9A

(This test program is distributed with the service manual.)

- PC (Windows 95/98)

- RS-232C Cable (on the market) D-SUB 9 pin, straight type

- Test Disc for Operation Check

A low reflecting rate disc for checking playback performance. OK: It can be played back.

- Low reflecting CD-R disc: TCD-R082LMT (J-2502-063-1)

- Low reflecting CD-RW disc: TCD-W082L (J-2502-063 -2)

- CD test disc (YEDS-18) (3-702-101-01)

- Extension cable (4p, 1.0mm) (J-8000-023-A)

Laser Power Adjustment (CD-R Only)

In case of the following parts are replaced, this adjustment is required.

1. CD-R optical pick-up block (KRS-220C)

2. IC208 (EP- ROM)

Specification of Dragon Program Usage Environment

The Dragon Program programmed by API function of Windows 95 can be surely operated on the Windows 95/98 platform.

It isn't guaranteed on the other platform.

Start up

Procedure:

1. Connect the PC connection jig with the RS-232C cable between the test connector (PN105) on CD-R of RCD-W3 and COM port on PC.(Check SW501 on the PC connection jig to "D" side.)
2. Turn power on RCD-W3.
3. Execute Dragon_dv810_svc.exe on Windows.
(Two files Dragon_dv810_svc.exe and Dragon_dv810.cfg are displayed on the setup menu window.)
4. Select "Setup I/F" on "Setup" pull-down menu, then "Select I/F Method" window is open.
5. Select Com Port matching to the Com Port connected the PC connection jig.
6. Select "38400" of "Select Transfer Rate".
7. Click OK.



Fig 1 : Dragon menu and setup menu windows

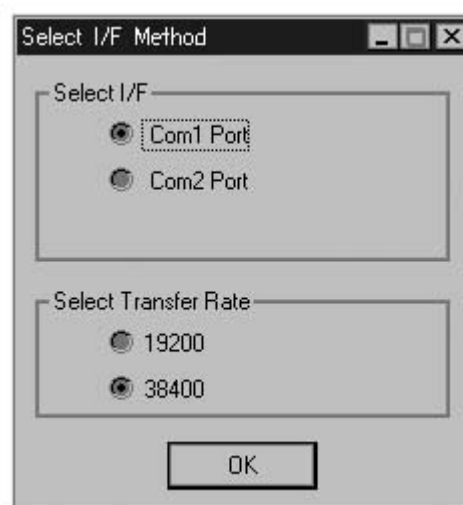


Fig 2 : Select I/F method window

CD-R LD Setting Check (VRDC/VWDC/FPD Level Value Check)

This routine is for checking performances of the record/playback D-A converter (IC304), the encoder/decoder IC (IC301), CPLD (IC207), the optical pick-up block (KRS-220C), the microcomputer(IC203) and so on.

It diagnoses malfunctions of interface, the pick-up or so on.

It diagnoses the circuit in the recording mode without disc.

Description of each item

OFF LEVEL: In case of the laser turns off, FPDO output is 3V. Sampling value at this time.

VRDC LEVEL: APC circuit VRDC signal sampling value after READ power setting.

VRDC FPD: Optical pick-up FPDO signal sampling value after READ power setting.

VWDC1 LEVEL: APC circuit VWDC signal sampling value after setting WRITE power to regular value.

VWDC1 FPD: Optical pick-up FPDO signal sampling value after setting WRITE power to regular value.

VWDC2-1 FPD: There are two types of characteristics because of a non-linearity period of laser diode in the over drive portion. This is FPDO sampling value in case of setting one of them to VWDC2 value.

VWDC2-2 FPD: FPDO sampling value in case of setting the other to VWDC2 value.

Specification of each item

$38400-3300 < \text{OFF_LEVEL} < 38400+3300$ ($3.0 \pm 0.25\text{V}$)

$10 < \text{VRDC_LEVEL} < 20000$

$880 < \text{VRDC_FPD} < 1320$

$2000 < \text{VWDC1_LEVEL} < 25000$

$6160 < \text{VWDC1_FPD} < 12960$

$10 < \text{VWDC2-1_FPD} < 15000$

$2500 < \text{VWDC2-2_FPD} < 20000$

Procedure:

1. Eject a disc from CD-R.
2. Select "Laser Inspection" on "LD Inspection" pull-down menu, then "Laser Power Test" window is open.
3. Click Trigger to execute LD check.
4. LD checked results are displayed.
(“OK”/“NG” is displayed for every items.)
5. Click X to close "Laser Power Test" window.



Fig 3 : LD inspection menu windows

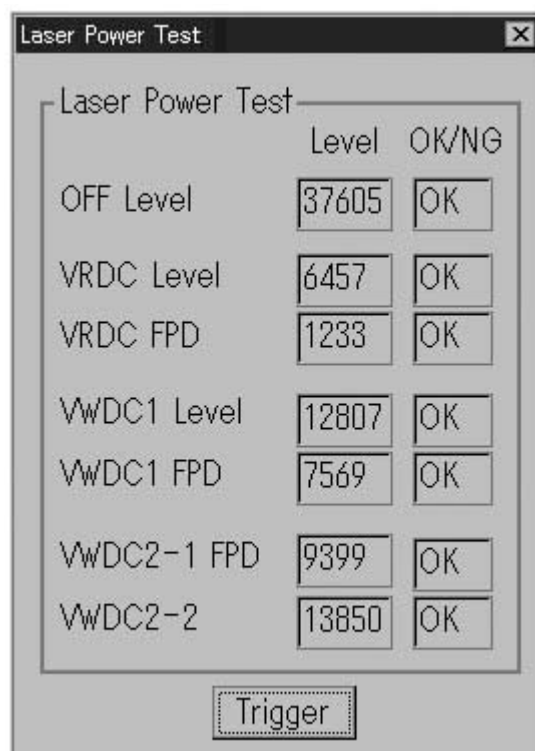


Fig 4 : Laser power test window

CD-R LD Power Setting (VRDC/VWDC1 Resetting)

The optical pick-up and ICs in the circuit have a characteristics individually. In this routine, the parameters related to the recording/playback power are actually measured and set properly.

The parameters are VRDC, VWDC1, VWDC2, VWDC2 Offset and so on. The reading power and playback power are set properly by computing the related parameters on the basis of actually measuring values.

The preset parameters are used on power setting in case of performing Read/Write CD-R, CD-RW and so on.

Actual operation: The microcomputer receives serial data, then executes the related performances, and send parameter values to PC. PC checks its related parameters and judges OK/NG.

Description of each parameter

- VRDC: Used on the Read Power setting in case of reading CD-RW and CD-R. (DAC value on 100mW.)
- VWDC: There is VWDC1 (Write power) pin in the optical pick-up block. The recording power is set by it and VWDC2 (Over drive) pin. Used on setting VWDC1 pin power on recording. (Unit: DAC value/10mW)
- VWDC2: Used on setting VWDC2 (Over drive) pin power on recording. (Unit: DAC value/5mW)
- VWDC2 Offset: Used on setting VWDC2 (Over drive) pin power with VWDC2 parameter on recording. (Unit: DAC value)

Specification of each parameter

- 20<read power<200
- 100<write power<2000
- 30<VRDC<150
- 48<VWDC1<150
- 50<VWDC2<145
- VWDC2 Offset<35



Fig 5 : LD inspection menu windows

Procedure:

1. Eject a disc from CD-R.
2. Select “Laser Power Setup” on “LD Inspection” pull-down menu, then “Laser Power Setup (Manual)” window is open.
3. Click VRDC, then Pick-up moves outward and LD turns on.
4. Measure the LD power with a LD power meter. Write its value to the blank of “Read Power” column.
(Write a value to two decimal places. Ex: Write “93” in case of 0.93mW.)
5. Click VWDC1, then LD turns on.
6. Measure the LD power with a LD power meter. Write its value to the blank of “Write Power” column.
(Write a value to two decimal places. Ex: Write “1234” in case of 12.34mW.)
7. Click LD Off to turn LD off.
8. Click Setup, then setting is over and a result is displayed.
(“OK”/“NG” is displayed for every items.)
9. Click X to close “Laser Power Setup (Manual)” window.

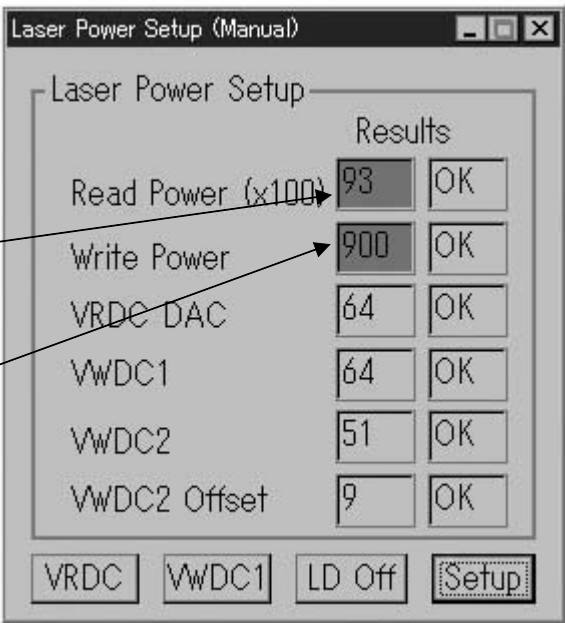


Fig 6 : Laser power setup window

Adjustment Data Check

Check if the error has occurred on reading “CD-R LD POWER SETTING” value.

Procedure:

1. Select “Calibration” on “Calibration” pull-down menu, then “Read Calibration Results” window is open.
2. Click Read, then the calibration data are displayed.
3. Data specification
 - CD-R VRDC DAC: 30-150
 - VWDC1: 48-150
 - VWDC2: 50-145
 - VWDC2 Offset: 0-35
4. Click X to close “Read Calibration Results” window.



Fig 7 : Calibration menu windows

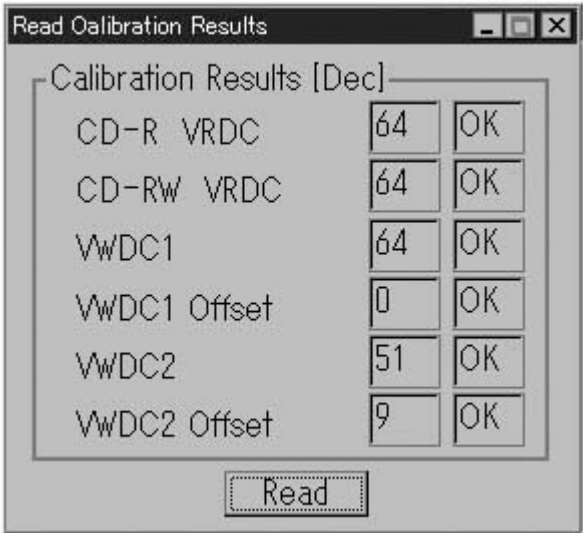
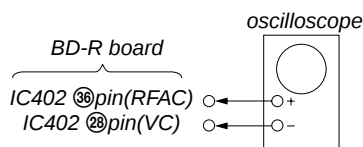


Fig 8 : Read calibration results window

SERVO Check**CD SECTION**

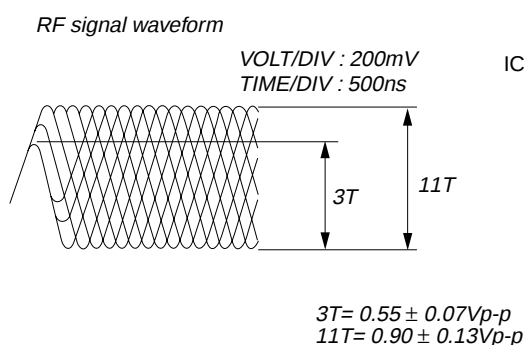
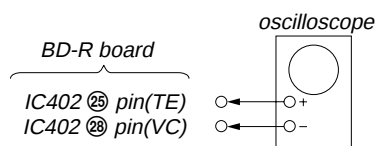
Note :

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc unless otherwise indicated.
3. Use an oscilloscope with more than $10M\Omega$ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

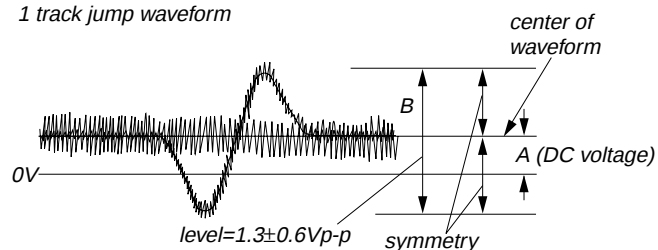
RF Level Check**Procedure :**

1. Connect oscilloscope to IC402 36 pin (RFAC) and IC402 28 pin (VC).
2. Turned Power switch on.
3. Load a disc (YEDS-18) and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

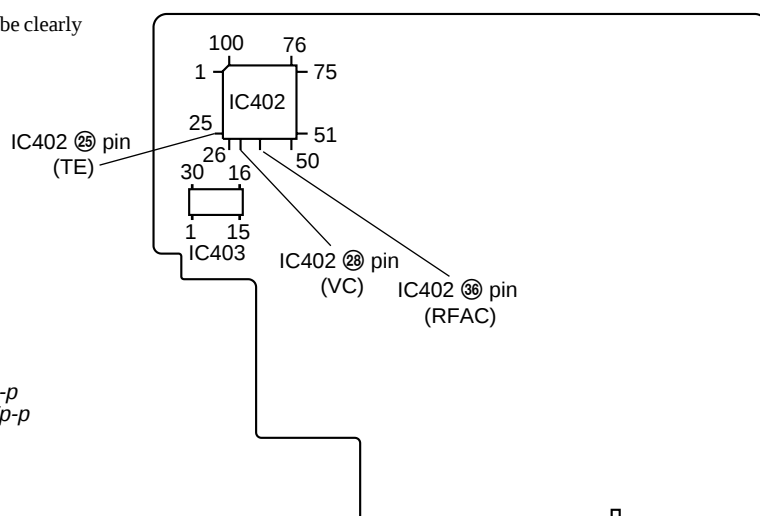
Note : Clear RF signal waveform means that the shape “ $\diamond$ ” can be clearly distinguished at the center of the waveform.

**E-F Balance (1 Track jump) Check****Procedure :**

1. Connect oscilloscope to IC402 25 pin (TE) and IC402 28 pin (VC).
2. Turned Power switch on.
3. Load a disc (YEDS-18) and playback the number five track.
4. Press the  button. (Becomes the 1 track jump mode.)
5. Confirm that the level B and A (DC voltage) on the oscilloscope waveform.

1 track jump waveform

Specified level: $\frac{A}{B} \times 100 = \text{less than } \pm 22\%$

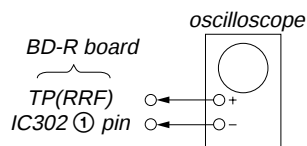
Adjustment Location:**[BD BOARD] (SIDE B)**

CD-R SECTION

Note :

1. CD Block is basically designed to operate without adjustment.
Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent
when the signal level is low than specified value with the following checks.

RF Level Check

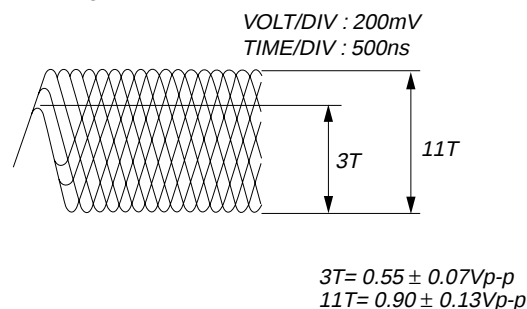


Procedure :

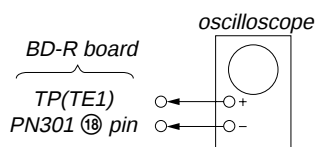
1. Connect oscilloscope to TP (RRF) and IC302 ① pin.
2. Turned Power switch on.
3. Load a disc (YEDS-18) and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note : Clear RF signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.

RF signal waveform



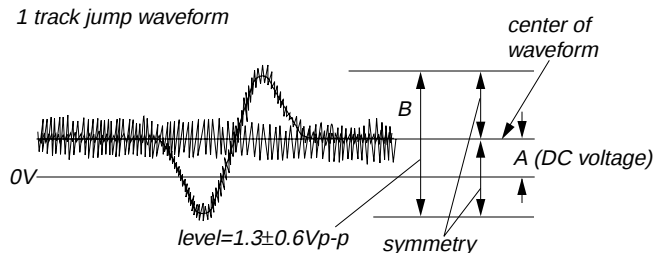
E-F Balance (1 Track jump) Check



Procedure :

1. Connect oscilloscope to TP (TE1) and PN301 ⑱ Pin.
2. Turned Power switch on.
3. Load a disc (YEDS-18) and playback the number five track.
4. Press the [] button. (Becomes the 1 track jump mode.)
5. Confirm that the level B and A (DC voltage) on the oscilloscope waveform.

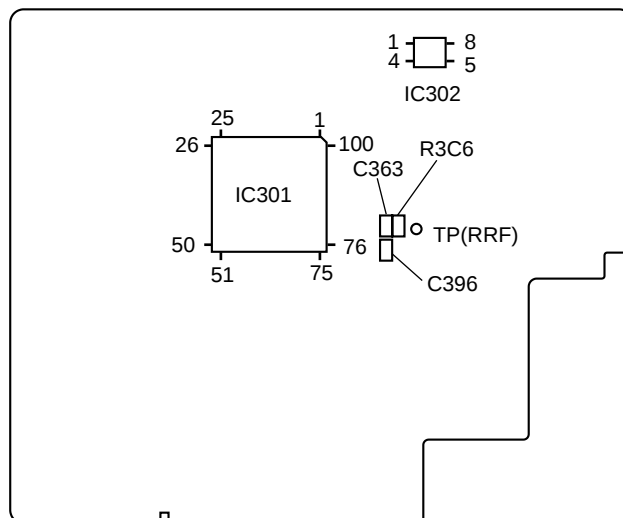
1 track jump waveform



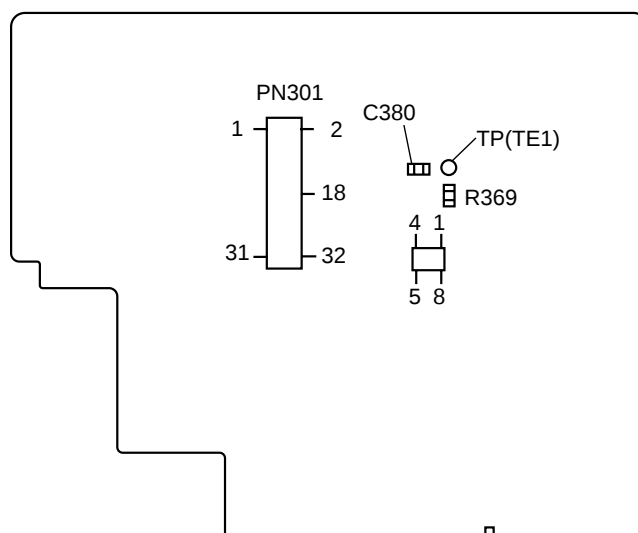
Specified level: $\frac{A}{B} \times 100 = \text{less than } \pm 22\%$

Adjustment Location:

[BD-R BOARD] (SIDE A)



[BD-R BOARD] (SIDE B)



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 schematic diagrams.

Note:

- All capacitors are in μF unless otherwise noted. pF : μF
- 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- % : indicates tolerance.
- Δ : internal component.
- : panel designation.

Note:

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

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

- — : B+ Line.
- --- : B- Line.
- □ : adjustment for repair.
- AC voltage readings in the bias oscillator with a level meter.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- no mark : STOP
- () : PLAY
- < > : REC (CD-R only)
- Voltages are taken with a VOM (Input impedance $10\text{ M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

• Signal path.

- ⇒ : CD
- ⇒⇒ : CD (digital)
- ⇒⇒⇒ : CD REC
- ⇒⇒⇒ : CD REC (digital)

• Abbreviation

CND : Canadian model

For printed wiring boards.

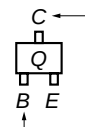
Note:

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

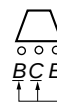
Caution:

Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: Parts on the parts face side seen from the parts face are indicated.

• Indication of transistor



These are omitted

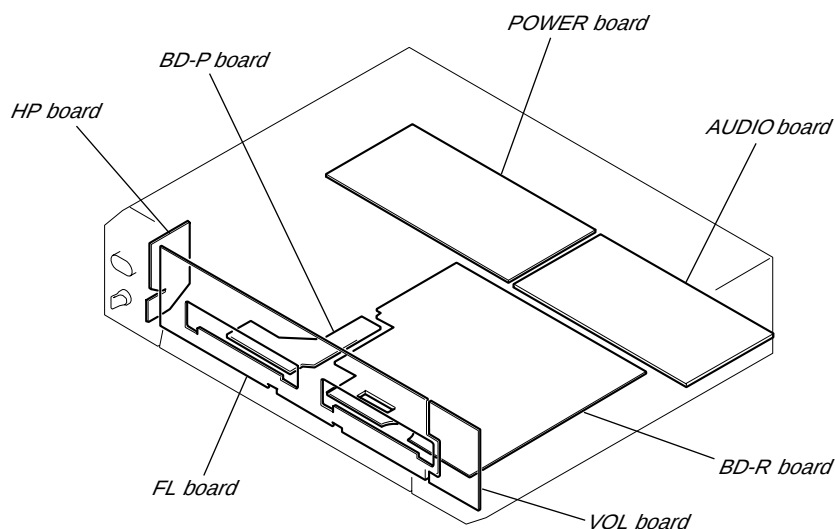


These are omitted

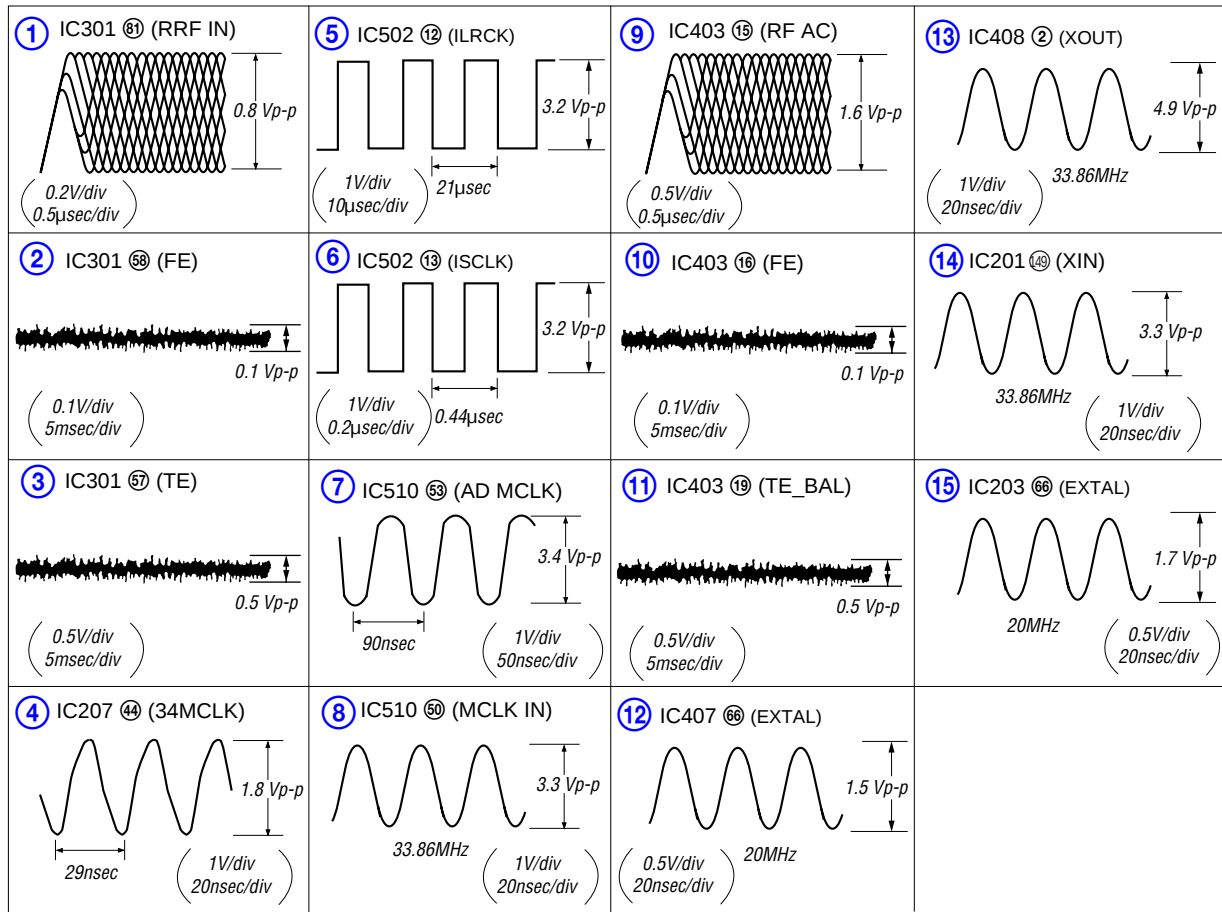
• Abbreviation

CND : Canadian model

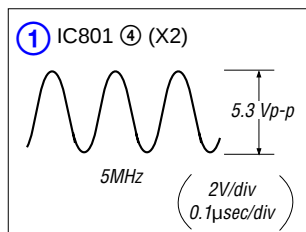
5-1. CIRCUIT BOARDS LOCATION



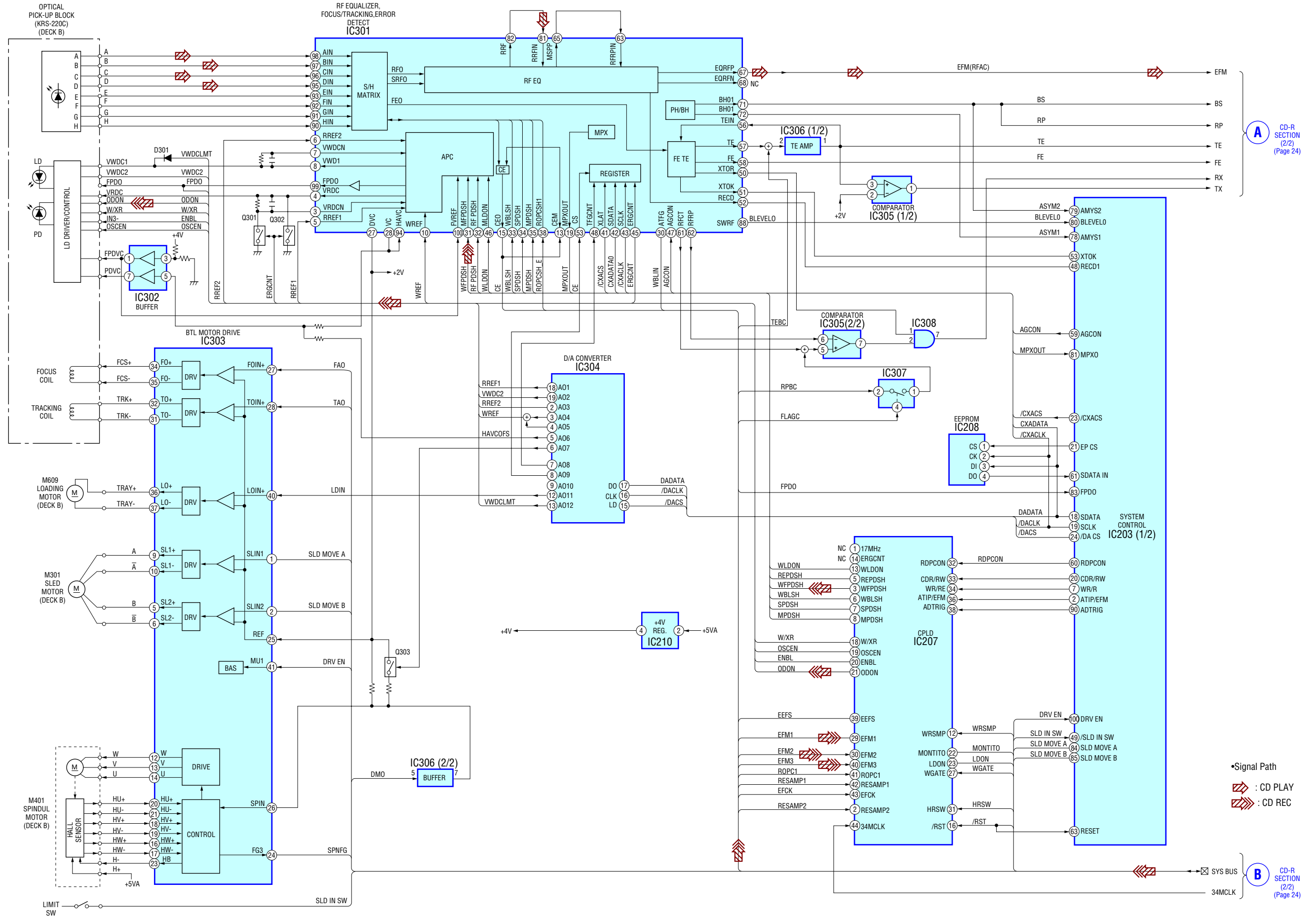
– BD-R SECTION –



– PANEL SECTION –

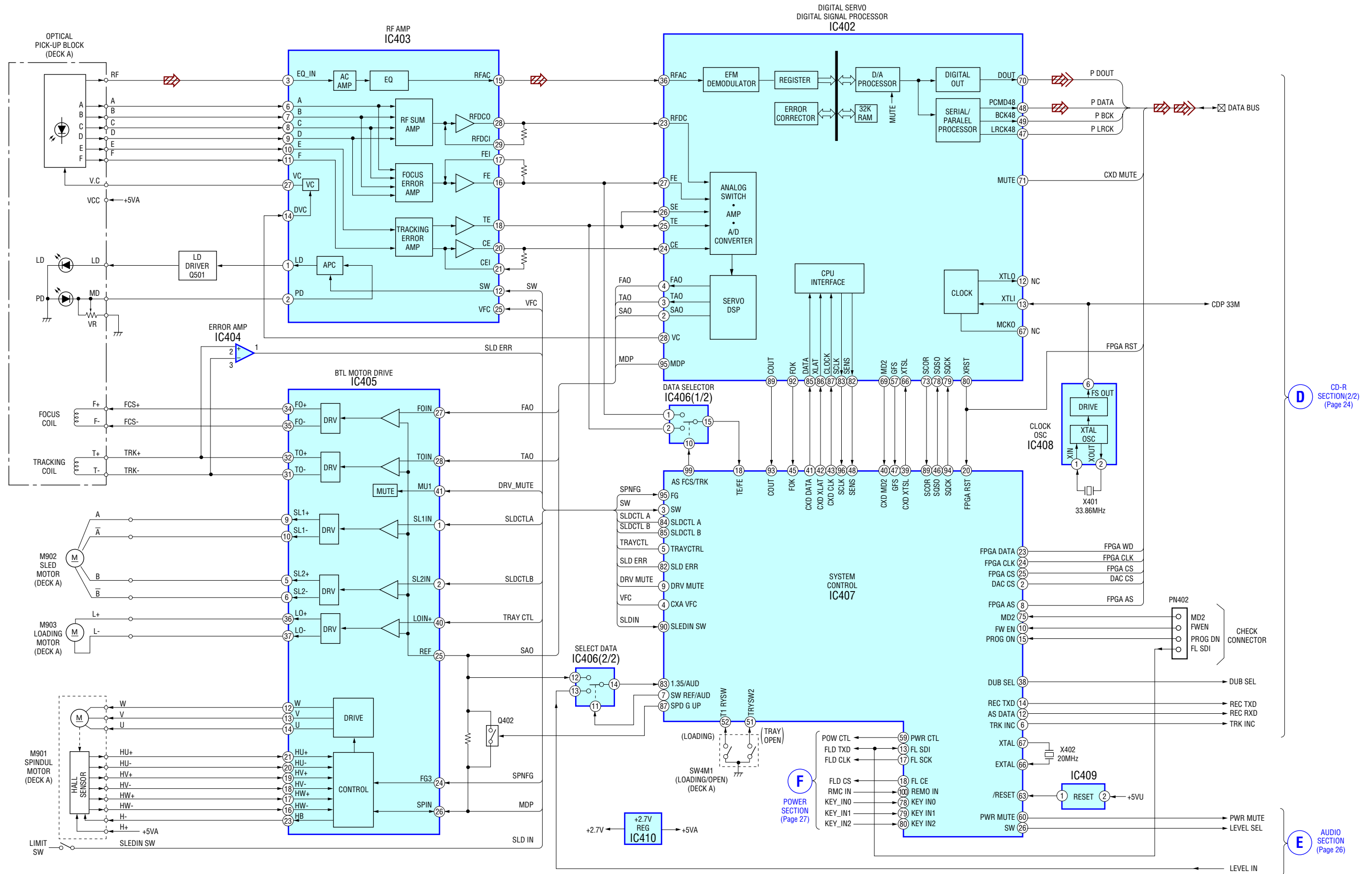


5-2. BLOCK DIAGRAMS – CD-R SECTION (1/2) –



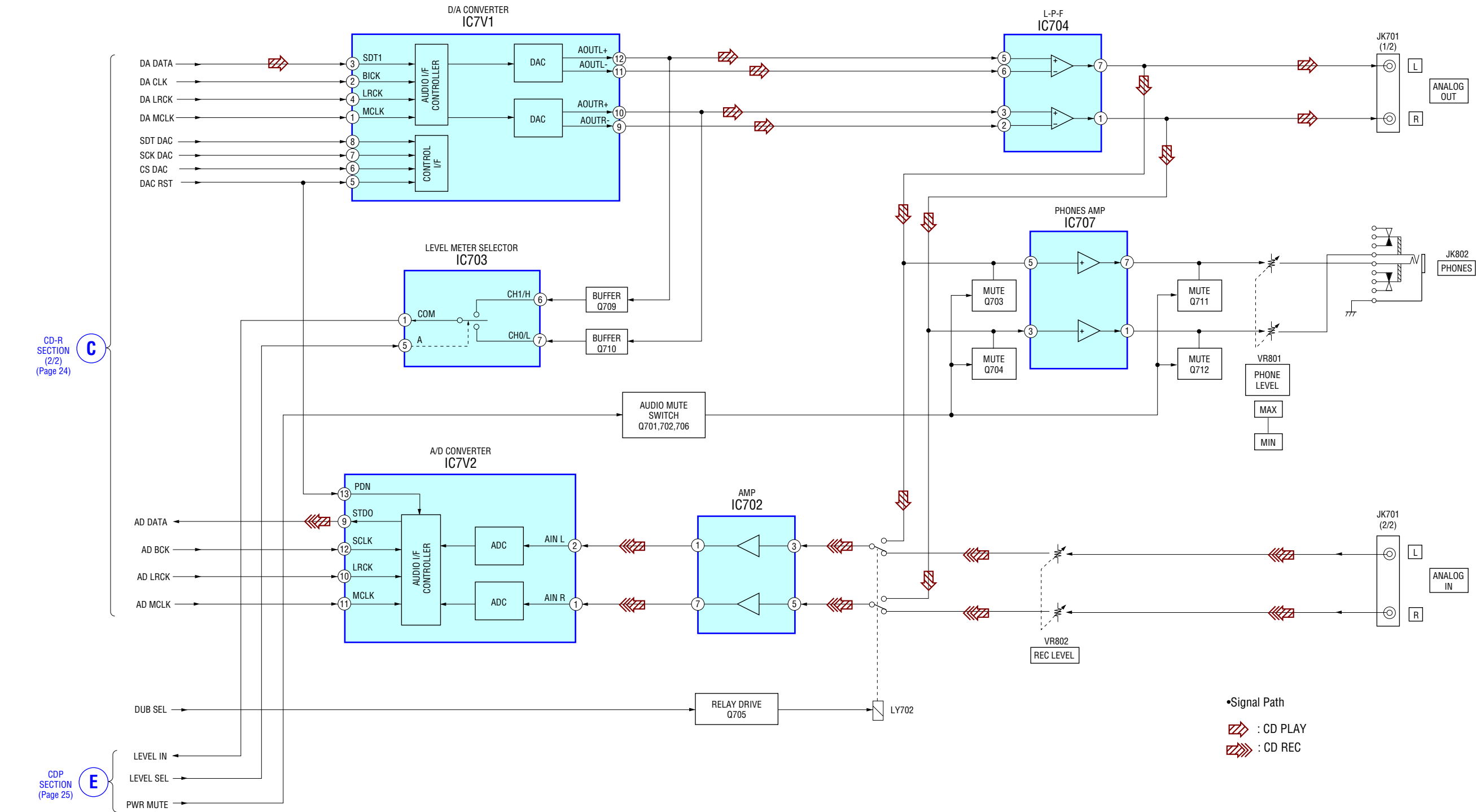


- CDP SECTION -

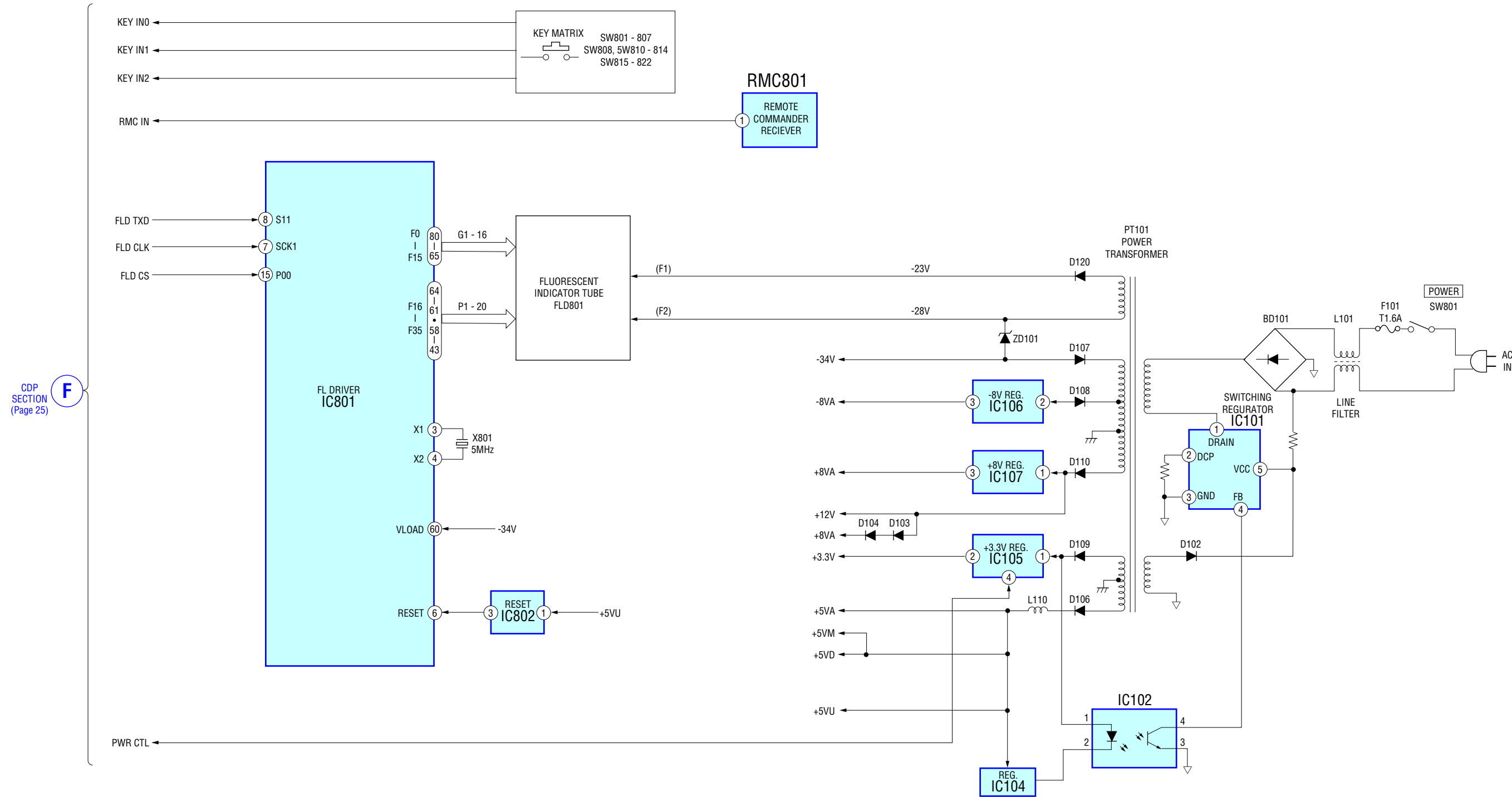


•Signal Path
 : CD PLAY
 : CD (DIGITAL)

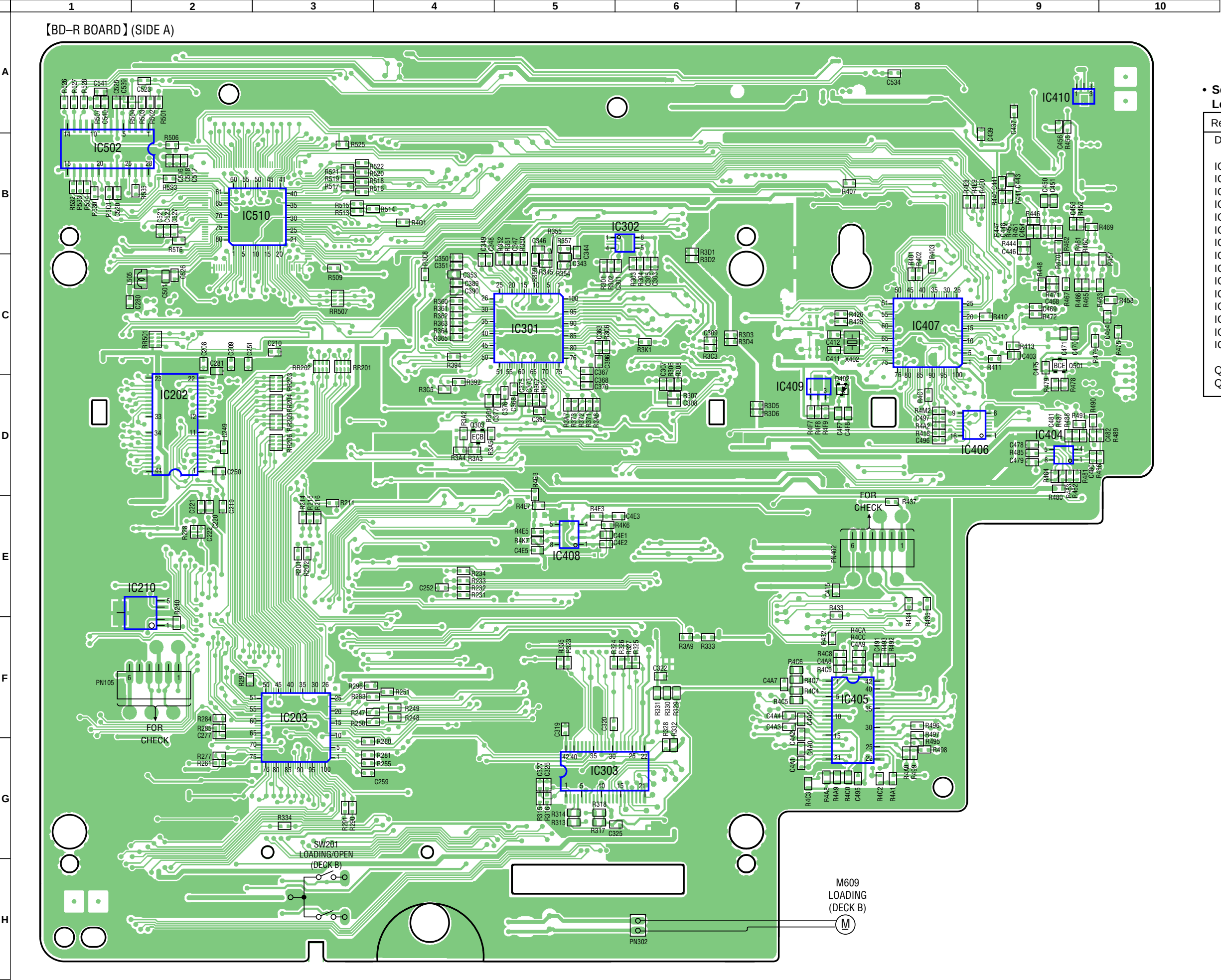
– AUDIO SECTION –



- POWER SECTION -

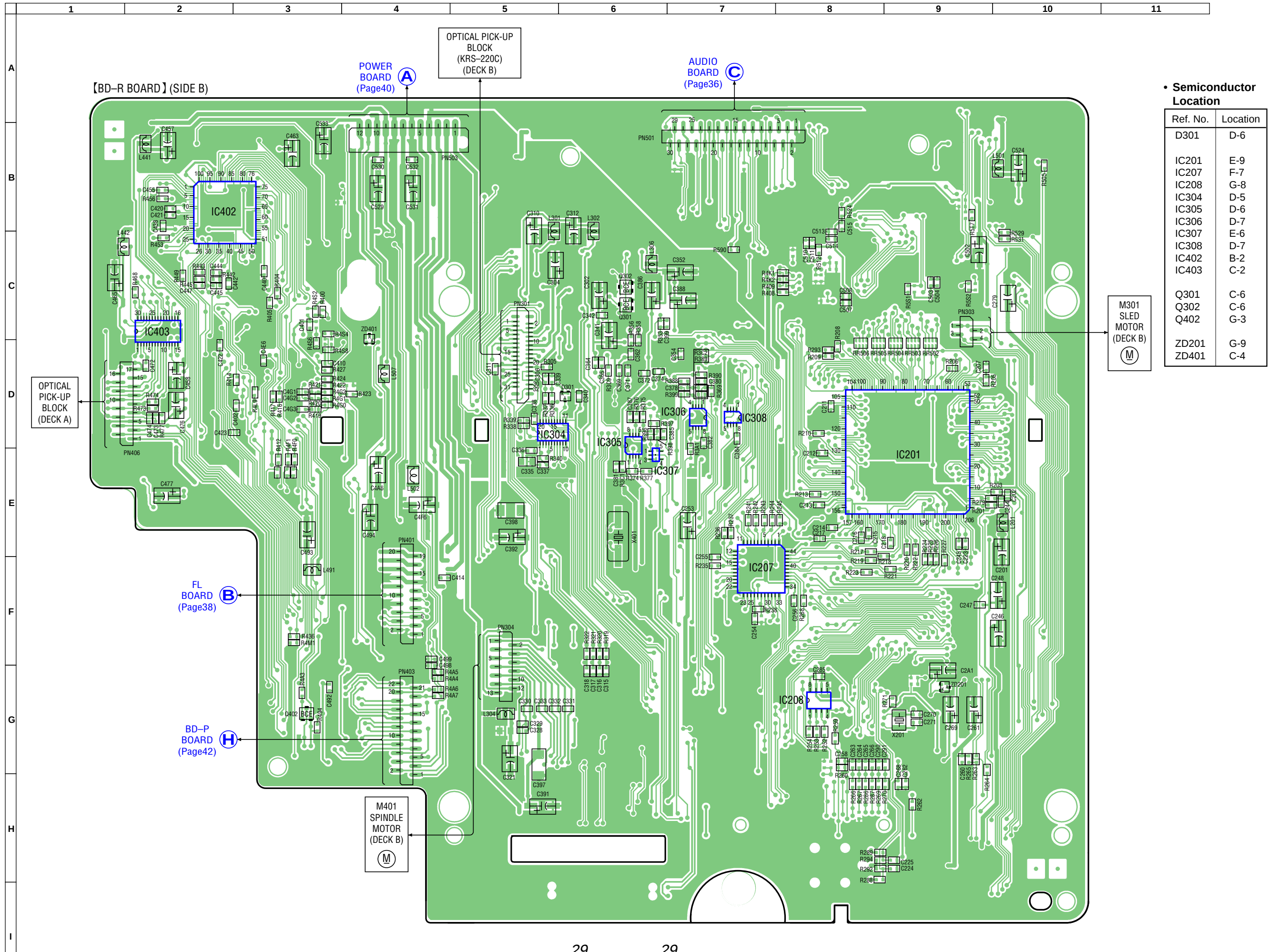


5-3.PRINTED WIRING BOARD – BD-R SECTION – • See page 21 for Circuit Board location.



• Semiconductor Location

Ref. No.	Location
D402	D-7
IC202	D-2
IC203	F-3
IC210	E-2
IC301	C-5
IC302	B-6
IC303	G-5
IC404	D-9
IC405	F-7
IC406	D-8
IC407	C-8
IC408	E-5
IC409	D-7
IC410	A-9
IC502	B-1
IC510	B-3
Q303	D-4
Q501	C-9

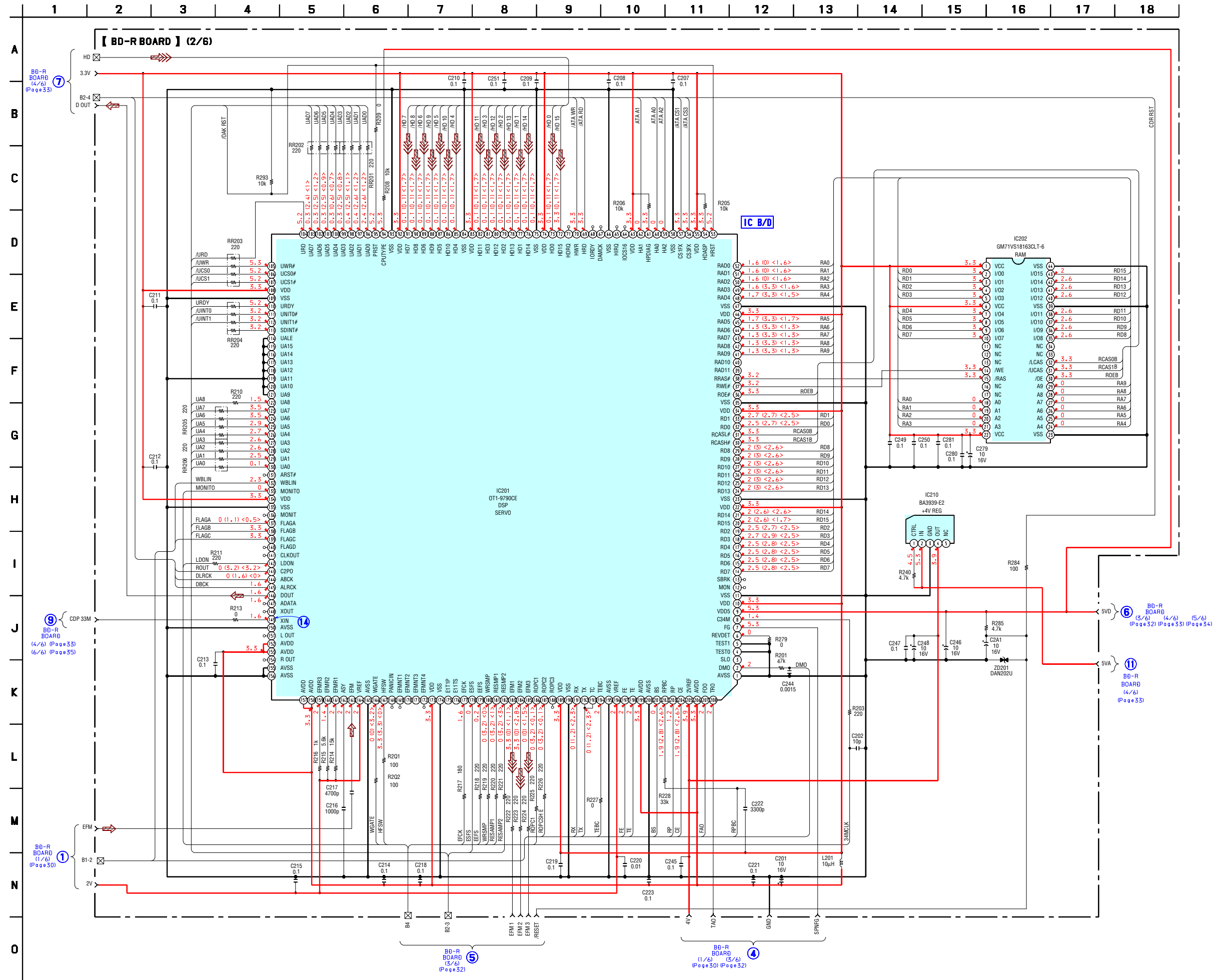


• Semiconductor Location

Ref. No.	Location
D301	D-6
IC201	E-9
IC207	F-7
IC208	G-8
IC304	D-5
IC305	D-6
IC306	D-7
IC307	E-6
IC308	D-7
IC402	B-2
IC403	C-2
Q301	C-6
Q302	C-6
Q402	G-3
ZD201	G-9
ZD401	C-4

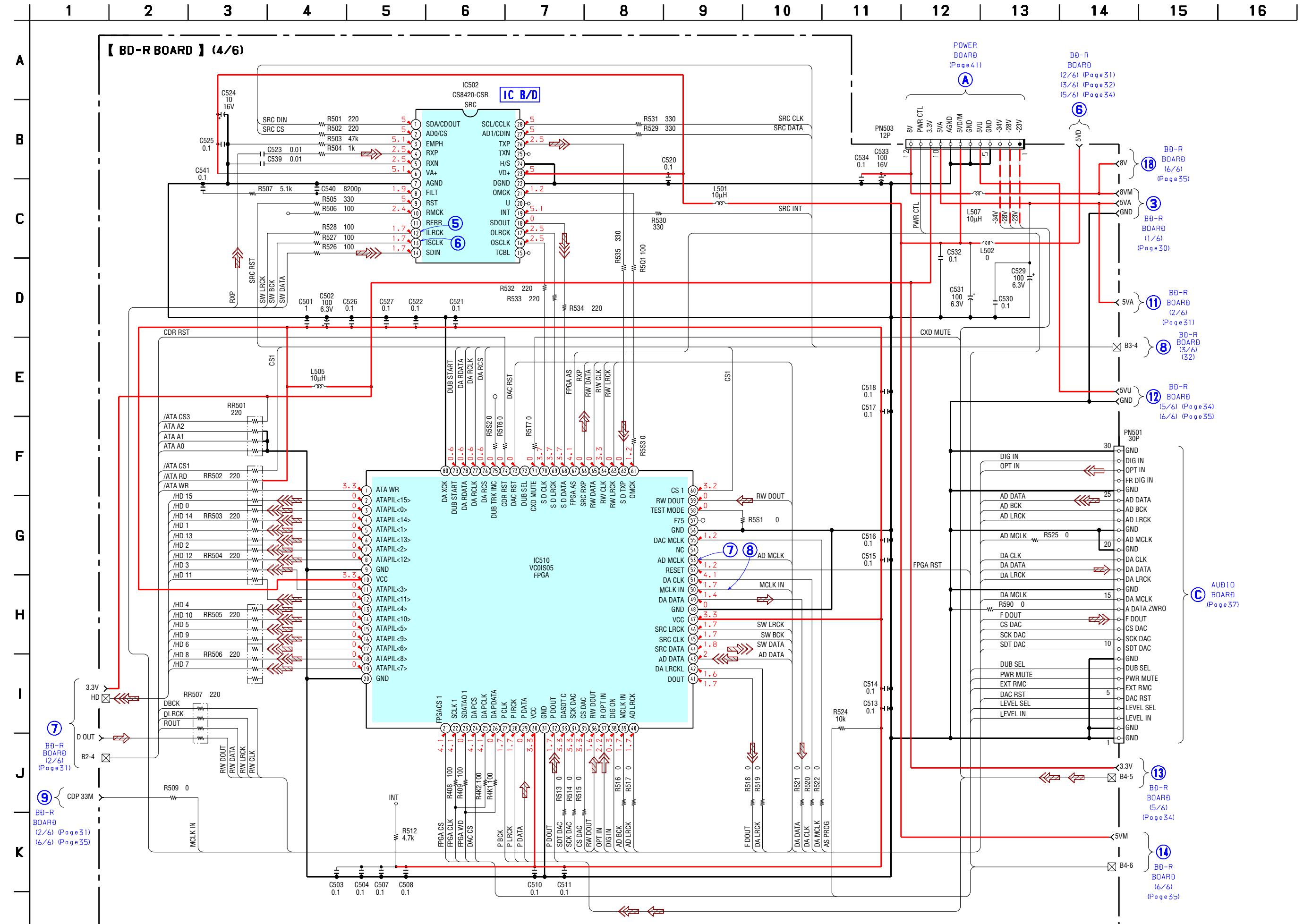


5-5.SCHEMATIC DIAGRAM – BD-R SECTION (2/6) –

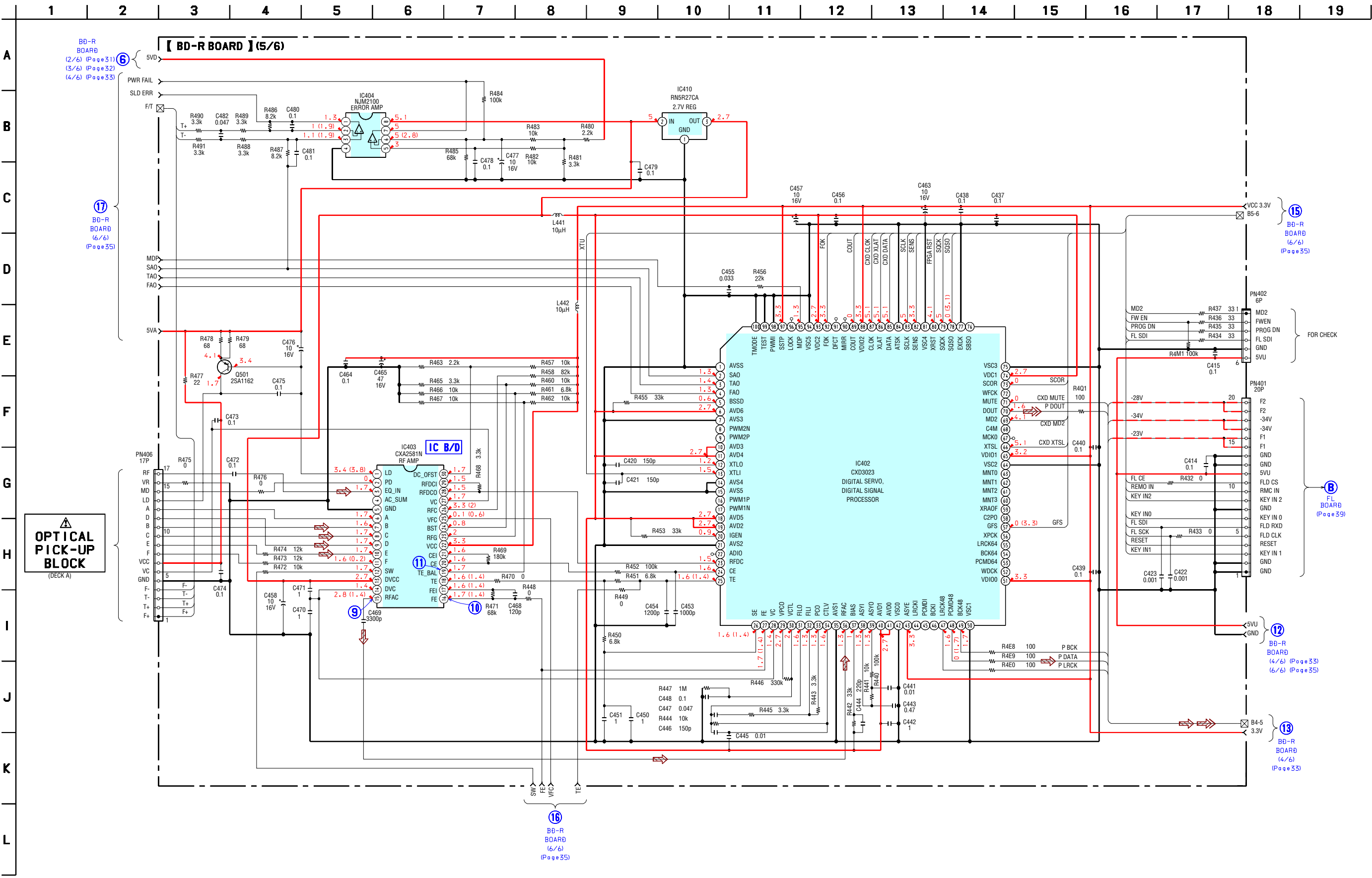




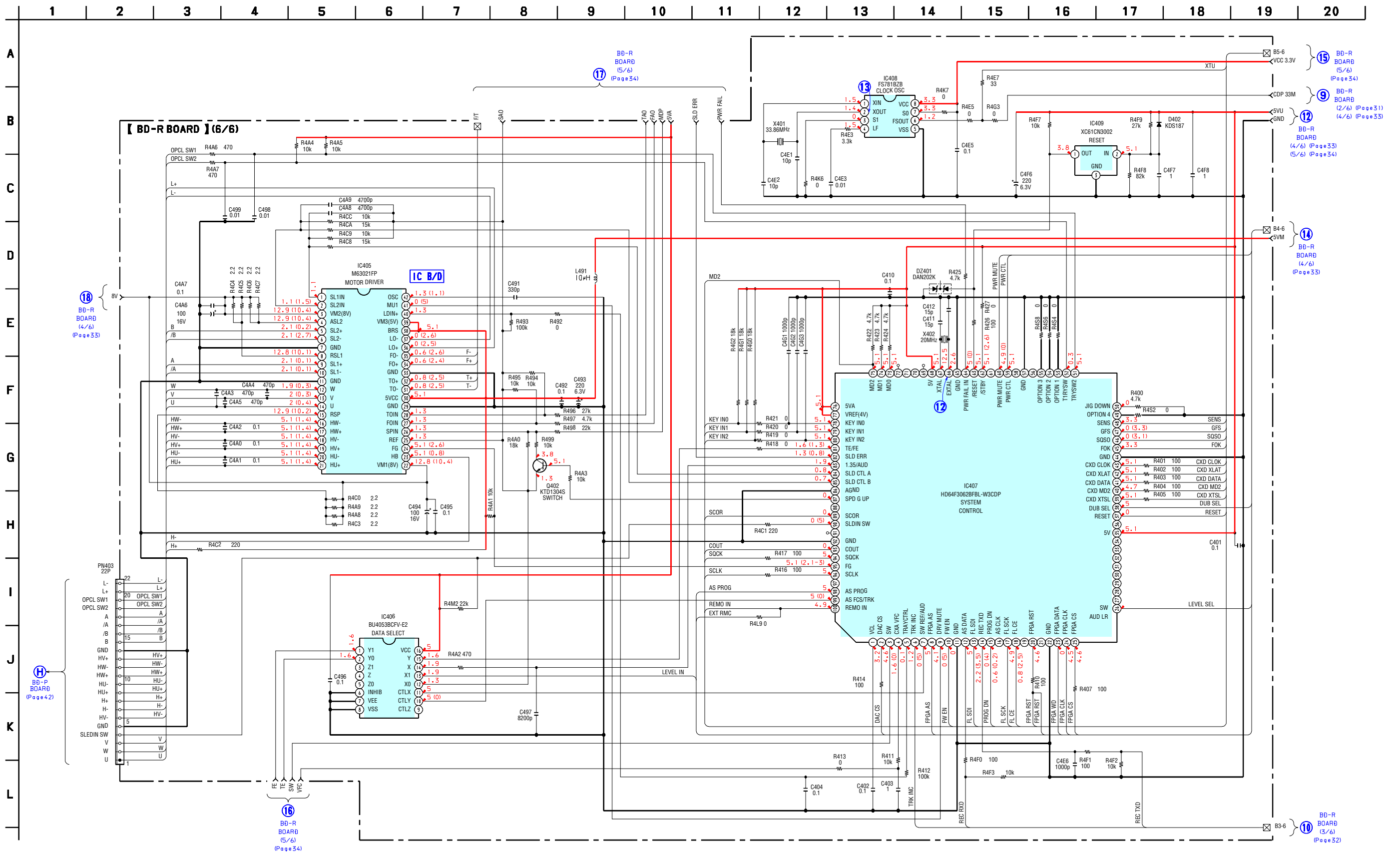
5-7.SCHEMATIC DIAGRAM – BD-R SECTION (4/6) –



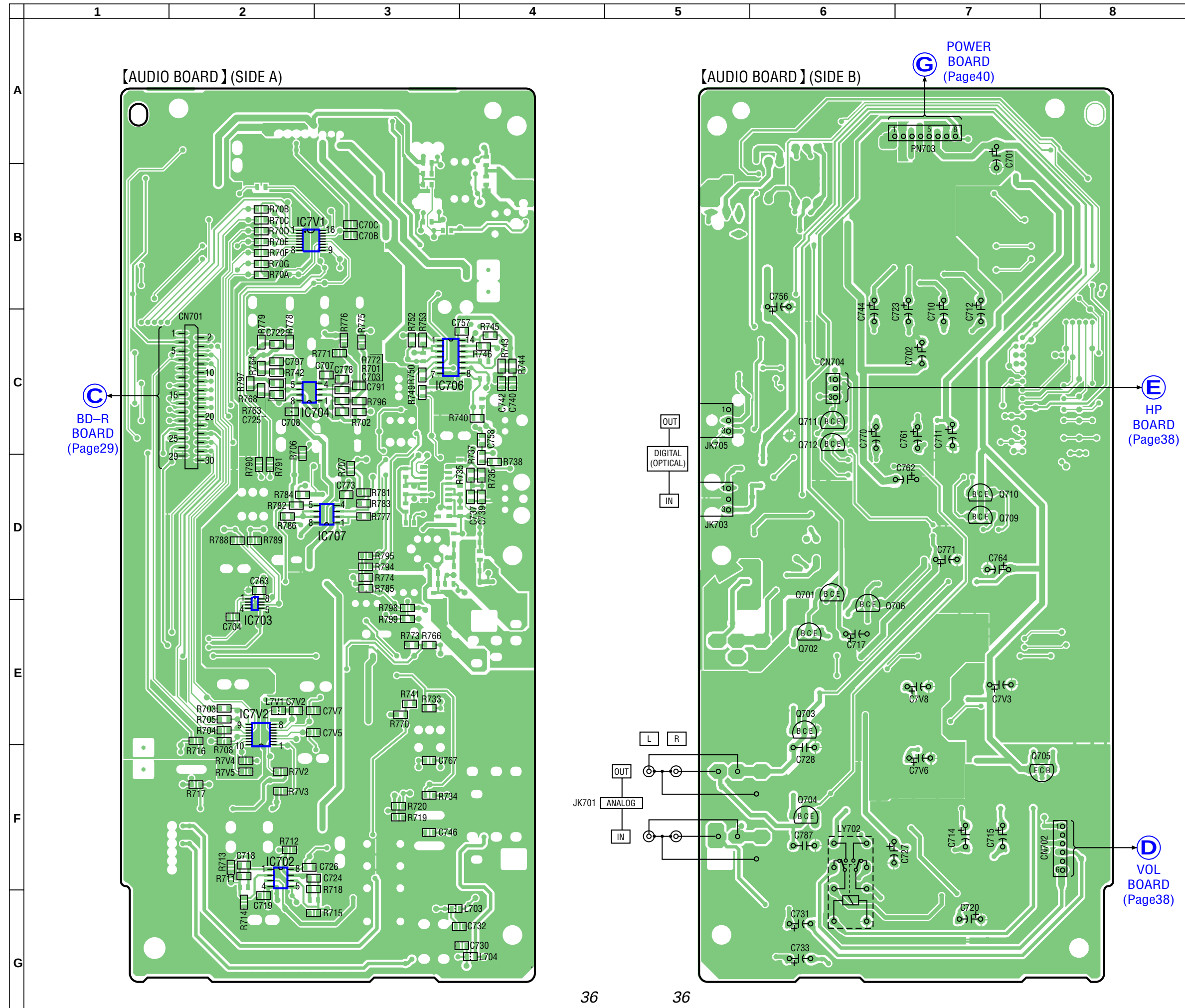
5-8.SCHEMATIC DIAGRAM - BD-R SECTION (5/6) -



5-9.SCHEMATIC DIAGRAM – BD-R SECTION (6/6) – • See page 46 for IC Pin Function Description.

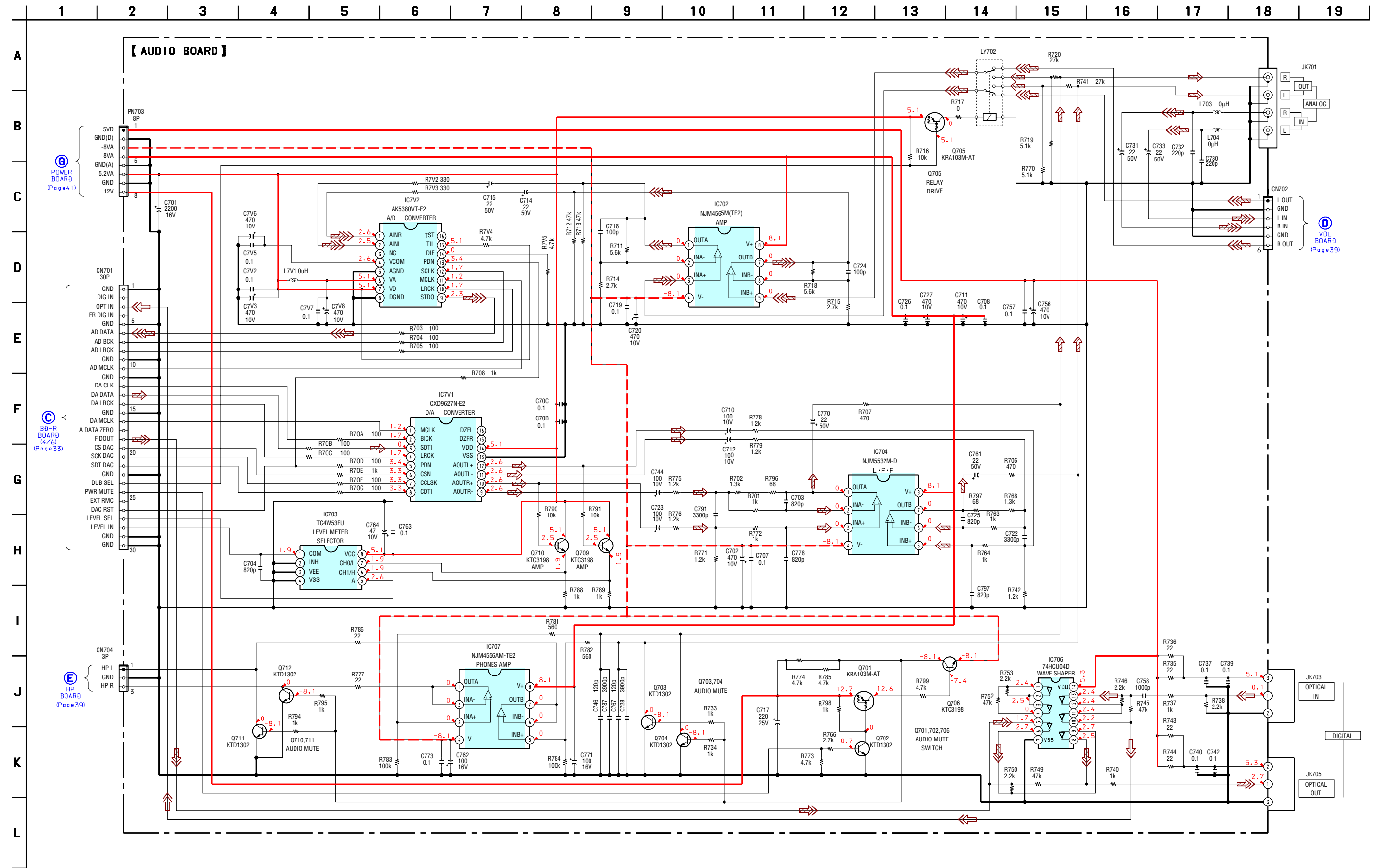


5-10.PRINTED WIRING BOARD – AUDIO SECTION – • See page 21 for Circuit Board location.

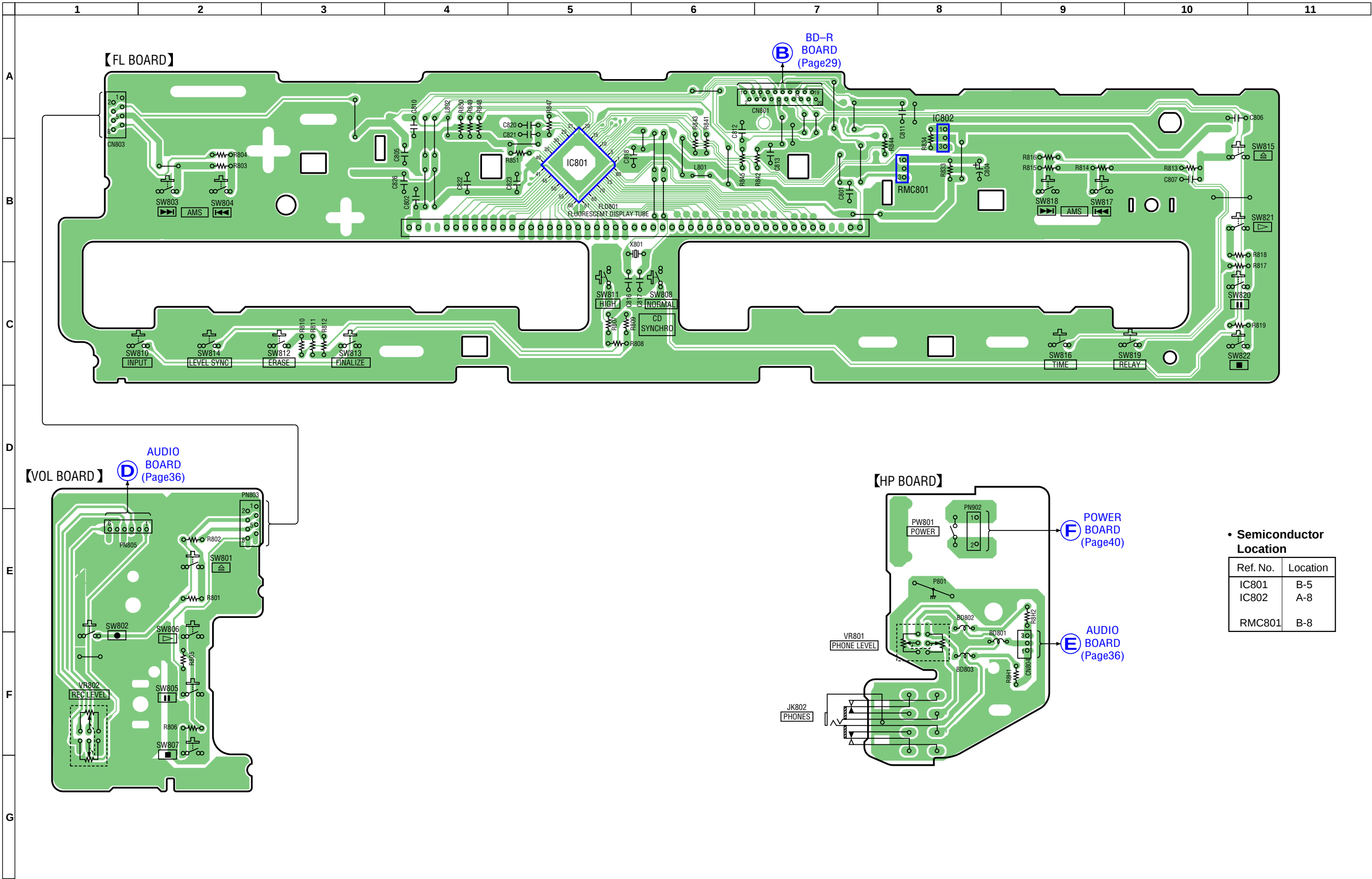


Ref. No.	Location
IC702	F-2
IC703	E-2
IC704	C-2
IC706	C-3
IC707	D-3
IC7V1	B-2
IC7V2	E-2
JK703	D-5
JK705	C-5
Q701	D-6
Q702	E-6
Q703	E-6
Q704	F-6
Q705	F-8
Q706	E-6
Q709	D-7
Q710	D-7
Q711	C-6
Q712	C-6

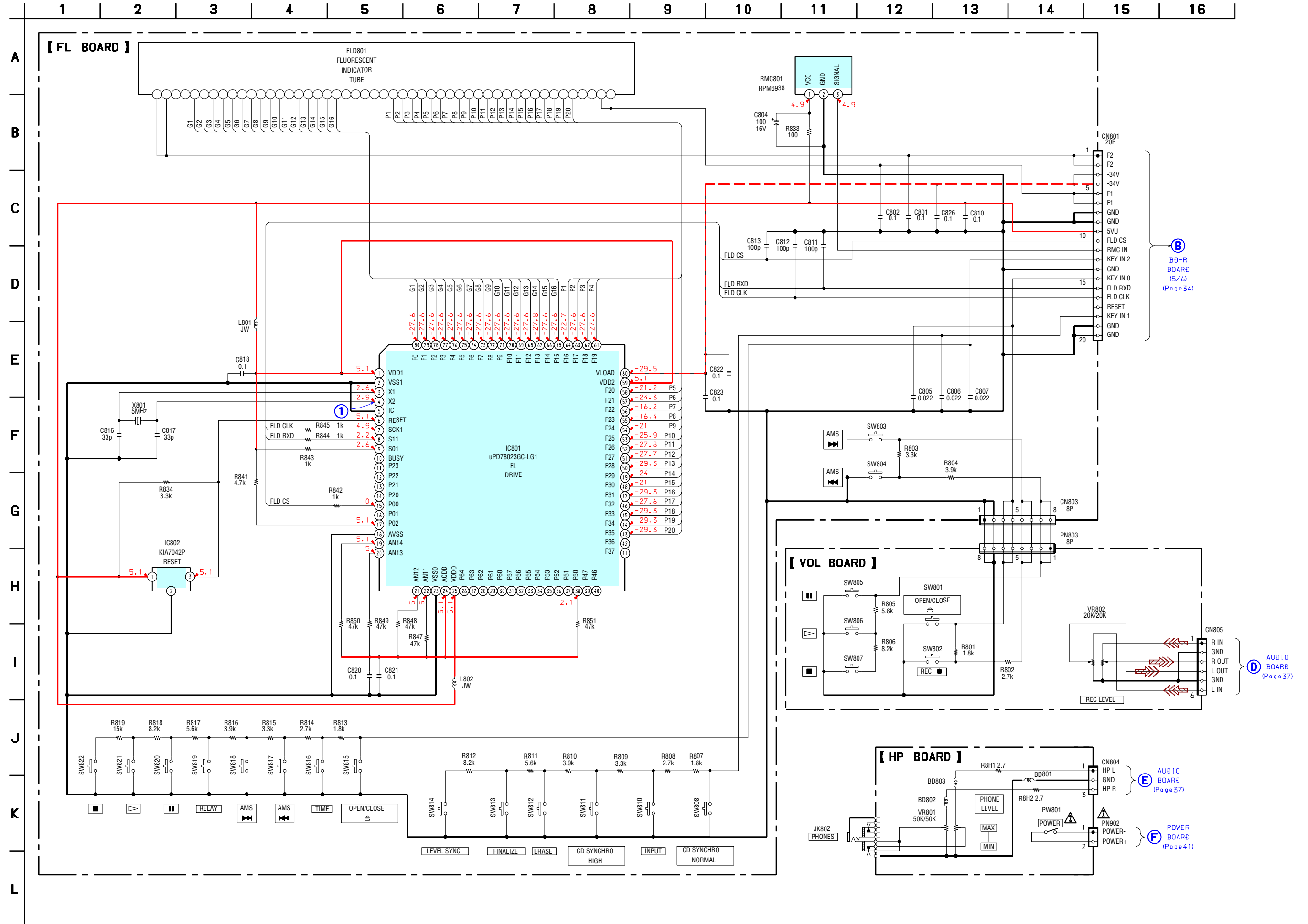
5-11.SCHEMATIC DIAGRAM – AUDIO SECTION –

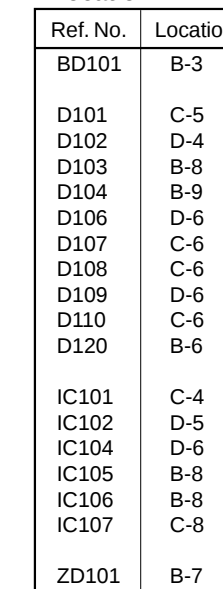


5-12.PRINTED WIRING BOARD – PANEL SECTION – • See page 21 for Circuit Board location.

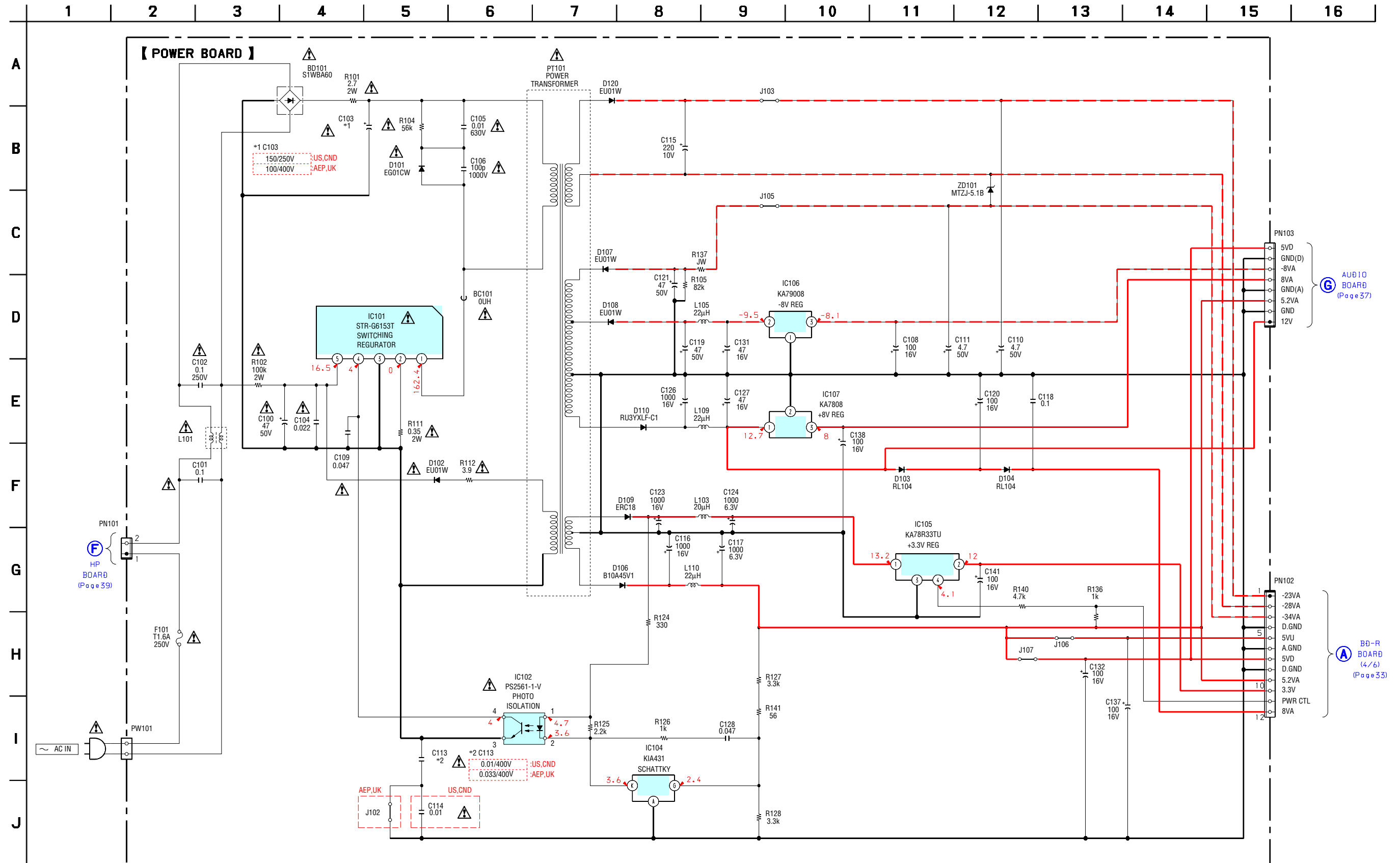


5-13.SCHEMATIC DIAGRAM – PANEL SECTION –

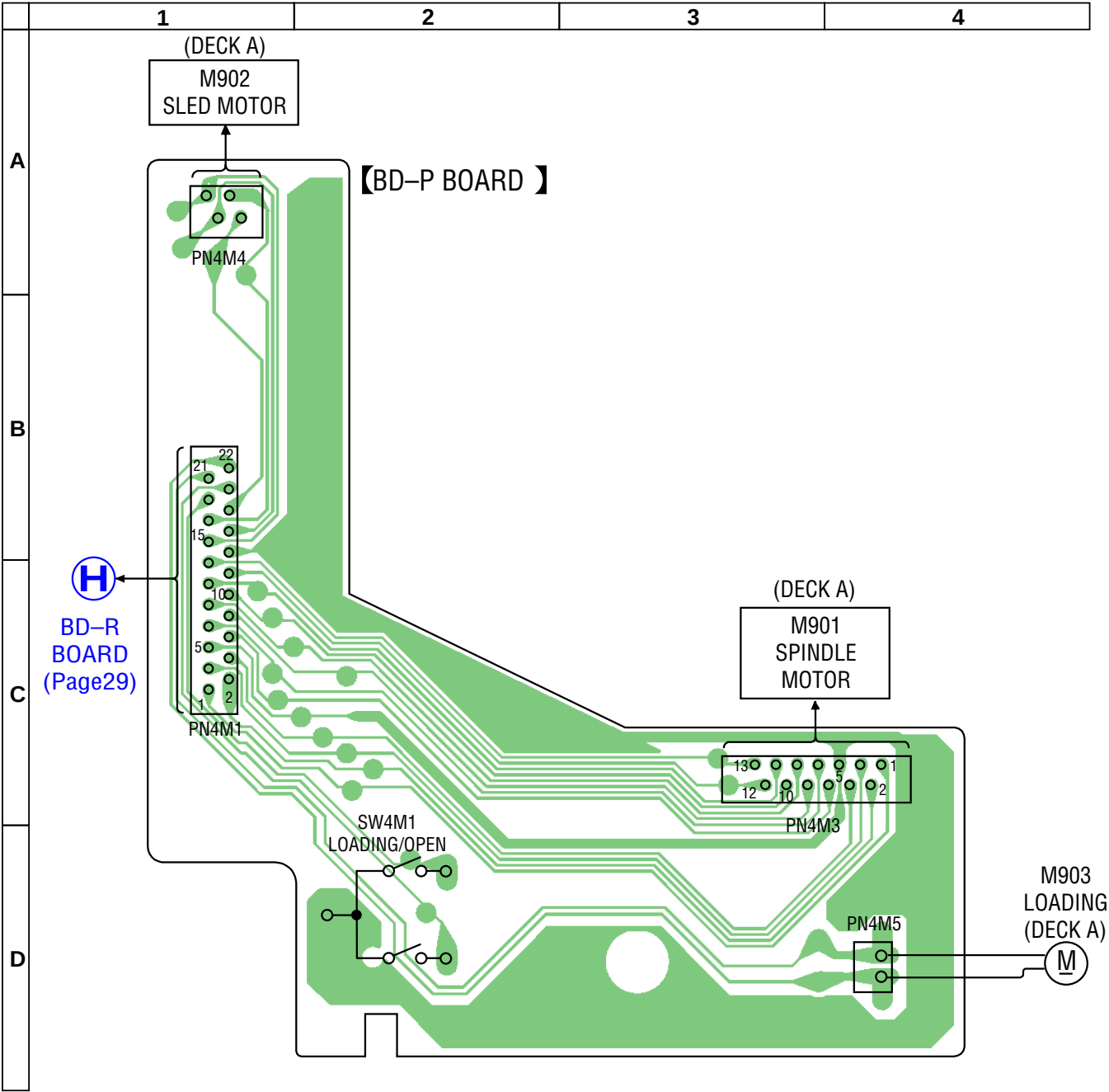




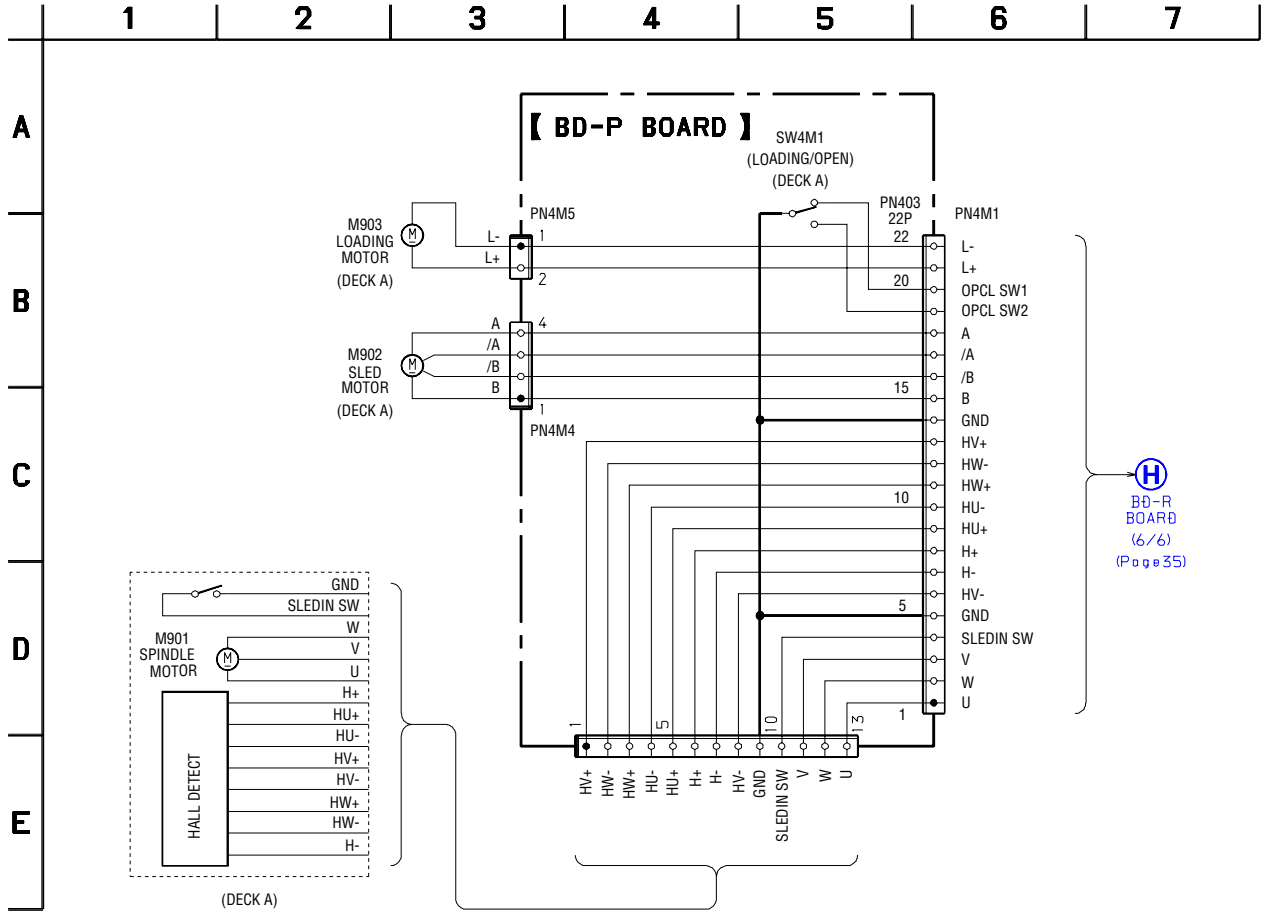
5-15.SCHEMATIC DIAGRAM - POWER SECTION -



5-16.PRINTED WIRING BOARD – BD-P SECTION – • See page 21 for Circuit Board location.



5-17.SCHEMATIC DIAGRAM -BD-P SECTION -



5-18. IC PIN FUNCTION DESCRIPTION

• IC203 HD64F3062BFBL-W3CDR (SYSTEM CONTROL) (BD-R BOARD (3/6))

Pin No.	Pin Name	I/O	Description
1	VCL	—	Not used (connected to ground through capacitor)
2	ATIP/EFM	O	ATIP/EFM signal output to CST0100C
3	/DA_RCS	O	Chipselect signal output to VC01S05
4	/UCS1	O	Mode set signal output to OTI-9790CE
5	/UCS0	O	Mode set signal output to OTI-9790CE
6	DA_RCLK	O	Clock output to VC01S05
7	WR/nRE	O	Read or write (CPLD) select signal output
8	/OAK_RST	O	Reset signal output for OTI-9790CE
9	DA_RDATA	O	Data output to VC01S05
10	FWE	I	Flash memory write enable
11	VSS	—	Ground
12	REC_TXD	O	Serial data output to CDP
13	BTS_TXD	O	Flash write data output
14	REC_RXD	I	Serial data input from CDP
15	BTS_RXD	I	Receive data from flash read
16	TRK INC	I	Clock input from to CDP
17	/SDINT	—	Not used (open)
18	SDATA_OUT	O	Serial data output to EEPROM
19	SCLK	O	Serial clock to EEPROM
20	CDR/nRW	O	CDR/CDRW select signal output
21	/EP_CS	O	EEPROM chip selector signal output
22	VSS	—	Ground
23	/CXA_CS	O	CXA3558R chip select signal output
24	/DA_CS	O	DAC chip select signal output
25	TP(I/O)	I/O	Not used (pull down)
26	TP(I/O)	I/O	Not used
27 to 34	UAD0 to 7	I/O	Data BUS
35	VCC	—	Power supply
36 to 43	UA0 to 7	O	Address BUS
44	VSS	—	Ground
45	UA8	O	Address BUS
46	/OPEN_SW	I	OPEN switch signal input
47	/LOAD_SW	I	LOAD switch signal input
48	RECD1	I	RECD1 signal input from CXA3558R
49	/SLD_IN_SW	I	SLD-IN switch signal input
50	A_DATA_ZERO (JIG_DOWN)	I	Not used (pull down)
51	SRC_INT (HOT_TX)	I	Serial data input from CS8420-CSR
52	SRC_DIN (HOT_RX)	I	Interrupt signal input from CS8420-CSR
53	XTOK	I	XTOK signal input from CXA3558R
54	TP (IN)	I	Not used
55	OPTION-1	I	Not used
56	FLAGB	I	Servo flag input
57	VSS	—	Ground
58	/WAIT (URDY)	I	Data ready signal input from OTI-9790CE
59	AGCON	O	AGC on signal output to CXA3558R
60	ROPCON	O	ROPC related CPLD signal output
61	SDATA_IN	I	Serial data input from EEPROM
62	/STBY	I	Hardware standby signal input (connected to VCC)
63	/RESET	I	Reset signal input

Pin No.	Pin Name	I/O	Description
64	NMI	I	Non maskable interrupt (connected to ground)
65	VSS	—	Ground
66	EXTAL	I	Crystal oscillator input (20MHz)
67	XTAL	O	Crystal oscillator output (20MHz)
68	VCC	—	Power supply
69	/AS	O	Not used
70	/URD	O	μ-COM data read signal output
71	/UWR	O	μ-COM data write signal output
72	/LWR	O	Not used
73	MD0	I	Mode select input (connected to VCC)
74	MD1	I	Mode select input (connected to ground)
75	MD2	I	Mode select input
76	AVCC	—	Power supply
77	VREF (4V)	I	VREF input (+4V)
78	ASYM1	I	RF hold data input
79	ASYM2	I	RF hold data input
80	BLEVELO	I	Write RF signal input
81	MPXO	I	Multiplexed input from CXA3558R
82	SLD_ERR	I	AD signal for sled control
83	FPDO	I	Laser power monitoring voltage input
84	SLD_MOVE_A	O	Sled kick level output
85	SLD_MOVE_B	O	Sled kick level output
86	AVSS	—	Ground
87	ESFS	I	Encoding subframe FS signal input from OTI-9790
88	/UINT0	I	Interrupt signal input from OTI-9790CE
89	/UINT1	I	Interrupt signal input from OTI-9790CE
90	ADTRIG	I	AD trig signal input from CST0100C
91	OPTION-2	I	Not used
92	VSS	—	Ground
93	FLAGA	I	Servo flag input
94	DUB_START	O	DUB_START signal output to VC01S05
95	SPNFG	I	Spindle FG signal input
96	/SRC_RST	O	Reset signal output to CS8420-CSR
97	/SRC_CS	O	Chip select signal output to CS8420-CSR
98	SRC_DOUT	O	Serial data output to CS8420-CSR
99	SRC_CLK	O	Clock output to CS8420-CSR
100	DRV_EN	O	Motor drive mute signal output

• IC207 CST0100C (CPLD) (BD-R BOARD (3/6))

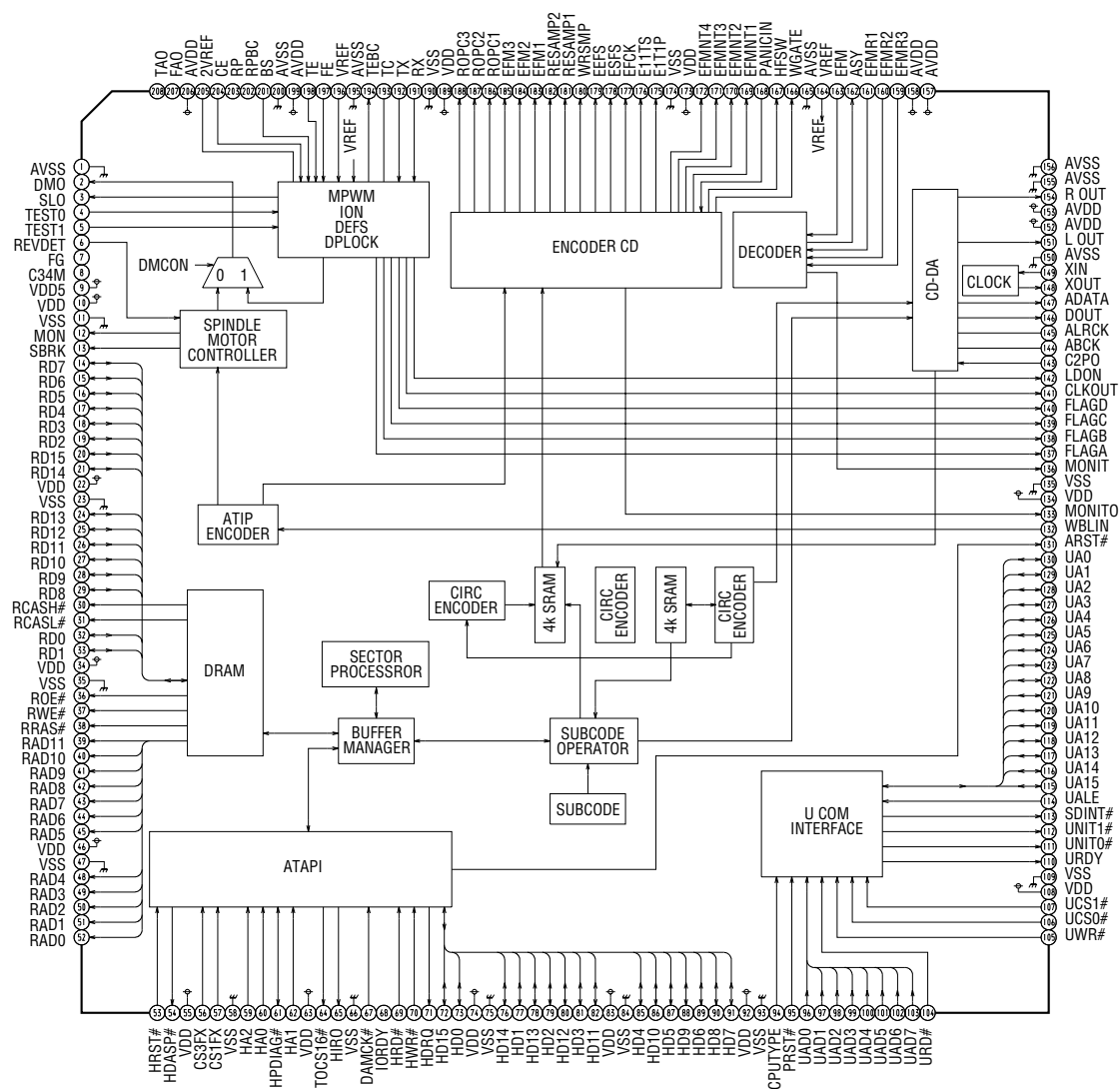
Pin No.	Pin Name	I/O	Description
1	17MHz	—	Test point (17MHz CLK)
2	RESAMP2	I	Timing signal input for OTI9790CE
3	WFPDSH	O	Sample & hold signal of CXA3558R
4	GND	—	Ground
5	RFPDSH	O	Sample & hold signal of CXA3558R
6	WBLSH	O	Sample pulse output for CXA3558R
7	SPDSH	O	Sample pulse output for CXA3558R
8	MPDSH	O	Sample pulse output for CXA3558R
9	TDI	—	Not used
10	TMS	—	Not used
11	TCK	—	Not used
12	WRSMP	I	Timing signal input for OTI-9790CE
13	WLDON	O	WLDON of RFIC & PICK-UP signal output
14	ERGCNT	O	Gain control signal output (Not used)
15	VCC	—	Power supply (+5V)
16	RESET	I	Reset signal input
17	GND	—	Ground
18	W/XR	O	Write enable1 signal output
19	OSCEN	O	Oscillation enable signal output to pick-up
20	ENBL	O	Signal to turn on the pick-up
21	ODON	O	Over drive enable signal output
22	MONITO	I	Monitoring signal input
23	LDON	I	Laser diode ON/OFF control signal input
24	TDO	—	Not used
25	GND	—	Ground
26	VCC	—	Power supply (+5V)
27	WGATE	I	WGATE signal input from OTI9790CE
28	HFM ON	—	Not used (connected to VCC)
29	EFM1	I	WE1 control signal from OTI9790CE
30	EFM2	I	ODON control signal from OTI9790CE
31	HFSW	I	HFSW signal input from OTI9790CE
32	ROPCON	I	ROPCON signal input from HD64F3062BFBL-W3CDR
33	CDR/RW	I	CDR/RW detect signal input
34	WR/RE	I	REAL_WRITE signal input
35	VCC	—	Power supply (+5V)
36	ATIP/EFM	I	WBLOCK signal control input
37	WBLOCK	—	Not used
38	ADTRIG	O	ADTRIG signal output to HD64F3062BFBL-W3CDR
39	EEFS	I	Sync signal input from OTI9790CE
40	EFM3	I	OSCEN control signal while reading
41	ROPC1	I	Determines ROPC S/H timing when writing
42	RESAMP1	I	S/H Level input from OTI9790CE
43	EFCK	I	Generating S/H control signal according to EFM bit clock and other signals
44	34MCLK	I	Clock input OTI9790CE

• IC407 HD64F3062BFBL-W3CDP (SYSTEM CONTROL) (BD-R Board (6/6))

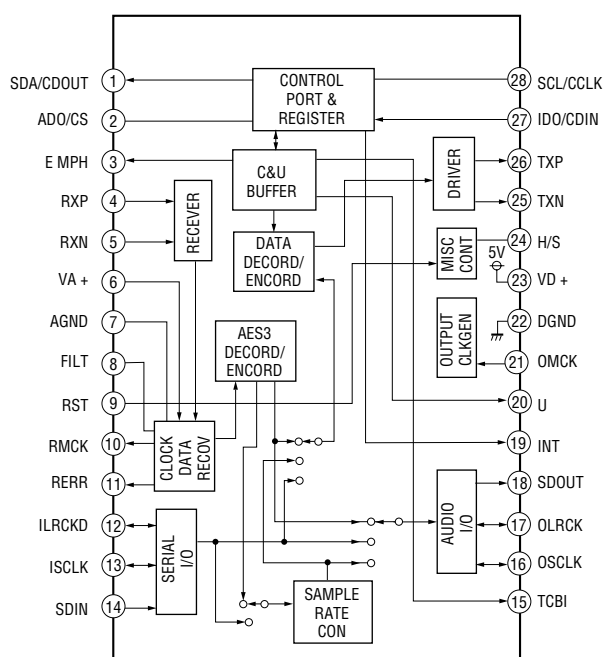
Pin No.	Pin Name	I/O	Description
1	VCL	—	Power supply (Connected to ground with capacitor)
2	DAC CS	O	DAC chip select signal output to FPGA (VC0IS05)
3	SW	O	Mode switching signal output to CXA2581N
4	CXA VFC	O	EQ cut-off frequency control signal output to CXA2581N
5	TRAYCTRL	O	TRAY loading motor control signal output to M63021FP
6	TRK INC	O	TRK INC signal output to CD-RW system control
7	SW REF/AUD	O	Audio level /sled reference voltage select signal output
8	FPGA AS	O	Register Control signal output to FPGA (VC0IS05)
9	DRV MUTE	O	Motor drive muting signal output to M63021FP
10	FW EN	I	Flash write enable signal input
11	GND	—	Ground
12	AS DATA	O	Serial communication with CD-RW data output/ASIC config
13	FL SDI	O	FLD data out/flash write
14	REC TXD	I	Serial communication with CD-RW data input/ASIC config
15	PROG DN	I	Flash read input
16	AS CLK	O	Not used (open)
17	FL SCK	O	FLD clock output
18	FL CE	O	FLD chip enable signal output
19	————	—	Not used (open)
20	FPGA RST	O	Reset signal output to FPGA (VC0IS05)
21	————	—	Not used (open)
22	GND	—	Ground
23	FPGA DATA	I/O	FPGA serial data input/output
24	FPGA CLK	I/O	FPGA clock input/output
25	FPGA CS	O	Chip select signal output to FPGA (VC0IS05)
26	SW AUD LR	O	Audio level L/R select signal output
27 to 34	————	—	Not used (open)
35	5V	—	Power supply
36	————	—	Not used (open)
37	RESET	O	Reset signal output (Not used)
38	DUB SEL	O	Dubbing mode select signal output
39	CXD XTSL	O	Crystal select signal output to CXD3023R
40	CXD MD2	O	Digital ON/OFF signal output to CXD3023R
41	CXD DATA	O	Serial data output to CXD3023R
42	CXD XLAT	O	Latch signal output to CXD3023R
43	CXD CLOK	O	Serial data clock output to CXD3023R
44	GND	—	Ground
45	FOK	I/O	Focus OK signal input/output
46	SQSO	I	Subcode-Q , PCM peak and level data input from CXD3023R
47	GFS	I	GFS signal input from CXD3023R
48	SENS	I	SENS signal input from CXD3023R
49	OPTION 4	I	Not used (connected to ground)
50	JIG DOWN	I	Not used (Pull down)
51	TRYSW2	I	TRY open switch signal input
52	T1RYSW	I	TRY close switch signal input
53	OPTION 1	I	Not used (connected to ground)
54	OPTION 2	I	Not used (connected to ground)
55	OPTION 3	I	Not used (connected to ground)
56	————	—	Not used (open)
57	GND	—	Ground

Pin No.	Pin Name	I/O	Description
58	—————	—	Not used (open)
59	PWR CTL	O	System power ON/OFF signal output
60	PWR MUTE	O	Headphone audio mute signal output
61	—————	—	Not used (open)
62	/STBY	I	Not used (connected to 5V)
63	/RESET	I	System reset signal input
64	PWR FAIL IN	I	Power monitor input
65	GND	—	Ground
66	EXTAL	I	Connected to the crystal oscillator (20MHz)
67	XTAL	O	Connected to the crystal oscillator (20MHz)
68	5V	—	Power supply
69 to 72	—————	—	Not used (open)
73	MD0	I	Not used (connected to 5V through resister)
74	MD1	I	Not used (connected to 5V through resister)
75	MD2	I	Mode input (for check)
76	5VA	—	Power supply
77	VREF (4V)	I	A/D reference voltage input (+4V)
78	KEY IN0	I	Key input 0 (A/D port)
79	KEY IN1	I	Key input 1 (A/D port)
80	KEY IN2	I	Key input 2 (A/D port)
81	TE/FE	I	TE/FE signal input
82	SLD ERR	I	Tracking drive monitor input
83	1.35/AUD	I	Audio level /sled reference voltage monitor input
84	SLD CTL A	O	Sled motor control signal output
85	SLD CTL B	O	Sled motor control signal output
86	AGND	—	Ground
87	SPD G UP	O	Motor speed control signal output
88	—————	—	Not used (open)
89	SCOR	I	Input a high signal when either subcode sync S0 or S1 is detected
90	SLDIN SW	I	Sled inner side detect signal input
91	—————	—	Not used (open)
92	GND	—	Ground
93	COUT	I/O	Track control signal input/output
94	SQCK	O	SQSO readout clock output to CXD3023
95	FG	I	Spindle Frequency Generator signal input from M63021FP
96	SCLK	O	SENS readout clock output
97	—————	—	Not used (open)
98	AS PROG	I	Not used (pull up)
99	AS FCS/TRK	O	TE/FE select signal output
100	REMO IN	I	Remote commander signal input

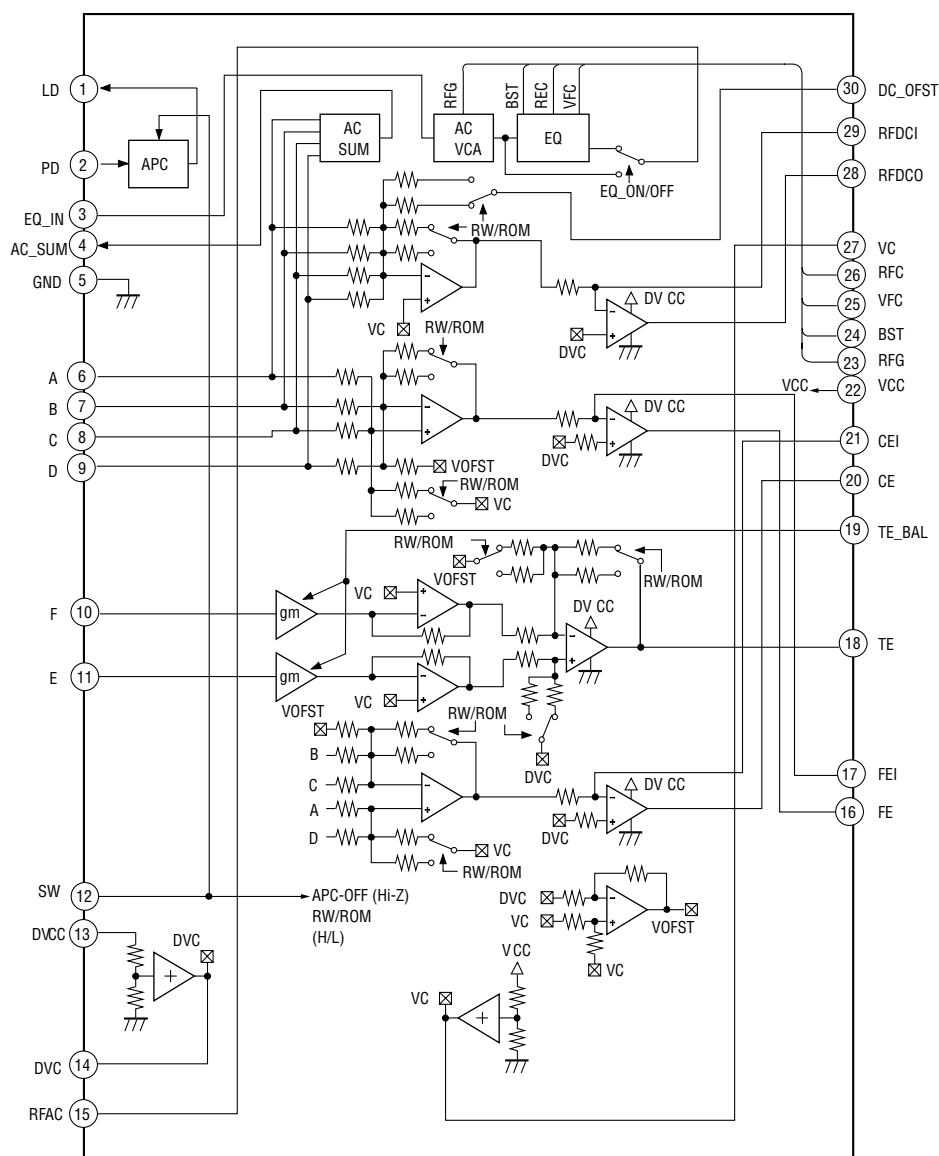
48



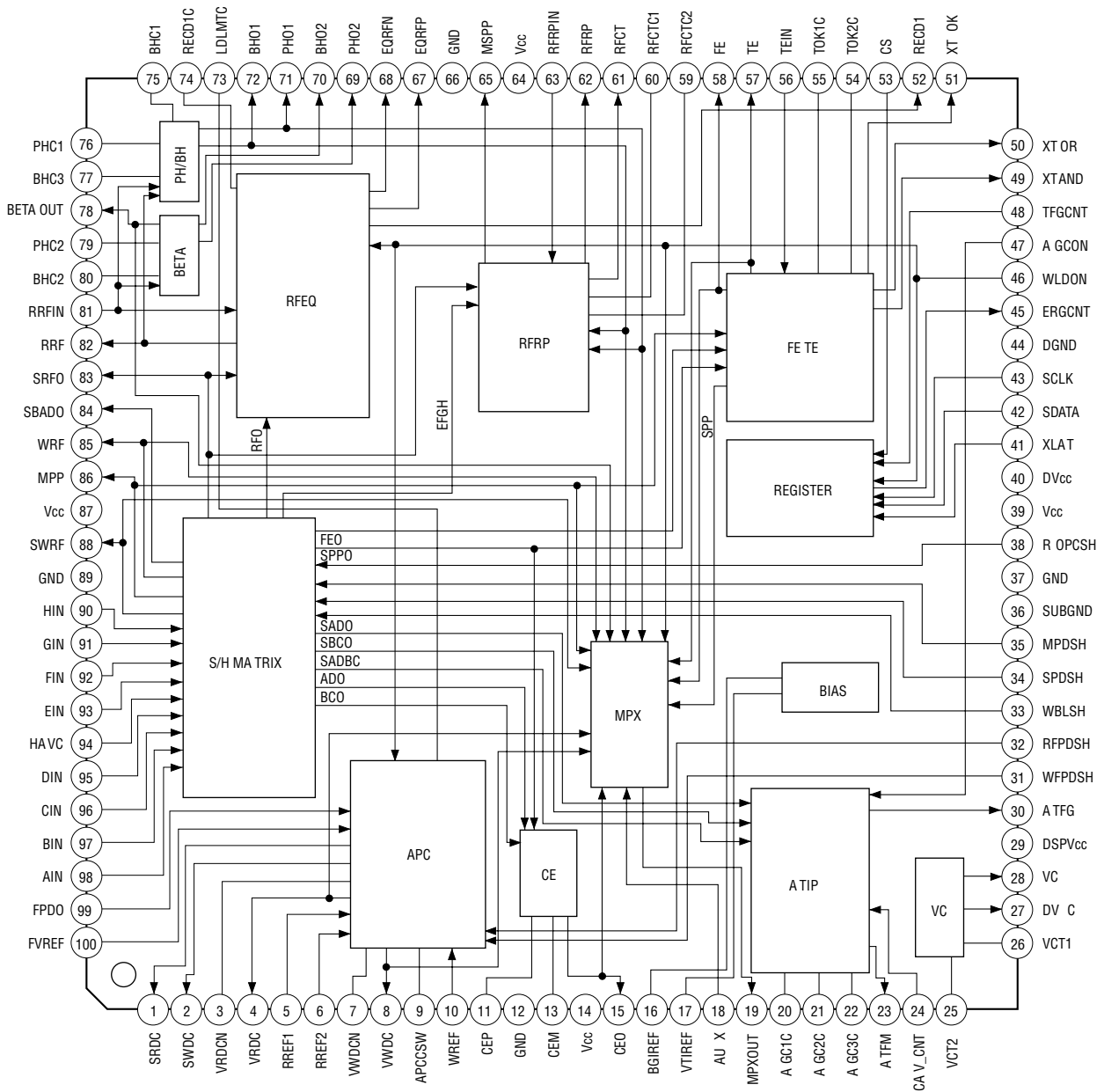
IC502 CS8420-CSR (BD-R board)



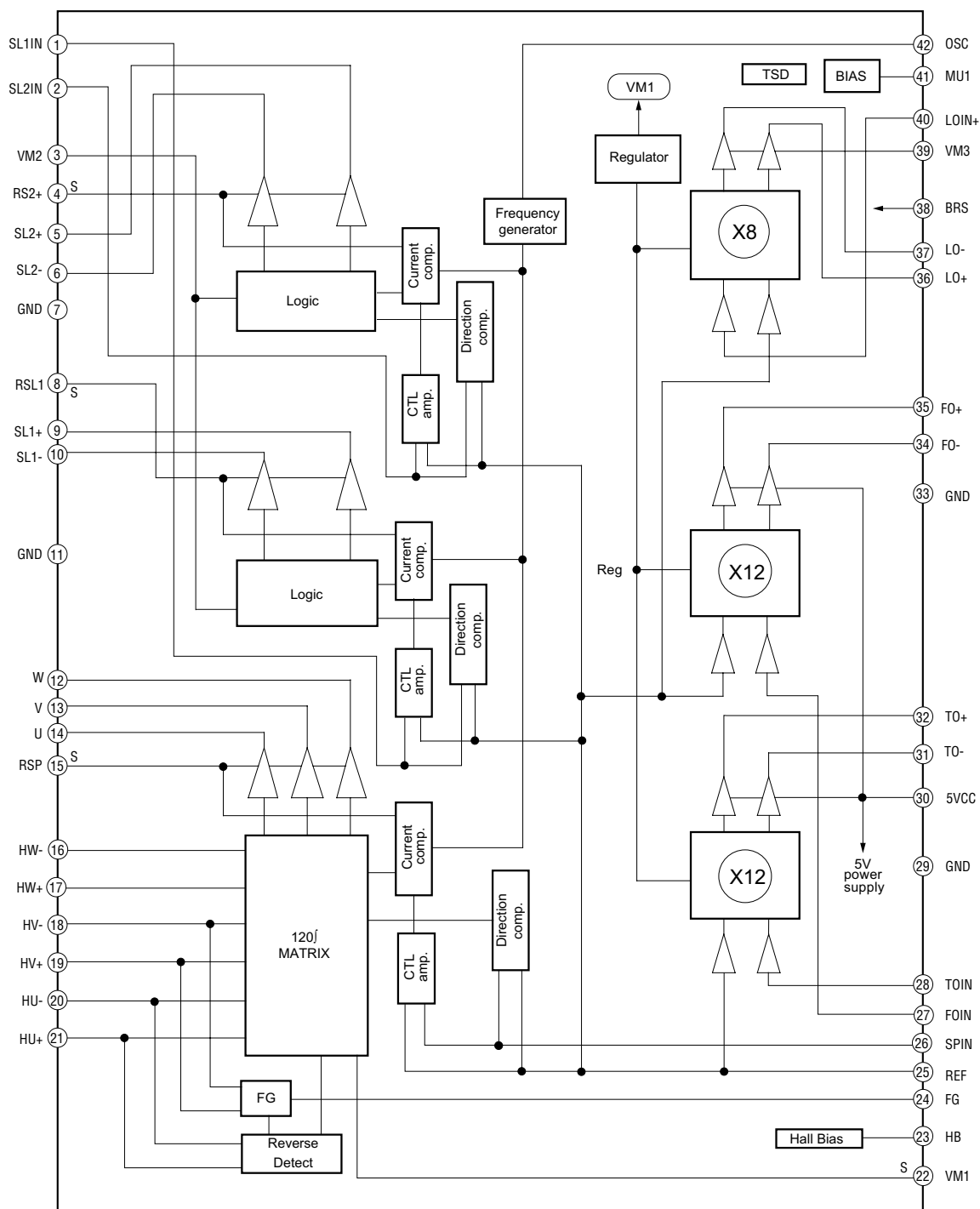
IC403 CXA2581N-T4 (BD-R board)



IC301 CXA3558R FOCUS/TRACKING ERROR DETECT (BD-R board)



IC303, 405 M63021FP (BD-R board)



SECTION 6
EXPLODED VIEWS

NOTE:

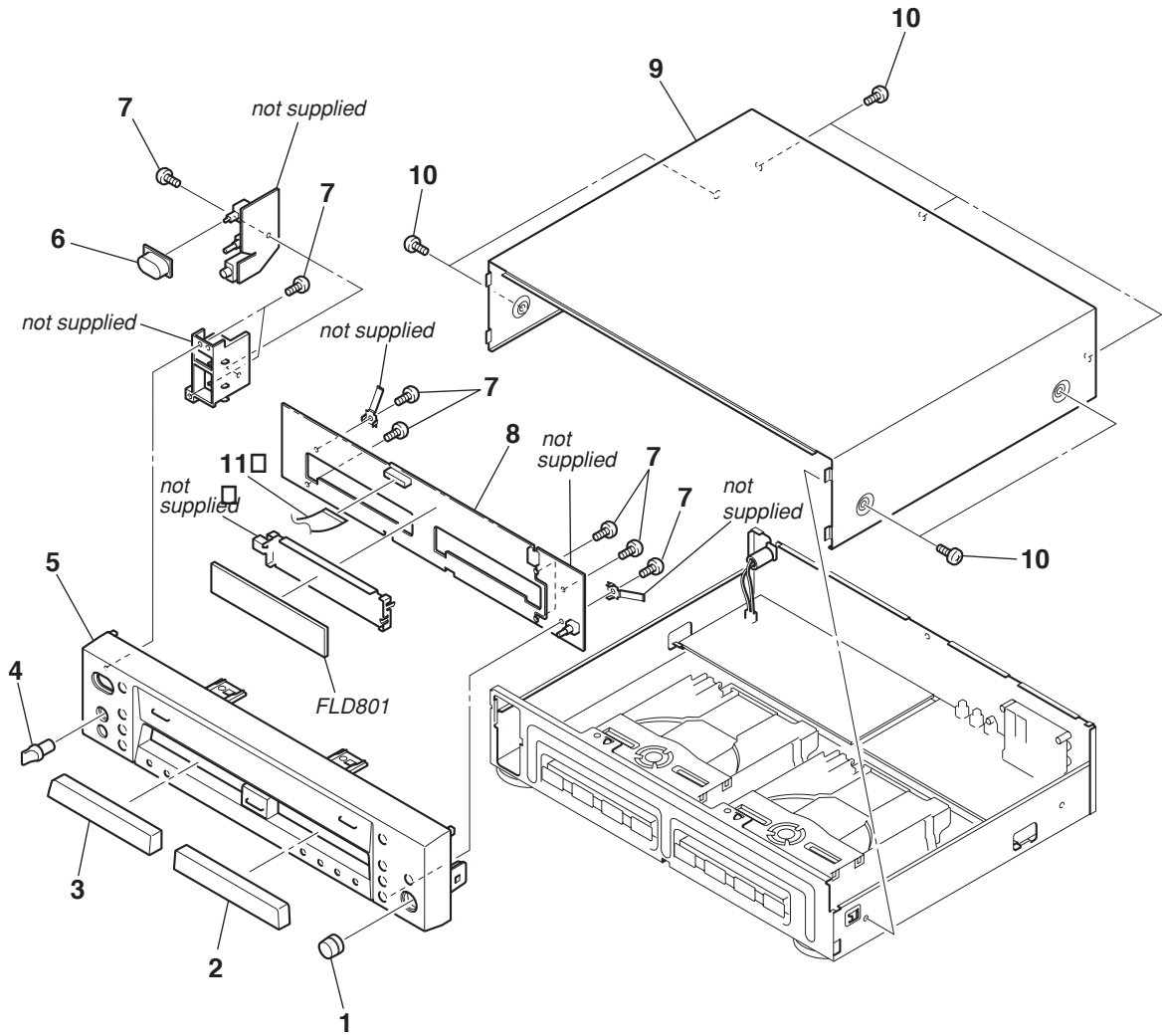
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
CND : Canadian model

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

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

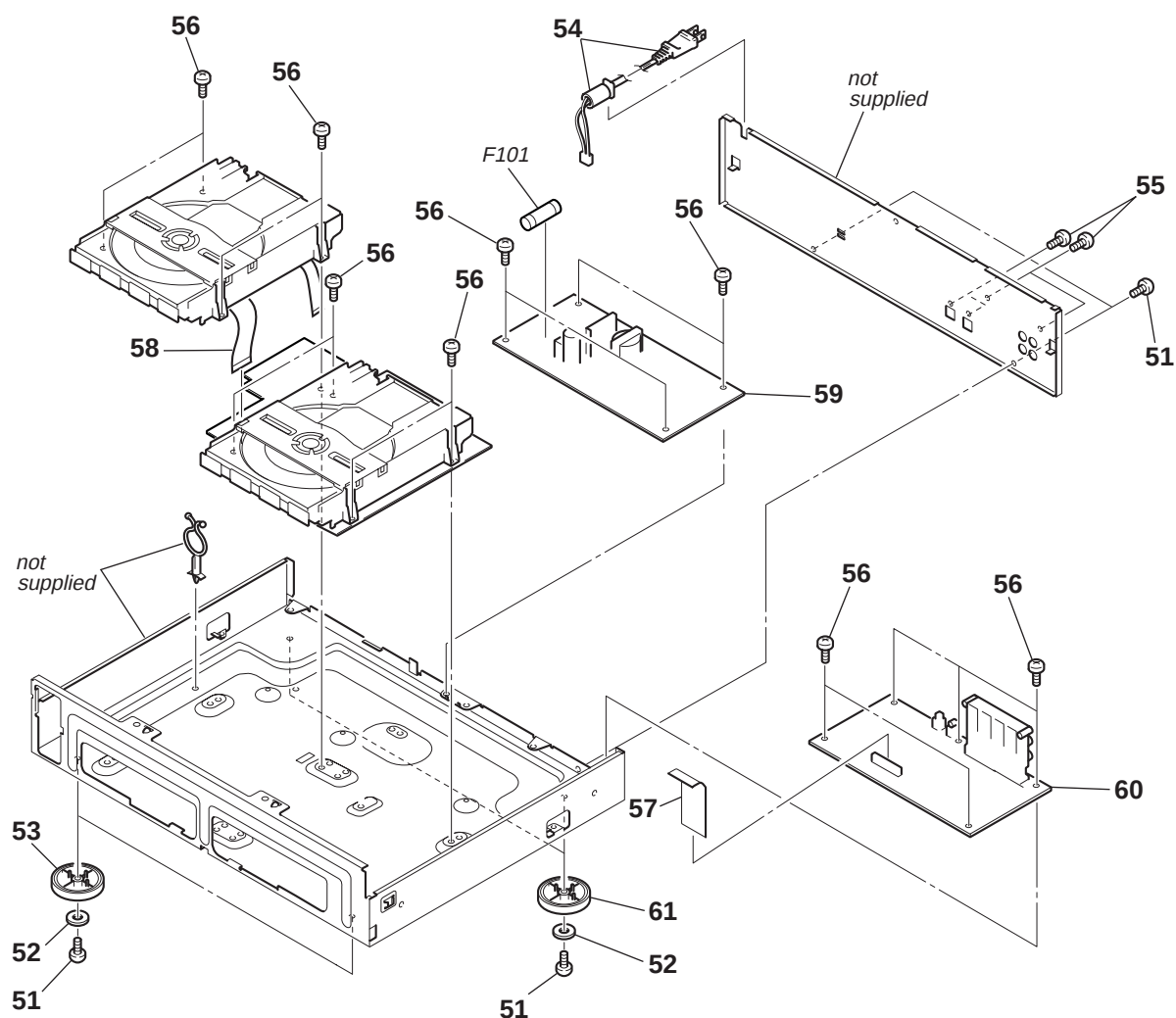
Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-235-379-01	KNOB, REC VOL (BLACK)		6	4-235-380-01	KNOB, POWE (BLACK)	
1	4-243-930-01	KNOB, REC VOL (SILVER) (AEP,UK)		6	4-243-931-01	KNOB, POEWR (SILVER) (AEP,UK)	
2	4-243-592-01	DOOR, TRAY (REC) (BLACK)		7	4-235-377-01	SCREW, SPECIAL	
2	4-243-828-01	DOOR, TRAY (REC) (SILVER) (AEP,UK)		8	A-4731-039-A	FL BOARD, COMPLETE	
3	4-243-591-01	DOOR, TRAY (PLAY) (BLACK)		9	4-235-363-01	CASE, TOP (BLACK)	
3	4-243-827-01	DOOR, TRAY (PLAY) (SILVER) (AEP,UK)		9	4-243-826-01	CASE, TOP (SILVER) (AEP,UK)	
4	4-235-378-01	KNOB, P/VOLUME (BLACK)		10	4-243-598-01	SCREW (CASE) (BLACK)	
4	4-243-929-01	KNOB, P/VOLUME (SILVER) (AEP,UK)		10	4-243-829-01	SCREW (CASE) (SILVER) (AEP,UK)	
5	4-243-584-01	PANEL ASSY, FRONT (BLACK)		11	1-824-266-11	WIRE (FLAT TYPE) (20 CORE)	
5	4-243-932-01	PANEL ASSY, FRONT (SILVER) (AEP,UK)		FLD801	1-518-830-11	INDICATOR TUBE, FLUORESCENT	

6-2. CHASSIS SECTION

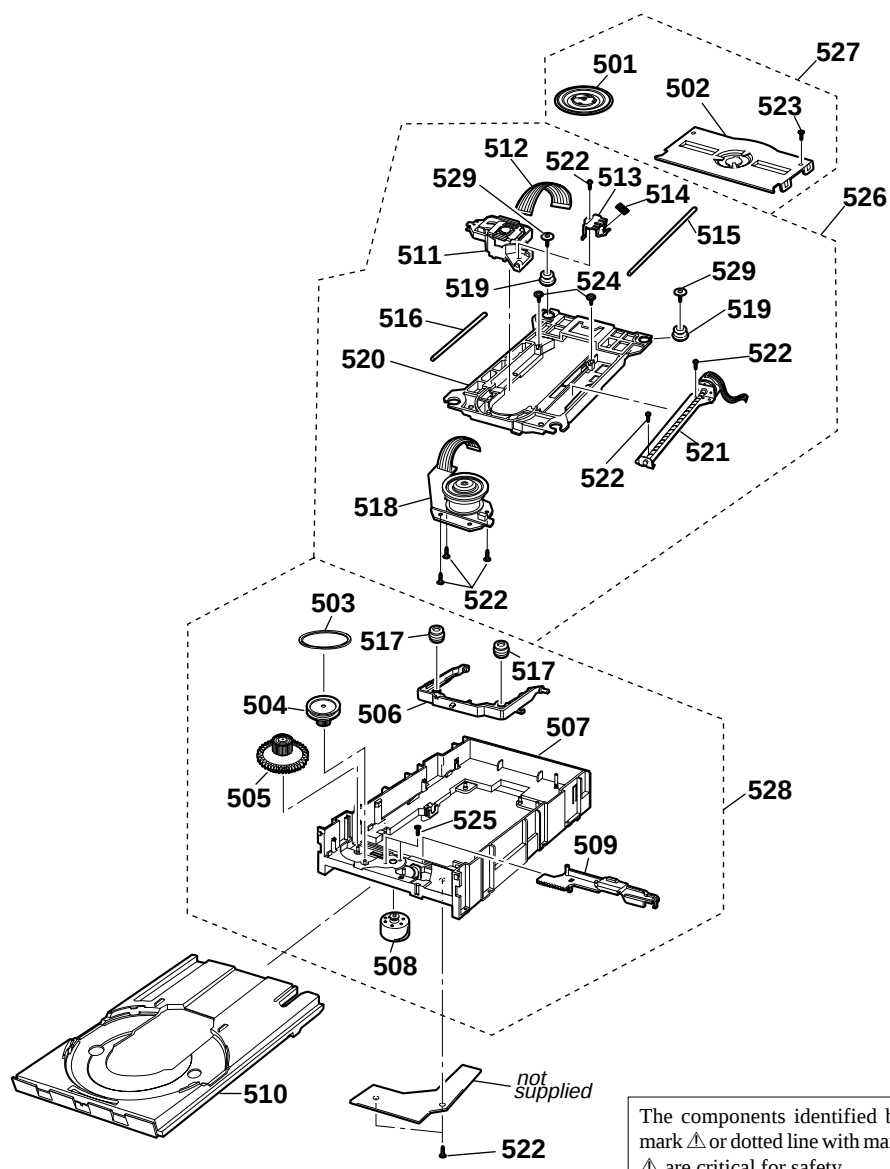


The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

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	Ref. No.	Part No.	Description	Remark
51	4-235-403-01	SCREW, SPECIAL (3X8 BK)		57	1-824-264-11	WIRE (FLAT TYPE) (30 CORE)	
52	4-235-400-01	RUBBER, FOOT		58	1-824-782-11	WIRE (FLAT TYPE) (22 CORE)	
53	4-235-402-01	HOLDER, FOOT (US,CND)		59	A-4731-043-A	POWER BOARD, COMPLETE (US,CND)	
53	4-241-266-01	HOLDER, FOOT (SILVER) (AEP,UK)		59	A-4731-046-A	POWER BOARD, COMPLETE (AEP,UK)	
▲ 54	1-823-044-11	CORD, POWER (US,CND)		60	A-4731-042-A	AUDIO BOARD, COMPLETE	
▲ 54	1-824-779-11	CORD, POWER (UK)		61	4-235-402-01	HOLDER, FOOT	
▲ 54	1-824-780-11	CORD, POWER (AEP)		▲ F101	1-532-503-51	FUSE (1.6A 250V) (US,CND)	
55	4-235-362-01	SCREW SPECIAL (3X10)		▲ F101	1-533-467-21	FUSE, GLASS TUBE (DIA. 5) (T1.6AL 250V)	(AEP,UK)
56	4-243-599-01	SCREW, SPECIAL					

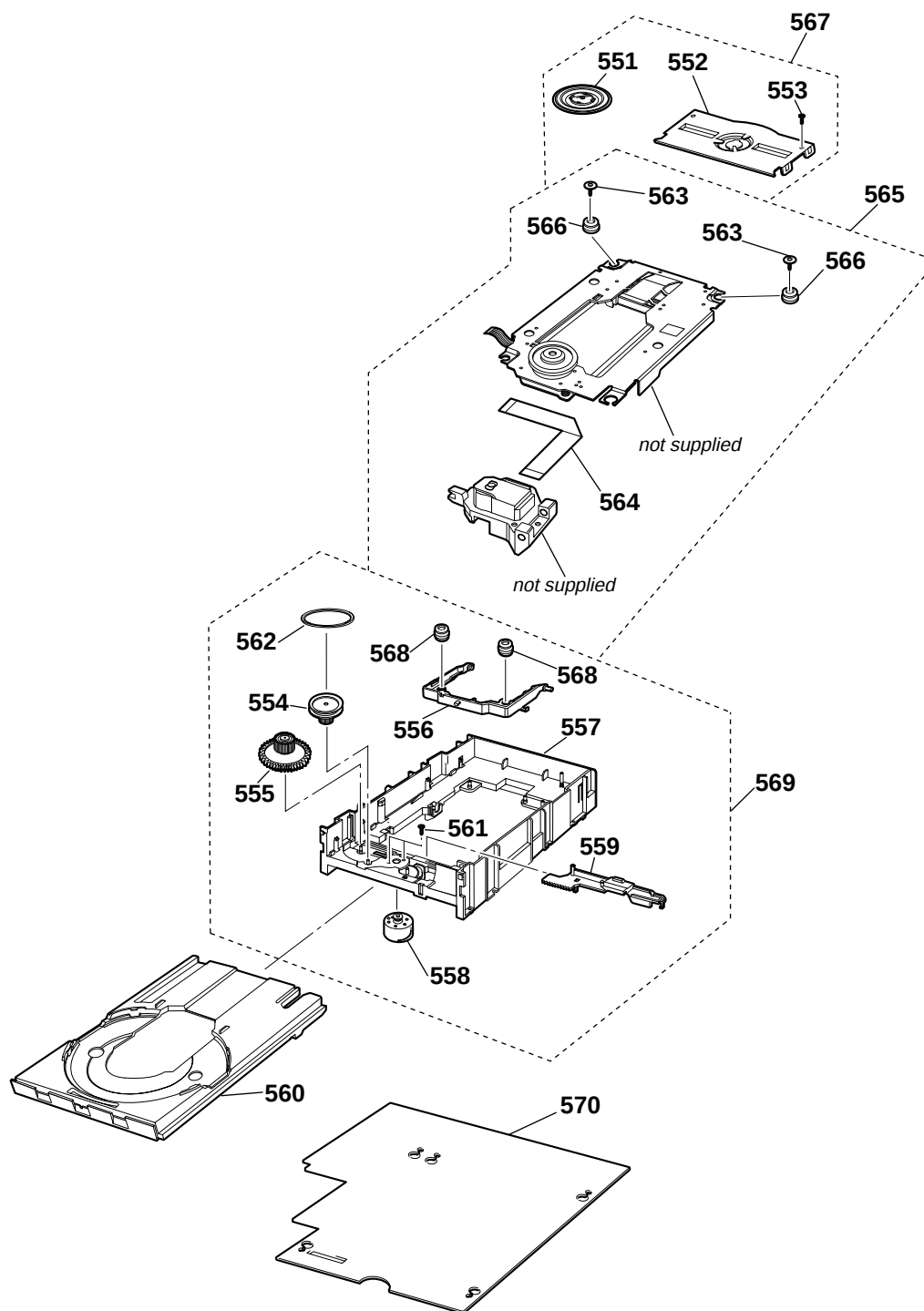
6-3. CD PLAY SECTION (DECK A)



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
				515	4-235-414-01	SHAFT, R	
501	4-241-167-01	CLAMP ASSY, DISC		516	4-235-415-01	SHAFT, L	
502	4-235-404-01	HOLDER, CLAMP		517	4-235-389-01	RUBBER, FRONT	
503	4-235-381-01	BELT		518	4-243-632-01	MOTOR ASSY, SPINDLE	
504	4-235-382-01	GEAR, PULLEY		519	4-243-630-01	RUBBER, REAR	
505	4-235-407-01	GEAR, LOADING		520	4-235-418-01	BASE, PU	
506	4-235-384-01	BASE, UP/DOWN		521	4-243-631-01	MOTOR ASSY, FEED	
507	4-235-386-01	BASE, MAIN		522	4-235-419-01	SCREW, 2X6	
508	4-241-165-01	MOTOR ASSY, LOADING		523	4-235-420-01	SCREW, 1.7X6	
509	4-235-387-01	GUIDE, UP/DOWN		524	4-235-421-01	SCREW, 1.7X5	
510	4-235-388-01	TRAY, DISC		525	4-235-391-01	SCREW, 1.7X4.5	
$\triangle$ 511	1-476-791-11	OPTICAL PICK-UP BLOCK		526	4-243-633-01	MECHANISM ASSY, PU	
512	1-824-781-11	WIRE (FLAT TYPE) (17 CORE)		527	4-241-166-01	HOLDER ASSY, CLAMP	
513	4-235-412-01	GUIDE, FEED		528	4-241-164-01	MECHANISM ASSY, LOADING	
514	4-235-413-01	SPRING, FEED		529	4-241-168-01	SCREW, 2.0X10	

6-4. CD RECORD SECTION (DECK B)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
				560	4-235-388-01	TRAY, DISC	
551	4-241-167-01	CLAMP ASSY, DISC		561	4-235-391-01	SCREW, 1.7X4.5	
552	4-235-404-01	HOLDER, CLAMP		562	4-235-381-01	BELT	
553	4-235-419-01	SCREW, 2X6		563	4-241-168-01	SCREW, 2.0X10	
554	4-235-382-01	GEAR, PULLEY		564	1-823-046-11	WIRE (FLAT TYPE) (32 CORE)	
555	4-235-407-01	GEAR, LOADING		565	4-241-217-01	MECHANISM ASSY, PU	
556	4-235-384-01	BASE, UP/DOWN		566	4-235-390-01	RUBBER, REAR	
557	4-235-386-01	BASE, MAIN		567	4-241-166-01	HOLDER ASSY, CLAMP	
558	4-241-165-01	MOTOR ASSY, LOADING		568	4-235-389-01	RUBBER, FRONT	
559	4-235-387-01	GUIDE, UP/DOWN		569	4-241-164-01	MECHANISM ASSY, LOADING	
				570	A-4731-044-A	BD-R BOARD, COMPLETE	

SECTION 7
ELECTRICAL PARTS LIST

Note:

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

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

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

- 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, -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
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA..., uPB...: μ PB...,
uPC...: μ PC..., uPD...: μ PD...
- CAPACITORS
uF : μ F
- COILS
uH : μ H
- Abbreviation
CND : Canadian model

Ref. No.	Part No.	Description	Remark			
	A-4731-042-A	AUDIO BOARD, COMPLETE				

		< CAPACITOR >				
C701	1-126-768-11	ELECT	2200uF	20%	16V	
C702	1-126-935-11	ELECT	470uF	20%	10V	
C703	1-163-139-00	CERAMIC CHIP	820PF	5%	50V	
C704	1-163-139-00	CERAMIC CHIP	820PF	5%	50V	
C707	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C708	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C70B	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C70C	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C710	1-104-665-11	ELECT	100uF	20%	10V	
C711	1-126-935-11	ELECT	470uF	20%	10V	
C712	1-104-665-11	ELECT	100uF	20%	10V	
C714	1-126-965-91	ELECT	22uF	20%	50V	
C715	1-126-965-91	ELECT	22uF	20%	50V	
C717	1-104-666-11	ELECT	220uF	20%	25V	
C718	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C719	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C720	1-126-935-11	ELECT	470uF	20%	10V	
C722	1-115-419-11	CERAMIC CHIP	3300PF	5%	25V	
C723	1-104-665-11	ELECT	100uF	20%	10V	
C724	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C725	1-163-139-00	CERAMIC CHIP	820PF	5%	50V	
C726	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C727	1-126-935-11	ELECT	470uF	20%	10V	
C728	1-165-590-11	MYLAR	0.0039uF		100V	
C730	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	
C731	1-126-965-91	ELECT	22uF	20%	50V	
C732	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	
C733	1-126-965-91	ELECT	22uF	20%	50V	
C737	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C739	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C740	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C742	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C744	1-104-665-11	ELECT	100uF	20%	10V	
C746	1-163-253-11	CERAMIC CHIP	120PF	5%	50V	
C756	1-126-935-11	ELECT	470uF	20%	10V	
C757	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C758	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V	
C761	1-126-965-91	ELECT	22uF	20%	50V	
C762	1-126-933-11	ELECT	100uF	20%	16V	
C763	1-163-038-91	CERAMIC CHIP	0.1uF		25V	

Ref. No.	Part No.	Description	Remark		
C764	1-126-947-11	ELECT	47uF	20%	10V
C767	1-163-253-11	CERAMIC CHIP	120PF	5%	50V
C770	1-126-965-91	ELECT	22uF	20%	50V
C771	1-126-933-11	ELECT	100uF	20%	16V
C773	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C778	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C787	1-165-590-11	MYLAR	0.0039uF		100V
C791	1-115-419-11	CERAMIC CHIP	3300PF	5%	25V
C797	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C7V2	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C7V3	1-126-935-11	ELECT	470uF	20%	10V
C7V5	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C7V6	1-126-935-11	ELECT	470uF	20%	10V
C7V7	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C7V8	1-126-935-11	ELECT	470uF	20%	10V
< CONNECTOR >					
CN701	1-784-386-21	CONNECTOR, FFC/FPC 30P			
* CN702	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P			
* CN704	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
< IC >					
IC702	8-759-710-97	IC	NJM4565M(TE2)		
IC703	8-759-564-49	IC	TC7W53FU(TE12R)		
IC704	8-759-064-92	IC	NJM5532M-D		
IC706	8-759-644-49	IC	74HCU04D		
IC707	8-759-369-74	IC	NJM4556AM-TE2		
IC7V1	8-759-825-32	IC	CXD9627N-E2		
IC7V2	6-702-527-01	IC	AK5380VT-E2		
< JACK >					
JK701	1-817-108-11	PIN JACK 4P (ANALOG IN/OUT)			
JK703	8-749-923-05	IC	TORX178B (OPTICAL IN)		
JK705	8-749-017-31	IC	GP1FA550TZ (OPTICAL OUT)		
< COIL >					
L703	1-400-091-21	FERRITE	0uH		
L704	1-400-091-21	FERRITE	0uH		
L7V1	1-400-091-21	FERRITE	0uH		
< RELAY >					
LY702	1-755-470-11	RELAY			

AUDIO

BD-P

BD-R

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
< TRANSISTOR >							R768	1-216-654-11	METAL CHIP	1.3K	0.5%	1/10W	
Q701	8-729-037-16	TRANSISTOR	KRA103M-AT				R770	1-216-066-00	METAL CHIP	5.1K	5%	1/10W	
Q702	8-729-016-64	TRANSISTOR	KTD1302				R771	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
Q703	8-729-016-64	TRANSISTOR	KTD1302				R772	1-216-049-11	RES-CHIP	1K	5%	1/10W	
Q704	8-729-016-64	TRANSISTOR	KTD1302				R773	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
Q705	8-729-037-16	TRANSISTOR	KRA103M-AT				R774	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
Q706	8-729-036-89	TRANSISTOR	KTC3198GR-A				R775	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
Q709	8-729-036-89	TRANSISTOR	KTC3198GR-A				R776	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
Q710	8-729-036-89	TRANSISTOR	KTC3198GR-A				R777	1-216-009-91	RES-CHIP	22	5%	1/10W	
Q711	8-729-016-64	TRANSISTOR	KTD1302				R778	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
Q712	8-729-016-64	TRANSISTOR	KTD1302				R779	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
< RESISTOR >							R781	1-216-043-91	RES-CHIP	560	5%	1/10W	
R701	1-216-049-11	RES-CHIP	1K	5%	1/10W		R782	1-216-043-91	RES-CHIP	560	5%	1/10W	
R702	1-216-654-11	METAL CHIP	1.3K	0.5%	1/10W		R783	1-216-097-11	RES-CHIP	100K	5%	1/10W	
R703	1-216-025-11	RES-CHIP	100	5%	1/10W		R784	1-216-097-11	RES-CHIP	100K	5%	1/10W	
R704	1-216-025-11	RES-CHIP	100	5%	1/10W		R785	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R705	1-216-025-11	RES-CHIP	100	5%	1/10W		R786	1-216-009-91	RES-CHIP	22	5%	1/10W	
R706	1-216-041-00	METAL CHIP	470	5%	1/10W		R788	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R707	1-216-041-00	METAL CHIP	470	5%	1/10W		R789	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R708	1-216-049-11	RES-CHIP	1K	5%	1/10W		R790	1-216-073-91	RES-CHIP	10K	5%	1/10W	
R70A	1-216-025-11	RES-CHIP	100	5%	1/10W		R791	1-216-073-91	RES-CHIP	10K	5%	1/10W	
R70B	1-216-025-11	RES-CHIP	100	5%	1/10W		R794	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R70C	1-216-025-11	RES-CHIP	100	5%	1/10W		R795	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R70D	1-216-025-11	RES-CHIP	100	5%	1/10W		R796	1-216-021-00	METAL CHIP	68	5%	1/10W	
R70E	1-216-049-11	RES-CHIP	1K	5%	1/10W		R797	1-216-021-00	METAL CHIP	68	5%	1/10W	
R70F	1-216-025-11	RES-CHIP	100	5%	1/10W		R798	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R70G	1-216-025-11	RES-CHIP	100	5%	1/10W		R799	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R711	1-216-067-00	METAL CHIP	5.6K	5%	1/10W		R7V2	1-216-037-00	METAL CHIP	330	5%	1/10W	
R712	1-216-089-91	RES-CHIP	47K	5%	1/10W		R7V3	1-216-037-00	METAL CHIP	330	5%	1/10W	
R713	1-216-089-91	RES-CHIP	47K	5%	1/10W		R7V4	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R714	1-216-059-00	METAL CHIP	2.7K	5%	1/10W		R7V5	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R715	1-216-059-00	METAL CHIP	2.7K	5%	1/10W		*****						
R716	1-216-073-91	RES-CHIP	10K	5%	1/10W		BD-P BOARD						
R717	1-216-295-91	SHORT CHIP	0				*****						
R718	1-216-067-00	METAL CHIP	5.6K	5%	1/10W		1-824-782-11	WIRE (FLAT TYPE) (22 CORE)					
R719	1-216-066-00	METAL CHIP	5.1K	5%	1/10W		< CONNECTOR >						
R720	1-216-083-00	METAL CHIP	27K	5%	1/10W		* PN4M5	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P				
R733	1-216-049-11	RES-CHIP	1K	5%	1/10W		< SWITCH >						
R734	1-216-049-11	RES-CHIP	1K	5%	1/10W		SW4M1	1-786-204-11	SWITCH, DETECTION (LOADING/OPEN)				
R735	1-216-009-91	RES-CHIP	22	5%	1/10W		*****						
R736	1-216-009-91	RES-CHIP	22	5%	1/10W		A-4731-044-A	BD-R BOARD, COMPLETE					
R737	1-216-049-11	RES-CHIP	1K	5%	1/10W		*****						
R738	1-216-057-00	METAL CHIP	2.2K	5%	1/10W		< CAPACITOR >						
R740	1-216-049-11	RES-CHIP	1K	5%	1/10W		C201	1-124-779-00	ELECT CHIP	10uF	20%	16V	
R741	1-216-083-00	METAL CHIP	27K	5%	1/10W		C202	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
R742	1-216-051-00	METAL CHIP	1.2K	5%	1/10W		C207	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
R743	1-216-009-91	RES-CHIP	22	5%	1/10W		C208	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R744	1-216-009-91	RES-CHIP	22	5%	1/10W		C209	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R745	1-216-089-91	RES-CHIP	47K	5%	1/10W		C210	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R746	1-216-057-00	METAL CHIP	2.2K	5%	1/10W		C211	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
R749	1-216-089-91	RES-CHIP	47K	5%	1/10W		C212	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
R750	1-216-057-00	METAL CHIP	2.2K	5%	1/10W		C213	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
R752	1-216-089-91	RES-CHIP	47K	5%	1/10W		C214	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
R753	1-216-057-00	METAL CHIP	2.2K	5%	1/10W								
R763	1-216-049-11	RES-CHIP	1K	5%	1/10W								
R764	1-216-049-11	RES-CHIP	1K	5%	1/10W								
R766	1-216-059-00	METAL CHIP	2.7K	5%	1/10W								

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C215	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C316	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C216	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C317	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C217	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V						
C218	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C318	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C219	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C319	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
						C320	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C220	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C321	1-165-589-21	ELECT CHIP	220uF		6.3V
C221	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C322	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C222	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V						
C223	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C325	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C326	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
						C327	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C225	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C328	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C244	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V	C329	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C245	1-164-156-11	CERAMIC CHIP	0.1uF		25V						
C246	1-124-779-00	ELECT CHIP	10uF	20%	16V	C330	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C247	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C331	1-164-156-11	CERAMIC CHIP	0.1uF		25V
						C332	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C248	1-124-779-00	ELECT CHIP	10uF	20%	16V	C333	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C249	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C335	1-124-779-00	ELECT CHIP	10uF	20%	16V
C250	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C251	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C336	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C252	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C337	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
						C338	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C253	1-124-779-00	ELECT CHIP	10uF	20%	16V	C339	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C254	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C340	1-164-346-11	CERAMIC CHIP	1uF		16V
C255	1-164-156-11	CERAMIC CHIP	0.1uF		25V						
C256	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C341	1-124-779-00	ELECT CHIP	10uF	20%	16V
C258	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C342	1-164-156-11	CERAMIC CHIP	0.1uF		25V
						C343	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C259	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C344	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C260	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C345	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C261	1-124-779-00	ELECT CHIP	10uF	20%	16V						
C262	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C346	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C263	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C347	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C348	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C264	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V	C349	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C265	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C350	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C266	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V						
C268	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C351	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C269	1-124-779-00	ELECT CHIP	10uF	20%	16V	C352	1-117-681-11	ELECT CHIP	100uF	20%	16V
						C353	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V
C270	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	C354	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C271	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	C362	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C277	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C279	1-124-779-00	ELECT CHIP	10uF	20%	16V	C363	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C280	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C364	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
						C365	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C281	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C367	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C285	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C368	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C290	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V						
C291	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	C369	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C2A1	1-124-779-00	ELECT CHIP	10uF	20%	16V	C370	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
						C371	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C301	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C372	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C302	1-124-779-00	ELECT CHIP	10uF	20%	16V	C373	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C303	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C304	1-124-779-00	ELECT CHIP	10uF	20%	16V	C374	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V
C305	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C375	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V
						C376	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C306	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C377	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C307	1-162-920-11	CERAMIC CHIP	27PF	5%	50V	C378	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C308	1-162-920-11	CERAMIC CHIP	27PF	5%	50V						
C309	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C380	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C310	1-124-779-00	ELECT CHIP	10uF	20%	16V	C381	1-164-156-11	CERAMIC CHIP	0.1uF		25V
						C382	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C311	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C384	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C312	1-124-779-00	ELECT CHIP	10uF	20%	16V	C385	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C315	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C386	1-124-779-00	ELECT CHIP	10uF	20%	16V	C478	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C387	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C479	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C388	1-124-779-00	ELECT CHIP	10uF	20%	16V	C480	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C389	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C481	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C390	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C482	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C391	1-117-681-11	ELECT CHIP	100uF	20%	16V	C491	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C392	1-117-681-11	ELECT CHIP	100uF	20%	16V	C492	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C395	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C493	1-165-589-21	ELECT CHIP	220uF		6.3V
C396	1-162-912-11	CERAMIC CHIP	7PF	0.5PF	50V	C494	1-117-681-11	ELECT CHIP	100uF	20%	16V
C397	1-104-919-11	TANTAL. CHIP	10uF	10%	25V	C495	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C398	1-104-919-11	TANTAL. CHIP	10uF	10%	25V	C496	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C399	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	C497	1-165-592-21	CERAMIC	8200PF		50V
C401	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C498	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C402	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C499	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C403	1-164-346-11	CERAMIC CHIP	1uF		16V	C4A0	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C404	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C4A1	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C410	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C4A2	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C411	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	C4A3	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C412	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	C4A4	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C414	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C4A5	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C415	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C4A6	1-117-681-11	ELECT CHIP	100uF	20%	16V
C420	1-164-217-11	CERAMIC CHIP	150PF	5%	50V	C4A7	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C421	1-164-217-11	CERAMIC CHIP	150PF	5%	50V	C4A8	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C422	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C4A9	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C423	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C4E1	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C437	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C4E2	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C438	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C4E3	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C439	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C4E5	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C440	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C4E6	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C441	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C4F6	1-165-589-21	ELECT CHIP	220uF		6.3V
C442	1-164-346-11	CERAMIC CHIP	1uF		16V	C4F7	1-164-346-11	CERAMIC CHIP	1uF		16V
C443	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	C4F8	1-164-346-11	CERAMIC CHIP	1uF		16V
C444	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	C4G1	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C445	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C4G2	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C446	1-164-217-11	CERAMIC CHIP	150PF	5%	50V	C4G3	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C447	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	C501	1-164-346-11	CERAMIC CHIP	1uF		16V
C448	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C502	1-117-681-11	ELECT CHIP	100uF	20%	16V
C450	1-164-346-11	CERAMIC CHIP	1uF		16V	C503	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C451	1-164-346-11	CERAMIC CHIP	1uF		16V	C504	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C453	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C507	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C454	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V	C508	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C455	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	C510	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C456	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C511	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C457	1-124-779-00	ELECT CHIP	10uF	20%	16V	C513	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C458	1-124-779-00	ELECT CHIP	10uF	20%	16V	C514	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C463	1-124-779-00	ELECT CHIP	10uF	20%	16V	C515	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C464	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C516	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C465	1-126-204-11	ELECT CHIP	47uF	20%	16V	C517	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C468	1-162-928-11	CERAMIC CHIP	120PF	5%	50V	C518	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C469	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	C520	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C470	1-164-346-11	CERAMIC CHIP	1uF		16V	C521	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C471	1-164-346-11	CERAMIC CHIP	1uF		16V	C522	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C472	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C523	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C473	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C524	1-124-779-00	ELECT CHIP	10uF	20%	16V
C474	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C525	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C475	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C526	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C476	1-124-779-00	ELECT CHIP	10uF	20%	16V	C527	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C477	1-124-779-00	ELECT CHIP	10uF	20%	16V						

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BD-R

Ref. No.	Part No.	Description	Remark		Ref. No.	Part No.	Description	Remark	
C529	1-117-681-11	ELECT CHIP	100uF	20%	16V	* PN302	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
C530	1-164-156-11	CERAMIC CHIP	0.1uF		25V	PN303	1-784-364-21	CONNECTOR, FFC/FPC 4P	
C531	1-117-681-11	ELECT CHIP	100uF	20%	16V	PN304	1-793-989-21	CONNECTOR, FFC/FPC 13P	
C532	1-164-156-11	CERAMIC CHIP	0.1uF		25V				
C533	1-117-681-11	ELECT CHIP	100uF	20%	16V	PN401	1-784-378-21	CONNECTOR, FFC/FPC 20P	
C534	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	PN402	1-815-765-11	SOCKET, CONNECTOR 6P	
C539	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	PN403	1-784-379-11	CONNECTOR, FFC/FPC 22P	
C540	1-165-592-21	CERAMIC	8200PF		50V	PN406	1-784-376-11	CONNECTOR, FFC/FPC 17P	
C541	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	PN501	1-784-386-21	CONNECTOR, FFC/FPC 30P	
< DIODE >					PN503	1-817-107-11	CONNECTOR 12P		
D301	8-719-084-78	DIODE KDS121			< TRANSISTOR >				
D402	8-719-084-79	DIODE KDS187			Q301	1-801-806-11	TRANSISTOR DTC144EKA		
< IC >					Q302	1-801-806-11	TRANSISTOR DTC144EKA		
IC201	6-700-905-01	IC OTI-9790CE			Q303	1-801-806-11	TRANSISTOR DTC144EKA		
IC202	8-759-486-65	IC GM71VS18163CLT-6			Q402	8-729-056-33	TRANSISTOR KTD1304S		
IC203	6-802-438-01	IC HD64F3062BFBL-W3CDR			Q501	8-729-216-22	TRANSISTOR 2SA1162-G		
IC207	6-700-341-01	IC CST0100C			< RESISTOR >				
IC208	8-759-466-52	IC CAT93C86S-LE10			R201	1-216-841-11	METAL CHIP 47K	5%	1/16W
IC210	8-759-458-10	IC BA3939-E2			R203	1-216-813-11	METAL CHIP 220	5%	1/16W
IC301	8-752-097-68	IC CXA3558R			R205	1-216-833-11	METAL CHIP 10K	5%	1/16W
IC302	8-759-359-49	IC NJM3414AV(TE2)			R206	1-216-833-11	METAL CHIP 10K	5%	1/16W
IC303	6-702-529-01	IC M63021FP			R208	1-216-833-11	METAL CHIP 10K	5%	1/16W
IC304	8-759-635-27	IC M62352GP-75E			R209	1-216-864-11	METAL CHIP 0	5%	1/16W
IC305	8-759-338-95	IC NJM2903V(TE2)			R210	1-216-813-11	METAL CHIP 220	5%	1/16W
IC306	8-759-058-43	IC NJM3404AV			R211	1-216-813-11	METAL CHIP 220	5%	1/16W
IC307	8-759-575-32	IC NC7SZ66P5X			R213	1-216-864-11	METAL CHIP 0	5%	1/16W
IC308	8-759-082-58	IC TC7W08FU-TE12L			R214	1-216-835-11	METAL CHIP 15K	5%	1/16W
IC402	8-752-408-51	IC CXD3023R			R215	1-216-830-11	METAL CHIP 5.6K	5%	1/16W
IC403	8-752-089-74	IC CXA2581N-T4			R216	1-216-821-11	METAL CHIP 1K	5%	1/16W
IC404	8-759-370-11	IC NJM2100V-TE2			R217	1-216-812-11	METAL CHIP 180	5%	1/16W
IC405	6-702-529-01	IC M63021FP			R218	1-216-813-11	METAL CHIP 220	5%	1/16W
IC406	8-759-448-71	IC BU4053BCFV-E2			R219	1-216-813-11	METAL CHIP 220	5%	1/16W
IC407	6-802-439-01	IC HD64F3062BFBL-W3CDP			R220	1-216-813-11	METAL CHIP 220	5%	1/16W
IC408	6-703-236-01	IC FS781BZB			R221	1-216-813-11	METAL CHIP 220	5%	1/16W
IC409	6-700-342-01	IC XC61CN3002			R222	1-216-813-11	METAL CHIP 220	5%	1/16W
IC410	6-703-237-01	IC RH5RZ27C			R223	1-216-813-11	METAL CHIP 220	5%	1/16W
IC502	6-700-346-01	IC CS8420-CSR			R224	1-216-813-11	METAL CHIP 220	5%	1/16W
IC510	6-801-923-01	IC VC01S05			R225	1-216-813-11	METAL CHIP 220	5%	1/16W
< COIL >					R226	1-216-813-11	METAL CHIP 220	5%	1/16W
L201	1-412-058-11	INDUCTOR CHIP	10uH		R227	1-216-864-11	METAL CHIP 0	5%	1/16W
L301	1-412-058-11	INDUCTOR CHIP	10uH		R228	1-216-839-11	METAL CHIP 33K	5%	1/16W
L302	1-412-058-11	INDUCTOR CHIP	10uH		R231	1-216-815-11	METAL CHIP 330	5%	1/16W
L304	1-412-058-11	INDUCTOR CHIP	10uH		R232	1-216-813-11	METAL CHIP 220	5%	1/16W
L306	1-412-058-11	INDUCTOR CHIP	10uH		R233	1-216-813-11	METAL CHIP 220	5%	1/16W
L441	1-412-058-11	INDUCTOR CHIP	10uH		R234	1-216-815-11	METAL CHIP 330	5%	1/16W
L442	1-412-058-11	INDUCTOR CHIP	10uH		R235	1-216-864-11	METAL CHIP 0	5%	1/16W
L491	1-412-058-11	INDUCTOR CHIP	10uH		R236	1-216-813-11	METAL CHIP 220	5%	1/16W
L501	1-412-058-11	INDUCTOR CHIP	10uH		R237	1-216-813-11	METAL CHIP 220	5%	1/16W
L502	1-400-090-21	FERRITE	0uH		R238	1-216-864-11	METAL CHIP 0	5%	1/16W
L505	1-412-058-11	INDUCTOR CHIP	10uH		R240	1-216-829-11	METAL CHIP 4.7K	5%	1/16W
L507	1-412-058-11	INDUCTOR CHIP	10uH		R241	1-216-813-11	METAL CHIP 220	5%	1/16W
< CONNECTOR >					R242	1-216-813-11	METAL CHIP 220	5%	1/16W
PN105	1-815-765-11	SOCKET, CONNECTOR 6P			R243	1-216-813-11	METAL CHIP 220	5%	1/16W
PN301	1-815-764-11	CONNECTOR, FFC			R244	1-216-813-11	METAL CHIP 220	5%	1/16W
					R245	1-216-813-11	METAL CHIP 220	5%	1/16W
					R247	1-216-805-11	METAL CHIP 47	5%	1/16W
					R248	1-216-805-11	METAL CHIP 47	5%	1/16W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R249	1-216-805-11	METAL CHIP	47	5%	1/16W	R323	1-216-839-11	METAL CHIP	33K	5%	1/16W
R250	1-216-805-11	METAL CHIP	47	5%	1/16W	R324	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
R251	1-216-805-11	METAL CHIP	47	5%	1/16W						
R252	1-216-805-11	METAL CHIP	47	5%	1/16W	R325	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
R253	1-216-805-11	METAL CHIP	47	5%	1/16W	R326	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
						R327	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R254	1-216-805-11	METAL CHIP	47	5%	1/16W	R328	1-216-833-11	METAL CHIP	10K	5%	1/16W
R255	1-216-805-11	METAL CHIP	47	5%	1/16W	R329	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R259	1-216-811-11	METAL CHIP	150	5%	1/16W						
R260	1-216-845-11	METAL CHIP	100K	5%	1/16W	R330	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R261	1-216-809-11	METAL CHIP	100	5%	1/16W	R331	1-216-298-00	METAL CHIP	2.2	5%	1/10W
						R332	1-216-813-11	METAL CHIP	220	5%	1/16W
R262	1-216-809-11	METAL CHIP	100	5%	1/16W	R333	1-216-837-11	METAL CHIP	22K	5%	1/16W
R263	1-216-809-11	METAL CHIP	100	5%	1/16W	R335	1-216-836-11	METAL CHIP	18K	5%	1/16W
R264	1-216-809-11	METAL CHIP	100	5%	1/16W						
R265	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R336	1-216-833-11	METAL CHIP	10K	5%	1/16W
R266	1-216-833-11	METAL CHIP	10K	5%	1/16W	R337	1-216-837-11	METAL CHIP	22K	5%	1/16W
						R338	1-216-833-11	METAL CHIP	10K	5%	1/16W
R267	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R339	1-216-833-11	METAL CHIP	10K	5%	1/16W
R268	1-216-813-11	METAL CHIP	220	5%	1/16W	R340	1-216-844-11	METAL CHIP	82K	5%	1/16W
R269	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R270	1-216-821-11	METAL CHIP	1K	5%	1/16W	R350	1-216-843-11	METAL CHIP	68K	5%	1/16W
R271	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R351	1-216-838-11	METAL CHIP	27K	5%	1/16W
						R352	1-216-838-11	METAL CHIP	27K	5%	1/16W
R277	1-216-833-11	METAL CHIP	10K	5%	1/16W	R353	1-216-843-11	METAL CHIP	68K	5%	1/16W
R279	1-216-864-11	METAL CHIP	0	5%	1/16W	R354	1-216-851-11	METAL CHIP	330K	5%	1/16W
R280	1-216-805-11	METAL CHIP	47	5%	1/16W						
R281	1-216-805-11	METAL CHIP	47	5%	1/16W	R355	1-216-857-11	METAL CHIP	1M	5%	1/16W
R283	1-216-805-11	METAL CHIP	47	5%	1/16W	R356	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R357	1-216-817-11	METAL CHIP	470	5%	1/16W
R284	1-216-809-11	METAL CHIP	100	5%	1/16W	R358	1-216-833-11	METAL CHIP	10K	5%	1/16W
R285	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R359	1-216-821-11	METAL CHIP	1K	5%	1/16W
R286	1-216-829-11	METAL CHIP	4.7K	5%	1/16W						
R287	1-216-821-11	METAL CHIP	1K	5%	1/16W	R360	1-216-809-11	METAL CHIP	100	5%	1/16W
R288	1-216-817-11	METAL CHIP	470	5%	1/16W	R361	1-216-819-11	METAL CHIP	680	5%	1/16W
						R362	1-216-819-11	METAL CHIP	680	5%	1/16W
R289	1-216-817-11	METAL CHIP	470	5%	1/16W	R363	1-216-819-11	METAL CHIP	680	5%	1/16W
R290	1-216-805-11	METAL CHIP	47	5%	1/16W	R364	1-216-819-11	METAL CHIP	680	5%	1/16W
R291	1-216-805-11	METAL CHIP	47	5%	1/16W						
R292	1-216-833-11	METAL CHIP	10K	5%	1/16W	R365	1-216-819-11	METAL CHIP	680	5%	1/16W
R293	1-216-833-11	METAL CHIP	10K	5%	1/16W	R368	1-216-864-11	METAL CHIP	0	5%	1/16W
						R369	1-216-864-11	METAL CHIP	0	5%	1/16W
R294	1-216-833-11	METAL CHIP	10K	5%	1/16W	R370	1-216-864-11	METAL CHIP	0	5%	1/16W
R295	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R371	1-216-864-11	METAL CHIP	0	5%	1/16W
R296	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R2Q1	1-216-809-11	METAL CHIP	100	5%	1/16W	R372	1-216-864-11	METAL CHIP	0	5%	1/16W
R2Q2	1-216-809-11	METAL CHIP	100	5%	1/16W	R373	1-216-864-11	METAL CHIP	0	5%	1/16W
						R374	1-216-850-11	METAL CHIP	270K	5%	1/16W
R301	1-216-822-11	METAL CHIP	1.2K	5%	1/16W	R375	1-216-833-11	METAL CHIP	10K	5%	1/16W
R302	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R376	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R303	1-216-817-11	METAL CHIP	470	5%	1/16W						
R304	1-216-833-11	METAL CHIP	10K	5%	1/16W	R377	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R305	1-216-864-11	METAL CHIP	0	5%	1/16W	R388	1-216-839-11	METAL CHIP	33K	5%	1/16W
						R389	1-216-839-11	METAL CHIP	33K	5%	1/16W
R306	1-216-819-11	METAL CHIP	680	5%	1/16W	R390	1-216-833-11	METAL CHIP	10K	5%	1/16W
R307	1-216-819-11	METAL CHIP	680	5%	1/16W	R391	1-216-837-11	METAL CHIP	22K	5%	1/16W
R308	1-216-841-11	METAL CHIP	47K	5%	1/16W						
R313	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R392	1-216-864-11	METAL CHIP	0	5%	1/16W
R314	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R394	1-216-864-11	METAL CHIP	0	5%	1/16W
						R396	1-216-835-11	METAL CHIP	15K	5%	1/16W
R315	1-216-835-11	METAL CHIP	15K	5%	1/16W	R397	1-216-850-11	METAL CHIP	270K	5%	1/16W
R316	1-216-835-11	METAL CHIP	15K	5%	1/16W	R398	1-216-837-11	METAL CHIP	22K	5%	1/16W
R317	1-216-298-00	METAL CHIP	2.2	5%	1/10W						
R318	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R399	1-216-835-11	METAL CHIP	15K	5%	1/16W
R319	1-216-801-11	METAL CHIP	22	5%	1/16W	R3A1	1-216-864-11	METAL CHIP	0	5%	1/16W
						R3A2	1-216-835-11	METAL CHIP	15K	5%	1/16W
R320	1-216-801-11	METAL CHIP	22	5%	1/16W	R3A3	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R321	1-216-801-11	METAL CHIP	22	5%	1/16W	R3A4	1-216-834-11	METAL CHIP	12K	5%	1/16W
R322	1-216-801-11	METAL CHIP	22	5%	1/16W						

RCD-W3

BD-R

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R3A5	1-216-833-11	METAL CHIP	10K	5%	1/16W	R447	1-216-857-11	METAL CHIP	1M	5%	1/16W
R3A7	1-216-864-11	METAL CHIP	0	5%	1/16W	R448	1-216-864-11	METAL CHIP	0	5%	1/16W
R3A8	1-216-864-11	METAL CHIP	0	5%	1/16W						
R3A9	1-216-813-11	METAL CHIP	220	5%	1/16W	R449	1-216-864-11	METAL CHIP	0	5%	1/16W
R3C1	1-216-837-11	METAL CHIP	22K	5%	1/16W	R450	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
						R451	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R3C2	1-216-839-11	METAL CHIP	33K	5%	1/16W	R452	1-216-845-11	METAL CHIP	100K	5%	1/16W
R3C3	1-216-864-11	METAL CHIP	0	5%	1/16W	R453	1-216-839-11	METAL CHIP	33K	5%	1/16W
R3C5	1-216-864-11	METAL CHIP	0	5%	1/16W						
R3C6	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R455	1-216-839-11	METAL CHIP	33K	5%	1/16W
R3C7	1-216-837-11	METAL CHIP	22K	5%	1/16W	R456	1-216-837-11	METAL CHIP	22K	5%	1/16W
						R457	1-216-833-11	METAL CHIP	10K	5%	1/16W
R3C8	1-216-864-11	METAL CHIP	0	5%	1/16W	R458	1-216-844-11	METAL CHIP	82K	5%	1/16W
R3C9	1-216-864-11	METAL CHIP	0	5%	1/16W	R460	1-216-833-11	METAL CHIP	10K	5%	1/16W
R3D1	1-216-864-11	METAL CHIP	0	5%	1/16W						
R3D2	1-216-864-11	METAL CHIP	0	5%	1/16W	R461	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R3D3	1-216-864-11	METAL CHIP	0	5%	1/16W	R462	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R463	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R3D4	1-216-864-11	METAL CHIP	0	5%	1/16W	R465	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R3D5	1-216-864-11	METAL CHIP	0	5%	1/16W	R466	1-216-833-11	METAL CHIP	10K	5%	1/16W
R3D6	1-216-864-11	METAL CHIP	0	5%	1/16W						
R3K1	1-218-271-11	METAL CHIP	2K	5%	1/10W	R467	1-216-833-11	METAL CHIP	10K	5%	1/16W
R400	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R468	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
						R469	1-216-848-11	METAL CHIP	180K	5%	1/16W
R401	1-216-809-11	METAL CHIP	100	5%	1/16W	R470	1-216-864-11	METAL CHIP	0	5%	1/16W
R402	1-216-809-11	METAL CHIP	100	5%	1/16W	R471	1-216-843-11	METAL CHIP	68K	5%	1/16W
R403	1-216-809-11	METAL CHIP	100	5%	1/16W						
R404	1-216-809-11	METAL CHIP	100	5%	1/16W	R472	1-216-833-11	METAL CHIP	10K	5%	1/16W
R405	1-216-809-11	METAL CHIP	100	5%	1/16W	R473	1-216-834-11	METAL CHIP	12K	5%	1/16W
						R474	1-216-834-11	METAL CHIP	12K	5%	1/16W
R407	1-216-809-11	METAL CHIP	100	5%	1/16W	R475	1-216-864-11	METAL CHIP	0	5%	1/16W
R408	1-216-809-11	METAL CHIP	100	5%	1/16W	R476	1-216-864-11	METAL CHIP	0	5%	1/16W
R409	1-216-809-11	METAL CHIP	100	5%	1/16W						
R410	1-216-809-11	METAL CHIP	100	5%	1/16W	R477	1-216-801-11	METAL CHIP	22	5%	1/16W
R411	1-216-833-11	METAL CHIP	10K	5%	1/16W	R478	1-216-807-11	METAL CHIP	68	5%	1/16W
						R479	1-216-807-11	METAL CHIP	68	5%	1/16W
R412	1-216-845-11	METAL CHIP	100K	5%	1/16W	R480	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R413	1-216-864-11	METAL CHIP	0	5%	1/16W	R481	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R414	1-216-809-11	METAL CHIP	100	5%	1/16W						
R416	1-216-809-11	METAL CHIP	100	5%	1/16W	R482	1-216-833-11	METAL CHIP	10K	5%	1/16W
R417	1-216-809-11	METAL CHIP	100	5%	1/16W	R483	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R484	1-216-845-11	METAL CHIP	100K	5%	1/16W
R418	1-216-864-11	METAL CHIP	0	5%	1/16W	R485	1-216-843-11	METAL CHIP	68K	5%	1/16W
R419	1-216-864-11	METAL CHIP	0	5%	1/16W	R486	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R420	1-216-864-11	METAL CHIP	0	5%	1/16W						
R421	1-216-864-11	METAL CHIP	0	5%	1/16W	R487	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R422	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R488	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
						R489	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R423	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R490	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R424	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R491	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R425	1-216-829-11	METAL CHIP	4.7K	5%	1/16W						
R426	1-216-809-11	METAL CHIP	100	5%	1/16W	R492	1-216-864-11	METAL CHIP	0	5%	1/16W
R427	1-216-864-11	METAL CHIP	0	5%	1/16W	R493	1-216-845-11	METAL CHIP	100K	5%	1/16W
						R494	1-216-833-11	METAL CHIP	10K	5%	1/16W
R432	1-216-864-11	METAL CHIP	0	5%	1/16W	R495	1-216-833-11	METAL CHIP	10K	5%	1/16W
R433	1-216-864-11	METAL CHIP	0	5%	1/16W	R496	1-216-838-11	METAL CHIP	27K	5%	1/16W
R434	1-216-803-11	METAL CHIP	33	5%	1/16W						
R435	1-216-803-11	METAL CHIP	33	5%	1/16W	R497	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R436	1-216-803-11	METAL CHIP	33	5%	1/16W	R498	1-216-837-11	METAL CHIP	22K	5%	1/16W
						R499	1-216-833-11	METAL CHIP	10K	5%	1/16W
R437	1-216-803-11	METAL CHIP	33	5%	1/16W	R4A0	1-216-836-11	METAL CHIP	18K	5%	1/16W
R440	1-216-845-11	METAL CHIP	100K	5%	1/16W	R4A1	1-216-833-11	METAL CHIP	10K	5%	1/16W
R441	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R442	1-216-839-11	METAL CHIP	33K	5%	1/16W	R4A2	1-216-817-11	METAL CHIP	470	5%	1/16W
R443	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R4A3	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R4A4	1-216-833-11	METAL CHIP	10K	5%	1/16W
R444	1-216-833-11	METAL CHIP	10K	5%	1/16W	R4A5	1-216-833-11	METAL CHIP	10K	5%	1/16W
R445	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R4A6	1-216-817-11	METAL CHIP	470	5%	1/16W
R446	1-216-851-11	METAL CHIP	330K	5%	1/16W						

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Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R4A7	1-216-817-11	METAL CHIP	470	5%	1/16W	R518	1-216-864-11	METAL CHIP	0	5%	1/16W
R4A8	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R519	1-216-864-11	METAL CHIP	0	5%	1/16W
R4A9	1-216-298-00	METAL CHIP	2.2	5%	1/10W						
R4C0	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R520	1-216-864-11	METAL CHIP	0	5%	1/16W
R4C1	1-216-813-11	METAL CHIP	220	5%	1/16W	R521	1-216-864-11	METAL CHIP	0	5%	1/16W
						R522	1-216-864-11	METAL CHIP	0	5%	1/16W
R4C2	1-216-813-11	METAL CHIP	220	5%	1/16W	R524	1-216-833-11	METAL CHIP	10K	5%	1/16W
R4C3	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R525	1-216-809-11	METAL CHIP	100	5%	1/16W
R4C4	1-216-298-00	METAL CHIP	2.2	5%	1/10W						
R4C5	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R526	1-216-809-11	METAL CHIP	100	5%	1/16W
R4C6	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R527	1-216-809-11	METAL CHIP	100	5%	1/16W
						R528	1-216-809-11	METAL CHIP	100	5%	1/16W
R4C7	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R529	1-216-815-11	METAL CHIP	330	5%	1/16W
R4C8	1-216-835-11	METAL CHIP	15K	5%	1/16W	R530	1-216-815-11	METAL CHIP	330	5%	1/16W
R4C9	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R4CA	1-216-835-11	METAL CHIP	15K	5%	1/16W	R531	1-216-815-11	METAL CHIP	330	5%	1/16W
R4CC	1-216-833-11	METAL CHIP	10K	5%	1/16W	R532	1-216-813-11	METAL CHIP	220	5%	1/16W
						R533	1-216-813-11	METAL CHIP	220	5%	1/16W
R4E0	1-216-809-11	METAL CHIP	100	5%	1/16W	R534	1-216-813-11	METAL CHIP	220	5%	1/16W
R4E3	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R535	1-216-815-11	METAL CHIP	330	5%	1/16W
R4E5	1-216-864-11	METAL CHIP	0	5%	1/16W						
R4E7	1-216-803-11	METAL CHIP	33	5%	1/16W	R590	1-216-864-11	METAL CHIP	0	5%	1/16W
R4E8	1-216-809-11	METAL CHIP	100	5%	1/16W	R5Q1	1-216-809-11	METAL CHIP	100	5%	1/16W
						R5S1	1-216-864-11	METAL CHIP	0	5%	1/16W
R4E9	1-216-809-11	METAL CHIP	100	5%	1/16W	R5S2	1-216-864-11	METAL CHIP	0	5%	1/16W
R4F0	1-216-809-11	METAL CHIP	100	5%	1/16W	R5S3	1-216-864-11	METAL CHIP	0	5%	1/16W
R4F1	1-216-809-11	METAL CHIP	100	5%	1/16W						
R4F2	1-216-833-11	METAL CHIP	10K	5%	1/16W	R5T6	1-216-864-11	METAL CHIP	0	5%	1/16W
R4F3	1-216-833-11	METAL CHIP	10K	5%	1/16W	R5T7	1-216-864-11	METAL CHIP	0	5%	1/16W
R4F7	1-216-833-11	METAL CHIP	10K	5%	1/16W			< NETWORK >			
R4F8	1-216-844-11	METAL CHIP	82K	5%	1/16W						
R4F9	1-216-838-11	METAL CHIP	27K	5%	1/16W	RR201	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R4G0	1-216-836-11	METAL CHIP	18K	5%	1/16W	RR202	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R4G1	1-216-836-11	METAL CHIP	18K	5%	1/16W	RR203	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
						RR204	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R4G2	1-216-836-11	METAL CHIP	18K	5%	1/16W						
R4G3	1-216-864-11	METAL CHIP	0	5%	1/16W	RR205	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R4K1	1-216-809-11	METAL CHIP	100	5%	1/16W	RR206	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R4K2	1-216-809-11	METAL CHIP	100	5%	1/16W	RR501	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R4K6	1-216-864-11	METAL CHIP	0	5%	1/16W	RR502	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
						RR503	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R4K7	1-216-864-11	METAL CHIP	0	5%	1/16W						
R4L9	1-216-864-11	METAL CHIP	0	5%	1/16W	RR504	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R4M1	1-216-845-11	METAL CHIP	100K	5%	1/16W	RR505	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R4M2	1-216-837-11	METAL CHIP	22K	5%	1/16W	RR506	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R4Q1	1-216-809-11	METAL CHIP	100	5%	1/16W	RR507	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R4S2	1-216-864-11	METAL CHIP	0	5%	1/16W			< SWITCH >			
R4S4	1-216-864-11	METAL CHIP	0	5%	1/16W						
R4S6	1-216-864-11	METAL CHIP	0	5%	1/16W	SW201	1-786-204-11	SWITCH, DETECTION (LOADING/OPEN)			
R4S8	1-216-864-11	METAL CHIP	0	5%	1/16W						
R501	1-216-813-11	METAL CHIP	220	5%	1/16W			< VIBRATOR >			
R502	1-216-813-11	METAL CHIP	220	5%	1/16W	X201	1-781-136-21	VIBRATOR, CERAMIC (20MHz)			
R503	1-216-841-11	METAL CHIP	47K	5%	1/16W	X401	1-795-349-11	VIBRATOR, CRYSTAL (33.86MHz)			
R504	1-216-821-11	METAL CHIP	1K	5%	1/16W	X402	1-781-136-21	VIBRATOR, CERAMIC (20MHz)			
R505	1-216-815-11	METAL CHIP	330	5%	1/16W						
R506	1-216-809-11	METAL CHIP	100	5%	1/16W			< ZENER DIODE >			
R507	1-218-272-11	METAL CHIP	5.1K	5%	1/10W	ZD201	8-719-914-43	DIODE DAN202K			
R509	1-216-864-11	METAL CHIP	0	5%	1/16W	ZD401	8-719-914-43	DIODE DAN202K			
R512	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	*****					
R513	1-216-864-11	METAL CHIP	0	5%	1/16W						
R514	1-216-864-11	METAL CHIP	0	5%	1/16W						
R515	1-216-864-11	METAL CHIP	0	5%	1/16W						
R516	1-216-864-11	METAL CHIP	0	5%	1/16W						
R517	1-216-864-11	METAL CHIP	0	5%	1/16W						

RCD-W3

FL	HP
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Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
< CAPACITOR >							R850	1-249-437-11	CARBON	47K	5%	1/4W	
C801	1-164-159-11	CERAMIC	0.1uF		50V		R851	1-249-437-11	CARBON	47K	5%	1/4W	
C802	1-164-159-11	CERAMIC	0.1uF		50V		< RECEIVER >						
C804	1-126-933-11	ELECT	100uF	20%	16V		RMC801 8-749-016-29 IC RPM6938						
C805	1-161-494-00	CERAMIC	0.022uF		25V		< SWITCH >						
C806	1-161-494-00	CERAMIC	0.022uF		25V								
C807	1-161-494-00	CERAMIC	0.022uF		25V		SW803	1-572-184-11	SWITCH, KEYBOARD (AMS ▶▶▶I)				
C810	1-164-159-11	CERAMIC	0.1uF		50V		SW804	1-572-184-11	SWITCH, KEYBOARD (AMS I◀◀◀)				
C811	1-162-282-31	CERAMIC	100PF	10%	50V		SW808	1-572-184-11	SWITCH, KEYBOARD (CD SYNCHRO NORMAL)				
C812	1-162-282-31	CERAMIC	100PF	10%	50V		SW810	1-572-184-11	SWITCH, KEYBOARD (INPUT)				
C813	1-162-282-31	CERAMIC	100PF	10%	50V		SW811	1-572-184-11	SWITCH, KEYBOARD (CD SYNCHRO HIGH)				
C816	1-162-211-31	CERAMIC	33PF	5%	50V		SW812	1-572-184-11	SWITCH, KEYBOARD (ERASE)				
C817	1-162-211-31	CERAMIC	33PF	5%	50V		SW813	1-572-184-11	SWITCH, KEYBOARD (FINALIZE)				
C818	1-164-159-11	CERAMIC	0.1uF		50V		SW814	1-572-184-11	SWITCH, KEYBOARD (LEVEL SYNC)				
C820	1-164-159-11	CERAMIC	0.1uF		50V		SW815	1-572-184-11	SWITCH, KEYBOARD (OPEN/CLOSE ≡)				
C821	1-164-159-11	CERAMIC	0.1uF		50V		SW816	1-572-184-11	SWITCH, KEYBOARD (TIME)				
C822	1-164-159-11	CERAMIC	0.1uF		50V		SW817	1-572-184-11	SWITCH, KEYBOARD (AMS I◀◀◀)				
C823	1-164-159-11	CERAMIC	0.1uF		50V		SW818	1-572-184-11	SWITCH, KEYBOARD (AMS ▶▶▶I)				
C826	1-164-159-11	CERAMIC	0.1uF		50V		SW819	1-572-184-11	SWITCH, KEYBOARD (RELAY)				
< CONNECTOR >							SW820	1-572-184-11	SWITCH, KEYBOARD (II)				
CN801	1-779-288-11	CONNECTOR, FFC(LIF(NON-ZIF))20P					SW821	1-572-184-11	SWITCH, KEYBOARD (▷)				
CN803	1-816-678-11	CONNECTOR (BOARD TO BOARD) 8P					SW822	1-572-184-11	SWITCH, KEYBOARD (■)				
< FLUORESCENT INDICATOR TUBE >							< VIBRATOR >						
FLD801	1-518-830-11	INDICATOR TUBE, FLUORESCENT					X801	1-795-348-11	VIBRATOR, CRYSTAL (5MHz)				
< IC >							HP BOARD						
IC801	6-800-228-01	IC uPD780232GC-LG1					*****						
IC802	8-759-971-11	IC KIA7042P-TP					< FERRITE BEAD >						
< RESISTOR >							BD801	1-400-104-11	INDUCTOR, FERRITE BEAD	0			
R803	1-247-843-11	CARBON	3.3K	5%	1/4W		BD802	1-400-104-11	INDUCTOR, FERRITE BEAD	0			
R804	1-249-424-11	CARBON	3.9K	5%	1/4W	F	BD803	1-400-104-11	INDUCTOR, FERRITE BEAD	0			
R807	1-249-420-11	CARBON	1.8K	5%	1/4W	F	< JACK >						
R808	1-249-422-11	CARBON	2.7K	5%	1/4W	F	JK802	1-815-702-11	JACK (LARGE TYPE) (PHONES)				
R809	1-247-843-11	CARBON	3.3K	5%	1/4W		< CONNECTOR >						
R810	1-249-424-11	CARBON	3.9K	5%	1/4W	F	* PN902	1-568-226-11	PIN, CONNECTOR(3.96MM PITCH)2P				
R811	1-249-426-11	CARBON	5.6K	5%	1/4W		< SWITCH >						
R812	1-249-428-11	CARBON	8.2K	5%	1/4W	F	PW801	1-771-757-12	SWITCH, PUSH (1 KEY) (POWER)				
R813	1-249-420-11	CARBON	1.8K	5%	1/4W	F	< RESISTOR >						
R814	1-249-422-11	CARBON	2.7K	5%	1/4W	F	R8H1	1-216-790-11	METAL CHIP	2.7	5%	1/16W	
R815	1-247-843-11	CARBON	3.3K	5%	1/4W		R8H2	1-216-790-11	METAL CHIP	2.7	5%	1/16W	
R816	1-249-424-11	CARBON	3.9K	5%	1/4W	F	< VARIABLE RESISTOR >						
R817	1-249-426-11	CARBON	5.6K	5%	1/4W		VR801	1-227-425-11	RES, VAR, CARBON 50K/50K (PHONE LEVEL)				
R818	1-249-428-11	CARBON	8.2K	5%	1/4W	F	*****						
R819	1-249-431-11	CARBON	15K	5%	1/4W		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.
R833	1-247-807-31	CARBON	100	5%	1/4W								
R834	1-247-843-11	CARBON	3.3K	5%	1/4W								
R841	1-249-425-11	CARBON	4.7K	5%	1/4W	F							
R842	1-249-417-11	CARBON	1K	5%	1/4W	F							
R843	1-249-417-11	CARBON	1K	5%	1/4W	F							
R844	1-249-417-11	CARBON	1K	5%	1/4W	F							
R845	1-249-417-11	CARBON	1K	5%	1/4W	F							
R847	1-249-437-11	CARBON	47K	5%	1/4W								
R848	1-249-437-11	CARBON	47K	5%	1/4W								
R849	1-249-437-11	CARBON	47K	5%	1/4W								

POWER

VOL

Ref. No.	Part No.	Description	Remark
	A-4731-043-A	POWER BOARD, COMPLETE (US,CND)	
	A-4731-046-A	POWER BOARD, COMPLETE (AEP,UK)	

Note:Parts with no description are out of service.			
	7-685-545-14	SCREW +BTP 3X6 TYPE2 N-S	
< BRIDGE DIODE >			
△ BD101	8-719-510-06	DIODE S1WB60	
< CAPACITOR >			
△ C103	1-165-878-11	ELECT 150uF	250V (US,CND)
△ C103	1-165-879-11	CAP, ELECT 100uF	400V (AEP,UK)
< DIODE >			
△ D102	8-719-085-16	DIODE EU01W	
D106	8-719-085-17	DIODE B10A45VI	
D107	8-719-085-16	DIODE EU01W	
D108	8-719-085-16	DIODE EU01W	
D110	8-719-085-15	DIODE RU3YXLF-C1	
D120	8-719-085-16	DIODE EU01W	
< IC >			
△ IC101	6-700-520-01	IC STR-G6153T	
△ IC102	6-700-521-01	PHOTO COUPLER PS2561-1-V	
IC104	6-700-522-01	IC KIA431	
IC105	8-759-574-75	IC KA78R33TU	
IC106	8-759-245-81	IC TA79008S	
IC107	8-759-231-55	IC TA7808S	
< TRANSFORMER >			
△ PT101	1-437-810-11	TRANSFORMER, POWER	
< RESISTOR >			
△ R101	1-244-389-11	METAL 2.7	2W
< ZENER DIODE >			
ZD101	8-719-109-85	DIODE MTZJ-5.1B	

VOL BOARD			

< CONNECTOR >			
* PN803	1-695-822-11	CONNECTOR, BOARD TO BOARD 8P	
< RESISTOR >			
R801	1-249-420-11	CARBON 1.8K	5% 1/4W F
R802	1-249-422-11	CARBON 2.7K	5% 1/4W F
R805	1-249-426-11	CARBON 5.6K	5% 1/4W F
R806	1-249-428-11	CARBON 8.2K	5% 1/4W F
< SWITCH >			
SW801	1-572-184-11	SWITCH, KEYBOARD (OPEN/CLOSE ☰)	
SW802	1-572-184-11	SWITCH, KEYBOARD (REC ●)	

Ref. No.	Part No.	Description	Remark
SW805	1-572-184-11	SWITCH, KEYBOARD (■)	
SW806	1-572-184-11	SWITCH, KEYBOARD (▷)	
SW807	1-572-184-11	SWITCH, KEYBOARD (■)	
< VARIABLE RESISTOR >			
VR802	1-223-799-11	RES, VAR, CARBON 20K/20K (REC LEVEL)	

MISCELLANEOUS			

11	1-824-266-11	WIRE (FLAT TYPE) (20 CORE)	
△ 54	1-823-044-11	CORD, POWER (US,CND)	
△ 54	1-824-779-11	CORD, POWER (UK)	
△ 54	1-824-780-11	CORD, POWER (AEP)	
57	1-824-264-11	WIRE (FLAT TYPE) (30 CORE)	
58	1-824-782-11	WIRE (FLAT TYPE) (22 CORE)	
△ 511	1-476-791-11	OPTICAL PICK-UP BLOCK	
512	1-824-781-11	WIRE (FLAT TYPE) (17 CORE)	
564	1-823-046-11	WIRE (FLAT TYPE) (32 CORE)	
△ F101	1-532-503-51	FUSE (1.6A 250V) (US,CND)	
△ F101	1-533-467-11	FUSE, GLASS TUBE (DIA. 5) (T1.6AL 250V)	(AEP,UK)

ACCESSORIES			

1-476-514-11	REMOTE COMMANDER (RM-R50)		
1-790-735-12	CORD, CONNECTION		
4-228-696-01	COVER, BATTERY (For RM-R50)		
4-243-586-01	MANUAL ASSY (ENGLISH) (US)		
4-243-587-01	MANUAL ASSY (ENGLISH,FRENCH) (CND)		
4-243-589-01	MANUAL ASSY(ENGLISH,FRENCH,GERMAN, DUTCH,SWEDISH,SPANISH,ITALIAN, PORTUGUESE)(AEP)		
4-243-590-01	MANUAL ASSY (ENGLISH) (UK)		

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

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

REVISION HISTORY

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

Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

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