

RCD-W1

SERVICE MANUAL

Ver 1.4 2003.06

US Model
Canadian Model
E Model



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

SPECIFICATIONS

DECK A (the CD player section)

System	Compact disc and digital audio system
Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$) Emission duration: continuous
Frequency response	20Hz–20,000kHz (0.5 dB)
Signal-to-noise ratio	More than 100 dB
Dynamic range	More than 93 dB

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

System	Compact disc digital audio system
Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$) 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 $\pm 0.5 \text{ dB}$
Signal-to-noise ratio	Over 96 dB during playback
Dynamic range	More than 93 dB during playback

Inputs

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

Optical wavelength
660 nm

Outputs

ANALOG OUT (Phono jacks)	impedance 47 kilohms Rated output 2 Vrms Load impedance over 10 kilohms
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OPTICAL DIGITAL OUT (Square optical connector jack)
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Wavelength 660 nm
Output level -18 dBm

General

Power requirements	120 V AC, 60 Hz
U.S.A. and Canada	28 W
Power consumption	
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

9-929-582-15
2003F02-1
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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

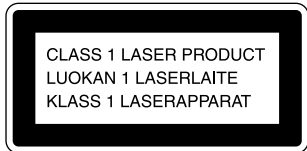
The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter 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.



This caution label is located inside the unit.

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

SAFETY CHECK-OUT
(US model only)

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)

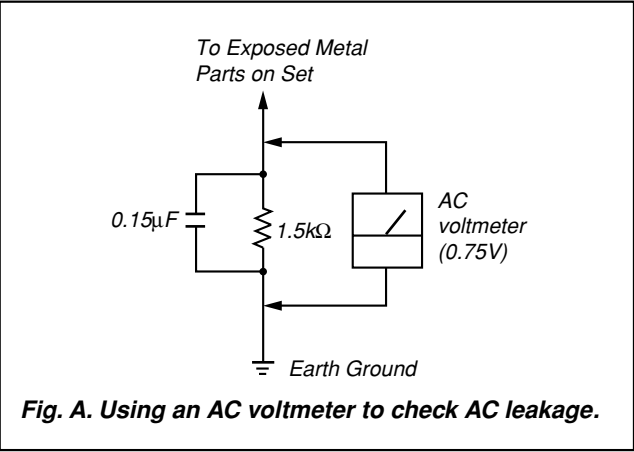


Fig. A. Using an AC voltmeter to check AC leakage.

ATTENTION AU COMPOSANT AYANT RAPPORT
À LA SÉCURITÉ!!

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

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 CD-Video disc has been placed in the machine.
DISC ERROR	- An unfinalized disc has been placed in the DECK A. - 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	- The disc is not seated properly. - There is a problem with the disc.
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.

TABLE OF CONTENTS

1. SERVICING NOTE	4
2. GENERAL	8
3. DISASSEMBLY	
3-1. Top Case	9
3-2. Tray Door, Front Panel Assy	10
3-3. HP board, FL board, VOL board	10
3-4. Back Panel	11
3-5. Audio Board	11
3-6. Power Board	12
3-7. CDP Deck assy (Deck A), CD-R Deck Assy (Deck B)	12
3-8. BD Board (Deck A)	13
3-9. CDP Mechanism Assy (Deck A)	13
3-10. Spindle Motor Assy, Pick-Up Block (Deck A)	14
3-11. BD-R Board	14
3-12. CD-R Mechanism Assy (Deck B)	15
3-13. Sled Mechanism Assy	15
4. ELECTRICAL ADJUSTMENT	16
5. DIAGRAMS	
5-1. Circuit Boards Location	23
5-2. Block diagrams – CD-R Section (1/2) –	25
Block diagrams – CD-R Section (2/2) –	26
Block diagrams – CDP Section –	27
Block diagrams – Audio Section –	28
Block diagrams – Power Section –	29
5-3. Printed Wiring Board – CD-R Section (Side A) –	30
Printed Wiring Board – CD-R Section (Side B) –	31
5-4. Schematic Diagram – CD-R Section (1/6) –	32
5-5. Schematic Diagram – CD-R Section (2/6) –	33
5-6. Schematic Diagram – CD-R Section (3/6) –	34
5-7. Schematic Diagram – CD-R Section (4/6) –	35
5-8. Schematic Diagram – CD-R Section (5/6) –	36
5-9. Schematic Diagram – CD-R Section (6/6) –	37
5-10. Printed Wiring Board – CDP Section (Side A) –	38
Printed Wiring Board – CDP Section (Side B) –	39
5-11. Schematic Diagram – CDP Section (1/3) –	40
5-12. Schematic Diagram – CDP Section (2/3) –	41
5-13. Schematic Diagram – CDP Section (3/3) –	42
5-14. Schematic Diagram – Audio Section (1/2) –	43
5-15. Schematic Diagram – Audio Section (2/2) –	44
5-16. Printed Wiring Board – Audio Section –	45
5-17. Printed Wiring Board – Panel Section –	46
5-18. Schematic Diagram – Panel Section –	47
5-19. Printed Wiring Board – Power Section –	48
5-20. Schematic Diagram – Power Section –	49
5-21. IC Pin Functions	50
5-22. IC Block Diagrams	55
6. EXPLODED VIEWS	
6-1. Front Panel Section	61
6-2. Chassis Section	62
6-3. CD Play Section (Deck A)	63
6-4. CD Record Section	64
7. ELECTRICAL PARTS LIST	65

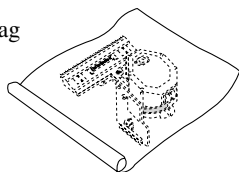
SECTION 1 SERVICING NOTE

NOTES REGARDING HANDLING OF THE PICK-UP

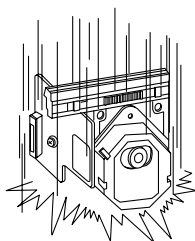
1. Notes for transport and storage

- 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

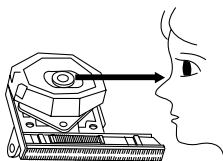


Drop impact



2. Repair notes

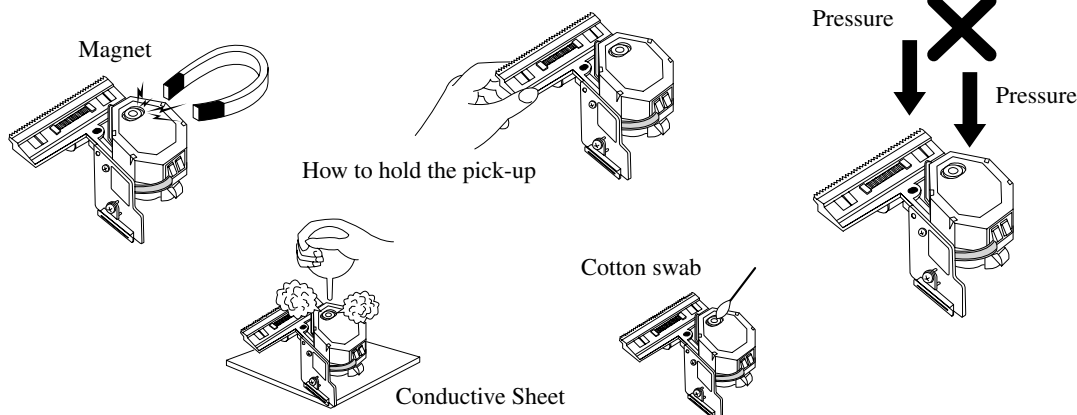
- 1) The pick-up incorporates a strong magnet, and so should never be brought close to magnetic materials.
- 2) The pick-up should always be handled correctly and carefully, taking care to avoid external pressure and impact. If it is subjected to pressure or impact, the result may be an operational malfunction 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.

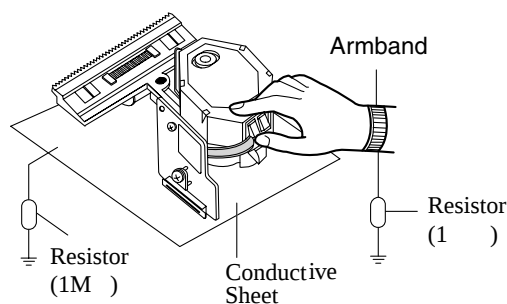
NOTES REGARDING COMPACT DISC PLAYER REPAIRS

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)
- 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.

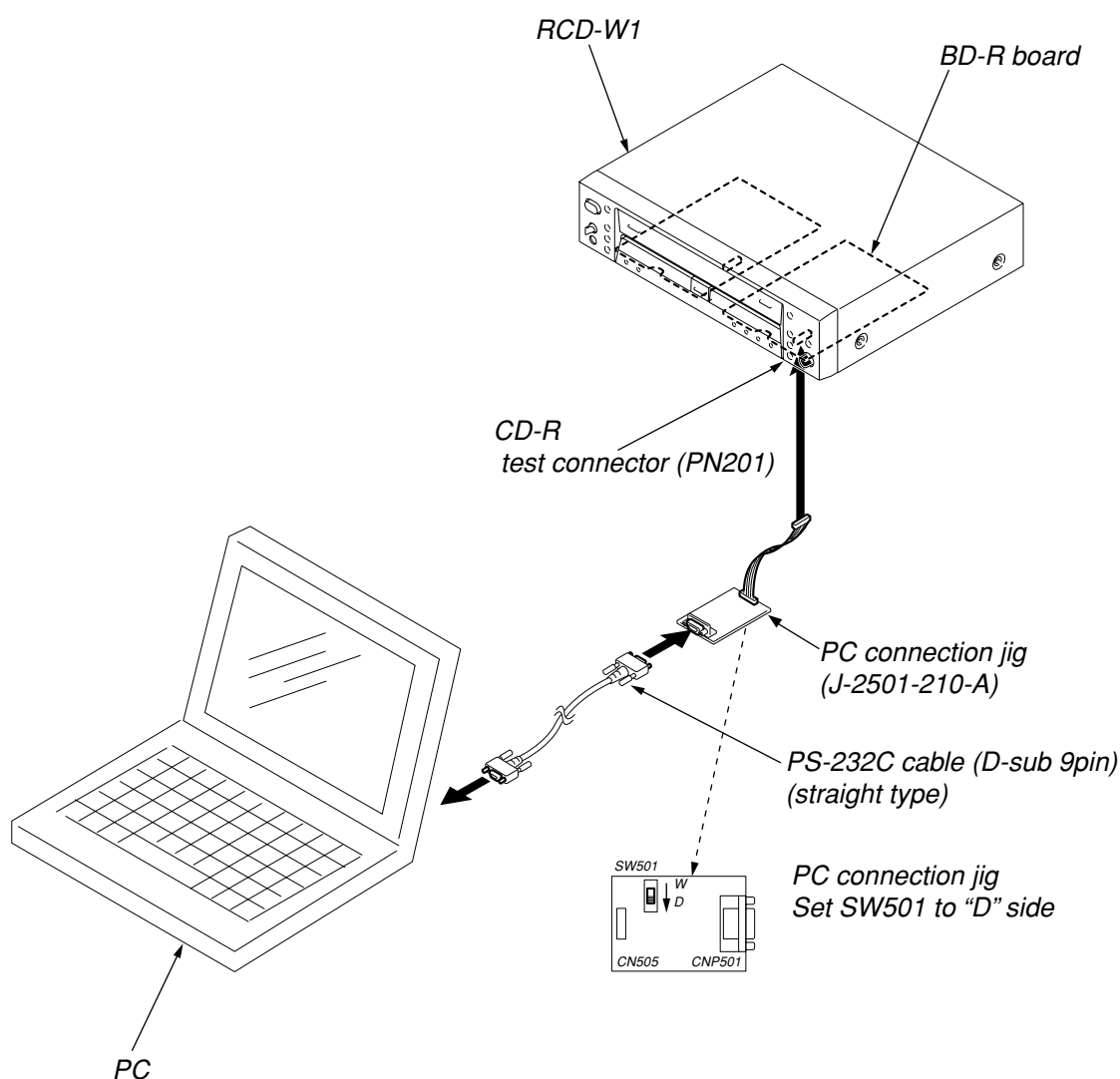
8. Minimize bodily motions when handling unpackaged replacement ESD devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).

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 : C903 (⊖) 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.

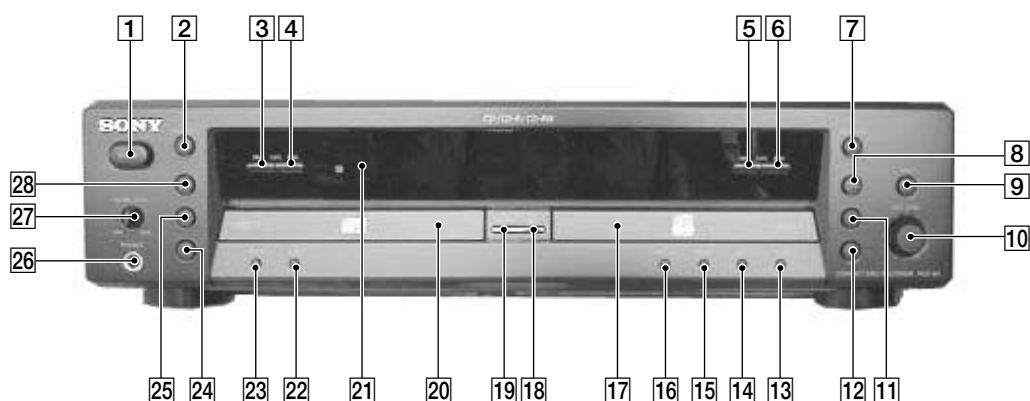
BD-R BOARD CHECK AND ADJUSTING JIGS

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

FRONT PANEL

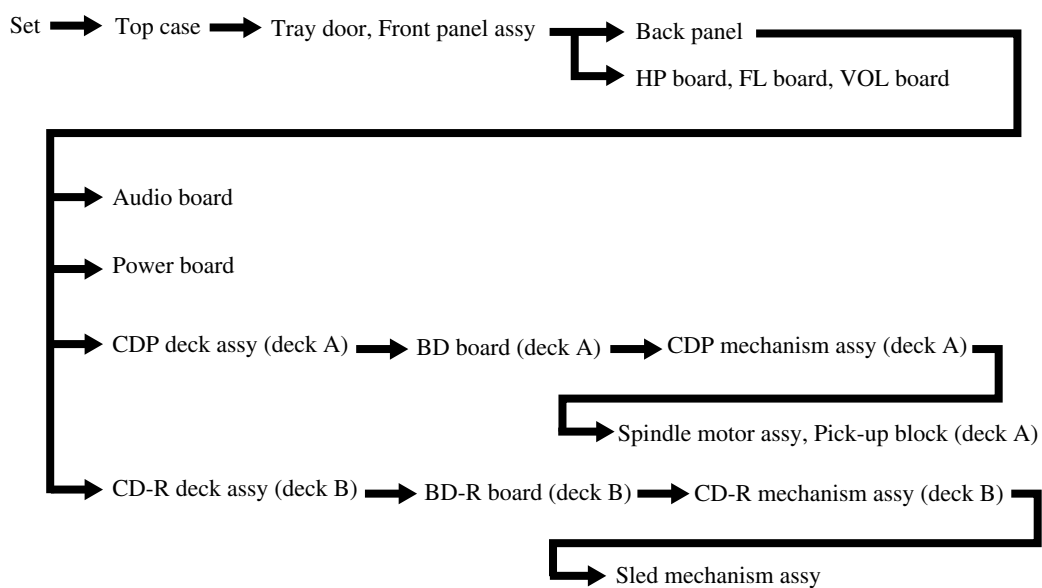


LOCATION OF PARTS AND CONTROLS

- | | |
|---------------------------------------|------------------------------------|
| 1 Power button | 15 ERASE button (DECK B) |
| 2 OPEN/CLOSE A button (DECK A) | 16 FINALIZE button (DECK B) |
| 3 ◀◀ AMS button (DECK A) | 17 DISC tray (DECK B) |
| 4 ▶▶ AMS button (DECK A) | 18 CD SYNCHRO HIGH button |
| 5 ◀◀ AMS button (DECK B) | 19 CD SYNCHRO NORMAL button |
| 6 ▶▶ AMS button (DECK B) | 20 DISC tray (DECK A) |
| 7 OPEN/CLOSE button (DECK B) | 21 remote sensor |
| 8 ▷ button (DECK B) | 22 TIME button (DECK A) |
| 9 ● REC button | 23 RELAY button (DECK A) |
| 10 REC LEVEL knob (DECK B) | 24 ■ button (DECK A) |
| 11 button (DECK B) | 25 button (DECK A) |
| 12 ■ button (DECK B) | 26 PHONE jack |
| 13 INPUT button (DECK B) | 27 PHONE LEVEL knob |
| 14 TIME button (DECK B) | 28 ▷ button (DECK A) |

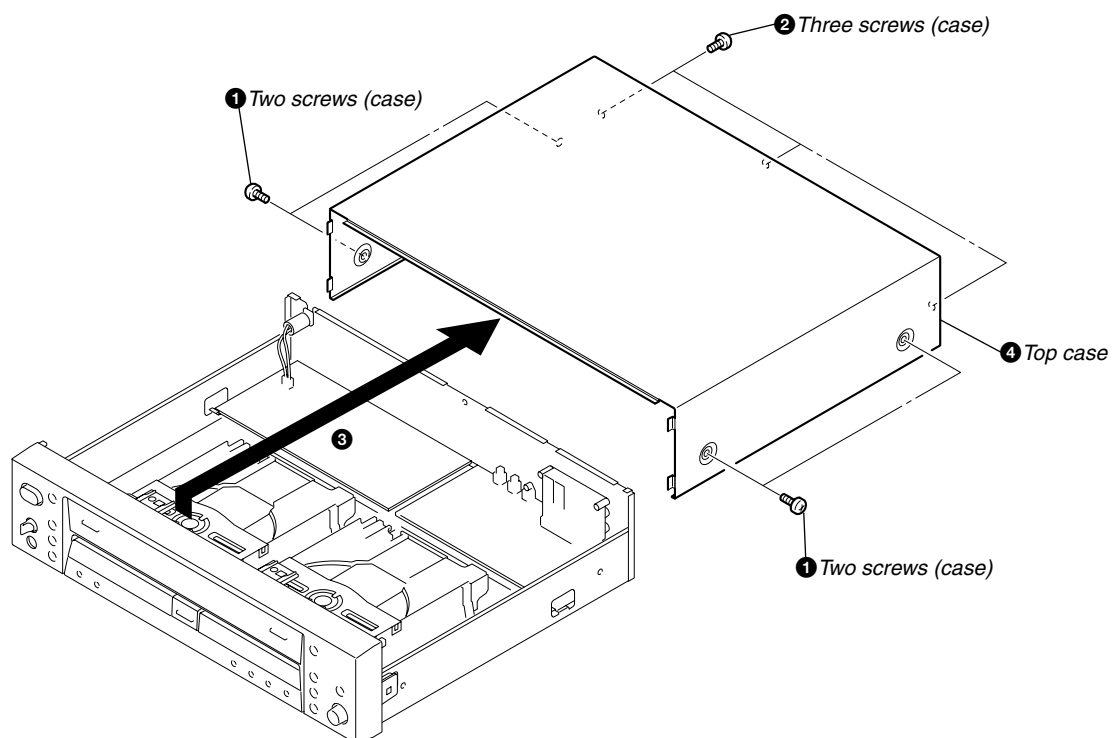
SECTION 3 DISASSEMBLY

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



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

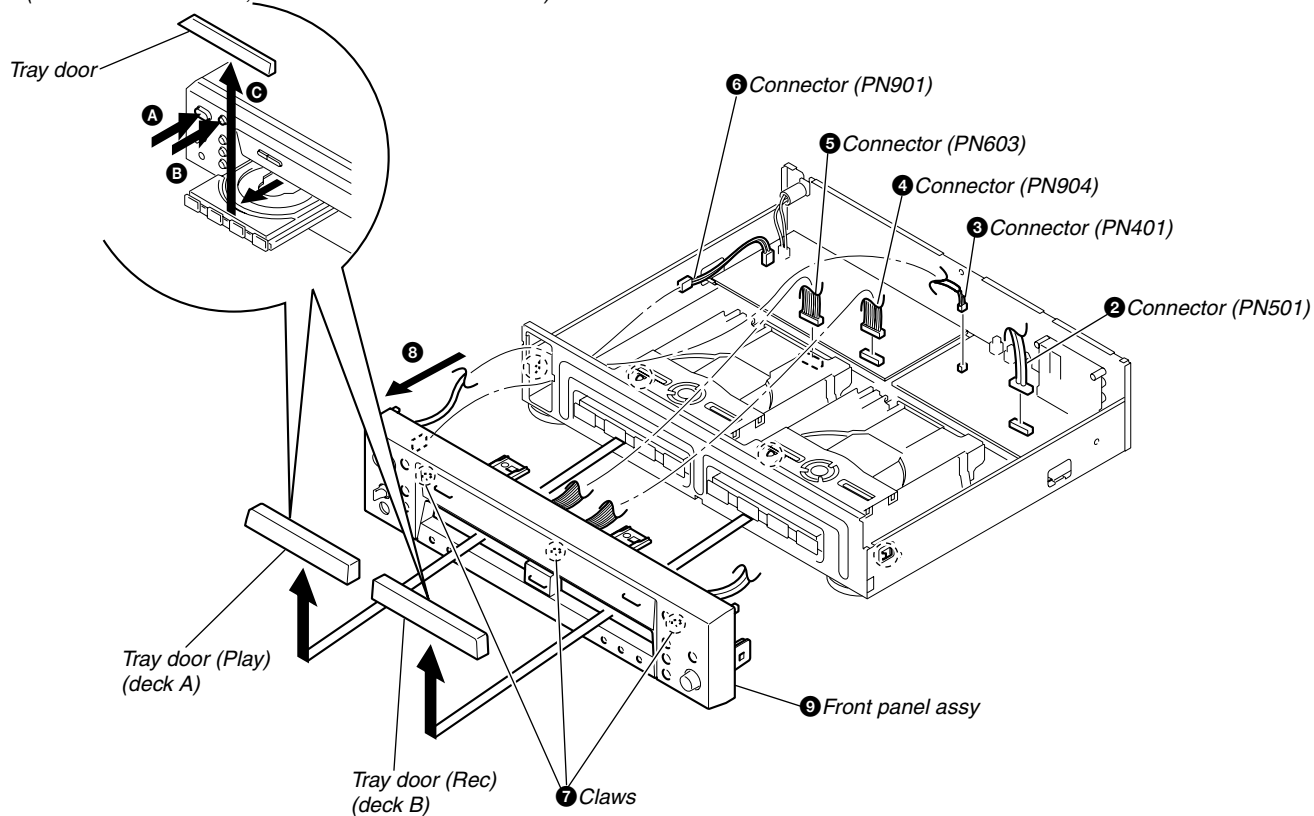
3-1. TOP CASE



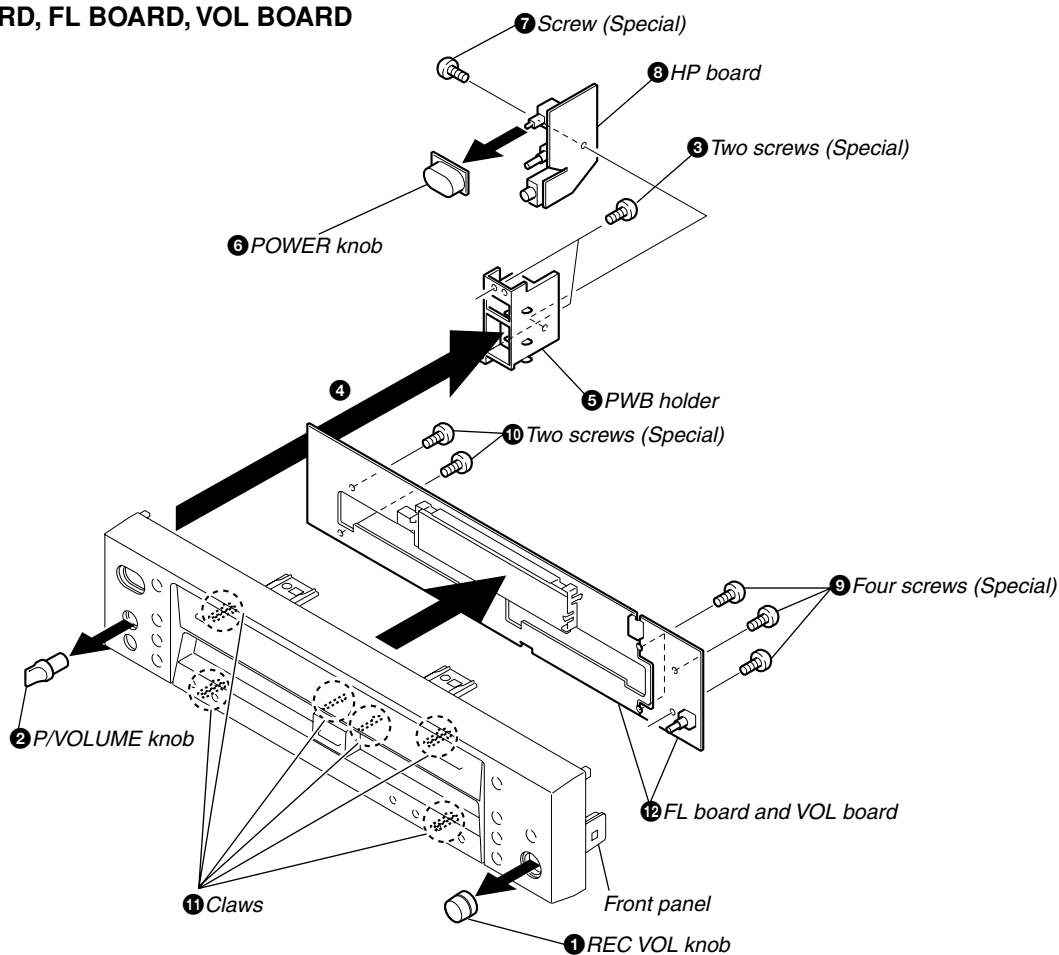
3-2. TRAY DOOR, FRONT PANEL ASSY

Note: After No. ② removal, remove in the state power turns off.

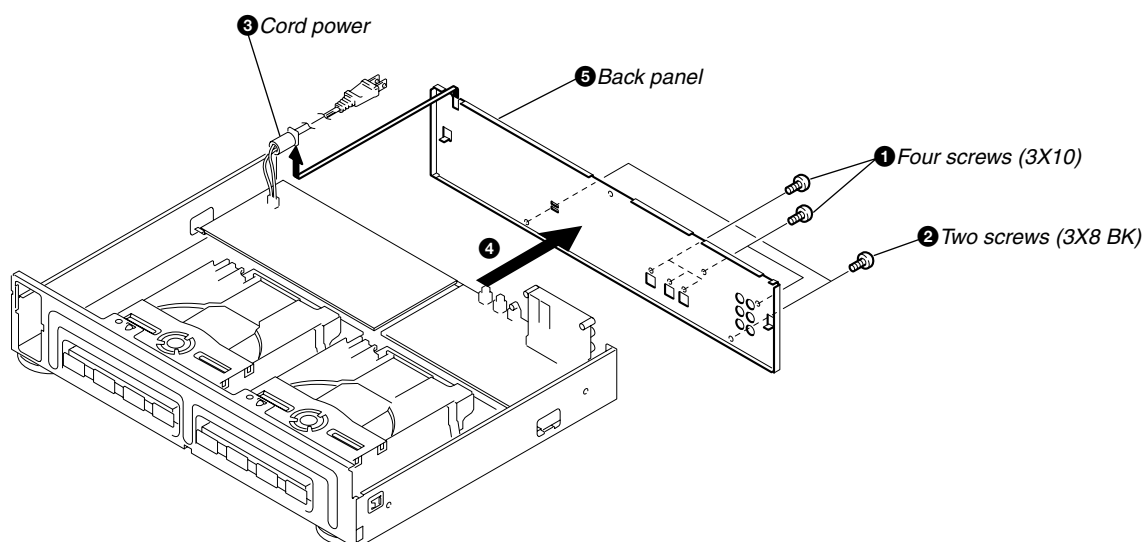
- ① Turn power on by pressing POWER button in the draw ① direction and press OPEN/CLOSE button in the draw ② to open the tray.
Then remove the tray door in the draw ③ direction.
(In the case of DECK B, remove it in the same manner.)



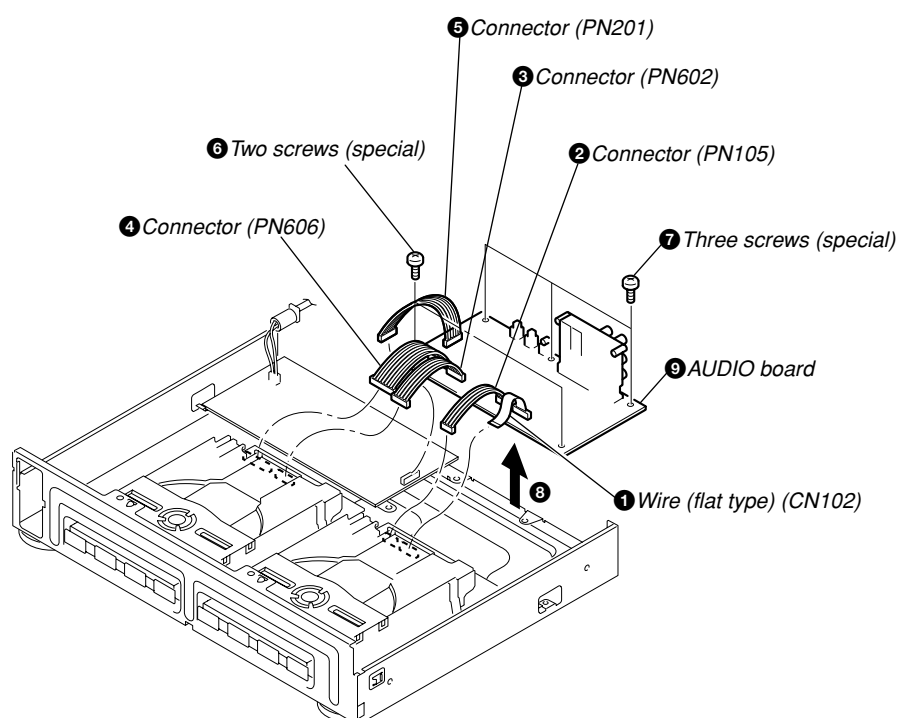
3-3. HP BOARD, FL BOARD, VOL BOARD



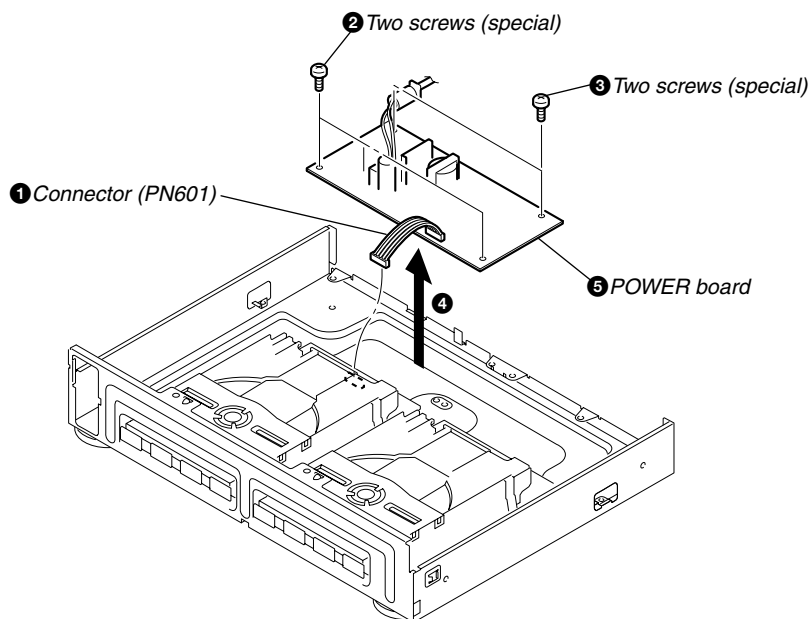
3-4. BACK PANEL



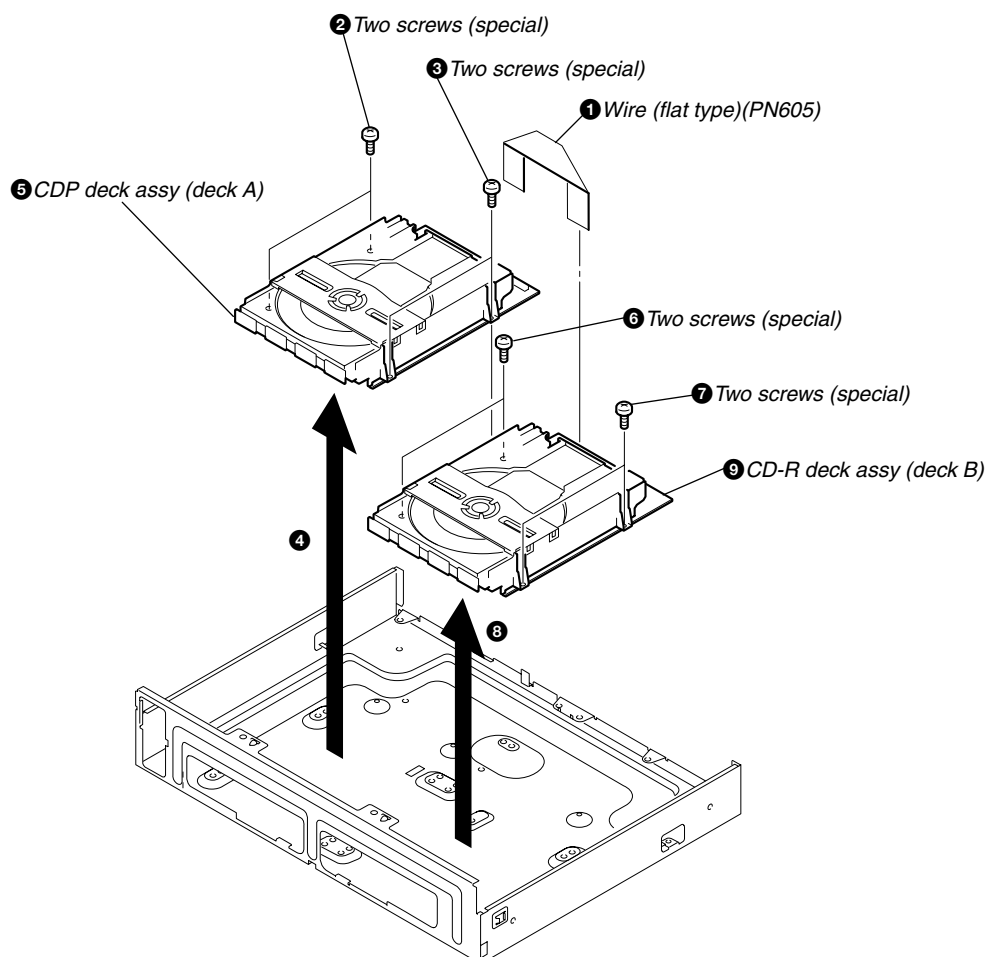
3-5. AUDIO BOARD



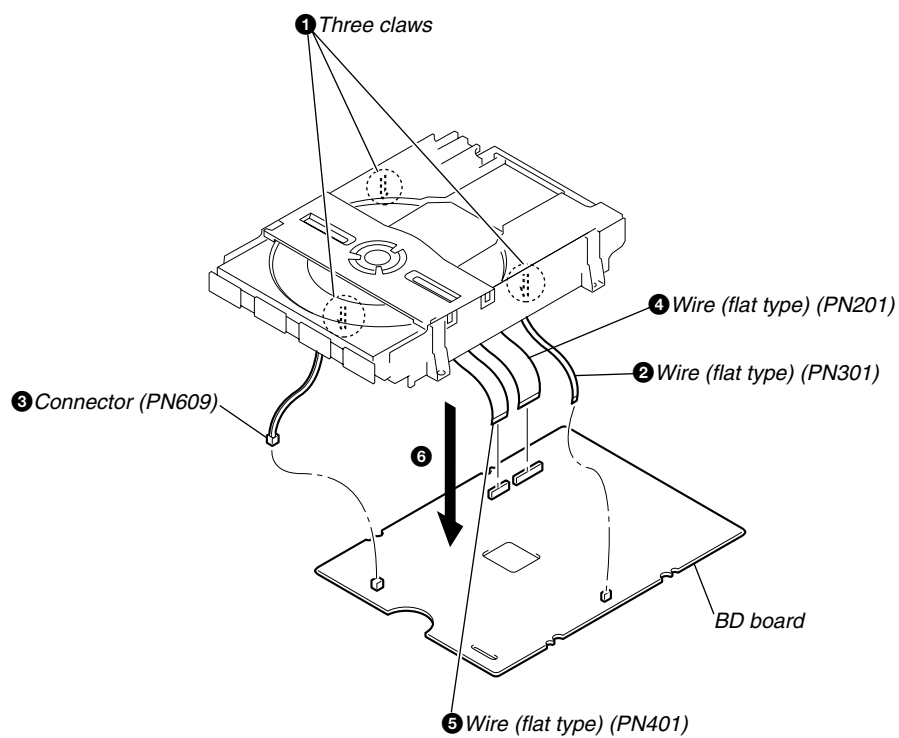
3-6. POWER BOARD



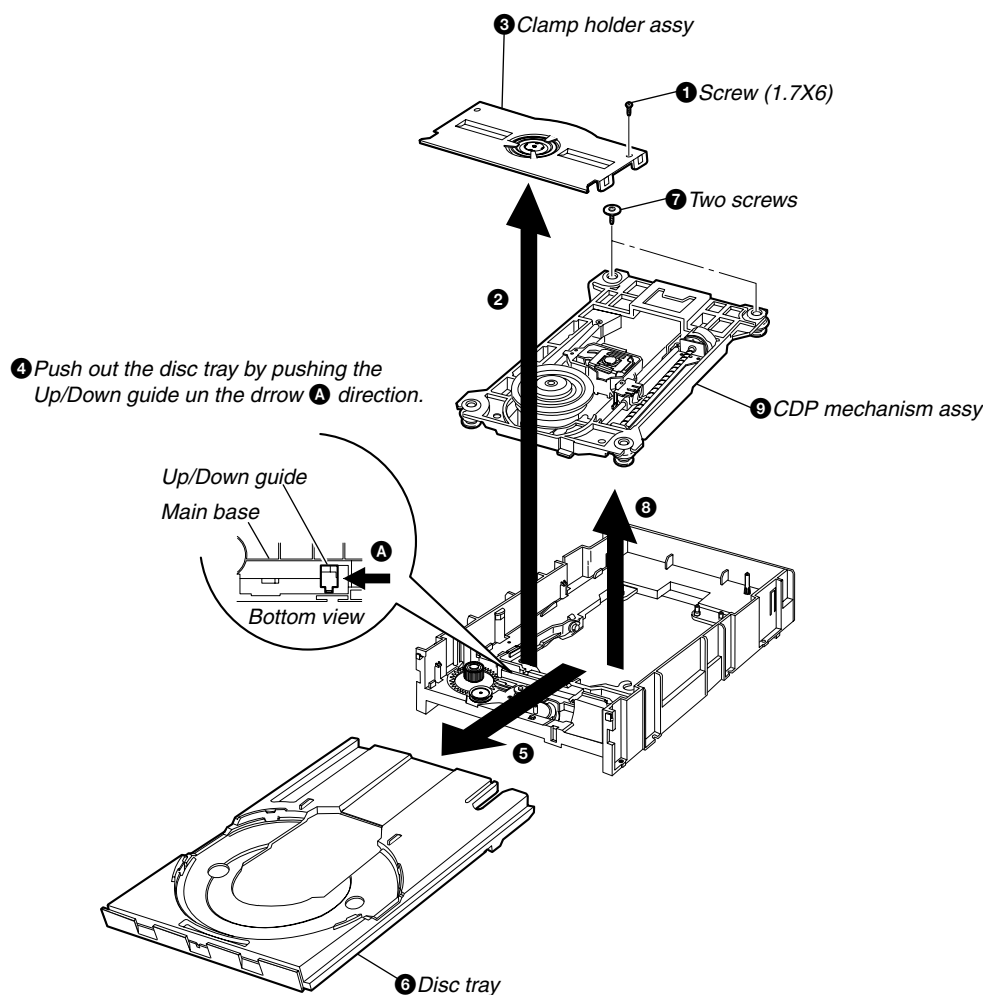
3-7. CDP DECK ASSY (DECK A), CD-R DECK ASSY (DECK B)



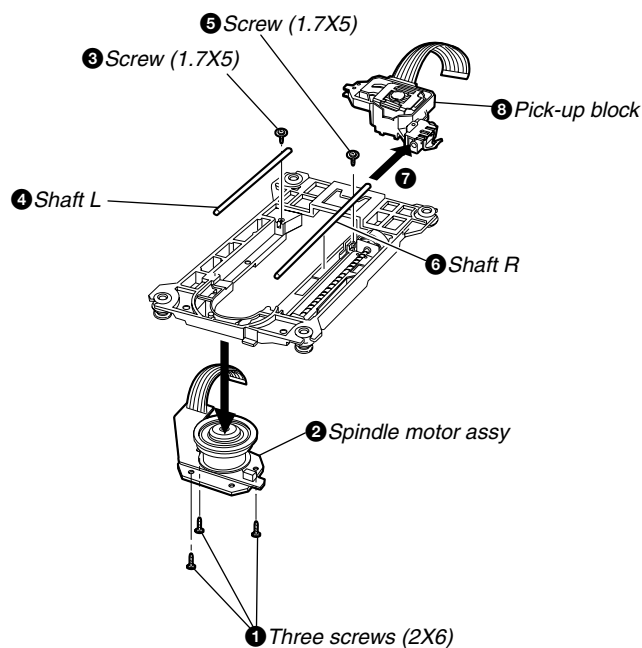
3-8. BD BOARD (DECK A)



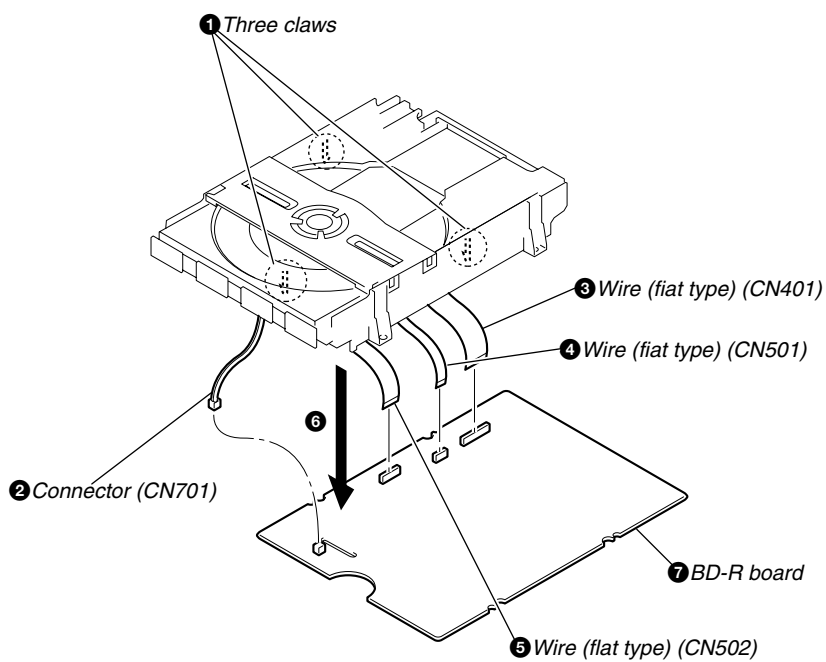
3-9. CDP MECHANISM ASSY (DECK A)



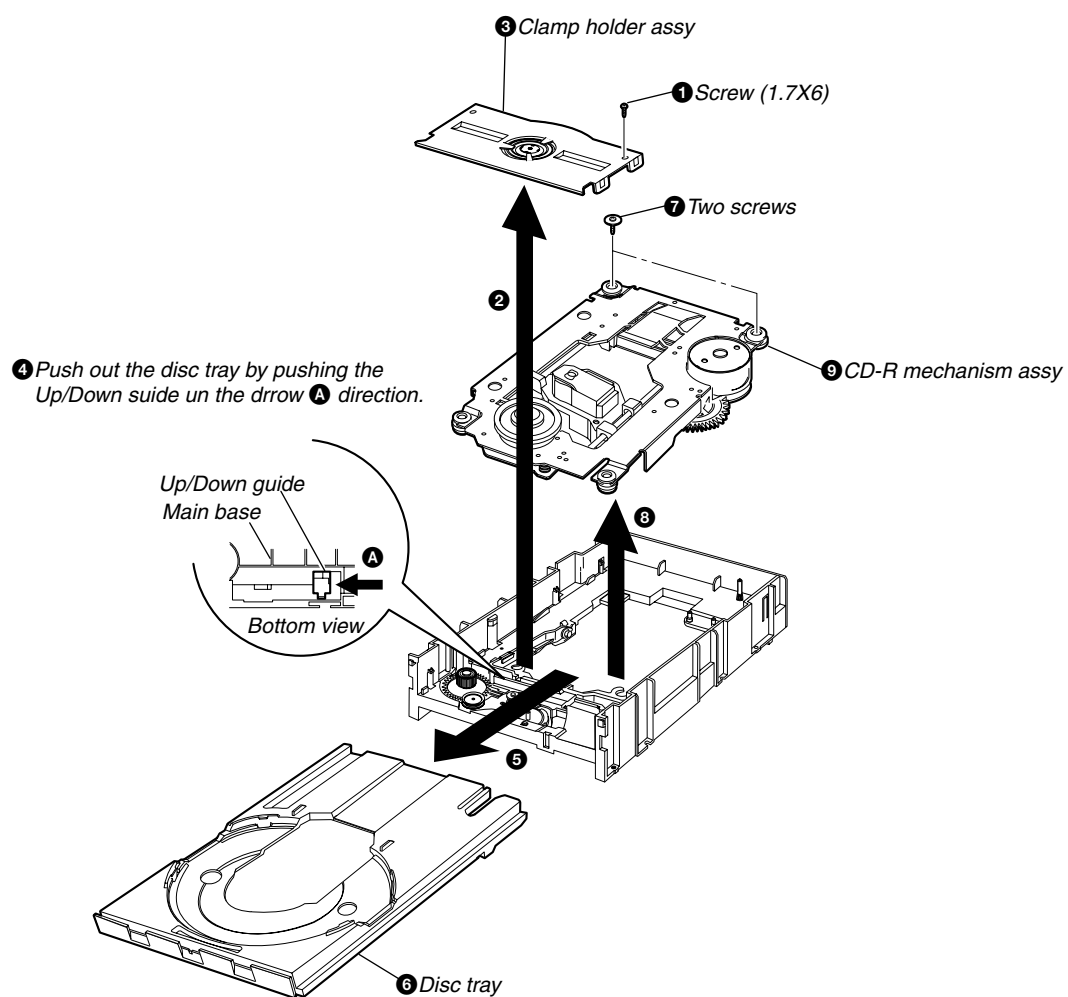
3-10. SPINDLE MOTOR ASSY, PICK-UP BLOCK (DECK A)



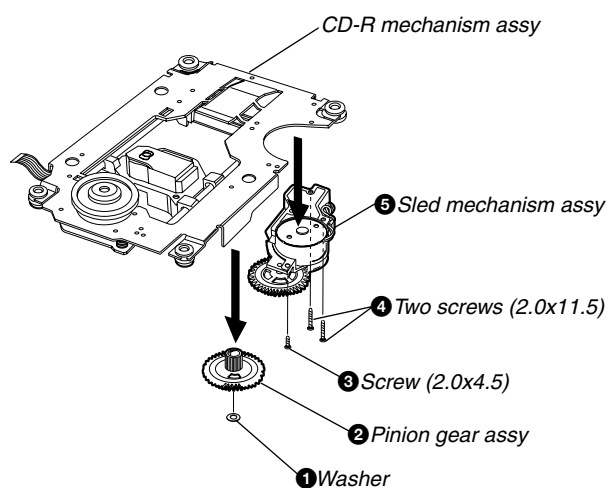
3-11. BD-R BOARD (DECK B)



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



3-13. SLED MECHANISM ASSY



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 Ver. 5.41

(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)

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. IC702 (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-231C cable between the test connector (PN201) on CD-R of RCD-W1 and COM port on PC.
(Check SW501 on the PC connection jig to "D" side.)
2. Turn power on RCD-W1.
3. Execute Dragon.exe on Windows.
(Two files Dragon.exe and dragon.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.

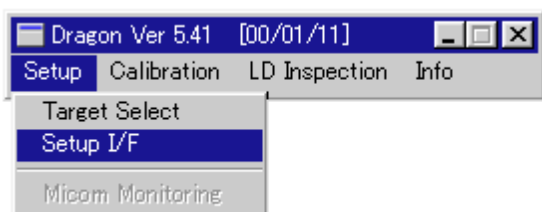


Fig 1 : Dragon menu and setup menu windows

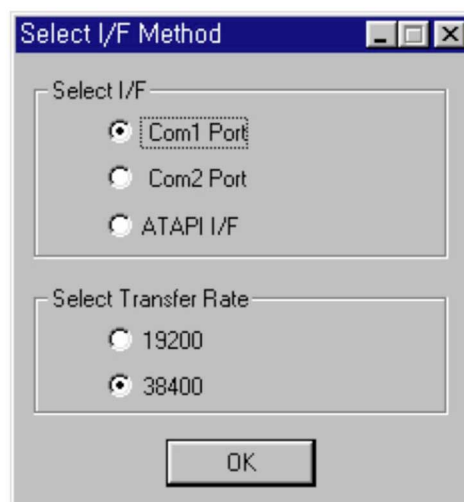


Fig 2 : Select I/F method window

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

This routine is for checking performances of the record/playback D-A converter (IC409), RFIC (IC413), the encoder/decoder IC (IC401), CPLD (IC601), the optical pick-up block (KRS-220C), the microcomputer(IC701) 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

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

$10 < \text{VRDC_LEVEL} < 20000$

$880 < \text{VRDC_FPD} < 1320$

$2000 < \text{VWDC1_LEVEL} < 25000$

$8640 < \text{VWDC1_FPD} < 12960$

$10 < \text{VWDC2-1_FPD} < 9500$

$2000 < \text{VWDC2-2_FPD} < 16000$

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.

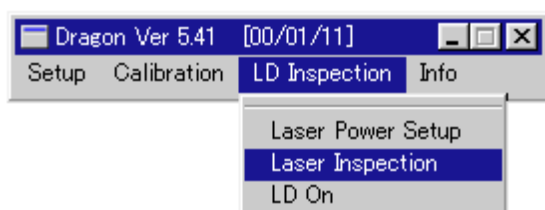


Fig 3 : LD inspection menu windows

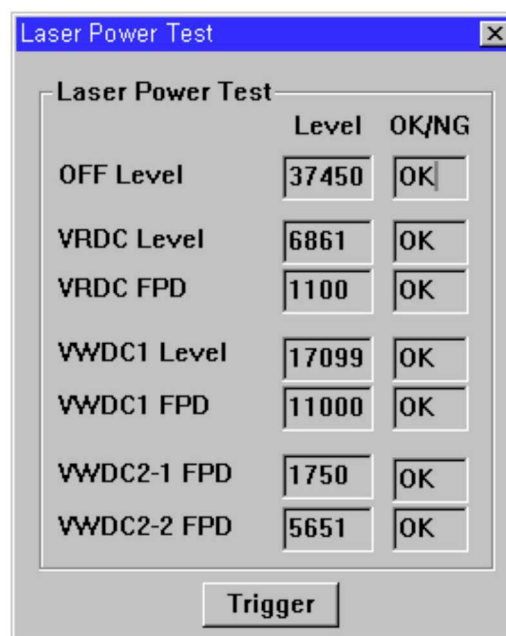


Fig 4 : Laser power test window

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<126
- VWDC2 Offset<35

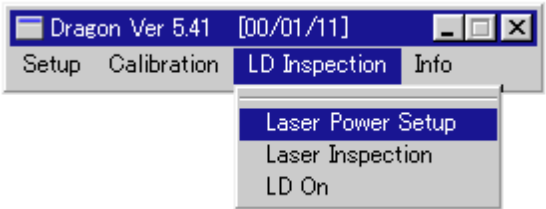


Fig 5 : LD inspection menu windows

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.

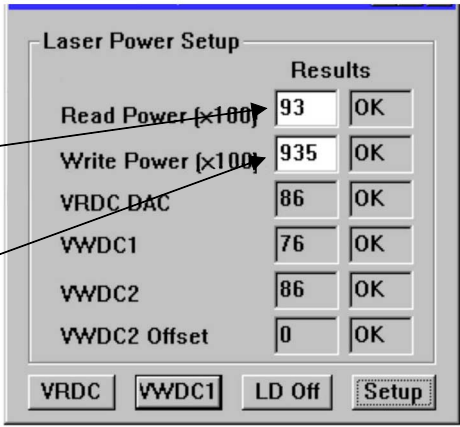


Fig 6 : Laser power setup window

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: 50-126
 VWDC2 Offset: 0-35
4. Click X to close “Read Calibration Results” window.

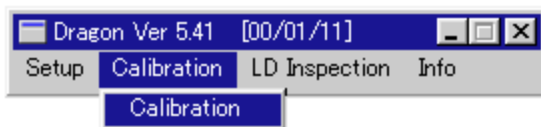


Fig 7 : Calibration menu windows

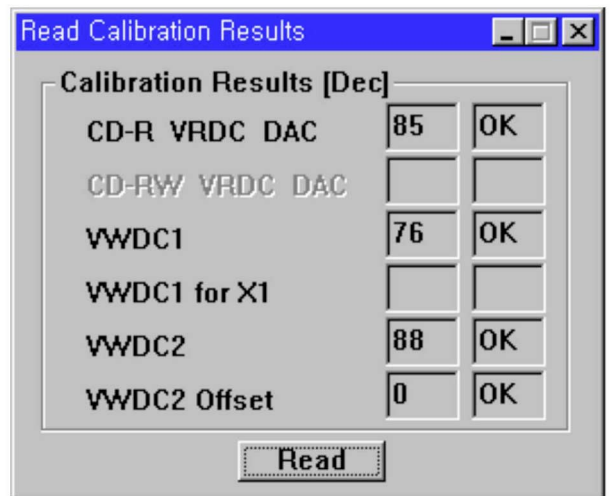


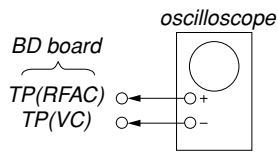
Fig 8 : Read calibration results window

SERVO Check

CD SECTION

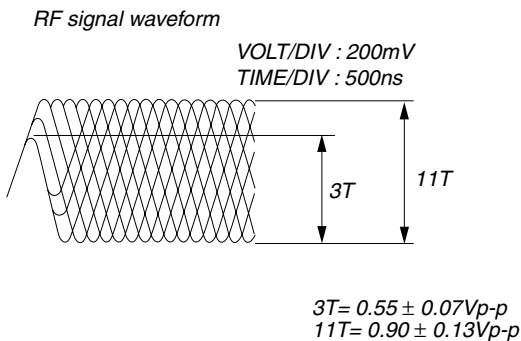
- Note :
- 1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
 - 2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
 - 3. Use an oscilloscope with more than 10MΩ impedance.
 - 4. Clean the object lens by an applicator with neutral detergent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

RF Level Check

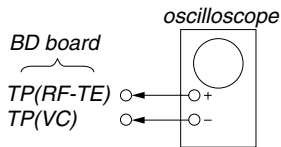


- Procedure :
- 1. Connect oscilloscope to TP (RFAC) and TP (VC).
 - 2. Turned Power switch on.
 - 3. Load a disc (YEDS-18) and playback.
 - 4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

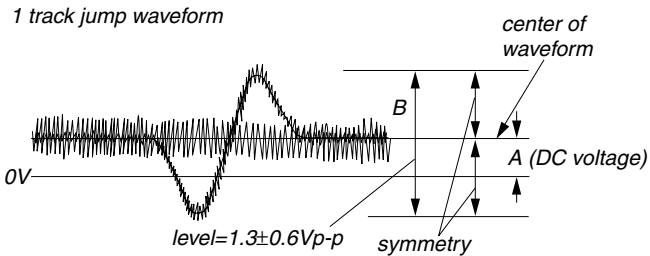
Note : Clear RF signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.



E-F Balance (1 Track jump) Check



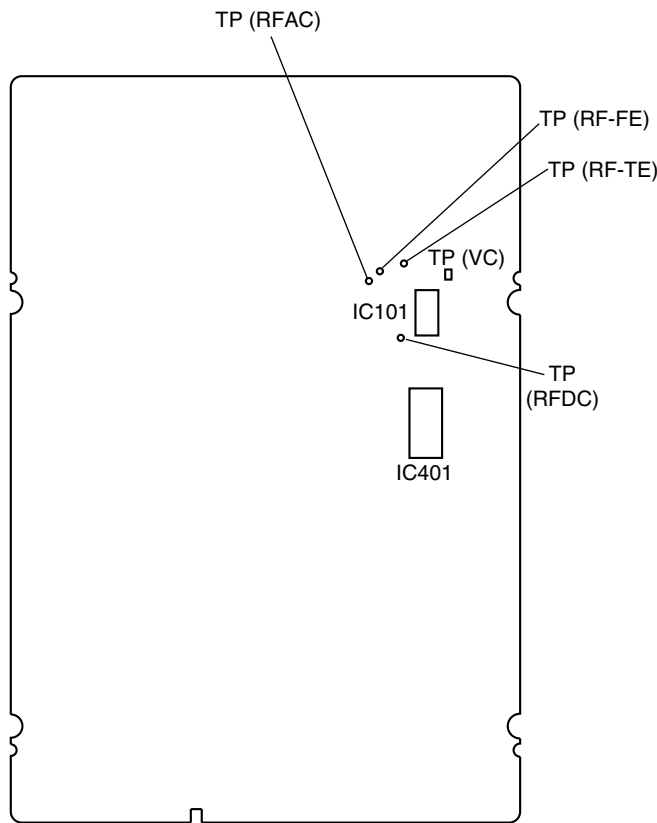
- Procedure :
- 1. Connect oscilloscope to TP (RF-TE) and TP (VC).
 - 2. Turned Power switch on.
 - 3. Load a disc (YEDS-18) and playback the number five track.
 - 4. Press the [1] button. (Becomes the 1 track jump mode.)
 - 5. Confirm that the level B and A (DC voltage) on the oscilloscope waveform.



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

Adjustment Location:

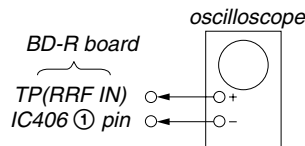
[BD BOARD] (Conductor Side)



CD-R SECTION

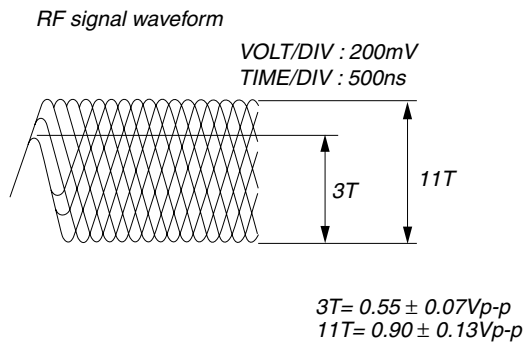
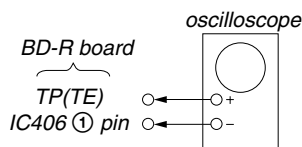
Note :

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 10M Ω 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.

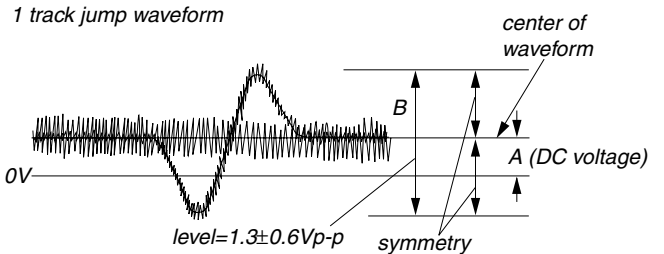
RF Level Check**Procedure :**

1. Connect oscilloscope to TP (RRFIN) and IC406 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 “ $\diamond$ ” can be clearly distinguished at the center of the waveform.

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

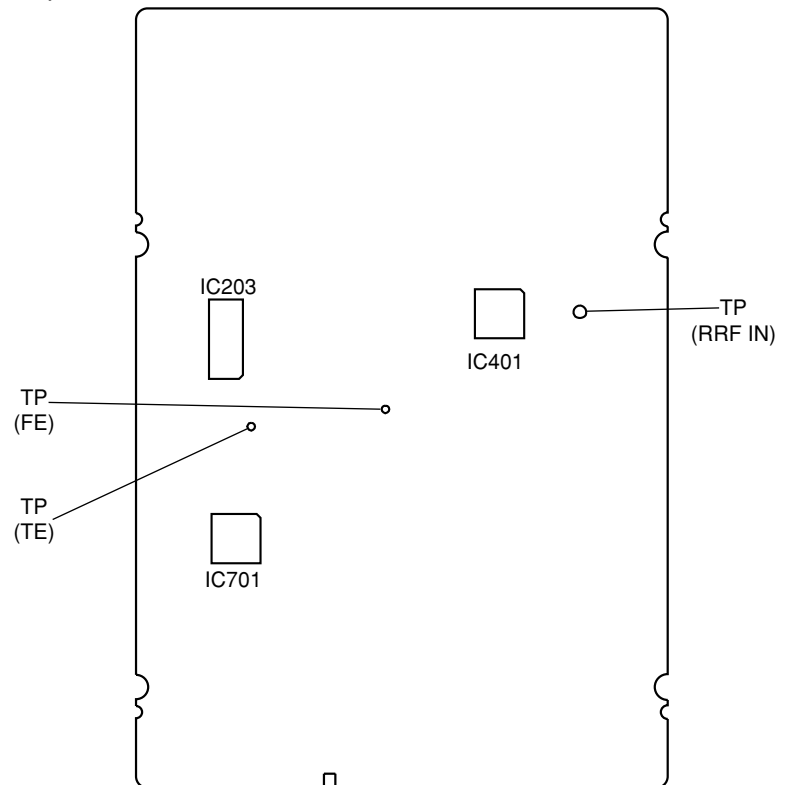
1. Connect oscilloscope to TP (TE) and IC406 ① Pin.
2. Turned Power switch on.
3. Load a disc (YEDS-18) and playback the number five track.
4. Press the button. (Becomes the 1 track jump mode.)
5. Confirm that the level B and A (DC voltage) on the oscilloscope waveform.



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

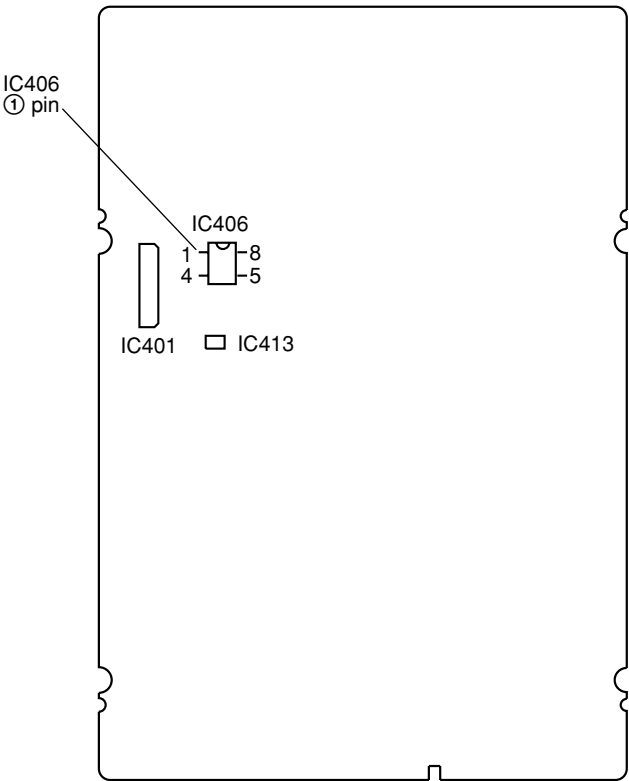
Adjustment Location:

[BD-R BOARD] (Conductor Side)



(See next page for the component side location.)

[BD-R BOARD] (Conponent Side)



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.

Note:

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 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

• Signal path.

- ⇒ : CD play
- ⇒⇒ : digital out
- ⇒⇒⇒ : CD REC

• Abbreviation

- CND : Canadian model.
- MX : Mexican model.

For printed wiring boards.

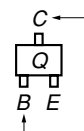
Note:

- : 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. |
| (Side B) | |
| Parts face side: | Parts on the parts face side seen from the parts face are indicated. |
| (Side A) | |

• Indication of transistor



These are omitted

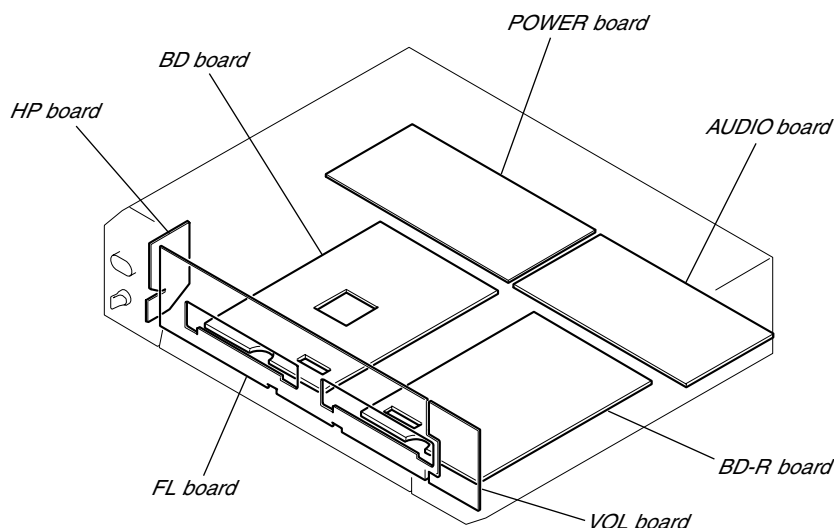


These are omitted

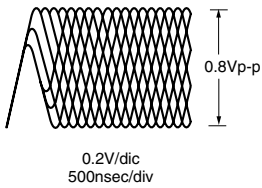
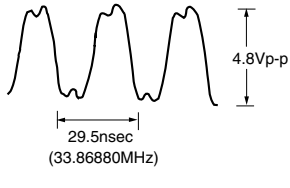
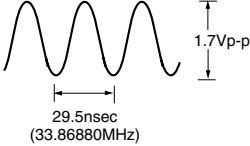
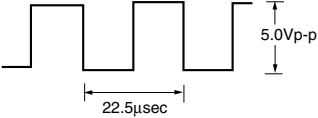
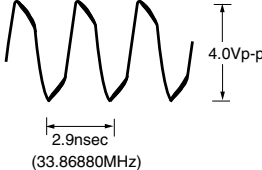
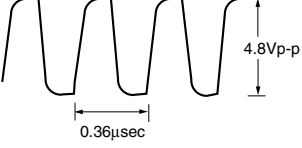
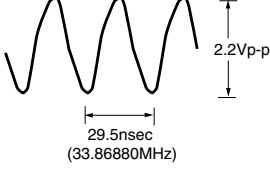
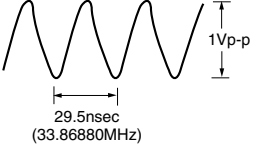
• Abbreviation

- CND : Canadian model.
- MX : Mexican model.

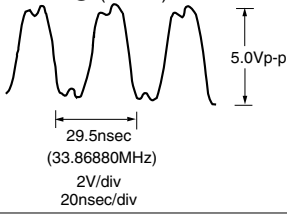
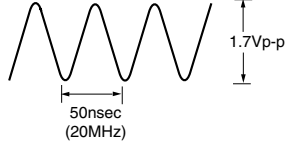
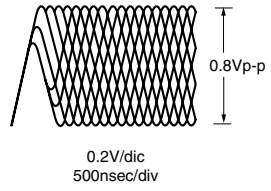
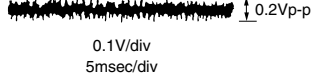
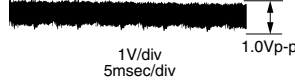
5-1. CIRCUIT BOARDS LOCATION



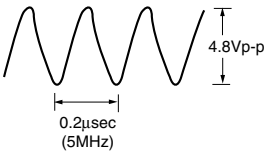
WAVEFORMS
– CDR SECTION –

① IC401 ⑧⑨ (RRFIN) PLAY MODE  0.8Vp-p 0.2V/div 500nsec/div	⑥ IC301 ⑦④ (CDP33M)  4.8Vp-p 29.5nsec (33.86880MHz) 2V/div 20nsec/div
② IC401 ⑥⑥ (FE) PLAY MODE  0.1Vp-p 0.2V/div 500nsec/div	⑦ IC701 ⑥⑥ (EXTAL)  1.7Vp-p 29.5nsec (33.86880MHz) 2V/div 20nsec/div
③ IC401 ⑤⑦ (TE) PLAY MODE  0.3Vp-p 0.2V/div 500nsec/div	⑧ IC306 ①② (ILRCK)  5.0Vp-p 22.5μsec
④ IC310 ④  4.0Vp-p 2.9nsec (33.86880MHz) 2V/div 20nsec/div	⑨ IC306 ①③ (ISCLK)  4.8Vp-p 0.36μsec
⑤ IC301 ⑥⑤ (CLK_IN)  2.2Vp-p 29.5nsec (33.86880MHz) 2V/div 20nsec/div	⑩ IC201 ①④⑨ (XIN)  1Vp-p 29.5nsec (33.86880MHz) 1V/div 20nsec/div

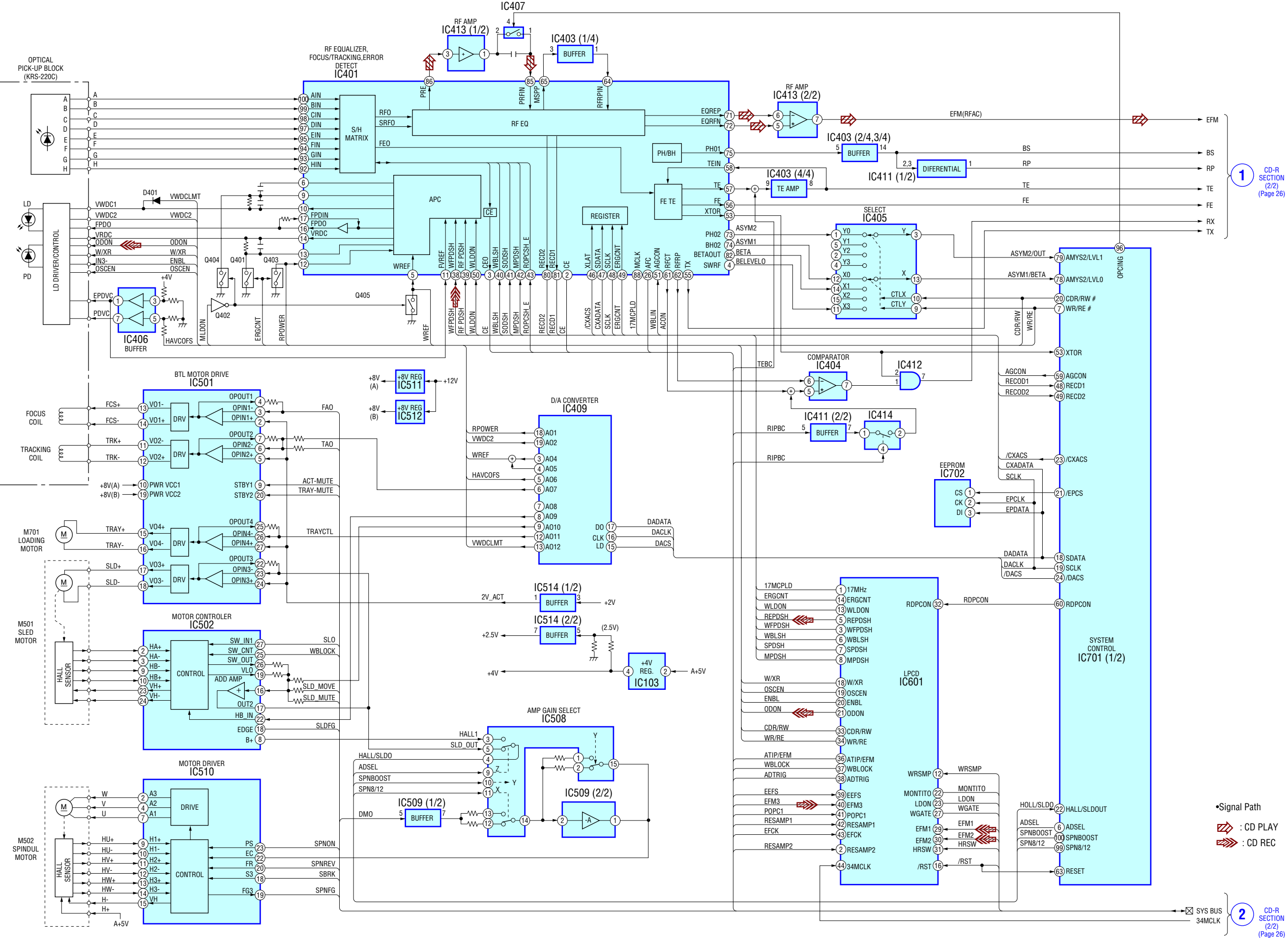
– CD SECTION –

① IC201 ⑧③ (XTLO)  5.0Vp-p 29.5nsec (33.86880MHz) 2V/div 20nsec/div
② IC501 ⑥⑥ (EXTAL)  1.7Vp-p 50nsec (20MHz) 2V/div 20nsec/div
③ IC101 ①⑤ (RFAC) PLAY MODE  0.8Vp-p 0.2V/div 500nsec/div
④ IC101 ①⑥ (FF) PLAY MODE  0.2Vp-p 0.1V/div 5msec/div
⑤ IC101 ①⑧ (TE) PLAY MODE  1.0Vp-p 1V/div 5msec/div

– PANEL SECTION –

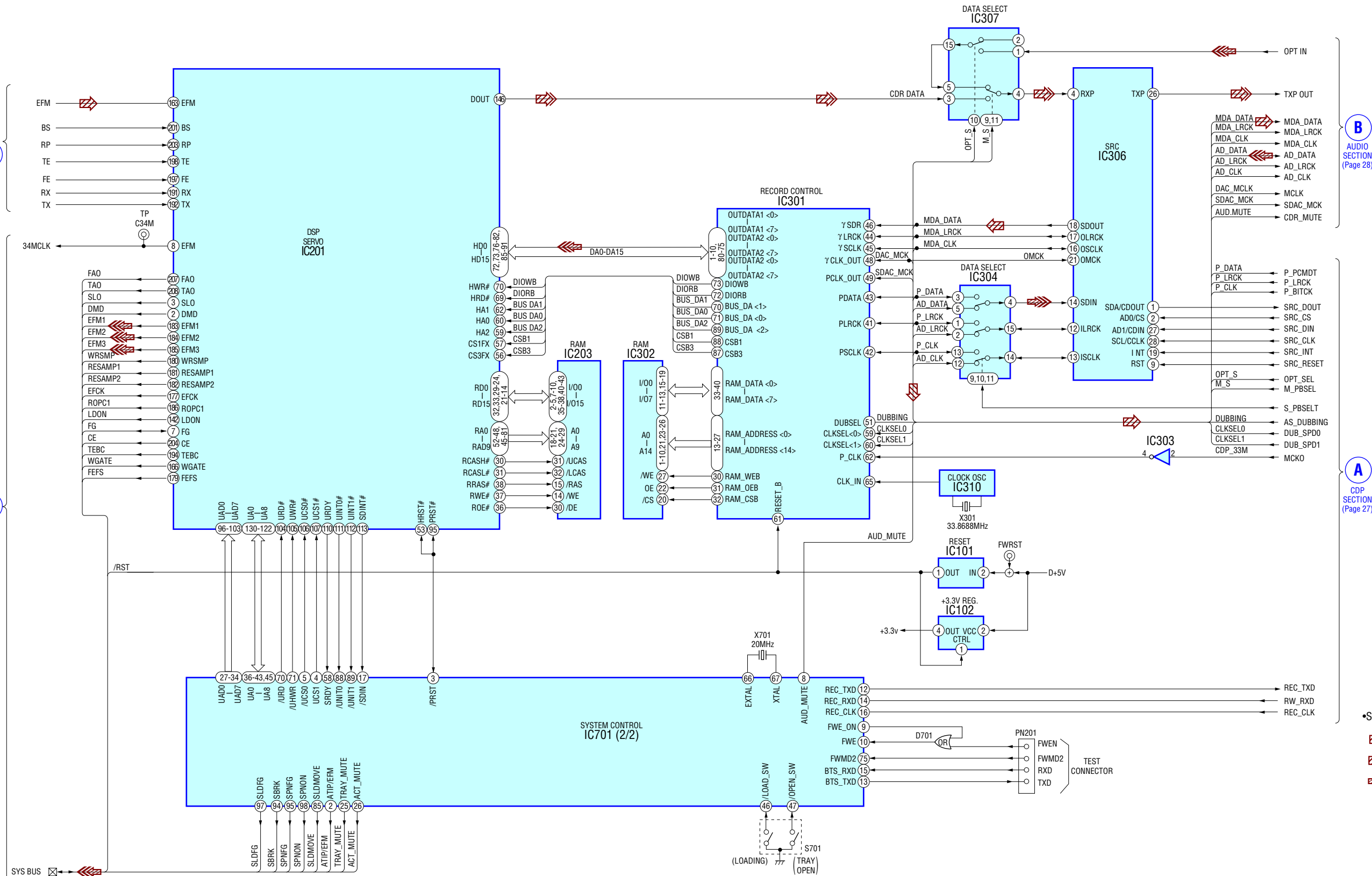
① IC801 ④ (X2)  4.8Vp-p 0.2μsec (5MHz) 5V/div 2μsec/div
--

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



1
CD-R
SECTION
(1/2)
(Page 25)

2
CD-R
SECTION
(1/2)
(Page 25)

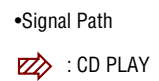


B
AUDIO
SECTION
(Page 28)

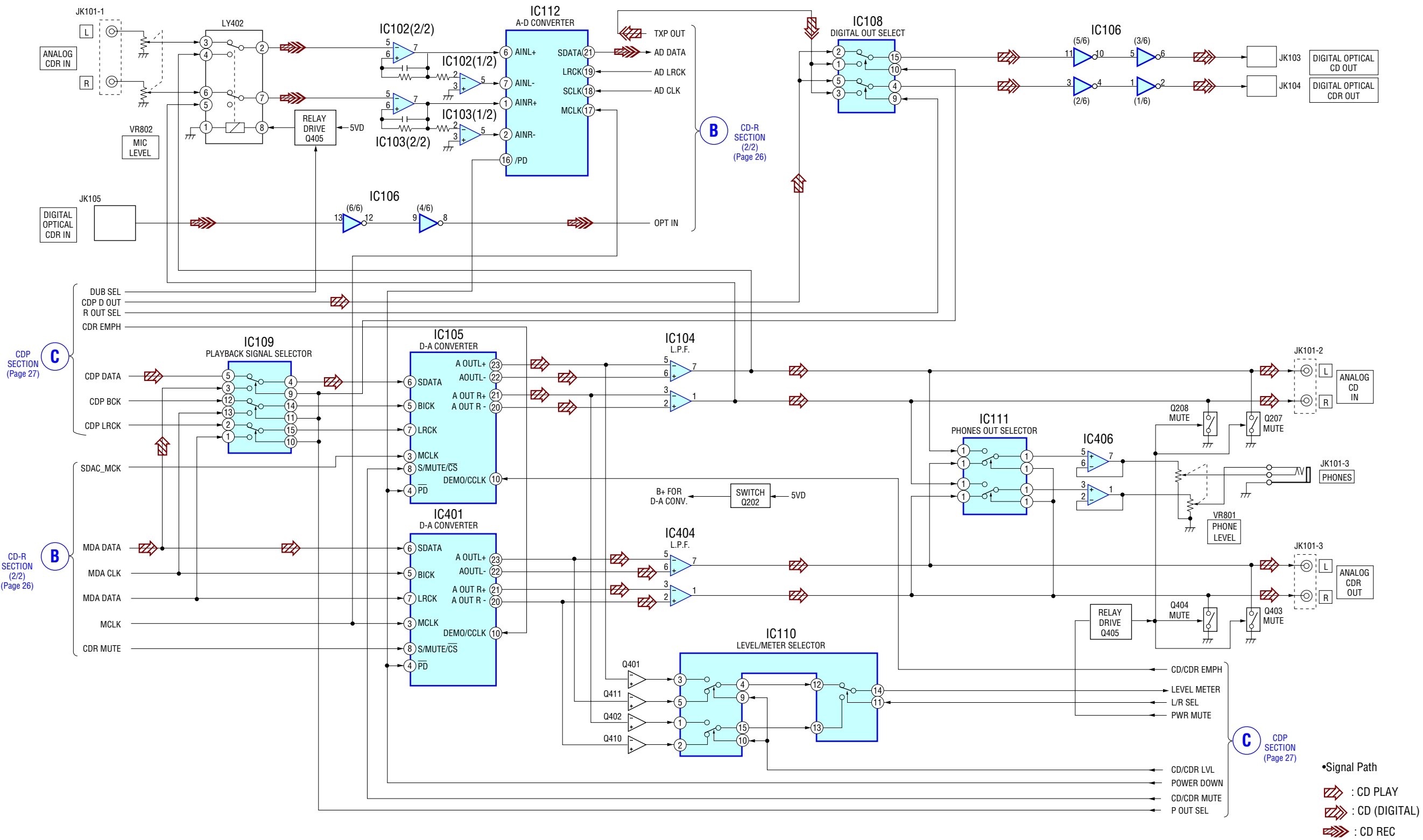
A
CDP
SECTION
(Page 27)

•Signal Path
CD PLAY
CD (DIGITAL)
CD REC

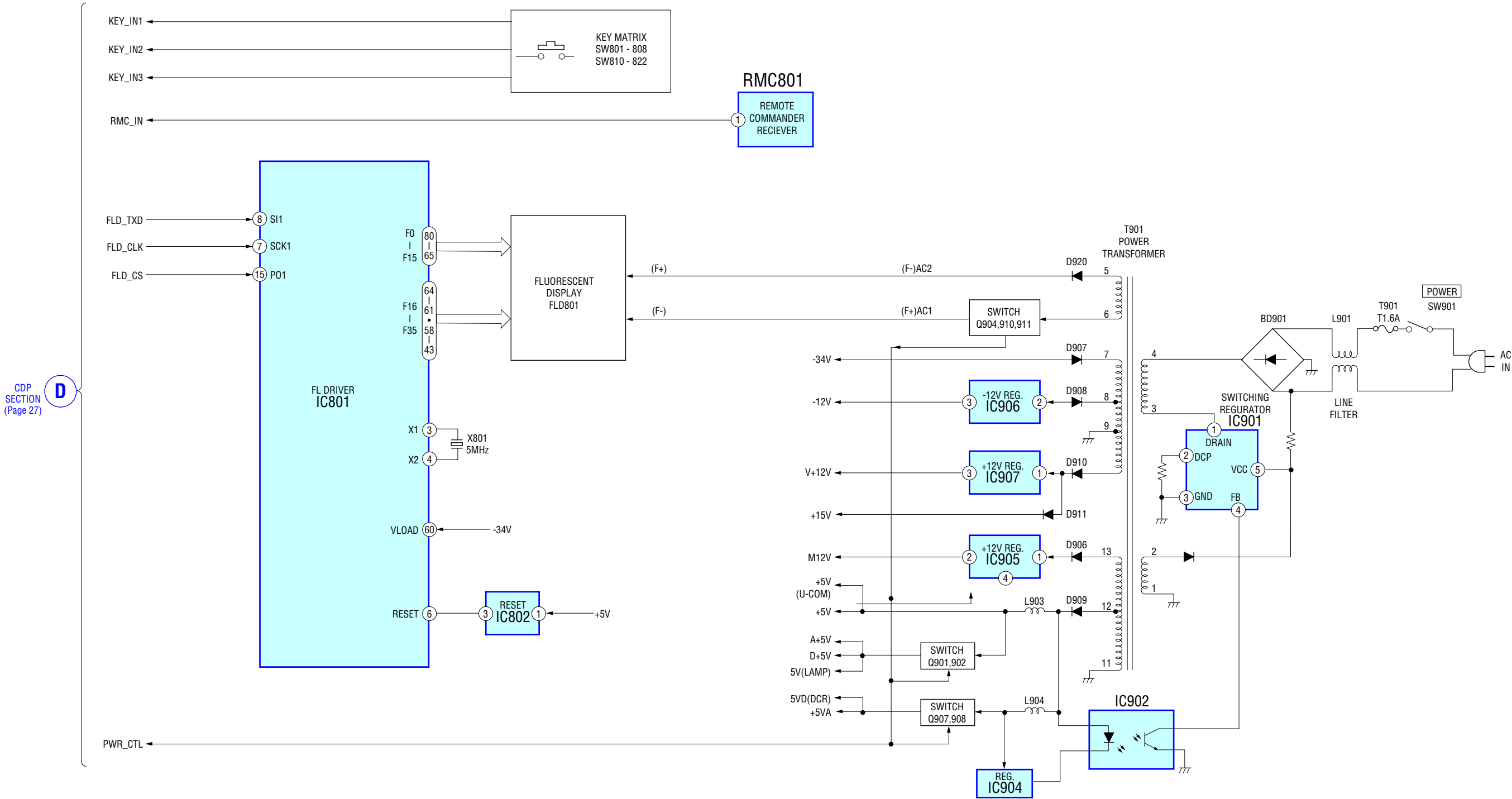
A CD-R
SECTION
(2/2)
(Page 26)



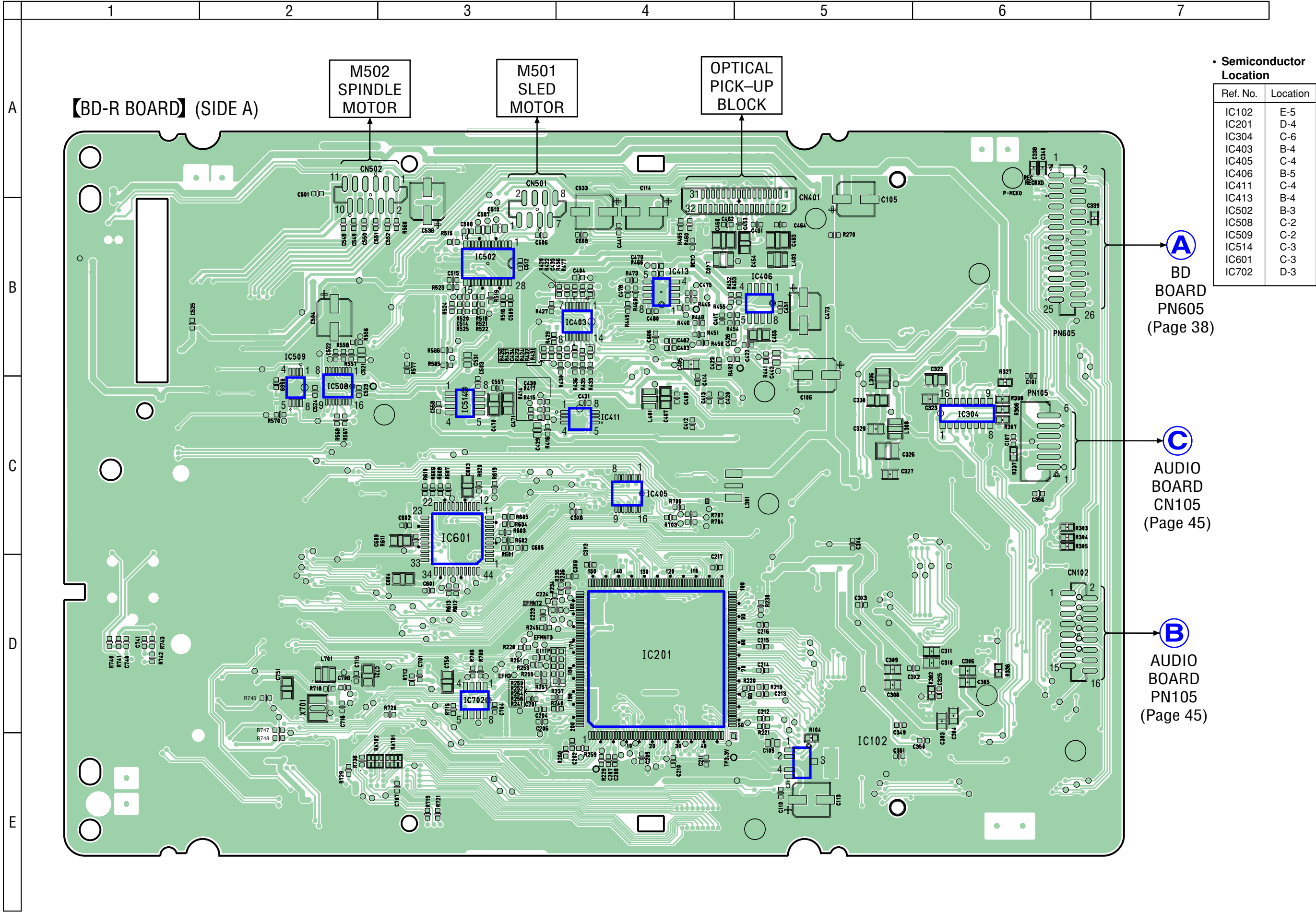
– AUDIO SECTION –

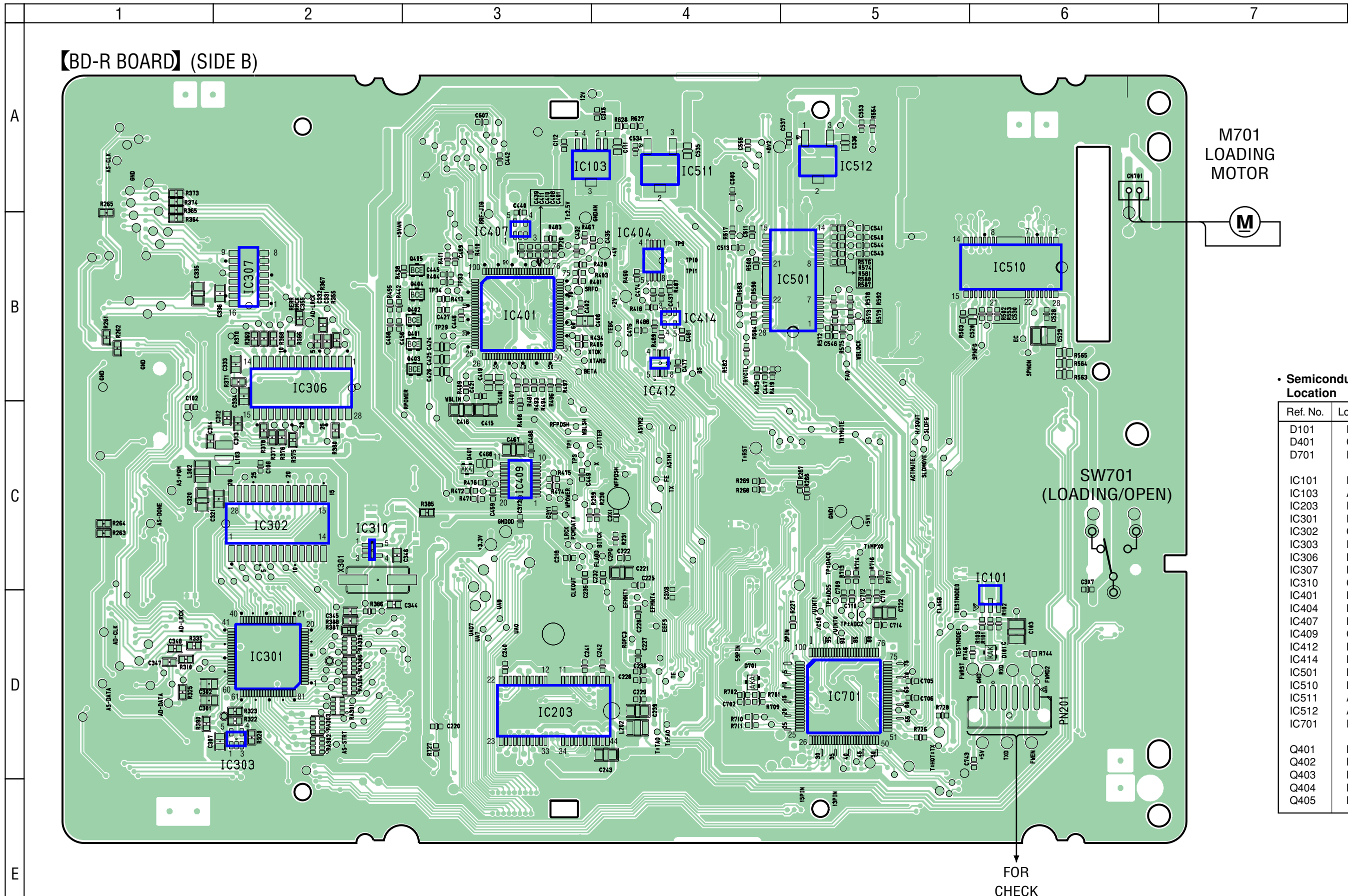


– POWER SECTION –



5-3.PRINTED WIRING BOARD -CD-R SECTION- • See page 23 for Circuit Board location.

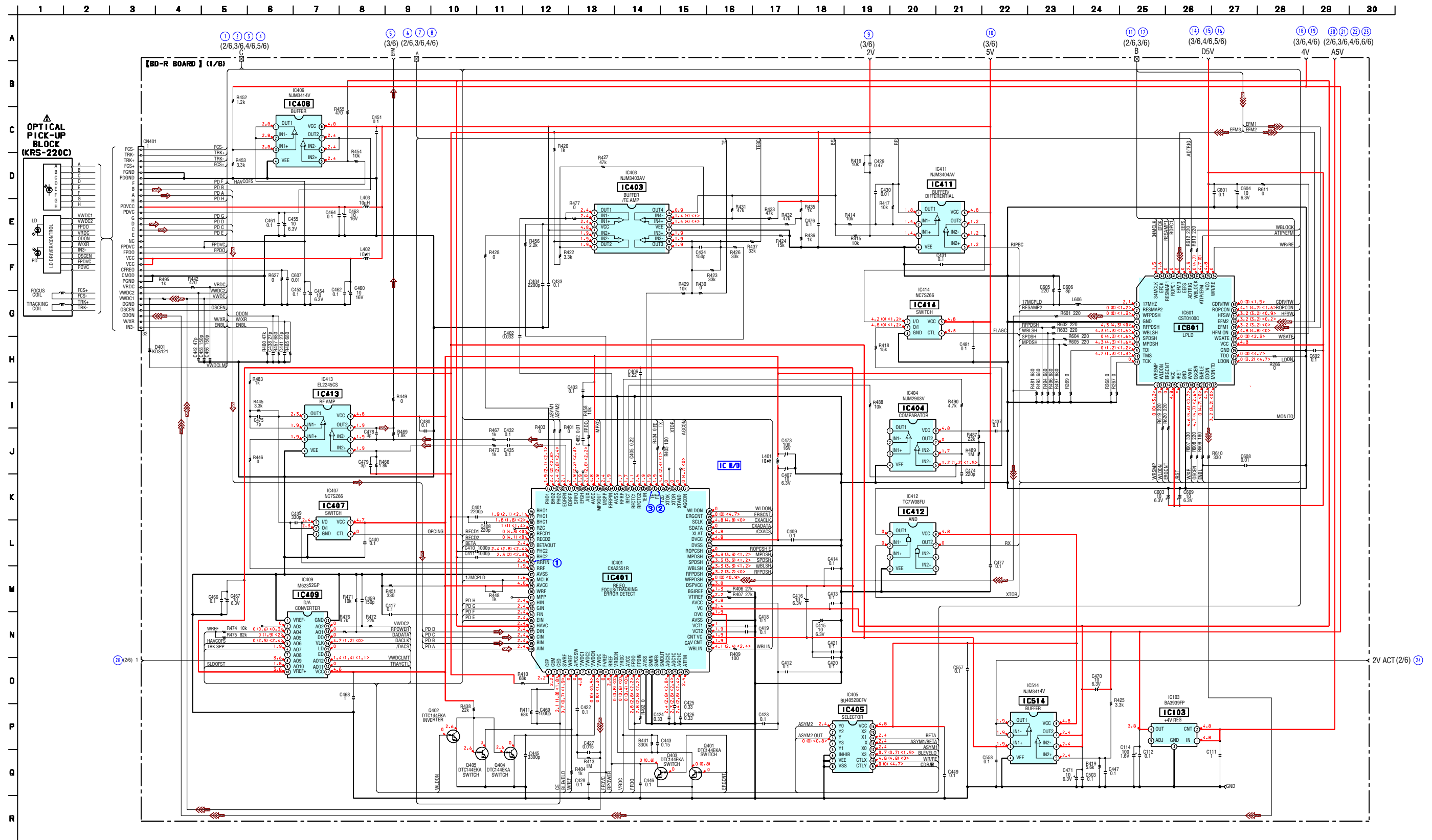




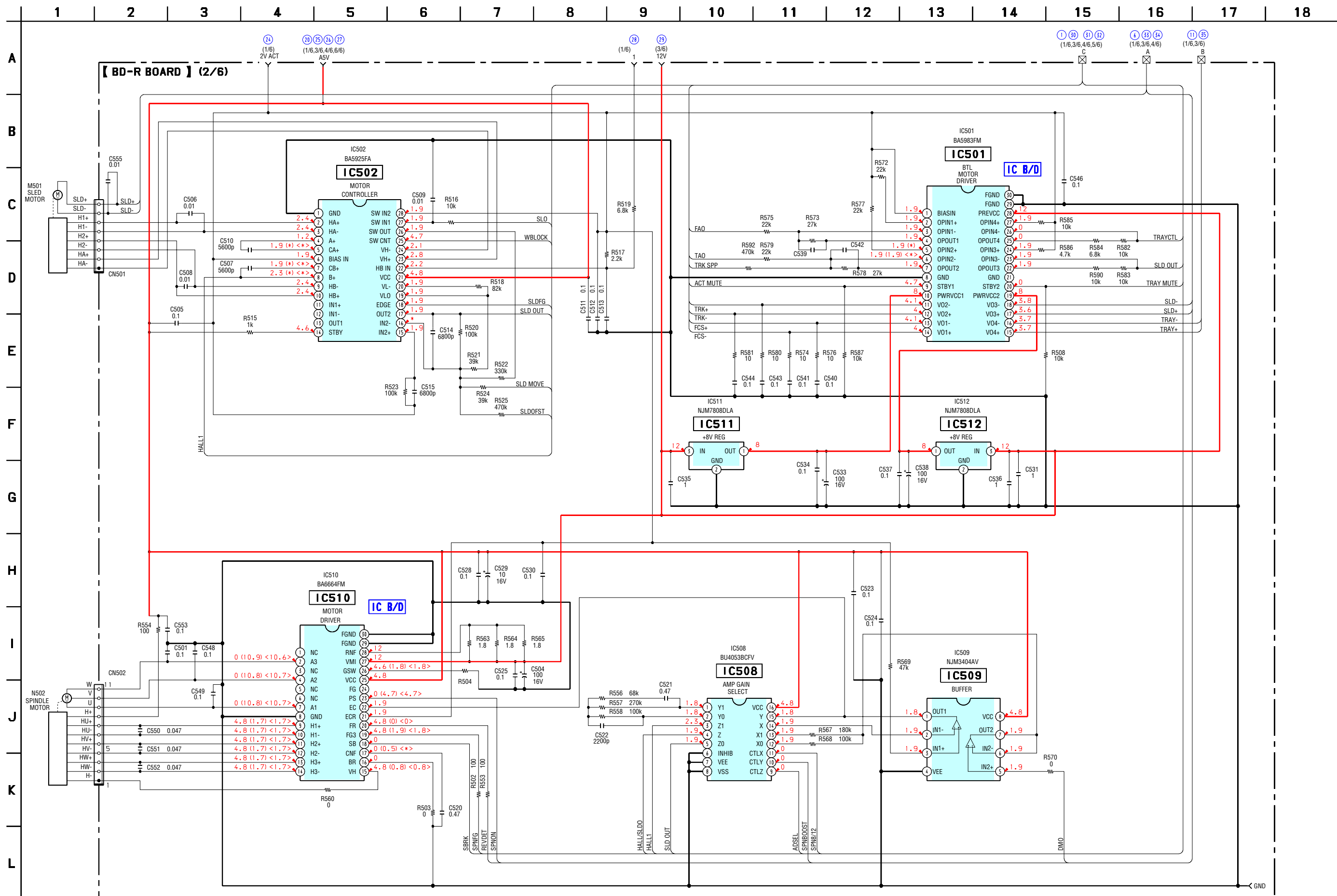
• Semiconductor
Location

Ref. No.	Location
D101	D-6
D401	C-3
D701	D-4
IC101	D-6
IC103	A-3
IC203	D-3
IC301	D-2
IC302	C-2
IC303	D-2
IC306	B-2
IC307	B-2
IC310	C-2
IC401	B-3
IC404	B-4
IC407	B-3
IC409	C-3
IC412	B-4
IC414	B-4
IC501	B-5
IC510	B-6
IC511	A-4
IC512	A-5
IC701	D-5
Q401	B-3
Q402	B-3
Q403	B-3
Q404	B-3
Q405	B-3

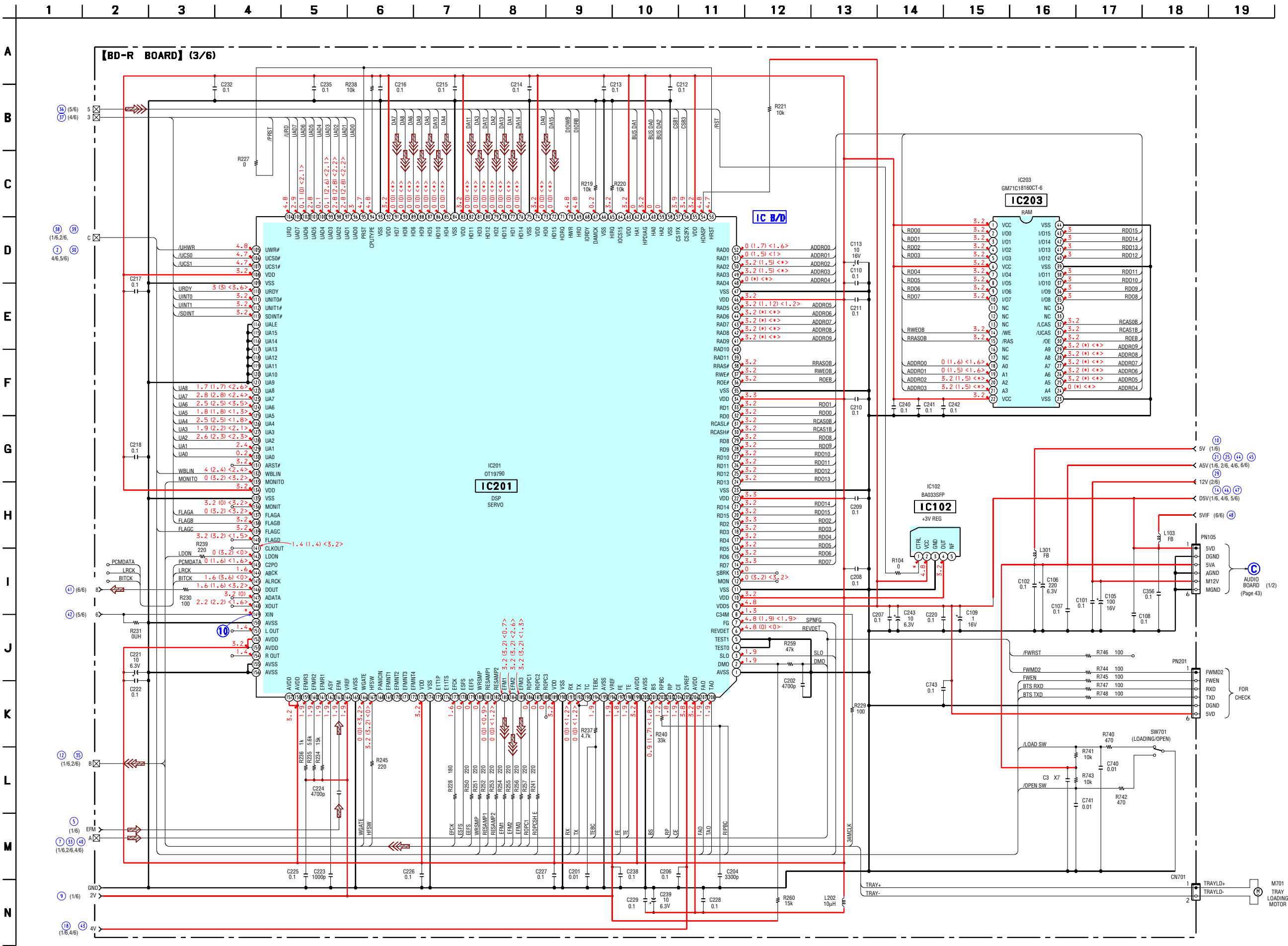
5-4.SCHEMATIC DIAGRAM -CD-R SECTION (1/6)- • See page 24 for Waveforms. • See page 57 for IC Block Diagrams.



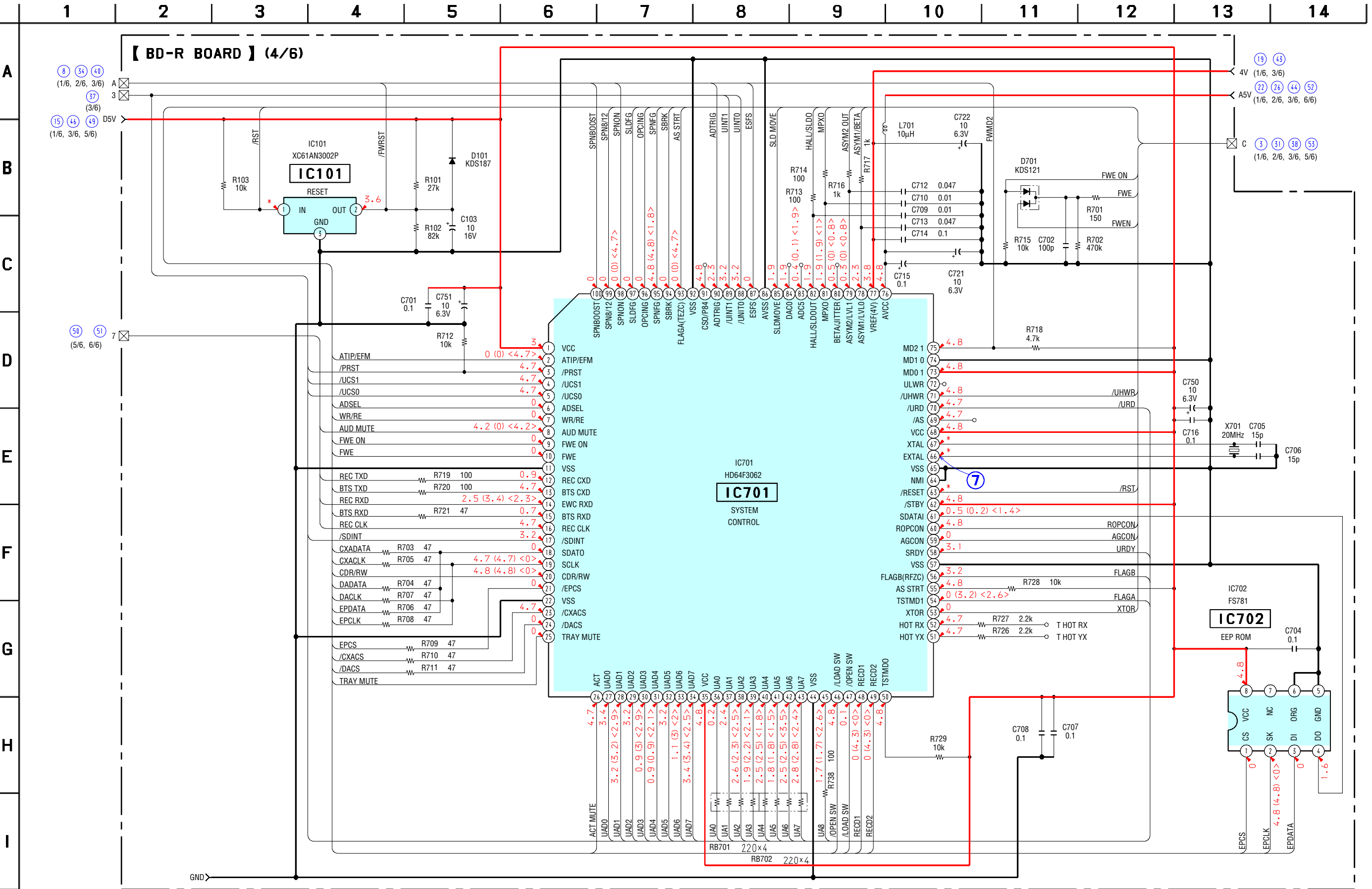
5-5.SCHEMATIC DIAGRAM -CD-R SECTION (2/6)- • See page 56 for IC Block Diagrams.



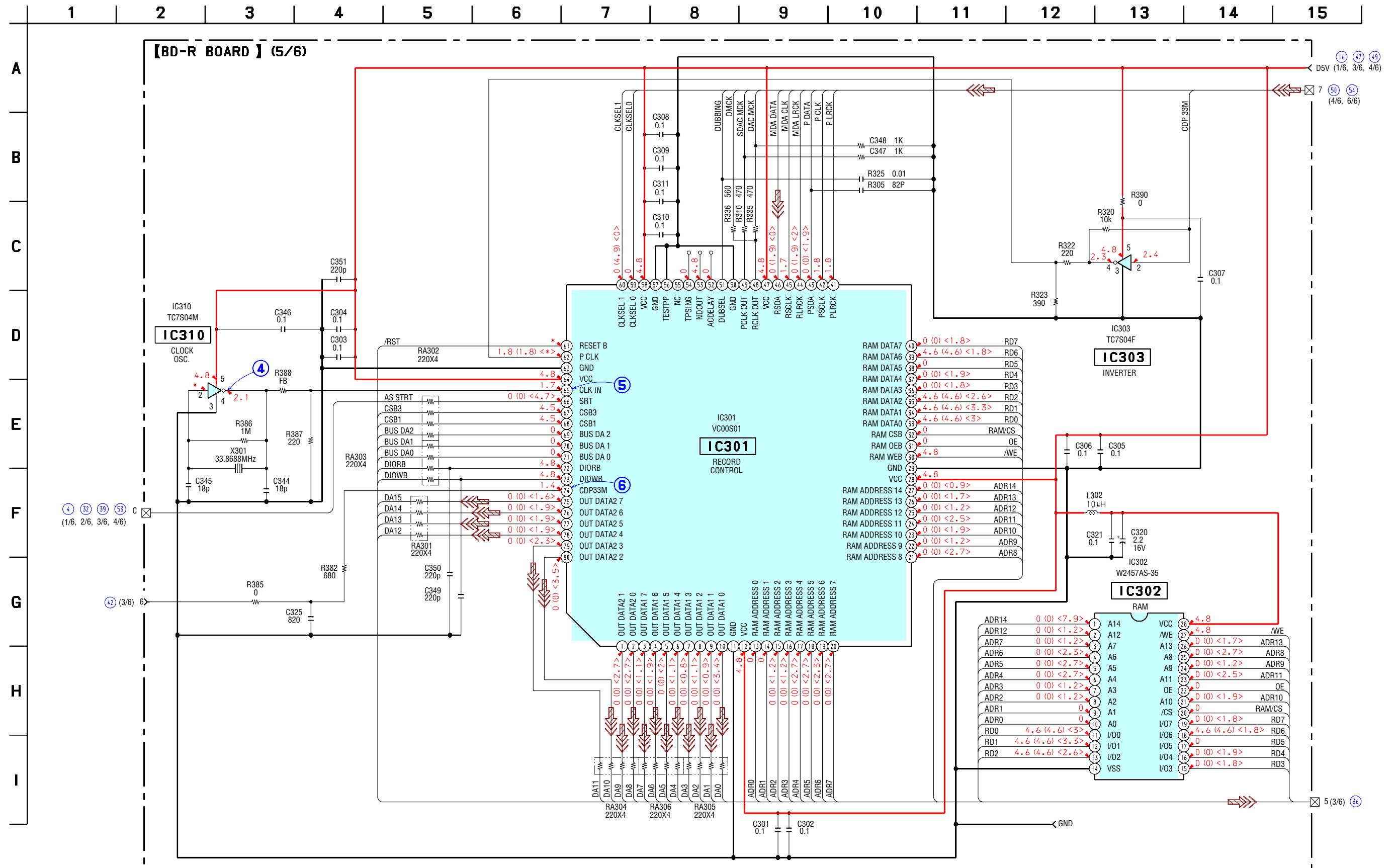
5-6.SCHEMATIC DIAGRAM -CD-R SECTION (3/6)- • See page 24 for Waveforms. • See page 55 for IC Block Diagrams.



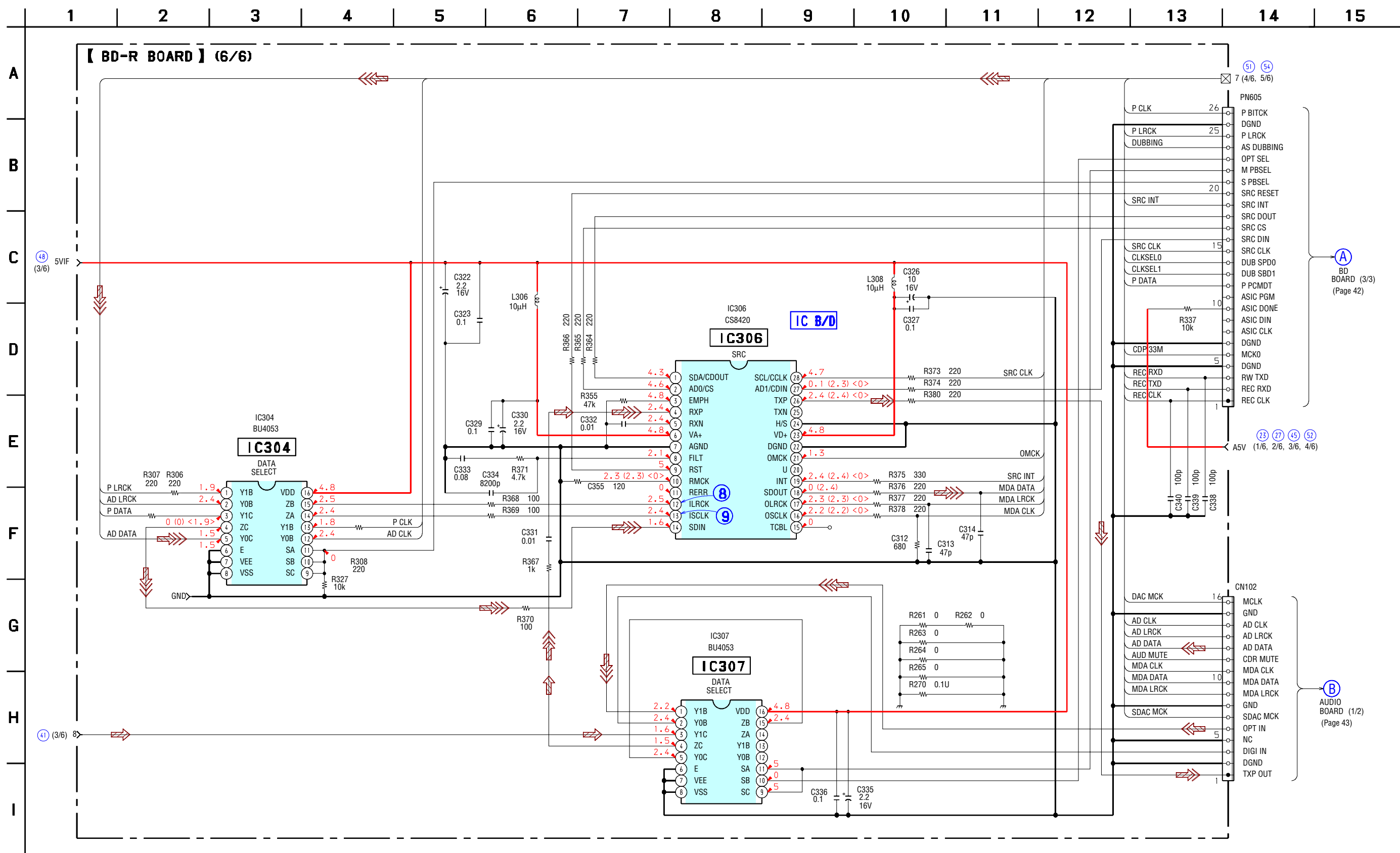
5-7.SCHEMATIC DIAGRAM -CD-R SECTION (4/6)- • See page 24 for Waveforms. • See page 51 for IC Pin Function Description.



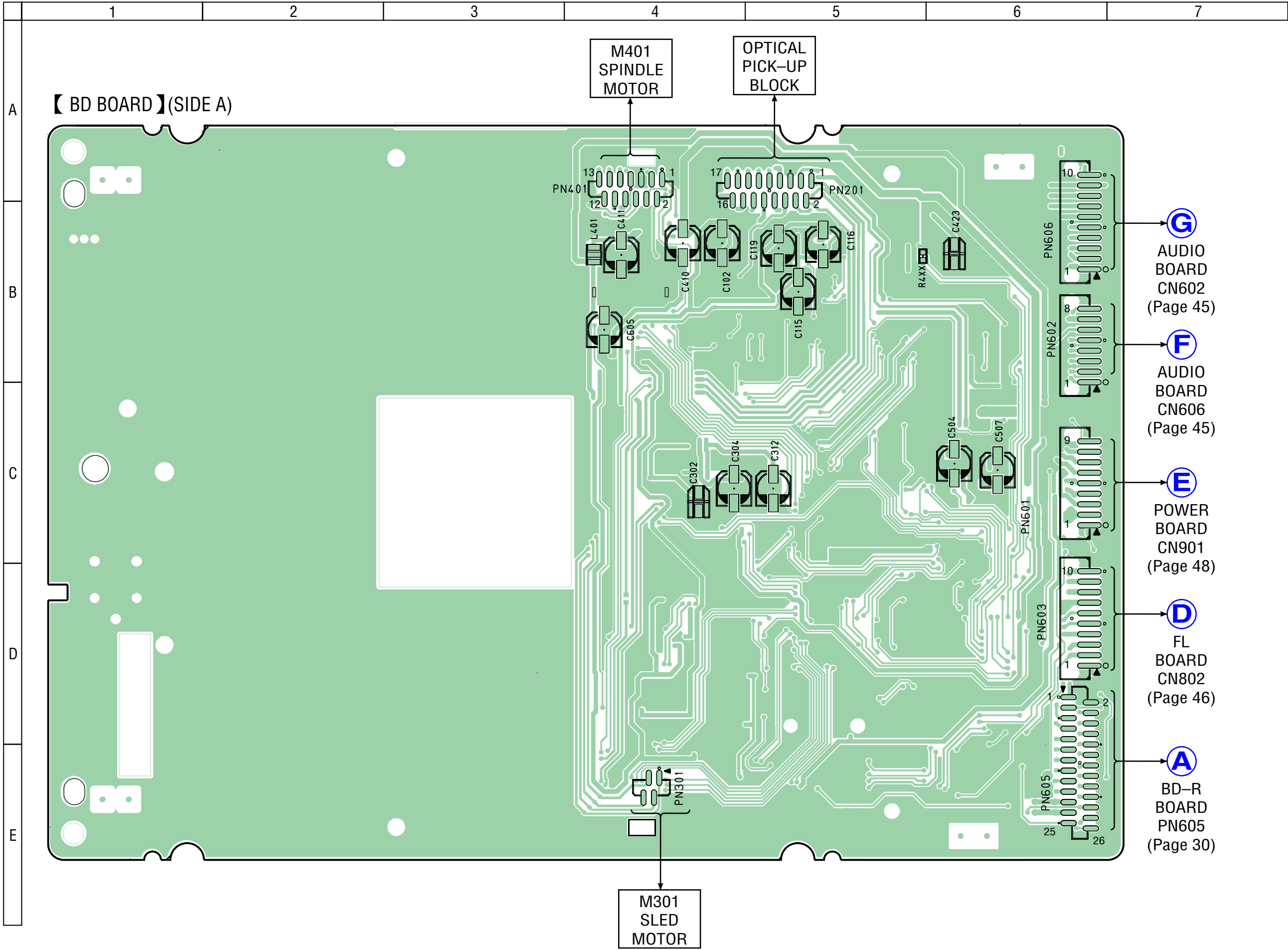
5-8.SCHEMATIC DIAGRAM -CD-R SECTION (5/6)- • See page 24 for Waveforms.

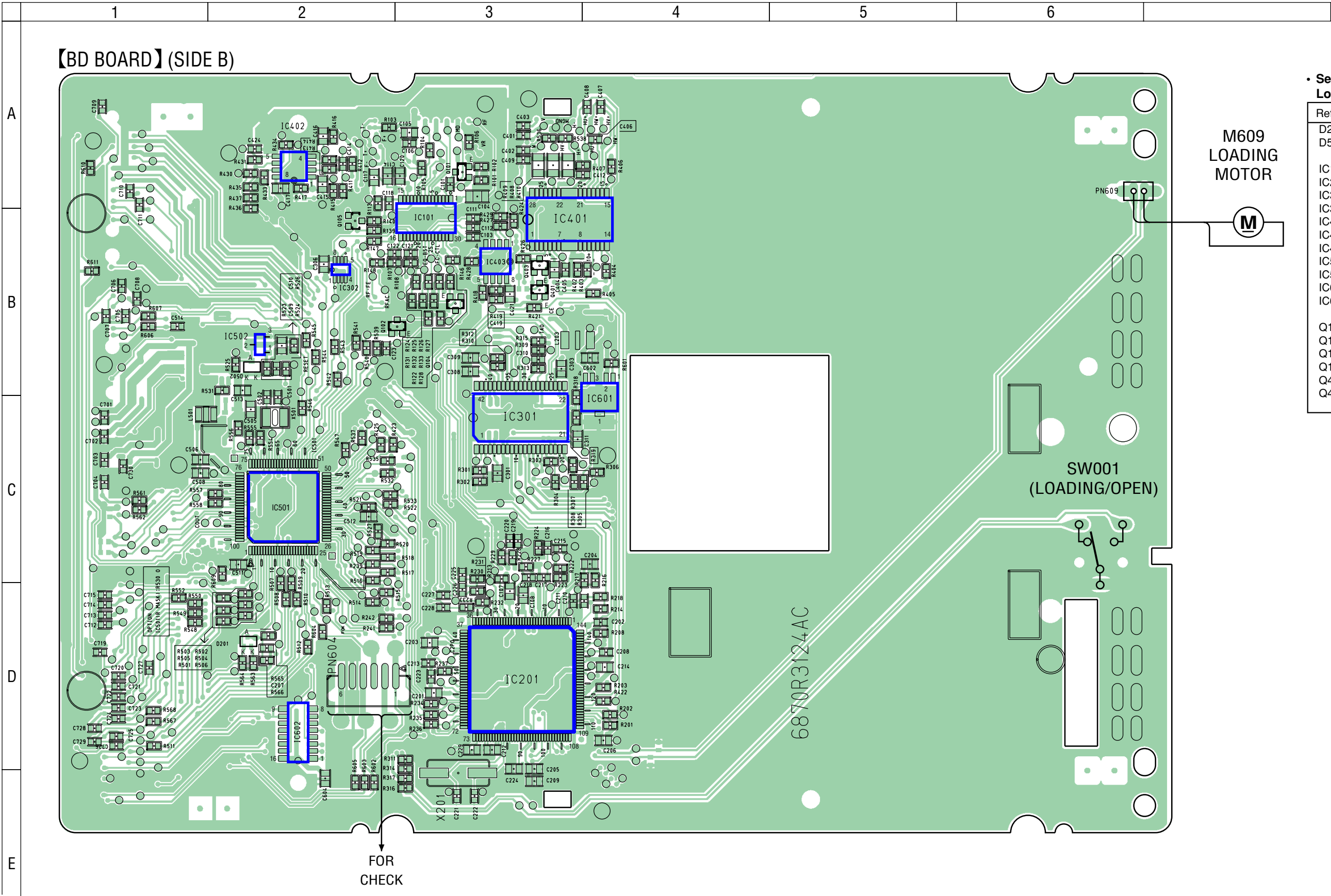


5-9.SCHEMATIC DIAGRAM -CD-R SECTION (6/6)- • See page 24 for Waveforms. • See page 56 for IC Block Diagrams.



5-10.PRINTED WIRING BOARD -CDP SECTION- • See page 23 for Circuit Board location.



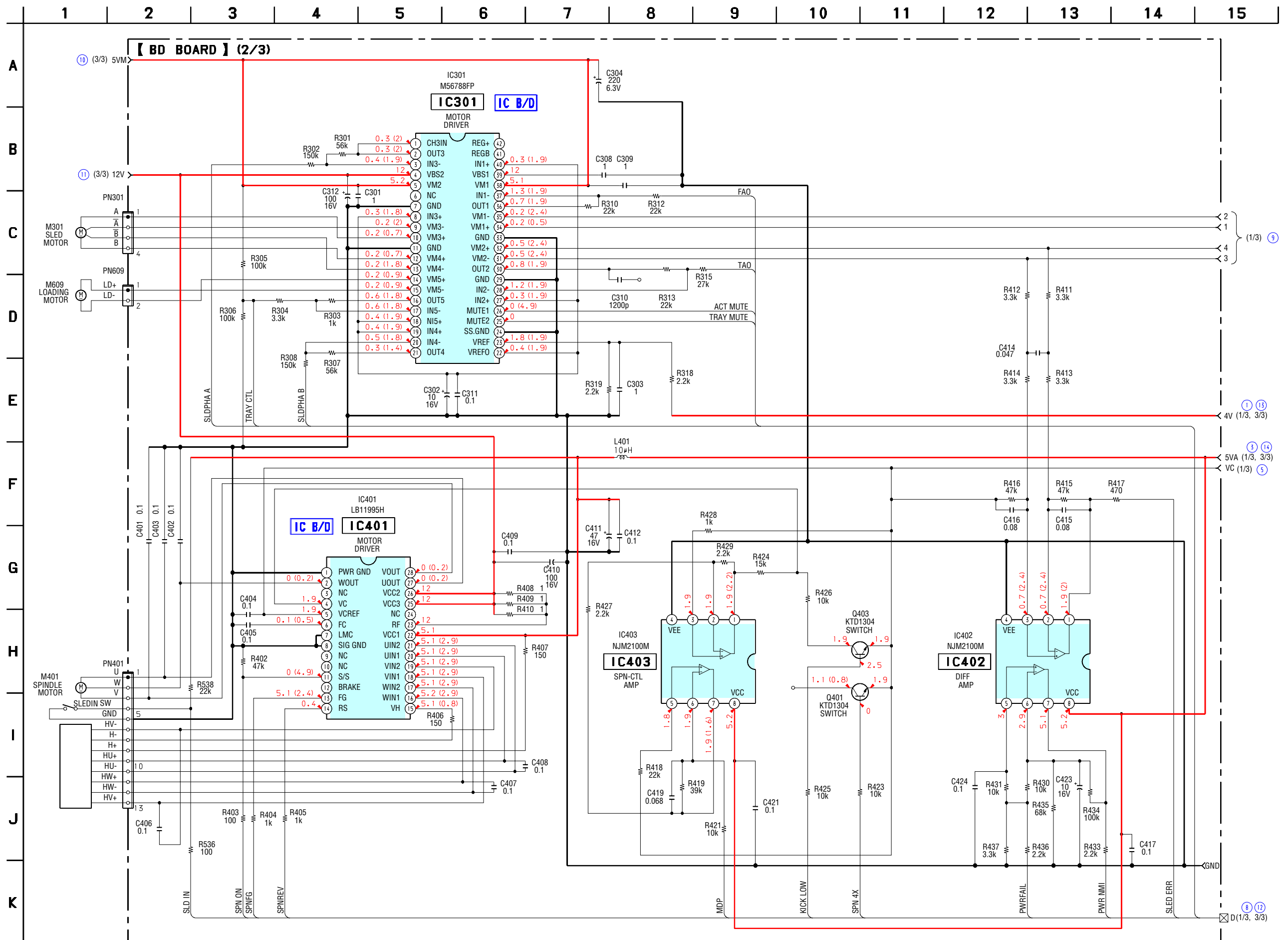


• Semiconductor Location

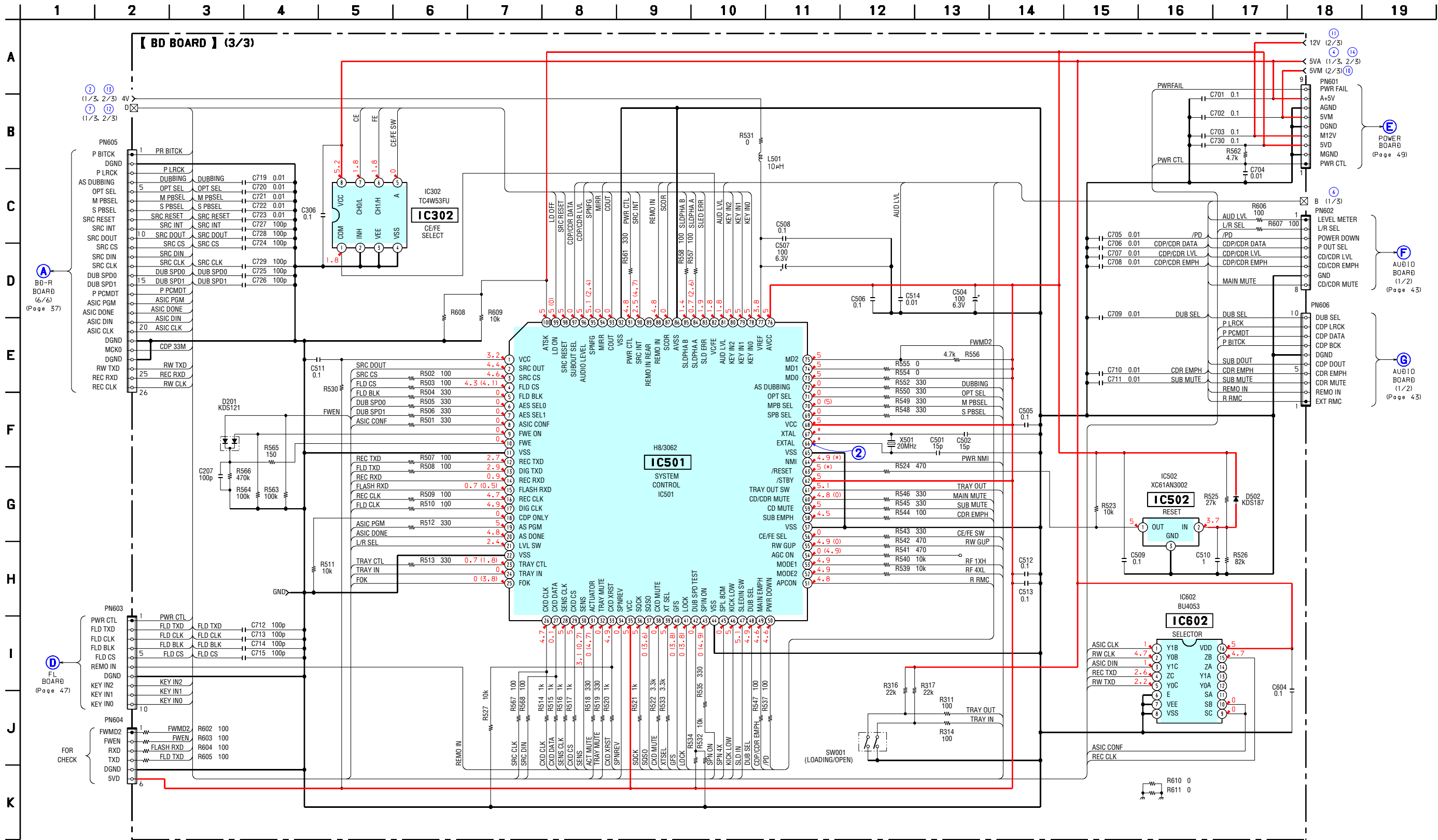
Ref. No.	Location
D201	D-2
D502	B-2
IC101	B-3
IC201	D-3
IC301	C-3
IC302	B-2
IC401	B-3
IC402	A-2
IC403	B-3
IC501	C-2
IC502	B-2
IC601	B-4
IC602	D-2
Q101	A-3
Q102	B-2
Q104	B-3
Q105	B-2
Q401	B-3
Q403	B-3



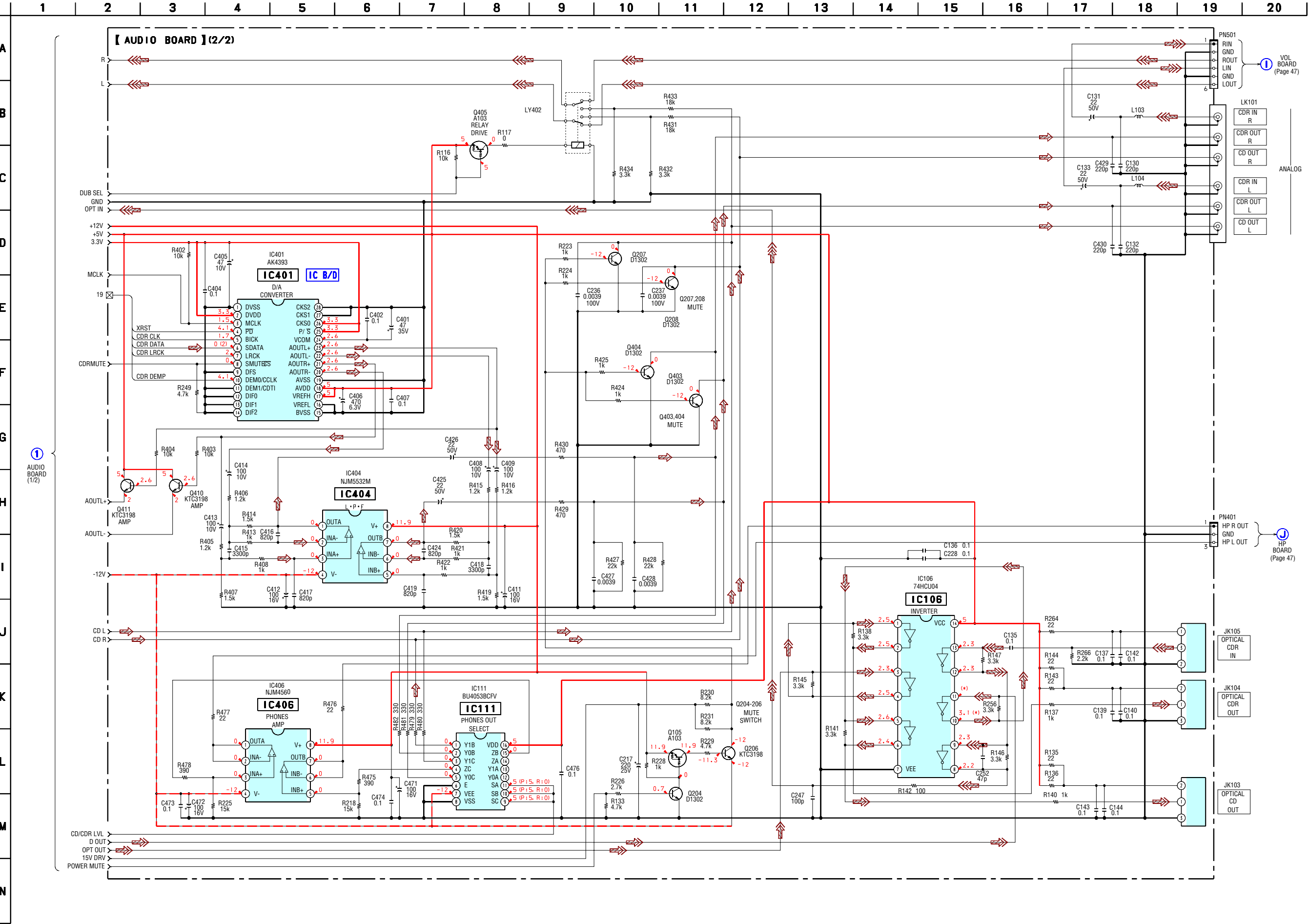
5-12.SCHEMATIC DIAGRAM -CDP SECTION (2/3)- • See page 58 for IC Block Diagrams.



5-13.SCHEMATIC DIAGRAM -CDP SECTION (3/3)- • See page 24 for Waveforms. • See page 50 for IC Pin Function Description.

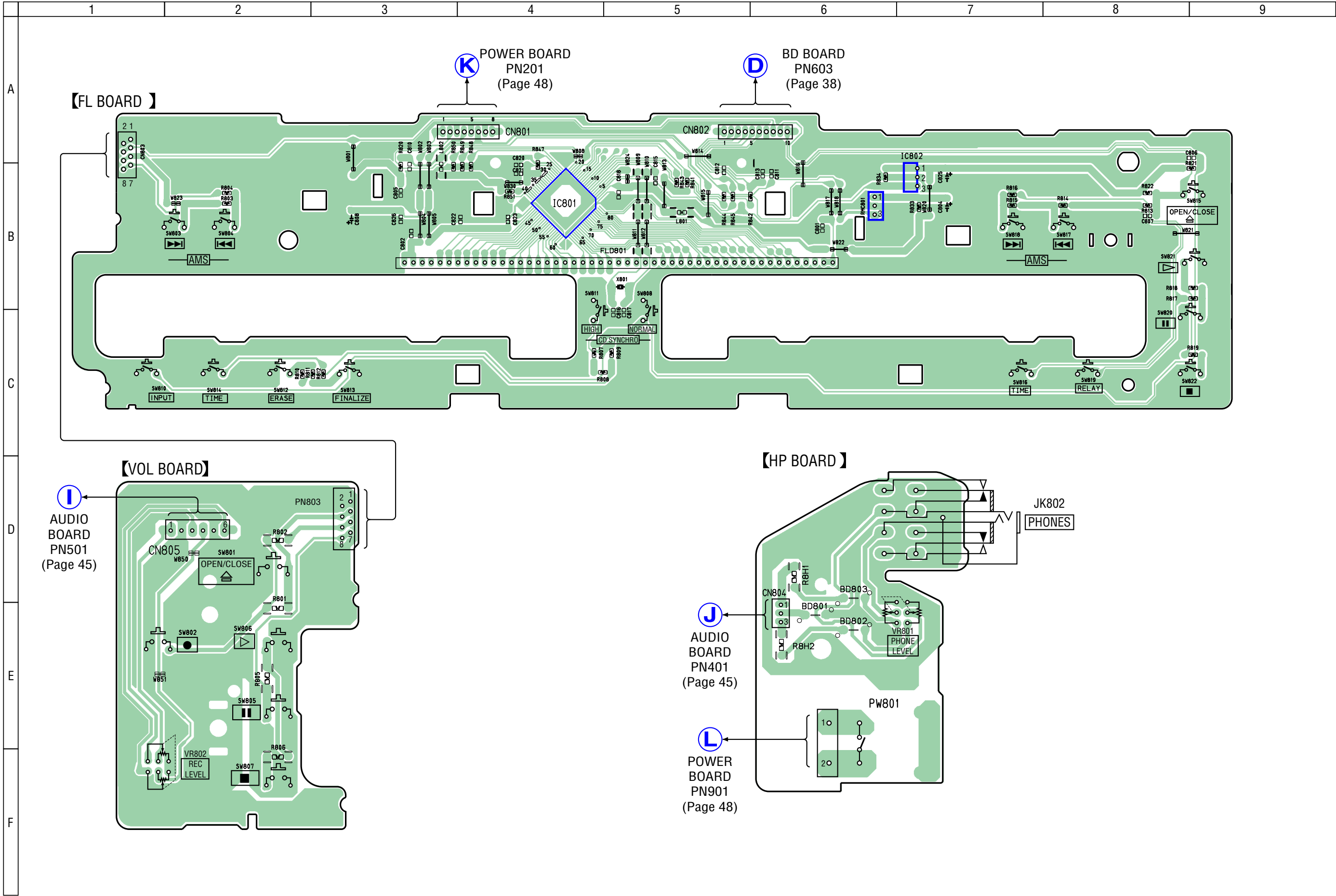


5-15.SCHEMATIC DIAGRAM -AUDIO SECTION (2/2)- • See page 60 for IC Block Diagrams.

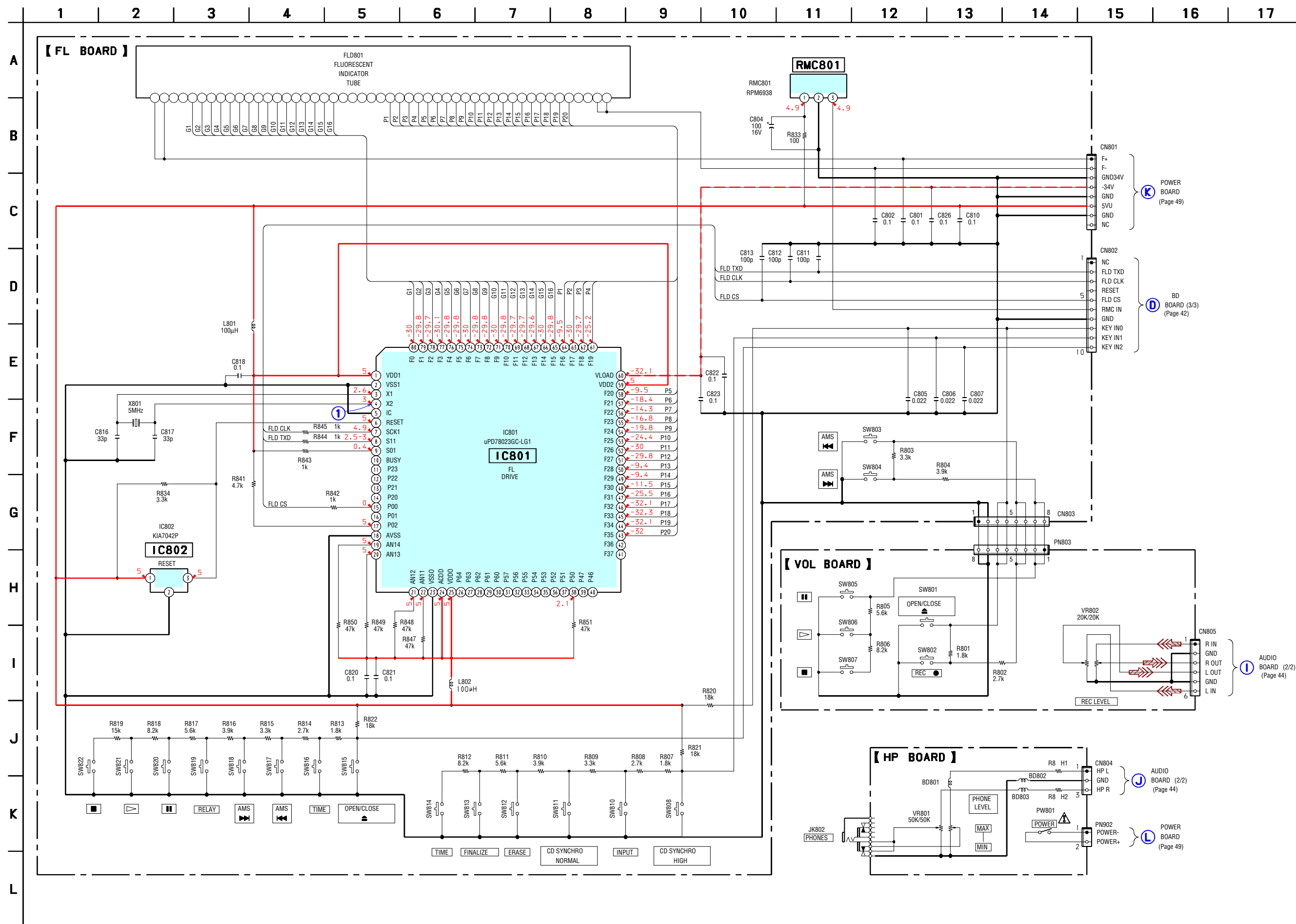




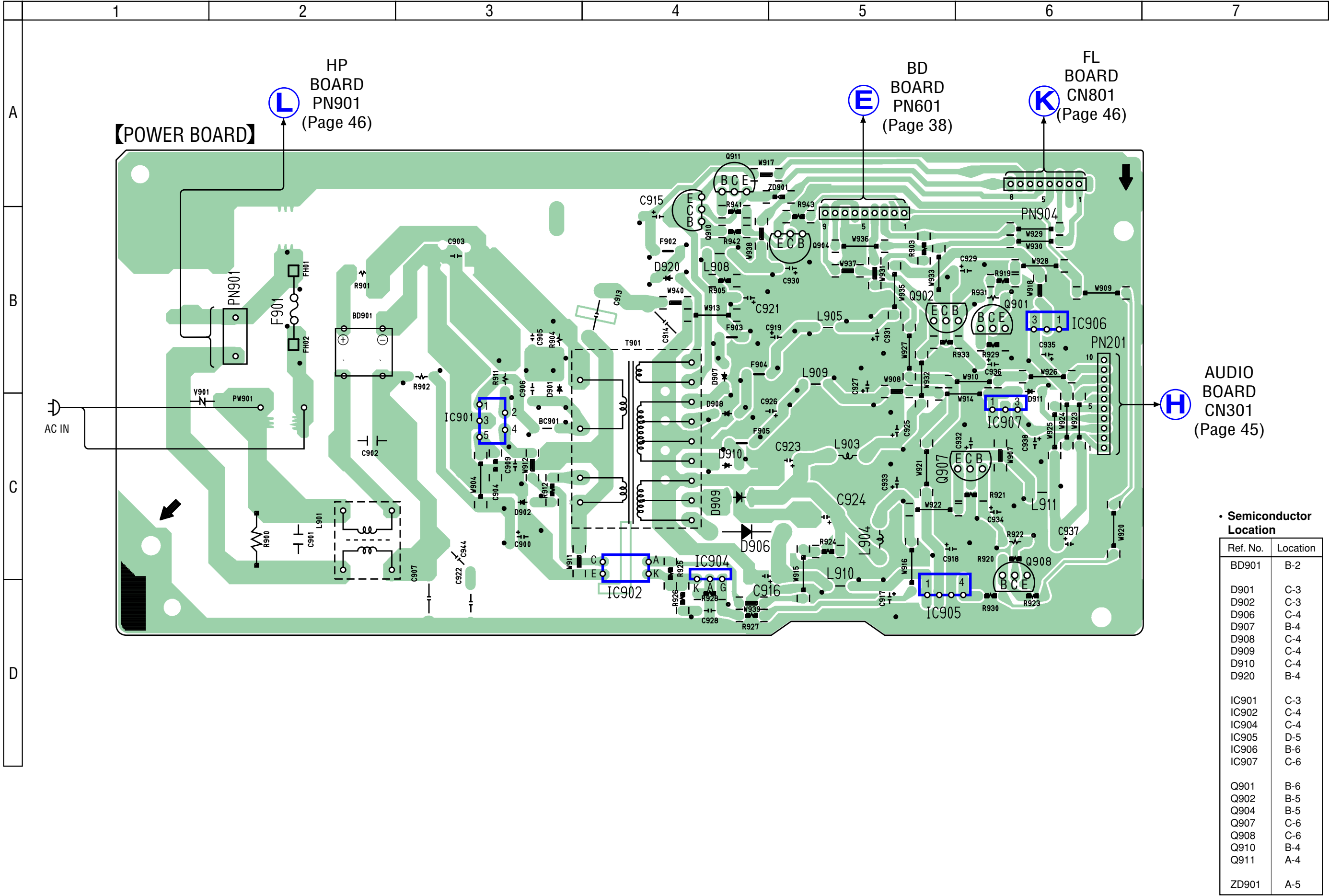
5-17.PRINTED WIRING BOARD -PANEL SECTION- • See page 23 for Circuit Board location.



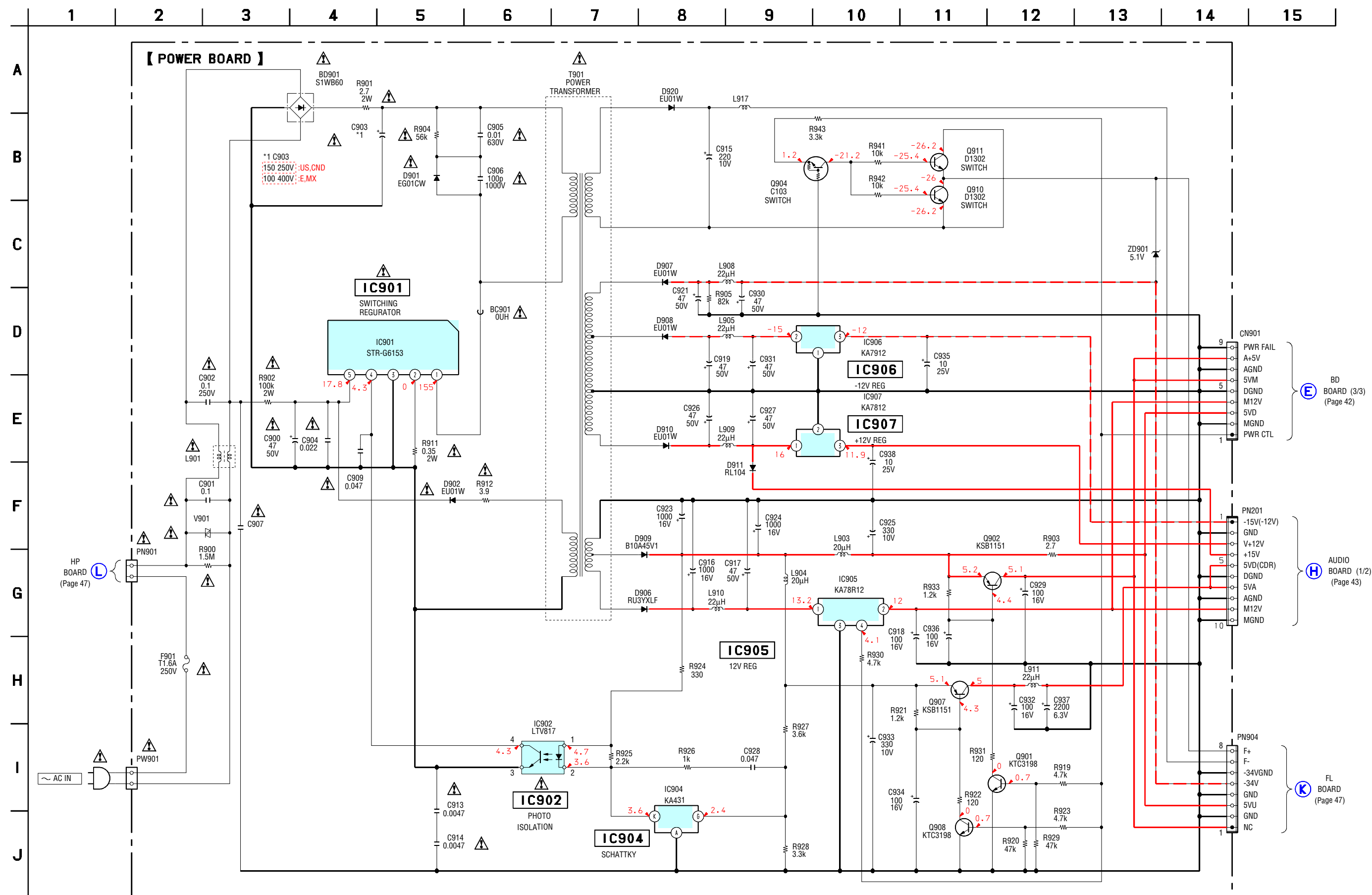
5-18.SCHEMATIC DIAGRAM -PANEL SECTION- • See page 24 for Waveforms. • See page 53 for IC Pin Function Description.



5-19.PRINTED WIRING BOARD -POWER SECTION- • See page 23 for Circuit Board location.



5-20.SCHEMATIC DIAGRAM -POWER SECTION-



5-21. IC PIN FUNCTION DISRIPTION
• IC501 HD64F3062AFBL-CD (SYSTEM CONTROL) (BD Board)

Pin No.	Pin Name	I/O	Description
1	VCC	I	+5V
2	SRC_OUT	I/O	Serial data to CS8420
3	SRC_CS	O	CS8420 chip select signal output
4	FLD_CS	O	FLD chip select signal output
5	FLD_BLK	O	FLD blanking select signal output
6	AES_SEL0	O	Mode sel0 to ASIC (VC00S01)
7	AES_SEL1	O	Mode sel1 to ASIC (VC00S01)
8	ASIC_CONF	O	ASIC config complete
9	FW_ON	O	Fresh memory write enable check
10	FWE	I	Flash write enable
11	VSS	—	Ground
12	REC_TXD	O	Serial communication with CDRW data out/ASIC config
13	DIG_TXD	O	FLD data out/flash write
14	REC_RXD	I	Serial commnication with CDRW data in/ASIC config
15	FLASH_RXD	I	Receive data from FLD/Flash read
16	REC_CLK	O	Serial commnication with CDRW CLK out/ASIC config
17	DIG_CLK	O	FLD clock output
18	CDP_ONLY	I	Mode select input
19	AS_PGM	O	ASIC program signal (Not used)
20	AS_DONE	I	ASIC done signal (Not used)
21	LVL_SW	O	Level meter L/R select signal output
22	VSS	—	Ground
23	TRAY_CTL	O	Tray control signal output
24	TRAY_IN	I	Tray in switch input
25	FOK	I	FOK singnal input from CXD3011
26	CXD_CLK	O	Serial clock to CXD3011
27	CXD_DATA	I/O	Serial data to CXD3011
28	SENS_CLK	O	Sequencer clock
29	CXD_CS	O	Chip select to CXD3011
30	SENS	O	Sequencer data output
31	ACTUATOR	O	Actuator mute
32	TRAY_MUTE	O	Tray mute
33	CXD_XRST	O	Resee signal to CXD3011
34	SPNREV	O	Spindle RS signal output
35	VCC	I	Power supply
36	SQCK	O	Sub Q signal clock output
37	SQSO	I	Sub Q code signal input
38	CXD_MUTE	O	Mute signal to CXD3011
39	XT_SEL	O	Crystal selection to CXD3011
40	GFS	I	GFS signal input from CXD3011
41	LOCK	I	Spindle lock signal from CXD3011
42	DUB_SPD_TEST	I	Mode select input
43	SPIN_ON	O	Spindle on signal output
44	VSS	—	Ground
45	SPL_8CM	O	Spindle 8cm/12cm select signal output
46	KICK_LOW	O	Spindle speed control signal output
47	SLEDIN_SW	I	Sled In switch signal input
48	DUB_SEL	O	Dubbing select signal output
49	MAIN_EMHP	O	Main emph signal output
50	PWR_DOWN	O	Power down control output

Pin No.	Pin Name	I/O	Description
51	APCON	O	Audio out mute signal output
52	MODE2	O	PreAmp control2 output
53	MODE1	O	PreAmp control1 output
54	AGC_ON	O	PreAmp AGC on control (Not used)
55	RW_GUP	O	LD power select (CD-R/CDRW) signal output
56	CE/FE_SEL	O	CE/FE select signal output
57	VSS	—	Ground
58	SUB_EMPH	O	Sub emph signal output
59	CD_MUTE	O	CD mute signal output
60	CD/CDR_MUTE	O	CD/CDR mute signal output
61	TRAY_OUT_SW	I	Tray out switch signal input
62	/STBY	I	Not used (connected to VCC)
63	/RESET	I	Reset input
64	NMI	I	Non maskable interrupt
65	VSS	—	Ground
66	EXTAL	I	Connected to the crystal oscillator (20MHz)
67	XTAL	O	Connected to the crystal oscillator (20MHz)
68	VCC	I	Power supply
69	SPB_SEL	O	EXT input/CDP data select signal output
70	MPB_SEL	O	EXT input/CDR data select signal output
71	OPT_SEL	O	OPT SELECT signal output
72	AS_DUBBING	O	Dubbing select signal output
73	MD0	I	Micom mode select input
74	MD1	I	Micom mode select input
75	MD2	I	Micom mode select input
76	AVCC	I	Power supply
77	VREF	I	VREF input (+4V)
78	KEY_IN0	I	Key input 0 (A/D pore)
79	KEY_IN1	I	Key input 1 (A/D pore)
80	KEY_IN2	I	Key input 2 (A/D pore)
81	AUD_LVL	I	Audio level for level meter
82	VC/FE	I	VC (CE) /FE input
83	SLD_ERR	I	Sled error for sled control
84	SLDPHA_A	O	DAC output for sled control A
85	SLDPHA_B	O	DAC output for sled control B
86	AVSS	—	Ground
87	SCOR	I	Sub code signal input
88	REMO_IN	I	Remocon data receive signal input
89	REMO_IN_REAR	I	Not used (open)
90	SRC_INT	I	Interrupt signal input from CS8420
91	PWR_CTL	O	Power control signal output
92	VSS	—	Ground
93	COU_T	I	COU_T signal input from CXD3011
94	MIRR	I	MIRR signal input from CXD3011
95	SPNFG	I	Spindle FG signal input
96	AUDIO_LEVEL	O	CD/CDR select signal output
97	SUBOUT_SEL	O	CD/CDR select signal output
98	SRC_RESET	O	Reset signal output to CS8420
99	LD_ON	O	Laser on signal output
100	ATSK	I	Mode select input

• IC701 HD64F3062AFBL-CDR (SYSTEM CONTROL) (BD-R Board)

Pin No.	Pin Name	I/O	Description
1	VCC	I	Power supply
2	ATIP/EFM#	O	ATIP/EFM signal output to XC9536
3	/PRST	O	Preset signal output to OTI-9790
4	/UCS1	O	Mode set signal output to OTI-9790
5	/UCS0	O	Mode set signal output to OTI-9790
6	ADSEL	O	Hall or sled out AD signal selector signal output
7	WR/RE#	O	Read or write (CPLD) select signal output
8	AUD_MUTE	O	Audio mute
9	FWE_ON	O	Flash write enable check
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	REC_CLK	O	Clock output to CDP
17	/SDINT	I	Servo interrupt input
18	SDATAO	O	Serial data output to CXA2551R
19	SCLK	O	Serial clock to CXA2551R
20	CDR/PW#	O	CDR/CDRW select signal output
21	/EPCS	O	EPROM chip selector signal output
22	VSS	—	Ground
23	/CXALS	O	CXA2551R chip select signal output
24	/DACS	O	DAC chip select signal output
25	TRAY_MUTE	O	Tray mute signal output
26	ACT_MUTE	O	Actuator mute signal output
27	UAD0	I/O	Data BUS
28	UAD1	I/O	Data BUS
29	UAD2	I/O	Data BUS
30	UAD3	I/O	Data BUS
31	UAD4	I/O	Data BUS
32	UAD5	I/O	Data BUS
33	UAD6	I/O	Data BUS
34	UAD7	I/O	Data BUS
35	VCC	I	Power supply
36	UA0	O	Address BUS
37	UA1	O	Address BUS
38	UA2	O	Address BUS
39	UA3	O	Address BUS
40	UA4	O	Address BUS
41	UA5	O	Address BUS
42	UA6	O	Address BUS
43	UA7	O	Address BUS
44	VSS	—	Ground
45	UA8	O	Address BUS
46	/LOAD_SW	I	OPEN switch signal input
47	/OPEN_SW	I	LOAD switch signal input
48	RECD1	I	RECD1 signal input from CXA2551R
49	RECD2	I	RECD2 signal input from CXA2551R
50	TSTMDO	I	Not used

Pin No.	Pin Name	I/O	Description
51	HOT_TX	O	Not used
52	HOT_RX	I	Not used
53	XTOR	I	XTOR signal input from CXA2551R
54	TSTMD1	I	Servo flag input
55	AS_STRT	I	Test mode 1 (Not used)
56	FLAGB(RFZC)	I	Servo flag input
57	VSS	—	Ground
58	SRDY	I	OAK data ready
59	AGCON	O	AGC on signal output to CXA2551R
60	ROPCON	O	ROPC related CPLD signal output
61	SDATAI	I	Serial data input from EEPROM
62	/STBY	I	Not used (connected to VCC)
63	/RESET	I	Reset signal input
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	O	Power supply
69	/AS	O	Not used
70	/URD	O	μ-COM data read signal output
71	/UHWR	O	μ-COM data write signal output
72	/ULWR	O	Not used
73	MD0 (1)	I	Mode select input
74	MD1 (0)	I	Mode select input
75	MD2 (1)	I	Mode select input
76	AVCC	I	Power supply
77	VREF (4V)	I	VREF input (+4V)
78	ASYM1/LVL0	I	RF hold data input
79	ASYM2/LVL1	I	RF hold data input
80	BETA/JITTER	O	Not used
81	MPXO	I	Multiplexed output from CXA2551R
82	HALL/SLDOUT	I	AD signal for sled control
83	ADC5	I	Not used
84	ADC0	O	Not used
85	SLDMOVE	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-9790
89	/UINT1	I	Interrupt signal input from OTI-9790
90	ADTRIG	I	AD trig signal input from XC9536
91	CS0/P84	O	Not used
92	VSS	—	Ground
93	FLAGA (TEZC)	I	Servo flag input
94	SBRK	O	Short brake for spindle control
95	SPNFG	I	Spindle FG signal input
96	OPCING	O	Opcing signal output
97	SLDFG	I	Sled FG signal input
98	SPNON	O	Spindle ON signal output
99	SPN8/12	O	Spindle 8/12 detect signal output
100	SPNBOOST	O	Spindle boost signal output

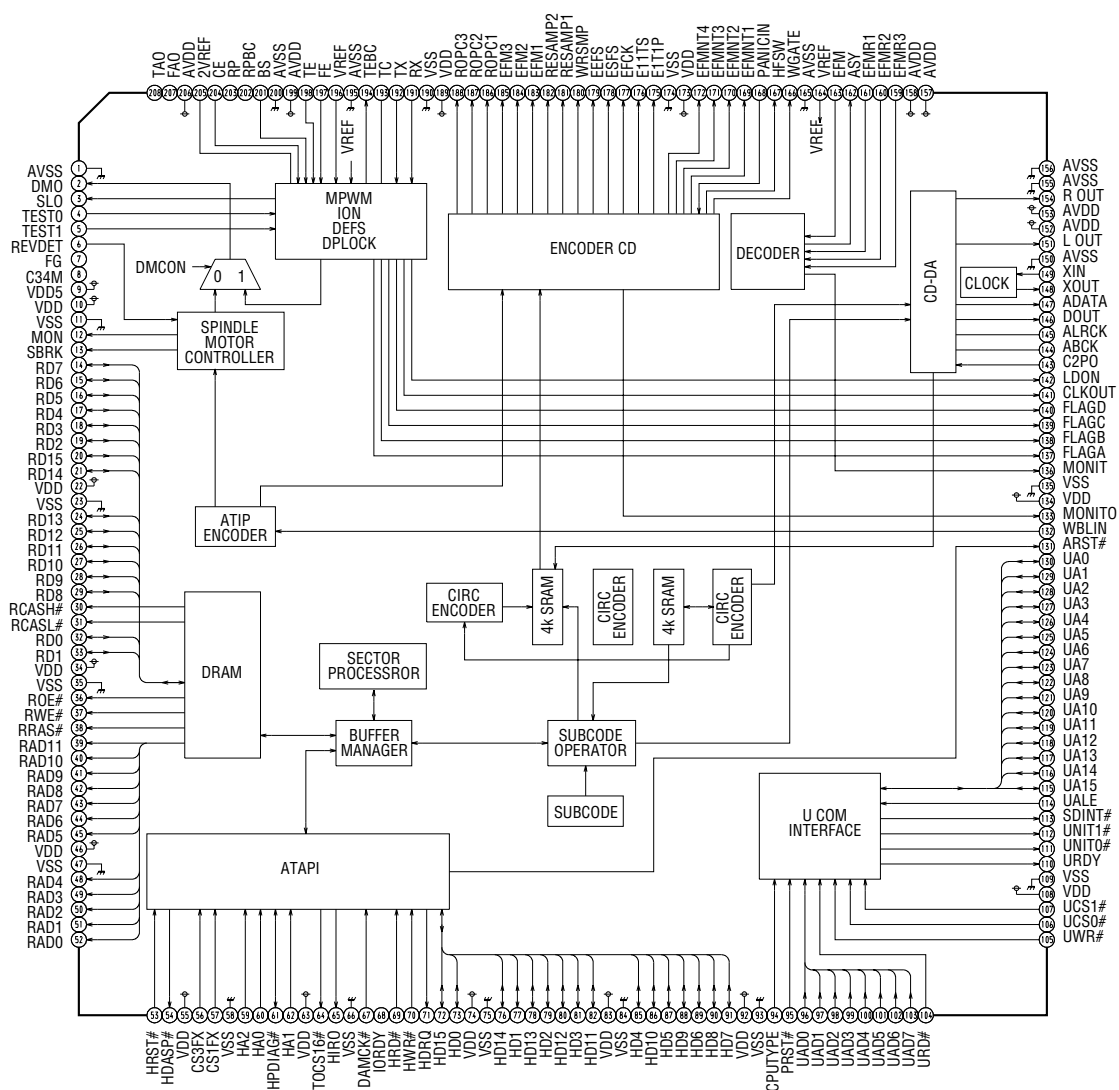
• IC801 DRIVER (uPD780232GC-LG1) (FL Board)

Pin No.	Pin Name	I/O	Description
1	VDD1	I	Power supply
2	VSS1	—	Ground
3	X1	I	Connected to the crystal oscillator (5MHz)
4	X2	O	Connected to the crystal oscillator (5MHz)
5	IC	I	Internally connected. (Connect to ground)
6	RESET	I	System reset input
7	SCK1	I/O	Serial serial clock I/O
8	SI1	I	Serial data input
9	SO1	O	Serial data output
10	BUSY	O	Not used
11	P23	O	Not used
12	P22	O	Not used
13	P21	O	Not used
14	P20	O	Not used
15	P00	I	Chip select signal input
16	P01	O	Not used
17	P02	I	Connect to Vdd via a resistor.
18	AVSS	—	Ground
19	ANI3	I	Connect to Vdd via a resistor.
20	ANI2	I	Connect to Vdd via a resistor.
21	ANI1	I	Connect to Vdd via a resistor.
22	ANI0	I	Connect to Vdd via a resistor.
23	VSS0	—	Ground
24	AVDD	I	Power supply
25	VDD0	I	Power supply
26	P64	—	Not used
27	P63	—	Not used
28	P62	—	Not used
29	P61	—	Not used
30	P60	—	Not used
31	P57	—	Not used
32	P56	—	Not used
33	P55	—	Not used
34	P54	—	Not used
35	P53	—	Not used
36	P52	—	Not used
37	P51	—	Not used
38	P50	I	Connect to Vdd via a resistor.
39	P47	—	Not used
40	P46	—	Not used
41	F37	—	Not used
42	F36	—	Not used
43	F35	O	Fluorescent disply tube segment signal output
44	F34	O	Fluorescent disply tube segment signal output
45	F33	O	Fluorescent disply tube segment signal output
46	F32	O	Fluorescent disply tube segment signal output
47	F31	O	Fluorescent disply tube segment signal output
48	F30	O	Fluorescent disply tube segment signal output
49	F29	O	Fluorescent disply tube segment signal output
50	F28	O	Fluorescent disply tube segment signal output

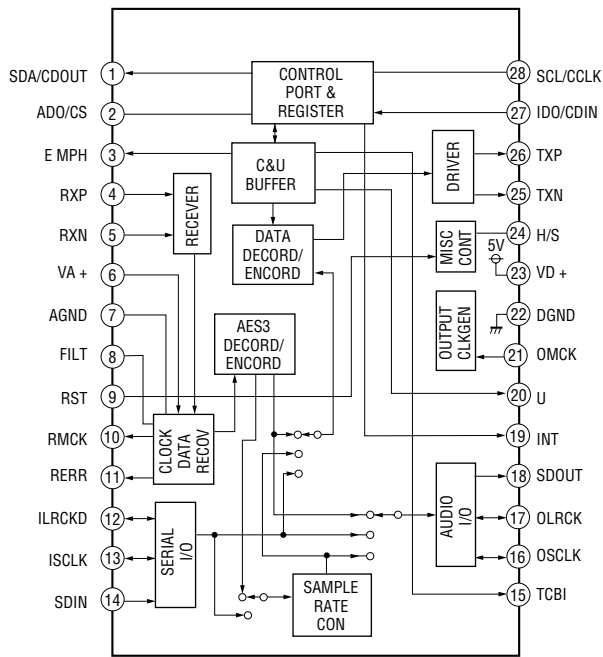
Pin No.	Pin Name	I/O	Description
51	F27	O	Fluorescent dispaly tube segment signal output.
52	F26	O	Fluorescent dispaly tube segment signal output.
53	F25	O	Fluorescent dispaly tube segment signal output.
54	F24	O	Fluorescent dispaly tube segment signal output.
55	F23	O	Fluorescent dispaly tube segment signal output.
56	F22	O	Fluorescent dispaly tube segment signal output.
57	F21	O	Fluorescent dispaly tube segment signal output.
58	F20	O	Fluorescent dispaly tube segment signal output.
59	VDD2	I	Power supply for FL driver
60	VLOAD	I	Power supply (-34V) for FL driver
61	F19	O	Fluorescent dispaly tube segment signal output.
62	F18	O	Fluorescent dispaly tube segment signal output.
63	F17	O	Fluorescent dispaly tube segment signal output.
64	F16	O	Fluorescent dispaly tube segment signal output.
65	F15	O	Fluorescent dispaly tube common signal output.
66	F14	O	Fluorescent dispaly tube common signal output.
67	F13	O	Fluorescent dispaly tube common signal output.
68	F12	O	Fluorescent dispaly tube common signal output.
69	F11	O	Fluorescent dispaly tube common signal output.
70	F10	O	Fluorescent dispaly tube common signal output.
71	F9	O	Fluorescent dispaly tube common signal output.
72	F8	O	Fluorescent dispaly tube common signal output.
73	F7	O	Fluorescent dispaly tube common signal output.
74	F6	O	Fluorescent dispaly tube common signal output.
75	F5	O	Fluorescent dispaly tube common signal output.
76	F4	O	Fluorescent dispaly tube common signal output.
77	F3	O	Fluorescent dispaly tube common signal output.
78	F2	O	Fluorescent dispaly tube common signal output.
79	F1	O	Fluorescent dispaly tube common signal output.
80	F0	O	Fluorescent dispaly tube common signal output.

5-22. IC BLOCK DIAGRAMS

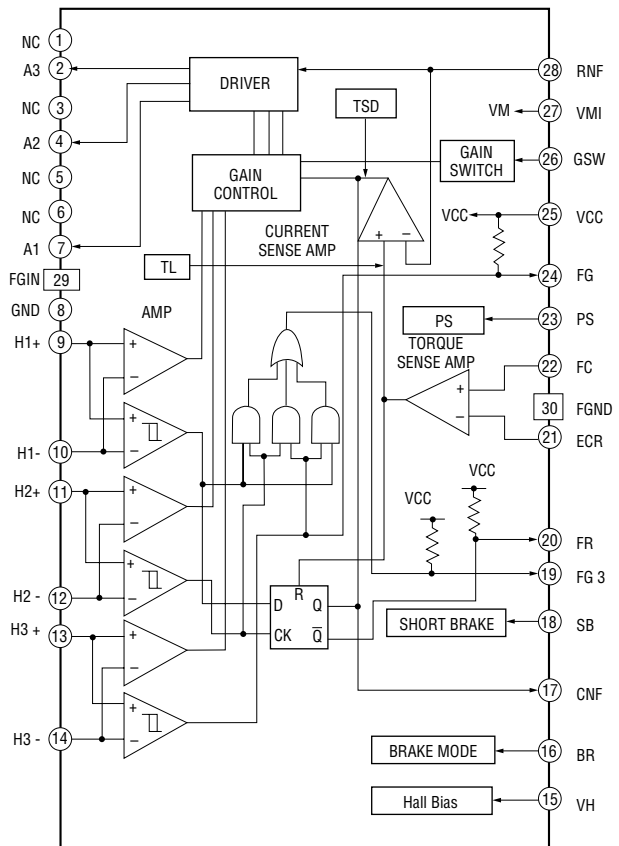
IC201 OTI9790 (BD-R board)



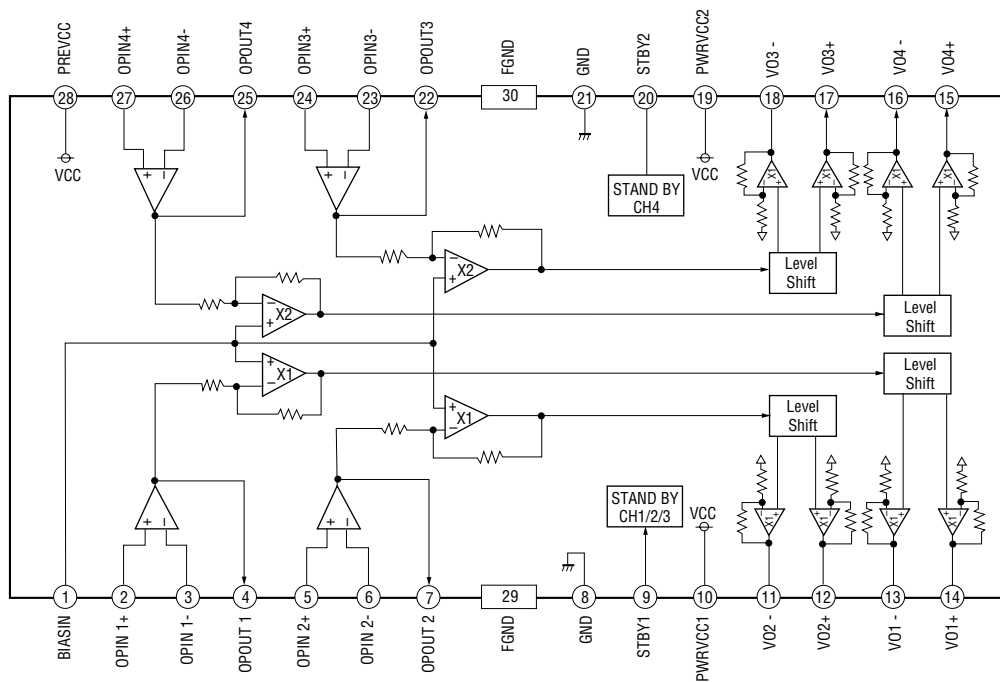
IC306 CS8420-CSR (BD-R board)



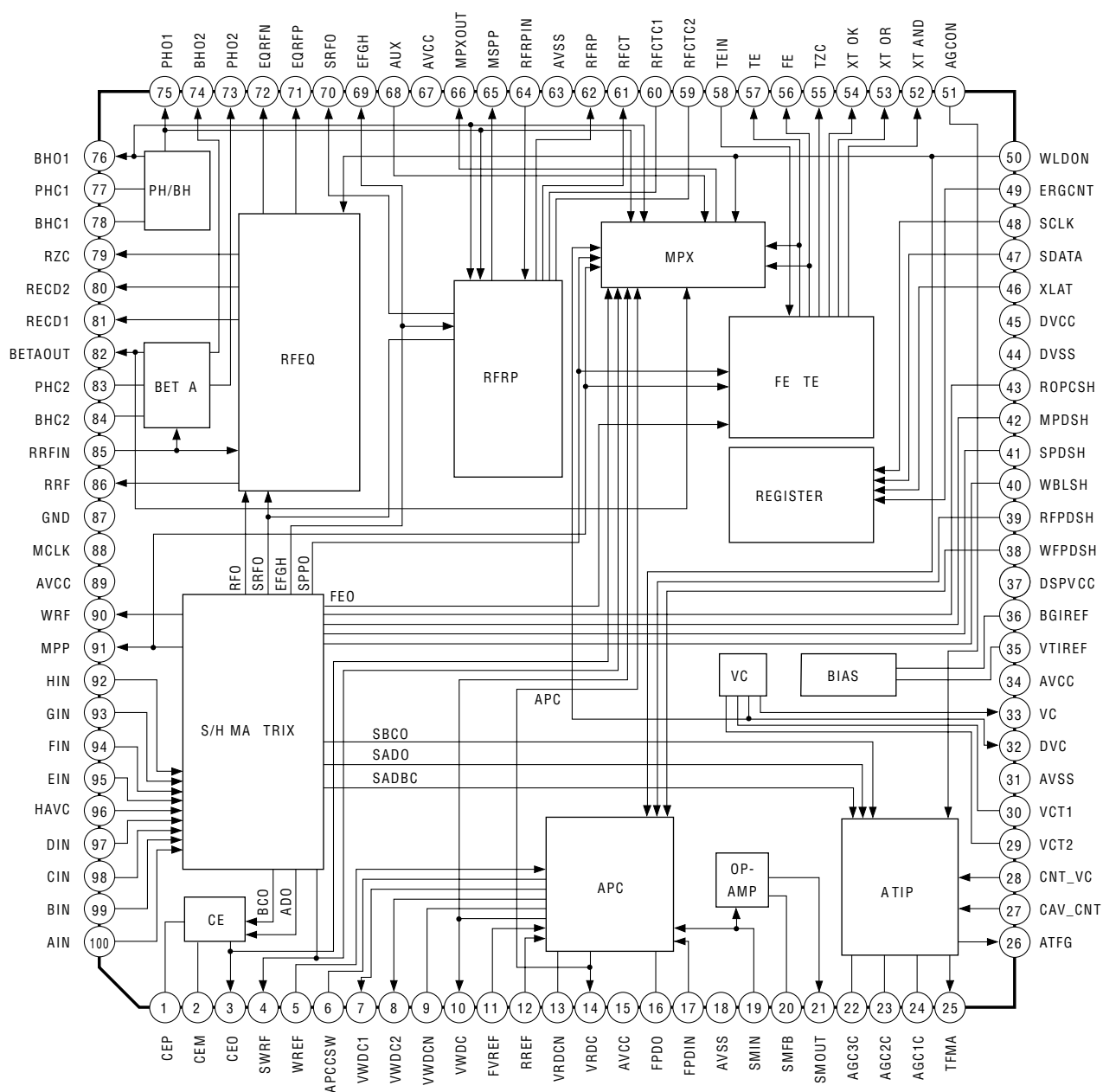
IC510 BA6664FM-E2 (BD-R board)



IC501 BA5983FM (BD-R board)

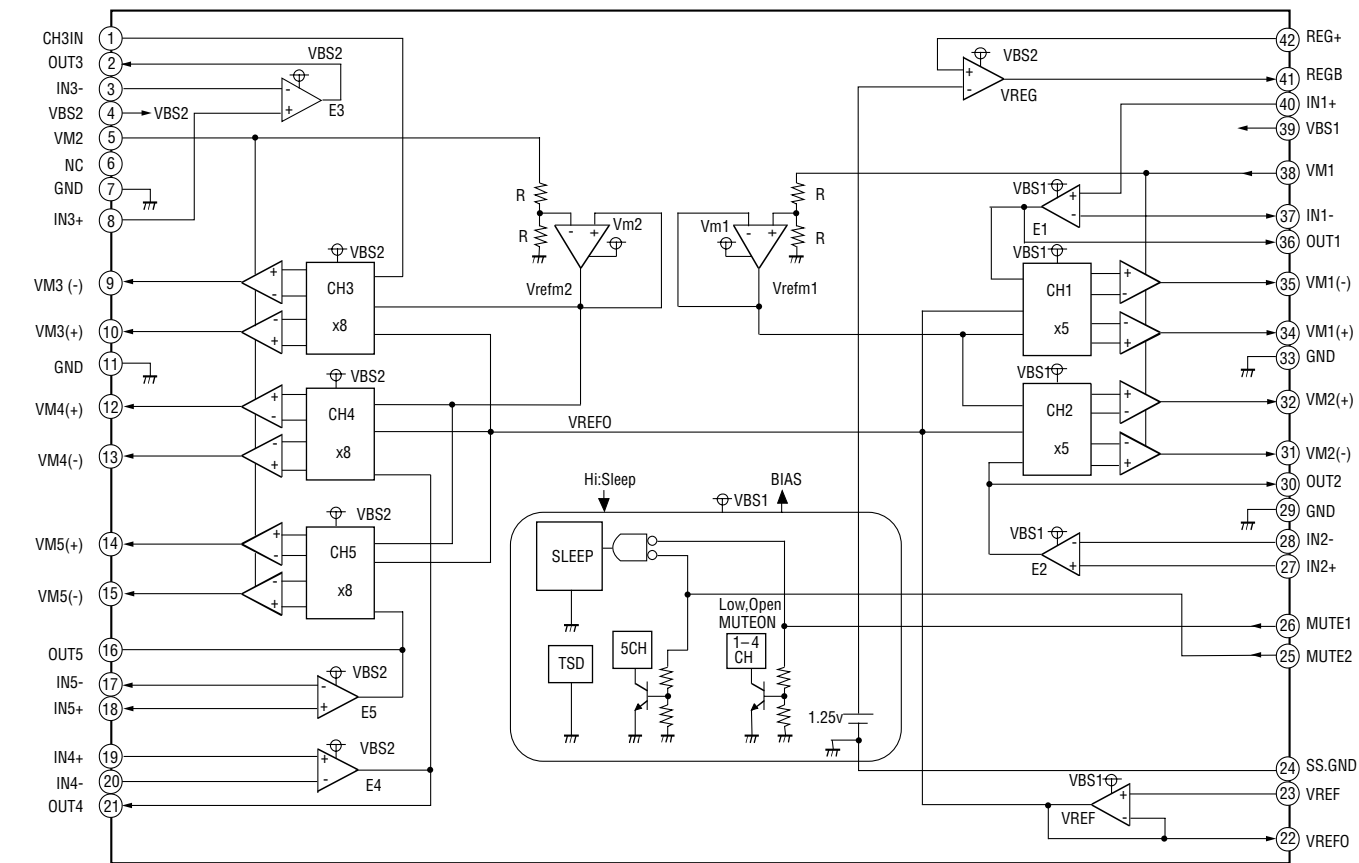


IC401 CXA2551AR (BD-R board)

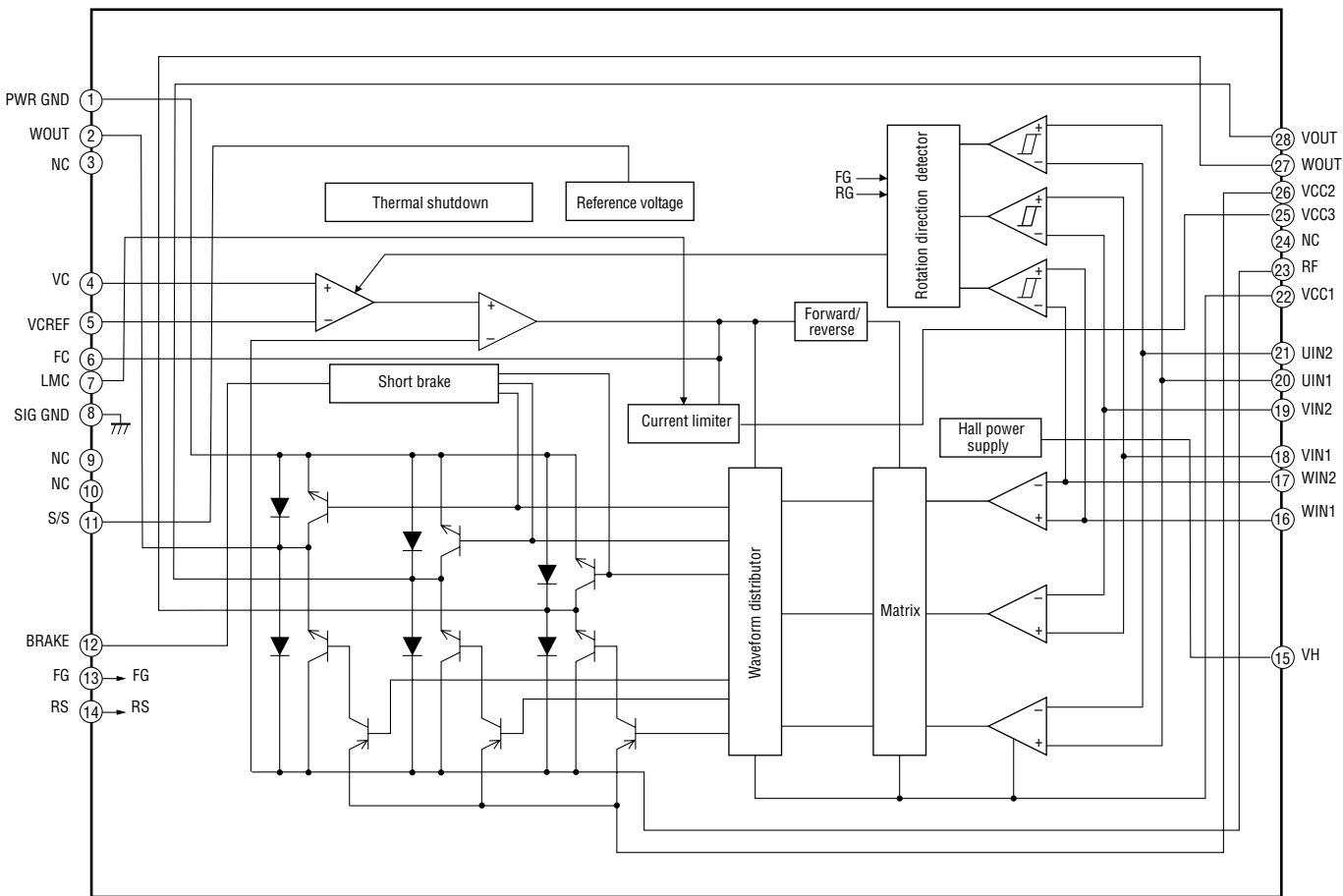


RCD-W1

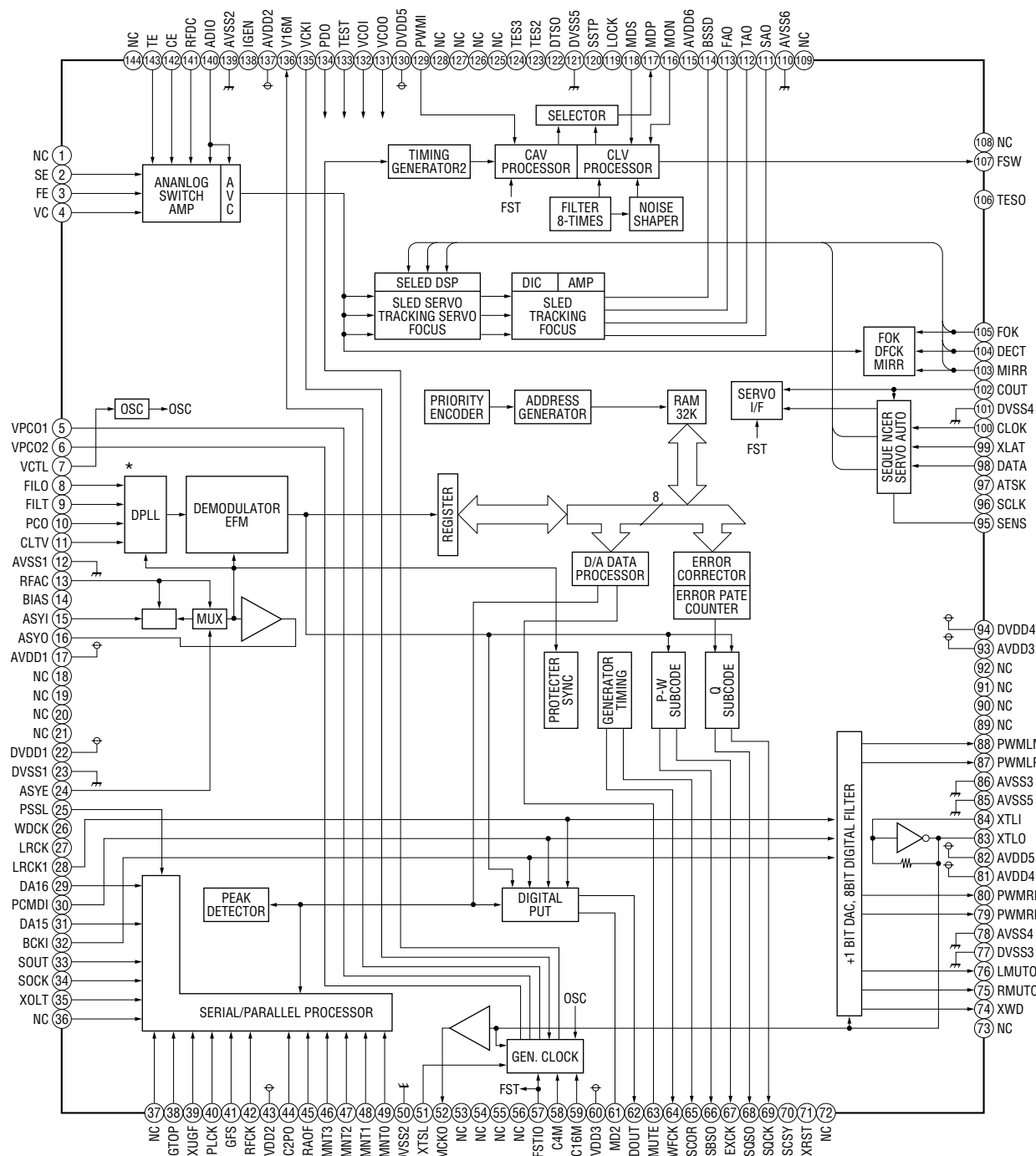
IC301 M56788FP (BD board)



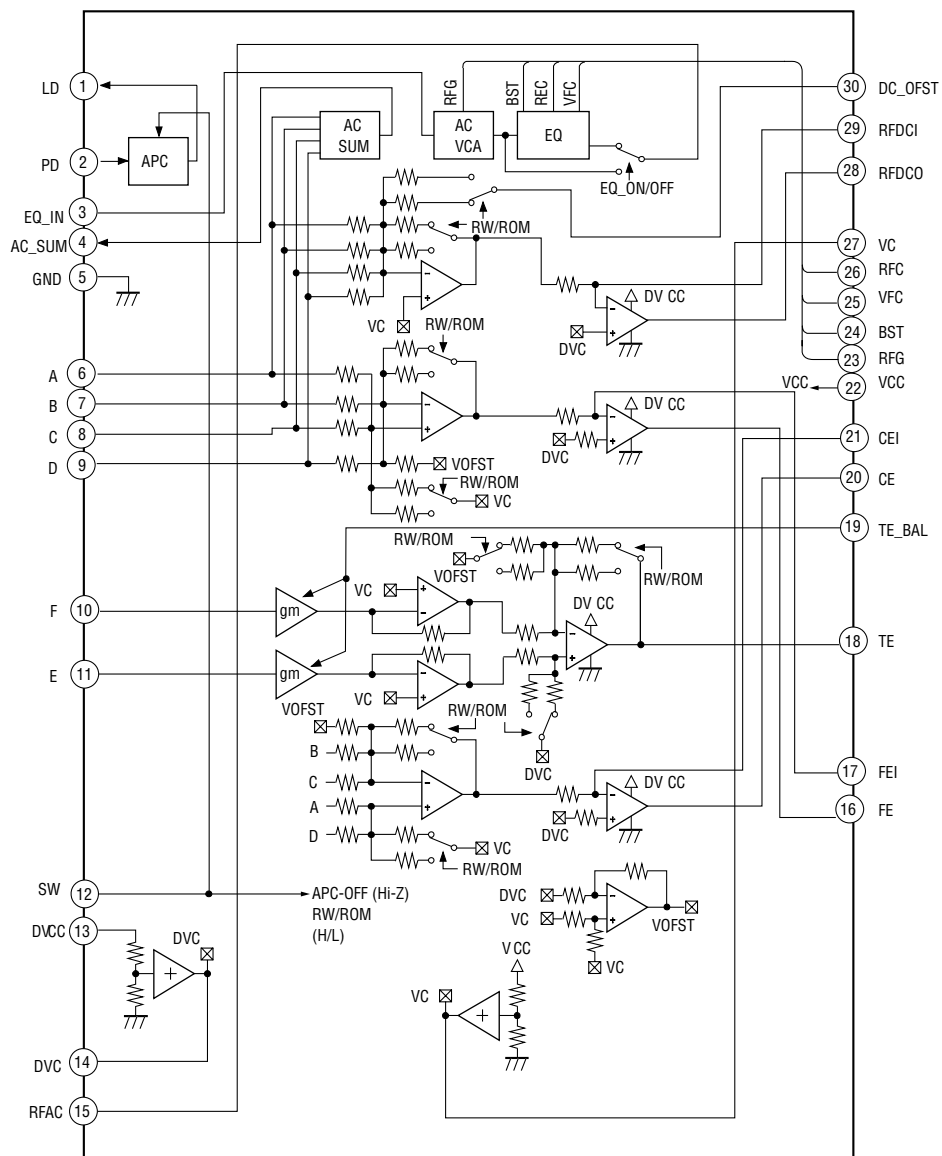
IC401 LB11995H-TLM (BD board)



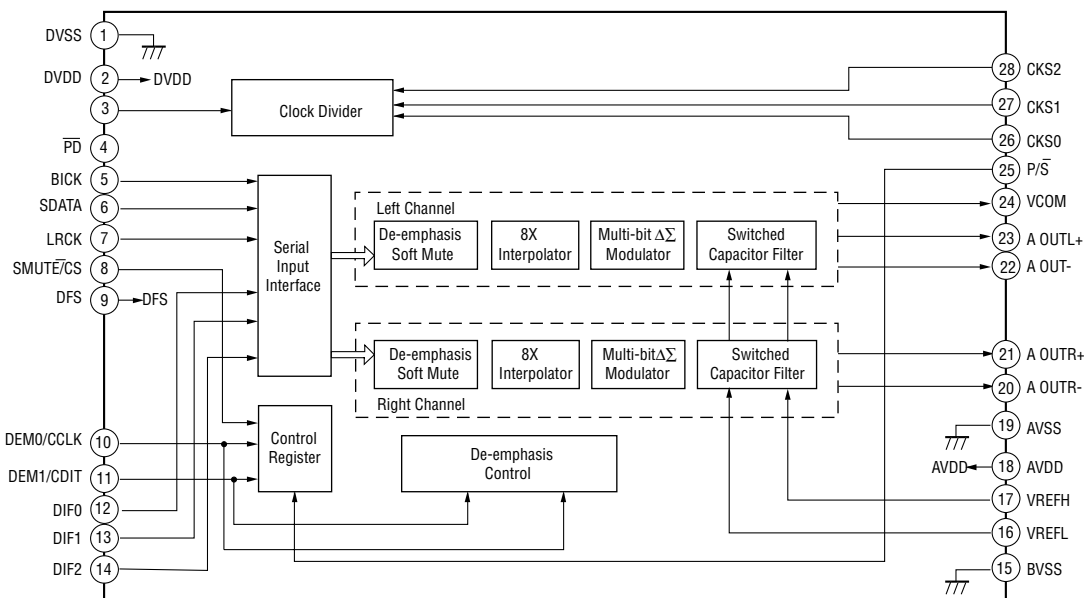
IC201 CXD3011-1R (BD board)



IC101 CXA2581N (BD board)



IC105,401 AK4393VF-E2 (AUDIO board)



SECTION 6

EXPLODED VIEWS

NOTE:

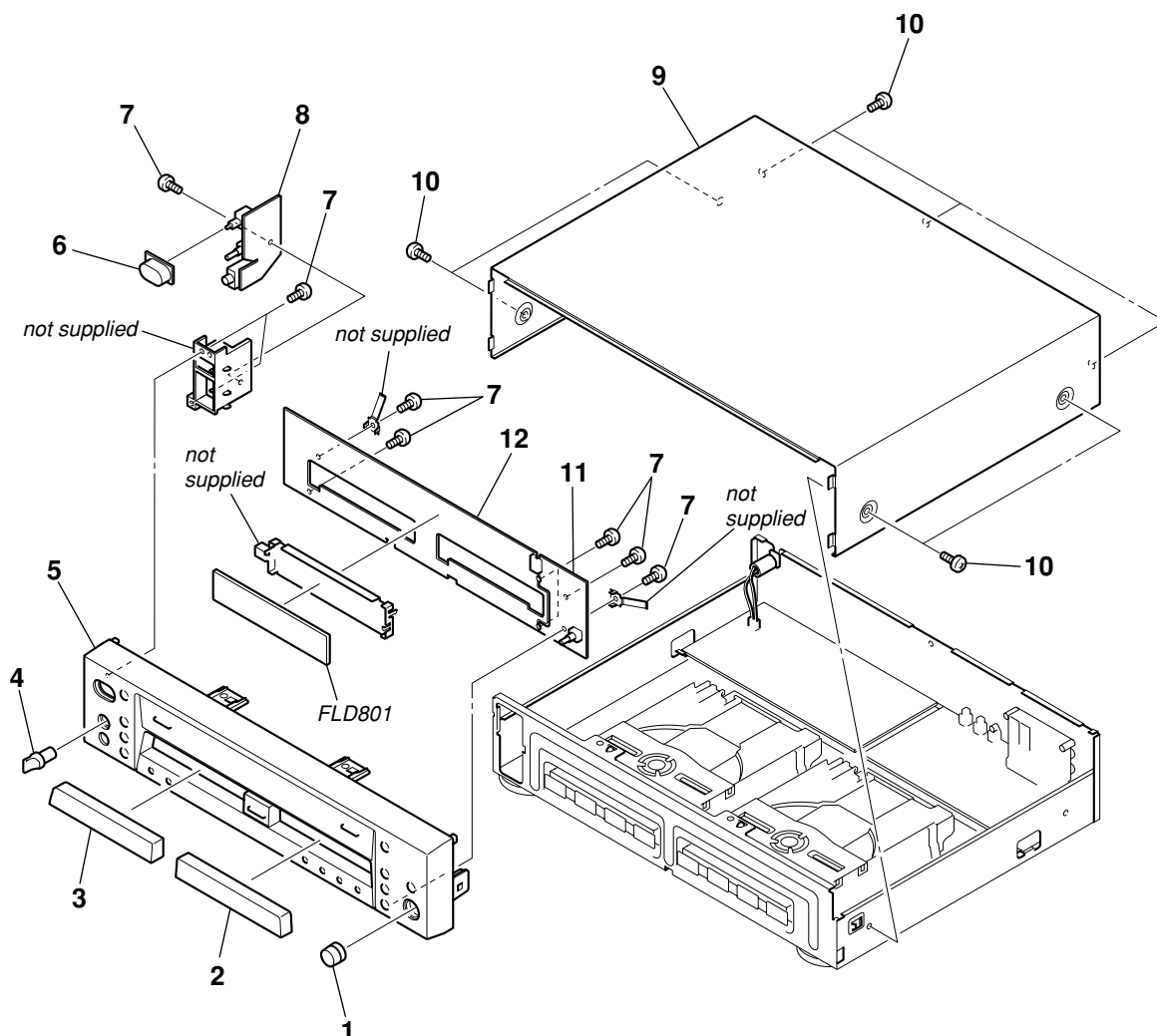
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded 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
MX : Mexican model

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

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

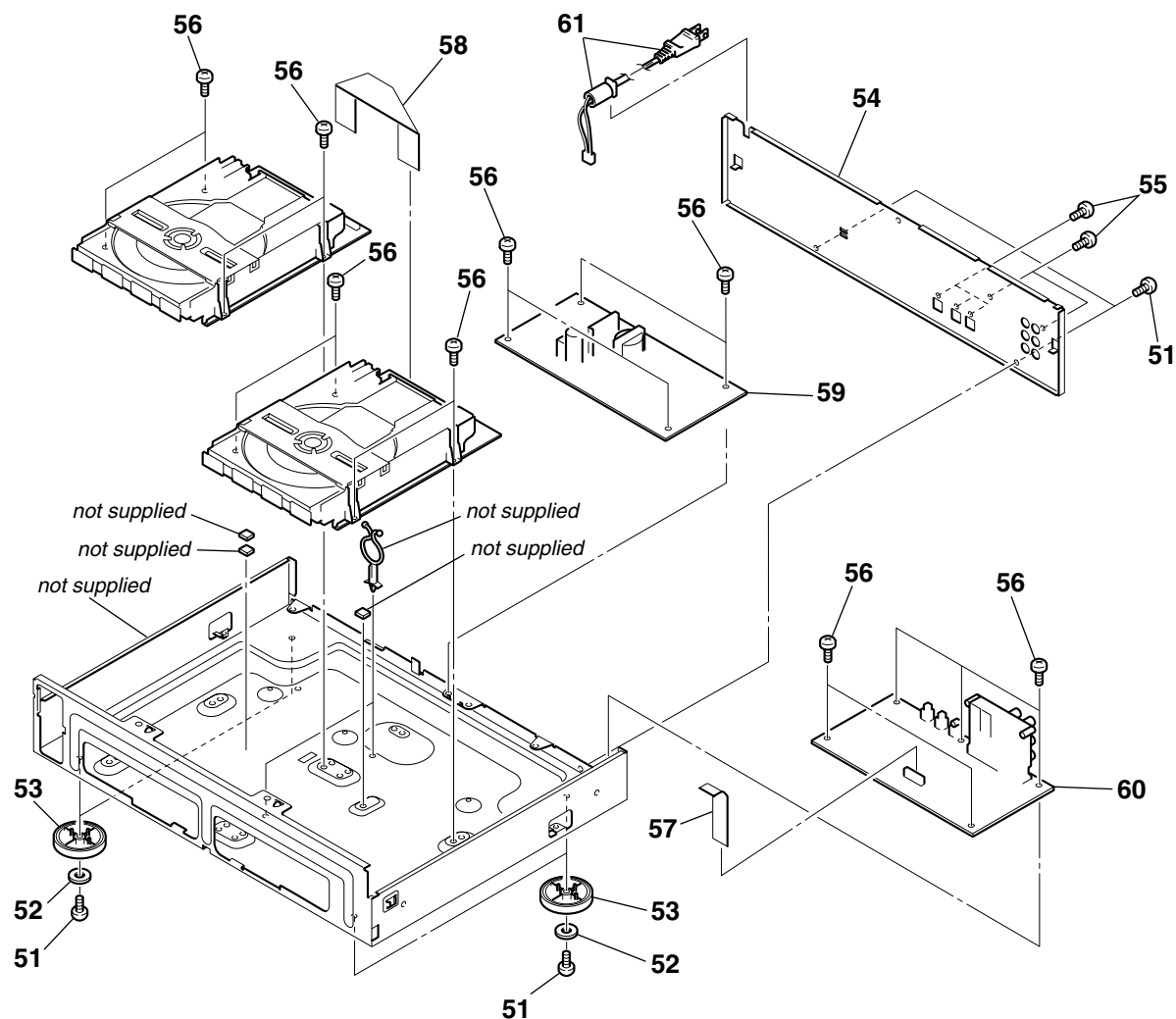
Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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		8	A-4726-177-A	HP BOARD,COMPLETE	
2	4-235-360-01	DOOR, TRAY (REC)		9	4-235-363-01	CASE, TOP	
3	4-235-359-01	DOOR, TRAY (PLAY)		10	4-235-383-01	SCREW (CASE)	
4	4-235-378-01	KNOB, P/VOLUME					
5	4-235-449-01	PANEL ASSY, FRONT		11	A-4726-178-A	VOL BOARD,COMPLETE	
				12	A-4726-179-A	FL BOARD,COMPLETE	
6	4-235-380-01	KNOB, POEWR		FLD801	1-518-766-11	INDICATOR TUBE, FLUORESCENT	
7	4-235-377-01	SCREW, SPECIAL					

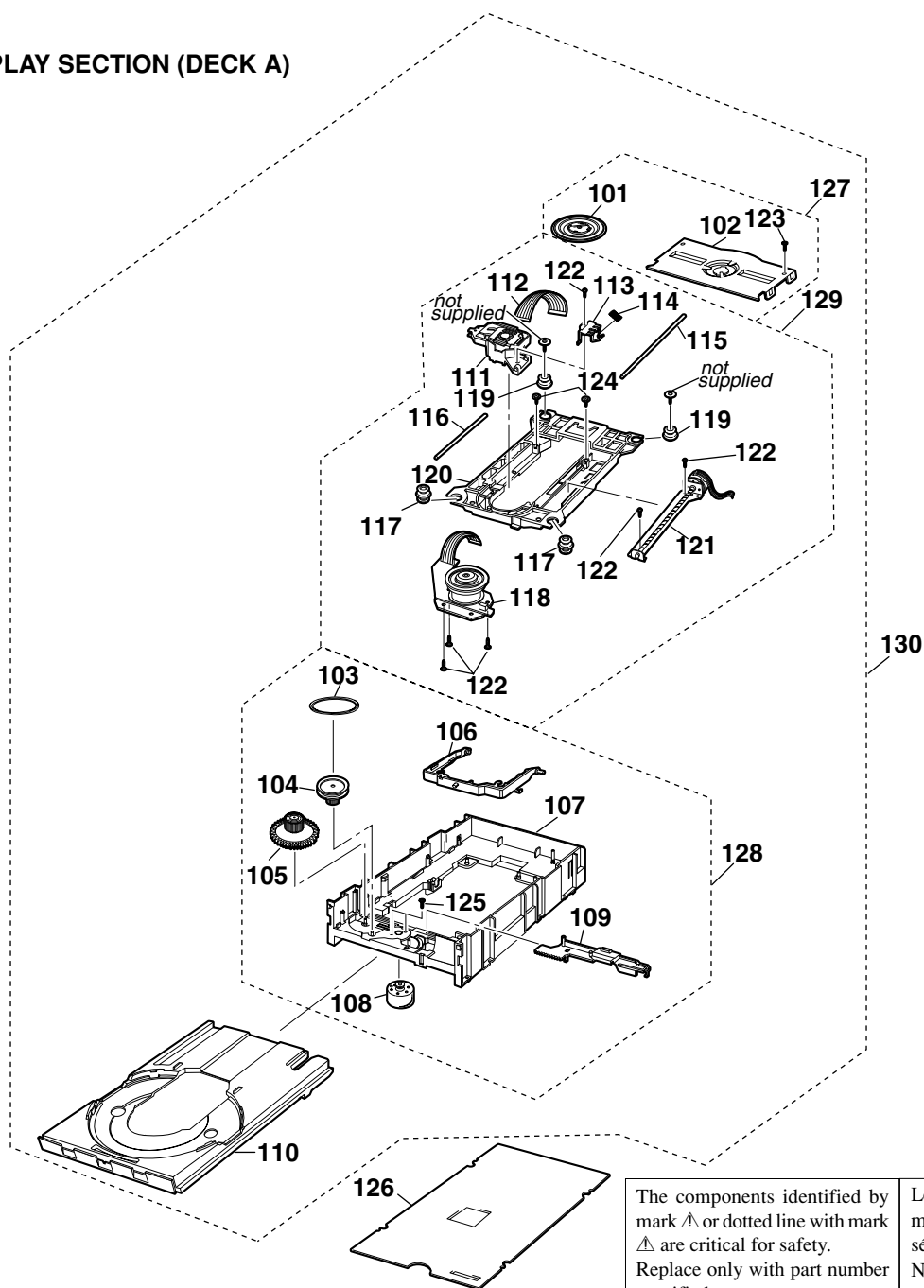
6-2. CHASSIS SECTION



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
51	4-235-403-01	SCREW, SPECIAL (3X8 BK)		58	1-823-104-11	WIRE (FLAT TYPE) (26 CORE)	
52	4-235-400-01	RUBBER, FOOT		59	A-4727-517-A	POWER BOARD,COMPLETE (E,MX)	
53	4-235-402-01	HOLDER, FOOT		59	A-4735-112-A	POWER BOARD,COMPLETE (CND,US)	
54	4-235-401-01	PANEL, BACK (E,MX,US)		60	A-4727-516-A	AUDIO BOARD,COMPLETE (E)	
54	4-235-401-11	PANEL, BACK (CND)		60	A-4727-519-A	AUDIO BOARD,COMPLETE (MX)	
55	4-235-362-01	SCREW SPECIAL (3X10)		60	A-4735-113-A	AUDIO BOARD,COMPLETE (CND,US)	
56	4-235-364-01	SCREW, SPECIAL		$\triangle$ 61	1-823-044-11	CORD, POWER (CND,US)	
57	1-823-105-11	WIRE (FLAT TYPE) (16 CORE)		$\triangle$ 61	1-823-333-11	CORD, POWER (E,MX)	

6-3. CD PLAY SECTION (DECK A)

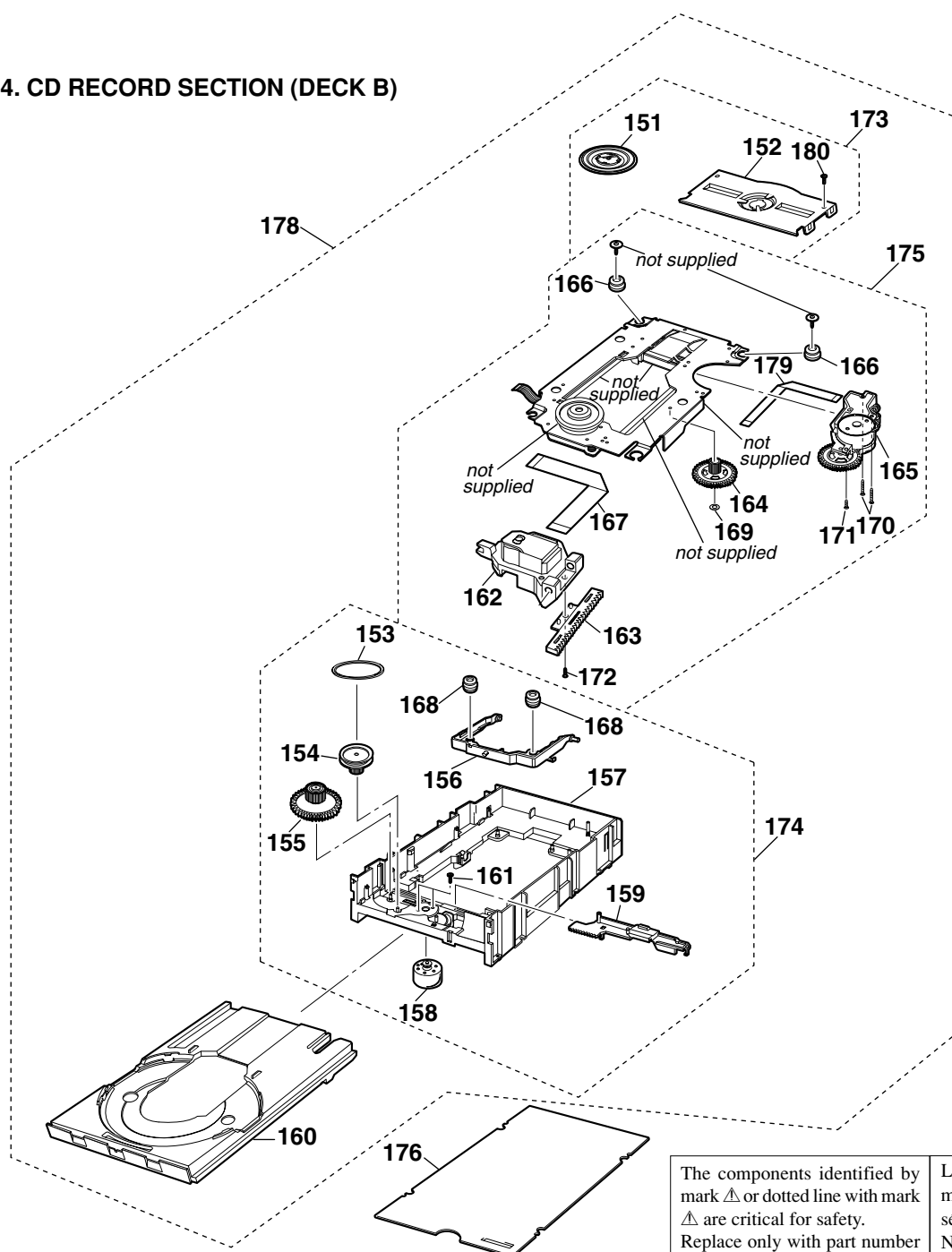


The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

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
101	4-235-453-01	CLAMP ASSY, DISC		116	4-235-415-01	SHAFT, L	
102	4-235-404-01	HOLDER, CLAMP		117	4-235-389-01	RUBBER, FRONT	
103	4-235-381-01	BELT		118	4-236-695-01	MOTOR ASSY, SPINDLE	
104	4-235-382-01	GEAR, PULLEY		119	4-235-390-01	RUBBER, REAR	
105	4-235-407-01	GEAR, LOADING		120	4-235-418-01	BASE, PU	
106	4-235-384-01	BASE, UP/DOWN		121	4-236-696-01	MOTOR ASSY, SLED	
107	4-235-386-01	BASE, MAIN		122	4-235-419-01	SCREW, 2X6	
108	4-235-454-01	MOTOR ASSY, LOADING		123	4-235-420-01	SCREW, 1.7X6	
109	4-235-387-01	GUIDE, UP/DOWN		124	4-235-421-01	SCREW, 1.7X5	
110	4-235-388-01	TRAY, DISC		125	4-235-391-01	SCREW, 1.7X4.5	
▲111	1-476-791-11	PICK-UP BLOCK		126	A-4726-180-A	BD BOARD, COMPLETE	
112	1-823-045-11	WIRE (FLAT TYPE) (17 CORE)		127	4-235-451-01	HOLDER ASSY, CLAMP	
113	4-235-412-01	GUIDE, FEED		128	4-235-450-01	MECHANISM ASSY, LOADING	
114	4-235-413-01	SPRING, FEED		129	4-235-460-01	MECHANISM ASSY	
115	4-235-414-01	SHAFT, R		130	A-4735-108-A	DECK ASSY (CDP)	

6-4. CD RECORD SECTION (DECK B)



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
151	4-235-453-01	CLAMP ASSY, DISC		166	4-235-390-01	RUBBER, REAR	
152	4-235-404-01	HOLDER, CLAMP		167	1-823-046-11	WIRE (FLAT TYPE) (32 CORE)	
153	4-235-381-01	BELT		168	4-235-389-01	RUBBER, FRONT	
154	4-235-382-01	GEAR, PULLEY		169	4-235-392-01	WASHER	
155	4-235-407-01	GEAR, LOADING		170	4-235-394-01	SCREW, 2.0X11.5	
156	4-235-384-01	BASE, UP/DOWN		171	4-235-393-01	SCREW, 2.0X4.5	
157	4-235-386-01	BASE, MAIN		172	4-235-395-01	SCREW, 1.7X3	
158	4-235-454-01	MOTOR ASSY, LOADING		173	4-235-451-01	HOLDER ASSY, CLAMP	
159	4-235-387-01	GUIDE, UP/DOWN		174	4-235-450-01	MECHANISM ASSY, LOADING	
160	4-235-388-01	TRAY, DISC		175	4-235-452-01	MECHANISM ASSY, PU	
161	4-235-391-01	SCREW, 1.7X4.5		176	A-4726-182-A	BD-R BOARD, COMPLETE	
▲162	1-476-792-11	OPTICAL PICK-UP (CD-R)		178	A-4735-110-A	DECK ASSY (CD-R)	
163	4-235-455-01	GEAR ASSY, RACK		179	1-823-103-11	WIRE (FLAT TYPE) 8P	
164	4-235-456-01	GEAR ASSY, PINION		180	4-235-420-01	SCREW, 1.7X6	
165	4-235-457-01	MECHANISM ASSY					

SECTION 7 ELECTRICAL PARTS LIST

AUDIO

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
MX : Mexican model

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-4727-516-A	AUDIO BOARD, COMPLETE (E)		C142	1-163-038-00	CERAMIC CHIP 0.1uF	25V
*	A-4727-519-A	AUDIO BOARD, COMPLETE (MX)		C143	1-163-038-00	CERAMIC CHIP 0.1uF	25V
*	A-4735-113-A	AUDIO BOARD, COMPLETE (US,CND)		C144	1-163-038-00	CERAMIC CHIP 0.1uF	25V

		< CAPACITOR >					
C101	1-126-947-11	ELECT 47uF 20%	35V	C145	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C102	1-163-275-11	CERAMIC CHIP 0.001uF 5%	50V	C202	1-126-933-11	ELECT 100uF	20% 16V
C103	1-126-963-11	ELECT 4.7uF 20%	50V	C203	1-163-139-00	CERAMIC CHIP 820PF	5% 50V
C104	1-163-275-11	CERAMIC CHIP 0.001uF 5%	50V	C204	1-126-947-11	ELECT 47uF 20%	35V
C105	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C205	1-126-947-11	ELECT 47uF 20%	35V
C106	1-126-947-11	ELECT 47uF 20%	35V	C206	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C108	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C207	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C109	1-163-021-11	CERAMIC CHIP 0.01uF 10%	50V	C208	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C110	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C209	1-126-935-11	ELECT 470uF 20%	6.3V
C114	1-126-965-11	ELECT 22uF 20%	50V	C210	1-104-665-11	ELECT 100uF 20%	10V
C115	1-126-965-11	ELECT 22uF 20%	50V	C211	1-104-665-11	ELECT 100uF 20%	10V
C116	1-126-965-11	ELECT 22uF 20%	50V	C212	1-126-933-11	ELECT 100uF 20%	16V
C117	1-126-965-11	ELECT 22uF 20%	50V	C213	1-115-419-11	CERAMIC CHIP 3300PF	5% 25V
C118	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C214	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C119	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C217	1-104-666-11	ELECT 220uF 20%	25V
C120	1-126-947-11	ELECT 47uF 20%	35V	C218	1-163-139-00	CERAMIC CHIP 820PF	5% 50V
C121	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C220	1-126-965-11	ELECT 22uF 20%	50V
C122	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C221	1-115-419-11	CERAMIC CHIP 3300PF	5% 25V
C123	1-126-947-11	ELECT 47uF 20%	35V	C222	1-115-419-11	CERAMIC CHIP 3300PF	5% 25V
C124	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C223	1-104-665-11	ELECT 100uF 20%	10V
C125	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C224	1-104-665-11	ELECT 100uF 20%	10V
C126	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C225	1-163-139-00	CERAMIC CHIP 820PF	5% 50V
C127	1-126-947-11	ELECT 47uF 20%	35V	C227	1-163-139-00	CERAMIC CHIP 820PF	5% 50V
C128	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C228	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C129	1-126-947-11	ELECT 47uF 20%	35V	C229	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C130	1-163-259-91	CERAMIC CHIP 220PF 5%	50V	C231	1-126-965-11	ELECT 22uF 20%	50V
C131	1-126-965-11	ELECT 22uF 20%	50V	C236	1-165-590-11	PETE FILM 0.0039uF	100V
C132	1-163-259-91	CERAMIC CHIP 220PF 5%	50V	C237	1-165-590-11	PETE FILM 0.0039uF	100V
C133	1-126-965-11	ELECT 22uF 20%	50V	C245	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C134	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C247	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C135	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C248	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C136	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C249	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C137	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C252	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C138	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C401	1-126-947-11	ELECT 47uF 20%	35V
C139	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C402	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C140	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C404	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C141	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C405	1-126-947-11	ELECT 47uF 20%	35V
				C406	1-126-935-11	ELECT 470uF 20%	6.3V
				C407	1-163-038-00	CERAMIC CHIP 0.1uF	25V
				C408	1-104-665-11	ELECT 100uF 20%	10V

AUDIO

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C409	1-104-665-11	ELECT	100uF	20%	10V	< TRANSISTOR >					
C411	1-126-933-11	ELECT	100uF	20%	16V						
C412	1-126-933-11	ELECT	100uF	20%	16V	Q202	8-729-036-89	TRANSISTOR	KTC3198GR-A		
C413	1-104-665-11	ELECT	100uF	20%	10V	Q204	8-729-016-64	TRANSISTOR	KTD1302		
C414	1-104-665-11	ELECT	100uF	20%	10V	Q205	8-729-037-16	TRANSISTOR	KRA103M-AT		
						Q206	8-729-036-89	TRANSISTOR	KTC3198GR-A		
C415	1-115-419-11	CERAMIC CHIP	3300PF	5%	25V	Q207	8-729-016-64	TRANSISTOR	KTD1302		
C416	1-163-139-00	CERAMIC CHIP	820PF	5%	50V						
C417	1-163-139-00	CERAMIC CHIP	820PF	5%	50V	Q208	8-729-016-64	TRANSISTOR	KTD1302		
C418	1-115-419-11	CERAMIC CHIP	3300PF	5%	25V	Q401	8-729-036-89	TRANSISTOR	KTC3198GR-A		
C419	1-163-139-00	CERAMIC CHIP	820PF	5%	50V	Q402	8-729-036-89	TRANSISTOR	KTC3198GR-A		
						Q403	8-729-016-64	TRANSISTOR	KTD1302		
C424	1-163-139-00	CERAMIC CHIP	820PF	5%	50V	Q404	8-729-016-64	TRANSISTOR	KTD1302		
C425	1-126-965-11	ELECT	22uF	20%	50V						
C426	1-126-965-11	ELECT	22uF	20%	50V	Q405	8-729-037-16	TRANSISTOR	KRA103M-AT		
C427	1-165-590-11	PETE FILM 0.0039uF				Q410	8-729-036-89	TRANSISTOR	KTC3198GR-A		
C428	1-165-590-11	PETE FILM 0.0039uF				Q411	8-729-036-89	TRANSISTOR	KTC3198GR-A		
						< RESISTOR >					
C429	1-163-259-91	CERAMIC CHIP	220PF	5%	50V						
C430	1-163-259-91	CERAMIC CHIP	220PF	5%	50V						
C471	1-126-933-11	ELECT	100uF	20%	16V	R101	1-216-017-00	RES-CHIP	47	5%	1/10W
C472	1-126-933-11	ELECT	100uF	20%	16V	R102	1-216-017-00	RES-CHIP	47	5%	1/10W
C473	1-163-038-00	CERAMIC CHIP	0.1uF		25V	R103	1-216-017-00	RES-CHIP	47	5%	1/10W
						R104	1-216-041-00	METAL CHIP	470	5%	1/10W
C474	1-163-038-00	CERAMIC CHIP	0.1uF		25V	R105	1-216-037-00	METAL CHIP	330	5%	1/10W
C476	1-163-038-00	CERAMIC CHIP	0.1uF		25V						
< IC >						R106	1-216-037-00	METAL CHIP	330	5%	1/10W
IC102	8-759-710-97	IC NJM4565M(TE2)				R107	1-216-037-00	METAL CHIP	330	5%	1/10W
IC103	8-759-710-97	IC NJM4565M(TE2)				R111	1-216-037-00	METAL CHIP	330	5%	1/10W
IC104	8-759-064-92	IC NJM5532M-D				R112	1-216-089-00	RES-CHIP	47K	5%	1/10W
IC105	8-759-650-48	IC AK4393VF-E2				R113	1-216-089-00	RES-CHIP	47K	5%	1/10W
IC106	8-759-644-49	IC 74HCU04D									
IC108	8-759-448-71	IC BU4053BCFV-E2				R114	1-216-089-00	RES-CHIP	47K	5%	1/10W
IC109	8-759-448-71	IC BU4053BCFV-E2				R115	1-216-089-00	RES-CHIP	47K	5%	1/10W
IC110	8-759-448-71	IC BU4053BCFV-E2				R116	1-216-073-00	RES-CHIP	10K	5%	1/10W
IC111	8-759-448-71	IC BU4053BCFV-E2				R117	1-216-295-00	SHORT	0		
IC112	6-700-345-01	IC AK5351				R118	1-216-073-00	RES-CHIP	10K	5%	1/10W
						R119	1-216-073-00	RES-CHIP	10K	5%	1/10W
IC401	8-759-650-48	IC AK4393VF-E2				R120	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
IC404	8-759-064-92	IC NJM5532M-D				R121	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
IC406	8-759-194-97	IC NJM4560MD				R124	1-216-073-00	RES-CHIP	10K	5%	1/10W
JK103	8-749-921-12	IC GP1F32T (OPTICAL CD OUT)				R125	1-216-073-00	RES-CHIP	10K	5%	1/10W
JK104	8-749-921-12	IC GP1F32T (OPTICAL CDR OUT)									
JK105	8-749-019-69	IC TORX178 (OPTICAL CDR IN)				R126	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
						R127	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
< JACK >						R128	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
JK101	1-815-706-11	JACK, PIN 6P (ANALOG IN/OUT)				R129	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
< COIL >						R132	1-216-081-00	METAL CHIP	22K	5%	1/10W
L103	1-400-091-21	INDUCTOR	0uH			R133	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
L104	1-400-091-21	INDUCTOR	0uH			R134	1-216-081-00	METAL CHIP	22K	5%	1/10W
< RELAY >						R135	1-216-009-00	RES-CHIP	22	5%	1/10W
LY402	1-755-443-11	RELAY				R136	1-216-009-00	RES-CHIP	22	5%	1/10W
< CONNECTOR >						R137	1-216-049-11	RES-CHIP	1K	5%	1/10W
PN105	1-784-375-21	CONNECTOR, FFC/FPC 16P				R138	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
* PN401	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P				R140	1-216-049-11	RES-CHIP	1K	5%	1/10W
						R141	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
						R142	1-216-025-11	RES-CHIP	100	5%	1/10W
						R143	1-216-009-00	RES-CHIP	22	5%	1/10W
						R144	1-216-009-00	RES-CHIP	22	5%	1/10W
						R145	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
						R146	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
						R147	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
						R201	1-216-073-00	RES-CHIP	10K	5%	1/10W
						R202	1-216-049-11	RES-CHIP	1K	5%	1/10W

AUDIO

BD

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R203	1-216-065-00	RES-CHIP	4.7K	5%	1/10W		R432	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	
R204	1-216-049-11	RES-CHIP	1K	5%	1/10W		R433	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R205	1-216-063-00	RES-CHIP	3.9K	5%	1/10W								
R206	1-216-073-00	RES-CHIP	10K	5%	1/10W		R434	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	
							R451	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R208	1-216-051-00	METAL CHIP	1.2K	5%	1/10W		R475	1-216-039-00	METAL CHIP	390	5%	1/10W	
R209	1-216-051-00	METAL CHIP	1.2K	5%	1/10W		R476	1-216-009-00	RES-CHIP	22	5%	1/10W	
R210	1-216-053-00	METAL CHIP	1.5K	5%	1/10W		R477	1-216-009-00	RES-CHIP	22	5%	1/10W	
R211	1-216-049-11	RES-CHIP	1K	5%	1/10W								
R212	1-216-049-11	RES-CHIP	1K	5%	1/10W		R478	1-216-039-00	METAL CHIP	390	5%	1/10W	
							R479	1-216-037-00	METAL CHIP	330	5%	1/10W	
R213	1-216-053-00	METAL CHIP	1.5K	5%	1/10W		R480	1-216-037-00	METAL CHIP	330	5%	1/10W	
R214	1-216-049-11	RES-CHIP	1K	5%	1/10W		R481	1-216-037-00	METAL CHIP	330	5%	1/10W	
R215	1-216-051-00	METAL CHIP	1.2K	5%	1/10W		R482	1-216-037-00	METAL CHIP	330	5%	1/10W	
R216	1-216-051-00	METAL CHIP	1.2K	5%	1/10W		*****						
R217	1-216-053-00	METAL CHIP	1.5K	5%	1/10W								
							A-4726-180-A BD BOARD, COMPLETE						

R218	1-216-077-00	METAL CHIP	15K	5%	1/10W		< CAPACITOR >						
R219	1-216-053-00	METAL CHIP	1.5K	5%	1/10W								
R222	1-216-049-11	RES-CHIP	1K	5%	1/10W		C101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
R223	1-216-049-11	RES-CHIP	1K	5%	1/10W		C102	1-128-590-11	ELECT CHIP	100uF	20%	6.3V	
R224	1-216-049-11	RES-CHIP	1K	5%	1/10W		C103	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	
							C104	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	
R225	1-216-077-00	METAL CHIP	15K	5%	1/10W		C105	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
R226	1-216-059-00	METAL CHIP	2.7K	5%	1/10W								
R228	1-216-049-11	RES-CHIP	1K	5%	1/10W		C106	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
R229	1-216-065-00	RES-CHIP	4.7K	5%	1/10W		C107	1-164-346-11	CERAMIC CHIP	1uF		16V	
R230	1-216-071-00	METAL CHIP	8.2K	5%	1/10W		C108	1-164-346-11	CERAMIC CHIP	1uF		16V	
							C111	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
R231	1-216-071-00	METAL CHIP	8.2K	5%	1/10W		C112	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
R236	1-216-041-00	METAL CHIP	470	5%	1/10W								
R237	1-216-041-00	METAL CHIP	470	5%	1/10W		C114	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
R238	1-216-049-11	RES-CHIP	1K	5%	1/10W		C115	1-104-607-11	ELECT CHIP	47uF	20%	16V	
R239	1-216-049-11	RES-CHIP	1K	5%	1/10W		C116	1-128-590-11	ELECT CHIP	100uF	20%	6.3V	
							C117	1-164-346-11	CERAMIC CHIP	1uF		16V	
R249	1-216-065-00	RES-CHIP	4.7K	5%	1/10W		C118	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	
R256	1-216-061-00	RES-CHIP	3.3K	5%	1/10W								
R264	1-216-009-00	RES-CHIP	22	5%	1/10W		C119	1-128-590-11	ELECT CHIP	100uF	20%	6.3V	
R266	1-216-057-00	METAL CHIP	2.2K	5%	1/10W		C120	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
R401	1-216-049-11	RES-CHIP	1K	5%	1/10W		C121	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	
							C122	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
R402	1-216-073-00	RES-CHIP	10K	5%	1/10W		C123	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	
R403	1-216-073-00	RES-CHIP	10K	5%	1/10W								
R404	1-216-073-00	RES-CHIP	10K	5%	1/10W		C201	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
R405	1-216-051-00	METAL CHIP	1.2K	5%	1/10W		C202	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	
R406	1-216-051-00	METAL CHIP	1.2K	5%	1/10W		C203	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
							C204	1-164-346-11	CERAMIC CHIP	1uF		16V	
R407	1-216-053-00	METAL CHIP	1.5K	5%	1/10W		C205	1-164-346-11	CERAMIC CHIP	1uF		16V	
R408	1-216-049-11	RES-CHIP	1K	5%	1/10W								
R413	1-216-049-11	RES-CHIP	1K	5%	1/10W		C206	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
R414	1-216-053-00	METAL CHIP	1.5K	5%	1/10W		C207	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
R415	1-216-051-00	METAL CHIP	1.2K	5%	1/10W		C208	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	
							C209	1-164-346-11	CERAMIC CHIP	1uF		16V	
R416	1-216-051-00	METAL CHIP	1.2K	5%	1/10W		C210	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
R417	1-216-049-11	RES-CHIP	1K	5%	1/10W								
R419	1-216-053-00	METAL CHIP	1.5K	5%	1/10W		C211	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
R420	1-216-053-00	METAL CHIP	1.5K	5%	1/10W		C212	1-164-346-11	CERAMIC CHIP	1uF		16V	
R421	1-216-049-11	RES-CHIP	1K	5%	1/10W		C213	1-216-803-11	METAL CHIP	33	5%	1/16W	
							C214	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
R422	1-216-049-11	RES-CHIP	1K	5%	1/10W		C215	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
R424	1-216-049-11	RES-CHIP	1K	5%	1/10W								
R425	1-216-049-11	RES-CHIP	1K	5%	1/10W		C216	1-164-217-11	CERAMIC CHIP	150PF	5%	50V	
R427	1-216-081-00	METAL CHIP	22K	5%	1/10W		C217	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	
R428	1-216-081-00	METAL CHIP	22K	5%	1/10W		C218	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	
							C219	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
R429	1-216-041-00	METAL CHIP	470	5%	1/10W		C220	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
R430	1-216-041-00	METAL CHIP	470	5%	1/10W								
R431	1-216-079-00	METAL CHIP	18K	5%	1/10W								

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C221	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	C704	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C222	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	C705	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C223	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C706	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C224	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C707	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C225	1-162-925-11	CERAMIC CHIP 68PF 5%	50V	C708	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C226	1-162-925-11	CERAMIC CHIP 68PF 5%	50V	C709	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C227	1-162-925-11	CERAMIC CHIP 68PF 5%	50V	C710	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C228	1-162-925-11	CERAMIC CHIP 68PF 5%	50V	C711	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C229	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C712	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C301	1-164-346-11	CERAMIC CHIP 1uF	16V	C713	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C302	1-126-394-11	ELECT CHIP 10uF 20%	16V	C714	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C303	1-164-346-11	CERAMIC CHIP 1uF	16V	C715	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C304	1-165-589-21	ELECT 220uF	6V	C719	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C306	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C720	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C308	1-164-346-11	CERAMIC CHIP 1uF	16V	C721	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C309	1-164-346-11	CERAMIC CHIP 1uF	16V	C722	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C310	1-164-670-11	CERAMIC CHIP 1200PF 5%	16V	C723	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C311	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C724	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C312	1-128-416-11	ELECT CHIP 100uF 20%	16V	C725	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C401	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C726	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C402	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C727	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C403	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C728	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C404	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C729	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C405	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C730	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C406	1-164-156-11	CERAMIC CHIP 0.1uF	25V			< DIODE >	
C407	1-164-156-11	CERAMIC CHIP 0.1uF	25V	D201	8-719-084-78	DIODE KDS121	
C408	1-164-156-11	CERAMIC CHIP 0.1uF	25V	D502	8-719-084-79	DIODE KDS187	
C409	1-164-156-11	CERAMIC CHIP 0.1uF	25V			< IC >	
C410	1-128-416-11	ELECT CHIP 100uF 20%	16V	IC101	8-752-089-73	IC CXA2581N	
C411	1-104-607-11	ELECT CHIP 47uF 20%	16V	IC201	6-700-349-01	IC OTI9790	
C412	1-164-156-11	CERAMIC CHIP 0.1uF	25V	IC301	6-700-343-01	IC M56788FP	
C414	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V	IC302	8-759-082-61	IC TC4W53FU(TE12R)	
C415	1-165-591-21	CERAMIC (SMD) 0.08uF	50V	IC401	6-700-344-01	IC LB1195H-TLM	
C416	1-165-591-21	CERAMIC (SMD) 0.08uF	50V	IC402	8-759-710-55	IC NJM2100M-TE1	
C417	1-165-319-11	CERAMIC CHIP 0.1uF	50V	IC403	8-759-710-55	IC NJM2100M-TE1	
C419	1-110-563-11	CERAMIC CHIP 0.068uF 10%	16V	IC501	6-800-236-01	IC HD64F3062AFBL-CD	
C421	1-165-319-11	CERAMIC CHIP 0.1uF	50V	IC502	6-700-342-01	IC XC61AN3002	
C423	1-126-394-11	ELECT CHIP 10uF 20%	16V	IC601	8-759-458-10	IC BA3939-E2	
C424	1-164-156-11	CERAMIC CHIP 0.1uF	25V	IC602	8-759-300-71	IC BU4053BCF	
C501	1-163-231-11	CERAMIC CHIP 15PF 5%	50V			< COIL >	
C502	1-163-231-11	CERAMIC CHIP 15PF 5%	50V	L203	1-400-090-21	INDUCTOR 0uH	
C504	1-128-590-11	ELECT CHIP 100uF 20%	6.3V	L401	1-412-058-11	INDUCTOR CHIP 10uH	
C505	1-164-156-11	CERAMIC CHIP 0.1uF	25V	L501	1-412-058-11	INDUCTOR CHIP 10uH	
C506	1-165-319-11	CERAMIC CHIP 0.1uF	50V			< CONNECTOR >	
C507	1-128-590-11	ELECT CHIP 100uF 20%	6.3V	PN201	1-784-376-11	CONNECTOR, FFC/FPC 17P	
C508	1-165-319-11	CERAMIC CHIP 0.1uF	50V	PN301	1-784-364-21	CONNECTOR, FFC/FPC 4P	
C509	1-164-156-11	CERAMIC CHIP 0.1uF	25V	PN401	1-793-989-21	CONNECTOR, FFC/FPC 13P	
C510	1-164-346-11	CERAMIC CHIP 1uF	16V	PN601	1-815-767-11	SOCKET, CONNECTOR 9P	
C511	1-165-319-11	CERAMIC CHIP 0.1uF	50V	PN602	1-815-766-11	SOCKET, CONNECTOR 8P	
C512	1-165-319-11	CERAMIC CHIP 0.1uF	50V	PN603	1-815-768-11	SOCKET, CONNECTOR 10P	
C513	1-165-319-11	CERAMIC CHIP 0.1uF	50V	PN604	1-815-765-11	SOCKET, CONNECTOR 6P	
C514	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	PN605	1-784-383-21	CONNECTOR, FFC/FPC 26P	
C602	1-165-319-11	CERAMIC CHIP 0.1uF	50V	PN606	1-815-768-11	SOCKET, CONNECTOR 10P	
C604	1-165-319-11	CERAMIC CHIP 0.1uF	50V				
C605	1-128-590-11	ELECT CHIP 100uF 20%	6.3V				
C701	1-164-156-11	CERAMIC CHIP 0.1uF	25V				
C702	1-164-156-11	CERAMIC CHIP 0.1uF	25V				
C703	1-164-156-11	CERAMIC CHIP 0.1uF	25V				

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
* PN609	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P				R239	1-216-809-11	METAL CHIP	100	5%	1/16W
		< TRANSISTOR >				R241	1-216-809-11	METAL CHIP	100	5%	1/16W
Q101	8-729-026-48	TRANSISTOR 2SA1037AK-T146-Q				R242	1-216-809-11	METAL CHIP	100	5%	1/16W
Q102	1-801-806-11	TRANSISTOR DTC144EKA				R301	1-216-842-11	METAL CHIP	56K	5%	1/16W
Q104	8-729-027-38	TRANSISTOR DTA144EKA-T146				R302	1-216-847-11	METAL CHIP	150K	5%	1/16W
Q105	1-801-806-11	TRANSISTOR DTC144EKA				R303	1-216-821-11	METAL CHIP	1K	5%	1/16W
Q401	8-729-056-33	TRANSISTOR KTD1304S				R304	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
						R305	1-216-845-11	METAL CHIP	100K	5%	1/16W
Q403	8-729-056-33	TRANSISTOR KTD1304S				R306	1-216-845-11	METAL CHIP	100K	5%	1/16W
		< RESISTOR >				R307	1-216-842-11	METAL CHIP	56K	5%	1/16W
R101	1-216-799-11	METAL CHIP	15	5%	1/16W	R308	1-216-847-11	METAL CHIP	150K	5%	1/16W
R102	1-216-799-11	METAL CHIP	15	5%	1/16W	R310	1-216-837-11	METAL CHIP	22K	5%	1/16W
R103	1-216-801-11	METAL CHIP	22	5%	1/16W	R311	1-216-809-11	METAL CHIP	100	5%	1/16W
R104	1-216-835-11	METAL CHIP	15K	5%	1/16W	R312	1-216-837-11	METAL CHIP	22K	5%	1/16W
R105	1-216-835-11	METAL CHIP	15K	5%	1/16W						
R106	1-216-864-11	METAL CHIP	0	5%	1/16W	R313	1-216-837-11	METAL CHIP	22K	5%	1/16W
R107	1-216-846-11	METAL CHIP	120K	5%	1/16W	R314	1-216-809-11	METAL CHIP	100	5%	1/16W
R108	1-216-848-11	METAL CHIP	180K	5%	1/16W	R315	1-216-838-11	METAL CHIP	27K	5%	1/16W
R113	1-216-821-11	METAL CHIP	1K	5%	1/16W	R316	1-216-837-11	METAL CHIP	22K	5%	1/16W
R122	1-216-839-11	METAL CHIP	33K	5%	1/16W	R317	1-216-837-11	METAL CHIP	22K	5%	1/16W
R124	1-216-833-11	METAL CHIP	10K	5%	1/16W	R318	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R125	1-216-833-11	METAL CHIP	10K	5%	1/16W	R319	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R126	1-216-833-11	METAL CHIP	10K	5%	1/16W	R402	1-216-841-11	METAL CHIP	47K	5%	1/16W
R127	1-216-845-11	METAL CHIP	100K	5%	1/16W	R403	1-216-809-11	METAL CHIP	100	5%	1/16W
R128	1-216-843-11	METAL CHIP	68K	5%	1/16W	R404	1-216-821-11	METAL CHIP	1K	5%	1/16W
R131	1-216-833-11	METAL CHIP	10K	5%	1/16W	R405	1-216-821-11	METAL CHIP	1K	5%	1/16W
R132	1-216-831-11	METAL CHIP	6.8K	5%	1/16W	R406	1-216-811-11	METAL CHIP	150	5%	1/16W
R133	1-216-833-11	METAL CHIP	10K	5%	1/16W	R407	1-216-811-11	METAL CHIP	150	5%	1/16W
R139	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R408	1-244-378-21	RES, CARBON (SND)	1		(3216)
R140	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R409	1-244-378-21	RES, CARBON (SND)	1		(3216)
R146	1-216-828-11	METAL CHIP	3.9K	5%	1/16W	R410	1-244-378-21	RES, CARBON (SND)	1		(3216)
R147	1-216-864-11	METAL CHIP	0	5%	1/16W	R411	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R148	1-216-864-11	METAL CHIP	0	5%	1/16W	R412	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R201	1-216-837-11	METAL CHIP	22K	5%	1/16W	R413	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R202	1-216-839-11	METAL CHIP	33K	5%	1/16W	R414	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R203	1-216-833-11	METAL CHIP	10K	5%	1/16W	R415	1-216-841-11	METAL CHIP	47K	5%	1/16W
R208	1-216-839-11	METAL CHIP	33K	5%	1/16W	R416	1-216-841-11	METAL CHIP	47K	5%	1/16W
R213	1-216-837-11	METAL CHIP	22K	5%	1/16W	R417	1-216-817-11	METAL CHIP	470	5%	1/16W
R214	1-216-833-11	METAL CHIP	10K	5%	1/16W	R418	1-216-837-11	METAL CHIP	22K	5%	1/16W
R216	1-216-839-11	METAL CHIP	33K	5%	1/16W	R419	1-216-840-11	METAL CHIP	39K	5%	1/16W
R217	1-216-843-11	METAL CHIP	68K	5%	1/16W	R421	1-216-833-11	METAL CHIP	10K	5%	1/16W
R218	1-216-847-11	METAL CHIP	150K	5%	1/16W	R422	1-216-838-11	METAL CHIP	27K	5%	1/16W
R222	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R423	1-216-833-11	METAL CHIP	10K	5%	1/16W
R223	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R424	1-216-835-11	METAL CHIP	15K	5%	1/16W
R224	1-216-833-11	METAL CHIP	10K	5%	1/16W	R425	1-216-833-11	METAL CHIP	10K	5%	1/16W
R227	1-216-839-11	METAL CHIP	33K	5%	1/16W	R426	1-216-833-11	METAL CHIP	10K	5%	1/16W
R228	1-216-833-11	METAL CHIP	10K	5%	1/16W	R427	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R229	1-216-845-11	METAL CHIP	100K	5%	1/16W	R428	1-216-821-11	METAL CHIP	1K	5%	1/16W
R230	1-216-809-11	METAL CHIP	100	5%	1/16W	R429	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R231	1-216-809-11	METAL CHIP	100	5%	1/16W	R430	1-216-833-11	METAL CHIP	10K	5%	1/16W
R232	1-216-806-11	RES-CHIP	56	5%	1/16W	R431	1-216-833-11	METAL CHIP	10K	5%	1/16W
R233	1-216-806-11	RES-CHIP	56	5%	1/16W	R433	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R234	1-216-817-11	METAL CHIP	470	5%	1/16W	R434	1-216-845-11	METAL CHIP	100K	5%	1/16W
R235	1-216-809-11	METAL CHIP	100	5%	1/16W	R435	1-216-843-11	METAL CHIP	68K	5%	1/16W
R236	1-216-809-11	METAL CHIP	100	5%	1/16W	R436	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R237	1-414-229-11	FERRITE	0UH			R437	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
						R501	1-216-815-11	METAL CHIP	330	5%	1/16W
						R502	1-216-809-11	METAL CHIP	100	5%	1/16W
						R503	1-216-809-11	METAL CHIP	100	5%	1/16W

RCD-W1

BD

BD-R

Ref. No.	Part No.	Description	Remark
R504	1-216-815-11	METAL CHIP 330 5%	1/16W
R505	1-216-815-11	METAL CHIP 330 5%	1/16W
R506	1-216-815-11	METAL CHIP 330 5%	1/16W
R507	1-216-809-11	METAL CHIP 100 5%	1/16W
R508	1-216-809-11	METAL CHIP 100 5%	1/16W
R509	1-216-809-11	METAL CHIP 100 5%	1/16W
R510	1-216-809-11	METAL CHIP 100 5%	1/16W
R511	1-216-833-11	METAL CHIP 10K 5%	1/16W
R512	1-216-815-11	METAL CHIP 330 5%	1/16W
R513	1-216-815-11	METAL CHIP 330 5%	1/16W
R514	1-216-821-11	METAL CHIP 1K 5%	1/16W
R515	1-216-821-11	METAL CHIP 1K 5%	1/16W
R516	1-216-821-11	METAL CHIP 1K 5%	1/16W
R517	1-216-821-11	METAL CHIP 1K 5%	1/16W
R518	1-216-815-11	METAL CHIP 330 5%	1/16W
R519	1-216-815-11	METAL CHIP 330 5%	1/16W
R520	1-216-821-11	METAL CHIP 1K 5%	1/16W
R521	1-216-821-11	METAL CHIP 1K 5%	1/16W
R522	1-216-827-11	METAL CHIP 3.3K 5%	1/16W
R523	1-216-833-11	METAL CHIP 10K 5%	1/16W
R524	1-216-817-11	METAL CHIP 470 5%	1/16W
R525	1-216-838-11	METAL CHIP 27K 5%	1/16W
R526	1-216-844-11	METAL CHIP 82K 5%	1/16W
R527	1-216-833-11	METAL CHIP 10K 5%	1/16W
R531	1-216-864-11	METAL CHIP 0 5%	1/16W
R532	1-216-833-11	METAL CHIP 10K 5%	1/16W
R533	1-216-827-11	METAL CHIP 3.3K 5%	1/16W
R535	1-216-815-11	METAL CHIP 330 5%	1/16W
R536	1-216-809-11	METAL CHIP 100 5%	1/16W
R537	1-216-809-11	METAL CHIP 100 5%	1/16W
R538	1-216-837-11	METAL CHIP 22K 5%	1/16W
R539	1-216-833-11	METAL CHIP 10K 5%	1/16W
R540	1-216-833-11	METAL CHIP 10K 5%	1/16W
R541	1-216-817-11	METAL CHIP 470 5%	1/16W
R542	1-216-817-11	METAL CHIP 470 5%	1/16W
R543	1-216-815-11	METAL CHIP 330 5%	1/16W
R544	1-216-809-11	METAL CHIP 100 5%	1/16W
R545	1-216-815-11	METAL CHIP 330 5%	1/16W
R546	1-216-815-11	METAL CHIP 330 5%	1/16W
R547	1-216-809-11	METAL CHIP 100 5%	1/16W
R548	1-216-815-11	METAL CHIP 330 5%	1/16W
R549	1-216-815-11	METAL CHIP 330 5%	1/16W
R550	1-216-815-11	METAL CHIP 330 5%	1/16W
R552	1-216-815-11	METAL CHIP 330 5%	1/16W
R554	1-216-864-11	METAL CHIP 0 5%	1/16W
R555	1-216-864-11	METAL CHIP 0 5%	1/16W
R556	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
R557	1-216-809-11	METAL CHIP 100 5%	1/16W
R558	1-216-809-11	METAL CHIP 100 5%	1/16W
R561	1-216-815-11	METAL CHIP 330 5%	1/16W
R562	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
R563	1-216-845-11	METAL CHIP 100K 5%	1/16W
R564	1-216-845-11	METAL CHIP 100K 5%	1/16W
R565	1-216-811-11	METAL CHIP 150 5%	1/16W
R566	1-216-853-11	METAL CHIP 470K 5%	1/16W
R567	1-216-809-11	METAL CHIP 100 5%	1/16W
R568	1-216-809-11	METAL CHIP 100 5%	1/16W

Ref. No.	Part No.	Description			Remark
R601	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R602	1-216-809-11	METAL CHIP	100	5%	1/16W
R603	1-216-809-11	METAL CHIP	100	5%	1/16W
R604	1-216-809-11	METAL CHIP	100	5%	1/16W
R605	1-216-809-11	METAL CHIP	100	5%	1/16W
R606	1-216-809-11	METAL CHIP	100	5%	1/16W
R607	1-216-809-11	METAL CHIP	100	5%	1/16W
R609	1-216-833-11	METAL CHIP	10K	5%	1/16W
R610	1-216-864-11	METAL CHIP	0	5%	1/16W
R611	1-216-864-11	METAL CHIP	0	5%	1/16W
		< SWITCH >			
SW001	1-786-204-11	SWITCH, DETECTION (OPEN/LOADING)			
		< VIBRATOR >			
X201	1-795-349-11	VIBRATOR, CRYSTAL (33.8688MHZ)			
X501	1-781-136-21	VIBRATOR, CERAMIC (20MHZ)			

	A-4726-182-A	BD-R BOARD, COMPLETE			

		< CAPACITOR >			
C101	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C102	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C103	1-131-651-21	TANTAL. CHIP	10uF	20%	16V
C105	1-128-416-11	ELECT CHIP	100uF	20%	16V
C106	1-165-589-21	ELECT	220uF		
C107	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C108	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C109	1-164-346-11	CERAMIC CHIP	1uF		16V
C110	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C111	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C112	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C113	1-128-416-11	ELECT CHIP	100uF	20%	16V
C114	1-128-416-11	ELECT CHIP	100uF	20%	16V
C201	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C202	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C204	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C206	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C207	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C208	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C209	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C210	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C211	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C212	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C213	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C214	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C215	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C216	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C217	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C218	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C220	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C221	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V
C222	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C223	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C224	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C225	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C226	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C404	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C227	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C405	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C228	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C406	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C229	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C232	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C407	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V
						C408	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C235	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C409	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C238	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C410	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C239	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V	C411	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C240	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C241	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V
						C413	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C242	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C414	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C243	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V	C415	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V
C301	1-165-319-11	CERAMIC CHIP	0.1uF		50V	C416	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V
C302	1-165-319-11	CERAMIC CHIP	0.1uF		50V						
C303	1-163-038-00	CERAMIC CHIP	0.1uF		25V	C417	1-164-156-11	CERAMIC CHIP	0.1uF		25V
						C418	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C304	1-163-038-00	CERAMIC CHIP	0.1uF		25V	C419	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C305	1-163-038-00	CERAMIC CHIP	0.1uF		25V	C420	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C306	1-163-038-00	CERAMIC CHIP	0.1uF		25V	C421	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C307	1-165-319-11	CERAMIC CHIP	0.1uF		50V						
C308	1-163-038-00	CERAMIC CHIP	0.1uF		25V	C422	1-164-156-11	CERAMIC CHIP	0.1uF		25V
						C423	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C309	1-163-038-00	CERAMIC CHIP	0.1uF		25V	C424	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V
C310	1-163-038-00	CERAMIC CHIP	0.1uF		25V	C425	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V
C311	1-163-038-00	CERAMIC CHIP	0.1uF		25V	C426	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V
C312	1-216-819-11	METAL CHIP	680	5%	1/16W						
C313	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C427	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
						C428	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C314	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C429	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C320	1-127-861-11	CERAMIC CHIP	2.2uF	10%	16V	C430	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C321	1-165-319-11	CERAMIC CHIP	0.1uF		50V	C431	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C322	1-127-861-11	CERAMIC CHIP	2.2uF	10%	16V						
C323	1-163-038-00	CERAMIC CHIP	0.1uF		25V	C432	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C433	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C325	1-216-820-11	METAL CHIP	820	5%	1/16W	C434	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C326	1-131-651-21	TANTAL. CHIP	10uF	20%	16V	C435	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C327	1-163-038-00	CERAMIC CHIP	0.1uF		25V	C437	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C329	1-163-038-00	CERAMIC CHIP	0.1uF		25V						
C330	1-127-861-11	CERAMIC CHIP	2.2uF	10%	16V	C438	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
						C439	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C331	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C440	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C332	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C441	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C333	1-165-591-21	CERAMIC (SMD)	0.08uF			C442	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C334	1-165-592-21	CERAMIC (SMD)	8200PF								
C335	1-127-861-11	CERAMIC CHIP	2.2uF	10%	16V	C443	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
						C445	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C336	1-165-319-11	CERAMIC CHIP	0.1uF		50V	C446	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C338	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C447	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C339	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C449	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C340	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						
C344	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	C451	1-164-156-11	CERAMIC CHIP	0.1uF		25V
						C453	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C345	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	C454	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V
C346	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C455	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V
C347	1-216-821-11	METAL CHIP	1K	5%	1/16W	C456	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C348	1-216-821-11	METAL CHIP	1K	5%	1/16W						
C349	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	C458	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
						C459	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C350	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	C460	1-131-651-21	TANTAL. CHIP	10uF	20%	16V
C351	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	C461	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C355	1-216-810-11	METAL CHIP	120	5%	1/16W	C462	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C356	1-164-156-11	CERAMIC CHIP	0.1uF		25V						
C401	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C463	1-131-651-21	TANTAL. CHIP	10uF	20%	16V
						C464	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C402	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	C466	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C403	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C467	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V
						C468	1-109-982-11	CERAMIC CHIP	1uF	10%	10V

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C469	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C601	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C470	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V	C602	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C471	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V	C603	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V
C473	1-128-416-11	ELECT CHIP	100uF	20%	16V						
C474	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	C604	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V
						C605	1-216-813-11	METAL CHIP	220	5%	1/16W
C475	1-162-912-11	CERAMIC CHIP	7PF	0.5PF	50V	C606	1-162-913-11	CERAMIC CHIP	8PF	0.50PF	50V
C476	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C607	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C477	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C608	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C478	1-162-908-11	CERAMIC CHIP	3PF	0.25PF	50V						
C479	1-162-908-11	CERAMIC CHIP	3PF	0.25PF	50V	C609	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V
						C701	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C480	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C702	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C481	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C704	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C482	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C705	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C501	1-164-156-11	CERAMIC CHIP	0.1uF		25V						
C503	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C706	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
						C707	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C504	1-128-416-11	ELECT CHIP	100uF	20%	16V	C708	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C505	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C709	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C506	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C710	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C507	1-163-018-00	CERAMIC CHIP	0.0056uF	5%	50V						
C508	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C712	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
						C713	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C509	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C714	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C510	1-163-018-00	CERAMIC CHIP	0.0056uF	5%	50V	C715	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C511	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C716	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C512	1-164-156-11	CERAMIC CHIP	0.1uF		25V						
C513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C721	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V
						C722	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V
C514	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V	C740	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C515	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V	C741	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C520	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	C743	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C521	1-164-005-11	CERAMIC CHIP	0.47uF		25V						
C522	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C750	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V
						C751	1-127-688-21	TANTAL. CHIP	10uF	20%	6.3V
C523	1-164-156-11	CERAMIC CHIP	0.1uF		25V	< CONNECTOR >					
C524	1-164-156-11	CERAMIC CHIP	0.1uF		25V	CN102	1-784-375-21	CONNECTOR, FFC/FPC 16P			
C525	1-164-156-11	CERAMIC CHIP	0.1uF		25V	CN401	1-815-764-11	CONNECTOR, FFC 32P			
C528	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	CN501	1-784-367-11	CONNECTOR, FFC/FPC 8P			
C529	1-131-651-21	TANTAL. CHIP	10uF	20%	16V	CN502	1-784-370-21	CONNECTOR, FFC/FPC 11P			
						* CN701	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
C530	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	< JUMPER RESISTOR >					
C531	1-164-346-11	CERAMIC CHIP	1uF		16V	CX32	1-216-864-11	METAL CHIP	0	5%	1/16W
C533	1-128-416-11	ELECT CHIP	100uF	20%	16V	CX33	1-216-864-11	METAL CHIP	0	5%	1/16W
C534	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	CX34	1-216-864-11	METAL CHIP	0	5%	1/16W
C535	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	< DIODE >					
						D101	8-719-084-79	DIODE KDS187			
C536	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	D401	8-719-084-78	DIODE KDS121			
C537	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D701	8-719-084-78	DIODE KDS121			
C538	1-128-416-11	ELECT CHIP	100uF	20%	16V	< IC >					
C540	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	IC101	6-700-342-01	IC XC61AN3002			
C541	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	IC102	8-759-476-20	IC BA033SFP-E2			
						IC103	8-759-458-10	IC BA3939-E2			
C543	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	IC201	6-700-349-01	IC OTI9790			
C544	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	IC203	8-759-486-65	IC GM71VS18163CLT-6			
C546	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C548	1-164-156-11	CERAMIC CHIP	0.1uF		25V	IC301	6-700-348-01	IC VC00S01			
C549	1-164-156-11	CERAMIC CHIP	0.1uF		25V	IC302	6-700-347-01	IC W2457AS-35			
						IC303	8-759-031-84	IC TC7S04F(TE85R)			
C550	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V						
C551	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V						
C552	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V						
C553	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C555	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C557	1-164-156-11	CERAMIC CHIP	0.1uF		25V						
C558	1-164-156-11	CERAMIC CHIP	0.1uF		25V						

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
IC304	8-759-300-71	IC BU4053BCF		R221	1-216-833-11	METAL CHIP 10K 5%	1/16W
IC306	6-700-346-01	IC CS8420-CSR		R227	1-216-864-11	METAL CHIP 0 5%	1/16W
IC307	8-759-300-71	IC BU4053BCF		R228	1-216-812-11	METAL CHIP 180 5%	1/16W
IC310	8-759-031-84	IC TC7S04F		R229	1-216-809-11	METAL CHIP 100 5%	1/16W
IC401	8-752-097-31	IC CXA2551AR		R230	1-216-809-11	METAL CHIP 100 5%	1/16W
IC403	8-759-058-45	IC NJM3403AV		R231	1-414-229-11	FERRITE 0UH	
IC404	8-759-338-95	IC NJM2903V(Te2)		R234	1-216-835-11	METAL CHIP 15K 5%	1/16W
IC405	8-759-387-26	IC BU4052BCFV-E2		R235	1-216-830-11	METAL CHIP 5.6K 5%	1/16W
IC406	8-759-545-66	IC NJM3414M		R236	1-216-821-11	METAL CHIP 1K 5%	1/16W
IC407	8-759-575-32	IC NC7SZ66P5X		R237	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
IC409	8-759-635-27	IC M62352GP-75E		R238	1-216-833-11	METAL CHIP 10K 5%	1/16W
IC411	8-759-058-43	IC NJM3404AV		R239	1-216-813-11	METAL CHIP 220 5%	1/16W
IC412	8-759-082-58	IC TC7W08FU(Te12R)		R240	1-216-839-11	METAL CHIP 33K 5%	1/16W
IC413	8-759-350-97	IC EL2245CS		R241	1-216-813-11	METAL CHIP 220 5%	1/16W
IC414	8-759-575-32	IC NC7SZ66P5X		R245	1-216-813-11	METAL CHIP 220 5%	1/16W
IC501	8-759-679-08	IC BA5983FM		R250	1-216-813-11	METAL CHIP 220 5%	1/16W
IC502	8-759-536-49	IC BA5925FV-E2		R251	1-216-813-11	METAL CHIP 220 5%	1/16W
IC508	8-759-448-71	IC BU4053BCFV-E2		R252	1-216-813-11	METAL CHIP 220 5%	1/16W
IC509	8-759-058-43	IC NJM3404AV		R253	1-216-813-11	METAL CHIP 220 5%	1/16W
IC510	8-759-588-60	IC BA6664FM-E2		R254	1-216-813-11	METAL CHIP 220 5%	1/16W
IC511	8-759-697-62	IC NJM7808DL1A(Te1)		R255	1-216-813-11	METAL CHIP 220 5%	1/16W
IC512	8-759-697-62	IC NJM7808DL1A(Te1)		R256	1-216-813-11	METAL CHIP 220 5%	1/16W
IC514	8-759-545-66	IC NJM3414M		R257	1-216-813-11	METAL CHIP 220 5%	1/16W
IC601	6-700-341-01	IC CST0100C		R259	1-216-841-11	METAL CHIP 47K 5%	1/16W
IC701	6-800-235-01	IC HD64F3062AFBL-CDR		R260	1-216-835-11	METAL CHIP 15K 5%	1/16W
IC702	8-759-466-52	IC CAT93C86S-LE10		R261	1-216-864-11	METAL CHIP 0 5%	1/16W
< COIL >				R262	1-216-864-11	METAL CHIP 0 5%	1/16W
L103	1-400-090-21	INDUCTOR 0uH		R263	1-216-864-11	METAL CHIP 0 5%	1/16W
L202	1-412-058-11	INDUCTOR CHIP 10uH		R264	1-216-864-11	METAL CHIP 0 5%	1/16W
L301	1-400-090-21	INDUCTOR 0uH		R265	1-216-864-11	METAL CHIP 0 5%	1/16W
L302	1-412-058-11	INDUCTOR CHIP 10uH		R266	1-216-864-11	METAL CHIP 0 5%	1/16W
L306	1-412-058-11	INDUCTOR CHIP 10uH		R267	1-216-864-11	METAL CHIP 0 5%	1/16W
L308	1-412-058-11	INDUCTOR CHIP 10uH		R268	1-216-864-11	METAL CHIP 0 5%	1/16W
L401	1-412-058-11	INDUCTOR CHIP 10uH		R269	1-216-864-11	METAL CHIP 0 5%	1/16W
L402	1-412-058-11	INDUCTOR CHIP 10uH		R270	1-164-156-11	CERAMIC CHIP 0.1uF	25V
L403	1-412-058-11	INDUCTOR CHIP 10uH		R305	1-162-926-11	CERAMIC CHIP 82PF 5%	50V
L701	1-412-058-11	INDUCTOR CHIP 10uH		R306	1-216-813-11	METAL CHIP 220 5%	1/16W
< CONNECTOR >				R307	1-216-813-11	METAL CHIP 220 5%	1/16W
PN105	1-815-765-11	SOCKET, CONNECTOR 6P		R308	1-216-813-11	METAL CHIP 220 5%	1/16W
PN201	1-815-765-11	SOCKET, CONNECTOR 6P		R310	1-216-817-11	METAL CHIP 470 5%	1/16W
PN605	1-784-383-21	CONNECTOR, FFC/FPC 26P		R320	1-216-833-11	METAL CHIP 10K 5%	1/16W
< TRANSISTOR >				R322	1-216-813-11	METAL CHIP 220 5%	1/16W
Q401	1-801-806-11	TRANSISTOR DTC144EKA		R323	1-216-816-11	METAL CHIP 390 5%	1/16W
Q402	1-801-806-11	TRANSISTOR DTC144EKA		R325	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
Q403	1-801-806-11	TRANSISTOR DTC144EKA		R327	1-216-833-11	METAL CHIP 10K 5%	1/16W
Q404	1-801-806-11	TRANSISTOR DTC144EKA		R335	1-216-817-11	METAL CHIP 470 5%	1/16W
Q405	1-801-806-11	TRANSISTOR DTC144EKA		R336	1-216-818-11	METAL CHIP 560 5%	1/16W
< RESISTOR >				R337	1-216-833-11	METAL CHIP 10K 5%	1/16W
R101	1-216-838-11	METAL CHIP 27K 5%	1/16W	R355	1-216-841-11	METAL CHIP 47K 5%	1/16W
R102	1-216-844-11	METAL CHIP 82K 5%	1/16W	R364	1-216-813-11	METAL CHIP 220 5%	1/16W
R103	1-216-833-11	METAL CHIP 10K 5%	1/16W	R365	1-216-813-11	METAL CHIP 220 5%	1/16W
R104	1-216-864-11	METAL CHIP 0 5%	1/16W	R366	1-216-815-11	METAL CHIP 330 5%	1/16W
R219	1-216-833-11	METAL CHIP 10K 5%	1/16W	R367	1-216-821-11	METAL CHIP 1K 5%	1/16W
R220	1-216-833-11	METAL CHIP 10K 5%	1/16W	R368	1-216-809-11	METAL CHIP 100 5%	1/16W
				R369	1-216-809-11	METAL CHIP 100 5%	1/16W
				R370	1-216-809-11	METAL CHIP 100 5%	1/16W
				R371	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
				R373	1-216-813-11	METAL CHIP 220 5%	1/16W

RCD-W1

BD-R

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R374	1-216-813-11	METAL CHIP	220	5%	1/16W		R456	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
R375	1-216-815-11	METAL CHIP	330	5%	1/16W		R457	1-216-819-11	METAL CHIP	680	5%	1/16W	
R376	1-216-813-11	METAL CHIP	220	5%	1/16W		R458	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R377	1-216-813-11	METAL CHIP	220	5%	1/16W		R460	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R378	1-216-813-11	METAL CHIP	220	5%	1/16W		R465	1-216-819-11	METAL CHIP	680	5%	1/16W	
R380	1-216-813-11	METAL CHIP	220	5%	1/16W		R466	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	
R382	1-216-819-11	METAL CHIP	680	5%	1/16W		R467	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R385	1-216-864-11	METAL CHIP	0	5%	1/16W		R469	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	
R386	1-216-857-11	METAL CHIP	1M	5%	1/16W		R471	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R387	1-216-813-11	METAL CHIP	220	5%	1/16W		R472	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R388	1-414-229-11	FERRITE	0UH				R473	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R390	1-216-864-11	METAL CHIP	0	5%	1/16W		R474	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R401	1-216-864-11	METAL CHIP	0	5%	1/16W		R475	1-216-844-11	METAL CHIP	82K	5%	1/16W	
R403	1-216-864-11	METAL CHIP	0	5%	1/16W		R476	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R404	1-216-821-11	METAL CHIP	1K	5%	1/16W		R477	1-216-864-11	METAL CHIP	0	5%	1/16W	
R405	1-216-809-11	METAL CHIP	100	5%	1/16W		R481	1-216-819-11	METAL CHIP	680	5%	1/16W	
R406	1-216-838-11	METAL CHIP	27K	5%	1/16W		R483	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R407	1-216-838-11	METAL CHIP	27K	5%	1/16W		R487	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R409	1-216-809-11	METAL CHIP	100	5%	1/16W		R488	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R410	1-216-843-11	METAL CHIP	68K	5%	1/16W		R489	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R411	1-216-843-11	METAL CHIP	68K	5%	1/16W		R490	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R413	1-216-857-11	METAL CHIP	1M	5%	1/16W		R492	1-216-864-11	METAL CHIP	0	5%	1/16W	
R414	1-216-833-11	METAL CHIP	10K	5%	1/16W		R493	1-216-819-11	METAL CHIP	680	5%	1/16W	
R415	1-216-833-11	METAL CHIP	10K	5%	1/16W		R494	1-216-819-11	METAL CHIP	680	5%	1/16W	
R416	1-216-833-11	METAL CHIP	10K	5%	1/16W		R495	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R417	1-216-833-11	METAL CHIP	10K	5%	1/16W		R496	1-216-819-11	METAL CHIP	680	5%	1/16W	
R418	1-216-835-11	METAL CHIP	15K	5%	1/16W		R497	1-216-819-11	METAL CHIP	680	5%	1/16W	
R419	1-216-830-11	METAL CHIP	5.6K	5%	1/16W		R502	1-216-809-11	METAL CHIP	100	5%	1/16W	
R420	1-216-821-11	METAL CHIP	1K	5%	1/16W		R503	1-216-864-11	METAL CHIP	0	5%	1/16W	
R422	1-216-827-11	METAL CHIP	3.3K	5%	1/16W		R508	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R423	1-216-839-11	METAL CHIP	33K	5%	1/16W		R515	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R424	1-216-835-11	METAL CHIP	15K	5%	1/16W		R516	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R425	1-216-827-11	METAL CHIP	3.3K	5%	1/16W		R517	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
R426	1-216-839-11	METAL CHIP	33K	5%	1/16W		R518	1-216-844-11	METAL CHIP	82K	5%	1/16W	
R427	1-216-841-11	METAL CHIP	47K	5%	1/16W		R519	1-216-831-11	METAL CHIP	6.8K	5%	1/16W	
R428	1-216-864-11	METAL CHIP	0	5%	1/16W		R520	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R429	1-216-833-11	METAL CHIP	10K	5%	1/16W		R521	1-216-840-11	METAL CHIP	39K	5%	1/16W	
R430	1-216-864-11	METAL CHIP	0	5%	1/16W		R522	1-216-851-11	METAL CHIP	330K	5%	1/16W	
R431	1-216-841-11	METAL CHIP	47K	5%	1/16W		R523	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R432	1-216-841-11	METAL CHIP	47K	5%	1/16W		R524	1-216-840-11	METAL CHIP	39K	5%	1/16W	
R433	1-216-841-11	METAL CHIP	47K	5%	1/16W		R525	1-216-853-11	METAL CHIP	470K	5%	1/16W	
R434	1-216-864-11	METAL CHIP	0	5%	1/16W		R553	1-216-809-11	METAL CHIP	100	5%	1/16W	
R435	1-216-821-11	METAL CHIP	1K	5%	1/16W		R554	1-216-809-11	METAL CHIP	100	5%	1/16W	
R436	1-216-821-11	METAL CHIP	1K	5%	1/16W		R556	1-216-843-11	METAL CHIP	68K	5%	1/16W	
R437	1-216-839-11	METAL CHIP	33K	5%	1/16W		R557	1-216-850-11	METAL CHIP	270K	5%	1/16W	
R438	1-216-837-11	METAL CHIP	22K	5%	1/16W		R558	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R441	1-216-851-11	METAL CHIP	330K	5%	1/16W		R560	1-216-864-11	METAL CHIP	0	5%	1/16W	
R442	1-216-817-11	METAL CHIP	470	5%	1/16W		R563	1-217-907-11	RES-CHIP	1.8	5%	1/10W	
R445	1-216-827-11	METAL CHIP	3.3K	5%	1/16W		R564	1-217-907-11	RES-CHIP	1.8	5%	1/10W	
R446	1-216-864-11	METAL CHIP	0	5%	1/16W		R565	1-217-907-11	RES-CHIP	1.8	5%	1/10W	
R448	1-216-821-11	METAL CHIP	1K	5%	1/16W		R567	1-216-848-11	METAL CHIP	180K	5%	1/16W	
R449	1-216-864-11	METAL CHIP	0	5%	1/16W		R568	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R451	1-216-815-11	METAL CHIP	330	5%	1/16W		R569	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R452	1-216-822-11	METAL CHIP	1.2K	5%	1/16W		R570	1-216-864-11	METAL CHIP	0	5%	1/16W	
R453	1-216-827-11	METAL CHIP	3.3K	5%	1/16W		R572	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R454	1-216-833-11	METAL CHIP	10K	5%	1/16W		R573	1-216-838-11	METAL CHIP	27K	5%	1/16W	
R455	1-216-817-11	METAL CHIP	470	5%	1/16W		R574	1-216-797-11	METAL CHIP	10	5%	1/16W	

BD-R

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Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R575	1-216-837-11	METAL CHIP	22K	5%	1/16W	R741	1-216-833-11	METAL CHIP	10K	5%	1/16W
R576	1-216-797-11	METAL CHIP	10	5%	1/16W	R742	1-216-817-11	METAL CHIP	470	5%	1/16W
R577	1-216-837-11	METAL CHIP	22K	5%	1/16W	R743	1-216-833-11	METAL CHIP	10K	5%	1/16W
R578	1-216-838-11	METAL CHIP	27K	5%	1/16W	R744	1-216-809-11	METAL CHIP	100	5%	1/16W
R579	1-216-837-11	METAL CHIP	22K	5%	1/16W	R745	1-216-809-11	METAL CHIP	100	5%	1/16W
R580	1-216-797-11	METAL CHIP	10	5%	1/16W	R746	1-216-809-11	METAL CHIP	100	5%	1/16W
R581	1-216-797-11	METAL CHIP	10	5%	1/16W	R747	1-216-809-11	METAL CHIP	100	5%	1/16W
R582	1-216-833-11	METAL CHIP	10K	5%	1/16W	R748	1-216-809-11	METAL CHIP	100	5%	1/16W
R583	1-216-833-11	METAL CHIP	10K	5%	1/16W	< NETWORK RESISTOR >					
R584	1-216-831-11	METAL CHIP	6.8K	5%	1/16W	RA301	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R585	1-216-833-11	METAL CHIP	10K	5%	1/16W	RA302	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R586	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	RA303	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R587	1-216-833-11	METAL CHIP	10K	5%	1/16W	RA304	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R590	1-216-833-11	METAL CHIP	10K	5%	1/16W	RA305	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R592	1-216-853-11	METAL CHIP	470K	5%	1/16W	RA306	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R601	1-216-813-11	METAL CHIP	220	5%	1/16W	RA701	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R602	1-216-813-11	METAL CHIP	220	5%	1/16W	RA702	1-239-416-11	NETWORK RESISTOR (CHIP)	220		
R603	1-216-813-11	METAL CHIP	220	5%	1/16W	< SWITCH >					
R604	1-216-813-11	METAL CHIP	220	5%	1/16W	SW701	1-786-204-11	SWITCH, DETECTION (OPEN/LOADING)			
R605	1-216-813-11	METAL CHIP	220	5%	1/16W	< VIBRATOR >					
R607	1-216-815-11	METAL CHIP	330	5%	1/16W	X301	1-795-349-11	VIBRATOR, CRYSTAL (33.8688MHz)			
R608	1-216-813-11	METAL CHIP	220	5%	1/16W	X701	1-781-136-21	VIBRATOR, CERAMIC (20MHz)			
R609	1-216-812-11	METAL CHIP	180	5%	1/16W	*****					
R610	1-216-815-11	METAL CHIP	330	5%	1/16W	A-4726-179-A	FL BOARD, COMPLETE				
R611	1-216-864-11	METAL CHIP	0	5%	1/16W	*****					
R612	1-216-813-11	METAL CHIP	220	5%	1/16W	< CAPACITOR >					
R613	1-216-813-11	METAL CHIP	220	5%	1/16W	C801	1-164-159-11	CERAMIC	0.1uF		50V
R619	1-216-813-11	METAL CHIP	220	5%	1/16W	C802	1-164-159-11	CERAMIC	0.1uF		50V
R620	1-216-813-11	METAL CHIP	220	5%	1/16W	C804	1-126-933-11	ELECT	100uF	20%	16V
R627	1-216-864-11	METAL CHIP	0	5%	1/16W	C805	1-161-494-00	CERAMIC	0.022uF		25V
R701	1-216-811-11	METAL CHIP	150	5%	1/16W	C806	1-161-494-00	CERAMIC	0.022uF		25V
R702	1-216-853-11	METAL CHIP	470K	5%	1/16W	C807	1-161-494-00	CERAMIC	0.022uF		25V
R703	1-216-805-11	METAL CHIP	47	5%	1/16W	C810	1-164-159-11	CERAMIC	0.1uF		50V
R704	1-216-805-11	METAL CHIP	47	5%	1/16W	C811	1-162-282-31	CERAMIC	100PF	10%	50V
R705	1-216-805-11	METAL CHIP	47	5%	1/16W	C812	1-162-282-31	CERAMIC	100PF	10%	50V
R706	1-216-805-11	METAL CHIP	47	5%	1/16W	C813	1-162-282-31	CERAMIC	100PF	10%	50V
R707	1-216-805-11	METAL CHIP	47	5%	1/16W	C816	1-162-211-31	CERAMIC	33PF	5%	50V
R708	1-216-805-11	METAL CHIP	47	5%	1/16W	C817	1-162-211-31	CERAMIC	33PF	5%	50V
R709	1-216-805-11	METAL CHIP	47	5%	1/16W	C818	1-164-159-11	CERAMIC	0.1uF		50V
R710	1-216-805-11	METAL CHIP	47	5%	1/16W	C820	1-164-159-11	CERAMIC	0.1uF		50V
R711	1-216-805-11	METAL CHIP	47	5%	1/16W	C821	1-164-159-11	CERAMIC	0.1uF		50V
R712	1-216-833-11	METAL CHIP	10K	5%	1/16W	C822	1-164-159-11	CERAMIC	0.1uF		50V
R713	1-216-809-11	METAL CHIP	100	5%	1/16W	C823	1-164-159-11	CERAMIC	0.1uF		50V
R714	1-216-809-11	METAL CHIP	100	5%	1/16W	C826	1-164-159-11	CERAMIC	0.1uF		50V
R715	1-216-833-11	METAL CHIP	10K	5%	1/16W	< CONNECTOR >					
R716	1-216-821-11	METAL CHIP	1K	5%	1/16W	* CN803	1-695-823-11	CONNECTOR, BOARD TO BOARD 8P			
R717	1-216-821-11	METAL CHIP	1K	5%	1/16W	< FLUORESCENT DISPLAY >					
R718	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	FLD801	1-518-766-11	INDICATOR TUBE, FLUORESCENT			
R719	1-216-809-11	METAL CHIP	100	5%	1/16W						
R720	1-216-809-11	METAL CHIP	100	5%	1/16W						
R721	1-216-805-11	METAL CHIP	47	5%	1/16W						
R726	1-216-825-11	METAL CHIP	2.2K	5%	1/16W						
R727	1-216-825-11	METAL CHIP	2.2K	5%	1/16W						
R728	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R729	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R738	1-216-809-11	METAL CHIP	100	5%	1/16W						
R740	1-216-817-11	METAL CHIP	470	5%	1/16W						

RCD-W1

FL

HP

POWER

Ref. No.	Part No.	Description	Remark			
< IC >						
IC801	6-800-228-01	IC uPD780232GC-LG1				
IC802	8-759-971-11	IC KIA7042P-TP				
< RESISTOR >						
R803	1-247-843-11	CARBON	3.3K	5%	1/4W	
R804	1-249-424-11	CARBON	3.9K	5%	1/4W	F
R807	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R808	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R809	1-247-843-11	CARBON	3.3K	5%	1/4W	
R810	1-249-424-11	CARBON	3.9K	5%	1/4W	F
R811	1-249-426-11	CARBON	5.6K	5%	1/4W	
R812	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R813	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R814	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R815	1-247-843-11	CARBON	3.3K	5%	1/4W	
R816	1-249-424-11	CARBON	3.9K	5%	1/4W	F
R817	1-249-426-11	CARBON	5.6K	5%	1/4W	
R818	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R819	1-249-431-11	CARBON	15K	5%	1/4W	
R820	1-249-432-11	CARBON	18K	5%	1/4W	
R821	1-249-432-11	CARBON	18K	5%	1/4W	
R822	1-249-432-11	CARBON	18K	5%	1/4W	
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
R846	1-249-425-11	CARBON	4.7K	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	
R850	1-249-437-11	CARBON	47K	5%	1/4W	
R851	1-249-437-11	CARBON	47K	5%	1/4W	
< INFRARED RECEIVER >						
RMC801	8-749-016-29	IC RPM6938				
< SWITCH >						
SW803	1-762-875-21	SWITCH, KEYBOARD (AMS ◀◀◀)				
SW804	1-762-875-21	SWITCH, KEYBOARD (AMS ▶▶▶)				
SW808	1-762-875-21	SWITCH, KEYBOARD (CD SYNCHRO HIGH)				
SW810	1-762-875-21	SWITCH, KEYBOARD (INPUT)				
SW811	1-762-875-21	SWITCH, KEYBOARD (CD SYNCHRO NORMAL)				
SW812	1-762-875-21	SWITCH, KEYBOARD (ERASE)				
SW813	1-762-875-21	SWITCH, KEYBOARD (FINALIZE)				
SW814	1-762-875-21	SWITCH, KEYBOARD (TIME)				
SW815	1-762-875-21	SWITCH, KEYBOARD (OPEN/CLOSE ☰)				
SW816	1-762-875-21	SWITCH, KEYBOARD (TIME)				
SW817	1-762-875-21	SWITCH, KEYBOARD (AMS ◀◀◀)				
SW818	1-762-875-21	SWITCH, KEYBOARD (AMS ▶▶▶)				
SW819	1-762-875-21	SWITCH, KEYBOARD (RELAY)				
SW820	1-762-875-21	SWITCH, KEYBOARD (■)				
SW821	1-762-875-21	SWITCH, KEYBOARD (▷)				
SW822	1-762-875-21	SWITCH, KEYBOARD (■)				
76	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			
< VIBRATOR >						
X801	1-795-348-11	VIBRATOR, CRYSTAL (5MHz)	*****			
A-4726-177-A HP BOARD, COMPLETE						

< JACK >						
JK802	1-815-702-11	JACK (LARGE TYPE) (PHONES)				
< CONNECTOR >						
* PN804	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P				
△ PN902	1-815-703-11	PIN, CONNECTOR 2P				
< SWITCH >						
△ PW801	1-771-757-12	SWITCH, PUSH (1 KEY) (POWER)				
< VARIABLE RESISTOR >						
VR801	1-227-425-11	RES, VAR 50K/50K (PHONE LEVEL)	*****			
*	A-4727-517-A	POWER BOARD, COMPLETE (E,MX)				
*	A-4735-112-A	POWER BOARD, COMPLETE (US,CND)	*****			
Note: The parts not described here are not supplied for service.						
< CAPACITOR >						
△ C903	1-165-878-11	ELECT	150uF	20%	250V	
					(US,CND)	
△ C903	1-165-879-11	ELECT	100uF	20%	400V	
					(E,MX)	
< COIL >						
△ BC901	1-400-104-11	INDUCTOR	0UH			
< BRIDGE DIODE >						
△ BD901	8-719-510-06	DIODE S1WB60				
< DIODE >						
△ D902	8-719-085-16	DIODE EU01W				
D906	8-719-085-15	DIODE RU3YXLF-C1				
D907	8-719-085-16	DIODE EU01W				
D908	8-719-085-16	DIODE EU01W				
D909	8-719-085-17	DIODE B10A45V1				
D910	8-719-085-16	DIODE EU01W				
D920	8-719-085-16	DIODE EU01W				
< FUSE >						
△ F901	1-576-533-11	FUSE T1.6A 250V				
< IC >						
△ IC901	6-700-520-01	IC STR-G6153T				
△ IC902	6-700-521-01	IC PS2561-1-V				
IC904	6-700-522-01	IC KIA431				
IC905	8-759-189-48	IC KA78R12TU				
IC906	6-700-523-01	IC KA7912				
IC907	8-759-347-19	IC KIA7812PI				

Ref. No.	Part No.	Description	Remark
< RESISTOR >			
△ R901	1-244-389-11	RES, MATEL PLATE	2.7
< TRANSFORMER >			
△ T901	1-437-598-11	TRANSFORMER,POWER	
< ZENNER DIODE >			
ZD901	8-719-109-85	DIODE MTZJ-5.1B	

A-4726-178-A	VOL BOARD, COMPLETE		

< 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	
R806	1-249-428-11	CARBON 8.2K 5% 1/4W	F
< SWITCH >			
SW801	1-762-875-21	SWITCH, KEYBOARD (OPEN/CLOSE ≡)	
SW802	1-762-875-21	SWITCH, KEYBOARD (REC ●)	
SW805	1-762-875-21	SWITCH, KEYBOARD (■)	
SW806	1-762-875-21	SWITCH, KEYBOARD (▷)	
SW807	1-762-875-21	SWITCH, KEYBOARD (■)	
< VARIABLE RESISTOR >			
VR802	1-223-799-11	RES, VAR, CARBON 20K/20K (REC LEVEL)	

MISCELLANEOUS			

57	1-823-105-11	WIRE (FLAT TYPE) (16 CORE)	
58	1-823-104-11	WIRE (FLAT TYPE) (26 CORE)	
△ 61	1-823-044-11	CORD, POWER (CND,US)	
△ 61	1-823-333-11	CORD, POWER (E,MX)	
△ 111	1-476-791-11	PICK-UP BLOCK	
112	1-823-045-11	WIRE (FLAT TYPE) (17 CORE)	
△ 162	1-476-792-11	OPTICAL PICK-UP (CD-R)	
167	1-823-046-11	WIRE (FLAT TYPE) (32 CORE)	
179	1-823-103-11	WIRE (FLAT TYPE) 8P	
FLD801	1-518-766-11	INDICATOR TUBE, FLUORESCENT	

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
ACCESSORIES & PACKING MATERIALS			

1-476-514-11		REMOTE COMMANDER (RM-R50)	
1-790-735-12		CORD, CONNECTION	
4-228-696-01		COVER, BATTERY (FOR RM-R50)	
4-235-461-41		MANUAL ASSY, OWNERS	
		(ENGLISH,FRENCH)(CND)	
4-235-463-01		MANUAL ASSY, OWNERS (ENGLISH) (US)	
4-235-463-11		MANUAL ASSY, OWNERS (SPANISH) (MX)	
4-235-463-21		MANUAL ASSY, OWNERS (ENGLISH,SPANISH)	
		(E)	

Supply the owner's manual assy that is for all destination as a set only for service.

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

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

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