HCD-HDX285/HDX287WC/HDX585/HDX587WC/ HDX589W/HDX685/HDX686W

SERVICE MANUAL

Self Diagnosis Supported model

Ver. 1.0 2009.02

US Model
HCD-HDX285/HDX287WC/HDX585/
HDX587WC/HDX589W

Canadian Model
HCD-HDX685/HDX686W

E Model
HCD-HDX285

Photo: HCD-HDX285

- HCD-HDX285 is the amplifier, super audio CD/DVD, tuner and video section in DAV-HDX285.
- HCD-HDX287WC is the amplifier, super audio CD/DVD, tuner and video section in DAV-HDX287WC.
- HCD-HDX585 is the amplifier, super audio CD/DVD, tuner and video section in DAV-HDX585.
- HCD-HDX587WC is the amplifier, super audio CD/DVD, tuner and video section in DAV-HDX587WC.
- HCD-HDX589W is the amplifier, super audio CD/DVD, tuner and video section in DAV-HDX589W.
- HCD-HDX685 is the amplifier, super audio CD/DVD, tuner and video section in DAV-HDX685.
- HCD-HDX686W is the amplifier, super audio CD/DVD, tuner and video section in DAV-HDX686W.

Sony Corporation
Audio&Video Business Group

9-889-396-01
2009B05-1

Model Name Using Similar Mechanism	HCD-HDX275
DVD Mechanism Type	CDM81C-DVBU101
Optical Pick-up Block Name	KHM-310CAB or KHM-313CAB

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS for the U.S. model

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 3 ohms loads, both channels driven, from 180 - 20,000 Hz; rated 84 watts per channel minimum RMS power, with no more than 0.7% total harmonic distortion from 250 milli watts to rated output.

Amplifier Section (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)

U.S. models:

Surround mode (reference): RMS output power FL/FR/C/SL/SR*: 144 watts (per channel at 3 ohms, 1 kHz, 10% THD) Subwoofer*: 280 watts (at 1.5 ohms, 80 Hz, 10% THD)

Other models:

Stereo mode (rated): 108 W + 108 W (at 3 ohms, 1 kHz, 1% THD)

Surround mode (reference): RMS output power FL/FR/C/SL/SR*: 144 watts (per channel at 3 ohms, 1 kHz, 10% THD) Subwoofer*: 280 watts (at 1.5 ohms, 80 Hz, 10% THD)

Amplifier Section (HDX589W/HDX686W)

U.S. models:

Surround mode (reference): RMS output power FL/FR/C*: 144 watts (per channel at 3 ohms, 1 kHz, 10% THD) Subwoofer*: 280 watts (at 1.5 ohms, 80 Hz, 10% THD)

Other models:

Stereo mode (rated): 108 W + 108 W (at 3 ohms, 1 kHz, 1% THD)

Surround mode (reference): RMS output power FL/FR/C*: 144 watts (per channel at 3 ohms, 1 kHz, 10% THD) Subwoofer*: 280 watts (at 1.5 ohms, 80 Hz, 10% THD)

* *Depending on the decoding mode settings and the source, there may be no sound output.*

Inputs (Analog)

TV/VIDEO (AUDIO IN): Sensitivity: 450/250 mV

AUDIO IN: Sensitivity: 250/125 mV

Inputs (Digital)

TV/VIDEO (COAXIAL IN/OPTICAL IN): Impedance: 75 ohms/- Input Stream: Dolby Digital 5.1ch/DTS 5.1ch/ Linear PCM 2ch (Sampling Frequency: less than 48 kHz)

Outputs (Analog)

Phones: Accepts low- and high-impedance headphones.

– Continued on next page –

DVD RECEIVER

SONY®

Super Audio CD/DVD System

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

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

Signal format system
North American models: NTSC
Other models: PAL/NTSC

Tuner Section

System — PLL quartz-locked digital synthesizer

FM tuner section
Tuning range
North American models: 87.5 MHz - 108.0 MHz (100 kHz step)
Other models: 87.5 MHz - 108.0 MHz (50 kHz step)
Antenna (aerial) — FM wire antenna (aerial)
Antenna (aerial) terminals — 75 ohms, unbalanced
Intermediate frequency — 10.7 MHz

AM tuner section
Tuning range
North American model: 530 kHz - 1,710 kHz (with the interval set at 10 kHz)
531 kHz - 1,710 kHz (with the interval set at 9 kHz)
Middle Eastern model: 531 kHz - 1,602 kHz (with the interval set at 9 kHz)
Other models: 531 kHz - 1,602 kHz (with the interval set at 9 kHz)
530 kHz - 1,610 kHz (with the interval set at 10 kHz)
Antenna (aerial) — AM loop antenna (aerial)
Intermediate frequency — 450 kHz

Video Section

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

General

Power requirements
North American models: 120 V AC, 60 Hz
Other models: 220 V - 240 V AC, 50/60 Hz

HDX285/HDX287WC/HDX585/HDX587WC/HDX685
Power consumption — On: 160 W
Standby: 0.3 W (at the Power Saving mode)

HDX589W/HDX686W
Power consumption — On: 120 W
Standby: 0.3 W (at the Power Saving mode)
Output voltage (DIGITAL MEDIA PORT) — DC 5 V
Output current (DIGITAL MEDIA PORT) — 700 mA

HDX285/HDX585/HDX685
Dimensions (approx.) — 430 mm × 85 mm × 415 mm (17 in × 3 3/8 in × 16 3/8 in) (w/h/d) incl. projecting parts

HDX287WC/HDX587W/HDX589W/HDX686W
Dimensions (approx.) — 430 mm × 85 mm × 420 mm (17 in × 3 3/8 in × 16 5/8 in) (w/h/d) incl. projecting parts
430 mm × 85 mm × 450 mm (17 in × 3 3/8 in × 17 3/4 in) (w/h/d) with the wireless transceiver inserted
Mass (approx.) — 5.2 kg (11 lb 8 oz)

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONET WARNING!

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

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

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

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.

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

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

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

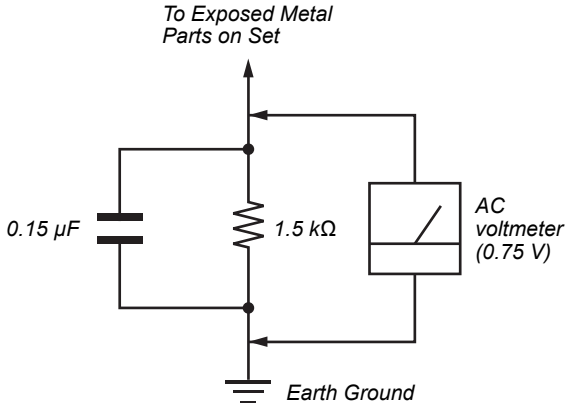
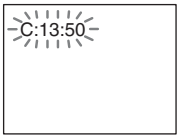


Fig. A. Using an AC voltmeter to check AC leakage.

SELF DIAGNOSIS FUNCTION

(When letters/numbers appear in the display)

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



First 3 characters of the service number	Cause and/or corrective action
C 13	The disc is dirty. ➡Clean the disc with a soft cloth.
C 31	The disc is not inserted correctly. ➡Restart the system, then re-insert the disc correctly.
E XX (XX is a number)	To prevent a malfunction, the system has performed the self-diagnosis function. ➡Contact your nearest Sony dealer or local authorized Sony service facility and give the 5-character service number. Example: E 61 10

When the version number appears on the TV screen

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

TABLE OF CONTENTS

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

Note: Refer to the Servicing Notes “FL-JACK AND P-SW BOARDS DISCRIMINATION” (page 5) for how to distinguish Suffix-11 and Suffix-12.

SECTION 1
SERVICING NOTES

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

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

NOTES ON LASER DIODE EMISSION CHECK

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

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(**Caution:** Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

RELEASING THE TRAY LOCK

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

Releasing Procedure:

1. Press the [I/⏻] button to turn on the system.
2. Press the [FUNCTION] button repeatedly to select “DVD”.
3. While pressing the [■] button, press the [⏏] button until “UNLOCKED” displayed on the fluorescent indicator tube (around 5 seconds).

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

RELEASING THE DEMO PLAY LOCK

Releasing Procedure:

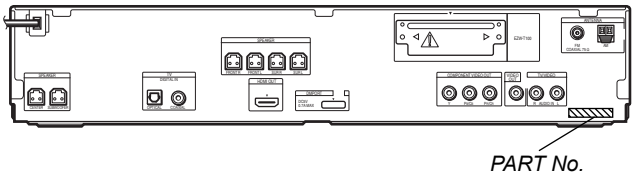
1. Press the [I/⏻] button to turn on the system.
2. Press the [FUNCTION] button repeatedly to select “DVD”.
3. While pressing the [■] button, press the [►] button until “DEMO OFF” displayed on the fluorescent indicator tube (around 5 seconds).

Note: When “DEMO ON” is displayed, the set is not possible to turn off the system.

NOTE OF REPLACING THE IC1103 ON THE MAIN BOARD

IC1103 on the MAIN board cannot exchange with single. When this part is damaged, exchange the entire mounted board.

MODEL IDENTIFICATION

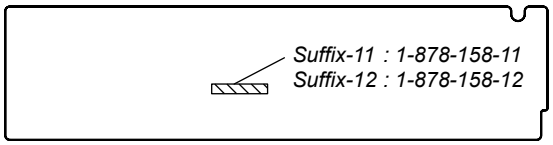


Model	Part No.
HDX585	4-120-917-0□
HDX686W	4-120-917-1□
HDX685	4-120-917-2□
HDX287WC	4-120-917-3□
HDX587WC	4-120-917-4□
HDX589W	4-120-917-5□
HDX285: US model	4-120-917-6□
HDX285: 240V AC area in E model	4-120-917-8□
HDX285: Saudi Arabia model	4-120-917-9□

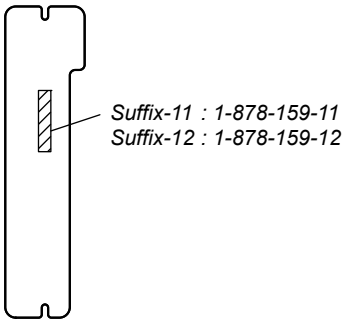
FL-JACK AND P-SW BOARDS DISCRIMINATION

In this set, the FL-JACK and P-SW boards have been changed in the midway of production. Repair after distinguishing each type set to doing the repair referring to following.

– FL-JACK Board (Component Side) –



– P-SW Board (Component Side) –



Playable Discs

Type	Disc logo	Characteristics	Icon
DVD VIDEO		• DVD VIDEO • DVD-R/DVD-RW in DVD VIDEO format or video mode • DVD+R/DVD+RW in DVD VIDEO format	DVD-V
VR (Video Recording) mode		• DVD-R/DVD-RW in VR (Video Recording) mode (except for DVD-R DL)	DVD-VR
VIDEO CD		• VIDEO CD (Ver. 1.1 and 2.0 discs) • Super VCD • CD-R/CD-RW/CD-ROM in video CD format or Super VCD format	VIDEO CD
Super Audio CD		• Super Audio CD	SACD
CD		• Audio CD • CD-R/CD-RW in audio CD format	CD
DATA CD	–	• CD-R/CD-RW/CD-ROM in DATA CD format, containing MP3 files[1], JPEG image files[2], DivX video files[3], and MPEG4 video files[3], and conforming to ISO 9660[4] Level 1/Level 2, or Joliet (extended format)	DATA-CD
DATA DVD	–	• DVD-ROM/DVD-R/DVD-RW/DVD+R/DVD+RW in DATA DVD format, containing MP3 files[1], JPEG image files[2], DivX video files[3], and MPEG4 video files[3], and conforming to UDF (Universal Disk Format)	DATA DVD

[1]MP3 (MPEG1 Audio Layer 3) is a standard format defined by ISO/MPEG for compresses audio data. MP3 files must be in MPEG1 Audio Layer 3 format.

[2]JPEG image files must conform to the DCF image file format. (DCF "Design rule for Camera File system": Image standards for digital cameras regulated by Japan Electronics and Information Technology Industries Association (JEITA).)

[3]Except for North American models.

[4]A logical format of files and folders on CD-ROMs, defined by ISO (International Organization for Standardization).

Notes on discs

This product is designed to playback discs that conform to the Compact Disc (CD) standard. DualDiscs and some of the music discs encoded with copyright protection technologies do not conform to the Compact Disc (CD) standard, therefore, these discs may not be playable by this product.

Example of discs that the system cannot play

The system cannot play the following discs:
- CD-ROM/CD-R/CD-RW other than those recorded in the formats listed on page 7
- CD-ROM recorded in PHOTO CD format
- Data part of CD-Extra
- CD Graphics disc
- DVD Audio
- DATA CD/DATA DVD that does not contain MP3 files, JPEG image files, DivX video files*, or MPEG4 video files*
- DVD-RAM
- Blu-ray Disc

* Except for North American models.

Also, the system cannot play the following discs:
- A DVD VIDEO with a different region code (page 9)
- A disc that has a non-standard shape (e.g., card, heart)
- A disc with paper or stickers on it
- A disc that has the adhesive of cellophane tape or a sticker still left on it

Note about CD-R/CD-RW/DVD-R/DVD-RW/DVD+R/DVD+RW

In some cases, CD-R/CD-RW/DVD-R/DVD-RW/DVD+R/DVD+RW cannot be played on this system due to the recording quality or physical condition of the disc, or the characteristics of the recording device and authoring software.
The disc will not play if it has not been correctly finalized. For more information, refer to the operating instructions for the recording device.
Note that some playback functions may not work with some DVD+RWs/DVD+Rs, even if they have been correctly finalized. In this case, view the disc by normal playback. Also some DATA CDs/DATA DVDs created in Packet Write format cannot be played.

About Multi Session CD

- This system can play a Multi Session CD when an MP3 file is contained in the first session. Any subsequent MP3 files recorded in later sessions can also be played back.
- This system can play a Multi Session CD when a JPEG image file is contained in the first session. Any subsequent JPEG image files recorded in later sessions can also be played back.

- If MP3 files and JPEG image files in music CD format or video CD format are recorded in the first session, only the first session will be played back.

Region code

Your system has a region code printed on the rear of the unit and will only play a DVD labeled with the same region code.

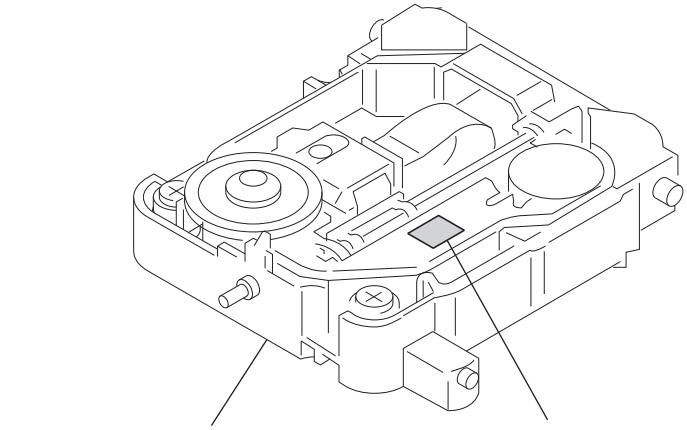
A DVD VIDEO labeled (ALL) will also play on this system.
If you try to play any other DVD VIDEO, the message [Playback prohibited by area limitations.] will appear on the TV screen. Depending on the DVD VIDEO, no region code indication may be given even though playing the DVD VIDEO is prohibited by area restrictions.

Note about playback operations of a DVD or VIDEO CD

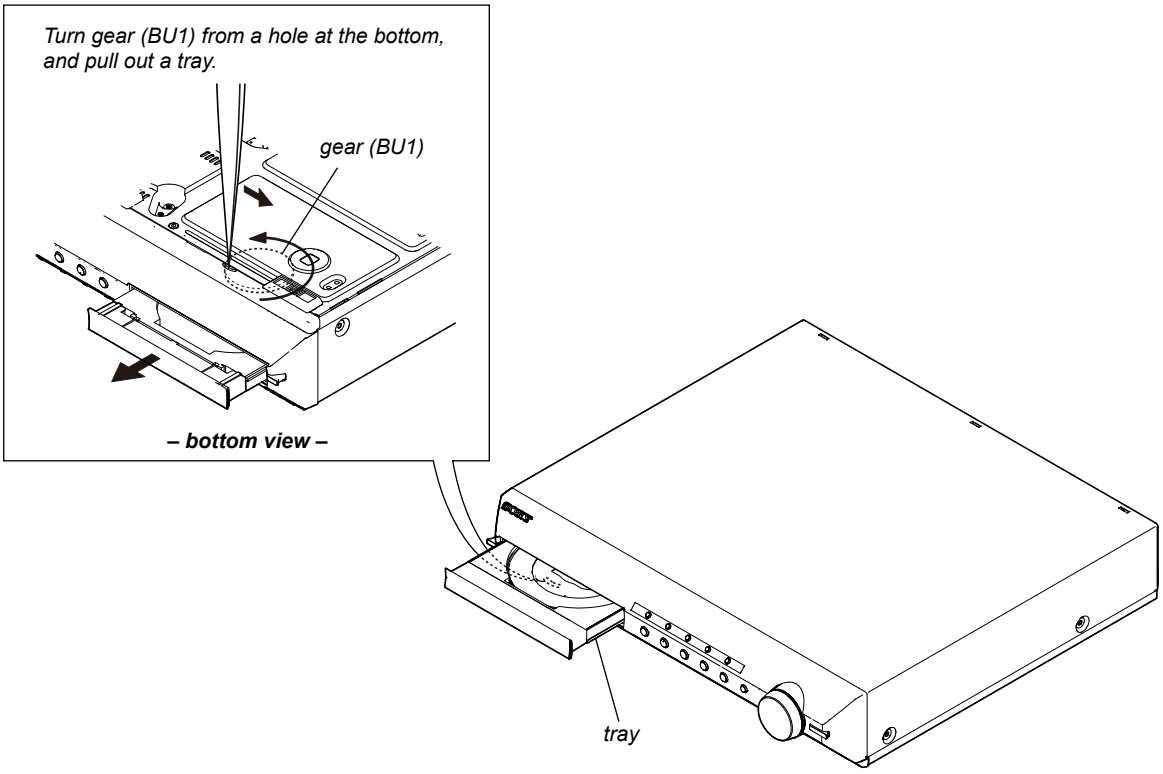
Some playback operations on a DVD or VIDEO CD may be intentionally set by software producers. Since this system will play a DVD or VIDEO CD according to the disc contents the software producers designed, some playback features may not be available. Be sure to read the operating instructions supplied with the DVD or VIDEO CD.

HOW TO IDENTIFY OPTICAL PICK-UP BLOCK

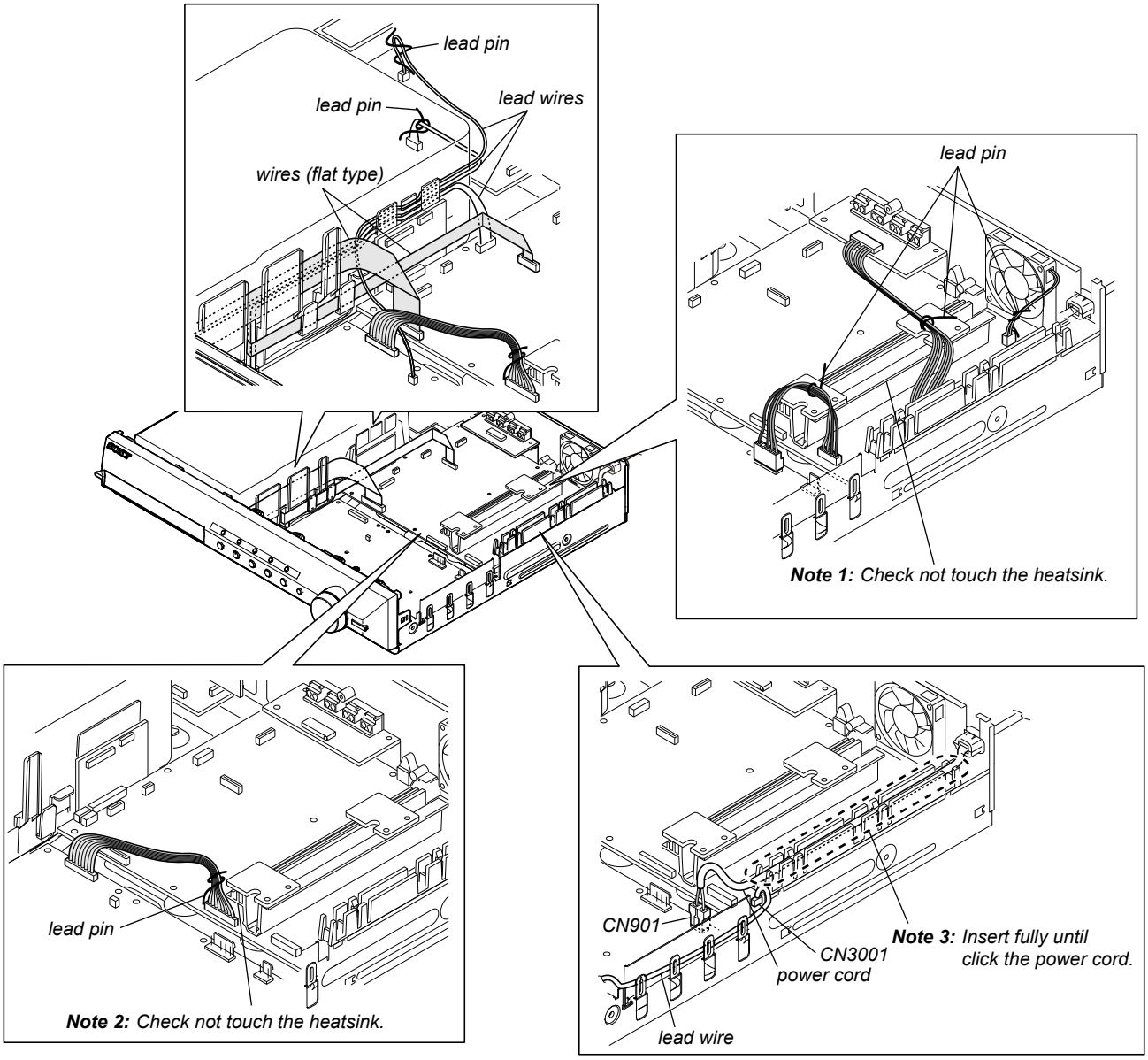
Note: *There are two kinds of OPTICAL PICK-UP BLOCK in this set. When replacing the OPTICAL PICK-UP BLOCK, make sure which OPTICAL PICK-UP BLOCK it is following the "How to Identify" in the figure shown below.*



HOW TO OPEN THE TRAY WHEN POWER SWITCH TURN OFF

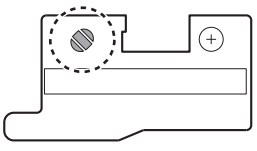


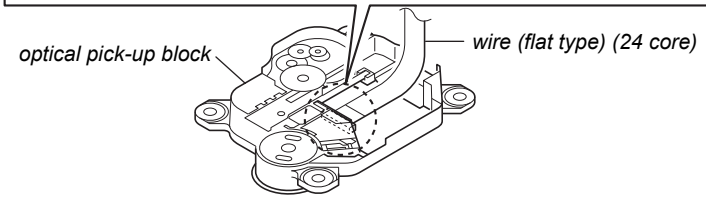
HARNESS SETTING



PRECAUTION WHEN REMOVE GOOD OPTICAL PICK-UP BLOCK

CAUTION
Be sure to bridge here, and then disconnect the wire (flat type) (24 core).
(optical pick-up block will be destroyed without bridging)
On the contrary at the installation, connect the wire (flat type) (24 core) first, and then remove the bridge.
Note: For a soldering iron, use the one with a ground wire.
(Refer to DISASSEMBLY 3-12. OPTICAL PICK-UP BLOCK (KHM-310CAB or KHM-313CAB))



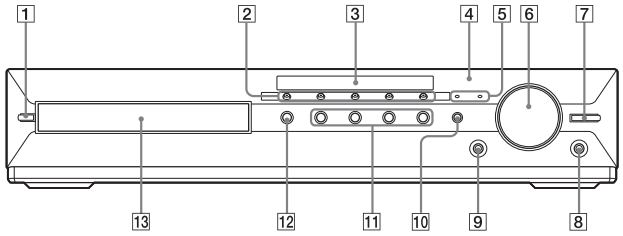


This section is extracted from instruction manual.

Index to Parts and Control

For more information, refer to the pages indicated in parentheses.

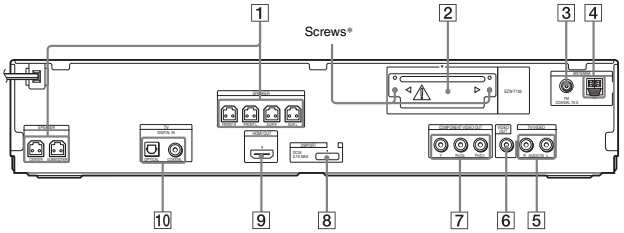
Front panel



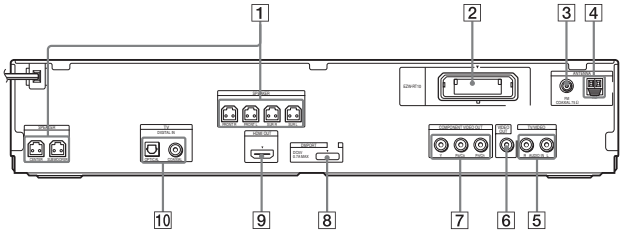
1 **I/⏻ (on/standby)**
2 **DISC 1-5 buttons/indicators**
3 **Front panel display**
4 **(remote sensor)**
5 **MOVIE/MUSIC indicator**
6 **VOLUME control**
7 **DMPORT BOOSTER**
8 **PHONES jack**
9 **AUDIO IN/A.CAL MIC jack**
10 **FUNCTION**
11 **Play operation buttons**
12 **⏏ (open/close)**
13 **Disc tray**

Rear panel

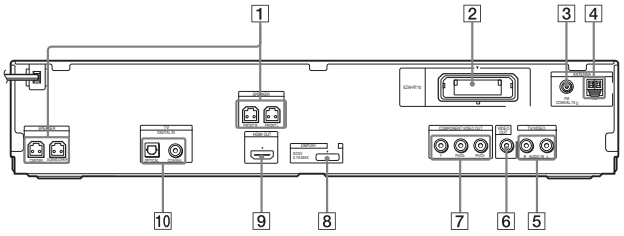
(HDX285/HDX585/HDX685)



(HDX287WC/HDX587WC)



(HDX589W/HDX686W)



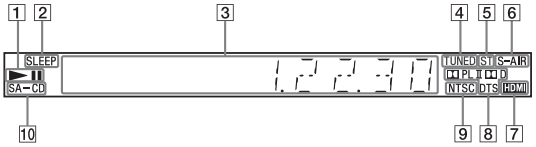
1 **SPEAKER jacks**
2 **EZW-T100 slot (HDX285/HDX585/HDX685)**
2 **EZW-RT10 slot (HDX287WC/HDX587WC/ HDX589W/HDX686W)**
3 **COAXIAL 75Ω FM jack**
4 **AM terminal**
5 **TV/VIDEO (AUDIO IN R/L) jacks**
6 **VIDEO OUT jack**
7 **COMPONENT VIDEO OUT jacks**
8 **DMPORT (DIGITAL MEDIA PORT) jack**
9 **HDMI OUT jack**
10 **TV/VIDEO (DIGITAL IN COAXIAL/ OPTICAL) jacks**

* ⚠ **CAUTION**

Please do not remove the screws unless you are installing the EZW-T100.

Front panel display

About the indications in the front panel display

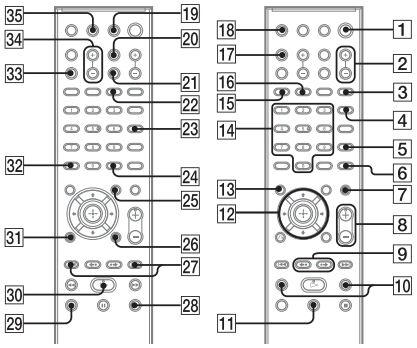


1 **Playing status**
2 **Flashes when the sleep timer is set.**
3 **Displays the system's status such as chapter, title, or track number, time information, radio frequency, playing status, decoding mode, etc.**
4 **Lights up when a station is received. (Radio only)**
5 **Stereo/Monaural effect (Radio only)**
6 **Lights up when the S-AIR transmitter (not supplied) is inserted in the unit and the system transmits the sound.**
7 **Lights up when the HDMI OUT jack is correctly connected to HDCP (High-bandwidth Digital Content Protection) compliant device with HDMI or DVI (Digital Visual Interface) input.**
8 **Current surround format (Except for JPEG image file)**
9 **Lights up when the color system is set to NTSC. (Asian, Australian, and Middle Eastern models only)**
10 **Lights up when a Super Audio CD/CD is loaded.**

Remote control

(HDX285/HDX585/HDX685)

ALPHABETICAL ORDER		BUTTON DESCRIPTIONS
A – O	**P – Z**	
ANGLE 3	PICTURE NAVI 15	Number buttons 14
AUDIO 16	PRESET +/– 27	I/⏻ (on/standby) 1
CLEAR 32	PROG +/–[1] 27	TV I/⏻ (on/standby) 19
D.TUNING 22	S-AIR MODE 4	←/↑/↓/→/ ⊙ 12
DISC SKIP 33	SLEEP 17	←●/●→ REPLAY/ADVANCE 9
DISPLAY 21	SOUND MODE 5	I◀◀ /▶▶I 27
DVD MENU 25	SUBTITLE 22	◀◀/▶▶ 10
DVD TOP MENU 13	SYSTEM MENU 24	STEP ◀II/II▶ 9
DYNAMIC BASS 6	THEATER/THEATRE[2] 18	SLOW ◄▮/▮► 10
ENTER 24	TOOLS 26	▷ (play) 30
FUNCTION +/– 2	TUNING +/– 10	■ (stop) 28
MENU 25	TV 29	▮▮ (pause) 11
MUTING 7	TV CH +/–[3] 27	DISPLAY[4] 26
NIGHT 23	TV INPUT 20	RETURN 31
ONE-TOUCH PLAY 35	TV VOL +/– 34	-/--[1] 32
	VOLUME +/– 8	⊙[3] 32



[1]Except for North American models.

[2]The button name differs depending on the area.

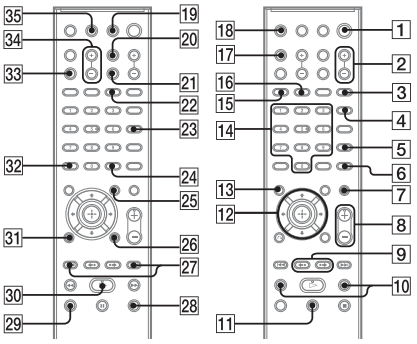
[3]North American models only.

[4]This button is available for the "DVD" or "DMPORT" function. Depending on the DIGITAL MEDIA PORT adapter, this button may not work.

Remote control

(HDX287WC/HDX587WC/HDX589W/HDX686W)

ALPHABETICAL ORDER		BUTTON DESCRIPTIONS
A – O	**P – Z**	
ANGLE 3	PICTURE NAVI 15	Number buttons 14
AUDIO 16	PRESET +/– 27	I/⏻ (on/standby) 1
CLEAR 32	S-AIR MODE 4	TV I/⏻ (on/standby) 19
D.TUNING 22	SLEEP 17	←/↑/↓/→/ ⊙ 12
DISC SKIP 33	SOUND MODE 5	←●/●→ REPLAY/ADVANCE 9
DISPLAY 21	SUBTITLE 22	I◀◀ /▶▶I 27
DVD MENU 25	SYSTEM MENU 24	◀◀/▶▶ 10
DVD TOP MENU 13	THEATER 18	STEP ◀II/II▶ 9
DYNAMIC BASS 6	TOOLS 26	SLOW ◄▮/▮► 10
ENTER 24	TUNING +/– 10	▷ (play) 30
FUNCTION +/– 2	TV 29	■ (stop) 28
MENU 25	TV CH +/– 27	▮▮ (pause) 11
MUTING 7	TV INPUT 20	DISPLAY* 26
NIGHT 23	TV VOL +/– 34	RETURN 31
ONE-TOUCH PLAY 35	VOLUME +/– 8	⊙ 32

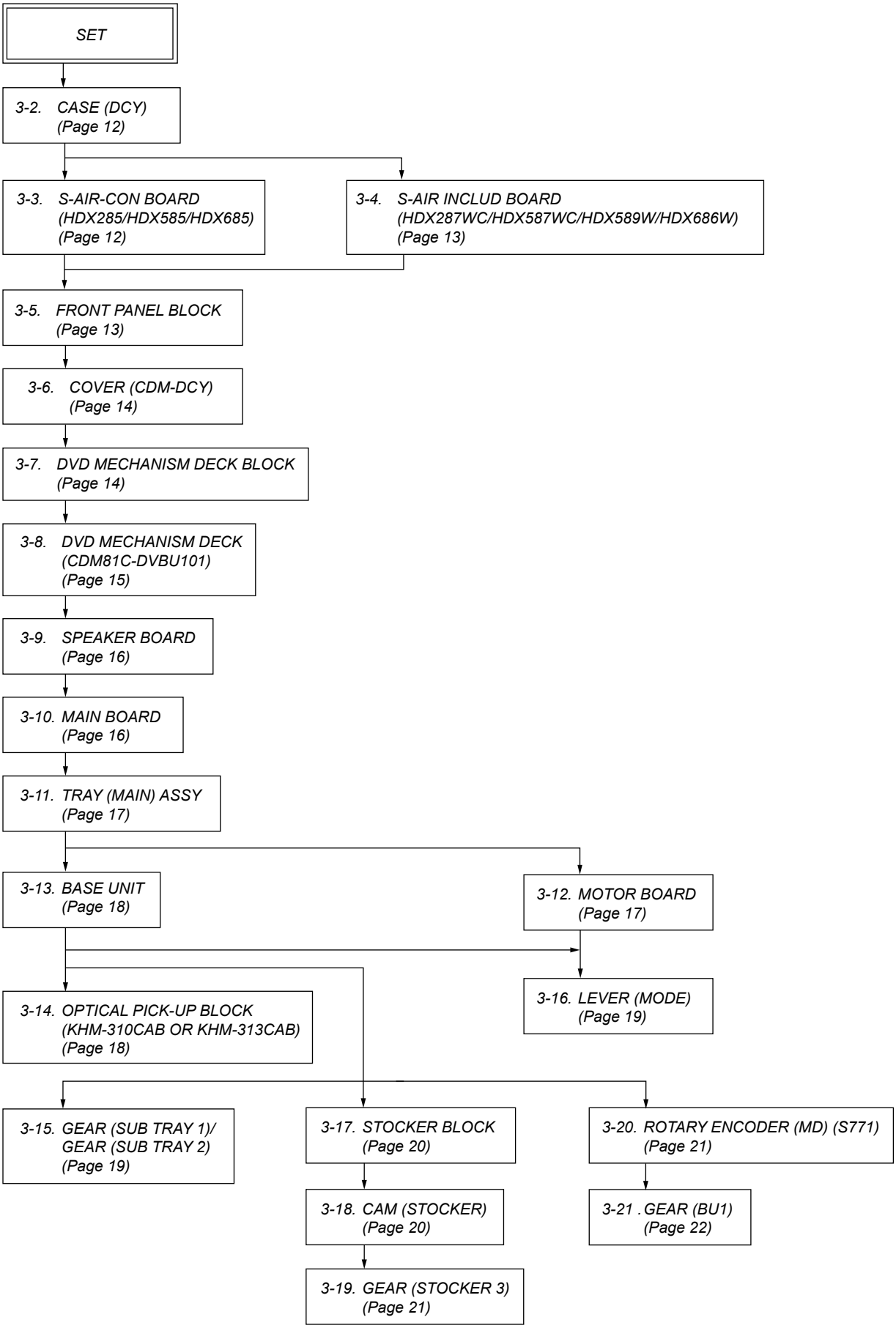


* This button is available for the "DVD" or "DMPORT" function. Depending on the DIGITAL MEDIA PORT adapter, this button may not work.

SECTION 3
DISASSEMBLY

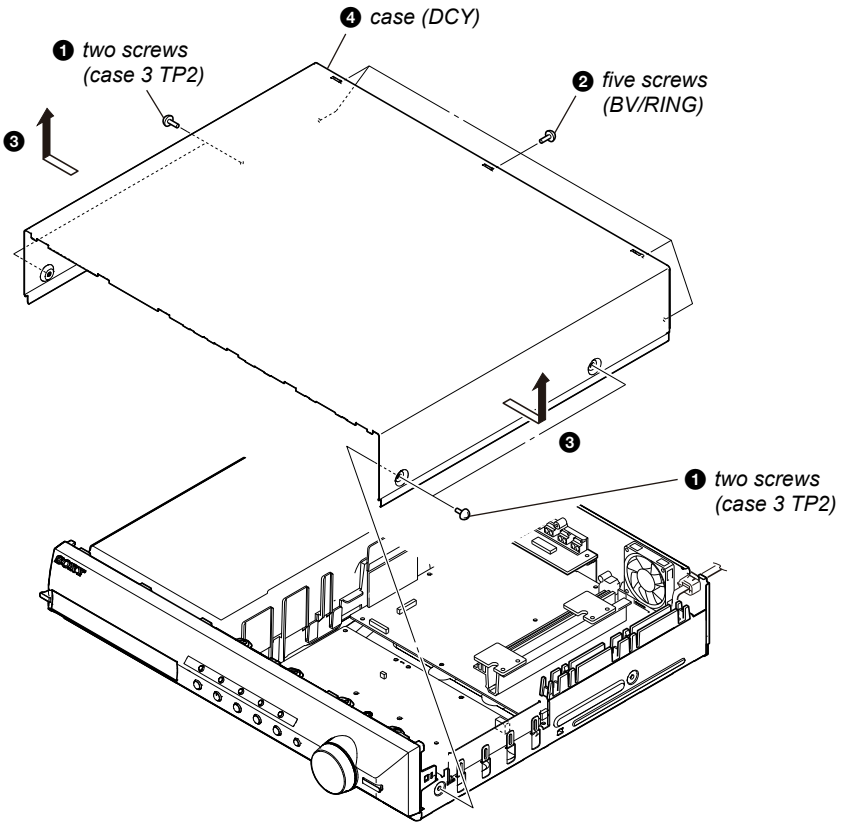
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

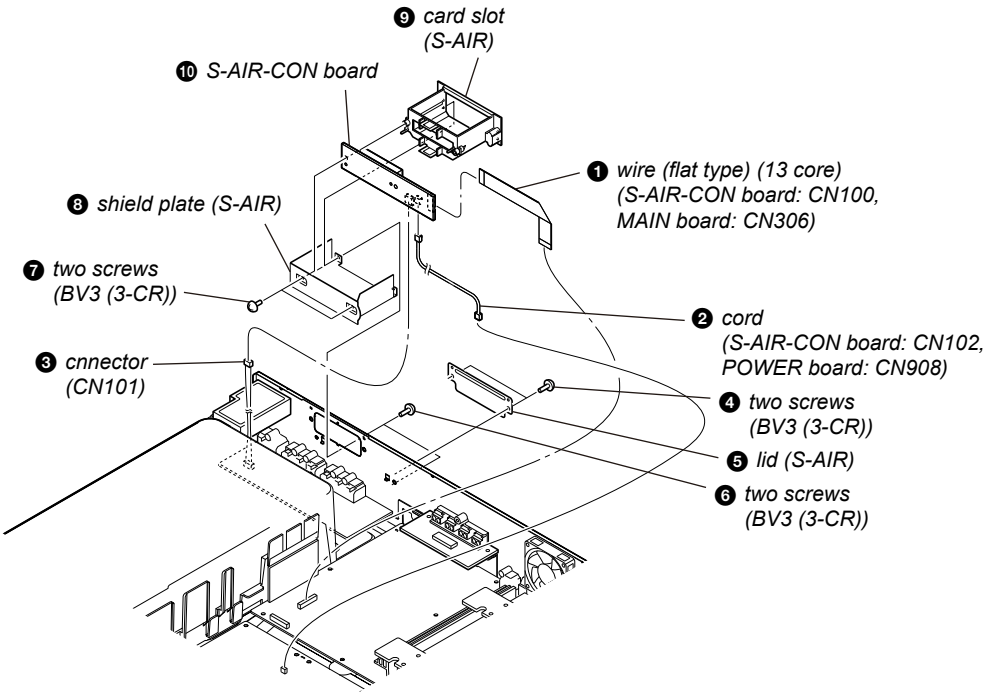


Note: Follow the disassembly procedure in the numerical order given.

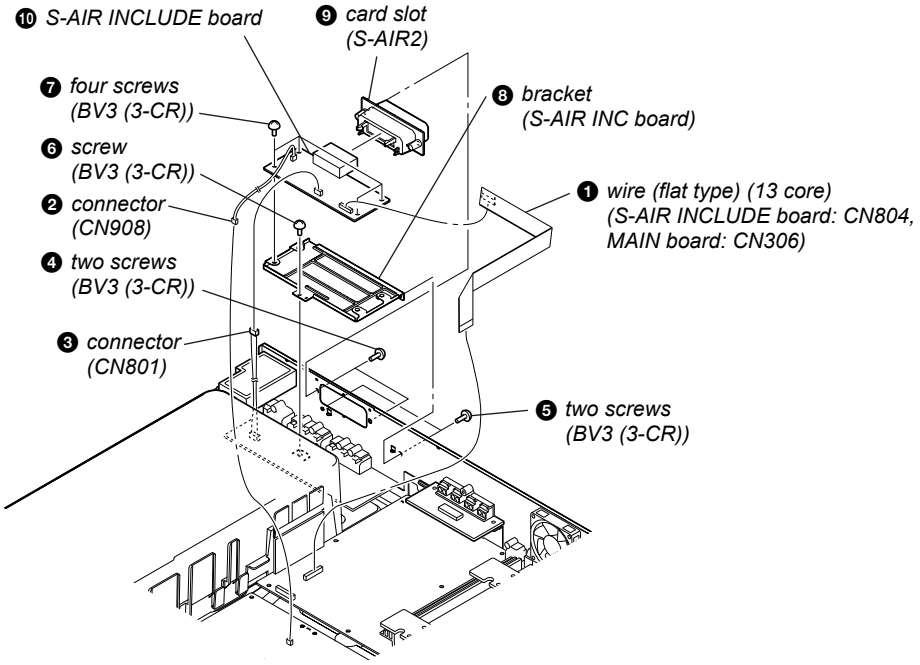
3-2. CASE (DCY)



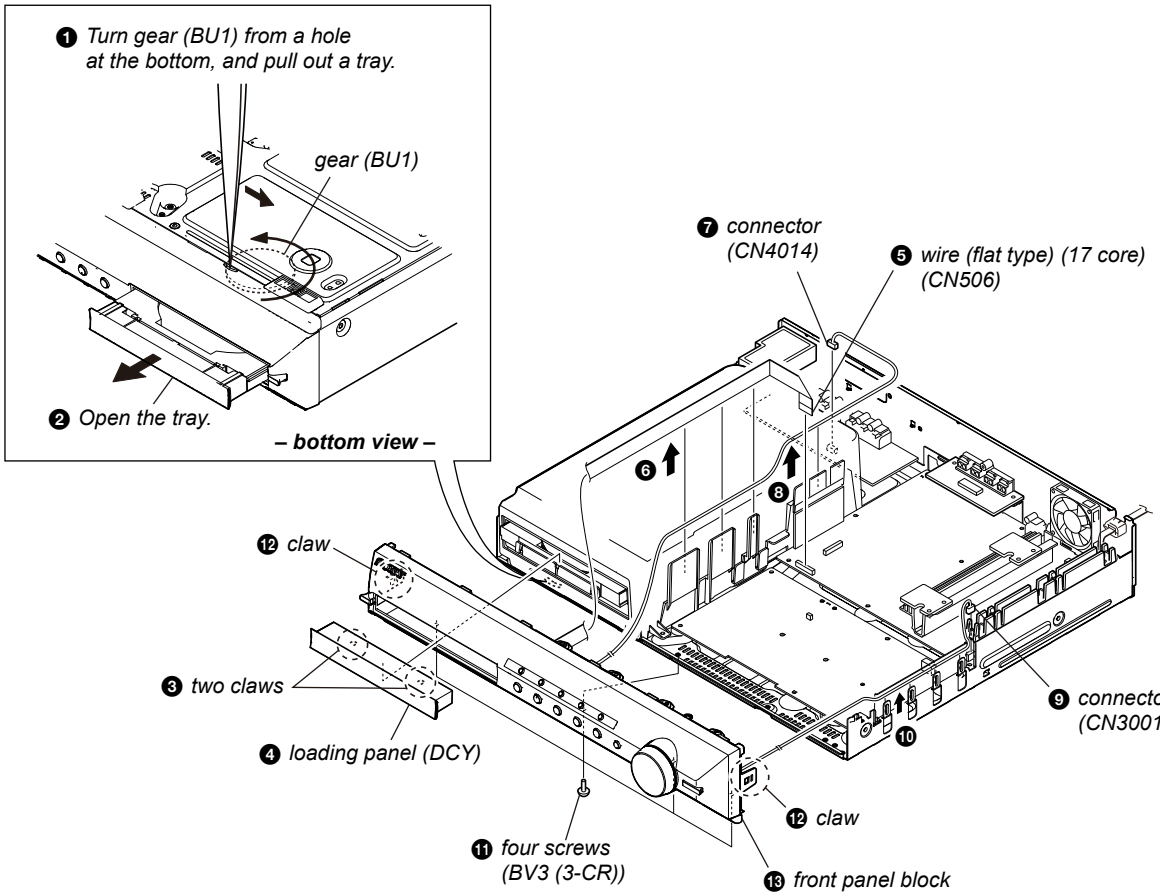
3-3. S-AIR-CON BOARD (HDX285/HDX585/HDX685)



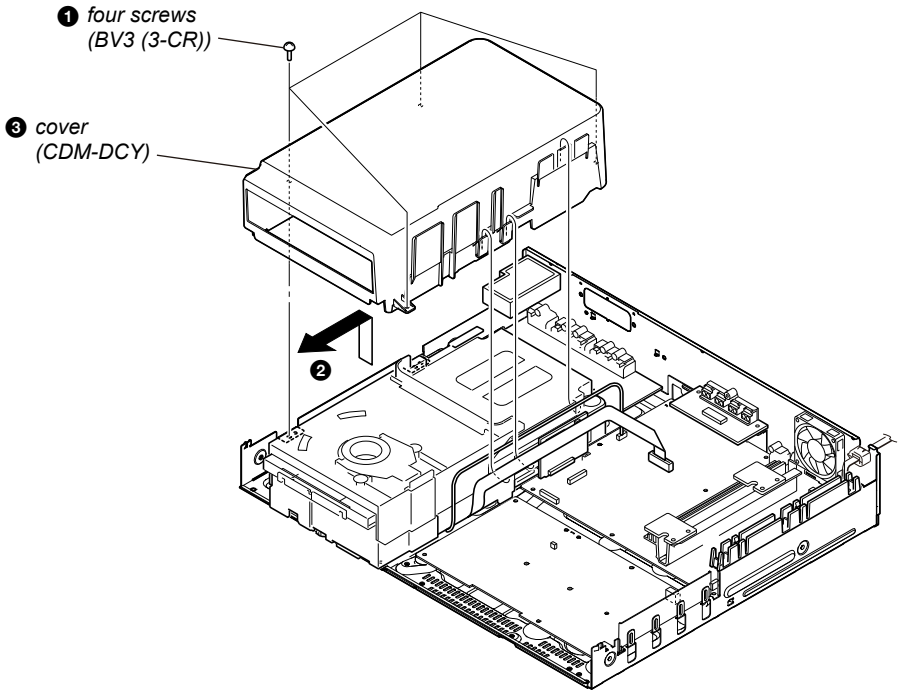
3-4. S-AIR INCLUDE BOARD (HDX287WC/HDX587WC/HDX589W/HDX686W)



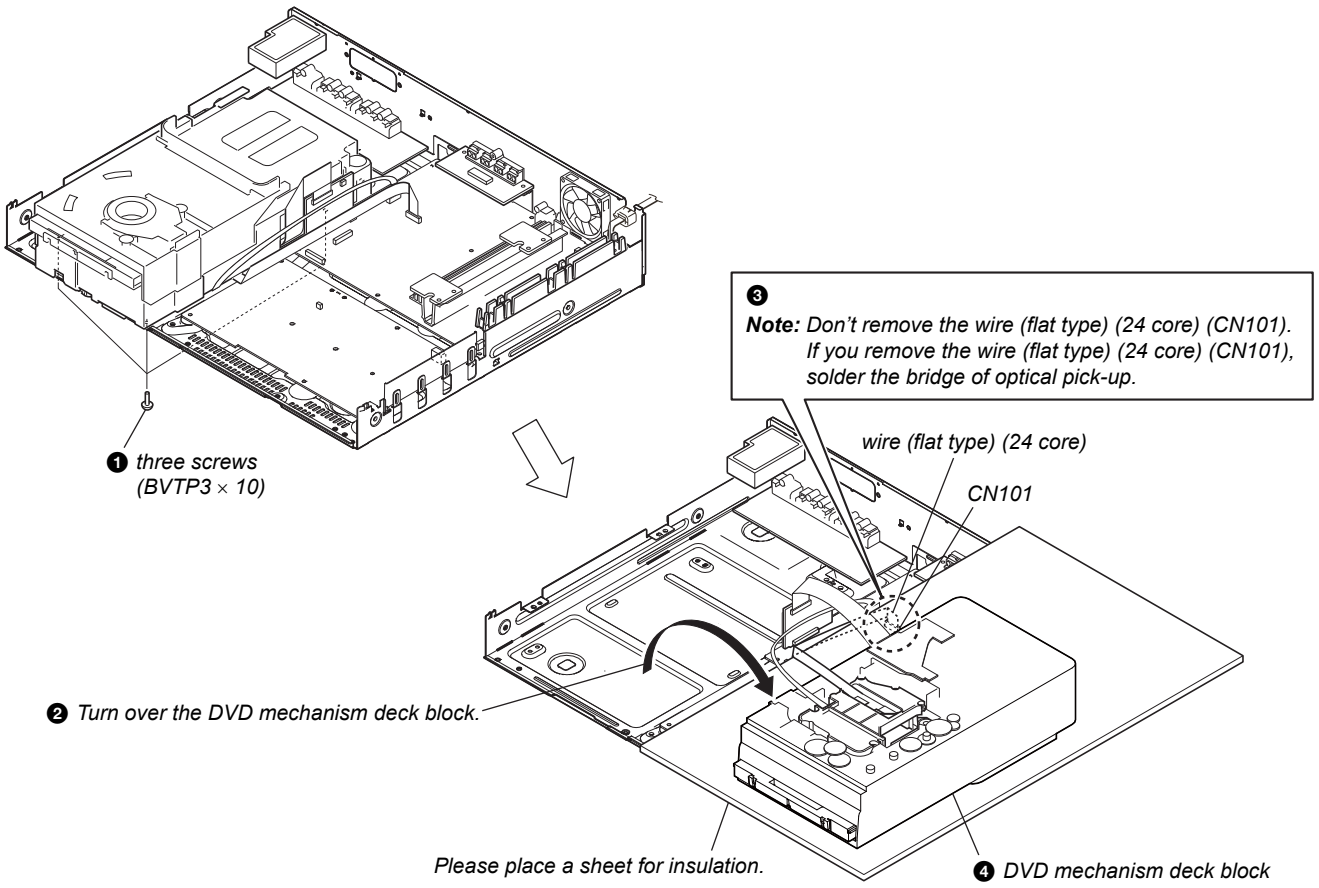
3-5. FRONT PANEL BLOCK



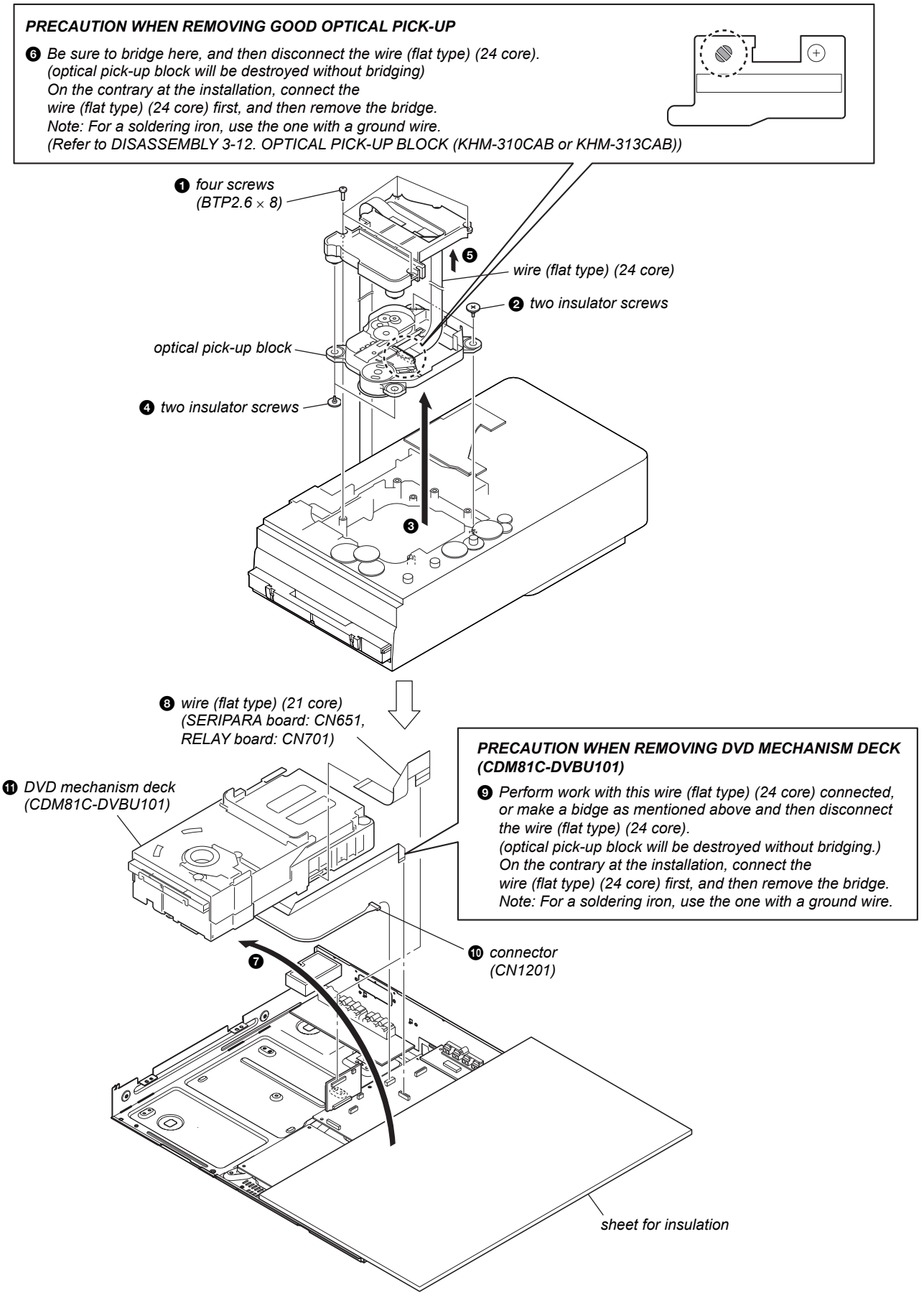
3-6. COVER (CDM-DCY)



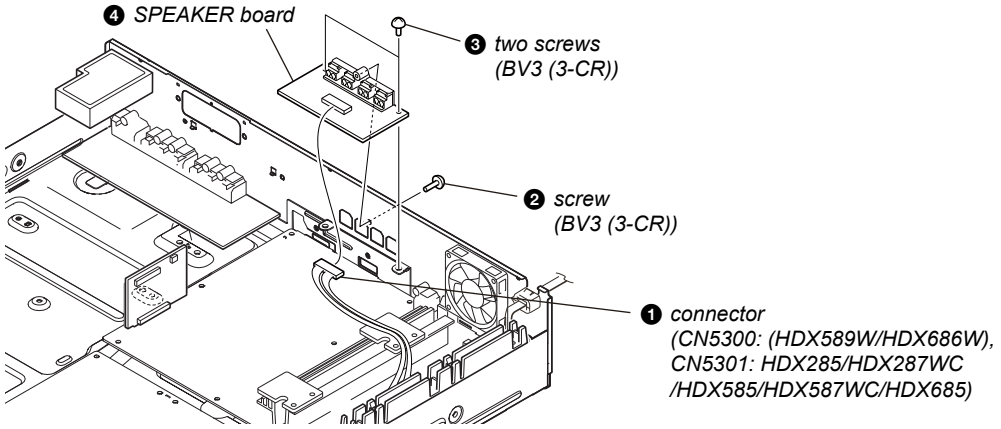
3-7. DVD MECHANISM DECK BLOCK



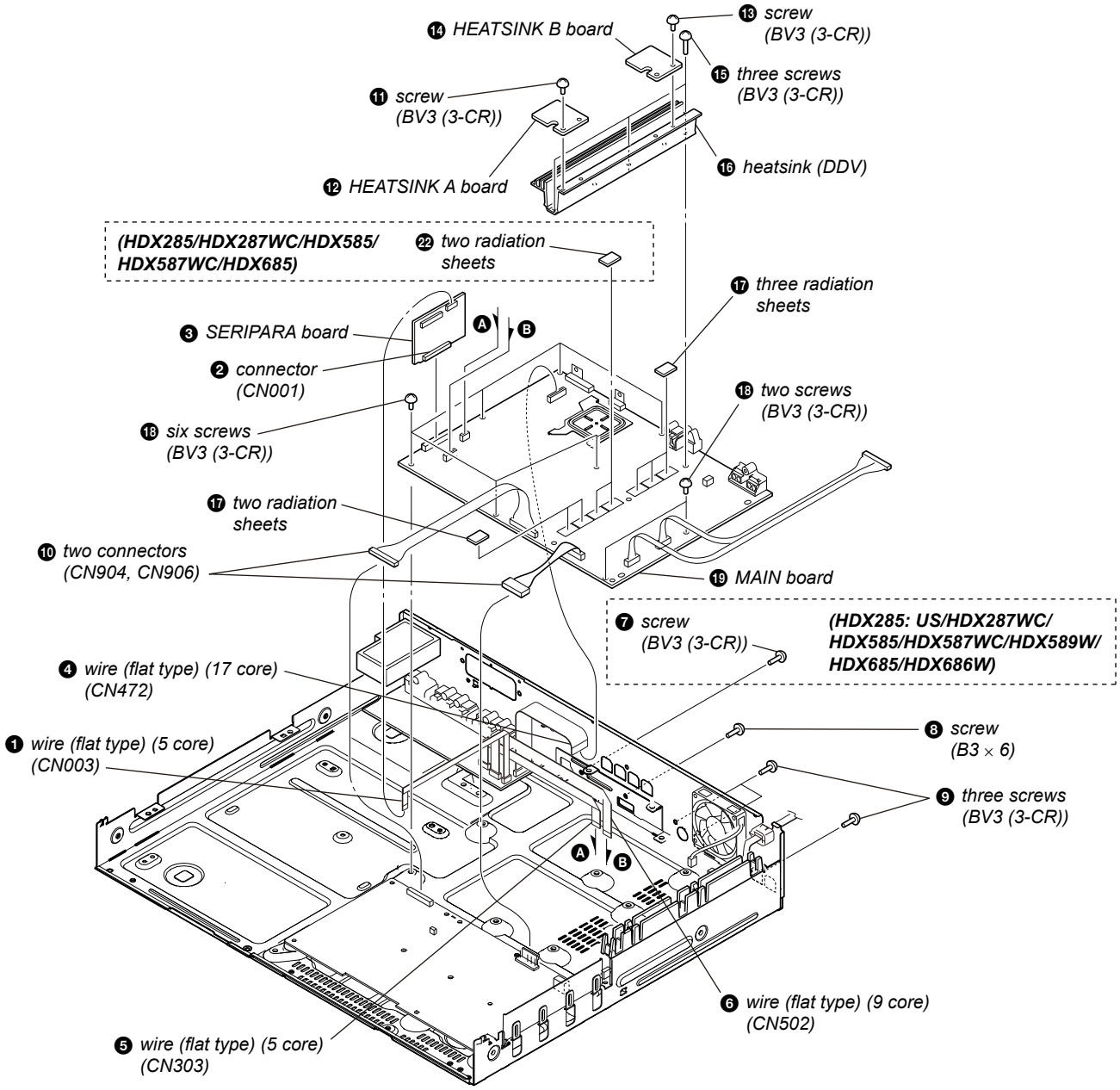
3-8. DVD MECHANISM DECK (CDM81C-DVBU101)



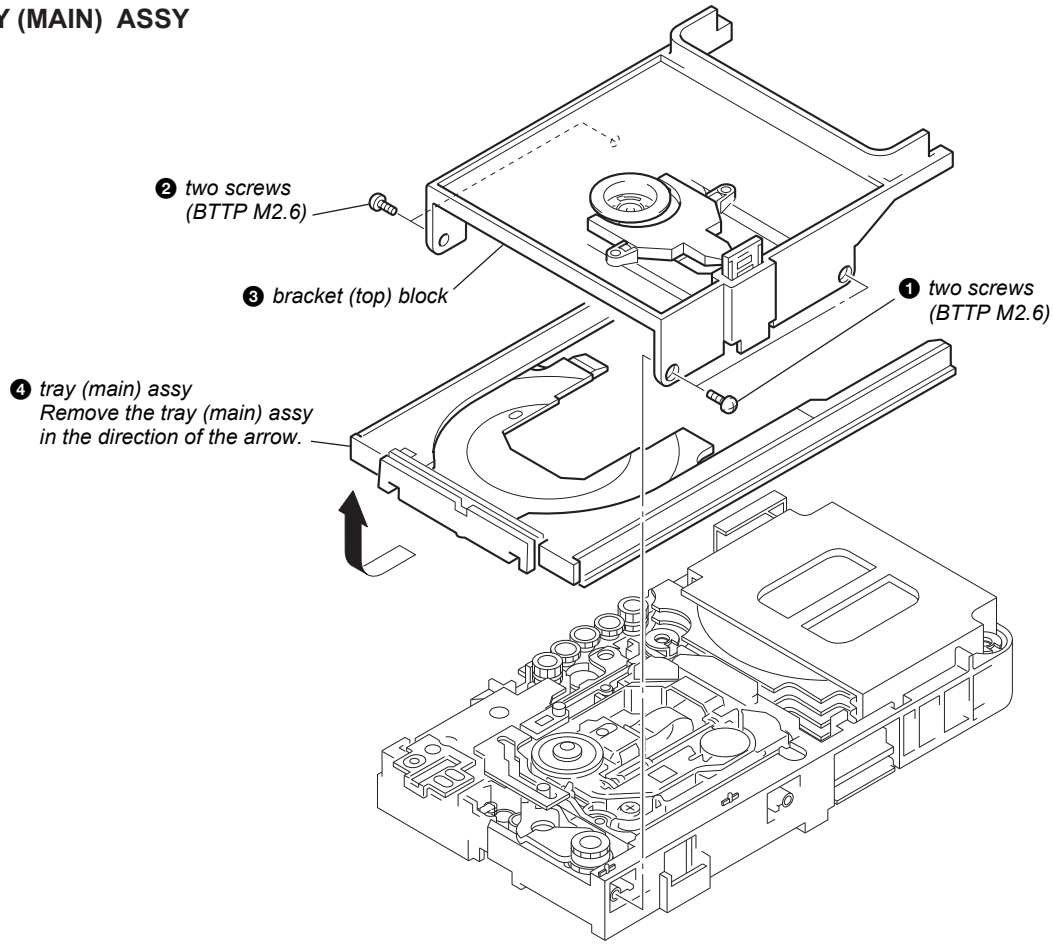
3-9. SPEAKER BOARD



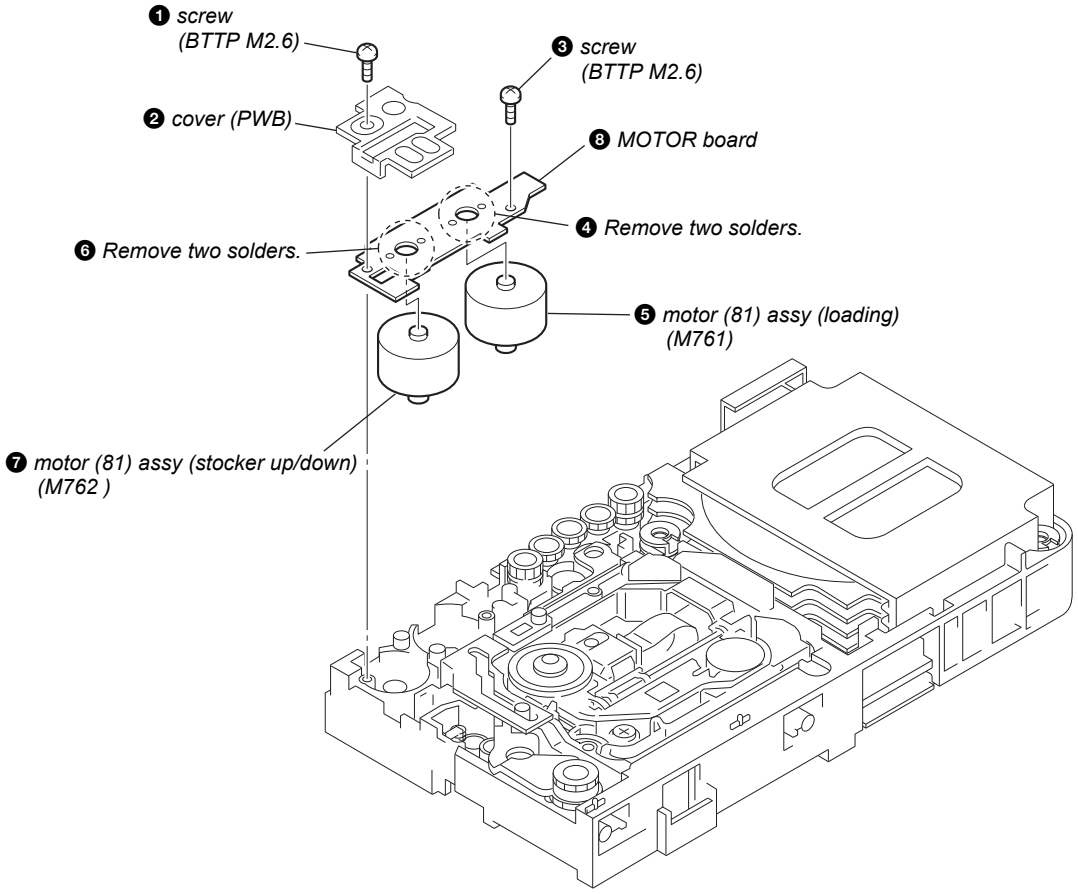
3-10. MAIN BOARD



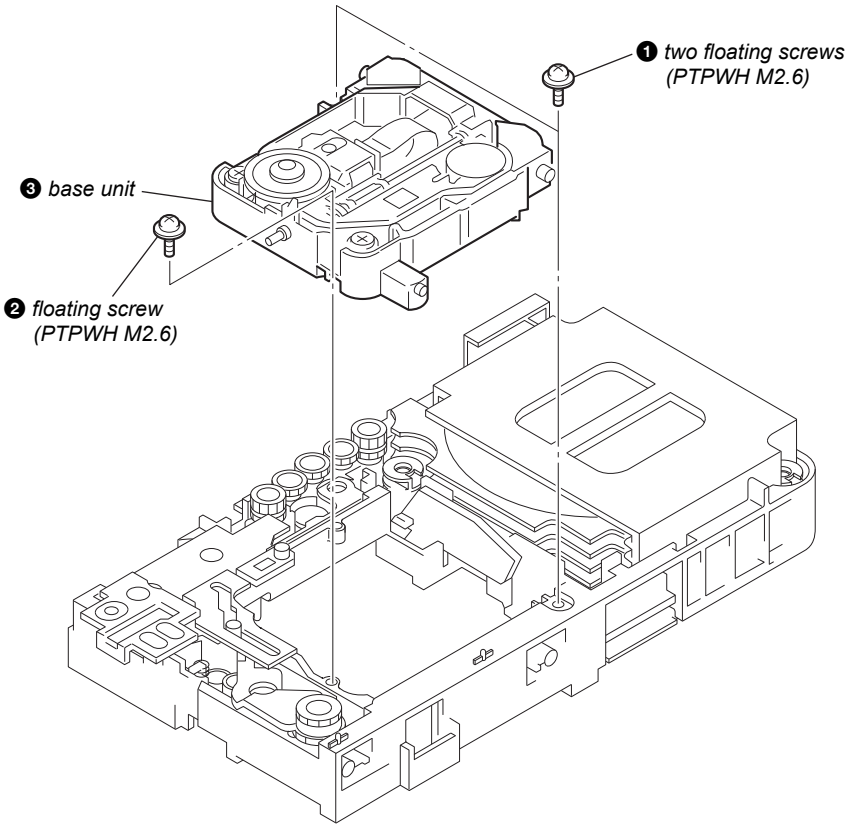
3-11. TRAY (MAIN) ASSY



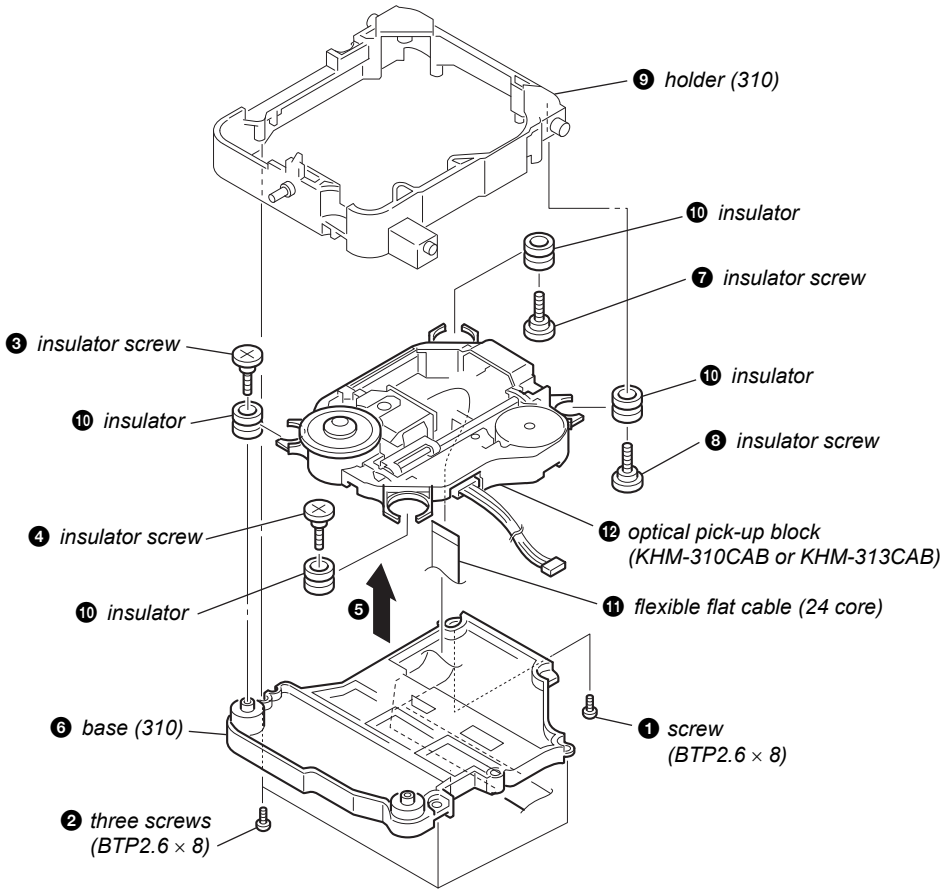
3-12. MOTOR BOARD



3-13. BASE UNIT

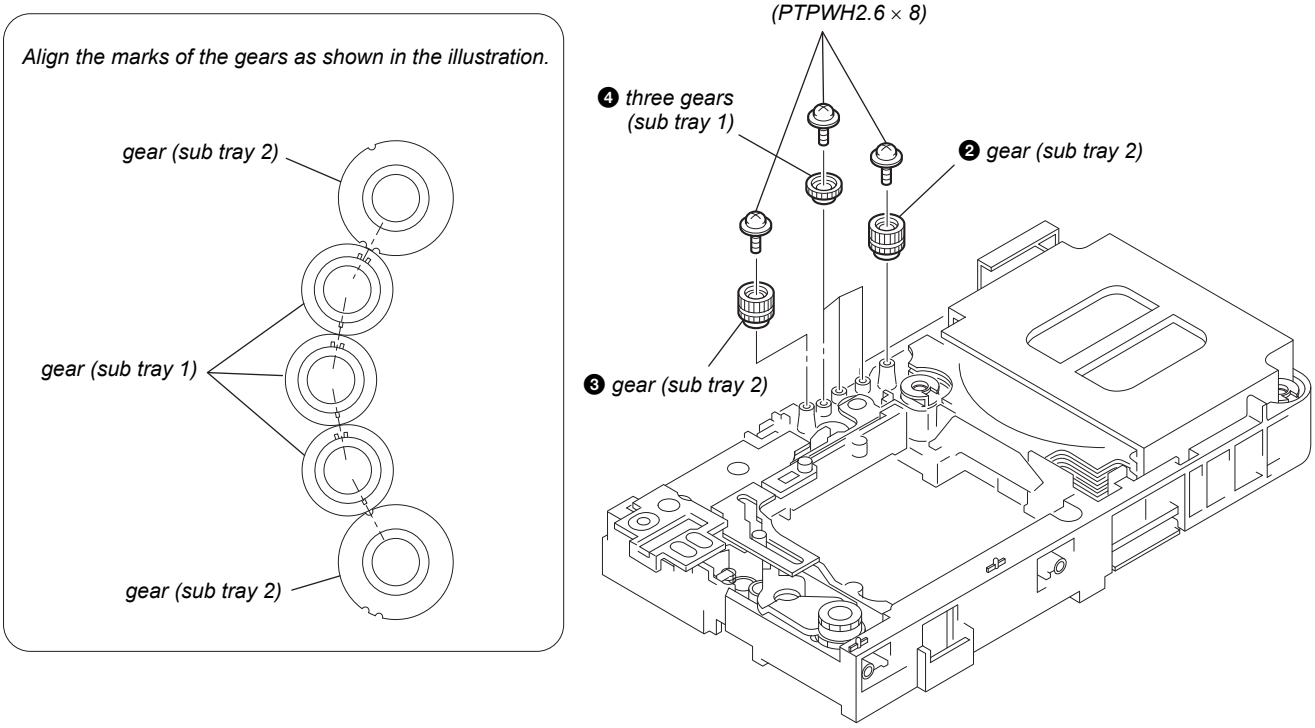


3-14. OPTICAL PICK-UP BLOCK (KHM-310CAB OR KHM-313CAB)

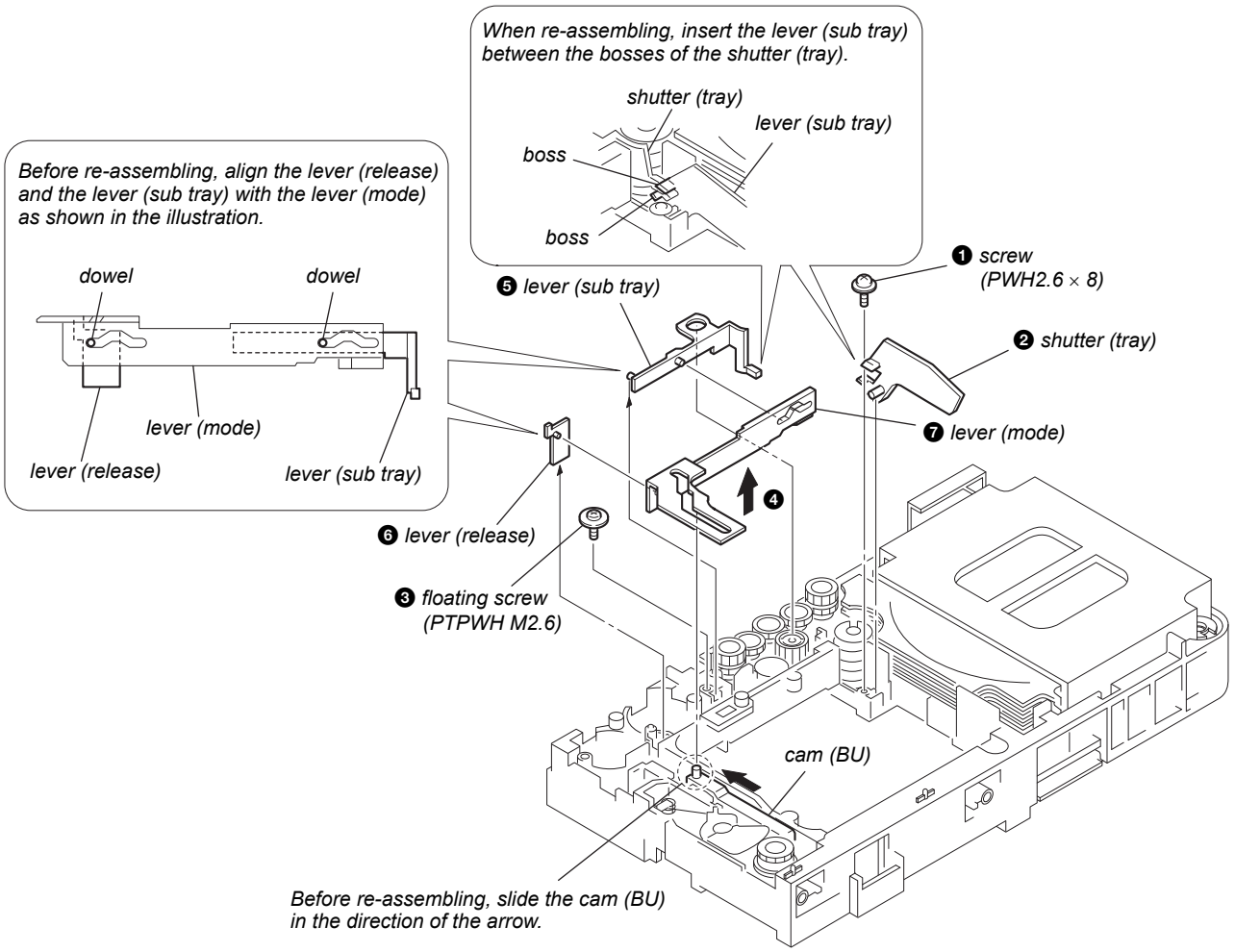


3-15. GEAR (SUB TRAY 1)/GEAR (SUB TRAY 2)

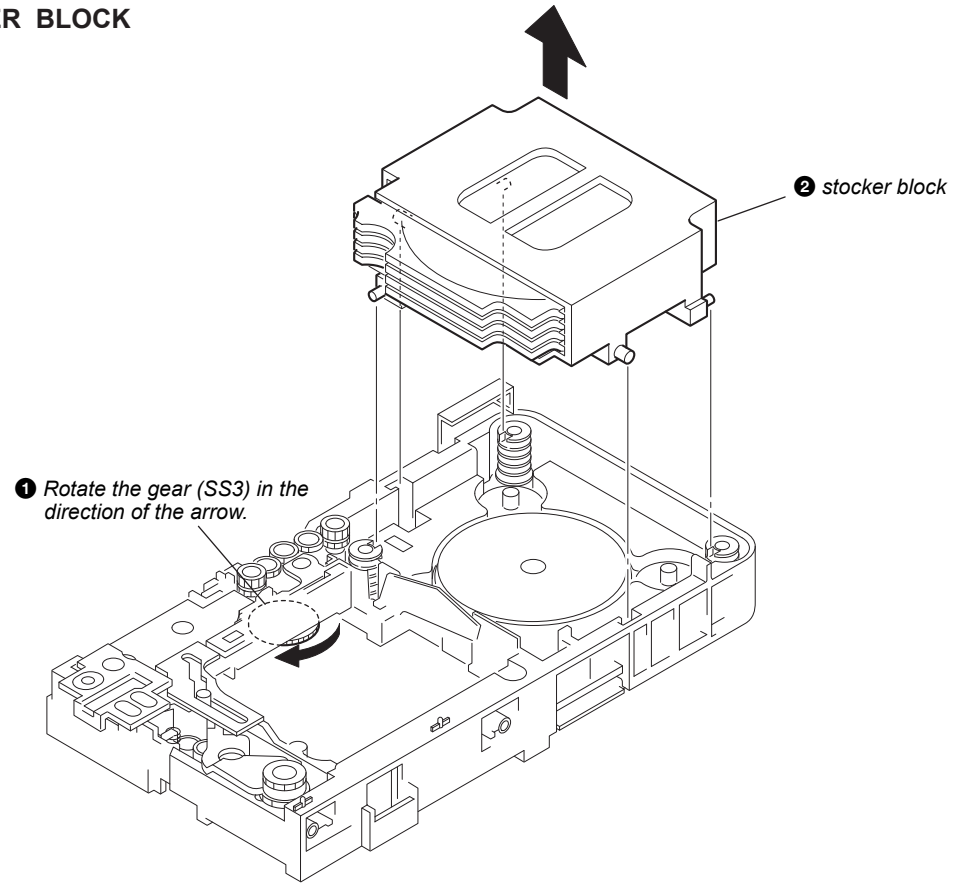
PRECAUTION DURING GEAR (SUB TRAY 1/2) INSTALLATION



3-16. LEVER (MODE)



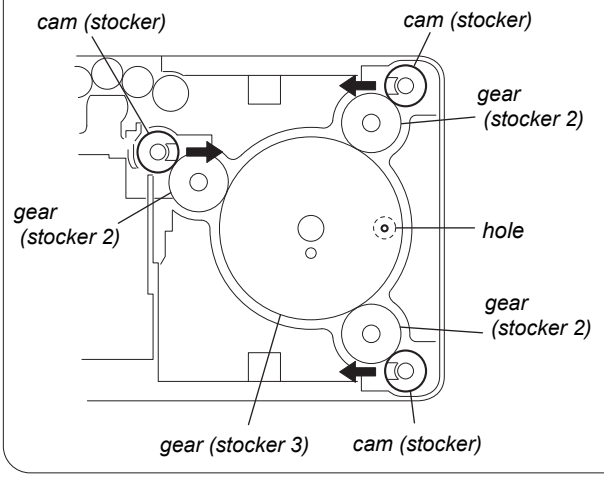
3-17. STOCKER BLOCK

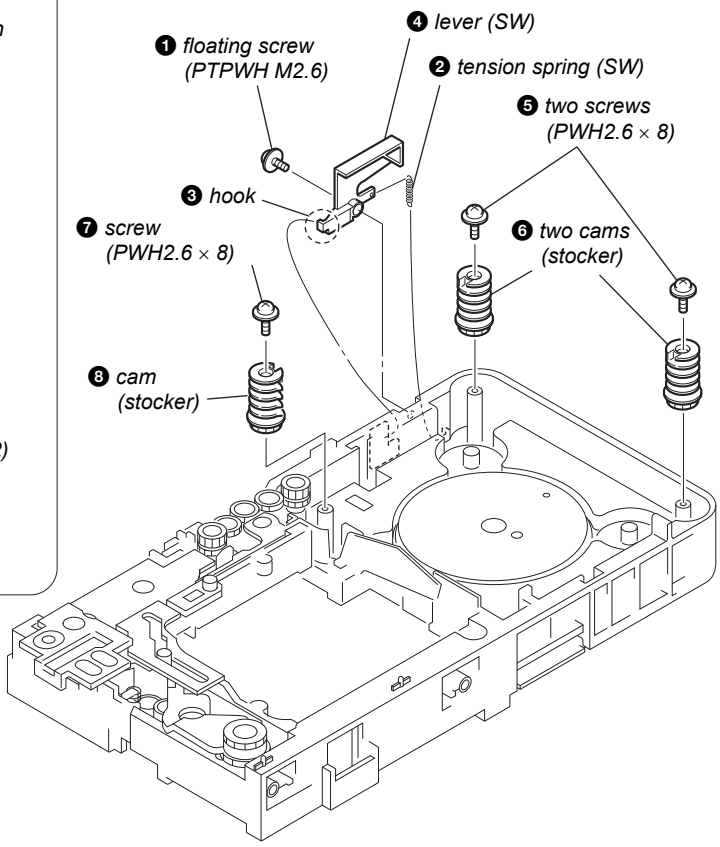


3-18. CAM (STOCKER)

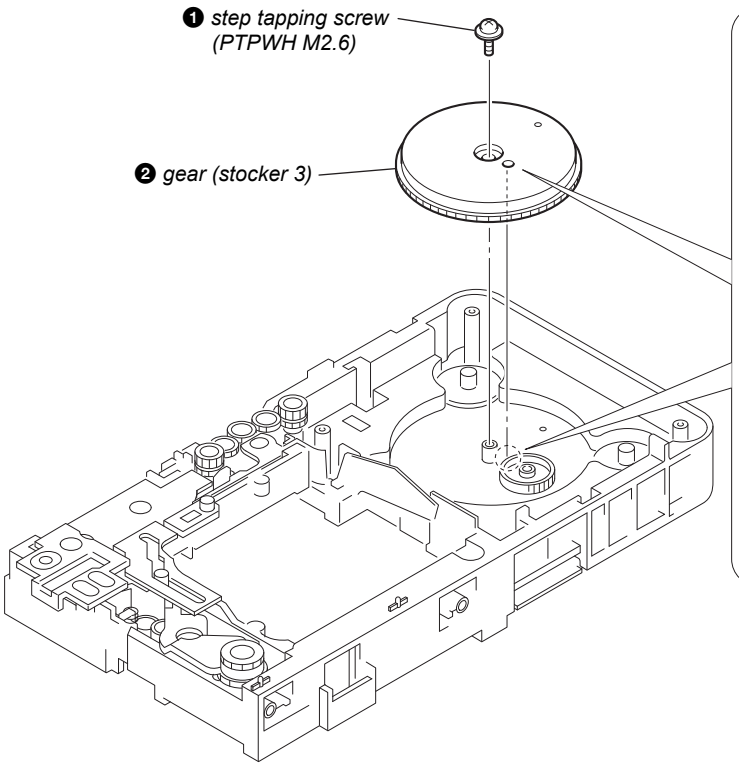
PRECAUTION DURING CAM (STOCKER) INSTALLATION

Before installing the cams (stocker), fix the gear (stocker 3) in the manner so that the hole of the gear (stocker 3) should be aligned with the hole of the chassis located beneath the gear (stocker 3). Be sure to install the cams (stocker) in such a way that the grooves of the cams (stocker) face the direction of the arrows.



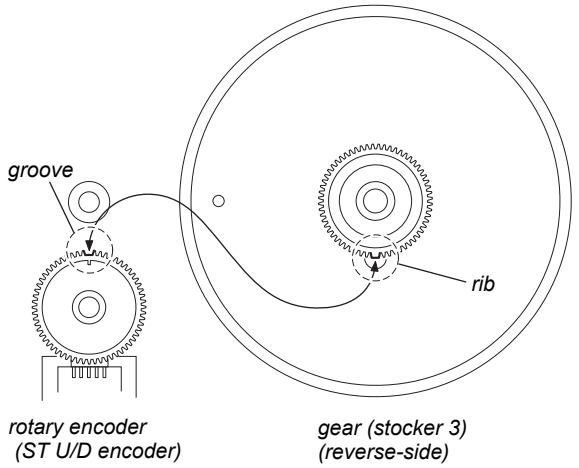


3-19. GEAR (STOCKER 3)



PRECAUTION DURING GEAR (STOCKER 3) INSTALLATION

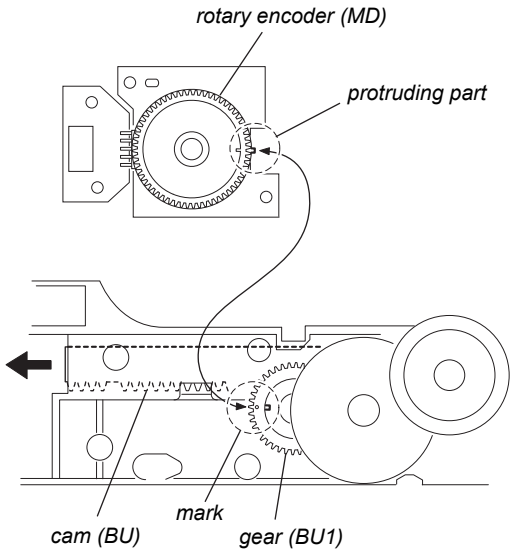
Be sure to align the rib of the gear (stocker 3) with the groove of the rotary encoder.

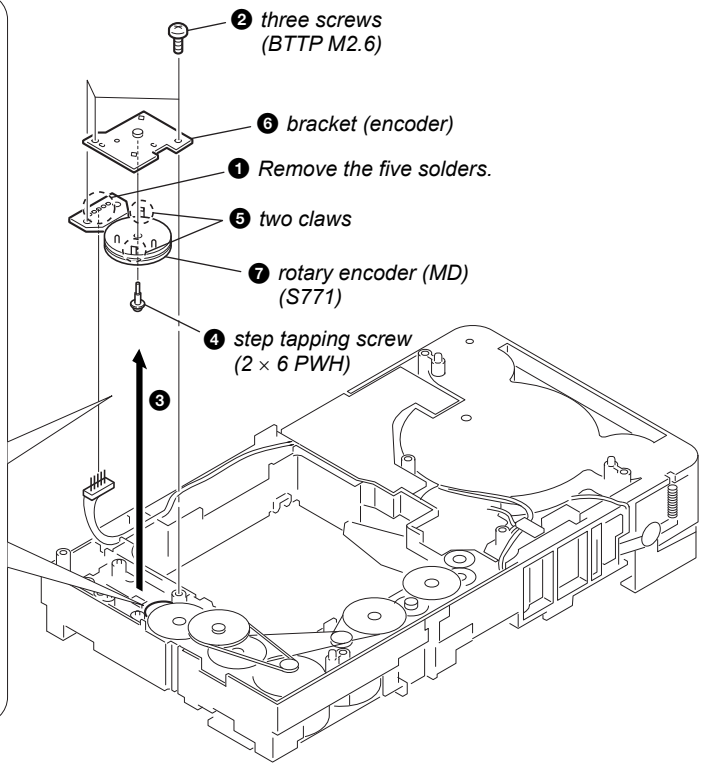


3-20. ROTARY ENCODER (MD) (S771)

PRECAUTION DURING ROTARY ENCODER (MD) INSTALLATION

Slide the cam (BU) in the direction of the arrow so that the mark of the gear (BU1) can be seen. Engage the gears while aligning the mark of the gear (BU1) with the protruding part of the rotary encoder.



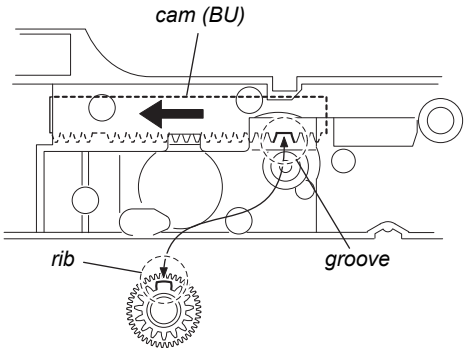


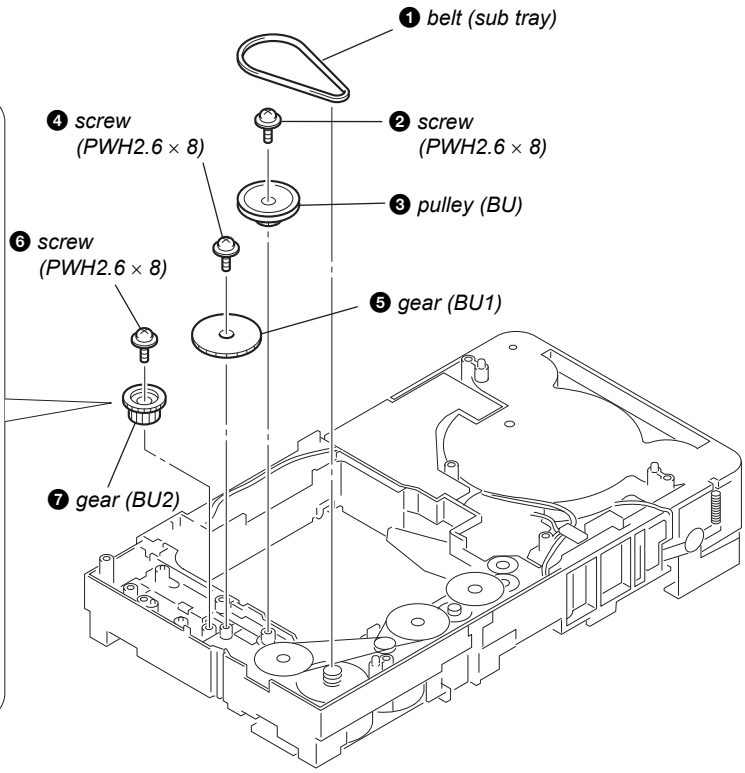
– CD mechanism deck bottom view –

3-21. GEAR (BU1)

PRECAUTION DURING GEAR (BU2) INSTALLATION

Before re-assembling, slide the cam (BU) in the direction of the arrow.
Assemble the gear (BU2) in such a manner that the groove of the cam (BU) is aligned with the rib of the gear (BU2).





– CD mechanism deck bottom view –

SECTION 4
TEST MODE

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

COLD RESET

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

Procedure:

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

PANEL TEST MODE

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

1. Display Test Mode

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press three buttons [■], [I◄◄] and [FUNCTION] simultaneously.
3. When the display test mode is activated, all segments are turned on. When the [■] button is pressed in this state, test pattern 1 is displayed on the fluorescent indicator tube. (The half of the segments on the fluorescent indicator tube are turned on) When the [■] button is pressed again, test pattern 2 is displayed on the fluorescent indicator tube. (Half the segments of the remainder on the fluorescent indicator tube are turned on) When the [■] button is pressed again, all segments are turned on.
4. To exit from this mode, press three buttons [■], [I◄◄] and [FUNCTION] simultaneously.

2. Version Test Mode

Procedure:

1. When the display test mode is activated, press the [I◄◄] button and model name is displayed, the version test mode is activated.
2. Whenever the [I◄◄] button is pressed, the display changes in order of model name → destination → MC → model name.

Note: Model name/destination is different according to model.

3. Press the [►►I] button and the date of the software production is displayed.
4. Press the [►►I] button again and the version is displayed.
5. To exit from this mode, press three buttons [■], [I◄◄] and [FUNCTION] simultaneously.

3. Key Test Mode

Procedure:

1. When the display test mode is activated, press the [►] button, to select the key test mode.
2. To enter the KEY test mode, the fluorescent indicator displays "K0 V0". Each time an another button is pressed, "K" value increases. However, once a button is pressed, it is no longer taken into account. When all keys are pressed correctly, "K12 V0" is displayed.
3. When the [VOLUME] dial is turned in the direction of (+), "V0" is changed to "V1", then ... "V9".
   When the [VOLUME] dial is turned in the direction of (–), "V0" is changed to "V9", then ... "V1".
4. To exit from this mode, press three buttons [■], [I◄◄] and [FUNCTION] simultaneously.

DISC TRAY LOCK

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

Setting Procedure:

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

Releasing Procedure:

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

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

DVD SHIP MODE

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

Procedure:

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

AM STEP CHANGE (Except HDX285: 240V AC area in E and Saudi Arabia models)

A step of AM channels can be changed over between 9 kHz and 10 kHz.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the [FUNCTION] button to set the function "TUNER AM".
3. Press the [I/⏻] button to turn the power off.
4. Press two buttons [►►I] and [I/⏻] simultaneously, and the display of fluorescent indicator tube changes to "AM 9k STEP" or "AM 10k STEP", and thus the channel step is changed over.

PRODUCT OUT

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

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Enter the DVD service mode referring to "2. ENTERING DVD SERVICE MODE" (page 25).
3. Select "Version information" pressing the [4] button on the remote commander.
4. Press the button on the remote commander in order of [DVD MENU] → [CLEAR].
5. The message "initialize..." is displayed on the fluorescent indicator tube. After a while, the message "Complete" is displayed on the fluorescent indicator tube and the display disappears.
6. The message "MECHA LOCK" ⇔ "UNPLAG" is displayed on the fluorescent indicator tube disconnect the AC power plug, then the ship mode is set.

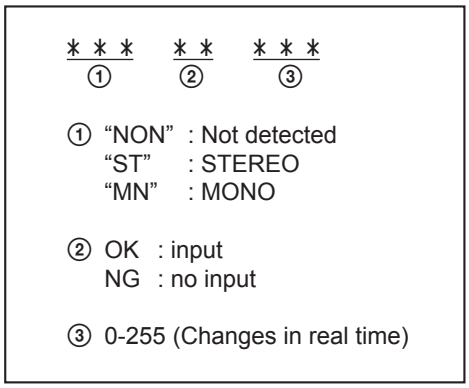
VERSION DISPLAY

This mode displays the version of the STR/DVD micro controller.
Note: Not used for the servicing.

AUTOMATIC ACOUSTIC FIELD CALIBRATION MICROPHONE TEST MODE

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Insert ECM-AC2 supplied as an accessory into the AUDIO IN/A.CAL MIC jack.
3. While pressing the [■] and [⏏] buttons simultaneously, turn the [VOLUME] dial in the direction of (–).
4. Confirm that the following are shown on the display panel.
   ① The jack inserted/non-inserted detection display and the STEREO/MONO detection display.
   ② Presence of DIGITAL voice input to the microcomputer. (OK: input, NG: no input)
   ③ The value of the MIC input to the micro controller. (shown "255h")



5. To exit this mode, press two buttons [■] and [⏏] simultaneously, turn the [VOLUME] dial in the direction of (–).

DEMO PLAY OUT

It is a mode to release the demonstration reproduct by the dedicated demonstration disc.

Procedure:

1. During playback the DEMO disc, press the [■] and [►] buttons for five seconds simultaneously.
2. The message "DEMO OFF" is displayed, a mode to reproduct the demonstration is released.

AMP TEST MODE

The examination of the AMP measurement safety standard/temperature characteristic modes can be easily executed by executing this mode in a short time.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press three buttons [■], [►] and [⏏] simultaneously.
3. The message "MEASURE" is displayed on the fluorescent indicator tube and enter the AMP measurement mode.
4. When the [DISPLAY] button on the remote commander is pressed in the state of step 3, the message "SAFETY" is displayed on the fluorescent indicator tube and enter the AMP safety standard/temperature characteristic mode.
5. When the [MUTING] button on the remote commander is pressed in the state of step 3, the message "VOL N" is displayed on the fluorescent indicator tube.
6. When the [MUTING] button on the remote commander is pressed in the state of step 5, the message "VOL M/M" is displayed on the fluorescent indicator tube and enter the volume MIN/MAX mode. In this mode, the message "VOLUME MAX" is displayed on the fluorescent indicator tube when [VOLUME +] button on the remote commander is pressed, and the message "VOLUME MIN" is displayed on the fluorescent indicator tube when [VOLUME –] button on the remote commander is pressed.
7. To exit from this mode, press the [I/⏻] button. The message "COLD RESET" is displayed on the fluorescent indicator tube for a while and all the settings are reset.

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

When an error is detected, the florescent indicator tube alternately displays
"PROTECTOR" ⇔ "PUSH POWER".
↓ Press the [I/⏻] button.
* Buttons other than the [I/⏻] button are invalid.
"STANDBY" blinks three times on the florescent indicator tube.
↓
The protection release state (POWER OFF) is established.
(No florescent indicator tube display)
↓ Press the [I/⏻] button twice.
The power to the system turns on, and the normal operation is established. (Restore)

During the protection state:

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

SD detection:

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

DC detection:

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

COLOR SYSTEM CHANGE (HDX285: 240V AC area in E and Saudi Arabia models only)

This mode let you change the color system of the video output from PAL to NTSC or vice-versa.

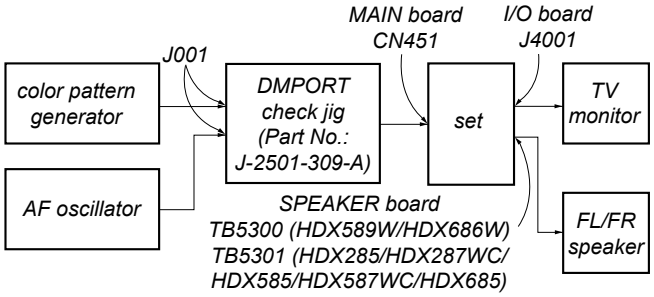
Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the [FUNCTION] button to select the "DVD".
3. Press the [I/⏻] button to turn the power off.
4. Press two buttons [I◄◄] and [I/⏻] simultaneously.
5. The message "COLOR PAL" or "COLOR NTSC" will be displayed on the fluorescent indicator tube and color system of the video output is changed.

DIGITAL MEDIA PORT TEST

Procedure:

1. Connect the DMPORT CHECK JIG (Part No.: J-2501-309-A) with the terminal DMPORT.
2. Press the [I/⏻] button to turn the power on.
3. Confirm that both LEDs of the DMPORT confirmation JIG lights. (Confirmation the power supply line.)
4. Set the [FUNCTION] button with "DMPORT" on this model.
5. Press three buttons [■], [►] and [FUNCTION] simultaneously, the DMPORT test mode is activated.
6. It is confirmed that "DMPORT OK" is displayed on this set display. (Confirmation of communication line)
7. To a pinjack of the DMPORT confirmation JIG input information relevant to audio signal (sine-wave 1.0Vrms) and composite video signal (white 100% 1.0 Vp-p, color bar, etc.)
8. Confirm the output of speakers and monitor TV. (Confirmation of analog signal)
9. To exit from this mode, press three buttons [■], [►] and [FUNCTION] simultaneously.



DVD SECTION

1. DVD SERVICE MODE GENERAL DESCRIPTION

This mode let you make diagnosis and adjustment easily by using the remote commander and the TV screen. The instructions, diagnostic results, etc. are given on the on-screen display.

Be sure to execute the IOP measurement when a base unit is replaced.

Note: In this mode, disregard it because it doesn't use them in the servicing though the message such as "2A0" might be displayed on the fluorescent indicator tube.

2. ENTERING DVD SERVICE MODE

Procedure:

1. Press the [I/⏻] button to turn on the system.
2. Press the [FUNCTION] button repeatedly to select the "DVD".
3. While pressing the [■] and [⏏] buttons simultaneously, turn [VOLUME] dial in the direction of (+) with the DVD player in power on.
4. The message "SERVICE IN" appears on the fluorescent indicator tube and top menu of the Remocon Diagnosis Menu appears on the on-screen display on the TV screen as follows. The model name, IF-con version and Syscon version are displayed at the bottom of the on-screen display.

```
        Remocon Diagnosis Menu

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



Model Name    :xxxx_xx
IF-con:Ver.xx.xx(xxxx)
Syscon:Ver.x.xxx
```

5. To execute each function, press its number by using numeric button on the remote commander.
6. To release from this mode, press the [I/⏻] button to turn off the system.

3. EXECUTING IOP MEASUREMENT

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

Procedure:

1. From the top menu of Remocon Diagnosis Menu, select "2 Drive Manual Operation" by pressing the [2] button on the remote commander. The following screen appears on the on-screen display

```
        Drive Manual Operation

1. Servo Control
2. Track/Layer Jump
3. Manual Adjustment
4. Mecha test mode
5. MIRR time Adjust
0. Return to Top Menu
```

2. Select “3. Manual Adjustment” by pressing the [3] button on the remote commander. The following screen appears on the on-screen display.

```
            Manual Adjust
1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eq Boost Adjust:
6. Iop:
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:
[🡅][🡇]  Change Value
[RETURN]Return to previous menu
```

3. Select “6. Iop:” by pressing [6] button on the remote commander.
4. Wait until a hexadecimal number appear in the on-screen display as below.

```
            Manual Adjust
1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eq Boost Adjust:
6. Iop: ED:
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:
[🡅][🡇]  Change Value
[RETURN]Return to previous menu
```

5. Convert data from hexadecimal to decimal by using conversion table.
6. If the value is smaller than 93 (decimal), then it is OK. However if the value is higher than 93, then BU (base unit) is defective and need to be change.
7. Press the [↩ RETURN] button on the remote commander to return to previous menu.
8. Press the [0] button on the remote commander to return to the top menu of Remocon Diagnosis Menu.
9. Press the [I/⏻] button to turn off the system.

4. CHECKING EMERGENCY HISTORY

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

Procedure:

1. From the top menu of Remocon Diagnosis Menu, select “3. Emergency History” by pressing the [3] button on the remote commander. The following screen appears on the on-screen display.

```
          Emg. History Check
Laser Hours      CD    999h  59min
                 DVD   999h  59min

01. 01 05 04 04       00 92 46 00
    00 00 00 00       00 00 23 45

02. 02 02 01 01       00 A9 4B 00
    00 00 00 00       00 00 23 45


[Next]Next page [Prev]Prev page
[0]Return to Top Menu
```

2. You can check the total time when the laser is turned on during playback of DVD and CD from the above menu. The maximum time, which can be displayed are 999h 59min.
3. You can check the error code of latest 10 emergency history from the above menu. To view the previous or next page of emergency history, press the [⏮] or [⏭] button on the remote commander. The error code consists of three kinds of error codes.

A. Error code

```
        Example of Error code

01. [01] 05 04 04       00 92 46 00
     00 00 00 00        00 00 23 45
```

The meaning of error code is as below:

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

B. Parameter of error code
This is the detail of error code.

```
        Example of Error code

01. 01 05 04 04       00 92 46 00
    00 00 00 00       00 00 23 45
```

C. Time of error code
This is the laser time when an error occurred.

```
        Example of Error code

01. 01 05 04 04       00 92 46 00
    00 00 00 00       00 00 23 45
```

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

```
          Emg. History Check
Laser Hours      CD       0h    0min
                 DVD      0h    0min

01. 01 05 04 04       00 92 46 00
    00 00 00 00       00 00 23 45

02. 02 02 01 01       00 A9 4B 00
    00 00 00 00       00 00 23 45


[Next]Next page [Prev]Prev page
[0]Return to Top Menu
```

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

```
          Emg. History Check
Laser Hours      CD     999h   59min
                 DVD    999h   59min

01. 00 00 00 00       00 00 00 00
    00 00 00 00       00 00 00 00

02. 00 00 00 00       00 00 00 00
    00 00 00 00       00 00 00 00


[Next]Next page [Prev]Prev page
[0]Return to Top Menu
```

To Execute the Initialize Setup Data
Procedure:
1. Press the [DVD MENU] button on the remote commander and then press the [CLEAR] button on the remote commander. The following screen appears on the on-screen display.

```
          Emg. History Check
Laser Hours      CD     999h   59min
                 DVD    999h   59min

Initialize setup data...




[Next]Next page [Prev]Prev page
[0]Return to Top Menu
```

2. The screen after a while returns to former display.

To Return to the Top Menu of Remocon Diagnosis Menu
Press the [0] button on the remote commander.

5. CHECKING VERSION INFORMATION
To check the version information, please follow the following procedure.
Procedure:
1. From the top menu of Remocon Diagnosis Menu, select "4. Version Information" by pressing the [4] button on the remote commander. The following screen appears on the on-screen display.

```
          Version information

Firm(Main): Ver. X.XXXX
Firm(Sub): XX.XX
RISC: XXXXXX
8032: XXXXXX
Audio DSP: XX.XX.XX.XX
Servo DSP: XX.XX.XX.XX
Phy. Adr.: X.X.X


[0]Return to Top Menu
```

2. To return to the top menu of Remocon Diagnosis Menu, press the [0] on the remote commander.

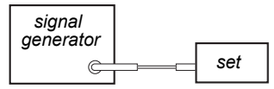
DVD SECTION

When the base unit is replaced, perform the adjustment and the measurement as shown below in this order.

EXECUTING IOP MEASUREMENT (See page 25)

TUNER SECTION

FM TUNE LEVEL CHECK



Procedure:
1. Turn on the set.
2. Input the following signal from signal generator to FM antenna input directly.

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

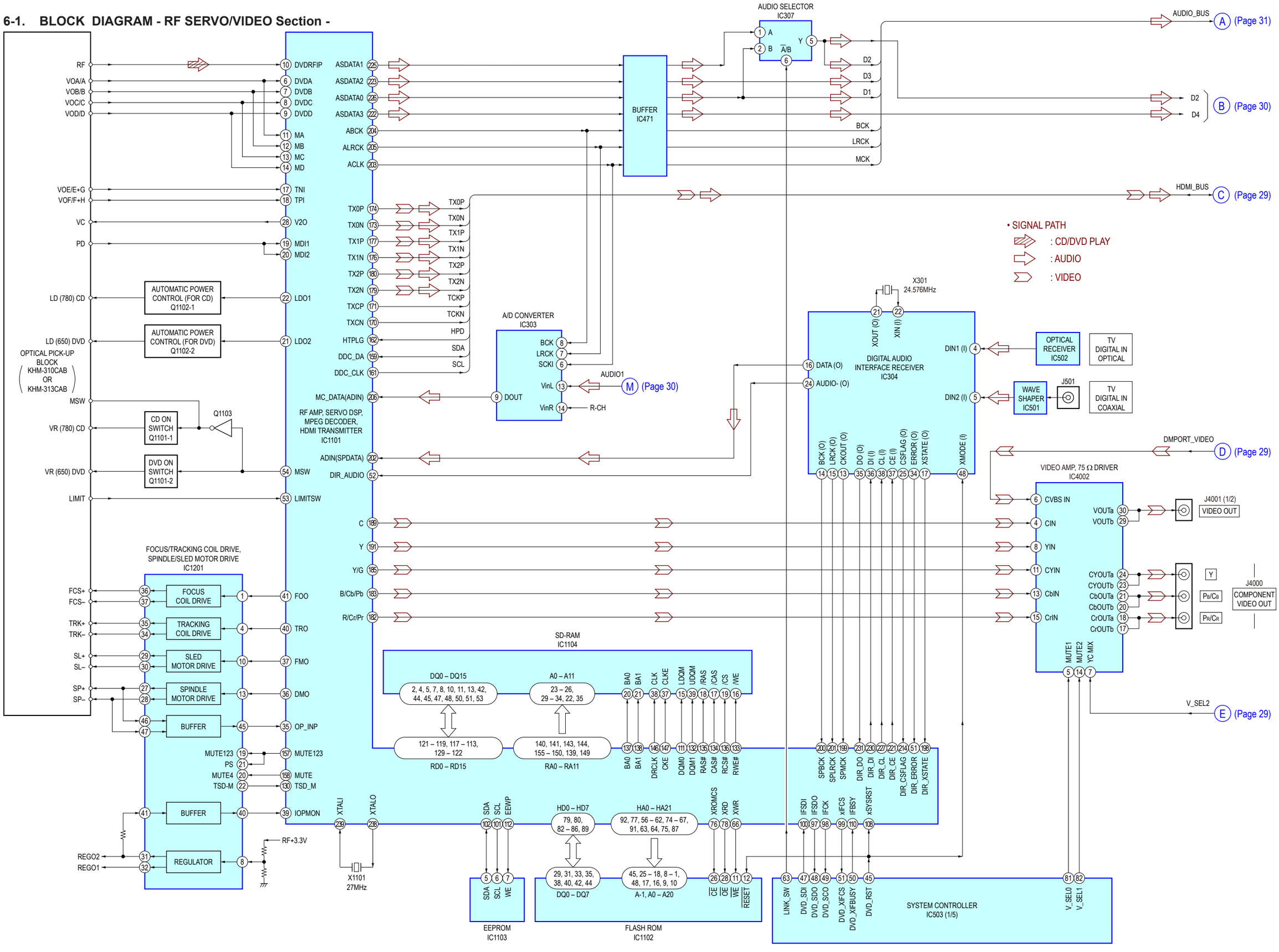
Note: Use 75 ohm coaxial cable to connect signal generator and the set.
You cannot use video cable for checking.
Use signal generator whose output impedance is 75 ohm.

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

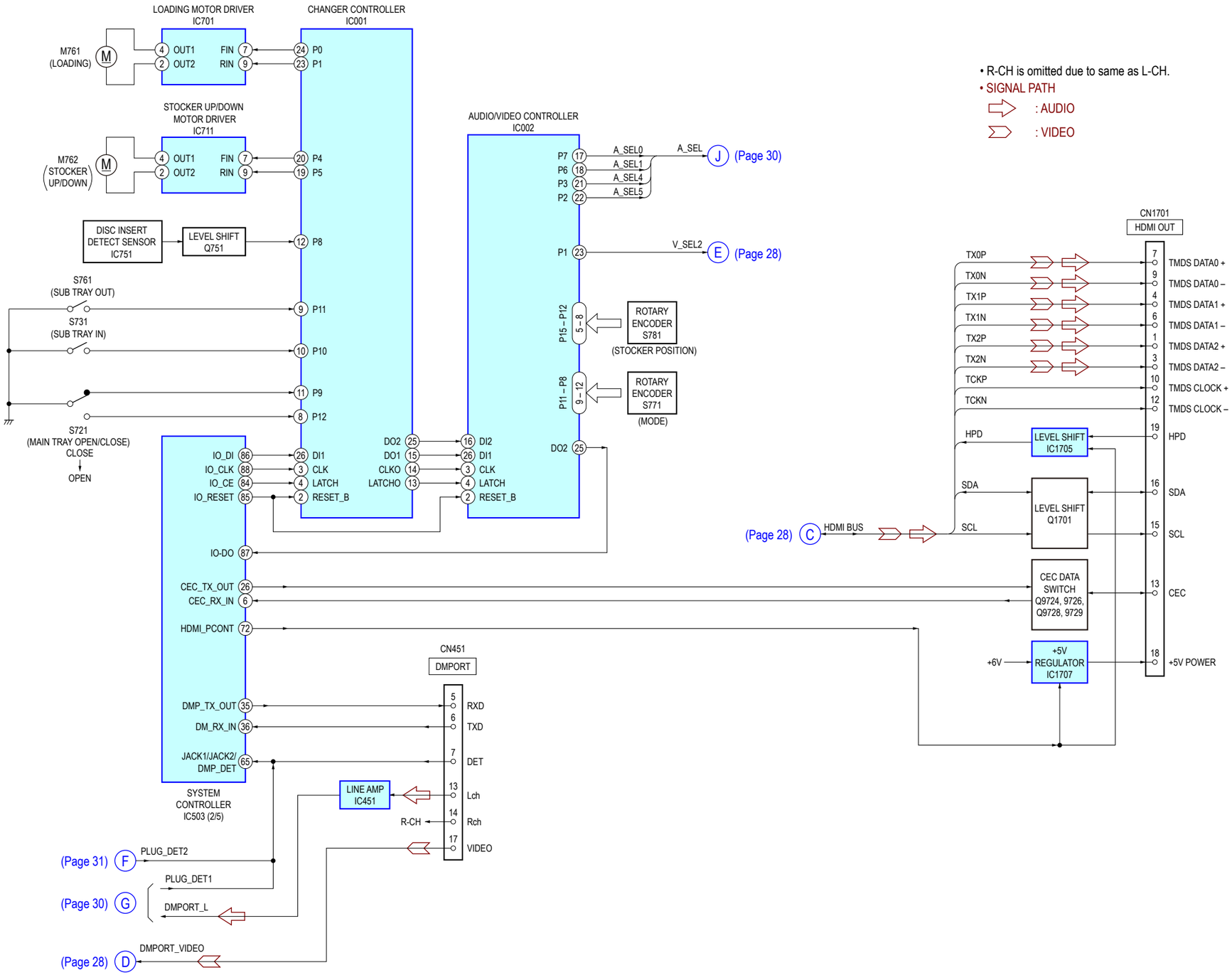
When the selected station signal is received in good condition, "TUNED" is displayed.

SECTION 6
DIAGRAMS

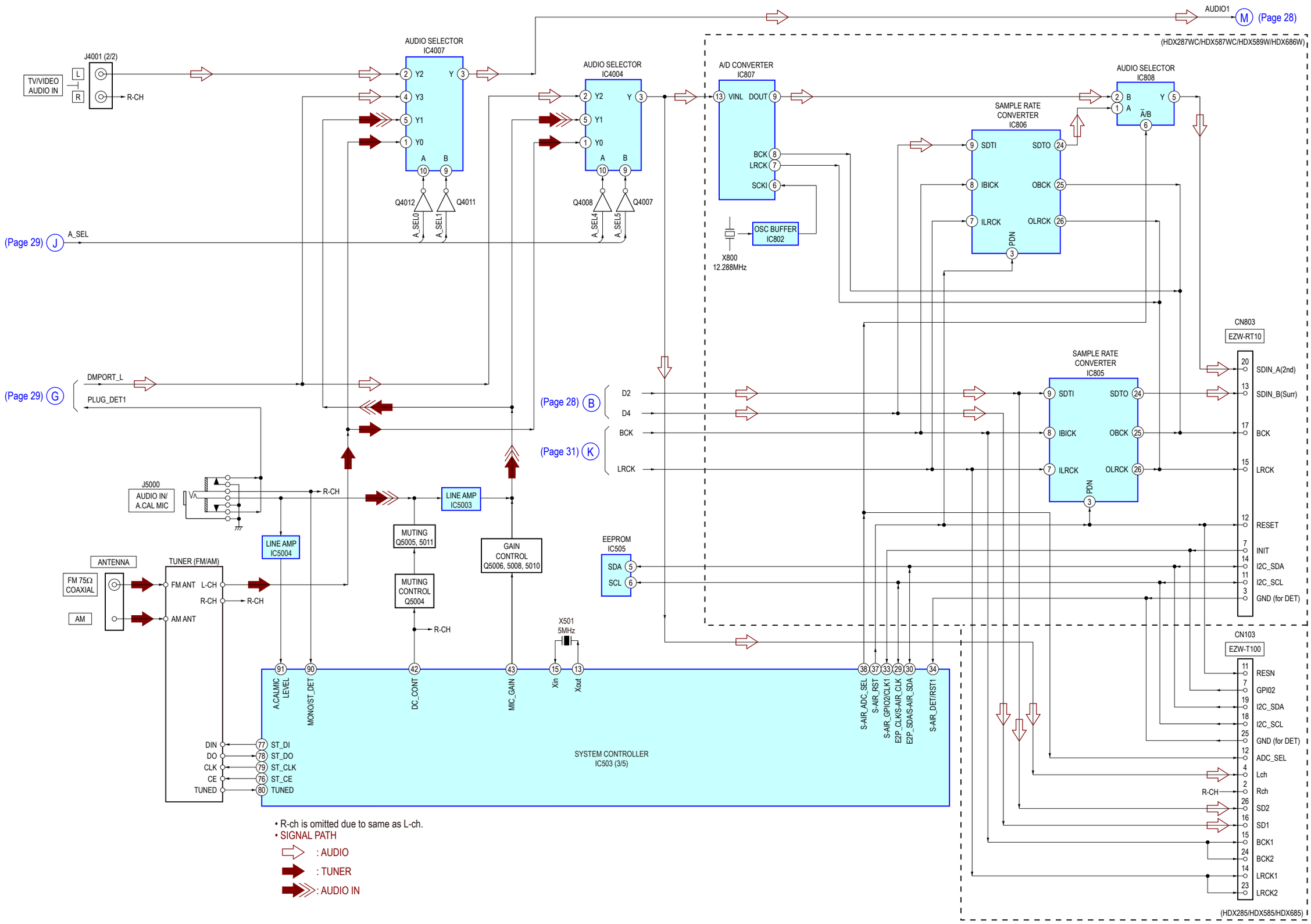
6-1. BLOCK DIAGRAM - RF SERVO/VIDEO Section -



6-2. BLOCK DIAGRAM - CHANGER/HDMI/DMPORT Section -

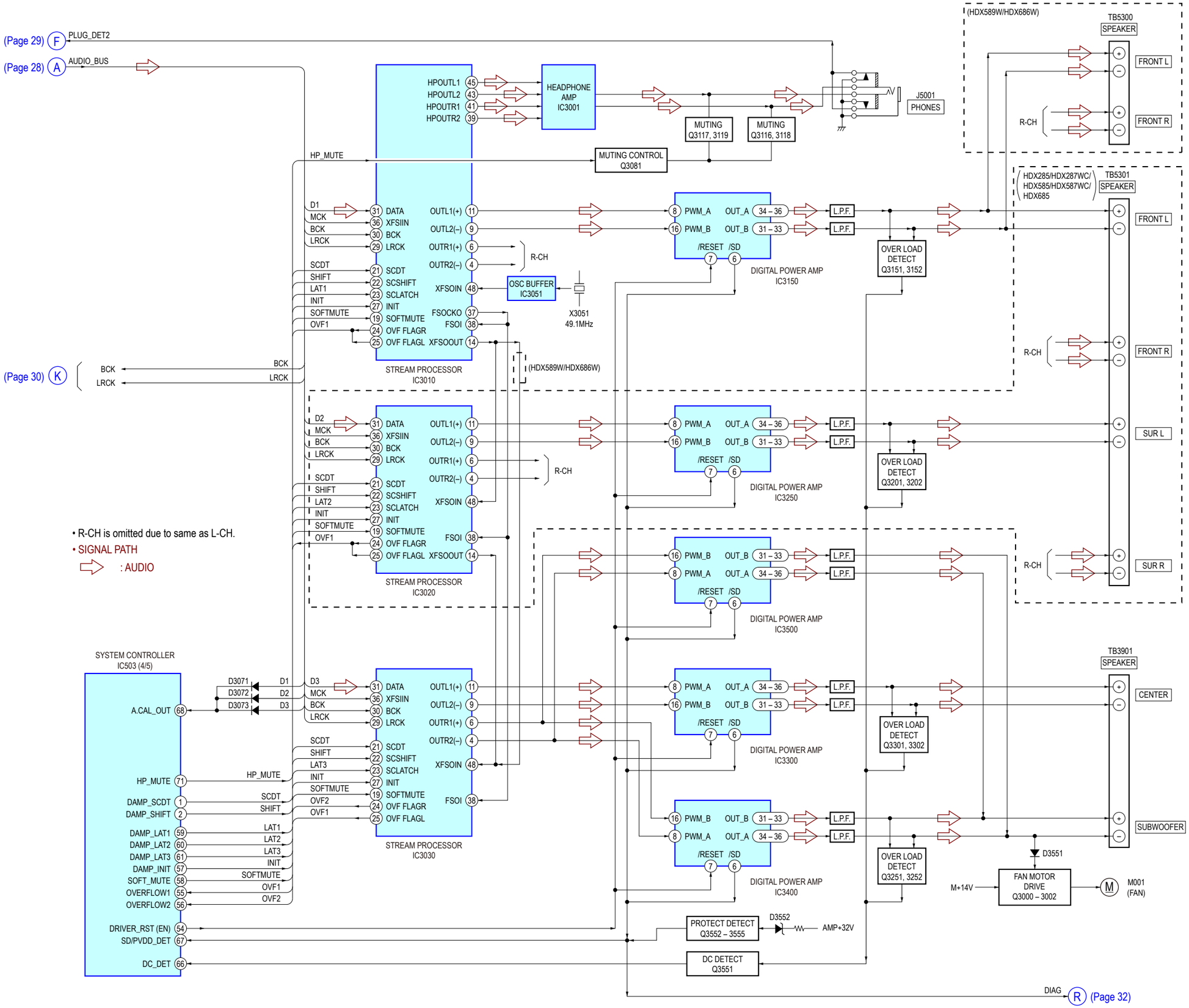


6-3. BLOCK DIAGRAM - TUNER/S-AIR Section -

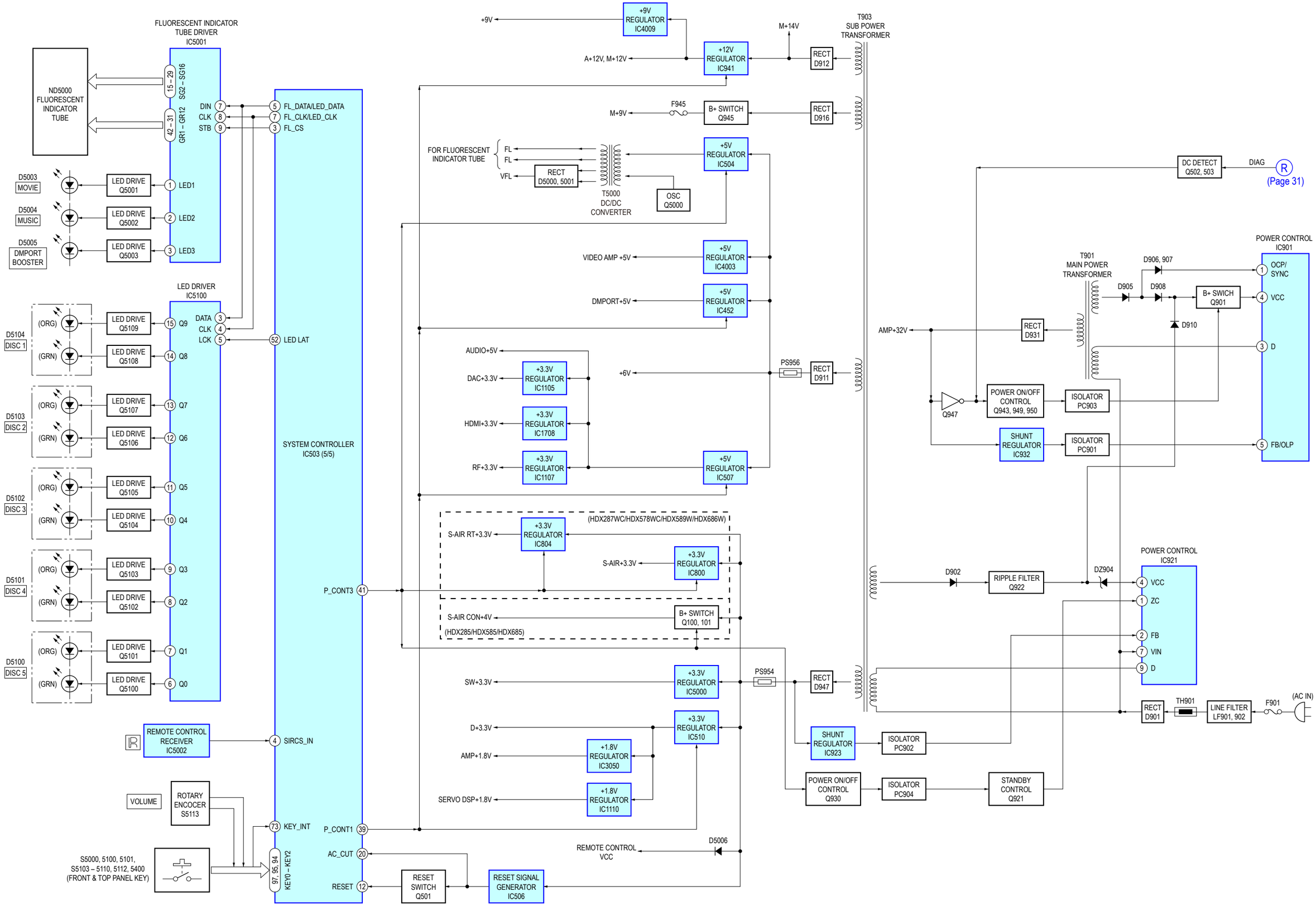


• R-ch is omitted due to same as L-ch.
• SIGNAL PATH
: AUDIO
: TUNER
: AUDIO IN

6-4. BLOCK DIAGRAM - AMP Section -



6-5. BLOCK DIAGRAM - PANEL/POWER SUPPLY Section -



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

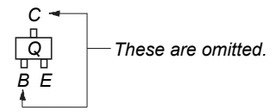
For Printed Wiring Boards.

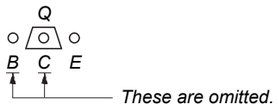
Note:

- ○——: parts extracted from the component side.
- ——: parts extracted from the conductor side.
- △ : internal component.
- : Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

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





- Abbreviation
  CND : Canadian model
  E3 : 240V AC area in E model
  EA : Saudi Arabia model

For Schematic Diagrams.

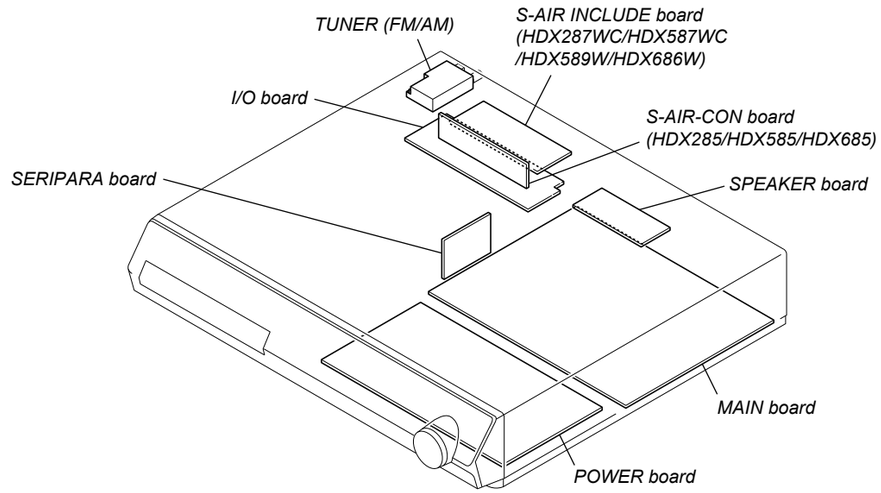
Note:

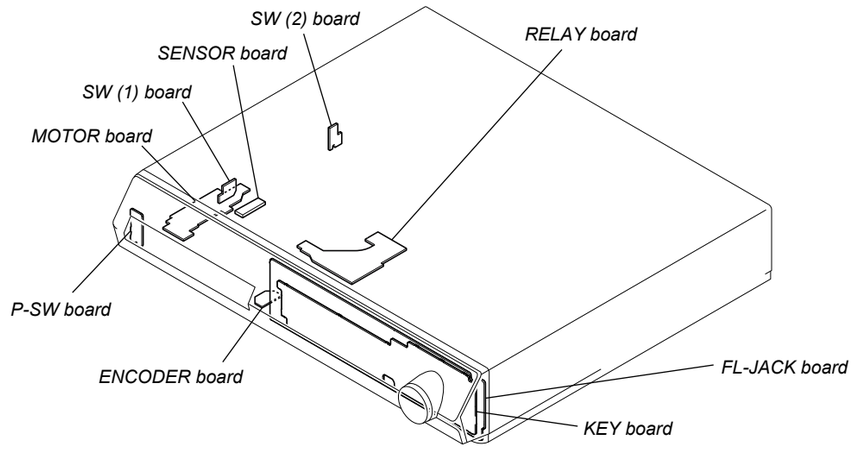
- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

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

- : B+ Line.
- : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark: TUNER
  [ ]: DVD PLAY
  ＊ : Impossible to measure
- Voltages are taken with VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : AUDIO
  : CD/DVD PLAY
  : TUNER
  : AUDIO IN
  : VIDEO
- Abbreviation
  CND : Canadian model
  E3 : 240V AC area in E model
  EA : Saudi Arabia model

- **Circuit Boards Location**



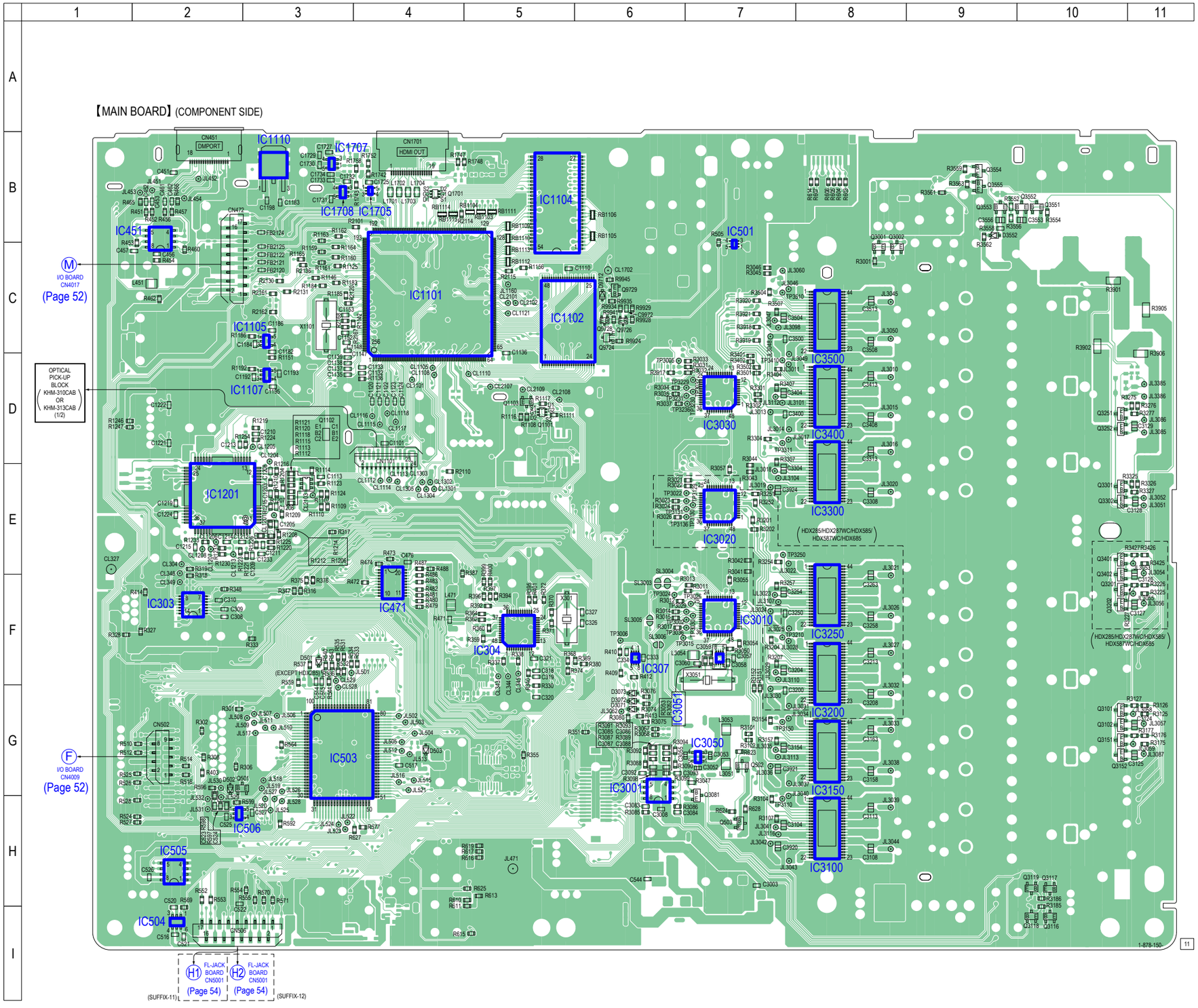


6-6. PRINTED WIRING BOARD - MAIN Board (Component Side) -

• See page 33 for Circuit Boards Location. • : Uses unleaded solder.

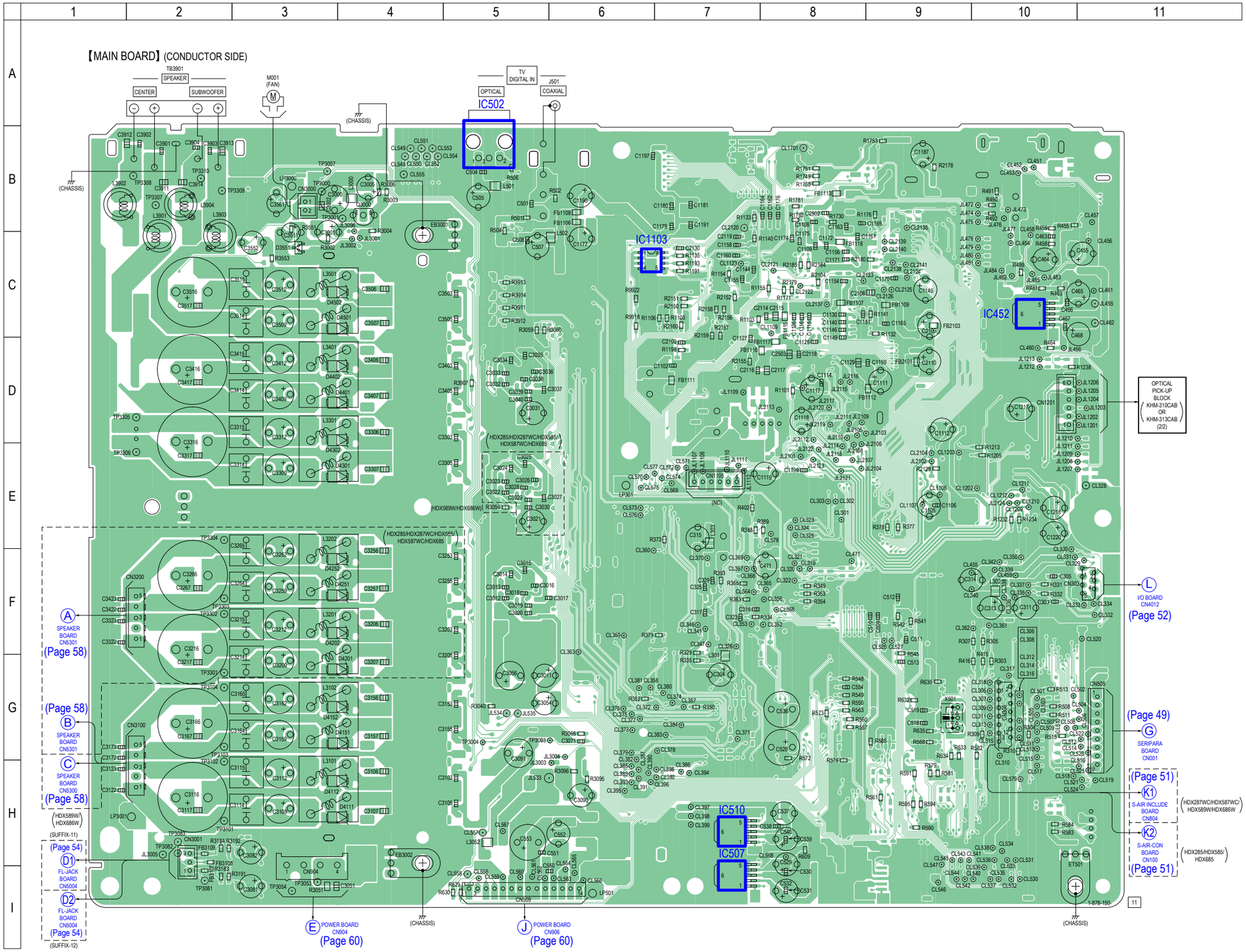
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D501	F-3	IC3300	E-8
D502	G-2	IC3400	D-8
D503	G-4	IC3500	C-8
D3071	G-6		
D3072	G-6	Q501	G-3
D3073	G-6	Q502	G-7
D3552	B-9	Q503	H-7
D9712	C-6	Q1101	D-5
		Q1102	E-3
IC303	F-2	Q1103	D-5
IC304	F-5	Q1701	B-4
IC307	F-6	Q3001	C-8
IC451	B-1	Q3002	C-8
IC471	F-4	Q3081	H-7
IC501	C-7	Q3101	G-10
IC503	G-3	Q3102	G-10
IC504	I-2	Q3116	I-10
IC505	H-2	Q3117	H-10
IC506	H-2	Q3118	I-10
IC1101	C-4	Q3119	H-10
IC1102	C-5	Q3151	G-10
IC1104	B-5	Q3152	G-10
IC1105	C-3	Q3201	F-10
IC1107	D-3	Q3202	F-10
IC1110	B-3	Q3251	D-10
IC1201	E-2	Q3252	D-10
IC1705	B-4	Q3301	E-10
IC1707	B-3	Q3302	E-10
IC1708	B-3	Q3401	E-10
IC3001	G-6	Q3402	F-10
IC3010	F-7	Q3551	B-10
IC3020	E-7	Q3552	B-10
IC3030	D-7	Q3553	B-9
IC3050	G-7	Q3554	B-9
IC3051	F-7	Q3555	B-9
IC3100	H-8	Q9724	C-6
IC3150	G-8	Q9726	C-6
IC3200	F-8	Q9728	C-6
IC3250	F-8	Q9729	C-6



6-7. PRINTED WIRING BOARD - MAIN Board (Conductor Side) -

• See page 33 for Circuit Boards Location. • : Uses unleaded solder.

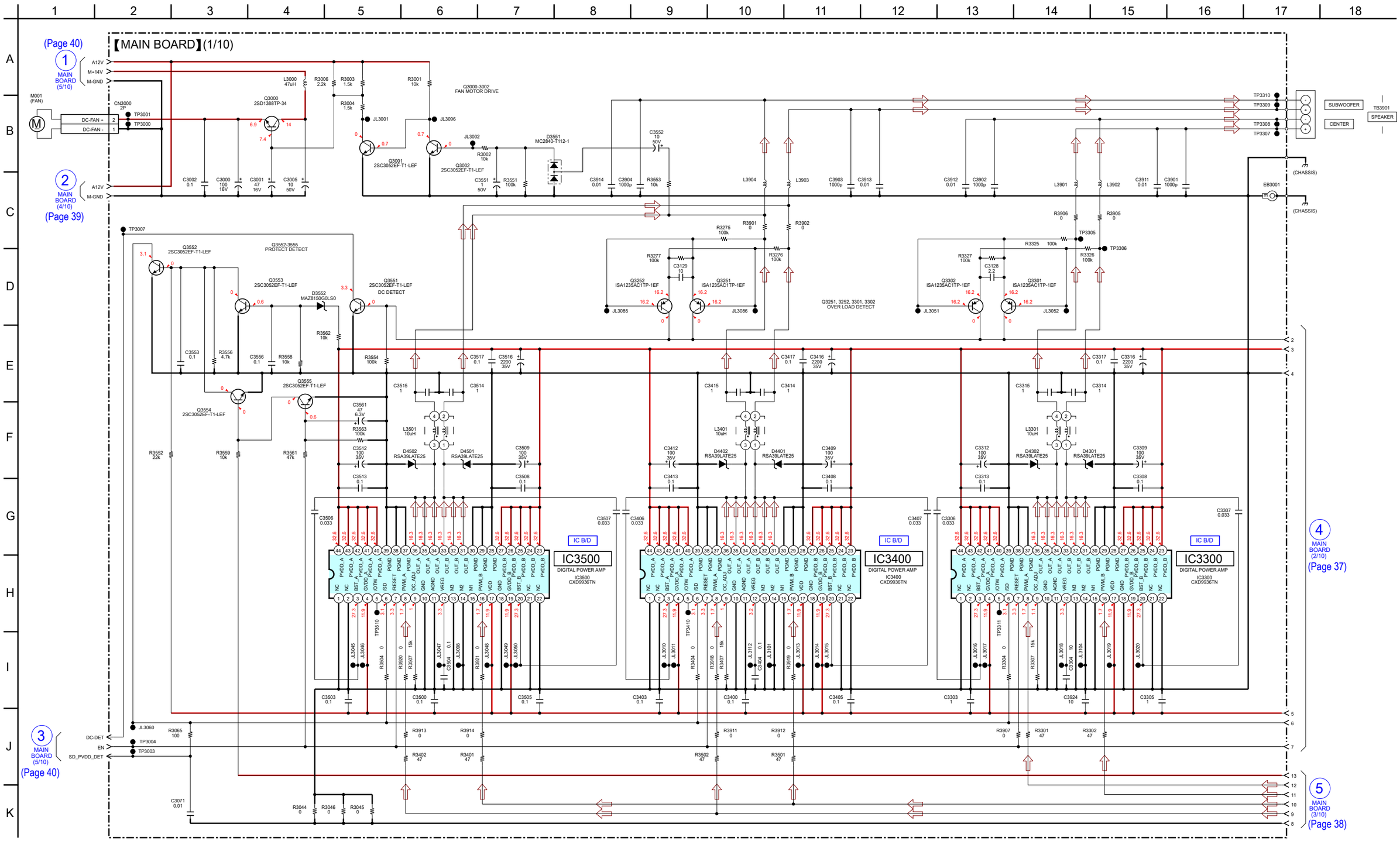


• **Semiconductor Location**

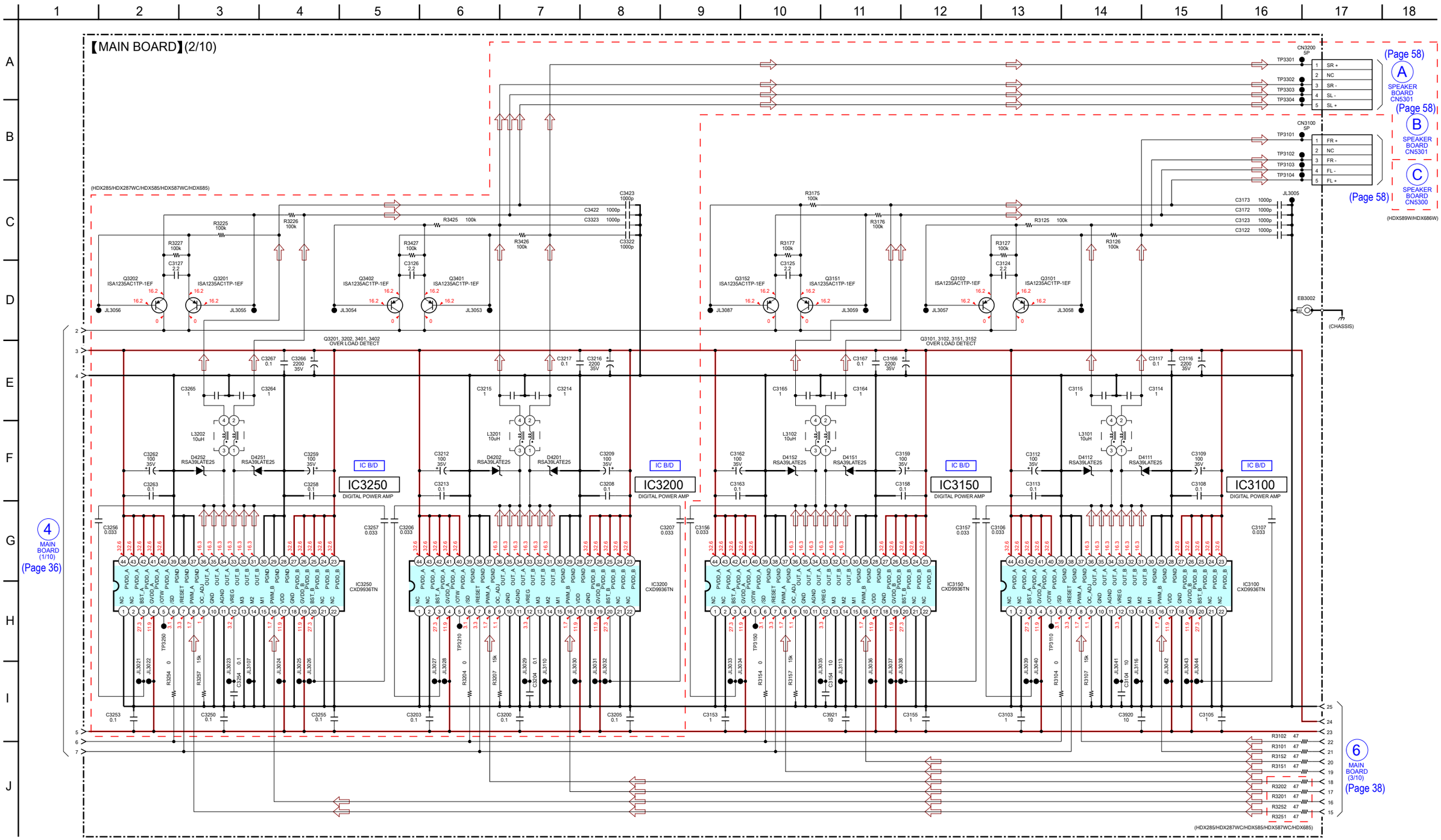
Ref. No.	Location	Ref. No.	Location
D3551	C-3	D4402	D-4
D4111	H-4	D4501	C-4
D4112	H-4	D4502	C-4
D4151	G-4		
D4152	G-4	IC452	C-10
D4201	G-4	IC502	B-5
D4202	F-4	IC507	I-7
D4251	F-4	IC510	H-7
D4252	F-4	IC1103	C-6
D4301	E-4		
D4302	E-4	Q3000	B-4
D4401	D-4		

Note: IC1103 cannot exchange with single. When this part is damaged, exchange the entire mounted board.

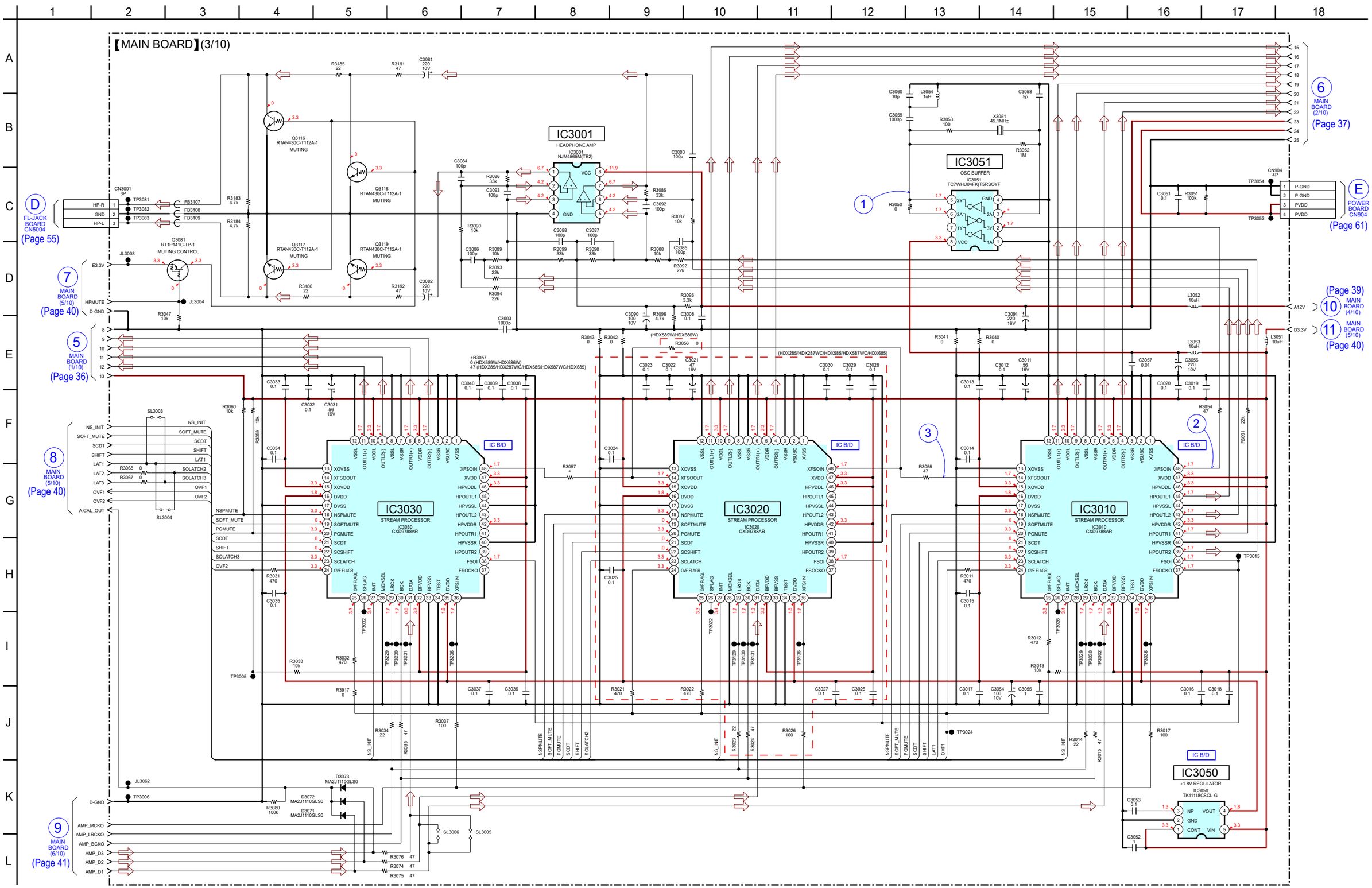
6-8. SCHEMATIC DIAGRAM - MAIN Board (1/10) - • See page 62 for IC Block Diagrams.



6-9. SCHEMATIC DIAGRAM - MAIN Board (2/10) - • See page 62 for IC Block Diagrams.

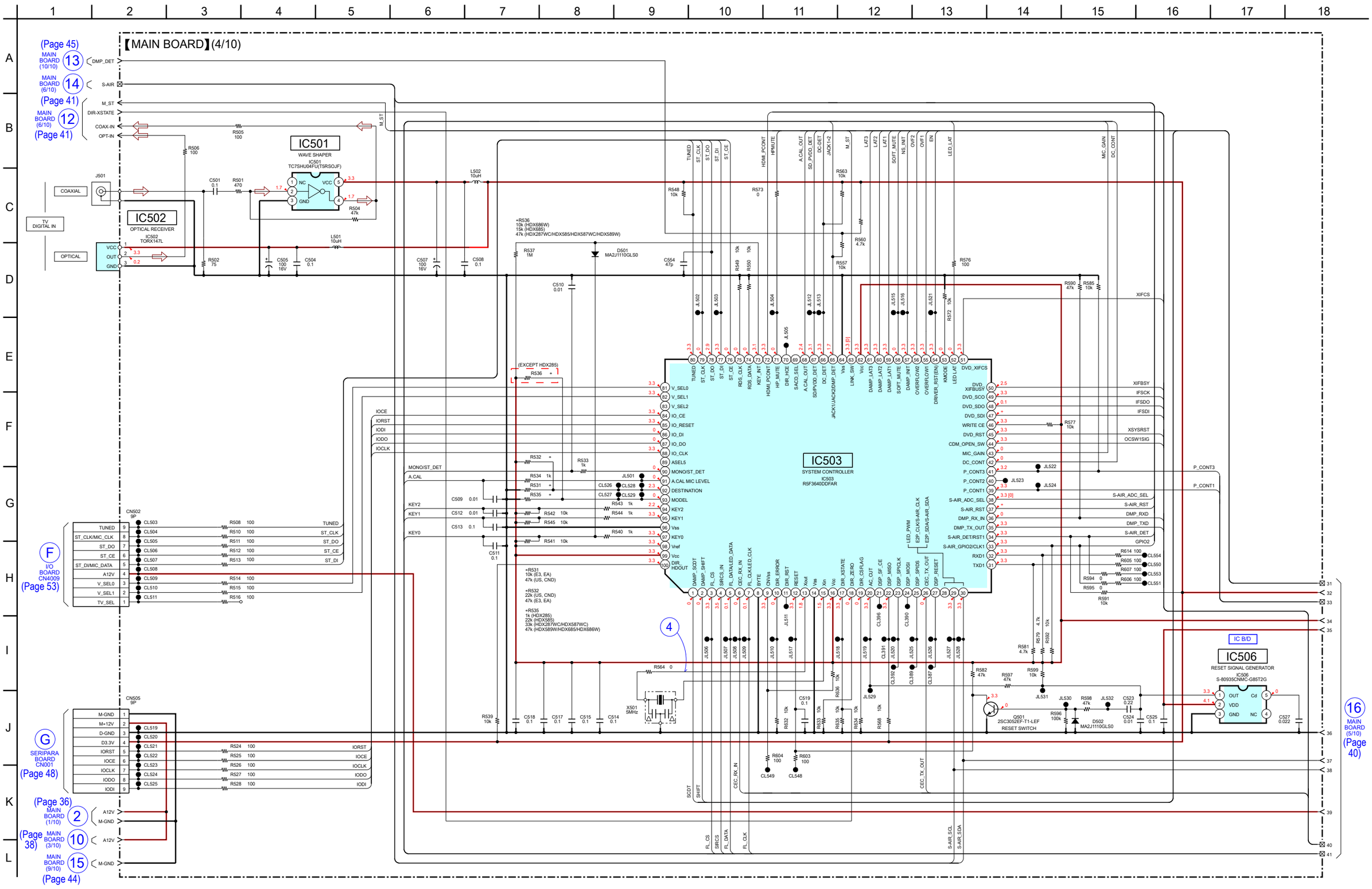


6-10. SCHEMATIC DIAGRAM - MAIN Board (3/10) - • See page 59 for Waveforms. • See page 62 for IC Block Diagrams.

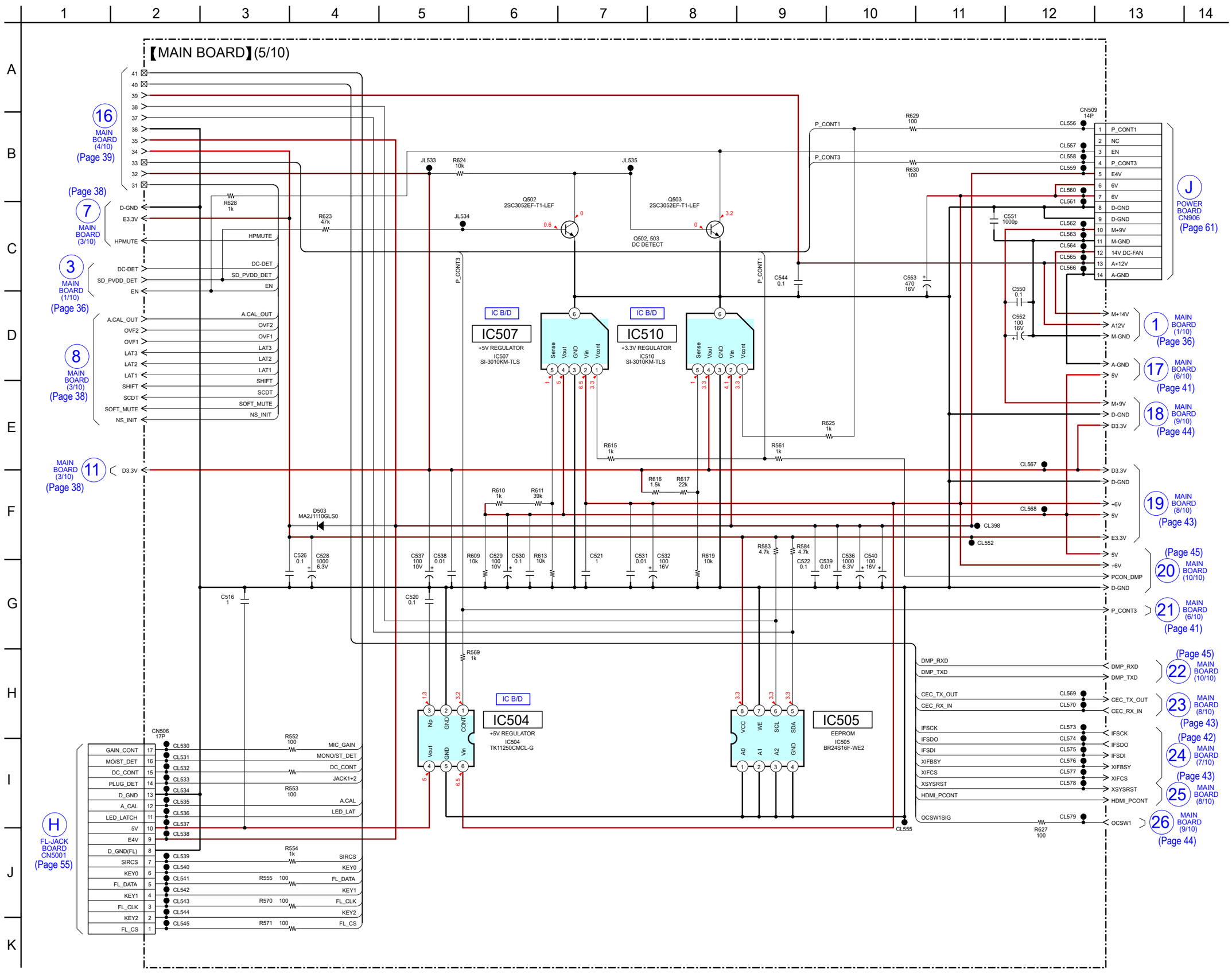


6-11. SCHEMATIC DIAGRAM - MAIN Board (4/10) -

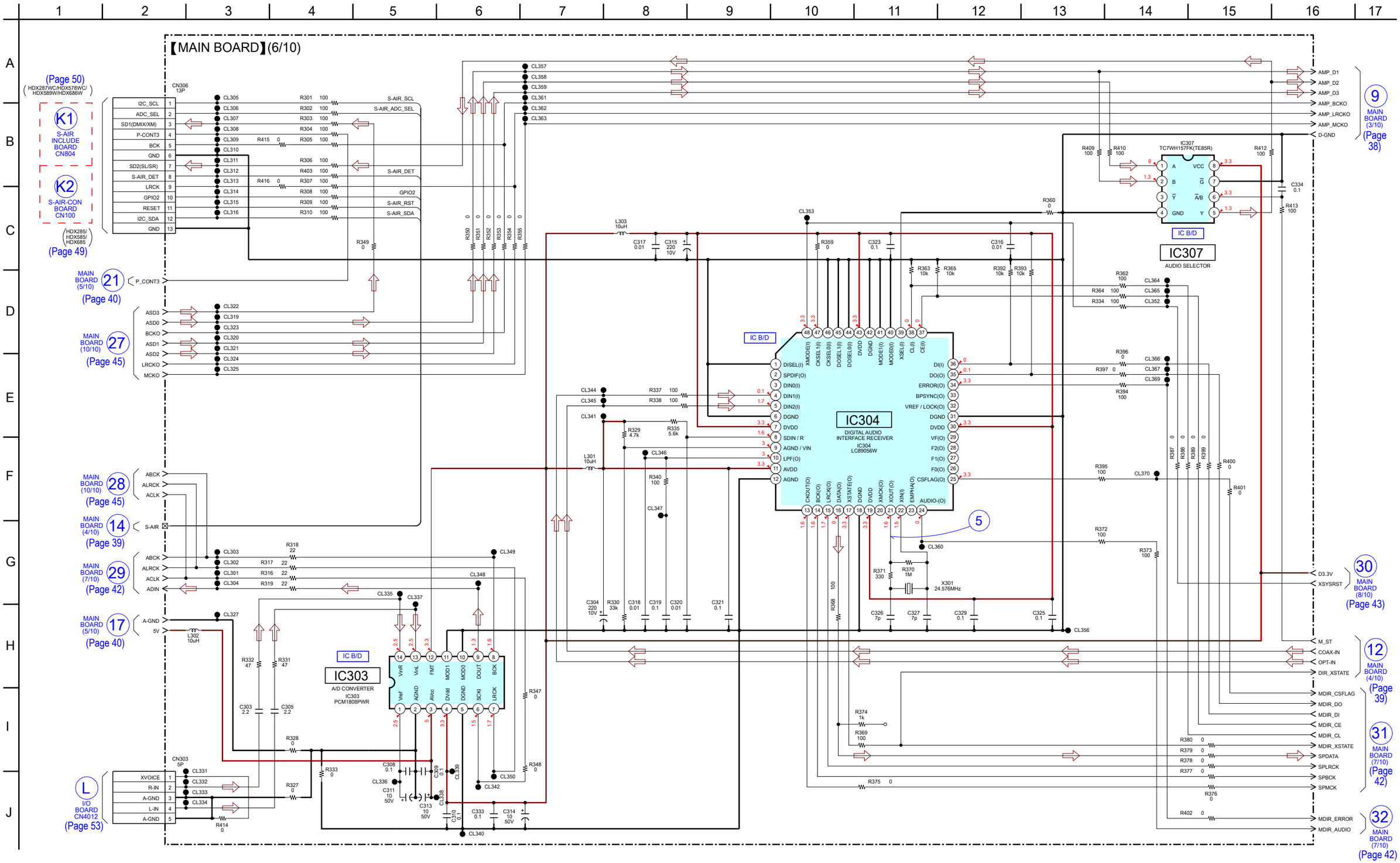
• See page 59 for Waveforms. • See page 62 for IC Block Diagrams. • See page 70 for IC Pin Function Description.



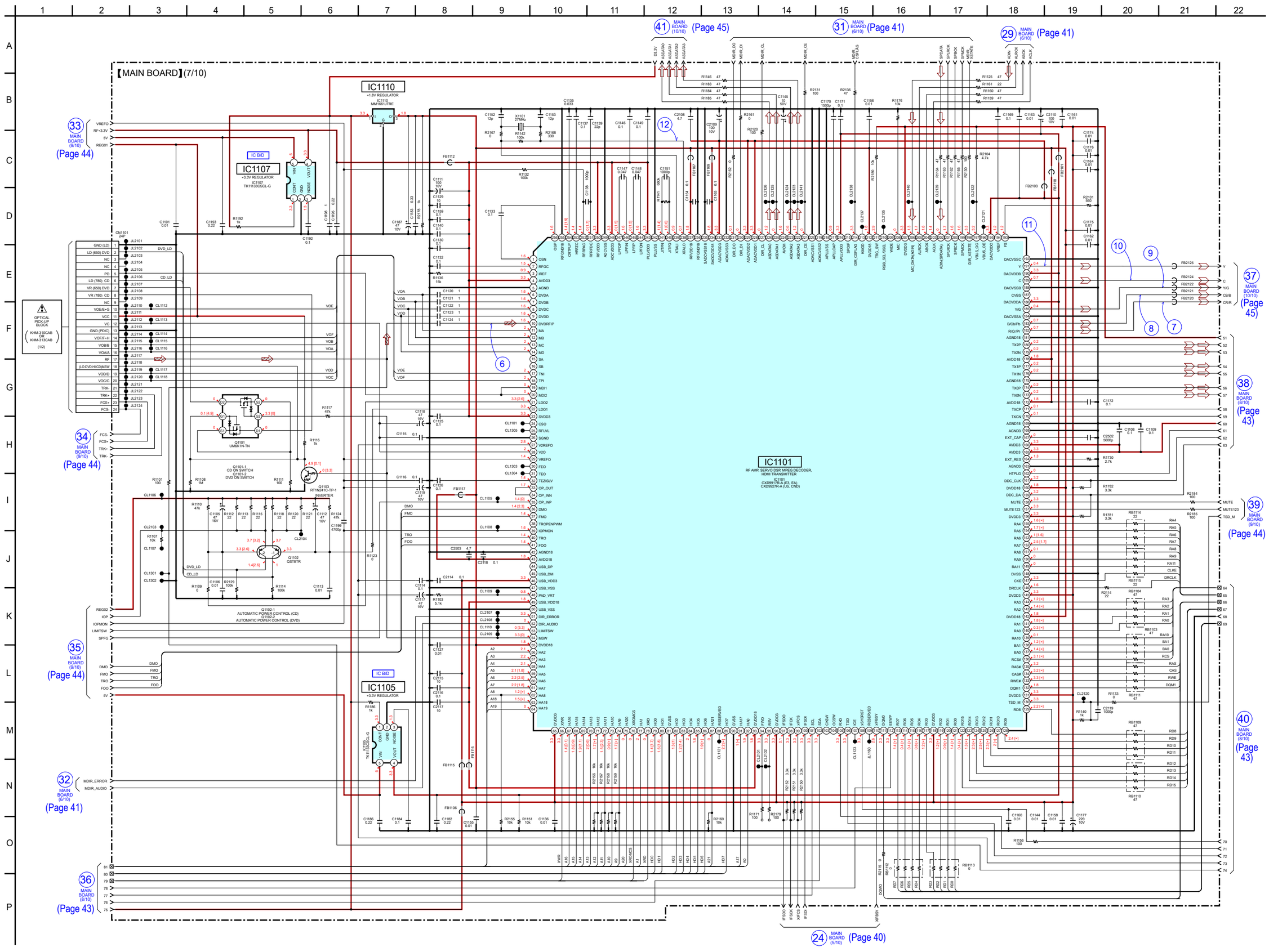
6-12. SCHEMATIC DIAGRAM - MAIN Board (5/10) - • See page 62 for IC Block Diagrams.



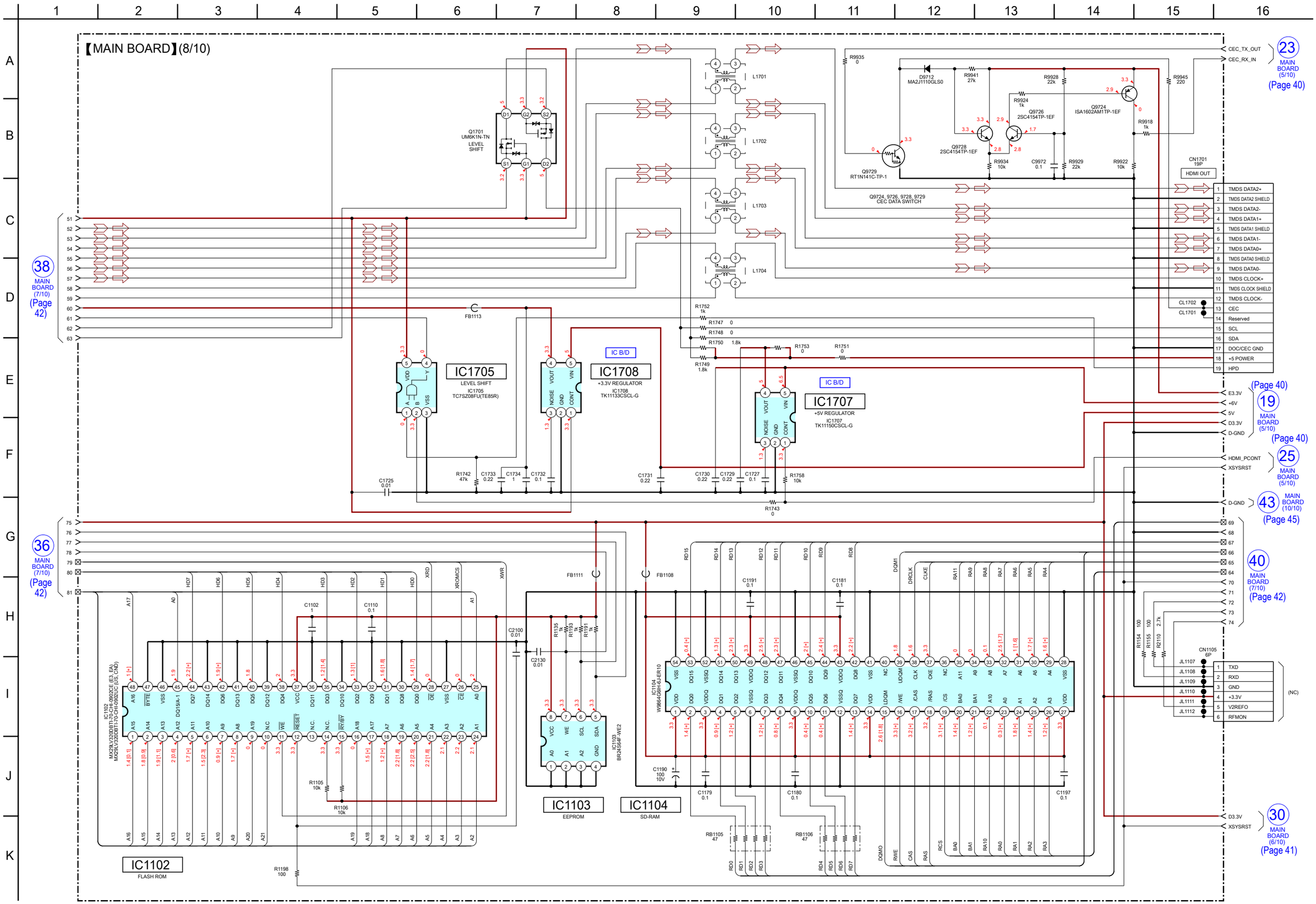
6-13. SCHEMATIC DIAGRAM - MAIN Board (6/10) - • See page 59 for Waveforms. • See page 62 for IC Block Diagrams.



6-14. SCHEMATIC DIAGRAM - MAIN Board (7/10) - • See page 59 for Waveforms. • See page 62 for IC Block Diagrams. • See page 70 for IC Pin Function Description.

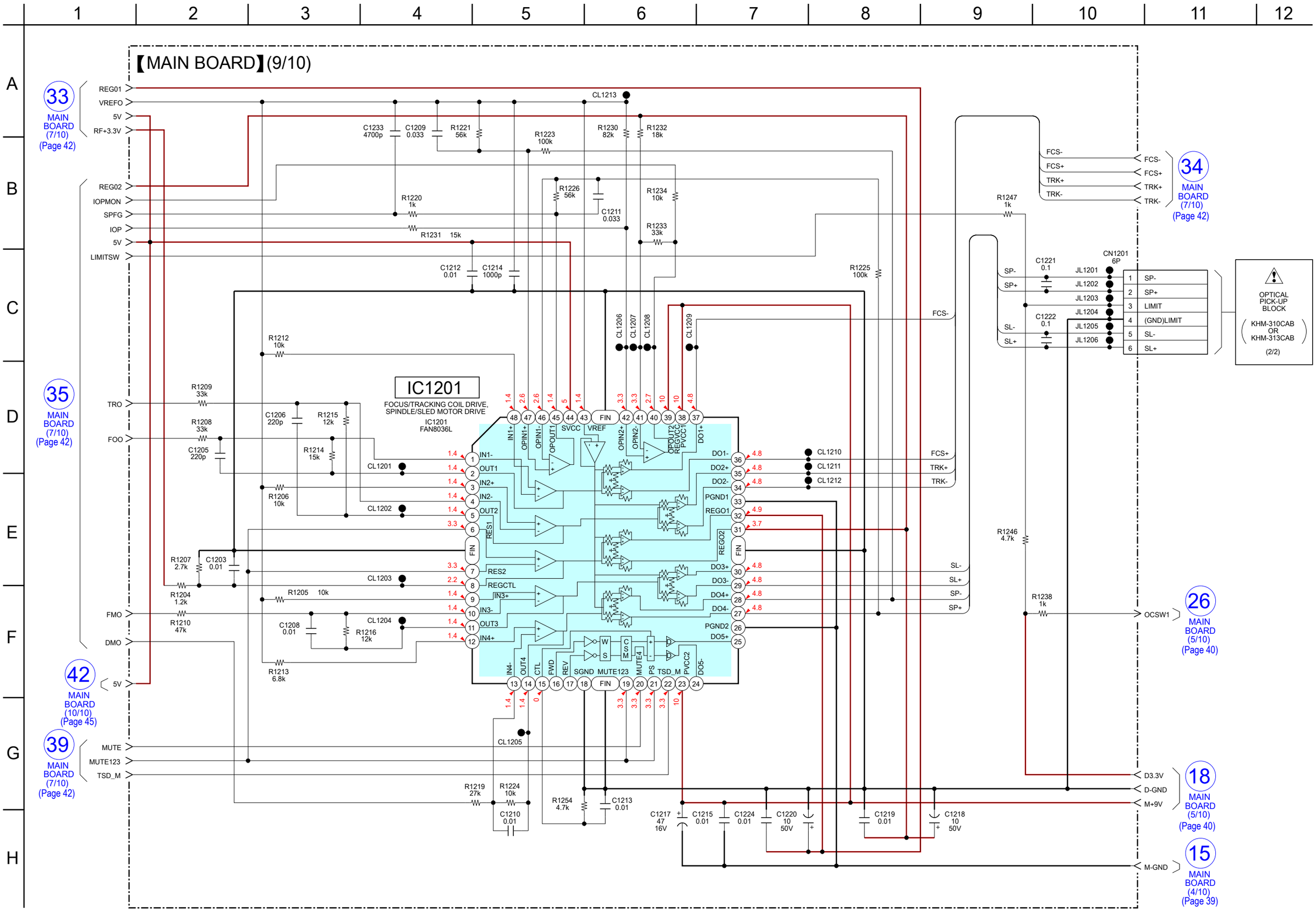


6-15. SCHEMATIC DIAGRAM - MAIN Board (8/10) - • See page 62 for IC Block Diagrams.

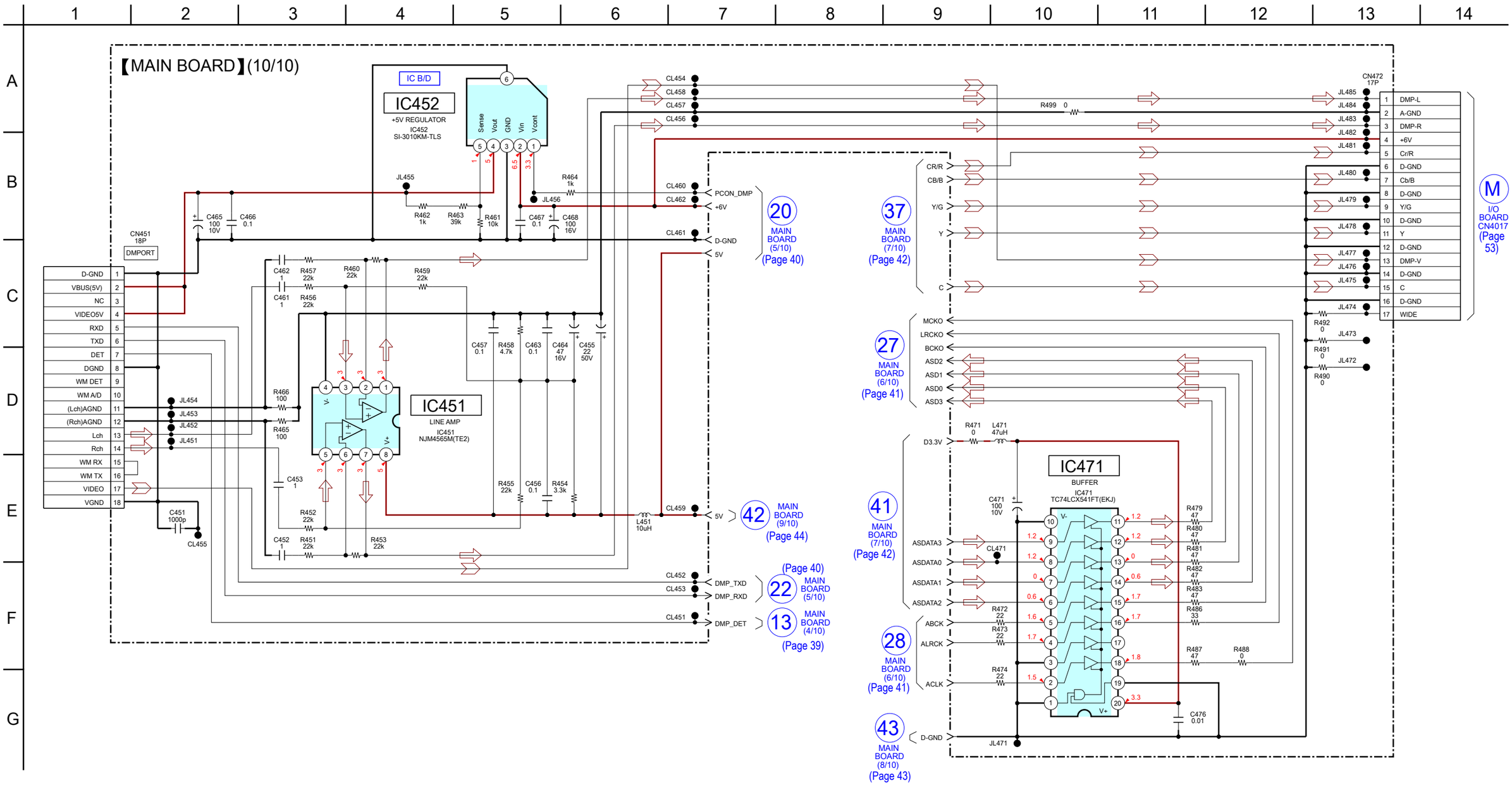


Note: IC1103 cannot exchange with single. When this part is damaged, exchange the entire mounted board.

6-16. SCHEMATIC DIAGRAM - MAIN Board (9/10) -



6-17. SCHEMATIC DIAGRAM - MAIN Board (10/10) - • See page 62 for IC Block Diagrams.

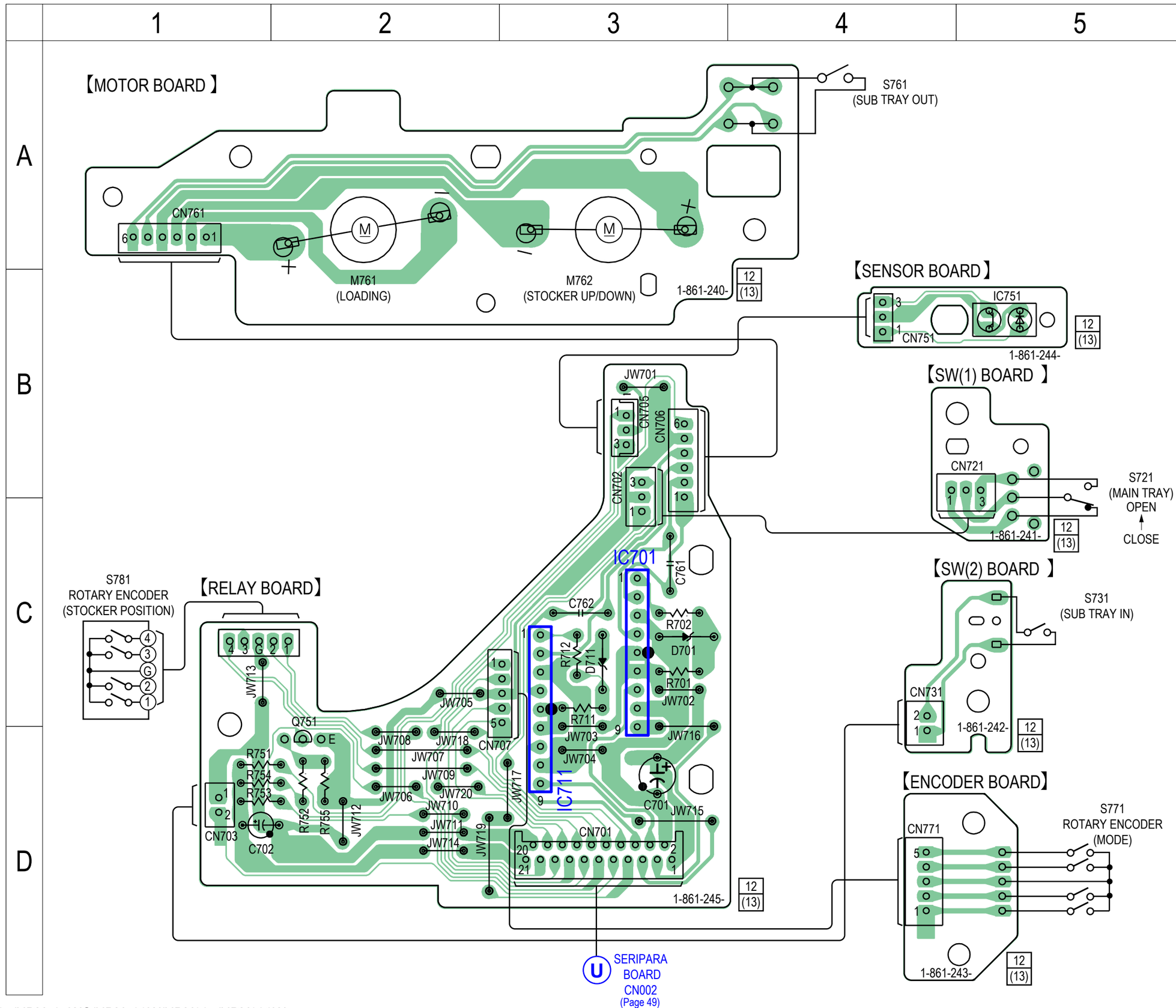


6-18. PRINTED WIRING BOARDS - RELAY Section -

• See page 33 for Circuit Boards Location. • : Uses unleaded solder.

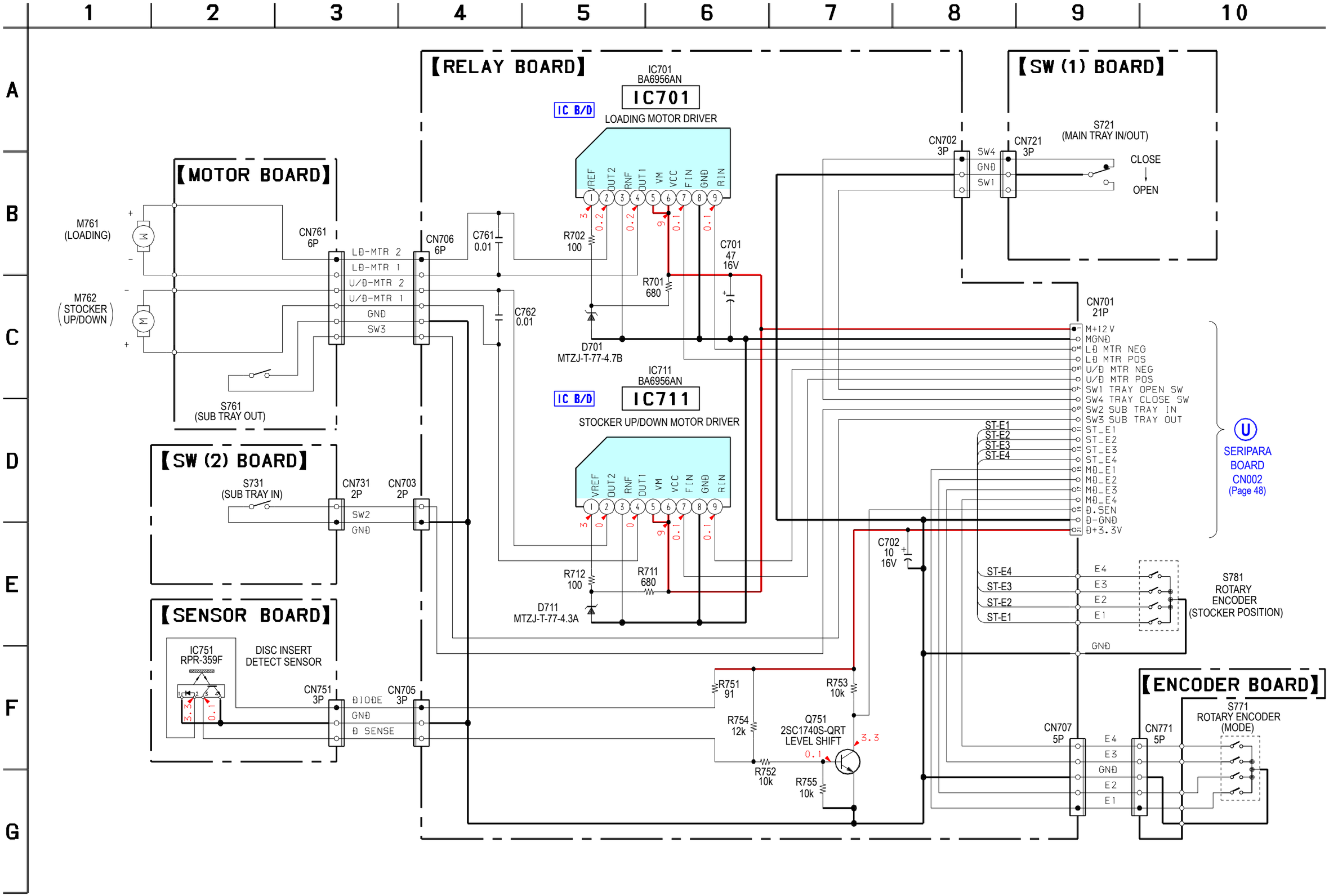
• **Semiconductor Location**

Ref. No.	Location
D701	C-3
D711	C-3
IC701	C-3
IC711	C-3
IC751	B-5
Q751	D-2

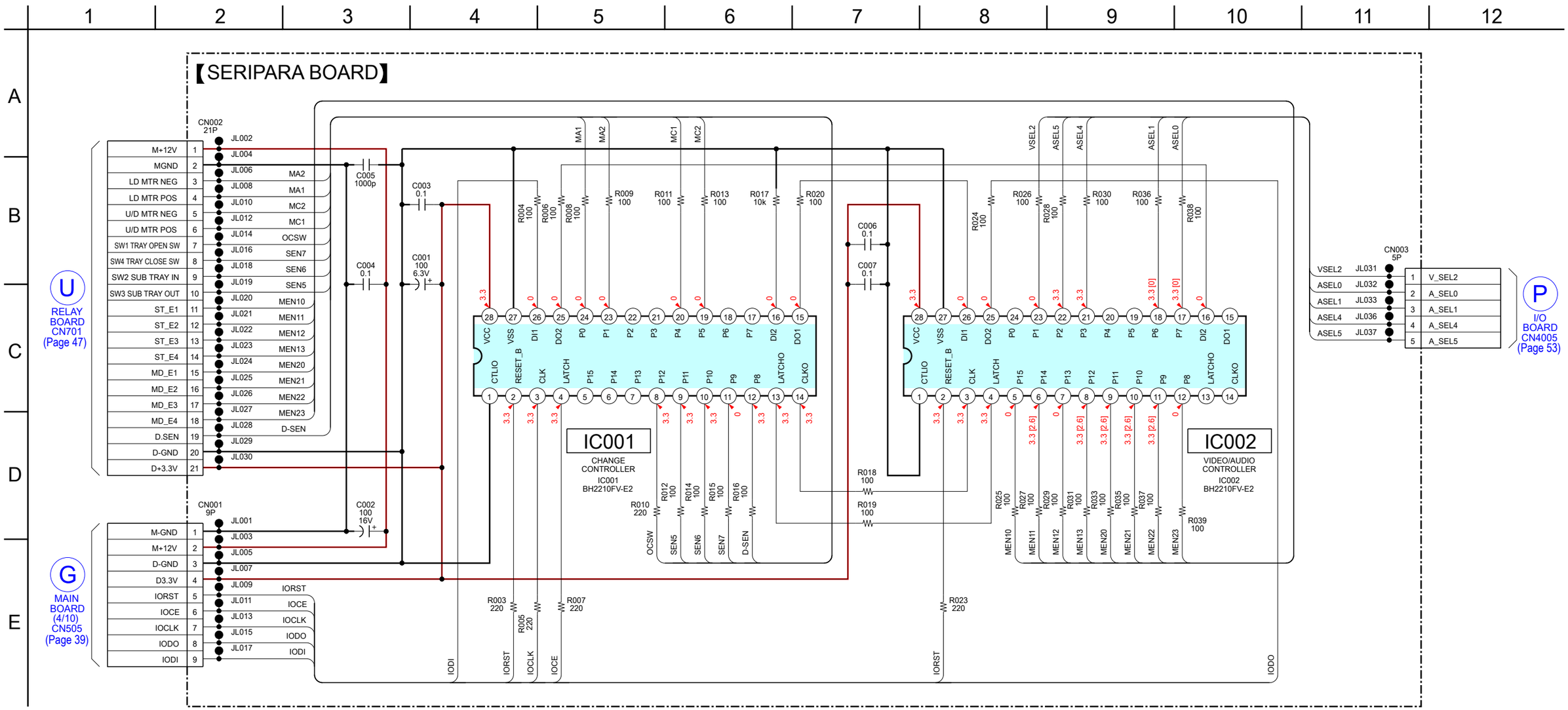


6-19. SCHEMATIC DIAGRAM - RELAY Section -

• See page 62 for IC Block Diagrams.

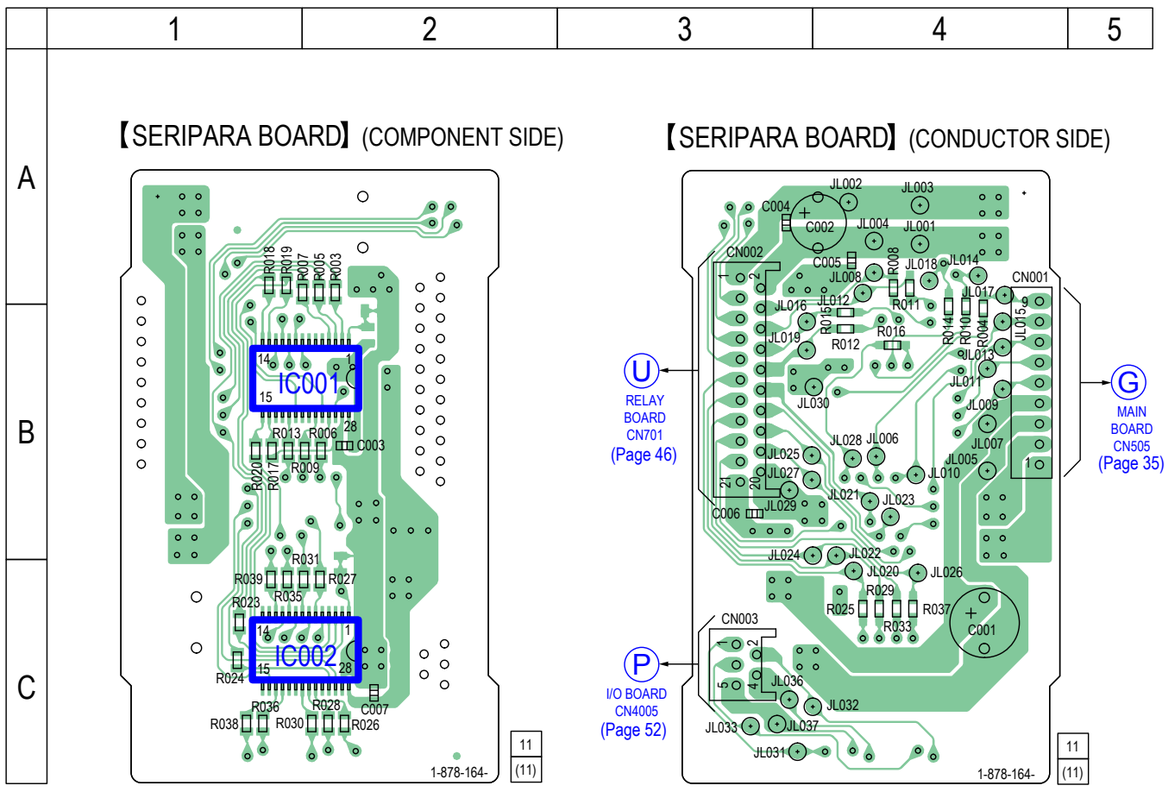


6-20. SCHEMATIC DIAGRAM - SERIPARA Board - • See page 70 for IC Pin Function Description.

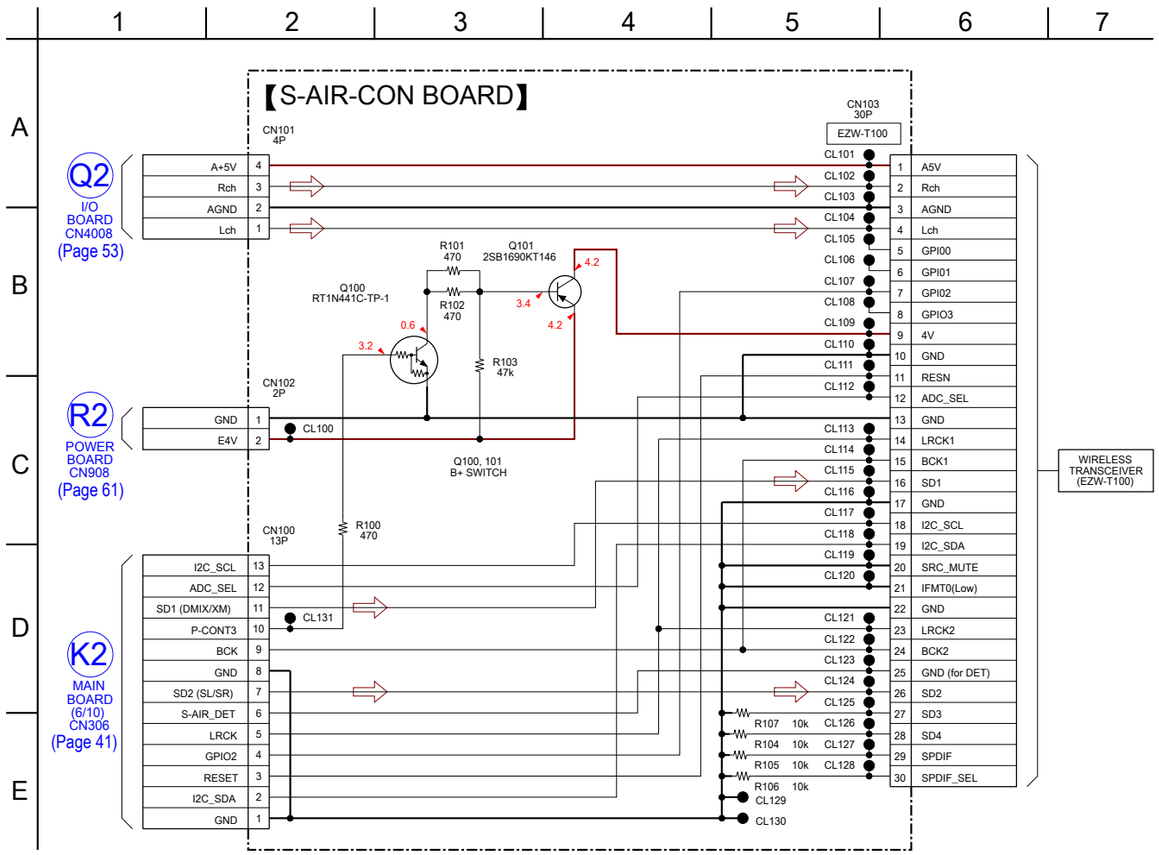


6-21. PRINTED WIRING BOARD - SERIPARA Board -

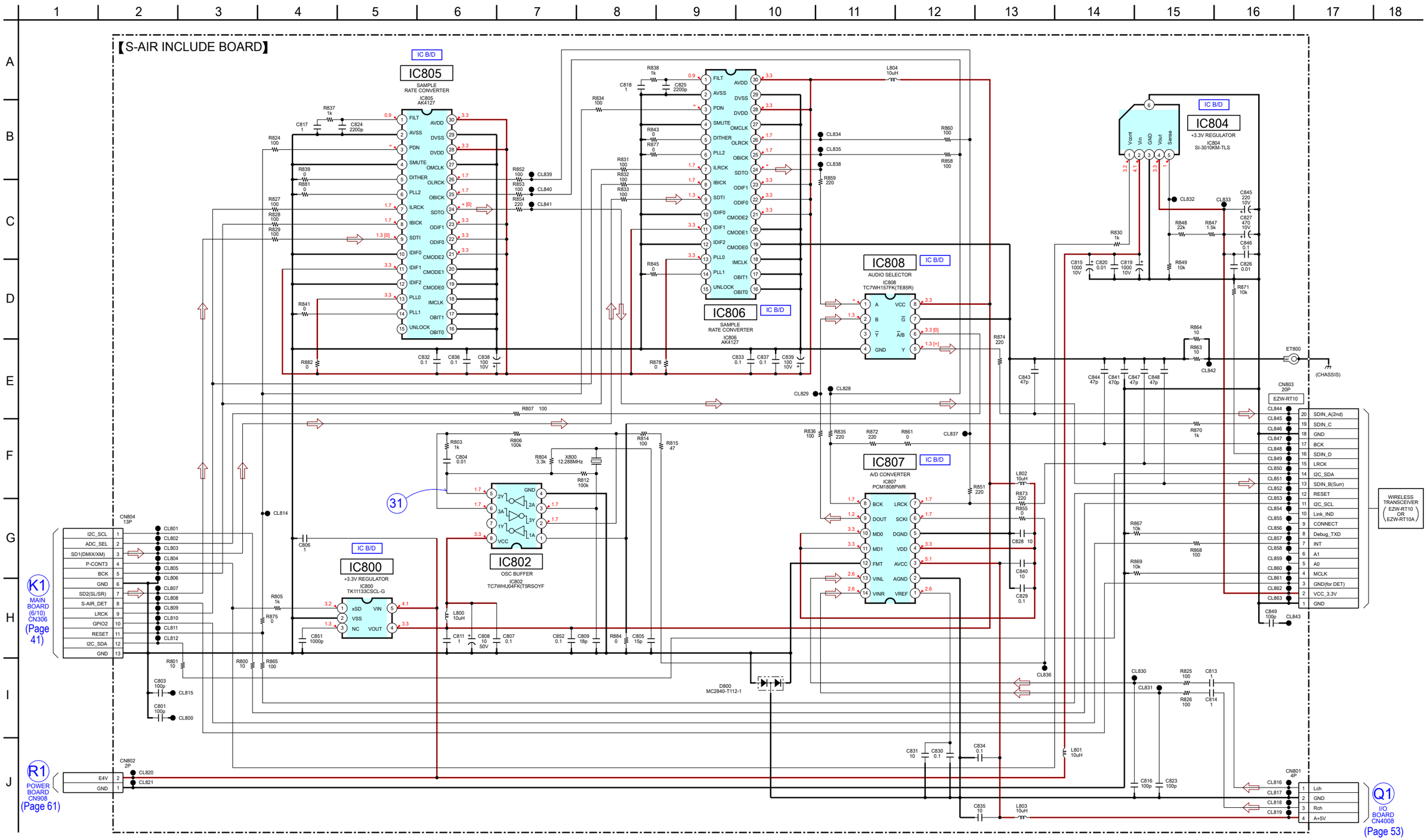
• See page 33 for Circuit Boards Location. • : Uses unleaded solder.



6-22. SCHEMATIC DIAGRAM - S-AIR-CON Board (HDX285/HDX585/HDX685) -



6-23. SCHEMATIC DIAGRAM - S-AIR INCLUDE Board (HDX287WC/HDX587WC/HDX589W/HDX686W) - • See page 59 for Waveforms. • See page 62 for IC Block Diagrams.

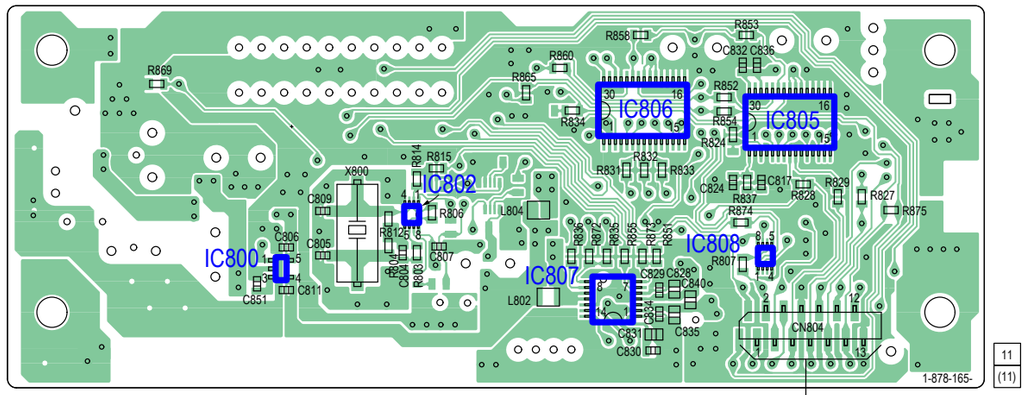


6-24. PRINTED WIRING BOARDS - S-AIR Section -

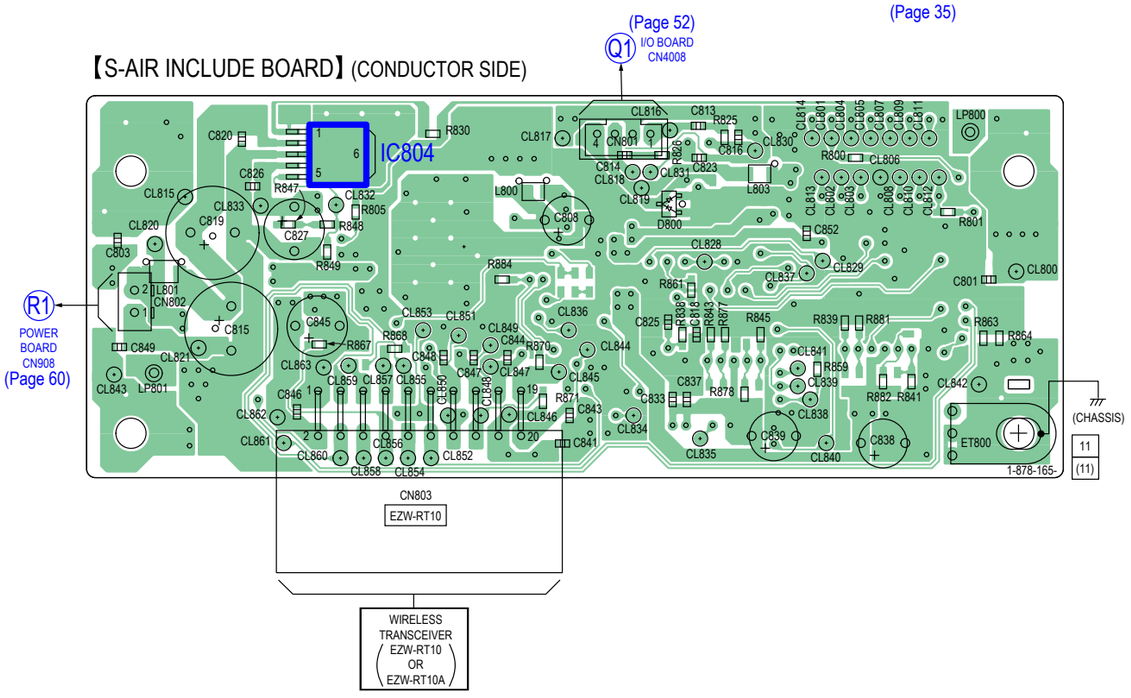
• See page 33 for Circuit Boards Location. • : Uses unleaded solder.

(HDX287WC/HDX587WC/HDX589W/HDX686W)

【S-AIR INCLUDE BOARD】(COMPONENT SIDE)

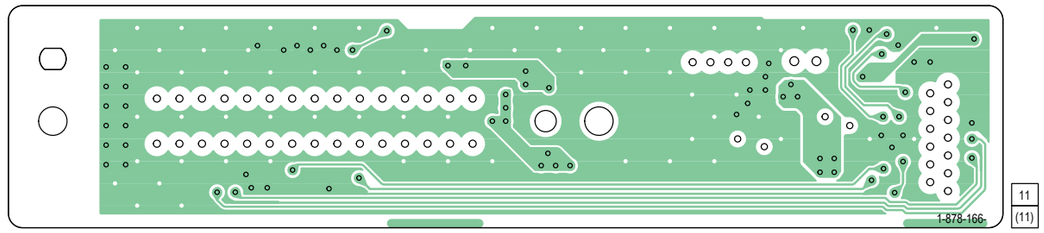


【S-AIR INCLUDE BOARD】(CONDUCTOR SIDE)

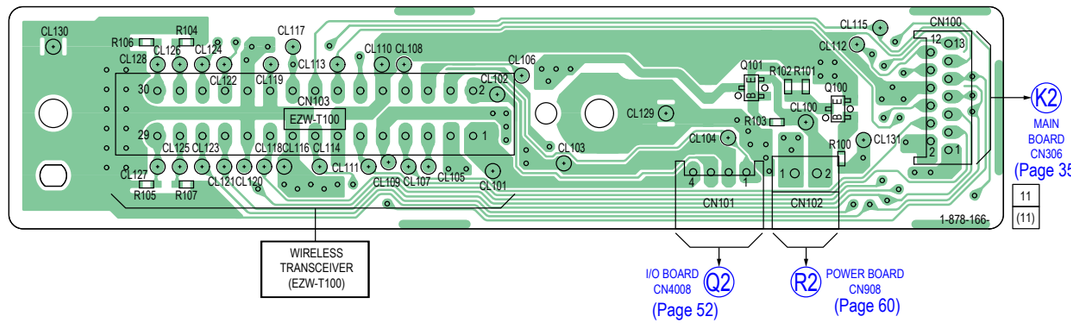


(HDX285/HDX585/HDX685)

【S-AIR-CON BOARD】(COMPONENT SIDE)



【S-AIR-CON BOARD】(CONDUCTOR SIDE)



• **Semiconductor Location**

Ref. No.	Location
D800	D-4
IC800	B-2
IC802	B-3
IC804	D-2
IC805	B-5
IC806	B-4
IC807	B-4
IC808	B-5
Q100	C-10
Q101	C-9

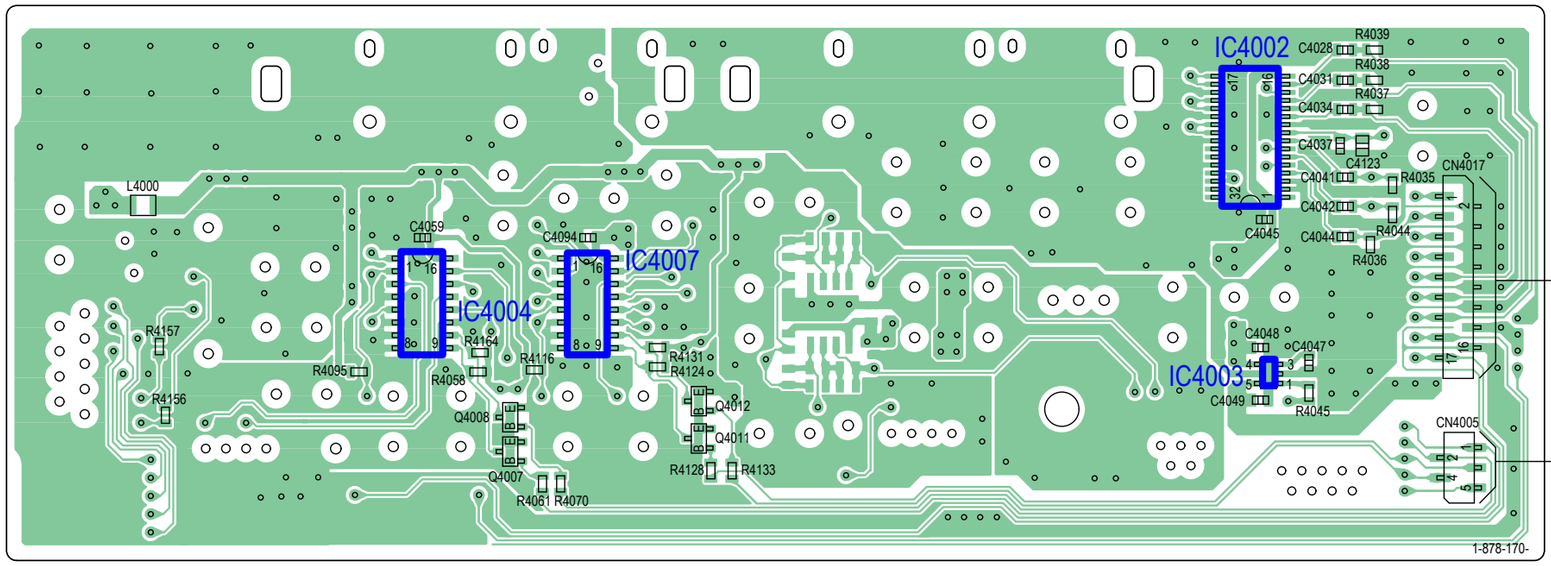
6-25. PRINTED WIRING BOARD - I/O Board -

• See page 33 for Circuit Boards Location. • : Uses unleaded solder.

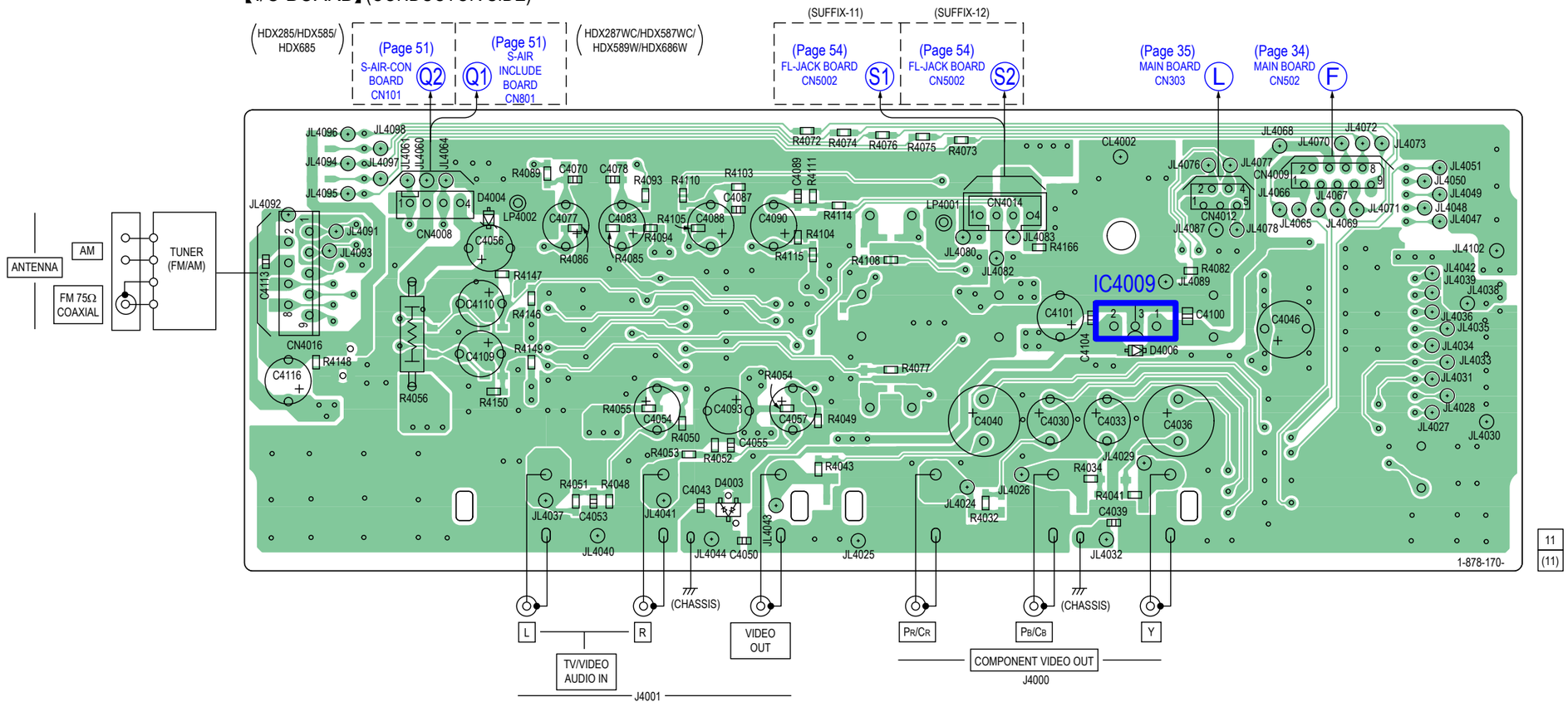
• **Semiconductor Location**

Ref. No.	Location
D4003	F-4
D4004	D-3
D4006	E-6
IC4002	A-7
IC4003	B-7
IC4004	B-3
IC4007	B-4
IC4009	E-6
Q4007	C-4
Q4008	C-4
Q4011	C-5
Q4012	B-5

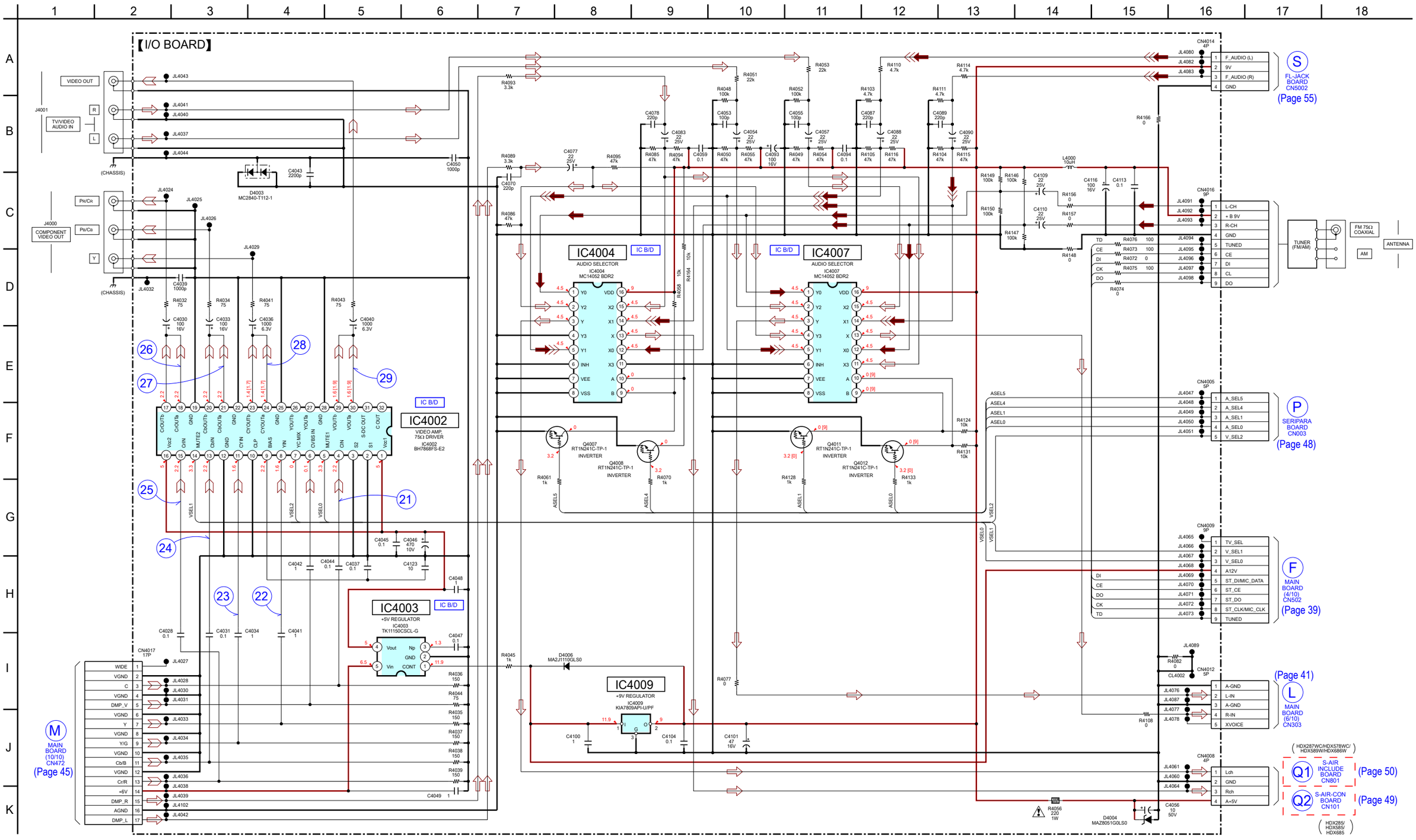
【I/O BOARD】(COMPONENT SIDE)



【I/O BOARD】(CONDUCTOR SIDE)

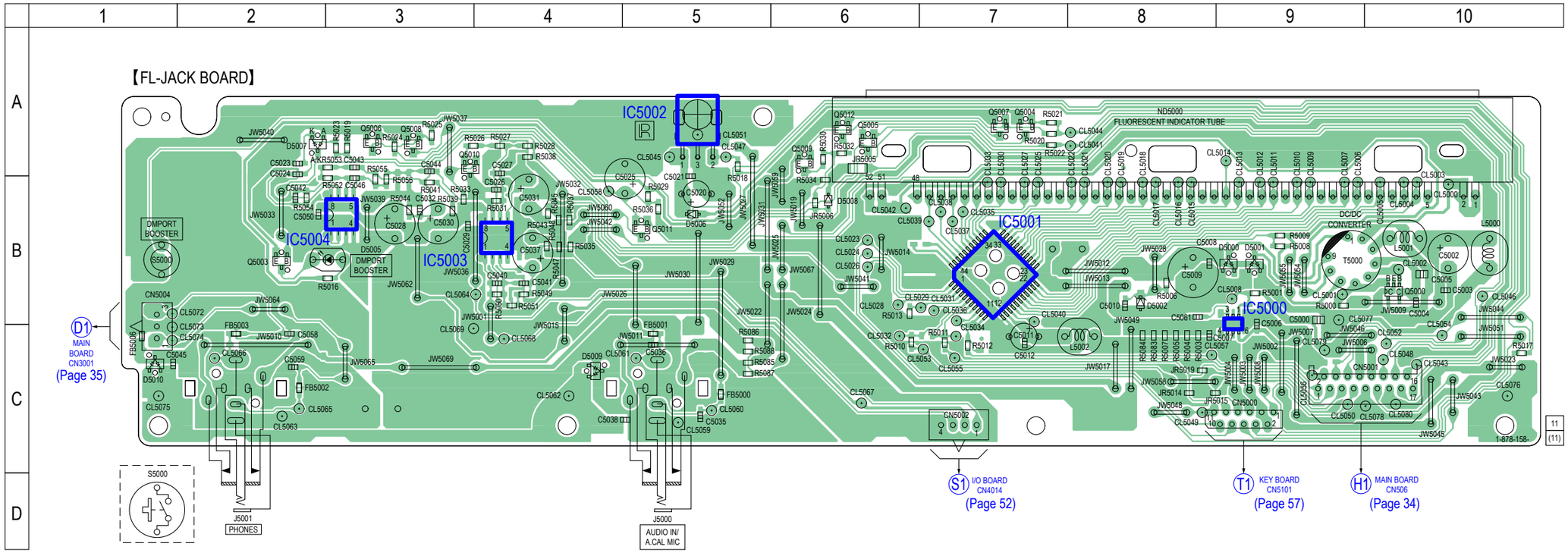


6-26. SCHEMATIC DIAGRAM - I/O Board - • See page 59 for Waveforms. • See page 62 for IC Block Diagrams.



6-27. PRINTED WIRING BOARD - FL-JACK Board (Suffix-11) -

• See page 33 for Circuit Boards Location. • : Uses unleaded solder.

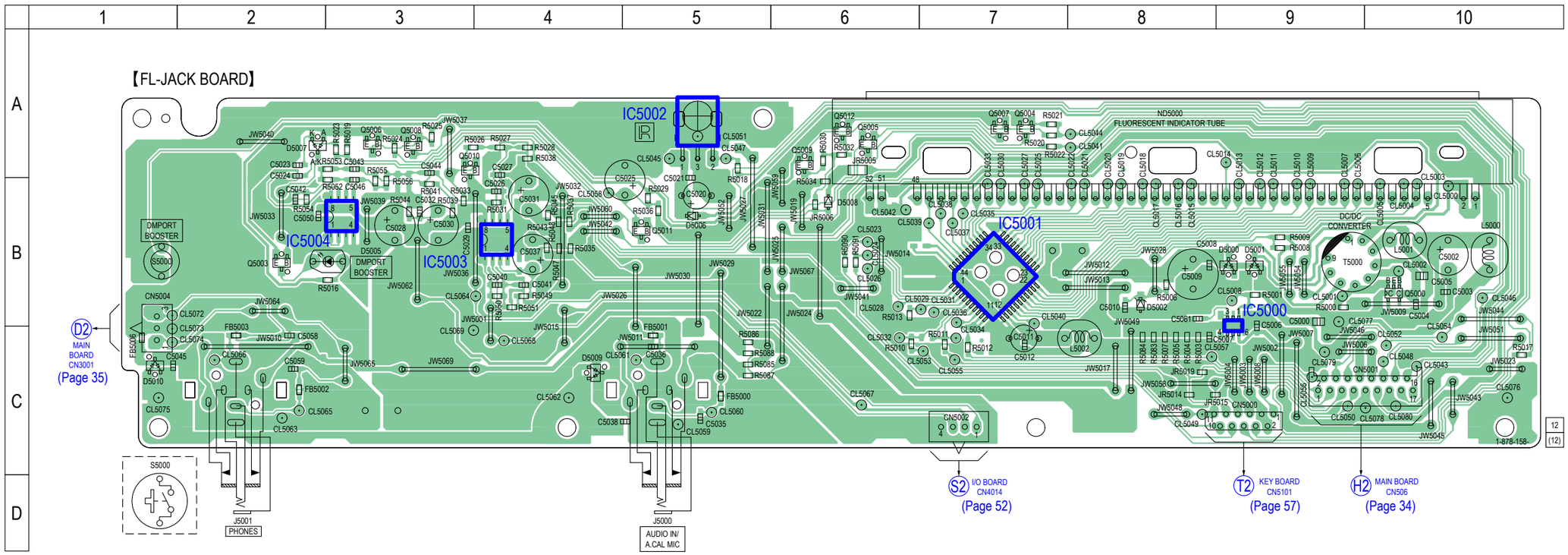


- **Semiconductor Location**

Ref. No.	Location
D5000	B-9
D5001	B-9
D5002	B-8
D5005	B-3
D5006	B-5
D5007	A-2
D5008	B-6
D5009	C-4
D5010	C-1
IC5000	B-9
IC5001	B-7
IC5002	A-5
IC5003	B-4
IC5004	B-3
Q5000	B-10
Q5003	B-2
Q5004	A-7
Q5005	A-6
Q5006	A-3
Q5007	A-7
Q5008	A-3
Q5009	A-6
Q5010	A-3
Q5011	B-5
Q5012	A-6

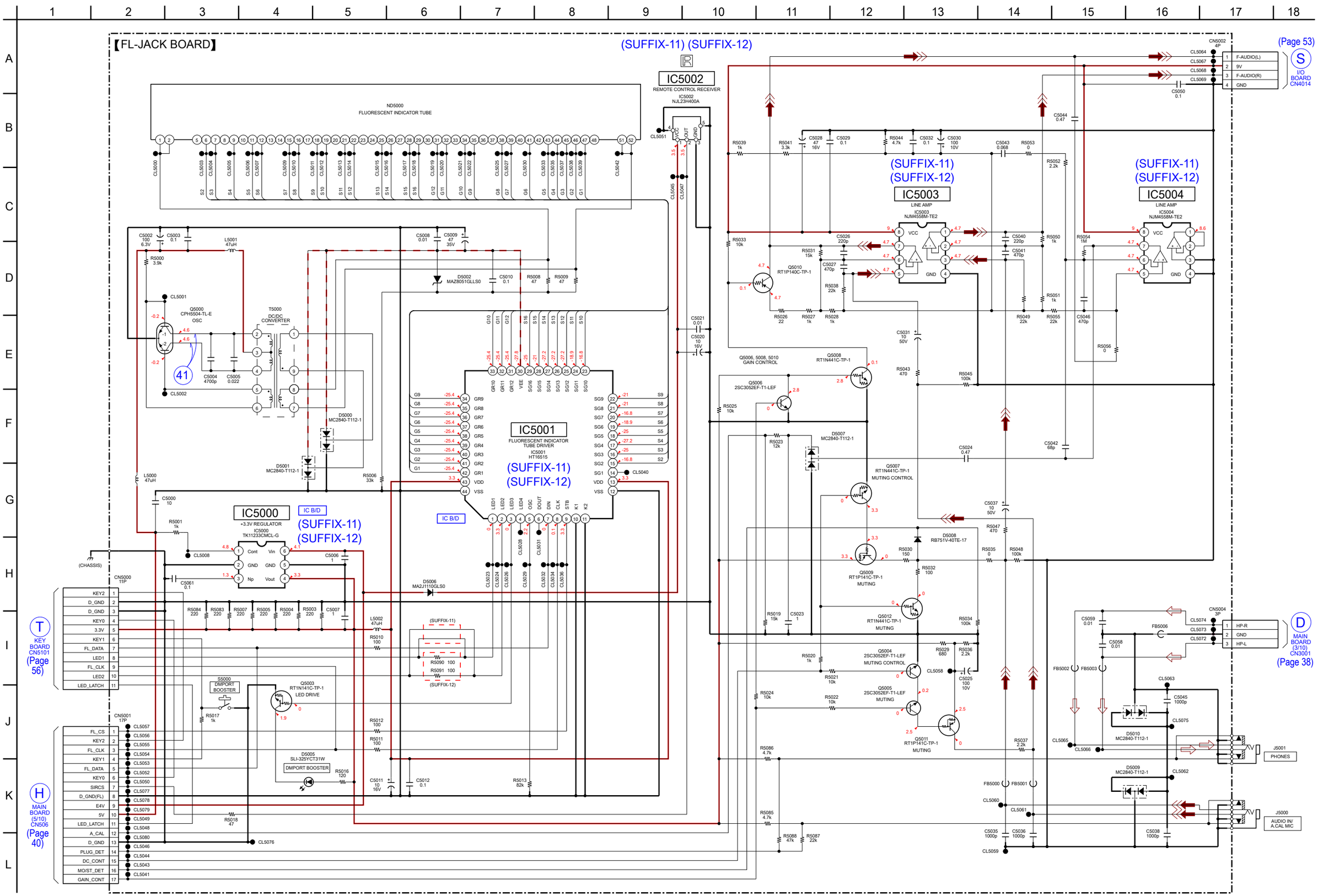
6-28. PRINTED WIRING BOARD - FL-JACK Board (Suffix-12) -

• See page 33 for Circuit Boards Location. • : Uses unleaded solder.



Note: Refer to the Servicing Notes “FL-JACK AND P-SW BOARDS DISCRIMINATION” (page 5) for how to distinguish Suffix-11 and Suffix-12.

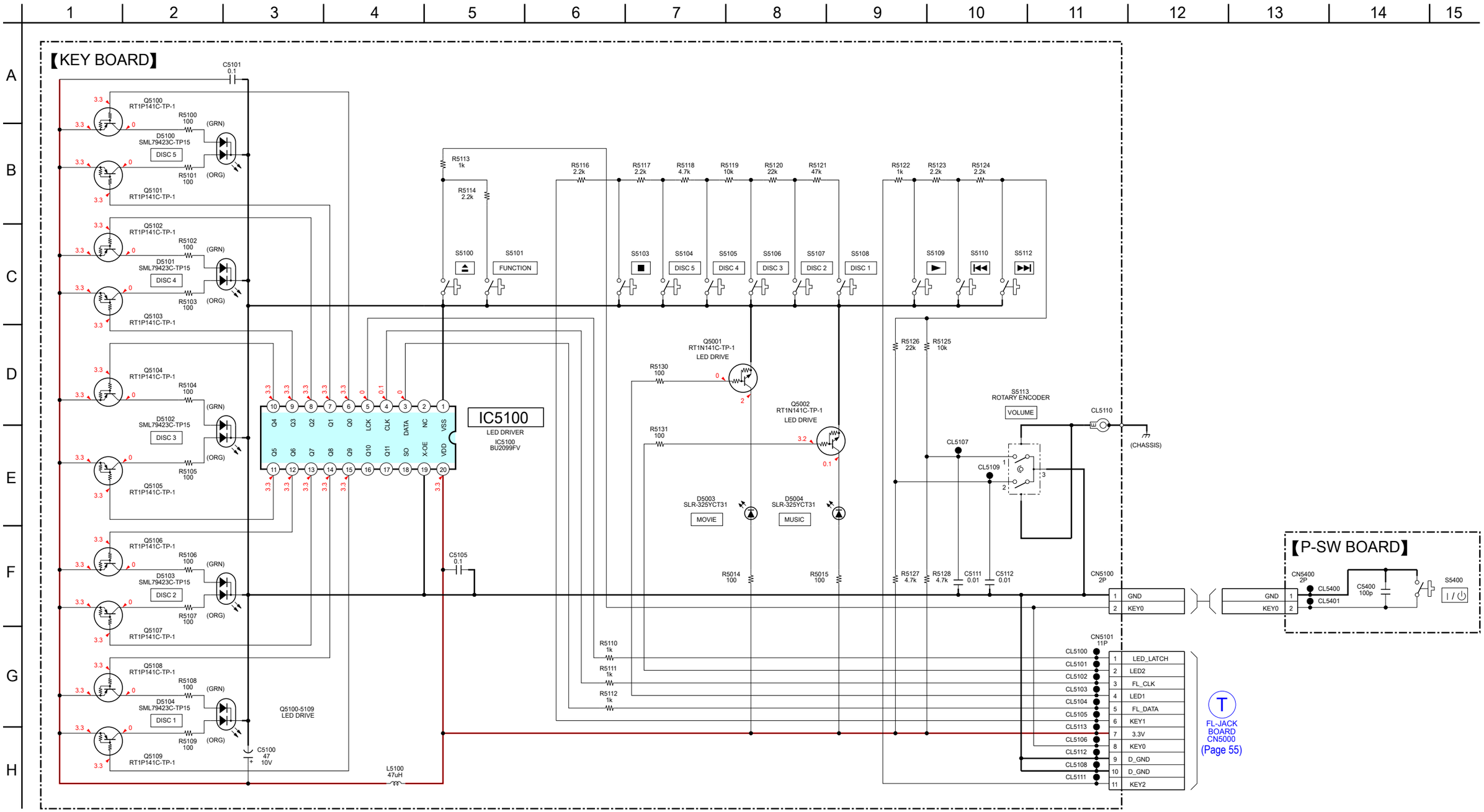
6-29. SCHEMATIC DIAGRAM - FL-JACK Board - • See page 62 for IC Block Diagrams.



Note: Refer to the Servicing Notes “FL-JACK AND P-SW BOARDS DISCRIMINATION” (page 5) for how to distinguish Suffix-11 and Suffix-12.

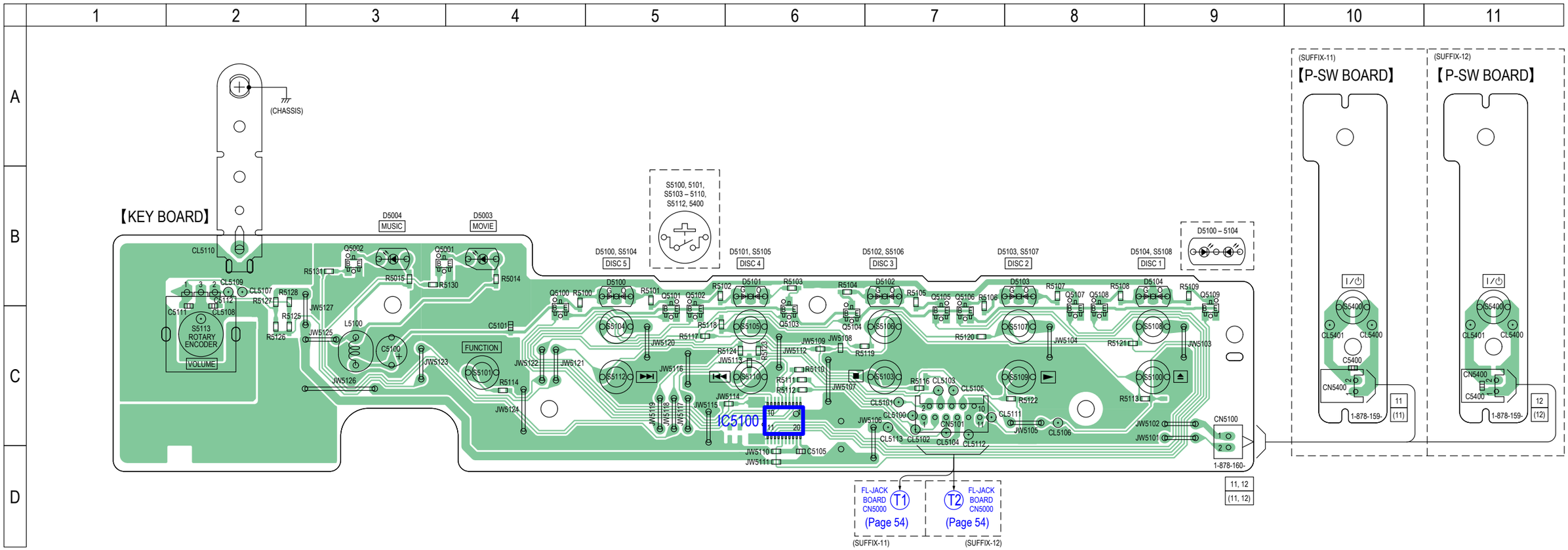
6-30. SCHEMATIC DIAGRAM - KEY/P-SW Boards -

• See page 70 for IC Pin Function Description.



6-31. PRINTED WIRING BOARDS - KEY/P-SW Boards -

• See page 33 for Circuit Boards Location. • : Uses unleaded solder.



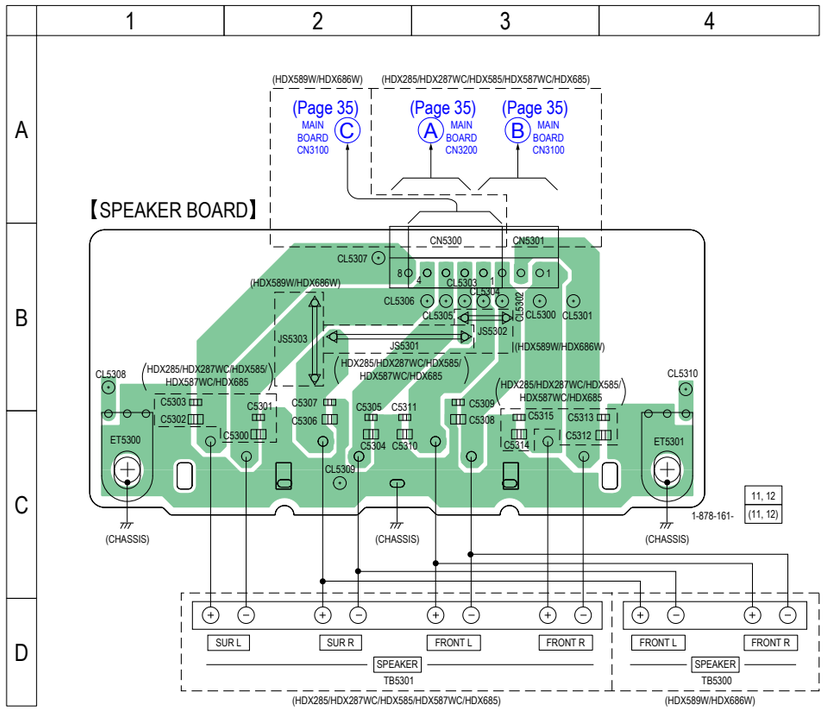
Note: Refer to the Servicing Notes “FL-JACK AND P-SW BOARDS DISCRIMINATION” (page 5) for how to distinguish Suffix-11 and Suffix-12.

- **Semiconductor Location**

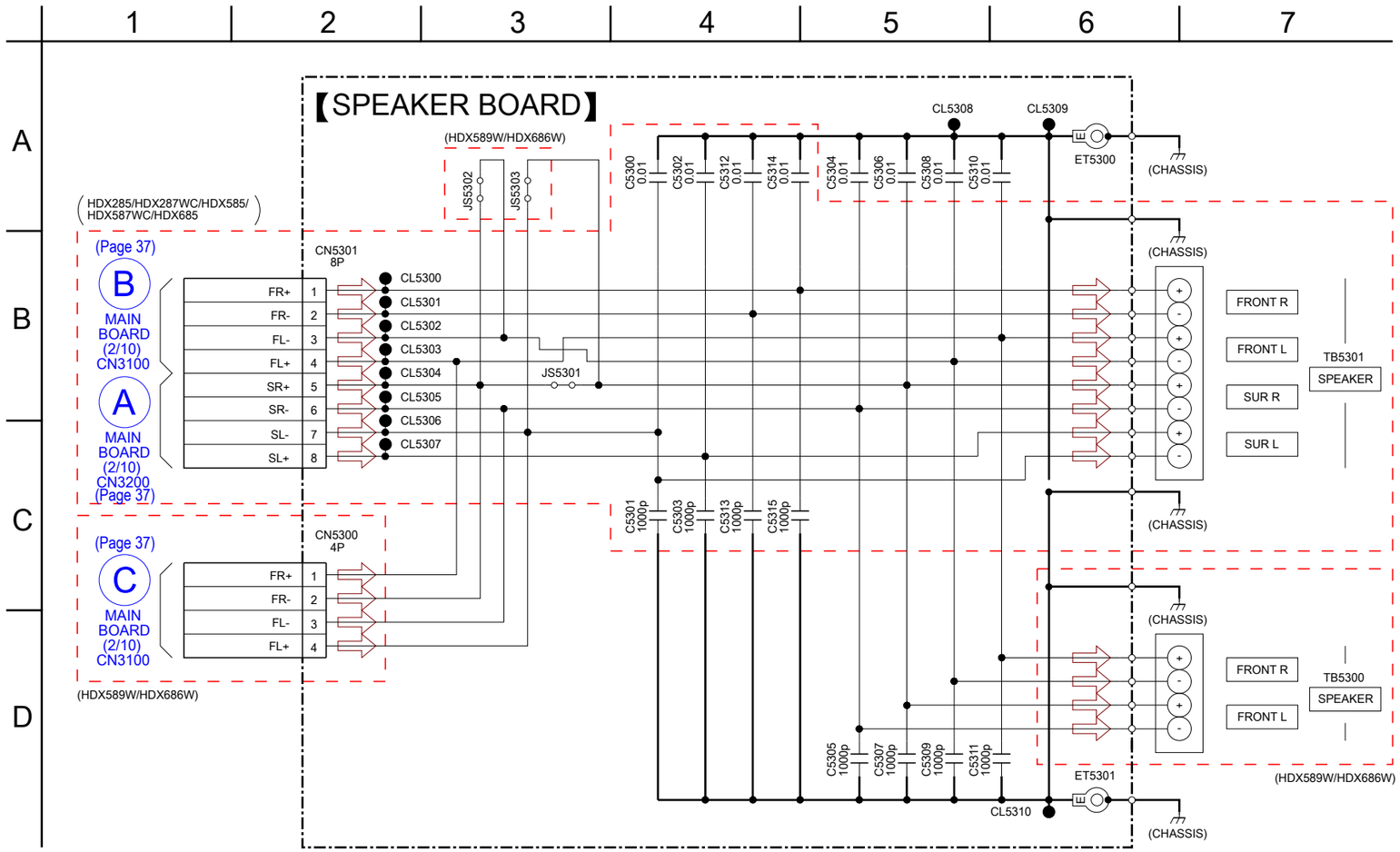
Ref. No.	Location
D5003	B-4
D5004	B-3
D5100	B-5
D5101	B-6
D5102	B-7
D5103	B-8
D5104	B-9
IC5100	C-6
Q5001	B-3
Q5002	B-3
Q5100	C-4
Q5101	C-5
Q5102	C-5
Q5103	C-6
Q5104	C-6
Q5105	C-7
Q5106	C-7
Q5107	C-8
Q5108	C-8
Q5109	C-9

6-32. PRINTED WIRING BOARD - SPEAKER Board -

• See page 33 for Circuit Boards Location. • : Uses unleaded solder.



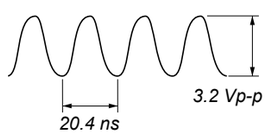
6-33. SCHEMATIC DIAGRAM - SPEAKER Board -



• **Waveforms**

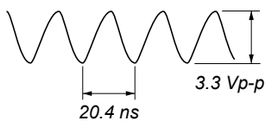
– MAIN Board –

① IC3051 ⑤



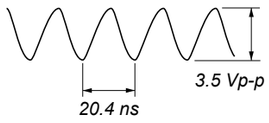
2 V/DIV, 10 ns/DIV

② IC3010 ㊽ (XFSOIN)



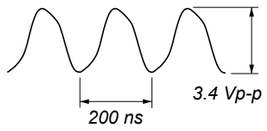
2 V/DIV, 10 ns/DIV

③ IC3010 ⑭ (XFSOOUT)



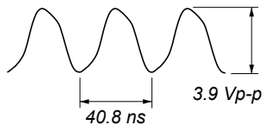
2 V/DIV, 10 ns/DIV

④ IC503 ⑬ (Xout)



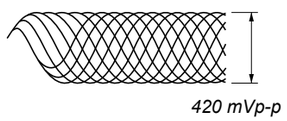
2 V/DIV, 100 ns/DIV

⑤ IC304 ㉑ (XOUT(O))



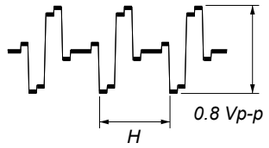
2 V/DIV, 20 ns/DIV

⑥ IC1101 ⑩ (DVDRFIP) (DVD play mode)



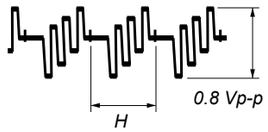
200 mV/DIV, 100 ns/DIV

⑦ IC1101 ㉜ (R/Cr/Pr) (Color bar)



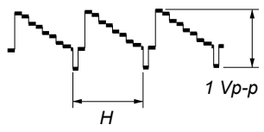
500 mV/DIV, 50 µs/DIV

⑧ IC1101 ㉝ (B/Cb/Pb) (Color bar)



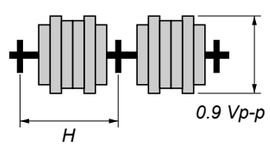
500 mV/DIV, 50 µs/DIV

⑨ IC1101 ㉟ (Y/G) (Color bar)



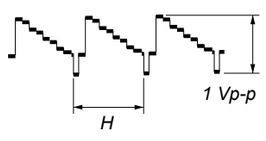
500 mV/DIV, 50 µs/DIV

⑩ IC1101 ㊴ (C) (Color bar)



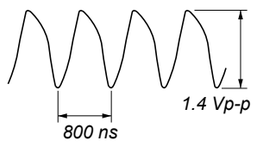
500 mV/DIV, 20 µs/DIV

⑪ IC1101 ㉛ (Y) (Color bar)



500 mV/DIV, 50 µs/DIV

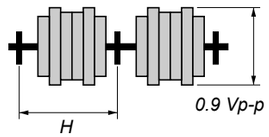
⑫ IC1101 ㊳ (XTALO)



1 V/DIV, 1 ms/DIV

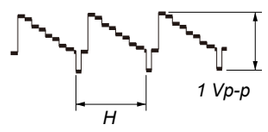
– I/O Board –

㉑ IC4002 ④ (CIN) (Color bar)



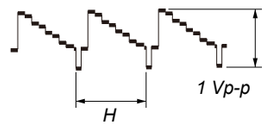
500 mV/DIV, 20 µs/DIV

㉒ IC4002 ⑧ (YIN) (Color bar)



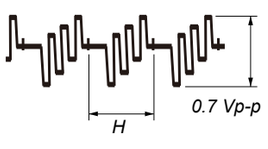
500 mV/DIV, 50 µs/DIV

㉓ IC4002 ⑪ (CYIN) (Color bar)



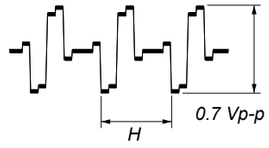
500 mV/DIV, 50 µs/DIV

㉔ IC4002 ⑬ (CbIN) (Color bar)



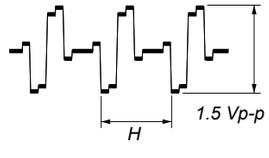
200 mV/DIV, 20 µs/DIV

㉕ IC4002 ⑮ (CrIN) (Color bar)



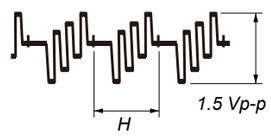
200 mV/DIV, 20 µs/DIV

㉖ IC4002 ⑱ (CrOUTa) (Color bar)



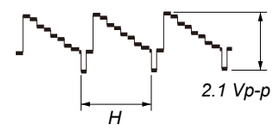
500 mV/DIV, 20 µs/DIV

㉗ IC4002 ㉑ (CbOUTa) (Color bar)



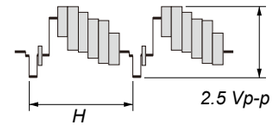
500 mV/DIV, 20 µs/DIV

㉘ IC4002 ㉔ (CYOUTa) (Color bar)



1 V/DIV, 50 µs/DIV

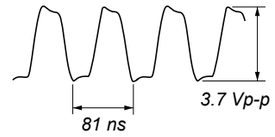
㉙ IC4002 ㉚ (VOUTa) (Color bar)



1 V/DIV, 20 µs/DIV

– S-AIR INCLUDE Board –

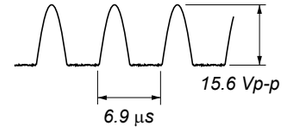
㉛ IC802 ⑤



2 V/DIV, 50 ns/DIV

– FL-JACK Board –

㊶ Q5000 (Collector)



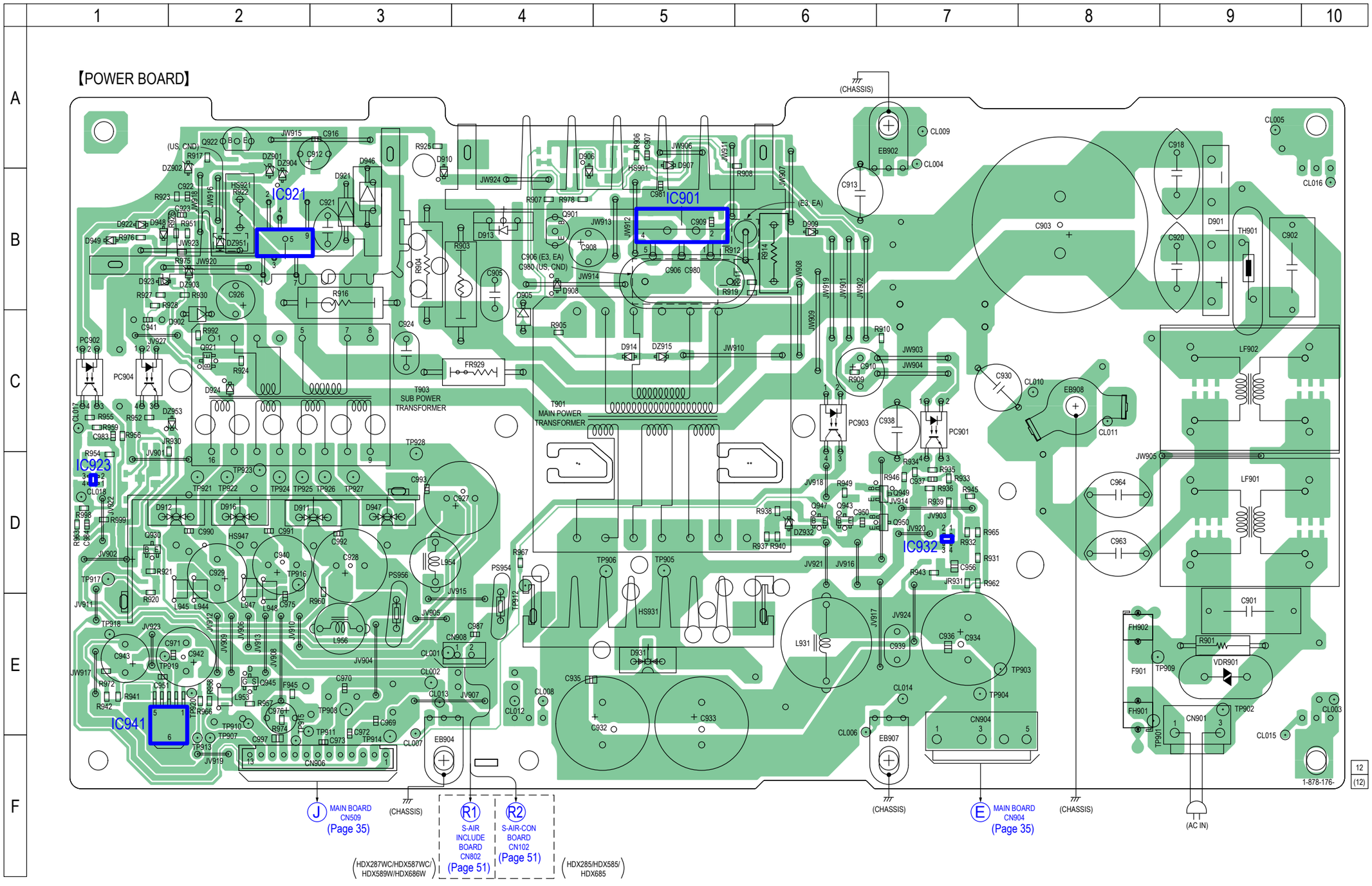
10 V/DIV, 5 µs/DIV

6-34. PRINTED WIRING BOARD - POWER Board -

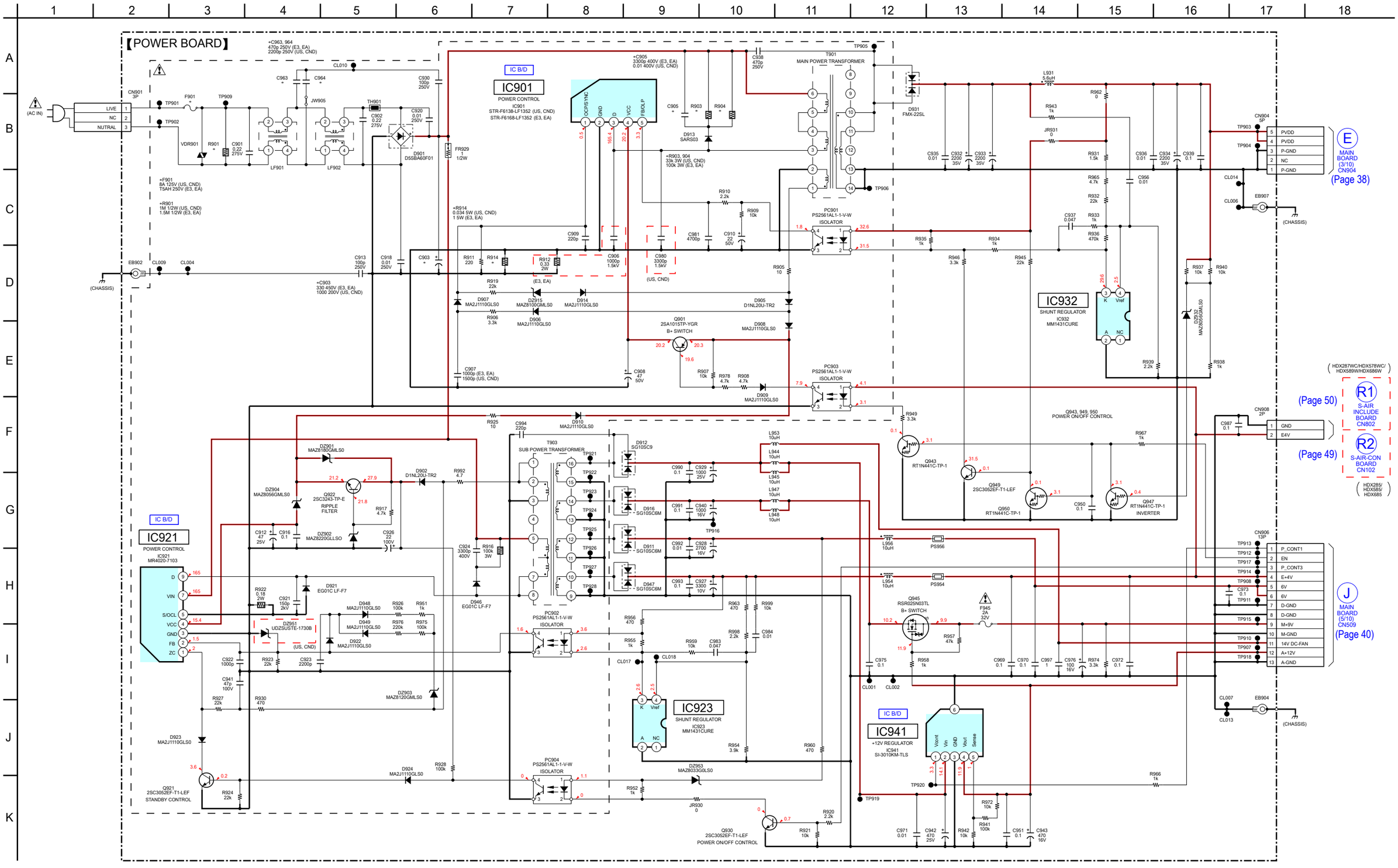
• See page 33 for Circuit Boards Location. • : Uses unleaded solder.

• **Semiconductor Location**

Ref. No.	Location
D901	B-9
D902	C-2
D905	C-4
D906	B-4
D907	A-5
D908	B-4
D909	B-6
D910	B-3
D911	D-3
D912	D-2
D913	B-4
D914	C-5
D916	D-2
D921	B-3
D922	B-1
D923	B-1
D924	C-2
D931	E-5
D946	B-3
D947	D-3
D948	B-1
D949	B-1
DZ901	B-2
DZ902	B-2
DZ903	B-2
DZ904	B-2
DZ915	C-5
DZ932	D-6
DZ951	B-2
DZ953	C-2
IC901	B-5
IC921	B-2
IC923	D-1
IC932	D-7
IC941	E-1
PC901	C-7
PC902	C-1
PC903	C-6
PC904	C-1
Q901	B-4
Q921	C-2
Q922	A-2
Q930	D-1
Q943	D-6
Q945	E-2
Q947	D-6
Q949	D-7
Q950	D-7



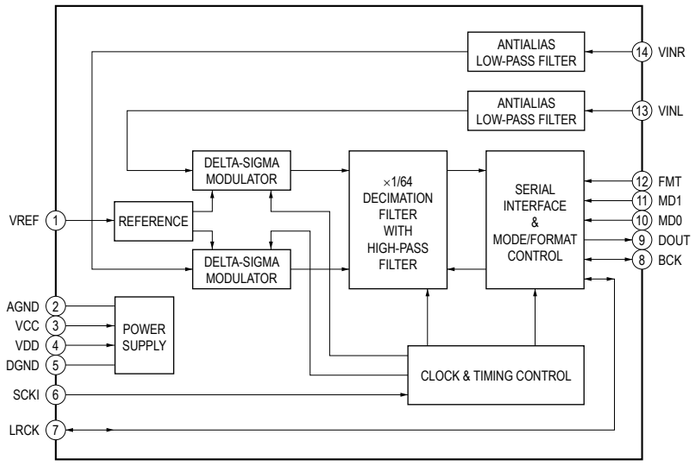
6-35. SCHEMATIC DIAGRAM - POWER Board - • See page 62 for IC Block Diagrams.



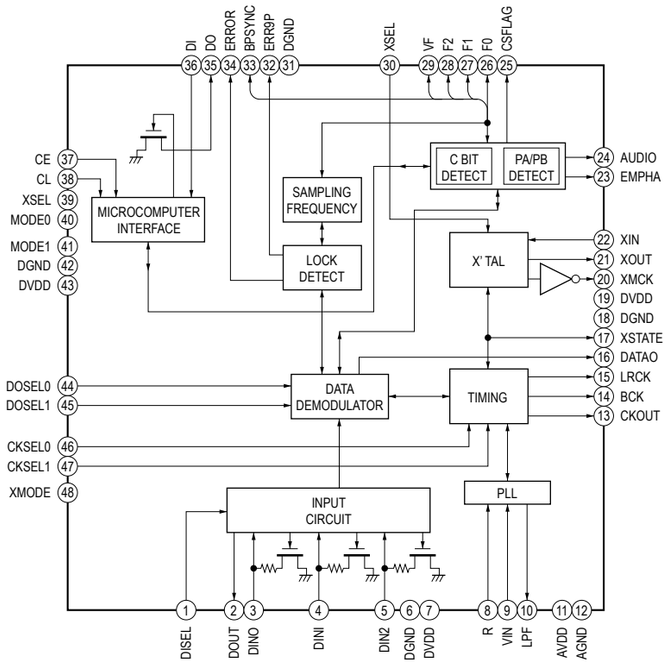
• **IC Block Diagrams**

– MAIN Board –

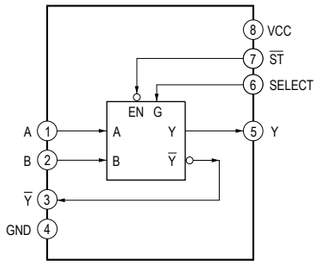
IC303 PCM1808PWR



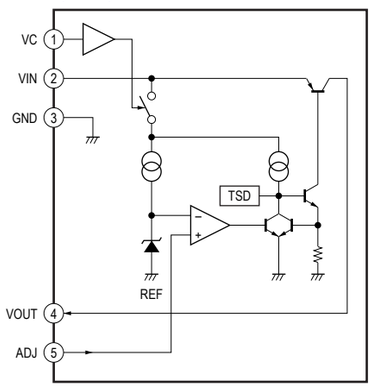
IC304 LC89056W-E



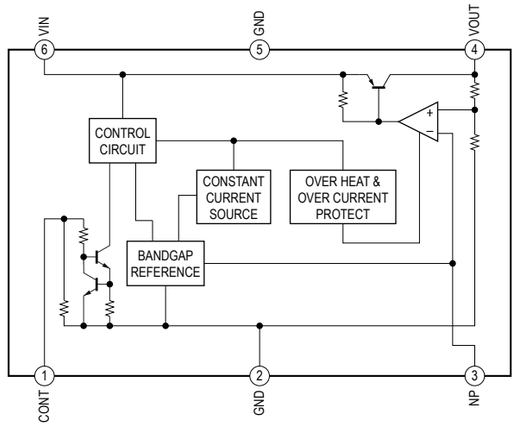
IC307 TC7WH157FK (TE85R)



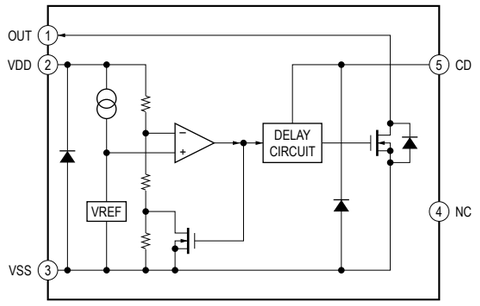
IC452, 507, 510 SI-3010KM-TLS



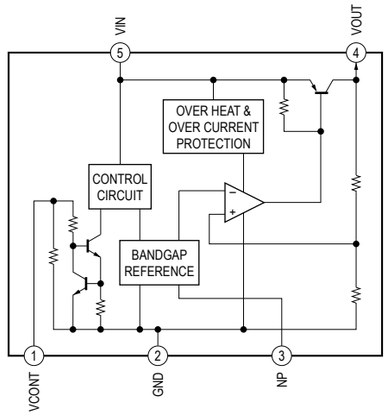
IC504 TK11250CMCL-G



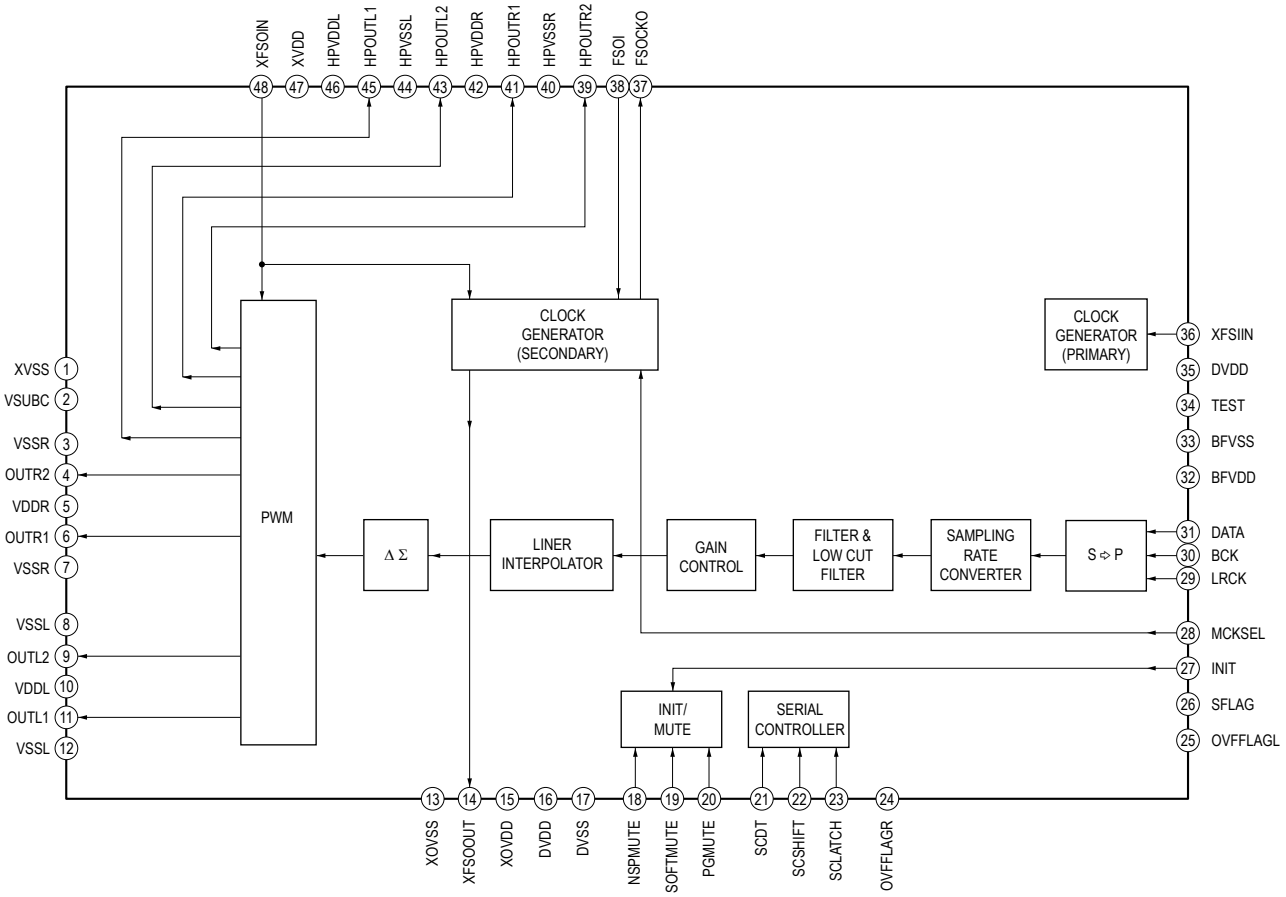
IC506 S-80935CNMC-G85T2G



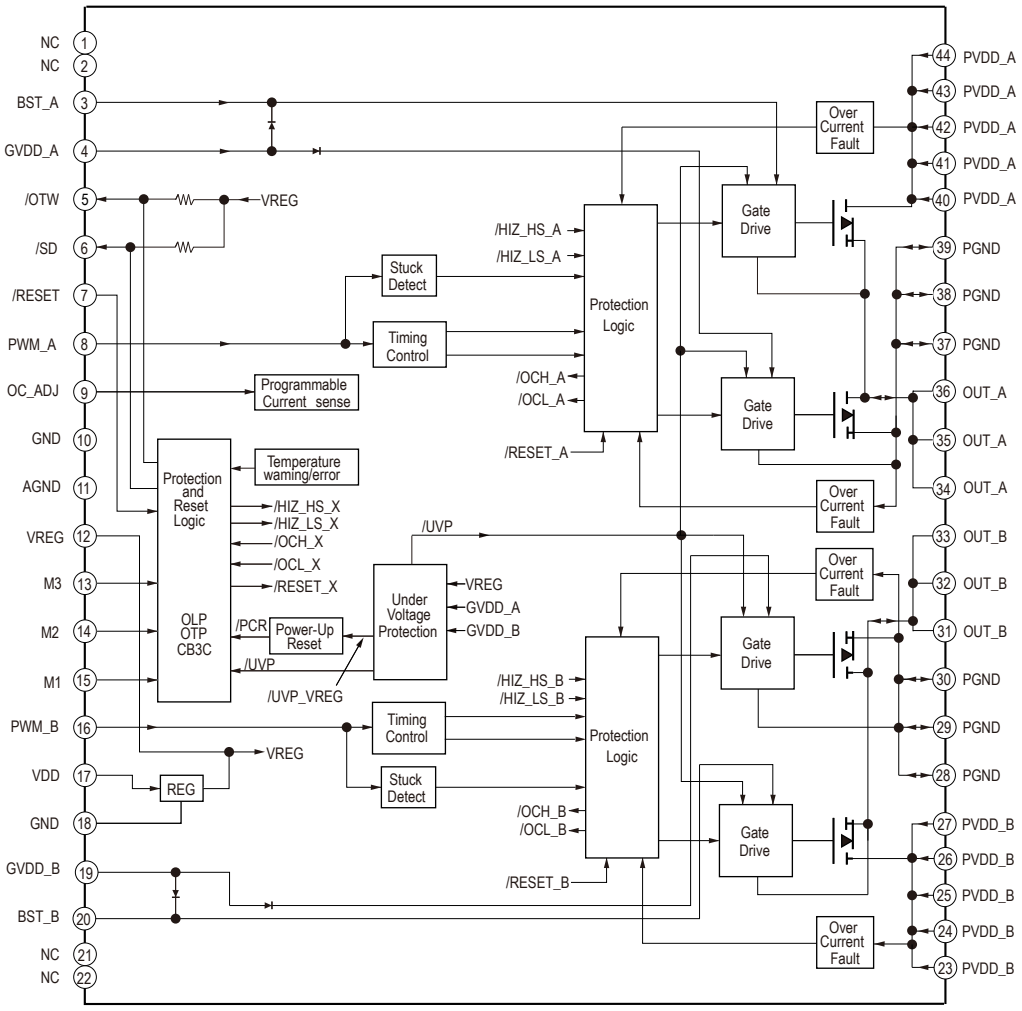
IC1105, 1107, 1708 TK11133CSCL-G
IC1707 TK11150CSCL-G
IC3050 TK11118CSCL-G



IC3010, 3020, 3030 CXD9788AR

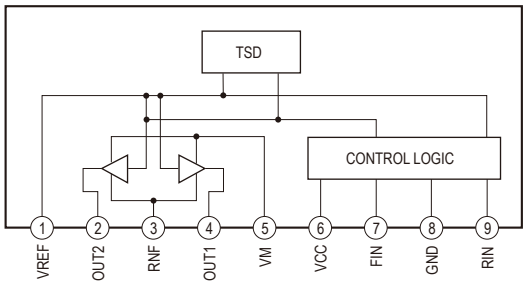


IC3100, 3150, 3200, 3250, 3300, 3400, 3500 CXD9936TN



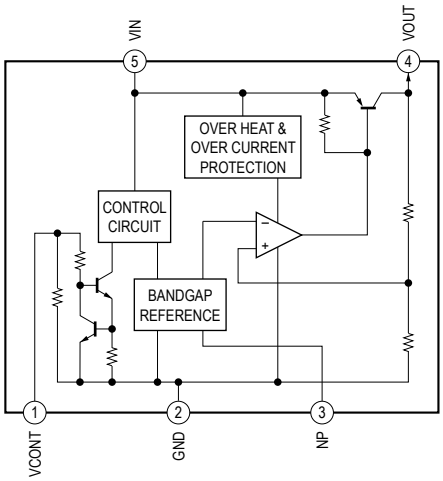
– RELAY Board –

IC701, 711 BA6956AN

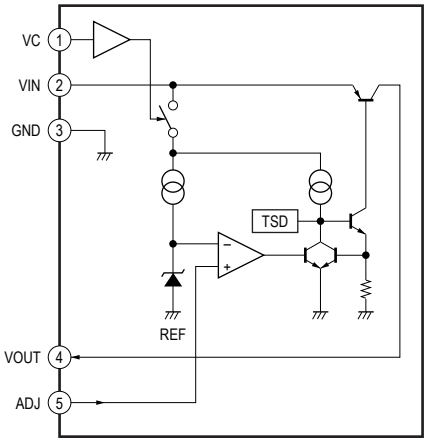


– S-AIR INCLUDE Board –

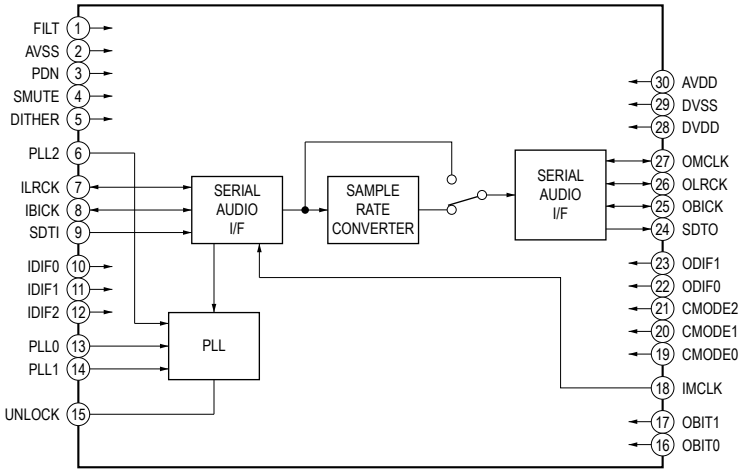
IC800 TK11133CSCL-G



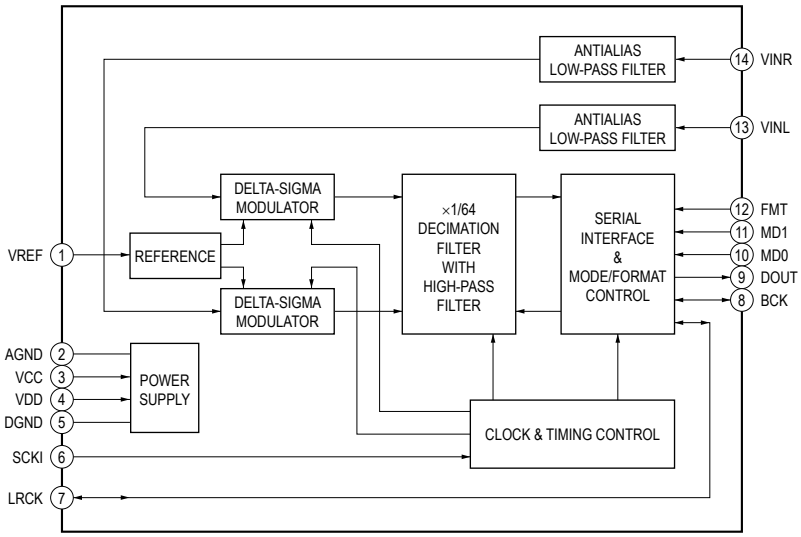
IC804 SI-3010KM-TLS



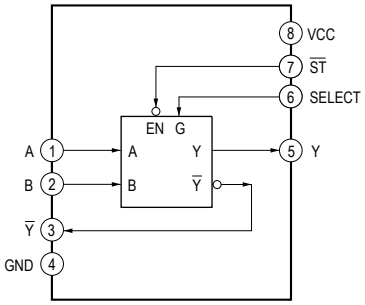
IC805, 806 AK4127VF-E2



IC807 PCM1808PWR

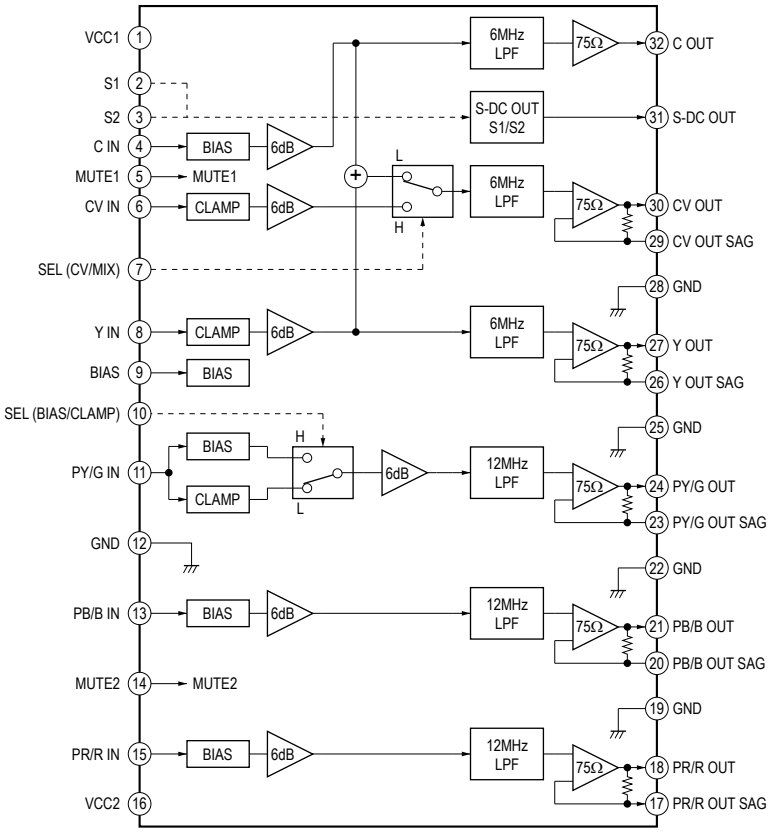


IC808 TC7WH157FK (TE85R)

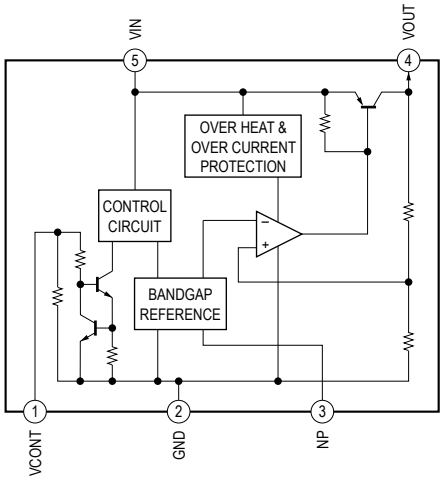


– I/O Board –

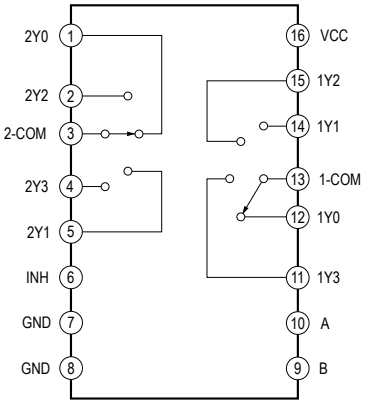
IC4002 BH7868FS-E2



IC4003 TK11150CSCL-G

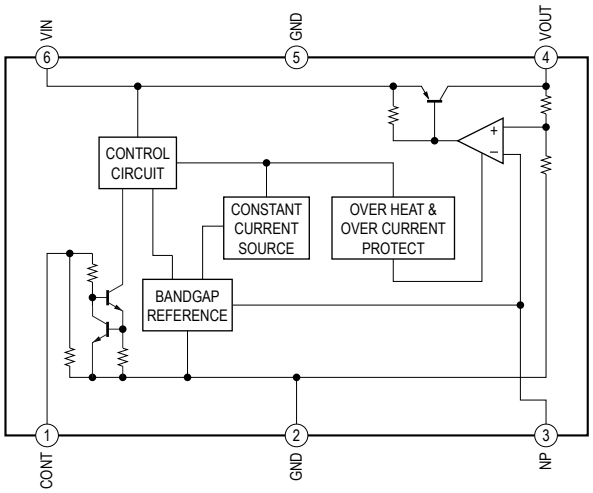


IC4004, 4007 MC14052 BDR2

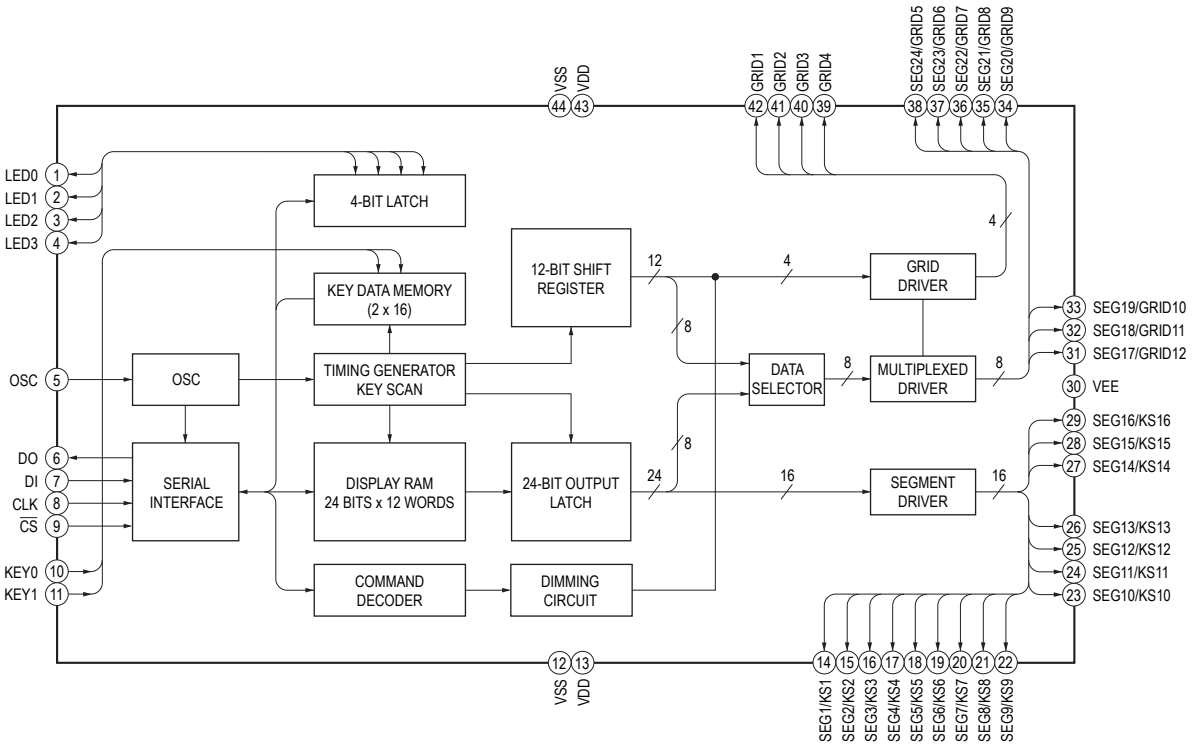


– FL-JACK Board –

IC5000 TK11233CMCL-G



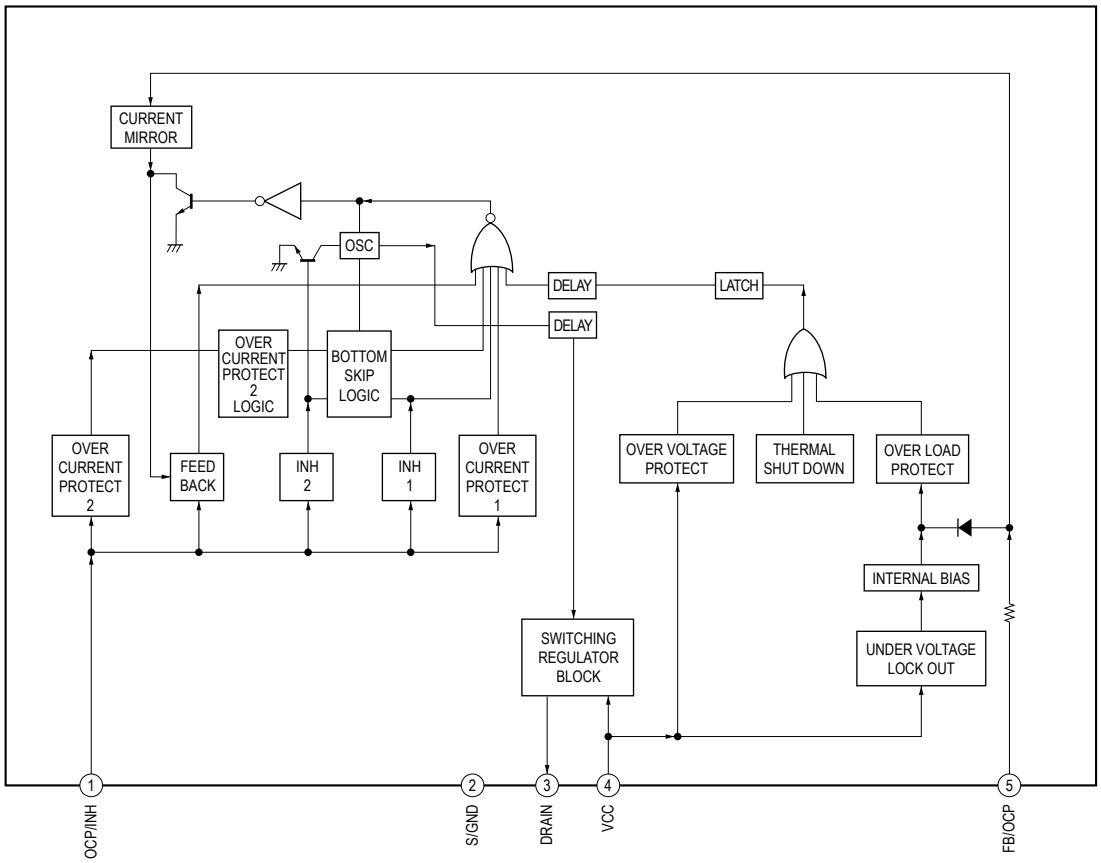
IC5001 HT16515



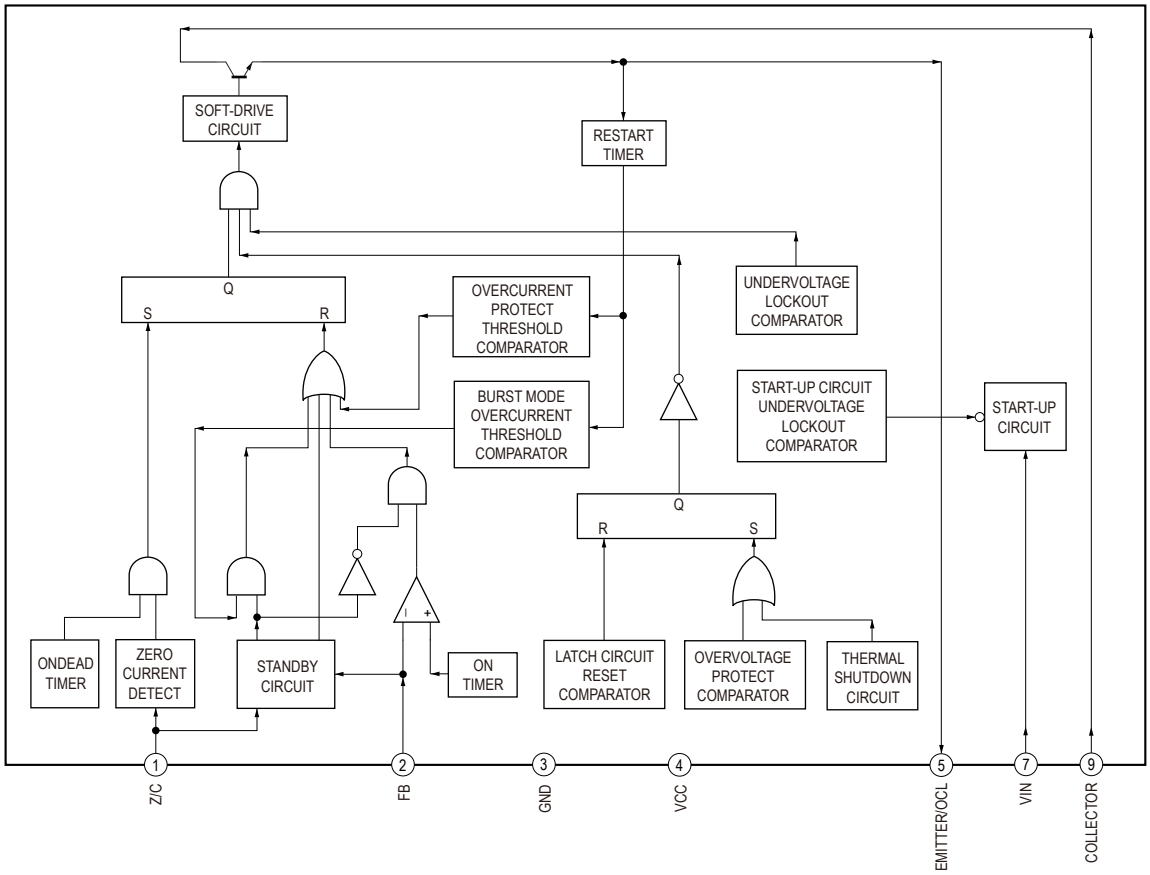
– POWER Board –

IC901 STR-F6138-LF1352 (US and Canadian models)

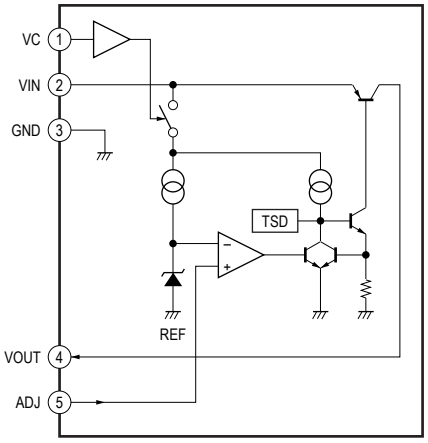
IC901 STR-F6168-LF1352 (240V AC area in E and Saudi Arabia models)



IC921 MR4020-7103



IC941 SI-3010KM-TLS



- **IC Pin Function Description**

MAIN BOARD IC503 R5F3640DDFAR (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	DAMP_SCDT	O	Serial data output to the stream processor
2	DAMP_SHIFT	O	Serial data transfer clock signal output to the stream processor
3	FL_CS	O	Chip select signal output to the fluorescent indicator tube driver
4	SIRCS_IN	I	SIRCS signal input from the remote control receiver
5	FL_DATA/LED_DATA	O	Serial data output to the fluorescent indicator tube driver and LED driver
6	CEC_RX_IN	I	CEC data input from the HDMI OUT connector
7	FL_CLK/LED_CLK	O	Serial data transfer clock signal output to the fluorescent indicator tube driver and LED driver
8	BYTE	I	External data bus width selection signal input terminal Fixed at "L" in this set
9	CNVSS	I	Processor mode switch input terminal
10	DIR_ERROR	I	PLL lock error signal and input data error detection signal input terminal Not used
11	DIR_RST	O	Reset signal output terminal Not used
12	RESET	I	System reset signal input from the reset signal generator "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it change to "H"
13	Xout	O	Main system clock output terminal (5 MHz)
14	Vss	-	Ground terminal
15	Xin	I	Main system clock input terminal (5 MHz)
16	Vcc	-	Power supply terminal (+3.3V)
17	DIR_XSTATE	I	Clock change status detection signal input from the digital audio interface receiver "L": change Not used
18	DIR_ZERO	I	Zero data detection signal input from the digital audio interface receiver Not used
19	DIR_CSFLAG	I	Channel change status detection signal input from the digital audio interface receiver "H": change Not used
20	AC_CUT	I	AC cut detection signal input terminal "L": AC cut on
21	DSP_SF_CE	O	Chip enable signal output terminal Not used
22	DSP_MISO	I	Serial data input terminal Not used
23	DSP_SPICLK	O	Serial data transfer clock signal output terminal Not used
24	DSP_MOSI	O	Serial data output terminal Not used
25	DSP_SPIDS	O	Device selection signal output terminal Not used
26	CEC_TX_IN	O	CEC data output to the HDMI OUT connector
27	DSP_RESET	O	Reset signal output terminal Not used
28	LED_PWM	O	LED drive signal output terminal Not used
29	E2P_CLK/S-AIR_CLK	I/O	Serial data transfer clock signal output to the EEPROM and two-way clock bus with the wireless transceiver
30	E2P_SDA/S-AIR_SDA	I/O	Two-way data bus with the EEPROM and wireless transceiver
31	TXD1	O	Transmission data for flash writing output terminal
32	RXD1	I	Receive data for flash writing input terminal
33	S-AIR_GPIO2/CLK1	I	Interrupt signal input from the wireless transceiver Request to send signal for flash writing input terminal
34	S-AIR_DET/RTS1	I	Wireless transceiver detection signal input terminal Clock signal for flash writing input terminal
35	DMP_TX_OUT	O	Serial data output to the DMPORT connector
36	DMP_RX_IN	I	Serial data input from the DMPORT connector
37	S-AIR_RST	O	Reset signal output to the wireless transceiver "L": reset (HCD-HDX285/HDX585/HDX685) Reset signal output to the wireless transceiver and sample rate converter "L": reset (HCD-HDX287WC/HDX587WC/HDX589W/HDX686W)
38	S-AIR_ADC_SEL	O	A/D converter selection signal output to the wireless transceiver (HCD-HDX285/HDX585/HDX685) Audio data selection signal output terminal (HCD-HDX287WC/HDX587WC/HDX589W/HDX686W)
39	P_CONT1	O	Power supply on/off control signal output terminal "H": power on
40	P_CONT2	O	Power supply on/off control signal output terminal Not used
41	P_CONT3	O	Power supply on/off control signal output terminal "H": power on
42	DC_CONT	O	Auto calibration microphone DC control signal output terminal
43	MIC_GAIN	O	Microphone gain control signal output terminal
44	CDM_OPEN_SW	I	Disc tray open/close detection switch input terminal Not used

Pin No.	Pin Name	I/O	Description
45	DVD_RST	O	Reset signal output to the digital audio interface receiver, servo DSP and flash memory "L": reset
46	WRITE_CE	I	Chip enable signal for flash writing input terminal Not used
47	DVD_SDI	O	Serial data output to the servo DSP
48	DVD_SDO	I	Serial data input from the servo DSP
49	DVD_SCO	I	Serial data transfer clock signal input from the servo DSP
50	DVD_XIFBUSY	O	Busy signal output to the servo DSP
51	DVD_XIFCS	I	Chip select signal input from the servo DSP
52	LED LAT	O	Serial data latch pulse signal output to the LED driver
53	KMODE	I	Karaoke mode information input terminal Not used
54	DRIVER_RST (EN)	O	Reset signal output to the digital power amplifier "L": reset
55, 56	OVERFLOW1, OVERFLOW2	I	Overflow detection signal input from the stream processor
57	DAMP_INIT	O	Reset signal output to the stream processor "L": reset
58	SOFT_MUTE	O	Soft muting on/off control signal output to the stream processor "L": muting on
59	DAMP_LAT1	O	Serial data latch pulse signal output to the stream processor
60	DAMP_LAT2	O	Serial data latch pulse signal output to the stream processor (HCD-HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
61	DAMP_LAT3	O	Serial data latch pulse signal output to the stream processor
62	Vcc	-	Power supply terminal (+3.3V)
63	LINK_SW	O	Link control signal output terminal
64	Vss	-	Ground terminal
65	JACK1/JACK2 /DMP_DET	I	Auto calibration microphone, headphone and digital media port adapter connecting detection signal input terminal
66	DC_DET	I	Speaker DC detection signal input terminal
67	SD/PVDD_DET	I	Shut down signal input from the digital power amplifier PVDD power supply detection signal input terminal
68	A.CAL_OUT	I	Speaker output detection signal for auto calibration input terminal
69	SACD_SEL	O	SA-CD selection signal output terminal Not used
70	DIR_HCE	O	Chip enable signal output terminal Not used
71	HP_MUTE	O	Headphone muting on/off control signal output terminal "L": muting on
72	HDMI_PCONT	O	HDMI hot plug detection control signal output terminal HDMI +5V power on/off control signal output terminal "H": power on
73	KEY_INT	I	Wake up signal input terminal
74	RDS_DATA	I	RDS data input terminal Not used
75	RDS_CLK	I	RDS clock signal input terminal Not used
76	ST_CE	O	Chip enable signal output to the tuner (FM/AM)
77	ST_DI	O	Serial data output to the tuner (FM/AM)
78	ST_DO	I	Serial data input from the tuner (FM/AM)
79	ST_CLK	O	Serial data transfer clock signal output to the tuner (FM/AM)
80	TUNED	I	Tuning detection signal input from the tuner (FM/AM) "L": tuned
81	V_SEL0	O	Video data selection signal output to the video amplifier "L": video muting on
82	V_SEL1	O	Video data selection signal output to the video amplifier "L": DMPORT, "H": others
83	V_SEL2	O	Video data selection signal output terminal Not used
84	IO_CE	O	Chip enable signal output to the changer controller
85	IO_RESET	O	Reset signal output to the changer controller and audio/video controller "L": reset
86	IO_DI	O	Serial data output to the changer controller
87	IO_DO	I	Serial data input from the audio/video controller
88	IO_CLK	O	Serial data transfer clock signal output to the changer controller
89	A_SEL5	O	Audio data selection signal output terminal Not used
90	MONO/ST_DET	I	Monaural/stereo detection signal input terminal
91	A.CAL MIC LEVEL	I	Microphone input level detection signal for auto calibration input terminal
92	DESTINATION	I	Destination setting terminal
93	MODEL	I	Model setting terminal
94, 95	KEY2, KEY1	I	Front panel key input terminal (A/D input)
96	Vss	-	Ground terminal
97	KEY0	I	Front panel key input terminal (A/D input)

Pin No.	Pin Name	I/O	Description
98	Vref	-	Reference voltage (+3.3V) terminal
99	Vcc	-	Power supply terminal (+3.3V)
100	DIR_HDOUT	I	Serial data input terminal Not used

MAIN BOARD IC1101 CXD9917R-A (240V AC area in E and Saudi Arabia models), CXD9927R-A (US and Canadian models) (RF AMP, SERVO DSP, MPEG DECODER, HDMI TRANSMITTER)

Pin No.	Pin Name	I/O	Description
1	OSN	-	RF offset cancellation capacitor connecting terminal
2	RFGC	O	RF AGC loop capacitor connecting terminal for DVD-ROM
3	IREF	I	Reference current input terminal
4	AVDD3	-	Power supply terminal (+3.3V)
5	AGND	-	Ground terminal
6	DVDA	I	AC coupled input path A
7	DVDB	I	AC coupled input path B
8	DVDC	I	AC coupled input path C
9	DVDD	I	AC coupled input path D
10	DVDRFP	I	AC coupled DVD RF signal input from the optical pick-up block
11	MA	I	DC coupled main-beam RF signal input A
12	MB	I	DC coupled main-beam RF signal input B
13	MC	I	DC coupled main-beam RF signal input C
14	MD	I	DC coupled main-beam RF signal input D
15	SA	I	DC coupled sub-beam RF signal input A Not used
16	SB	I	DC coupled sub-beam RF signal input B Not used
17	TNI	I	3 beam satellite PD signal negative input from the optical pick-up block
18	TPI	I	3 beam satellite PD signal positive input from the optical pick-up block
19, 20	MDI1, MDI2	I	Laser power monitor input from the optical pick-up block
21	LDO2	O	Laser diode drive signal output to the optical pick-up block (for DVD)
22	LDO1	O	Laser diode drive signal output to the optical pick-up block (for CD)
23	SVDD3	-	Power supply terminal (+3.3V)
24	CSO	O	Central servo signal output terminal Not used
25	RFLVL	O	RFRP low pass output terminal Not used
26	SGND	-	Ground terminal
27	V2REFO	O	Reference voltage (+2.8V) output terminal Not used
28	V2O	O	Reference voltage (+2V) output to the optical pick-up block
29	VREFO	O	Reference voltage (+1.4V) output terminal
30	FEO	O	Focus error monitor output terminal Not used
31	TEO	O	Tracking error monitor output terminal Not used
32	TEZISLV	O	Tracking error slicing level output terminal Not used
33	OP_OUT	O	Output from the internal operational amplifier Not used
34	OP_INN	I	Negative input to the internal operational amplifier Not used
35	OP_INP	I	Positive input to the internal operational amplifier Not used
36	DMO	O	Spindle motor control signal output to the motor driver
37	FMO	O	Sled motor control signal output to the motor driver
38	TROPENPWM	O	Loading motor control signal output terminal Not used
39	IOPMON	I	Power monitor terminal
40	TRO	O	Tracking coil control signal output to the coil driver
41	FOO	O	Focus coil control signal output to the coil driver
42	AGND18	-	Ground terminal
43	AVDD18	-	Power supply terminal (+1.8V)
44	USB_DP	I/O	USB communication data (+) input/output terminal Not used
45	USB_DM	I/O	USB communication data (-) input/output terminal Not used
46	USB_VDD3	-	Power supply terminal (+3.3V)
47	USB_VSS	-	Ground terminal
48	PAD_VRT	I/O	USB generating reference current input/output terminal Not used
49	USB_VDD18	-	Power supply terminal (+1.8V)
50	USB_VSS	-	Ground terminal
51	DIR_ERROR	I	PLL lock error signal and input data error detection signal input from the digital audio interface receiver "H": error
52	DIR_AUDIO	I	PCM/Non PCM detection signal input from the digital audio interface receiver "L": PCM, "H": Non PCM

Pin No.	Pin Name	I/O	Description
53	LIMITSW	I	Limit detection switch input terminal
54	MSW	O	CD/DVD selection signal output terminal "L": CD, "H": DVD
55	DVDD18	-	Power supply terminal (+1.8V)
56 to 64	HA2 to HA8, HA18, HA19	O	Address signal output to the flash ROM
65	DVDD3	-	Power supply terminal (+3.3V)
66	XWR	O	Write enable signal output to the flash ROM
67 to 75	HA16 to HA9, HA20	O	Address signal output to the flash ROM
76	XROMCS	O	Chip select signal output to the flash ROM
77	HA1	O	Address signal output to the flash ROM
78	XRD	O	Read enable signal output to the flash ROM
79, 80	HD0, HD1	I/O	Two-way data bus with the flash ROM
81	DVSS	-	Ground terminal
82 to 86	HD2 to HD6	I/O	Two-way data bus with the flash ROM
87	HA21	O	Address signal output to the flash ROM
88	RESERVED	O	Not used
89	HD7	I/O	Two-way data bus terminal with the flash ROM
90	DVSS	-	Ground terminal
91, 92	HA17, HA0	O	Address signal output to the flash ROM
93	DVDD18	-	Power supply terminal (+1.8V)
94	FWD	O	Loading motor drive signal output terminal (forward direction) Not used
95	REV	O	Loading motor drive signal output terminal (reverse direction) Not used
96	DVDD3	-	Power supply terminal (+3.3V)
97	IFSDO	O	Serial data output to the system controller
98	IFCK	O	Serial data transfer clock signal output to the system controller
99	xIFCS	O	Chip select signal output to the system controller
100	IFSDI	I	Serial data input from the system controller
101	SCL	O	Serial data transfer clock signal output to the EEPROM
102	SDA	I/O	Two-way data bus with the EEPROM
103	CKSW	I	Chucking detection switch input terminal Not used
104	OCSW	I	Disc tray open/close detection switch input terminal Not used
105	RXD	I	Receive data for flash writing input terminal
106	TXD	O	Transmission data for flash writing output terminal
107	ICE	I	ICE mode enable signal input terminal Not used
108	xSYSRST	I	Reset signal input from the system controller "L": reset
109	RESERVED	I	Not used
110	IFBSY	I	Busy signal input from the system controller
111	DQM0	O	Data mask signal output to the SD-RAM
112	EEWP	O	Write protect signal output to the EEPROM
113 to 117	RD7 to RD3	I/O	Two-way data bus with the SD-RAM
118	DVDD3	-	Power supply terminal (+3.3V)
119 to 129	RD2 to RD0, RD15 to RD8	I/O	Two-way data bus with the SD-RAM
130	TSD_M	O	Thermal shut down signal output to the coil/motor driver
131	DVDD3	-	Power supply terminal (+3.3V)
132	DQM1	O	Data mask signal output to the SD-RAM
133	RWE#	O	Write enable signal output to the SD-RAM
134	CAS#	O	Column address strobe signal output to the SD-RAM
135	RAS#	O	Row address strobe signal output to the SD-RAM
136	RCS#	O	Chip select signal output to the SD-RAM
137, 138	BA0, BA1	O	Bank address signal output to the SD-RAM
139 to 141	RA10, RA0, RA1	O	Address signal output to the SD-RAM
142	DVDD18	-	Power supply terminal (+1.8V)
143, 144	RA2, RA3	O	Address signal output to the SD-RAM
145	DVDD3	-	Power supply terminal (+3.3V)
146	DRCLK	O	Serial data transfer clock signal output to the SD-RAM

Pin No.	Pin Name	I/O	Description
147	CKE	O	Clock enable signal output to the SD-RAM
148	DVSS	-	Ground terminal
149 to 155	RA11, RA9 to RA4	O	Address signal output to the SD-RAM
156	DVDD3	-	Power supply terminal (+3.3V)
157	MUTE123	O	Muting signal output to the coil/motor driver (for focus/tracking coil and sled motor)
158	MUTE	O	Muting signal output to the coil/motor driver (for spindle motor)
159	DDC_DA	I/O	Two-way data bus with the HDMI OUT connector
160	DVDD18	-	Power supply terminal (+1.8V)
161	DDC_CLK	O	Serial data transfer clock signal output to the HDMI OUT connector
162	HTPLG	I	HDMI hot plug detection signal input terminal
163	AGND3	-	Ground terminal
164	EXT_RES	I	External resistor connecting terminal
165, 166	AVDD3	-	Power supply terminal (+3.3V)
167	EXT_CAP	I	External capacitor connecting terminal
168, 169	AGND3, AGND18	-	Ground terminal
170	TXCN	O	TMDS clock signal (negative) output to the HDMI OUT connector
171	TXCP	O	TMDS clock signal (positive) output to the HDMI OUT connector
172	AVDD18	-	Power supply terminal (+1.8V)
173	TX0N	O	TMDS data (negative) output to the HDMI OUT connector
174	TX0P	O	TMDS data (positive) output to the HDMI OUT connector
175	AGND18	-	Ground terminal
176	TX1N	O	TMDS data (negative) output to the HDMI OUT connector
177	TX1P	O	TMDS data (positive) output to the HDMI OUT connector
178	AVDD18	-	Power supply terminal (+1.8V)
179	TX2N	O	TMDS data (negative) output to the HDMI OUT connector
180	TX2P	O	TMDS data (positive) output to the HDMI OUT connector
181	AGND18	-	Ground terminal
182	R/Cr/Pr	O	Component video (Pr/Cr) signal output to the video amplifier
183	B/Cb/Pb	O	Component video (Pb/Cb) signal output to the video amplifier
184	DACVSSA	-	Ground terminal
185	Y/G	O	Component video (Y) signal output to the video amplifier
186	DACVDDA	-	Power supply terminal (+3.3V)
187	CVBS	O	Composite video signal output to the video amplifier Not used
188	DACVSSB	-	Ground terminal
189	C	O	Chroma signal output to the video amplifier
190	DACVDDB	-	Power supply terminal (+3.3V)
191	Y	O	Y signal output to the video amplifier
192	DACVSSC	-	Ground terminal
193	FS	I	Full scale adjustment terminal
194	VREF	I	Bandgap reference voltage terminal
195	DACVDDC	-	Power supply terminal (+3.3V)
196	VBUS_OE	O	VBUS control signal output terminal Not used
197	VBUS_OC	I	VBUS over current detection signal input terminal Not used
198	DIR_XSTATE	I	Clock change status detection signal input from the digital audio interface receiver "L": change
199	SPMCK	I	Master clock signal input from the digital audio interface receiver
200	SPBCK	I	Bit clock signal input from the digital audio interface receiver
201	SPLRCK	I	L/R sampling clock signal input from the digital audio interface receiver
202	ADIN(SPDATA)	I	Audio data input from the digital audio interface receiver
203	ACLK	O	Master clock signal output to the stream processor
204	ABCK	O	Bit clock signal output to the stream processor
205	ALRCK	O	L/R sampling clock signal output to the stream processor
206	MC_DATA(ADIN)	I	Audio data input from the A/D converter
207	DVDD3	-	Power supply terminal (+3.3V)
208	MIC	I	Karaoke microphone detection signal input terminal Not used
209	WIDE	O	Normal/squeeze selection signal output terminal Not used

Pin No.	Pin Name	I/O	Description
210	REG_SEL/DSEL	O	RGB and disc selection signal output terminal Not used
211	TRG_SW	I	Trigger detection switch input terminal Not used
212	DVDD18	-	Power supply terminal (+1.8V)
213	KMOD	O	Karaoke mode status output terminal Not used
214	DIR_CSFCAG	I	Channel change status detection signal input from the digital audio interface receiver "H": change
215	SPDIF	O	SPDIF audio data output terminal Not used
216	APLLVDD3	-	Power supply terminal (+3.3V)
217	APLLCAP	I	External capacitor connecting terminal
218	APLLVSS	-	Ground terminal
219, 220	ADACVSS2, ADACVSS1	-	Ground terminal
221	DIR_CE	O	Chip enable signal output to the digital audio interface receiver
222	ASDATA3	O	Audio data output to the wireless transceiver
223	ASDATA2	O	Audio data output to the stream processor
224	AVCM	-	Audio D/A converter reference voltage terminal
225	ASDATA1	O	Audio data output to the wireless transceiver and stream processor (HCD-HDX285/HDX287WC/HDX585/HDX587WC/HDX685) Audio data output to the wireless transceiver (HCD-HDX589W/HDX686W)
226	ASDATA0	O	Audio data output to the wireless transceiver and stream processor
227	DIR_CL	O	Serial data transfer clock signal output to the digital audio interface receiver
228, 229	ADACVDD1, ADACVDD2	-	Power supply terminal (+3.3V)
230	DIR_DI	O	Serial data output to the digital audio interface receiver
231	DIR_DO	I	Serial data input from the digital audio interface receiver
232	ADACVSS1	-	Ground terminal
233	ADACVDD1	-	Power supply terminal (+3.3V)
234	SADCVDD18	-	Power supply terminal (+1.8V)
235	SADCVSS18	-	Ground terminal
236	RFGND18	-	Ground terminal
237	RFVDD18	-	Power supply terminal (+1.8V)
238	XTALO	O	System clock output terminal (27 MHz)
239	XTALI	I	System clock input terminal (27 MHz)
240	JITFO	O	Output terminal of the RF jitter meter
241	JITFN	I	Input terminal of the RF jitter meter
242	PLLVSS	-	Ground terminal
243	PLLVDD3	-	Power supply terminal (+3.3V)
244	LPFON	O	Loop filter amplifier negative output terminal
245	LPFIP	I	Loop filter amplifier positive input terminal
246	LPFIN	I	Loop filter amplifier negative input terminal
247	LPFOP	O	Loop filter amplifier positive output terminal
248	ADCVDD3	-	Power supply terminal (+3.3V)
249	ADCVSS	-	Ground terminal
250	RFVDD3	-	Power supply terminal (+3.3V)
251	RFRPDC	O	RF ripple detection signal output terminal
252	RFRPAC	I	RF ripple detection signal input terminal
253	HRFZC	I	High frequency RF ripple zero crossing terminal
254	CRTPLP	O	Defect level filter capacitor connecting terminal
255	RFGND18	-	Ground terminal
256	OSP	O	RF offset cancellation capacitor connecting terminal

SERIPARA BOARD IC001 BH2210FV-E2 (CHANGER CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	CTLIO	I	Input/output selection signal input terminal "L": input, "H": output Fixed at "L": in this set
2	RESET_B	I	Reset signal input from the system controller "L": reset
3	CLK	I	Serial data transfer clock signal input from the system controller
4	LATCH	I	Serial data latch pulse signal input from the system controller
5 to 7	P15 to P13	I	Not used
8	P12	I	Main tray open detection switch input terminal "L": main tray is opened
9	P11	I	Sub tray out detection switch input terminal "L": sub tray out
10	P10	I	Sub tray in detection switch input terminal "L": sub tray in
11	P9	I	Main tray close detection switch input terminal "L": main tray is closed
12	P8	I	Disc insert detection signal input terminal
13	LATCHO	O	Serial data latch pulse signal output to the audio/video controller
14	CLKO	O	Serial data transfer clock signal output to the audio/video controller
15	DO1	O	Serial data output to the audio/video controller
16	DI2	I	Serial data input terminal Not used
17, 18	P7, P6	O	Not used
19, 20	P5, P4	O	Stocker up/down motor drive signal output terminal
21, 22	P3, P2	O	Not used
23, 24	P1, P0	O	Loading motor drive signal output terminal
25	DO2	O	Serial data output to the audio/video controller
26	DI2	I	Serial data input from the system controller
27	VSS	-	Ground terminal
28	VCC	-	Power supply terminal (+3.3V)

SERIPARA BOARD IC002 BH2210FV-E2 (AUDIO/VIDEO CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	CTLIO	I	Input/output selection signal input terminal "L": input, "H": output Fixed at "L": in this set
2	RESET_B	I	Reset signal input from the system controller "L": reset
3	CLK	I	Serial data transfer clock signal input from the changer controller
4	LATCH	I	Serial data latch pulse signal input from the changer controller
5 to 8	P15 to P12	I	Stocker position detection rotary encoder input terminal
9 to 12	P11 to P8	I	Mode detection rotary encoder input terminal
13	LATCHO	O	Serial data latch pulse signal output terminal Not used
14	CLKO	O	Serial data transfer clock signal output terminal Not used
15	DO1	O	Serial data output terminal Not used
16	DI2	I	Serial data input from the system controller
17	P7	O	Audio data selection signal output terminal "L": DVD, DMPORT, AUDIO, "H": TUNER, TV/VIDEO
18	P6	O	Audio data selection signal output terminal "L": DVD, TV/VIDEO, DMPORT, "H": TUNER, AUDIO
19, 20	P5, P4	O	Not used
21	P3	O	Audio data selection signal output terminal "L": AUDIO, "H": others
22	P2	O	Audio data selection signal output terminal "L": DMPORT, "H": others
23	P1	O	Video data selection signal output terminal "L": others, "H": DMPORT
24	P0	O	Not used
25	DO2	O	Serial data output to the system controller
26	DI2	I	Serial data input from the changer controller
27	VSS	-	Ground terminal
28	VCC	-	Power supply terminal (+3.3V)

KEY BOARD IC802 BU2099FV (LED DRIVER)

Pin No.	Pin Name	I/O	Description
1	VSS	-	Ground terminal
2	NC	-	Not used
3	DATA	I	Serial data input from the system controller
4	CLK	I	Serial data transfer clock signal input from the system controller
5	LCK	I	Serial data latch pulse signal input from the system controller
6	Q0	O	LED drive signal output terminal for DISC 5 indicator (green) "L": LED on
7	Q1	O	LED drive signal output terminal for DISC 5 indicator (orange) "L": LED on
8	Q2	O	LED drive signal output terminal for DISC 4 indicator (green) "L": LED on
9	Q3	O	LED drive signal output terminal for DISC 4 indicator (orange) "L": LED on
10	Q4	O	LED drive signal output terminal for DISC 3 indicator (green) "L": LED on
11	Q5	O	LED drive signal output terminal for DISC 3 indicator (orange) "L": LED on
12	Q6	O	LED drive signal output terminal for DISC 2 indicator (green) "L": LED on
13	Q7	O	LED drive signal output terminal for DISC 2 indicator (orange) "L": LED on
14	Q8	O	LED drive signal output terminal for DISC 1 indicator (green) "L": LED on
15	Q9	O	LED drive signal output terminal for DISC 1 indicator (orange) "L": LED on
16, 17	Q10, Q11	-	Not used
18	SO	O	Serial data output terminal Not used
19	X-OE	I	Output enable signal input terminal Not used
20	VDD	-	Power supply terminal (+3.3V)

HCD-HDX285/HDX287WC/HDX585/HDX587WC/HDX589W/HDX685/HDX686W
SECTION 7
EXPLODED VIEWS

Note:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Abbreviation
  CND : Canadian model
  E3 : 240V AC area in E model
  EA : Saudi Arabia model

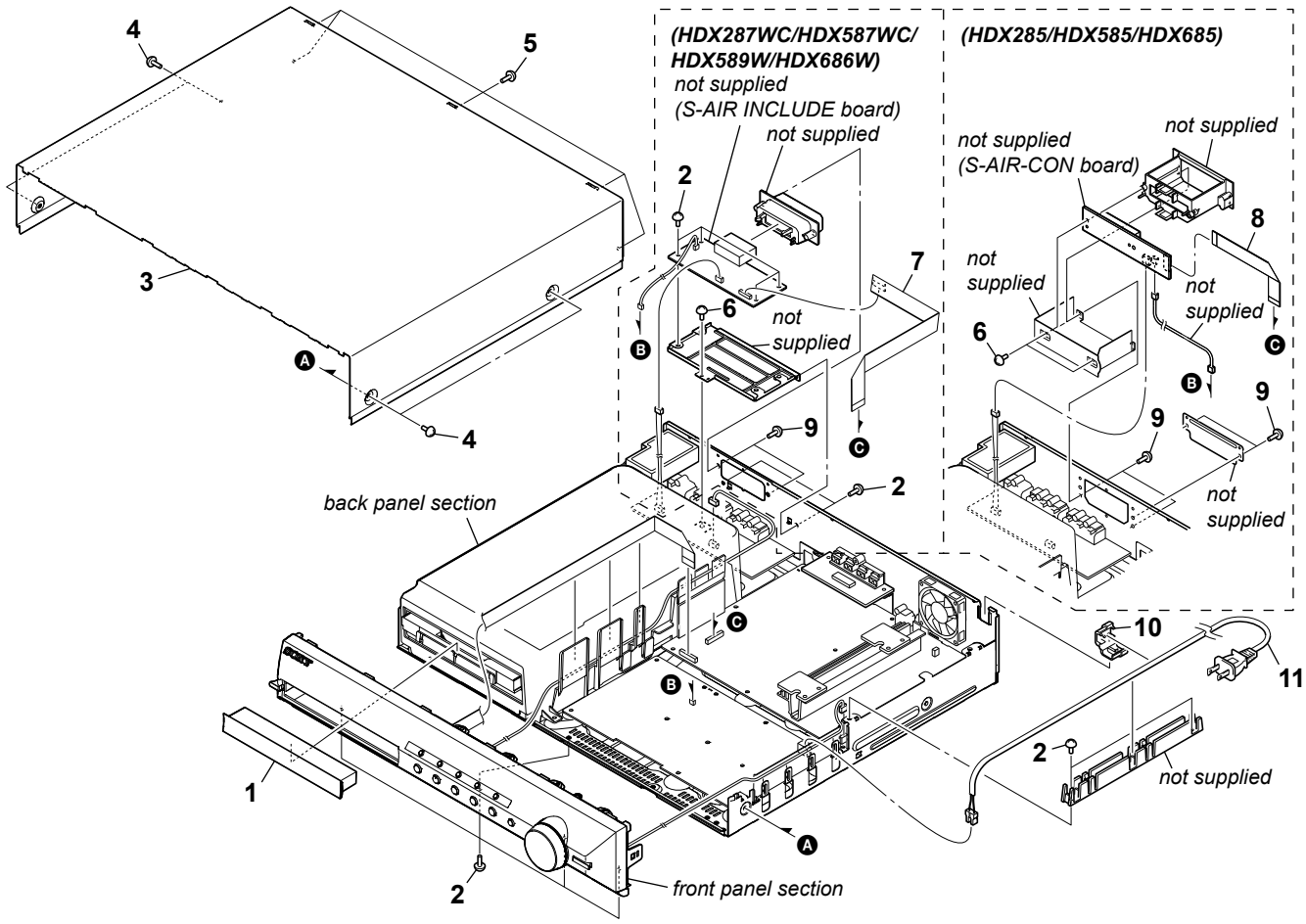
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

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

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

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

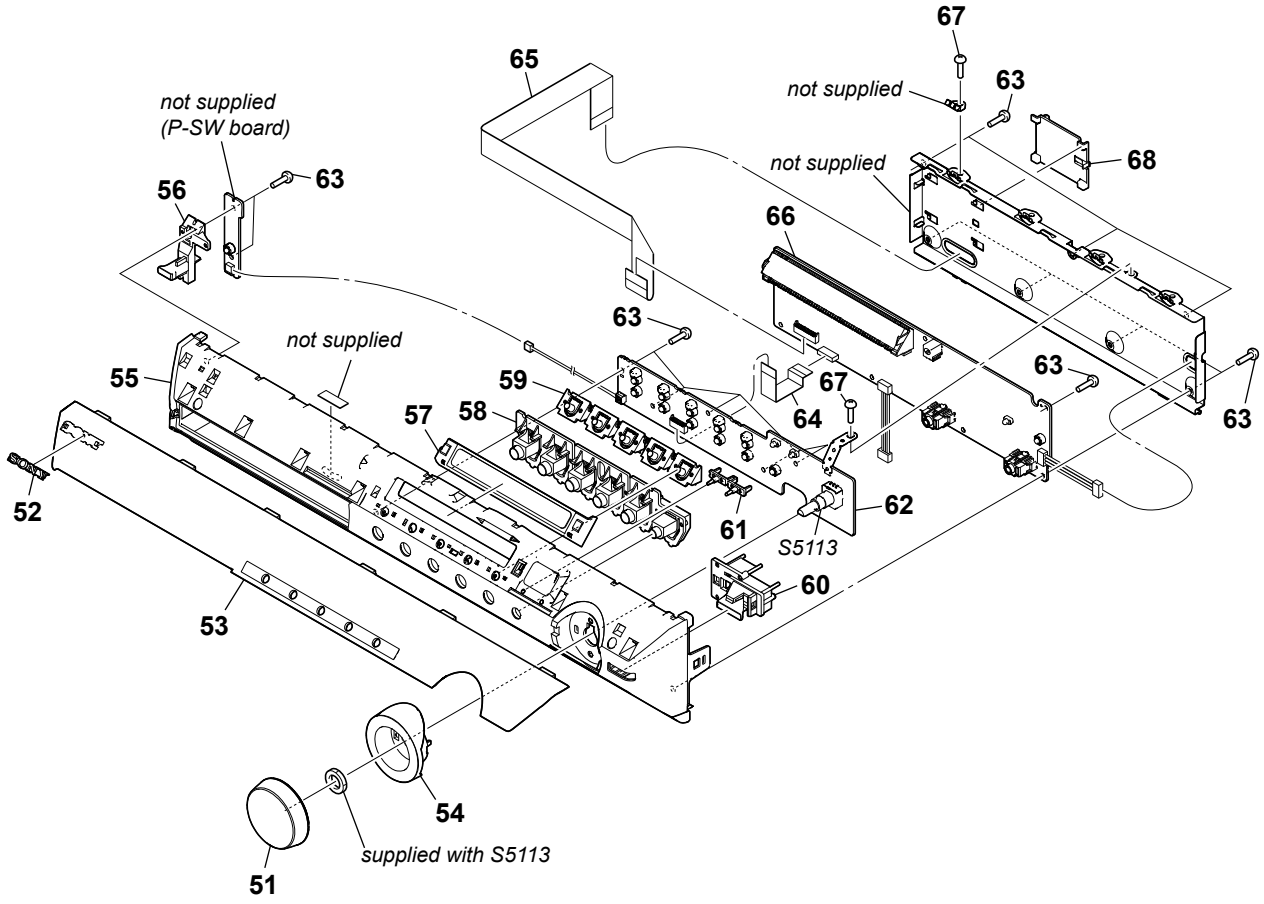
7-1. CASE SECTION



Note: If wire (flat type) is replaced, install it after bending it in the same form as thet before replacement

Ref. No.	Part No.	Description	Remark
1	4-120-908-01	PANEL, LOADING (DCY)	
2	3-077-331-21	+BV3 (3-CR)	
3	4-120-919-01	CASE (DCY)	
4	3-363-099-22	SCREW (CASE 3 TP2)	
5	3-704-515-32	SCREW (BV/RING)	
6	3-077-331-01	+BV3 (3-CR)	
7	1-828-331-11	WIRE (FLAT TYPE) (13 CORE)	
8	1-828-330-11	WIRE (FLAT TYPE) (13 CORE)	
9	3-077-331-11	+BV3 (3-CR)	
10	3-703-244-00	CORD BUSH (2104)	
⚠ 11	1-834-966-41	POWER-SUPPLY CORD (EA, E3)	
⚠ 11	1-834-978-11	CORD, POWER (US, CND)	

7-2. FRONT PANEL SECTION

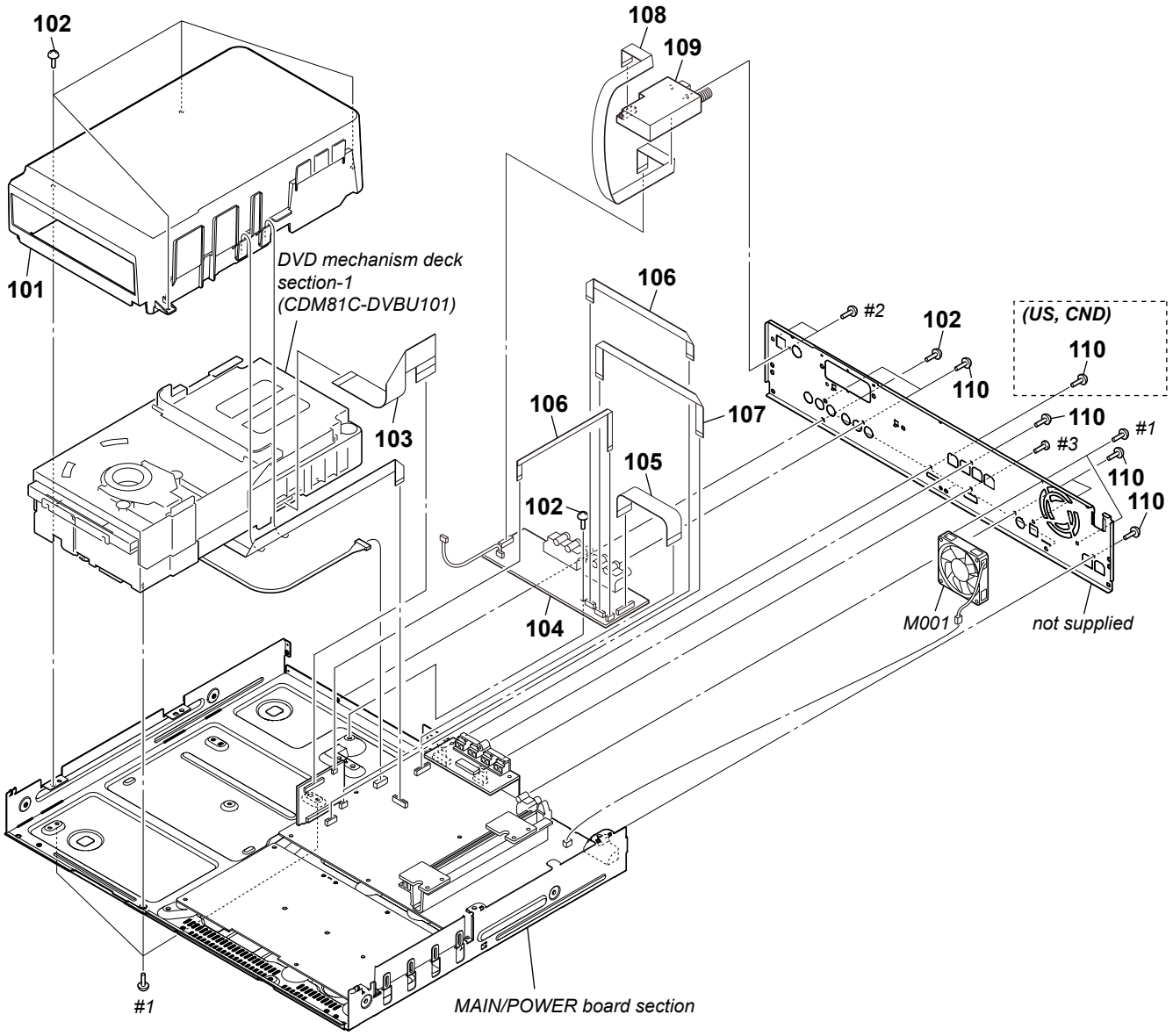


Note: If wire (flat type) is replaced, install it after bending it in the same form as thet before replacement

Ref. No.	Part No.	Description	Remark
51	4-120-907-01	KNOB (VOL-DCY)	
52	3-943-995-01	EMBLEM (NO.5), SONY	
53	4-120-905-02	WINDOW (DCY) (HDX585)	
53	4-120-905-12	WINDOW (DCY) (HDX686W)	
53	4-120-905-22	WINDOW (DCY) (HDX685)	
53	4-120-905-32	WINDOW (DCY) (HDX287WC)	
53	4-120-905-42	WINDOW (DCY) (HDX587WC)	
53	4-120-905-52	WINDOW (DCY) (HDX589W)	
53	4-120-905-62	WINDOW (DCY) (HDX285)	
54	4-120-906-02	RING (VOL-DCY)	
55	4-120-904-01	PANEL, FRONT (DCY) (HDX285: US/HDX585/HDX685)	
55	4-120-904-11	PANEL, FRONT (DCY) (HDX287WC/HDX587WC/HDX589W/HDX686W)	
55	4-120-904-21	PANEL, FRONT (DCY) (HDX285: EA, E3)	
56	4-120-909-01	BUTTON (POWER-DCY) (I/⏻)	

Ref. No.	Part No.	Description	Remark
57	4-120-913-01	FILTER (COLOR-DCY)	
58	4-120-910-01	BUTTON (PLAY-DCY) (⏏, ►, ■, I◄◄, I◄◄, FUNCTION)	
59	4-120-922-01	BUTTON (DISC)	
60	4-120-911-02	BUTTON (BOOSTER) (DMPORT BOOSTER)	
61	4-120-912-01	INDICATOR (MM-DCY)	
62	A-1602-530-A	KEY BOARD, COMPLETE	
63	3-087-053-01	+BVTP2.6 (3CR)	
64	1-828-317-11	WIRE (FLAT TYPE) (11 CORE)	
65	1-828-353-11	WIRE (FLAT TYPE) (17 CORE)	
66	A-1602-528-A	FL-JACK BOARD, COMPLETE	
67	3-077-331-21	+BV3 (3-CR)	
68	4-120-914-01	HOLDER (FFC-DCY)	
S5113	1-480-136-11	ENCODER, ROTARY (12 TYPE) (VOLUME)	

7-3. BACK PANEL SECTION

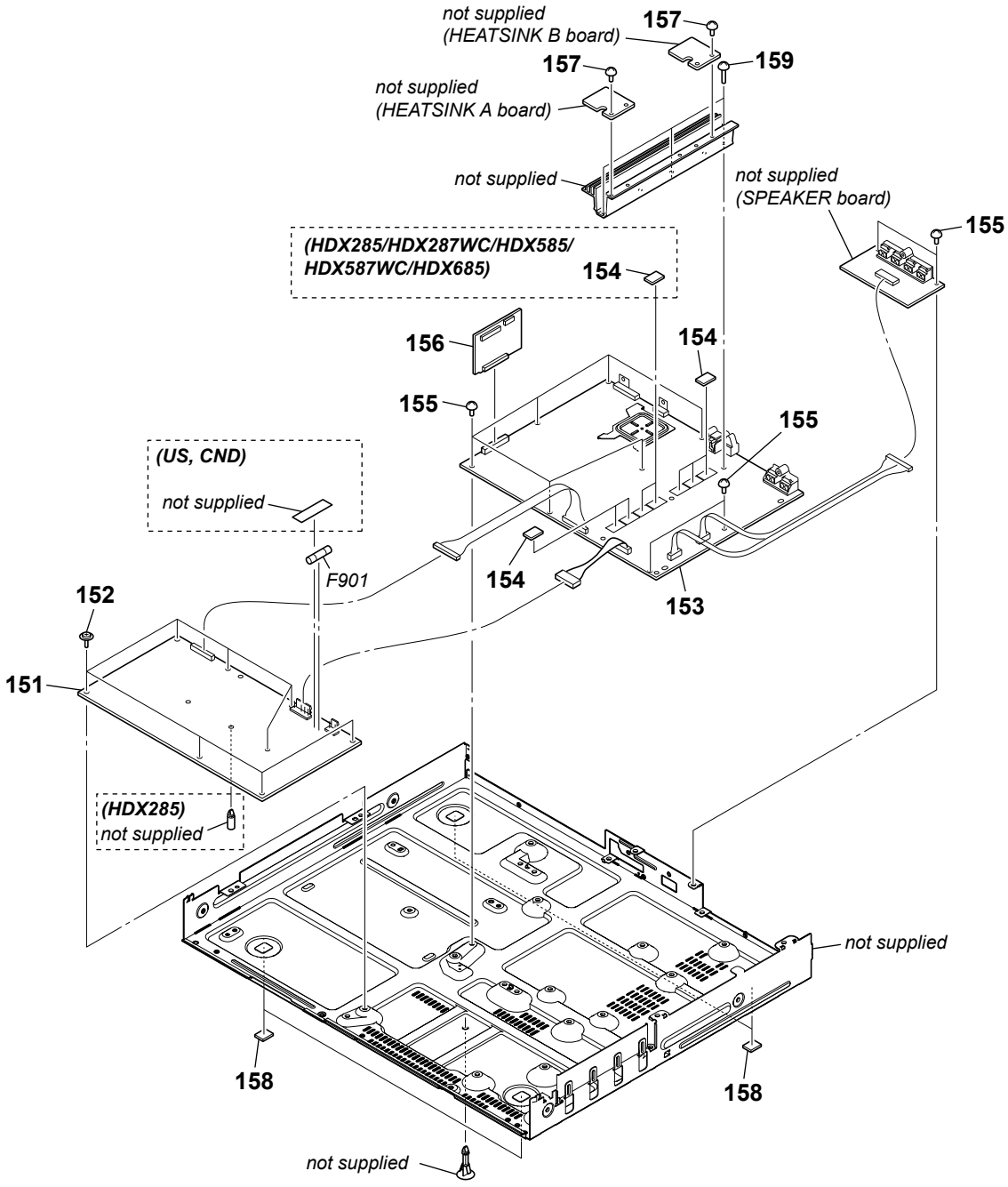


Note: If wire (flat type) is replaced, install it after bending it in the same form as thet before replacement

Ref. No.	Part No.	Description	Remark
101	4-120-915-01	COVER (CDM-DCY)	
102	3-077-331-21	+BV3 (3-CR)	
103	1-828-370-11	WIRE (FLAT TYPE) (21 CORE)	
104	A-1602-537-A	I/O BOARD, COMPLETE	
105	1-828-347-11	WIRE (FLAT TYPE) (17 CORE)	
106	1-828-289-11	WIRE (FLAT TYPE) (5 CORE)	
107	1-828-310-11	WIRE (FLAT TYPE) (9 CORE)	
108	1-828-955-11	WIRE (FLAT TYPE) (9 CORE)	

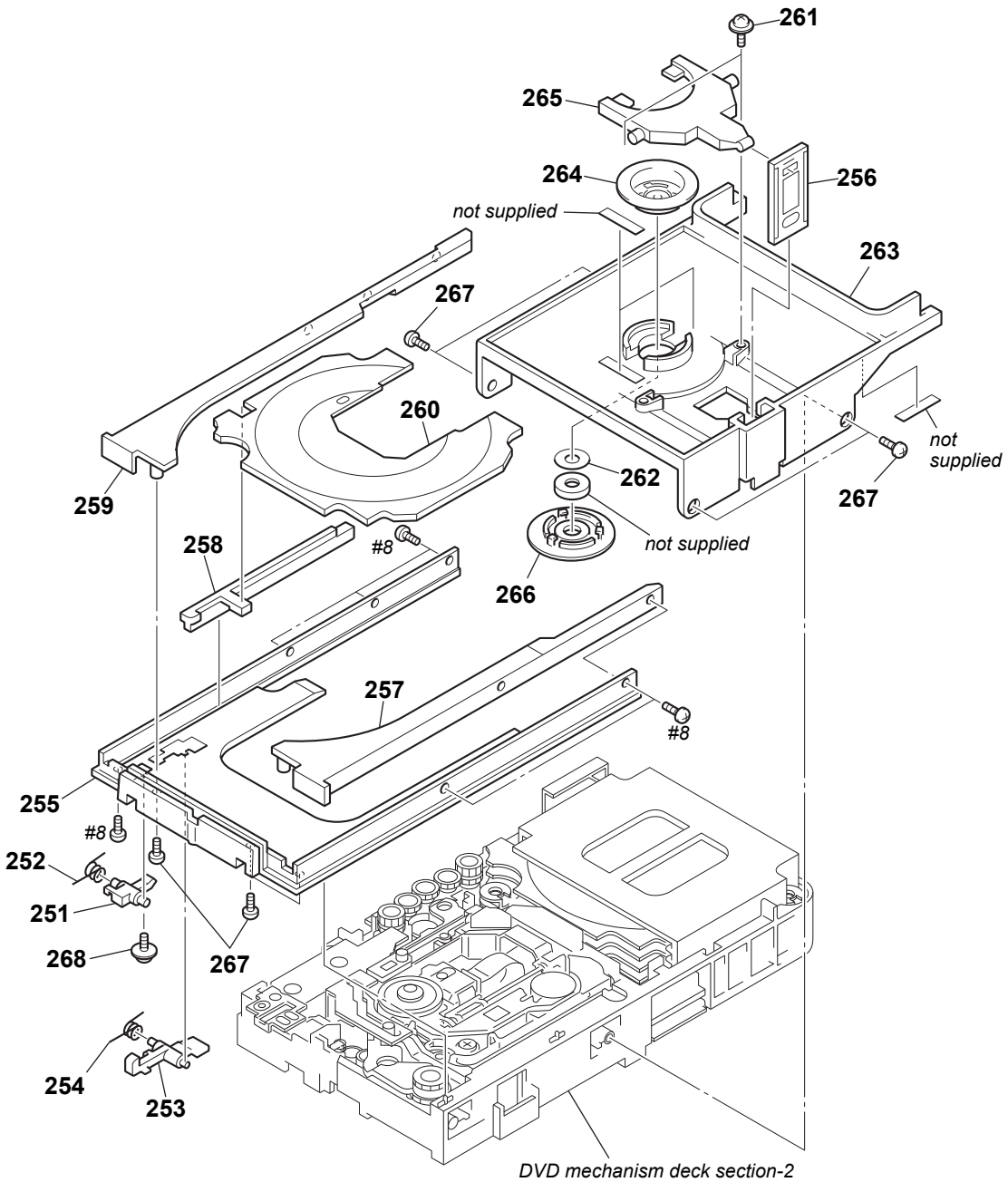
Ref. No.	Part No.	Description	Remark
109	1-693-778-11	TUNER (FM/AM) (EA, E3)	
109	1-693-779-11	TUNER (FM/AM) (US, CND)	
110	3-077-331-01	+BV3 (3-CR)	
M001	1-787-396-11	D.C. FAN (50 SQUARE)	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
#3	7-682-547-04	SCREW +B 3X6	

7-4. MAIN/POWER BOARD SECTION



Ref. No.	Part No.	Description	Remark
151	A-1568-848-A	POWER BOARD, COMPLETE (EA, E3)	
151	A-1568-850-A	POWER BOARD, COMPLETE (US, CND)	
152	2-677-839-01	+PWH 3X8 (SUMITITE)	
153	A-1602-539-A	MAIN BOARD, COMPLETE (for SERVICE)	(HDX285: EA, E3)
153	A-1602-547-A	MAIN BOARD, COMPLETE (for SERVICE)	(HDX285: US)
153	A-1602-568-A	MAIN BOARD, COMPLETE (for SERVICE)	(HDX589W)
153	A-1602-575-A	MAIN BOARD, COMPLETE (for SERVICE)	(HDX287WC/HDX587WC)
153	A-1602-588-A	MAIN BOARD, COMPLETE (for SERVICE)	(HDX685)
153	A-1602-597-A	MAIN BOARD, COMPLETE (for SERVICE)	(HDX686W)
153	A-1703-692-A	MAIN BOARD, COMPLETE (for SERVICE)	(HDX585)
154	4-125-473-01	SHEEET, RADIATION (US)	
154	4-125-473-11	SHEEET, RADIATION (CND, E3, EA)	
155	3-077-331-21	+BV3 (3-CR)	
156	A-1602-535-A	SERIPARA BOARD, COMPLETE	
157	3-077-331-01	+BV3 (3-CR)	
158	4-232-478-51	FOOT	
159	3-077-331-11	+BV3 (3-CR)	
F901	1-533-311-12	FUSE, GLASS CYLINDRICAL (DIA.5) (8A/125V)	(US, CND)
F901	1-576-232-51	FUSE (H.B.C.) (T5AH/250V) (EA, E3)	

7-5. DVD MECHANISM DECK SECTION-1 (CDM81C-DVBU101)

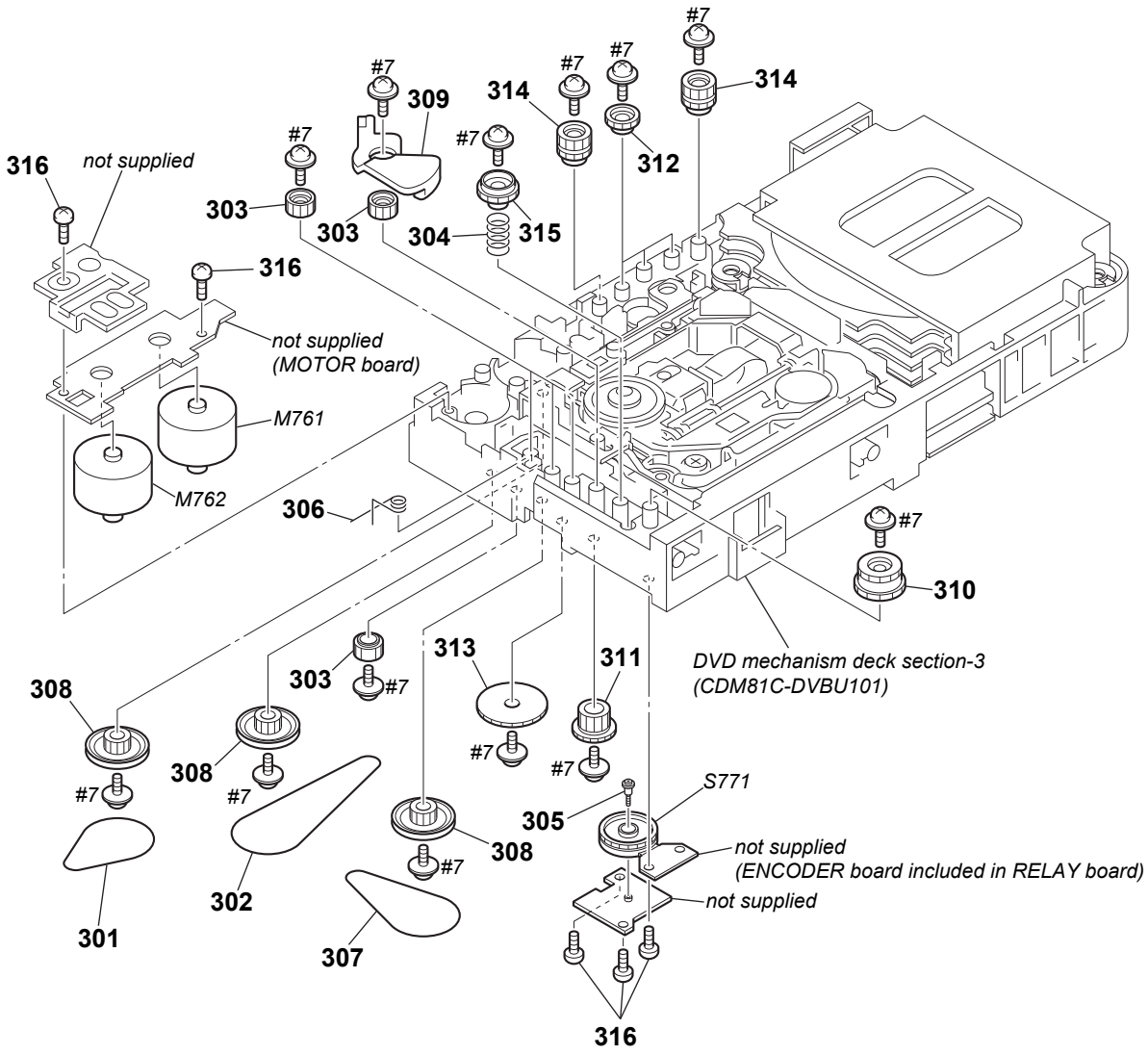


DVD mechanism deck section-2
(CDM81C-DVBU101)

Ref. No.	Part No.	Description	Remark
251	4-251-849-01	LEVER (SW2)	
252	4-251-991-01	SPRING (SW2), TORSION	
253	4-251-860-01	LEVER (LOCK)	
254	4-251-867-01	SPRING (LOCK), TORSION	
255	4-251-828-01	TRAY (MAIN)	
256	4-251-822-01	JOINT (LIFTER)	
257	4-251-857-01	COVER (R)	
258	4-251-830-01	SLIDER (ST)	
259	4-251-858-01	COVER (L)	
260	4-251-829-02	TRAY (SUB)	

Ref. No.	Part No.	Description	Remark
261	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
262	4-251-923-01	YOKE (310)	
263	4-251-821-03	BRACKET (TOP)	
264	4-251-922-01	PULLEY B (310), CHUCKING	
265	4-251-824-01	LIFTER	
266	4-251-837-01	PULLEY A (310), CHUCKING	
267	4-218-253-52	SCREW (M2.6), +BTTP	
268	4-674-137-11	SCREW (PTP 2X5)	
#8	7-685-102-19	SCREW +P 2X4 TYPE2 NON-SLIT	

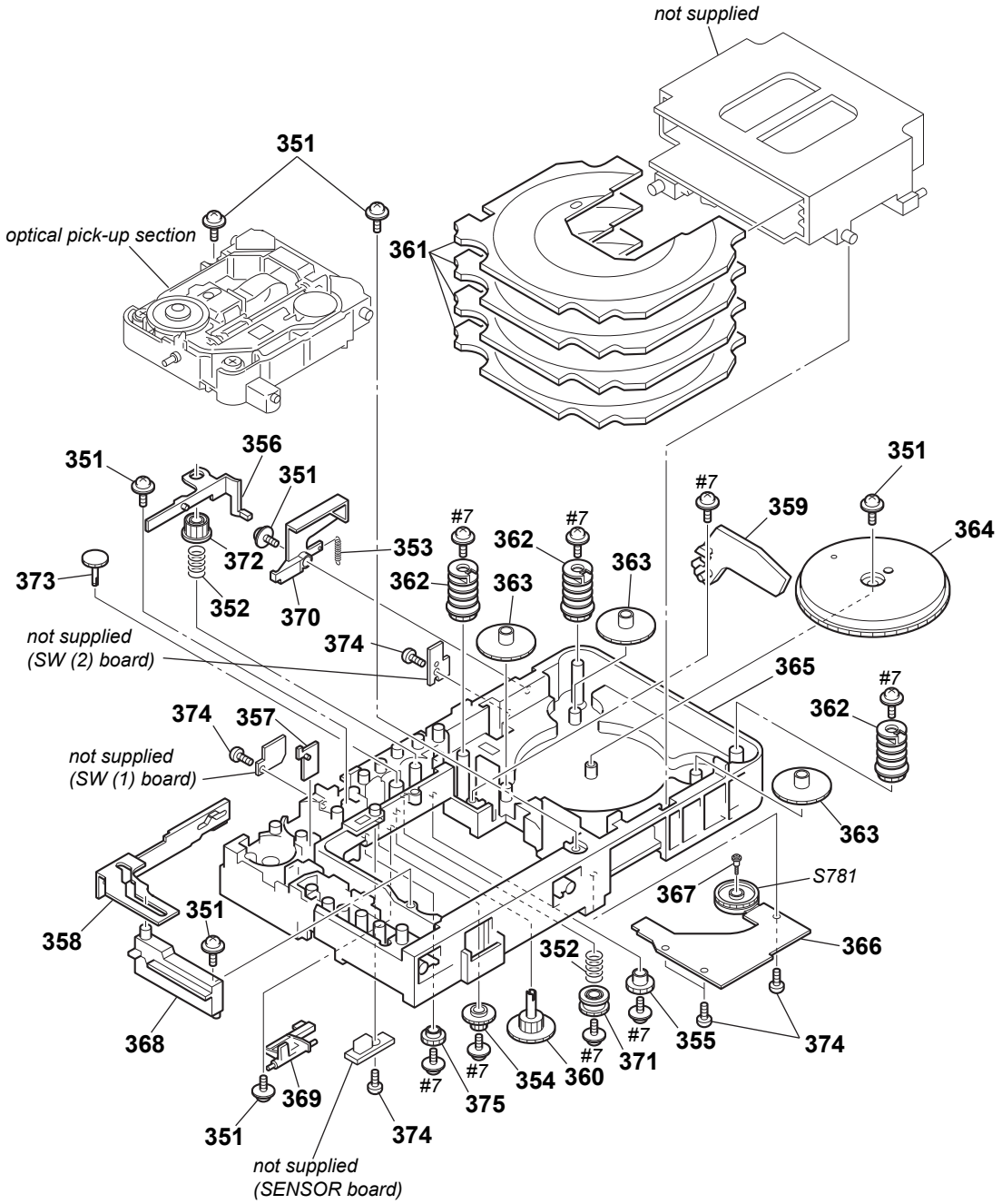
7-6. DVD MECHANISM DECK SECTION-2 (CDM81C-DVBU101)



Ref. No.	Part No.	Description	Remark
301	4-251-868-01	BELT (SUB TRAY)	
302	4-251-869-01	BELT (MAIN TRAY)	
303	4-251-850-01	GEAR (MAIN TRAY 1)	
304	4-251-873-01	SPRING (MODE), COMPRESSION	
305	4-239-618-01	SCREW (+PWH, 2X6), STEP TAPPING	
306	4-251-872-01	SPRING (LEVER), TORSION	
307	4-251-870-01	BELT (BU)	
308	4-251-853-01	PULLEY (BU)	
309	4-251-834-01	LEVER (MAIN TRAY)	
310	4-251-852-01	GEAR (MAIN TRAY 3)	

Ref. No.	Part No.	Description	Remark
311	4-251-856-01	GEAR (BU2)	
312	4-251-841-01	GEAR (SUB TRAY 1)	
313	4-251-854-01	GEAR (BU1)	
314	4-251-842-02	GEAR (SUB TRAY 2)	
315	4-251-851-01	GEAR (MAIN TRAY 2)	
316	4-218-253-52	SCREW (M2.6), +BTTP	
M761	A-4713-174-A	MOTOR (81) ASSY (LOADING)	
M762	A-4713-174-A	MOTOR (81) ASSY (STOCKER UP/DOWN)	
S771	1-478-552-11	ENCODER, ROTARY (MD)	
#7	7-685-902-21	TAPPING +PWH 2.6X8 TYPE2 N-S	

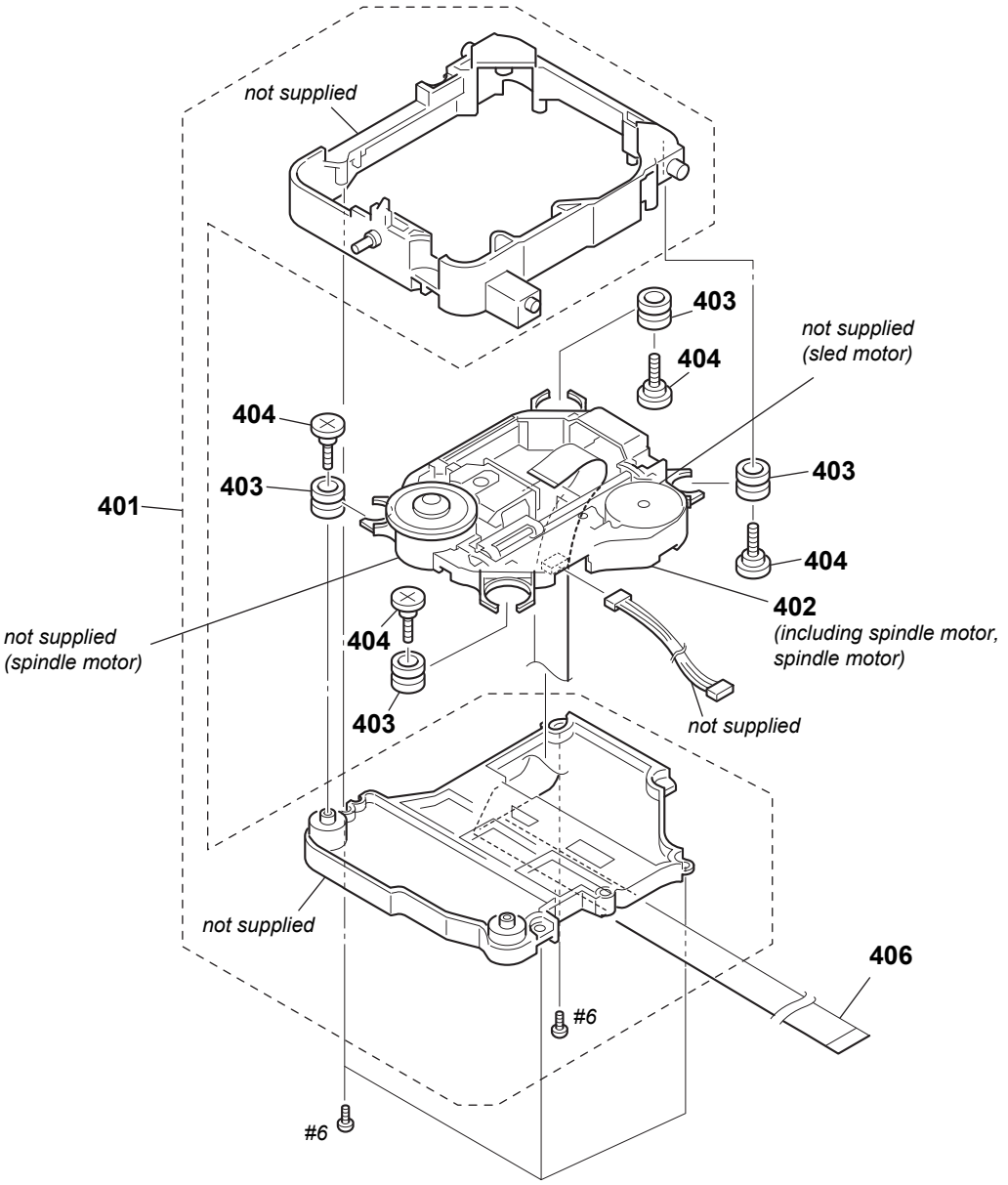
7-7. DVD MECHANISM DECK SECTION-3 (CDM81C-DVBU101)



Ref. No.	Part No.	Description	Remark
351	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
352	4-251-873-01	SPRING (MODE), COMPRESSION	
353	4-251-874-02	SPRING (SW), EXTENSION	
354	4-251-844-01	GEAR (SS2)	
355	4-251-835-01	GEAR (STOCKER 1)	
356	4-251-833-01	LEVER (SUB TRAY)	
357	4-251-843-01	LEVER (RELEASE)	
358	4-251-831-02	LEVER (MODE)	
359	4-251-862-01	SHUTTER (TRAY)	
360	4-251-845-01	GEAR (SS3)	
361	4-251-829-02	TRAY (SUB)	
362	4-251-827-01	CAM (STOCKER)	
363	4-251-836-01	GEAR (STOCKER 2)	
364	4-251-838-01	GEAR (STOCKER 3)	

Ref. No.	Part No.	Description	Remark
365	4-251-823-01	CHASSIS (CDM81)	
366	A-4750-232-A	RELAY BOARD, COMPLETE	
367	4-239-618-01	SCREW (+PWH, 2X6), STEP TAPPING	
368	4-251-825-01	CAM (BU)	
369	4-251-832-01	LEVER (STOCKER)	
370	4-251-861-01	LEVER (SW)	
371	4-251-839-01	GEAR (STOCKER 4)	
372	4-251-840-01	GEAR (SUB TRAY)	
373	4-251-847-01	GEAR (SS4)	
374	4-218-253-52	SCREW (M2.6), +BTTP	
375	4-251-841-01	GEAR (SUB TRAY 1)	
S781	1-478-551-11	ENCODER, ROTARY (STOCKER UP/DOWN)	
#7	7-685-902-21	TAPPING +PWH 2.6X8 TYPE2 N-S	

7-8. OPTICAL PICK-UP SECTION



Note 1: If flexible flat cable is replaced, install it after bending it in the same form as thet before replacement.

Note 2: Refer to the Servicing Notes “HOW TO IDENTIFY OPTICAL PICK-UP BLOCK” (page 7), if replacing the Ref. No. 402.

Ref. No.	Part No.	Description	Remark
401	X-4956-097-1	HOLDER (310) ASSY	
⚠ 402	8-820-291-02	OPTICAL PICK-UP BLOCK (KHM-310CAB/C2RP) (Including sled motor, spindle motor)	
⚠ 402	8-820-322-04	OPTICAL PICK-UP BLOCK (KHM-313CAB/C2RP) (Including sled motor, spindle motor)	
403	2-634-618-01	INSULATOR	
404	3-087-599-01	INSULATOR SCREW	
406	1-836-385-11	FLEXIBLE FLAT CABLE 24P	
#6	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	

ENCODER FL-JACK

SECTION 8
ELECTRICAL PARTS LIST

Note:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- CAPACITORS
  uF: µF
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . , uPA. . , µPA. . ,
  uPB. . : µPB. . , uPC. . , µPC. . ,
  uPD. . : µPD. .
- Abbreviation
  CND : Canadian model
  E3 : 240V AC area in E model
  EA : Saudi Arabia 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.

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

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

Ref. No.	Part No.	Description			Remark
		ENCODER BOARD (Included in RELAY board)			
		**********			
**********					
	A-1602-528-A	FL-JACK BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C5000	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C5002	1-124-584-00	ELECT	100uF	20%	6.3V
C5003	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5004	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C5005	1-163-037-11	CERAMIC CHIP	0.022uF	10%	50V
C5006	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C5007	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C5008	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C5009	1-119-772-91	ELECT	47uF	20%	35V
C5010	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5011	1-126-157-11	ELECT	10uF	20%	16V
C5012	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5020	1-126-157-11	ELECT	10uF	20%	16V
C5021	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5023	1-115-156-11	CERAMIC CHIP	1uF		10V
C5024	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C5025	1-124-584-00	ELECT	100uF	20%	10V
C5026	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C5027	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C5028	1-124-589-11	ELECT	47uF	20%	16V
C5029	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5030	1-124-584-00	ELECT	100uF	20%	10V
C5031	1-124-261-00	ELECT	10uF	20%	50V
C5032	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5035	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5036	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5037	1-124-261-00	ELECT	10uF	20%	50V
C5038	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5040	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C5041	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C5042	1-162-925-11	CERAMIC CHIP	68PF	5%	50V

Ref. No.	Part No.	Description			Remark
C5043	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C5044	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C5045	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5046	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C5050	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5058	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5059	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5061	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN5000	1-779-279-11	CONNECTOR, FFC (LIF (NON-ZIF)) 11P			
CN5001	1-779-554-21	CONNECTOR, FFC (LIF (NON-ZIF)) 17P			
		< DIODE >			
D5000	6-500-848-01	DIODE MC2840-T112-1			
D5001	6-500-848-01	DIODE MC2840-T112-1			
D5002	6-501-729-01	DIODE MAZ8051GLLS0			
D5005	6-500-525-01	LED SLI-325YCT31W (DMPORT BOOSTER)			
D5006	6-501-817-01	DIODE MA2J1110GLS0			
D5007	6-500-848-01	DIODE MC2840-T112-1			
D5008	8-719-060-48	DIODE RB751V-40TE-17			
D5009	6-500-848-01	DIODE MC2840-T112-1			
D5010	6-500-848-01	DIODE MC2840-T112-1			
		< FERRITE BEAD >			
FB5000	1-500-236-22	BEAD, FERRITE (CHIP) (1608)			
FB5001	1-500-236-22	BEAD, FERRITE (CHIP) (1608)			
FB5002	1-500-236-22	BEAD, FERRITE (CHIP) (1608)			
FB5003	1-500-236-22	BEAD, FERRITE (CHIP) (1608)			
FB5006	1-500-236-22	BEAD, FERRITE (CHIP) (1608)			
		< IC >			
IC5000	6-704-470-01	IC TK11233CMCL-G			
IC5001	6-713-497-01	IC HT16515			
IC5002	6-600-349-21	IC NJL23H400A			
IC5003	8-759-100-96	IC uPC4558G2			
IC5004	8-759-100-96	IC uPC4558G2			
		< JACK >			
J5000	1-822-262-11	JACK (AUDIO IN/A.CAL MIC)			

Ref. No.	Part No.	Description			Remark
J5001	1-822-262-11	JACK (PHONES)			
		< JUMPER RESISTOR >			
JR5005	1-216-296-11	SHORT CHIP	0		
JR5006	1-216-864-11	SHORT CHIP	0		
JR5014	1-216-864-11	SHORT CHIP	0		
JR5015	1-216-864-11	SHORT CHIP	0		
JR5019	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L5000	1-410-671-31	INDUCTOR	47uH		
L5001	1-410-671-31	INDUCTOR	47uH		
L5002	1-410-671-31	INDUCTOR	47uH		
		< FLUORESCENT INDICATOR TUBE >			
ND5000	1-519-988-21	INDICATOR TUBE, FLUORESCENT			
		< TRANSISTOR >			
Q5000	6-550-065-01	TRANSISTOR	CPH5504-TL-E		
Q5003	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q5004	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q5005	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q5006	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q5007	8-729-038-28	TRANSISTOR	RT1N441C-TP-1		
Q5008	8-729-038-28	TRANSISTOR	RT1N441C-TP-1		
Q5009	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q5010	8-729-038-11	TRANSISTOR	RT1P140C-TP-1		
Q5011	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q5012	8-729-038-28	TRANSISTOR	RT1N441C-TP-1		
		< RESISTOR >			
R5000	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R5001	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5003	1-216-813-11	METAL CHIP	220	5%	1/10W
R5004	1-216-813-11	METAL CHIP	220	5%	1/10W
R5005	1-216-813-11	METAL CHIP	220	5%	1/10W
R5006	1-216-839-11	METAL CHIP	33K	5%	1/10W
R5007	1-216-813-11	METAL CHIP	220	5%	1/10W
R5008	1-216-805-11	METAL CHIP	47	5%	1/10W
R5009	1-216-805-11	METAL CHIP	47	5%	1/10W
R5010	1-216-809-11	METAL CHIP	100	5%	1/10W
R5011	1-216-809-11	METAL CHIP	100	5%	1/10W
R5012	1-216-809-11	METAL CHIP	100	5%	1/10W
R5013	1-216-844-11	METAL CHIP	82K	5%	1/10W
R5016	1-216-810-11	METAL CHIP	120	5%	1/10W
R5017	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5018	1-216-805-11	METAL CHIP	47	5%	1/10W
R5019	1-216-835-11	METAL CHIP	15K	5%	1/10W
R5020	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5021	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5022	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5023	1-216-834-11	METAL CHIP	12K	5%	1/10W
R5024	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5025	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5026	1-216-801-11	METAL CHIP	22	5%	1/10W
R5027	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5028	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5029	1-216-819-11	METAL CHIP	680	5%	1/10W
R5030	1-216-811-11	METAL CHIP	150	5%	1/10W
R5031	1-216-835-11	METAL CHIP	15K	5%	1/10W
R5032	1-216-809-11	METAL CHIP	100	5%	1/10W
R5033	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5034	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5035	1-216-864-11	SHORT CHIP	0		
R5036	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5037	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5038	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5039	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5041	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R5043	1-216-817-11	METAL CHIP	470	5%	1/10W
R5044	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5045	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5047	1-216-817-11	METAL CHIP	470	5%	1/10W
R5048	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5049	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5050	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5051	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5052	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5053	1-216-864-11	SHORT CHIP	0		
R5054	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5055	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5056	1-216-864-11	SHORT CHIP	0		
R5083	1-216-813-11	METAL CHIP	220	5%	1/10W
R5084	1-216-813-11	METAL CHIP	220	5%	1/10W
R5085	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5086	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5087	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5088	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5090	1-216-809-11	METAL CHIP	100	5%	1/10W (SUFFIX-12)
R5091	1-216-809-11	METAL CHIP	100	5%	1/10W (SUFFIX-12)
		< SWITCH >			
S5000	1-762-875-21	SWITCH, KEYBOARD (DMPORT BOOSTER)			
		< TRANSFORMER >			
T5000	1-443-645-11	TRANSFORMER, DC CONVERTER			
**********					
	A-1602-537-A	I/O BOARD, COMPLETE **********			
		< CAPACITOR >			
C4028	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4030	1-126-933-11	ELECT	100uF	20%	16V
C4031	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4033	1-126-933-11	ELECT	100uF	20%	16V
C4034	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C4036	1-126-916-11	ELECT	1000uF	20%	6.3V
C4037	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4039	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C4040	1-126-916-11	ELECT	1000uF	20%	6.3V
C4041	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C4042	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C4043	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C4044	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4045	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4046	1-126-925-91	ELECT	470uF	20%	10V
C4047	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Note: Refer to the Servicing Notes “FL-JACK AND P-SW BOARDS DISCRIMINATION” (page 5) for how to distinguish Suffix-11 and Suffix-12.

I/O

Ref. No.	Part No.	Description			Remark
C4048	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C4049	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C4050	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C4053	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C4054	1-104-662-91	ELECT	22uF	20%	25V
C4055	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C4056	1-126-964-11	ELECT	10uF	20%	50V
C4057	1-104-662-91	ELECT	22uF	20%	25V
C4059	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4070	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C4077	1-104-662-91	ELECT	22uF	20%	25V
C4078	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C4083	1-104-662-91	ELECT	22uF	20%	25V
C4087	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C4088	1-104-662-91	ELECT	22uF	20%	25V
C4089	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C4090	1-104-662-91	ELECT	22uF	20%	25V
C4093	1-126-933-11	ELECT	100uF	20%	16V
C4094	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4100	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C4101	1-126-947-11	ELECT	47uF	20%	35V
C4104	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4109	1-104-662-91	ELECT	22uF	20%	25V
C4110	1-104-662-91	ELECT	22uF	20%	25V
C4113	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4116	1-126-933-11	ELECT	100uF	20%	16V
C4123	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
		< CONNECTOR >			
CN4005	1-784-365-51	CONNECTOR, FFC/FPC 5P			
CN4009	1-779-277-11	CONNECTOR, FFC (LIF (NON-ZIF)) 9P			
CN4012	1-779-273-11	CONNECTOR, FFC (LIF (NON-ZIF)) 5P			
CN4014	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN4016	1-784-770-11	CONNECTOR, FFC 9P			
CN4017	1-820-116-41	CONNECTOR, FFC/FPC 17P			
		< DIODE >			
D4003	6-500-848-01	DIODE MC2840-T112-1			
D4004	6-501-728-01	DIODE MAZ8051G0LS0			
D4006	6-501-817-01	DIODE MA2J1110GLS0			
		< IC >			
IC4002	6-707-489-01	IC BH7868FS-E2			
IC4003	6-705-337-01	IC TK11150CSCL-G			
IC4004	8-759-385-76	IC MC14052 BDR2			
IC4007	8-759-385-76	IC MC14052 BDR2			
IC4009	6-713-032-01	IC KIA7809API-U/PF			
		< JACK >			
J4000	1-822-283-11	JACK, PIN 3P (COMPONENT VIDEO OUT)			
J4001	1-822-280-11	JACK, PIN 3P (TV/VIDEO AUDIO IN, VIDEO OUT)			
		< COIL >			
L4000	1-469-525-91	INDUCTOR	10uH		
		< TRANSISTOR >			
Q4007	8-729-027-52	TRANSISTOR	DTC124EKA-T146		
Q4008	8-729-027-52	TRANSISTOR	DTC124EKA-T146		
Q4011	8-729-027-52	TRANSISTOR	DTC124EKA-T146		
Q4012	8-729-027-52	TRANSISTOR	DTC124EKA-T146		

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R4032	1-218-285-11	METAL CHIP	75	5%	1/10W
R4034	1-218-285-11	METAL CHIP	75	5%	1/10W
R4035	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R4036	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R4037	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R4038	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R4039	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R4041	1-218-285-11	METAL CHIP	75	5%	1/10W
R4043	1-218-285-11	METAL CHIP	75	5%	1/10W
R4044	1-218-285-11	METAL CHIP	75	5%	1/10W
R4045	1-216-821-11	METAL CHIP	1K	5%	1/10W
R4048	1-216-845-11	METAL CHIP	100K	5%	1/10W
R4049	1-216-841-11	METAL CHIP	47K	5%	1/10W
R4050	1-216-841-11	METAL CHIP	47K	5%	1/10W
R4051	1-216-837-11	METAL CHIP	22K	5%	1/10W
R4052	1-216-845-11	METAL CHIP	100K	5%	1/10W
R4053	1-216-837-11	METAL CHIP	22K	5%	1/10W
R4054	1-216-841-11	METAL CHIP	47K	5%	1/10W
R4055	1-216-841-11	METAL CHIP	47K	5%	1/10W
⚠ R4056	1-215-865-51	METAL OXIDE	220	5%	1W F
R4058	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4061	1-216-821-11	METAL CHIP	1K	5%	1/10W
R4070	1-216-821-11	METAL CHIP	1K	5%	1/10W
R4072	1-216-864-11	SHORT CHIP	0		
R4073	1-216-809-11	METAL CHIP	100	5%	1/10W
R4074	1-216-864-11	SHORT CHIP	0		
R4075	1-216-809-11	METAL CHIP	100	5%	1/10W
R4076	1-216-809-11	METAL CHIP	100	5%	1/10W
R4077	1-216-864-11	SHORT CHIP	0		
R4082	1-216-864-11	SHORT CHIP	0		
R4085	1-216-841-11	METAL CHIP	47K	5%	1/10W
R4086	1-216-841-11	METAL CHIP	47K	5%	1/10W
R4089	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R4093	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R4094	1-216-841-11	METAL CHIP	47K	5%	1/10W
R4095	1-216-841-11	METAL CHIP	47K	5%	1/10W
R4103	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R4104	1-216-841-11	METAL CHIP	47K	5%	1/10W
R4105	1-216-841-11	METAL CHIP	47K	5%	1/10W
R4108	1-216-864-11	SHORT CHIP	0		
R4110	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R4111	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R4114	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R4115	1-216-841-11	METAL CHIP	47K	5%	1/10W
R4116	1-216-841-11	METAL CHIP	47K	5%	1/10W
R4124	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4128	1-216-821-11	METAL CHIP	1K	5%	1/10W
R4131	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4133	1-216-821-11	METAL CHIP	1K	5%	1/10W
R4146	1-216-845-11	METAL CHIP	100K	5%	1/10W
R4147	1-216-845-11	METAL CHIP	100K	5%	1/10W
R4148	1-216-864-11	SHORT CHIP	0		
R4149	1-216-845-11	METAL CHIP	100K	5%	1/10W
R4150	1-216-845-11	METAL CHIP	100K	5%	1/10W
R4156	1-216-864-11	SHORT CHIP	0		
R4157	1-216-864-11	SHORT CHIP	0		
R4164	1-216-833-11	METAL CHIP	10K	5%	1/10W

I/O KEY MAIN

Ref. No.	Part No.	Description			Remark
R4166	1-216-864-11	SHORT CHIP	0		
**********					
	A-1602-530-A	KEY BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C5100	1-126-947-11	ELECT	47uF	20%	35V
C5101	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5105	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5111	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5112	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
CN5101	1-779-548-21	CONNECTOR, FFC (LIF (NON-ZIF)) 11P			
		< LED >			
D5003	8-719-060-26	LED	SLR-325YCT31 (MOVIE)		
D5004	8-719-060-26	LED	SLR-325YCT31 (MUSIC)		
D5100	8-719-056-13	LED	SML79423C-TP15 (DISC 5)		
D5101	8-719-056-13	LED	SML79423C-TP15 (DISC 4)		
D5102	8-719-056-13	LED	SML79423C-TP15 (DISC 3)		
D5103	8-719-056-13	LED	SML79423C-TP15 (DISC 2)		
D5104	8-719-056-13	LED	SML79423C-TP15 (DISC 1)		
		< IC >			
IC5100	6-704-046-01	IC	BU2099FV		
		< JUMPER RESISTOR >			
JW5108	1-216-864-11	SHORT CHIP	0		
JW5109	1-216-864-11	SHORT CHIP	0		
JW5110	1-216-864-11	SHORT CHIP	0		
JW5111	1-216-864-11	SHORT CHIP	0		
JW5113	1-216-864-11	SHORT CHIP	0		
JW5114	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L5100	1-410-671-31	INDUCTOR	47uH		
		< TRANSISTOR >			
Q5001	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q5002	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q5100	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q5101	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q5102	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q5103	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q5104	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q5105	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q5106	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q5107	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q5108	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q5109	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
		< RESISTOR >			
R5014	1-216-809-11	METAL CHIP	100	5%	1/10W
R5015	1-216-809-11	METAL CHIP	100	5%	1/10W
R5100	1-216-809-11	METAL CHIP	100	5%	1/10W
R5101	1-216-809-11	METAL CHIP	100	5%	1/10W
R5102	1-216-809-11	METAL CHIP	100	5%	1/10W
R5103	1-216-809-11	METAL CHIP	100	5%	1/10W
R5104	1-216-809-11	METAL CHIP	100	5%	1/10W
R5105	1-216-809-11	METAL CHIP	100	5%	1/10W
R5106	1-216-809-11	METAL CHIP	100	5%	1/10W
R5107	1-216-809-11	METAL CHIP	100	5%	1/10W
R5108	1-216-809-11	METAL CHIP	100	5%	1/10W
R5109	1-216-809-11	METAL CHIP	100	5%	1/10W
R5110	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5111	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5112	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5113	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5114	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5116	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5117	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5118	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5119	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5120	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5121	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5122	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5123	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5124	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5125	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5126	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5127	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5128	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5130	1-216-809-11	METAL CHIP	100	5%	1/10W
R5131	1-216-809-11	METAL CHIP	100	5%	1/10W
		< SWITCH/ROTARY ENCODER >			
S5100	1-762-875-21	SWITCH, KEYBOARD (⏏)			
S5101	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)			
S5103	1-762-875-21	SWITCH, KEYBOARD (■)			
S5104	1-762-875-21	SWITCH, KEYBOARD (DISC 5)			
S5105	1-762-875-21	SWITCH, KEYBOARD (DISC 4)			
S5106	1-762-875-21	SWITCH, KEYBOARD (DISC 3)			
S5107	1-762-875-21	SWITCH, KEYBOARD (DISC 2)			
S5108	1-762-875-21	SWITCH, KEYBOARD (DISC 1)			
S5109	1-762-875-21	SWITCH, KEYBOARD (►)			
S5110	1-762-875-21	SWITCH, KEYBOARD (I◄◄)			
S5112	1-762-875-21	SWITCH, KEYBOARD (►►I)			
S5113	1-480-136-11	ENCODER, ROTARY (12 TYPE) (VOLUME)			
**********					
	A-1602-539-A	MAIN BOARD COMPLETE (for SERVICE) (HDX285: E3, EA)			
	A-1602-547-A	MAIN BOARD COMPLETE (for SERVICE) (HDX285: US)			
	A-1602-568-A	MAIN BOARD COMPLETE (for SERVICE) (HDX589W)			
	A-1602-575-A	MAIN BOARD COMPLETE (for SERVICE) (HDX287WC/HDX587WC)			
	A-1602-588-A	MAIN BOARD COMPLETE (for SERVICE) (HDX685)			
	A-1602-597-A	MAIN BOARD COMPLETE (for SERVICE) (HDX686W)			
	A-1703-692-A	MAIN BOARD COMPLETE (for SERVICE) (HDX585)			
		**********			
		< CAPACITOR >			
C303	1-100-742-91	CERAMIC CHIP	2.2uF	20%	10V
C304	1-126-923-91	ELECT	220uF	20%	10V

MAIN

Ref. No.	Part No.	Description			Remark
C305	1-100-742-91	CERAMIC CHIP	2.2uF	20%	10V
C308	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C309	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C310	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C311	1-126-964-11	ELECT	10uF	20%	50V
C313	1-126-964-11	ELECT	10uF	20%	50V
C314	1-126-964-11	ELECT	10uF	20%	50V
C315	1-126-923-91	ELECT	220uF	20%	10V
C316	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C317	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C318	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C319	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C320	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C321	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C323	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C325	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C326	1-162-912-11	CERAMIC CHIP	7PF	0.5PF	50V
C327	1-162-912-11	CERAMIC CHIP	7PF	0.5PF	50V
C329	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C333	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C334	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C451	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C452	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C453	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C455	1-126-965-91	ELECT	22uF	20%	50V
C456	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C457	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C461	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C462	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C463	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C464	1-126-947-11	ELECT	47uF	20%	35V
C465	1-104-658-91	ELECT	100uF	20%	10V
C466	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C467	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C468	1-126-933-11	ELECT	100uF	20%	16V
C471	1-104-658-91	ELECT	100uF	20%	10V
C476	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C501	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C504	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C505	1-126-933-11	ELECT	100uF	20%	16V
C507	1-126-933-11	ELECT	100uF	20%	16V
C508	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C509	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C510	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C511	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C512	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C514	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C515	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C516	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C517	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C518	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C520	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C521	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C522	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C523	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C524	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C525	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C526	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C527	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C528	1-126-916-11	ELECT	1000uF	20%	6.3V
C529	1-104-658-91	ELECT	100uF	20%	10V
C530	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C531	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C532	1-126-933-11	ELECT	100uF	20%	16V
C536	1-126-916-11	ELECT	1000uF	20%	6.3V
C537	1-104-658-91	ELECT	100uF	20%	10V
C538	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C539	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C540	1-126-933-11	ELECT	100uF	20%	16V
C544	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C550	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C551	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C552	1-126-933-11	ELECT	100uF	20%	16V
C553	1-126-935-11	ELECT	470uF	20%	16V
C554	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1102	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1105	1-126-947-11	ELECT	47uF	20%	35V
C1106	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1108	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1109	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1110	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1111	1-104-658-91	ELECT	100uF	20%	10V
C1112	1-126-947-11	ELECT	47uF	20%	35V
C1113	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1115	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1117	1-126-947-11	ELECT	47uF	20%	35V
C1118	1-126-947-11	ELECT	47uF	20%	35V
C1119	1-126-947-11	ELECT	47uF	20%	35V
C1120	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1121	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1122	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1123	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1124	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1127	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1129	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C1130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1135	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C1136	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1137	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1138	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1139	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1140	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1144	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1145	1-126-964-11	ELECT	10uF	20%	50V
C1146	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1147	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C1148	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C1149	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1151	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1152	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C1153	1-162-916-11	CERAMIC CHIP	12PF	5%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C1154	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1155	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1158	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1159	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1161	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1162	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1163	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1164	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1165	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1169	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1170	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C1171	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1172	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1174	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1175	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1176	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1177	1-126-923-91	ELECT	220uF	20%	10V
C1179	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1180	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1181	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1182	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1183	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C1184	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1186	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1187	1-126-947-11	ELECT	47uF	20%	35V
C1190	1-104-658-91	ELECT	100uF	20%	10V
C1191	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1192	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1193	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1195	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1197	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1198	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1199	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1203	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1205	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C1206	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C1208	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1209	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C1210	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1211	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C1212	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1213	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1214	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1215	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1217	1-126-947-11	ELECT	47uF	20%	35V
C1218	1-126-964-11	ELECT	10uF	20%	50V
C1219	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1220	1-126-964-11	ELECT	10uF	20%	50V
C1221	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1222	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1233	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1725	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1727	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1729	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1730	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1731	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1732	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1733	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1734	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C2100	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C2108	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C2109	1-104-658-91	ELECT	100uF	20%	10V
C2110	1-104-658-91	ELECT	100uF	20%	10V
C2114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2115	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C2116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2117	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C2118	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2119	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C2130	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C2502	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V
C2503	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C3000	1-126-382-11	ELECT	100uF	20%	16V
C3001	1-126-947-11	ELECT	47uF	20%	35V
C3002	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3003	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3005	1-126-795-11	ELECT	10uF	20%	50V
C3008	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3011	1-165-726-31	ELECT	56uF	20%	16V
C3012	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3013	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3014	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3015	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3016	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3017	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3018	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3019	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3020	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3021	1-126-947-11	ELECT	47uF	20%	35V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3022	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3023	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3024	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3025	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3026	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3027	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3028	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3029	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3030	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3031	1-165-726-31	ELECT	56uF	20%	16V
C3032	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

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Ref. No.	Part No.	Description			Remark
C3033	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3034	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3035	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3036	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3037	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3038	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3039	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3040	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3051	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3052	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C3053	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3054	1-104-658-91	ELECT	100uF	20%	10V
C3055	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C3056	1-126-923-91	ELECT	220uF	20%	10V
C3057	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3058	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C3059	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3060	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C3071	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3081	1-126-923-91	ELECT	220uF	20%	10V
C3082	1-126-923-91	ELECT	220uF	20%	10V
C3083	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3084	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3085	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3086	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3087	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3088	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3090	1-104-658-91	ELECT	100uF	20%	10V
C3091	1-126-934-11	ELECT	220uF	20%	16V
C3092	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3093	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3103	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C3104	1-100-966-91	CERAMIC CHIP	10uF	20%	10V
C3105	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C3106	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3107	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3108	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3109	1-112-246-11	ELECT	100uF	20%	35V
C3112	1-112-246-11	ELECT	100uF	20%	35V
C3113	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3114	1-114-885-51	FILM	1uF	5%	50V
C3115	1-114-885-51	FILM	1uF	5%	50V
C3116	1-112-831-31	ELECT	2200uF	20%	35V
C3117	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3122	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3123	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3124	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C3125	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C3126	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3127	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3128	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C3129	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C3153	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C3154	1-100-966-91	CERAMIC CHIP	10uF	20%	10V
C3155	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C3156	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3157	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3158	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3159	1-112-246-11	ELECT	100uF	20%	35V
C3162	1-112-246-11	ELECT	100uF	20%	35V
C3163	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3164	1-114-885-51	FILM	1uF	5%	50V
C3165	1-114-885-51	FILM	1uF	5%	50V
C3166	1-112-831-31	ELECT	2200uF	20%	35V
C3167	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3172	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3173	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3200	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3203	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3204	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3205	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3206	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3207	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3208	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3209	1-112-246-11	ELECT	100uF	20%	35V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3212	1-112-246-11	ELECT	100uF	20%	35V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3213	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3214	1-114-885-51	FILM	1uF	5%	50V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3215	1-114-885-51	FILM	1uF	5%	50V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3216	1-112-831-31	ELECT	2200uF	20%	35V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3217	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3250	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3253	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3254	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3255	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)

MAIN

Ref. No.	Part No.	Description	Remark
C3256	1-115-185-11	CERAMIC CHIP 0.033uF 10% 50V	(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3257	1-115-185-11	CERAMIC CHIP 0.033uF 10% 50V	(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3258	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3259	1-112-246-11	ELECT 100uF 20% 35V	(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3262	1-112-246-11	ELECT 100uF 20% 35V	(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3263	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3264	1-114-885-51	FILM 1uF 5% 50V	(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3265	1-114-885-51	FILM 1uF 5% 50V	(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3266	1-112-831-31	ELECT 2200uF 20% 35V	(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3267	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3303	1-100-352-91	CERAMIC CHIP 1uF 20% 16V	
C3304	1-100-966-91	CERAMIC CHIP 10uF 20% 10V	
C3305	1-100-352-91	CERAMIC CHIP 1uF 20% 16V	
C3306	1-115-185-11	CERAMIC CHIP 0.033uF 10% 50V	
C3307	1-115-185-11	CERAMIC CHIP 0.033uF 10% 50V	
C3308	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C3309	1-112-246-11	ELECT 100uF 20% 35V	
C3312	1-112-246-11	ELECT 100uF 20% 35V	
C3313	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C3314	1-114-885-51	FILM 1uF 5% 50V	
C3315	1-114-885-51	FILM 1uF 5% 50V	
C3316	1-112-831-31	ELECT 2200uF 20% 35V	
C3317	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C3322	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3323	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3400	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C3403	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C3404	1-107-725-11	CERAMIC CHIP 0.1uF 10% 16V	
C3405	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C3406	1-115-185-11	CERAMIC CHIP 0.033uF 10% 50V	
C3407	1-115-185-11	CERAMIC CHIP 0.033uF 10% 50V	
C3408	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C3409	1-112-246-11	ELECT 100uF 20% 35V	
C3412	1-112-246-11	ELECT 100uF 20% 35V	
C3413	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C3414	1-114-885-51	FILM 1uF 5% 50V	
C3415	1-114-885-51	FILM 1uF 5% 50V	
C3416	1-112-831-31	ELECT 2200uF 20% 35V	
C3417	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C3422	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3423	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
C3500	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C3503	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C3504	1-107-725-11	CERAMIC CHIP 0.1uF 10% 16V	
C3505	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C3506	1-115-185-11	CERAMIC CHIP 0.033uF 10% 50V	
C3507	1-115-185-11	CERAMIC CHIP 0.033uF 10% 50V	
C3508	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C3509	1-112-246-11	ELECT 100uF 20% 35V	
C3512	1-112-246-11	ELECT 100uF 20% 35V	
C3513	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C3514	1-114-885-51	FILM 1uF 5% 50V	
C3515	1-114-885-51	FILM 1uF 5% 50V	
C3516	1-112-831-31	ELECT 2200uF 20% 35V	
C3517	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C3551	1-115-871-11	ELECT 1uF 20% 50V	
C3552	1-126-964-11	ELECT 10uF 20% 50V	
C3553	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C3556	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C3561	1-126-513-11	ELECT 47uF 20% 6.3V	
C3901	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C3902	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C3903	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C3904	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C3911	1-163-021-91	CERAMIC CHIP 0.01uF 10% 50V	
C3912	1-163-021-91	CERAMIC CHIP 0.01uF 10% 50V	
C3913	1-163-021-91	CERAMIC CHIP 0.01uF 10% 50V	
C3914	1-163-021-91	CERAMIC CHIP 0.01uF 10% 50V	
C3920	1-114-419-21	CERAMIC CHIP 10uF 10% 16V	
C3921	1-114-419-21	CERAMIC CHIP 10uF 10% 16V	
C3924	1-114-419-21	CERAMIC CHIP 10uF 10% 16V	
C9972	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
		< CONNECTOR >	
CN303	1-779-273-11	CONNECTOR, FFC (LIF (NON-ZIF)) 5P	
CN306	1-779-281-11	CONNECTOR, FFC (LIF (NON-ZIF)) 13P	
CN451	1-817-615-21	CONNECTOR, SQUARE TYPE (RECE) (DMPORT)	
CN472	1-820-116-41	CONNECTOR, FFC/FPC 17P	
CN502	1-820-112-41	CONNECTOR, FFC/FPC 9P	
CN505	1-784-038-21	CONNECTOR, BOARD TO BOARD 9P	
CN506	1-820-116-41	CONNECTOR, FFC/FPC 17P	
CN1101	1-815-763-32	CONNECTOR, FFC/FPC 24P	
CN1105	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P	
CN1201	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P	
CN1701	1-821-755-11	HDMI CONNECTOR (HDMI OUT)	
CN3000	1-564-704-41	PIN, CONNECTOR (SMALL TYPE) 2P	
CN3001	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
		< DIODE >	
D501	6-501-817-01	DIODE MA2J1110GLS0	
D502	6-501-817-01	DIODE MA2J1110GLS0	
D503	6-501-817-01	DIODE MA2J1110GLS0	
D3071	6-501-817-01	DIODE MA2J1110GLS0	
D3072	6-501-817-01	DIODE MA2J1110GLS0	
D3073	6-501-817-01	DIODE MA2J1110GLS0	

MAIN

Ref. No.	Part No.	Description	Remark
D3551	6-500-848-01	DIODE MC2840-T112-1	
D3552	6-501-774-01	DIODE MAZ8150G0LS0	
D4111	6-501-696-01	DIODE RSA39LTE25	
D4112	6-501-696-01	DIODE RSA39LTE25	
D4151	6-501-696-01	DIODE RSA39LTE25	
D4152	6-501-696-01	DIODE RSA39LTE25	
D4201	6-501-696-01	DIODE RSA39LTE25 (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)	
D4202	6-501-696-01	DIODE RSA39LTE25 (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)	
D4251	6-501-696-01	DIODE RSA39LTE25 (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)	
D4252	6-501-696-01	DIODE RSA39LTE25 (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)	
D4301	6-501-696-01	DIODE RSA39LTE25	
D4302	6-501-696-01	DIODE RSA39LTE25	
D4401	6-501-696-01	DIODE RSA39LTE25	
D4402	6-501-696-01	DIODE RSA39LTE25	
D4501	6-501-696-01	DIODE RSA39LTE25	
D4502	6-501-696-01	DIODE RSA39LTE25	
D9712	6-501-817-01	DIODE MA2J1110GLS0	
		< FERRITE BEAD >	
FB1106	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB1107	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB1108	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB1109	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB1111	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB1112	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB1113	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB1115	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB1116	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB1117	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB1118	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB2101	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB2103	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB2120	1-469-118-21	FERRITE, EMI (SMD) (1608)	
FB2121	1-469-118-21	FERRITE, EMI (SMD) (1608)	
FB2122	1-469-118-21	FERRITE, EMI (SMD) (1608)	
FB2124	1-469-118-21	FERRITE, EMI (SMD) (1608)	
FB2125	1-469-118-21	FERRITE, EMI (SMD) (1608)	
FB3107	1-469-118-21	FERRITE, EMI (SMD) (1608)	
FB3108	1-469-118-21	FERRITE, EMI (SMD) (1608)	
FB3109	1-469-118-21	FERRITE, EMI (SMD) (1608)	
		< IC >	
IC303	6-710-554-01	IC PCM1808PWR	
IC304	8-759-825-15	IC LC89056W-E	
IC307	8-759-680-48	IC TC7WH157FK (TE85R)	
IC451	8-759-710-97	IC NJM4565M-D	
IC452	6-712-613-01	IC SI-3010KM-TLS	
IC471	6-707-853-01	IC TC74LCX541FT (EKJ)	
IC501	6-706-492-01	IC TC7SHU04FU (T5RSOJF)	
IC502	6-600-466-01	IC TORX147L (SONY) (TV DIGITAL IN OPTICAL)	
IC503	A-1602-156-A	IC R5F3640DDFAR (for SERVICE)	
IC504	6-705-338-01	IC TK11250CMCL-G	
IC505	6-713-500-01	IC BR24S16F-WE2	
IC506	6-705-203-01	IC S-80935CNMC-G85T2G	
IC507	6-712-613-01	IC SI-3010KM-TLS	
IC510	6-712-613-01	IC SI-3010KM-TLS	

Ref. No.	Part No.	Description	Remark
IC1101	6-713-716-01	IC CXD9917R-A (E3, EA)	
IC1101	6-713-717-01	IC CXD9927R-A (US, CND)	
IC1102	6-808-686-01	IC MX29LV320DBTI-70-CHI-0902UC (US, CND)	
IC1102	6-808-687-01	IC MX29LV320DBTI-70-CHI-0902CE (E3, EA)	
IC1103	(Not supplied)	IC BR24S64F-WE2	
IC1104	6-713-754-01	IC W9864G6IH-6J-ER10	
IC1105	6-702-302-01	IC TK11133CSCL-G	
IC1107	6-702-302-01	IC TK11133CSCL-G	
IC1110	6-707-739-01	IC MM1661JTRE	
IC1201	6-704-524-01	IC FAN8036L	
IC1705	8-759-592-47	IC TC7SZ08FU (TE85R)	
IC1707	6-705-337-01	IC TK11150CSCL-G	
IC1708	6-702-302-01	IC TK11133CSCL-G	
IC3001	8-759-710-97	IC NJM4565M-D	
IC3010	6-705-979-01	IC CXD9788AR	
IC3020	6-705-979-01	IC CXD9788AR (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)	
IC3030	6-705-979-01	IC CXD9788AR	
IC3050	6-702-300-01	IC TK11118CSCL-G	
IC3051	6-709-888-01	IC TC7WHU04FK (T5RSOYF	
IC3100	6-712-370-01	IC CXD9936TN	
IC3150	6-712-370-01	IC CXD9936TN	
IC3200	6-712-370-01	IC CXD9936TN (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)	
IC3250	6-712-370-01	IC CXD9936TN (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)	
IC3300	6-712-370-01	IC CXD9936TN	
IC3400	6-712-370-01	IC CXD9936TN	
IC3500	6-712-370-01	IC CXD9936TN	
		< JACK >	
J501	1-822-282-11	JACK, PIN 1P (TV DIGITAL IN COAXIAL)	
		< COIL >	
L301	1-469-525-91	INDUCTOR 10uH	
L302	1-469-525-91	INDUCTOR 10uH	
L303	1-469-525-91	INDUCTOR 10uH	
L451	1-469-525-91	INDUCTOR 10uH	
L471	1-469-527-91	INDUCTOR 47uH	
L501	1-469-525-91	INDUCTOR 10uH	
L502	1-469-525-91	INDUCTOR 10uH	
L1701	1-457-374-21	COMMOM MODE CHOKE COIL	
L1702	1-457-374-21	COMMOM MODE CHOKE COIL	
L1703	1-457-374-21	COMMOM MODE CHOKE COIL	
L1704	1-457-374-21	COMMOM MODE CHOKE COIL	
L3000	1-469-527-91	INDUCTOR 47uH	
L3051	1-469-525-91	INDUCTOR 10uH	
L3052	1-469-525-91	INDUCTOR 10uH	
L3053	1-469-525-91	INDUCTOR 10uH	
L3054	1-412-939-11	INDUCTOR 1uH	
L3101	1-457-579-21	INDUCTOR 10uH	
L3102	1-457-579-21	INDUCTOR 10uH	
L3201	1-457-579-21	INDUCTOR 10uH (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)	
L3202	1-457-579-21	INDUCTOR 10uH (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)	
L3301	1-457-579-21	INDUCTOR 10uH	
L3401	1-457-579-21	INDUCTOR 10uH	
L3501	1-457-579-21	INDUCTOR 10uH	
L3901	1-457-078-11	AIR-CORE COIL	
L3902	1-457-077-11	AIR-CORE COIL	

Note: IC1103 cannot exchange with single. When this part is damaged, exchange the entire mounted board.

MAIN

Ref. No.	Part No.	Description			Remark
L3903	1-457-078-11	AIR-CORE COIL			
L3904	1-457-077-11	AIR-CORE COIL			
		< TRANSISTOR >			
Q501	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q502	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q503	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q1101	6-550-008-01	FET	UM6K1N-TN		
Q1102	6-550-653-01	TRANSISTOR	QST8TR		
Q1103	8-729-027-52	TRANSISTOR	DTC124EKA-T146		
Q1701	6-550-008-01	FET	UM6K1N-TN		
Q3000	8-729-111-29	TRANSISTOR	2SD1616A-K		
Q3001	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q3002	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q3081	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q3101	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q3102	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q3116	6-551-953-01	TRANSISTOR	RTAN430C-T112A-1		
Q3117	6-551-953-01	TRANSISTOR	RTAN430C-T112A-1		
Q3118	6-551-953-01	TRANSISTOR	RTAN430C-T112A-1		
Q3119	6-551-953-01	TRANSISTOR	RTAN430C-T112A-1		
Q3151	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q3152	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q3201	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF (HDX285/ HDX287WC/HDX585/HDX587WC/HDX685)		
Q3202	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF(HDX285/ HDX287WC/HDX585/HDX587WC/HDX685)		
Q3251	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q3252	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q3301	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q3302	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q3401	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF (HDX285/ HDX287WC/HDX585/HDX587WC/HDX685)		
Q3402	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF (HDX285/ HDX287WC/HDX585/HDX587WC/HDX685)		
Q3551	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q3552	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q3553	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q3554	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q3555	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q9724	6-551-699-01	TRANSISTOR	ISA1602AM1TP-1EF		
Q9726	8-729-620-13	TRANSISTOR	2SC4154TP-1EF		
Q9728	8-729-620-13	TRANSISTOR	2SC4154TP-1EF		
Q9729	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
		< RESISTOR >			
R301	1-216-809-11	METAL CHIP	100	5%	1/10W
R302	1-216-809-11	METAL CHIP	100	5%	1/10W
R303	1-216-809-11	METAL CHIP	100	5%	1/10W
R304	1-216-809-11	METAL CHIP	100	5%	1/10W
R305	1-216-809-11	METAL CHIP	100	5%	1/10W
R306	1-216-809-11	METAL CHIP	100	5%	1/10W
R307	1-216-809-11	METAL CHIP	100	5%	1/10W
R308	1-216-809-11	METAL CHIP	100	5%	1/10W
R309	1-216-809-11	METAL CHIP	100	5%	1/10W
R310	1-216-809-11	METAL CHIP	100	5%	1/10W
R316	1-216-801-11	METAL CHIP	22	5%	1/10W
R317	1-216-801-11	METAL CHIP	22	5%	1/10W
R318	1-216-801-11	METAL CHIP	22	5%	1/10W
R319	1-216-801-11	METAL CHIP	22	5%	1/10W

Ref. No.	Part No.	Description			Remark
R327	1-216-864-11	SHORT CHIP	0		
R328	1-216-864-11	SHORT CHIP	0		
R329	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R330	1-216-839-11	METAL CHIP	33K	5%	1/10W
R331	1-216-805-11	METAL CHIP	47	5%	1/10W
R332	1-216-805-11	METAL CHIP	47	5%	1/10W
R333	1-216-864-11	SHORT CHIP	0		
R334	1-216-809-11	METAL CHIP	100	5%	1/10W
R335	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R337	1-216-809-11	METAL CHIP	100	5%	1/10W
R338	1-216-809-11	METAL CHIP	100	5%	1/10W
R340	1-216-809-11	METAL CHIP	100	5%	1/10W
R347	1-216-864-11	SHORT CHIP	0		
R348	1-216-864-11	SHORT CHIP	0		
R349	1-216-864-11	SHORT CHIP	0		
R350	1-216-864-11	SHORT CHIP	0		
R351	1-216-864-11	SHORT CHIP	0		
R352	1-216-864-11	SHORT CHIP	0		
R353	1-216-864-11	SHORT CHIP	0		
R354	1-216-864-11	SHORT CHIP	0		
R355	1-216-864-11	SHORT CHIP	0		
R359	1-216-864-11	SHORT CHIP	0		
R360	1-216-864-11	SHORT CHIP	0		
R362	1-216-809-11	METAL CHIP	100	5%	1/10W
R363	1-216-833-11	METAL CHIP	10K	5%	1/10W
R364	1-216-809-11	METAL CHIP	100	5%	1/10W
R365	1-216-833-11	METAL CHIP	10K	5%	1/10W
R368	1-216-809-11	METAL CHIP	100	5%	1/10W
R369	1-216-809-11	METAL CHIP	100	5%	1/10W
R370	1-216-857-11	METAL CHIP	1M	5%	1/10W
R371	1-216-815-11	METAL CHIP	330	5%	1/10W
R372	1-216-809-11	METAL CHIP	100	5%	1/10W
R373	1-216-809-11	METAL CHIP	100	5%	1/10W
R374	1-216-821-11	METAL CHIP	1K	5%	1/10W
R375	1-216-864-11	SHORT CHIP	0		
R376	1-216-864-11	SHORT CHIP	0		
R377	1-216-864-11	SHORT CHIP	0		
R378	1-216-864-11	SHORT CHIP	0		
R379	1-216-864-11	SHORT CHIP	0		
R380	1-216-864-11	SHORT CHIP	0		
R387	1-216-864-11	SHORT CHIP	0		
R388	1-216-864-11	SHORT CHIP	0		
R389	1-216-864-11	SHORT CHIP	0		
R392	1-216-833-11	METAL CHIP	10K	5%	1/10W
R393	1-216-833-11	METAL CHIP	10K	5%	1/10W
R394	1-216-809-11	METAL CHIP	100	5%	1/10W
R395	1-216-809-11	METAL CHIP	100	5%	1/10W
R396	1-216-864-11	SHORT CHIP	0		
R397	1-216-864-11	SHORT CHIP	0		
R399	1-216-864-11	SHORT CHIP	0		
R400	1-216-864-11	SHORT CHIP	0		
R401	1-216-864-11	SHORT CHIP	0		
R402	1-216-864-11	SHORT CHIP	0		
R403	1-216-809-11	METAL CHIP	100	5%	1/10W
R409	1-216-809-11	METAL CHIP	100	5%	1/10W
R410	1-216-809-11	METAL CHIP	100	5%	1/10W
R412	1-216-809-11	METAL CHIP	100	5%	1/10W
R413	1-216-809-11	METAL CHIP	100	5%	1/10W
R414	1-216-864-11	SHORT CHIP	0		
R415	1-216-864-11	SHORT CHIP	0		

MAIN

Ref. No.	Part No.	Description			Remark
R416	1-216-864-11	SHORT CHIP	0		
R451	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R452	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R453	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R454	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R455	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R456	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R457	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R458	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R459	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R460	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R461	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R462	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R463	1-218-885-11	METAL CHIP	39K	0.5%	1/10W
R464	1-216-821-11	METAL CHIP	1K	5%	1/10W
R465	1-216-809-11	METAL CHIP	100	5%	1/10W
R466	1-216-809-11	METAL CHIP	100	5%	1/10W
R471	1-216-864-11	SHORT CHIP	0		
R472	1-216-801-11	METAL CHIP	22	5%	1/10W
R473	1-216-801-11	METAL CHIP	22	5%	1/10W
R474	1-216-801-11	METAL CHIP	22	5%	1/10W
R479	1-216-805-11	METAL CHIP	47	5%	1/10W
R480	1-216-805-11	METAL CHIP	47	5%	1/10W
R481	1-216-805-11	METAL CHIP	47	5%	1/10W
R482	1-216-805-11	METAL CHIP	47	5%	1/10W
R483	1-216-805-11	METAL CHIP	47	5%	1/10W
R486	1-216-803-11	METAL CHIP	33	5%	1/10W
R487	1-216-805-11	METAL CHIP	47	5%	1/10W
R488	1-216-864-11	SHORT CHIP	0		
R490	1-216-864-11	SHORT CHIP	0		
R491	1-216-864-11	SHORT CHIP	0		
R492	1-216-864-11	SHORT CHIP	0		
R499	1-216-864-11	SHORT CHIP	0		
R501	1-216-817-11	METAL CHIP	470	5%	1/10W
R502	1-218-285-11	METAL CHIP	75	5%	1/10W
R504	1-216-841-11	METAL CHIP	47K	5%	1/10W
R505	1-216-809-11	METAL CHIP	100	5%	1/10W
R506	1-216-809-11	METAL CHIP	100	5%	1/10W
R508	1-216-809-11	METAL CHIP	100	5%	1/10W
R510	1-216-809-11	METAL CHIP	100	5%	1/10W
R511	1-216-809-11	METAL CHIP	100	5%	1/10W
R512	1-216-809-11	METAL CHIP	100	5%	1/10W
R513	1-216-809-11	METAL CHIP	100	5%	1/10W
R514	1-216-809-11	METAL CHIP	100	5%	1/10W
R515	1-216-809-11	METAL CHIP	100	5%	1/10W
R516	1-216-809-11	METAL CHIP	100	5%	1/10W
R524	1-216-809-11	METAL CHIP	100	5%	1/10W
R525	1-216-809-11	METAL CHIP	100	5%	1/10W
R526	1-216-809-11	METAL CHIP	100	5%	1/10W
R527	1-216-809-11	METAL CHIP	100	5%	1/10W
R528	1-216-809-11	METAL CHIP	100	5%	1/10W
R531	1-216-833-11	METAL CHIP	10K	5%	1/10W (E3, EA)
R531	1-216-841-11	METAL CHIP	47K	5%	1/10W (US, CND)
R532	1-216-837-11	METAL CHIP	22K	5%	1/10W (US, CND)
R532	1-216-841-11	METAL CHIP	47K	5%	1/10W (E3, EA)
R533	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R534	1-216-821-11	METAL CHIP	1K	5%	1/10W
R535	1-216-821-11	METAL CHIP	1K	5%	1/10W (HDX285)
R535	1-216-837-11	METAL CHIP	22K	5%	1/10W (HDX585)
R535	1-216-839-11	METAL CHIP	33K	5%	1/10W (HDX287WC/HDX587WC)
R535	1-216-841-11	METAL CHIP	47K	5%	1/10W (HDX589W/HDX685/HDX686W)
R536	1-216-833-11	METAL CHIP	10K	5%	1/10W (HDX686W)
R536	1-216-835-11	METAL CHIP	15K	5%	1/10W (HDX685)
R536	1-216-841-11	METAL CHIP	47K	5%	1/10W (HDX287WC/HDX585/HDX587WC/HDX589W)
R537	1-216-857-11	METAL CHIP	1M	5%	1/10W
R539	1-216-833-11	METAL CHIP	10K	5%	1/10W
R540	1-216-821-11	METAL CHIP	1K	5%	1/10W
R541	1-216-833-11	METAL CHIP	10K	5%	1/10W
R542	1-216-833-11	METAL CHIP	10K	5%	1/10W
R543	1-216-821-11	METAL CHIP	1K	5%	1/10W
R544	1-216-821-11	METAL CHIP	1K	5%	1/10W
R545	1-216-833-11	METAL CHIP	10K	5%	1/10W
R548	1-216-833-11	METAL CHIP	10K	5%	1/10W
R549	1-216-833-11	METAL CHIP	10K	5%	1/10W
R550	1-216-833-11	METAL CHIP	10K	5%	1/10W
R552	1-216-809-11	METAL CHIP	100	5%	1/10W
R553	1-216-809-11	METAL CHIP	100	5%	1/10W
R554	1-216-821-11	METAL CHIP	1K	5%	1/10W
R555	1-216-809-11	METAL CHIP	100	5%	1/10W
R557	1-216-833-11	METAL CHIP	10K	5%	1/10W
R560	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R561	1-216-821-11	METAL CHIP	1K	5%	1/10W
R563	1-216-833-11	METAL CHIP	10K	5%	1/10W
R564	1-216-864-11	SHORT CHIP	0		
R568	1-216-833-11	METAL CHIP	10K	5%	1/10W
R569	1-216-821-11	METAL CHIP	1K	5%	1/10W
R570	1-216-809-11	METAL CHIP	100	5%	1/10W
R571	1-216-809-11	METAL CHIP	100	5%	1/10W
R572	1-216-833-11	METAL CHIP	10K	5%	1/10W
R573	1-216-864-11	SHORT CHIP	0		
R576	1-216-809-11	METAL CHIP	100	5%	1/10W
R577	1-216-833-11	METAL CHIP	10K	5%	1/10W
R579	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R581	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R582	1-216-841-11	METAL CHIP	47K	5%	1/10W
R583	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R584	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R585	1-216-833-11	METAL CHIP	10K	5%	1/10W
R590	1-216-841-11	METAL CHIP	47K	5%	1/10W
R591	1-216-833-11	METAL CHIP	10K	5%	1/10W
R592	1-216-833-11	METAL CHIP	10K	5%	1/10W
R594	1-216-864-11	SHORT CHIP	0		
R595	1-216-864-11	SHORT CHIP	0		
R596	1-216-845-11	METAL CHIP	100K	5%	1/10W
R597	1-216-841-11	METAL CHIP	47K	5%	1/10W
R598	1-216-841-11	METAL CHIP	47K	5%	1/10W
R599	1-216-833-11	METAL CHIP	10K	5%	1/10W
R603	1-216-809-11	METAL CHIP	100	5%	1/10W
R604	1-216-809-11	METAL CHIP	100	5%	1/10W
R605	1-216-809-11	METAL CHIP	100	5%	1/10W
R606	1-216-809-11	METAL CHIP	100	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R607	1-216-809-11	METAL CHIP	100	5%	1/10W
R609	1-216-833-11	METAL CHIP	10K	5%	1/10W
R610	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R611	1-218-885-11	METAL CHIP	39K	0.5%	1/10W
R613	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R614	1-216-809-11	METAL CHIP	100	5%	1/10W
R615	1-216-821-11	METAL CHIP	1K	5%	1/10W
R616	1-218-851-11	METAL CHIP	1.5K	0.5%	1/10W
R617	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R619	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R623	1-216-841-11	METAL CHIP	47K	5%	1/10W
R624	1-216-833-11	METAL CHIP	10K	5%	1/10W
R625	1-216-821-11	METAL CHIP	1K	5%	1/10W
R627	1-216-809-11	METAL CHIP	100	5%	1/10W
R628	1-216-821-11	METAL CHIP	1K	5%	1/10W
R629	1-216-809-11	METAL CHIP	100	5%	1/10W
R630	1-216-809-11	METAL CHIP	100	5%	1/10W
R632	1-216-833-11	METAL CHIP	10K	5%	1/10W
R633	1-216-833-11	METAL CHIP	10K	5%	1/10W
R634	1-216-833-11	METAL CHIP	10K	5%	1/10W
R635	1-216-833-11	METAL CHIP	10K	5%	1/10W
R636	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1101	1-216-809-11	METAL CHIP	100	5%	1/10W
R1103	1-218-864-11	METAL CHIP	5.1K	0.5%	1/10W
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1108	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1109	1-216-864-11	SHORT CHIP	0		
R1110	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1111	1-216-809-11	METAL CHIP	100	5%	1/10W
R1112	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R1113	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R1114	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1115	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R1116	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1117	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1118	1-216-801-11	METAL CHIP	22	5%	1/10W
R1120	1-216-801-11	METAL CHIP	22	5%	1/10W
R1121	1-216-801-11	METAL CHIP	22	5%	1/10W
R1123	1-216-864-11	SHORT CHIP	0		
R1124	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1125	1-216-805-11	METAL CHIP	47	5%	1/10W
R1132	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1133	1-216-864-11	SHORT CHIP	0		
R1135	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1136	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1140	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1141	1-216-855-11	METAL CHIP	680K	5%	1/10W
R1142	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1146	1-216-805-11	METAL CHIP	47	5%	1/10W
R1151	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1154	1-216-809-11	METAL CHIP	100	5%	1/10W
R1155	1-216-809-11	METAL CHIP	100	5%	1/10W
R1156	1-216-809-11	METAL CHIP	100	5%	1/10W
R1159	1-216-805-11	METAL CHIP	47	5%	1/10W
R1160	1-216-805-11	METAL CHIP	47	5%	1/10W
R1161	1-216-801-11	METAL CHIP	22	5%	1/10W
R1162	1-216-805-11	METAL CHIP	47	5%	1/10W
R1163	1-216-805-11	METAL CHIP	47	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1164	1-216-805-11	METAL CHIP	47	5%	1/10W
R1165	1-216-805-11	METAL CHIP	47	5%	1/10W
R1171	1-216-809-11	METAL CHIP	100	5%	1/10W
R1176	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1183	1-216-805-11	METAL CHIP	47	5%	1/10W
R1184	1-216-805-11	METAL CHIP	47	5%	1/10W
R1185	1-216-805-11	METAL CHIP	47	5%	1/10W
R1186	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1191	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1192	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1193	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1198	1-216-809-11	METAL CHIP	100	5%	1/10W
R1204	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R1205	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1206	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1207	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R1208	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1209	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1210	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1212	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1213	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1214	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1215	1-216-834-11	METAL CHIP	12K	5%	1/10W
R1216	1-216-834-11	METAL CHIP	12K	5%	1/10W
R1219	1-216-838-11	METAL CHIP	27K	5%	1/10W
R1220	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1221	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R1223	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R1224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1225	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R1226	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R1230	1-218-893-11	METAL CHIP	82K	0.5%	1/10W
R1231	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R1232	1-218-877-11	METAL CHIP	18K	0.5%	1/10W
R1233	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R1234	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1238	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1246	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1247	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1254	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1730	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R1742	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1743	1-216-864-11	SHORT CHIP	0		
R1747	1-216-864-11	SHORT CHIP	0		
R1748	1-216-864-11	SHORT CHIP	0		
R1749	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R1750	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R1751	1-216-864-11	SHORT CHIP	0		
R1752	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1753	1-216-864-11	SHORT CHIP	0		
R1758	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1781	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1782	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2101	1-218-841-11	METAL CHIP	560	0.5%	1/10W
R2104	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2110	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R2114	1-216-801-11	METAL CHIP	22	5%	1/10W
R2115	1-216-864-11	SHORT CHIP	0		
R2120	1-216-809-11	METAL CHIP	100	5%	1/10W
R2129	1-216-845-11	METAL CHIP	100K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R2130	1-216-809-11	METAL CHIP	100	5%	1/10W
R2131	1-216-809-11	METAL CHIP	100	5%	1/10W
R2136	1-216-805-11	METAL CHIP	47	5%	1/10W
R2150	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2151	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2152	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2155	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2156	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2157	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2158	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2159	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2160	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2161	1-216-864-11	SHORT CHIP	0		
R2162	1-216-864-11	SHORT CHIP	0		
R2167	1-216-864-11	SHORT CHIP	0		
R2168	1-216-815-11	METAL CHIP	330	5%	1/10W
R2178	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2179	1-216-809-11	METAL CHIP	100	5%	1/10W
R2180	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2184	1-216-809-11	METAL CHIP	100	5%	1/10W
R2185	1-216-809-11	METAL CHIP	100	5%	1/10W
R3001	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3002	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3003	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3004	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3006	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3011	1-216-817-11	METAL CHIP	470	5%	1/10W
R3012	1-216-817-11	METAL CHIP	470	5%	1/10W
R3013	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3014	1-216-801-11	METAL CHIP	22	5%	1/10W
R3015	1-216-805-11	METAL CHIP	47	5%	1/10W
R3017	1-216-809-11	METAL CHIP	100	5%	1/10W
R3021	1-216-817-11	METAL CHIP	470	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
R3022	1-216-817-11	METAL CHIP	470	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
R3023	1-216-801-11	METAL CHIP	22	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
R3024	1-216-805-11	METAL CHIP	47	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
R3026	1-216-809-11	METAL CHIP	100	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
R3031	1-216-817-11	METAL CHIP	470	5%	1/10W
R3032	1-216-817-11	METAL CHIP	470	5%	1/10W
R3033	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3034	1-216-801-11	METAL CHIP	22	5%	1/10W
R3035	1-216-805-11	METAL CHIP	47	5%	1/10W
R3037	1-216-809-11	METAL CHIP	100	5%	1/10W
R3040	1-216-864-11	SHORT CHIP	0		
R3041	1-216-864-11	SHORT CHIP	0		
R3042	1-216-864-11	SHORT CHIP	0		
R3043	1-216-864-11	SHORT CHIP	0		
R3044	1-216-864-11	SHORT CHIP	0		
R3045	1-216-864-11	SHORT CHIP	0		
R3046	1-216-864-11	SHORT CHIP	0		
R3047	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3050	1-216-864-11	SHORT CHIP	0		
R3051	1-216-097-11	METAL CHIP	100K	5%	1/10W
R3052	1-216-857-11	METAL CHIP	1M	5%	1/10W
R3053	1-216-809-11	METAL CHIP	100	5%	1/10W
R3054	1-216-805-11	METAL CHIP	47	5%	1/10W
R3055	1-216-805-11	METAL CHIP	47	5%	1/10W
R3056	1-216-864-11	SHORT CHIP	0 (HDX589W/HDX686W)		
R3057	1-216-805-11	METAL CHIP	47	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
R3057	1-216-864-11	SHORT CHIP	0 (HDX589W/HDX686W)		
R3059	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3060	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3065	1-216-809-11	METAL CHIP	100	5%	1/10W
R3067	1-216-864-11	SHORT CHIP	0		
R3068	1-216-864-11	SHORT CHIP	0		
R3074	1-216-805-11	METAL CHIP	47	5%	1/10W
R3075	1-216-805-11	METAL CHIP	47	5%	1/10W
R3076	1-216-805-11	METAL CHIP	47	5%	1/10W
R3080	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3085	1-216-839-11	METAL CHIP	33K	5%	1/10W
R3086	1-216-839-11	METAL CHIP	33K	5%	1/10W
R3087	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3088	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3089	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3090	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3091	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3092	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3093	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3094	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3095	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3096	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3098	1-216-839-11	METAL CHIP	33K	5%	1/10W
R3099	1-216-839-11	METAL CHIP	33K	5%	1/10W
R3101	1-216-805-11	METAL CHIP	47	5%	1/10W
R3102	1-216-805-11	METAL CHIP	47	5%	1/10W
R3104	1-216-864-11	SHORT CHIP	0		
R3107	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3125	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3126	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3127	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3151	1-216-805-11	METAL CHIP	47	5%	1/10W
R3152	1-216-805-11	METAL CHIP	47	5%	1/10W
R3154	1-216-864-11	SHORT CHIP	0		
R3157	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3175	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3176	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3177	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3183	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3184	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3185	1-216-801-11	METAL CHIP	22	5%	1/10W
R3186	1-216-801-11	METAL CHIP	22	5%	1/10W
R3191	1-216-805-11	METAL CHIP	47	5%	1/10W
R3192	1-216-805-11	METAL CHIP	47	5%	1/10W
R3201	1-216-805-11	METAL CHIP	47	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)
R3202	1-216-805-11	METAL CHIP	47	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)

Ref. No.	Part No.	Description				Remark
R3204	1-216-864-11	SHORT CHIP	0 (HDX285/HDX287WC/ HDX585/HDX587WC/HDX685)			
R3207	1-216-835-11	METAL CHIP	15K	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/ HDX685)	
R3225	1-216-845-11	METAL CHIP	100K	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/ HDX685)	
R3226	1-216-845-11	METAL CHIP	100K	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/ HDX685)	
R3227	1-216-845-11	METAL CHIP	100K	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/ HDX685)	
R3251	1-216-805-11	METAL CHIP	47	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/ HDX685)	
R3252	1-216-805-11	METAL CHIP	47	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/ HDX685)	
R3254	1-216-864-11	SHORT CHIP	0 (HDX285/HDX287WC/HDX585/HDX587WC/ HDX685)			
R3257	1-216-835-11	METAL CHIP	15K	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/ HDX685)	
R3275	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3276	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3277	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3301	1-216-805-11	METAL CHIP	47	5%	1/10W	
R3302	1-216-805-11	METAL CHIP	47	5%	1/10W	
R3304	1-216-864-11	SHORT CHIP	0			
R3307	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R3325	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3326	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3327	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3401	1-216-805-11	METAL CHIP	47	5%	1/10W	
R3402	1-216-805-11	METAL CHIP	47	5%	1/10W	
R3404	1-216-864-11	SHORT CHIP	0			
R3407	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R3425	1-216-845-11	METAL CHIP	100K	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/ HDX685)	
R3426	1-216-845-11	METAL CHIP	100K	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/ HDX685)	
R3427	1-216-845-11	METAL CHIP	100K	5%	1/10W (HDX285/HDX287WC/HDX585/HDX587WC/ HDX685)	
R3501	1-216-805-11	METAL CHIP	47	5%	1/10W	
R3502	1-216-805-11	METAL CHIP	47	5%	1/10W	
R3504	1-216-864-11	SHORT CHIP	0			
R3507	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R3551	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3552	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R3553	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R3554	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3556	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R3558	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R3559	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R3561	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R3562	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R3563	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3901	1-216-296-11	SHORT CHIP	0			
R3902	1-216-296-11	SHORT CHIP	0			
R3905	1-216-296-11	SHORT CHIP	0			
R3906	1-216-296-11	SHORT CHIP	0			
R3907	1-216-864-11	SHORT CHIP	0			
R3911	1-216-864-11	SHORT CHIP	0			
R3912	1-216-864-11	SHORT CHIP	0			
R3913	1-216-864-11	SHORT CHIP	0			
R3914	1-216-864-11	SHORT CHIP	0			
R3917	1-216-864-11	SHORT CHIP	0			
R3918	1-216-864-11	SHORT CHIP	0			
R3919	1-216-864-11	SHORT CHIP	0			
R3920	1-216-864-11	SHORT CHIP	0			
R3921	1-216-864-11	SHORT CHIP	0			
R9918	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R9922	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R9924	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R9928	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R9929	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R9934	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R9935	1-216-864-11	SHORT CHIP	0			
R9941	1-216-838-11	METAL CHIP	27K	5%	1/10W	
R9945	1-216-813-11	METAL CHIP	220	5%	1/10W	
		< COMPOSITION CIRCUIT BLOCK >				
RB1103	1-234-944-21	RES, NETWORK 47 (1005X4)				
RB1104	1-234-944-21	RES, NETWORK 47 (1005X4)				
RB1105	1-234-944-21	RES, NETWORK 47 (1005X4)				
RB1106	1-234-944-21	RES, NETWORK 47 (1005X4)				
RB1109	1-234-944-21	RES, NETWORK 47 (1005X4)				
RB1110	1-234-944-21	RES, NETWORK 47 (1005X4)				
RB1111	1-234-944-21	RES, NETWORK 47 (1005X4)				
RB1112	1-234-400-21	CONDUCTOR, NETWORK (1005X4)				
RB1113	1-234-400-21	CONDUCTOR, NETWORK (1005X4)				
RB1114	1-234-943-21	RES, NETWORK 22 (1005X4)				
RB1115	1-234-943-21	RES, NETWORK 22 (1005X4)				
		< TERMINAL >				
TB3901	1-780-453-11	TERMINAL BOARD (SPEAKER) 2P (SPEAKER CENTER/SUBWOOFER)				
		< VIBRATOR >				
X301	1-814-106-21	VIBRATOR, CRYSTAL (24.576MHz)				
X501	1-795-058-21	VIBRATOR, CERAMIC (5MHz)				
X1101	1-814-103-21	VIBRATOR, CRYSTAL (27MHz)				
X3051	1-814-108-21	VIBRATOR, CRYSTAL (49.1MHz)				
**********						
		MOTOR BOARD				
		**********				
		< SWITCH >				
S761	1-786-704-11	SWITCH, LEVER (SUB TRAY OUT)				
**********						
	A-1568-848-A	POWER BOARD, COMPLETE (E3, EA)				
	A-1568-850-A	POWER BOARD, COMPLETE (US, CND)				
		**********				
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3				
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3				

POWER

Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
⚠ C901	1-165-529-11	MYLAR	0.22uF	10	275V
⚠ C902	1-165-529-11	MYLAR	0.22uF	10	275V
⚠ C903	1-112-330-11	ELECT (BLOCK)	1000uF	20%	200V (US, CND)
⚠ C903	1-114-347-11	ELECT (BLOCK)	330uF	20%	450V (E3, EA)
⚠ C905	1-112-334-91	FILM	0.01uF	5%	400V (US, CND)
⚠ C905	1-112-335-91	FILM	0.0033uF	5%	400V (E3, EA)
⚠ C906	1-117-815-11	FILM	1000PF	3%	1.5KV (E3, EA)
⚠ C907	1-162-964-91	CERAMIC CHIP	0.001uF	10%	50V (E3, EA)
⚠ C907	1-162-965-91	CERAMIC CHIP	0.0015uF	10%	50V (US, CND)
⚠ C908	1-107-909-91	ELECT	47uF	20%	50V
⚠ C909	1-162-960-91	CERAMIC CHIP	220PF	10%	50V
⚠ C910	1-126-965-91	ELECT	22uF	20%	50V
⚠ C912	1-126-947-91	ELECT	47uF	20%	35V
⚠ C913	1-112-866-51	CERAMIC	100PF	10%	250V
⚠ C916	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
⚠ C918	1-112-887-51	CERAMIC	0.01uF	20%	250V
⚠ C920	1-112-887-51	CERAMIC	0.01uF	20%	250V
⚠ C921	1-117-220-81	CERAMIC	150PF	5%	2KV
⚠ C922	1-162-964-91	CERAMIC CHIP	0.001uF	10%	50V
⚠ C923	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V
⚠ C924	1-112-335-91	FILM	0.0033uF	5%	400V
⚠ C926	1-107-930-91	ELECT	22uF	20%	100V
C927	1-112-223-11	ELECT	3300uF	20%	10V
C928	1-112-232-11	ELECT	2700uF	20%	16V
C929	1-112-241-21	ELECT	1000uF	20%	25V
⚠ C930	1-112-866-51	CERAMIC	100PF	10%	250V
C932	1-114-994-11	ELECT	2200uF	20%	35V
C933	1-114-994-11	ELECT	2200uF	20%	35V
C934	1-112-831-31	ELECT	2200uF	20%	35V
C935	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C936	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C937	1-100-756-91	CERAMIC CHIP	0.047uF	10%	50V
⚠ C938	1-112-869-51	CERAMIC	470PF	10%	250V
C939	1-136-165-00	FILM	0.1uF	5%	50V
C940	1-112-228-21	ELECT	1000uF	20%	16V
⚠ C941	1-114-128-91	CERAMIC CHIP	47PF	5%	100V
C942	1-126-941-11	ELECT	470uF	20%	25V
C943	1-126-935-11	ELECT	470uF	20%	16V
C950	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C951	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C956	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
⚠ C963	1-112-869-51	CERAMIC	470PF	10%	250V (E3, EA)
⚠ C963	1-112-871-51	CERAMIC	0.0022uF	20%	250V (US, CND)
⚠ C964	1-112-869-51	CERAMIC	470PF	10%	250V (E3, EA)
⚠ C964	1-112-871-51	CERAMIC	0.0022uF	20%	250V (US, CND)
C969	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C970	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C971	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C972	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C973	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C975	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C976	1-126-933-11	ELECT	100uF	20%	16V
⚠ C980	1-117-828-11	FILM	3300PF	3%	1.5KV (US, CND)
⚠ C981	1-162-968-91	CERAMIC CHIP	0.0047uF	10%	50V
C983	1-100-756-91	CERAMIC CHIP	0.047uF	10%	50V
C984	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C987	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C990	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C991	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C992	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C993	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C997	1-116-078-11	CERAMIC CHIP	1uF	10%	50V
		< CONNECTOR >			
CN901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
CN904	1-785-102-11	PIN, CONNECTOR (3.96mm PITCH) 4P			
CN906	1-564-715-11	PIN, CONNECTOR (SMALL TYPE) 13P			
CN908	1-564-505-11	PLUG, CONNECTOR 2P			
		< DIODE >			
⚠ D901	8-719-082-57	DIODE D5SBA60F01			
⚠ D902	8-719-063-74	DIODE D1NL20U-TR2			
⚠ D905	8-719-063-74	DIODE D1NL20U-TR2			
⚠ D906	6-501-817-01	DIODE MA2J1110GLS0			
⚠ D907	6-501-817-01	DIODE MA2J1110GLS0			
⚠ D908	6-501-817-01	DIODE MA2J1110GLS0			
⚠ D909	6-501-817-01	DIODE MA2J1110GLS0			
⚠ D910	6-501-817-01	DIODE MA2J1110GLS0			
D911	6-502-484-21	DIODE SG10SC6M-5600			
D912	6-501-917-11	DIODE SG10SC9-5600			
⚠ D913	6-500-241-01	DIODE SARS03			
⚠ D914	6-501-817-01	DIODE MA2J1110GLS0			
D916	6-502-484-21	DIODE SG10SC6M-5600			
⚠ D921	6-502-234-01	DIODE EG01C LF-F7			
⚠ D922	6-501-817-01	DIODE MA2J1110GLS0			
⚠ D923	6-501-817-01	DIODE MA2J1110GLS0			
⚠ D924	6-501-817-01	DIODE MA2J1110GLS0			
D931	6-501-849-01	DIODE FMX-22SL			
⚠ D946	6-502-234-01	DIODE EG01C LF-F7			
D947	6-502-484-21	DIODE SG10SC6M-5600			
⚠ D948	6-501-817-01	DIODE MA2J1110GLS0			
⚠ D949	6-501-817-01	DIODE MA2J1110GLS0			
⚠ DZ901	6-501-782-01	DIODE MAZ8180GMLS0			
⚠ DZ902	6-502-231-01	DIODE MAZ8220GLLSO			
⚠ DZ903	6-501-768-01	DIODE MAZ8120GMLS0			
⚠ DZ904	6-501-734-01	DIODE MAZ8056GMLS0			
⚠ DZ915	6-501-760-01	DIODE MAZ8100GMLS0			
DZ932	6-501-734-01	DIODE MAZ8056GMLS0			
⚠ DZ951	8-719-083-71	DIODE UDZSUSTE-1730B (US, CND)			
DZ953	6-501-713-01	DIODE MAZ8033G0LS0			
		< EARTH TERMINAL >			
EB902	1-537-770-21	TERMINAL BOARD, GROUND			
EB904	1-537-770-21	TERMINAL BOARD, GROUND			
EB907	1-537-770-21	TERMINAL BOARD, GROUND			
		< FUSE >			
⚠ F945	1-576-794-11	FUSE (2A/32V)			

POWER

Ref. No.	Part No.	Description			Remark
		< FUSE HOLDER >			
FH901	1-533-217-31	FUSE HOLDER			
FH902	1-533-217-31	FUSE HOLDER			
		< FUSIBLE RESISTOR >			
⚠ FR929	1-246-373-11	FUSIBLE	1	10%	1/2W F
		< IC >			
⚠ IC901	6-707-741-01	IC STR-F6138-LF1352 (US, CND)			
⚠ IC901	6-707-742-01	IC STR-F6168-LF1352 (E3, EA)			
IC921	6-711-790-01	IC MR4020-7103			
IC923	6-711-947-01	IC MM1431CURE			
IC932	6-711-947-01	IC MM1431CURE			
IC941	6-712-613-01	IC SI-3010KM-TLS			
		< JUMPER RESISTOR >			
JR930	1-216-864-11	SHORT CHIP	0		
JR931	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L931	1-457-438-11	COIL, CHOKE	5.6uH		
L944	1-414-398-11	INDUCTOR	10uH		
L945	1-414-398-11	INDUCTOR	10uH		
L947	1-414-398-11	INDUCTOR	10uH		
L948	1-414-398-11	INDUCTOR	10uH		
L953	1-414-398-11	INDUCTOR	10uH		
L954	1-457-578-11	COIL, CHOKE	10uH		
L956	1-457-578-11	COIL, CHOKE	10uH		
		< LINE FILTER >			
⚠ LF901	1-457-054-21	COIL, LINE FILTER (E3, EA)			
⚠ LF901	1-457-449-11	COIL, LINE FILTER (US, CND)			
⚠ LF902	1-457-054-21	COIL, LINE FILTER (E3, EA)			
⚠ LF902	1-457-449-11	COIL, LINE FILTER (US, CND)			
		< PHOTO COUPLER >			
⚠ PC901	6-600-276-01	PHOTO COUPLER PS2561AL1-1-V-W			
⚠ PC902	6-600-276-01	PHOTO COUPLER PS2561AL1-1-V-W			
⚠ PC903	6-600-276-01	PHOTO COUPLER PS2561AL1-1-V-W			
⚠ PC904	6-600-276-01	PHOTO COUPLER PS2561AL1-1-V-W			
		< THERMISTOR >			
PS954	1-802-595-11	THERMISTOR, POSITIVE MF-R250			
PS956	1-802-596-11	THERMISTOR, POSITIVE MF-R300			
		< TRANSISTOR >			
⚠ Q901	8-729-231-15	TRANSISTOR	2SA1015TP-YGR		
⚠ Q921	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
⚠ Q922	6-550-702-01	TRANSISTOR	2SC3243-TP-E		
Q930	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q943	8-729-038-28	TRANSISTOR	RT1N441C-TP-1		
Q945	6-550-718-01	FET	RSR025N03TL		
Q947	8-729-038-28	TRANSISTOR	RT1N441C-TP-1		
Q949	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q950	8-729-038-28	TRANSISTOR	RT1N441C-TP-1		
		< RESISTOR >			
⚠ R901	1-219-759-91	METAL	1M	5%	1/2W F (US, CND)

Ref. No.	Part No.	Description			Remark
⚠ R901	1-240-938-91	METAL	1.5M	5%	0.5W F (E3, EA)
⚠ R903	1-215-926-51	METAL OXIDE	33K	5%	3W F (US, CND)
⚠ R903	1-215-929-51	METAL OXIDE	100K	5%	3W F (E3, EA)
⚠ R904	1-215-926-51	METAL OXIDE	33K	5%	3W F (US, CND)
⚠ R904	1-215-929-51	METAL OXIDE	100K	5%	3W F (E3, EA)
⚠ R905	1-216-797-91	METAL CHIP	10	5%	1/10W
⚠ R906	1-216-827-91	METAL CHIP	3.3K	5%	1/10W
⚠ R907	1-216-833-91	METAL CHIP	10K	5%	1/10W
⚠ R908	1-216-829-91	METAL CHIP	4.7K	5%	1/10W
⚠ R909	1-216-833-91	METAL CHIP	10K	5%	1/10W
⚠ R910	1-216-825-91	METAL CHIP	2.2K	5%	1/10W
⚠ R911	1-216-813-91	METAL CHIP	220	5%	1/10W
⚠ R912	1-216-363-61	METAL OXIDE	0.33	5%	2W F (E3, EA)
⚠ R914	1-220-891-11	METAL	0.1	10%	5W F (E3, EA)
⚠ R914	1-248-180-11	METAL	0.034	5%	5W F (US, CND)
⚠ R916	1-215-929-51	METAL OXIDE	100K	5%	3W F
⚠ R917	1-216-829-91	METAL CHIP	4.7K	5%	1/10W
⚠ R919	1-216-837-91	METAL CHIP	22K	5%	1/10W
R920	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R921	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠ R922	1-246-384-41	METAL	0.18	5%	2W F
⚠ R923	1-218-879-91	METAL CHIP	22K	0.5%	1/10W
⚠ R924	1-216-837-91	METAL CHIP	22K	5%	1/10W
⚠ R925	1-216-797-91	METAL CHIP	10	5%	1/10W
⚠ R926	1-218-895-91	METAL CHIP	100K	0.5%	1/10W
⚠ R927	1-216-837-91	METAL CHIP	22K	5%	1/10W
⚠ R928	1-216-845-91	METAL CHIP	100K	5%	1/10W
R930	1-216-817-11	METAL CHIP	470	5%	1/10W
R931	1-218-851-11	METAL CHIP	1.5K	0.5%	1/10W
R932	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R933	1-216-821-11	METAL CHIP	1K	5%	1/10W
R934	1-216-821-11	METAL CHIP	1K	5%	1/10W
R935	1-216-821-11	METAL CHIP	1K	5%	1/10W
R936	1-216-853-11	METAL CHIP	470K	5%	1/10W
R937	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R938	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R939	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R940	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R941	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R942	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R943	1-216-821-11	METAL CHIP	1K	5%	1/10W
R945	1-216-837-11	METAL CHIP	22K	5%	1/10W
R946	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R949	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
⚠ R951	1-218-847-91	METAL CHIP	1K	0.5%	1/10W
R952	1-216-821-11	METAL CHIP	1K	5%	1/10W
R954	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W
R955	1-216-821-11	METAL CHIP	1K	5%	1/10W
R956	1-216-817-11	METAL CHIP	470	5%	1/10W
R957	1-216-841-11	METAL CHIP	47K	5%	1/10W
R958	1-216-821-11	METAL CHIP	1K	5%	1/10W
R959	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R960	1-216-817-11	METAL CHIP	470	5%	1/10W

POWER **P-SW** **RELAY** **S-AIR INCLUDE**

Ref. No.	Part No.	Description			Remark
R962	1-216-864-11	SHORT CHIP	0		
R963	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R965	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R966	1-216-821-11	METAL CHIP	1K	5%	1/10W
R967	1-216-821-11	METAL CHIP	1K	5%	1/10W
R972	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R974	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
⚠ R975	1-218-895-91	METAL CHIP	100K	0.5%	1/10W
⚠ R976	1-218-903-91	METAL CHIP	220K	0.5%	1/10W
⚠ R978	1-216-829-91	METAL CHIP	4.7K	5%	1/10W
⚠ R992	1-216-793-91	METAL CHIP	4.7	5%	1/10W
R998	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R999	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
		< TRANSFORMER >			
⚠ T901	1-443-649-11	TRANSFORMER, CONVERTER (US, CND)			
⚠ T901	1-443-874-11	TRANSFORMER, CONVERTER (E3, EA)			
⚠ T903	1-445-320-11	TRANSFORMER, CONVERTER			
		< THERMISTOR >			
⚠ TH901	1-805-841-21	THERMISTOR, NTC 3.0 (US, CND)			
⚠ TH901	1-805-842-21	THERMISTOR, NTC 6.0 (E3, EA)			
		< VARISTOR >			
⚠ VDR901	1-802-839-11	VARISTOR			
**********					
		P-SW BOARD			
		**********			
		< CAPACITOR >			
C5400	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
CN5400	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< SWITCH >			
S5400	1-762-875-21	SWITCH, KEYBOARD (I/⏻)			
**********					
	A-4750-232-A	RELAY BOARD, COMPLETE (Including ENCODER board)			
		**********			
		< CAPACITOR >			
C701	1-126-786-11	ELECT	47uF	20%	16V
C702	1-126-791-11	ELECT	10uF	20%	35V
C761	1-162-306-11	CERAMIC	0.01uF	20%	16V
C762	1-162-306-11	CERAMIC	0.01uF	20%	16V
		< CONNECTOR >			
CN701	1-779-558-11	CONNECTOR, FFC (LIF (NON-ZIF)) 21P			
		< DIODE >			
D701	8-719-921-40	DIODE MTZJ-4.7C			
D711	8-719-982-10	DIODE MTZJ-4.3A			
		< IC >			
IC701	8-759-598-69	IC BA6956AN			

Ref. No.	Part No.	Description			Remark
IC711	8-759-598-69	IC BA6956AN			
		< TRANSISTOR >			
Q751	8-729-119-78	TRANSISTOR	2SC2785-HFE		
		< RESISTOR >			
R701	1-249-415-11	CARBON	680	5%	1/4W
R702	1-247-807-31	CARBON	100	5%	1/4W
R711	1-249-415-11	CARBON	680	5%	1/4W
R712	1-247-807-31	CARBON	100	5%	1/4W
R751	1-247-806-11	CARBON	91	5%	1/4W
R752	1-249-429-11	CARBON	10K	5%	1/4W
R753	1-249-429-11	CARBON	10K	5%	1/4W
R754	1-249-430-11	CARBON	12K	5%	1/4W
R755	1-249-429-11	CARBON	10K	5%	1/4W
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		S-AIR INCLUDE BOARD (HDX287WC/HDX587WC/HDX589W/HDX686W)			
		**********			
		< CAPACITOR >			
C801	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C803	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C804	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C805	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C806	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C807	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C808	1-126-964-11	ELECT	10uF	20%	50V
C809	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C811	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C813	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C814	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C815	1-126-926-11	ELECT	1000uF	20%	10V
C816	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C817	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C818	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C819	1-126-926-11	ELECT	1000uF	20%	10V
C820	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C823	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C824	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C825	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C826	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C827	1-126-925-91	ELECT	470uF	20%	10V
C828	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C829	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C830	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C831	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C832	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C833	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C834	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C835	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C836	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C837	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C838	1-104-658-91	ELECT	100uF	20%	10V
C839	1-104-658-91	ELECT	100uF	20%	10V
C840	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C841	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C843	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C844	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C845	1-137-649-31	ELECT	220uF	20%	10V

S-AIR INCLUDE **S-AIR-CON**

Ref. No.	Part No.	Description			Remark
C846	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C847	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C848	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C849	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C851	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C852	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN801	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN803	1-821-747-11	CONNECTOR, CARD EDGE 20P (L) (EZW-RT10)			
CN804	1-785-468-41	CONNECTOR, FFC/FPC 13P			
		< DIODE >			
D800	6-500-848-01	DIODE MC2840-T112-1			
		< IC >			
IC800	6-702-302-01	IC TK11133CSCL-G			
IC802	6-709-888-01	IC TC7WHU04FK (T5RSOYF			
IC804	6-712-613-01	IC SI-3010KM-TLS			
IC805	6-713-513-01	IC AK4127VF-E2			
IC806	6-713-513-01	IC AK4127VF-E2			
IC807	6-710-554-01	IC PCM1808PWR			
IC808	8-759-680-48	IC TC7WH157FK (TE85R)			
		< COIL >			
L800	1-469-525-91	INDUCTOR	10uH		
L801	1-414-398-11	INDUCTOR	10uH		
L802	1-469-525-91	INDUCTOR	10uH		
L803	1-469-525-91	INDUCTOR	10uH		
L804	1-469-525-91	INDUCTOR	10uH		
		< RESISTOR >			
R800	1-216-797-11	METAL CHIP	10	5%	1/10W
R801	1-216-797-11	METAL CHIP	10	5%	1/10W
R803	1-216-821-11	METAL CHIP	1K	5%	1/10W
R804	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R805	1-216-821-11	METAL CHIP	1K	5%	1/10W
R806	1-216-845-11	METAL CHIP	100K	5%	1/10W
R807	1-216-809-11	METAL CHIP	100	5%	1/10W
R812	1-216-845-11	METAL CHIP	100K	5%	1/10W
R814	1-216-809-11	METAL CHIP	100	5%	1/10W
R815	1-216-805-11	METAL CHIP	47	5%	1/10W
R824	1-216-809-11	METAL CHIP	100	5%	1/10W
R825	1-216-809-11	METAL CHIP	100	5%	1/10W
R826	1-216-809-11	METAL CHIP	100	5%	1/10W
R827	1-216-809-11	METAL CHIP	100	5%	1/10W
R828	1-216-809-11	METAL CHIP	100	5%	1/10W
R829	1-216-809-11	METAL CHIP	100	5%	1/10W
R830	1-216-821-11	METAL CHIP	1K	5%	1/10W
R831	1-216-809-11	METAL CHIP	100	5%	1/10W
R832	1-216-809-11	METAL CHIP	100	5%	1/10W
R833	1-216-809-11	METAL CHIP	100	5%	1/10W
R834	1-216-809-11	METAL CHIP	100	5%	1/10W
R835	1-216-813-11	METAL CHIP	220	5%	1/10W
R836	1-216-809-11	METAL CHIP	100	5%	1/10W
R837	1-216-821-11	METAL CHIP	1K	5%	1/10W
R838	1-216-821-11	METAL CHIP	1K	5%	1/10W
R839	1-216-864-11	SHORT CHIP	0		
R841	1-216-864-11	SHORT CHIP	0		
R843	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R845	1-216-864-11	SHORT CHIP	0		
R847	1-218-851-11	METAL CHIP	1.5K	0.5%	1/10W
R848	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R849	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R851	1-216-813-11	METAL CHIP	220	5%	1/10W
R852	1-216-809-11	METAL CHIP	100	5%	1/10W
R853	1-216-809-11	METAL CHIP	100	5%	1/10W
R854	1-216-813-11	METAL CHIP	220	5%	1/10W
R855	1-216-864-11	SHORT CHIP	0		
R858	1-216-809-11	METAL CHIP	100	5%	1/10W
R859	1-216-813-11	METAL CHIP	220	5%	1/10W
R860	1-216-809-11	METAL CHIP	100	5%	1/10W
R861	1-216-864-11	SHORT CHIP	0		
R863	1-216-797-11	METAL CHIP	10	5%	1/10W
R864	1-216-797-11	METAL CHIP	10	5%	1/10W
R865	1-216-809-11	METAL CHIP	100	5%	1/10W
R867	1-216-833-11	METAL CHIP	10K	5%	1/10W
R868	1-216-809-11	METAL CHIP	100	5%	1/10W
R869	1-216-833-11	METAL CHIP	10K	5%	1/10W
R870	1-216-821-11	METAL CHIP	1K	5%	1/10W
R871	1-216-833-11	METAL CHIP	10K	5%	1/10W
R872	1-216-813-11	METAL CHIP	220	5%	1/10W
R873	1-216-813-11	METAL CHIP	220	5%	1/10W
R874	1-216-813-11	METAL CHIP	220	5%	1/10W
R875	1-216-864-11	SHORT CHIP	0		
R877	1-216-864-11	SHORT CHIP	0		
R878	1-216-864-11	SHORT CHIP	0		
R881	1-216-864-11	SHORT CHIP	0		
R882	1-216-864-11	SHORT CHIP	0		
R884	1-216-864-11	SHORT CHIP	0		
		< VIBRATOR >			
X800	1-814-109-21	VIBRATOR, CRYSTAL (12.288MHz)			
**********					
		S-AIR-CON BOARD (HDX285/HDX585/HDX685)			
		**********			
		< CONNECTOR >			
CN100	1-779-550-21	CONNECTOR, FFC (LIF (NON-ZIF)) 13P			
CN101	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN102	1-564-517-11	PLUG, CONNECTOR 2P			
CN103	1-821-744-11	CONNECTOR, CARD EDGE 30P (EZW-T100)			
		< TRANSISTOR >			
Q100	8-729-038-28	TRANSISTOR	RT1N441C-TP-1		
Q101	6-550-363-01	TRANSISTOR	2SB1690KT146		
		< RESISTOR >			
R100	1-216-817-11	METAL CHIP	470	5%	1/10W
R101	1-216-817-11	METAL CHIP	470	5%	1/10W
R102	1-216-817-11	METAL CHIP	470	5%	1/10W
R103	1-216-841-11	METAL CHIP	47K	5%	1/10W
R104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W
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SENSOR **SERIPARA** **SPEAKER** **SW (1)**

Ref. No.	Part No.	Description			Remark
		SENSOR BOARD			
		**********			
		< PHOTO SENSOR >			
IC751	8-759-989-76	PHOTO SENSOR RPR-359F			
**********					
	A-1602-535-A	SERIPARA BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C001	1-124-584-00	ELECT	100uF	20%	6.3V
C002	1-126-933-11	ELECT	100uF	20%	16V
C003	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C004	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C005	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C006	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C007	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN001	1-784-041-41	CONNECTOR, BOARD TO BOARD 9P			
CN002	1-779-558-11	CONNECTOR, FFC (LIF (NON-ZIF)) 21P			
CN003	1-779-542-21	CONNECTOR, FFC (LIF (NON-ZIF)) 5P			
		< IC >			
IC001	6-707-095-01	IC BH2210FV-E2			
IC002	6-707-095-01	IC BH2210FV-E2			
		< RESISTOR >			
R003	1-216-813-11	METAL CHIP	220	5%	1/10W
R004	1-216-809-11	METAL CHIP	100	5%	1/10W
R005	1-216-813-11	METAL CHIP	220	5%	1/10W
R006	1-216-809-11	METAL CHIP	100	5%	1/10W
R007	1-216-813-11	METAL CHIP	220	5%	1/10W
R008	1-216-809-11	METAL CHIP	100	5%	1/10W
R009	1-216-809-11	METAL CHIP	100	5%	1/10W
R010	1-216-813-11	METAL CHIP	220	5%	1/10W
R011	1-216-809-11	METAL CHIP	100	5%	1/10W
R012	1-216-809-11	METAL CHIP	100	5%	1/10W
R013	1-216-809-11	METAL CHIP	100	5%	1/10W
R014	1-216-809-11	METAL CHIP	100	5%	1/10W
R015	1-216-809-11	METAL CHIP	100	5%	1/10W
R016	1-216-809-11	METAL CHIP	100	5%	1/10W
R017	1-216-833-11	METAL CHIP	10K	5%	1/10W
R018	1-216-809-11	METAL CHIP	100	5%	1/10W
R019	1-216-809-11	METAL CHIP	100	5%	1/10W
R020	1-216-809-11	METAL CHIP	100	5%	1/10W
R023	1-216-813-11	METAL CHIP	220	5%	1/10W
R024	1-216-809-11	METAL CHIP	100	5%	1/10W
R025	1-216-809-11	METAL CHIP	100	5%	1/10W
R026	1-216-809-11	METAL CHIP	100	5%	1/10W
R027	1-216-809-11	METAL CHIP	100	5%	1/10W
R028	1-216-809-11	METAL CHIP	100	5%	1/10W
R029	1-216-809-11	METAL CHIP	100	5%	1/10W
R030	1-216-809-11	METAL CHIP	100	5%	1/10W
R031	1-216-809-11	METAL CHIP	100	5%	1/10W
R033	1-216-809-11	METAL CHIP	100	5%	1/10W
R035	1-216-809-11	METAL CHIP	100	5%	1/10W
R036	1-216-809-11	METAL CHIP	100	5%	1/10W
R037	1-216-809-11	METAL CHIP	100	5%	1/10W
R038	1-216-809-11	METAL CHIP	100	5%	1/10W
R039	1-216-809-11	METAL CHIP	100	5%	1/10W
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		SPEAKER BOARD			
		**********			
		< CAPACITOR >			
C5300	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
		(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)			
C5301	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)			
C5302	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
		(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)			
C5303	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)			
C5304	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C5305	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5306	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C5307	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5308	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C5309	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5310	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C5311	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5312	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
		(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)			
C5313	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)			
C5314	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
		(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)			
C5315	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		(HDX285/HDX287WC/HDX585/HDX587WC/HDX685)			
		< CONNECTOR >			
* CN5300	1-564-519-11	PLUG, CONNECTOR 4P (HDX589W/HDX686W)			
CN5301	1-564-523-11	PLUG, CONNECTOR 8P (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)			
		< TERMINAL >			
TB5300	1-780-576-11	TAMINAL BOARD (SPEAKER) 2P (SPEAKER FRONT L/FRONT R) (HDX589W/HDX686W)			
TB5301	1-780-454-11	TERMINAL BOARD (SPEAKER) 4P (SPEAKER FRONT L/FRONT R/SUR L/SUR R) (HDX285/HDX287WC/HDX585/HDX587WC/HDX685)			
**********					
		SW (1) BOARD			
		**********			
		< SWITCH >			
S721	1-786-084-11	SWITCH, DETECTION (MAIN TRAY OPEN/CLOSE)			
**********					

Ref. No.	Part No.	Description	Remark
		SW (2) BOARD	
		**********	
		< SWITCH >	
S731	1-786-382-11	SWITCH, PUSH (1 KEY) (SUB TRAY IN)	
		MISCELLANEOUS	
		**********	
7	1-828-331-11	WIRE (FLAT TYPE) (13 CORE)	
8	1-828-330-11	WIRE (FLAT TYPE) (13 CORE)	
⚠ 11	1-834-966-41	POWER-SUPPLY CORD (EA, E3)	
⚠ 11	1-834-978-11	CORD, POWER (US, CND)	
64	1-828-317-11	WIRE (FLAT TYPE) (11 CORE)	
65	1-828-353-11	WIRE (FLAT TYPE) (17 CORE)	
103	1-828-370-11	WIRE (FLAT TYPE) (21 CORE)	
105	1-828-347-11	WIRE (FLAT TYPE) (17 CORE)	
106	1-828-289-11	WIRE (FLAT TYPE) (5 CORE)	
107	1-828-310-11	WIRE (FLAT TYPE) (9 CORE)	
108	1-828-955-11	WIRE (FLAT TYPE) (9 CORE)	
109	1-693-778-11	TUNER (FM/AM) (EA, E3)	
109	1-693-779-11	TUNER (FM/AM) (US, CND)	
⚠ 402	8-820-291-02	OPTICAL PICK-UP BLOCK (KHM-310CAB/C2RP)	(Including sled motor, spindle motor)
⚠ 402	8-820-322-04	OPTICAL PICK-UP BLOCK (KHM-313CAB/C2RP)	(Including sled motor, spindle motor)
406	1-836-385-11	FLEXIBLE FLAT CABLE 24P	
⚠ F901	1-533-311-12	FUSE, GLASS CYLINDRICAL (DIA.5) (8A/125V)	(US, CND)
⚠ F901	1-576-232-51	FUSE (H.B.C.) (T5AH/250V) (EA, E3)	
M001	1-787-396-11	D.C. FAN (50 SQUARE)	
M761	A-4713-174-A	MOTOR (81) ASSY (LOADING)	
M762	A-4713-174-A	MOTOR (81) ASSY (STOCKER UP/DOWN)	
S771	1-478-552-11	ENCODER, ROTARY (MD)	
S781	1-478-551-11	ENCODER, ROTARY (STOCKER UP/DOWN)	
		ACCESSORIES	
		**********	
⚠	1-770-019-71	ADAPTOR, CONVERSION PLUG 3P	(HDX285: EA)

Note 1: If wire (flat type) and flexible flat cable are replaced, install it after bending it in the same form as thet before replacement.

Note 2: Refer to the Servicing Notes “HOW TO IDENTIFY OPTICAL PICK-UP BLOCK” (page 7), if replacing the Ref. No. 402.