

HCD-GN600

SERVICE MANUAL

E Model

Ver 1.0 2003.04



HCD-GN600 is the amplifier, CD player, tape deck and tuner section in MHC-GN600.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM74-K6BD47S
	Base Unit Name	BU-K6BD47S
	Optical Pick-up Name	KSM-213DCP
TAPE Section	Model Name Using Similar Mechanism	HCD-XGR88
	Tape Transport Mechanism Type	CWM43RR23

SPECIFICATIONS

Amplifier section

The following are measured at AC 127V, 60 Hz (Mexican model only)

The following are measured at AC 120, 220, 240V50/60 Hz (except Mexican model)

DIN power output (rated) 130 + 130 watts
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)
165 + 165 watts
(6 ohms at 1 kHz, 10% THD)

Inputs

GAME (VIDEO): 1 Vp-p, 75 ohms
(phono jack)

GAME (AUDIO): Voltage 250 mV,
(phono jacks) impedance 47 kilohms
MD/VIDEO (AUDIO) IN: voltage 450 mV/250 mV,
(phono jacks) impedance 47 kilohms

MIC: sensitivity 1 mV,
(phone jack) impedance 10 kilohms

Outputs

VIDEO OUT: max. output level 1 Vp-p,
(phono jacks) unbalanced, Sync.
negative load impedance 75 ohms

PHONES: accepts headphones of
(stereo mini jack) 8 ohms or more

FRONT SPEAKER: accepts impedance of 6 to
16 ohms

CD player section

System Compact disc and digital audio system
Laser Semiconductor laser
($\lambda=795\text{nm}$)

Laser Output Max. 44.6 μW *
*This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.

Frequency response 2 Hz – 20 kHz (± 0.5 dB)

Wave length 795 nm

CD OPTICAL DIGITAL OUT

(Square optical connector jack, rear panel)

Wave length 660 nm

Output Level –18 dBm

Tape player section

Recording system 4-track 2-channel stereo
Frequency response 50 – 13,000 Hz (± 3 dB),
using Sony TYPE I cassette

– Continued on next page –

Mini Hi-Fi COMPONENT SYSTEM

9-877-282-01

2003D0200-1

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Home Audio Company

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SONY®

HCD-GN600

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
North and Latin American models:	530 – 1,710 kHz (with the interval set at 10 kHz) 531 – 1,710 kHz (with the interval set at 9 kHz)
Middle Eastern models:	531 – 1,602 kHz (with the interval set at 9 kHz)
Other models:	531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	
Mexican models:	127 V AC, 60 Hz
Argentina models:	220 V AC, 50/60 Hz
Other models:	120 V, 220 V or 230 - 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption	145 watts
Dimensions (w/h/d)	Approx. 280 x 360 x 386.5 mm
Mass :	Approx. 10.5 kg

Design and specifications are subject to change without notice.

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 the 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

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



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

SAFETY-RELATED COMPONENT WARNING!!

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

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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.

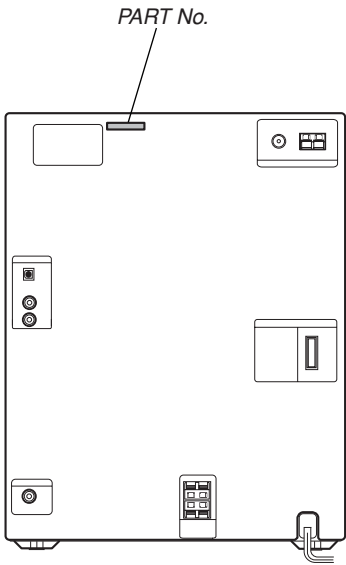
NOTES ON LASER DIODE EMISSION CHECK

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 pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION
CHECK

Carry out the “S curve check” in “CD section adjustment” and check that the S curve waveforms is output three times.

• MODEL IDENTIFICATION
– Back Panel –



MODEL	PART No.
E2 model	4-244-103-0□
E51 model	4-244-103-1□
Mexican model	4-244-103-2□
Argentina model	4-244-103-3□

- Abbreviation
E2 : 120 V AC Area in E model
E51 : Chilean and Peruvian model

SECTION 2 GENERAL

This section is extracted from instruction manual.

Main unit

ALPHABETICAL ORDER

A - D

ALBUM +/- [15]
AMP MENU [43]
CD [40]
CD SYNC [17]
DECK A [28]
DECK B [23]
DIRECTION [9]
DISC 1~3 [3]
DISC SKIP-CHANGE [4]
Disc tray [6]
DISPLAY [41]
Display [2]

E - L

EDIT [9]
EFFECT ON/OFF [44]
FM MODE [8]
GAME [36]
GAME EQ [31]

GAME INPUT (jacks) [27]
GAME MIXING [34]
GROOVE [33]
IR (receptor) [42]
ILLUMINATION [29]

M - Q

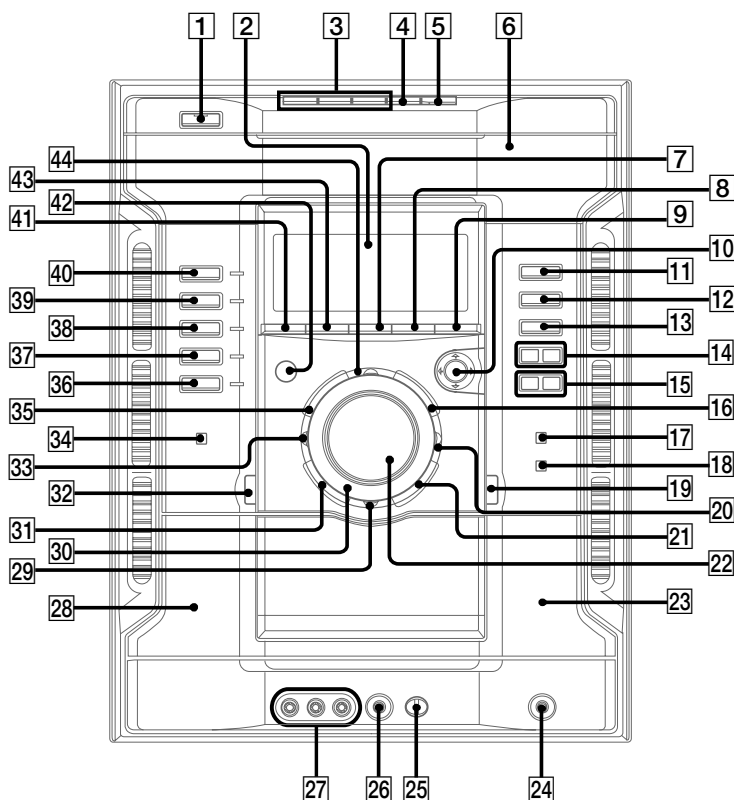
MD (VIDEO) [37]
MIC (jack) [26]
MIC LEVEL [25]
MOVIE EQ [16]
MUSIC EQ [35]
OPEN/CLOSE ▲ [5]
P FILE [21]
PHONES (jack) [24]
PLAY MODE [7]
Power illuminator [30]
PUSH ENTER [10]

R - Z

REC PAUSE/START [18]
REPEAT [8]
SURROUND [20]
TAPE A/B [38]
TUNER/BAND [39]
TUNER MEMORY [7]
VOLUME [22]

SYMBOLS

I/⏻ (power) [1]
◀▶ (play) [11]
■ (stop) [12]
⏸ (pause) [13]
- ⏮ (go backward) [14]
▶▶ + (go forward) [14]
◀◀ (rewind) [15]
▶▶ (fast forward) [15]
⏮/⏪/⏩/⏭ [10]
⏏ A (Eject A) [32]
⏏ B (Eject B) [19]



Remote Control

ALPHABETICAL ORDER

A - M

CD [19]
 CLEAR [7]
 CLOCK/TIMER SELECT [2]
 CLOCK/TIMER SET [3]
 D.SKIP [9]
 ENTER [13]
 EFFECT ON/OFF [14]
 GAME [20]
 MD (VIDEO) [10]

P - Z

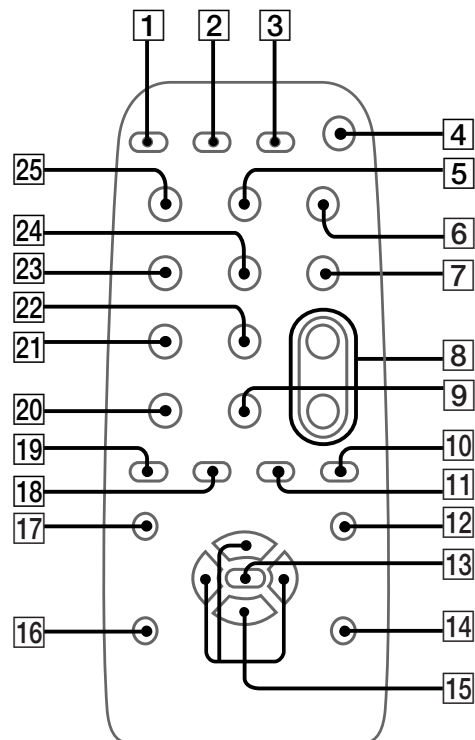
PRESET - [23]
 PRESET + [24]
 PRESET EQ [17]
 P FILE [16]
 SURROUND [12]
 SLEEP [1]
 TAPE A/B [11]
 TUNER/BAND [18]
 TUNING - [21]

TUNING + [22]

VOL +/- [8]

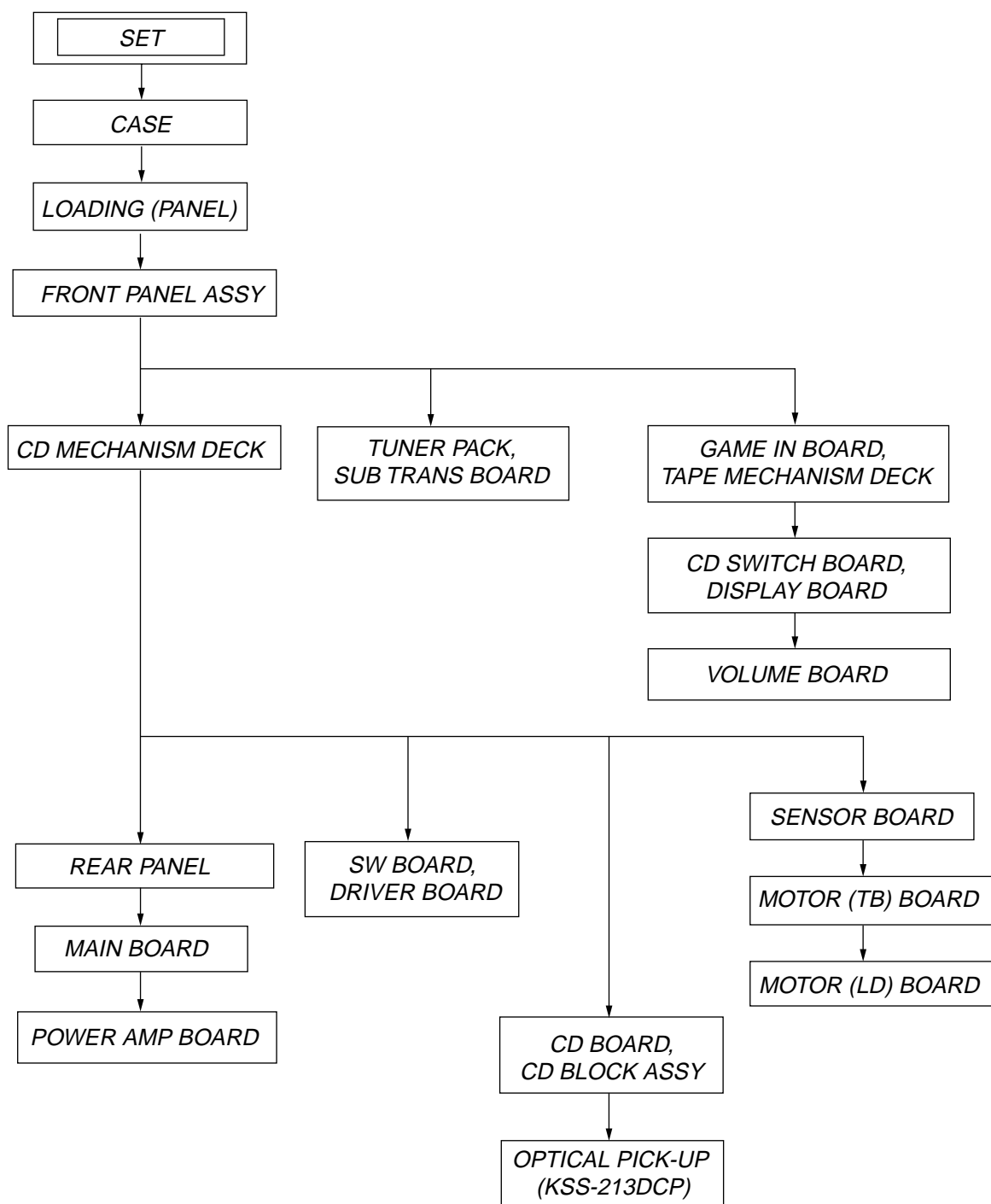
SYMBOLS

I/⏻ (power) [4]
 ◀▶ (play) [25]
 || (pause) [5]
 ■ (stop) [6]
 ◀◀ (go backward) [23]
 ▶▶ (go forward) [24]
 ◀◀ (rewind) [21]
 ▶▶ (fast forward) [22]
 ↑/↓/◀/▶ [15]



SECTION 3 DISASSEMBLY

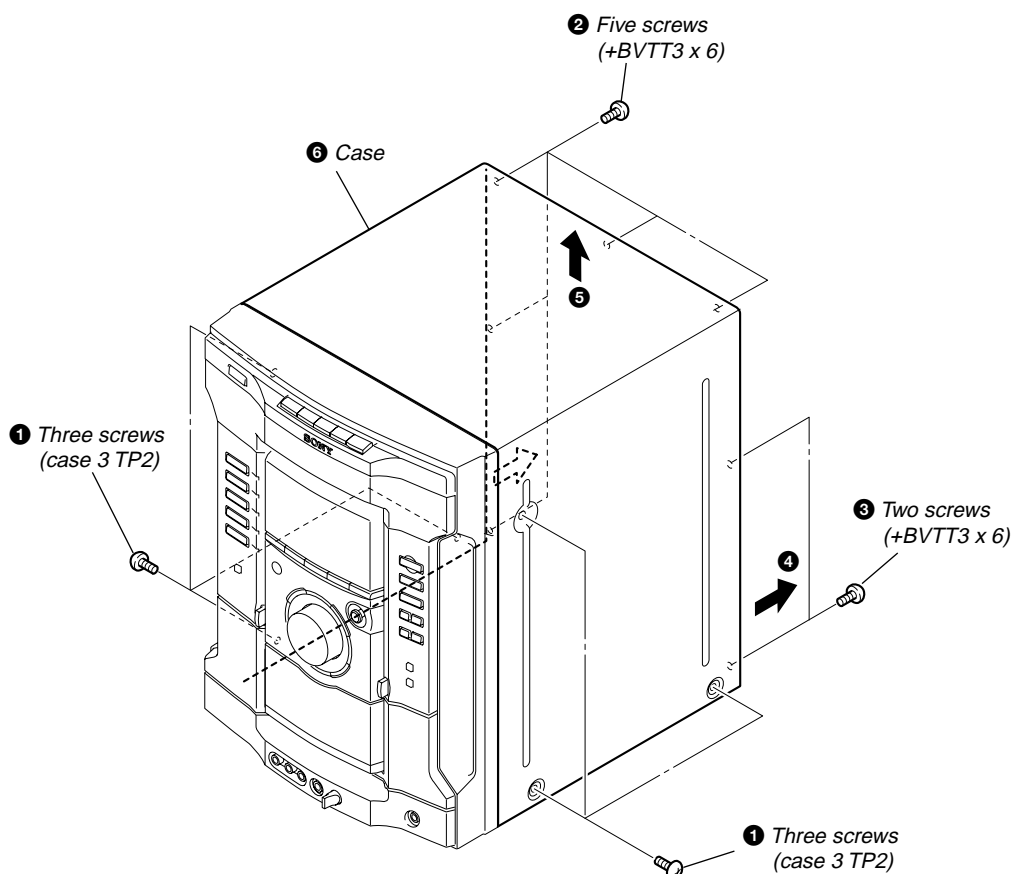
- This set can be disassembled in the order shown below.



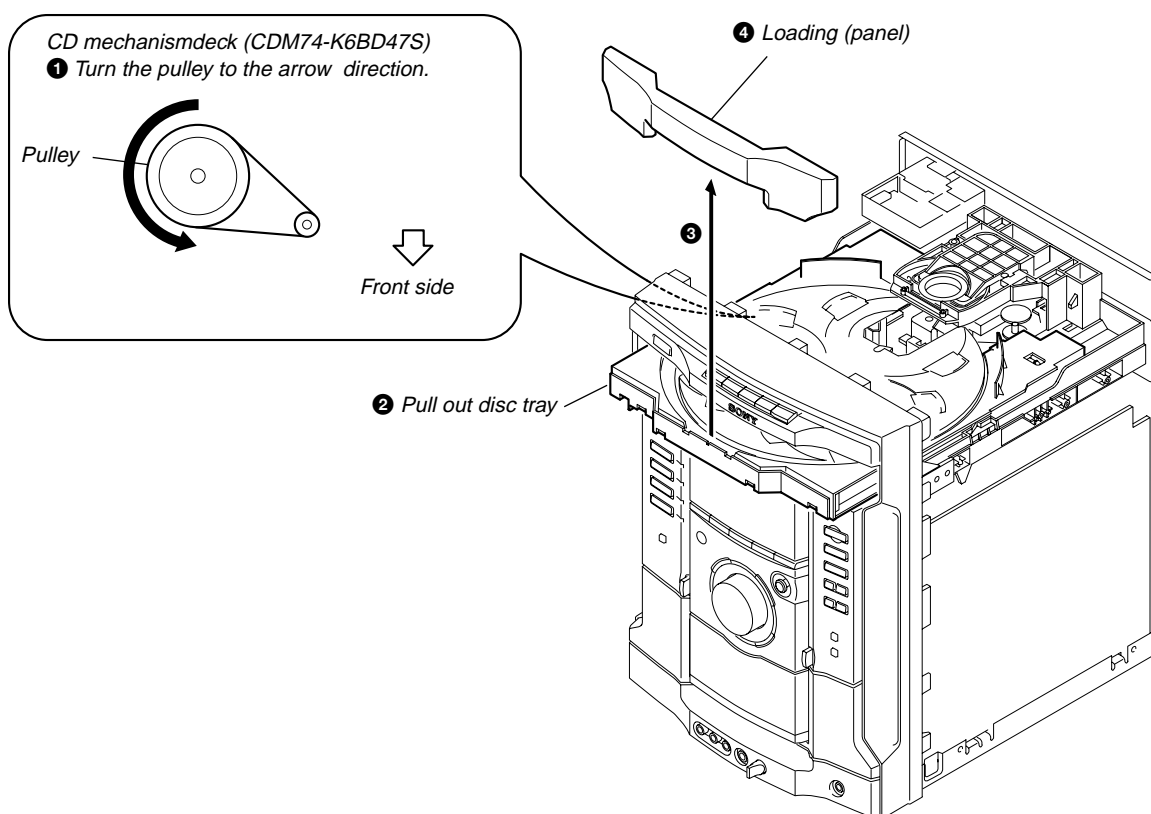
HCD-GN600

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

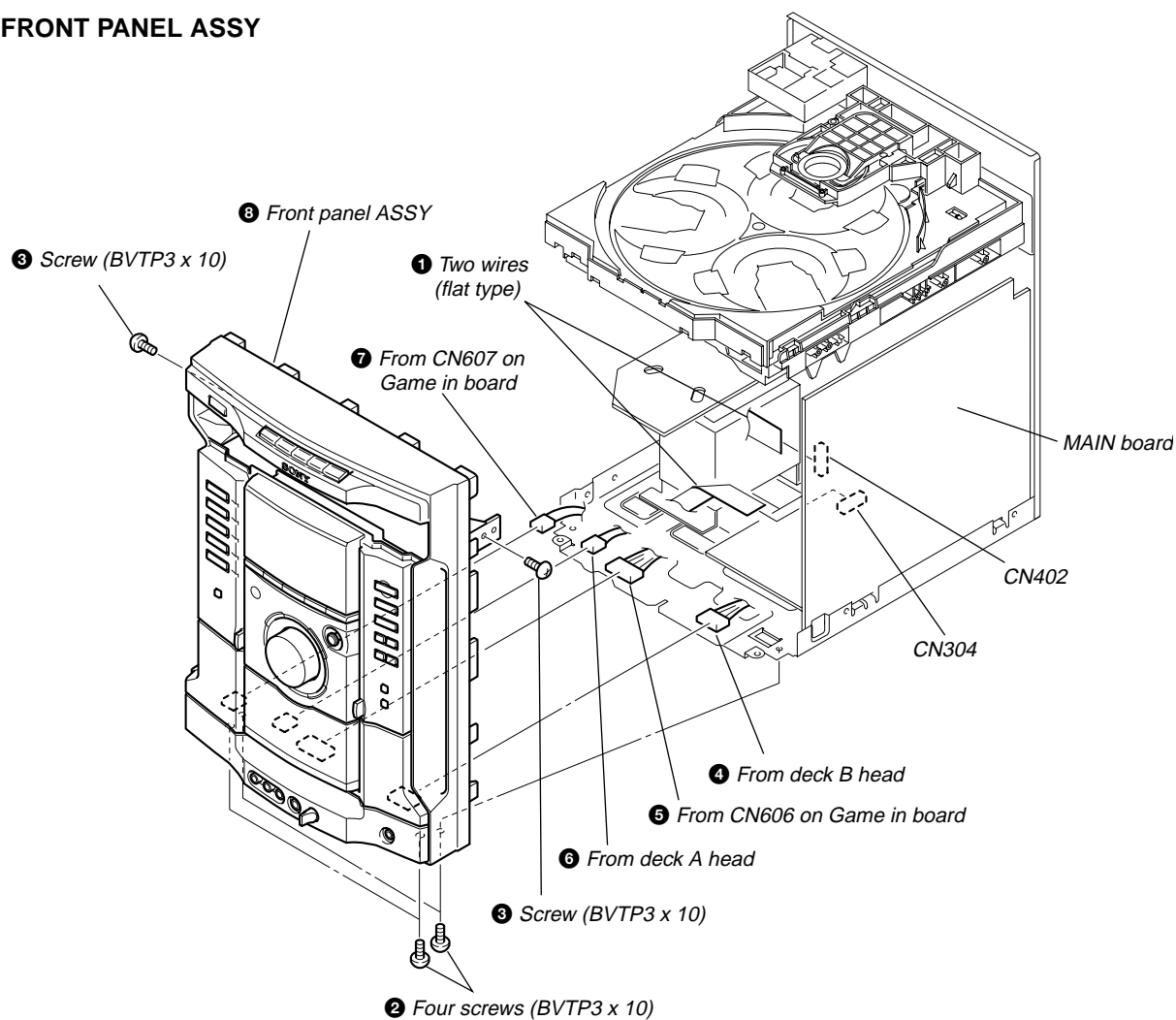
3-1. CASE



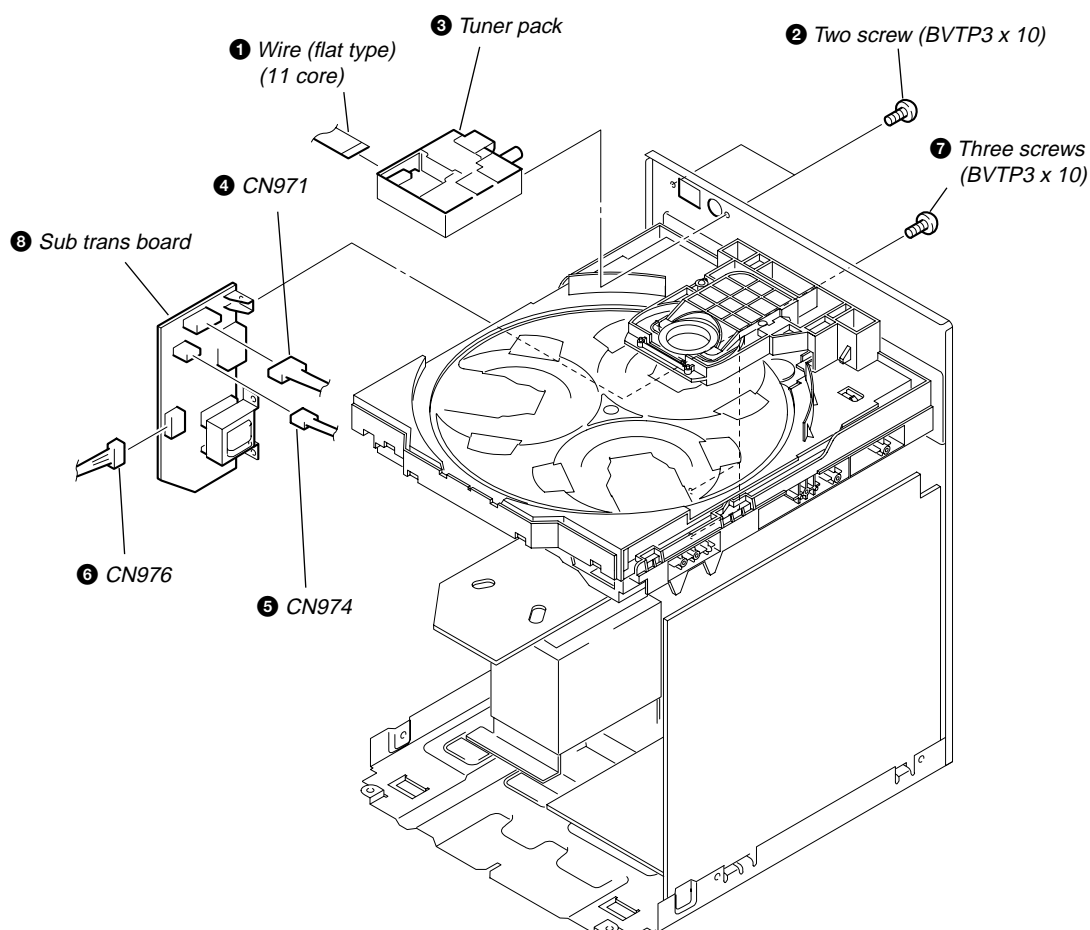
3-2. LOADING (PANEL)



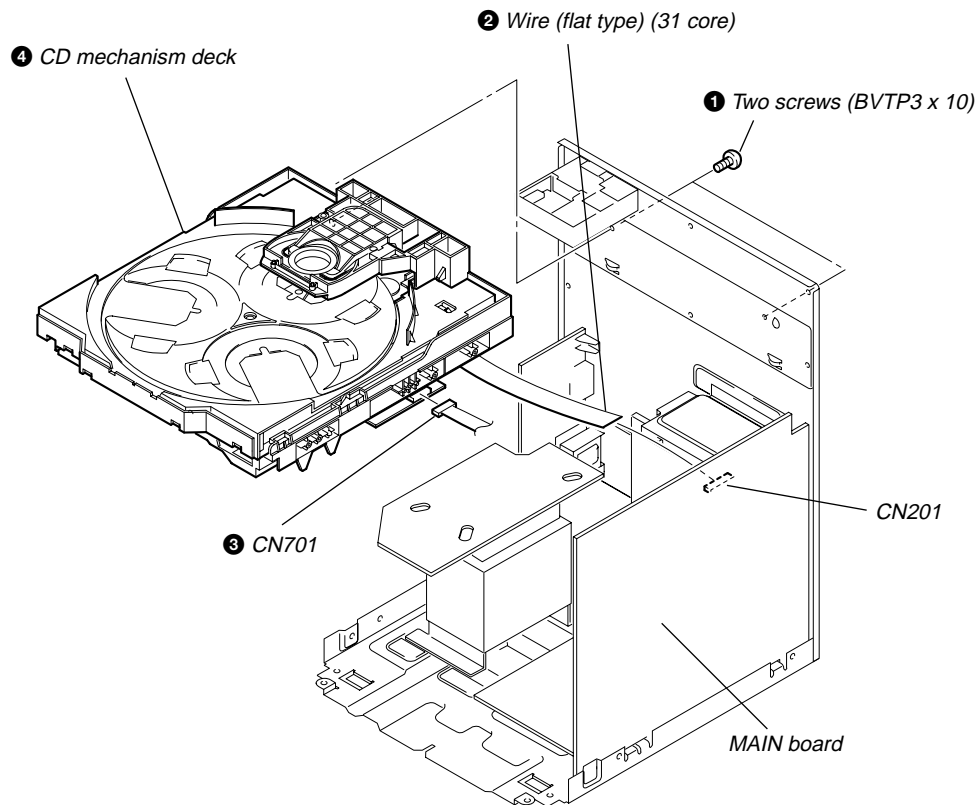
3-3. FRONT PANEL ASSY



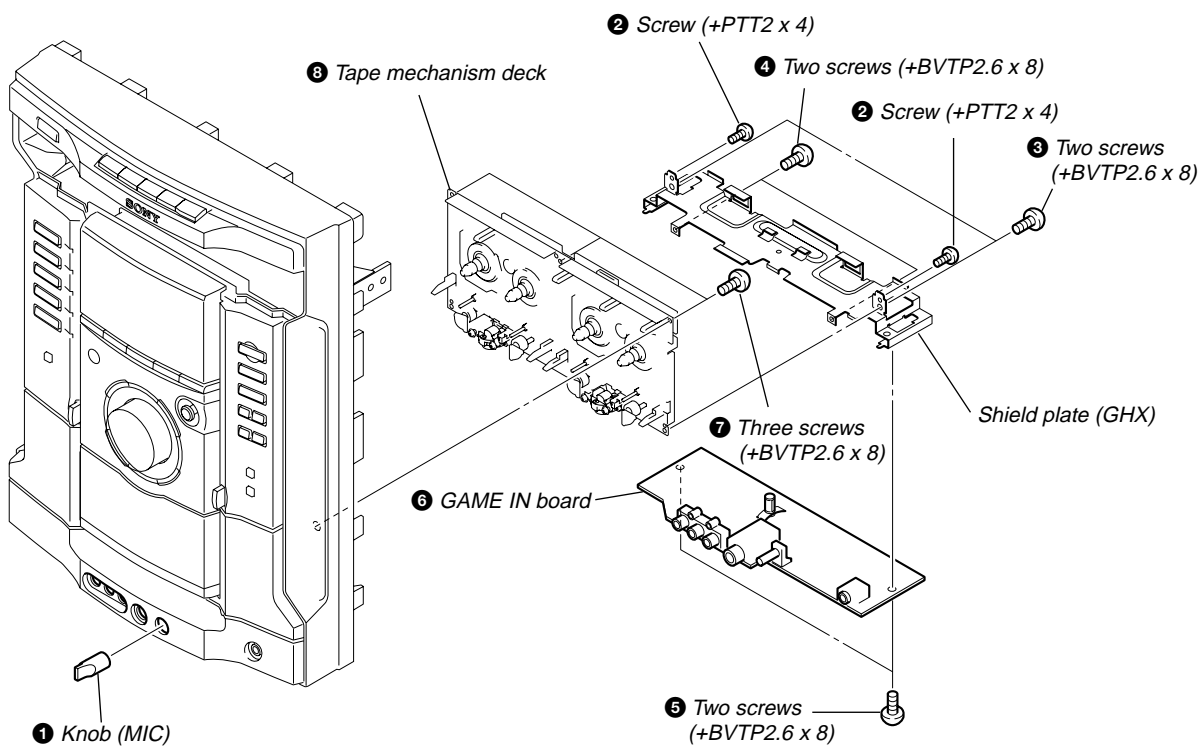
3-4. TUNER PACK, SUB TRANS BOARD



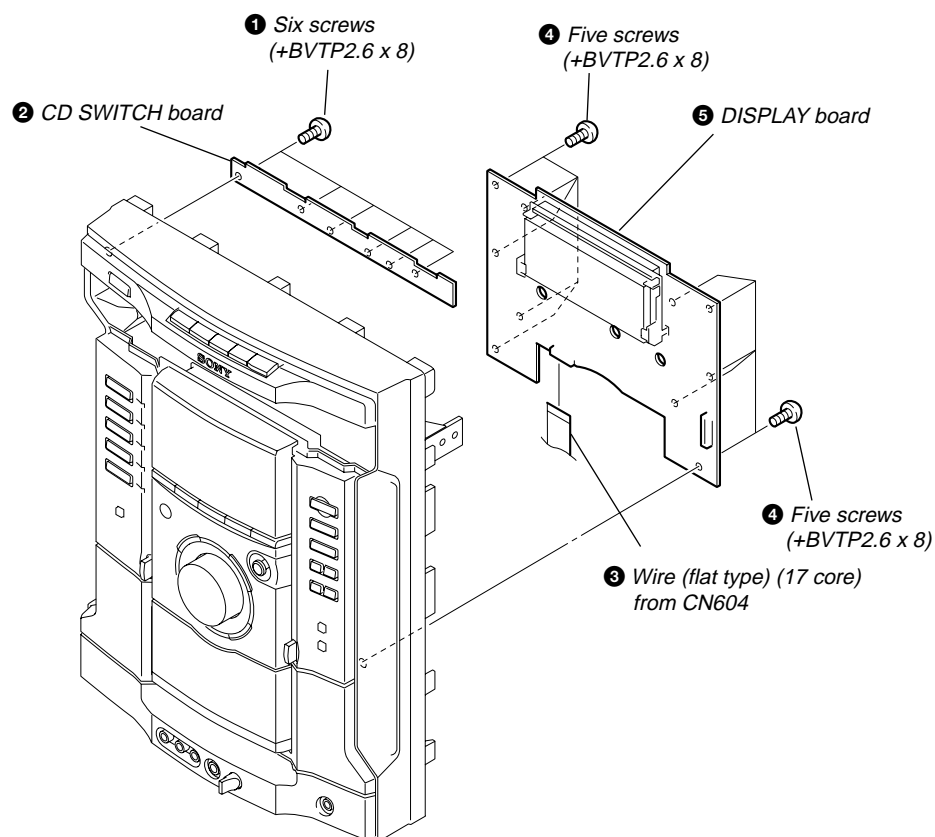
3-5. CD MECHANISM DECK



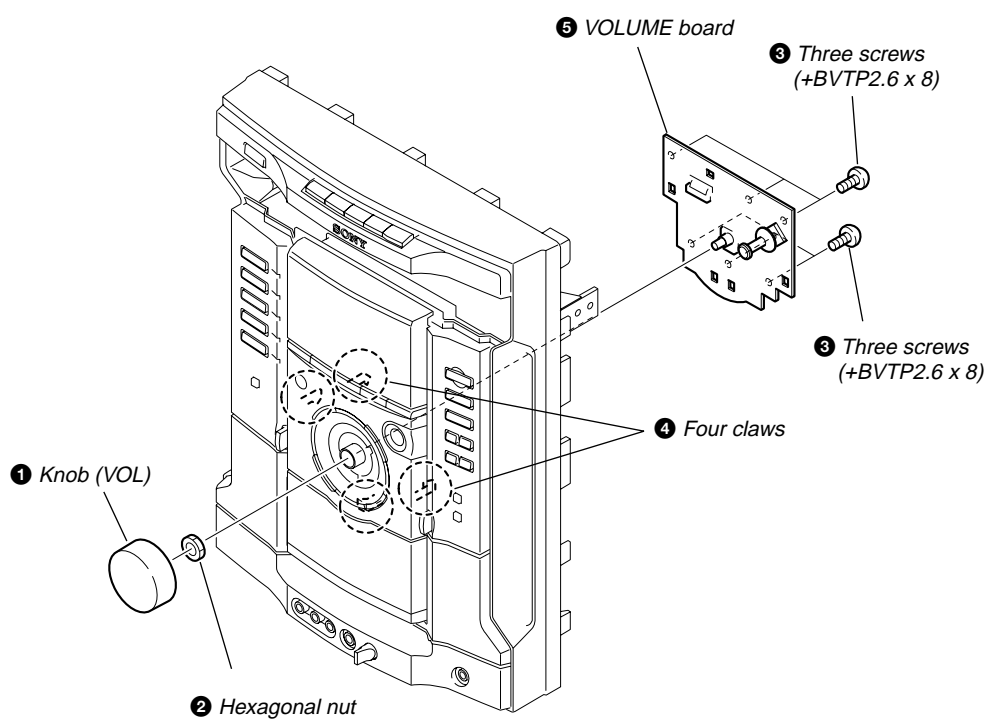
3-6. GAME IN BOARD, TAPE MECHANISM DECK



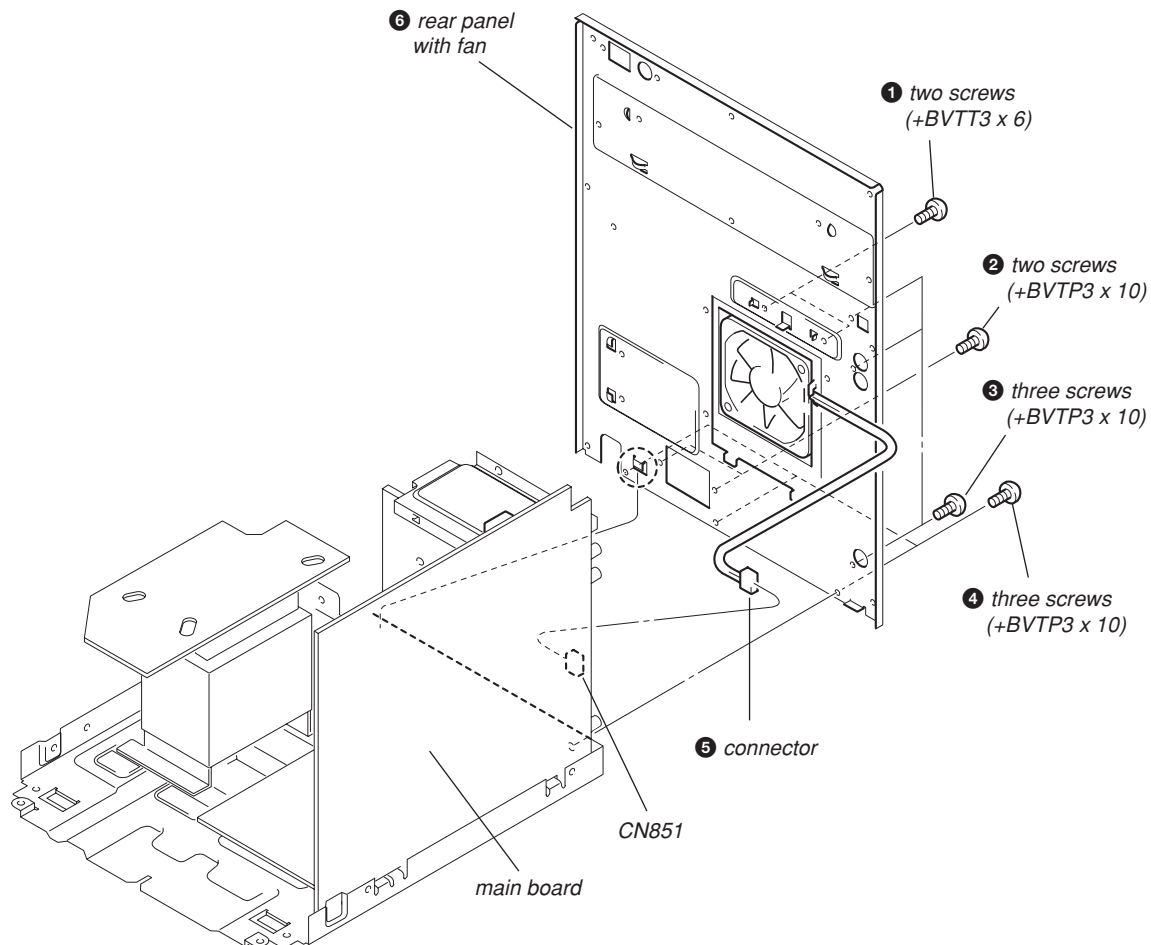
3-7. CD SWITCH BOARD, DISPLAY BOARD



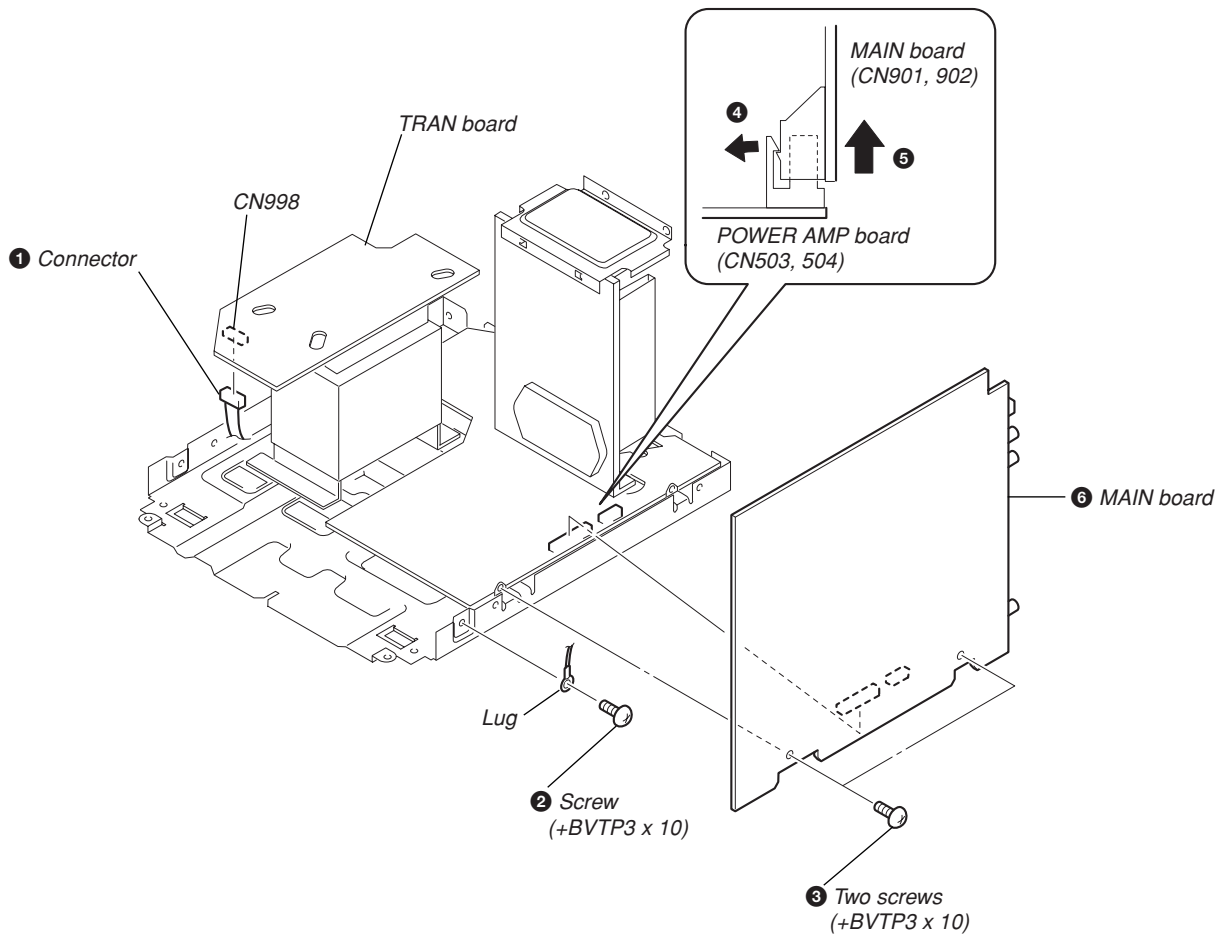
3-8. VOLUME BOARD



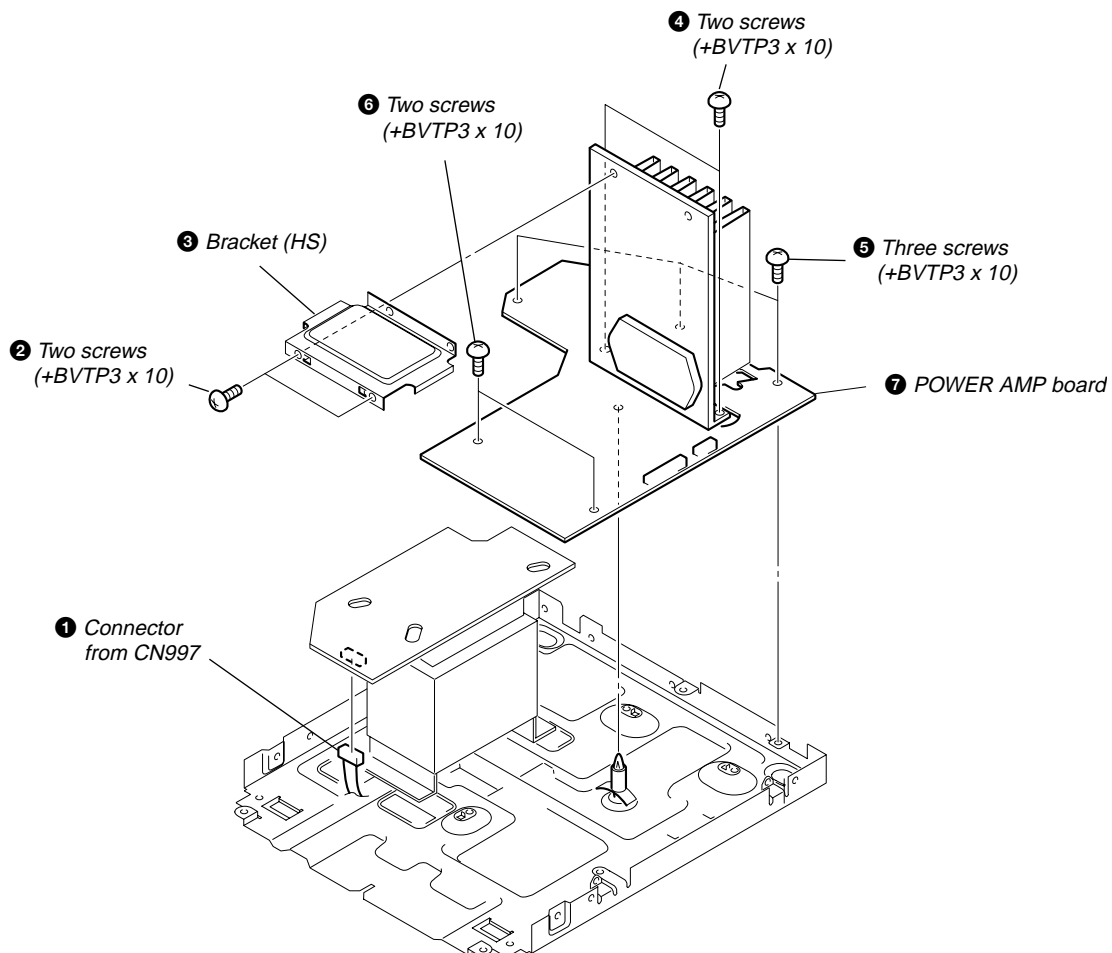
3-9. REAR PANEL



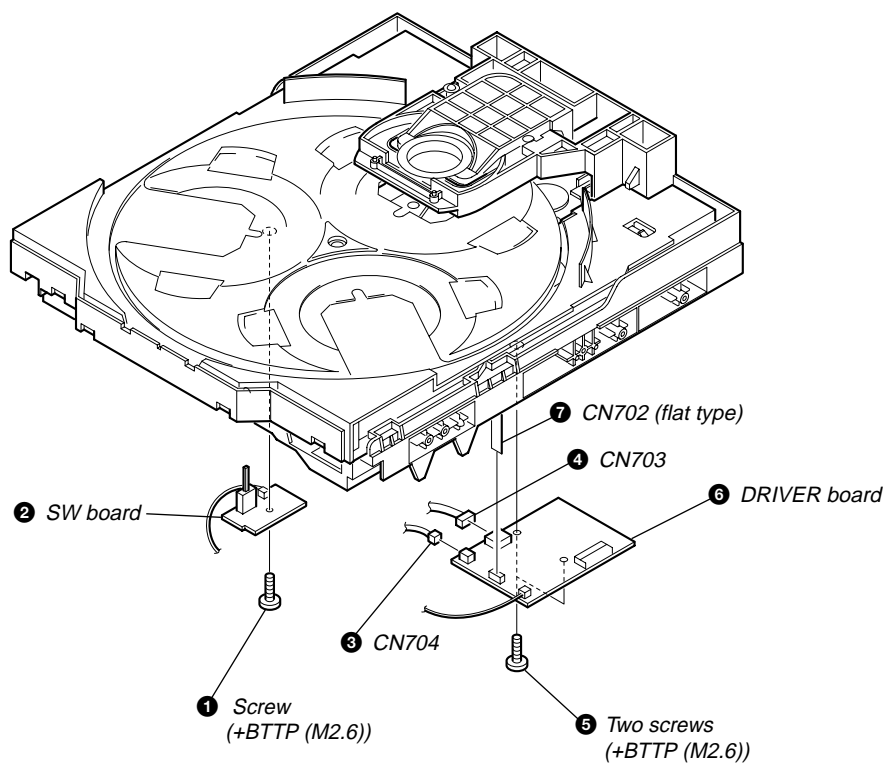
3-10. MAIN BOARD



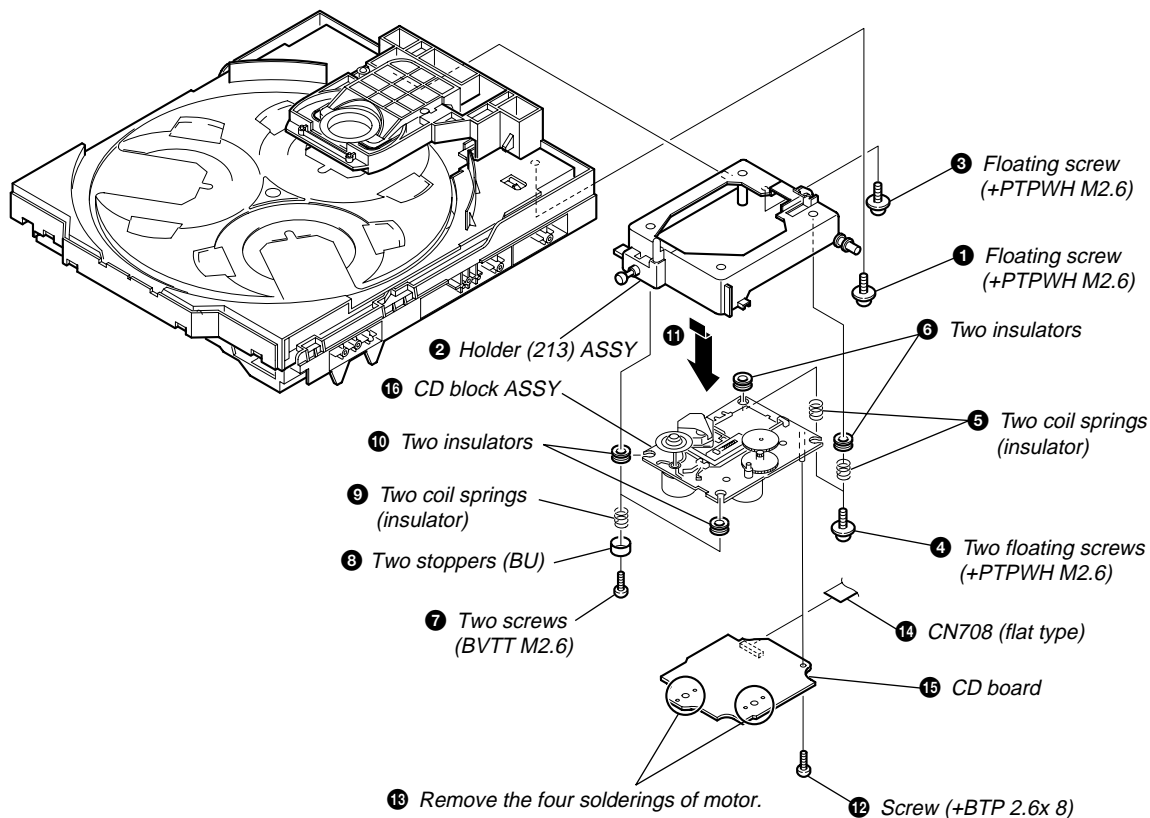
3-11. POWER AMP BOARD



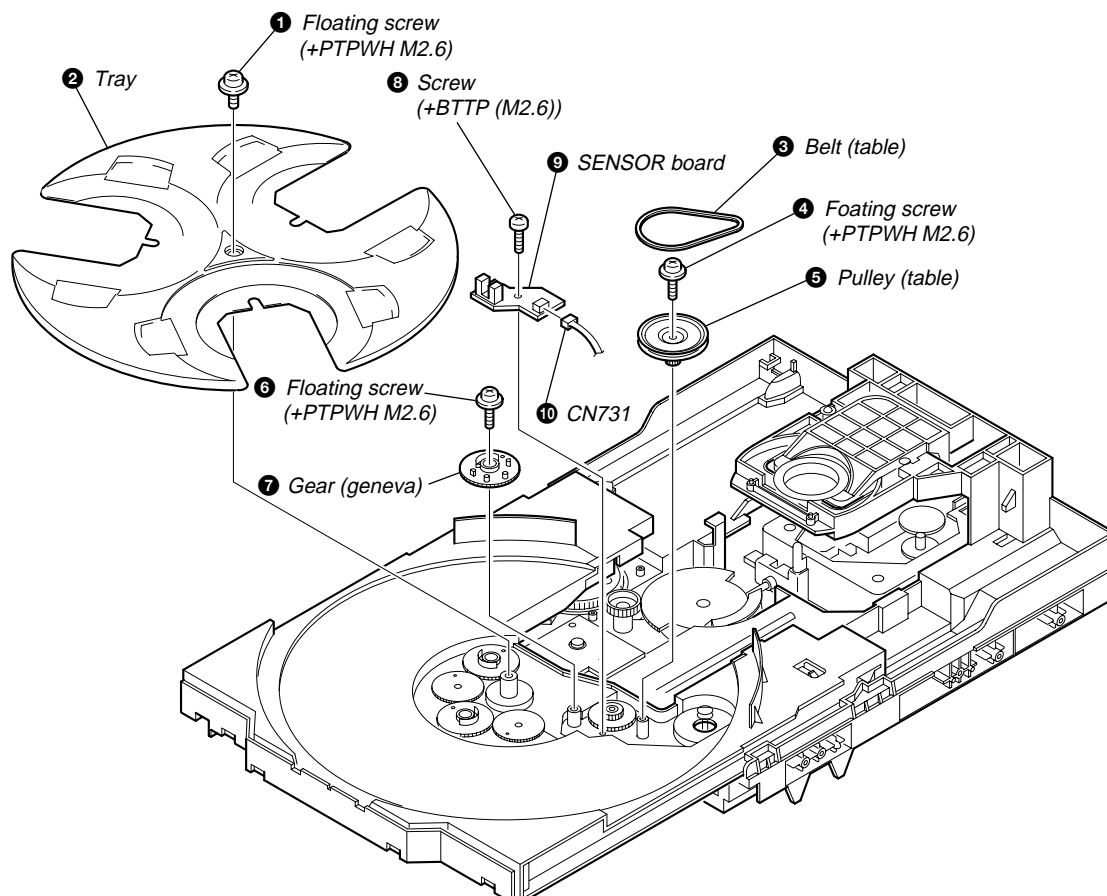
3-12. SW BOARD, DRIVER BOARD



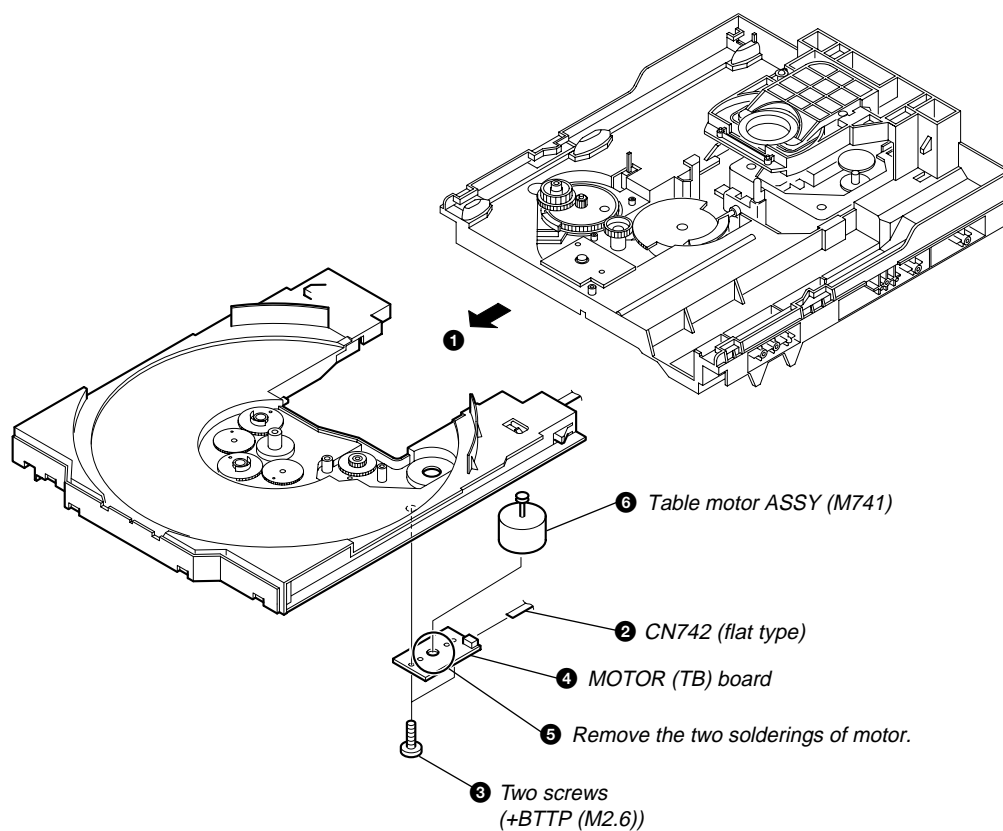
3-13. CD BOARD, CD BLOCK ASSY



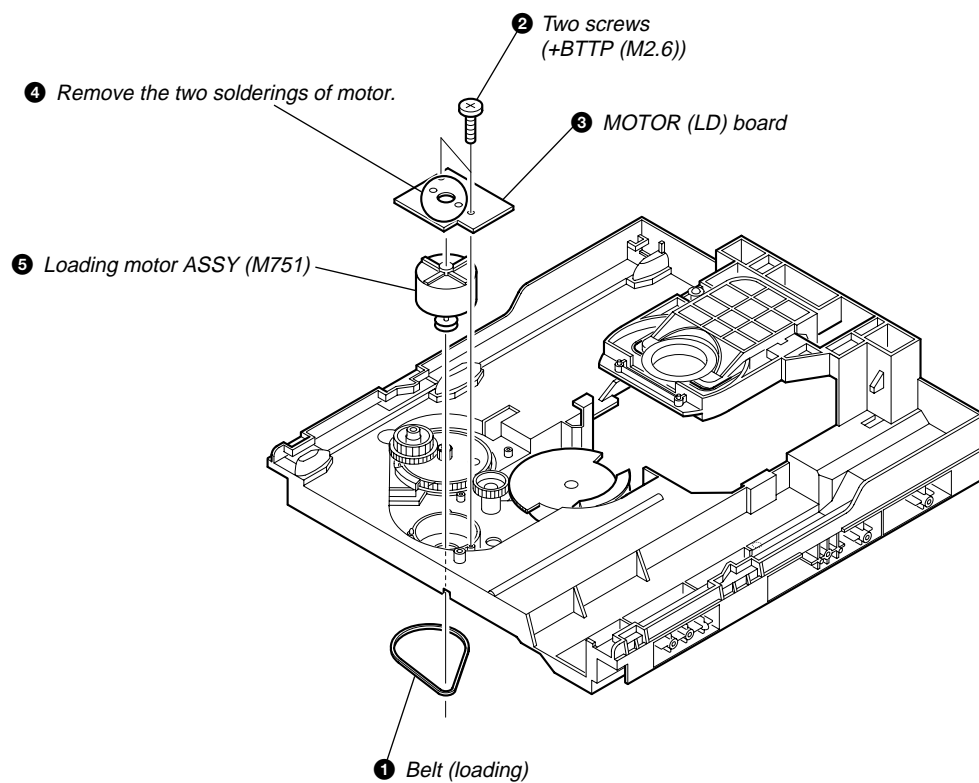
3-14. SENSOR BOARD



3-15. MOTOR (TB) BOARD



3-16. MOTOR (LD) BOARD



SECTION 4 TEST MODE

[GC TEST MODE]

- This mode is used to check the fluorescent indicator tube, LED, model, destination, software version, volume, key and VACS level.

Procedure:

- Press button, button and button simultaneously.
- All LEDs and segments in fluorescent indicator tube are lighted up.
- When you want to enter the software version display mode, press button. The model and destination are displayed.
- Each time button is pressed, the display changes from MC version, GC version, CD version, CDDM version, CDMA version, CDMB version, BDA version, BDB version, ST version, TA version, TM version and TC version in this order, and returns to the MC version display.
- When button is pressed while the version numbers are being displayed except model and destination, the date of the software creation appear. When button is pressed again, the display returns to the software version display. When button is pressed while the date of the software creation is being displayed, the date of the software creation is displayed in the same order of software version display.
- Press button, the key check mode is activated.
- In the key check mode, the fluorescent indicator tube displays "K 0 V 0".
Each time a button is pressed, "K" value increases. However, once a button has been pressed, it is no longer taken into account. "V" value increases in the manner of 0, 1, 2, 3 ... if knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if knob is turned counter-clockwise.
- When button is pressed after all LEDs and segments in fluorescent indicator tube light up, the fluorescent indicator tube displays "VACS A + B". A is VACS level which is trigger by signal level while B is VACS level which is trigger by thermal. Total VACS value would be the sum of A and B.
- When button is pressed after all LEDs and segments in fluorescent indicator tube light up, alternate segments in fluorescent indicator tube would light up. If you press button again, another half of alternate segments in fluorescent indicator tube would light up. Pressing button again would case all segments lights up.
- To release this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[MC TEST MODE]

- This mode is used to check operations of the respective sections of Amplifier, Tuner, and Tape.

Procedure:

* To enter MC Test Mode

- Press button, button and button simultaneously.
- The TAPE A and TAPE B segments flash on the fluorescent indicator tube. The function is changed to VIDEO.

* Check of Amplifier

- When button is pressed, GEQ increases to its maximum and a message "GEQ MAX" appears on the fluorescent indicator tube.
- When button is pressed, GEQ decreases to its minimum and a message "GEQ MIN" appears on the fluorescent indicator tube.
- When button or button is pressed, GEQ is set to flat and a message "GEQ FLAT" appears on the fluorescent indicator tube.
- When the knob is turned clockwise even slightly, the sound volume increases to its maximum and a message "VOLUME MAX" appears for two seconds, then the display returns to the original display.
- When the knob is turned counter-clockwise even slightly, the sound volume decreases to its minimum and a message "VOLUME MIN" appears for two seconds, then the display returns to the original display.

* Check of clock frequency

- To check the frequency of clock used to run the clock of the system, the clock output is available at IC501 pin ③ (CLOCK-OUT) on the MAIN board during MC test mode.
- The frequency is 32.768 kHz.

* Tape function

- When a tape is inserted in Deck B and recording is started, the function is changed to VIDEO automatically. When button is pressed during recording in function, ALC (Automatic Logic Control) is turned on.
- After recording is stopped by pressing button, press button will change the function to TAPE B and rewind Tape B until the recording start position and playback of Tape B is started. If the button is pressed for a pause and pressed again to resume recording during recording time, when tape deck B is rewind, tape deck B will be rewind until the position where the pause is applied.

* AMS Test Mode

- Select the function "TAPE A" or "TAPE B".
- Select Loop or Relay direction mode by pressing the button. Insert a test tape AMS-110A or AMS-120 to selected tape deck.
- Press the button to enter the AMS test mode.
- After the test tape is rewind to the beginning of the tape, the AMS+ is checked, and the mechanism is shut off after detecting the AMS signal twice.
- Then the AMS- is checked and the mechanism is shut off after detecting the AMS signal twice.
- When the check is complete, a message of either OK or NG appears.




* To release MC Test mode.

- To release this mode, press button.
- The cold reset is enforced at the same time.

[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 customer.


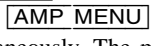
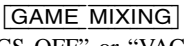
Procedure:

- Press  button,  button, and  button simultaneously.
- The fluorescent indicator tube becomes blank for a while, and the set is reset.

[VACS ON/OFF]

- This mode is used to switch ON and OFF the VACS (Variable Attenuation Control System).


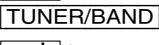

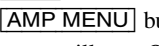

Procedure:

- Press  button to turn the set ON.
- Press  button and  button simultaneously. The message "VACS OFF" or "VACS ON" appears.

[TUNER STEP CHANGE]

- The step interval of AM channels can be toggled between 9 kHz and 10 kHz.



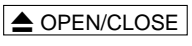



Procedure:

- Press  button to turn the set ON.
- Press  button to select the "AM".
- Press  button to turn the set OFF.
- Press  button and  button simultaneously. The system will turn ON automatically. The message "AM 9k STEP" or "AM 10k STEP" appears and thus the channel step is changed.

[CD SERVICE MODE]

- This mode let you move the CD sled motor freely. Use this mode when you want to clean the optical pick-up.

Procedure:


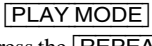
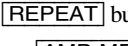

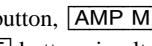
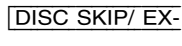

- Press button to turn the set ON.
- Select CD function.
- Press ,  button, and  button simultaneously.
- The CD service mode is activated. The message "SERVICE MODE" appears.
- With the CD in stop status, press  button to move the optical pick-up to outside track, or press  button to move to inside track. The message "SLED OUT" or "SLED IN" appears.
- To release this mode, press  button.

[AGING MODE]

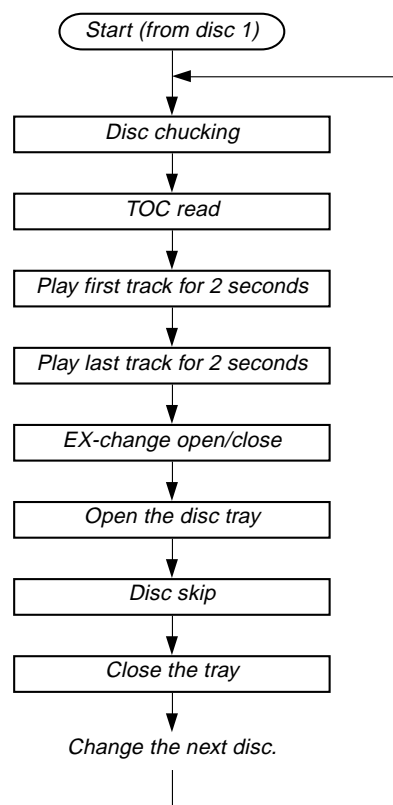
This mode can be used for operation check of CD section.

- If an error occurs, the aging operation would stops and the status is displayed.
- If there are no error occurs, the aging operation would continues repeatedly.

Procedure:

- Press  button to turn the set ON
- Select CD function.
- Load three discs on the disc tray.
- Press  button to select the "ALL DISCS" mode, and press the  button to select "REPEAT OFF" mode.
- Press ,  button, and  button simultaneously.
- Aging operation is started.
- To release this mode, press  button or disconnect the power cord to turn the power OFF.

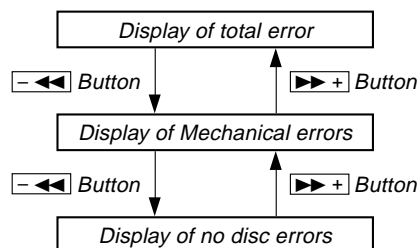
2. Aging mode sequence:



• Display when an error occurred (CD Error Code Mode)

Procedure:

1. Press button, **AMP MENU** button and **DISC 1** button simultaneously to enter the error code display mode.
2. The fluorescent indicator tube displays the number of total error.
3. Each time button or button is pressed, display change as below



4. To clear the error record, operate the cold reset. (Refer to the "MC COLD RESET")
5. To release this mode, press the button or disconnect the power plug to turn the power OFF.

1) Display of total error

Display

EMC**EDC**

EMC**: The number of mechanical errors.

EDC**: The number of no disc errors after chucking the disc.

2) Display of mechanical errors

Display

M*\$%\$%/:&&##00

M*: The number of mechanical error ("00" is latest one)

(Press button or button to display next error)

\$\$: Not used

%%: Loading related error (Second figure is not used)

D: Stop by the problem other than mechanical problem while closing.

E: Stop by the problem other than mechanical problem while opening.

C: Stop by the problem other than mechanical problem while chucking up.

F: Stop by the problem other than mechanical problem while chucking down.

&&: Emerging error

01: Stop while chucking up.

02: Stop while chucking up.

03: Time-out of EX-CHANGE open.

05: Time-out of EX-CHANGE close.

##: Not used

3) Display of no disc errors

Display

D*\$%\$%/:&&##00

D*: The number of mechanical error ("00" is latest one)

(Press button or button to display next error)

\$\$: Error type

01: Focus error

02: GFS error

03: Setup error

%%: Not used

&&:

00: No disc judgment without chucking retry.

01: No disc judgment after chucking retry.

##: The state when judged as no disc

01: Stop

02: Setup

03: TOC reading

04: Access

05: Playback

06: Pause

07: Manual search (Play)

08: Manual search (Pause)

[CD REPEAT 5 LIMIT OFF MODE]

- The number of repeat for CD playback is 5 times when the repeat mode is "REPEAT ALL". This mode enables CD to repeat playback for limitless times.

Procedure:

1. Press button to turn the set ON.
2. Select CD function.
3. Press button, **REPEAT** button and **CD** button simultaneously to enter the CD repeat 5 limit off mode and the fluorescent indicator tube displays "LIMIT OFF".
3. To release this mode, operate the cold reset. (Refer to the "MC COLD RESET")

[CD SHIP MODE (WITH MEMORY CLEAR)]

- 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 button to turn the set ON.
2. Select CD function.
3. Press button, **AMP MENU** button and **GAME** button simultaneously. The set will power off automatically.
4. After the "STANDBY" blinking display finish, a message "LOCK" is displayed on the fluorescent indicator tube and the CD ship mode is set.

[CD SHIP MODE (WITHOUT MEMORY CLEAR)]

- This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.





Procedure:

1. Press  button to turn the set ON.
2. Select CD function.
3. Press  button and  button simultaneously. The set will power off automatically.
4. After the "STANDBY" blinking display finish, a message "LOCK" is displayed on the fluorescent indicator tube and the CD ship mode is set.


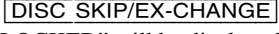
[CD POWER MANAGE]

- This mode let you switch on or off power supply to the BU during TUNER function.
- When CD POWER is set to OFF, the power supply to the BU is cut off during TUNER function. It will increase the time taken to access CD when function change from TUNER to CD but it will improve tuner reception.
- When CD POWER is set to ON, the power supply to the BU is not cut off during TUNER function. It will reduce the time taken to access CD when function change from TUNER to CD but it will decrease tuner reception performance.




Procedure:

1. Press  button to turn the set ON.
2. Select CD function.
3. Press  button to turn the set OFF.
4. Press  button and  button simultaneously. The set will power on automatically.
5. The message "CD POWER ON" or "CD POWER OFF" will be displayed on the fluorescent indicator tube.

[CD TRAY LOCK MODE]

- This mode let you lock the disc trays. When this mode is activated, the disc tray will not open when  button or  button is pressed. The message "LOCKED" will be displayed in the will be displayed on the fluorescent indicator tube.




Procedure:

1. Press  button to turn the set ON.
2. Select CD function.
3. Press  button and  button simultaneously and hold down until "LOCKED" or "UNLOCKED" displayed on the fluorescent indicator tube (around 5 seconds).

[MD/VIDEO SWITCHING]

- This mode let you switch from MD to VIDEO and vice-versa.

Procedure:

1. Press  button to turn the set ON.
2. Select MD function.
3. Press  button and  button simultaneously. The function will change to VIDEO. Press the same buttons again to change from VIDEO to MD.

SECTION 5
MECHANICAL ADJUSTMENTS

Precaution

- 1. Clean the following parts with a denatured alcohol-moistened swab:
record/playback heads pinch rollers
erase head rubber belts
capstan idlers
- 2. Demagnetize the record/playback head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
FWD back tension	CQ-102C	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
REV	CQ-102RC	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	6.96 N • m to 14.02 N • m 71 to 143 g • cm (0.98 – 1.99 oz • inch)
FWD tension	CQ-403A	9.80 N • m 100 g or more (3.53 oz or more)
REV tension	CQ-403R	9.80 N • m 100 g or more (3.53 oz or more)

SECTION 6
ELECTRICAL ADJUSTMENTS

DECK SECTION	0 dB=0.775 V
--------------	--------------

- 1. Demagnetize the record/playback head with a head demagnetizer.
- 2. Do not use a magnetized screwdriver for the adjustments.
- 3. After the adjustments, apply suitable locking compound to the parts adjust.
- 4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- 5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
- 6. The adjustments should be performed for both L-CH and R-CH.
- 7. Switches and controls should be set as follows unless otherwise specified.

• Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment

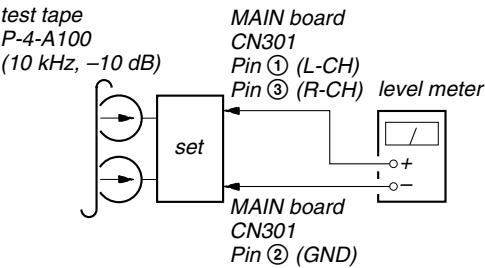
RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

DECK A	DECK B
--------	--------

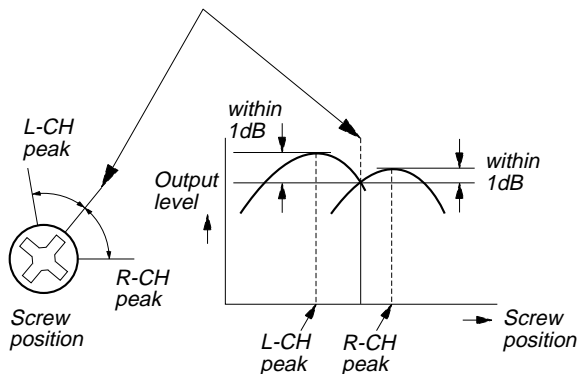
Note: Perform this adjustments for both decks

Procedure:

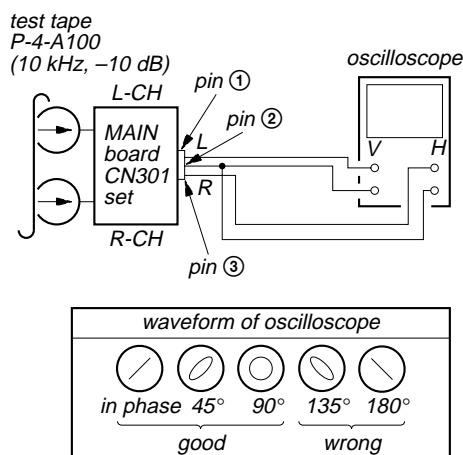
- 1. Mode: Playback



- Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.

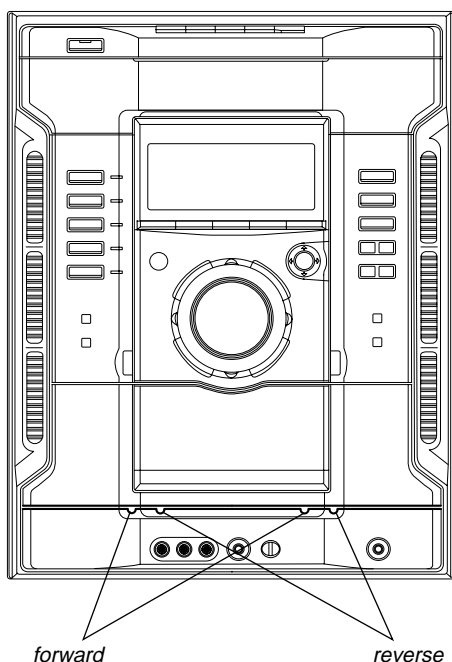


- Mode: Playback



- After the adjustments, apply suitable locking compound to the pots adjusted.

Adjustment Location: Playback Head (Deck A).
Record/Playback/Erase Head (Deck B).

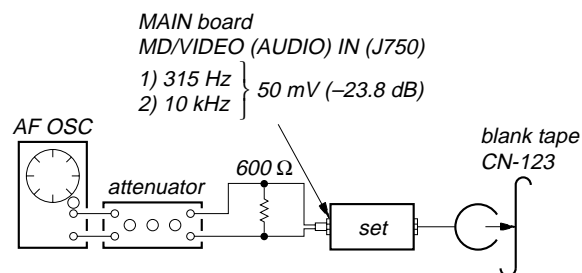


REC BIAS ADJUSTMENT DECK B

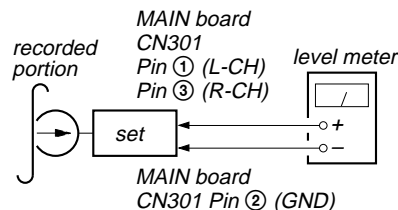
Procedure:

In the MC test mode, the "REC memory mode" is convenient for this adjustment. In the "REC memory mode", when the REC starts the input signal FUNCTION is switched to VIDEO automatically. When the REC stops, the tape returns near to the recording start position.

- Press MD (VIDEO) button to select VIDEO. (This step is not necessary if the above test mode has already been set)
- Insert a tape into deck B.
- After press REC PAUSE/START button, press REC PAUSE/START button, then recording start.
- Mode: Record



- Mode: Playback



- Confirm the playback signal recorded in step 3 becomes adjustable level as follows.

If these levels are not adjustable level, adjust the RV304 (L-CH) and RV354 (R-CH) on the MAIN board to repeat steps 4 and 5.

Adjustable level: Playback output of 315 Hz to playback output of 10 kHz: ± 1.0 dB

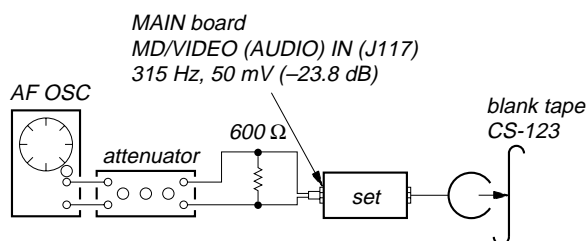
Adjustment Location: MAIN board

REC LEVEL ADJUSTMENT DECK B

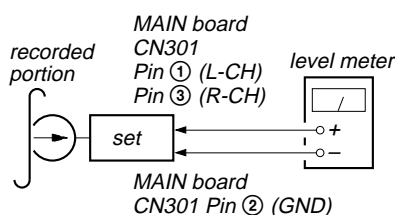
Procedure:

In the MC test mode, the "REC memory mode" is convenient for this adjustment. In the "REC memory mode", when the REC starts the input signal FUNCTION is switched to VIDEO automatically. When the REC stops, the tape returns near to the recording start position.

1. Press MD (VIDEO) button to select VIDEO. (This step is not necessary if the above test mode has already been set)
2. Insert a tape into deck B.
3. After press REC PAUSE/START button, press REC PAUSE/START button, then recording start.
4. Mode: Record



5. Mode: Playback



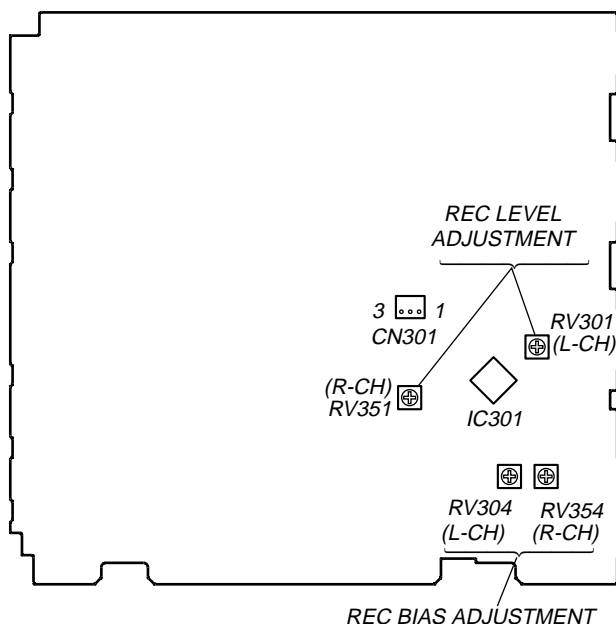
6. Confirm the play back signal recorded in step 3 becomes adjustable level as follows.
If these levels are not adjustable level, adjust the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 4 and 5.

Adjustable level:

CN301 PB level: 47.2 to 53.0 mV (-24.3 to -23.3 dB)

Adjustment Location: MAIN board

– MAIN BOARD (Component Side) –



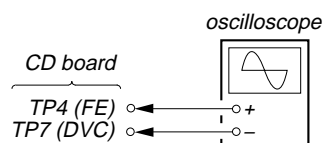
CD SECTION

Note:

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

S-curve Check

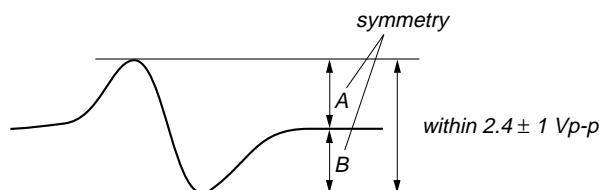
Connection:



Procedure:

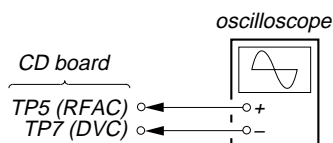
1. Connect an oscilloscope to test point TP4 (FE) and TP7 (DVC) on the CD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in and turned power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out)
4. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2.4 ± 1 Vp-p.

S-curve waveform



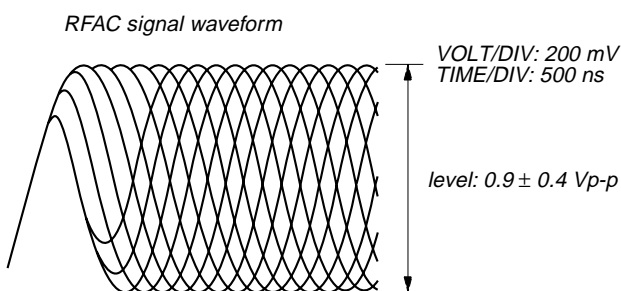
- Note:**
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
 - Take sweep time as long as possible and light up the brightness to obtain best waveform.

Checking Location: CD board (SIDE B)
(See page 24.)

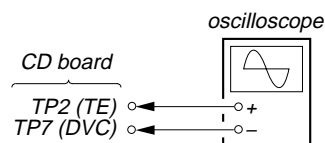
RFAC Level Check**Connection:****Procedure:**

1. Connect an oscilloscope to test point TP5 (RFAC) and TP7 (DVC) on the CD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFAC signal level is correct or not.

Note: A clear RFAC signal waveform means that the shape “ $\hat{\vee}$ ” can be clearly distinguished at the center of the waveform.

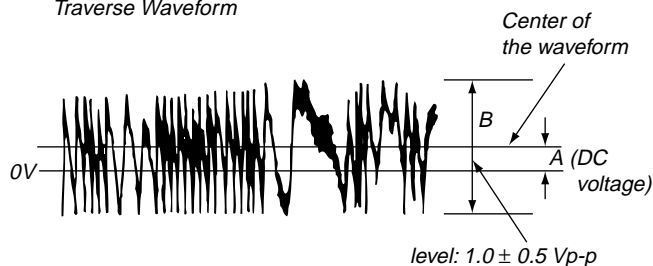


Checking Location: CD board (SIDE B)
(See page 24.)

E-F Balance Check**Connection:****Procedure:**

1. Connect an oscilloscope to test point TP2 (TE) and TP7 (DVC) on the CD board.
2. Turn the power on.
3. Select the function “CD”.
4. Press three buttons of [ENTER], [▶▶], and [SURROUND MODE] simultaneously to set the CD service mode.
5. Put the disc (YEDS-18) in to playback the number five track.
6. Press the [◀◀] button. The message “TRAVERSE” is displayed. (The tracking servo and the sledding servo are turned OFF)
7. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform. Confirm the following :
 $A/B \times 100 = \text{less than } \pm 22\%$

Traverse Waveform

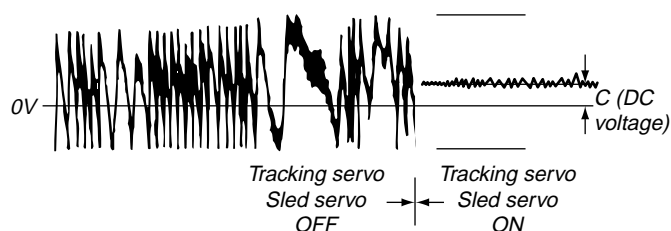


8. Press the [◀◀] button. The message “TRAVERSE” is displayed. (The tracking servo and sledding servo are turned ON)
Confirm the C (DC voltage) is almost equal to the A (DC voltage) is step 5.
9. To exit from this mode, perform as follows.
 - 1) Move the optical pick-up to the most inside track.
 - 2) Press three buttons of [■], [CLEAR], and [DISPLAY] simultaneously. (cold reset)

Notes:

- Always move the optical pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

Traverse Waveform

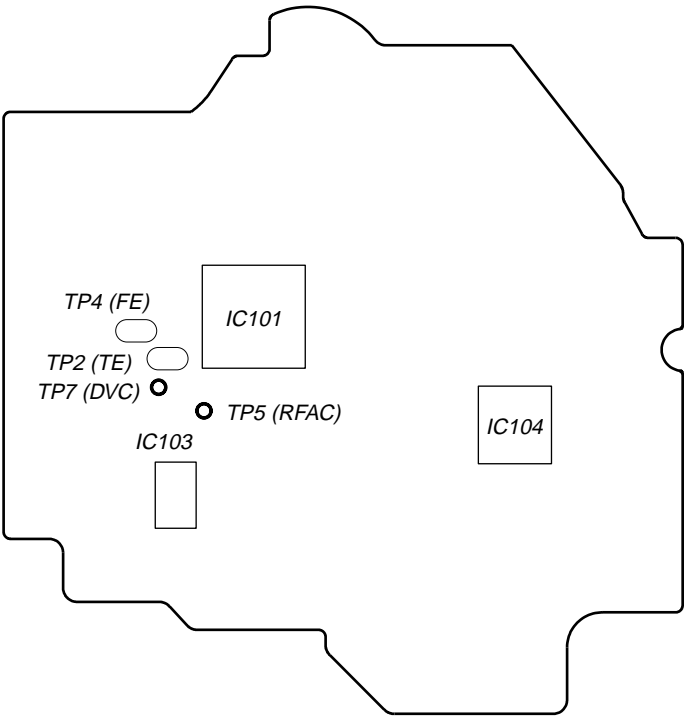


Checking Location: CD board (SIDE B) (See page 24.)

HCD-GN600




Checking Location:

– CD BOARD (SIDE B) –

















SECTION 7 DIAGRAMS

Note on Schematic Diagram:



- All capacitors are in μF unless otherwise noted. pF: μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
-  : internal component.
-  : nonflammable resistor.
-  : fusible resistor.

Note:

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

-  : panel designation.
-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- CD board section
no mark: CD PLAY
- Other board section
no mark: TUNER (FM/AM)
- (): CD PLAY
- < >: TAPE PLAY
- []: TAPE REC
- Voltages are taken with a VOM (Input impedance 10 M Ω).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
-  : TUNER (FM/AM)
-  : TAPE PALY (DECK A)
-  : TAPE PALY (DECK B)
-  : RECORD
-  : CD PALY (ANALOG OUT)
-  : CD PALY (DIGITAL OUT)
-  : MD/VIDEO (AUDIO) IN
-  : GAME IN (AUDIO)
-  : GAME IN (VIDEO)
-  : MIC INPUT

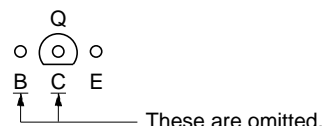
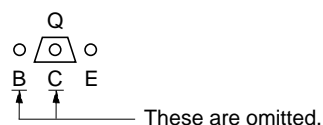
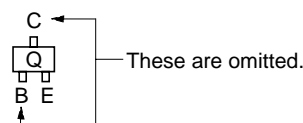
Note on Printed Wiring Boards:

-  : parts extracted from the component side.
-  : Pattern from the side which enables seeing.
(The other layers' Patterns are not indicated.)

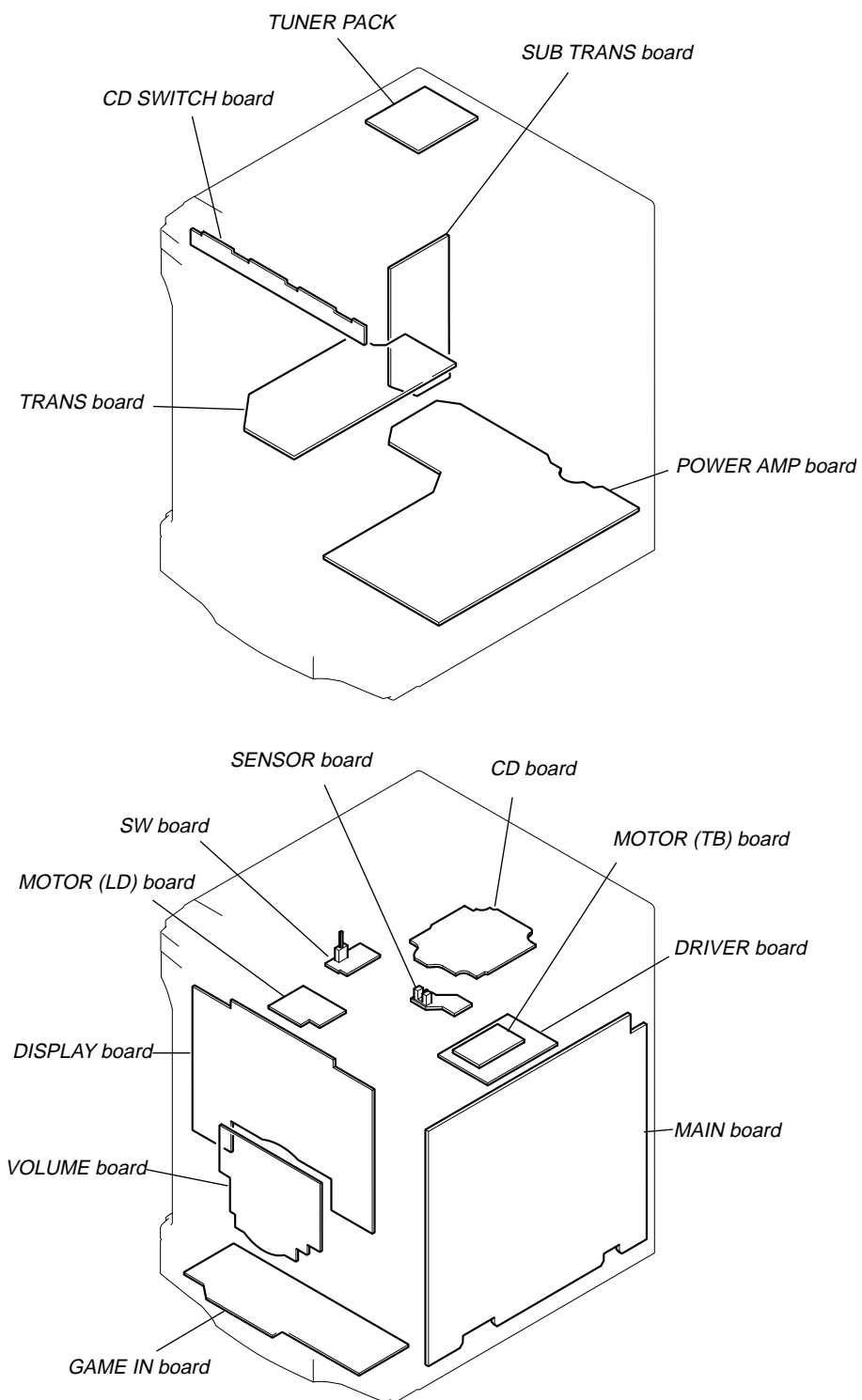
Caution:

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

- Indication of transistor.

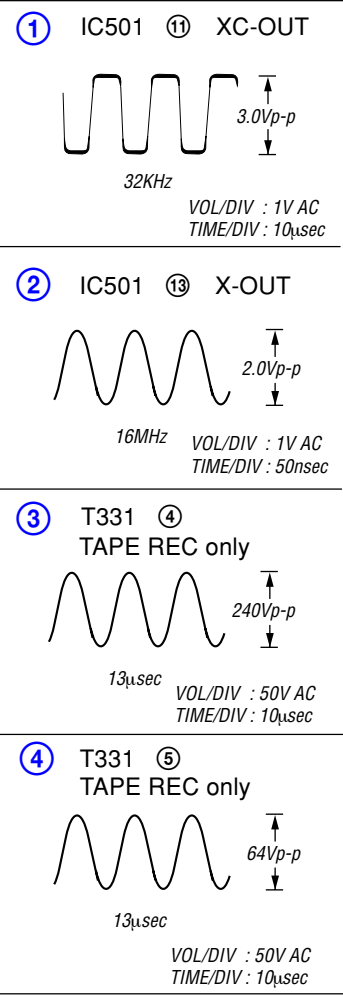


7-1. CIRCUIT BOARD LOCATION

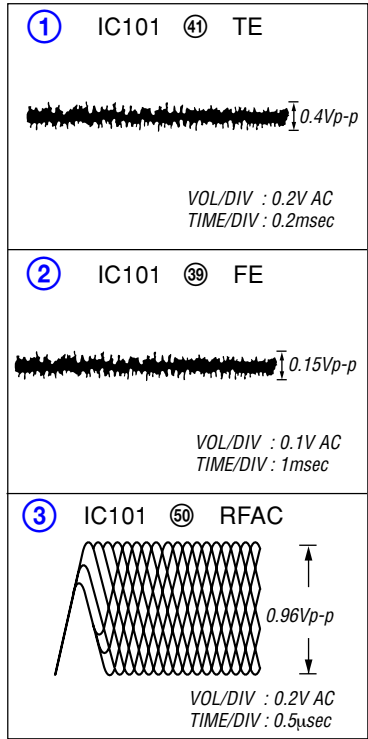


● WAVEFORMS

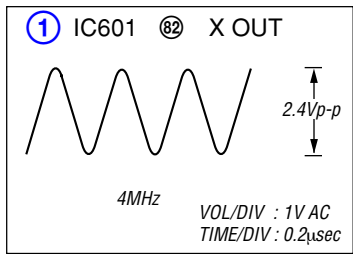
– MAIN BOARD –



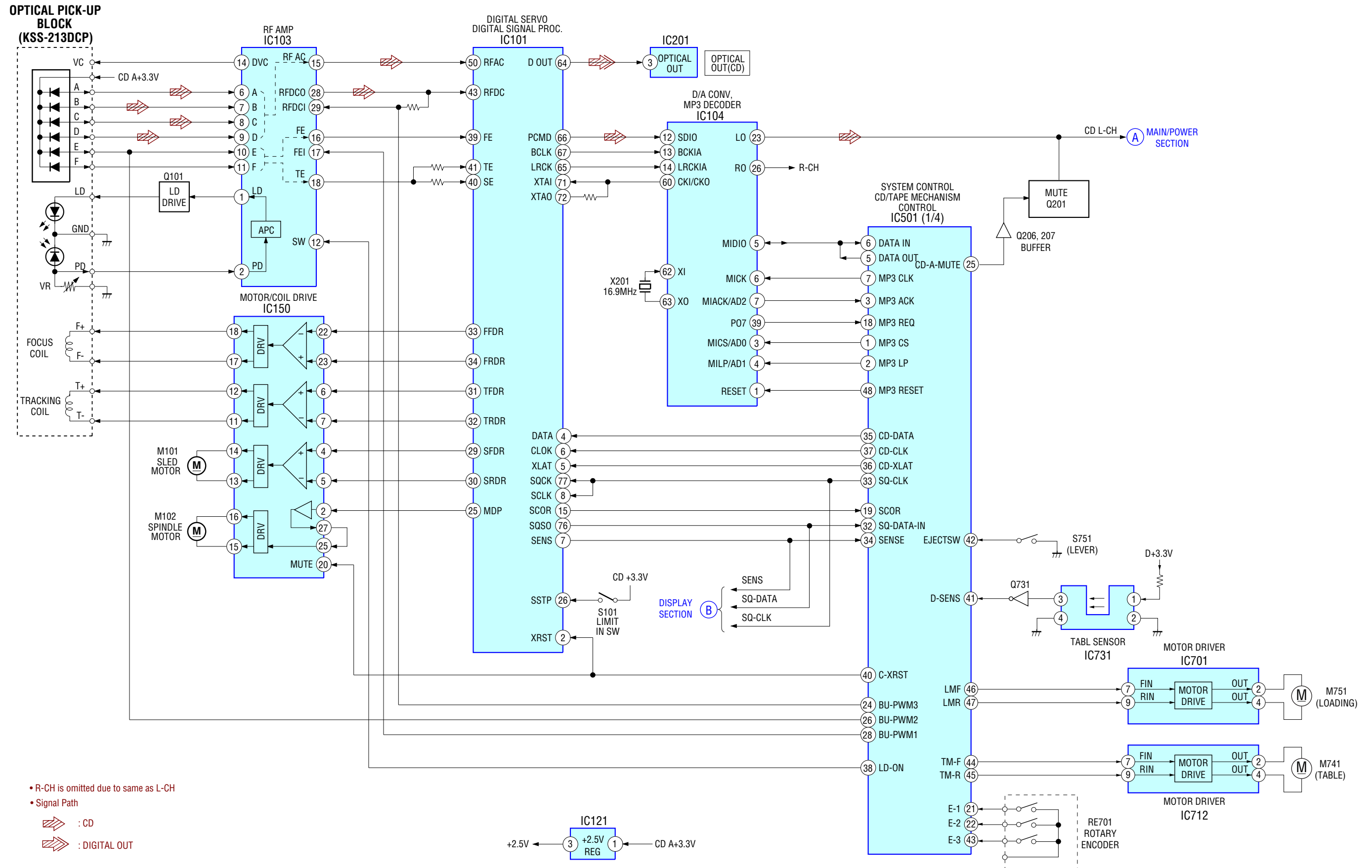
– CD BOARD –



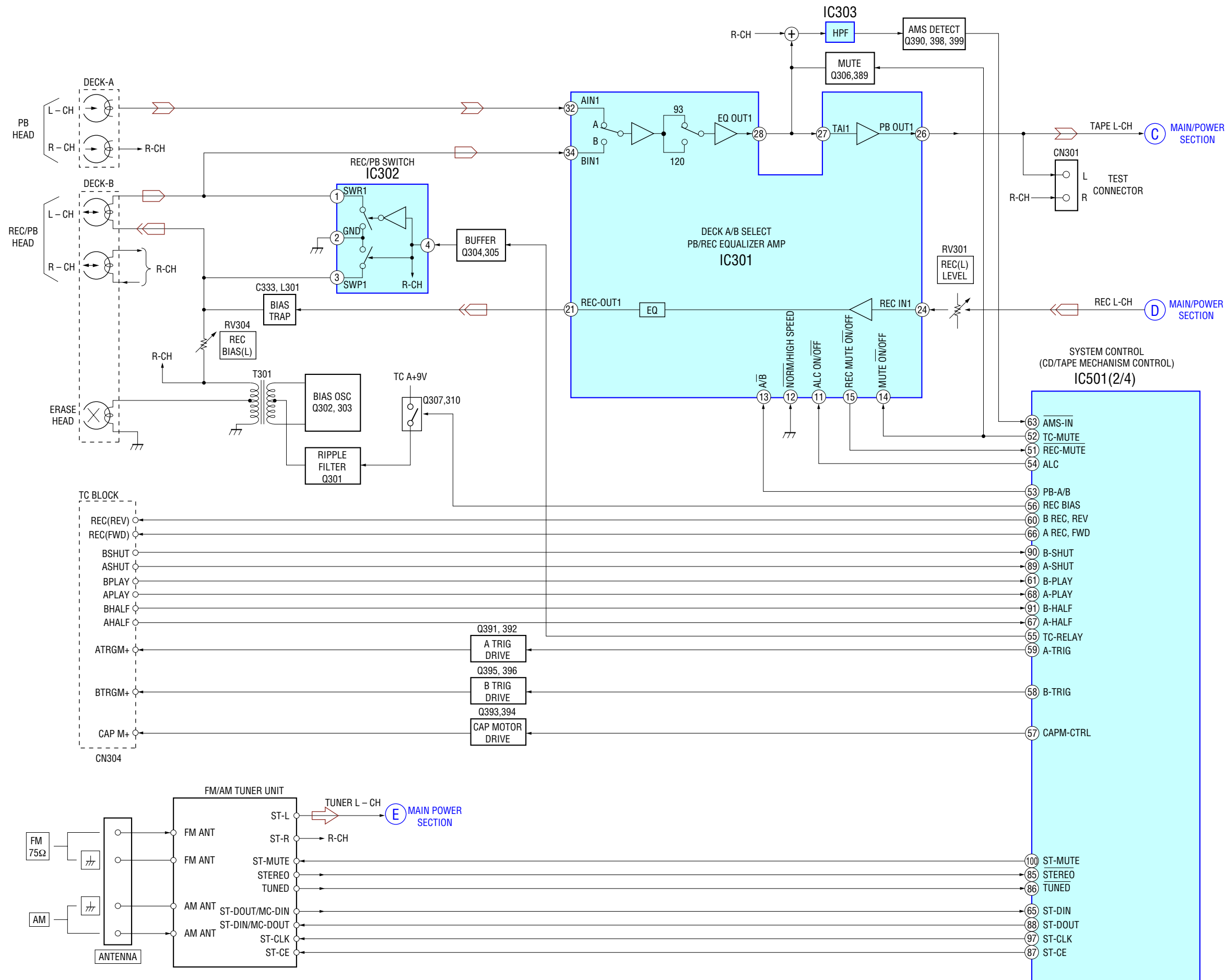
– DISPLAY BOARD –



7-2. BLOCK DIAGRAM – CD SERVO Section –



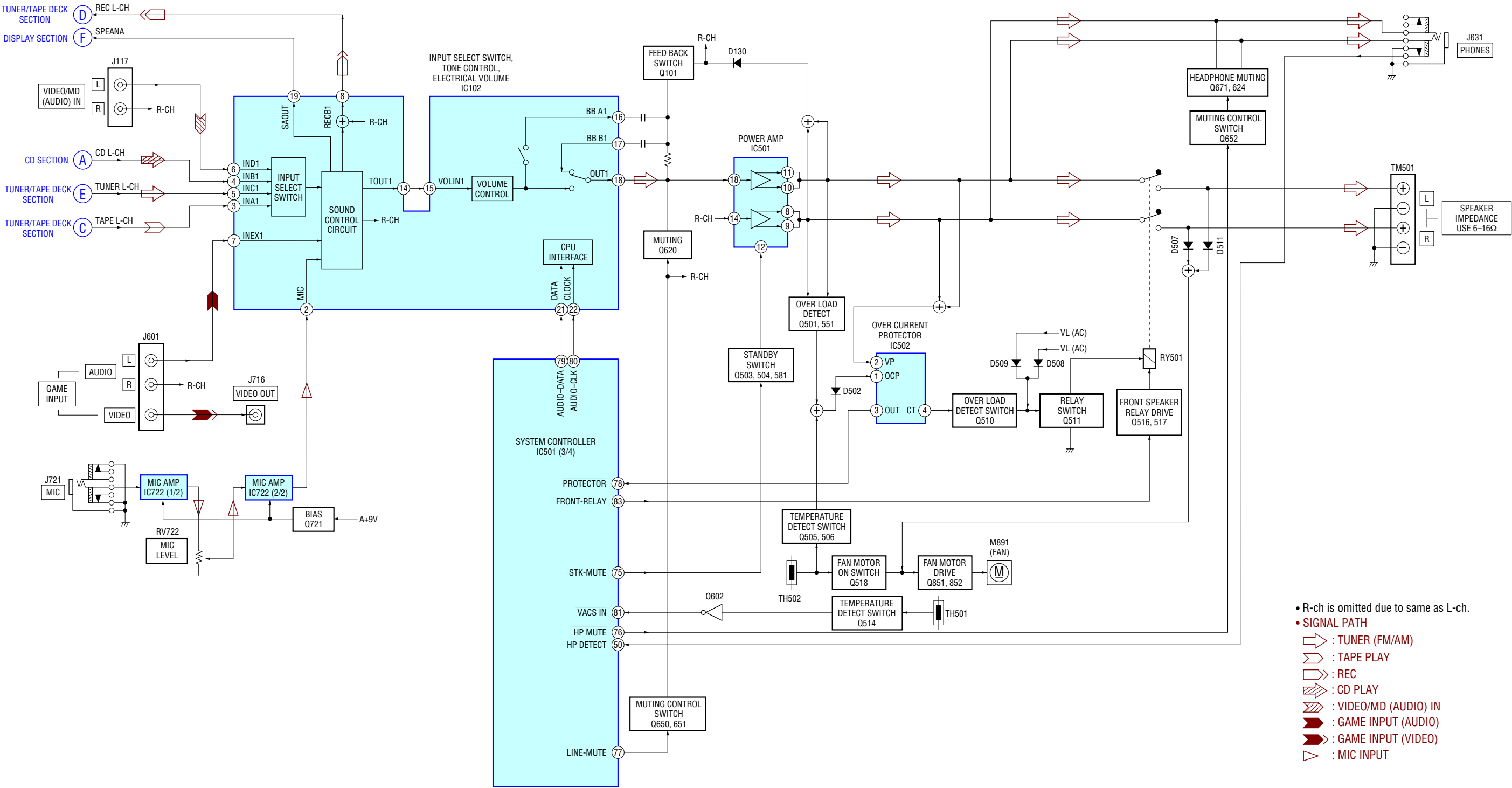
– TUNER/TAPE DECK Section –



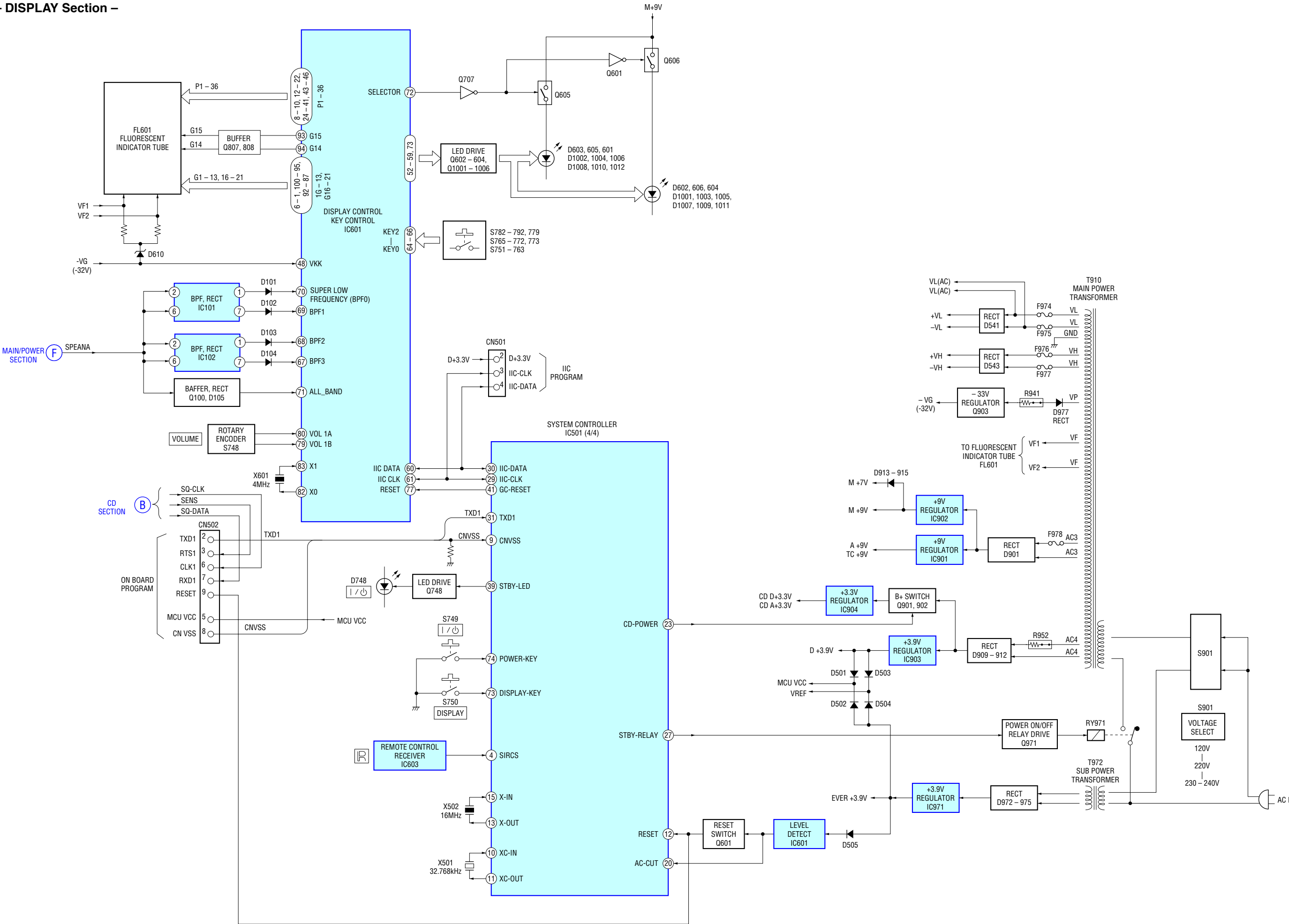
- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
 - ➡ : TUNER (FM/AM)
 - : PLAYBACK (DECK A)
 - ➦ : PLAYBACK (DECK B)
 - : RECORD

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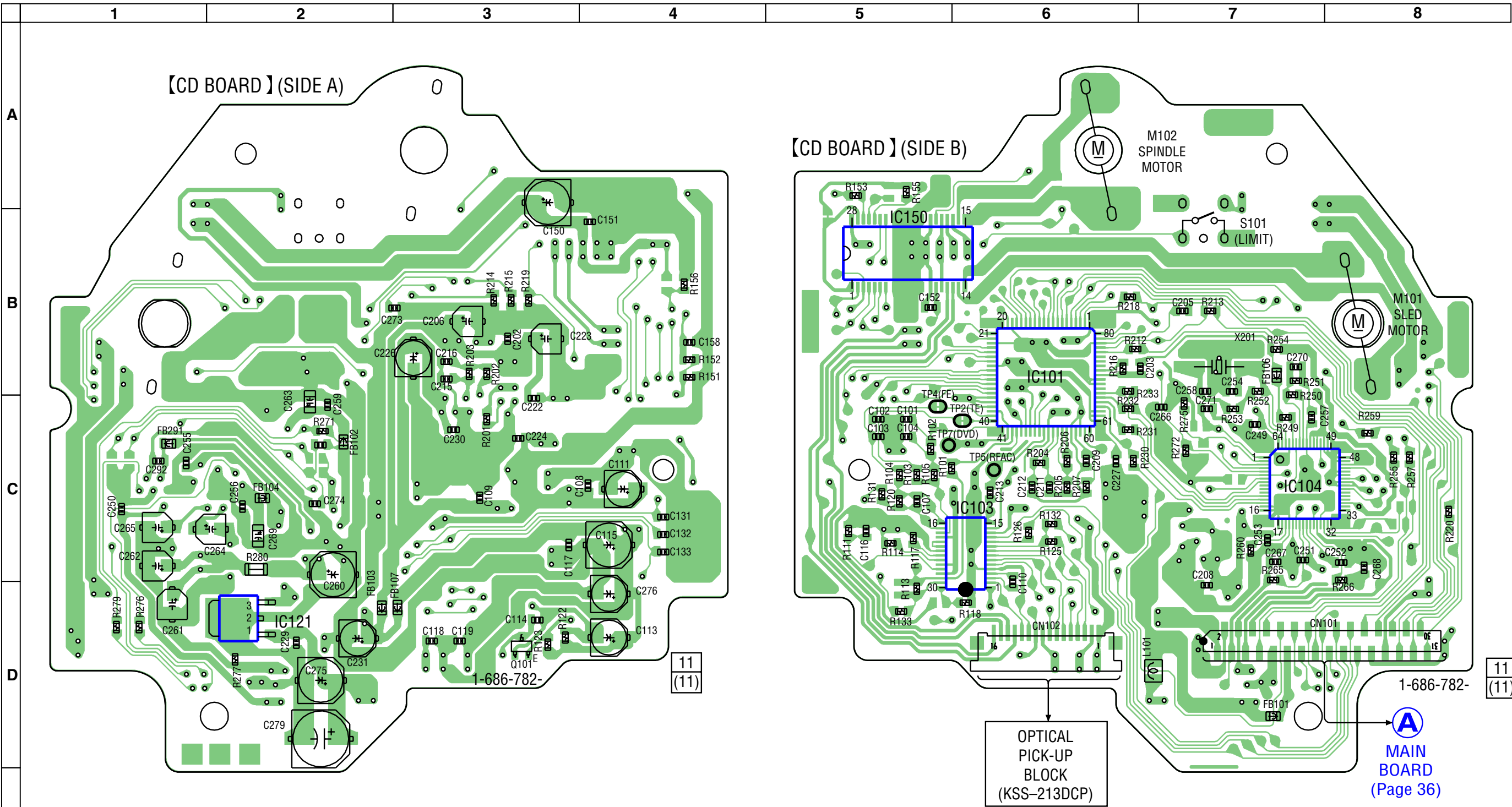
– MAIN/POWER Section –



– DISPLAY Section –



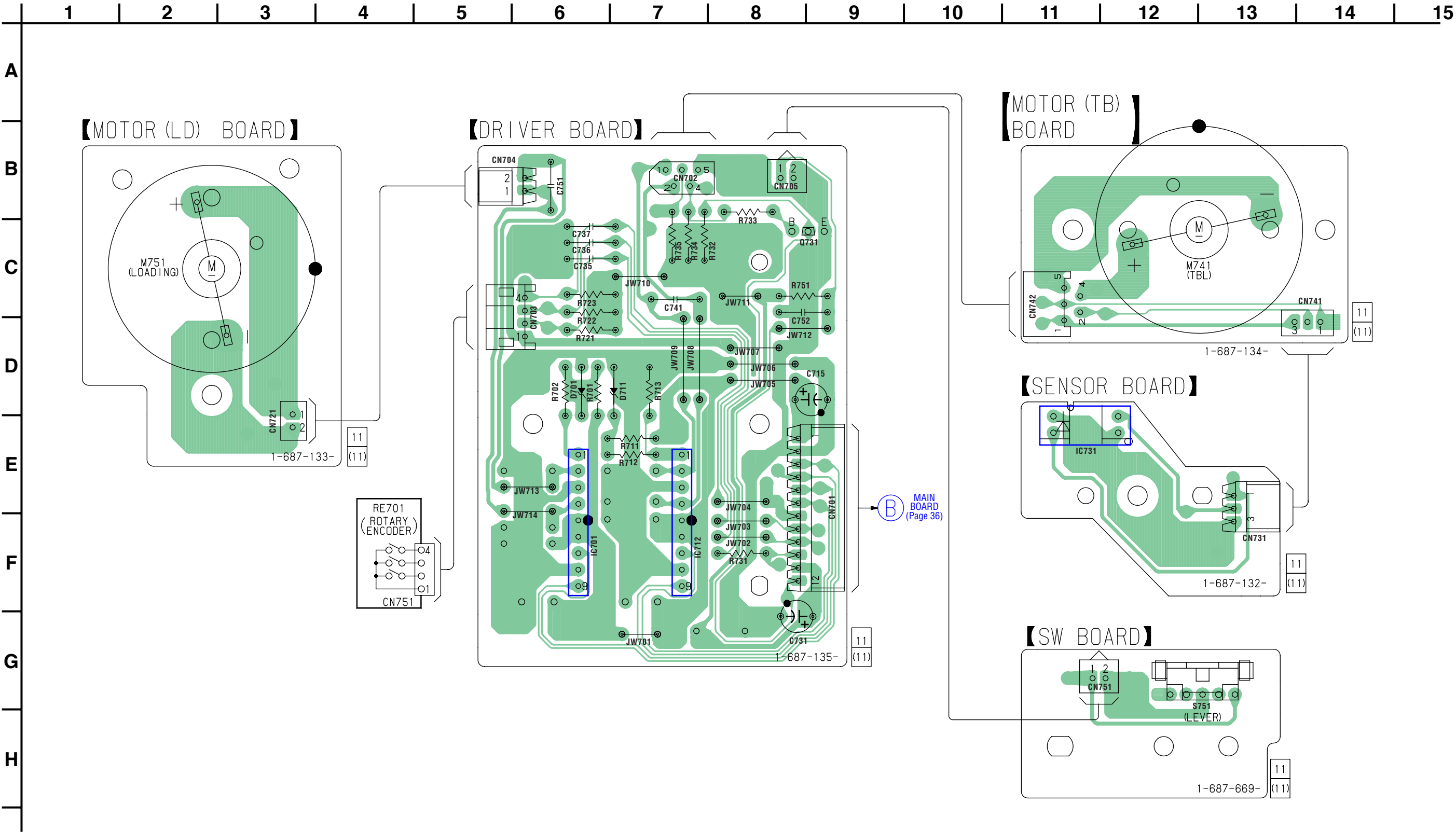
7-3. PRINTED WIRING BOARD – CD Board – • See page 26 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
IC101	B-6
IC103	C-6
IC104	C-7
IC121	D-2
IC150	B-5
Q101	D-3

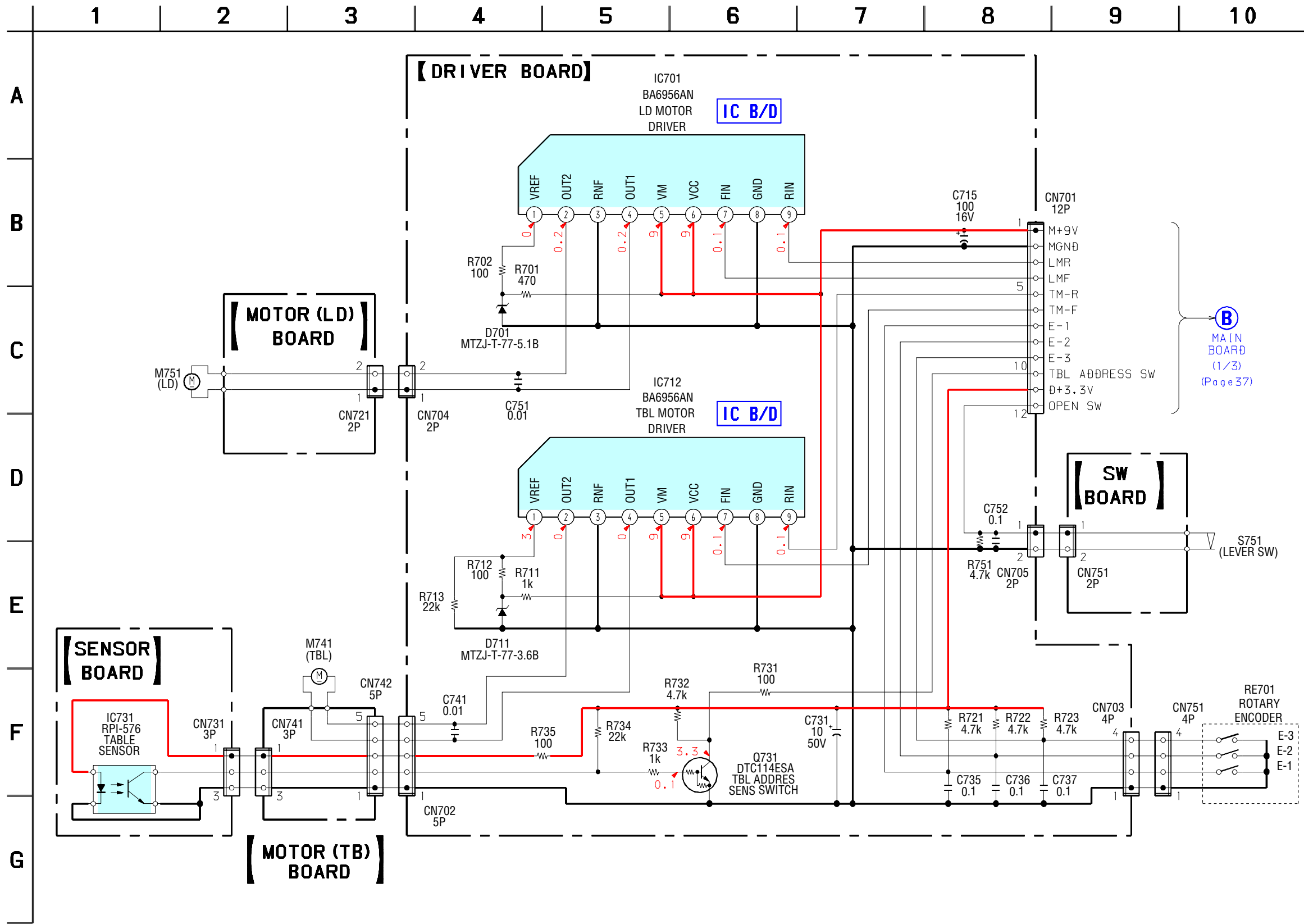
7-5. PRINTED WIRING BOARDS — CD MECHANISM Board — • Refer to page 26 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
D701	D-6
D711	D-7
IC701	F-6
IC712	F-7
IC731	E-11
Q731	C-9

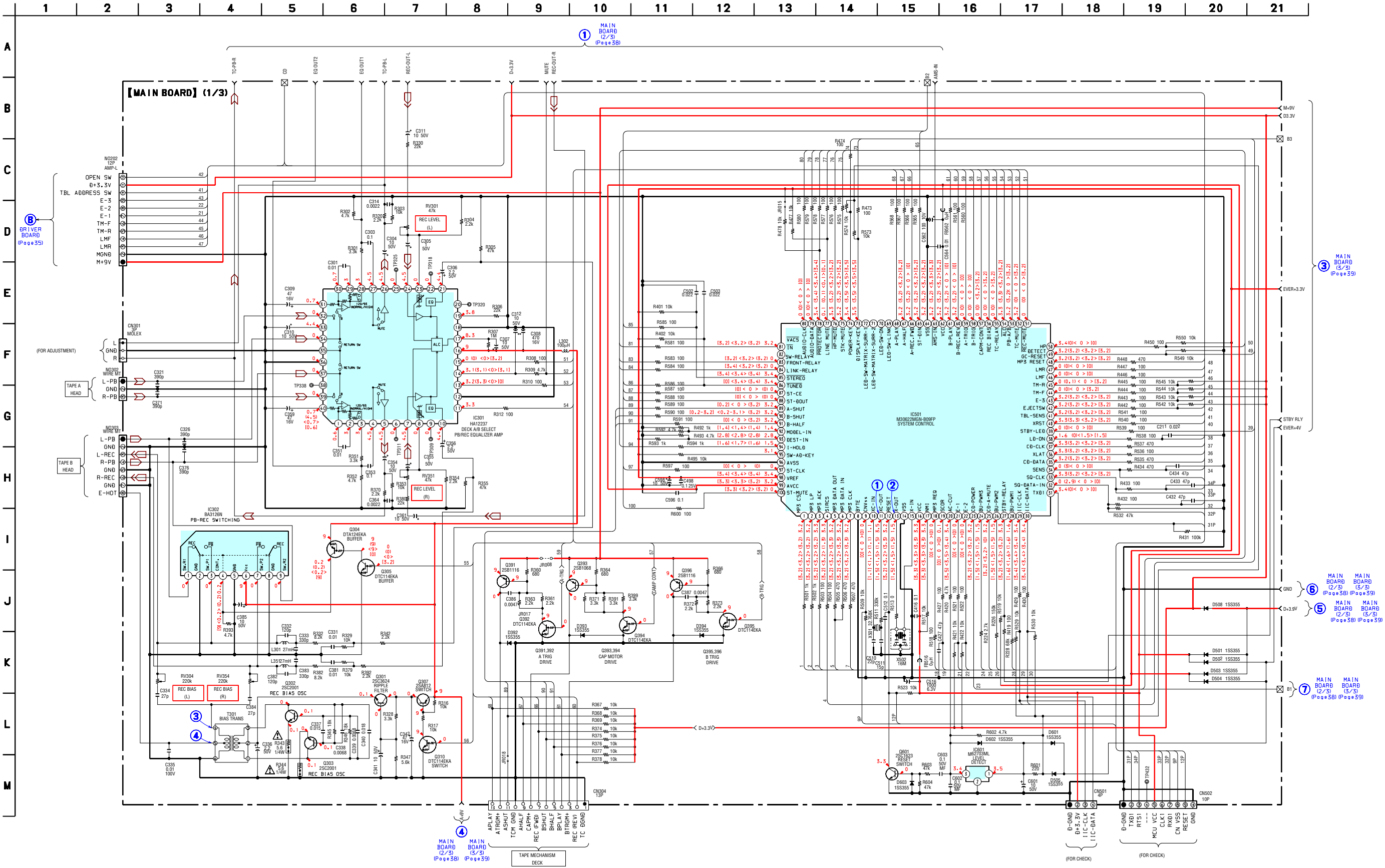
7-6. SCHEMATIC DIAGRAM – CD MECHANISM Board –





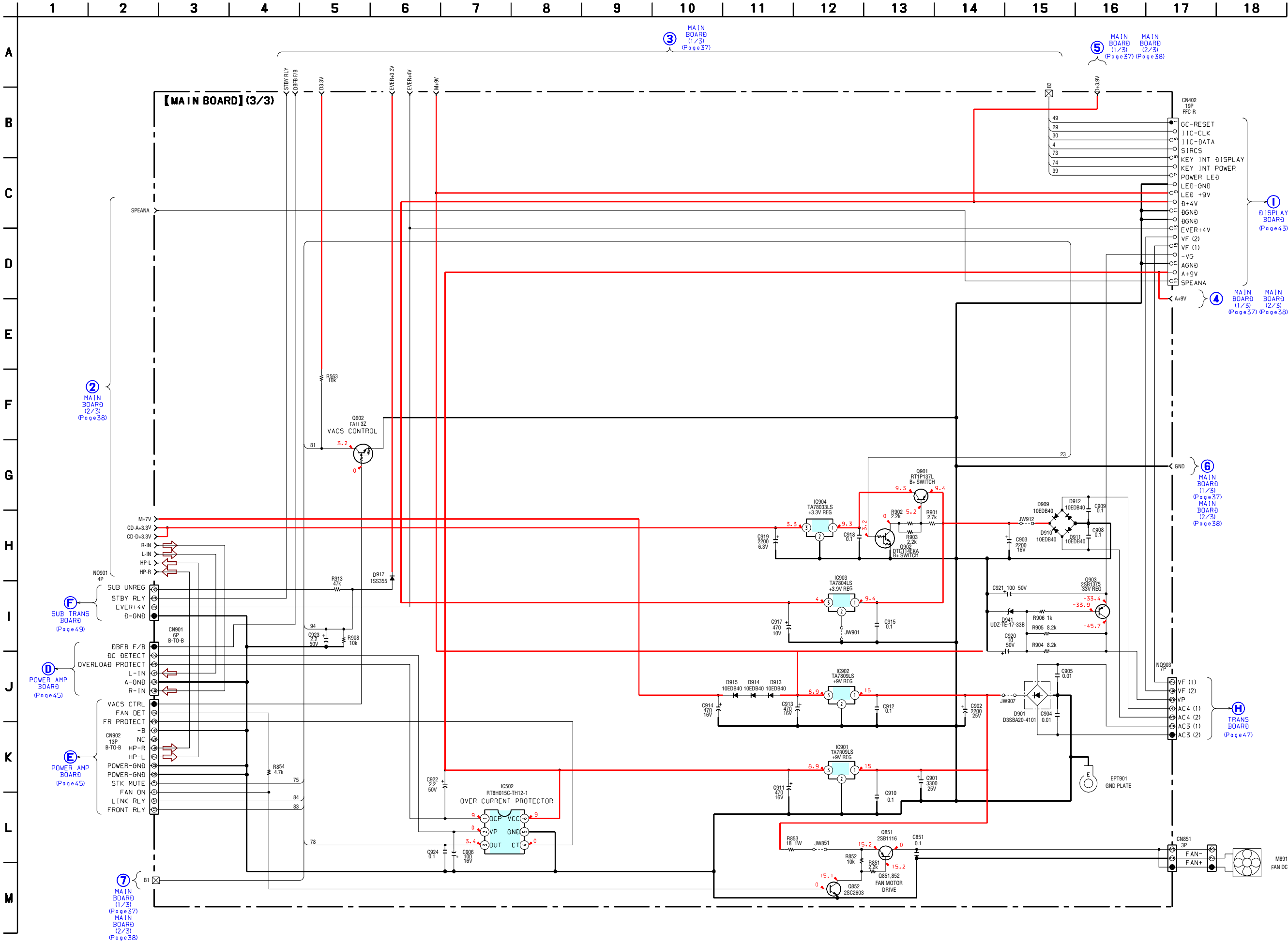
Ref. No.	Location	Ref. No.	Location
D130	F-9	Q101	D-9
D392	E-4	Q151	E-9
D393	F-4	Q201	D-7
D394	F-5	Q206	D-7
D501	B-2	Q207	D-8
D502	B-2	Q251	D-8
D503	B-2	Q301	I-5
D504	B-2	Q302	I-5
D505	B-5	Q303	I-5
D508	B-2	Q304	I-4
D509	B-2	Q305	I-4
D601	B-5	Q306	F-3
D602	B-6	Q307	I-5
D603	C-5	Q310	I-5
D901	I-7	Q389	F-3
D909	H-7	Q390	F-5
D910	H-7	Q391	E-4
D911	H-7	Q392	E-3
D912	H-7	Q393	E-5
D913	G-7	Q394	F-5
D914	G-7	Q395	F-5
D915	G-7	Q396	F-5
D917	D-6	Q398	F-5
D941	H-6	Q399	F-5
		Q601	B-5
IC102	E-10	Q602	D-3
IC201	B-12	Q620	F-11
IC301	G-4	Q621	I-2
IC302	I-4	Q650	F-11
IC303	F-4	Q651	F-11
IC501	C-4	Q652	J-2
IC502	J-9	Q670	F-11
IC601	C-6	Q671	I-2
IC901	H-8	Q851	G-11
IC902	H-8	Q852	G-11
IC903	H-7	Q901	D-9
IC904	C-9	Q902	D-8
		Q903	H-7

7-8. SCHEMATIC DIAGRAM – MAIN Board (1/3) – • See page 51 for Pin Function Description.

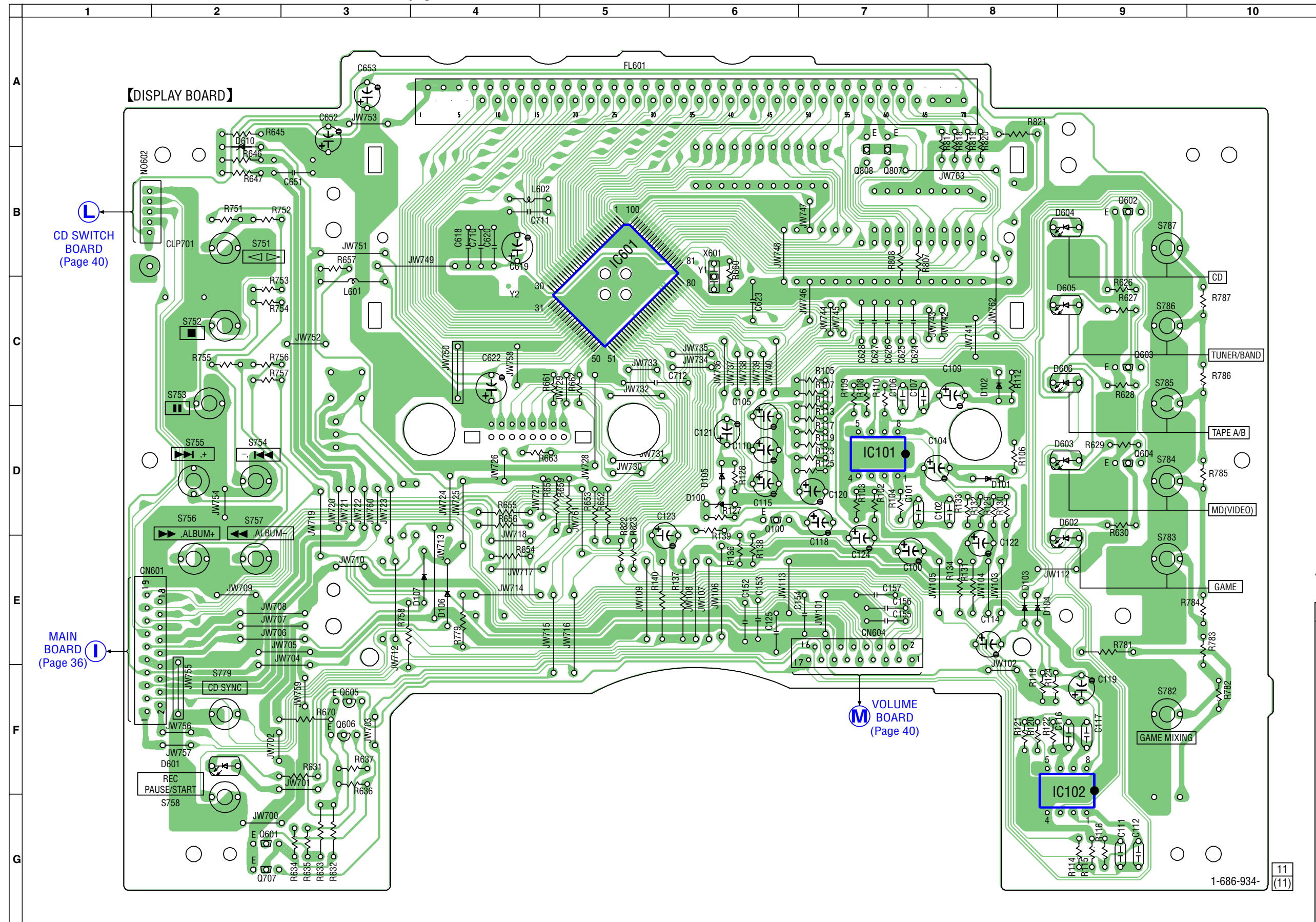




7-10. SCHEMATIC DIAGRAM – MAIN (3/3) Boards –

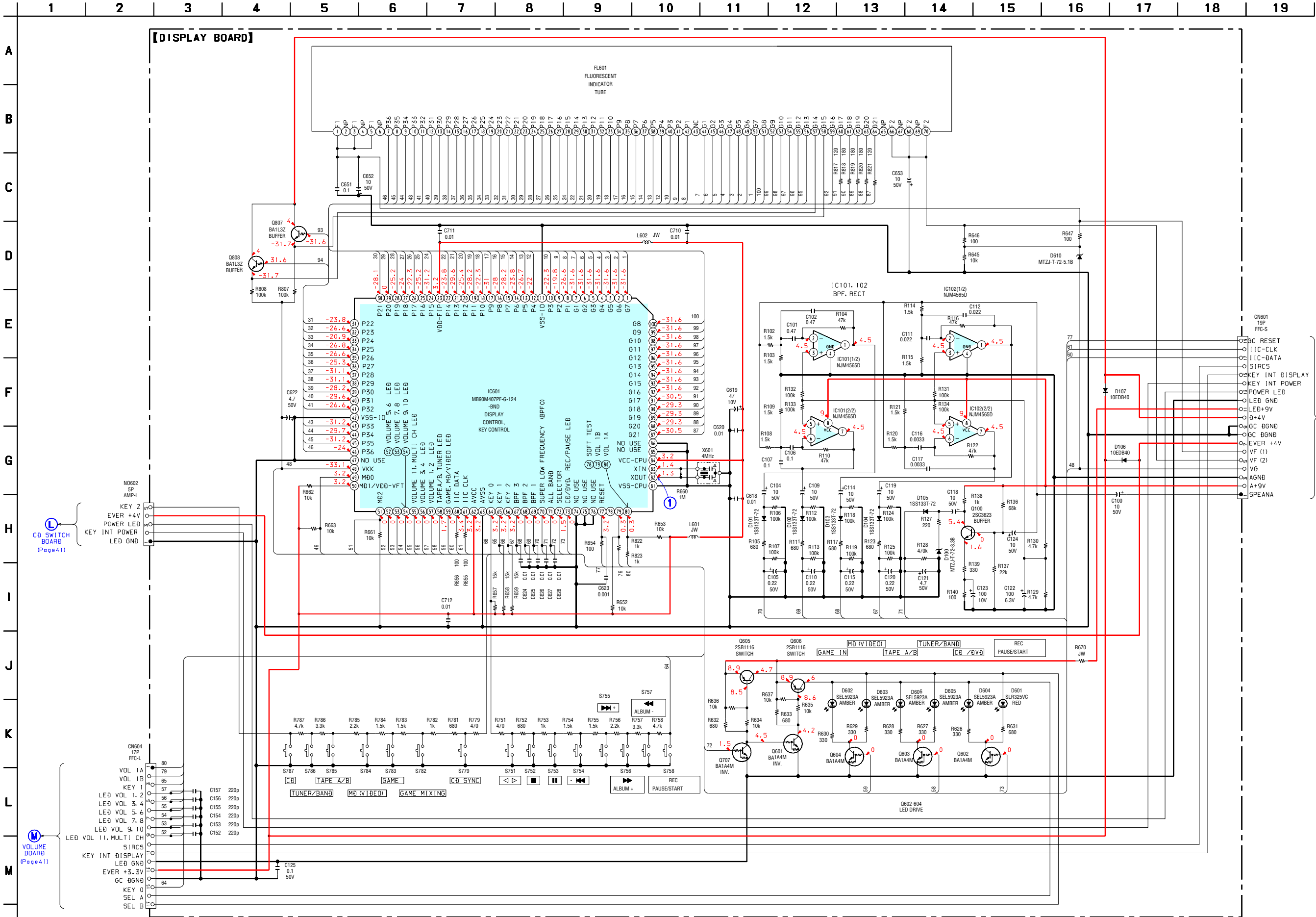






Semiconductor Location	
Ref. No.	Location
D100	D-6
D101	D-8
D102	C-8
D103	E-8
D104	E-8
D105	D-6
D106	E-4
D107	E-4
D601	F-2
D602	E-9
D603	D-9
D604	B-9
D605	C-9
D606	C-9
D610	A-2
IC101	D-7
IC102	F-9
IC601	B-5
Q100	D-6
Q601	G-2
Q602	B-9
Q603	C-9
Q604	D-9
Q605	F-2
Q606	F-2
Q707	G-2
Q807	B-7
Q808	B-7

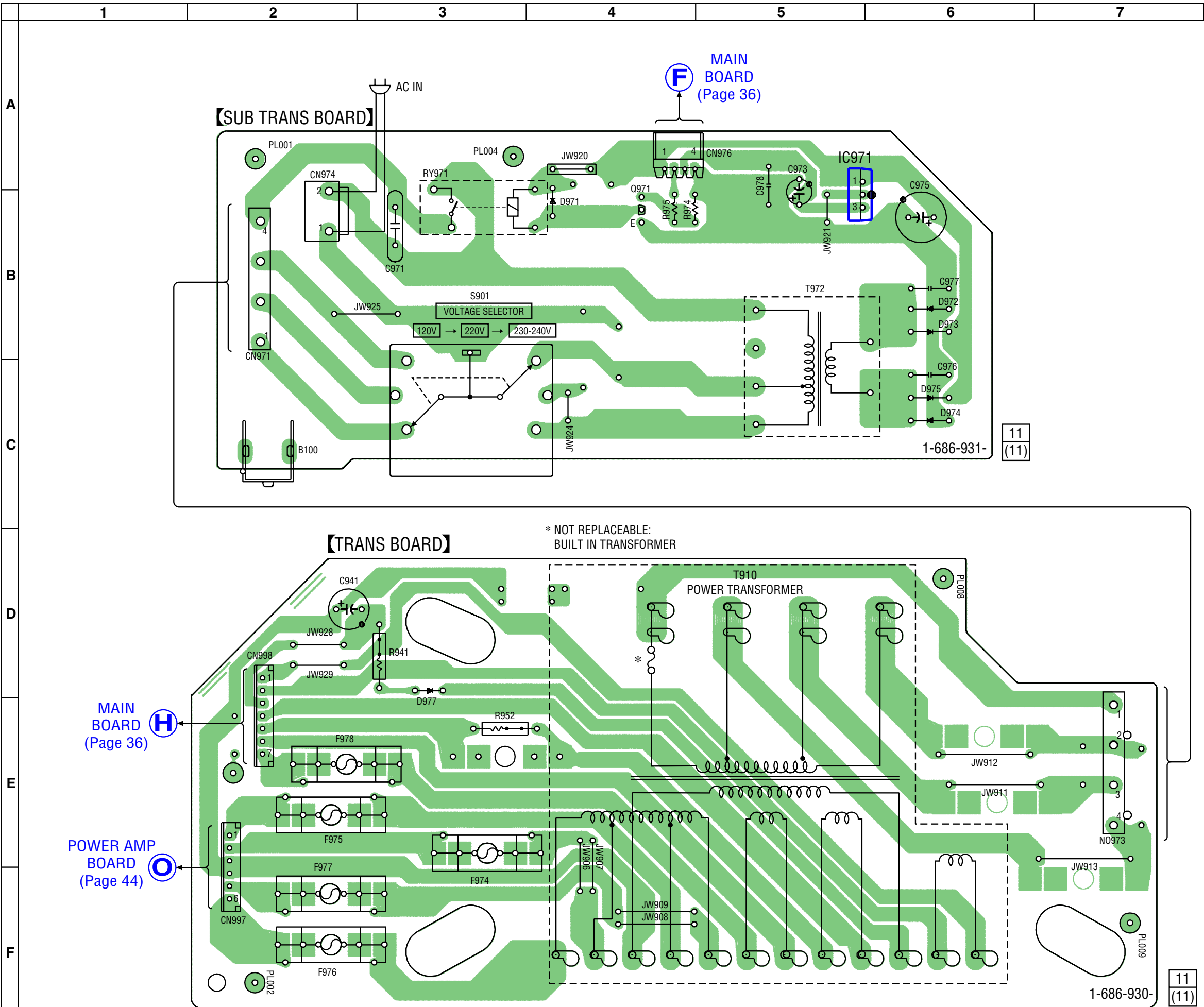
7-14. SCHEMATIC DIAGRAM – DISPLAY Board – • See page 53 for Pin Function Description.





Ref. No.	Location
D501	E-3
D502	D-2
D503	D-4
D504	D-5
D506	C-7
D507	B-5
D508	H-2
D509	H-2
D511	B-5
D541	G-3
D543	H-4
D551	E-3
D581	F-2
IC501	D-4
Q501	E-4
Q503	G-2
Q504	F-2
Q505	B-2
Q506	B-2
Q510	F-6
Q511	F-6
Q514	B-2
Q516	H-5
Q517	H-5
Q518	B-2
Q551	E-4
Q581	F-2

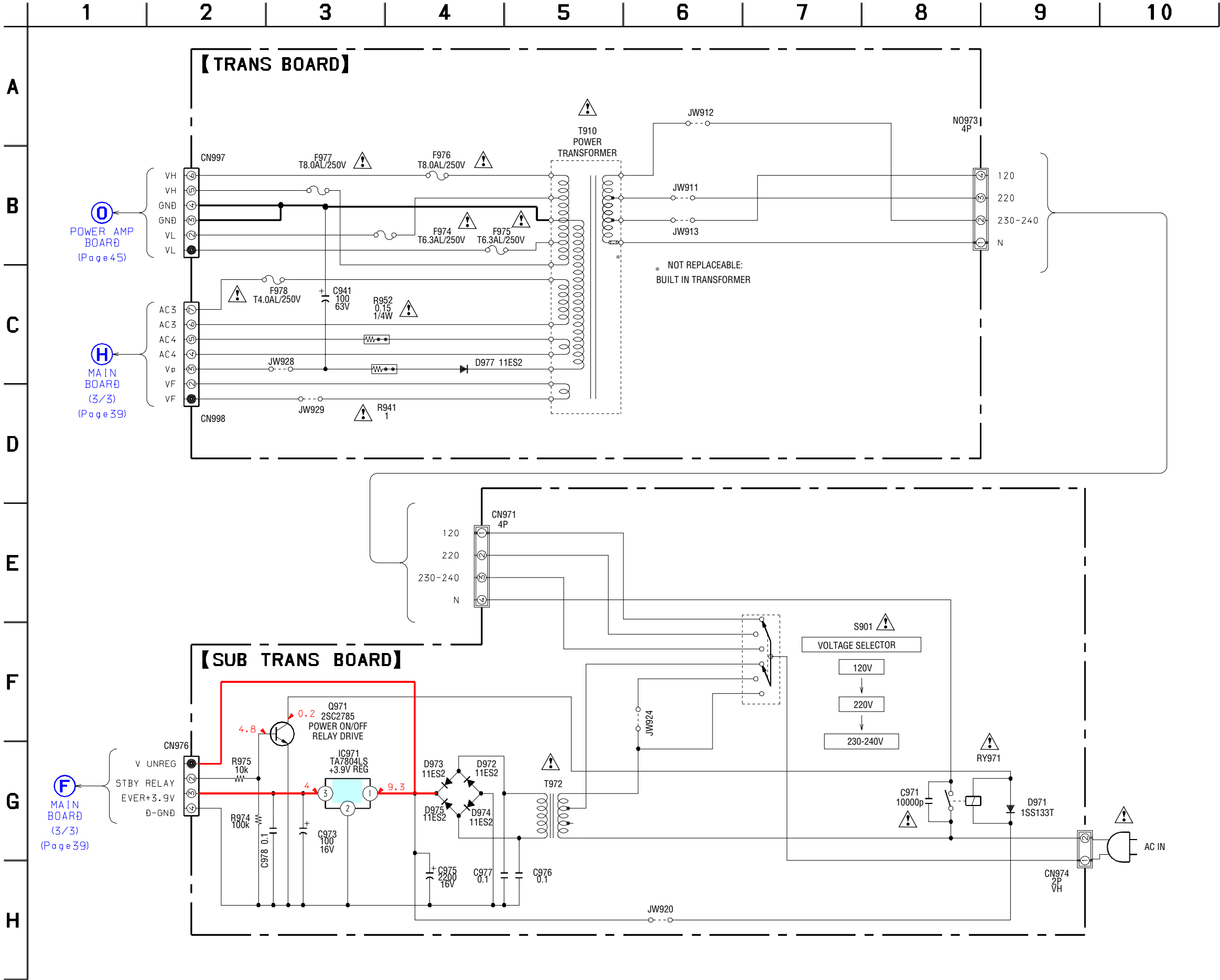
7-17. PRINTED WIRING BOARDS – TRANS Board – • See page 26 for Circuit Boards Location.



• Semiconductor Location

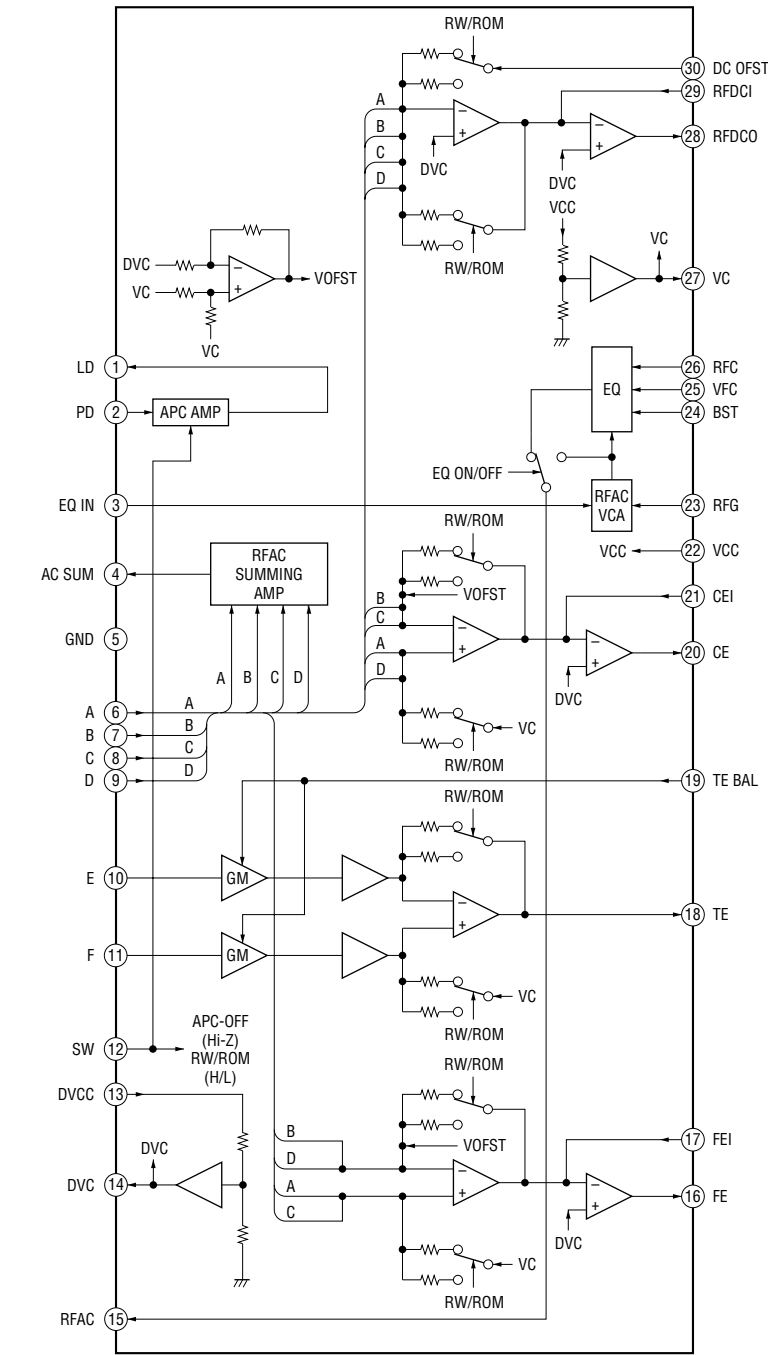
Ref. No.	Location
D971	B-4
D972	B-6
D973	B-6
D974	C-6
D975	C-6
D977	D-3
IC971	A-5
Q971	B-4

7-18. SCHEMATIC DIAGRAM – TRANS Board –

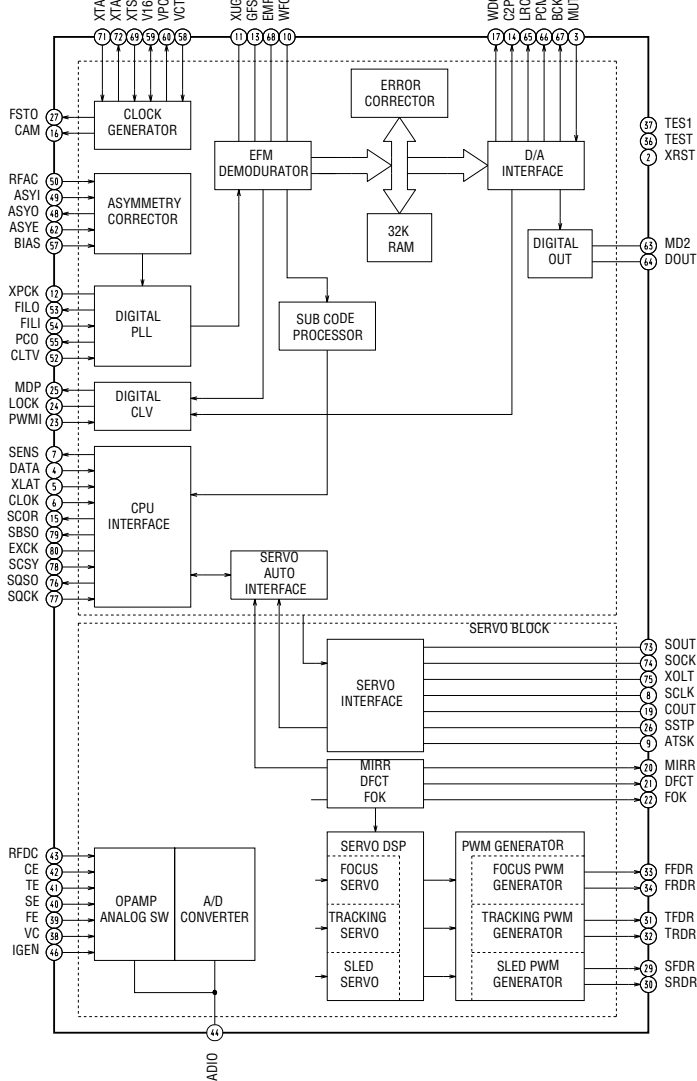


7-19. IC Block Diagrams

IC103 CXA2647N-T4 (CD BOARD)

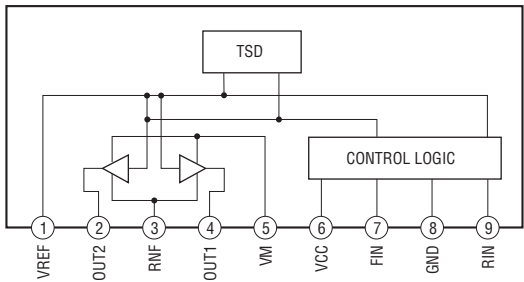


IC101 CXD3068Q (CD BOARD)

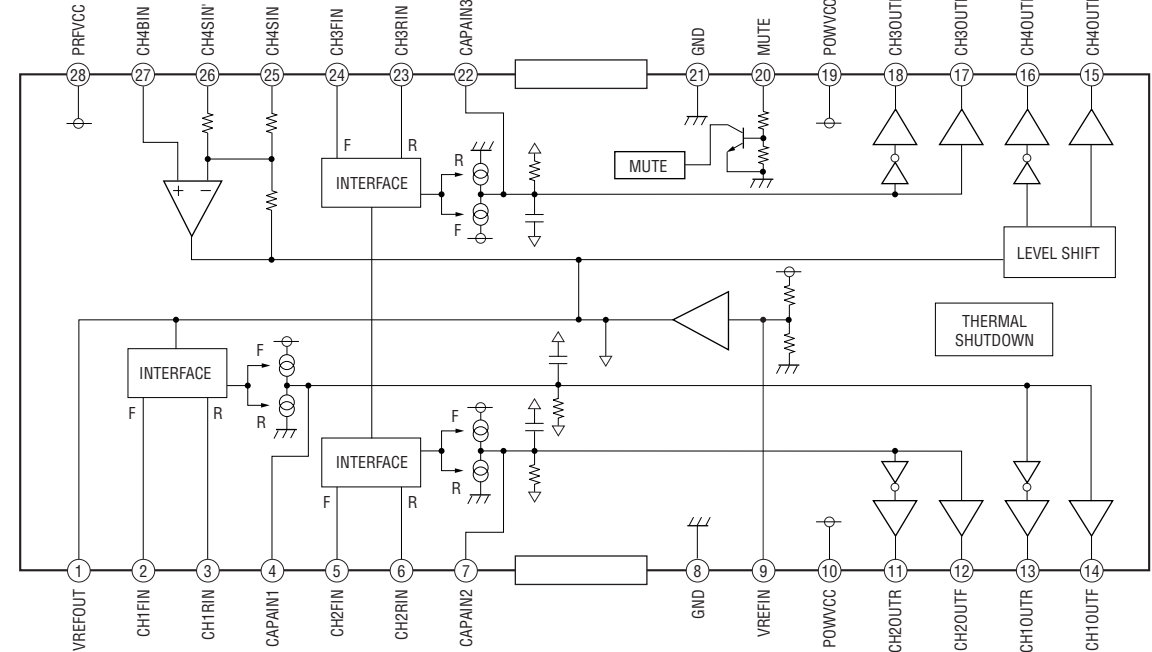


IC701 BA6956AN (DRIVER BOARD)

IC712 BA6956AN (DRIVER BOARD)



IC150 BA5974FM-E2 (CD BOARD)



7-20. IC Pin Function Description**• IC104 CXD9717R-008 D/A Converter, MP3 Decoder (CD Board)**

Pin No.	Pin Name	I/O	Description
1	RESET	I	Reset input terminal “L”: reset
2	MIMD	I	Microcomputer interface mode selection input “H”: I2C, “L”: TSB (fixed at “L”)
3	MICS/AD0	I	Microcomputer interface chip select signal input
4	MILP/AD1	I	Microcomputer interface latch pulse input
5	MIDIO	I/O	Serial data input/output
6	MICK	I	Serial clock input
7	MIACK/AD2	O	Microcomputer interface acknowledge signal output
8	VDDT	–	Power supply (3.3V) for digital circuit
9	SDO	O	Data output (open)
10	BCKO/AD3	O	Bit output (open)
11	LRCKO/AD4	O	LR clock output (open)
12	SDI0	I	Data input 0
13	BCKIA	I	Bit clock input A
14	LRCKIA	I	LR clock input A
15	SDI1/AD5	I	Data input 1 (fixed at “L”)
16	BCKIB/CE	I	Bit clock input B (fixed at “L”)
17	LRCKIB/OE	I	LR clock input B (fixed at “L”)
18	VDD	–	Power supply (2.5V) for digital circuit
19	STANDBY	I	Standby mode control signal input “H”: STB, “L”: normal (fixed at “H”)
20	VSS	–	Ground for digital circuit
21	VSSL	–	Ground for DAC Lch
22	VRAL	–	Reference voltage terminal for DAC Lch
23	LO	O	DAC Lch signal output
24	VDAL	–	Power supply (2.5V) for DAC Lch
25	VDAR	–	Power supply (2.5V) for DAC Rch
26	RO	O	DAC Rch signal output
27	VRAR	–	Reference voltage terminal for DAC Rch
28	VSSR	–	Ground for DAC Rch
29	TESTP	I	Terminal for test “H”: test mode, “L”: normal (fixed at “L”)
30	CSK	O	SPDIF signal output (open)
31 to 34	PO0/AD12 to PO3/AD09	O	General purpose output (open)
35	VDDT	–	Power supply (3.3V) for digital circuit
36	PO4/AD8	O	General purpose output (open)
37	PO5/AD7	O	General purpose output (open)
38	PO6/AD6	O	General purpose output (open)
39	PO7	O	Interrupt request signal output to the system control
40	VSS	–	Ground for digital circuit
41	FI0/AD13	I	External interrupt signal input (fixed at “L”)
42	FI1/AD14/VDDM	–	Power supply (2.5V) for the internal 1Mbit SRAM
43	FI2/WR	I	Flag signal input 0 (fixed at “L”)
44	FI3/AD16	I	Flag signal input 1 (fixed at “L”)
45	VSSM	–	Ground for the internal 1Mbit SRAM
46, 47	PI0, PI1	I	General purpose input (fixed at “L”)
48	VSS	–	Ground for digital circuit
49, 50	PI2/IO2, PI3/IO3	I	General purpose input (fixed at “L”)
51	PI4/IO4	I	General purpose input (fixed at “L”)
52	VDD	–	Power supply (2.5V) for digital circuit
53	PI5/IO5	I	General purpose input/SUBQ interface data input (fixed at “L”)

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Pin No.	Pin Name	I/O	Description
54	BOOT/IO6	I	Terminal for test/SUBQ interface frame sync input (fixed at “L”)
55	TXO/IO7	I	Flag signal input 2/SUBQ interface block sync input (fixed at “L”)
56	VSSP	–	Ground for VCO circuit
57	PDO	O	PLL phase error detection signal output
58	VCOI	I	VCO control voltage input
59	VDDP	–	Power supply (2.5V) for VCO circuit
60	CKO	O	External clock output
61	VDDX	–	Power supply (2.5V) for oscillation circuit
62	XI	I	Resonator terminal (input)
63	XO	O	Resonator terminal (output)
64	VSSX	–	Ground for oscillation circuit

• IC501 M30622MGN-B14FP SYSTEM CONTOL (MAIN Board)

Pin No.	Pin Name	I/O	Description
1	MP3 CS	O	MP3 chip select signal output
2	MP3 LP	O	MP3 latch pules output
3	MP3 ACK	I	MP3 acknowledge signal input
4	SIRCS	I	SIRCS input
5	MP3 DATA OUT	O	Serial data output
6	MP3 DATA IN	I	Serial data input
7	MP3 CLK	O	Serial clock output
8	BYTE	I	Not used (connected to ground)
9	CNVSS	—	Not used (Connected to ground with resistor)
10	XC-IN	I	Sub clock input
11	XC-OUT	O	Sub clock output
12	RESET	I	System reset input
13	X-OUT	O	Main system clock output (16MHz)
14	VSS	—	Ground
15	X-IN	I	Main system clock input (16MHz)
16	VCC	—	Power supply (+5V)
17	NMI	I	Not used (Pull up with resistor)
18	MP3 REQ	I	Interrupt request signal input
19	SCOR	I	Subcode sync (S0+S1) detection signal input
20	AC-CUT	I	AC cut check signal input
21	E-1	I	Disc tray status detection signal input
22	E-2	I	Disc tray status detection signal input
23	CD-POWER	O	CD power on/off signal output
24	BU-PWM3	O	BU PWM 3 (for CD-RW) signal output
25	CD-A-MUTE	O	CD mute signal output
26	BU-PWM2	O	BU PWM 2 (for CD-RW) signal output
27	STBY-RELEY	O	Reley drive signal output
28	BU-PWM1	O	BU PWM 1 (for CD-RW) signal output
29	IIC-CLK	I	IIC serial data clock input
30	IIC-DATA	I	IIC serial data input
31	TXD1	—	Not used
32	SQ-DATA	I	Subcode Q data input
33	SQ-CLK	O	Subcode Q data reading clock signal output
34	SENS	I	SENS signal input from CXD3068Q
35	CD-DATA	O	CD data output
36	XLAT	O	CD latch signal output
37	CD-CLK	O	CD data clock output
38	LD-ON	O	Laser diode control signal output
39	STBY-LED	O	Standby LED drive signal output
40	XRST	O	CD reset signal output
41	TBL-SENS	I	Table sensor signal input
42	EJECTSW	I	Eject switch signal input
43	E-3	I	Disc tray status detection signal input
44	TM-F	O	Table motor control signal output
45	TM-R	O	Table motor control signal output
46	LMF	O	Loading motor control signal output
47	LMR	O	Loading motor control signal output
48	MP3 RESET	O	MP3 reset signal output
49	GC-RESET	O	GC reset signal output
50	HP DETECT	I	Headphone detect input
51	REC-MUTE	O	REC mute signal output
52	TC-MUTE	O	TC line mute signal output
53	PB-A/B	O	TC A/B select signal output

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Pin No.	Pin Name	I/O	Discription
54	ALC	O	ALC signal output
55	TC-RELAY	O	REC/PB selection signal output
56	REC BIAS	O	Bias on/off signal output
57	CAPM-CONT	O	Capstan motor REV/FWD/STOP control signal output
58	B-TRIG	O	TCM-B Trigger output
59	A-TRIG	O	TCM-A trigger output
60	B-REC, REV	O	Record tab switch for SIDE B signal output
61	B-PLAY	I	TCM-B play switch input
62	VCC	—	Power supply (+3.3V)
63	AMS-IN	I	AMS signal input
64	VSS	—	Ground
65	ST-DIN	I	Tuner data input
66	A-REC, FWD	O	Record tab switch for SIDE A signal output
67	A-HALF	I	A deck half detection signal input
68	A-PLAY	I	TCM-A play switch input
69	LED-SW-LINK	O	Subwoofer LED drive signal output (open)
70	LED-SW-ON	O	Subwoofer LED drive signal output (open)
71	LED-MATRIX-SURR-2	O	Subwoofer LED drive signal output (open)
72	LED-MATRIX-SURR-1	O	Subwoofer LED drive signal output (open)
73	KEY-DISPLAY	I	DISPLAY key signal input
74	POWER-KEY	I	Power key signal input
75	STK-MUTE	O	Mute signal output to power IC
76	HP-MUTE	O	Headphone mute signal output
77	LINE-MUTE	O	TA LINE mute signal output
78	PROTECT	I	Speaker protection signal input
79	AUDIO-DATA	O	Serial data output to Audio EQIC
80	AUDIO-CLK	O	Serial data clock output to Audio EQIC
81	VACS IN	I	VACS signal input
82	SW-RELAY	O	Subwoofer relay control signal output (open)
83	FRONT-RELAY	O	Front speaker relay driver signal output
84	LINK-RELAY	O	Surround speaker relay driver signal output
85	STEREO	I	Stereo signal input
86	TUNED	I	Tuned signal input
87	ST-CE	O	Tuner chip enable signal output
88	ST-DOUT	O	Tuner data output
89	A-SHUT	I	TCM-A reel pulse input
90	B-SHUT	I	TCM-B reel pulse input
91	B-HALF	I	B deck half detection input
92	MODEL-IN	I	Model input
93	DEST-IN	I	Destination input
94	I-HOLD	I	Over-voltage protection detection input termnal
95	SW-AD-KEY	I	Subwoofer key signal input (fixed at “H”)
96	AVSS	—	Ground
97	ST-CLK	O	Tuner clock signal output
98	VREF	I	Reference voltage input
99	AVCC	—	Power supply (+3.3V)
100	ST-MUTE	O	Tuner mute signal output

• IC601 MB90M407APF-G-124-BND DISPLAY CONTROL (DISPLAY Board)

Pin No.	Pin Name	I/O	Description
1 to 7	G7 to G1	O	FLD grid output
8 to 10	P1 to P3	O	FLD segment output
11	VSS-IO	—	Ground
12 to 22	P4 to P14	O	FLD segment output
23	VDD-FIP	—	Power supply (+3.3V)
24 to 41	P15 to P32	O	FLD segment output
42	VSS-IO	—	Ground
43 to 46	P32 to P36	O	FLD segment output
47	NO USED	O	Not used
48	VKK	—	Power supply (-35V)
49	MD0	I	Not used (pull up with resistor)
50	MD1/VDD-VFT	I	Not used (pull up with resistor)
51	MD2	I	Not used (pull down with resistor)
52	VOLUME5,6 LED	O	LED drive signal output
53	VOLUME7,8 LED	O	LED drive signal output
54	VOLUME9,10 LED	O	LED drive signal output
55	VOLUME11,MULTI CH LED	O	LED drive signal output
56	VOLUME3,4 LED	O	LED drive signal output
57	VOLUME1,2 LED	O	LED drive signal output
58	TAPE A/B,TUNER LED	O	LED drive signal output
59	GAME,MD/VIDEO LED	O	LED drive signal output
60	I2C-DATA	O	IIC serial data output
61	I2C-CLOCK	O	IIC clock signal output
62	AVCC	—	Power supply (+3.3V)
63	AVSS	—	Ground
64 to 66	KEY0 to KEY2	I	Key input (A/D port)
67 to 70	BPF3 to BPF0	I	Spectrum analyzer BPF signal input
71	ALL BAND	I	L+R signal input
72	SELECTOR	O	LED group select signal output
73	CD/DVD, REC/PAUSE LED	O	LED drive signal output
74 to 76	NO USE	O	Not used
77	RESET	I	Reset input
78	SOFT TEST	O	Not used (open)
79	VOL 1B	I	Volume encoder signal B input
80	VOL 1A	I	Volume encoder signal A input
81	VSS-CPU	—	Ground
82	XOUT	O	Crystal oscillator output (4MHz)
83	XIN	I	Crystal oscillator input (4MHz)
84	VCC-CPU	—	Power supply (+3.3V)
85, 86	NO USE	—	Not used
87 to 100	G21 to G8	O	FLD grid output

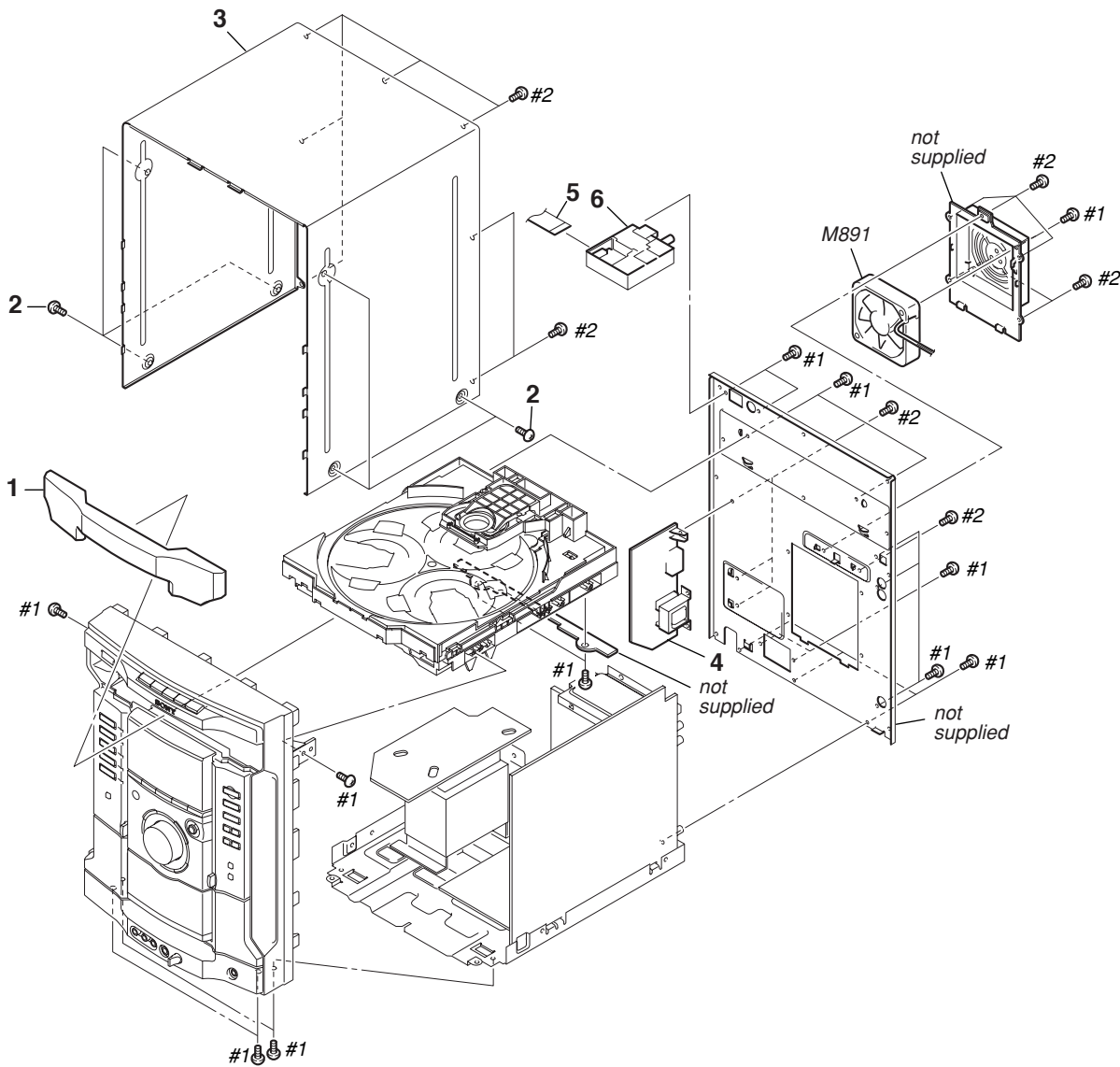
SECTION 8
EXPLODED VIEWS

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

- Abbreviation
AR : Argentine model
E2 : 120 V AC Area in E model
E51 : Chilean and Peruvian model
MX : Mexican model

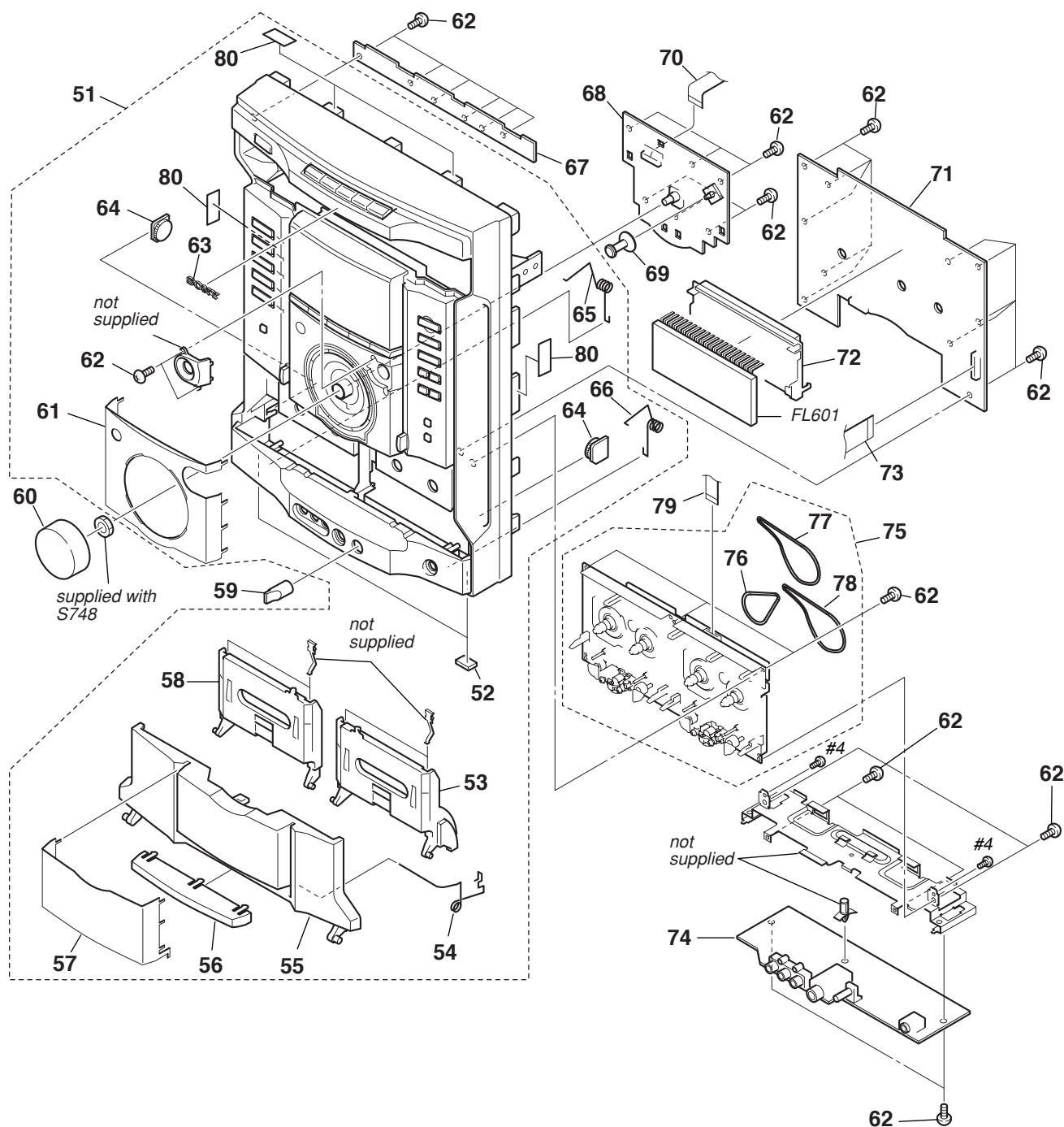
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

8-1. CASE, REAR PANEL SECTION



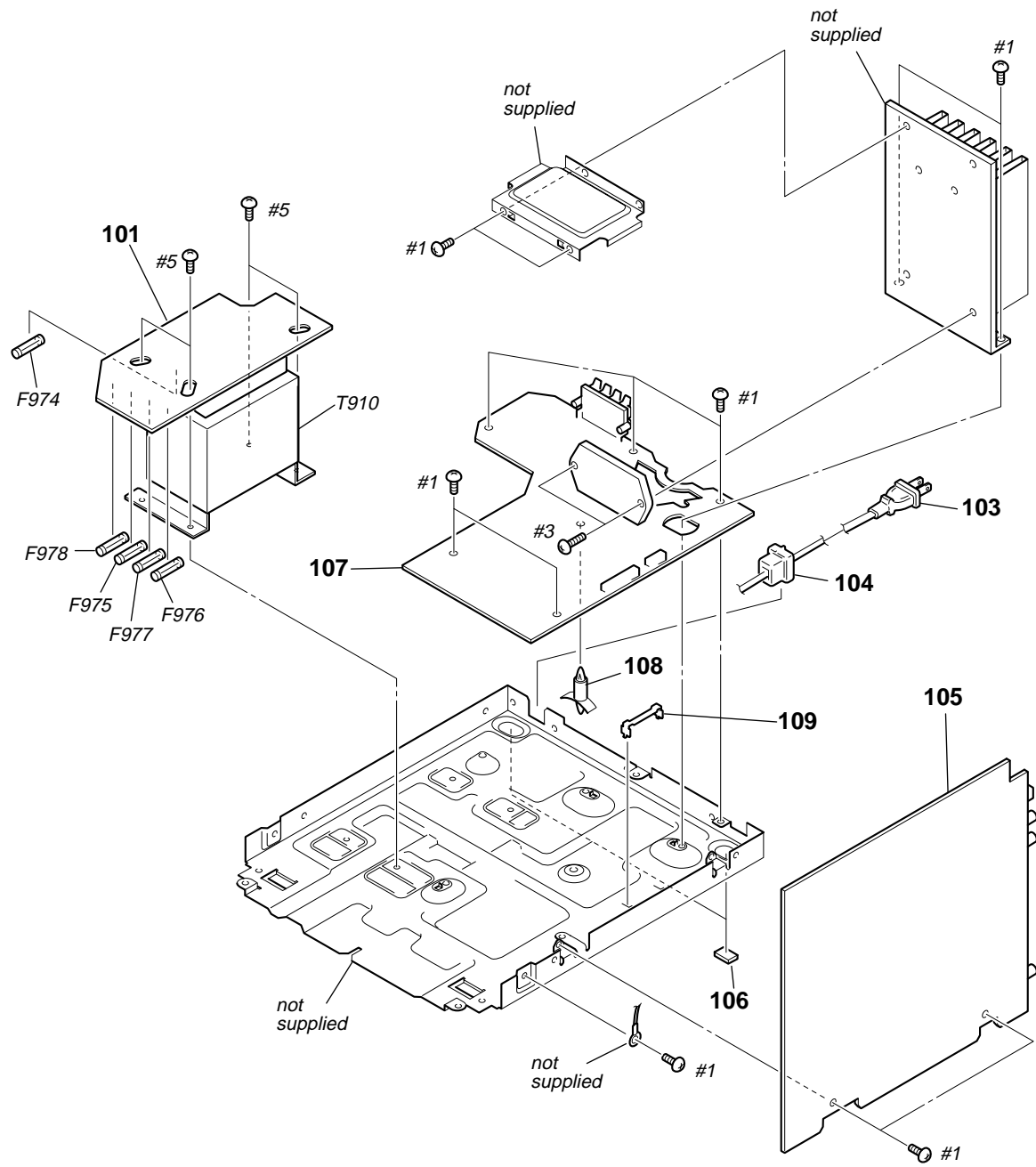
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-244-102-01	LOADING (PANEL)		6	1-693-603-11	TUNER (FM/AM)	
2	3-363-099-41	SCREW (CASE 3 TP2)		M891	1-763-072-11	FAN, DC	
3	4-231-828-31	CASE		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
4	A-4731-346-A	SUB TRANS BOARD, COMPLETE		#2	7-685-871-09	SCREW +BVTT 3X6 (S)	
5	1-920-838-32	WIRE (FLAT TYPE) (11 CORE)					

8-2. FRONT PANEL SECTION



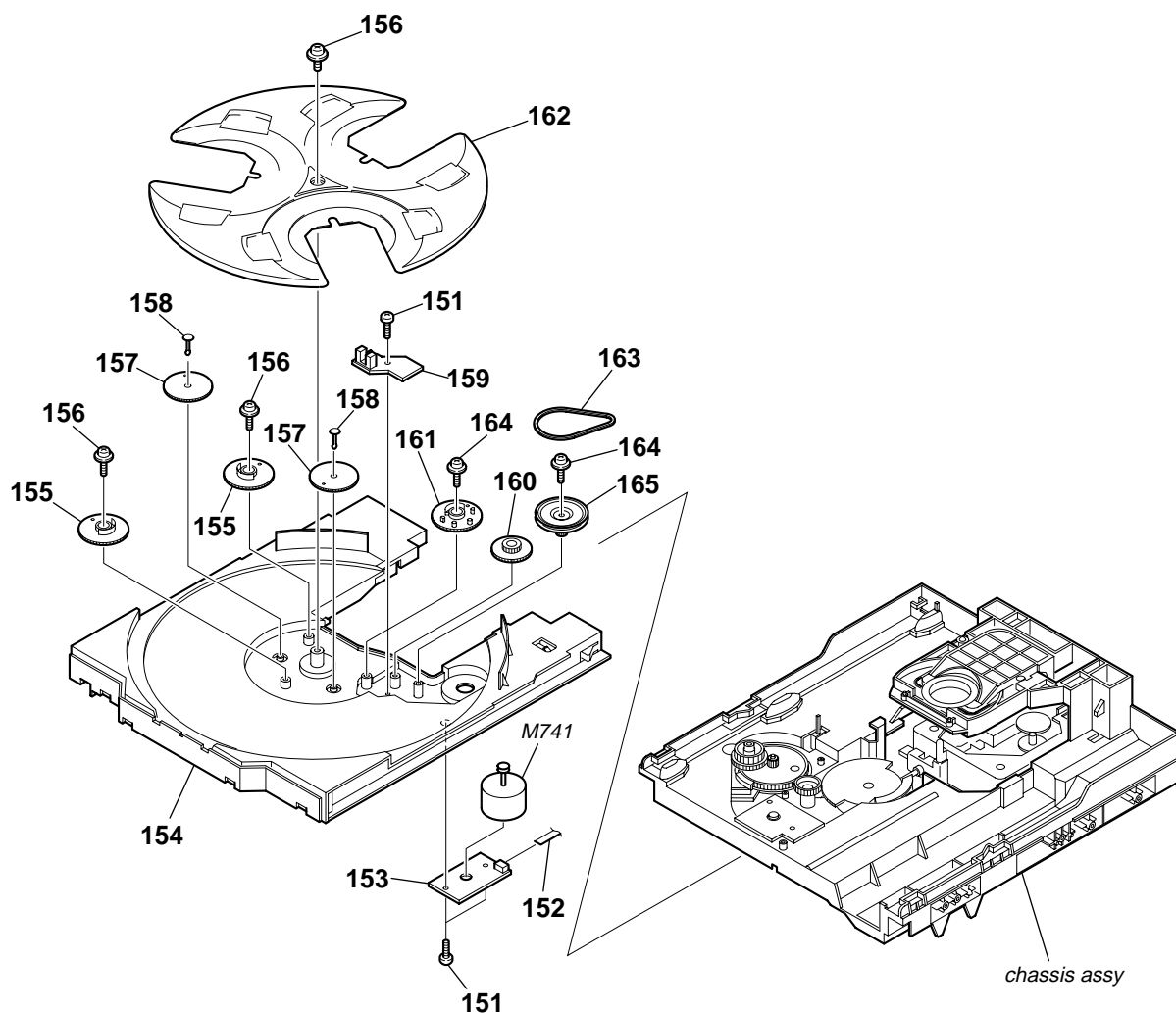
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-4955-228-1	FRONT PANEL ASSY		67	1-686-936-11	CD SWITCH BOARD	
52	4-225-252-01	CUSHION (FOOT)		68	A-4731-329-A	VOLUME BOARD, COMPLETE	
53	4-244-075-01	HOLDER (TC-R)		69	4-244-096-01	KNOB (CURSOR)	
54	4-244-093-01	SPRING (LID)		70	1-773-040-11	WIRE (FLAT TYPE) (17 CORE)	
55	4-244-072-01	LID (TC)		71	A-4731-353-A	DISPLAY BOARD, COMPLETE	
56	4-244-073-01	WINDOW (TC)		72	4-231-581-01	HOLDER (FL)	
57	4-244-090-01	COVER (AL-TC)		73	1-773-110-11	WIRE (FLAT TYPE) (19 CORE)	
58	4-244-074-01	HOLDER (TC-L)		74	A-4731-327-A	GAME IN BOARD, COMPLETE	
59	4-224-578-21	KNOB (MIC)		75	1-796-487-31	DECK, MECHANICAL	
60	4-244-097-01	KNOB (VOL)		76	4-243-609-01	BELT (AF)	
61	4-244-089-01	COVER (AL-STR)		77	4-243-610-01	BELT (AL)	
62	4-951-620-01	SCREW (2.6X8), +BVTP		78	4-243-608-01	BELT (BR)	
63	4-963-404-21	EMBLEM (5-A), SONY		79	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)	
64	4-224-104-11	DAMPER		80	3-378-434-01	CUSHION, SARANET	
65	4-244-094-01	SPRING (L)		FL601	1-518-862-11	INDICATOR TUBE, FLUORESCENT	
66	4-244-095-01	SPRING (R)		#4	7-685-781-09	SCREW +PTT 2X4 (S)	

8-3. CHASSIS SECTION



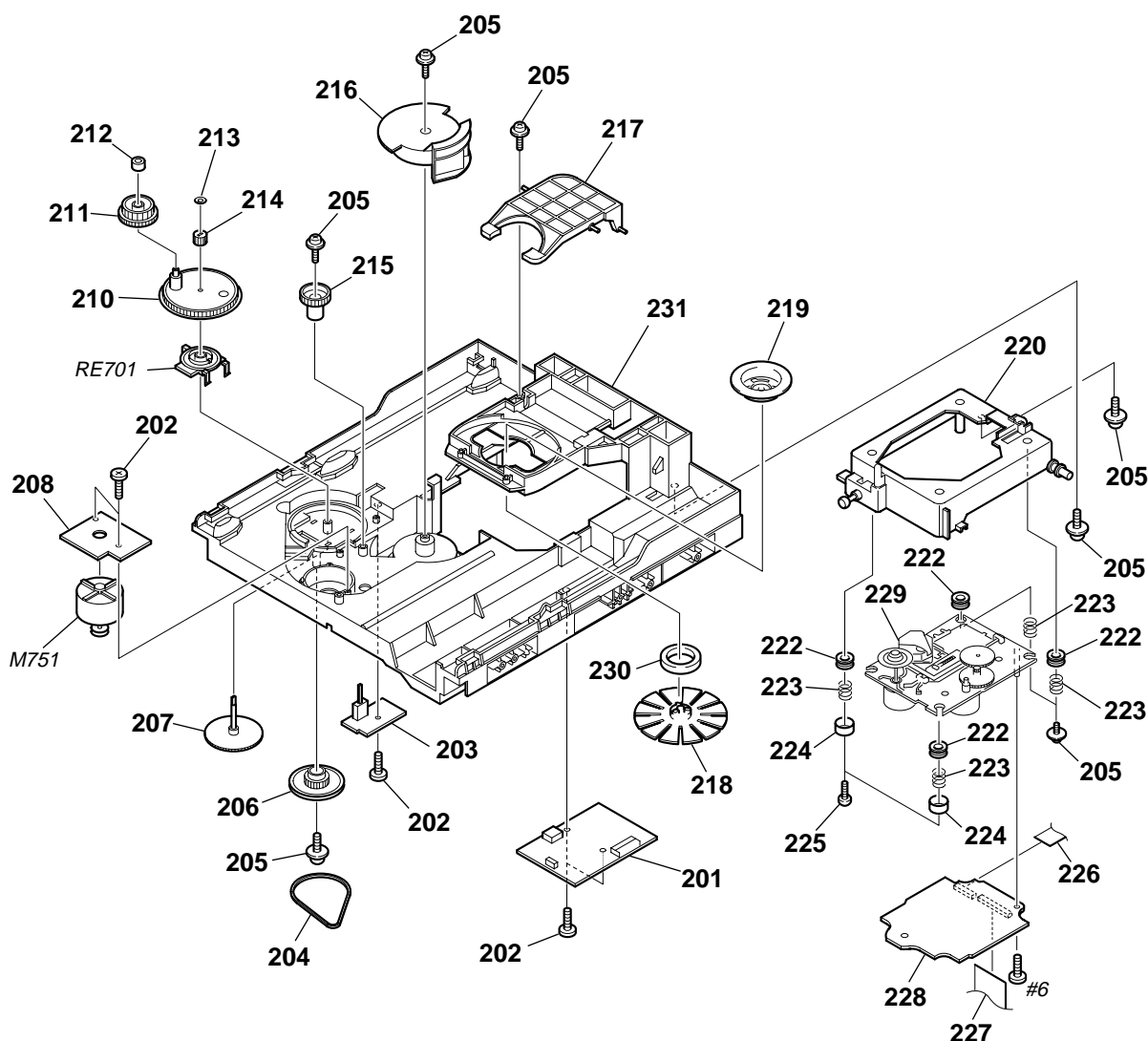
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	1-686-930-11	TRANS BOARD		* 109	4-988-533-01	HOLDER, PWB	
Δ 103	1-777-071-53	CORD, POWER (E51)		Δ F974	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL 250V)	
Δ 103	1-783-941-12	CORD, POWER (AR)		Δ F975	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL 250V)	
Δ 103	1-791-901-12	CORD, POWER (E2,MX)		Δ F976	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL 250V)	
* 104	3-703-244-00	BUSHING (2104), CORD (AR,E51)		Δ F977	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL 250V)	
104	3-703-571-11	BUSHING (S) (4516), CORD (E2,MX)		Δ F978	1-533-471-11	FUSE, GLASS TUBE (DIA. 5) (T4AL 250V)	
105	A-4731-339-A	MAIN BOARD, COMPLETE		Δ T910	1-439-556-11	POWER TRANSFORMER	
106	4-225-252-01	CUSHION (FOOT)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
107	A-4731-347-A	POWER AMP BOARD, COMPLETE		#3	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
108	4-943-687-01	HOLDER, PC BOARD		#5	7-685-881-09	SCREW +BVTT 4X8 (S)	

8-4. CD MECHANISM DECK SECTION-1 (CDM74-K6BD47S)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-218-253-21	SCREW (M2.6), +BTTP		160	4-243-820-01	GEAR (TABLE)	
152	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)		161	4-243-819-01	GEAR (GENEVA)	
153	1-687-134-11	MOTOR (TB) BOARD		162	4-243-816-01	TRAY	
154	4-243-815-01	TABLE (LOADING)		163	4-243-823-01	BELT (TABLE)	
155	4-245-571-01	GEAR (STOPPER)		164	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
156	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		165	4-243-821-01	PULLEY (TABLE)	
157	4-245-570-01	GEAR (JOINT)		M741	A-4723-963-A	MOTOR ASSY, TABLE	
158	4-245-572-01	BUSHING (GEAR)					
159	1-687-132-11	SENSOR BOARD					

8-5. CD MECHANISM DECK SECTION-2 (CDM74-K6BD47S)



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	1-687-135-11	DRIVER BOARD		218	X-4955-774-1	PULLEY (SM) ASSY, CHUCKING	
202	4-218-253-31	SCREW (M2.6), +BTTP		219	4-221-688-01	PULLEY (B), CHUCKING	
203	1-687-669-11	SW BOARD		220	X-4955-536-1	HOLDER (213) ASSY	
204	4-244-034-01	BELT (LOADING)		222	4-277-549-11	INSULATOR	
205	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		223	4-277-045-11	SPRING (INSULATOR), COIL	
206	4-225-844-01	GEAR (LOADING A)		224	4-231-151-01	STOPPER (SU)	
207	4-224-613-01	GEAR (SHAFT)		225	4-218-253-31	SCREW (M2.6), +BTTP	
208	1-687-133-11	MOTOR (LD) BOARD		226	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)	
210	4-244-108-01	GEAR, SWING		227	1-775-280-11	WIRE (FLAT TYPE) (31 CORE)	
211	4-224-609-01	GEAR (LOADING C)		228	A-4731-446-A	CD BOARD, COMPLETE	
212	4-224-608-01	COLLAR, SWING		\triangle 229	A-4735-357-A	BASE ASSY, OP (including KSS-213DCP)	
213	3-016-533-01	WASHER (FR), STOPPER		230	1-471-035-11	MAGNET ASSY	
214	4-224-611-01	GEAR (LOADING B)		231	4-243-817-11	CHASSIS	
215	4-224-606-01	GEAR (RV)		M751	A-4737-553-A	MOTOR ASSY, LOADING	
216	4-243-818-01	GEAR (U/D)					
217	4-243-822-01	LEVER (LIFTER)		RE701	1-477-680-11	ENCODER, ROTARY	
				#6	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	

SECTION 9

ELECTRICAL PARTS LIST

CD

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.
- RESISTORS**
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
Some delay should be anticipated when ordering these items.

• SEMICONDUCTORS

In each case, u: μ , for example:uA. . : μ A. . uPA. . : μ PA. .uPB. . : μ PB. . uPC. . : μ PC. .uPD. . : μ PD. .

• CAPACITORS

uF: μ F

• COILS

uH: μ H

• Abbreviation

AR : Argentine model

E2 : 120 V AC Area in E model

E51 : Chilean and Peruvian model

MX : Mexican model

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

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

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
	A-4731-446-A	CD BOARD, COMPLETE *****		C249	1-162-974-11	CERAMIC CHIP 0.01uF	50V
		< CAPACITOR >		C250	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C101	1-164-315-11	CERAMIC CHIP 470PF	5% 50V	C251	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C102	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	C252	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C103	1-164-315-11	CERAMIC CHIP 470PF	5% 50V	C253	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C104	1-162-967-11	CERAMIC CHIP 0.0033uF	10% 50V	C254	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C107	1-162-919-11	CERAMIC CHIP 22PF	5% 50V	C255	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C108	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C256	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C109	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C257	1-165-112-11	CERAMIC CHIP 0.33uF	16V
C110	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	C258	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C111	1-126-209-11	ELECT CHIP 100uF	20% 4V	C259	1-164-361-11	CERAMIC CHIP 0.047uF	16V
C113	1-126-209-11	ELECT CHIP 100uF	20% 4V	C260	1-126-246-11	ELECT CHIP 220uF	20% 4V
C114	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C261	1-126-607-11	ELECT CHIP 47uF	20% 4V
C115	1-126-246-11	ELECT CHIP 220uF	20% 4V	C262	1-126-607-11	ELECT CHIP 47uF	20% 4V
C116	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	C263	1-125-822-11	TANTAL. CHIP 10uF	20% 10V
C117	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C264	1-126-607-11	ELECT CHIP 47uF	20% 4V
C118	1-115-156-11	CERAMIC CHIP 1uF	10V	C265	1-126-607-11	ELECT CHIP 47uF	20% 4V
C119	1-115-156-11	CERAMIC CHIP 1uF	10V	C266	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C131	1-110-563-11	CERAMIC CHIP 0.068uF	10% 16V	C267	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
C132	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V	C268	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
C133	1-125-838-11	CERAMIC CHIP 2.2uF	10% 6.3V	C269	1-125-822-11	TANTAL. CHIP 10uF	20% 10V
C150	1-128-995-21	ELECT CHIP 100uF	20% 10V	C270	1-162-960-11	CERAMIC CHIP 220PF	10% 50V
C151	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C271	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C152	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C273	1-162-960-11	CERAMIC CHIP 220PF	10% 50V
C158	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V	C274	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C202	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C275	1-126-246-11	ELECT CHIP 220uF	20% 4V
C203	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C276	1-126-209-11	ELECT CHIP 100uF	20% 4V
C205	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C279	1-100-588-21	ELECT CHIP 1000uF	20% 6.3V
C206	1-126-607-11	ELECT CHIP 47uF	20% 4V	C292	1-115-156-11	CERAMIC CHIP 1uF	10V
C208	1-164-360-11	CERAMIC CHIP 0.1uF	16V			< CONNECTOR >	
C209	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	CN101	1-784-387-11	CONNECTOR, FFC/FPC 31P	
C211	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	CN102	1-777-937-11	CONNECTOR, FFC/FPC 16P	
C212	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V			< FERRITE BEAD >	
C213	1-162-967-11	CERAMIC CHIP 0.0033uF	10% 50V	FB101	1-500-283-11	FERRITE 0uH	
C215	1-117-863-11	CERAMIC CHIP 0.47uF	10% 6.3V	FB102	1-500-283-11	FERRITE 0uH	
C216	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	FB103	1-500-283-11	FERRITE 0uH	
C222	1-164-360-11	CERAMIC CHIP 0.1uF	16V	FB104	1-500-283-11	FERRITE 0uH	
C223	1-126-607-11	ELECT CHIP 47uF	20% 4V	FB106	1-500-283-11	FERRITE 0uH	
C224	1-164-360-11	CERAMIC CHIP 0.1uF	16V	FB107	1-500-283-11	FERRITE 0uH	
C226	1-126-607-11	ELECT CHIP 47uF	20% 4V	FB291	1-500-283-11	FERRITE 0uH	
C227	1-164-360-11	CERAMIC CHIP 0.1uF	16V			< IC >	
C229	1-164-360-11	CERAMIC CHIP 0.1uF	16V	IC101	8-752-408-73	IC CXD3068Q	
C230	1-164-360-11	CERAMIC CHIP 0.1uF	16V				
C231	1-126-209-11	ELECT CHIP 100uF	20% 4V				

HCD-GN600

CD	CD SWITCH	DISPLAY
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Ref. No.	Part No.	Description	Remarks
IC103	8-752-106-21	IC CXA2647N-T4	
IC104	6-704-150-01	IC CXD9717R-008	
IC121	6-700-394-01	IC BA25BC0FP-E2	
IC150	8-759-677-90	IC BA5947FP-E2	
		< COIL >	
L101	1-412-063-21	INDUCTOR 68uH	
		< TRANSISTOR >	
Q101	8-729-046-90	TRANSISTOR 2SB970-(TX).S0	
		< RESISTOR >	
R101	1-216-864-11	METAL CHIP 0 5% 1/10W	
R102	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R103	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R104	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R105	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R111	1-216-847-11	METAL CHIP 150K 5% 1/10W	
R113	1-216-828-11	METAL CHIP 3.9K 5% 1/10W	
R114	1-216-852-11	METAL CHIP 390K 5% 1/10W	
R117	1-216-846-11	METAL CHIP 120K 5% 1/10W	
R118	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R120	1-216-846-11	METAL CHIP 120K 5% 1/10W	
R122	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R123	1-216-791-11	METAL CHIP 3.3 5% 1/10W	
R125	1-216-836-11	METAL CHIP 18K 5% 1/10W	
R126	1-216-836-11	METAL CHIP 18K 5% 1/10W	
R131	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R132	1-216-851-11	METAL CHIP 330K 5% 1/10W	
R133	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R151	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R152	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R153	1-216-864-11	METAL CHIP 0 5% 1/10W	
R155	1-216-864-11	METAL CHIP 0 5% 1/10W	
R156	1-216-864-11	METAL CHIP 0 5% 1/10W	
R201	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R202	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R203	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R204	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R205	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R206	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R207	1-216-857-11	METAL CHIP 1M 5% 1/10W	
R212	1-216-817-11	METAL CHIP 470 5% 1/10W	
R213	1-216-817-11	METAL CHIP 470 5% 1/10W	
R214	1-216-864-11	METAL CHIP 0 5% 1/10W	
R215	1-216-864-11	METAL CHIP 0 5% 1/10W	
R216	1-216-857-11	METAL CHIP 1M 5% 1/10W	
R218	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R219	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R220	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R230	1-216-813-11	METAL CHIP 220 5% 1/10W	
R231	1-216-809-11	METAL CHIP 100 5% 1/10W	
R232	1-216-809-11	METAL CHIP 100 5% 1/10W	
R233	1-216-809-11	METAL CHIP 100 5% 1/10W	
R249	1-216-817-11	METAL CHIP 470 5% 1/10W	
R250	1-216-813-11	METAL CHIP 220 5% 1/10W	
R251	1-216-813-11	METAL CHIP 220 5% 1/10W	
R252	1-216-857-11	METAL CHIP 1M 5% 1/10W	
R253	1-216-819-11	METAL CHIP 680 5% 1/10W	

Ref. No.	Part No.	Description	Remarks
R254	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R255	1-216-809-11	METAL CHIP 100 5% 1/10W	
R257	1-216-809-11	METAL CHIP 100 5% 1/10W	
R259	1-216-809-11	METAL CHIP 100 5% 1/10W	
R260	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R265	1-216-813-11	METAL CHIP 220 5% 1/10W	
R266	1-216-813-11	METAL CHIP 220 5% 1/10W	
R271	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R272	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R275	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R276	1-216-809-11	METAL CHIP 100 5% 1/10W	
R277	1-216-864-11	METAL CHIP 0 5% 1/10W	
R279	1-216-809-11	METAL CHIP 100 5% 1/10W	
R280	1-216-296-11	SHORT CHIP 0	
		< SWITCH >	
S101	1-771-853-11	SWITCH, DETECTION (LIMIT)	
		< VIBRATOR >	
X201	1-767-408-21	VIBRATOR, CRYSTAL (16.9MHz)	

	1-686-936-11	CD SWITCH BOARD	

		< DIODE >	
D748	8-719-058-04	DIODE SEL5223S-TP15 (I/⏻)	
		< TRANSISTOR >	
Q748	8-729-116-02	TRANSISTOR BA1A4M-TP	
		< RESISTOR >	
R748	1-249-411-11	CARBON 330 5% 1/4W	
R749	1-249-410-11	CARBON 270 5% 1/4W F	
R788	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R789	1-249-429-11	CARBON 10K 5% 1/4W	
R790	1-249-431-11	CARBON 15K 5% 1/4W	
R791	1-249-433-11	CARBON 22K 5% 1/4W	
R792	1-249-435-11	CARBON 33K 5% 1/4W	
		< SWITCH >	
S749	1-762-875-21	SWITCH, KEYBOARD (I/⏻)	
S788	1-762-875-21	SWITCH, KEYBOARD (▲,OPEN/CLOSE)	
S789	1-762-875-21	SWITCH, KEYBOARD (EX-CHANGE/DISK SKIP)	
S790	1-762-875-21	SWITCH, KEYBOARD (DISC 3)	
S791	1-762-875-21	SWITCH, KEYBOARD (DISC 2)	
S792	1-762-875-21	SWITCH, KEYBOARD (DISC 1)	

A-4731-330-A		DISPLAY BOARD, COMPLETE	

4-231-581-01		HOLDER (FL)	
		< CAPACITOR >	
C100	1-126-964-11	ELECT 10uF 20% 50V	
C101	1-137-194-81	FILM 0.47uF 5% 50V	
C102	1-137-194-81	FILM 0.47uF 5% 50V	
C104	1-126-964-11	ELECT 10uF 20% 50V	

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C105	1-126-957-11	ELECT	0.22uF 20% 50V	D605	8-719-057-97	DIODE SEL5923A-TP15 (TUNER/BAND)	
C106	1-136-165-00	FILM	0.1uF 5% 50V	D606	8-719-057-97	DIODE SEL5923A-TP15 (TAPE A/B)	
C107	1-136-165-00	FILM	0.1uF 5% 50V	D610	8-719-109-85	DIODE MTZJ-T-72-5.1B	
C109	1-124-261-00	ELECT	10uF 20% 50V	< FLUORESCENT INDICATOR TUBE >			
C110	1-126-957-11	ELECT	0.22uF 20% 50V	FL601	1-518-862-11	INDICATOR TUBE, FLUORESCENT	
C111	1-136-157-00	FILM	0.022uF 5% 50V	< IC >			
C112	1-136-157-00	FILM	0.022uF 5% 50V	IC101	8-759-167-88	IC NJM4565D	
C114	1-126-964-11	ELECT	10uF 20% 50V	IC102	8-759-167-88	IC NJM4565D	
C115	1-126-957-11	ELECT	0.22uF 20% 50V	IC601	6-802-534-01	IC MB90M407PF-G-124-BND	
C116	1-137-367-11	MYLAR	0.0033uF 5% 50V	< TRANSISTOR >			
C117	1-137-367-11	MYLAR	0.0033uF 5% 50V	Q100	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
C118	1-126-964-11	ELECT	10uF 20% 50V	Q601	8-729-116-02	TRANSISTOR BA1A4M-TP	
C119	1-124-261-00	ELECT	10uF 20% 50V	Q602	8-729-116-02	TRANSISTOR BA1A4M-TP	
C120	1-126-957-11	ELECT	0.22uF 20% 50V	Q603	8-729-116-02	TRANSISTOR BA1A4M-TP	
C121	1-126-963-11	ELECT	4.7uF 20% 50V	Q604	8-729-116-02	TRANSISTOR BA1A4M-TP	
C122	1-124-584-00	ELECT	100uF 20% 10V	Q605	8-729-140-04	TRANSISTOR 2SB1116-TP-LK	
C123	1-104-665-11	ELECT	100uF 20% 10V	Q606	8-729-140-04	TRANSISTOR 2SB1116-TP-LK	
C124	1-126-964-11	ELECT	10uF 20% 50V	Q707	8-729-116-02	TRANSISTOR BA1A4M-TP	
C125	1-164-159-11	CERAMIC	0.1uF 50V	Q807	8-729-029-94	TRANSISTOR BA1L3Z-TP	
C152	1-162-286-31	CERAMIC	220PF 10% 50V	Q808	8-729-029-94	TRANSISTOR BA1L3Z-TP	
C153	1-162-286-31	CERAMIC	220PF 10% 50V	< RESISTOR >			
C154	1-162-286-31	CERAMIC	220PF 10% 50V	R102	1-249-419-11	CARBON 1.5K 5% 1/4W F	
C155	1-162-286-31	CERAMIC	220PF 10% 50V	R103	1-249-419-11	CARBON 1.5K 5% 1/4W F	
C156	1-162-286-31	CERAMIC	220PF 10% 50V	R104	1-249-437-11	CARBON 47K 5% 1/4W F	
C157	1-162-286-31	CERAMIC	220PF 10% 50V	R105	1-249-415-11	CARBON 680 5% 1/4W F	
C618	1-162-306-11	CERAMIC	0.01uF 30% 16V	R106	1-249-441-11	CARBON 100K 5% 1/4W F	
C619	1-124-589-11	ELECT	47uF 20% 16V	R107	1-249-441-11	CARBON 100K 5% 1/4W F	
C620	1-162-306-11	CERAMIC	0.01uF 30% 16V	R108	1-249-419-11	CARBON 1.5K 5% 1/4W F	
C622	1-126-163-11	ELECT	4.7uF 20% 50V	R109	1-249-419-11	CARBON 1.5K 5% 1/4W F	
C623	1-162-294-31	CERAMIC	0.001uF 10% 50V	R110	1-249-437-11	CARBON 47K 5% 1/4W F	
C624	1-162-306-11	CERAMIC	0.01uF 30% 16V	R111	1-249-415-11	CARBON 680 5% 1/4W F	
C625	1-162-306-11	CERAMIC	0.01uF 30% 16V	R112	1-249-441-11	CARBON 100K 5% 1/4W F	
C626	1-162-306-11	CERAMIC	0.01uF 30% 16V	R113	1-249-441-11	CARBON 100K 5% 1/4W F	
C627	1-162-306-11	CERAMIC	0.01uF 30% 16V	R114	1-249-419-11	CARBON 1.5K 5% 1/4W F	
C628	1-162-306-11	CERAMIC	0.01uF 30% 16V	R115	1-249-419-11	CARBON 1.5K 5% 1/4W F	
C651	1-164-159-11	CERAMIC	0.1uF 50V	R116	1-249-437-11	CARBON 47K 5% 1/4W F	
C652	1-124-261-00	ELECT	10uF 20% 50V	R117	1-249-415-11	CARBON 680 5% 1/4W F	
C653	1-124-261-00	ELECT	10uF 20% 50V	R118	1-249-441-11	CARBON 100K 5% 1/4W F	
C710	1-162-306-11	CERAMIC	0.01uF 30% 16V	R119	1-249-441-11	CARBON 100K 5% 1/4W F	
C711	1-162-306-11	CERAMIC	0.01uF 30% 16V	R120	1-249-419-11	CARBON 1.5K 5% 1/4W F	
C712	1-162-306-11	CERAMIC	0.01uF 30% 16V	R121	1-249-419-11	CARBON 1.5K 5% 1/4W F	
< CONNECTOR >				R122	1-249-437-11	CARBON 47K 5% 1/4W F	
* CN601	1-569-935-11	SOCKET, CONNECTOR 19P		R123	1-249-415-11	CARBON 680 5% 1/4W F	
CN604	1-568-860-11	SOCKET, CONNECTOR 17P		R124	1-249-441-11	CARBON 100K 5% 1/4W F	
< DIODE >				R125	1-249-441-11	CARBON 100K 5% 1/4W F	
D100	8-719-983-63	DIODE MTZJ-T-72-3.3B		R127	1-249-409-11	CARBON 220 5% 1/4W F	
D101	8-719-991-33	DIODE 1SS133T-72		R128	1-247-895-00	CARBON 470K 5% 1/4W F	
D102	8-719-991-33	DIODE 1SS133T-72		R129	1-249-425-11	CARBON 4.7K 5% 1/4W F	
D103	8-719-991-33	DIODE 1SS133T-72		R130	1-249-425-11	CARBON 4.7K 5% 1/4W F	
D104	8-719-991-33	DIODE 1SS133T-72		R131	1-249-441-11	CARBON 100K 5% 1/4W F	
D105	8-719-991-33	DIODE 1SS133T-72		R132	1-249-441-11	CARBON 100K 5% 1/4W F	
D106	6-500-522-11	DIODE 10EDB40-TA2B5		R133	1-249-441-11	CARBON 100K 5% 1/4W F	
D107	6-500-522-11	DIODE 10EDB40-TA2B5		R134	1-249-441-11	CARBON 100K 5% 1/4W F	
D601	8-719-063-93	DIODE SLR325VC-N-T32 (REC PAUSE/START)		R136	1-249-439-11	CARBON 68K 5% 1/4W F	
D602	8-719-057-97	DIODE SEL5923A-TP15 (GAME)		R137	1-249-433-11	CARBON 22K 5% 1/4W F	
D603	8-719-057-97	DIODE SEL5923A-TP15 (MD(VIDEO))		R138	1-249-417-11	CARBON 1K 5% 1/4W F	
D604	8-719-057-97	DIODE SEL5923A-TP15 (CD)					

HCD-GN600

DISPLAY

DRIVER

Ref. No.	Part No.	Description			Remarks
R139	1-249-411-11	CARBON	330	5%	1/4W
R140	1-247-807-31	CARBON	100	5%	1/4W
R626	1-249-411-11	CARBON	330	5%	1/4W
R627	1-249-411-11	CARBON	330	5%	1/4W
R628	1-249-411-11	CARBON	330	5%	1/4W
R629	1-249-411-11	CARBON	330	5%	1/4W
R630	1-249-411-11	CARBON	330	5%	1/4W
R631	1-249-415-11	CARBON	680	5%	1/4W F
R632	1-249-415-11	CARBON	680	5%	1/4W F
R633	1-249-415-11	CARBON	680	5%	1/4W F
R634	1-249-429-11	CARBON	10K	5%	1/4W
R635	1-249-429-11	CARBON	10K	5%	1/4W
R636	1-249-429-11	CARBON	10K	5%	1/4W
R637	1-249-429-11	CARBON	10K	5%	1/4W
R645	1-249-429-11	CARBON	10K	5%	1/4W
R646	1-247-807-31	CARBON	100	5%	1/4W
R647	1-247-807-31	CARBON	100	5%	1/4W
R652	1-249-429-11	CARBON	10K	5%	1/4W
R653	1-249-429-11	CARBON	10K	5%	1/4W
R654	1-247-807-31	CARBON	100	5%	1/4W
R655	1-247-807-31	CARBON	100	5%	1/4W
R656	1-247-807-31	CARBON	100	5%	1/4W
R657	1-249-431-11	CARBON	15K	5%	1/4W
R658	1-249-431-11	CARBON	15K	5%	1/4W
R659	1-249-431-11	CARBON	15K	5%	1/4W
R660	1-247-903-00	CARBON	1M	5%	1/4W
R661	1-249-429-11	CARBON	10K	5%	1/4W
R662	1-249-429-11	CARBON	10K	5%	1/4W
R663	1-249-429-11	CARBON	10K	5%	1/4W
R751	1-249-413-11	CARBON	470	5%	1/4W F
R752	1-249-415-11	CARBON	680	5%	1/4W F
R753	1-249-417-11	CARBON	1K	5%	1/4W F
R754	1-249-419-11	CARBON	1.5K	5%	1/4W F
R755	1-249-419-11	CARBON	1.5K	5%	1/4W F
R756	1-249-421-11	CARBON	2.2K	5%	1/4W F
R757	1-247-843-11	CARBON	3.3K	5%	1/4W
R758	1-249-425-11	CARBON	4.7K	5%	1/4W F
R779	1-249-413-11	CARBON	470	5%	1/4W F
R781	1-249-415-11	CARBON	680	5%	1/4W F
R782	1-249-417-11	CARBON	1K	5%	1/4W F
R783	1-249-419-11	CARBON	1.5K	5%	1/4W F
R784	1-249-419-11	CARBON	1.5K	5%	1/4W F
R785	1-249-421-11	CARBON	2.2K	5%	1/4W F
R786	1-247-843-11	CARBON	3.3K	5%	1/4W
R787	1-249-425-11	CARBON	4.7K	5%	1/4W F
R807	1-249-441-11	CARBON	100K	5%	1/4W
R808	1-249-441-11	CARBON	100K	5%	1/4W
R817	1-249-406-11	CARBON	120	5%	1/4W F
R818	1-249-408-11	CARBON	180	5%	1/4W F
R819	1-249-408-11	CARBON	180	5%	1/4W F
R820	1-249-408-11	CARBON	180	5%	1/4W F
R821	1-249-406-11	CARBON	120	5%	1/4W F
R822	1-249-417-11	CARBON	1K	5%	1/4W F
R823	1-249-417-11	CARBON	1K	5%	1/4W F
< SWITCH >					
S751	1-762-875-21	SWITCH, KEYBOARD (<D>)			
S752	1-762-875-21	SWITCH, KEYBOARD (■)			
S753	1-762-875-21	SWITCH, KEYBOARD (■)			
S754	1-762-875-21	SWITCH, KEYBOARD (-,◀◀)			
S755	1-762-875-21	SWITCH, KEYBOARD (▶▶I,+)			

Ref. No.	Part No.	Description			Remarks
S756	1-762-875-21	SWITCH, KEYBOARD (▶▶,ALBUM +)			
S757	1-762-875-21	SWITCH, KEYBOARD (◀◀,ALBUM -)			
S758	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)			
S779	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)			
S782	1-762-875-21	SWITCH, KEYBOARD (GAME MIXING)			
S783	1-762-875-21	SWITCH, KEYBOARD (GAME)			
S784	1-762-875-21	SWITCH, KEYBOARD (MD(VIDEO))			
S785	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)			
S786	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)			
S787	1-762-875-21	SWITCH, KEYBOARD (CD)			
< VIBRATOR >					
X601	1-781-282-51	VIBRATOR, CERAMIC (4MHz)			

	1-687-135-11	DRIVER BOARD			

< CAPACITOR >					
C715	1-126-933-11	ELECT	100uF	20%	16V
C731	1-126-964-51	ELECT	10uF	20%	50V
C735	1-164-159-11	CERAMIC	0.1uF		50V
C736	1-164-159-11	CERAMIC	0.1uF		50V
C737	1-164-159-11	CERAMIC	0.1uF		50V
C741	1-162-306-11	CERAMIC	0.01uF	30%	16V
C751	1-162-306-11	CERAMIC	0.01uF	30%	16V
C752	1-164-159-11	CERAMIC	0.1uF		50V
< CONNECTOR >					
CN701	1-785-338-11	PIN, CONNECTOR(LIGHT ANGLE)12P			
CN702	1-784-766-11	CONNECTOR, FFC 5P			
* CN703	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN704	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE)2P			
< DIODE >					
D701	8-719-947-16	DIODE MTZJ-T-72-5.1A			
D711	8-719-983-66	DIODE MTZJ-T-72-3.6B			
< IC >					
IC701	8-759-598-69	IC BA6956AN			
IC712	8-759-598-69	IC BA6956AN			
< TRANSISTOR >					
Q731	8-729-029-66	TRANSISTOR DTC114ESA-TP			
< RESISTOR >					
R701	1-249-413-11	CARBON	470	5%	1/4W F
R702	1-247-807-31	CARBON	100	5%	1/4W
R711	1-249-417-11	CARBON	1K	5%	1/4W F
R712	1-249-425-11	CARBON	4.7K	5%	1/4W F
R713	1-249-433-11	CARBON	22K	5%	1/4W
R721	1-249-425-11	CARBON	4.7K	5%	1/4W F
R722	1-249-425-11	CARBON	4.7K	5%	1/4W F
R723	1-249-425-11	CARBON	4.7K	5%	1/4W F
R731	1-247-807-31	CARBON	100	5%	1/4W
R732	1-249-425-11	CARBON	4.7K	5%	1/4W F
R733	1-249-417-11	CARBON	1K	5%	1/4W F
R734	1-249-433-11	CARBON	22K	5%	1/4W
R735	1-247-807-31	CARBON	100	5%	1/4W
R751	1-249-425-11	CARBON	4.7K	5%	1/4W F

GAME IN

MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
	A-4731-327-A	GAME IN BOARD, COMPLETE *****		R738	1-249-417-11	CARBON 1K 5%	1/4W F
		< CAPACITOR >		R739	1-249-441-11	CARBON 100K 5%	1/4W
C604	1-124-257-00	ELECT 2.2uF 20%	50V	R740	1-249-421-11	CARBON 2.2K 5%	1/4W F
C606	1-124-257-00	ELECT 2.2uF 20%	50V	R742	1-249-417-11	CARBON 1K 5%	1/4W F
C630	1-162-294-31	CERAMIC 0.001uF 10%	50V	R743	1-249-429-11	CARBON 10K 5%	1/4W
C631	1-162-294-31	CERAMIC 0.001uF 10%	50V				
C634	1-162-294-31	CERAMIC 0.001uF 10%	50V	R744	1-249-441-11	CARBON 100K 5%	1/4W
				R745	1-247-807-31	CARBON 100 5%	1/4W
				R746	1-249-417-11	CARBON 1K 5%	1/4W F
						< VARIABLE RESISTOR >	
C635	1-162-294-31	CERAMIC 0.001uF 10%	50V	RV222	1-227-452-11	RES, VAR, CARBON 50K (MIC LEVEL)	
C715	1-162-215-31	CERAMIC 47PF 5%	50V			*****	
C716	1-162-215-31	CERAMIC 47PF 5%	50V		A-4731-339-A	MAIN BOARD, COMPLETE *****	
C717	1-124-584-00	ELECT 100uF 20%	10V				
C718	1-124-584-00	ELECT 100uF 20%	10V		7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
						< CAPACITOR >	
C719	1-124-257-00	ELECT 2.2uF 20%	50V	C101	1-126-933-11	ELECT 100uF 20%	16V
C736	1-124-261-00	ELECT 10uF 20%	50V	C102	1-126-964-11	ELECT 10uF 20%	50V
C737	1-124-261-00	ELECT 10uF 20%	50V	C103	1-126-964-11	ELECT 10uF 20%	50V
C738	1-124-257-00	ELECT 2.2uF 20%	50V	C104	1-126-964-11	ELECT 10uF 20%	50V
C739	1-162-215-31	CERAMIC 47PF 5%	50V	C105	1-126-795-11	ELECT 10uF 20%	50V
C740	1-162-282-31	CERAMIC 100PF 10%	50V	C106	1-136-157-00	FILM 0.022uF 5%	50V
C741	1-124-250-11	ELECT 0.15uF 20%	50V	C107	1-136-157-00	FILM 0.022uF 5%	50V
C742	1-162-215-31	CERAMIC 47PF 5%	50V	C108	1-136-159-00	FILM 0.033uF 5%	50V
C743	1-162-290-31	CERAMIC 470PF 10%	50V	C109	1-115-871-11	ELECT 1uF 20%	50V
C744	1-162-294-31	CERAMIC 0.001uF 10%	50V	C110	1-137-150-11	MYLAR 0.01uF 5%	100V
C747	1-124-257-00	ELECT 2.2uF 20%	50V	C111	1-126-795-11	ELECT 10uF 20%	50V
C748	1-161-494-00	CERAMIC 0.022uF	25V	C112	1-136-169-00	FILM 0.22uF 5%	50V
C749	1-164-159-11	CERAMIC 0.1uF	50V	C113	1-136-171-00	FILM 0.33uF 5%	50V
				C114	1-126-964-11	ELECT 10uF 20%	50V
				C115	1-164-156-11	CERAMIC CHIP 0.1uF	25V
		< CONNECTOR >		C116	1-126-933-11	ELECT 100uF 20%	16V
* CN606	1-564-724-11	PIN, CONNECTOR (SMALL TYPE) 8P		C117	1-126-961-11	ELECT 2.2uF 20%	50V
CN607	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE) 2P		C130	1-126-964-11	ELECT 10uF 20%	50V
				C121	1-162-960-11	CERAMIC CHIP 220PF 10%	50V
				C122	1-162-960-11	CERAMIC CHIP 220PF 10%	50V
		< GROUND TERMINAL >					
EP701	1-537-738-21	TERMINAL, GROUND		C131	1-126-959-11	ELECT 0.47uF 20%	50V
EP703	1-537-738-21	TERMINAL, GROUND		C132	1-164-156-11	CERAMIC CHIP 0.1uF	25V
				C140	1-136-495-11	FILM 0.068uF 5%	50V
				C150	1-126-964-11	ELECT 10uF 20%	50V
				C152	1-126-964-11	ELECT 10uF 20%	50V
		< IC >					
IC722	8-759-167-88	IC NJM4565D		C153	1-126-964-11	ELECT 10uF 20%	50V
				C154	1-126-964-11	ELECT 10uF 20%	50V
				C155	1-126-964-11	ELECT 10uF 20%	50V
				C156	1-136-157-00	FILM 0.022uF 5%	50V
				C157	1-136-157-00	FILM 0.022uF 5%	50V
		< JACK >					
J601	1-764-592-11	JACK 3P (GAME INPUT)		C158	1-136-159-00	FILM 0.033uF 5%	50V
J631	1-794-702-11	JACK, HEADPHONE (PHONES)		C159	1-115-871-11	ELECT 1uF 20%	50V
J721	1-817-629-11	JACK (LARGE TYPE) (MIC)		C160	1-137-150-11	MYLAR 0.01uF 5%	100V
				C161	1-126-795-11	ELECT 10uF 20%	50V
				C162	1-136-169-00	FILM 0.22uF 5%	50V
		< TRANSISTOR >					
Q721	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		C163	1-136-171-00	FILM 0.33uF 5%	50V
				C167	1-126-961-11	ELECT 2.2uF 20%	50V
				C200	1-164-156-11	CERAMIC CHIP 0.1uF	25V
				C201	1-104-665-11	ELECT 100uF 20%	10V
				C206	1-164-156-11	CERAMIC CHIP 0.1uF	25V
		< RESISTOR >					
R602	1-249-417-11	CARBON 1K 5%	1/4W F				
R603	1-249-417-11	CARBON 1K 5%	1/4W F				
R604	1-249-441-11	CARBON 100K 5%	1/4W				
R605	1-249-441-11	CARBON 100K 5%	1/4W				
R721	1-249-429-11	CARBON 10K 5%	1/4W				
R722	1-249-432-11	CARBON 18K 5%	1/4W				
R734	1-247-807-31	CARBON 100 5%	1/4W				
R735	1-247-885-00	CARBON 180K 5%	1/4W				
R736	1-249-429-11	CARBON 10K 5%	1/4W				
R737	1-249-433-11	CARBON 22K 5%	1/4W				

HCD-GN600

MAIN

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
C207	1-126-916-11	ELECT	1000uF	20%	6.3V	C416	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C209	1-126-928-11	ELECT	3300uF	20%	10V	C427	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C210	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C432	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C211	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C433	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C219	1-126-964-11	ELECT	10uF	20%	50V	C434	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C269	1-126-964-11	ELECT	10uF	20%	50V	C498	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C286	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	C502	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C301	1-130-483-00	MYLAR	0.01uF	5%	50V	C503	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C303	1-136-165-00	FILM	0.1uF	5%	50V	C510	1-162-919-11	CERAMIC CHIP	22PF		50V
C304	1-126-964-11	ELECT	10uF	20%	50V	C511	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C305	1-126-960-11	ELECT	1uF	20%	50V	C512	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C306	1-126-961-11	ELECT	2.2uF	20%	50V	C516	1-126-916-11	ELECT	1000uF	20%	6.3V
C307	1-126-964-11	ELECT	10uF	20%	50V	C562	1-104-665-11	ELECT	100uF	20%	10V
C308	1-126-935-11	ELECT	470uF	20%	16V	C564	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C309	1-126-947-11	ELECT	47uF	20%	16V	C596	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C310	1-126-964-11	ELECT	10uF	20%	50V	C598	1-126-964-11	ELECT	10uF	20%	50V
C311	1-126-964-11	ELECT	10uF	20%	50V	C601	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-964-11	ELECT	10uF	20%	50V	C602	1-136-165-00	FILM	0.1uF	5%	50V
C314	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C603	1-136-165-00	FILM	0.1uF	5%	50V
C315	1-126-960-11	ELECT	1uF	20%	50V	C620	1-126-963-11	ELECT	4.7uF	20%	50V
C316	1-126-960-11	ELECT	1uF	20%	50V	C621	1-107-721-11	ELECT	4.7uF	20%	100V
C321	1-164-392-11	CERAMIC CHIP	390PF	10%	50V	C650	1-109-889-11	ELECT	1uF	20%	50V
C326	1-164-392-11	CERAMIC CHIP	390PF	10%	50V	C651	1-107-717-11	ELECT	47uF	20%	50V
C331	1-130-483-00	MYLAR	0.01uF	5%	50V	C656	1-125-891-11	CERAMIC CHIP	0.04uF	10%	25V
C332	1-137-427-11	MYLAR	120PF	5%	50V	C670	1-126-963-11	ELECT	4.7uF	20%	50V
C333	1-162-961-11	CERAMIC CHIP	330PF	10%	50V	C671	1-107-721-11	ELECT	4.7uF	20%	100V
C334	1-162-946-11	CERAMIC CHIP	27PF	5%	50V	C851	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C335	1-137-150-11	MYLAR	0.01uF	5%	100V	C901	1-126-944-11	ELECT	3300uF	20%	25V
C336	1-126-961-11	ELECT	2.2uF	20%	50V	C902	1-126-943-61	ELECT	2200uF	20%	25V
C337	1-130-485-00	MYLAR	0.015uF	5%	50V	C903	1-126-768-11	ELECT	2200uF	20%	16V
C338	1-130-481-00	MYLAR	0.0068uF	5%	50V	C904	1-130-483-00	MYLAR	0.01uF	5%	50V
C339	1-130-481-00	MYLAR	0.0068uF	5%	50V	C905	1-130-483-00	MYLAR	0.01uF	5%	50V
C340	1-130-486-00	MYLAR	0.018uF	10%	50V	C906	1-126-933-11	ELECT	100uF	20%	16V
C341	1-126-964-11	ELECT	10uF	20%	50V	C908	1-136-165-00	FILM	0.1uF	5%	50V
C342	1-126-947-11	ELECT	47uF	20%	16V	C909	1-136-165-00	FILM	0.1uF	5%	50V
C351	1-130-483-00	MYLAR	0.01uF	5%	50V	C910	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C353	1-136-165-00	FILM	0.1uF	5%	50V	C911	1-126-935-11	ELECT	470uF	20%	16V
C354	1-126-964-11	ELECT	10uF	20%	50V	C912	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C355	1-126-960-11	ELECT	1uF	20%	50V	C913	1-126-935-11	ELECT	470uF	20%	16V
C356	1-126-961-11	ELECT	2.2uF	20%	50V	C914	1-126-935-11	ELECT	470uF	20%	16V
C359	1-126-947-11	ELECT	47uF	20%	16V	C915	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C361	1-126-964-11	ELECT	10uF	20%	50V	C917	1-126-935-11	ELECT	470uF	20%	10V
C364	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C918	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C365	1-126-960-11	ELECT	1uF	20%	50V	C919	1-104-656-11	ELECT	2200uF	20%	6.3V
C371	1-164-392-11	CERAMIC CHIP	390PF	10%	50V	C920	1-126-964-11	ELECT	10uF	20%	50V
C376	1-164-392-11	CERAMIC CHIP	390PF	10%	50V	C921	1-126-968-11	ELECT	100uF	20%	50V
C381	1-130-483-00	MYLAR	0.01uF	5%	50V	C922	1-126-961-11	ELECT	2.2uF	20%	50V
C382	1-137-427-11	MYLAR	120PF	5%	50V	C923	1-126-961-11	ELECT	2.2uF	20%	50V
C383	1-162-961-11	CERAMIC CHIP	330PF	10%	50V	C924	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C384	1-162-946-11	CERAMIC CHIP	27PF	5%	50V	< CONNECTOR >					
C385	1-126-964-11	ELECT	10uF	20%	50V	CN201	1-779-299-11	CONNECTOR,FFC(LIF(NON-ZIF))31P			
C386	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	* CN301	1-568-449-11	HOUSING, CONNECTOR(PC BOARD)3P			
C387	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	* CN304	1-569-930-11	SOCKET, CONNECTOR 13P			
C390	1-126-935-11	ELECT	470uF	20%	10V	* CN402	1-569-935-11	SOCKET, CONNECTOR 19P			
C391	1-126-933-11	ELECT	100uF	20%	16V	CN501	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE)4P			
C395	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	CN502	1-785-336-11	PIN, CONNECTOR(LIGHT ANGLE)10P			
C396	1-126-965-91	ELECT	22uF	20%	50V	CN702	1-569-906-11	SOCKET, CONNECTOR 11P			
C397	1-126-964-11	ELECT	10uF	20%	50V	CN851	1-564-506-11	PLUG, CONNECTOR 3P			
C398	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CN901	1-770-726-11	CONNECTOR, BOARD TO BOARD 6P			
C399	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
CN902	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P		< JUMPER RESISTOR >			
		< DIODE >		JR001	1-216-296-11	SHORT CHIP	0
D130	8-719-988-61	DIODE 1SS355TE-17		JR003	1-216-864-11	METAL CHIP	0 5% 1/10W
D392	8-719-988-61	DIODE 1SS355TE-17		JR005	1-216-864-11	METAL CHIP	0 5% 1/10W
D393	8-719-988-61	DIODE 1SS355TE-17		JR006	1-216-296-11	SHORT CHIP	0
D394	8-719-988-61	DIODE 1SS355TE-17		JR007	1-216-296-11	SHORT CHIP	0
D501	8-719-988-61	DIODE 1SS355TE-17		JR008	1-216-864-11	METAL CHIP	0 5% 1/10W
D502	8-719-988-61	DIODE 1SS355TE-17		JR009	1-216-864-11	METAL CHIP	0 5% 1/10W
D503	8-719-988-61	DIODE 1SS355TE-17		JR011	1-216-296-11	SHORT CHIP	0
D504	8-719-988-61	DIODE 1SS355TE-17		JR012	1-216-296-11	SHORT CHIP	0
D505	8-719-988-61	DIODE 1SS355TE-17		JR013	1-216-864-11	METAL CHIP	0 5% 1/10W
D508	8-719-988-61	DIODE 1SS355TE-17		JR015	1-216-864-11	METAL CHIP	0 5% 1/10W
D509	8-719-988-61	DIODE 1SS355TE-17		JR016	1-216-864-11	METAL CHIP	0 5% 1/10W
D601	8-719-988-61	DIODE 1SS355TE-17		JR017	1-216-864-11	METAL CHIP	0 5% 1/10W
D602	8-719-988-61	DIODE 1SS355TE-17		JR018	1-216-864-11	METAL CHIP	0 5% 1/10W
D603	8-719-988-61	DIODE 1SS355TE-17		JR022	1-216-864-11	METAL CHIP	0 5% 1/10W
D901	8-719-028-23	DIODE D3SBA20-4101		JR024	1-216-864-11	METAL CHIP	0 5% 1/10W
D909	6-500-522-21	DIODE 10EDB40-TB3		JR026	1-4414-760-21	FERRITE	0uH
D910	6-500-522-21	DIODE 10EDB40-TB3		JR045	1-216-296-11	SHORT CHIP	0
D911	6-500-522-21	DIODE 10EDB40-TB3		JR103	1-216-864-11	METAL CHIP	0 5% 1/10W
D912	6-500-522-21	DIODE 10EDB40-TB3		JR104	1-216-296-11	SHORT CHIP	0
D913	6-500-522-21	DIODE 10EDB40-TB3		JR118	1-216-296-11	SHORT CHIP	0
D914	6-500-522-21	DIODE 10EDB40-TB3		JR130	1-216-864-11	METAL CHIP	0 5% 1/10W
D915	6-500-522-21	DIODE 10EDB40-TB3		JR138	1-216-864-11	METAL CHIP	0 5% 1/10W
D917	8-719-988-61	DIODE 1SS355TE-17		JR390	1-216-864-11	METAL CHIP	0 5% 1/10W
D941	8-719-977-81	DIODE UDZ-TE-17-33B		< COIL >			
		< FERRITE BEAD >		L301	1-410-780-11	INDUCTOR	27mH
FB117	1-216-864-11	METAL CHIP	0 5% 1/10W	L302	1-414-189-31	INDUCTOR	100uH
FB167	1-216-864-11	METAL CHIP	0 5% 1/10W	L351	1-410-780-11	INDUCTOR	27mH
FB201	1-419-152-11	FERRITE	0uH	< TRANSISTOR >			
FB202	1-216-864-11	METAL CHIP	0 5% 1/10W	Q101	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6
FB203	1-216-864-11	METAL CHIP	0 5% 1/10W	Q151	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6
FB204	1-216-864-11	METAL CHIP	0 5% 1/10W	Q201	8-729-802-80	TRANSISTOR	2SC3661-TB
FB205	1-216-864-11	METAL CHIP	0 5% 1/10W	Q206	8-729-900-53	TRANSISTOR	DTC114EKA-T146
FB284	1-216-864-11	METAL CHIP	0 5% 1/10W	Q207	8-729-027-31	TRANSISTOR	DTA124EKA-T146
FB286	1-216-864-11	METAL CHIP	0 5% 1/10W	Q251	8-729-802-80	TRANSISTOR	2SC3661-TB
FB516	1-414-772-11	FERRITE	0uH	Q301	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16
FB562	1-414-772-11	FERRITE	0uH	Q302	8-729-142-46	TRANSISTOR	2SC2001TP-LK
		< IC >		Q303	8-729-142-46	TRANSISTOR	2SC2001TP-LK
IC102	6-703-650-11	IC M61529FP-D60G		Q304	8-729-027-31	TRANSISTOR	DTA124EKA-T146
IC201	8-749-019-25	IC TOTX141 (CD DIGITAL OUT)		Q305	8-729-900-53	TRANSISTOR	DTC114EKA-T146
IC301	6-702-130-01	IC HA12237F		Q306	8-729-900-53	TRANSISTOR	DTC114EKA-T146
IC302	8-759-508-69	IC BA3126N		Q307	8-729-216-22	TRANSISTOR	2SA812-T1-M5M6
IC303	8-759-710-97	IC NJM4565M(Te2)		Q310	8-729-900-53	TRANSISTOR	DTC114EKA-T146
IC501	6-802-545-01	IC M30622MGN-B09FP		Q389	8-729-900-53	TRANSISTOR	DTC114EKA-T146
IC502	6-703-610-01	IC RT8H015C-T112-1		Q390	8-729-900-53	TRANSISTOR	DTC114EKA-T146
IC601	8-759-533-04	IC M62703ML-E1		Q391	8-729-140-04	TRANSISTOR	2SB1116-TP-LK
IC901	8-759-701-59	IC TA7809S		Q392	8-729-900-53	TRANSISTOR	DTC114EKA-T146
IC902	8-759-701-59	IC TA7809S		Q393	8-729-116-57	TRANSISTOR	2SB1068TP-K
IC903	6-703-546-01	IC TA7804LS		Q394	8-729-900-53	TRANSISTOR	DTC114EKA-T146
IC904	6-702-771-01	IC TA78033LS		Q395	8-729-900-53	TRANSISTOR	DTC114EKA-T146
		< JACK >		Q396	8-729-140-04	TRANSISTOR	2SB1116-TP-LK
J117	1-764-767-21	JACK, PIN 2P (MD/VIDEO(AUDIO) IN)		Q398	8-729-900-53	TRANSISTOR	DTC114EKA-T146
J716	1-774-227-11	JACK, PIN 1PP (VIDEO OUT)		Q399	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16
				Q601	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6
				Q602	8-729-014-97	TRANSISTOR	FA1L3Z-T1B
				Q620	8-729-802-80	TRANSISTOR	2SC3661-TB

HCD-GN600

MAIN

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
Q621	8-729-802-80	TRANSISTOR	2SC3661-TB			R304	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q650	8-729-027-31	TRANSISTOR	DTA124EKA-T146			R305	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q651	8-729-900-53	TRANSISTOR	DTC114EKA-T146			R306	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q652	8-729-027-31	TRANSISTOR	DTA124EKA-T146			R307	1-216-857-11	METAL CHIP	1M	5%	1/10W
Q670	8-729-802-80	TRANSISTOR	2SC3661-TB			R308	1-216-809-11	METAL CHIP	100	5%	1/10W
Q671	8-729-802-80	TRANSISTOR	2SC3661-TB			R309	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q851	8-729-140-04	TRANSISTOR	2SB1116-TP-LK			R310	1-216-809-11	METAL CHIP	100	5%	1/10W
Q852	8-729-620-05	TRANSISTOR	2SC2603TP-EF			R312	1-216-809-11	METAL CHIP	100	5%	1/10W
Q901	8-729-040-20	TRANSISTOR	RT1P137L-TP			R313	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q902	8-729-900-53	TRANSISTOR	DTC114EKA-T146			R314	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q903	8-729-209-60	TRANSISTOR	2SB1375			R315	1-216-833-11	METAL CHIP	10K	5%	1/10W
< RESISTOR >						R316	1-216-833-11	METAL CHIP	10K	5%	1/10W
R101	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R317	1-216-833-11	METAL CHIP	10K	5%	1/10W
R102	1-216-833-11	METAL CHIP	10K	5%	1/10W	R320	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R103	1-220-373-11	METAL CHIP	620	5%	1/10W	R327	1-216-835-11	METAL CHIP	15K	5%	1/10W
R104	1-216-821-11	METAL CHIP	1K	5%	1/10W	R328	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R105	1-216-841-11	METAL CHIP	47K	5%	1/10W	R329	1-216-833-11	METAL CHIP	10K	5%	1/10W
R106	1-216-833-11	METAL CHIP	10K	5%	1/10W	R330	1-216-837-11	METAL CHIP	22K	5%	1/10W
R107	1-216-809-11	METAL CHIP	100	5%	1/10W	R332	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R110	1-216-864-11	METAL CHIP	0	5%	1/10W	R333	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R112	1-216-864-11	METAL CHIP	0	5%	1/10W	R334	1-216-845-11	METAL CHIP	100K	5%	1/10W
R117	1-216-845-11	METAL CHIP	100K	5%	1/10W	R342	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R118	1-216-821-11	METAL CHIP	1K	5%	1/10W	△ R343	1-219-787-17	FUSIBLE	5.6	5%	1/4W
R121	1-216-821-11	METAL CHIP	1K	5%	1/10W	△ R344	1-219-787-17	FUSIBLE	5.6	5%	1/4W
R122	1-216-821-11	METAL CHIP	1K	5%	1/10W	R345	1-216-836-11	METAL CHIP	18K	5%	1/10W
R130	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R346	1-216-836-11	METAL CHIP	18K	5%	1/10W
R131	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R347	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R132	1-216-857-11	METAL CHIP	1M	5%	1/10W	R351	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R133	1-216-845-11	METAL CHIP	100K	5%	1/10W	R352	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R134	1-218-701-11	METAL CHIP	2.4K	5%	1/10W	R353	1-216-833-11	METAL CHIP	10K	5%	1/10W
R140	1-216-833-11	METAL CHIP	10K	5%	1/10W	R354	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R141	1-216-809-11	METAL CHIP	100	5%	1/10W	R355	1-216-841-11	METAL CHIP	47K	5%	1/10W
R142	1-216-809-11	METAL CHIP	100	5%	1/10W	R360	1-216-819-11	METAL CHIP	680	5%	1/10W
R150	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R361	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R151	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R362	1-216-833-11	METAL CHIP	10K	5%	1/10W
R152	1-216-833-11	METAL CHIP	10K	5%	1/10W	R363	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R153	1-220-373-11	METAL CHIP	620	5%	1/10W	R364	1-216-819-11	METAL CHIP	680	5%	1/10W
R154	1-216-821-11	METAL CHIP	1K	5%	1/10W	R365	1-216-833-11	METAL CHIP	10K	5%	1/10W
R155	1-216-841-11	METAL CHIP	47K	5%	1/10W	R366	1-216-819-11	METAL CHIP	680	5%	1/10W
R156	1-216-833-11	METAL CHIP	10K	5%	1/10W	R367	1-216-833-11	METAL CHIP	10K	5%	1/10W
R157	1-216-809-11	METAL CHIP	100	5%	1/10W	R368	1-216-833-11	METAL CHIP	10K	5%	1/10W
R167	1-216-845-11	METAL CHIP	100K	5%	1/10W	R369	1-216-833-11	METAL CHIP	10K	5%	1/10W
R168	1-216-821-11	METAL CHIP	1K	5%	1/10W	R370	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R204	1-216-833-11	METAL CHIP	10K	5%	1/10W	R371	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R205	1-216-821-11	METAL CHIP	1K	5%	1/10W	R372	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R206	1-216-839-11	RES CHIP	33K	5%	1/10W	R373	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R224	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	R374	1-216-833-11	METAL CHIP	10K	5%	1/10W
R226	1-216-847-11	METAL CHIP	150K	5%	1/10W	R375	1-216-833-11	METAL CHIP	10K	5%	1/10W
R228	1-216-843-11	METAL CHIP	68K	5%	1/10W	R376	1-216-833-11	METAL CHIP	10K	5%	1/10W
R254	1-216-833-11	METAL CHIP	10K	5%	1/10W	R377	1-216-833-11	METAL CHIP	10K	5%	1/10W
R255	1-216-821-11	METAL CHIP	1K	5%	1/10W	R378	1-216-833-11	METAL CHIP	10K	5%	1/10W
R256	1-216-839-11	RES CHIP	33K	5%	1/10W	R379	1-216-833-11	METAL CHIP	10K	5%	1/10W
R284	1-216-853-11	METAL CHIP	470K	5%	1/10W	R380	1-216-837-11	METAL CHIP	22K	5%	1/10W
R285	1-216-837-11	METAL CHIP	22K	5%	1/10W	R382	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R286	1-216-837-11	METAL CHIP	22K	5%	1/10W	R387	1-216-833-11	METAL CHIP	10K	5%	1/10W
R301	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R388	1-216-837-11	METAL CHIP	22K	5%	1/10W
R302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	<div>The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.</div>					
R303	1-216-833-11	METAL CHIP	10K	5%	1/10W						

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R390	1-216-833-11	METAL CHIP	10K	5%	1/10W	R539	1-216-809-11	METAL CHIP	100	5%	1/10W
R391	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R540	1-216-809-11	METAL CHIP	100	5%	1/10W
R392	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R541	1-216-809-11	METAL CHIP	100	5%	1/10W
R393	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R542	1-216-833-11	METAL CHIP	10K	5%	1/10W
R394	1-216-833-11	METAL CHIP	10K	5%	1/10W	R543	1-216-833-11	METAL CHIP	10K	5%	1/10W
R395	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R544	1-216-833-11	METAL CHIP	10K	5%	1/10W
R396	1-216-833-11	METAL CHIP	10K	5%	1/10W	R545	1-216-833-11	METAL CHIP	10K	5%	1/10W
R397	1-216-835-11	METAL CHIP	15K	5%	1/10W	R549	1-216-833-11	METAL CHIP	10K	5%	1/10W
R398	1-216-861-11	METAL CHIP	2.2M	5%	1/10W	R550	1-216-833-11	METAL CHIP	10K	5%	1/10W
R399	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R560	1-216-809-11	METAL CHIP	100	5%	1/10W
R401	1-216-833-11	METAL CHIP	10K	5%	1/10W	R561	1-216-809-11	METAL CHIP	100	5%	1/10W
R402	1-216-833-11	METAL CHIP	10K	5%	1/10W	R563	1-216-833-11	METAL CHIP	10K	5%	1/10W
R419	1-216-809-11	METAL CHIP	100	5%	1/10W	R565	1-216-809-11	METAL CHIP	100	5%	1/10W
R420	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R566	1-216-809-11	METAL CHIP	100	5%	1/10W
R421	1-216-833-11	METAL CHIP	10K	5%	1/10W	R567	1-216-809-11	METAL CHIP	100	5%	1/10W
R422	1-216-833-11	METAL CHIP	10K	5%	1/10W	R568	1-216-809-11	METAL CHIP	100	5%	1/10W
R427	1-216-809-11	METAL CHIP	100	5%	1/10W	R573	1-216-833-11	METAL CHIP	10K	5%	1/10W
R429	1-216-809-11	METAL CHIP	100	5%	1/10W	R574	1-216-833-11	METAL CHIP	10K	5%	1/10W
R430	1-216-809-11	METAL CHIP	100	5%	1/10W	R575	1-216-809-11	METAL CHIP	100	5%	1/10W
R431	1-216-845-11	METAL CHIP	100K	5%	1/10W	R576	1-216-809-11	METAL CHIP	100	5%	1/10W
R432	1-216-809-11	METAL CHIP	100	5%	1/10W	R577	1-216-809-11	METAL CHIP	100	5%	1/10W
R433	1-216-809-11	METAL CHIP	100	5%	1/10W	R578	1-216-809-11	METAL CHIP	100	5%	1/10W
R434	1-216-817-11	METAL CHIP	470	5%	1/10W	R579	1-216-809-11	METAL CHIP	100	5%	1/10W
R442	1-216-809-11	METAL CHIP	100	5%	1/10W	R580	1-216-809-11	METAL CHIP	100	5%	1/10W
R443	1-216-809-11	METAL CHIP	100	5%	1/10W	R581	1-216-809-11	METAL CHIP	100	5%	1/10W
R444	1-216-809-11	METAL CHIP	100	5%	1/10W	R583	1-216-809-11	METAL CHIP	100	5%	1/10W
R445	1-216-809-11	METAL CHIP	100	5%	1/10W	R584	1-216-809-11	METAL CHIP	100	5%	1/10W
R446	1-216-809-11	METAL CHIP	100	5%	1/10W	R585	1-216-809-11	METAL CHIP	100	5%	1/10W
R447	1-216-809-11	METAL CHIP	100	5%	1/10W	R586	1-216-809-11	METAL CHIP	100	5%	1/10W
R448	1-216-817-11	METAL CHIP	470	5%	1/10W	R587	1-216-809-11	METAL CHIP	100	5%	1/10W
R450	1-216-809-11	METAL CHIP	100	5%	1/10W	R588	1-216-809-11	METAL CHIP	100	5%	1/10W
R473	1-216-809-11	METAL CHIP	100	5%	1/10W	R589	1-216-809-11	METAL CHIP	100	5%	1/10W
R474	1-216-809-11	METAL CHIP	100	5%	1/10W	R590	1-216-809-11	METAL CHIP	100	5%	1/10W
R477	1-216-833-11	METAL CHIP	10K	5%	1/10W	R591	1-216-809-11	METAL CHIP	100	5%	1/10W
R478	1-216-833-11	METAL CHIP	10K	5%	1/10W	R592	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R492	1-216-821-11	METAL CHIP	1K	5%	1/10W	R593	1-216-821-11	METAL CHIP	1K	5%	1/10W
R493	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R594	1-216-821-11	METAL CHIP	1K	5%	1/10W
R501	1-216-821-11	METAL CHIP	1K	5%	1/10W	R597	1-216-809-11	METAL CHIP	100	5%	1/10W
R502	1-216-821-11	METAL CHIP	1K	5%	1/10W	R600	1-216-809-11	METAL CHIP	100	5%	1/10W
R503	1-216-809-11	METAL CHIP	100	5%	1/10W	R601	1-216-813-11	METAL CHIP	220	5%	1/10W
R504	1-216-809-11	METAL CHIP	100	5%	1/10W	R602	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R505	1-216-817-11	METAL CHIP	470	5%	1/10W	R603	1-216-841-11	METAL CHIP	47K	5%	1/10W
R506	1-216-817-11	METAL CHIP	470	5%	1/10W	R604	1-216-841-11	METAL CHIP	47K	5%	1/10W
R507	1-216-817-11	METAL CHIP	470	5%	1/10W	R620	1-216-833-11	METAL CHIP	10K	5%	1/10W
R509	1-216-833-11	METAL CHIP	10K	5%	1/10W	R621	1-216-821-11	METAL CHIP	1K	5%	1/10W
R511	1-216-851-11	METAL CHIP	330K	5%	1/10W	R622	1-216-841-11	METAL CHIP	47K	5%	1/10W
R513	1-216-864-11	METAL CHIP	0	5%	1/10W	R623	1-216-833-11	METAL CHIP	10K	5%	1/10W
R517	1-216-833-11	METAL CHIP	10K	5%	1/10W	R624	1-215-891-11	METAL OXIDE	680	5%	2W
R518	1-216-809-11	METAL CHIP	100	5%	1/10W	R625	1-216-821-11	METAL CHIP	1K	5%	1/10W
R519	1-216-833-11	METAL CHIP	10K	5%	1/10W	R626	1-216-806-11	METAL CHIP	56	5%	1/10W
R521	1-216-809-11	METAL CHIP	100	5%	1/10W	R650	1-216-835-11	METAL CHIP	15K	5%	1/10W
R522	1-216-809-11	METAL CHIP	100	5%	1/10W	R651	1-216-853-11	METAL CHIP	470K	5%	1/10W
R523	1-216-833-11	METAL CHIP	10K	5%	1/10W	R652	1-216-843-11	METAL CHIP	68K	5%	1/10W
R529	1-216-833-11	METAL CHIP	10K	5%	1/10W	R653	1-216-821-11	METAL CHIP	1K	5%	1/10W
R530	1-216-833-11	METAL CHIP	10K	5%	1/10W	R654	1-216-845-11	METAL CHIP	100K	5%	1/10W
R532	1-216-841-11	METAL CHIP	47K	5%	1/10W	R655	1-216-845-11	METAL CHIP	100K	5%	1/10W
R535	1-216-817-11	METAL CHIP	470	5%	1/10W	R656	1-216-833-11	METAL CHIP	10K	5%	1/10W
R536	1-216-809-11	METAL CHIP	100	5%	1/10W	R670	1-216-833-11	METAL CHIP	10K	5%	1/10W
R537	1-216-817-11	METAL CHIP	470	5%	1/10W	R671	1-216-821-11	METAL CHIP	1K	5%	1/10W
R538	1-216-809-11	METAL CHIP	100	5%	1/10W	R672	1-216-841-11	METAL CHIP	47K	5%	1/10W

HCD-GN600

MAIN	MOTOR (LD)	MOTOR (TB)	POWER AMP
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Ref. No.	Part No.	Description	Remarks		
R673	1-216-833-11	METAL CHIP	10K	5%	1/10W
R674	1-215-891-11	METAL OXIDE	680	5%	2W
R675	1-216-821-11	METAL CHIP	1K	5%	1/10W
R676	1-216-806-11	METAL CHIP	56	5%	1/10W
R851	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R852	1-216-833-11	METAL CHIP	10K	5%	1/10W
R853	1-216-422-11	METAL OXIDE	18	5%	1W
R854	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R901	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R902	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R903	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R904	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R905	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R906	1-216-821-11	METAL CHIP	1K	5%	1/10W
R908	1-216-833-11	METAL CHIP	10K	5%	1/10W
R913	1-216-841-11	METAL CHIP	47K	5%	1/10W
< VARIABLE RESISTOR >					
RV301	1-238-019-11	RES, ADJ, CARBON 47K (REC LEVEL (L))			
RV304	1-241-768-11	RES, ADJ, CARBON 220K (REC BIAS (L))			
RV351	1-238-019-11	RES, ADJ, CARBON 47K (REC LEVEL (R))			
RV354	1-241-768-11	RES, ADJ, CARBON 220K (REC BIAS (R))			
< TRANSFORMER >					
T301	1-423-980-11	TRANSFORMER, BIAS OSCILLATION			
< VIBRATOR >					
X501	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
X502	1-781-107-21	VIBRATOR, SERAMIC (16MHz)			

1-687-133-11	MOTOR (LD) BOARD				

1-687-134-11	MOTOR (TB) BOARD				

< CONNECTOR >					
CN742	1-784-727-11	CONNECTOR, FFC 5P			

A-4731-347-A	POWER AMP BOARD, COMPLETE				

7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S				
< CAPASITOR >					
C501	1-126-963-11	ELECT	4.7uF	20%	50V
C502	1-162-294-31	CERAMIC	0.001uF	10%	50V
C503	1-162-282-31	CERAMIC	100PF	10%	50V
C504	1-104-665-11	ELECT	100uF	20%	10V
C507	1-136-495-11	FILM	0.068uF	5%	50V
C508	1-136-495-11	FILM	0.068uF	5%	50V
C509	1-128-560-11	ELECT	22uF	20%	100V
C512	1-162-306-11	CERAMIC	0.01uF	20%	16V
C513	1-164-159-11	CERAMIC	0.1uF		50V
C516	1-104-665-11	ELECT	100uF	20%	10V
C517	1-126-964-11	ELECT	10uF	20%	50V
C523	1-162-306-11	CERAMIC	0.01uF	30%	16V
C524	1-162-306-11	CERAMIC	0.01uF	30%	16V

Ref. No.	Part No.	Description			Remarks
C526	1-126-964-11	ELECT	10uF	20%	50V
C541	1-136-165-00	FILM	0.1uF	5%	50V
C542	1-127-811-11	ELECT	3300uF	20%	50V
C544	1-130-777-00	MYLAR	0.1uF	5%	100V
C545	1-130-777-00	MYLAR	0.1uF	5%	100V
C546	1-137-843-11	ELECT	2200uF	20%	100V
C551	1-126-963-11	ELECT	4.7uF	20%	50V
C552	1-162-294-31	CERAMIC	0.001uF	10%	50V
C553	1-162-282-31	CERAMIC	100PF	10%	50V
C554	1-104-665-11	ELECT	100uF	20%	10V
C557	1-136-495-11	FILM	0.068uF	5%	50V
C558	1-136-495-11	FILM	0.068uF	5%	50V
C559	1-128-560-11	ELECT	22uF	20%	100V
C581	1-126-965-91	ELECT	22uF	20%	50V
C591	1-136-165-00	FILM	0.1uF	5%	50V
C592	1-127-811-11	ELECT	3300uF	20%	50V
C596	1-137-843-11	ELECT	2200uF	20%	100V
< CONNECTOR >					
CN503	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P			
CN504	1-770-722-11	CONNECTOR, BOARD TO BOARD 6P			
< DIODE >					
D501	8-719-991-33	DIODE	1SS133T-72		
D502	8-719-991-33	DIODE	1SS133T-72		
D503	8-719-947-70	DIODE	MTZJ-T-72-18C		
D504	8-719-947-70	DIODE	MTZJ-T-72-18C		
D506	8-719-991-33	DIODE	1SS133T-72		
D507	8-719-991-33	DIODE	1SS133T-72		
D508	8-719-991-33	DIODE	1SS133T-72		
D509	8-719-991-33	DIODE	1SS133T-72		
D511	8-719-991-33	DIODE	1SS133T-72		
D541	8-719-510-68	DIODE	D5SBA204101		
D543	8-719-500-60	DIODE	D5SBA20		
D551	8-719-991-33	DIODE	1SS133T-72		
D581	8-719-991-33	DIODE	1SS133T-72		
< EARTH TERMINAL >					
* EP501	1-537-738-21	TERMINAL, EARTH			
* EP502	1-537-738-21	TERMINAL, EARTH			
< IC >					
IC501	6-600-169-01	IC	STK412-240		
< TRANSISTOR >					
Q501	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q503	8-729-140-82	TRANSISTOR	2SA988TP-PAFAEA		
Q504	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q505	8-729-119-79	TRANSISTOR	2SC2785TP-FEK		
Q506	8-729-119-79	TRANSISTOR	2SC2785TP-FEK		
Q510	8-729-119-79	TRANSISTOR	2SC2785TP-FEK		
Q511	8-729-119-79	TRANSISTOR	2SC2785TP-FEK		
Q514	8-729-119-79	TRANSISTOR	2SC2785TP-FEK		
Q516	8-729-119-79	TRANSISTOR	2SC2785TP-FEK		
Q517	8-729-119-76	TRANSISTOR	2SA1175TP-HFE		
Q518	8-729-119-79	TRANSISTOR	2SC2785TP-FEK		
Q551	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q581	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		

POWER AMP

SENSOR

SUB TRANS

Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description				Remarks
< RESISTOR >							R592	1-249-441-11	CARBON	100K	5%	1/4W	
R501	1-249-417-11	CARBON	1K	5%	1/4W	F	< RELAY >						
R502	1-249-437-11	CARBON	47K	5%	1/4W		RY501	1-515-920-11	RELAY				
R503	1-249-411-11	CARBON	330	5%	1/4W								
R504	1-249-437-11	CARBON	47K	5%	1/4W								
R505	1-249-417-11	CARBON	1K	5%	1/4W	F				< THERMISTOR >			
R506	1-249-434-11	CARBON	27K	5%	1/4W		TH501	1-807-796-11	THERMISTOR				
R507	1-249-441-11	CARBON	100K	5%	1/4W		TH502	1-807-796-11	THERMISTOR				
△ R508	1-234-499-21	ENCAPSULATED COMPONENT					< TERMINAL >						
R509	1-260-076-11	CARBON	10	5%	1/2W								
△ R511	1-212-881-11	FUSIBLE	100	5%	1/4W								
△ R512	1-202-972-61	FUSIBLE	1	5%	1/4W		TM501	1-694-884-11	TERMINAL BOARD (4P) (SPEAKER)				
R513	1-249-435-11	CARBON	33K	5%	1/4W		*****						
R514	1-249-421-11	CARBON	2.2K	5%	1/4W	F		1-687-132-11	SENSOR BOARD				
R515	1-249-433-11	CARBON	22K	5%	1/4W		*****						
R516	1-249-429-11	CARBON	10K	5%	1/4W		< CONNECTOR >						
R517	1-249-429-11	CARBON	10K	5%	1/4W		CN731	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE)3P				
R518	1-249-435-11	CARBON	33K	5%	1/4W		*****						
R519	1-249-439-11	CARBON	68K	5%	1/4W								
△ R520	1-215-869-11	METAL OXIDE	1K	5%	1W								
R521	1-249-441-11	CARBON	100K	5%	1/4W		A-4731-346-A SUB TRANS BOARD, COMPLETE						
R522	1-249-441-11	CARBON	100K	5%	1/4W		*****						
R523	1-249-440-11	CARBON	82K	5%	1/4W		< CAPACITOR >						
△ R524	1-215-869-11	METAL OXIDE	1K	5%	1W		△ C971	1-113-925-11	CERAMIC	0.01uF	20%	250V	
R527	1-249-438-11	CARBON	56K	5%	1/4W		C973	1-126-933-11	ELECT	100uF	20%	16V	
R528	1-249-437-11	CARBON	47K	5%	1/4W		C975	1-126-768-11	ELECT	2200uF	20%	16V	
R529	1-249-433-11	CARBON	22K	5%	1/4W		C976	1-164-159-11	CERAMIC	0.1uF		50V	
R530	1-249-433-11	CARBON	22K	5%	1/4W		C977	1-164-159-11	CERAMIC	0.1uF		50V	
R531	1-247-891-00	CARBON	330K	5%	1/4W		C978	1-164-159-11	CERAMIC	0.1uF		50V	
R532	1-249-441-11	CARBON	100K	5%	1/4W		< CONNECTOR >						
R533	1-249-437-11	CARBON	47K	5%	1/4W		CN971	1-568-106-11	PIN, CONNECTOR(3.96MM PITCH)4P				
△ R539	1-215-889-00	METAL OXIDE	330	5%	2W		CN974	1-564-321-00	PIN, CONNECTOR(3.96MM PITCH)2P				
R541	1-249-441-11	CARBON	100K	5%	1/4W		CN976	1-506-469-11	PIN, CONNECTOR 4P				
R542	1-249-441-11	CARBON	100K	5%	1/4W		< DIODE >						
R545	1-249-417-11	CARBON	1K	5%	1/4W	F	D971	8-719-991-33	DIODE	1SS133T-72			
R546	1-249-433-11	CARBON	22K	5%	1/4W		D972	8-719-024-99	DIODE	11ES2-NTA2B			
R547	1-249-437-11	CARBON	47K	5%	1/4W		D973	8-719-024-99	DIODE	11ES2-NTA2B			
R548	1-249-437-11	CARBON	47K	5%	1/4W		D974	8-719-024-99	DIODE	11ES2-NTA2B			
R551	1-249-417-11	CARBON	1K	5%	1/4W	F	D975	8-719-024-99	DIODE	11ES2-NTA2B			
R552	1-249-437-11	CARBON	47K	5%	1/4W		< IC >						
R553	1-249-411-11	CARBON	330	5%	1/4W		IC971	6-703-546-01	IC TA7804LS				
R554	1-249-437-11	CARBON	47K	5%	1/4W		< TRANSISTOR >						
R555	1-249-417-11	CARBON	1K	5%	1/4W	F	Q971	8-729-119-79	TRANSISTOR	2SC2785TP-FEK			
R556	1-249-434-11	CARBON	27K	5%	1/4W		< RESISTOR >						
R557	1-249-441-11	CARBON	100K	5%	1/4W		R974	1-249-441-11	CARBON	100K	5%	1/4W	
△ R558	1-234-499-21	ENCAPSULATED COMPONENT					R975	1-249-429-11	CARBON	10K	5%	1/4W	
R559	1-260-076-11	CARBON	10	5%	1/2W		< RELAY >						
△ R561	1-212-881-11	FUSIBLE	100	5%	1/4W		△ RY971	1-755-276-11	RELAY, POWER				
R564	1-249-433-11	CARBON	22K	5%	1/4W								
R565	1-249-433-11	CARBON	22K	5%	1/4W								
R568	1-249-429-11	CARBON	10K	5%	1/4W								
R569	1-249-437-11	CARBON	47K	5%	1/4W								
R570	1-249-429-11	CARBON	10K	5%	1/4W								
R572	1-249-441-11	CARBON	100K	5%	1/4W								
R577	1-247-807-31	CARBON	100	5%	1/4W								
R578	1-247-897-11	CARBON	560K	5%	1/4W								
R581	1-249-435-11	CARBON	33K	5%	1/4W								
R582	1-249-435-11	CARBON	33K	5%	1/4W								
R591	1-249-441-11	CARBON	100K	5%	1/4W								
								The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.					

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HCD-GN600

SUB TRANS

SW

TRANS

VOLUME

Ref. No.	Part No.	Description	Remarks			
< SWITCH >						
△ S901	1-786-055-21	SELECTOR, VOLTAGE				
< TRANSFORMER >						
△ T972	1-435-825-11	TRANSFORMER, POWER				

	1-687-669-11	SW BOARD				

< SWITCH >						
S751	1-786-514-11	SWITCH, LEVER (SLIDE) (LEVER)				

	1-686-930-11	TRANS BOARD				

< CAPACITOR >						
C941	1-128-576-11	ELECT	100uF	20%	63V	
< CONNECTOR >						
CN997	1-564-509-11	PLUG, CONNECTOR 6P				
* CN998	1-564-510-11	PLUG, CONNECTOR 7P				
< DIODE >						
D977	8-719-024-99	DIODE 11ES2-NTA2B				
< FUSE HOLDER >						
FH9741	1-533-233-11	FUSE HOLDER				
FH9742	1-533-233-11	FUSE HOLDER				
FH9751	1-533-233-11	FUSE HOLDER				
FH9752	1-533-233-11	FUSE HOLDER				
FH9761	1-533-233-11	FUSE HOLDER				
FH9762	1-533-233-11	FUSE HOLDER				
FH9771	1-533-233-11	FUSE HOLDER				
FH9772	1-533-233-11	FUSE HOLDER				
FH9781	1-533-233-11	FUSE HOLDER				
FH9782	1-533-233-11	FUSE HOLDER				
< RESISTOR >						
△ R941	1-217-637-00	FUSIBLE	1	5%	1/4W	
△ R952	1-219-120-11	FUSIBLE	0.15	5%	1/4W	

A-4731-329-A	VOLUME BOARD, COMPLETE					

< CAPACITOR >						
C614	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C615	1-124-589-11	ELECT	47uF	20%	16V	
C750	1-164-159-11	CERAMIC	0.1uF		50V	
C751	1-164-159-11	CERAMIC	0.1uF		50V	
C752	1-164-159-11	CERAMIC	0.1uF		50V	
< CONNECTOR >						
CN605	1-568-860-11	SOCKET, CONNECTOR 17P				
< DIODE >						
D1001	6-500-529-01	DIODE SLI-325URT31W (VOL 1)				

Ref. No.	Part No.	Description	Remarks
D1002	6-500-529-01	DIODE SLI-325URT31W (VOL 2)	
D1003	6-500-529-01	DIODE SLI-325URT31W (VOL 3)	
D1004	6-500-529-01	DIODE SLI-325URT31W (VOL 4)	
D1005	6-500-529-01	DIODE SLI-325URT31W (VOL 5)	
D1006	6-500-529-01	DIODE SLI-325URT31W (VOL 6)	
D1007	6-500-529-01	DIODE SLI-325URT31W (VOL 7)	
D1008	6-500-529-01	DIODE SLI-325URT31W (VOL 8)	
D1009	6-500-529-01	DIODE SLI-325URT31W (VOL 9)	
D1010	6-500-529-01	DIODE SLI-325URT31W (VOL 10)	
D1011	6-500-529-01	DIODE SLI-325URT31W (VOL 11)	
< IC >			
IC603	6-600-174-01	IC RPM7240-H4	
< TRANSISTOR >			
Q1001	8-729-116-02	TRANSISTOR BA1A4M-TP	
Q1002	8-729-116-02	TRANSISTOR BA1A4M-TP	
Q1003	8-729-116-02	TRANSISTOR BA1A4M-TP	
Q1004	8-729-116-02	TRANSISTOR BA1A4M-TP	
Q1005	8-729-116-02	TRANSISTOR BA1A4M-TP	
Q1006	8-729-116-02	TRANSISTOR BA1A4M-TP	
< RESISTOR >			
R625	1-249-401-11	CARBON 47 5% 1/4W F	
R750	1-249-410-11	CARBON 270 5% 1/4W F	
R759	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R760	1-249-429-11	CARBON 10K 5% 1/4W	
R761	1-249-431-11	CARBON 15K 5% 1/4W	
R762	1-249-433-11	CARBON 22K 5% 1/4W	
R763	1-249-435-11	CARBON 33K 5% 1/4W	
R765	1-249-413-11	CARBON 470 5% 1/4W F	
R766	1-249-415-11	CARBON 680 5% 1/4W F	
R767	1-249-417-11	CARBON 1K 5% 1/4W F	
R768	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R769	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R770	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R771	1-247-843-11	CARBON 3.3K 5% 1/4W	
R772	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R773	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R774	1-249-429-11	CARBON 10K 5% 1/4W	
R775	1-249-431-11	CARBON 15K 5% 1/4W	
R776	1-249-433-11	CARBON 22K 5% 1/4W	
R777	1-249-435-11	CARBON 33K 5% 1/4W	
R1001	1-249-413-11	CARBON 470 5% 1/4W F	
R1002	1-249-413-11	CARBON 470 5% 1/4W F	
R1003	1-249-413-11	CARBON 470 5% 1/4W F	
R1004	1-249-413-11	CARBON 470 5% 1/4W F	
R1005	1-249-413-11	CARBON 470 5% 1/4W F	
R1006	1-249-413-11	CARBON 470 5% 1/4W F	
R1007	1-249-413-11	CARBON 470 5% 1/4W F	
R1008	1-249-413-11	CARBON 470 5% 1/4W F	
R1009	1-249-413-11	CARBON 470 5% 1/4W F	
R1010	1-249-413-11	CARBON 470 5% 1/4W F	
R1011	1-249-413-11	CARBON 470 5% 1/4W F	

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Ref. No.	Part No.	Description	Remarks
		< SWITCH >	
S748	1-476-504-11	ENCODER, ROTARY (VOLUME)	
S750	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)	
S759	1-762-875-21	SWITCH, KEYBOARD (SURROUND SPEAKER MODE)	
S760	1-762-875-21	SWITCH, KEYBOARD (P.FILE)	
S761	1-762-875-21	SWITCH, KEYBOARD (ILLUMINATION)	
S762	1-762-875-21	SWITCH, KEYBOARD (GAME EQ)	
S763	1-762-875-21	SWITCH, KEYBOARD (GROOVE)	
S765	1-762-875-21	SWITCH, KEYBOARD (EDIT/DIRECTION)	
S766	1-762-875-21	SWITCH, KEYBOARD (FM MODE/REPEAT)	
S767	1-762-875-21	SWITCH, KEYBOARD (TUNER MEMORY/PLAY MODE)	
S768	1-762-875-21	SWITCH, KEYBOARD (AMP MENU)	
S769	1-762-875-21	SWITCH, KEYBOARD (MUSIC EQ)	
S770	1-762-875-21	SWITCH, KEYBOARD (MOVIE EQ)	
S771	1-762-875-21	SWITCH, KEYBOARD (EFFECT ON/OFF)	
S773	1-786-528-11	SWITCH, ROTARY (←,→,↑,↓, PUSH ENTER)	

		MISCELLANEOUS	

5	1-920-838-32	WIRE (FLAT TYPE) (11 CORE)	
6	1-693-603-11	TUNER (FM/AM)	
70	1-773-040-11	WIRE (FLAT TYPE) (17 CORE)	
73	1-773-110-11	WIRE (FLAT TYPE) (19 CORE)	
75	1-796-487-31	DECK, MECHANICAL	
79	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)	
△ 103	1-777-071-53	CORD, POWER (E51)	
△ 103	1-783-941-12	CORD, POWER (AR)	
△ 103	1-791-901-12	CORD, POWER (E2,MX)	
152	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
226	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)	
227	1-775-280-11	WIRE (FLAT TYPE) (31 CORE)	
△ 229	A-4735-357-A	BASE ASSY, OP (including KSS-213DCP)	
230	1-471-035-11	MAGNET ASSY	
△ F974	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL 250V)	
△ F975	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL 250V)	
△ F976	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL 250V)	
△ F977	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL 250V)	
△ F978	1-533-471-11	FUSE, GLASS TUBE (DIA. 5) (T4AL 250V)	
M741	A-4723-963-A	MOTOR ASSY, TABLE	
M751	A-4737-553-A	MOTOR ASSY, LOADING	
M891	1-763-072-11	FAN, DC	
RE701	1-477-680-11	ENCODER, ROTARY	
△ T910	1-439-556-11	POWER TRANSFORMER	

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REVISION HISTORY

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