

HCD-GX35/RG310/RG330

SERVICE MANUAL

Ver 1.0 2003. 08

Canadian Model

HCD-GX35

AEP Model

UK Model

HCD-RG310/RG330

E Model

HCD-RG330



(Photo: HCD-GX35)

- HCD-GX35/RG310/RG330 is the tuner, deck, CD and amplifier section in MHC-GX35/RG310/RG330.

CD Section	Model Name Using Similar Mechanism	CX-JN3
	CD Mechanism Type	CDM74F-K6BD71A CDM74F-K6BD72
	Base Unit Name	BU-K6BD71A BU-K6BD72
	Optical Pick-up Name	KSS-213DCP
Tape Deck Section	Model Name Using Similar Mechanism	CX-JN3
	Tape Transport Mechanism Type	CWM43FF-13

SPECIFICATIONS

Amplifier section

North American models:

HCD-GX35:

Continuous RMS power output (reference):
120 + 120 watts (6 ohms at 1 kHz, 10% THD)
Total harmonic distortion less than 0.07% (6 ohms at 1 kHz, 60 W)

European models:

HCD-RG330:

DIN power output (rated): 100 + 100 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference):
120 + 120 watts (6 ohms at 1 kHz, 10% THD)
Music power output (reference):
240 + 240 watts (6 ohms at 1 kHz, 10% THD)

HCD-RG310:

DIN power output (rated): 80 + 80 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference):
100 + 100 watts (6 ohms at 1 kHz, 10% THD)
Music power output (reference):
200 + 200 watts (6 ohms at 1 kHz, 10% THD)

Other models:

HCD-RG330:

The following measured at AC 120, 127, 220, 240 V, 50/60 Hz

DIN power output (rated): 100 + 100 watts (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
120 + 120 watts (6 ohms at 1 kHz, 10% THD)

Inputs

GAME INPUT AUDIO L/R (phono jacks):
voltage 250 mV,
impedance 47 kilohms

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

Outputs

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

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

SPEAKER:
accepts impedance of 6 to 16 ohms

– Continued on next page –

COMPACT DISC DECK RECEIVER

9-961-223-01

2003H04-1

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Sony Corporation

Home Audio Company

Published by Sony Engineering Corporation

SONY®

HCD-GX35/RG310/RG330

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser ($\lambda=780$ nm)
Emission duration:	continuous
Frequency response	2 Hz – 20 kHz (± 0.5 dB)
Wavelength	780 – 790 nm
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB

Tape deck section

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

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	65.0 – 74.0 MHz
Russian models	(There is no stereo effect) 87.5 – 108.0 MHz
Other models	87.5 – 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 ohms unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

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

General

Power requirements	
North American models:	120 V AC, 60 Hz
European models:	230 V AC, 50/60 Hz
Argentina model:	220 V AC, 50/60 Hz
Mexican model:	127 V AC, 60 Hz
Other models:	120 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector

Power consumption

Canadian model:	
HCD-GX35:	120 watts
European models:	
HCD-RG330:	120 watts 0.35 watts (at the Power Saving Mode)
HCD-RG310:	110 watts 0.35 watts (at the Power Saving Mode)
Other models:	
HCD-RG330:	120 watts

Dimensions (w/h/d) Approx. 280 × 325 × 407 mm

Mass

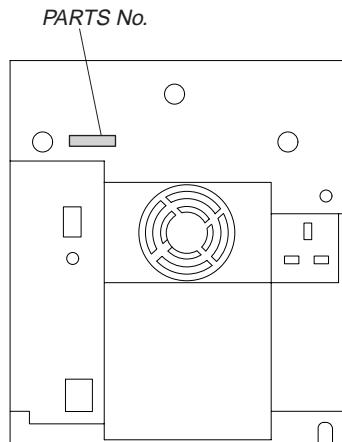
North American models:	
HCD-GX35:	Approx. 9.0 kg
European models:	
HCD-RG330:	Approx. 9.0 kg
HCD-RG310:	Approx. 9.0 kg
Other models:	
HCD-RG330:	Approx. 9.0 kg

Supplied accessories:	AM loop antenna (1) Remote Commander (1) Batteries (2) FM lead antenna (1) Speaker pads (8)
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Design and specifications are subject to change without notice.

MODEL IDENTIFICATION

– BACK PANEL –



MODEL	PARTS No.
GX35: CND	4-244-697-01
RG330: E2, E51	4-244-697-11
RG310: AEP, UK	4-244-697-21
RG330: AEP, UK, AR, MX	

• Abbreviation

- CND : Canadian model
- E2 : 120 V AC Area in E model
- E51 : Chilean and Peruvian model
- AR : Argentina model
- MX : Mexican model

SAFETY-RELATED COMPONENT WARNING!!

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

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

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

SAFETY CHECK-OUT

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

LEAKAGE TEST

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

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

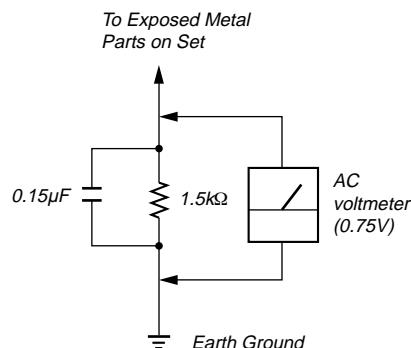


Fig. A. Using an AC voltmeter to check AC leakage.

Notes on Chip Component Replacement

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

Flexible Circuit Board Repairing

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

CAUTION

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

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

The laser diode in the optical pick-up block may suffer electrostatic breakdown 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 component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

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

SETTING AND RELEASING THE CD DISC TRAY LOCK FUNCTION

This set has a disc tray lock function to prevent discs for demonstration at shops from theft. While this lock function is set, the tray will not be delivered out even when the OPEN/CLOSE button is pressed.

Setting method:

Press the OPEN/CLOSE button while pressing the STOP button. After a few seconds, the message "LOCKED" will appear on the fluorescent indicator tube with the tray locked.

Releasing method:

Just as the lock is set, press the OPEN/CLOSE button while pressing the STOP button.

After a few seconds, the message "UNLOCKED" will appear with the lock released.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the "S curve check" in "CD section adjustment" and check that the S curve waveforms are output three times.

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SECTION 1

GENERAL

This section is extracted from instruction manual.

List of button locations and reference pages

How to use this page

Use this page to find the location of buttons and other parts of the system that are mentioned in the text.

Illustration number

TAPE A/B [26] (16, 17)

Name of button/part

Reference page

ALPHABETICAL ORDER

A - H

- ALBUM +/- [14] (10, 12)
- CD [19] (9, 12, 17)
- CLEAR [5] (12)
- CLOCK/TIMER SELECT [2] (21, 22)
- CLOCK/TIMER SET [3] (8, 20, 21)
- DISPLAY [6] (15, 22, 23)
- DISPLAY window [4] (18)
- ENTER [5] (10, 12, 13, 20, 21)
- FM MODE [2] (15)
- GAME (MD)* [10] (19, 25)
- GROOVE [3] (18, 28)
- MOVIE EQ [2] (18)
- MUSIC EQ [2] (18)
- PHONES jack [17]
- Power Illuminator [5] (24)
- Remote sensor [3]
- REC PAUSE/STAND BY [2] (17, 19)
- TAPE A/B [25] (16, 17)
- TUNER/BAND [2] (13, 14, 17)
- VOLUME control [6] (18, 20)
- Deck A [2] (16)
- Deck B [14] (16, 17)
- DISC 1 ~ 3 [8] (10, 12)
- DISC SKIP/EX-CHANGE [9] (9, 10)
- Disc tray [7] (9)
- DISPLAY [2] (15, 22, 23)
- Display window [4]
- EFFECT ON/OFF [1] (18)
- GAME [2] (19, 25)
- GAME EQ [2] (18)
- GAME INPUT AUDIO L/R jacks [9] (25)
- GAME INPUT VIDEO jack [8] (25)
- GAME MIXING [2] (19)
- GROOVE [2] (18, 28)

Remote control for MHC-GX45/GX35/RG440S/RG330/RG310 and MHC-RG220 (European and Russian models)

BUTTON DESCRIPTIONS

A - H

- I/V¹ (power) [4] (7, 14, 20, 26, 28)
- ILLUMINATION [5] (24)
- PLAY MODE [20] (10, 12, 16)
- PRESET EQ [7] (18)
- REPEAT +/- [5] (13, 14)
- SLEEP [1] (20)
- SURROUND [1] (19)
- TAP/A/B [9] (16, 17)
- TUNER/BAND [8] (13, 14, 17)
- TUNER MEMORY [8] (13)
- TUNING +/- [5] (13, 15)
- VOL +/- [2] (18, 20)

BUTTON DESCRIPTIONS

H - Z

- (play) [5] (10, 16)
- (pause) [6] (10, 16)
- (eject) [10] (9)
- PUSH \blacktriangle (deck B) (eject) [13] (16)
- (stop) [5] (10, 16, 17)
- \blacktriangleright + (fast forward) [5] (10, 13, 16)
- \blacktriangleright (go forward) [5] (8, 10, 13, 16, 20)
- \blacktriangleleft (play) [20] (10, 16)
- \blacktriangleleft (rewind) [20] (10, 13, 16, 20)
- \blacktriangleleft (go back) [20] (8, 10, 13, 16, 20)
- \blacktriangleleft (stop) [5] (10, 16, 17)

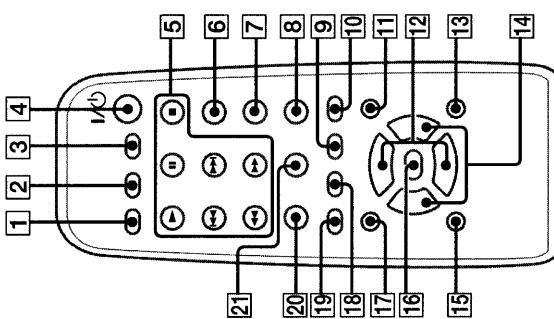
BUTTON DESCRIPTIONS

I - Z

- (go back/go forward) [5] (10, 13, 16, 20)
- (play) [5] (10, 16)
- (pause) [5] (10, 16)
- (stop) [5] (10, 16, 17)

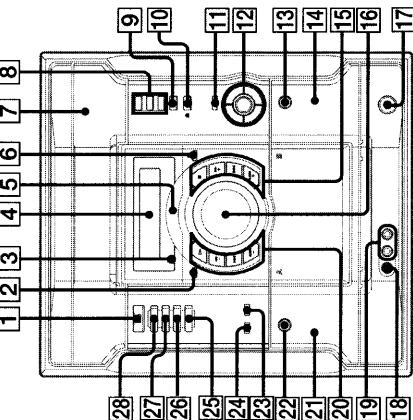
* This button is used to switch to GAME function.

Additional Information



Additional Information

* MHC-GX45/GX35/RG440S/
RG330/RG310 and MHC-
RG220 (European and Russian
models) only

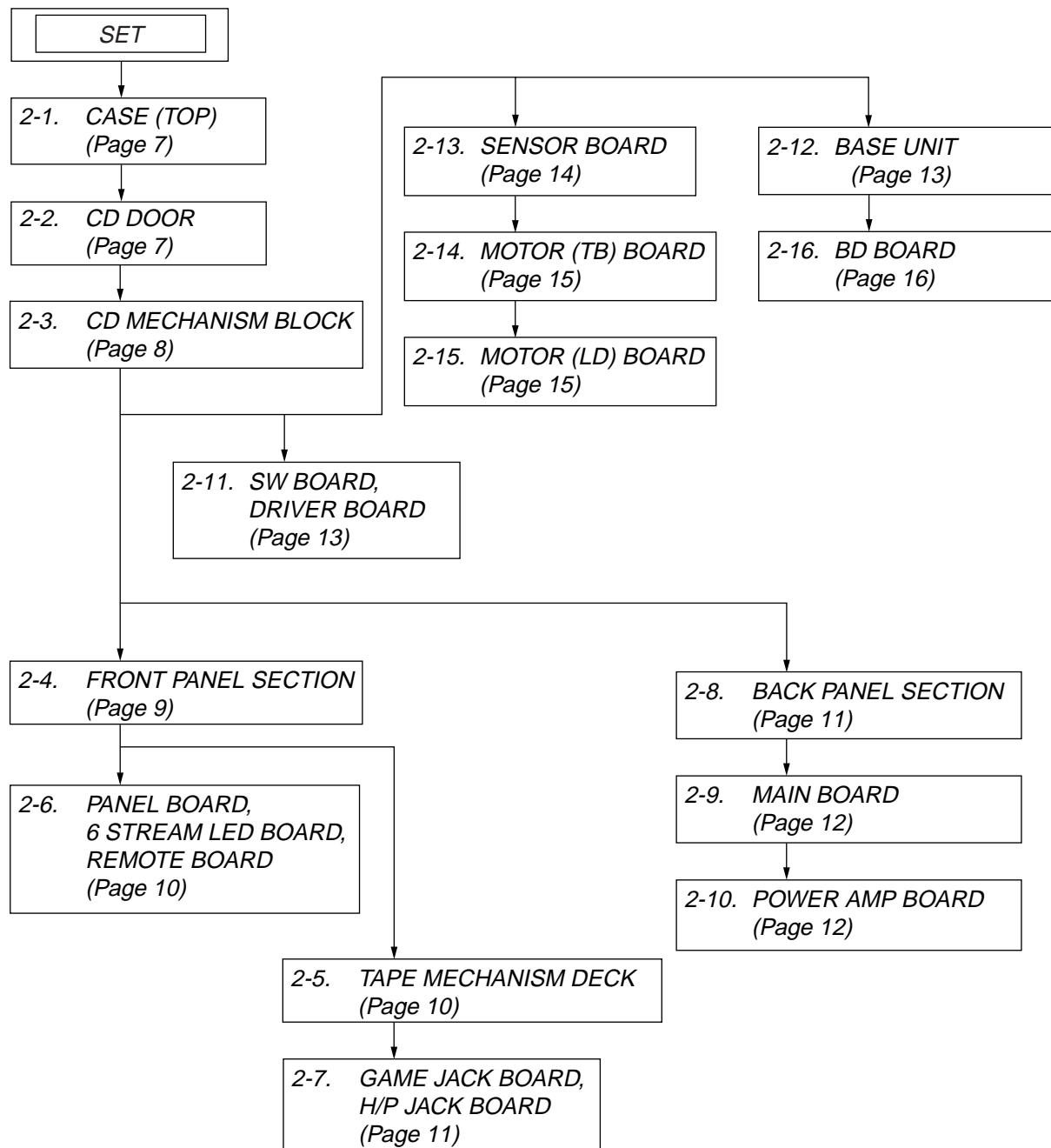


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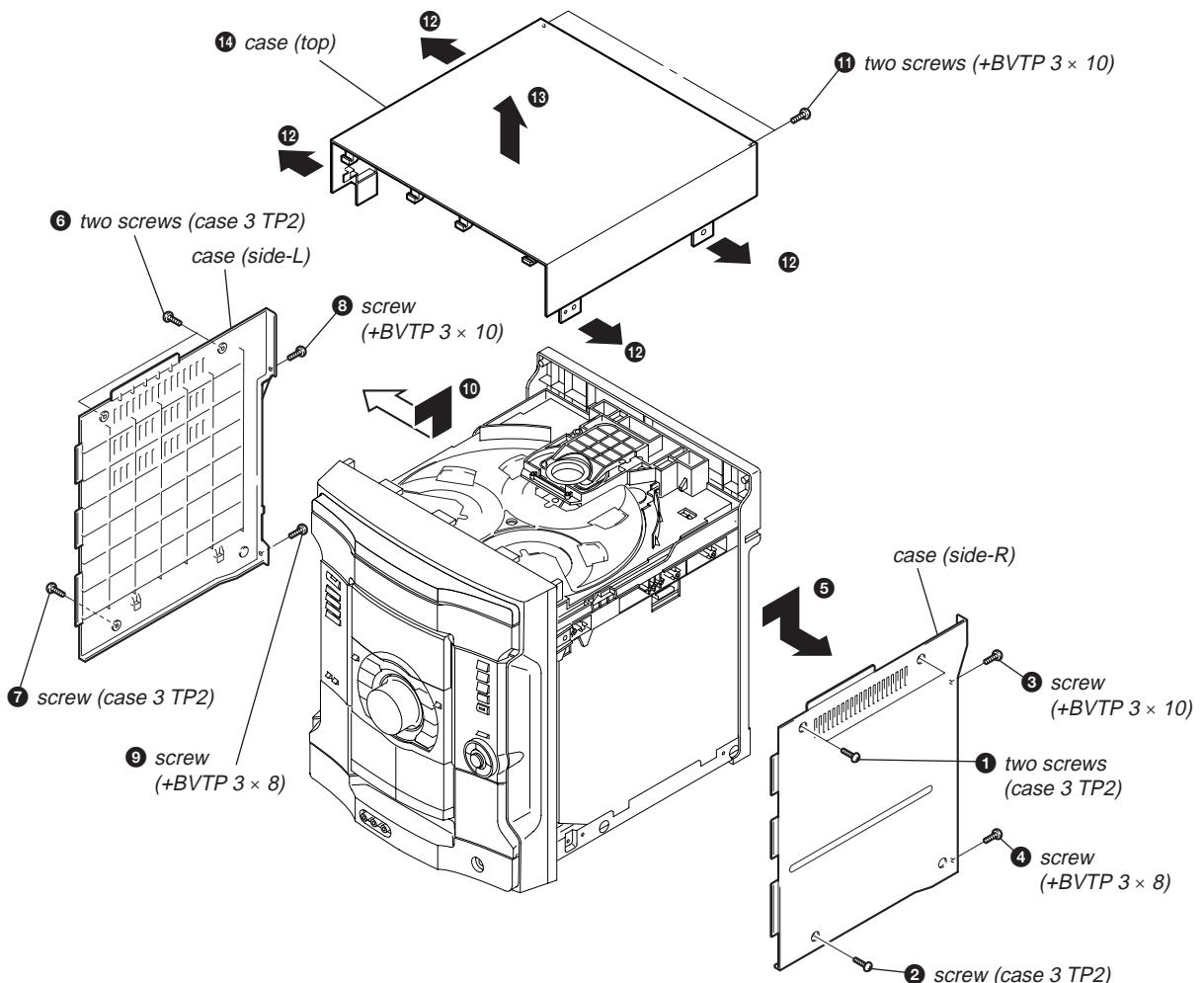
**SECTION 2
DISASSEMBLY**

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

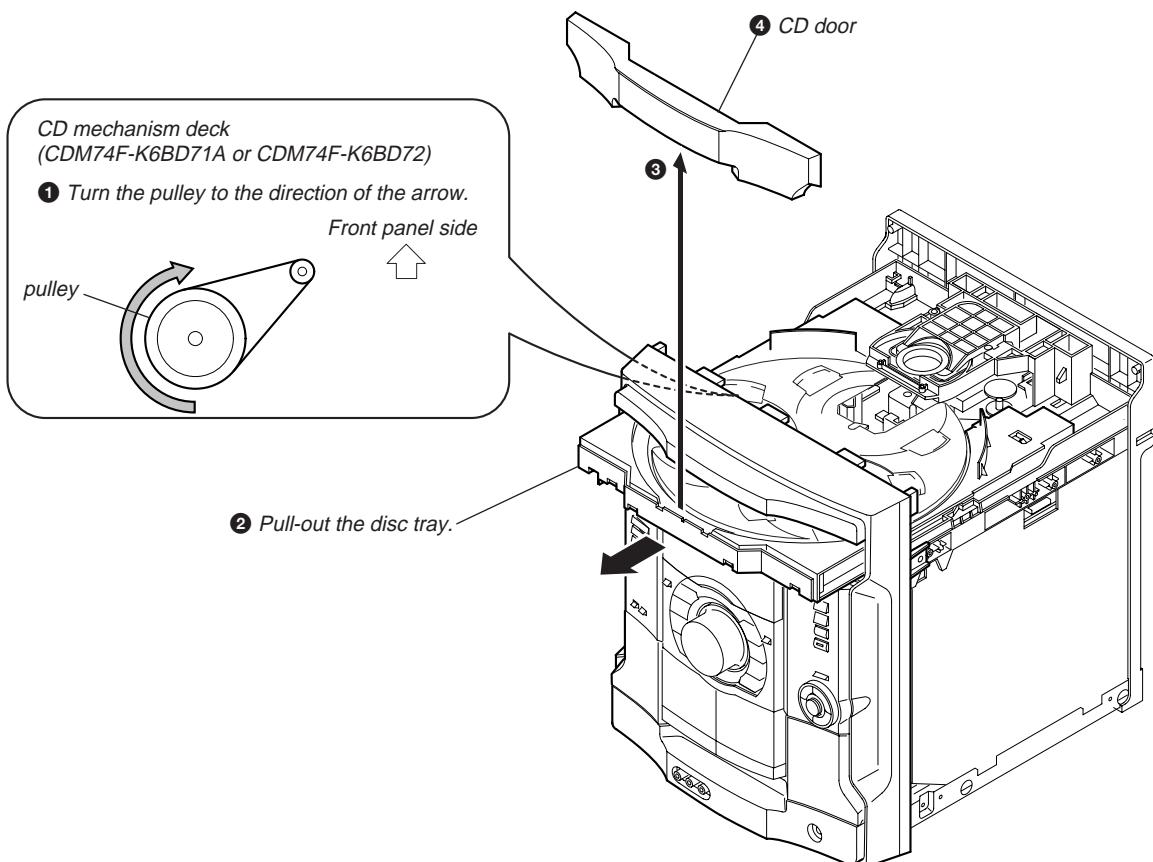


Note : Follow the disassembly procedure in the numerical order given.

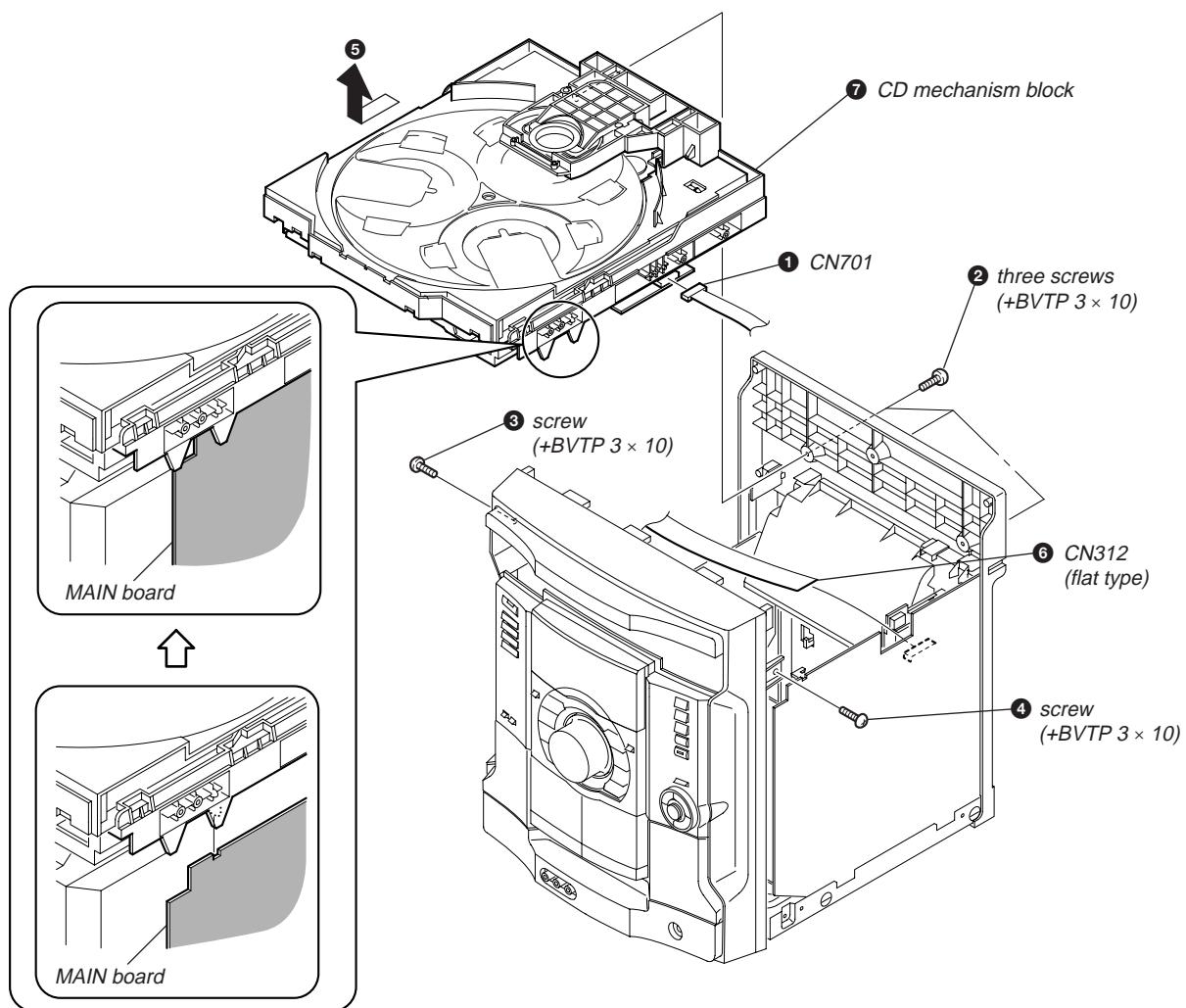
2-1. CASE (TOP)



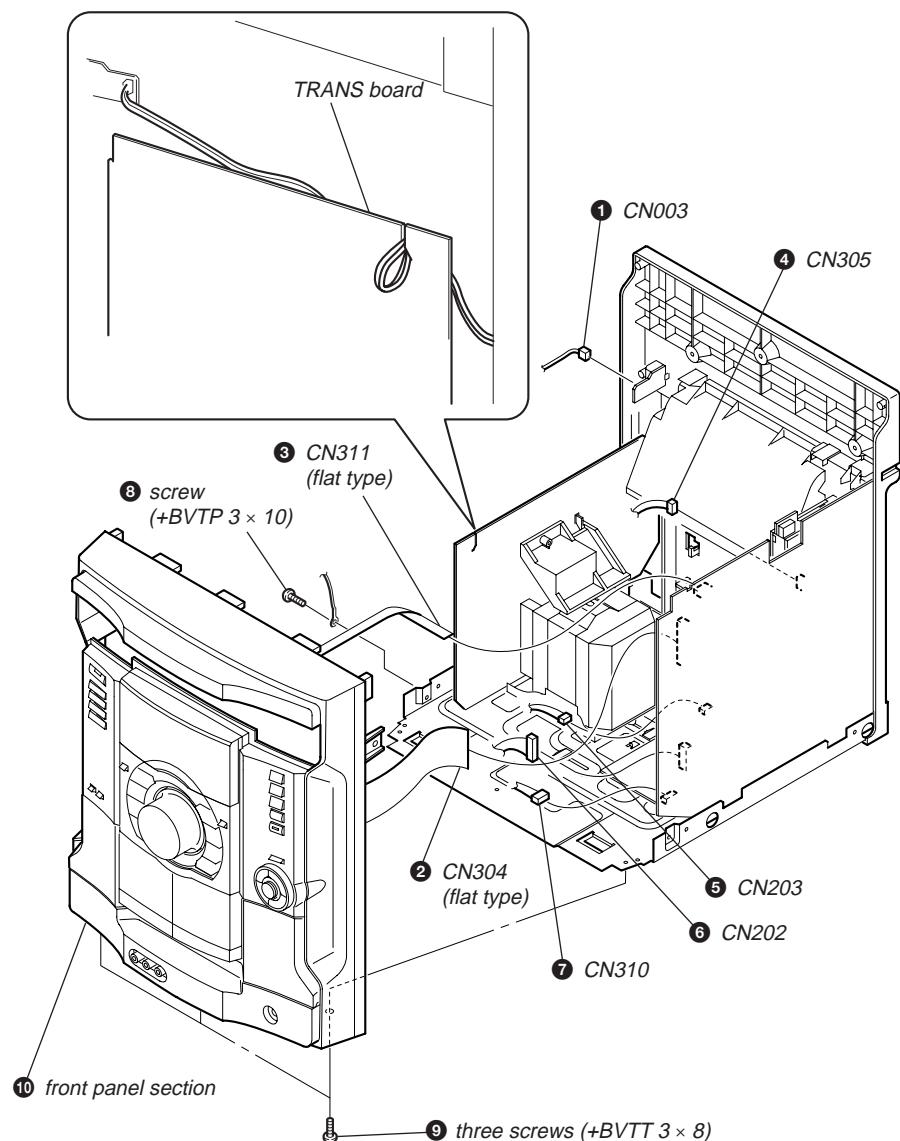
2-2. CD DOOR



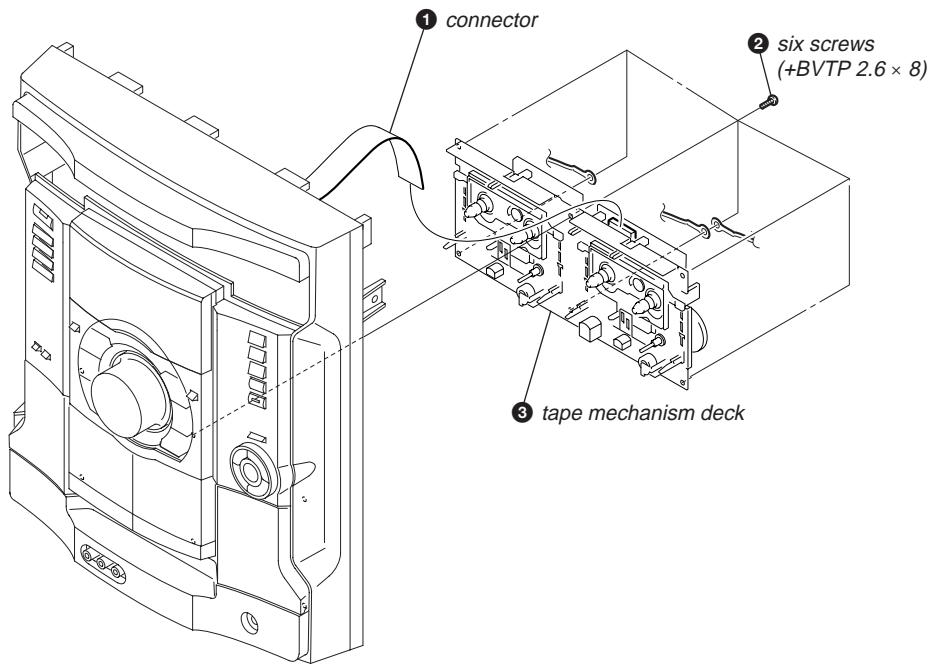
2-3. CD MECHANISM BLOCK



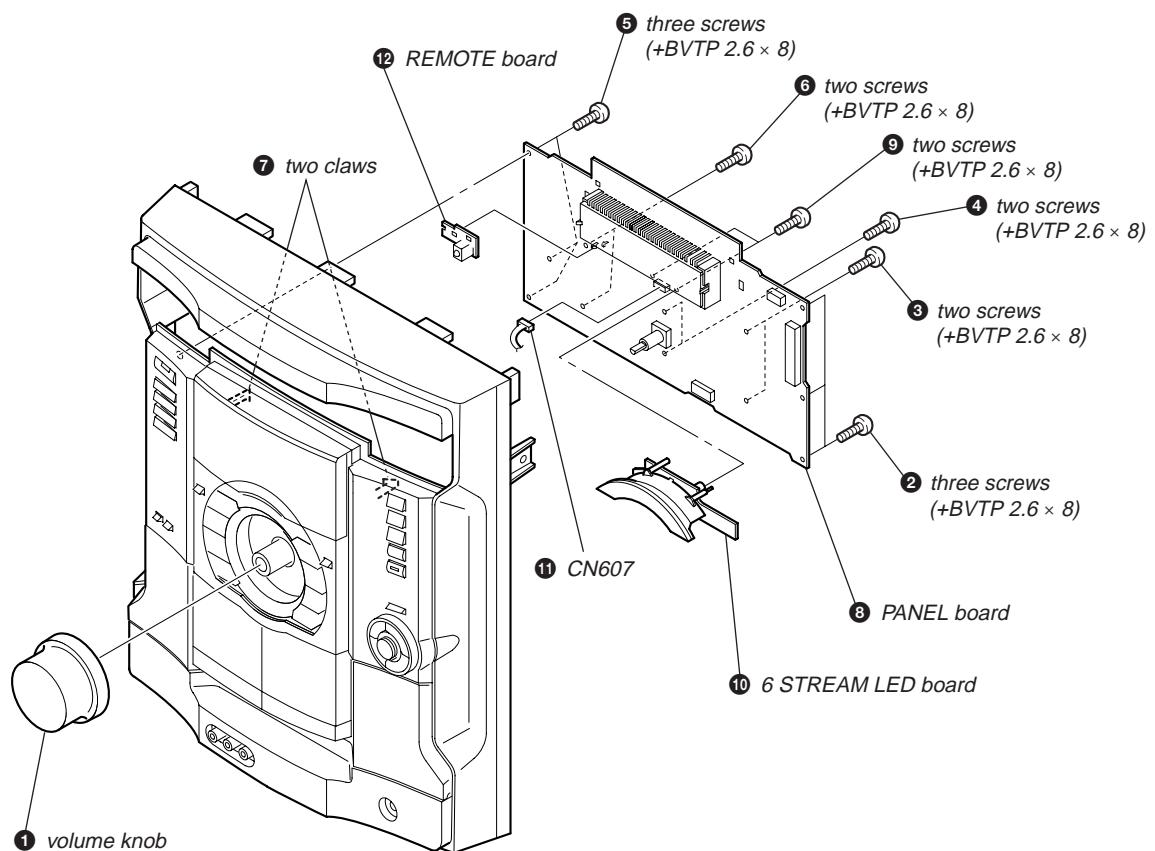
2-4. FRONT PANEL SECTION



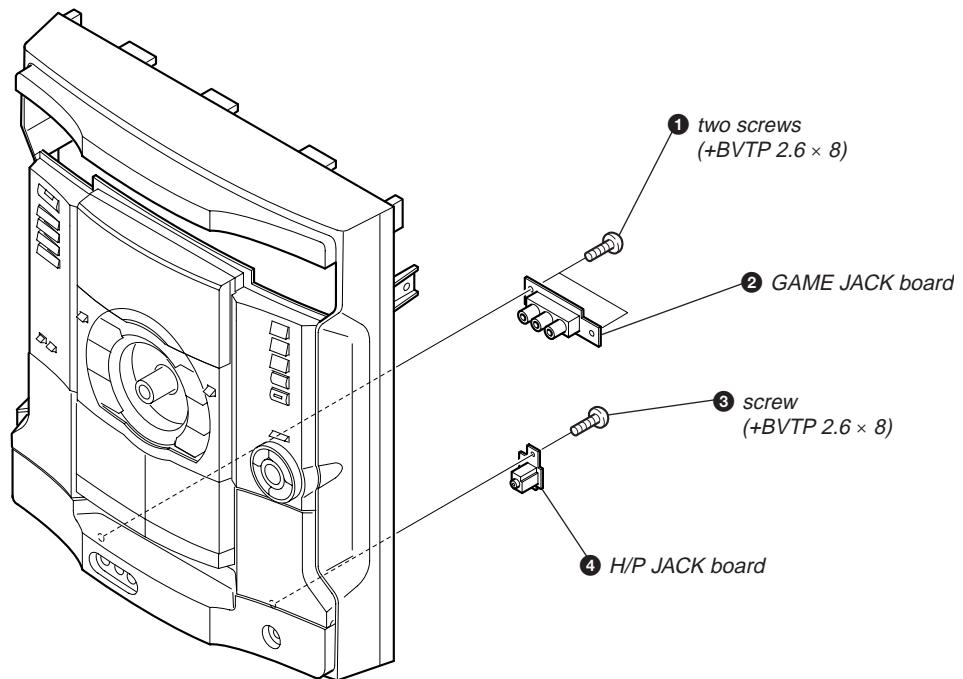
2-5. TAPE MECHANISM DECK



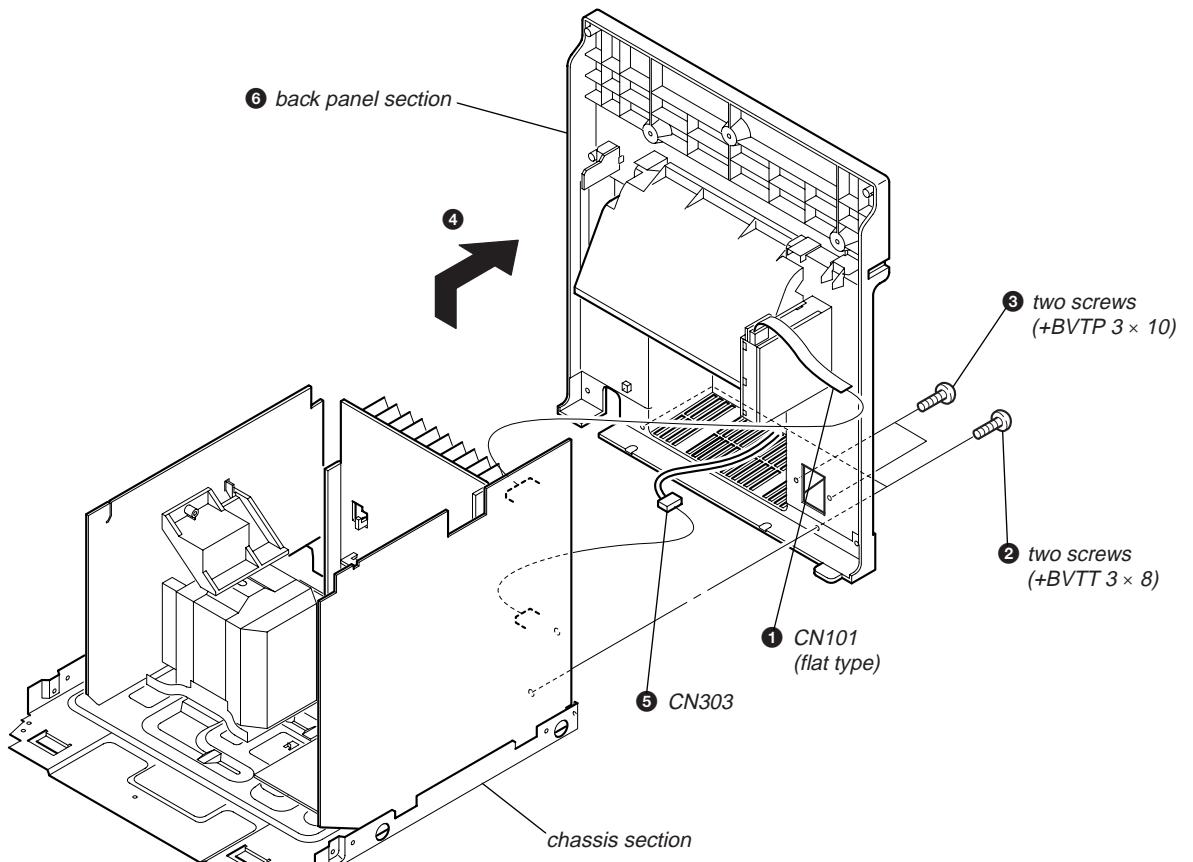
2-6. PANEL BOARD, 6 STREAM LED BOARD, REMOTE BOARD



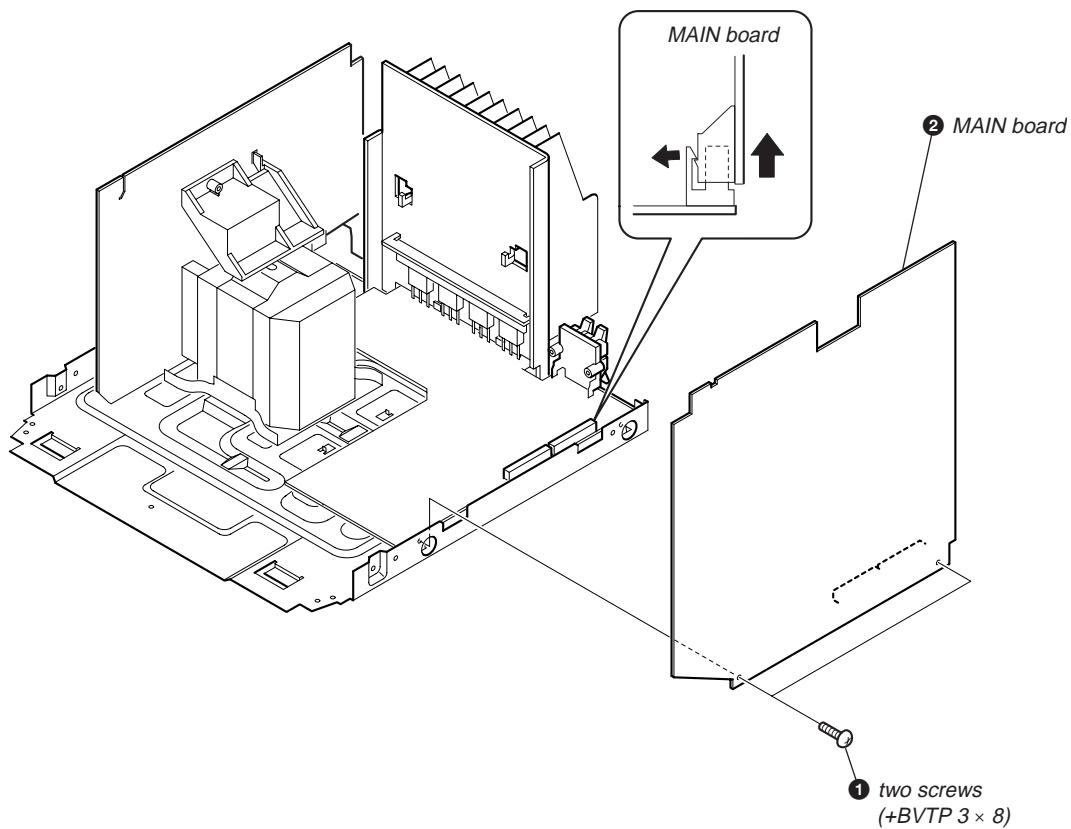
2-7. GAME JACK BOARD, H/P JACK BOARD



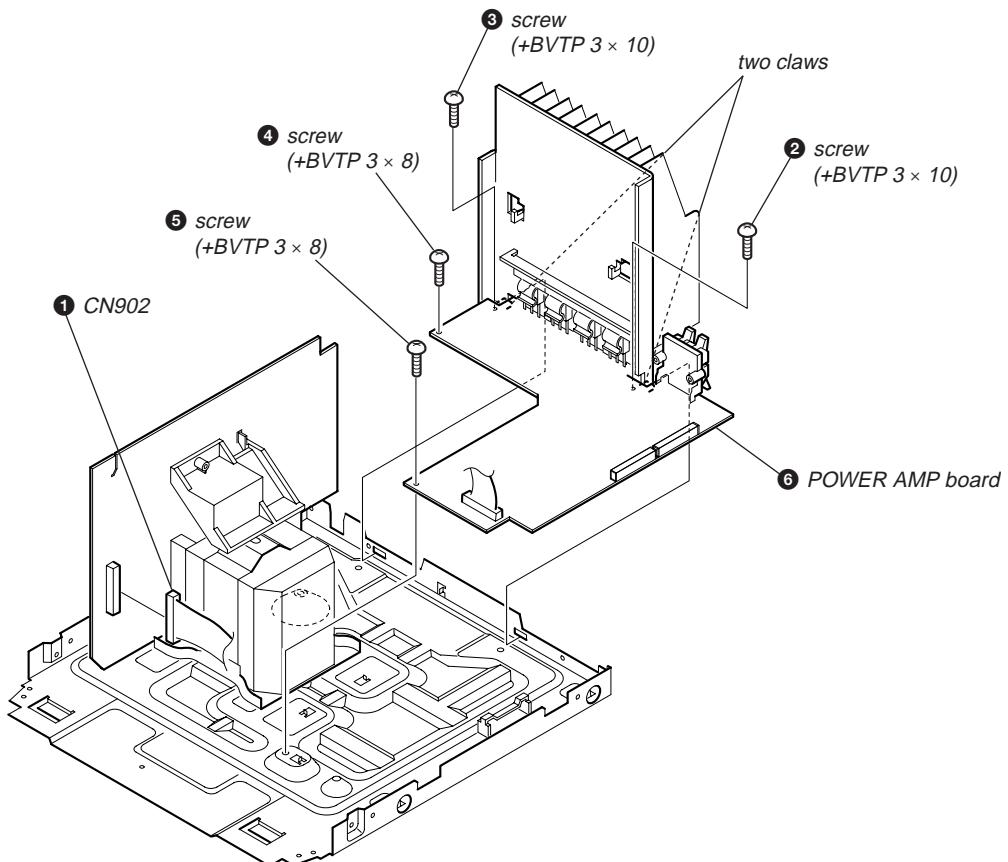
2-8. BACK PANEL SECTION



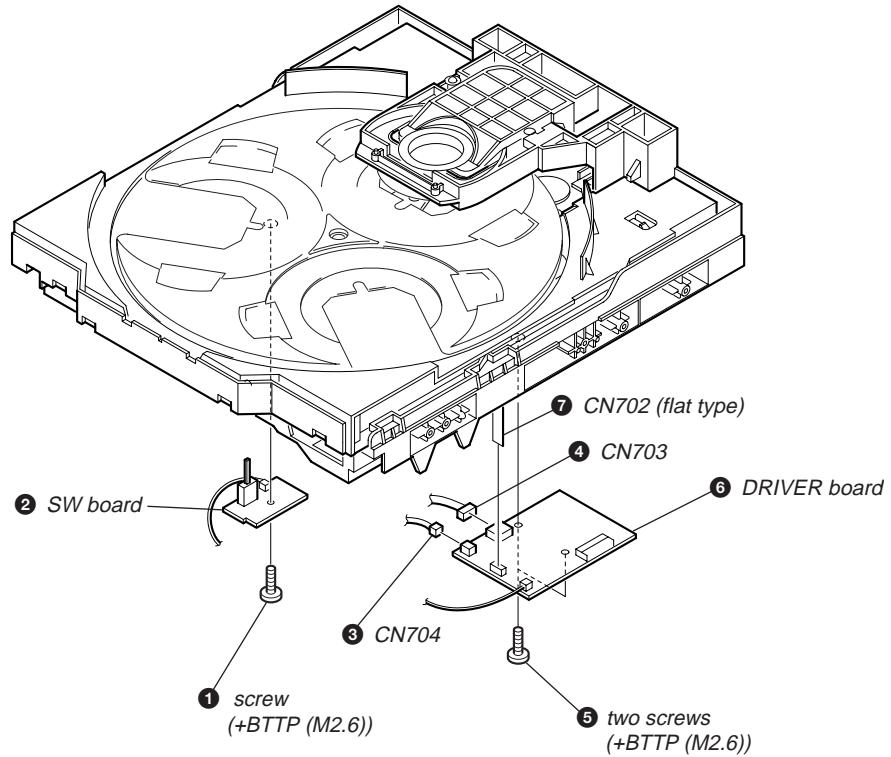
2-9. MAIN BOARD



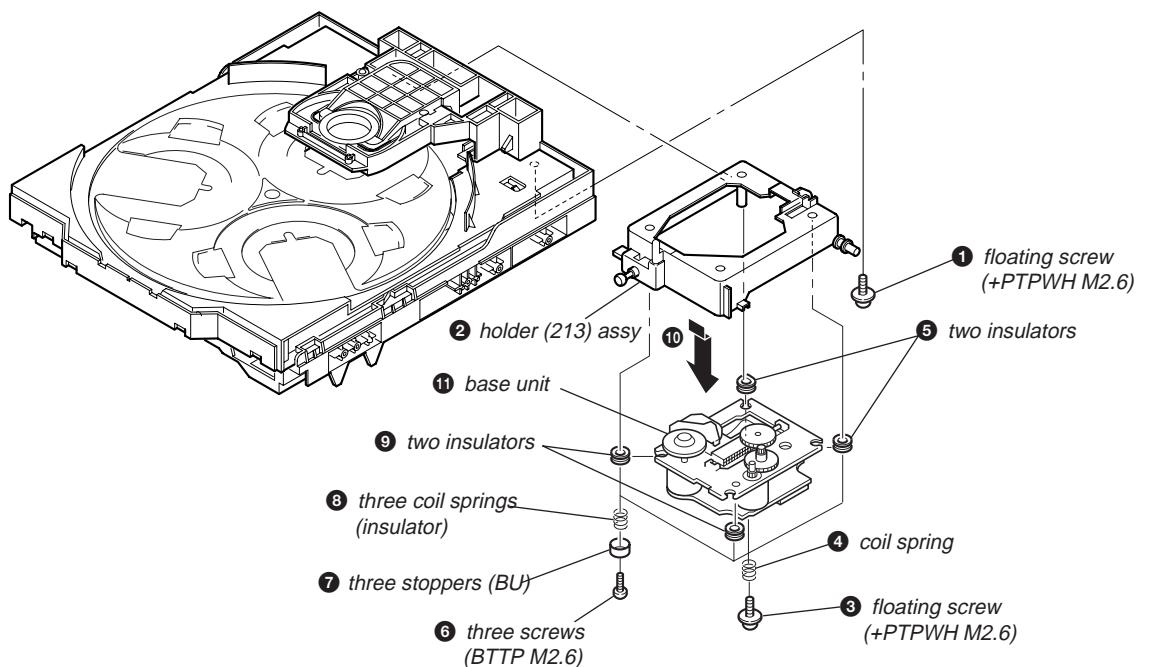
2-10. POWER AMP BOARD



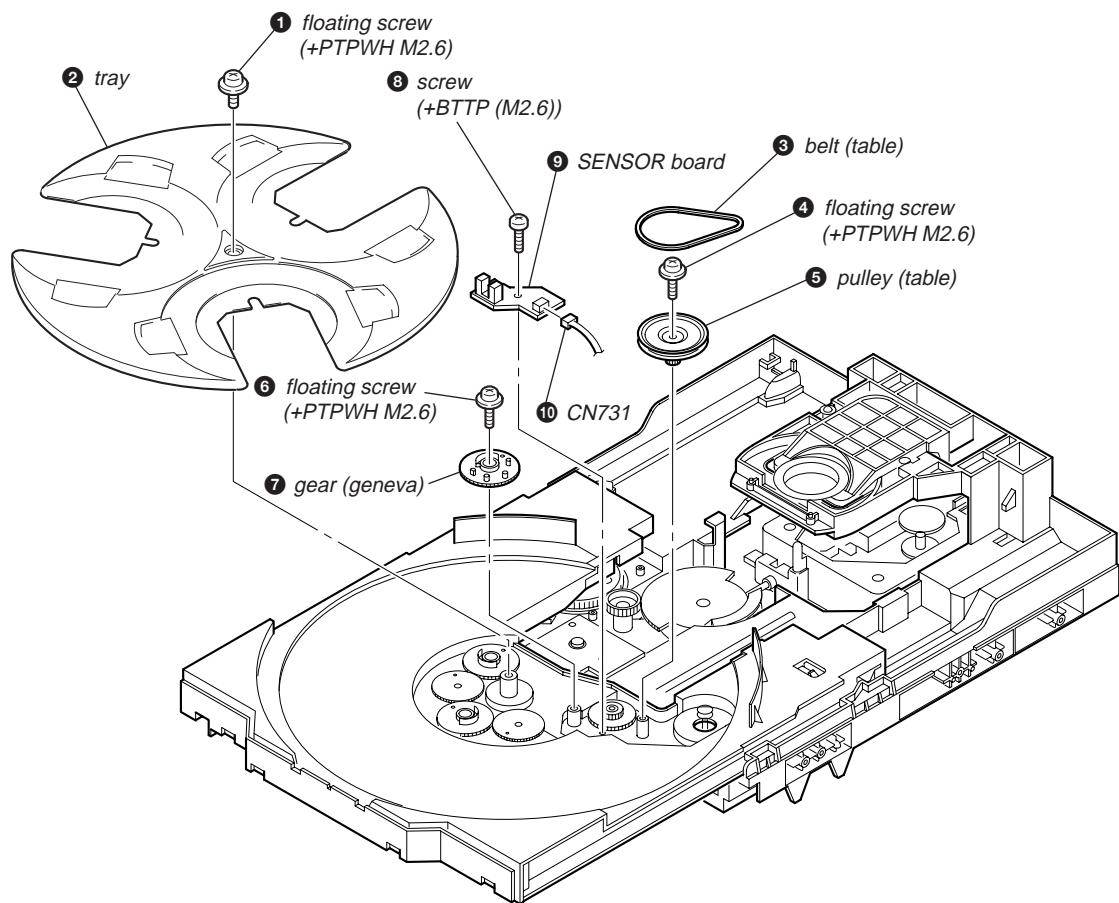
2-11. SW BOARD, DRIVER BOARD



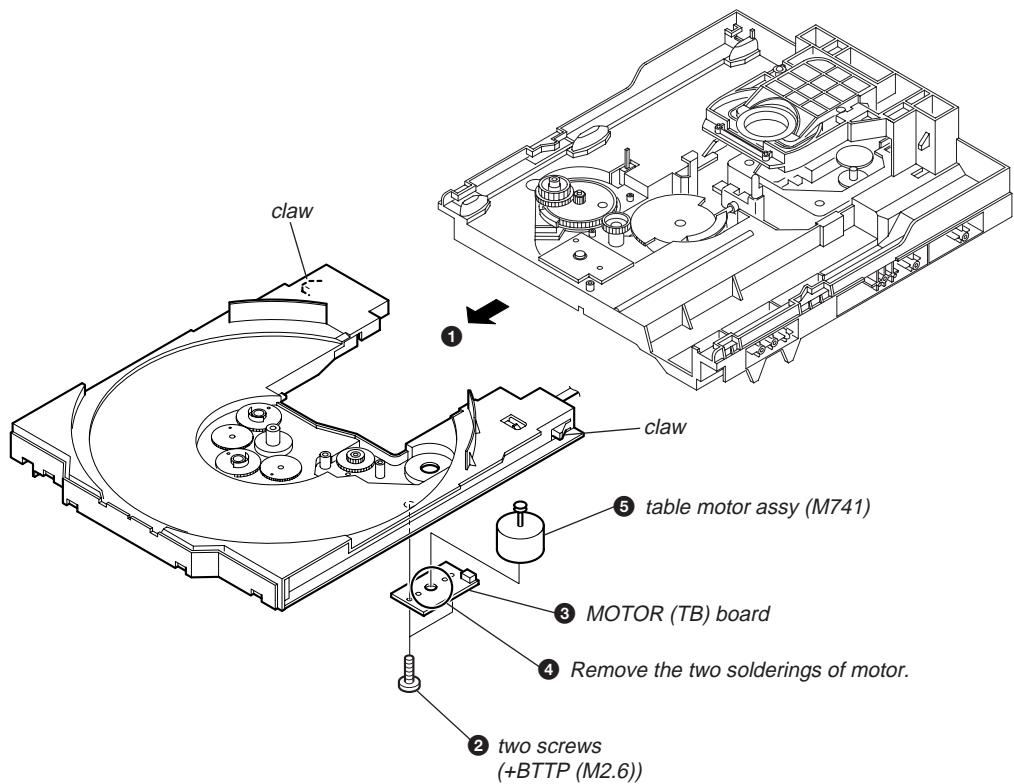
2-12. BASE UNIT



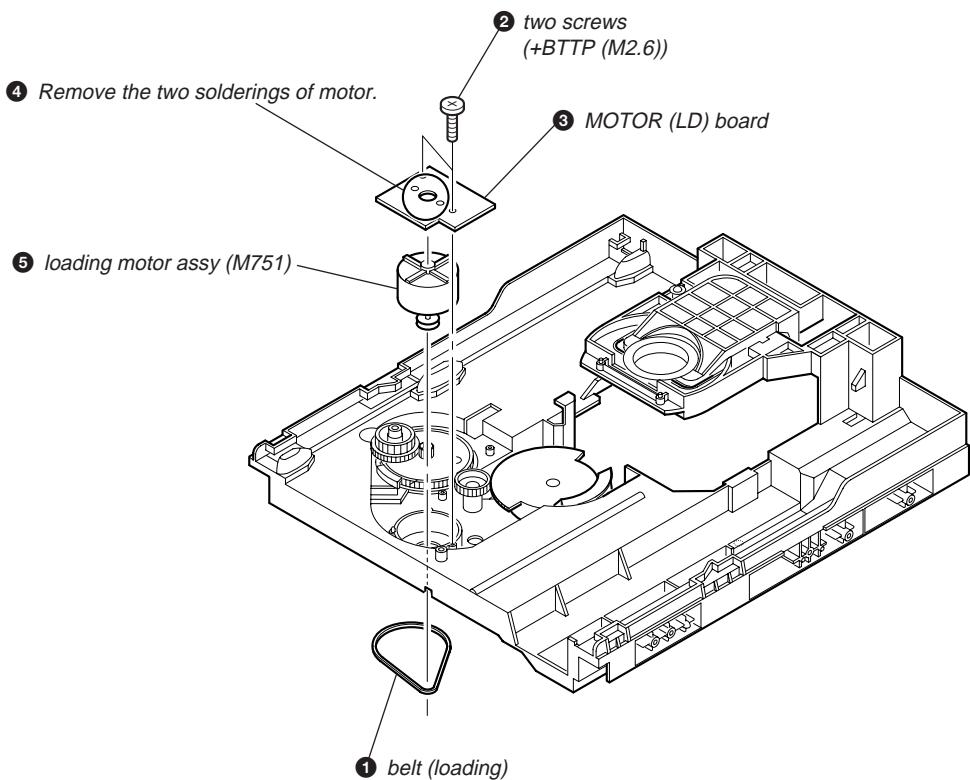
2-13. SENSOR BOARD



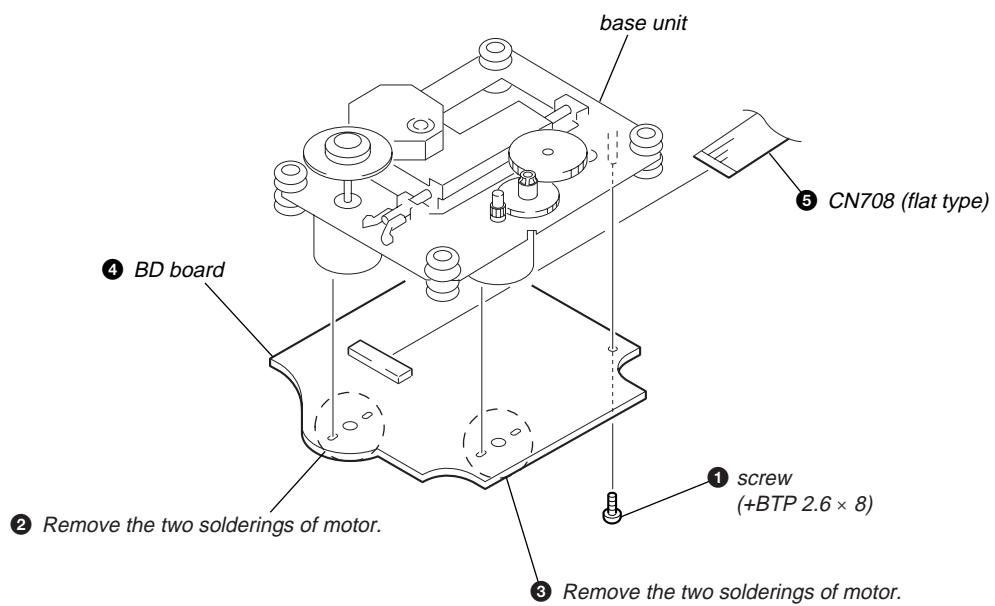
2-14. MOTOR (TB) BOARD



2-15. MOTOR (LD) BOARD



2-16. BD BOARD



SECTION 3

TEST MODE

[COLD RESET]

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

Procedure:

1. Press the **[POWER]** key to turn the power ON.
2. Press three keys of **[■]**, **[GROOVE]** and **[POWER]** simultaneously.
3. The message “COLD RESET” is displayed on the fluorescent indicator tube momentarily, then becomes standby states.

[TUNER STEP CHANGE-OVER]

(Except AEP and UK models)

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

Procedure:

1. Press the **[POWER]** key to turn the power ON.
2. Press the **[TUNER BAND]** key to select “AM”.
3. Press the **[POWER]** key to turn the power OFF.
4. Press two keys of **[TUNER/BAND]** and **[POWER]** simultaneously.
5. The message “9K STEP” or “10K STEP” is displayed on the fluorescent indicator tube, and thus the channel step is changed over.

[CD SHIP MODE]

- 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 the **[POWER]** key to turn the power ON.
2. Press the **[CD]** key to select “CD”.
3. Press two keys of **[CD]** and **[POWER]** simultaneously.
4. The message “LOCK” is displayed on the fluorescent indicator tube, and the CD ship mode is set.

[CD TRAY LOCK MODE]

- This mode is used to unable to take sample disc out of tray in the shop.

Procedure:

1. Press the **[POWER]** key to turn the power ON.
2. Press the **[CD]** key to select “CD”.
3. Set disc on the tray.
4. While pressing the **[■]** key, press the **[▲]** key for 5 seconds.
5. The message “LOCKED” is displayed on the fluorescent indicator tube and the tray is locked. (Even if pressing the **[▲]** key, the message “LOCKED” is displayed on the fluorescent indicator tube and the tray is locked)
6. To release from this mode, while pressing the **[■]** key, press the **[▲]** key for 5 seconds.
7. The message “UNLOCKED” is displayed on the fluorescent indicator tube and the tray is unlocked.

[AMP TEST MODE]

- This mode is used to set the parameter of AMP IC for adjustment of tone quality and VACS level and display VACS status.

Procedure:

1. Press the **[POWER]** key to turn the power ON.
2. Press three keys of **[■]**, **[GAME EQ]** and **[EFFECT ON/OFF]** simultaneously.
3. When the AMP test mode is activated, the message “AMP TEST” is displayed on the fluorescent indicator tube momentarily.
4. Press two keys of **[GAME EQ]** and **[DISC 2]** simultaneously, mode is changed over to parameter setting of AMP IC and display of VACS status.
5. When the VACS status, the message VACS level, VACS signal level, and VACS signal hold level is displayed on the fluorescent indicator tube.
6. Press the **[GROOVE]** key, DBFB ON/OFF is changed over.
7. Press the **[GAME MIXING]** key, surround ON/OFF is changed over.
8. To release from this mode, press two keys of **[GAME EQ]** and **[MOVIE EQ]** simultaneously.

[AGING MODE]

- This mode can be used for operation check of CD section and tape deck section.
- CD section and tape deck section work in parallel.

If an error occurred:

The aging operation stops only an error occurred sections and display then status.

If no error occurs:

The aging operation continues repeatedly.

Procedure:

- Press the [POWER] key to turn the power ON.
- Press the [CD] key to select "CD".
- Set disc on the tray and set tape into the deck.
- Set the "ALL DISCS" mode and "REV OFF" mode.
- Press three keys of [], [GAME EQ] and [DISC SKIP/EX-CHANGE] simultaneously.
- The message "AGING" is displayed on the fluorescent indicator tube momentarily, then aging operations of CD and tape are started at the same time.
- To release from this mode, operate the "COLD RESET".

1. Display at the Aging Mode

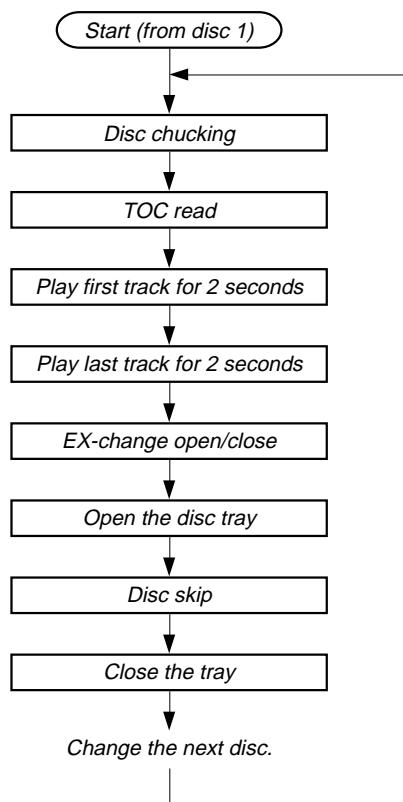
Display operating state of CD section and tape deck section alternately.

If an error occurred, stop display which that section.

2. CD Section

The sequence during the aging mode is following as below.
Display at the aging mode is the same as the normal operation.

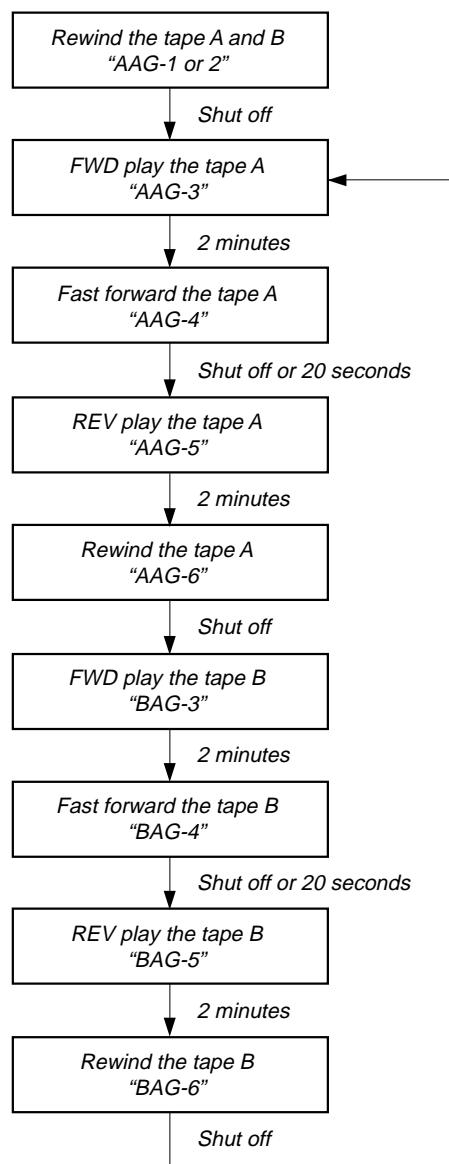
Aging mode sequence (CD section) :



3. Tape Deck Section

The sequence during the aging mode is following as below.
If an error occurred, stop display that step.

Aging mode sequence (tape deck section) :



Note: “*AG-*” is display of each step.

[GC TEST MODE]

- This mode is used to check the fluorescent indicator tube, LED and key.

Procedure:

1. Press the **[POWER]** key to turn the power ON.
2. Press three keys of **[■]**, **[GAME EQ]** and **[DISC 2]** simultaneously.
3. Fluorescent indicator tube and LEDs are all turned ON.
4. Press two keys of **[GAME EQ]** and **[DISC 2]** simultaneously, mode is changed over.
5. In the key check mode, press each key, the defined key number of every each key list is displayed on the fluorescent indicator tube.
6. In the key count check mode, “KEYCNT 0” is displayed on the fluorescent indicator tube. Each time a key is pressed, “KEYCNT” value increases. However, once a key is pressed, it is no longer taken into account.
7. In the headphone input check mode, connect the headphone, the message “H_P ON” is displayed on the fluorescent indicator tube, and disconnect the headphone, the message “H_P OFF” is displayed on the fluorescent indicator tube.
8. In the volume check mode, turn the **[VOLUME]** knob, the display on the fluorescent indicator tube is changed over to “VOLUME UP”, “VOLUME FLAT” or “VOLUME DOWN”

[MC TEST MODE]

- This mode is used to check operations of Amplifier.

Procedure:

1. Press the **[POWER]** key to turn the power ON.
2. Press three keys of **[■]**, **[GAME EQ]** and **[DISC 3]** simultaneously.
3. When the MC test mode is activated, the message “TEST MODE” is displayed on the fluorescent indicator tube momentarily, then VACS level is displayed on the fluorescent indicator tube.
4. Press the **[MUSIC EQ]** key, the display on the fluorescent indicator tube is changed over to “GEQ MAX”, press the **[EFFECT ON/OFF]** key, the display on the fluorescent indicator tube is changed over to “GEQ FLAT”, press the **[MOVIE EQ]** key, the display on the fluorescent indicator tube is changed over to “GEQ MIN”.
5. Turn the **[VOLUME]** knob, the display on the fluorescent indicator tube is changed over to “VOLUME MAX”, “VOLUME 16” or “VOLUME MIN”.
6. Press the **[GROOVE]** key, VACS ON/OFF is changed over.
7. When the **[REC PAUSE/START]** key is pressed with a tape set in the deck-B, the function is switched “MD” or “VIDEO” and recording starts. When the **[◀]** or **[▶]** key is pressed during recording, the tape is rewound back to the beginning of recording, the function is switched to “TAPE B”, then playback starts.
8. When the **[CD SYNC]** key is pressed with the test tape (AMS-100, AMS-110A) in the deck, number of space between tunes is counted, then if AMS-110A is set, “OK” is displayed on the fluorescent indicator tube and if AMS-100 is set, “NG” is displayed on the fluorescent indicator tube.
9. To release from this mode, press the **[POWER]** key.

[MODEL, DESTINATION AND VERSION DISPLAY]

- This mode is used to check the model, destination and software version.

Procedure:

1. Set to the standby state.
2. Press three keys of **[■]**, **[GAME EQ]** and **[MOVIE EQ]** simultaneously.
3. When the model, destination and version display mode is activated, the model and destination is displayed on the fluorescent indicator tube.
4. Press two keys of **[GAME EQ]** and **[DISC 2]** simultaneously, mode is changed over to model and destination display mode and version display mode.
5. To release from this mode, press the two keys of **[GAME EQ]** and **[MOVIE EQ]** simultaneously.

[CD ERROR CODE DISPLAY]

- This mode can be used for error display of CD section.

Procedure:

1. Press the **[POWER]** key to turn the power ON.
2. Press the **[CD]** key to select “CD”.
3. Press three keys of **[■]**, **[GAME EQ]** and **[DISC 1]** simultaneously.

Note: Error code is not displayed on the fluorescent indicator tube.

[CD SERVICE MODE]

- This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the optical pick-up.

Procedure:

1. Press the **[POWER]** key to turn the power ON.
2. Press the **[CD]** key to select “CD”.
3. Press three keys of **[■]**, **[GAME EQ]** and **[▲]** simultaneously.
4. When the CD service mode is activated, the message “TRAVERS ON” is displayed on the fluorescent indicator tube.
5. Press the **[▶]** key, optical pick-up move to outside track and the message “SLED OUT” is displayed on the fluorescent indicator tube.
6. Press the **[◀]** key, optical pick-up move to inside track and the message “SLED IN” is displayed on the fluorescent indicator tube..
7. Press the **[MOVIE EQ]** key, traverse ON/OFF is changed over.

[5 REPEAT LIMIT CANCEL]

- Number of repeat for CD playback is 5 times when the repeat mode is “REPEAT”. This mode is used to enables CD to repeat playback for limitless times.

Procedure:

1. Press the **[POWER]** key to turn the power ON.
2. Press the **[CD]** key to select “CD”.
3. Press three keys of **[■]**, **[GAME EQ]** and **[▷]** simultaneously.

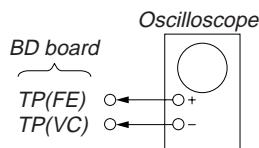
SECTION 4 ELECTRICAL ADJUSTMENTS

CD SECTION

Note:

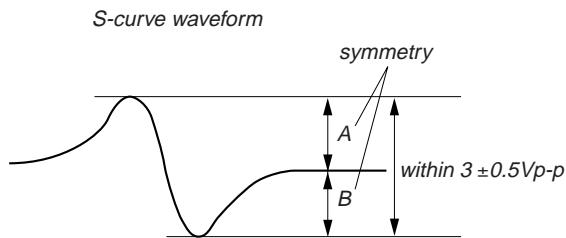
1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MW impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal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

S-CURVE CHECK



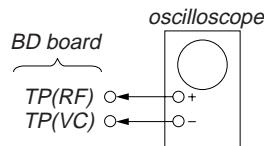
Procedure :

1. Connect an oscilloscope to TP (FE) and TP (VC).
2. Turn the power on.
3. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
4. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3 ± 0.5 Vp-p.



- 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.

RF LEVEL CHECK

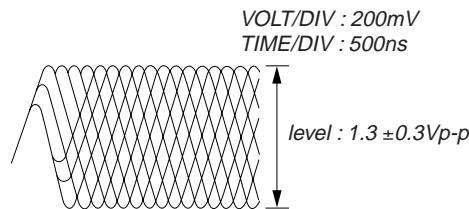


Procedure :

1. Connect an oscilloscope to TP (RF) and TP (VC).
2. Turn the power on.
3. Load a disc (YEDS-18) and playback.
4. Confirm that oscilloscope waveform is clear and check if RF signal level is correct or not.

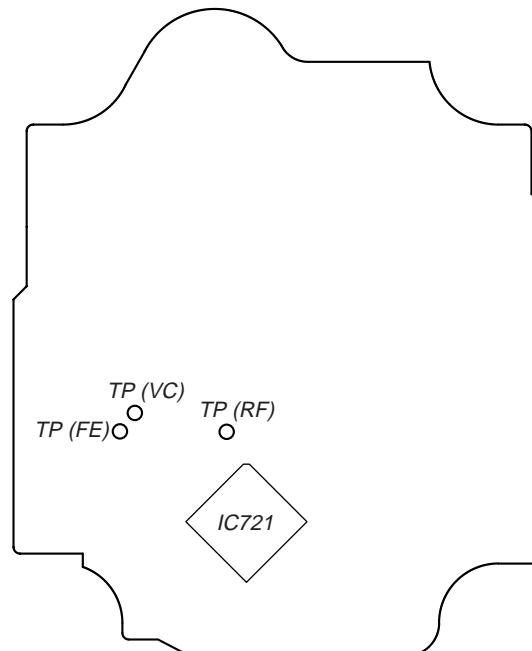
Note: Clear RF signal waveform means that the shape “◊” can be clearly distinguished at the center of the waveform.

RF signal waveform

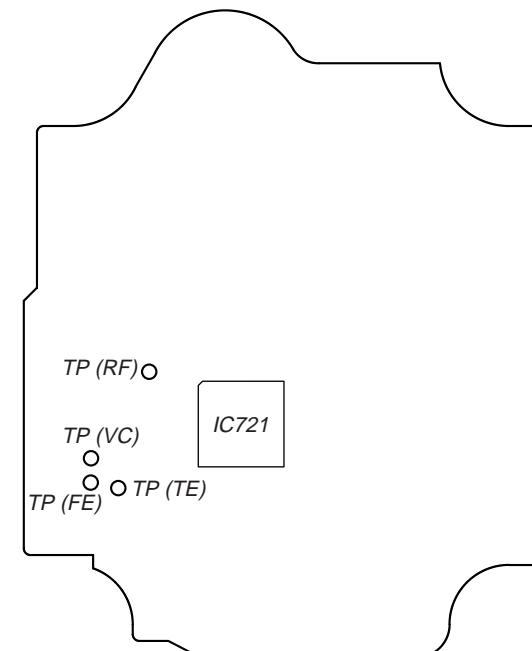


Connecting Location: BD board

- **HCD-RG330: Mexican, Argentina Model**
– BD Board (Conductor side) –



- **HCD-GX35/RG310/RG330: AEP, UK, E2, E51 Model**
– BD Board (Conductor side) –



SECTION 5 DIAGRAMS

5-1. IC PIN DESCRIPTIONS

• IC309 BU2099FV (MULTI CONTROLLER) (MAIN BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	VSS	—	Ground pin
2	NC	—	Not used. (Open)
3	DATA	I	Serial data input from the tape mechanism controller
4	CLOCK	I	Serial data transfer clock signal input from the system controller
5	LCK	I	Serial data latch pulse clock signal input from the system controller
6	$\overline{\text{REC}}$	O	Recording on/off control signal output “L”: recording
7	$\overline{\text{BIAS}}$	O	Recording bias on/off control signal output “L”: bias on
8	$A\bar{B}$	O	Deck-A/B selection signal output to the deck-A/B select switch “L”: deck-B, “H”: deck-A
9	PB MUTE	O	Playback muting on/off control signal output to the recording/playback equalizer amplifier “H”: muting on
10	$\overline{\text{REC MUTE}}$	O	Recording muting on/off control signal output to the recording/playback equalizer amplifier “L”: muting on
11	TUNER MUTE	O	Tuner muting on/off control signal output to the tuner unit “H”: muting on
12	LM-R (CD)	O	Loading motor drive signal output
13	LM-L (CD)	O	Loading motor drive signal output
14	TM-R (CD)	O	Table motor drive signal output
15	TM-L (CD)	O	Table motor drive signal output
16	SP RELAY	O	Front speaker on/off relay drive control signal output “L”: front speaker on
17	LINK/MATRIX	O	Surround speaker on/off relay drive control signal output “H”: surround speaker on
18	SO	O	Serial data output to the bass boost controller
19	$\overline{\text{OE}}$	—	Not used. (Connect to ground.)
20	VDD	—	Power supply pin (+3.3 V)

HCD-GX35/RG310/RG330

• IC310 BU2099FV (BASS BOOST CONTROLLER) (MAIN BOARD) (HCD-RG310/RG330: AEP, UK MODEL)

Pin No.	Pin Name	I/O	Pin Description
1	VSS	—	Ground pin
2	NC	—	Not used. (Open)
3	DATA	I	Serial data input from the multi controller
4	CLOCK	I	Serial data transfer clock signal input from the system controller
5	LCK	I	Serial data latch pulse clock signal input from the system controller
6 to 8	NC	—	Not used. (Open)
9	MOTOR VCC	O	Motor power control signal output “L”: motor power on
10	SOL A	O	SOL-A control signal output
11	SOL B	O	SOL-B control signal output
12	LINE OUT MUTE	O	Line out mute signal output terminal “H”: mute on Not used in this set. (Open)
13	CD MUTE	O	CD mute signal output terminal “H”: mute on Not used in this set. (Open)
14 to 16	CONT 1 to 3	O	Bass boost control signal output “H”: bass boost Not used in this set. (Open)
17	NC	—	Not used. (Open)
18	SO	O	Serial data output Not used. (Open)
19	<u>OE</u>	—	Not used. (Connect to ground.)
20	VDD	—	Power supply pin (+3.3 V)

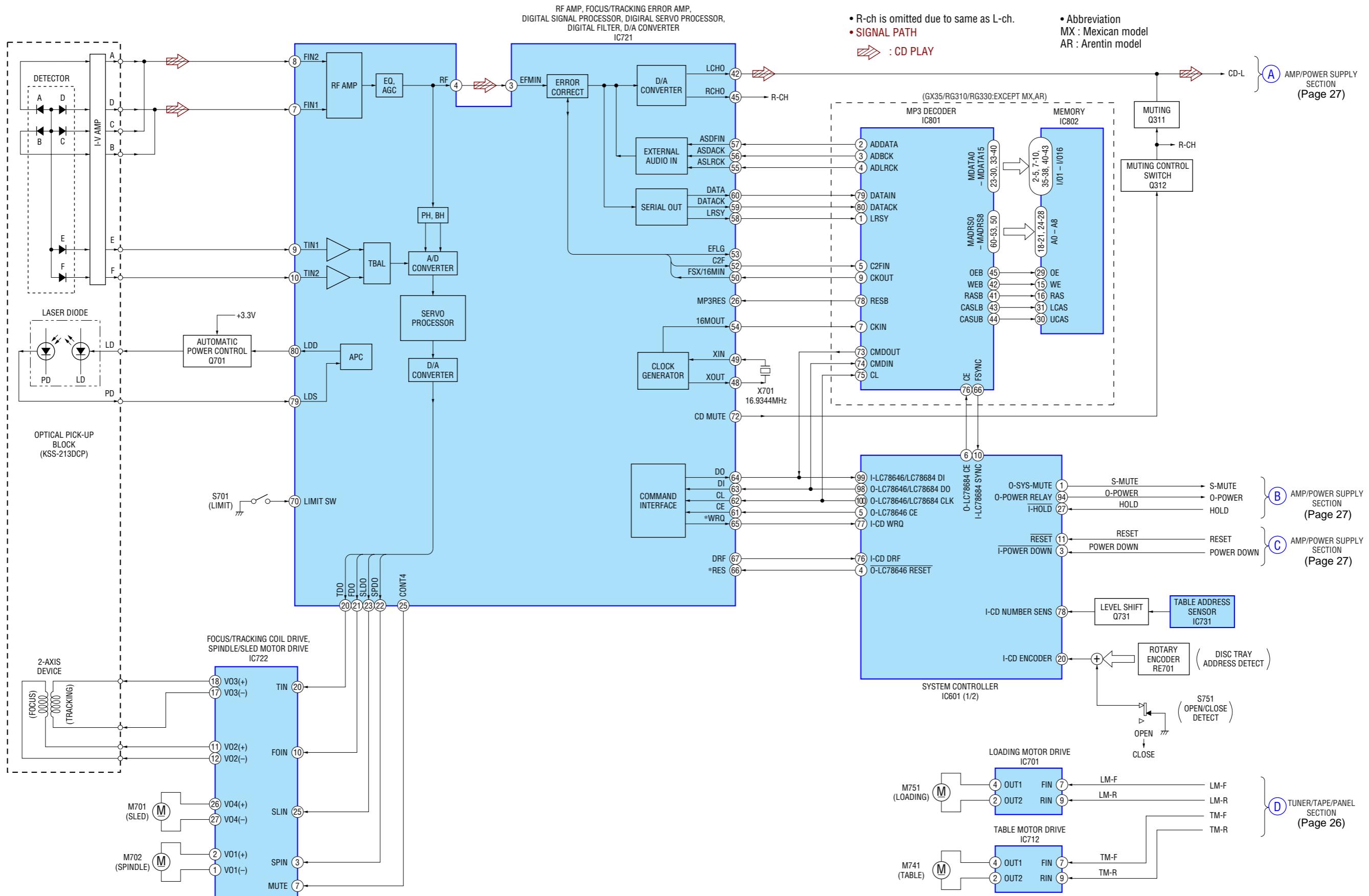
• IC601 LC876780B-51YO-E (SYSTEM CONTROL, FLD CONTROL) (PANEL BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	SYS MUTE	O	System mute signal output
2	BU1924 DATA	I	GX35, RG330 (except AEP, UK): Not used. (Connected to ground.) RG310/RG330 (AEP, UK): Serial data signal input
3	PWR DOWN	I	Power down signal input
4	LC78646 RESET	O	CD reset signal output
5	LC78646 CE	O	CD CE signal output
6	LC78684 CE (MP3)	O	CD CE (MP3) signal output
7	M61519 CLK	O	Clock signal output
8	BU2099FV LCK	O	LCK signal output
9	LC72121 CE	O	CE signal output
10	LC78684 SYNC	I	SYNC signal input
11	RESET	I	Reset signal input from the reset IC
12	XT1	I	Oscillater connect pin (32.768 kHz)
13	XT2	O	Oscillater connect pin (32.768 kHz)
14	VSS1	—	Ground pin
15	CF1	I	Ceramic vibrator connect pin (8.64 MHz)
16	CF2	O	Ceramic vibrator connect pin (8.64 MHz)
17	VDD1	—	Power supply pin (+3.3 V)
18	TAPE A STAT	I	Tape A start signal input
19	TAPE B STAT	I	Tape B start signal input
20	CD ENCODER	I	CD encoder switch signal input
21	SW ON/OFF SENSOR	I	Switch control on/off signal input
22	STREAM IN	I	Stream in signal input
23	VACS	I	VACS signal input
24	KEY2	I	Key signal input 2
25	KEY1	I	Key signal input 1
26	KEY0	I	Key signal input 0
27	PROTECTOR (HOLD)	I	Protector (Hold) signal input
28	REMOCON IN	I	Remote control signal input from the remote control receiver IC
29	BU1924 CLK	I	GX35, RG330 (except AEP, UK): Not used. (Connected to ground.) RG310/RG330 (AEP, UK): Serial clock signal input
30 to 41	G12 – G1	O	FLD control signal output
42 to 45	P1 – P4	O	FLD control signal output
46	VDD3	—	Power supply pin (+3.3 V)
47 to 50	P5 – P8	O	FLD control signal output
51	VPP	—	GX35, RG330 (except AEP, UK): Ground pin RG310/RG330 (AEP, UK): Power supply pin
52 to 55	P9 – P12	O	FLD control signal output
56	SW1 (a) P13	O	FLD control signal output
57	SW2 (b) P14	O	FLD control signal output
58	SW3 (c) P15	O	FLD control signal output
59	SW4 (d) P16	O	FLD control signal output
60	SW5 P17	O	FLD control signal output
61	SW6 P18	O	FLD control signal output
62	SW7 P19	O	FLD control signal output
63	SW8 P20	O	FLD control signal output
64, 65	P21, P22	O	FLD control signal output
66	ENTER LED	O	Not used in this set. (Open)
67	MD/VIDEO LED	O	Not used in this set. (Open)
68	GAME LED	O	GAME LED (LED612) drive signal output
69	TAPE LED	O	TAPE A/B LED (LED609) drive signal output

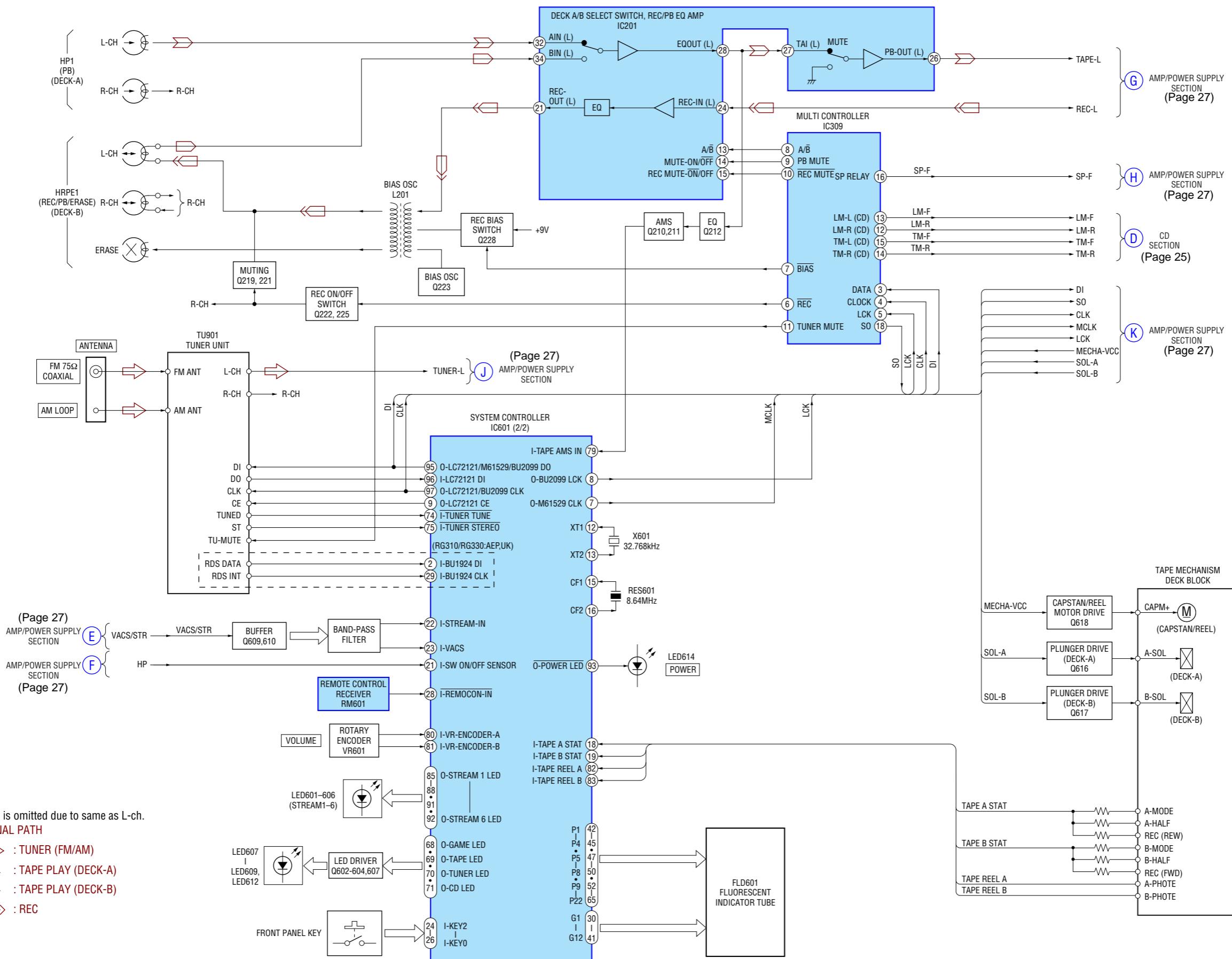
HCD-GX35/RG310/RG330

Pin No.	Pin Name	I/O	Pin Description
70	TUNER LED	O	TUNER/BAND LED (LED608) drive signal output
71	CD LED	O	CD LED (LED607) drive signal output
72	VDD4	—	Power supply pin (+3.3 V)
73	CD VDD	O	CD power control signal output
74	TUNER TUNED	I	Tuner tuning signal input from the tuner unit
75	TUNER STEREO	I	Tuner stereo signal input from the tuner unit
76	CD DRF	I	CD DRF signal input
77	CD WRQ	I	CD WRQ signal input
78	CD NUMBER SENSOR	I	CD number sensor signal input
79	TAPE AMS IN	I	Tape AMS signal input
80	VR ENCODER A	I	VR encoder (VR601) signal input
81	VR ENCODER B	I	VR encoder (VR601) signal input
82	TAPE REEL A	I	Tape reel A signal input
83	TAPE REEL B	I	Tape reel B signal input
84	MODE SW IN	I	Mode switch signal input
85	STREAM 1 LED	O	Stream LED drive signal output
86	STREAM 2 LED/CD MUTE	O	Stream LED drive signal output/CD mute signal output
87	STREAM 3 LED	O	Stream LED drive signal output
88	STREAM 4 LED/ MECHA VCC	O	Stream LED drive signal output/Mechanism power control signal output
89	VSS2	—	Ground pin
90	VDD2	—	Power supply pin (+3.3 V)
91	STREAM 5 LED/ TAPE SOL A	O	Stream LED drive signal output/Tape SOL-A drive signal output
92	STREAM 6 LED/ TAPE SOL B	O	Stream LED drive signal output/Tape SOL-B drive signal output
93	POWER LED	O	POWER LED (LED614) drive signal output
94	POWER RELAY	O	Power relay signal output
95	LC72121/M61529/ BU2099FV DO	O	Serial data signal output
96	LC72121 DI	I	Serial data signal input
97	LC72121/BU2099FV CLK	O	Serial clock signal output
98	LC78646/LC78684 DO	O	Serial data signal output
99	LC78646/LC78684 DI	I	Serial data signal input
100	LC78646/LC78684 CLK	O	Serial clock signal output

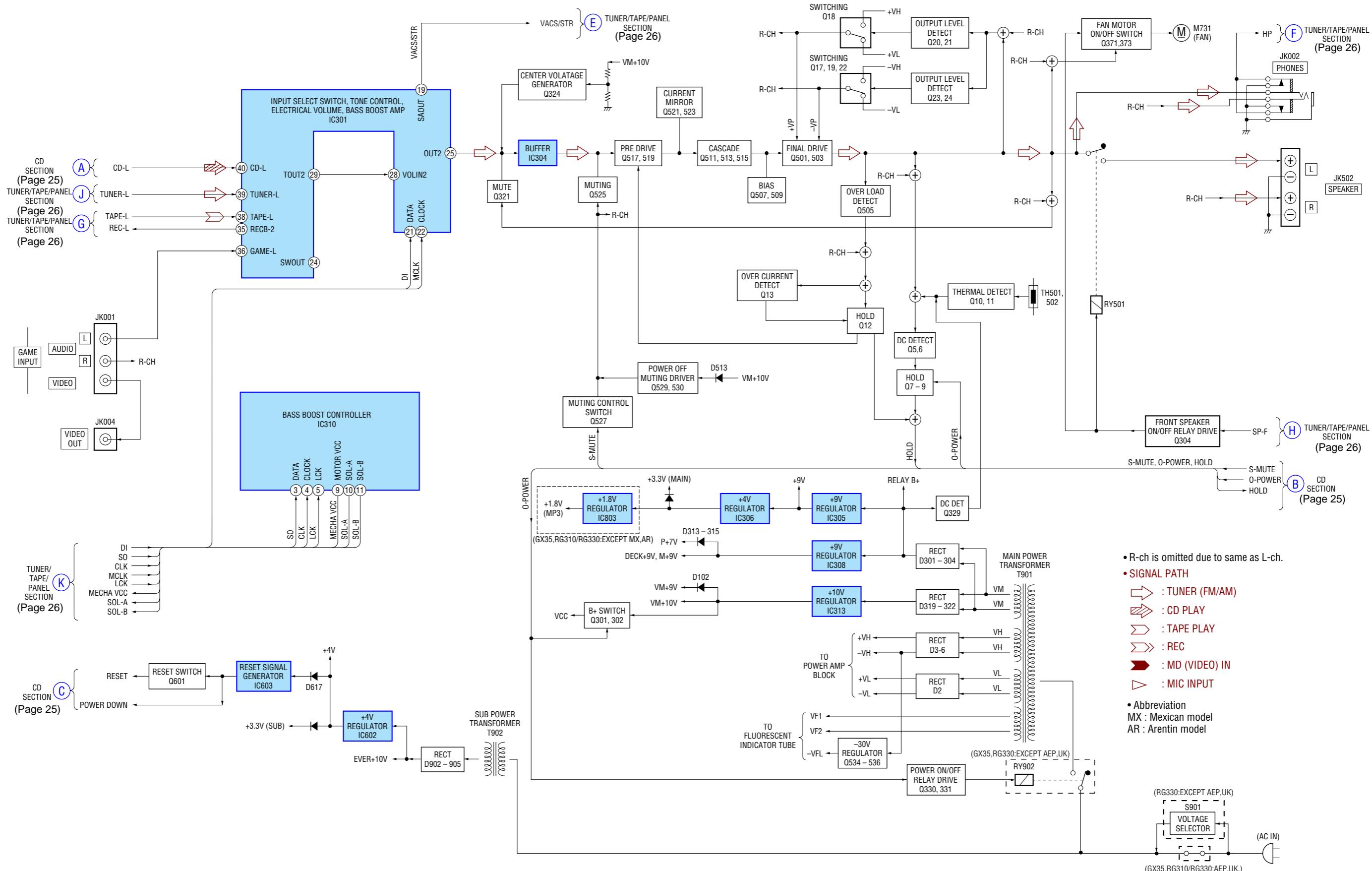
5-2. BLOCK DIAGRAM — CD SECTION —



5-3. BLOCK DIAGRAM — TUNER/TAPE/PANEL SECTION —



5-4. BLOCK DIAGRAM — AMP/POWER SUPPLY SECTION —



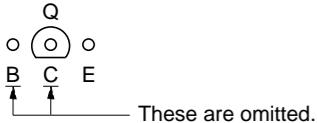
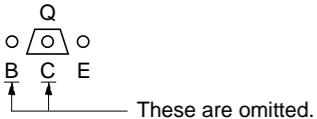
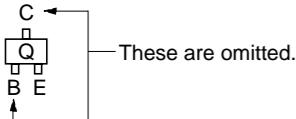
5-5. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

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

- Indication of transistor.

**Note on Schematic Diagram:**

- All capacitors are in μF unless otherwise noted. pF : μF 50 pV 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.
- : nonflammable resistor.
- : panel designation.

Note:

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

Note:

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

- : B+ Line.
- : B- Line.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
() : CD PLAY
[] : TAPE PLAY (DECK-A)
{ } : TAPE PLAY (DECK-B)
<> : REC
* : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 $M\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 : TUNER (FM/AM)
 : CD PLAY
 : TAPE PLAY (DECK-A)
 : TAPE PLAY (DECK-B)
 : REC
 : MD (VIDEO) IN
 : MIC INPUT
- Abbreviation
CND : Canadian model
E2 : 120 V AC area in E model
E51 : Chilean and Peruvian model
MX : Mexican model
AR : Argentina model

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.

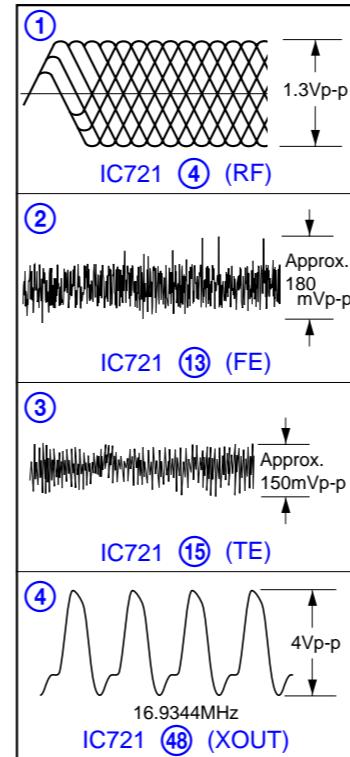
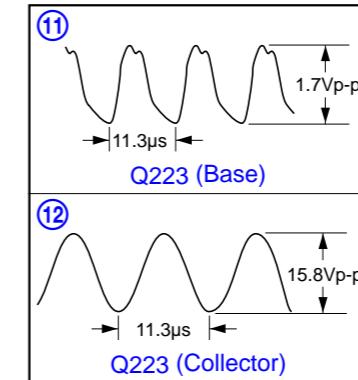
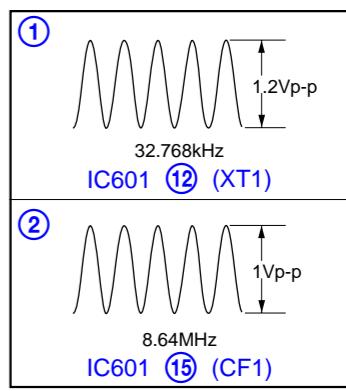
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

LF : LEAD FREE MARK

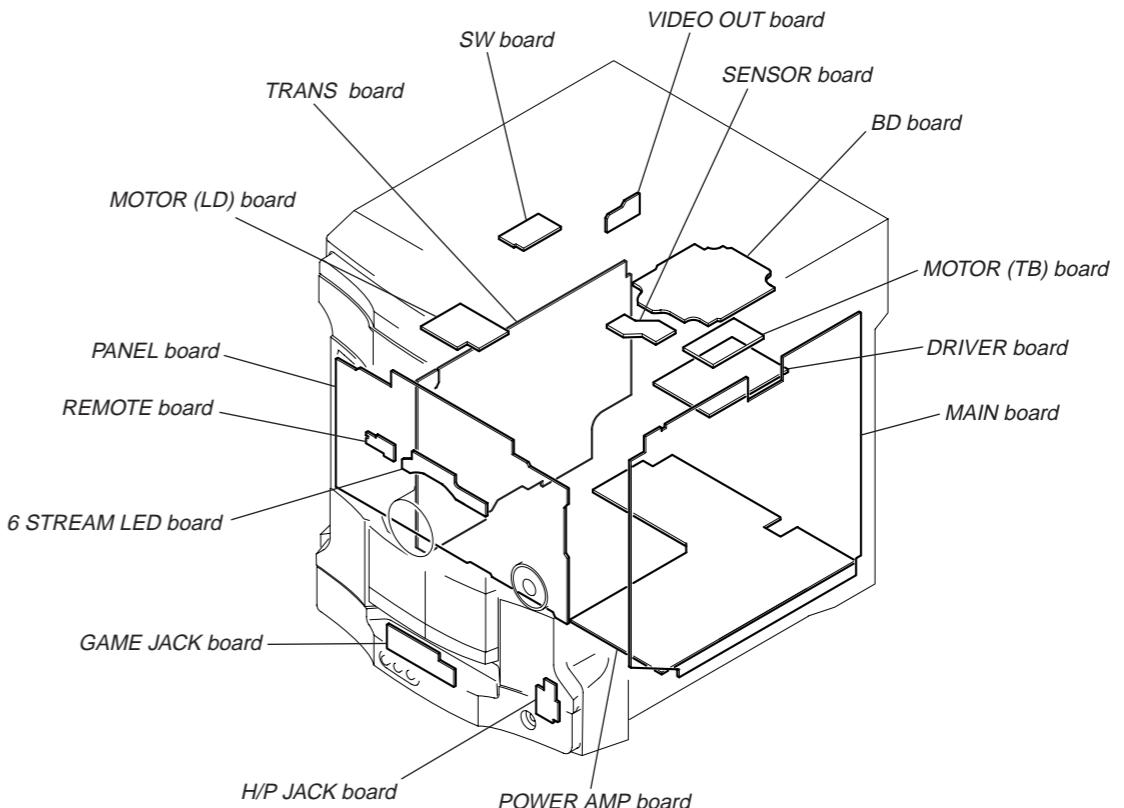
Unleaded solder has the following characteristics.

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

5-6. WAVEFORMS

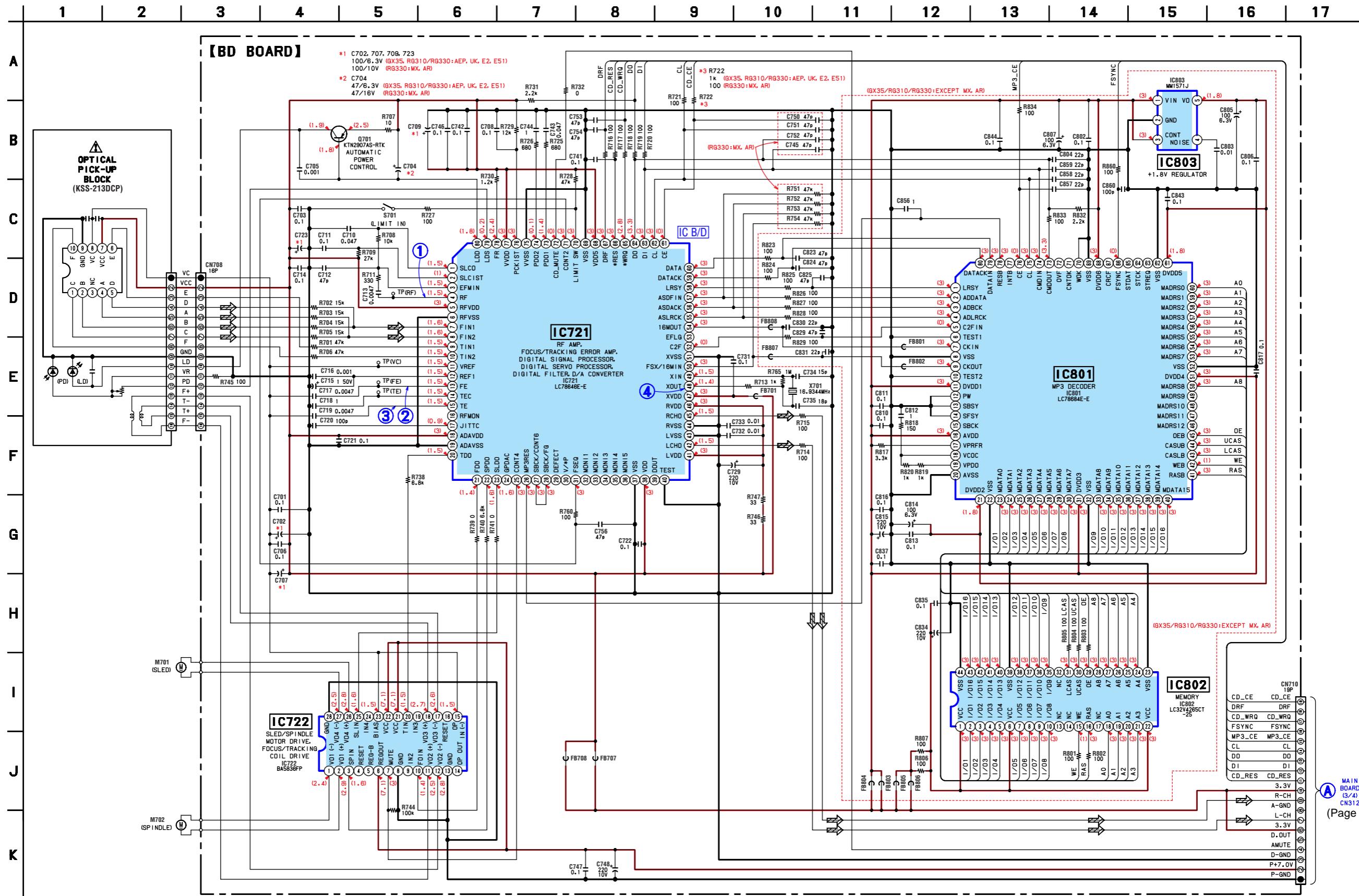
**- BD Board -
(CD PLAY mode)****- MAIN Board -
(REC mode)****- PANEL Board -**

5-7. CIRCUIT BOARDS LOCATION

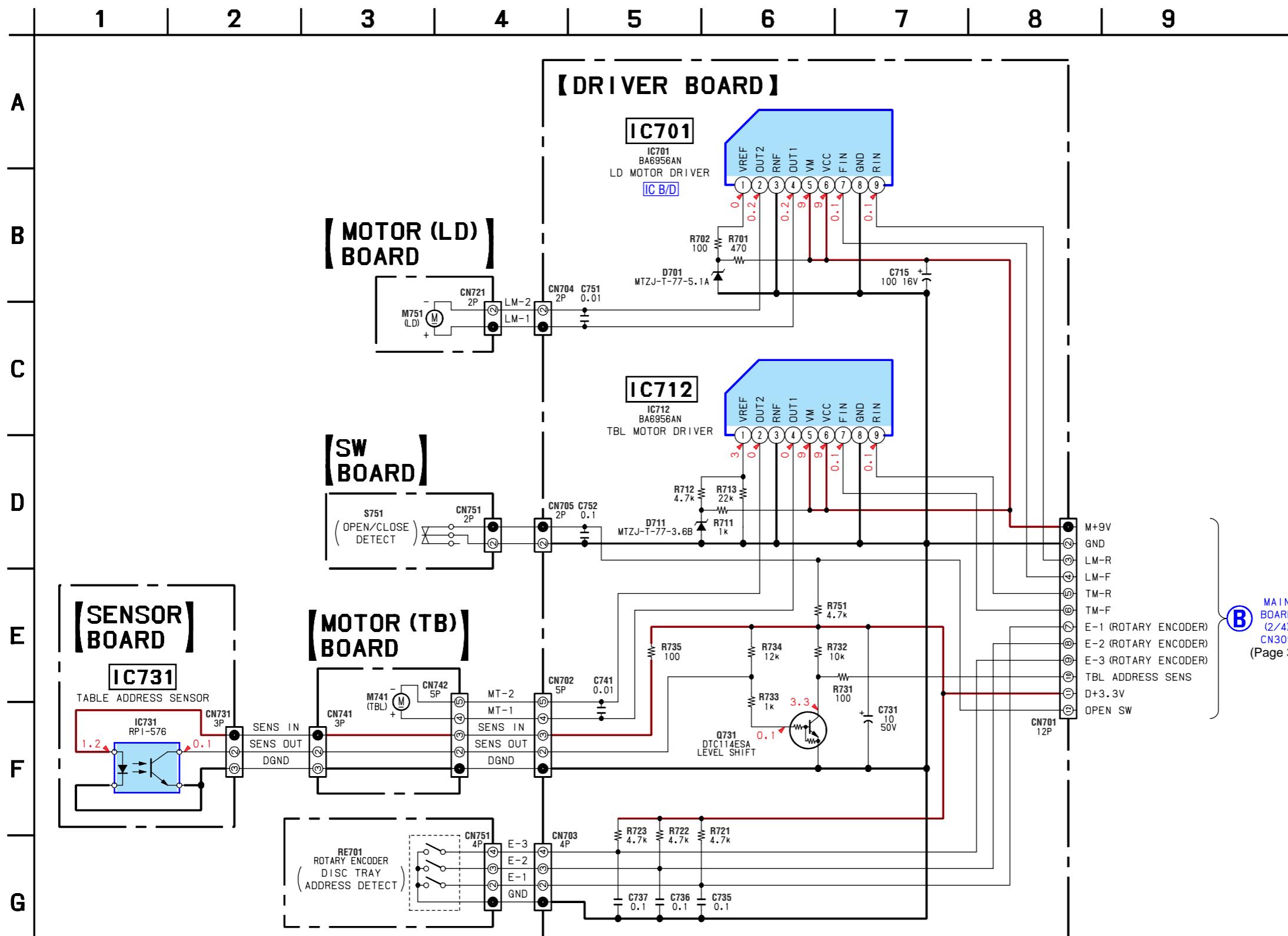


• Refer to page 28 for Waveforms.

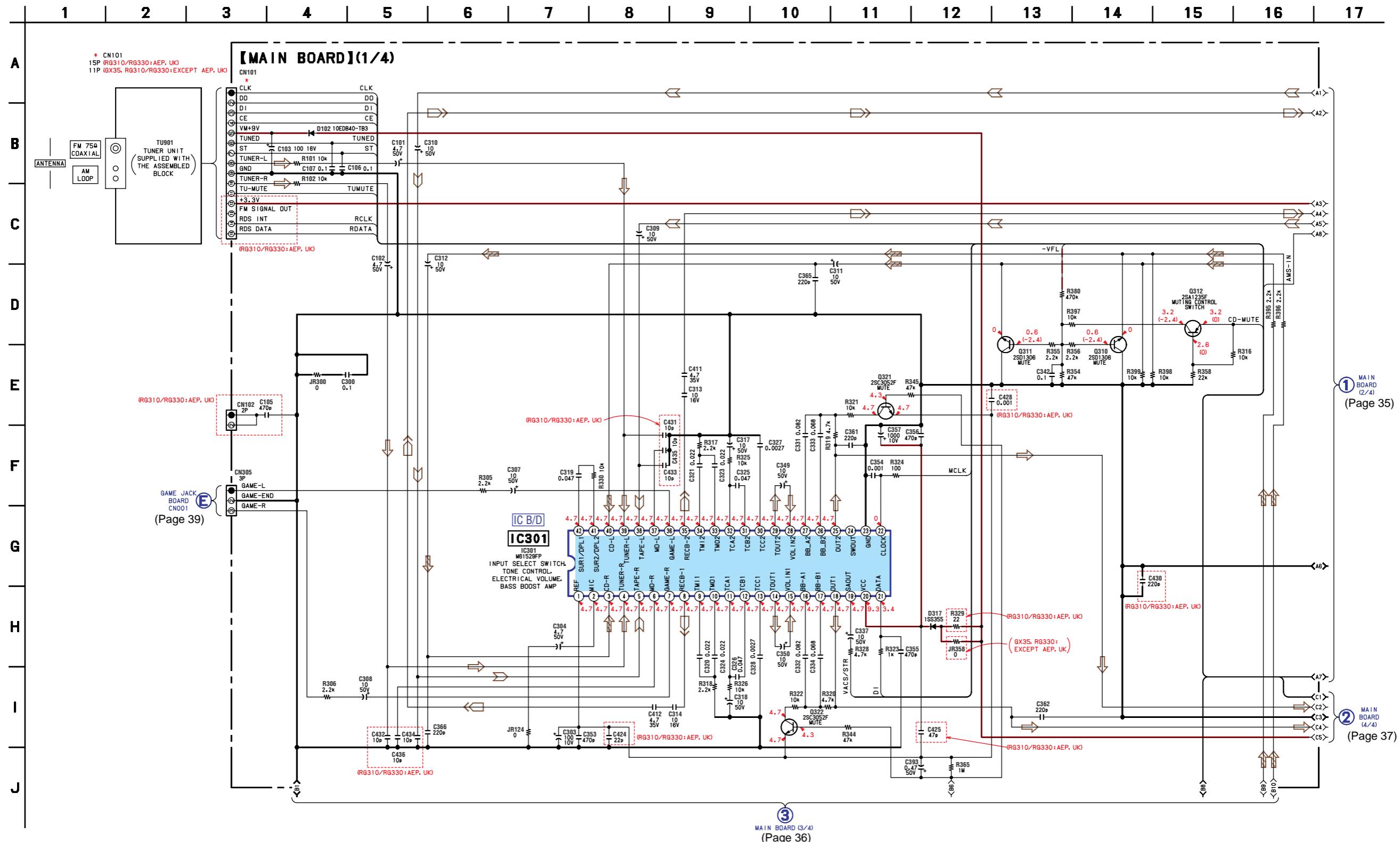
5-10. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (1/2) — • Refer to page 47 for IC Block Diagrams.



5-12. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (2/2) — • Refer to page 48 for IC Block Diagrams.

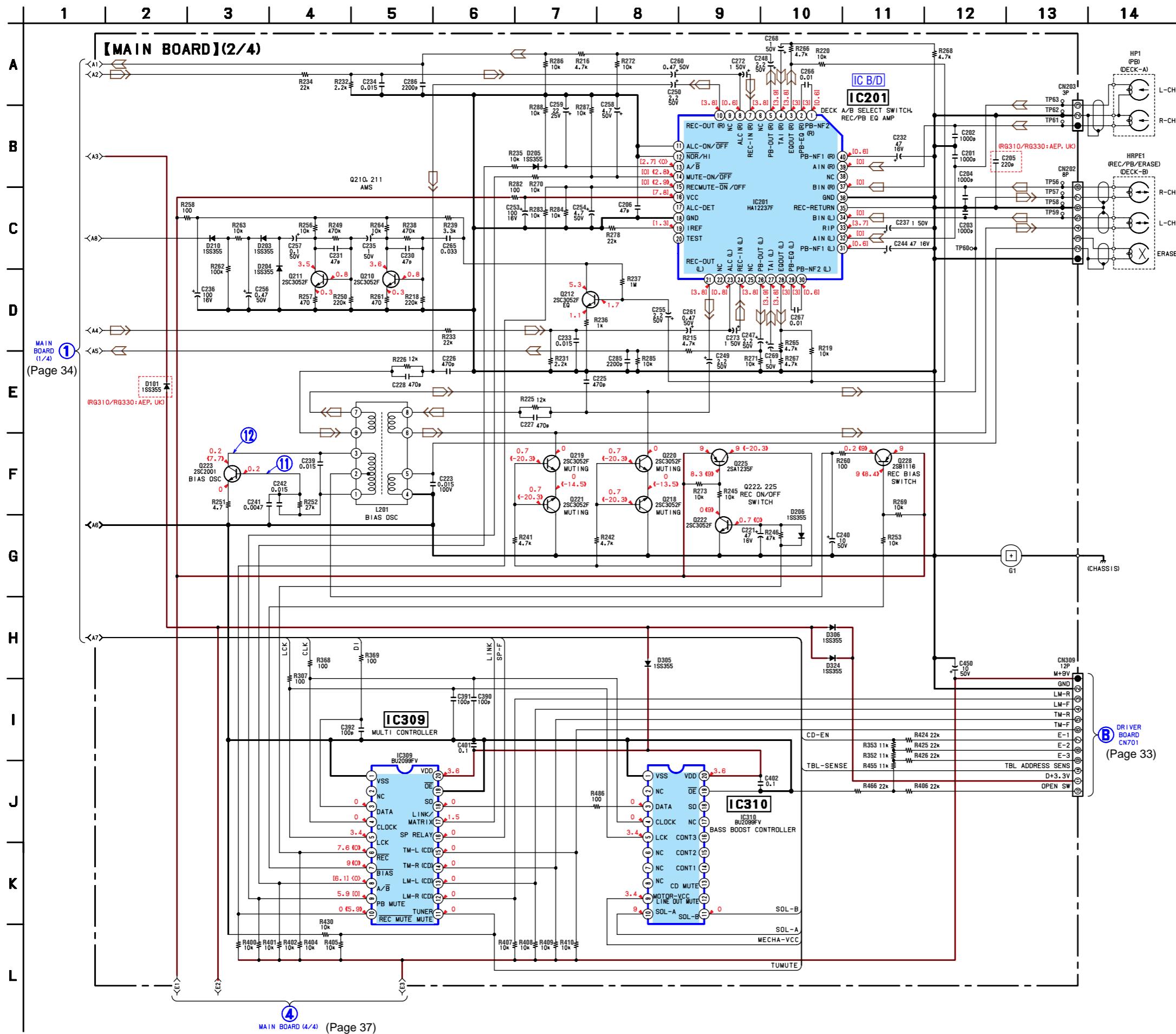


5-13. SCHEMATIC DIAGRAM — MAIN SECTION (1/4) — • Refer to page 48 for IC Block Diagram.

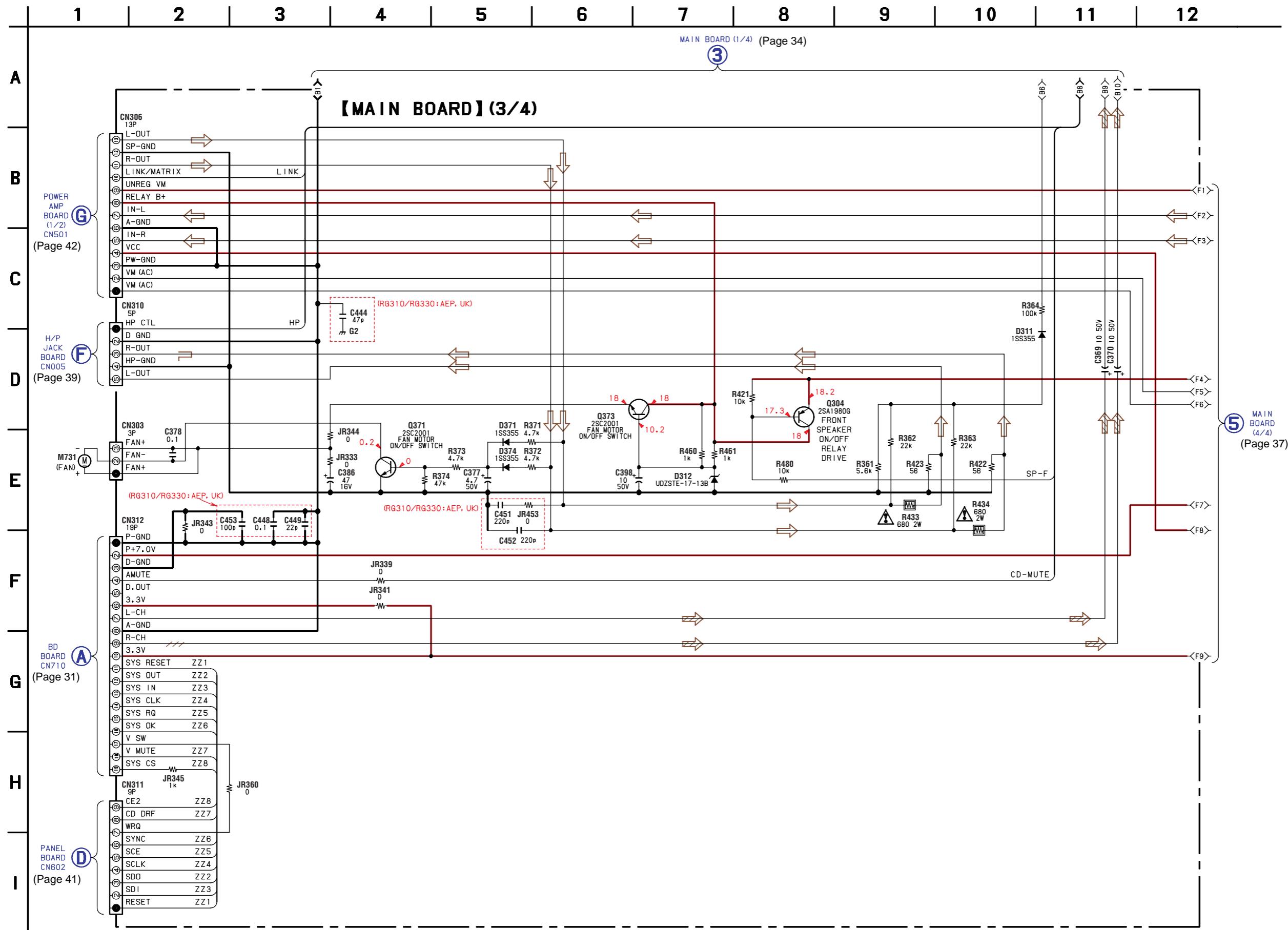


• Refer to page 28 for Waveforms.

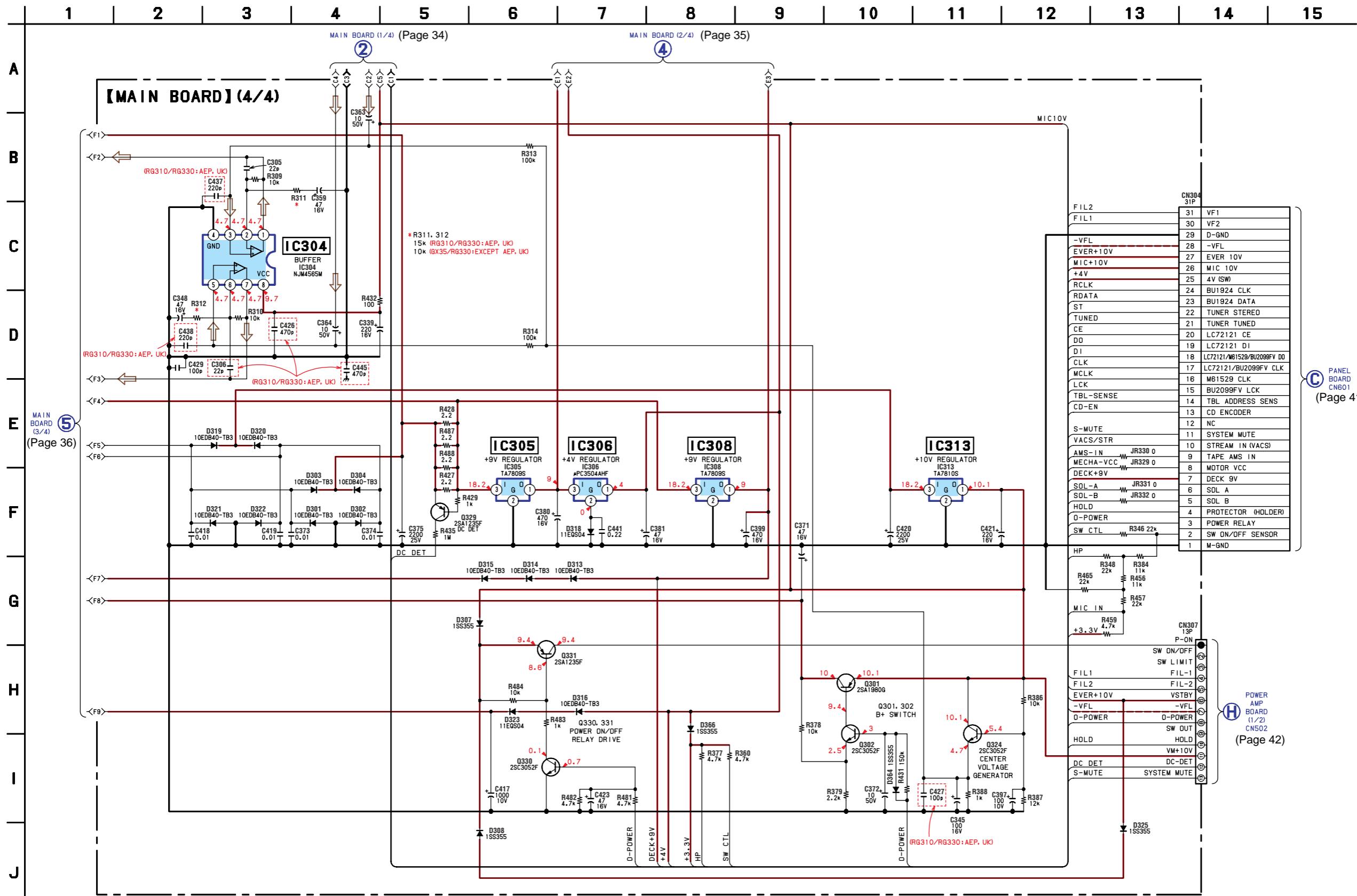
5-14. SCHEMATIC DIAGRAM — MAIN SECTION (2/4) — • Refer to page 49 for IC Block Diagram.



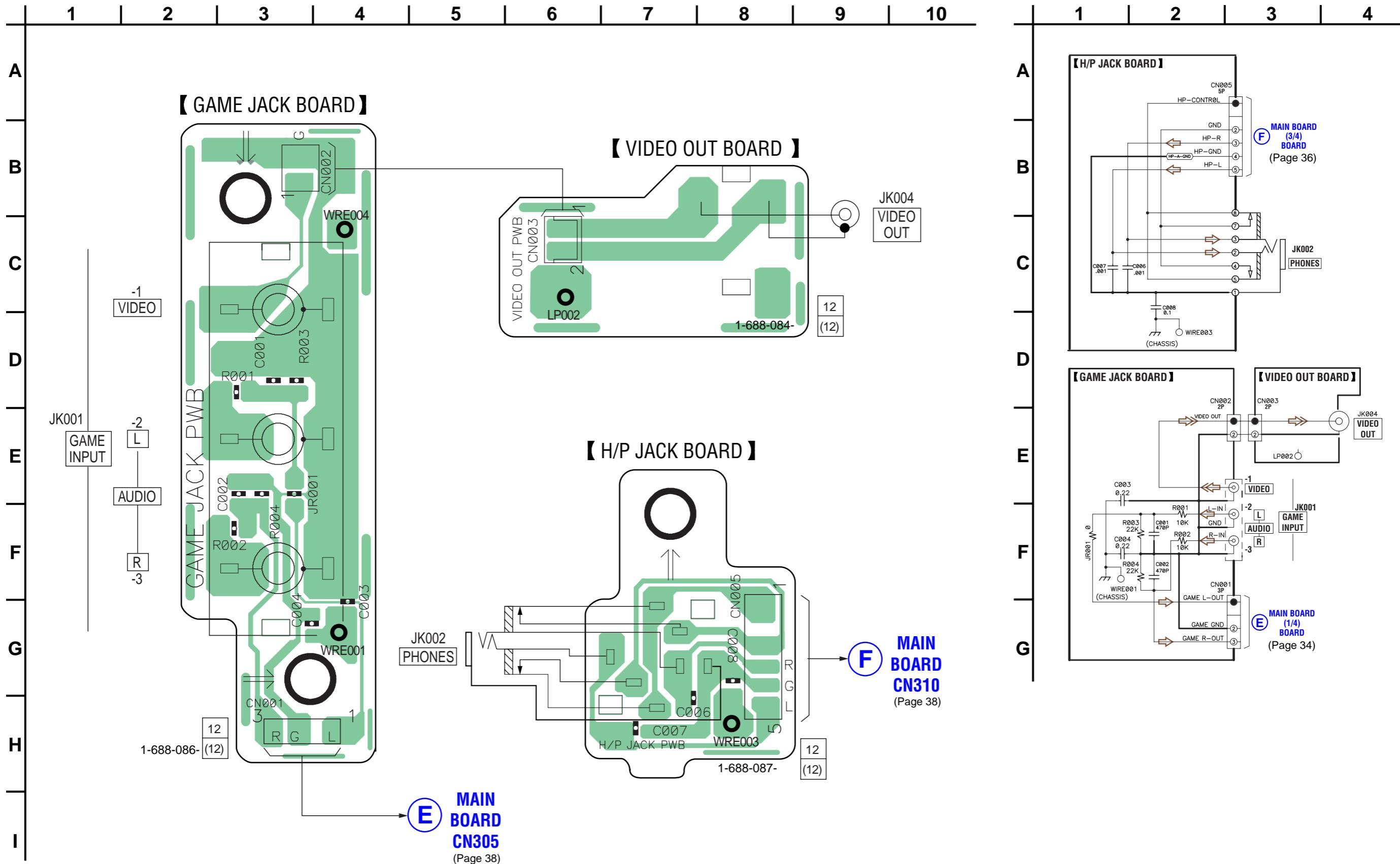
5-15. SCHEMATIC DIAGRAM — MAIN SECTION (3/4) —



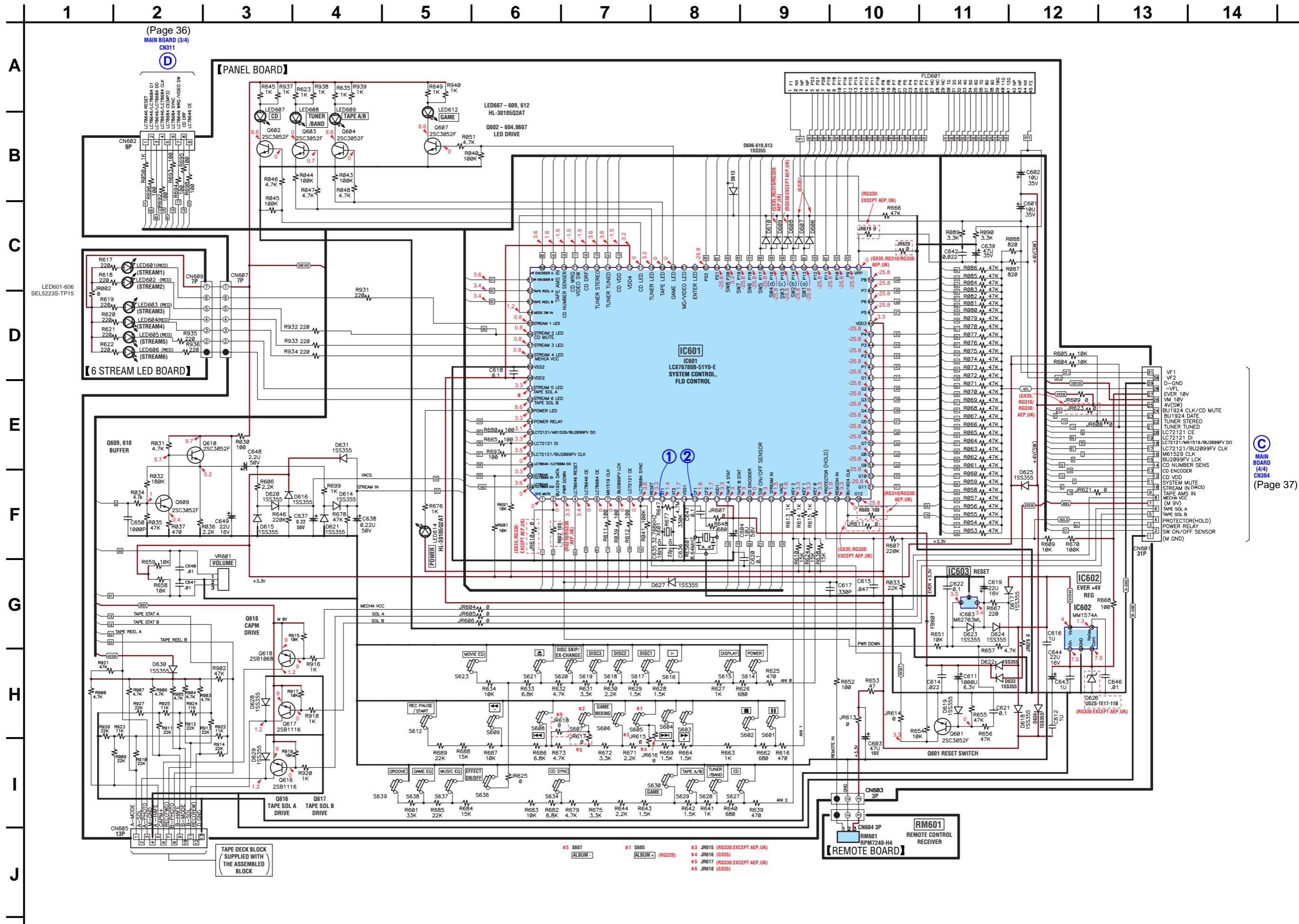
5-16. SCHEMATIC DIAGRAM — MAIN SECTION (4/4) —



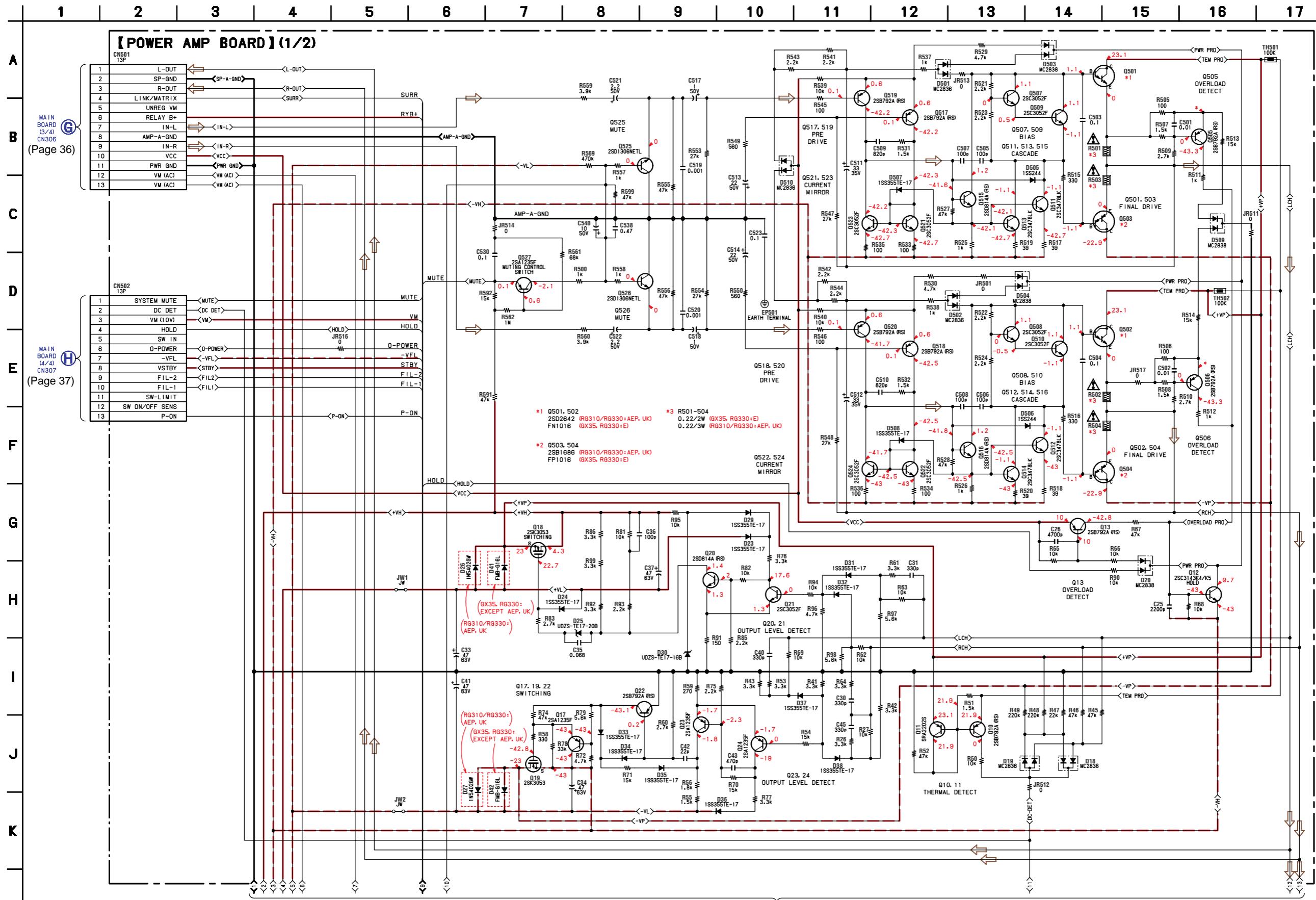
5-18. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAM — JACK SECTION — • Refer to page 28 for Circuit Boards Location.



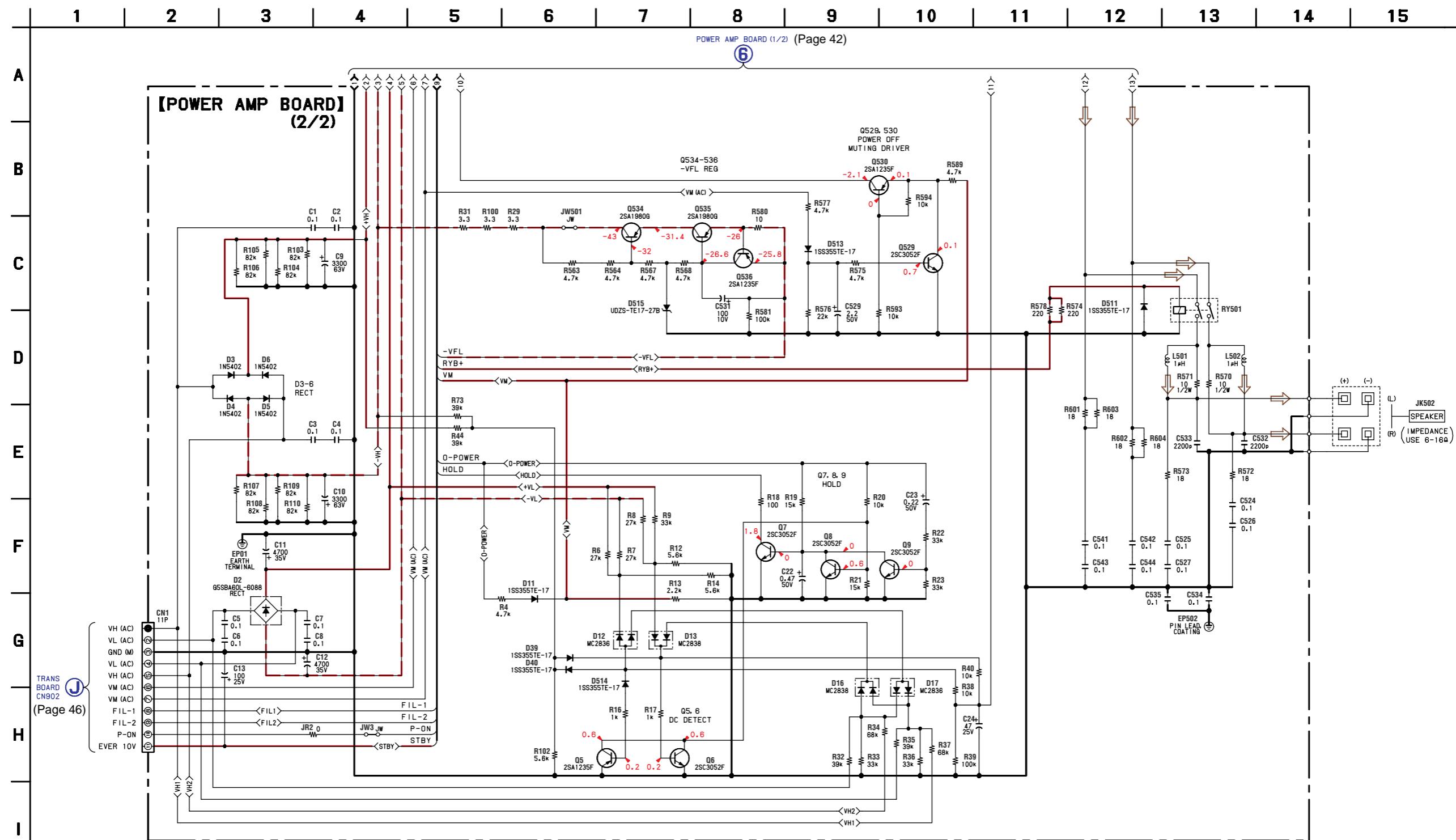
5-20. SCHEMATIC DIAGRAM — PANEL SECTION — • Refer to page 28 for Waveforms.



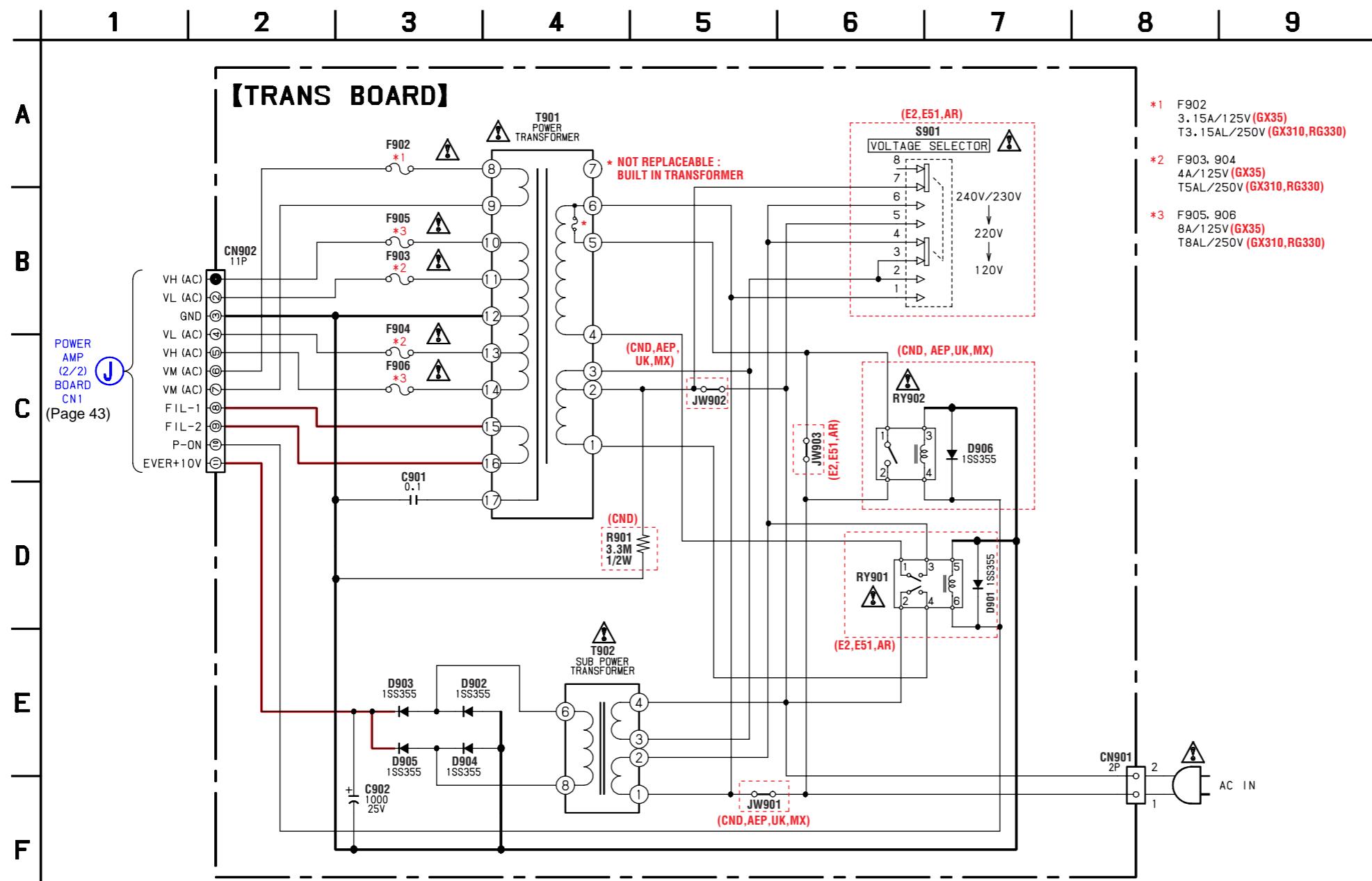
5-21. SCHEMATIC DIAGRAM — POWER AMP SECTION (1/2) —



5-22. SCHEMATIC DIAGRAM — POWER AMP SECTION (2/2) —

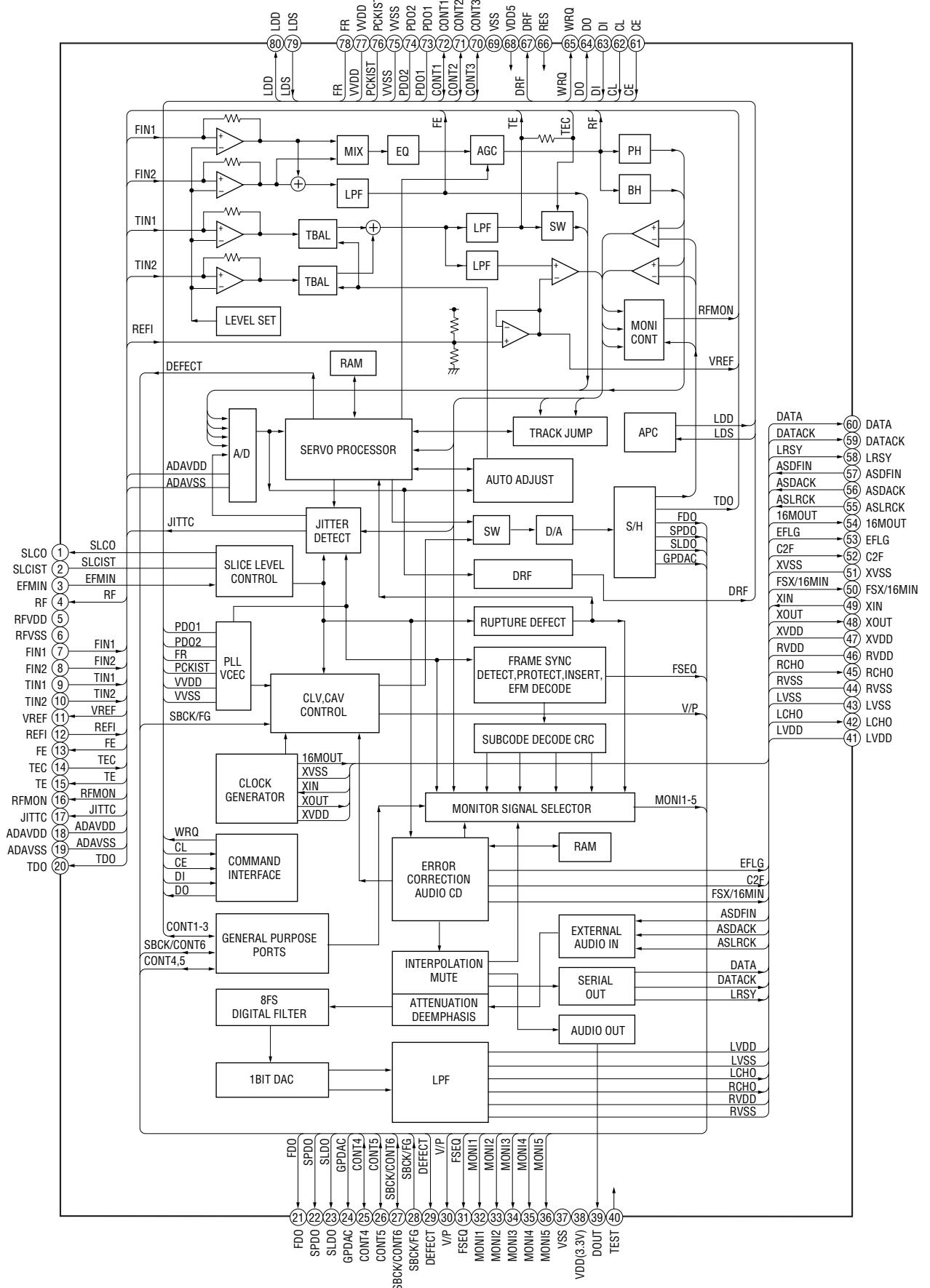


5-25. SCHEMATIC DIAGRAM — TRANSFORMER SECTION —



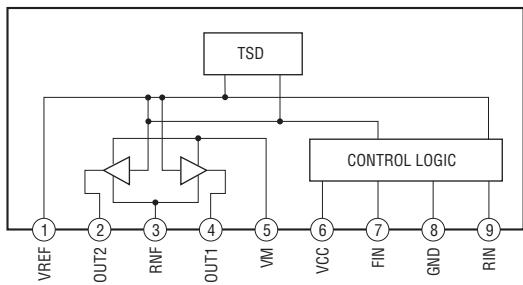
5-26. IC BLOCK DIAGRAMS

IC721 LC78646E-E (BD Board)

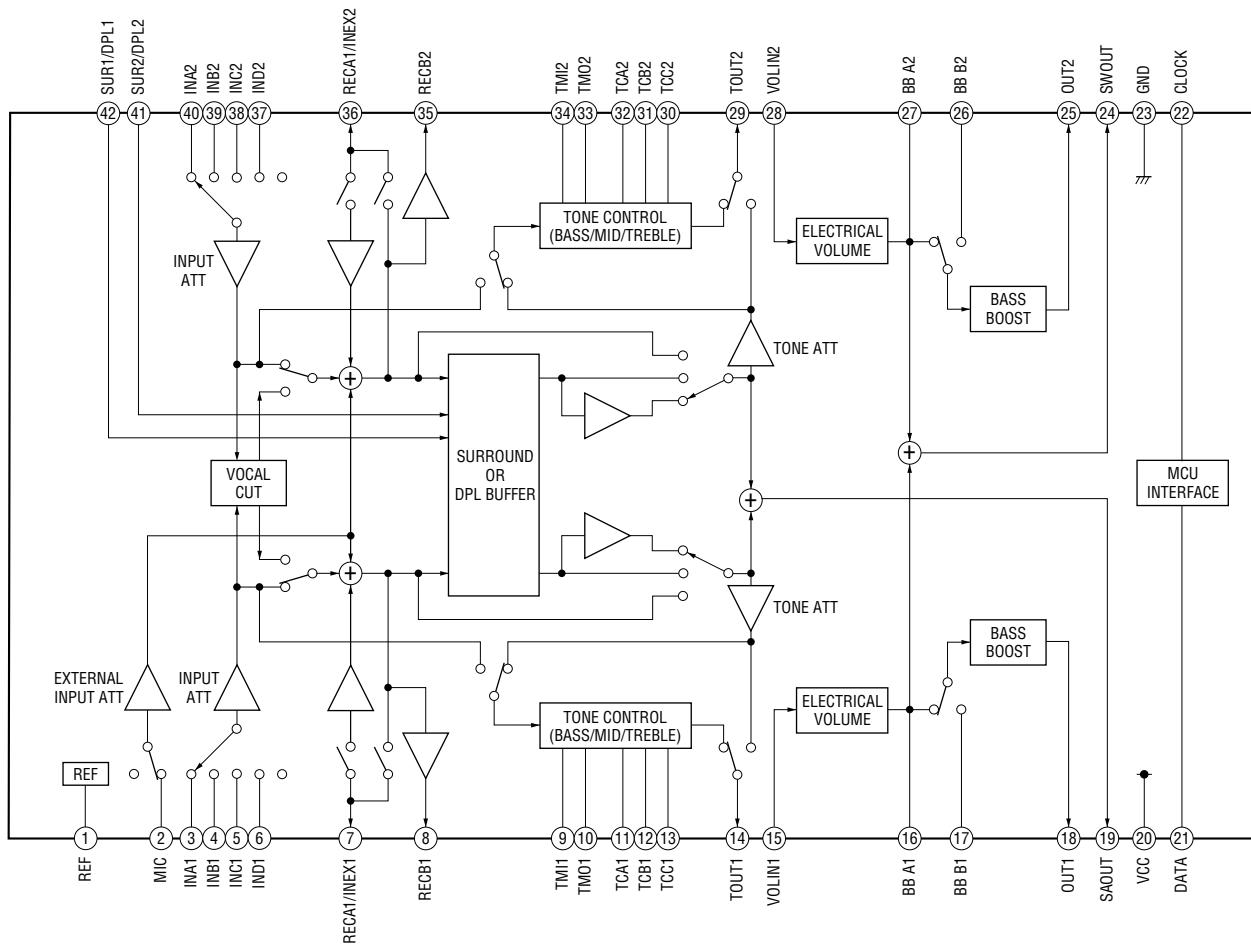


HCD-GX35/RG310/RG330

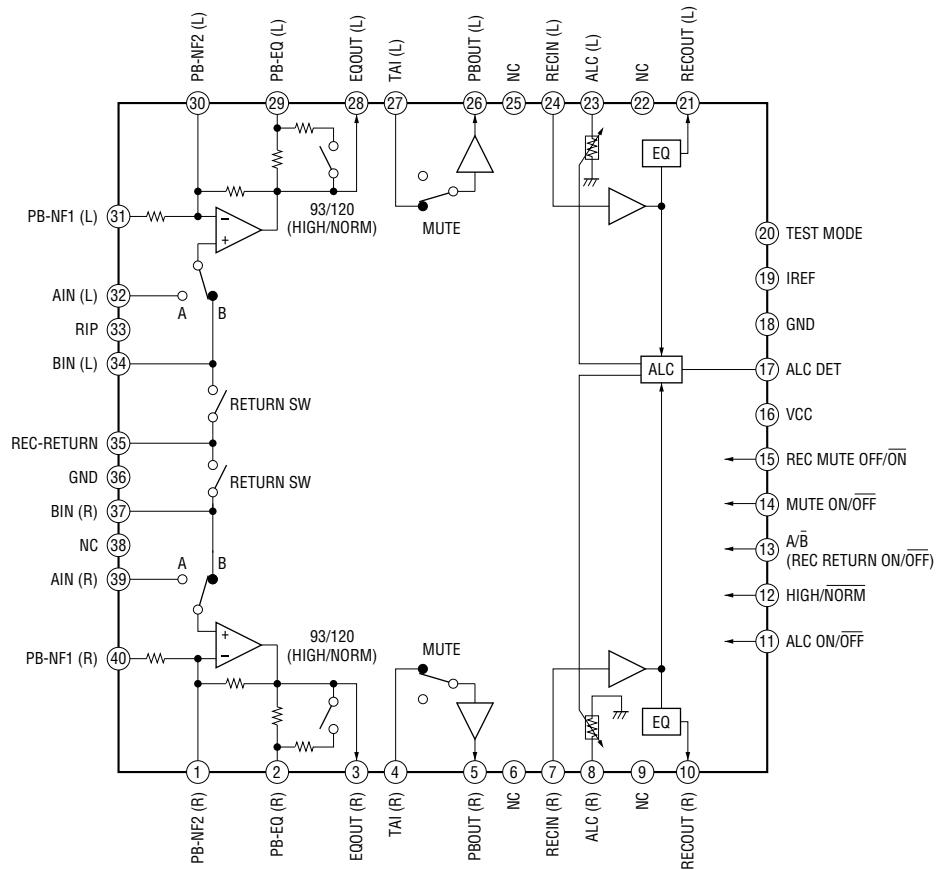
IC701, 712 BA6956AN (DRIVER Board)



IC301 M61529FP (MAIN Board)



IC201 HA12237F (MAIN Board)



SECTION 6 EXPLODED VIEWS

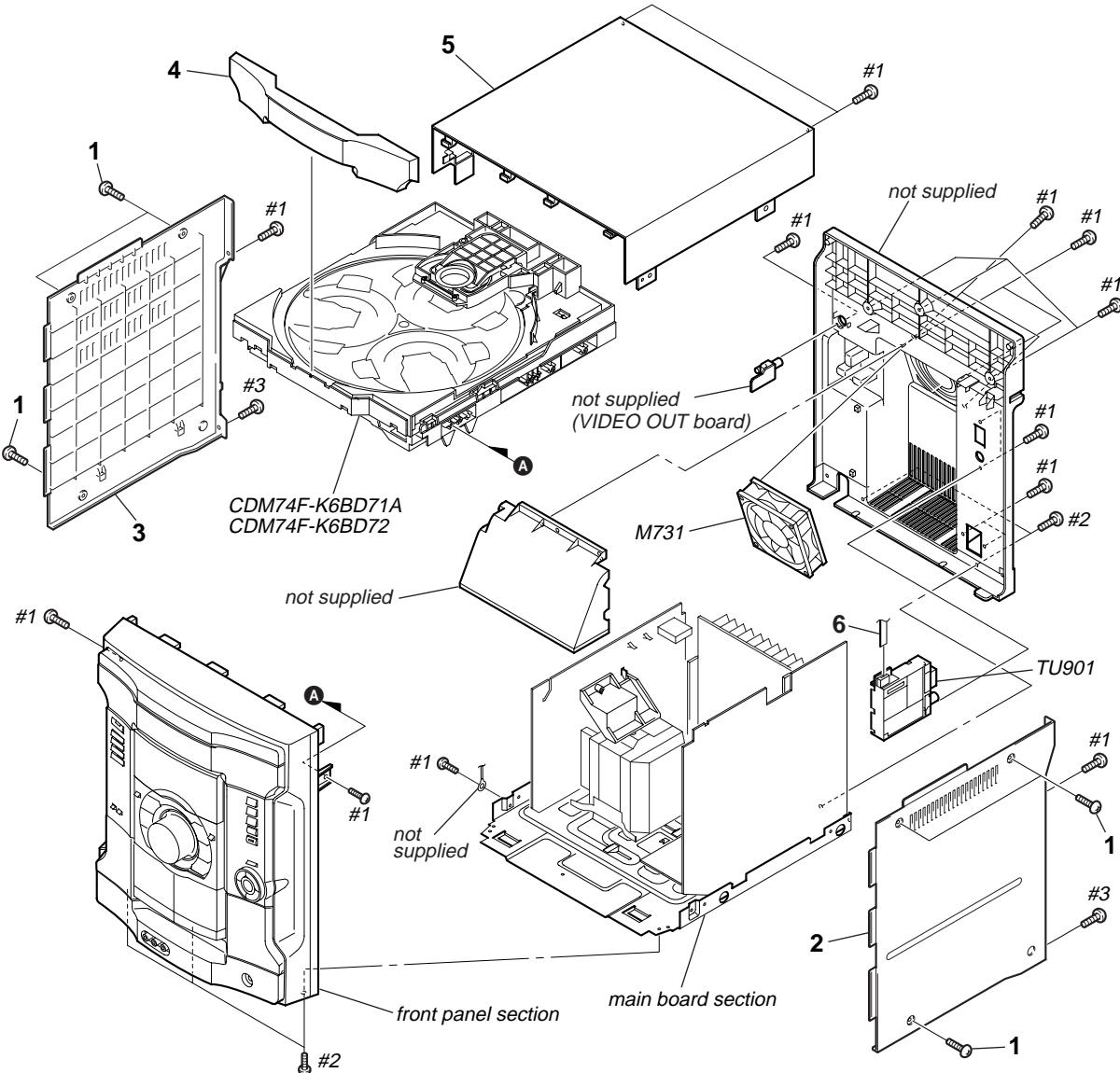
NOTE:

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

- Accessories are given in the last of this parts list.
- Abbreviation
 - CND : Canadian model
 - E2 : 120 V AC area in E model
 - E51 : Chilean and Peruvian model
 - MX : Mexican model
 - AR : Argentina model

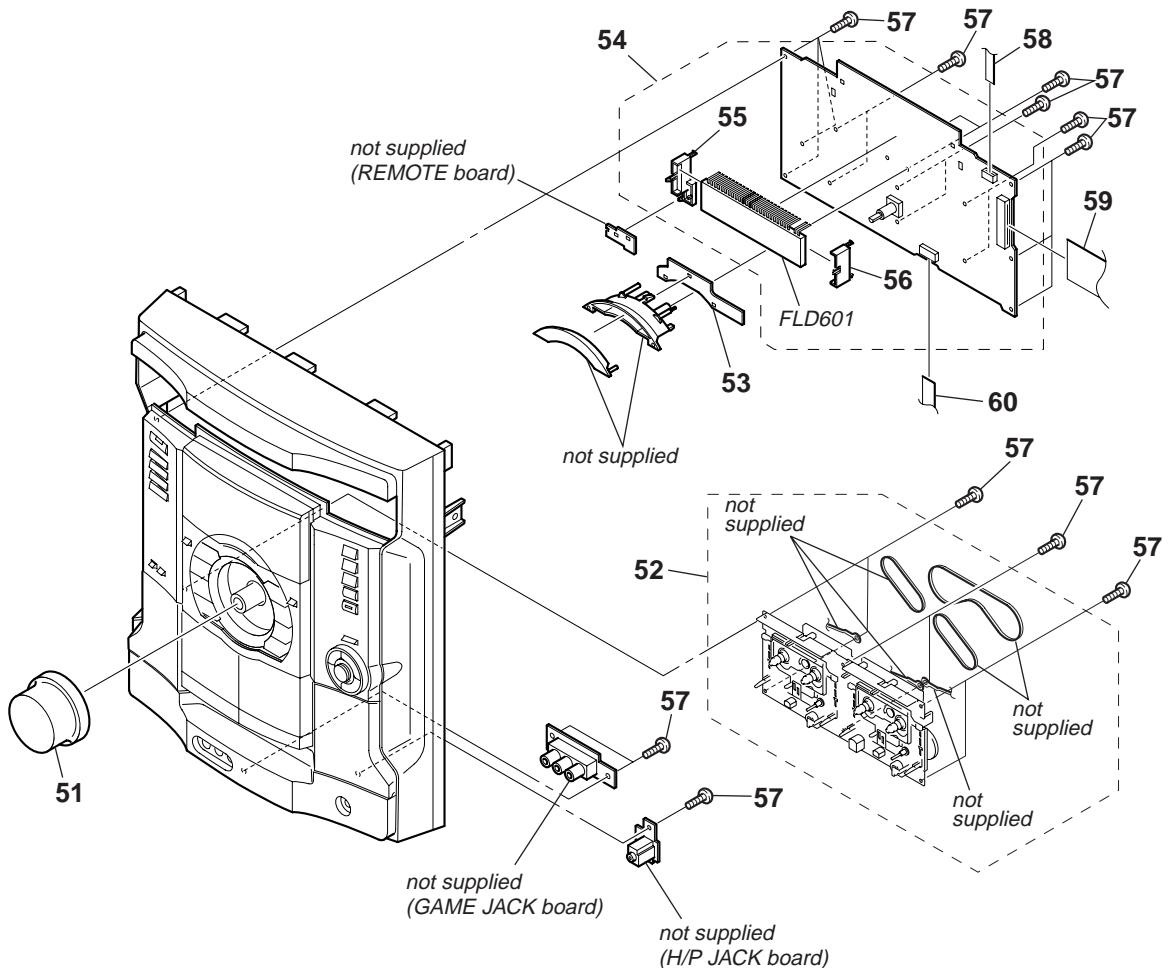
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

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

6-1. MAIN SECTION

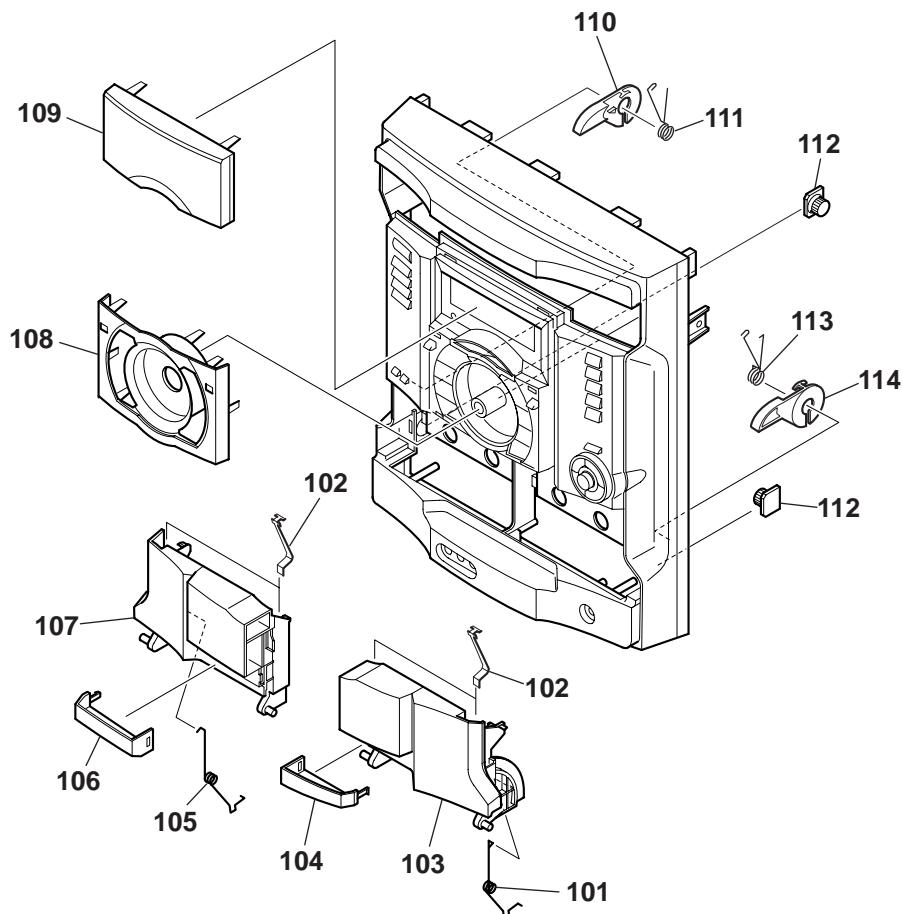
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-363-099-31	SCREW (CASE 3 TP2)		6	1-769-939-11	WIRE (FLAT TYPE) (11 CORE) (EXCEPT AEP,UK)	
2	4-245-184-21	CASE (SIDE-R) (GX35)		6	1-773-003-11	WIRE (FLAT TYPE) (15 CORE) (AEP,UK)	
2	4-245-184-31	CASE (SIDE-R) (RG310/RG330)		M731	1-763-072-11	FAN, DC (RG310/RG330)	
3	4-245-183-21	CASE (SIDE-L) (GX35)		TU901	1-693-625-11	TUNER PACK (FM/AM) (ANTENNA) (CND)	
3	4-245-183-31	CASE (SIDE-L) (RG310/RG330)		TU901	1-693-626-11	TUNER PACK (FM/AM) (ANTENNA) (AEP,UK)	
4	4-244-662-21	CD DOOR (GX35)		TU901	1-693-628-11	TUNER PACK (FM/AM) (ANTENNA) (E2,E51,MX,AR)	
4	4-244-662-31	CD DOOR (RG330)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
4	4-244-662-41	CD DOOR (RG310)		#2	7-685-872-09	SCREW +BVTT 3X8 (S)	
5	4-244-849-01	CASE (TOP) (GX35)		#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
5	4-244-849-11	CASE (TOP) (RG310/RG330)					

6-2. FRONT PANEL SECTION (1)



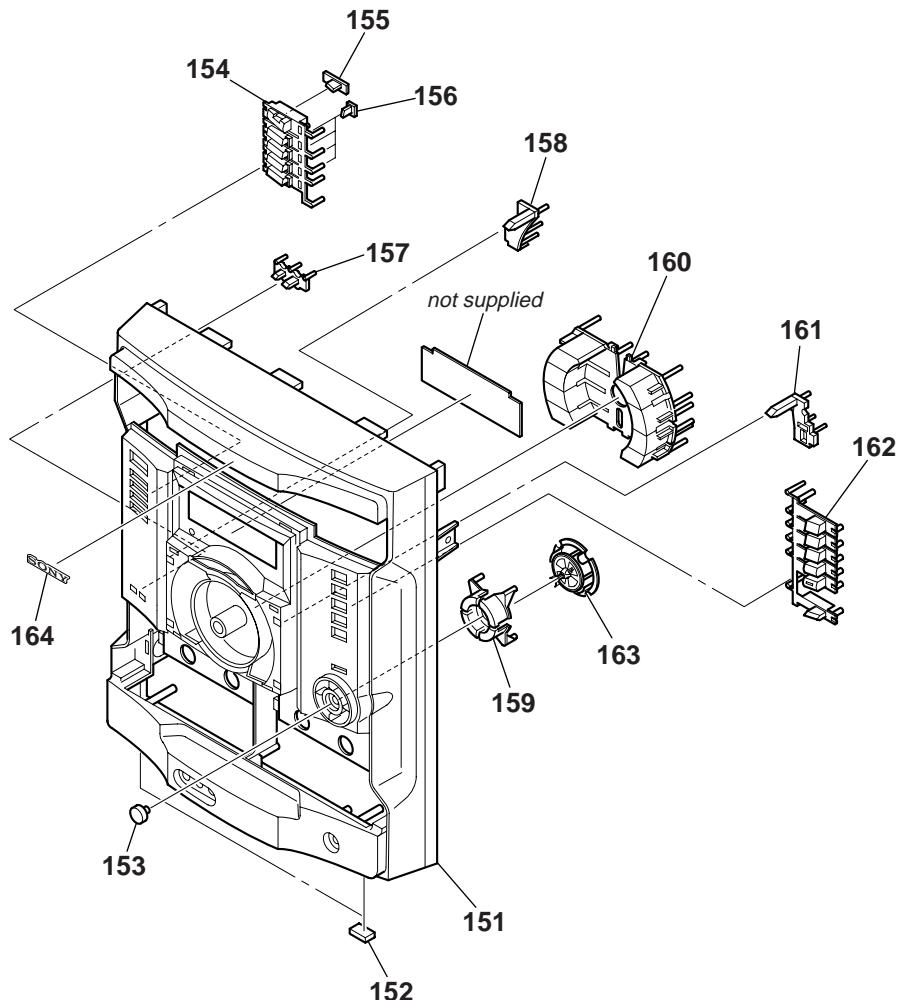
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-244-686-01	VOLUME KNOB		56	4-244-691-01	FL HOLDER (R)	
52	1-796-485-51	DECK, MECHANICAL		57	4-951-620-01	SCREW (2.6X8), +BVTP	
53	1-688-081-21	6 STREAM LED BOARD		58	1-769-914-11	WIRE (FLAT TYPE) (9 CORE)	
54	A-4748-555-A	PANEL BOARD, COMPLETE (AEP,UK)		59	1-773-322-11	WIRE (FLAT TYPE) (31 CORE)	
54	A-4748-606-A	PANEL BOARD, COMPLETE (CND)		60	1-827-145-11	WIRE (FLAT TYPE) (13 CORE)	
54	A-4748-677-A	PANEL BOARD, COMPLETE (E2,E51,MX,AR)		FLD601	1-518-863-11	INDICATOR TUBE, FLUORESCENT	
55	4-244-690-01	FL HOLDER (L)					

6-3. FRONT PANEL SECTION (2)



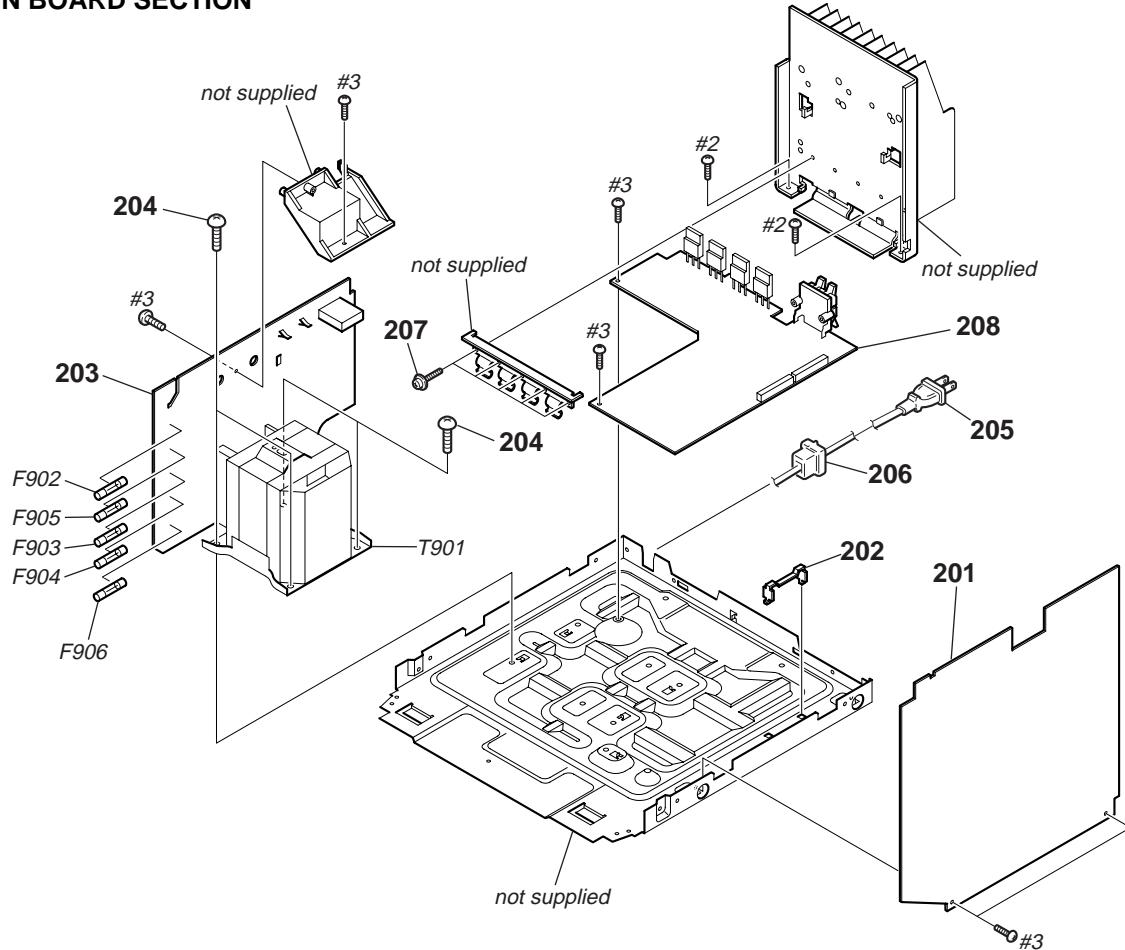
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	4-244-701-01	CASS DOOR SPRING (B)		108	4-244-661-01	SUB PANEL	
102	4-238-631-01	TAPE SPRING		109	4-244-669-01	DISPLAY WINDOW	
103	4-244-666-01	CASS DOOR (R)		110	4-231-824-01	CAM (A), HEART	
104	4-244-668-01	CASS WINDOW (R)		111	4-231-836-01	SPRING (HEART CAM-A)	
105	4-244-700-01	CASS DOOR SPRING (A)		112	4-224-104-41	DAMPER	
106	4-244-667-01	CASS WINDOW (L)		113	4-231-841-01	SPRING (HEART CAM-B)	
107	4-244-663-01	CASS DOOR (L)		114	4-231-825-01	CAM (B), HEART	

6-4. FRONT PANEL SECTION (3)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-244-660-11	FRONT PANEL (AEP,UK)		157	4-244-683-01	RECORD BUTTON (A)	
151	4-244-660-31	FRONT PANEL (CND)		158	4-246-086-01	DISPLAY BUTTON (A)	
151	4-244-660-41	FRONT PANEL (E2,E51,MX,AR)		159	4-244-684-01	EQ BUTTON	
152	4-225-252-01	CUSHION (FOOT)		160	4-244-906-01	CONTROL BUTTON (B)	
153	4-244-680-01	GAME MIXING BUTTON		161	4-246-087-01	PAUSE BUTTON (A)	
154	4-244-676-01	FUNCTION BUTTON		162	4-244-679-01	DISC BUTTON	
155	4-244-677-01	POWER LENS		163	4-244-687-01	GAME MIXING HOLDER	
156	4-244-678-01	FUNCTION LENS		164	3-038-018-01	EMBLEM, SONY	

6-5. MAIN BOARD SECTION

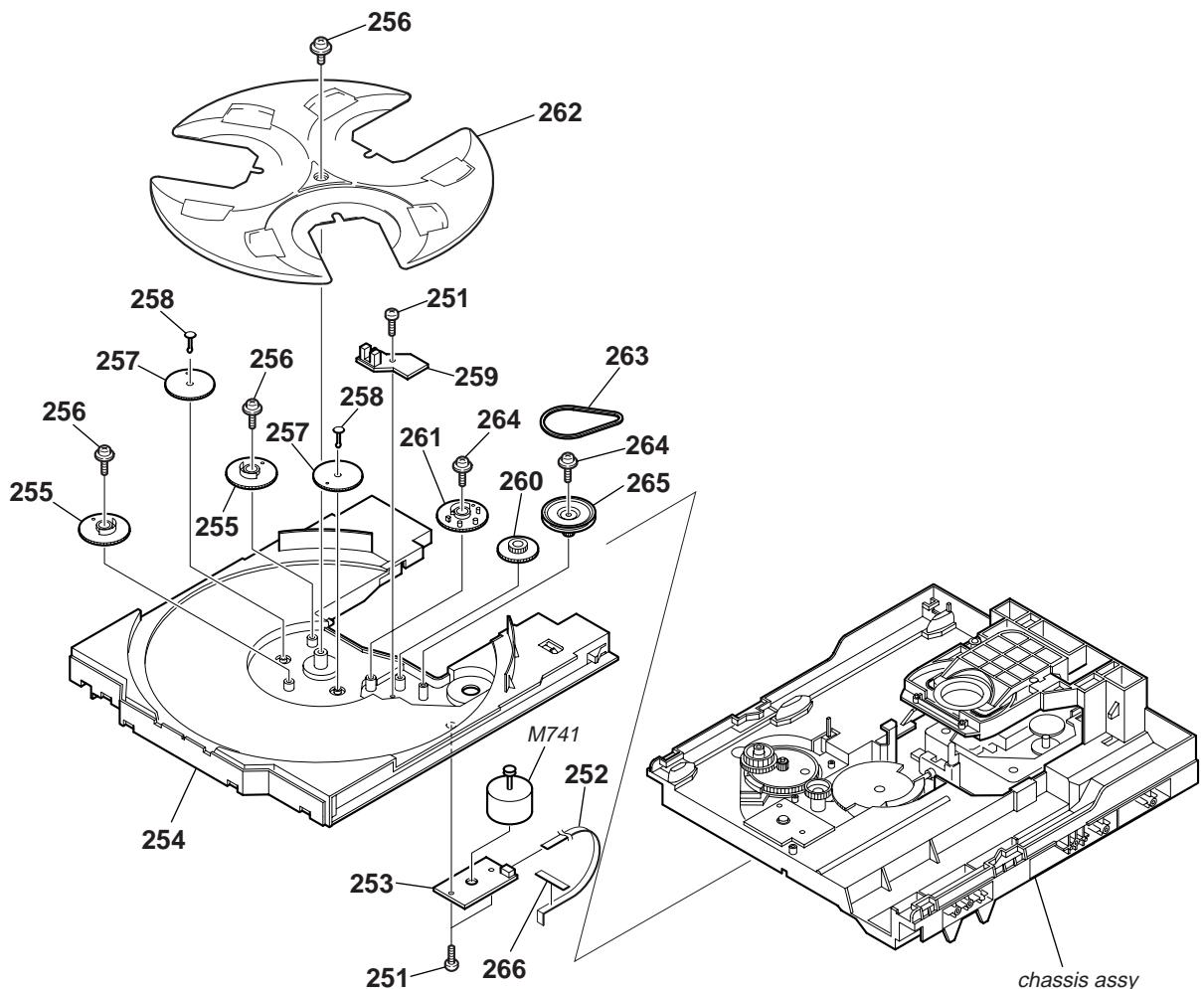


The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	A-4732-773-A	MAIN BOARD, COMPLETE (CND)		\triangle F903	1-533-452-12	FUSE, GLASS TUBE (DIA.5) (4A/125V) (GX35)	
201	A-4748-386-A	MAIN BOARD, COMPLETE (AEP,UK)		\triangle F903	1-533-472-12	FUSE, GLASS TUBE (DIA.5) (T5AL/250V) (RG310/RG330)	
201	A-4748-473-A	MAIN BOARD, COMPLETE (E2,E51,MX,AR)		\triangle F904	1-533-452-12	FUSE, GLASS TUBE (DIA.5) (4A/125V) (GX35)	
202	4-988-533-01	HOLDER, PWB		\triangle F904	1-533-472-12	FUSE, GLASS TUBE (DIA.5) (T5AL/250V) (RG310/RG330)	
203	1-688-088-11	TRANS BOARD (GX35)		\triangle F905	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (8A/125V) (GX35)	
203	1-688-695-11	TRANS BOARD (RG310/RG330)		\triangle F905	1-576-655-12	FUSE, GLASS TUBE (DIA.5) (T8AL/250V) (RG310/RG330)	
204	4-242-527-01	S-SCREW, ITC-4-8 R		\triangle F906	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (8A/125V) (GX35)	
\triangle 205	1-777-071-83	CORD, POWER (AEP,UK)		\triangle F906	1-576-655-12	FUSE, GLASS TUBE (DIA.5) (T8AL/250V) (RG310/RG330)	
\triangle 205	1-783-532-11	CORD, POWER (CND)		\triangle T901	1-439-805-11	TRANSFORMER, POWER (GX35)	
\triangle 205	1-783-941-22	CORD, POWER (AR)		\triangle T901	1-439-808-11	TRANSFORMER, POWER (RG330:AEP,UK)	
\triangle 205	1-791-901-12	CORD, POWER (E2,E51)		\triangle T901	1-439-809-11	TRANSFORMER, POWER (E2,E51,AR)	
\triangle 205	1-827-226-11	CORD, POWER (MX)		\triangle T901	1-439-858-11	TRANSFORMER, POWER (MX)	
206	3-703-571-11	BUSHING (S) (4516), CORD (E2,MX)		\triangle T901	1-439-915-11	TRANSFORMER, POWER (RG310)	
* 206	3-703-244-00	BUSHING (2104), CORD (CND,AEP,UK,E51,AR)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
207	3-905-609-01	SCREW (TRANSISTOR)		#2	7-685-872-09	SCREW +BVTT 3X8 (S)	
208	A-4732-781-A	POWER AMP BOARD, COMPLETE (GX35)		#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
208	A-4748-552-A	POWER AMP BOARD, COMPLETE (RG310)					
208	A-4748-609-A	POWER AMP BOARD, COMPLETE (RG330:AEP,UK)					
208	A-4748-674-A	POWER AMP BOARD, COMPLETE (E2,E51,MX,AR)					
\triangle F902	1-533-451-12	FUSE, GLASS TUBE (DIA.5) (3.15A/125V) (GX35)					
\triangle F902	1-533-470-12	FUSE, GLASS TUBE (DIA.5) (T3.15AL/250V) (RG310/RG330)					

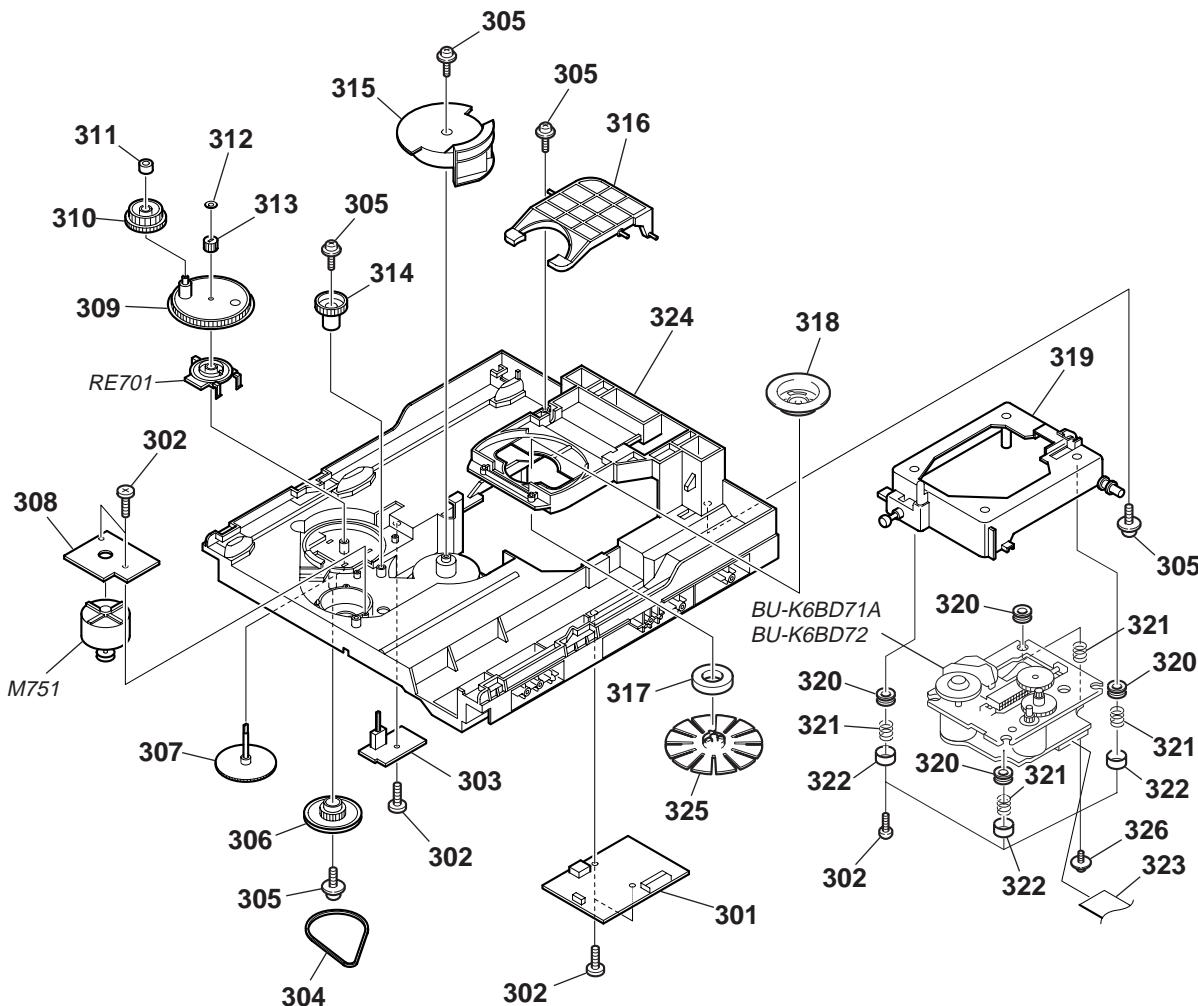
6-6. CD MECHANISM DECK SECTION (1)
(CDM74F-K6BD71A) (GX35/RG310/RG330: AEP, UK, E2, E51 MODEL)
(CDM74F-K6BD72) (RG330: MX, AR MODEL)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	4-218-253-21	SCREW (M2.6), +BTPP		260	4-243-820-01	GEAR (TABLE)	
252	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)		261	4-243-819-01	GEAR (GENEVA)	
253	1-687-134-11	MOTOR (TB) BOARD		262	4-243-816-01	TRAY	
254	4-243-815-01	TABLE (LOADING)		263	4-243-823-01	BELT (TABLE)	
255	4-245-571-02	GEAR (STOPPER)		264	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
256	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		265	4-243-821-01	PULLEY (TABLE)	
257	4-245-570-01	GEAR (JOINT)		266	3-231-598-01	SHEET (BA)	
258	4-245-572-01	BUSHING (GEAR)		M741	A-4723-963-A	MOTOR ASSY, TABLE (TURN)	
259	1-687-132-11	SENSOR BOARD					

6-7. CD MECHANISM DECK SECTION (2)

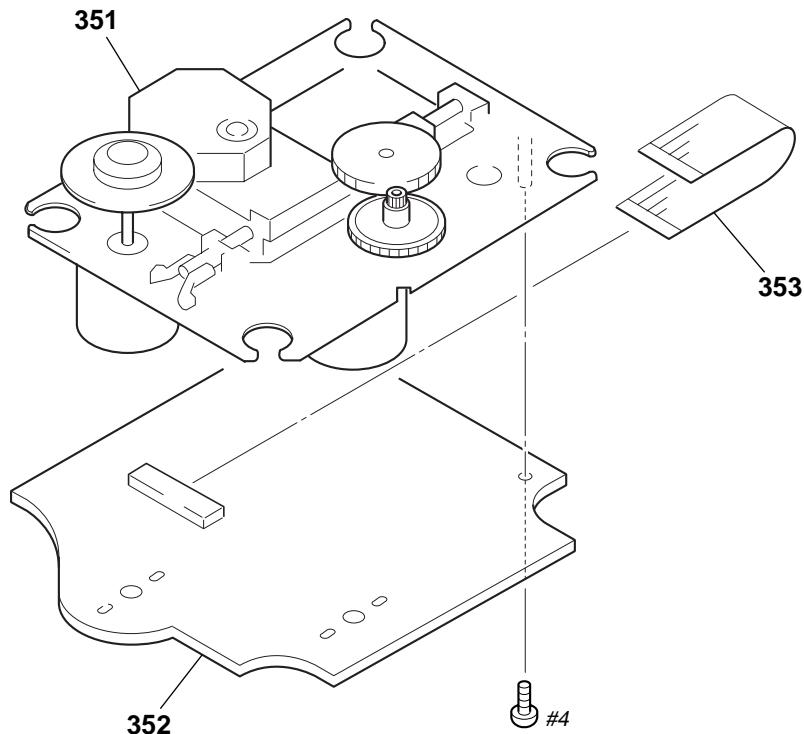
(CDM74F-K6BD71A) (GX35/RG310/RG330: AEP, UK, E2, E51 MODEL)
(CDM74F-K6BD72) (RG330: MX, AR MODEL)



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
301	1-687-135-11	DRIVER BOARD		316	4-243-822-01	LEVER (LIFTER)	
302	4-218-253-31	SCREW (M2.6), +BTTP		317	1-471-035-11	MAGNET ASSY	
303	1-687-669-11	SW BOARD		318	4-231-189-01	PULLEY (B), CHUCKING	
304	4-244-034-01	BELT (LOADING)		319	X-4955-536-1	HOLDER (213) ASSY	
305	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		320	4-227-549-11	INSULATOR	
306	4-225-844-01	GEAR (LOADING A)		321	4-227-045-31	SPRING (INSULATOR), COIL	
307	4-224-613-01	GEAR (SHAFT)		322	4-231-151-01	STOPPER (BU)	
308	1-687-133-11	MOTOR (LD) BOARD		323	1-827-146-11	WIRE (FLAT TYPE) (19 CORE)	
309	4-244-108-01	GEAR, SWING		324	4-243-817-01	CHASSIS	
310	4-224-609-01	GEAR (LOADING C)		325	X-4955-707-1	PULLEY (A5) ASSY, CHUCKING	
311	4-224-608-01	COLLAR, SWING		326	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
312	3-016-533-11	WASHER (FR), STOPPER		M751	A-4736-655-A	MOTOR ASSY, LOADING (LOADING)	
313	4-224-611-01	GEAR (LOADING B)		RE701	1-477-680-11	ENCODER, ROTARY (DISC TRAY ADDRESS DETECT)	
314	4-224-606-01	GEAR (RV)					
315	4-243-818-01	GEAR (U/D)					

6-8. BASE UNIT SECTION

(BU-K6BD71A) (GX35/RG310/RG330: AEP, UK, E2, E51 MODEL)
 (BU-K6BD72) (RG330: MX, AR MODEL)



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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
\triangle 351	A-4735-357-A	BASE ASSY, OP (KSM-213DCP)		353	1-823-859-11	WIRE (FLAT TYPE) (16 CORE)	
352	A-4732-699-A	BD BOARD, COMPLETE (EXCEPT MX,AR)		#4	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
352	A-4734-406-A	BD BOARD, COMPLETE (MX,AR)					

SECTION 7

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

- -XX and -X mean standardized parts, so they may have some difference from the original one.

• 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

CND : Canadian model

E2 : 120 V AC area in E model

E51 : Chilean and Peruvian model

MX : Mexican model

AR : Argentina model

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

Les composants identifiés par une marque Δ sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-4732-699-A	BD BOARD, COMPLETE (EXCEPT MX,AR)		C729	1-126-934-11	ELECT	220uF 20% 10V (MX,AR)
	A-4734-406-A	BD BOARD, COMPLETE (MX,AR)	*****	C729	1-128-360-11	ELECT CHIP	220uF 20% 10V (EXCEPT MX,AR)
< CAPACITOR >							
C701	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C731	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C702	1-124-584-00	ELECT	100uF 20% 10V (MX,AR)	C732	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C702	1-126-392-11	ELECT CHIP	100uF 20% 6.3V (EXCEPT MX,AR)	C733	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C703	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C734	1-162-917-11	CERAMIC CHIP	15PF 5% 50V
C704	1-124-589-11	ELECT	47uF 20% 16V (MX,AR)	C735	1-162-918-11	CERAMIC CHIP	18PF 5% 50V
C704	1-126-391-11	ELECT CHIP	47uF 20% 6.3V (EXCEPT MX,AR)	C741	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C705	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C742	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C706	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C743	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V
C707	1-124-584-00	ELECT	100uF 20% 10V (MX,AR)	C744	1-125-837-11	CERAMIC CHIP	1uF 10% 6.3V
C707	1-126-392-11	ELECT CHIP	100uF 20% 6.3V (EXCEPT MX,AR)	C745	1-162-949-11	CERAMIC CHIP	47PF 5% 50V (MX,AR)
C708	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C746	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C709	1-124-584-00	ELECT	100uF 20% 10V (MX,AR)	C747	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C709	1-126-392-11	ELECT CHIP	100uF 20% 6.3V (EXCEPT MX,AR)	C748	1-126-934-11	ELECT	220uF 20% 10V (MX,AR)
C710	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V	C748	1-128-360-11	ELECT CHIP	220uF 20% 10V (EXCEPT MX,AR)
C711	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C750	1-162-949-11	CERAMIC CHIP	47PF 5% 50V (MX,AR)
C712	1-162-949-11	CERAMIC CHIP	47PF 5% 50V	C751	1-162-949-11	CERAMIC CHIP	47PF 5% 50V (MX,AR)
C713	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	C752	1-162-949-11	CERAMIC CHIP	47PF 5% 50V (MX,AR)
C714	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C753	1-162-949-11	CERAMIC CHIP	47PF 5% 50V
C715	1-126-160-11	ELECT	1uF 20% 50V (MX,AR)	C754	1-162-949-11	CERAMIC CHIP	47PF 5% 50V
C715	1-126-401-21	ELECT CHIP	1uF 20% 50V (EXCEPT MX,AR)	C756	1-162-949-11	CERAMIC CHIP	47PF 5% 50V
C716	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C802	1-164-156-11	CERAMIC CHIP	0.1uF 25V (EXCEPT MX,AR)
C717	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	C803	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V (EXCEPT MX,AR)
C718	1-115-156-11	CERAMIC CHIP	1uF 10V	C804	1-162-945-11	CERAMIC CHIP	22PF 5% 50V (EXCEPT MX,AR)
C719	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	C805	1-126-392-11	ELECT CHIP	100uF 20% 6.3V (EXCEPT MX,AR)
C720	1-162-953-11	CERAMIC CHIP	100PF 5% 50V	C806	1-164-156-11	CERAMIC CHIP	0.1uF 25V (EXCEPT MX,AR)
C721	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C807	1-126-392-11	ELECT CHIP	100uF 20% 6.3V (EXCEPT MX,AR)
C722	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C810	1-164-156-11	CERAMIC CHIP	0.1uF 25V (EXCEPT MX,AR)
C723	1-124-584-00	ELECT	100uF 20% 10V (MX,AR)	C811	1-164-156-11	CERAMIC CHIP	0.1uF 25V (EXCEPT MX,AR)
C723	1-126-392-11	ELECT CHIP	100uF 20% 6.3V (EXCEPT MX,AR)				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C812	1-115-156-11	CERAMIC CHIP	1uF 10V (EXCEPT MX,AR)	FB807	1-550-907-21	BEAD, FERRITE (CHIP) (EXCEPT MX,AR)	
C813	1-164-156-11	CERAMIC CHIP	0.1uF 25V (EXCEPT MX,AR)	FB808	1-550-907-21	BEAD, FERRITE (CHIP) (EXCEPT MX,AR)	
C814	1-126-392-11	ELECT CHIP	100uF 20% 6.3V (EXCEPT MX,AR)			< IC >	
C815	1-128-360-11	ELECT CHIP	220uF 20% 10V (EXCEPT MX,AR)	IC721	6-701-796-01	IC LC78646E-E	
C816	1-164-156-11	CERAMIC CHIP	0.1uF 25V (EXCEPT MX,AR)	IC722	6-704-220-01	IC BA5836FP	
				IC801	6-704-008-01	IC LC78684E-E (EXCEPT MX,AR)	
				IC802	6-704-009-01	IC LC32V4265CT-25-MPB-E (EXCEPT MX,AR)	
				IC803	6-704-007-01	IC MM1571J (EXCEPT MX,AR)	
C817	1-164-156-11	CERAMIC CHIP	0.1uF 25V (EXCEPT MX,AR)			< TRANSISTOR >	
C823	1-162-949-11	CERAMIC CHIP	47PF 5% 50V (EXCEPT MX,AR)	Q701	8-729-054-57	TRANSISTOR KTN2907AS-RTK	
C824	1-162-949-11	CERAMIC CHIP	47PF 5% 50V (EXCEPT MX,AR)			< RESISTOR >	
C825	1-162-949-11	CERAMIC CHIP	47PF 5% 50V (EXCEPT MX,AR)	R701	1-216-841-11	METAL CHIP	47K 5% 1/10W
C829	1-162-949-11	CERAMIC CHIP	47PF 5% 50V (EXCEPT MX,AR)	R702	1-216-835-11	METAL CHIP	15K 5% 1/10W
				R703	1-216-835-11	METAL CHIP	15K 5% 1/10W
				R704	1-216-835-11	METAL CHIP	15K 5% 1/10W
				R705	1-216-835-11	METAL CHIP	15K 5% 1/10W
C830	1-162-945-11	CERAMIC CHIP	22PF 5% 50V (EXCEPT MX,AR)	R706	1-216-841-11	METAL CHIP	47K 5% 1/10W
C831	1-162-945-11	CERAMIC CHIP	22PF 5% 50V (EXCEPT MX,AR)	R707	1-216-797-11	METAL CHIP	10 5% 1/10W
C834	1-128-360-11	ELECT CHIP	220uF 20% 10V (EXCEPT MX,AR)	R708	1-216-833-11	METAL CHIP	10K 5% 1/10W
C835	1-164-156-11	CERAMIC CHIP	0.1uF 25V (EXCEPT MX,AR)	R709	1-216-838-11	METAL CHIP	27K 5% 1/10W
C837	1-164-156-11	CERAMIC CHIP	0.1uF 25V (EXCEPT MX,AR)	R711	1-216-815-11	METAL CHIP	330 5% 1/10W
C843	1-164-156-11	CERAMIC CHIP	0.1uF 25V (EXCEPT MX,AR)	R713	1-216-821-11	METAL CHIP	1K 5% 1/10W
C844	1-164-156-11	CERAMIC CHIP	0.1uF 25V (EXCEPT MX,AR)	R714	1-216-809-11	METAL CHIP	100 5% 1/10W
C856	1-115-156-11	CERAMIC CHIP	1uF 10V (EXCEPT MX,AR)	R715	1-216-809-11	METAL CHIP	100 5% 1/10W
C857	1-162-945-11	CERAMIC CHIP	22PF 5% 50V (EXCEPT MX,AR)	R716	1-216-809-11	METAL CHIP	100 5% 1/10W
C858	1-162-945-11	CERAMIC CHIP	22PF 5% 50V (EXCEPT MX,AR)	R717	1-216-809-11	METAL CHIP	100 5% 1/10W
				R718	1-216-809-11	METAL CHIP	100 5% 1/10W
				R719	1-216-809-11	METAL CHIP	100 5% 1/10W
				R720	1-216-809-11	METAL CHIP	100 5% 1/10W
				R721	1-216-809-11	METAL CHIP	100 5% 1/10W
				R722	1-216-809-11	METAL CHIP	100 5% 1/10W (MX,AR)
				R722	1-216-821-11	METAL CHIP	1K 5% 1/10W (EXCEPT MX,AR)
C859	1-162-945-11	CERAMIC CHIP	22PF 5% 50V (EXCEPT MX,AR)	R725	1-216-819-11	METAL CHIP	680 5% 1/10W
C860	1-162-953-11	CERAMIC CHIP	100PF 5% 50V (EXCEPT MX,AR)	R726	1-216-819-11	METAL CHIP	680 5% 1/10W
				R727	1-216-809-11	METAL CHIP	100 5% 1/10W
				R728	1-216-841-11	METAL CHIP	47K 5% 1/10W
				R729	1-216-834-11	METAL CHIP	12K 5% 1/10W
				R730	1-216-822-11	METAL CHIP	1.2K 5% 1/10W
				R731	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
				R732	1-216-864-11	METAL CHIP	0 5% 1/10W
				R738	1-216-867-11	METAL CHIP	6.8K 5% 1/10W
				R739	1-216-864-11	METAL CHIP	0 5% 1/10W
				R740	1-216-867-11	METAL CHIP	6.8K 5% 1/10W
				R741	1-216-864-11	METAL CHIP	0 5% 1/10W
				R744	1-216-845-11	METAL CHIP	100K 5% 1/10W
				R745	1-216-809-11	METAL CHIP	100 5% 1/10W
				R746	1-216-803-11	METAL CHIP	33 5% 1/10W
				R747	1-216-803-11	METAL CHIP	33 5% 1/10W
				R751	1-216-841-11	METAL CHIP	47K 5% 1/10W (MX,AR)
				R752	1-216-841-11	METAL CHIP	47K 5% 1/10W (MX,AR)
				R753	1-216-841-11	METAL CHIP	47K 5% 1/10W (MX,AR)
FB701	1-550-907-21	BEAD, FERRITE (CHIP)					
FB707	1-550-907-21	BEAD, FERRITE (CHIP)					
FB708	1-550-907-21	BEAD, FERRITE (CHIP)					
FB801	1-550-907-21	BEAD, FERRITE (CHIP) (EXCEPT MX,AR)					
FB802	1-550-907-21	BEAD, FERRITE (CHIP) (EXCEPT MX,AR)					
FB803	1-550-907-21	BEAD, FERRITE (CHIP) (EXCEPT MX,AR)					
FB804	1-550-907-21	BEAD, FERRITE (CHIP) (EXCEPT MX,AR)					
FB805	1-550-907-21	BEAD, FERRITE (CHIP) (EXCEPT MX,AR)					
FB806	1-550-907-21	BEAD, FERRITE (CHIP) (EXCEPT MX,AR)					

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GAME JACK	H/P JACK	MAIN
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Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
< JUMPER RESISTOR >											
JR001	1-216-864-11	METAL CHIP	0	5%	1/10W	C240	1-126-964-11	ELECT	10uF	20%	50V
		< RESISTOR >				C241	1-130-479-00	MYLAR	0.0047uF	5%	50V
R001	1-216-833-11	METAL CHIP	10K	5%	1/10W	C242	1-130-485-00	MYLAR	0.015uF	5%	50V
R002	1-216-833-11	METAL CHIP	10K	5%	1/10W	C244	1-126-947-11	ELECT	47uF	20%	16V
R003	1-216-837-11	METAL CHIP	22K	5%	1/10W	C247	1-126-961-11	ELECT	2.2uF	20%	50V
R004	1-216-837-11	METAL CHIP	22K	5%	1/10W	C248	1-126-961-11	ELECT	2.2uF	20%	50V

H/P JACK BOARD											

< CAPACITOR >											
C006	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C255	1-126-961-11	ELECT	2.2uF	20%	50V
C007	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C256	1-126-959-11	ELECT	0.47uF	20%	50V
C008	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C257	1-126-956-11	ELECT	0.1uF	20%	50V
		< JACK >				C258	1-126-963-11	ELECT	4.7uF	20%	50V
JK002	1-691-293-21	JACK (PHONES)				C259	1-128-551-11	ELECT	22uF	20%	25V

A-4732-773-A MAIN BOARD, COMPLETE (CND)											
A-4748-386-A MAIN BOARD, COMPLETE (AEP,UK)											
A-4748-473-A MAIN BOARD, COMPLETE (E2,E51,MX,AR)											

7-685-872-09	SCREW +BVTT 3X8 (S)					C268	1-126-960-11	ELECT	1uF	20%	50V
		< CAPACITOR >				C269	1-126-960-11	ELECT	1uF	20%	50V
C101	1-126-963-11	ELECT	4.7uF	20%	50V	C272	1-126-960-11	ELECT	1uF	20%	50V
C102	1-126-963-11	ELECT	4.7uF	20%	50V	C273	1-126-960-11	ELECT	1uF	20%	50V
C103	1-126-933-11	ELECT	100uF	20%	16V	C285	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C105	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C286	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
		(AEP,UK)				C300	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
C106	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C303	1-104-665-11	ELECT	100uF	20%	10V
C107	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C304	1-126-963-11	ELECT	4.7uF	20%	50V
C201	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C305	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C202	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V						(AEP,UK)
C203	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C306	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C204	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C307	1-126-964-11	ELECT	10uF	20%	50V
C205	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C308	1-126-964-11	ELECT	10uF	20%	50V
		(AEP,UK)				C309	1-126-964-11	ELECT	10uF	20%	50V
C206	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C310	1-126-964-11	ELECT	10uF	20%	50V
C221	1-126-947-11	ELECT	47uF	20%	16V	C311	1-126-964-11	ELECT	10uF	20%	50V
C223	1-137-350-11	MYLAR	0.015uF	5%	100V	C312	1-126-964-11	ELECT	10uF	20%	50V
C225	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C313	1-107-714-11	ELECT	10uF	20%	16V
C226	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C314	1-107-714-11	ELECT	10uF	20%	16V
C227	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C317	1-126-964-11	ELECT	10uF	20%	50V
C228	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C318	1-126-964-11	ELECT	10uF	20%	50V
C230	1-162-949-11	CERAMIC CHIP	47PF	5%	50V	C319	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C231	1-162-949-11	CERAMIC CHIP	47PF	5%	50V	C320	1-130-487-00	MYLAR	0.022uF	5%	50V
C232	1-126-947-11	ELECT	47uF	20%	16V	C321	1-130-487-00	MYLAR	0.022uF	5%	50V
C233	1-130-485-00	MYLAR	0.015uF	5%	50V	C323	1-130-487-00	MYLAR	0.022uF	5%	50V
C234	1-130-485-00	MYLAR	0.015uF	5%	50V						
C235	1-126-960-11	ELECT	1uF	20%	50V	C324	1-130-487-00	MYLAR	0.022uF	5%	50V
C236	1-126-933-11	ELECT	100uF	20%	16V	C325	1-130-491-00	MYLAR	0.047uF	5%	50V
C237	1-126-960-11	ELECT	1uF	20%	50V	C326	1-130-491-00	MYLAR	0.047uF	5%	50V
C239	1-130-485-00	MYLAR	0.015uF	5%	50V	C327	1-130-476-00	MYLAR	0.0027uF	5%	50V
						C328	1-130-476-00	MYLAR	0.0027uF	5%	50V
						C331	1-130-494-11	MYLAR	0.082uF	5%	50V
						C332	1-130-494-11	MYLAR	0.082uF	5%	50V
						C333	1-130-493-00	MYLAR	0.068uF	5%	50V
						C334	1-130-493-00	MYLAR	0.068uF	5%	50V
						C337	1-126-964-11	ELECT	10uF	20%	50V
						C339	1-126-934-11	ELECT	220uF	20%	16V

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MAIN

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark
C342	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C430	1-162-960-11	CERAMIC CHIP	220PF	10% 50V (AEP,UK)
C345	1-126-933-11	ELECT	100uF	20% 16V	C431	1-162-915-11	CERAMIC CHIP	10PF	0.5PF 50V (AEP,UK)
C348	1-126-947-11	ELECT	47uF	20% 16V	C432	1-162-915-11	CERAMIC CHIP	10PF	0.5PF 50V (AEP,UK)
C349	1-126-964-11	ELECT	10uF	20% 50V (EXCEPT AEP,UK)	C433	1-162-915-11	CERAMIC CHIP	10PF	0.5PF 50V (AEP,UK)
C350	1-126-964-11	ELECT	10uF	20% 50V	C434	1-162-915-11	CERAMIC CHIP	10PF	0.5PF 50V (AEP,UK)
C353	1-162-962-11	CERAMIC CHIP	470PF	10% 50V	C435	1-162-915-11	CERAMIC CHIP	10PF	0.5PF 50V (AEP,UK)
C354	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	C436	1-162-915-11	CERAMIC CHIP	10PF	0.5PF 50V (AEP,UK)
C355	1-162-962-11	CERAMIC CHIP	470PF	10% 50V	C437	1-162-960-11	CERAMIC CHIP	220PF	10% 50V (AEP,UK)
C356	1-162-962-11	CERAMIC CHIP	470PF	10% 50V	C438	1-162-960-11	CERAMIC CHIP	220PF	10% 50V (AEP,UK)
C357	1-126-926-11	ELECT	1000uF	20% 10V	C441	1-165-128-11	CERAMIC CHIP	0.22uF	16V
C359	1-126-947-11	ELECT	47uF	20% 16V	C444	1-162-923-11	CERAMIC CHIP	47PF	5% 50V (AEP,UK)
C361	1-162-960-11	CERAMIC CHIP	220PF	10% 50V	C445	1-162-962-11	CERAMIC CHIP	470PF	10% 50V (AEP,UK)
C362	1-162-960-11	CERAMIC CHIP	220PF	10% 50V	C448	1-164-156-11	CERAMIC CHIP	0.1uF	25V (AEP,UK)
C363	1-126-964-11	ELECT	10uF	20% 50V	C449	1-162-919-11	CERAMIC CHIP	22PF	5% 50V (AEP,UK)
C364	1-126-964-11	ELECT	10uF	20% 50V	C450	1-126-964-11	ELECT	10uF	20% 50V
C365	1-162-960-11	CERAMIC CHIP	220PF	10% 50V	C451	1-162-960-11	CERAMIC CHIP	220PF	10% 50V (AEP,UK)
C366	1-162-960-11	CERAMIC CHIP	220PF	10% 50V	C452	1-162-960-11	CERAMIC CHIP	220PF	10% 50V (AEP,UK)
C369	1-126-964-11	ELECT	10uF	20% 50V	C453	1-162-927-11	CERAMIC CHIP	100PF	5% 50V (AEP,UK)
C370	1-126-964-11	ELECT	10uF	20% 50V	< CONNECTOR >				
C371	1-126-947-11	ELECT	47uF	20% 16V	CN101	1-568-830-11	CONNECTOR, FFC 11P (EXCEPT AEP,UK)		
C372	1-126-964-11	ELECT	10uF	20% 50V	CN101	1-784-776-11	CONNECTOR, FFC 15P (AEP,UK)		
C373	1-130-483-00	MYLAR	0.01uF	5% 50V	CN102	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P (AEP,UK)		
C374	1-130-483-00	MYLAR	0.01uF	5% 50V	* CN202	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P		
C375	1-126-943-11	ELECT	2200uF	20% 25V	* CN203	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P		
C377	1-126-963-11	ELECT	4.7uF	20% 50V	CN303	1-564-506-11	PLUG, CONNECTOR 3P		
C378	1-164-156-11	CERAMIC CHIP	0.1uF	25V	CN304	1-784-792-11	CONNECTOR, FFC 31P		
C380	1-126-935-11	ELECT	470uF	20% 16V	* CN305	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P		
C381	1-126-947-11	ELECT	47uF	20% 16V	CN306	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P		
C386	1-126-947-11	ELECT	47uF	20% 16V	CN307	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P		
C390	1-162-953-11	CERAMIC CHIP	100PF	5% 50V	CN310	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P		
C391	1-162-953-11	CERAMIC CHIP	100PF	5% 50V	CN311	1-568-828-11	CONNECTOR, FFC 9P		
C392	1-162-953-11	CERAMIC CHIP	100PF	5% 50V	CN312	1-784-780-11	CONNECTOR, FFC 19P		
C393	1-126-959-11	ELECT	0.47uF	20% 50V	< DIODE >				
C397	1-104-665-11	ELECT	100uF	20% 10V	D101	8-719-988-61	DIODE 1SS355TE-17 (AEP,UK)		
C398	1-126-964-11	ELECT	10uF	20% 50V	D102	6-500-522-21	DIODE 10EDB40-TB3		
C399	1-126-935-11	ELECT	470uF	20% 16V	D203	8-719-988-61	DIODE 1SS355TE-17		
C401	1-164-156-11	CERAMIC CHIP	0.1uF	25V	D204	8-719-988-61	DIODE 1SS355TE-17		
C402	1-164-156-11	CERAMIC CHIP	0.1uF	25V	D205	8-719-988-61	DIODE 1SS355TE-17		
C411	1-107-713-11	ELECT	4.7uF	20% 35V	D206	8-719-988-61	DIODE 1SS355TE-17		
C412	1-107-713-11	ELECT	4.7uF	20% 35V	D210	8-719-988-61	DIODE 1SS355TE-17		
C417	1-126-926-11	ELECT	1000uF	20% 10V	D301	6-500-522-21	DIODE 10EDB40-TB3		
C418	1-130-483-00	MYLAR	0.01uF	5% 50V	D302	6-500-522-21	DIODE 10EDB40-TB3		
C419	1-130-483-00	MYLAR	0.01uF	5% 50V	D303	6-500-522-21	DIODE 10EDB40-TB3		
C420	1-126-943-11	ELECT	2200uF	20% 25V					
C421	1-126-934-11	ELECT	220uF	20% 16V					
C423	1-126-947-11	ELECT	47uF	20% 16V					
C424	1-162-919-11	CERAMIC CHIP	22PF	5% 50V (AEP,UK)					
C425	1-162-923-11	CERAMIC CHIP	47PF	5% 50V (AEP,UK)					
C426	1-162-962-11	CERAMIC CHIP	470PF	10% 50V (AEP,UK)					
C427	1-162-927-11	CERAMIC CHIP	100PF	5% 50V (AEP,UK)					
C428	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V (AEP,UK)					
C429	1-162-927-11	CERAMIC CHIP	100PF	5% 50V (AEP,UK)					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark		
D304	6-500-522-21	DIODE 10EDB40-TB3				< COIL >			
D305	8-719-988-61	DIODE 1SS355TE-17		L201	1-424-849-11	COIL, OSCILLATION (BIAS)			
D306	8-719-988-61	DIODE 1SS355TE-17				< TRANSISTOR >			
D307	8-719-988-61	DIODE 1SS355TE-17		Q210	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
D308	8-719-988-61	DIODE 1SS355TE-17		Q211	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
D311	8-719-988-61	DIODE 1SS355TE-17		Q212	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
D312	8-719-083-63	DIODE UDSZ-TE17-13B		Q218	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
D313	6-500-522-21	DIODE 10EDB40-TB3		Q219	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
D314	6-500-522-21	DIODE 10EDB40-TB3		Q220	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
D315	6-500-522-21	DIODE 10EDB40-TB3		Q221	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
D316	6-500-522-21	DIODE 10EDB40-TB3		Q222	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
D317	8-719-988-61	DIODE 1SS355TE-17		Q223	8-729-142-46	TRANSISTOR 2SC2001-LK			
D318	8-719-085-36	DIODE 11EQS04-TB5		Q225	6-550-289-01	TRANSISTOR 2SA1235F			
D319	6-500-522-21	DIODE 10EDB40-TB3		Q228	8-729-140-04	TRANSISTOR 2SB1116A-L			
D320	6-500-522-21	DIODE 10EDB40-TB3		Q301	6-550-296-01	TRANSISTOR 2SA1980G			
D321	6-500-522-21	DIODE 10EDB40-TB3		Q302	8-729-120-28	TRANSISTOR 2SC3052F-T1-LF			
D322	6-500-522-21	DIODE 10EDB40-TB3		Q304	6-550-296-01	TRANSISTOR 2SA1980G			
D323	8-719-085-36	DIODE 11EQS04-TB5		Q310	8-729-052-79	TRANSISTOR 2SD1306NETL			
D324	8-719-988-61	DIODE 1SS355TE-17		Q311	8-729-052-79	TRANSISTOR 2SD1306NETL			
D325	8-719-988-61	DIODE 1SS355TE-17		Q312	6-550-289-01	TRANSISTOR 2SA1235F			
D364	8-719-988-61	DIODE 1SS355TE-17		Q321	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
D366	8-719-988-61	DIODE 1SS355TE-17		Q322	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
D371	8-719-988-61	DIODE 1SS355TE-17		Q324	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
D374	8-719-988-61	DIODE 1SS355TE-17		Q329	6-550-289-01	TRANSISTOR 2SA1235F			
< EARTH TERMINAL >									
* G1	1-537-738-21	TERMINAL, EARTH		Q330	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
* G2	1-537-738-21	TERMINAL, EARTH (AEP,UK)		Q331	6-550-289-01	TRANSISTOR 2SA1235F			
< IC >									
IC201	6-702-130-01	IC HA12237F		< RESISTOR >					
IC301	6-703-650-11	IC M61529FP-D60G		R101	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC304	8-759-710-97	IC NJM4565M-D		R102	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC305	8-759-701-59	IC NJM78M09FA		R215	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
IC306	6-701-760-01	IC uPC3504AHF		R216	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
IC308	8-759-701-59	IC NJM78M09FA		R218	1-216-849-11	METAL CHIP	220K	5%	1/10W
IC309	6-704-046-01	IC BU2099FV		R219	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC310	6-704-046-01	IC BU2099FV		R220	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC313	8-759-231-57	IC TA7810S		R225	1-216-834-11	METAL CHIP	12K	5%	1/10W
< JUMPER RESISTOR >									
JR124	1-216-864-11	METAL CHIP	0	R226	1-216-834-11	METAL CHIP	12K	5%	1/10W
JR300	1-216-864-11	METAL CHIP	0	R231	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
JR329	1-216-864-11	METAL CHIP	0	R232	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
JR330	1-216-864-11	METAL CHIP	0	R233	1-216-837-11	METAL CHIP	22K	5%	1/10W
JR331	1-216-864-11	METAL CHIP	0	R234	1-216-837-11	METAL CHIP	22K	5%	1/10W
JR332	1-216-864-11	METAL CHIP	0	R235	1-216-833-11	METAL CHIP	10K	5%	1/10W
JR333	1-216-864-11	METAL CHIP	0	R236	1-216-821-11	METAL CHIP	1K	5%	1/10W
JR339	1-216-864-11	METAL CHIP	0	R237	1-216-857-11	METAL CHIP	1M	5%	1/10W
JR341	1-216-864-11	METAL CHIP	0	R238	1-216-853-11	METAL CHIP	470K	5%	1/10W
JR343	1-216-864-11	METAL CHIP	0	R239	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
JR344	1-216-864-11	METAL CHIP	0	R241	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
JR345	1-216-864-11	METAL CHIP	0	R242	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
JR358	1-216-864-11	METAL CHIP	0	R245	1-216-833-11	METAL CHIP	10K	5%	1/10W
JR360	1-216-864-11	METAL CHIP	0	R246	1-216-841-11	METAL CHIP	47K	5%	1/10W
JR453	1-216-864-11	METAL CHIP	0	R249	1-216-853-11	METAL CHIP	470K	5%	1/10W
(EXCEPT AEP,UK)									
JR360	1-216-864-11	METAL CHIP	0	R250	1-216-849-11	METAL CHIP	220K	5%	1/10W
JR453	1-216-864-11	METAL CHIP	0	R251	1-216-793-11	METAL CHIP	4.7	5%	1/10W
(AEP,UK)									
				R252	1-216-838-11	METAL CHIP	27K	5%	1/10W

HCD-GX35/RG310/RG330

MAIN

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark		
R253	1-216-833-11	METAL CHIP	10K	5%	1/10W	R348	1-216-837-11	METAL CHIP	22K	5%	1/10W
R256	1-216-833-11	METAL CHIP	10K	5%	1/10W	R352	1-218-717-11	METAL CHIP	11K	5%	1/10W
R257	1-216-817-11	METAL CHIP	470	5%	1/10W	R353	1-218-717-11	METAL CHIP	11K	5%	1/10W
R258	1-216-809-11	METAL CHIP	100	5%	1/10W	R354	1-216-841-11	METAL CHIP	47K	5%	1/10W
R260	1-216-809-11	METAL CHIP	100	5%	1/10W	R355	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R261	1-216-817-11	METAL CHIP	470	5%	1/10W	R356	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R262	1-216-845-11	METAL CHIP	100K	5%	1/10W	R358	1-216-837-11	METAL CHIP	22K	5%	1/10W
R263	1-216-833-11	METAL CHIP	10K	5%	1/10W	R360	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R264	1-216-833-11	METAL CHIP	10K	5%	1/10W	R361	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R265	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R362	1-216-837-11	METAL CHIP	22K	5%	1/10W
R266	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R363	1-216-837-11	METAL CHIP	22K	5%	1/10W
R267	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R364	1-216-845-11	METAL CHIP	100K	5%	1/10W
R268	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R365	1-216-857-11	METAL CHIP	1M	5%	1/10W
R269	1-216-833-11	METAL CHIP	10K	5%	1/10W	R368	1-216-809-11	METAL CHIP	100	5%	1/10W
R270	1-216-833-11	METAL CHIP	10K	5%	1/10W	R369	1-216-809-11	METAL CHIP	100	5%	1/10W
R271	1-216-833-11	METAL CHIP	10K	5%	1/10W	R371	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R272	1-216-833-11	METAL CHIP	10K	5%	1/10W	R372	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R273	1-216-833-11	METAL CHIP	10K	5%	1/10W	R373	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R278	1-216-837-11	METAL CHIP	22K	5%	1/10W	R374	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R282	1-216-809-11	METAL CHIP	100	5%	1/10W	R377	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R283	1-216-833-11	METAL CHIP	10K	5%	1/10W	R378	1-216-833-11	METAL CHIP	10K	5%	1/10W
R284	1-216-833-11	METAL CHIP	10K	5%	1/10W	R379	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R285	1-216-833-11	METAL CHIP	10K	5%	1/10W	R380	1-216-853-11	METAL CHIP	470K	5%	1/10W
R286	1-216-833-11	METAL CHIP	10K	5%	1/10W	R384	1-218-717-11	METAL CHIP	11K	5%	1/10W
R287	1-216-833-11	METAL CHIP	10K	5%	1/10W	R386	1-216-833-11	METAL CHIP	10K	5%	1/10W
R288	1-216-833-11	METAL CHIP	10K	5%	1/10W	R387	1-216-834-11	METAL CHIP	12K	5%	1/10W
R305	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R388	1-216-821-11	METAL CHIP	1K	5%	1/10W
R306	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R395	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R307	1-216-809-11	METAL CHIP	100	5%	1/10W	R396	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R309	1-216-833-11	METAL CHIP	10K	5%	1/10W	R397	1-216-833-11	METAL CHIP	10K	5%	1/10W
R310	1-216-833-11	METAL CHIP	10K	5%	1/10W	R398	1-216-833-11	METAL CHIP	10K	5%	1/10W
R311	1-216-833-11	METAL CHIP	10K	5%	1/10W (EXCEPT AEP,UK)	R399	1-216-833-11	METAL CHIP	10K	5%	1/10W
R311	1-216-835-11	METAL CHIP	15K	5%	1/10W (AEP,UK)	R400	1-216-833-11	METAL CHIP	10K	5%	1/10W
R312	1-216-833-11	METAL CHIP	10K	5%	1/10W (EXCEPT AEP,UK)	R401	1-216-833-11	METAL CHIP	10K	5%	1/10W
R312	1-216-835-11	METAL CHIP	15K	5%	1/10W (AEP,UK)	R402	1-216-833-11	METAL CHIP	10K	5%	1/10W
R313	1-216-845-11	METAL CHIP	100K	5%	1/10W	R404	1-216-833-11	METAL CHIP	10K	5%	1/10W
R314	1-216-845-11	METAL CHIP	100K	5%	1/10W	R405	1-216-833-11	METAL CHIP	10K	5%	1/10W
R316	1-216-833-11	METAL CHIP	10K	5%	1/10W	R406	1-216-837-11	METAL CHIP	22K	5%	1/10W
R317	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R407	1-216-833-11	METAL CHIP	10K	5%	1/10W
R318	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R408	1-216-833-11	METAL CHIP	10K	5%	1/10W
R319	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R409	1-216-833-11	METAL CHIP	10K	5%	1/10W
R320	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R410	1-216-833-11	METAL CHIP	10K	5%	1/10W
R321	1-216-833-11	METAL CHIP	10K	5%	1/10W	R421	1-216-833-11	METAL CHIP	10K	5%	1/10W
R322	1-216-833-11	METAL CHIP	10K	5%	1/10W	R422	1-216-806-11	METAL CHIP	56	5%	1/10W
R323	1-216-821-11	METAL CHIP	1K	5%	1/10W	R423	1-216-806-11	METAL CHIP	56	5%	1/10W
R324	1-216-809-11	METAL CHIP	100	5%	1/10W	R424	1-216-837-11	METAL CHIP	22K	5%	1/10W
R325	1-216-833-11	METAL CHIP	10K	5%	1/10W	R425	1-216-837-11	METAL CHIP	22K	5%	1/10W
R326	1-216-833-11	METAL CHIP	10K	5%	1/10W	R426	1-216-837-11	METAL CHIP	22K	5%	1/10W
R328	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R427	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R329	1-216-801-11	METAL CHIP	22	5%	1/10W (AEP,UK)	R428	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R330	1-216-833-11	METAL CHIP	10K	5%	1/10W	R429	1-216-821-11	METAL CHIP	1K	5%	1/10W
R344	1-216-841-11	METAL CHIP	47K	5%	1/10W	R430	1-216-833-11	METAL CHIP	10K	5%	1/10W
R345	1-216-841-11	METAL CHIP	47K	5%	1/10W	R431	1-216-847-11	METAL CHIP	150K	5%	1/10W
R346	1-216-837-11	METAL CHIP	22K	5%	1/10W	R432	1-216-809-11	METAL CHIP	100	5%	1/10W
					△ R433	1-215-891-11	METAL OXIDE	680	5%	2W F	
					△ R434	1-215-891-11	METAL OXIDE	680	5%	2W F	
					R435	1-216-857-11	METAL CHIP	1M	5%	1/10W	
					R455	1-218-717-11	METAL CHIP	11K	5%	1/10W	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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MAIN	MOTOR (LD)	MOTOR (TB)	PANEL
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Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description		Remark	
R456	1-218-717-11	METAL CHIP	11K	5%	1/10W	C644	1-124-234-00	ELECT	22uF	20%	16V
R457	1-216-837-11	METAL CHIP	22K	5%	1/10W	C646	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R459	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C647	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R460	1-216-821-11	METAL CHIP	1K	5%	1/10W	C648	1-124-257-00	ELECT	2.2uF	20%	50V
R461	1-216-821-11	METAL CHIP	1K	5%	1/10W	C649	1-124-234-00	ELECT	22uF	20%	16V
R465	1-216-837-11	METAL CHIP	22K	5%	1/10W	C650	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
R466	1-216-837-11	METAL CHIP	22K	5%	1/10W			< CONNECTOR >			
R480	1-216-833-11	METAL CHIP	10K	5%	1/10W	CN601	1-784-753-11	CONNECTOR, FFC 31P			
R481	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	CN602	1-784-731-11	CONNECTOR, FFC 9P			
R482	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	CN603	1-816-422-11	PIN, CONNECTOR 3P			
R483	1-216-821-11	METAL CHIP	1K	5%	1/10W	CN605	1-784-735-11	CONNECTOR, FFC 13P			
R484	1-216-833-11	METAL CHIP	10K	5%	1/10W	* CN607	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P			
R486	1-216-809-11	METAL CHIP	100	5%	1/10W			< DIODE >			
R487	1-216-134-00	METAL CHIP	2.2	5%	1/8W	D606	8-719-988-61	DIODE 1SS355TE-17 (CND)			
R488	1-216-134-00	METAL CHIP	2.2	5%	1/8W	D607	8-719-988-61	DIODE 1SS355TE-17 (CND)			

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

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

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

A-4748-555-A PANEL BOARD, COMPLETE (AEP,UK)											
A-4748-606-A PANEL BOARD, COMPLETE (CND)											
A-4748-677-A PANEL BOARD, COMPLETE (E2,E51,MX,AR)											

4-244-690-01 FL HOLDER (L)											
4-244-691-01 FL HOLDER (R)											
< CAPACITOR >											
C601	1-124-247-11	ELECT	10uF	20%	35V	D623	8-719-988-61	DIODE 1SS355TE-17			
C602	1-124-247-11	ELECT	10uF	20%	35V	D624	8-719-988-61	DIODE 1SS355TE-17			
C603	1-124-589-11	ELECT	47uF	20%	16V	D625	8-719-988-61	DIODE 1SS355TE-17			
C604	1-124-261-00	ELECT	10uF	20%	50V	D626	8-719-083-61	DIODE UDZS-TE17-11B (E2,E51,MX,AR)			
C611	1-126-916-11	ELECT	1000uF	20%	6.3V	D627	8-719-988-61	DIODE 1SS355TE-17			
C612	1-115-156-11	CERAMIC CHIP	1uF		10V	D628	8-719-988-61	DIODE 1SS355TE-17			
C614	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	D629	8-719-988-61	DIODE 1SS355TE-17			
C615	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	D630	8-719-988-61	DIODE 1SS355TE-17			
C616	1-115-156-11	CERAMIC CHIP	1uF		10V	D631	8-719-988-61	DIODE 1SS355TE-17			
C617	1-162-961-11	CERAMIC CHIP	330PF	10%	50V	D633	8-719-988-61	DIODE 1SS355TE-17			
C618	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D634	8-719-988-61	DIODE 1SS355TE-17			
C619	1-124-234-00	ELECT	22uF	20%	16V			< COIL >			
C620	1-164-156-11	CERAMIC CHIP	0.1uF		25V	FB601	1-412-473-21	INDUCTOR (SMALL TYPE)			
C621	1-164-156-11	CERAMIC CHIP	0.1uF		25V			< FLUORESCENT INDICATOR >			
C622	1-164-156-11	CERAMIC CHIP	0.1uF		25V	FLD601	1-518-863-11	INDICATOR TUBE, FLUORESCENT			
C635	1-162-918-11	CERAMIC CHIP	18PF	5%	50V			< IC >			
C636	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	IC601	6-803-327-01	IC LC876780B-51Y0-E			
C637	1-124-464-11	ELECT	0.22uF	20%	50V	IC602	6-704-045-01	IC MM1574A			
C638	1-124-464-11	ELECT	0.22uF	20%	50V	IC603	8-759-533-04	IC M62703ML-E1			
C639	1-126-947-11	ELECT	47uF	20%	35V			< JUMPER RESISTOR >			
C640	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	JR604	1-216-864-11	METAL CHIP	0	5%	1/10W
C641	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	JR605	1-216-864-11	METAL CHIP	0	5%	1/10W
C642	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	JR606	1-216-864-11	METAL CHIP	0	5%	1/10W
C643	1-115-156-11	CERAMIC CHIP	1uF		10V						

HCD-GX35/RG310/RG330

PANEL

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark
JR607	1-216-864-11	METAL CHIP	0	5% 1/10W	R045	1-216-845-11	METAL CHIP	100K	5% 1/10W
JR608	1-216-864-11	METAL CHIP	0	5% 1/10W	R046	1-216-829-11	METAL CHIP	4.7K	5% 1/10W
JR609	1-216-864-11	METAL CHIP	0	5% 1/10W	R047	1-216-829-11	METAL CHIP	4.7K	5% 1/10W
JR610	1-216-864-11	METAL CHIP	0	5% 1/10W (EXCEPT AEP,UK)	R048	1-216-829-11	METAL CHIP	4.7K	5% 1/10W
JR611	1-216-864-11	METAL CHIP	0	5% 1/10W (EXCEPT AEP,UK)	R050	1-216-821-11	METAL CHIP	1K	5% 1/10W
JR613	1-216-864-11	METAL CHIP	0	5% 1/10W	R051	1-216-829-11	METAL CHIP	4.7K	5% 1/10W
JR614	1-216-864-11	METAL CHIP	0	5% 1/10W	R053	1-216-841-11	METAL CHIP	47K	5% 1/10W
JR615	1-216-864-11	METAL CHIP	0	5% 1/10W (E2,E51,MX,AR)	R054	1-216-841-11	METAL CHIP	47K	5% 1/10W
JR616	1-216-864-11	METAL CHIP	0	5% 1/10W (CND)	R055	1-216-841-11	METAL CHIP	47K	5% 1/10W
JR617	1-216-864-11	METAL CHIP	0	5% 1/10W (E2,E51,MX,AR)	R056	1-216-841-11	METAL CHIP	47K	5% 1/10W
JR618	1-216-864-11	METAL CHIP	0	5% 1/10W (CND)	R057	1-216-841-11	METAL CHIP	47K	5% 1/10W
JR619	1-216-864-11	METAL CHIP	0	5% 1/10W (E2,E51,MX,AR)	R058	1-216-841-11	METAL CHIP	47K	5% 1/10W
JR620	1-216-864-11	METAL CHIP	0	5% 1/10W (CND,AEP,UK)	R059	1-216-841-11	METAL CHIP	47K	5% 1/10W
JR621	1-216-864-11	METAL CHIP	0	5% 1/10W	R060	1-216-841-11	METAL CHIP	47K	5% 1/10W
JR623	1-216-864-11	METAL CHIP	0	5% 1/10W (CND,AEP,UK)	R061	1-216-841-11	METAL CHIP	47K	5% 1/10W
JR625	1-216-864-11	METAL CHIP	0	5% 1/10W	R062	1-216-841-11	METAL CHIP	47K	5% 1/10W
JR626	1-216-864-11	METAL CHIP	0	5% 1/10W	R063	1-216-841-11	METAL CHIP	47K	5% 1/10W
				< DIODE >	R064	1-216-841-11	METAL CHIP	47K	5% 1/10W
LED607	6-500-414-01	LED	HL-30105Q2AT (CD)		R065	1-216-841-11	METAL CHIP	47K	5% 1/10W
LED608	6-500-414-01	LED	HL-30105Q2AT (TUNER/BAND)		R066	1-216-841-11	METAL CHIP	47K	5% 1/10W
LED609	6-500-414-01	LED	HL-30105Q2AT (TAPE A/B)		R067	1-216-841-11	METAL CHIP	47K	5% 1/10W
LED612	6-500-414-01	LED	HL-30105Q2AT (GAME)		R068	1-216-841-11	METAL CHIP	47K	5% 1/10W
LED614	6-500-414-01	LED	HL-30105Q2AT (POWER)		R069	1-216-841-11	METAL CHIP	47K	5% 1/10W
				< TRANSISTOR >	R070	1-216-841-11	METAL CHIP	47K	5% 1/10W
Q601	8-729-120-28	TRANSISTOR	2SC1623-L5L6		R071	1-216-841-11	METAL CHIP	47K	5% 1/10W
Q602	8-729-120-28	TRANSISTOR	2SC1623-L5L6		R072	1-216-841-11	METAL CHIP	47K	5% 1/10W
Q603	8-729-120-28	TRANSISTOR	2SC1623-L5L6		R073	1-216-841-11	METAL CHIP	47K	5% 1/10W
Q604	8-729-120-28	TRANSISTOR	2SC1623-L5L6		R074	1-216-841-11	METAL CHIP	47K	5% 1/10W
Q607	8-729-120-28	TRANSISTOR	2SC1623-L5L6		R075	1-216-841-11	METAL CHIP	47K	5% 1/10W
Q609	8-729-120-28	TRANSISTOR	2SC1623-L5L6		R076	1-216-841-11	METAL CHIP	47K	5% 1/10W
Q610	8-729-120-28	TRANSISTOR	2SC1623-L5L6		R077	1-216-841-11	METAL CHIP	47K	5% 1/10W
Q616	8-729-140-04	TRANSISTOR	2SB1116A-L		R078	1-216-841-11	METAL CHIP	47K	5% 1/10W
Q617	8-729-140-04	TRANSISTOR	2SB1116A-L		R079	1-216-841-11	METAL CHIP	47K	5% 1/10W
Q618	8-729-116-56	TRANSISTOR	2SB1068-L		R080	1-216-841-11	METAL CHIP	47K	5% 1/10W
				< RESISTOR >	R081	1-216-841-11	METAL CHIP	47K	5% 1/10W
R030	1-216-809-11	METAL CHIP	100	5% 1/10W	R082	1-216-841-11	METAL CHIP	47K	5% 1/10W
R031	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	R083	1-216-841-11	METAL CHIP	47K	5% 1/10W
R032	1-216-848-11	METAL CHIP	180K	5% 1/10W	R084	1-216-841-11	METAL CHIP	47K	5% 1/10W
R033	1-216-837-11	METAL CHIP	22K	5% 1/10W	R085	1-216-841-11	METAL CHIP	47K	5% 1/10W
R034	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	R086	1-216-841-11	METAL CHIP	47K	5% 1/10W
R035	1-216-841-11	METAL CHIP	47K	5% 1/10W	R087	1-216-820-11	METAL CHIP	820	5% 1/10W
R036	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	R088	1-216-820-11	METAL CHIP	820	5% 1/10W
R037	1-216-817-11	METAL CHIP	470	5% 1/10W	R089	1-216-827-11	METAL CHIP	3.3K	5% 1/10W
R039	1-216-809-11	METAL CHIP	100	5% 1/10W	R090	1-216-827-11	METAL CHIP	3.3K	5% 1/10W
R040	1-216-845-11	METAL CHIP	100K	5% 1/10W	R601	1-216-839-11	METAL CHIP	33K	5% 1/10W
R041	1-216-845-11	METAL CHIP	100K	5% 1/10W	R602	1-216-809-11	METAL CHIP	100	5% 1/10W
R043	1-216-845-11	METAL CHIP	100K	5% 1/10W	R604	1-216-833-11	METAL CHIP	10K	5% 1/10W
R044	1-216-845-11	METAL CHIP	100K	5% 1/10W	R605	1-216-833-11	METAL CHIP	10K	5% 1/10W
					R606	1-216-825-11	METAL CHIP	2.2K	5% 1/10W
					R607	1-216-849-11	METAL CHIP	220K	5% 1/10W
					R608	1-216-809-11	METAL CHIP	100	5% 1/10W
					R609	1-216-833-11	METAL CHIP	10K	5% 1/10W
					R610	1-216-835-11	METAL CHIP	15K	5% 1/10W
					R611	1-216-809-11	METAL CHIP	100	5% 1/10W
					R612	1-216-809-11	METAL CHIP	100	5% 1/10W
					R613	1-216-821-11	METAL CHIP	1K	5% 1/10W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R614	1-216-821-11	METAL CHIP	1K	5%	1/10W	R684	1-216-835-11	METAL CHIP	15K	5%	1/10W
R615	1-216-821-11	METAL CHIP	1K	5%	1/10W	R685	1-216-837-11	METAL CHIP	22K	5%	1/10W
R616	1-216-817-11	METAL CHIP	470	5%	1/10W	R686	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R623	1-216-198-11	RES-CHIP	1K	5%	1/8W	R687	1-216-833-11	METAL CHIP	10K	5%	1/10W
R624	1-216-835-11	METAL CHIP	15K	5%	1/10W	R688	1-216-835-11	METAL CHIP	15K	5%	1/10W
R625	1-216-817-11	METAL CHIP	470	5%	1/10W	R689	1-216-837-11	METAL CHIP	22K	5%	1/10W
R626	1-216-819-11	METAL CHIP	680	5%	1/10W	R691	1-216-833-11	METAL CHIP	10K	5%	1/10W
R627	1-216-821-11	METAL CHIP	1K	5%	1/10W	R692	1-216-809-11	METAL CHIP	100	5%	1/10W
R628	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R693	1-216-809-11	METAL CHIP	100	5%	1/10W
R629	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R694	1-216-809-11	METAL CHIP	100	5%	1/10W
R630	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R695	1-216-809-11	METAL CHIP	100	5%	1/10W
R631	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R696	1-216-809-11	METAL CHIP	100	5%	1/10W
R632	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R697	1-216-809-11	METAL CHIP	100	5%	1/10W
R633	1-218-867-11	METAL CHIP	6.8K	5%	1/10W	R698	1-216-809-11	METAL CHIP	100	5%	1/10W
R634	1-216-833-11	METAL CHIP	10K	5%	1/10W	R699	1-216-821-11	METAL CHIP	1K	5%	1/10W
R635	1-216-198-11	RES-CHIP	1K	5%	1/8W	R902	1-216-841-11	METAL CHIP	47K	5%	1/10W
R638	1-216-835-11	METAL CHIP	15K	5%	1/10W	R903	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R639	1-216-817-11	METAL CHIP	470	5%	1/10W	R904	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R640	1-216-819-11	METAL CHIP	680	5%	1/10W	R905	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R641	1-216-821-11	METAL CHIP	1K	5%	1/10W	R906	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R642	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R907	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R643	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R908	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R644	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R909	1-216-837-11	METAL CHIP	22K	5%	1/10W
R645	1-216-198-11	RES-CHIP	1K	5%	1/8W	R910	1-216-837-11	METAL CHIP	22K	5%	1/10W
R646	1-216-849-11	METAL CHIP	220K	5%	1/10W	R911	1-216-837-11	METAL CHIP	22K	5%	1/10W
R647	1-220-397-11	METAL	4.7M	5%	1/10W	R912	1-216-837-11	METAL CHIP	22K	5%	1/10W
R648	1-216-819-11	METAL CHIP	680	5%	1/10W	R913	1-216-837-11	METAL CHIP	22K	5%	1/10W
R649	1-216-198-11	RES-CHIP	1K	5%	1/8W	R914	1-216-837-11	METAL CHIP	22K	5%	1/10W
R651	1-216-833-11	METAL CHIP	10K	5%	1/10W	R915	1-216-833-11	METAL CHIP	10K	5%	1/10W
R652	1-216-809-11	METAL CHIP	100	5%	1/10W	R916	1-216-821-11	METAL CHIP	1K	5%	1/10W
R653	1-216-805-11	METAL CHIP	47	5%	1/10W	R917	1-216-833-11	METAL CHIP	10K	5%	1/10W
R654	1-216-833-11	METAL CHIP	10K	5%	1/10W	R918	1-216-821-11	METAL CHIP	1K	5%	1/10W
R655	1-216-841-11	METAL CHIP	47K	5%	1/10W	R919	1-216-833-11	METAL CHIP	10K	5%	1/10W
R656	1-216-841-11	METAL CHIP	47K	5%	1/10W	R920	1-216-821-11	METAL CHIP	1K	5%	1/10W
R657	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R921	1-216-841-11	METAL CHIP	47K	5%	1/10W
R658	1-216-833-11	METAL CHIP	10K	5%	1/10W	R922	1-218-717-11	METAL CHIP	11K	5%	1/10W
R659	1-216-833-11	METAL CHIP	10K	5%	1/10W	R923	1-218-717-11	METAL CHIP	11K	5%	1/10W
R662	1-216-819-11	METAL CHIP	680	5%	1/10W	R924	1-218-717-11	METAL CHIP	11K	5%	1/10W
R663	1-216-821-11	METAL CHIP	1K	5%	1/10W	R925	1-218-717-11	METAL CHIP	11K	5%	1/10W
R664	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R926	1-216-837-11	METAL CHIP	22K	5%	1/10W
R665	1-216-809-11	METAL CHIP	100	5%	1/10W	R927	1-216-837-11	METAL CHIP	22K	5%	1/10W
R666	1-216-841-11	METAL CHIP	47K	5%	1/10W	R931	1-216-182-00	RES-CHIP	220	5%	1/8W
R667	1-216-813-11	METAL CHIP	220	5%	1/10W	R932	1-216-182-00	RES-CHIP	220	5%	1/8W
R668	1-216-809-11	METAL CHIP	100	5%	1/10W	R933	1-216-182-00	RES-CHIP	220	5%	1/8W
R669	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R934	1-216-182-00	RES-CHIP	220	5%	1/8W
R670	1-216-845-11	METAL CHIP	100K	5%	1/10W	R937	1-216-198-11	RES-CHIP	1K	5%	1/8W
R671	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R938	1-216-198-11	RES-CHIP	1K	5%	1/8W
R672	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R939	1-216-198-11	RES-CHIP	1K	5%	1/8W
R673	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R940	1-216-198-11	RES-CHIP	1K	5%	1/8W
R675	1-216-827-11	METAL CHIP	3.3K	5%	1/10W						< VIBRATOR >
R676	1-216-821-11	METAL CHIP	1K	5%	1/10W	RES601	1-795-880-11	VIBRATOR, CERAMIC (8.64MHz)			
R677	1-216-851-11	METAL CHIP	330K	5%	1/10W						< SWITCH >
R678	1-216-841-11	METAL CHIP	47K	5%	1/10W	S601	1-762-875-21	SWITCH, KEYBOARD (II)			
R679	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	S602	1-762-875-21	SWITCH, KEYBOARD (■)			
R680	1-216-809-11	METAL CHIP	100	5%	1/10W	S603	1-762-875-21	SWITCH, KEYBOARD (▶ +)			
R681	1-216-833-11	METAL CHIP	10K	5%	1/10W	S604	1-762-875-21	SWITCH, KEYBOARD (▶▶ II)			
R682	1-218-867-11	METAL CHIP	6.8K	5%	1/10W						
R683	1-216-833-11	METAL CHIP	10K	5%	1/10W						

HCD-GX35/RG310/RG330

PANEL

POWER AMP

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
S605	1-762-875-21	SWITCH, KEYBOARD (ALBUM +)		C26	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V
S606	1-762-875-21	SWITCH, KEYBOARD (GAME MIXING) (RG310/RG330)		C30	1-162-961-11	CERAMIC CHIP	330PF 10% 50V
S607	1-762-875-21	SWITCH, KEYBOARD (ALBUM -)		C31	1-162-961-11	CERAMIC CHIP	330PF 10% 50V
S608	1-762-875-21	SWITCH, KEYBOARD (◀◀)		C33	1-128-552-51	ELECT	47uF 20% 63V
S609	1-762-875-21	SWITCH, KEYBOARD (◀◀ -)		C34	1-128-552-51	ELECT	47uF 20% 63V
S612	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)		C35	1-164-344-11	CERAMIC CHIP	0.068uF 10% 25V
S614	1-762-875-21	SWITCH, KEYBOARD (POWER)		C36	1-162-927-11	CERAMIC CHIP	100PF 5% 50V (GX35/RG310)
S615	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)		C37	1-128-552-51	ELECT	47uF 20% 63V
S616	1-762-875-21	SWITCH, KEYBOARD (>)		C40	1-162-961-11	CERAMIC CHIP	330PF 10% 50V
S617	1-762-875-21	SWITCH, KEYBOARD (DISC 1)		C41	1-128-552-51	ELECT	47uF 20% 63V
S618	1-762-875-21	SWITCH, KEYBOARD (DISC 2)		C42	1-162-945-11	CERAMIC CHIP	22PF 5% 50V
S619	1-762-875-21	SWITCH, KEYBOARD (DISC 3)		C43	1-164-315-11	CERAMIC CHIP	470PF 5% 50V
S620	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP/EX-CHANGE)		C45	1-162-961-11	CERAMIC CHIP	330PF 10% 50V
S621	1-762-875-21	SWITCH, KEYBOARD (▲)		C501	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V
S623	1-762-875-21	SWITCH, KEYBOARD (MOVIE EQ)		C502	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V
S627	1-762-875-21	SWITCH, KEYBOARD (CD)		C503	1-164-156-11	CERAMIC CHIP	0.1uF 25V
S628	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)		C504	1-164-156-11	CERAMIC CHIP	0.1uF 25V
S629	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)		C505	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
S630	1-762-875-21	SWITCH, KEYBOARD (GAME)		C506	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
S634	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)		C507	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
S636	1-762-875-21	SWITCH, KEYBOARD (EFFECT ON/OFF)		C508	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
S637	1-762-875-21	SWITCH, KEYBOARD (MUSIC EQ)		C509	1-164-733-11	CERAMIC CHIP	820PF 10% 50V
S638	1-762-875-21	SWITCH, KEYBOARD (GAME EQ)		C510	1-164-733-11	CERAMIC CHIP	820PF 10% 50V
S639	1-762-875-21	SWITCH, KEYBOARD (GROOVE)		C511	1-126-966-11	ELECT	33uF 20% 35V
		< ROTARY ENCODER >		C512	1-126-966-11	ELECT	33uF 20% 35V
VR601	1-477-194-11	ENCODER, ROTARY (12 TYPE) (VOLUME)		C513	1-126-965-11	ELECT	22uF 20% 50V
		< VIBRATOR >		C514	1-126-965-11	ELECT	22uF 20% 50V
X601	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)		C517	1-126-960-11	ELECT	1uF 20% 50V
		*****		C518	1-126-960-11	ELECT	1uF 20% 50V
		*****		C519	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
		*****		C520	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
		A-4732-781-A POWER AMP BOARD, COMPLETE (GX35)		C521	1-126-961-11	ELECT	2.2uF 20% 50V
		A-4748-552-A POWER AMP BOARD, COMPLETE (RG310)		C522	1-126-961-11	ELECT	2.2uF 20% 50V
		A-4748-609-A POWER AMP BOARD, COMPLETE (RG330:AEP,UK)		C523	1-164-156-11	CERAMIC CHIP	0.1uF 25V
		A-4748-674-A POWER AMP BOARD, COMPLETE (E2,E51,MX,AR)		C524	1-164-156-11	CERAMIC CHIP	0.1uF 25V
		*****		C525	1-164-156-11	CERAMIC CHIP	0.1uF 25V
		*****		C526	1-164-156-11	CERAMIC CHIP	0.1uF 25V
		< CAPACITOR >		C527	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C1	1-165-319-11	CERAMIC CHIP	0.1uF	C529	1-126-961-11	ELECT	2.2uF 20% 50V
C2	1-165-319-11	CERAMIC CHIP	0.1uF	C530	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C3	1-165-319-11	CERAMIC CHIP	0.1uF	C531	1-104-665-11	ELECT	100uF 20% 10V
C4	1-165-319-11	CERAMIC CHIP	0.1uF	C532	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
C5	1-165-319-11	CERAMIC CHIP	0.1uF	C533	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
C6	1-165-319-11	CERAMIC CHIP	0.1uF	C534	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C7	1-165-319-11	CERAMIC CHIP	0.1uF	C535	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C8	1-165-319-11	CERAMIC CHIP	0.1uF	C538	1-164-005-11	CERAMIC CHIP	0.47uF 25V
C9	1-135-516-11	ELECT	3300uF 20%	C540	1-126-964-11	ELECT	10uF 20% 50V
C10	1-135-516-11	ELECT	3300uF 20%	C541	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C11	1-126-955-11	ELECT	4700uF 20%	C542	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C12	1-126-955-11	ELECT	4700uF 20%	C543	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C13	1-104-665-11	ELECT	100uF 20%	C544	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C22	1-126-959-11	ELECT	0.47uF 20%				< CONNECTOR >
C23	1-126-957-11	ELECT	0.22uF 20%	CN501	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P	
C24	1-126-947-11	ELECT	47uF 20%	CN502	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P	
C25	1-162-966-11	CERAMIC CHIP	0.0022uF 10%				

POWER AMP

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark				
< DIODE >											
D2	6-500-340-01	DIODE G5SBA60L-6088		JR2	1-216-864-11	METAL CHIP 0	5% 1/10W				
D3	6-500-378-01	DIODE 1N5402GW(F20)		JR501	1-216-864-11	METAL CHIP 0	5% 1/10W				
D4	6-500-378-01	DIODE 1N5402GW(F20)		JR511	1-216-864-11	METAL CHIP 0	5% 1/10W				
D5	6-500-378-01	DIODE 1N5402GW(F20)		JR512	1-216-864-11	METAL CHIP 0	5% 1/10W				
D6	6-500-378-01	DIODE 1N5402GW(F20)		JR513	1-216-864-11	METAL CHIP 0	5% 1/10W				
D11	8-719-988-61	DIODE 1SS355TE-17		JR514	1-216-864-11	METAL CHIP 0	5% 1/10W				
D12	6-500-334-01	DIODE MC2836		JR516	1-216-864-11	METAL CHIP 0	5% 1/10W				
D13	6-500-335-01	DIODE MC2838		JR517	1-216-864-11	METAL CHIP 0	5% 1/10W				
D16	6-500-335-01	DIODE MC2838		< COIL >							
D17	6-500-334-01	DIODE MC2836		L501	1-422-009-13	COIL, AIR-CORE					
D18	6-500-335-01	DIODE MC2838		L502	1-422-009-13	COIL, AIR-CORE					
D19	6-500-334-01	DIODE MC2836		< TRANSISTOR >							
D20	6-500-335-01	DIODE MC2838		Q5	6-550-289-01	TRANSISTOR 2SA1235F					
D23	8-719-988-61	DIODE 1SS355TE-17		Q6	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D24	8-719-988-61	DIODE 1SS355TE-17		Q7	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D25	8-719-083-67	DIODE UDZS-TE17-20B		Q8	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D26	6-500-378-01	DIODE 1N5402GW(F20)		Q9	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D27	6-500-378-01	DIODE 1N5402GW(F20) (AEP,UK)		Q10	6-550-316-01	TRANSISTOR 2SB792A(RS)					
D29	8-719-988-61	DIODE 1SS355TE-17		Q11	8-729-055-91	TRANSISTOR SRA2202SF					
D30	8-719-083-52	DIODE UDZS-TE17-16B		Q12	6-550-645-01	TRANSISTOR 2SC3143K4-TB					
D31	8-719-988-61	DIODE 1SS355TE-17		Q13	6-550-316-01	TRANSISTOR 2SB792A(RS)					
D32	8-719-988-61	DIODE 1SS355TE-17		Q17	6-550-289-01	TRANSISTOR 2SA1235F					
D33	8-719-988-61	DIODE 1SS355TE-17		Q18	6-550-040-01	FET 2SK3053					
D34	8-719-988-61	DIODE 1SS355TE-17		Q19	6-550-040-01	FET 2SK3053					
D35	8-719-988-61	DIODE 1SS355TE-17		Q20	6-550-317-01	TRANSISTOR 2SD814A(RS)					
D36	8-719-988-61	DIODE 1SS355TE-17		Q21	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D37	8-719-988-61	DIODE 1SS355TE-17		Q22	6-550-316-01	TRANSISTOR 2SB792A(RS)					
D38	8-719-988-61	DIODE 1SS355TE-17		Q23	6-550-289-01	TRANSISTOR 2SA1235F					
D39	8-719-988-61	DIODE 1SS355TE-17		Q24	6-550-289-01	TRANSISTOR 2SA1235F					
D40	8-719-988-61	DIODE 1SS355TE-17		Q501	6-550-291-01	TRANSISTOR FN1016 (EXCEPT AEP,UK)					
D41	8-719-312-08	DIODE FMB-G16L (EXCEPT AEP,UK)		Q501	6-550-311-01	TRANSISTOR 2SD2642 (AEP,UK)					
D42	8-719-312-08	DIODE FMB-G16L (EXCEPT AEP,UK)		Q502	6-550-291-01	TRANSISTOR FN1016 (EXCEPT AEP,UK)					
D501	6-500-334-01	DIODE MC2836		Q502	6-550-311-01	TRANSISTOR 2SD2642 (AEP,UK)					
D502	6-500-334-01	DIODE MC2836		Q503	6-550-292-01	TRANSISTOR FP1016 (EXCEPT AEP,UK)					
D503	6-500-335-01	DIODE MC2838		Q503	6-550-309-01	TRANSISTOR 2SB1686 (AEP,UK)					
D504	6-500-335-01	DIODE MC2838		Q504	6-550-292-01	TRANSISTOR FP1016 (EXCEPT AEP,UK)					
D505	8-719-970-83	DIODE HSS82-TJ		Q504	6-550-309-01	TRANSISTOR 2SB1686 (AEP,UK)					
D506	8-719-970-83	DIODE HSS82-TJ		Q505	6-550-316-01	TRANSISTOR 2SB792A(RS)					
D507	8-719-988-61	DIODE 1SS355TE-17		Q506	6-550-316-01	TRANSISTOR 2SB792A(RS)					
D508	8-719-988-61	DIODE 1SS355TE-17		Q507	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D509	6-500-335-01	DIODE MC2838		Q508	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D510	6-500-334-01	DIODE MC2836		Q509	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D511	8-719-988-61	DIODE 1SS355TE-17		Q510	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D513	8-719-988-61	DIODE 1SS355TE-17		Q511	6-550-696-01	TRANSISTOR 2SC3249E-TP					
D514	8-719-988-61	DIODE 1SS355TE-17		Q512	6-550-696-01	TRANSISTOR 2SC3249E-TP					
D515	8-719-083-70	DIODE UDZS-TE17-27B		Q513	6-550-696-01	TRANSISTOR 2SC3249E-TP					
< EARTH TERMINAL >											
< TERMINAL BOARD >											
JK502	1-694-884-11	TERMINAL BOARD (4P) (SPEAKER)		Q515	6-550-317-01	TRANSISTOR 2SD814A(RS)					
* EP01	1-537-738-21	TERMINAL, EARTH		Q516	6-550-317-01	TRANSISTOR 2SD814A(RS)					
* EP501	1-537-738-21	TERMINAL, EARTH		Q517	6-550-316-01	TRANSISTOR 2SB792A(RS)					
* EP502	1-537-738-21	TERMINAL, EARTH		Q518	6-550-316-01	TRANSISTOR 2SB792A(RS)					
< TERMINAL BOARD >											
JK502	1-694-884-11	TERMINAL BOARD (4P) (SPEAKER)		Q519	6-550-316-01	TRANSISTOR 2SB792A(RS)					
< JUMPER RESISTOR >											
Q520	6-550-316-01	TRANSISTOR 2SB792A(RS)		Q521	8-729-120-28	TRANSISTOR 2SC1623-L5L6					

POWER AMP

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q522	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R58	1-216-186-00	RES-CHIP	330 5% 1/8W
Q523	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R59	1-216-184-00	RES-CHIP	270 5% 1/8W
Q524	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R60	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
Q525	8-729-052-79	TRANSISTOR	2SD1306NETL	R61	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
Q526	8-729-052-79	TRANSISTOR	2SD1306NETL	R62	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q527	6-550-289-01	TRANSISTOR	2SA1235F	R63	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q529	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R64	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
Q530	6-550-289-01	TRANSISTOR	2SA1235F	R65	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q534	6-550-296-01	TRANSISTOR	2SA1980G	R66	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q535	6-550-296-01	TRANSISTOR	2SA1980G	R67	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q536	6-550-289-01	TRANSISTOR	2SA1235F	R68	1-216-833-11	METAL CHIP	10K 5% 1/10W
		< RESISTOR >		R69	1-216-833-11	METAL CHIP	10K 5% 1/10W
R70	1-216-835-11	METAL CHIP	15K	R70	1-216-835-11	METAL CHIP	15K 5% 1/10W
R71	1-216-835-11	METAL CHIP	15K	R71	1-216-835-11	METAL CHIP	15K 5% 1/10W
R72	1-216-829-11	METAL CHIP	4.7K	R72	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R6	1-216-838-11	METAL CHIP	27K	R73	1-216-236-11	RES-CHIP	39K 5% 1/8W
R7	1-216-838-11	METAL CHIP	27K	R74	1-216-238-11	RES-CHIP	47K 5% 1/8W
R8	1-216-838-11	METAL CHIP	27K	R75	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R9	1-216-839-11	METAL CHIP	33K	R76	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R12	1-216-830-11	METAL CHIP	5.6K	R77	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R13	1-216-206-00	RES-CHIP	2.2K	R78	1-216-234-00	RES-CHIP	33K 5% 1/8W
R14	1-216-830-11	METAL CHIP	5.6K	R79	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R16	1-216-821-11	METAL CHIP	1K	R81	1-260-111-11	CARBON	10K 5% 1/2W F
R17	1-216-821-11	METAL CHIP	1K	R82	1-216-833-11	METAL CHIP	10K 5% 1/10W
R18	1-216-809-11	METAL CHIP	100	R83	1-216-208-00	RES-CHIP	2.7K 5% 1/8W
R19	1-216-835-11	METAL CHIP	15K	R85	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R20	1-216-833-11	METAL CHIP	10K	R86	1-247-843-11	CARBON	3.3K 5% 1/4W
R21	1-216-835-11	METAL CHIP	15K	R90	1-216-222-00	RES-CHIP	10K 5% 1/8W
R22	1-216-839-11	METAL CHIP	33K	R91	1-216-178-00	RES-CHIP	150 5% 1/8W
R23	1-216-839-11	METAL CHIP	33K	R92	1-247-843-11	CARBON	3.3K 5% 1/4W
R26	1-216-827-11	METAL CHIP	3.3K	R93	1-216-206-00	RES-CHIP	2.2K 5% 1/8W
R27	1-216-833-11	METAL CHIP	10K	R94	1-216-833-11	METAL CHIP	10K 5% 1/10W
R29	1-216-138-00	METAL CHIP	3.3	R95	1-260-111-11	CARBON	10K 5% 1/2W F
R31	1-216-138-00	METAL CHIP	3.3	R96	1-216-214-00	RES-CHIP	4.7K 5% 1/8W
R32	1-216-840-11	METAL CHIP	39K	R97	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R33	1-216-839-11	METAL CHIP	33K	R98	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R34	1-216-843-11	METAL CHIP	68K	R99	1-247-843-11	CARBON	3.3K 5% 1/4W
R35	1-216-840-11	METAL CHIP	39K	R100	1-216-138-00	METAL CHIP	3.3 5% 1/8W
R36	1-216-839-11	METAL CHIP	33K	R102	1-216-216-00	RES-CHIP	5.6K 5% 1/8W
R37	1-216-843-11	METAL CHIP	68K	R103	1-216-244-00	RES-CHIP	82K 5% 1/8W
R38	1-216-833-11	METAL CHIP	10K	R104	1-216-244-00	RES-CHIP	82K 5% 1/8W
R39	1-216-845-11	METAL CHIP	100K	R105	1-216-244-00	RES-CHIP	82K 5% 1/8W
R40	1-216-833-11	METAL CHIP	10K	R106	1-216-244-00	RES-CHIP	82K 5% 1/8W
R41	1-216-827-11	METAL CHIP	3.3K	R107	1-216-244-00	RES-CHIP	82K 5% 1/8W
R42	1-216-827-11	METAL CHIP	3.3K	R108	1-216-244-00	RES-CHIP	82K 5% 1/8W
R43	1-216-827-11	METAL CHIP	3.3K	R109	1-216-244-00	RES-CHIP	82K 5% 1/8W
R44	1-216-236-11	RES-CHIP	39K	R110	1-216-244-00	RES-CHIP	82K 5% 1/8W
R45	1-216-841-11	METAL CHIP	47K	R500	1-216-821-11	METAL CHIP	1K 5% 1/10W
R46	1-216-841-11	METAL CHIP	47K	△ R501	1-245-235-21	METAL OXIDE	0.22 10% 2W F (EXCEPT AEP,UK)
R47	1-216-837-11	METAL CHIP	22K	△ R501	1-245-545-11	METAL OXIDE	0.22 5% 3W F (AEP,UK)
R48	1-216-849-11	METAL CHIP	220K				
R49	1-216-849-11	METAL CHIP	220K				
R50	1-216-833-11	METAL CHIP	10K				
R51	1-216-823-11	METAL CHIP	1.5K				
R52	1-216-841-11	METAL CHIP	47K	△ R502	1-245-235-21	METAL OXIDE	0.22 10% 2W F (EXCEPT AEP,UK)
R53	1-216-827-11	METAL CHIP	3.3K	△ R502	1-245-545-11	METAL OXIDE	0.22 5% 3W F (AEP,UK)
R54	1-216-835-11	METAL CHIP	15K	△ R503	1-245-235-21	METAL OXIDE	0.22 10% 2W F (EXCEPT AEP,UK)
R55	1-260-330-11	CARBON	1.5K				
R56	1-249-420-11	CARBON	1.8K				

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

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

POWER AMP	REMOTE	SENSOR
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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
▲ R503	1-245-545-11	METAL OXIDE	0.22 5% 3W F (AEP,UK)	R559	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
▲ R504	1-245-235-21	METAL OXIDE	0.22 10% 2W F (EXCEPT AEP,UK)	R560	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
▲ R504	1-245-545-11	METAL OXIDE	0.22 5% 3W F (AEP,UK)	R561	1-216-843-11	METAL CHIP	68K 5% 1/10W
R505	1-216-809-11	METAL CHIP	100 5% 1/10W	R562	1-216-857-11	METAL CHIP	1M 5% 1/10W
R506	1-216-809-11	METAL CHIP	100 5% 1/10W	R563	1-216-214-00	RES-CHIP	4.7K 5% 1/8W
R507	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	R564	1-216-214-00	RES-CHIP	4.7K 5% 1/8W
R508	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	R567	1-216-214-00	RES-CHIP	4.7K 5% 1/8W
R509	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R568	1-216-214-00	RES-CHIP	4.7K 5% 1/8W
R510	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R569	1-216-853-11	METAL CHIP	470K 5% 1/10W
R511	1-216-821-11	METAL CHIP	1K 5% 1/10W	R570	1-260-076-21	CARBON	10 5% 1/2W F
R512	1-216-821-11	METAL CHIP	1K 5% 1/10W	R571	1-260-076-21	CARBON	10 5% 1/2W F
R513	1-216-835-11	METAL CHIP	15K 5% 1/10W	R572	1-216-800-11	METAL CHIP	18 5% 1/10W
R514	1-216-835-11	METAL CHIP	15K 5% 1/10W	R573	1-216-800-11	METAL CHIP	18 5% 1/10W
R515	1-216-815-11	METAL CHIP	330 5% 1/10W	R574	1-216-182-00	RES-CHIP	220 5% 1/8W
R516	1-216-815-11	METAL CHIP	330 5% 1/10W	R575	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R517	1-216-804-11	METAL CHIP	39 5% 1/10W	R576	1-216-837-11	METAL CHIP	22K 5% 1/10W
R518	1-216-804-11	METAL CHIP	39 5% 1/10W	R577	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R519	1-216-804-11	METAL CHIP	39 5% 1/10W	R578	1-216-182-00	RES-CHIP	220 5% 1/8W
R520	1-216-804-11	METAL CHIP	39 5% 1/10W	R580	1-216-150-11	RES-CHIP	10 5% 1/8W
R521	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R581	1-216-246-00	RES-CHIP	100K 5% 1/8W
R522	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R589	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R523	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R591	1-216-841-11	METAL CHIP	47K 5% 1/10W
R524	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R592	1-216-835-11	METAL CHIP	15K 5% 1/10W
R525	1-216-821-11	METAL CHIP	1K 5% 1/10W	R593	1-216-833-11	METAL CHIP	10K 5% 1/10W
R526	1-216-821-11	METAL CHIP	1K 5% 1/10W	R594	1-216-833-11	METAL CHIP	10K 5% 1/10W
R527	1-216-841-11	METAL CHIP	47K 5% 1/10W	R599	1-216-841-11	METAL CHIP	47K 5% 1/10W
R528	1-216-841-11	METAL CHIP	47K 5% 1/10W	R601	1-216-156-00	RES-CHIP	18 5% 1/8W
R529	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R602	1-216-156-00	RES-CHIP	18 5% 1/8W
R530	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R603	1-216-156-00	RES-CHIP	18 5% 1/8W
R531	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	R604	1-216-156-00	RES-CHIP	18 5% 1/8W
R532	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	< RELAY >			
R533	1-216-809-11	METAL CHIP	100 5% 1/10W	RY501 1-755-373-11 RELAY			
R534	1-216-809-11	METAL CHIP	100 5% 1/10W	< THERMISTOR >			
R535	1-216-809-11	METAL CHIP	100 5% 1/10W	TH501 1-805-217-11 THERMISTOR (1012)			
R536	1-216-809-11	METAL CHIP	100 5% 1/10W	TH502 1-805-217-11 THERMISTOR (1012)			
R537	1-260-328-11	CARBON	1K 5% 1/2W F	*****			
R538	1-260-328-11	CARBON	1K 5% 1/2W F	REMOTE BOARD			
R539	1-216-833-11	METAL CHIP	10K 5% 1/10W	*****			
R540	1-216-833-11	METAL CHIP	10K 5% 1/10W	< CONNECTOR >			
R541	1-216-206-00	RES-CHIP	2.2K 5% 1/8W	*****			
R542	1-216-206-00	RES-CHIP	2.2K 5% 1/8W	CN604 1-816-423-11 SOCKET, CONNECTOR 3P			
R543	1-216-206-00	RES-CHIP	2.2K 5% 1/8W	< IC >			
R544	1-216-206-00	RES-CHIP	2.2K 5% 1/8W	RM601 6-600-174-01 IC RPM7240-H4 (IR)			
R545	1-216-809-11	METAL CHIP	100 5% 1/10W	*****			
R546	1-216-809-11	METAL CHIP	100 5% 1/10W	1-687-132-11 SENSOR BOARD			
R547	1-216-838-11	METAL CHIP	27K 5% 1/10W	*****			
R548	1-216-838-11	METAL CHIP	27K 5% 1/10W	CN731 1-785-329-21 PIN, CONNECTOR (LIGHT ANGLE) 3P			
R549	1-216-818-11	METAL CHIP	560 5% 1/10W	< IC >			
R550	1-216-818-11	METAL CHIP	560 5% 1/10W	IC731 6-600-174-01 IC RPI-576			
R553	1-216-838-11	METAL CHIP	27K 5% 1/10W	*****			
R554	1-216-838-11	METAL CHIP	27K 5% 1/10W	The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.			
R555	1-216-841-11	METAL CHIP	47K 5% 1/10W	Les composants identifiés par une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.			
R556	1-216-841-11	METAL CHIP	47K 5% 1/10W	*****			
R557	1-216-821-11	METAL CHIP	1K 5% 1/10W	*****			
R558	1-216-821-11	METAL CHIP	1K 5% 1/10W	*****			

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HCD-GX35/RG310/RG330

SW

TRANS

VIDEO OUT

6 STREAM LED

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark				
	1-687-669-11	SW BOARD	*****		1-688-081-21	6 STREAM LED BOARD	*****				
< SWITCH >											
S751	1-786-514-11	SWITCH, LEVER (SLIDE) (OPEN/CLOSE DETECT)		JR002	1-216-864-11	METAL CHIP	0 5% 1/10W				

	1-688-088-11	TRANS BOARD (GX35)		LED601	8-719-058-04	LED SEL5223S-TP15 (STREAM 1)					
	1-688-695-11	TRANS BOARD (RG310/RG330)	*****	LED602	8-719-058-04	LED SEL5223S-TP15 (STREAM 2)					
*	1-533-213-31	HOLDER, FUSE		LED603	8-719-058-04	LED SEL5223S-TP15 (STREAM 3)					
< CAPACITOR >				LED604	8-719-058-04	LED SEL5223S-TP15 (STREAM 4)					
C901	1-164-156-11	CERAMIC CHIP	0.1uF	LED605	8-719-058-04	LED SEL5223S-TP15 (STREAM 5)					
C902	1-126-942-61	ELECT	1000uF	LED606	8-719-058-04	LED SEL5223S-TP15 (STREAM 6)					
< CONNECTOR >											
CN901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P		< RESISTOR >							
* CN902	1-764-334-11	PLUG, CONNECTOR 11P		R617	1-216-182-00	RES-CHIP	220 5% 1/8W				
< DIODE >				R618	1-216-182-00	RES-CHIP	220 5% 1/8W				
D901	8-719-988-61	DIODE 1SS355TE-17 (E2,E51,AR)		R619	1-216-182-00	RES-CHIP	220 5% 1/8W				
D902	8-719-988-61	DIODE 1SS355TE-17		R620	1-216-182-00	RES-CHIP	220 5% 1/8W				
D903	8-719-988-61	DIODE 1SS355TE-17		R621	1-216-182-00	RES-CHIP	220 5% 1/8W				
D904	8-719-988-61	DIODE 1SS355TE-17		R622	1-216-182-00	RES-CHIP	220 5% 1/8W				
D905	8-719-988-61	DIODE 1SS355TE-17		R935	1-216-182-00	RES-CHIP	220 5% 1/8W				
D906	8-719-988-61	DIODE 1SS355TE-17 (CND,AEP,UK,MX)		R936	1-216-182-00	RES-CHIP	220 5% 1/8W				
< RESISTOR >											
△ R901	1-219-237-11	SOLID	3.3M	20%	1/2W F	(CND)	*****				
< RELAY >											
△ RY901	1-755-496-11	RELAY (E2,E51,AR)									
△ RY902	1-755-276-11	RELAY, POWER (CND,AEP,UK,MX)									
< SWITCH >											
△ S901	1-786-408-11	SW, SL 1-2-3 SWS2301 (VOLTAGE SELECTOR) (E2,E51,AR)		< TRANSFORMER >							

VIDEO OUT BOARD											

< CONNECTOR >											
* CN003	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P									
< JACK >											
JK004	1-774-227-11	JACK, PIN 1P (VIDEO OUT)									

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<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
MISCELLANEOUS *****			
6	1-769-939-11	WIRE (FLAT TYPE) (11 CORE) (EXCEPT AEP,UK)	
6	1-773-003-11	WIRE (FLAT TYPE) (15 CORE) (AEP,UK)	
52	1-796-485-51	DECK, MECHANICAL	
58	1-769-914-11	WIRE (FLAT TYPE) (9 CORE)	
59	1-773-322-11	WIRE (FLAT TYPE) (31 CORE)	
60	1-827-145-11	WIRE (FLAT TYPE) (13 CORE)	
△205	1-777-071-83	CORD, POWER (AEP,UK)	
△205	1-783-532-11	CORD, POWER (CND)	
△205	1-783-941-22	CORD, POWER (AR)	
△205	1-791-901-12	CORD, POWER (E2,E51)	
△205	1-827-226-11	CORD, POWER (MX)	
252	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
317	1-471-035-11	MAGNET ASSY	
323	1-827-146-11	WIRE (FLAT TYPE) (19 CORE)	
△351	A-4735-357-A	BASE ASSY, OP (KSM-213DCP)	
353	1-823-859-11	WIRE (FLAT TYPE) (16 CORE)	
△F902	1-533-451-12	FUSE, GLASS TUBE (DIA.5) (3.15A/125V) (GX35)	
△F902	1-533-470-12	FUSE, GLASS TUBE (DIA.5) (T3.15AL/250V) (RG310/RG330)	
△F903	1-533-452-12	FUSE, GLASS TUBE (DIA.5) (4A/125V) (GX35)	
△F903	1-533-472-12	FUSE, GLASS TUBE (DIA.5) (T5AL/250V) (RG310/RG330)	
△F904	1-533-452-12	FUSE, GLASS TUBE (DIA.5) (4A/125V) (GX35)	
△F904	1-533-472-12	FUSE, GLASS TUBE (DIA.5) (T5AL/250V) (RG310/RG330)	
△F905	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (8A/125V) (GX35)	
△F905	1-576-655-12	FUSE, GLASS TUBE (DIA.5) (T8AL/250V) (RG310/RG330)	
△F906	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (8A/125V) (GX35)	
△F906	1-576-655-12	FUSE, GLASS TUBE (DIA.5) (T8AL/250V) (RG310/RG330)	
M731	1-763-072-11	FAN, DC (RG310/RG330)	
M741	A-4723-963-A	MOTOR ASSY, TABLE (TURN)	
M751	A-4736-655-A	MOTOR ASSY, LOADING (LOADING)	
RE701	1-477-680-11	ENCODER, ROTARY (DISC TRAY ADDRESS DETECT)	
△T901	1-439-805-11	TRANSFORMER, POWER (GX35)	
△T901	1-439-808-11	TRANSFORMER, POWER (RG330:AEP,UK)	
△T901	1-439-809-11	TRANSFORMER, POWER (E2,E51,AR)	
△T901	1-439-858-11	TRANSFORMER, POWER (MX)	
△T901	1-439-915-11	TRANSFORMER, POWER (RG310)	
TU901	1-693-625-11	TUNER PACK (FM/AM) (ANTENNA) (CND)	
TU901	1-693-626-11	TUNER PACK (FM/AM) (ANTENNA) (AEP,UK)	
TU901	1-693-628-11	TUNER PACK (FM/AM) (ANTENNA) (E2,E51,MX,AR)	

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REVISION HISTORY

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