

# HCD-XG60/XG500

## SERVICE MANUAL


Ver 1.0 2001.02



Photo: HCD-XG60

US Model  
Canadian Model  
AEP Model  
UK Model  
HCD-XG500  
E Model  
HCD-XG60

HCD-XG60/XG500 is the amplifier, CD player, tape deck and tuner section in LBT-XG60/XG500.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

CD Section	Model Name Using Similar Mechanism	HCD-LX6/LX50/LX70
	CD Mechanism Type	CDM37M-5BD32L
	Base Unit Name	BU-5BD32L
	Optical Pick-up Name	KSS-213DH
TAPE Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	TCM-230PWR42

### SPECIFICATIONS

#### AUDIO POWER SPECIFICATIONS: (US model only)

##### POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 6 ohm loads both channels driven, from 120-10,000 Hz; rates 140 watts per channel minimum RMS power, with no more than 10% total harmonic distortion.

##### Amplifier section

###### Canadian model:

Continuous RMS power output (reference)  
160 + 160 watts (6 ohms at 1 kHz, 10% THD)  
Total harmonic distortion less than 0.07%  
(6 ohms at 1 kHz, 70 W)

###### AEP, UK models:

DIN power output (rated) 110 + 110 watts  
(6 ohms at 1 kHz, DIN)  
Continuous RMS power output (reference)  
140 + 140 watts  
(6 ohms at 1 kHz, 10% THD)  
Music power output (reference)  
240 + 240 watts  
(6 ohms at 1 kHz, 10% THD)

###### Other models:

The following measured at AC 120/220/240V, 50 Hz  
DIN power output (rated) 150 + 150 watts  
(6 ohms at 1 kHz, DIN)  
Continuous RMS power output (reference)  
200 + 200 watts  
(6 ohms at 1 kHz, 10% THD)

Inputs  
DJ MIX\*:  
(phono jacks)

sensitivity 250 mV,  
impedance 47 kilohms

GUITAR IN:  
(phone jack)

sensitivity 75 mV,  
impedance 470 kilohms

PHONO IN:  
(phono jacks)

sensitivity 3 mV,  
impedance 47 kilohms

MIX MIC:  
(phone jack)

sensitivity 1 mV,  
impedance 10 kilohms

VIDEO IN:  
(phono jacks)

sensitivity 250 mV,  
impedance 47 kilohms

GAME IN:  
(phono jacks)

sensitivity 250 mV,  
impedance 47 kilohms

MD IN:  
(phono jack)

sensitivity 450 mV,  
impedance 47 kilohms

Outputs  
DJ MIX\*:  
(phono jacks)

sensitivity 250 mV,  
impedance 1 kilohms

PHONES:  
(stereo phone jack)

accepts headphones of 8  
ohms or more

VIDEO OUT:  
(phono jack)

voltage 250 mV  
impedance 1 kilohm

MD OUT:  
(phono jacks)

voltage 250 mV  
impedance 1 kilohm  
accepts impedance of 6 to  
16 ohms

FRONT SPEAKER:

\* US, Canadian, AEP, UK, and Mexican models  
only

##### CD player section

System

Compact disc and digital  
audio system

Laser

Semiconductor laser  
( $\lambda=780\text{nm}$ ). Emission  
duration: continuous

Wavelength

780 – 790 nm

Frequency response

2 Hz – 20 kHz ( $\pm 0.5$  dB)

Signal-to-noise ratio

More than 90 dB

Dynamic range

More than 90 dB

CD OPTICAL DIGITAL OUT

(Square optical connector jack, rear panel)

Wavelength:

660 nm

Output level

–18 dBm

– Continued on next page –

## COMPACT DISC DECK RECEIVER

9-929-577-11  
2001B0500-1  
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Sony Corporation  
Audio Entertainment Group  
General Engineering Dept.

SONY®



# HCD-XG60/XG500

## Tape player section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF)	40 – 13,000 Hz (±3 dB), using Sony TYPE I cassette 40 – 14,000 Hz (±3 dB), using Sony TYPE II cassette

## Tuner section

FM stereo, FM/AM superheterodyne tuner

### FM tuner section

Tuning range	
US, Canadian models:	87.5 – 108.0 MHz (100 kHz step)
Other models:	87.5 – 108.0 MHz (50 kHz step)
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

### AM tuner section

Tuning range	
US, Canadian, Mexican, Argentina models:	530 – 1,710 kHz (with the interval set at 10 kHz)
	531 – 1,710 kHz (with the interval set at 9 kHz)
Singapore model:	531 – 1,602 kHz (with the interval set at 9 kHz)
	530 – 1,710 kHz (with the interval set at 10 kHz)
Other models:	531 – 1,602 kHz (with the interval set at 9 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

## General

Power requirements	
US, Canadian models:	120 V AC, 60 Hz
AEP, UK models:	230 V AC, 50/60 Hz
Mexican model:	120 V AC, 50/60 Hz
Other models:	120 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector

Power consumption	
US model:	240 watts

Canadian model:	320VA
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AEP, UK models:	220 watts 0.6 watts (at the power saving mode)
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Other models:	180 watts
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Dimensions (w/h/d)	Approx. 355 x 425 x 450 mm
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Mass :	
HCD-XG500	Approx. 13.5 kg
HCD-XG60	Approx. 15.0 kg

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



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## Notes on chip component replacement

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

## Flexible Circuit Board Repairing

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

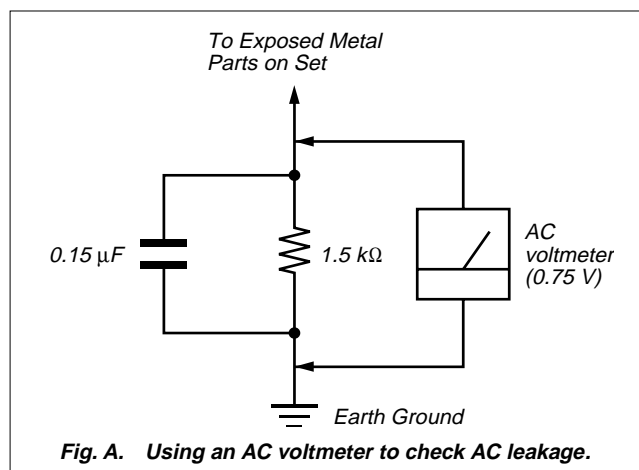
## SAFETY CHECK-OUT

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

## LEAKAGE TEST

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

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

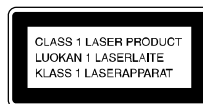


## SAFETY-RELATED COMPONENT WARNING!!

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

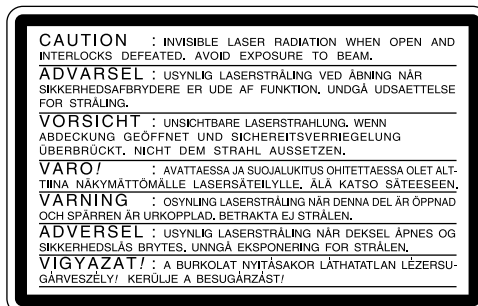
## CAUTION

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



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

The following caution label is located inside the unit.



## ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

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



## SECTION 1 SERVICING NOTES

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

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

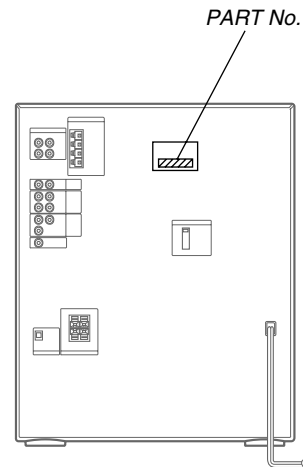
### NOTES ON LASER DIODE EMISSION CHECK

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

### LASER DIODE AND FOCUS SEARCH OPERATION CHECK

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

### • MODEL IDENTIFICATION – Rear Panel –



MODEL	PART No.
US model	4-232-087-0□
AEP and UK models	4-232-087-1□
120 V AC area in E and Argentina models	4-232-087-2□
Singapore model	4-232-087-3□
Mexican model	4-232-087-4□
Saudi Arabia model	4-232-087-5□
Canadian model	4-232-087-6□

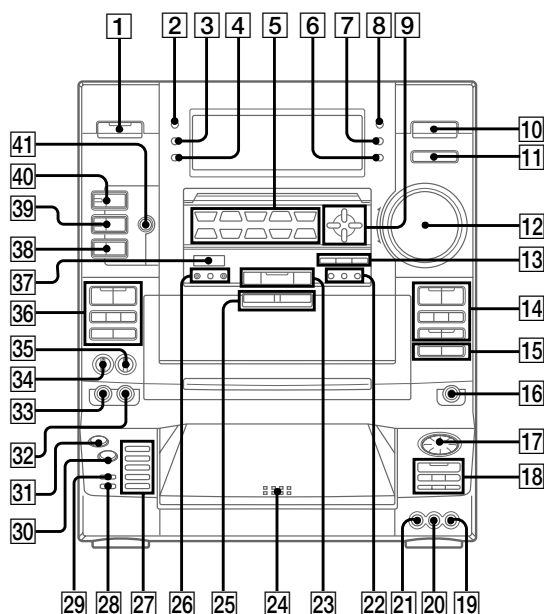


## SECTION 2 GENERAL

This section is extracted from instruction manual.

### LOCATION OF CONTROLS

– Front Panel –



CD SYNC **15** (16,17)  
DIRECT EQUALIZER **5** (18)

SALSA  
REGGAE  
SAMBA  
TANGO  
MOVIE  
GUITAR  
ROCK  
JAZZ  
DANCE  
GAME  
DIRECTION **36** (15,16,17)  
DISC SKIP **18** (9,10,17)  
DISC 1~5 **27** (9)  
DISPLAY **3** (8,11,13)  
DOLBY NR **36** (15,16)  
EDIT **29** (17)  
ENTER **26** (12,27)  
ENTER/NEXT **13** (8,14,17,19,22)  
FLAT **13** (18)  
FLASH **30** (11)  
FUNCTION **10** (7,9,10,16,17,23,24)  
GAME **11** (21)

AUDIO L **20** (23)  
AUDIO R **19** (23)  
VIDEO **21** (23)  
GROOVE **40** (18)  
GUITAR DISTORTION **26** (21)  
GUITAR jack **32** (21)  
GUITAR LEVEL **35** (21)  
H SPEED DUB **15** (16)  
Jog dial (AMSI◀◀/▶▶) **17**  
(9,10,11,17)  
LOOP **31** (7,11)  
MIC LEVEL **34** (20)  
MIX GUITAR/KARAOKE **37** (20,21)  
MIX MIC jack **33** (20)  
NON STOP **28** (10)  
P.FILE **13** (18,19)  
PLAY MODE **18** (9,10,17)  
PHONES jack **16**  
POWER SAVE/DEMO  
(STANDBY) **2** (8)  
PTY **22** (14) (AEP, UK models)  
PUSH OPEN **24** (9)  
REPEAT **18** (9)  
SPECTRUM ANALYZER **4** (20)

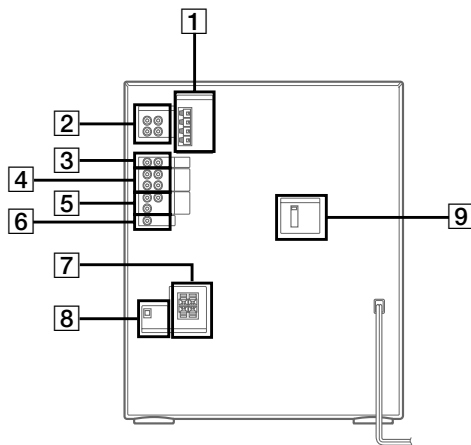
SLEEP **7** (21)  
STEREO/MONO **22** (13)  
SUPER WOOFER **39** (18)  
SUPER WOOFER MODE **38** (18)  
SURROUND **41** (16,18)  
TUNER/BAND **23** (12,13,16)  
TUNER MEMORY **26** (12)  
TIMER SELECT **8** (22)  
TUNING MODE **22** (12,13)  
VOLUME control **12** (9,13,15)

#### BUTTON DESCRIPTIONS

I/⏻ **1**  
⌚/CLOCK SET **6**  
▶/▼/◀/▶ **9**  
● REC **14**  
⏸ **14**  
◀◀/▶▶, AMSI◀◀/▶▶ **14/36**  
◀, ▶ **14/36**  
■ **14/18/36**  
▶ **18**  
+/- **23**  
A EJECT ▲/▲ B EJECT **25**

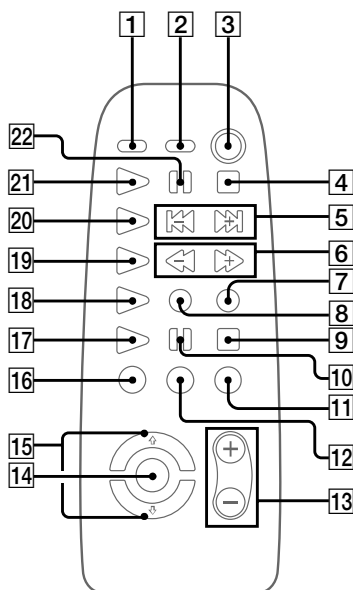


## – Rear Panel –



- 1** ANTENNA terminal
- 2** DJ MIX RETURN/SEND jack  
(US, Canadian, AEP, UK Mexican models)
- 3** PHONO IN jack
- 4** MD IN/OUT jack
- 5** VIDEO/AUDIO IN jack
- 6** VIDEO OUT jack
- 7** FRONT SPEAKER terminal
- 8** CD DIGITAL OUT OPTICAL terminal
- 9** VOLTAGE SELECTOR switch  
(120 V AC area in E, Saudi Arabia, Singapore, Argentina models)

## Remote control



## Setting the time

- 1** Turn on the system.
- 2** Press **⌚/CLOCK SET**.  
When you set the time for the first time, skip to the step 5.
- 3** Press **▲/▼** repeatedly to select **SET CLOCK**.
- 4** Press **ENTER/NEXT**.
- 5** Press **▲/▼** repeatedly to set the hour.
- 6** Press **ENTER/NEXT**.  
The minute indication flashes.
- 7** Press **▲/▼** repeatedly to set the minute.
- 8** Press **ENTER/NEXT**.  
The clock starts working.

## Tip

If you've made a mistake or want to change the time, start over from step 1.

## Note

The clock settings are canceled when you disconnect the power cord or if a power failure occurs.

AMS **⏮/⏭**, PRESET+/- **5**  
(9,13,14,15)  
CD **▶** **21** (9)  
CHECK **8** (10)  
CLEAR **7** (10)  
DECK A **▶** **19** (15)  
DECK B **▶** **18** (15)  
DISC SKIP **1** (9,10,17)  
FILE SELECT ON/OFF **14** (18)  
FILE SELECT **⏮/⏭** **15** (11)  
FLASH **12** (11)  
FUNCTION **11** (7,9,10,16,17,23,24)  
LOOP **16** (11)  
MD **▶** **17**  
MD **⏮** **10**  
MD **■** **9**  
SLEEP **2** (21)  
TUNER/BAND **20** (12,16)  
VOL +/- **13** (9,13,15)

## BUTTON DESCRIPTIONS

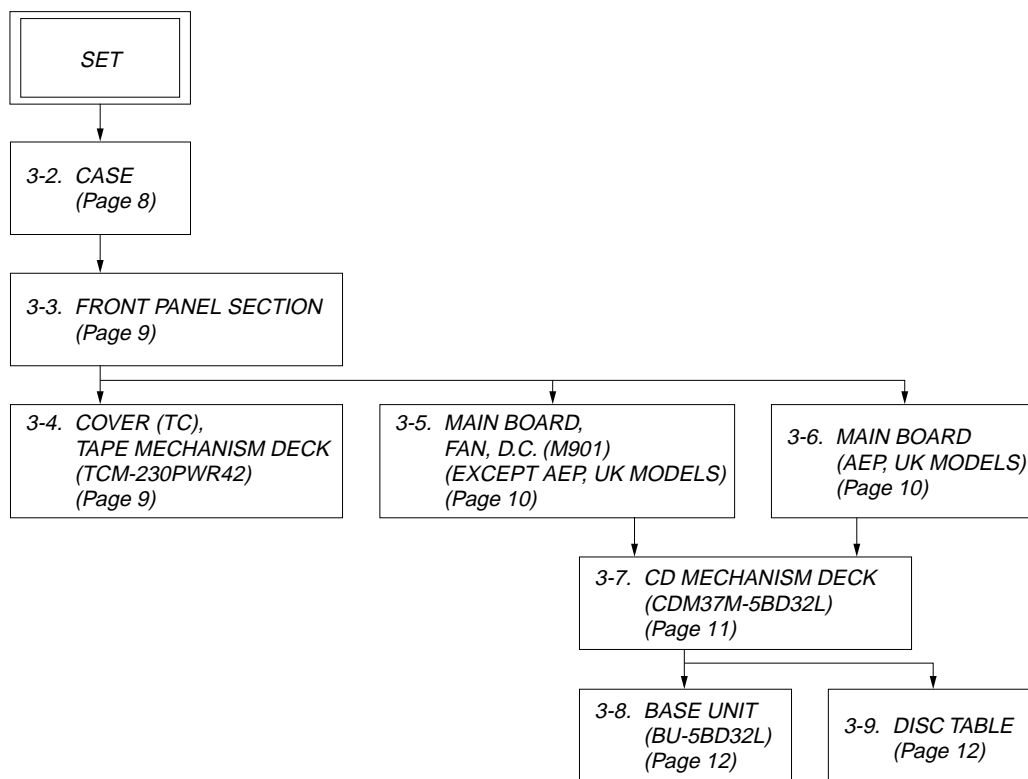
**I/⏻** **3**  
**■** **4**  
**⏮/⏭** **6**  
**⏮** **22**



## SECTION 3 DISASSEMBLY

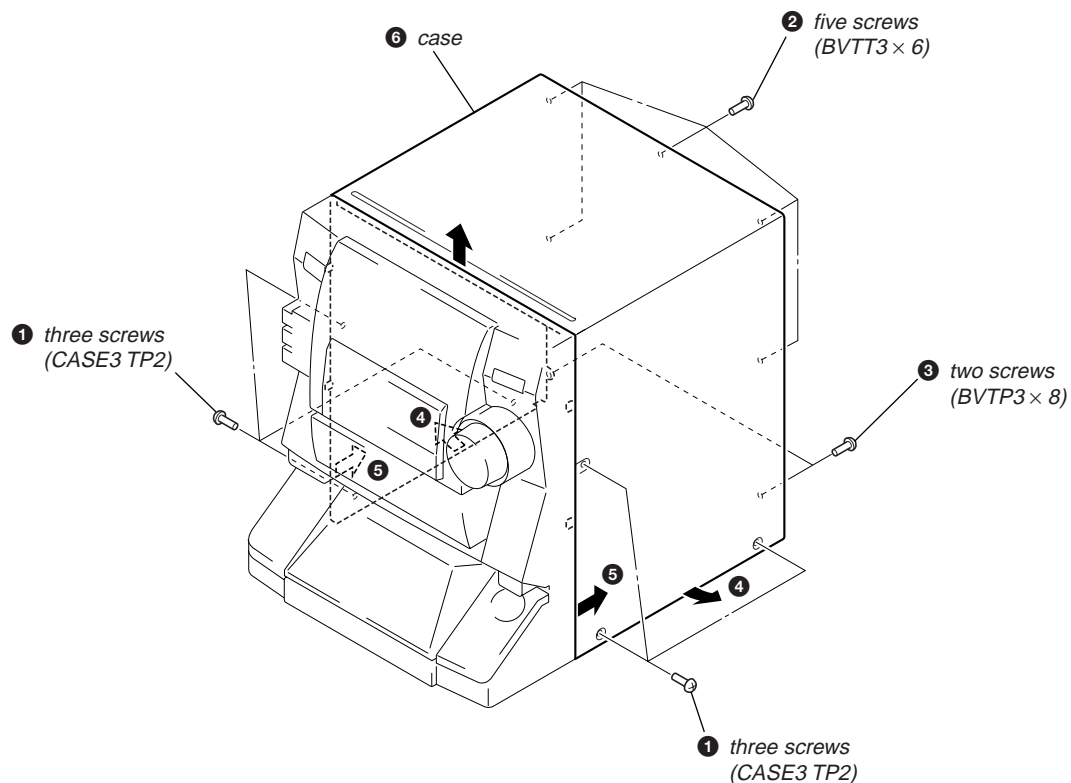
• This set can be disassembled in the order shown below.

### 3-1. DISASSEMBLY FLOW



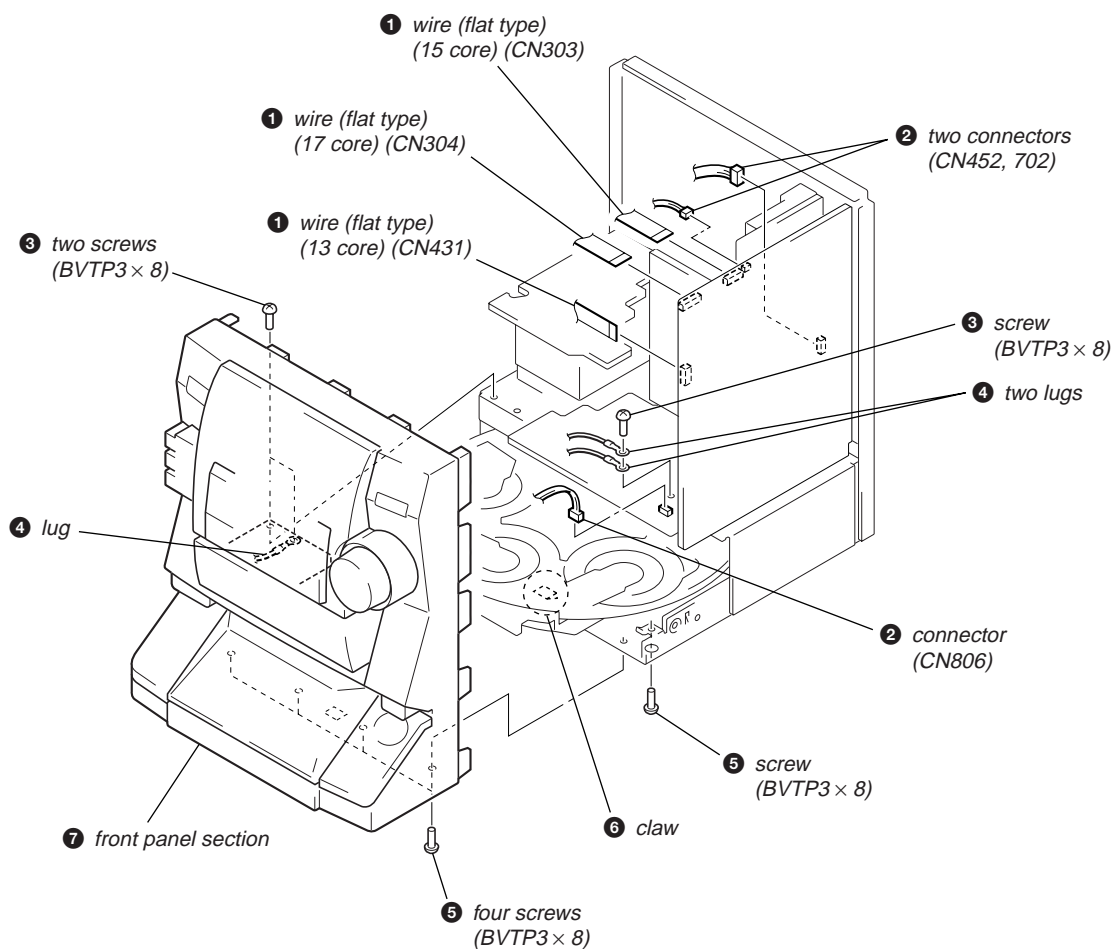
**Note:** Follow the disassembly procedure in the numerical order given.

### 3-2. CASE

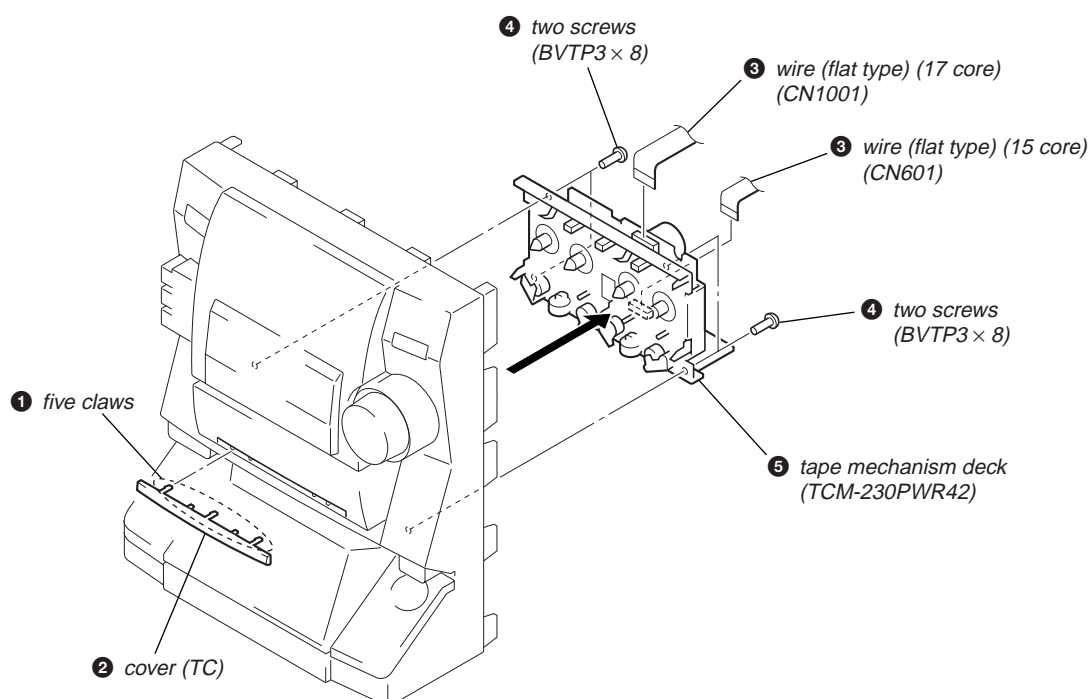




### 3-3. FRONT PANEL SECTION

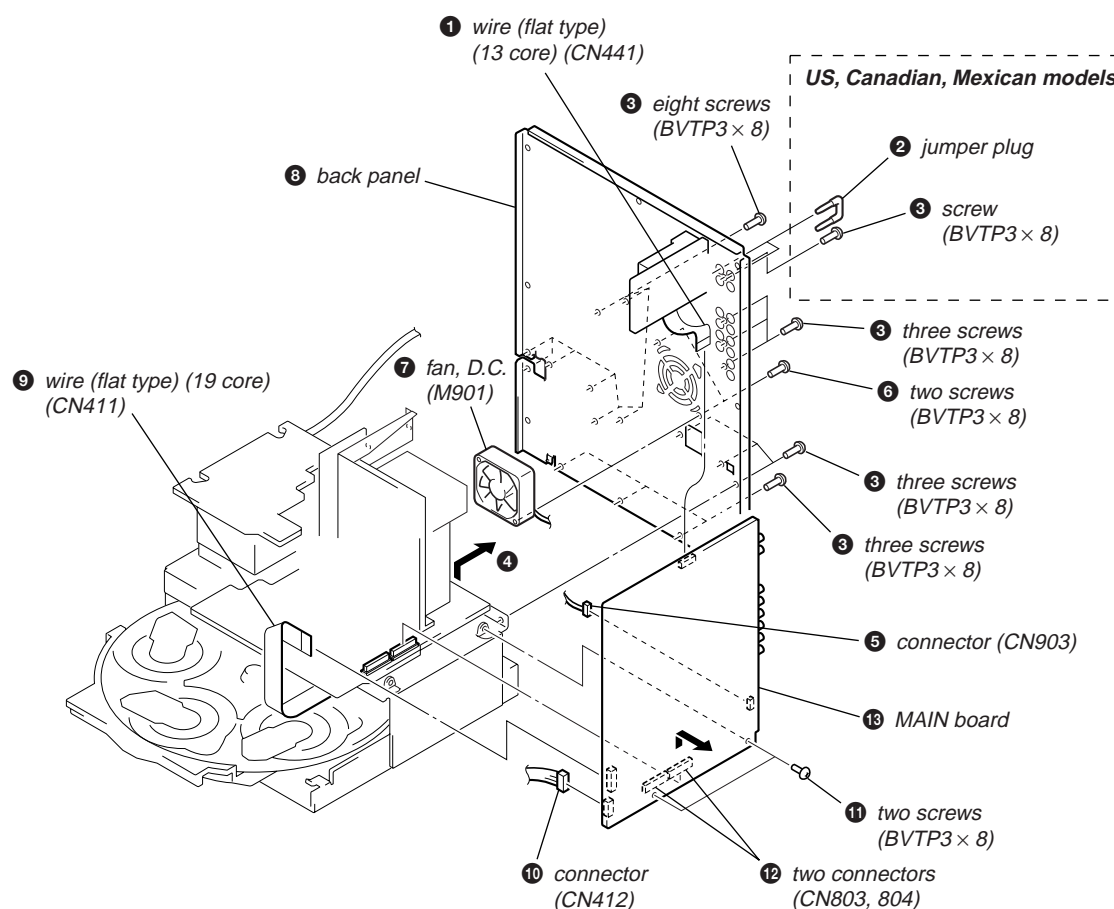


### 3-4. COVER (TC), TAPE MECHANISM DECK (TCM-230PWR42)

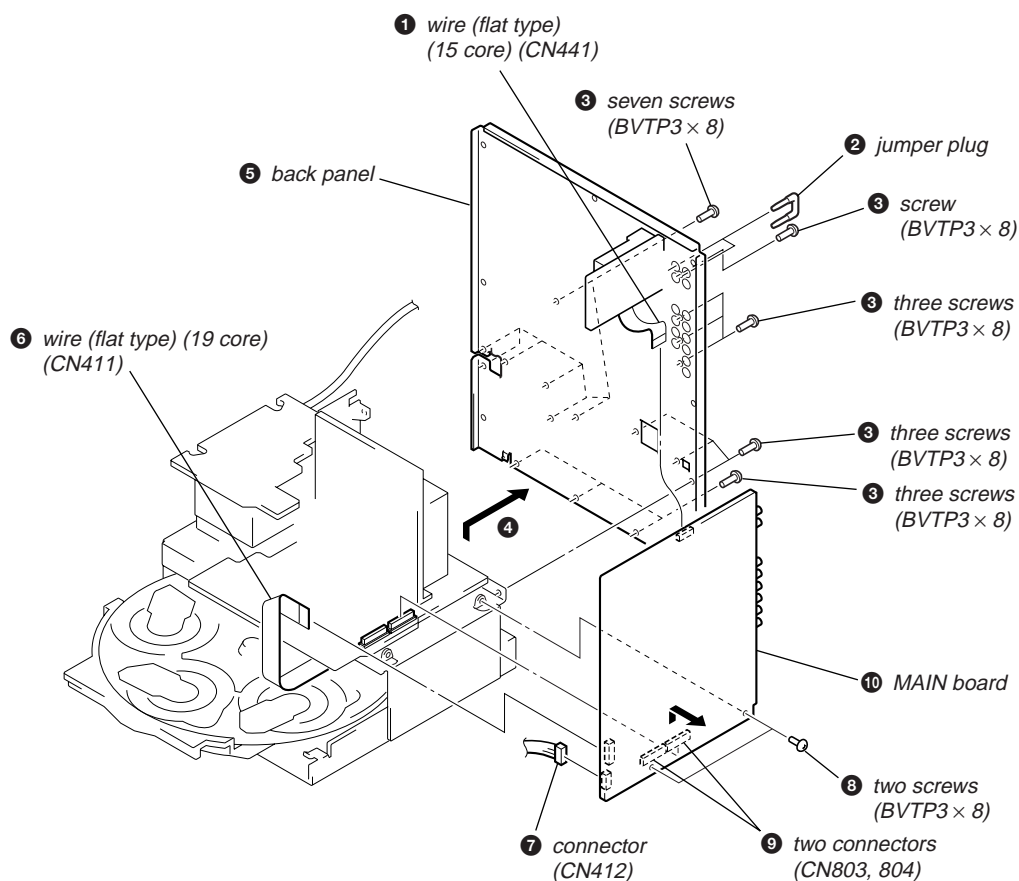




## 3-5. MAIN BOARD, FAN, D.C. (M901) (EXCEPT AEP, UK MODELS)

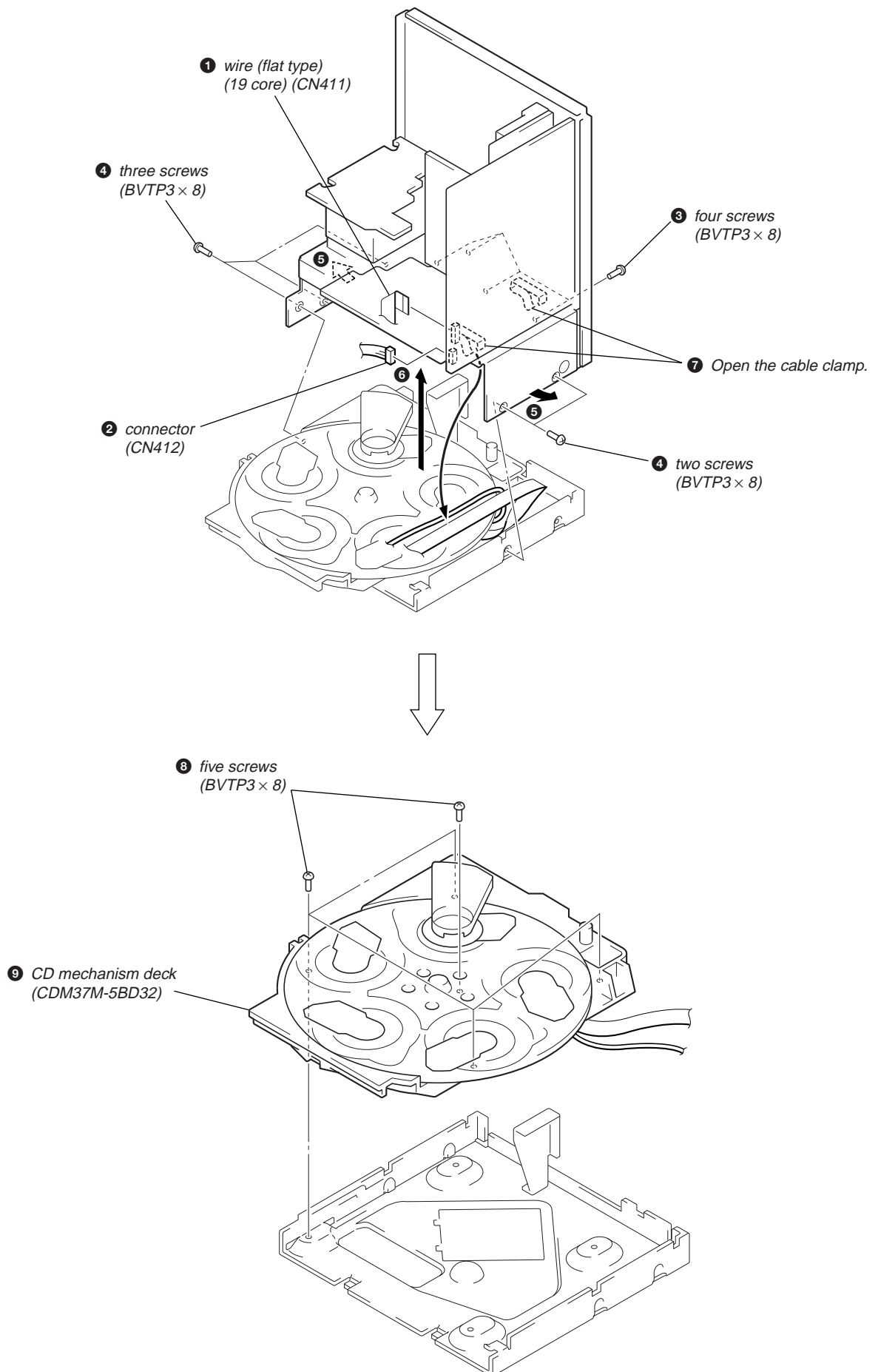


## 3-6. MAIN BOARD (AEP, UK MODELS)



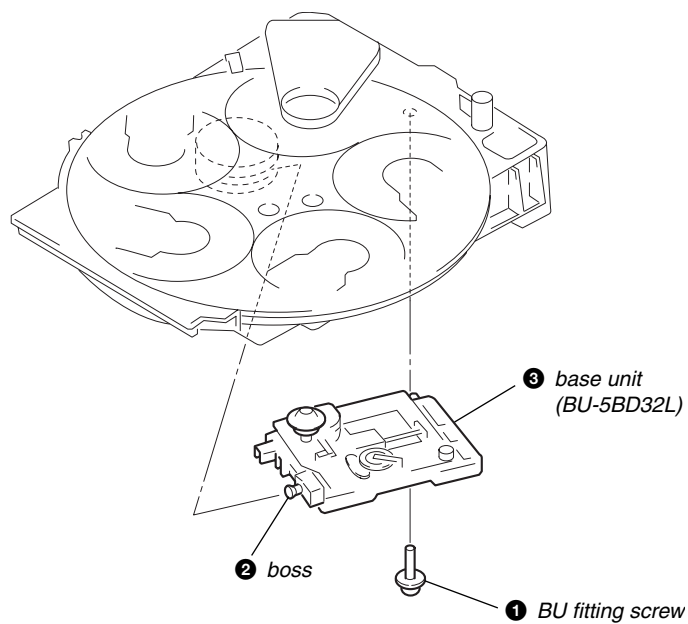


## 3-7. CD MECHANISM DECK (CDM37M-5BD32L)



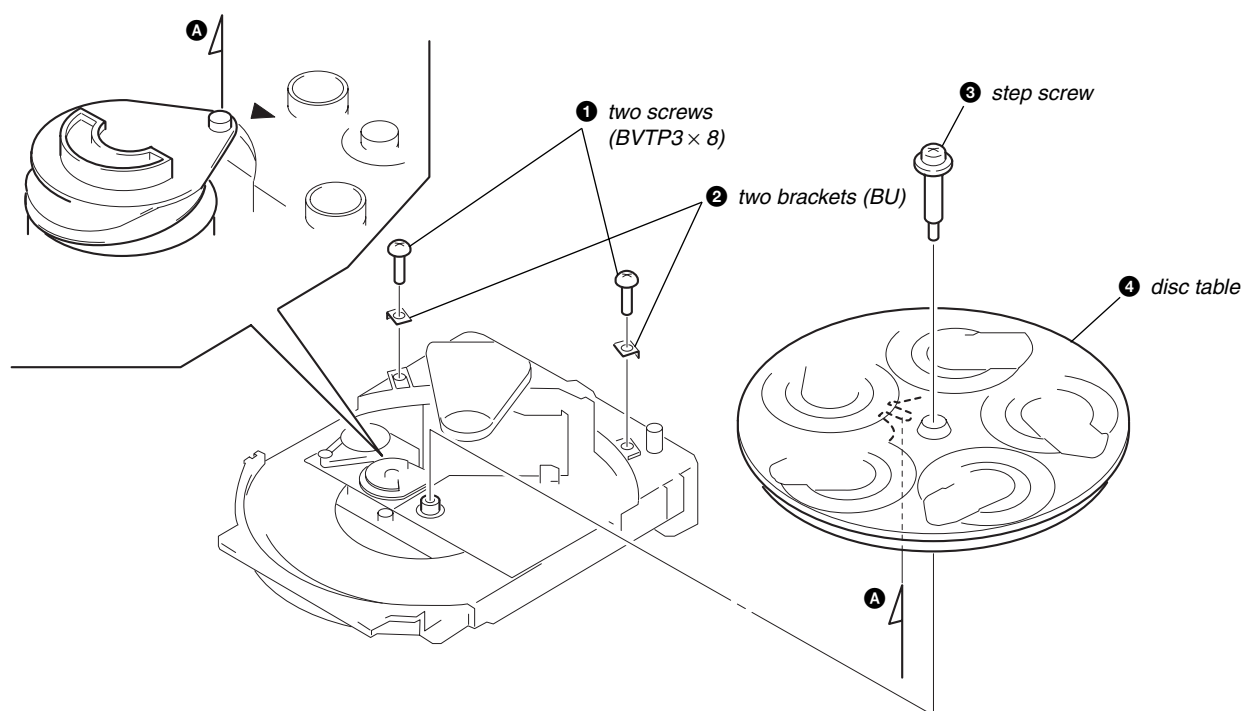


## 3-8. BASE UNIT (BU-5BD32L)



## 3-9. DISC TABLE

*Note: When the disc table is installed, adjust the positions of roller cam and mark ► as shown in the figure, then set to the groove of disc table.*





## SECTION 4

### TEST MODE

#### [MC 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. Turn the power ON or set to the DEMO mode.
2. Press three buttons of **[⏻/CLOCK SET]**, **[ENTER/NEXT]**, and **[I/⏻]** simultaneously.
3. The set is reset, and displays “COLD RESET”, then becomes DEMO mode.

#### [MC Hot Reset]

- This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

##### Procedure:

1. Turn the power ON or set to the DEMO mode.
2. Press three buttons of **[⏻/CLOCK SET]**, **[ENTER/NEXT]**, and **[DISC 1]** simultaneously.
3. The set is reset, and becomes standby state.

#### [Change-over the AM Tuning Interval] (EXCEPT AEP, UK, and Saudi Arabia models)

- The AM tuning interval can be changed over 9 kHz or 10 kHz.

##### Procedure:

1. Press the **[I/⏻]** button to turn the power ON.
2. Select the function “TUNER”, and press the **[TUNER/BAND]** button to select the BAND “AM”.
3. Press the **[I/⏻]** button to turn the power OFF.
4. Press the **[ENTER/NEXT]** and **[I/⏻]** buttons simultaneously, and the display on the fluorescent indicator tube changes to “AM 9 K STEP” or “AM 10 K STEP”, and thus the tuning interval is changed over.

#### [CD Delivery 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 **[I/⏻]** button to turn the power ON.
2. Press the **[LOOP]** and **[I/⏻]** buttons simultaneously.
3. A message “LOCK” is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

#### [LED and Fluorescent Indicator Tube All Lit, Key Check Mode]

##### Procedure:

1. Press three buttons of **[⏻/CLOCK SET]**, **[ENTER/NEXT]**, and **[DISC 2]** simultaneously.
2. LEDs and fluorescent indicator tube are all turned on. Press the **[DISC 2]** button, and the key check mode is activated.
3. In the key check mode, the fluorescent indicator tube displays “K 0 J0 V0”. Each time a button is pressed, “K” value increases. However, once a button is pressed, it is no longer taken into account.  
“J” value increases like 1, 2, 3 ... if turn the JOG dial clockwise, or it decreases like 0, 9, 8 ... if turn the JOG dial counterclockwise.  
“V” value increases like 1, 2, 3 ... if turn the **[VOLUME]** dial clockwise, or it decreases like 0, 9, 8 ... if turn the JOG dial counterclockwise.
4. To release from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.



## [Aging Mode]

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

- If an error occurred:  
The aging operation stops and display then status.
- If no error occurs:  
The aging operation continues repeatedly.

### Procedure:

1. Load the tapes into the decks A and B respectively.
2. Press the **[FUNCTION]** button to select the function "CD".
3. Press the **[PLAY MODE]** button to set the "ALL DISCS" mode, and press the **[REPEAT]** button to "REPEAT" off.
4. Press three buttons of **[⏮/CLOCK SET]**, **[ENTER/NEXT]**, and **[DISC 4]** simultaneously.
5. The aging mode is activated, if the indicator of disc tray number on the fluorescent indicator tube is blinking.
6. To release from the aging mode, press the **[I/O]** button to turn the power OFF and operate the cold reset. (Refer to the "MC Cold Reset")

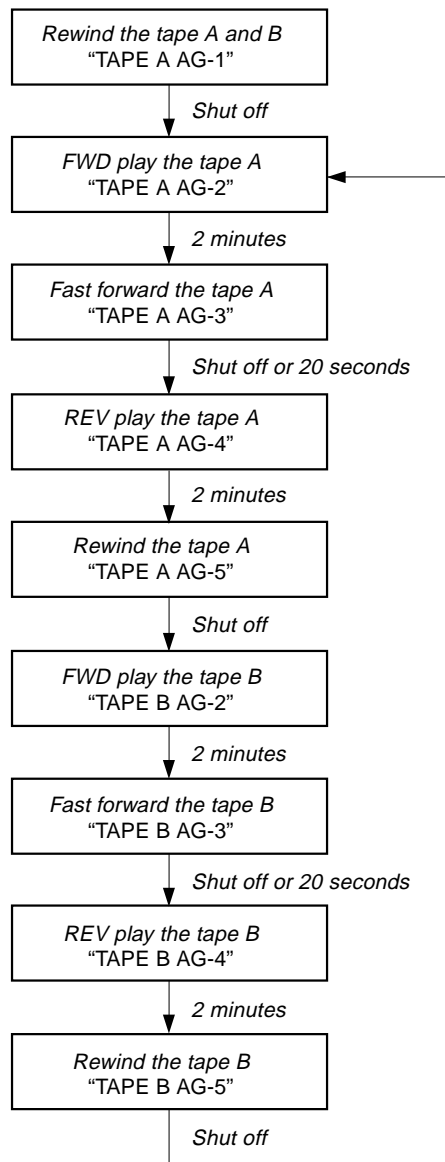
### 1. Display at the Aging Mode

- Display operating state of tape deck section alternately.
- If an error occurred, stop display.

## 2. 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:** "TAPE \* AG-\*" is display of each step.



## SECTION 5 MECHANICAL ADJUSTMENTS

### Precaution

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

### Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	3.1~6.96 mN•m (31 to 71 g•cm) (0.43 – 0.98 oz•inch)
FWD back tension	CQ-102C	0.20~0.58 mN•m (2 to 6 g•cm) (0.03 – 0.08 oz•inch)
REV	CQ-102RC	3.1~6.96 mN•m (31 to 71 g•cm) (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	0.20~0.58 mN•m (2 to 6 g•cm) (0.03 – 0.08 oz • inch)
FF/REW	CQ-201B	6.97~14.02 mN•m (71 to 143 g•cm) (0.99 – 1.99 oz • inch)
FWD tension	CQ-403A	9.80 mN•m (100 g or more) (3.53 oz or more)
REV tension	CQ-403A	9.80 mN•m (100 g or more) (3.53 oz or more)

## SECTION 6 ELECTRICAL ADJUSTMENTS

### DECK SECTION

0 dB = 0.775 V

### Precaution

- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjust.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
- The adjustments should be performed for both L-CH and R-CH.
- Switches and controls should be set as follows unless otherwise specified.
- Set to the DOLBY NR OFF.
- Set to the test mode.
  - Press the button to turn the power ON.
  - Select the function "TAPE A or B".
  - Press the button of , , and simultaneously, to set the tape deck test mode and displays "TEST MODE" on the fluorescent indicator tube.
  - To release from the test mode, press the button.

### • Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, – 10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Playback Level Adjustment



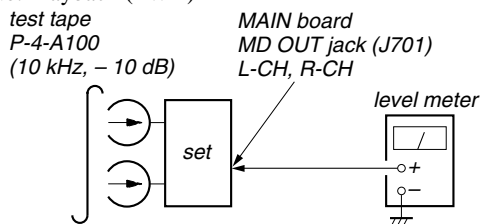
## Record/Playback Head Azimuth Adjustment

### DECK A DECK B

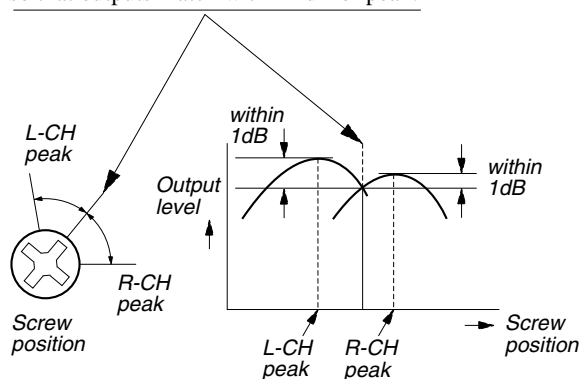
**Note:** Perform this adjustments for both decks

#### Procedure:

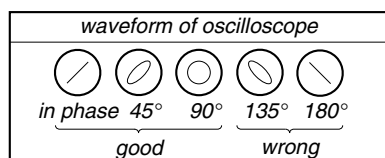
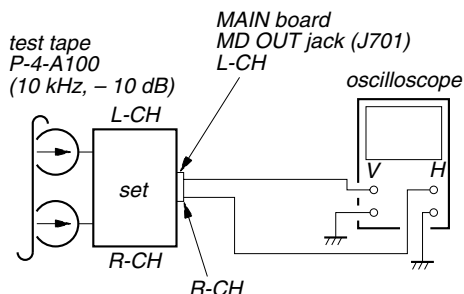
1. Mode: Playback (FWD)



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



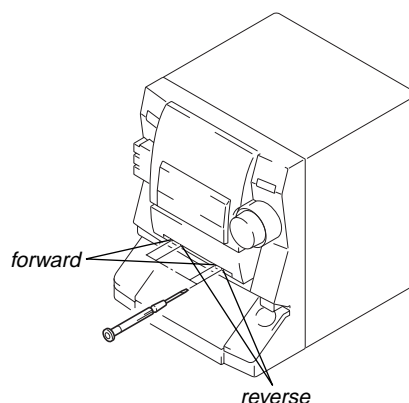
3. Mode: Playback



4. Repeat step 1 to 3 in playback (REV) mode.
5. After the adjustments, apply suitable locking compound to the parts adjusted.

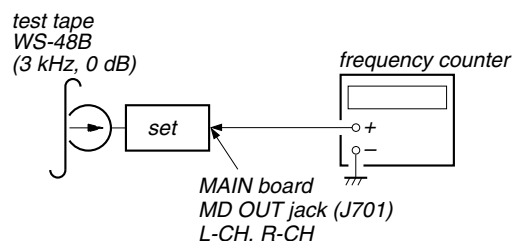
**Adjustment Location:** Playback Head (Deck A).

Record/Playback/Erase Head (Deck B).



## Tape Speed Adjustment DECK B

Mode: Playback



1. Insert the WS-48B into the deck B.
2. Press the button on the deck B.
3. Press the **[H SPEED DUB]** button in playback mode. Then at HIGH speed mode.
4. Adjust RV1001 on the LEAF SW board so that frequency counter reads  $6,000 \pm 180$  Hz.
5. Press the **[H SPEED DUB]** button. Then back to NORMAL speed mode.
6. Adjust RV1002 on the LEAF SW board so that frequency counter reads  $3,000 \pm 90$  Hz.

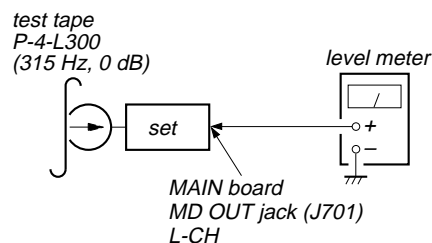
**Adjustment Location:** LEAF SW board

**Sample value of Wow and Flutter:** 0.3% or less W.RMS (JIS) (WS-48B)

## Playback Level Adjustment DECK A DECK B

#### Procedure:

Mode: Playback



Deck A is RV311 (L-CH), Deck B is RV301 (L-CH) so that adjustment within specification values as follows.

#### Specification Values:

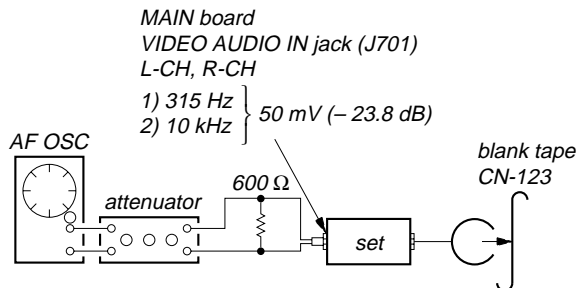
J101 PB level: 301.5 to 338.3 mV (– 8.2 to – 7.2 dB) level difference between the channels: within  $\pm 0.5$  dB

**Adjustment Location:** AUDIO board

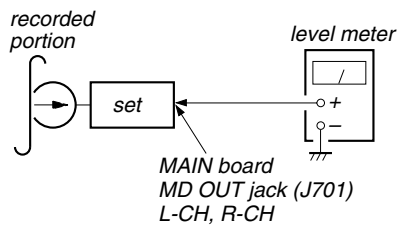


**REC Bias Adjustment** **DECK B****Procedure:**

- Mode: Record  
FUNCTION: VIDEO



- Mode: Playback



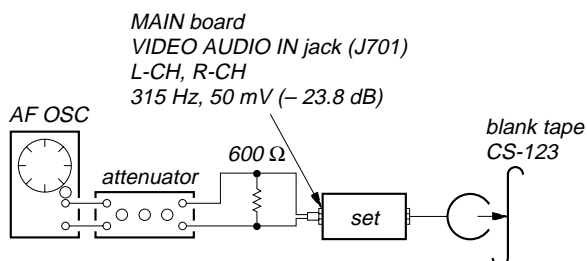
- Confirm playback the signal recorded in step 1 become specification values as follows.  
If these values are out of specification values, adjust the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 1 and 2.

**Specification values:** Playback output of 315 Hz to playback output of 10 kHz:  $\pm 0.5$  dB

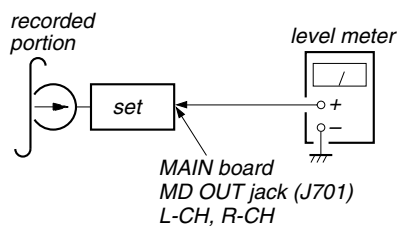
**Adjustment Location:** AUDIO board

**REC Level Adjustment** **DECK B****Procedure:**

- Mode: Record  
FUNCTION: VIDEO



- Mode: Playback

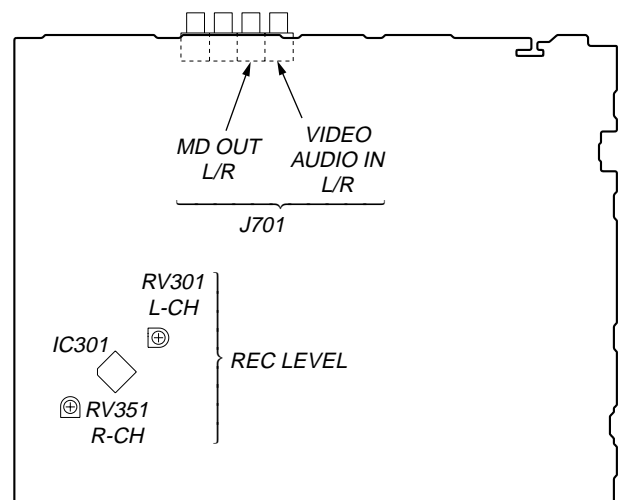
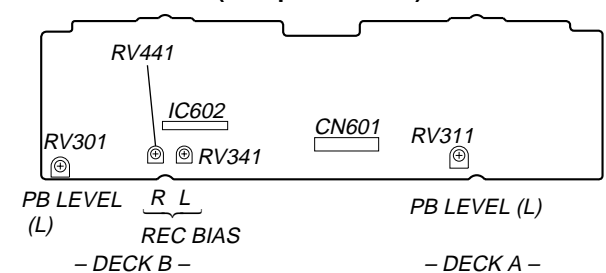
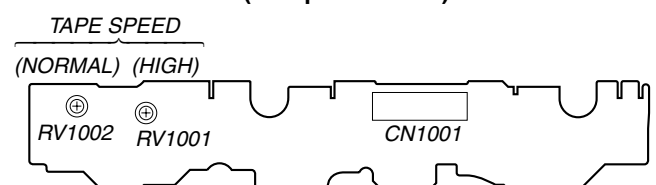


- Confirm playback the signal recorded in step 1 become specification values as follows.  
If these values are out of specification values, adjust the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 1 and 2.

**Specification values:**

J101 PB level: 47.2 to 53.0 mV ( $-24.3$  to  $-23.3$  dB)

**Adjustment Location:** MAIN board

**– MAIN BOARD (Conductor Side) –****– AUDIO BOARD (Component Side) –****– LEAF SW BOARD (Component Side) –**

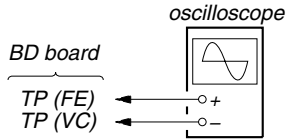


## CD SECTION

### Note:

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10 MΩ 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.

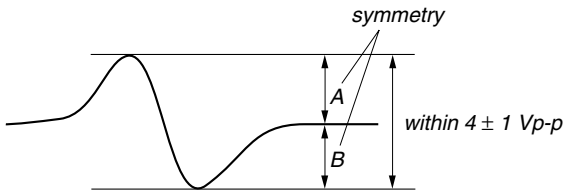
### S-Curve Check



### Procedure:

1. Connect oscilloscope to TP (FE) and TP (VC).
2. Connect between TP (FE1) and TP (VC) by lead wire.
3. Connect between TP (AGCCON) and TP (GND) by lead wire.
4. Turn the power ON.
5. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
6. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within  $4 \pm 1$  Vp-p.

### S-curve waveform

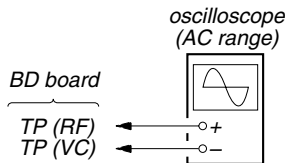


7. After check, remove the lead wire connected in step 2 and 3.

**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.

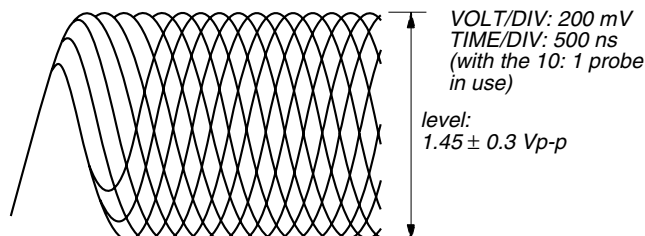
### RF Level Check



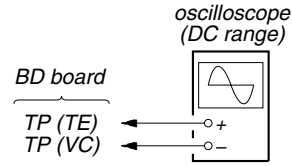
### Procedure:

1. Connect oscilloscope to TP (RF) and TP (VC).
2. Connect between TP (AGCCON) and TP (GND) by lead wire.
3. Turn the power ON.
4. Load a disc (YEDS-18) and press the button to play.
5. Confirm that the oscilloscope waveform is clear and check RF signal level is correct or not.
6. After check, remove the lead wire connected in step 2.

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



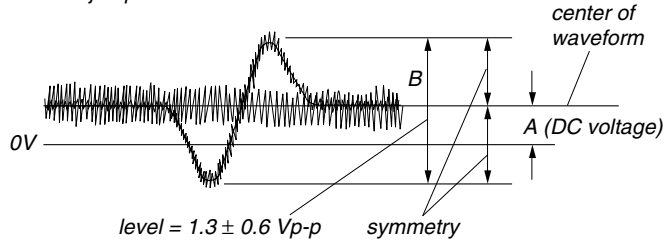
### E-F Balance (1 Track Jump) Check



### Procedure :

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

### 1 track jump waveform

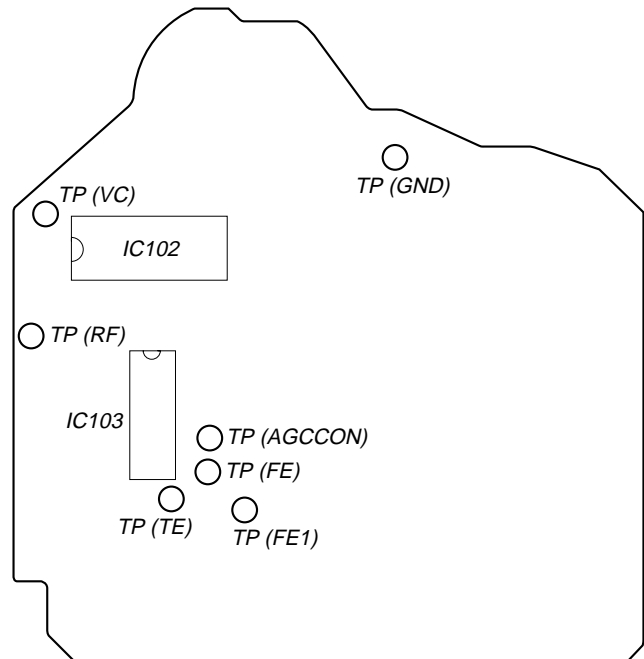


**Specified level:**  $\frac{A}{B} \times 100 = \text{less than } \pm 22\%$

6. After check, remove the lead wire connected in step 1.

### Checking Location:

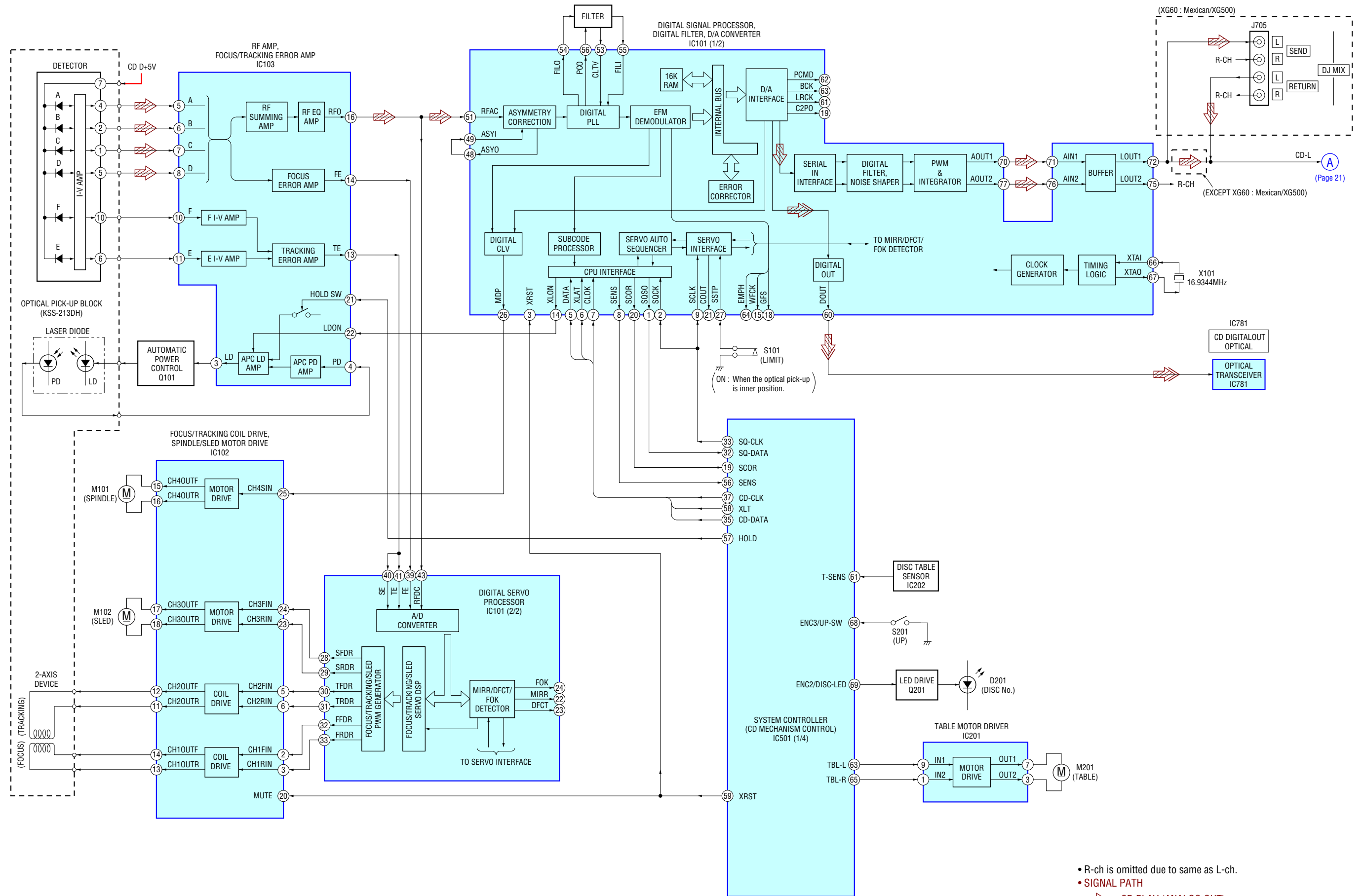
#### – BD BOARD (Side B) –





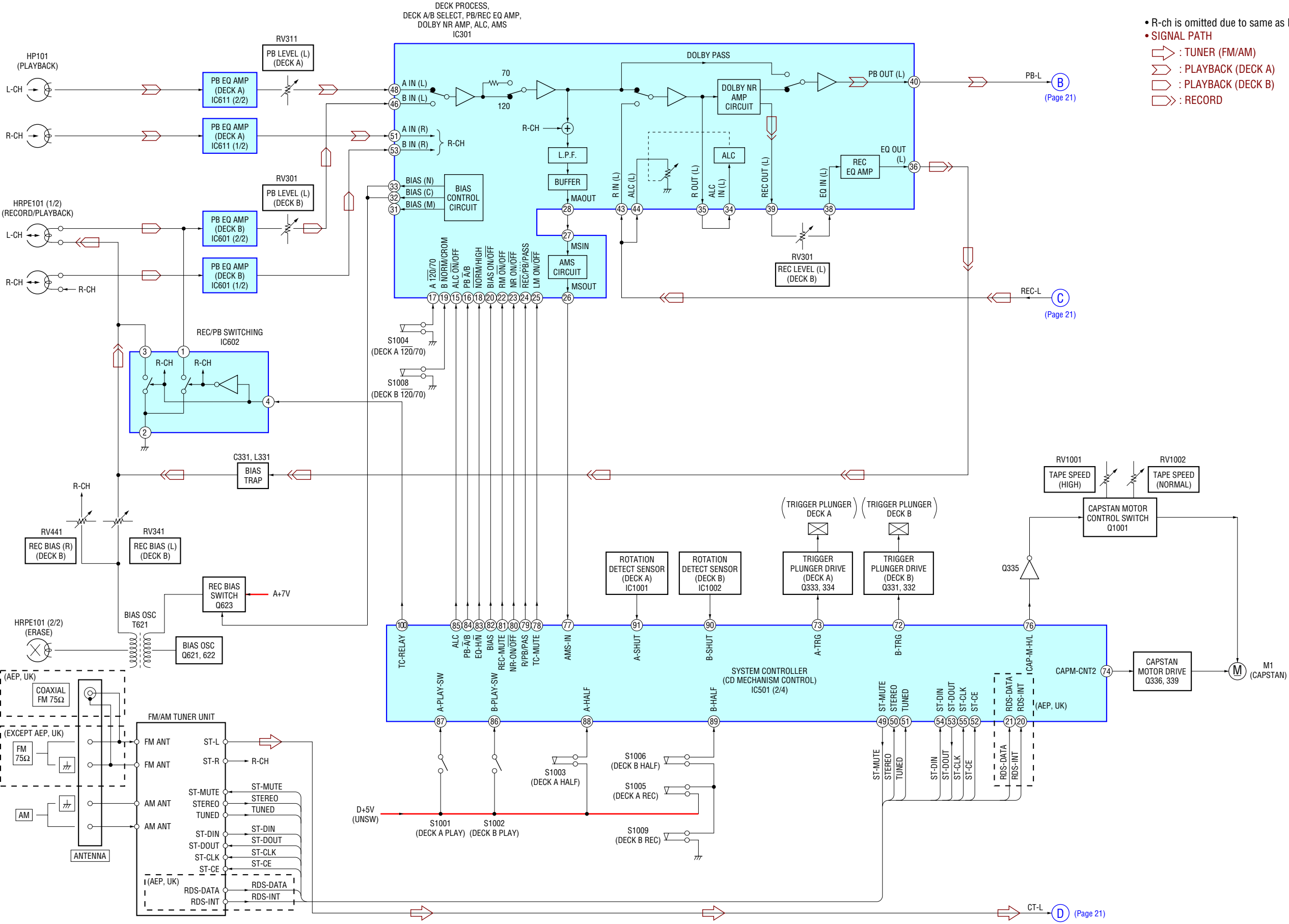
# SECTION 7 DIAGRAMS

## 7-1. BLOCK DIAGRAM – CD SERVO Section –



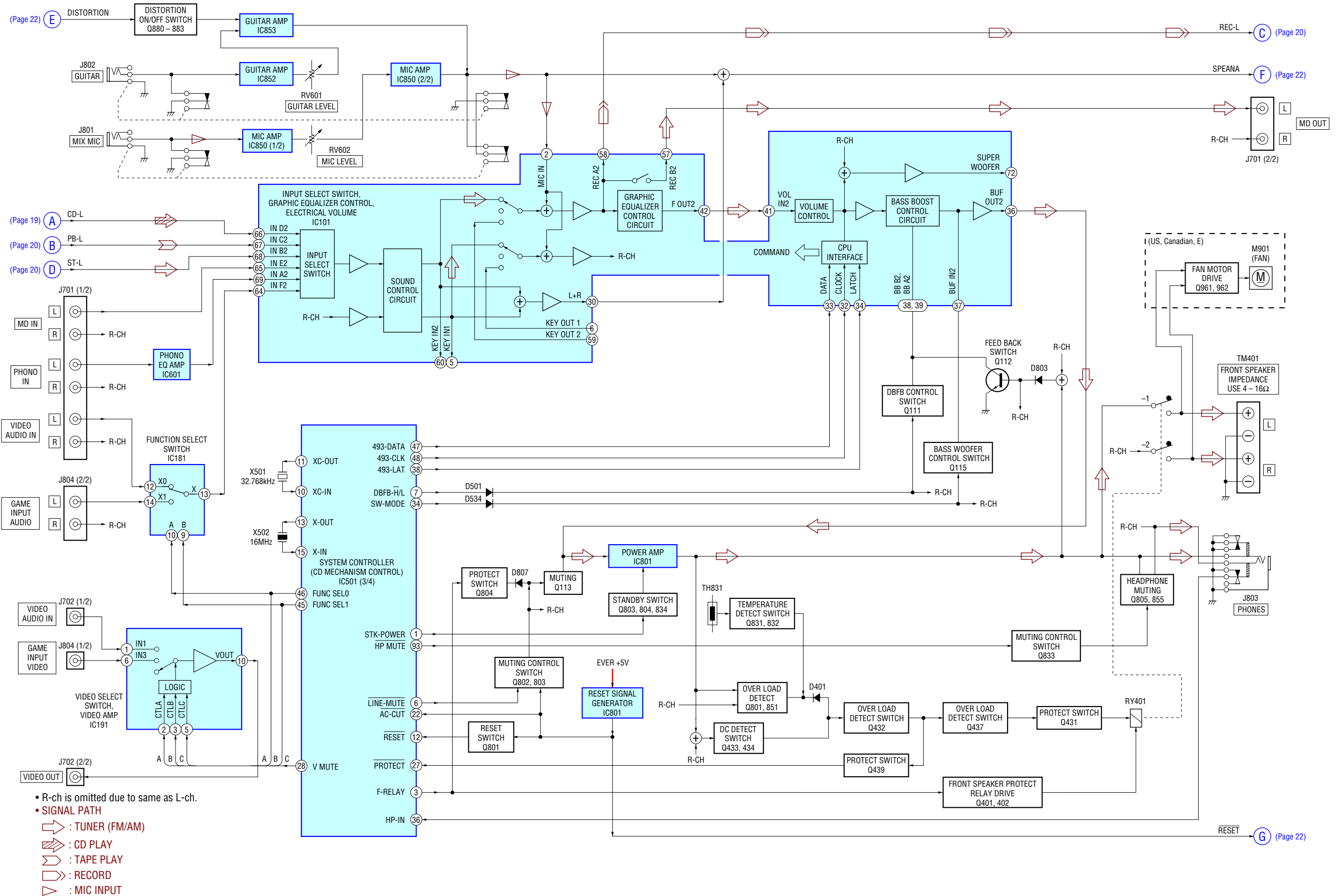


7-2. BLOCK DIAGRAM – TUNER/TAPE DECK Section –



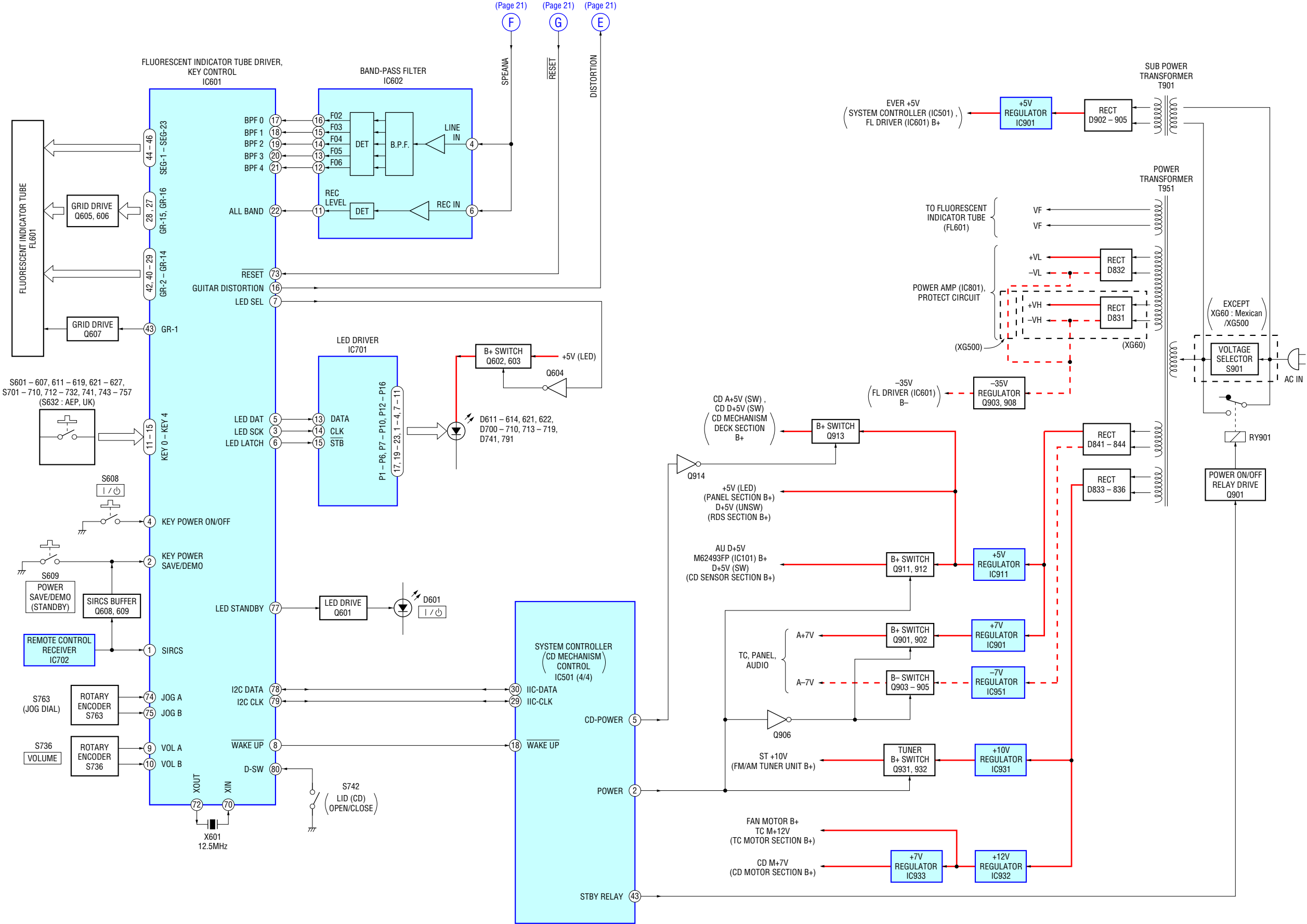


## 7-3. BLOCK DIAGRAM – MAIN Section –





7-4. BLOCK DIAGRAM – DISPLAY/KEY CONTROL/POWER SUPPLY Section –





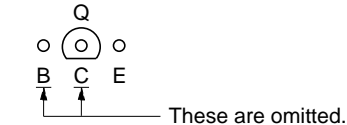
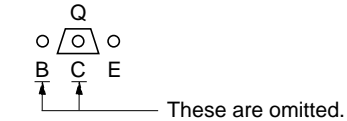
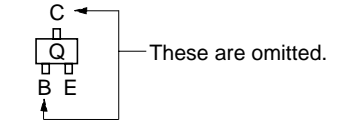
7-5. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

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 layers' patterns are not indicated.)

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

- Indication of transistor.



Note on Schematic Diagram:

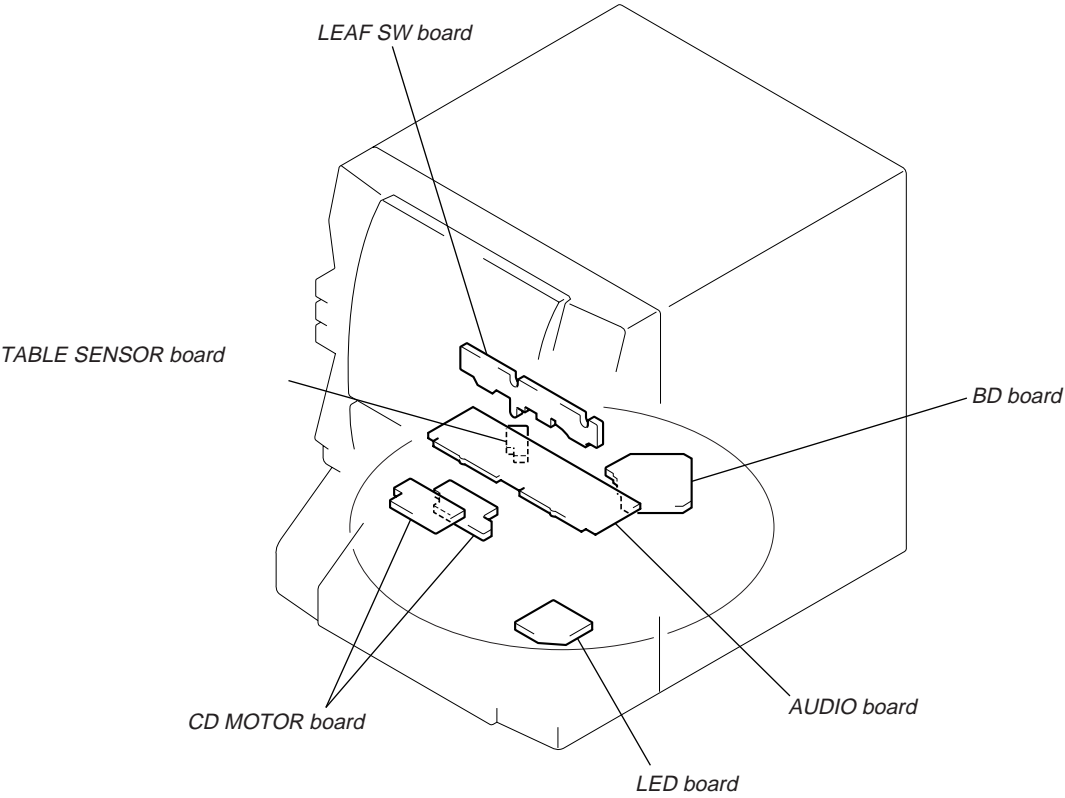
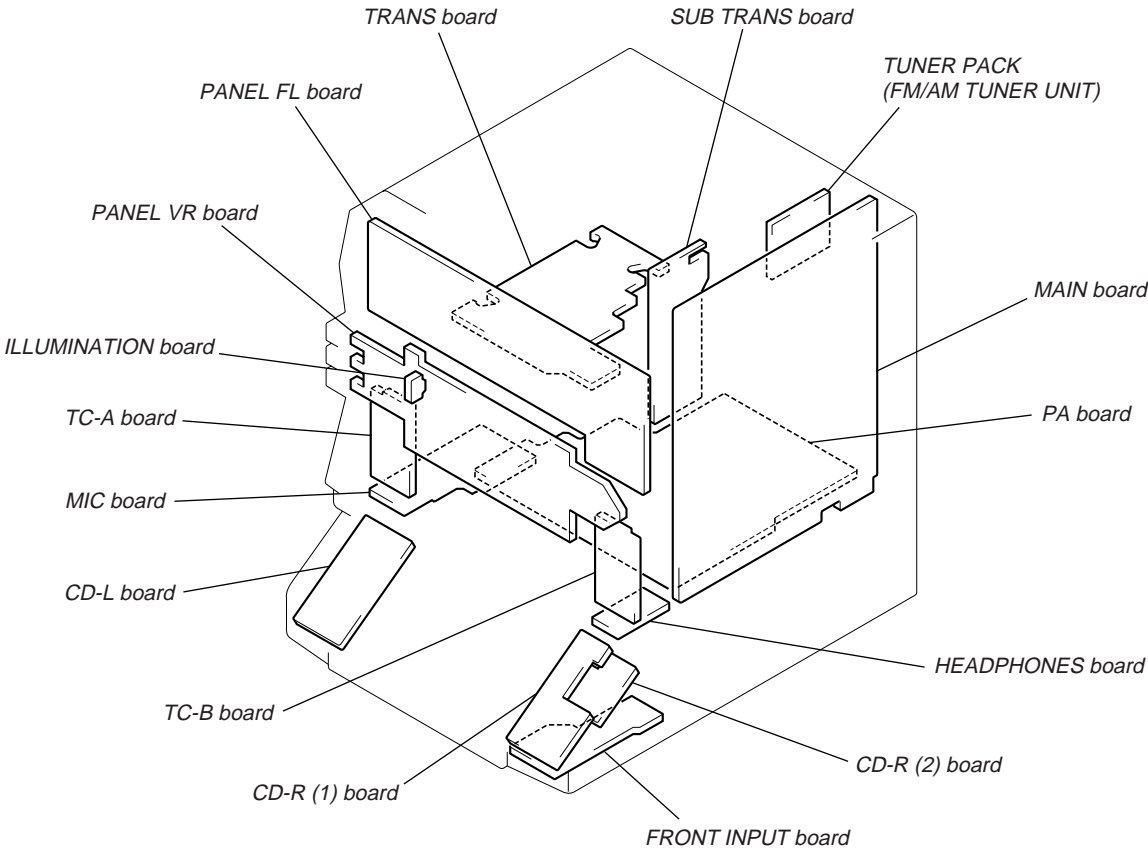
- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}\text{W}$  or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

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

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

- : B+ Line.
- - - : B- Line.
- : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10  $\text{M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ➡ : TUNER (FM/AM)
  - ➡ : TAPE PLAY (DECK A)
  - ➡ : TAPE PLAY (DECK B)
  - ➡ : RECORD
  - ➡ : CD PLAY (ANALOG OUT)
  - ➡ : CD PLAY (DEGITAL OUT)
  - ➡ : MIC INPUT
- Abbreviation
  - AR : Argentina model
  - CND : Canadian model
  - E2 : 120 V AC area in E model
  - EA : Saudi Arabia model
  - MX : Mexican model
  - SP : Singapore model

• Circuit Boards Location

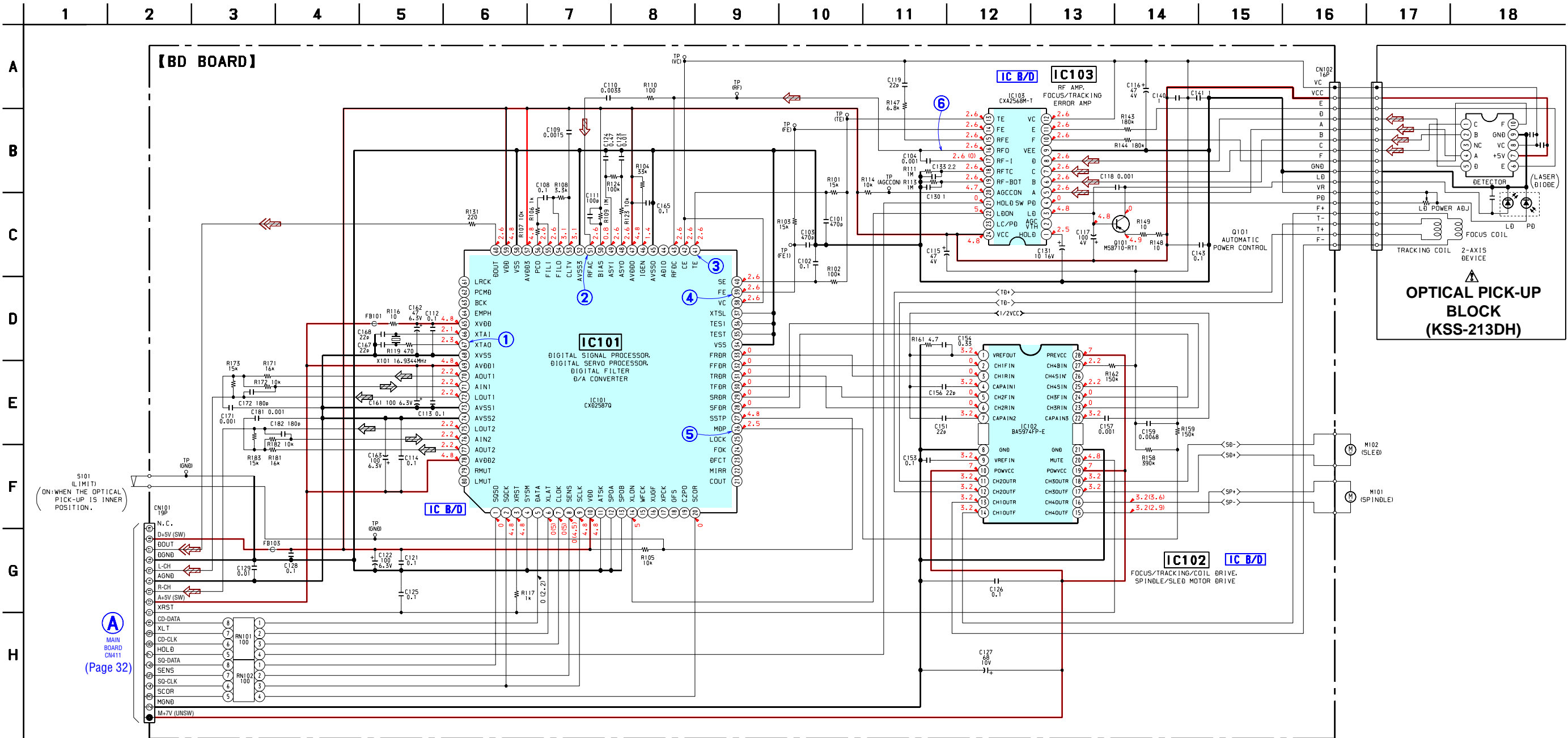




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7-7. SCHEMATIC DIAGRAM – BD Board – • See page 35 for Waveforms. • See page 47 for IC Block Diagrams.



• Voltages and waveforms are dc with respect to ground under no-signal conditions.  
no mark : CD STOP  
( ) : CD PLAY

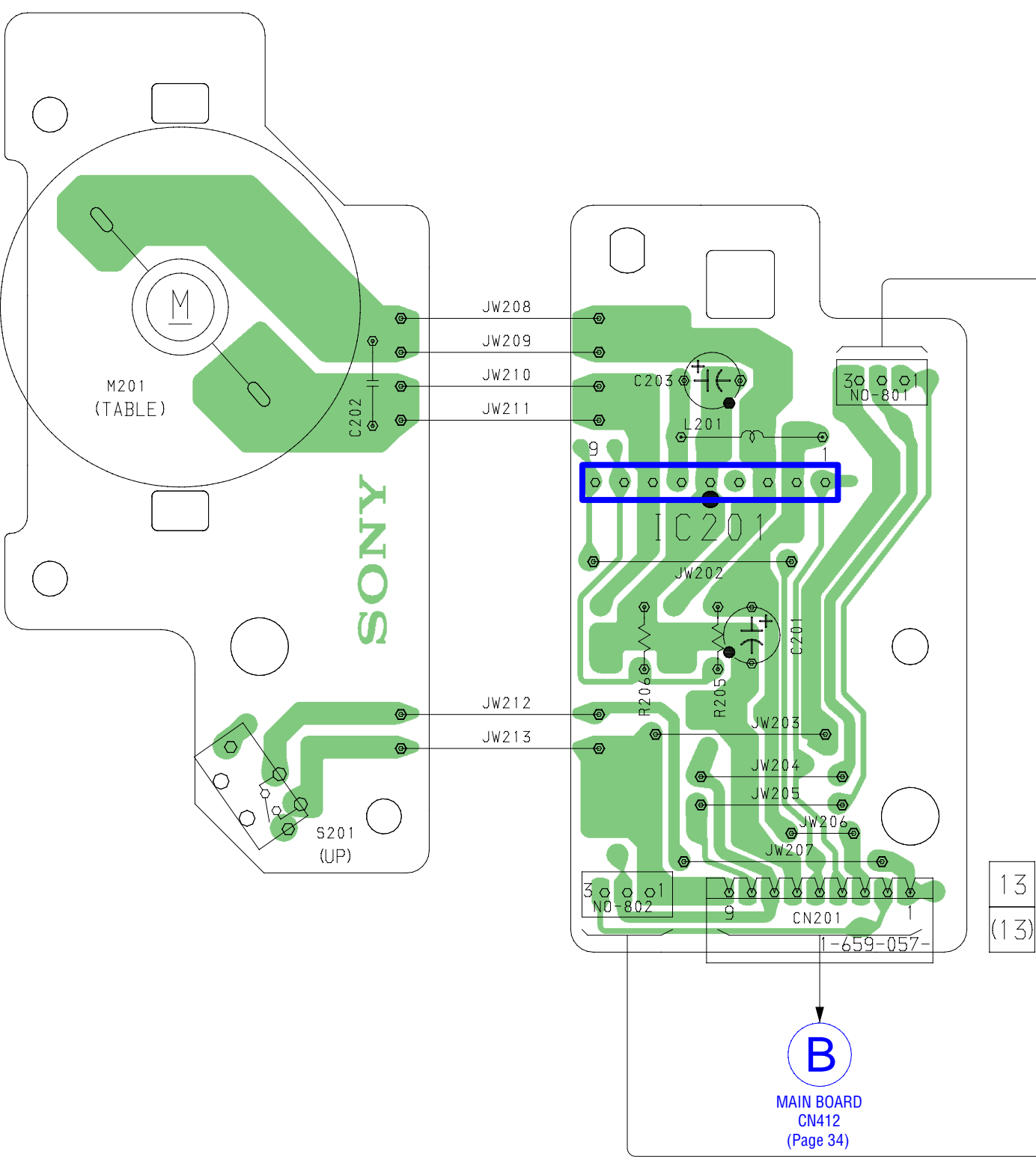
The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

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

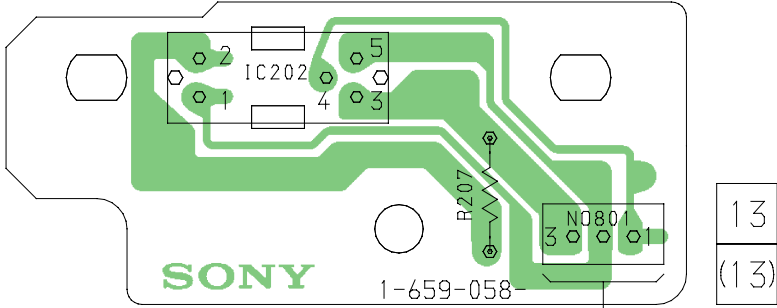


7-8. PRINTED WIRING BOARDS – CD MOTOR Section – • See page 23 for Circuit Boards Location.

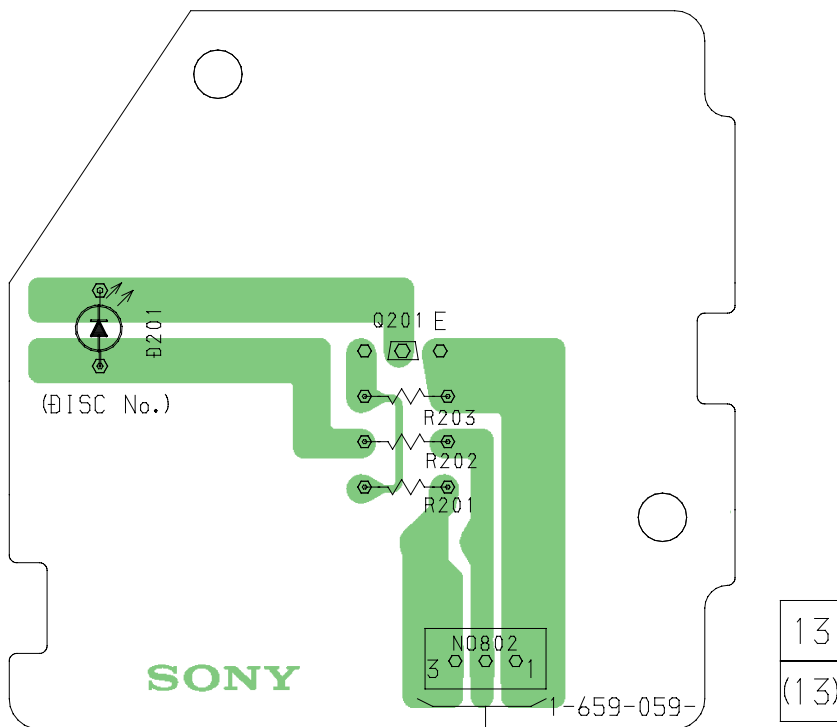
【 CD MOTOR BOARD】



【TABLE SENSOR BOARD】

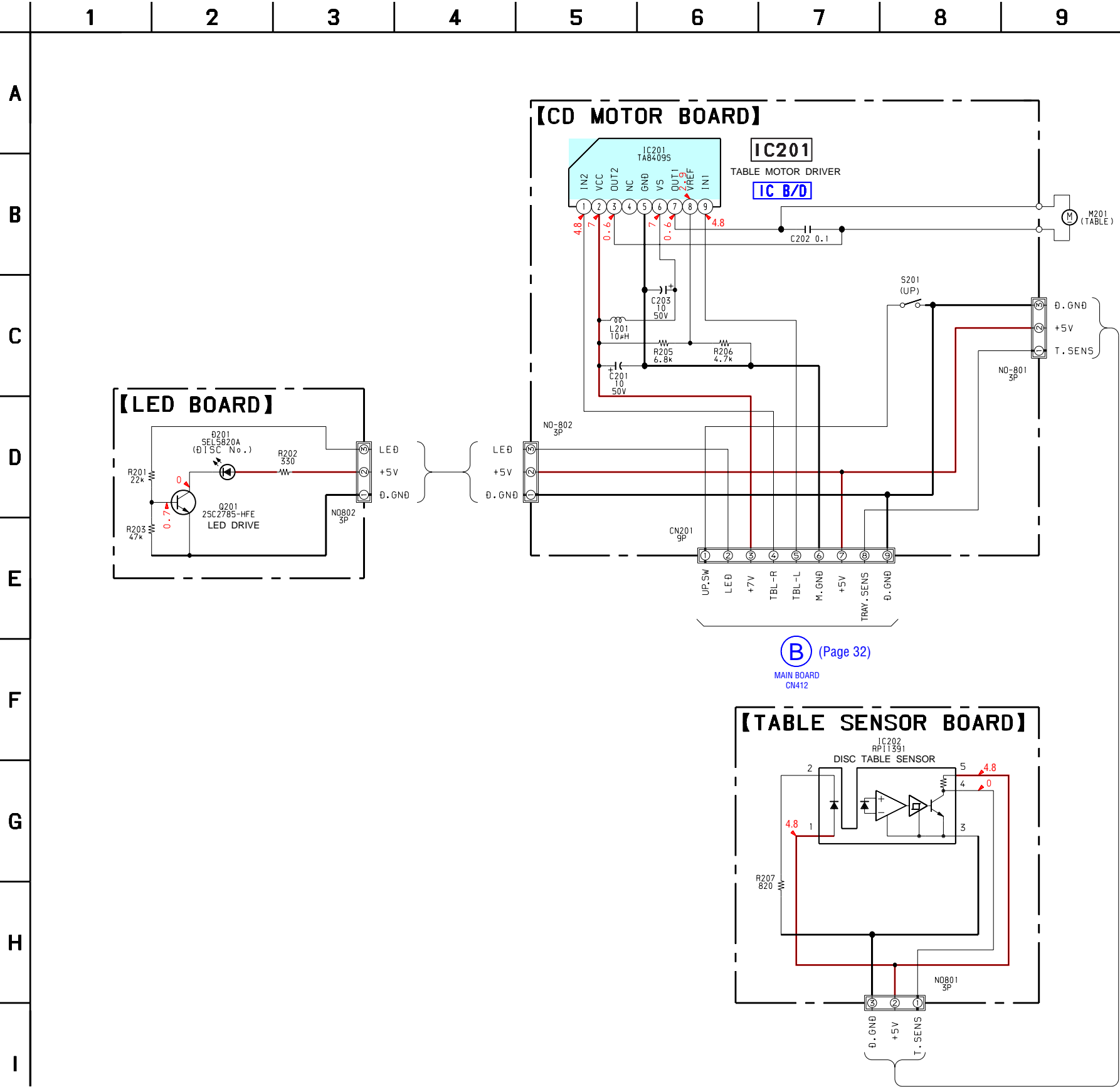


【LED BOARD】



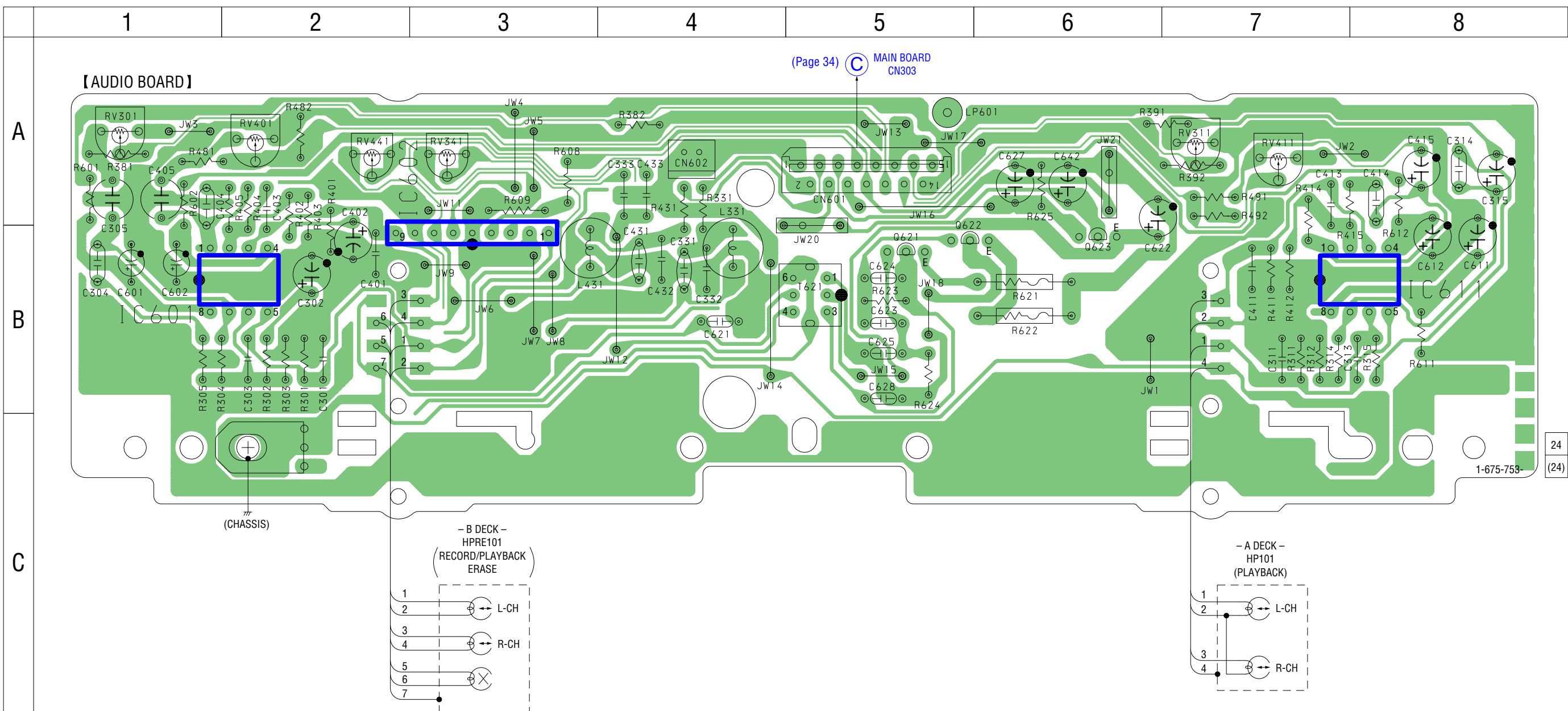


7-9. SCHEMATIC DIAGRAM – CD MOTOR Section – • See page 47 for IC Block Diagram.





**7-10. PRINTED WIRING BOARD – AUDIO Board – • See page 23 for Circuit Boards Location.**



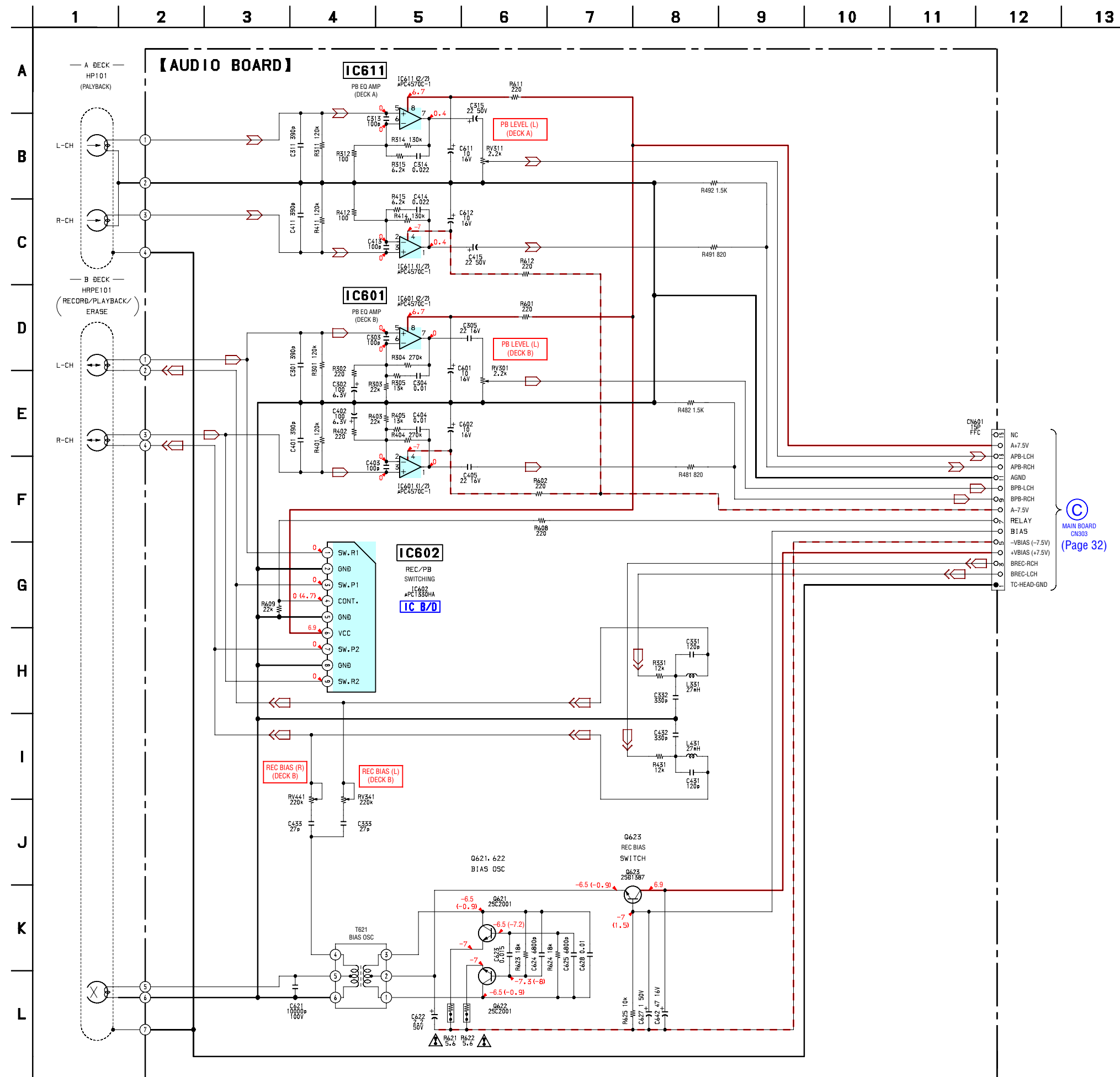
- **Semiconductor Location**

Ref. No.	Location
IC601	B-2
IC602	B-3
IC611	B-8
Q621	B-5
Q622	B-5
Q623	B-6

There are a few cases that the part isn't mounted in model is printed on diagrams.





**7-11. SCHEMATIC DIAGRAM – AUDIO Board – • See page 47 for IC Block Diagram.**



- Voltages and waveforms are dc with respect to ground under no-signal conditions.

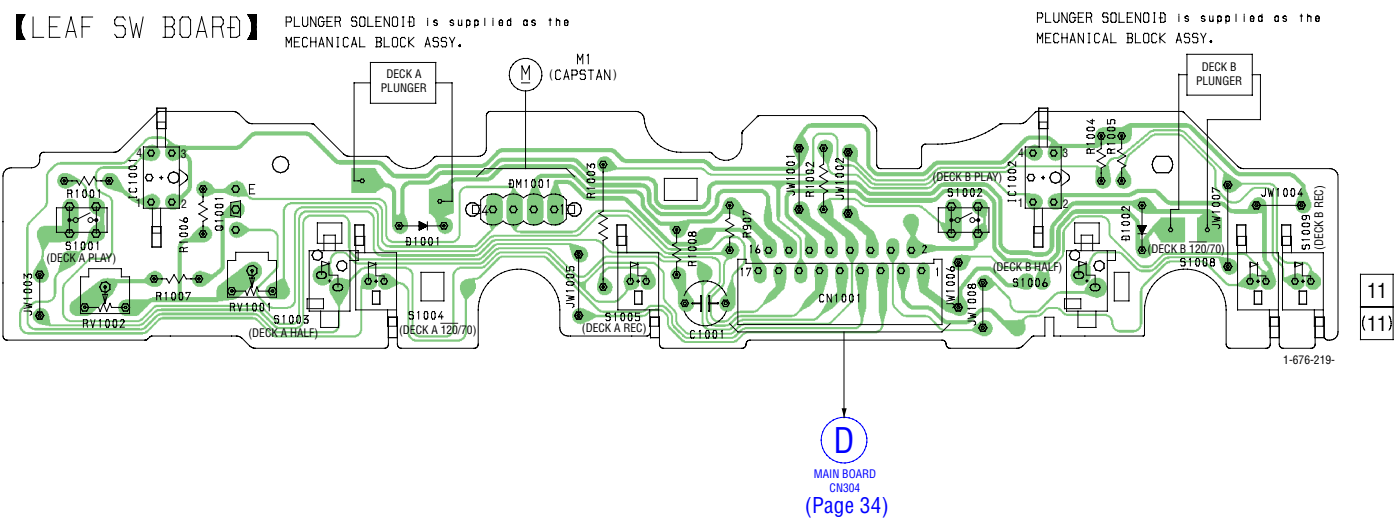
no mark : TAPE PLAY  
(        ) : RECORD

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

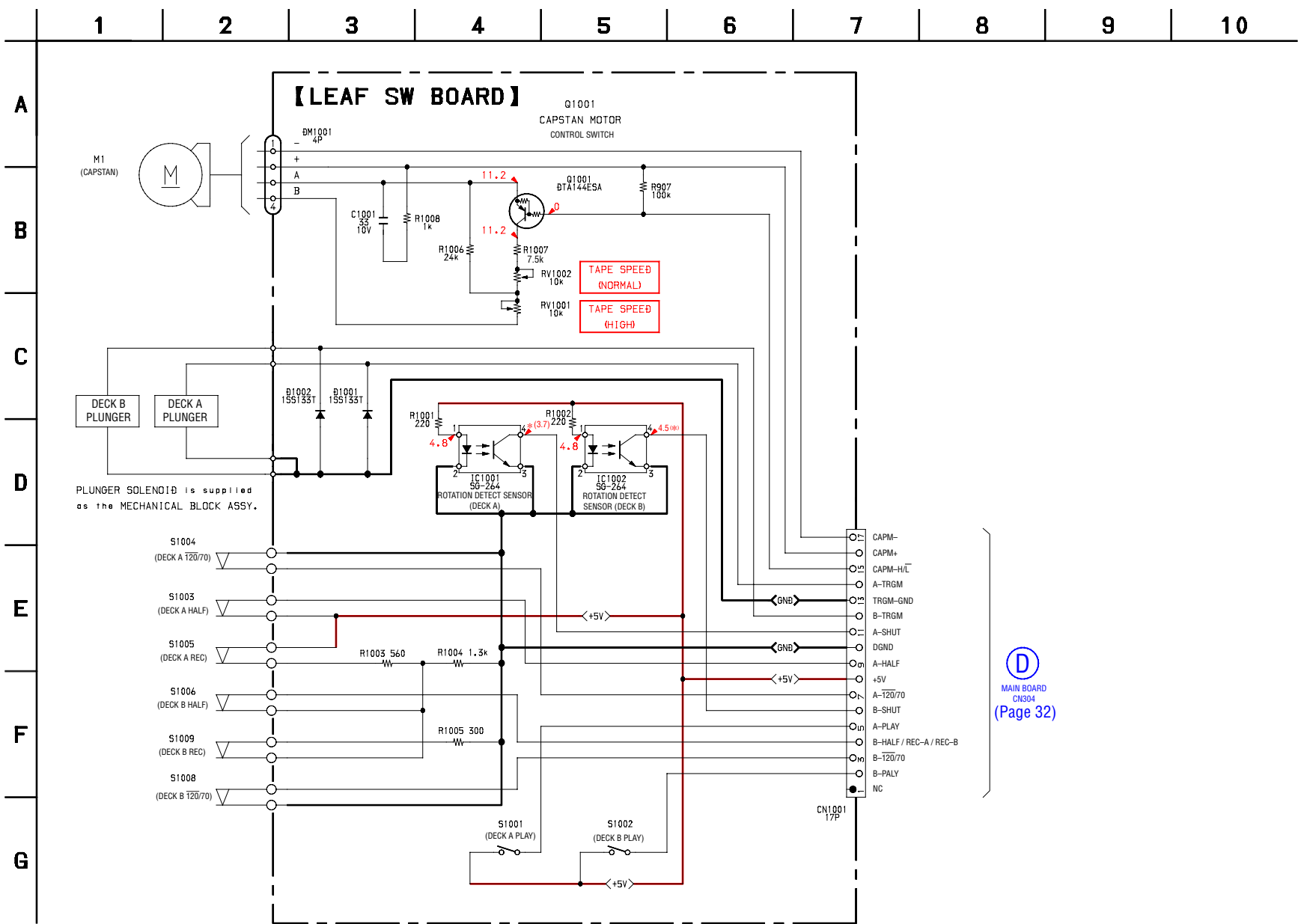
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



7-12. PRINTED WIRING BOARD – LEAF SW Board – • See page 23 for Circuit Boards Location.



7-13. SCHEMATIC DIAGRAM – LEAF SW Board –

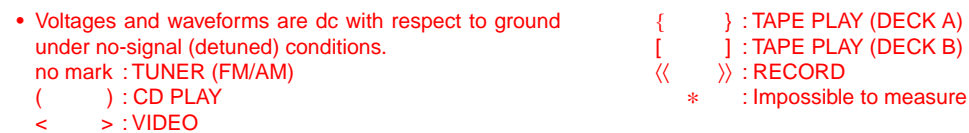




## 31 31

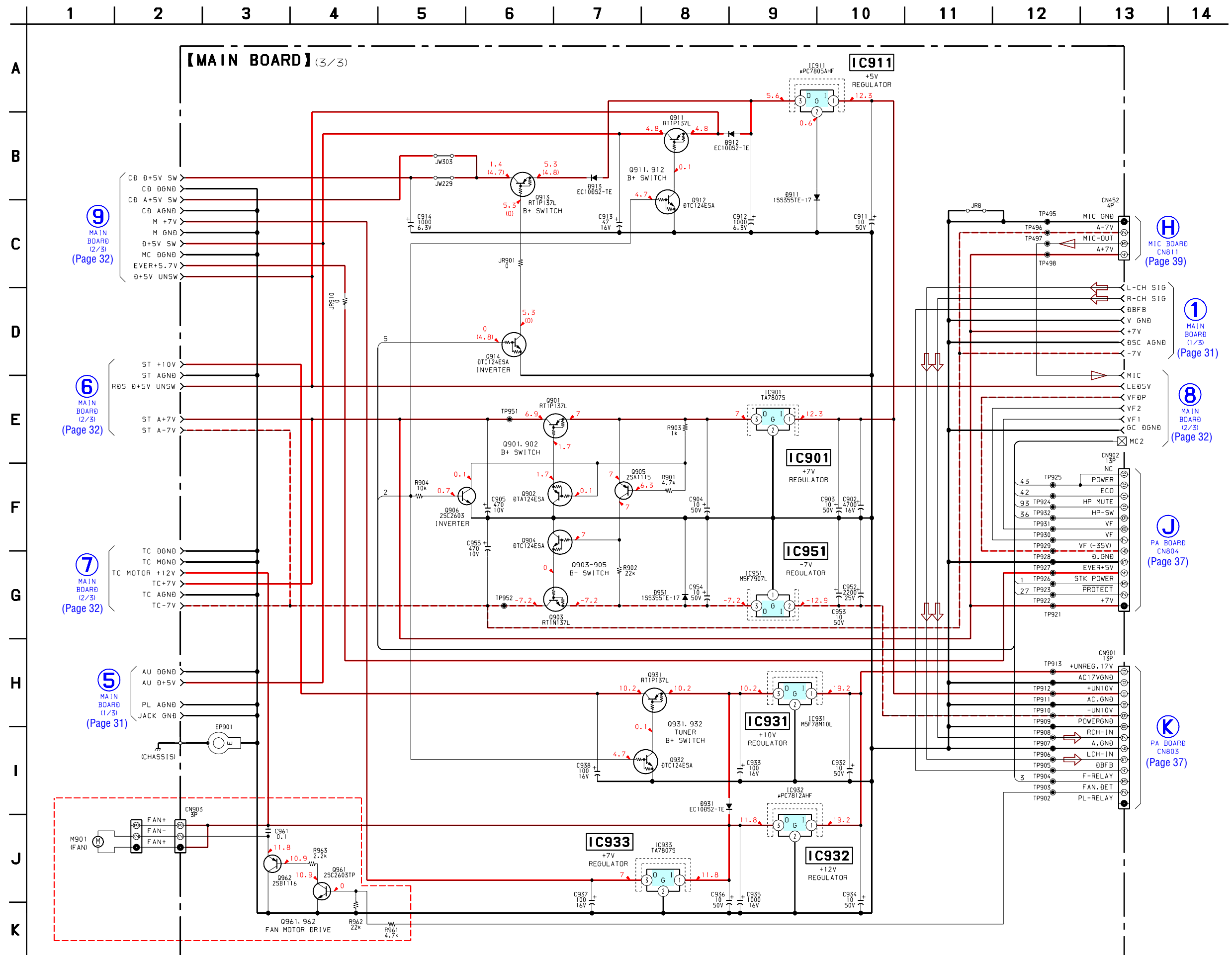








## 7-16. SCHEMATIC DIAGRAM – MAIN Board (3/3) –









Semiconductor Location

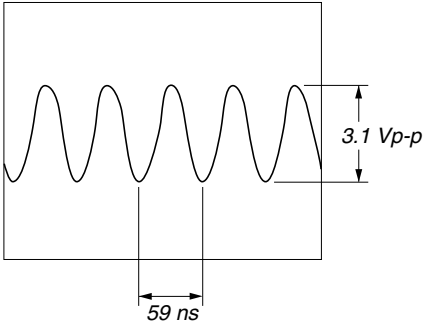
Ref. No.	Location
D191	C-8
D192	C-8
D193	B-8
D194	C-8
D501	J-8
D534	H-8
D801	J-8
D802	I-9
D803	I-9
D804	J-9
D805	I-9
D806	I-8
D807	J-10
D808	J-7
D911	F-11
D912	G-11
D913	G-11
D931	H-11
D951	C-12
IC101	E-5
IC181	C-7
IC191	C-8
IC301	H-4
IC501	H-7
IC601	C-3
IC781	B-13
IC801	J-9
IC901	D-12
IC911	F-11
IC931	H-12
IC932	H-12
IC933	I-12
IC951	C-12
Q111	E-7
Q112	E-7
Q113	E-7
Q115	E-6
Q161	E-6
Q162	F-6
Q163	F-6
Q165	F-5
Q331	J-4
Q332	J-4
Q333	J-4
Q334	J-4
Q335	J-5
Q336	J-4
Q339	J-5
Q801	I-8
Q802	J-10
Q803	J-10
Q804	I-10
Q901	D-13
Q902	C-13
Q903	C-12
Q904	C-12
Q905	C-13
Q906	C-13
Q911	G-11
Q912	F-11
Q913	G-11
Q914	G-11
Q931	H-11
Q932	H-11
Q961	B-12
Q962	B-12

There are a few cases that the part isn't mounted in model is printed on diagrams.

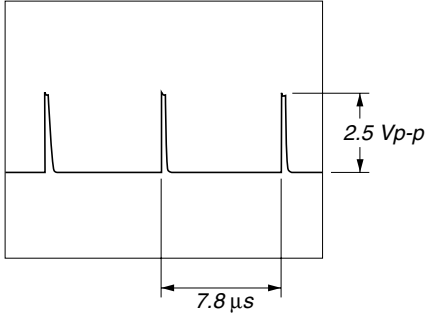
Waveforms

BD Board

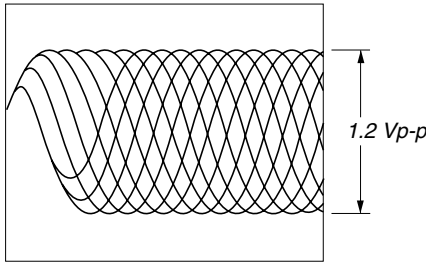
IC101 (XTAO)



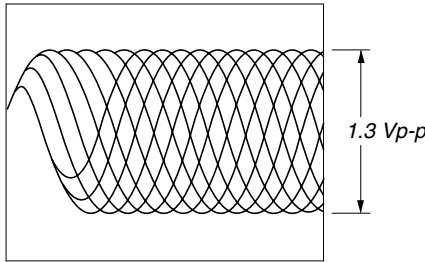
IC101 (MDP) (CD Play Mode)



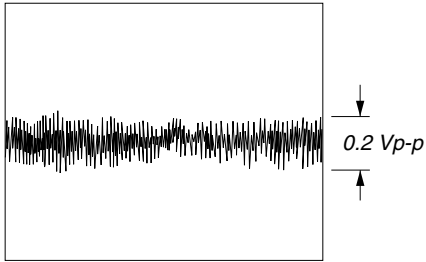
IC101 (RFAC) (CD Play Mode)



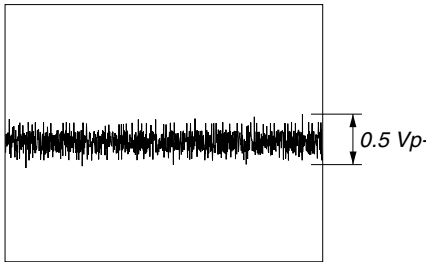
IC103 (RFO) (CD Play Mode)



IC101 (TE) (CD Play Mode)

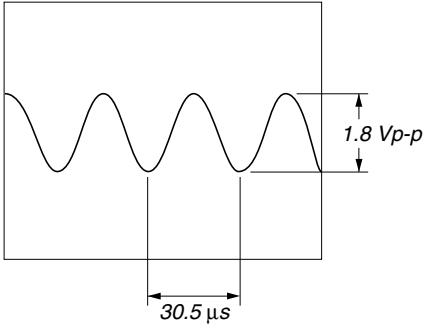


IC101 (FE) (CD Play Mode)

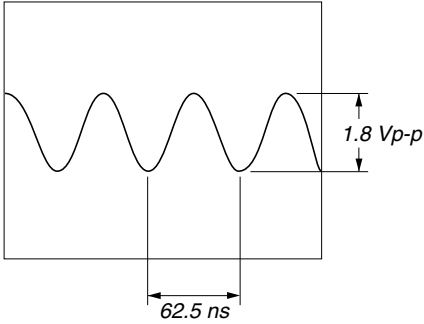


MAIN Board

IC501 (XC-IN)

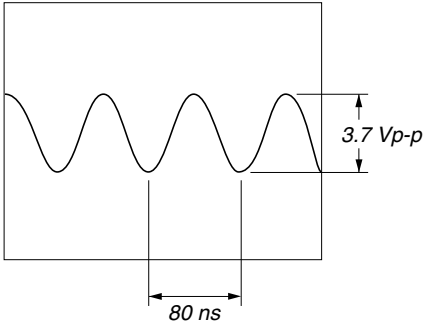


IC501 (X-IN)



PANEL FL Board

IC601 (XIN)

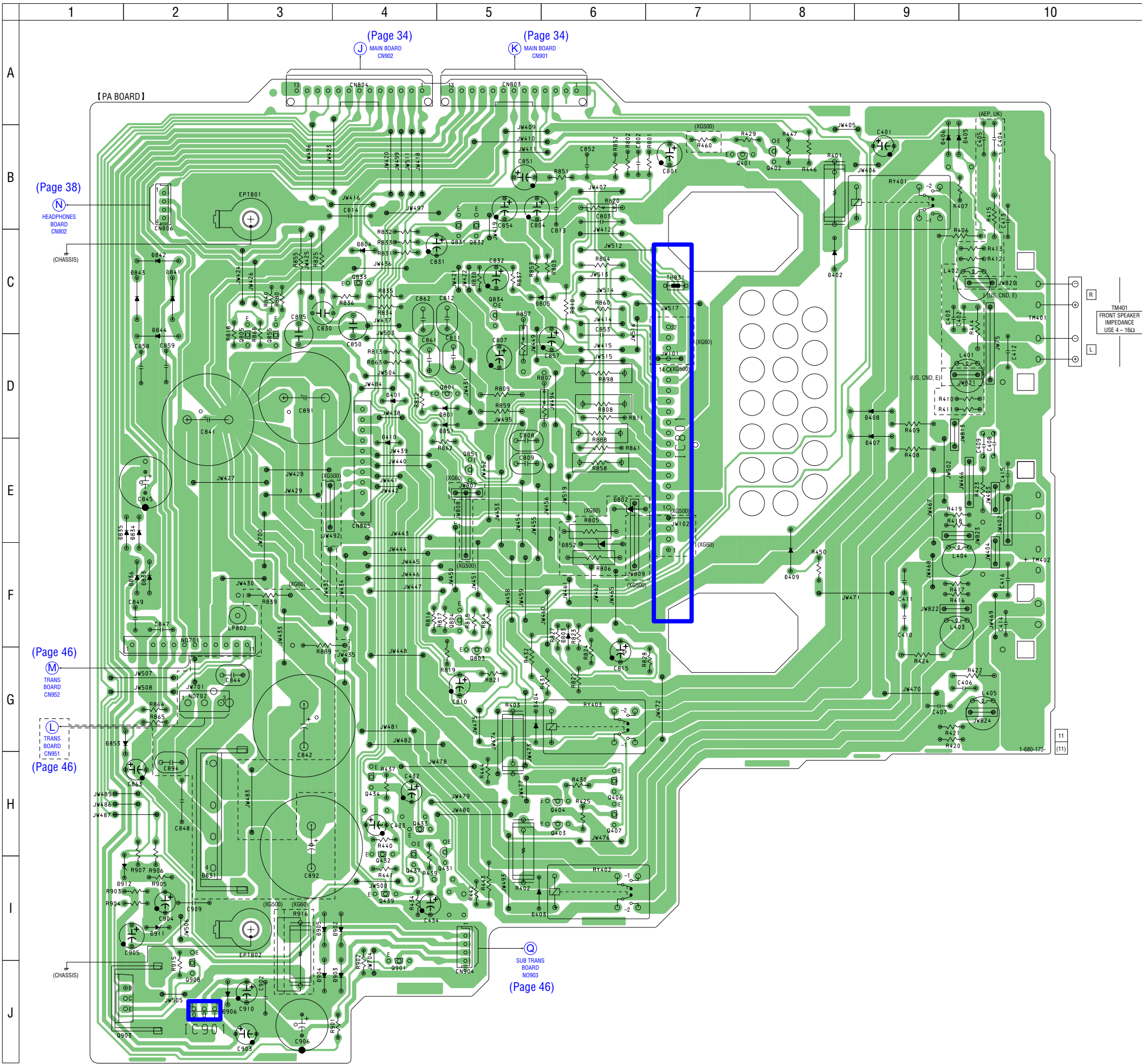




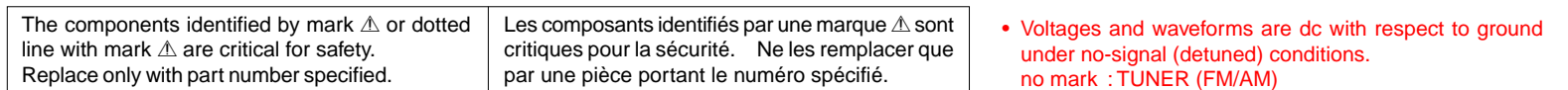
7-18. PRINTED WIRING BOARD – PA Board – • See page 23 for Circuit Boards Location.

• Semiconductor Location

Ref. No.	Location
D401	D-4
D402	C-8
D405	B-9
D406	B-9
D801	D-5
D802	E-6
D803	F-6
D804	C-4
D805	C-6
D831	H-2
D833	F-2
D834	E-2
D835	E-2
D836	F-2
D841	C-2
D842	C-2
D843	C-2
D844	D-2
D851	D-5
D852	F-6
D853	G-2
D902	I-4
D903	J-4
D904	J-3
D905	I-3
D906	J-3
D911	I-2
D912	I-2
IC801	D-7
IC901	J-2
Q401	B-7
Q402	B-8
Q431	H-5
Q432	H-4
Q433	H-4
Q434	H-4
Q437	H-4
Q439	I-4
Q801	D-5
Q803	G-5
Q804	F-5
Q805	D-3
Q831	B-5
Q832	B-5
Q833	C-4
Q834	C-5
Q851	E-5
Q855	D-3
Q901	J-4
Q903	J-2
Q908	J-2

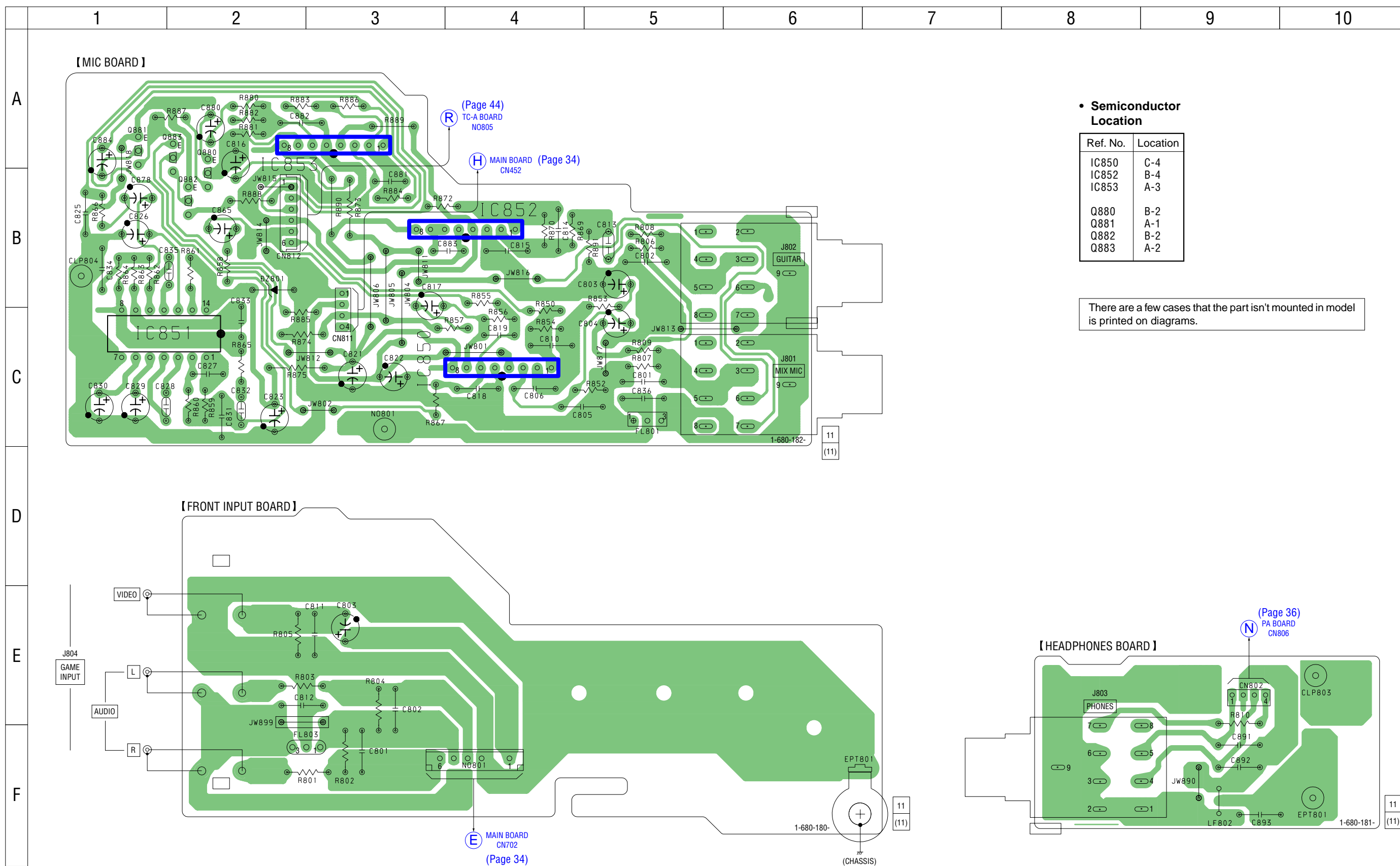






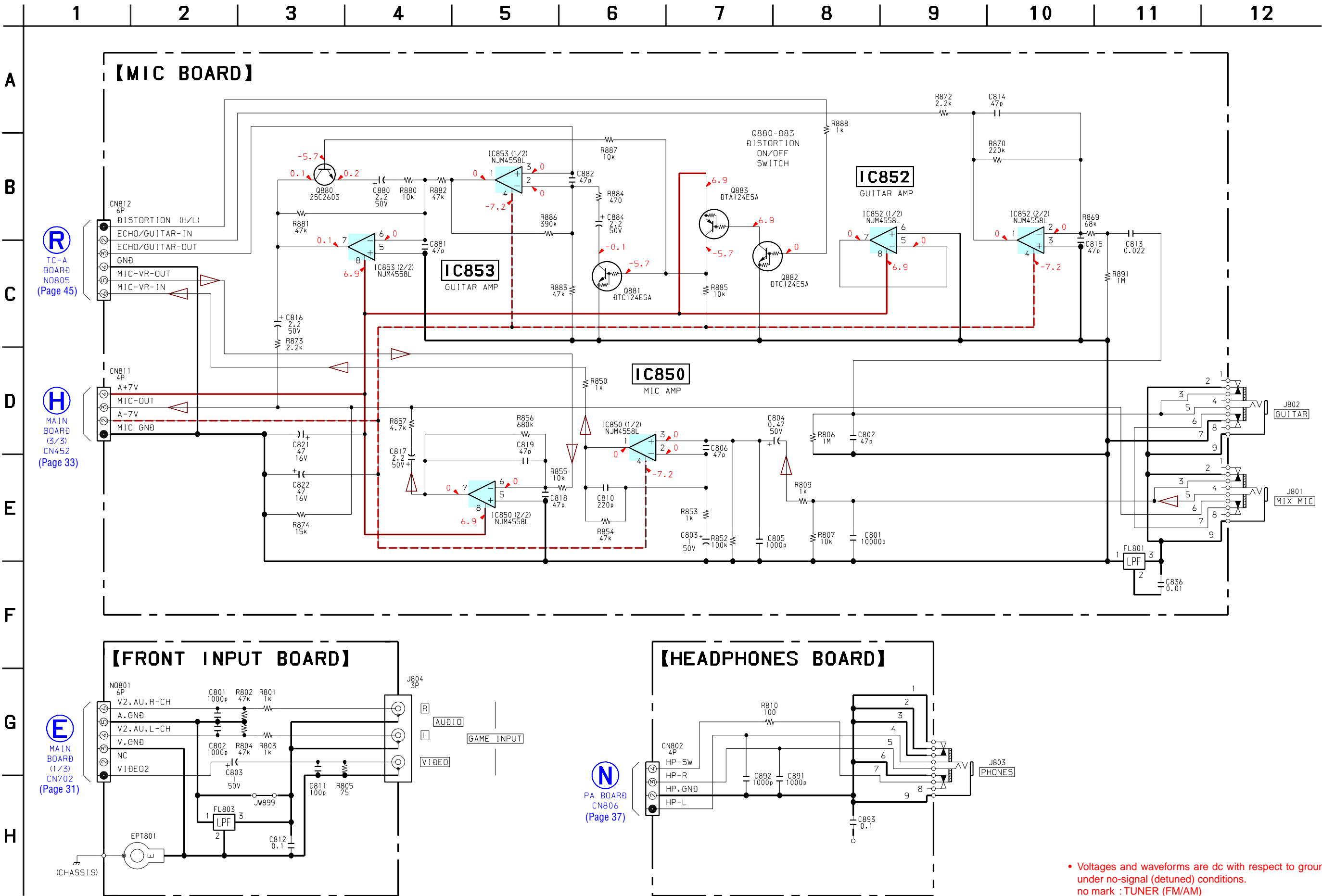


**7-20. PRINTED WIRING BOARDS – MIC/FRONT INPUT/HEADPHONES Boards – • See page 23 for Circuit Boards Location.**



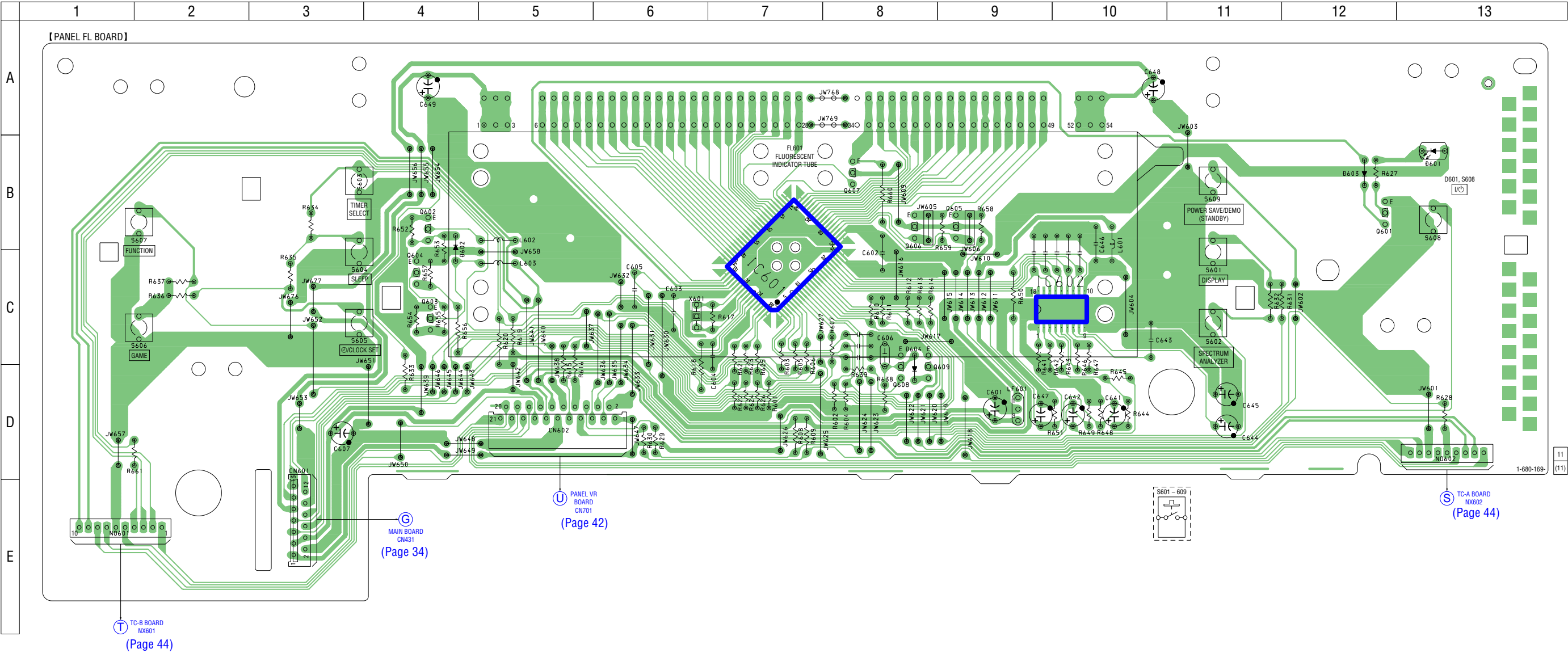


7-21. SCHEMATIC DIAGRAM – MIC/FRONT INPUT/HEADPHONES Boards –





7-22. PRINTED WIRING BOARD – PANEL FL Board – • See page 23 for Circuit Boards Location.

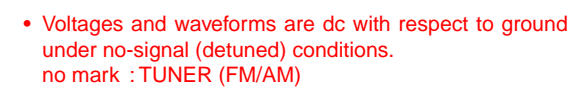


• Semiconductor Location

Ref. No.	Location
D601	B-13
D602	B-4
D603	B-12
D604	D-8
IC601	C-7
IC602	C-10
Q601	B-12
Q602	B-4
Q603	C-4
Q604	C-4
Q605	B-9
Q606	B-8
Q607	B-8
Q608	D-8
Q609	D-8

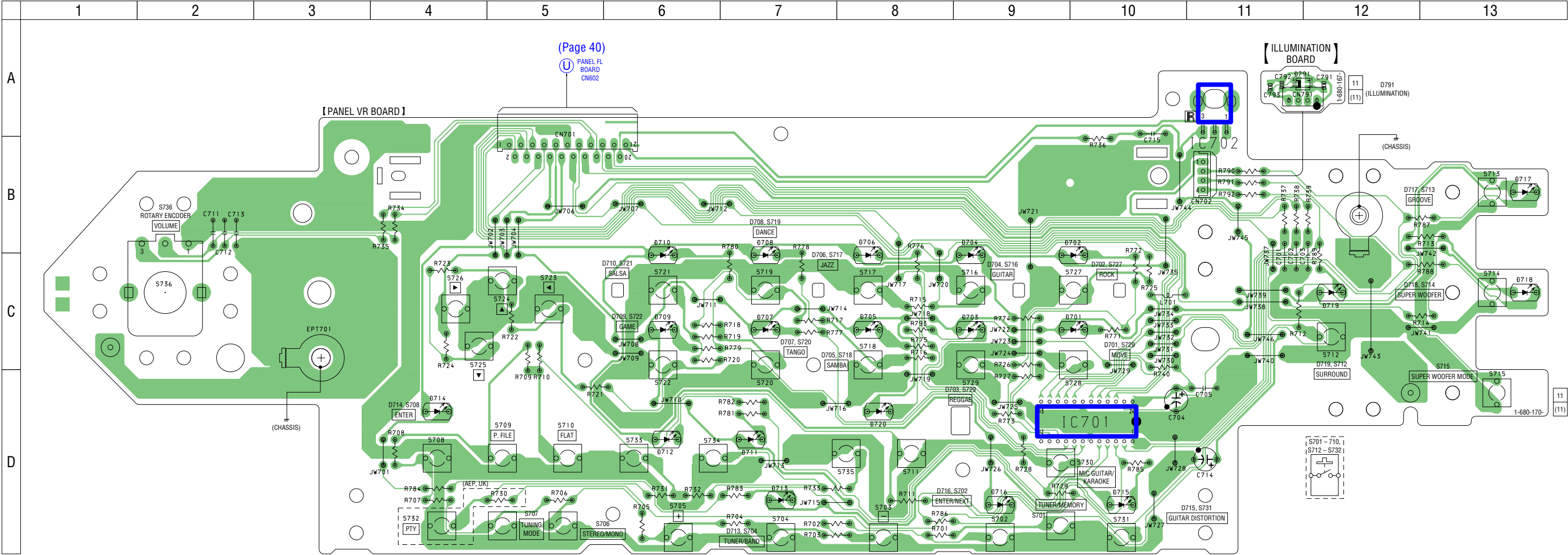
There are a few cases that the part isn't mounted in model is printed on diagrams.







7-24. PRINTED WIRING BOARDS – PANEL VR/ILLUMINATION Boards – • See page 23 for Circuit Boards Location.



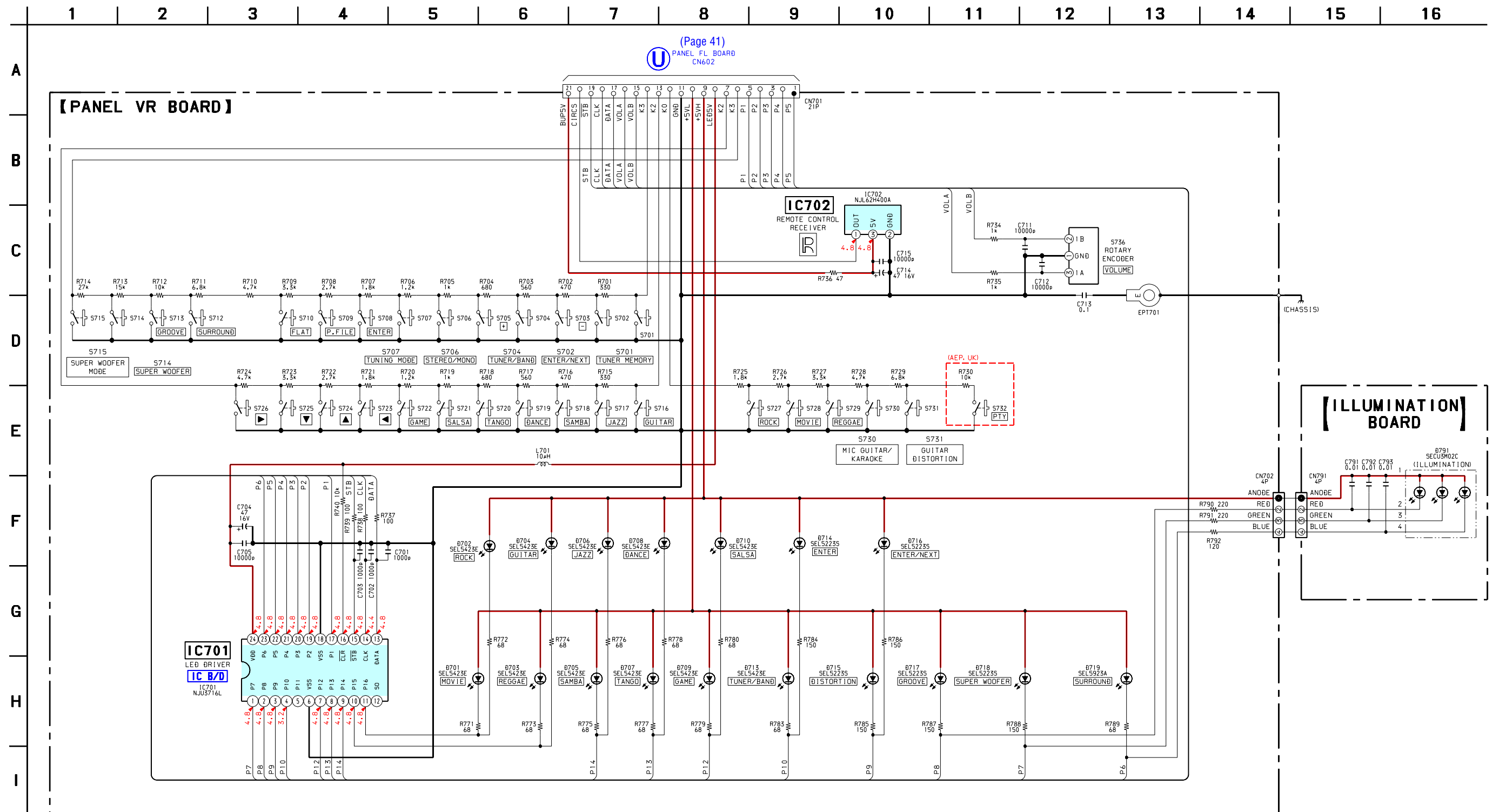
• Semiconductor Location

There are a few cases that the part isn't mounted in model is printed on diagrams.

Ref. No.	Location
D701	C-10
D702	C-10
D703	C-9
D704	C-9
D705	C-8
D706	C-8
D707	C-7
D708	C-7
D709	C-6
D710	C-6
D713	D-7
D714	D-4
D715	D-10
D716	D-9
D717	B-13
D718	C-13
D719	C-12
D791	A-11
IC701	D-10
IC702	A-11



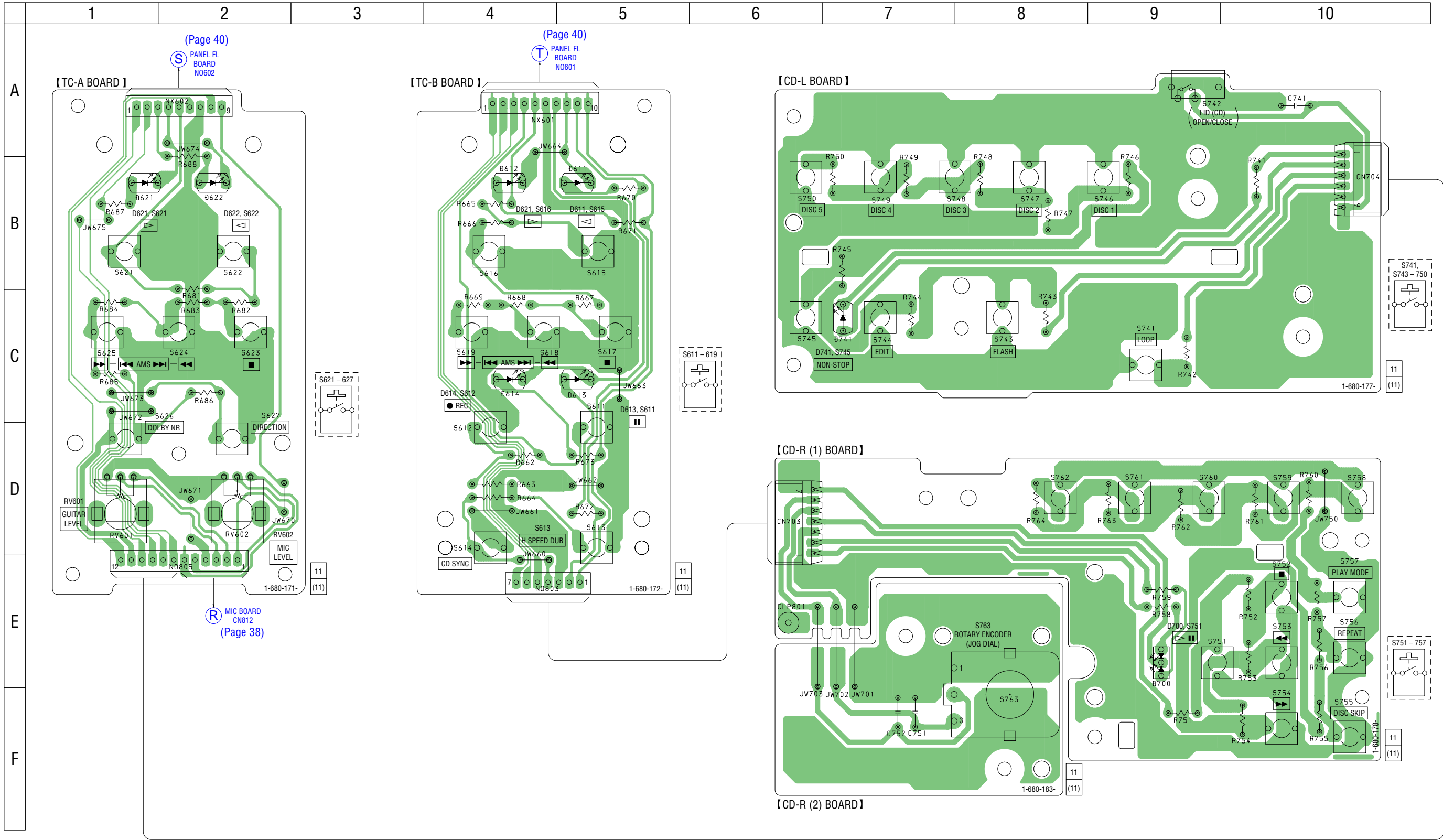
7-25. SCHEMATIC DIAGRAM – PANEL VR/ILLUMINATION Boards – • See page 47 for IC Block Diagram.



• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.  
no mark : TUNER (FM/AM)



7-26. PRINTED WIRING BOARDS – TC-A/TC-B/CD-L/CD-R (1)/CD-R (2) Boards – • See page 23 for Circuit Boards Location.



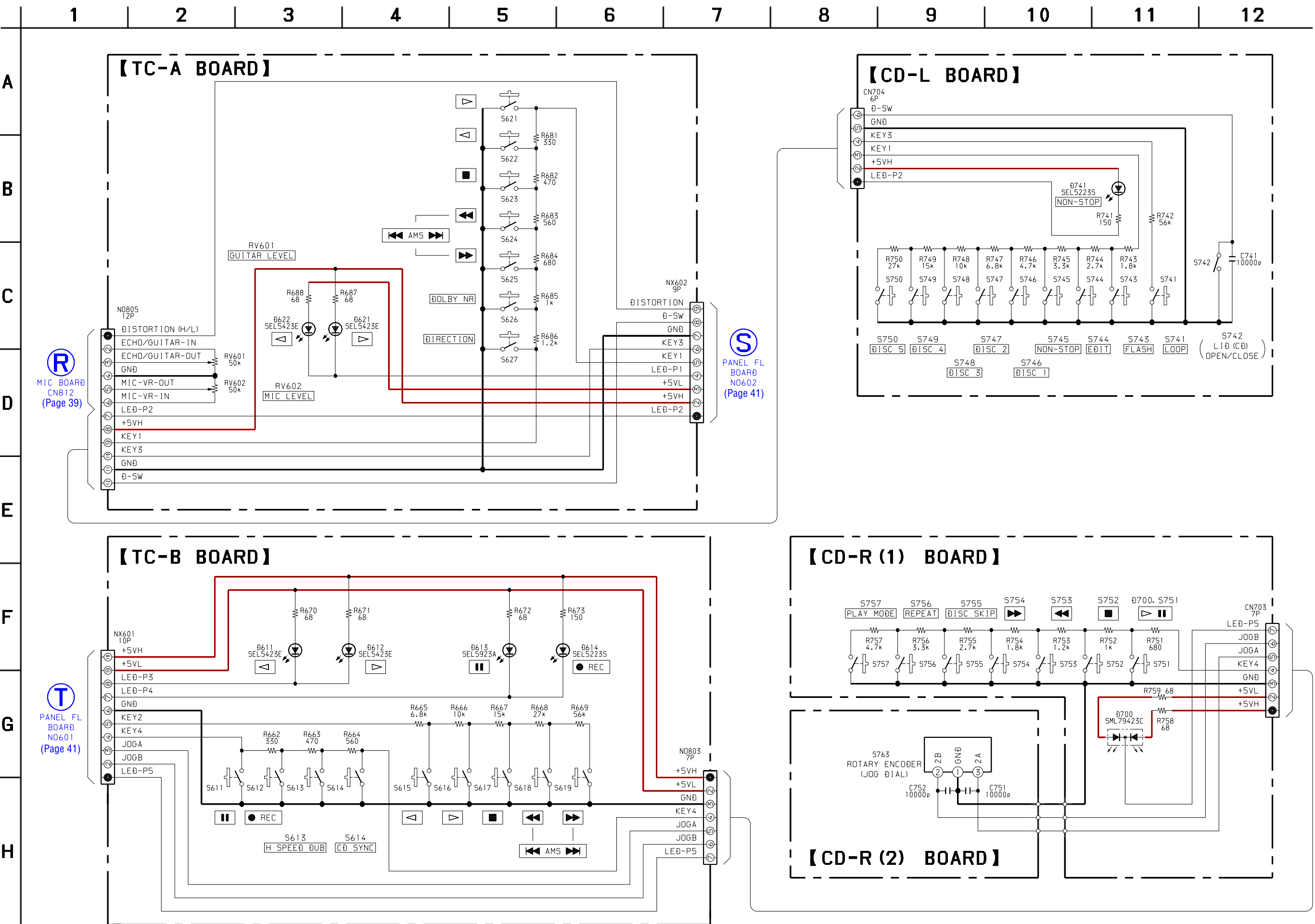
• Semiconductor Location

Ref. No.	Location
D611	B-5
D612	B-4
D613	C-5
D614	C-4
D621	B-1
D622	B-2
D700	E-9
D741	C-7

There are a few cases that the part isn't mounted in model is printed on diagrams.

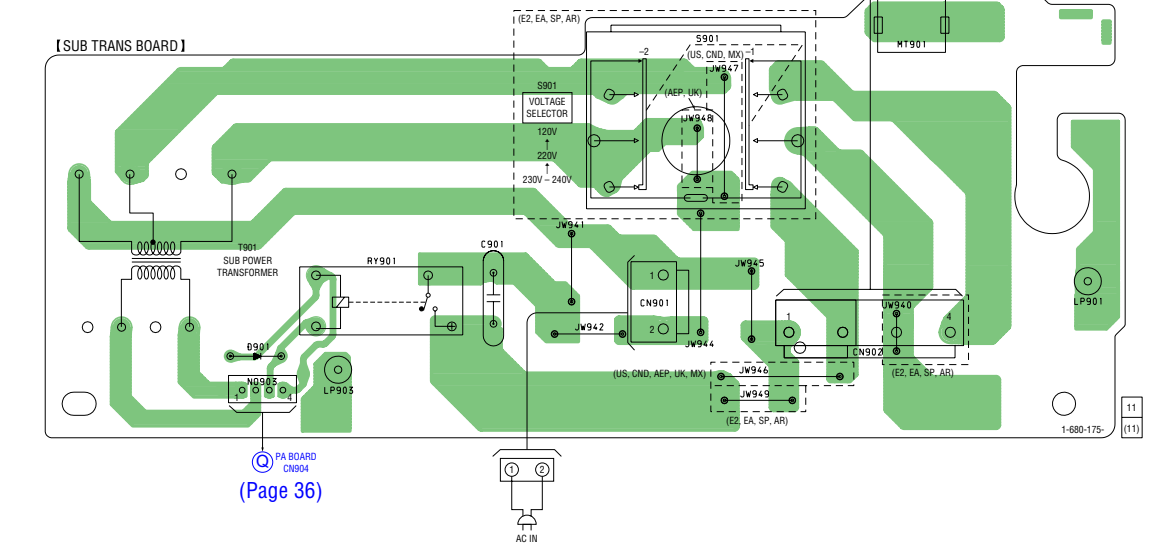
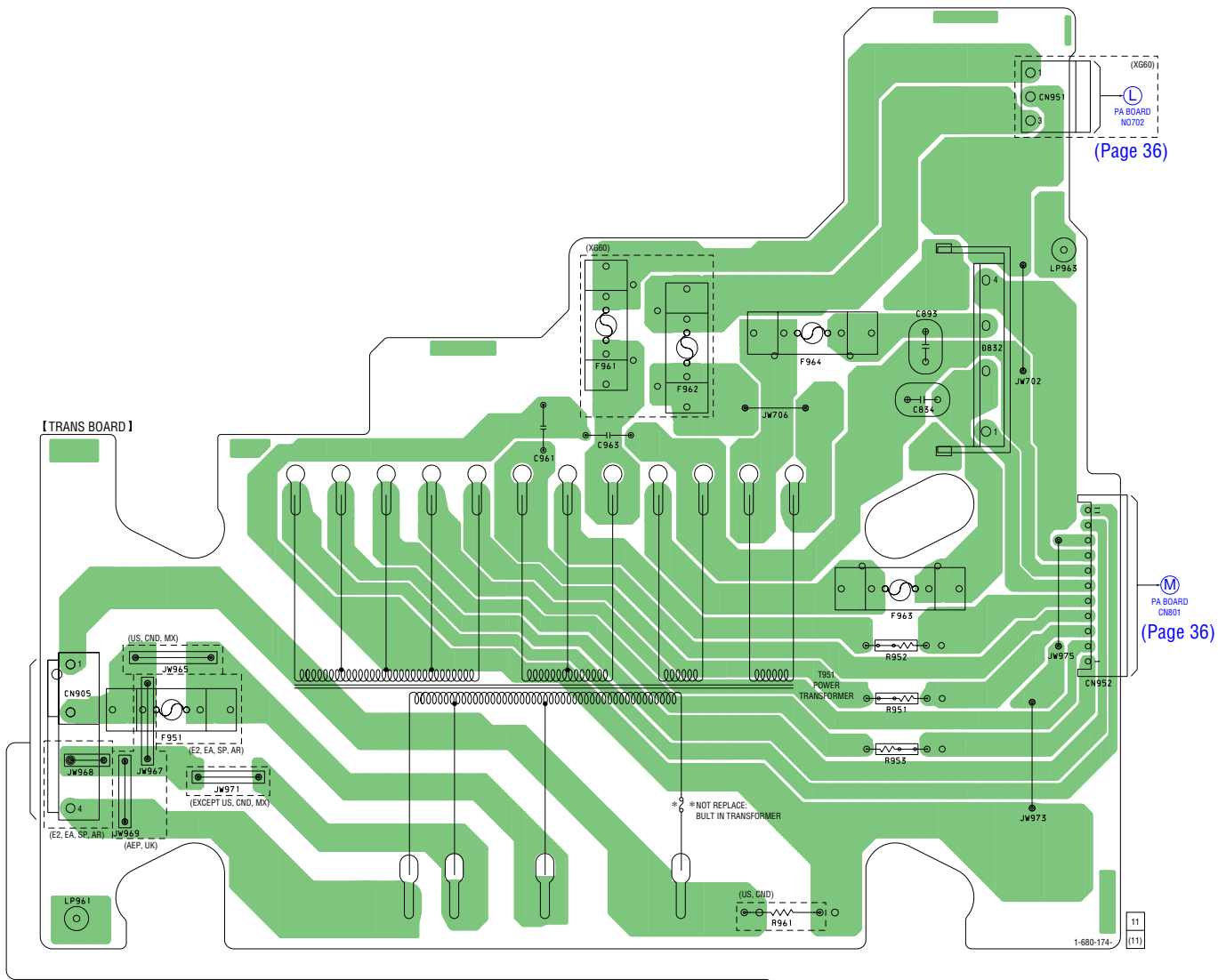


7-27. SCHEMATIC DIAGRAM – TC-A/TC-B/CD-L/CD-R (1)/CD-R (2) Boards –

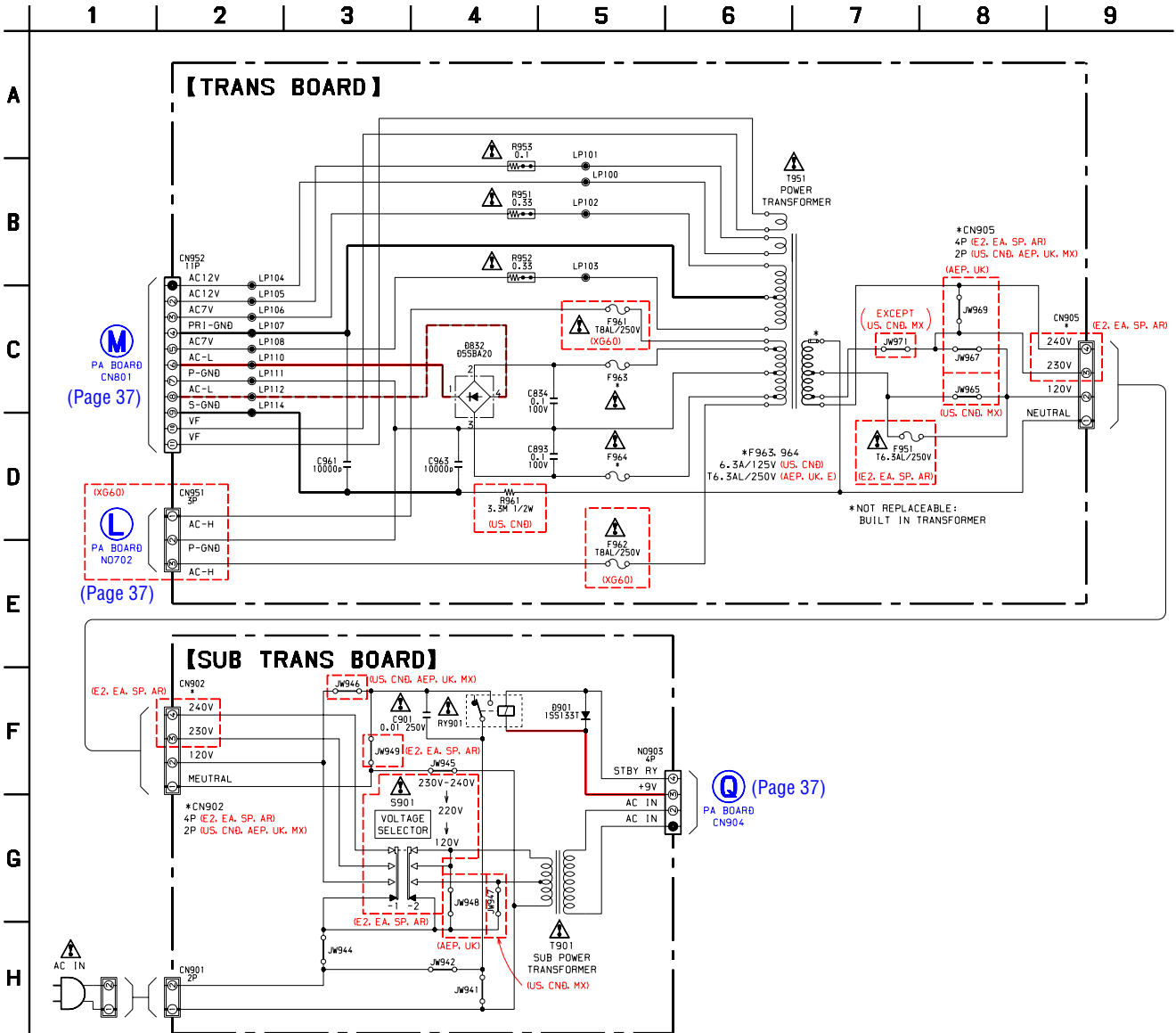




7-28. PRINTED WIRING BOARDS – TRANSFORMER Section–  
• See page 23 for Circuit Boards Location.



7-29. SCHEMATIC DIAGRAM –TRANSFORMER Section –



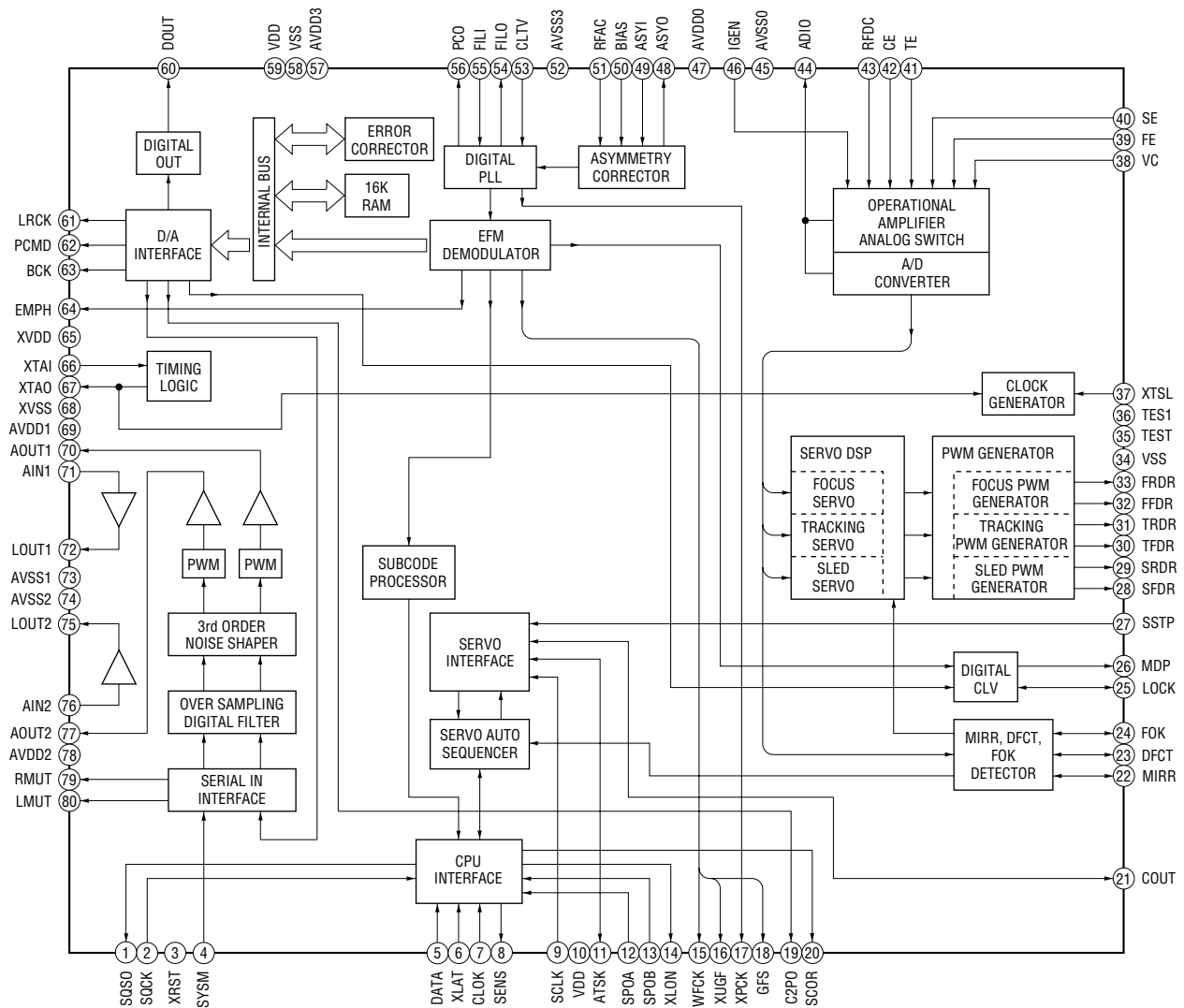
The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

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

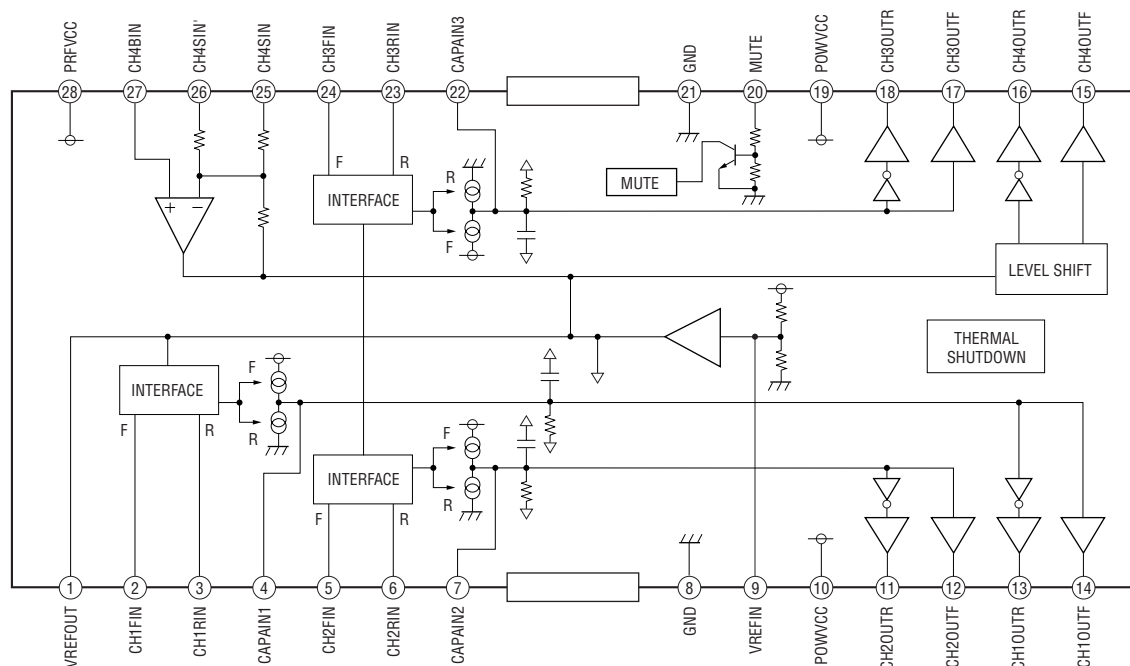


• IC Block Diagrams  
– BD Board –

IC101 CXD2587Q

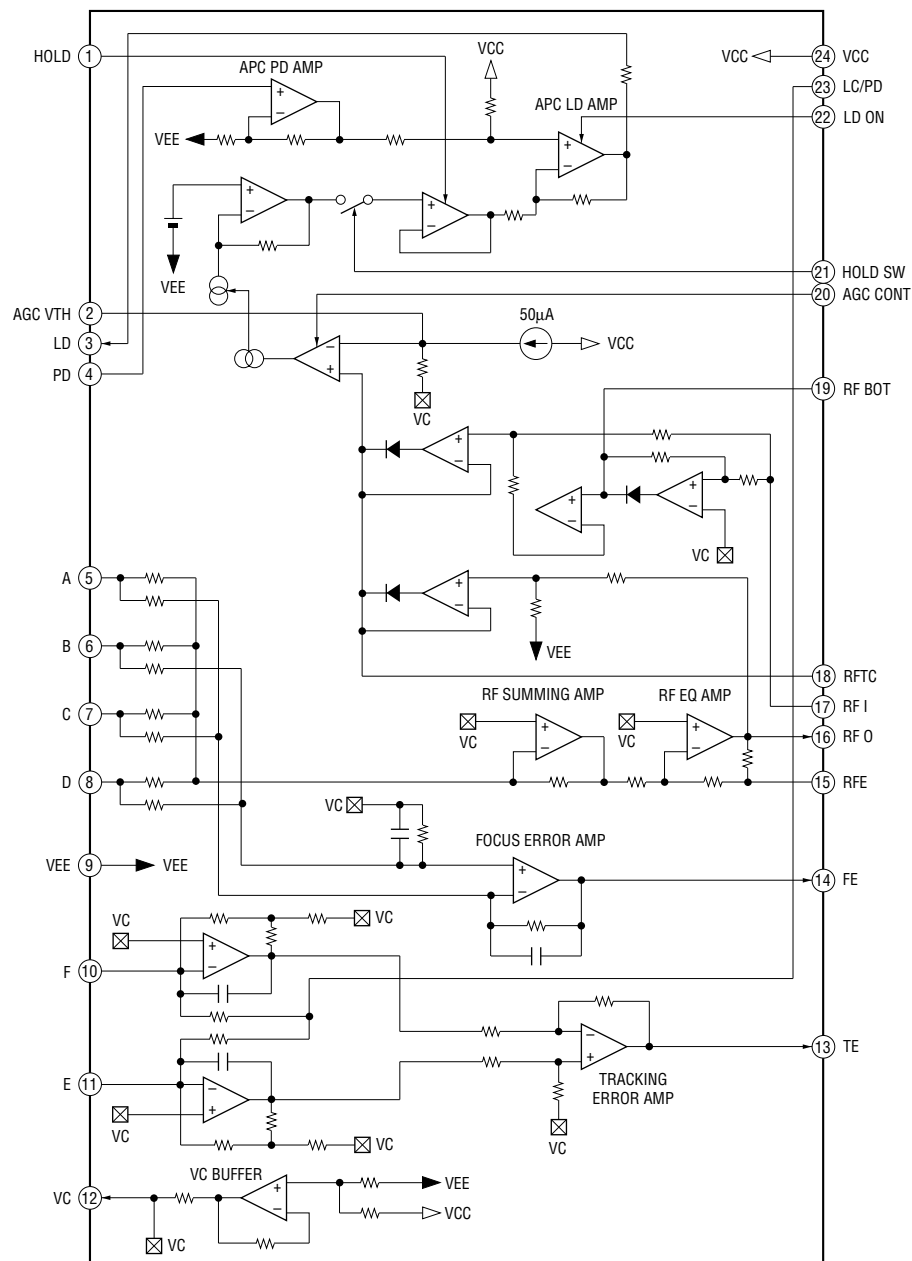


IC102 BA5974FP-E2





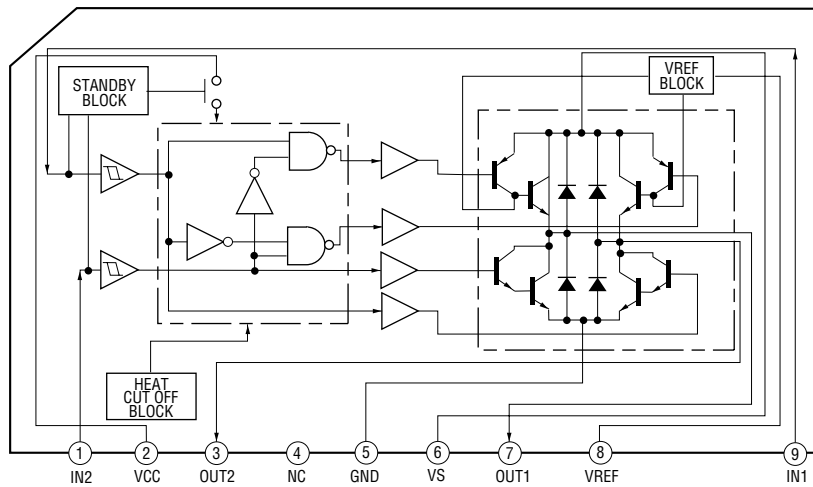
## IC103 CXA2568M-T6



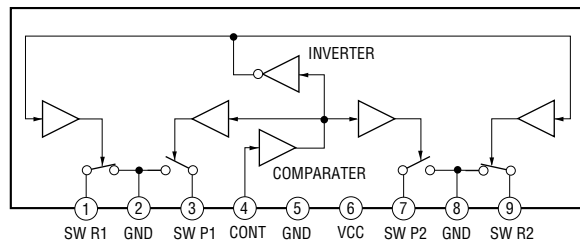


## – CD MOTOR Board –

IC201 TA8409S

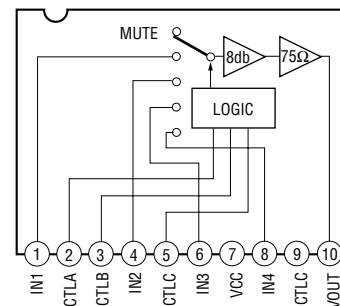


## – AUDIO Board –

IC602  $\mu$ PC1330HA

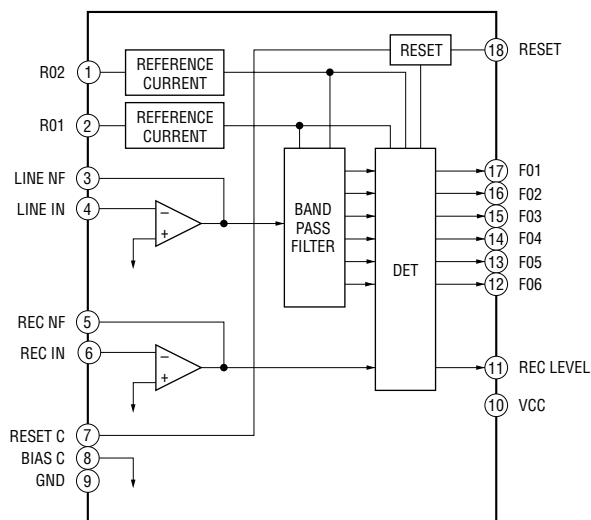
## – MAIN Board –

IC191 BA7615N



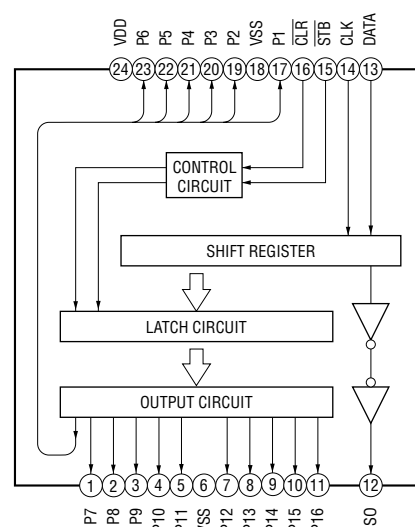
## – PANEL FL Board –

IC602 BA3830F



## – PANEL VR Board –

IC701 NJU3716L





## 7-30. IC PIN FUNCTION DESCRIPTION

## • MAIN BOARD IC501 M30622MAA-A92FP (SYSTEM CONTROLLER (CD MECHANISM CONTROL))

Pin No.	Pin Name	I/O	Description
1	STK-POWER	O	Power amplifier on/off selection signal output “L”: standby mode, “H”: power amplifier on
2	POWER	O	Power on/off control signal output for the audio system (+5V) and deck, panel, audio system (+7V) and FM/AM tuner unit (+10V) “L”: standby mode, “H”: power on
3	F-RELAY	O	Relay drive signal output for the front speaker protect “H”: relay on
4	REAR-RELAY	O	Relay drive signal output for the rear speaker protect “H”: relay on Not used (open)
5	CD-POWER	O	Power on/off control signal output for the CD mechanism deck section “L”: standby mode, “H”: power on
6	LINE-MUTE	O	Line muting on/off control signal output “L”: muting on, “H”: muting off
7	DBFB-H/L	O	DBFB normal/high selection signal output to the M62493FP (IC101) “L”: DBFB high, “H”: DBFB low (normal)
8, 9	—	—	Connect to ground
10	XC-IN	I	Sub system clock input terminal (32.768 kHz)
11	XC-OUT	O	Sub system clock output terminal (32.768 kHz)
12	RESET	I	System reset signal input from the reset signal generator (IC801) “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
13	X-OUT	O	Main system clock output terminal (16 MHz)
14	VSS	—	Ground terminal
15	X-IN	I	Main system clock input terminal (16 MHz)
16	VDD	—	Power supply terminal (+5V)
17	NMI	I	Non-maskable interrupt input terminal Fixed at “H” in this set
18	WAKE UP	I	Wakeup control signal input from the fluorescent indicator tube driver (IC601) “L” active
19	SCOR	I	Subcode sync (S0+S1) detection signal input from the CXD2587Q (IC101)
20	RDS-INT	I	Serial data transfer clock signal input from the RDS decoder on the FM/AM tuner unit (Used for the AEP and UK models)
21	RDS-DATA	I	Serial data input from the RDS decoder on the FM/AM tuner unit (Used for the AEP and UK models)
22	AC-CUT	I	AC off detection signal input from the reset signal generator (IC801) “L”: AC cut checked
23	PL-CLK	O	Serial data transfer clock signal output to the pro-logic circuit Not used (open)
24	PL-DATA	O	Serial data output to the pro-logic circuit Not used (open)
25	PL-LAT	O	Serial data latch pulse output to the pro-logic circuit Not used (open)
26	TIMER LED	O	LED drive signal output terminal Not used (open)
27	PROTECT	I	Protect on/off detection signal input from the speaker protect circuit “L”: protect on, “H”: protect off
28	V MUTE	O	Video muting on/off control signal output to the BA7615N (IC191) “L”: muting off, “H”: muting on
29	IIC-CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the fluorescent indicator tube driver (IC601)
30	IIC-DATA	I/O	Communication data bus with the fluorescent indicator tube driver (IC601)
31	NO-USE	O	Not used (open)
32	SQ-DATA	I	Subcode Q data input from the CXD2587Q (IC101)
33	SQ-CLK	I	Subcode Q data reading clock signal output to the CXD2587Q (IC101)
34	SW-MODE	O	Music/movie mode selection signal output to the M62493FP (IC101) “L”: movie mode, “H”: music mode
35	CD-DATA	O	Serial data output to the CXD2587Q (IC101)
36	H/P IN	I	Connection detection signal input of the headphone jack (J803) “L”: no connected, “H”: headphone connected
37	CD-CLK	O	Serial data transfer clock signal output to the CXD2587Q (IC101)
38	493-LAT	O	Serial data latch pulse output to the M62493FP (IC101)



Pin No.	Pin Name	I/O	Description
39	CLOCK-OUT	O	Not used (open)
40, 41	NO-USE	O	Not used (open)
42	FL OFF	O	Filament on/off selection signal output for the fluorescent indicator tube (FL601) “L”: filament off, “H”: filament on Not used in this set
43	STBY RELAY	O	Main power on/off control signal output “L”: standby mode, “H”: power on
44	BASS FREQ	O	Sync bass frequency normal/high selection signal output terminal “L”: sync bass off (normal), “H”: sync bass high Not used (open)
45	FUNC SEL1	O	Function selection signal output to the BA7615N (IC191)
46	FUNC SEL0	O	Function selection signal output to the BA7615N (IC191)
47	493-DATA	O	Serial data output to the M62493FP (IC101)
48	493-CLK	O	Serial data transfer clock signal output to the M62493FP (IC101)
49	ST-MUTE	O	Tuner muting on/off control signal output to the FM/AM tuner unit “L”: muting off, “H”: muting on
50	STEREO	I	FM stereo detection signal input from the FM/AM tuner unit “L”: stereo
51	TUNED	I	Tuning detection signal input from the FM/AM tuner unit “L”: tuned
52	ST-CE	O	PLL chip enable signal output to the FM/AM tuner unit
53	ST-DOUT	O	PLL serial data output to the FM/AM tuner unit
54	ST-DIN	I	PLL serial data input from the FM/AM tuner unit
55	ST-CLK	O	PLL serial data transfer clock signal output to the FM/AM tuner unit
56	SENS	I	Internal status detection monitor input from the CXD2587Q (IC101)
57	HOLD	O	Laser power control signal output to the CXA2568M (IC103)
58	XLT	O	Serial data latch pulse output to the CXD2587Q (IC101)
59	XRST	O	Reset signal output to the CXD2587Q (IC101) and BA5974FP (IC102) “L”: reset
60	DISC-SENS	I	Disc status detection signal input terminal Not used (fixed at “L”)
61	T-SENS	I	Disc table status detection signal input from the disc table sensor (IC202)
62	VDD	—	Power supply terminal (+5V)
63	TBL-L	O	Motor drive signal output to the table motor driver (IC201) “L” active *1
64	VSS	—	Ground terminal
65	TBL-R	O	Motor drive signal output to the table motor driver (IC201) “L” active *1
66	LOAD-OUT	O	Loading motor drive signal output terminal Not used (open)
67	LOAD-IN	O	Loading motor drive signal output terminal Not used (open)
68	ENC3/UP-SW	I	Detection signal input from the up switch (S201)
69	ENC2/DISC-LED	O	LED drive signal output of the DISC No. indicator (D201) “H”: LED on
70	ENC1	I	Disc tray address detection signal input terminal Not used (fixed at “L”)
71	OUT-OPEN	I	Disc tray open/close detection signal input terminal Not used (fixed at “L”)
72	B-TRG	O	Deck-B side trigger plunger drive signal output “H”: plunger on
73	A-TRG	O	Deck-A side trigger plunger drive signal output “H”: plunger on
74	CAPM-CNT2	O	Capstan motor (M1) drive signal output “L”: reverse direction, “H”: forward direction
75	CAPM-CNT1	O	Capstan motor drive signal output terminal Not used (open)
76	CAP-M-H/L	O	High/normal speed selection signal output of the capstan motor (M1) “L”: normal speed, “H”: high speed
77	AMS-IN	I	Whether a music is present or not from HA12215F (IC301) is detected at automatic music sensor “L”: music is present, “H”: music is not present

\*1 Table motor (M201) control

Terminal \ Mode	Stop	Counter-clockwise	Clockwise	Brake
TBL-L (pin 63)	“H”	“L”	“H”	“L”
TBL-R (pin 65)	“H”	“H”	“L”	“L”



## HCD-XG60/XG500

Pin No.	Pin Name	I/O	Description
78	TC-MUTE	O	Line muting on/off selection signal output to the HA12215F (IC301) “L”: muting off, “H”: muting on
79	R/PB/PAS	O	Recording/playback/pass selection signal output to the HA12215F (IC301) “L”: recording mode, “H”: pass, “Hi-z”: playback mode
80	NR-ON/OFF	O	Dolby NR on/off selection signal output to the HA12215F (IC301) “L”: dolby off, “H”: dolby on
81	REC-MUTE	O	Recording muting on/off selection signal output to the HA12215F (IC301) “L”: muting on, “H”: muting off
82	BIAS	O	Recording bias on/off selection signal output to the HA12215F (IC301) “L”: bias off, “H”: bias on
83	EQ-H/N	O	Normal/high speed selection signal output to the HA12215F (IC301) “L”: normal speed, “H”: high speed
84	PB-A/B	O	Deck-A/B selection signal output to the HA12215F (IC301) “L”: deck-A, “H”: deck-B
85	ALC	O	Automatic limiter control signal output to the HA12215F (IC301) “L”: limiter on
86	B-PLAY-SW	I	Detection signal input from the deck- B play detect switch (S1002) “H”: deck-B play
87	A-PLAY-SW	I	Detection signal input from the deck- A play detect switch (S1001) “H”: deck-A play
88	A-HALF	I	Detection signal input from the deck-A cassette detect switch (S1003) “L”: no cassette, “H”: cassette in
89	B-HALF	I	Detection signal input from the deck-B half detect switch (S1006)
90	B-SHUT	I	Shut off detection signal input from the deck-B side reel pulse detector (IC1002)
91	A-SHUT	I	Shut off detection signal input from the deck-A side reel pulse detector (IC1001)
92	SOFT-TEST	O	Output terminal for the software test (open)
93	HP MUTE	O	Headphone muting control signal output “L”: muting on, “H”: muting off
94	KEY/CD-ADJ	I	Setting terminal for the CD adjustment mode Not used (fixed at “L”)
95	MODEL-IN	I	Model setting terminal
96	AVSS	—	Ground terminal (for A/D conversion)
97	SPEC-IN	I	Destination setting terminal
98	VREF	I	Reference voltage (+5V) input terminal
99	AVCC	—	Power supply terminal (+5V) (for A/D conversion)
100	TC-RELAY	O	Recording/playback selection signal output to the REC/PB switch (IC602) “L”: playback, “H”: recording



**• PANEL FL BOARD IC601 TMP88CP76F-1B71 (FLUORESCENT INDICATOR TUBE DRIVER, KEY CONTROL)**

Pin No.	Pin Name	I/O	Description
1	SIRCS	I	Remote control signal input from the remote control receiver (IC702)
2	KEY POWER SAVE/DEMO	I	Power save/demonstration switch (S609 POWER SAVE/DEMO (STANDBY)) input terminal “L” is input when key pressing Remote control signal input from the remote control receiver (IC702)
3	LED SCK	O	Serial data transfer clock signal output to the LED driver (IC701)
4	KEY POWER ON/OFF	I	Power on/off switch (S608 I/⏻) input terminal “L” is input when key pressing
5	LED DAT	O	Serial data output to the LED driver (IC701)
6	LED LATCH	O	Serial data latch pulse signal output to the LED driver (IC701)
7	LED SEL	O	LED selection signal output
8	WAKE UP	O	Wakeup control signal output to the system controller (IC501) “L” active
9	VOL A	I	Jog dial pulse input from the rotary encoder (S736 VOLUME) (A phase input)
10	VOL B	I	Jog dial pulse input from the rotary encoder (S736 VOLUME) (B phase input)
11	KEY 0	I	Key input terminal (A/D input) S601 to S607, S727 to S732 (DISPLAY, SPECTRUM ANALYZER, TIMER SELECT, SLEEP, c/CLOCK SET, GAME, FUNCTION, ROCK, MOVIE, REGGAE, MIC GUITAR/KARAOKE, GUITAR DISTORTION, PTY) keys input (S732 PTY key: used for the AEP and UK models)
12	KEY 1	I	Key input terminal (A/D input) S621 to S627, S743 to S750 (▷, ◁, ■, ◀◀ AMS ▶▶▶ ◀◀/▶▶, DOLBY NR, DIRECTION, FLASH, EDIT, NON-STOP, DISC1/2/3/4/5) keys input
13	KEY 2	I	Key input terminal (A/D input) S615 to S619, S716 to S726 (◁, ▷, ■, ◀◀ AMS ▶▶▶ ◀◀/▶▶, GUITAR, JAZZ, SAMBA, DANCE, TANGO, SALSA, GAME, ◀, ▲, ▼, ▶) keys input
14	KEY 3	I	Key input terminal (A/D input) S701 to S710, S712 to S715, S741 (TUNER MEMORY, ENTER/TEXT, −, TUNER/BAND, +, STEREO/MONO, TUNING MODE, ENTER, P.FILE, FLAT, SURROUND, GROOVE, SUPER WOOFER, SUPER WOOFER MODE, LOOP) keys input
15	KEY 4	I	Key input terminal (A/D input) S611 to S614, S751 to S757 (■, ● REC, H SPEED DUB, CD SYNC, ▷■, ■, ◀◀, ▶▶, DISC SKIP, REPEAT, PLAY MODE) keys input
16	GUITAR DISTORTION	O	Distortion on/off control signal output
17	BPF 0	I	Spectrum analyzer drive (super low frequency) signal input from the spectrum analyzer band-pass filter (IC602) (for 40 Hz)
18	BPF 1	I	Spectrum analyzer drive (low frequency) signal input from the spectrum analyzer band-pass filter (IC602) (for 100 Hz)
19	BPF 2	I	Spectrum analyzer drive (low and middle frequency) signal input from the spectrum analyzer band-pass filter (IC602) (for 400 Hz)
20	BPF 3	I	Spectrum analyzer drive (middle and high frequency) signal input from the spectrum analyzer band-pass filter (IC602) (for 2 kHz)
21	BPF 4	I	Spectrum analyzer drive (high frequency) signal input from the spectrum analyzer band-pass filter (IC602) (for 6 kHz)
22	ALL BAND	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (IC602) (for VACS, non-stop signal)
23	VSS	—	Ground terminal
24	VASS	—	Ground terminal (for A/D conversion)
25	VAREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
26	VDD	—	Power supply terminal (+5V)
27, 28	GR-16, GR-15	O	Grid drive signal output to the fluorescent indicator tube (FL601)
29 to 40	GR-14 to GR-3	O	Grid drive signal output to the fluorescent indicator tube (FL601)
41	VDD VFT	—	Power supply terminal (+5V)
42	GR-2	O	Grid drive signal output to the fluorescent indicator tube (FL601)



## HCD-XG60/XG500

Pin No.	Pin Name	I/O	Description
43	GR-1	O	Grid drive signal output to the fluorescent indicator tube (FL601)
44 to 66	SEG-1 to SEG-23	O	Segment drive signal output to the fluorescent indicator tube (FL601)
67	LED STANDBY	O	LED drive signal output of the I/⓪ indicator (D601) “H”: LED on
68	VKK	—	Power supply terminal (–35V) (for fluorescent indicator tube drive)
69	VDD	—	Power supply terminal (+5V)
70	XIN	I	System clock input terminal (12.5 MHz)
71	VSS	—	Ground terminal
72	XOUT	O	System clock output terminal (12.5 MHz)
73	<u>RESET</u>	I	System reset signal input from the reset signal generator (IC801) “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
74	JOG A	I	Jog dial pulse input from the rotary encoder (S763 JOG DIAL) (A phase input)
75	JOG B	I	Jog dial pulse input from the rotary encoder (S763 JOG DIAL) (B phase input)
76	TEST	I	Connected to ground
77	—	—	Not used (open)
78	I2C DATA	I/O	Communication data bus with the system controller (IC501)
79	I2C CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the system controller (IC501)
80	D-SW	I	CD door open/close detection switch (S742) input terminal “L”: close, “H”: open



## SECTION 8 EXPLODED VIEWS

## NOTE:

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

- Color Indication of Appearance Parts

Example:

KNOB, BALANCE (WHITE) . . . (RED)

↑                      ↑  
Parts Color    Cabinet's Color

- Abbreviation

AR : Argentina model

EA : Saudi Arabia model

CND : Canadian model

MX : Mexican model

E2 : 120 V AC area in E model

SP : Singapore model

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

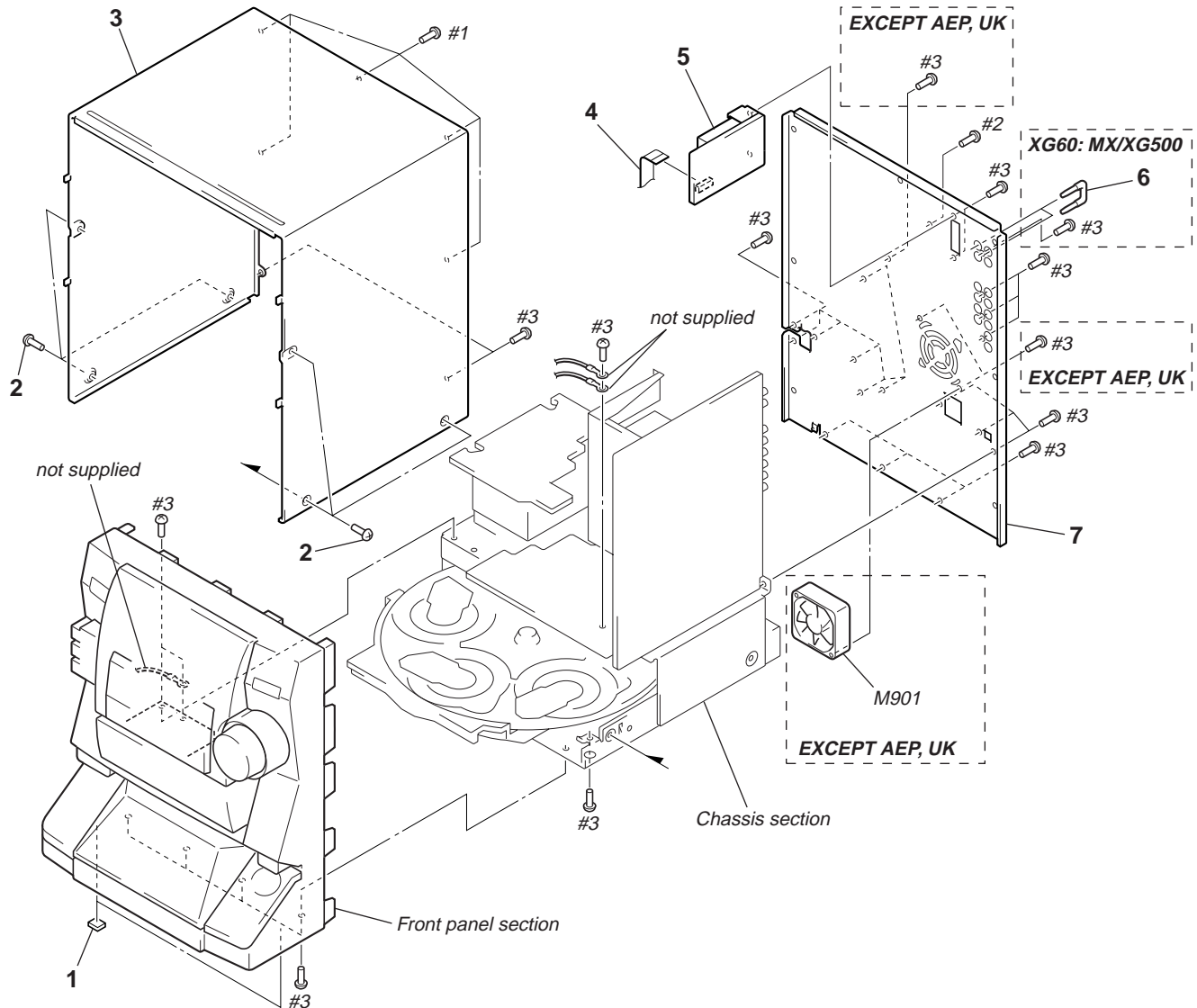
- The mechanical parts with no reference number in the exploded views are not supplied.

- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

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

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

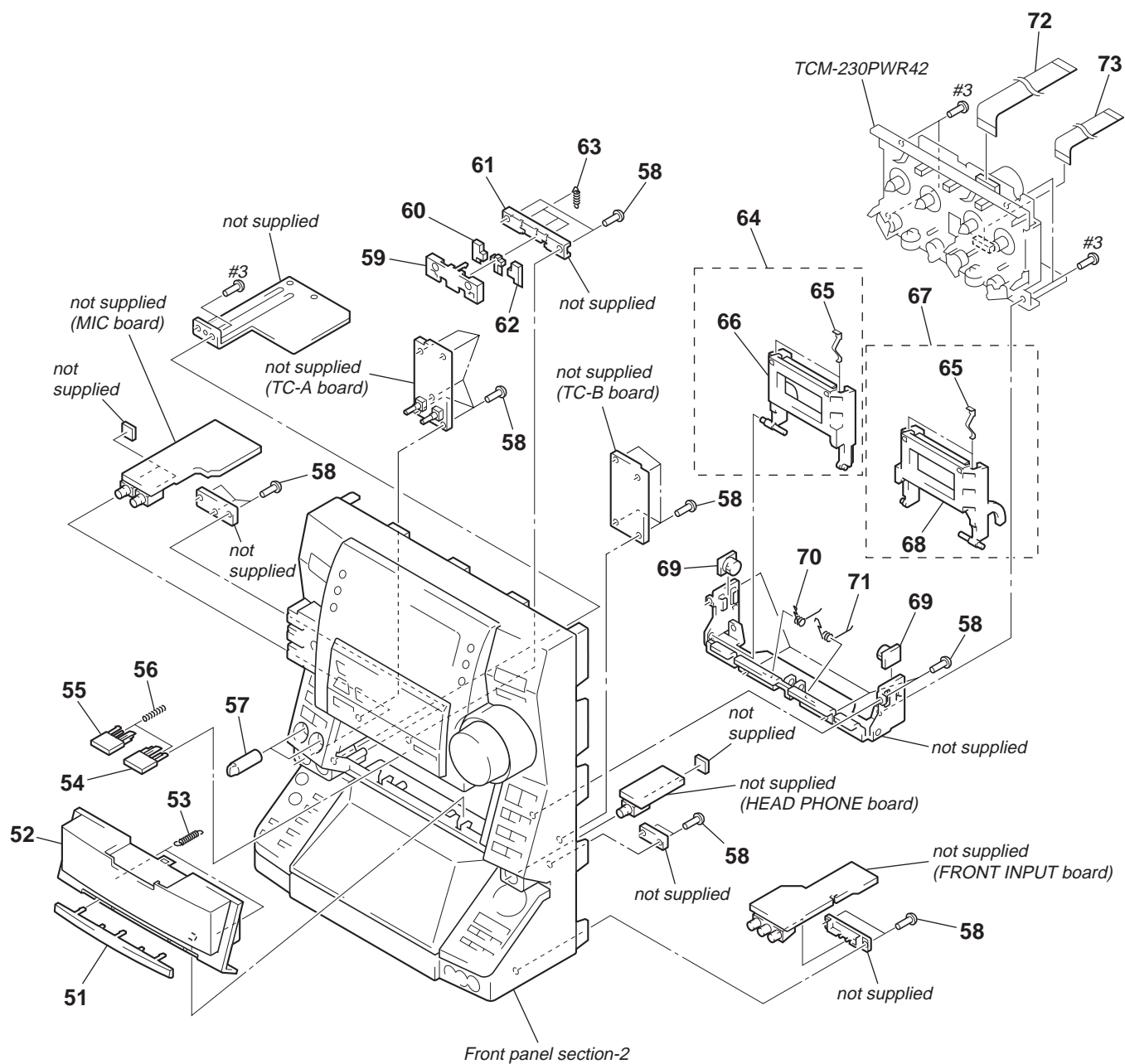
### 8-1. CASE, BACK PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-948-236-21	CUSHION (107)		5	1-693-490-11	TUNER PACK (FM/AM TUNER UNIT) (AEP, UK)	
2	3-363-099-01	SCREW (CASE 3 TP2)		6	1-535-706-21	PLUG, JUMPER (XG60: MX/XG500)	
* 3	4-214-777-12	CASE		7	4-232-087-01	PANEL, BACK (US)	
4	1-769-977-11	WIRE (FLAT TYPE) (13 CORE)	(EXCEPT AEP, UK)	7	4-232-087-11	PANEL, BACK (AEP, UK)	
4	1-773-009-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)		7	4-232-087-21	PANEL, BACK (E2, AR)	
5	1-693-481-11	TUNER PACK (FM/AM TUNER UNIT) (US)		7	4-232-087-31	PANEL, BACK (SP)	
5	1-693-484-11	TUNER PACK (FM/AM TUNER UNIT) (E2)		7	4-232-087-41	PANEL, BACK (MX)	
5	1-693-486-11	TUNER PACK (FM/AM TUNER UNIT) (CND)		7	4-232-087-51	PANEL, BACK (EA)	
5	1-693-488-11	TUNER PACK (FM/AM TUNER UNIT) (EA, SP, MX, AR)		7	4-232-087-61	PANEL, BACK (CND)	
				M901	1-763-072-11	FAN, D. C. (EXCEPT AEP, UK)	



## 8-2. FRONT PANEL SECTION-1

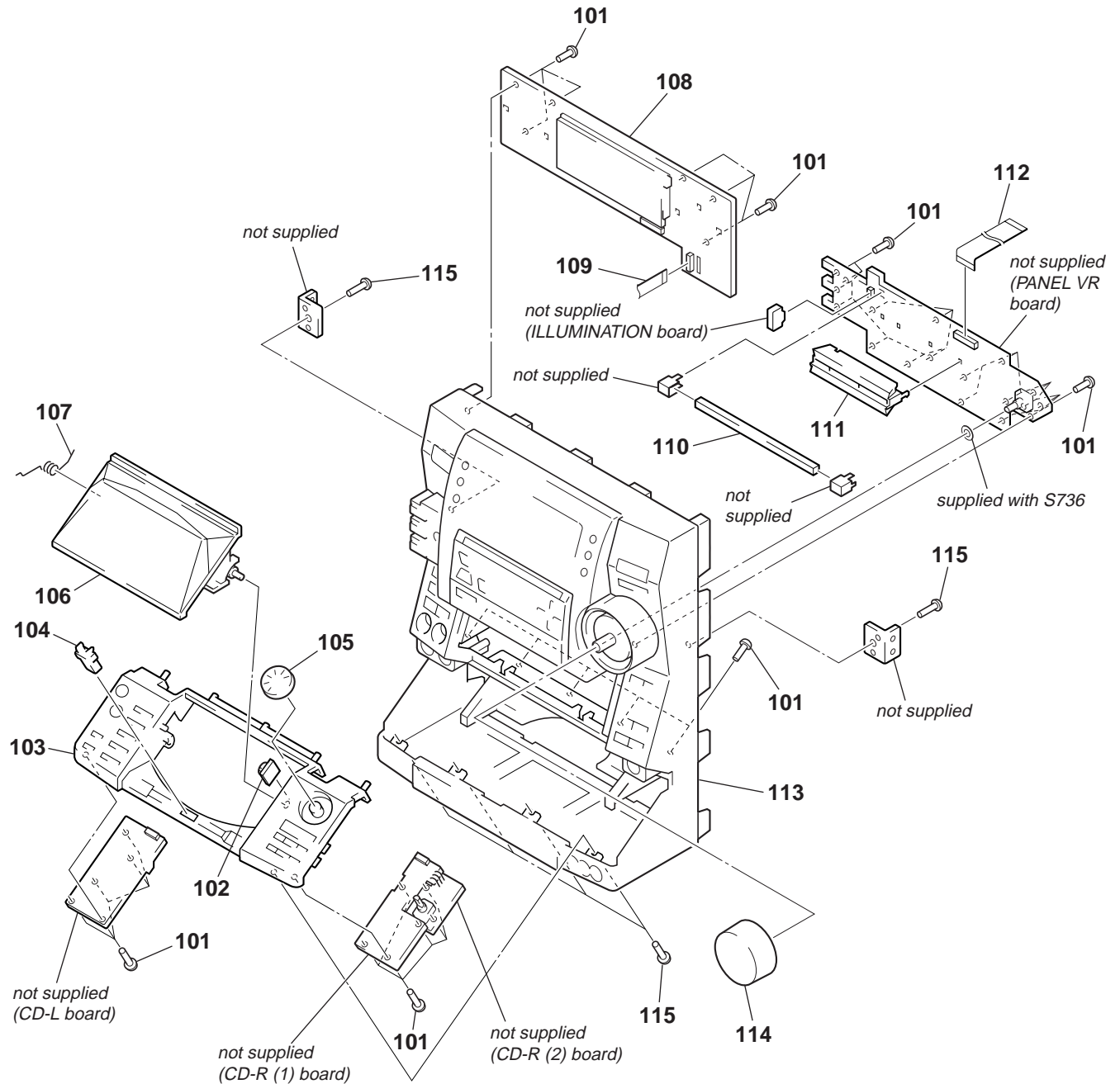


Front panel section-2

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-232-080-01	COVER (TC)		63	4-226-889-01	SPRING (LEVER)	
52	X-4953-376-1	LID (TC) ASSY		64	X-4952-464-1	HOLDER (DECK-A) ASSY	
53	4-232-085-01	SPRING (TC-LID)		65	4-959-229-11	DETENT, CASSETTE	
54	4-232-070-01	KNOB (TC-B)		66	4-225-509-01	HOLDER (DECK-A)	
55	4-232-069-01	KNOB (TC-A)		67	X-4952-465-1	HOLDER (DECK-B) ASSY	
56	4-226-537-01	SPRING (TC EJECT), COIL		68	4-225-510-01	HOLDER (DECK-B)	
57	4-232-067-01	KNOB (MIC)		69	4-224-104-11	DAMPER	
58	4-951-620-01	SCREW (2.6X8), +BVTP		70	4-235-715-01	SPRING (TC-A)	
59	4-226-883-01	COVER (EJECT)		71	4-235-716-01	SPRING (TC-B)	
60	4-226-880-01	LEVER (EJECT-A)		72	1-773-056-11	WIRE (FLAT TYPE) (17 CORE)	
61	4-226-882-01	LEVER (EJECT-C)		73	1-773-032-11	WIRE (FLAT TYPE) (15 CORE)	
62	4-226-881-01	LEVER (EJECT-B)					



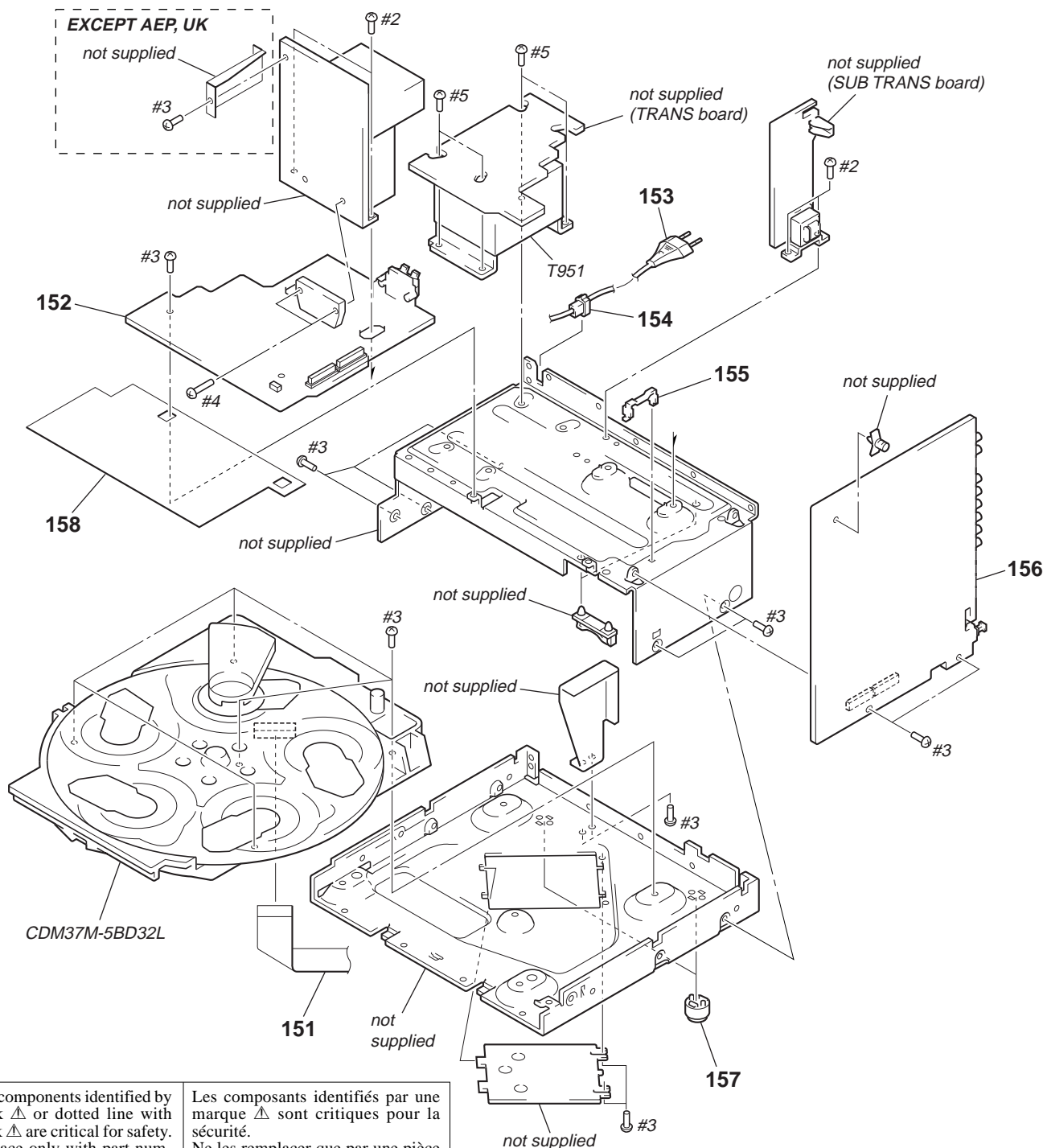
## 8-3. FRONT PANEL SECTION-2





Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	4-951-620-01	SCREW (2.6X8), +BVTP		110	4-232-072-01	INDICATOR (ILLUMI)	
102	4-224-104-11	DAMPER		111	4-232-078-01	HOLDER (LED)	
103	X-4953-374-1	PANEL (CD) ASSY, SUB		112	1-773-150-11	WIRE (FLAT TYPE) (21 CORE)	
104	4-040-472-01	LATCH, D. C.		113	X-4953-363-1	PANEL ASSY, FRONT (US, CND)	
105	4-232-068-01	KNOB (CD)		113	X-4953-364-1	PANEL ASSY, FRONT (AEP, UK)	
106	X-4953-377-1	LID (CD) ASSY		113	X-4953-365-1	PANEL ASSY, FRONT (XG60)	
107	4-232-086-01	SPRING (CD)		114	4-232-066-01	KNOB (VOL)	
108	A-4475-540-A	PANEL FL BOARD, COMPLETE		115	4-951-620-11	SCREW (2.6X10), +BVTP	
109	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)					



## 8-4. CHASSIS SECTION



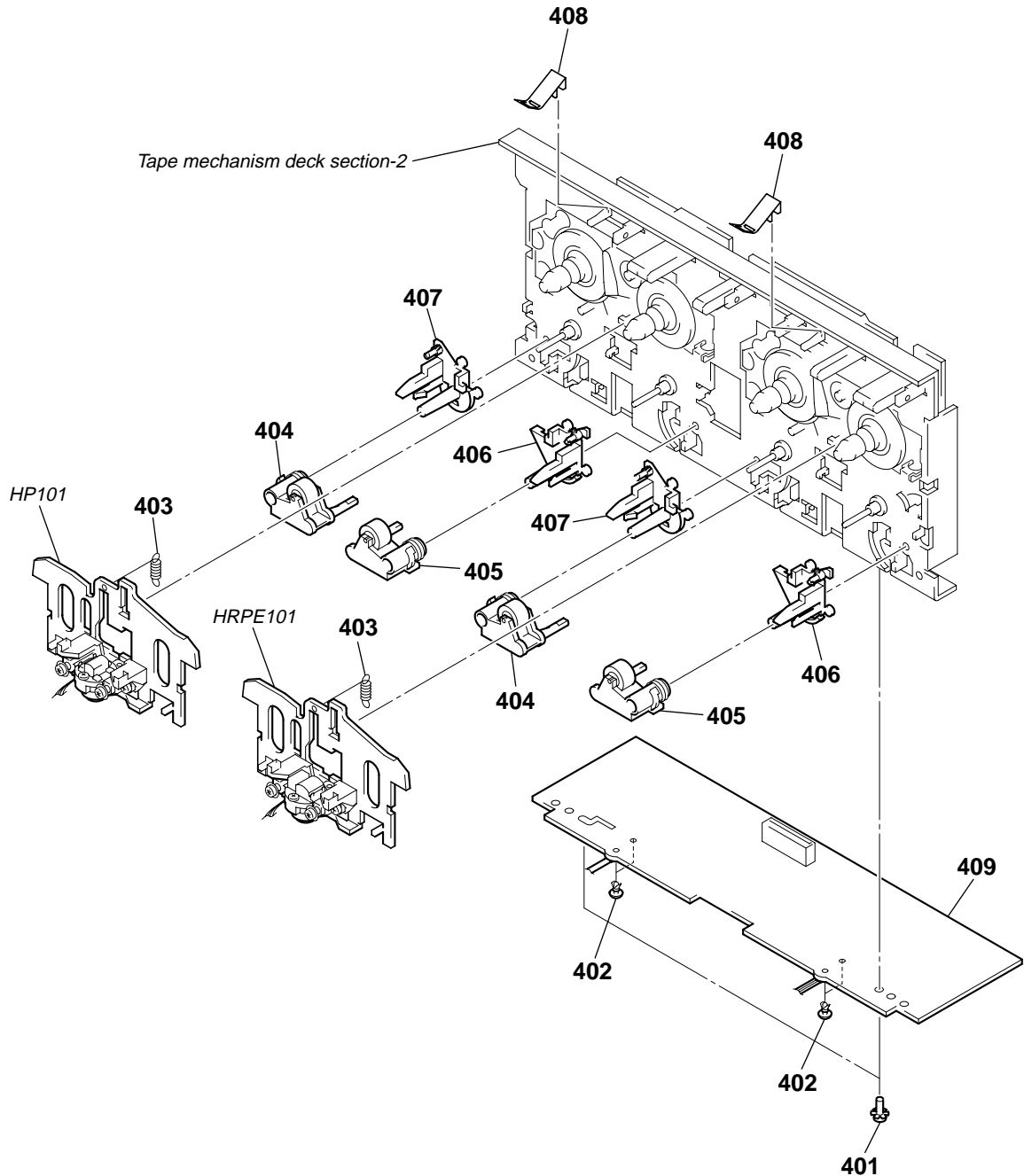
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	1-790-287-11	WIRE (FLAT TYPE) (19 CORE)		* 155	4-988-533-01	HOLDER, PWB	
152	A-4475-515-A	PA BOARD, COMPLETE (E2, MX, AR)		156	A-4475-519-A	MAIN BOARD, COMPLETE (E2, AR)	
152	A-4475-555-A	PA BOARD, COMPLETE (US, CND)		156	A-4475-560-A	MAIN BOARD, COMPLETE (US, CND)	
152	A-4475-576-A	PA BOARD, COMPLETE (AEP, UK)		156	A-4475-580-A	MAIN BOARD, COMPLETE (AEP, UK)	
152	A-4476-037-A	PA BOARD, COMPLETE (EA, SP)		156	A-4476-034-A	MAIN BOARD, COMPLETE (EA)	
△ 153	1-575-653-11	CORD, POWER (MX)		156	A-4476-039-A	MAIN BOARD, COMPLETE (SP)	
△ 153	1-777-071-81	CORD, POWER (AEP, UK, EA, SP)		156	A-4476-043-A	MAIN BOARD, COMPLETE (MX)	
△ 153	1-783-820-11	CORD, POWER (US, CND)		157	X-4941-228-1	FOOT (F22125H-M)	
△ 153	1-783-941-12	CORD, POWER (AR)		158	4-235-701-01	COVER DUST	
△ 153	1-791-901-11	CORD, POWER (E2)		△ T951	1-433-606-11	TRANSFORMER, POWER (XG60)	
154	3-703-244-00	BUSHING (FBS001), CORD (XG500)		△ T951	1-435-797-11	TRANSFORMER, POWER (US, CND)	
154	4-966-266-01	BUSHING (S) (FBS002), CORD (XG60)		△ T951	1-435-798-11	TRANSFORMER, POWER (AEP, UK)	



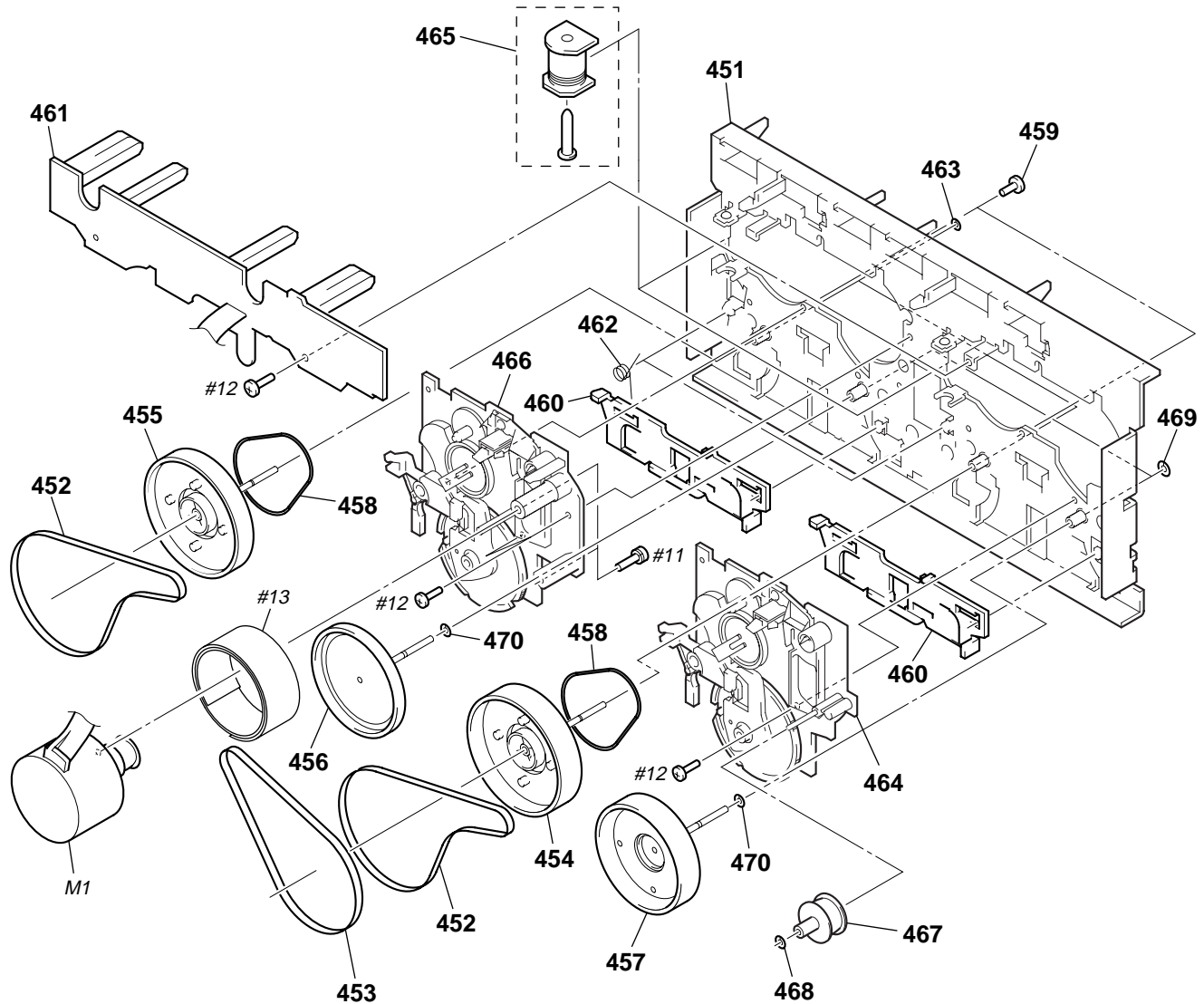
## 8-5. TAPE MECHANISM DECK SECTION-1 (TCM-230PWR42)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
401	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT		407	3-017-366-01	BASE (PINCH LEVER REV)	
402	3-911-116-42	RIVET, PUSH		408	3-016-567-02	SPRING (CASSETTE), LEAF	
403	3-016-574-01	SPRING (HEAD), TENSION		409	1-675-753-24	AUDIO BOARD	
404	X-3374-156-5	PINCH LEVER (REV) ASSY		HP101	A-2004-778-A	BASE (A) ASSY, HEAD	
405	X-3374-155-5	PINCH LEVER (FWD) ASSY		HRPE101A	A-2004-779-A	BASE (B) ASSY, HEAD	
406	3-017-365-01	BASE (PINCH LEVER FWD)					



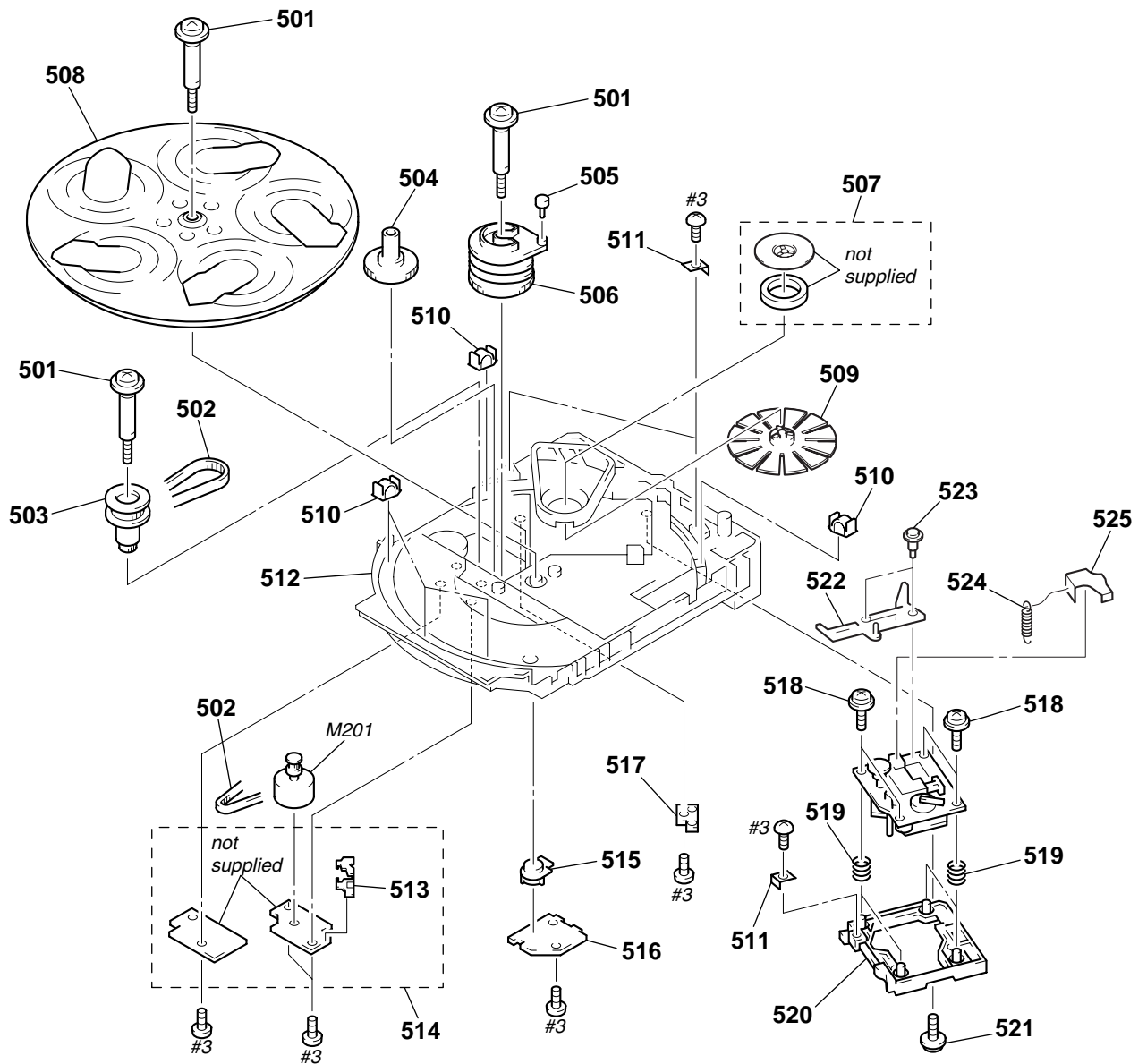
## 8-6. TAPE MECHANISM DECK SECTION-2 (TCM-230PWR42)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
451	X-4952-881-1	CHASSIS ASSY, MAIN		462	4-228-450-01	SPRING (REVERSE SLIDER), TORSION	
452	3-041-946-01	BELT (CAPSTAN B)		463	3-019-208-01	WASHER, STOPPER	
453	4-227-239-01	BELT (CAPSTAN C)		464	A-2004-795-A	CHASSIS (A) ASSY, SUB	
454	X-3378-247-1	FLYWHEEL (A-FWD) ASSY		465	1-454-887-21	SOLENOID, PLUNGER	
455	X-3378-249-1	FLYWHEEL (B-FWD) ASSY		466	A-2004-796-A	CHASSIS (B) ASSY, SUB	
456	X-3378-250-1	FLYWHEEL (B-REV) ASSY		467	3-040-580-11	PULLEY (TENSION)	
457	X-3378-248-1	FLYWHEEL (A-REV) ASSY		468	3-017-407-01	WASHER (FR LEVER), STOPPER	
458	3-041-947-01	BELT (FR)		469	3-359-464-41	WASHER (CAPSTAN)	
459	3-703-454-21	SCREW (1.7X6), TAPPING		470	3-359-464-11	WASHER (CAPSTAN)	
460	3-016-566-01	SLIDER, REVERSE		M1	X-3378-246-1	MOTOR ASSY (CAPSTAN) (TAPE)	
461	A-2007-852-A	LEAF SW BOARD, COMPLETE					



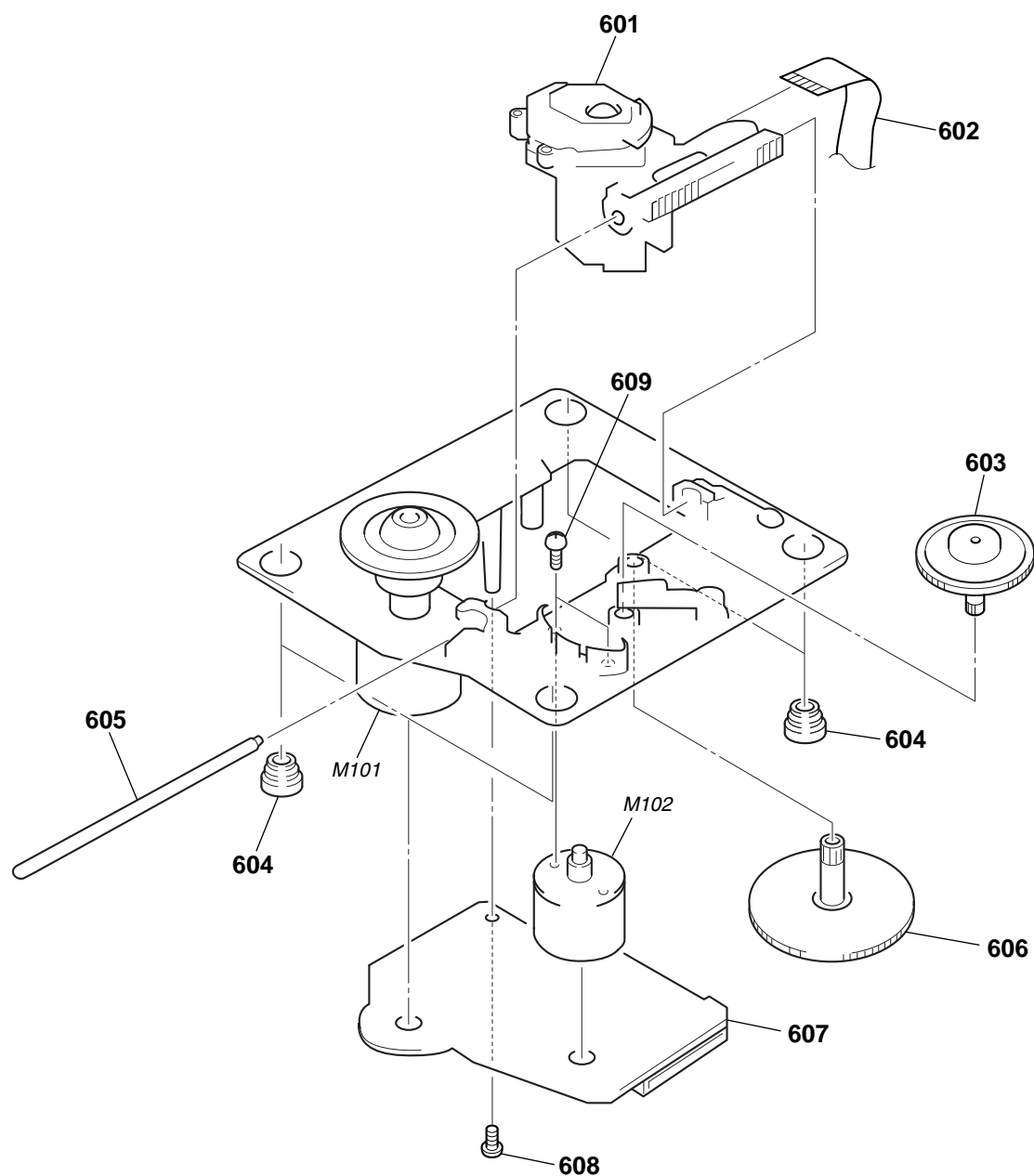
# 8-7. CD MECHANISM DECK SECTION (CDM37M-5BD32L)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501	4-987-976-01	SCREW, STEP		* 514	A-4673-765-A	CD MOTOR BOARD, COMPLETE	
502	4-944-490-01	BELT (TIMING)		515	4-978-426-01	INDICATOR (NO.)	
503	A-4660-978-A	GEAR (PULLEY) ASSY		* 516	1-659-059-13	LED BOARD	
504	4-978-421-01	GEAR (MID)		* 517	1-659-058-13	TABLE SENSOR BOARD	
505	4-978-425-01	ROLLER (CAM)		518	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
506	4-978-420-01	CAM (HOLDER)		519	4-958-593-01	SPRING (BU), COMPRESSION	
507	1-452-925-21	MAGNET ASSY		* 520	4-978-419-01	HOLDER (BU-5)	
508	4-978-417-01	TABLE, DISC		521	4-998-716-01	SCREW, BU FITTING	
509	4-993-142-03	PULLEY (L), PRESS		522	4-989-493-01	SLIDER (37)	
510	X-4947-960-1	ROLLER ASSY		523	4-989-494-01	SCREW (SLIDER), STEP	
* 511	4-978-583-01	BRACKET (BU)		524	4-989-819-21	SPRING, TENSION	
512	4-978-418-01	CHASSIS		525	4-989-491-01	COVER, LENS	
* 513	4-980-385-01	HOLDER (SW)		M201	A-4660-977-A	MOTOR ASSY (TABLE)	



8-8. BASE UNIT SECTION  
(BU-5BD32L)



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
$\triangle$ 601	8-820-020-02	OPTICAL PICK-UP KSS-213D/Q-RP		607	A-4724-486-A	BD BOARD, COMPLETE	
602	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)		608	4-951-620-01	SCREW (2.6X8), +BVTP	
603	4-917-567-21	GEAR (M)		609	3-713-786-51	SCREW +P 2X3	
604	4-951-940-01	INSULATOR (BU)		M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
605	4-917-565-01	SHAFT, SLED		M102	X-4917-504-1	MOTOR ASSY (SLED)	
606	4-917-564-01	GEAR (P), FLATNESS					



## SECTION 9 ELECTRICAL PARTS LIST

### AUDIO

**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
- Abbreviation  
AR : Argentina model      E2 : 120 V AC area in E model      MX : Mexican model  
CND : Canadian model      EA : Saudi Arabia model      SP : Singapore model

- 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:  $\mu$ , for example:  
uA. . :  $\mu$ A. .      uPA. . :  $\mu$ PA. .  
uPB. . :  $\mu$ PB. .      uPC. . :  $\mu$ PC. .  
uPD. . :  $\mu$ PD. .
- **CAPACITORS**  
uF:  $\mu$ F
- **COILS**  
uH:  $\mu$ H

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

Les composants identifiés par une marque  $\Delta$  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			
	1-675-753-24	AUDIO BOARD *****							< IC >				
		< CAPACITOR >					IC601	8-759-111-44	IC uPC4570C-1				
							IC602	8-759-143-54	IC uPC1330HA				
							IC611	8-759-111-44	IC uPC4570C-1				
									< COIL >				
C301	1-162-289-31	CERAMIC	390PF	10%	50V		L331	1-410-780-11	INDUCTOR	27mH			
C302	1-126-968-11	ELECT	100uF	20%	6.3V		L431	1-410-780-11	INDUCTOR	27mH			
C303	1-162-282-31	CERAMIC	100PF	10%	50V				< TRANSISTOR >				
C304	1-130-483-00	MYLAR	0.01uF	5%	50V		Q621	8-729-142-46	TRANSISTOR	2SC2001-LK			
C305	1-128-551-11	ELECT	22uF	20%	25V		Q622	8-729-142-46	TRANSISTOR	2SC2001-LK			
							Q623	8-729-801-93	TRANSISTOR	2SD1387-3			
C311	1-162-289-31	CERAMIC	390PF	10%	50V				< RESISTOR >				
C313	1-162-282-31	CERAMIC	100PF	10%	50V		R301	1-247-881-00	CARBON	120K	5%	1/4W	
C314	1-130-487-00	MYLAR	0.022uF	5%	50V		R302	1-249-409-11	CARBON	220	5%	1/4W	
C315	1-126-233-11	ELECT	22uF	20%	50V		R303	1-249-433-11	CARBON	22K	5%	1/4W	
C331	1-137-427-11	MYLAR	120PF	5%	50V		R304	1-247-889-00	CARBON	270K	5%	1/4W	
							R305	1-247-858-11	CARBON	13K	5%	1/4W	
C332	1-162-288-31	CERAMIC	330PF	10%	50V								
C333	1-162-209-31	CERAMIC	27PF	5%	50V		R311	1-247-881-00	CARBON	120K	5%	1/4W	
C401	1-162-289-31	CERAMIC	390PF	10%	50V		R312	1-247-807-31	CARBON	100	5%	1/4W	
C402	1-126-968-11	ELECT	100uF	20%	6.3V		R314	1-247-882-11	CARBON	130K	5%	1/4W	
C403	1-162-282-31	CERAMIC	100PF	10%	50V		R315	1-247-850-11	CARBON	6.2K	5%	1/4W	
							R331	1-249-430-11	CARBON	12K	5%	1/4W	
C404	1-130-483-00	MYLAR	0.01uF	5%	50V								
C405	1-128-551-11	ELECT	22uF	20%	25V		R401	1-247-881-00	CARBON	120K	5%	1/4W	
C411	1-162-289-31	CERAMIC	390PF	10%	50V		R402	1-249-409-11	CARBON	220	5%	1/4W	
C413	1-162-282-31	CERAMIC	100PF	10%	50V		R403	1-249-433-11	CARBON	22K	5%	1/4W	
C414	1-130-487-00	MYLAR	0.022uF	5%	50V		R404	1-247-889-00	CARBON	270K	5%	1/4W	
							R405	1-247-858-11	CARBON	13K	5%	1/4W	
C415	1-126-233-11	ELECT	22uF	20%	50V								
C431	1-137-427-11	MYLAR	120PF	5%	50V		R411	1-247-881-00	CARBON	120K	5%	1/4W	
C432	1-162-288-31	CERAMIC	330PF	10%	50V		R412	1-247-807-31	CARBON	100	5%	1/4W	
C433	1-162-209-31	CERAMIC	27PF	5%	50V		R414	1-247-882-11	CARBON	130K	5%	1/4W	
C601	1-104-396-11	ELECT	10uF	20%	16V		R415	1-247-850-11	CARBON	6.2K	5%	1/4W	
							R431	1-249-430-11	CARBON	12K	5%	1/4W	
C602	1-104-396-11	ELECT	10uF	20%	16V								
C611	1-104-396-11	ELECT	10uF	20%	16V		R481	1-249-416-11	CARBON	820	5%	1/4W	
C612	1-104-396-11	ELECT	10uF	20%	16V		R482	1-249-419-11	CARBON	1.5K	5%	1/4W	
C621	1-137-150-11	FILM	0.01uF	5%	100V		R491	1-249-416-11	CARBON	820	5%	1/4W	
C622	1-126-961-11	ELECT	2.2uF	20%	50V		R492	1-249-419-11	CARBON	1.5K	5%	1/4W	
							R601	1-249-409-11	CARBON	220	5%	1/4W	
C623	1-136-155-00	FILM	0.015uF	5%	50V								
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V		R602	1-249-409-11	CARBON	220	5%	1/4W	
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V		R608	1-249-409-11	CARBON	220	5%	1/4W	
C627	1-124-903-11	ELECT	1uF	20%	50V								
C628	1-136-153-00	FILM	0.01uF	5%	50V								
C642	1-104-664-11	ELECT	47uF	20%	16V								
		< CONNECTOR >											
CN601	1-695-338-11	PIN, CONNECTOR (PC BOARD) 15P											



HCD-XG60/XG500

AUDIO

BD

Ref. No.	Part No.	Description	Remark			
R609	1-249-433-11	CARBON	22K	5%	1/4W	
R611	1-249-409-11	CARBON	220	5%	1/4W	
R612	1-249-409-11	CARBON	220	5%	1/4W	
△ R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
△ R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
R623	1-249-432-11	CARBON	18K	5%	1/4W	
R624	1-249-432-11	CARBON	18K	5%	1/4W	
R625	1-249-429-11	CARBON	10K	5%	1/4W	
< VARIABLE RESISTOR >						
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV341	1-241-768-11	RES, ADJ, CARBON 220K				
RV441	1-241-768-11	RES, ADJ, CARBON 220K				
< TRANSFORMER >						
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION				
*****						
A-4724-486-A BD BOARD, COMPLETE						
*****						
< CAPACITOR >						
C101	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C102	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C103	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C104	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C108	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C109	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V	
C110	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V	
C111	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C112	1-163-038-11	CERAMIC CHIP	0.1uF		25V	
C113	1-163-038-11	CERAMIC CHIP	0.1uF		25V	
C114	1-163-038-11	CERAMIC CHIP	0.1uF		25V	
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V	
C116	1-126-607-11	ELECT CHIP	47uF	20%	4V	
C117	1-126-209-11	ELECT CHIP	100uF	20%	4V	
C118	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C119	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C121	1-163-038-11	CERAMIC CHIP	0.1uF		25V	
C122	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C123	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	
C124	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C125	1-163-038-11	CERAMIC CHIP	0.1uF		25V	
C126	1-163-038-11	CERAMIC CHIP	0.1uF		25V	
C127	1-128-065-11	ELECT CHIP	68uF	20%	10V	
C128	1-163-038-11	CERAMIC CHIP	0.1uF		25V	
C129	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C130	1-164-346-11	CERAMIC CHIP	1uF		16V	
C131	1-124-779-00	ELECT CHIP	10uF	20%	16V	
C133	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V	
C140	1-164-346-11	CERAMIC CHIP	1uF		16V	
C141	1-164-346-11	CERAMIC CHIP	1uF		16V	
C143	1-163-038-11	CERAMIC CHIP	0.1uF		25V	
C151	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C153	1-163-038-11	CERAMIC CHIP	0.1uF		25V	
C154	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V	
C156	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	

Ref. No.	Part No.	Description	Remark			
C157	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C159	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	
C161	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C162	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	
C163	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C165	1-163-038-11	CERAMIC CHIP	0.1uF		25V	
C167	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C168	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C171	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C172	1-163-123-00	CERAMIC CHIP	180PF	5%	50V	
C181	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C182	1-163-123-00	CERAMIC CHIP	180PF	5%	50V	
< CONNECTOR >						
CN101	1-778-874-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P				
CN102	1-777-937-11	CONNECTOR, FFC/FPC 16P				
< FERRITE BEAD >						
FB101	1-500-445-21	FERRITE	0uH			
FB103	1-500-445-21	FERRITE	0uH			
< IC >						
IC101	8-752-386-85	IC CXD2587Q				
IC102	8-759-549-28	IC BA5974FP-E2				
IC103	8-752-085-51	IC CXA2568M-T6				
< TRANSISTOR >						
Q101	8-729-010-08	TRANSISTOR	MSB710-R			
< RESISTOR >						
R101	1-216-077-00	RES-CHIP	15K	5%	1/10W	
R102	1-216-097-11	RES-CHIP	100K	5%	1/10W	
R103	1-216-077-00	RES-CHIP	15K	5%	1/10W	
R104	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R105	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R106	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R107	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R108	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R109	1-216-121-11	RES-CHIP	1M	5%	1/10W	
R110	1-216-025-11	RES-CHIP	100	5%	1/10W	
R111	1-216-121-11	RES-CHIP	1M	5%	1/10W	
R113	1-216-121-11	RES-CHIP	1M	5%	1/10W	
R114	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R116	1-216-001-00	METAL CHIP	10	5%	1/10W	
R117	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R119	1-216-041-00	METAL CHIP	470	5%	1/10W	
R123	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R124	1-216-097-11	RES-CHIP	100K	5%	1/10W	
R131	1-216-033-00	METAL CHIP	220	5%	1/10W	
R143	1-216-103-00	METAL CHIP	180K	5%	1/10W	
R144	1-216-103-00	METAL CHIP	180K	5%	1/10W	
R147	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R148	1-216-001-00	METAL CHIP	10	5%	1/10W	
R149	1-216-001-00	METAL CHIP	10	5%	1/10W	
R158	1-216-111-00	METAL CHIP	390K	5%	1/10W	
R159	1-216-101-00	METAL CHIP	150K	5%	1/10W	
R161	1-216-308-00	METAL CHIP	4.7	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.



						BD	CD MOTOR		CD-L		CD-R (1)	
Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description	Remark		
R162	1-216-101-00	METAL CHIP	150K	5%	1/10W			< LED >				
R171	1-216-078-00	RES-CHIP	16K	5%	1/10W							
R172	1-216-073-00	METAL CHIP	10K	5%	1/10W		D741	8-719-058-04	LED SEL5223S-TP15 (NON-STOP)			
								< RESISTOR >				
R173	1-216-077-00	RES-CHIP	15K	5%	1/10W		R741	1-249-407-11	CARBON	150	5%	1/4W
R181	1-216-078-00	RES-CHIP	16K	5%	1/10W		R742	1-249-438-11	CARBON	56K	5%	1/4W
R182	1-216-073-00	METAL CHIP	10K	5%	1/10W		R743	1-249-420-11	CARBON	1.8K	5%	1/4W
R183	1-216-077-00	RES-CHIP	15K	5%	1/10W		R744	1-249-422-11	CARBON	2.7K	5%	1/4W
		< NETWORK RESITOR >					R745	1-247-843-11	CARBON	3.3K	5%	1/4W
RN101	1-233-576-11	RES, CHIP NETWORK 100										
RN102	1-233-576-11	RES, CHIP NETWORK 100					R746	1-249-425-11	CARBON	4.7K	5%	1/4W
		< SWITCH >					R747	1-249-427-11	CARBON	6.8K	5%	1/4W
							R748	1-249-429-11	CARBON	10K	5%	1/4W
S101	1-572-085-11	SWITCH, LEAF (LIMIT)					R749	1-249-431-11	CARBON	15K	5%	1/4W
		< VIBRATOR >					R750	1-249-434-11	CARBON	27K	5%	1/4W
									< SWITCH >			
X101	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)					S741	1-762-875-21	SWITCH, KEYBOARD (LOOP)			
*****							S742	1-762-587-11	SWITCH, PUSH (1 KEY)			
									(LID (CD) OPEN/CLOSE)			
*	A-4673-765-A	CD MOTOR BOARD, COMPLETE					S743	1-762-875-21	SWITCH, KEYBOARD (FLASH)			
		*****					S744	1-762-875-21	SWITCH, KEYBOARD (EDIT)			
							S745	1-762-875-21	SWITCH, KEYBOARD (NON-STOP)			
*	4-980-385-01	HOLDER (SW)										
		< CAPACITOR >					S746	1-762-875-21	SWITCH, KEYBOARD (DISC 1)			
							S747	1-762-875-21	SWITCH, KEYBOARD (DISC 2)			
C201	1-126-964-11	ELECT	10uF	20%	50V		S748	1-762-875-21	SWITCH, KEYBOARD (DISC 3)			
C202	1-164-159-21	CERAMIC	0.1uF		50V		S749	1-762-875-21	SWITCH, KEYBOARD (DISC 4)			
C203	1-126-964-11	ELECT	10uF	20%	50V		S750	1-762-875-21	SWITCH, KEYBOARD (DISC 5)			
		< CONNECTOR >					*****					
* CN201	1-568-947-11	PIN, CONNECTOR 9P							CD-R (1) BOARD			
									*****			
		< IC >							< CONNECTOR >			
IC201	8-759-365-94	IC TA8409S					CN703	1-785-333-11	PIN, CONNECTOR (LIGHT ANGLE) 7P			
		< COIL >							< LED >			
L201	1-408-117-00	INDUCTOR	10uH				D700	8-719-056-13	LED SML79423C-TP15 (▷◀■)			
		< RESISTOR >							< RESISTOR >			
R205	1-249-427-11	CARBON	6.8K	5%	1/4W		R751	1-249-415-11	CARBON	680	5%	1/4W
R206	1-249-425-11	CARBON	4.7K	5%	1/4W		R752	1-249-417-11	CARBON	1K	5%	1/4W
		< SWITCH >					R753	1-249-418-11	CARBON	1.2K	5%	1/4W
							R754	1-249-420-11	CARBON	1.8K	5%	1/4W
S201	1-762-587-11	SWITCH, PUSH (1 KEY) (UP)					R755	1-249-422-11	CARBON	2.7K	5%	1/4W
*****												
		CD-L BOARD					R756	1-247-843-11	CARBON	3.3K	5%	1/4W
		*****					R757	1-249-425-11	CARBON	4.7K	5%	1/4W
		< CAPACITOR >					R758	1-249-403-11	CARBON	68	5%	1/4W
C741	1-162-306-11	CERAMIC	0.01uF	30%	16V		R759	1-249-403-11	CARBON	68	5%	1/4W
		< CONNECTOR >							< SWITCH >			
CN704	1-785-332-11	PIN, CONNECTOR (LIGHT ANGLE) 6P					S751	1-762-875-21	SWITCH, KEYBOARD (▷◀■)			
							S752	1-762-875-21	SWITCH, KEYBOARD (■)			
							S753	1-762-875-21	SWITCH, KEYBOARD (◀◀)			
							S754	1-762-875-21	SWITCH, KEYBOARD (▶▶)			
							S755	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP)			
							S756	1-762-875-21	SWITCH, KEYBOARD (REPEAT)			
							S757	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE)			
							*****					



# HCD-XG60/XG500

CD-R (2)						FRONT INPUT						HEADPHONES						ILLUMINATION						LEAF SW					
Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark																
CD-R (2) BOARD							ILLUMINATION BOARD																						
*****							*****																						
< CAPACITOR >							< CAPACITOR >																						
C751	1-162-306-11	CERAMIC	0.01uF	30%	16V		C791	1-162-974-11	CERAMIC CHIP	0.01uF	50V																		
C752	1-162-306-11	CERAMIC	0.01uF	30%	16V		C792	1-162-974-11	CERAMIC CHIP	0.01uF	50V																		
< ROTARY ENCODER >							< CONNECTOR >																						
S763	1-473-393-11	ENCODER, ROTARY (JOG DIAL)					CN791	1-770-011-41	CONNECTOR, BOARD TO BOARD 4P																				
*****							< LED >																						
FRONT INPUT BOARD							D791	8-719-075-87	LED SECU3M02C (ILLUMINATION)																				
*****							*****																						
< CAPACITOR >							A-2007-852-A LEAF SW BOARD, COMPLETE																						
C801	1-162-294-31	CERAMIC	0.001uF	10%	50V		*****																						
C802	1-162-294-31	CERAMIC	0.001uF	10%	50V		< CAPACITOR >																						
C803	1-126-960-11	ELECT	1uF	20%	50V		C1001	1-107-716-11	ELECT	33uF	20%	10V																	
C811	1-162-282-31	CERAMIC	100PF	10%	50V		< CONNECTOR >																						
C812	1-164-159-21	CERAMIC	0.1uF		50V		CN1001	1-784-459-11	CONNECTOR, FFC/FPC 17P																				
< NOISE FILTER >							< DIODE >																						
FL803	1-424-228-11	FILTER, NOISE					D1001	8-719-991-33	DIODE 1SS133T-77																				
< JACK >							D1002	8-719-991-33	DIODE 1SS133T-77																				
J804	1-815-310-11	JACK 3P (GAME INPUT AUDIO/VIDEO)					< PHOTO INTERRUPTER >																						
< RESISTOR >							IC1001	8-749-014-38	PHOTO INTERRUPTER SG-264																				
R801	1-249-417-11	CARBON	1K	5%	1/4W		IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264																				
R802	1-249-437-11	CARBON	47K	5%	1/4W		< TRANSISTOR >																						
R803	1-249-417-11	CARBON	1K	5%	1/4W		Q1001	8-729-029-56	TRANSISTOR DTA144ESA																				
R804	1-249-437-11	CARBON	47K	5%	1/4W		< RESISTOR >																						
R805	1-247-804-11	CARBON	75	5%	1/4W		R907	1-249-441-11	CARBON	100K	5%	1/4W																	
*****							R1001	1-249-409-11	CARBON	220	5%	1/4W																	
HEADPHONES BOARD							R1002	1-249-409-11	CARBON	220	5%	1/4W																	
*****							R1003	1-249-414-11	CARBON	560	5%	1/4W																	
< CAPACITOR >							R1004	1-247-834-11	CARBON	1.3K	5%	1/4W																	
C891	1-162-294-31	CERAMIC	0.001uF	10%	50V		R1005	1-247-818-91	CARBON	300	5%	1/4W																	
C892	1-162-294-31	CERAMIC	0.001uF	10%	50V		R1006	1-247-864-11	CARBON	24K	5%	1/4W																	
C893	1-164-159-21	CERAMIC	0.1uF		50V		R1007	1-247-852-11	CARBON	7.5K	5%	1/4W																	
< CONNECTOR >							R1008	1-249-417-11	CARBON	1K	5%	1/4W																	
CN802	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE) 4P					< VARIABLE RESISTOR >																						
< JACK >							RV1001	1-241-785-11	RES, ADJ, CARBON 10K																				
J803	1-770-226-11	JACK (LARGE TYPE) (PHONES)					RV1002	1-241-785-11	RES, ADJ, CARBON 10K																				
< RESISTOR >							< SWITCH >																						
R810	1-247-807-31	CARBON	100	5%	1/4W		S1001	1-570-953-11	SWITCH, PUSH (1 KEY) (DECK A PLAY)																				
*****							S1002	1-570-953-11	SWITCH, PUSH (1 KEY) (DECK B PLAY)																				
							S1003	1-771-333-11	SWITCH, LEAF (DECK A HALF)																				
							S1004	1-771-205-11	SWITCH, LEAF (DECK A 120/70)																				
							S1005	1-771-205-11	SWITCH, LEAF (DECK A REC)																				



Ref. No.	Part No.	Description			Remark
C169	1-130-479-00	MYLAR	0.0047uF	5%	50V
C170	1-130-477-00	MYLAR	0.0033uF	5%	50V
C171	1-126-964-11	ELECT	10uF	20%	50V
C172	1-164-363-11	CERAMIC CHIP	560PF	5%	50V
C173	1-136-169-00	FILM	0.22uF	5%	50V
C174	1-136-169-00	FILM	0.22uF	5%	50V
C175	1-126-964-11	ELECT	10uF	20%	50V
C176	1-130-493-00	MYLAR	0.068uF	5%	50V
C177	1-130-483-00	MYLAR	0.01uF	5%	50V
C181	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C182	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C183	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C191	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C192	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C193	1-126-964-11	ELECT	10uF	20%	50V
C301	1-126-960-11	ELECT	1uF	20%	50V
C302	1-130-479-00	MYLAR	0.0047uF	5%	50V
C303	1-136-165-00	FILM	0.1uF	5%	50V
C304	1-136-165-00	FILM	0.1uF	5%	50V
C305	1-126-964-11	ELECT	10uF	20%	50V
C306	1-126-960-11	ELECT	1uF	20%	50V
C307	1-126-959-11	ELECT	0.47uF	20%	50V
C308	1-126-964-11	ELECT	10uF	20%	50V
C309	1-137-194-81	FILM	0.47uF	5%	50V
C310	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C311	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-959-11	ELECT	0.47uF	20%	50V
C313	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C314	1-126-964-11	ELECT	10uF	20%	50V
C315	1-126-963-11	ELECT	4.7uF	20%	50V
C316	1-104-664-11	ELECT	47uF	20%	16V
C317	1-104-664-11	ELECT	47uF	20%	16V
C320	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C333	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C334	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C351	1-126-960-11	ELECT	1uF	20%	50V
C352	1-130-479-00	MYLAR	0.0047uF	5%	50V
C353	1-136-165-00	FILM	0.1uF	5%	50V
C354	1-136-165-00	FILM	0.1uF	5%	50V
C355	1-126-964-11	ELECT	10uF	20%	50V
C356	1-126-960-11	ELECT	1uF	20%	50V
C357	1-126-959-11	ELECT	0.47uF	20%	50V
C358	1-126-964-11	ELECT	10uF	20%	50V
C359	1-137-194-81	FILM	0.47uF	5%	50V
C401	1-126-961-11	ELECT	2.2uF	20%	50V
C411	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C413	1-126-916-11	ELECT	1000uF	20%	6.3V
C414	1-126-916-11	ELECT	1000uF	20%	6.3V
C416	1-126-935-11	ELECT	470uF	20%	10V
C431	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C451	1-126-961-11	ELECT	2.2uF	20%	50V
C510	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C511	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C516	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C562	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C564	1-104-664-11	ELECT	47uF	20%	16V



# HCD-XG60/XG500

## MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C598	1-163-038-11	CERAMIC CHIP	0.1uF		25V	C912	1-126-916-11	ELECT	1000uF	20%	6.3V
C599	1-104-664-11	ELECT	47uF	20%	16V	C913	1-104-664-11	ELECT	47uF	20%	16V
C601	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	C914	1-126-916-11	ELECT	1000uF	20%	6.3V
C602	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C932	1-126-964-11	ELECT	10uF	20%	50V
C603	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C933	1-126-933-11	ELECT	100uF	20%	16V
C604	1-126-961-11	ELECT	2.2uF	20%	50V	C934	1-126-964-11	ELECT	10uF	20%	50V
					(XG60)	C935	1-126-767-11	ELECT	1000uF	20%	16V
C604	1-126-963-11	ELECT	4.7uF	20%	50V	C936	1-126-964-11	ELECT	10uF	20%	50V
					(XG500)	C937	1-126-933-11	ELECT	100uF	20%	16V
C605	1-130-479-00	MYLAR	0.0047uF	5%	50V	C938	1-126-933-11	ELECT	100uF	20%	16V
C606	1-130-473-00	MYLAR	0.0015uF	5%	50V						
C607	1-136-159-00	FILM	0.033uF	5%	50V	C952	1-126-943-11	ELECT	2200uF	20%	25V
					(XG60)	C953	1-126-964-11	ELECT	10uF	20%	50V
C607	1-136-165-00	FILM	0.1uF	5%	50V	C954	1-126-964-11	ELECT	10uF	20%	50V
					(XG500)	C955	1-126-935-11	ELECT	470uF	20%	10V
C608	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C961	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C609	1-126-933-11	ELECT	100uF	20%	16V						(US, CND, E)
C651	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	< CONNECTOR >					
C652	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	CN303	1-784-776-11	CONNECTOR, FFC 15P			
C653	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	CN304	1-784-778-11	CONNECTOR, FFC 17P			
C654	1-126-961-11	ELECT	2.2uF	20%	50V	CN411	1-784-780-11	CONNECTOR, FFC 19P			
					(XG60)	CN412	1-785-321-11	PIN, CONNECTOR (STRAIGHT) 9P			
C654	1-126-963-11	ELECT	4.7uF	20%	50V	CN431	1-784-774-11	CONNECTOR, FFC 13P			
					(XG500)						
C655	1-130-479-00	MYLAR	0.0047uF	5%	50V	CN441	1-563-616-11	CONNECTOR, FLEXIBLE 13P (US, CND, E)			
C656	1-130-473-00	MYLAR	0.0015uF	5%	50V	CN441	1-750-747-11	CONNECTOR, FFC/FPC 15P (AEP, UK)			
C657	1-136-159-00	FILM	0.033uF	5%	50V	CN452	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P			
					(XG60)	CN702	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
C657	1-136-165-00	FILM	0.1uF	5%	50V	CN901	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P			
					(XG500)						
C658	1-162-974-11	CERAMIC CHIP	0.01uF		50V	CN902	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P			
C659	1-126-933-11	ELECT	100uF	20%	16V	CN903	1-564-506-11	PLUG, CONNECTOR 3P (US, CND, E)			
C699	1-162-974-11	CERAMIC CHIP	0.01uF		50V	< DIODE >					
C701	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	D191	8-719-988-61	DIODE 1SS355TE-17			
C702	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	D192	8-719-988-61	DIODE 1SS355TE-17			
C703	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	D193	8-719-988-61	DIODE 1SS355TE-17			
C704	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	D194	8-719-988-61	DIODE 1SS355TE-17			
					(US, CND, AEP, UK, MX)	D501	8-719-988-61	DIODE 1SS355TE-17			
C705	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	D534	8-719-988-61	DIODE 1SS355TE-17			
					(US, CND, AEP, UK, MX)	D801	8-719-988-61	DIODE 1SS355TE-17			
C721	1-126-960-11	ELECT	1uF	20%	50V	D802	8-719-988-61	DIODE 1SS355TE-17			
C722	1-126-926-11	ELECT	1000uF	20%	10V	D803	8-719-988-61	DIODE 1SS355TE-17			
C724	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	D804	8-719-988-61	DIODE 1SS355TE-17			
C751	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	D805	8-719-988-61	DIODE 1SS355TE-17			
C752	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	D806	8-719-988-61	DIODE 1SS355TE-17			
C753	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	D807	8-719-988-61	DIODE 1SS355TE-17			
C772	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D808	8-719-210-33	DIODE EC10DS2			
C774	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D911	8-719-988-61	DIODE 1SS355TE-17			
C777	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D912	8-719-210-33	DIODE EC10DS2			
C782	1-104-664-11	ELECT	47uF	20%	16V	D913	8-719-210-33	DIODE EC10DS2			
C803	1-126-964-11	ELECT	10uF	20%	50V	D931	8-719-210-33	DIODE EC10DS2			
C804	1-136-165-00	FILM	0.1uF	5%	50V	D951	8-719-988-61	DIODE 1SS355TE-17			
C805	1-136-165-00	FILM	0.1uF	5%	50V	< FERRITE BEAD >					
C806	1-126-916-11	ELECT	1000uF	20%	6.3V	FB412	1-414-772-11	FERRITE	0uH		
C808	1-109-953-11	ELECT	2.2uF	20%	50V	FB413	1-414-551-11	FERRITE	0uH		
C902	1-126-937-11	ELECT	4700uF	20%	16V	FB415	1-414-772-11	FERRITE	0uH		
C903	1-126-964-11	ELECT	10uF	20%	50V						
C904	1-126-964-11	ELECT	10uF	20%	50V						
C905	1-126-935-11	ELECT	470uF	20%	10V						
C911	1-126-964-11	ELECT	10uF	20%	50V						



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< FILTER >							
FL501	1-233-289-21	FILTER, EMI (SMD)		Q162	8-729-620-05	TRANSISTOR	2SC2603-EF
FL502	1-233-289-21	FILTER, EMI (SMD)		Q163	8-729-141-30	TRANSISTOR	2SC3623A-LK
FL503	1-233-289-21	FILTER, EMI (SMD)		Q165	8-729-029-86	TRANSISTOR	DTC124ESA
< IC >				Q331	8-729-140-04	TRANSISTOR	2SB1116A-L
IC101	8-759-571-54	IC M62493FP		Q332	8-729-029-86	TRANSISTOR	DTC124ESA
IC181	8-759-009-06	IC MC14052BF		Q333	8-729-140-04	TRANSISTOR	2SB1116A-L
IC191	8-759-571-53	IC BA7615N		Q334	8-729-029-86	TRANSISTOR	DTC124ESA
IC301	8-759-495-26	IC HA12215F		Q335	8-729-029-86	TRANSISTOR	DTC124ESA
IC501	8-759-827-40	IC M30622MAA-A92FP		Q336	8-729-116-59	TRANSISTOR	2SB1068TP
IC601	8-759-100-96	IC uPC4558G2		Q339	8-729-029-86	TRANSISTOR	DTC124ESA
IC781	8-749-923-04	IC TOTX178A (CD DIGITAL OUT OPTICAL)		Q801	8-729-620-05	TRANSISTOR	2SC2603-EF
IC801	8-759-635-63	IC M51943BSL		Q802	8-729-029-40	TRANSISTOR	DTA124ESA
IC901	8-759-071-48	IC TA7807S		Q803	8-729-029-40	TRANSISTOR	DTA124ESA
IC911	8-759-039-69	IC uPC7805AHF		Q804	8-729-029-40	TRANSISTOR	DTA124ESA
IC931	8-759-604-38	IC M5F78M10L		Q901	8-729-040-20	TRANSISTOR	RT1P137L-TP
IC932	8-759-088-08	IC uPC7812AHF		Q902	8-729-029-40	TRANSISTOR	DTA124ESA
IC933	8-759-071-48	IC TA7807S		Q903	8-729-040-19	TRANSISTOR	RT1N137L-TP
IC951	8-759-604-90	IC M5F7907L		Q904	8-729-029-86	TRANSISTOR	DTA124ESA
< JACK >				Q905	8-729-119-76	TRANSISTOR	2SA1175-HFE
J701	1-794-148-21	JACK, PIN 8P (PHONO IN, MD IN/OUT, VIDEO AUDIO IN)		Q906	8-729-620-05	TRANSISTOR	2SC2603-EF
J702	1-815-043-11	JACK, PIN 2P (VIDEO VIDEO IN, VIDEO OUT)		Q911	8-729-040-20	TRANSISTOR	RT1P137L-TP
J705	1-573-028-31	JACK, PIN 4P (DJ MIX RETURN/SEND) (US, CND, AEP, UK, MX)		Q912	8-729-029-86	TRANSISTOR	DTC124ESA
< SHORT >				Q913	8-729-040-20	TRANSISTOR	RT1P137L-TP
JR1	1-216-295-11	SHORT	0	Q914	8-729-029-86	TRANSISTOR	DTC124ESA
JR2	1-216-296-11	SHORT	0	Q931	8-729-040-20	TRANSISTOR	RT1P137L-TP
JR3	1-216-296-11	SHORT	0	Q932	8-729-029-86	TRANSISTOR	DTC124ESA
JR4	1-216-295-11	SHORT	0	Q961	8-729-620-05	TRANSISTOR	2SC2603-EF (US, CND, E)
JR5	1-216-295-11	SHORT	0	Q962	8-729-140-04	TRANSISTOR	2SB1116A-L (US, CND, E)
JR6	1-216-296-11	SHORT	0	< RESISTOR >			
JR7	1-216-296-11	SHORT	0	R111	1-216-833-11	METAL CHIP	10K 5% 1/16W
JR8	1-216-296-11	SHORT	0	R112	1-216-857-11	METAL CHIP	1M 5% 1/16W
JR9	1-216-295-11	SHORT	0	R113	1-216-848-11	METAL CHIP	180K 5% 1/16W
JR10	1-216-296-11	SHORT	0	R114	1-216-818-11	METAL CHIP	560 5% 1/16W
JR11	1-216-296-11	SHORT	0	R115	1-216-841-11	METAL CHIP	47K 5% 1/16W
JR181	1-216-295-11	SHORT	0	R116	1-216-842-11	METAL CHIP	56K 5% 1/16W
JR182	1-216-295-11	SHORT	0	R117	1-216-833-11	METAL CHIP	10K 5% 1/16W
JR191	1-216-295-11	SHORT	0	R118	1-216-841-11	METAL CHIP	47K 5% 1/16W
JR192	1-216-295-11	SHORT	0	R119	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
JR594	1-216-295-11	SHORT	0	R120	1-216-845-11	METAL CHIP	100K 5% 1/16W
JR703	1-216-295-11	SHORT	0	R121	1-216-833-11	METAL CHIP	10K 5% 1/16W
JR901	1-216-295-11	SHORT	0	R122	1-216-295-11	SHORT	0
JR910	1-216-296-11	SHORT	0	R123	1-216-850-11	METAL CHIP	270K 5% 1/16W
< COIL >				R124	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
L781	1-412-032-11	INDUCTOR CHIP 100uH		R125	1-216-827-11	METAL CHIP	3.3K 5% 1/16W
< TRANSISTOR >				R126	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
Q111	8-729-620-05	TRANSISTOR	2SC2603-EF	R127	1-216-852-11	METAL CHIP	390K 5% 1/16W
Q112	8-729-620-05	TRANSISTOR	2SC2603-EF	R129	1-216-857-11	METAL CHIP	1M 5% 1/16W
Q113	8-729-141-30	TRANSISTOR	2SC3623A-LK	R131	1-216-809-11	METAL CHIP	100 5% 1/16W
Q115	8-729-029-86	TRANSISTOR	DTC124ESA	R132	1-216-809-11	METAL CHIP	100 5% 1/16W
Q161	8-729-620-05	TRANSISTOR	2SC2603-EF	R133	1-216-809-11	METAL CHIP	100 5% 1/16W
				R161	1-216-833-11	METAL CHIP	10K 5% 1/16W
				R162	1-216-857-11	METAL CHIP	1M 5% 1/16W
				R163	1-216-848-11	METAL CHIP	180K 5% 1/16W
				R164	1-216-818-11	METAL CHIP	560 5% 1/16W
				R165	1-216-841-11	METAL CHIP	47K 5% 1/16W
				R166	1-216-842-11	METAL CHIP	56K 5% 1/16W



# HCD-XG60/XG500

## MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R167	1-216-833-11	METAL CHIP	10K	5%	1/16W	R413	1-216-295-11	SHORT	0		
R168	1-216-841-11	METAL CHIP	47K	5%	1/16W	R414	1-216-295-11	SHORT	0		
R169	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R451	1-216-809-11	METAL CHIP	100	5%	1/16W
R170	1-216-845-11	METAL CHIP	100K	5%	1/16W	R452	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R171	1-216-833-11	METAL CHIP	10K	5%	1/16W	R501	1-216-809-11	METAL CHIP	100	5%	1/16W
R172	1-216-295-11	SHORT	0			R503	1-216-809-11	METAL CHIP	100	5%	1/16W
R173	1-216-850-11	METAL CHIP	270K	5%	1/16W	R505	1-216-809-11	METAL CHIP	100	5%	1/16W
R174	1-216-833-11	METAL CHIP	10K	5%	1/16W	R511	1-216-851-11	METAL CHIP	330K	5%	1/16W
R175	1-216-845-11	METAL CHIP	100K	5%	1/16W	R513	1-216-295-11	SHORT	0		
R177	1-216-852-11	METAL CHIP	390K	5%	1/16W	R517	1-216-833-11	METAL CHIP	10K	5%	1/16W
R178	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R518	1-216-809-11	METAL CHIP	100	5%	1/16W
R179	1-216-857-11	METAL CHIP	1M	5%	1/16W	R519	1-216-809-11	METAL CHIP	100	5%	1/16W
R301	1-216-839-11	METAL CHIP	33K	5%	1/16W	R520	1-216-809-11	METAL CHIP	100	5%	1/16W
R302	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R521	1-216-809-11	METAL CHIP	100	5%	1/16W
R303	1-216-809-11	METAL CHIP	100	5%	1/16W	R522	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R304	1-216-809-11	METAL CHIP	100	5%	1/16W	R526	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R305	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R527	1-216-809-11	METAL CHIP	100	5%	1/16W
R306	1-216-832-11	METAL CHIP	8.2K	5%	1/16W	R528	1-216-809-11	METAL CHIP	100	5%	1/16W
R307	1-216-832-11	METAL CHIP	8.2K	5%	1/16W	R529	1-216-809-11	METAL CHIP	100	5%	1/16W
R308	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R530	1-216-809-11	METAL CHIP	100	5%	1/16W
R309	1-216-837-11	METAL CHIP	22K	5%	1/16W	R532	1-216-809-11	METAL CHIP	100	5%	1/16W
R311	1-216-857-11	METAL CHIP	1M	5%	1/16W	R533	1-216-809-11	METAL CHIP	100	5%	1/16W
R312	1-218-900-11	METAL CHIP	160K	0.5%	1/16W	R535	1-216-809-11	METAL CHIP	100	5%	1/16W
R313	1-216-845-11	METAL CHIP	100K	5%	1/16W	R536	1-216-809-11	METAL CHIP	100	5%	1/16W
R315	1-216-833-11	METAL CHIP	10K	5%	1/16W	R537	1-216-809-11	METAL CHIP	100	5%	1/16W
R316	1-216-836-11	METAL CHIP	18K	5%	1/16W	R538	1-216-809-11	METAL CHIP	100	5%	1/16W
R317	1-216-833-11	METAL CHIP	10K	5%	1/16W	R540	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R318	1-216-833-11	METAL CHIP	10K	5%	1/16W	R541	1-216-833-11	METAL CHIP	10K	5%	1/16W
R319	1-216-852-11	METAL CHIP	390K	5%	1/16W	R542	1-216-809-11	METAL CHIP	100	5%	1/16W
R321	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	R543	1-216-809-11	METAL CHIP	100	5%	1/16W
R322	1-216-832-11	METAL CHIP	8.2K	5%	1/16W	R545	1-216-809-11	METAL CHIP	100	5%	1/16W
R332	1-216-819-11	METAL CHIP	680	5%	1/16W	R546	1-216-809-11	METAL CHIP	100	5%	1/16W
R333	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R547	1-216-809-11	METAL CHIP	100	5%	1/16W
R334	1-216-819-11	METAL CHIP	680	5%	1/16W	R548	1-216-809-11	METAL CHIP	100	5%	1/16W
R335	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R549	1-216-809-11	METAL CHIP	100	5%	1/16W
R340	1-216-841-11	METAL CHIP	47K	5%	1/16W	R550	1-216-809-11	METAL CHIP	100	5%	1/16W
R343	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R551	1-216-809-11	METAL CHIP	100	5%	1/16W
R344	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R552	1-216-809-11	METAL CHIP	100	5%	1/16W
R345	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R553	1-216-809-11	METAL CHIP	100	5%	1/16W
R351	1-216-839-11	METAL CHIP	33K	5%	1/16W	R554	1-216-809-11	METAL CHIP	100	5%	1/16W
R352	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R555	1-216-809-11	METAL CHIP	100	5%	1/16W
R353	1-216-809-11	METAL CHIP	100	5%	1/16W	R556	1-216-809-11	METAL CHIP	100	5%	1/16W
R354	1-216-809-11	METAL CHIP	100	5%	1/16W	R557	1-216-041-00	METAL CHIP	470	5%	1/10W
R355	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R558	1-216-809-11	METAL CHIP	100	5%	1/16W
R356	1-216-832-11	METAL CHIP	8.2K	5%	1/16W	R559	1-216-809-11	METAL CHIP	100	5%	1/16W
R357	1-216-832-11	METAL CHIP	8.2K	5%	1/16W	R561	1-216-809-11	METAL CHIP	100	5%	1/16W
R358	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R563	1-216-809-11	METAL CHIP	100	5%	1/16W
R359	1-216-839-11	METAL CHIP	33K	5%	1/16W	R565	1-216-809-11	METAL CHIP	100	5%	1/16W
R371	1-216-841-11	METAL CHIP	47K	5%	1/16W	R567	1-216-833-11	METAL CHIP	10K	5%	1/16W
R372	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R568	1-216-809-11	METAL CHIP	100	5%	1/16W
R373	1-216-821-11	METAL CHIP	1K	5%	1/16W	R569	1-216-809-11	METAL CHIP	100	5%	1/16W
R374	1-216-841-11	METAL CHIP	47K	5%	1/16W	R570	1-216-841-11	METAL CHIP	47K	5%	1/16W
R375	1-218-892-11	METAL CHIP	75K	0.5%	1/16W	R572	1-216-809-11	METAL CHIP	100	5%	1/16W
R376	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R573	1-216-809-11	METAL CHIP	100	5%	1/16W
R377	1-216-841-11	METAL CHIP	47K	5%	1/16W	R574	1-216-809-11	METAL CHIP	100	5%	1/16W
R378	1-218-892-11	METAL CHIP	75K	0.5%	1/16W						
R401	1-216-809-11	METAL CHIP	100	5%	1/16W						
R402	1-216-827-11	METAL CHIP	3.3K	5%	1/16W						



Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R575	1-216-809-11	METAL CHIP	100	5%	1/16W	R703	1-216-821-11	METAL CHIP	1K	5%	1/16W
R576	1-216-809-11	METAL CHIP	100	5%	1/16W	R704	1-216-845-11	METAL CHIP	100K	5%	1/16W
R577	1-216-809-11	METAL CHIP	100	5%	1/16W	R705	1-216-821-11	METAL CHIP	1K	5%	1/16W
R578	1-216-809-11	METAL CHIP	100	5%	1/16W	R706	1-216-845-11	METAL CHIP	100K	5%	1/16W
R579	1-216-809-11	METAL CHIP	100	5%	1/16W	R707	1-216-821-11	METAL CHIP	1K	5%	1/16W
R580	1-216-809-11	METAL CHIP	100	5%	1/16W	(US, CND, AEP, UK, MX)					
R581	1-216-809-11	METAL CHIP	100	5%	1/16W	R708	1-216-821-11	METAL CHIP	1K	5%	1/16W
R582	1-216-809-11	METAL CHIP	100	5%	1/16W	(US, CND, AEP, UK, MX)					
R583	1-216-809-11	METAL CHIP	100	5%	1/16W	R709	1-216-821-11	METAL CHIP	1K	5%	1/16W
R584	1-216-809-11	METAL CHIP	100	5%	1/16W	(US, CND, AEP, UK, MX)					
R585	1-216-809-11	METAL CHIP	100	5%	1/16W	R710	1-216-821-11	METAL CHIP	1K	5%	1/16W
R586	1-216-809-11	METAL CHIP	100	5%	1/16W	(US, CND, AEP, UK, MX)					
R587	1-216-809-11	METAL CHIP	100	5%	1/16W	R717	1-216-845-11	METAL CHIP	100K	5%	1/16W
R588	1-216-809-11	METAL CHIP	100	5%	1/16W	(US, CND, AEP, UK, MX)					
R589	1-216-809-11	METAL CHIP	100	5%	1/16W	R718	1-216-845-11	METAL CHIP	100K	5%	1/16W
R590	1-216-809-11	METAL CHIP	100	5%	1/16W	(US, CND, AEP, UK, MX)					
R591	1-216-809-11	METAL CHIP	100	5%	1/16W	R721	1-211-990-11	METAL CHIP	75	0.5%	1/16W
R593	1-216-809-11	METAL CHIP	100	5%	1/16W	R722	1-216-804-11	METAL CHIP	39	5%	1/16W
R594	1-216-295-11	SHORT	0			R724	1-216-833-11	METAL CHIP	10K	5%	1/16W
R595	1-216-841-11	METAL CHIP	47K	5%	1/16W	R751	1-216-821-11	METAL CHIP	1K	5%	1/16W
R596	1-216-831-11	METAL CHIP	6.8K	5%	1/16W	R752	1-216-845-11	METAL CHIP	100K	5%	1/16W
R596	1-216-837-11	METAL CHIP	22K	5%	1/16W	R753	1-216-821-11	METAL CHIP	1K	5%	1/16W
R596	1-216-841-11	METAL CHIP	47K	5%	1/16W	R754	1-216-845-11	METAL CHIP	100K	5%	1/16W
R596	1-216-295-11	SHORT	0 (US, CND)			R755	1-216-821-11	METAL CHIP	1K	5%	1/16W
R597	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R756	1-216-845-11	METAL CHIP	100K	5%	1/16W
R597	1-216-839-11	METAL CHIP	33K	5%	1/16W	R801	1-216-821-11	METAL CHIP	1K	5%	1/16W
R597	1-216-841-11	METAL CHIP	47K	5%	1/16W	R802	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R600	1-216-809-11	METAL CHIP	100	5%	1/16W	R803	1-216-809-11	METAL CHIP	100	5%	1/16W
R601	1-216-821-11	METAL CHIP	1K	5%	1/16W	R804	1-216-841-11	METAL CHIP	47K	5%	1/16W
R602	1-216-821-11	METAL CHIP	1K	5%	1/16W	R805	1-216-841-11	METAL CHIP	47K	5%	1/16W
R603	1-216-841-11	METAL CHIP	47K	5%	1/16W	R806	1-216-833-11	METAL CHIP	10K	5%	1/16W
R604	1-216-820-11	METAL CHIP	820	5%	1/16W	R807	1-216-833-11	METAL CHIP	10K	5%	1/16W
R604	1-216-821-11	METAL CHIP	1K	5%	1/16W	R808	1-216-821-11	METAL CHIP	1K	5%	1/16W
R605	1-216-854-11	METAL CHIP	560K	5%	1/16W	R809	1-216-845-11	METAL CHIP	100K	5%	1/16W
R606	1-216-841-11	METAL CHIP	47K	5%	1/16W	R810	1-216-813-11	METAL CHIP	220	5%	1/16W
R607	1-216-821-11	METAL CHIP	1K	5%	1/16W	R811	1-216-845-11	METAL CHIP	100K	5%	1/16W
R608	1-216-845-11	METAL CHIP	100K	5%	1/16W	R901	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R609	1-216-813-11	METAL CHIP	220	5%	1/16W	R902	1-216-837-11	METAL CHIP	22K	5%	1/16W
R651	1-216-821-11	METAL CHIP	1K	5%	1/16W	R903	1-216-821-11	METAL CHIP	1K	5%	1/16W
R652	1-216-821-11	METAL CHIP	1K	5%	1/16W	R904	1-216-833-11	METAL CHIP	10K	5%	1/16W
R653	1-216-841-11	METAL CHIP	47K	5%	1/16W	R961	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R654	1-216-820-11	METAL CHIP	820	5%	1/16W	(US, CND, E)					
R654	1-216-821-11	METAL CHIP	1K	5%	1/16W	R962	1-216-837-11	METAL CHIP	22K	5%	1/16W
R655	1-216-854-11	METAL CHIP	560K	5%	1/16W	(US, CND, E)					
R656	1-216-841-11	METAL CHIP	47K	5%	1/16W	R963	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R657	1-216-821-11	METAL CHIP	1K	5%	1/16W	(US, CND, E)					
R658	1-216-845-11	METAL CHIP	100K	5%	1/16W	< VARIABLE RESISTOR >					
R659	1-216-813-11	METAL CHIP	220	5%	1/16W	RV301	1-238-600-11	RES, ADJ, CARBON 10K			
R701	1-216-821-11	METAL CHIP	1K	5%	1/16W	RV351	1-238-600-11	RES, ADJ, CARBON 10K			
R702	1-216-845-11	METAL CHIP	100K	5%	1/16W	< VIBRATOR >					
						X501	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
						X502	1-781-107-21	VIBRATOR, SERAMIC (16MHz)			
						*****					



# HCD-XG60/XG500

MIC

PA

Ref. No.	Part No.	Description	Remark		
		MIC BOARD *****			
		< CAPACITOR >			
C801	1-162-306-11	CERAMIC	0.01uF	30%	16V
C802	1-162-215-31	CERAMIC	47PF	5%	50V
C803	1-126-960-11	ELECT	1uF	20%	50V
C804	1-126-959-11	ELECT	0.47uF	20%	50V
C805	1-162-294-31	CERAMIC	0.001uF	10%	50V
C806	1-162-215-31	CERAMIC	47PF	5%	50V
C810	1-162-286-21	CERAMIC	220PF	10%	50V
C813	1-137-372-11	MYLAR	0.022uF	5%	50V
C814	1-162-215-31	CERAMIC	47PF	5%	50V
C815	1-162-215-31	CERAMIC	47PF	5%	50V
C816	1-126-961-11	ELECT	2.2uF	20%	50V
C817	1-126-961-11	ELECT	2.2uF	20%	50V
C818	1-162-215-31	CERAMIC	47PF	5%	50V
C819	1-162-215-31	CERAMIC	47PF	5%	50V
C821	1-104-664-11	ELECT	47uF	20%	16V
C822	1-104-664-11	ELECT	47uF	20%	16V
C836	1-162-306-11	CERAMIC	0.01uF	30%	16V
C880	1-126-961-11	ELECT	2.2uF	20%	50V
C881	1-162-215-31	CERAMIC	47PF	5%	50V
C882	1-162-215-31	CERAMIC	47PF	5%	50V
C884	1-126-961-11	ELECT	2.2uF	20%	50V
		< CONNECTOR >			
CN811	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P			
CN812	1-785-318-11	PIN, CONNECTOR (STRAIGHT) 6P			
		< NOISE FILTER >			
FL801	1-424-228-11	FILTER, NOISE			
		< IC >			
IC850	8-759-700-08	IC	NJM4558S		
IC852	8-759-700-08	IC	NJM4558S		
IC853	8-759-700-08	IC	NJM4558S		
		< JACK >			
J801	1-770-226-11	JACK (LARGE TYPE) (MIX MIC)			
J802	1-770-226-11	JACK (LARGE TYPE) (GUITAR)			
		< TRANSISTOR >			
Q880	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q881	8-729-029-86	TRANSISTOR	DTC124ESA		
Q882	8-729-029-86	TRANSISTOR	DTC124ESA		
Q883	8-729-029-40	TRANSISTOR	DTA124ESA		
		< RESISTOR >			
R806	1-247-903-00	CARBON	1M	5%	1/4W
R807	1-249-429-11	CARBON	10K	5%	1/4W
R809	1-249-417-11	CARBON	1K	5%	1/4W
R850	1-249-417-11	CARBON	1K	5%	1/4W
R852	1-249-441-11	CARBON	100K	5%	1/4W
R853	1-249-417-11	CARBON	1K	5%	1/4W
R854	1-249-437-11	CARBON	47K	5%	1/4W
R855	1-249-429-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description	Remark			
R856	1-247-899-00	CARBON	680K	5%	1/4W	
R857	1-249-425-11	CARBON	4.7K	5%	1/4W	
R869	1-247-875-11	CARBON	68K	5%	1/4W	
R870	1-247-887-00	CARBON	220K	5%	1/4W	
R872	1-249-421-11	CARBON	2.2K	5%	1/4W	
R873	1-247-839-11	CARBON	2.2K	5%	1/4W	
R874	1-249-431-11	CARBON	15K	5%	1/4W	
R880	1-247-855-11	CARBON	10K	5%	1/4W	
R881	1-247-871-11	CARBON	47K	5%	1/4W	
R882	1-249-437-11	CARBON	47K	5%	1/4W	
R883	1-249-437-11	CARBON	47K	5%	1/4W	
R884	1-247-823-11	CARBON	470	5%	1/4W	
R885	1-249-429-11	CARBON	10K	5%	1/4W	
R886	1-247-893-11	CARBON	390K	5%	1/4W	
R887	1-249-429-11	CARBON	10K	5%	1/4W	
R888	1-249-417-11	CARBON	1K	5%	1/4W	
R891	1-247-903-00	CARBON	1M	5%	1/4W	
*****						
	A-4475-515-A	PA BOARD, COMPLETE (E2, MX, AR)				
	A-4475-555-A	PA BOARD, COMPLETE (US, CND)				
	A-4475-576-A	PA BOARD, COMPLETE (AEP, UK)				
	A-4476-037-A	PA BOARD, COMPLETE (EA, SP)				
		*****				
		< CAPACITOR >				
C401	1-126-963-11	ELECT	4.7uF	20%	50V	
C402	1-164-159-21	CERAMIC	0.1uF		50V	
C403	1-164-159-21	CERAMIC	0.1uF		50V	(AEP, UK)
C404	1-164-159-21	CERAMIC	0.1uF		50V	(AEP, UK)
C405	1-164-159-21	CERAMIC	0.1uF		50V	(AEP, UK)
C412	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C413	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C432	1-126-933-11	ELECT	100uF	20%	16V	
C433	1-126-961-11	ELECT	2.2uF	20%	50V	(XG500)
C433	1-126-962-11	ELECT	3.3uF	20%	50V	(XG60)
C801	1-128-582-11	ELECT	10uF	20%	100V	
C802	1-162-290-31	CERAMIC	470PF	10%	50V	
C803	1-162-286-21	CERAMIC	220PF	10%	50V	
C804	1-126-967-11	ELECT	47uF	20%	50V	
C807	1-128-560-11	ELECT	22uF	20%	100V	
C808	1-130-777-00	MYLAR	0.1uF	10%	100V	
C809	1-130-777-00	MYLAR	0.1uF	10%	100V	
C810	1-128-562-11	ELECT	47uF	20%	100V	(XG60)
C810	1-128-578-11	ELECT	1uF	20%	100V	(XG500)
C811	1-130-491-00	MYLAR	0.047uF	5%	50V	
C812	1-130-491-00	MYLAR	0.047uF	5%	50V	
C813	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C814	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C815	1-126-959-11	ELECT	0.47uF	20%	50V	
C830	1-107-714-11	ELECT	10uF	20%	50V	
C831	1-126-964-11	ELECT	10uF	20%	50V	



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C832	1-126-967-11	ELECT	47uF 20% 50V	D801	8-719-991-33	DIODE 1SS133T-77	
C841	1-127-751-11	ELECT	3300uF 20% 50V (EA, SP)	D802	8-719-110-39	DIODE RD15ESB1 (XG60)	
C841	1-127-753-11	ELECT	3300uF 20% 71V (XG500)	D803	8-719-991-33	DIODE 1SS133T-77	
C841	1-127-811-11	ELECT	3300uF 20% 50V (E2, MX, AR)	D804	8-719-991-33	DIODE 1SS133T-77	
C842	1-127-755-11	ELECT	3300uF 20% 100V (EA, SP)	D805	8-719-991-33	DIODE 1SS133T-77	
C842	1-127-815-11	ELECT	3300uF 20% 100V (E2, MX, AR)	D831	8-719-510-68	DIODE D5SBA204101 (XG60)	
C844	1-130-777-00	MYLAR	0.1uF 10% 100V (XG60)	D833	8-719-200-82	DIODE 11ES2	
C845	1-126-943-11	ELECT	2200uF 20% 25V	D834	8-719-200-82	DIODE 11ES2	
C847	1-164-159-21	CERAMIC	0.1uF 50V	D835	8-719-200-82	DIODE 11ES2	
C848	1-164-159-21	CERAMIC	0.1uF 50V	D836	8-719-200-82	DIODE 11ES2	
C849	1-164-159-21	CERAMIC	0.1uF 50V	D841	8-719-200-82	DIODE 11ES2	
C850	1-107-721-11	ELECT	4.7uF 20% 100V	D842	8-719-200-82	DIODE 11ES2	
C851	1-128-582-11	ELECT	10uF 20% 100V	D843	8-719-200-82	DIODE 11ES2	
C852	1-162-290-31	CERAMIC	470PF 10% 50V	D844	8-719-200-82	DIODE 11ES2	
C853	1-162-286-21	CERAMIC	220PF 10% 50V	D851	8-719-991-33	DIODE 1SS133T-77	
C854	1-126-967-11	ELECT	47uF 20% 50V	D852	8-719-110-39	DIODE RD15ESB1 (XG60)	
C857	1-128-560-11	ELECT	22uF 20% 100V	D853	8-719-991-33	DIODE 1SS133T-77	
C858	1-164-159-11	CERAMIC	0.1uF 20% 50V	D902	8-719-210-21	DIODE 11EQS04	
C859	1-164-159-11	CERAMIC	0.1uF 20% 50V	D903	8-719-210-21	DIODE 11EQS04	
C861	1-130-491-00	MYLAR	0.047uF 5% 50V	D904	8-719-210-21	DIODE 11EQS04	
C862	1-130-491-00	MYLAR	0.047uF 5% 50V	D905	8-719-210-21	DIODE 11EQS04	
C863	1-126-961-11	ELECT	2.2uF 20% 50V	D906	8-719-991-33	DIODE 1SS133T-77	
C891	1-127-751-11	ELECT	3300uF 20% 50V (EA, SP)	D911	8-719-982-24	DIODE MTZJ-33A	
C891	1-127-753-11	ELECT	3300uF 20% 71V (XG500)	D912	8-719-109-89	DIODE RD5.6ESB2	
C891	1-127-811-11	ELECT	3300uF 20% 50V (E2, MX, AR)	< IC >			
C892	1-127-755-11	ELECT	3300uF 20% 100V (EA, SP)	IC801	8-749-017-05	IC STK412-040 (XG60)	
C892	1-127-815-11	ELECT	3300uF 20% 100V (E2, MX, AR)	IC801	8-749-017-16	IC STK442-130 (XG500)	
C894	1-130-777-00	MYLAR	0.1uF 10% 100V (XG60)	IC901	8-759-450-47	IC BA05T	
C895	1-107-721-11	ELECT	4.7uF 20% 100V	< COIL >			
C902	1-164-159-21	CERAMIC	0.1uF 50V	L401	1-420-872-00	COIL, AIR-CORE (AEP, UK)	
C903	1-126-933-11	ELECT	100uF 20% 16V	L402	1-420-872-00	COIL, AIR-CORE (AEP, UK)	
C904	1-126-964-11	ELECT	10uF 20% 50V	< TRANSISTOR >			
C905	1-126-968-11	ELECT	100uF 20% 50V	Q401	8-729-029-40	TRANSISTOR DTA124ESA (XG60)	
C906	1-126-943-11	ELECT	2200uF 20% 25V	Q401	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA (XG500)	
C909	1-164-159-21	CERAMIC	0.1uF 50V	Q402	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
C910	1-104-664-11	ELECT	47uF 20% 16V	Q431	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
< CONNECTOR >				Q432	8-729-119-76	TRANSISTOR 2SA1175-HFE	
CN803	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P		Q433	8-729-620-05	TRANSISTOR 2SC2603-EF	
CN804	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P		Q434	8-729-620-05	TRANSISTOR 2SC2603-EF	
CN901	1-564-321-00	PIN, CONNECTOR 2P		Q437	8-729-620-05	TRANSISTOR 2SC2603-EF	
CN904	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P		Q439	8-729-620-05	TRANSISTOR 2SC2603-EF	
< DIODE >				Q801	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
D401	8-719-991-33	DIODE 1SS133T-77		Q803	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
D402	8-719-991-33	DIODE 1SS133T-77		Q804	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
D405	8-719-991-33	DIODE 1SS133T-77		Q805	8-729-231-55	TRANSISTOR 2SC2878-AB	
D406	8-719-991-33	DIODE 1SS133T-77		Q831	8-729-029-86	TRANSISTOR DTC124ESA	
				Q832	8-729-620-05	TRANSISTOR 2SC2603-EF	
				Q833	8-729-029-40	TRANSISTOR DTA124ESA	
				Q834	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
				Q851	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
				Q855	8-729-231-55	TRANSISTOR 2SC2878-AB	
				Q901	8-729-620-05	TRANSISTOR 2SC2603-EF	
				Q903	8-729-048-52	TRANSISTOR 2SA1932 (TP)	
				Q908	8-729-119-76	TRANSISTOR 2SA1175-HFE	



# HCD-XG60/XG500

PA

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
< RESISTOR >							R822	1-249-433-11	CARBON	22K	5%	1/4W	
△ R401	1-215-893-11	METAL OXIDE	1.5K	5%	2W F		R823	1-249-433-11	CARBON	22K	5%	1/4W	
					(AEP, UK)		R824	1-249-413-11	CARBON	470	5%	1/4W	
△ R401	1-216-431-11	METAL OXIDE	560	5%	1W F	△ R825	1-215-891-11	METAL OXIDE	680	5%	2W F		
					(E)		R827	1-249-441-11	CARBON	100K	5%	1/4W	
△ R401	1-216-458-11	METAL OXIDE	1.8K	5%	2W F		R828	1-247-903-00	CARBON	1M	5%	1/4W	
					(US, CND)		R831	1-249-441-11	CARBON	100K	5%	1/4W	
R406	1-249-437-11	CARBON	47K	5%	1/4W		R832	1-249-441-11	CARBON	100K	5%	1/4W	
R407	1-249-437-11	CARBON	47K	5%	1/4W		R833	1-249-432-11	CARBON	18K	5%	1/4W	
												(XG60)	
R410	1-249-389-11	CARBON	4.7	5%	1/4W		R833	1-249-433-11	CARBON	22K	5%	1/4W	
					(AEP, UK)							(XG500)	
R411	1-249-389-11	CARBON	4.7	5%	1/4W		R834	1-249-429-11	CARBON	10K	5%	1/4W	
					(AEP, UK)								
R412	1-249-389-11	CARBON	4.7	5%	1/4W		R835	1-249-437-11	CARBON	47K	5%	1/4W	
					(AEP, UK)		R836	1-249-417-11	CARBON	1K	5%	1/4W	
R413	1-249-389-11	CARBON	4.7	5%	1/4W		R837	1-249-435-11	CARBON	33K	5%	1/4W	
					(AEP, UK)		R838	1-249-435-11	CARBON	33K	5%	1/4W	
R414	1-260-076-11	CARBON	10	5%	1/2W		R839	1-249-441-11	CARBON	100K	5%	1/4W	
					(AEP, UK)							(XG60)	
R415	1-260-076-11	CARBON	10	5%	1/2W		R840	1-249-402-11	CARBON	56	5%	1/4W	
					(AEP, UK)		R851	1-249-417-11	CARBON	1K	5%	1/4W	
R429	1-249-437-11	CARBON	47K	5%	1/4W		R852	1-249-437-11	CARBON	47K	5%	1/4W	
R431	1-249-438-11	CARBON	56K	5%	1/4W		R853	1-249-415-11	CARBON	680	5%	1/4W	
R432	1-249-437-11	CARBON	47K	5%	1/4W		△ R855	1-215-891-11	METAL OXIDE	680	5%	2W F	
R434	1-249-433-11	CARBON	22K	5%	1/4W								
							△ R857	1-212-881-11	FUSIBLE	100	5%	1/4W F	
R437	1-249-429-11	CARBON	10K	5%	1/4W		△ R858	1-220-893-11	METAL	0.22	10%	5W F	
R439	1-249-425-11	CARBON	4.7K	5%	1/4W		R859	1-260-076-11	CARBON	10	5%	1/2W	
R440	1-249-433-11	CARBON	22K	5%	1/4W		R860	1-249-437-11	CARBON	47K	5%	1/4W	
							R861	1-249-417-11	CARBON	1K	5%	1/4W	
R440	1-249-437-11	CARBON	47K	5%	1/4W								
					(XG500)		R862	1-249-431-11	CARBON	15K	5%	1/4W	
R441	1-249-435-11	CARBON	33K	5%	1/4W		R863	1-249-441-11	CARBON	100K	5%	1/4W	
							R864	1-249-425-11	CARBON	4.7K	5%	1/4W	
R446	1-249-429-11	CARBON	10K	5%	1/4W		R865	1-249-433-11	CARBON	22K	5%	1/4W	
R447	1-249-437-11	CARBON	47K	5%	1/4W		R868	1-249-409-11	CARBON	220	5%	1/4W	
R460	1-249-429-11	CARBON	10K	5%	1/4W								
					(XG500)		R880	1-249-402-11	CARBON	56	5%	1/4W	
R801	1-249-417-11	CARBON	1K	5%	1/4W		△ R888	1-220-893-11	METAL	0.22	10%	5W F	
R802	1-249-437-11	CARBON	47K	5%	1/4W		R889	1-249-441-11	CARBON	100K	5%	1/4W	
												(XG60)	
R803	1-249-415-11	CARBON	680	5%	1/4W		△ R898	1-220-893-11	METAL	0.22	10%	5W F	
R804	1-249-435-11	CARBON	33K	5%	1/4W		R901	1-249-429-11	CARBON	10K	5%	1/4W	
△ R805	1-216-436-00	METAL OXIDE	3.9K	5%	1W F								
					(XG60)		R902	1-249-441-11	CARBON	100K	5%	1/4W	
△ R806	1-216-436-00	METAL OXIDE	3.9K	5%	1W F		R903	1-249-429-11	CARBON	10K	5%	1/4W	
					(XG60)		R904	1-249-417-11	CARBON	1K	5%	1/4W	
△ R807	1-212-881-11	FUSIBLE	100	5%	1/4W F		R905	1-249-429-11	CARBON	10K	5%	1/4W	
							R906	1-247-807-31	CARBON	100	5%	1/4W	
△ R808	1-220-893-11	METAL	0.22	10%	5W F								
R809	1-260-076-11	CARBON	10	5%	1/2W		R907	1-247-807-31	CARBON	100	5%	1/4W	
R810	1-249-437-11	CARBON	47K	5%	1/4W		R915	1-247-791-91	CARBON	22	5%	1/4W	
R811	1-249-417-11	CARBON	1K	5%	1/4W		△ R916	1-215-916-00	METAL OXIDE	680	5%	3W F	
R812	1-249-431-11	CARBON	15K	5%	1/4W							(XG60)	
R813	1-249-441-11	CARBON	100K	5%	1/4W								
R814	1-249-421-11	CARBON	2.2K	5%	1/4W								
R815	1-249-433-11	CARBON	22K	5%	1/4W		RY401	1-515-920-11	RELAY				
R816	1-249-429-11	CARBON	10K	5%	1/4W								
R817	1-249-421-11	CARBON	2.2K	5%	1/4W								

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

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



PA

PANEL FL

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< TERMINAL >				Q603	8-729-140-04	TRANSISTOR	2SB1116A-L
TM401	1-537-925-61	TERMINAL BOARD (FRONT SPEAKER)		Q604	8-729-620-05	TRANSISTOR	2SC2603-EF
*****				Q605	8-729-047-58	TRANSISTOR	DTC114TLTL2
	A-4475-540-A	PANEL FL BOARD, COMPLETE		Q606	8-729-047-58	TRANSISTOR	DTC114TLTL2
*****				Q607	8-729-047-58	TRANSISTOR	DTC114TLTL2
	4-225-511-01	HOLDER (FL)		Q608	8-729-620-05	TRANSISTOR	2SC2603-EF
*	4-949-935-81	CUSHION (FL)		Q609	8-729-620-05	TRANSISTOR	2SC2603-EF
< CAPACITOR >				< RESISTOR >			
C601	1-104-664-11	ELECT	47uF 20% 16V	R601	1-249-429-11	CARBON	10K 5% 1/4W
C602	1-162-306-11	CERAMIC	0.01uF 30% 16V	R602	1-249-437-11	CARBON	47K 5% 1/4W
C603	1-162-306-11	CERAMIC	0.01uF 30% 16V	R603	1-247-807-31	CARBON	100 5% 1/4W
C604	1-162-294-31	CERAMIC	0.001uF 10% 50V	R604	1-249-437-11	CARBON	47K 5% 1/4W
C605	1-164-159-21	CERAMIC	0.1uF 50V	R605	1-247-807-31	CARBON	100 5% 1/4W
C606	1-136-165-00	FILM	0.1uF 5% 50V	R606	1-247-807-31	CARBON	100 5% 1/4W
C607	1-104-664-11	ELECT	47uF 20% 16V	R607	1-247-807-31	CARBON	100 5% 1/4W
C641	1-126-964-11	ELECT	10uF 20% 50V	R608	1-249-429-11	CARBON	10K 5% 1/4W
C642	1-126-964-11	ELECT	10uF 20% 50V	R609	1-249-429-11	CARBON	10K 5% 1/4W
C643	1-162-303-11	CERAMIC	0.0033uF 30% 16V	R610	1-249-429-11	CARBON	10K 5% 1/4W
C644	1-126-964-11	ELECT	10uF 20% 50V	R611	1-249-429-11	CARBON	10K 5% 1/4W
C645	1-104-664-11	ELECT	47uF 20% 16V	R612	1-249-429-11	CARBON	10K 5% 1/4W
C646	1-162-306-11	CERAMIC	0.01uF 30% 16V	R613	1-249-429-11	CARBON	10K 5% 1/4W
C647	1-126-963-11	ELECT	4.7uF 20% 50V	R614	1-249-429-11	CARBON	10K 5% 1/4W
C648	1-126-960-11	ELECT	1uF 20% 50V	R615	1-249-410-11	CARBON	270 5% 1/4W
C649	1-126-960-11	ELECT	1uF 20% 50V	R616	1-249-410-11	CARBON	270 5% 1/4W
< CONNECTOR >				R617	1-247-903-00	CARBON	1M 5% 1/4W
CN601	1-784-774-11	CONNECTOR, FFC 13P		R618	1-247-807-31	CARBON	100 5% 1/4W
CN602	1-568-838-11	SOCKET, CONNECTOR 21P		R619	1-249-429-11	CARBON	10K 5% 1/4W
< DIODE >				R620	1-249-429-11	CARBON	10K 5% 1/4W
D601	8-719-058-04	LED SEL5223S-TP15 (1/1)		R621	1-247-807-31	CARBON	100 5% 1/4W
D602	8-719-050-84	DIODE RB441Q-40T-77		R622	1-249-429-11	CARBON	10K 5% 1/4W
D603	8-719-991-33	DIODE 1SS133T-77		R623	1-247-807-31	CARBON	100 5% 1/4W
D604	8-719-991-33	DIODE 1SS133T-77		R624	1-249-429-11	CARBON	10K 5% 1/4W
< FLUORESCENT INDICATOR TUBE >				R625	1-247-807-31	CARBON	100 5% 1/4W
FL601	1-517-941-11	INDICATOR TUBE, FLUORESCENT		R626	1-249-429-11	CARBON	10K 5% 1/4W
< IC >				R627	1-249-420-11	CARBON	1.8K 5% 1/4W
IC601	8-759-829-28	IC TMP88CP76F-1B71		R628	1-249-410-11	CARBON	270 5% 1/4W
IC602	8-759-083-77	IC BA3830F		R629	1-247-807-31	CARBON	100 5% 1/4W
< COIL >				R630	1-247-807-31	CARBON	100 5% 1/4W
L601	1-410-509-11	INDUCTOR	10uH	R631	1-249-410-11	CARBON	270 5% 1/4W
L602	1-410-509-11	INDUCTOR	10uH	R632	1-249-411-11	CARBON	330 5% 1/4W
L603	1-410-509-11	INDUCTOR	10uH	R633	1-249-413-11	CARBON	470 5% 1/4W
< NOISE FILTER >				R634	1-249-414-11	CARBON	560 5% 1/4W
LF601	1-424-228-11	FILTER, NOISE		R635	1-249-415-11	CARBON	680 5% 1/4W
< TRANSISTOR >				R636	1-249-417-11	CARBON	1K 5% 1/4W
Q601	8-729-029-86	TRANSISTOR	DTC124ESA	R637	1-249-418-11	CARBON	1.2K 5% 1/4W
Q602	8-729-140-04	TRANSISTOR	2SB1116A-L	R638	1-249-437-11	CARBON	47K 5% 1/4W
				R639	1-247-895-00	CARBON	470K 5% 1/4W
				R641	1-247-893-11	CARBON	390K 5% 1/4W
				R642	1-247-893-11	CARBON	390K 5% 1/4W
				R643	1-249-441-11	CARBON	100K 5% 1/4W
				R644	1-249-440-11	CARBON	82K 5% 1/4W
				R645	1-249-437-11	CARBON	47K 5% 1/4W
				R646	1-249-441-11	CARBON	100K 5% 1/4W
				R647	1-249-440-11	CARBON	82K 5% 1/4W
				R648	1-249-429-11	CARBON	10K 5% 1/4W
				R649	1-249-420-11	CARBON	1.8K 5% 1/4W
				R650	1-249-435-11	CARBON	33K 5% 1/4W



HCD-XG60/XG500

PANEL FL

PANEL VR

Ref. No.	Part No.	Description	Remark		
R651	1-247-895-00	CARBON 470K 5%	1/4W		
R652	1-249-437-11	CARBON 47K 5%	1/4W		
R653	1-249-417-11	CARBON 1K 5%	1/4W		
R654	1-249-437-11	CARBON 47K 5%	1/4W		
R655	1-249-417-11	CARBON 1K 5%	1/4W		
R656	1-249-437-11	CARBON 47K 5%	1/4W		
R658	1-249-441-11	CARBON 100K 5%	1/4W		
R659	1-249-441-11	CARBON 100K 5%	1/4W		
R660	1-249-441-11	CARBON 100K 5%	1/4W		
R661	1-249-410-11	CARBON 270 5%	1/4W		
R662	1-249-411-11	CARBON 330 5%	1/4W		
R663	1-249-413-11	CARBON 470 5%	1/4W		
R664	1-249-414-11	CARBON 560 5%	1/4W		
R665	1-249-427-11	CARBON 6.8K 5%	1/4W		
R666	1-249-429-11	CARBON 10K 5%	1/4W		
R667	1-249-431-11	CARBON 15K 5%	1/4W		
R668	1-249-434-11	CARBON 27K 5%	1/4W		
R669	1-249-438-11	CARBON 56K 5%	1/4W		
R670	1-249-403-11	CARBON 68 5%	1/4W		
R671	1-249-403-11	CARBON 68 5%	1/4W		
R672	1-249-403-11	CARBON 68 5%	1/4W		
R673	1-249-407-11	CARBON 150 5%	1/4W		
< SWITCH >					
S601	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)			
S602	1-762-875-21	SWITCH, KEYBOARD (SPECTRUM ANALYZER)			
S603	1-762-875-21	SWITCH, KEYBOARD (TIMER SELECT)			
S604	1-762-875-21	SWITCH, KEYBOARD (SLEEP)			
S605	1-762-875-21	SWITCH, KEYBOARD (⌚/CLOCK SET)			
S606	1-762-875-21	SWITCH, KEYBOARD (GAME)			
S607	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)			
S608	1-762-875-21	SWITCH, KEYBOARD (I/⏻)			
S609	1-762-875-21	SWITCH, KEYBOARD (POWER SAVE/DEMO (STANDBY))			
S611	1-762-875-21	SWITCH, KEYBOARD (⏻)			
S612	1-762-875-21	SWITCH, KEYBOARD (● REC)			
S613	1-762-875-21	SWITCH, KEYBOARD (H SPEED DUB)			
S614	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)			
S615	1-762-875-21	SWITCH, KEYBOARD (◀)			
S616	1-762-875-21	SWITCH, KEYBOARD (▶)			
S617	1-762-875-21	SWITCH, KEYBOARD (■)			
S618	1-762-875-21	SWITCH, KEYBOARD (◀◀ AMS ▶▶▶ ▶▶)			
S619	1-762-875-21	SWITCH, KEYBOARD (◀◀ AMS ▶▶▶ ▶▶)			
< VIBRATOR >					
X601	1-781-312-11	VIBRATOR, CERAMIC (12.5MHz)			
*****					
PANEL VR BOARD					
*****					
< CAPACITOR >					
C701	1-162-294-31	CERAMIC 0.001uF 10%	50V		
C702	1-162-294-31	CERAMIC 0.001uF 10%	50V		
C703	1-162-294-31	CERAMIC 0.001uF 10%	50V		
C704	1-104-664-11	ELECT 47uF 20%	16V		
C705	1-162-306-11	CERAMIC 0.01uF 30%	16V		

Ref. No.	Part No.	Description	Remark		
C711	1-162-306-11	CERAMIC	0.01uF	30%	16V
C712	1-162-306-11	CERAMIC	0.01uF	30%	16V
C713	1-164-159-21	CERAMIC	0.1uF		50V
C714	1-104-664-11	ELECT	47uF	20%	16V
C715	1-162-306-11	CERAMIC	0.01uF	30%	16V
< CONNECTOR >					
CN701	1-568-838-11	SOCKET, CONNECTOR 21P			
CN702	1-770-010-21	CONNECTOR, BOARD TO BOARD 4P			
< LED >					
D701	8-719-058-03	LED	SEL5423E-TP15 (MOVIE)		
D702	8-719-058-03	LED	SEL5423E-TP15 (ROCK)		
D703	8-719-058-03	LED	SEL5423E-TP15 (REGGAE)		
D704	8-719-058-03	LED	SEL5423E-TP15 (GUITAR)		
D705	8-719-058-03	LED	SEL5423E-TP15 (SAMBA)		
D706	8-719-058-03	LED	SEL5423E-TP15 (JAZZ)		
D707	8-719-058-03	LED	SEL5423E-TP15 (TANGO)		
D708	8-719-058-03	LED	SEL5423E-TP15 (DANCE)		
D709	8-719-058-03	LED	SEL5423E-TP15 (GAME)		
D710	8-719-058-03	LED	SEL5423E-TP15 (SALSA)		
D713	8-719-058-03	LED	SEL5423E-TP15 (TUNER/BAND)		
D714	8-719-058-04	LED	SEL5223S-TP15 (ENTER)		
D715	8-719-058-04	LED	SEL5223S-TP15 (GUITAR DISTORTION)		
D716	8-719-058-04	LED	SEL5223S-TP15 (ENTER/NEXT)		
D717	8-719-058-04	LED	SEL5223S-TP15 (GROOVE)		
D718	8-719-058-04	LED	SEL5223S-TP15 (SUPER WOOFER)		
D719	8-719-057-97	LED	SEL5923A-TP15 (SURROUND)		
< IC >					
IC701	8-759-567-59	IC	NJU3716L		
IC702	8-759-827-68	IC	NJL62H400A-1		
(REMOTE CONTROL RECEIVER)					
< COIL >					
L701	1-410-509-11	INDUCTOR	10uH		
< RESISTOR >					
R701	1-249-411-11	CARBON	330	5%	1/4W
R702	1-249-413-11	CARBON	470	5%	1/4W
R703	1-249-414-11	CARBON	560	5%	1/4W
R704	1-249-415-11	CARBON	680	5%	1/4W
R705	1-249-417-11	CARBON	1K	5%	1/4W
R706	1-249-418-11	CARBON	1.2K	5%	1/4W
R707	1-249-420-11	CARBON	1.8K	5%	1/4W
R708	1-249-422-11	CARBON	2.7K	5%	1/4W
R709	1-247-843-11	CARBON	3.3K	5%	1/4W
R710	1-249-425-11	CARBON	4.7K	5%	1/4W
R711	1-249-427-11	CARBON	6.8K	5%	1/4W
R712	1-249-429-11	CARBON	10K	5%	1/4W
R713	1-249-431-11	CARBON	15K	5%	1/4W
R714	1-249-434-11	CARBON	27K	5%	1/4W
R715	1-249-411-11	CARBON	330	5%	1/4W
R716	1-249-413-11	CARBON	470	5%	1/4W
R717	1-249-414-11	CARBON	560	5%	1/4W
R718	1-249-415-11	CARBON	680	5%	1/4W
R719	1-249-417-11	CARBON	1K	5%	1/4W
R720	1-249-418-11	CARBON	1.2K	5%	1/4W



## PANEL VR

## SUB TRANS

## TABLE SENSOR

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R721	1-249-420-11	CARBON	1.8K	5%	1/4W	S719	1-762-875-21	SWITCH, KEYBOARD (DANCE)			
R722	1-249-422-11	CARBON	2.7K	5%	1/4W	S720	1-762-875-21	SWITCH, KEYBOARD (TANGO)			
R723	1-247-843-11	CARBON	3.3K	5%	1/4W	S721	1-762-875-21	SWITCH, KEYBOARD (SALSA)			
R724	1-249-425-11	CARBON	4.7K	5%	1/4W	S722	1-762-875-21	SWITCH, KEYBOARD (GAME)			
R725	1-249-420-11	CARBON	1.8K	5%	1/4W	S723	1-762-875-21	SWITCH, KEYBOARD (◀)			
R726	1-249-422-11	CARBON	2.7K	5%	1/4W	S724	1-762-875-21	SWITCH, KEYBOARD (▲)			
R727	1-247-843-11	CARBON	3.3K	5%	1/4W	S725	1-762-875-21	SWITCH, KEYBOARD (▼)			
R728	1-249-425-11	CARBON	4.7K	5%	1/4W	S726	1-762-875-21	SWITCH, KEYBOARD (▶)			
R729	1-249-427-11	CARBON	6.8K	5%	1/4W	S727	1-762-875-21	SWITCH, KEYBOARD (ROCK)			
R730	1-249-429-11	CARBON	10K	5%	1/4W	S728	1-762-875-21	SWITCH, KEYBOARD (MOVIE)			
					(AEP, UK)	S729	1-762-875-21	SWITCH, KEYBOARD (REGGAE)			
R734	1-249-417-11	CARBON	1K	5%	1/4W	S730	1-762-875-21	SWITCH, KEYBOARD (MIC GUITAR/KARAOKE)			
R735	1-249-417-11	CARBON	1K	5%	1/4W	S731	1-762-875-21	SWITCH, KEYBOARD (GUITAR DISTORTION)			
R736	1-249-401-11	CARBON	47	5%	1/4W	S732	1-762-875-21	SWITCH, KEYBOARD (PTY) (AEP, UK)			
R737	1-247-807-31	CARBON	100	5%	1/4W	S736	1-473-392-11	ENCODER, ROTARY (VOLUME)			
R738	1-247-807-31	CARBON	100	5%	1/4W	*****					
R739	1-247-807-31	CARBON	100	5%	1/4W	SUB TRANS BOARD					
R740	1-249-429-11	CARBON	10K	5%	1/4W	*****					
R771	1-249-403-11	CARBON	68	5%	1/4W	< CAPACITOR >					
R772	1-249-403-11	CARBON	68	5%	1/4W						
R773	1-249-403-11	CARBON	68	5%	1/4W	△ C901	1-113-925-11	CERAMIC	0.01uF	20%	250V
R774	1-249-403-11	CARBON	68	5%	1/4W	< CONNECTOR >					
R775	1-249-403-11	CARBON	68	5%	1/4W						
R776	1-249-403-11	CARBON	68	5%	1/4W						
R777	1-249-403-11	CARBON	68	5%	1/4W	* CN902	1-564-321-21	PIN, CONNECTOR 2P (US, CND, AEP, UK, MX)			
R778	1-249-403-11	CARBON	68	5%	1/4W	CN902	1-568-106-11	PIN, CONNECTOR 4P (E2, EA, SP, AR)			
R779	1-249-403-11	CARBON	68	5%	1/4W	< DIODE >					
R780	1-249-403-11	CARBON	68	5%	1/4W						
R783	1-249-403-11	CARBON	68	5%	1/4W	D901	8-719-991-33	DIODE 1SS133T-77			
R784	1-249-407-11	CARBON	150	5%	1/4W	< RELAY >					
R785	1-249-407-11	CARBON	150	5%	1/4W						
R786	1-249-407-11	CARBON	150	5%	1/4W	△ RY901	1-755-276-11	RELAY, POWER			
R787	1-249-407-11	CARBON	150	5%	1/4W	< SWITCH >					
R788	1-249-407-11	CARBON	150	5%	1/4W						
R789	1-249-403-11	CARBON	68	5%	1/4W						
R790	1-249-409-11	CARBON	220	5%	1/4W	△ S901	1-786-055-21	SELECTOR, VOLTAGE (VOLTAGE SELECTOR)	(E2, EA, SP, AR)		
R791	1-249-409-11	CARBON	220	5%	1/4W	< TRANSFORMER >					
R792	1-249-406-11	CARBON	120	5%	1/4W						
< SWITCH >						△ T901	1-435-826-11	TRANSFORMER, POWER (US, CND)			
S701	1-762-875-21	SWITCH, KEYBOARD (TUNER MEMORY)	△ T901 1-435-827-11 TRANSFORMER, POWER (AEP, UK)								
S702	1-762-875-21	SWITCH, KEYBOARD (ENTER/NEXT)	△ T901 1-437-331-11 TRANSFORMER, POWER (E)								
S703	1-762-875-21	SWITCH, KEYBOARD (–)	*****								
S704	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)	* 1-659-058-13 TABLE SENSOR BOARD								
S705	1-762-875-21	SWITCH, KEYBOARD (+)	*****								
S706	1-762-875-21	SWITCH, KEYBOARD (STEREO/MONO)	< PHOTO INTERRUPTER >								
S707	1-762-875-21	SWITCH, KEYBOARD (TUNING MODE)									
S708	1-762-875-21	SWITCH, KEYBOARD (ENTER)	IC202 8-749-924-18 PHOTO INTERRUPTER RPI-1391								
S709	1-762-875-21	SWITCH, KEYBOARD (P.FILE)	< RESISTOR >								
S710	1-762-875-21	SWITCH, KEYBOARD (FLAT)									
S712	1-762-875-21	SWITCH, KEYBOARD (SURROUND)	R207 1-249-416-11 CARBON 820 5% 1/4W								
S713	1-762-875-21	SWITCH, KEYBOARD (GROOVE)	*****								
S714	1-762-875-21	SWITCH, KEYBOARD (SUPER WOOFER)									
S715	1-762-875-21	SWITCH, KEYBOARD (SUPER WOOFER MODE)									
S716	1-762-875-21	SWITCH, KEYBOARD (GUITAR)									
S717	1-762-875-21	SWITCH, KEYBOARD (JAZZ)									
S718	1-762-875-21	SWITCH, KEYBOARD (SAMBA)									

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HCD-XG60/XG500

TC-A

TC-B

TRANS

Ref. No.	Part No.	Description	Remark
TC-A BOARD			
*****			
< LED >			
D621	8-719-058-03	LED SEL5423E-TP15 (▷)	
D622	8-719-058-03	LED SEL5423E-TP15 (◁)	
< RESISTOR >			
R681	1-249-411-11	CARBON 330 5% 1/4W	
R682	1-249-413-11	CARBON 470 5% 1/4W	
R683	1-249-414-11	CARBON 560 5% 1/4W	
R684	1-249-415-11	CARBON 680 5% 1/4W	
R685	1-249-417-11	CARBON 1K 5% 1/4W	
R686	1-249-418-11	CARBON 1.2K 5% 1/4W	
R687	1-249-403-11	CARBON 68 5% 1/4W	
R688	1-249-403-11	CARBON 68 5% 1/4W	
< VARIABLE RESISTOR >			
RV601	1-225-739-11	RES, VAR CARBON 50K (GUITAR LEVEL)	
RV602	1-225-739-11	RES, VAR CARBON 50K (MIC LEVEL)	
< SWITCH >			
S621	1-762-875-21	SWITCH, KEYBOARD (▷)	
S622	1-762-875-21	SWITCH, KEYBOARD (◁)	
S623	1-762-875-21	SWITCH, KEYBOARD (■)	
S624	1-762-875-21	SWITCH, KEYBOARD (I◀◀ AMS ▶▶▶ I◀◀)	
S625	1-762-875-21	SWITCH, KEYBOARD (I◀◀ AMS ▶▶▶ ▶▶▶)	
S626	1-762-875-21	SWITCH, KEYBOARD (DOLBY NR)	
S627	1-762-875-21	SWITCH, KEYBOARD (DIRECTION)	
*****			
TC-B BOARD			
*****			
< LED >			
D611	8-719-058-03	LED SEL5423E-TP15 (◁)	
D612	8-719-058-03	LED SEL5423E-TP15 (▷)	
D613	8-719-057-97	LED SEL5923A-TP15 (■)	
D614	8-719-058-04	LED SEL5223S-TP15 (● REC)	
< SWITCH >			
S621	1-762-875-21	SWITCH, KEYBOARD (▷)	
S622	1-762-875-21	SWITCH, KEYBOARD (◁)	
S623	1-762-875-21	SWITCH, KEYBOARD (■)	
S624	1-762-875-21	SWITCH, KEYBOARD (I◀◀ AMS ▶▶▶ I◀◀)	
S625	1-762-875-21	SWITCH, KEYBOARD (I◀◀ AMS ▶▶▶ ▶▶▶)	
S626	1-762-875-21	SWITCH, KEYBOARD (DOLBY NR)	
S627	1-762-875-21	SWITCH, KEYBOARD (DIRECTION)	
*****			
TRANS BOARD			
*****			
1-533-217-31	HOLDER, FUSE		
7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S		
< CAPACITOR >			
C834	1-130-777-00	MYLAR 0.1uF 10% 100V	
C893	1-130-777-00	MYLAR 0.1uF 10% 100V	

Ref. No.	Part No.	Description	Remark
C961	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C963	1-162-306-11	CERAMIC 0.01uF 30% 16V	
< CONNECTOR >			
* CN951	1-564-214-11	PIN, CONNECTOR (B3PS-VH) 3P (XG60)	
* CN952	1-564-526-11	PLUG, CONNECTOR 11P	
< DIODE >			
D832	8-719-510-68	DIODE D5SBA204101	
< FUSE >			
△ F951	1-532-506-31	FUSE (T6.3AL/250V) (E2, EA, SP, AR)	
△ F961	1-533-949-31	FUSE, CYLINDRICAL (TIME LUG) (T8AL/250V) (XG60)	
△ F962	1-533-949-31	FUSE, CYLINDRICAL (TIME LUG) (T8AL/250V) (XG60)	
△ F963	1-532-506-31	FUSE (T6.3AL/250V) (AEP, UK, E)	
△ F963	1-533-310-11	FUSE, GLASS CYLINDRICAL (DIA.5) (6.3A/125V) (US, CND)	
△ F964	1-532-506-31	FUSE (T6.3AL/250V) (AEP, UK, E)	
△ F964	1-533-310-11	FUSE, GLASS CYLINDRICAL (DIA.5) (6.3A/125V) (US, CND)	
< RESISTOR >			
△ R951	1-219-122-91	FUSIBLE 0.33 5% 1/4W F	
△ R952	1-219-122-91	FUSIBLE 0.33 5% 1/4W F	
△ R953	1-219-119-81	FUSIBLE 0.1 5% 1/4W F	
R961	1-219-777-91	CARBON 3.3M 10% 1/2W (US, CND)	
*****			
MISCELLANEOUS			
*****			
4	1-769-977-11	WIRE (FLAT TYPE) (13 CORE) (EXCEPT AEP, UK)	
4	1-773-009-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)	
5	1-693-481-11	TUNER PACK (FM/AM TUNER UNIT) (US)	
5	1-693-484-11	TUNER PACK (FM/AM TUNER UNIT) (E2)	
5	1-693-486-11	TUNER PACK (FM/AM TUNER UNIT) (CND)	
5	1-693-488-11	TUNER PACK (FM/AM TUNER UNIT) (EA, SP, MX, AR)	
5	1-693-490-11	TUNER PACK (FM/AM TUNER UNIT) (AEP, UK)	
6	1-535-706-21	PLUG, JUMPER (XG60: MX/XG500)	
72	1-773-056-11	WIRE (FLAT TYPE) (17 CORE)	
73	1-773-032-11	WIRE (FLAT TYPE) (15 CORE)	
109	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)	
112	1-773-150-11	WIRE (FLAT TYPE) (21 CORE)	
151	1-790-287-11	WIRE (FLAT TYPE) (19 CORE)	
△ 153	1-575-653-11	CORD, POWER (MX)	
△ 153	1-777-071-81	CORD, POWER (AEP, UK, EA, SP)	
△ 153	1-783-820-11	CORD, POWER (US, CND)	
△ 153	1-783-941-12	CORD, POWER (AR)	
△ 153	1-791-901-11	CORD, POWER (E2)	
465	1-454-887-21	SOLENOID, PLUNGER	
507	1-452-925-21	MAGNET ASSY	
△ 601	8-820-020-02	OPTICAL PICK-UP KSS-213D/Q-RP	
602	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)	
HP101	A-2004-778-A	BASE (A) ASSY, HEAD	
HRPE101A	2004-779-A	BASE (B) ASSY, HEAD	

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Ref. No.	Part No.	Description	Remark
M1	X-3378-246-1	MOTOR ASSY (CAPSTAN) (TAPE)	
M101	X-4917-523-3	MOTOR ASSY (SPINDLE) (CD)	
M102	X-4917-504-1	MOTOR ASSY (SLED) (CD)	
M201	A-4660-977-A	MOTOR ASSY (TABLE) (CD)	
M901	1-763-072-11	FAN, D. C. (EXCEPT AEP, UK)	
△ T951	1-433-606-11	TRANSFORMER, POWER (XG60)	
△ T951	1-435-797-11	TRANSFORMER, POWER (US, CND)	
△ T951	1-435-798-11	TRANSFORMER, POWER (AEP, UK)	

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#### HARDWARE LIST

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#1	7-685-871-01	SCREW +BVTT 3X6 (S)
#2	7-685-872-09	SCREW +BVTT 3X8 (S)
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#4	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3
#5	7-685-881-09	SCREW +BVTT 4X8 (S)

#11	7-628-254-05	SCREW +PS 2.6X5
#12	7-685-781-09	SCREW +PTT 2X4 (S)
#13	7-623-921-01	RING, RETAINING, CAPSTAN

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#### ACCESSORIES & PACKING MATERIALS

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△	1-569-008-21	ADAPTOR, CONVERSION 2P (EA, SP)
△	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)

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## REVISION HISTORY

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