

# HCD-CPX11

## SERVICE MANUAL

Ver 1.1 2004.04



*AEP Model  
UK Model  
Korean Model  
Australian Model*

HCD-CPX11 is the Amplifier, CD player, Tape Deck and Tuner section in CMT-CPX11.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM80BH-F1BD81
	Optical Pick-up Name	KSM-215DCP
Tape deck Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Name	CMAL1Z-236A

### SPECIFICATIONS

#### Amplifier section

##### European model:

DIN power output (rated): 55 + 55 W  
(4 ohms at 1 kHz, DIN)  
Continuous RMS power output (reference):  
75 + 75 W  
(4 ohms at 1 kHz, 10% THD)

##### Other models:

The following measured at 220 – 240 V AC, 50/60 Hz  
DIN power output (rated): 55 + 55 W  
(4 ohms at 1 kHz, DIN)  
Continuous RMS power output (reference):  
75 + 75 W  
(4 ohms at 1 kHz, 10% THD)

#### Inputs

MD/VIDEO IN (phono jacks):  
Sensitivity 450/250 mV,  
impedance 47 kilohms

#### Outputs

CD DIGITAL OUT: Optical Wavelength:  
660 nm

PHONES: accepts headphones with  
an impedance of 8 ohms or  
more

SPEAKER: accepts impedance of 4 ohms

#### CD player section

Laser Semiconductor laser  
(CD:  $\lambda=780$  nm)  
Emission duration:  
continuous  
Frequency response CD: 2 Hz – 20 kHz  
Wavelength 780 – 790 nm

#### Tape deck section

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

#### Tuner section

FM stereo, FM/AM superheterodyne tuner

##### FM tuner section

Tuning range 87.5 – 108.0 MHz (50 kHz  
step)  
Antenna FM wire antenna  
Antenna terminals 75 ohms unbalanced  
Intermediate frequency 10.7 MHz

##### AM tuner section

Tuning range 531 – 1,602 kHz  
European model: (with the tuning interval  
set at 9 kHz)

Other models: 530 – 1,710 kHz  
(with the tuning interval  
set at 10 kHz)  
531 – 1,602 kHz  
(with the tuning interval  
set at 9 kHz)  
Antenna AM loop antenna, external  
antenna terminal  
Intermediate frequency 450 kHz

#### General

Power requirements  
European model: 230 V AC, 50/60 Hz  
Korean model: 220 V AC, 60 Hz  
Australian model: 230 – 240 V AC, 50/60 Hz  
Power consumption  
European model: 50 W  
0.3 W (in Power Saving  
mode)  
Korean model: 50 W  
Other models: 50 W  
Dimensions (w/h/d) incl. projecting parts and controls  
Approx. 175 × 240.5 × 291  
mm  
Mass Approx. 4.3 kg

Design and specifications are subject to change  
without notice.

## MICRO HI-FI COMPONENT SYSTEM

9-877-766-02  
2004D16-1  
© 2004.04

**Sony Corporation**  
Home Audio Company  
Published by Sony Engineering Corporation

# SONY®

## Notes on chip component replacement

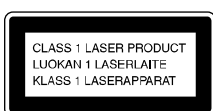
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

## Flexible Circuit Board Repairing

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

### CAUTION

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



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

## UNLEADED SOLDER

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

### LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

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

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

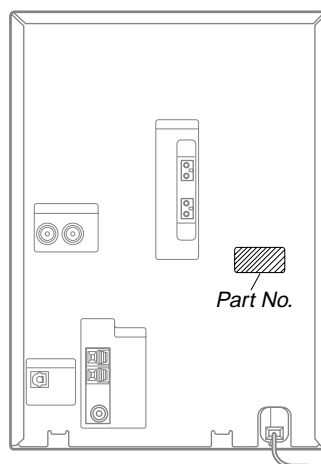
The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter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

## MODEL IDENTIFICATION

– Back Panel –



Model Name	Part No.
AEP and UK models	4-252-358-0□
Korean model	4-252-358-2□
Australian model	4-252-358-3□

## SAFETY-RELATED COMPONENT WARNING!!

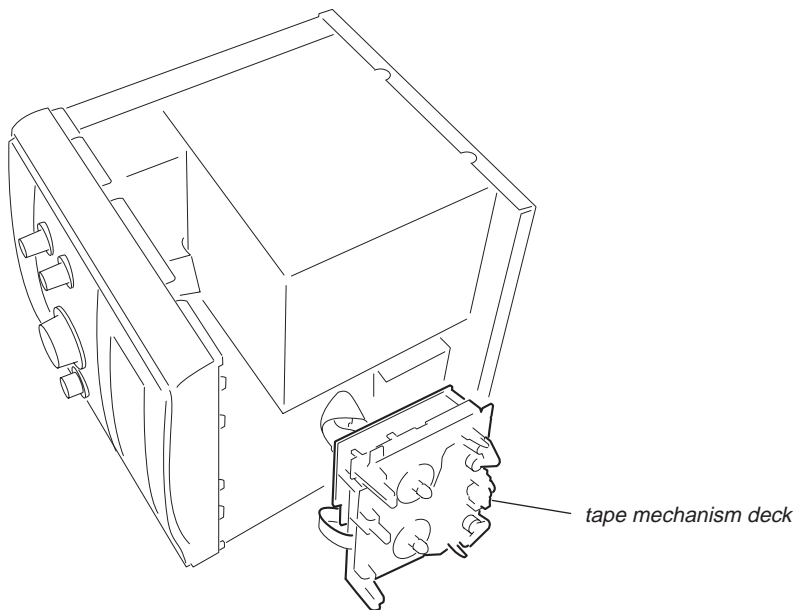
COMPONENTS IDENTIFIED BY MARK  $\triangle$  OR DOTTED LINE WITH MARK  $\triangle$  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

## TABLE OF CONTENTS

<b>1. SERVICING NOTES</b> .....	4	6-2. Printed Wiring Board – BD81A Section – .....	32
<b>2. GENERAL</b> .....	9	6-3. Schematic Diagram – BD81A Section – .....	33
<b>3. DISASSEMBLY</b>		6-4. Printed Wiring Board – TC Section – .....	34
3-1. Cover .....	12	6-5. Schematic Diagram – TC Section – .....	35
3-2. Front Panel Section .....	12	6-6. Printed Wiring Board – MAIN Section – .....	36
3-3. TC Board, Mechanical Deck .....	13	6-7. Schematic Diagram – MAIN Section – .....	37
3-4. PANEL Board .....	13	6-8. Printed Wiring Board – PRE AMP Section – .....	38
3-5. MAIN Board, PRE AMP Board .....	14	6-9. Schematic Diagram – PRE AMP Section – .....	39
3-6. CD Mechanism Deck (CDM80BH-F1BD81) .....	14	6-10. Printed Wiring Board – LCD/DRIVER Section – .....	40
3-7. Chassis (Top) .....	15	6-11. Schematic Diagram – LCD/DRIVER Section – .....	41
3-8. Lever (Loading R/L) .....	16	6-12. Printed Wiring Board – PANEL Section – .....	42
3-9. Disc Stop Lever, Disc Sensor Lever .....	17	6-13. Schematic Diagram – PANEL Section – .....	43
3-10. DRIVER Board .....	17	6-14. Printed Wiring Board – S-MASTER Section – .....	44
3-11. BD81A Board .....	18	6-15. Schematic Diagram – S-MASTER Section – .....	45
3-12. BU Section .....	18	6-16. IC Pin Function Description .....	51
3-13. Optical Pick-up (KSM-215DCP) .....	19	<b>7. EXPLODED VIEWS</b>	
3-14. Lever (BU Lock) .....	19	7-1. MAIN Section .....	57
3-15. Close Lever .....	20	7-2. Front Panel Section .....	58
3-16. Dir Lever, Gear (IDL-B) .....	20	7-3. Lid (TC) Section .....	59
3-17. Gear (IDL-C) .....	21	7-4. Chassis Section .....	60
<b>4. TEST MODE</b> .....	22	7-5. S-MASTER AMP Section .....	61
<b>5. ELECTRICAL ADJUSTMENTS</b>		7-6. CD Mechanism Deck Section-1 (CDM80BH-F1BD81) .....	62
Deck Section .....	24	7-7. CD Mechanism Deck Section-2 (CDM80BH-F1BD81) .....	63
CD Section .....	25	7-8. CD Mechanism Deck Section-3 (CDM80BH-F1BD81) .....	64
<b>6. DIAGRAMS</b>		7-9. Base Unit Section (BU-F1BD81A) .....	65
6-1. Block Diagram – BD/DRIVER Section – .....	28	<b>8. ELECTRICAL PARTS LIST</b> .....	66
– TUNER/TAPE DECK Section – .....	29		
– MAIN Section – .....	30		
– DISPLAY/POWER SUPPLY Section – .....	31		

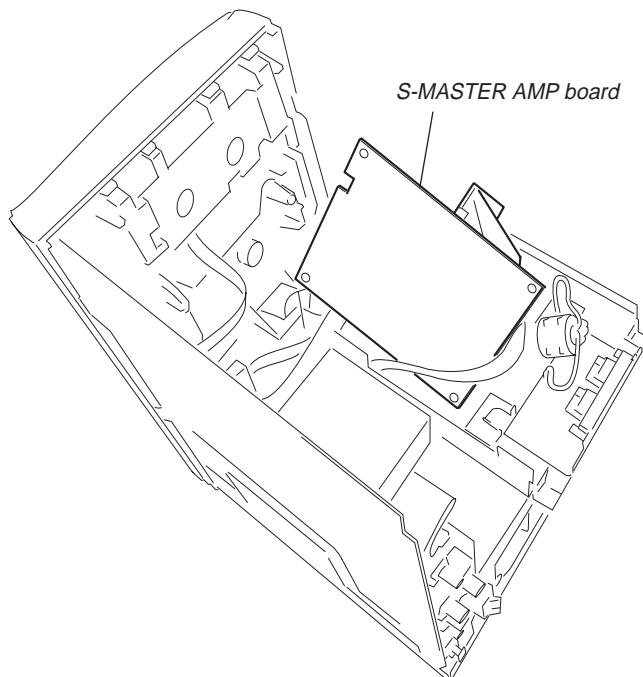
## SECTION 1 SERVICING NOTES

### SERVICE POSITION OF THE TAPE MECHANISM DECK



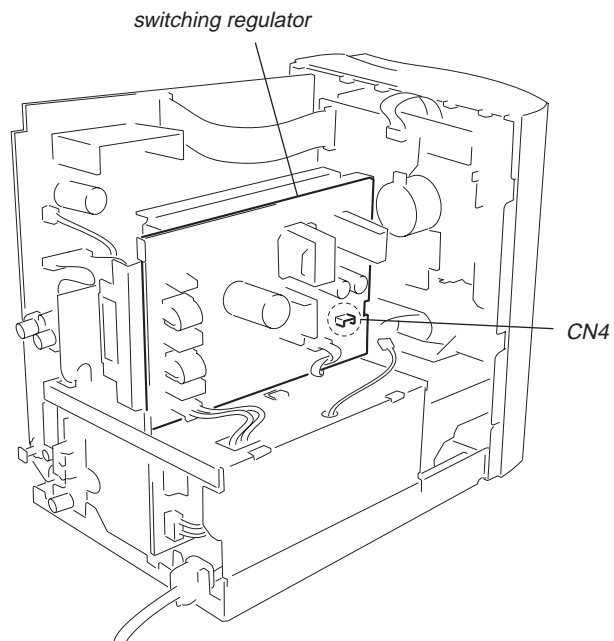
### SERVICE POSITION OF THE S-MASTER AMP BOARD

- Remove the switching regulator, the S-MASTER AMP board block first, then remove the S-MASTER AMP board from the S-MASTER AMP board block.

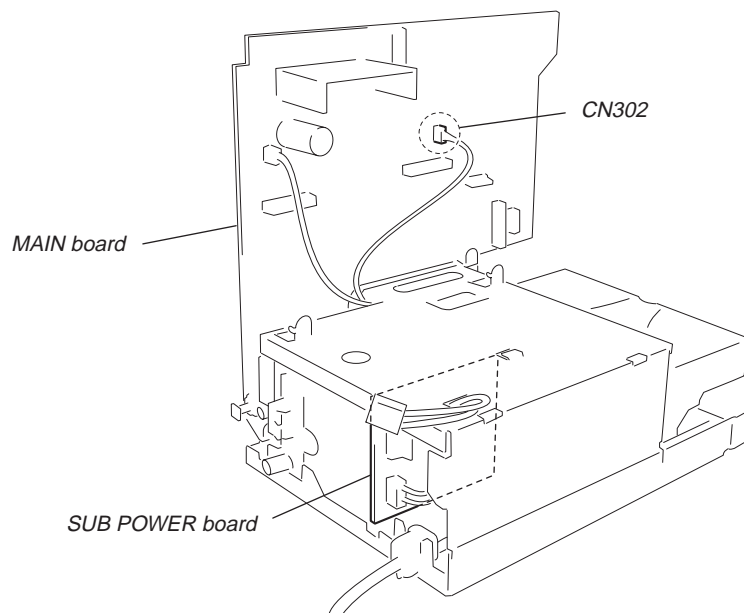


**JUDGING WHETHER THE SWITCHING REGULATOR IS GOOD OR DEFECTIVE**

- The switching regulator is judged to be good when the terminal voltage at the switching regulator CN4 is 12 V.

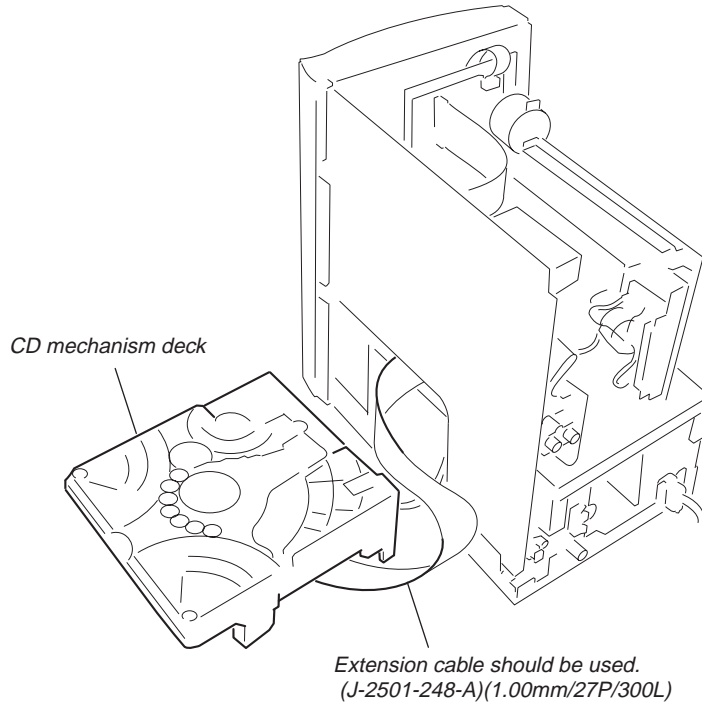
**JUDGING WHETHER THE SUB POWER BOARD IS GOOD OR DEFECTIVE**

- It is judged to be good when the voltage between pin 2 (+4 V) and pin 3 (GND) of the MAIN board CN302 is 4 V.



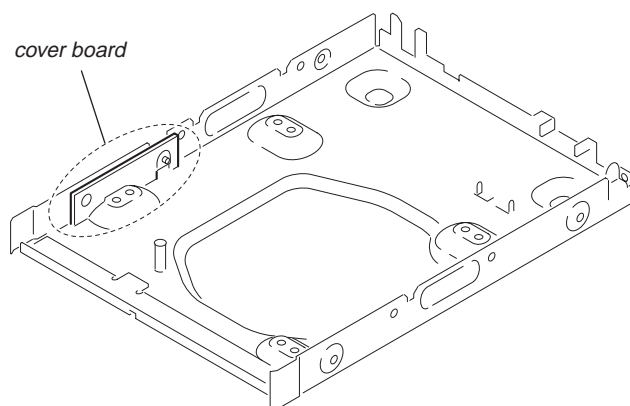
## SERVICE POSITION OF THE CD MECHANISM DECK

- Remove the front panel and the circuit boards once in order to remove the CD mechanism deck.  
After removing the CDM, reassemble the panel and the circuit boards back to the original state.



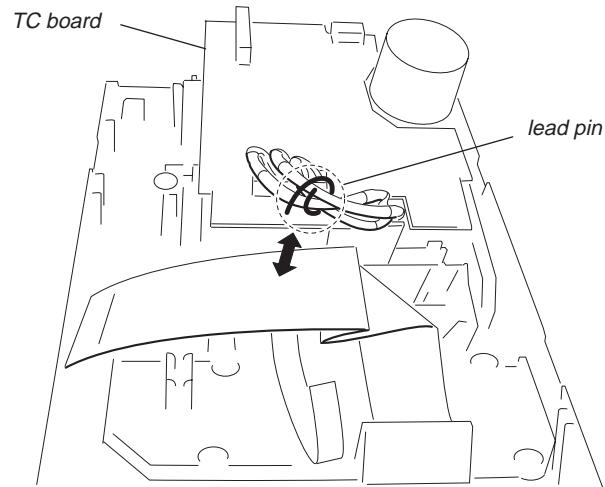
## COVER BOARD

- This is the board used to blind the slot. Do not remove.

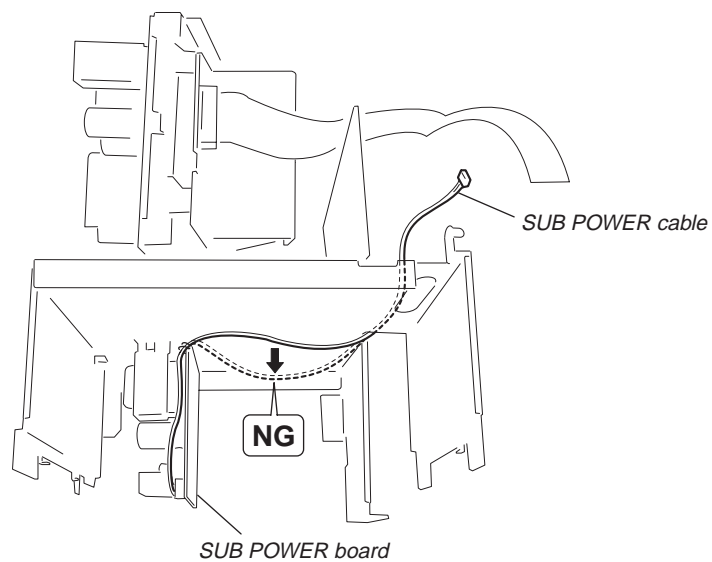


**FIXING THE TC CABLES**

- To prevent cables from noise, fix the cables with the lead pin so that the cables do not contact with the flexible board.

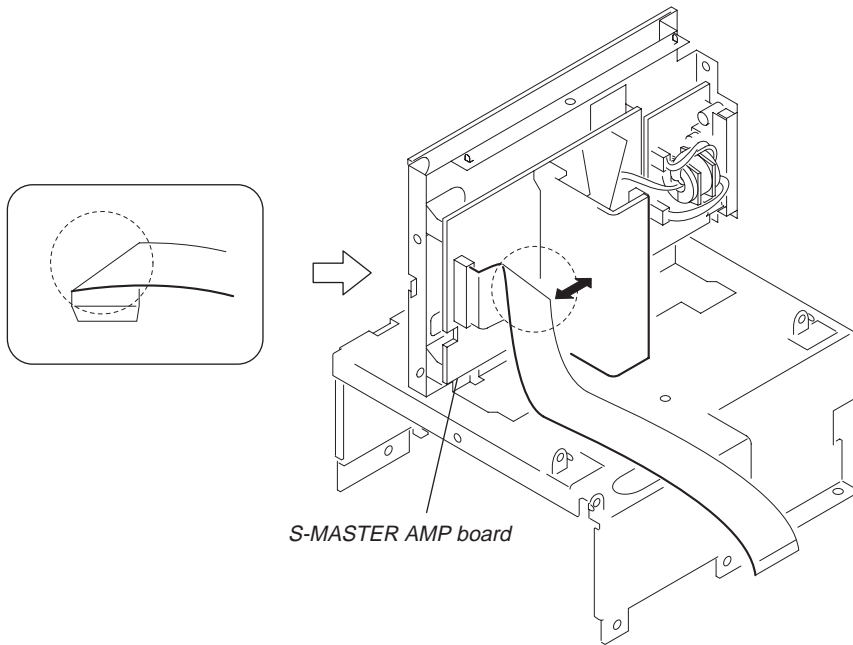
**PREVENTING THE SUB POWER CABLES FROM SAGGING DOWN**

- Be careful not to contact with the CD mechanism deck.



**CAUTION SO THAT THE FLEXIBLE BOARD SHOULD NOT CONTACT WITH THE HEAT SINK**

- When the flexible board is replaced, give the folding at the same position of the new flexible board with that of the old flexible board.





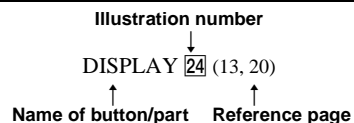
## SECTION 2 GENERAL

This section is extracted from instruction manual.

### List of button locations and reference pages

How to use this page

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



#### Main unit

**ALPHABETICAL ORDER**

**A - O**

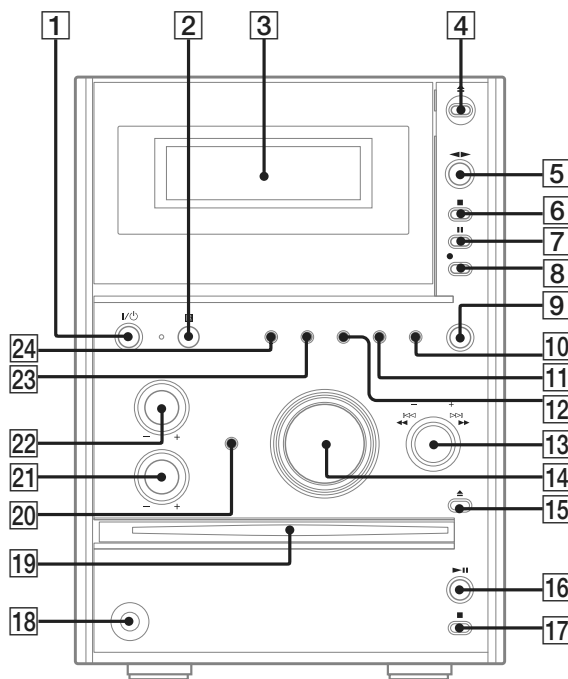
- BASS +/- 21 (16)
- CD SYNCHRO 11 (15)
- DIRECTION 23 (14, 15, 16, 18)
- Disc slot 19 (8)
- DISPLAY 24 (13, 20)
- Display window 3
- DSGX 20 (16)
- FM MODE 12 (12, 25)
- FUNCTION 10 (8, 10, 12, 14, 16, 23, 26)

**P - Z**

- PHONES jack 18
- PLAY MODE 23 (8, 10, 15, 25, 26)
- Remote sensor 2
- REPEAT 12 (9)
- TREBLE +/- 22 (16)
- TUNER/BAND 9 (11, 12)
- TUNING MODE 23 (11, 12)
- TUNING +/- 13 (11, 12)
- VOLUME 14 (17)

**BUTTON DESCRIPTIONS**

- I/⏻ (power) 1 (7, 12, 17, 18, 26)
- TAPE ▲ (eject) 4 (14)
- TAPE ◀▶ (play) 5 (14, 15, 16, 18)
- TAPE ■ (stop) 6 (14, 15, 16, 26)
- TAPE || (pause) 7 (14, 15, 16)
- TAPE ● REC (record) 8 (16)
- ⏮◀▶▶⏭ (rewind/fast forward, go back/go forward) 13 (9, 10, 14)
- CD ▶|| (play pause) 16 (8, 9, 10)
- CD ■ (stop) 17 (9, 12, 26)
- CD ▲ (eject) 15 (9)



## Remote control

### ALPHABETICAL ORDER

#### A - O

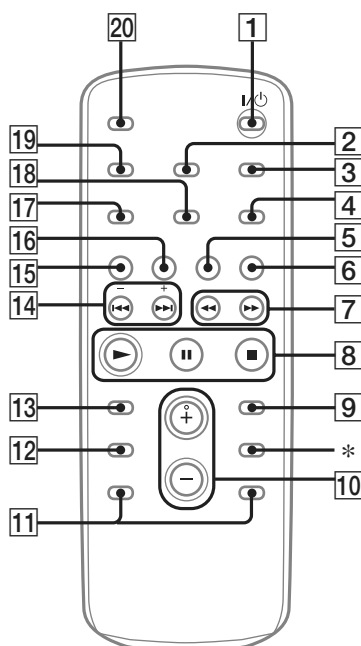
ALBUM +/- **11** (9, 10, 15)  
 CD **16** (8, 10)  
 CLEAR **13** (10)  
 CLOCK/TIMER SELECT **2**  
 (18, 19, 24)  
 CLOCK/TIMER SET **3** (7, 17,  
 18)  
 DISPLAY **19** (13, 20)  
 ENTER **9** (7, 10, 11, 17, 18, 19)  
 EQ **12** (16)  
 FM MODE **4** (12, 25)  
 FUNCTION **6** (8, 10, 12, 14, 16,  
 23, 26)

#### P - Z

PLAY MODE **18** (8, 10, 15, 25)  
 REPEAT **4** (9)  
 SLEEP **20** (17)  
 TAPE **15** (14)  
 TUNER/BAND **5** (11, 12)  
 TUNER MEMORY **17** (11)  
 TUNING MODE **18** (11, 12)  
 VOLUME +/- **10** (17)

### BUTTON DESCRIPTIONS

I/⏻ (power) **1** (7, 12, 17, 18)  
 ■ (stop) **8** (9, 14)  
 ⏸ (pause) **8** (9, 14)  
 ▶ (play) **8** (8, 10, 14, 18)  
 ⏮/▶▶ (skip back/skip  
 forward) **14** (7, 9, 10, 16, 17,  
 18, 19)  
 ⏪/▶▶ (rewind/fast forward)  
**7** (9, 14)  
 +/- (tuning) **14** (11, 12)



\* Button does not function with this model.

## Setting the clock

Use buttons on the remote for the operation.

- 1** Press I/⏻ to turn on the system.
- 2** Press CLOCK/TIMER SET.
- 3** Press ⏮/▶▶ repeatedly to set the hour.
- 4** Press ENTER.
- 5** Press ⏮/▶▶ repeatedly to set the minute.
- 6** Press ENTER.  
The clock starts working.

To adjust the clock

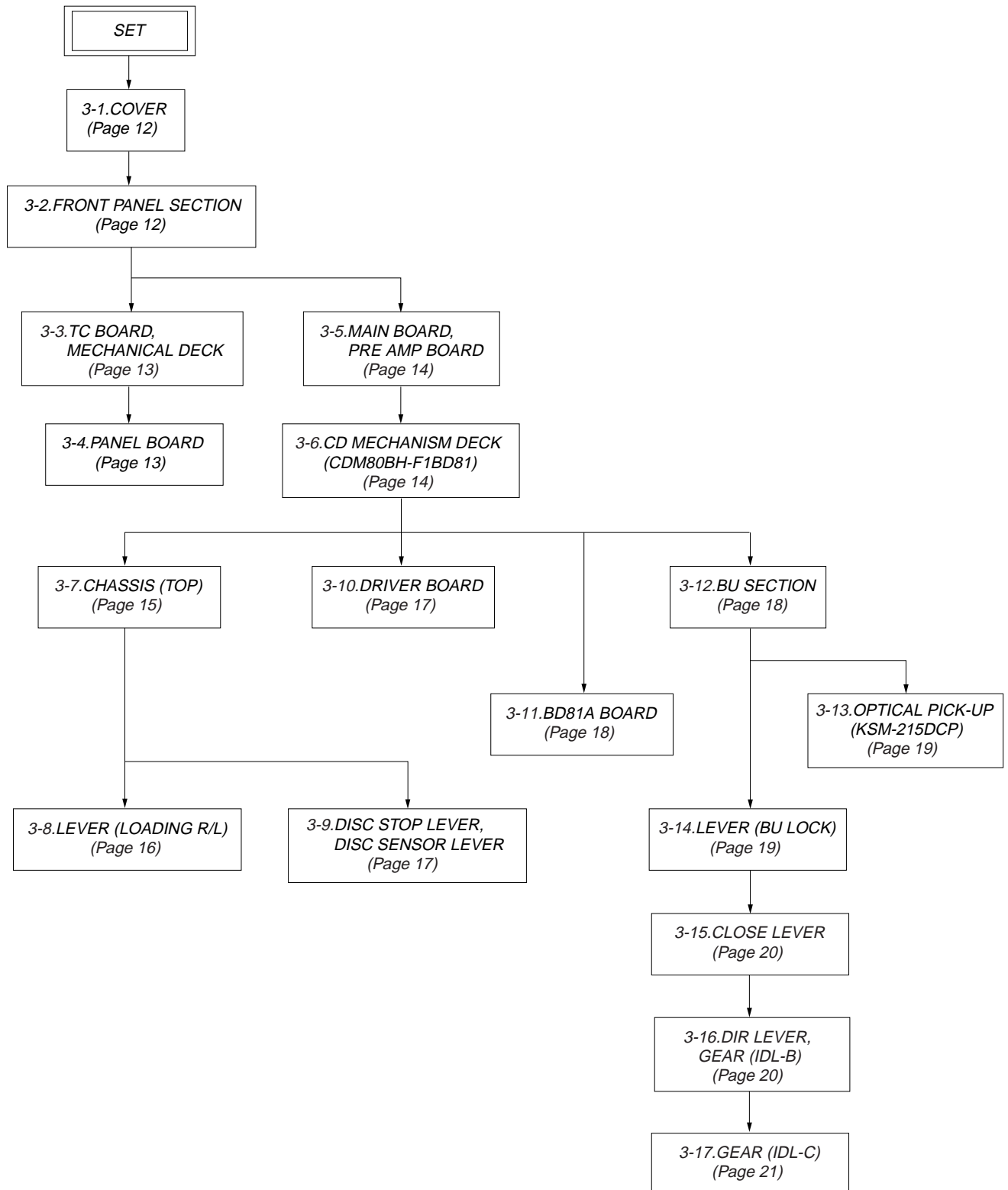
- 1** Press CLOCK/TIMER SET.
- 2** Press ⏮/▶▶ until "CLOCK SET" appears, then press ENTER.
- 3** Do the same procedures as step 3 to 6 above.

Note

The clock is not displayed in Power Saving Mode.

## SECTION 3 DISASSEMBLY

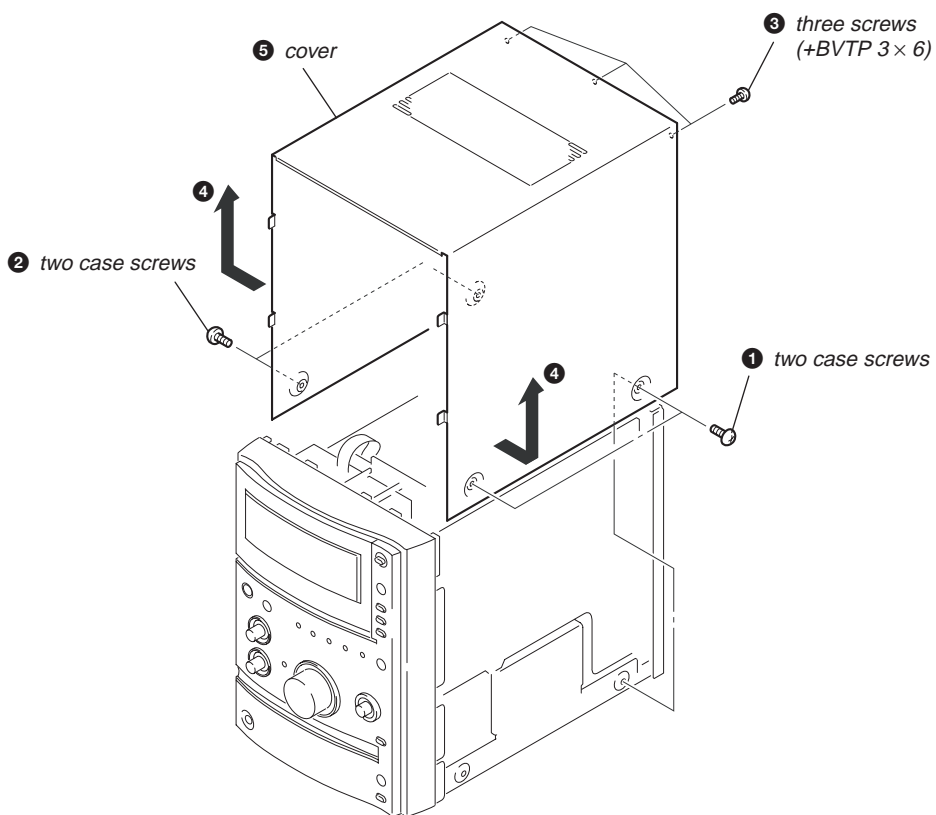
- This set can be disassembled in the order shown below.



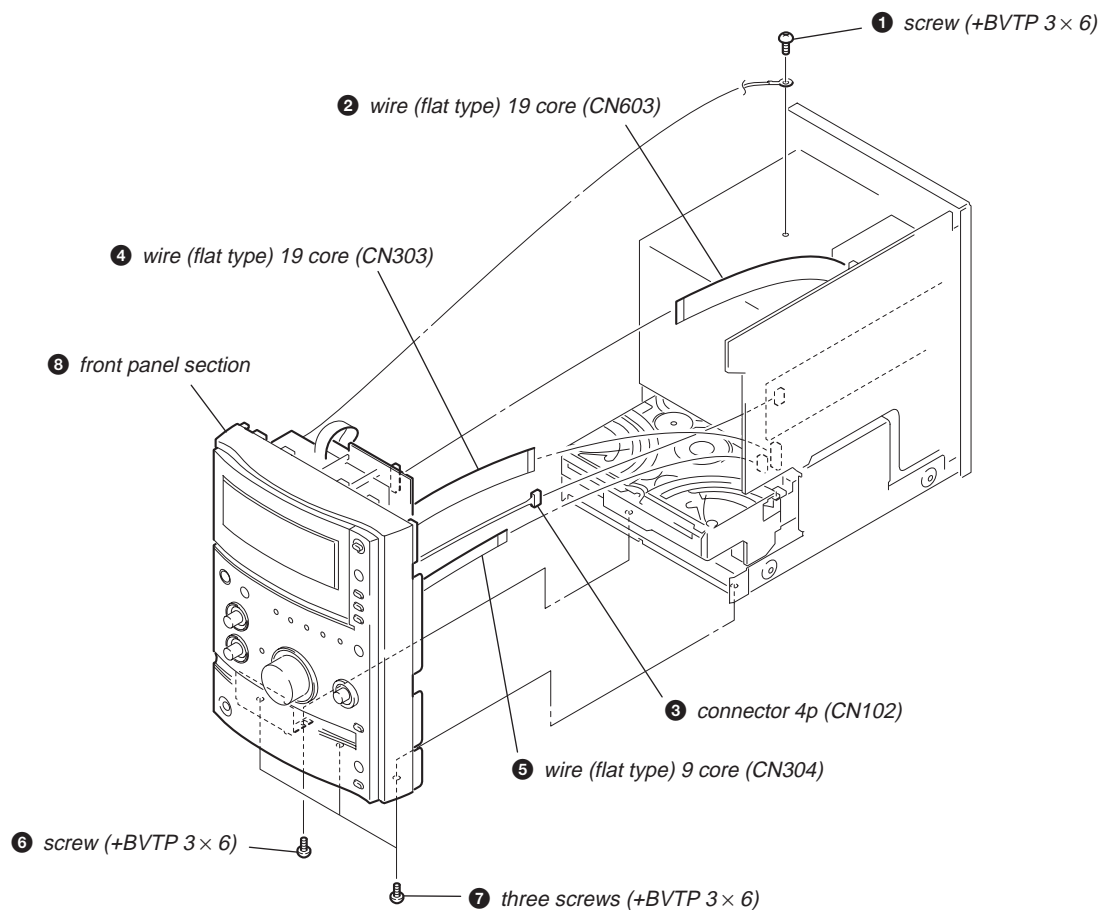
# HCD-CPX11

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

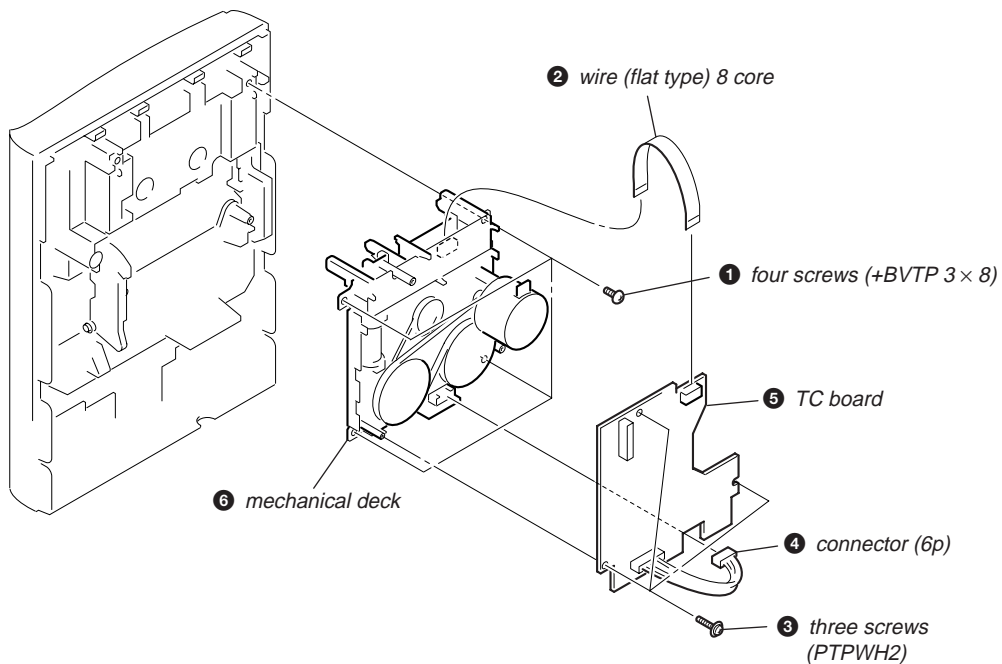
## 3-1. COVER



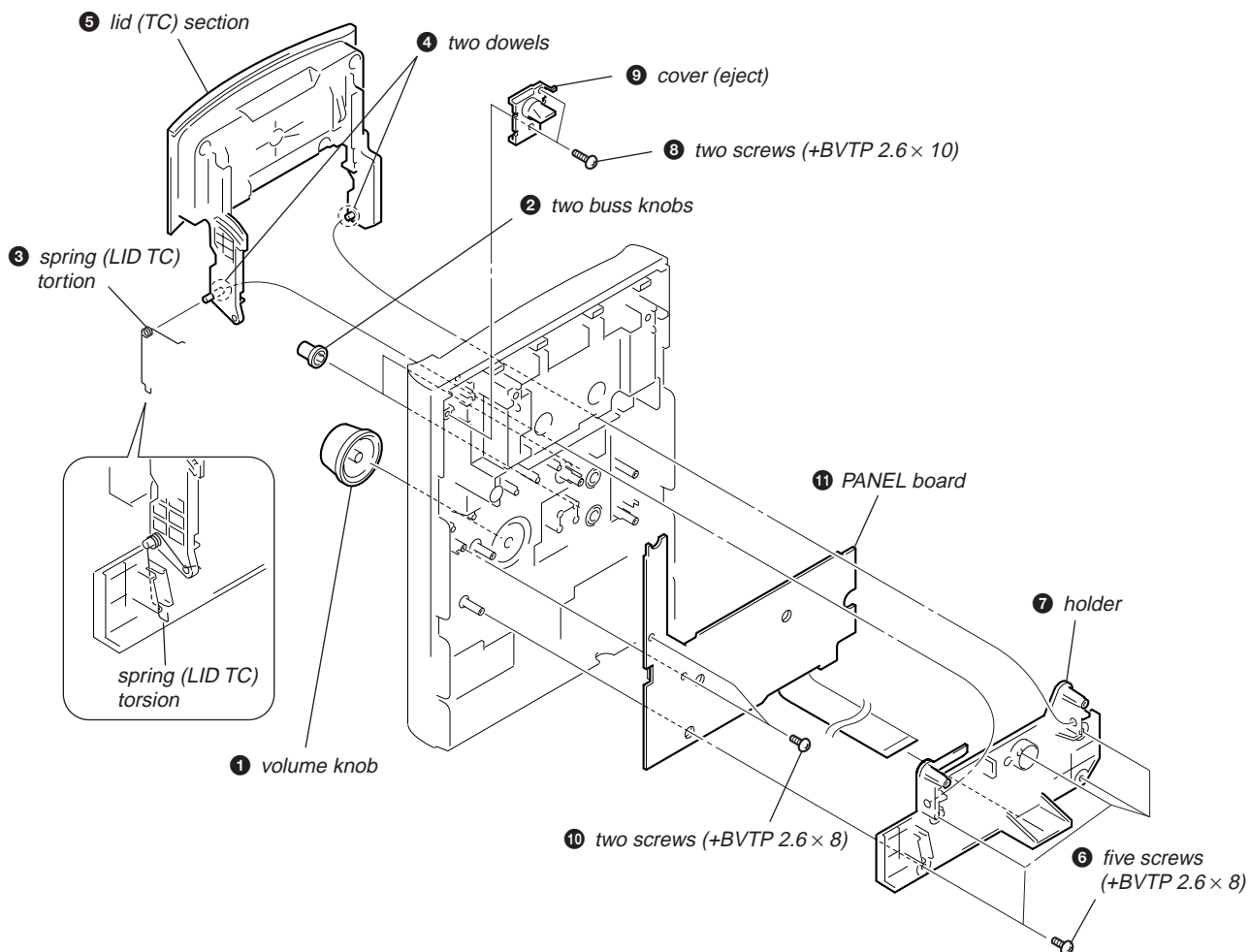
## 3-2. FRONT PANEL SECTION



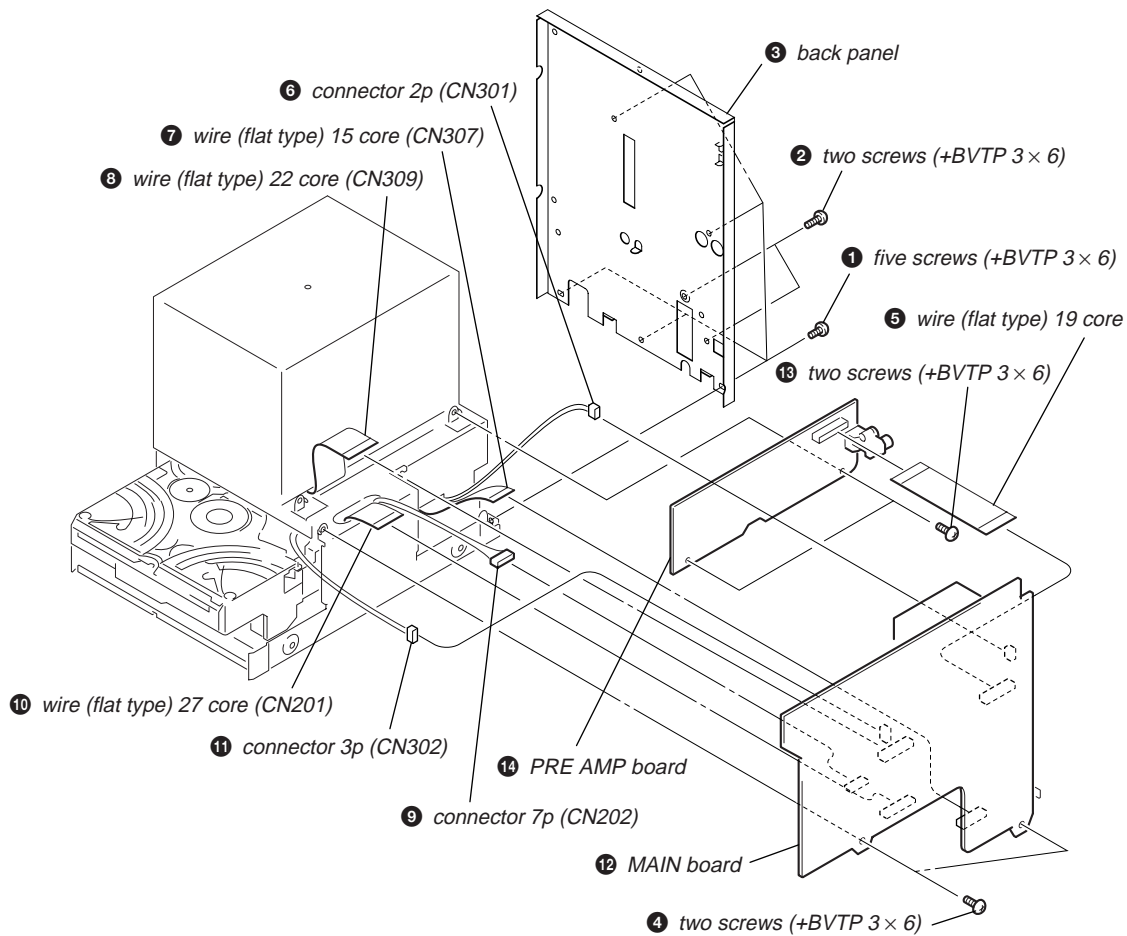
3-3. TC BOARD, MECHANICAL DECK



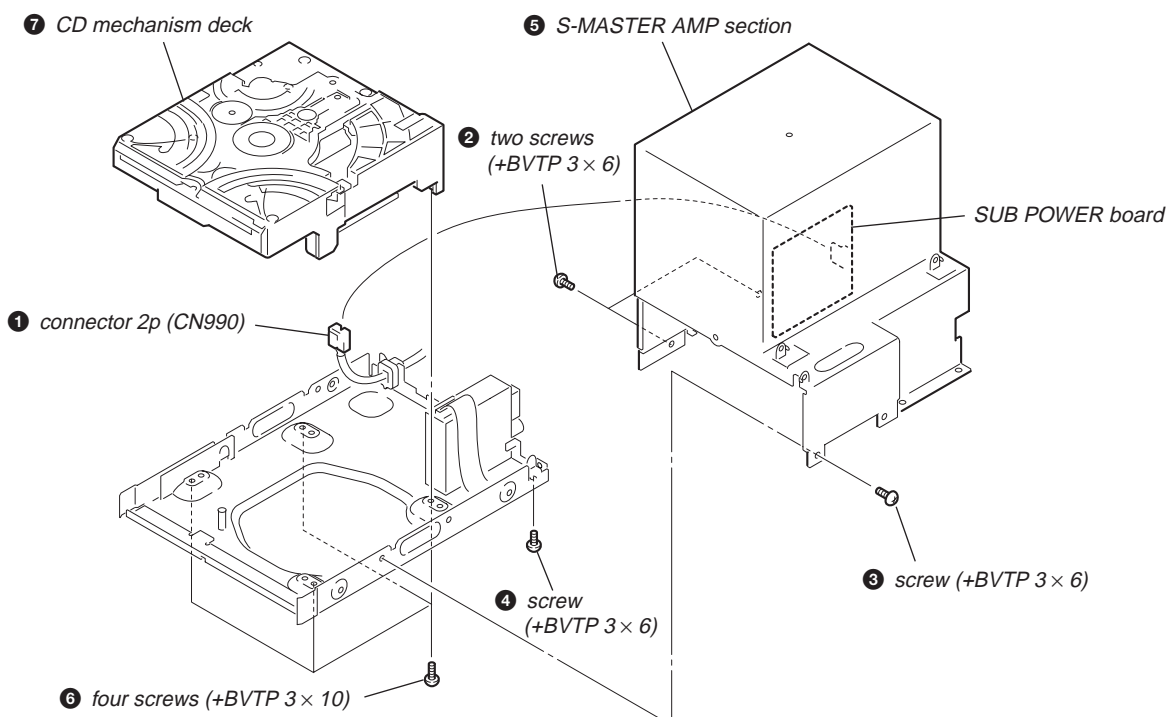
3-4. PANEL BOARD



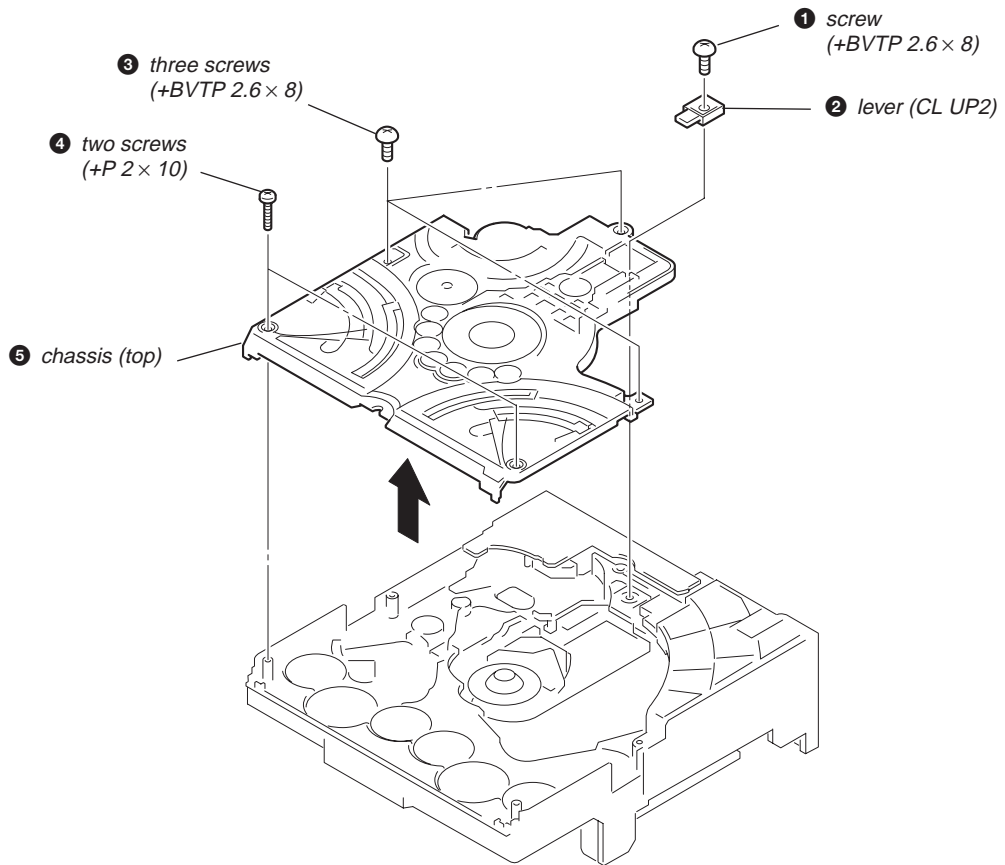
## 3-5. MAIN BOARD, PRE AMP BOARD



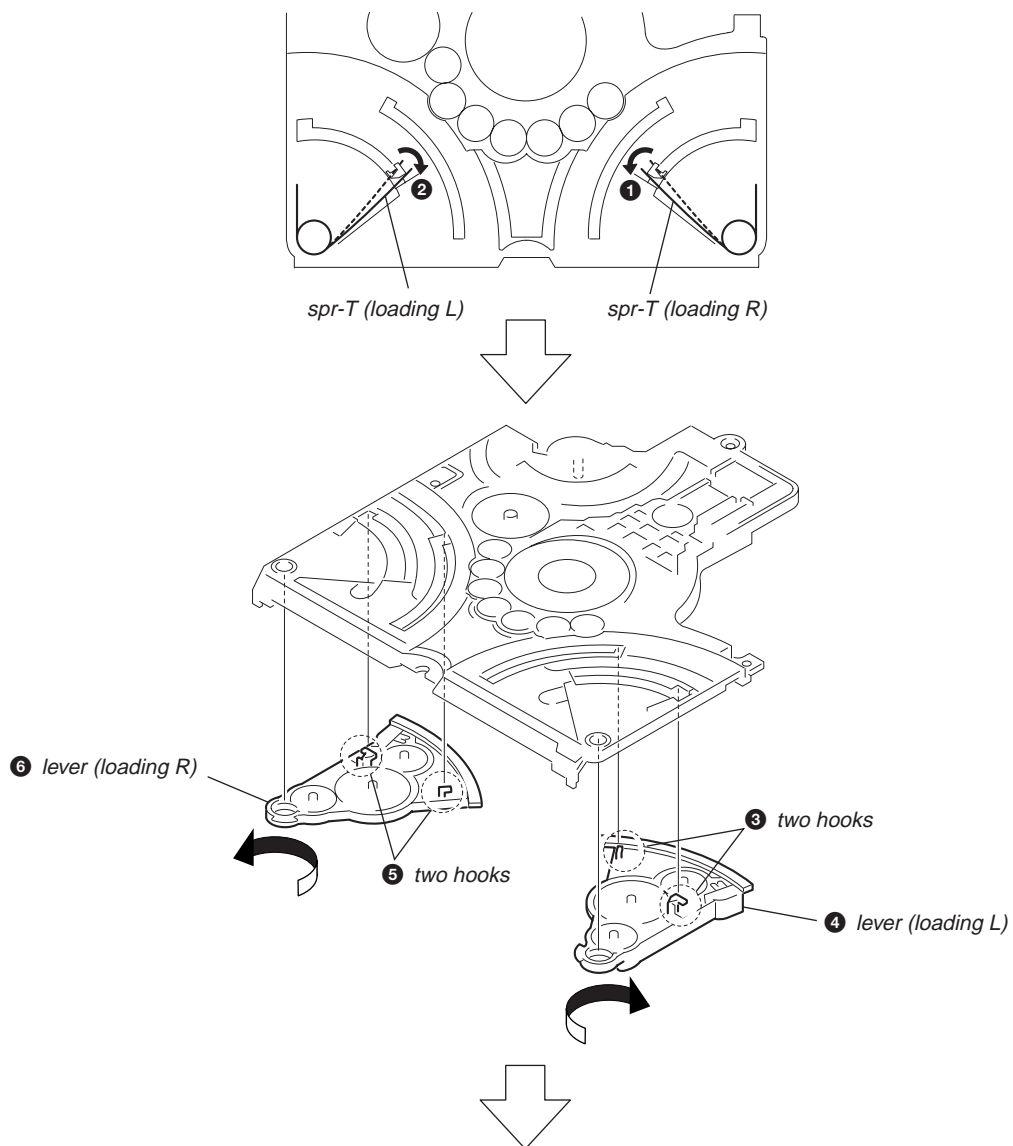
## 3-6. CD MECHANISM DECK (CDM80BH-F1BD81)



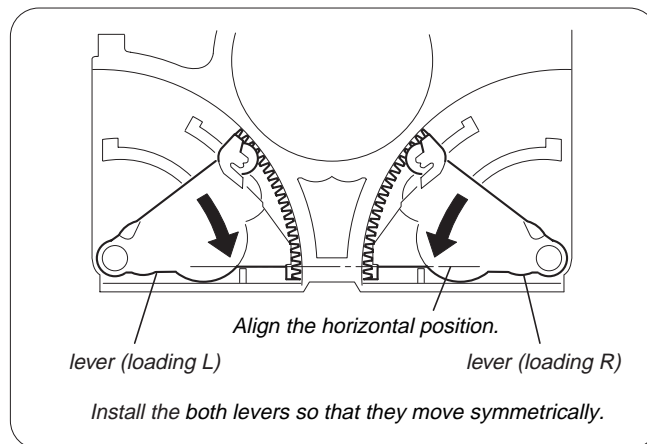
3-7. CHASSIS (TOP)



## 3-8. LEVER (LOADING R/L)

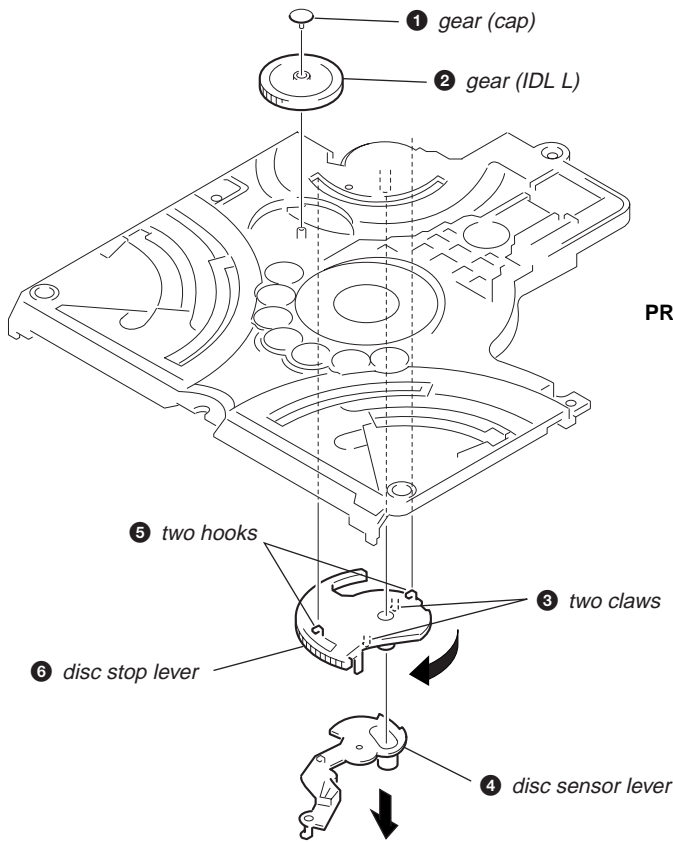


### PRECAUTION DURING LEVER (LOADING R / L) INSTALLATION

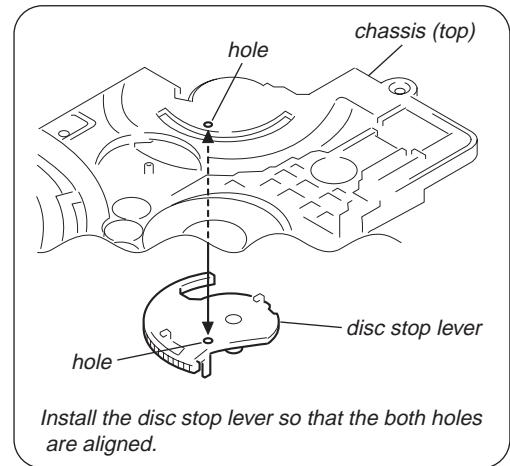




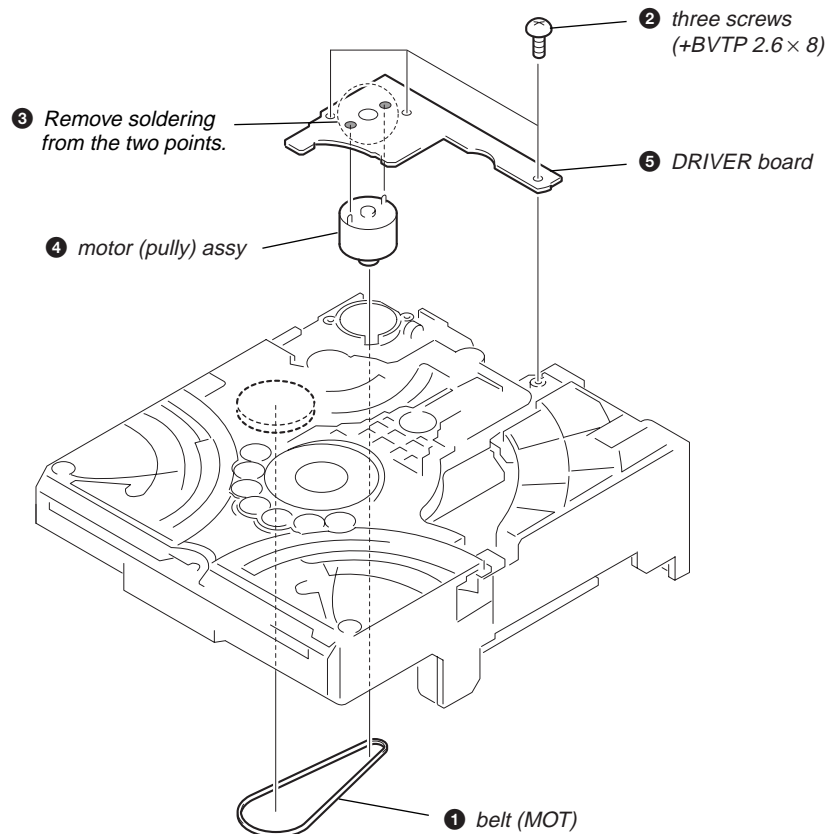
3-9. DISC STOP LEVER, DISC SENSOR LEVER



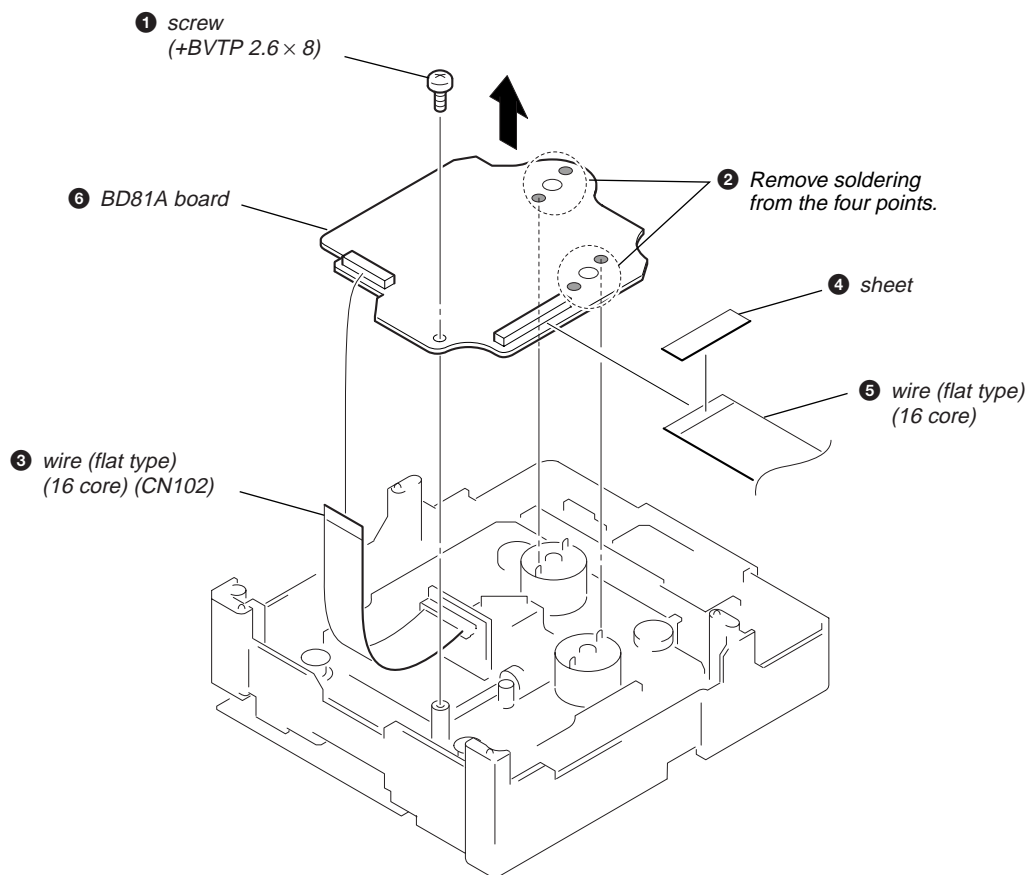
PRECAUTION DURING DISC STOP LEVER INSTALLATION



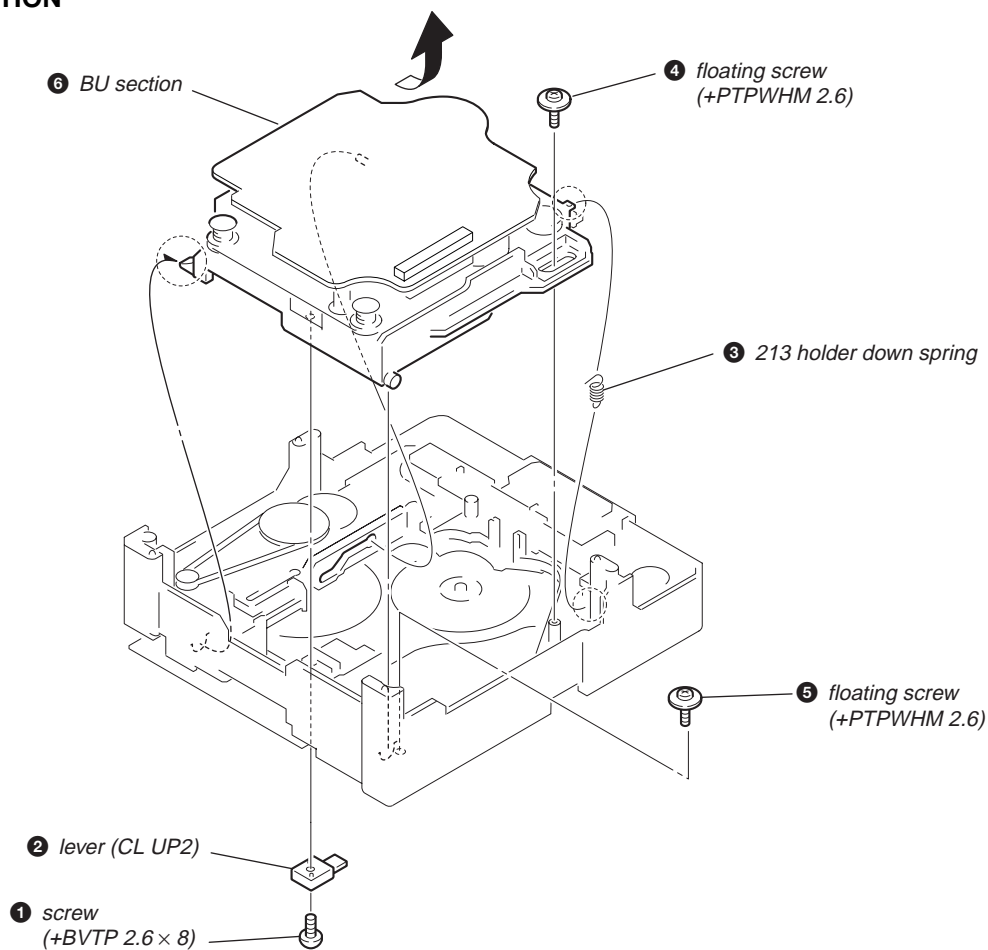
3-10. DRIVER BOARD



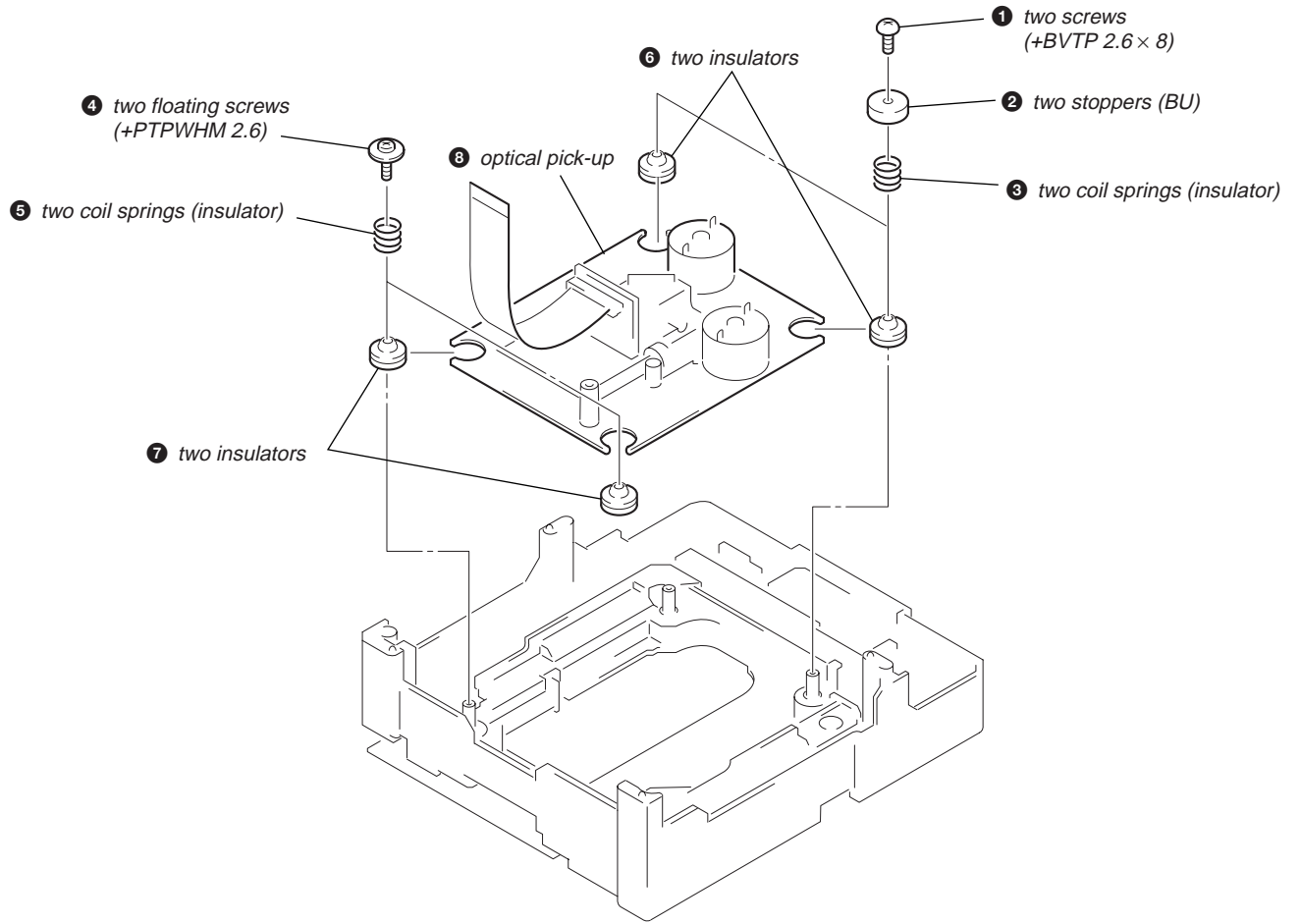
## 3-11. BD81A BOARD



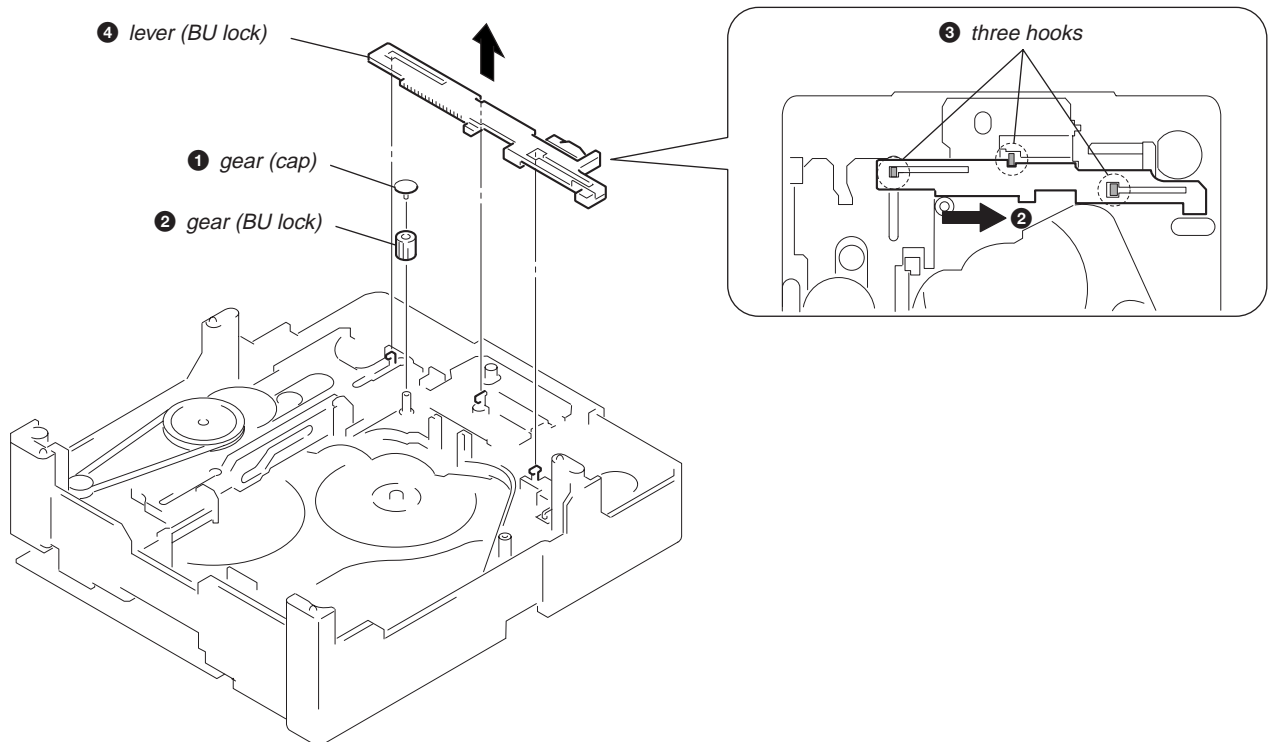
## 3-12. BU SECTION



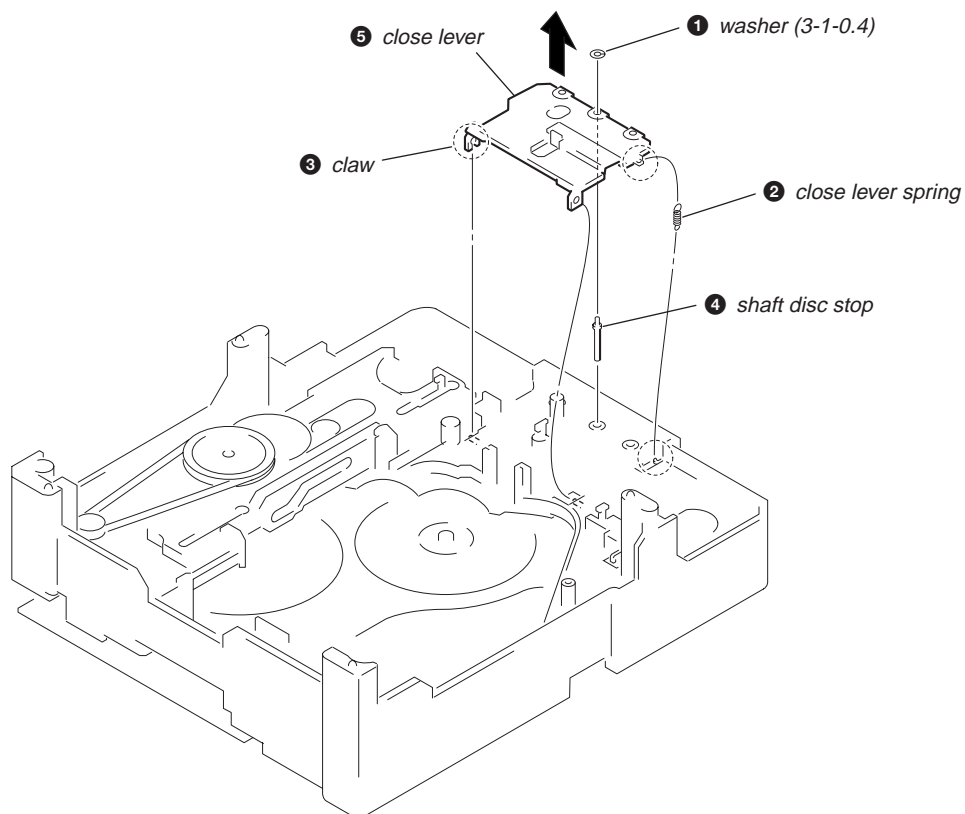
3-13. OPTICAL PICK-UP (KSM-215DCP)



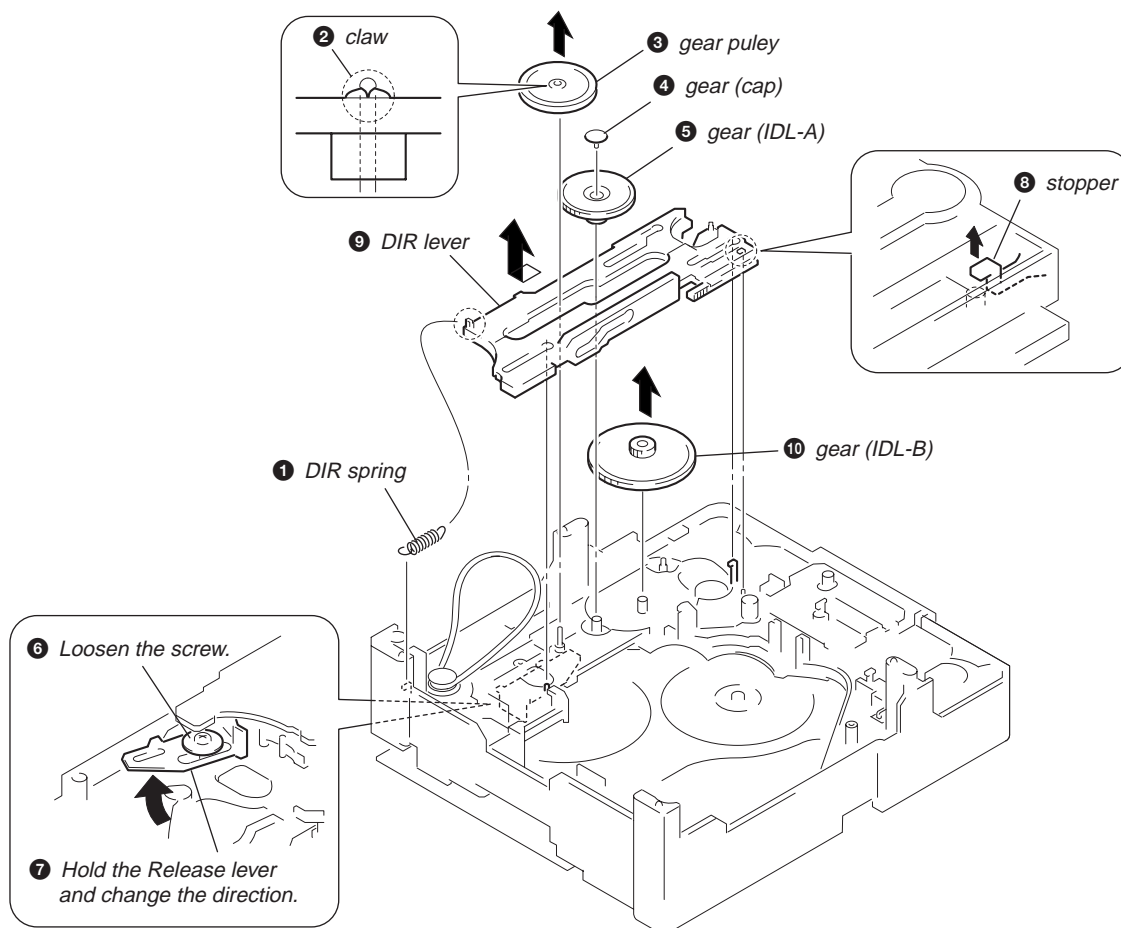
3-14. LEVER (BU LOCK)



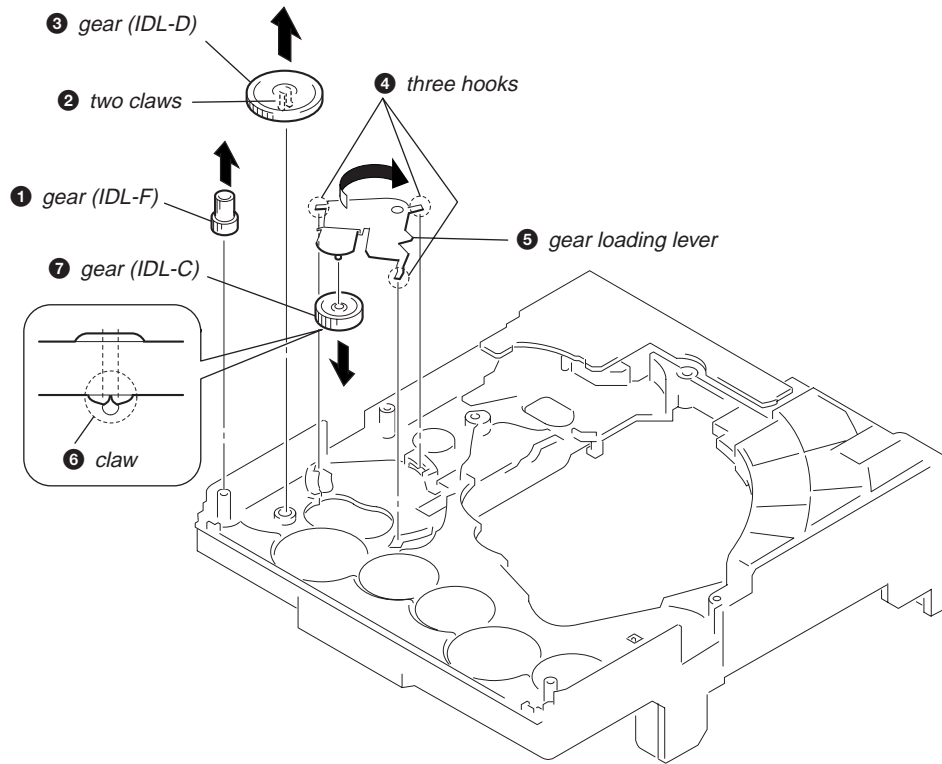
## 3-15. CLOSE LEVER



## 3-16. DIR LEVER, GEAR (IDL-B)



3-17. GEAR (IDL-C)




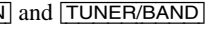









## SECTION 4 TEST MODE

### [CMN (MC) TEST MODE]

- This mode is used to check operations of Amplifier.




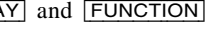






#### Procedure:

- Press the  key to turn the power ON.
- Press three keys of ,  and  simultaneously.
- When the CMN (MC) test mode is activated, “” blinks on the liquid crystal display.
- Turn the  knob counterclockwise, “TONE MIN” is displayed on the liquid crystal display. Turn the  knob clockwise, “TONE MAX” is displayed on the liquid crystal display. Turn the  knob clockwise or counterclockwise, “TONEFLAT” is displayed on the liquid crystal display. Turn the  knob counterclockwise, “VOL MIN” is displayed on the liquid crystal display. Turn the  knob clockwise, “VOL MAX” is displayed on the liquid crystal display.
- To release this mode, press the  key.

### [PANEL (GC) TEST MODE]

- This mode is used to check the liquid crystal display, LED, model, destination, software version and key.





#### Procedure:

- Press the  key to turn the power ON.
- Press three keys of ,  and  simultaneously.
- Liquid crystal display and LEDs are all turned on.
- When you want to enter the model, destination and version display mode, press the  key. The model and destination are displayed alternately on the liquid crystal display.
- Each time  key is pressed, the display changes starting from MD version, MC version, GC version, CD version, CDD version, CDMA version, CDMB version, BDA version, BDB version, ST version, TA version, TM version, and TC version this order, and returns to the MD version display on the liquid crystal display.
- When  key is pressed while the version numbers are being displayed except model and destination, year, month and day of the software creation display. When  key is pressed again, the display returns to the software version display. When  key is pressed while year, month and day of the software creation are being displayed, the year, month and day of creation of the software versions are displayed on the liquid crystal display in the same order of version display.
- Press the  key, the key check mode is activated.
- In the key check mode, the liquid crystal display displays “K0”. Each time a key is pressed, “K” value increases. However, once a key is pressed, it is no longer taken into account.
- To release this mode, press three keys in the same manner as step 2, or disconnect the power cord.

### [COLD RESET]

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





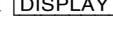
#### Procedure:

- Press the  key to turn the power ON.
- Press three keys of ,  (CD) and  (TAPE) simultaneously.
- The liquid crystal display becomes blank instantaneously, and the set is reset.

### [SHIP MODE (NO MEMORY CLEAR) ]

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





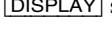
#### Procedure:

- Press the  key to turn the power ON.
- Press the  key to select “CD”.
- Press three keys of ,  and  simultaneously.
- After the “STANDBY” display blinks, “LOCK” is displayed on the liquid crystal display, and the ship mode is set.

### [SHIP MODE (MEMORY CLEAR) ]

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








#### Procedure:

- Press the  key to turn the power ON.
- Press the  key to select “CD”.
- Press three keys of ,  (CD) and  simultaneously.
- After the “STANDBY” display blinks, “LOCK” is displayed on the liquid crystal display, and the ship mode is set.

### [CD TRAY LOCK MODE]

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

#### Procedure:



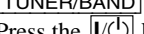



- Press the  key to turn the power ON.
- Press the  key to select “CD”.
- While pressing the  (CD) key, press the  (CD) key for 5 seconds.
- The message “LOCKED” is displayed on the liquid crystal display and the tray is locked. (Even if pressing the  (CD) key, the message “LOCKED” is displayed on the liquid crystal display and the tray is locked)
- To release from this mode, pressing the  (CD) key, press the  (CD) key for 5 seconds.
- The message “UNLOCKED” is displayed on the liquid crystal display and the tray is unlocked.

### [TUNER STEP CHANGE MODE]

#### (Singapore, Korean and Australian models)

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









#### Procedure:

- Press the  key to turn the power ON.
- Press the  key to select “TUNER”, and press the  key to select “AM”.
- Press the  key to turn the power OFF.
- Press two keys of  and  simultaneously.
- The message “AM 9K STEP” or “AM 10K STEP” is displayed on the liquid crystal display, and thus the channel step is changed over.

### [CD SERVICE MODE]

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






#### Procedure:

- Press the  key to turn the power ON.
- Press the  key to select “CD”.
- Press three keys of ,  and  (TAPE) simultaneously.
- Press the  key to move the optical pick-up to outside track, or press the  key to inside track.
- To release this mode, press the  key.

### [CD ERROR CODE MODE]

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

#### Procedure:




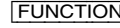

1. Press the  key to turn the power ON.
2. Press the  key to select "CD".
3. Press three keys of ,  and  (TAP) simultaneously.

**Note:** Error code is not displayed on the liquid crystal display.

### [CD SERVO TEST MODE]

- This mode used to ckeck operation of optical pick-up.






#### Procedure:

1. Press the  key to turn the power ON.
2. Press the  key to select "CD".
3. Press three keys of ,  and  (TAP) simultaneously.
4. When the CD servo test mode is activated, optical pick-up moves.

### [5 REPEAT OFF MODE]

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



#### Procedure:

1. Press the  key to turn the power on.
2. Press the  key to select "CD".
3. Press three keys of ,  and  (CD) simultaneously.
4. When the 5 repeat off mode is activated, "LIMIT OF" is displayed on the liquid crystal display.

### [CHANGE-OVER FUNCTION OF EXTERNAL INPUT]

- This mode is used to enable function of external input to change over between MD and VIDEO.

#### Procedure:

1. Set to standby state.
2. Press two keys of  and  simultaneously.
3. The function of external input changes over to MD or VIDEO.

## SECTION 5 ELECTRICAL ADJUSTMENTS

**DECK SECTION**      0 dB = 0.775 V

**Note:**

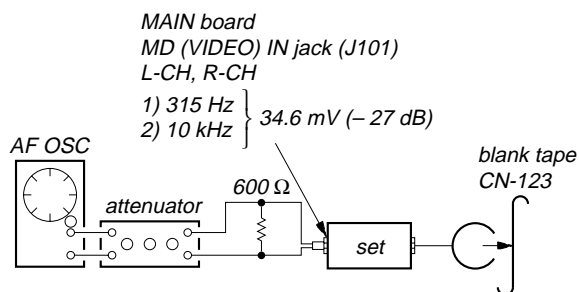
Confirm each contents of this section first of all. If the results are not satisfied, do the adjustment.

1. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
2. The adjustments should be performed in the order given in this service manual.
3. The adjustments should be performed for both L-CH and R-CH.

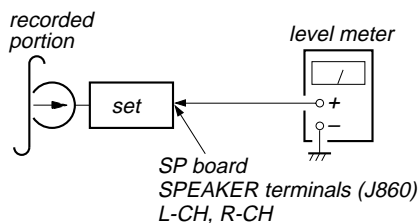
**REC BIAS ADJUSTMENT**

**Procedure:**

1. Press the **FUNCTION** key to select "MD" or "VIDEO".
2. Set the tape into the deck.
3. After pressing **REC** key, press **TAPE** key to start recording.
4. Mode: Record



5. Mode: Playback

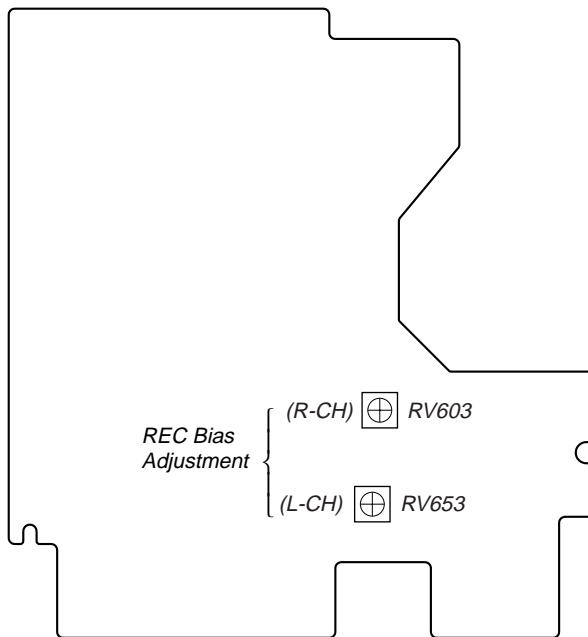


6. Confirm the playback signal recorded in step 3 becomes adjustable level as follows.  
If these levels are out of specified values, adjust the RV653 (L-CH) and RV603 (R-CH) on the TC board to repeat steps 4 and 5.

**Specified values:** Playback output of 315 Hz to playback output of 10 kHz: ± 2.0 dB

**Adjustment Location:** TC board

- TC BOARD (Component Side) -



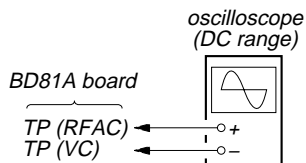


**CD SECTION**




**Note:**

1. CD Block is basically constructed to operate without adjustment.
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.
5. Check the focus bias check when optical pick -up block is replaced.

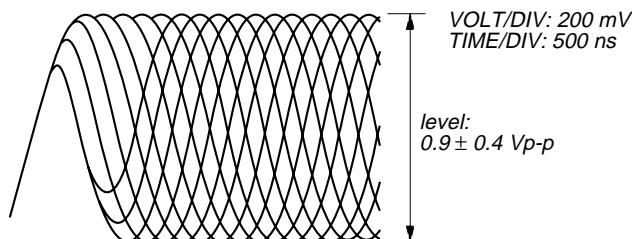
**FOCUS BIAS CHECK**



**Procedure :**

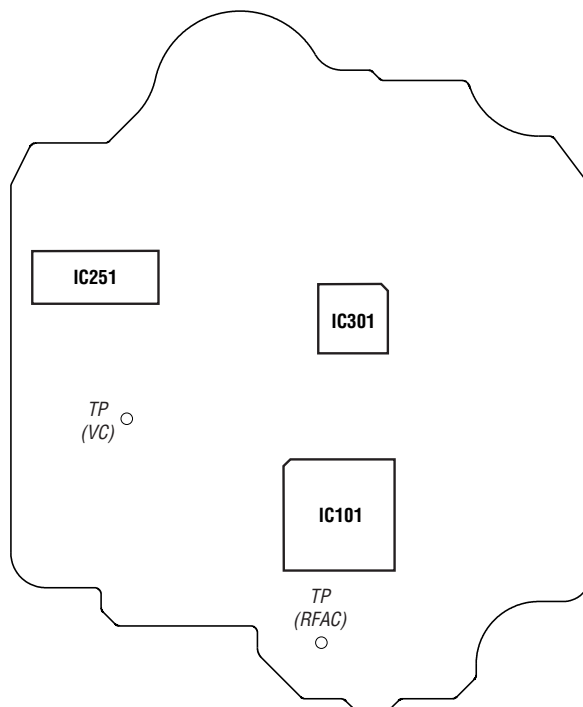
1. Connect oscilloscope to TP (RFAC) and TP (VC) on the BD81A board.
2. Press the  button to turn the power ON, and press the  (CD) button to open the CD disc tray.
3. Set disc (YEDS-18) on the tray and press the  button to playback.
4. Confirm that oscilloscope waveform is as shown in the figure below. (eye pattern)

A good eye pattern means that the diamond shape (◊) in the center of the waveform can be clearly distinguished.



**Checking Location:**

**– BD81A BOARD (Side B) –**





MEMO

## SECTION 6 DIAGRAMS









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

### For Schematic Diagrams.

#### Note:





- All capacitors are in  $\mu\text{F}$  unless otherwise noted. (p: pF)  
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.
- $\Delta$  : internal component.
-  : 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.

-  : B+ Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.  
no mark: TUNER (FM)  
( ): CD PLAY  
[ ]: TAPE PLAY  
<< >>: REC
- 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)
-  : CD PLAY (ANALOG)
-  : CD PLAY (DIGITAL)
-  : TAPE PLAY
-  : REC
-  : MD (VIDEO) IN
- Abbreviation
- AUS : Australian model.
- KR : Korean model.

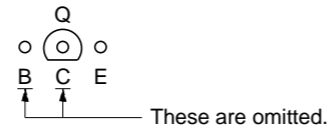
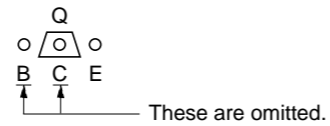
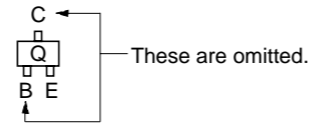
### For Printed Wiring Boards.

#### Note:

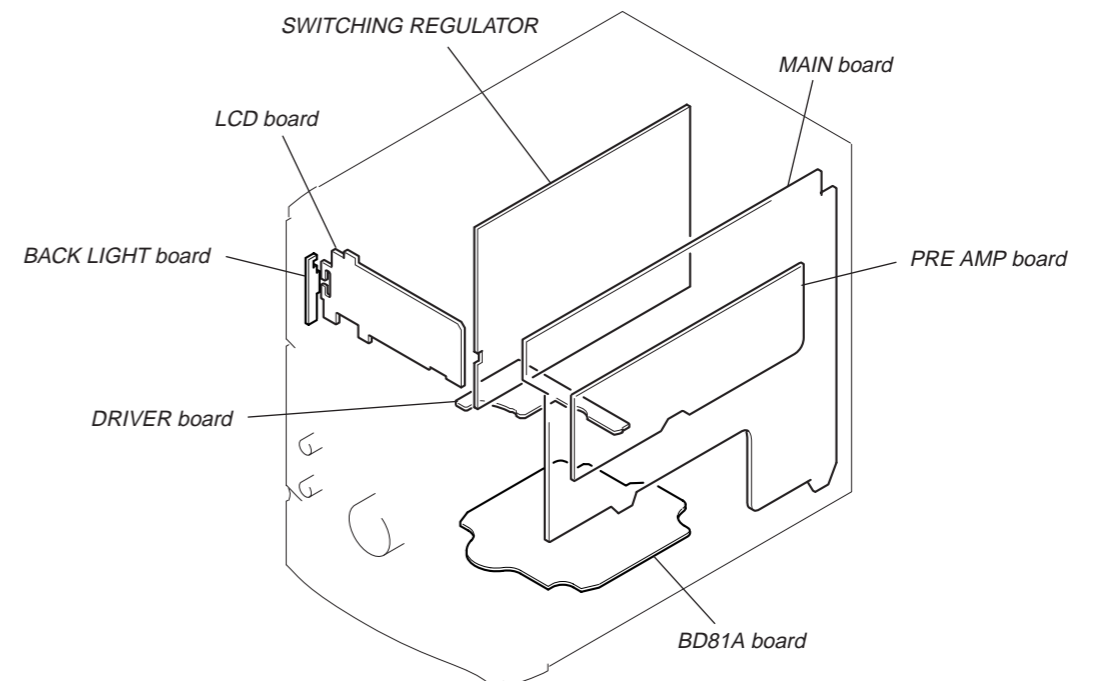
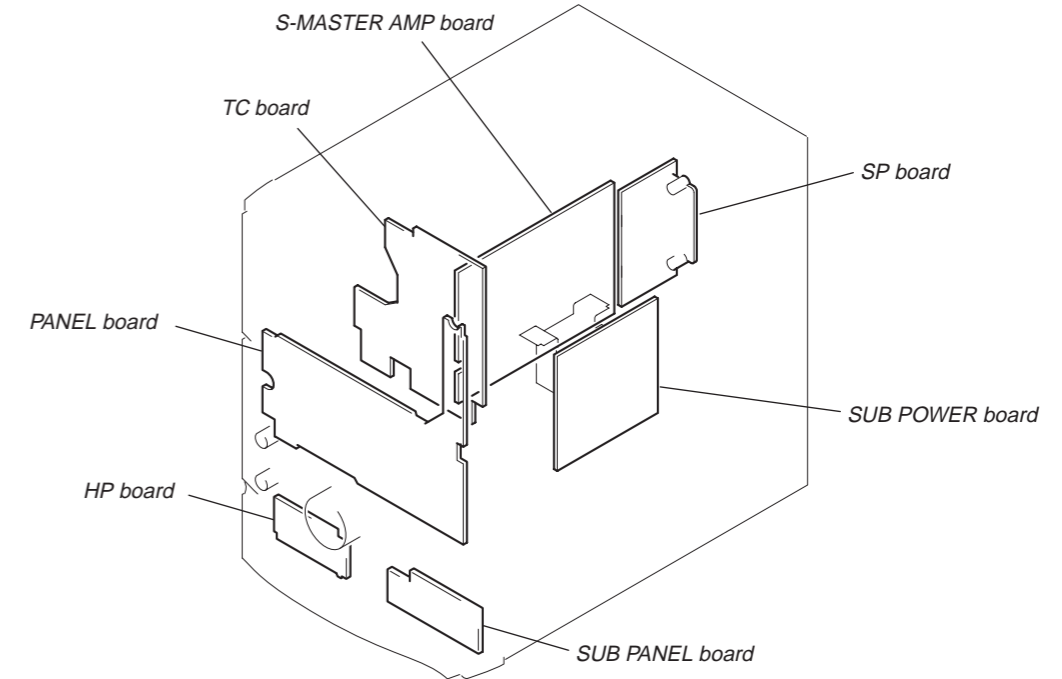
-  : parts extracted from the component side.
-  : parts extracted from the conductor side.
-  : indicates side identified with part number.
- $\Delta$  : internal component.
-  : Pattern from the side which enables seeing.  
(The other layers' patterns are not indicated.)

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

- Indication of transistor.

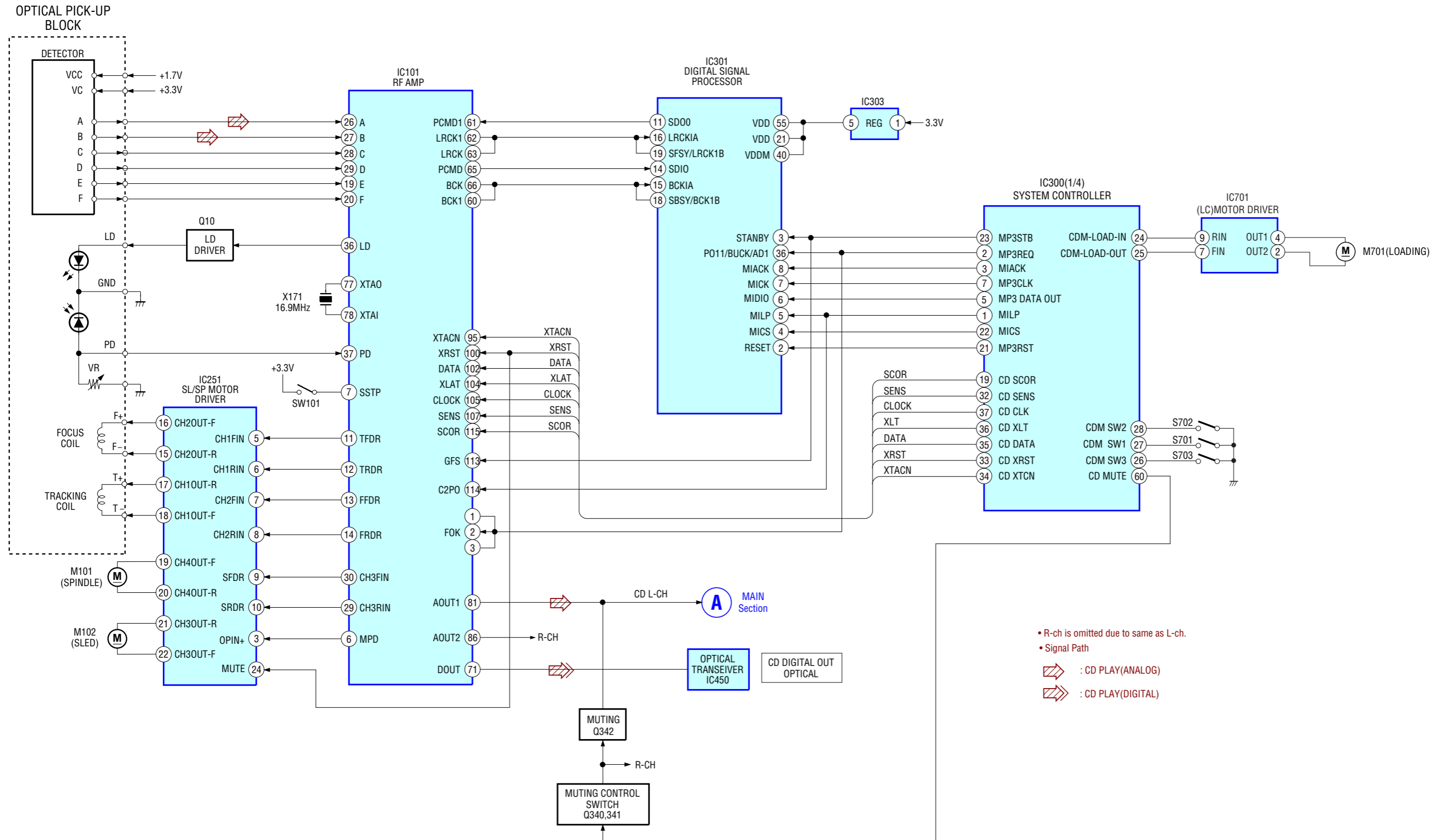


### • Circuit Boards Location

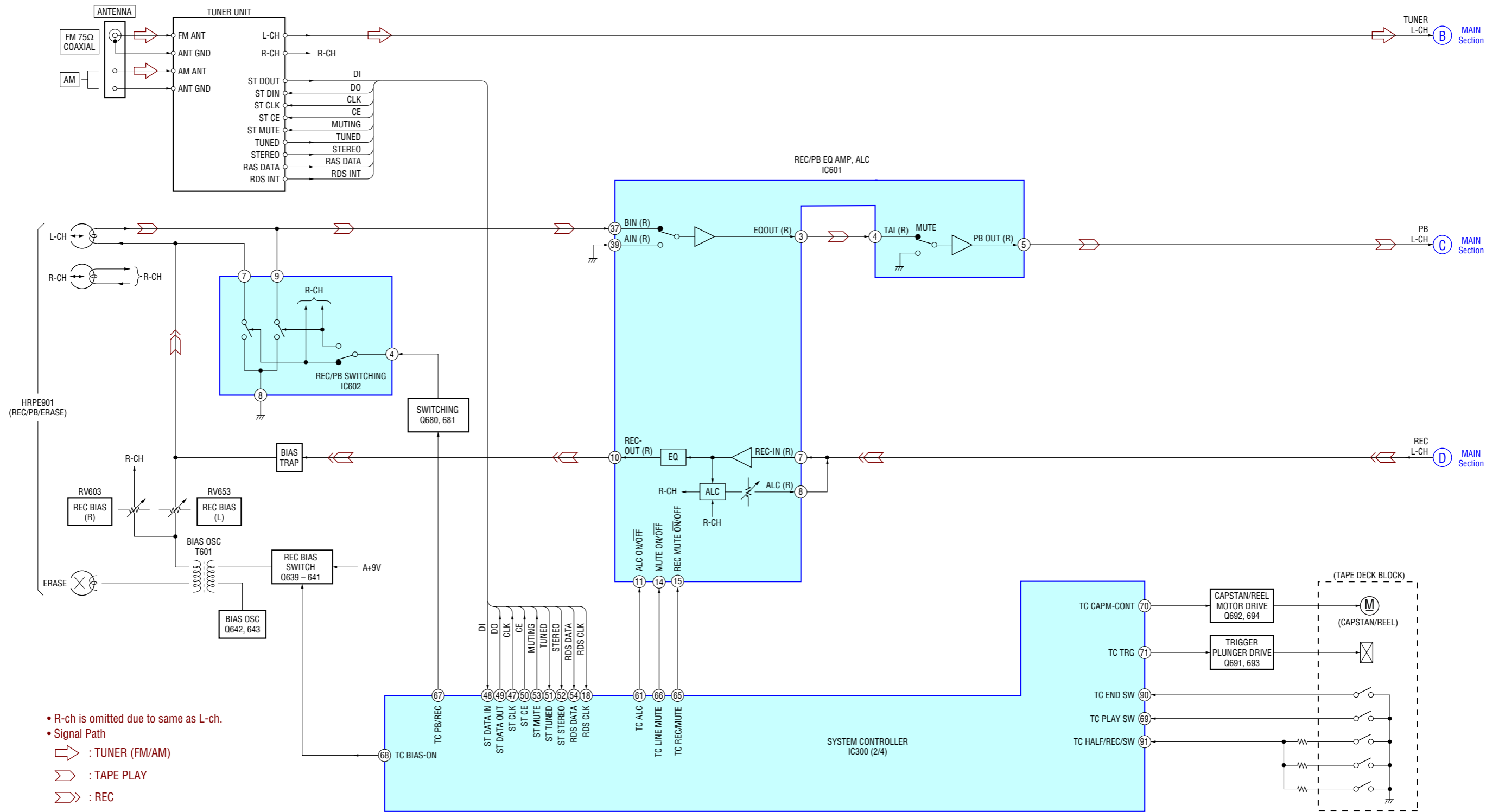


# HCD-CPX11

## 6-1. BLOCK DIAGRAM — BD/DRIVER SECTION —

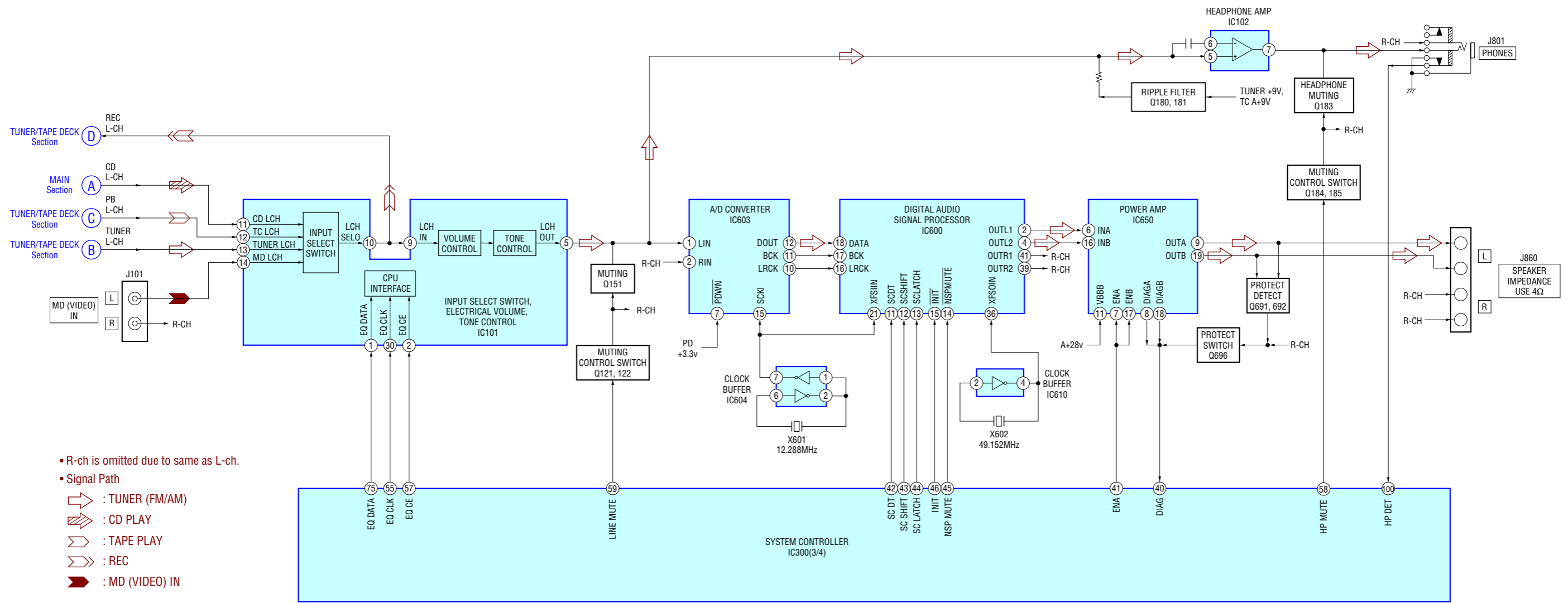


— TUNER/TAPE DECK SECTION —

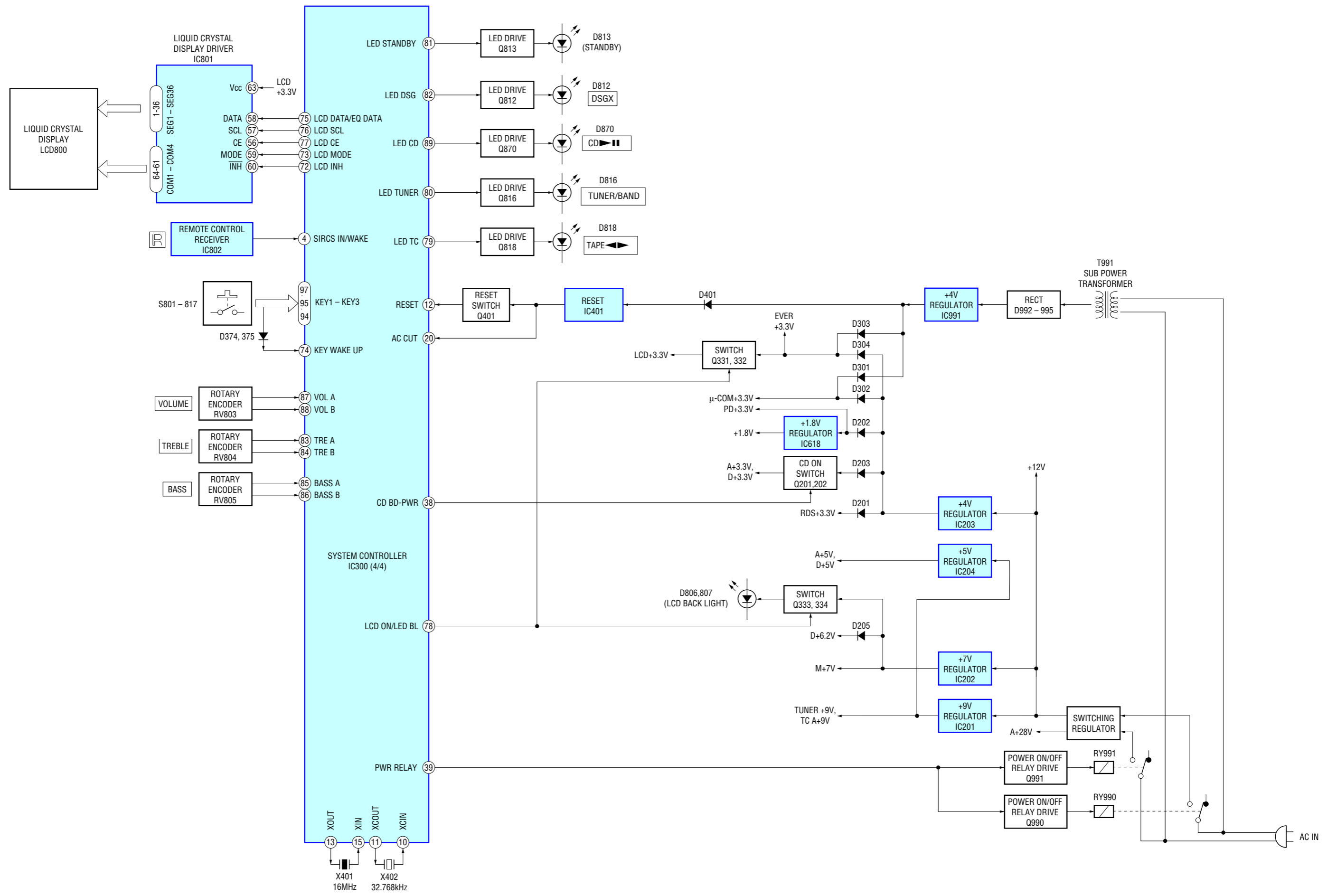


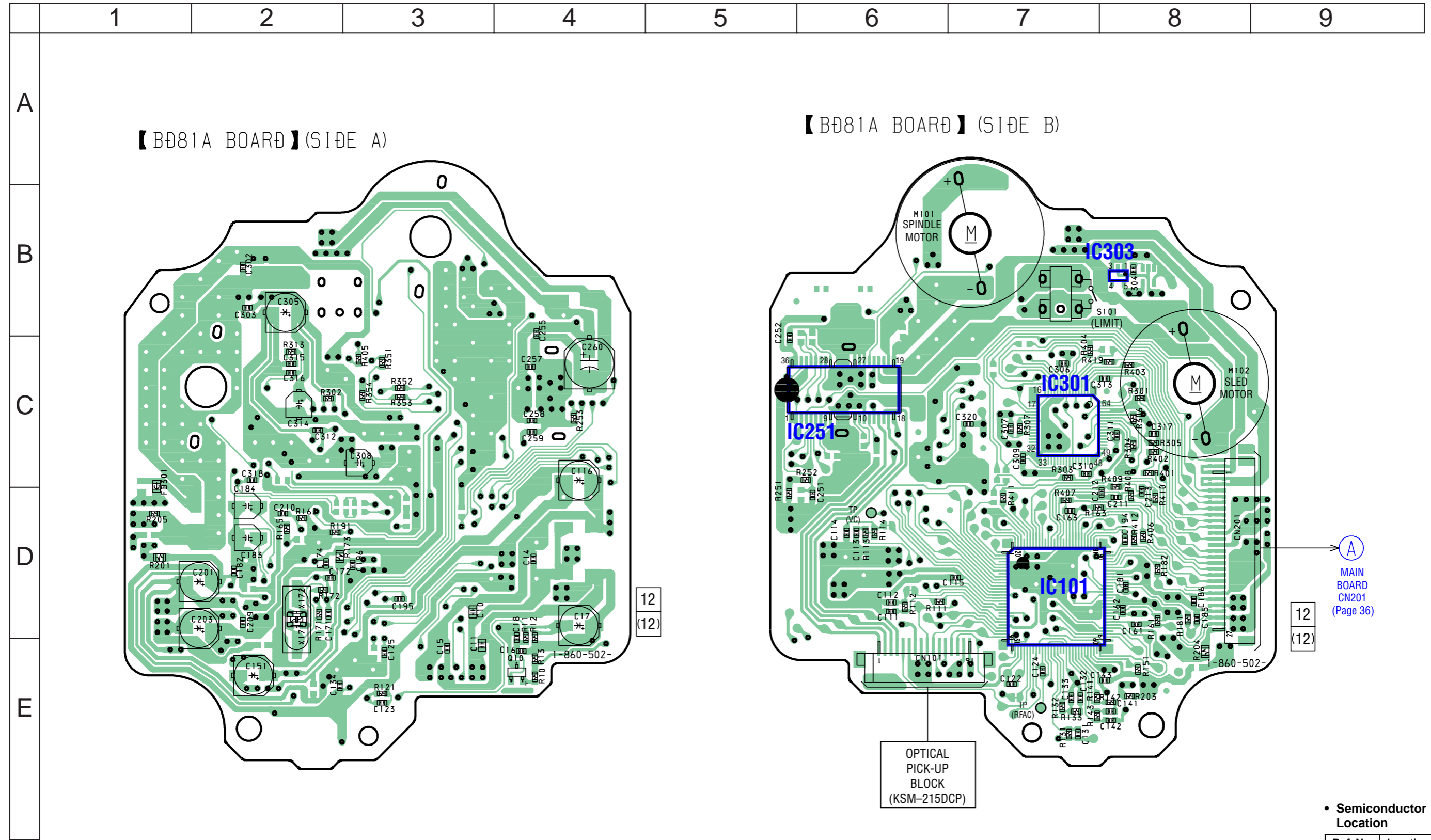
# HCD-CPX11

## — MAIN SECTION —



— DISPLAY/POWER SUPPLY SECTION —



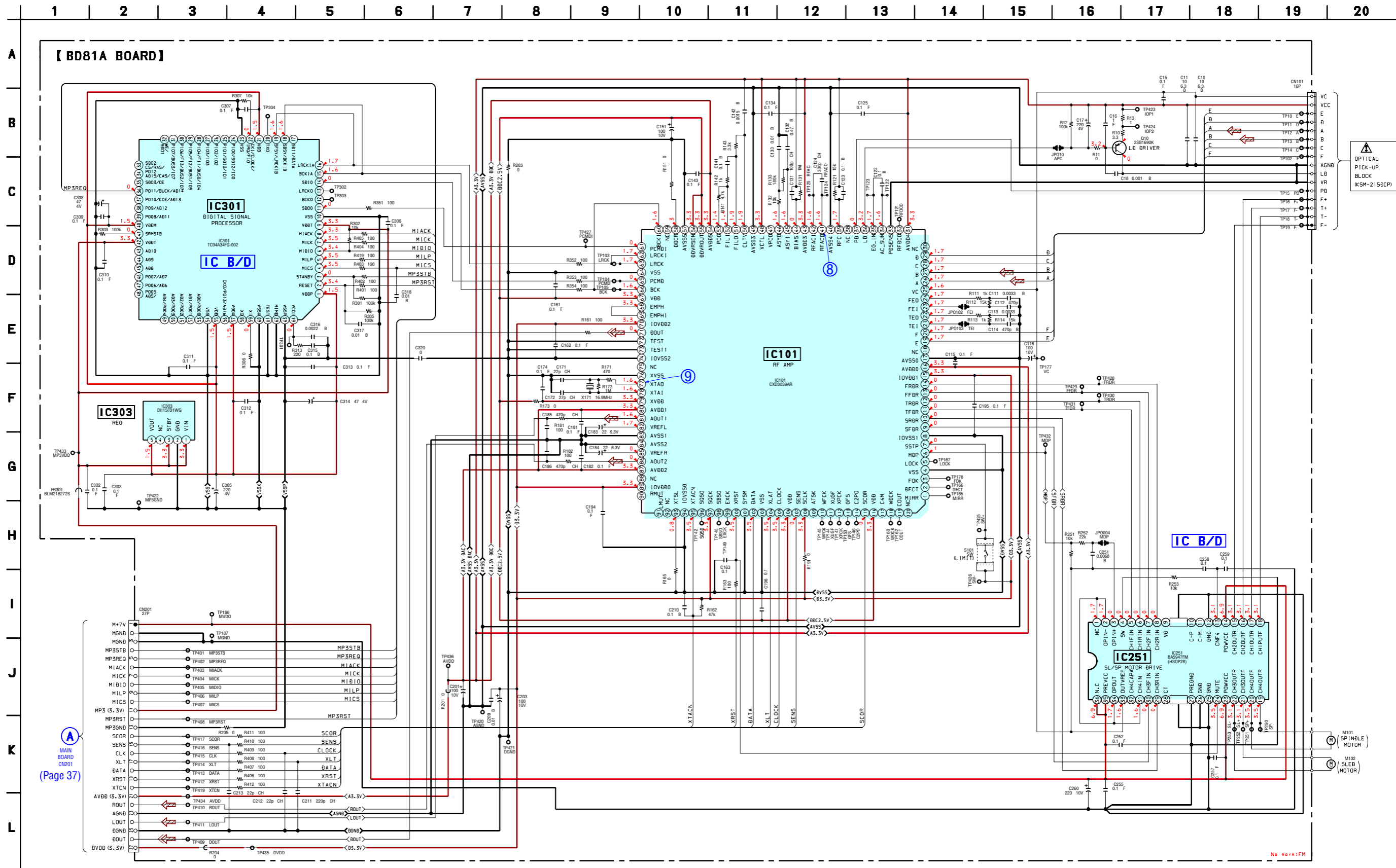


• Semiconductor Location

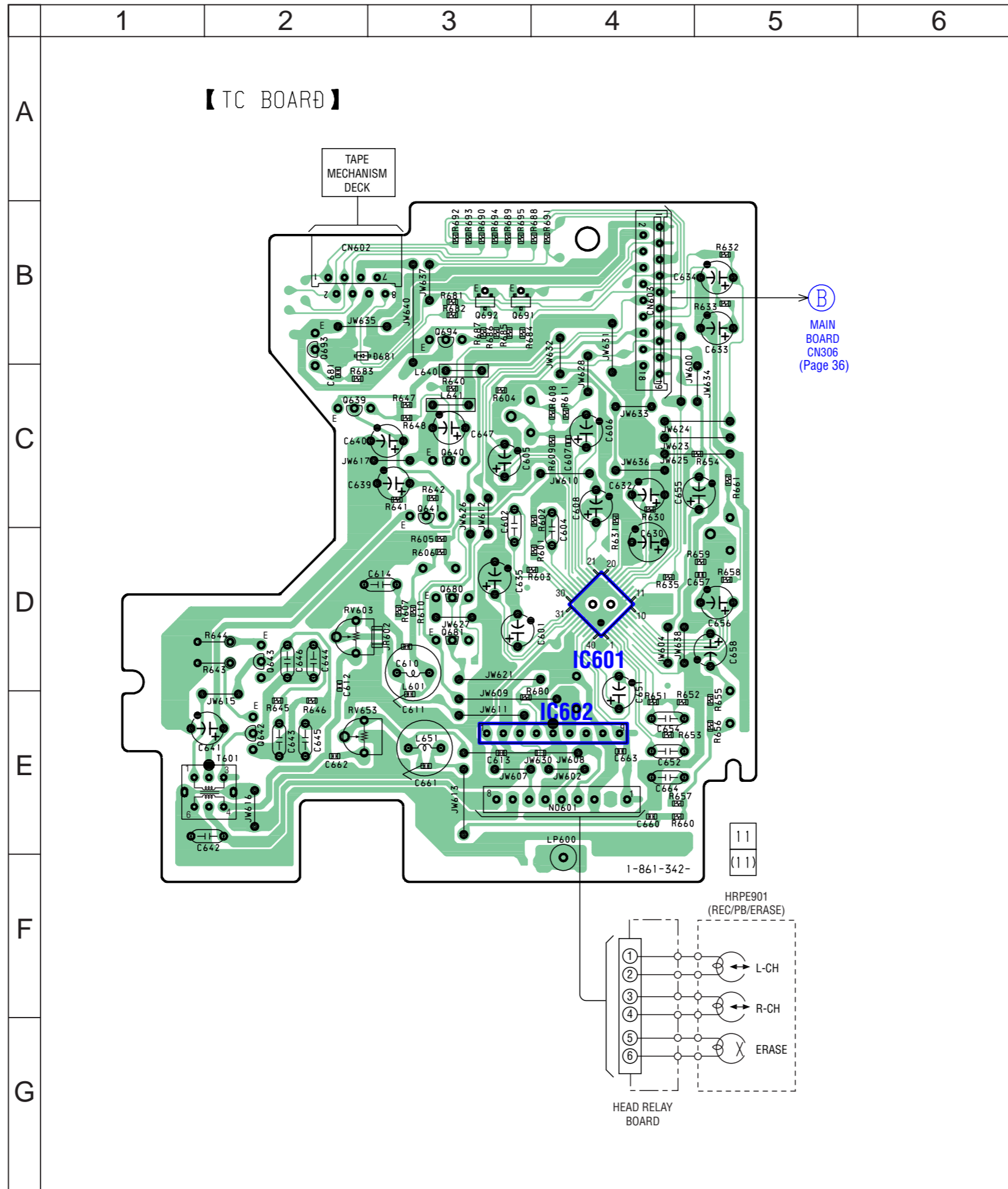
Ref. No.	Location
IC101	D-7
IC251	C-6
IC301	C-7
IC303	B-7
Q10	E-4



6-3. SCHEMATIC DIAGRAM — BD81A SECTION — • Refer to page 51 for IC PIN FUNCTION DESCRIPTION.



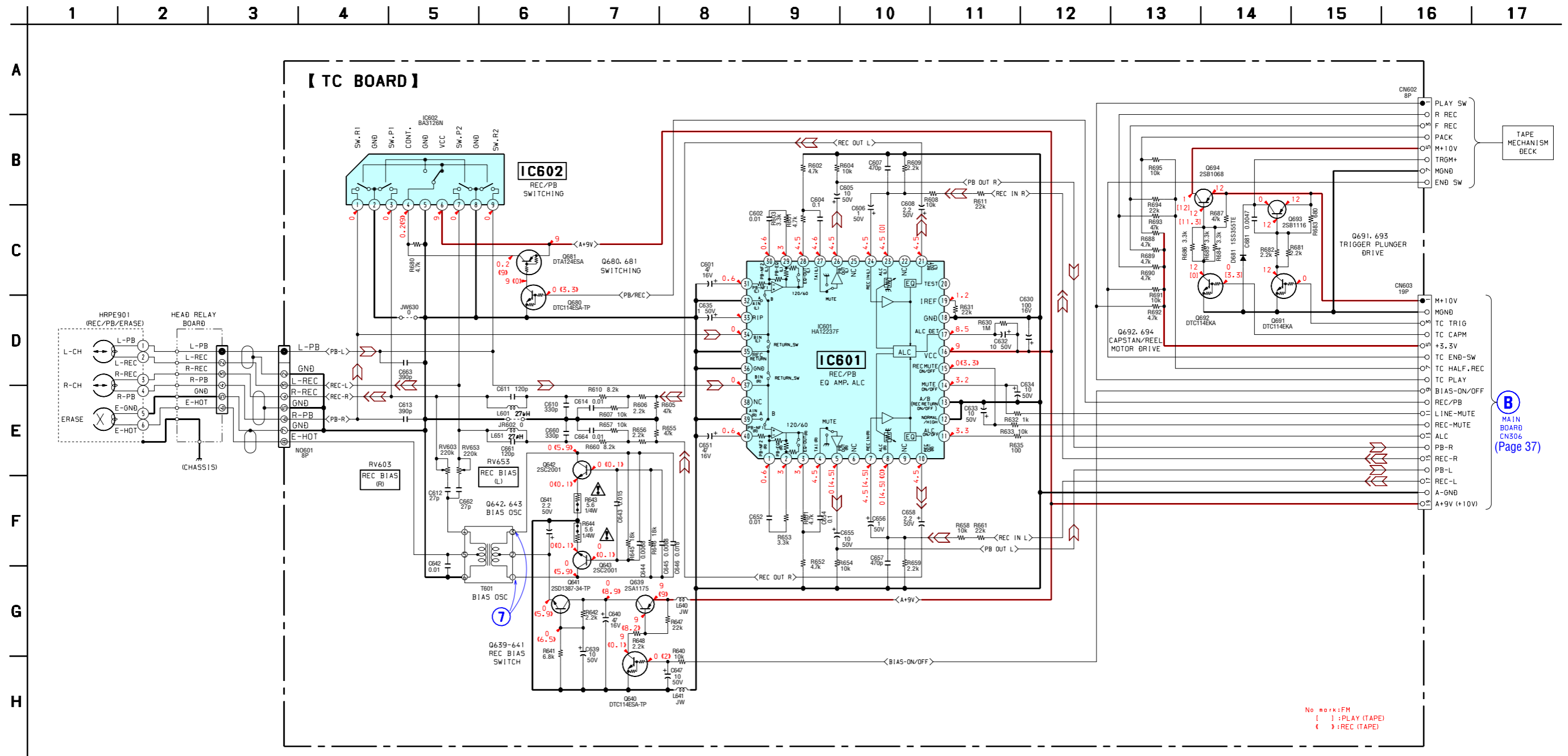
(Page 37)



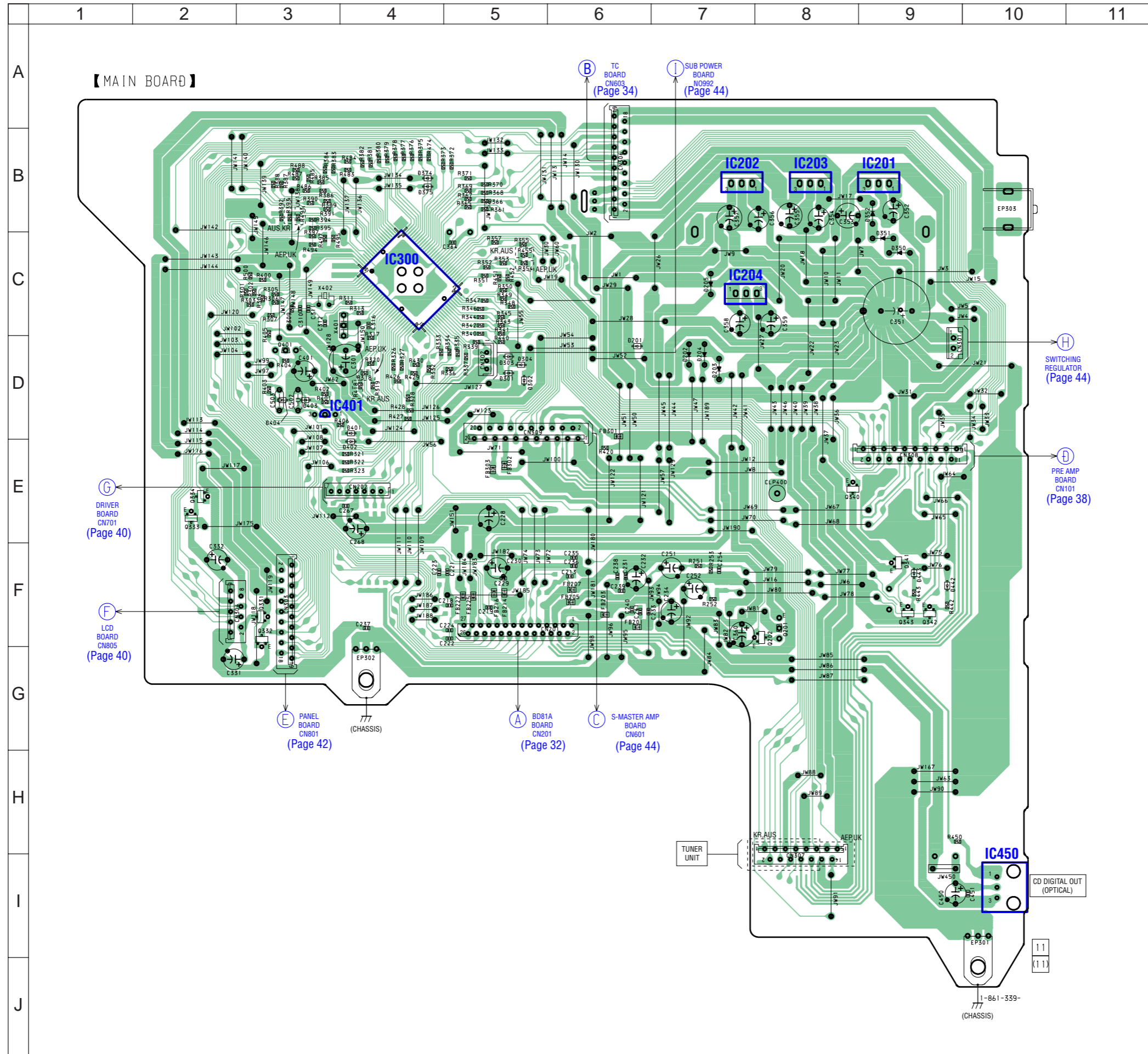
• Semiconductor Location

Ref. No.	Location
D681	B-3
IC601	D-4
IC602	E-4
Q639	C-2
Q640	C-3
Q641	C-3
Q642	E-2
Q643	D-2
Q680	D-3
Q681	D-3
Q691	B-3
Q692	B-3
Q693	B-2
Q694	B-3

6-5. SCHEMATIC DIAGRAM — TC SECTION —



6-6. PRINTED WIRING BOARD — MAIN SECTION — • See page 27 for Circuit Boards Location.  :Uses unleaded solder.

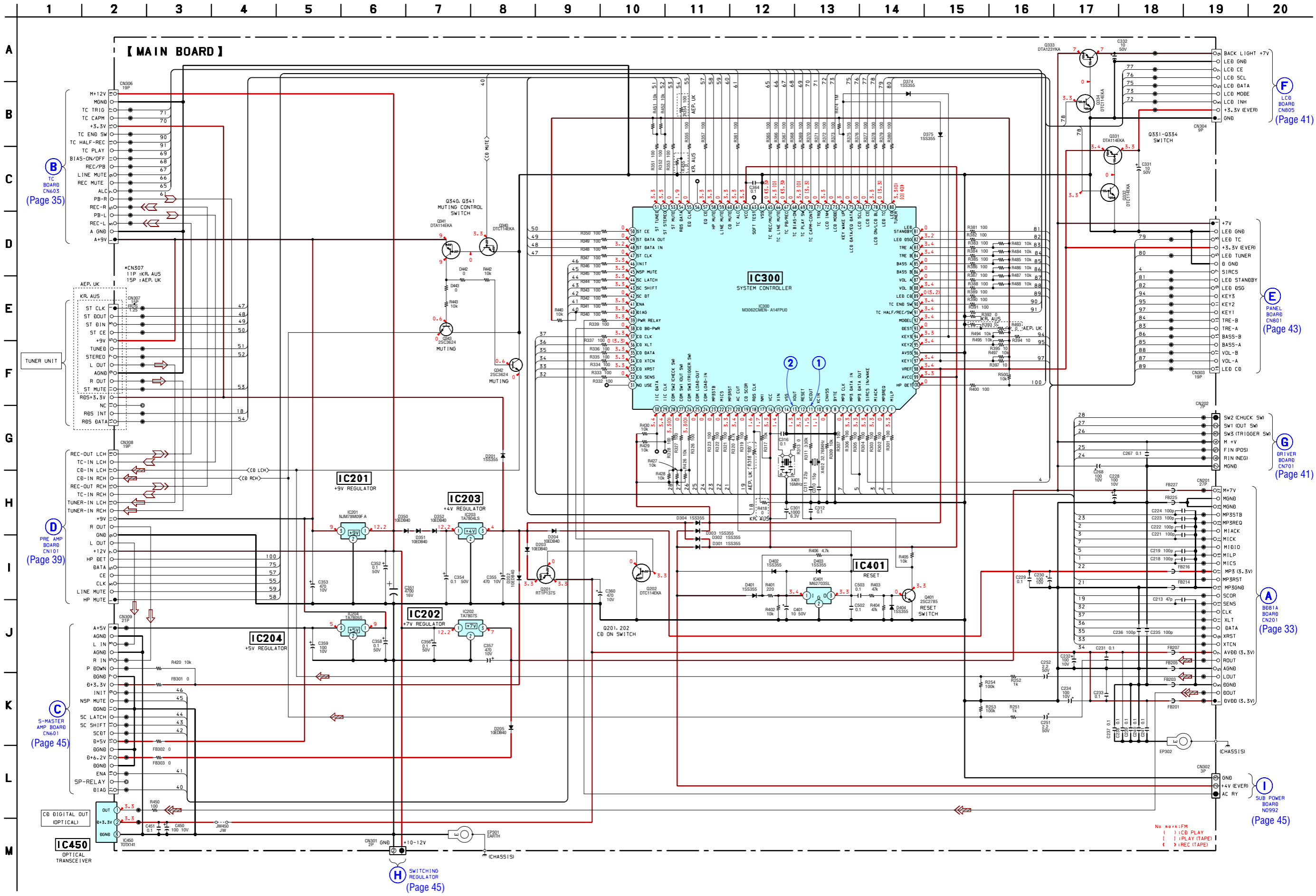


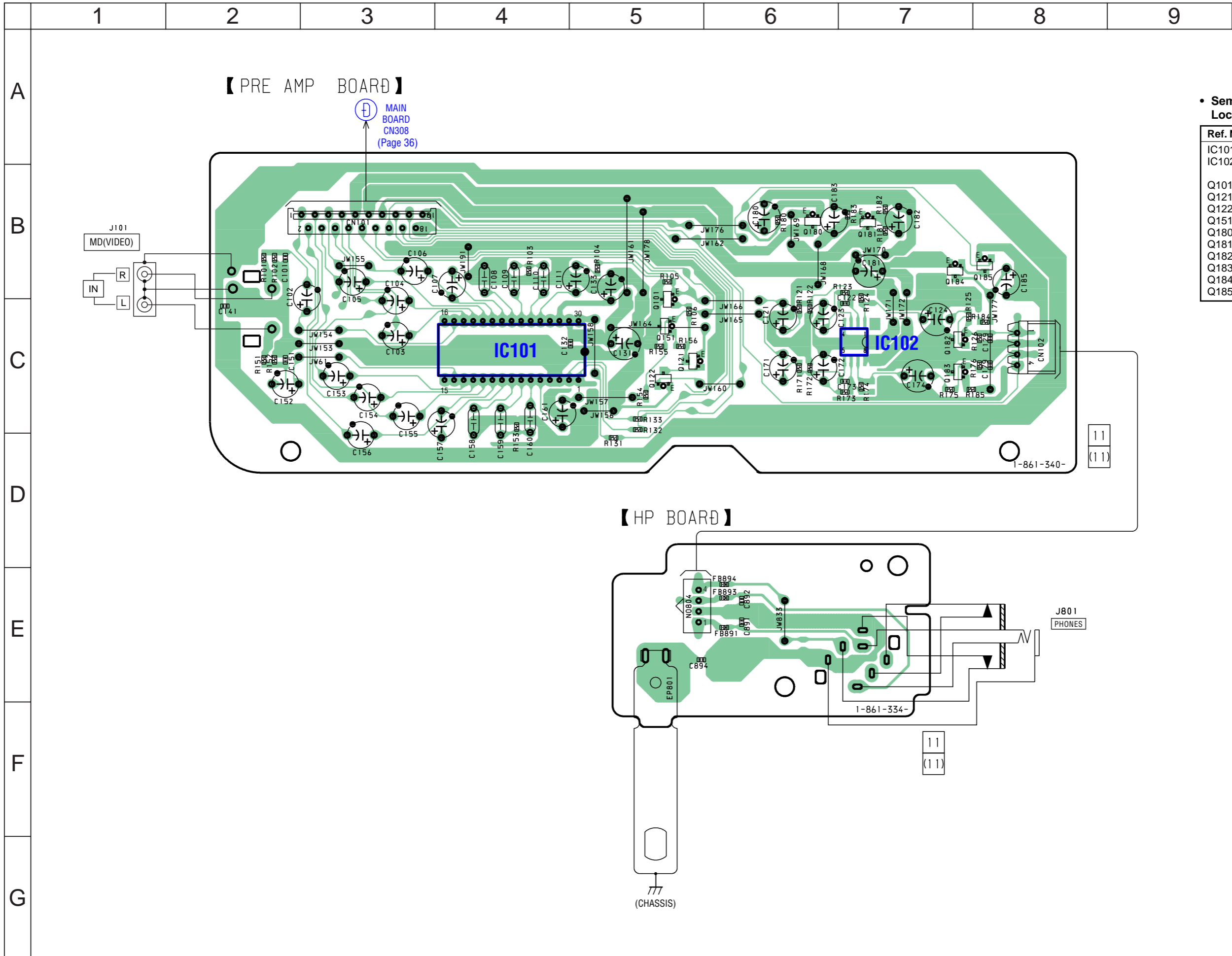
• Semiconductor Location

Ref. No.	Location
D201	D-6
D202	D-7
D203	D-7
D204	D-7
D205	C-7
D301	D-5
D302	D-5
D303	D-5
D304	D-5
D350	C-9
D351	C-9
D352	B-9
D374	B-4
D375	B-4
D401	D-4
D402	E-4
D403	D-3
D404	D-3
D442	F-9
D443	F-9
IC201	B-9
IC202	B-7
IC203	B-8
IC204	B-9
IC300	C-4
IC401	D-3
IC450	I-10
Q201	F-8
Q202	F-7
Q331	F-3
Q332	F-3
Q333	E-2
Q334	E-2
Q340	E-8
Q341	E-9
Q342	F-9
Q343	F-9
Q401	D-3



6-7. SCHEMATIC DIAGRAM — MAIN SECTION — • Refer to page 54 for IC PIN FUNCTION DESCRIPTION.

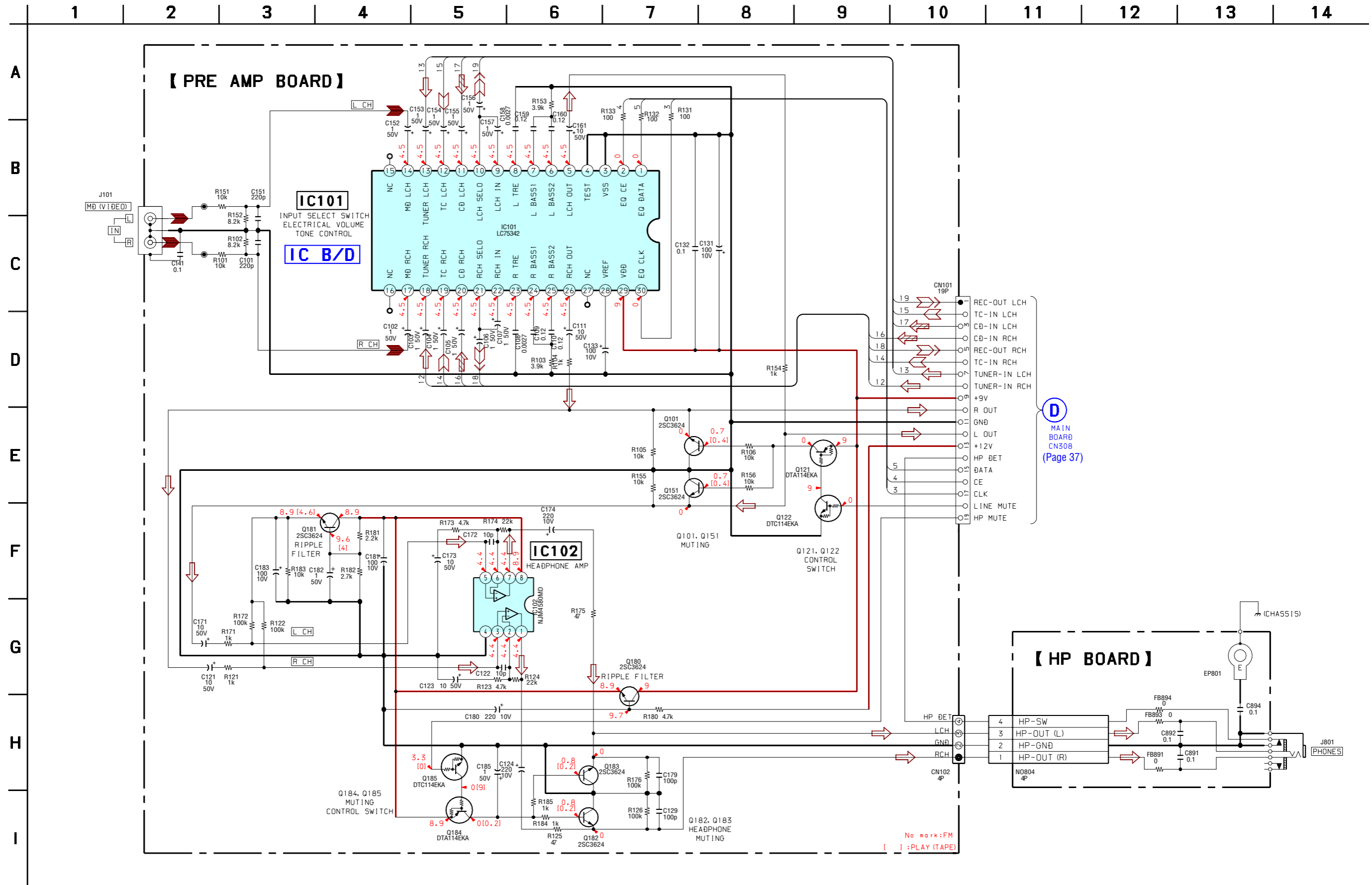


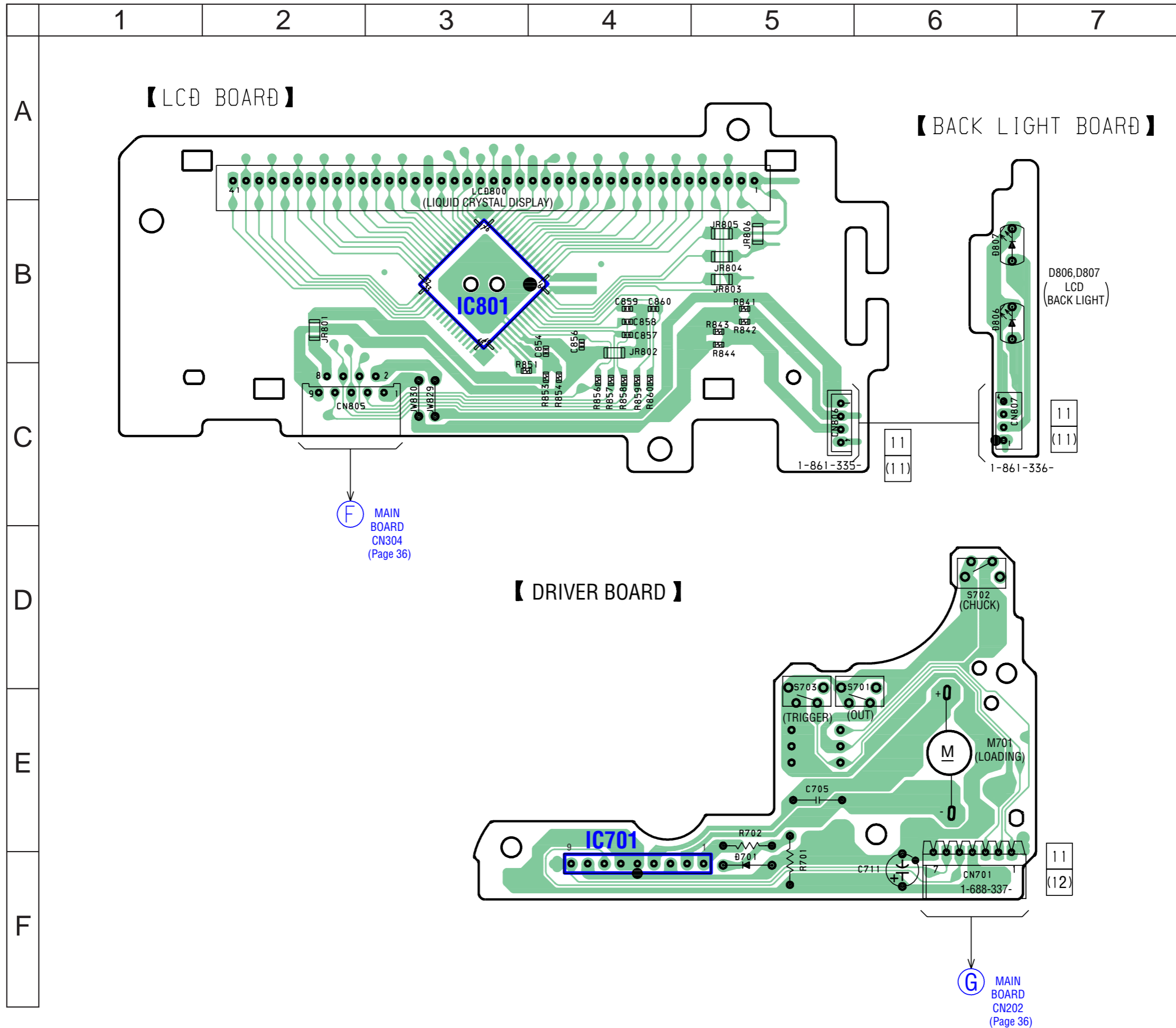


• Semiconductor Location

Ref. No.	Location
IC101	C-4
IC102	C-7
Q101	C-5
Q121	C-5
Q151	C-5
Q180	B-6
Q181	B-7
Q182	C-7
Q183	C-7
Q184	B-7
Q185	B-8

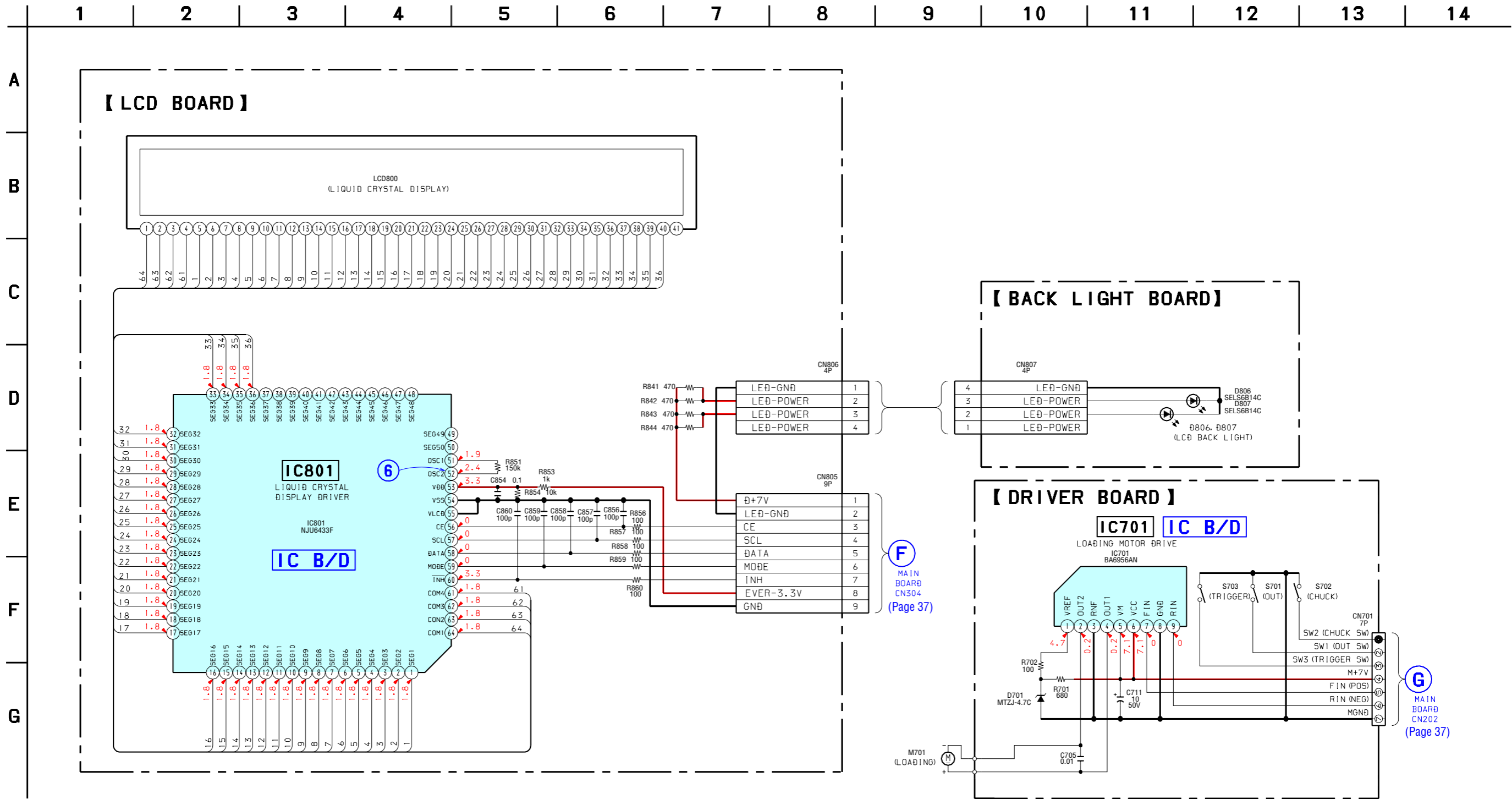
6-9. SCHEMATIC DIAGRAM — PRE AMP SECTION —

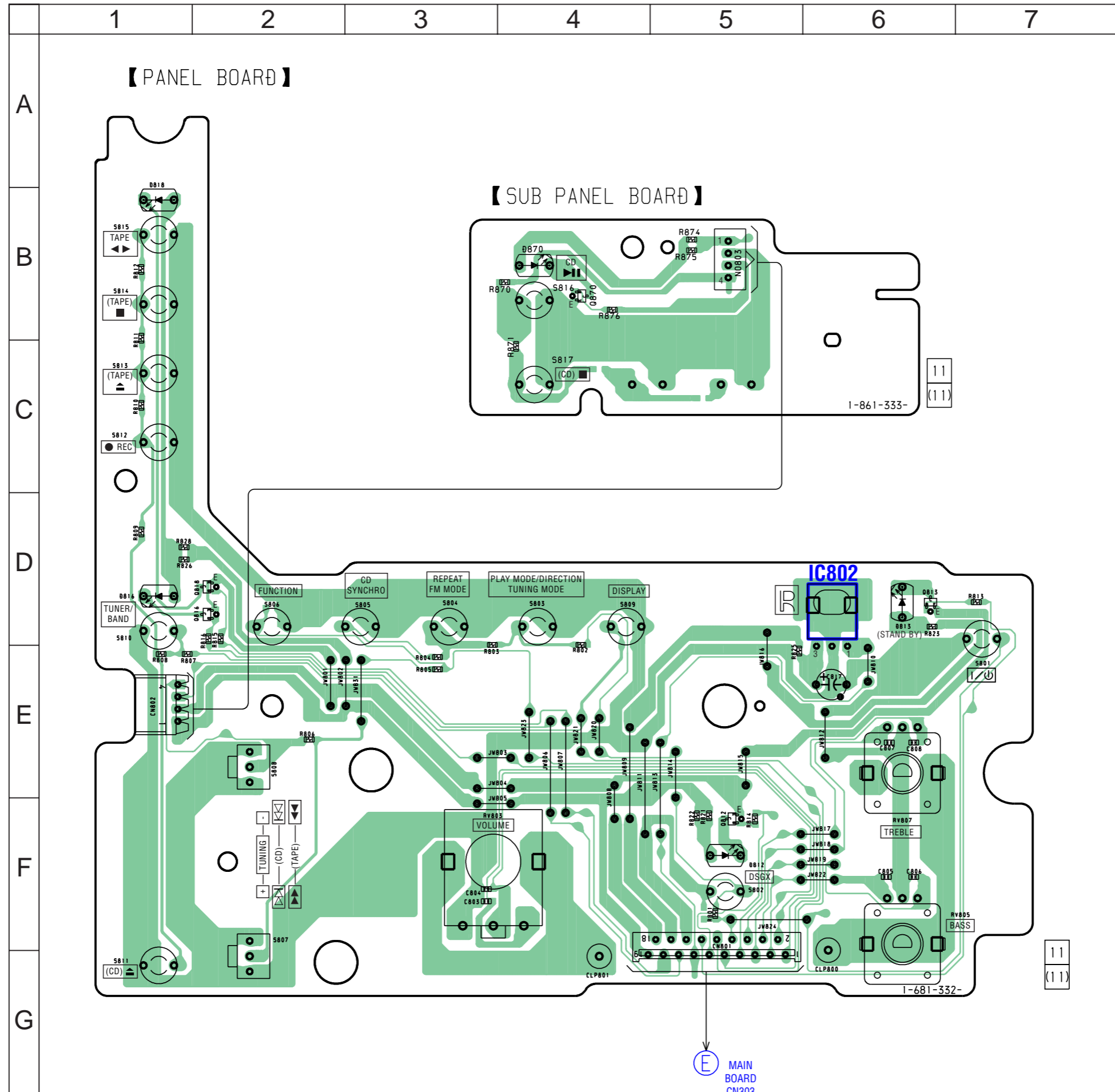






6-11. SCHEMATIC DIAGRAM — LCD/DRIVER SECTION —

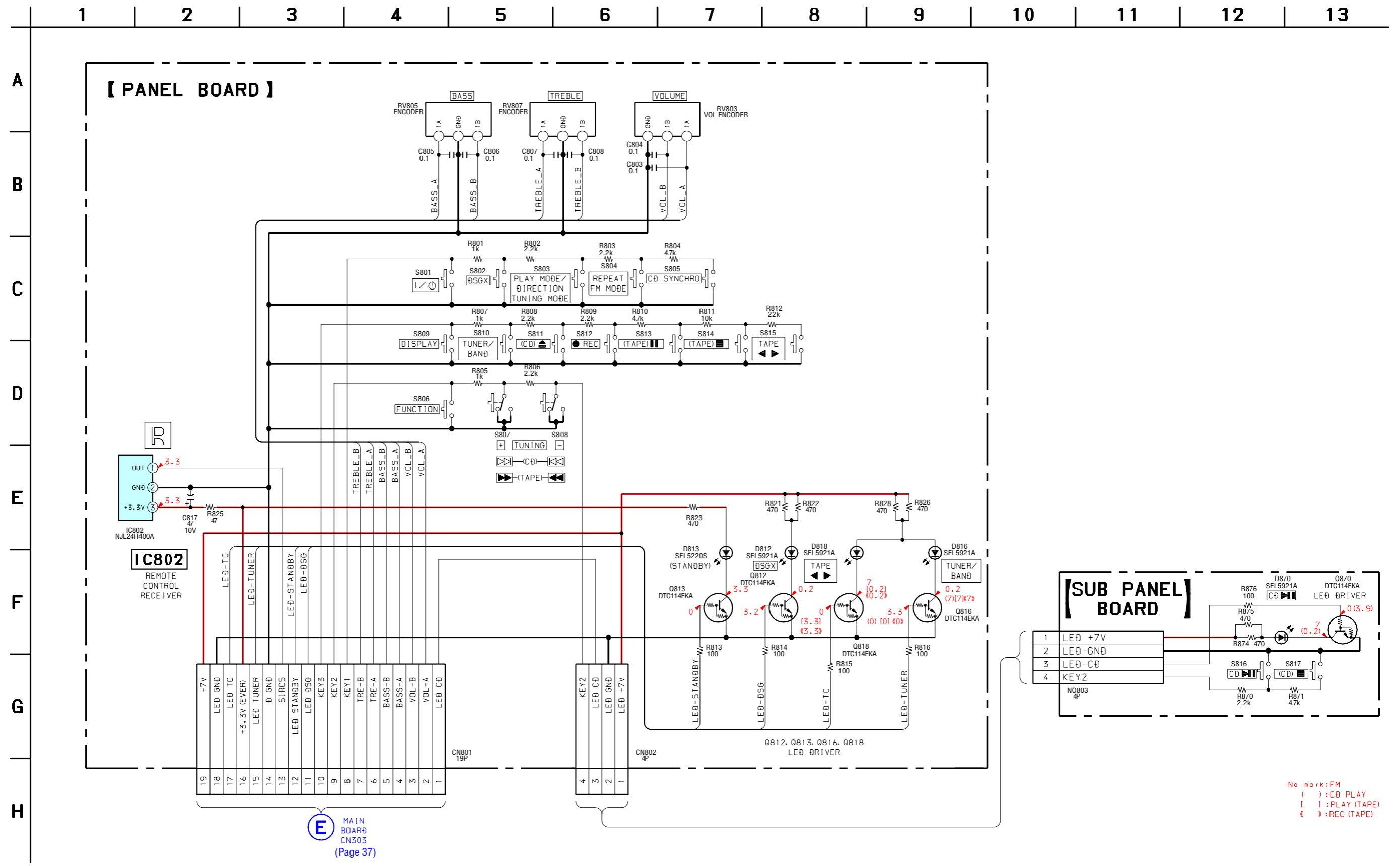




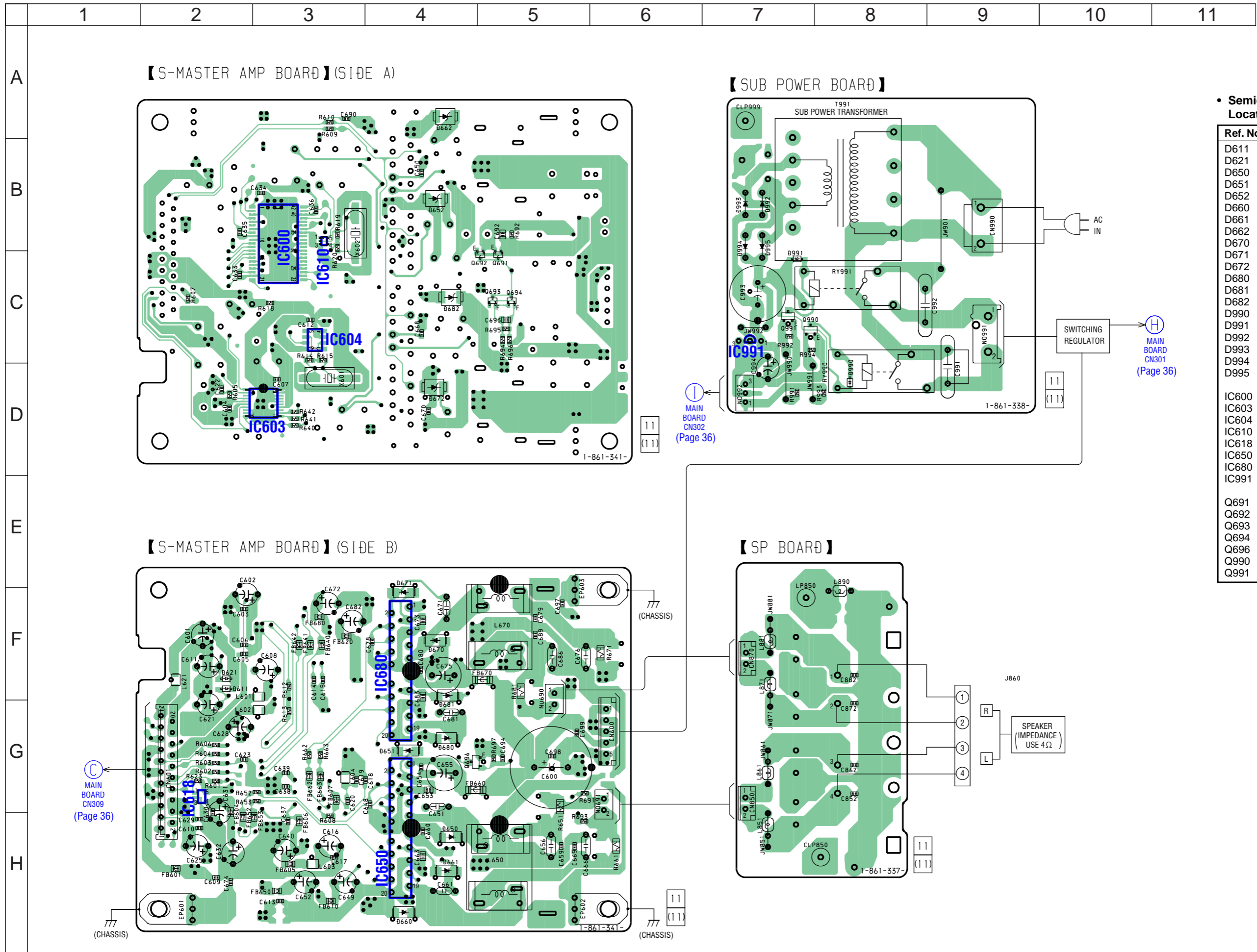
• Semiconductor Location

Ref. No.	Location
D812	F-5
D813	D-6
D816	D-6
D818	B-1
D870	B-4
IC802	D-6
Q812	F-5
Q813	D-6
Q816	D-2
Q818	D-2
Q870	B-4

6-13. SCHEMATIC DIAGRAM — PANEL SECTION —



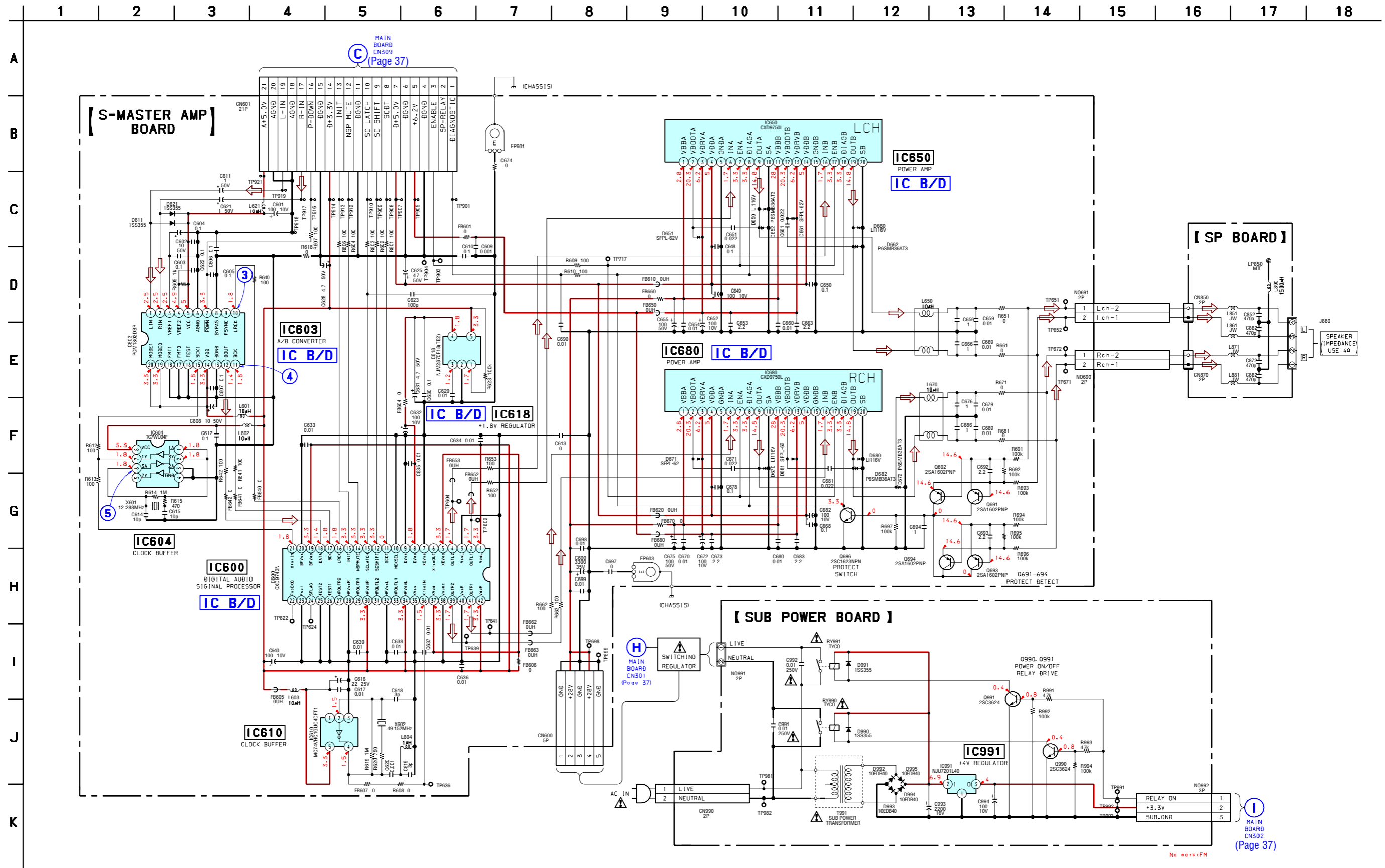
**E** MAIN BOARD CN303 (Page 37)



• Semiconductor Location

Ref. No.	Location
D611	F-2
D621	F-2
D650	H-4
D651	G-4
D652	B-4
D660	H-4
D661	H-4
D662	A-4
D670	F-4
D671	F-4
D672	D-4
D680	G-4
D681	F-4
D682	C-4
D990	D-8
D991	C-7
D992	B-7
D993	B-7
D994	B-7
D995	B-7
IC600	B-3
IC603	D-3
IC604	C-3
IC610	B-3
IC618	G-2
IC650	H-4
IC680	F-4
IC991	C-7
Q691	C-4
Q692	C-5
Q693	C-5
Q694	C-5
Q696	G-4
Q990	C-7
Q991	C-7

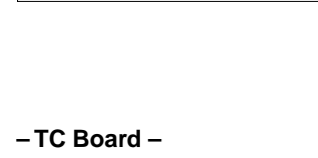
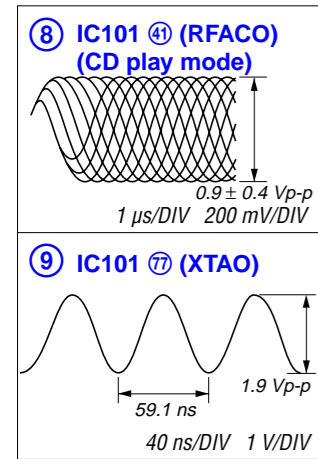
6-15. SCHEMATIC DIAGRAM — S-MASTER SECTION —



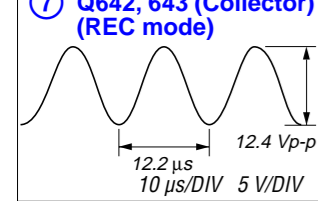
# HCD-CPX11

## • Waveforms

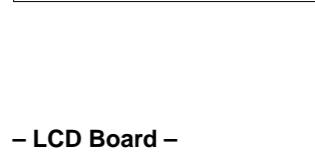
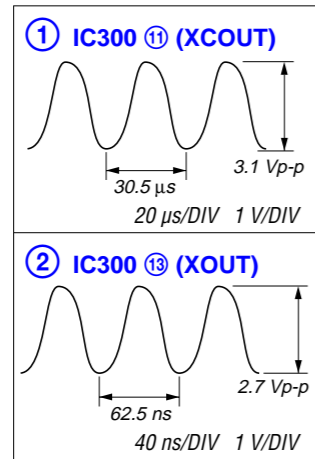
### - BD81A Board -



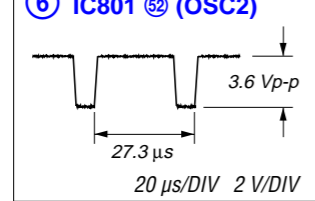
### - TC Board -



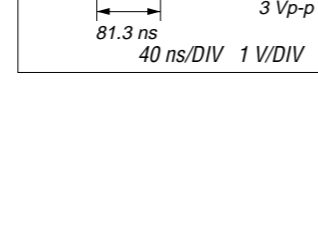
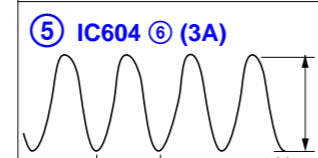
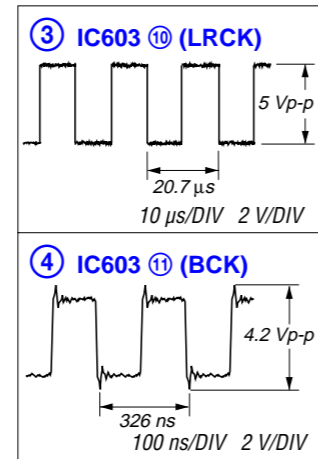
### - MAIN Board -



### - LCD Board -



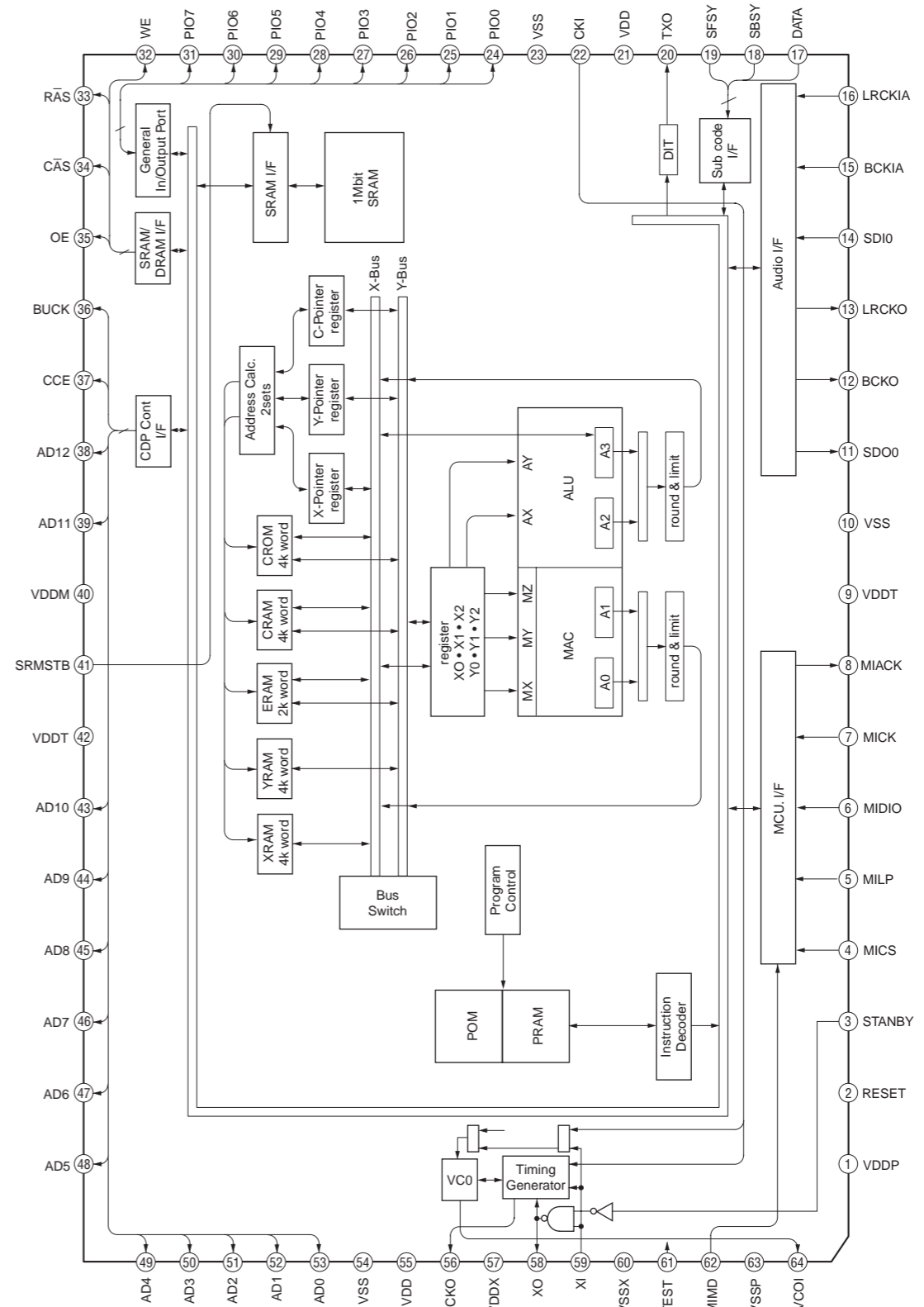
### - S-MASTER AMP Board -



## • IC BLOCK DIAGRAMS

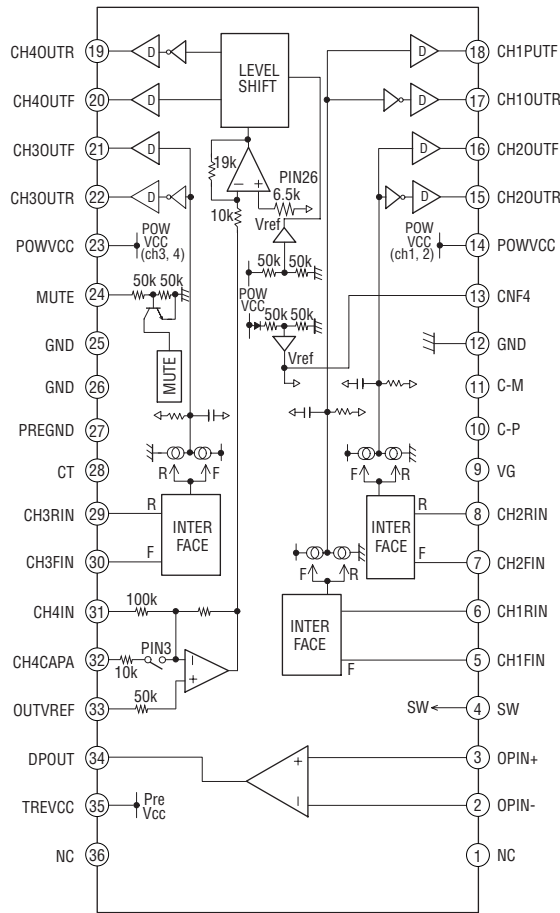
### - BD81A Board -

#### IC301 TC94A34FG-002



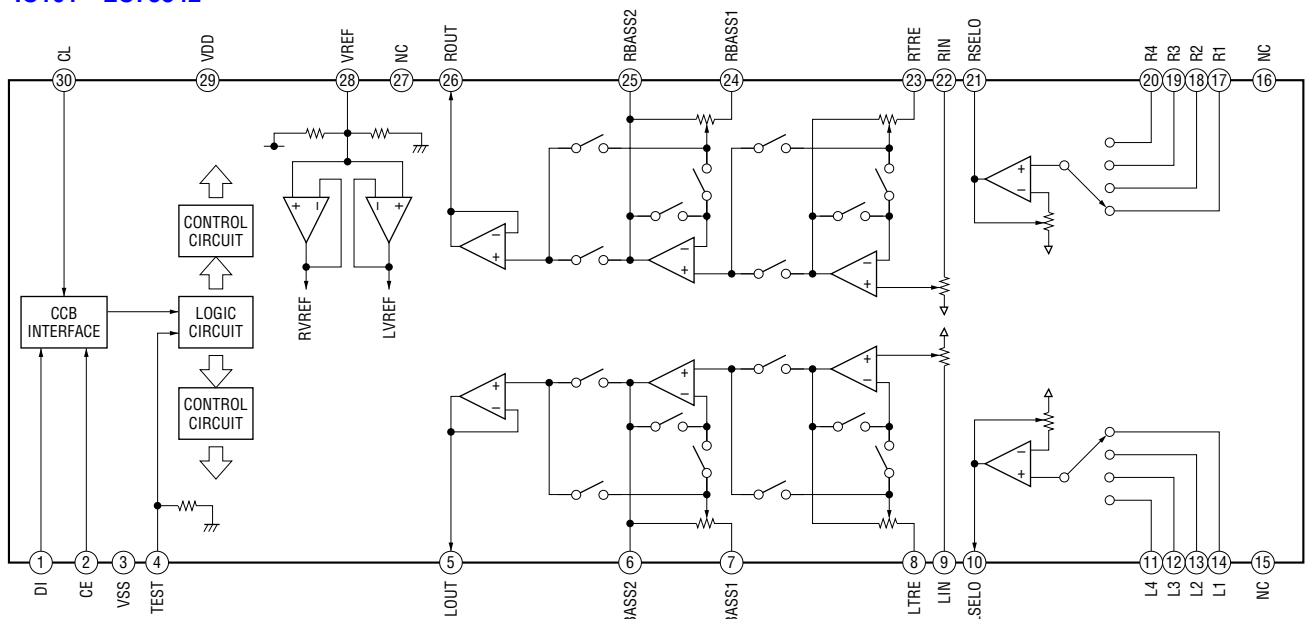


IC251 BA5947FM



– PRE AMP Board –

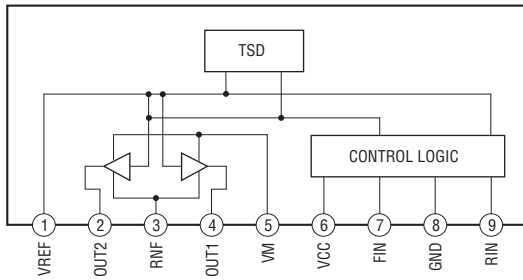
IC101 LC7534Z



# HCD-CPX11

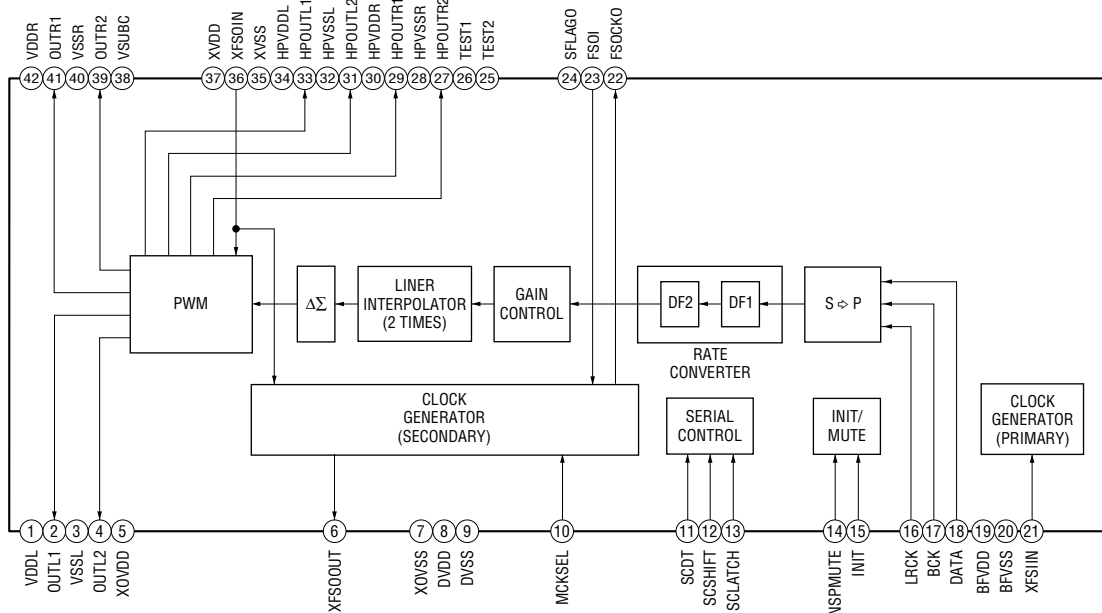
## - DRIVER Board -

### IC701 BA6956AN

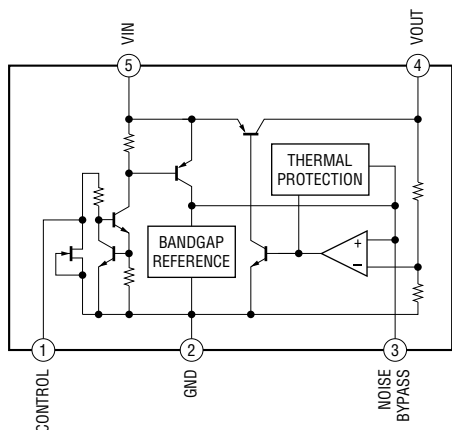


## - S-MASTER AMP Board -

### IC600 CXD9743N

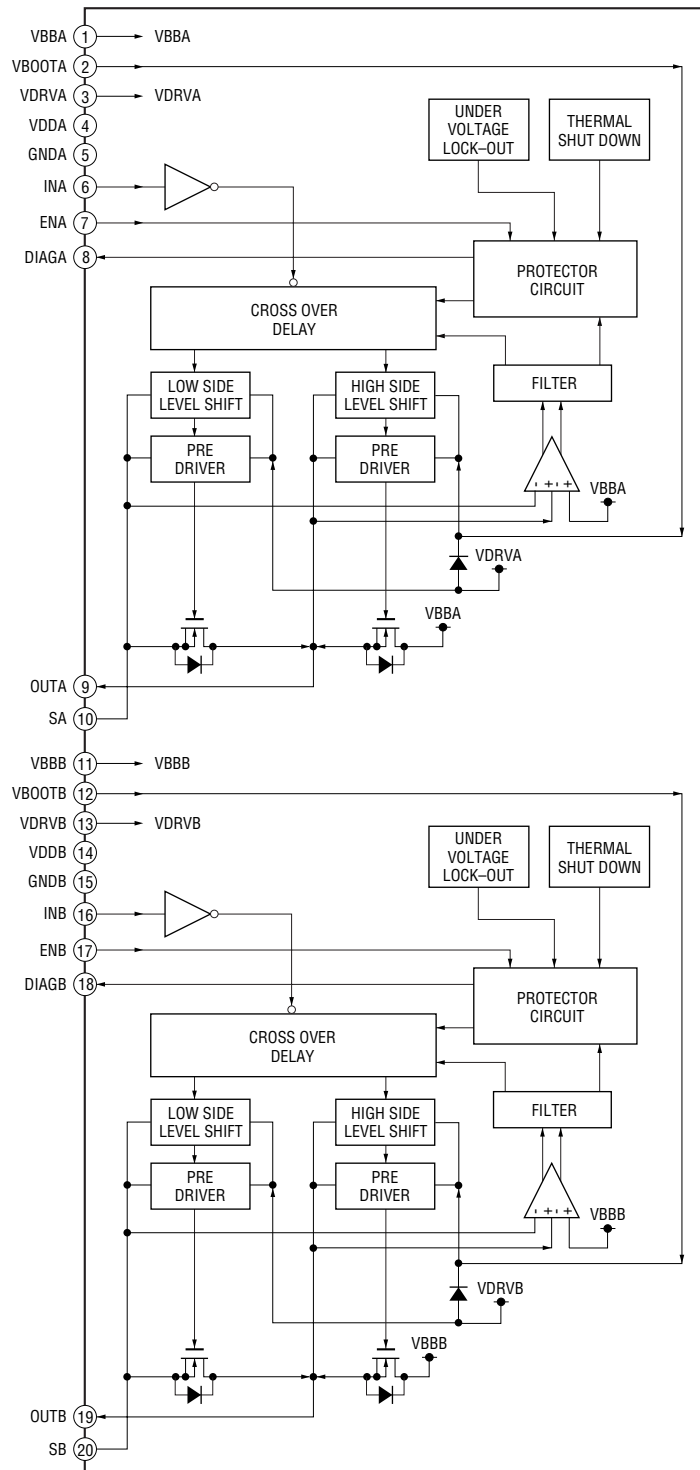


### IC618 NJM2870F18 (TE2)

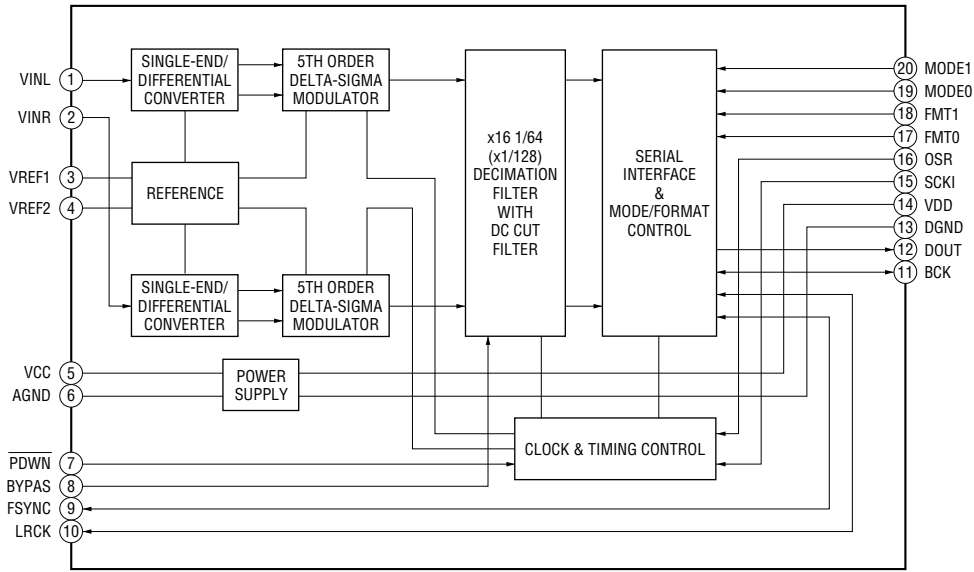




IC650, 680 CXD9750L

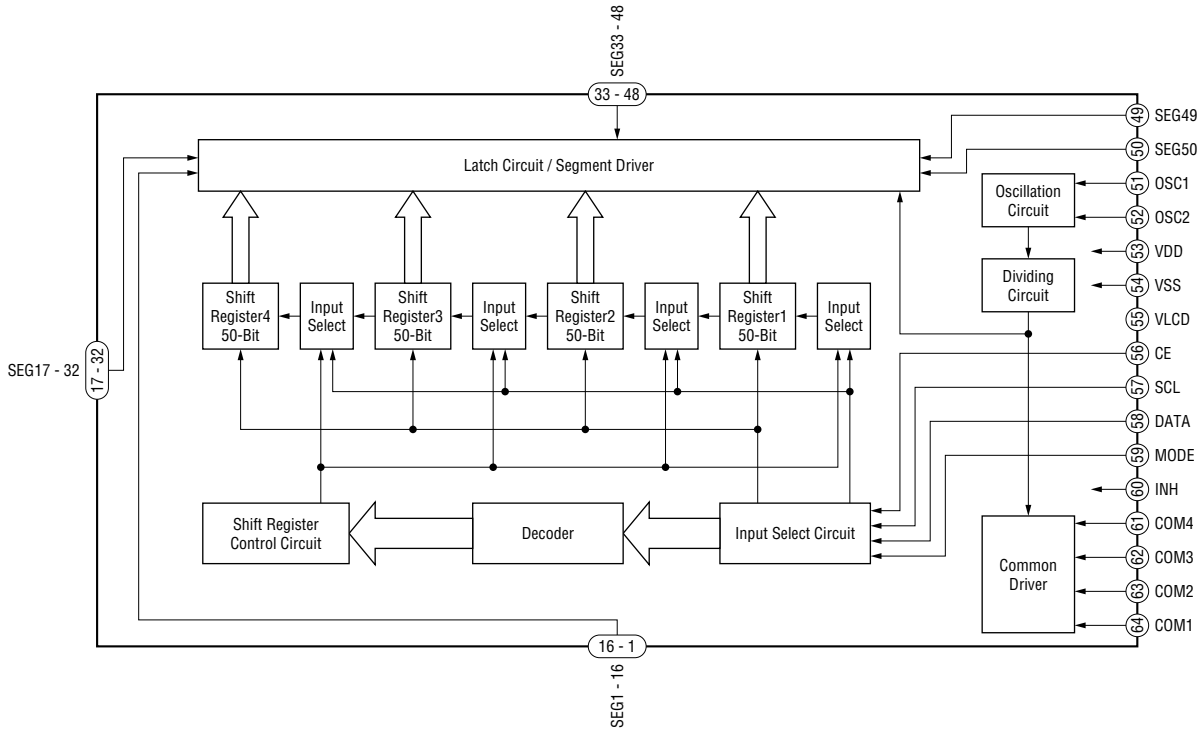


IC603 PCM1802DBR



– LCD Board –

IC801 NJU6433F



## 6-16. IC PIN FUNCTION DESCRIPTION

### • BD81A BOARD IC101 CXD3059AR (RF AMP)

Pin No.	Pin Name	I/O	Description
1	MIRR	I/O	Mirror signal input/output (Not used)
2	DFCT	I/O	Defect signal input/output (Not used)
3	FOK	I/O	Focus OK signal input/output (Not used)
4	VSS	—	Internal digital ground
5	LOCK	I/O	GFS is sampled at 460Hz; when GFS is high , this pin outputs a high signal If GFS is low eight consecutive
6	MDP	O	Spindle motor servo control output
7	SSTP	I	Disk innermost detection signal input
8	IOVSS1	—	I/O digital ground
9	SFDR	O	Sled drive output
10	SRDR	O	Sled drive output
11	TFDR	O	Tracking drive output
12	TRDR	O	Tracking drive output
13	FFDR	O	Focus drive output
14	FRDR	O	Focus drive output
15	IOVDD1	—	I/O digital power supply
16	AVDD0	—	Analog power supply
17	AVSS0	—	Analog ground
18	NC	—	Not used
19	E	I	E signal input
20	F	I	F signal input
21	TEI	I	Tracking error signal input to DSSP block
22	TEO	O	Tracking error signal output from RF amplifier block
23	FEI	I	Focus error signal input to DSSP block
24	FEO	O	Focus error signal output from RF amplifier block
25	VC	I/O	Center voltage output from RF amplifier block
26	A	I	A signal input
27	B	I	B signal input
28	C	I	C signal input
29	D	I	D signal input
30	NC	—	Not used
31	AVDD4	—	Analog power supply
32	RFDCO	O	RFDC signal output (Not used)
33	PDSSENS	I	Reference voltage pin for PD
34	AC_SUM	O	RFAC summing amplifier output
35	EQ_IN	I	Equalizer circuit input
36	LD	O	APC amplifier output
37	PD	I	APC amplifier input
38	NC	—	Not used
39	RFC	I	Equalizer cut-off frequency adjustment pin
40	AVSS4	—	Analog ground
41	RFACO	O	RFAC signal output
42	RFACI	I	RFAC signal input or EFM signal input
43	AVDD3	—	Analog power supply
44	BIAS	I	Asymmetry circuit constant current input
45	ASYI	I	Asymmetry comparator voltage input
46	ASYO	O	EFM full-swing output (Low = VSS, High = VDD)

Pin No.	Pin Name	I/O	Description
47	VPCO	O	Wide-band EFM PLL charge pump output (Not used)
48	VCTL	I	Wide-band EFM PLL VCO2 control voltage input
49	AVSS3	—	Analog ground
50	CLTV	I	Multiplier VCO1 control voltage input
51	FILO	O	Master PLL (slave = digital PLL) filter output
52	FILI	I	Master PLL filter input
53	PCO	O	Master PLL charge pump output
54	AVDD5	—	Analog power supply
55	DDVROUT	O	DC/DC converter output
56	DDVRSEN	I	DC/DC converter output voltage monitor pin
57	AVSS5	—	Analog ground
58	DDCR	I	DC/DC converter reset pin
59	NC	—	Not used
60	BCKI	I	D/A interface bit clock input
61	PCMDI	I	D/A interface serial data input (2's COMP, MSB first)
62	LRCKI	I	D/A interface LR clock input
63	LRCK	O	D/A interface LR clock output $f = F_s$
64	VSS	—	Internal digital ground
65	PCMD	O	D/A interface serial data output (2's COMP, MSB first)
66	BCK	O	D/A interface bit clock output
67	VDD	—	Internal digital power supply
68	EMPH	O	High when the playback disc has emphasis, low it has not
69	EMPHI	I	High when de-emphasis is ON, low when input OFF
70	IOVDD2	—	I/O digital power supply
71	DOUT	O	Digital Out output
72	TEST	I	Test pin Normally ground
73	TES1	I	Test pin Normally ground
74	IOVss2	—	I/O digital ground
75	NC	—	Not used
76	XVSS	—	Master clock ground
77	XTAO	O	Crystal oscillation circuit output
78	XTAI	I	Crystal oscillation circuit input
79	XVDD	—	Master clock power supply
80	AVDD1	—	Analog power supply
81	AOUT1	O	Lch analog output
82	VREFL	O	Lch reference voltage
83	AVSS1	—	Analog ground
84	AVSS2	—	Analog ground
85	VREFR	O	Rch reference voltage
86	AOUT2	O	Rch analog output
87	AVDD2	—	Analog power supply
88	NC	—	Not used
89	IOVDD0	—	I/O digital power supply
90	RMUT	O	Rch "0" detection flag (Not used)
91	LMUT	O	Lch "0" detection flag (Not used)
92	NC	—	Not used
93	XTSL	I	Crystal selection input (Not used)

Pin No.	Pin Name	I/O	Description
94	IOVSS0	—	I/O digital ground
95	XTACN	I	Oscillation circuit control Self-oscillation when high, oscillation stop when low
96	SQSO	O	Subcode Q 80-bit and PCM peak and level data output CD TEXT data output
97	SQCK	I	SQSO readout clock input
98	SBSO	O	Subcode P to W serial output
99	EXCK	I	SBSO readout clock input
100	XRST	I	System reset Reset when low
101	SYSTEM	I	Mute input Muted when high
102	D ATA	I	Serial data input from CPU
103	VSS	—	Internal digital ground
104	XLAT	I	Latch input from CPU The serial data is latched at the falling edge
105	CLOCK	I	Serial data transfer clock input from CPU
106	VDD	—	Internal digital power supply
107	SENS	O	SENS output to CPU
108	SCLK	I	SENS serial data readout clock input
109	ATSK	I/O	Anti-shock input/output (Not used)
110	WFCK	O	WFCK output (Not used)
111	XUGF	O	XUGF output (Not used)
112	XPCK	O	XPCK output (Not used)
113	GFS	O	GFS output (Not used)
114	C2PO	O	C2PO output (Not used)
115	SCOR	O	High output when the subcode sync, S0 or S1, is detected
116	VDD	—	Internal digital power supply
117	C4M	O	4 2336MHz output (Not used)
118	WDCK	O	Word clock output $f = 2Fs$ (Not used)
119	COUT	I/O	Track number count signal input/output (Not used)
120	NC	—	Not used

• MAIN BOARD IC300 M3062CMEN-A14FPU0 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	MILP	O	CS signal output to the digital signal processor
2	MP3 REQ	I	REQ output to CD digital processor signal output
3	MIACK	I	ACK input from CD digital processor input
4	SIRCS IN/WAKE	I	Remote control signal input terminal
5	MP3 DATA OUT	O	Serial data output to MP3
6	MP3 DATA IN	I	Serial data input from MP3
7	MP3 CLK	O	Serial data transfersignal output to MP3
8	BYTE	—	Not used
9	CNVSS	—	Ground terminal
10	XCIN	I	Sub system clock input terminal (32.768 kHz)
11	XCOUT	O	Sub system clock output terminal (32.768 kHz)
12	RESET	I	System reset signal input from the reset signal generator "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
13	XOUT	O	Main system clock output terminal (16 MHz)
14	VSS	—	Ground terminal
15	XIN	I	Main system clock input terminal (16 MHz)
16	VCC	—	Power supply terminal (+3.3V)
17	NMI	I	Non-maskable interrupt input terminal Not used
18	RDS CLK	I	Serial data transfer clock signal input from the RDS decoder Not used
19	CD SCOR	I	Subcode sync (S0+S1) detection signal input from the digital signal processor
20	AC CUT	I	AC off detection signal input from the reset signal generator "L": AC cut checked
21	MP3 RST	O	RESET output to CD digital processor
22	MICS	O	CS output to the CD digital processor
23	MP3 STB	O	MP3 STB output signal
24	CDM LOAD-IN	O	Motor drive signal (close direction) output terminal
25	CDM LOAD-OUT	O	Motor drive signal (open direction) output terminal
26	CDM SW3	I	Loading in/out detect switch input terminal "L": loading in
27	CDM SW1	I	Loading in/out detect switch input terminal "L": loading in
28	CDM SW2	I	Loading in/out detect switch input terminal "L": loading in
29	IIC CLK	I/O	Communication data transfer clock signal input/output terminal Not used
30	IIC DATA	I/O	Communication data bus terminal Not used
31	NO USE	—	Not used
32	CD SENS	I	Internal status detection monitor input from the digital signal processor
33	CD XRST	O	Reset signal output to the digital signal processor and motor/coil driver "L": reset
34	CD XTCN	O	CD XTCN signal output
35	CD DATA	O	Serial data output to the digital signal processor
36	CD XLT	O	Serial data latch pulse signal output to the digital signal processor
37	CD CLK	O	Serial data transfer clock signal output to the digital signal processor
38	CD BD-PWR	O	Power supply on/off control signal output for the CD section "H": power on
39	PWR RELAY	O	Main system power supply on/off control signal output terminal "H": power on
40	DIAG	I	Protect signal input from the power amplifier and protect detect circuit
41	ENA	O	Output enable control signal output to the power amplifier
42	SC DT	O	Serial data output to the digital audio signal processor
43	SC SHIFT	O	Serial data shift clock signal output to the digital audio signal processor
44	SC LATCH	O	Serial data latch pulse signal output to the digital audio signal processor

Pin No.	Pin Name	I/O	Description
45	NSP MUTE	O	Muting on/off control signal output to the digital audio signal processor “L”: muting on
46	INIT	O	Reset signal output to the digital audio signal processor “L”: reset
47	ST CLK	O	PLL serial data transfer clock signal output to the tuner unit
48	ST DATA IN	I	PLL serial data input from the tuner unit
49	ST DATA OUT	O	PLL serial data output to the tuner unit
50	ST CE	O	PLL chip enable signal output to the tuner unit
51	ST TUNED	I	Tuning detection signal input from the tuner unit “L”: tuned
52	ST STEREO	I	FM stereo detection signal input from the tuner unit “L”: stereo
53	ST MUTE	O	Tuner muting on/off control signal output to the tuner unit “H”: muting on
54	RDS DATA	I	Serial data input from the RDS decoder
55	EQ CLK	O	Serial data transfer clock signal output to the electrical volume
56	NO USE	—	Not used
57	EQ CE	O	Chip enable signal output to the electrical volume
58	HP MUTE	O	Headphone muting on/off control signal output terminal “H”: muting on
59	LINE MUTE	O	Audio line muting on/off control signal output terminal “H”: muting on
60	CD MUTE	O	CD analog signal muting on/off control signal output terminal “H”: muting on
61	TC ALC	O	Automatic limiter control signal output to the recording/playback equalizer amplifier “H”: limiter on
62	VCC	—	Power supply terminal (+3.3V)
63	SOFT TEST	O	Output terminal for the software test Not used
64	VSS	—	Ground terminal
65	TC REC/MUTE	O	Recording muting on/off control signal output to the recording/playback equalizer amplifier “L”: muting on
66	TC LINE MUTE	O	Line muting on/off control signal output to the recording/playback equalizer amplifier “H”: muting on
67	TC PB/REC	O	Recording/playback selection signal output terminal “L”: playback, “H”: recording
68	TC BIAS-ON	O	Recording bias on/off control signal output terminal “H”: bias on
69	TC PLAY SW	I	Head position detect switch input terminal
70	TC CAPM-CONT	O	Capstan/reel motor on/off control signal output terminal “H”: motor on
71	TC TRG	O	Trigger plunger on/off control signal output terminal “H”: plunger on
72	LCD INH	O	Reset signal output to the liquid crystal display driver “L”: reset
73	LCD MODE	O	Signal output for discriminating between command and display data to the liquid crystal display driver “L”: display data, “H”: command
74	KEY WAKE UP	I	System wake up signal input by pressing any key
75	LCD DATA/EQ DATA	O	Serial data output to the liquid crystal display driver
76	LCD SCL	O	Serial data transfer clock signal output to the liquid crystal display driver
77	LCD CE	O	Chip select signal output to the liquid crystal display driver “L” active
78	LCD ON/LCD BL	O	Power on/off control signal output for liquid crystal display “H”: power on
79	LED TC	O	LED drive signal output of the TAPE ◀▶ indicator “H”: LED on
80	LED TUNER	O	LED drive signal output of the TUNER BAND indicator “H”: LED on
81	LED STANDBY	O	LED drive signal output of the standby indicator “H”: LED on
82	LED DSG	O	LED drive signal output of the DSG indicator “H”: LED on
83	TRE A	I	Jog dial pulse input from the rotary encoder (TREBLE) (A phase input)
84	TRE B	I	Jog dial pulse input from the rotary encoder (TREBLE) (B phase input)
85	BASS A	I	Jog dial pulse input from the rotary encoder (BASS) (A phase input)

Pin No.	Pin Name	I/O	Description
86	BASS B	I	Jog dial pulse input from the rotary encoder (BASS) (B phase input)
87	VOL A	I	Jog dial pulse input from the rotary encoder (VOLUME) (A phase input)
88	VOL B	I	Jog dial pulse input from the rotary encoder (VOLUME) (B phase input)
89	LED CD	O	LED drive signal output of the CD ►   indicator "H": LED on
90	TC END SW	I	Tape end detect switch input terminal
91	TC HALF/REC/SW	I	Recording-proof claw (forward/reverse) detect switch and cassette in detect switch input terminal (A/D input)
92	MODEL	I	Model setting terminal
93	DEST	I	Destination setting terminal
94, 95	KEY3, KEY2	I	Front panel key input terminal (A/D input)
96	AVSS	—	Ground terminal (for analog system)
97	KEY1	I	Front panel key input terminal (A/D input)
98	VREF	I	Reference voltage (+3.3V) input terminal
99	AVCC	—	Power supply terminal (+3.3V) (for analog system)
100	HP DET	I	Headphone jack connection detection signal input terminal "L": no connected, "H": headphone connected



## SECTION 7 EXPLODED VIEWS

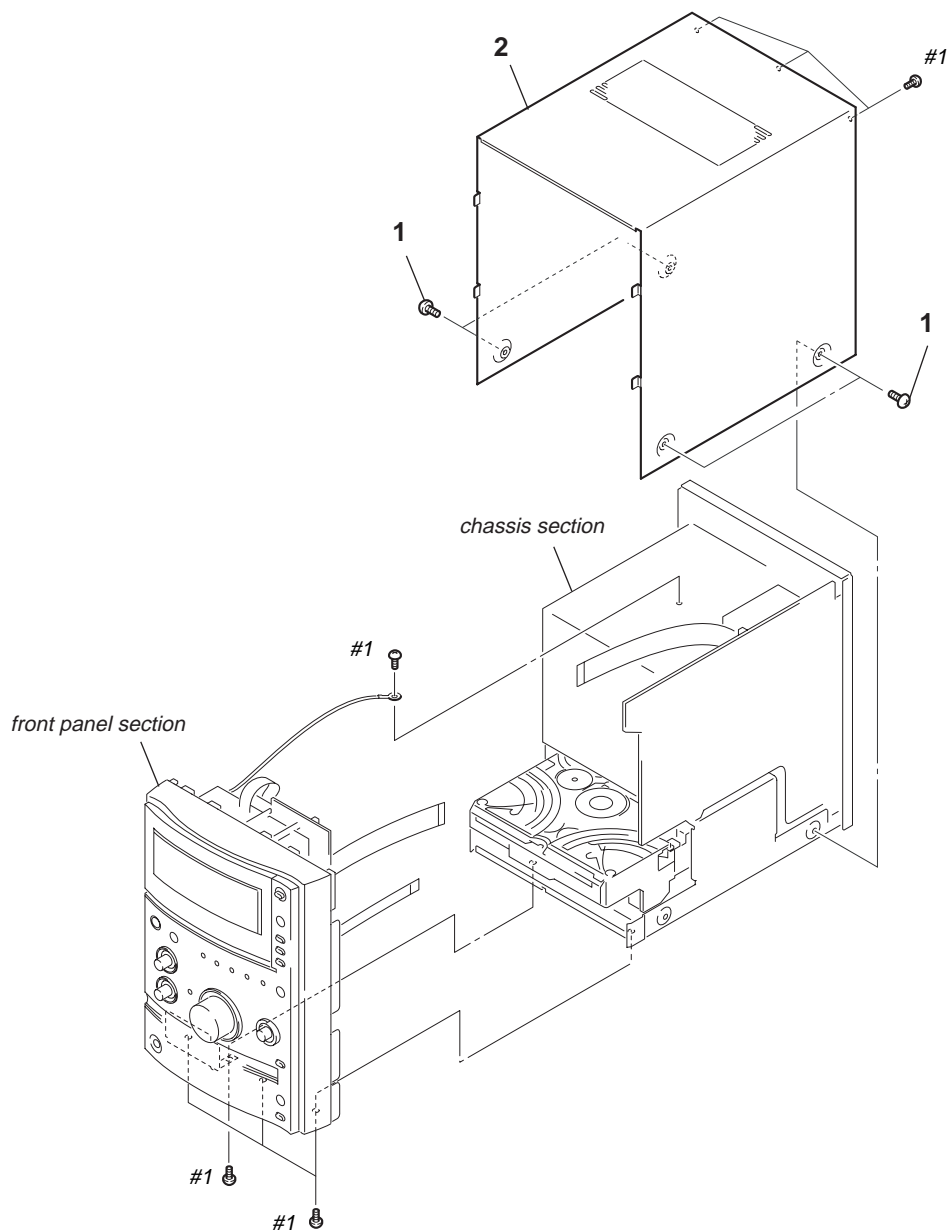
**NOTE:**

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation  
 AUS : Australian model  
 KR : Korean model

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

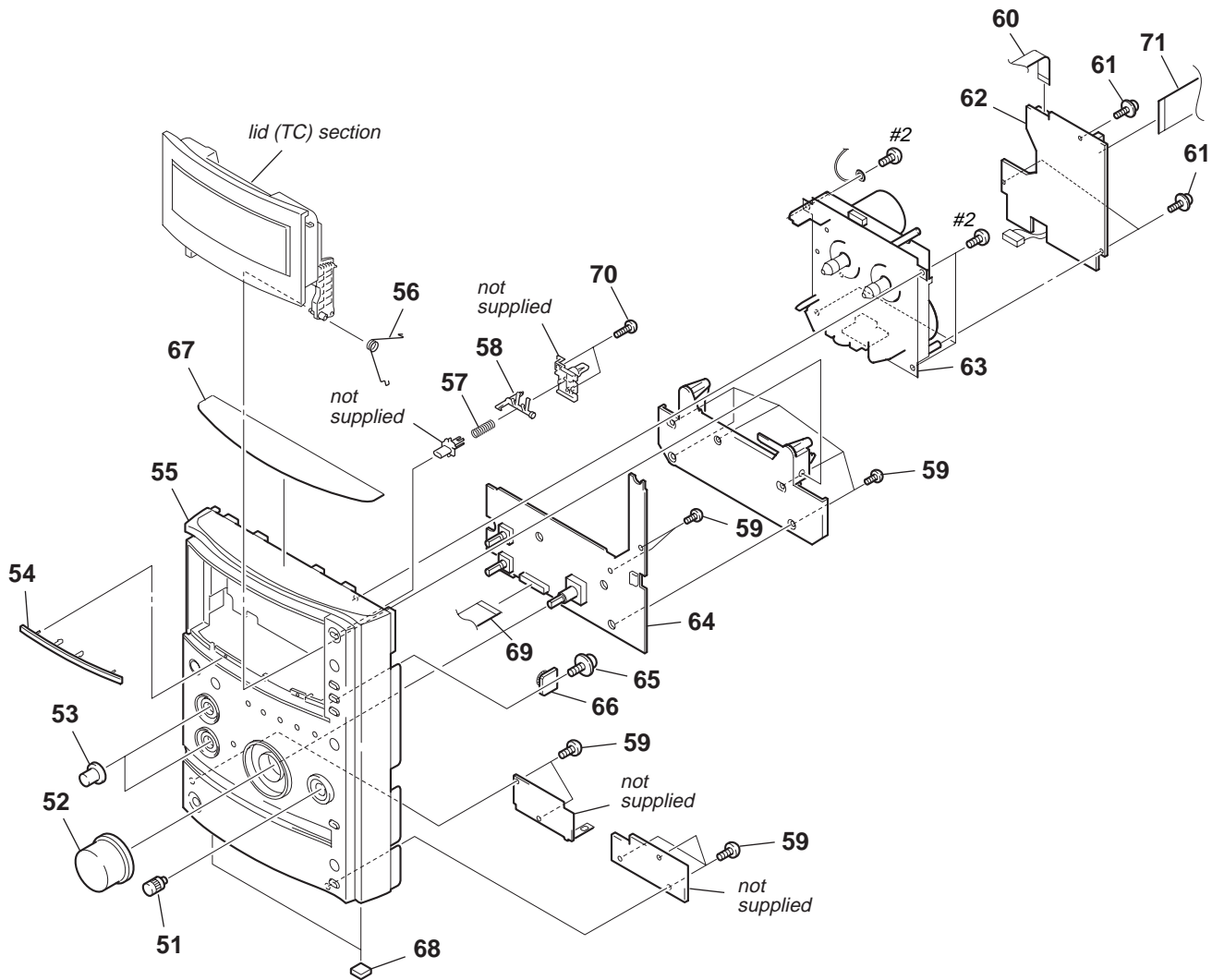
### 7-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
1	4-235-099-11	SCREW (CASE 3 TP2)	
2	4-244-016-21	COVER	
#1	7-685-645-79	SCREW +BVTP 3X6 TYPE2 TT (B)	

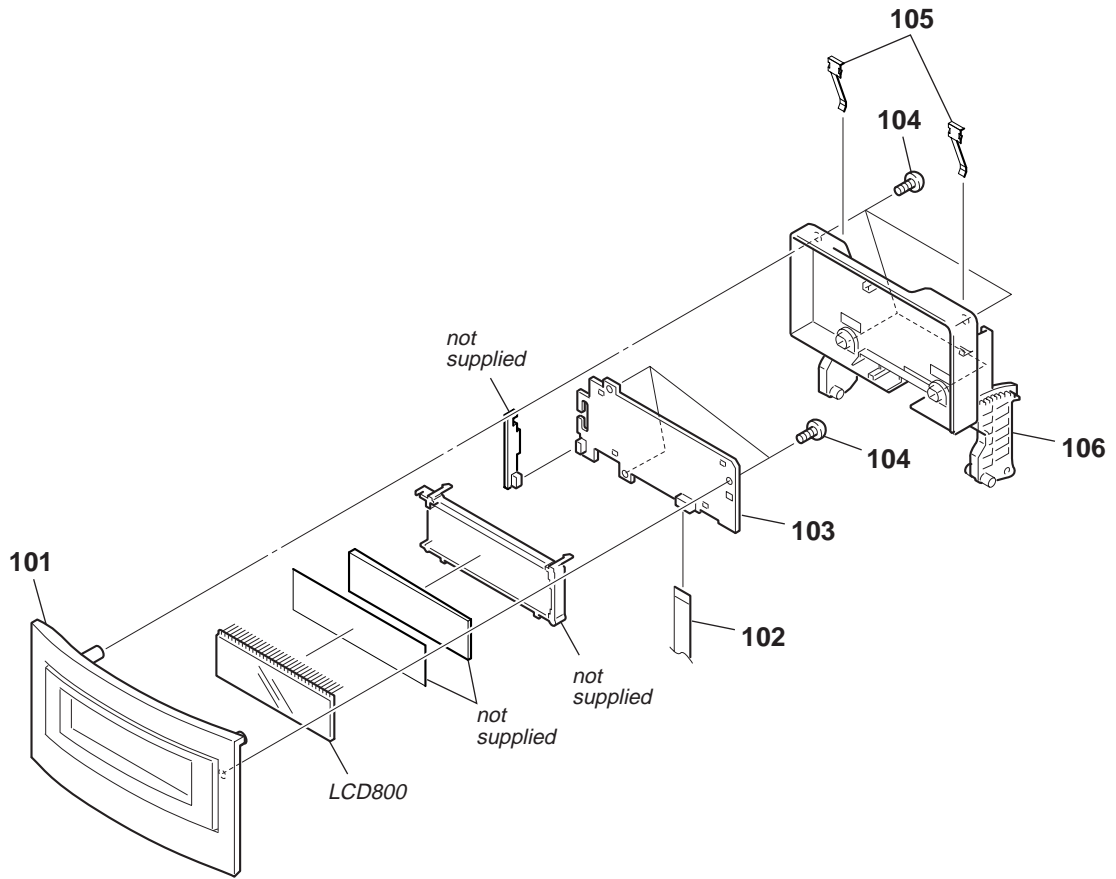
# HCD-CPX11

## 7-2. FRONT PANEL SECTION



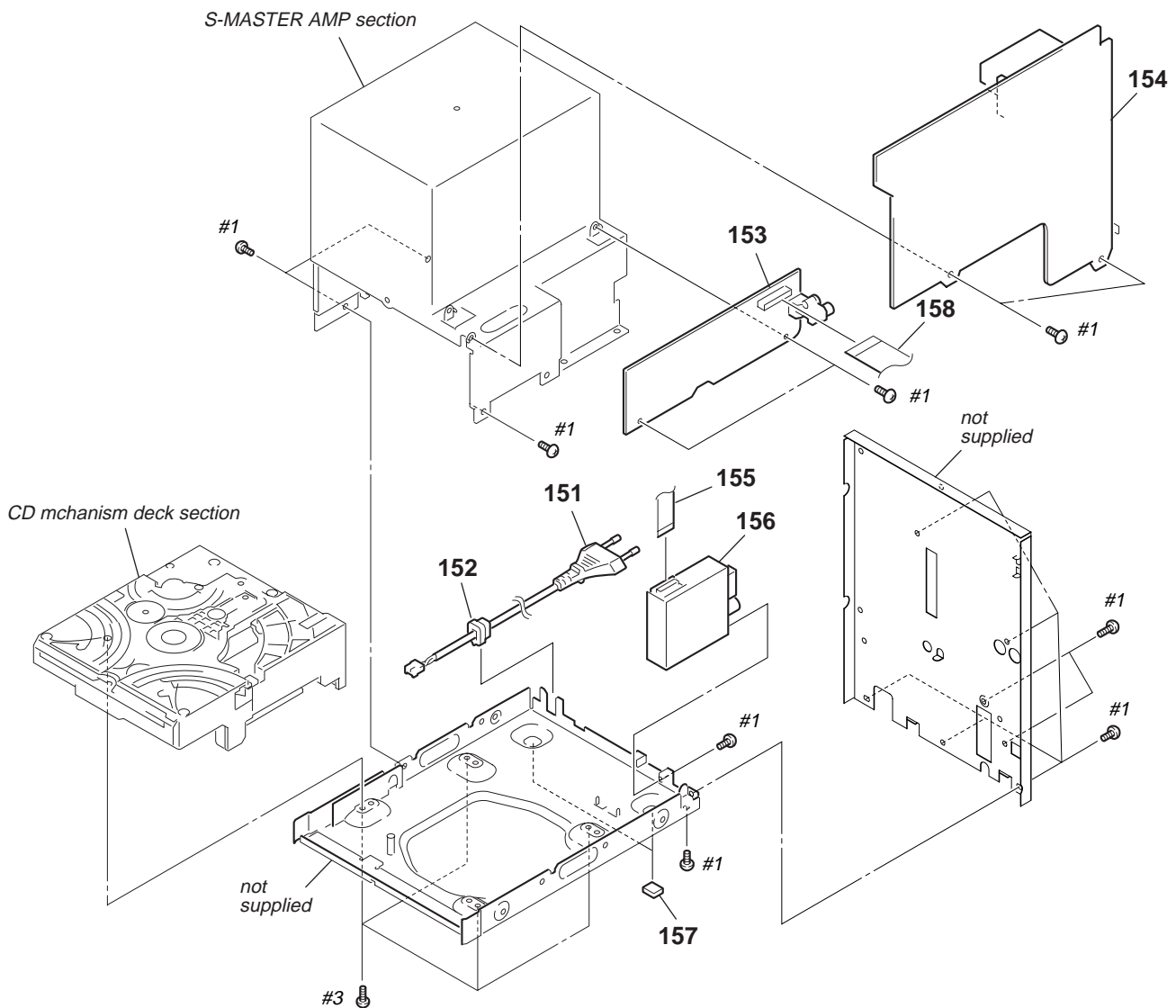
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-252-359-01	KNOB, TUNING		62	A-4750-369-A	TC BOARD, COMPLETE	
52	4-252-348-01	KNOB, VOLUME		63	1-796-456-31	DECK, MECHANICAL (CMAL1Z-236A)	
53	4-252-349-01	KNOB, BASS		64	A-4750-358-A	PANEL BOARD, COMPLETE	
54	4-252-352-01	BAND (UPPER), DIVISION		65	4-933-134-11	SCREW (+PTPWH M2.6X8)	
55	X-4956-171-1	PANEL ASSY, FRONT (AEP, UK)		66	4-244-530-01	DAMPER	
56	4-244-021-01	SPRING (LID TC), TORSION		67	4-252-396-01	PLATE (TOP), ORNAMENT	
57	4-244-023-01	SPRING (EJECT), COMPRESSION		68	4-233-372-02	FOOT (FELT)	
58	4-244-014-01	LEVER (EJECT)		69	1-773-120-11	WIRE (FLAT TYPE) (19 CORE)	
59	4-951-620-01	SCREW (2.6X8), +BVTP		70	4-951-620-31	SCREW (2.6), +BVTP	
60	1-824-192-11	WIRE (FLAT TYPE) (8 CORE)		71	1-773-110-11	WIRE (FLAT TYPE) (19 CORE)	
61	3-669-480-51	+ PTPWH 2		#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 TT (B)	

7-3. LID (TC) SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-4956-169-1	LID (TC) ASSY		105	4-244-022-01	SPRING (TC), LEAF	
102	1-769-912-11	WIRE (FLAT TYPE) (9 CORE)		106	4-252-353-01	HOLDER (TC)	
103	1-861-335-11	LCD BOARD		LCD800	1-805-545-11	DISPLAY PANEL, LIQUID CRYSTAL	
104	4-951-620-01	SCREW (2.6X8), +BVTP					

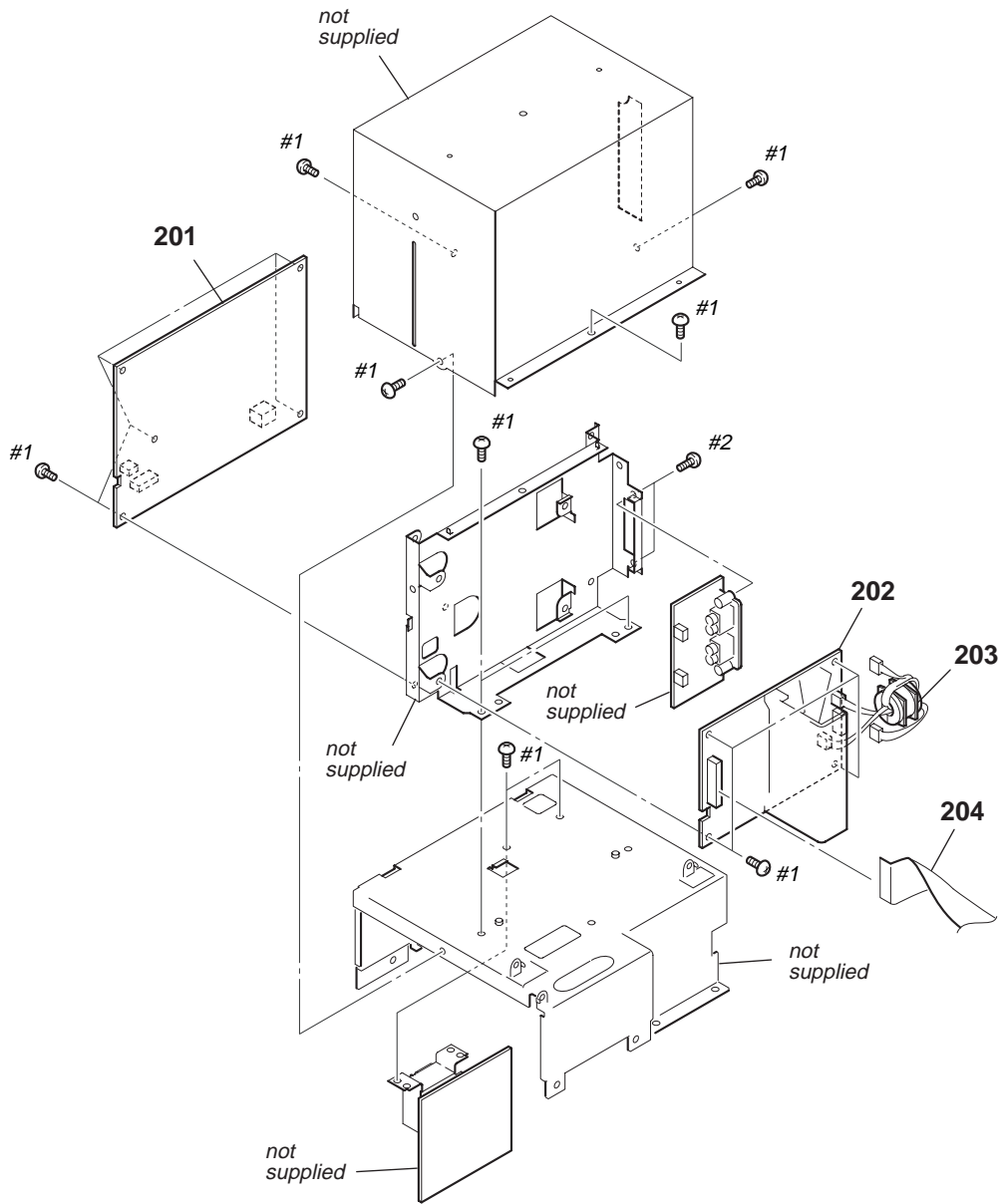
## 7-4. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
△ 151	1-769-079-23	CORD, POWER (KR)		155	1-824-486-11	WIRE (FLAT TYPE) (11 CORE) (KR, AUS)	
△ 151	1-777-071-83	CORD, POWER (AEP, UK)		156	1-693-603-31	TUNER (FM/AM) (AUS)	
△ 151	1-783-203-13	CORD, POWER (AUS)		156	1-693-604-11	TUNER (FM/AM) (AEP, UK)	
152	3-703-244-00	BUSHING (2104), CORD		156	1-693-605-11	TUNER (FM/AM) (KR)	
153	A-4750-356-A	PRE AMP BOARD, COMPLETE		157	4-233-372-02	FOOT (FELT)	
154	A-4750-353-A	MAIN BOARD, COMPLETE (AEP, UK)		158	1-773-105-11	WIRE (FLAT TYPE) (19 CORE)	
154	A-4750-940-A	MAIN BOARD, COMPLETE (KR, AUS)		#1	7-685-645-79	SCREW +BVTP 3X6 TYPE2 TT (B)	
155	1-777-353-11	FLAT CABLE (15 CORE) (AEP, UK)		#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 TT (B)	

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

7-5. S-MASTER AMP SECTION

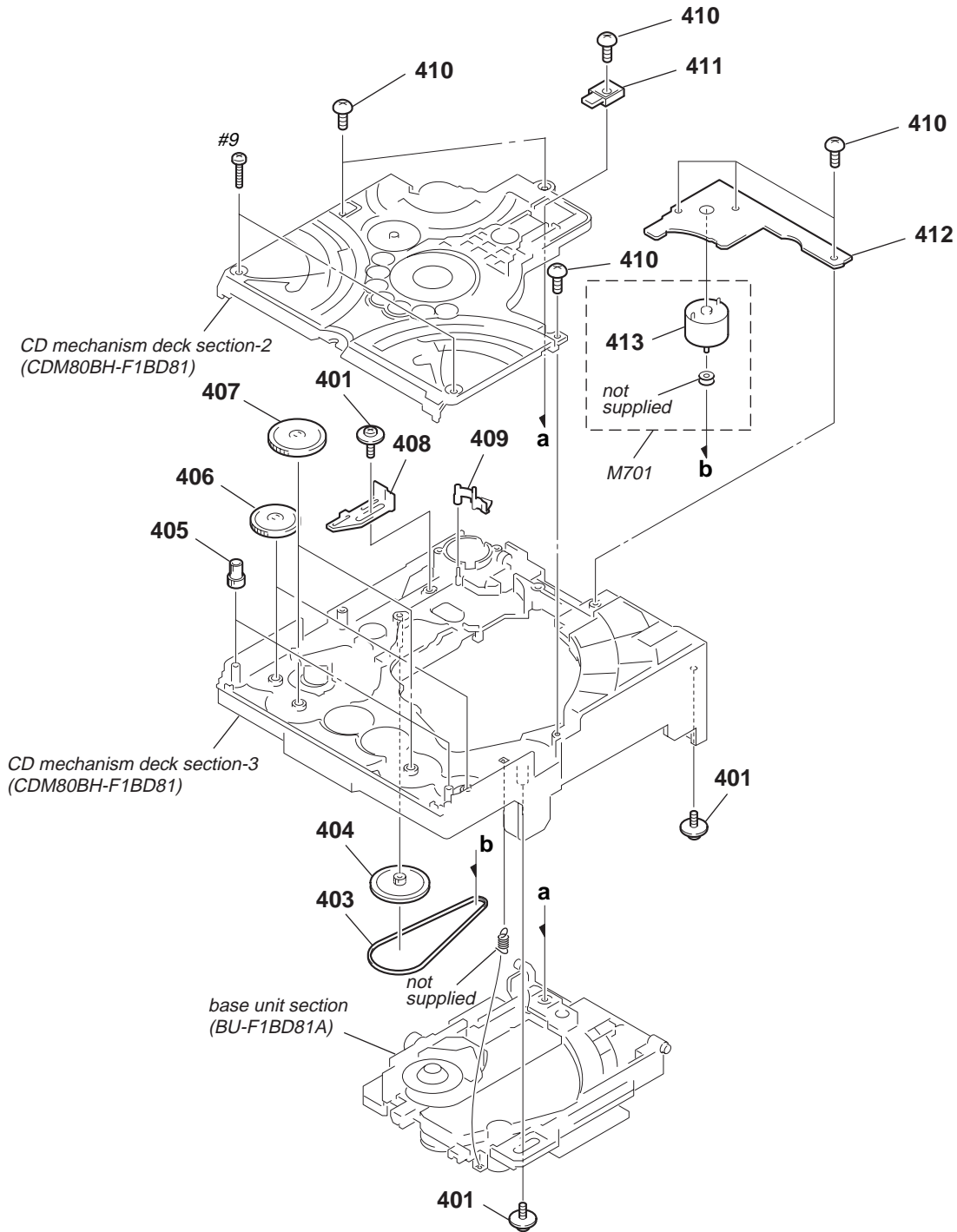


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
△ 201	1-468-730-11	REGULATOR, SWITCHING		204	1-773-158-11	WIRE (FLAT TYPE) (21 CORE)	
202	A-4750-366-A	S-MASTER AMP BOARD, COMPLETE		#1	7-685-645-79	SCREW +BVTP 3X6 TYPE2 TT (B)	
203	1-500-484-21	CLAMP, SLEEVE FERRITE		#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 TT (B)	

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

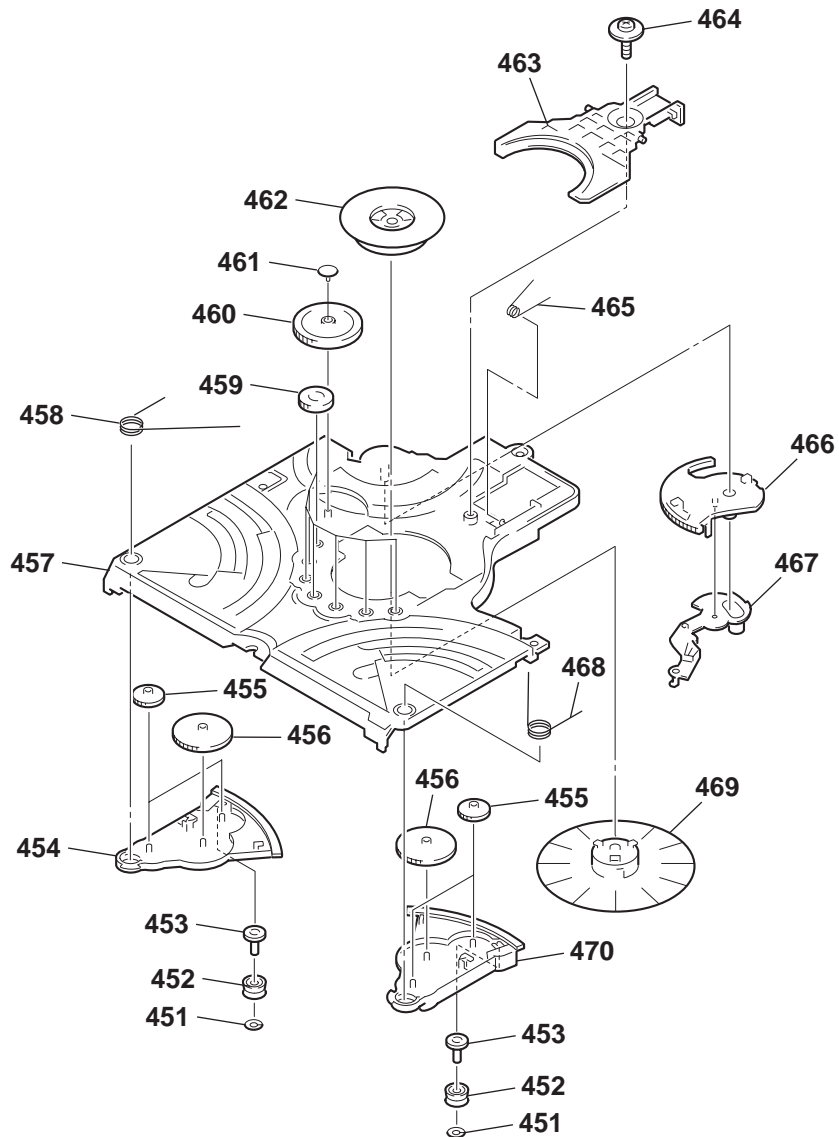
# HCD-CPX11

## 7-6. CD MECHANISM DECK SECTION-1 (CDM80BH-F1BD81)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
401	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING		409	4-245-630-01	LEVER (SW)	
403	4-245-653-01	BELT (MOT)		410	4-951-620-01	SCREW (2.6X8), +BVTP	
404	4-245-662-02	PULLEY (GEAR)		411	4-245-639-01	LEVER (CL UP2)	
405	4-245-646-01	GEAR (IDL-F)		412	1-688-337-11	DRIVER BOARD	
406	4-245-644-01	GEAR (IDL-D)		413	1-763-967-11	MOTOR, DC	
407	4-245-645-01	GEAR (IDL-E)		M701	X-2021-530-1	MOTOR (PULLEY) ASSY (LOADING)	
408	4-246-203-01	LEVER (RELEASE)		#9	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	

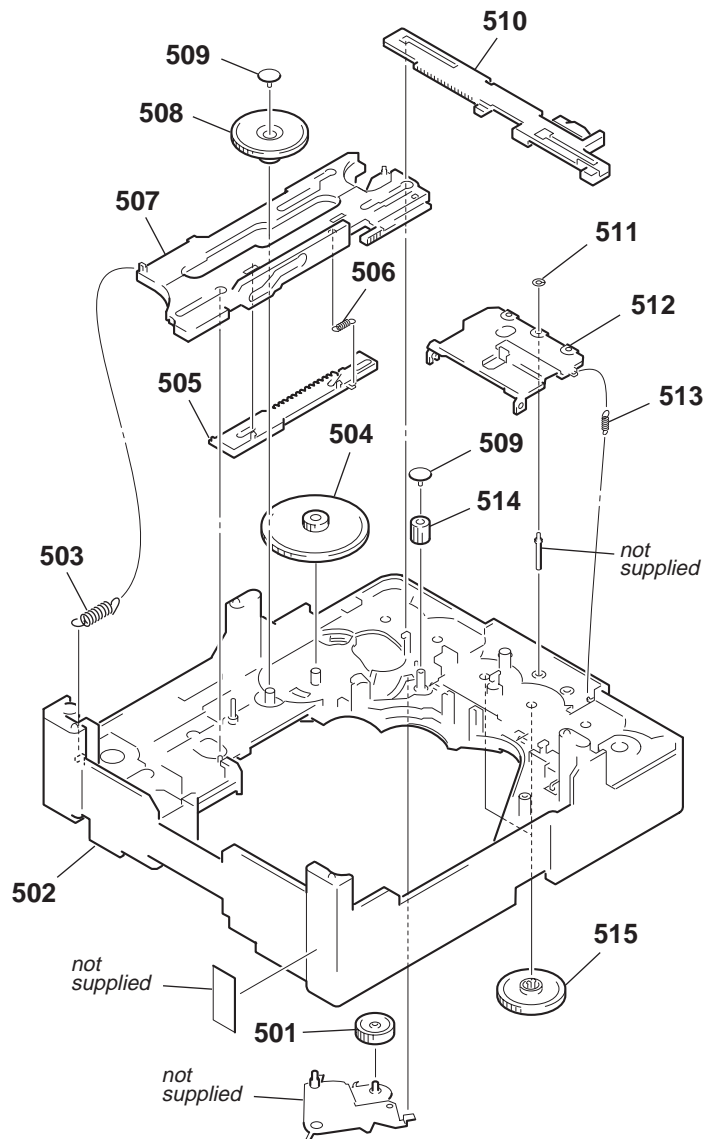
7-7. CD MECHANISM DECK SECTION-2  
(CDM80BH-F1BD81)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
451	4-245-627-01	WASHER (6-2.7-0.4)		461	4-245-640-01	GEAR (CAP)	
452	4-245-637-01	ROLLER, RUBBER		462	1-452-925-21	MAGNET ASSY	
453	4-245-649-01	GEAR (IDL-I)		463	4-245-638-01	LEVER (CL UP1)	
454	4-245-657-01	LEVER (LOADING-R)		464	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
455	4-245-647-01	GEAR (IDL-G)		465	4-245-636-01	SPR-T CL DOWN	
456	4-245-648-01	GEAR (IDL-H)		466	4-245-658-01	LEVER (DISC STOP)	
457	4-245-655-01	CHASSIS (TOP)		467	4-245-659-01	LEVER (DISC SENSOR)	
458	4-245-631-01	SPR-T (LOADING-R)		468	4-245-632-01	SPR-T (LOADING-L)	
459	4-245-650-01	GEAR (IDL-J)		469	X-2021-532-1	CLAMPER 213 ASSY	
460	4-245-651-01	GEAR (IDL-L)		470	4-245-656-01	LEVER (LOADING-L)	

# HCD-CPX11

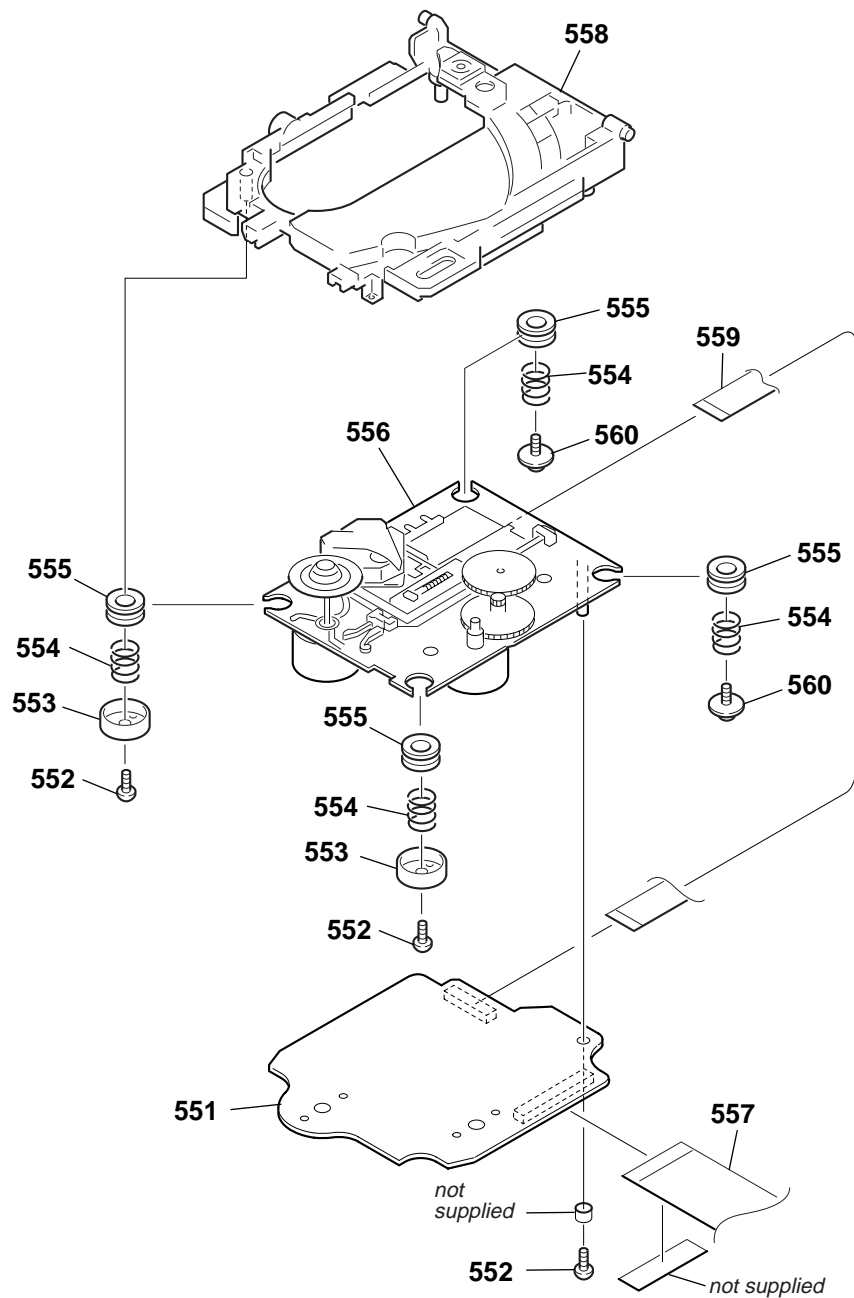
## 7-8. CD MECHANISM DECK SECTION-3 (CDM80BH-F1BD81)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501	4-245-643-01	GEAR (IDL-C)		509	4-245-640-01	GEAR (CAP)	
502	X-4956-147-1	CHASSIS (BOTTOM) ASSY		510	4-245-628-01	LEVER (BU LOCK)	
503	4-248-722-01	SPR-E, DIR		511	4-248-206-01	WASHER (3-1-0.4)	
504	4-245-642-01	GEAR (IDL-B)		512	4-245-624-01	LEVER, CLOSE	
505	4-245-814-01	LEVER (DIR FIRST)		513	4-245-635-01	SPR-E LEVER CLOSE	
506	4-245-633-01	SPR-E DIR BACK		514	4-245-629-01	GEAR (BU LOCK)	
507	4-245-660-01	LEVER (DIR)		515	4-245-644-01	GEAR (IDL-D)	
508	4-245-641-01	GEAR (IDL-A)					



7-9. BASE UNIT SECTION (BU-F1BD81A)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
551	A-4751-431-A	BD81A BOARD, COMPLETE		△ 556	8-820-244-01	OPTICAL PICK-UP (KSM-215DCP/G2NP)	
552	4-951-620-01	SCREW (2.6X8), +BVTP		557	1-775-241-11	WIRE (FLAT TYPE) (27 CORE)	
553	4-231-151-01	STOPPER (BU)		558	X-4956-146-1	HOLDER (BU215) ASSY	
554	4-227-045-31	SPRING (INSULATOR), COIL		559	1-827-992-11	WIRE (FLAT TYPE)(16 CORE)	
555	4-227-549-11	INSULATOR		560	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	

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

**SECTION 8  
ELECTRICAL PARTS LIST**

**BACK LIGHT**

**BD81A**

**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
- CAPACITORS  
uF:  $\mu$ F
- COILS  
uH:  $\mu$ H

- 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. .
- Accessories are given in the last of this parts list.
- Abbreviation  
AUS : Australian model  
KR : Korean model

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		BACK LIGHT BOARD *****		C172	1-162-920-11	CERAMIC CHIP 27PF	5% 50V
		< CONNECTOR >		C174	1-164-360-11	CERAMIC CHIP 0.1uF	16V
CN807	1-770-011-41	CONNECTOR, BOARD TO BOARD 4P		C181	1-164-360-11	CERAMIC CHIP 0.1uF	16V
		< DIODE >		C182	1-164-360-11	CERAMIC CHIP 0.1uF	16V
D806	8-719-075-50	DIODE SELS6B14C-TP5 (LCD BACK LIGHT)		C183	1-124-778-00	ELECT CHIP 22uF	20% 6.3V
D807	8-719-075-50	DIODE SELS6B14C-TP5 (LCD BACK LIGHT)		C184	1-124-778-00	ELECT CHIP 22uF	20% 6.3V
*****							
	A-4751-431-A	BD81A BOARD, COMPLETE *****		C185	1-164-315-11	CERAMIC CHIP 470PF	5% 50V
		< CAPACITOR >		C186	1-164-315-11	CERAMIC CHIP 470PF	5% 50V
C10	1-165-989-11	CERAMIC CHIP 10uF	10% 6.3V	C194	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C11	1-165-989-11	CERAMIC CHIP 10uF	10% 6.3V	C195	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C14	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C196	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C15	1-164-360-11	CERAMIC CHIP 0.1uF	16V				
C16	1-115-156-11	CERAMIC CHIP 1uF	10V	C201	1-128-995-21	ELECT CHIP 100uF	20% 10V
C17	1-126-246-11	ELECT CHIP 220uF	20% 4V	C203	1-128-995-21	ELECT CHIP 100uF	20% 10V
C18	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C209	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C111	1-162-967-11	CERAMIC CHIP 0.0033uF	10% 50V	C210	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C112	1-164-315-11	CERAMIC CHIP 470PF	5% 50V	C211	1-164-230-11	CERAMIC CHIP 220PF	5% 50V
C113	1-162-967-11	CERAMIC CHIP 0.0033uF	10% 50V	C212	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C114	1-164-315-11	CERAMIC CHIP 470PF	5% 50V	C213	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C115	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C251	1-162-969-11	CERAMIC CHIP 0.0068uF	10% 25V
C116	1-128-995-21	ELECT CHIP 100uF	20% 10V	C252	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C122	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	C255	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C123	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	C257	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C124	1-162-959-11	CERAMIC CHIP 330PF	5% 50V	C258	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C125	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C259	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C131	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	C260	1-128-394-11	ELECT CHIP 220uF	20% 10V
C132	1-117-863-11	CERAMIC CHIP 0.47uF	10% 6.3V	C302	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C133	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C303	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C134	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C305	1-126-246-11	ELECT CHIP 220uF	20% 4V
C141	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	C306	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C142	1-162-965-11	CERAMIC CHIP 0.0015uF	10% 50V	C307	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C143	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C308	1-126-208-21	ELECT CHIP 47uF	20% 4V
C151	1-128-995-21	ELECT CHIP 100uF	20% 10V	C309	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C161	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C310	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C162	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C311	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C163	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C312	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C171	1-162-919-11	CERAMIC CHIP 22PF	5% 50V	C313	1-164-360-11	CERAMIC CHIP 0.1uF	16V
				C314	1-126-208-21	ELECT CHIP 47uF	20% 4V
				C315	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
				C316	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
				C317	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
				C318	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
				C320	1-216-864-11	SHORT CHIP 0	

<b>BD81A</b>	<b>DRIVER</b>	<b>HP</b>
--------------	---------------	-----------

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< CONNECTOR >		R351	1-216-809-11	METAL CHIP	100 5% 1/10W
CN101	1-770-425-11	CONNECTOR, FFC/FPC 16P		R352	1-216-809-11	METAL CHIP	100 5% 1/10W
CN201	1-818-350-11	CONNECTOR (FFC) 27P		R353	1-216-809-11	METAL CHIP	100 5% 1/10W
		< FERRITE BEAD >		R354	1-216-809-11	METAL CHIP	100 5% 1/10W
FB301	1-500-445-21	FERRITE, EMI (SMD) (2012)		R401	1-216-809-11	METAL CHIP	100 5% 1/10W
		< IC >		R402	1-216-809-11	METAL CHIP	100 5% 1/10W
IC101	8-752-425-12	IC CXD3059AR		R403	1-216-809-11	METAL CHIP	100 5% 1/10W
IC251	6-705-808-01	IC BA5947FM		R404	1-216-809-11	METAL CHIP	100 5% 1/10W
IC301	6-705-365-01	IC TC94A34FG-002		R405	1-216-809-11	METAL CHIP	100 5% 1/10W
IC303	6-705-807-01	IC BH15FB1WG		R406	1-216-809-11	METAL CHIP	100 5% 1/10W
		< TRANSISTOR >		R407	1-216-809-11	METAL CHIP	100 5% 1/10W
Q10	6-550-363-01	TRANSISTOR 2SB1690KT146		R408	1-216-809-11	METAL CHIP	100 5% 1/10W
		< RESISTOR >		R409	1-216-809-11	METAL CHIP	100 5% 1/10W
R10	1-216-791-11	METAL CHIP	3.3 5% 1/10W	R410	1-216-809-11	METAL CHIP	100 5% 1/10W
R11	1-216-864-11	SHORT CHIP	0	R411	1-216-809-11	METAL CHIP	100 5% 1/10W
R12	1-216-845-11	METAL CHIP	100K 5% 1/10W	R412	1-216-809-11	METAL CHIP	100 5% 1/10W
R13	1-218-446-11	METAL CHIP	1 5% 1/10W	R419	1-216-809-11	METAL CHIP	100 5% 1/10W
R111	1-216-821-11	METAL CHIP	1K 5% 1/10W			< SWITCH >	
R112	1-216-835-11	METAL CHIP	15K 5% 1/10W	S101	1-771-853-11	SWITCH, DETECTION (LIMIT)	
R113	1-216-821-11	METAL CHIP	1K 5% 1/10W			< VIBRATOR >	
R114	1-216-835-11	METAL CHIP	15K 5% 1/10W	X171	1-767-408-21	VIBRATOR, CRYSTAL (16.9MHz)	
R121	1-216-835-11	METAL CHIP	15K 5% 1/10W	*****			
R131	1-216-857-11	METAL CHIP	1M 5% 1/10W	1-688-337-11	DRIVER BOARD	*****	
R132	1-216-833-11	METAL CHIP	10K 5% 1/10W			< CAPACITOR >	
R133	1-216-848-11	METAL CHIP	180K 5% 1/10W	C705	1-162-306-11	CERAMIC	0.01uF 20% 16V
R141	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C711	1-126-964-11	ELECT	10uF 20% 50V
R142	1-216-821-11	METAL CHIP	1K 5% 1/10W			< CONNECTOR >	
R143	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	CN701	1-785-333-11	PIN, CONNECTOR (LIGHT ANGLE) 7P	
R151	1-216-864-11	SHORT CHIP	0			< DIODE >	
R161	1-216-809-11	METAL CHIP	100 5% 1/10W	D701	8-719-921-40	DIODE MTZJ-4.7C	
R162	1-216-841-11	METAL CHIP	47K 5% 1/10W			< IC >	
R163	1-216-809-11	METAL CHIP	100 5% 1/10W	IC701	8-759-598-69	IC BA6956AN	
R165	1-216-864-11	SHORT CHIP	0			< RESISTOR >	
R171	1-216-817-11	METAL CHIP	470 5% 1/10W	R701	1-249-415-11	CARBON	680 5% 1/4W
R172	1-216-857-11	METAL CHIP	1M 5% 1/10W	R702	1-247-807-31	CARBON	100 5% 1/4W
R173	1-216-295-91	SHORT CHIP	0			< SWITCH >	
R181	1-216-809-11	METAL CHIP	100 5% 1/10W	S701	1-762-951-13	SWITCH, PUSH (OUT)	
R182	1-216-809-11	METAL CHIP	100 5% 1/10W	S702	1-762-951-13	SWITCH, PUSH (CHUCK)	
R191	1-216-864-11	SHORT CHIP	0	S703	1-762-951-13	SWITCH, PUSH (TRIGGER)	
R201	1-500-445-21	FERRITE, EMI (SMD) (2012)		*****			
R203	1-216-864-11	SHORT CHIP	0			HP BOARD	*****
R204	1-500-445-21	FERRITE, EMI (SMD) (2012)				< CAPACITOR >	
R205	1-216-864-11	SHORT CHIP	0	C891	1-164-156-11	CERAMIC CHIP	0.1uF 25V
R251	1-216-833-11	METAL CHIP	10K 5% 1/10W	C892	1-164-156-11	CERAMIC CHIP	0.1uF 25V
R252	1-216-837-11	METAL CHIP	22K 5% 1/10W				
R253	1-216-833-11	METAL CHIP	10K 5% 1/10W				
R301	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R302	1-216-833-11	METAL CHIP	10K 5% 1/10W				
R303	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R305	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R306	1-216-864-11	SHORT CHIP	0				
R307	1-216-833-11	METAL CHIP	10K 5% 1/10W				
R313	1-216-813-11	METAL CHIP	220 5% 1/10W				

# HCD-CPX11

**HP**    **LCD**    **MAIN**

Ref. No.	Part No.	Description	Remark
C894	1-164-156-11	CERAMIC CHIP 0.1uF	25V
< FERRITE BEAD >			
FB891	1-216-864-11	SHORT CHIP 0	
FB893	1-216-864-11	SHORT CHIP 0	
FB894	1-216-864-11	SHORT CHIP 0	
< JACK >			
J801	1-815-603-11	JACK (PHONES)	
*****			
	1-861-335-11	LCD BOARD	
*****			
< CAPACITOR >			
C854	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C856	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C857	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C858	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C859	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C860	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
< CONNECTOR >			
CN805	1-784-731-11	CONNECTOR, FFC 9P	
CN806	1-770-010-21	CONNECTOR, BOARD TO BOARD 4P	
< SHORT >			
JR801	1-216-296-11	SHORT CHIP 0	
JR802	1-216-296-11	SHORT CHIP 0	
JR803	1-216-296-11	SHORT CHIP 0	
JR804	1-216-296-11	SHORT CHIP 0	
JR805	1-216-296-11	SHORT CHIP 0	
JR806	1-216-296-11	SHORT CHIP 0	
< LIQUID CRYSTAL DISPLAY >			
LCD800	1-805-545-11	DISPLAY PANEL, LIQUID CRYSTAL	
< RESISTOR >			
R841	1-216-817-11	METAL CHIP 470 5%	1/10W
R842	1-216-817-11	METAL CHIP 470 5%	1/10W
R843	1-216-817-11	METAL CHIP 470 5%	1/10W
R844	1-216-817-11	METAL CHIP 470 5%	1/10W
R851	1-216-847-11	METAL CHIP 150K 5%	1/10W
R853	1-216-821-11	METAL CHIP 1K 5%	1/10W
R854	1-216-833-11	METAL CHIP 10K 5%	1/10W
R856	1-216-809-11	METAL CHIP 100 5%	1/10W
R857	1-216-809-11	METAL CHIP 100 5%	1/10W
R858	1-216-809-11	METAL CHIP 100 5%	1/10W
R859	1-216-809-11	METAL CHIP 100 5%	1/10W
R860	1-216-809-11	METAL CHIP 100 5%	1/10W
*****			
A-4750-353-A	MAIN BOARD, COMPLETE (AEP, UK)		
A-4750-940-A	MAIN BOARD, COMPLETE (KR, AUS)		
*****			
7-685-645-79	SCREW +BVTP 3X6 TYPE2 TT (B)		

Ref. No.	Part No.	Description	Remark
< CAPACITOR >			
C213	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C218	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C219	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C221	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C222	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C223	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C224	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C228	1-104-658-91	ELECT 100uF 20%	10V
C229	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C230	1-104-658-91	ELECT 100uF 20%	10V
C231	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C232	1-104-658-91	ELECT 100uF 20%	10V
C233	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C234	1-104-658-91	ELECT 100uF 20%	10V
C235	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C236	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C237	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C238	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C239	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C240	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C241	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C251	1-126-961-11	ELECT 2.2uF 20%	50V
C252	1-126-961-11	ELECT 2.2uF 20%	50V
C267	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C268	1-104-658-91	ELECT 100uF 20%	10V
C301	1-126-916-11	ELECT 1000uF 20%	6.3V
C310	1-162-917-11	CERAMIC CHIP 15PF 5%	50V
C311	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
C312	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C316	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C331	1-126-964-11	ELECT 10uF 20%	50V
C332	1-126-964-11	ELECT 10uF 20%	50V
C351	1-126-937-11	ELECT 4700uF 20%	16V
C352	1-126-956-91	ELECT 0.1uF 20%	50V
C353	1-126-925-91	ELECT 470uF 20%	10V
C354	1-126-956-91	ELECT 0.1uF 20%	50V
C355	1-126-925-91	ELECT 470uF 20%	10V
C356	1-126-956-91	ELECT 0.1uF 20%	50V
C357	1-126-925-91	ELECT 470uF 20%	10V
C358	1-126-956-91	ELECT 0.1uF 20%	50V
C359	1-104-658-91	ELECT 100uF 20%	10V
C360	1-126-925-91	ELECT 470uF 20%	10V
C364	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C401	1-126-964-11	ELECT 10uF 20%	50V
C450	1-104-658-91	ELECT 100uF 20%	10V
C451	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C502	1-130-495-00	MYLAR 0.1uF 5%	50V
C503	1-130-495-00	MYLAR 0.1uF 5%	50V
< CONNECTOR >			
CN201	1-779-295-11	CONNECTOR, FFC (LIF (NON-ZIF)) 27P	
CN202	1-785-319-11	PIN, CONNECTOR (STRAIGHT) 7P	
CN301	1-564-505-11	PLUG, CONNECTOR 2P	
CN302	1-785-315-11	PIN, CONNECTOR (STRAIGHT) 3P	
CN303	1-784-780-11	CONNECTOR, FFC 19P	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
CN304	1-568-828-11	CONNECTOR, FFC 9P		Q202	8-729-027-43	TRANSISTOR	DTC114EKA-T146
CN306	1-784-780-11	CONNECTOR, FFC 19P		Q331	8-729-027-23	TRANSISTOR	DTA114EKA-T146
CN307	1-568-830-11	CONNECTOR, FFC 11P (KR, AUS)		Q332	8-729-027-43	TRANSISTOR	DTC114EKA-T146
CN307	1-784-776-11	CONNECTOR, FFC 15P (AEP, UK)		Q333	8-729-027-30	TRANSISTOR	DTA123YKA-T146
CN308	1-784-780-11	CONNECTOR, FFC 19P					
CN309	1-568-838-11	CONNECTOR, FFC 21P		Q334	8-729-027-43	TRANSISTOR	DTC114EKA-T146
		< DIODE >		Q340	8-729-027-43	TRANSISTOR	DTC114EKA-T146
D201	8-719-988-61	DIODE 1SS355TE-17		Q341	8-729-027-23	TRANSISTOR	DTA114EKA-T146
D202	6-500-522-31	DIODE 10EDB40-TB5		Q342	8-729-107-43	TRANSISTOR	2SC3624-L18
D203	6-500-522-31	DIODE 10EDB40-TB5		Q343	8-729-107-43	TRANSISTOR	2SC3624-L18
D204	6-500-522-31	DIODE 10EDB40-TB5					
D205	6-500-522-31	DIODE 10EDB40-TB5		Q401	8-729-119-78	TRANSISTOR	2SC2785-HFE
						< RESISTOR >	
D301	8-719-988-61	DIODE 1SS355TE-17		R251	1-216-821-11	METAL CHIP	1K 5% 1/10W
D302	8-719-988-61	DIODE 1SS355TE-17		R252	1-216-821-11	METAL CHIP	1K 5% 1/10W
D303	8-719-988-61	DIODE 1SS355TE-17		R253	1-216-845-11	METAL CHIP	100K 5% 1/10W
D304	8-719-988-61	DIODE 1SS355TE-17		R254	1-216-845-11	METAL CHIP	100K 5% 1/10W
D350	6-500-522-31	DIODE 10EDB40-TB5		R301	1-216-809-11	METAL CHIP	100 5% 1/10W
D351	6-500-522-31	DIODE 10EDB40-TB5		R302	1-216-809-11	METAL CHIP	100 5% 1/10W
D352	6-500-522-31	DIODE 10EDB40-TB5		R303	1-216-809-11	METAL CHIP	100 5% 1/10W
D374	8-719-988-61	DIODE 1SS355TE-17		R304	1-216-809-11	METAL CHIP	100 5% 1/10W
D375	8-719-988-61	DIODE 1SS355TE-17		R305	1-216-809-11	METAL CHIP	100 5% 1/10W
D401	8-719-988-61	DIODE 1SS355TE-17		R306	1-216-809-11	METAL CHIP	100 5% 1/10W
D402	8-719-988-61	DIODE 1SS355TE-17		R307	1-216-809-11	METAL CHIP	100 5% 1/10W
D403	8-719-988-61	DIODE 1SS355TE-17		R309	1-216-833-11	METAL CHIP	10K 5% 1/10W
D404	8-719-988-61	DIODE 1SS355TE-17		R311	1-216-851-11	METAL CHIP	330K 5% 1/10W
D442	1-216-295-91	SHORT CHIP 0		R313	1-216-864-11	SHORT CHIP	0
D443	1-216-295-91	SHORT CHIP 0		R317	1-216-833-11	METAL CHIP	10K 5% 1/10W
		< EARTH TERMINAL >		R318	1-216-809-11	METAL CHIP	100 5% 1/10W (AEP, UK)
* EP301	1-537-738-21	TERMINAL, EARTH		R319	1-216-809-11	METAL CHIP	100 5% 1/10W
* EP302	1-537-738-21	TERMINAL, EARTH		R320	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
		< FERRITE BEAD >		R321	1-216-809-11	METAL CHIP	100 5% 1/10W
FB201	1-414-772-11	FERRITE. EMI (SMD) (2012)		R322	1-216-809-11	METAL CHIP	100 5% 1/10W
FB203	1-414-772-11	FERRITE. EMI (SMD) (2012)		R323	1-216-809-11	METAL CHIP	100 5% 1/10W
FB205	1-414-772-11	FERRITE. EMI (SMD) (2012)		R326	1-216-809-11	METAL CHIP	100 5% 1/10W
FB207	1-414-772-11	FERRITE. EMI (SMD) (2012)		R327	1-216-809-11	METAL CHIP	100 5% 1/10W
FB214	1-414-772-11	FERRITE. EMI (SMD) (2012)		R328	1-216-809-11	METAL CHIP	100 5% 1/10W
FB216	1-414-772-11	FERRITE. EMI (SMD) (2012)		R332	1-216-809-11	METAL CHIP	100 5% 1/10W
FB225	1-414-772-11	FERRITE. EMI (SMD) (2012)		R333	1-216-809-11	METAL CHIP	100 5% 1/10W
FB227	1-414-772-11	FERRITE. EMI (SMD) (2012)		R334	1-216-809-11	METAL CHIP	100 5% 1/10W
FB301	1-216-864-11	SHORT CHIP 0		R335	1-216-809-11	METAL CHIP	100 5% 1/10W
FB302	1-216-864-11	SHORT CHIP 0		R336	1-216-809-11	METAL CHIP	100 5% 1/10W
FB303	1-216-864-11	SHORT CHIP 0		R337	1-216-809-11	METAL CHIP	100 5% 1/10W
		< IC >		R339	1-216-809-11	METAL CHIP	100 5% 1/10W
IC201	8-759-701-59	IC NJM78M09FA		R340	1-216-809-11	METAL CHIP	100 5% 1/10W
IC202	8-759-071-48	IC TA7807S		R341	1-216-809-11	METAL CHIP	100 5% 1/10W
IC203	6-703-546-01	IC TA7804LS		R342	1-216-809-11	METAL CHIP	100 5% 1/10W
IC204	8-759-231-53	IC TA7805S		R343	1-216-809-11	METAL CHIP	100 5% 1/10W
IC300	6-804-485-01	IC M3062CMEN-A14FPU0		R344	1-216-809-11	METAL CHIP	100 5% 1/10W
IC401	8-759-532-64	IC M62703SL-TP		R345	1-216-809-11	METAL CHIP	100 5% 1/10W
IC450	8-749-019-25	IC TOTX141 (CD DIGITAL OUT (OPTICAL))		R346	1-216-809-11	METAL CHIP	100 5% 1/10W
		< TRANSISTOR >		R347	1-216-809-11	METAL CHIP	100 5% 1/10W
Q201	8-729-049-79	TRANSISTOR RT1P137S-TP		R348	1-216-809-11	METAL CHIP	100 5% 1/10W
				R349	1-216-809-11	METAL CHIP	100 5% 1/10W
				R350	1-216-809-11	METAL CHIP	100 5% 1/10W
				R351	1-216-809-11	METAL CHIP	100 5% 1/10W
				R352	1-216-809-11	METAL CHIP	100 5% 1/10W
				R353	1-216-809-11	METAL CHIP	100 5% 1/10W

# HCD-CPX11

**MAIN**      **PANEL**

Ref. No.	Part No.	Description	Quantity	Percentage	Remark	Ref. No.	Part No.	Description	Quantity	Percentage	Remark
R354	1-216-809-11	METAL CHIP	100	5%	1/10W (AEP, UK)	R483	1-216-833-11	METAL CHIP	10K	5%	1/10W
R355	1-216-809-11	METAL CHIP	100	5%	1/10W	R484	1-216-833-11	METAL CHIP	10K	5%	1/10W
R357	1-216-809-11	METAL CHIP	100	5%	1/10W	R485	1-216-833-11	METAL CHIP	10K	5%	1/10W
R361	1-216-809-11	METAL CHIP	100	5%	1/10W	R486	1-216-833-11	METAL CHIP	10K	5%	1/10W
R365	1-216-809-11	METAL CHIP	100	5%	1/10W	R487	1-216-833-11	METAL CHIP	10K	5%	1/10W
R366	1-216-809-11	METAL CHIP	100	5%	1/10W	R488	1-216-833-11	METAL CHIP	10K	5%	1/10W
R367	1-216-809-11	METAL CHIP	100	5%	1/10W	R493	1-216-864-11	SHORT CHIP	0	(AEP, UK)	
R368	1-216-809-11	METAL CHIP	100	5%	1/10W	R494	1-216-833-11	METAL CHIP	10K	5%	1/10W
R369	1-216-809-11	METAL CHIP	100	5%	1/10W	R495	1-216-833-11	METAL CHIP	10K	5%	1/10W
R370	1-216-809-11	METAL CHIP	100	5%	1/10W	R497	1-216-833-11	METAL CHIP	10K	5%	1/10W
R371	1-216-809-11	METAL CHIP	100	5%	1/10W	R500	1-216-833-11	METAL CHIP	10K	5%	1/10W
R372	1-216-809-11	METAL CHIP	100	5%	1/10W	< VIBRATOR >					
R373	1-216-809-11	METAL CHIP	100	5%	1/10W	X401	1-795-482-11	VIBRATOR, CERAMIC (16MHz)			
R375	1-216-809-11	METAL CHIP	100	5%	1/10W	X402	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)			
R376	1-216-809-11	METAL CHIP	100	5%	1/10W	*****					
R377	1-216-809-11	METAL CHIP	100	5%	1/10W	A-4750-358-A	PANEL BOARD, COMPLETE				
R378	1-216-809-11	METAL CHIP	100	5%	1/10W	*****					
R379	1-216-809-11	METAL CHIP	100	5%	1/10W	< CAPACITOR >					
R380	1-216-809-11	METAL CHIP	100	5%	1/10W	C803	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R381	1-216-809-11	METAL CHIP	100	5%	1/10W	C804	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R382	1-216-809-11	METAL CHIP	100	5%	1/10W	C805	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R383	1-216-809-11	METAL CHIP	100	5%	1/10W	C806	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R384	1-216-809-11	METAL CHIP	100	5%	1/10W	C807	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R385	1-216-809-11	METAL CHIP	100	5%	1/10W	C808	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R386	1-216-809-11	METAL CHIP	100	5%	1/10W	C817	1-126-947-11	ELECT	47uF	20%	35V
R387	1-216-809-11	METAL CHIP	100	5%	1/10W	< CONNECTOR >					
R388	1-216-809-11	METAL CHIP	100	5%	1/10W	CN801	1-784-780-11	CONNECTOR, FFC 19P			
R389	1-216-809-11	METAL CHIP	100	5%	1/10W	CN802	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE) 4P			
R390	1-216-809-11	METAL CHIP	100	5%	1/10W	< DIODE >					
R391	1-216-809-11	METAL CHIP	100	5%	1/10W	D812	8-719-046-36	DIODE SEL5921A-TP15 (DSGX)			
R392	1-216-864-11	SHORT CHIP	0			D813	8-719-812-44	DIODE TLO124 (STAND BY)			
R393	1-216-864-11	SHORT CHIP	0	(KR, AUS)		D816	8-719-046-36	DIODE SEL5921A-TP15 (TUNER/BAND)			
R394	1-216-797-11	METAL CHIP	10	5%	1/10W	D818	8-719-046-36	DIODE SEL5921A-TP15 (TAPE ◀▶)			
R395	1-216-797-11	METAL CHIP	10	5%	1/10W	< IC >					
R397	1-216-797-11	METAL CHIP	10	5%	1/10W	IC802	6-600-349-31	IC NJL24H400A (R)			
R400	1-216-809-11	METAL CHIP	100	5%	1/10W	< TRANSISTOR >					
R401	1-216-813-11	METAL CHIP	220	5%	1/10W	Q812	8-729-027-43	TRANSISTOR DTC114EKA-T146			
R402	1-216-833-11	METAL CHIP	10K	5%	1/10W	Q813	8-729-027-43	TRANSISTOR DTC114EKA-T146			
R403	1-216-841-11	METAL CHIP	47K	5%	1/10W	Q816	8-729-027-43	TRANSISTOR DTC114EKA-T146			
R404	1-216-841-11	METAL CHIP	47K	5%	1/10W	Q818	8-729-027-43	TRANSISTOR DTC114EKA-T146			
R405	1-216-833-11	METAL CHIP	10K	5%	1/10W	< RESISTOR >					
R406	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R801	1-216-821-11	METAL CHIP	1K	5%	1/10W
R418	1-216-864-11	SHORT CHIP	0	(KR, AUS)		R802	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R420	1-216-833-11	METAL CHIP	10K	5%	1/10W	R803	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R426	1-216-833-11	METAL CHIP	10K	5%	1/10W	R804	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R427	1-216-833-11	METAL CHIP	10K	5%	1/10W	R805	1-216-821-11	METAL CHIP	1K	5%	1/10W
R428	1-216-833-11	METAL CHIP	10K	5%	1/10W	R806	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R429	1-216-833-11	METAL CHIP	10K	5%	1/10W	R807	1-216-821-11	METAL CHIP	1K	5%	1/10W
R430	1-216-833-11	METAL CHIP	10K	5%	1/10W	R808	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R430	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R440	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R442	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R443	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R450	1-216-809-11	METAL CHIP	100	5%	1/10W						
R451	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R452	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R455	1-216-864-11	SHORT CHIP	0	(KR, AUS)							
R474	1-216-857-11	METAL CHIP	1M	5%	1/10W						

PANEL

PRE AMP

Ref. No.	Part No.	Description	Remark
R809	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R810	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R811	1-216-833-11	METAL CHIP 10K 5%	1/10W
R812	1-216-837-11	METAL CHIP 22K 5%	1/10W
R813	1-216-809-11	METAL CHIP 100 5%	1/10W
R814	1-216-809-11	METAL CHIP 100 5%	1/10W
R815	1-216-809-11	METAL CHIP 100 5%	1/10W
R816	1-216-809-11	METAL CHIP 100 5%	1/10W
R821	1-216-817-11	METAL CHIP 470 5%	1/10W
R822	1-216-817-11	METAL CHIP 470 5%	1/10W
R823	1-216-817-11	METAL CHIP 470 5%	1/10W
R825	1-216-805-11	METAL CHIP 47 5%	1/10W
R826	1-216-817-11	METAL CHIP 470 5%	1/10W
R828	1-216-817-11	METAL CHIP 470 5%	1/10W
< VARIABLE RESISTOR >			
RV803	1-476-730-11	ENCODER, ROTARY (VOLUME)	
RV805	1-418-859-21	ENCODER, ROTARY (BASS)	
RV807	1-418-859-21	ENCODER, ROTARY (TREBLE)	
< SWITCH >			
S801	1-762-875-21	SWITCH, KEYBOARD (I/⏪)	
S802	1-762-875-21	SWITCH, KEYBOARD (DSGX)	
S803	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE/DIRECTION/TUNING MODE)	
S804	1-762-875-21	SWITCH, KEYBOARD (REPEAT/FM MODE)	
S805	1-762-875-21	SWITCH, KEYBOARD (CD SYNCHRO)	
S806	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)	
S807	1-771-574-21	SWITCH, TACTILE (TUNING + >>>▶▶▶)	
S808	1-771-574-21	SWITCH, TACTILE (- TUNING ◀◀◀ ◀◀)	
S809	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)	
S810	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)	
S811	1-762-875-21	SWITCH, KEYBOARD ((CD) ▲)	
S812	1-762-875-21	SWITCH, KEYBOARD (● REC)	
S813	1-762-875-21	SWITCH, KEYBOARD ((TAPE) ▨)	
S814	1-762-875-21	SWITCH, KEYBOARD ((TAPE) ▩)	
S815	1-762-875-21	SWITCH, KEYBOARD (TAPE ◀▶)	
*****			
A-4750-356-A	PRE AMP BOARD, COMPLETE		
*****			
< CAPACITOR >			
C101	1-162-957-11	CERAMIC CHIP 220PF 5%	50V
C102	1-126-960-11	ELECT 1uF 20%	50V
C103	1-126-960-11	ELECT 1uF 20%	50V
C104	1-126-960-11	ELECT 1uF 20%	50V
C105	1-126-960-11	ELECT 1uF 20%	50V
C106	1-126-960-11	ELECT 1uF 20%	50V
C107	1-126-960-11	ELECT 1uF 20%	50V
C108	1-130-476-00	MYLAR 0.0027uF 5%	50V
C109	1-130-496-00	MYLAR 0.12uF 5%	50V
C110	1-130-496-00	MYLAR 0.12uF 5%	50V
C111	1-126-964-11	ELECT 10uF 20%	50V
C121	1-126-964-11	ELECT 10uF 20%	50V
C122	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V
C123	1-126-964-11	ELECT 10uF 20%	50V
C124	1-126-923-91	ELECT 220uF 20%	10V

Ref. No.	Part No.	Description	Remark
C129	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C131	1-104-658-91	ELECT 100uF 20%	10V
C132	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C133	1-104-658-91	ELECT 100uF 20%	10V
C141	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C151	1-162-957-11	CERAMIC CHIP 220PF 5%	50V
C152	1-126-960-11	ELECT 1uF 20%	50V
C153	1-126-960-11	ELECT 1uF 20%	50V
C154	1-126-960-11	ELECT 1uF 20%	50V
C155	1-126-960-11	ELECT 1uF 20%	50V
C156	1-126-960-11	ELECT 1uF 20%	50V
C157	1-126-960-11	ELECT 1uF 20%	50V
C158	1-130-476-00	MYLAR 0.0027uF 5%	50V
C159	1-130-496-00	MYLAR 0.12uF 5%	50V
C160	1-130-496-00	MYLAR 0.12uF 5%	50V
C161	1-126-964-11	ELECT 10uF 20%	50V
C171	1-126-964-11	ELECT 10uF 20%	50V
C172	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V
C173	1-126-964-11	ELECT 10uF 20%	50V
C174	1-126-923-91	ELECT 220uF 20%	10V
C179	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C180	1-126-923-91	ELECT 220uF 20%	10V
C181	1-104-658-91	ELECT 100uF 20%	10V
C182	1-126-960-11	ELECT 1uF 20%	50V
C183	1-104-658-91	ELECT 100uF 20%	10V
C185	1-126-960-11	ELECT 1uF 20%	50V
< CONNECTOR >			
CN101	1-784-780-11	CONNECTOR, FFC 19P	
CN102	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE) 4P	
< IC >			
IC101	8-759-669-03	IC LC75342	
IC102	8-759-656-83	IC NJM4580MD-(TE2)	
< JACK >			
J101	1-817-877-11	JACK, PIN 2P (MD (VIDEO))	
< TRANSISTOR >			
Q101	8-729-107-43	TRANSISTOR 2SC3624-L18	
Q121	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q122	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q151	8-729-107-43	TRANSISTOR 2SC3624-L18	
Q180	8-729-107-43	TRANSISTOR 2SC3624-L18	
Q181	8-729-107-43	TRANSISTOR 2SC3624-L18	
Q182	8-729-107-43	TRANSISTOR 2SC3624-L18	
Q183	8-729-107-43	TRANSISTOR 2SC3624-L18	
Q184	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q185	8-729-027-43	TRANSISTOR DTC114EKA-T146	
< RESISTOR >			
R101	1-216-833-11	METAL CHIP 10K 5%	1/10W
R102	1-216-832-11	METAL CHIP 8.2K 5%	1/10W
R103	1-216-828-11	METAL CHIP 3.9K 5%	1/10W
R104	1-216-821-11	METAL CHIP 1K 5%	1/10W
R105	1-216-833-11	METAL CHIP 10K 5%	1/10W



# HCD-CPX11

## PRE AMP

## S-MASTER AMP

Ref. No.	Part No.	Description	Remark
R106	1-216-833-11	METAL CHIP 10K 5%	1/10W
R121	1-216-821-11	METAL CHIP 1K 5%	1/10W
R122	1-216-845-11	METAL CHIP 100K 5%	1/10W
R123	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R124	1-216-837-11	METAL CHIP 22K 5%	1/10W
R125	1-216-805-11	METAL CHIP 47 5%	1/10W
R126	1-216-845-11	METAL CHIP 100K 5%	1/10W
R131	1-216-809-11	METAL CHIP 100 5%	1/10W
R132	1-216-809-11	METAL CHIP 100 5%	1/10W
R133	1-216-809-11	METAL CHIP 100 5%	1/10W
R151	1-216-833-11	METAL CHIP 10K 5%	1/10W
R152	1-216-832-11	METAL CHIP 8.2K 5%	1/10W
R153	1-216-828-11	METAL CHIP 3.9K 5%	1/10W
R154	1-216-821-11	METAL CHIP 1K 5%	1/10W
R155	1-216-833-11	METAL CHIP 10K 5%	1/10W
R156	1-216-833-11	METAL CHIP 10K 5%	1/10W
R171	1-216-821-11	METAL CHIP 1K 5%	1/10W
R172	1-216-845-11	METAL CHIP 100K 5%	1/10W
R173	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R174	1-216-837-11	METAL CHIP 22K 5%	1/10W
R175	1-216-805-11	METAL CHIP 47 5%	1/10W
R176	1-216-845-11	METAL CHIP 100K 5%	1/10W
R180	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R181	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R182	1-216-826-11	METAL CHIP 2.7K 5%	1/10W
R183	1-216-833-11	METAL CHIP 10K 5%	1/10W
R184	1-216-821-11	METAL CHIP 1K 5%	1/10W
R185	1-216-821-11	METAL CHIP 1K 5%	1/10W
*****			
A-4750-366-A	S-MASTER AMP BOARD, COMPLETE *****		
7-685-645-79	SCREW +BVTP 3X6 TYPE2 TT (B)  < CAPACITOR >		
C600	1-128-549-11	ELECT 3300uF 20%	35V
C601	1-104-658-91	ELECT 100uF 20%	10V
C602	1-126-964-11	ELECT 10uF 20%	50V
C603	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C604	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C605	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C606	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C607	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C608	1-126-964-11	ELECT 10uF 20%	50V
C609	1-162-971-11	CERAMIC CHIP 0.001uF 10%	50V
C610	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C611	1-126-960-11	ELECT 1uF 20%	50V
C612	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C613	1-216-864-11	SHORT CHIP 0	
C614	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V
C615	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V
C616	1-104-662-91	ELECT 22uF 20%	25V
C617	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C618	1-162-908-11	CERAMIC CHIP 3PF 0.25PF	50V
C619	1-162-908-11	CERAMIC CHIP 3PF 0.25PF	50V
C620	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C621	1-126-960-11	ELECT 1uF 20%	50V
C622	1-164-156-11	CERAMIC CHIP 0.1uF	25V

Ref. No.	Part No.	Description	Remark
C623	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C625	1-126-963-11	ELECT 4.7uF 20%	50V
C628	1-126-963-11	ELECT 4.7uF 20%	50V
C629	1-107-726-91	CERAMIC CHIP 0.01uF 10%	16V
C630	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C631	1-126-963-11	ELECT 4.7uF 20%	50V
C632	1-104-658-91	ELECT 100uF 20%	10V
C633	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C634	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C635	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C636	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C637	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C638	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C639	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C640	1-104-658-91	ELECT 100uF 20%	10V
C648	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C649	1-104-658-91	ELECT 100uF 20%	10V
C650	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C651	1-137-372-11	MYLAR 0.022uF 5%	50V
C652	1-104-658-91	ELECT 100uF 20%	10V
C653	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C654	1-162-974-11	CERAMIC CHIP 0.01uF	50V
C655	1-137-807-31	ELECT 100uF 20%	50V
C656	1-131-704-11	FILM 1uF 5%	50V
C659	1-162-974-11	CERAMIC CHIP 0.01uF	50V
C660	1-162-974-11	CERAMIC CHIP 0.01uF	50V
C661	1-137-372-11	MYLAR 0.022uF 5%	50V
C663	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C666	1-131-704-11	FILM 1uF 5%	50V
C668	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C669	1-162-974-11	CERAMIC CHIP 0.01uF	50V
C670	1-162-974-11	CERAMIC CHIP 0.01uF	50V
C671	1-137-372-11	MYLAR 0.022uF 5%	50V
C672	1-104-658-91	ELECT 100uF 20%	10V
C673	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C674	1-216-864-11	SHORT CHIP 0	
C675	1-137-807-31	ELECT 100uF 20%	50V
C676	1-131-704-11	FILM 1uF 5%	50V
C678	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C679	1-162-974-11	CERAMIC CHIP 0.01uF	50V
C680	1-162-974-11	CERAMIC CHIP 0.01uF	50V
C681	1-137-372-11	MYLAR 0.022uF 5%	50V
C682	1-104-658-91	ELECT 100uF 20%	10V
C683	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C686	1-131-704-11	FILM 1uF 5%	50V
C689	1-162-974-11	CERAMIC CHIP 0.01uF	50V
C690	1-162-974-11	CERAMIC CHIP 0.01uF	50V
C692	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C693	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C694	1-164-346-11	CERAMIC CHIP 1uF	16V
C697	1-216-864-11	SHORT CHIP 0	
C698	1-162-974-11	CERAMIC CHIP 0.01uF	50V
C699	1-162-974-11	CERAMIC CHIP 0.01uF	50V
< CONNECTOR >			
* CN600	1-564-508-11	PLUG, CONNECTOR 5P	
CN601	1-568-838-11	CONNECTOR, FFC 21P	



<b>S-MASTER AMP</b>	<b>SP</b>
---------------------	-----------

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< DIODE >		L670	1-424-777-11	INDUCTOR 10uH	
D611	8-719-988-61	DIODE 1SS355TE-17				< TRANSISTOR >	
D621	8-719-988-61	DIODE 1SS355TE-17		Q691	8-729-602-36	TRANSISTOR 2SA1602-F	
D650	6-500-131-01	DIODE LI116		Q692	8-729-602-36	TRANSISTOR 2SA1602-F	
D651	6-500-248-01	DIODE SFPL-62V		Q693	8-729-602-36	TRANSISTOR 2SA1602-F	
D652	6-500-060-01	DIODE P6SMB36AT3		Q694	8-729-602-36	TRANSISTOR 2SA1602-F	
D660	6-500-131-01	DIODE LI116		Q696	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D661	6-500-248-01	DIODE SFPL-62V				< RESISTOR >	
D662	6-500-060-01	DIODE P6SMB36AT3		R601	1-216-809-11	METAL CHIP 100 5%	1/10W
D670	6-500-131-01	DIODE LI116		R602	1-216-809-11	METAL CHIP 100 5%	1/10W
D671	6-500-248-01	DIODE SFPL-62V		R603	1-216-809-11	METAL CHIP 100 5%	1/10W
D672	6-500-060-01	DIODE P6SMB36AT3		R604	1-216-809-11	METAL CHIP 100 5%	1/10W
D680	6-500-131-01	DIODE LI116		R605	1-216-821-11	METAL CHIP 1K 5%	1/10W
D681	6-500-248-01	DIODE SFPL-62V		R606	1-216-809-11	METAL CHIP 100 5%	1/10W
D682	6-500-060-01	DIODE P6SMB36AT3		R607	1-216-809-11	METAL CHIP 100 5%	1/10W
		< EARTH TERMINAL >		R608	1-216-864-11	SHORT CHIP 0	
EP601	1-537-771-21	TERMINAL BOARD, GROUND		R609	1-216-809-11	METAL CHIP 100 5%	1/10W
EP602	1-537-771-21	TERMINAL BOARD, GROUND		R610	1-216-809-11	METAL CHIP 100 5%	1/10W
EP603	1-537-771-21	TERMINAL BOARD, GROUND		R612	1-216-809-11	METAL CHIP 100 5%	1/10W
		< FERRITE BEAD >		R613	1-216-809-11	METAL CHIP 100 5%	1/10W
FB601	1-216-864-11	SHORT CHIP 0		R614	1-216-857-11	METAL CHIP 1M 5%	1/10W
FB604	1-216-864-11	SHORT CHIP 0		R615	1-216-817-11	METAL CHIP 470 5%	1/10W
FB605	1-469-324-21	FERRITE, EMI (SMD) (2012)		R618	1-216-864-11	SHORT CHIP 0	
FB606	1-216-864-11	SHORT CHIP 0		R619	1-216-857-11	METAL CHIP 1M 5%	1/10W
FB607	1-216-864-11	SHORT CHIP 0		R620	1-218-484-11	METAL CHIP 750 5%	1/10W
FB610	1-469-324-21	FERRITE, EMI (SMD) (2012)		R623	1-216-845-11	METAL CHIP 100K 5%	1/10W
FB620	1-469-324-21	FERRITE, EMI (SMD) (2012)		R640	1-216-809-11	METAL CHIP 100 5%	1/10W
FB640	1-216-864-11	SHORT CHIP 0		R641	1-216-809-11	METAL CHIP 100 5%	1/10W
FB641	1-216-864-11	SHORT CHIP 0		R642	1-216-809-11	METAL CHIP 100 5%	1/10W
FB642	1-216-864-11	SHORT CHIP 0		R651	1-216-296-11	SHORT CHIP 0	
FB650	1-469-324-21	FERRITE, EMI (SMD) (2012)		R652	1-216-809-11	METAL CHIP 100 5%	1/10W
FB652	1-414-551-11	FERRITE, EMI (SMD) (2012)		R653	1-216-809-11	METAL CHIP 100 5%	1/10W
FB653	1-414-551-11	FERRITE, EMI (SMD) (2012)		R661	1-216-296-11	SHORT CHIP 0	
FB660	1-216-296-11	SHORT CHIP 0		R662	1-216-809-11	METAL CHIP 100 5%	1/10W
FB662	1-414-551-11	FERRITE, EMI (SMD) (2012)		R663	1-216-809-11	METAL CHIP 100 5%	1/10W
FB663	1-414-551-11	FERRITE, EMI (SMD) (2012)		R671	1-216-296-11	SHORT CHIP 0	
FB670	1-216-296-11	SHORT CHIP 0		R681	1-216-296-11	SHORT CHIP 0	
FB680	1-469-324-21	FERRITE, EMI (SMD) (2012)		R691	1-216-845-11	METAL CHIP 100K 5%	1/10W
		< IC >		R692	1-216-845-11	METAL CHIP 100K 5%	1/10W
IC600	6-703-287-01	IC CXD9743N		R693	1-216-845-11	METAL CHIP 100K 5%	1/10W
IC603	6-701-834-01	IC PCM1802DBR		R694	1-216-845-11	METAL CHIP 100K 5%	1/10W
IC604	8-759-387-77	IC TC7WU04F (TE12R)		R695	1-216-845-11	METAL CHIP 100K 5%	1/10W
IC610	6-701-189-01	IC MC74VHC1GU04DFT1		R696	1-216-845-11	METAL CHIP 100K 5%	1/10W
IC618	6-700-263-01	IC NJM2870F18 (TE2)		R697	1-216-845-11	METAL CHIP 100K 5%	1/10W
IC650	6-703-288-01	IC CXD9750L				< VIBRATOR >	
IC680	6-703-288-01	IC CXD9750L		X601	1-795-843-11	VIBRATOR, CRYSTAL (12.288MHz)	
		< COIL >		X602	1-795-660-21	QUARTZ CRYSTAL UNIT (49.152MHz)	
L601	1-469-525-91	INDUCTOR 10uH		*****			
L602	1-469-525-91	INDUCTOR 10uH		SP BOARD			
L603	1-469-525-91	INDUCTOR 10uH		*****			
L604	1-412-939-11	INDUCTOR 1uH		< CAPACITOR >			
L621	1-469-525-91	INDUCTOR 10uH		C852	1-164-362-11	CERAMIC CHIP 470PF 5%	50V
L650	1-424-777-11	INDUCTOR 10uH		C862	1-164-362-11	CERAMIC CHIP 470PF 5%	50V

# HCD-CPX11

<b>SP</b>	<b>SUB PANEL</b>	<b>SUB POWER</b>	<b>TC</b>
-----------	------------------	------------------	-----------

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark
C872	1-164-362-11	CERAMIC CHIP	470PF	5%	50V		< TRANSISTOR >		
C882	1-164-362-11	CERAMIC CHIP	470PF	5%	50V				
		< CONNECTOR >							
CN850	1-564-505-21	PLUG, CONNECTOR 2P					< RESISTOR >		
CN870	1-564-505-11	PLUG, CONNECTOR 2P							
		< JACK >							
J860	1-537-114-21	TERMINAL BOARD (SPEAKER)							
		< COIL >							
L890	1-410-121-11	INDUCTOR	1.5mH						
*****									
		SUB PANEL BOARD							
		*****							
		< DIODE >							
D870	8-719-046-36	DIODE SEL5921A-TP15 (CD ►►)							
		< TRANSISTOR >							
Q870	8-729-027-43	TRANSISTOR	DTC114EKA-T146						
		< RESISTOR >							
R870	1-216-825-11	METAL CHIP	2.2K	5%	1/10W				
R871	1-216-829-11	METAL CHIP	4.7K	5%	1/10W				
R874	1-216-817-11	METAL CHIP	470	5%	1/10W				
R875	1-216-817-11	METAL CHIP	470	5%	1/10W				
R876	1-216-809-11	METAL CHIP	100	5%	1/10W				
		< SWITCH >							
S816	1-762-875-21	SWITCH, KEYBOARD (CD ►►)							
S817	1-762-875-21	SWITCH, KEYBOARD ((CD) ►)							
*****									
		SUB POWER BOARD							
		*****							
		< CAPACITOR >							
△ C991	1-113-925-11	CERAMIC	0.01uF	20%	250V				
△ C992	1-113-925-11	CERAMIC	0.01uF	20%	250V				
C993	1-126-768-11	ELECT	2200uF	20%	16V				
C994	1-104-658-91	ELECT	100uF	20%	10V				
		< CONNECTOR >							
CN990	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P							
		< DIODE >							
D990	8-719-988-61	DIODE 1SS355TE-17							
D991	8-719-988-61	DIODE 1SS355TE-17							
D992	6-500-522-31	DIODE 10EDB40-TB5							
D993	6-500-522-31	DIODE 10EDB40-TB5							
D994	6-500-522-31	DIODE 10EDB40-TB5							
D995	6-500-522-31	DIODE 10EDB40-TB5							
		< IC >							
IC991	6-703-627-01	IC NJU7201L40 (T3)							

Q990	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16						
Q991	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16						
		< RESISTOR >							
R991	1-216-829-11	METAL CHIP	4.7K	5%	1/10W				
R992	1-216-845-11	METAL CHIP	100K	5%	1/10W				
R993	1-216-829-11	METAL CHIP	4.7K	5%	1/10W				
R994	1-216-845-11	METAL CHIP	100K	5%	1/10W				
		< RELAY >							
△ RY990	1-755-467-11	RELAY (POWER)							
△ RY991	1-755-467-11	RELAY (POWER)							
		< TRANSFORMER >							
△ T991	1-437-676-11	TRANSFORMER, POWER (AEP, UK)							
△ T991	1-437-677-11	TRANSFORMER, POWER (KR, AUS)							
*****									
	A-4750-369-A	TC BOARD, COMPLETE							
		*****							
		< CAPACITOR >							
C601	1-126-947-11	ELECT	47uF	20%	35V				
C602	1-130-483-00	MYLAR	0.01uF	5%	50V				
C604	1-130-495-00	MYLAR	0.1uF	5%	50V				
C605	1-126-964-11	ELECT	10uF	20%	50V				
C606	1-126-960-11	ELECT	1uF	20%	50V				
C607	1-162-962-11	CERAMIC CHIP	470PF	10%	50V				
C608	1-126-961-11	ELECT	2.2uF	20%	50V				
C610	1-162-961-11	CERAMIC CHIP	330PF	10%	50V				
C611	1-162-928-11	CERAMIC CHIP	120PF	5%	50V				
C612	1-162-946-11	CERAMIC CHIP	27PF	5%	50V				
C613	1-164-392-11	CERAMIC CHIP	390PF	5%	50V				
C614	1-130-483-00	MYLAR	0.01uF	5%	50V				
C630	1-126-933-11	ELECT	100uF	20%	16V				
C632	1-126-964-11	ELECT	10uF	20%	50V				
C633	1-126-964-11	ELECT	10uF	20%	50V				
C634	1-126-964-11	ELECT	10uF	20%	50V				
C635	1-126-960-11	ELECT	1uF	20%	50V				
C639	1-126-964-11	ELECT	10uF	20%	50V				
C640	1-126-947-11	ELECT	47uF	20%	35V				
C641	1-126-961-11	ELECT	2.2uF	20%	50V				
C642	1-137-150-11	FILM	0.01uF	5%	100V				
C643	1-130-485-00	MYLAR	0.015uF	5%	50V				
C644	1-130-481-00	MYLAR	0.0068uF	5%	50V				
C645	1-130-481-00	MYLAR	0.0068uF	5%	50V				
C646	1-130-486-00	MYLAR	0.018uF	5%	50V				
C647	1-126-964-11	ELECT	10uF	20%	50V				
C651	1-126-947-11	ELECT	47uF	20%	35V				
C652	1-130-483-00	MYLAR	0.01uF	5%	50V				
C654	1-130-495-00	MYLAR	0.1uF	5%	50V				
C655	1-126-964-11	ELECT	10uF	20%	50V				
C656	1-126-960-11	ELECT	1uF	20%	50V				
C657	1-162-962-11	CERAMIC CHIP	470PF	10%	50V				
C658	1-126-961-11	ELECT	2.2uF	20%	50V				
C660	1-162-961-11	CERAMIC CHIP	330PF	10%	50V				
C661	1-162-928-11	CERAMIC CHIP	120PF	5%	50V				

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

TC

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C662	1-162-946-11	CERAMIC CHIP 27PF 5% 50V		R640	1-216-833-11	METAL CHIP 10K 5% 1/10W	
C663	1-164-392-11	CERAMIC CHIP 390PF 5% 50V		R641	1-218-867-11	METAL CHIP 6.8K 0.5% 1/10W	
C664	1-130-483-00	MYLAR 0.01uF 5% 50V		R642	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
C681	1-162-968-11	CERAMIC CHIP 0.0047uF 10% 50V		△R643	1-219-787-17	FUSIBLE 5.6 5% 1/4W	
< CONNECTOR >				△R644	1-219-787-17	FUSIBLE 5.6 5% 1/4W	
CN602	1-770-516-31	FFC/CONNECTOR, FPC (LIF (NON-ZIF)) 8P		R645	1-216-836-11	METAL CHIP 18K 5% 1/10W	
CN603	1-784-780-11	CONNECTOR, FFC 19P		R646	1-216-836-11	METAL CHIP 18K 5% 1/10W	
< DIODE >				R647	1-216-837-11	METAL CHIP 22K 5% 1/10W	
D681	8-719-988-61	DIODE 1SS355TE-17		R648	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
< IC >				R651	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
IC601	6-702-130-01	IC HA12237F		R652	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
IC602	8-759-508-69	IC BA3126N		R653	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
< SHORT >				R654	1-216-833-11	METAL CHIP 10K 5% 1/10W	
JR602	1-216-296-11	SHORT CHIP 0		R655	1-216-841-11	METAL CHIP 47K 5% 1/10W	
< JUMPER RESISTOR >				R656	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
JW630	1-216-864-11	SHORT CHIP 0		R657	1-216-833-11	METAL CHIP 10K 5% 1/10W	
< COIL >				R658	1-216-833-11	METAL CHIP 10K 5% 1/10W	
L601	1-410-780-11	INDUCTOR 27mH		R659	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
L651	1-410-780-11	INDUCTOR 27mH		R660	1-216-832-11	METAL CHIP 8.2K 5% 1/10W	
< TRANSISTOR >				R661	1-216-837-11	METAL CHIP 22K 5% 1/10W	
Q639	8-729-119-77	TRANSISTOR 2SA1175-FEK		R680	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
Q640	8-729-029-66	TRANSISTOR DTC114ESA		R681	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
Q641	8-729-801-93	TRANSISTOR 2SD1387-3		R682	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
Q642	8-729-142-46	TRANSISTOR 2SC2001-LK		R683	1-216-819-11	METAL CHIP 680 5% 1/10W	
Q643	8-729-142-46	TRANSISTOR 2SC2001-LK		R684	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
Q680	8-729-029-66	TRANSISTOR DTC114ESA		R685	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
Q681	8-729-029-40	TRANSISTOR DTA124ESA		R686	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
Q691	8-729-027-43	TRANSISTOR DTC114EKA-T146		R687	1-216-841-11	METAL CHIP 47K 5% 1/10W	
Q692	8-729-027-43	TRANSISTOR DTC114EKA-T146		R688	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
Q693	8-729-140-04	TRANSISTOR 2SB1116A-L		R689	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
Q694	8-729-116-57	TRANSISTOR 2SB1068-K		R690	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
< RESISTOR >				R691	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R601	1-216-829-11	METAL CHIP 4.7K 5% 1/10W		R692	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R602	1-216-829-11	METAL CHIP 4.7K 5% 1/10W		R693	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R603	1-216-827-11	METAL CHIP 3.3K 5% 1/10W		R694	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R604	1-216-833-11	METAL CHIP 10K 5% 1/10W		R695	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R605	1-216-841-11	METAL CHIP 47K 5% 1/10W		< VARIABLE RESISTOR >			
R606	1-216-825-11	METAL CHIP 2.2K 5% 1/10W		RV603	1-241-768-11	RES, ADJ CERMET 220K	
R607	1-216-833-11	METAL CHIP 10K 5% 1/10W		RV653	1-241-768-11	RES, ADJ CERMET 220K	
R608	1-216-833-11	METAL CHIP 10K 5% 1/10W		< TRANSFORMER >			
R609	1-216-825-11	METAL CHIP 2.2K 5% 1/10W		T601	1-423-980-11	TRANSFORMER, BIAS OSCILLATION	
R610	1-216-832-11	METAL CHIP 8.2K 5% 1/10W		*****			
R611	1-216-837-11	METAL CHIP 22K 5% 1/10W		MISCELLANEOUS			
R630	1-216-857-11	METAL CHIP 1M 5% 1/10W		*****			
R631	1-216-837-11	METAL CHIP 22K 5% 1/10W		60	1-824-192-11	WIRE (FLAT TYPE) (8 CORE)	
R632	1-216-821-11	METAL CHIP 1K 5% 1/10W		63	1-796-456-31	DECK, MECHANICAL (CMAL1Z-236A)	
R633	1-216-833-11	METAL CHIP 10K 5% 1/10W		69	1-773-120-11	WIRE (FLAT TYPE) (19 CORE)	
R635	1-216-809-11	METAL CHIP 100 5% 1/10W		71	1-773-110-11	WIRE (FLAT TYPE) (19 CORE)	
				102	1-769-912-11	WIRE (FLAT TYPE) (9 CORE)	
				△151	1-769-079-23	CORD, POWER (KR)	
				△151	1-777-071-83	CORD, POWER (AEP, UK)	
				△151	1-783-203-13	CORD, POWER (AUS)	
				155	1-777-353-11	FLAT CABLE (15 CORE) (AEP, UK)	
				155	1-824-486-11	WIRE (FLAT TYPE) (11 CORE) (KR, AUS)	

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

# HCD-CPX11

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
156	1-693-603-31	TUNER (FM/AM) (AUS)	
156	1-693-604-11	TUNER (FM/AM) (AEP, UK)	
156	1-693-605-11	TUNER (FM/AM) (KR)	
158	1-773-105-11	WIRE (FLAT TYPE) (19 CORE)	
△ 201	1-468-730-11	REGULATOR, SWITCHING	
203	1-500-484-21	CLAMP, SLEEVE FERRITE	
204	1-773-158-11	WIRE (FLAT TYPE) (21 CORE)	
413	1-763-967-11	MOTOR, DC	
462	1-452-925-21	MAGNET ASSY	
△ 556	8-820-244-01	OPTICAL PICK-UP (KSM-215DCP/C2NP)	
557	1-775-241-11	WIRE (FLAT TYPE) (27 CORE)	
559	1-827-992-11	WIRE (FLAT TYPE)(16 CORE)	
M701	X-2021-530-1	MOTOR (PULLEY) ASSY (LOADING)	

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

MEMO

