

# SERVICE MANUAL

**Ver 1.0 2002. 04****AEP Model  
UK Model  
E Model**

This set is the tuner, deck, CD and amplifier section in CHC-TB10.

CD SECTION	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM55C-K6A
	Optical Pick-up Block Type	KSM-213DCP
TAPE DECK SECTION	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	CMAL1Z222A

## SPECIFICATIONS

**Amplifier section****European models**

DIN power output (Rated): 40 + 40 watts  
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference):  
50 + 50 watts  
(6 ohms at 1 kHz, 10% THD)

Music power output (Reference):  
100 + 100 watts  
(6 ohms at 1 kHz, 10% THD)

**Other models**

Measured at AC 120/220/240 V, 50/60 Hz:

DIN power output (Rated): 40 + 40 watts  
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference):  
50 + 50 watts  
(6 ohms at 1 kHz, 10% THD)

Inputs  
MD IN (phono jacks): voltage 450 mV,  
impedance 47 kilohms

Outputs  
PHONES (stereo minijack): accepts headphones of  
8 ohms or more.

SPEAKER: Accepts impedance of 6 to  
16 ohms.

**CD player section**

System Compact disc and digital  
audio system  
Laser Semiconductor laser  
(λ=780 nm)  
Emission duration:  
continuous

Frequency response	2 Hz – 20 kHz (±0.5 dB)	Other models: 531 – 1,602 kHz (with the interval set at 9 kHz)
CD DIGITAL OUT (Square optical connector jack, rear panel)	660 nm	530 – 1,710 kHz (with the interval set at 10 kHz)
Wavelength		AM loop antenna External antenna terminals 450 kHz
<b>Tape deck section</b>	Recording system Frequency response	Antenna Intermediate frequency
	4-track 2-channel stereo 50 – 13,000 Hz (±3 dB), using Sony TYPE I cassettes	
<b>Tuner section</b>	FM stereo, FM/AM superheterodyne tuner	<b>General</b>
		Power requirements European models: 120 V AC, 60 Hz Mexican model: 120 V, 220 V, 230 – 240 V AC, 50/60 Hz Other models: Adjustable with voltage selector
<b>FM tuner section</b>	Tuning range Antenna Antenna terminals Intermediate frequency	Power consumption European models: 100 watts 0.5 watts (at the Power Saving Mode)
	87.5 – 108.0 MHz (50 kHz step) FM lead antenna 75 ohms unbalanced 10.7 MHz	Other models: 100 watts
<b>AM tuner section</b>		Dimensions (w/h/d) incl. projecting parts and controls Amplifier/Tuner/Tape/CD section: Approx. 215 × 285 × 334 mm
	Tuning range European models: 531 – 1,602 kHz (with the interval set at 9 kHz)	Mass Amplifier/Tuner/Tape/CD section: Approx. 6.5 kg
Pan-American models: 531 – 1,710 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)		Design and specifications are subject to change without notice.

## COMPACT HiFi COMPONENT SYSTEM

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## SECTION 1 SERVICING NOTES

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

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

### **NOTES ON LASER DIODE EMISSION CHECK**

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

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT  
LUOKAN 1 LASERLAITE  
KLASS 1 LASERAPPARAT

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



This caution label is located inside the unit.

### **CAUTION**

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

### **Notes on chip component replacement**

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

### **Flexible Circuit Board Repairing**

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

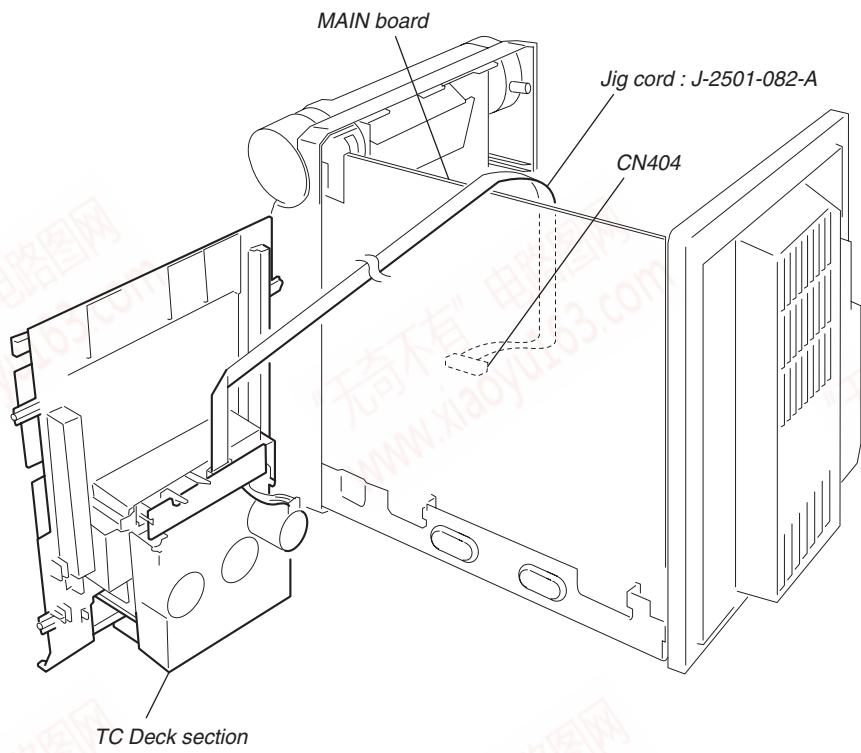
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### **SAFETY-RELATED COMPONENT WARNING!!**

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

Service position of the TAPE cassette mechanism deck

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## SECTION 2 GENERAL

This section is extracted  
from instruction manual.

**A - G**

- BASS **21** (18)
- CD disc tray **18** (8)
- CD SYNC **27** (16)
- CD ►■ **29** (9)
- DIMMER **2** (22)
- DISPLAY **3** (14, 21)
- Display window **5**
- EDIT **25** (17)
- ENTER **13** (8, 10, 11, 17, 20, 27)
- FUNCTION **15** (9, 10, 15, 16, 24)
- GROOVE **22** (18)

**M - Z**

- MD **9** (24)
- MUSIC MENU **23** (19)
- PHONES jack **20**
- PLAY MODE/TUNING MODE **14** (9, 11, 26)
- REC PAUSE/START **28** (16)
- Remote sensor **10**
- REPEAT/FM MODE **16** (9, 13, 26)
- SURROUND **24** (18)
- Tape deck lid **4** (15)
- TAPE ▶■ **12** (15, 16)
- TREBLE **17** (19)
- TUNER/BAND **30** (11, 13)
- TUNER MEMORY/DIRECTION **11** (11, 15)
- VOL **8**

**A - G**

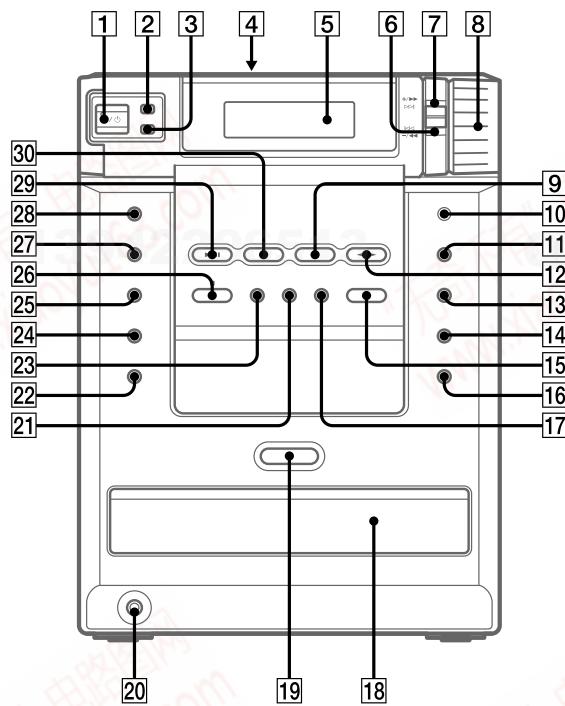
- CD **19** (9)
- CLEAR **23** (10)
- CLOCK/TIMER SELECT **2** (21, 25)
- CLOCK/TIMER SET **7** (8, 17, 20)
- DISPLAY **16** (14, 21)
- EFFECT ON/OFF **14** (19)
- ENTER **7** (8, 10, 11, 17, 20, 27)
- GROOVE **13** (18)

**M - Z**

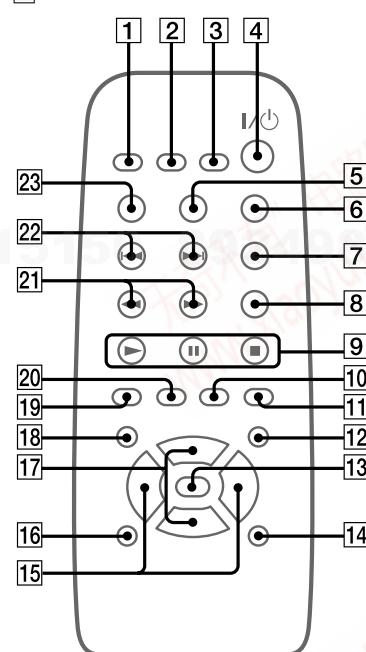
- MD **10** (24)
- MUSIC MENU +/- **15** (19)
- PLAY MODE **5** (9, 26)
- PRESET +/- **22**
- REPEAT **6** (9)
- SLEEP **1** (20)
- SURROUND **12** (18)
- TAPE **11** (15)
- TONE **18** (18)
- TUNER/BAND **20** (11, 13)
- TUNER MEMORY **8** (11)
- TUNING +/- **21** (11)
- VOL +/- **17**

**BUTTON DESCRIPTIONS**

- Ι/Ω **1**
- +/▶▶ ▶■ **7**
- **26**
- ◀◀/-◀◀ **6**
- ▲ **19** (8)

**BUTTON DESCRIPTIONS**

- Ι/Ω **4**
- ▶ **9**
- **9**
- **9**
- ◀◀/▶▶ **21**
- ◀◀/ / **22**



QQ 36076150  
TEL 13942296513 QQ 376315150 892498299

## Setting the clock

- 1 Turn on the system.**
- 2 Press CLOCK/TIMER SET on the remote.**  
“CLOCK” appears.
- 3 Press  $\blacktriangleleft$  or  $\triangleright$  on the remote to set the hour.**
- 4 Press ENTER.**  
The minute indication flashes.
- 5 Press  $\blacktriangleleft$  or  $\triangleright$  on the remote to set the minute.**
- 6 Press ENTER.**  
The clock starts working.

#### Tip

If you make a mistake while setting the clock, press **■**, then start over from step 2.

#### To adjust the clock

- 1 Press CLOCK/TIMER SET on the remote.**
- 2 Press  $\blacktriangleleft$  or  $\triangleright$  on the remote to select “CLOCK”, then press ENTER.**
- 3 Do the same procedures as step 3 to 6 above.**

#### Note

You cannot set the clock in the Power Saving Mode.

## Loading a CD

- 1 Press  $\blacktriangle$ .**  
The disc tray opens.
- 2 Place a CD with the label side up on the disc tray.**

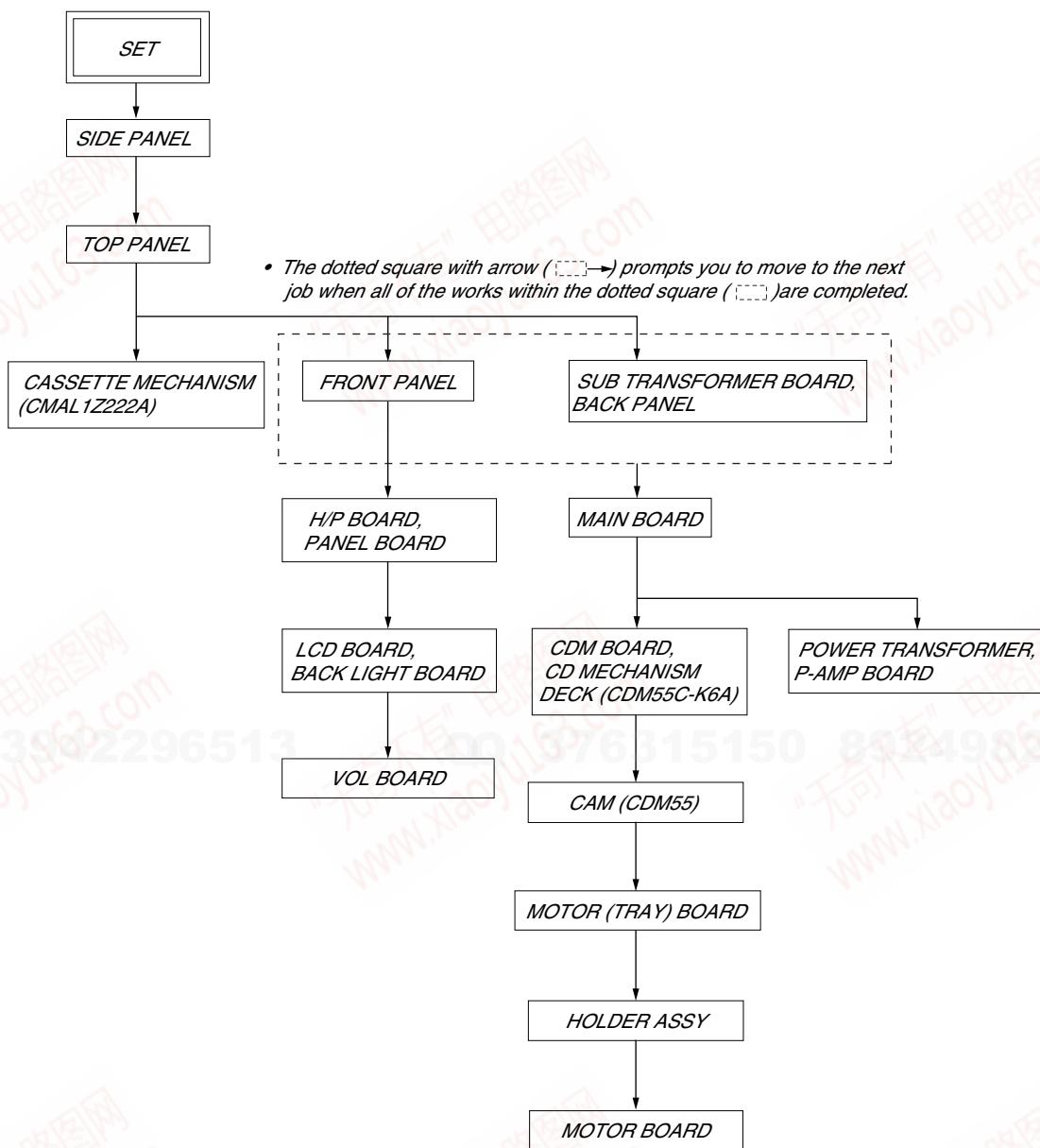
When you play a CD single (8 cm CD), place it on the inner circle of the tray.



- 3 Press  $\blacktriangle$  again to close the disc tray.**

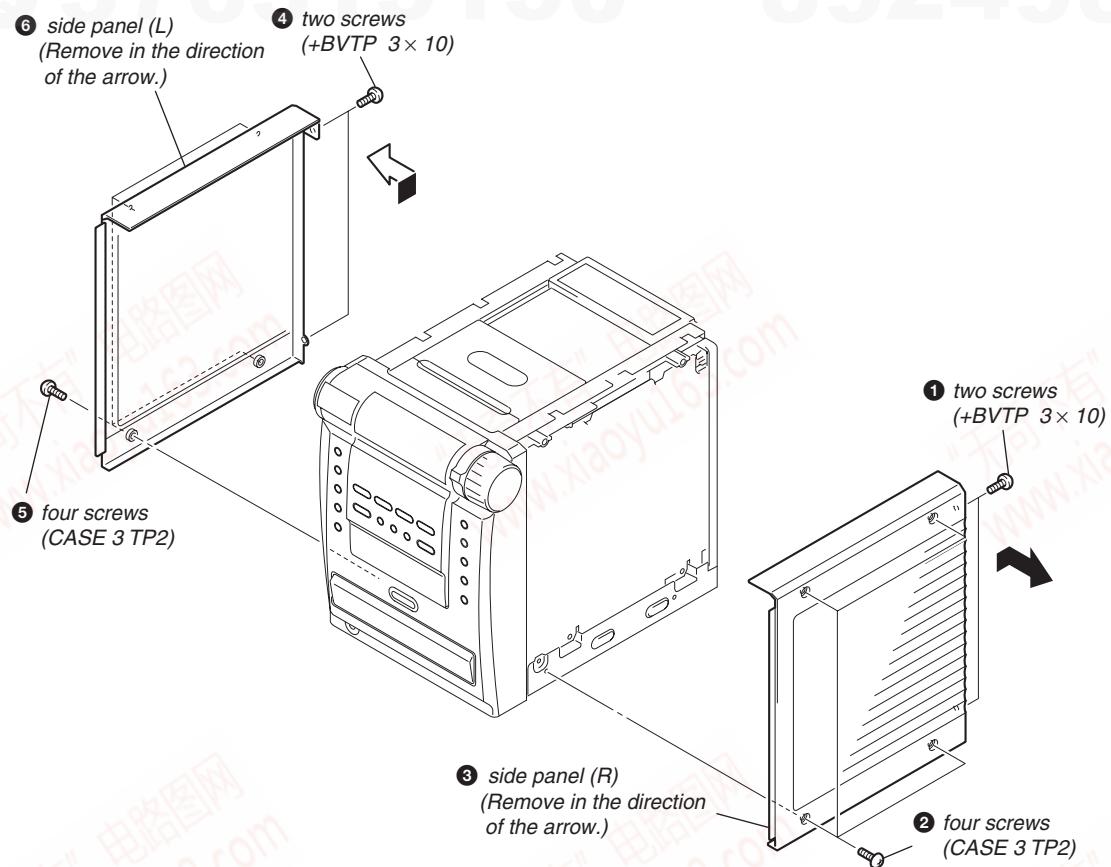
### SECTION 3 DISASSEMBLY

- The equipment can be removed using the following procedure.

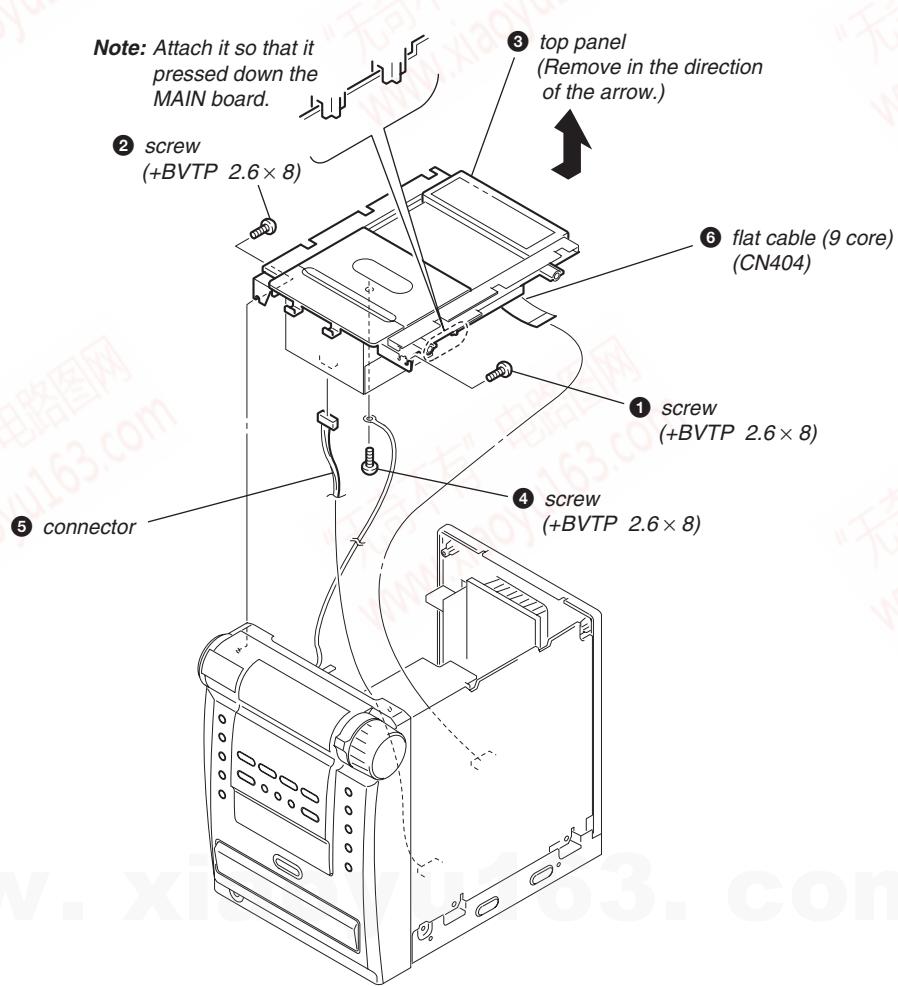


**Note :** Follow the disassembly procedure in the numerical order given.

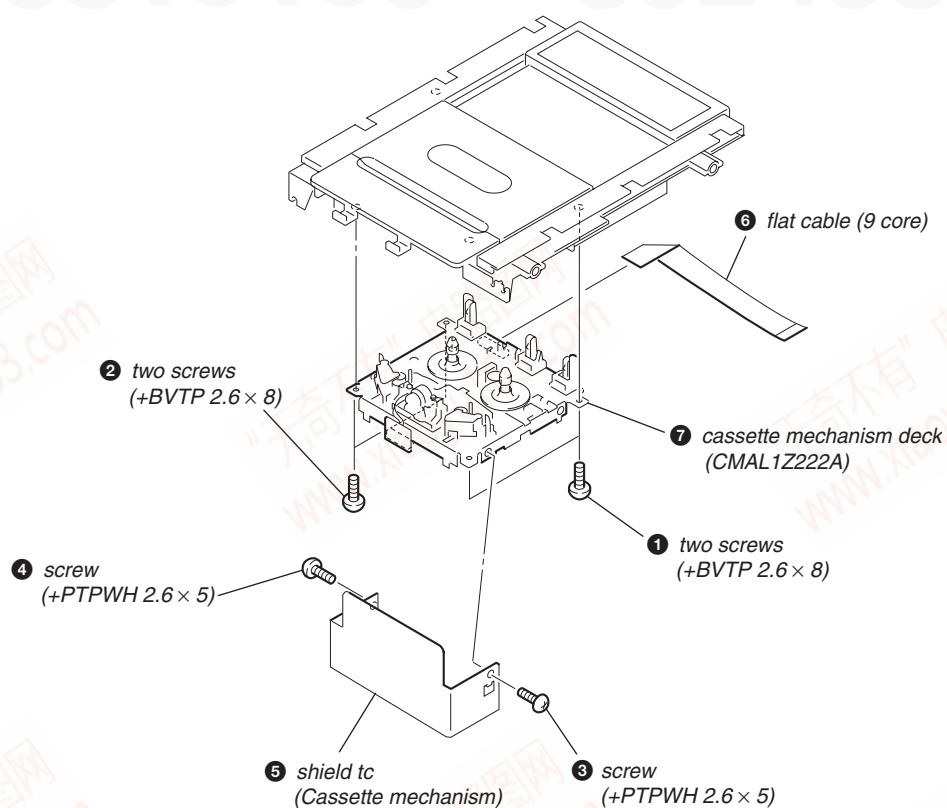
### 3-1. Side Panel



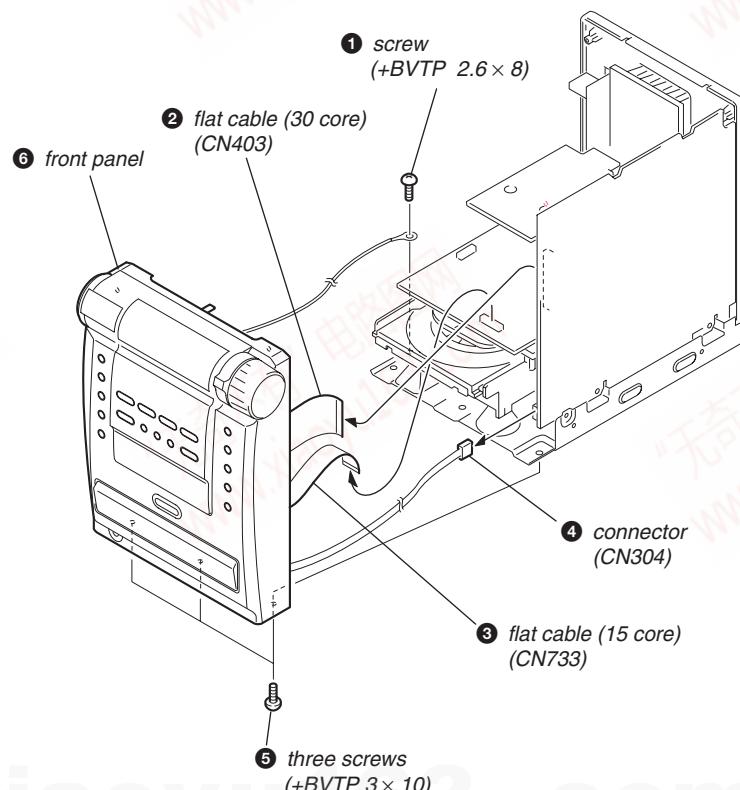
### 3-2. Top Panel



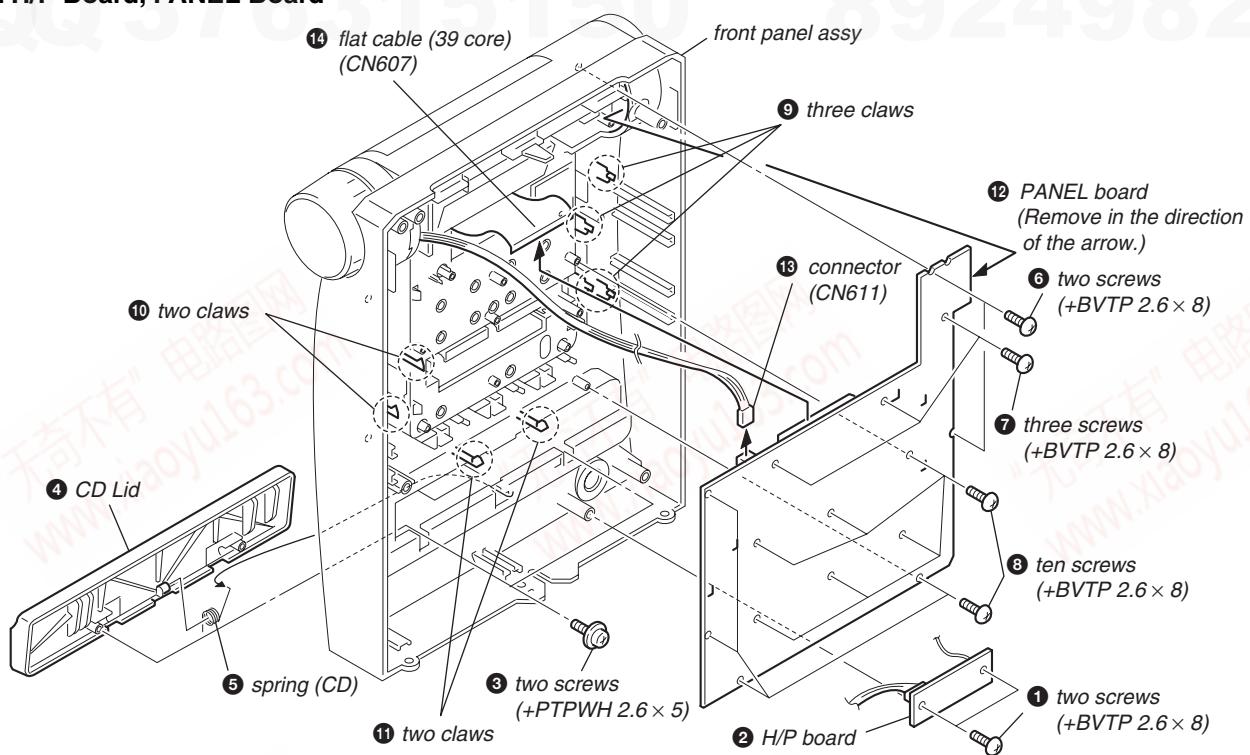
### 3-3. Cassette Mechanism (CMAL1Z222A)



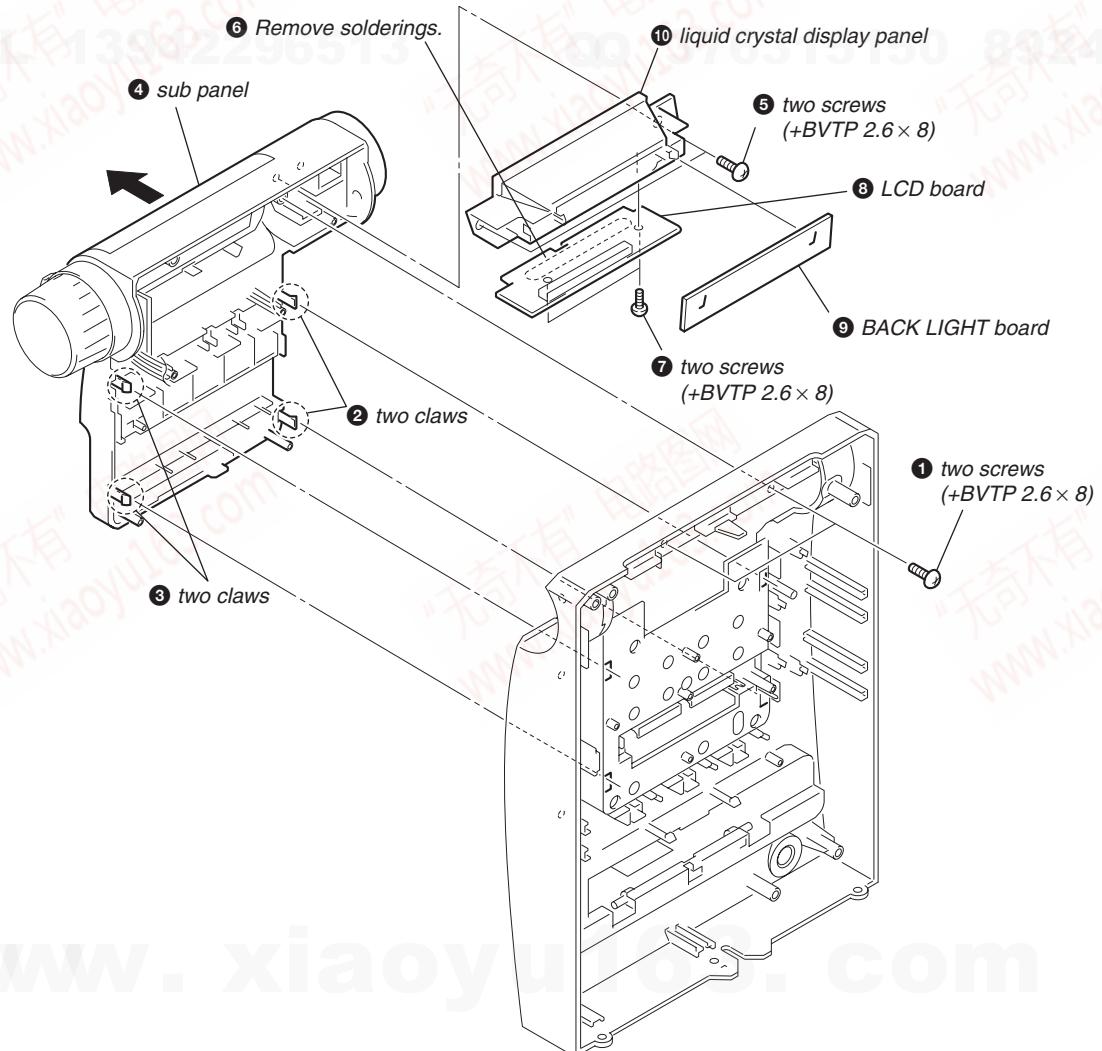
### 3-4. Front Panel



### 3-5. H/P Board, PANEL Board

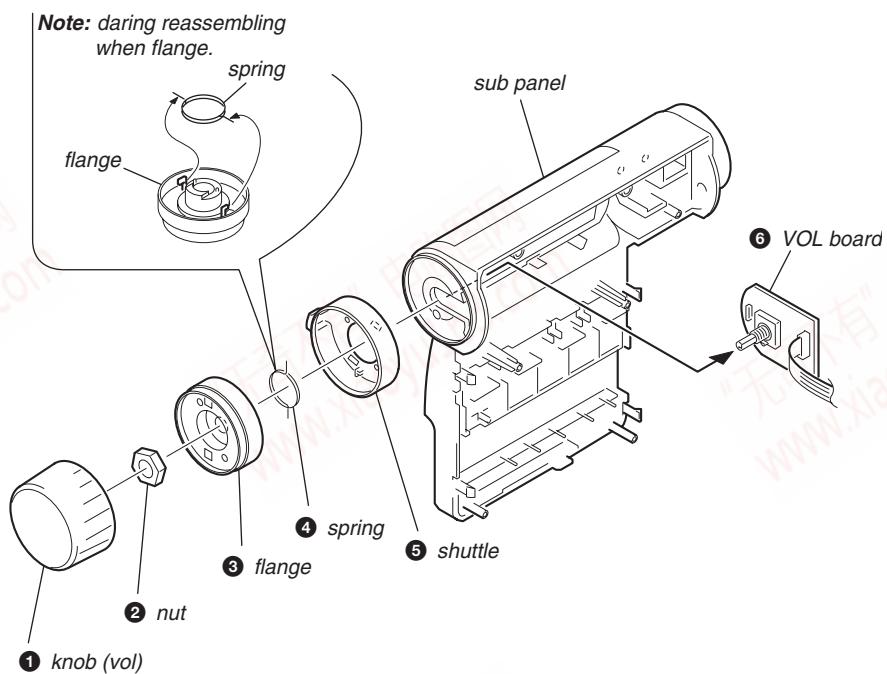


### 3-6. LCD Board, BACK LIGHT Board

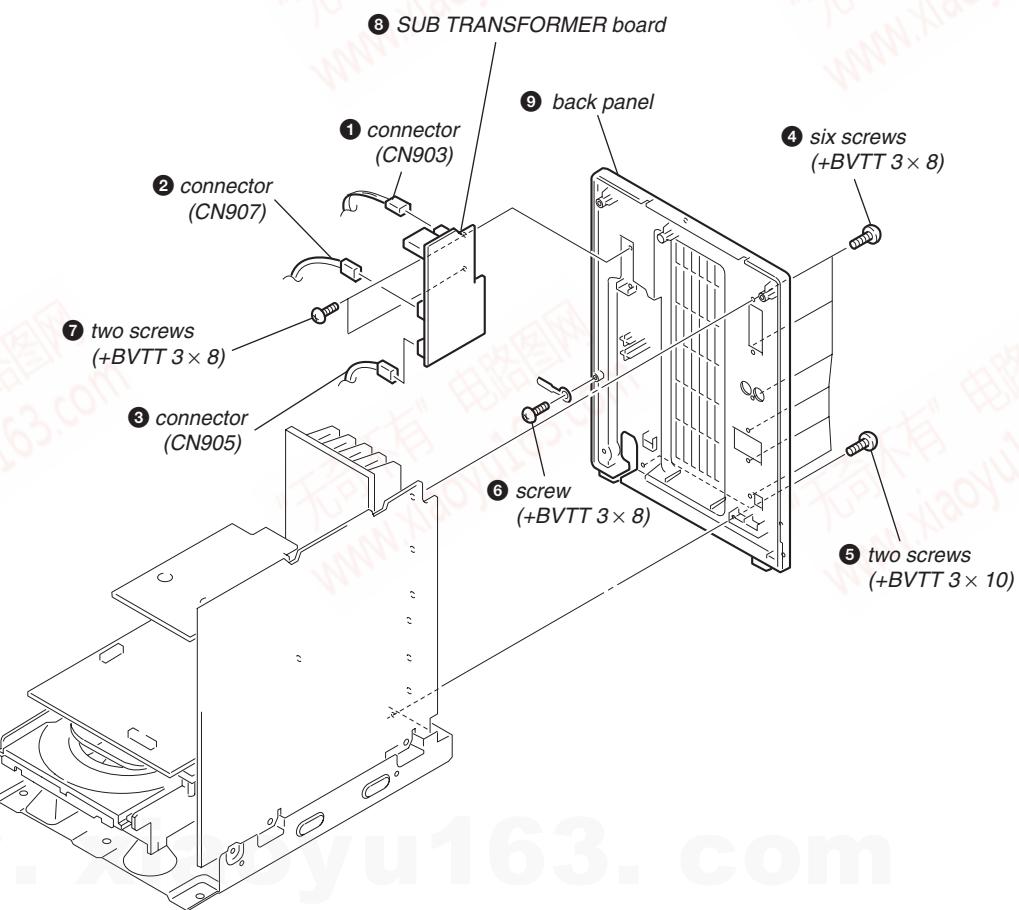


## 3-7. VOL Board

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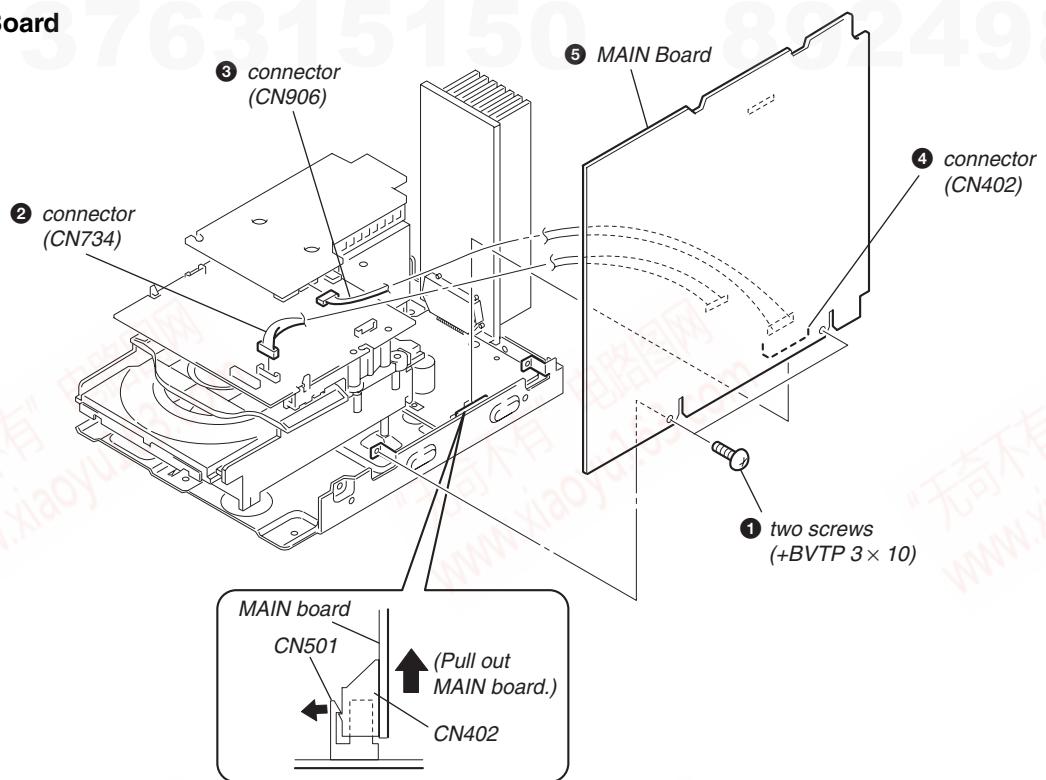


## 3-8. SUB TRANSFORMER Board, Back Panel

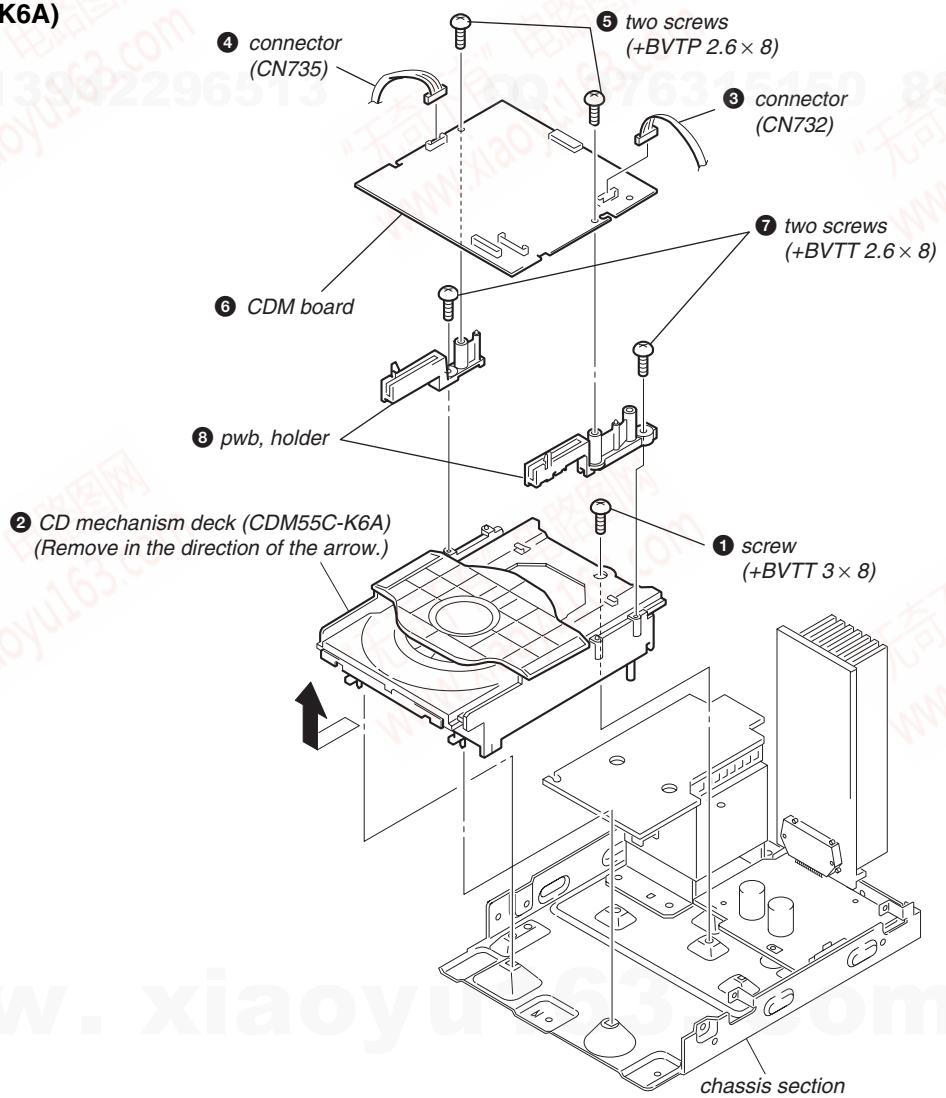


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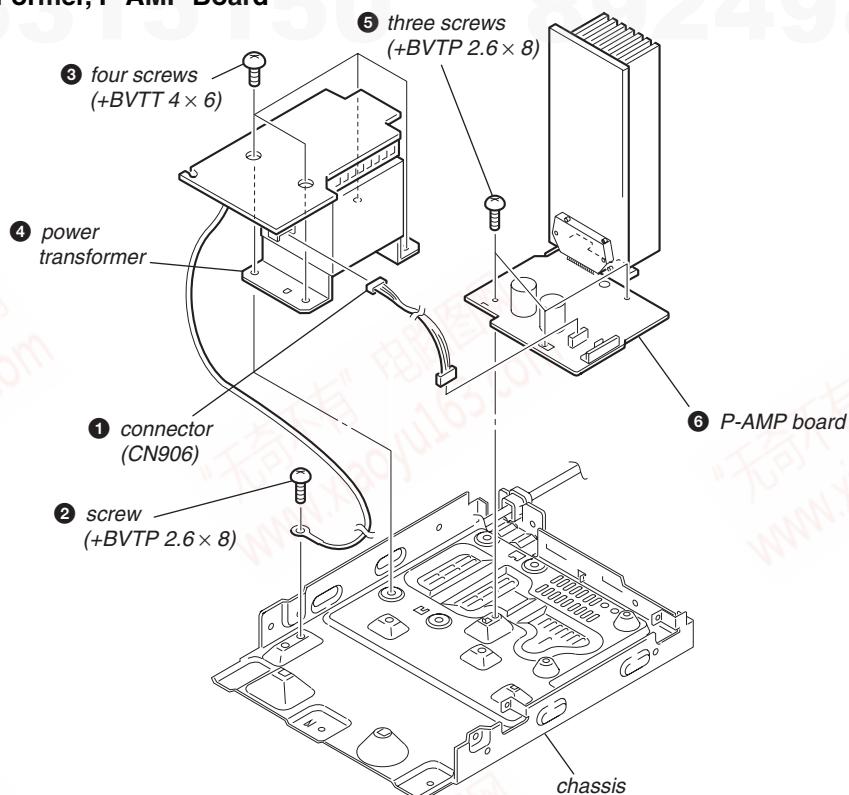
### 3-9. MAIN Board



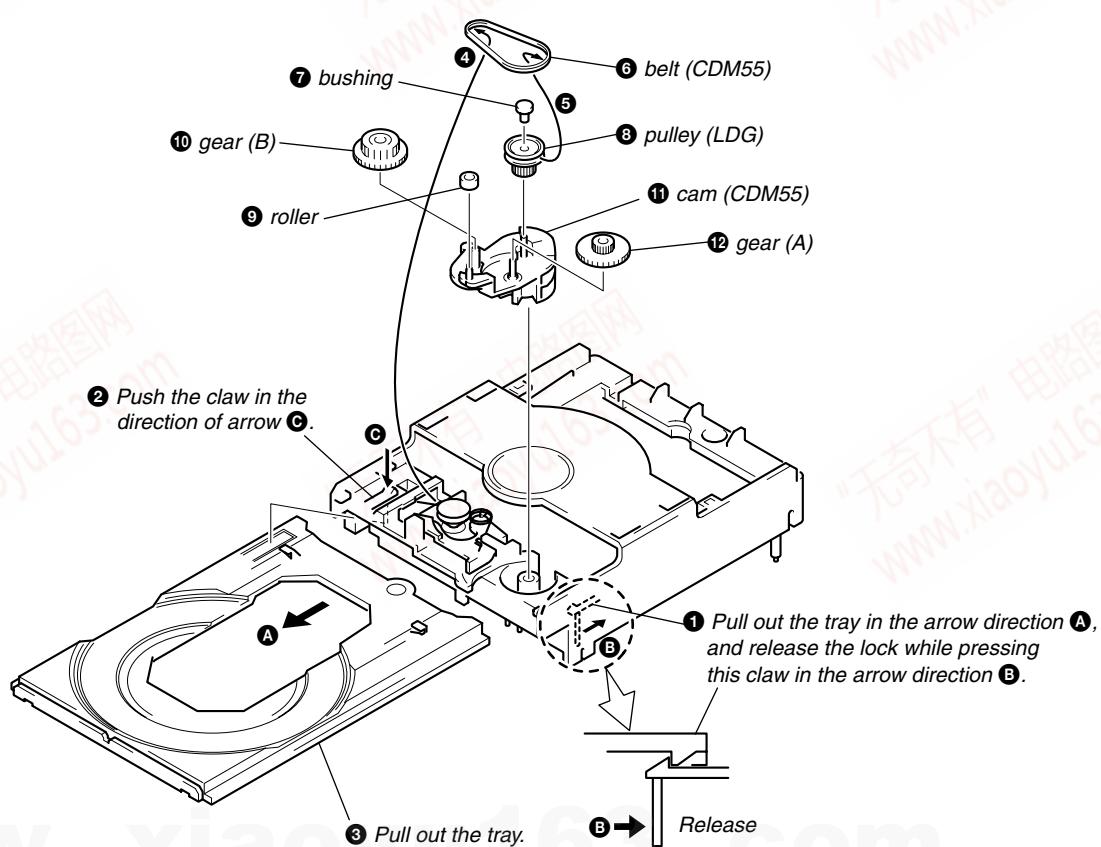
### 3-10. CDM Board, CD Mechanism Deck (CDM55C-K6A)



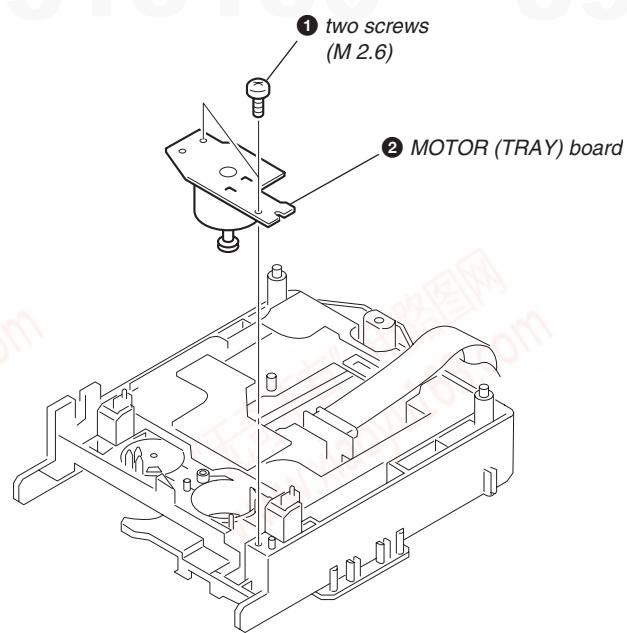
### 3-11. Power Trans Former, P-AMP Board



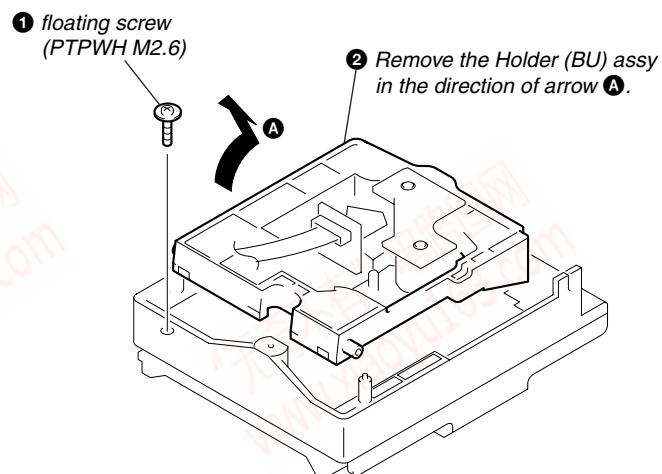
### 3-12. Cam (CDM55)



3-13. MOTOR (TRAY) Board

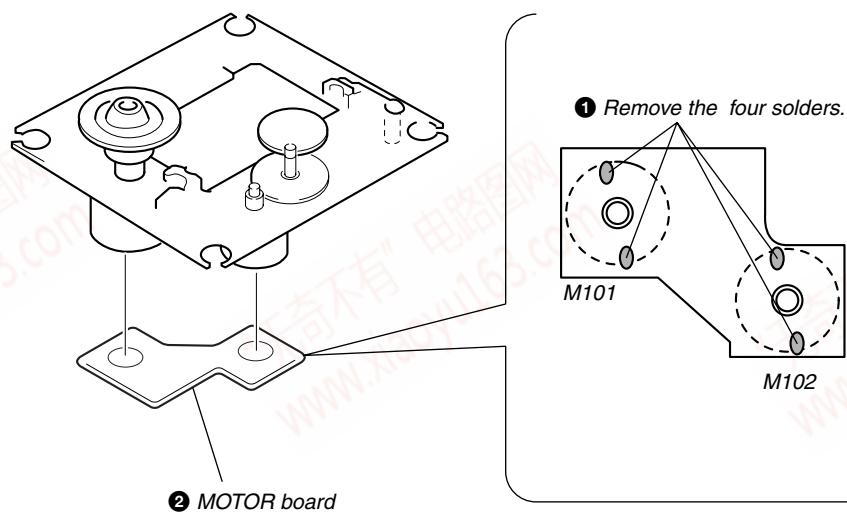


3-14. Holder Assy



3-15. MOTOR Board

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## SECTION 4 TEST MODE

### **[Change-over of AM Tuner Step between 9 kHz and 10 kHz]**

- A step of AM channels can be changed over between 9 kHz and 10 kHz. (EXCEPT AEP, UK model)

#### **Procedure:**

1. Press the **I/O** button to turn the set on.
2. Select the function “TUNER”, and press the **ENTER** button to select the band “AM”.
3. Press the **I/O** button to turn the set off.
4. Press two buttons **ENTER** and **I/O** simultaneously, and the LCD changes to “AM 9 k STEP” or “AM 10 k STEP”, and thus the channel step is changed over.

### **[CD Ship Mode ]**

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

#### **Procedure:**

1. Press the **I/O** button to turn the set on.
2. Press the **▶/II** button and the **I/O** button simultaneously.
3. The “STANDBY” display blinks instantaneously, then “LOCK” is displayed and the CD ship mode is set.

### **[CD Lock Mode ]**

- This mode locks the tray and a CD in the set even after power-off.

#### **Procedure:**

1. Press the **I/O** button to turn the set on.
2. Set a CD in the set.
3. Press two buttons **■** and **▲** simultaneously for five seconds.
4. The message “LOCKED” is displayed and the tray is locked.
5. After the power-off, the tray is still locked.
6. To unlock the tray , press two buttons **■** and **▲** simultaneously for five seconds.
7. The message “UNLOCKED” is displayed and the tray is unlocked.

### **[Cold Reset]**

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

#### **Procedure:**

1. Press three buttons **■** , **ENTER** and **I/O** simultaneously.
2. The LCD displays “C RESET” and the set is reset.

### **[Version and Destination Display Mode]**

- The version or destination is displayed.

#### **Procedure:**

1. Turn the set off.
2. To enter the test mode, press three buttons **DIMMER** , **■** and **ENTER** simultaneously.
3. The model and the destination is displayed.
4. Press the **DISPLAY** button.
5. The version is displayed.
6. Press the **DISPLAY** button again.
7. The date of this version is displayed.
8. To exit from this mode, press three buttons **DIMMER** , **■** and **ENTER** simultaneously.

### **[Panel Test Mode]**

- All LCD segments and LEDs are tested.
- Keyboard check.

#### **Procedure:**

1. Press the **I/O** button to turn the set on.
2. To enter the test mode, press three buttons **DISPLAY** , **■** and **ENTER** simultaneously.
3. All segments and LEDs are turned on.
4. Press the **DISPLAY** and **FUNCTION** buttons simultaneously, and the key number check mode is activated.

5. The message “KEY0 0 0” is displayed.  
Each time a button is pressed, the key code number is displayed.
6. Press the **DISPLAY** and **FUNCTION** buttons simultaneously, and the key count mode is activated.
7. The message “CNT 0 1” is displayed.  
Each time a button is pressed, “CNT 0 1” value increased.  
However, once a button is pressed, it is no longer taken into account.
8. Press the **DISPLAY** and **FUNCTION** buttons simultaneously, and the volume control detect mode is activated.
9. The message “VOL FLAT” is displayed.  
“VOL UP” is displayed if rotating **VOL** knob upward, or “VOL DOWN” is displayed if rotating downward.
10. Press the **DISPLAY** and **FUNCTION** buttons simultaneously, and the headphone detect mode is activated.
11. The message “HP OFF” is displayed when a headphone jack is not inserted.  
“HP ON ” is displayed when a headphone jack is inserted.
12. To exit from the panel test mode after the headphone detect mode, press three buttons **DISPLAY** , **■** and **ENTER** simultaneously.

### **[MC Test Mode]**

- This mode is used to test the function of the equalizer.

#### **Procedure:**

1. Press the **I/O** button to turn the set on.
2. To enter the test mode, press three buttons **REC PAUSE/START** , **■** and **ENTER** simultaneously.
3. Rotate the **VOL** knob upward.  
The volume is set to “VOL MAX”.
4. Rotate the **VOL** knob downward.  
The volume is set to “VOL MIN”.
5. Press the **MUSIC MENU** button.  
The function of the equalizer is set to “GEQ FLAT”.
4. Press the **BASS** button.  
The function of the equalizer is set to “GEQ MIN”.
5. Press the **TREBLE** button.  
The function of the equalizer is set to “GEQ MAX”.
6. To exit from this mode, press the **I/O** button.  
The LCD displayed “C RESET”, then the set is reset and turned off.

### **[CD Service Mode]**

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

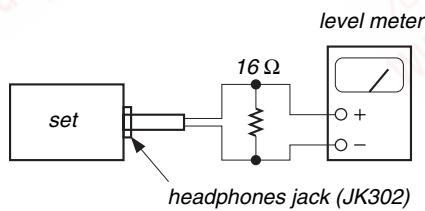
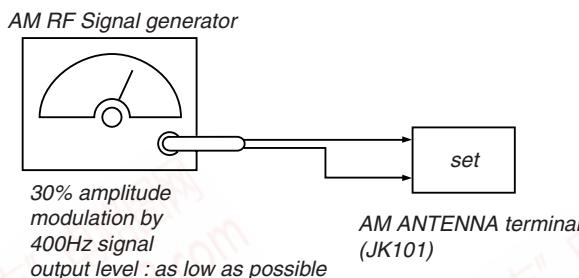
#### **Procedure:**

1. Press the **I/O** button to turn the set on.
2. Select the function “CD”.
3. To enter the test mode, press three buttons **CD SYNC** , **■** and **ENTER** simultaneously.
4. The message “CD S” is displayed and the CD service mode is selected.
5. With the CD in stop status, press the **+/▶** button to move the pickup to outside track and “CD S -F” is displayed, or press the **-/◀** button to inside track and “CD S -R” is displayed.
6. To exit from this mode, press the **I/O** button.  
The pick up moves to most inside track and the power is turned off.

## SECTION 5 ELECTRICAL ADJUSTMENTS

### TUNER SECTION

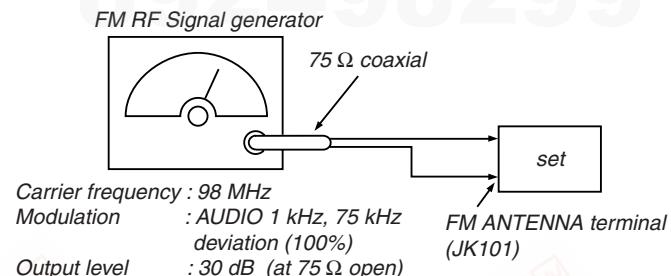
#### AM IF Adjustment


**Procedure:**

1. Set the frequency of the AM RF signal generator to 1000 kHz (at 10 kHz step) or 999 kHz (at 9 kHz step).
2. Tune the set to AM 1000 kHz (at 10 kHz step) or 999 kHz (at 9 kHz step).
3. Adjust IFT101 so that the reading on level meter becomes in maximum.

**Adjustment Location:** MAIN board

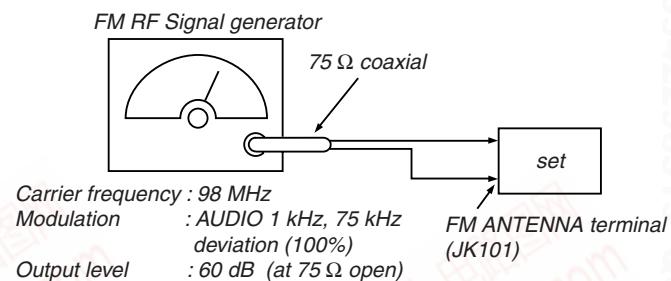
#### FM Tuned Level Adjustment


**Procedure:**

1. Supply a 98 MHz signal at 28 dB from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Adjust SFR101 to the point (moment) when the TUNED indicator will change from going off to going on.

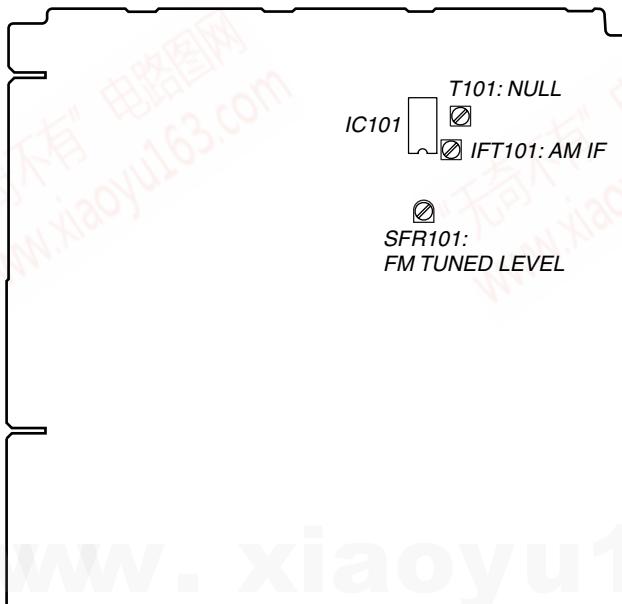
**Adjustment Location:** MAIN board

#### Null Adjustment


**Procedure:**

1. Supply a 98 MHz signal at 60 dB from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Measure voltage between pin 22 and pin 3 of IC 101. Adjust T101 until the voltage becomes 0 V.

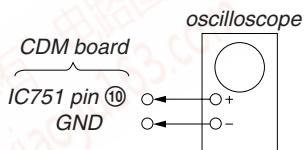
**Adjustment Location:** MAIN board

**[MAIN BOARD] Component side**


**CD SECTION**

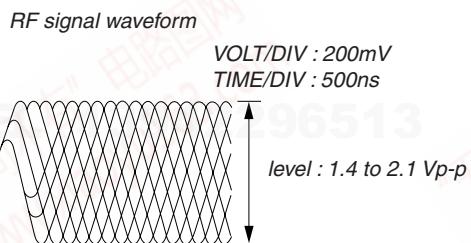
Note :

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

**RF Level Check****Procedure :**

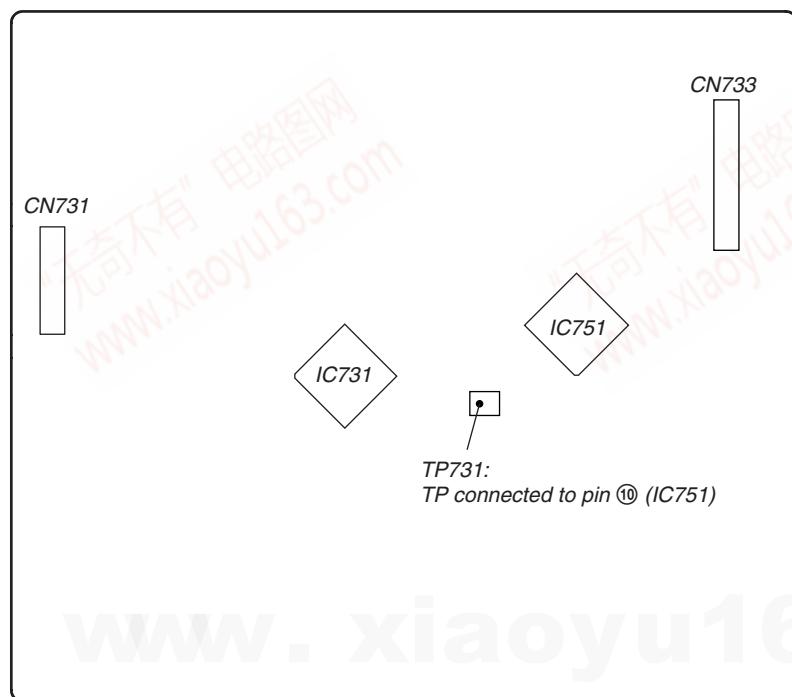
1. Connect oscilloscope to pin ⑩ (IC751).
2. Turn the set on.
3. Load a disc (YEDS-18) and play the number five track.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

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



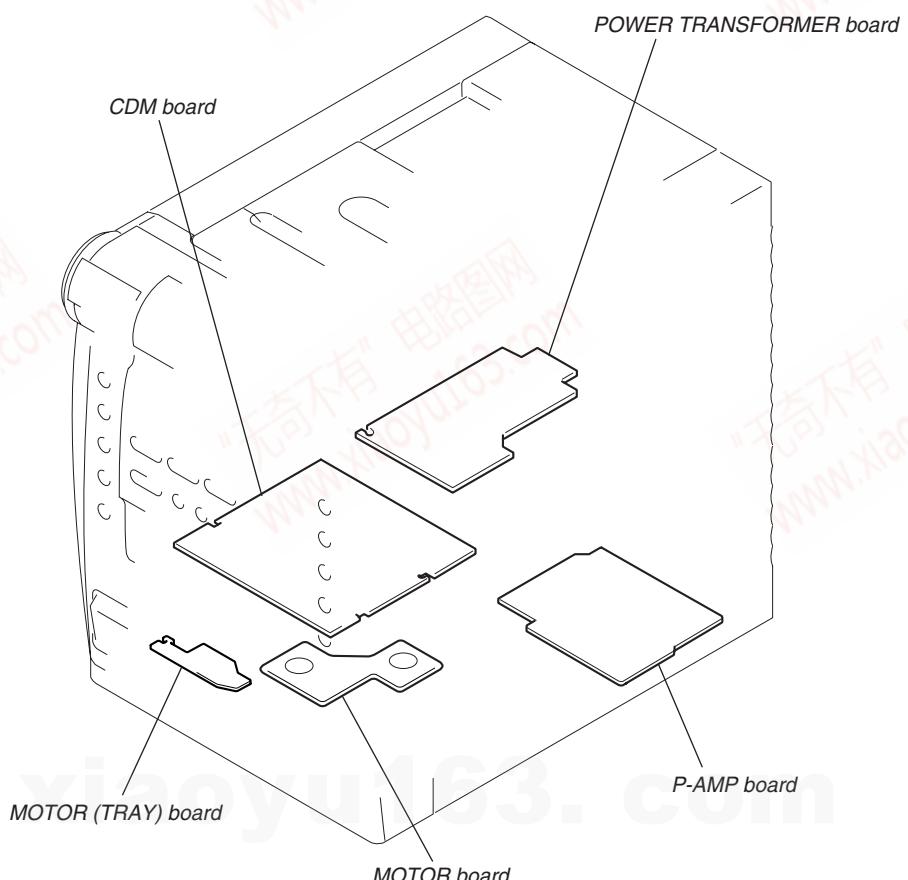
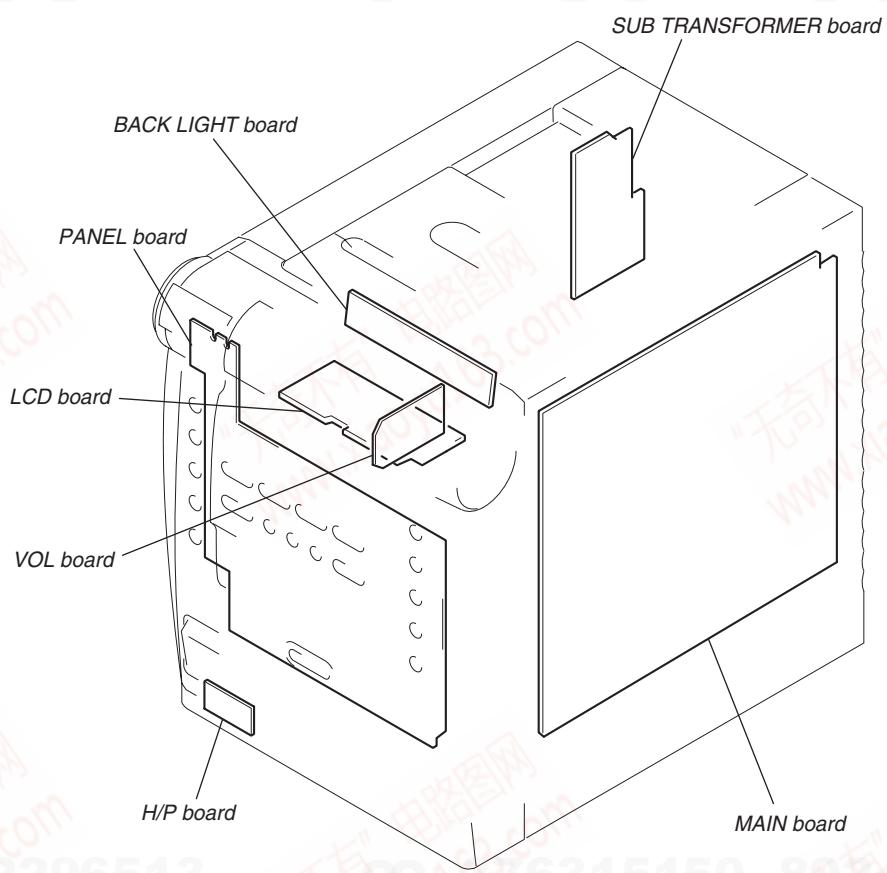
**Adjustment Location:** CDM board

**[CDM BOARD]** (Component Side)



## SECTION 6 DIAGRAMS

### 6-1. Circuit Boards Location



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

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

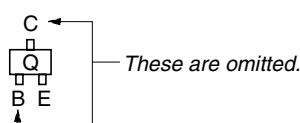
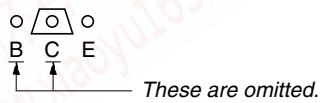
- : B+ Line.
- : B- Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance  $10\text{ M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- \* : Impossible to measure
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.**
  - : FM
  - : PB
  - : REC
  - : CD (Analog)
  - : CD (Digital)
- Abbreviation**
  - MX : Mexican model
  - KR : Korea model
  - TW : Taiwan model.

#### For printed wiring boards.

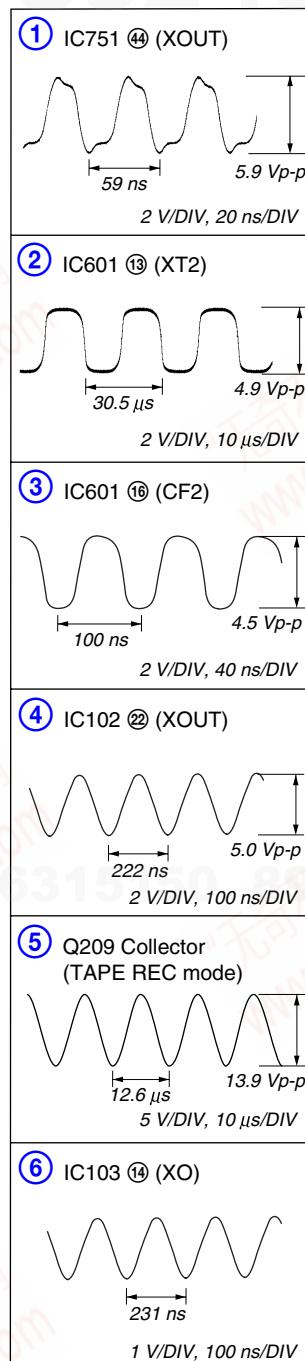
##### Note:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : Through hole.
- : Pattern from the side which enables seeing.

#### Indication of transistor

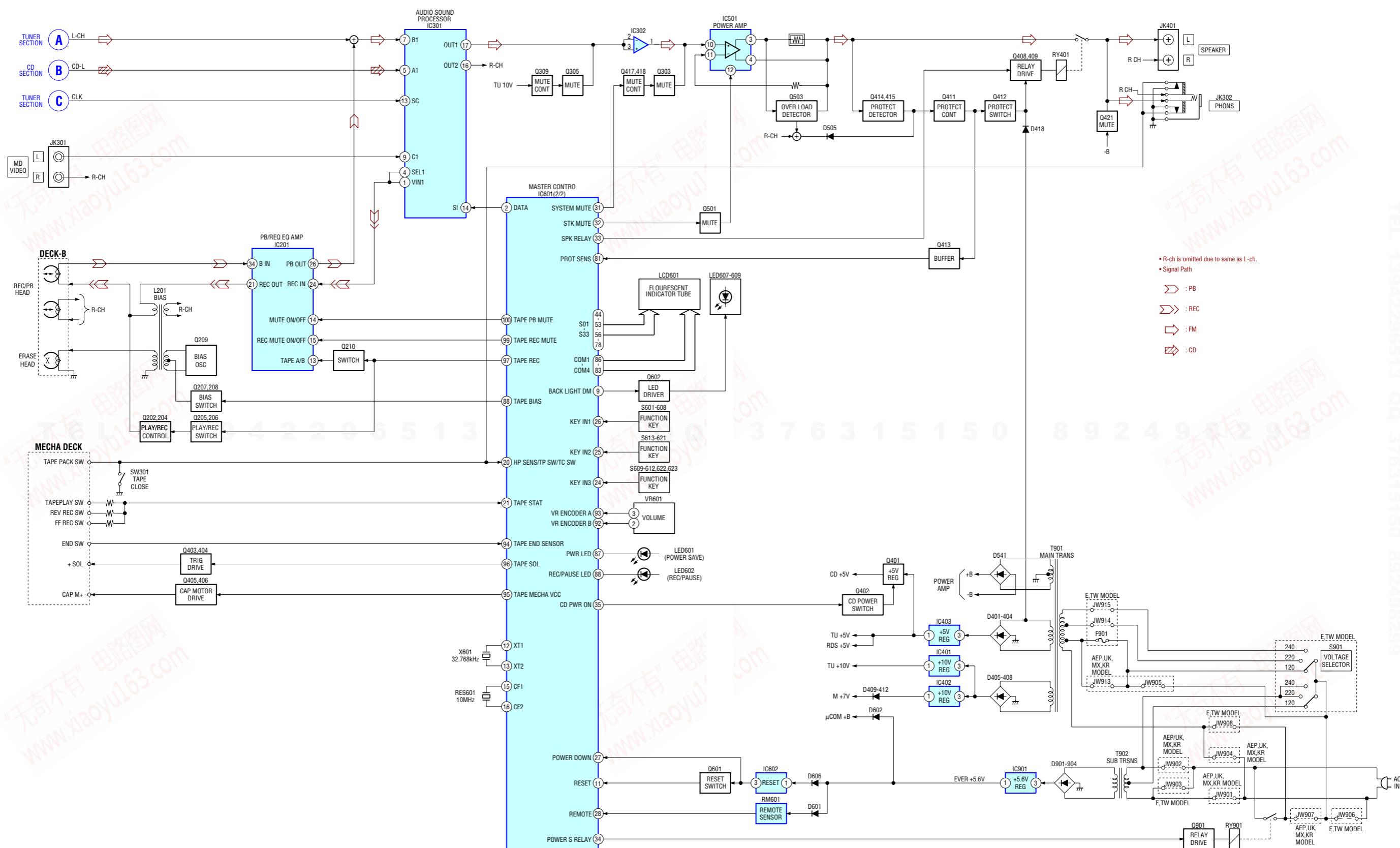


#### • Waveforms



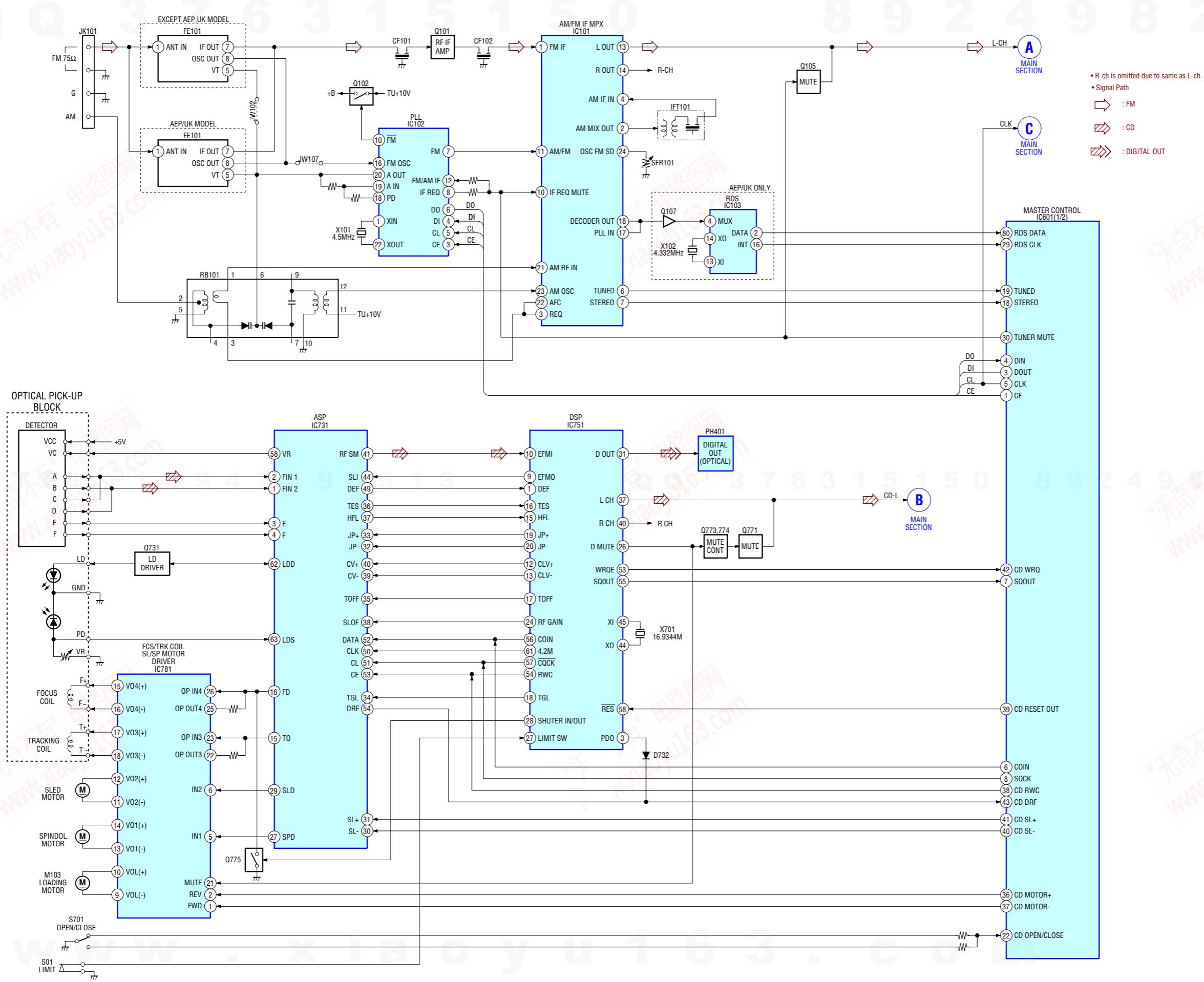
## 6-2. Block Diagrams

## MAIN Section

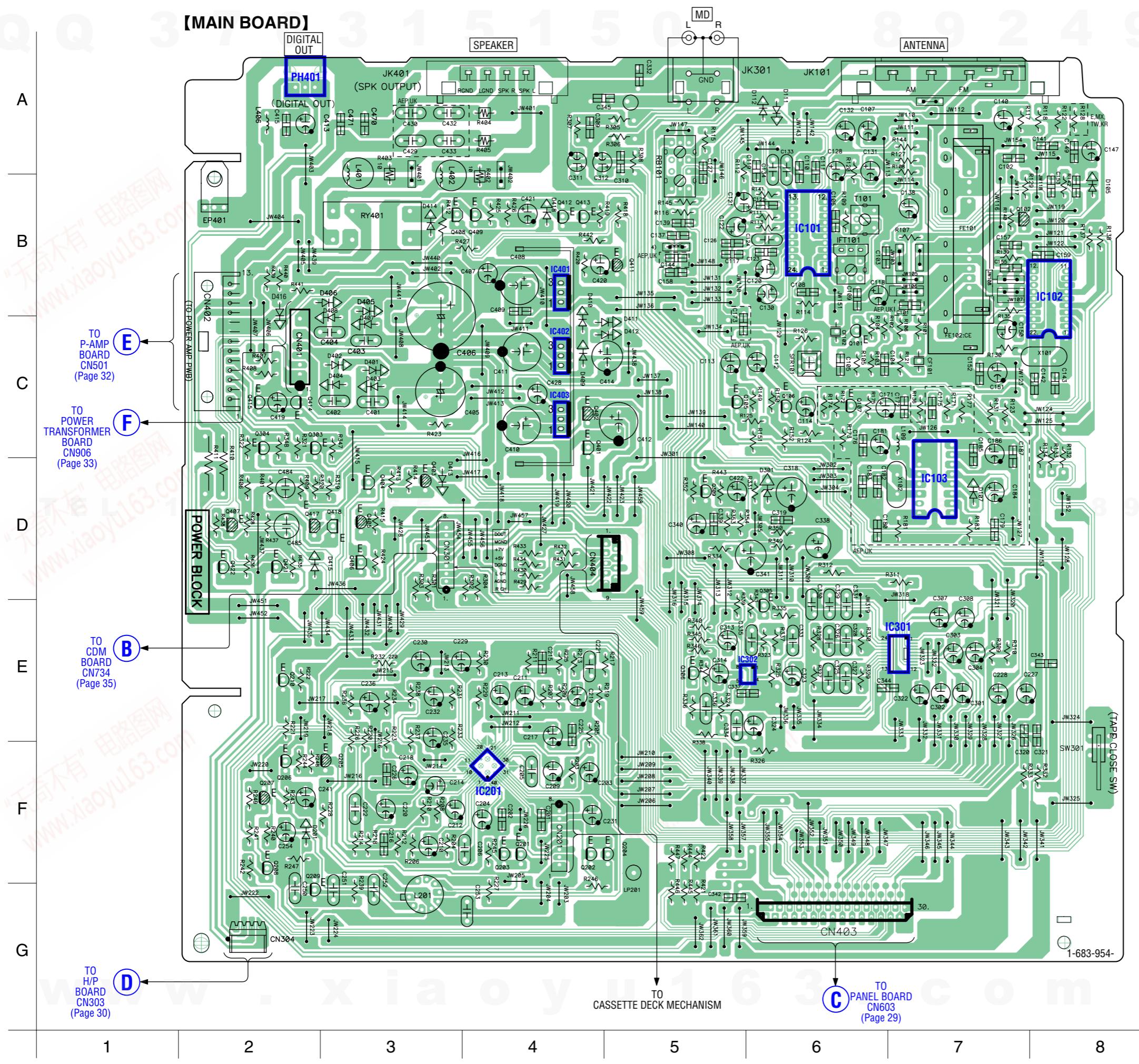


HCD-TB10

## **TUNER/CD Section**



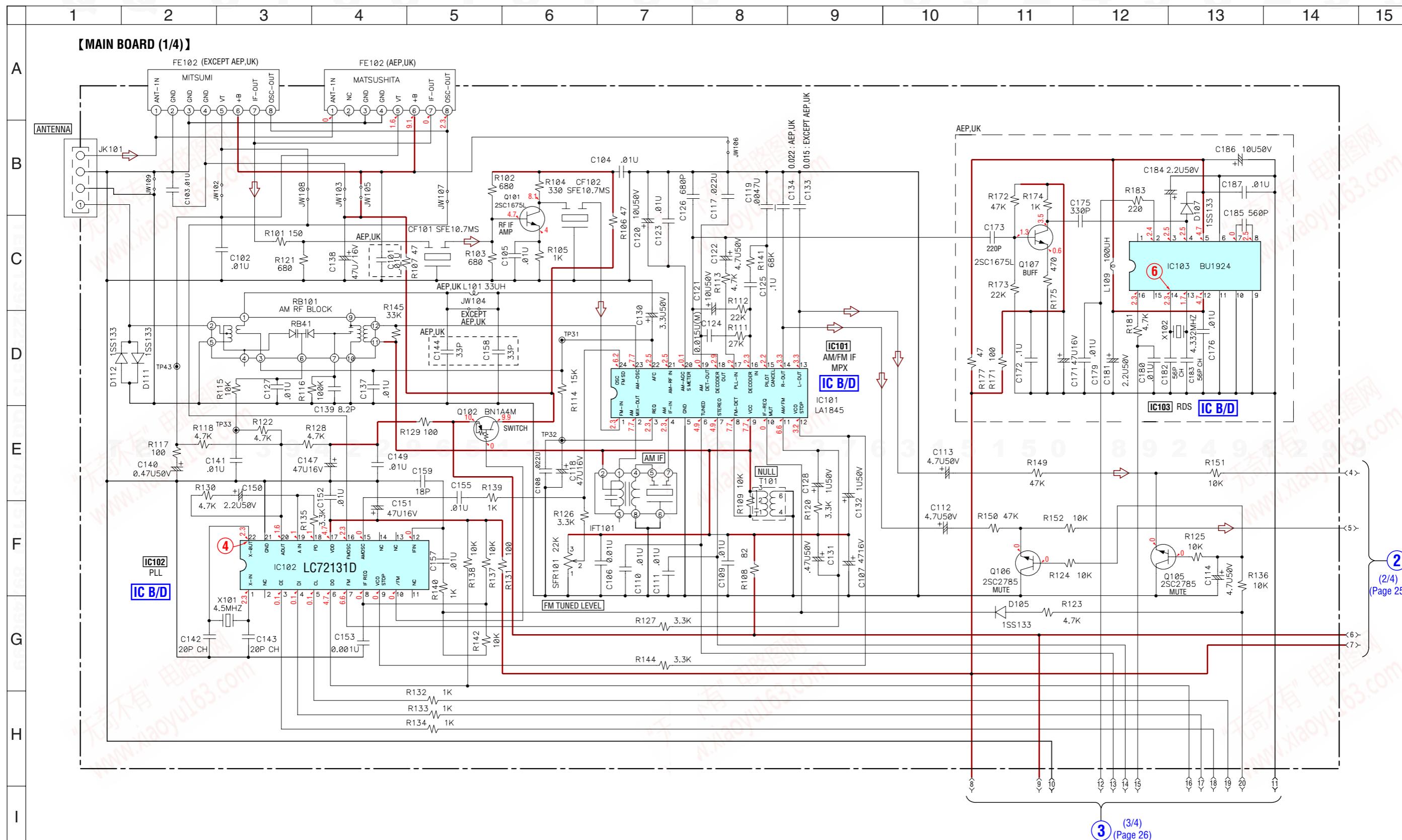
## 6-3. Printed Wiring Board – MAIN Section – • See page 19 for Circuit Boards Location.


**• Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D105	B-8	Q101	C-6
D107	D-7	Q102	B-7
D111	A-6	Q105	C-5
D112	A-6	Q106	C-6
D201	F-2	Q107	C-6
D301	D-6	Q201	F-4
D401	C-3	Q202	F-4
D402	C-3	Q203	F-4
D403	C-3	Q204	F-5
D404	C-3	Q205	F-3
D405	B-3	Q206	F-2
D406	B-3	Q207	F-2
D407	C-3	Q208	F-2
D408	B-3	Q209	G-2
D409	C-4	Q210	E-2
D410	B-4	Q303	C-2
D411	C-4	Q304	C-2
D412	C-4	Q305	E-6
D413	D-3	Q306	E-5
D414	B-3	Q309	D-5
D415	D-2	Q401	C-4
D416	C-2	Q402	C-4
D418	B-4	Q403	D-3
IC101	B-6	Q404	D-3
IC102	B-8	Q405	D-3
IC103	D-7	Q406	D-2
IC201	F-4	Q407	B-3
IC301	E-7	Q408	B-4
IC302	E-6	Q409	B-5
IC401	B-4	Q411	B-4
IC402	C-4	Q412	B-4
IC403	C-4	Q413	C-2

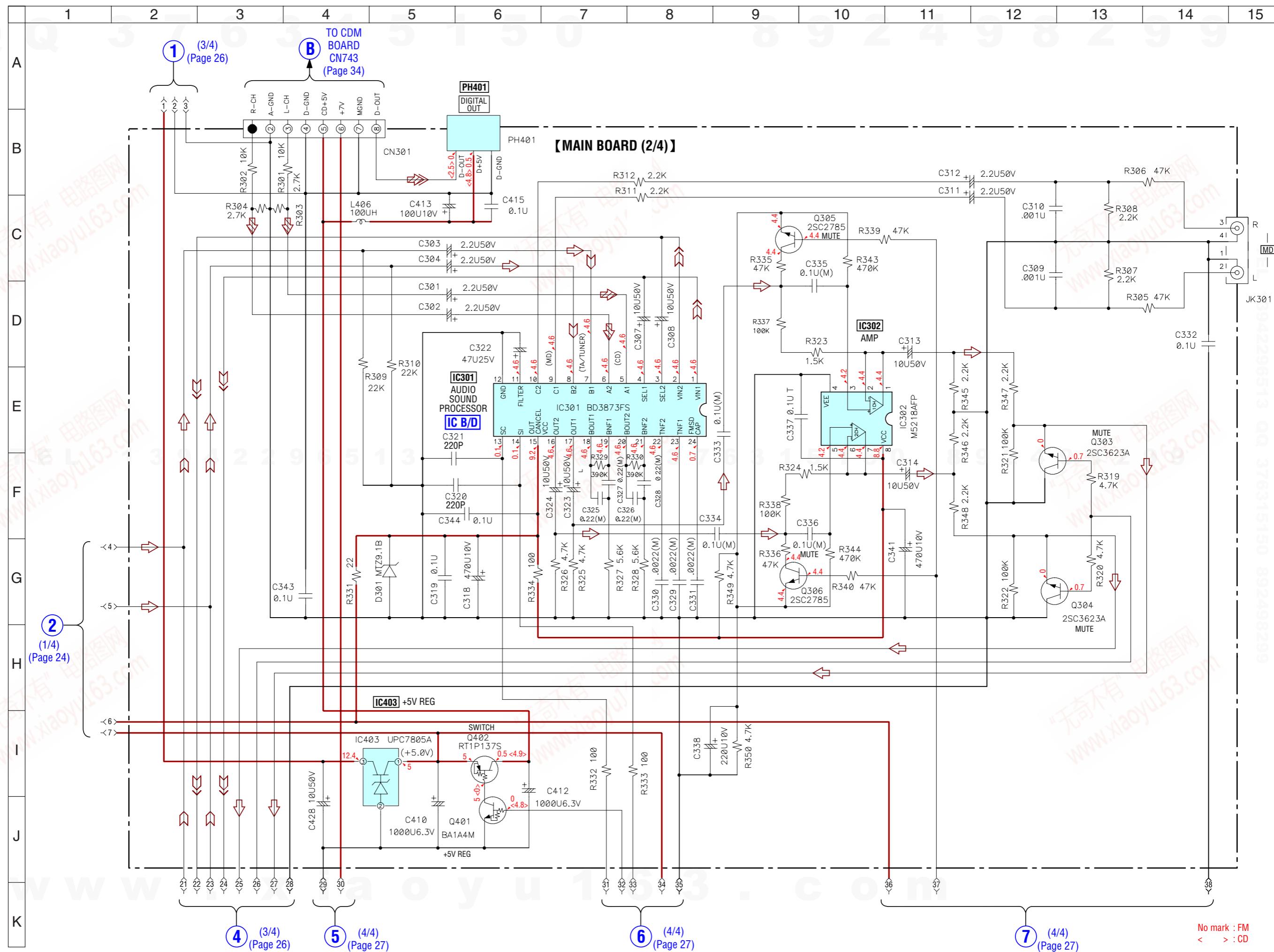
## 6-4. Schematic Diagram – MAIN Section (1/4) –

• See page 37, 38 for IC Block Diagrams. • See page 20 for Waveforms.



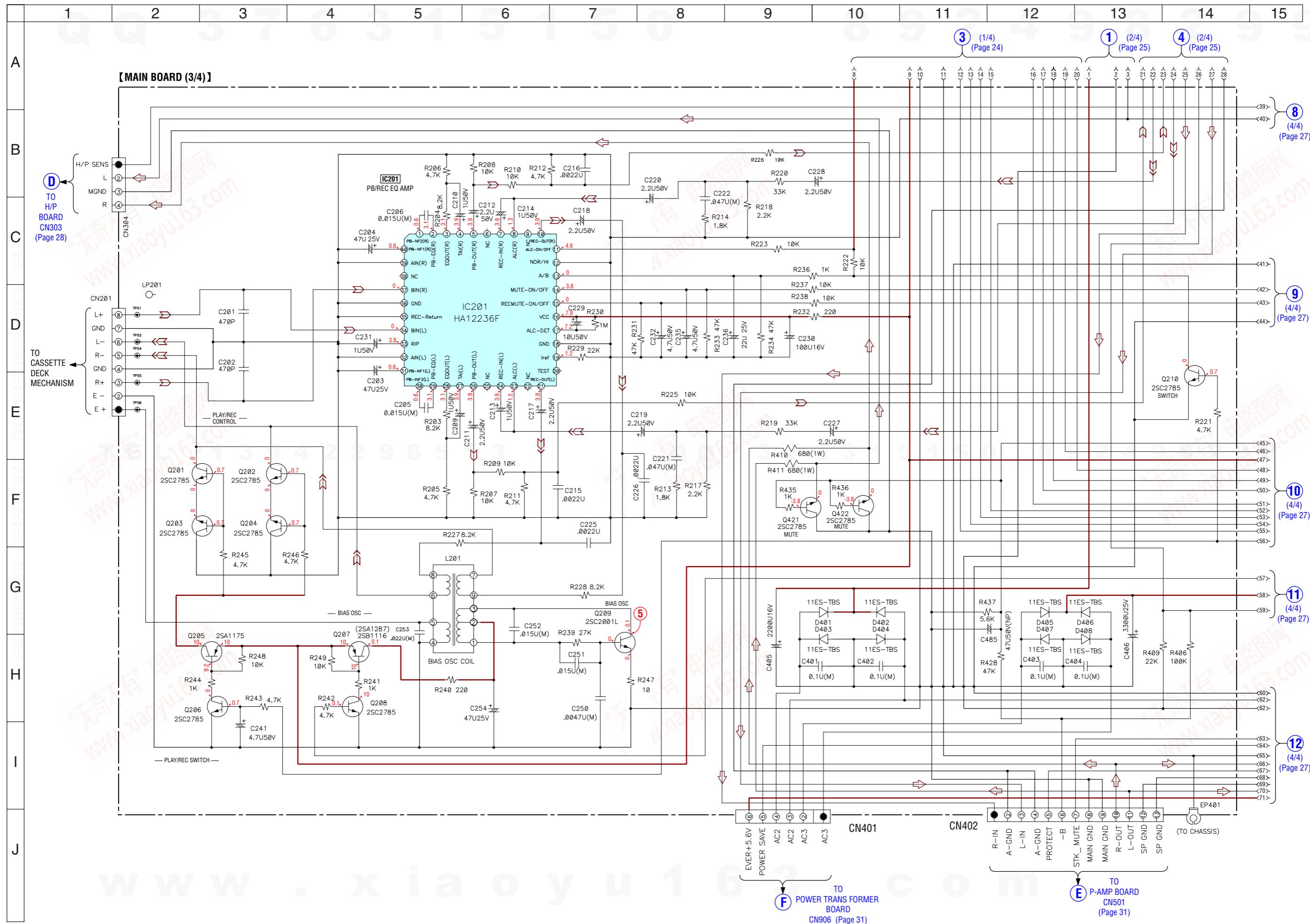
**6-5. Schematic Diagram – MAIN Section (2/4) –** • See page 38 for IC Block Diagrams.

## Block Diagrams

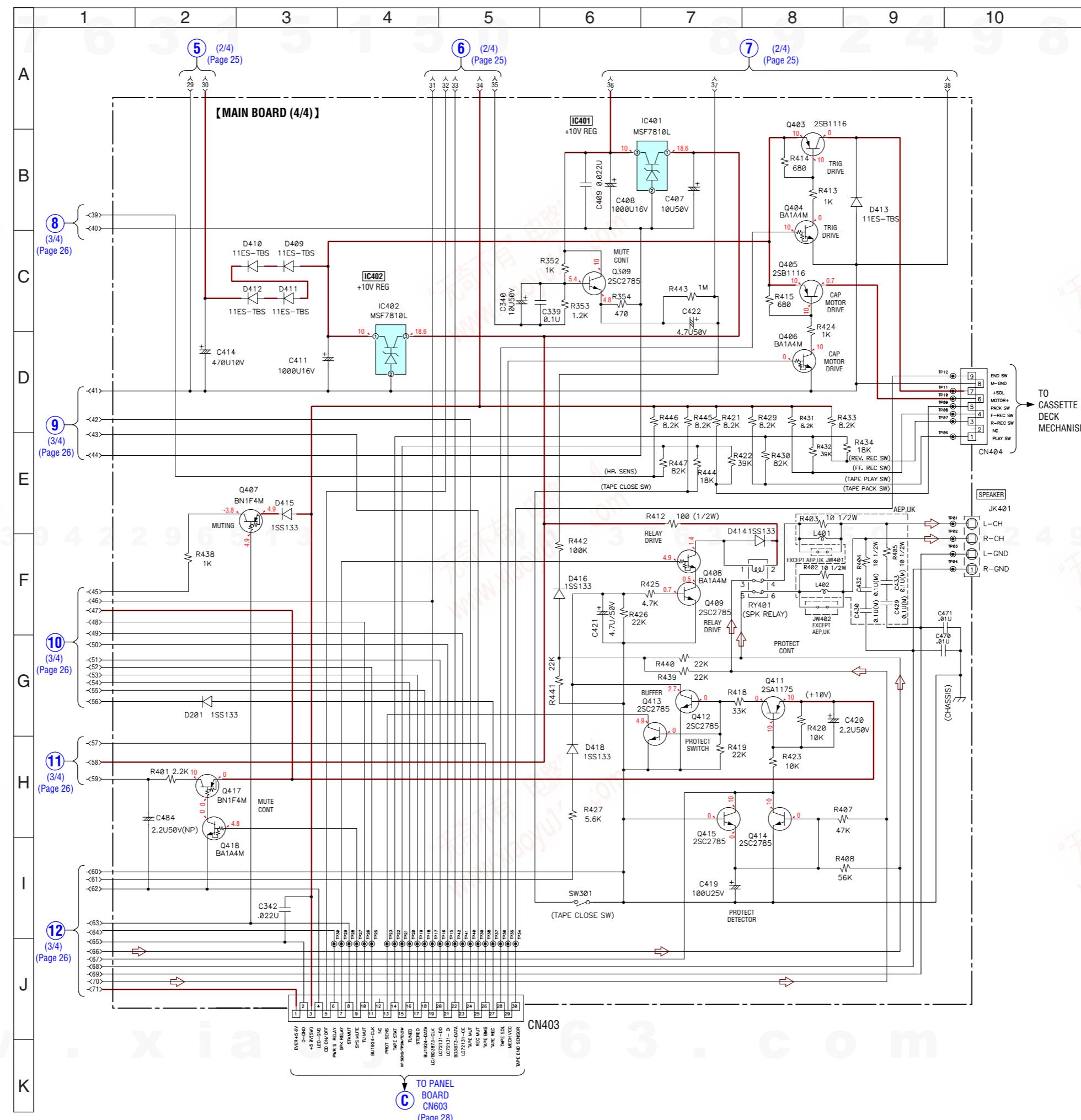


## HCD-TB10

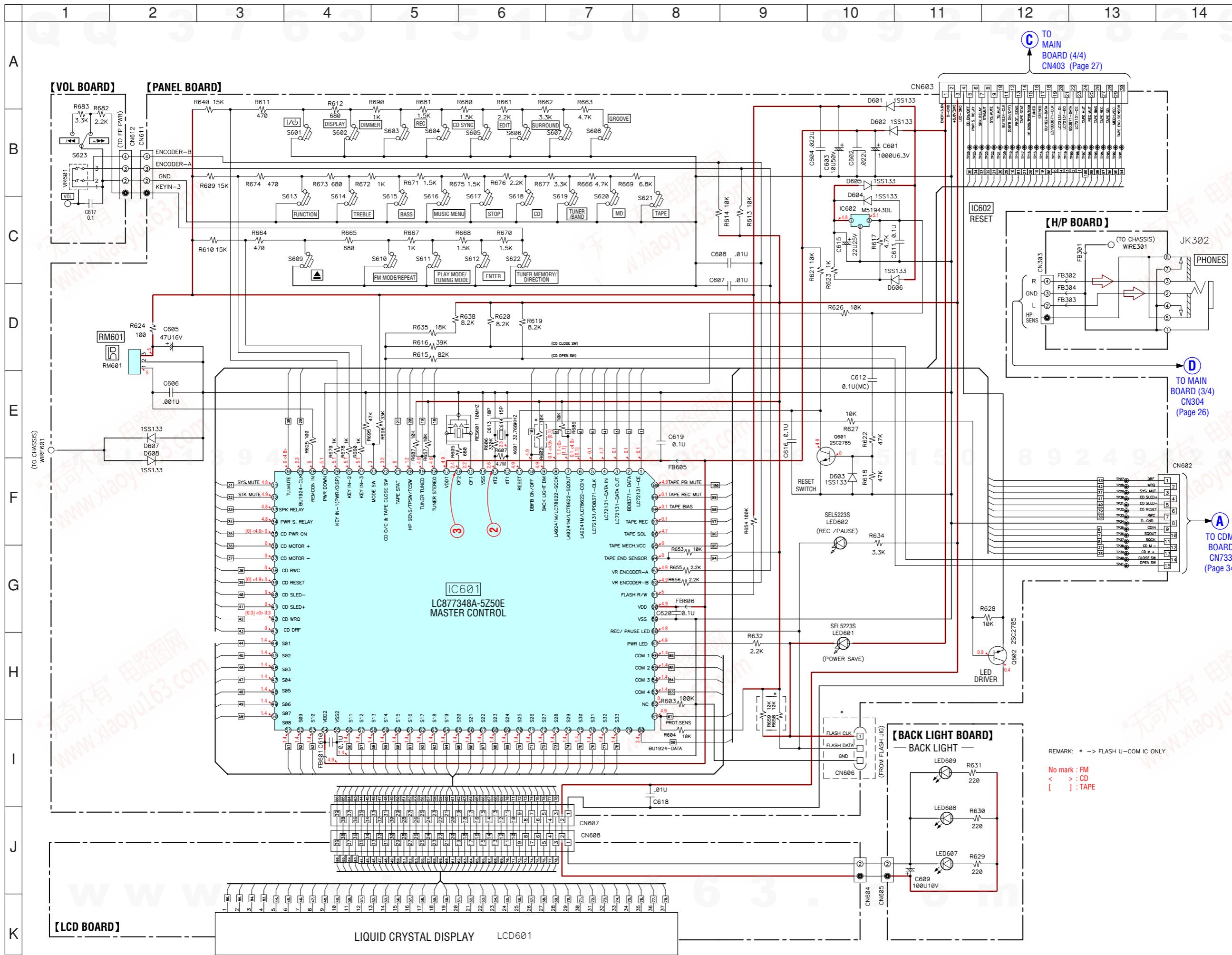
## 6-6. Schematic Diagram – MAIN Section (3/4) – • See page 20 for Waveforms.



## 6-7. Schematic Diagram – MAIN Section (4/4) –

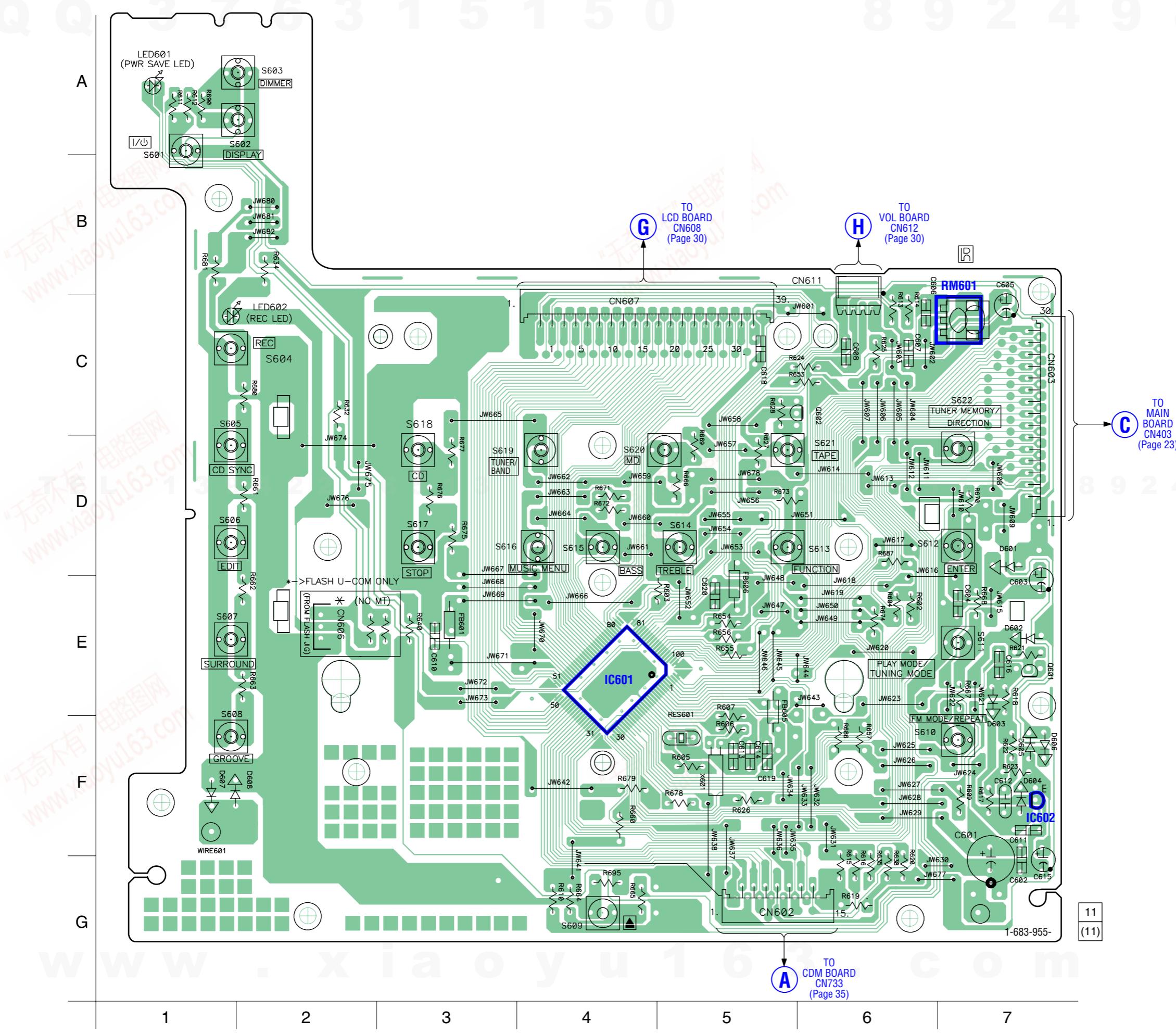


## 6-8. Schematic Diagram – PANEL Section – • See page 39 for IC Pin Function Description. • See page 20 for Waveforms.



6-9. Printed Wiring Board – PANEL Section – • See page 19 for Circuit Boards Locations

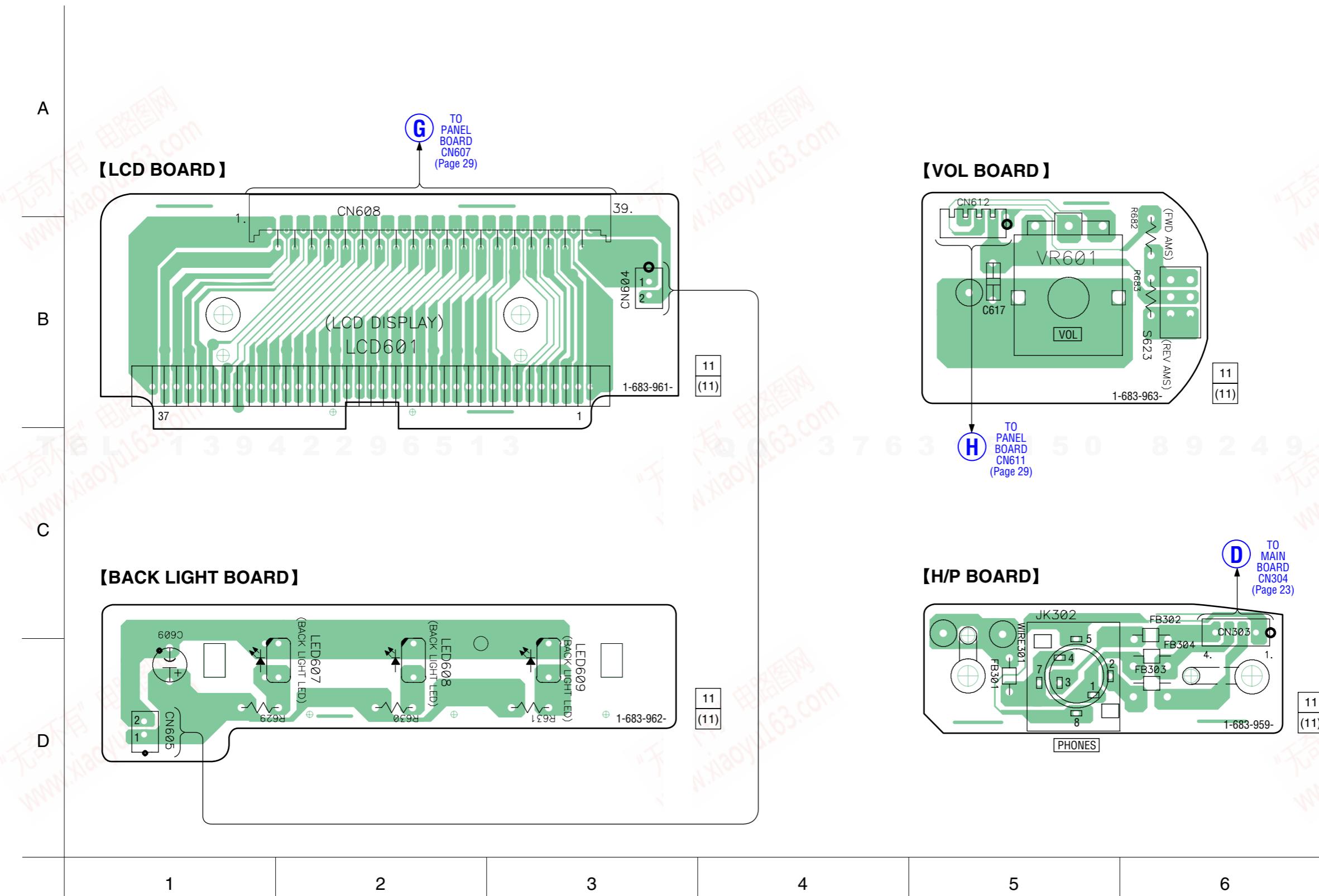
## 【PANEL BOARD】



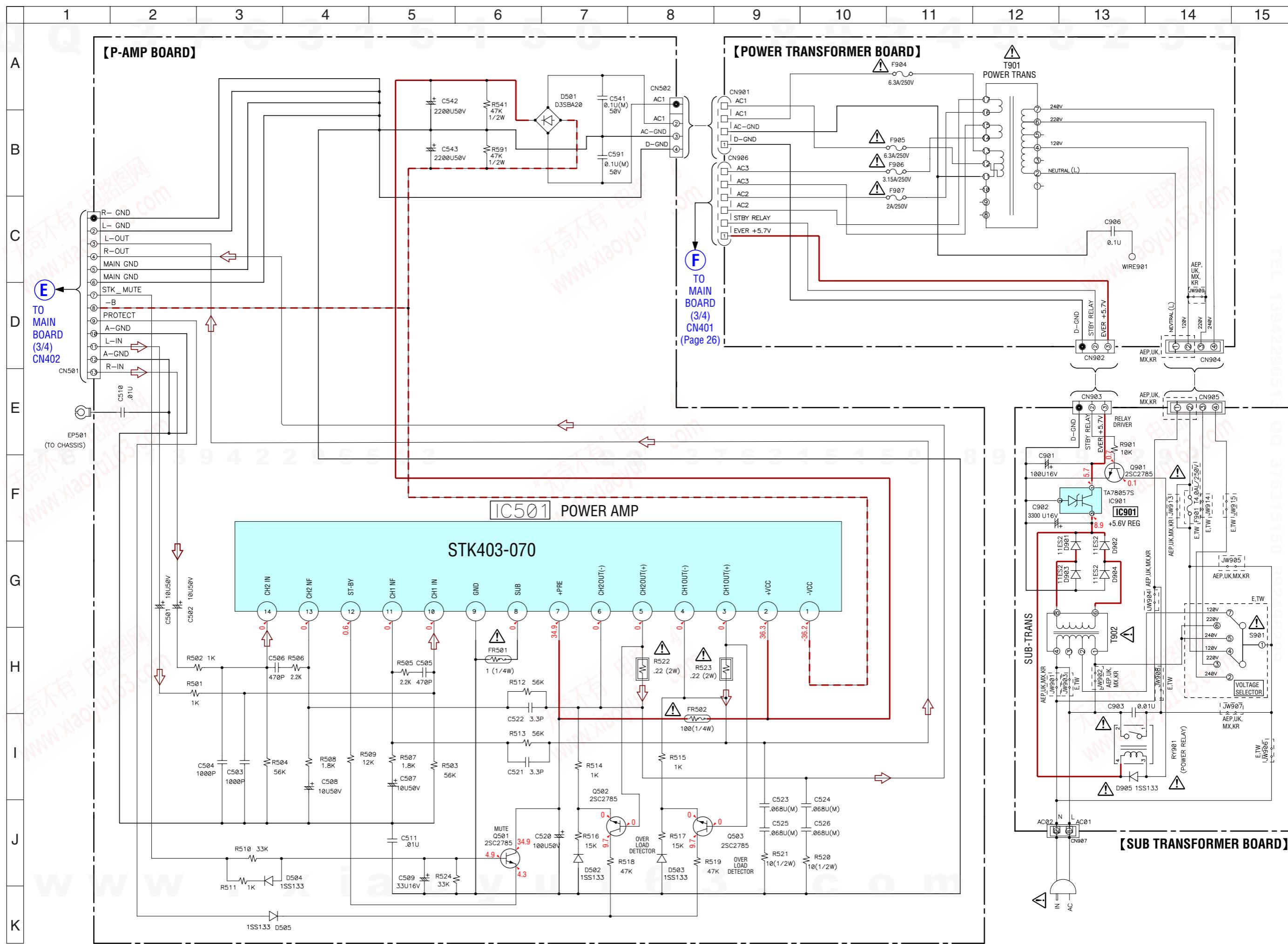
Ref. No.	Location
D601	D-7
D602	E-7
D603	E-7
D604	F-7
D605	F-7
D606	F-7
D607	F-1
D608	F-2
IC601	E-4
IC602	F-7
Q601	E-7
Q602	C-6

**HCD-TB10**

6-10. Printed Wiring Board – LCD Section – • See page 19 for Circuit Boards Location.



## 6-11. Schematic Diagram – AMP/POWER Section –

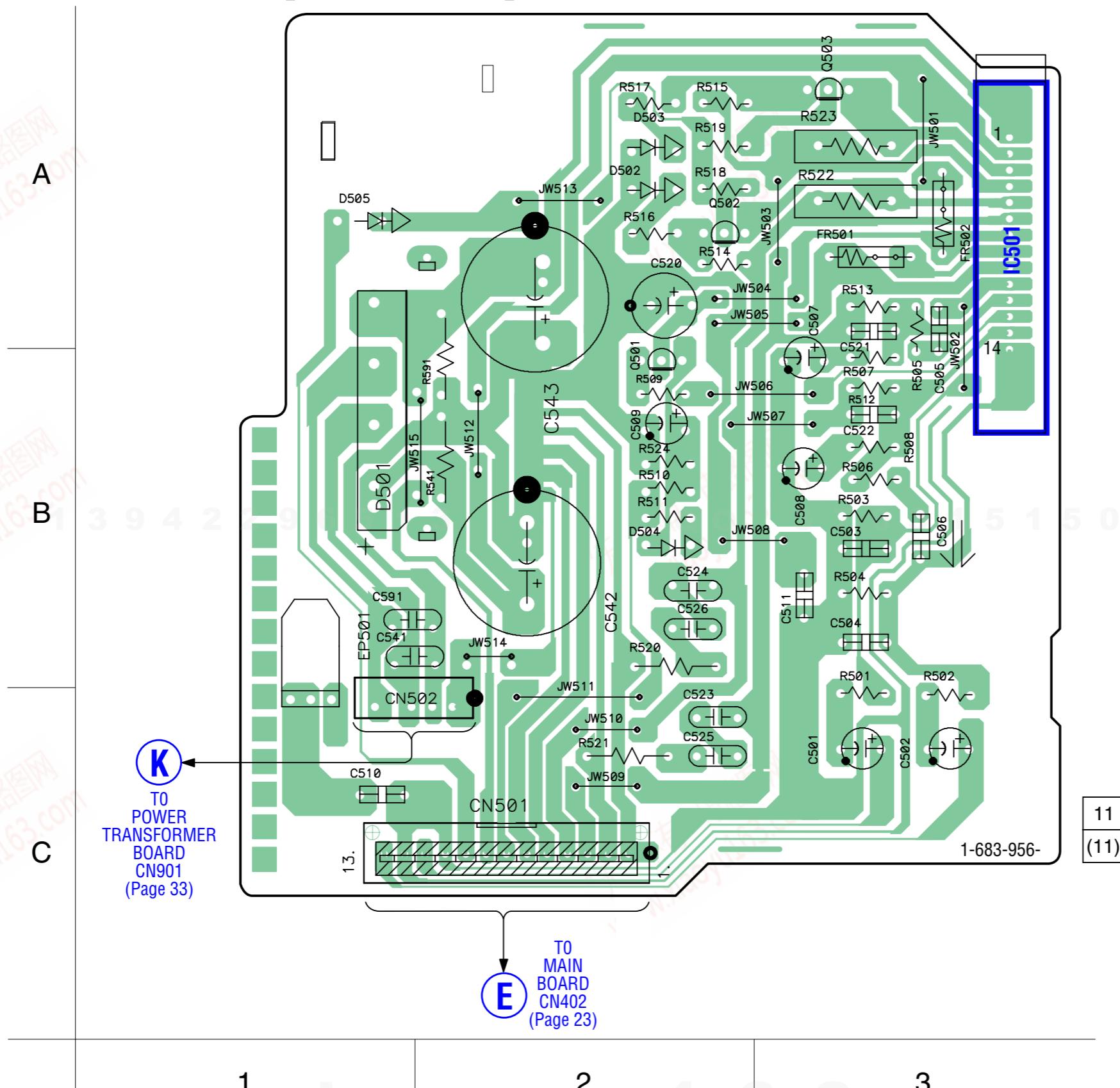


HCD-TB10

6-12. Printed Wiring Board – AMP Section – • See page 19 for Circuit Boards Location.

Q Q 3 7 6 3 1 5 1 5 0 8 9 2 4 9 8 2 9 9

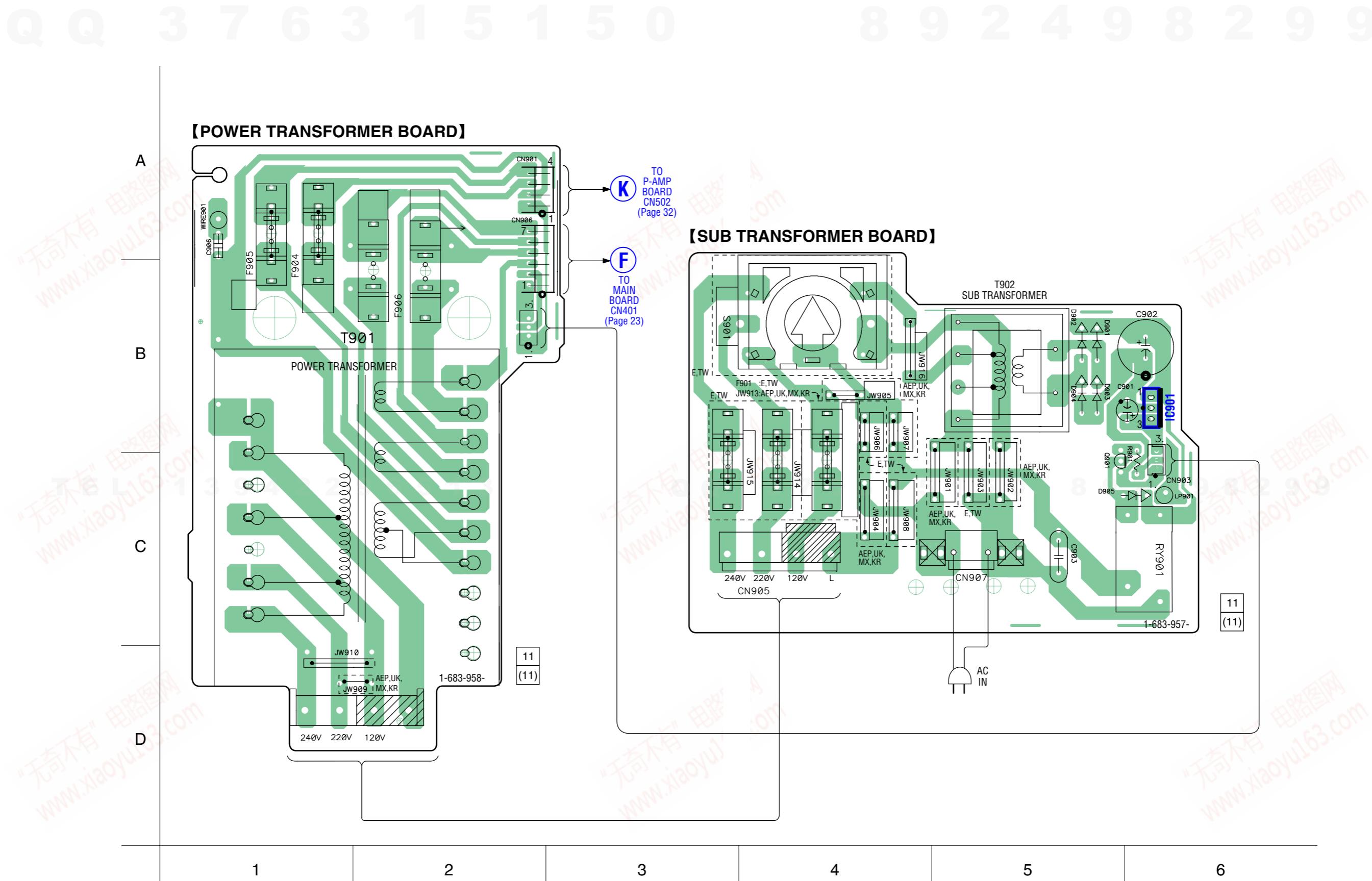
## 【P-AMP BOARD】



## • Semiconductor Location

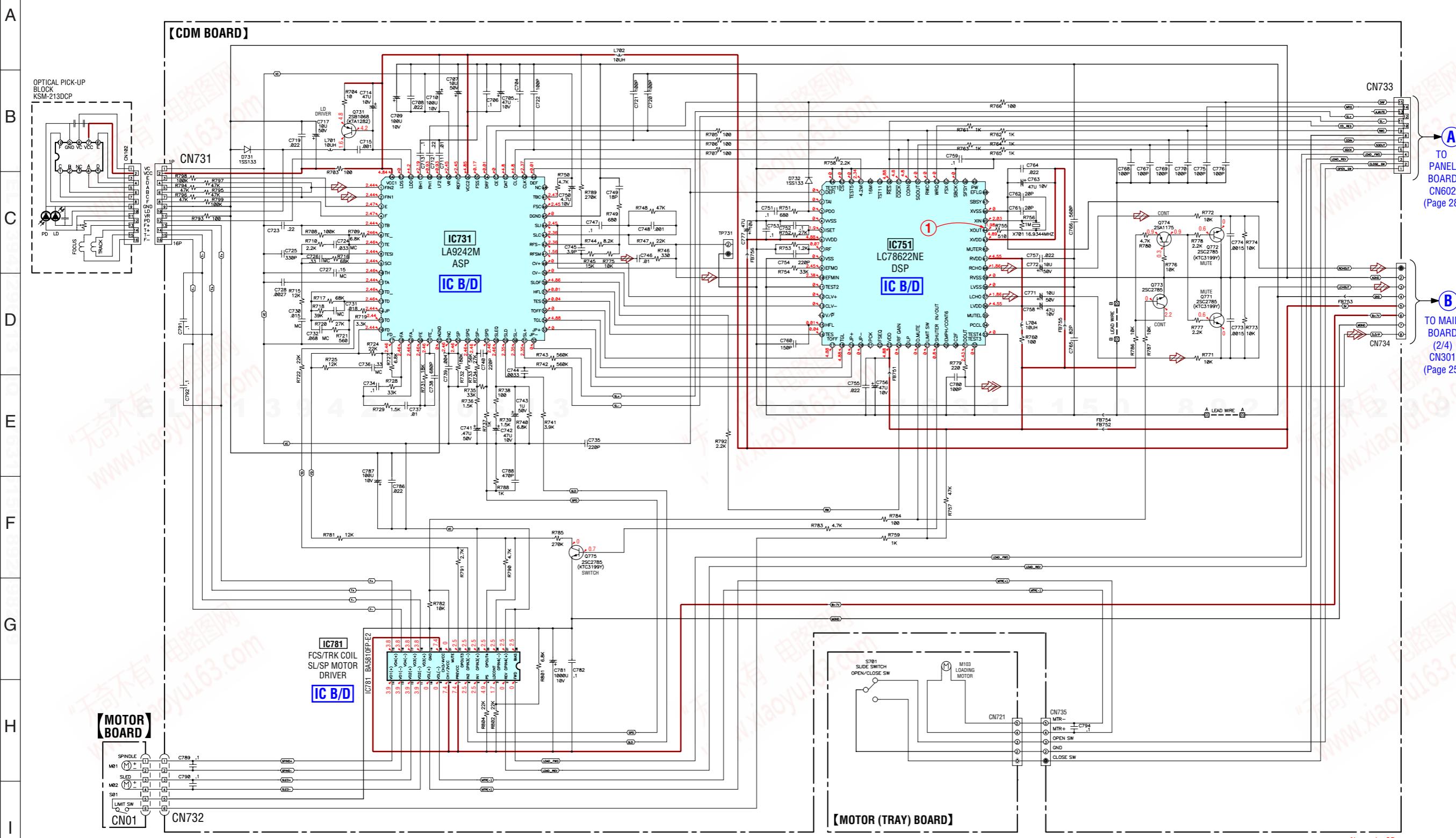
Ref. No.	Location
D501	B-1
D502	A-2
D503	A-2
D504	B-2
D505	A-1
IC501	A-3
Q501	B-2
Q502	A-2
Q503	A-2

6-13. Printed Wiring Board – POWER Section – • See page 19 for Circuit Boards Location.



## 6-14. Schematic Diagram – CD Section – • See page 36, 37 for IC Block Diagrams. • See page 20 for Waveforms.

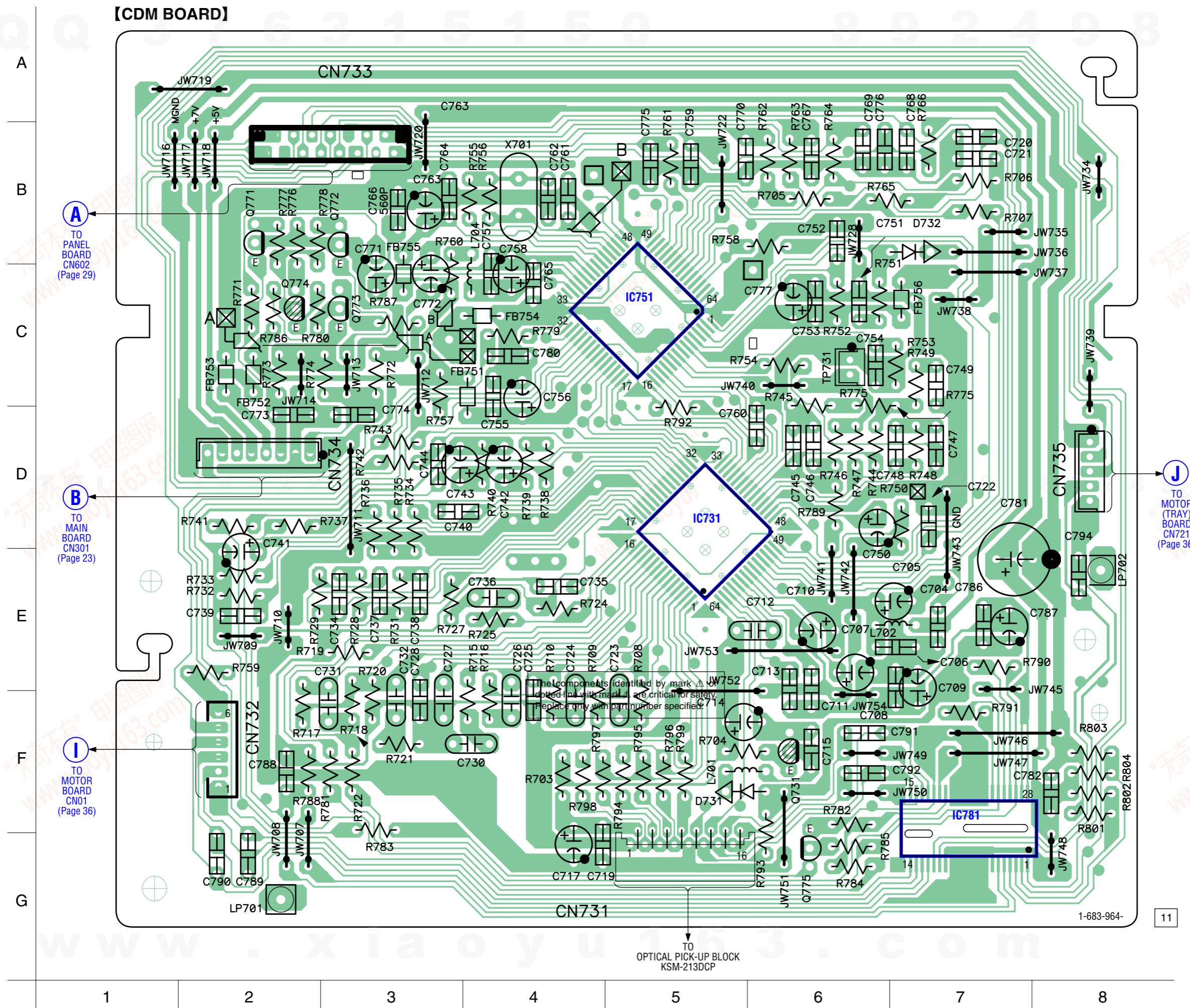
1 2 3 4 5 6 7 8 9 10 11 12 13 14



**6-15. Printed Wiring Board – CD Section –** • See page 19 for Circuit Boards Locations

- See page 19 for Circuit Boards Location

【CDM BOARD】



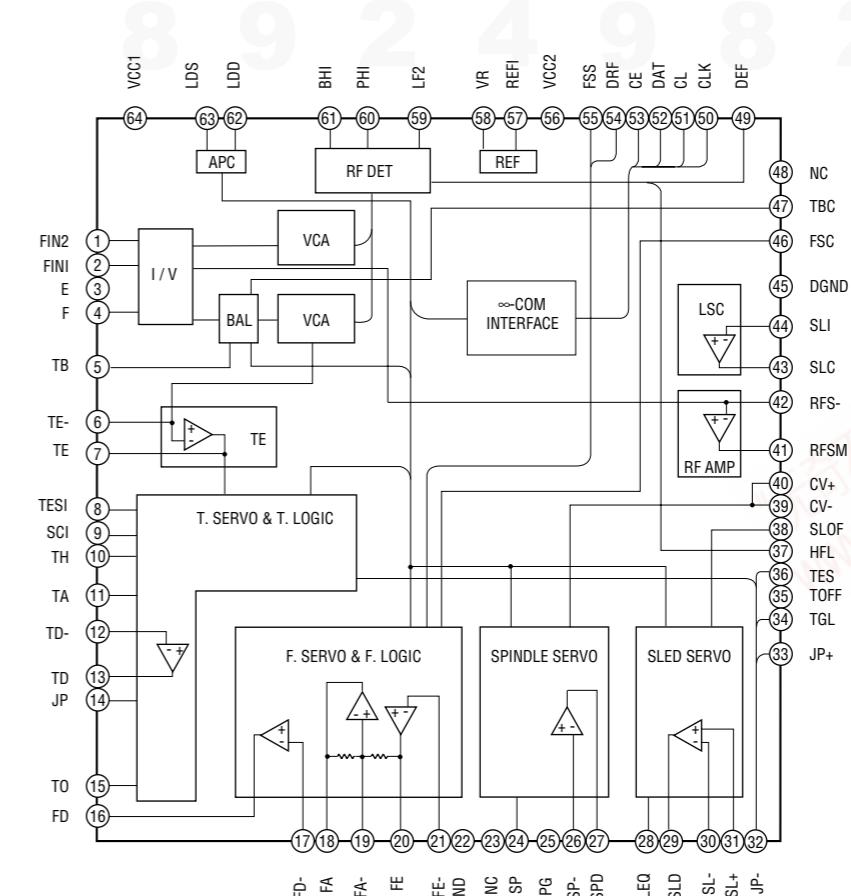
Ref. No.	Location
D731	F-5
D732	B-7
IC731	D-5
IC751	C-5
IC781	F-7
Q731	F-6
Q771	B-2
Q772	B-3
Q773	C-3
Q774	C-2
Q775	G-6

## **6-16. Printed Wiring Board – MOTOR Section –**

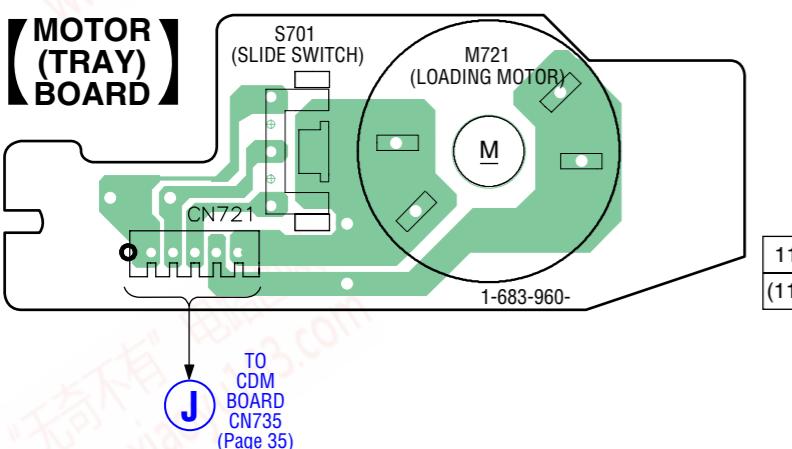
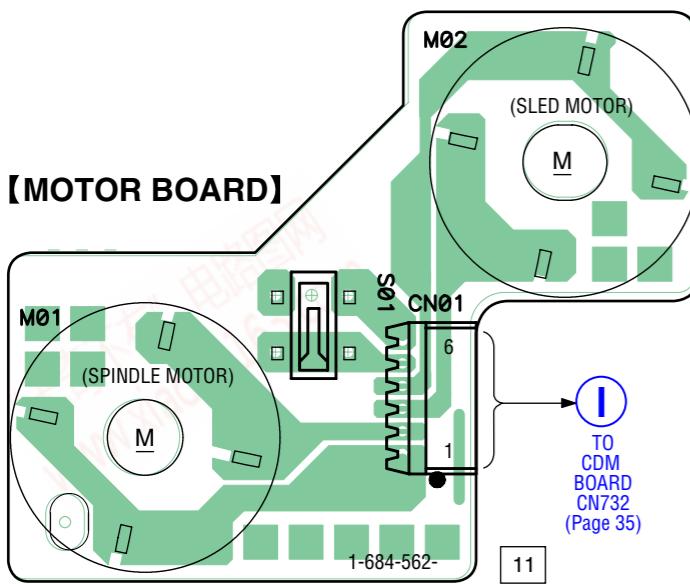
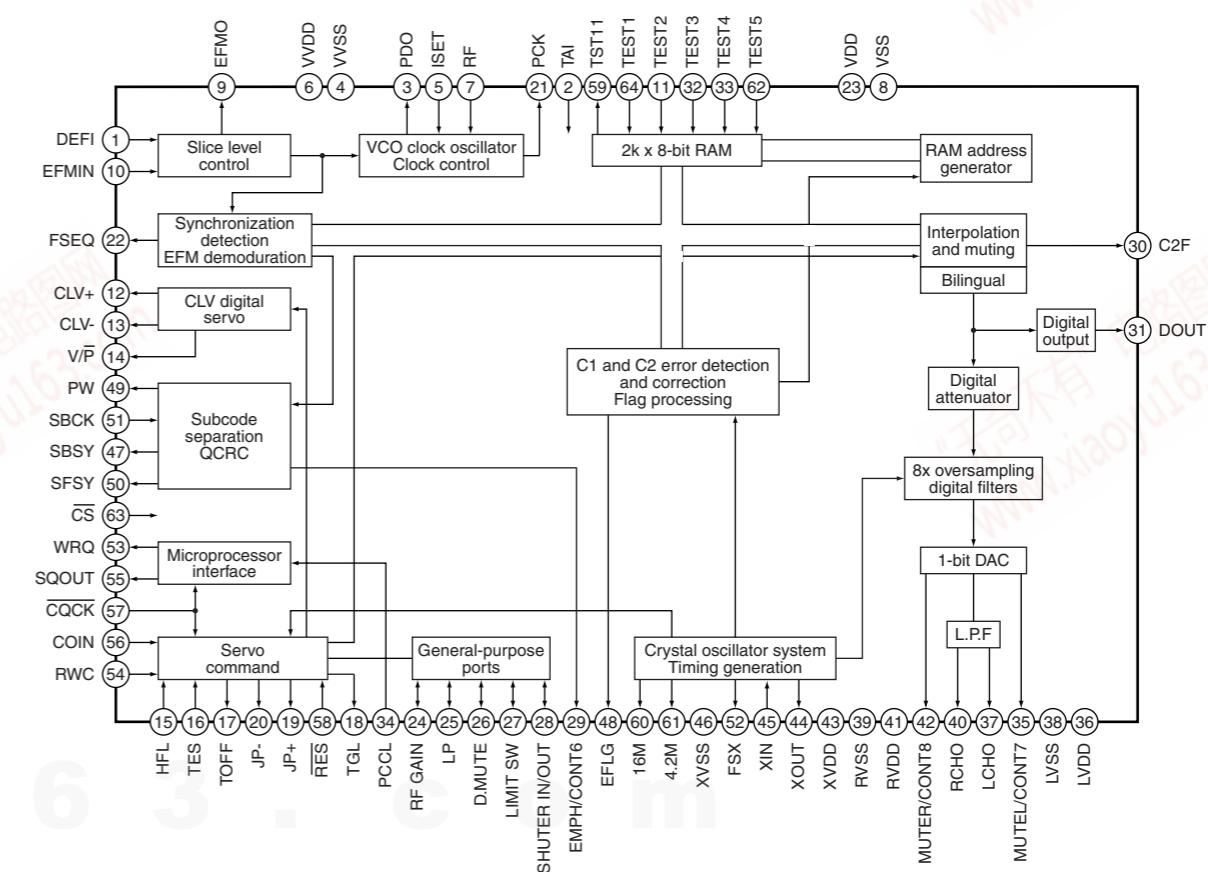
- See page 19 for Circuit Boards Location

- IC Block Diagrams

IC731 LA9242M

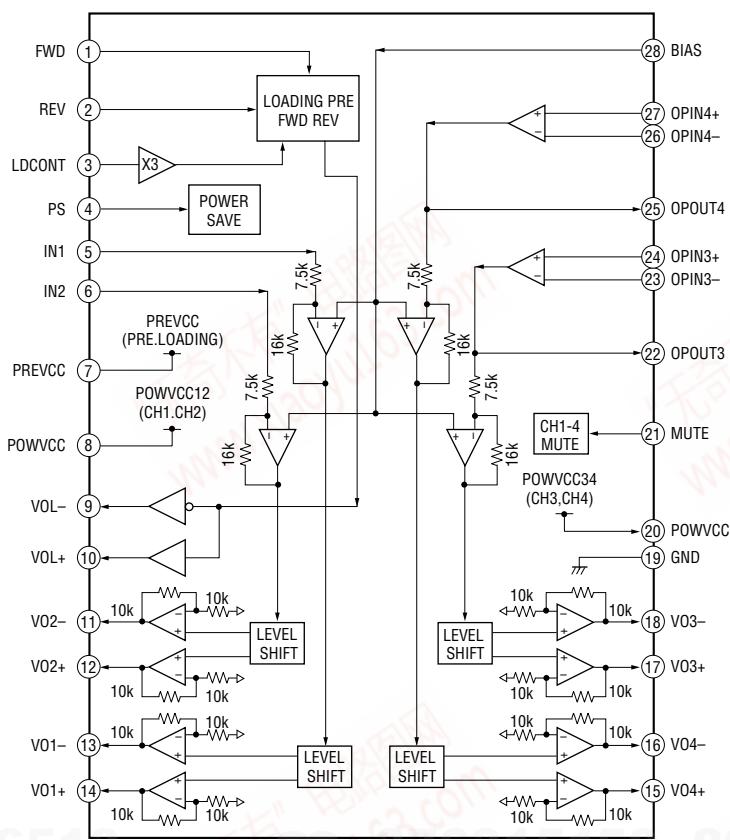


IC751 LC78622NE

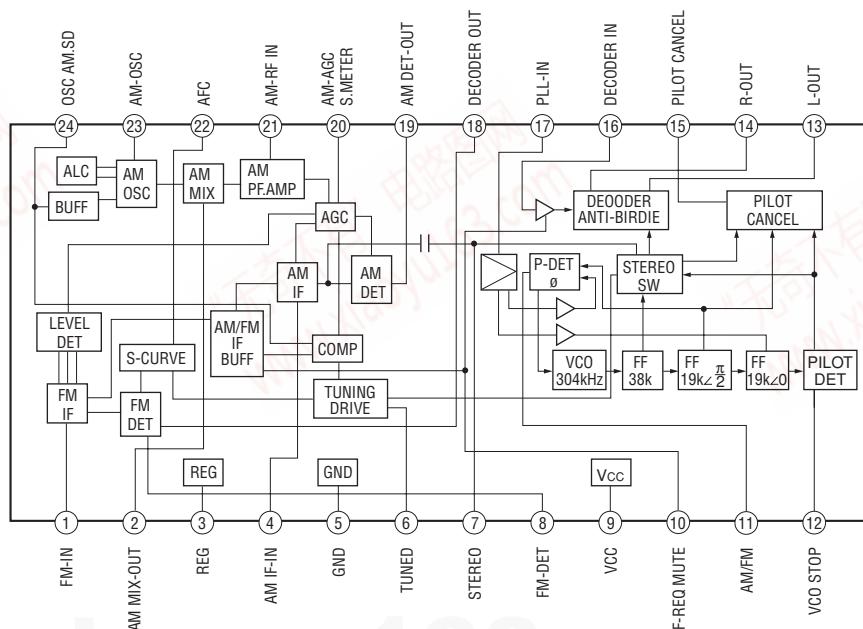


IC781 BA5810FP-E2

892498299

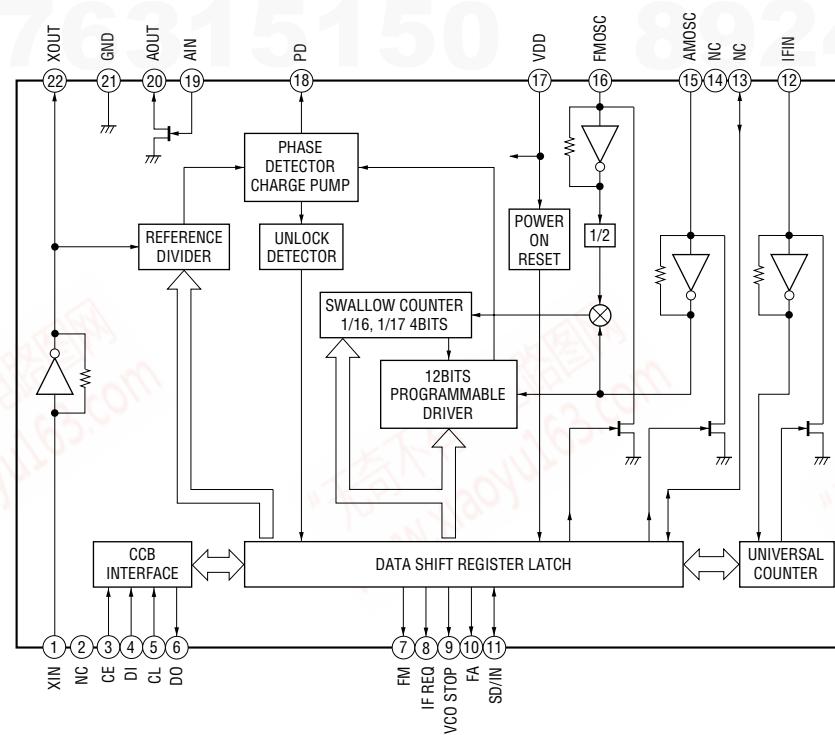


IC101 LA1845

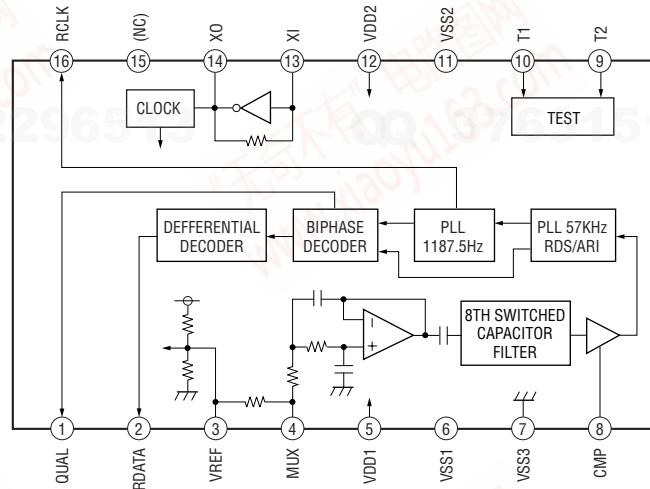


# HCD-TB10

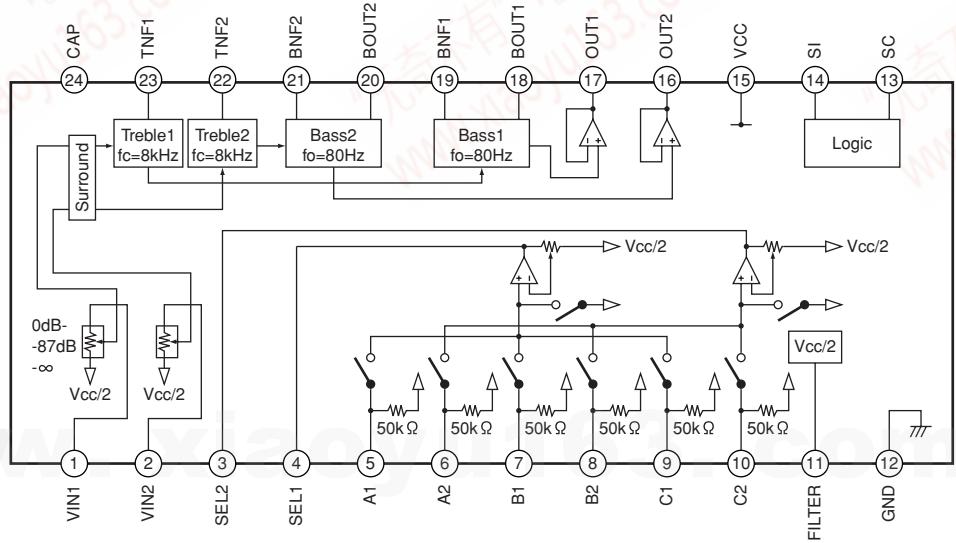
IC102 LC72131D



IC103 BU1924



IC301 BD3873FS



### 6-17. IC Pin Function Description

#### • IC601 LC877348A-5Z50E Master Control (PANEL Board)

Pin No.	Pin Name	I/O	Description
1	LC72131-CE	O	Chip select signal output to the PLL tuner IC
2	BD8371-DATA	O	Data/latch signal output to the sound processor
3	LC72131-DATA OUT	O	Data output to the PLL tuner IC
4	LC72131-DATA IN	I	Data input from the the PLL tuner IC
5	LC72131/BD8371-CLK	O	Clock output to the PLL tuner IC and the sound processor
6	LA9241M/LC78622-COIN	O	CD command data signal output
7	LA9241M/LC78622-SQOUT	I	CD subcode Q signal input
8	LA9241M/LC78622-SQCK	O	CD command clock signal output
9	BACK LIGHT DM	O	Back light LED control signal output
10	DBFB ON/OFF	—	Not used
11	RESET	I	Reset input
12	XT1	I	Connection for a crystal resonator
13	XT2	O	Connection for a crystal resonator
14	VSS	—	Ground
15	CF1	I	Connection for a ceramic resonator
16	CF2	O	Connection for a ceramic resonator
17	VDD1	—	Power supply
18	TUNER STEREO	I	Stereo tuning signal input
19	TUNER TUNED	I	Tuning a frequency signal input
20	HP SENS/TPSW/TCSW	I	Headphone detection switch, tape pack switch and tape close switch signal input
21	TAPE STAT	I	Tape play switch, FF rec switch and REV rec switch signal input
22	CD O/C & TAPE CLOSE SW	I	CD open switch and CD close switch signal input
23	MODE SW	I	Terminal for mode setting
24	KEY IN-3	I	Function key input
25	KEY IN-2	I	Function key input
26	KEY IN-1 (PWR/DISP)	I	Function key input
27	PWR DOWN	I	Power down signal input
28	REMC CON IN	I	Data input from the remote control receiver
29	BU1924-CLK	I	Clock input from the RDS decoder IC
30	TU.MUTE	O	Tuner muting signal output
31	SYS.MUTE	O	System muting signal output
32	STK MUTE	O	Power amplifier muting signal output
33	SPK RELAY	O	Speaker relay control signal output
34	PWR S. RELAY	O	Standby relay control signal output
35	CD PWR ON	O	Power control signal output for CD block
36	CD MOTOR +	O	CD loading motor control signal output
37	CD MOTOR -	O	CD loading motor control signal output
38	CD RWC	O	Read/write control signal output
39	CD RESET	O	CD reset signal output
40	CD SLED-	O	Sled motor control signal output
41	CD SLED+	O	Sled motor control signal output
42	CD WRQ	I	Subcode Q standby signal input
43	CD DRF	I	RF level detection signal input

<b>Pin No.</b>	<b>Pin Name</b>	<b>I/O</b>	<b>Description</b>
44 to 53	S01 to S10	O	Segment drive signal output to the liquid crystal display
54	VDD2	-	Power supply
55	VSS2	-	Ground
56 to 78	S11 to S33	O	Segment drive signal output to the liquid crystal display
79	NC	-	Not used (open)
80	BU1924-DATA	I	Data input from the RDS decoder IC
81	PROT.SENS	I	Power amplifier circuit protection signal input
82	NC	-	Connected to ground
83 to 86	COM 4 to COM 1	O	Common drive signal output to the liquid crystal display
87	PWR LED	O	Standby LED control signal output
88	REC/PAUSE LED	O	REC/PAUSE LED control signal output
89	VSS	-	Ground
90	VDD	-	Power supply
91	FLASH R/W	-	Fixed at "H"
92	VR ENCODER-B	I	Volume signal input from the rotary encoder
93	VR ENCODER-A	I	Volume signal input from the rotary encoder
94	TAPE END SENSOR	I	Tape end sensor signal input
95	TAPE MECH.VCC	O	Motor power control signal output for the tape deck
96	TAPE SOL	O	Solenoid control signal output for the tape deck
97	TAPE REC	O	Tape recording switch control signal output
98	TAPE BIAS	O	Tape recording bias on/off control signal output
99	TAPE REC MUT	O	Tape recording muting control signal output
100	TAPE PB MUTE	O	Tape playback muting control signal output

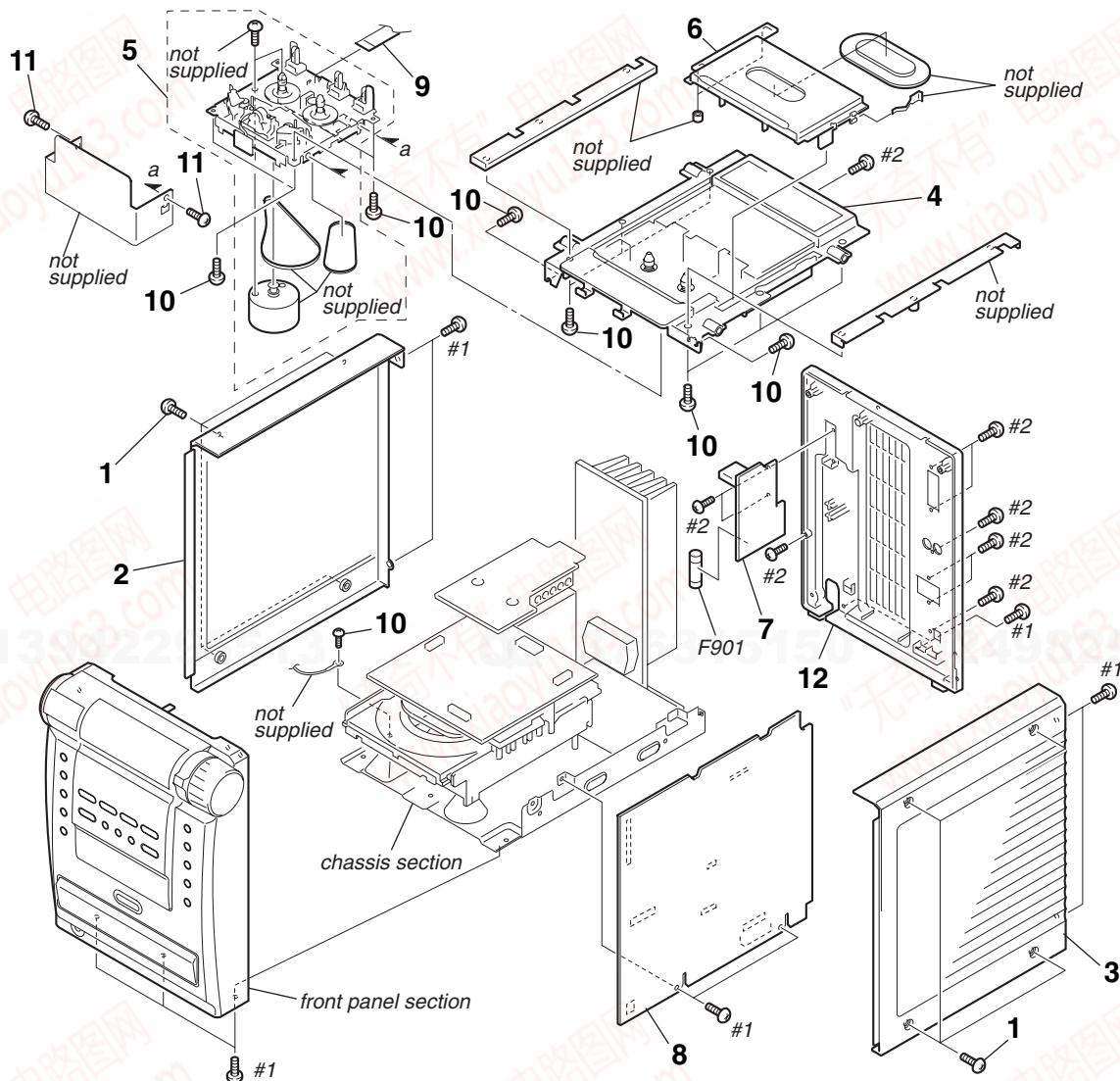
## SECTION 7 EXPLODED VIEWS

**NOTE:**

- XX, -X mean standardized parts, so they may have some differences 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.

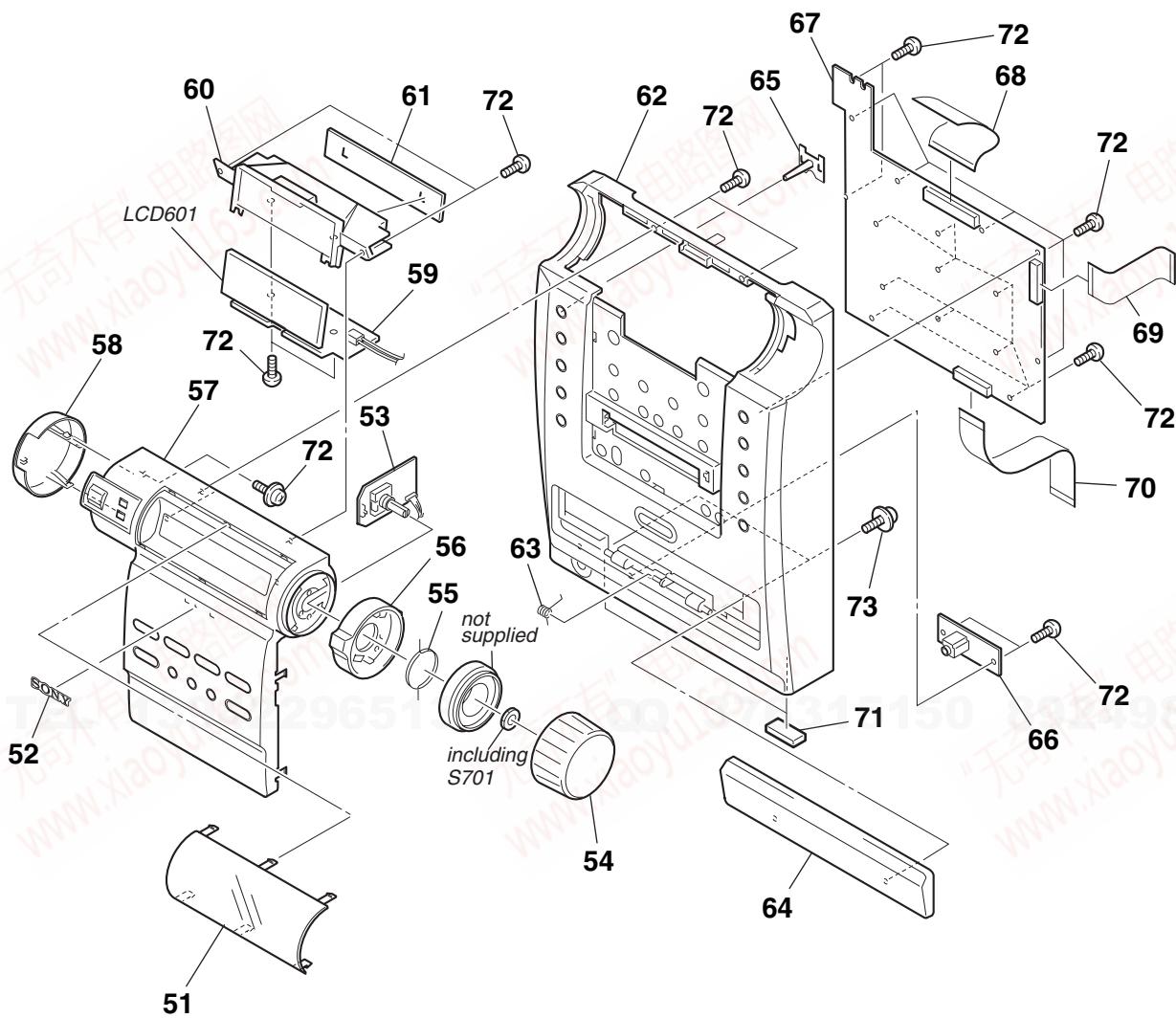
- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation
  - MX : Mexican model
  - KR : Korea model
  - TW : Taiwan model.

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

**7-1. Side Panel, Back Panel Section**

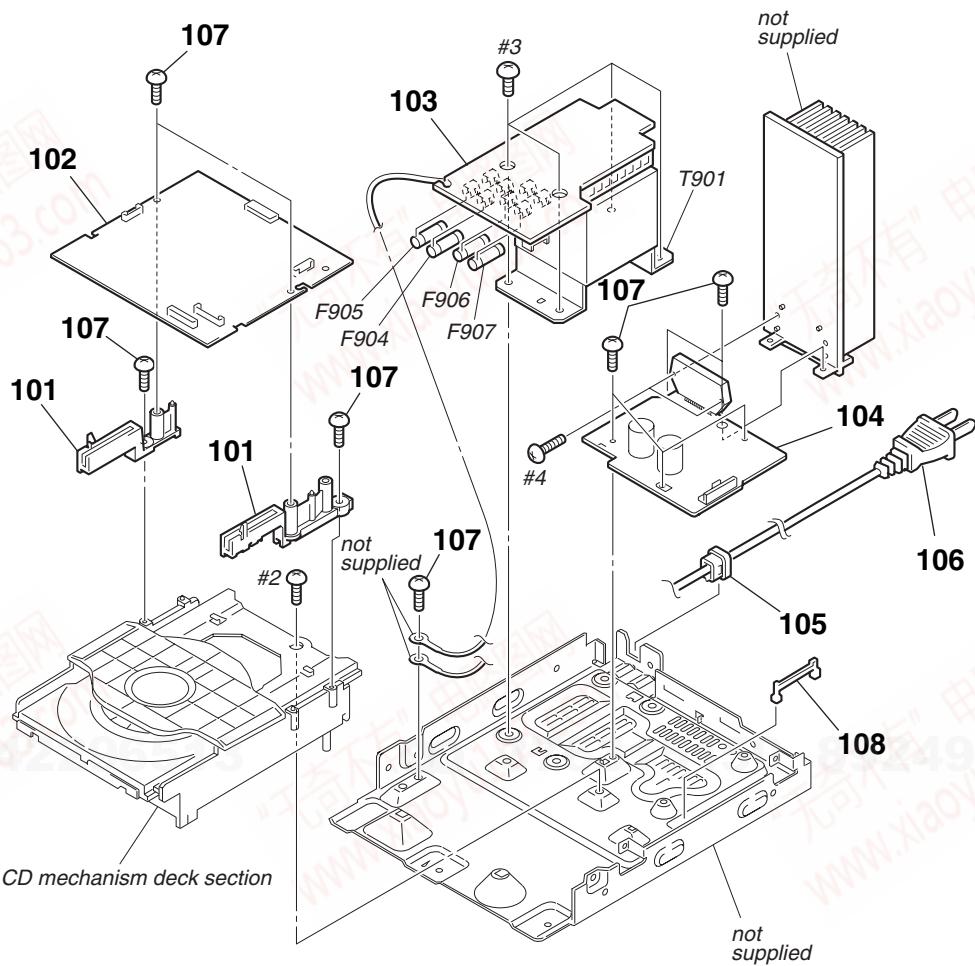
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	3-363-099-11	SCREW (CASE 3 TP2)		9	1-575-783-21	WIRE (FLAT TYPE) (9 CORE)	
2	4-238-352-01	PANEL (L), SIDE		10	4-951-620-01	SCREW (2.6X8), +BVTP	
3	4-238-353-01	PANEL (R), SIDE		11	4-933-134-41	SCREW (+PTPWH 2.6X5)	
4	4-238-351-01	PANEL, TOP (AEP,UK,KR)		12	4-238-355-01	PANEL, BACK (AEP,UK)	
4	4-238-351-11	PANEL, TOP (E,MX,TW)		12	4-238-355-11	PANEL, BACK (E,TW)	
5	1-796-351-21	MECHANISM, SIGNAL CASSETTE		12	4-238-355-21	PANEL, BACK (MX)	
6	4-237-518-11	LID, TC		12	4-238-355-31	PANEL, BACK (KR)	
7	1-683-957-11	SUB TRANSFORMER BOARD		$\triangle$	F901	FUSE, GLASS TUBE (DIA. 5) T4A/250V (E,TW)	
8	A-4729-701-A	MAIN BOARD,COMPLETE (AEP,UK)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
8	A-4730-327-A	MAIN BOARD,COMPLETE (E,MX,KR)		#2	7-685-872-09	SCREW +BVTT 3X8 (S)	
8	A-4730-329-A	MAIN BOARD,COMPLETE (TW)					

## 7-2. Front Panel Section



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	4-237-501-11	WINDOW		63	4-231-670-11	SPRING (CD)	
52	4-962-708-52	EMBLEM (4-A), SONY		64	4-237-512-11	LID, CD	
53	1-683-963-11	VOL BOARD		65	4-237-509-11	BUTTON (REC)	
54	4-237-504-01	KNOB (VOL)		66	1-683-959-11	H/P BOARD	
55	4-237-530-01	SPRING		67	A-4729-704-A	PANEL BOARD, COMPLETE	
56	4-237-505-01	SHUTTLE		68			
57	4-237-500-11	PANEL, SUB		69			
58	4-237-503-01	CAP		70	1-773-006-11	WIRE (FLAT TYPE) (15 CORE)	
59	1-683-961-11	LCD BOARD		71	4-233-980-01	RUBBER FOOT	
60	4-238-356-01	HOLDER, LCD		72	4-951-620-01	SCREW (2.6X8), +BVTP	
61	1-683-962-11	BACK LIGHT BOARD		73	4-933-134-41	SCREW (+PTPWH 2.6X5)	
62	4-237-499-21	PANEL, FRONT (AEP,UK)		LCD601	1-804-615-11	DISPLAY PANEL, LIQUID CRYSTAL	
62	4-237-499-31	PANEL, FRONT (E,MX,TW,KR)					

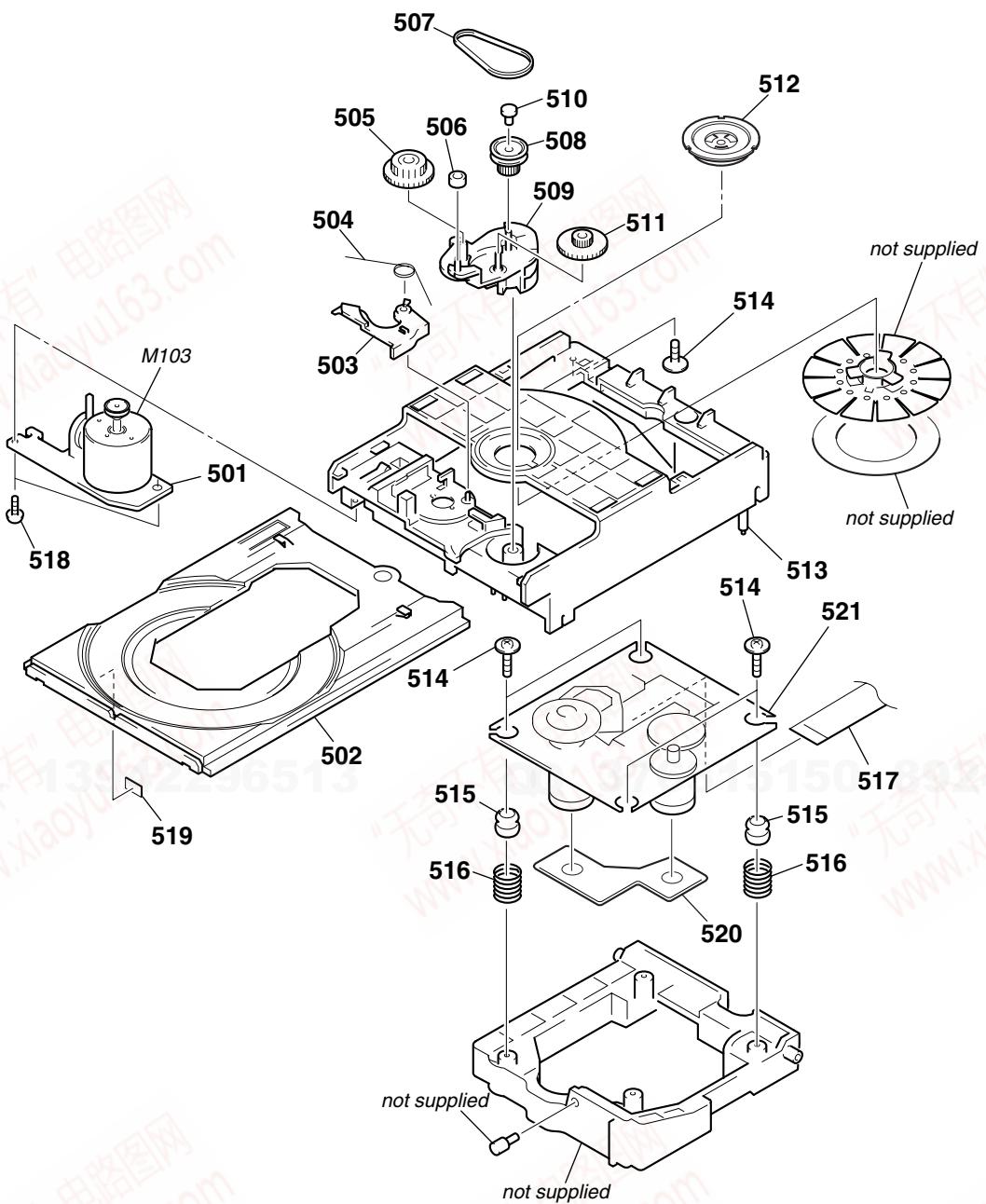
### 7-3. Chassis Section



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks	
101	4-238-354-01	HOLDER, PWB		△ F905	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) T6.3A/250V		
102	A-4729-714-A	CDM BOARD, COMPLETE		△ F906	1-533-470-11	FUSE, GLASS TUBE (DIA. 5) T3.15A/250V		
103	1-683-958-11	POWER TRANSFORMER BOARD		△ F907	1-533-468-11	FUSE, GLASS TUBE (DIA. 5) T2A/250V		
104	A-4729-709-A	P-AMP BOARD, COMPLETE		△ T901	1-437-619-11	TRANSFORMER, POWER (AEP,UK)		
* 105	3-703-244-00	BUSHING (2104), CORD (KR)		△ T901	1-437-721-11	TRANSFORMER, POWER (E,MX,TW,KR)		
105	3-703-244-11	BUSHING (2104), CORD (AEP,UK,E,MX,TW)		#2	7-685-872-09	SCREW +BVTT3X8 (S)		
△ 106	1-769-079-21	CORD, POWER (KR)		#3	7-685-880-09	SCREW +BVTT4X6 (S)		
△ 106	1-777-071-82	CORD, POWER (AEP,UK,E,TW)		#4	7-685-650-79	SCREW +BVTP3X16 TYPE2 IT-3		
△ 106	1-791-901-21	CORD, POWER (MX)		<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">           The components identified by mark △ or            dotted line with mark △ are critical for safety.            Replace only with part number specified.         </div>				
107	4-951-620-01	SCREW (2.6X8), +BVTP						
* 108	4-988-533-01	HOLDER, PWB						
△ F904	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) T6.3A/250V						

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

## 7-4. CD Mechanism Deck Section (CDM55C-K6A)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
501	1-683-960-11	MOTOR (TRAY) BOARD		513	4-227-236-01	CHASSIS	
502	4-224-894-11	TRAY(CDM55D)		514	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
503	4-220-229-01	LEVER (SW)		515	4-227-679-01	INSULATOR (213)	
504	4-220-239-01	SPRING, TORSION		516	4-229-806-01	SPRING (213), COMPRESSION	
505	4-220-237-01	GEAR (A)		517	1-823-059-11	WIRE (FLAT TYPE) (16 CORE)	
506	4-221-815-11	ROLLER		518	4-218-253-31	SCREW (M2.6), +BTTP	
507	4-221-816-11	BELT (CDM55)		519	4-925-315-31	DAMPER	
508	4-220-233-01	CAM (CDM55)		520	1-684-562-11	MOTOR BOARD	
509	4-220-234-01	PULLEY (LDG)		△521	8-820-020-02	OPTICAL PICK-UP BLOCK KSM-213DCP	
510	4-227-598-01	SPACER (55)		M103	A-4672-984-A	MOTOR (LD) ASSY	
511	4-220-238-01	GEAR (B)		The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.			
512	1-452-925-21	MAGNET ASSY		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
CDM
**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, -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.
- CAPACITORS:  
uF:  $\mu$ F

- RESISTORS  
All resistors are in ohms.  
METAL: metal-film resistor  
METAL OXIDE: Metal Oxide-film resistor  
F: nonflammable
- COILS  
uH:  $\mu$ H
- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA...:  $\mu$ A..., uPA...,  $\mu$ PA...,  
uPB...,  $\mu$ PB..., uPC...,  $\mu$ PC...,  
uPD...,  $\mu$ PD...

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	Remarks			Ref. No.	Part No.	Description	Remarks		
	1-683-962-11	BACK LIGHT BOARD	*****			C733	1-164-159-21	CERAMIC	0.1uF	50V	
		< CAPACITOR >				C734	1-164-159-21	CERAMIC	0.1uF	50V	
C609	1-104-665-11	ELECT	100uF	20.00%	10V	C735	1-162-286-21	CERAMIC	220PF	10.00%	50V
		< DIODE >				C736	1-136-171-00	FILM	0.33uF	5.00%	50V
D607	8-719-075-50	DIODE	SELS2B14C-TP6 (BACK LIGHT)			C737	1-162-306-11	CERAMIC	0.01uF	20.00%	16V
D608	8-719-075-50	DIODE	SELS2B14C-TP6 (BACK LIGHT)			C738	1-162-292-31	CERAMIC	680PF	10%	50V
D609	8-719-075-50	DIODE	SELS2B14C-TP6 (BACK LIGHT)			C739	1-162-600-11	CERAMIC	0.0047uF	10.00%	16V
		< RESISTOR >				C740	1-162-286-21	CERAMIC	220PF	10.00%	50V
R629	1-249-409-11	CARBON	220	5%	1/4W F	C741	1-126-959-11	ELECT	0.47uF	20.00%	50V
R630	1-249-409-11	CARBON	220	5%	1/4W F	C742	1-126-947-11	ELECT	47uF	20.00%	10V
R631	1-249-409-11	CARBON	220	5%	1/4W F	C743	1-126-960-11	ELECT	1uF	20.00%	50V
*****											
	A-4729-714-A	CDM BOARD, COMPLETE	*****			C744	1-127-870-21	CERAMIC	3300PF	10%	50V
		< CAPACITOR >				C745	1-162-194-31	CERAMIC	3.9PF	10.00%	50V
C704	1-164-159-21	CERAMIC	0.1uF		50V	C746	1-162-306-11	CERAMIC	0.01uF	20.00%	16V
C705	1-126-947-11	ELECT	47uF	20.00%	10V	C747	1-164-159-21	CERAMIC	0.1uF		50V
C706	1-164-159-21	CERAMIC	0.1uF		50V	C748	1-162-294-31	CERAMIC	0.001uF	10%	50V
C707	1-126-964-11	ELECT	10uF	20.00%	50V	C749	1-162-205-31	CERAMIC	18PF	5%	50V
C708	1-161-494-00	CERAMIC	0.022uF		25V	C750	1-126-963-11	ELECT	4.7uF	20.00%	50V
C709	1-104-665-11	ELECT	100uF	20.00%	10V	C751	1-164-159-21	CERAMIC	0.1uF		50V
C710	1-104-665-11	ELECT	100uF	20.00%	10V	C752	1-164-159-21	CERAMIC	0.1uF		50V
C711	1-162-306-11	CERAMIC	0.01uF	20.00%	16V	C753	1-164-159-21	CERAMIC	0.1uF		50V
C712	1-136-169-00	FILM	0.22uF	5.00%	50V	C754	1-162-286-21	CERAMIC	220PF	10.00%	50V
C713	1-164-159-21	CERAMIC	0.1uF		50V	C755	1-161-494-00	CERAMIC	0.022uF		25V
C714	1-126-947-11	ELECT	47uF	20.00%	10V	C756	1-126-947-11	ELECT	47uF	20.00%	10V
C715	1-162-294-31	CERAMIC	0.001uF	10%	50V	C757	1-161-494-00	CERAMIC	0.022uF		25V
C717	1-126-964-11	ELECT	10uF	20.00%	50V	C758	1-126-947-11	ELECT	47uF	20.00%	10V
C719	1-161-494-00	CERAMIC	0.022uF		25V	C759	1-164-159-21	CERAMIC	0.1uF		50V
C720	1-162-282-31	CERAMIC	100PF	10%	50V	C760	1-162-284-31	CERAMIC	150PF	10.00%	50V
C721	1-162-282-31	CERAMIC	100PF	10%	50V	C761	1-162-206-31	CERAMIC	20PF	5%	50V
C722	1-162-282-31	CERAMIC	100PF	10%	50V	C762	1-162-206-31	CERAMIC	20PF	5%	50V
C723	1-136-169-00	FILM	0.22uF	5.00%	50V	C763	1-126-947-11	ELECT	47uF	20.00%	10V
C724	1-130-489-00	MYLAR	0.033uF	5%	50V	C764	1-161-494-00	CERAMIC	0.022uF		25V
C725	1-162-288-31	CERAMIC	330PF	10%	50V	C765	1-162-280-31	CERAMIC	82PF	10%	50V
C726	1-136-171-00	FILM	0.33uF	5.00%	50V	C766	1-162-291-31	CERAMIC	560PF	10.00%	50V
C727	1-136-167-00	FILM	0.15uF	5.00%	50V	C767	1-162-282-31	CERAMIC	100PF	10%	50V
C728	1-127-869-21	CERAMIC	2700PF	10%	50V	C768	1-162-282-31	CERAMIC	100PF	10%	50V
C730	1-130-485-00	MYLAR	0.015uF	5%	50V	C769	1-162-282-31	CERAMIC	100PF	10%	50V
C731	1-130-486-00	MYLAR	0.018uF	10%	50V	C770	1-162-282-31	CERAMIC	100PF	10%	50V
C732	1-130-493-00	MYLAR	0.068uF	5%	50V	C771	1-126-964-11	ELECT	10uF	20.00%	50V
C733	1-164-159-21	CERAMIC	0.1uF		50V	C772	1-126-964-11	ELECT	10uF	20.00%	50V
C734	1-164-159-21	CERAMIC	0.1uF		50V	C773	1-127-866-21	CERAMIC	1500PF	10%	50V
C735	1-162-286-21	CERAMIC	220PF	10.00%	50V	C774	1-127-866-21	CERAMIC	1500PF	10%	50V
C736	1-162-282-31	CERAMIC	100PF	10%	50V	C775	1-162-282-31	CERAMIC	100PF	10%	50V
C737	1-162-282-31	CERAMIC	100PF	10%	50V	C776	1-162-282-31	CERAMIC	100PF	10%	50V
C738	1-162-282-31	CERAMIC	100PF	10%	50V	C777	1-126-947-11	ELECT	47uF	20.00%	10V
C739	1-162-282-31	CERAMIC	100PF	10%	50V	C778	1-162-282-31	CERAMIC	100PF	10%	50V
C740	1-162-282-31	CERAMIC	100PF	10%	50V	C779	1-126-926-11	ELECT	1000uF	20.00%	10V

**HCD-TB10****CDM**

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description		Remarks
C782	1-164-159-21	CERAMIC	0.1uF	50V		R715	1-249-430-11	CARBON	12K	5% 1/4W
C786	1-161-494-00	CERAMIC	0.022uF	25V		R716	1-249-439-11	CARBON	68K	5% 1/4W
C787	1-104-665-11	ELECT	100uF	20.00% 10V		R717	1-249-439-11	CARBON	68K	5% 1/4W
C788	1-162-290-31	CERAMIC	470PF	10% 50V		R718	1-249-436-11	CARBON	39K	5% 1/4W
C789	1-164-159-21	CERAMIC	0.1uF	50V		R719	1-247-843-11	CARBON	3.3K	5% 1/4W
C790	1-164-159-21	CERAMIC	0.1uF	50V		R720	1-249-434-11	CARBON	27K	5% 1/4W
C791	1-164-159-21	CERAMIC	0.1uF	50V		R721	1-249-414-11	CARBON	560	5% 1/4W F
C792	1-164-159-21	CERAMIC	0.1uF	50V		R722	1-249-433-11	CARBON	22K	5% 1/4W
C794	1-164-159-21	CERAMIC	0.1uF	50V		R724	1-249-433-11	CARBON	22K	5% 1/4W
		< CONNECTOR >				R725	1-249-430-11	CARBON	12K	5% 1/4W
CN731	1-779-553-11	CONNECTOR, FFC(LIF(NON-ZIF))16P				R727	1-249-427-11	CARBON	6.8K	5% 1/4W F
* CN732	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P				R728	1-249-435-11	CARBON	33K	5% 1/4W
CN733	1-784-776-11	CONNECTOR, FFC 15P				R729	1-249-419-11	CARBON	1.5K	5% 1/4W F
* CN734	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P				R731	1-249-432-11	CARBON	18K	5% 1/4W
CN735	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P				R732	1-247-885-00	CARBON	180K	5% 1/4W
		< DIODE >				R733	1-249-438-11	CARBON	56K	5% 1/4W
D731	8-719-991-33	DIODE 1SS133T-77				R734	1-249-434-11	CARBON	27K	5% 1/4W
D732	8-719-991-33	DIODE 1SS133T-77				R735	1-249-435-11	CARBON	33K	5% 1/4W
		< FERRITE BEAD >				R736	1-249-419-11	CARBON	1.5K	5% 1/4W F
FB751	1-410-397-21	FERRITE BEAD INDUCTOR				R737	1-249-417-11	CARBON	1K	5% 1/4W F
FB752	1-410-397-21	FERRITE BEAD INDUCTOR				R738	1-247-807-31	CARBON	100	5% 1/4W
FB753	1-410-397-21	FERRITE BEAD INDUCTOR				R739	1-249-419-11	CARBON	1.5K	5% 1/4W F
FB754	1-410-397-21	FERRITE BEAD INDUCTOR				R740	1-249-427-11	CARBON	6.8K	5% 1/4W F
FB755	1-410-397-21	FERRITE BEAD INDUCTOR				R741	1-249-424-11	CARBON	3.9K	5% 1/4W F
FB756	1-410-397-21	FERRITE BEAD INDUCTOR				R742	1-247-897-11	CARBON	560K	5% 1/4W
		< IC >				R743	1-247-897-11	CARBON	560K	5% 1/4W
		< COIL >				R744	1-249-428-11	CARBON	8.2K	5% 1/4W F
IC731	6-702-016-01	IC LA9242M				R745	1-249-431-11	CARBON	15K	5% 1/4W
IC751	6-700-355-01	IC LC78622NE				R746	1-249-411-11	CARBON	330	5% 1/4W
IC781	8-759-658-87	IC BA5810FP-E2				R747	1-249-433-11	CARBON	22K	5% 1/4W
		< TRANSISTOR >				R748	1-249-437-11	CARBON	47K	5% 1/4W
L701	1-410-509-11	INDUCTOR	10uH			R749	1-249-415-11	CARBON	680	5% 1/4W F
L702	1-410-509-11	INDUCTOR	10uH			R750	1-249-425-11	CARBON	4.7K	5% 1/4W F
L703	1-410-521-11	INDUCTOR	100uH			R751	1-249-415-11	CARBON	680	5% 1/4W F
L704	1-410-509-11	INDUCTOR	10uH			R752	1-249-434-11	CARBON	27K	5% 1/4W
L705	1-410-521-11	INDUCTOR	100uH			R753	1-249-418-11	CARBON	1.2K	5% 1/4W F
		< RESISTOR >				R754	1-249-435-11	CARBON	33K	5% 1/4W
Q731	8-729-116-57	TRANSISTOR	2SB1068TP-K			R755	1-249-442-11	CARBON	510	5% 1/4W
Q771	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			R756	1-247-903-00	CARBON	1M	5% 1/4W
Q772	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			R757	1-249-437-11	CARBON	47K	5% 1/4W
Q773	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			R758	1-249-421-11	CARBON	2.2K	5% 1/4W F
Q774	8-729-119-76	TRANSISTOR	2SA1175TP-HFE			R759	1-249-417-11	CARBON	1K	5% 1/4W F
Q775	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			R760	1-247-807-31	CARBON	100	5% 1/4W
		< RESISTOR >				R761	1-249-417-11	CARBON	1K	5% 1/4W F
R703	1-247-807-31	CARBON	100	5%	1/4W	R762	1-249-417-11	CARBON	1K	5% 1/4W F
R704	1-249-393-11	CARBON	10	5%	1/4W F	R763	1-249-417-11	CARBON	1K	5% 1/4W F
R705	1-247-807-31	CARBON	100	5%	1/4W	R764	1-249-417-11	CARBON	1K	5% 1/4W F
R706	1-247-807-31	CARBON	100	5%	1/4W	R765	1-249-417-11	CARBON	1K	5% 1/4W F
R707	1-247-807-31	CARBON	100	5%	1/4W	R766	1-247-807-31	CARBON	100	5% 1/4W
R708	1-249-441-11	CARBON	100K	5%	1/4W	R771	1-249-429-11	CARBON	10K	5% 1/4W
R709	1-249-427-11	CARBON	6.8K	5%	1/4W F	R772	1-249-429-11	CARBON	10K	5% 1/4W
R710	1-249-421-11	CARBON	2.2K	5%	1/4W F	R773	1-249-429-11	CARBON	10K	5% 1/4W
		< RESISTOR >				R774	1-249-429-11	CARBON	10K	5% 1/4W
		< RESISTOR >				R775	1-249-429-11	CARBON	10K	5% 1/4W
		< RESISTOR >				R776	1-249-429-11	CARBON	10K	5% 1/4W
		< RESISTOR >				R777	1-249-421-11	CARBON	2.2K	5% 1/4W F
		< RESISTOR >				R778	1-249-421-11	CARBON	2.2K	5% 1/4W F

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description		Remarks
R779	1-249-409-11	CARBON	220	5%	1/4W F	A-4729-701-A		MAIN BOARD, COMPLETE (AEP,UK)		
R780	1-249-425-11	CARBON	4.7K	5%	1/4W F	A-4730-327-A		MAIN BOARD, COMPLETE (E,MX,KR)		
R781	1-249-430-11	CARBON	12K	5%	1/4W	A-4730-329-A		MAIN BOARD, COMPLETE (TW)		
R782	1-249-429-11	CARBON	10K	5%	1/4W			*****		
R783	1-249-425-11	CARBON	4.7K	5%	1/4W F					
								< CAPACITOR >		
R784	1-247-807-31	CARBON	100	5%	1/4W	C101	1-162-306-11	CERAMIC	0.01uF	30.00% 16V (AEP,UK)
R785	1-247-889-00	CARBON	270K	5%	1/4W	C102	1-162-306-11	CERAMIC	0.01uF	30.00% 16V
R786	1-249-429-11	CARBON	10K	5%	1/4W	C103	1-162-306-11	CERAMIC	0.01uF	30.00% 16V
R787	1-249-429-11	CARBON	10K	5%	1/4W	C104	1-162-306-11	CERAMIC	0.01uF	30.00% 16V
R788	1-249-417-11	CARBON	1K	5%	1/4W F	C105	1-162-306-11	CERAMIC	0.01uF	30.00% 16V
R789	1-247-889-00	CARBON	270K	5%	1/4W	C106	1-162-306-11	CERAMIC	0.01uF	30.00% 16V
R790	1-249-425-11	CARBON	4.7K	5%	1/4W F	C107	1-126-947-11	ELECT	47uF	20.00% 16V
R791	1-249-422-11	CARBON	2.7K	5%	1/4W F	C108	1-127-880-21	CERAMIC	0.022uF	10% 50V
R792	1-249-421-11	CARBON	2.2K	5%	1/4W F	C109	1-162-306-11	CERAMIC	0.01uF	30.00% 16V
R793	1-247-807-31	CARBON	100	5%	1/4W	C110	1-162-306-11	CERAMIC	0.01uF	30.00% 16V
R794	1-249-437-11	CARBON	47K	5%	1/4W	C111	1-162-306-11	CERAMIC	0.01uF	30.00% 16V
R795	1-249-437-11	CARBON	47K	5%	1/4W	C112	1-126-963-11	ELECT	4.7uF	20.00% 50V
R796	1-249-437-11	CARBON	47K	5%	1/4W	C113	1-126-963-11	ELECT	4.7uF	20.00% 50V
R797	1-249-437-11	CARBON	47K	5%	1/4W	C114	1-126-963-11	ELECT	4.7uF	20.00% 50V
R798	1-249-441-11	CARBON	100K	5%	1/4W	C117	1-127-880-21	CERAMIC	0.022uF	10% 50V
R799	1-249-441-11	CARBON	100K	5%	1/4W	C118	1-126-947-11	ELECT	47uF	20.00% 16V
R801	1-249-427-11	CARBON	6.8K	5%	1/4W F	C119	1-162-600-11	CERAMIC	0.0047uF	10.00% 16V
R802	1-249-433-11	CARBON	22K	5%	1/4W	C120	1-126-964-11	ELECT	10uF	20.00% 50V
R804	1-249-433-11	CARBON	22K	5%	1/4W	C121	1-126-964-11	ELECT	10uF	20.00% 50V
						C122	1-126-963-11	ELECT	4.7uF	20.00% 50V
* TP731	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P				C123	1-162-306-11	CERAMIC	0.01uF	30.00% 16V
						C124	1-130-485-00	MYLAR	0.015uF	5% 50V
						C125	1-164-159-21	CERAMIC	0.1uF	50V
X701	1-579-280-11	VIBRATOR, CRYSTAL				C126	1-162-292-31	CERAMIC	680PF	10% 50V
						C127	1-162-306-11	CERAMIC	0.01uF	30.00% 16V
						C128	1-126-960-11	ELECT	1uF	20.00% 50V
						C130	1-126-962-11	ELECT	3.3uF	20.00% 50V
						C131	1-126-959-11	ELECT	0.47uF	20.00% 50V
						C132	1-126-960-11	ELECT	1uF	20.00% 50V
						C133	1-130-487-00	MYLAR	0.022uF	5% 50V
C313	1-164-159-21	CERAMIC	0.1uF		50V					(AEP,UK)
C314	1-162-294-31	CERAMIC	0.001uF	10%	50V					
C315	1-162-294-31	CERAMIC	0.001uF	10%	50V					
						C134	1-130-487-00	MYLAR	0.022uF	5% 50V
						C134	1-130-485-00	MYLAR	0.015uF	5% 50V
										(AEP,UK)
FB301	1-410-397-21	FERRITE BEAD INDUCTOR				C134	1-130-485-00	MYLAR	0.015uF	5% 50V
FB302	1-410-397-21	FERRITE BEAD INDUCTOR								(E,MX,TW,KR)
FB303	1-410-397-21	FERRITE BEAD INDUCTOR				C137	1-162-306-11	CERAMIC	0.01uF	30.00% 16V
FB304	1-410-397-21	FERRITE BEAD INDUCTOR				C138	1-126-947-11	ELECT	47uF	20.00% 16V
						C139	1-162-198-31	CERAMIC	8.2PF	10.00% 50V
						C140	1-126-959-11	ELECT	0.47uF	20.00% 50V
JK302	1-691-293-21	JACK (PHONES)				C141	1-162-306-11	CERAMIC	0.01uF	30.00% 16V
						C142	1-162-206-31	CERAMIC	20PF	5% 50V
						C143	1-162-206-31	CERAMIC	20PF	5% 50V
						C144	1-162-211-31	CERAMIC	33PF	5% 50V
										(AEP,UK)
						C147	1-126-947-11	ELECT	47uF	20.00% 16V
						C149	1-162-306-11	CERAMIC	0.01uF	30.00% 16V
CN608	1-784-761-11	CONNECTOR, FFC 39P				C150	1-126-961-11	ELECT	2.2uF	20.00% 50V
						C151	1-126-947-11	ELECT	47uF	20.00% 16V
						C152	1-162-306-11	CERAMIC	0.01uF	30.00% 16V
LCD601	1-804-615-11	DISPLAY PANEL, LIQUID CRYSTAL				C153	1-162-294-31	CERAMIC	0.001uF	10% 50V
						C155	1-162-306-11	CERAMIC	0.01uF	30.00% 16V

**HCD-TB10****MAIN**

Ref. No.	Part No.	Description	Value	Tolerance	Voltage	Remarks	Ref. No.	Part No.	Description	Value	Tolerance	Voltage	Remarks
C157	1-162-306-11	CERAMIC	0.01uF	30.00%	16V		C235	1-126-963-11	ELECT	4.7uF	20.00%	50V	
C158	1-162-211-31	CERAMIC	33PF	5%	50V	(AEP,UK)	C236	1-128-551-11	ELECT	22uF	20.00%	25V	
C159	1-162-205-31	CERAMIC	18PF	5%	50V		C241	1-126-963-11	ELECT	4.7uF	20.00%	50V	
C171	1-126-947-11	ELECT	47uF	20.00%	16V	(AEP,UK)	C250	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C172	1-164-159-21	CERAMIC	0.1uF		50V	(AEP,UK)	C251	1-130-485-00	MYLAR	0.015uF	5%	50V	
C173	1-162-286-21	CERAMIC	220PF	10.00%	50V	(AEP,UK)	C252	1-130-485-00	MYLAR	0.015uF	5%	50V	
C175	1-162-288-31	CERAMIC	330PF	10%	50V	(AEP,UK)	C253	1-130-487-00	MYLAR	0.022uF	5%	50V	
C176	1-162-306-11	CERAMIC	0.01uF	30.00%	16V	(AEP,UK)	C254	1-126-947-11	ELECT	47uF	20.00%	25V	
C179	1-162-306-11	CERAMIC	0.01uF	30.00%	16V	(AEP,UK)	C301	1-126-961-11	ELECT	2.2uF	20.00%	50V	
C180	1-162-306-11	CERAMIC	0.01uF	30.00%	16V	(AEP,UK)	C302	1-126-961-11	ELECT	2.2uF	20.00%	50V	
C181	1-126-961-11	ELECT	2.2uF	20.00%	50V	(AEP,UK)	C303	1-126-961-11	ELECT	2.2uF	20.00%	50V	
C182	1-128-806-21	CERAMIC	56PF	5%	50V	(AEP,UK)	C304	1-126-961-11	ELECT	2.2uF	20.00%	50V	
C183	1-128-806-21	CERAMIC	56PF	5%	50V	(AEP,UK)	C307	1-126-964-11	ELECT	10uF	20.00%	50V	
C184	1-126-961-11	ELECT	2.2uF	20.00%	50V	(AEP,UK)	C308	1-126-964-11	ELECT	10uF	20.00%	50V	
C185	1-162-291-31	CERAMIC	560PF	10.00%	50V	(AEP,UK)	C309	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C186	1-126-964-11	ELECT	10uF	20.00%	50V	(AEP,UK)	C310	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C187	1-162-306-11	CERAMIC	0.01uF	30.00%	16V	(AEP,UK)	C311	1-126-961-11	ELECT	2.2uF	20.00%	50V	
C201	1-162-290-31	CERAMIC	470PF	10%	50V		C312	1-126-961-11	ELECT	2.2uF	20.00%	50V	
C202	1-162-290-31	CERAMIC	470PF	10%	50V		C313	1-126-964-11	ELECT	10uF	20.00%	50V	
C203	1-126-947-11	ELECT	47uF	20.00%	25V		C314	1-126-964-11	ELECT	10uF	20.00%	50V	
C204	1-126-947-11	ELECT	47uF	20.00%	25V		C318	1-126-935-11	ELECT	470uF	20.00%	10V	
C205	1-130-485-00	MYLAR	0.015uF	5%	50V		C319	1-164-159-21	CERAMIC	0.1uF		50V	
C206	1-130-485-00	MYLAR	0.015uF	5%	50V		C320	1-162-286-21	CERAMIC	220PF	10.00%	50V	
C209	1-126-960-11	ELECT	1uF	20.00%	50V		C321	1-162-286-21	CERAMIC	220PF	10.00%	50V	
C210	1-126-960-11	ELECT	1uF	20.00%	50V		C322	1-126-947-11	ELECT	47uF	20.00%	25V	
C211	1-126-961-11	ELECT	2.2uF	20.00%	50V		C323	1-126-964-11	ELECT	10uF	20.00%	50V	
C212	1-126-961-11	ELECT	2.2uF	20.00%	50V		C324	1-126-964-11	ELECT	10uF	20.00%	50V	
C213	1-126-960-11	ELECT	1uF	20.00%	50V		C325	1-136-169-00	FILM	0.22uF	5.00%	50V	
C214	1-126-960-11	ELECT	1uF	20.00%	50V		C326	1-136-169-00	FILM	0.22uF	5.00%	50V	
C215	1-127-868-21	CERAMIC	2200PF	10%	50V		C327	1-136-169-00	FILM	0.22uF	5.00%	50V	
C216	1-127-868-21	CERAMIC	2200PF	10%	50V		C328	1-136-169-00	FILM	0.22uF	5.00%	50V	
C217	1-126-961-11	ELECT	2.2uF	20.00%	50V		C329	1-130-475-00	MYLAR	0.0022uF	5%	50V	
C218	1-126-961-11	ELECT	2.2uF	20.00%	50V		C330	1-130-475-00	MYLAR	0.0022uF	5%	50V	
C219	1-126-961-11	ELECT	2.2uF	20.00%	50V		C331	1-130-475-00	MYLAR	0.0022uF	5%	50V	
C220	1-126-961-11	ELECT	2.2uF	20.00%	50V		C332	1-164-159-21	CERAMIC	0.1uF		50V	
C221	1-130-491-00	MYLAR	0.047uF	5%	50V		C333	1-136-165-00	FILM	0.1uF	5.00%	50V	
C222	1-130-491-00	MYLAR	0.047uF	5%	50V		C334	1-136-165-00	FILM	0.1uF	5.00%	50V	
C225	1-127-868-21	CERAMIC	2200PF	10%	50V		C335	1-136-165-00	FILM	0.1uF	5.00%	50V	
C226	1-127-868-21	CERAMIC	2200PF	10%	50V		C336	1-136-165-00	FILM	0.1uF	5.00%	50V	
C227	1-126-961-11	ELECT	2.2uF	20.00%	50V		C337	1-164-159-21	CERAMIC	0.1uF		50V	
C228	1-126-961-11	ELECT	2.2uF	20.00%	50V		C338	1-126-934-11	ELECT	220uF	20.00%	10V	
C229	1-126-964-11	ELECT	10uF	20.00%	50V		C339	1-164-159-21	CERAMIC	0.1uF		50V	
C230	1-126-933-11	ELECT	100uF	20.00%	16V		C340	1-126-964-11	ELECT	10uF	20.00%	50V	
C231	1-126-960-11	ELECT	1uF	20.00%	50V		C341	1-126-935-11	ELECT	470uF	20.00%	10V	
C232	1-126-963-11	ELECT	4.7uF	20.00%	50V		C342	1-161-494-00	CERAMIC	0.022uF		25V	
							C343	1-164-159-21	CERAMIC	0.1uF		50V	
							C344	1-164-159-21	CERAMIC	0.1uF		50V	
							C401	1-136-165-00	FILM	0.1uF	5.00%	50V	
							C402	1-136-165-00	FILM	0.1uF	5.00%	50V	
							C403	1-136-165-00	FILM	0.1uF	5.00%	50V	
							C404	1-136-165-00	FILM	0.1uF	5.00%	50V	
							C405	1-126-768-11	ELECT	2200uF	20.00%	16V	
							C406	1-126-944-11	ELECT	3300uF	20.00%	25V	
							C407	1-126-964-11	ELECT	10uF	20.00%	50V	
							C408	1-126-767-11	ELECT	1000uF	20.00%	16V	
							C409	1-161-494-00	CERAMIC	0.022uF		25V	
							C410	1-126-916-11	ELECT	1000uF	20.00%	6.3V	

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Ref. No.	Part No.	Description		Remarks	Ref. No.	Part No.	Description	Remarks
C411	1-126-767-11	ELECT	1000uF	20.00% 16V	D416	8-719-991-33	DIODE 1SS133T-77	
C412	1-126-916-11	ELECT	1000uF	20.00% 6.3V	D418	8-719-991-33	DIODE 1SS133T-77	
C413	1-104-665-11	ELECT	100uF	20.00% 10V				< FRONT END >
C414	1-126-935-11	ELECT	470uF	20.00% 10V	FE102	1-693-496-11	FRONT END (4 GANG) (AEP,UK)	
C415	1-164-159-21	CERAMIC	0.1uF	50V	FE102	1-693-477-12	FRONT END (3 GANGS) (E,MX,TW,KR)	
C419	1-104-665-11	ELECT	100uF	20.00% 25V				< IC >
C420	1-126-961-11	ELECT	2.2uF	20.00% 50V	IC101	8-759-828-33	IC LA1845	
C421	1-126-963-11	ELECT	4.7uF	20.00% 50V	IC102	8-759-590-13	IC LC72131D	
C422	1-126-963-11	ELECT	4.7uF	20.00% 50V	IC103	8-759-541-48	IC BU1924 (AEP,UK)	
C428	1-126-964-11	ELECT	10uF	20.00% 50V	IC201	6-701-655-01	IC HA12236F	
C429	1-136-165-00	FILM	0.1uF	5.00% 50V (AEP,UK)	IC301	6-701-758-01	IC BD3873FS	
C430	1-136-165-00	FILM	0.1uF	5.00% 50V (AEP,UK)	IC302	8-759-636-55	IC M5218AFP-TE1	
C432	1-136-165-00	FILM	0.1uF	5.00% 50V (AEP,UK)	IC401	8-759-604-32	IC M5F7810L	
C433	1-136-165-00	FILM	0.1uF	5.00% 50V (AEP,UK)	IC402	8-759-604-32	IC M5F7810L	
C470	1-162-306-11	CERAMIC	0.01uF	30.00% 16V	IC403	8-759-039-69	IC uPC7805AHF	
C471	1-162-306-11	CERAMIC	0.01uF	30.00% 16V				< IFT >
C484	1-109-953-11	ELECT	2.2uF	20.00% 50V	IFT101	1-435-848-12	TRANSFORMER,IF(CERAMIC FILTER)	
C485	1-107-717-11	ELECT	47uF	20.00% 50V				< JACK >
< FILTER >								
CF101	1-795-426-11	FILTER, CERAMIC (AEP,UK)			JK101	1-694-555-12	TERMINAL BOARD (4P) (ANTENNA) (E,MX,TW,KR)	
CF101	1-760-023-11	FILTER, CERAMIC (E,MX,TW,KR)			JK101	1-694-556-22	TERMINAL BOARD (ANT.PAL) (AEP,UK)	
CF102	1-795-426-11	FILTER, CERAMIC (AEP,UK)			JK301	1-793-987-11	JACK, PIN 2P (MD)	
CF102	1-760-023-11	FILTER, CERAMIC (E,MX,TW,KR)			JK401	1-694-635-12	TERMINAL BOARD (4P) (SPEAKER)	
< CONNECTOR >								
* CN304	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			< COIL >			
CN401	1-564-509-11	PLUG, CONNECTOR 6P			L101	1-414-186-31	INDUCTOR	33uH (AEP,UK)
CN402	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P			L109	1-410-393-11	INDUCTOR CHIP	100uH (AEP,UK)
CN403	1-784-791-11	CONNECTOR, FFC 30P			L201	1-437-220-11	TRANSFORMER, BIAS OSCILLATION	
CN404	1-568-828-11	CONNECTOR, FFC 9P			L401	1-422-009-13	COIL, AIR-CORE	
< DIODE >								
D105	8-719-991-33	DIODE 1SS133T-77			L402	1-422-009-13	COIL, AIR-CORE	
D107	8-719-991-33	DIODE 1SS133T-77 (AEP,UK)			L406	1-414-189-31	INDUCTOR	100uH
D111	8-719-991-33	DIODE 1SS133T-77						< IC >
D112	8-719-991-33	DIODE 1SS133T-77			PH401	8-749-923-04	IC TOTX178A	
D201	8-719-991-33	DIODE 1SS133T-77			< TRANSISTOR >			
D301	8-719-929-15	DIODE MTZJ-9.1B			Q101	8-729-015-41	TRANSISTOR	2SC1675-T1
D401	8-719-200-82	DIODE 11ES2-TB5			Q102	8-729-422-57	TRANSISTOR	BN1A4M-TP
D402	8-719-200-82	DIODE 11ES2-TB5			Q105	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
D403	8-719-200-82	DIODE 11ES2-TB5			Q106	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
D404	8-719-200-82	DIODE 11ES2-TB5			Q107	8-729-015-41	TRANSISTOR	2SC1675-T1 (AEP,UK)
D405	8-719-200-82	DIODE 11ES2-TB5			Q201	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
D406	8-719-200-82	DIODE 11ES2-TB5			Q202	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
D407	8-719-200-82	DIODE 11ES2-TB5			Q203	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
D408	8-719-200-82	DIODE 11ES2-TB5			Q204	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
D409	8-719-200-82	DIODE 11ES2-TB5			Q205	8-729-119-76	TRANSISTOR	2SA1175TP-HFE
D410	8-719-200-82	DIODE 11ES2-TB5			Q206	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
D411	8-719-200-82	DIODE 11ES2-TB5			Q207	8-729-140-04	TRANSISTOR	2SB1116A-TP-LK
D412	8-719-200-82	DIODE 11ES2-TB5			Q208	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
D413	8-719-200-82	DIODE 11ES2-TB5			Q209	8-729-142-46	TRANSISTOR	2SC2001TP-LK
D414	8-719-991-33	DIODE 1SS133T-77			Q210	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
D415	8-719-991-33	DIODE 1SS133T-77			Q303	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
					Q304	8-729-119-78	TRANSISTOR	2SC2785TP-HFE

**HCD-TB10****MAIN**

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
Q305	8-729-119-78	TRANSISTOR	2SC2785TP-HFE	R135	1-247-843-11	CARBON	3.3K
Q306	8-729-119-78	TRANSISTOR	2SC2785TP-HFE	R136	1-249-429-11	CARBON	10K
Q309	8-729-119-78	TRANSISTOR	2SC2785TP-HFE	R137	1-249-429-11	CARBON	10K
Q401	8-729-116-02	TRANSISTOR	BA1A4M-TP	R138	1-249-429-11	CARBON	10K
Q402	8-729-049-79	TRANSISTOR	RT1P137S-TP	R139	1-249-417-11	CARBON	1K
Q403	8-729-140-04	TRANSISTOR	2SB1116A-TP-LK	R140	1-249-417-11	CARBON	1K
Q404	8-729-116-02	TRANSISTOR	BA1A4M-TP	R141	1-249-439-11	CARBON	68K
Q405	8-729-140-04	TRANSISTOR	2SB1116A-TP-LK	R142	1-249-429-11	CARBON	10K
Q406	8-729-116-02	TRANSISTOR	BA1A4M-TP	R144	1-247-843-11	CARBON	3.3K
Q407	8-729-900-63	TRANSISTOR	BN1F4M-TP	R145	1-249-435-11	CARBON	33K
Q408	8-729-116-02	TRANSISTOR	BA1A4M-TP	R149	1-249-437-11	CARBON	47K
Q409	8-729-119-78	TRANSISTOR	2SC2785TP-HFE	R150	1-249-437-11	CARBON	47K
Q411	8-729-119-76	TRANSISTOR	2SA1175TP-HFE	R151	1-249-429-11	CARBON	10K
Q412	8-729-119-78	TRANSISTOR	2SC2785TP-HFE	R152	1-249-429-11	CARBON	10K
Q413	8-729-119-78	TRANSISTOR	2SC2785TP-HFE	R171	1-247-807-31	CARBON	100
Q414	8-729-119-78	TRANSISTOR	2SC2785TP-HFE	R172	1-249-437-11	CARBON	47K
Q415	8-729-119-78	TRANSISTOR	2SC2785TP-HFE	R173	1-249-433-11	CARBON	22K
Q417	8-729-900-63	TRANSISTOR	BN1F4M-TP	R174	1-249-417-11	CARBON	1K
Q418	8-729-116-02	TRANSISTOR	BA1A4M-TP	R175	1-249-413-11	CARBON	470
Q421	8-729-119-78	TRANSISTOR	2SC2785TP-HFE	R177	1-249-401-11	CARBON	47
Q422	8-729-119-78	TRANSISTOR	2SC2785TP-HFE	R181	1-249-425-11	CARBON	4.7K
< RESISTOR >				R183	1-249-409-11	CARBON	220
R8	1-249-425-11	CARBON	4.7K	R105	1-249-417-11	CARBON	8.2K
			5%	R106	1-249-401-11	CARBON	8.2K
R101	1-249-407-11	CARBON	150	R107	1-249-401-11	CARBON	4.7K
R102	1-249-415-11	CARBON	680	R108	1-249-404-00	CARBON	4.7K
R103	1-249-415-11	CARBON	680	R109	1-249-429-11	CARBON	10K
R104	1-249-411-11	CARBON	330	R111	1-249-434-11	CARBON	10K
			5%	R112	1-249-433-11	CARBON	10K
R111	1-249-441-11	CARBON	27K	R113	1-249-425-11	CARBON	10K
R112	1-249-433-11	CARBON	22K	R114	1-249-431-11	CARBON	4.7K
R113	1-249-425-11	CARBON	4.7K	R115	1-249-429-11	CARBON	4.7K
R114	1-249-431-11	CARBON	15K	R116	1-249-441-11	CARBON	100K
R115	1-249-429-11	CARBON	10K	R117	1-247-807-31	CARBON	100
			5%	R118	1-249-425-11	CARBON	4.7K
R116	1-249-441-11	CARBON	100K	R119	1-247-843-11	CARBON	3.3K
R117	1-247-807-31	CARBON	100	R120	1-249-415-11	CARBON	680
R118	1-249-425-11	CARBON	4.7K	R121	1-249-415-11	CARBON	4.7K
R119	1-247-843-11	CARBON	3.3K	R122	1-249-425-11	CARBON	4.7K
R120	1-247-843-11	CARBON	3.3K	R123	1-249-425-11	CARBON	4.7K
R121	1-249-415-11	CARBON	680	R124	1-249-429-11	CARBON	10K
			5%	R125	1-249-429-11	CARBON	10K
R122	1-249-425-11	CARBON	4.7K	R126	1-247-843-11	CARBON	3.3K
R123	1-249-425-11	CARBON	4.7K	R127	1-247-843-11	CARBON	3.3K
R124	1-249-429-11	CARBON	10K	R128	1-249-425-11	CARBON	4.7K
R125	1-249-429-11	CARBON	10K				(E,MX,TW,KR)
R126	1-247-843-11	CARBON	3.3K				
R127	1-247-843-11	CARBON	3.3K	R128	1-249-425-11	CARBON	4.7K
R128	1-249-425-11	CARBON	4.7K				
			5%				
R129	1-247-807-31	CARBON	100	R129	1-247-807-31	CARBON	100
R130	1-249-425-11	CARBON	4.7K	R130	1-249-425-11	CARBON	4.7K
R131	1-247-807-31	CARBON	100	R131	1-247-807-31	CARBON	100
			5%				
R132	1-249-417-11	CARBON	1K	R132	1-249-417-11	CARBON	1K
R133	1-249-417-11	CARBON	1K	R133	1-249-417-11	CARBON	1K
R134	1-249-417-11	CARBON	1K	R134	1-249-417-11	CARBON	1K

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

MAIN

Ref. No.	Part No.	Description		Remarks	Ref. No.	Part No.	Description		Remarks		
R231	1-249-437-11	CARBON	47K	5%	1/4W	R348	1-249-421-11	CARBON	2.2K	5%	1/4W F
R232	1-249-409-11	CARBON	220	5%	1/4W F	R349	1-249-425-11	CARBON	4.7K	5%	1/4W F
R233	1-249-437-11	CARBON	47K	5%	1/4W	R350	1-249-425-11	CARBON	4.7K	5%	1/4W F
R234	1-249-437-11	CARBON	47K	5%	1/4W	R352	1-249-417-11	CARBON	1K	5%	1/4W F
R236	1-249-417-11	CARBON	1K	5%	1/4W F	R353	1-249-418-11	CARBON	1.2K	5%	1/4W F
R237	1-249-429-11	CARBON	10K	5%	1/4W	R354	1-249-413-11	CARBON	470	5%	1/4W F
R238	1-249-429-11	CARBON	10K	5%	1/4W	R401	1-249-421-11	CARBON	2.2K	5%	1/4W F
R239	1-249-434-11	CARBON	27K	5%	1/4W	R402	1-260-076-11	CARBON	10	5%	1/2W
R240	1-249-409-11	CARBON	220	5%	1/4W F	R403	1-260-076-11	CARBON	10	5%	1/2W
R241	1-249-417-11	CARBON	1K	5%	1/4W F	R404	1-260-076-11	CARBON	10	5%	1/2W
R242	1-249-425-11	CARBON	4.7K	5%	1/4W F	R405	1-260-076-11	CARBON	10	5%	1/2W
R243	1-249-425-11	CARBON	4.7K	5%	1/4W F	R406	1-249-441-11	CARBON	100K	5%	1/4W
R244	1-249-417-11	CARBON	1K	5%	1/4W F	R407	1-249-437-11	CARBON	47K	5%	1/4W
R245	1-249-425-11	CARBON	4.7K	5%	1/4W F	R408	1-249-438-11	CARBON	56K	5%	1/4W
R246	1-249-425-11	CARBON	4.7K	5%	1/4W F	R409	1-249-433-11	CARBON	22K	5%	1/4W
R247	1-249-393-11	CARBON	10	5%	1/4W F	R410	1-215-868-00	METAL OXIDE	680	5%	1W
R248	1-249-429-11	CARBON	10K	5%	1/4W	R411	1-215-868-00	METAL OXIDE	680	5%	1W
R249	1-249-429-11	CARBON	10K	5%	1/4W	R412	1-260-087-11	CARBON	100	5%	1/2W
R301	1-249-429-11	CARBON	10K	5%	1/4W	R413	1-249-417-11	CARBON	1K	5%	1/4W F
R302	1-249-429-11	CARBON	10K	5%	1/4W	R414	1-249-415-11	CARBON	680	5%	1/4W F
R303	1-249-422-11	CARBON	2.7K	5%	1/4W F	R415	1-249-415-11	CARBON	680	5%	1/4W F
R304	1-249-422-11	CARBON	2.7K	5%	1/4W F	R418	1-249-435-11	CARBON	33K	5%	1/4W
R305	1-249-437-11	CARBON	47K	5%	1/4W	R419	1-249-433-11	CARBON	22K	5%	1/4W
R306	1-249-437-11	CARBON	47K	5%	1/4W	R420	1-249-429-11	CARBON	10K	5%	1/4W
R307	1-249-421-11	CARBON	2.2K	5%	1/4W F	R421	1-249-428-11	CARBON	8.2K	5%	1/4W F
R308	1-249-421-11	CARBON	2.2K	5%	1/4W F	R422	1-249-436-11	CARBON	39K	5%	1/4W
R309	1-249-433-11	CARBON	22K	5%	1/4W	R423	1-249-429-11	CARBON	10K	5%	1/4W
R310	1-249-433-11	CARBON	22K	5%	1/4W	R424	1-249-417-11	CARBON	1K	5%	1/4W F
R311	1-249-421-11	CARBON	2.2K	5%	1/4W F	R425	1-249-425-11	CARBON	4.7K	5%	1/4W F
R312	1-249-421-11	CARBON	2.2K	5%	1/4W F	R426	1-249-433-11	CARBON	22K	5%	1/4W
R314	1-249-420-11	CARBON	1.8K	5%	1/4W F	R427	1-249-426-11	CARBON	5.6K	5%	1/4W
R319	1-249-425-11	CARBON	4.7K	5%	1/4W F	R428	1-249-437-11	CARBON	47K	5%	1/4W
R320	1-249-425-11	CARBON	4.7K	5%	1/4W F	R429	1-249-428-11	CARBON	8.2K	5%	1/4W F
R321	1-249-441-11	CARBON	100K	5%	1/4W	R430	1-249-440-11	CARBON	82K	5%	1/4W
R322	1-249-441-11	CARBON	100K	5%	1/4W	R431	1-249-428-11	CARBON	8.2K	5%	1/4W F
R323	1-249-419-11	CARBON	1.5K	5%	1/4W F	R432	1-249-436-11	CARBON	39K	5%	1/4W
R324	1-249-419-11	CARBON	1.5K	5%	1/4W F	R433	1-249-428-11	CARBON	8.2K	5%	1/4W F
R325	1-249-425-11	CARBON	4.7K	5%	1/4W F	R434	1-249-432-11	CARBON	18K	5%	1/4W
R326	1-249-425-11	CARBON	4.7K	5%	1/4W F	R435	1-249-417-11	CARBON	1K	5%	1/4W F
R327	1-249-426-11	CARBON	5.6K	5%	1/4W	R436	1-249-417-11	CARBON	1K	5%	1/4W F
R328	1-249-426-11	CARBON	5.6K	5%	1/4W	R437	1-249-426-11	CARBON	5.6K	5%	1/4W
R329	1-247-893-11	CARBON	390K	5%	1/4W	R438	1-249-417-11	CARBON	1K	5%	1/4W F
R330	1-247-893-11	CARBON	390K	5%	1/4W	R439	1-249-433-11	CARBON	22K	5%	1/4W
R331	1-247-791-91	CARBON	22	5%	1/4W	R440	1-249-433-11	CARBON	22K	5%	1/4W
R332	1-247-807-31	CARBON	100	5%	1/4W	R441	1-249-433-11	CARBON	22K	5%	1/4W
R333	1-247-807-31	CARBON	100	5%	1/4W	R442	1-249-441-11	CARBON	100K	5%	1/4W
R334	1-247-807-31	CARBON	100	5%	1/4W	R443	1-247-903-00	CARBON	1M	5%	1/4W
R335	1-249-437-11	CARBON	47K	5%	1/4W	R444	1-249-432-11	CARBON	18K	5%	1/4W
R336	1-249-437-11	CARBON	47K	5%	1/4W	R445	1-249-428-11	CARBON	8.2K	5%	1/4W F
R337	1-249-441-11	CARBON	100K	5%	1/4W	R446	1-249-428-11	CARBON	8.2K	5%	1/4W F
R338	1-249-441-11	CARBON	100K	5%	1/4W	R447	1-249-440-11	CARBON	82K	5%	1/4W
R339	1-249-437-11	CARBON	47K	5%	1/4W						<COMPOSITIONCIRCUIT BLOCK >
R340	1-249-437-11	CARBON	47K	5%	1/4W	RB101	1-234-575-11	ENCAPSULATED COMPONENT			
R343	1-247-895-91	CARBON	470K	5%	1/4W						< RELAY >
R344	1-247-895-91	CARBON	470K	5%	1/4W	RY401	1-755-373-11	RELAY			

**HCD-TB10**

<b>MAIN</b>	<b>MOTOR</b>	<b>MOTOR (TRAY)</b>	<b>PANEL</b>
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< ADJ >		* CN611	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P	
SFR101	1-241-765-11	RES, ADJ, CARBON 22K				< DIODE >	
		< SWITCH >		D601	8-719-991-33	DIODE 1SS133T-77	
* SW301	1-537-738-21	TERMINAL, EARTH		D602	8-719-991-33	DIODE 1SS133T-77	
SW301	1-771-264-11	SWITCH, PUSH(DETECTION)(1 KEY)		D603	8-719-991-33	DIODE 1SS133T-77	
		< TRANSFORMER >		D604	8-719-991-33	DIODE 1SS133T-77	
T101	1-435-792-11	TRANSFORMER, DISCRIMINATOR		D605	8-719-991-33	DIODE 1SS133T-77	
		< VIBRATOR >		D606	8-719-991-33	DIODE 1SS133T-77	
X101	1-760-549-31	VIBRATOR, CRYSTAL 4.5MHz		D607	8-719-991-33	DIODE 1SS133T-77	
X102	1-579-900-21	VIBRATOR, CRYSTAL 4.332Mz (AEP,UK)		D608	8-719-991-33	DIODE 1SS133T-77	
*****							
	1-684-562-11	MOTOR BOARD				< FERRITE BEAD >	
		*****		FB601	1-412-473-21	INDUCTOR	0UH
		< CONNECTOR >		FB605	1-412-473-21	INDUCTOR	0UH
CN01	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P		FB606	1-412-473-21	INDUCTOR	0UH
		< SWITCH >				< IC >	
S01	1-771-821-11	SWITCH, PUSH (1 KEY) (LIMIT SW)		IC601	6-801-218-01	IC LC877348A-5Z50E	
*****							
	1-683-960-11	MOTOR(TRAY) BOARD		IC602	8-759-635-63	IC M51943BSL-TP	
		*****				< LED >	
S701	1-786-203-11	SWITCH, LEVER (SLIDE) (OPEN/CLOSE)		LED601	8-719-058-04	DIODE SEL5223S-TP15 (POWER SAVE)	
*****							
A-4729-704-A		PANEL BOARD, COMPLETE		LED602	8-719-058-04	DIODE SEL5223S-TP15 (REC/PAUSE)	
		*****				< TRANSISTOR >	
		< CAPACITOR >		Q601	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
C601	1-126-916-11	ELECT	1000uF	Q602	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
C602	1-161-494-00	CERAMIC	0.022uF				
C603	1-126-964-11	ELECT	10uF				
C604	1-161-494-00	CERAMIC	0.022uF				
C605	1-126-947-11	ELECT	47uF				
C606	1-162-294-31	CERAMIC	0.001uF				
C607	1-162-306-11	CERAMIC	0.01uF				
C608	1-162-306-11	CERAMIC	0.01uF				
C610	1-164-159-21	CERAMIC	0.1uF				
C611	1-164-159-21	CERAMIC	0.1uF				
C612	1-136-165-00	FILM	0.1uF				
C613	1-162-205-31	CERAMIC	18PF				
C614	1-162-203-31	CERAMIC	15PF				
C615	1-128-551-11	ELECT	22uF				
C616	1-164-159-21	CERAMIC	0.1uF				
C618	1-162-306-11	CERAMIC	0.01uF				
C619	1-164-159-21	CERAMIC	0.1uF				
C620	1-164-159-21	CERAMIC	0.1uF				
		< CONNECTOR >					
CN602	1-784-737-11	CONNECTOR, FFC 15P					
CN603	1-784-752-11	CONNECTOR, FFC 30P					
CN607	1-784-761-11	CONNECTOR, FFC 39P					
				R602	1-249-429-11	CARBON	10K 5% 1/4W
				R603	1-249-441-11	CARBON	100K 5% 1/4W
				R604	1-249-429-11	CARBON	10K 5% 1/4W
				R605	1-249-415-11	CARBON	680 5% 1/4W F
				R606	1-247-891-00	CARBON	330K 5% 1/4W
				R607	1-259-884-11	CARBON	4.7M 5% 1/4W
				R609	1-249-431-11	CARBON	15K 5% 1/4W
				R610	1-249-431-11	CARBON	15K 5% 1/4W
				R611	1-249-413-11	CARBON	470 5% 1/4W F
				R612	1-249-415-11	CARBON	680 5% 1/4W F
				R613	1-249-429-11	CARBON	10K 5% 1/4W
				R614	1-249-429-11	CARBON	10K 5% 1/4W
				R615	1-249-440-11	CARBON	82K 5% 1/4W
				R616	1-249-436-11	CARBON	39K 5% 1/4W
				R617	1-249-425-11	CARBON	4.7K 5% 1/4W F
				R618	1-249-437-11	CARBON	47K 5% 1/4W
				R619	1-249-428-11	CARBON	8.2K 5% 1/4W F
				R620	1-249-428-11	CARBON	8.2K 5% 1/4W F
				R621	1-249-429-11	CARBON	10K 5% 1/4W
				R622	1-249-437-11	CARBON	47K 5% 1/4W
				R623	1-249-417-11	CARBON	1K 5% 1/4W F
				R624	1-247-807-31	CARBON	100 5% 1/4W
				R625	1-247-807-31	CARBON	100 5% 1/4W
				R626	1-249-429-11	CARBON	10K 5% 1/4W
				R627	1-249-429-11	CARBON	10K 5% 1/4W
				R628	1-249-429-11	CARBON	10K 5% 1/4W F
				R632	1-249-421-11	CARBON	2.2K 5% 1/4W F

PANEL

P-AMP

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description		Remarks
R634	1-247-843-11	CARBON	3.3K	5%	1/4W	S610	1-762-196-21	SWITCH, TACT (FM MODE/REPEAT)		
R635	1-249-432-11	CARBON	18K	5%	1/4W	S611	1-762-196-21	SWITCH, TACT (PLAY MODE/TUNING MODE)		
R638	1-249-428-11	CARBON	8.2K	5%	1/4W F	S612	1-762-196-21	SWITCH, TACT (ENTER)		
R640	1-249-431-11	CARBON	15K	5%	1/4W	S613	1-762-196-21	SWITCH, TACT (FUNCTION)		
R653	1-249-429-11	CARBON	10K	5%	1/4W	S614	1-762-196-21	SWITCH, TACT (TREBLE)		
R654	1-249-441-11	CARBON	100K	5%	1/4W	S615	1-762-196-21	SWITCH, TACT (BASS)		
▲ R655	1-249-421-11	CARBON	2.2K	5%	1/4W F	S616	1-762-196-21	SWITCH, TACT (MUSIC MENU)		
R656	1-249-421-11	CARBON	2.2K	5%	1/4W F	S617	1-762-196-21	SWITCH, TACT (STOP)		
R657	1-249-429-11	CARBON	10K	5%	1/4W	S618	1-762-196-21	SWITCH, TACT (CD)		
R661	1-249-421-11	CARBON	2.2K	5%	1/4W F	S619	1-762-196-21	SWITCH, TACT (TUNER/BAND)		
R662	1-247-843-11	CARBON	3.3K	5%	1/4W	S620	1-762-196-21	SWITCH, TACT (MD)		
R663	1-249-425-11	CARBON	4.7K	5%	1/4W F	S621	1-762-196-21	SWITCH, TACT (TAPE)		
R664	1-249-413-11	CARBON	470	5%	1/4W F	S622	1-762-196-21	SWITCH, TACT (TUNER MEMORY/DIRECTION)		
R665	1-249-415-11	CARBON	680	5%	1/4W F					
R666	1-249-425-11	CARBON	4.7K	5%	1/4W F					< VIBRATOR >
R667	1-249-417-11	CARBON	1K	5%	1/4W F					
R668	1-249-419-11	CARBON	1.5K	5%	1/4W F	X601	1-567-098-41	VIBRATOR, CRYSTAL		
R669	1-249-427-11	CARBON	6.8K	5%	1/4W F					*****
R670	1-249-419-11	CARBON	1.5K	5%	1/4W F					A-4729-709-A P-AMP BOARD, COMPLETE
R671	1-249-419-11	CARBON	1.5K	5%	1/4W F					*****
R672	1-249-417-11	CARBON	1K	5%	1/4W F					< CAPACITOR >
R673	1-249-415-11	CARBON	680	5%	1/4W F	C501	1-126-964-11	ELECT	10uF	20.00% 50V
R674	1-249-413-11	CARBON	470	5%	1/4W F	C502	1-126-964-11	ELECT	10uF	20.00% 50V
R675	1-249-419-11	CARBON	1.5K	5%	1/4W F	C503	1-162-294-31	CERAMIC	0.001uF	10% 50V
R676	1-249-421-11	CARBON	2.2K	5%	1/4W F	C504	1-162-294-31	CERAMIC	0.001uF	10% 50V
R677	1-247-843-11	CARBON	3.3K	5%	1/4W	C505	1-162-290-31	CERAMIC	470PF	10% 50V
R678	1-249-417-11	CARBON	1K	5%	1/4W F	C506	1-162-290-31	CERAMIC	470PF	10% 50V
R679	1-249-417-11	CARBON	1K	5%	1/4W F	C507	1-126-964-11	ELECT	10uF	20.00% 50V
R680	1-249-419-11	CARBON	1.5K	5%	1/4W F	C508	1-126-964-11	ELECT	10uF	20.00% 50V
R681	1-249-419-11	CARBON	1.5K	5%	1/4W F	C509	1-126-966-11	ELECT	33uF	20.00% 16V
R682	1-249-421-11	CARBON	2.2K	5%	1/4W F	C510	1-162-306-11	CERAMIC	0.01uF	30.00% 16V
R686	1-249-429-11	CARBON	10K	5%	1/4W	C511	1-162-306-11	CERAMIC	0.01uF	30.00% 16V
R687	1-249-429-11	CARBON	10K	5%	1/4W	C520	1-126-968-11	ELECT	100uF	20.00% 50V
R690	1-249-417-11	CARBON	1K	5%	1/4W F	C521	1-162-193-31	CERAMIC	3.3PF	10.00% 50V
R695	1-249-437-11	CARBON	47K	5%	1/4W	C522	1-162-193-31	CERAMIC	3.3PF	10.00% 50V
R696	1-249-435-11	CARBON	33K	5%	1/4W	C523	1-130-493-00	MYLAR	0.068uF	5% 50V
R901	1-249-429-11	CARBON	10K	5%	1/4W	C524	1-130-493-00	MYLAR	0.068uF	5% 50V
						C525	1-130-493-00	MYLAR	0.068uF	5% 50V
						C526	1-130-493-00	MYLAR	0.068uF	5% 50V
						C541	1-136-165-00	FILM	0.1uF	5.00% 50V
						C542	1-135-832-11	ELECT	2200uF	20% 50V
						C543	1-135-832-11	ELECT	2200uF	20% 50V
						C591	1-136-165-00	FILM	0.1uF	5.00% 50V
										< CONNECTOR >
RES601	1-579-175-11	VIBRATOR, CERAMIC				CN501	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P		
										< DIODE >
RM601	8-759-827-70	IC NJL64H400A-1				D501	8-719-028-23	DIODE D3SBA20-4101		
						D502	8-719-991-33	DIODE 1SS133T-77		
						D503	8-719-991-33	DIODE 1SS133T-77		
						D504	8-719-991-33	DIODE 1SS133T-77		
						D505	8-719-991-33	DIODE 1SS133T-77		
										The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.
RY901	1-755-276-11	RELAY, POWER								
S601	1-762-196-21	SWITCH, TACT (POWER)								
S602	1-762-196-21	SWITCH, TACT (DISPLAY)								
S603	1-762-196-21	SWITCH, TACT (DIMMER)								
S604	1-762-196-21	SWITCH, TACT (REC)								
S605	1-762-196-21	SWITCH, TACT (CD SYNC)								
S606	1-762-196-21	SWITCH, TACT (EDIT)								
S607	1-762-196-21	SWITCH, TACT (SURROUND)								
S608	1-762-196-21	SWITCH, TACT (GROOVE)								
S609	1-762-196-21	SWITCH, TACT (EJECT)								

**HCD-TB10**

<b>P-AMP</b>	<b>POWER TRANSFORMER</b>	<b>SUB TRANSFORMER</b>	<b>VOL</b>
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks						
< TERMINAL >													
* EP501	1-537-738-21	TERMINAL, EARTH		△ F904	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) T6.3A/250V							
		< FUSIBLE >		△ F905	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) T6.3A/250V							
△ FR501	1-202-972-61	FUSIBLE	1	5%	△ F906	1-533-470-11	FUSE, GLASS TUBE (DIA. 5) T3.15A/250V						
△ FR502	1-212-881-11	FUSIBLE	100	5%	△ F907	1-533-468-11	FUSE, GLASS TUBE (DIA. 5) T2A/250V						
		< IC >		*****									
IC501	6-600-089-01	IC STK403-070			1-683-957-11	SUB TRANSFORMER BOARD							
		< TRANSISTOR >			*****								
Q501	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		C901	1-126-933-11	ELECT	100uF	20.00%	16V			
Q502	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		C902	1-126-936-11	ELECT	3300uF	20.00%	16V			
Q503	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		C903	1-113-925-11	CERAMIC	0.01uF	20.00%	250V			
< RESISTOR >													
R501	1-249-417-11	CARBON	1K	5%	1/4W F	△ CN903	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P					
R502	1-249-417-11	CARBON	1K	5%	1/4W F	△ CN905	1-564-321-21	PIN, CONNECTOR(3.96MM PITCH)2P					
R503	1-249-438-11	CARBON	56K	5%	1/4W							(AEP,UK,MX,KR)	
R504	1-249-438-11	CARBON	56K	5%	1/4W	△ CN905	1-568-106-11	PIN, CONNECTOR(3.96MM PITCH)4P (E,TW)					
R505	1-249-421-11	CARBON	2.2K	5%	1/4W F	△ CN907	1-564-321-00	PIN, CONNECTOR(3.96MM PITCH)2P					
R506	1-249-421-11	CARBON	2.2K	5%	1/4W F	< DIODE >							
R507	1-249-420-11	CARBON	1.8K	5%	1/4W F	D901	8-719-200-82	DIODE 11ES2-NTA1B					
R508	1-249-420-11	CARBON	1.8K	5%	1/4W F	D902	8-719-200-82	DIODE 11ES2-NTA1B					
R509	1-249-430-11	CARBON	12K	5%	1/4W	D903	8-719-200-82	DIODE 11ES2-NTA1B					
△ R510	1-249-435-11	CARBON	33K	5%	1/4W	D904	8-719-200-82	DIODE 11ES2-NTA1B					
R511	1-249-429-11	CARBON	10K	5%	1/4W	D905	8-719-991-33	DIODE 1SS133T-77					
R512	1-249-438-11	CARBON	56K	5%	1/4W	< FUSE >							
R513	1-249-438-11	CARBON	56K	5%	1/4W	△ F901	1-533-471-11	FUSE, GLASS TUBE (DIA. 5) T4A/250V (E,TW)					
R514	1-249-417-11	CARBON	1K	5%	1/4W F	< IC >							
R515	1-249-417-11	CARBON	1K	5%	1/4W F	IC901	8-759-158-62	IC TA78057S					
R516	1-249-431-11	CARBON	15K	5%	1/4W	< SWITCH >							
R517	1-249-431-11	CARBON	15K	5%	1/4W	△ S901	1-786-055-21	SELECTOR, VOLTAGE (E,TW)					
R518	1-249-437-11	CARBON	47K	5%	1/4W	< TRANSISTOR >							
R519	1-249-437-11	CARBON	47K	5%	1/4W	Q901	8-729-119-78	TRANSISTOR 2SC2785TP-HFE					
R520	1-260-076-11	CARBON	10	5%	1/2W	< TRANSFORMER >							
R521	1-260-076-11	CARBON	10	5%	1/2W	△ T902	1-435-823-21	TRANSFORMER, POWER (MX)					
△ R522	1-217-151-00	METAL	0.22	10%	2W	△ T902	1-435-824-21	TRANSFORMER, POWER (AEP,UK)					
△ R523	1-217-151-00	METAL	0.22	10%	2W	△ T902	1-435-825-21	TRANSFORMER, POWER (E,TW,KR)					
R524	1-249-435-11	CARBON	33K	5%	1/4W	*****							
R541	1-260-119-11	CARBON	47K	5%	1/2W	< CAPACITOR >							
R591	1-260-119-11	CARBON	47K	5%	1/2W	< CONNECTOR >							
*****													
1-683-958-11 POWER TRANSFORMER BOARD													
*****													
*	1-533-213-31	HOLDER, FUSE			1-683-963-11	VOL BOARD							
		< CAPACITOR >			*****								
C906	1-164-159-21	CERAMIC	0.1uF		50V	< CAPACITOR >							
		< CONNECTOR >				C617	1-164-159-21	CERAMIC	0.1uF		50V		
* CN901	1-564-519-11	PLUG, CONNECTOR 4P				< CAPACITOR >							
CN906	1-564-521-11	PLUG, CONNECTOR 6P				< CONNECTOR >							
*****													
The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.													

VOL

Ref. No.	Part No.	Description	Remarks
< RESISTOR >			

R682	1-249-421-11	CARBON	2.2K	5%	1/4W F
R683	1-247-843-11	CARBON	3.3K	5%	1/4W

&lt; SWITCH &gt;

S623	1-786-289-11	SWITCH, DETECTION (+/-)
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&lt; VARIABLE RESISTOR &gt;

VR601	1-473-534-11	ENCODER, ROTARY (VOL)
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## MISCELLANEOUS

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5	1-796-351-21	MECHANISM, SIGNAL CASSETTE
9	1-575-783-21	WIRE(FLAT TYPE) (9 CORE)
70	1-773-006-11	WIRE(FLAT TYPE) (15 CORE)
△ 106	1-769-079-21	CORD, POWER (KR)
△ 106	1-777-071-82	CORD, POWER (AEP,UK,E,TW)

△ 106	1-791-901-21	CORD, POWER (MX)
501	1-683-960-11	MOTOR (TRAY) BOARD
512	1-452-925-21	MAGNET ASSY
517	1-823-059-11	WIRE (FLAT TYPE) (16 CORE)
△ 521	8-820-020-02	OPTICAL PICK-UP BLOCK KSM-213DCP

△ F901	1-533-471-11	FUSE, GLASS TUBE (DIA. 5) T4A/250V (E,TW)
△ F904	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) T6.3A/250V
△ F905	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) T6.3A/250V
△ F906	1-533-470-11	FUSE, GLASS TUBE (DIA. 5) T3.15A/250V
△ F907	1-533-468-11	FUSE, GLASS TUBE (DIA. 5) T2A/250V

M103	A-4672-984-A	MOTOR (LD) ASSY
△ T901	1-437-619-11	TRANSFORMER, POWER (AEP,UK)
△ T901	1-437-721-11	TRANSFORMER, POWER (E,MX,TW,KR)

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

## REVISION HISTORY

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