

# ZS-2000

## SERVICE MANUAL

*US Model*

Ver 1.0 2000. 07



### AUDIO POWER SPECIFICATIONS

#### POWER OUTPUT AND TOTAL

#### HARMONIC DISTORTION

With 4-ohm loads, both channels driven from 150 - 15,000 Hz; rated 6.5 W per channel-minimum RMS power, with no more than 10% total harmonic distortion in AC operation.

CD Section	Model Name Using Similar Mechanism	ZS-D50
	CD Loading Mechanism Type	VLM-ZS2000
	CD Mechanism Type	CDM-2411AAA
	Optical Pick-up Name	DAX-01A2

## SPECIFICATIONS

### CD player section

#### System

Compact disc digital audio system

#### Laser diode properties

Material: GaAlAs

Wave length: 780 nm

Emission duration: Continuous

Laser output: Less than 44.6 µW

(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

#### Spindle speed

200 r/min (rpm) to 500 r/min (rpm) (CLV)

#### Number of channels

2

#### Frequency response

20 - 20,000 Hz +0.5/-0.7 dB

#### Wow and flutter

Below measurable limit

### Radio section

#### Frequency range

FM: 87.6 - 108 MHz

AM: 530 - 1,710 kHz

#### Antennas

FM: Telescopic antenna

AM: Loop antenna

### General

#### Speaker

Full range: 8 cm (3 1/4 in.) dia., 4 ohms, cone type x 2

#### Input

LINE IN jack (stereo minijack)

Minimum input level 250 mV

#### Outputs

Headphones jack (stereo minijack)

For 16 - 68 ohms impedance headphones

OPTICAL DIGITAL OUT (CD) (optical output connector)

Wavelength: 630 - 690 nm

#### Power requirements

For personal audio system:

120 V AC, 60 Hz

For remote control:

3 V DC, 2 size AA (R6) batteries

#### Power consumption

AC 30 W

#### Dimensions (incl. projecting parts)

approx. 470 x 206.5 x 145.5 mm (w/h/d)

(18 5/8 x 8 1/4 x 5 3/4 inches)

#### Mass

approx. 5 kg (11 lb.)

#### Supplied accessories

Remote control (RMT-C200A) (1)

AM loop antenna (1)

Speaker nets (2)

Design and specifications are subject to change without notice.

**PERSONAL AUDIO SYSTEM**

**SONY®**

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65

## CAUTION

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

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

The laser diode in the optical pick-up block may suffer electrostatic 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.

## NOTES ON CHIP COMPONENT REPLACEMENT

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

## FLEXIBLE CIRCUIT BOARD REPAIRING

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

## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

## LEAKAGE TEST

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

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

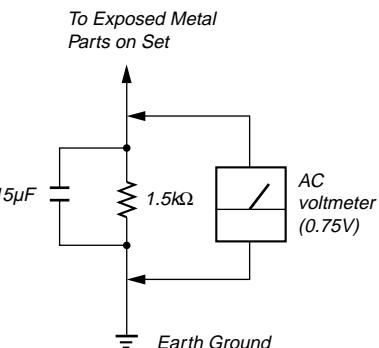


Fig. A. Using an AC voltmeter to check AC leakage.

## 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.

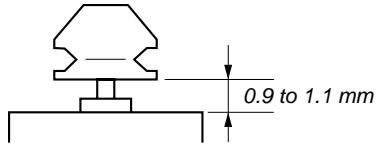
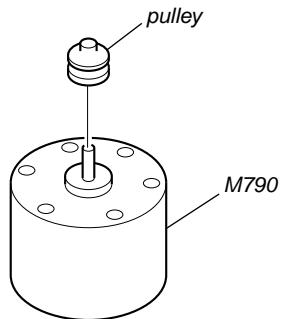
## SECTION 1 SERVICING NOTES

### 1-1. LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Close the lid for CD.
2. Press CD  button.
3. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.  
Objective lens moves up and down once for the focus search.

### 1-2. CAUTION DURING WHEN MOUNTING THE PULLEY FOR THE LOADING MOTOR

Make the following adjustment when mounting the loading motor (part number: 1-698-999-11) and motor pulley (part number: 2-627-174-01) of the CD section.



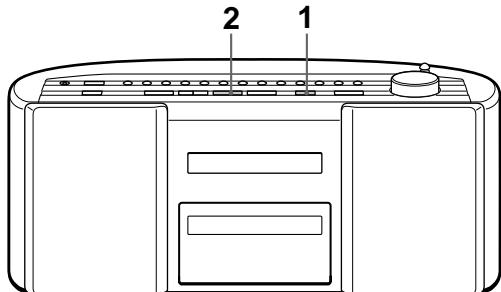
*Install the pulley to the motor.*

## SECTION 2 GENERAL

This section is extracted from instruction manual.

### Basic Operations

#### Playing a CD



Connect the AC power cord to the wall outlet (see page 26).

**1** **CD OPEN/CLOSE**

Press **▲ CD OPEN/CLOSE** (direct power-on) and place the CD on the CD tray until it clicks into place.

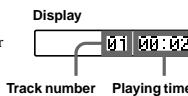


**With the label side up**

**2**

**▶II**

Press **▶II** (▶ on the remote).  
The CD tray closes and the player plays all the tracks once.

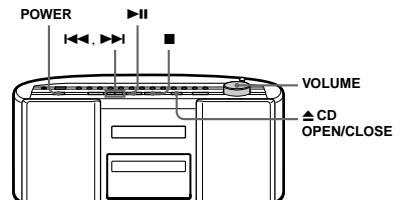


Display  
Track number Playing time

#### Tip

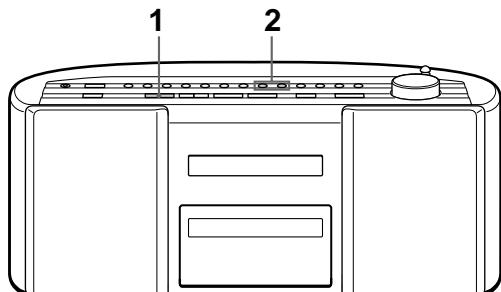
Next time you want to listen to a CD, just press **▶II**. The player turns on automatically and starts playing the CD.

Use these buttons for additional operations



To	Do this
adjust the volume	Turn VOLUME toward + or - (press VOL +, - on the remote).
stop playback	Press ■.
pause playback	Press ▶II (II on the remote). Press again to resume play after pause.
go to the next track	Press ▶II.
go back to the previous track	Press ▶II.
remove the CD	Press <b>▲ CD OPEN/CLOSE</b> .
turn on/off the player	Press POWER.

#### Listening to the radio



Connect the AC power cord to the wall outlet (see page 26).

**1**

**RADIO**

**BAND**

**AUTO PRESET**

Press **RADIO BAND • AUTO PRESET** until the band you want appears in the display (direct power-on).

Each time you press the button, the band changes as follows:  
"FM1" → "FM2" → "AM"

Display

FM1 87.6

**2**

**TUNE - TIME SET +**

**- TEXT +**

Hold down **TUNE • TIME SET +** or **-** (**TUNE + or -** on the remote) until the frequency digits begin to change in the display.

The player automatically scans the radio frequencies and stops when it finds a clear station.

If you cannot tune in a station, press the button repeatedly to change the frequency step by step.

Display

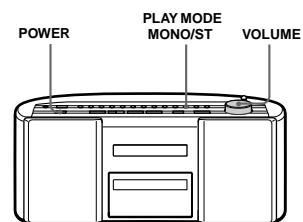
FM1 89.2

Indicates an FM stereo broadcast.

#### Tips

- The "FM1" and "FM2" bands have the same functions. You can store the stations you want separately in "FM1" and "FM2" (page 14).
- If the FM broadcast is noisy, press **PLAY MODE • MONO/ST** (**MODE** on the remote) until "Mono" appears in the display and the radio will play in monaural.
- Next time you want to listen to the radio, just press **RADIO BAND • AUTO PRESET**. The player turns on automatically and starts playing the previous station.

Use these buttons for additional operations



To	Do this
adjust the volume	Turn VOLUME toward + or - (press VOL +, - on the remote).
turn on/off the radio	Press POWER.

#### To improve broadcast reception

##### FM:

Reorient the antenna for FM.



##### AM:

Keep the AM loop antenna as far as possible from the player and reorient it.

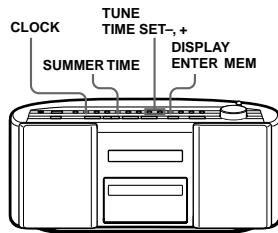


If the broadcast is still noisy, connect the external antenna (page 27).

## The Timer

### Setting the clock

"— : — : —" indication appears in the display until you set the clock.

**Tip**

The time display system of this player is the 12-hour system.

- 1 Press and hold CLOCK until the hour digits flash.



- 2 Set the time.

- ① Press TUNE • TIME SET + or - to set the hour and press DISPLAY • ENTER MEM.



- ② Press TUNE • TIME SET + or - to set the minutes.



- 3 Press DISPLAY • ENTER MEM.



The clock starts from 00 seconds.

**To change the display to the daylight saving time (summer time) indication**

Press and hold SUMMER TIME for 2 seconds.

"Summer On" appears in the display for a few seconds.

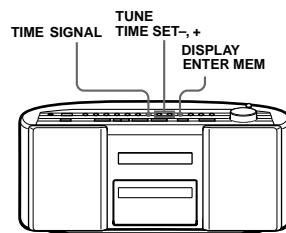
**To cancel the summer time indication**

Press and hold SUMMER TIME again.

"Summer Off" appears in the display for a few seconds.

### Setting the time signal

When the power is off, you can hear the time signal on this player. You can select the sound for the time signal. Make sure you have set the clock (see page 18).



- 1 When the power is off, press TIME SIGNAL to display "TIME SIGNAL" indication.

Do the following operations by checking the display.



- 2 Press TUNE • TIME SET + or - until the sound you want appears in the display, and press DISPLAY • ENTER MEM.

**Display Intervals**

Wall Clock	Sounds on the hour the number of times corresponding to the hour and again on the half hour once (Example: Three times at 3:00 p.m. and again at 3:30 p.m. once).
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Harp	Sounds on the hour once
------	-------------------------

Music Box	Sounds on the hour once
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Chime	Sounds on the hour once
-------	-------------------------

Organ	Sounds on the hour once
-------	-------------------------

- 3 Press TUNE • TIME SET + or - to set the volume you want, and press DISPLAY • ENTER MEM.

*continued*

### Setting the time signal (continued)

- 4 Press TUNE • TIME SET + or - to select the time for the time signal function to work, and then press DISPLAY • ENTER MEM.

Display	Time signal sounds
Off	Not at all
Every Hour	All day
Auto	7:00 a.m. - 10:00 p.m.
Once a Day*	Once a day

\* If you selected "Wall Clock" in step 2, you cannot select "Once a Day".

- 5 If you selected "Once a Day" in step 4, set the time for the time signal to sound. (If you selected other items in step 4, omit this step.)

- ① Press TUNE • TIME SET + or - to set the hour and press DISPLAY • ENTER MEM.

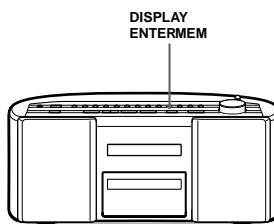
- ② Press TUNE • TIME SET + or - to set the minutes and press DISPLAY • ENTER MEM.

**To check the sound types (demonstration mode)**

Press and hold TIME SIGNAL for about 2 seconds. You can hear the five types of sound once.

### Saving power

Even when power is turned off, this player consumes about 5.6 W for time indication, timer operation, remote control reception. If you use the saving power function, you can reduce power consumption to less than 1 W.



When the power is off, press and hold DISPLAY • ENTER MEM for about 2 seconds.

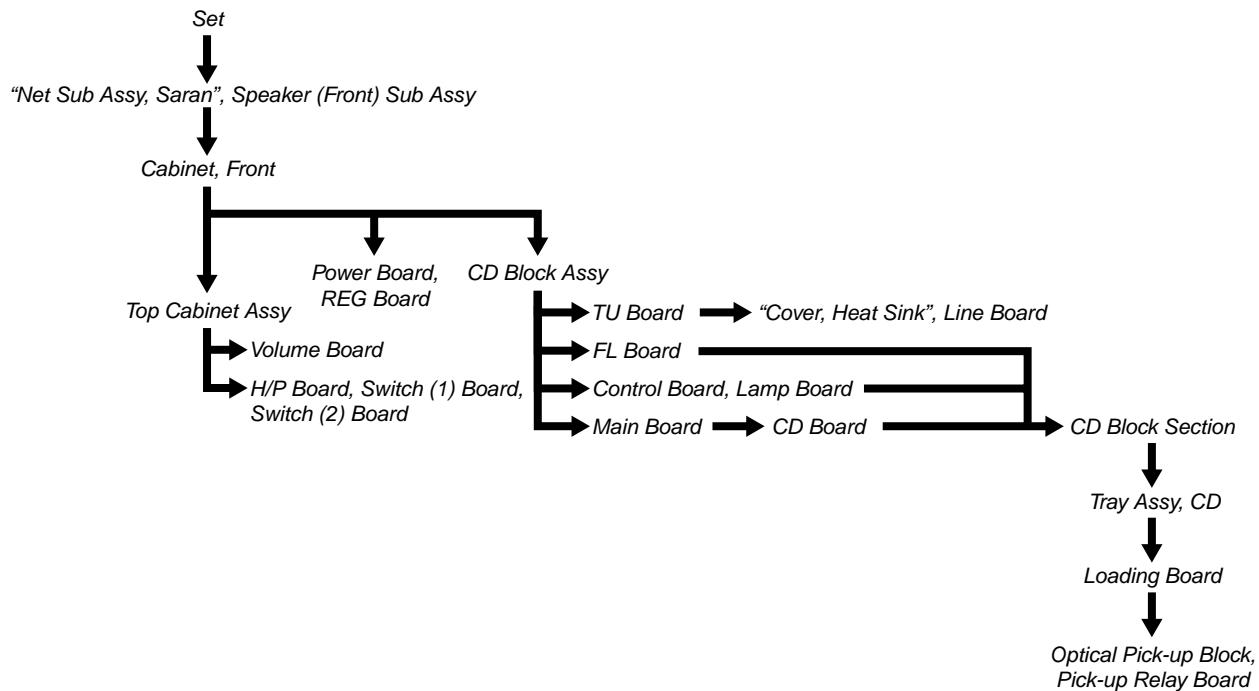
The player enters the lower power consumption standby mode.

**To cancel the saving power**

To make the time indication appear, press and hold DISPLAY • ENTER MEM for about 2 seconds when the power is off.

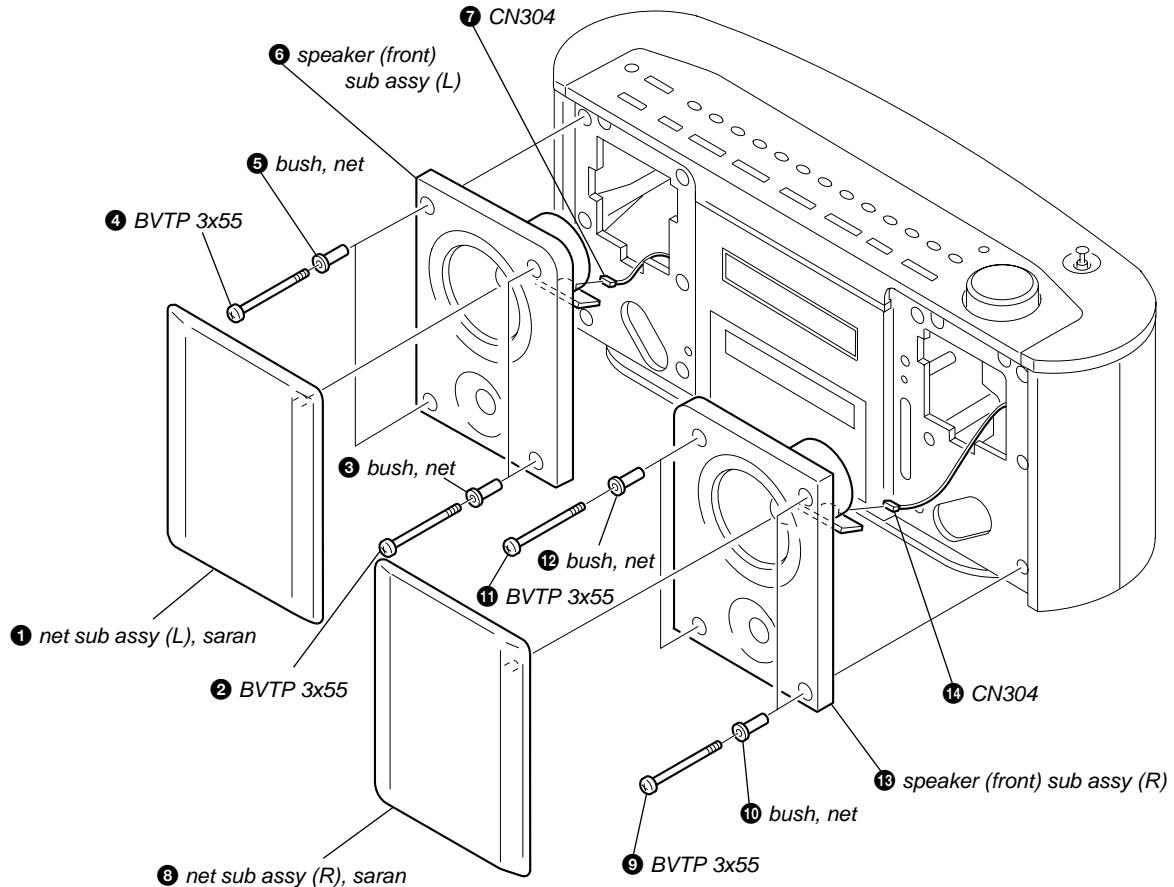
## SECTION 3 DISASSEMBLY

**Note :** This set can be disassemble according to the following sequence.

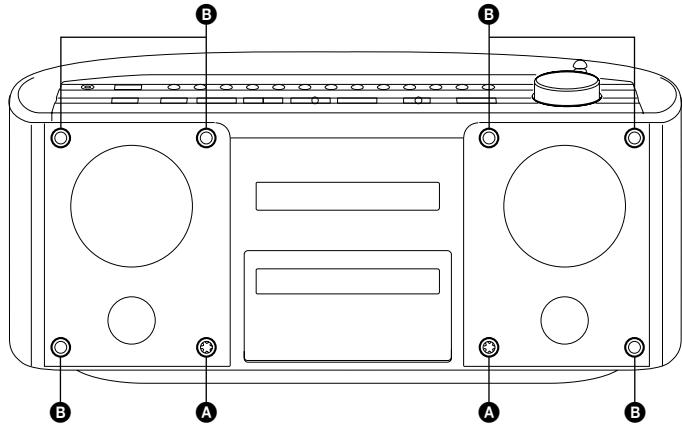


**Note :** Follow the disassembly procedure in the numerical order given.

### 3-1. "NET SUB ASSY, SARAN", SPEAKER (FRONT) SUB ASSY



• Note for installation of the speaker (front) sub assy

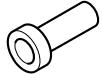


*There are two types of net "bush, net":*

Type A: 3-041-456-11 (with groove in the tube)

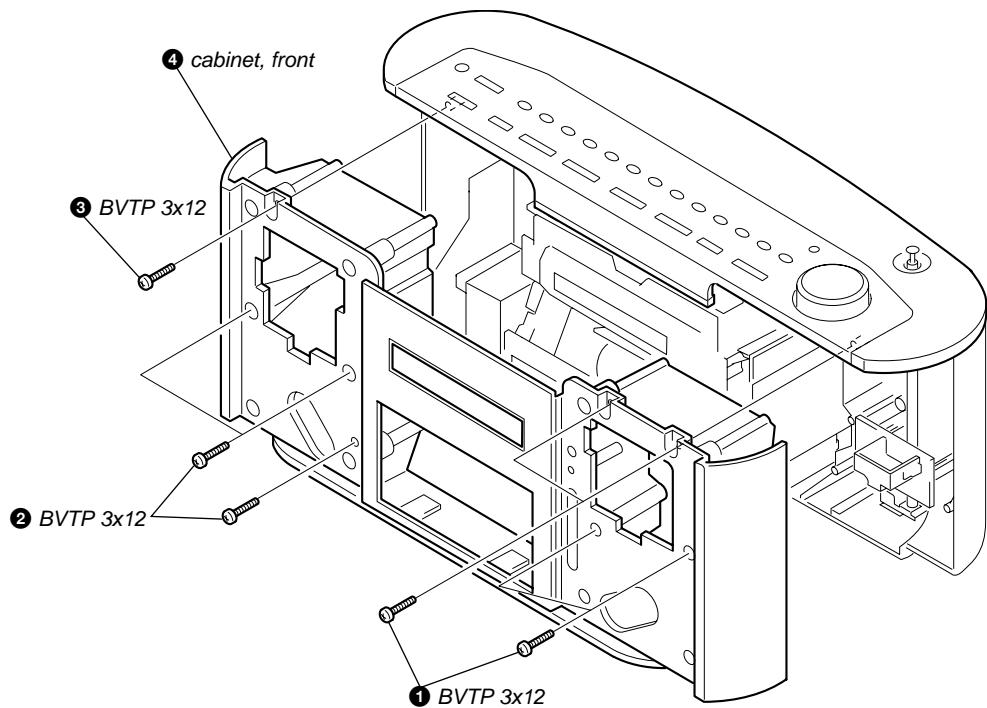


Type B: 3-041-456-01 (without groove in the tube)

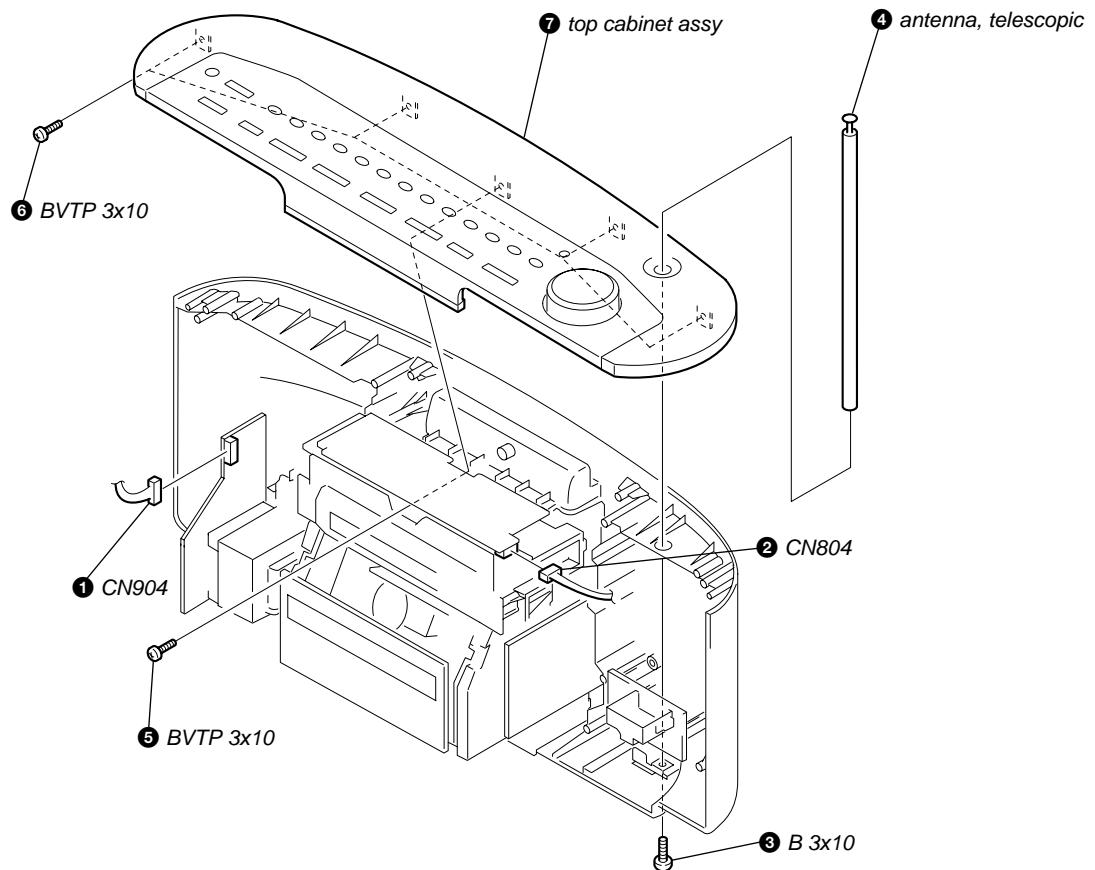


The type A of "bush, net" should be installed at place **A** in the left figure.  
The type B of "bush, net" should be installed at place **B**.

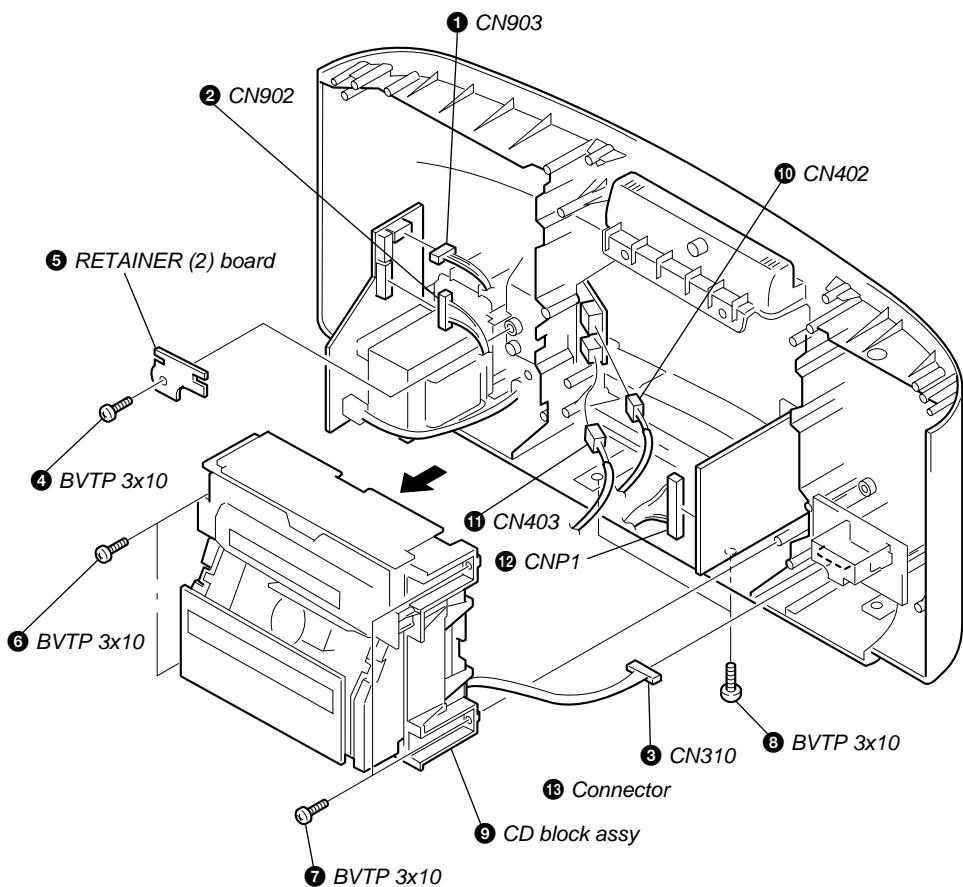
### 3-2. CABINET, FRONT



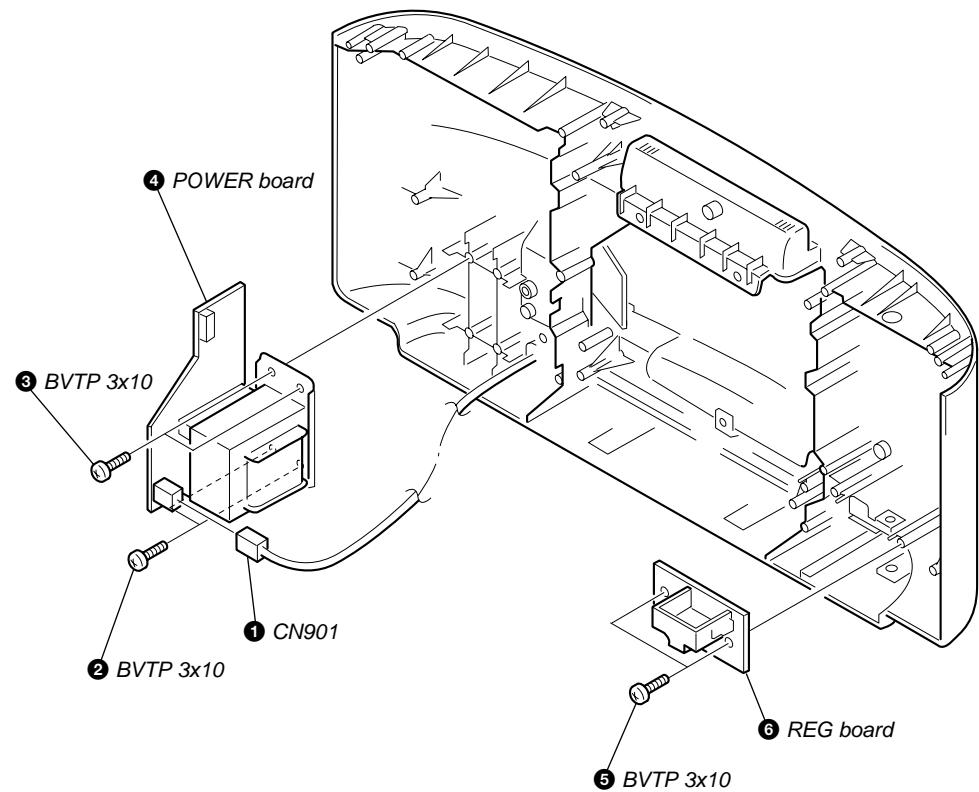
### 3-3. TOP CABINET ASSY



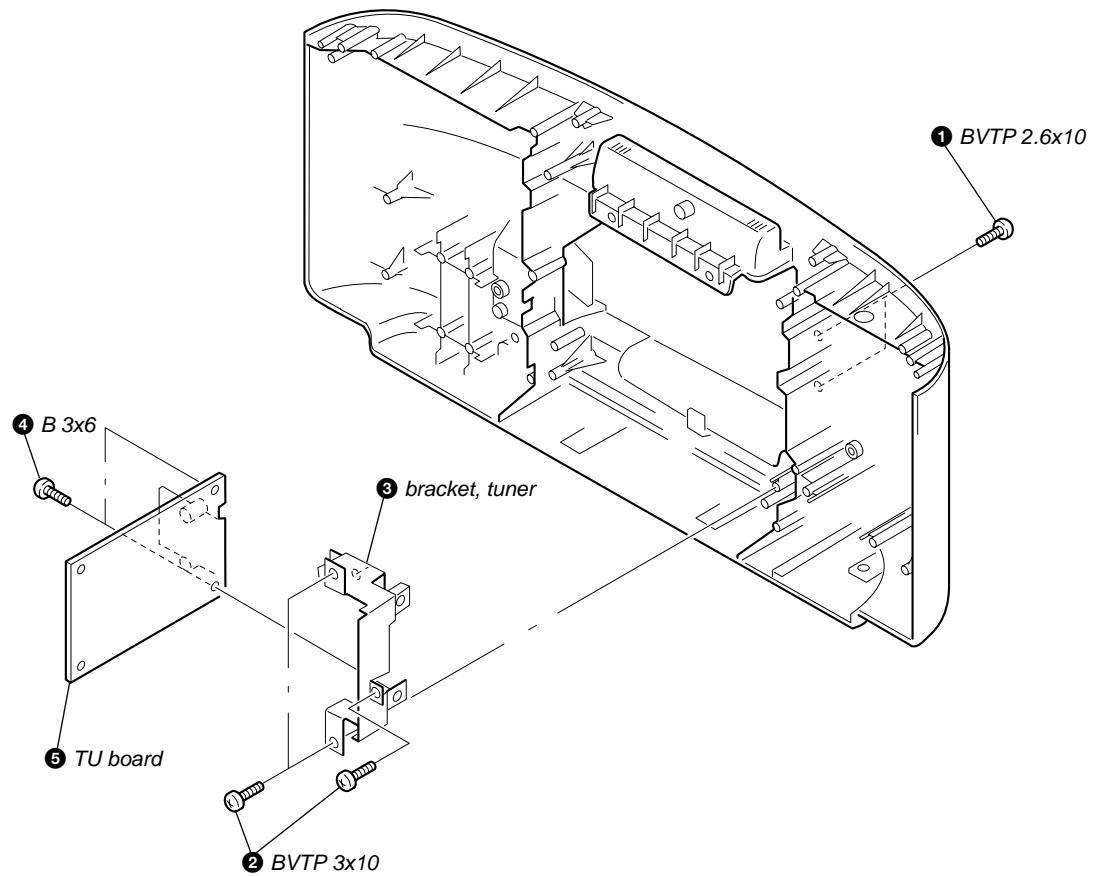
### 3-4. CD BLOCK ASSY



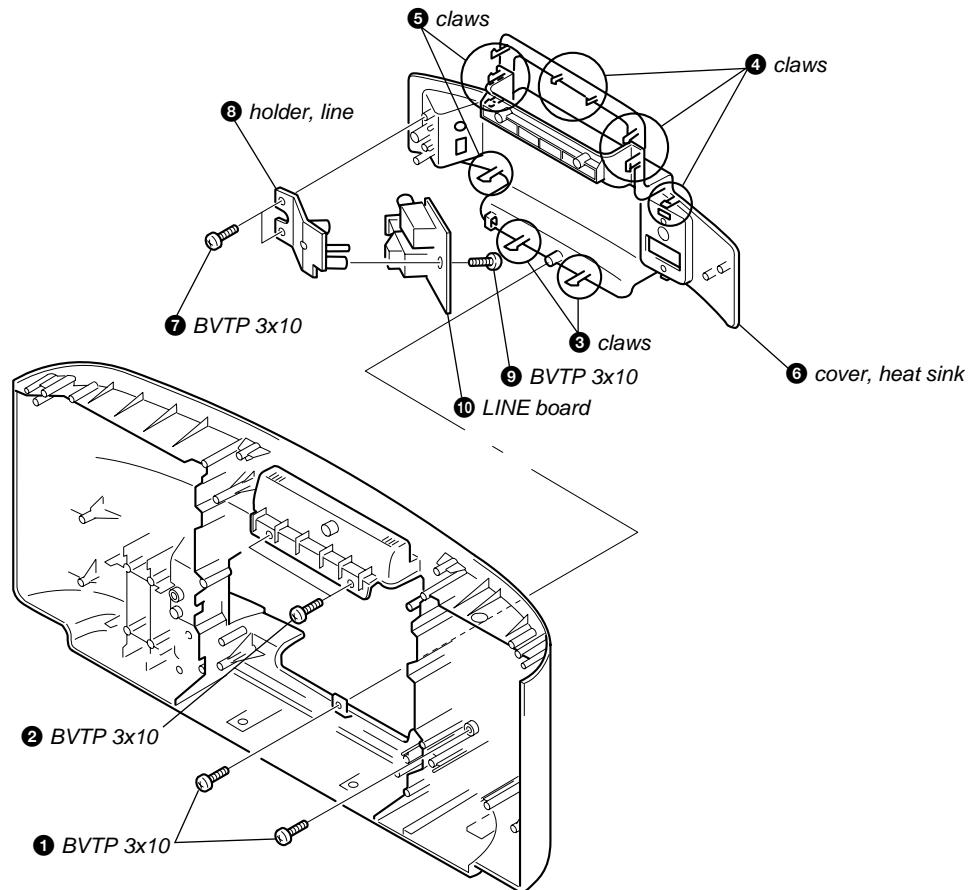
### 3-5. POWER BOARD, REG BOARD



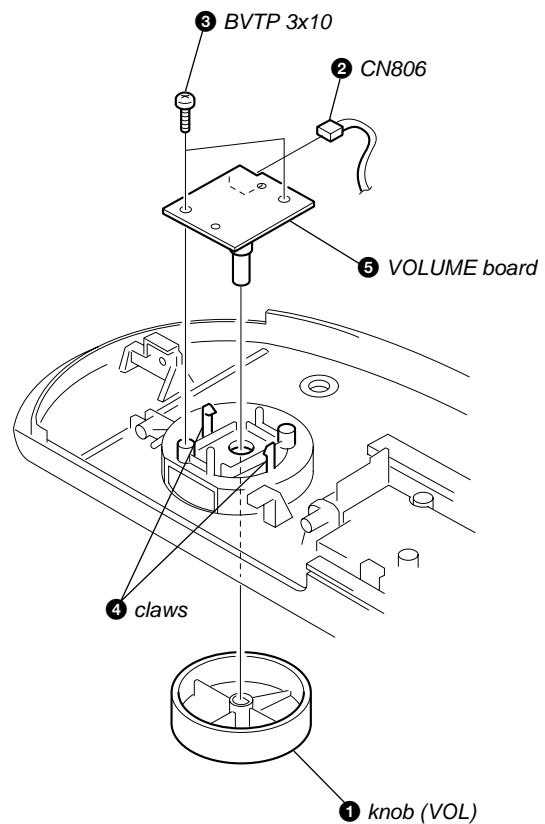
### 3-6. TU BOARD



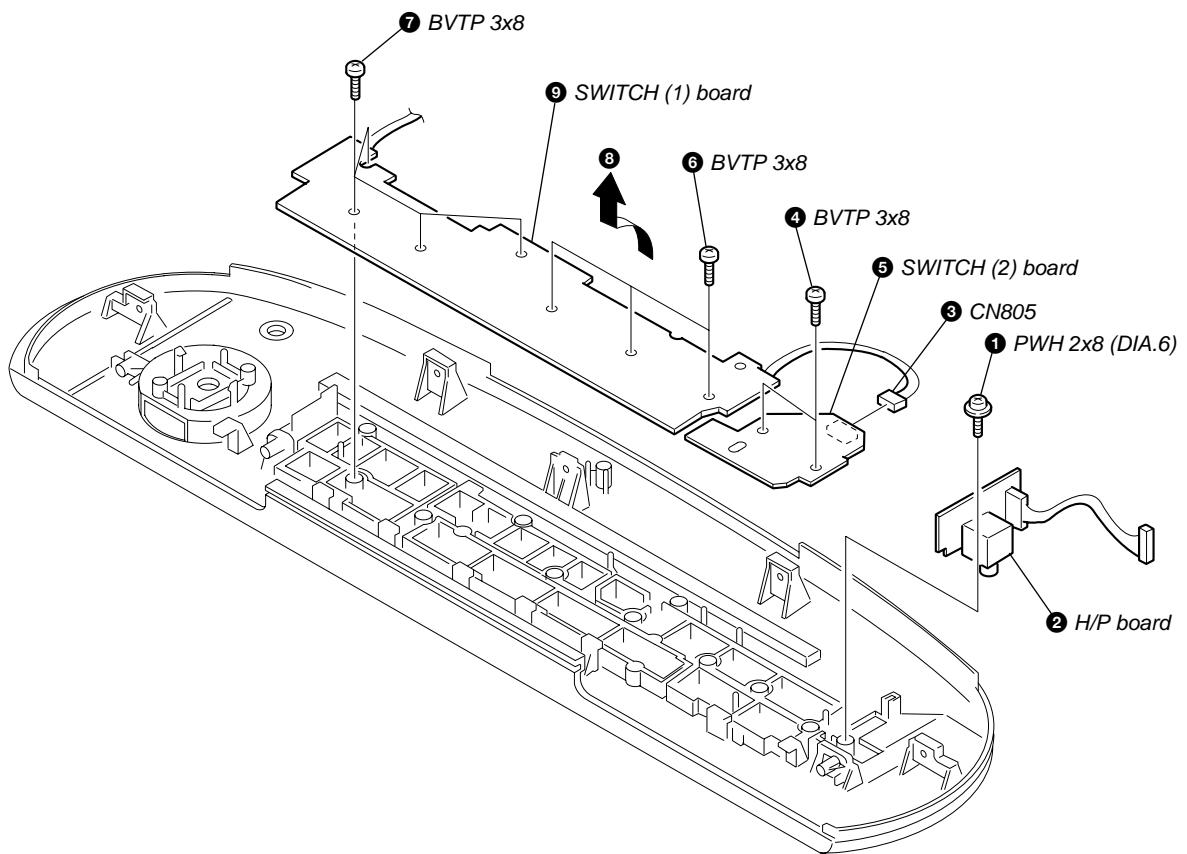
### 3-7. "COVER, HEAT SINK", LINE BOARD



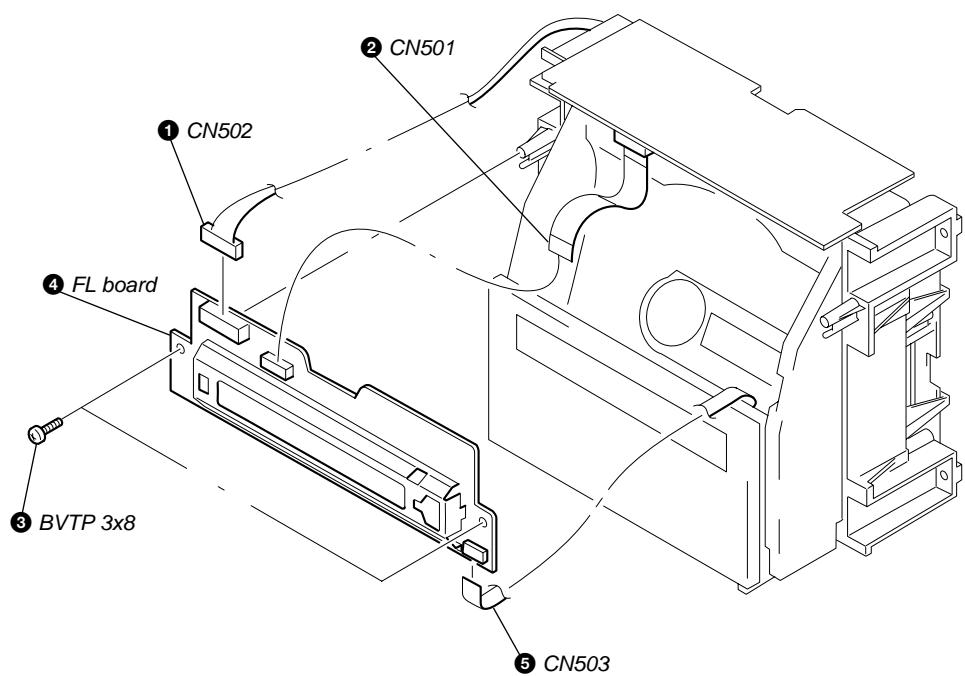
### 3-8. VOLUME BOARD



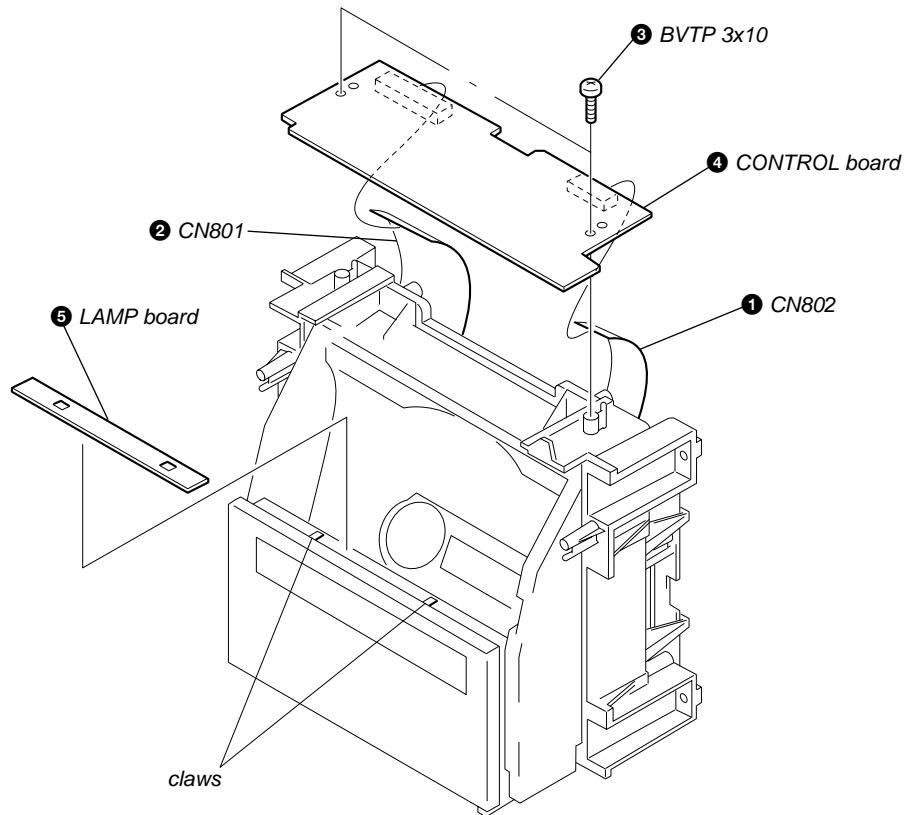
### 3-9. H/P BOARD, SWITCH (1) BOARD, SWITCH (2) BOARD



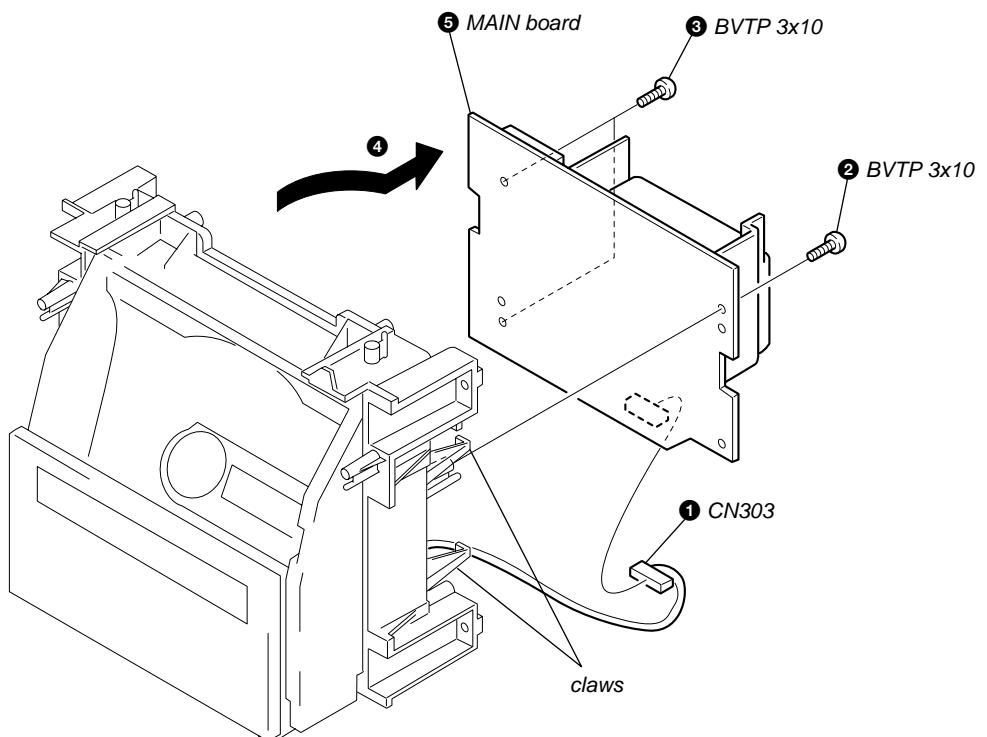
### 3-10. FL BOARD



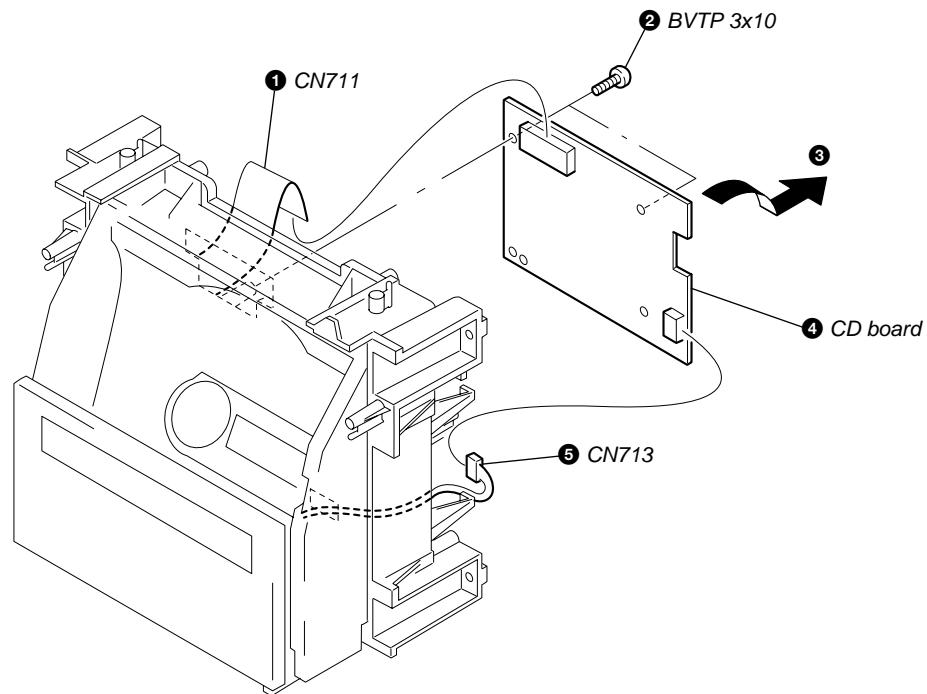
### 3-11. CONTROL BOARD, LAMP BOARD



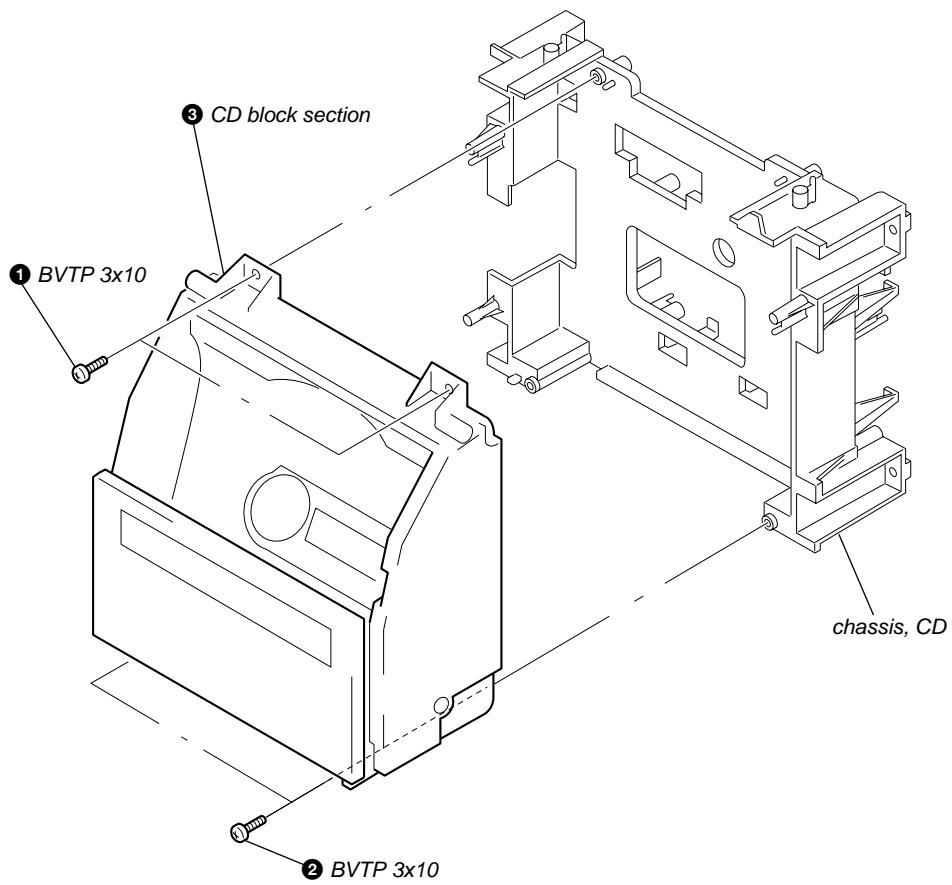
### 3-12. MAIN BOARD



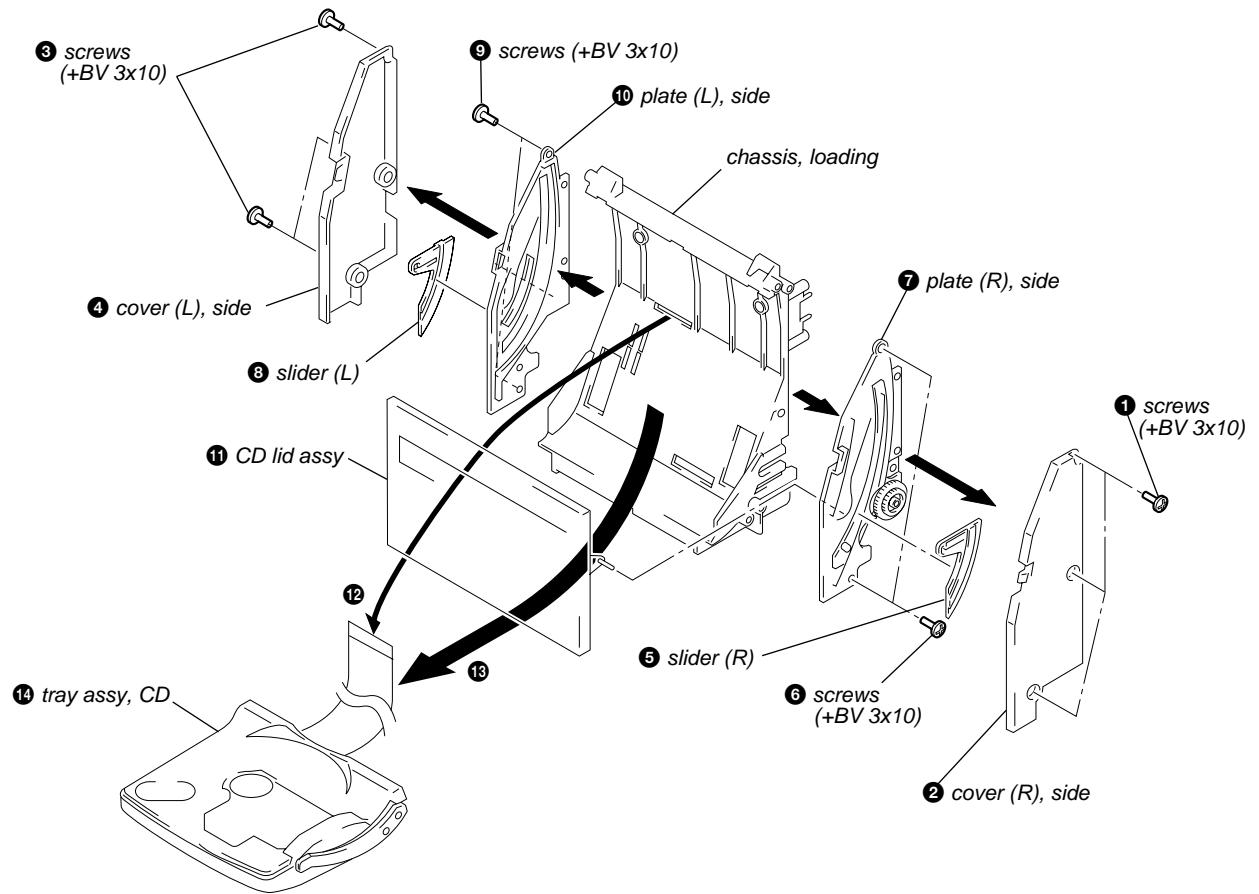
### 3-13. CD BOARD



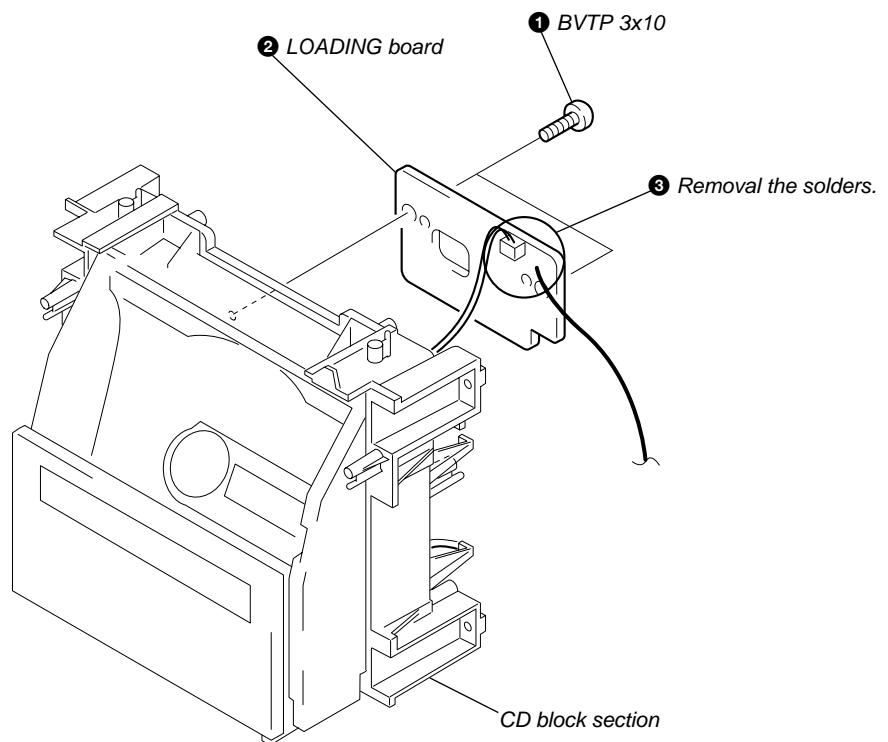
### 3-14. CD BLOCK SECTION



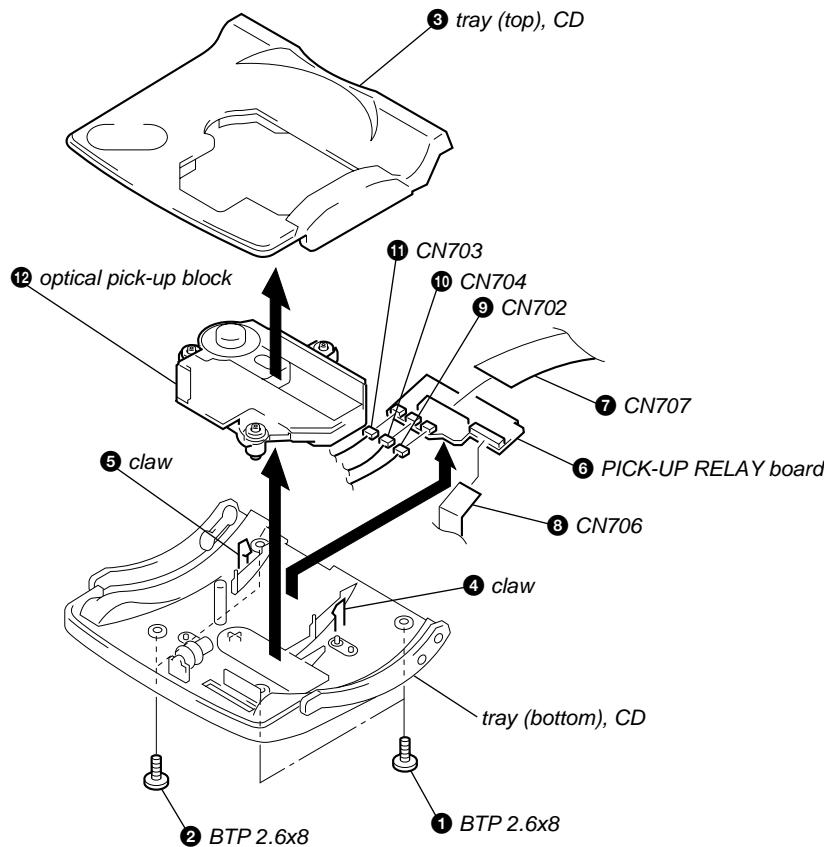
### 3-15. TRAY ASSY, CD



### 3-16. LOADING BOARD



### 3-17. OPTICAL PICK-UP BLOCK, PICK-UP RELAY BOARD



## SECTION 4 TEST MODE

### 4-1. GENERAL DESCRIPTION

This set has the TEST MODE that allows the CD unit to be operational checked.

### 4-2. TEST MODE

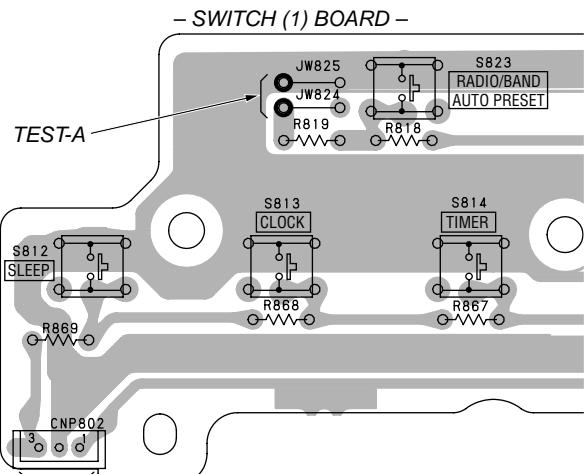
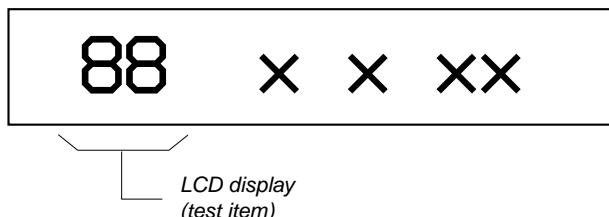
#### 4-2-1. Setting the test mode

- 1) Turn the power on.
- 2) Short the TEST-A land on the SWITCH(1) BOARD to open it (or short between JW824 and JW825 to open the circuit).

#### 4-2-2. Releasing the test mode

After the test mode is complete, turn the power off to release the mode.

Display



#### 4-2-3. The contents of test mode

Mode name	Description	LCD display
STOP 1	The initial state and command are reset and the initial value is set. After resetting, Stop 2 is switched to.	88
STOP 2	Stopped state. FF/FR KEY is used to operate the SLED(PICK-UP). The automatic adjustment value is held.	88
FOCUS	FOCUS SERVO: ON. CLV-S TRACKING & SLED SERVO: OFF If FOCUS SERVO does not turn on, for example, without disc, FOCUS SEARCH is performed limitlessly. When FOCUS SERVO is turned on, LPC is turned on and 'PGM' is displayed.	v=
ALL SERVO	All SERVOs are turned on. When LPC is turned on, 'PGM' is displayed. After automatic adjustment, 'r =' is displayed. If the automatic adjustment value is manually changed, 'SHUF' is displayed.	r=
T.G UP	With SERVO OFF, TRACKING in the GAIN UP state. LPC is turned on.	r0
SLED FWD	With SERVO OFF, SLED (PICK-UP) is moved to the outer circumference.	u1
SLED REV	With SERVO OFF, SLED (PICK-UP) is moved to the inner circumference.	u2
FOCUS FWD	With FOCUS state, SLED(PICK-UP) is moved to the outer circumference.	v1
FOCUS REV	With FOCUS state, SLED (PICK-UP) is moved to the inner circumference.	v2
LPC OFF	When all SERVOs are on and LPC is off, 'PGM' is turned off. When LPC is on, PGM' is turned on.	-

#### 4-2-4. MODE transition table

KEY operated Current TEST MODE	STOP	PLAY/PAUSE	TUNE TIME SET -		TUNE TIME SET +	
			While held down	When released	While held down	When released
STOP 1	STOP 1	FOCUS	SLED RWD	STOP 1	SLED FWD	STOP 1
STOP 2	STOP 1	FOCUS	SLED RWD	STOP 2	SLED FWD	STOP 2
FOCUS	STOP 2	ALL SERVO	FOCUS RWD	FOCUS	FOCUS FWD	FOCUS
ALL SERVO	STOP 2	LPC OFF	FOCUS RWD	FOCUS	FOCUS FWD	FOCUS
LPC OFF	STOP 2	T.G UP	FOCUS RWD	FOCUS	FOCUS FWD	FOCUS
TG UP	STOP 2	ALL SERVO	FOCUS RWD	FOCUS	FOCUS FWD	FOCUS

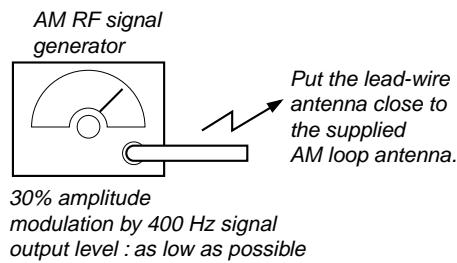
## SECTION 5 ELECTRICAL ADJUSTMENTS

### 5-1. TUNER SECTION 0 dB = 1 µV

- AM Section

**Setting:**

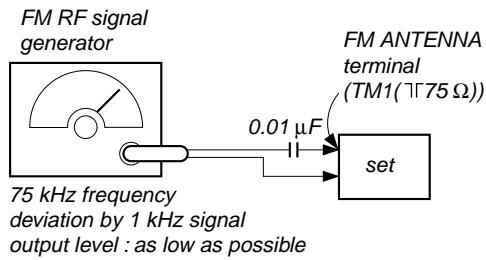
BAND button: AM



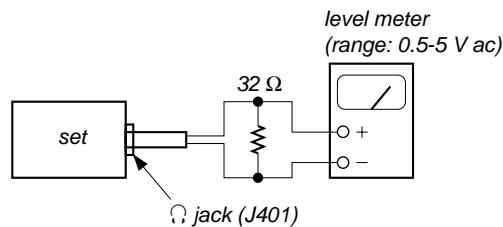
- FM Section

**Setting:**

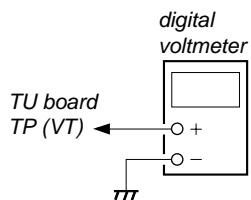
BAND button: FM



- Connecting Level Meter (FM and AM)



- Connecting Digital Voltmeter (FM and AM)



**NOTE :** 1) Repeat the procedures in each adjustment several times, and the tracking adjustments should be finally done by the trimmer capacitors.  
2) Remove FM antenna in FM adjustment.

#### AM IF ADJUSTMENT

Adjust for a maximum reading on level meter.

T1

450 kHz (Display: 1,000 kHz)

#### AM FREQUENCY COVERAGE ADJUSTMENT

Frequency Display	530 kHz	1,710 kHz
Reading on Digital voltmeter	$0.9 \pm 0.1$ V	$4.7 \pm 0.5$ V
Adjustment Part	T4	<confirmation>

#### AM TRACKING ADJUSTMENT

Adjust for a maximum reading on level meter.

T3 CT3

620 kHz 1,400 kHz

#### FM IF ADJUSTMENT

Adjust for a maximum reading on level meter.

T2

10.7 MHz (Display: 98 MHz)

#### FM FREQUENCY COVERAGE ADJUSTMENT

Frequency Display	87.5 MHz	108 MHz
Reading on Digital voltmeter	$1.5 \pm 0.1$ V	$3.5 \pm 0.4$ V
Adjustment Part	L2	<confirmation>

#### FM TRACKING ADJUSTMENT

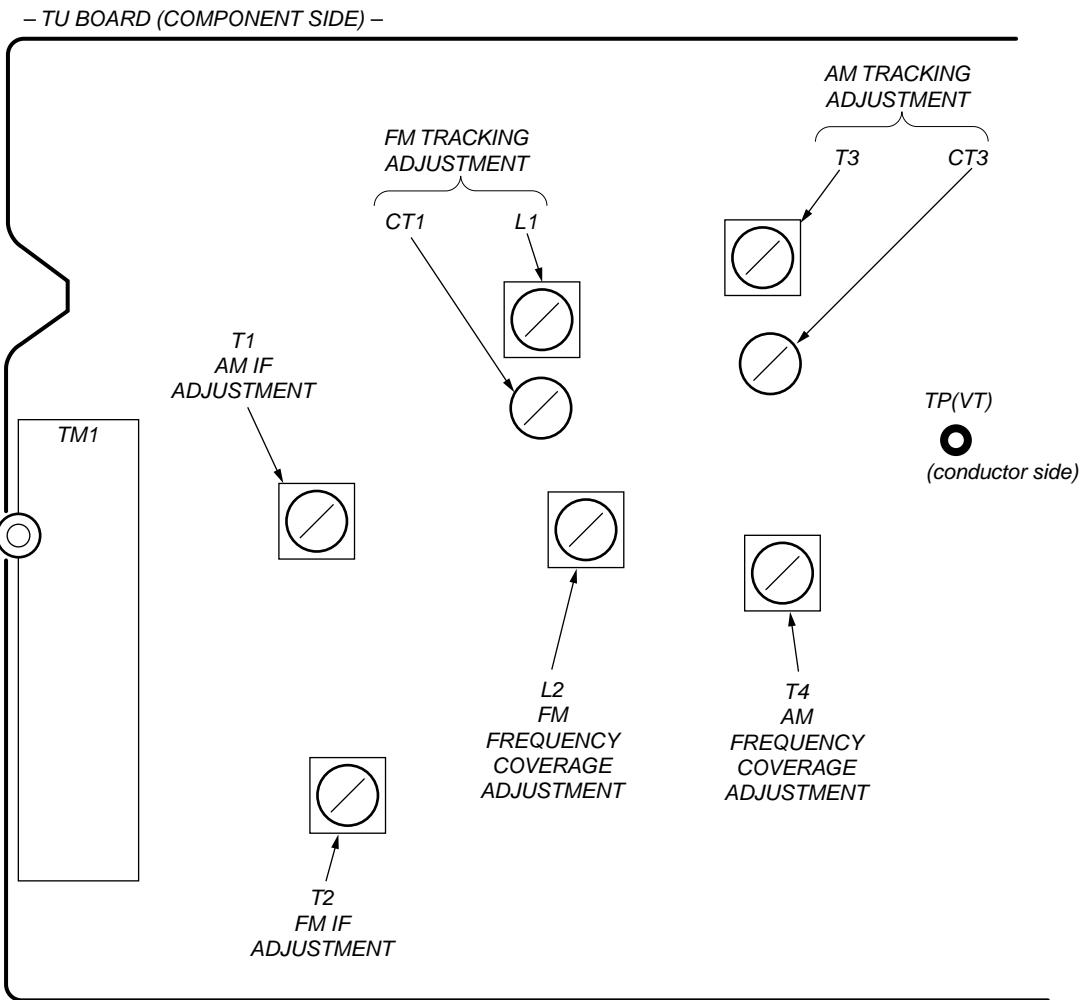
Adjust for a maximum reading on level meter.

L1 CT1

87.5 MHz 108 MHz

**Adjustment Location:** TU board (See page 19.)

### Adjustment Location:



### 5-2. CD SECTION

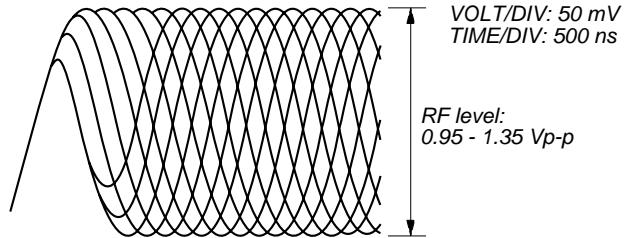
CD section adjustments are done automatically in this set.  
In case of operation check, confirm that focus bias.

#### FOCUS BIAS CHECK

##### Procedure:

1. Connect the oscilloscope between IC701 pin ③ (or TP (RF)) and GND on CD board.
2. Insert the disc (YEDS-18). (Part No. : 3-702-101-01)
3. Press the CD button.
4. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)

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

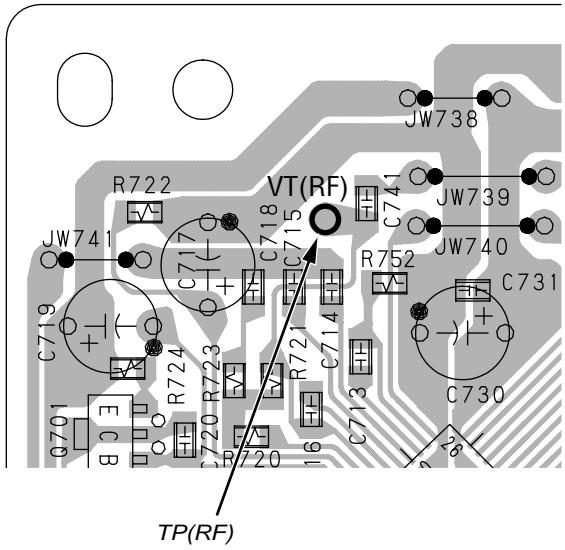


- RF signal reference waveform (eye pattern)

When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

##### Test Point:

— CD board (conductor side) —



## SECTION 6 DIAGRAMS

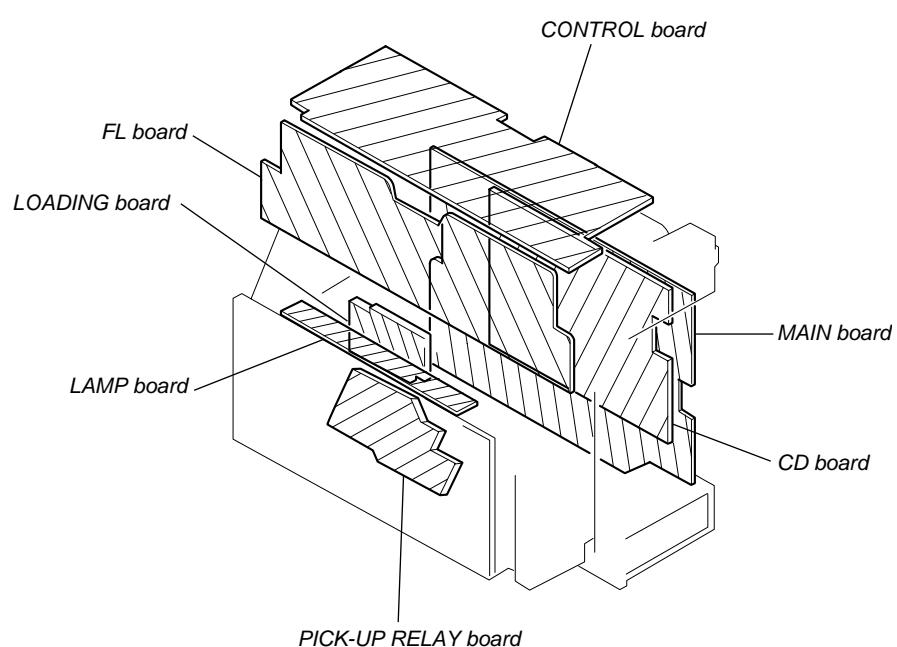
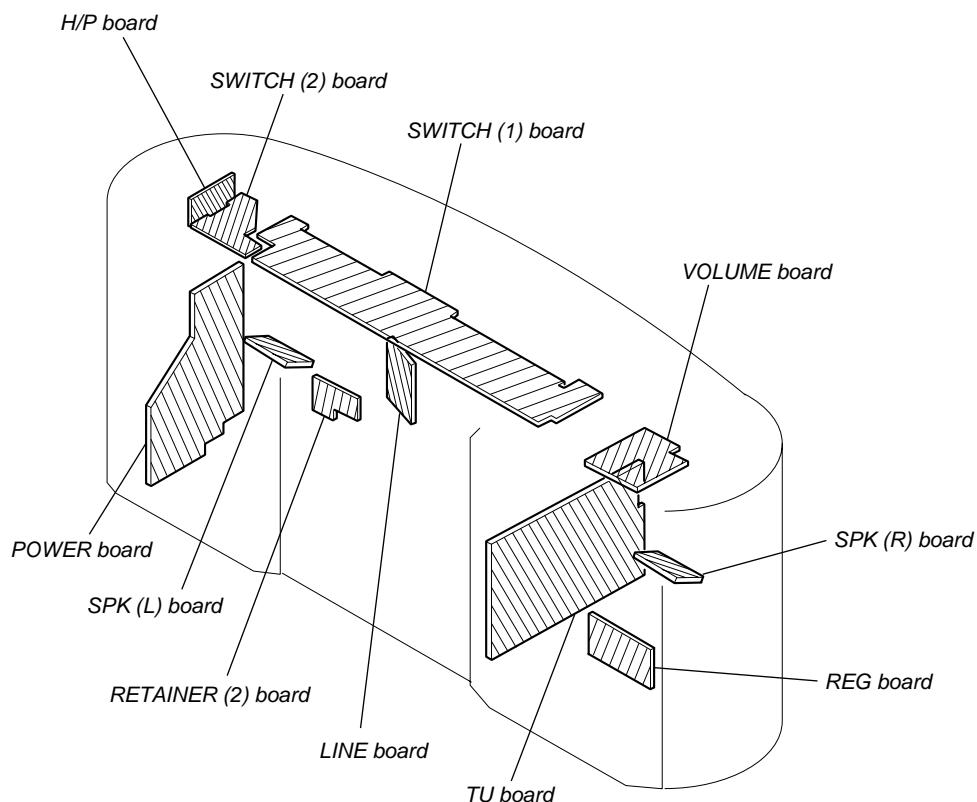
### 6-1. IC PIN DESCRIPTION

#### • IC801 CXP84332-229Q (SYSTEM CONTROL)

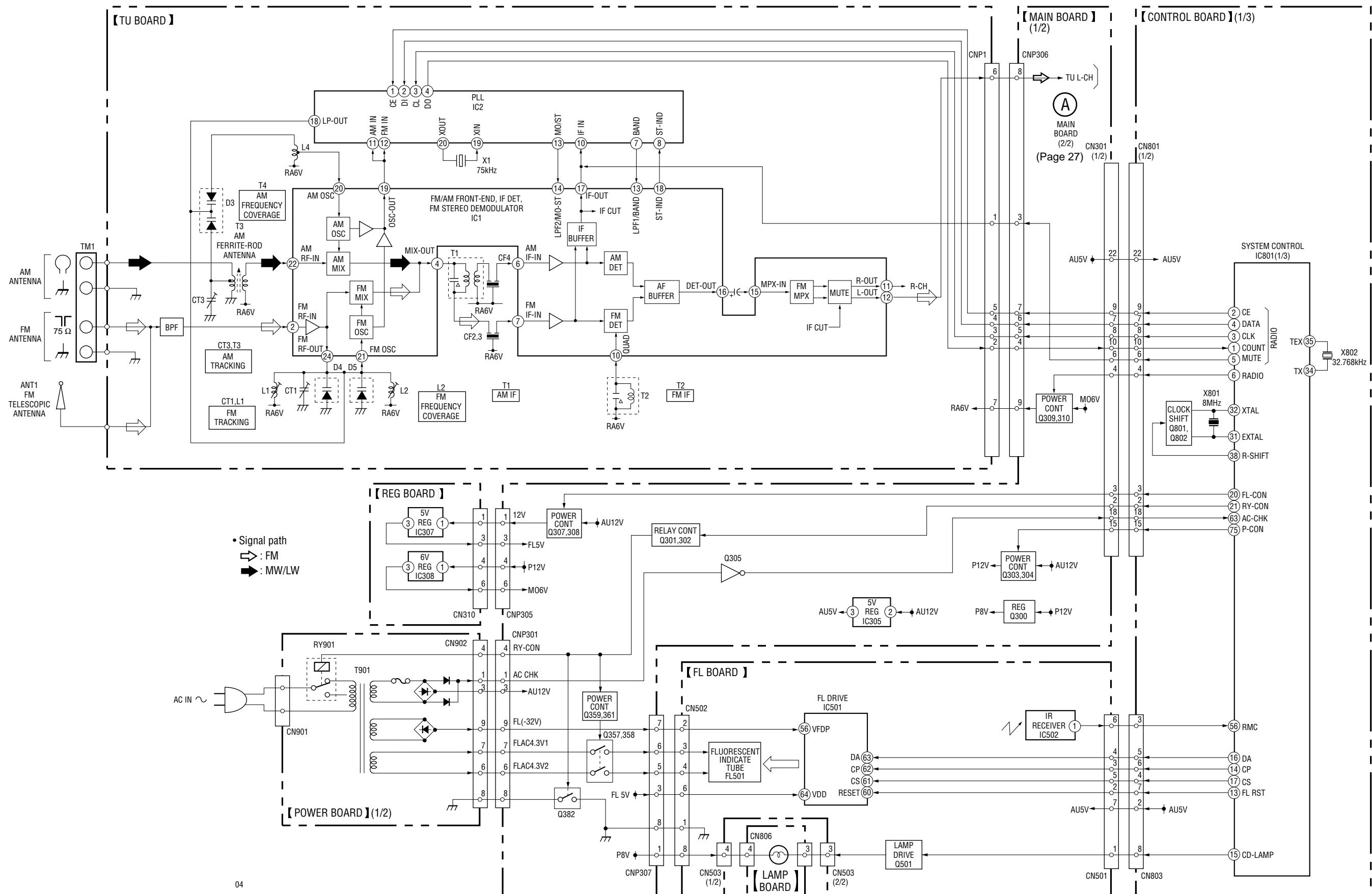
Pin No.	Pin Name	I/O	Pin Description
1	R-COUNT	I	PLL IC count data output
2	R-CE	O	PLL IC chip enable output.
3	R-CLK	O	PLL IC clock output.
4	R-DATA	O	PLL IC data output.
5	R-MUTE	O	Tuner mute signal output.
6	<u>RADIO</u>	O	Radio block power supply control signal output    L : Radio on
7	<u>M-NAR</u>	I	Melody IC NAR signal input
8	<u>M-RST</u>	O	Melody IC reset signal output
9	<u>M-ST</u>	O	Melody IC strobe signal output
10	M-I0	O	Melody IC interface 0 data output
11	M-I1	O	Melody IC interface 1 data output
12	M-I2	O	Melody IC interface 2 data output
13	<u>FL-RST</u>	O	Reset signal output to the fluorescent indicator tube display drive IC (IC601)
14	<u>CP</u>	O	Clock pulse output to the fluorescent indicator tube display drive IC (IC601)
15	<u>CD-LAMP</u>	O	CD lamp (LAMP board) on/off signal output
16	DA	O	Serial data output to the fluorescent indicator tube display drive IC (IC601)
17	<u>CS</u>	O	Chip enable signal output to the fluorescent indicator tube display drive IC (IC601)
18,19	NC	—	Not used
20	FL-CON	O	FL 5V regulator control signal output
21	RY-CON	O	Relay (RY901 on POWER board) on/off control signal output
22 – 27	NC	—	Not used
28	JOG-A	I	Rotary encoder (RV801) input terminal (A/D input)
29	JOB-B	I	Rotary encoder (RV801) input terminal (A/D input)
30	<u>RST</u>	I	System reset signal input from the reset signal generator (IC403)    "L": reset
31	EXTAL	O	Main system clock output terminal (8 MHz)
32	XTAL	I	Main system clock input terminal (8 MHz)
33	VSS	—	Ground terminal
34	TX	I	Sub system clock input terminal (32.768 kHz)
35	TEX	O	Sub system clock output terminal (32.768 kHz)
36	AVSS	—	Ground terminal (for A/D converter)
37	AVREF	—	Reference voltage (+3.3V) input terminal (for A/D converter)
38	R-SHIFT	O	System clock shift output.
39	INIT	O	Destination check output
40	SIMUKE	I	Destination setting terminal
41 – 43	KEY1-KEY3	I	Key input terminal (A/D input)
44	C-MUTE	O	Muting on/off control signal output for the CD playback signal    "L": muting on
45	OP/CL	I	CD tray open/close detect input.
46	INPUT1	O	Loading motor control output.
47	INPUT2	O	Loading motor control output.
48	RDS-CLK	O	RDS serial data transfer clock signal input from the RDS decoder (Not used)
49	RDS-DATA	O	RDS serial data input from the RDS decoder (Not used)
50	RDS-QUAL	O	RDS QUAL input from the RDS decoder (Not used)
51	C-SQCK	O	Sub-code Q data reading clock signal output to the CD DSP IC (IC702)
52	C-SQSO	O	Sub-code Q data input from the CD DSP IC (IC702)
53	NC	—	Not used
54	SENSE2	I	Internal status (SENSE) input from the CD DSP IC (IC702)
55	SENSE1	I	Internal status (SENSE) input from the CD DSP IC (IC702)

Pin No.	Pin Name	I/O	Pin Description
56	RMC	I	SIRCS remote control signal input from the remote control receiver (IC602)
57	NC	—	Not used
58	C-DATA	O	Serial data output to the CD DSP IC (IC702)
59	C-XLAT	O	Serial data latch pulse signal output to the CD DSP IC (IC702)
60	C-XRST	O	Reset signal output to the CD RF AMP (IC701), CD DSP IC (IC702)
61	C-SCOR	I	Sub-code sync (S0+S1) detection signal input from the CD DSP IC (IC702)
62	C-CLK	O	Serial data transfer clock signal output to the CD DSP IC (IC702)
63	AC-CHK	I	AC power supply detection signal input “L”: AC in
64	ST-IND	I	PLL IC tuned indicator input
65	RDS-CON	O	RDS decoder IC control signal output (Not used)
66 – 70	NC	—	Not used
71	C/T-CON	O	Clock receiver decoder IC control signal output
72,73	VDD	—	Power supply terminal (+3.3V)
74	A-MUTE	O	Audio muting on/off control signal output “H”: muting on
75	P-CON	O	Power on/off control signal output “L”: standby mode, “H”: power on
76	VR-CLK	O	Volume clock output.
77	VR-DATA	O	Volume clock output.
78	C/T TCO	I	Clock receiver signal input
79	CD	O	Function output for CD.
80	AL-CON	O	Melody IC control signal output

## 6-2. CIRCUIT BOARDS LOCATION

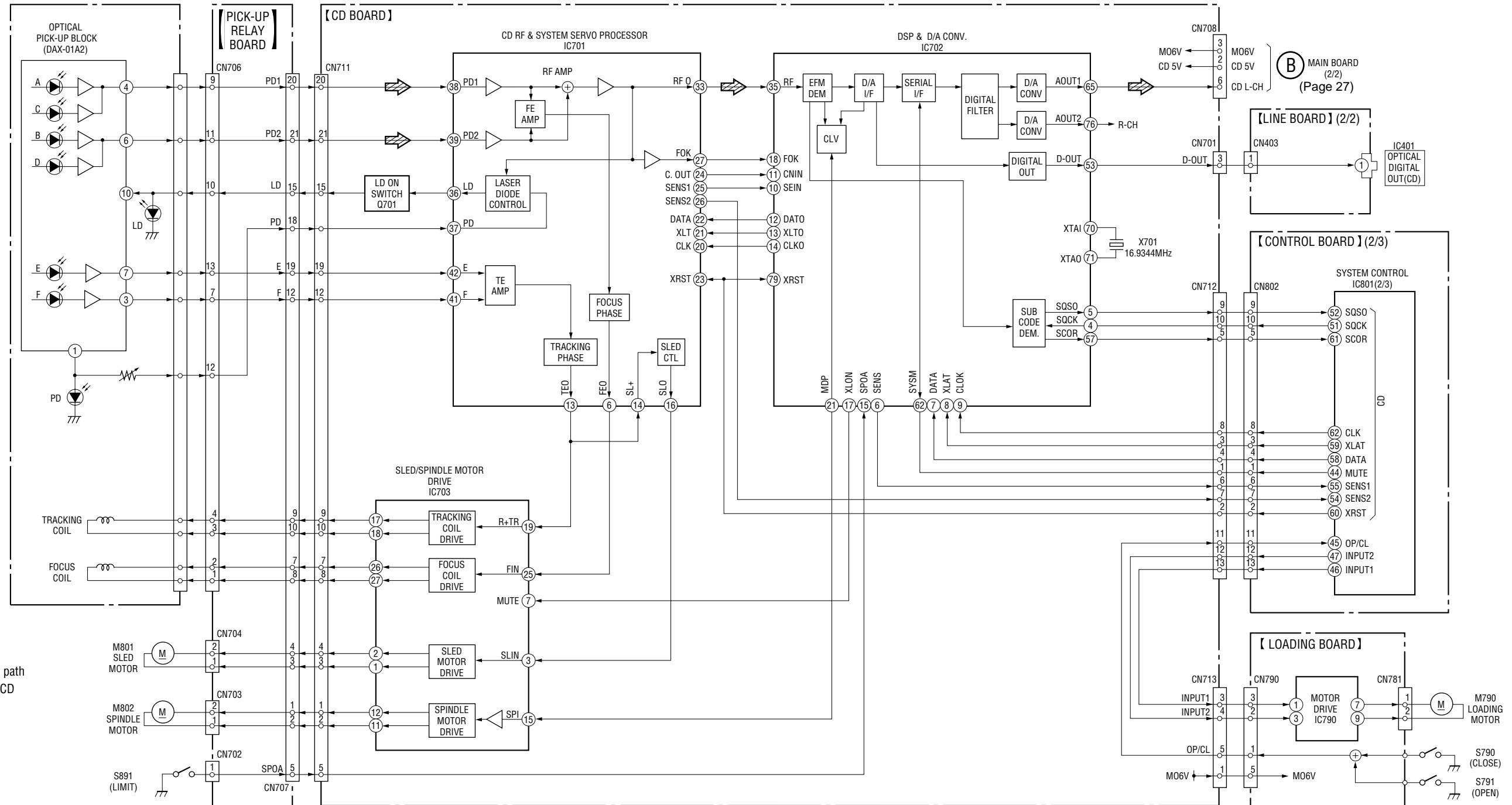


## 6-3. BLOCK DIAGRAM — TUNER SECTION —

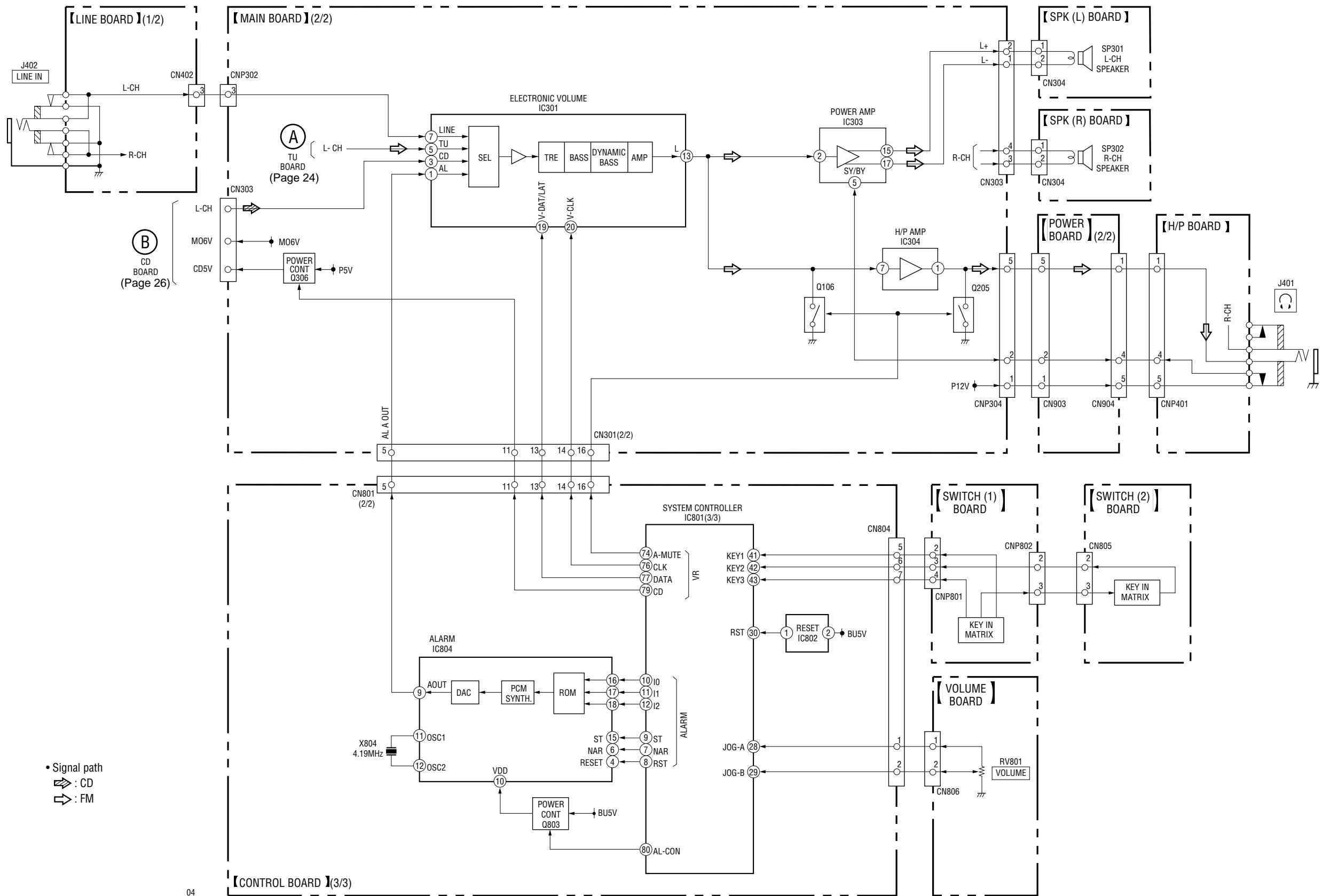


04

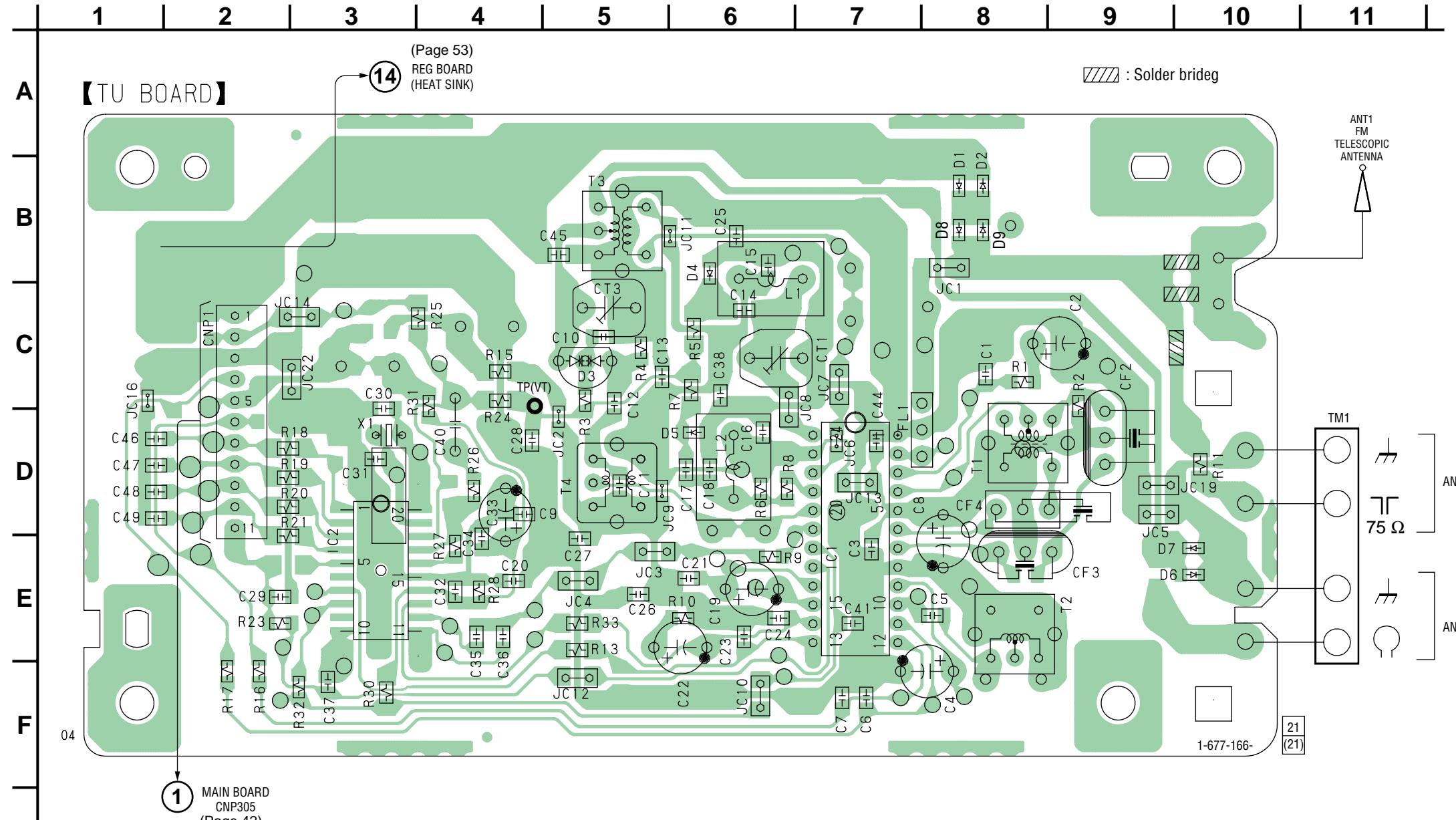
## 6-4. BLOCK DIAGRAM — CD SECTION —



## 6-5. BLOCK DIAGRAM — AUDIO SECTION —



## 6-6. PRINTED WIRING BOARD —TUNER SECTION— • Refer to page 22 for Circuit Boards Location.

**Common Note on Schematic Diagram:**

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

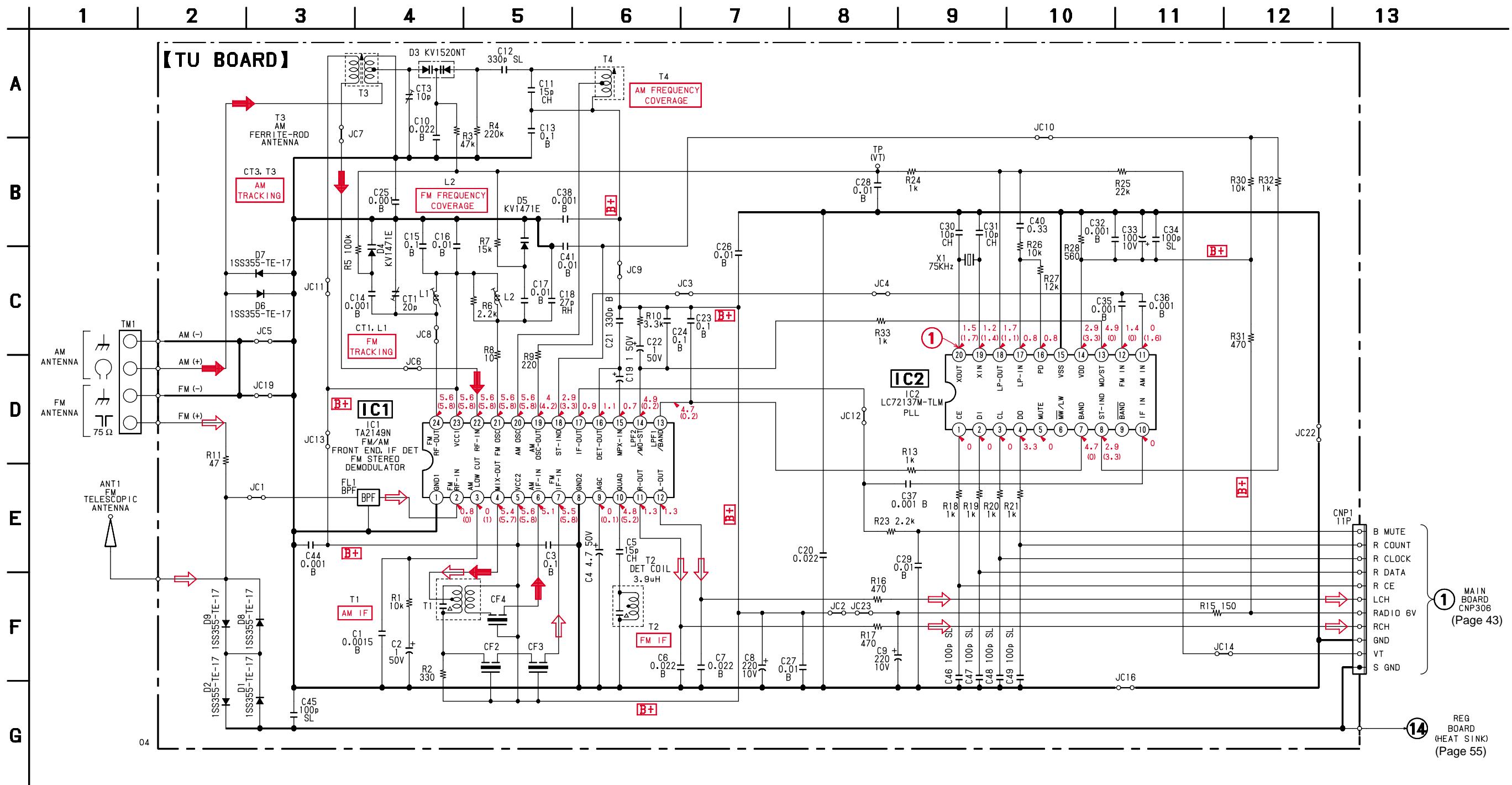
- $\text{B} +$  : B+ Line.
- $\square$  : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circle numbers refer to waveforms.
- Signal path.
- $\Rightarrow$  : FM
- $\rightarrow$  : AM
- $\Rightarrow$  : CD

**Common Note on Printed Wiring Boards:**

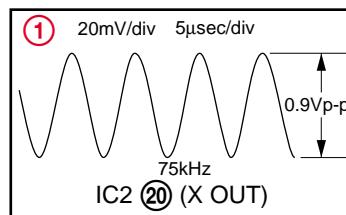
- $\circ$  : parts extracted from the component side.
- $-$  : parts extracted from the conductor side.
- $\triangle$  : internal component.
- $\blacksquare$  : Pattern from the side which enables seeing.

**6-7. SCHEMATIC DIAGRAM — TUNER SECTION —**

- Refer to page 56 for IC Block Diagrams.
- Refer to page 29 for Note.



• Waveform

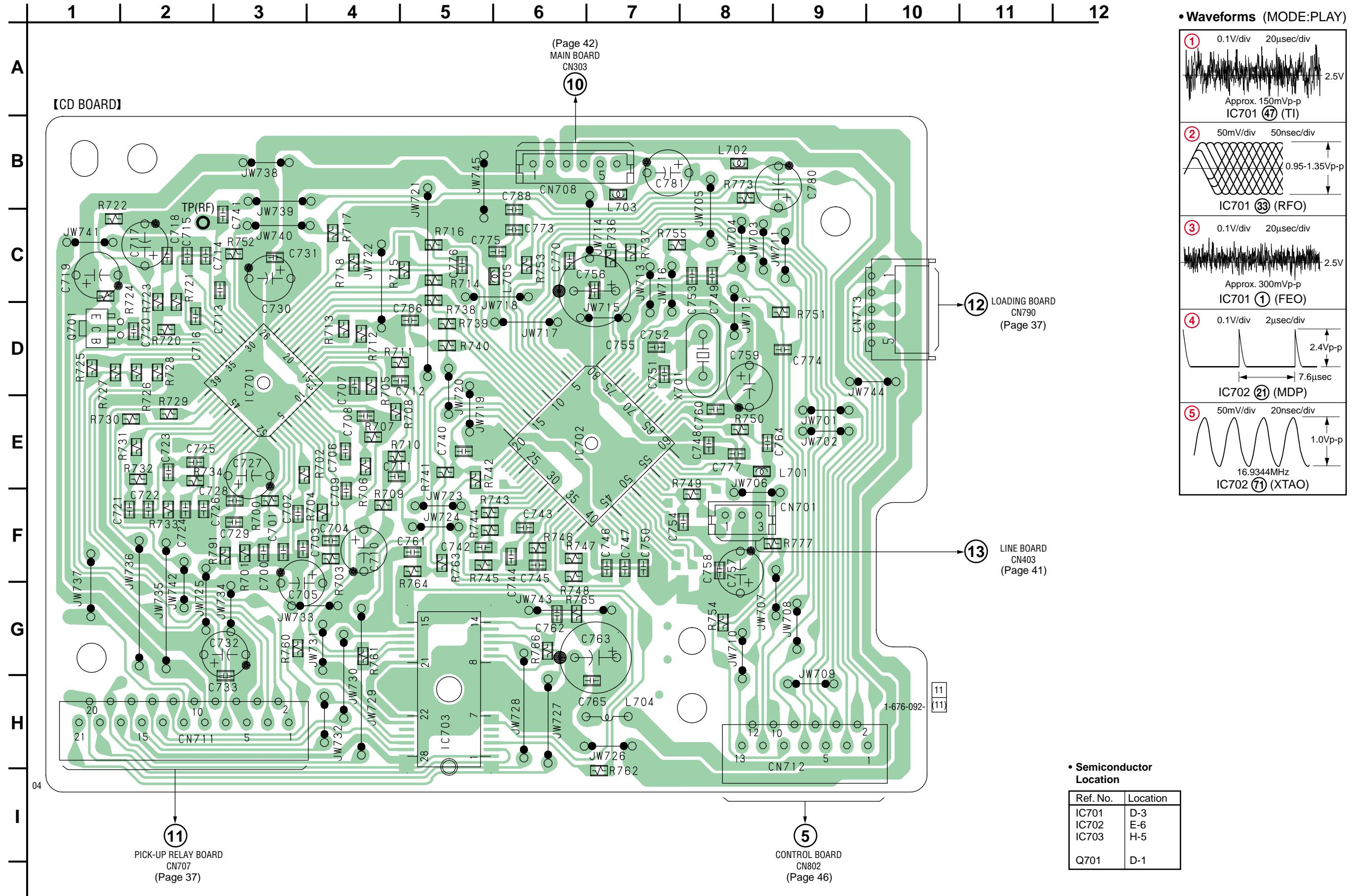


Note on Schematic Diagram:

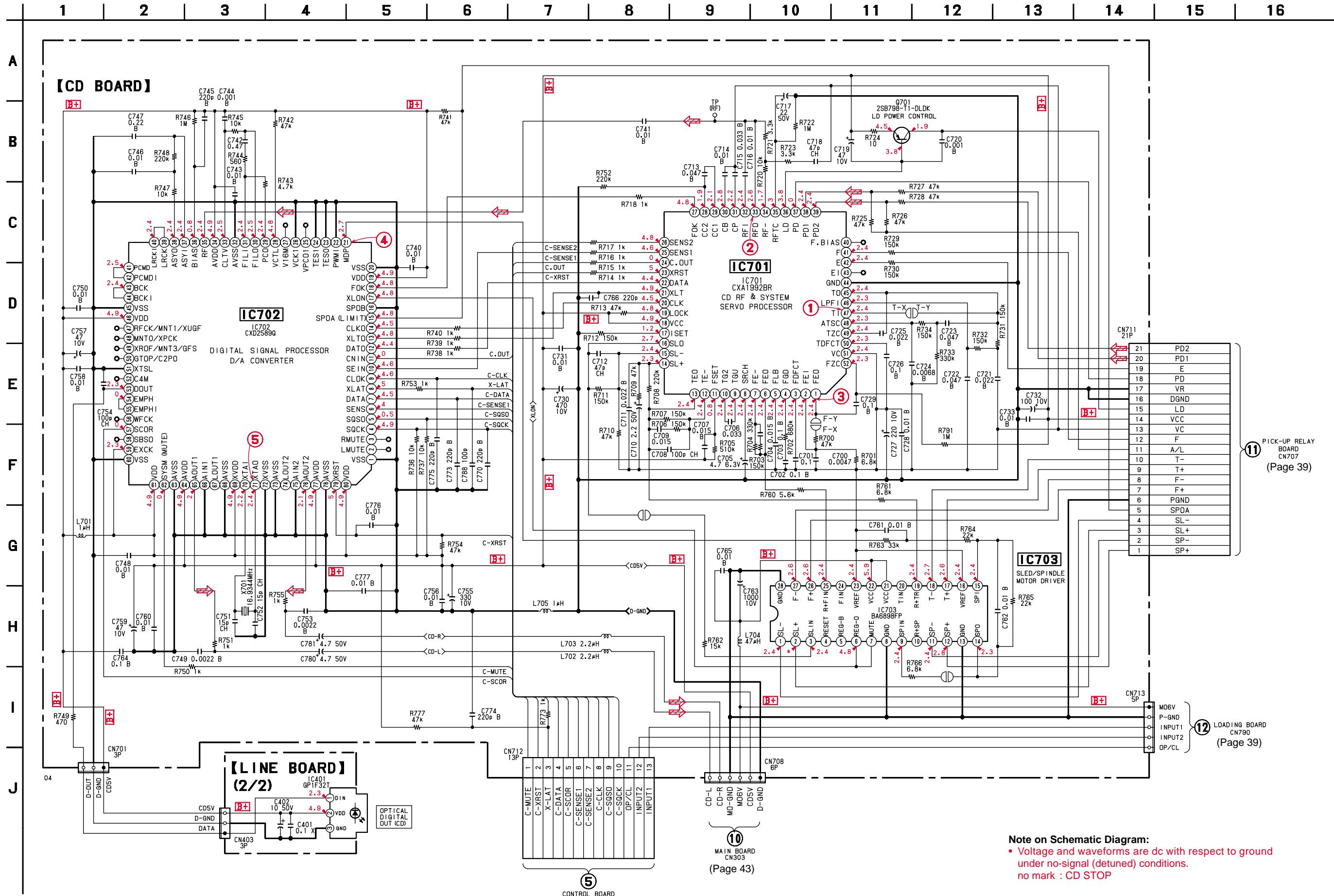
- Voltage is dc with respect to ground under no-signal (detuned) condition.
- no mark : FM
- ( ) : AM

**6-8. PRINTED WIRING BOARD — CD SECTION —**

- Refer to page 22 for Circuit Boards Location.
- Refer to page 29 for Note.

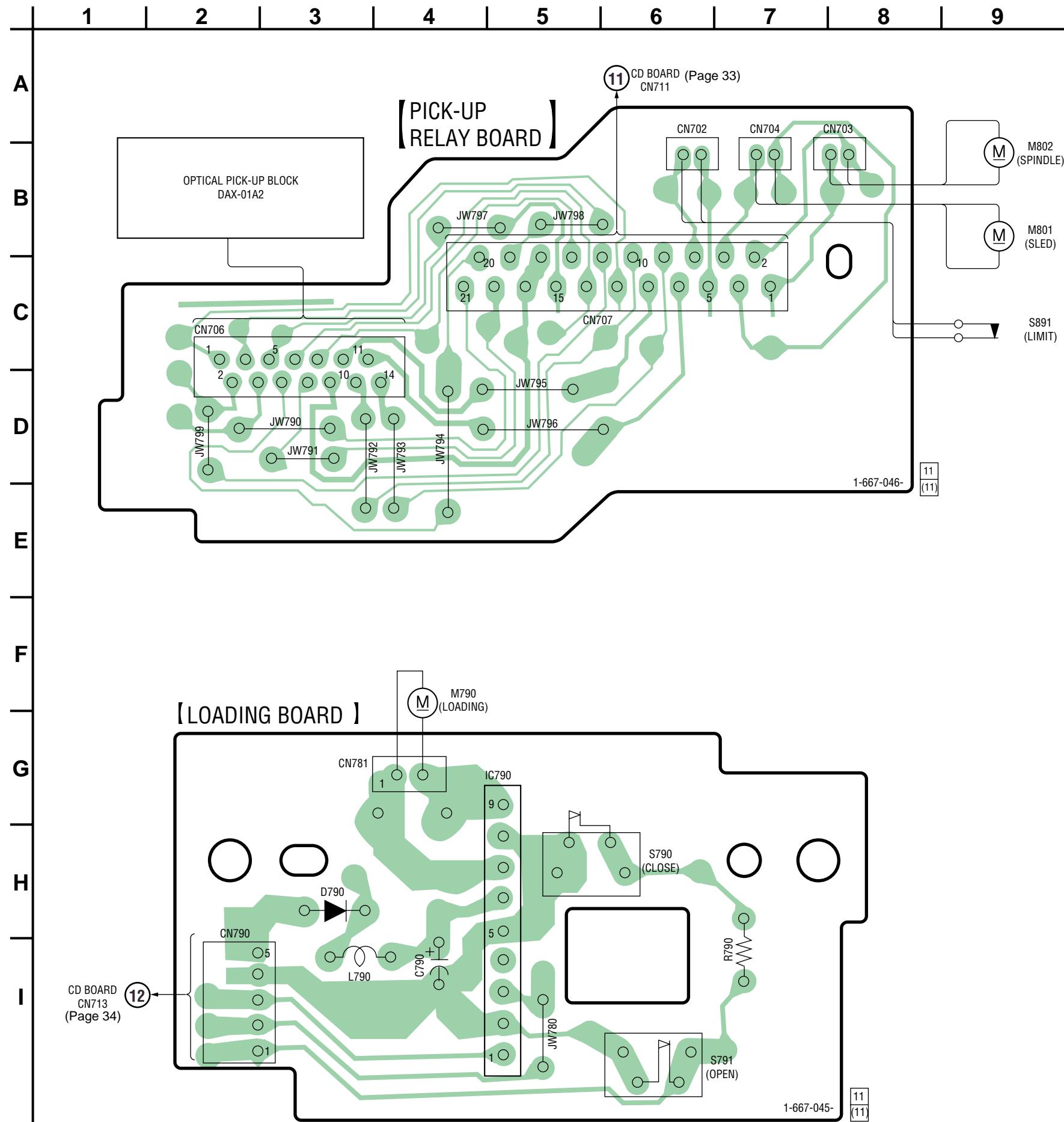


6-9. SCHEMATIC DIAGRAMS — CD SECTION — • Refer to page 57 for IC Block Diagrams.  
• Refer to page 29 for Note.



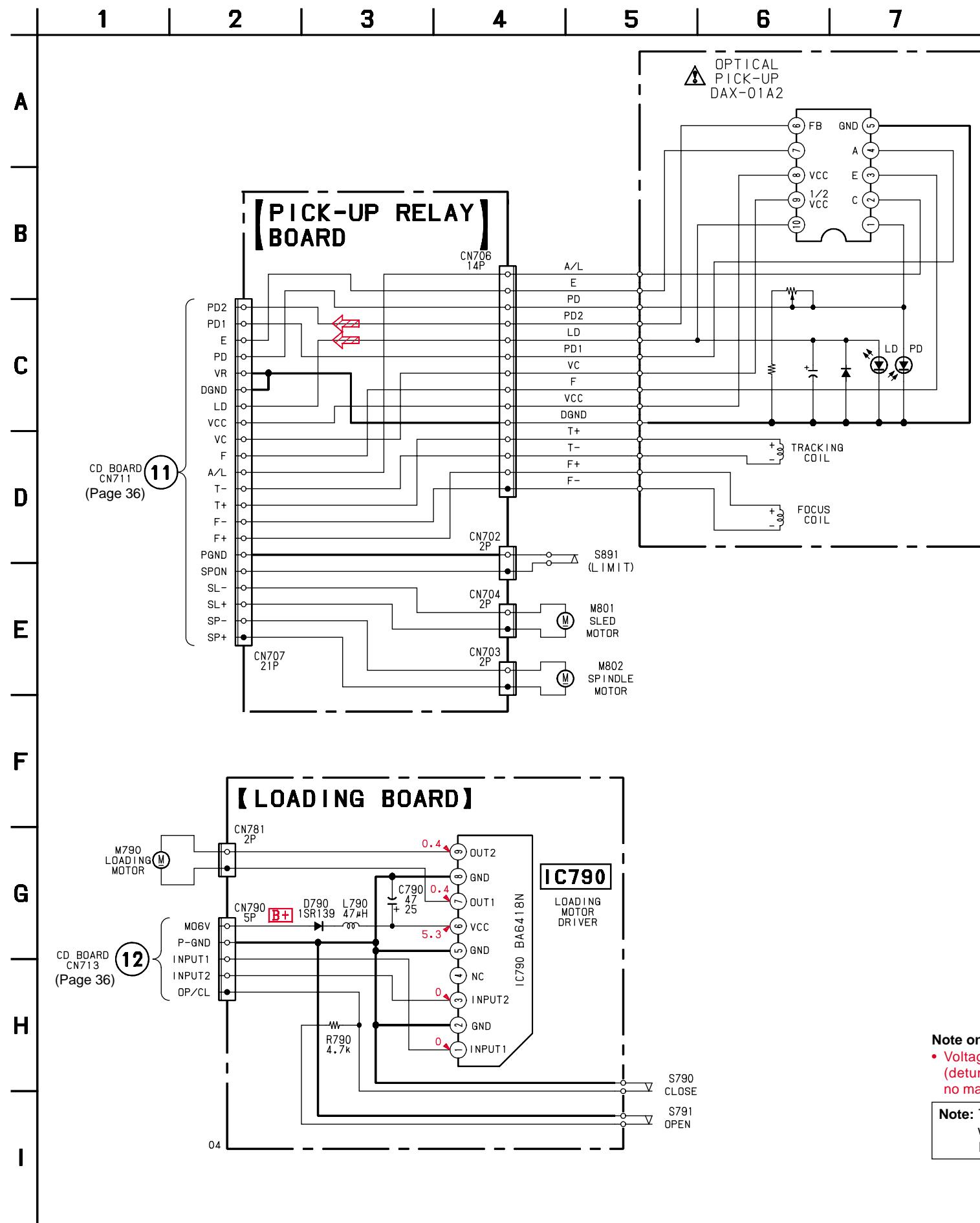
**6-10. PRINTED WIRING BOARDS — PICK-UP SECTION —**

- Refer to page 22 for Circuit Boards Location.
- Refer to page 29 for Note.



**6-11. SCHEMATIC DIAGRAMS — PICK-UP SECTION —**

- Refer to page 56 for IC Block Diagrams.
- Refer to page 29 for Note.



**Note on Schematic Diagram:**

- Voltage is dc with respect to ground under no-signal (detuned) condition.  
no mark : CD STOP

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

## 6-12. PRINTED WIRING BOARDS — MAIN SECTION —

- Refer to page 22 for Circuit Boards Location.
- Refer to page 29 for Note.

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

A

## • Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D301	E-7	Q300	D-9
D302	E-7	Q301	F-10
D303	G-11	Q302	E-9
D304	G-11	Q303	F-8
D305	H-6	Q304	F-9
D306	H-6	Q305	H-5
D307	E-6	Q306	G-11
D308	D-6	Q307	E-9
D309	E-9	Q308	E-8
D310	E-13	Q309	G-13
IC301	D-11	Q311	G-12
IC303	F-9	Q312	H-12
IC304	C-8	Q313	G-13
IC305	C-7	Q353	E-6
IC401	G-2	Q357	C-7
Q105	G-6	Q358	D-7
Q106	E-11	Q359	E-7
Q205	G-6	Q361	D-5
Q206	E-12	Q362	

B

C

D

E

F

G

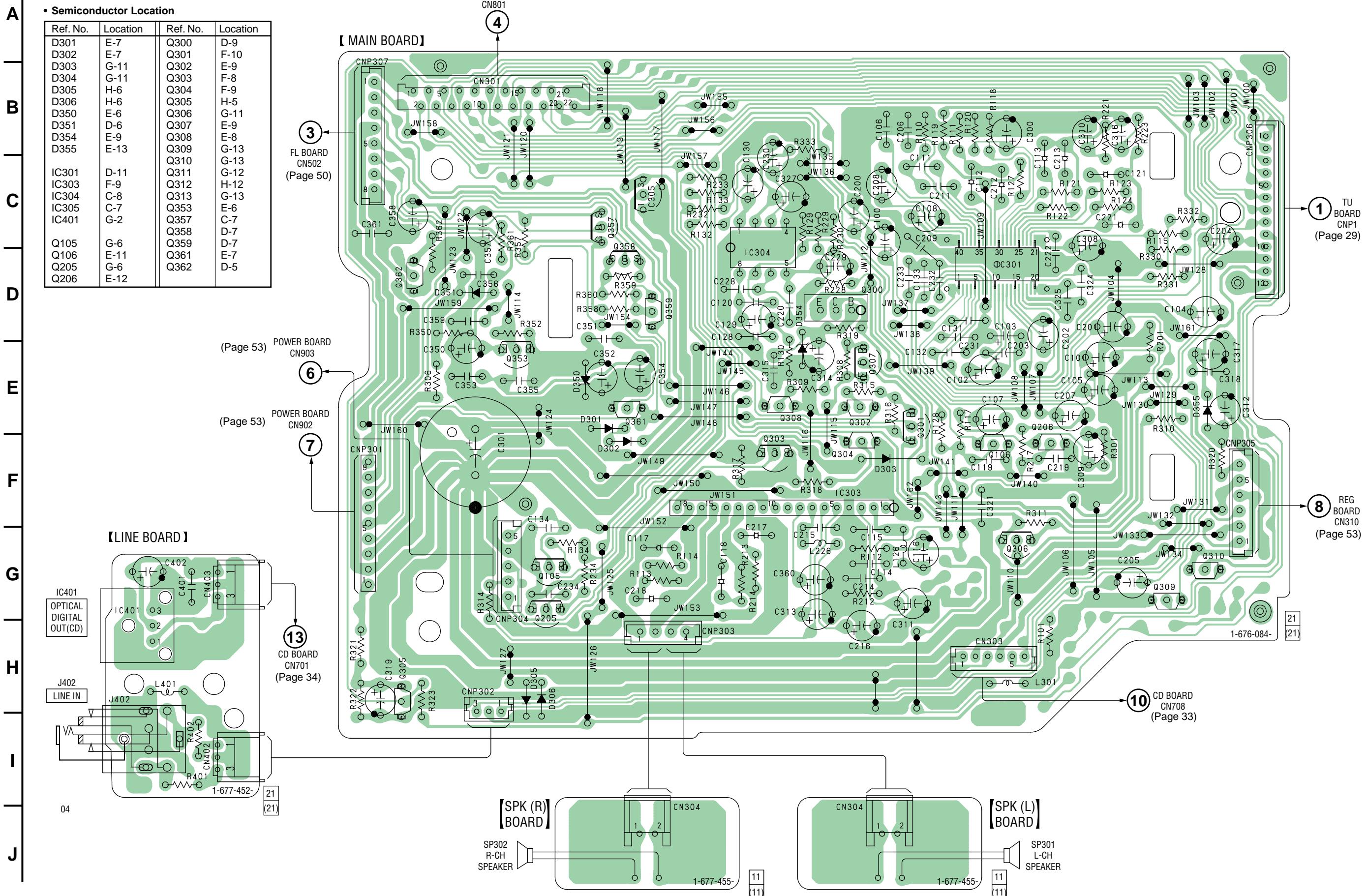
H

I

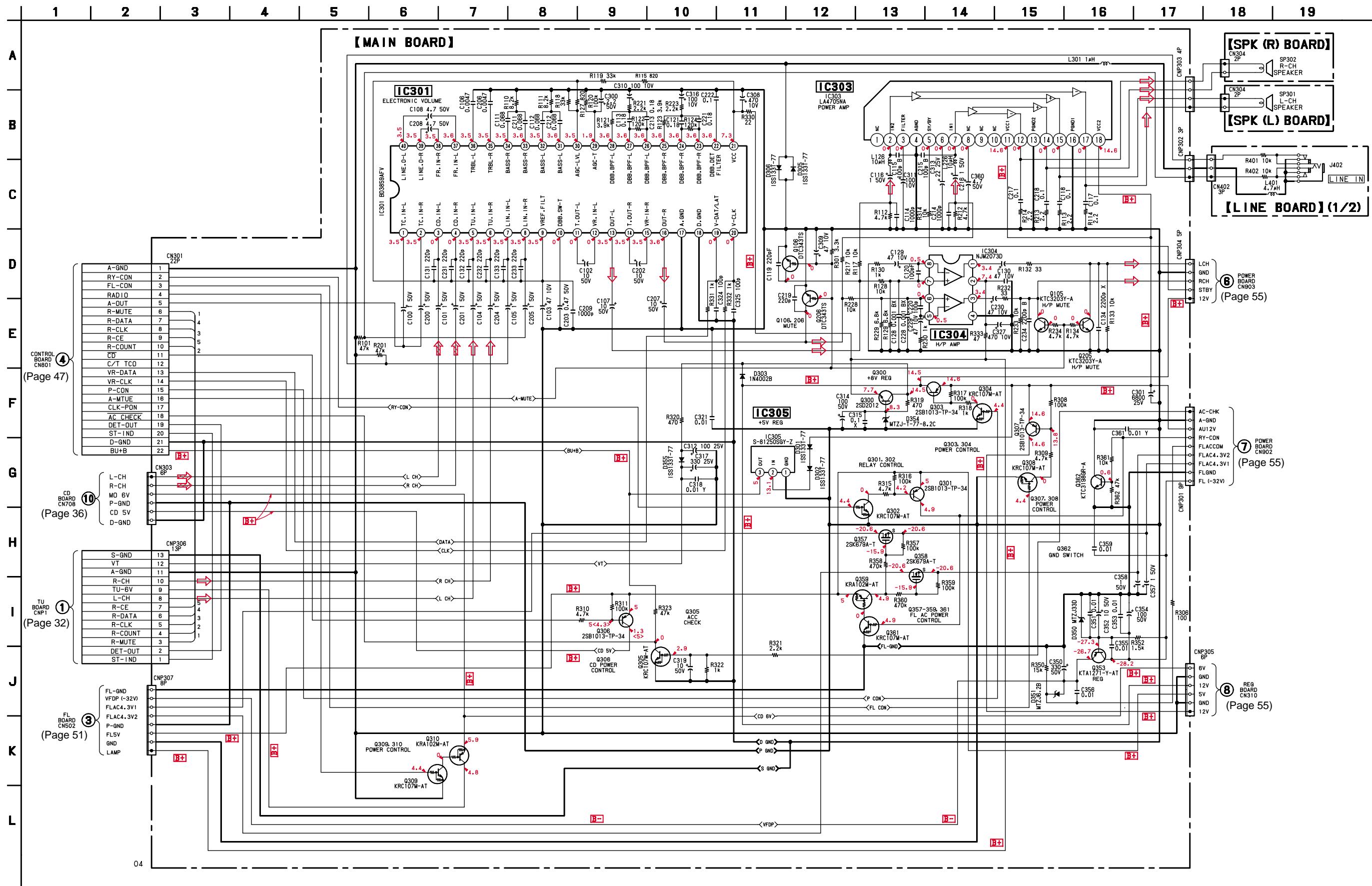
J

(Page 45)  
CONTROL BOARD  
CN801

4



- 6-13. SCHEMATIC DIAGRAMS — MAIN SECTION —
- Refer to page 59 for IC Block Diagrams.
  - Refer to page 29 for Note.

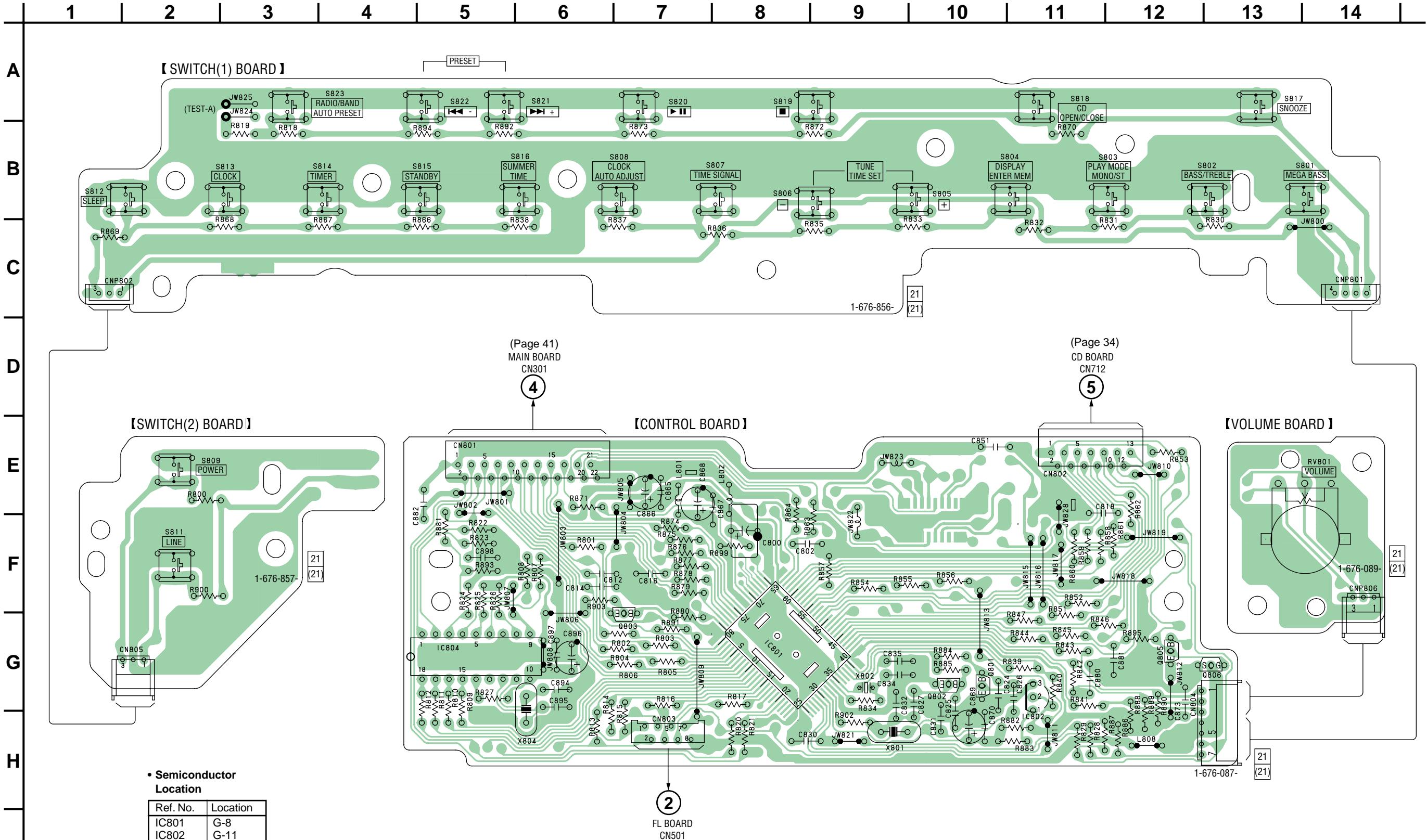


Note on Schematic Diagram:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
- no mark : FM

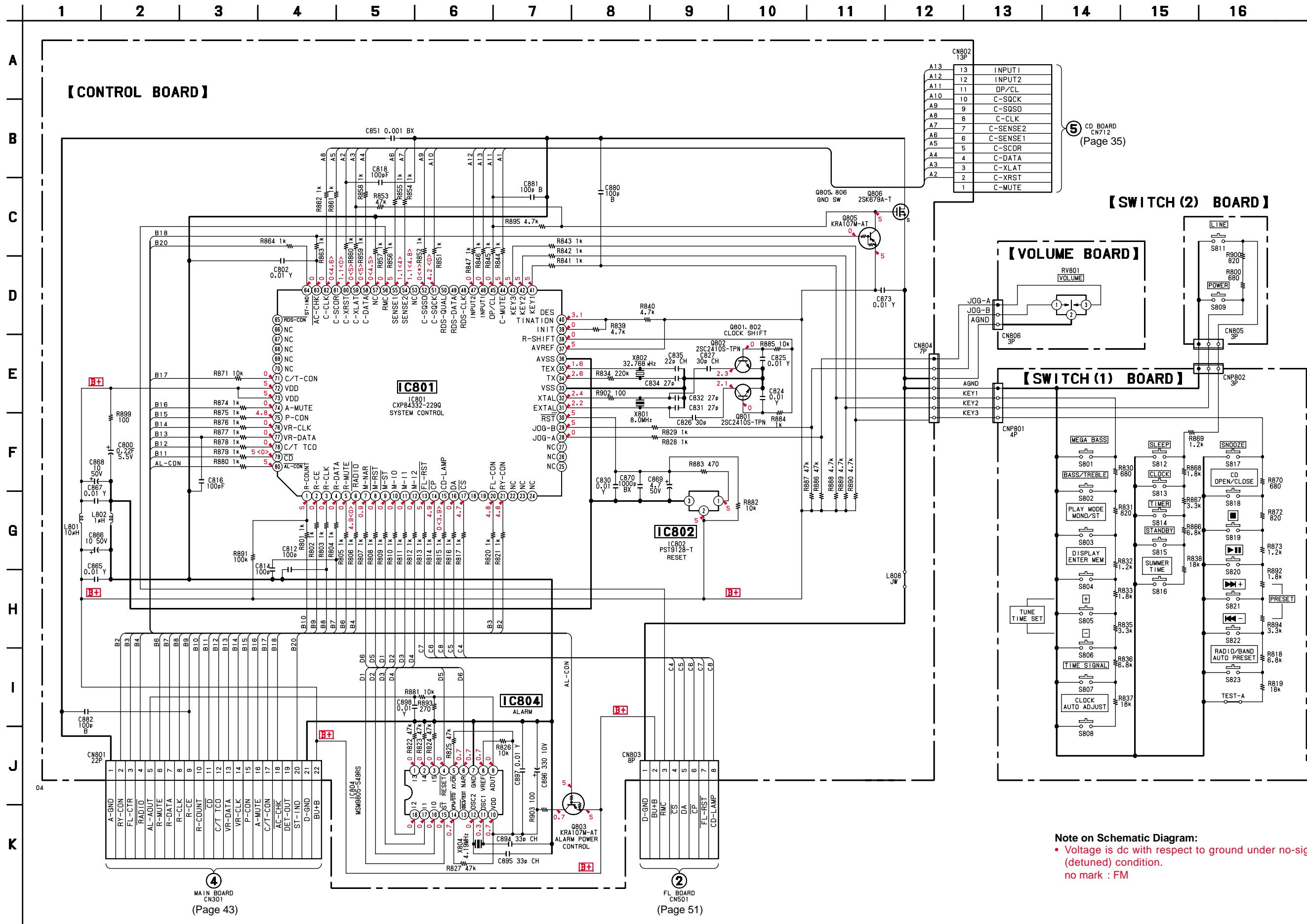
**6-14. PRINTED WIRING BOARDS — CONTROL SECTION —**

- Refer to page 22 for Circuit Boards Location.
- Refer to page 29 for Note.



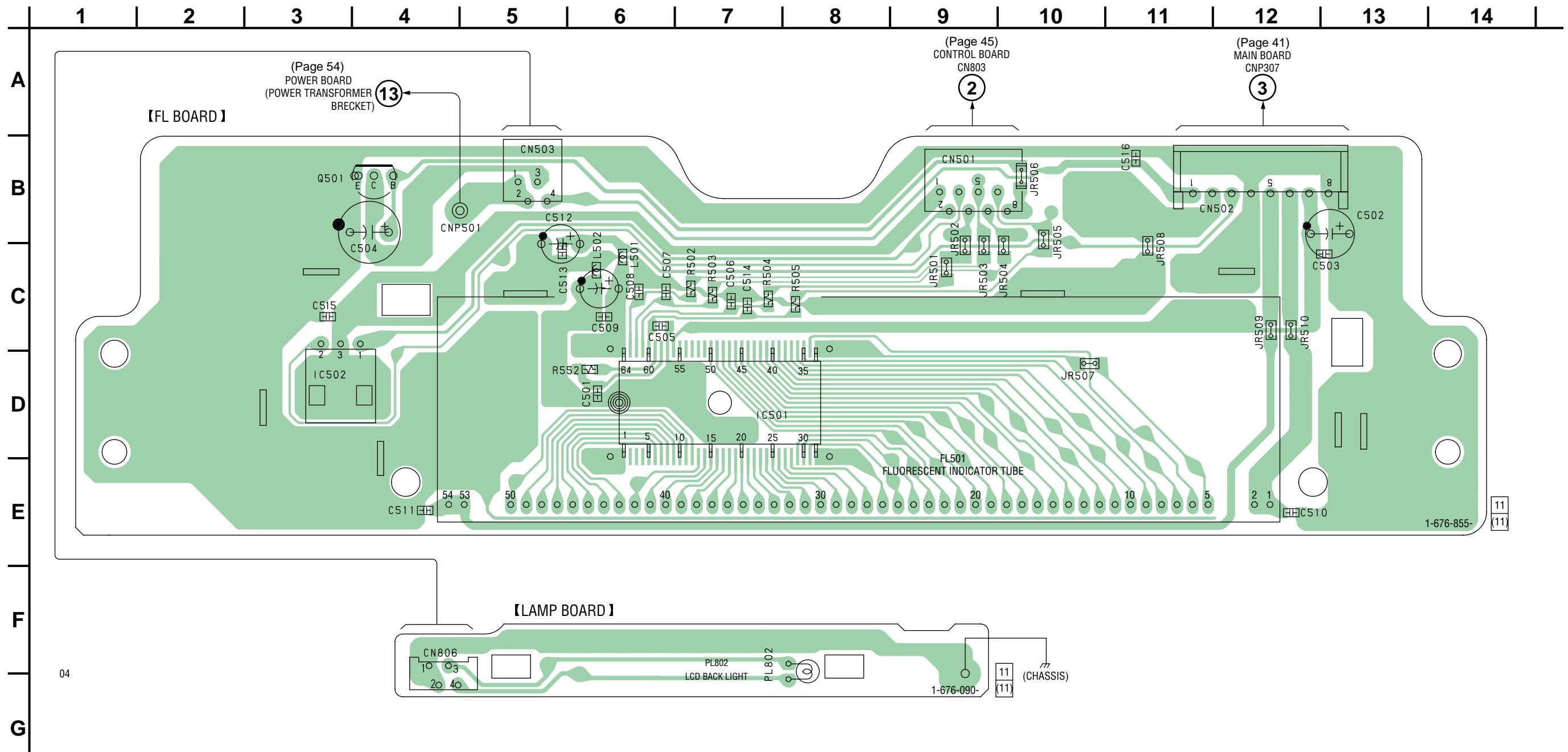
**6-15. SCHEMATIC DIAGRAMS — CONTROL SECTION —**

- Refer to page 59 for IC Block Diagrams.
- Refer to page 29 for Note.

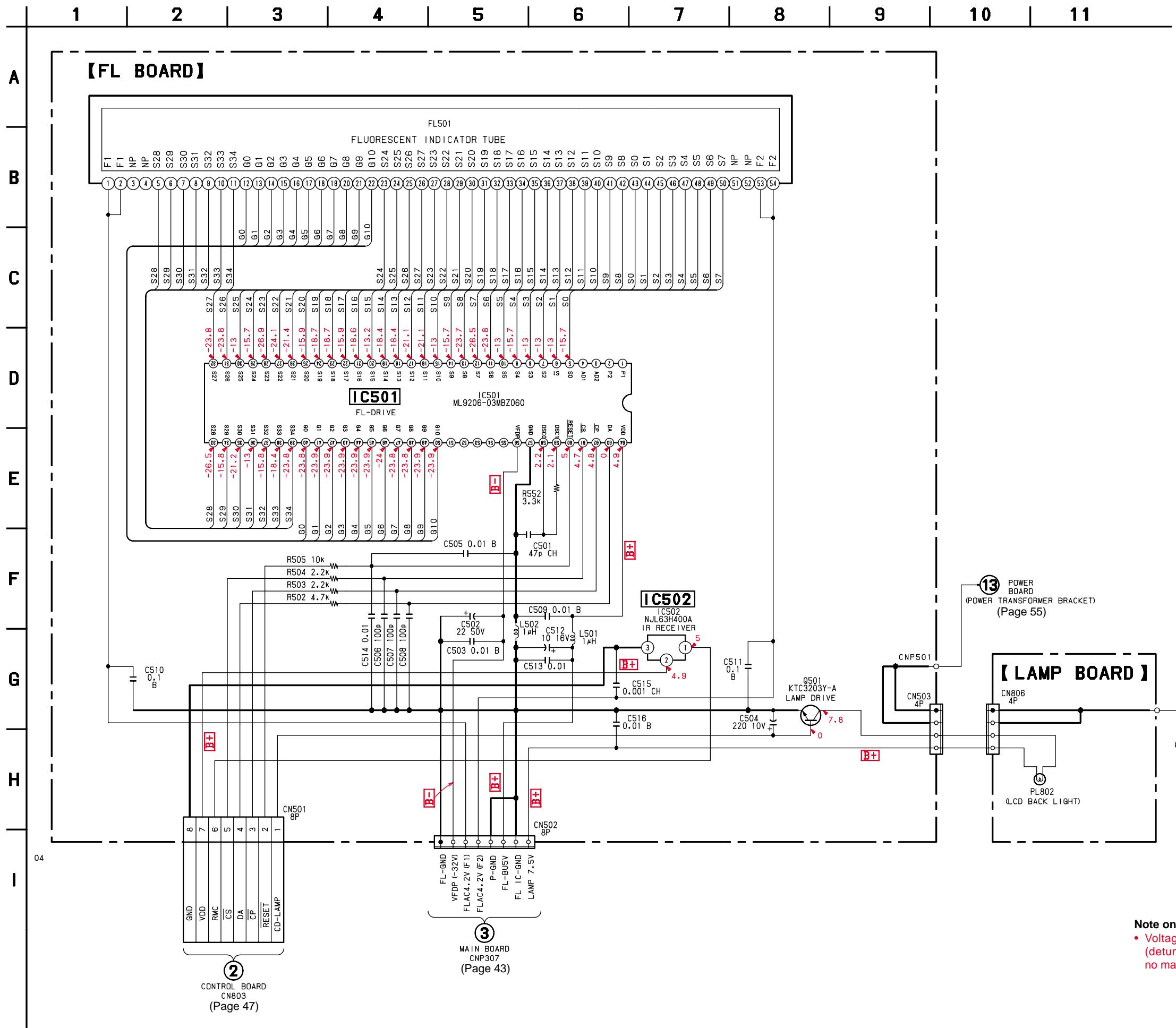


**6-16. PRINTED WIRING BOARDS — DISPLAY SECTION —**

- Refer to page 22 for Circuit Boards Location.
- Refer to page 29 for Note.



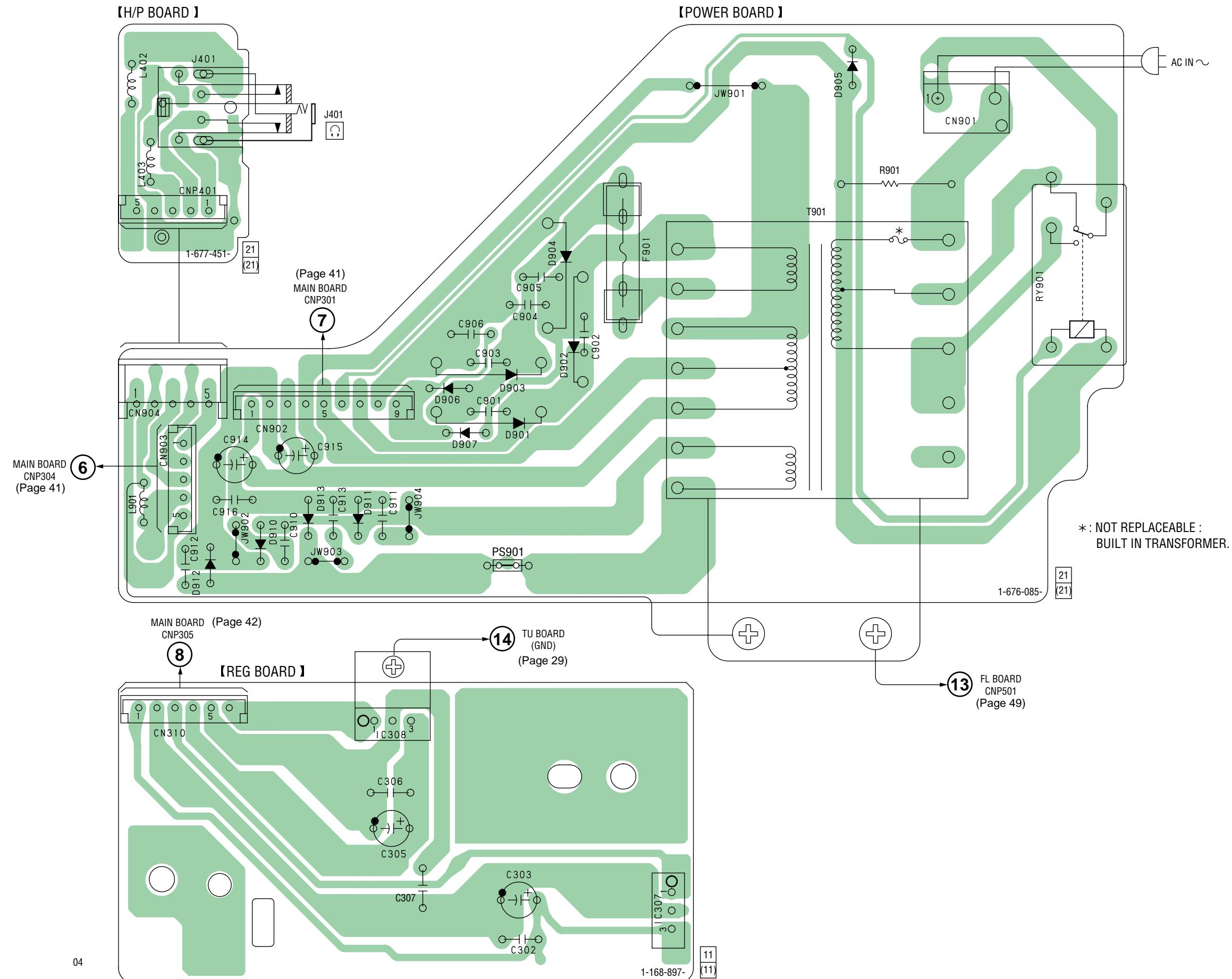
## 6-17. SCHEMATIC DIAGRAMS — DISPLAY SECTION — • Refer to page 29 for Note.



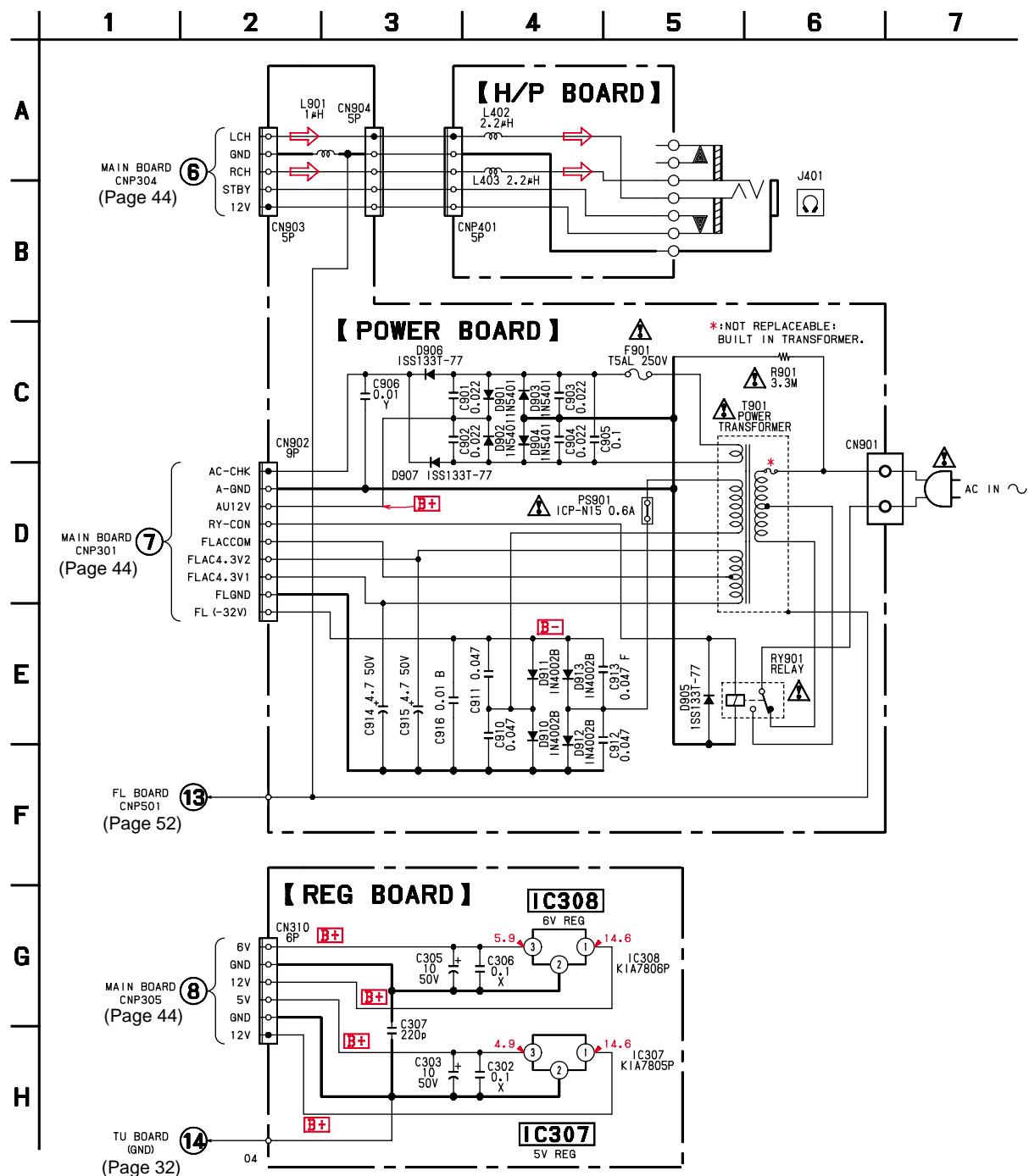
**6-18. PRINTED WIRING BOARDS — POWER SUPPLY SECTION —**

- Refer to page 22 for Circuit Boards Location.
- Refer to page 29 for Note.

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



**6-19. SCHEMATIC DIAGRAMS — POWER SUPPLY SECTION — • Refer to page 29 for Note.**



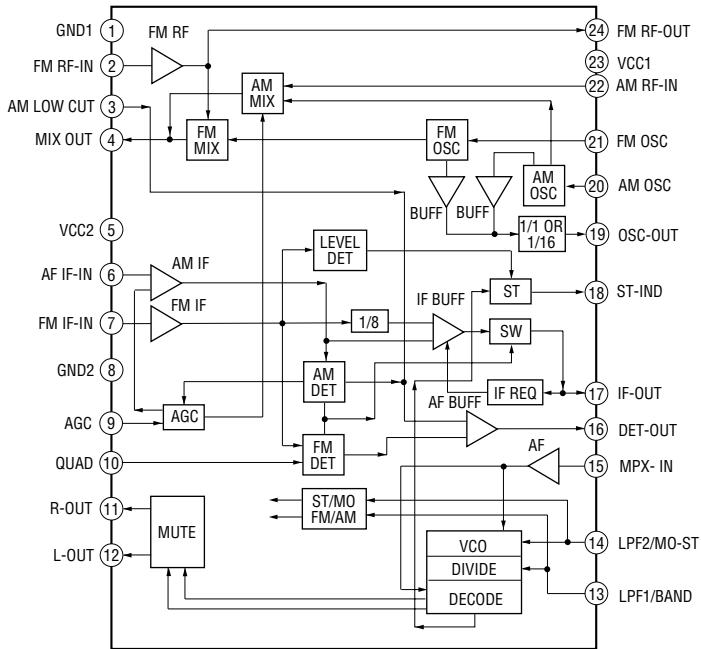
**Note on Schematic Diagram:**

- Voltage is dc with respect to ground under no-signal (detuned) condition.  
no mark : FM

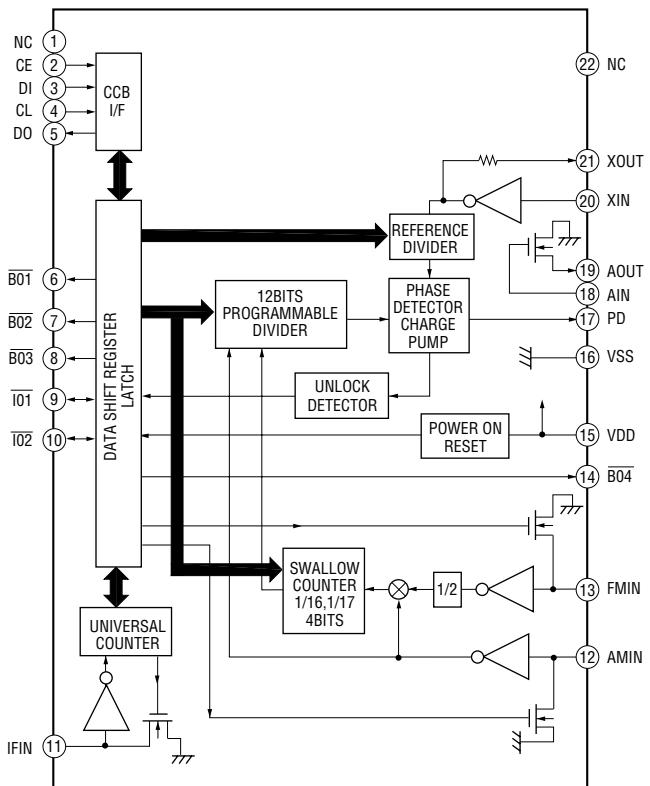
**Note:** The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety.  
Replace only with part number specified.

• IC BLOCK DIAGRAM

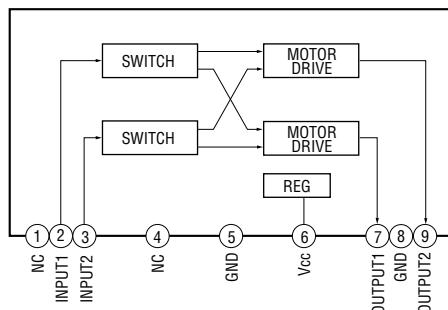
**IC1 TA2149N**



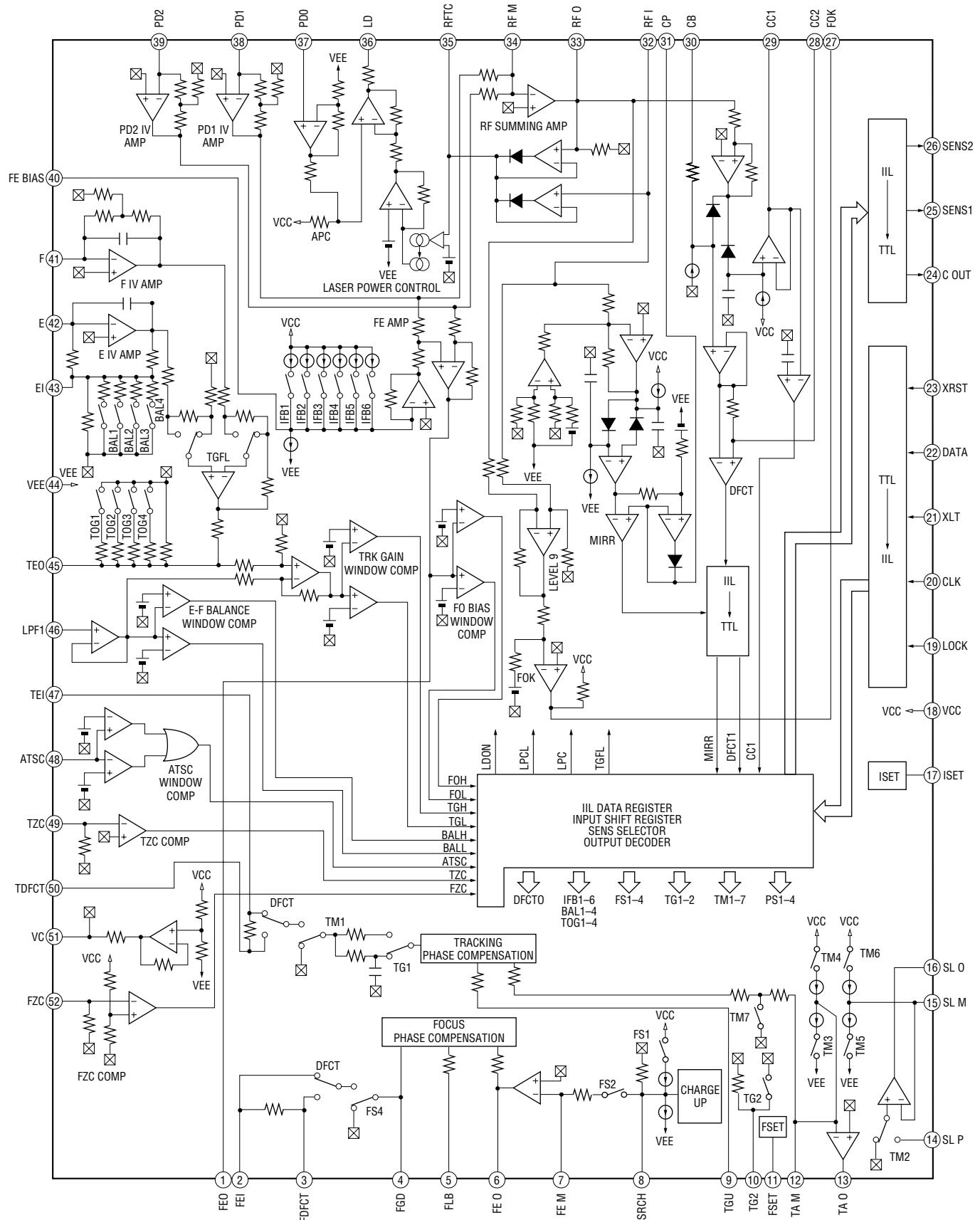
**IC2 LC72137M-TLM**



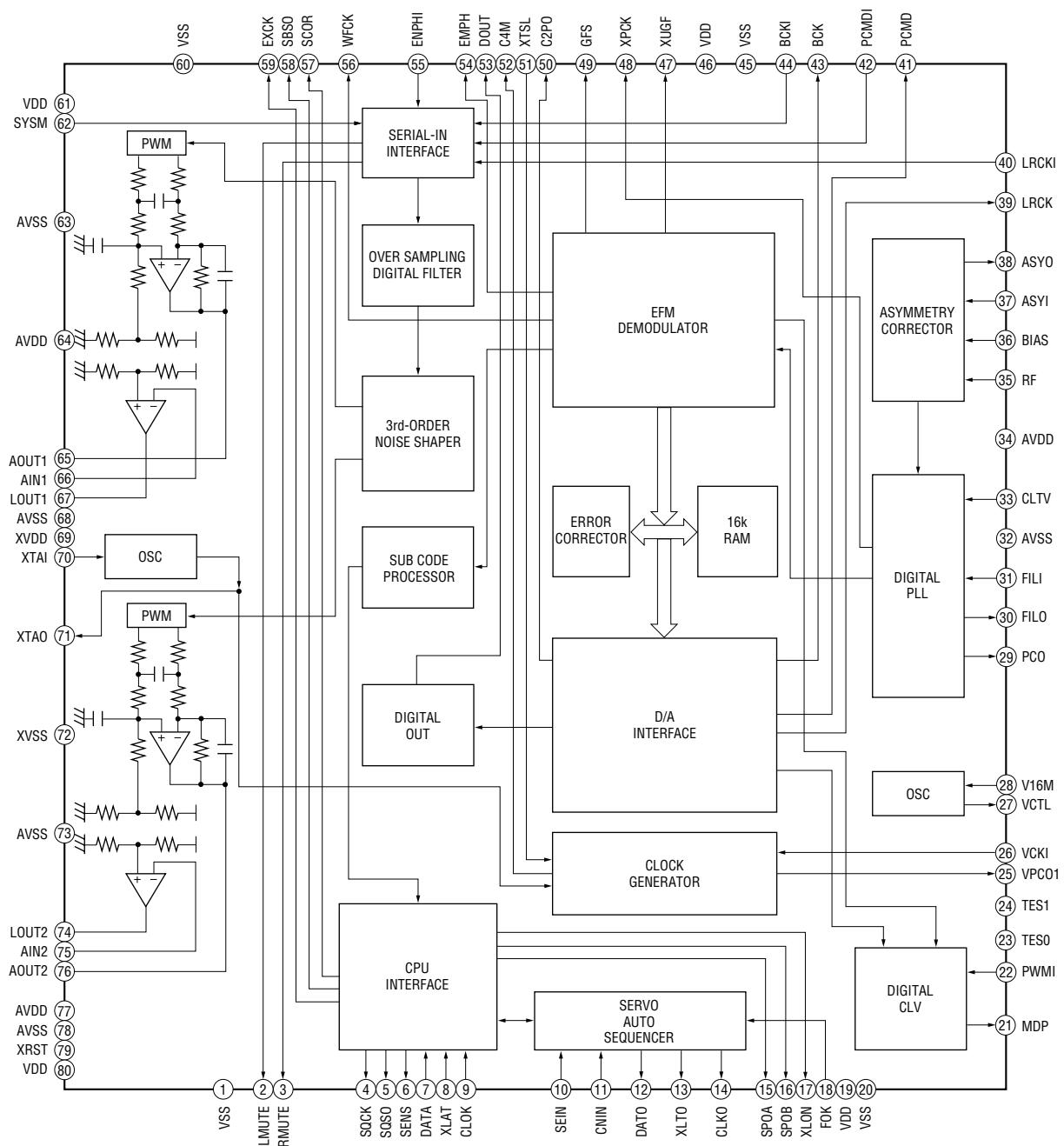
**IC790 BA6418N**



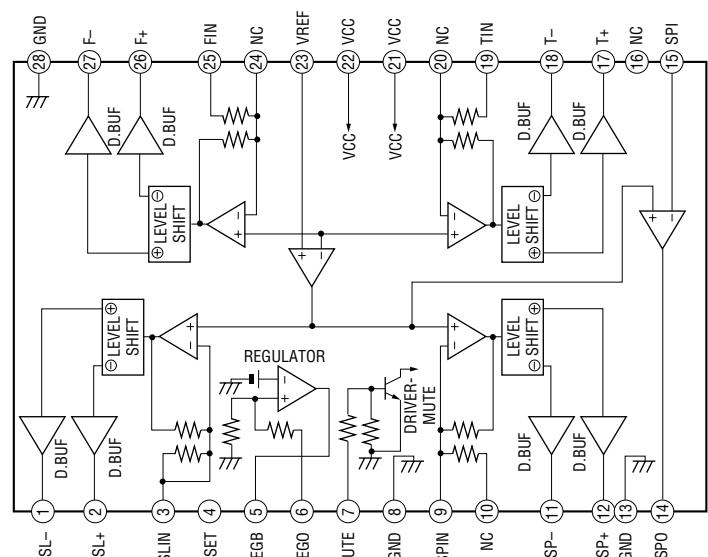
## IC701 CXA1992BR



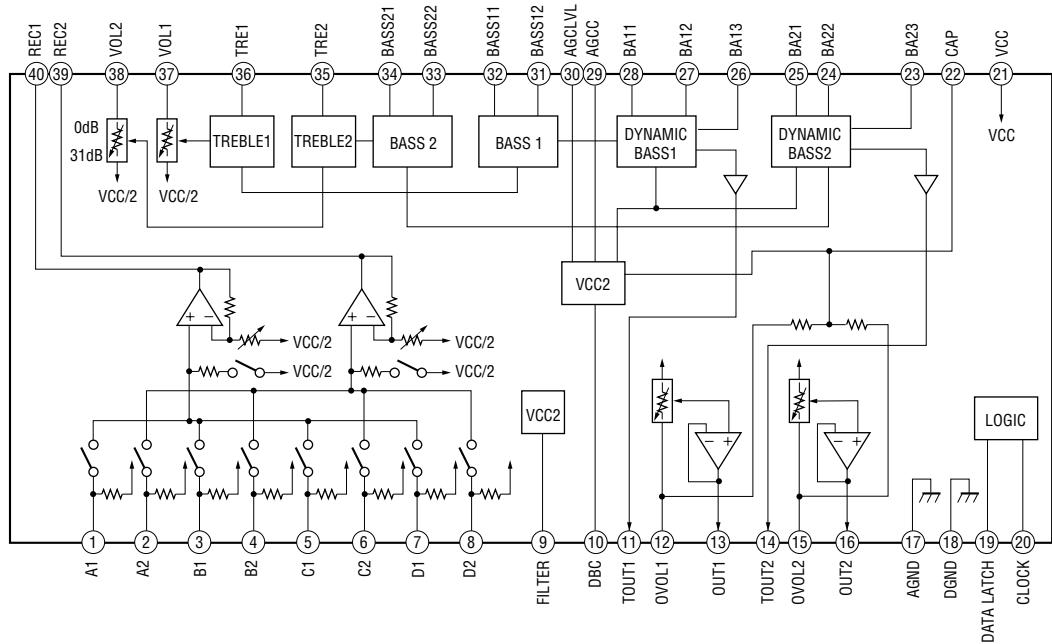
**IC702 CXD2589Q**



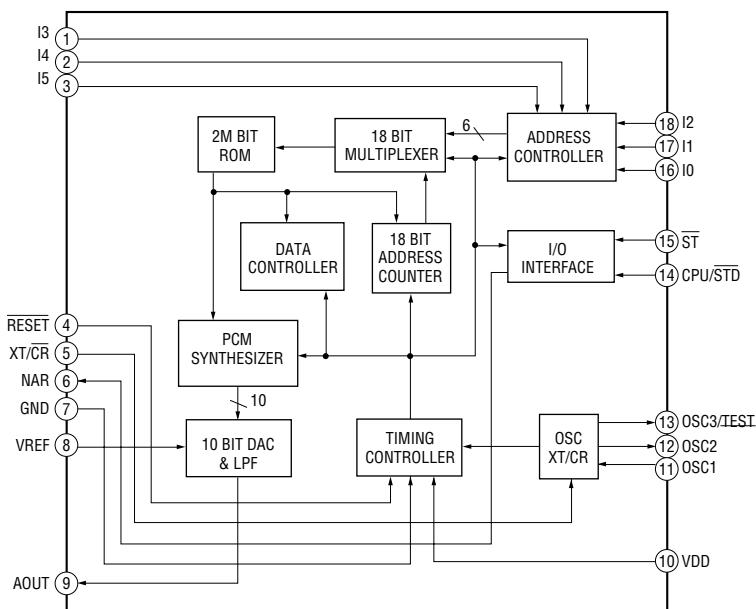
**IC703 BA6898FP**



### IC301 BD3859AFV



### IC804 MSM9805-549RS



## SECTION 7 EXPLODED VIEWS

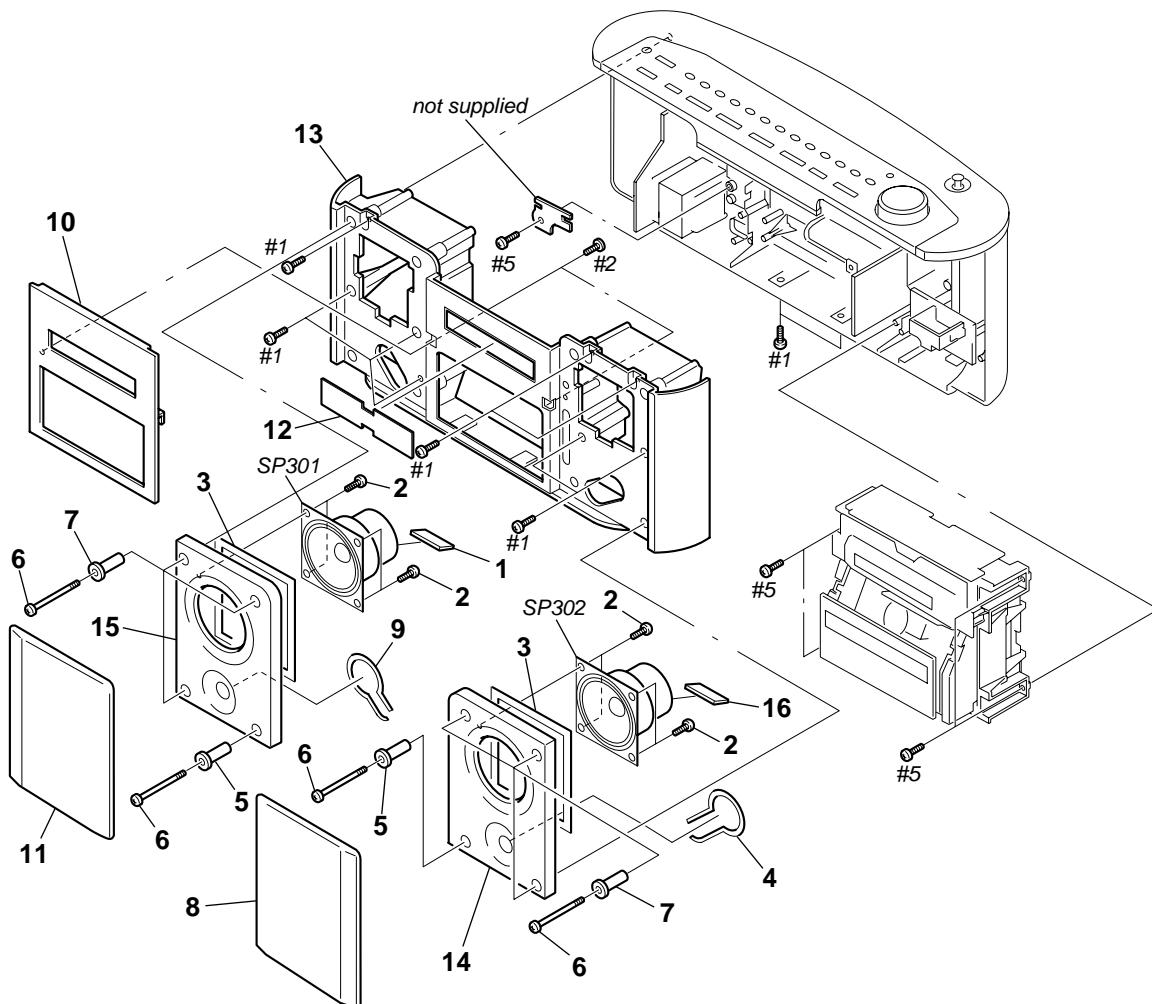
**NOTE:**

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “\*\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Color Indication of Appearance Parts  
Example :  
KNOB, BALANCE (WHITE) ... (RED)  
↑                                   ↑  
Parts Color Cabinet's Color
- Accessories and packing materials are given in the last of this parts list.

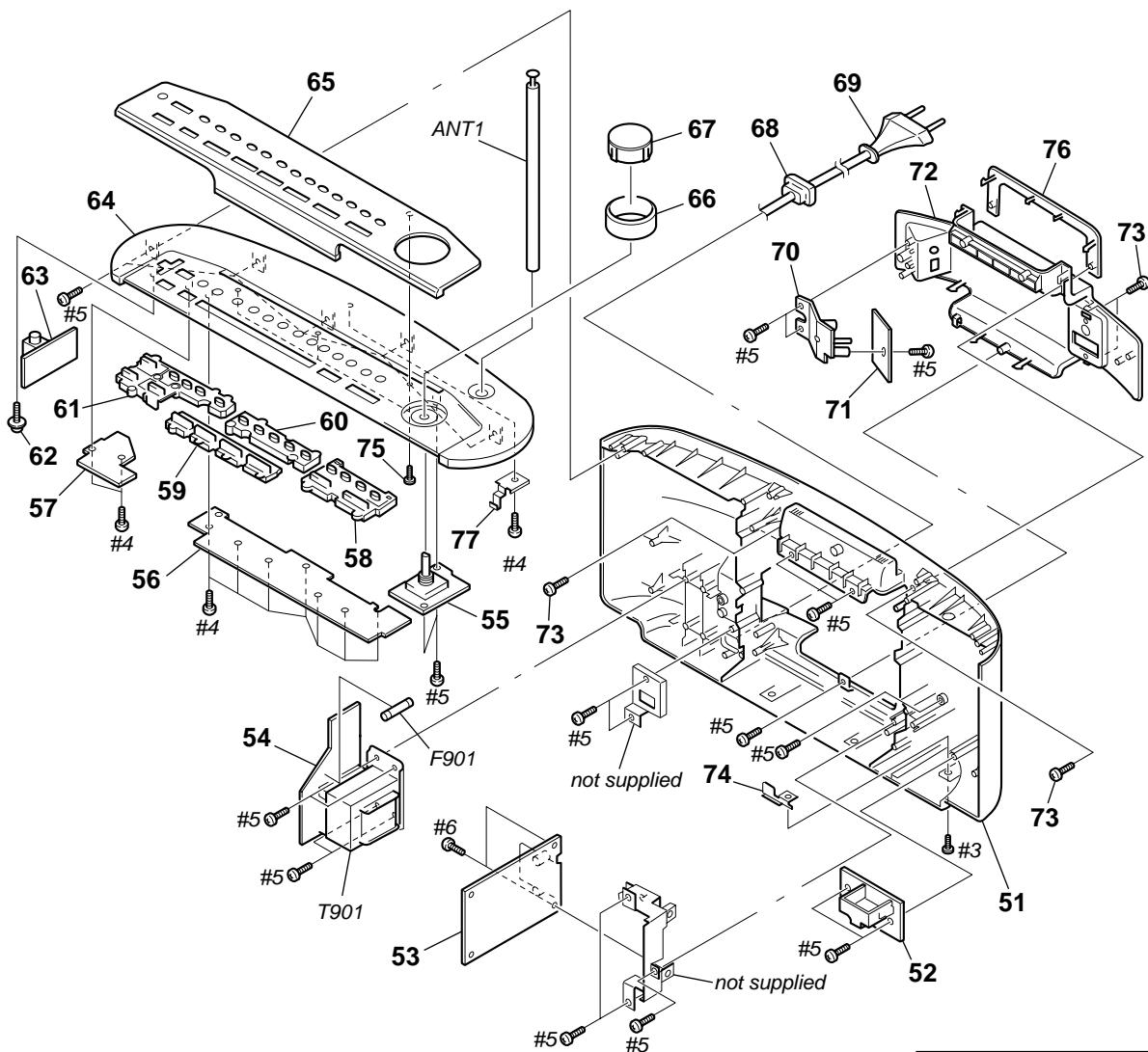
The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety.  
Replace only with part number specified.

### 7-1. FRONT CABINET SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 1	1-677-455-11	SPK (L) BOARD		10	3-041-447-01	ALUMINUM, FRONT	
2	3-043-040-01	SCREW (4X10), +BVTP TAPPING		11	X-3378-153-1	NET SUB ASSY (L), SARAN (GREEN)	
3	3-048-158-01	CUSHION (C), SPEAKER		11	X-3379-076-1	NET SUB ASSY (L), SARAN (BLUE)	
4	3-048-161-01	CUSHION (R), SPEAKER		12	3-041-445-11	WINDOW, FLT	
5	3-041-456-11	BUSH, NET		13	3-041-444-01	CABINET, FRONT	
6	3-043-036-01	SCREW (3X55), +BVTP TAPPING		14	X-3379-283-1	SPEAKER (FRONT) SUB ASSY (R)	
7	3-041-456-01	BUSH, NET		15	X-3379-282-1	SPEAKER (FRONT) SUB ASSY (L)	
8	X-3378-154-1	NET SUB ASSY (R), SARAN (GREEN)		* 16	1-677-455-11	SPK (R) BOARD	
8	X-3379-077-1	NET SUB ASSY (R), SARAN (BLUE)		SP301	1-529-753-11	SPEAKER (8cm) (L-CH)	
9	3-048-159-01	CUSHION (L), SPEAKER		SP302	1-529-753-11	SPEAKER (8cm) (R-CH)	

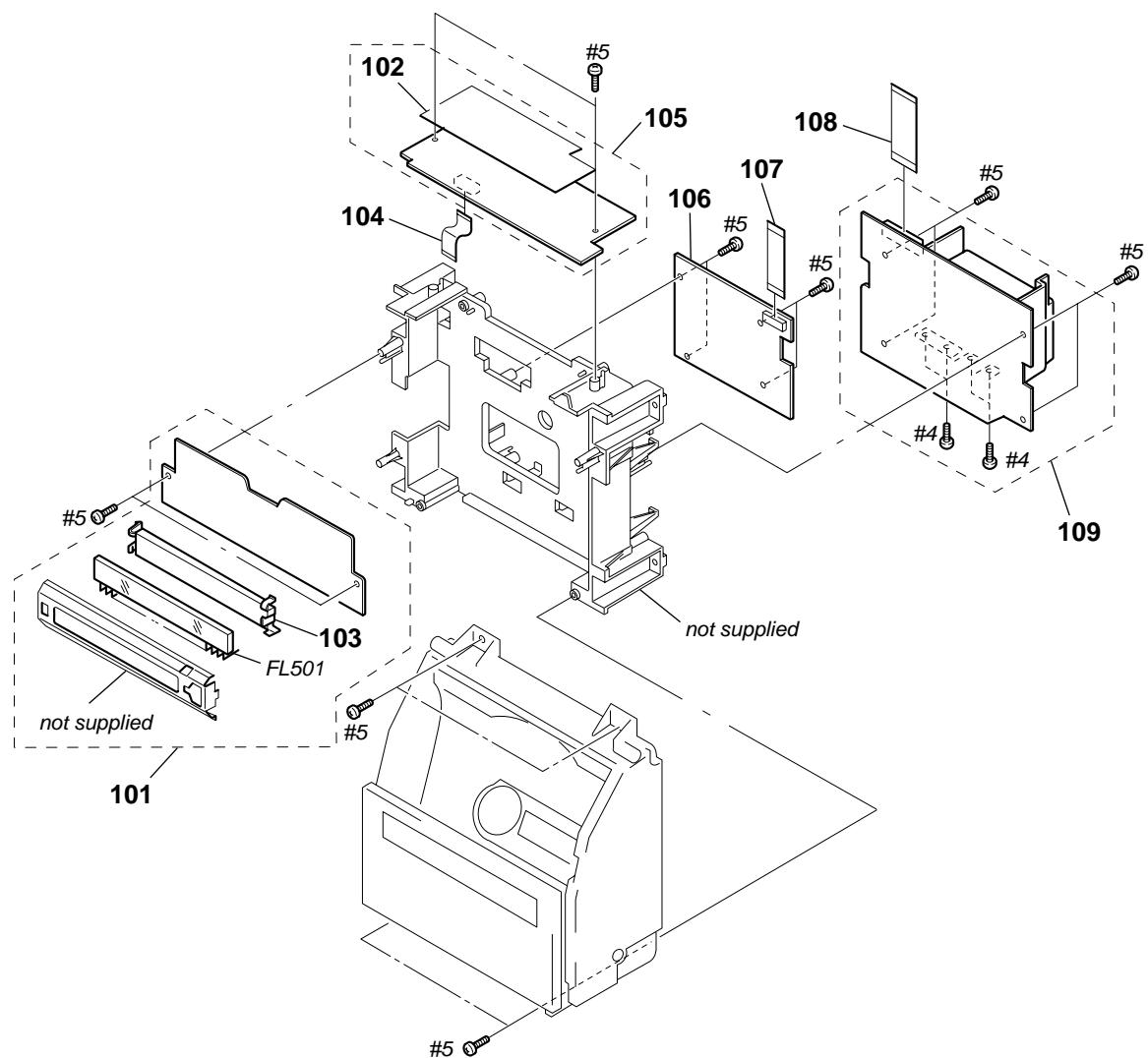
## **7-2. REAR CABINET SECTION**



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

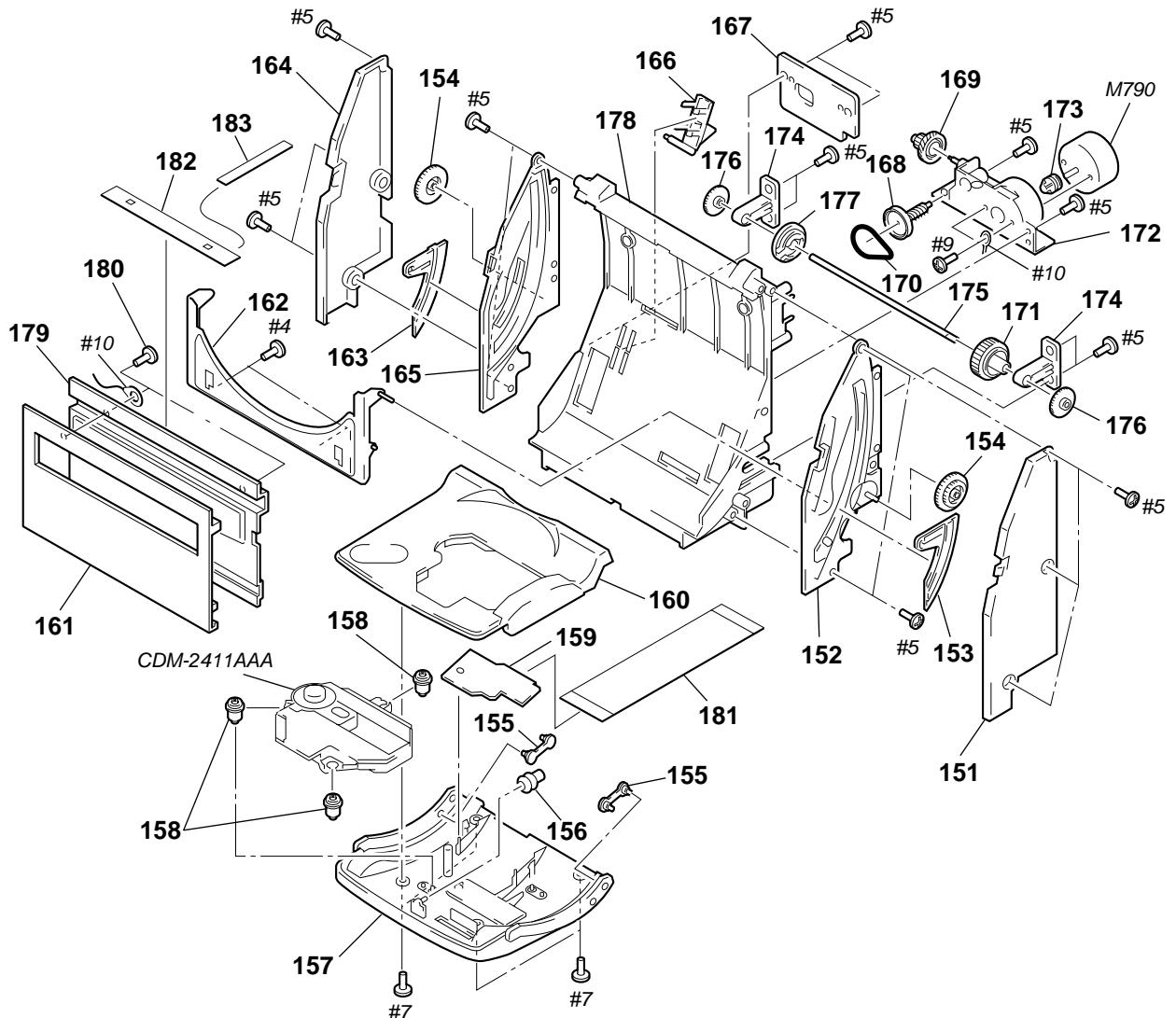
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
51	3-041-419-01	CABINET, REAR		66	3-041-432-01	COVER, KNOB	
52	A-3322-973-A	REG BOARD, COMPLETE		67	3-041-431-01	KNOB (VOL)	
* 53	A-3323-576-A	TU BOARD, COMPLETE		68	3-703-244-11	BUSHING (2104), CORD	
* 54	A-3323-577-A	POWER BOARD, COMPLETE		△ 69	1-783-531-61	CORD, POWER	
* 55	1-676-089-11	VOLUME BOARD		70	3-044-355-01	HOLDER, LINE	
* 56	A-3323-583-A	SWITCH (1) BOARD, COMPLETE		* 71	1-677-452-11	LINE BOARD	
* 57	1-676-857-11	SWITCH (2) BOARD		72	3-041-421-11	COVER, HEAT SINK	
58	3-041-429-01	BUTTON, SNOOZE		73	4-951-620-11	SCREW (2.6X10), +BVTP	
59	3-041-428-01	BUTTON, CD		74	3-041-423-01	TERMINAL, ANT	
60	3-041-427-01	BUTTON, TIME		75	3-048-309-01	SCREW (2X8) (DIA.6), +PWH TIGHT	
61	3-041-426-11	BUTTON, POWER		76	3-048-160-01	COVER, HANDLE	
62	4-960-167-01	SCREW (3X8) (DIA.10), +WH		77	3-048-308-01	BRACKET (TOP)	
* 63	1-677-451-11	H/P BOARD		ANT1	1-754-101-11	ANTENNA, TELESCOPIC	
64	3-041-425-01	CABINET, TOP		△ F901	1-576-109-11	FUSE (5A/125V)	
65	3-041-430-21	ALUMINUM, UPPER		△ T901	1-435-332-11	TRANSFORMER, POWER	

### 7-3. CD BLOCK SECTION



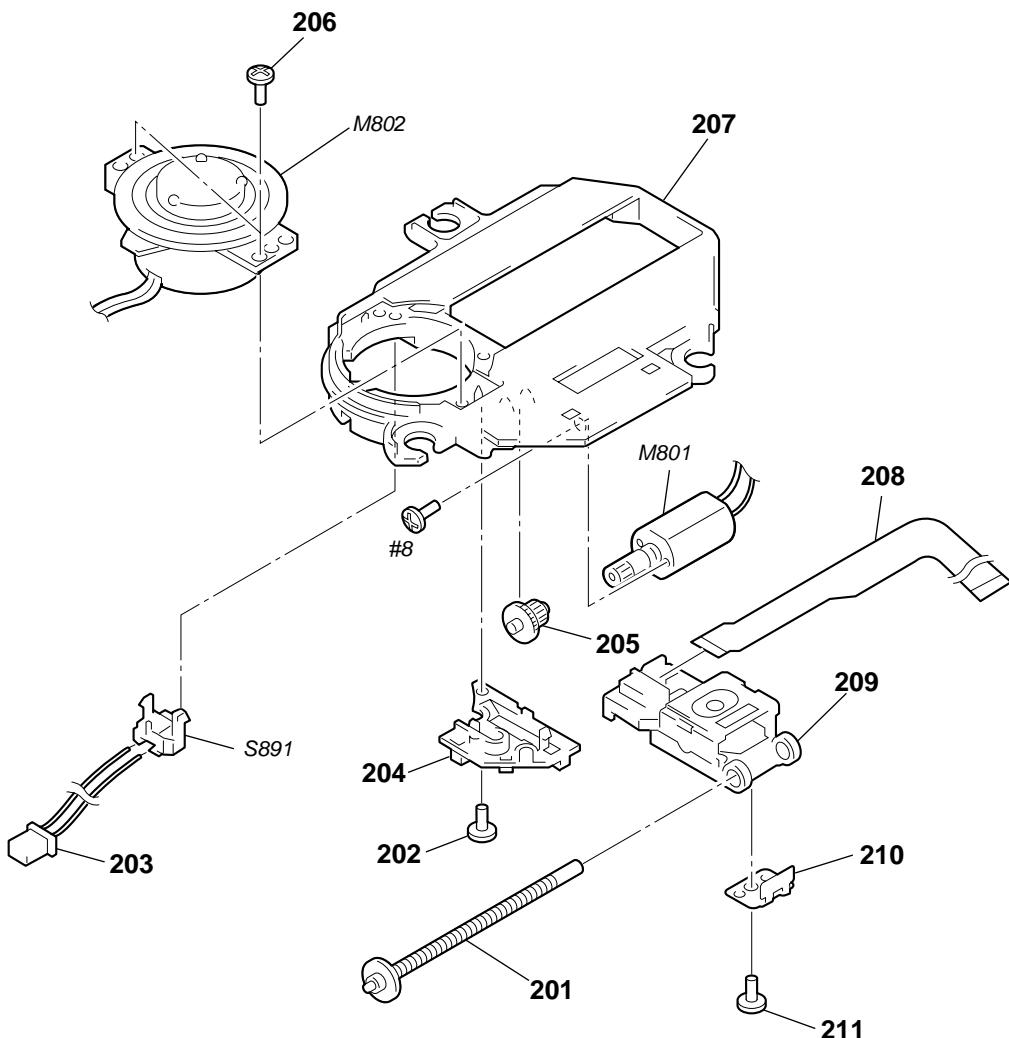
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 101	A-3323-581-A	FL BOARD, COMPLETE		* 106	A-3323-578-A	CD BOARD, COMPLETE	
102	3-220-079-01	PAPER, SHIELD		107	1-792-175-11	WIRE (FLAT TYPE) (13 CORE)	
103	3-041-440-01	HOLDER, FLT		108	1-792-513-11	WIRE (FLAT TYPE) (22 CORE)	
104	1-792-686-11	WIRE (FLAT TYPE) (8 CORE)		* 109	A-3322-837-A	MAIN BOARD, COMPLETE	
* 105	A-3322-838-A	CONTROL BOARD, COMPLETE		FL501	1-517-934-11	INDICATOR TUBE, FLUORESCENT	

## **7-4. CD LOADING SECTION (VLM-ZS2000)**



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
151	3-017-025-11	COVER (R), SIDE		168	3-017-031-11	GEAR (A)	
152	3-017-012-11	PLATE (R), SIDE		169	3-017-032-11	GEAR (B)	
153	3-017-014-11	SLIDER (R)		170	3-017-030-01	BELT	
154	3-017-027-11	GEAR (C)		171	3-017-008-11	GEAR (R), TIMING	
155	3-017-016-11	SHAFT, TRAY		172	3-017-036-11	CHASSIS, GEAR	
156	4-975-811-01	INSULATOR		173	2-627-174-01	PULLEY (M)	
157	3-017-022-21	TRAY (BOTTOM), CD		174	3-017-009-11	BEARING	
158	4-975-762-11	INSULATOR		175	3-017-010-11	SHAFT	
* 159	1-667-046-11	PICK-UP RELAY BOARD		176	3-017-028-11	GEAR (D)	
160	3-020-624-21	TRAY (TOP), CD		177	3-017-029-11	GEAR (L), TIMING	
161	3-041-437-01	LID (AL), CD		178	3-017-024-21	CHASSIS, LOADING	
162	X-3374-204-1	WINDOW ASSY, CD		179	3-041-434-01	LID (MO), CD	
163	3-017-013-11	SLIDER (L)		180	3-048-309-01	SCREW (2X8) (DIA.6), +PWH TIGHT	
164	3-017-035-11	COVER (L), SIDE		181	1-782-663-11	WIRE (FLAT TYPE)	
165	3-017-011-11	PLATE (L), SIDE		* 182	1-676-090-11	LAMP BOARD	
166	3-017-017-11	LEVER, DETECTION		183	1-792-936-11	WIRE (FLAT TYPE) (4 CORE)	
* 167	1-667-045-11	LOADING BOARD		M790	1-698-999-11	MOTOR, DC (LOADING)	

**7-5. OPTICAL PICK-UP SECTION  
(CDM-2411AA)**



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	A-3303-970-A	SCREW ASSY, FEED		208	1-660-965-11	SLIDE FLEXIBLE BOARD	
202	3-318-203-01	SCREW (B1.7), TAPPING	$\triangle$	209	X-4950-060-1	PICK-UP BLOCK, OPTICAL DAX-012A	
203	1-690-530-81	LEAD (WITH CONNECTOR)		210	4-972-165-01	RACK	
204	4-972-163-04	SPRING, SLED		211	4-973-631-01	SCREW	
205	4-974-003-01	GEAR (B)		M801	A-3303-403-A	MOTOR ASSY, SLED (SLED) (including GEAR)	
206	3-719-401-11	SCREW (B1.7), TAPPING		M802	A-3304-989-A	MOTOR ASSY, TURNTABLE (SPINDLE)	
207	4-972-162-01	CHASSIS		S891	1-571-099-21	SWITCH (1 KEY) (LIMIT)	

# SECTION 8

## ELECTRICAL PARTS LIST

**CD**

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- **RESISTORS**

All resistors are in ohms.

METAL: Metal-film resistor.

METAL OXIDE: Metal oxide-film resistor.

F: nonflammable

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

- **SEMICONDUCTORS**

In each case, u :  $\mu$ , for example:

uA.. :  $\mu$ A.. uPA.. :  $\mu$ PA..

uPB.. :  $\mu$ PB.. uPC.. :  $\mu$ PC.. uPD.. :  $\mu$ PD..

- **CAPACITORS**

uF :  $\mu$ F

- **COILS**

uH :  $\mu$ H

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

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

Ref. No.	Part No.	Description			Remark		Ref. No.	Part No.	Description			Remark						
*	A-3323-578-A	CD BOARD, COMPLETE					C746	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V						
*****																		
< CAPACITOR >																		
C700	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V		C747	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V						
C701	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V		C748	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V						
C702	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V		C749	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V						
C703	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V		C750	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V						
C704	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V		C751	1-163-231-11	CERAMIC CHIP	15PF	5%	50V						
C705	1-131-375-00	TANTALUM	4.7uF	10%	10V		C752	1-163-231-11	CERAMIC CHIP	15PF	5%	50V						
C706	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V		C753	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V						
C707	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V		C754	1-163-251-11	CERAMIC CHIP	100PF	5%	50V						
C708	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C755	1-126-924-11	ELECT	330uF	20%	10V						
C709	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V		C756	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V						
C710	1-126-961-11	ELECT	2.2uF	20%	50V		C757	1-104-664-11	ELECT	47uF	20%	10V						
C711	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V		C758	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V						
C712	1-163-243-11	CERAMIC CHIP	47PF	5%	50V		C759	1-104-664-11	ELECT	47uF	20%	10V						
C713	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V		C760	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V						
C714	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V		C761	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V						
C715	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V		C762	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V						
C716	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V		C763	1-126-926-11	ELECT	1000uF	20%	10V						
C717	1-126-965-11	ELECT	22uF	20%	50V		C764	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V						
C718	1-163-243-11	CERAMIC CHIP	47PF	5%	50V		C765	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V						
C719	1-104-664-11	ELECT	47uF	20%	10V		C766	1-163-001-11	CERAMIC CHIP	220PF	10%	50V						
C720	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V		C770	1-163-001-11	CERAMIC CHIP	220PF	10%	50V						
C721	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V		C773	1-163-001-11	CERAMIC CHIP	220PF	10%	50V						
C722	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V		C774	1-163-001-11	CERAMIC CHIP	220PF	10%	50V						
C723	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V		C775	1-163-001-11	CERAMIC CHIP	220PF	10%	50V						
C724	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V		C776	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V						
C725	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V		C777	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V						
C726	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V		C780	1-126-963-11	ELECT	4.7uF	20%	50V						
C727	1-126-934-11	ELECT	220uF	20%	10V		C781	1-126-963-11	ELECT	4.7uF	20%	50V						
C728	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V		C788	1-163-251-11	CERAMIC CHIP	100PF	5%	50V						
C729	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V		< CONNECTOR >											
C730	1-126-925-11	ELECT	470uF	20%	10V	* CN701	1-580-155-11	PIN, CONNECTOR (PC BOARD) 3P										
C731	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	* CN708	1-580-158-11	PIN, CONNECTOR (PC BOARD) 6P										
C732	1-104-665-11	ELECT	100uF	20%	10V	CN711	1-770-528-31	CONNECTOR, FFC/FPC 21P										
C733	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	CN712	1-695-374-31	CONNECTOR, FFC/FPC 13P										
C740	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	* CN713	1-580-166-11	PIN, CONNECTOR (PC BOARD) 5P										
C741	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	< IC >												
C742	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	IC701	8-752-082-14	IC CXA1992BR										
C743	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	IC702	8-752-384-13	IC CXD2589Q										
C744	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	IC703	8-759-473-42	IC BA6898FP										
C745	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	< COIL >												
L701	1-410-993-42	INDUCTOR CHIP	1uH															

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
L702	1-410-997-42	INDUCTOR CHIP	2.2uH	R746	1-216-121-91	RES-CHIP	1M 5% 1/10W
L703	1-410-997-42	INDUCTOR CHIP	2.2uH	R747	1-216-073-00	METAL CHIP	10K 5% 1/10W
L704	1-412-852-11	INDUCTOR	47uH	R748	1-216-105-91	RES-CHIP	220K 5% 1/10W
L705	1-410-993-42	INDUCTOR CHIP	1uH	R749	1-216-041-00	METAL CHIP	470 5% 1/10W
< TRANSISTOR >				R750	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q701	8-729-101-07	TRANSISTOR	2SB798-DL	R751	1-216-049-91	RES-CHIP	1K 5% 1/10W
< RESISTOR >				R752	1-216-105-91	RES-CHIP	220K 5% 1/10W
R700	1-216-089-91	RES-CHIP	47K 5% 1/10W	R753	1-216-049-91	RES-CHIP	1K 5% 1/10W
R701	1-216-069-00	METAL CHIP	6.8K 5% 1/10W	R754	1-216-089-91	RES-CHIP	47K 5% 1/10W
R702	1-216-117-00	METAL CHIP	680K 5% 1/10W	R755	1-216-049-91	RES-CHIP	1K 5% 1/10W
R703	1-216-101-00	METAL CHIP	150K 5% 1/10W	R760	1-216-067-00	METAL CHIP	5.6K 5% 1/10W
R704	1-216-109-00	METAL CHIP	330K 5% 1/10W	R761	1-216-069-00	METAL CHIP	6.8K 5% 1/10W
R705	1-216-114-00	RES-CHIP	510K 5% 1/10W	R762	1-216-077-91	RES-CHIP	15K 5% 1/10W
R706	1-216-101-00	METAL CHIP	150K 5% 1/10W	R763	1-216-085-00	METAL CHIP	33K 5% 1/10W
R707	1-216-101-00	METAL CHIP	150K 5% 1/10W	R764	1-216-081-00	METAL CHIP	22K 5% 1/10W
R708	1-216-105-91	RES-CHIP	220K 5% 1/10W	R765	1-216-081-00	METAL CHIP	22K 5% 1/10W
R709	1-216-089-91	RES-CHIP	47K 5% 1/10W	R766	1-216-069-00	METAL CHIP	6.8K 5% 1/10W
R710	1-216-089-91	RES-CHIP	47K 5% 1/10W	R773	1-216-049-91	RES-CHIP	1K 5% 1/10W
R711	1-216-101-00	METAL CHIP	150K 5% 1/10W	R777	1-216-089-91	RES-CHIP	47K 5% 1/10W
R712	1-216-101-00	METAL CHIP	150K 5% 1/10W	R791	1-216-121-91	RES-CHIP	1M 5% 1/10W
R713	1-216-089-91	RES-CHIP	47K 5% 1/10W	< VIBRATOR >			
R714	1-216-049-91	RES-CHIP	1K 5% 1/10W	X701	1-767-226-11	VIBRATOR, CRYSTAL (16.9344MHz)	*****
R715	1-216-049-91	RES-CHIP	1K 5% 1/10W	*****			
R716	1-216-049-91	RES-CHIP	1K 5% 1/10W	* A-3322-838-A	CONTROL BOARD, COMPLETE	*****	
R717	1-216-049-91	RES-CHIP	1K 5% 1/10W	*****			
R718	1-216-049-91	RES-CHIP	1K 5% 1/10W	3-220-079-01	PAPER, SHIELD	*****	
R720	1-216-073-00	METAL CHIP	10K 5% 1/10W	< CAPACITOR >			
R721	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	C800	1-125-507-11	DOUBLE LAYERS	0.22F 5.5V
R722	1-216-121-91	RES-CHIP	1M 5% 1/10W	C802	1-162-306-11	CERAMIC	0.01uF 30% 16V
R723	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	C812	1-162-282-31	CERAMIC	100PF 10% 50V
R724	1-216-001-00	METAL CHIP	10 5% 1/10W	C814	1-162-282-31	CERAMIC	100PF 10% 50V
R725	1-216-089-91	RES-CHIP	47K 5% 1/10W	C816	1-162-282-31	CERAMIC	100PF 10% 50V
R726	1-216-089-91	RES-CHIP	47K 5% 1/10W	C818	1-162-282-31	CERAMIC	100PF 10% 50V
R727	1-216-089-91	RES-CHIP	47K 5% 1/10W	C824	1-162-306-11	CERAMIC	0.01uF 30% 16V
R728	1-216-089-91	RES-CHIP	47K 5% 1/10W	C825	1-162-306-11	CERAMIC	0.01uF 30% 16V
R729	1-216-101-00	METAL CHIP	150K 5% 1/10W	C826	1-102-962-00	CERAMIC	30PF 5% 50V
R730	1-216-101-00	METAL CHIP	150K 5% 1/10W	C827	1-102-962-00	CERAMIC	30PF 5% 50V
R731	1-216-101-00	METAL CHIP	150K 5% 1/10W	C830	1-162-306-11	CERAMIC	0.01uF 30% 16V
R732	1-216-101-00	METAL CHIP	150K 5% 1/10W	C831	1-102-516-11	CERAMIC	27PF 5% 50V
R733	1-216-109-00	METAL CHIP	330K 5% 1/10W	C832	1-102-516-11	CERAMIC	27PF 5% 50V
R734	1-216-101-00	METAL CHIP	150K 5% 1/10W	C834	1-102-516-11	CERAMIC	27PF 5% 50V
R736	1-216-073-00	METAL CHIP	10K 5% 1/10W	C835	1-102-514-11	CERAMIC	22PF 5% 50V
R737	1-216-073-00	METAL CHIP	10K 5% 1/10W	C851	1-162-294-31	CERAMIC	0.001uF 10% 50V
R738	1-216-049-91	RES-CHIP	1K 5% 1/10W	C865	1-162-306-11	CERAMIC	0.01uF 30% 16V
R739	1-216-049-91	RES-CHIP	1K 5% 1/10W	C866	1-126-964-11	ELECT	10uF 20% 50V
R740	1-216-049-91	RES-CHIP	1K 5% 1/10W	C867	1-162-306-11	CERAMIC	0.01uF 30% 16V
R741	1-216-089-91	RES-CHIP	47K 5% 1/10W	C868	1-126-964-11	ELECT	10uF 20% 50V
R742	1-216-089-91	RES-CHIP	47K 5% 1/10W	C869	1-126-963-11	ELECT	4.7uF 20% 50V
R743	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	C870	1-162-294-31	CERAMIC	0.001uF 10% 50V
R744	1-216-043-91	RES-CHIP	560 5% 1/10W	C873	1-162-306-11	CERAMIC	0.01uF 30% 16V
R745	1-216-073-00	METAL CHIP	10K 5% 1/10W				

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C880	1-162-282-31	CERAMIC	100PF	10%	50V	R824	1-249-437-11	CARBON	47K	5%	1/4W
C881	1-162-282-31	CERAMIC	100PF	10%	50V	R825	1-249-437-11	CARBON	47K	5%	1/4W
C882	1-162-282-31	CERAMIC	100PF	10%	50V	R826	1-249-429-11	CARBON	10K	5%	1/4W
C894	1-102-518-11	CERAMIC	33PF	5%	50V	R827	1-249-437-11	CARBON	47K	5%	1/4W
C895	1-102-518-11	CERAMIC	33PF	5%	50V	R828	1-249-417-11	CARBON	1K	5%	1/4W
C896	1-126-924-11	ELECT	330uF	20%	10V	R829	1-249-417-11	CARBON	1K	5%	1/4W
C897	1-162-306-11	CERAMIC	0.01uF	30%	16V	R834	1-247-887-00	CARBON	220K	5%	1/4W
C898	1-162-306-11	CERAMIC	0.01uF	30%	16V	R839	1-249-425-11	CARBON	4.7K	5%	1/4W
					< CONNECTOR >	R840	1-249-425-11	CARBON	4.7K	5%	1/4W
* CN801	1-770-529-31	CONNECTOR, FFC/FPC 22P				R841	1-249-417-11	CARBON	1K	5%	1/4W
CN802	1-695-374-31	CONNECTOR, FFC/FPC 13P				R842	1-249-417-11	CARBON	1K	5%	1/4W
* CN803	1-691-040-31	HOUSING, CONNECTOR 8P				R843	1-249-417-11	CARBON	1K	5%	1/4W
CN804	1-580-168-11	PIN, CONNECTOR (PC BOARD) 7P				R844	1-249-417-11	CARBON	1K	5%	1/4W
					< IC >	R845	1-249-417-11	CARBON	1K	5%	1/4W
IC801	8-752-905-13	IC CXP84332-229Q				R846	1-249-417-11	CARBON	1K	5%	1/4W
IC802	8-759-645-87	IC PST9128-T				R847	1-249-417-11	CARBON	1K	5%	1/4W
IC804	8-759-677-21	IC MSM9805-549RS				R851	1-249-417-11	CARBON	1K	5%	1/4W
					< COIL >	R852	1-249-417-11	CARBON	1K	5%	1/4W
L801	1-410-509-11	INDUCTOR	10uH			R853	1-249-437-11	CARBON	47K	5%	1/4W
L802	1-414-142-11	INDUCTOR	1uH			R854	1-249-417-11	CARBON	1K	5%	1/4W
					< TRANSISTOR >	R855	1-249-417-11	CARBON	1K	5%	1/4W
Q801	8-729-922-66	TRANSISTOR	2SC2410SN			R856	1-249-417-11	CARBON	1K	5%	1/4W
Q802	8-729-922-66	TRANSISTOR	2SC2410SN			R857	1-249-417-11	CARBON	1K	5%	1/4W
Q803	8-729-037-34	TRANSISTOR	KRA107M			R858	1-249-417-11	CARBON	1K	5%	1/4W
Q805	8-729-037-34	TRANSISTOR	KRA107M			R859	1-249-417-11	CARBON	1K	5%	1/4W
Q806	8-729-012-83	FET	2SK679A			R860	1-249-417-11	CARBON	1K	5%	1/4W
					< RESISTOR >	R861	1-249-417-11	CARBON	1K	5%	1/4W
R801	1-249-417-11	CARBON	1K	5%	1/4W	R862	1-249-417-11	CARBON	1K	5%	1/4W
R802	1-249-417-11	CARBON	1K	5%	1/4W	R863	1-249-417-11	CARBON	1K	5%	1/4W
R803	1-249-417-11	CARBON	1K	5%	1/4W	R864	1-249-417-11	CARBON	1K	5%	1/4W
R804	1-249-417-11	CARBON	1K	5%	1/4W	R871	1-249-429-11	CARBON	10K	5%	1/4W
R805	1-249-417-11	CARBON	1K	5%	1/4W	R874	1-249-417-11	CARBON	1K	5%	1/4W
R806	1-249-417-11	CARBON	1K	5%	1/4W	R875	1-249-417-11	CARBON	1K	5%	1/4W
R807	1-249-417-11	CARBON	1K	5%	1/4W	R876	1-249-417-11	CARBON	1K	5%	1/4W
R808	1-249-417-11	CARBON	1K	5%	1/4W	R877	1-249-417-11	CARBON	1K	5%	1/4W
R809	1-249-417-11	CARBON	1K	5%	1/4W	R878	1-249-417-11	CARBON	1K	5%	1/4W
R810	1-249-417-11	CARBON	1K	5%	1/4W	R879	1-249-417-11	CARBON	1K	5%	1/4W
R811	1-249-417-11	CARBON	1K	5%	1/4W	R880	1-249-417-11	CARBON	1K	5%	1/4W
R812	1-249-417-11	CARBON	1K	5%	1/4W	R881	1-249-429-11	CARBON	10K	5%	1/4W
R813	1-249-417-11	CARBON	1K	5%	1/4W	R882	1-249-429-11	CARBON	10K	5%	1/4W
R814	1-249-417-11	CARBON	1K	5%	1/4W	R883	1-249-413-11	CARBON	470	5%	1/4W
R815	1-249-417-11	CARBON	1K	5%	1/4W	R884	1-249-417-11	CARBON	1K	5%	1/4W
R816	1-249-417-11	CARBON	1K	5%	1/4W	R885	1-249-429-11	CARBON	10K	5%	1/4W
R817	1-249-417-11	CARBON	1K	5%	1/4W	R886	1-249-437-11	CARBON	47K	5%	1/4W
R820	1-249-417-11	CARBON	1K	5%	1/4W	R887	1-249-437-11	CARBON	47K	5%	1/4W
R821	1-249-417-11	CARBON	1K	5%	1/4W	R888	1-249-425-11	CARBON	4.7K	5%	1/4W
R822	1-249-437-11	CARBON	47K	5%	1/4W	R889	1-249-425-11	CARBON	4.7K	5%	1/4W
R823	1-249-437-11	CARBON	47K	5%	1/4W	R890	1-249-425-11	CARBON	4.7K	5%	1/4W
						R891	1-249-441-11	CARBON	100K	5%	1/4W
						R893	1-247-817-91	CARBON	270	5%	1/4W
						R895	1-249-425-11	CARBON	4.7K	5%	1/4W
						R899	1-247-807-31	CARBON	100	5%	1/4W
						R902	1-247-807-31	CARBON	100	5%	1/4W

<b>CONTROL</b>	<b>FL</b>	<b>H/P</b>	<b>LAMP</b>	<b>LINE</b>
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<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>				
R903	1-247-807-31	CARBON	100	5%	1/4W	JR510	1-216-295-91	SHORT	0						
< VIBRATOR >															
X801	1-781-598-11	VIBRATOR, CERAMIC (8MHz)				L501	1-410-993-42	INDUCTOR CHIP	1uH						
X802	1-767-697-11	VIBRATOR, CRYSTAL (32.768kHz)				L502	1-410-993-42	INDUCTOR CHIP	1uH						
X804	1-781-775-21	VIBRATOR, CERAMIC (4.19MHz)				< TRANSISTOR >									
*****															
*	A-3323-581-A	FL BOARD, COMPLETE				Q501	8-729-036-86	TRANSISTOR	KTC3203Y-AT						
*****															
	3-041-440-01	HOLDER, FLT				< RESISTOR >									
< CAPACITOR >															
C501	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	R502	1-216-065-91	RES-CHIP	4.7K	5%	1/10W				
C502	1-128-131-11	ELECT	22uF	20%	50V	R503	1-216-057-00	METAL CHIP	2.2K	5%	1/10W				
C503	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	R504	1-216-057-00	METAL CHIP	2.2K	5%	1/10W				
C504	1-126-176-11	ELECT	220uF	20%	10V	R505	1-216-073-00	METAL CHIP	10K	5%	1/10W				
C505	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	R552	1-216-061-00	METAL CHIP	3.3K	5%	1/10W				
*****															
C506	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	< JACK >									
C507	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	J401	1-794-390-11	JACK (1,)							
C508	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	< COIL >									
C509	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	L402	1-414-146-31	INDUCTOR	2.2uH						
C510	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	L403	1-414-146-31	INDUCTOR	2.2uH						
*****															
C511	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	< COIL >									
C512	1-124-233-11	ELECT	10uF	20%	16V	*****									
C513	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	< CONNECTOR >									
C514	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	*****									
C515	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	< CONNECTOR >									
C516	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	1-792-936-11 WIRE (FLAT TYPE) (4 CORE)									
< CONNECTOR >															
CN501	1-691-067-31	HOUSING, CONNECTOR 8P				< CONNECTOR >									
* CN502	1-564-523-11	PLUG, CONNECTOR 8P				CN806									
CN503	1-691-063-21	HOUSING, CONNECTOR 4P				HOUSING, CONNECTOR 4P									
< FLUORESCENT INDICATOR >															
FL501	1-517-934-11	INDICATOR TUBE, FLUORESCENT				< PILOT LAMP >									
< IC >															
IC501	8-759-663-70	IC	ML9206-03MBZ060			PL802	1-517-935-11	LAMP, PILOT							
IC502	8-759-459-85	IC	NJL63H400A			*****									
< JUMPER RESISTOR >															
JR501	1-216-295-91	SHORT	0			*& 1-677-452-11 LINE BOARD									
JR502	1-216-295-91	SHORT	0			*****									
JR503	1-216-295-91	SHORT	0			< CONNECTOR >									
JR504	1-216-295-91	SHORT	0			CN402	1-695-105-11	PIN, CONNECTOR (PC BOARD) 3P							
JR505	1-216-295-91	SHORT	0			CN403	1-695-105-11	PIN, CONNECTOR (PC BOARD) 3P							
JR506	1-216-295-91	SHORT	0			< IC >									
JR507	1-216-295-91	SHORT	0			IC401									
JR508	1-216-295-91	SHORT	0			8-749-921-12 IC GP1F32T (OPTICAL DIGITAL OUT (CD))									
JR509	1-216-295-91	SHORT	0			*****									

<b>LINE</b>	<b>LOADING</b>	<b>MAIN</b>
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<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>			<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>		
		< JACK >				C105	1-126-960-11	ELECT	1uF	20%	50V
J402	1-566-891-21	JACK (LINE IN)				C106	1-130-479-00	MYLAR	0.0047uF	5%	50V
		< COIL >				C107	1-126-964-11	ELECT	10uF	20%	50V
L401	1-410-324-11	INDUCTOR	4.7uH			C108	1-126-963-11	ELECT	4.7uF	20%	50V
		< RESISTOR >				C111	1-136-163-00	MYLAR	0.068uF	5%	50V
R401	1-249-429-11	CARBON	10K	5%	1/4W	C112	1-136-163-00	MYLAR	0.068uF	5%	50V
R402	1-249-429-11	CARBON	10K	5%	1/4W	C113	1-136-168-00	MYLAR	0.18uF	5%	50V
*	1-667-045-11	LOADING BOARD				C114	1-162-294-31	CERAMIC	0.001uF	10%	50V
		*****				C115	1-162-282-31	CERAMIC	100PF	10%	50V
*	1-580-937-11	TERMINAL, SOLDERLESS				C116	1-126-960-11	ELECT	1uF	20%	50V
	7-623-510-01	LUG, 4				C117	1-136-165-00	MYLAR	0.1uF	5%	50V
		< CAPACITOR >				C118	1-136-165-00	MYLAR	0.1uF	5%	50V
C790	1-104-664-11	ELECT	47uF	20%	25V	C119	1-162-286-21	CERAMIC	220PF	10%	50V
		< CONNECTOR >				C120	1-162-282-31	CERAMIC	100PF	10%	50V
*	CN781	1-580-923-11	HOUSING, CONNECTOR 2P			C121	1-136-168-00	MYLAR	0.18uF	5%	50V
*	CN790	1-580-926-11	HOUSING, CONNECTOR 5P			C128	1-162-294-31	CERAMIC	0.001uF	10%	50V
		< DIODE >				C129	1-104-664-11	ELECT	47uF	20%	10V
D790	8-719-970-02	DIODE	1SR139-400			C130	1-104-664-11	ELECT	47uF	20%	10V
		< IC >				C131	1-162-286-21	CERAMIC	220PF	10%	50V
IC790	8-759-501-73	IC	BA6418N			C132	1-162-286-21	CERAMIC	220PF	10%	50V
		< COIL >				C133	1-162-286-21	CERAMIC	220PF	10%	50V
L790	1-412-852-11	INDUCTOR	47uH			C134	1-162-302-11	CERAMIC	0.0022uF	30%	16V
		< RESISTOR >				C200	1-126-960-11	ELECT	1uF	20%	50V
R790	1-249-425-11	CARBON	4.7K	5%	1/4W	C201	1-126-960-11	ELECT	1uF	20%	50V
		< SWITCH >				C202	1-126-964-11	ELECT	10uF	20%	50V
S790	1-762-951-11	SWITCH, PUSH (CLOSE)				C203	1-126-959-21	ELECT	0.47uF	20%	50V
S791	1-762-951-11	SWITCH, PUSH (OPEN)				C204	1-126-960-11	ELECT	1uF	20%	50V
*	A-3322-837-A	MAIN BOARD, COMPLETE				C205	1-126-960-11	ELECT	1uF	20%	50V
		*****				C206	1-130-479-00	MYLAR	0.0047uF	5%	50V
						C207	1-126-964-11	ELECT	10uF	20%	50V
						C208	1-126-963-11	ELECT	4.7uF	20%	50V
						C209	1-162-294-31	CERAMIC	0.001uF	10%	50V
						C211	1-136-163-00	MYLAR	0.068uF	5%	50V
						C212	1-136-163-00	MYLAR	0.068uF	5%	50V
						C213	1-136-168-00	MYLAR	0.18uF	5%	50V
						C214	1-162-294-31	CERAMIC	0.001uF	10%	50V
						C215	1-162-282-31	CERAMIC	100PF	10%	50V
						C216	1-126-960-11	ELECT	1uF	20%	50V
						C217	1-136-165-00	MYLAR	0.1uF	5%	50V
						C218	1-136-165-00	MYLAR	0.1uF	5%	50V
						C219	1-162-286-21	CERAMIC	220PF	10%	50V
						C220	1-162-282-31	CERAMIC	100PF	10%	50V
						C221	1-136-168-00	MYLAR	0.18uF	5%	50V
						C222	1-164-159-21	CERAMIC	0.1uF	50V	
						C228	1-162-294-31	CERAMIC	0.001uF	10%	50V
						C229	1-104-664-11	ELECT	47uF	20%	10V
						C230	1-104-664-11	ELECT	47uF	20%	10V
						C231	1-162-286-21	CERAMIC	220PF	10%	50V
						C232	1-162-286-21	CERAMIC	220PF	10%	50V
C100	1-126-960-11	ELECT	1uF	20%	50V	C233	1-162-286-21	CERAMIC	220PF	10%	50V
C101	1-126-960-11	ELECT	1uF	20%	50V	C234	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C102	1-126-964-11	ELECT	10uF	20%	50V	C300	1-126-961-11	ELECT	2.2uF	20%	50V
C103	1-104-664-11	ELECT	47uF	20%	10V	C301	1-126-946-11	ELECT	6800uF	20%	25V
C104	1-126-960-11	ELECT	1uF	20%	50V						

MAIN

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark		
C308	1-126-925-11	ELECT	470uF	20%	10V	L301	1-414-142-11	INDUCTOR	1uH		
C309	1-104-664-11	ELECT	47uF	20%	10V				< TRANSISTOR >		
C310	1-104-665-11	ELECT	100uF	20%	10V	Q105	8-729-011-92	TRANSISTOR	2SC2001TP-K1K2		
C311	1-104-665-11	ELECT	100uF	20%	10V	Q105	8-729-036-86	TRANSISTOR	KTC3203Y-AT		
C312	1-104-665-11	ELECT	100uF	20%	25V	Q106	8-729-905-50	TRANSISTOR	DTC343TS		
C313	1-128-551-11	ELECT	22uF	20%	25V	Q205	8-729-011-92	TRANSISTOR	2SC2001TP-K1K2		
C314	1-126-968-11	ELECT	100uF	20%	50V	Q205	8-729-036-86	TRANSISTOR	KTC3203Y-AT		
C315	1-162-851-11	CERAMIC	0.1uF	10%	16V	Q206	8-729-905-50	TRANSISTOR	DTC343TS		
C316	1-104-665-11	ELECT	100uF	20%	10V	Q300	8-729-209-15	TRANSISTOR	2SD2012		
C317	1-126-940-11	ELECT	330uF	20%	25V	Q301	8-729-801-84	TRANSISTOR	2SB1013-4		
C318	1-162-306-11	CERAMIC	0.01uF	30%	16V	Q302	8-729-036-77	TRANSISTOR	KRC107M		
C319	1-126-964-11	ELECT	10uF	20%	50V	Q303	8-729-801-84	TRANSISTOR	2SB1013-4		
C321	1-162-306-11	CERAMIC	0.01uF	30%	16V	Q304	8-729-036-77	TRANSISTOR	KRC107M		
C324	1-162-282-31	CERAMIC	100PF	10%	50V	Q305	8-729-036-77	TRANSISTOR	KRC107M		
C325	1-162-282-31	CERAMIC	100PF	10%	50V	Q306	8-729-801-84	TRANSISTOR	2SB1013-4		
C327	1-126-925-11	ELECT	470uF	20%	10V	Q307	8-729-801-84	TRANSISTOR	2SB1013-4		
C350	1-126-970-11	ELECT	330uF	20%	50V	Q308	8-729-036-77	TRANSISTOR	KRC107M		
C351	1-130-483-00	MYLAR	0.01uF	5%	50V	Q309	8-729-036-77	TRANSISTOR	KRA102M		
C352	1-126-964-11	ELECT	10uF	20%	50V	Q310	8-729-037-29	TRANSISTOR	KRA102M		
C353	1-130-483-00	MYLAR	0.01uF	5%	50V	Q353	8-729-037-13	TRANSISTOR	KTA1271Y		
C354	1-126-968-11	ELECT	100uF	20%	50V	Q357	8-729-012-83	FET	2SK679A		
C355	1-130-483-00	MYLAR	0.01uF	5%	50V	Q358	8-729-012-83	FET	2SK679A		
C356	1-130-483-00	MYLAR	0.01uF	5%	50V	C358	8-729-037-29	TRANSISTOR	KRA102M		
C357	1-126-960-11	ELECT	1uF	20%	50V	Q361	8-729-036-77	TRANSISTOR	KRC107M		
C358	1-126-960-11	ELECT	1uF	20%	50V	C362	8-729-036-89	TRANSISTOR	KTC3198GR-AT		
C359	1-130-483-00	MYLAR	0.01uF	5%	50V				< RESISTOR >		
C360	1-126-963-11	ELECT	4.7uF	20%	50V						
C361	1-162-306-11	CERAMIC	0.01uF	30%	16V	R101	1-249-437-11	CARBON	47K	5%	1/4W
					R110	1-247-853-11	CARBON	8.2K	5%	1/4W	
* CN301	1-691-054-31	HOUSING, CONNECTOR 22P			R111	1-247-853-11	CARBON	8.2K	5%	1/4W	
* CN303	1-580-158-11	PIN, CONNECTOR (PC BOARD) 6P			R112	1-249-425-11	CARBON	4.7K	5%	1/4W	
					R113	1-249-385-11	CARBON	2.2	5%	1/6W	
					R114	1-249-385-11	CARBON	2.2	5%	1/6W	
					R115	1-249-416-11	CARBON	820	5%	1/4W	
					R117	1-249-429-11	CARBON	10K	5%	1/4W	
D301	8-719-991-33	DIODE	ISS133T-77		R118	1-249-435-11	CARBON	33K	5%	1/4W	
D302	8-719-991-33	DIODE	ISS133T-77		R119	1-249-435-11	CARBON	33K	5%	1/4W	
D303	8-719-063-79	DIODE	1N4002B		R120	1-249-441-11	CARBON	100K	5%	1/4W	
D305	8-719-991-33	DIODE	ISS133T-77		R121	1-249-424-11	CARBON	3.9K	5%	1/4W	
D306	8-719-991-33	DIODE	ISS133T-77		R122	1-247-881-00	CARBON	120K	5%	1/4W	
D350	8-719-983-35	DIODE	MTZJ-T-77-33D		R123	1-249-424-11	CARBON	3.9K	5%	1/4W	
D351	8-719-109-93	DIODE	RD6.2ESB2		R124	1-247-881-00	CARBON	120K	5%	1/4W	
D354	8-719-110-09	DIODE	RD8.2ES-B3		R127	1-249-416-11	CARBON	820	5%	1/4W	
D355	8-719-991-33	DIODE	ISS133T-77		R128	1-249-429-11	CARBON	10K	5%	1/4W	
					R129	1-249-427-11	CARBON	6.8K	5%	1/4W	
IC301	8-759-674-39	IC	BD3859AFV		R130	1-249-417-11	CARBON	1K	5%	1/4W	
IC303	8-759-333-16	IC	LA4705NA		R132	1-249-399-11	CARBON	33	5%	1/4W	
IC304	8-759-701-54	IC	NJM2073D		R133	1-249-429-11	CARBON	10K	5%	1/4W	
IC305	8-759-479-70	IC	S-81250SGY-B		R134	1-249-425-11	CARBON	4.7K	5%	1/4W	
					R201	1-249-437-11	CARBON	47K	5%	1/4W	
					R212	1-249-425-11	CARBON	4.7K	5%	1/4W	
L126	1-410-509-11	INDUCTOR	10uH		R213	1-249-385-11	CARBON	2.2	5%	1/6W	
L226	1-410-509-11	INDUCTOR	10uH								

## MAIN

## PICK-UP RELAY

## POWER

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R214	1-249-385-11	CARBON	2.2	5%	1/4W	*	A-3323-577-A	POWER BOARD, COMPLETE	*****		
R217	1-249-429-11	CARBON	10K	5%	1/4W				*****		
R221	1-249-421-11	CARBON	2.2K	5%	1/4W				*****		
R223	1-249-421-11	CARBON	2.2K	5%	1/4W				*****		
R228	1-249-429-11	CARBON	10K	5%	1/4W				*****		
									< CAPACITOR >		
R229	1-249-427-11	CARBON	6.8K	5%	1/4W						
R230	1-249-417-11	CARBON	1K	5%	1/4W	C901	1-101-005-00	CERAMIC	22000PF	50V	
R232	1-249-399-11	CARBON	33	5%	1/4W	C902	1-101-005-00	CERAMIC	22000PF	50V	
R233	1-249-429-11	CARBON	10K	5%	1/4W	C903	1-101-005-00	CERAMIC	22000PF	50V	
R234	1-249-425-11	CARBON	4.7K	5%	1/4W	C904	1-101-005-00	CERAMIC	22000PF	50V	
						C905	1-136-165-00	MYLAR	0.1uF	5%	50V
R301	1-247-843-11	CARBON	3.3K	5%	1/4W						
R306	1-247-807-31	CARBON	100	5%	1/4W	C906	1-162-306-11	CERAMIC	0.01uF	30%	16V
R308	1-249-441-11	CARBON	100K	5%	1/4W	C910	1-136-161-00	MYLAR	0.047uF	5%	50V
R309	1-249-425-11	CARBON	4.7K	5%	1/4W	C911	1-136-161-00	MYLAR	0.047uF	5%	50V
R310	1-249-425-11	CARBON	4.7K	5%	1/4W	C912	1-136-161-00	MYLAR	0.047uF	5%	50V
						C913	1-136-161-00	MYLAR	0.047uF	5%	50V
R311	1-249-441-11	CARBON	100K	5%	1/4W						
R314	1-249-429-11	CARBON	10K	5%	1/4W	C914	1-126-963-11	ELECT	4.7uF	20%	50V
R315	1-249-425-11	CARBON	4.7K	5%	1/4W	C915	1-126-963-11	ELECT	4.7uF	20%	50V
R316	1-249-441-11	CARBON	100K	5%	1/4W	C916	1-136-153-00	FILM	0.01uF	5%	50V
R317	1-249-441-11	CARBON	100K	5%	1/4W						
R318	1-249-417-11	CARBON	1K	5%	1/4W						
R319	1-249-413-11	CARBON	470	5%	1/4W	* CN901	1-793-660-11	PIN, CONNECTOR (PC BOARD) 3P			
R320	1-249-413-11	CARBON	470	5%	1/4W	* CN902	1-564-512-11	PLUG, CONNECTOR 9P			
R321	1-249-421-11	CARBON	2.2K	5%	1/4W	* CN903	1-564-508-11	PLUG, CONNECTOR 5P			
R322	1-249-417-11	CARBON	1K	5%	1/4W	* CN904	1-564-520-11	PLUG, CONNECTOR 5P			
R323	1-249-437-11	CARBON	47K	5%	1/4W						
R330	1-247-791-91	CARBON	22	5%	1/4W						
R331	1-249-417-11	CARBON	1K	5%	1/4W	D901	8-719-902-17	DIODE U15G			
R332	1-249-417-11	CARBON	1K	5%	1/4W	D902	8-719-902-17	DIODE U15G			
R333	1-249-401-11	CARBON	47	5%	1/4W	D903	8-719-902-17	DIODE U15G			
						D904	8-719-902-17	DIODE U15G			
R350	1-249-431-11	CARBON	15K	5%	1/4W	D905	8-719-991-33	DIODE 1SS133T-77			
R352	1-249-419-11	CARBON	1.5K	5%	1/4W						
R357	1-249-441-11	CARBON	100K	5%	1/4W	D906	8-719-991-33	DIODE 1SS133T-77			
R358	1-247-895-91	CARBON	470K	5%	1/4W	D907	8-719-991-33	DIODE 1SS133T-77			
R359	1-249-441-11	CARBON	100K	5%	1/4W	D910	8-719-063-79	DIODE 1N4002B			
						D911	8-719-063-79	DIODE 1N4002B			
R360	1-247-895-91	CARBON	470K	5%	1/4W	D912	8-719-063-79	DIODE 1N4002B			
R361	1-249-429-11	CARBON	10K	5%	1/4W	D913	8-719-063-79	DIODE 1N4002B			
R362	1-249-437-11	CARBON	47K	5%	1/4W						
*****											
*	1-667-046-11	PICK-UP RELAY BOARD	*****						< COIL >		
			*****			L901	1-414-142-11	INDUCTOR 1uH			
			< CONNECTOR >						< IC LINK >		
CN702	1-565-874-31	PIN, CONNECTOR (PC BOARD) 2P				▲ PS901	1-532-679-00	LINK, IC (ICP-N15) 0.6A			
CN703	1-565-874-11	PIN, CONNECTOR (PC BOARD) 2P							< RESISTOR >		
CN704	1-565-874-11	PIN, CONNECTOR (PC BOARD) 2P				▲ R901	1-202-725-11	SOLID	3.3M	10%	1/2W
CN706	1-784-213-11	CONNECTOR, FFC/FPC 14P							< RELAY >		
CN707	1-569-309-11	SOCKET, CONNECTOR (L TYPE) 21P				▲ RY901	1-755-386-11	RELAY			
*****											

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

<b>REG</b>	<b>SPK (L)</b>	<b>SPK (R)</b>	<b>SWITCH (1)</b>	<b>SWITCH (2)</b>	<b>TU</b>						
<b>Ref. No.</b>	<b>Part No.</b>	<b>Description</b>	<b>Remark</b>	<b>Ref. No.</b>	<b>Part No.</b>	<b>Description</b>	<b>Remark</b>				
	A-3322-973-A	REG BOARD, COMPLETE	*****			< SWITCH >					
		< CAPACITOR >		S801	1-762-798-11	SWITCH, KEY BOARD (MEGA BASS)					
C302	1-162-851-11	CERAMIC	0.1uF	10%	16V	S802	1-762-798-11	SWITCH, KEY BOARD (BASS/TREBLE)			
C303	1-126-964-11	ELECT	10uF	20%	50V	S803	1-762-798-11	SWITCH, KEY BOARD (PLAY MODE•MONO/ST)			
C305	1-126-964-11	ELECT	10uF	20%	50V	S804	1-762-798-11	SWITCH, KEY BOARD (DISPLAY•ENTER MEM)			
C306	1-162-851-11	CERAMIC	0.1uF	10%	16V	S805	1-762-798-11	SWITCH, KEY BOARD (TUNE•TIME SET +)			
C307	1-102-110-00	CERAMIC	220PF	10%	50V	S806	1-762-798-11	SWITCH, KEY BOARD (TUNE•TIME SET -)			
		< CONNECTOR >		S807	1-762-798-11	SWITCH, KEY BOARD (TIME SIGNAL)					
* CN310	1-564-509-11	PLUG, CONNECTOR 6P		S808	1-762-798-11	SWITCH, KEY BOARD (CLOCK AUTO ADJUST)					
		< IC >		S812	1-762-798-11	SWITCH, KEY BOARD (SLEEP)					
IC307	8-759-646-52	IC KIA7805API		S813	1-762-798-11	SWITCH, KEY BOARD (CLOCK)					
IC308	8-759-663-22	IC KIA7806AP		S814	1-762-798-11	SWITCH, KEY BOARD (TIMER)					
		*****		S815	1-762-798-11	SWITCH, KEY BOARD (STANDBY)					
*	1-677-455-11	SPK (L) BOARD	*****	S816	1-762-798-11	SWITCH, KEY BOARD (SUMMER TIME)					
		< CONNECTOR >		S817	1-762-798-11	SWITCH, KEY BOARD (SNOOZE)					
* CN304	1-564-517-11	PLUG, CONNECTOR 2P		S818	1-762-798-11	SWITCH, KEY BOARD (▲ CD OPEN/CLOSE)					
		*****		S819	1-762-798-11	SWITCH, KEY BOARD (■)					
*	1-677-455-11	SPK (R) BOARD	*****	S820	1-762-798-11	SWITCH, KEY BOARD (▶ II)					
		< CONNECTOR >		S821	1-762-798-11	SWITCH, KEY BOARD (PRESET ▶▶ +)					
* CN304	1-564-517-11	PLUG, CONNECTOR 2P		S822	1-762-798-11	SWITCH, KEY BOARD (PRESET ▲▲ -)					
		*****		S823	1-762-798-11	SWITCH, KEY BOARD	(RADIO BAND•AUTO PRESET)				
*							*****				
				*	1-676-857-11	SWITCH (2) BOARD					
						*****					
						< CONNECTOR >					
				CN805	1-695-105-11	PIN, CONNECTOR (PC BOARD) 3P					
						< RESISTOR >					
*	A-3323-583-A	SWITCH (1) BOARD, COMPLETE	*****	R800	1-249-415-11	CARBON	680	5%	1/4W		
		< RESISTOR >		R900	1-249-416-11	CARBON	820	5%	1/4W		
						< SWITCH >					
R818	1-249-427-11	CARBON	6.8K	5%	1/4W	S809	1-762-798-11	SWITCH, KEY BOARD (POWER)			
R819	1-249-432-11	CARBON	18K	5%	1/4W	S811	1-762-798-11	SWITCH, KEY BOARD (LINE)			
R830	1-249-415-11	CARBON	680	5%	1/4W			*****			
R831	1-249-416-11	CARBON	820	5%	1/4W	*	A-3323-576-A	TU BOARD, COMPLETE			
R832	1-249-418-11	CARBON	1.2K	5%	1/4W			*****			
R833	1-249-420-11	CARBON	1.8K	5%	1/4W				< CAPACITOR >		
R835	1-247-843-11	CARBON	3.3K	5%	1/4W	C1	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
R836	1-249-427-11	CARBON	6.8K	5%	1/4W	C2	1-126-960-11	ELECT	1uF	20%	50V
R837	1-249-432-11	CARBON	18K	5%	1/4W	C3	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
R838	1-249-432-11	CARBON	18K	5%	1/4W	C4	1-126-963-11	ELECT	4.7uF	20%	50V
R866	1-249-427-11	CARBON	6.8K	5%	1/4W	C5	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
R867	1-247-843-11	CARBON	3.3K	5%	1/4W						
R868	1-249-420-11	CARBON	1.8K	5%	1/4W	C6	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
R869	1-249-418-11	CARBON	1.2K	5%	1/4W	C7	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
R870	1-249-415-11	CARBON	680	5%	1/4W	C8	1-126-934-11	ELECT	220uF	20%	10V
R872	1-249-416-11	CARBON	820	5%	1/4W	C9	1-126-934-11	ELECT	220uF	20%	10V
R873	1-249-418-11	CARBON	1.2K	5%	1/4W	C10	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
R892	1-249-420-11	CARBON	1.8K	5%	1/4W	C11	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
R894	1-247-843-11	CARBON	3.3K	5%	1/4W						

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description		Remark
C12	1-163-130-00	CERAMIC CHIP	360PF	5%	50V	D6	8-719-988-61	DIODE 1SS355TE-17		
C13	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	D7	8-719-988-61	DIODE 1SS355TE-17		
C14	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	D8	8-719-988-61	DIODE 1SS355TE-17		
C15	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	D9	8-719-988-61	DIODE 1SS355TE-17		
C16	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V					< BPF >
C17	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	FL1	1-236-711-31	FILTER, BAND PASS		
C18	1-163-237-11	CERAMIC CHIP	27PF	5%	50V					< IC >
C19	1-126-960-11	ELECT	1uF	20%	50V	IC1	8-759-662-67	IC TA2149N		
C20	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	IC2	8-759-483-40	IC LC72137M-TLM		
C21	1-163-003-11	CERAMIC CHIP	330PF	10%	50V					< JUMPER RESISTOR >
C22	1-126-960-11	ELECT	1uF	20%	50V	JC1	1-216-295-91	SHORT	0	
C23	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	JC2	1-216-295-91	SHORT	0	
C24	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	JC3	1-216-295-91	SHORT	0	
C25	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	JC4	1-216-295-91	SHORT	0	
C26	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	JC5	1-216-295-91	SHORT	0	
C27	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	JC6	1-216-295-91	SHORT	0	
C28	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	JC7	1-216-295-91	SHORT	0	
C29	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	JC8	1-216-295-91	SHORT	0	
C30	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	JC9	1-216-295-91	SHORT	0	
C31	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	JC10	1-216-295-91	SHORT	0	
C32	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	JC11	1-216-295-91	SHORT	0	
C33	1-104-665-11	ELECT	100uF	20%	10V	JC12	1-216-295-91	SHORT	0	
C34	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	JC13	1-216-295-91	SHORT	0	
C35	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	JC14	1-216-295-91	SHORT	0	
C36	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	JC16	1-216-295-91	SHORT	0	
C37	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	JC19	1-216-295-91	SHORT	0	
C38	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	JC22	1-216-295-91	SHORT	0	
C40	1-136-171-00	FILM	0.33uF	5%	50V	JC23	1-216-295-91	SHORT	0	
C41	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V					< COIL >
C44	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	L1	1-419-679-11	COIL, AM OSC		
C45	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	L2	1-419-680-11	COIL, AIR-CORE		
										< RESISTOR >
CF2	1-760-738-61	FILTER, CERAMIC				R1	1-216-073-00	METAL CHIP	10K	5% 1/10W
CF3	1-760-738-61	FILTER, CERAMIC				R2	1-216-037-00	METAL CHIP	330	5% 1/10W
CF4	1-781-344-12	FILTER, AM CERAMIC				R3	1-216-089-91	RES-CHIP	47K	5% 1/10W
						R4	1-216-105-91	RES-CHIP	220K	5% 1/10W
						R5	1-216-097-91	RES-CHIP	100K	5% 1/10W
* CNP1	1-766-594-11	PIN, CONNECTOR (PC BOARD) 11P				R6	1-216-057-00	METAL CHIP	2.2K	5% 1/10W
						R7	1-216-077-91	RES-CHIP	15K	5% 1/10W
CT1	1-141-227-00	CAP, TRIMMER	20PF			R8	1-216-001-00	METAL CHIP	10	5% 1/10W
CT3	1-141-304-21	CAP, TRIMMER	10PF			R9	1-216-033-00	METAL CHIP	220	5% 1/10W
						R10	1-216-061-00	METAL CHIP	3.3K	5% 1/10W
						R11	1-216-017-11	RES-CHIP	47	5% 1/10W
D1	8-719-988-61	DIODE 1SS355TE-17				R13	1-216-049-91	RES-CHIP	1K	5% 1/10W
D2	8-719-988-61	DIODE 1SS355TE-17				R15	1-216-029-00	METAL CHIP	150	5% 1/10W
D3	8-719-050-69	DIODE KV1520N				R16	1-216-041-00	METAL CHIP	470	5% 1/10W
D4	8-719-076-71	DIODE KV1471ETR				R17	1-216-041-00	METAL CHIP	470	5% 1/10W
D5	8-719-076-71	DIODE KV1471ETR				R18	1-216-049-91	RES-CHIP	1K	5% 1/10W

## TU VOLUME

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R19	1-216-049-91	RES-CHIP	1K 5% 1/10W			ACCESSORIES & PACKING MATERIALS	*****
R20	1-216-049-91	RES-CHIP	1K 5% 1/10W				*****
R21	1-216-049-91	RES-CHIP	1K 5% 1/10W				*****
R23	1-216-057-00	METAL CHIP	2.2K 5% 1/10W		1-754-102-21	ANTENNA, LOOP (AM)	
R24	1-216-049-91	RES-CHIP	1K 5% 1/10W		3-027-153-11	LID, BATTERY CASE (for RMT-C200A)	
R25	1-216-081-00	METAL CHIP	22K 5% 1/10W		3-046-451-41	MANUAL, INSTRUCTION (ENGLISH)	
R26	1-216-073-00	METAL CHIP	10K 5% 1/10W		A-3258-033-A	REMOTE COMMANDER RMT-C200A	
R27	1-216-075-00	METAL CHIP	12K 5% 1/10W				*****
R28	1-216-043-91	RES-CHIP	560 5% 1/10W				*****
R30	1-216-073-00	METAL CHIP	10K 5% 1/10W			HARDWARE LIST	*****
R31	1-216-041-00	METAL CHIP	470 5% 1/10W				*****
R32	1-216-049-91	RES-CHIP	1K 5% 1/10W	#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
R33	1-216-049-91	RES-CHIP	1K 5% 1/10W	#2	7-685-782-01	SCREW +PTT 2X5 (S)	
				#3	7-682-549-04	SCREW +B 3X10	
			< TRANSFORMER >	#4	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
T1	1-433-741-11	TRANSFORMER, IF		#5	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
T2	1-408-598-31	COIL (DET)	3.9uH	#6	7-682-547-09	SCREW +B 3X6	
T3	1-416-251-11	COIL, AM ANT		#7	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
T4	1-411-234-21	COIL, AM OSC		#8	7-627-850-17	SCREW, PRECISION +P 1.4X2.5	
			< TERMINAL >	#9	7-621-773-86	SCREW +B 2.6X4	
TM1	1-694-668-11	TERMINAL BOARD (AM ANTENNA, FM ANTENNA)		#10	7-623-510-01	LUG, 4	
			< VIBRATOR >				
X1	1-781-592-11	VIBRATOR, CRYSTAL (75kHz)					
*	1-676-089-11	VOLUME BOARD	*****				
			< ROTARY ENCODER >				
RV801	1-473-392-11	ENCODER, ROTARY (VOLUME)					
			*****				
			MISCELLANEOUS				
			*****				
△69	1-783-531-61	CORD, POWER					
104	1-792-686-11	WIRE (FLAT TYPE) (8 CORE)					
107	1-792-175-11	WIRE (FLAT TYPE) (13 CORE)					
108	1-792-513-11	WIRE (FLAT TYPE) (22 CORE)					
181	1-782-663-11	WIRE (FLAT TYPE)					
183	1-792-936-11	WIRE (FLAT TYPE) (4 CORE)					
203	1-690-530-81	LEAD (WITH CONNECTOR)					
208	1-660-965-11	SLIDE FLEXIBLE BOARD					
△209	X-4950-060-1	PICK-UP BLOCK, OPTICAL DAX-012A					
ANT1	1-754-101-11	ANTENNA, TELESCOPIC					
△F901	1-576-109-11	FUSE (5A/125V)					
M790	1-698-999-11	MOTOR, DC (LOADING)					
M801	A-3303-403-A	MOTOR ASSY, SLED (SLED) (including GEAR)					
M802	A-3304-989-A	MOTOR ASSY, TURNTABLE (SPINDLE)					
S891	1-571-099-21	SWITCH (1 KEY) (LIMIT)					
SP301	1-529-753-11	SPEAKER (8cm) (L-CH)					
SP302	1-529-753-11	SPEAKER (8cm) (R-CH)					
△T901	1-435-332-11	TRANSFORMER, POWER					
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The components identified by mark △ or dotted line with mark ▲ are critical for safety.  
Replace only with part number specified.

Sony Corporation

Audio Entertainment Group

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