

CFD-S100/S200

SERVICE MANUAL

Ver. 1.5 2006.03

US Model
Canadian Model
CFD-S200

E Model
CFD-S100/S200

Australian Model
CFD-S100



Photo: CFD-S200 (SILVER)

CD Section	Model Name Using Similar Mechanism	CFD-S36
	CD Mechanism Type	KSM-213RDP
	Optical Pick-up Name	KSS-213R
TC Section	Model Name Using Similar Mechanism	CFD-S400/S500
	Tape Transport Mechanism Type	MF-S200

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US model)

POWER OUTPUT AND TOTAL

HARMONIC DISTORTION

With 3.2-ohm loads, both channels driven from 150 - 6,300 Hz; rated 1.8 W per channel-minimum RMS power, with no more than 10% total harmonic distortion in AC operation.

Other 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 μ W

(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 $\pm 1/2$ dB

Wow and flutter

Below measurable limit

Radio section

Frequency range

FM: 87.5 - 108 MHz

US, CND, E92, MX model:

AM: 530 - 1,710 kHz

TW model:

AM: 531 - 1,611 kHz

AUS, SP, AR model

AM: 531 - 1,611 kHz (9 kHz step)

530 - 1,610 kHz (10 kHz step)

Antennas

FM: Telescopic antenna

AM: Built-in ferrite bar antenna

Cassette-corder section

Recording system

4-track 2 channel stereo

Fast winding time

Approx. 120 sec. with Sony cassette C-60

Frequency response

TYPE I (normal): 80 - 10,000 Hz

— Continued on next page —

CD RADIO CASSETTE-CORDER

9-873-981-06

2006C04-1

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Sony Corporation

Personal Audio Division

Published by Sony Techno Create Corporation

SONY®

CFD-S100/S200

General

- Speaker
- Full range: 10 cm dia., 3.2 ohms, cone type (2)
- Outputs
- Headphones jack (stereo minijack)
 - For 16 - 68 ohms impedance headphones
- Power output
- 2.3 W + 2.3 W (at 3.2 ohms, 10% harmonic distortion)
- Power requirements
- For CD radio cassette-corder:
 - US, CND, E92, MX model: 120 V AC, 60 Hz
 - TW model: 110 V AC, 50/60 Hz
 - AR model: 220 - 230 V AC, 50 Hz
 - AUS, SP model: 230 V AC, 50 Hz
 - 9 V DC, 6 size D (R20) batteries
 - For remote control (CFD-S200 only): 3 V DC, 2 size AAA (R03) batteries
- Power consumption
- AC 20 W
- Battery life
- For CD radio cassette-corder:
- | |
|----------------------------------|
| FM recording |
| Sony R20P: approx. 13.5 h |
| Sony alkaline LR20: approx. 20 h |
| Tape playback |
| Sony R20P: approx. 7.5 h |
| Sony alkaline LR20: approx. 15 h |
| CD playback |
| Sony R20P: approx. 2.5 h |
| Sony alkaline LR20: approx. 7 h |
- Dimensions
- Approx. 386 × 166 × 252 mm (w/h/d) (15 1/4 × 6 5/8 × 10 inches) (incl. projecting parts)
- Mass
- Approx. 3.3 kg (7 lb. 4 oz.) (incl. batteries)
- Supplied accessories
- AC power cord (1)
 - Remote control (RMT-CS200A) (1) (CFD-S200 only)

Design and specifications are subject to change without notice.

- Abbreviation
 - CND : Canadian model
 - E92 : AC 120V area in E model
 - MX : Mexican model
 - TW : Taiwan model
 - AUS : Australian model
 - SP : Singapore model
 - AR : Argentine model

CAUTION

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

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.

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.

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

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

SAFETY-RELATED COMPONENT WARNING!!

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

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

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

SAFETY CHECK-OUT (US MODEL)

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

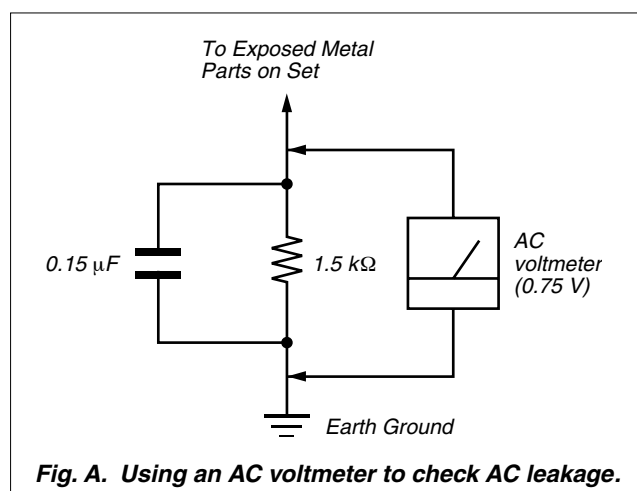
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage.

Check leakage as described below.

LEAKAGE TEST

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

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

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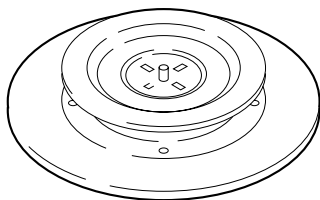
SECTION 1

SERVICING NOTES

CHUCK PLATE JIG ON REPAIRING

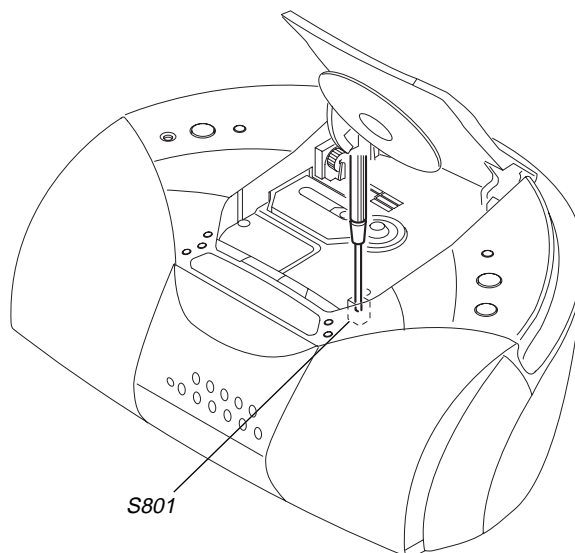
On repairing CD section, playing a disc without the lid (CD), use Chuck Plate Jig.

- Code number of Chuck Plate Jig: X-4918-255-1



LASER DIODE AND FOCUS SEARCH OPERATION CHECK

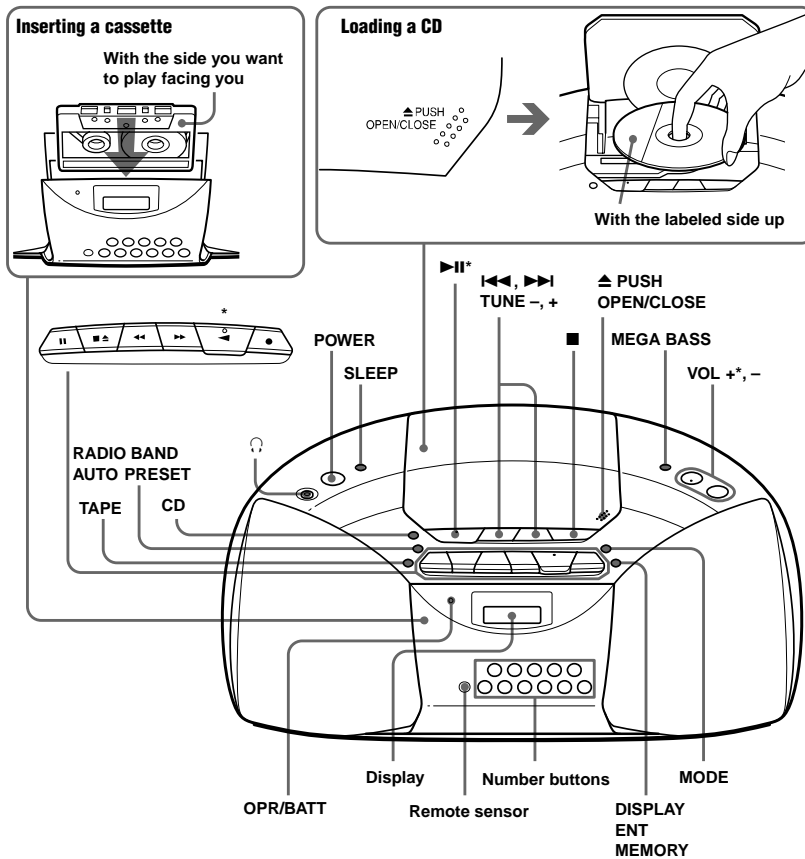
1. Turn ON the **[POWER]** button and press **[CD]** button to CD position.
2. Open the CD lid.
3. Turn on S801 with screwdriver, etc. as following figure.
4. Press the **[▶||]** (CD) button.
5. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
Objective lens moves up and down three times for focus search.



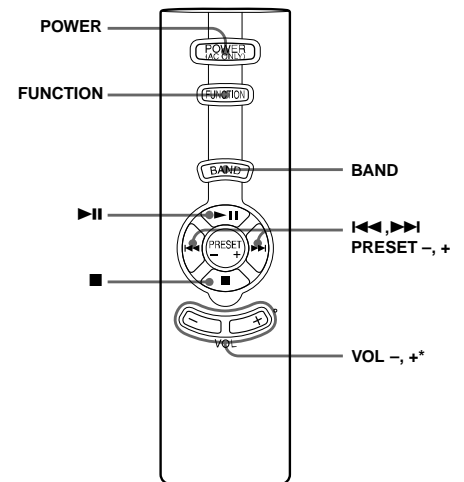
SECTION 2 GENERAL

This section is extracted from
CFD-S200's instruction manual.

Location of controls



Remote Control



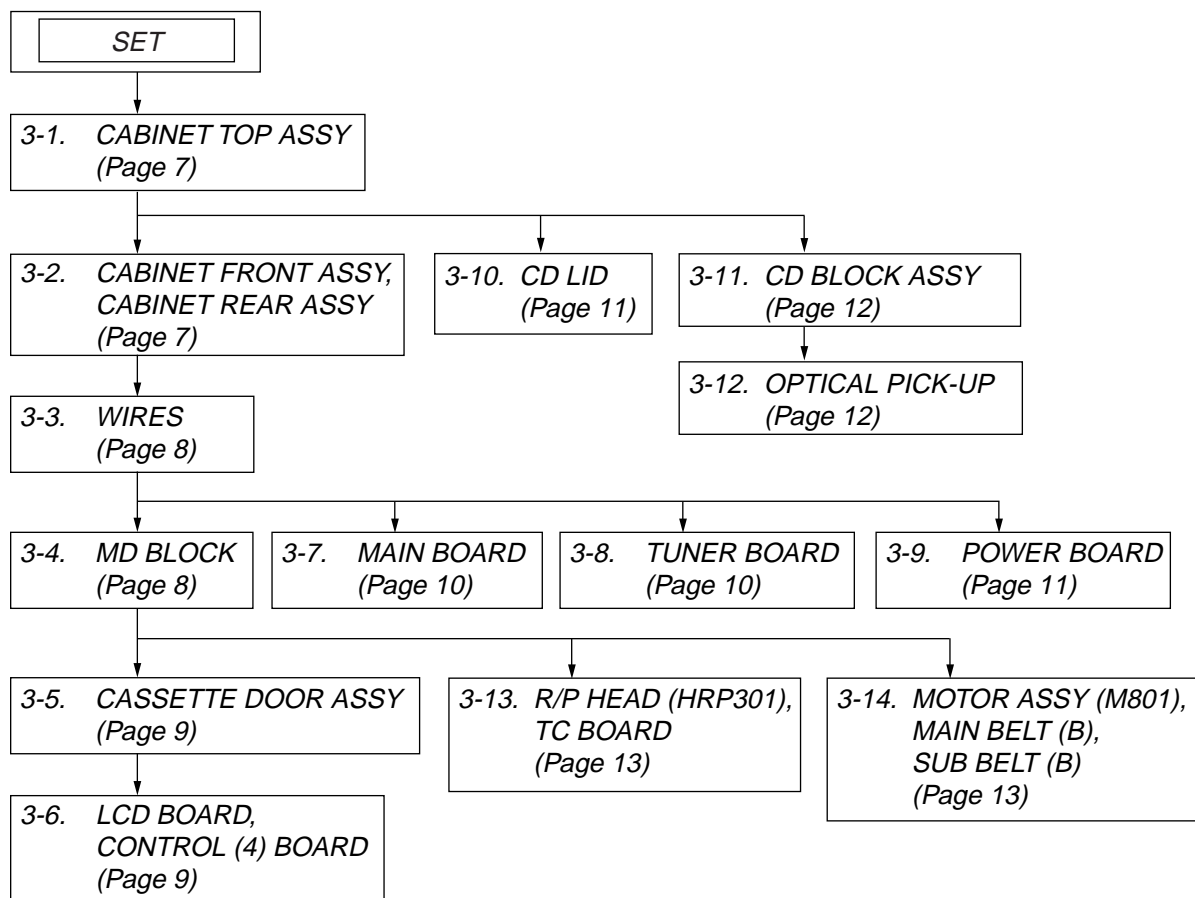
*The button has a tactile dot.

Display



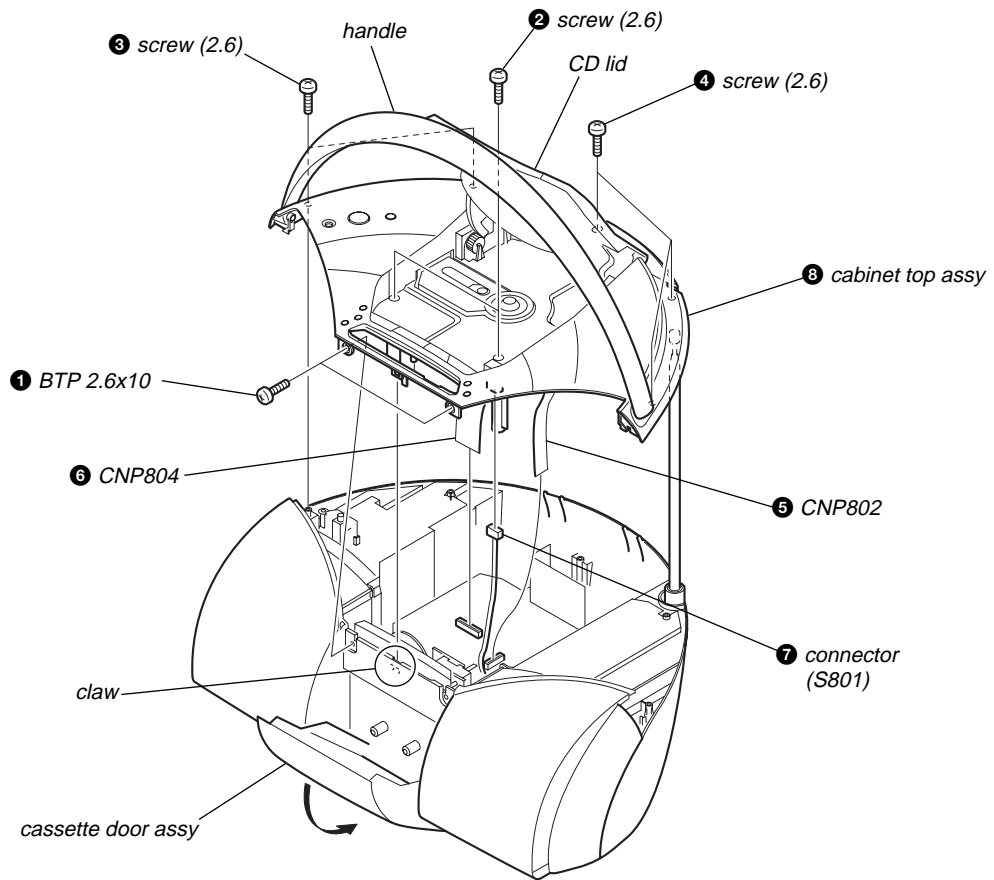
SECTION 3 DISASSEMBLY

- The equipment can be removed using the following procedure.

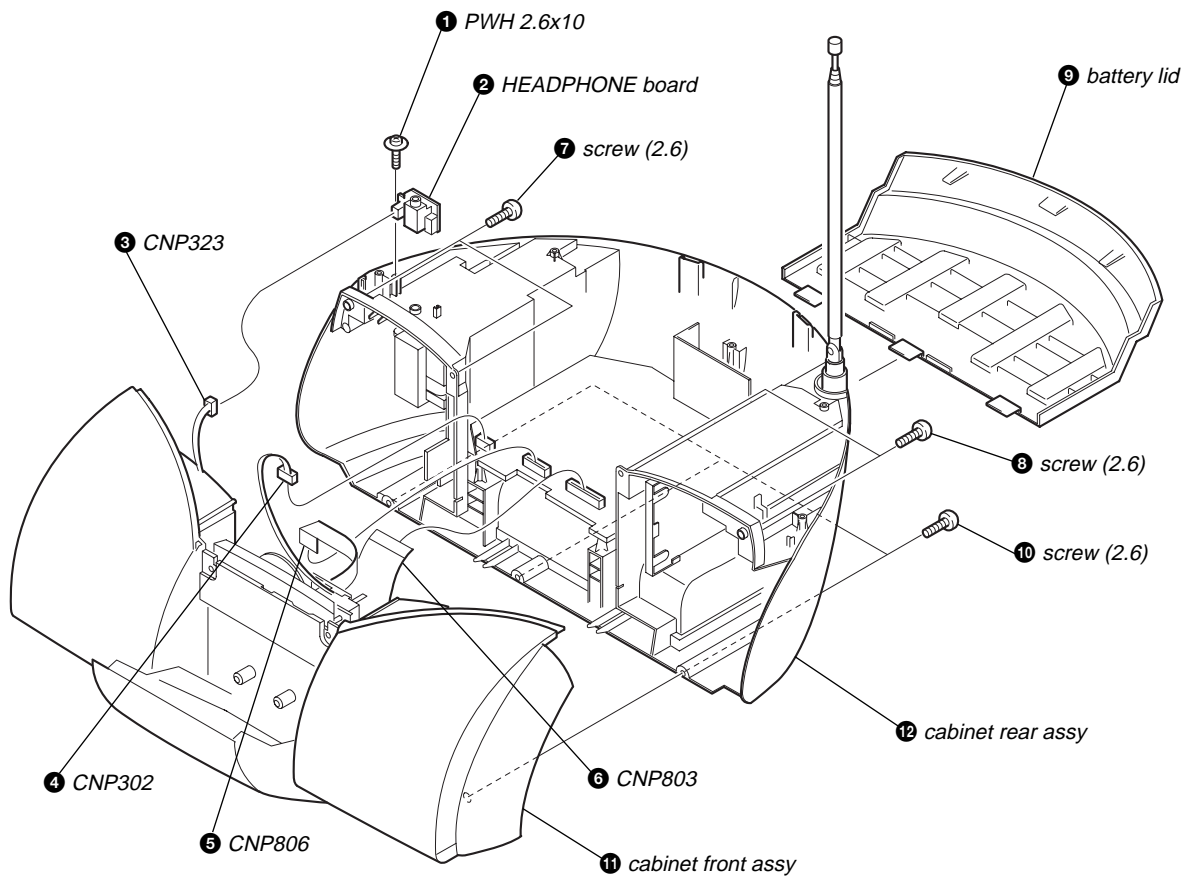


Note : Follow the disassembly procedure in the numerical order given.

3-1. CABINET TOP ASSY

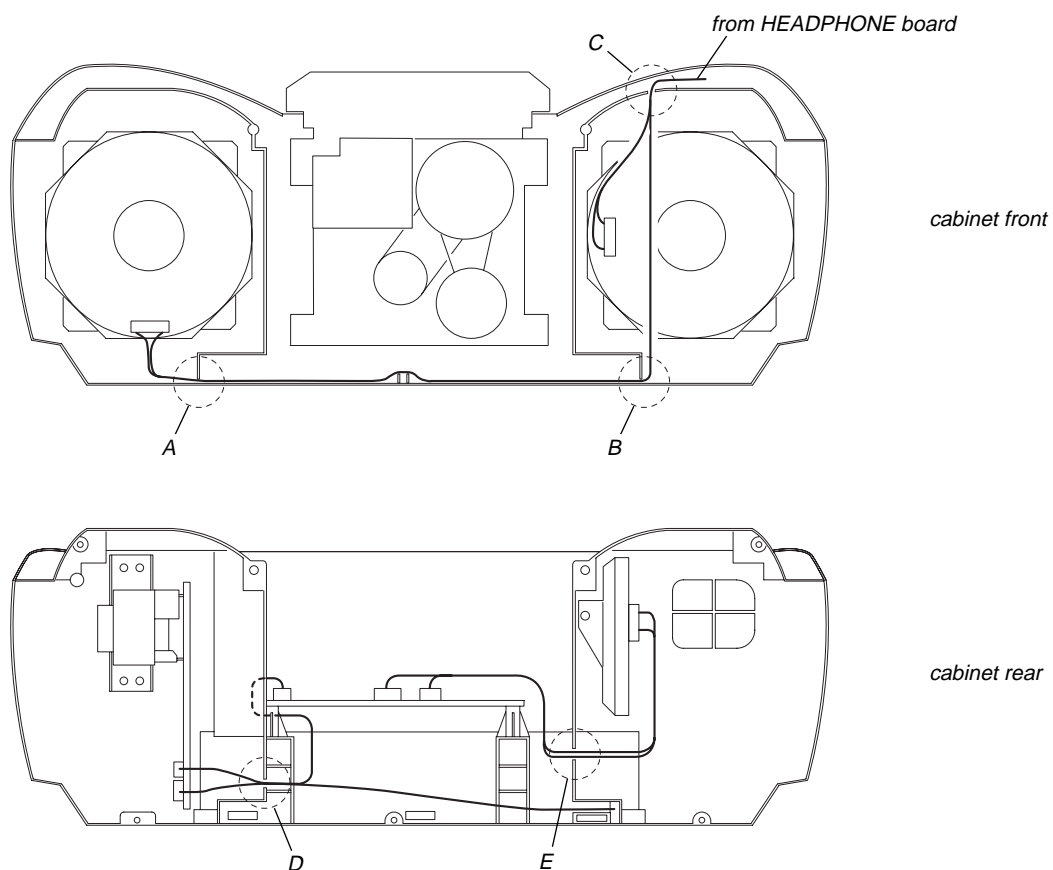


3-2. CABINET FRONT ASSY, CABINET REAR ASSY

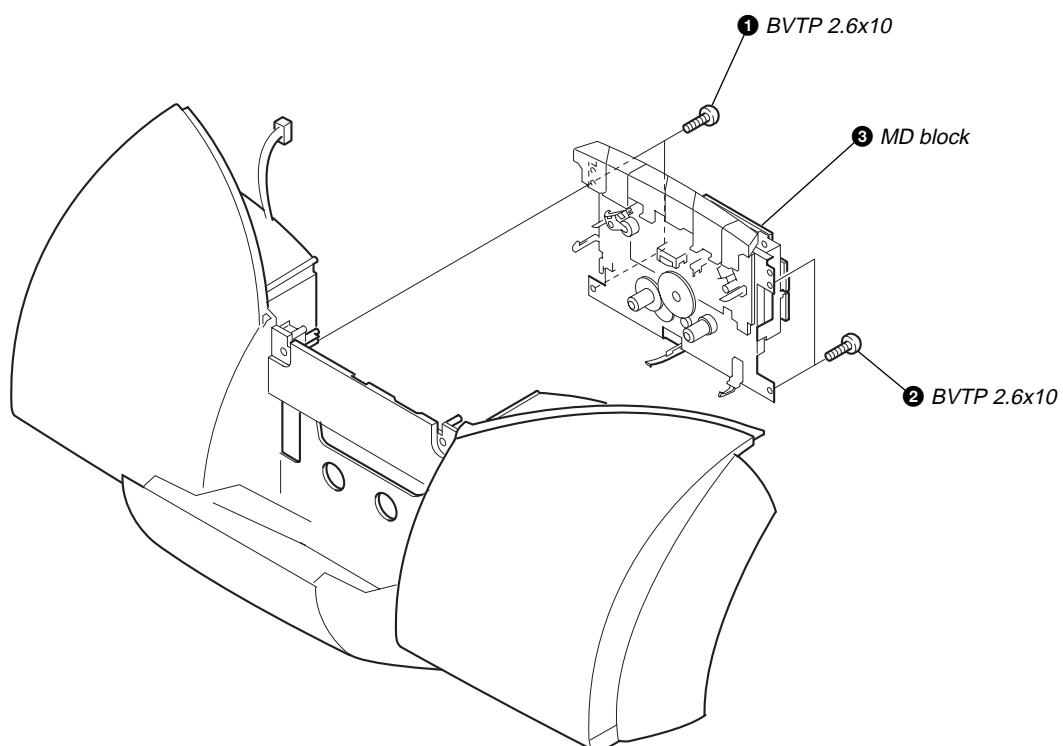


3-3. WIRES

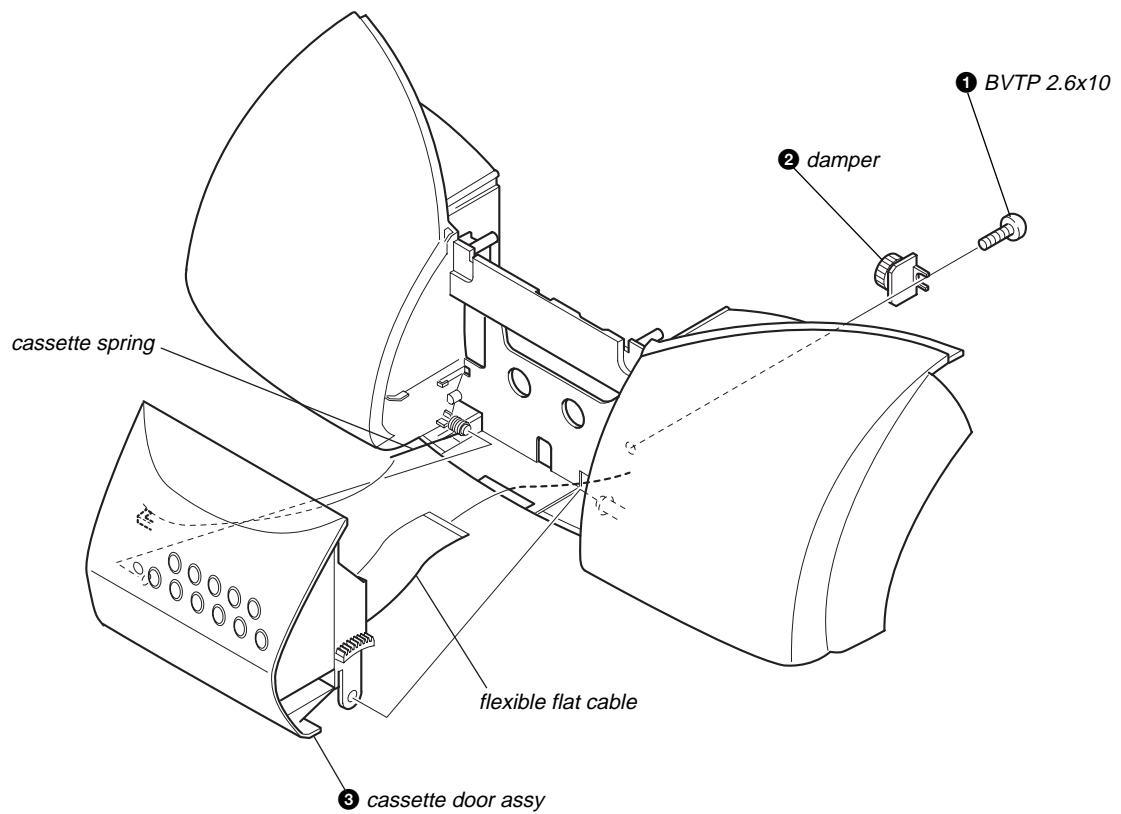
Put flat cable and wires between the cabinets and push them in the grooves located at A to E in the figure to prevent disconnection before assembling the set.



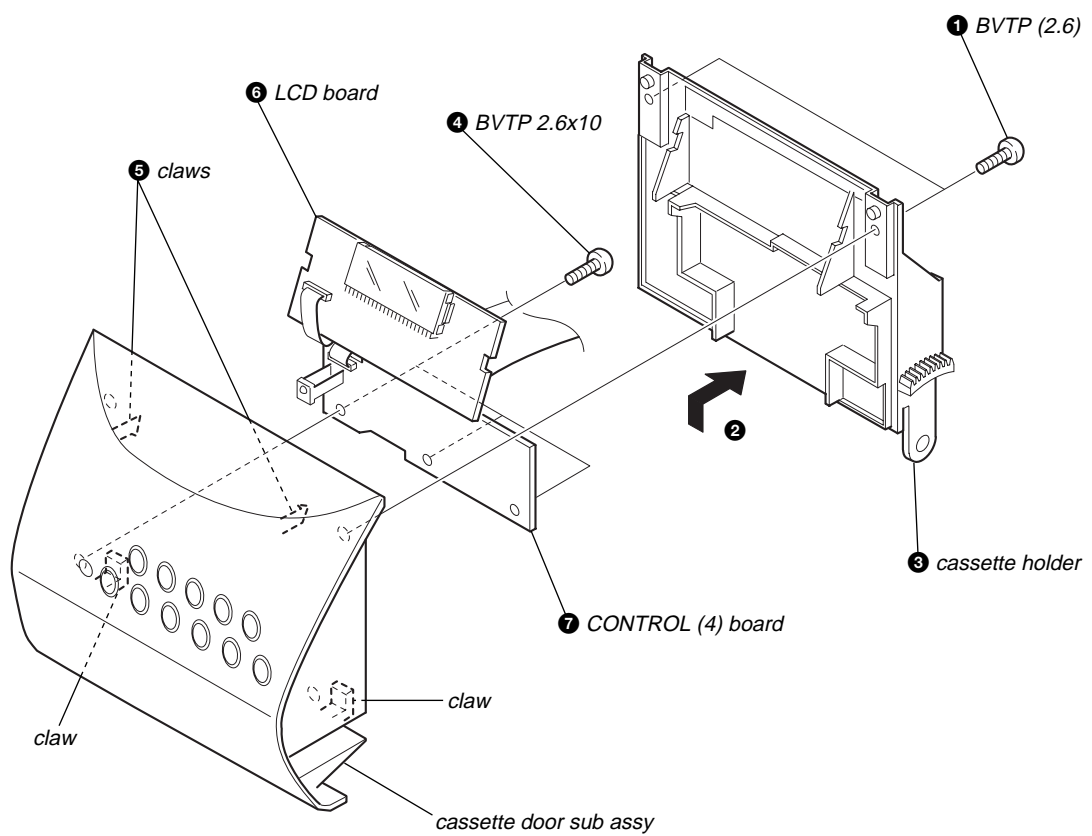
3-4. MD BLOCK



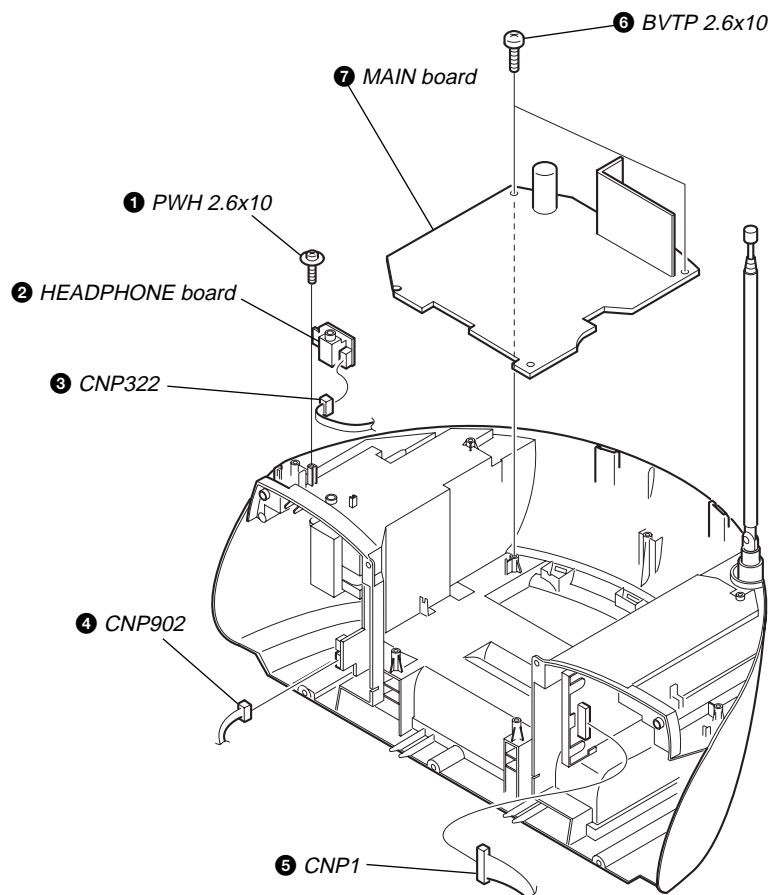
3-5. CASSETTE DOOR ASSY



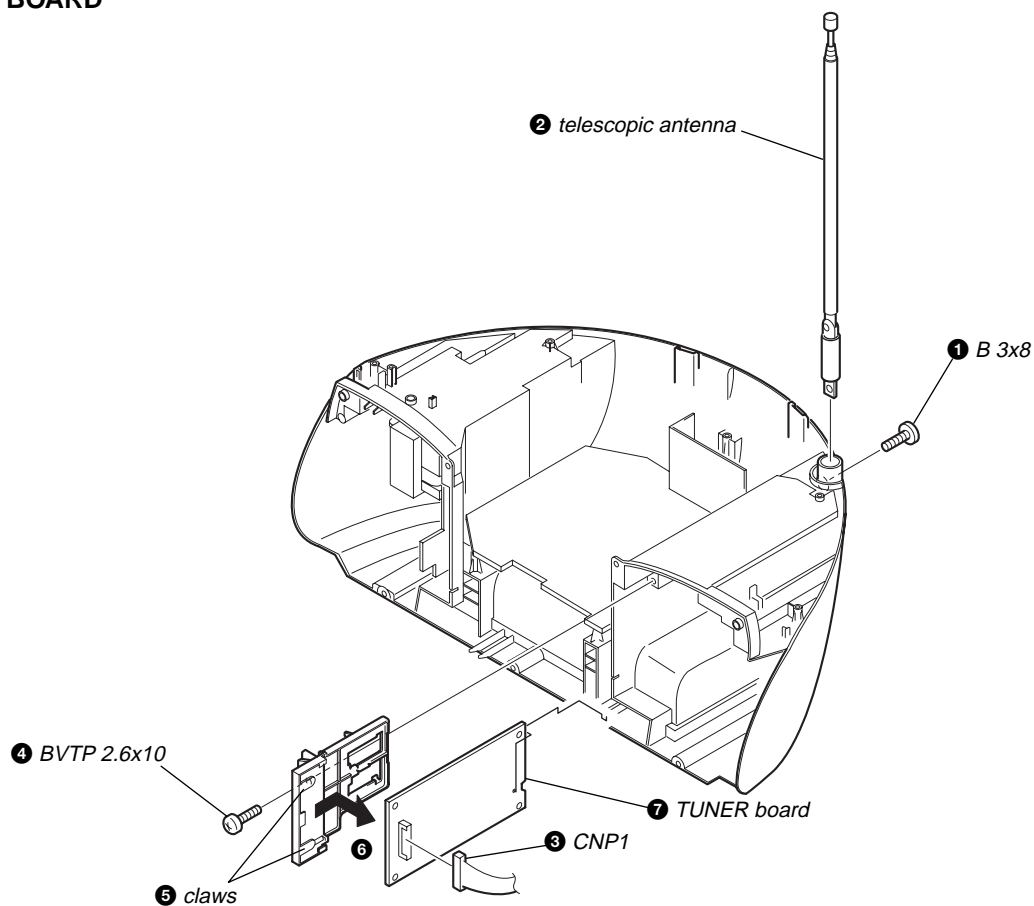
3-6. LCD BOARD, CONTROL (4) BOARD

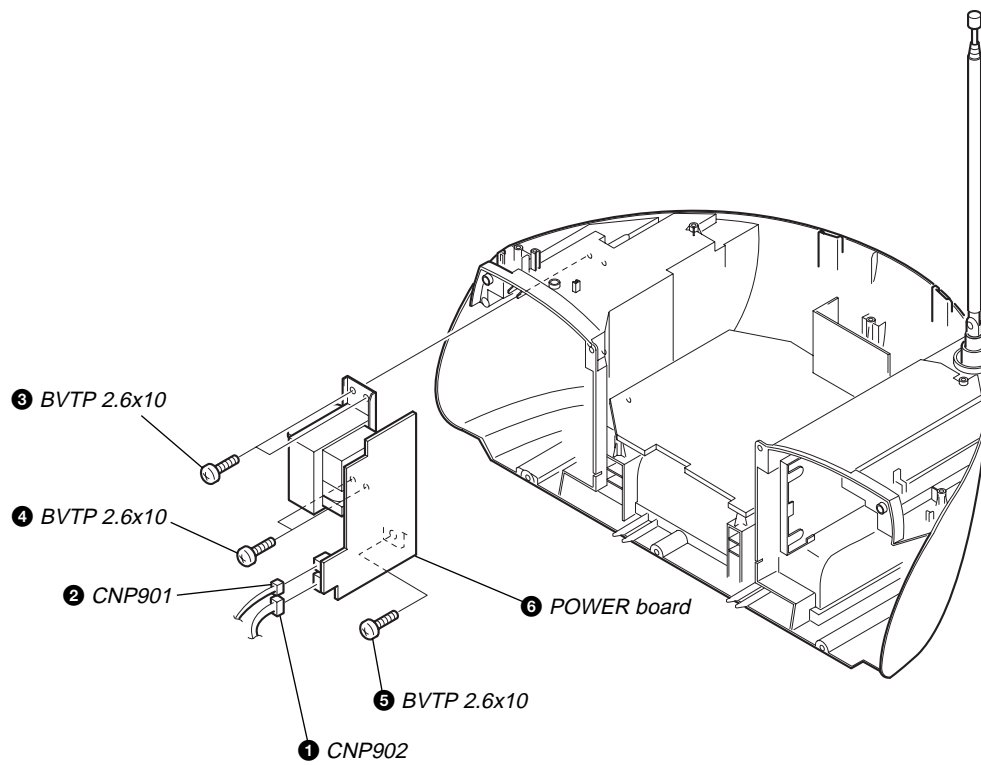
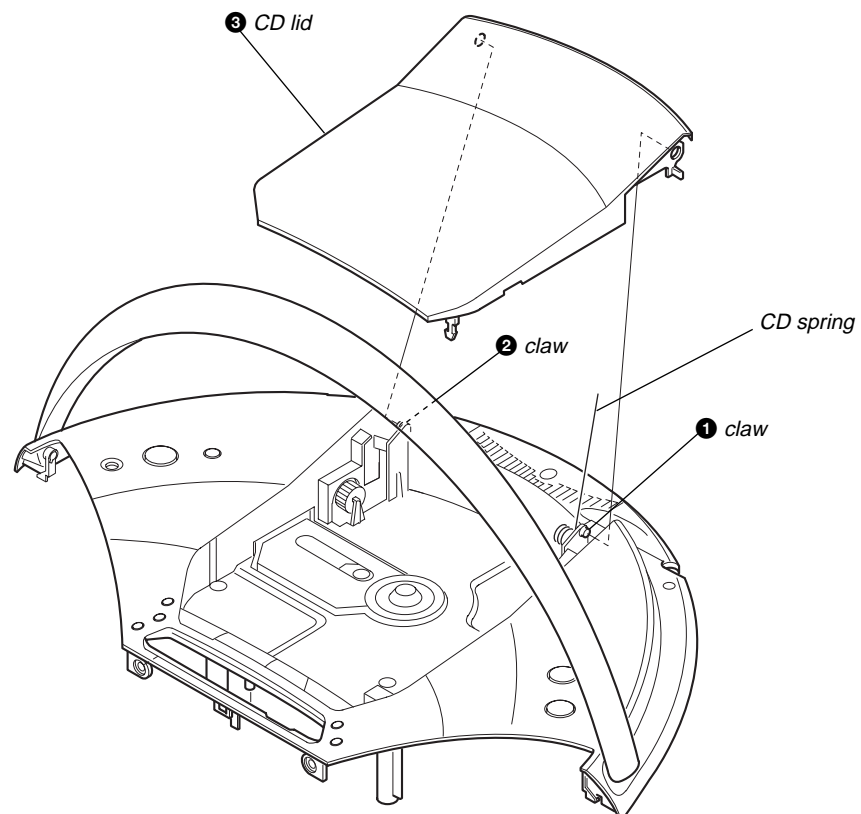


3-7. MAIN BOARD

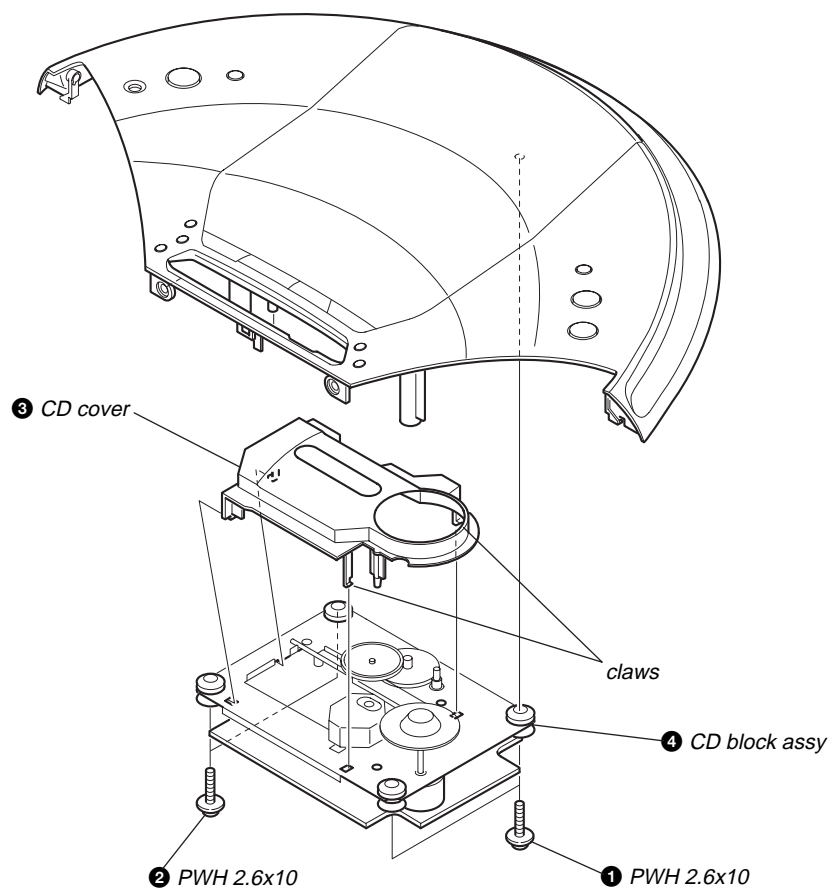


3-8. TUNER BOARD

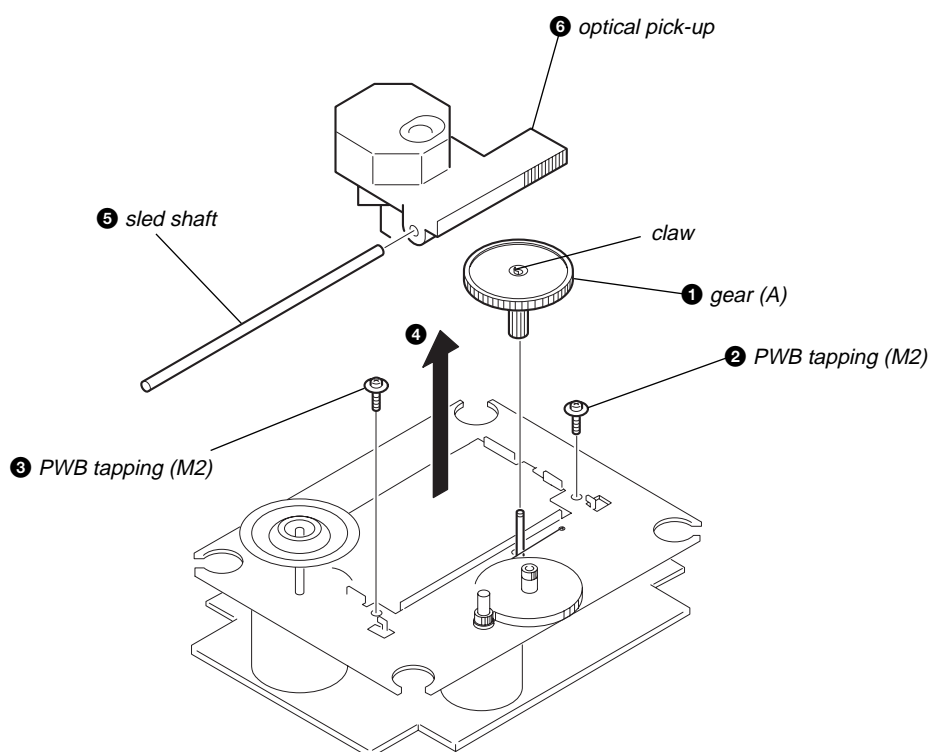


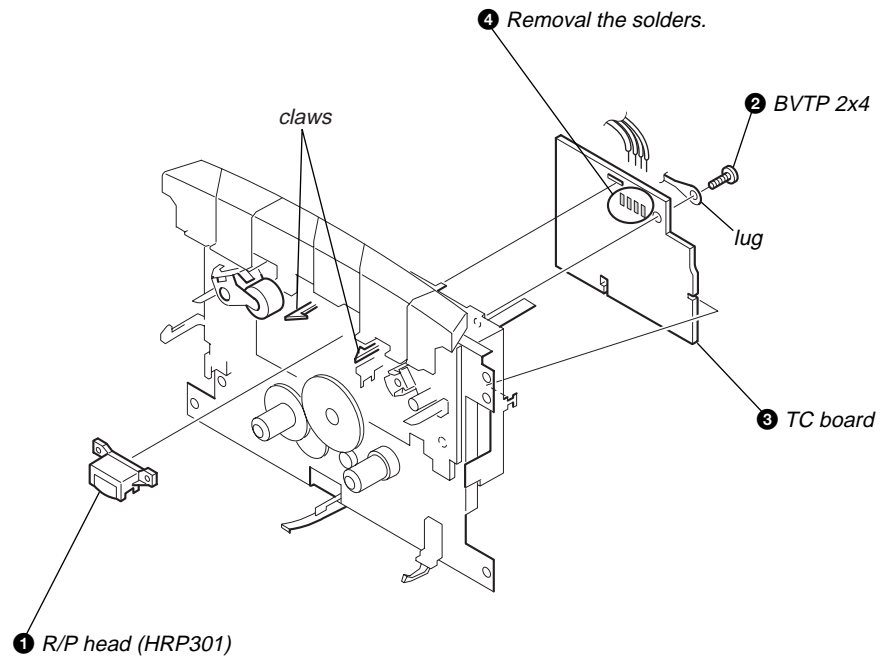
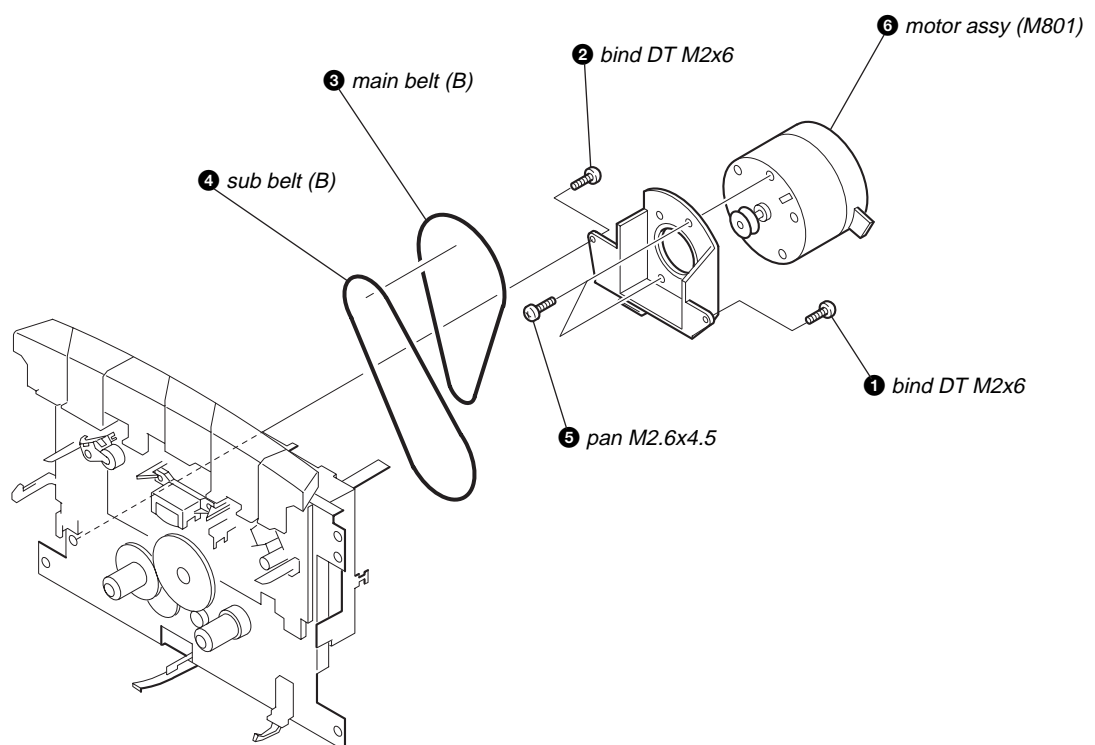
3-9. POWER BOARD**3-10. CD LID**

3-11. CD BLOCK ASSY



3-12. OPTICAL PICK-UP



3-13. R/P HEAD (HRP301), TC BOARD**3-14. MOTOR ASSY (M801), MAIN BELT (B), SUB BELT (B)**

SECTION 4 MECHANICAL ADJUSTMENTS

PRECAUTION

- Clean the following parts with a denatured-alcohol-moistened swab :

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
- Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head magnetizer close to the erase head.)
- Do not use a magnetized screwdriver for the adjustments.
- The adjustments should be performed with the rated power supply voltage (9V) unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	2.95 – 6.86 mN • m (30 – 70 g • cm) (0.42 – 0.97 oz • inch)
FWD Back Tension	CQ-102C	0.15 – 0.53 mN • m (1.5 – 5.5 g • cm) (0.021 – 0.076 oz • inch)
FF	CQ-201B	more than 5.88 mN • m (more than 60 g • cm) (more than 0.83 oz • inch)
REW	CQ-201B	more than 5.88 mN • m (more than 60 g • cm) (more than 0.83 oz • inch)

Tape Tension Measurement

Mode	Tension meter	Meter Reading
FWD	CQ-403A	more than 100 g (more than 3.53 oz)

SECTION 5 ELECTRICAL ADJUSTMENTS

TAPE SECTION	0 dB = 0.775 V
--------------	----------------

• Standard Output Level

Output terminal	HP OUT
load impedance	32 Ω
output signal level	0.25 V (–10 dB)

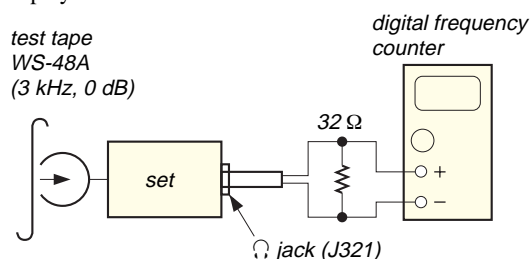
• Test Tape

Type	Signal	Used for
WS-48A	3 kHz, 0 dB	tape speed adjustment

Tape Speed Adjustment

Procedure:

Mode: playback



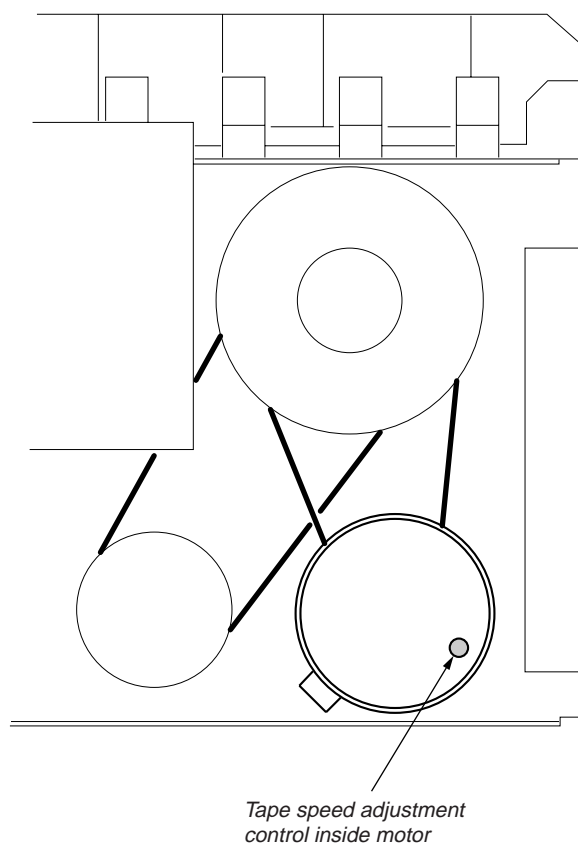
Adjust so that the value on the digital frequency counter is 3,000 Hz.

Specification Value:

Digital frequency counter
2,940 to 3,060 Hz

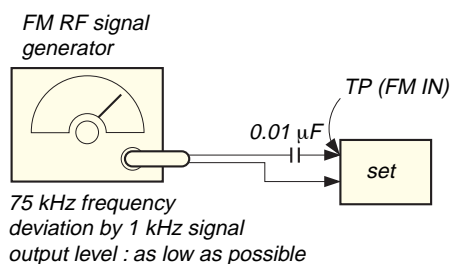
Adjust so that the frequency at the beginning and that at the end of tape winding are between 2,970 to 3,030 Hz.

Adjustment Location:

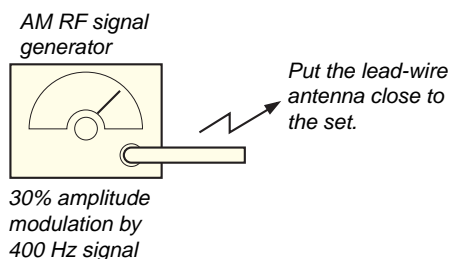
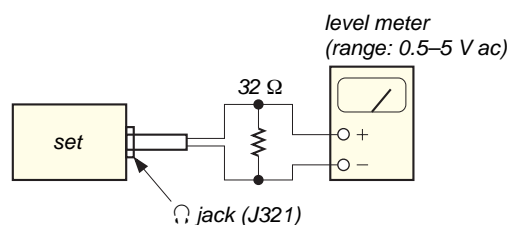
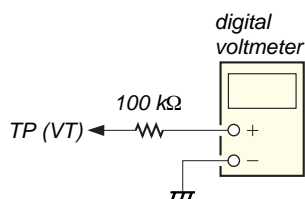


TUNER SECTION **0 dB = 1 μ V**• **FM Section****Setting:**

RADIO BAND•AUTO PRESET button: FM

• **AM Section****Setting:**

RADIO BAND•AUTO PRESET button: AM

• **Connecting Level Meter (FM and AM)**• **Connecting Digital Voltmeter (FM and AM)**

- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM IF ADJUSTMENT

Adjust for a maximum reading on level meter.

T2

10.7 MHz

FM FREQUENCY COVERAGE ADJUSTMENT

Frequency Display	87.5 MHz	108 MHz
Reading on Digital voltmeter	1.3 ± 0.3 V	3.0 ± 0.2 V
Adjustment Part	<confirmation>	L2

FM TRACKING ADJUSTMENT

Adjust for a maximum reading on level meter.

L1

CT1

87.5 MHz

108 MHz

AM IF ADJUSTMENT

Adjust for a maximum reading on level meter.

T1

450 kHz

AM FREQUENCY COVERAGE ADJUSTMENT

Frequency Display	530 kHz	1,710 kHz
Reading on Digital voltmeter	1.0 ± 0.05 V	5.3 ± 0.7 V
Adjustment Part	L4	<confirmation>

AM TRACKING ADJUSTMENT

Adjust for a maximum reading on level meter.

L3

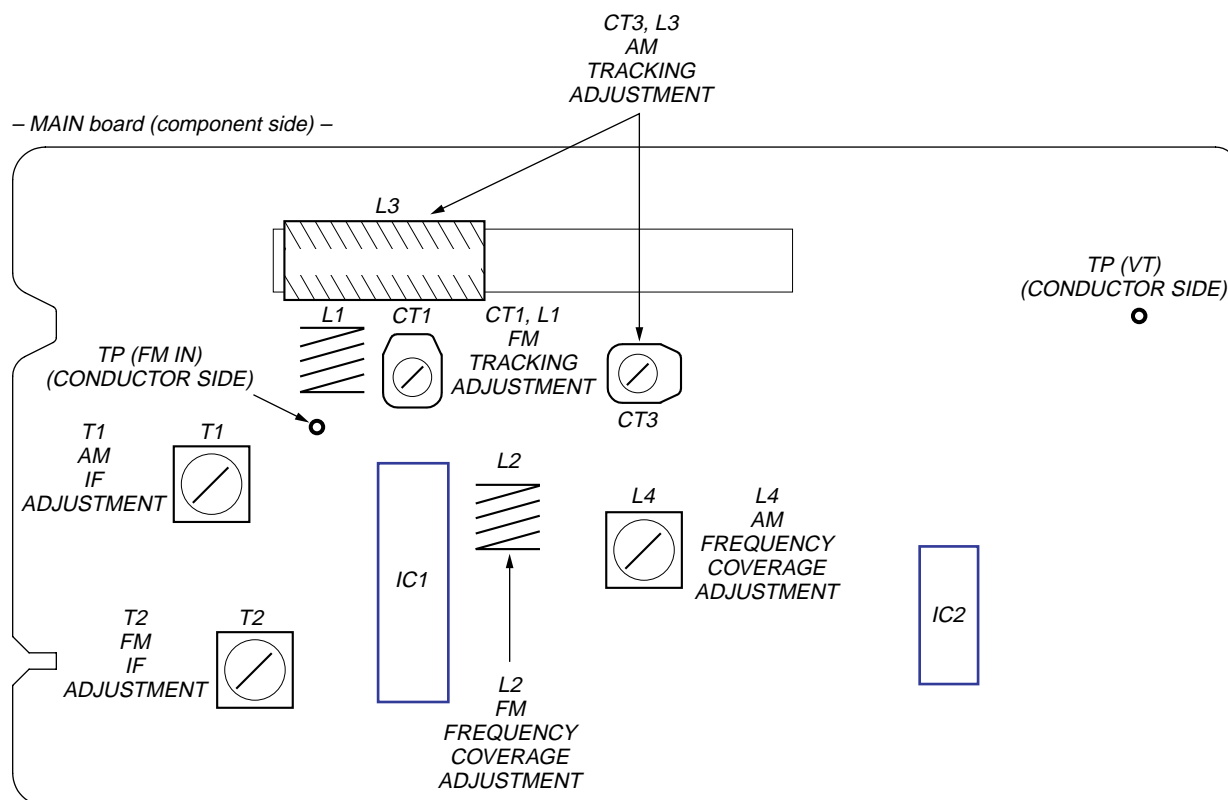
CT3

620 kHz

1,400 kHz

Adjustment Location: See page 16.

Adjustment Location:



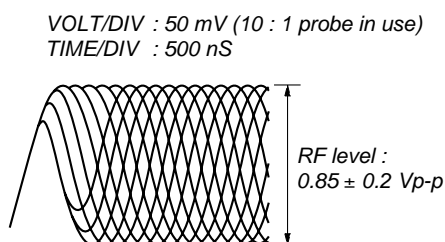
CD SECTION

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

FOCUS BIAS CHECK

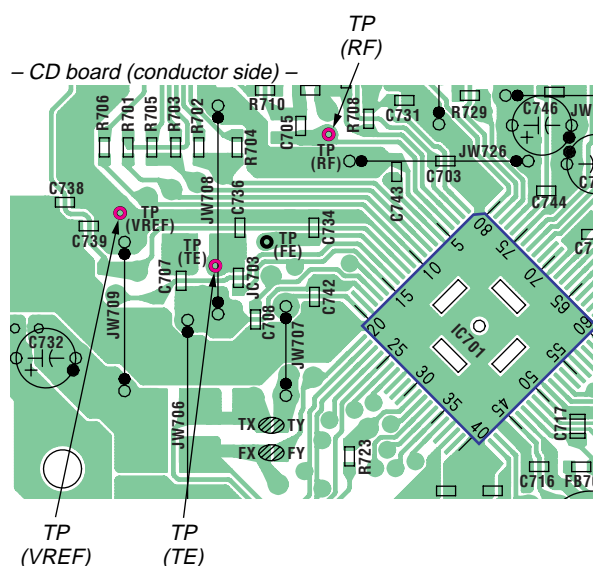
1. Connect the oscilloscope between IC701 pin ④ and pin ⑪ (or TP (RF) and TP (VREF)).
2. Insert the disc (YEDS-18). (Part No. : 3-702-101-01)
3. Press the ► (CD) button.
4. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)
A good eye pattern means that the diamond shape (◇) 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:



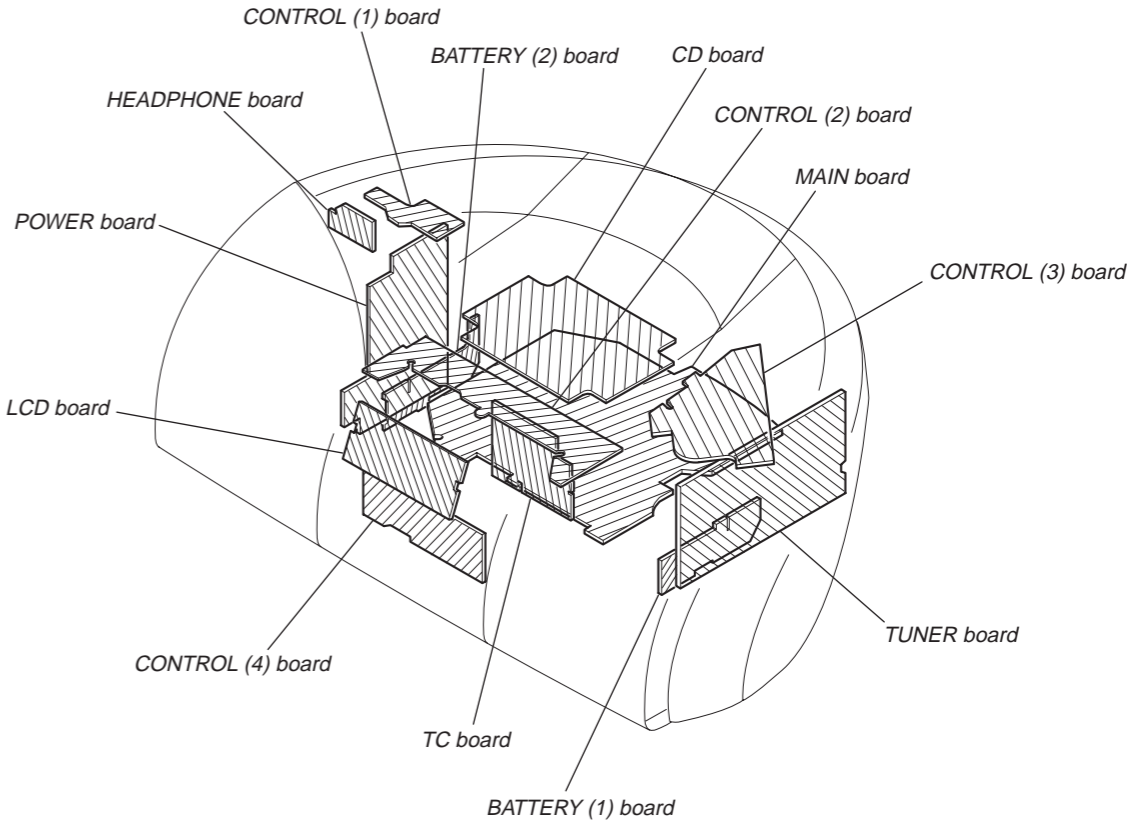
SECTION 6
DIAGRAMS

6-1. IC PIN DESCRIPTION
•IC802 uPD789477GC-A13-8BT (SYSTEM CONTROLLER)

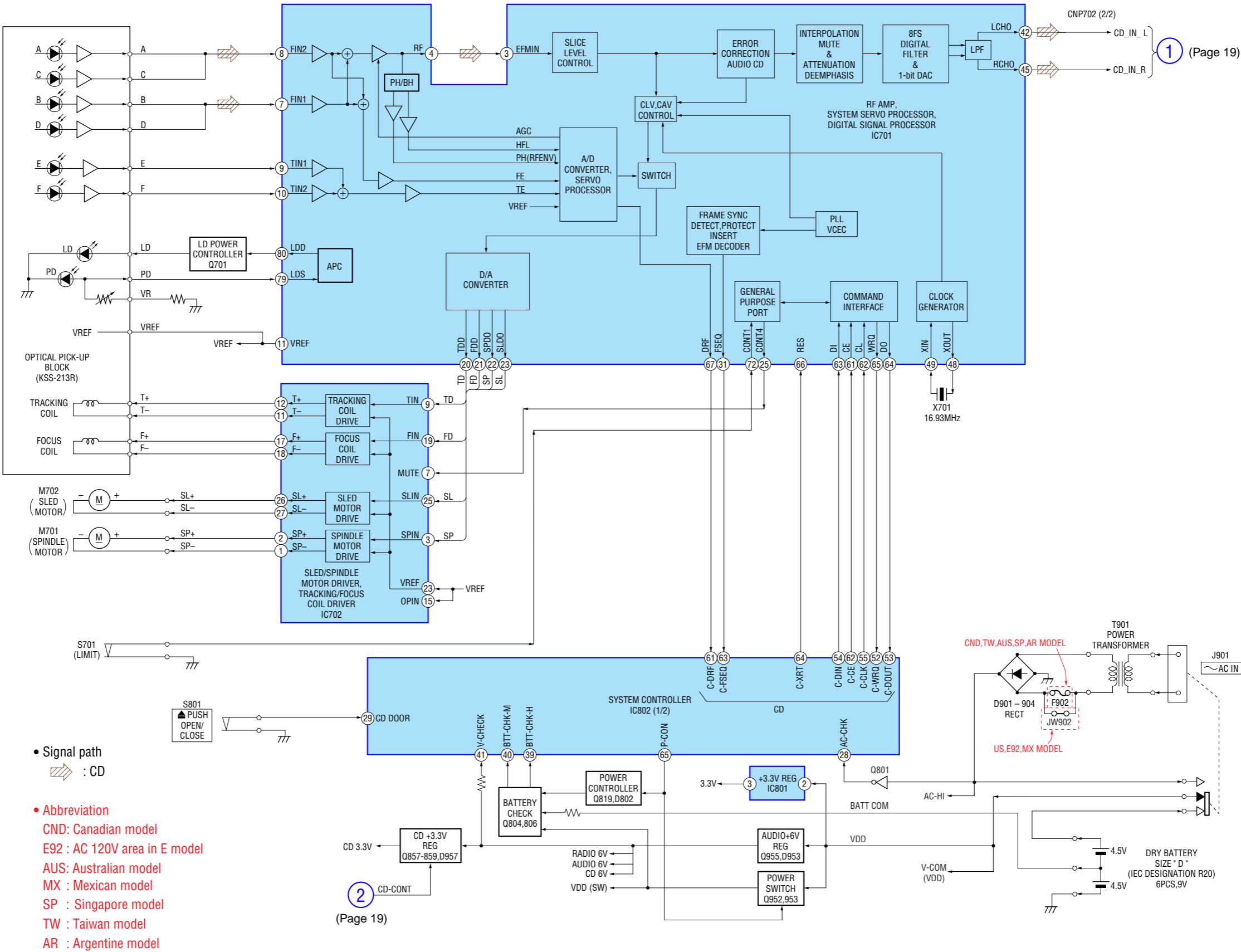
Pin No.	Pin Name	I/O	Pin Description
1, 2	NC	—	Not used. (Open)
3 to 5	VLC2 to 0	I	LCD drive bias voltage output
6 to 9	COM0 to 3	O	LCD drive common output
10 to 26	S0 to 16	O	LCD drive segment output
27	940-CHK	I	Not used. (Open)
28	AC-CHK	I	AC power supply detection signal input L: AC in
29	CD-DOOR	I	CD door open/close switch input L: Close
30	S-ROCK	O	ROCK LED control signal output Not used. (Open)
31	S-POP	O	POP LED control signal output Not used. (Open)
32	S-JAZZ	O	JAZZ LED control signal output Not used. (Open)
33	S-VOCAL	O	VOCAL LED control signal output Not used. (Open)
34	S-SUR	O	SURROUND LED control signal output Not used. (Open)
35	A-MUTE	O	Audio mute output H: Mute
36	CD	O	CD function output H: CD
37	TAPE	O	Tape function output H: Tape
38	AVDD	—	Analog power supply pin for A/D converter (+3.3 V)
39	BTT-CHK-H	I	Battery check input for Hi-voltage
40	BTT-CHK-M	I	Battery check input for Mid-voltage
41	REC	I	Tape record signal input H: REC
42 to 45	KEY4 to 1	I	Key input
46	MODE CHK	I	Destination setting input
47	AGND	—	Analog ground for A/D converter
48	REMOTE	I	Sircs receiver data input
49	TC-PLAY	I	Tape play switch input L: Play
50	WP/INI	O	Wake-up/Initial setting read signal output
51	MT-CONT	O	Motor control signal output Not used. (Open)
52	C-WRQ	I	CD write request data input
53	C-DOUT	I	CD digital signal processor data input
54	C-DIN	O	CD digital signal processor data output
55	C-CLK	I	CD serial data transfer clock signal input
56	R-COUNT	I	Tuner PLL IF count input
57	R-DATA	O	Tuner PLL data output
58	R-CLK	O	Tuner PLL clock output
59	R-LAT	O	Tuner PLL latch output
60	B-MUTE	O	Tuner mute signal output H: Mute
61	C-DRF	I	CD DRF signal input
62	C-CE	O	CD chip enable output
63	C-FSEQ	I	CD frame SYNC input
64	C-XRT	O	CD system reset output
65	P-CON	O	System power control output H: PCON
66	ISS1	O	ISS1 output
67	ISS2	O	ISS2 output
68	DBB	O	MEGA BASS control output H: MEGA BASS off, L: MEGA BASS on
69	ICO	I	Connected to VSS.
70	XT1	I	Sub system oscillation input (32.768 kHz)
71	XT2	O	Sub system oscillation output (32.768 kHz)
72	VDD	—	Main power supply pin for A/D converter (+3.3 V)
73	VSS	—	Main ground
74	X1	I	Main system oscillation input (4.19 MHz)

Pin No.	Pin Name	I/O	Pin Description
75	X2	O	Main system oscillation output (4.19 MHz)
76	RST	I	System reset input
77	V-CLK	O	Volume clock output
78	V-DATA	O	Volume data output
79	SCL	O	EEPROM clock output
80	SDA	I/O	EEPROM input/output

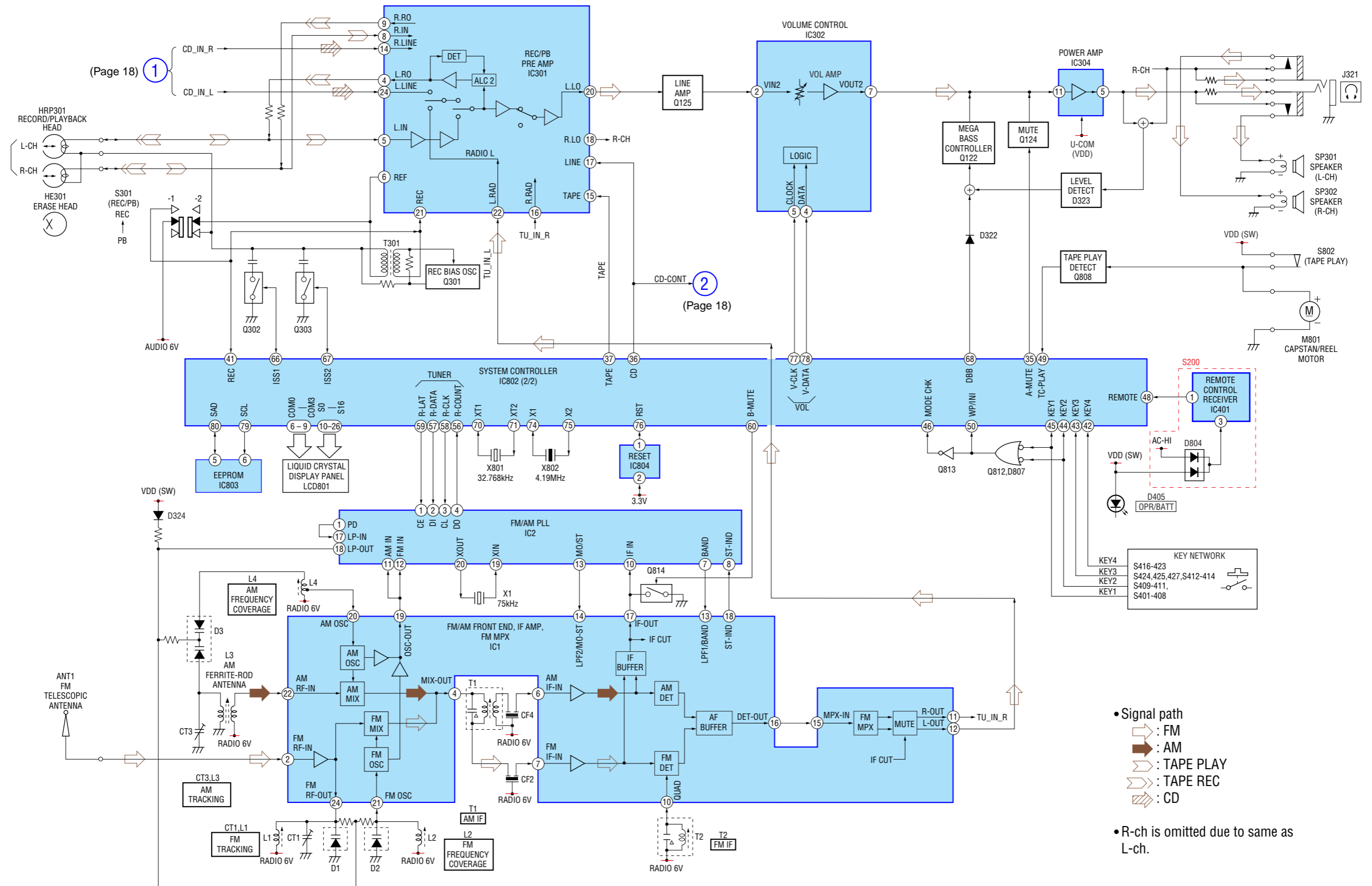
6-2. CIRCUIT BOARDS LOCATION



6-3. BLOCK DIAGRAM — CD SECTION —



6-4. BLOCK DIAGRAM — MAIN SECTION —



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

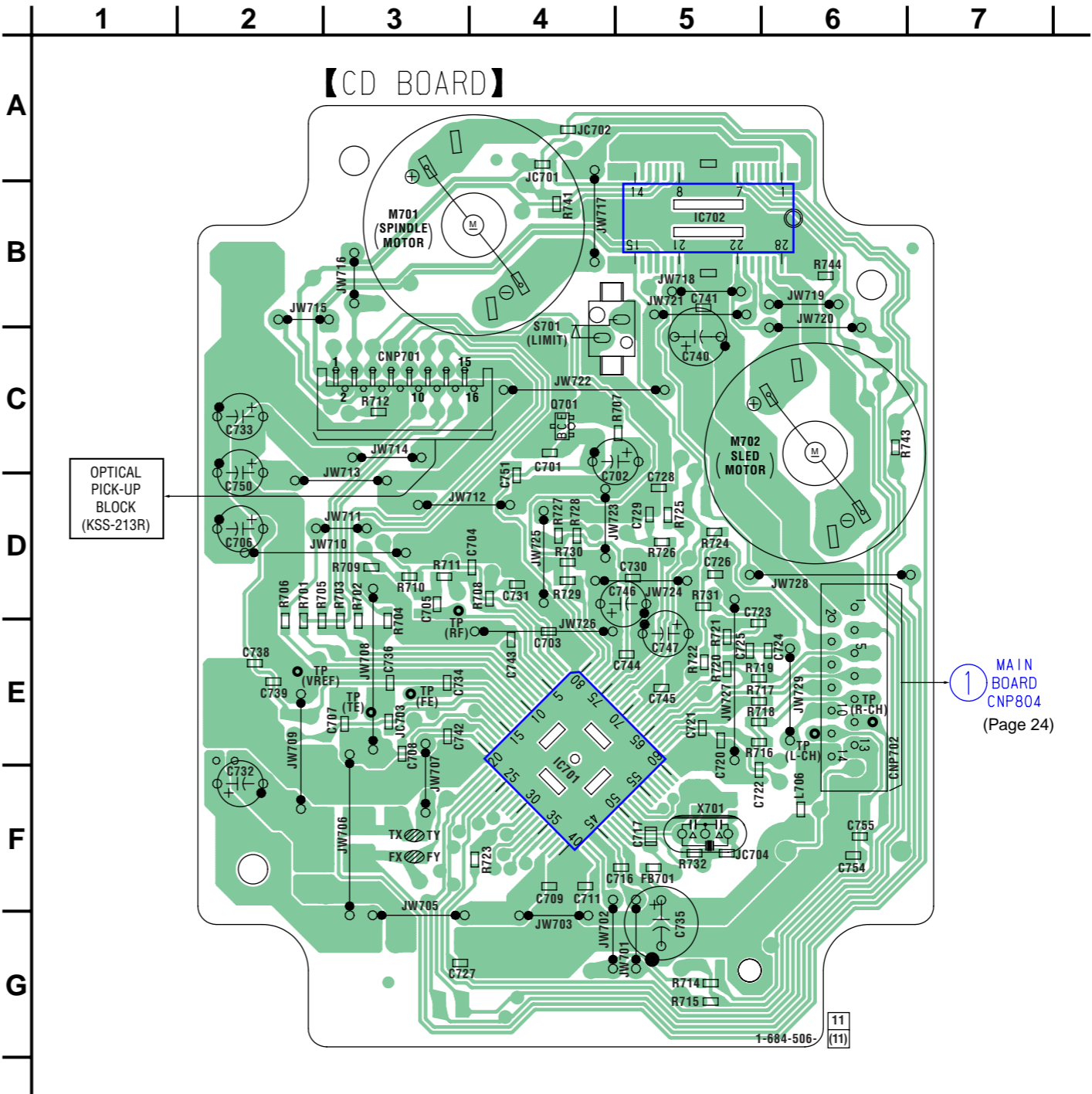
- Common Note on Schematic Diagrams:**
- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$
50 WV or less are not indicated except for electrolytics
and tantalums.
 - All resistors are in Ω and $1/4\text{ W}$ or less unless otherwise
specified.
 - \triangle : internal component.
 - \square : panel designation.

Note: The components identi- fied by mark \triangle or dotted line with mark \triangle are criti- cal for safety. Replace only with part number specified.	Note: Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
---	---

- --- : B+ Line.
- \square : adjustment for repair.
- Total current is measured with no cassette installed.
- Power voltage is dc 9V and fed with regulated dc power
supply from battery terminal.
- Voltages are taken with a VOM (Input impedance 10 M Ω).
Voltage variations may be noted due to normal produc-
tion tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal produc-
tion tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - \Rightarrow : FM
 - \Rightarrow : AM
 - \Rightarrow : PB
 - \Rightarrow : REC
 - \Rightarrow : CD
- Abbreviation
 - CND : Canadian model.
 - E92 : AC 120V area in E model.
 - MX : Mexican model.
 - TW : Taiwan model.
 - AUS : Australian model.
 - SP : Singapore model.
 - AR : Argentine model.

- Common Note on Printed Wiring Boards:**
- \circ : parts extracted from the component side.
 - --- : parts extracted from the conductor side.
 - \triangle : internal component.
 - \square : Pattern from the side which enables seeing.
 - Abbreviation
 - CND : Canadian model.
 - E92 : AC 120V area in E model.
 - MX : Mexican model.
 - TW : Taiwan model.
 - AUS : Australian model.
 - SP : Singapore model.
 - AR : Argentine model.

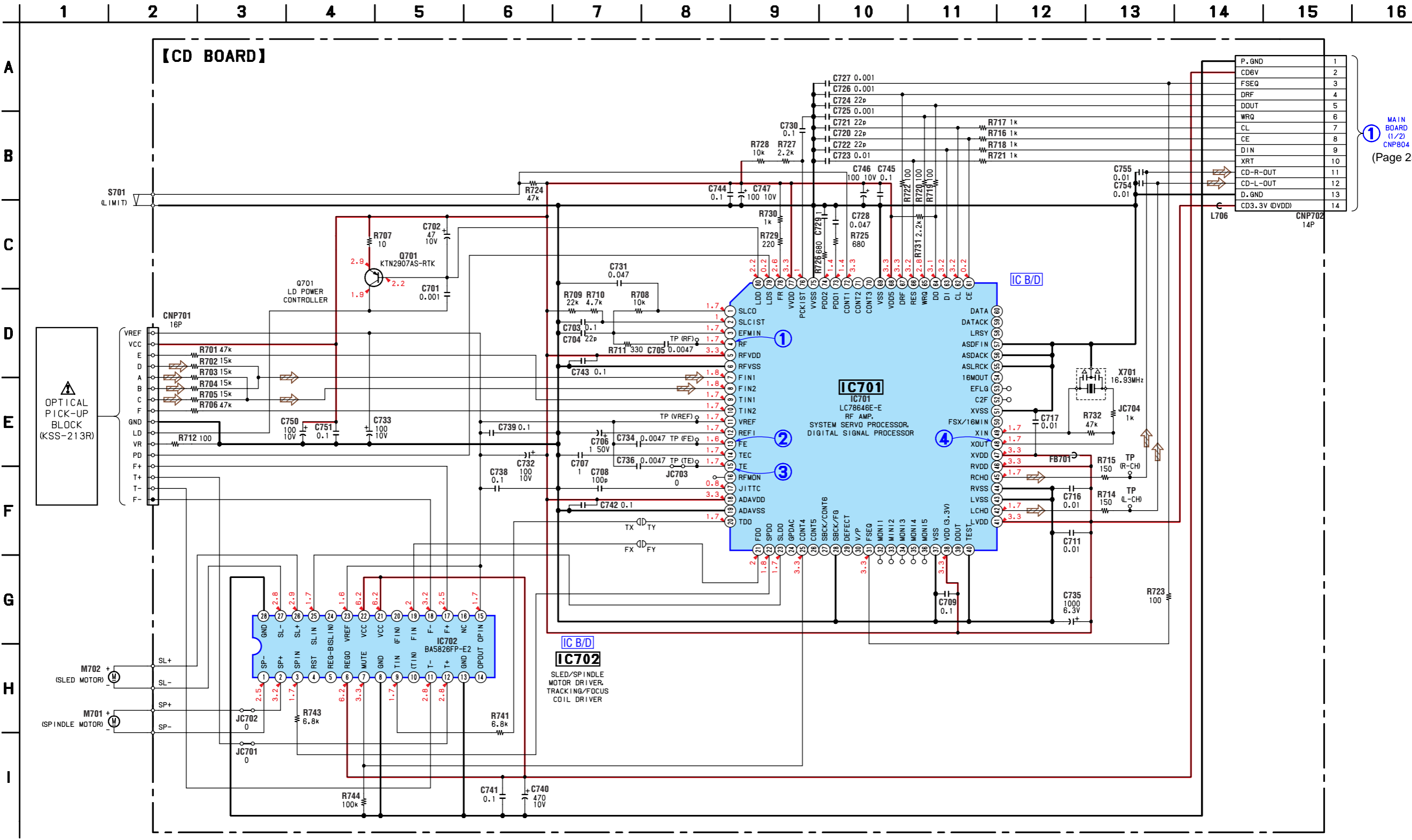
6-5. PRINTED WIRING BOARD — CD SECTION — • Refer to page 17 for Circuit Boards Location.



• Semiconductor Location

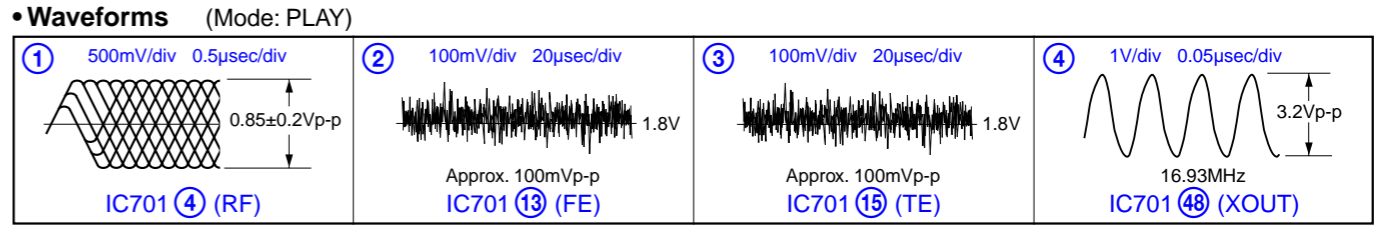
Ref. No.	Location
IC701	E-4
IC702	B-5
Q701	C-4

6-6. SCHEMATIC DIAGRAM — CD SECTION — • Refer to page 20 for Common Note on Schematic Diagrams and page 35 for IC Block Diagrams.

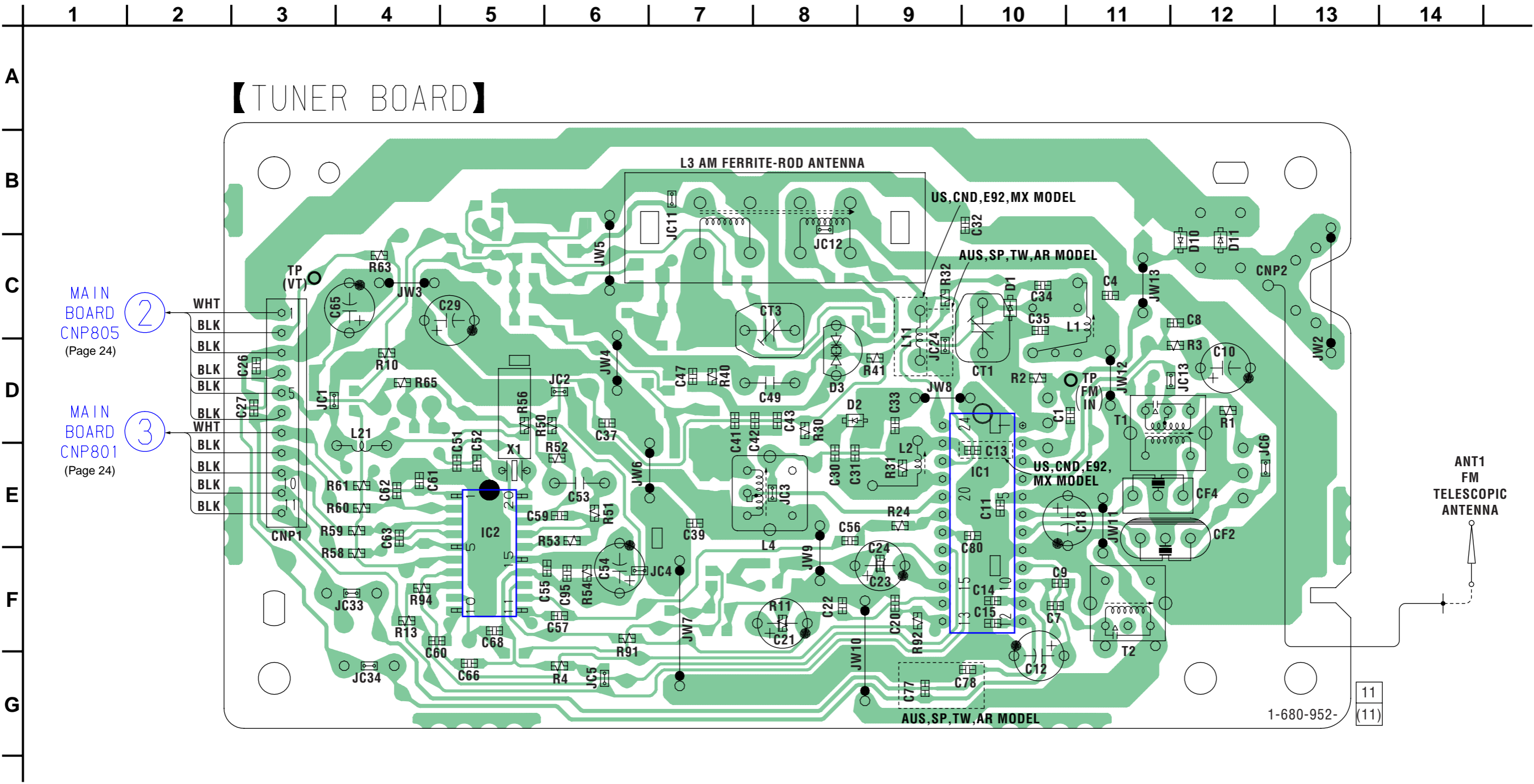


1 MAIN BOARD (1/2) CNP804 (Page 25)

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



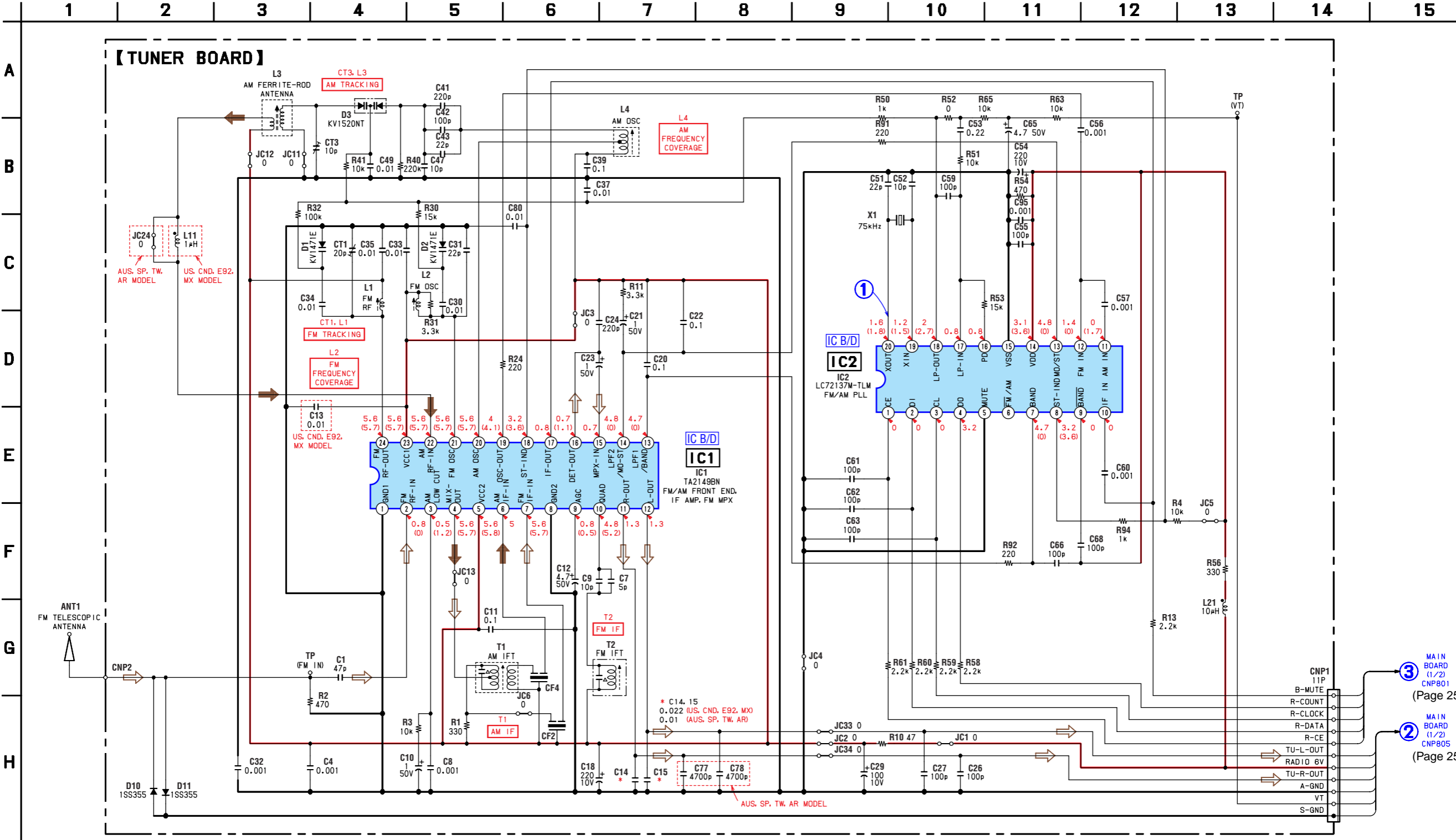
6-7. PRINTED WIRING BOARD — TUNER SECTION — • Refer to page 17 for Circuit Boards Location and page 20 for Common Note on Printed Wiring Boards.



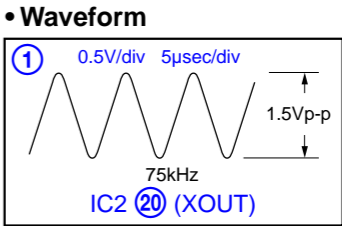
• Semiconductor Location

Ref. No.	Location
D1	C-10
D2	D-8
D3	D-8
D10	B-12
D11	B-12
IC1	E-10
IC2	E-5

6-8. SCHEMATIC DIAGRAM — TUNER SECTION — • Refer to page 20 for Common Note on Schematic Diagrams and page 36 for IC Block Diagrams.



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

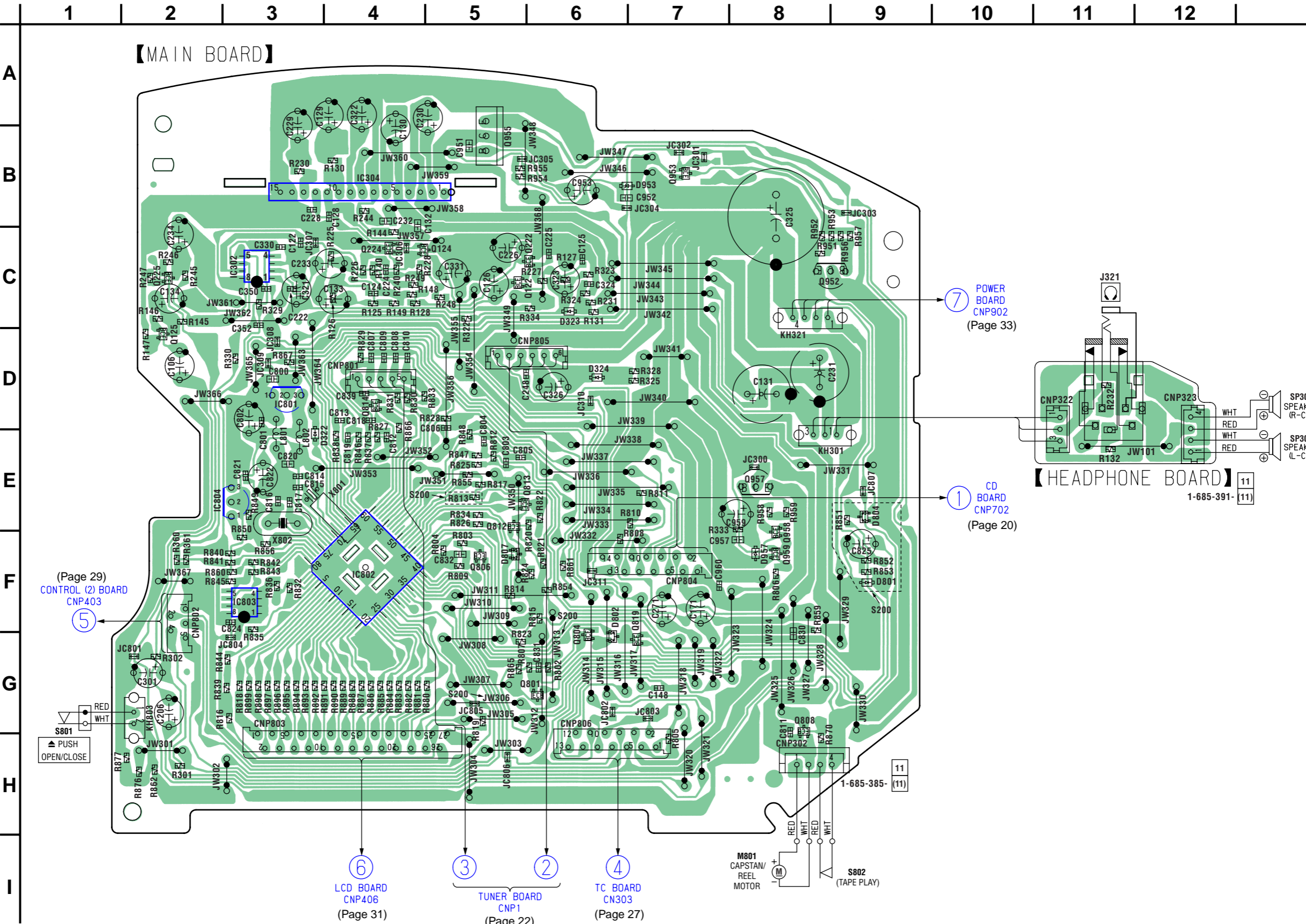


③ MAIN BOARD (1/2) CNP801 (Page 25)
② MAIN BOARD (1/2) CNP805 (Page 25)

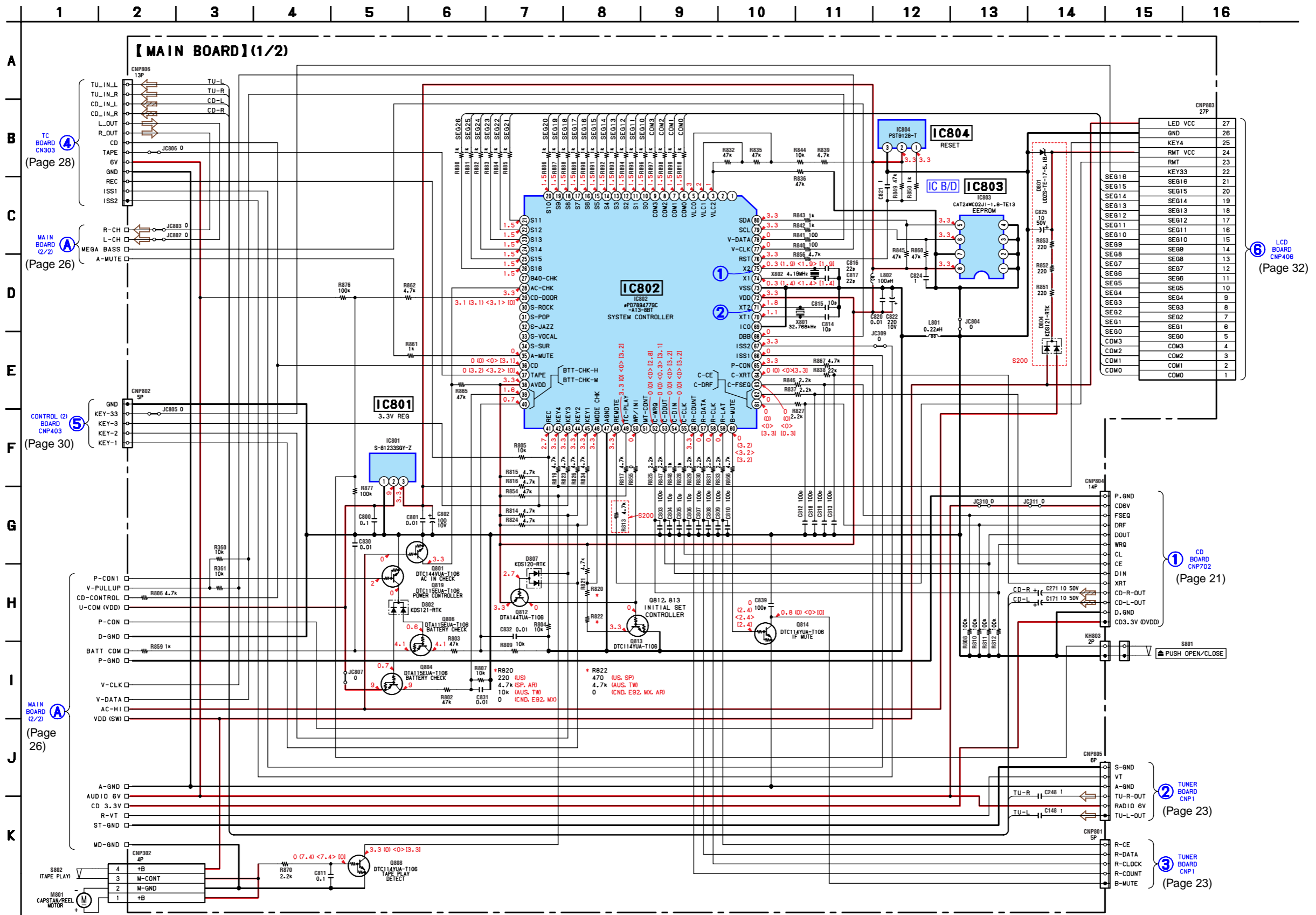
6-9. PRINTED WIRING BOARDS — MAIN SECTION — • Refer to page 17 for Circuit Boards Location and page 20 for Common Note on Printed Wiring Boards.

• Semiconductor Location

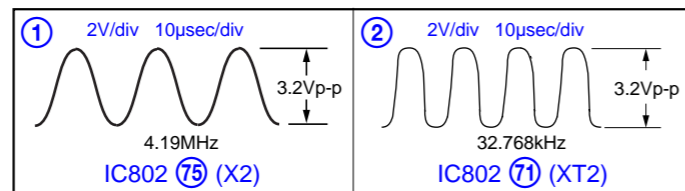
Ref. No.	Location
D322	E-3
D323	C-6
D324	D-6
D801	F-9
D802	G-6
D804	E-9
D807	F-5
D953	B-6
D957	F-8
IC302	C-3
IC304	B-4
IC801	D-3
IC802	F-4
IC803	F-3
IC804	E-3
Q122	C-5
Q124	C-5
Q125	D-2
Q222	C-6
Q225	C-2
Q801	G-6
Q804	G-6
Q806	F-5
Q808	G-8
Q812	E-5
Q813	E-5
Q814	D-4
Q819	G-7
Q952	C-8
Q953	B-7
Q955	A-5
Q957	E-8
Q958	F-8
Q959	F-8



6-10. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — • Refer to page 20 for Common Note on Schematic Diagrams and page 37 for IC Block Diagrams.



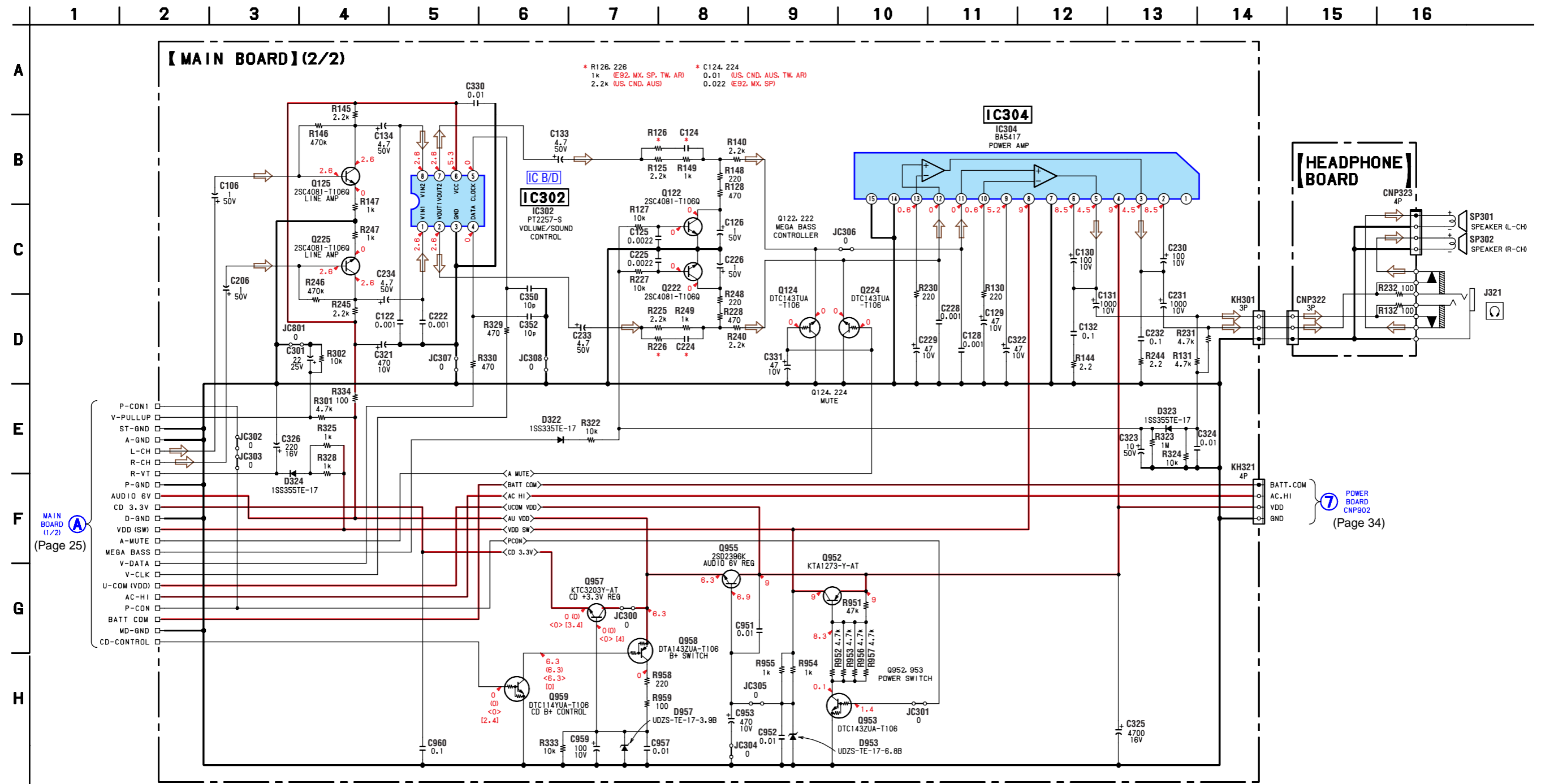
- **Waveforms**



- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.

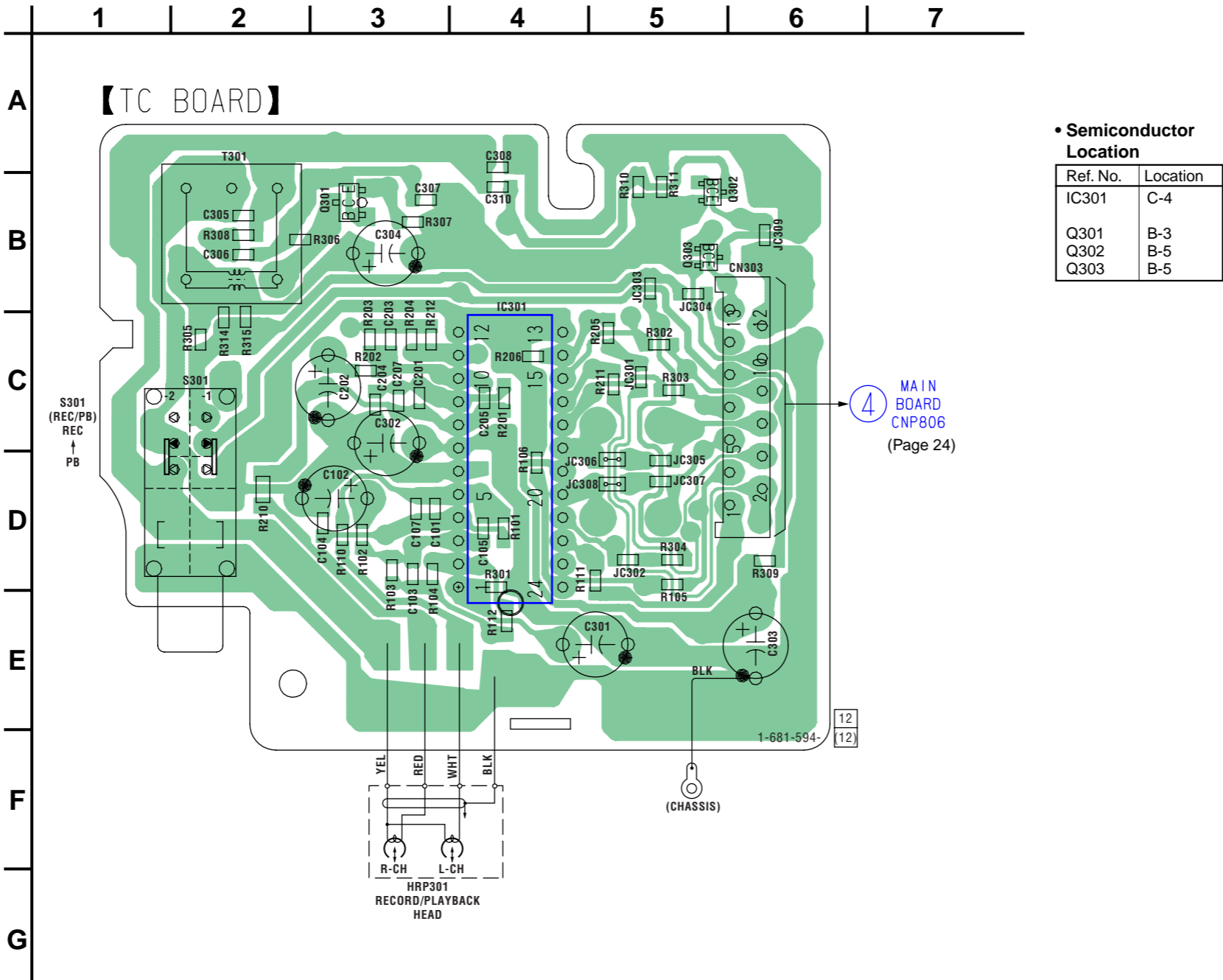
no mark : FM
 () : PB
 < > : REC
 [] : CD PLAY

6-11. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 20 for Common Note on Schematic Diagrams and page 37 for IC Block Diagrams.

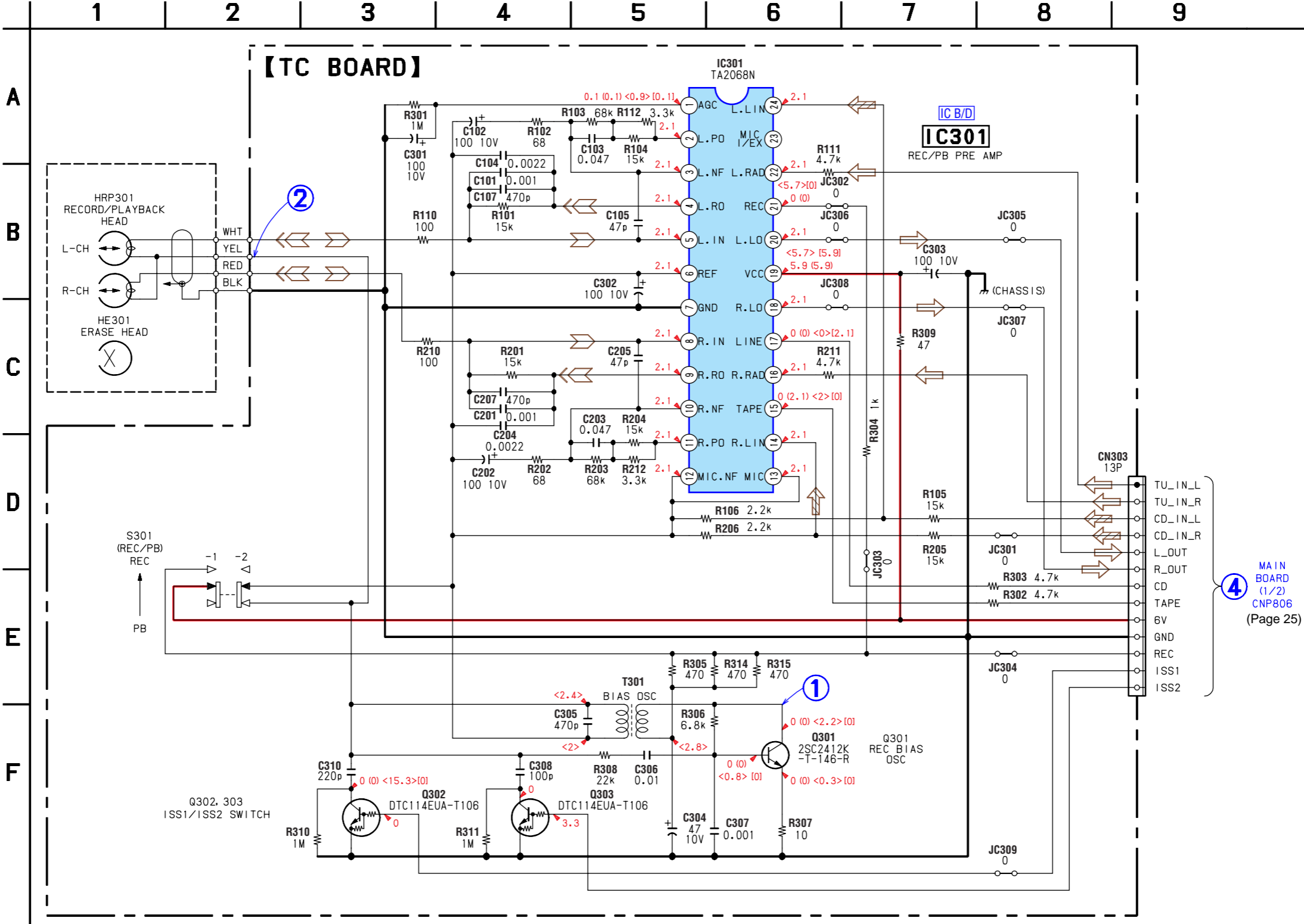


- Voltage is dc with respect to ground under no-signal (detuned) condition.
- no mark : FM
 () : PB
 < > : REC
 [] : CD PLAY

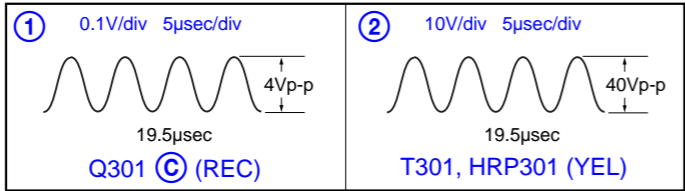
6-12. PRINTED WIRING BOARD — TC SECTION — • Refer to page 17 for Circuit Boards Location and page 20 for Common Note on Printed Wiring Boards.



6-13. SCHEMATIC DIAGRAM — TC SECTION — • Refer to page 20 for Common Note on Schematic Diagrams and page 37 for IC Block Diagrams.

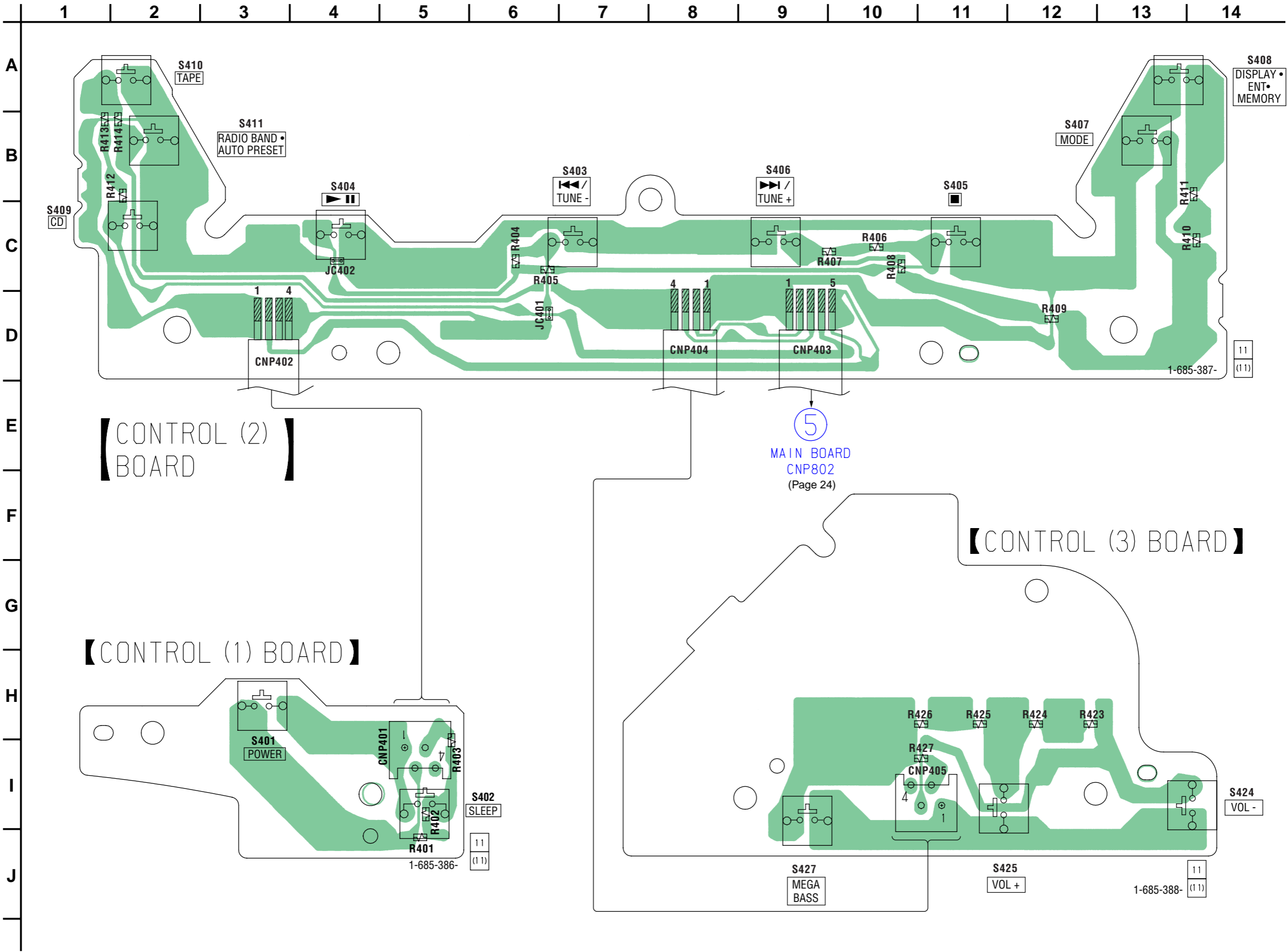


• Waveforms

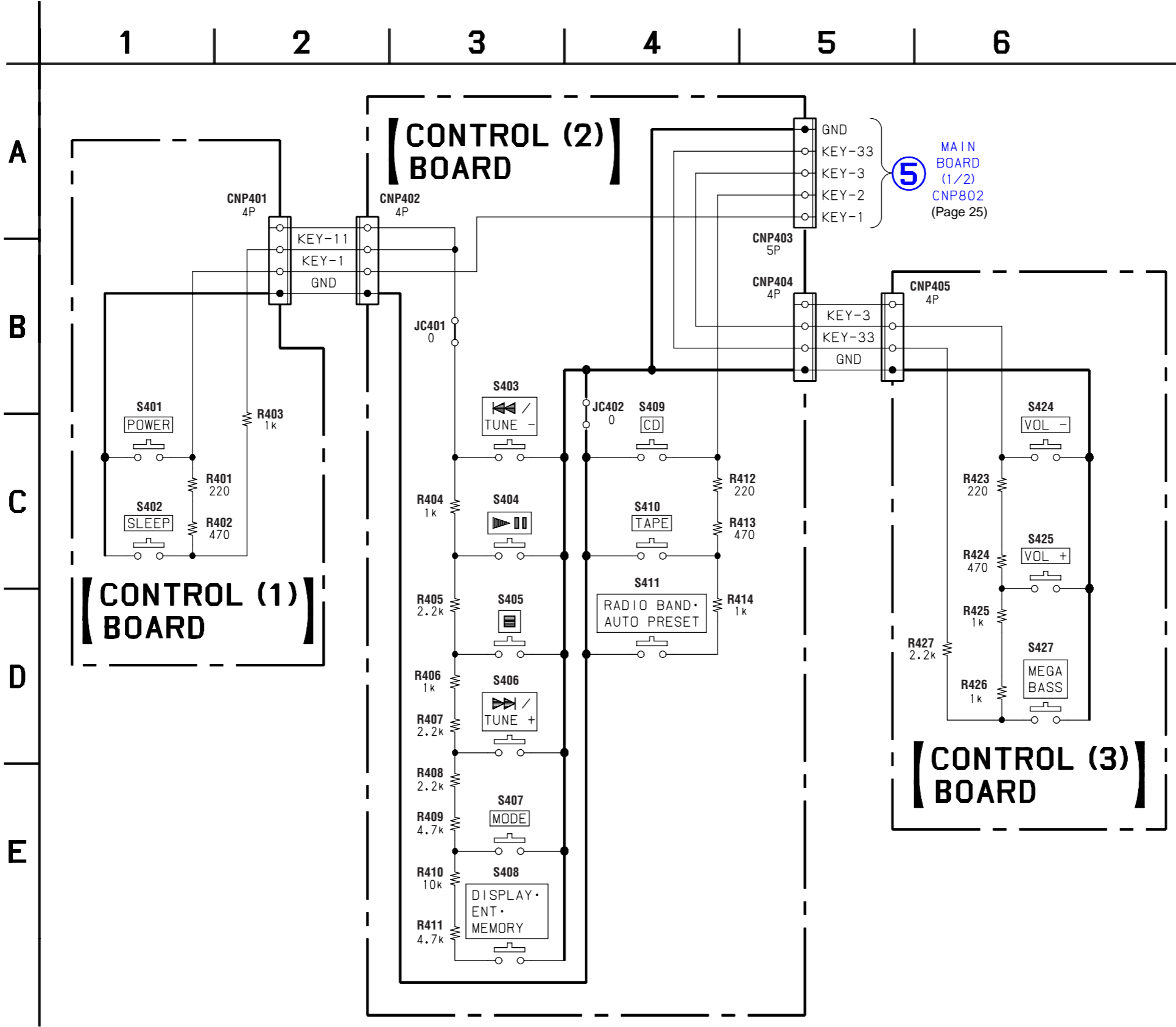


• Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
() : PB
< > : REC
[] : CD PLAY

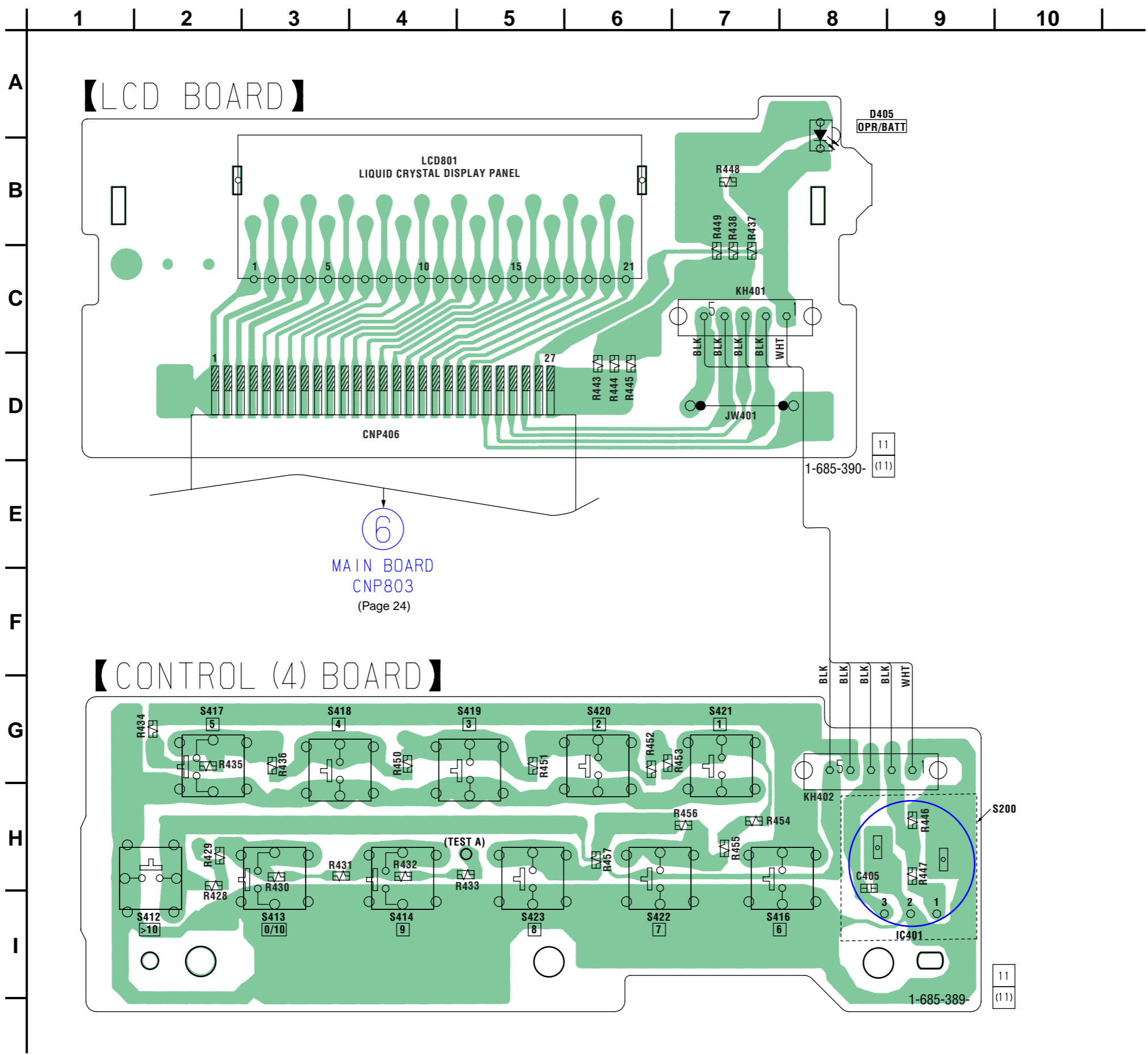
6-14. PRINTED WIRING BOARDS — CONTROL SECTION — • Refer to page 17 for Circuit Boards Location and page 20 for Common Note on Printed Wiring Boards.



6-15. SCHEMATIC DIAGRAM — CONTROL SECTION — • Refer to page 20 for Common Note on Schematic Diagrams.



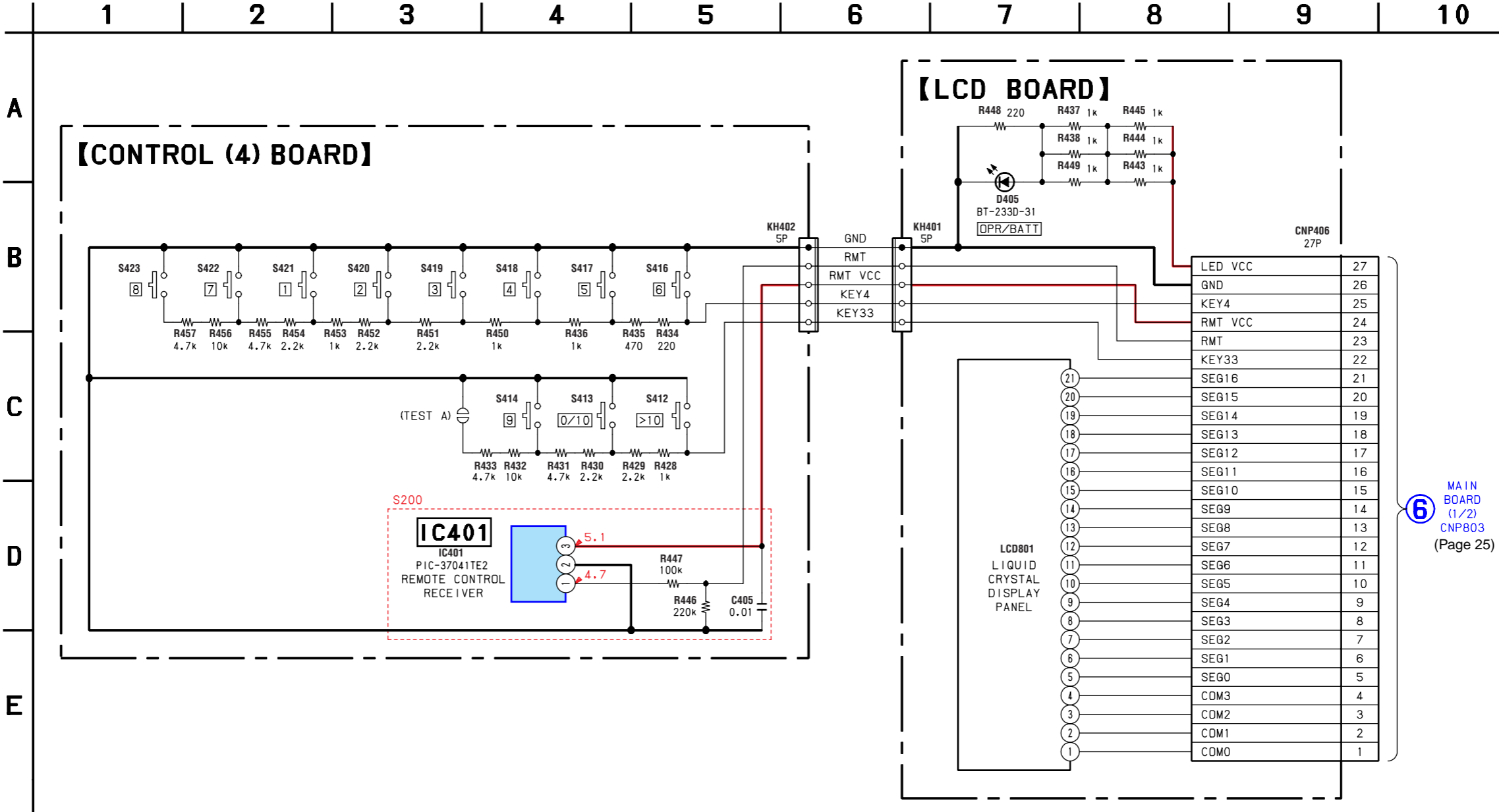
6-16. PRINTED WIRING BOARDS — DISPLAY SECTION — • Refer to page 17 for Circuit Boards Location and page 20 for Common Note on Printed Wiring Boards.



• Semiconductor Location

Ref. No.	Location
D405	A-8
IC401	H-9

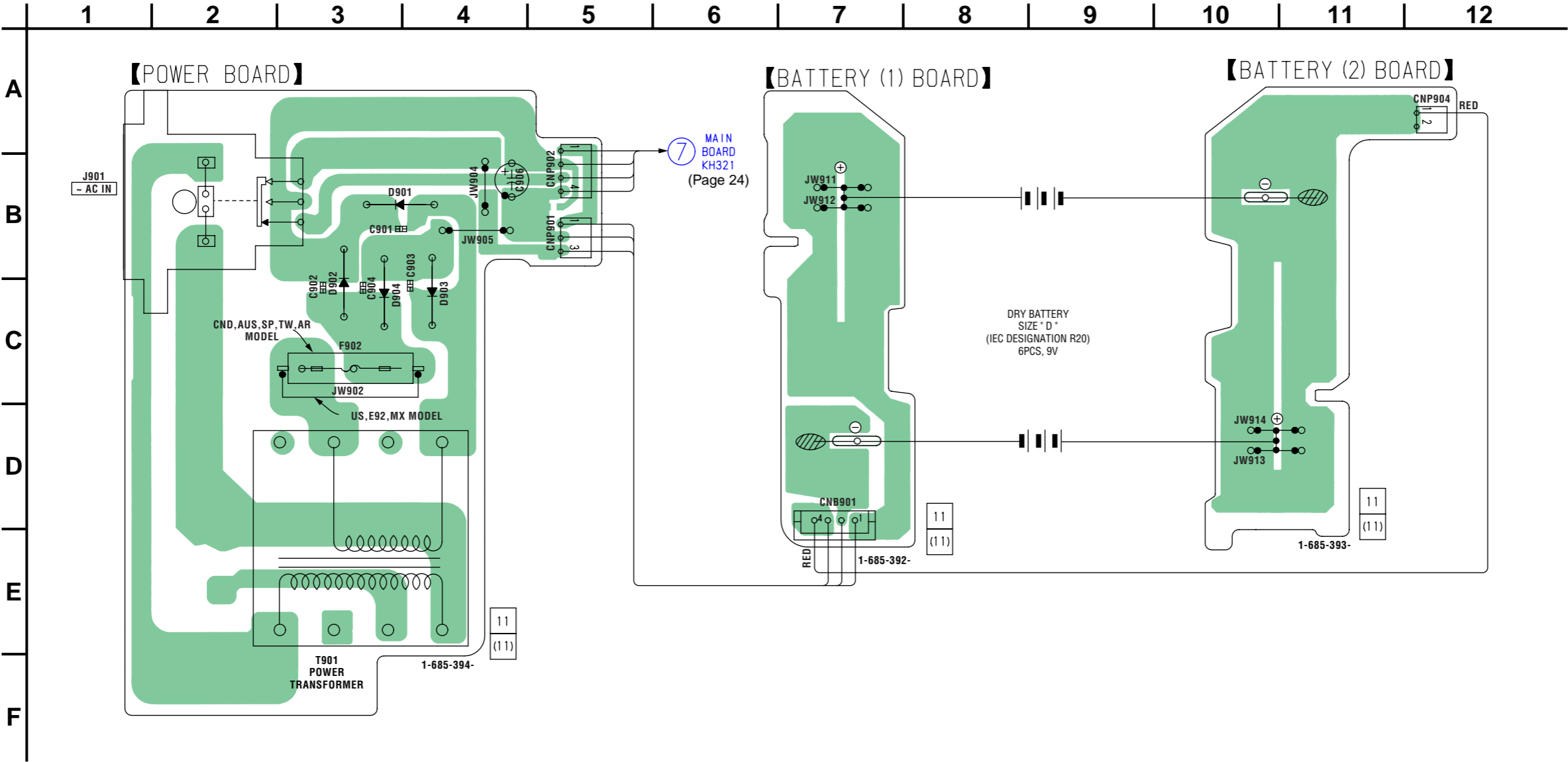
6-17. SCHEMATIC DIAGRAM — DISPLAY SECTION — • Refer to page 20 for Common Note on Schematic Diagrams.



6 MAIN BOARD (1/2) CNP803 (Page 25)

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

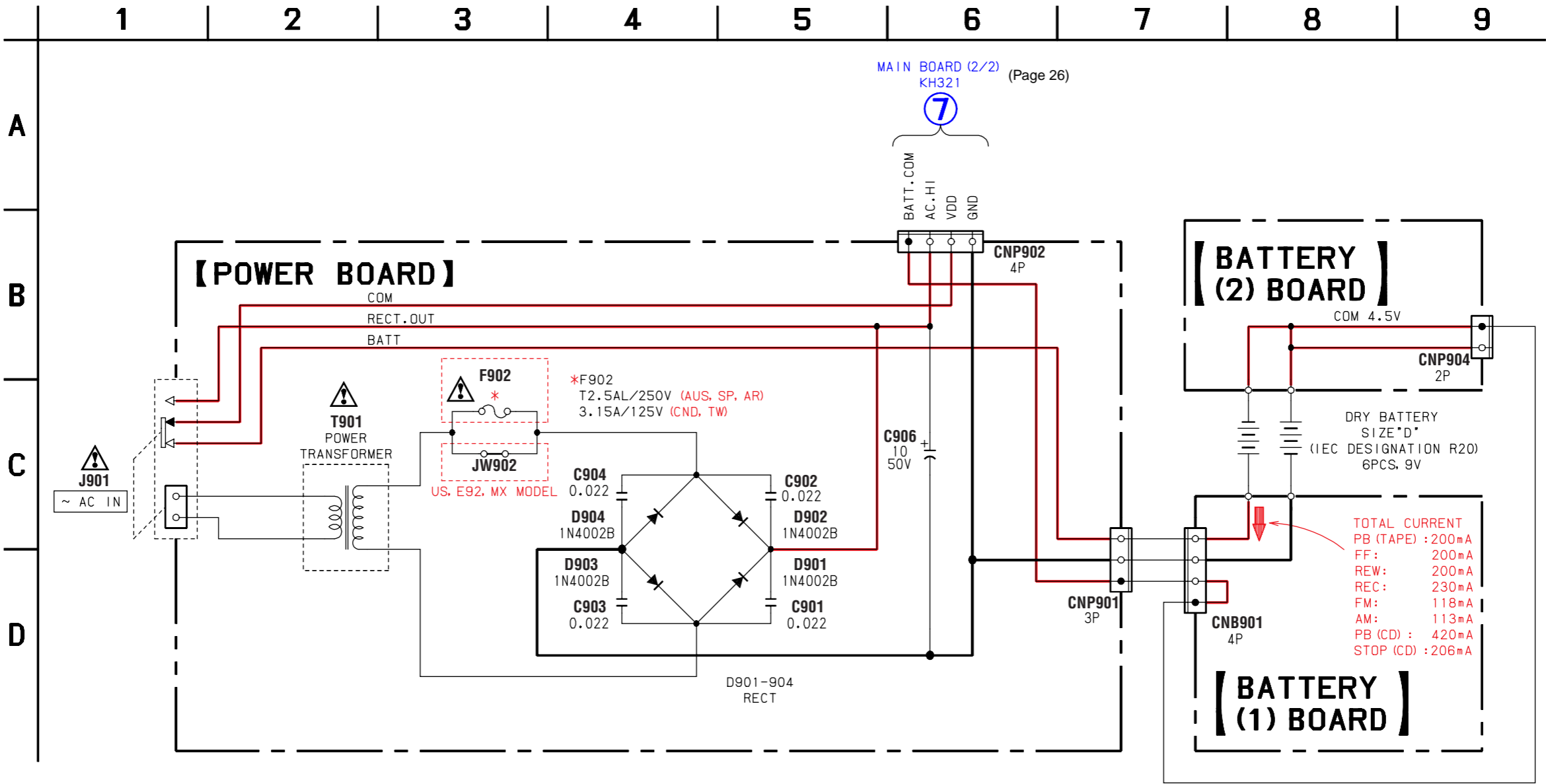
6-18. PRINTED WIRING BOARDS — POWER SUPPLY SECTION — • Refer to page 17 for Circuit Boards Location and page 20 for Common Note on Printed Wiring Boards.



• Semiconductor Location

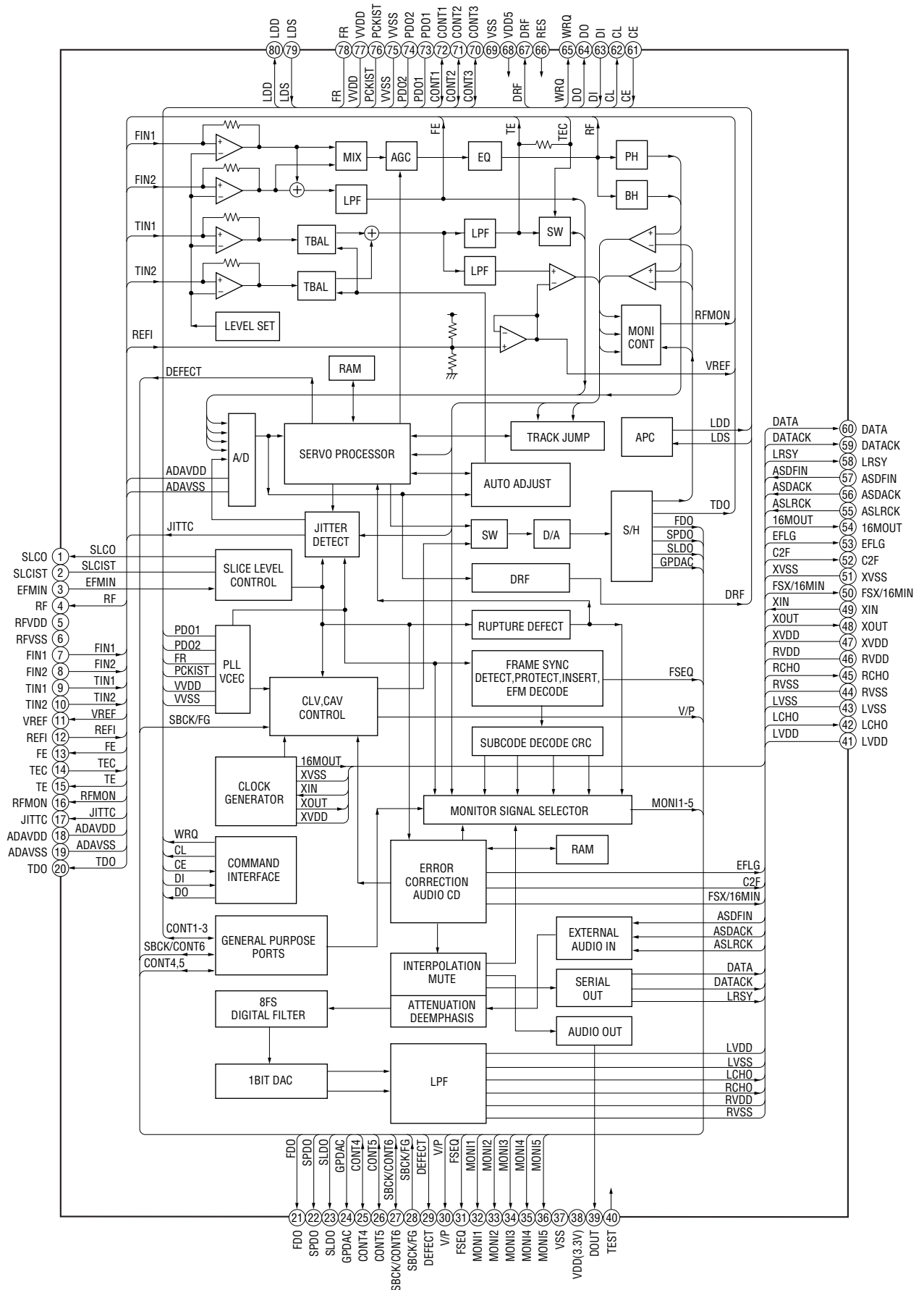
Ref. No.	Location
D901	B-3
D902	B-3
D903	C-4
D904	C-3

6-19. SCHEMATIC DIAGRAM — POWER SUPPLY SECTION — • Refer to page 20 for Common Note on Schematic Diagrams.

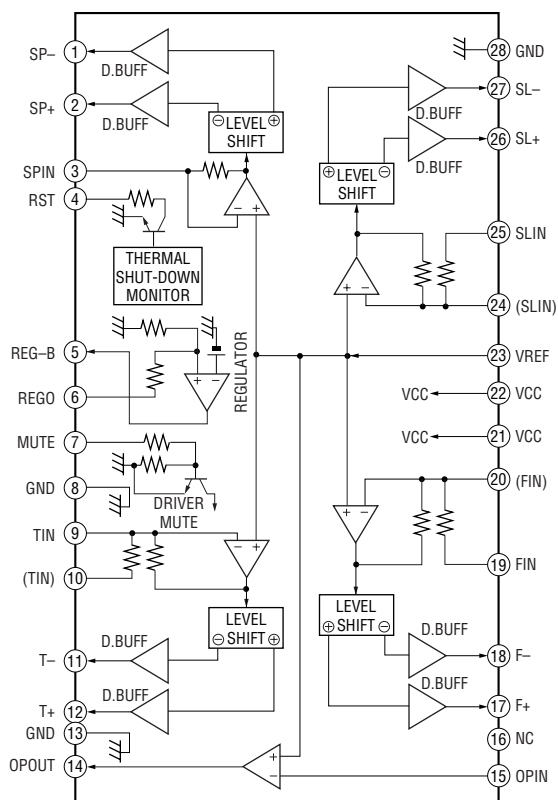


6-20. IC BLOCK DIAGRAMS

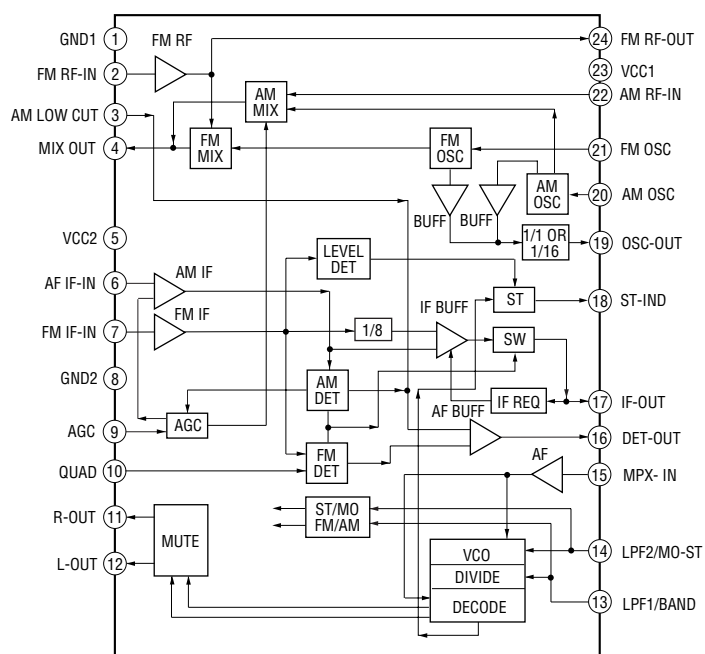
IC701 LC78646E-E (CD Board)



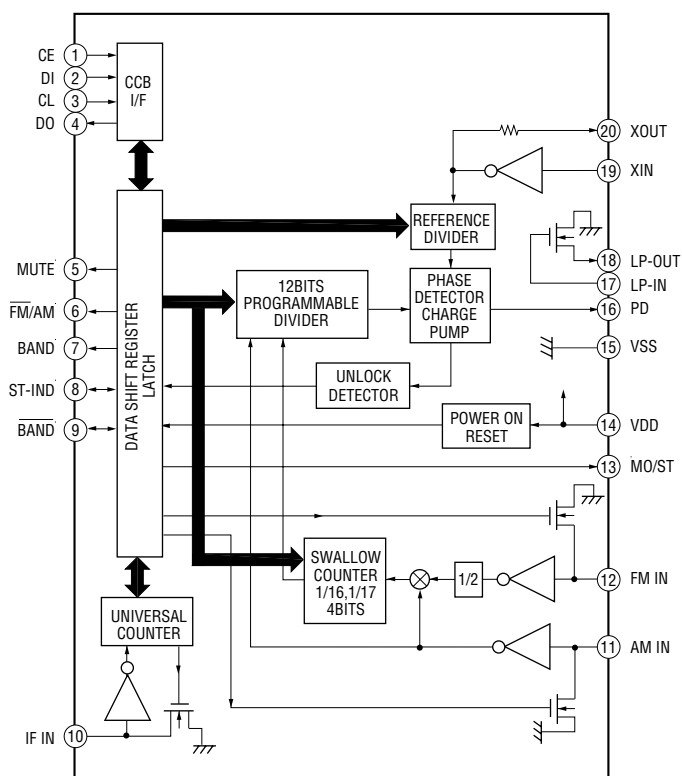
IC702 BA5826FP-E2 (CD Board)

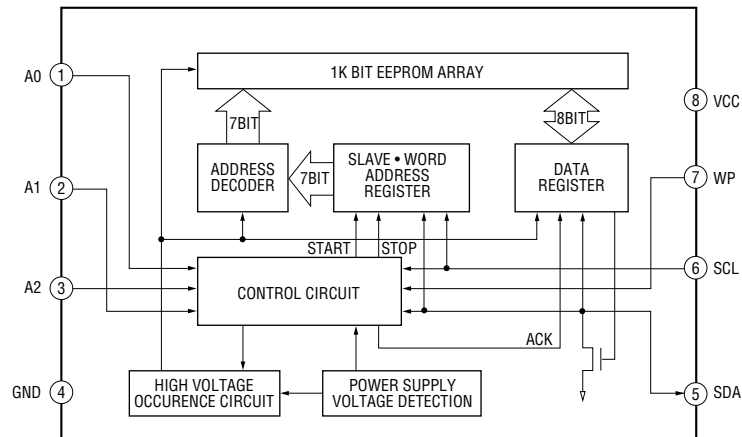
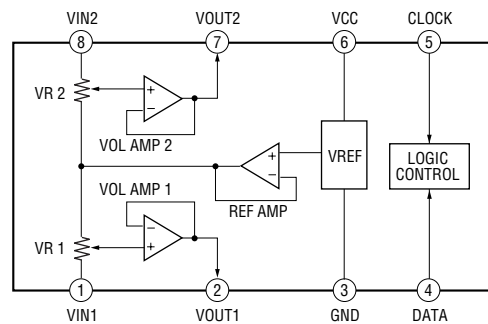
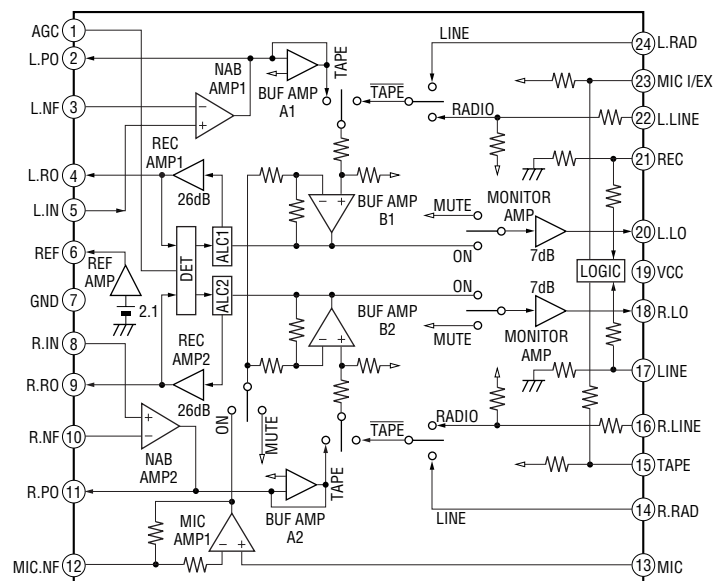


IC1 TA2149BN (TUNER Board)



IC2 LC72137M-TLM (TUNER Board)



IC803 CAT24WC02JI-1.8-TE13 (MAIN Board)**IC302 PT2257-S (MAIN Board)****IC301 TA2068N (TC Board)**

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.
- Abbreviation
CND : Canadian model
E92 : AC 120V area in E model
MX : Mexican model
TW : Taiwan model
AUS : Australian model
SP : Singapore model
AR : Argentine model


- Color Indication of Appearance Parts
Example :

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

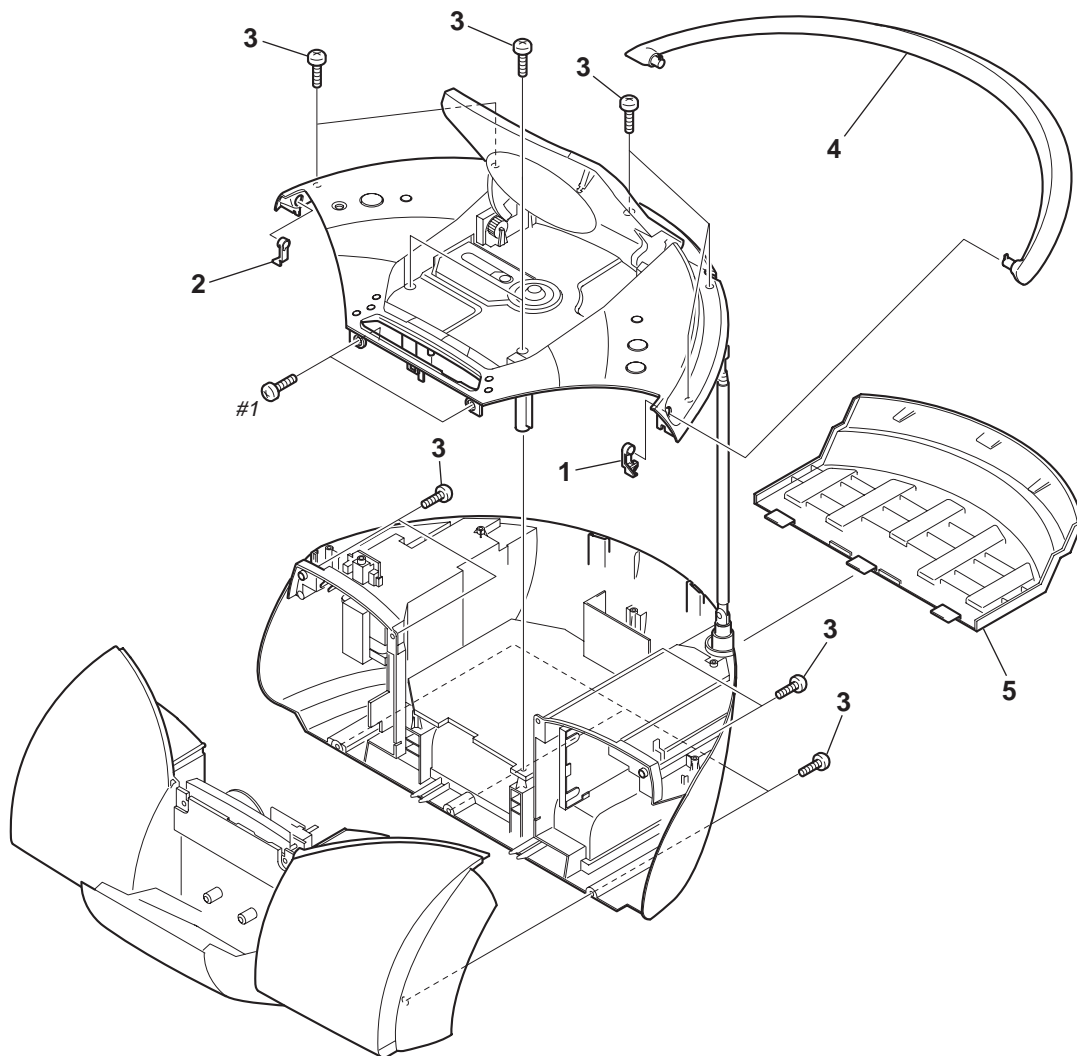
↑
 Parts Color

↑
 Cabinet's Color
- Accessories are given in the last of this parts list.

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

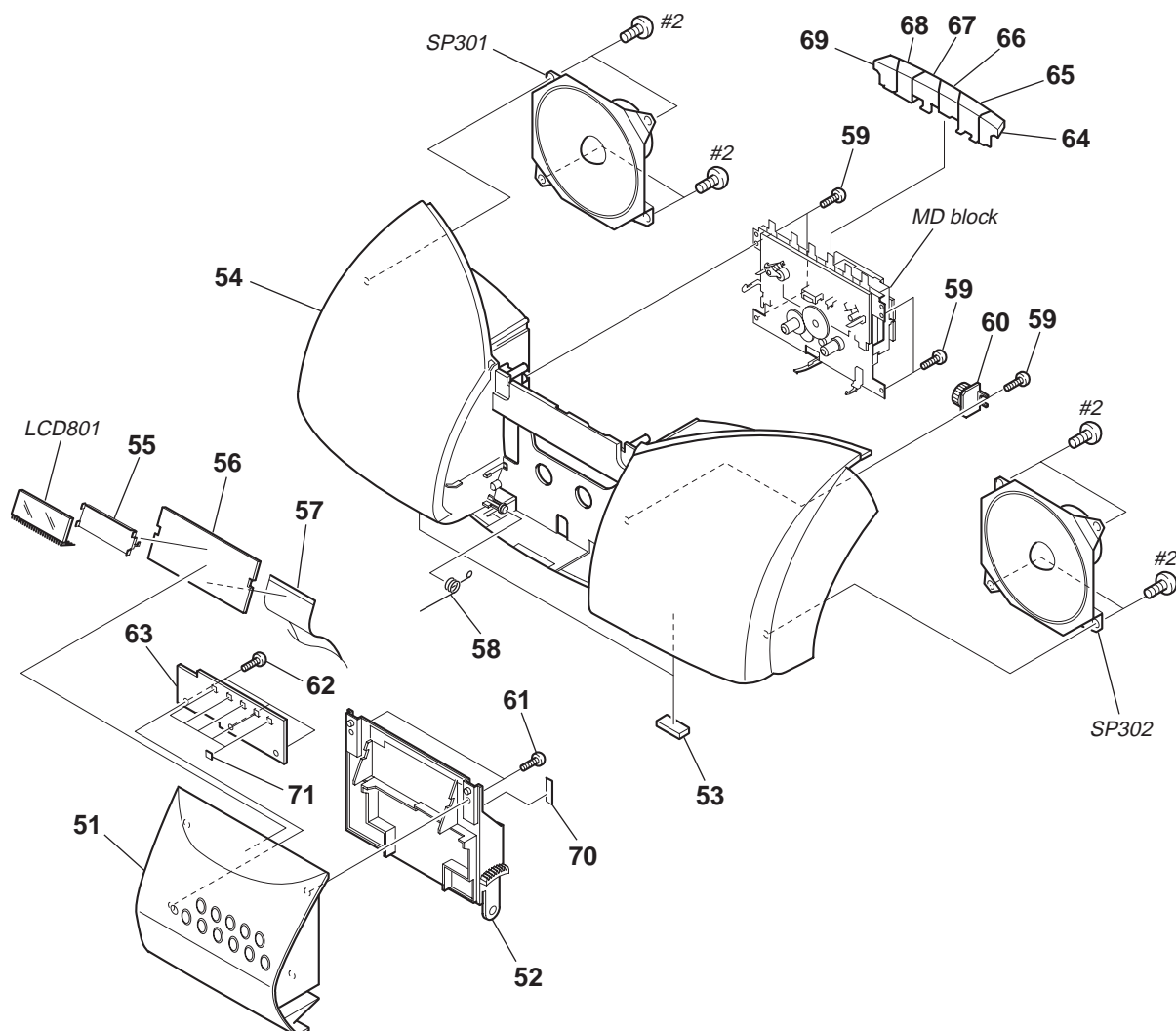
Les composants identifiés par une
marque  sont critiques pour
la sécurité.
Ne les remplacer que par une pièce
portant le numéro spécifié.

7-1. MAIN SECTION

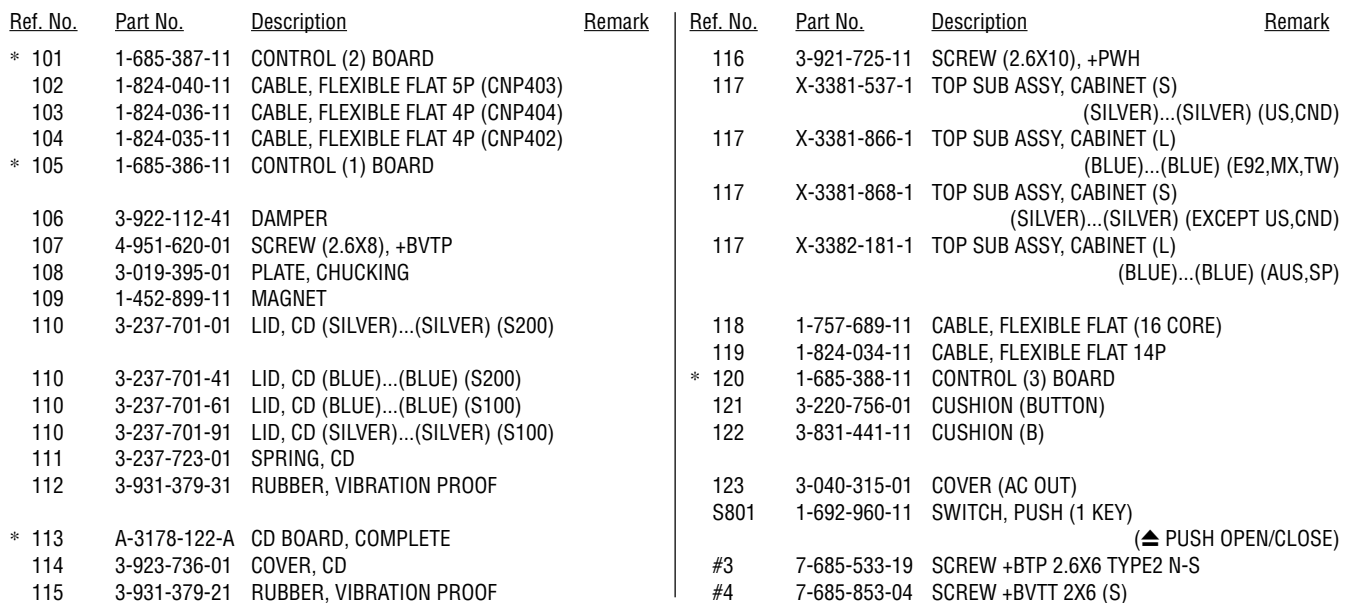


<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
1	3-237-727-01	PLATE (R) (SILVER)...(SILVER)		4	3-237-700-01	HANDLE (SILVER)...(SILVER)	
1	3-237-727-31	PLATE (R) (BLUE)...(BLUE)		4	3-237-700-31	HANDLE (BLUE)...(BLUE)	
2	3-237-726-01	PLATE (L) (SILVER)...(SILVER)		5	3-237-699-01	LID, BATTERY (SILVER)...(SILVER)	
2	3-237-726-31	PLATE (L) (BLUE)...(BLUE)		5	3-237-699-31	LID, BATTERY (BLUE)...(BLUE)	
3	4-951-620-81	SCREW (2.6)		#1	7-685-535-19	SCREW +BTP 2.6X10 TYPE2 N-S	

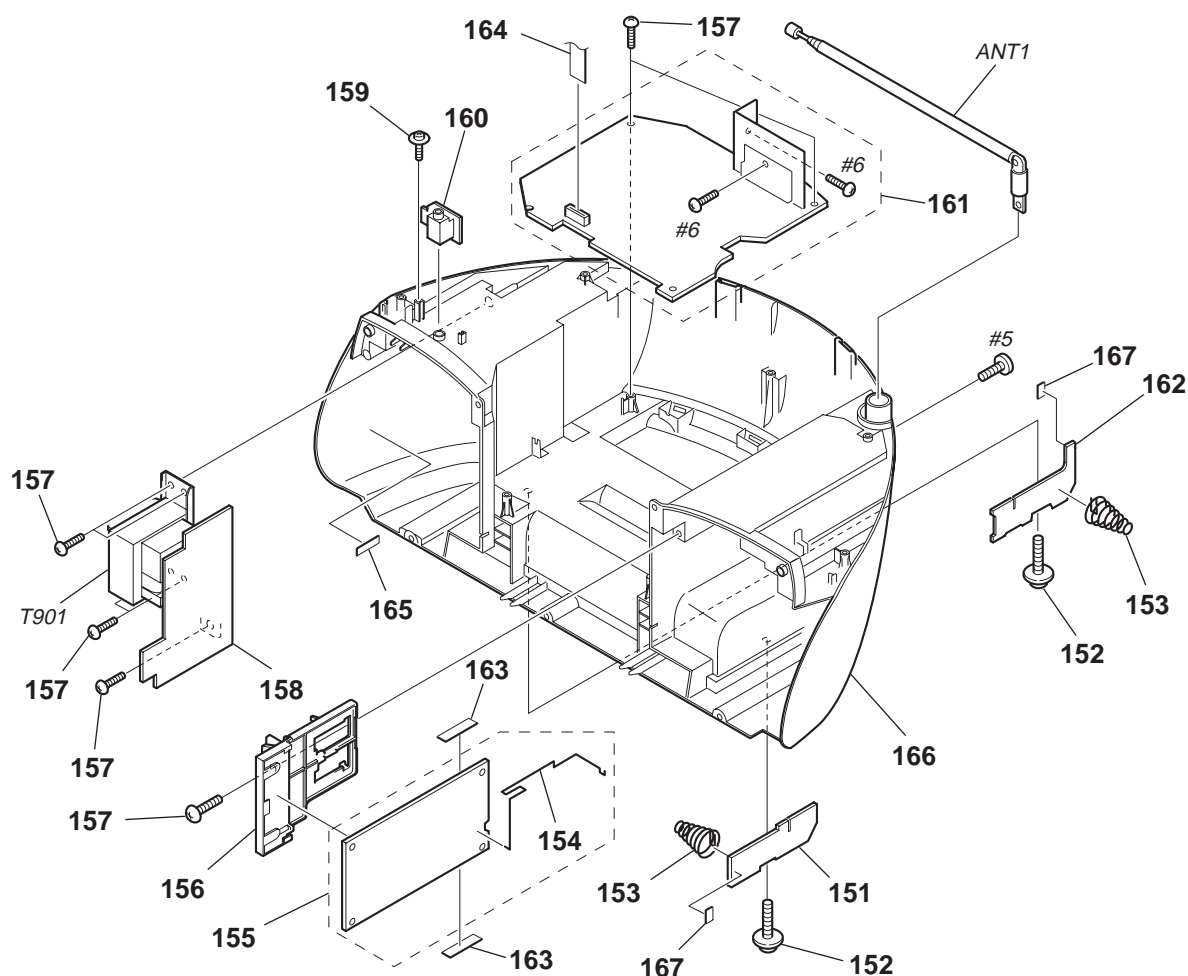
7-2. CABINET FRONT SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3381-543-1	DOOR SUB ASSY, CASSETTE (S) (SILVER)...(SILVER) (S200)		61	4-951-620-31	SCREW (2.6), +BVTP	
51	X-3381-864-1	DOOR SUB ASSY, CASSETTE (L) (BLUE)...(BLUE) (S200)		62	4-951-620-01	SCREW (2.6X8), +BVTP	
51	X-3381-995-1	DOOR SUB ASSY, CASSETTE (S) (SILVER)...(SILVER) (S100)		* 63	1-685-389-11	CONTROL (4) BOARD	
51	X-3382-180-1	DOOR SUB ASSY, CASSETTE (L) (BLUE)...(BLUE) (S100)		64	3-237-707-01	BUTTON, REC (SILVER)...(SILVER)	
52	3-237-694-01	HOLDER, CASSETTE (SILVER)...(SILVER)		64	3-237-707-21	BUTTON, REC (BLUE)...(BLUE)	
52	3-237-694-41	HOLDER, CASSETTE (BLUE)...(BLUE)		65	3-237-706-01	BUTTON, PLAY (SILVER)...(SILVER)	
53	3-040-916-01	FOOT (FRONT), RUBBER		65	3-237-706-21	BUTTON, PLAY (BLUE)...(BLUE)	
54	X-3381-540-1	FRONT SUB ASSY, CABINET (S) (SILVER)...(SILVER) (US,CND)		66	3-237-704-01	BUTTON, REW (SILVER)...(SILVER)	
54	X-3381-865-1	FRONT SUB ASSY, CABINET (S) (SILVER)...(SILVER) (EXCEPT US,CND)		66	3-237-704-21	BUTTON, REW (BLUE)...(BLUE)	
54	X-3381-867-1	FRONT SUB ASSY, CABINET (L) (BLUE)...(BLUE) (E92,AUS,MX,SP,TW)		67	3-237-705-01	BUTTON, FF (SILVER)...(SILVER)	
55	3-237-717-01	HOLDER, LCD		67	3-237-705-21	BUTTON, FF (BLUE)...(BLUE)	
* 56	1-685-390-11	LCD BOARD		68	3-237-703-01	BUTTON, S/E (SILVER)...(SILVER)	
57	1-824-037-11	CABLE, FLEXIBLE FLAT 27P (CNP406)		68	3-237-703-21	BUTTON, S/E (BLUE)...(BLUE)	
58	3-237-725-01	SPRING, CASSETTE		69	3-237-702-01	BUTTON, PAUSE (SILVER)...(SILVER)	
59	4-951-620-11	SCREW (2.6X10), +BVTP		69	3-237-702-21	BUTTON, PAUSE (BLUE)...(BLUE)	
60	3-047-468-11	DAMPER		70	3-243-185-01	CUSHION (10X2.5XT0.8)	
				71	3-831-441-11	CUSHION (B)	
				LCD801	1-804-550-11	DISPLAY PANEL, LIQUID CRYSTAL	
				SP301	1-825-031-11	SPEAKER (10cm) (WOOFER) (L-CH)	
				SP302	1-825-031-11	SPEAKER (10cm) (WOOFER) (R-CH)	
				#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	



7-4. CABINET REAR SECTION

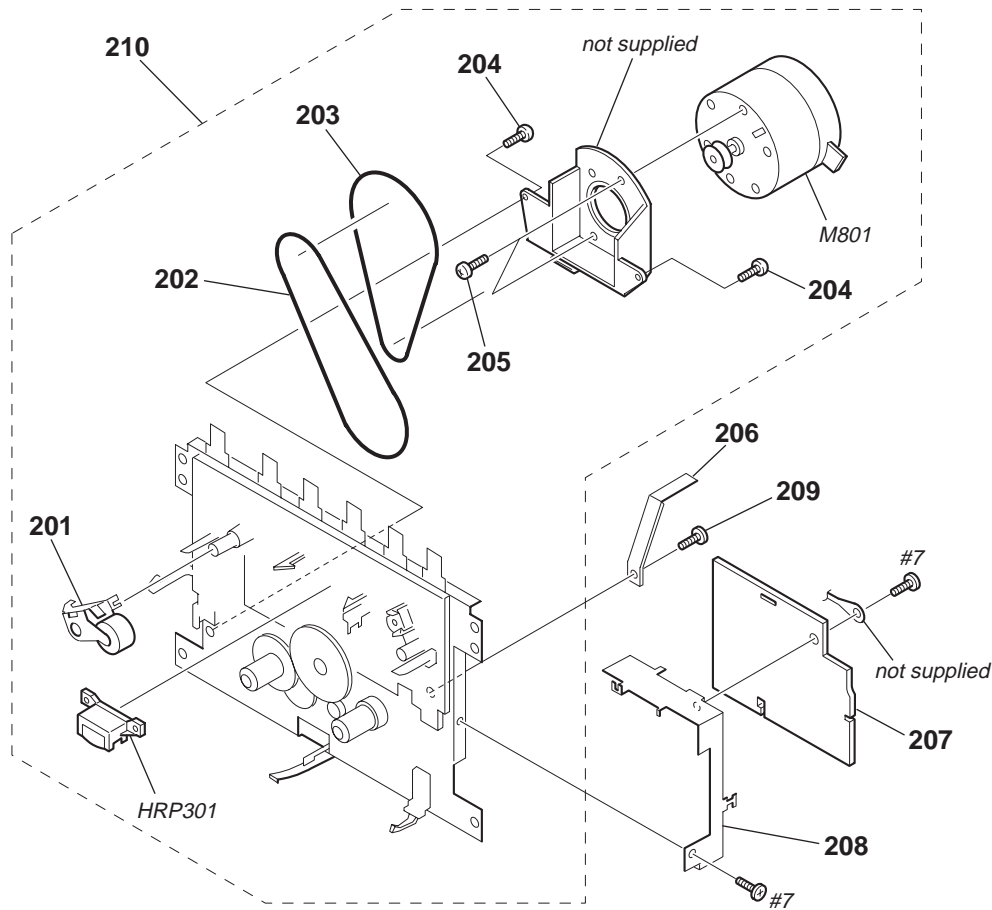


The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

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

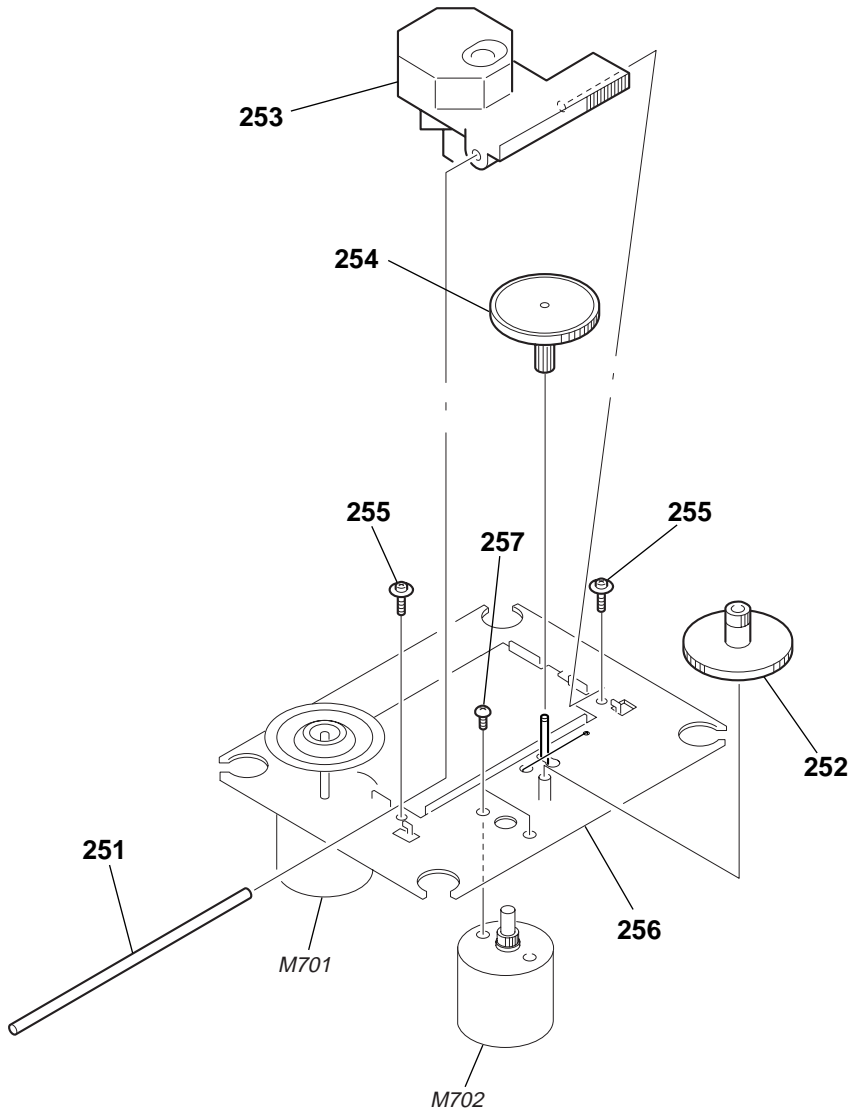
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 151	1-685-392-11	BATTERY (1) BOARD		163	3-831-441-99	SPACER	
152	4-960-167-01	SCREW (3X8) (DIA.10), +WH		164	1-824-031-11	CABLE, FLEXIBLE FLAT 13P	
153	3-240-561-01	TERMINAL (-), BATTERY		* 165	3-703-044-26	LABEL, CAUTION (CND)	
154	3-237-724-01	TERMINAL, ANTENNA (CNP2)		166	3-237-697-01	REAR, CABINET (SILVER)...(SILVER) (US,CND)	
* 155	A-3323-778-A	TUNER BOARD, COMPLETE (US,CND,E92,MX)		166	3-237-697-41	REAR, CABINET (SILVER)...(SILVER) (E92,MX,TW)	
* 155	A-3323-815-A	TUNER BOARD, COMPLETE (AUS,SP,TW,AR)		166	3-237-697-81	REAR, CABINET (SILVER)...(SILVER) (S100)	
156	3-237-716-01	CHASSIS, TU		166	3-237-697-91	REAR, CABINET (BLUE)...(BLUE) (E92,MX,TW)	
157	4-951-620-11	SCREW (2.6X10), +BVTP		166	3-240-597-21	REAR, CABINET (BLUE)...(BLUE) (SP,AUS)	
* 158	1-685-394-11	POWER BOARD		167	3-018-963-01	CUSHION (BATTERY CASE LID)	
159	3-921-725-11	SCREW (2.6X10), +PWH		ANT1	1-754-241-11	ANTENNA, TELESCOPIC (FM)	
* 160	1-685-391-11	HEADPHONE BOARD		Δ T901	1-435-917-11	TRANSFORMER, POWER (US,CND)	
* 161	A-3178-089-A	MAIN BOARD, COMPLETE (US,CND)		Δ T901	1-435-918-11	TRANSFORMER, POWER (AUS,SP,AR)	
* 161	A-3178-510-A	MAIN BOARD, COMPLETE (E92,MX)		Δ T901	1-437-351-11	TRANSFORMER, POWER (TW)	
* 161	A-3323-816-A	MAIN BOARD, COMPLETE (SP,AR)		Δ T901	1-437-540-11	TRANSFORMER, POWER (E92,MX)	
* 161	A-3323-957-A	MAIN BOARD, COMPLETE (TW)		#5	7-682-548-04	SCREW +B 3X8	
* 161	A-3323-965-A	MAIN BOARD, COMPLETE (AUS)		#6	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S	
* 162	1-685-393-11	BATTERY (2) BOARD					

7-5. TAPE MECHANISM SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-244-086-01	ARM ASSY, PINCH ROLLER		208	3-237-719-01	CHASSIS, TC	
202	3-244-079-01	BELT (B), SUB		209	3-030-741-01	SCREW (M2X2)	
203	3-244-080-01	BELT (B), MAIN		210	A-3013-956-A	MF-S200	
204	3-244-083-01	SCREW BIND DT M2X6		HRP301	3-244-085-01	HEAD, R/P (REC/PB)	
205	3-244-084-01	SCREW PAN M2.6X4.5		M801	3-244-082-01	MOTOR ASSY (CAPSTAN/REEL)	
206	3-237-718-01	LEVER, REC		#7	7-685-851-04	SCREW +BVTT 2X4 (S)	
* 207	A-3323-806-A	TC BOARD, COMPLETE					

7-6. CD MECHANISM SECTION
(KSM-213RDP)



The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
--	--

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	2-626-908-01	SHAFT, SLED		256	X-2162-707-1	CHASSIS ASSY (RDP) (RP), MOTOR (SPINDLE) (including M701)	
* 252	2-647-408-02	GEAR (B)		257	3-713-786-51	SCREW (M2X3)	
\triangle 253	8-820-161-02	PICK-UP, OPTICAL KSS-213R/C2RP		M702	X-2162-712-1	GEAR ASSY (R) (RP), MOTOR (SLED)	
* 254	2-169-065-01	GEAR (A)					
255	2-169-388-01	TAPPING (M2), +PWB					

SECTION 8
ELECTRICAL PARTS LIST

BATTERY (1)

BATTERY (2)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

• Abbreviation
CND : Canadian model E92 : AC 120V area in E model
MX : Mexican model TW : Taiwan model
AUS : Australian model SP : Singapore model AR : Argentina model
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• SEMICONDUCTORS
In each case, u : μ, for example:
uA.. : μA.. uPA.. : μPA..
uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..

• CAPACITORS
uF : μF

• COILS
uH : μH

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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	1-685-392-11	BATTERY (1) BOARD *****		C735	1-126-916-11	ELECT 1000uF 20%	6.3V
	3-240-561-01	TERMINAL (–), BATTERY *****		C736	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
*	1-685-393-11	BATTERY (2) BOARD *****		C738	1-164-156-11	CERAMIC CHIP 0.1uF	25V
	3-240-561-01	TERMINAL (–), BATTERY < CONNECTOR >		C739	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* CNP904	1-815-550-11	PIN, CONNECTOR (PC BOARD) 2P *****		C740	1-126-935-11	ELECT 470uF 20%	10V
*	A-3178-122-A	CD BOARD, COMPLETE ***** < CAPACITOR >		C741	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C701	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C742	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C702	1-126-947-11	ELECT 47uF 20%	10V	C743	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C703	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C744	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C704	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	C745	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C705	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V	C746	1-104-665-11	ELECT 100uF 20%	10V
C706	1-126-960-11	ELECT 1uF 20%	50V	C747	1-104-665-11	ELECT 100uF 20%	10V
C707	1-115-156-11	CERAMIC CHIP 1uF	10V	C750	1-104-665-11	ELECT 100uF 20%	10V
C708	1-162-927-11	CERAMIC CHIP 100PF 5%	50V	C751	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C709	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C754	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C711	1-162-974-11	CERAMIC CHIP 0.01uF	50V	C755	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C716	1-162-974-11	CERAMIC CHIP 0.01uF	50V			< CONNECTOR >	
C717	1-163-021-11	CERAMIC CHIP 0.01uF 10%	50V	CNP701	1-779-466-11	CONNECTOR, FFC/FPC 16P	
C720	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	* CNP702	1-784-736-11	CONNECTOR, FFC 14P	
C721	1-162-919-11	CERAMIC CHIP 22PF 5%	50V			< FERRITE BEAD >	
C722	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	FB701	1-469-701-21	FERRITE, EMI (SMD)	
C723	1-162-974-11	CERAMIC CHIP 0.01uF	50V			< IC >	
C724	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	IC701	6-701-796-01	IC LC78646E-E	
C725	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	IC702	6-701-787-11	IC BA5826FP-E2	
C726	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V			< JUMPER RESISTOR >	
C727	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	JC701	1-216-864-11	METAL CHIP 0 5%	1/10W
C728	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V	JC702	1-216-864-11	METAL CHIP 0 5%	1/10W
C729	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V	JC703	1-216-864-11	METAL CHIP 0 5%	1/10W
C730	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	JC704	1-216-821-11	METAL CHIP 1K 5%	1/10W
C731	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V			< FERRITE BEAD >	
C732	1-104-665-11	ELECT 100uF 20%	10V	L706	1-414-445-11	FERRITE, EMI (SMD)	
C733	1-104-665-11	ELECT 100uF 20%	10V			< TRANSISTOR >	
C734	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V	Q701	8-729-054-57	TRANSISTOR KTN2907AS-RTK	
						< RESISTOR >	
				R701	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R702	1-216-835-11	METAL CHIP 15K 5%	1/10W

CD

CONTROL (1)

CONTROL (2)

CONTROL (3)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R703	1-216-835-11	METAL CHIP	15K 5% 1/10W	S402	1-786-050-21	SWITCH, KEYBOARD (SLEEP)	
R704	1-216-835-11	METAL CHIP	15K 5% 1/10W	*****			
R705	1-216-835-11	METAL CHIP	15K 5% 1/10W	*	1-685-387-11	CONTROL (2) BOARD	
R706	1-216-841-11	METAL CHIP	47K 5% 1/10W		*****		
R707	1-216-797-11	METAL CHIP	10 5% 1/10W				
R708	1-216-833-11	METAL CHIP	10K 5% 1/10W		1-824-035-11	CABLE, FLEXIBLE FLAT 4P (CNP402)	
R709	1-216-837-11	METAL CHIP	22K 5% 1/10W		1-824-036-11	CABLE, FLEXIBLE FLAT 4P (CNP404)	
R710	1-216-829-11	METAL CHIP	4.7K 5% 1/10W		1-824-040-11	CABLE, FLEXIBLE FLAT 5P (CNP403)	
R711	1-216-815-11	METAL CHIP	330 5% 1/10W				
R712	1-216-809-11	METAL CHIP	100 5% 1/10W			< JUMPER RESISTOR >	
R714	1-216-811-11	METAL CHIP	150 5% 1/10W	JC401	1-216-864-11	METAL CHIP	0 5% 1/10W
R715	1-216-811-11	METAL CHIP	150 5% 1/10W	JC402	1-216-864-11	METAL CHIP	0 5% 1/10W
R716	1-216-821-11	METAL CHIP	1K 5% 1/10W			< RESISTOR >	
R717	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R718	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R719	1-216-809-11	METAL CHIP	100 5% 1/10W	R404	1-216-821-11	METAL CHIP	1K 5% 1/10W
R720	1-216-809-11	METAL CHIP	100 5% 1/10W	R405	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R721	1-216-821-11	METAL CHIP	1K 5% 1/10W	R406	1-216-821-11	METAL CHIP	1K 5% 1/10W
R722	1-216-809-11	METAL CHIP	100 5% 1/10W	R407	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R723	1-216-809-11	METAL CHIP	100 5% 1/10W	R408	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R724	1-216-841-11	METAL CHIP	47K 5% 1/10W	R409	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R725	1-216-819-11	METAL CHIP	680 5% 1/10W	R410	1-216-833-11	METAL CHIP	10K 5% 1/10W
R726	1-216-819-11	METAL CHIP	680 5% 1/10W	R411	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R727	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R412	1-216-813-11	METAL CHIP	220 5% 1/10W
R728	1-216-833-11	METAL CHIP	10K 5% 1/10W	R413	1-216-817-11	METAL CHIP	470 5% 1/10W
R729	1-216-813-11	METAL CHIP	220 5% 1/10W	R414	1-216-821-11	METAL CHIP	1K 5% 1/10W
R730	1-216-821-11	METAL CHIP	1K 5% 1/10W			< SWITCH >	
R731	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	S403	1-786-050-21	SWITCH, KEYBOARD (◀◀/TUNE -)	
R732	1-216-841-11	METAL CHIP	47K 5% 1/10W	S404	1-786-050-21	SWITCH, KEYBOARD (▶▶)	
R741	1-218-867-11	RES-CHIP	6.8K 5% 1/10W	S405	1-786-050-21	SWITCH, KEYBOARD (■)	
R743	1-218-867-11	RES-CHIP	6.8K 5% 1/10W	S406	1-786-050-21	SWITCH, KEYBOARD (▶▶/TUNE +)	
R744	1-216-845-11	METAL CHIP	100K 5% 1/10W	S407	1-786-050-21	SWITCH, KEYBOARD (MODE)	
		< SWITCH >		S408	1-786-050-21	SWITCH, KEYBOARD (DISPLAY•ENT•MEMORY)	
S701	1-571-936-11	SWITCH, LEAF (LIMIT)		S409	1-786-050-21	SWITCH, KEYBOARD (CD)	
		< VIBRATOR >		S410	1-786-050-21	SWITCH, KEYBOARD (TAPE)	
				S411	1-786-050-21	SWITCH, KEYBOARD (RADIO BAND•	
						AUTO PRESET)	

X701	1-781-801-21	VIBRATOR, CERAMIC (16.93MHz)		*	1-685-388-11	CONTROL (3) BOARD	
*****					*****		
*	1-685-386-11	CONTROL (1) BOARD			3-831-441-11	CUSHION (B)	
		*****				< CONNECTOR >	
	3-831-441-11	CUSHION (B)					
		< CONNECTOR >		CNP405	1-784-726-11	CONNECTOR, FFC 4P	
						< RESISTOR >	
CNP401	1-784-726-11	CONNECTOR, FFC 4P					
		< RESISTOR >		R423	1-216-813-11	METAL CHIP	220 5% 1/10W
				R424	1-216-817-11	METAL CHIP	470 5% 1/10W
R401	1-216-813-11	METAL CHIP	220 5% 1/10W	R425	1-216-821-11	METAL CHIP	1K 5% 1/10W
R402	1-216-817-11	METAL CHIP	470 5% 1/10W	R426	1-216-821-11	METAL CHIP	1K 5% 1/10W
R403	1-216-821-11	METAL CHIP	1K 5% 1/10W	R427	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
		< SWITCH >				< SWITCH >	
S401	1-786-050-21	SWITCH, KEYBOARD (POWER)		S424	1-786-050-21	SWITCH, KEYBOARD (VOL -)	

CFD-S100/S200

CONTROL (3)	CONTROL (4)	HEADPHONE	LCD	MAIN
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Ref. No.	Part No.	Description	Remark			
S425	1-786-050-21	SWITCH, KEYBOARD (VOL +)				
S427	1-786-050-21	SWITCH, KEYBOARD (MEGA BASS)				

*	1-685-389-11	CONTROL (4) BOARD	*****			
< CAPACITOR >						
C405	1-162-974-11	CERAMIC CHIP	0.01uF	50V	(S200)	
< IC >						
IC401	6-600-070-01	IC PIC-37041TE2 (S200)				
< CABLE HOLDER >						
KH402	1-824-030-11	HOLDER, CABLE 5P				
< RESISTOR >						
R428	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R429	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R430	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R431	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R432	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R433	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R434	1-216-813-11	METAL CHIP	220	5%	1/10W	
R435	1-216-817-11	METAL CHIP	470	5%	1/10W	
R436	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R446	1-216-849-11	METAL CHIP	220K	5%	1/10W	(S200)
R447	1-216-845-11	METAL CHIP	100K	5%	1/10W	(S200)
R450	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R451	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R452	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R453	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R454	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R455	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R456	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R457	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
< SWITCH >						
S412	1-786-050-21	SWITCH, KEYBOARD (>10)				
S413	1-786-050-21	SWITCH, KEYBOARD (0/10)				
S414	1-786-050-21	SWITCH, KEYBOARD (9)				
S416	1-786-050-21	SWITCH, KEYBOARD (6)				
S417	1-786-050-21	SWITCH, KEYBOARD (5)				
S418	1-786-050-21	SWITCH, KEYBOARD (4)				
S419	1-786-050-21	SWITCH, KEYBOARD (3)				
S420	1-786-050-21	SWITCH, KEYBOARD (2)				
S421	1-786-050-21	SWITCH, KEYBOARD (1)				
S422	1-786-050-21	SWITCH, KEYBOARD (7)				
S423	1-786-050-21	SWITCH, KEYBOARD (8)				

Ref. No.	Part No.	Description	Remark			
*	1-685-391-11	HEADPHONE BOARD	*****			
< CONNECTOR >						
* CNP322	1-815-444-11	PIN, CONNECTOR 3P				
CNP323	1-815-445-11	PIN, CONNECTOR 4P				
< JACK >						
J321	1-568-267-11	JACK (♂)				
< RESISTOR >						
R132	1-216-809-11	METAL CHIP	100	5%	1/10W	
R232	1-216-809-11	METAL CHIP	100	5%	1/10W	

*	1-685-390-11	LCD BOARD	*****			
	1-824-037-11	CABLE, FLEXIBLE FLAT 27P (CNP406)				
	3-237-717-01	HOLDER, LCD				
< DIODE >						
D405	6-500-198-01	LED BT-233D-31 (OPR/BATT)				
< CABLE HOLDER >						
KH401	1-824-030-11	HOLDER, CABLE 5P				
< LIQUID CRYSTAL DISPLAY >						
LCD801	1-804-550-11	DISPLAY PANEL, LIQUID CRYSTAL				
< RESISTOR >						
R437	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R438	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R443	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R444	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R445	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R448	1-216-813-11	METAL CHIP	220	5%	1/10W	
R449	1-216-821-11	METAL CHIP	1K	5%	1/10W	

*	A-3178-089-A	MAIN BOARD, COMPLETE (US,CND)				
*	A-3178-510-A	MAIN BOARD, COMPLETE (E92,MX)				
*	A-3323-816-A	MAIN BOARD, COMPLETE (SP,AR)				
*	A-3323-957-A	MAIN BOARD, COMPLETE (TW)				
*	A-3323-965-A	MAIN BOARD, COMPLETE (AUS)	*****			
	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S				
< CAPACITOR >						
C106	1-126-960-11	ELECT	1uF	20%	50V	
C122	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C124	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	(US,CND,AUS,TW,AR)
C124	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	(E92,MX,SP)
C125	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C126	1-126-960-11	ELECT	1uF	20%	50V	C818	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C128	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C819	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C129	1-126-947-11	ELECT	47uF	20%	10V	C820	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C130	1-104-665-11	ELECT	100uF	20%	10V	C821	1-115-156-11	CERAMIC CHIP	1uF		10V
C131	1-126-926-11	ELECT	1000uF	20%	10V	C822	1-126-934-11	ELECT	220uF	20%	10V
C132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C824	1-115-156-11	CERAMIC CHIP	1uF		10V
C133	1-126-963-11	ELECT	4.7uF	20%	50V	C825	1-126-964-11	ELECT	10uF	20%	50V
C134	1-126-963-11	ELECT	4.7uF	20%	50V						(S200)
C148	1-115-156-11	CERAMIC CHIP	1uF		10V	C830	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C171	1-126-964-11	ELECT	10uF	20%	50V	C831	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C206	1-126-960-11	ELECT	1uF	20%	50V	C832	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C222	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C839	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C951	1-162-974-11	CERAMIC CHIP	0.01uF		50V
				(US,CND,AUS,TW,AR)		C952	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C224	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C953	1-126-935-11	ELECT	470uF	20%	10V
				(E92,MX,SP)		C957	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C225	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C959	1-104-665-11	ELECT	100uF	20%	10V
C226	1-126-960-11	ELECT	1uF	20%	50V	C960	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C228	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V			< CONNECTOR >			
C229	1-126-947-11	ELECT	47uF	20%	10V	CNP302	1-815-445-11	PIN, CONNECTOR 4P			
C230	1-104-665-11	ELECT	100uF	20%	10V	CNP802	1-784-766-11	CONNECTOR, FFC 5P			
C231	1-126-926-11	ELECT	1000uF	20%	10V	CNP803	1-784-788-11	CONNECTOR, FFC 27P			
C232	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	CNP804	1-784-775-11	CONNECTOR, FFC 14P			
C233	1-126-963-11	ELECT	4.7uF	20%	50V	CNP806	1-784-774-11	CONNECTOR, FFC 13P			
C234	1-126-963-11	ELECT	4.7uF	20%	50V			< DIODE >			
C248	1-115-156-11	CERAMIC CHIP	1uF		10V	D322	8-719-988-61	DIODE 1SS355TE-17			
C271	1-126-964-11	ELECT	10uF	20%	50V	D323	8-719-988-61	DIODE 1SS355TE-17			
C301	1-128-551-11	ELECT	22uF	20%	25V	D324	8-719-988-61	DIODE 1SS355TE-17			
C321	1-126-935-11	ELECT	470uF	20%	10V	D801	8-719-069-54	DIODE UDZS-TE-17-5.1B (S200)			
C322	1-126-947-11	ELECT	47uF	20%	10V	D802	8-719-082-07	DIODE KDS121-RTK			
C323	1-126-964-11	ELECT	10uF	20%	50V	D804	8-719-082-07	DIODE KDS121-RTK (S200)			
C324	1-162-974-11	CERAMIC CHIP	0.01uF		50V	D807	8-719-083-93	DIODE KDS120-RTK			
C325	1-126-937-11	ELECT	4700uF	20%	16V	D953	8-719-978-33	DIODE DTZ-TT11-6.8B			
C326	1-126-934-11	ELECT	220uF	20%	16V	D957	8-719-083-58	DIODE UDZS-TE-17-3.9B			
C330	1-162-974-11	CERAMIC CHIP	0.01uF		50V			< IC >			
C331	1-126-947-11	ELECT	47uF	20%	10V	IC302	6-701-919-01	IC PT2257-S			
C350	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	IC304	8-759-426-51	IC BA5417			
C352	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	IC801	8-759-658-46	IC S-81233SGY-Z			
C800	1-164-156-11	CERAMIC CHIP	0.1uF		25V	IC802	6-801-743-01	IC uPD789477GC-A13-8BT			
C801	1-162-974-11	CERAMIC CHIP	0.01uF		50V	IC803	6-700-336-01	IC CAT24WC02JI-1.8-TE13			
C802	1-104-665-11	ELECT	100uF	20%	10V	IC804	8-759-645-87	IC PST9128-T			
C803	1-162-927-11	CERAMIC CHIP	100PF	5%	50V			< JUMPER RESISTOR >			
C804	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	JC300	1-216-864-11	METAL CHIP	0	5%	1/10W
C805	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	JC301	1-216-864-11	METAL CHIP	0	5%	1/10W
C806	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	JC302	1-216-864-11	METAL CHIP	0	5%	1/10W
C807	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	JC303	1-216-864-11	METAL CHIP	0	5%	1/10W
C808	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	JC304	1-216-864-11	METAL CHIP	0	5%	1/10W
C809	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	JC305	1-216-864-11	METAL CHIP	0	5%	1/10W
C810	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	JC306	1-216-864-11	METAL CHIP	0	5%	1/10W
C811	1-164-156-11	CERAMIC CHIP	0.1uF		25V	JC307	1-216-864-11	METAL CHIP	0	5%	1/10W
C812	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	JC308	1-216-864-11	METAL CHIP	0	5%	1/10W
C813	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	JC309	1-216-864-11	METAL CHIP	0	5%	1/10W
C814	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V						
C815	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V						
C816	1-162-919-11	CERAMIC CHIP	22PF	5%	50V						
C817	1-162-919-11	CERAMIC CHIP	22PF	5%	50V						

CFD-S100/S200

MAIN

Ref. No.	Part No.	Description	Remark		
JC310	1-216-864-11	METAL CHIP	0	5%	1/10W
JC311	1-216-864-11	METAL CHIP	0	5%	1/10W
JC801	1-216-864-11	METAL CHIP	0	5%	1/10W
JC802	1-216-864-11	METAL CHIP	0	5%	1/10W
JC803	1-216-864-11	METAL CHIP	0	5%	1/10W
JC804	1-216-864-11	METAL CHIP	0	5%	1/10W
JC805	1-216-864-11	METAL CHIP	0	5%	1/10W
JC806	1-216-864-11	METAL CHIP	0	5%	1/10W
JC807	1-216-864-11	METAL CHIP	0	5%	1/10W
< CABLE HOLDER >					
KH301	1-824-027-11	HOLDER, CABLE 3P			
KH321	1-824-029-11	HOLDER, CABLE 4P			
KH803	1-824-028-11	HOLDER, CABLE 2P			
< COIL >					
L801	1-414-137-31	INDUCTOR	0.22uH		
L802	1-410-521-11	INDUCTOR	100uH		
< TRANSISTOR >					
Q122	8-729-905-34	TRANSISTOR	2SC4081-Q		
Q124	8-729-029-10	TRANSISTOR	DTC143TUA-T106		
Q125	8-729-905-34	TRANSISTOR	2SC4081-Q		
Q222	8-729-905-34	TRANSISTOR	2SC4081-Q		
Q224	8-729-029-10	TRANSISTOR	DTC143TUA-T106		
Q225	8-729-905-34	TRANSISTOR	2SC4081-Q		
Q801	8-729-029-16	TRANSISTOR	DTC144VUA-T106		
Q804	8-729-028-77	TRANSISTOR	DTA115EUA-T106		
Q806	8-729-028-77	TRANSISTOR	DTA115EUA-T106		
Q808	8-729-028-99	TRANSISTOR	DTC114YUA-T106		
Q812	8-729-028-92	TRANSISTOR	DTA144TUA-T106		
Q813	8-729-028-99	TRANSISTOR	DTC114YUA-T106		
Q814	8-729-028-99	TRANSISTOR	DTC114YUA-T106		
Q819	8-729-029-00	TRANSISTOR	DTC115EUA-T106		
Q952	8-729-040-76	TRANSISTOR	KTA1273-Y-AT		
Q953	8-729-029-13	TRANSISTOR	DTC143ZUA-T106		
Q955	8-729-021-82	TRANSISTOR	2SD2396K		
Q957	8-729-212-02	TRANSISTOR	2SC2120-Y		
Q958	8-729-028-90	TRANSISTOR	DTA143ZUA-T106		
Q959	8-729-028-99	TRANSISTOR	DTC114YUA-T106		
< RESISTOR >					
R125	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R126	1-216-821-11	METAL CHIP	1K	5%	1/10W
R126	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R127	1-216-833-11	METAL CHIP	10K	5%	1/10W
R128	1-216-817-11	METAL CHIP	470	5%	1/10W
R130	1-216-813-11	METAL CHIP	220	5%	1/10W
R131	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R140	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R144	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R145	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R146	1-216-853-11	METAL CHIP	470K	5%	1/10W
R147	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description	Remark		
R148	1-216-813-11	METAL CHIP	220	5%	1/10W
R149	1-216-821-11	METAL CHIP	1K	5%	1/10W
R225	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R226	1-216-821-11	METAL CHIP	1K	5%	1/10W
R226	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R227	1-216-833-11	METAL CHIP	10K	5%	1/10W
R228	1-216-817-11	METAL CHIP	470	5%	1/10W
R230	1-216-813-11	METAL CHIP	220	5%	1/10W
R231	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R240	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R244	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R245	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R246	1-216-853-11	METAL CHIP	470K	5%	1/10W
R247	1-216-821-11	METAL CHIP	1K	5%	1/10W
R248	1-216-813-11	METAL CHIP	220	5%	1/10W
R249	1-216-821-11	METAL CHIP	1K	5%	1/10W
R301	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R302	1-216-833-11	METAL CHIP	10K	5%	1/10W
R322	1-216-833-11	METAL CHIP	10K	5%	1/10W
R323	1-216-857-11	METAL CHIP	1M	5%	1/10W
R324	1-216-833-11	METAL CHIP	10K	5%	1/10W
R325	1-216-821-11	METAL CHIP	1K	5%	1/10W
R328	1-216-821-11	METAL CHIP	1K	5%	1/10W
R329	1-216-817-11	METAL CHIP	470	5%	1/10W
R330	1-216-817-11	METAL CHIP	470	5%	1/10W
R333	1-216-833-11	METAL CHIP	10K	5%	1/10W
R334	1-216-809-11	METAL CHIP	100	5%	1/10W
R360	1-216-833-11	METAL CHIP	10K	5%	1/10W
R361	1-216-833-11	METAL CHIP	10K	5%	1/10W
R802	1-216-841-11	METAL CHIP	47K	5%	1/10W
R803	1-216-841-11	METAL CHIP	47K	5%	1/10W
R804	1-216-833-11	METAL CHIP	10K	5%	1/10W
R805	1-216-833-11	METAL CHIP	10K	5%	1/10W
R806	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R807	1-216-833-11	METAL CHIP	10K	5%	1/10W
R808	1-216-845-11	METAL CHIP	100K	5%	1/10W
R809	1-216-833-11	METAL CHIP	10K	5%	1/10W
R810	1-216-845-11	METAL CHIP	100K	5%	1/10W
R811	1-216-845-11	METAL CHIP	100K	5%	1/10W
R812	1-216-845-11	METAL CHIP	100K	5%	1/10W
R813	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R814	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R815	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R816	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R817	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R818	1-216-821-11	METAL CHIP	1K	5%	1/10W
R819	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R820	1-216-813-11	METAL CHIP	220	5%	1/10W
R820	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R820	1-216-833-11	METAL CHIP	10K	5%	1/10W

(E92,MX,SP,TW,AR)
(US,CND,AUS)

(S200)

(US)

(SP,AR)
(AUS,TW)

MAIN

POWER

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R820	1-216-864-11	METAL CHIP	0	5%	1/10W (CND,E92,MX)	R881	1-216-821-11	METAL CHIP	1K	5%	1/10W
R821	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R882	1-216-821-11	METAL CHIP	1K	5%	1/10W
R822	1-216-817-11	METAL CHIP	470	5%	1/10W (US,SP)	R883	1-216-821-11	METAL CHIP	1K	5%	1/10W
R822	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (AUS,TW)	R884	1-216-821-11	METAL CHIP	1K	5%	1/10W
R822	1-216-864-11	METAL CHIP	0	5%	1/10W (CND,E92,MX,AR)	R885	1-216-821-11	METAL CHIP	1K	5%	1/10W
R823	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R886	1-216-821-11	METAL CHIP	1K	5%	1/10W
R824	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R887	1-216-821-11	METAL CHIP	1K	5%	1/10W
R825	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R888	1-216-821-11	METAL CHIP	1K	5%	1/10W
R826	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R889	1-216-821-11	METAL CHIP	1K	5%	1/10W
R827	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R890	1-216-821-11	METAL CHIP	1K	5%	1/10W
R828	1-216-821-11	METAL CHIP	1K	5%	1/10W	R891	1-216-821-11	METAL CHIP	1K	5%	1/10W
R829	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R892	1-216-821-11	METAL CHIP	1K	5%	1/10W
R830	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R893	1-216-821-11	METAL CHIP	1K	5%	1/10W
R831	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R894	1-216-821-11	METAL CHIP	1K	5%	1/10W
R832	1-216-841-11	METAL CHIP	47K	5%	1/10W	R895	1-216-821-11	METAL CHIP	1K	5%	1/10W
R833	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R896	1-216-821-11	METAL CHIP	1K	5%	1/10W
R834	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R897	1-216-821-11	METAL CHIP	1K	5%	1/10W
R835	1-216-841-11	METAL CHIP	47K	5%	1/10W	R898	1-216-821-11	METAL CHIP	1K	5%	1/10W
R836	1-216-841-11	METAL CHIP	47K	5%	1/10W	R899	1-216-821-11	METAL CHIP	1K	5%	1/10W
R837	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R951	1-216-841-11	METAL CHIP	47K	5%	1/10W
R838	1-216-837-11	METAL CHIP	22K	5%	1/10W	R952	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R839	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R953	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R840	1-216-809-11	METAL CHIP	100	5%	1/10W	R954	1-216-821-11	METAL CHIP	1K	5%	1/10W
R841	1-216-809-11	METAL CHIP	100	5%	1/10W	R955	1-216-821-11	METAL CHIP	1K	5%	1/10W
R842	1-216-821-11	METAL CHIP	1K	5%	1/10W	R956	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R843	1-216-821-11	METAL CHIP	1K	5%	1/10W	< VIBRATOR >					
R844	1-216-833-11	METAL CHIP	10K	5%	1/10W	X801	1-795-267-11	VIBRATOR, CRYSTAL (32.768kHz)			
R845	1-216-841-11	METAL CHIP	47K	5%	1/10W	X802	1-781-775-21	VIBRATOR, CERAMIC (4.19MHz)			
R846	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	*****					
R847	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	*****					
R848	1-216-821-11	METAL CHIP	1K	5%	1/10W	*	1-685-394-11	POWER BOARD			
R849	1-216-841-11	METAL CHIP	47K	5%	1/10W		*****				
R850	1-216-821-11	METAL CHIP	1K	5%	1/10W		1-533-233-11	HOLDER, FUSE (CND,AUS,SP,TW,AR)			
R851	1-216-813-11	METAL CHIP	220	5%	1/10W (S200)		< CAPACITOR >				
R852	1-216-813-11	METAL CHIP	220	5%	1/10W (S200)	C901	1-162-995-11	CERAMIC CHIP	0.022uF		50V
R853	1-216-813-11	METAL CHIP	220	5%	1/10W (S200)	C902	1-162-995-11	CERAMIC CHIP	0.022uF		50V
R854	1-216-841-11	METAL CHIP	47K	5%	1/10W	C903	1-162-995-11	CERAMIC CHIP	0.022uF		50V
R855	1-216-864-11	METAL CHIP	0	5%	1/10W	C904	1-162-995-11	CERAMIC CHIP	0.022uF		50V
R856	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C906	1-126-964-11	ELECT	10uF	20%	50V
R859	1-216-821-11	METAL CHIP	1K	5%	1/10W	< CONNECTOR >					
R860	1-216-841-11	METAL CHIP	47K	5%	1/10W	* CNP901	1-815-551-11	PIN, CONNECTOR (PC BOARD) 3P			
R861	1-216-821-11	METAL CHIP	1K	5%	1/10W	* CNP902	1-815-552-21	PIN, CONNECTOR (PC BOARD) 4P			
R862	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	< DIODE >					
R865	1-216-841-11	METAL CHIP	47K	5%	1/10W	D901	8-719-063-79	DIODE 1N4002B			
R866	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	D902	8-719-063-79	DIODE 1N4002B			
R867	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	D903	8-719-063-79	DIODE 1N4002B			
R870	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	D904	8-719-063-79	DIODE 1N4002B			
R876	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R877	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R880	1-216-821-11	METAL CHIP	1K	5%	1/10W						

CFD-S100/S200

POWER TC

Ref. No.	Part No.	Description	Remark		
< FUSE >					
△ F902	1-533-469-11	FUSE, GLASS TUBE (DIA.5) (T2.5AL/250V)	(AUS,SP,AR)		
△ F902	1-533-470-11	FUSE, GLASS TUBE (DIA.5) (3.15A/125V)	(CND,TW)		
< AC INLET >					
△ J901	1-526-818-11	INLET, AC (∼ AC IN) (E92,MX)			
△ J901	1-526-838-11	INLET, AC 2P (∼ AC IN) (AUS,SP,AR)			
△ J901	1-540-009-11	INLET, AC (∼ AC IN) (US,CND,TW)			
< TRANSFORMER >					
△ T901	1-435-917-11	TRANSFORMER, POWER (US,CND)			
△ T901	1-435-918-11	TRANSFORMER, POWER (AUS,SP,AR)			
△ T901	1-437-351-11	TRANSFORMER, POWER (TW)			
△ T901	1-437-540-11	TRANSFORMER, POWER (E92,MX)			

*	A-3323-806-A	TC BOARD, COMPLETE	*****		
< CAPACITOR >					
C101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C102	1-104-665-11	ELECT	100uF	20%	10V
C103	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C104	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C105	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C107	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C201	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C202	1-104-665-11	ELECT	100uF	20%	10V
C203	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C204	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C205	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C207	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C301	1-104-665-11	ELECT	100uF	20%	10V
C302	1-104-665-11	ELECT	100uF	20%	10V
C303	1-104-665-11	ELECT	100uF	20%	10V
C304	1-126-947-11	ELECT	47uF	20%	10V
C305	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C307	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C308	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C310	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
< CONNECTOR >					
CN303	1-784-774-11	CONNECTOR, FFC 13P			
< IC >					
IC301	8-759-264-71	IC TA2068N			
< JUMPER RESISTOR >					
JC301	1-216-864-11	METAL CHIP	0	5%	1/10W
JC302	1-216-864-11	METAL CHIP	0	5%	1/10W
JC303	1-216-864-11	METAL CHIP	0	5%	1/10W
JC304	1-216-864-11	METAL CHIP	0	5%	1/10W

Ref. No.	Part No.	Description	Remark		
JC305	1-216-864-11	METAL CHIP	0	5%	1/10W
JC306	1-216-295-11	SHORT CHIP	0		
JC307	1-216-864-11	METAL CHIP	0	5%	1/10W
JC308	1-216-295-11	SHORT CHIP	0		
JC309	1-216-864-11	METAL CHIP	0	5%	1/10W
< TRANSISTOR >					
Q301	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		
Q302	8-729-907-00	TRANSISTOR	DTC114EU		
Q303	8-729-907-00	TRANSISTOR	DTC114EU		
< RESISTOR >					
R101	1-216-835-11	METAL CHIP	15K	5%	1/10W
R102	1-216-807-11	METAL CHIP	68	5%	1/10W
R103	1-216-843-11	METAL CHIP	68K	5%	1/10W
R104	1-216-835-11	METAL CHIP	15K	5%	1/10W
R105	1-216-835-11	METAL CHIP	15K	5%	1/10W
R106	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R110	1-216-809-11	METAL CHIP	100	5%	1/10W
R111	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R112	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R201	1-216-835-11	METAL CHIP	15K	5%	1/10W
R202	1-216-807-11	METAL CHIP	68	5%	1/10W
R203	1-216-843-11	METAL CHIP	68K	5%	1/10W
R204	1-216-835-11	METAL CHIP	15K	5%	1/10W
R205	1-216-835-11	METAL CHIP	15K	5%	1/10W
R206	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R210	1-216-025-11	RES-CHIP	100	5%	1/10W
R211	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R212	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R301	1-216-857-11	METAL CHIP	1M	5%	1/10W
R302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R303	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R304	1-216-821-11	METAL CHIP	1K	5%	1/10W
R305	1-216-817-11	METAL CHIP	470	5%	1/10W
R306	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R307	1-216-797-11	METAL CHIP	10	5%	1/10W
R308	1-216-837-11	METAL CHIP	22K	5%	1/10W
R309	1-216-805-11	METAL CHIP	47	5%	1/10W
R310	1-216-857-11	METAL CHIP	1M	5%	1/10W
R311	1-216-857-11	METAL CHIP	1M	5%	1/10W
R314	1-216-817-11	METAL CHIP	470	5%	1/10W
R315	1-216-817-11	METAL CHIP	470	5%	1/10W
< SWITCH >					
S301	1-786-126-11	SWITCH, SLIDE (REC/PB)			
< TRANSFORMER >					
T301	1-416-041-11	TRANSFORMER, BIAS OSCILLATION			

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
*	A-3323-778-A	TUNER BOARD, COMPLETE (US,CND,E92,MX)				C62	1-162-927-11	CERAMIC CHIP 100PF 5%	50V		
*	A-3323-815-A	TUNER BOARD, COMPLETE (AUS,SP,TW,AR)				C63	1-162-927-11	CERAMIC CHIP 100PF 5%	50V		
		*****				C65	1-126-963-11	ELECT 4.7uF 20%	50V		
	3-237-724-01	TERMINAL, ANTENNA (CNP2)				C66	1-162-927-11	CERAMIC CHIP 100PF 5%	50V		
		< CAPACITOR >				C68	1-162-927-11	CERAMIC CHIP 100PF 5%	50V		
C1	1-162-923-11	CERAMIC CHIP 47PF 5%	50V			C77	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V		
C4	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V			C78	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V		
C7	1-162-910-11	CERAMIC CHIP 5PF 0.25PF	50V			C80	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V		
C8	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V			C95	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V		
C9	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V					< FILTER >			
C10	1-126-960-11	ELECT 1uF 20%	50V			CF2	1-760-023-11	FILTER, CERAMIC			
C11	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V			CF4	1-781-962-21	FILTER, CERAMIC			
C12	1-126-963-11	ELECT 4.7uF 20%	50V					< CONNECTOR >			
C13	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V			* CNP1	1-785-663-11	PIN, CONNECTOR (PC BOARD) 11P			
C14	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V					< TRIMMER >			
		(AUS,SP,TW,AR)				CT1	1-141-603-11	CAP, ADJ 20PF			
C14	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V			CT3	1-141-601-11	CAP, ADJ 10PF			
C15	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V					< DIODE >			
C15	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V			D1	8-719-078-48	DIODE KV1471ETR1-3			
		(US,CND,E92,MX)				D2	8-719-078-48	DIODE KV1471ETR1-3			
C18	1-126-934-11	ELECT 220uF 20%	10V			D3	8-719-050-69	DIODE KV1520N			
C20	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V			D10	8-719-988-61	DIODE 1SS355TE-17			
C21	1-126-960-11	ELECT 1uF 20%	50V			D11	8-719-988-61	DIODE 1SS355TE-17			
C22	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V					< IC >			
C23	1-126-960-11	ELECT 1uF 20%	50V			IC1	6-700-512-01	IC TA2149BN			
C24	1-162-960-11	CERAMIC CHIP 220PF 10%	50V			IC2	8-759-483-40	IC LC72137M-TLM			
C26	1-162-927-11	CERAMIC CHIP 100PF 5%	50V					< JUMPER RESISTOR >			
C27	1-162-927-11	CERAMIC CHIP 100PF 5%	50V			JC1	1-216-864-11	METAL CHIP 0 5%	1/10W		
C29	1-104-665-11	ELECT 100uF 20%	10V			JC2	1-216-864-11	METAL CHIP 0 5%	1/10W		
C30	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V			JC3	1-216-864-11	METAL CHIP 0 5%	1/10W		
C31	1-162-919-11	CERAMIC CHIP 22PF 5%	50V			JC4	1-216-864-11	METAL CHIP 0 5%	1/10W		
C32	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V			JC5	1-216-864-11	METAL CHIP 0 5%	1/10W		
C33	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V			JC6	1-216-864-11	METAL CHIP 0 5%	1/10W		
C34	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V			JC11	1-216-864-11	METAL CHIP 0 5%	1/10W		
C35	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V			JC12	1-216-864-11	METAL CHIP 0 5%	1/10W		
C37	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V			JC13	1-216-864-11	METAL CHIP 0 5%	1/10W		
C39	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V			JC24	1-216-864-11	METAL CHIP 0 5%	1/10W		
C41	1-164-230-11	CERAMIC CHIP 220PF 5%	50V					(AUS,SP,TW,AR)			
C42	1-162-927-11	CERAMIC CHIP 100PF 5%	50V			JC33	1-216-864-11	METAL CHIP 0 5%	1/10W		
C43	1-162-919-11	CERAMIC CHIP 22PF 5%	50V			JC34	1-216-864-11	METAL CHIP 0 5%	1/10W		
C47	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V					< COIL >			
C49	1-161-051-00	CERAMIC 0.01uF 10%	50V			L1	1-409-775-11	COIL, AIR-CORE			
C51	1-162-919-11	CERAMIC CHIP 22PF 5%	50V			L2	1-416-509-11	COIL, AIR-CORE			
C52	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V			L3	1-754-117-11	ANTENNA, FERRITE-ROD (AM)			
C53	1-136-169-00	FILM 0.22uF 5%	50V			L4	1-411-234-21	COIL, AM OSC			
C54	1-126-934-11	ELECT 220uF 20%	10V			L11	1-414-142-11	INDUCTOR 1uH (US,CND,E92,MX)			
C55	1-162-927-11	CERAMIC CHIP 100PF 5%	50V								
C56	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V								
C57	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V								
C59	1-162-927-11	CERAMIC CHIP 100PF 5%	50V								
C60	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V								
C61	1-162-927-11	CERAMIC CHIP 100PF 5%	50V								

TUNER

Ref. No.	Part No.	Description	Remark		
L21	1-410-509-61	INDUCTOR	10uH		
< RESISTOR >					
R1	1-216-815-11	METAL CHIP	330	5%	1/10W
R2	1-216-817-11	METAL CHIP	470	5%	1/10W
R3	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4	1-216-833-11	METAL CHIP	10K	5%	1/10W
R10	1-216-805-11	METAL CHIP	47	5%	1/10W
R11	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R13	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R24	1-216-813-11	METAL CHIP	220	5%	1/10W
R30	1-216-835-11	METAL CHIP	15K	5%	1/10W
R31	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R32	1-216-845-11	METAL CHIP	100K	5%	1/10W
R40	1-216-849-11	METAL CHIP	220K	5%	1/10W
R41	1-216-833-11	METAL CHIP	10K	5%	1/10W
R50	1-216-821-11	METAL CHIP	1K	5%	1/10W
R51	1-216-833-11	METAL CHIP	10K	5%	1/10W
R52	1-216-864-11	METAL CHIP	0	5%	1/10W
R53	1-216-835-11	METAL CHIP	15K	5%	1/10W
R54	1-216-817-11	METAL CHIP	470	5%	1/10W
R56	1-216-815-11	METAL CHIP	330	5%	1/10W
R58	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R59	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R60	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R61	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R63	1-216-833-11	METAL CHIP	10K	5%	1/10W
R65	1-216-833-11	METAL CHIP	10K	5%	1/10W
R91	1-216-813-11	METAL CHIP	220	5%	1/10W
R92	1-216-813-11	METAL CHIP	220	5%	1/10W
R94	1-216-821-11	METAL CHIP	1K	5%	1/10W
< TRANSFORMER >					
T1	1-433-741-11	TRANSFORMER, IF			
T2	1-419-465-11	COIL (DET)			
< VIBRATOR >					
X1	1-795-449-11	VIBRATOR, CRYSTAL (75kHz)			

MISCELLANEOUS					

109	1-452-899-11	MAGNET			
118	1-757-689-11	CABLE, FLEXIBLE FLAT (16 CORE)			
119	1-824-034-11	CABLE, FLEXIBLE FLAT 14P			
164	1-824-031-11	CABLE, FLEXIBLE FLAT 13P			
△ 253	8-820-161-02	PICK-UP, OPTICAL KSS-213R/C2RP			
ANT1	1-754-241-11	ANTENNA, TELESCOPIC (FM)			
HRP301	3-244-085-01	HEAD, R/P (REC/PB)			
M801	3-244-082-01	MOTOR ASSY (CAPSTAN/REEL)			
S801	1-692-960-11	SWITCH, PUSH (1 KEY)			
(▲ PUSH OPEN/CLOSE)					
SP301	1-825-031-11	SPEAKER (10cm) (WOOFER) (L-CH)			
SP302	1-825-031-11	SPEAKER (10cm) (WOOFER) (R-CH)			

Ref. No.	Part No.	Description	Remark
ACCESSORIES			

△	1-557-287-11	CORD, POWER (E92,MX,TW)	
△	1-575-131-11	CORD, POWER (SP)	
△	1-690-952-11	CORD, POWER (CND)	
△	1-696-819-11	CORD, POWER (AUS)	
△	1-782-126-11	CORD, POWER (US)	
△	1-783-952-11	CORD, POWER (AR)	
	3-238-070-01	LID, BATTERY CASE (for RMT-CS200A) (S200)	
	3-238-275-11	MANUAL, INSTRUCTION (ENGLISH) (S200)	
	3-238-275-21	MANUAL, INSTRUCTION (FRENCH) (CND)	
	3-238-275-31	MANUAL, INSTRUCTION (SPANISH) (E92,MX)	
	3-238-275-42	MANUAL, INSTRUCTION (ENGLISH,SPANISH)	(S100)
	3-240-552-31	MANUAL, INSTRUCTION	(TRADITIONAL CHINESE)
			(TW)
A-3013-955-A	REMOTE COMMANDER (RMT-CS200A) (S200)		

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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CFD-S100/S200

SONY®

SERVICE MANUAL

Ver 1.2 2004. 09

*US Model
Canadian Model*

CFD-S200

E Model

CFD-S100/S200

Australian Model

CFD-S100

SUPPLEMENT-1

File this supplement with the service manual.

Subject: Change of CD Mechanism Block (KSM-213RDP→KSM-213CDP)

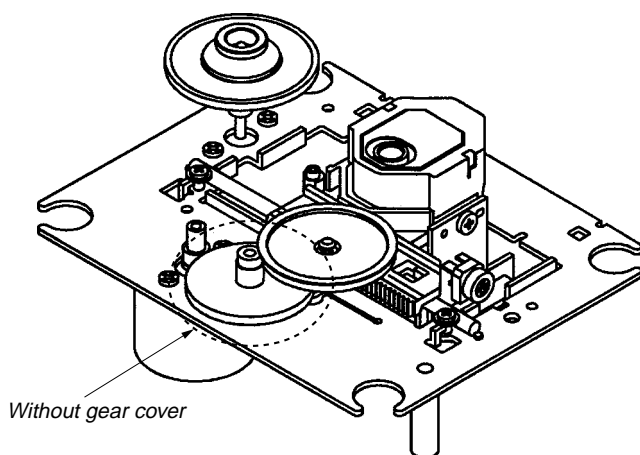
(SPM-04041)

CD mechanism block is changed from KSM-213RDP to KSM-213CDP in the midway of production.

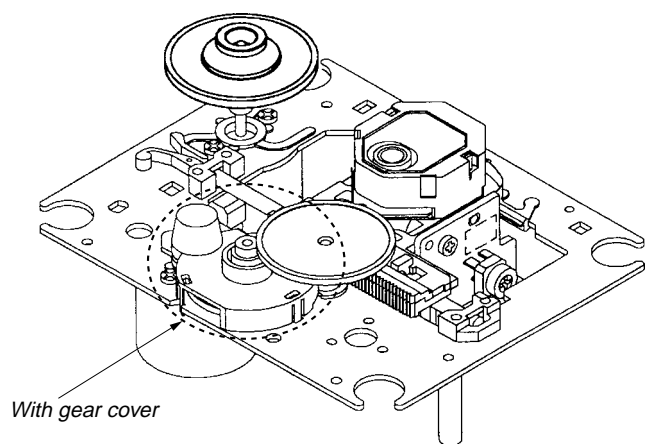
In performing the replacing of CD mechanism block, be sure to check which CD mechanism block is used, according to the following identification. SUPPLEMENT-1 has indicated only the information of KSM-213CDP.

IDENTIFICATION

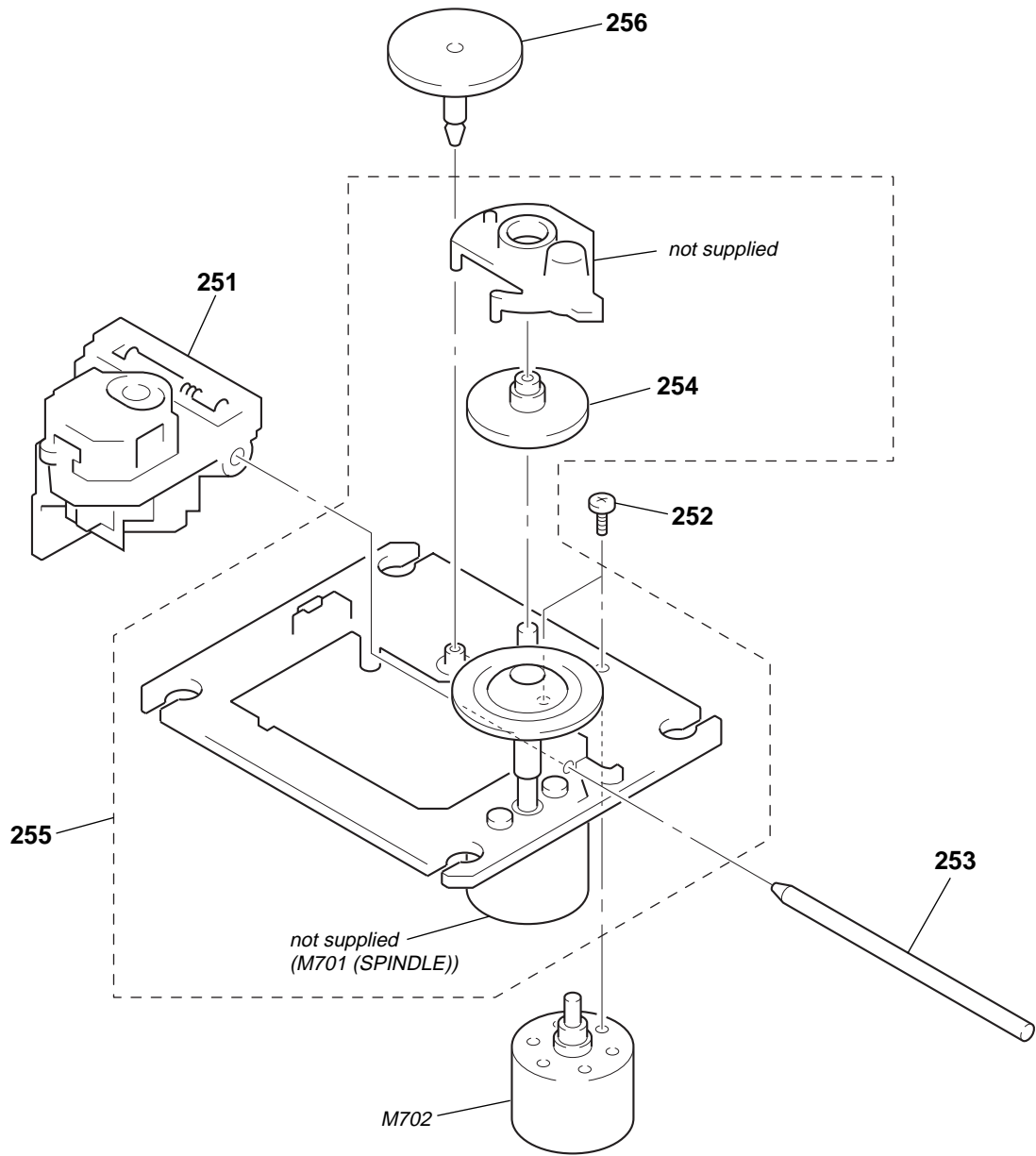
KSM-213RDP



KSM-213CDP



CD MECHANISM SECTION
(KSM-213CDP)



<p>The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
\triangle 251	8-848-483-12	OPTICAL PICK-UP (KSS-213C/C2RP1)		255	X-2162-709-2	CHASSIS ASSY (CDP), MOTOR (including M701 (SPINDLE))	
252	2-174-500-01	SCREW (2X3)		256	2-626-907-11	GEAR (A)	
253	2-626-908-01	SHAFT, SLED		M702	X-2625-769-1	GEAR ASSY (MB) (RP), MOTOR (SLED)	
254	2-627-003-01	GEAR (B) (RP)					

CFD-S100/S200

SONY

SERVICE MANUAL

Ver. 1.5 2006.03

US Model

Canadian Model

CFD-S200

E Model

CFD-S100/S200

Australian Model

CFD-S100

SUPPLEMENT-2

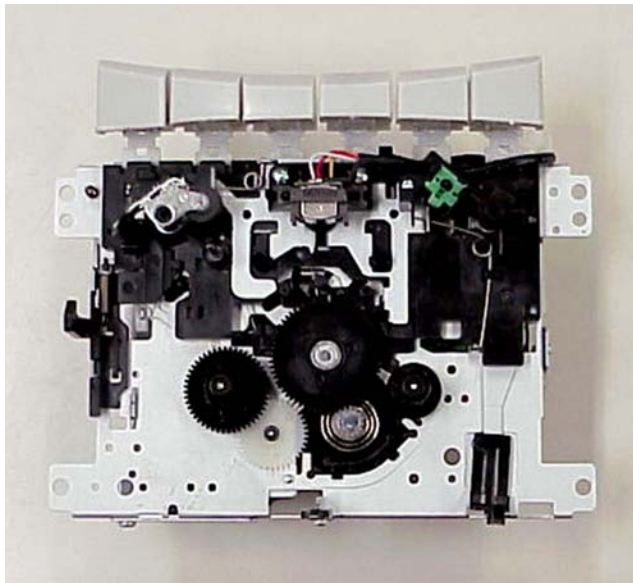
File this supplement with the service manual.

Subject: Change of tape mechanism

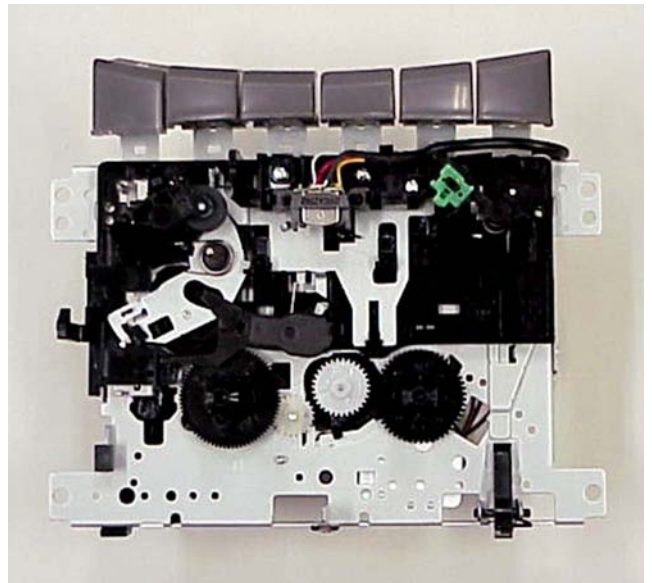
This model is using two kinds of tape mechanisms.
In performing the replacing of tape mechanism, be sure to check which
tape mechanism is used, according to the following identification.
SUPPLEMENT-2 has indicated only the information of MF-S200//C1.
Please see page 42 of the service manual about MF-S200//C.

IDENTIFICATION

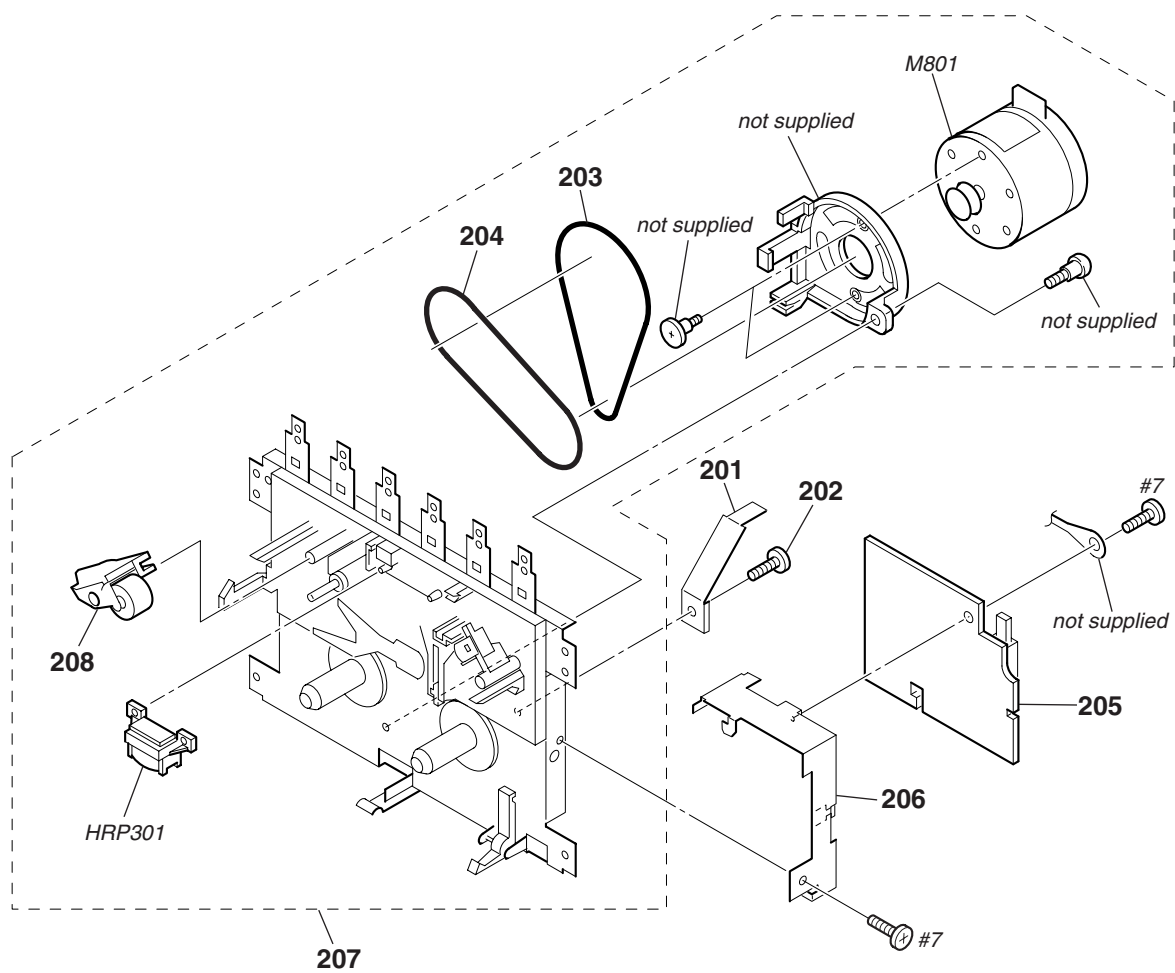
MF-S200//C



MF-S200//C1



TAPE MECHANISM SECTION
(MF-S200//C1)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-237-718-01	LEVER REC		207	A-1159-075-A	MF-S200//C1	
202	3-030-741-01	SCREW (M2X2)		208	3-244-086-01	ARM, PINCH ROLLER	
203	2-663-211-01	BELT (B1), MAIN		HRP301	3-244-085-01	HEAD, R/P (REC/PB)	
204	2-663-212-01	BELT (B1), SUB		M801	2-663-205-01	MOTOR ASSY (CAPSTAN/REEL)	
* 205	A-3323-806-A	TC BOARD, COMPLETE		#7	7-685-851-04	SCREW +BVTT 2X4 (S)	
206	3-237-719-02	CHASSIS, TC					

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper on the revised page allows you to jump to the next revised page.

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