

CFD-S550

SERVICE MANUAL

Ver. 1.3 2006.02

US Model
Canadian Model
E Model



CD Section	Model Name Using Similar Mechanism	CFD-S200
	CD Mechanism Type	KSM-213RDP
	Optical Pick-up Name	KSS-213R
TC Section	Model Name Using Similar Mechanism	CFD-S200
	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

EA, KR, SP model:

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

530 - 1,610 kHz (10 kHz step)

IF

FM: 10.7 MHz

AM: 450 kHz

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

9-877-082-04

2006B04-1

© 2006.02

Sony Corporation

Personal Audio Division

Published by Sony Techno Create Corporation

SONY®

CFD-S550

General

- Speaker
- Full range: 10 cm dia., 3.2 Ω, cone type (2)
- Input
- LINE IN jack (stereo minijack): US, CND model
 - Minimum input level 330 mV
- Outputs
- Headphones jack (stereo minijack)
 - For 16 - 68 Ω impedance headphones
- Power output
- 2.3 W + 2.3 W (at 3.2 Ω, 10% harmonic distortion)
- Power requirements
- For CD radio cassette-corder: US, CND, E92, MX model: 120 V AC, 60 Hz
 - EA model: 110 - 127 V, 220 - 240 V AC selectable, 50/60 Hz
 - KR model: 220 V AC, 60 Hz
 - SP model: 230 V AC, 50 Hz
 - 9 V DC, 6 size D (R20) batteries
 - For remote control: 3 V DC, 2 size AA (R6) 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 × 173 × 269 mm (w/h/d)
 - (15 1/4 × 6 7/8 × 10 5/8 inches) (incl. projecting parts)
- Mass
- Approx. 3.5 kg (7 lb. 11 oz.) (incl. batteries)
- Supplied accessories
- AC power cord (1)
 - Remote control (RMT-CS400A) (1)
- Design and specifications are subject to change without notice.

- Abbreviation
 - CND : Canadian model
 - E92 : AC 120V area in E model
 - MX : Mexican model
 - EA : AC 110-127V/220-240V area in E model
 - KR : Korean model
 - SP : Singapore 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  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.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  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:

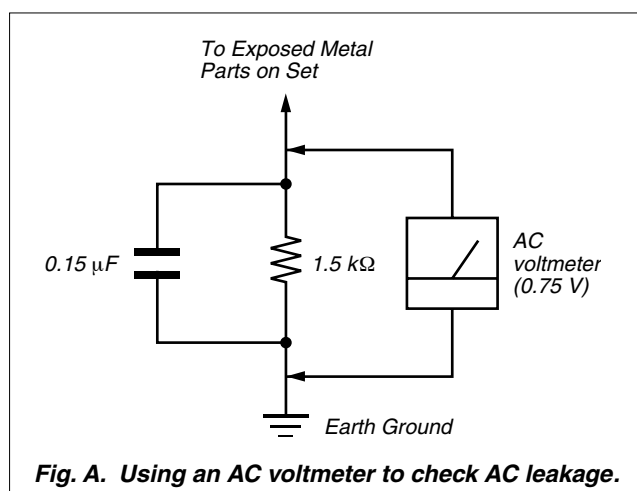
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.

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)

**TABLE OF CONTENTS**

1. SERVICING NOTES	4
2. GENERAL	5
3. DISASSEMBLY	
3-1. Cabinet (Upper) Assy	7
3-2. Cabinet (Front) Assy, Cabinet (Rear) Assy	7
3-3. Wires	8
3-4. MD Block	8
3-5. Holder (Cassette)	9
3-6. LCD Board	9
3-7. Main Board	10
3-8. Tuner Board	10
3-9. Power Board, VOL SEL Board	11
3-10. CD Lid	11
3-11. CD Block Assy	12
3-12. Optical Pick-up	12
3-13. R/P Head (HRP301), TC Board	13
3-14. Motor Assy (M801), Main Belt (B), Sub Belt (B)	13
4. MECHANICAL ADJUSTMENTS	14
5. ELECTRICAL ADJUSTMENTS	
Tape Section	14
Tuner Section	15
CD Section	16
6. DIAGRAMS	
6-1. IC Pin Description	17
6-2. Circuit Boards Location	17
6-3. Block Diagram – CD Section –	18
6-4. Block Diagram – Main Section –	19
6-5. Printed Wiring Board – CD Section –	20
6-6. Schematic Diagram – CD Section –	21
6-7. Printed Wiring Board – Tuner Section –	22
6-8. Schematic Diagram – Tuner Section –	23
6-9. Printed Wiring Boards – Main Section –	24
6-10. Schematic Diagram – Main Section (1/2) –	25
6-11. Schematic Diagram – Main Section (2/2) –	26
6-12. Printed Wiring Board – TC Section –	27
6-13. Schematic Diagram – TC Section –	28
6-14. Printed Wiring Boards – Control Section –	29
6-15. Schematic Diagram – Control Section –	30
6-16. Printed Wiring Boards – Power Supply Section –	31
6-17. Schematic Diagram – Power Supply Section –	32
6-18. IC Block Diagrams	33
7. EXPLODED VIEWS	
7-1. Main Section	36
7-2. Cabinet (Front) Section	37
7-3. Cabinet (Upper) (1) Section	38
7-4. Cabinet (Upper) (2) Section	39
7-5. Cabinet (Rear) Section	40
7-6. Tape Mechanism Section	41
7-7. CD Mechanism Section	42
8. ELECTRICAL PARTS LIST	43

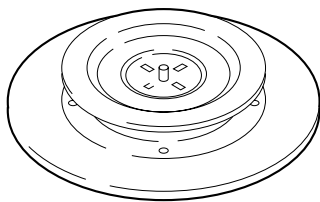
SECTION 1

SERVICING NOTES

CHUCK PLATE JIG ON REPAIRING

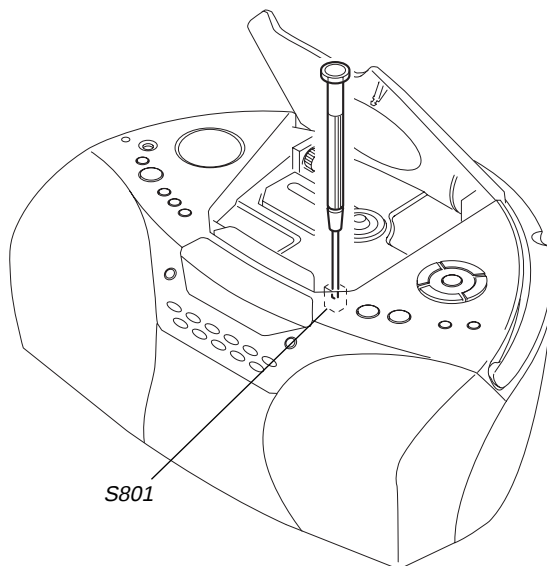
On repairing CD section, playing a disc without the lid (CD), use Chuck Plate Jig.

- 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.



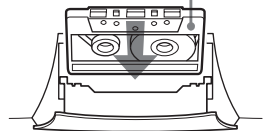
SECTION 2 GENERAL

This section is extracted
from instruction manual.

Location of controls

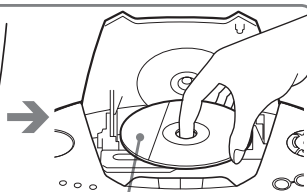
Inserting a cassette

With the side you want
to play facing you

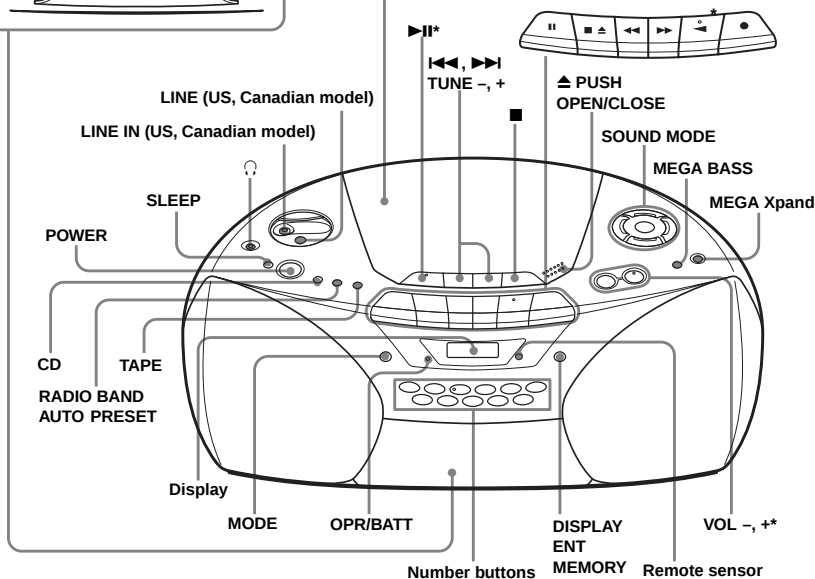


Loading a CD

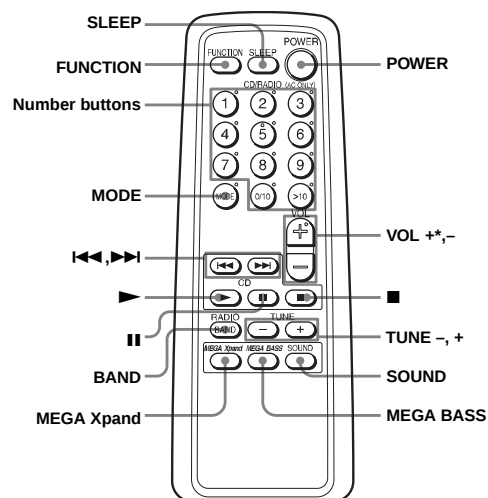
PUSH
OPEN/CLOSE



With the labeled side up



Remote Control



Display

D

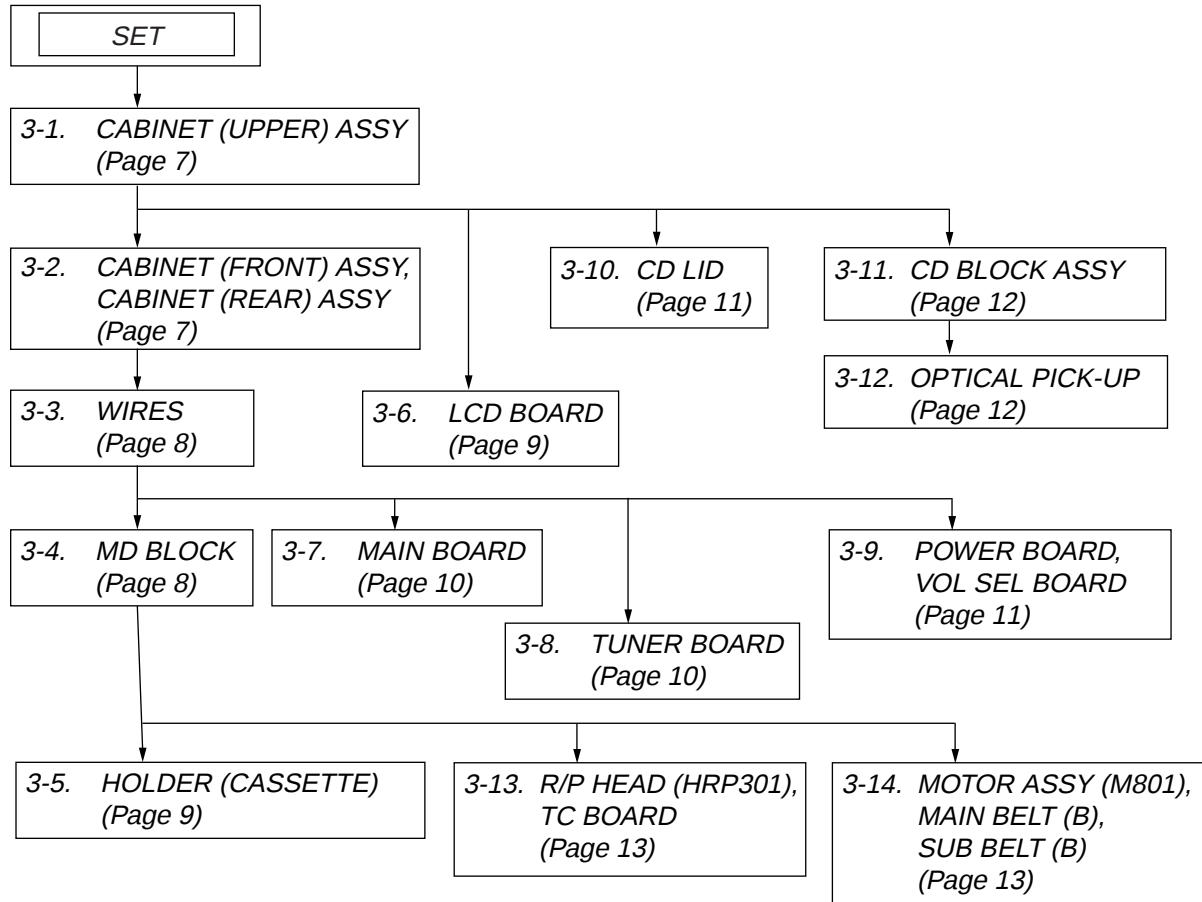
Total track number — 12 55:27 — Total playing time

E

Programmed track — 03 01 — Playing order

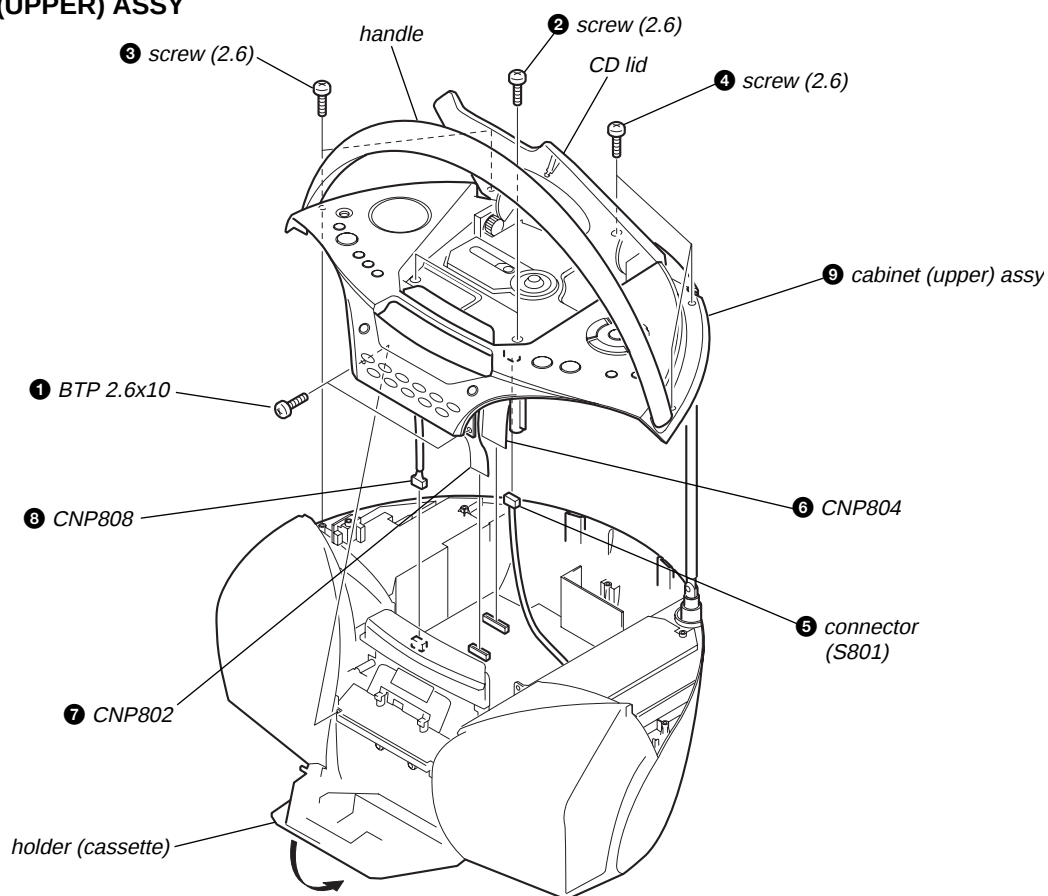
SECTION 3 DISASSEMBLY

- The equipment can be removed using the following procedure.

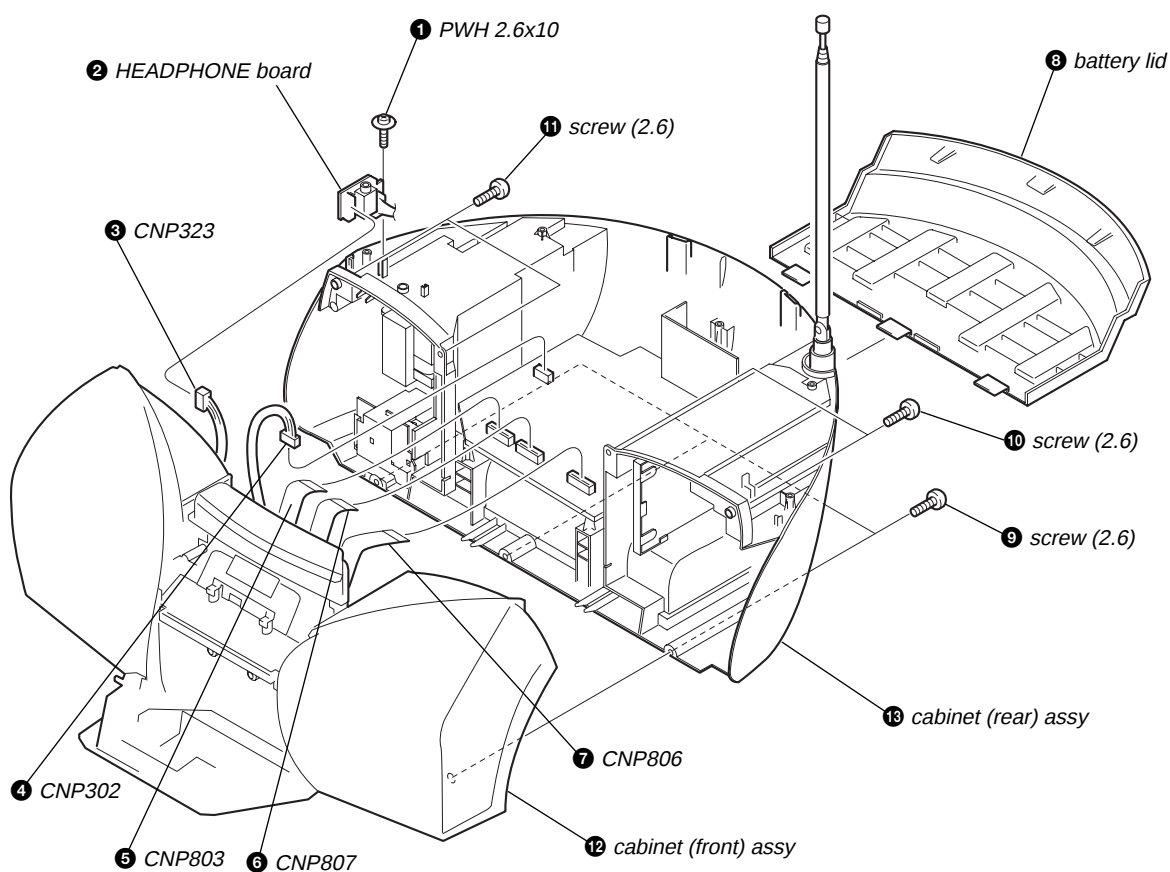


Note : Follow the disassembly procedure in the numerical order given.

3-1. CABINET (UPPER) ASSY

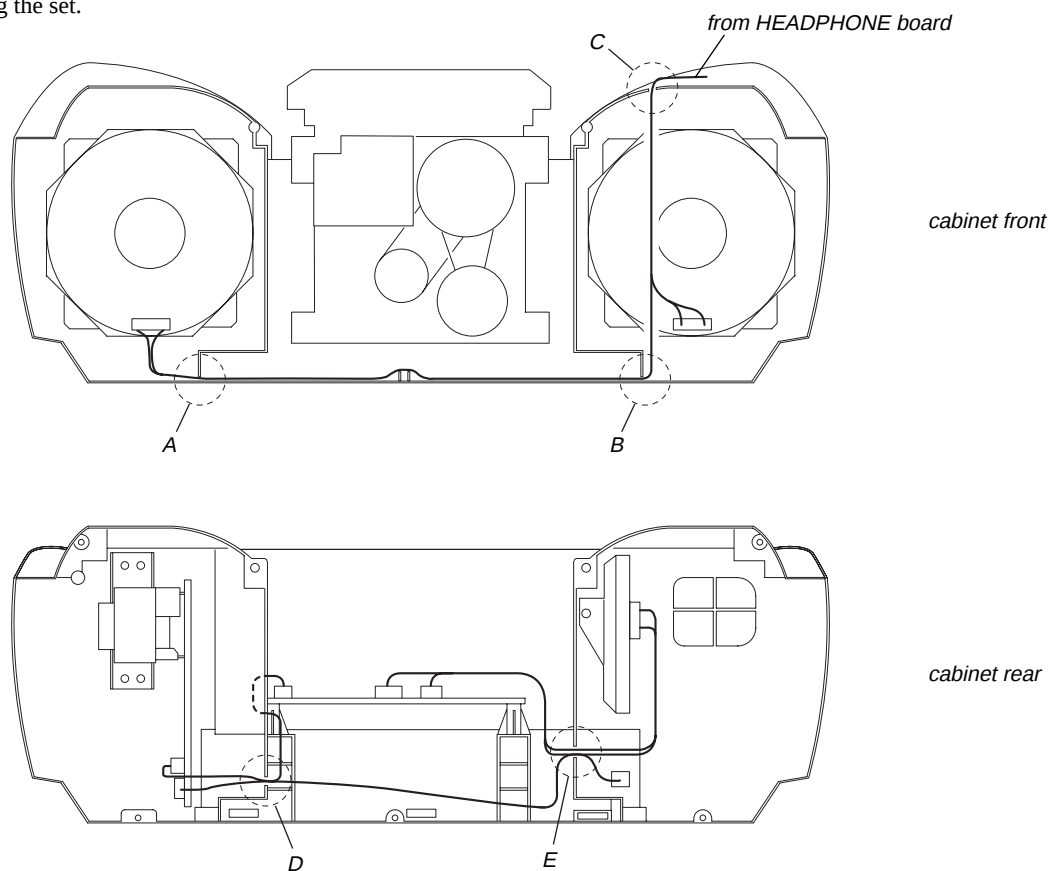


3-2. CABINET (FRONT) ASSY, CABINET (REAR) ASSY

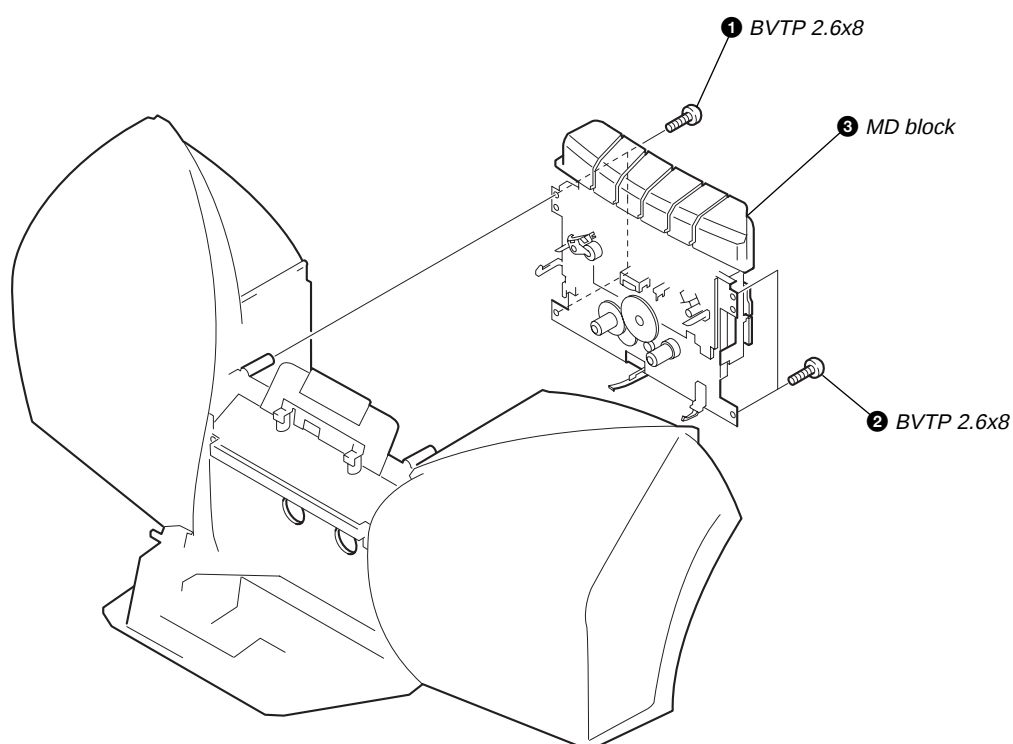


3-3. WIRES

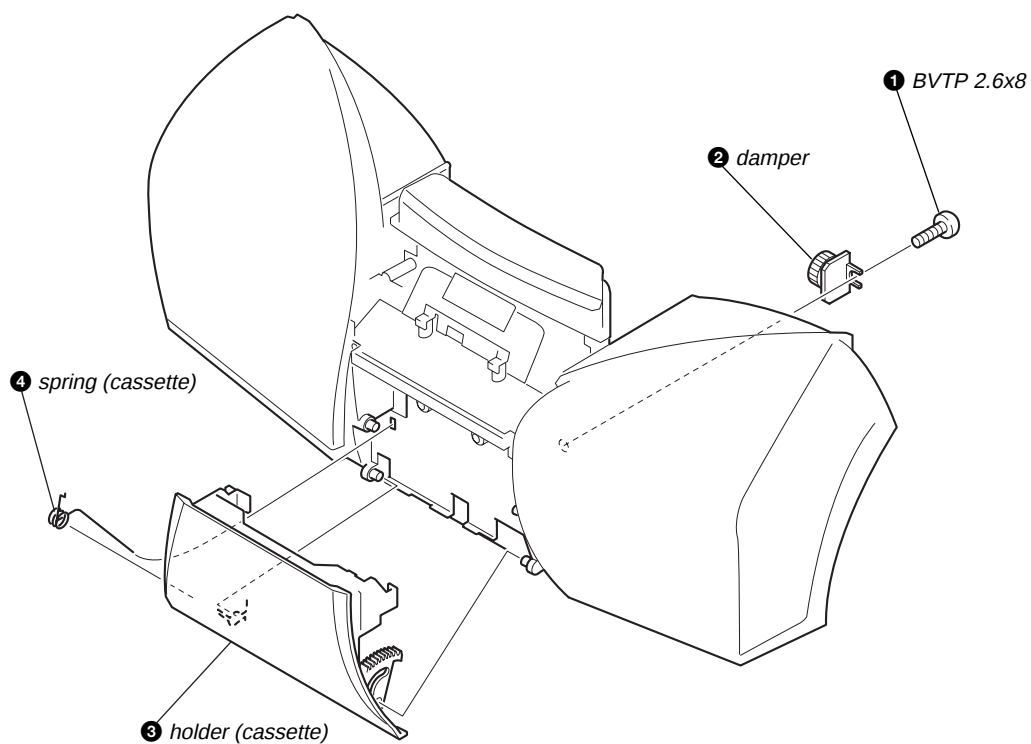
Put flat cable and wires between the cabinets and push them in the grooves located at A to E in the figure to prevent disconnection before assembling the set.



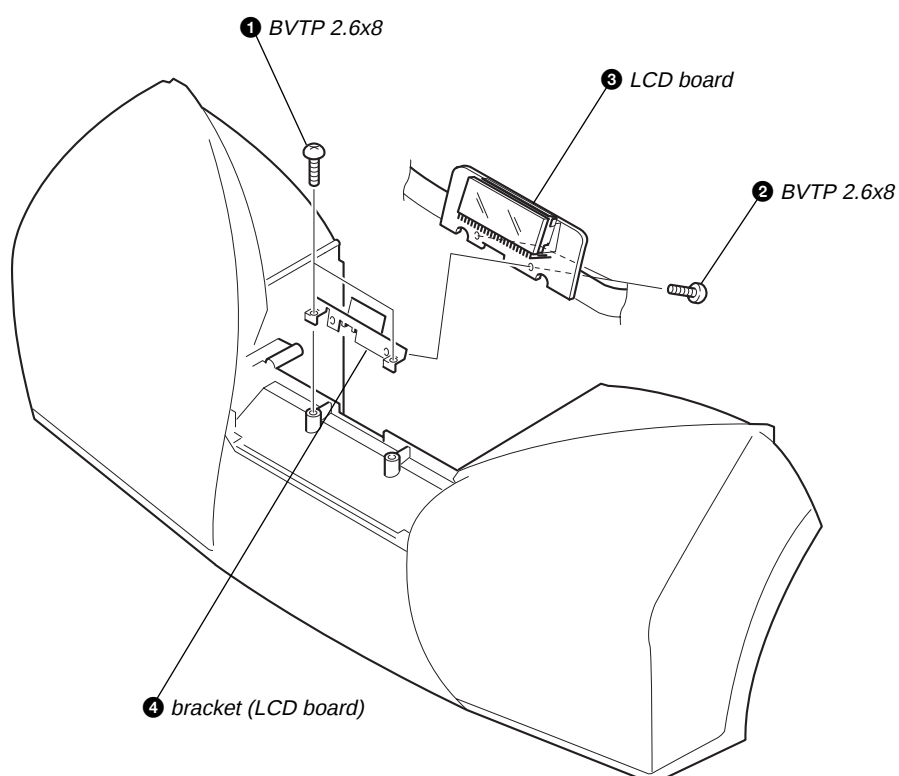
3-4. MD BLOCK



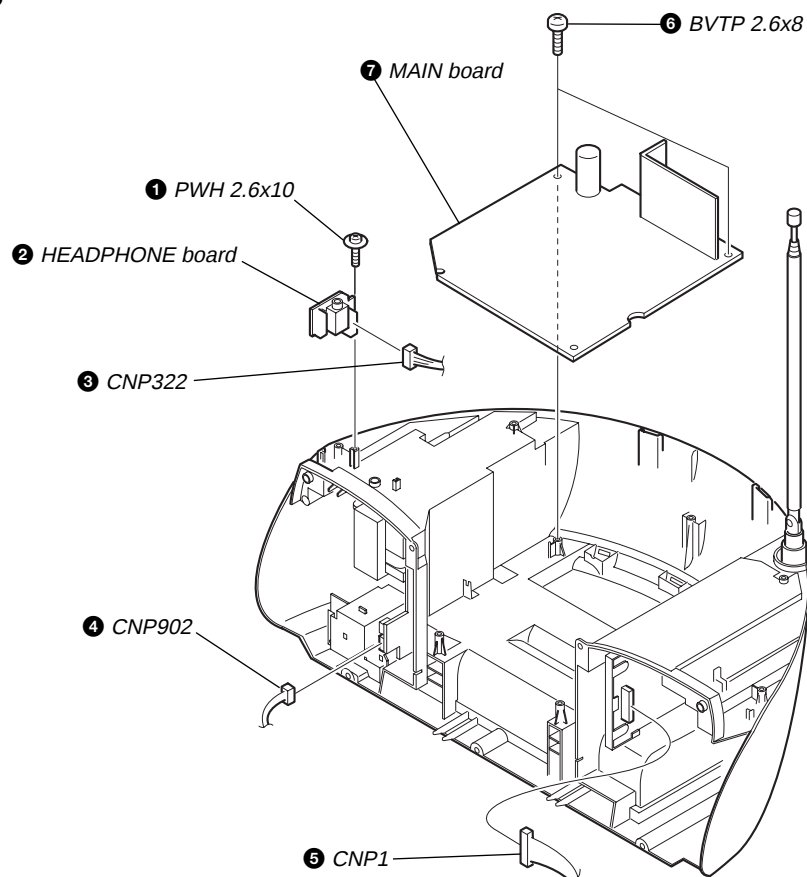
3-5. HOLDER (CASSETTE)



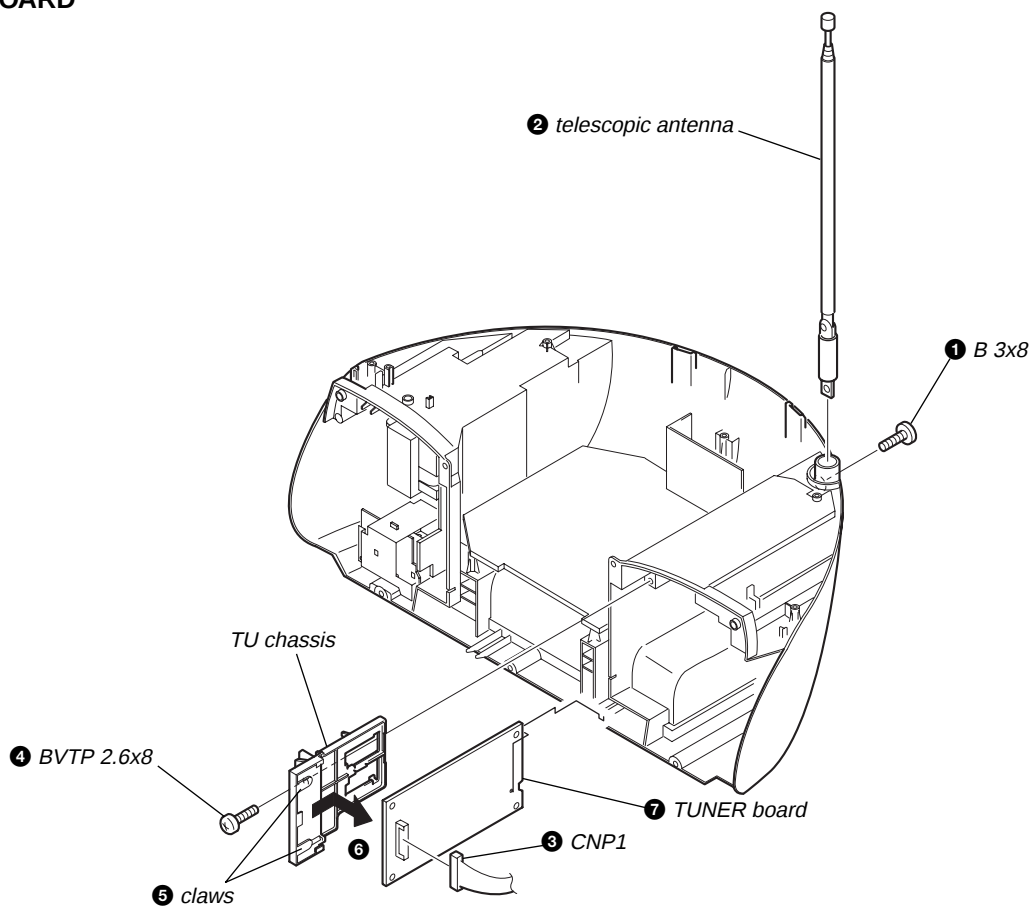
3-6. LCD BOARD



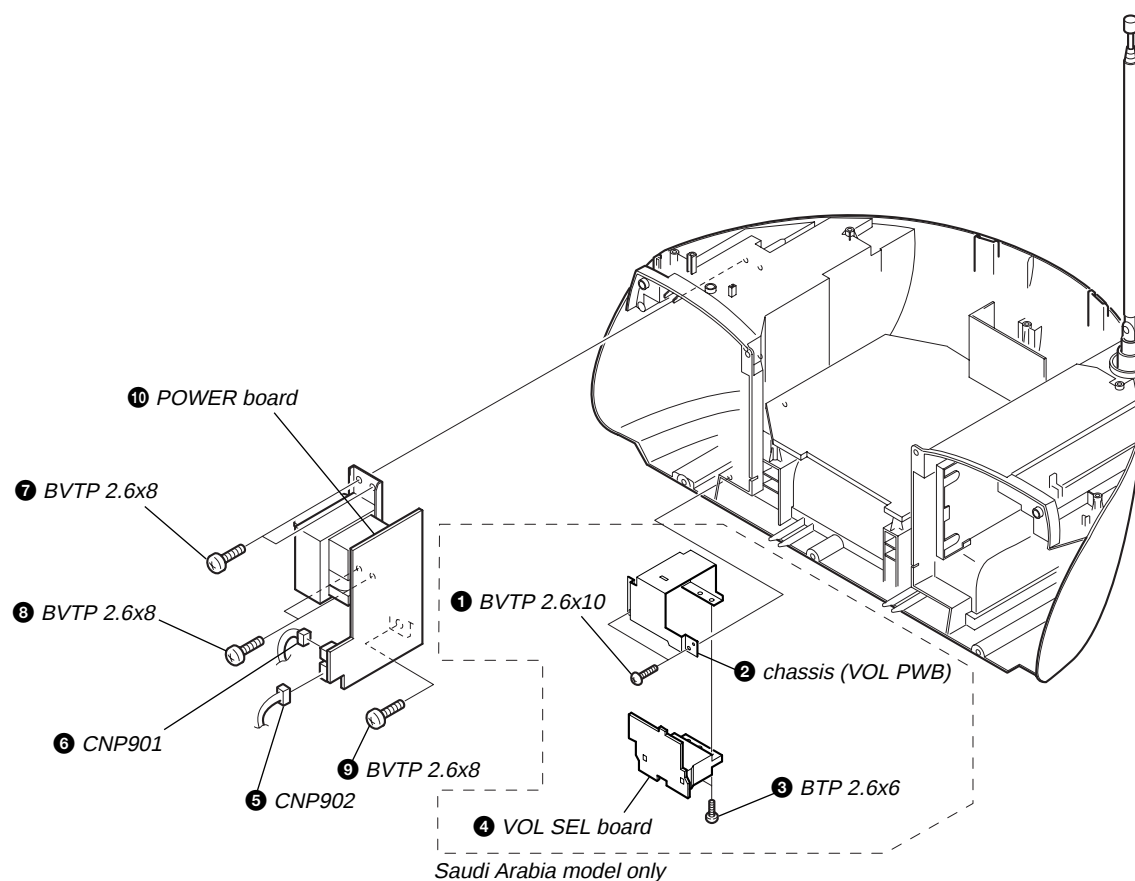
3-7. MAIN BOARD



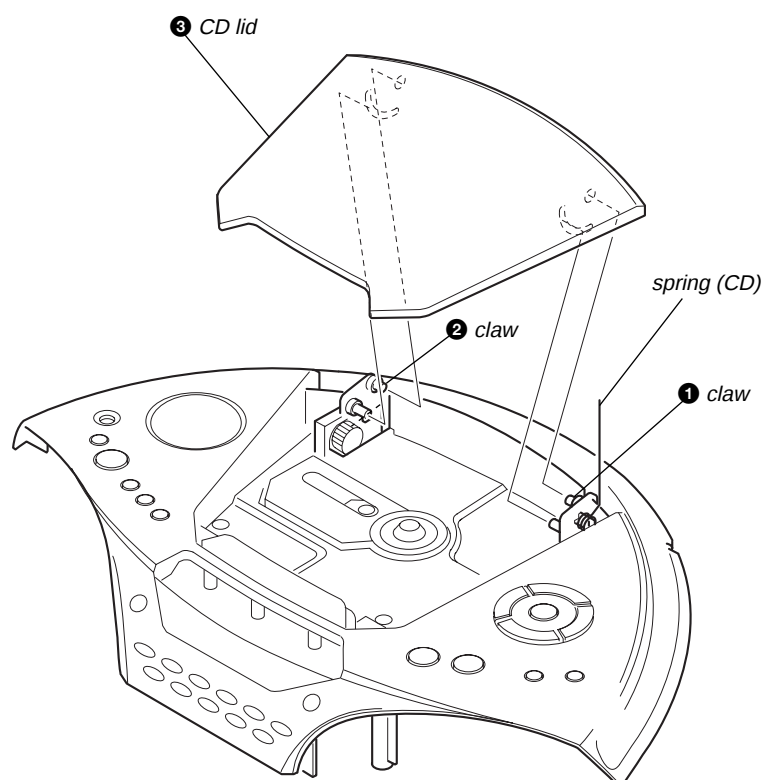
3-8. TUNER BOARD



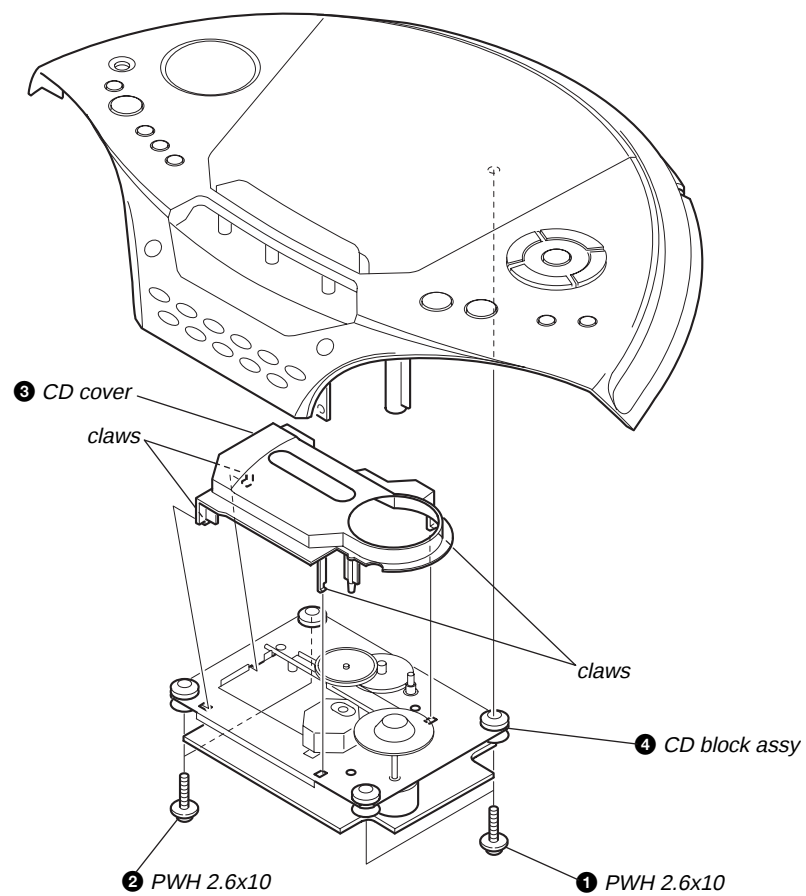
3-9. POWER BOARD, VOL SEL BOARD



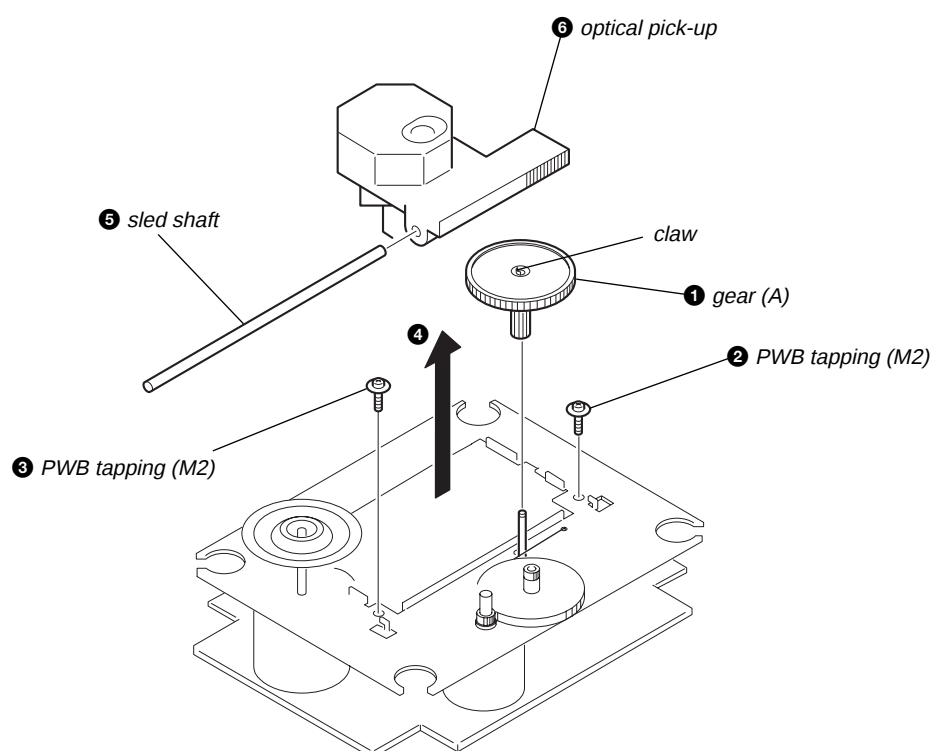
3-10. CD LID

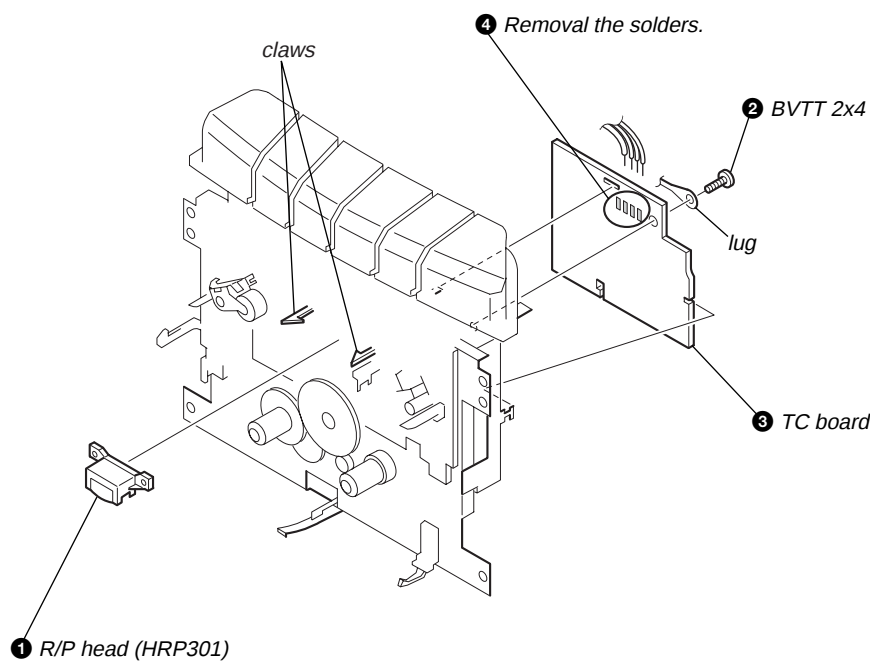
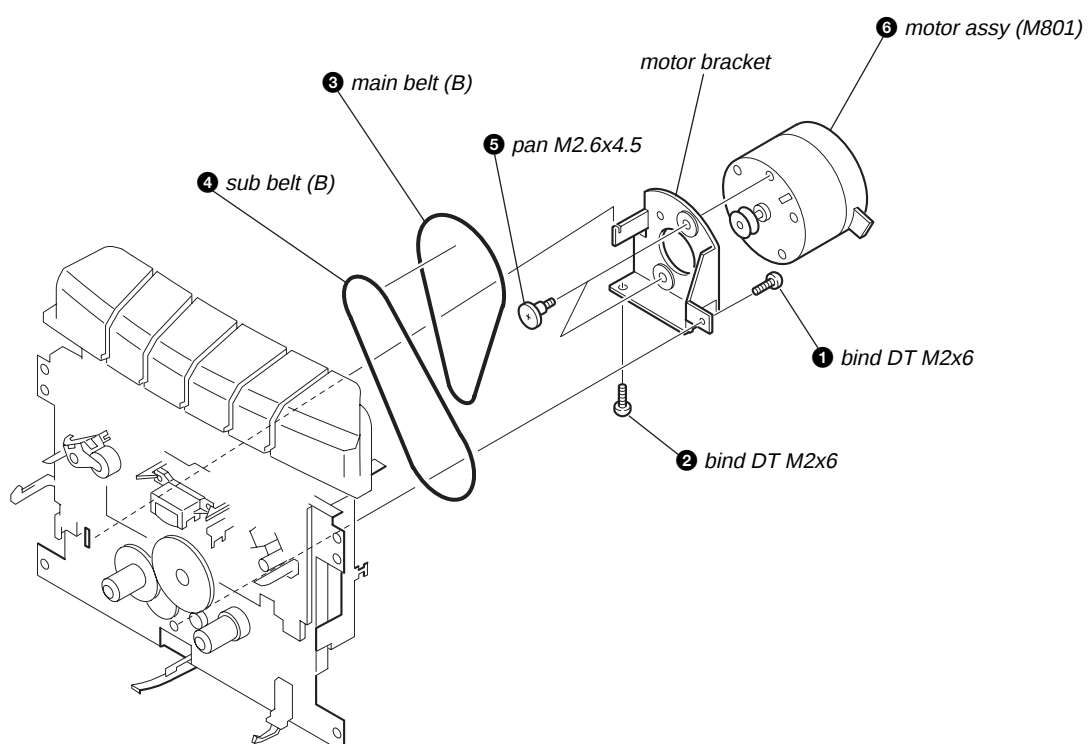


3-11. CD BLOCK ASSY



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)

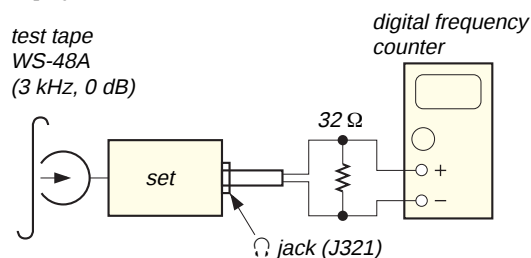
• Test Tape

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

Tape Speed Adjustment

Procedure:

Mode: playback



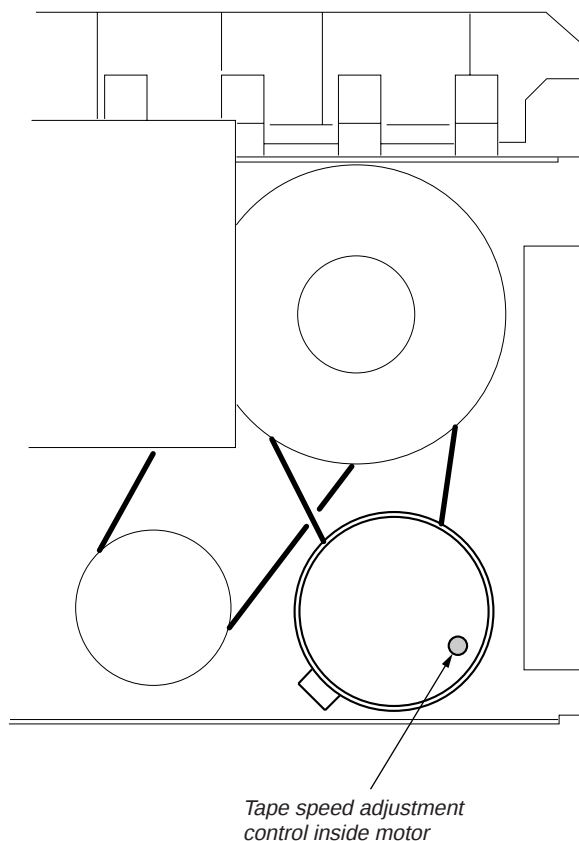
Adjust so that the value on the digital frequency counter is 3,000 Hz.

Specification Value:

Digital frequency counter
2,940 to 3,060 Hz

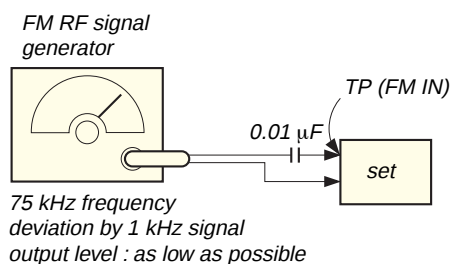
Adjust so that the frequency at the beginning and that at the end of tape winding are between 2,970 to 3,030 Hz.

Adjustment Location:

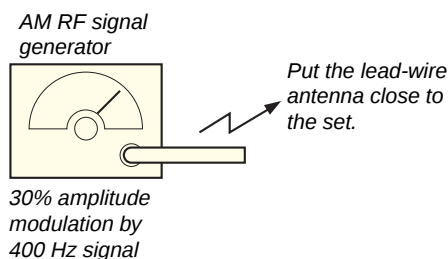
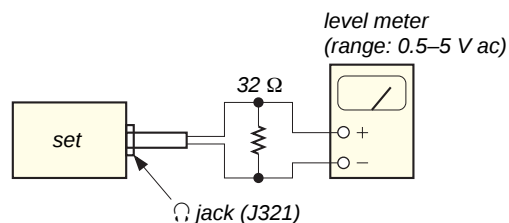
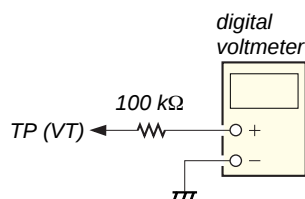


TUNER SECTION **0 dB = 1 μ V**
• FM Section
Setting:

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

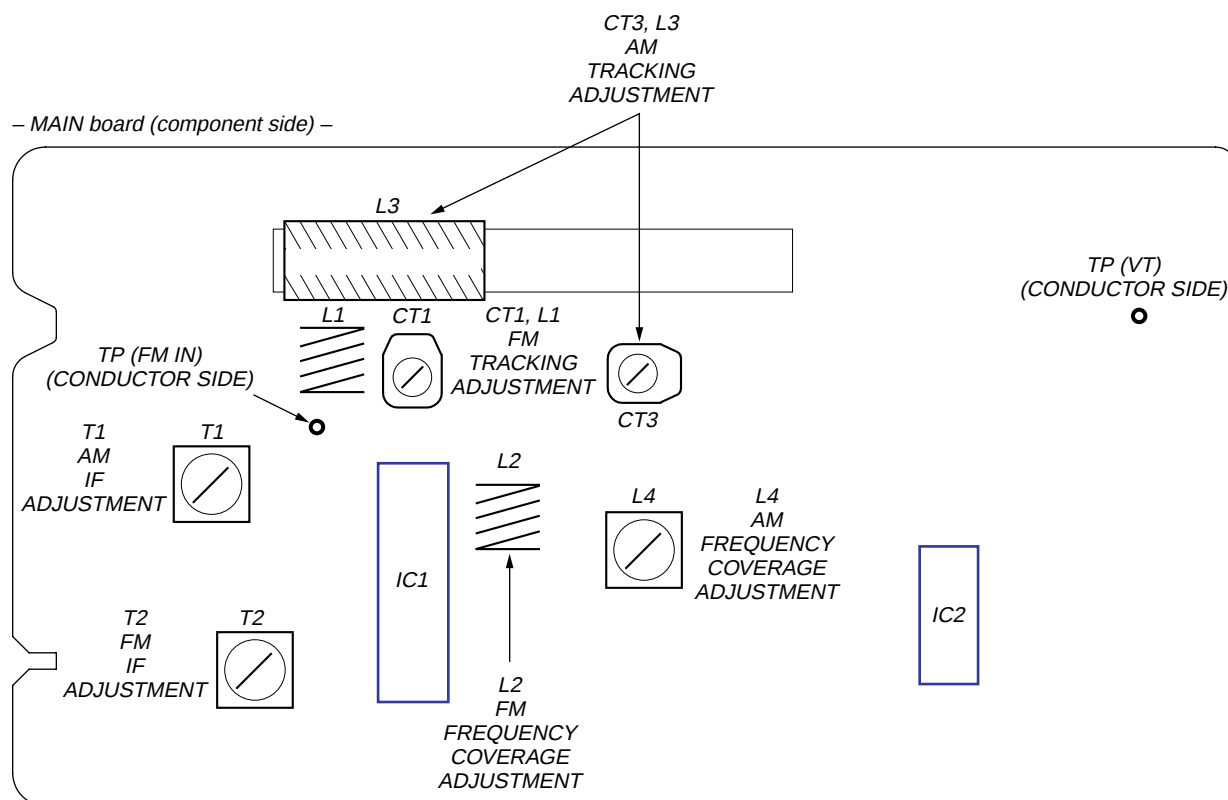
CT3

620 kHz

1,400 kHz

Adjustment Location: See page 16.

Adjustment Location:



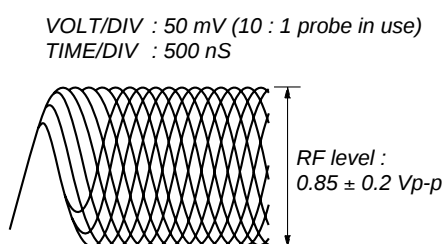
CD SECTION

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

FOCUS BIAS CHECK

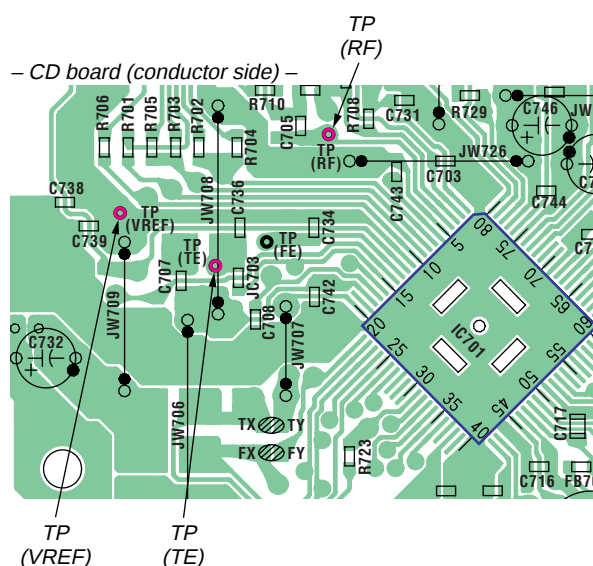
1. Connect the oscilloscope between IC701 pin ④ and pin ⑪ (or TP (RF) and TP (VREF)).
2. Insert the disc (YEDS-18). (Part No. : 3-702-101-01)
3. Press the ► || (CD) button.
4. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)
A good eye pattern means that the diamond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



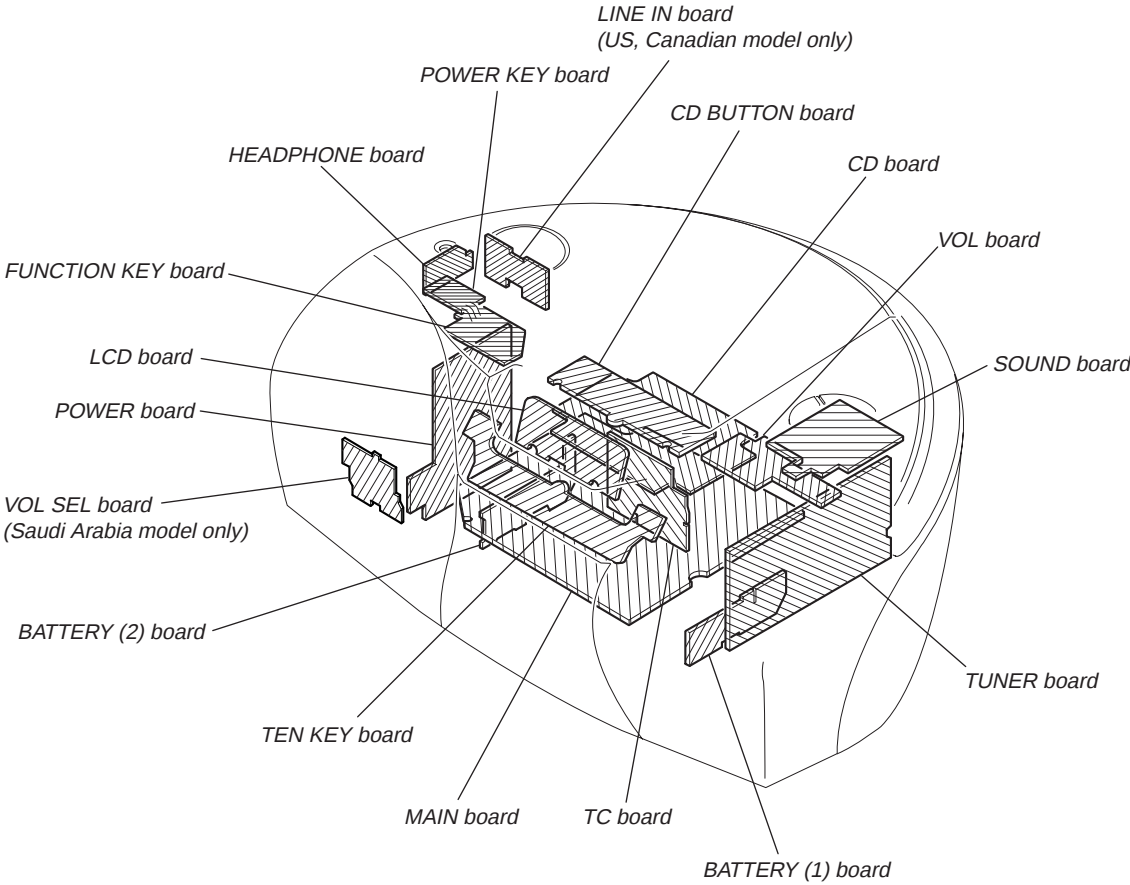
SECTION 6
DIAGRAMS

6-1. IC PIN DESCRIPTION
• IC802 uPD789477GC-A27-8BT (SYSTEM CONTROLLER)

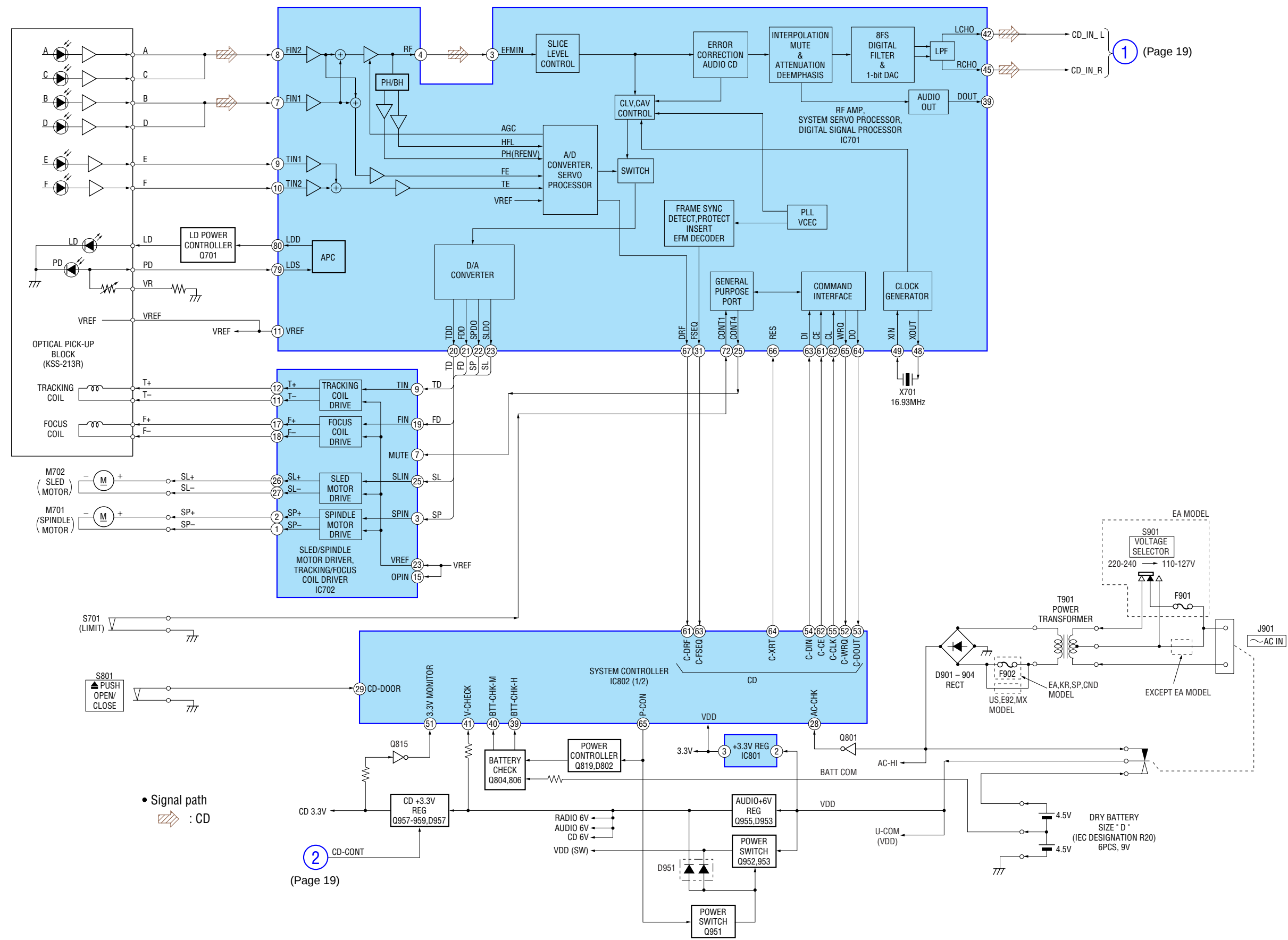
Pin No.	Pin Name	I/O	Pin Description
1, 2	NC	—	Not used. (Open)
3 to 5	VLC2 to 0	I	LCD drive bias voltage input
6 to 9	COM0 to 3	O	LCD drive common output
10 to 26	S0 to 16	O	LCD drive segment output
27	REC	I	Tape record signal input H: REC
28	AC-CHK	I	AC power supply detection signal input L: AC in
29	CD-DOOR	I	CD door open/close switch input L: Close
30	S-ROCK	O	ROCK LED control signal output
31	S-POP	O	POP LED control signal output
32	S-JAZZ	O	JAZZ LED control signal output
33	S-VOCAL	O	VOCAL LED control signal output
34	LINE IN	O	LINE IN control signal output
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	V CHECK	I	Voltage check input
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	3.3V MONITOR	I	3.3V MONITOR signal input
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

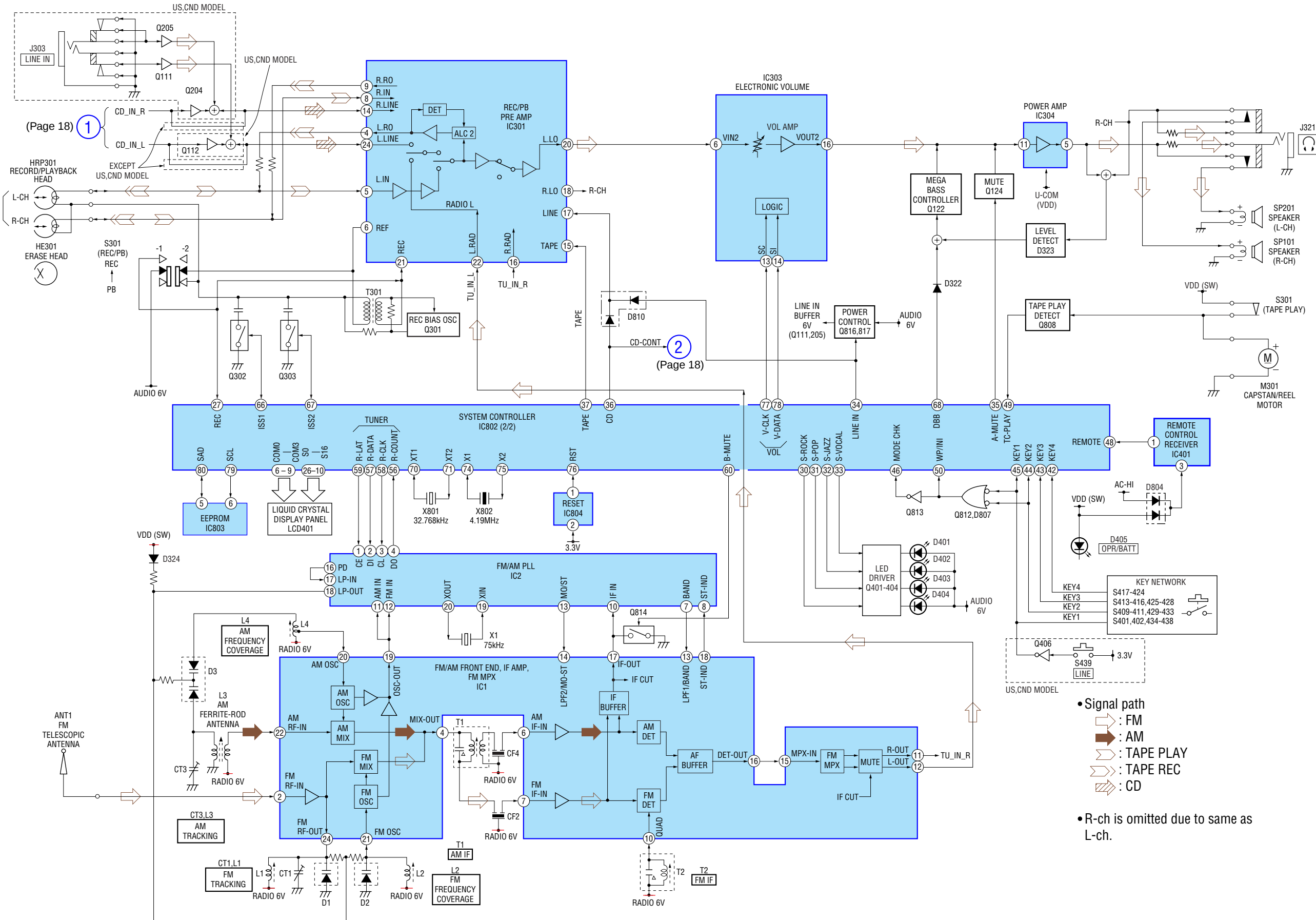
6-2. CIRCUIT BOARDS LOCATION



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 $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- : panel designation.

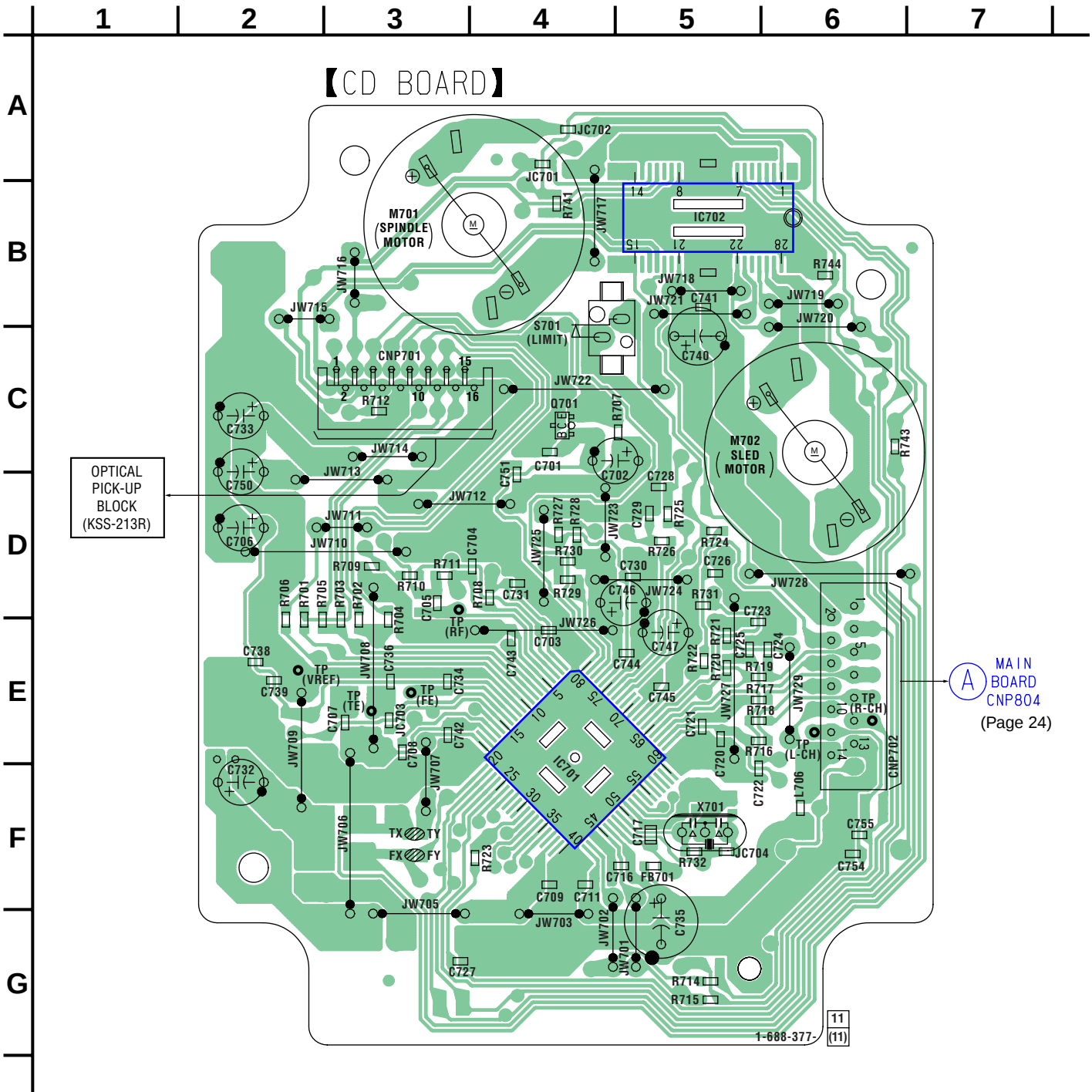
Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.	Note: Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
---	--

- : B+ Line.
- : 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 production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - : FM
 - : AM
 - : PB
 - : REC
 - : CD
- Abbreviation
 - CND : Canadian model.
 - E92 : AC 120V area in E model.
 - MX : Mexican model.
 - EA : AC 110-127V/220-240V are in E model.
 - KR : Korean model.
 - SP : Singapore model.

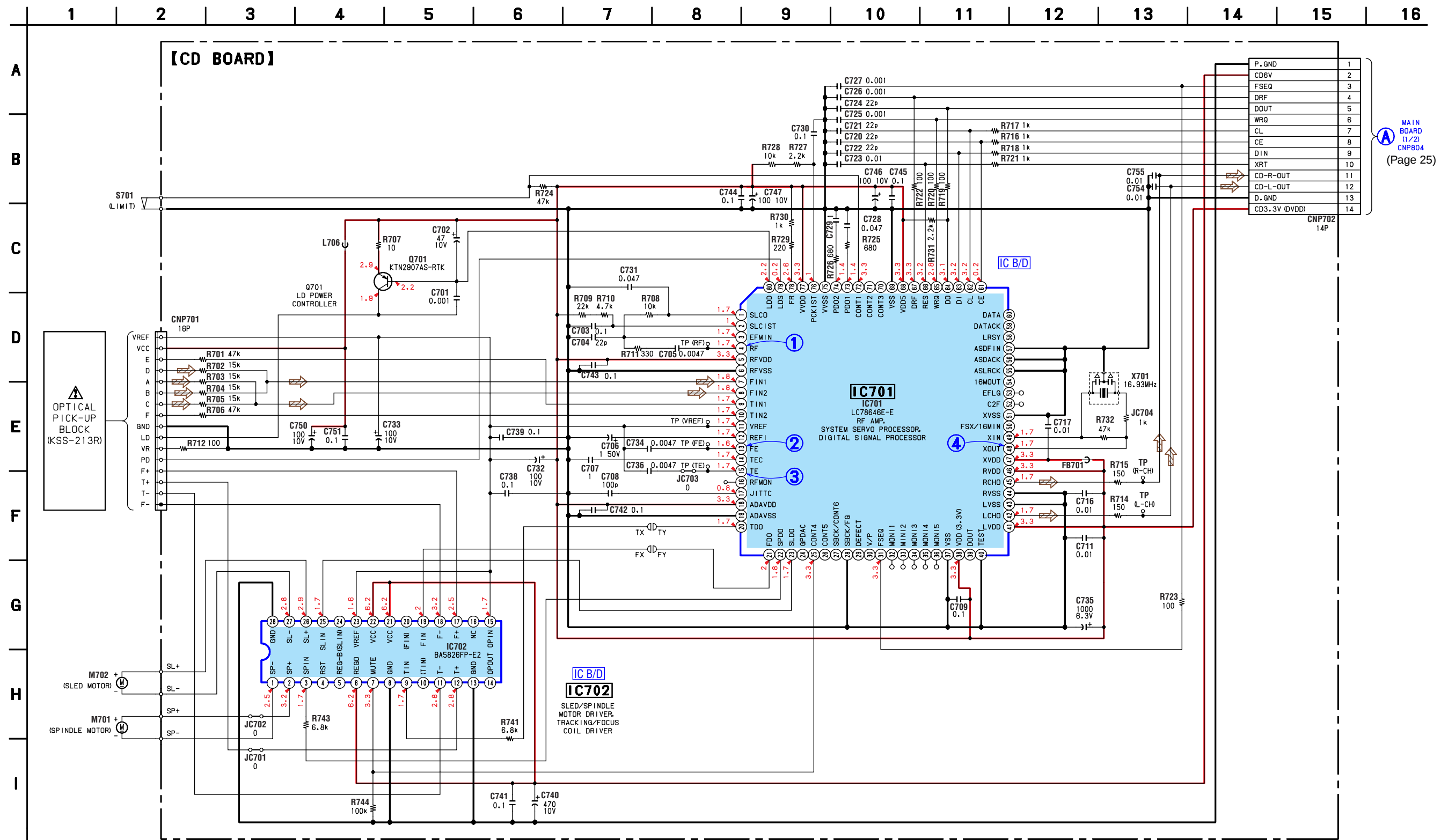
Common Note on Printed Wiring Boards:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- Δ : internal component.
- : Pattern from the side which enables seeing.
- Abbreviation
 - CND : Canadian model.
 - E92 : AC 120V area in E model.
 - MX : Mexican model.
 - EA : AC 110-127V/220-240V are in E model.
 - KR : Korean model.
 - SP : Singapore model.

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

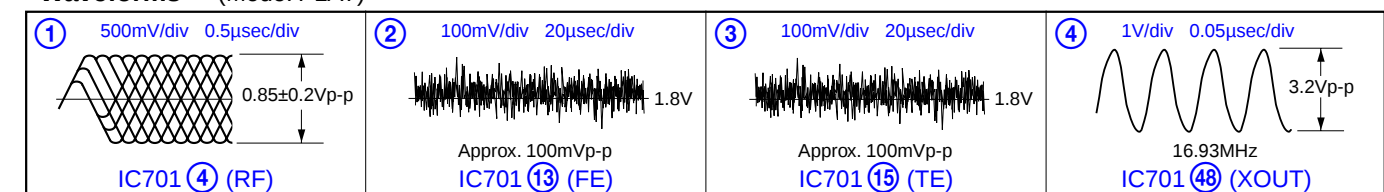


6-6. SCHEMATIC DIAGRAM — CD SECTION — • Refer to page 20 for Common Note on Schematic Diagrams and page 33 for IC Block Diagrams.

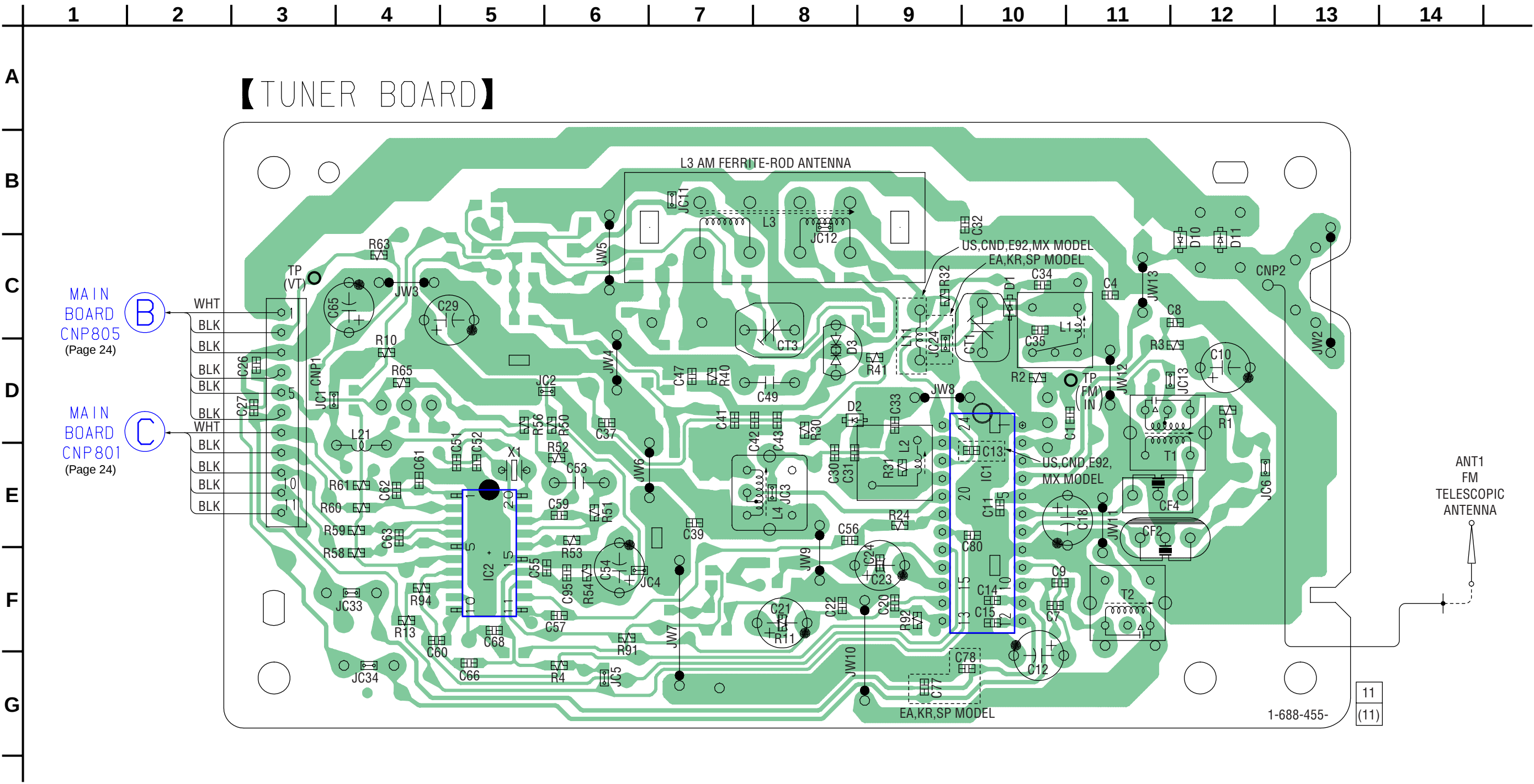


- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : CD PLAY

- **Waveforms** (Mode: PLAY)



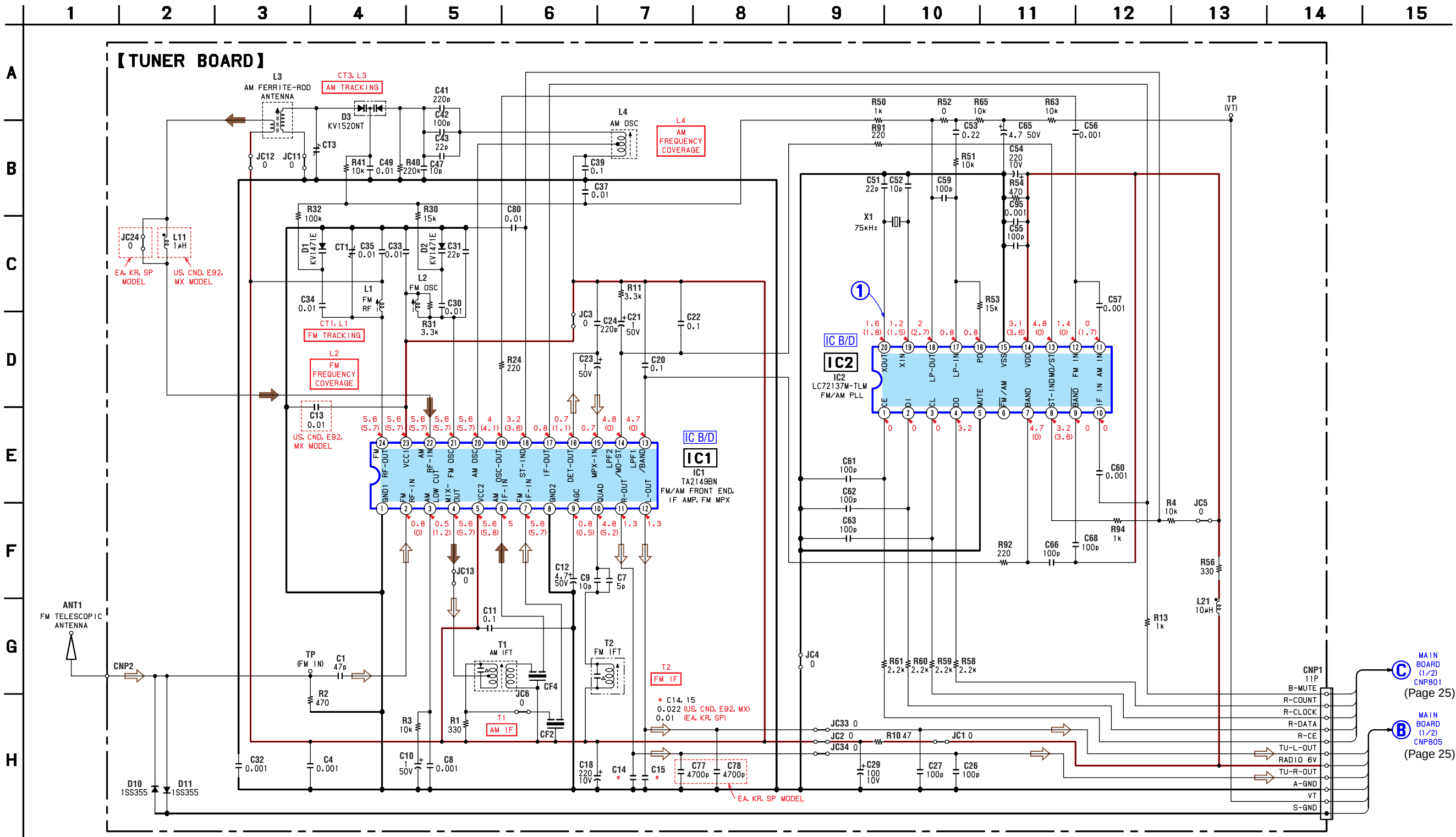
6-7. PRINTED WIRING BOARD — TUNER SECTION — • Refer to page 17 for Circuit Boards Location and page 20 for Common Note on Printed Wiring Boards.



• Semiconductor Location

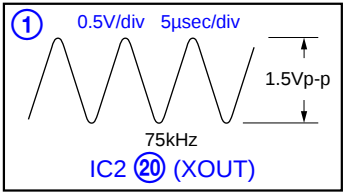
Ref. No.	Location
D1	C-10
D2	D-8
D3	D-8
D10	B-12
D11	B-12
IC1	E-10
IC2	E-5

6-8. SCHEMATIC DIAGRAM — TUNER SECTION — • Refer to page 20 for Common Note on Schematic Diagrams and page 34 for IC Block Diagrams.



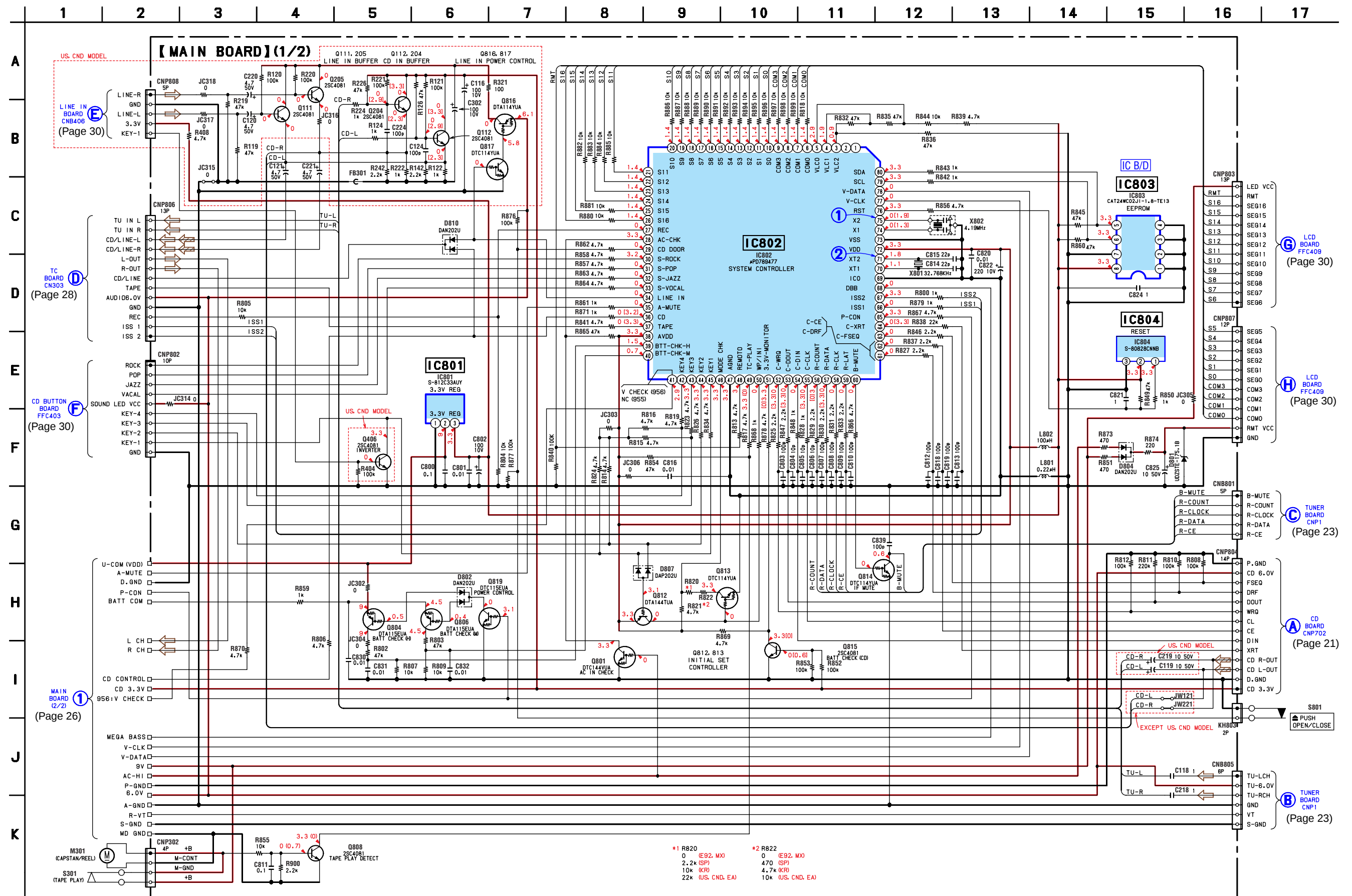
• Voltage and waveforms are dc with respect to ground
under no-signal (detuned) conditions.
no mark : FM
() : AM

• Waveform





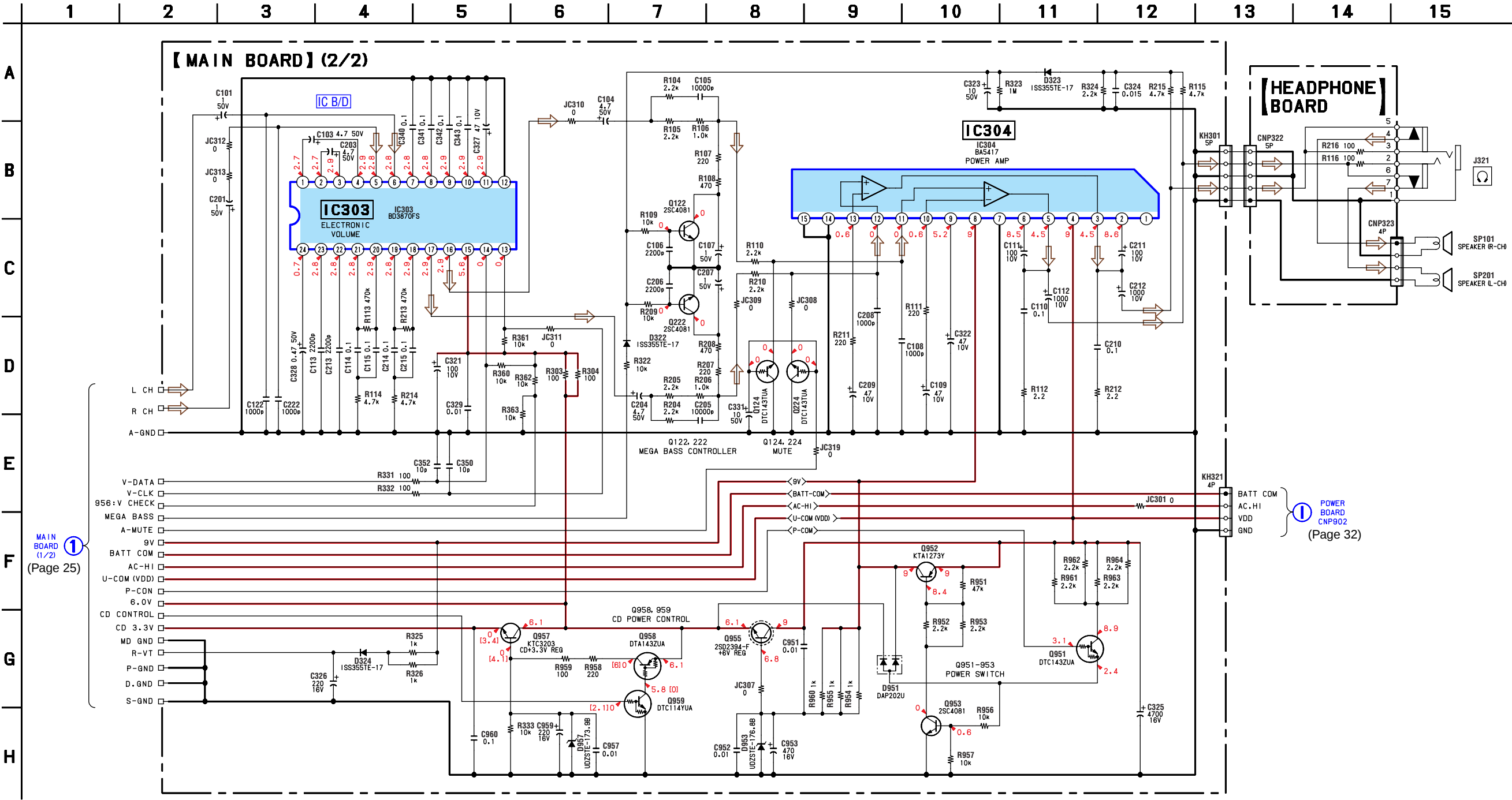
6-10. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — • Refer to page 20 for Common Note on Schematic Diagrams, page 24 for Waveforms and page 35 for IC Block Diagrams.



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

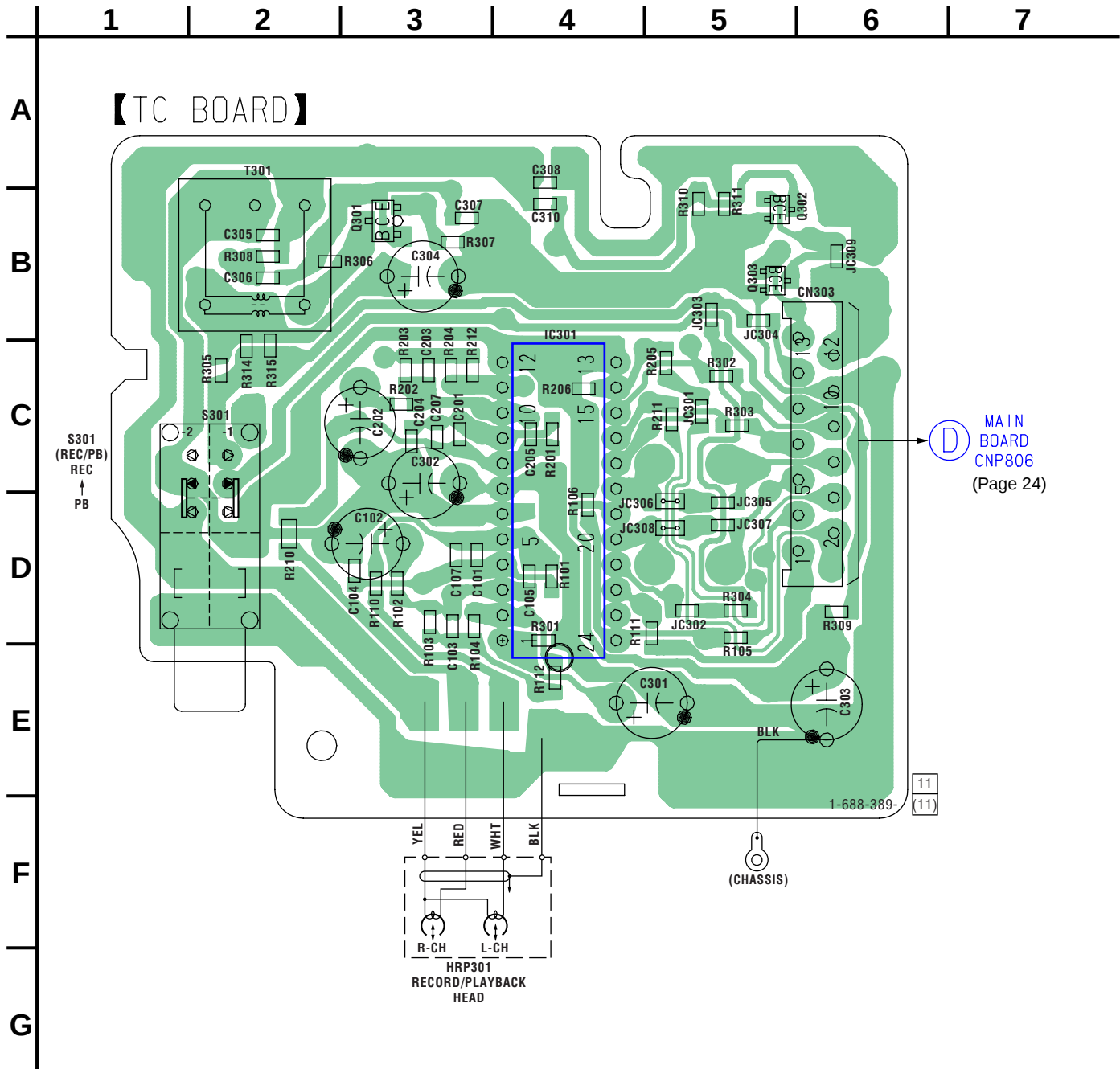
no mark : FM
 () : PB
 < > : REC
 [] : CD PLAY

6-11. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 20 for Common Note on Schematic Diagrams and page 35 for IC Block Diagrams.

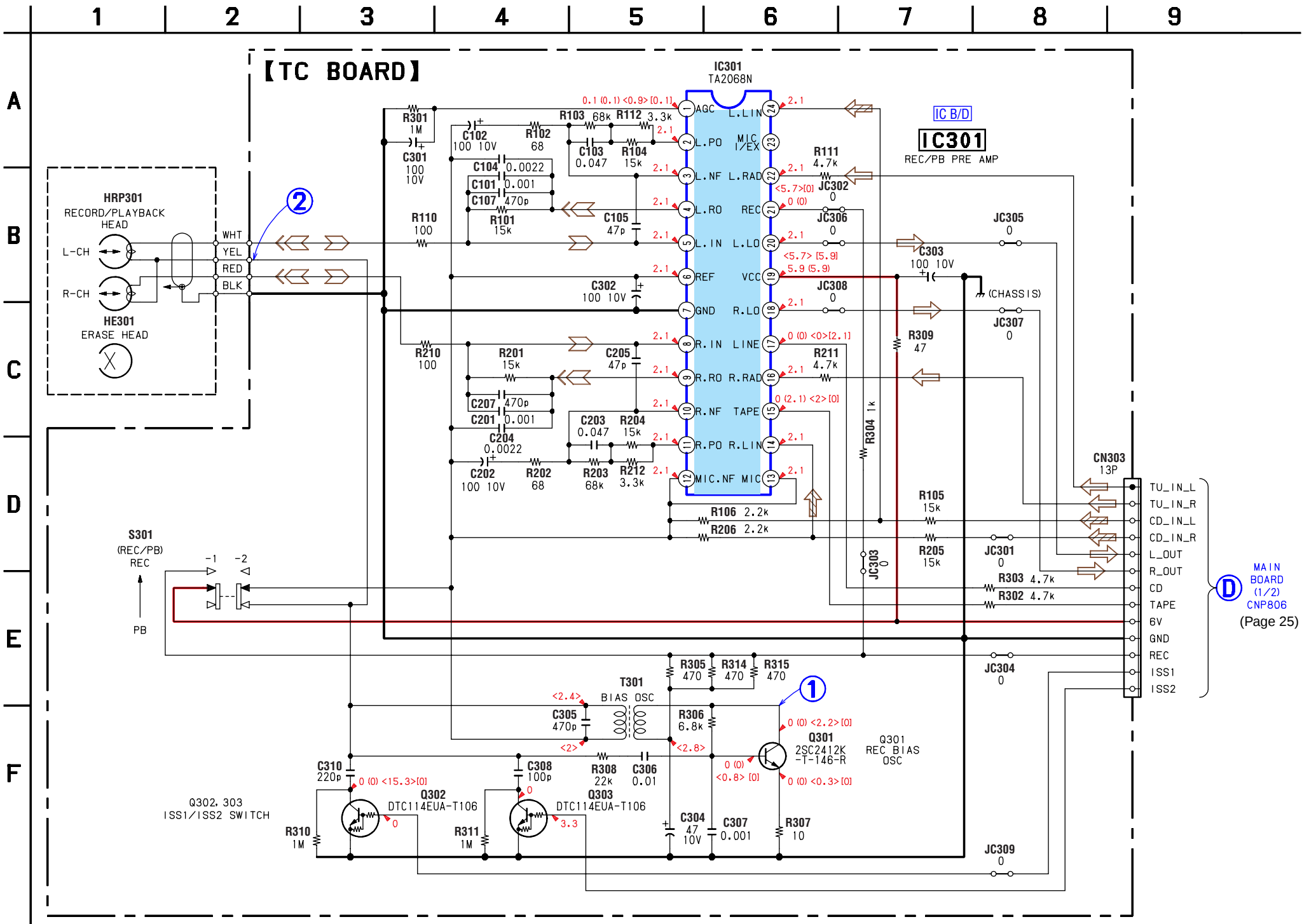


• Voltage is dc with respect to ground under no-signal (detuned) condition.
no mark : FM
() : PB
< > : REC
[] : CD PLAY

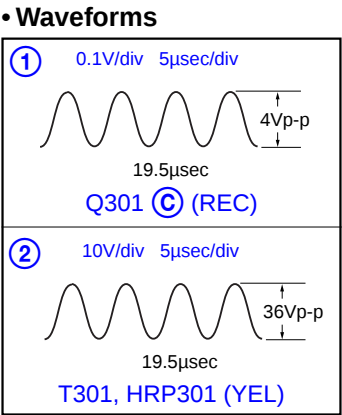
6-12. PRINTED WIRING BOARD — TC SECTION — • Refer to page 17 for Circuit Boards Location and page 20 for Common Note on Printed Wiring Boards.



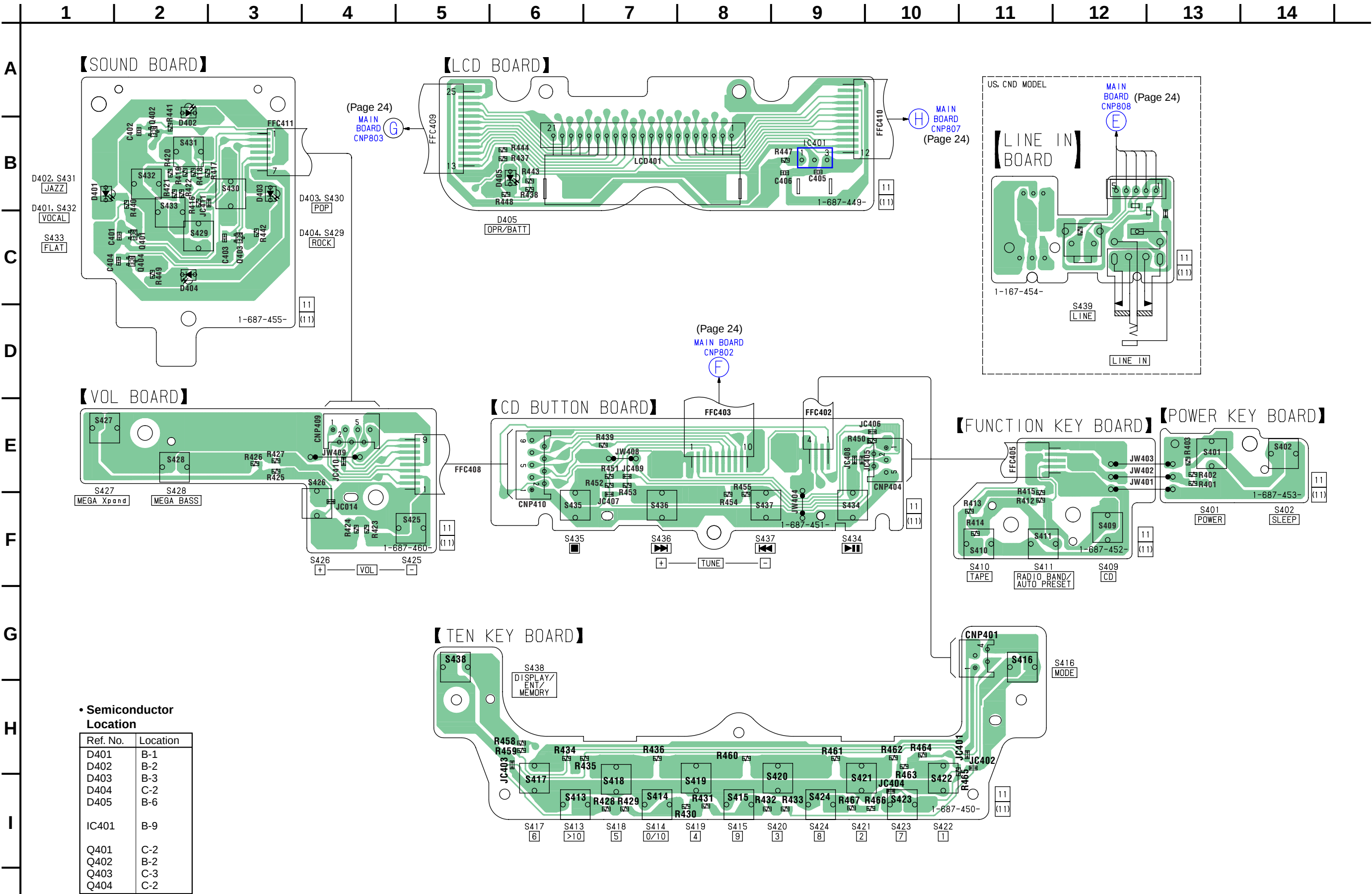
6-13. SCHEMATIC DIAGRAM — TC SECTION — • Refer to page 20 for Common Note on Schematic Diagrams and page 35 for IC Block Diagrams.



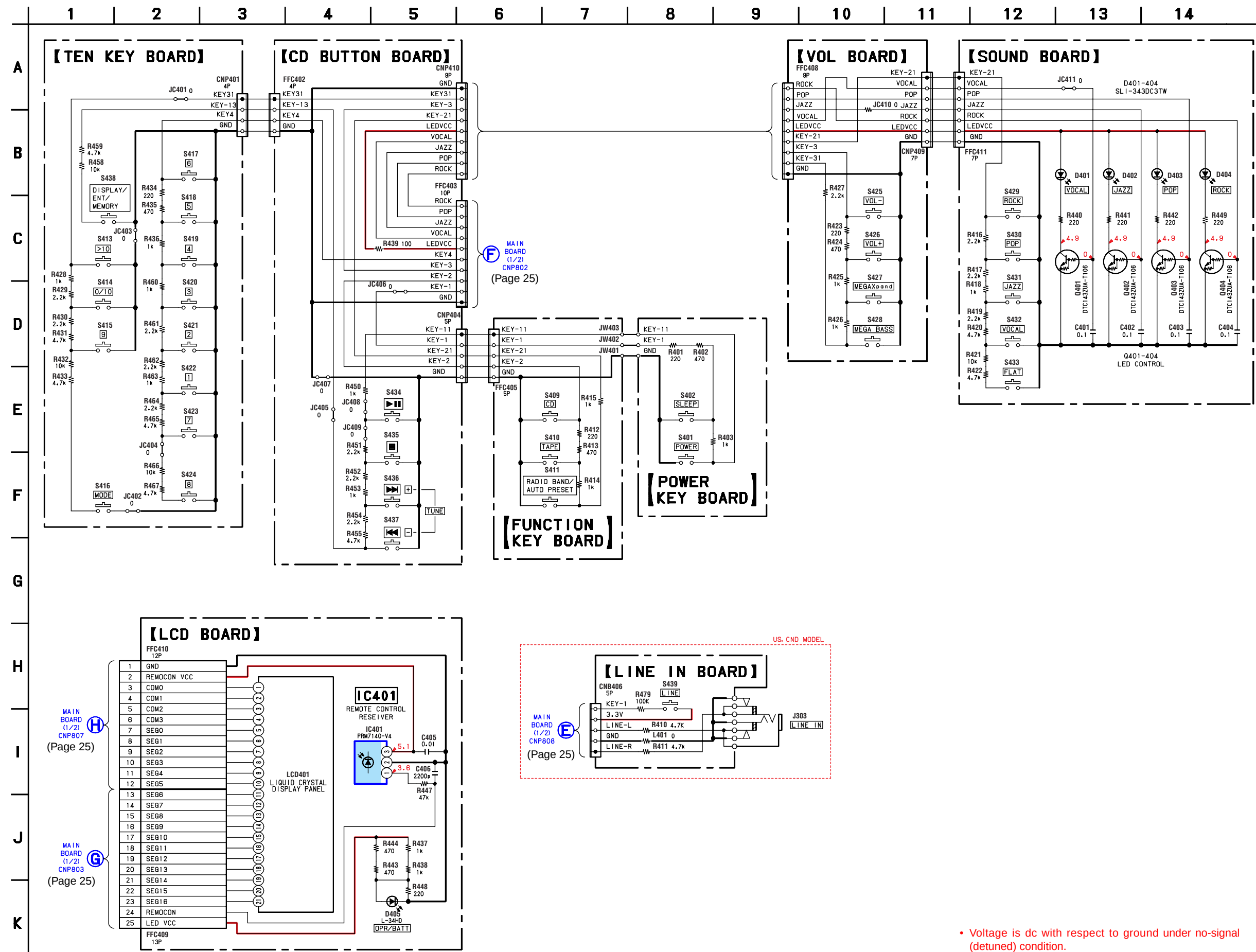
• Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
() : PB
< > : REC
[] : CD PLAY



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.

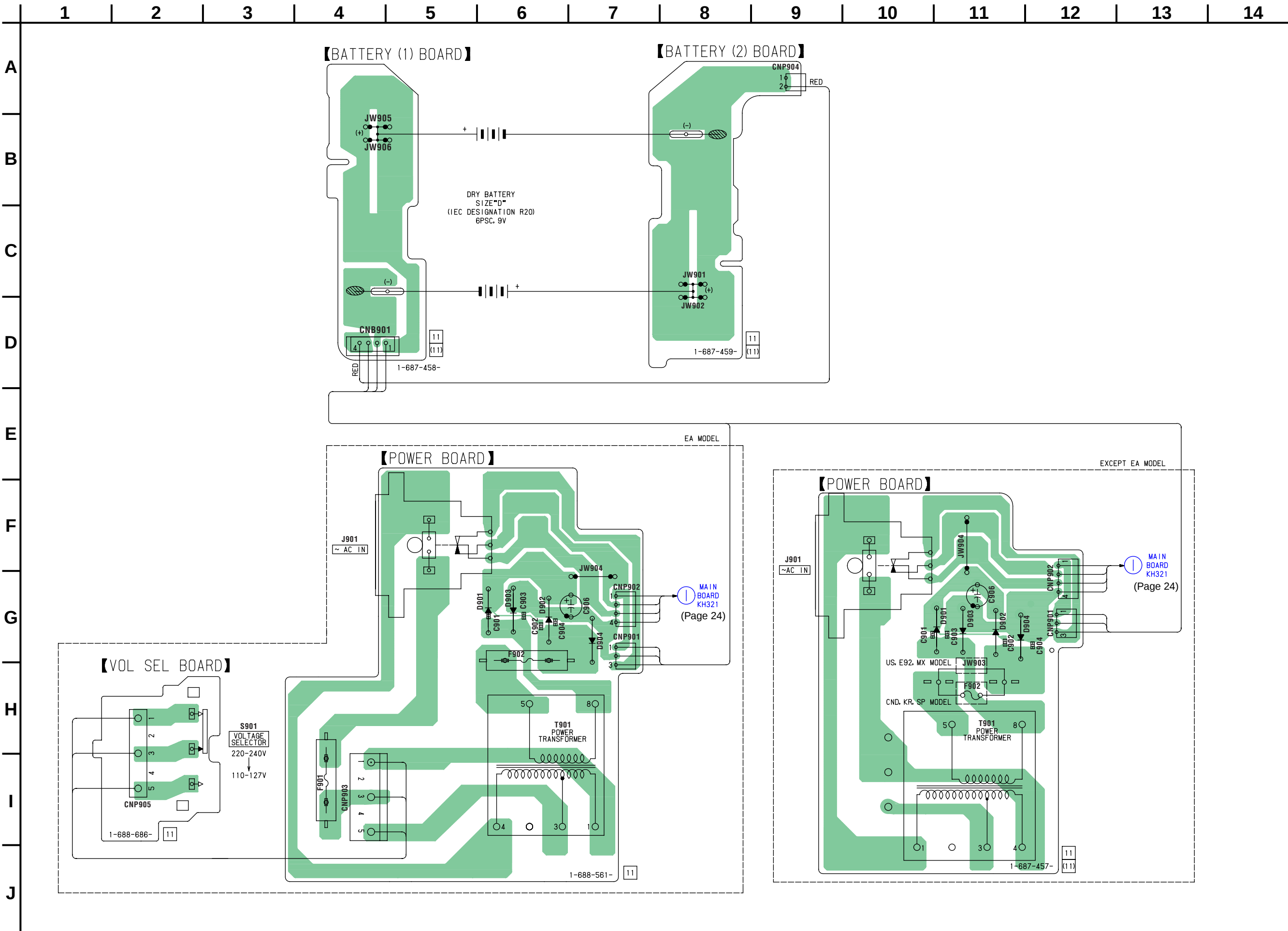


6-15. SCHEMATIC DIAGRAM — CONTROL SECTION — • Refer to page 20 for Common Note on Schematic Diagrams.

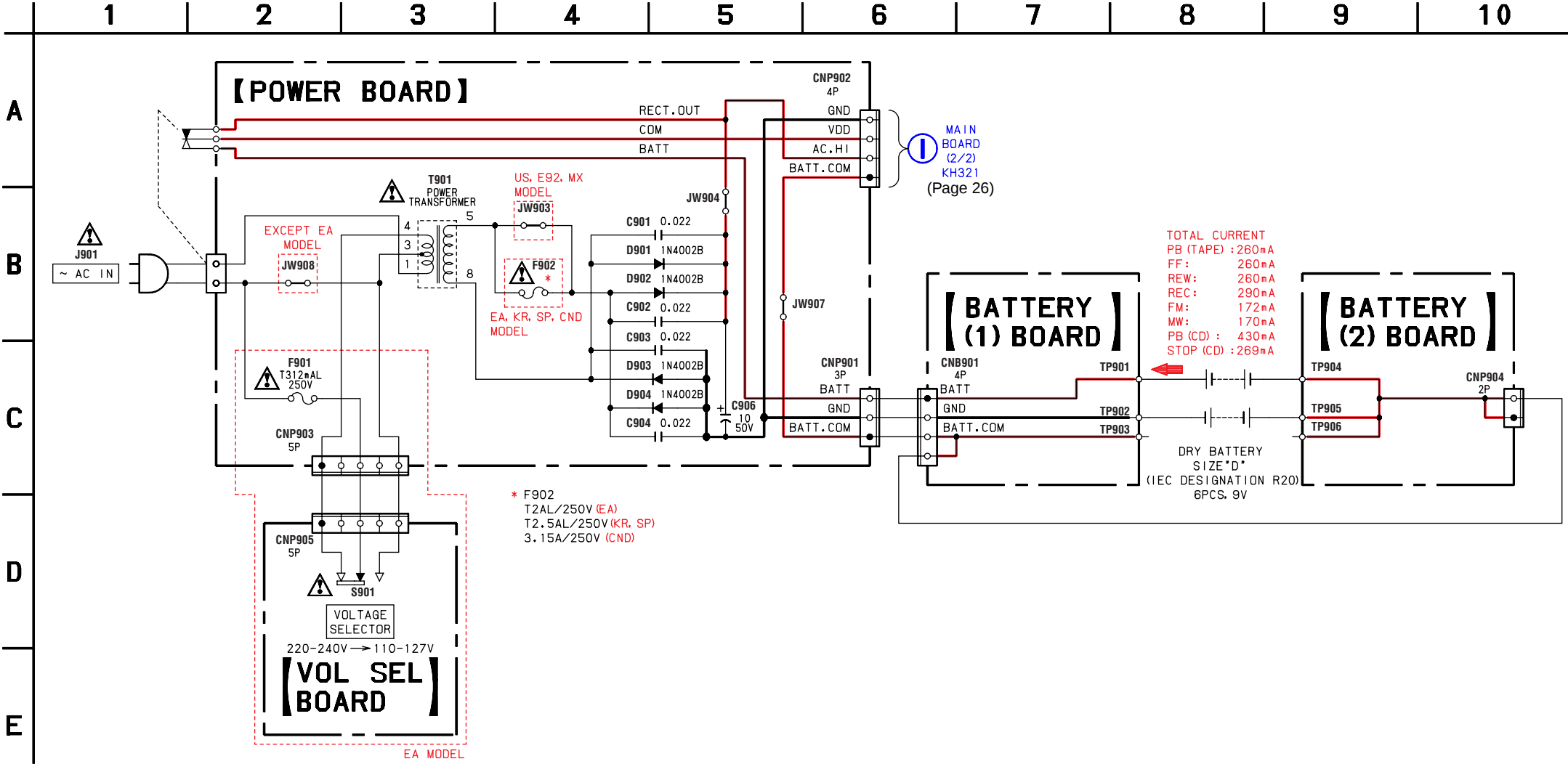


- Voltage is dc with respect to ground under no-signal (detuned) condition.
no mark : FM

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



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

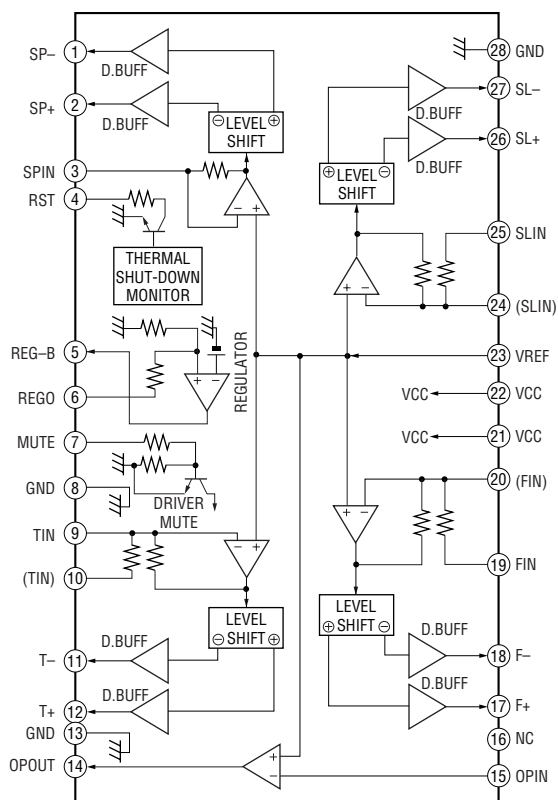


The diagram illustrates the internal architecture of the TDA1941 audio IC, showing the flow of signals from input pins through various processing blocks to output pins. Key functional blocks include:

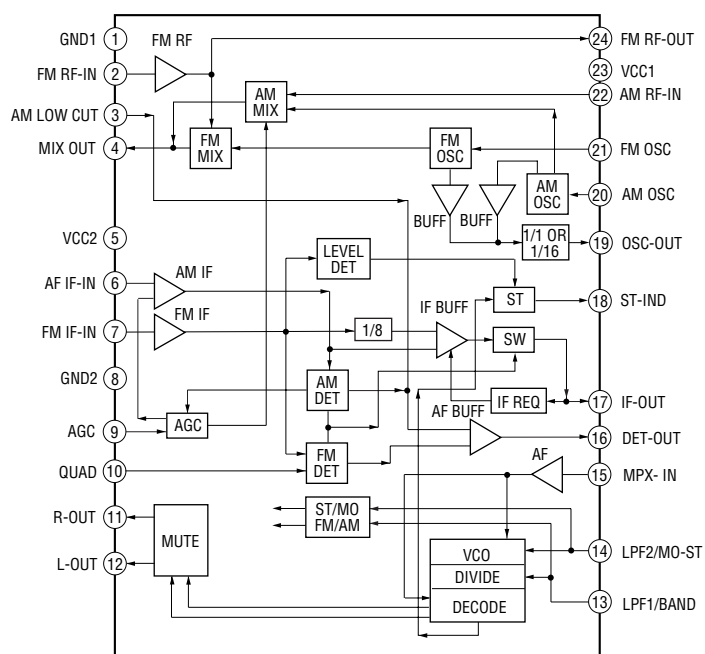
- Input Section:** Receives signals like FIN1, FIN2, TIN1, TIN2, and REF1. It includes a LEVEL SET block and a PLL VCEC (Phase-Locked Loop Voltage-Controlled Oscillator) block.
- Processing Section:** Features a MIXER, AGC (Automatic Gain Control), EQ (Equalizer), and various filters (LPF, HPF). It also includes a TRACK JUMP and APC (Automatic Power Control) block.
- Control Section:** Contains a SERVO PROCESSOR, JITTER DETECT, and CLV/CAV CONTROL (Constant Linear/Constant Angular Velocity Control) block.
- Output Section:** Includes an AUDIO OUT block, INTERPOLATION MUTE, and ATTENUATION/DEEMPHASIS block.
- Monitoring and Error Correction:** Features a MONITOR SIGNAL SELECTOR, ERROR CORRECTION AUDIO CD, and SUBCODE DECODE CRC block.
- Interface and Control:** Includes a COMMAND INTERFACE, GENERAL PURPOSE PORTS, and an 8FS DIGITAL FILTER.

The diagram also shows the connection of various pins to these blocks, including power supply pins (VDD, VSS, LDD, LDS), control pins (CONT1-6), and data pins (DATA, DACK, LRSY, etc.).

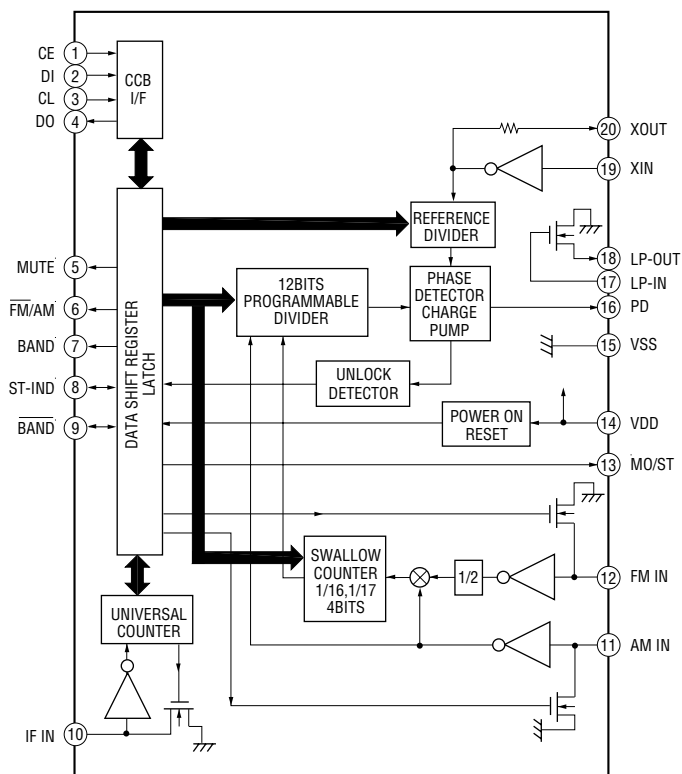
IC702 BA5826FP-E2 (CD Board)



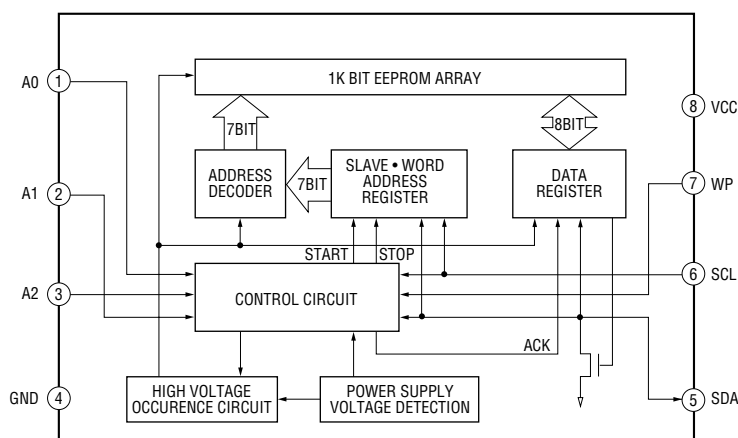
IC1 TA2149BN (TUNER Board)



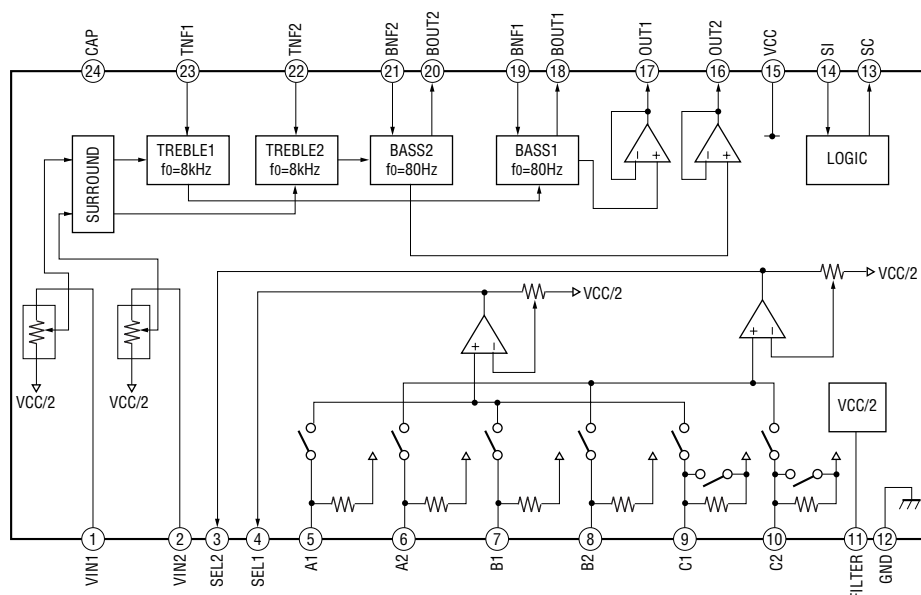
IC2 LC72137M-TLM (TUNER Board)



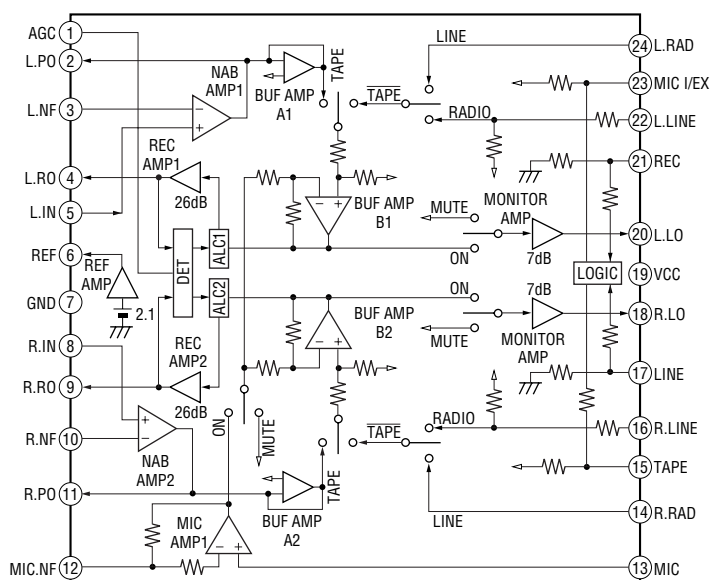
IC803 CAT24WC02JI-1.8-TE13 (MAIN Board)



IC303 BD3870FS (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
EA : AC 110-127V/220-240V area in E model
KR : Korean model
SP : Singapore model

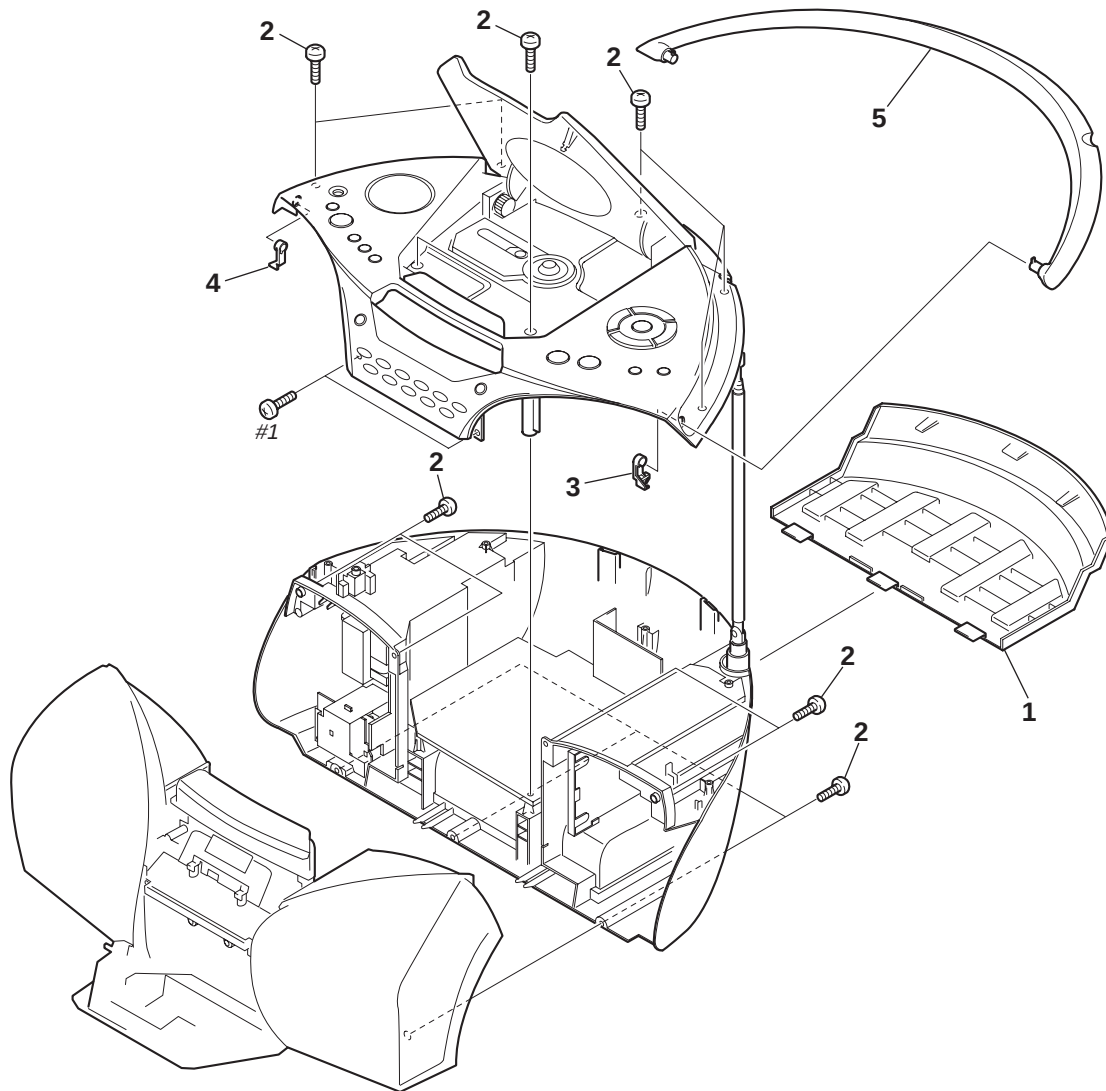
- Color Indication of Appearance Parts
Example :
 KNOB, BALANCE (WHITE) ... (RED)

↑
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.

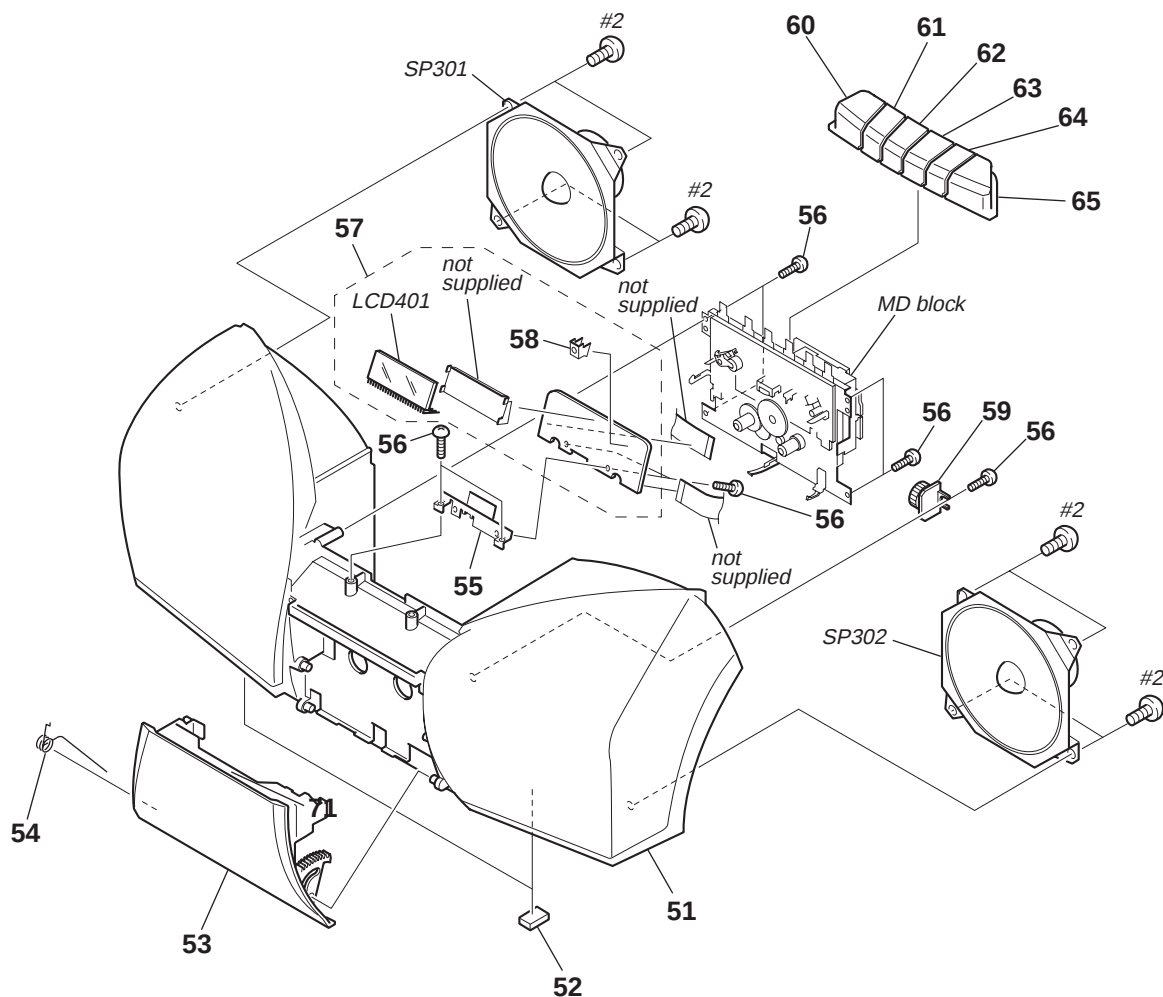
Les composants identifiés par une
marque  sont critiques pour
la sécurité.
Ne les remplacer que par une pièce
portant le numéro spécifié.

7-1. MAIN SECTION



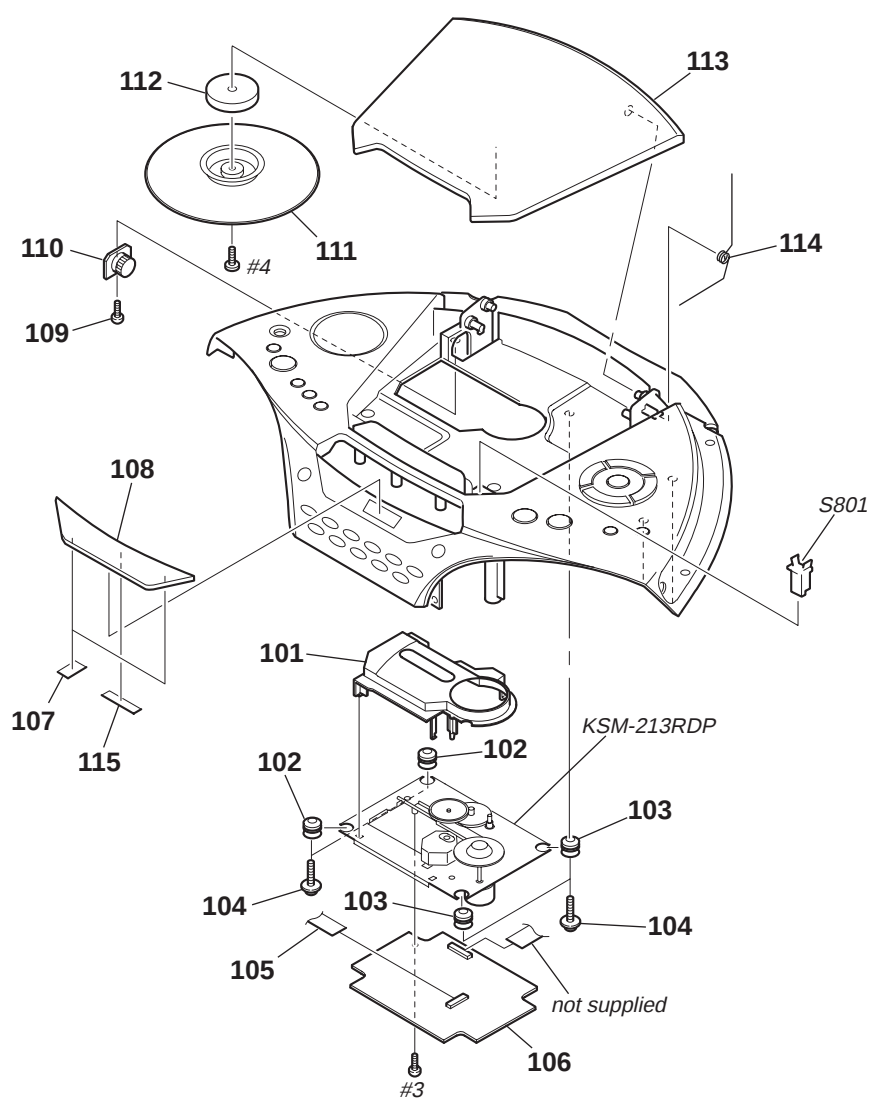
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-237-699-91	LID, BATTERY		4	3-248-300-21	HOLDER (HANDLE) (L)	
2	4-951-620-81	SCREW (2.6)		5	3-248-299-21	HANDLE	
3	3-248-301-21	HOLDER (HANDLE) (R)		#1	7-685-535-19	SCREW +BTP 2.6X10 TYPE2 N-S	

7-2. CABINET (FRONT) SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3382-906-1	CABINET (FRONT) SUB ASSY (US)		60	3-248-288-31	BUTTON (PAUSE), MD	
51	X-3382-907-1	CABINET (FRONT) SUB ASSY (EXCEPT US)		61	3-248-289-31	BUTTON (S/E), MD	
52	3-040-916-01	FOOT (FRONT), RUBBER		62	3-248-291-31	BUTTON (FF), MD	
53	3-248-287-21	HOLDER (CASSETTE)		63	3-248-290-31	BUTTON (REW), MD	
54	3-248-294-01	SPRING (CASSETTE)		64	3-248-292-31	BUTTON (PLAY), MD	
55	3-248-295-01	BRACKET (LCD BOARD)		65	3-248-293-31	BUTTON (REC), MD	
56	4-951-620-01	SCREW (2.6X8), +BVTP		LCD401	1-805-165-11	DISPLAY PANEL, LIQUID CRYSTAL	
* 57	A-3347-781-A	LCD BOARD, COMPLETE		SP301	1-825-031-12	SPEAKER (10cm) (L-CH)	
58	3-248-318-01	HOLDER (RAY CATCHER)		SP302	1-825-031-12	SPEAKER (10cm) (R-CH)	
59	3-047-468-11	DAMPER		#2	7-685-647-79	SCREW (3X10), +BVTP	

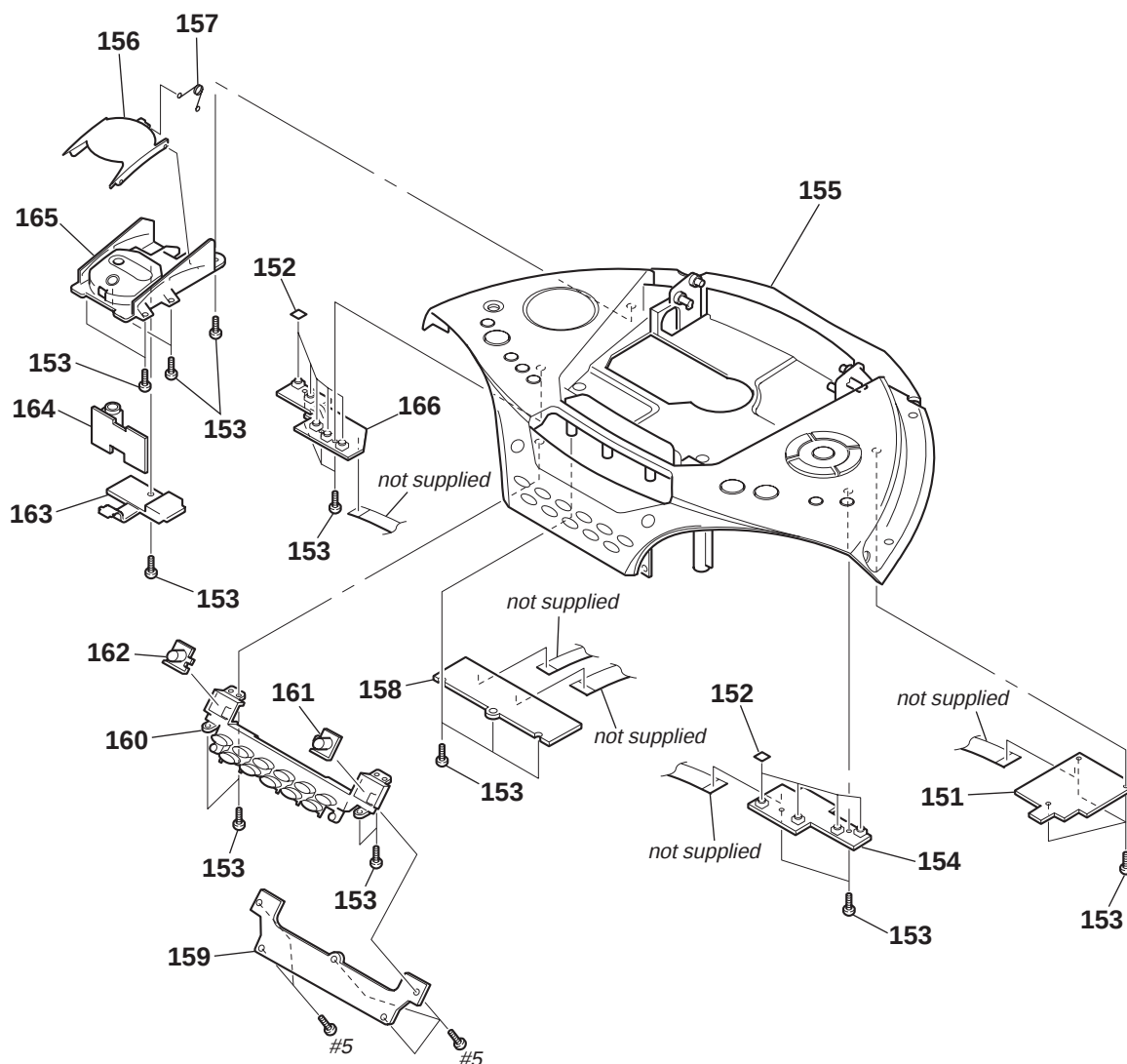
7-3. CABINET (UPPER) (1) SECTION



Ref. No.	Part No.	Description	Remark
101	3-923-736-01	COVER, CD	
102	3-931-379-21	RUBBER, VIBRATION PROOF	
103	3-931-379-31	RUBBER, VIBRATION PROOF	
104	3-921-725-11	SCREW (2.6X10), +PWH	
105	1-757-689-11	CABLE, FLEXIBLE FLAT (16 CORE)	
* 106	A-3178-122-A	CD BOARD, COMPLETE	
107	3-250-078-01	TAPE (LCD WINDOW) (A)	
108	3-248-305-21	WINDOW, LCD	
109	4-951-620-01	SCREW (2.6X8), +BVTP	
110	3-047-468-11	DAMPER	

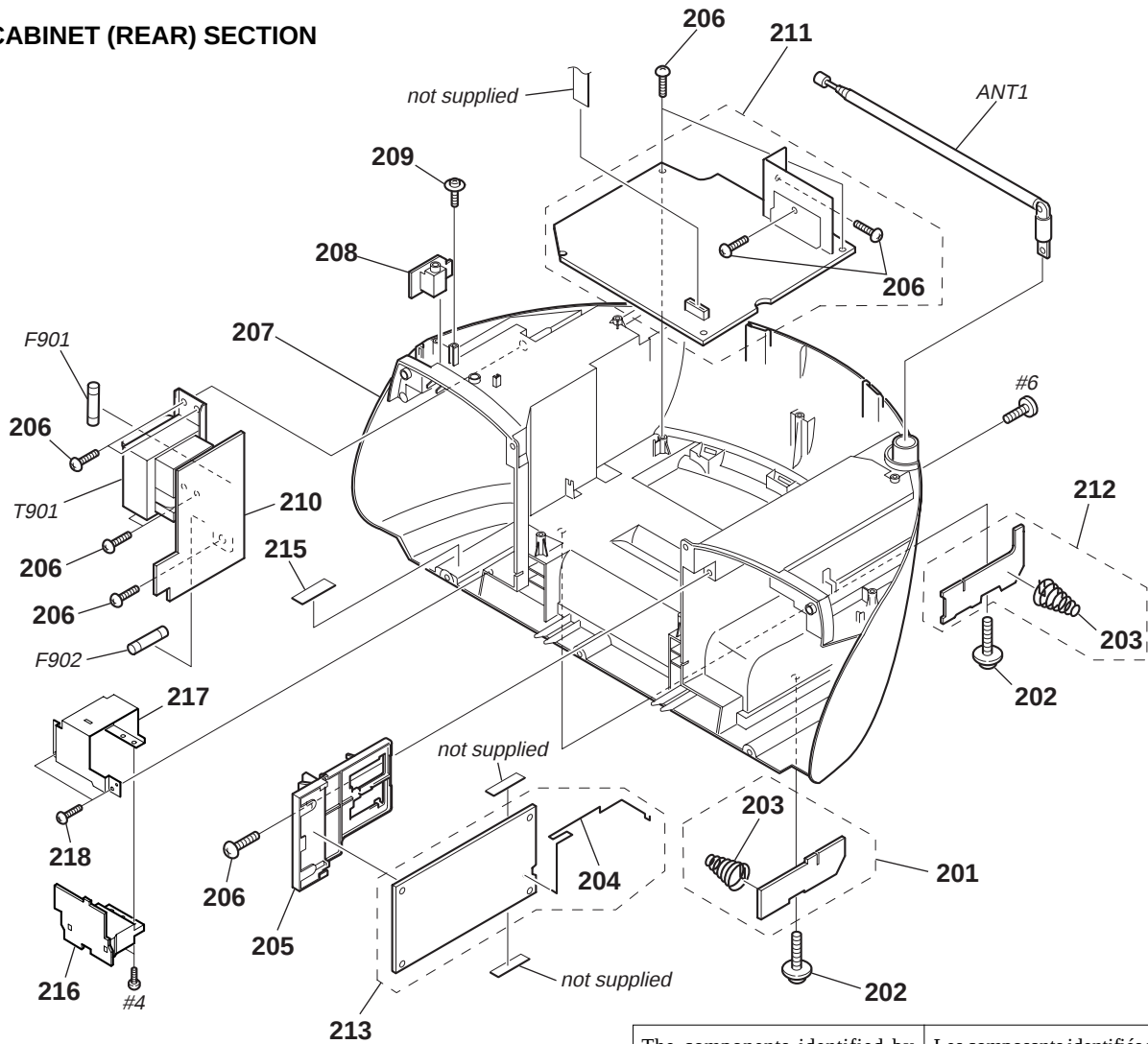
Ref. No.	Part No.	Description	Remark
111	3-019-395-01	PLATE, CHUCKING	
112	1-452-899-11	MAGNET	
113	3-248-297-71	LID, CD	
114	3-248-298-01	SPRING (CD)	
115	3-250-079-01	TAPE (LCD WINDOW) (B)	
S801	1-692-960-11	SWITCH, PUSH (1 KEY)	(▲ PUSH OPEN/CLOSE)
#3	7-685-853-04	SCREW +BVTT 2X6 (S)	
#4	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	

7-4. CABINET (UPPER) (2) SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 151	A-3347-782-A	SOUND BOARD, COMPLETE		* 159	A-3347-775-A	TEN KEY BOARD, COMPLETE	
152	3-831-441-11	CUSHION (B)		160	X-3382-909-1	BUTTON (10 KEY) SUB ASSY	
153	4-951-620-01	SCREW (2.6X8), +BVTP		161	3-248-320-31	BUTTON (DISPLAY)	
* 154	A-3347-812-A	VOL BOARD, COMPLETE		162	3-248-319-31	BUTTON (MODE)	
155	X-3382-897-1	CABINET (UPPER) SUB ASSY (US)		163	3-248-314-01	BRACKET (JACK) (US,CND)	
155	X-3382-898-1	CABINET (UPPER) SUB ASSY (CND)		* 164	A-3347-784-A	LINE IN BOARD, COMPLETE (US,CND)	
155	X-3382-899-1	CABINET (UPPER) SUB ASSY (EXCEPT US,CND)		165	X-3382-914-1	CHASSIS (JACK) ASSY (US,CND)	
156	3-248-311-11	LID, JACK (US,CND)		* 166	A-3347-772-A	FUNCTION BOARD, COMPLETE	
157	3-248-315-01	SPRING (JACK) (US,CND)		#5	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT	
* 158	A-3347-783-A	CD BUTTON BOARD, COMPLETE					

7-5. CABINET (REAR) SECTION



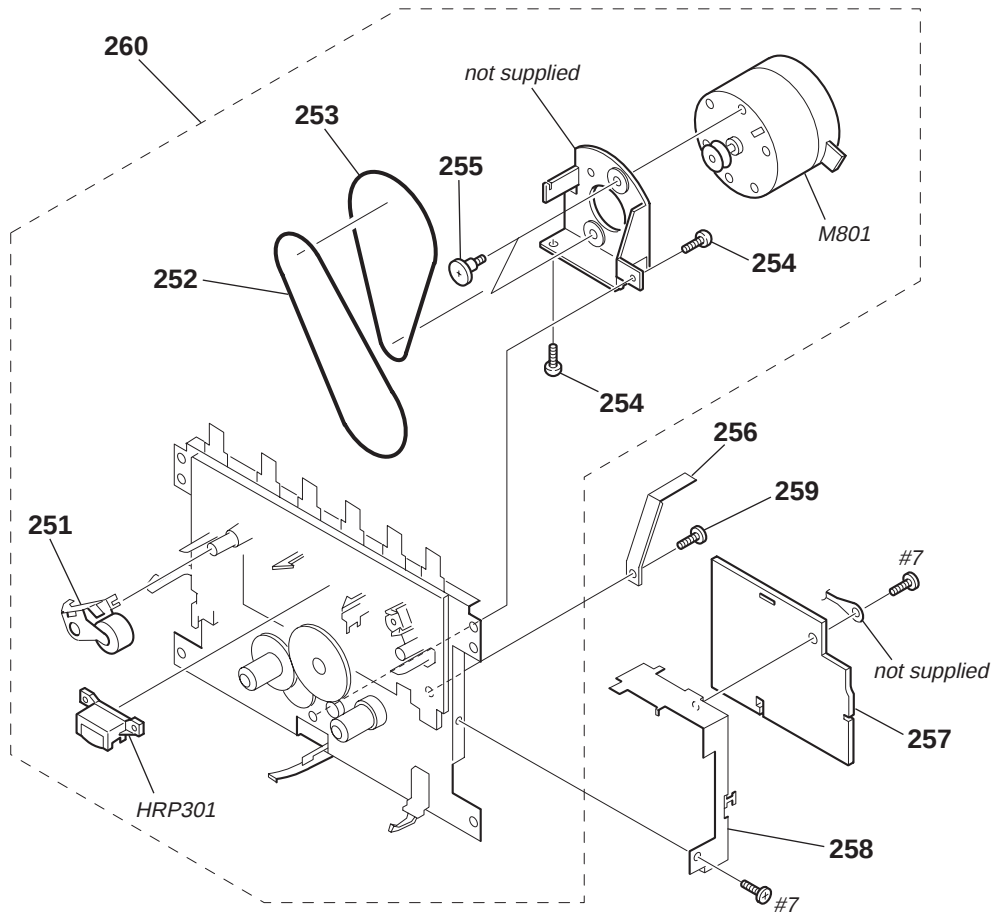
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

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
* 201	A-3347-777-A	BATTERY (1) BOARD, COMPLETE	
202	4-960-167-01	SCREW (3X8) (DIA.10), +WH	
203	3-240-561-01	TERMINAL (-), BATTERY	
204	3-237-724-01	TERMINAL, ANTENNA	
205	3-237-716-01	CHASSIS, TU (EA,KR,SP)	
205	3-249-551-01	HOLDER (PWB TU) (US,CND,E92,MX)	
206	4-951-620-01	SCREW (2.6X8), +BVTP	
207	3-249-494-01	CABINET (REAR) (US)	
207	3-249-494-11	CABINET (REAR) (CND)	
207	3-249-494-21	CABINET (REAR) (E92,MX)	
207	3-249-494-41	CABINET (REAR) (KR,SP)	
207	3-249-494-51	CABINET (REAR) (EA)	
* 208	A-3347-780-A	HEADPHONE BOARD, COMPLETE	
209	3-921-725-11	SCREW (2.6X10), +PWH	
* 210	A-3347-776-A	POWER BOARD, COMPLETE (US)	
* 210	A-3347-787-A	POWER BOARD, COMPLETE (KR,SP)	
* 210	A-3347-992-A	POWER BOARD, COMPLETE (E92,MX)	
* 210	A-3347-994-A	POWER BOARD, COMPLETE (CND)	
* 210	A-3683-635-A	POWER BOARD, COMPLETE (EA)	
* 211	A-3347-813-A	MAIN BOARD, COMPLETE (US,CND)	
* 211	A-3347-993-A	MAIN BOARD, COMPLETE (E92,MX)	
* 211	A-3683-327-A	MAIN BOARD, COMPLETE (KR)	
* 211	A-3683-328-A	MAIN BOARD, COMPLETE (SP)	
* 211	A-3683-636-A	MAIN BOARD, COMPLETE (EA)	

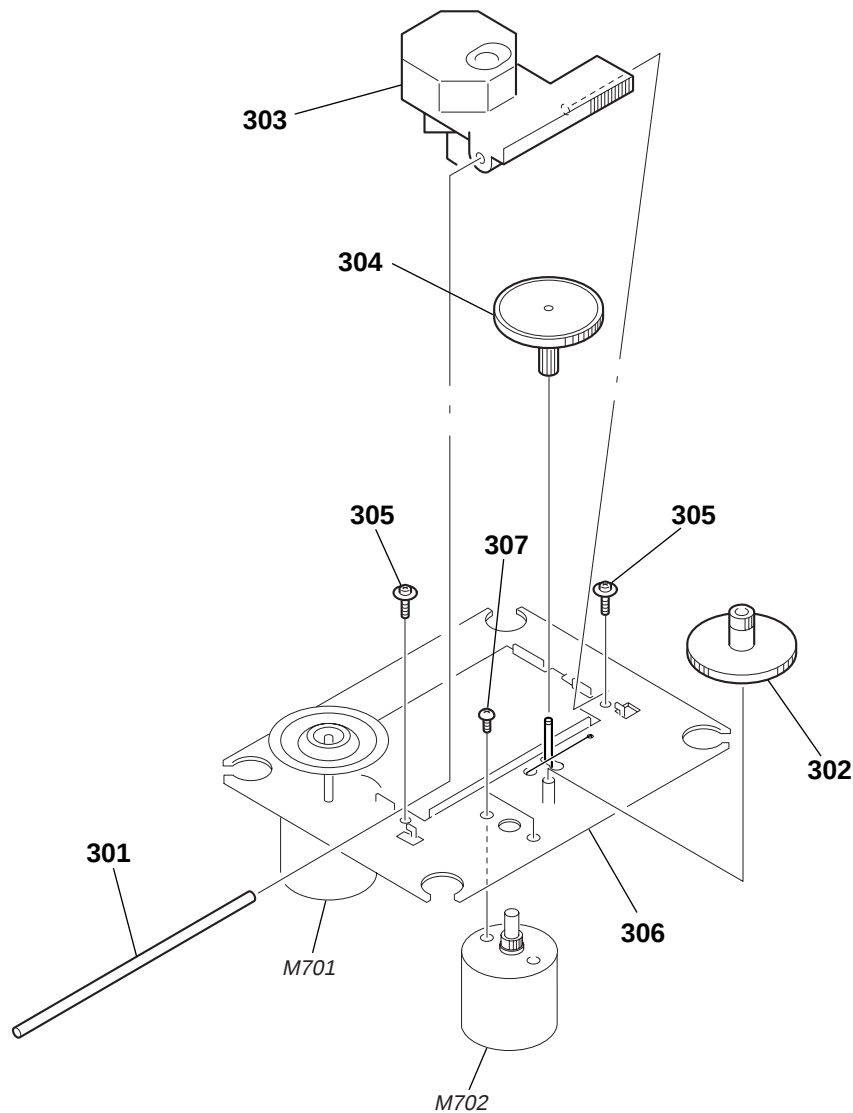
Ref. No.	Part No.	Description	Remark
* 212	A-3347-778-A	BATTERY (2) BOARD, COMPLETE	
* 213	A-3683-859-A	TUNER BOARD, COMPLETE (EA,KR,SP)	
* 213	A-3683-865-A	TUNER BOARD, COMPLETE (US,CND,E92,MX)	
* 215	3-703-044-26	LABEL, CAUTION (CND)	
* 216	1-688-686-11	VOL SEL BOARD (EA)	
217	3-245-223-01	CHASSIS (VOL PWB) (EA)	
218	4-951-620-11	SCREW (2.6X10), +BVTP (EA)	
ANT1	1-754-241-11	ANTENNA, TELESCOPIC (FM)	
Δ F901	1-533-460-11	FUSE, GLASS TUBE (DIA.5) (T315mA/250V) (EA)	
Δ F902	1-533-468-11	FUSE, GLASS TUBE (DIA.5) (T2AL/250V) (EA)	
Δ F902	1-533-469-11	FUSE, GLASS TUBE (DIA.5) (T2.5AL/250V) (KR,SP)	
Δ F902	1-533-470-11	FUSE, GLASS TUBE (DIA.5) (3.15A/250V) (CND)	
Δ T901	1-435-917-11	TRANSFORMER, POWER (US,CND,E92,MX)	
Δ T901	1-435-922-11	TRANSFORMER, POWER (EA)	
Δ T901	1-435-918-21	TRANSFORMER, POWER (KR,SP)	
#4	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#6	7-682-548-04	SCREW +B 3X8	

7-6. TAPE MECHANISM SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	3-244-086-01	ARM, PINCH ROLLER		258	3-237-719-01	CHASSIS, TC	
252	3-244-079-01	BELT (B), SUB		259	3-030-741-01	SCREW (M2X2)	
253	3-244-080-01	BELT (B), MAIN		* 260	A-3013-956-A	MF-S200	
254	3-244-083-01	+SCREW BIND DT M2X6		HRP301	3-244-085-01	HEAD, R/P (REC/PB)	
255	3-244-084-01	+SCREW PAN M2.6X4.5		M801	3-244-082-01	MOTOR ASSY (CAPSTAN/REEL)	
256	3-237-718-01	LEVER, REC		#7	7-685-851-04	SCREW +BVTT 2X4 (S)	
* 257	A-3683-864-A	TC BOARD, COMPLETE					

7-7. 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
301	2-626-908-01	SHAFT, SLED		306	X-2162-707-1	CHASSIS ASSY (RDP) (RP), MOTOR (SPINDLE) (including M701)	
* 302	2-647-408-02	GEAR (B)		307	3-713-786-51	SCREW +P 2X3	
$\triangle$ 303	8-820-161-02	OPTICAL PICK-UP KSS-213R/C2RP		M702	X-2162-712-1	GEAR ASSY (R) (RP), MOTOR (SLED)	
* 304	2-169-065-01	GEAR (A)					
305	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 EA : AC 110-127V/220-240V area in E model
KR : Korean model SP : Singapore model
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u : μ , for example:
uA.. : μ A.. uPA.. : μ PA..
uPB.. : μ PB.. uPC.. : μ PC.. uPD.. : μ PD..
- CAPACITORS
uF : μ F
- COILS
uH : μ H

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
*	A-3347-777-A	BATTERY (1) BOARD, COMPLETE *****		C735	1-126-916-11	ELECT 1000uF 20%	6.3V
				C736	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
				C738	1-164-156-11	CERAMIC CHIP 0.1uF	25V
				C739	1-164-156-11	CERAMIC CHIP 0.1uF	25V
				C740	1-126-935-11	ELECT 470uF 20%	10V
	3-240-561-01	TERMINAL (-), BATTERY *****					
*	A-3347-778-A	BATTERY (2) BOARD, COMPLETE *****		C741	1-164-156-11	CERAMIC CHIP 0.1uF	25V
				C742	1-164-156-11	CERAMIC CHIP 0.1uF	25V
				C743	1-164-156-11	CERAMIC CHIP 0.1uF	25V
				C744	1-164-156-11	CERAMIC CHIP 0.1uF	25V
				C745	1-164-156-11	CERAMIC CHIP 0.1uF	25V
	3-240-561-01	TERMINAL (-), BATTERY < CONNECTOR >		C746	1-104-665-11	ELECT 100uF 20%	10V
* CNP904	1-815-550-11	PIN, CONNECTOR (PWB) 2P *****		C747	1-104-665-11	ELECT 100uF 20%	10V
				C750	1-104-665-11	ELECT 100uF 20%	10V
				C751	1-164-156-11	CERAMIC CHIP 0.1uF	25V
*	A-3178-122-A	CD BOARD, COMPLETE *****		C754	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
				C755	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
						< CONNECTOR >	
C701	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V				
C702	1-126-947-11	ELECT 47uF 20%	10V				
C703	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	* CNP701	1-779-466-11	CONNECTOR, FFC/FPC 16P	
C704	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	* CNP702	1-784-736-11	CONNECTOR, FFC 14P	
C705	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V				
						< FERRITE BEAD >	
C706	1-126-960-11	ELECT 1uF 20%	50V	FB701	1-469-701-21	FERRITE, EMI (SMD)	
C707	1-115-156-11	CERAMIC CHIP 1uF	10V				
C708	1-162-927-11	CERAMIC CHIP 100PF 5%	50V			< IC >	
C709	1-164-156-11	CERAMIC CHIP 0.1uF	25V	IC701	6-701-796-01	IC LC78646E-E	
C711	1-162-974-11	CERAMIC CHIP 0.01uF	50V	IC702	6-701-787-11	IC BA5826FP-E2	
C716	1-162-974-11	CERAMIC CHIP 0.01uF	50V			< JUMPER RESISTOR >	
C717	1-163-021-11	CERAMIC CHIP 0.01uF 10%	50V	JC701	1-216-864-11	METAL CHIP 0 5%	1/10W
C720	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	JC702	1-216-864-11	METAL CHIP 0 5%	1/10W
C721	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	JC703	1-216-864-11	METAL CHIP 0 5%	1/10W
C722	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	JC704	1-216-821-11	METAL CHIP 1K 5%	1/10W
C723	1-162-974-11	CERAMIC CHIP 0.01uF	50V			< FERRITE BEAD >	
C724	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	L706	1-414-445-11	FERRITE, EMI (SMD)	
C725	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V			< TRANSISTOR >	
C726	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	Q701	8-729-054-57	TRANSISTOR KTN2907AS-RTK	
C727	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V			< RESISTOR >	
C728	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V				
C729	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V	R701	1-216-841-11	METAL CHIP 47K 5%	1/10W
C730	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	R702	1-216-835-11	METAL CHIP 15K 5%	1/10W
C731	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V				
C732	1-104-665-11	ELECT 100uF 20%	10V				
C733	1-104-665-11	ELECT 100uF 20%	10V				
C734	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V				

CFD-S550

CD	CD BUTTON	FUNCTION KEY	POWER KEY	HEADPHONE
----	-----------	--------------	-----------	-----------

Ref. No.	Part No.	Description			Remark
R703	1-216-835-11	METAL CHIP	15K	5%	1/10W
R704	1-216-835-11	METAL CHIP	15K	5%	1/10W
R705	1-216-835-11	METAL CHIP	15K	5%	1/10W
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
R709	1-216-837-11	METAL CHIP	22K	5%	1/10W
R710	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R711	1-216-815-11	METAL CHIP	330	5%	1/10W
R712	1-216-809-11	METAL CHIP	100	5%	1/10W
R714	1-216-811-11	METAL CHIP	150	5%	1/10W
R715	1-216-811-11	METAL CHIP	150	5%	1/10W
R716	1-216-821-11	METAL CHIP	1K	5%	1/10W
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
R720	1-216-809-11	METAL CHIP	100	5%	1/10W
R721	1-216-821-11	METAL CHIP	1K	5%	1/10W
R722	1-216-809-11	METAL CHIP	100	5%	1/10W
R723	1-216-809-11	METAL CHIP	100	5%	1/10W
R724	1-216-841-11	METAL CHIP	47K	5%	1/10W
R725	1-216-819-11	METAL CHIP	680	5%	1/10W
R726	1-216-819-11	METAL CHIP	680	5%	1/10W
R727	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R728	1-216-833-11	METAL CHIP	10K	5%	1/10W
R729	1-216-813-11	METAL CHIP	220	5%	1/10W
R730	1-216-821-11	METAL CHIP	1K	5%	1/10W
R731	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R732	1-216-841-11	METAL CHIP	47K	5%	1/10W
R741	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R743	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R744	1-216-845-11	METAL CHIP	100K	5%	1/10W
< SWITCH >					
S701	1-571-936-11	SWITCH, LEAF (LIMIT)			
< VIBRATOR >					
X701	1-781-801-21	VIBRATOR, CERAMIC (16.93MHz)			

*	A-3347-783-A	CD BUTTON BOARD, COMPLETE			

< CONNECTOR >					
CNP404	1-784-727-11	CONNECTOR, FFC 5P			
CNP410	1-784-731-11	CONNECTOR, FFC 9P			
< JUMPER RESISTOR >					
JC405	1-216-864-11	METAL CHIP	0	5%	1/10W
JC406	1-216-864-11	METAL CHIP	0	5%	1/10W
JC407	1-216-864-11	METAL CHIP	0	5%	1/10W
JC408	1-216-864-11	METAL CHIP	0	5%	1/10W
JC409	1-216-864-11	METAL CHIP	0	5%	1/10W
< RESISTOR >					
R439	1-216-809-11	METAL CHIP	100	5%	1/10W
R450	1-216-821-11	METAL CHIP	1K	5%	1/10W
R451	1-216-825-11	METAL CHIP	2.2K	5%	1/10W

Ref. No.	Part No.	Description	Remark		
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
< SWITCH >					
S434	1-786-050-21	SWITCH, KEYBOARD (▶)			
S435	1-786-050-21	SWITCH, KEYBOARD (■)			
S436	1-786-050-21	SWITCH, KEYBOARD (▶▶/TUNE +)			
S437	1-786-050-21	SWITCH, KEYBOARD (◀◀/TUNE -)			

*	A-3347-772-A	FUNCTION BOARD, COMPLETE (including FUNCTION KEY BOARD and POWER KEY BOARD)			

FUNCTION KEY BOARD (supplied with FUNCTION BOARD, COMPLETE)					

	3-831-441-11	CUSHION (B)			
< RESISTOR >					
R412	1-216-813-11	METAL CHIP	220	5%	1/10W
R413	1-216-817-11	METAL CHIP	470	5%	1/10W
R414	1-216-821-11	METAL CHIP	1K	5%	1/10W
R415	1-216-821-11	METAL CHIP	1K	5%	1/10W
< SWITCH >					
S409	1-786-050-21	SWITCH, KEYBOARD (CD)			
S410	1-786-050-21	SWITCH, KEYBOARD (TAPE)			
S411	1-786-050-21	SWITCH, KEYBOARD (RADIO BAND• AUTO PRESET)			
POWER KEY BOARD (supplied with FUNCTION BOARD, COMPLETE)					

	3-831-441-11	CUSHION (B)			
< RESISTOR >					
R401	1-216-813-11	METAL CHIP	220	5%	1/10W
R402	1-216-817-11	METAL CHIP	470	5%	1/10W
R403	1-216-821-11	METAL CHIP	1K	5%	1/10W
< SWITCH >					
S401	1-786-050-21	SWITCH, KEYBOARD (POWER)			
S402	1-786-050-21	SWITCH, KEYBOARD (SLEEP)			

*	A-3347-780-A	HEADPHONE BOARD, COMPLETE			

< CONNECTOR >					
CNP322	1-815-446-11	PIN, CONNECTOR (PWB) 5P			
< JACK >					
J321	1-815-325-11	JACK (㊤)			

HEADPHONE

LCD

LINE IN

MAIN

Ref. No.	Part No.	Description	Remark		
< RESISTOR >					
R116	1-216-809-11	METAL CHIP	100	5%	1/10W
R216	1-216-809-11	METAL CHIP	100	5%	1/10W

*	A-3347-781-A	LCD BOARD, COMPLETE	*****		
	3-248-318-01	HOLDER (RAY CATCHER)			
< CAPACITOR >					
C405	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C406	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
< DIODE >					
D405	8-719-059-97	LED L-34HD (OPR/BATT)			
< IC >					
IC401	6-701-681-01	IC RPM7140-V4			
< LIQUID CRYSTAL DISPLAY >					
LCD401	1-805-165-11	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	1-216-817-11	METAL CHIP	470	5%	1/10W
R444	1-216-817-11	METAL CHIP	470	5%	1/10W
R447	1-216-833-11	METAL CHIP	10K	5%	1/10W
R448	1-216-813-11	METAL CHIP	220	5%	1/10W

*	A-3347-784-A	LINE IN BOARD, COMPLETE (US,CND)	*****		
< JACK >					
J303	1-566-891-11	JACK (LINE IN) (US,CND)			
< JUMPER RESISTOR >					
L401	1-216-864-11	METAL CHIP	0	5%	1/10W (US,CND)
< RESISTOR >					
R410	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (US,CND)
R411	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (US,CND)
R479	1-216-845-11	METAL CHIP	100K	5%	1/10W (US,CND)
< SWITCH >					
S439	1-554-088-00	SWITCH, KEYBOARD (LINE) (US,CND)	*****		

Ref. No.	Part No.	Description	Remark		
*	A-3347-813-A	MAIN BOARD, COMPLETE (US,CND)			
*	A-3347-993-A	MAIN BOARD, COMPLETE (E92,MX)			
*	A-3683-327-A	MAIN BOARD, COMPLETE (KR)			
*	A-3683-328-A	MAIN BOARD, COMPLETE (SP)			
*	A-3683-636-A	MAIN BOARD, COMPLETE (EA)			

	4-951-620-01	SCREW (2.6X8), +BVTP			
< CAPACITOR >					
C101	1-126-960-11	ELECT	1uF	20%	50V
C103	1-126-963-11	ELECT	4.7uF	20%	50V
C104	1-126-963-11	ELECT	4.7uF	20%	50V
C105	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C106	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C107	1-126-960-11	ELECT	1uF	20%	50V
C108	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C109	1-126-947-11	ELECT	47uF	20%	10V
C110	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C111	1-104-665-11	ELECT	100uF	20%	10V
C112	1-126-926-11	ELECT	1000uF	20%	10V
C113	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C114	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C115	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C116	1-104-665-11	ELECT	100uF	20%	10V (US,CND)
C118	1-115-156-11	CERAMIC CHIP	1uF		10V
C119	1-126-964-11	ELECT	10uF	20%	50V (US,CND)
C120	1-126-963-11	ELECT	4.7uF	20%	50V (US,CND)
C121	1-126-963-11	ELECT	4.7uF	20%	50V
C122	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C124	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (US,CND)
C201	1-126-960-11	ELECT	1uF	20%	50V
C203	1-126-963-11	ELECT	4.7uF	20%	50V
C204	1-126-963-11	ELECT	4.7uF	20%	50V
C205	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C206	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C207	1-126-960-11	ELECT	1uF	20%	50V
C208	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C209	1-126-947-11	ELECT	47uF	20%	10V
C210	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C211	1-104-665-11	ELECT	100uF	20%	10V
C212	1-126-926-11	ELECT	1000uF	20%	10V
C213	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C214	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C215	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C218	1-115-156-11	CERAMIC CHIP	1uF		10V
C219	1-126-964-11	ELECT	10uF	20%	50V (US,CND)
C220	1-126-963-11	ELECT	4.7uF	20%	50V (US,CND)
C221	1-126-963-11	ELECT	4.7uF	20%	50V
C222	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C224	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (US,CND)
C302	1-104-665-11	ELECT	100uF	20%	10V (US,CND)

MAIN

Ref. No.	Part No.	Description	Remark		
C321	1-104-665-11	ELECT	100uF	20%	10V
C322	1-126-947-11	ELECT	47uF	20%	10V
C323	1-126-964-11	ELECT	10uF	20%	50V
C324	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C325	1-126-937-11	ELECT	4700uF	20%	16V
C326	1-126-934-11	ELECT	220uF	20%	16V
C327	1-126-947-11	ELECT	47uF	20%	10V
C328	1-126-959-11	ELECT	0.47uF	20%	50V
C329	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C331	1-126-964-11	ELECT	10uF	20%	50V
C340	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C341	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C342	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C343	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C350	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C352	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C800	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C801	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C802	1-104-665-11	ELECT	100uF	20%	10V
C803	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C804	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C805	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C806	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C807	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C808	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C809	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C810	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C811	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C812	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C813	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C814	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C815	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C816	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C818	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C819	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C820	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C821	1-115-156-11	CERAMIC CHIP	1uF		10V
C822	1-126-934-11	ELECT	220uF	20%	10V
C824	1-115-156-11	CERAMIC CHIP	1uF		10V
C825	1-126-964-11	ELECT	10uF	20%	50V
C830	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C831	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C832	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C839	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C951	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C952	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C953	1-126-935-11	ELECT	470uF	20%	10V
C957	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C959	1-126-934-11	ELECT	220uF	20%	16V
C960	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
< CONNECTOR >					
CNP302	1-784-726-11	CONNECTOR, FFC 4P			
CNP802	1-695-371-31	CONNECTOR, FFC 10P			
CNP803	1-784-774-11	CONNECTOR, FFC 13P			
CNP804	1-784-775-11	CONNECTOR, FFC 14P			
CNP806	1-784-774-11	CONNECTOR, FFC 13P			
CNP807	1-784-773-11	CONNECTOR, FFC 12P			

Ref. No.	Part No.	Description	Remark		
CNP808	1-815-446-11	PIN, CONNECTOR (PWB) 5P (US,CND)			
< DIODE >					
D322	8-719-988-61	DIODE 1SS355TE-17			
D323	8-719-988-61	DIODE 1SS355TE-17			
D324	8-719-988-61	DIODE 1SS355TE-17			
D801	8-719-069-54	DIODE UDZS-TE-17-5.1B			
D802	8-719-941-86	DIODE DAN202U			
D804	8-719-941-86	DIODE DAN202U			
D807	8-719-941-09	DIODE DAP202U			
D810	8-719-941-86	DIODE DAN202U			
D951	8-719-941-09	DIODE DAP202U			
D953	8-719-978-33	DIODE DTZ-TT11-6.8B			
D957	8-719-083-58	DIODE UDZS-TE-17-3.9B			
< FERRITE BEAD >					
FB301	1-414-445-11	FERRITE, EMI (SMD) (US,CND)			
< IC >					
IC303	6-701-824-11	IC BD3870FS-E2			
IC304	8-759-426-51	IC BA5417			
IC801	6-703-285-01	IC S-812C33AUA-C2NT2G			
IC802	6-802-792-01	IC uPD789477GC-A27-8BT			
IC803	6-700-336-01	IC CAT24WC02JI-1.8-TE13			
IC804	6-703-773-01	IC S-80828CNNB-B8N-T2G			
< 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
JC305	1-216-864-11	METAL CHIP	0	5%	1/10W
JC306	1-216-864-11	METAL CHIP	0	5%	1/10W
JC307	1-216-864-11	METAL CHIP	0	5%	1/10W
JC308	1-216-864-11	METAL CHIP	0	5%	1/10W
JC309	1-216-864-11	METAL CHIP	0	5%	1/10W
JC310	1-216-864-11	METAL CHIP	0	5%	1/10W
JC311	1-216-864-11	METAL CHIP	0	5%	1/10W
JC312	1-216-864-11	METAL CHIP	0	5%	1/10W
JC313	1-216-864-11	METAL CHIP	0	5%	1/10W
JC314	1-216-864-11	METAL CHIP	0	5%	1/10W
JC315	1-216-864-11	METAL CHIP	0	5%	1/10W (US,CND)
JC316	1-216-864-11	METAL CHIP	0	5%	1/10W (US,CND)
JC317	1-216-864-11	METAL CHIP	0	5%	1/10W (US,CND)
JC318	1-216-864-11	METAL CHIP	0	5%	1/10W (US,CND)
JC319	1-216-864-11	METAL CHIP	0	5%	1/10W
< CABLE HOLDER >					
KH301	1-824-030-11	HOLDER, CABLE 5P			
KH321	1-824-029-11	HOLDER, CABLE 4P			
KH803	1-824-028-11	HOLDER, CABLE 2P			

Ref. No.	Part No.	Description		Remark		Ref. No.	Part No.	Description		Remark	
< COIL >						R142	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (US,CND)
L801	1-414-137-31	INDUCTOR	0.22uH			R204	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
L802	1-410-521-11	INDUCTOR	100uH			R205	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
< TRANSISTOR >						R206	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R207	1-216-813-11	METAL CHIP	220	5%	1/10W
Q111	8-729-905-40	TRANSISTOR	2SC4081T106 (US,CND)			R208	1-216-817-11	METAL CHIP	470	5%	1/10W
Q112	8-729-905-40	TRANSISTOR	2SC4081T106 (US,CND)			R209	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q122	8-729-905-40	TRANSISTOR	2SC4081T106			R210	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q124	8-729-029-10	TRANSISTOR	DTC143TUA-T106			R211	1-216-813-11	METAL CHIP	220	5%	1/10W
Q204	8-729-905-40	TRANSISTOR	2SC4081T106 (US,CND)			R212	1-216-789-11	METAL CHIP	2.2	5%	1/10W
Q205	8-729-905-40	TRANSISTOR	2SC4081T106 (US,CND)			R213	1-216-853-11	METAL CHIP	470K	5%	1/10W
Q222	8-729-905-40	TRANSISTOR	2SC4081T106			R214	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q224	8-729-029-10	TRANSISTOR	DTC143TUA-T106			R215	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q406	8-729-905-40	TRANSISTOR	2SC4081T106 (US,CND)			R219	1-216-841-11	METAL CHIP	47K	5%	1/10W (US,CND)
Q801	8-729-029-16	TRANSISTOR	DTC144VUA-T106			R220	1-216-845-11	METAL CHIP	100K	5%	1/10W (US,CND)
Q804	8-729-028-77	TRANSISTOR	DTA115EUA-T106								
Q806	8-729-028-77	TRANSISTOR	DTA115EUA-T106								
Q808	8-729-905-40	TRANSISTOR	2SC4081T106			R221	1-216-845-11	METAL CHIP	100K	5%	1/10W (US,CND)
Q812	8-729-028-92	TRANSISTOR	DTA144TUA-T106								
Q813	8-729-028-99	TRANSISTOR	DTC114YUA-T106			R222	1-216-821-11	METAL CHIP	1K	5%	1/10W (US,CND)
Q814	8-729-028-99	TRANSISTOR	DTC114YUA-T106			R224	1-216-821-11	METAL CHIP	1K	5%	1/10W (US,CND)
Q815	8-729-905-40	TRANSISTOR	2SC4081T106								
Q816	8-729-028-76	TRANSISTOR	DTA114YUA-T106 (US,CND)			R226	1-216-841-11	METAL CHIP	47K	5%	1/10W (US,CND)
Q817	8-729-028-99	TRANSISTOR	DTC114YUA-T106 (US,CND)								
Q819	8-729-029-00	TRANSISTOR	DTC115EUA-T106			R242	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (US,CND)
Q951	8-729-029-13	TRANSISTOR	DTC143ZUA-T106								
Q952	8-729-040-76	TRANSISTOR	KTA1273-Y-AT			R303	1-216-809-11	METAL CHIP	100	5%	1/10W
Q953	8-729-905-40	TRANSISTOR	2SC4081T106			R304	1-216-809-11	METAL CHIP	100	5%	1/10W
Q955	8-729-018-99	TRANSISTOR	2SD2394-F			R321	1-216-809-11	METAL CHIP	100	5%	1/10W (US,CND)
Q957	8-729-036-86	TRANSISTOR	KTC3203Y-AT			R322	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q958	8-729-028-90	TRANSISTOR	DTA143ZUA-T106			R323	1-216-857-11	METAL CHIP	1M	5%	1/10W
Q959	8-729-028-99	TRANSISTOR	DTC114YUA-T106								
< RESISTOR >						R324	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
						R325	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R326	1-216-821-11	METAL CHIP	1K	5%	1/10W
R104	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R331	1-216-809-11	METAL CHIP	100	5%	1/10W
R105	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R332	1-216-809-11	METAL CHIP	100	5%	1/10W
R106	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R107	1-216-813-11	METAL CHIP	220	5%	1/10W	R333	1-216-833-11	METAL CHIP	10K	5%	1/10W
R108	1-216-817-11	METAL CHIP	470	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
R109	1-216-833-11	METAL CHIP	10K	5%	1/10W	R362	1-216-833-11	METAL CHIP	10K	5%	1/10W
R110	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R363	1-216-833-11	METAL CHIP	10K	5%	1/10W
R111	1-216-813-11	METAL CHIP	220	5%	1/10W						
R112	1-216-789-11	METAL CHIP	2.2	5%	1/10W	R404	1-216-845-11	METAL CHIP	100K	5%	1/10W (US,CND)
R113	1-216-853-11	METAL CHIP	470K	5%	1/10W	R408	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (US,CND)
R114	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R115	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R800	1-216-821-11	METAL CHIP	1K	5%	1/10W
R119	1-216-841-11	METAL CHIP	47K	5%	1/10W (US,CND)	R802	1-216-841-11	METAL CHIP	47K	5%	1/10W
						R803	1-216-841-11	METAL CHIP	47K	5%	1/10W
R120	1-216-845-11	METAL CHIP	100K	5%	1/10W (US,CND)	R804	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R805	1-216-833-11	METAL CHIP	10K	5%	1/10W
R121	1-216-845-11	METAL CHIP	100K	5%	1/10W (US,CND)	R806	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
						R807	1-216-833-11	METAL CHIP	10K	5%	1/10W
R122	1-216-821-11	METAL CHIP	1K	5%	1/10W (US,CND)	R808	1-216-845-11	METAL CHIP	100K	5%	1/10W
R124	1-216-821-11	METAL CHIP	1K	5%	1/10W (US,CND)	R809	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R810	1-216-845-11	METAL CHIP	100K	5%	1/10W
R126	1-216-841-11	METAL CHIP	47K	5%	1/10W (US,CND)	R811	1-216-849-11	METAL CHIP	220K	5%	1/10W
						R812	1-216-845-11	METAL CHIP	100K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R813	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R858	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R814	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R859	1-216-821-11	METAL CHIP	1K	5%	1/10W
R815	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R860	1-216-841-11	METAL CHIP	47K	5%	1/10W
R816	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R861	1-216-821-11	METAL CHIP	1K	5%	1/10W
R817	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R862	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R818	1-216-833-11	METAL CHIP	10K	5%	1/10W	R863	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R819	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R864	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R820	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R865	1-216-841-11	METAL CHIP	47K	5%	1/10W
					(SP)	R866	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R820	1-216-833-11	METAL CHIP	10K	5%	1/10W	R867	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
					(KR)						
R820	1-216-837-11	METAL CHIP	22K	5%	1/10W	R868	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(US,CND,EA)	R869	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
						R870	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R820	1-216-864-11	METAL CHIP	0	5%	1/10W	R871	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(E92,MX)	R873	1-216-817-11	METAL CHIP	470	5%	1/10W
R821	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R822	1-216-817-11	METAL CHIP	470	5%	1/10W	R874	1-216-813-11	METAL CHIP	220	5%	1/10W
					(SP)	R876	1-216-845-11	METAL CHIP	100K	5%	1/10W
R822	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R877	1-216-845-11	METAL CHIP	100K	5%	1/10W
					(KR)	R878	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R822	1-216-833-11	METAL CHIP	10K	5%	1/10W	R879	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(US,CND,EA)						
R822	1-216-864-11	METAL CHIP	0	5%	1/10W	R880	1-216-833-11	METAL CHIP	10K	5%	1/10W
					(E92,MX)	R881	1-216-833-11	METAL CHIP	10K	5%	1/10W
R823	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R882	1-216-833-11	METAL CHIP	10K	5%	1/10W
R824	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R883	1-216-833-11	METAL CHIP	10K	5%	1/10W
R825	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R884	1-216-833-11	METAL CHIP	10K	5%	1/10W
R826	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
						R885	1-216-833-11	METAL CHIP	10K	5%	1/10W
R827	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R886	1-216-833-11	METAL CHIP	10K	5%	1/10W
R828	1-216-821-11	METAL CHIP	1K	5%	1/10W	R887	1-216-833-11	METAL CHIP	10K	5%	1/10W
R829	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R888	1-216-833-11	METAL CHIP	10K	5%	1/10W
R830	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R889	1-216-833-11	METAL CHIP	10K	5%	1/10W
R831	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
						R890	1-216-833-11	METAL CHIP	10K	5%	1/10W
R832	1-216-841-11	METAL CHIP	47K	5%	1/10W	R891	1-216-833-11	METAL CHIP	10K	5%	1/10W
R833	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R892	1-216-833-11	METAL CHIP	10K	5%	1/10W
R834	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R893	1-216-833-11	METAL CHIP	10K	5%	1/10W
R835	1-216-841-11	METAL CHIP	47K	5%	1/10W	R894	1-216-833-11	METAL CHIP	10K	5%	1/10W
R836	1-216-841-11	METAL CHIP	47K	5%	1/10W						
						R895	1-216-833-11	METAL CHIP	10K	5%	1/10W
R837	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R896	1-216-833-11	METAL CHIP	10K	5%	1/10W
R838	1-216-837-11	METAL CHIP	22K	5%	1/10W	R897	1-216-833-11	METAL CHIP	10K	5%	1/10W
R839	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R898	1-216-833-11	METAL CHIP	10K	5%	1/10W
R840	1-216-841-11	METAL CHIP	47K	5%	1/10W	R899	1-216-833-11	METAL CHIP	10K	5%	1/10W
R841	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
						R900	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R842	1-216-821-11	METAL CHIP	1K	5%	1/10W	R951	1-216-841-11	METAL CHIP	47K	5%	1/10W
R843	1-216-821-11	METAL CHIP	1K	5%	1/10W	R952	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R844	1-216-833-11	METAL CHIP	10K	5%	1/10W	R953	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R845	1-216-841-11	METAL CHIP	47K	5%	1/10W	R954	1-216-821-11	METAL CHIP	1K	5%	1/10W
R846	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
						R955	1-216-821-11	METAL CHIP	1K	5%	1/10W
R847	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R956	1-216-833-11	METAL CHIP	10K	5%	1/10W
R848	1-216-821-11	METAL CHIP	1K	5%	1/10W	R957	1-216-833-11	METAL CHIP	10K	5%	1/10W
R849	1-216-841-11	METAL CHIP	47K	5%	1/10W	R958	1-216-813-11	METAL CHIP	220	5%	1/10W
R850	1-216-821-11	METAL CHIP	1K	5%	1/10W	R959	1-216-809-11	METAL CHIP	100	5%	1/10W
R851	1-216-817-11	METAL CHIP	470	5%	1/10W						
						R960	1-216-821-11	METAL CHIP	1K	5%	1/10W
R852	1-216-845-11	METAL CHIP	100K	5%	1/10W	R961	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R853	1-216-845-11	METAL CHIP	100K	5%	1/10W	R962	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R854	1-216-841-11	METAL CHIP	47K	5%	1/10W	R963	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R855	1-216-833-11	METAL CHIP	10K	5%	1/10W	R964	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R856	1-216-829-11	METAL CHIP	4.7K	5%	1/10W			< VIBRATOR >			
R857	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	X801	1-795-915-11	VIBRATOR, CRYSTAL (32.768kHz)			

MAIN

POWER

SOUND

TC

Ref. No.	Part No.	Description	Remark
X802	1-795-866-21	VIBRATOR, CERAMIC (4.19MHz)	

*	A-3347-776-A	POWER BOARD, COMPLETE (US)	
*	A-3347-787-A	POWER BOARD, COMPLETE (KR,SP)	
*	A-3347-992-A	POWER BOARD, COMPLETE (E92,MX)	
*	A-3347-994-A	POWER BOARD, COMPLETE (CND)	
*	A-3683-635-A	POWER BOARD, COMPLETE (EA)	

	1-533-233-31	HOLDER, FUSE	
< CAPACITOR >			
C901	1-162-995-11	CERAMIC CHIP 0.022uF	50V
C902	1-162-995-11	CERAMIC CHIP 0.022uF	50V
C903	1-162-995-11	CERAMIC CHIP 0.022uF	50V
C904	1-162-995-11	CERAMIC CHIP 0.022uF	50V
C906	1-126-964-11	ELECT 10uF 20%	50V
< CONNECTOR >			
* CNP901	1-815-551-11	PIN, CONNECTOR (PWB) 3P	
* CNP902	1-815-552-21	PIN, CONNECTOR (PWB) 4P	
* CNP903	1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P (EA)	
< DIODE >			
D901	8-719-063-79	DIODE 1N4002B	
D902	8-719-063-79	DIODE 1N4002B	
D903	8-719-063-79	DIODE 1N4002B	
D904	8-719-063-79	DIODE 1N4002B	
< FUSE >			
△ F901	1-533-460-11	FUSE, GLASS TUBE (DIA.5) (T315mA/250V)	(EA)
△ F902	1-533-468-11	FUSE, GLASS TUBE (DIA.5) (T2AL/250V)	(EA)
△ F902	1-533-469-11	FUSE, GLASS TUBE (DIA.5) (T2.5AL/250V)	(KR,SP)
△ F902	1-533-470-11	FUSE, GLASS TUBE (DIA.5) (3.15A/250V)	(CND)
< AC INLET >			
△ J901	1-526-818-11	INLET, AC (∼ AC IN) (E92,MX)	
△ J901	1-526-838-11	INLET, AC 2P (∼ AC IN) (EA,KR,SP)	
△ J901	1-540-009-11	INLET, AC (∼ AC IN) (US,CND)	
< TRANSFORMER >			
△ T901	1-435-917-11	TRANSFORMER, POWER (US,CND,E92,MX)	
△ T901	1-435-918-21	TRANSFORMER, POWER (KR,SP)	
△ T901	1-435-922-11	TRANSFORMER, POWER (EA)	

*	A-3347-782-A	SOUND BOARD, COMPLETE	

< CAPACITOR >			
C401	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C402	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C403	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C404	1-164-156-11	CERAMIC CHIP 0.1uF	25V

Ref. No.	Part No.	Description	Remark
< DIODE >			
D401	6-500-655-01	LED SLI-343DC3FW (VOCAL)	
D402	6-500-655-01	LED SLI-343DC3FW (JAZZ)	
D403	6-500-655-01	LED SLI-343DC3FW (POP)	
D404	6-500-655-01	LED SLI-343DC3FW (ROCK)	
< JUMPER RESISTOR >			
JC411	1-216-864-11	METAL CHIP 0 5%	1/10W
< TRANSISTOR >			
Q401	8-729-029-13	TRANSISTOR DTC143ZUA-T106	
Q402	8-729-029-13	TRANSISTOR DTC143ZUA-T106	
Q403	8-729-029-13	TRANSISTOR DTC143ZUA-T106	
Q404	8-729-029-13	TRANSISTOR DTC143ZUA-T106	
< RESISTOR >			
R416	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R417	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R418	1-216-821-11	METAL CHIP 1K 5%	1/10W
R419	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R420	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R421	1-216-833-11	METAL CHIP 10K 5%	1/10W
R422	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R440	1-216-817-11	METAL CHIP 470 5%	1/10W
R441	1-216-817-11	METAL CHIP 470 5%	1/10W
R442	1-216-817-11	METAL CHIP 470 5%	1/10W
R449	1-216-817-11	METAL CHIP 470 5%	1/10W
< SWITCH >			
S429	1-786-050-21	SWITCH, KEYBOARD (ROCK)	
S430	1-786-050-21	SWITCH, KEYBOARD (POP)	
S431	1-786-050-21	SWITCH, KEYBOARD (JAZZ)	
S432	1-786-050-21	SWITCH, KEYBOARD (VOCAL)	
S433	1-786-050-21	SWITCH, KEYBOARD (FLAT)	

*	A-3683-864-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

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.

CFD-S550

TC

TEN KEY

Ref. No.	Part No.	Description	Remark		
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
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	METAL 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

Ref. No.	Part No.	Description	Remark		
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			

*	A-3347-775-A	TEN KEY BOARD, COMPLETE	*****		
< CONNECTOR >					
CNP401	1-784-726-11	CONNECTOR, FFC 4P			
< JUMPER RESISTOR >					
JC401	1-216-864-11	METAL CHIP	0	5%	1/10W
JC402	1-216-864-11	METAL CHIP	0	5%	1/10W
JC403	1-216-864-11	METAL CHIP	0	5%	1/10W
JC404	1-216-864-11	METAL CHIP	0	5%	1/10W
< 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
R458	1-216-833-11	METAL CHIP	10K	5%	1/10W
R459	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R460	1-216-821-11	METAL CHIP	1K	5%	1/10W
R461	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R462	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R463	1-216-821-11	METAL CHIP	1K	5%	1/10W
R464	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R465	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R466	1-216-833-11	METAL CHIP	10K	5%	1/10W
R467	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
< SWITCH >					
S413	1-786-050-21	SWITCH, KEYBOARD (>10)			
S414	1-786-050-21	SWITCH, KEYBOARD (0/10)			
S415	1-786-050-21	SWITCH, KEYBOARD (9)			
S416	1-786-050-21	SWITCH, KEYBOARD (MODE)			
S417	1-786-050-21	SWITCH, KEYBOARD (6)			
S418	1-786-050-21	SWITCH, KEYBOARD (5)			
S419	1-786-050-21	SWITCH, KEYBOARD (4)			
S420	1-786-050-21	SWITCH, KEYBOARD (3)			
S421	1-786-050-21	SWITCH, KEYBOARD (2)			
S422	1-786-050-21	SWITCH, KEYBOARD (1)			
S423	1-786-050-21	SWITCH, KEYBOARD (7)			
S424	1-786-050-21	SWITCH, KEYBOARD (8)			
S438	1-786-050-21	SWITCH, KEYBOARD (DISPLAY/ENT/MEMORY)			

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
*	A-3683-859-A	TUNER BOARD, COMPLETE (EA,KR,SP)					C65	1-126-963-11	ELECT	4.7uF	20%	50V	
*	A-3683-865-A	TUNER BOARD, COMPLETE (US,CND,E92,MX)					C66	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
		*****					C68	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
	3-237-724-01	TERMINAL, ANTENNA (CNP2)					C77	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
		< CAPACITOR >					C78	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	(EA,KR,SP) 50V (EA,KR,SP)	
C1	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C80	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		
C4	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C95	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		
C7	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V			< FILTER >					
C8	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V								
C9	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	CF2	1-760-023-11	FILTER, CERAMIC					
C10	1-126-960-11	ELECT	1uF	20%	50V	CF4	1-781-962-21	FILTER, CERAMIC					
C11	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V			< CONNECTOR >					
C12	1-126-963-11	ELECT	4.7uF	20%	50V								
C13	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
		(US,CND,E92,MX)					* CNP1	1-785-663-11	PIN, CONNECTOR (PC BOARD) 11P				
C14	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V			< TRIMMER >					
		(EA,KR,SP)											
C14	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	CT1	1-141-603-21	CAP, ADJ					
		(US,CND,E92,MX)					CT3	1-141-601-21	CAP, ADJ				
C15	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V			< DIODE >					
		(EA,KR,SP)											
C15	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V								
		(US,CND,E92,MX)					D1	8-719-078-48	DIODE	KV1471ETR1-3			
C18	1-126-934-11	ELECT	220uF	20%	10V	D2	8-719-078-48	DIODE	KV1471ETR1-3				
C20	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D3	8-719-050-69	DIODE	KV1520N				
							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								
C24	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	IC1	6-700-512-01	IC	TA2149BN				
C26	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	IC2	8-759-483-40	IC	LC72137M-TLM				
									< JUMPER RESISTOR >				
C27	1-162-927-11	CERAMIC CHIP	100PF	5%	50V								
C29	1-104-665-11	ELECT	100uF	20%	10V	JC1	1-216-864-11	METAL CHIP	0	5%	1/10W		
C30	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	JC2	1-216-864-11	METAL CHIP	0	5%	1/10W		
C31	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	JC3	1-216-864-11	METAL CHIP	0	5%	1/10W		
C32	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	JC4	1-216-864-11	METAL CHIP	0	5%	1/10W		
							JC5	1-216-864-11	METAL CHIP	0	5%	1/10W	
C33	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
C34	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	JC6	1-216-864-11	METAL CHIP	0	5%	1/10W		
C35	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	JC11	1-216-864-11	METAL CHIP	0	5%	1/10W		
C37	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	JC12	1-216-864-11	METAL CHIP	0	5%	1/10W		
C39	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	JC13	1-216-864-11	METAL CHIP	0	5%	1/10W		
							JC24	1-216-864-11	METAL CHIP	0	5%	1/10W	
C41	1-164-230-11	CERAMIC CHIP	220PF	5%	50V								
C42	1-162-927-11	CERAMIC CHIP	100PF	5%	50V								
C43	1-162-919-11	CERAMIC CHIP	22PF	5%	50V								
C47	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V								
C49	1-161-051-00	CERAMIC	0.01uF	10%	50V	JC33	1-216-864-11	METAL CHIP	0	5%	1/10W		
							JC34	1-216-864-11	METAL CHIP	0	5%	1/10W	
C51	1-162-919-11	CERAMIC CHIP	22PF	5%	50V			< COIL >					
C52	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V								
C53	1-136-169-00	FILM	0.22uF	5%	50V	L1	1-409-775-11	COIL, AIR-CORE					
C54	1-126-934-11	ELECT	220uF	20%	10V	L2	1-416-509-11	COIL, AIR-CORE					
C55	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	L3	1-754-117-12	ANTENNA, FERRITE-ROD (AM)					
							L4	1-411-234-21	COIL, AM OSC				
C56	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	L11	1-414-142-11	INDUCTOR	1uH	(US,CND,E92,MX)			
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	L21	1-410-509-11	INDUCTOR	10uH				
C61	1-162-927-11	CERAMIC CHIP	100PF	5%	50V			< RESISTOR >					
C62	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R1	1-216-815-11	METAL CHIP	330	5%	1/10W		
C63	1-162-927-11	CERAMIC CHIP	100PF	5%	50V								

Ref. No.	Part No.	Description			Remark
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	1-216-821-11	METAL CHIP	1K	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)			

*	A-3347-812-A	VOL BOARD, COMPLETE	*****		
	3-831-441-11	CUSHION (B)			
< CONNECTOR >					
CNP409	1-568-850-11	CONNECTOR, FFC 7P			
< JUMPER RESISTOR >					
JC014	1-216-864-11	METAL CHIP	0	5%	1/10W
JC410	1-216-864-11	METAL CHIP	0	5%	1/10W
< RESISTOR >					
R423	1-216-813-11	METAL CHIP	220	5%	1/10W
R424	1-216-817-11	METAL CHIP	470	5%	1/10W
R425	1-216-821-11	METAL CHIP	1K	5%	1/10W
R426	1-216-821-11	METAL CHIP	1K	5%	1/10W
R427	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
< SWITCH >					
S425	1-786-050-21	SWITCH, KEYBOARD (VOL -)			
S426	1-786-050-21	SWITCH, KEYBOARD (VOL +)			

Ref. No.	Part No.	Description	Remark
S427	1-786-050-21	SWITCH, KEYBOARD (MEGA Xpand)	
S428	1-786-050-21	SWITCH, KEYBOARD (MEGA BASS)	

*	1-688-686-11	VOL SEL BOARD (EA)	*****
< CONNECTOR >			
* CNP905	1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P (EA)	
< SWITCH >			
△ S901	1-552-921-00	SWITCH, POWER (VOLTAGE SELECTOR) (EA)	*****

MISCELLANEOUS			

105	1-757-689-11	CABLE, FLEXIBLE FLAT (16 CORE)	
112	1-452-899-11	MAGNET	
△ 303	8-820-161-02	OPTICAL PICK-UP KSS-213R/C2RP	
306	X-2162-707-1	CHASSIS ASSY (RDP) (RP), MOTOR (SPINDLE) (including M701)	
ANT1	1-754-241-11	ANTENNA, TELESCOPIC (FM)	
△ F901	1-533-460-11	FUSE, GLASS TUBE (DIA.5) (T315mA/250V) (EA)	
△ F902	1-533-468-11	FUSE, GLASS TUBE (DIA.5) (T2AL/250V) (EA)	
△ F902	1-533-469-11	FUSE, GLASS TUBE (DIA.5) (T2.5AL/250V) (KR,SP)	
△ F902	1-533-470-11	FUSE, GLASS TUBE (DIA.5) (3.15A/250V) (CND)	
HRP301	3-244-085-01	HEAD, R/P (REC/PB)	
M702	X-2162-712-1	GEAR ASSY (R) (RP), MOTOR (SLED)	
M801	3-244-082-01	MOTOR ASSY (CAPSTAN/REEL)	
S801	1-692-960-11	SWITCH, PUSH (1 KEY) (▲ PUSH OPEN/CLOSE)	
SP301	1-825-031-12	SPEAKER (10cm) (L-CH)	
SP302	1-825-031-12	SPEAKER (10cm) (R-CH)	

ACCESSORIES			

△	1-557-287-11	CORD, POWER (E92,MX)	
△	1-569-008-32	ADAPTOR, CONVERSION (EA)	
△	1-690-952-13	CORD, POWER (CND)	
△	1-769-412-21	CORD, POWER (EA,SP)	
△	1-776-985-11	CORD, POWER (KR)	
△	1-782-126-11	CORD, POWER (US)	
	3-027-153-11	LID, BATTERY CASE (for RMT-CS400A)	
	3-249-673-11	MANUAL, INSTRUCTION (ENGLISH) (US,CND,E92,MX)	
	3-249-673-21	MANUAL, INSTRUCTION (FRENCH) (CND)	
	3-249-673-31	MANUAL, INSTRUCTION (SPANISH) (E92,MX)	
	3-249-673-41	MANUAL, INSTRUCTION (ENGLISH) (EA,KR,SP)	
	3-249-673-51	MANUAL, INSTRUCTION (SPANISH) (SP)	
	3-249-674-91	MANUAL, INSTRUCTION (KOREAN) (KR)	
	3-249-675-11	MANUAL, INSTRUCTION (ARABIC) (EA)	
	A-3013-974-A	REMOTE COMMANDER (RMT-CS400A)	

CFD-S550

SONY®

SERVICE MANUAL

Ver 1.1 2004. 09

US Model
Canadian Model
E Model

SUPPLEMENT-1

File this supplement with the service manual.

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

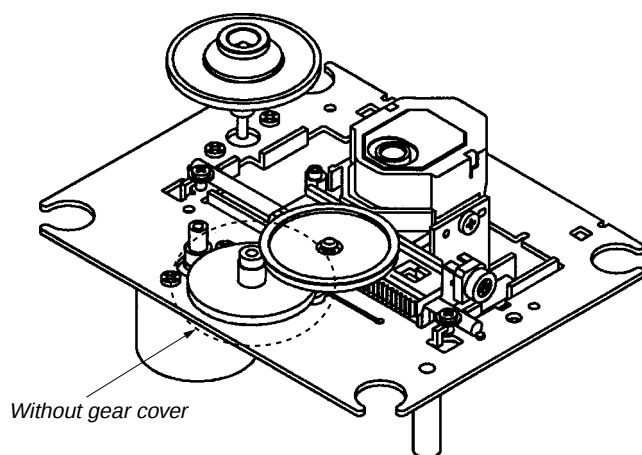
(SPM-04041)

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

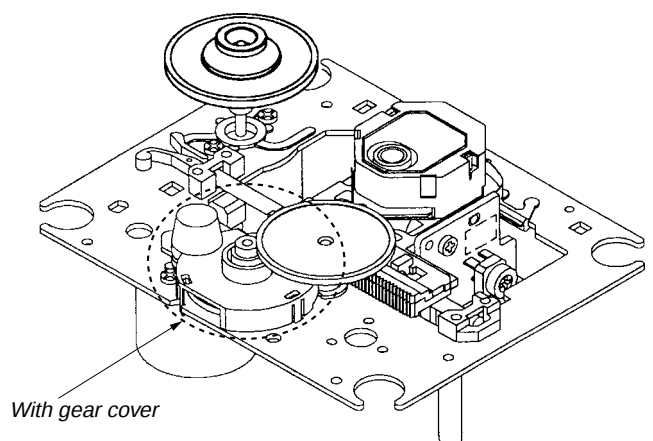
In performing the replacing of CD mechanism block, be sure to check which CD mechanism block is used, according to the following identification.
SUPPLEMENT-1 has indicated only the information of KSM-213CDP.

IDENTIFICATION

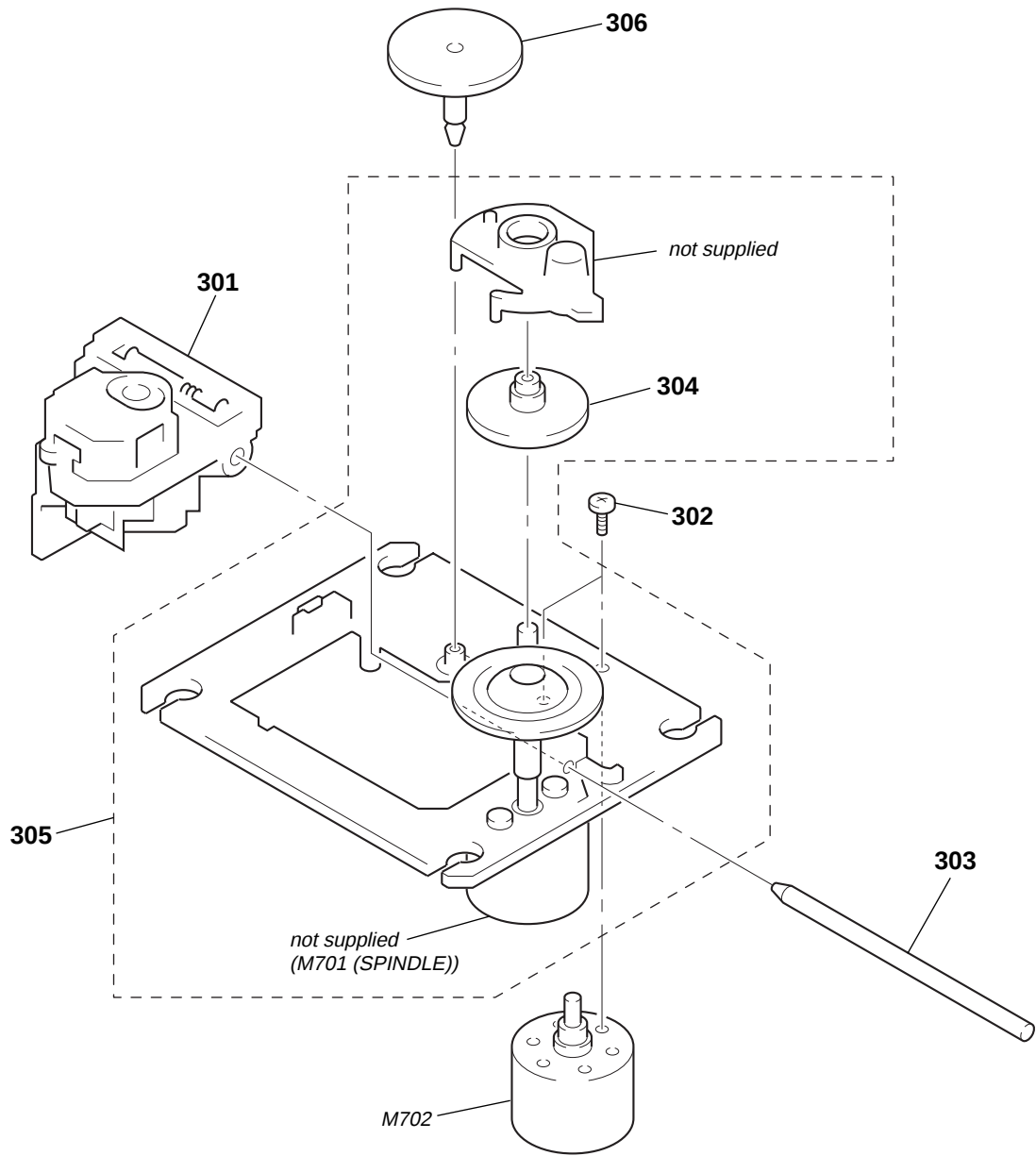
KSM-213RDP



KSM-213CDP



CD MECHANISM SECTION
(KSM-213CDP)



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
$\triangle$ 301	8-848-483-12	OPTICAL PICK-UP (KSS-213C/C2RP1)		305	X-2162-709-2	CHASSIS ASSY (CDP), MOTOR (including M701 (SPINDLE))	
302	2-174-500-01	SCREW (2X3)		306	2-626-907-11	GEAR (A)	
303	2-626-908-01	SHAFT, SLED		M702	X-2625-769-1	GEAR ASSY (MB) (RP), MOTOR (SLED)	
304	2-627-003-01	GEAR (B) (RP)					

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.

[illegible]