

CFD-E95

SERVICE MANUAL

Ver 1.2 2004.05

US Model
Canadian Model
E Model
Australian Model



CD Section	Model Name Using Similar Mechanism	CFD-E75
	Optical Pick-up Block Name	KSM-213RDP or KSM-213CDP
	Optical Pick-up Name	KSS-213R or KSS-213C
TAPE Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	MF-E95

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

(US model only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 4-ohm loads, both channels driven from 100 - 10 000 Hz; rated 1.5 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

Wow and flutter

Below measurable limit

Radio section

Frequency range

FM: 87.5 - 108 MHz

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

530 - 1 710 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. 110 sec. with Sony cassette C-60

Frequency response

TYPE I (normal): 50 - 15 000 Hz

General

Speaker

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

Outputs

Headphones jack (stereo minijack)

For 16 - 68 Ω impedance headphones

Power output

1.8 W + 1.8 W (at 4 Ω , 10 % harmonic distortion)

Power requirements

For CD radio cassette-corder

Except Singapore, Korean, Australian models:

120 V AC, 60 Hz

Korean model: 220 V AC, 60 Hz

Singapore, Australian models: 230 V AC, 50 Hz

9 V DC, 6 size C (R14) batteries

For memory back-up:

4.5 V DC, 3 size AA (R6) batteries

For remote control:

3 V DC, 2 size AAA (R03) batteries

Power consumption

AC 14 W

Battery life

For CD radio cassette-corder:

FM recording

Sony R14P: approx. 13.5 h

Sony alkaline LR14: approx. 20 h

Tape playback

Sony R14P: approx. 7.5 h

Sony alkaline LR14: approx. 15 h

CD playback

Sony R14P: approx. 2.5 h

Sony alkaline LR14: approx. 7 h

Dimensions

Approx. 272 \times 164 \times 285 mm (w/h/d)
(10 3/4 \times 6 1/2 \times 11 1/4 inches) (incl. projecting parts)

Mass

Approx. 3 kg (6 lb. 10 oz) (incl. batteries)

Supplied accessories

AC power cord (1)

Remote control (1)

Design and specifications are subject to change without notice.

CD RADIO CASSETTE-CORDER

9-877-061-03

2004E05-1

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Personal Audio Company

Published by Sony Engineering Corporation

SONY®

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Notes on chip component replacement

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

Flexible Circuit Board Repairing

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

CAUTION

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

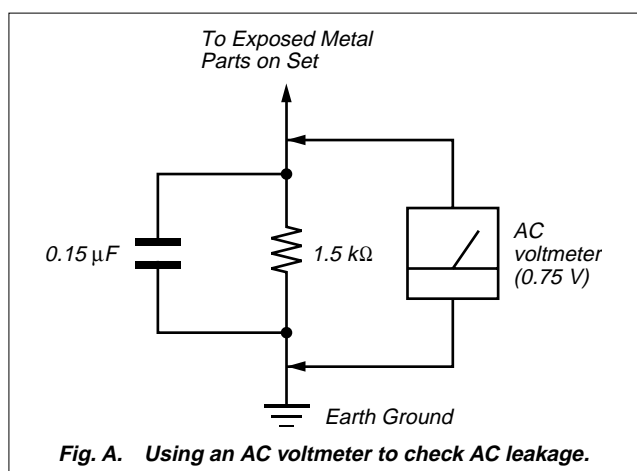
SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

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

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



About CD-Rs/CD-RWs

This CD player can play CD-Rs/CD-RWs recorded in the CD-DA format*, but playback capability may vary depending on the quality of the disc and the condition of the recording device.

*CD-DA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for the Audio CDs.

LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

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

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.

SECTION 1 SERVICING NOTES

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

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

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

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

During normal operation of the equipment, emission of the laser diode is prohibited unless the upper lid is closed while turning ON the S901. (push switch type)


The following checking method for the laser diode is operable.

• Method

Emission of the laser diode is visually checked.

1. Open the upper lid.
2. Push the S901 as shown in Fig. 1.

Note: Do not push the detection lever strongly, or it may be bent or damaged.

3. Press the  button.
4. Check the object lens for confirming normal emission of the laser diode. If not emitting, there is a trouble in the automatic power control circuit or the optical pick-up.

In this operation, the object lens will move up and down 2 times along with inward motion for the focus search.

CHUCK PLATE JIG ON REPAIRING

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

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

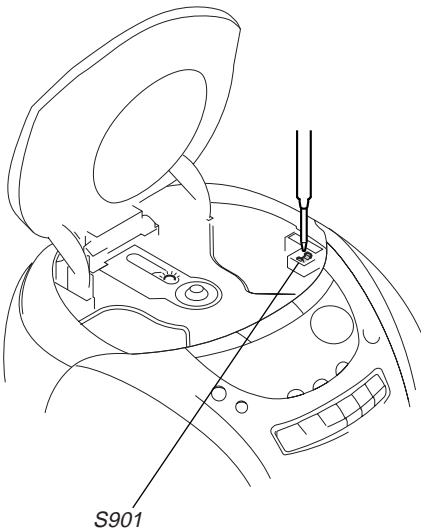
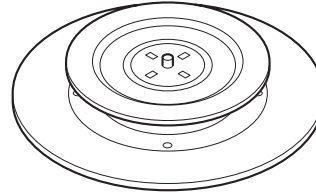



Fig.1 Method to push the S901

MODEL IDENTIFICATION

SONY®
MODEL NO. **CFD-E95**

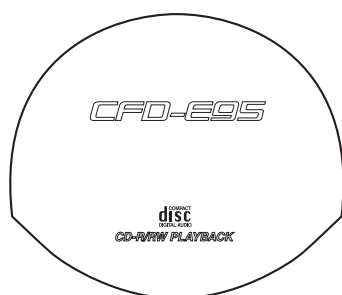


*US, Canadian, *E92, Taiwan models: AC: 120 V 60 Hz 14 W*
Singapore, Australian models: AC: 230 V 50 Hz 14 W
Korean model: AC: 220 V 60 Hz 14 W

*E92: Central and South America model

The CFD-E95 is available with four types and seven different color variations. How to identify the destination, type, and color variation is shown below.

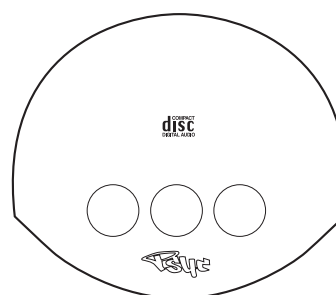
– CD LID Top View –



ORIGINAL TYPE
WALMART TYPE (US only)



LIV TYPE
(US only)



PSYC TYPE
(US, Canadian)

COLOR VARIATION

	ORIGINAL TYPE		WALMART TYPE	LIV TYPE	PSYC TYPE		
	SILVER	BLUE	WHITE	WHITE	RED	BLUE	YELLOW
US	-	-	○	○	○	○	○
CND	-	-	-	-	○	○	-
E92	○	○	-	-	-	-	-
SP	○	○	-	-	-	-	-
AUS	○	○	-	-	-	-	-
KR	○	○	-	-	-	-	-
TW	○	○	-	-	-	-	-

• Abbreviation

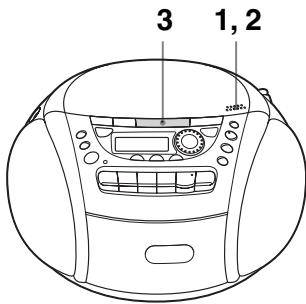
AUS: Australian model
CND: Canadian model

E92: Central and South American model
KR: Korean model

SP: Singapore model
TW: Taiwan model

Basic Operations

Playing a CD



Connect the supplied AC power cord.

1

Press **▲PUSH OPEN/CLOSE** down to open the CD compartment and place the CD on the CD compartment.

With the label side up

2

Close the lid of the CD compartment.

3

Press **▶||**.
The player turns on (direct power-on) and plays all the tracks once.

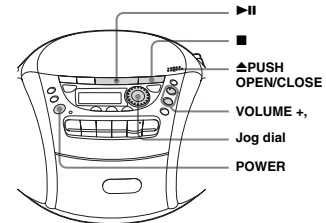
Display

01 00:02

Track number Playing time

4

Use these buttons for additional operations



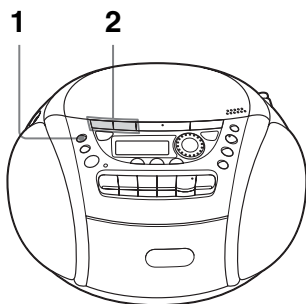
To	Do this
adjust the volume	Press VOLUME +*, (VOL +, on the remote).
stop playback	Press ■.
pause playback	Press ▶ *. Press the button again to resume play after pause.
go to the next track	Turn the jog dial clockwise. (On the remote, press ▶ .)
go back to the previous track	Turn the jog dial counterclockwise. (On the remote, press ◀ .)
remove the CD	Press ▲PUSH OPEN/CLOSE.
turn on/off the player	Press POWER.

* The button has a tactile dot.

Basic Operations

5

Listening to the radio



Connect the supplied AC power cord.

1

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

Display

AM 530

2

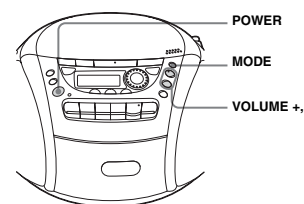
Hold down TUNE + or TUNE - until the frequency digits begin to change in the display.
The player automatically scans the radio frequencies and stops when it finds a clear station.
If you can't tune in a station, press the button repeatedly to change the frequency step by step.

Indicates an FM stereo broadcast

FM 89.2

Tip
If the FM broadcast is noisy, press MODE until **MONO** appears in the display and the radio will play in monaural.

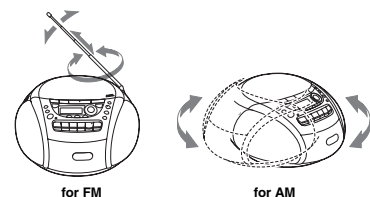
Use these buttons for additional operations



To	Press
adjust the volume	VOLUME +*, (VOL +, on the remote)
turn on/off the radio	POWER

* VOLUME + has a tactile dot.

To improve broadcast reception
Reorient the antenna for FM. Reorient the player itself for AM.



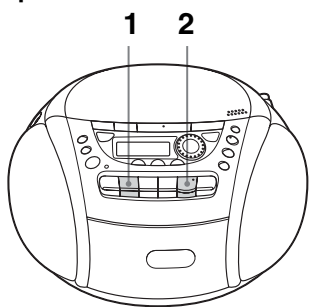
Basic Operations

6

6

7

Playing a tape




1 2

Connect the supplied AC power cord.

1

Press to open the tape compartment and insert a recorded tape. Use TYPE I (normal) tape only. Close the compartment.

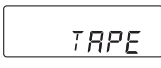
With the side you want to play facing you



2

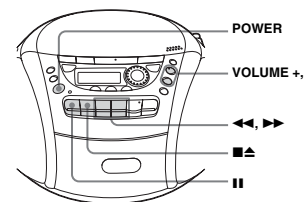
Press . The player turns on (direct power-on) and starts playing.

Display



8

Use these buttons for additional operations



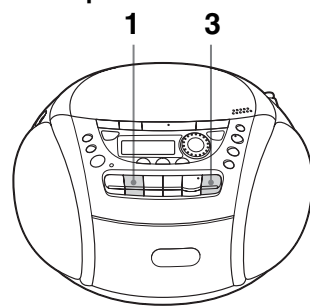
To	Press
adjust the volume	VOLUME +*, (VOL. +, on the remote)
stop playback	
fast-forward or rewind the tape	
pause playback	Press the button again to resume play after pause.
eject the cassette	
turn on/off the player	POWER

* VOLUME + and have a tactile dot.

Basic Operations

9

Recording on a tape



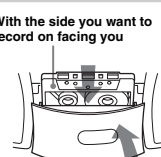
1 3

Connect the supplied AC power cord.

1

Press to open the tape compartment and insert a blank tape. Use TYPE I (normal) tape only.

With the side you want to record on facing you

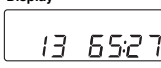


2

Select the program source you want to record.

To record from the CD player, insert a CD and press on the CD section.

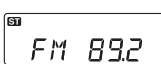
Display



To record from the radio, tune in the station you want.

RADIO BAND AUTO PRESET

Display

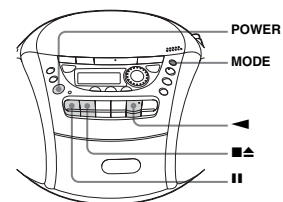


10

3

Press to start recording (is depressed automatically).

Use these buttons for additional operations



To	Press
stop recording	
pause recording	Press the button again to resume recording.
turn on/off the player	POWER

Tips

Adjusting the volume or the audio emphasis will not affect the recording level.

If the AM program makes a whistling sound after you've pressed in step 3, press MODE to select the position of ISS (Interference Suppress Switch) that decreases the noise the most.

For the best results, use the AC power as a power source.

To erase a recording, proceed as follows:

- 1 Insert the tape whose recording you want to erase.
- 2 Press FUNCTION on the remote repeatedly until TAPE appears.
- 3 Press .

Basic Operations

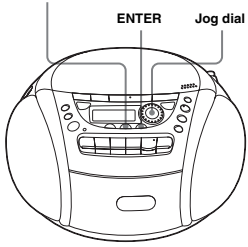
11

The Timer

Setting the clock

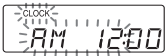
⊙ : ⊙ indication appears in the display until you set the clock.

CLOCK/SLEEP/TIMER



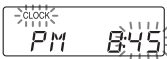
Before you set the clock, connect the power source.

- 1 Hold down **CLOCK/SLEEP/TIMER** until **⊙CLOCK⊙** appears in the display. The hour digit flashes.



- 2 Turn the jog dial to set the current hour. Then press **ENTER**.

The minute digits flash. Set the minutes by turning the jog dial until the correct minute is displayed.



- 3 Press **ENTER**.
The clock starts from 00 seconds.

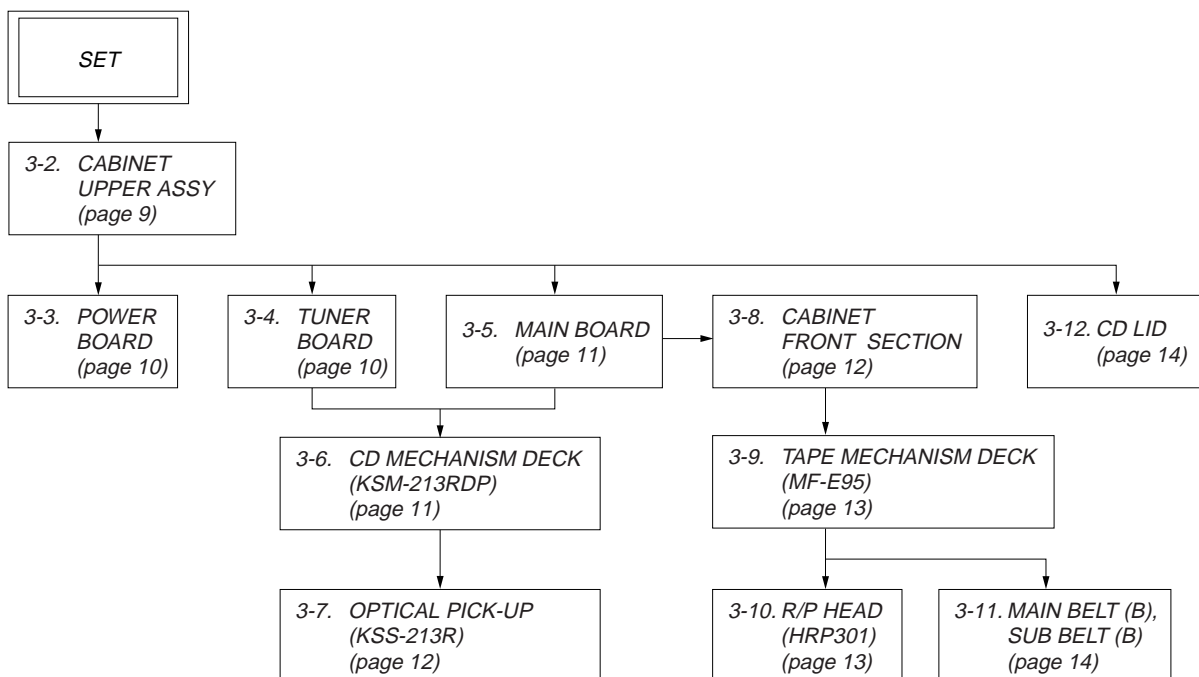
Tip

The time display system: 12-hour system
AM 12:00 = midnight
PM 12:00 = noon

SECTION 3 DISASSEMBLY

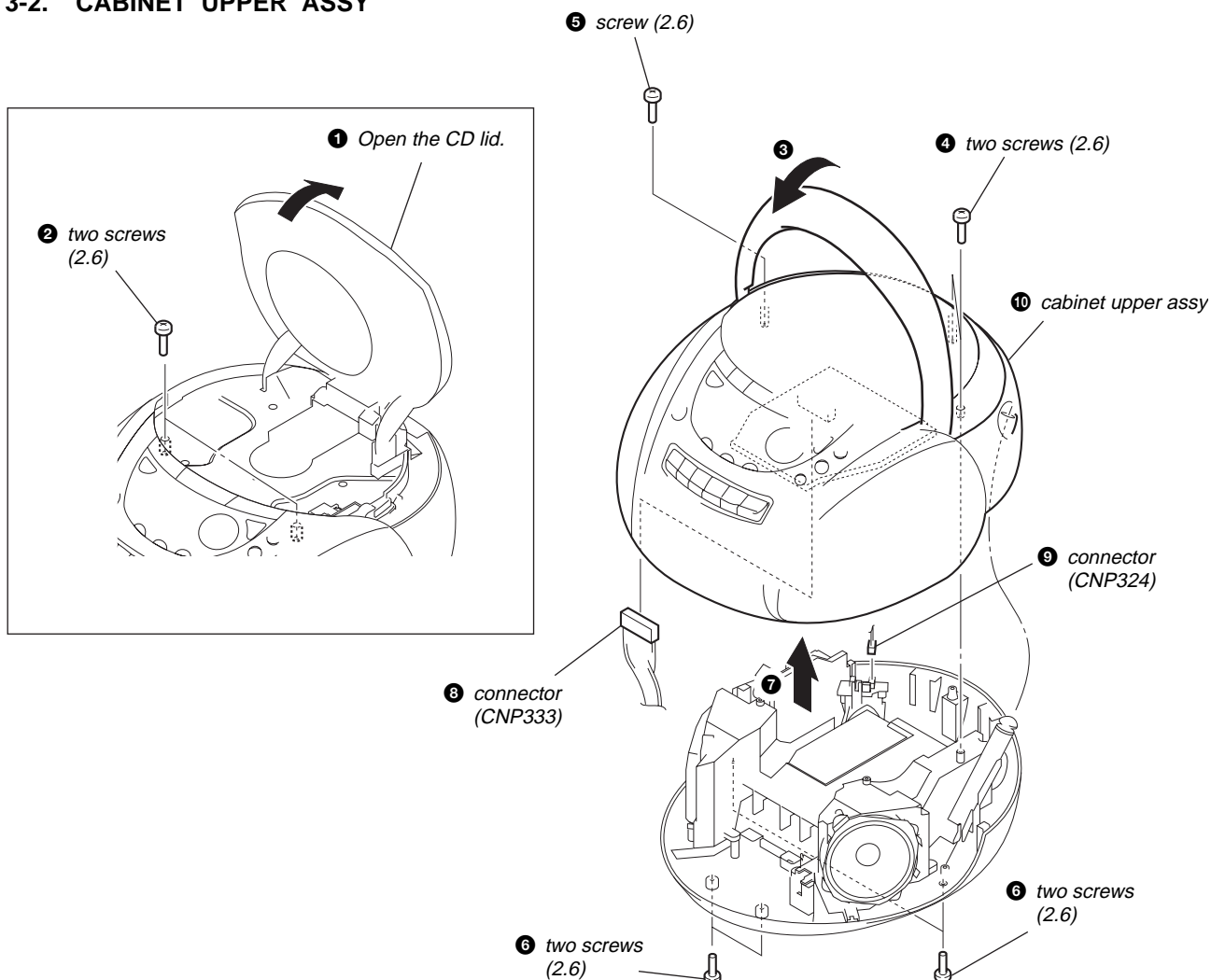
• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

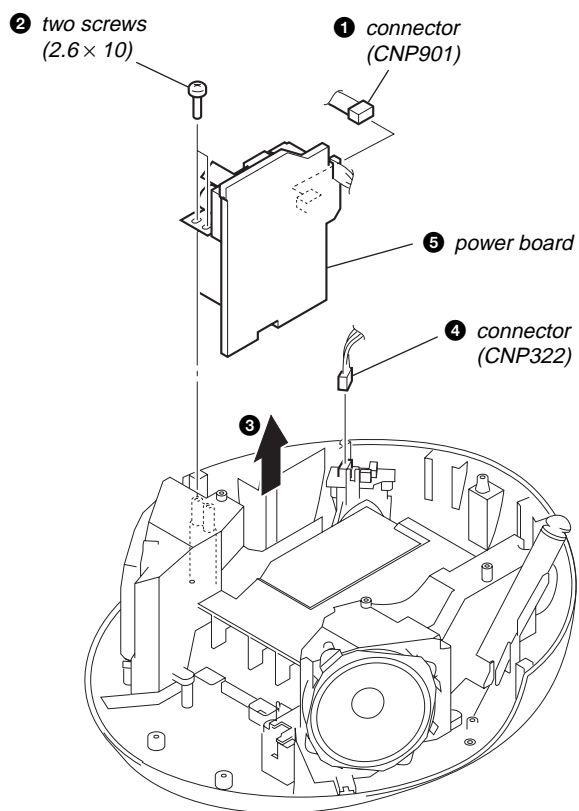


Note: Follow the disassembly procedure in the numerical order given.

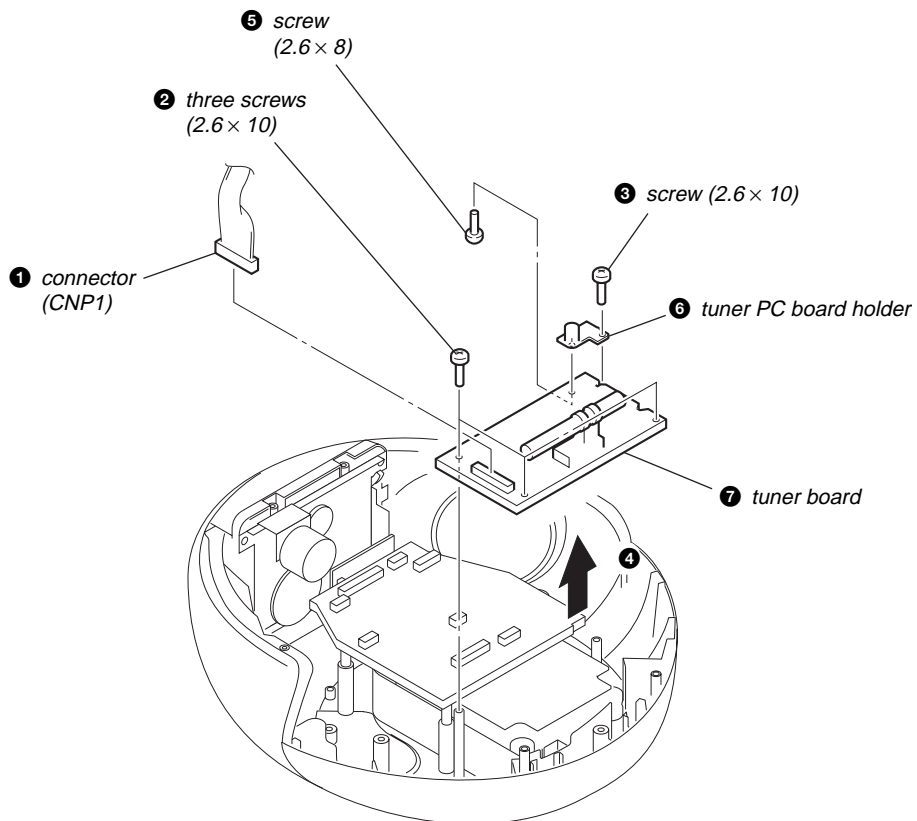
3-2. CABINET UPPER ASSY



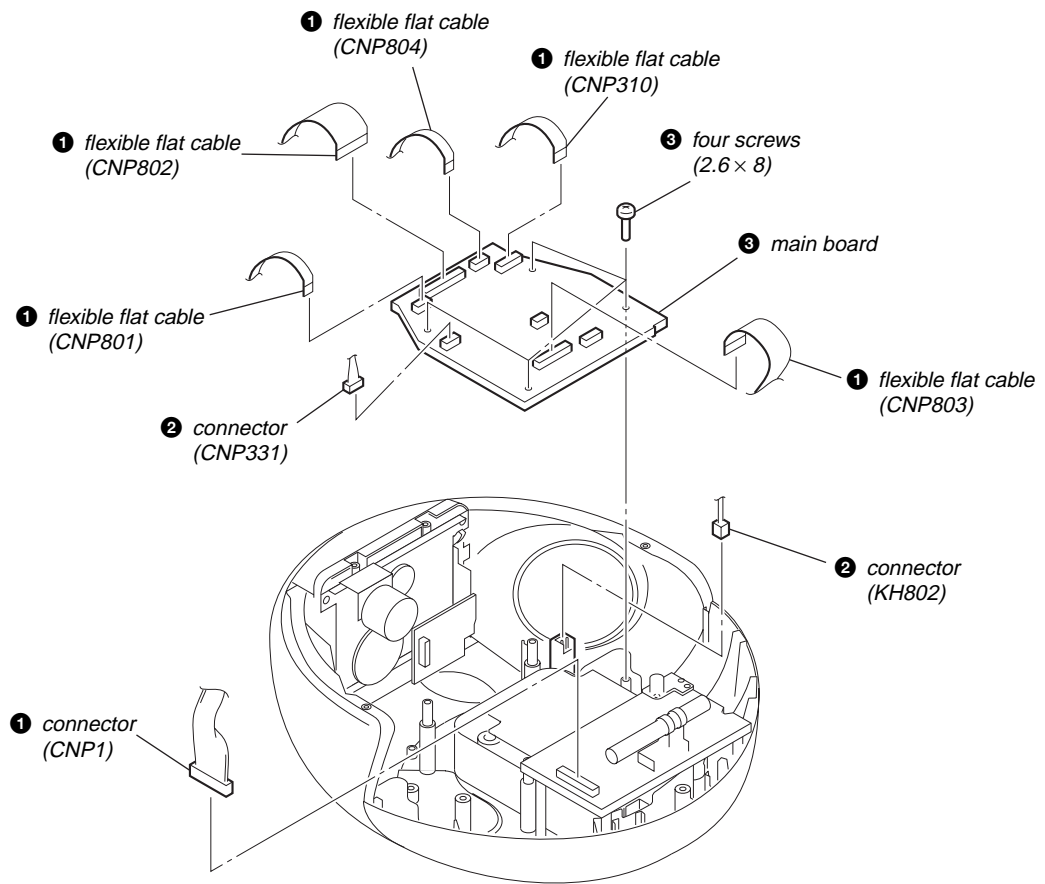
3-3. POWER BOARD



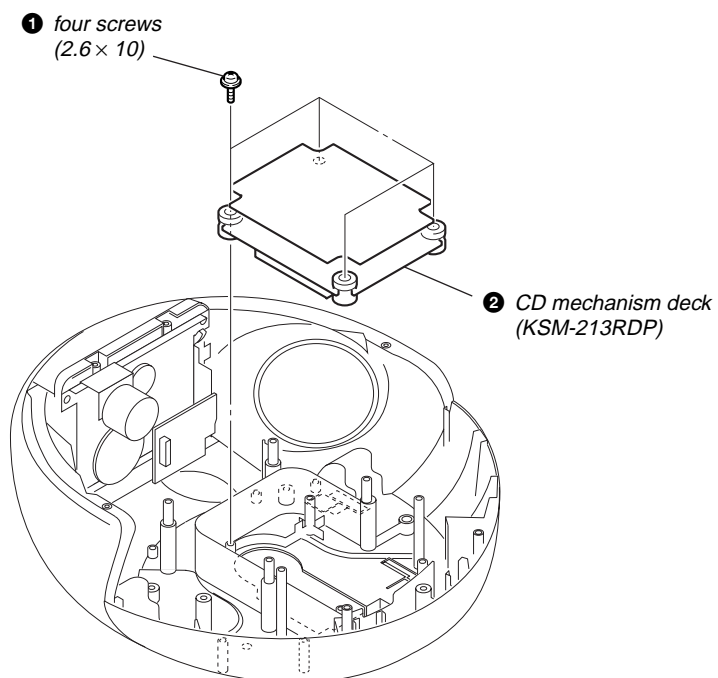
3-4. TUNER BOARD



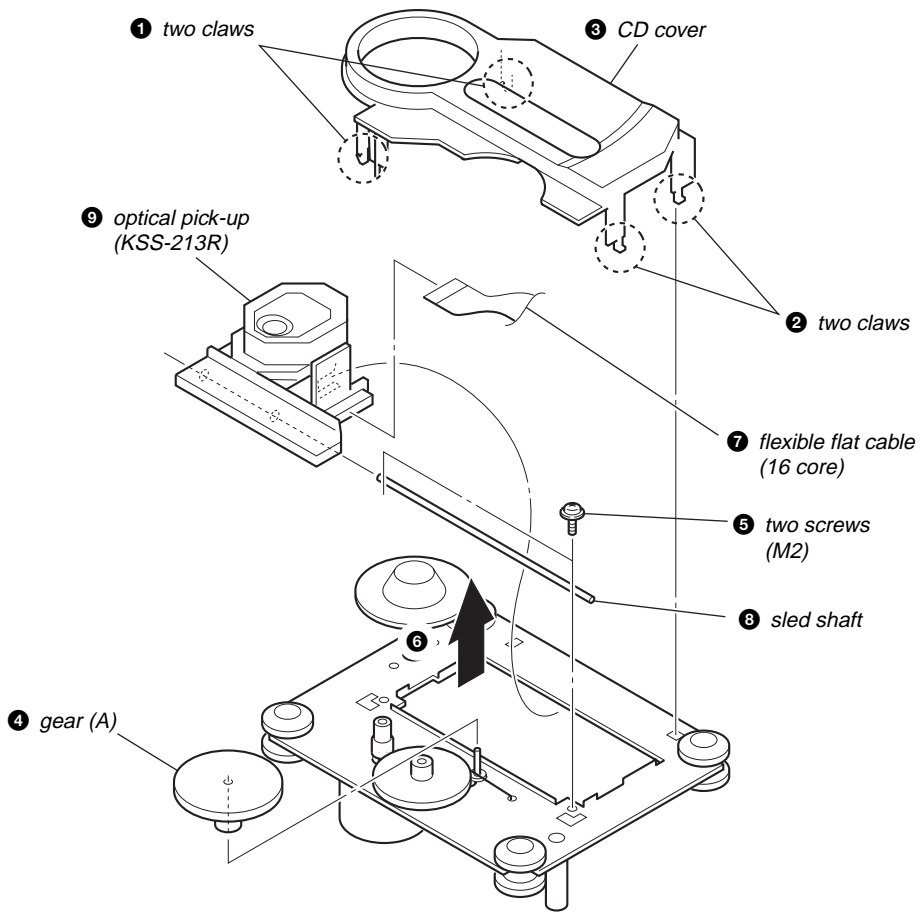
3-5. MAIN BOARD



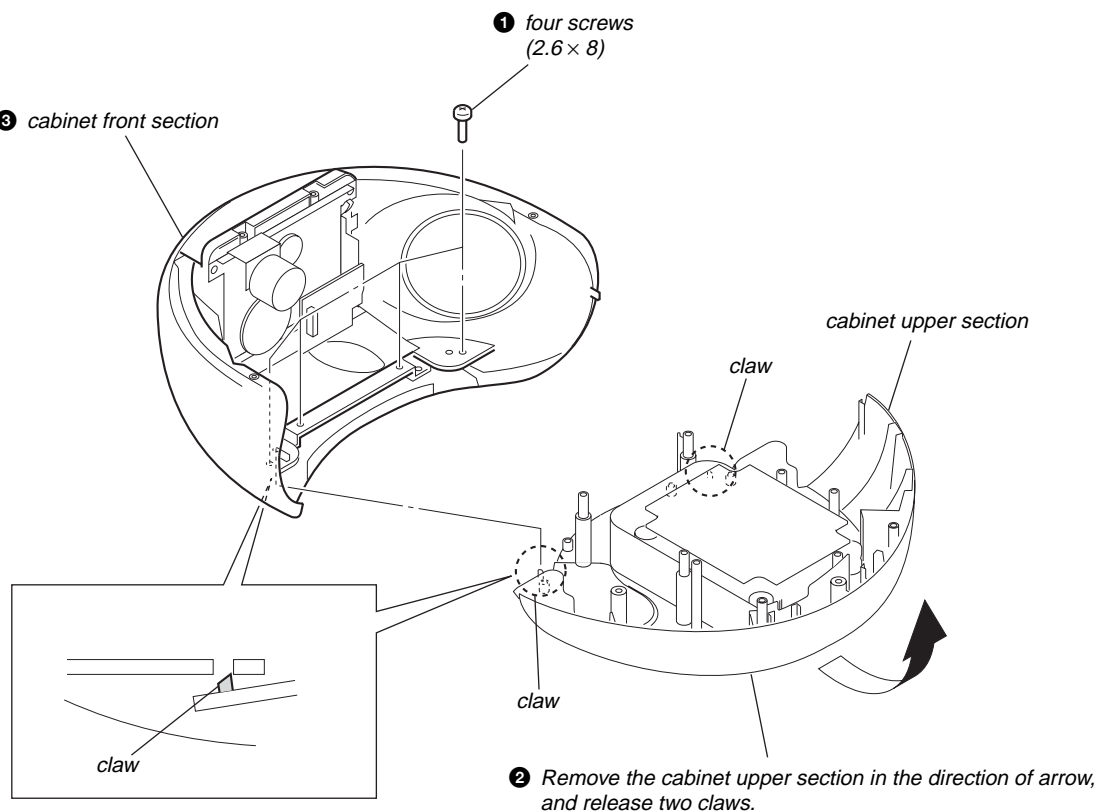
3-6. CD MECHANISM DECK (KSM-213RDP)



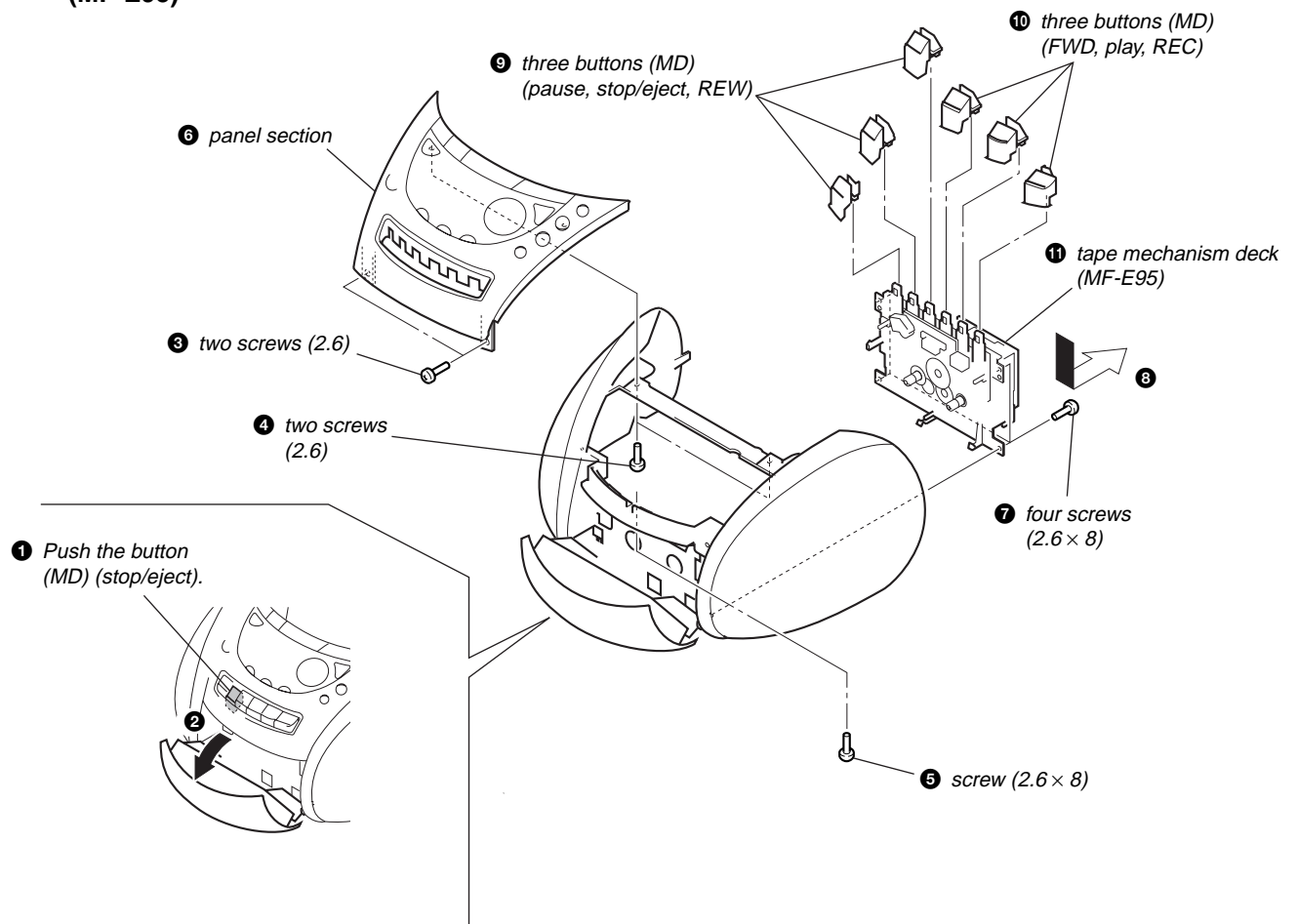
3-7. OPTICAL PICK-UP
(KSS-213R)



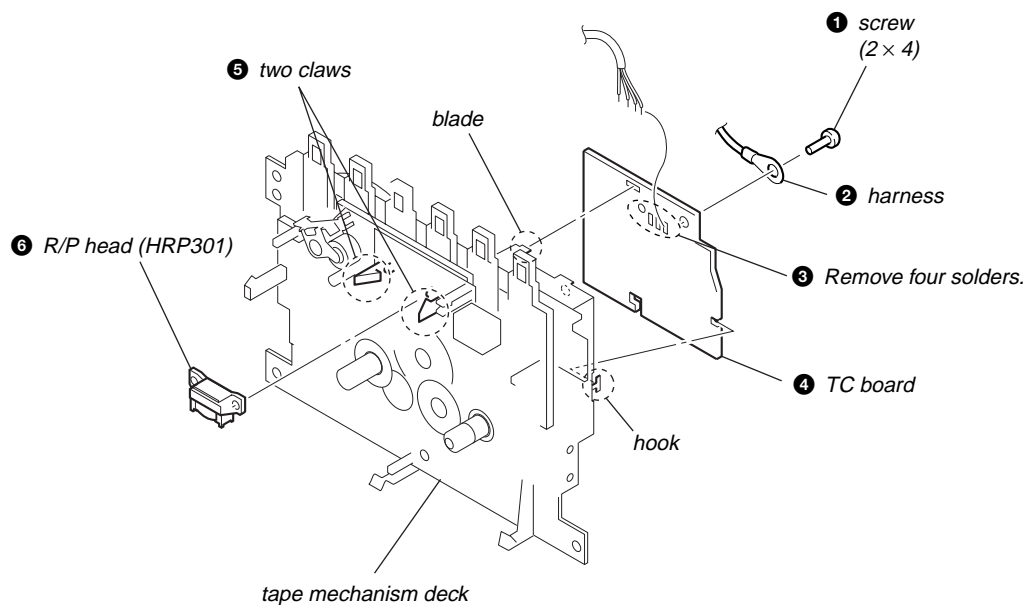
3-8. CABINET FRONT SECTION



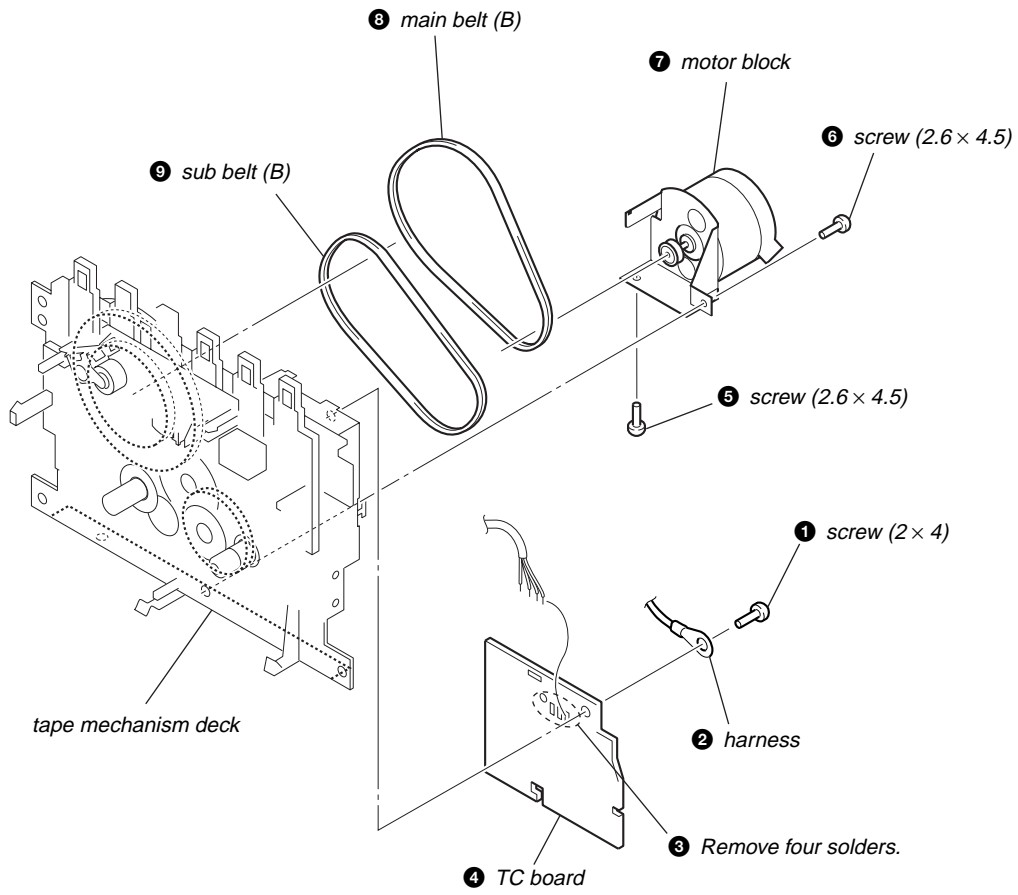
3-9. TAPE MECHANISM DECK (MF-E95)



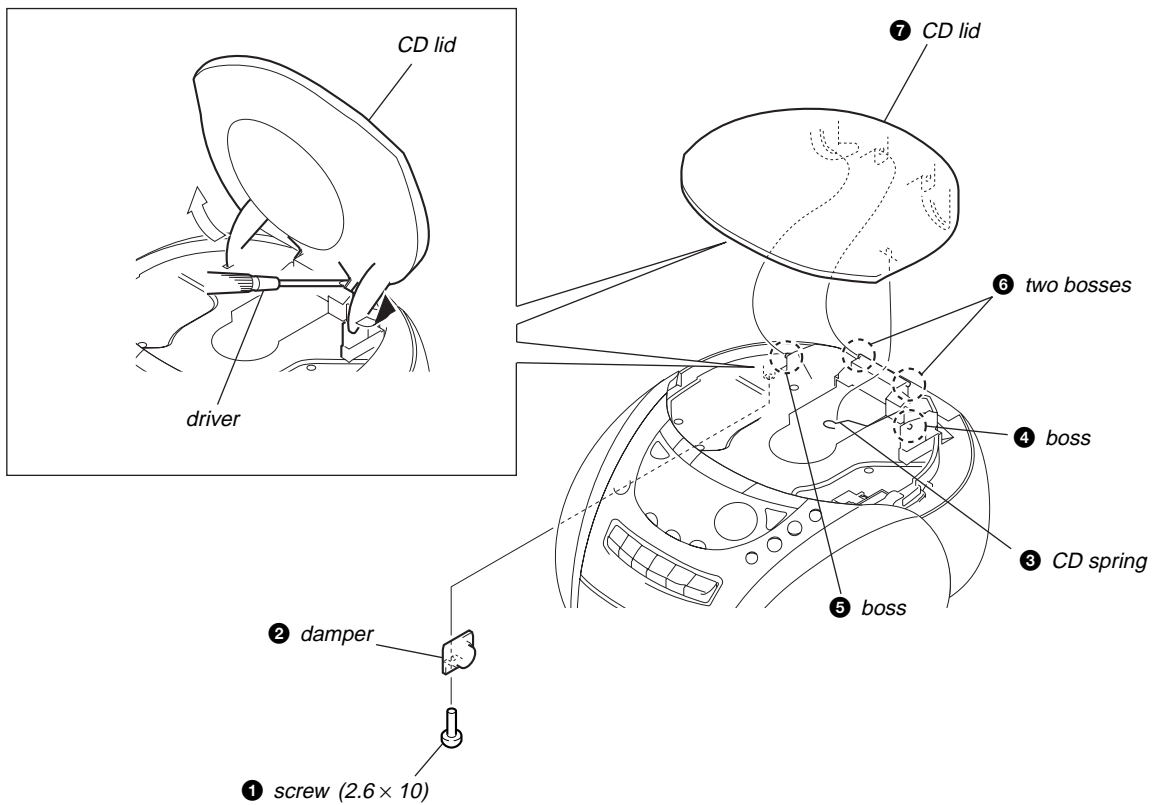
3-10. R/P HEAD (HRP301)



3-11. MAIN BELT (B), SUB BELT (B)



3-12. CD LID



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 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 – 5.39 mN•m (1.5 – 5.5 g•cm) (0.021 – 0.076 oz•inch)
FF	CQ-201B	more than 5.89 mN•m (more than 60 g•cm) (more than 0.83 oz•inch)
REW	CQ-201B	more than 5.89 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

PRECAUTION

- Setting
MEGABASS control : OFF

TAPE DECK SECTION

0 dB=0.775 V

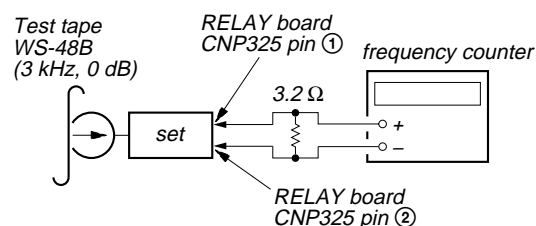
Test tape

Type	Signal	Used for
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment

TAPE SPEED ADJUSTMENT

Setting:

Function: TAPE



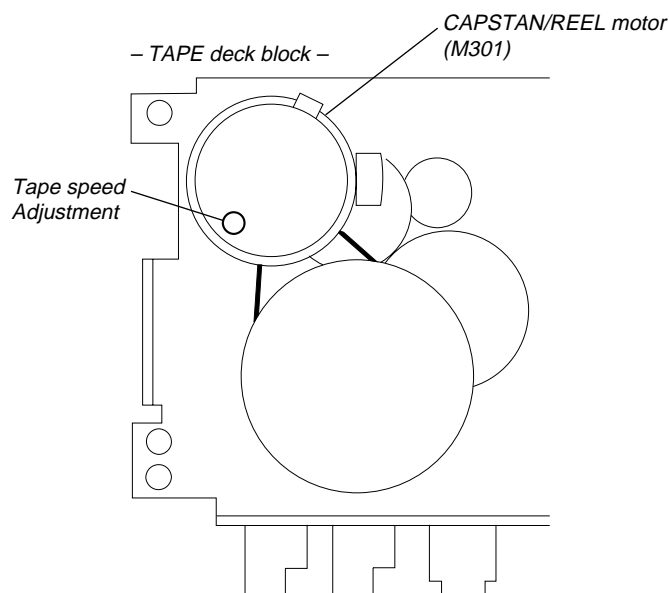
Procedure:

- Playback WS-48B (tape center) in the FWD state.
- Adjust the volume in CAPSTAN/REEL motor (M301) so that the frequency counter reading becomes 3,000 Hz.

Specified Value: 2,910 to 3,090 Hz

- Confirm that the frequency at the beginning and that at the end of tape winding are between 2,940 to 3,060 Hz.

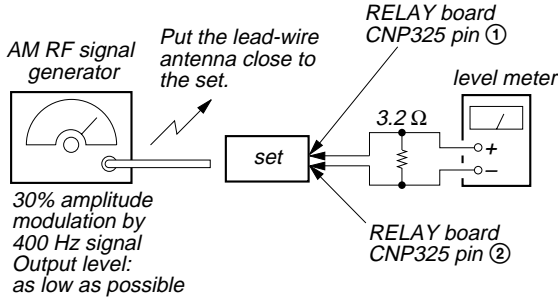
Adjustment Location:



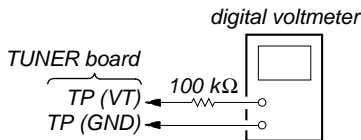
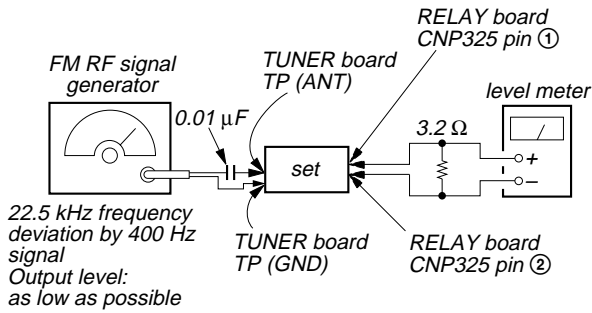
Sample Value of Wow and Flutter: 0.3% or less W.RMS (JIS)
(WS-48B)

TUNER SECTION 0 dB=1 μ V

[AM]
Setting:
 Function : RADIO
 BAND button : AM



[FM]
Setting:
 Function : RADIO
 BAND button: FM



AM IF ADJUSTMENT	
Adjust for a maximum reading on level meter	
T1	450 kHz

(): Singapore, Taiwan, Korean, Australian model

AM VCO VOLTAGE ADJUSTMENT	
Frequency Display	Reading on Digital Voltmeter
530 (531) kHz	1.0 \pm 0.1 V
1,710 (1,611) kHz	5.3 \pm 0.7 V

(): Singapore, Taiwan, Korean, Australian model

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L3	620 (621) kHz
CT3	1,400 (1,404) kHz

FM IF ADJUSTMENT	
Adjust for a minimum reading on level meter	
T2	10.7 MHz

FM VCO VOLTAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L2	108 MHz	3.0 \pm 0.2 V
Confirmation	87.5 MHz	1.3 \pm 0.3 V

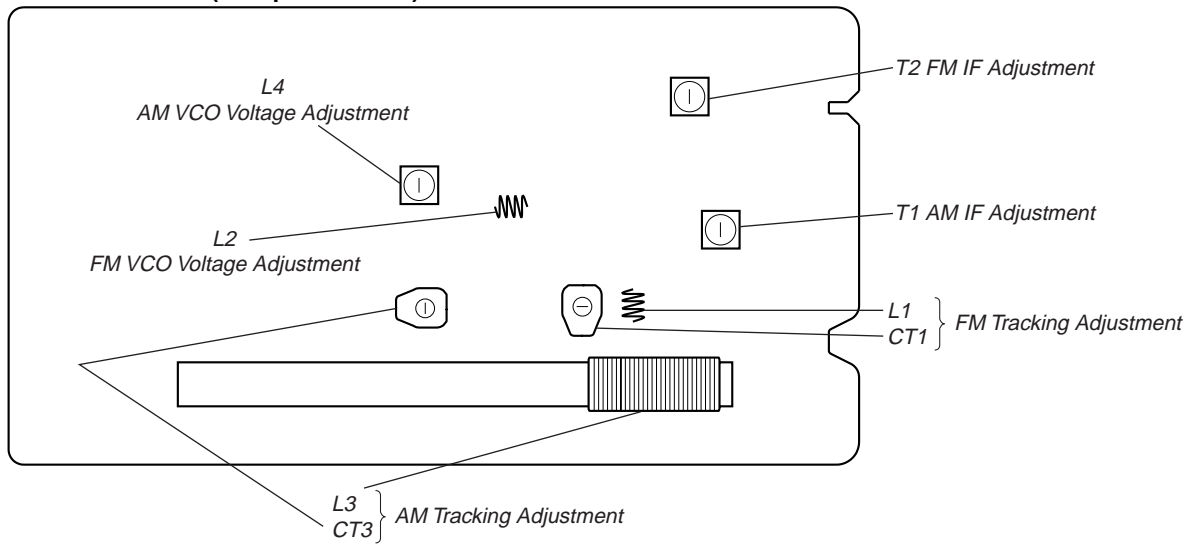
FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L1	87.5 MHz
CT1	108 MHz

Adjustment Location: TUNER and RELAY board (See page 17)

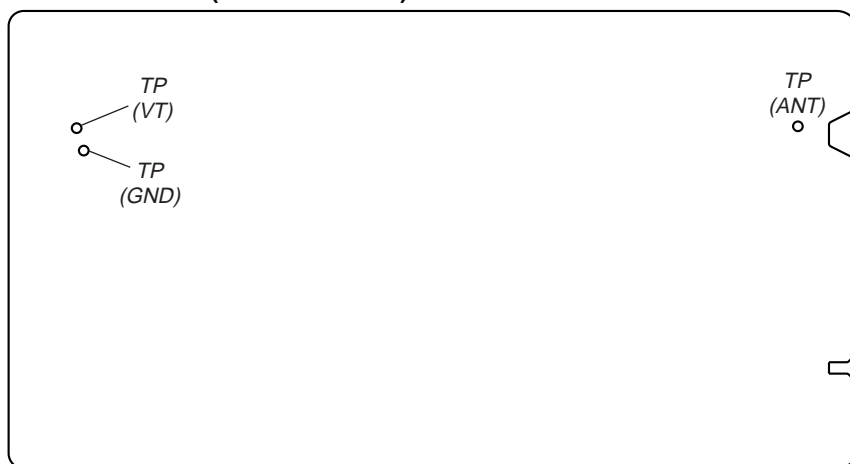
- Repeat the procedures in each adjustment several times, and the tracking adjustments should be finally done by the trimmer capacitors.
- Remove FM antenna in FM adjustment.

Adjustment Location:

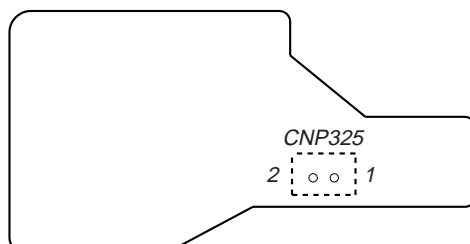
- TUNER BOARD (Component Side) -



- TUNER BOARD (Conductor Side) -




- RELAY BOARD (Conductor Side) -



CD SECTION

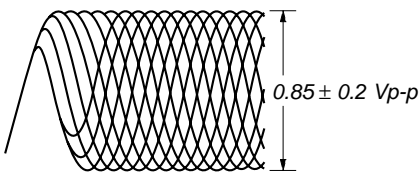
CD section adjustments are done automatically in this set.
 In case of operation check, confirm that focus bias.

Focus Bias Check

1. Connect the oscilloscope to TP (RF) and TP (GND) on the CD board.
2. Insert the disc (YEDS-18). (Part No. : 3-702-101-01)
3. Press the  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)**

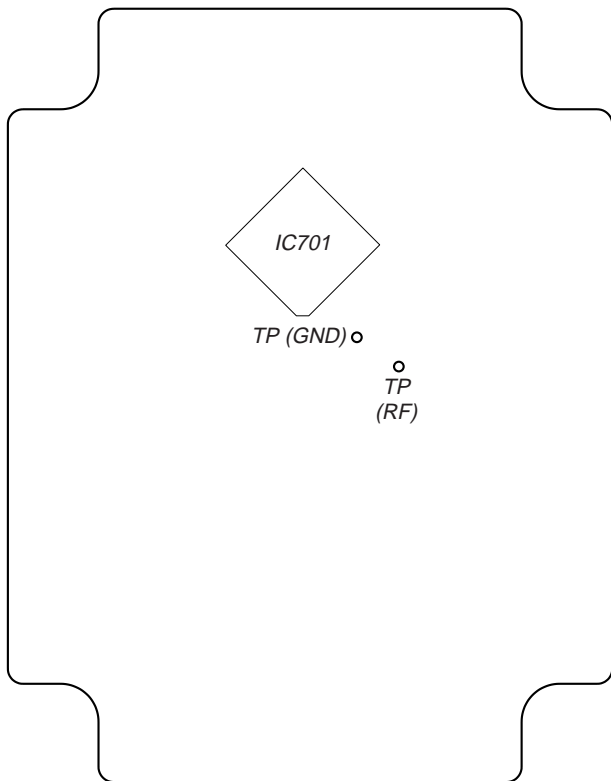
VOLT/DIV: 0.2 V (with the 10: 1 probe in use.)
TIME/DIV: 500 ns



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

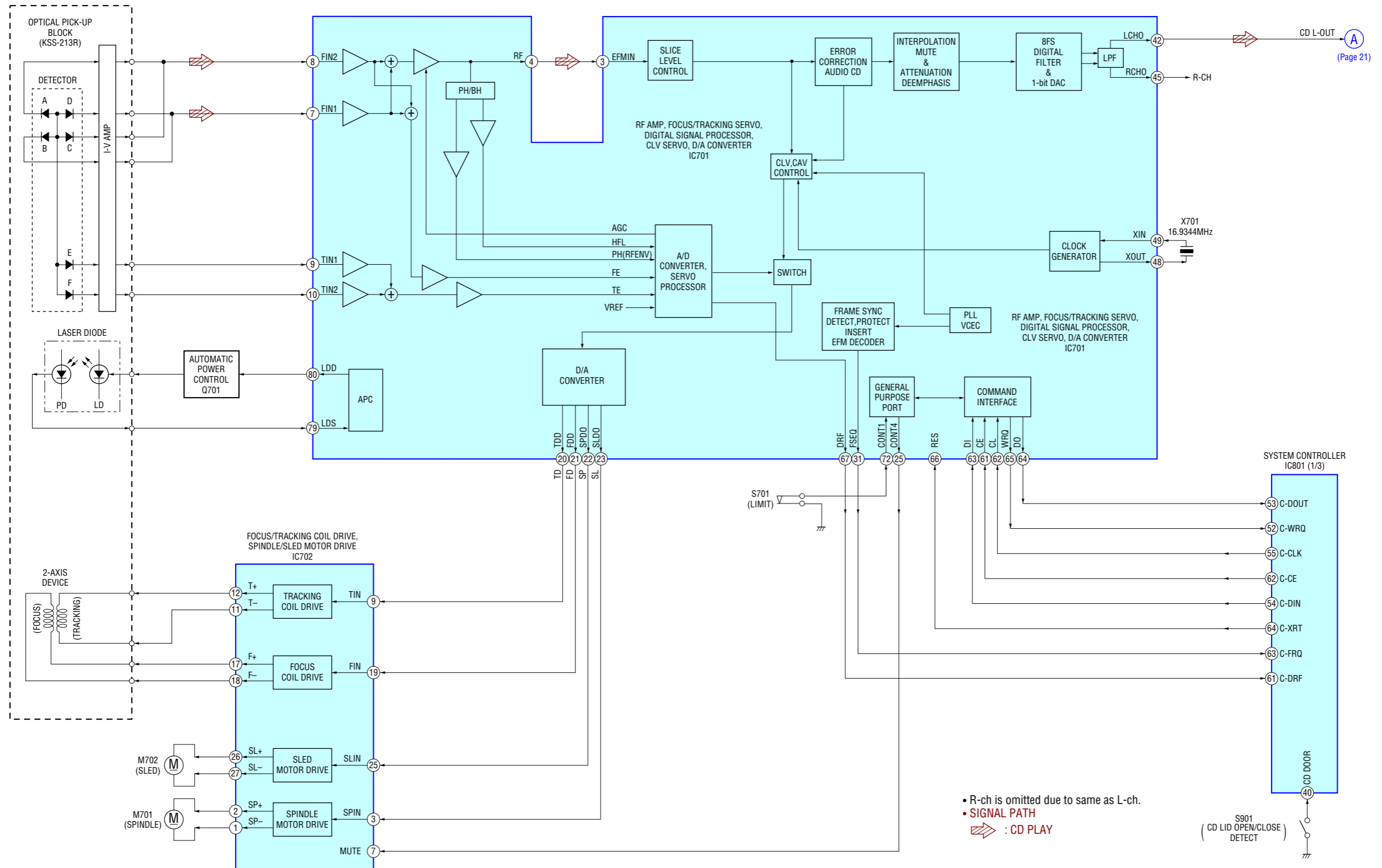
Adjustment Location:

– CD BOARD (Conductor Side) –

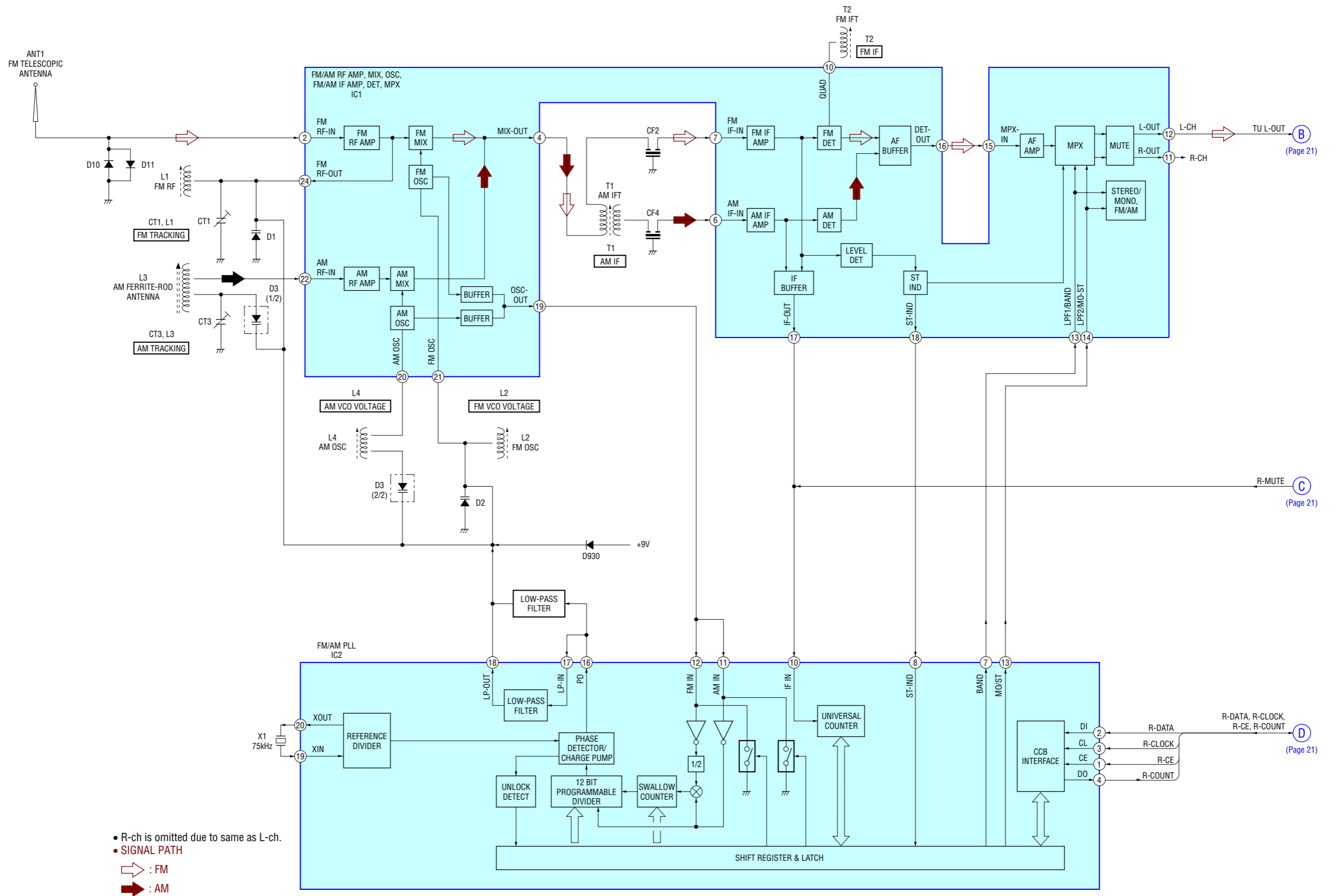


SECTION 6
DIAGRAMS

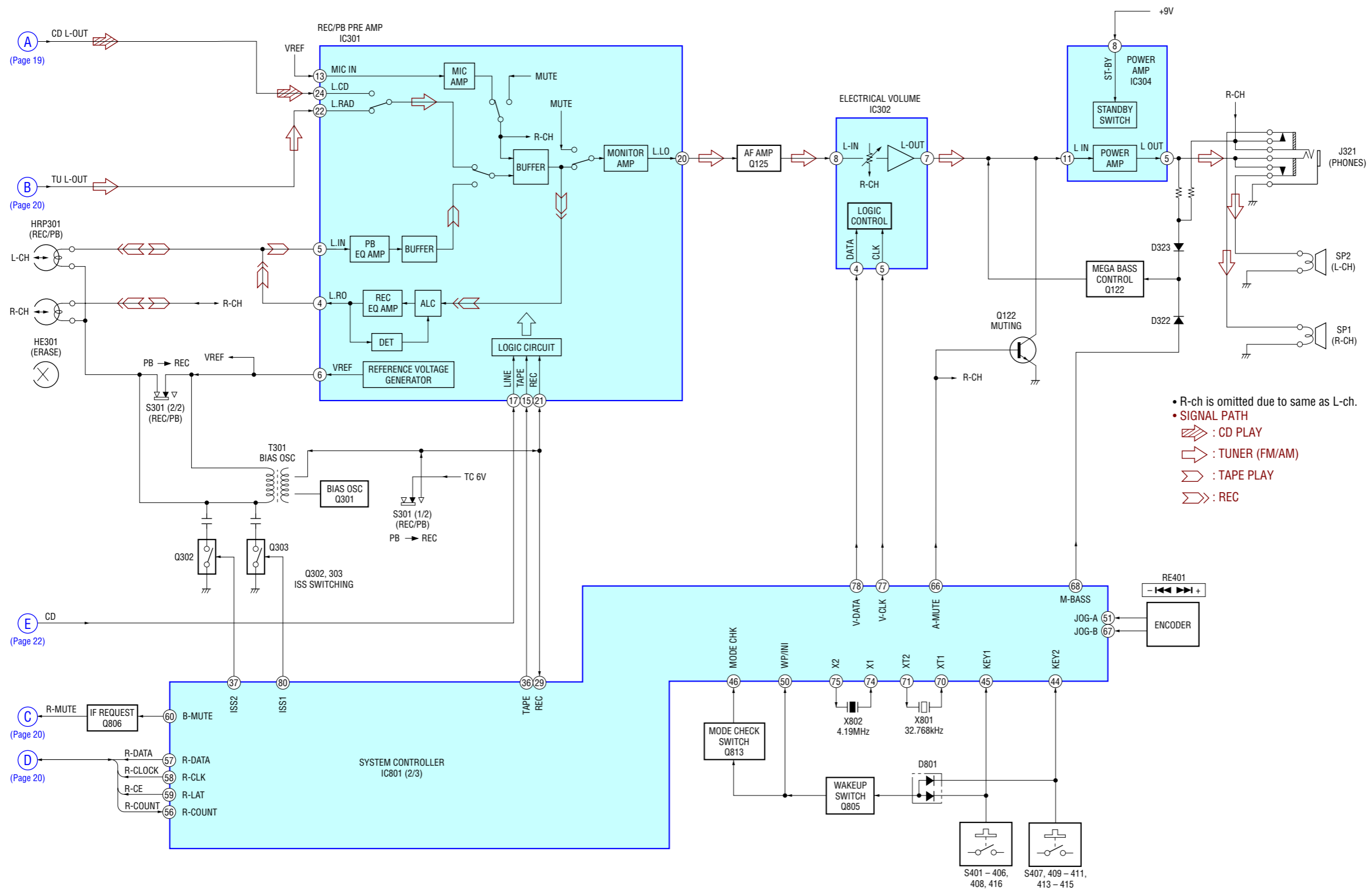
6-1. BLOCK DIAGRAM – CD Section –



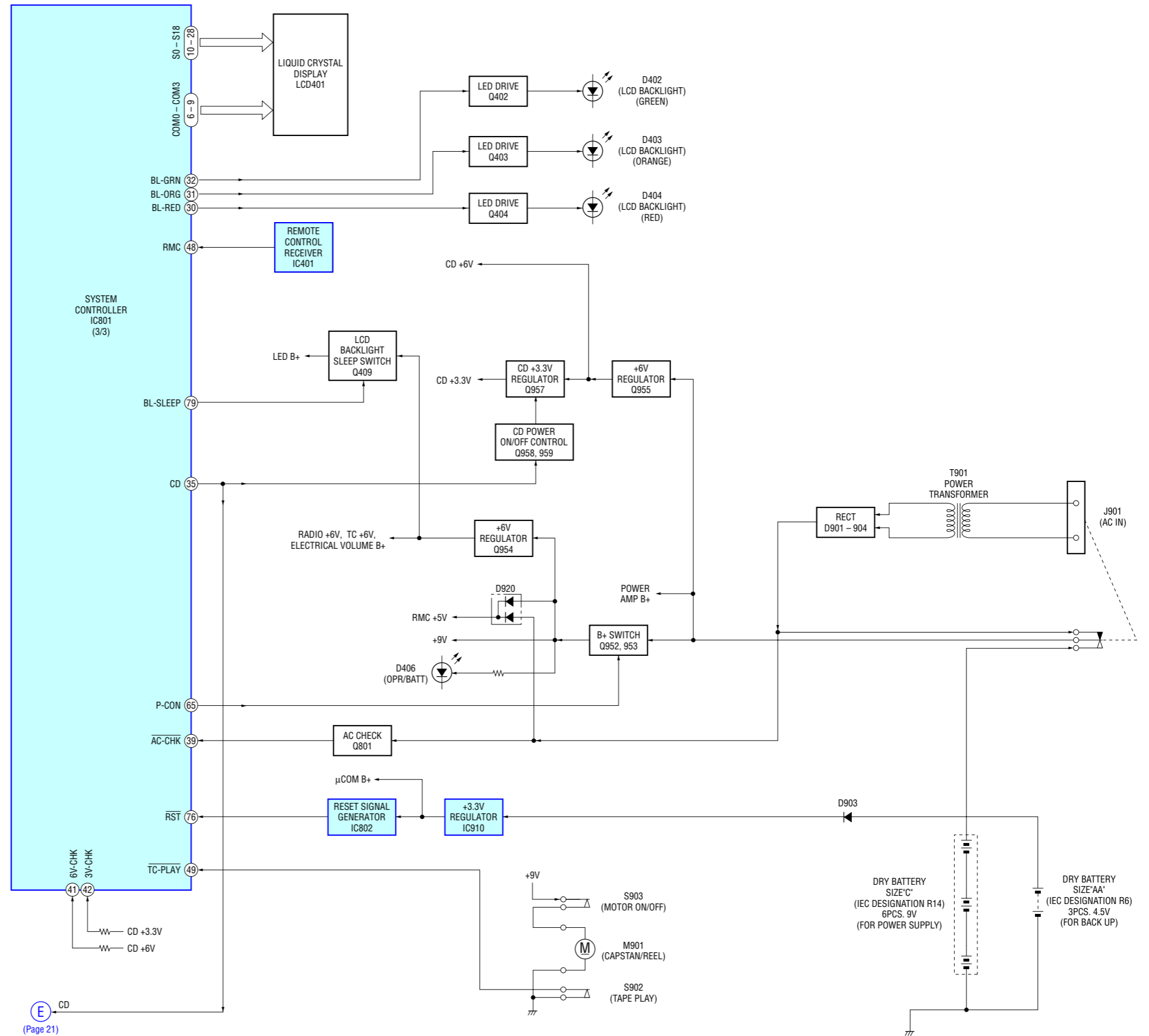
6-2. BLOCK DIAGRAM – TUNER Section –



6-3. BLOCK DIAGRAM – MAIN Section –








6-4. BLOCK DIAGRAM – POWER SUPPLY Section –



(Page 21)



6-5. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS
(In addition to this, the necessary note is printed in each block)

Note on Printed Wiring Boards:

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

Caution:
 Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.
 (Conductor Side)
 Parts face side: Parts on the parts face side seen from the parts face are indicated.
 (Component Side)

Note on Schematic Diagram:








- 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.
-  : internal component.
-  : panel designation.

Note:

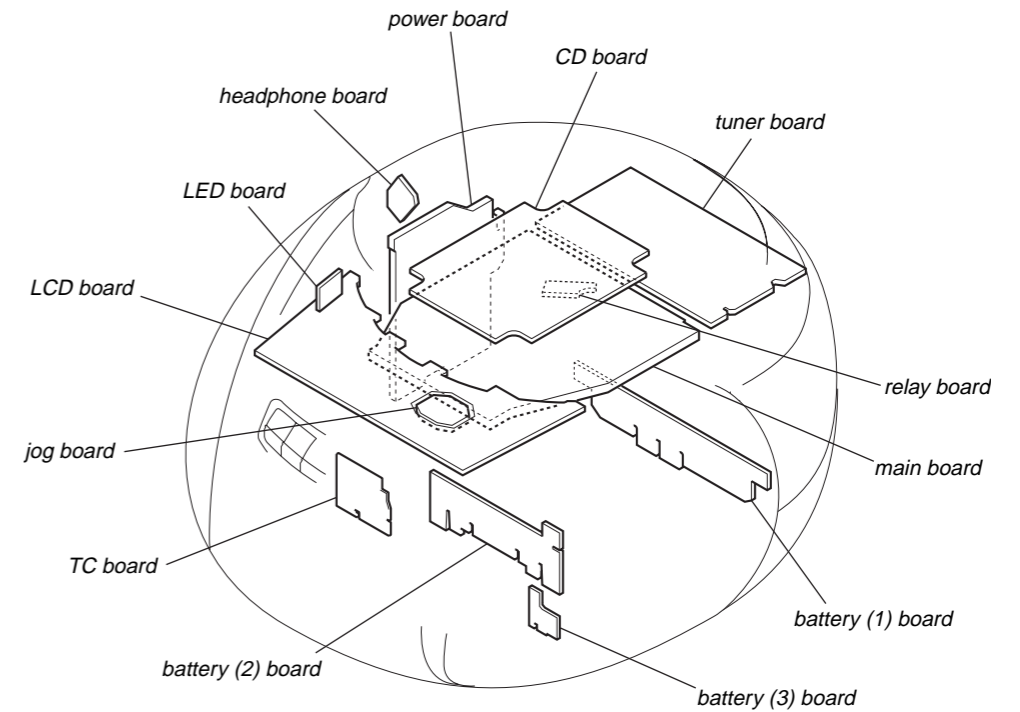
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note:


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

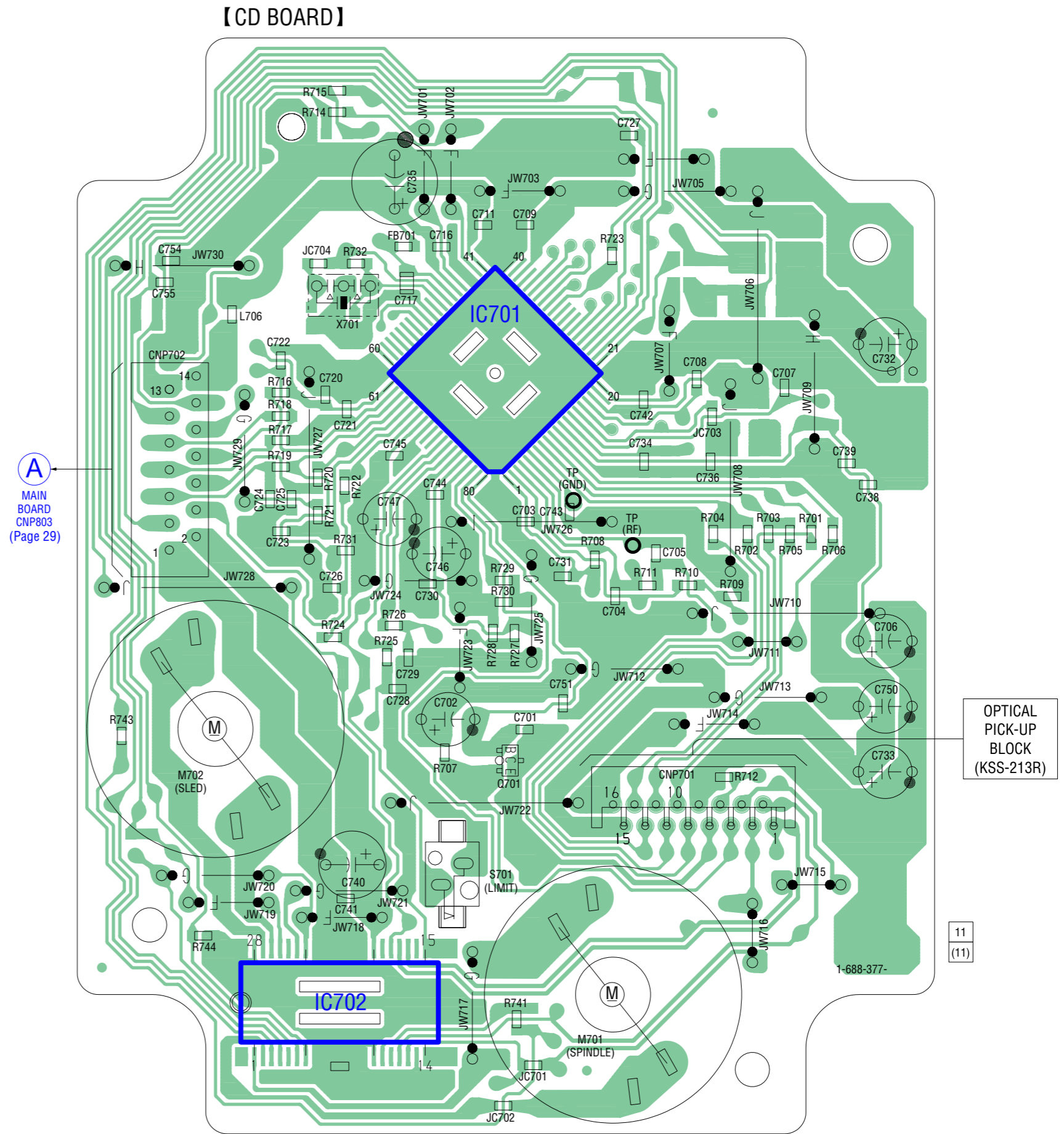
-  : B+ Line.
-  : adjustment for repair.
- Total current is measured with no cassette installed.
- Power voltage is dc 9V and fed with regulated dc power supply from battery terminal.
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- 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
 -  : TAPE PLAY
 -  : REC
 -  : CD PLAY (ANAROG OUT)
- Abbreviation
 - AUS : Australian model
 - CND : Canadian model
 - KR : Korean model
 - SP : Singapore model
 - TW : Taiwan model
- Please refer to "SERVICING NOTES" on page 5 about model variation.

• **Circuit Boards Location**

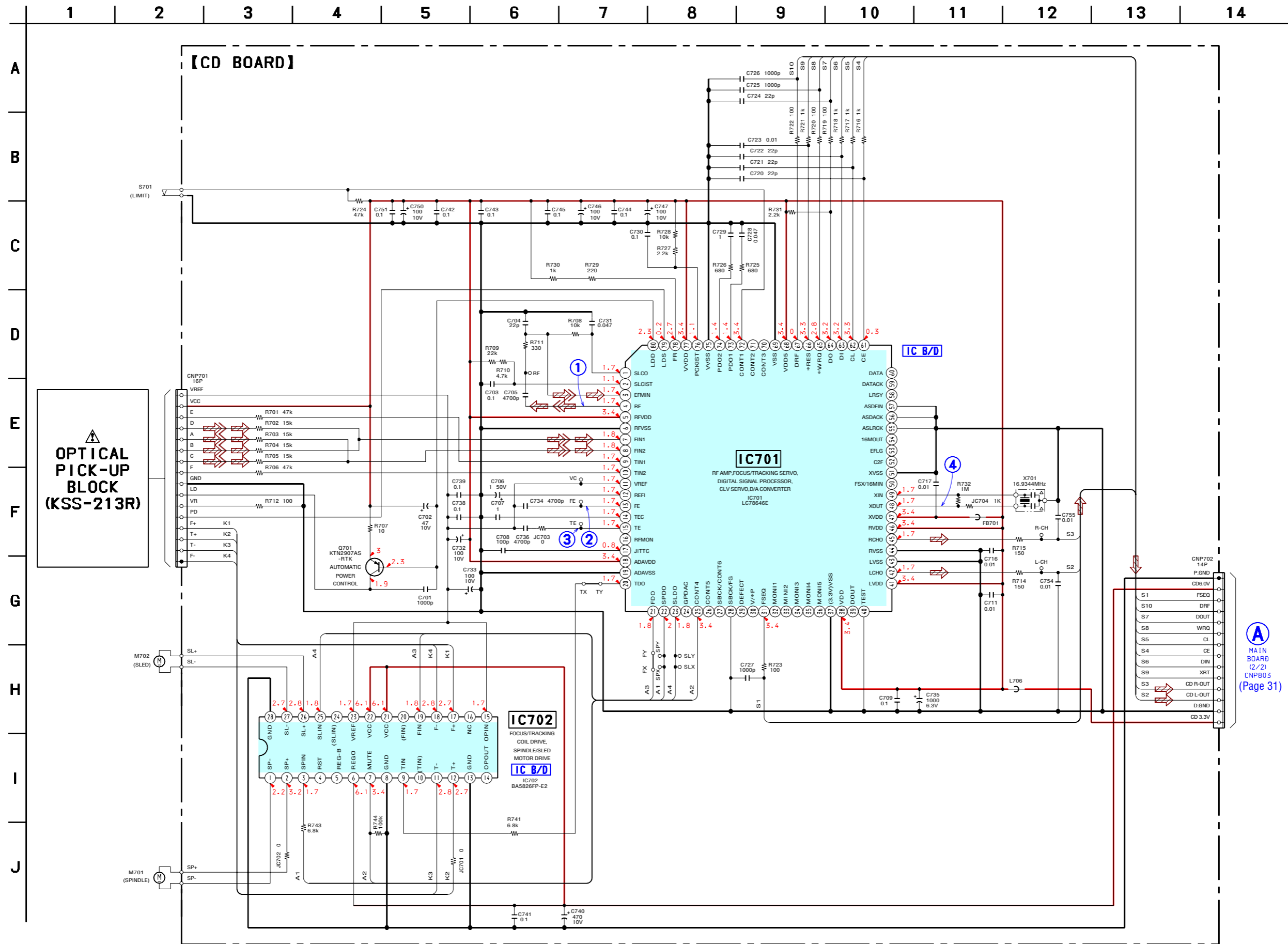


6-6. PRINTED WIRING BOARD – CD Section – • See page 23 for Circuit Boards Location.

 : Uses unleaded solder. (US, Canadian, E, Mexican models)



6-7. SCHEMATIC DIAGRAM – CD Section – • See page 36 for Waveforms. • See page 36 for IC Block Diagrams.



OPTICAL PICK-UP BLOCK (KSS-213R)

IC701
RF AMP, FOCUS/TRACKING SERVO,
DIGITAL SIGNAL PROCESSOR,
CLV SERVO, D/A CONVERTER
IC701
L67846E

IC702
FOCUS/TRACKING
COIL DRIVE,
SPINDLE/SLED
MOTOR DRIVE
IC702
BA5826FP-E2


CNP702
14P
P.GND
CD6.0V
S1 FSEQ
S10 DRF
S7 DOUT
S8 WRG
S5 CL
S4 CE
S6 DIN
S9 XRT
S3 CD R-OUT
S2 CD L-OUT
D.GND
CD 3.3V

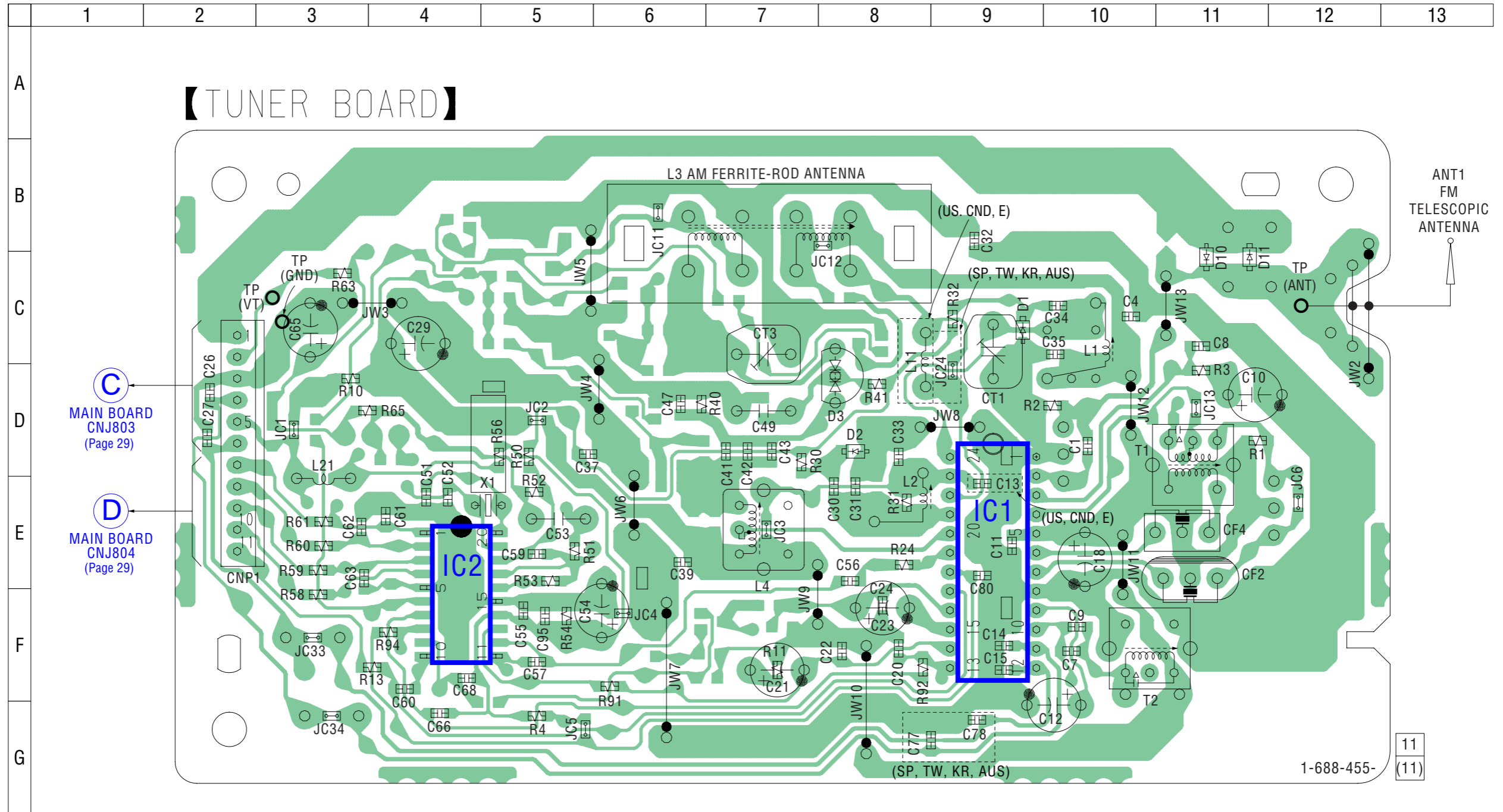
A
MAIN BOARD (2/2)
CNP803
(Page 31)

• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark : CD PLAY

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.

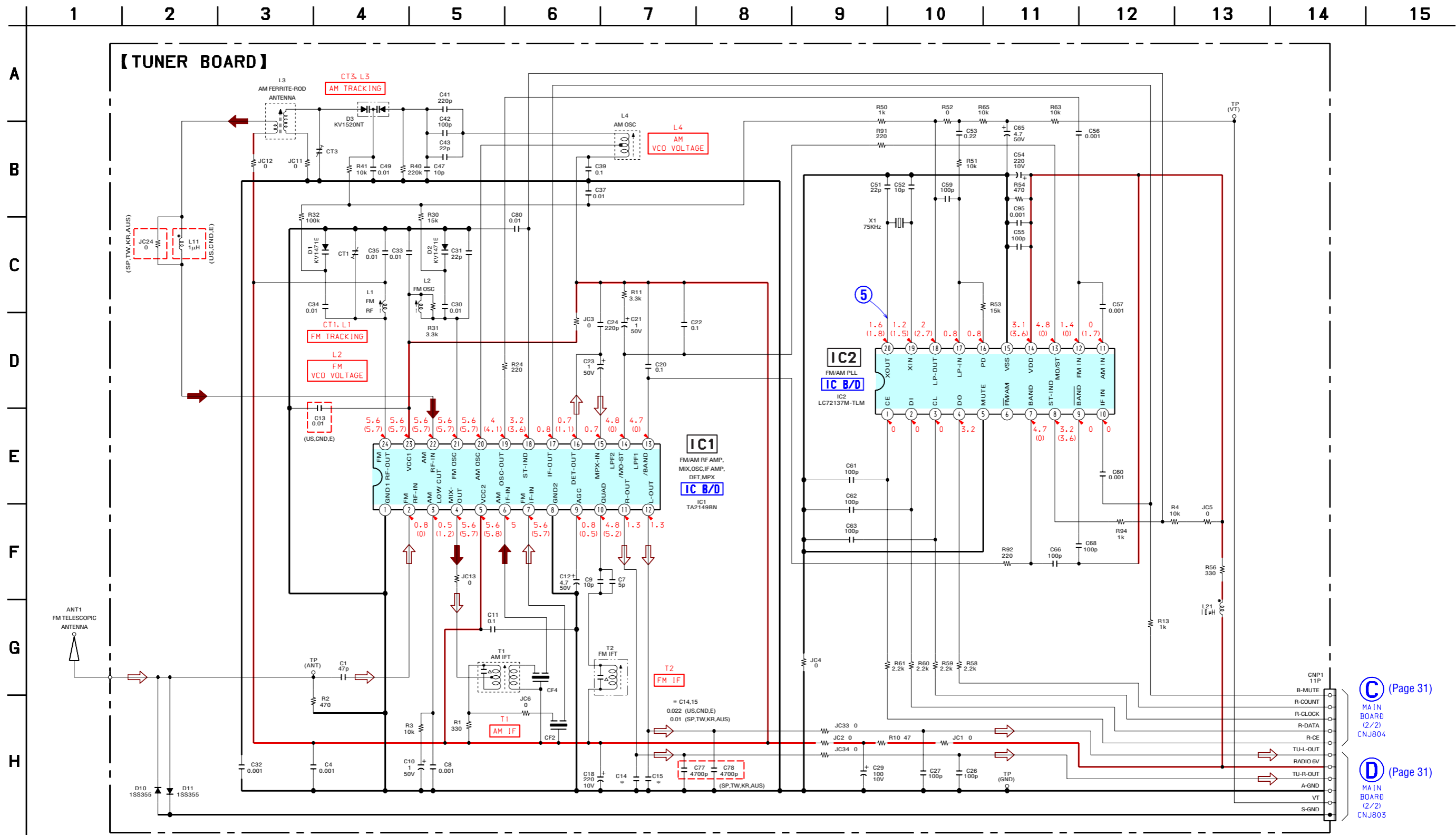
6-8. PRINTED WIRING BOARD – TUNER Section – • See page 23 for Circuit Boards Location.  : Uses unleaded solder. (US, Canadian, E models)



• Semiconductor Location

Ref. No.	Location
D1	C-9
D2	D-8
D3	D-8
D10	C-11
D11	C-11
IC1	E-9
IC2	F-4

6-9. SCHEMATIC DIAGRAM – TUNER Section – • See page 36 for Waveform. • See page 36 for IC Block Diagrams.



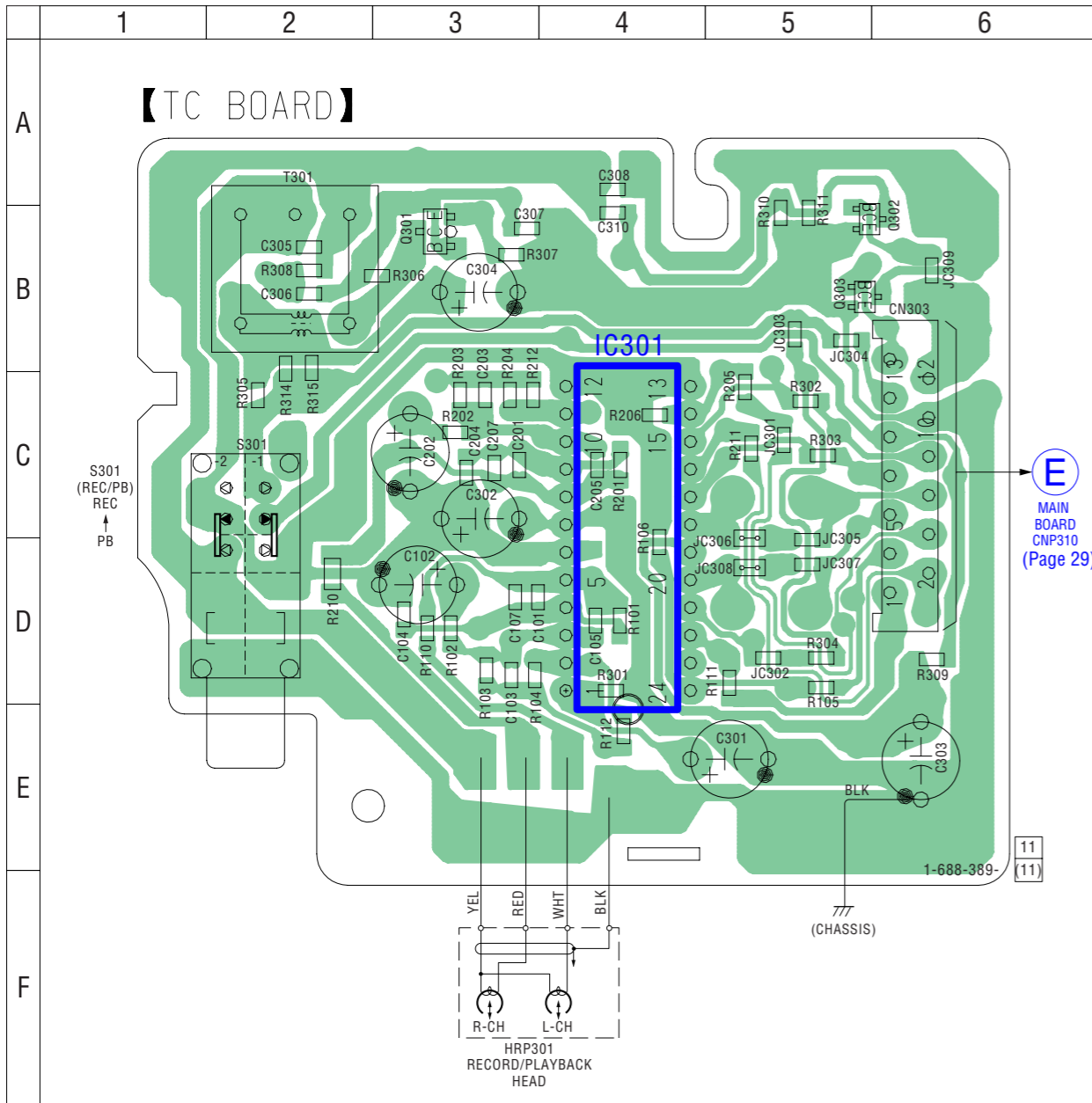
• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
() : AM

(C) (Page 31)
MAIN BOARD (2/2)
CNJ804

(D) (Page 31)
MAIN BOARD (2/2)
CNJ803

6-10. PRINTED WIRING BOARD – TAPE DECK Section –

• See page 23 for Circuit Boards Location.  :Uses unleaded solder.

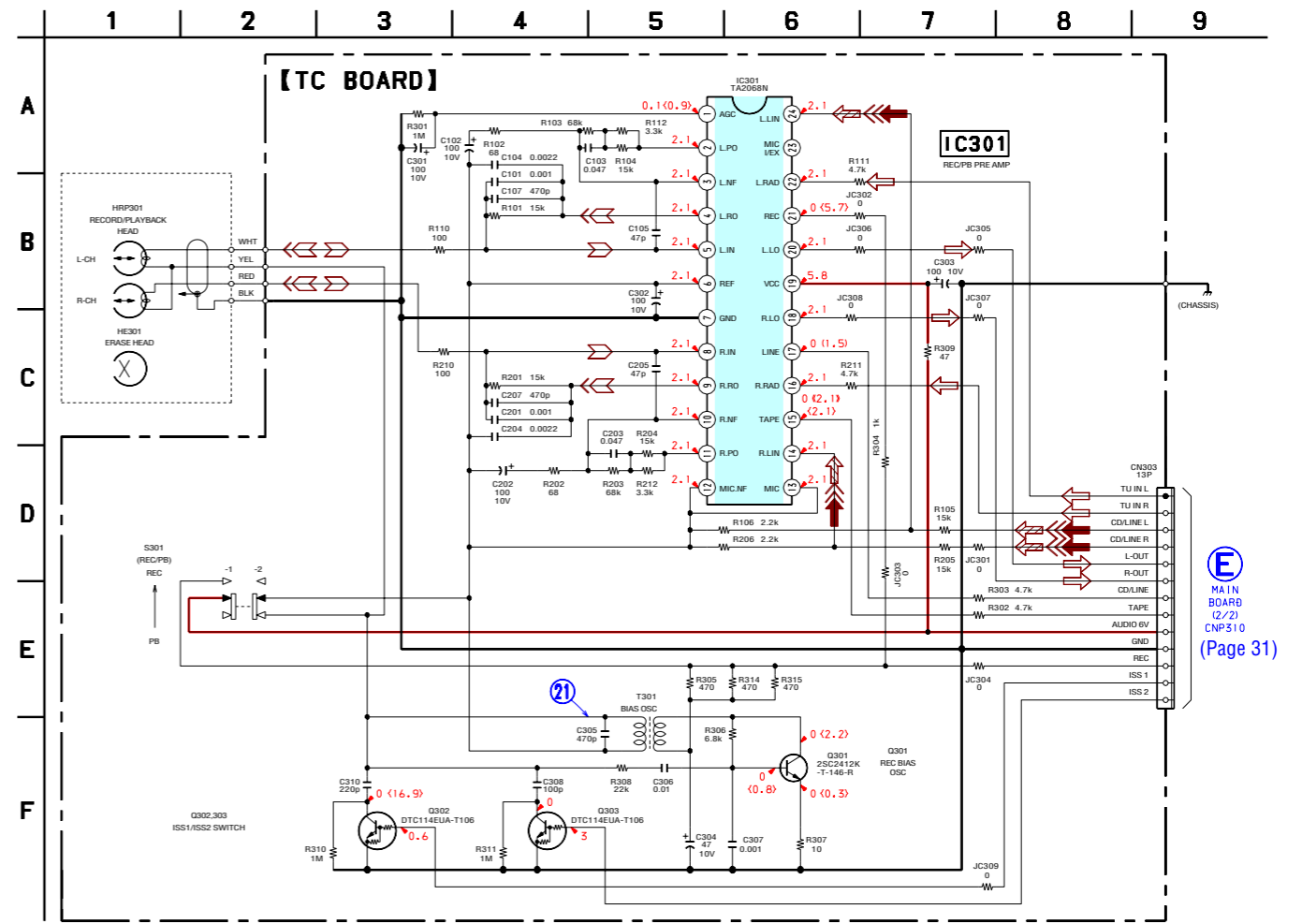


• Semiconductor Location


Ref. No.	Location
IC301	C-4
Q301	B-3
Q302	B-5
Q303	B-5

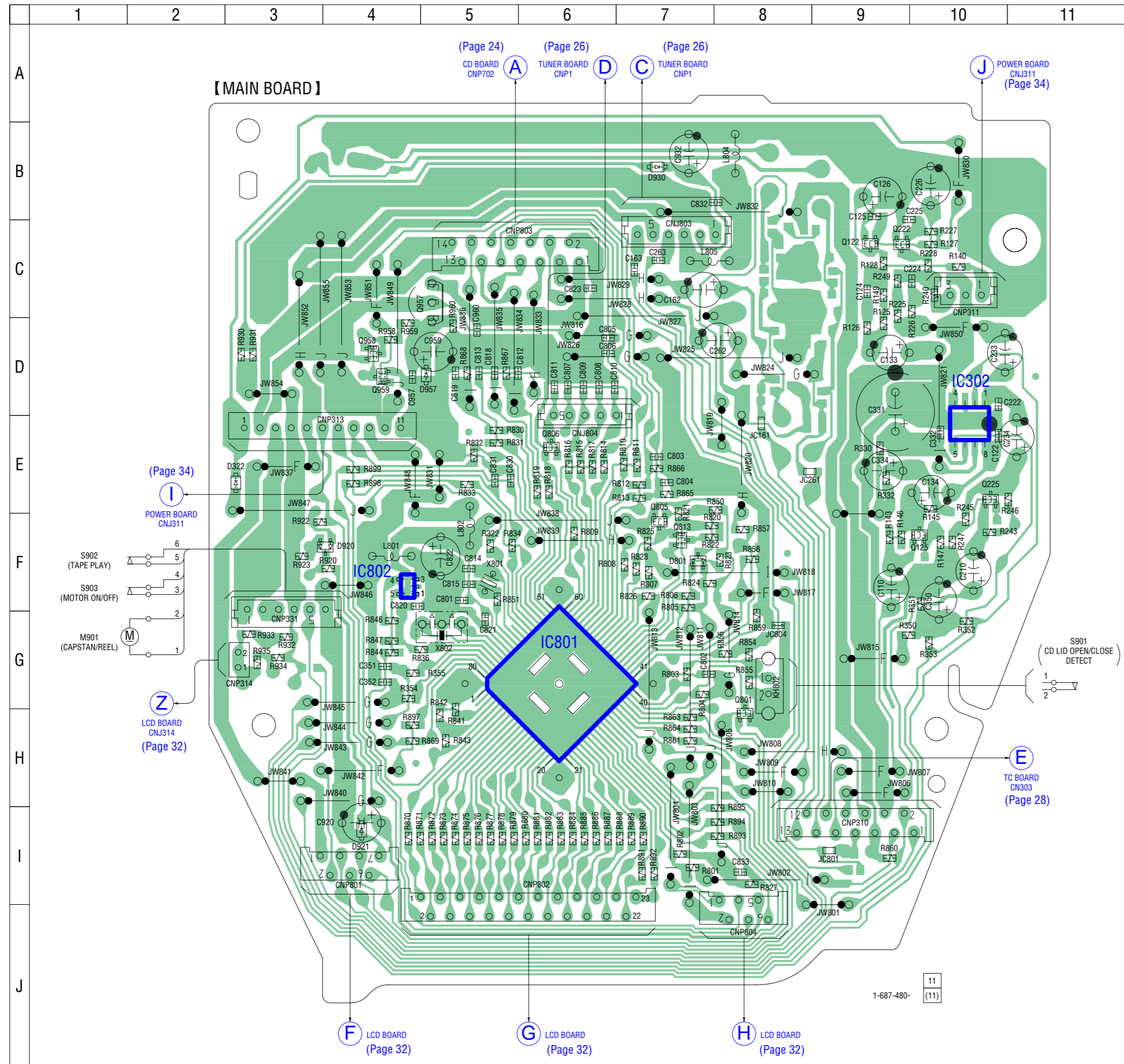
6-11. SCHEMATIC DIAGRAM – TAPE DECK Section –

• See page 36 for Waveform. • See page 36 for IC Block Diagram.



• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
 no mark : TUNER
 () : CD PLAY
 << >> : TAPE PLAY
 { } : REC

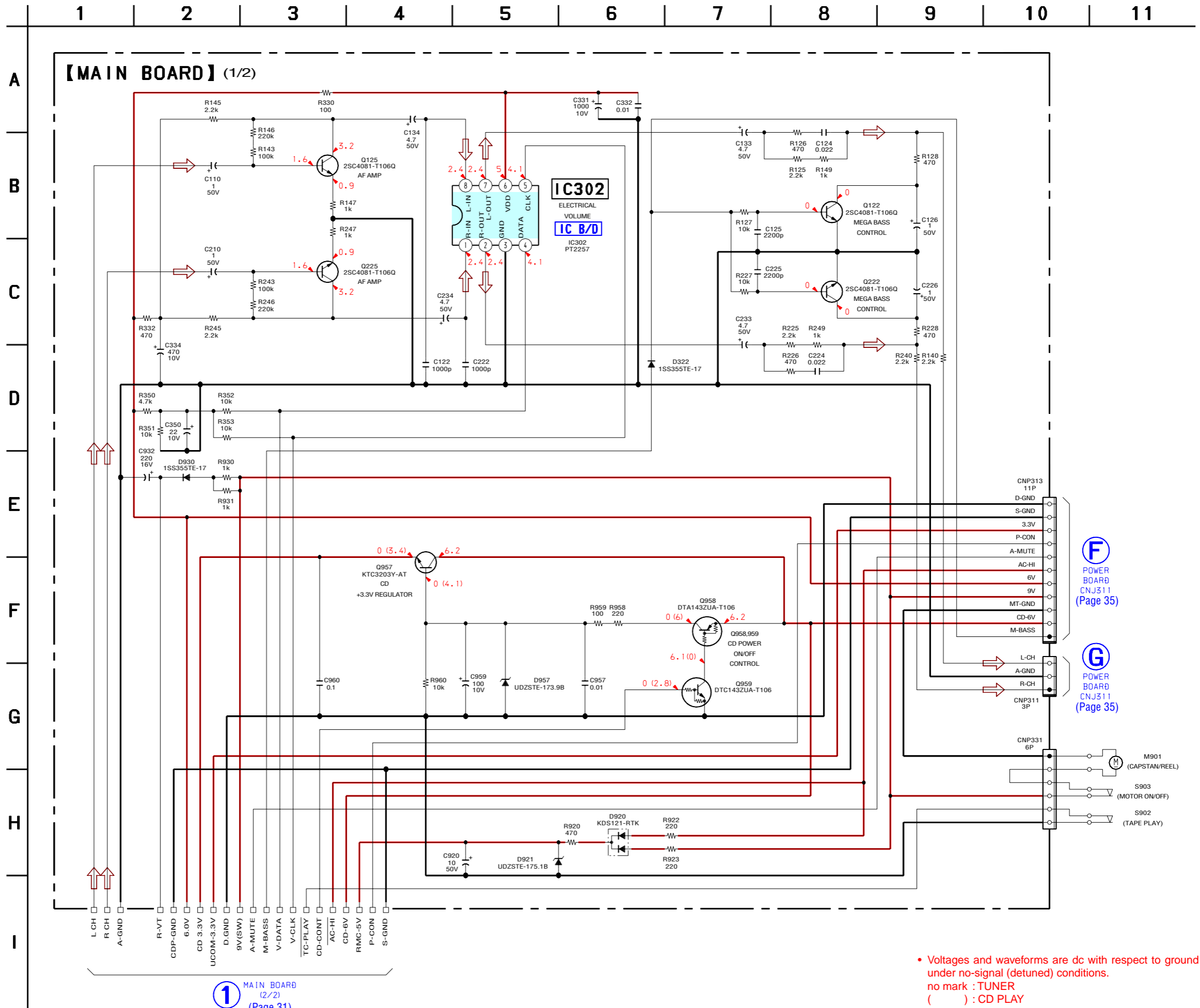
6-12. PRINTED WIRING BOARDS – MAIN Section – • See page 23 for Circuit Boards Location.  : Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D322	E-3	Q122	C-9
D801	F-7	Q125	F-10
D920	F-4	Q222	C-9
D921	I-4	Q225	E-10
D930	B-7	Q801	H-8
D957	D-5	Q805	F-7
		Q806	E-4
IC302	E-10	Q813	F-7
IC801	G-6	Q957	C-5
IC802	F-4	Q958	D-4
		Q959	D-4

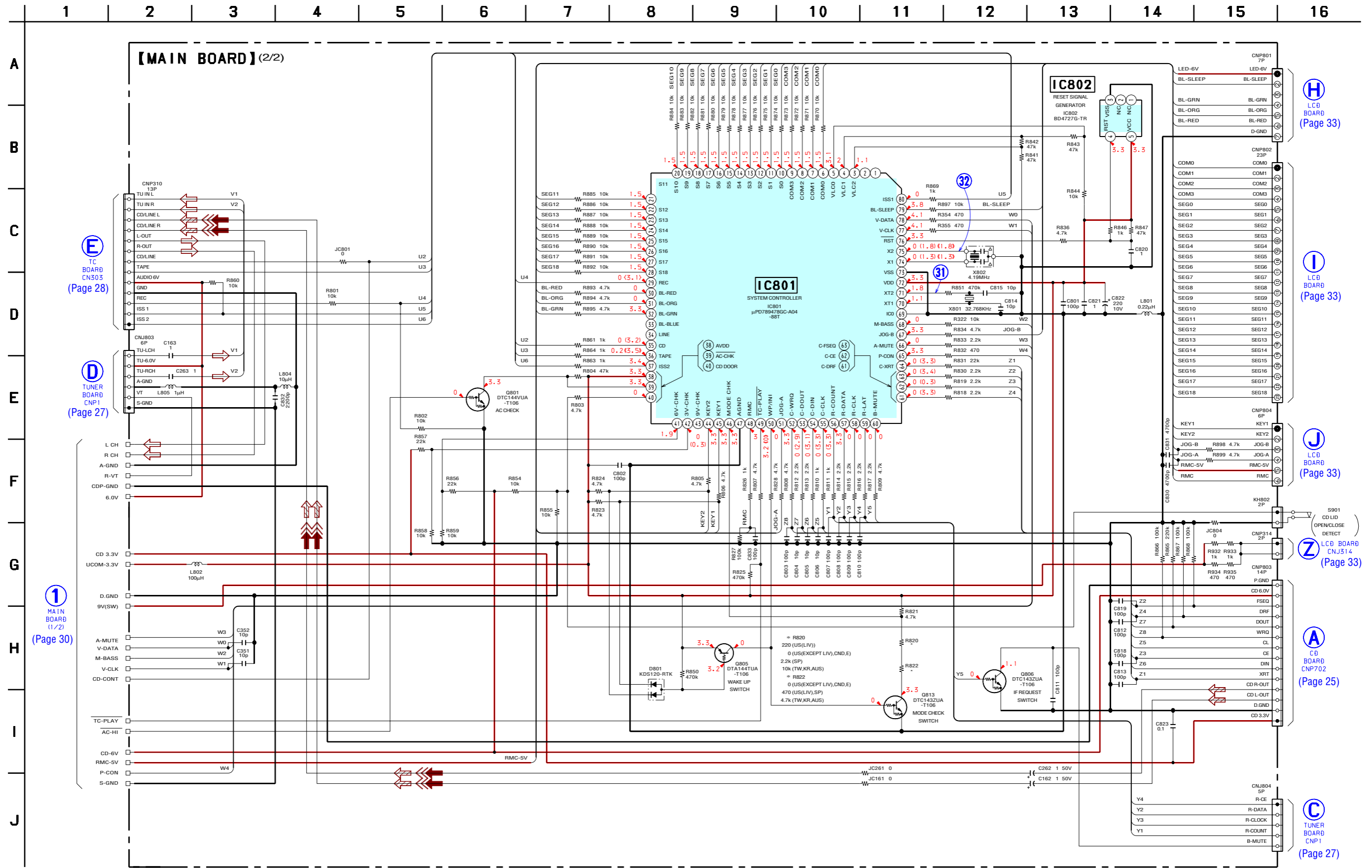
6-13. SCHEMATIC DIAGRAM – MAIN Section (1/2) – • See page 36 for IC Block Diagram.



1 MAIN BOARD (2/2) (Page 31)

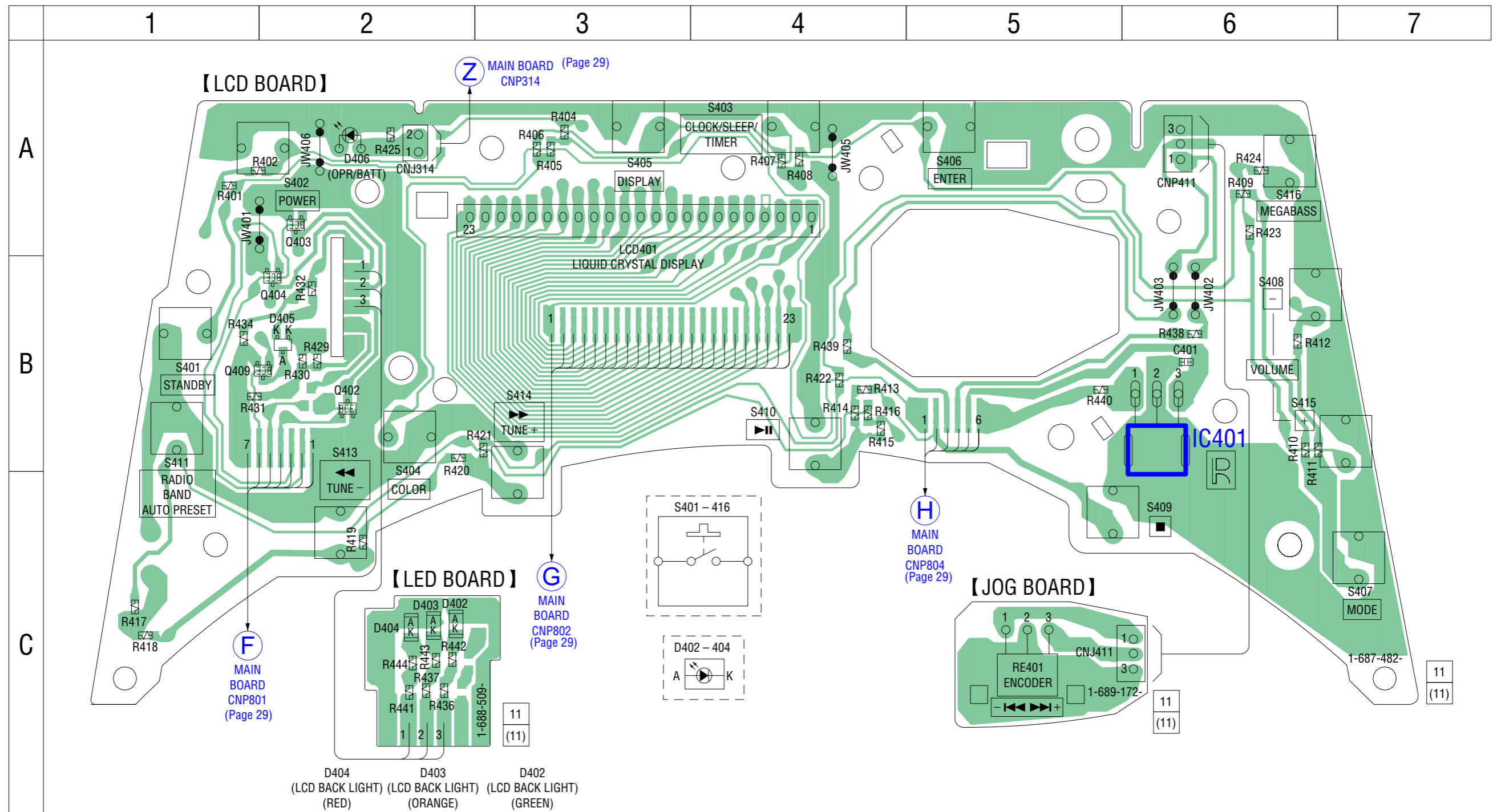
• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
 no mark : TUNER
 () : CD PLAY

6-14. SCHEMATIC DIAGRAM – MAIN Section (2/2) – • See page 36 for Waveforms.



• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : TUNER
() : CD PLAY
<< >> : TAPE PLAY
{ } : REC

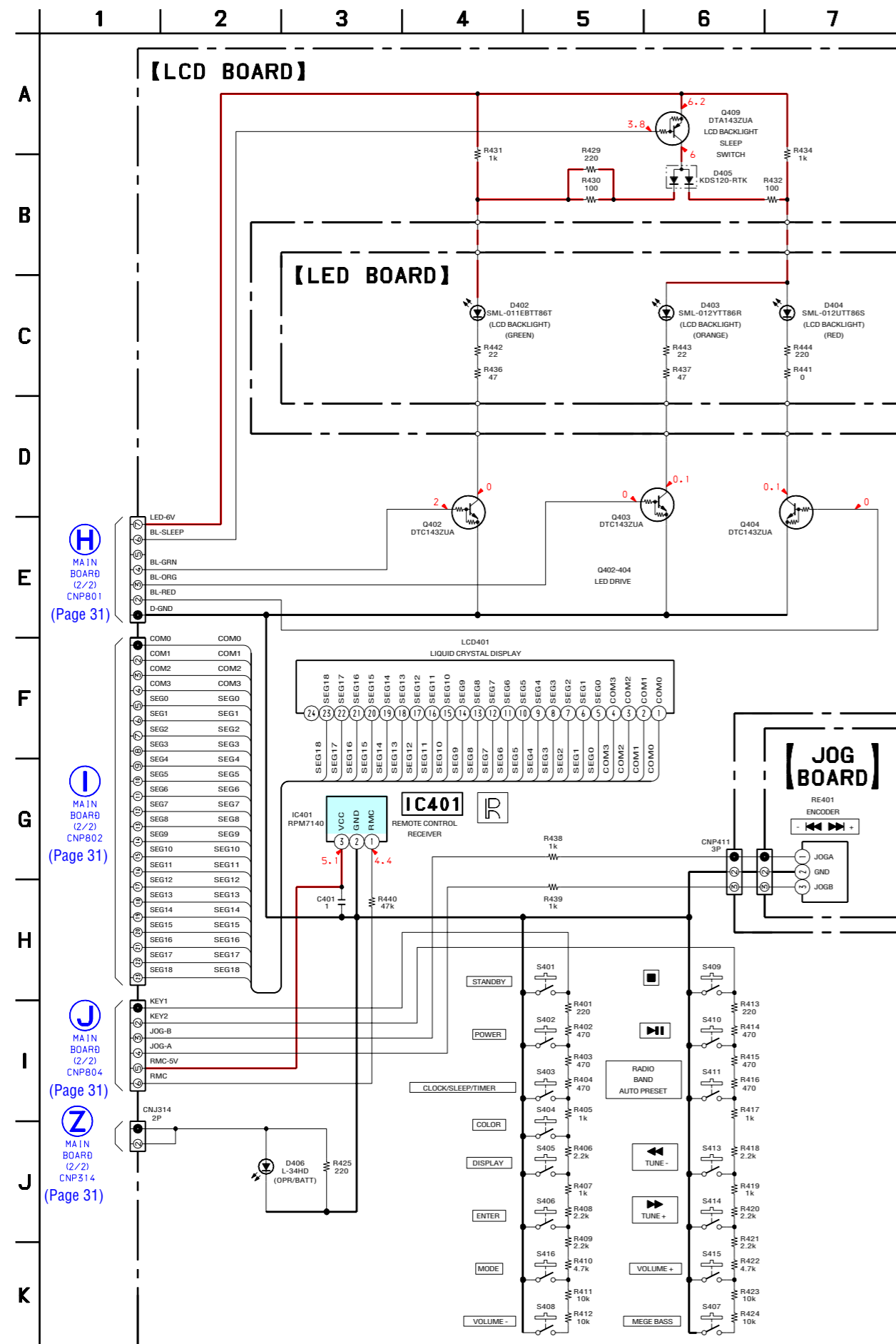
6-15. PRINTED WIRING BOARDS – PANEL Section – • See page 23 for Circuit Boards Location.  : Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
D402	C-2
D403	C-2
D404	C-2
D405	B-2
D406	A-2
IC401	B-6
Q402	B-2
Q403	A-2
Q404	B-2
Q409	B-2

6-16. SCHEMATIC DIAGRAM – PANEL Section –



H MAIN BOARD (2/2) CNP801 (Page 31)

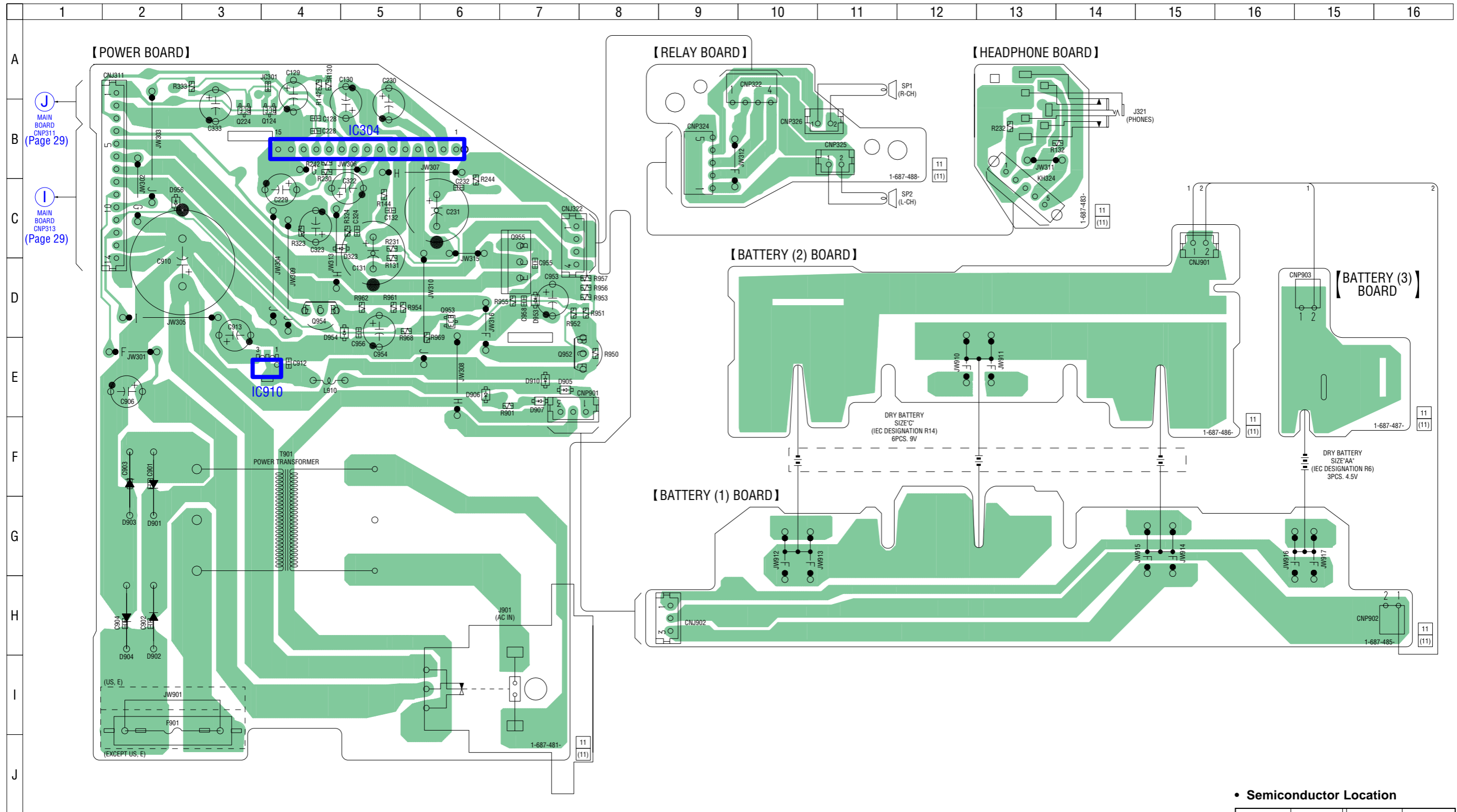
I MAIN BOARD (2/2) CNP802 (Page 31)

J MAIN BOARD (2/2) CNP804 (Page 31)

K MAIN BOARD (2/2) CNP314 (Page 31)

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

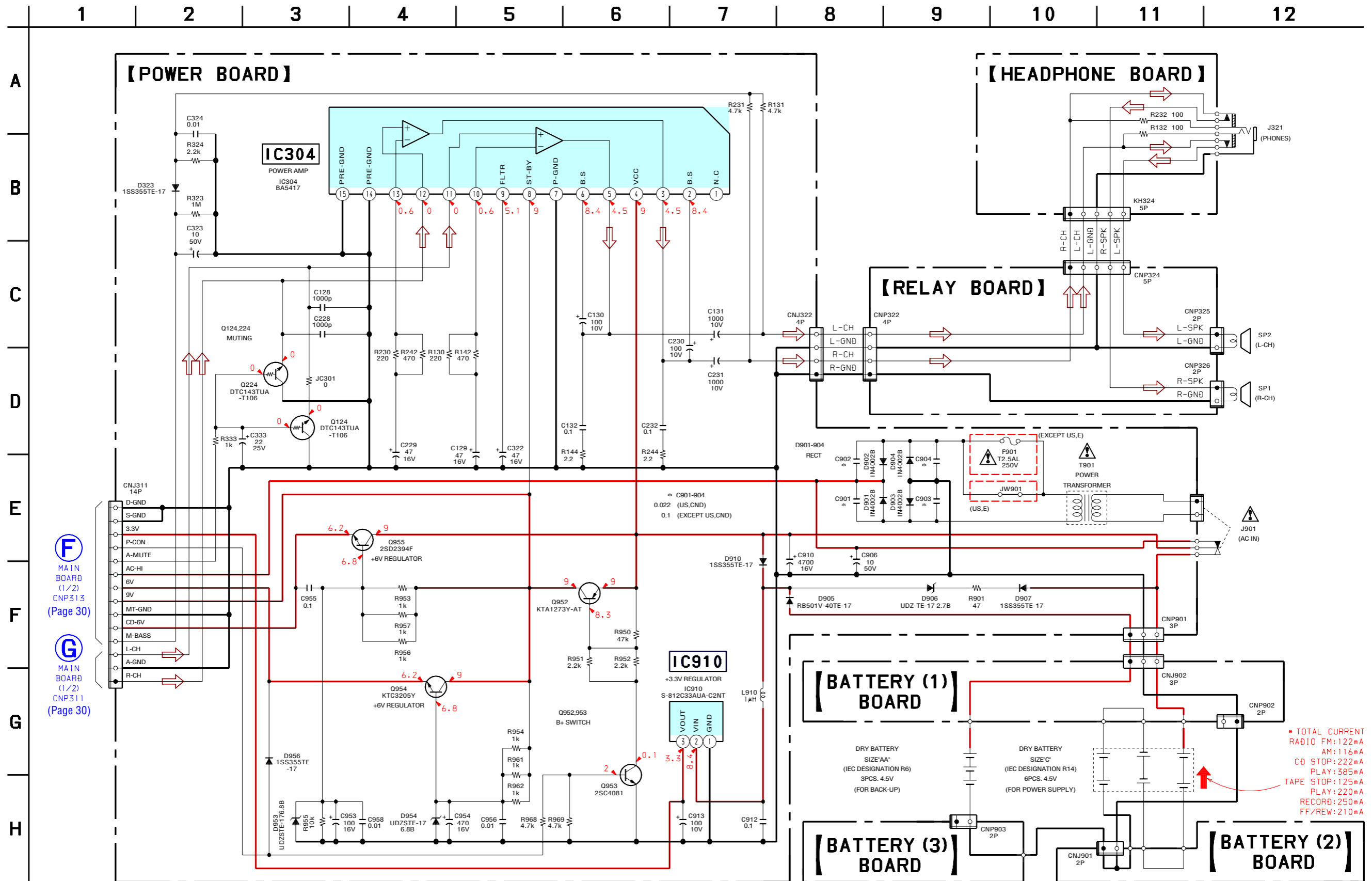
6-17. PRINTED WIRING BOARDS – POWER Section – • See page 23 for Circuit Boards Location.  : Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D323	C-5	IC304	B-5
D901	F-2	IC910	E-4
D902	H-2	Q124	B-4
D903	F-2	Q224	B-3
D904	H-2	Q952	E-8
D905	E-7	Q953	D-6
D906	E-6	Q954	D-4
D907	E-7	Q955	D-7
D910	E-7		
D953	D-7		
D954	D-5		
D956	C-2		

6-18. SCHEMATIC DIAGRAM – POWER Section –



F MAIN BOARD (1/2) CNP313 (Page 30)
G MAIN BOARD (1/2) CNP311 (Page 30)

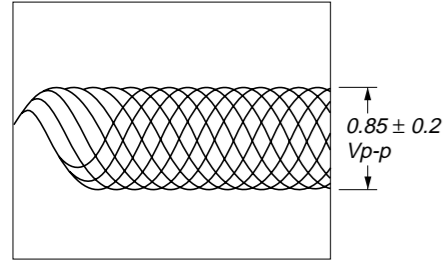
• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : TUNER

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

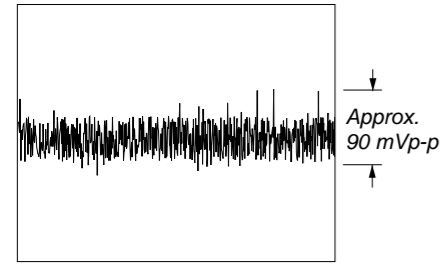
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• Waveforms
– CD Board –

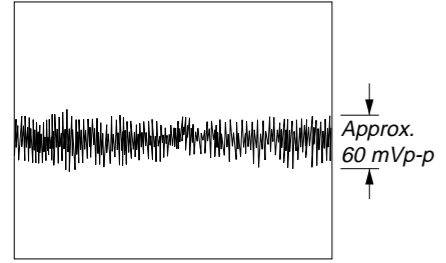
1 IC701 ④ (RF) (CD Play mode)



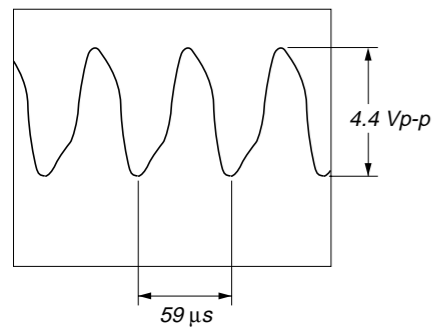
2 IC701 ⑬ (FE) (CD Play mode)



3 IC701 ⑮ (TE) (CD Play Mode)

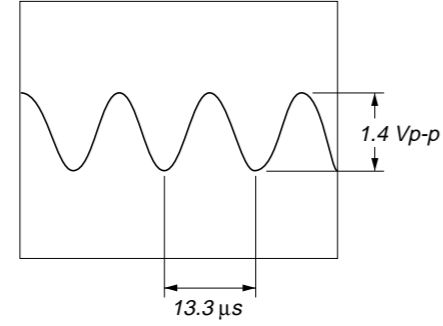


4 IC701 ⑳ (XOUT)



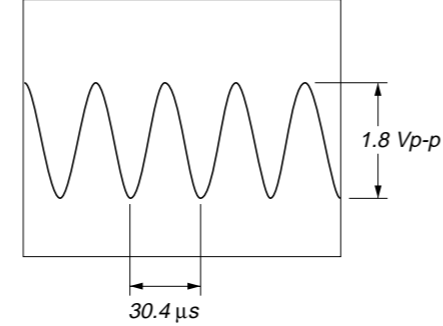
– TUNER Board –

5 IC2 ⑳ (XOUT)

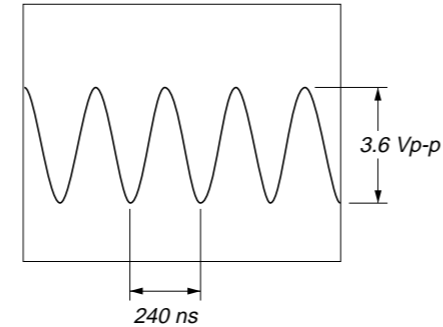


– MAIN Board –

6 IC801 ㉑ (XT2)

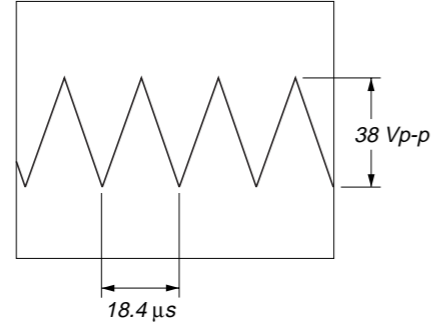


7 IC801 ㉒ (X2)



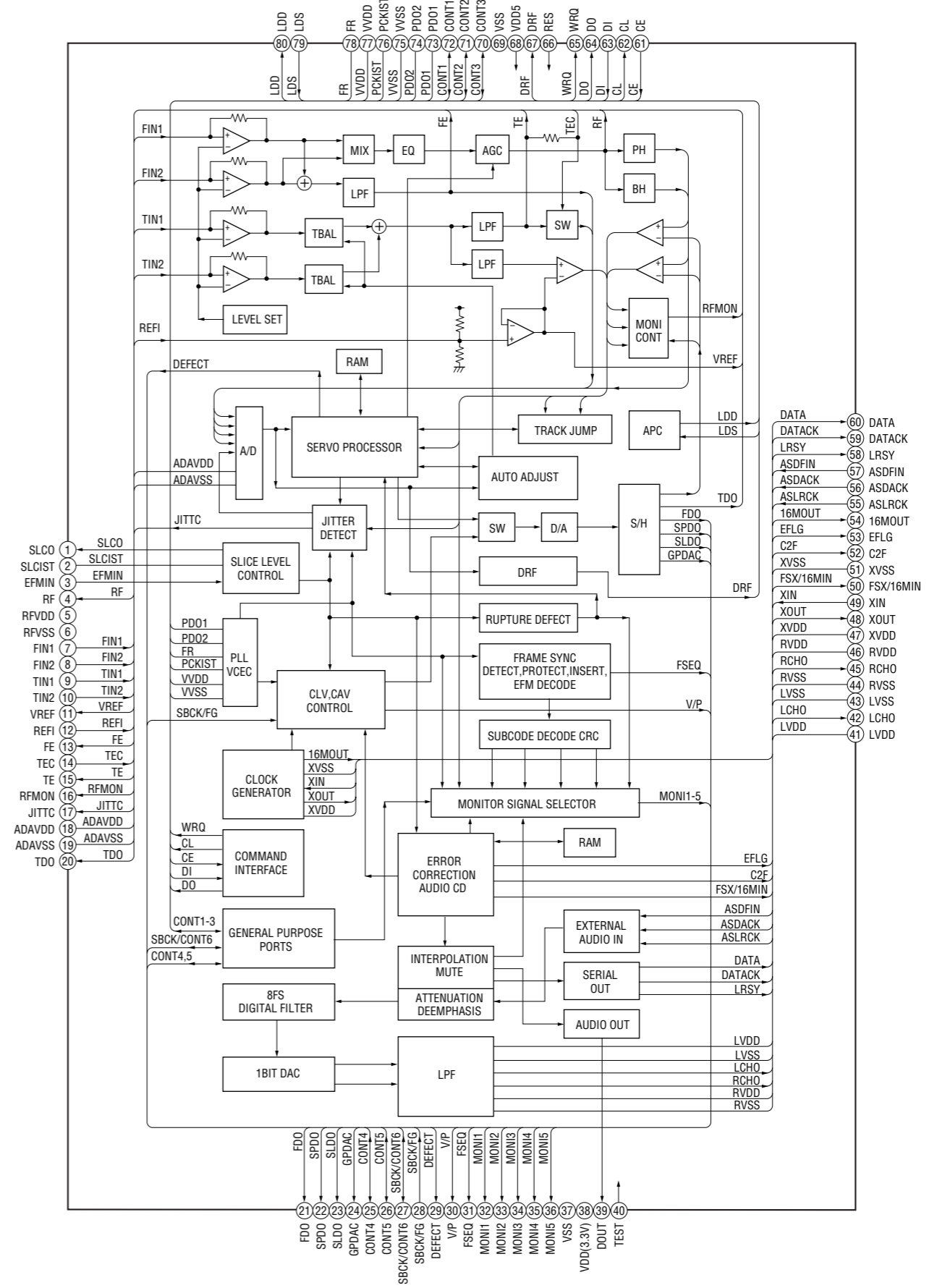
– TC Board –

8 T301 (REC mode)

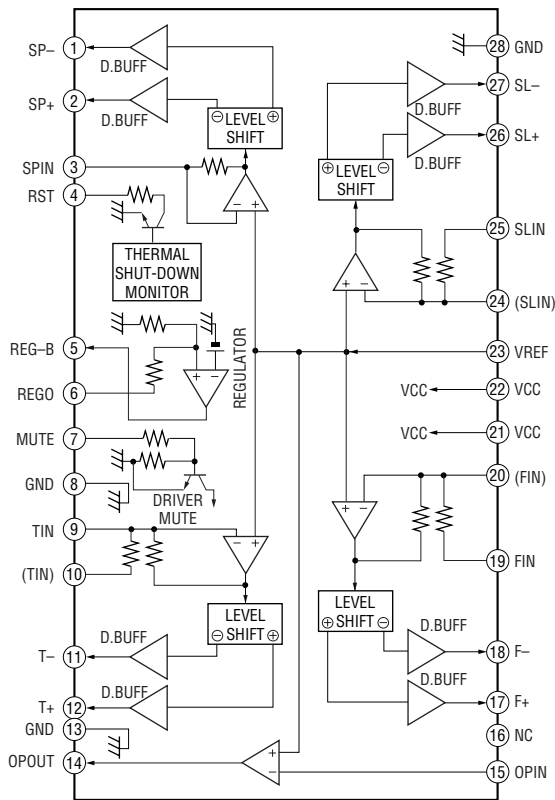


• IC Block Diagrams
– CD Board –

IC701 LC78646E-E

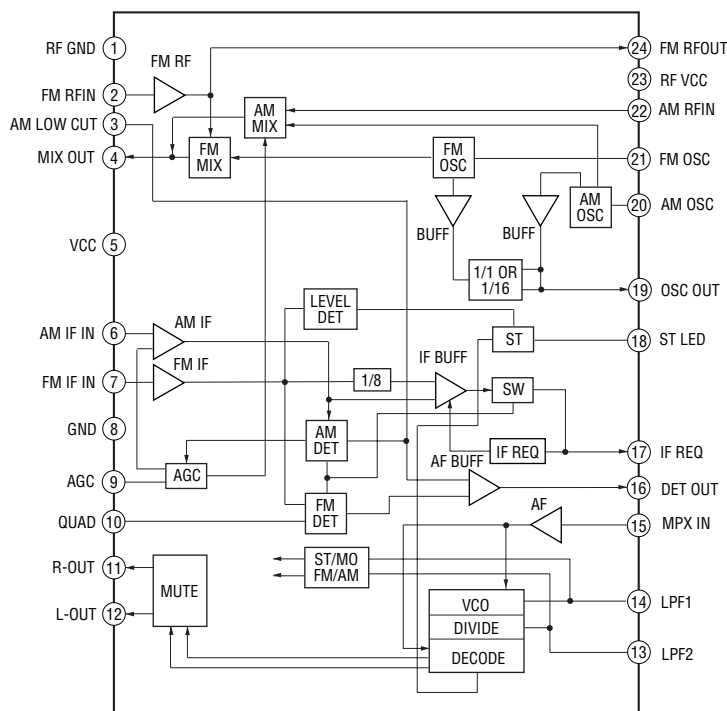


IC702 BA5826FP-E2

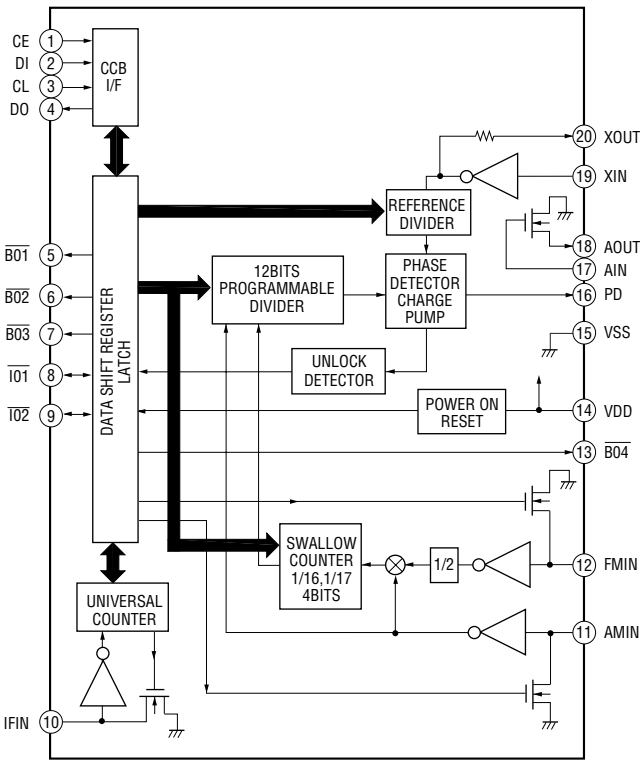


- TUNER Board -

IC1 TA2149BN

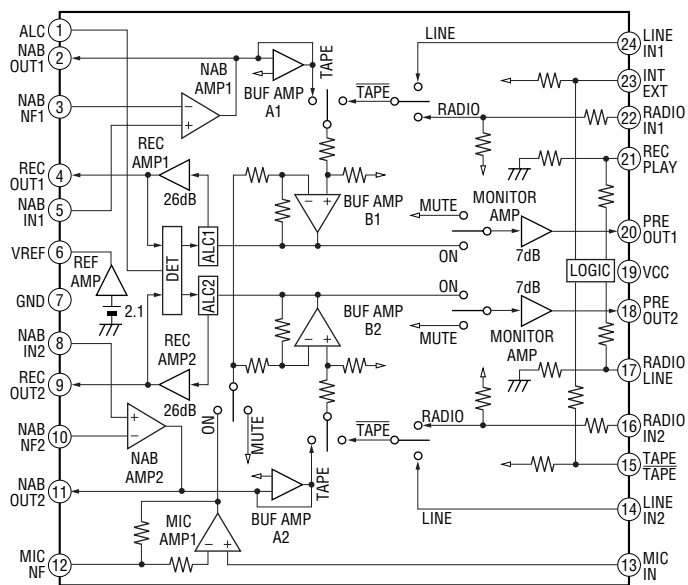


IC2 LC72137M-TLM



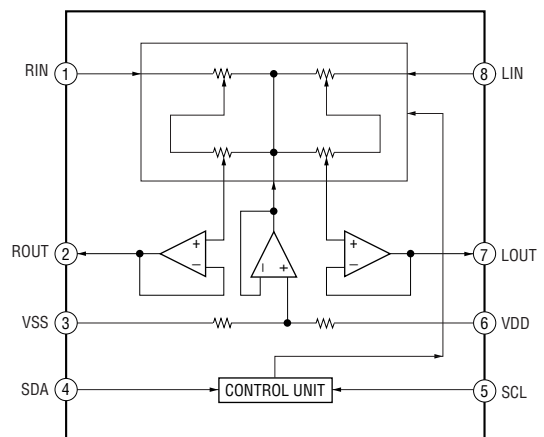
- TC Board -

IC301 TA2068N



- MAIN Board -

IC302 PT2257-S



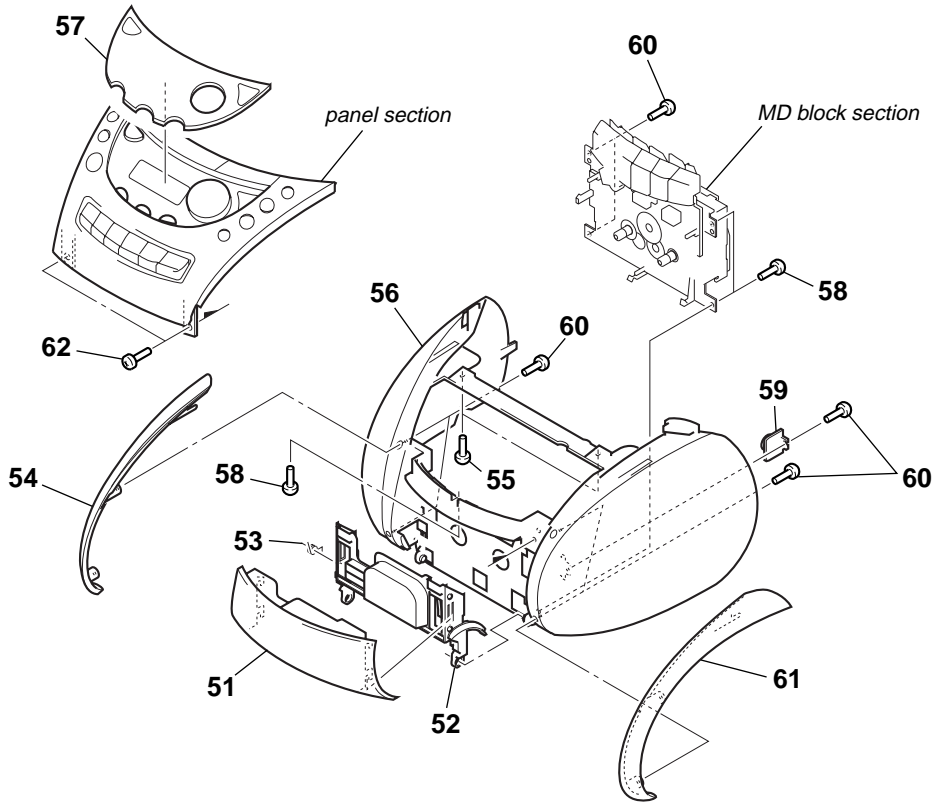
6-19. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC801 μ PD789478GC-A04-8BT (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1, 2	NC	—	Not used
3 to 5	VLC2 to VLC0	—	Terminal for doubler circuit capacitor connection to develop liquid crystal display drive voltage
6 to 9	COM0 to COM3	O	Common drive signal output to the liquid crystal display
10 to 28	SEG0 to SEG18	O	Segment drive signal output to the liquid crystal display
29	REC	I	Recording/playback detection signal input terminal “L”: playback mode, “H”: recording mode
30	BL-RED	O	LCD back light (red) on/off control signal output terminal “H”: Red LED on
31	BL-ORG	O	LCD back light (orange) on/off control signal output terminal “H”: Orange LED on
32	BL-GRN	O	LCD back light (green) on/off control signal output terminal “H”: Green LED on
33	BL-BLUE	O	LCD back light (blue) on/off control signal output terminal “H”: Blue LED on
34	LINE	O	Line function control signal output terminal “H”: line on
35	CD	O	CD function control signal output terminal “H”: CD on
36	TAPE	O	Tape function control signal output terminal “H”: tape on
37	ISS2	O	ISS 2 on/off control signal output terminal “H”: ISS 2 on
38	AVDD	—	Power supply terminal (+3.3V)
39	AC-CHK	I	AC voltage detection signal input terminal “L”: AC detected
40	CD DOOR	I	CD lid open/close detection switch input terminal “L”: CD lid is closed, “H”: CD lid is opened
41	6V-CHK	I	Power supply voltage (+6V) monitor input terminal
42	3V-CHK	I	Power supply voltage (+3V) monitor input terminal
43	9V-CHK	I	Power supply voltage (+9V) monitor input terminal Not used
44, 45	KEY2, KEY1	I	Front panel key input terminal (A/D input)
46	MODE CHK	I	Model destination setting terminal
47	AGND	—	Ground terminal
48	RMC	I	Remote control signal input from the remote control receiver
49	TC-PLAY	I	Tape play detection switch input terminal “L”: tape play mode
50	WP/INI	I/O	Interrupt status input terminal Output terminal for wake up/Initial reset signal reading
51	JOG-A	I	Jog dial pulse input from the encoder
52	C-WRQ	I	Interruption detection signal input from the digital signal processor
53	C-DOUT	I	Serial data input from the digital signal processor
54	C-DIN	O	Serial data output to the digital signal processor
55	C-CLK	O	Serial data transfer clock signal output to the digital signal processor
56	R-COUNT	I	PLL serial count data input from the FM/AM PLL
57	R-DATA	O	PLL serial data output to the FM/AM PLL
58	R-CLK	O	PLL serial data transfer clock signal output to the FM/AM PLL
59	R-LAT	O	PLL chip enable signal output to the FM/AM PLL
60	R-MUTE	O	Tuner muting on/off control signal output to the FM/AM PLL “H”: muting on
61	C-DRF	I	Focus on/off detection signal input from the digital signal processor
62	C-CE	O	Chip enable signal output to the digital signal processor
63	C-FSEQ	I	Synchronizing signal detection signal input from the digital signal processor
64	C-XRT	O	System reset signal output to the digital signal processor “L”: reset
65	P-CON	O	Power on/off control signal output terminal “L”: standby mode, “H”: power on
66	A-MUTE	O	Audio muting on/off control signal output terminal “H”: muting on
67	JOG-B	I	Jog dial pulse input from the encoder
68	M-BASS	O	Megabass on/off control signal output terminal “L”: megabass on
69	IC0	I	Not used

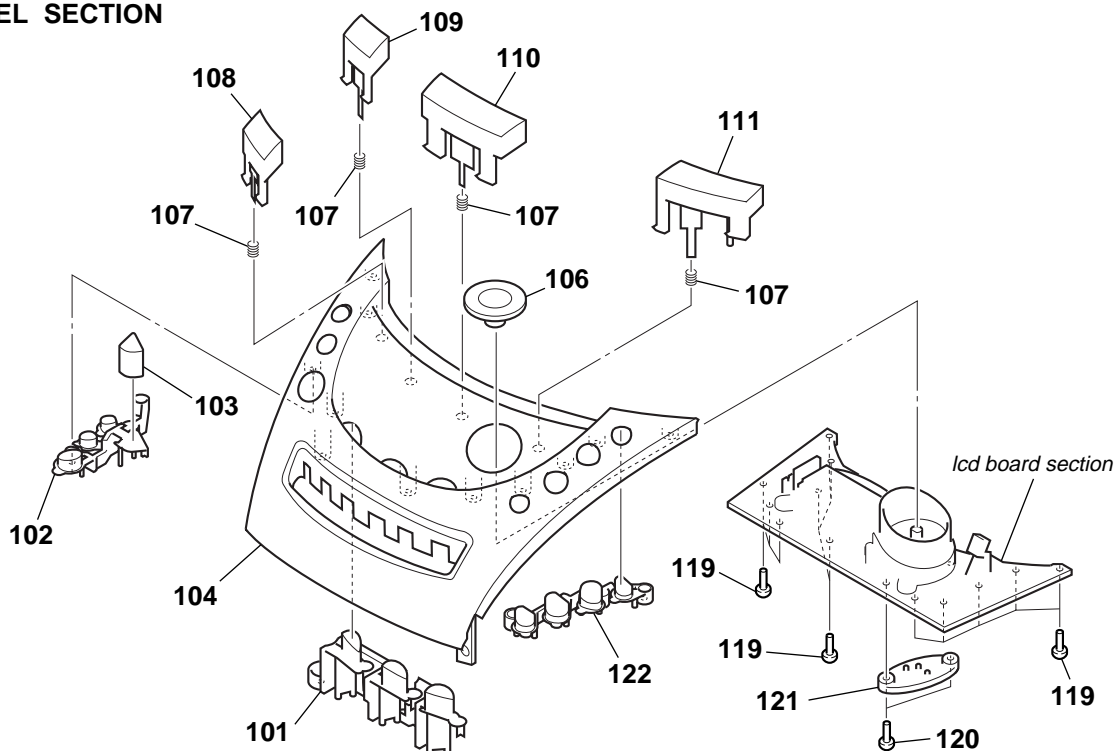
Pin No.	Pin Name	I/O	Description
70	XT1	I	Sub system clock input terminal (32.768 kHz)
71	XT2	O	Sub system clock output terminal (32.768 kHz)
72	VDD	—	Power supply terminal (+3.3V)
73	VSS	—	Ground terminal
74	X1	I	Main system clock input terminal (4.19 MHz)
75	X2	O	Main system clock output terminal (4.19 MHz)
76	$\overline{\text{RST}}$	I	System reset signal input “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
77	V-CLK	O	Serial data transfer clock signal output to the electrical volume
78	V-DATA	O	Serial data output to the electrical volume
79	BL-SLEEP	O	LCD back light sleep control signal output terminal High Impedance: LCD back light sleep
80	ISS1	O	ISS 1 on/off control signal output “H”: ISS 1 on

7-2. CABINET FRONT SECTION



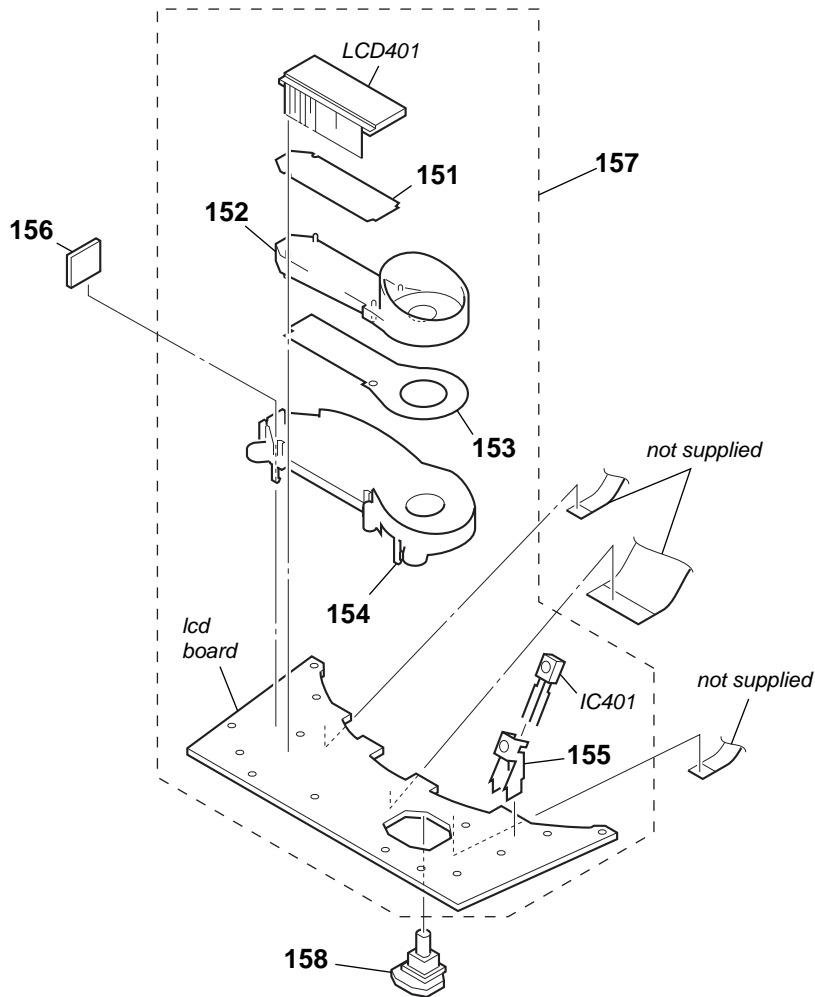
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-247-666-01	LID, CASSETTE (BLUE (PSYC))		56	X-3383-048-1	CABINET FRONT SUB ASSY (W)	
51	3-247-666-11	LID, CASSETTE (WHITE (LIV))				(for WHITE (LIV))	
51	3-247-666-21	LID, CASSETTE (YELLOW)		56	X-3383-049-1	CABINET FRONT SUB ASSY (S) (for SILVER)	
51	3-247-666-31	LID, CASSETTE (RED (PSYC))		56	X-3383-130-1	CABINET FRONT SUB ASSY (W)	
51	X-3383-237-1	LID CASSETTE SUB ASSY (L)	(BLUE (ORIGINAL))			(for WHITE (WALMART))	
51	X-3383-238-1	LID CASSETTE SUB ASSY (S) (SILVER)		56	X-3383-131-1	CABINET FRONT SUB ASSY (R)	(for RED (PSYC: CND))
51	X-3383-310-1	LID CASSETTE SUB ASSY (W)	(WHITE (WALMART))	56	X-3383-323-1	CABINET FRONT SUB ASSY (L)	(for BLUE (PSYC: CND))
52	3-247-667-01	HOLDER, CASSETTE (for SILVER, WHITE (WALMART), BLUE (ORIGINAL))		57	3-247-676-01	WINDOW, LCD (for BLUE (PSYC))	
52	3-247-667-11	HOLDER, CASSETTE (for WHITE (LIV), BLUE/RED/YELLOW (PSYC))		57	3-247-676-11	WINDOW, LCD (for WHITE (LIV))	
53	3-250-733-01	SPRING CASSETTE		57	3-247-676-21	WINDOW, LCD (for YELLOW)	
54	3-247-653-01	PLATE (L), ORNAMENTAL (for BLUE/RED/YELLOW (PSYC))		57	3-247-676-31	WINDOW, LCD (for RED (PSYC))	
54	3-247-653-21	PLATE (L), ORNAMENTAL (for WHITE (LIV))		57	3-247-676-41	WINDOW, LCD (for BLUE (ORIGINAL))	
54	3-247-653-31	PLATE (L), ORNAMENTAL (for BLUE (ORIGINAL), SILVER, WHITE (WALMART))		57	3-247-676-51	WINDOW, LCD (for SILVER)	
55	4-951-620-81	SCREW (2.6)		57	3-247-676-71	WINDOW, LCD (for WHITE (WALMART))	
56	X-3383-045-1	CABINET FRONT SUB ASSY (R)	(for RED/YELLOW (PSYC: US))	58	4-951-620-01	SCREW (2.6X8), +BVTP	
56	X-3383-046-1	CABINET FRONT SUB ASSY (L)	(for BLUE (PSYC: US))	59	3-047-468-01	DAMPER	
				60	4-951-620-11	SCREW (2.6X10), +BVTP	
				61	3-247-654-01	PLATE (R), ORNAMENTAL (for BLUE/RED/YELLOW (PSYC))	
				61	3-247-654-21	PLATE (R), ORNAMENTAL (WHITE (LIV))	
				61	3-247-654-31	PLATE (R), ORNAMENTAL (for BLUE (ORIGINAL), SILVER, WHITE (WALMART))	
				62	4-951-620-41	SCREW (2.6), +BVTP	

7-3. PANEL SECTION



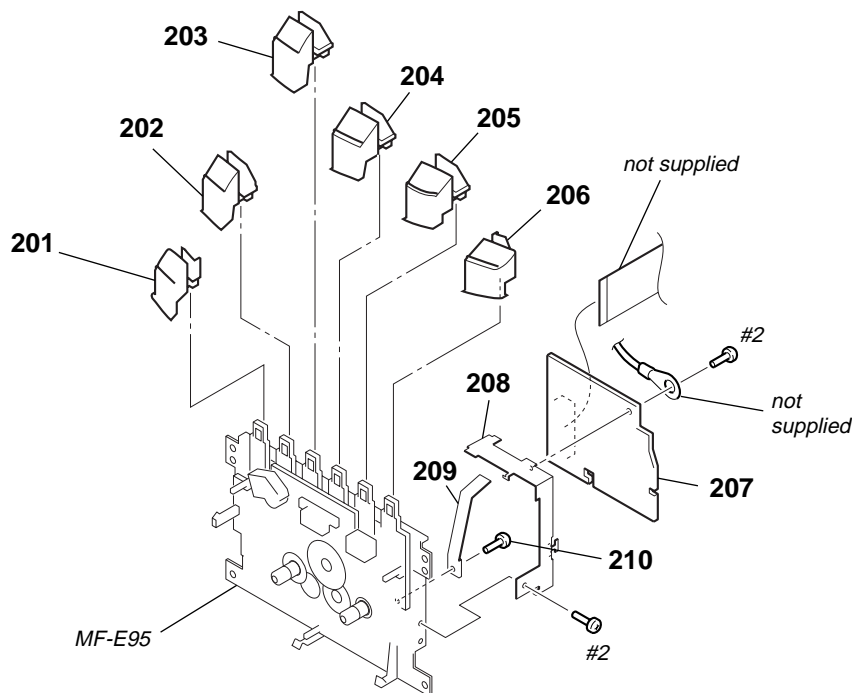
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-247-656-01	BUTTON (CENTER) (DISPLAY. CLOCK/SLEEP/TIMER. ENTER) (for BLUE/RED/YELLOW (PSYC), WHITE (LIV))		106	3-247-668-01	DIAL, JOG (for BLUE/RED/YELLOW (PSYC), WHITE (LIV))	
101	3-247-656-11	BUTTON (CENTER) (DISPLAY. CLOCK/SLEEP/TIMER. ENTER) (for SILVER, BLUE (ORIGINAL), WHITE (WALMART))		106	3-247-668-11	DIAL, JOG (for SILVER, BLUE (ORIGINAL), WHITE (WALMART))	
102	3-247-657-01	BUTTON (L) (BAND. STANDBY. POWER) (for BLUE (PSYC))		107	3-250-751-01	CD BUTTON SPRING	
102	3-247-657-11	BUTTON (L) (BAND. STANDBY. POWER) (for WHITE (LIV))		108	3-250-750-01	CD REVIEW (TUNE. -) (for BLUE/RED/YELLOW (PSYC), WHITE (LIV))	
102	3-247-657-21	BUTTON (L) (BAND. STANDBY. POWER) (for YELLOW)		108	3-250-750-11	CD REVIEW (TUNE. -) (for SILVER, BLUE (ORIGINAL), WHITE (WALMART))	
102	3-247-657-31	BUTTON (L) (BAND. STANDBY. POWER) (for BLUE/RED (PSYC))		109	3-250-749-01	CD FORWARD (TUNE. +) (for BLUE/RED/YELLOW (PSYC), WHITE (LIV))	
102	3-247-657-41	BUTTON (L) (BAND. STANDBY. POWER) (for BLUE (ORIGINAL))		109	3-250-749-11	CD FORWARD (TUNE. +) (for SILVER, BLUE (ORIGINAL), WHITE (WALMART))	
102	3-247-657-51	BUTTON (L) (BAND. STANDBY. POWER) (for SILVER)		110	3-247-655-01	CD PLAY (▶⏪) (for BLUE/RED/YELLOW (PSYC), WHITE (LIV))	
102	3-247-657-91	BUTTON (L) (BAND. STANDBY. POWER) (for WHITE (WALMART))		110	3-247-655-11	CD PLAY (▶⏪) (for SILVER, BLUE (ORIGINAL), WHITE (WALMART))	
103	3-250-755-01	COLOR BUTTON (COLOR) (for BLUE/RED/YELLOW (PSYC))		111	3-250-748-01	CD STOP (for BLUE/RED/YELLOW (PSYC), WHITE (LIV))	
103	3-250-755-11	COLOR BUTTON (COLOR) (for SILVER: EXCEPT AUS, BLUE (ORIGINAL), WHITE (WALMART))		111	3-250-748-11	CD STOP (for SILVER, BLUE (ORIGINAL), WHITE (WALMART))	
103	3-250-755-31	COLOR BUTTON (COLOR) (for SILVER: AUS)		119	4-951-620-01	SCREW (2.6X8), +BVTP	
103	3-250-755-41	COLOR BUTTON (COLOR) (WHITE (LIV))		120	4-951-620-11	SCREW (2.6X10), +BVTP	
104	3-247-670-01	PANEL (BLUE (PSYC: US))		121	3-250-753-01	JOG HOLDER	
104	3-247-670-11	PANEL (WHITE (LIV))		122	3-247-664-01	BUTTON (R) (MODE. +. -. MEGABASS) (for BLUE (PSYC))	
104	3-247-670-21	PANEL (YELLOW)		122	3-247-664-11	BUTTON (R) (MODE. +. -. MEGABASS) (for WHITE (LIV))	
104	3-247-670-31	PANEL (RED (PSYC: US))		122	3-247-664-21	BUTTON (R) (MODE. +. -. MEGABASS) (for YELLOW)	
104	3-247-670-41	PANEL (WHITE (WALMART))		122	3-247-664-31	BUTTON (R) (MODE. +. -. MEGABASS) (for RED (PSYC))	
104	3-247-670-61	PANEL (BLUE (PSYC: CND))		122	3-247-664-41	BUTTON (R) (MODE. +. -. MEGABASS) (for BLUE (ORIGINAL))	
104	3-247-670-81	PANEL (RED (PSYC: CND))		122	3-247-664-51	BUTTON (R) (MODE. +. -. MEGABASS) (for SILVER)	
104	3-251-803-31	PANEL (BLUE (ORIGINAL))		122	3-247-664-71	BUTTON (R) (MODE. +. -. MEGABASS) (for WHITE (WALMART))	
104	3-251-803-41	PANEL (SILVER)					

7-4. LCD BOARD SECTION



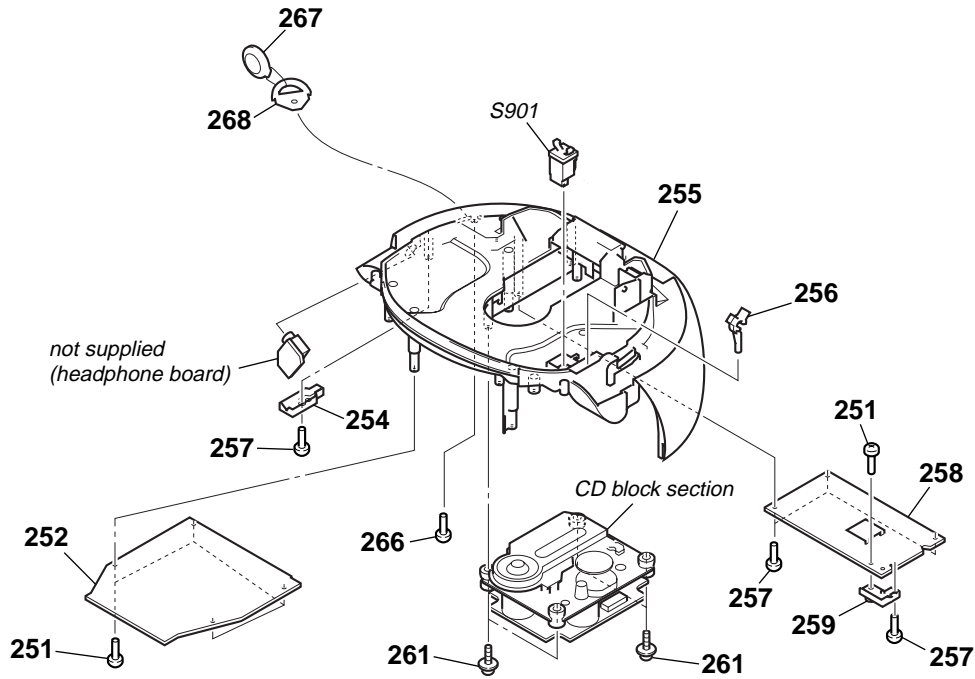
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	3-251-738-01	SHEET-DIFFUSION		156	A-4541-214-A	LED BOARD, COMPLETE	
152	3-247-675-01	PLATE, LIGHT GUIDE		* 157	A-3663-825-A	LCD BOARD, COMPLETE	
153	3-251-739-01	SHEET-REFLECTION		158	1-689-172-12	JOG BOARD	
154	3-247-669-01	HOLDER, LCD		IC401	6-600-108-01	IC RPM7140 (REMOTE CONTROL RECEIVER)	
155	3-250-762-01	REMOTE HOLDER		LCD401	1-805-207-11	DISPLAY PANEL, LIQUID CRYSTAL	

7-5. MD BLOCK SECTION



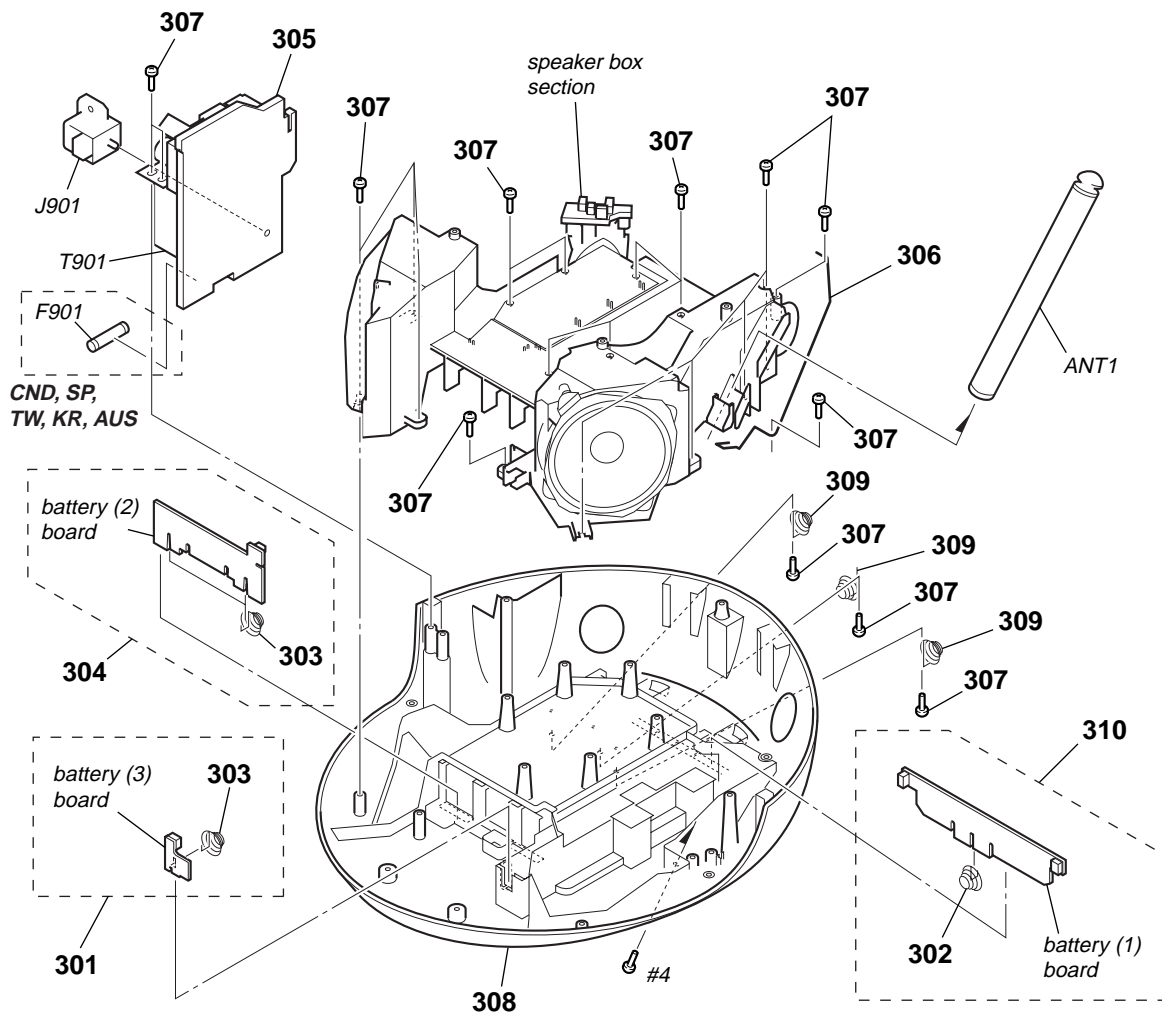
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-247-659-01	BUTTON (MD) (PAUSE) (⏸) (for BLUE/RED/YELLOW (PSYC), WHITE (LIV))		204	3-247-658-11	BUTTON (MD) (FWD) (⏩) (for SILVER, BLUE (ORIGINAL), WHITE (WALMART))	
201	3-247-659-11	BUTTON (MD) (PAUSE) (⏸) (for SILVER, BLUE (ORIGINAL), WHITE (WALMART))		205	3-247-660-01	BUTTON (MD) (PLAY) (⏪) (for BLUE/RED/YELLOW (PSYC), WHITE (LIV))	
202	3-247-663-01	BUTTON (MD) (STOP/EJECT) (⏹) (for BLUE/RED/YELLOW (PSYC), WHITE (LIV))		205	3-247-660-11	BUTTON (MD) (PLAY) (⏪) (for SILVER, BLUE (ORIGINAL), WHITE (WALMART))	
202	3-247-663-11	BUTTON (MD) (STOP/EJECT) (⏹) (for SILVER, BLUE (ORIGINAL), WHITE (WALMART))		206	3-247-661-01	BUTTON (MD) (REC) (●) (for BLUE/RED/YELLOW (PSYC), WHITE (LIV))	
203	3-247-662-01	BUTTON (MD) (REW) (⏮) (for BLUE/RED/YELLOW (PSYC), WHITE (LIV))		206	3-247-661-11	BUTTON (MD) (REC) (●) (for SILVER, BLUE (ORIGINAL), WHITE (WALMART))	
203	3-247-662-11	BUTTON (MD) (REW) (⏮) (for SILVER, BLUE (ORIGINAL), WHITE (WALMART))		* 207	A-3683-864-A	TC BOARD, COMPLETE	
204	3-247-658-01	BUTTON (MD) (FWD) (⏩) (for BLUE/RED/YELLOW (PSYC), WHITE (LIV))		208	3-237-719-02	CHASSIS, TC	
				209	3-237-718-01	LEVER, REC	
				210	3-030-741-01	SCREW (M2X2)	
				#2	7-685-851-04	SCREW +BVTT 2X4 (S)	

7-6. CABINET UPPER SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	4-951-620-01	SCREW (2.6X8), +BVTP		255	3-250-720-61	CABINET (UPPER) (RED (PSYC: CND))	
* 252	A-3347-999-A	MAIN BOARD, COMPLETE (US (EXCEPT LIV), CND)		256	3-232-770-01	STOPPER (CD)	
* 252	A-3683-420-A	MAIN BOARD, COMPLETE (E)		257	4-951-620-11	SCREW (2.6X10), +BVTP	
* 252	A-3683-678-A	MAIN BOARD, COMPLETE (AUS, KR, TW)		* 258	A-3611-782-A	TUNER BOARD, COMPLETE (AUS, KR, SP, TW)	
* 252	A-3683-679-A	MAIN BOARD, COMPLETE (SP)		* 258	A-3663-818-A	TUNER BOARD, COMPLETE (US, CND, E)	
* 252	A-4541-250-A	MAIN BOARD, COMPLETE (US (LIV))		259	3-250-723-01	TUNER PC BOARD HOLDER	
254	3-250-722-01	H/P BRACKET		261	3-921-725-11	SCREW (2.6X10), +PWH	
255	3-247-649-11	CABINET (UPPER) (WHITE (LIV))		266	3-895-517-31	SCREW (2) (BLUE/RED/YELLOW (PSYC))	
255	3-247-649-21	CABINET (UPPER) (BLUE (ORIGINAL))		267	3-250-271-01	TAG (PSYC) (for RED) (BLUE/RED/YELLOW (PSYC))	
255	3-247-649-31	CABINET (UPPER) (WHITE (WALMART))		267	3-250-271-11	TAG (PSYC) (for BLUE) (BLUE/RED/YELLOW (PSYC))	
255	3-247-649-41	CABINET (UPPER) (SILVER)		267	3-250-271-21	TAG (PSYC) (for YELLOW) (BLUE/RED/YELLOW (PSYC))	
255	3-250-720-01	CABINET (UPPER) (BLUE (PSYC: US))		268	3-250-623-01	RING.D	
255	3-250-720-11	CABINET (UPPER) (RED (PSYC: US))		S901	1-692-960-11	SWITCH, PUSH (1 KEY) (CD LID OPEN/CLOSE)	
255	3-250-720-21	CABINET (UPPER) (YELLOW)					
255	3-250-720-41	CABINET (UPPER) (BLUE (PSYC: CND))					

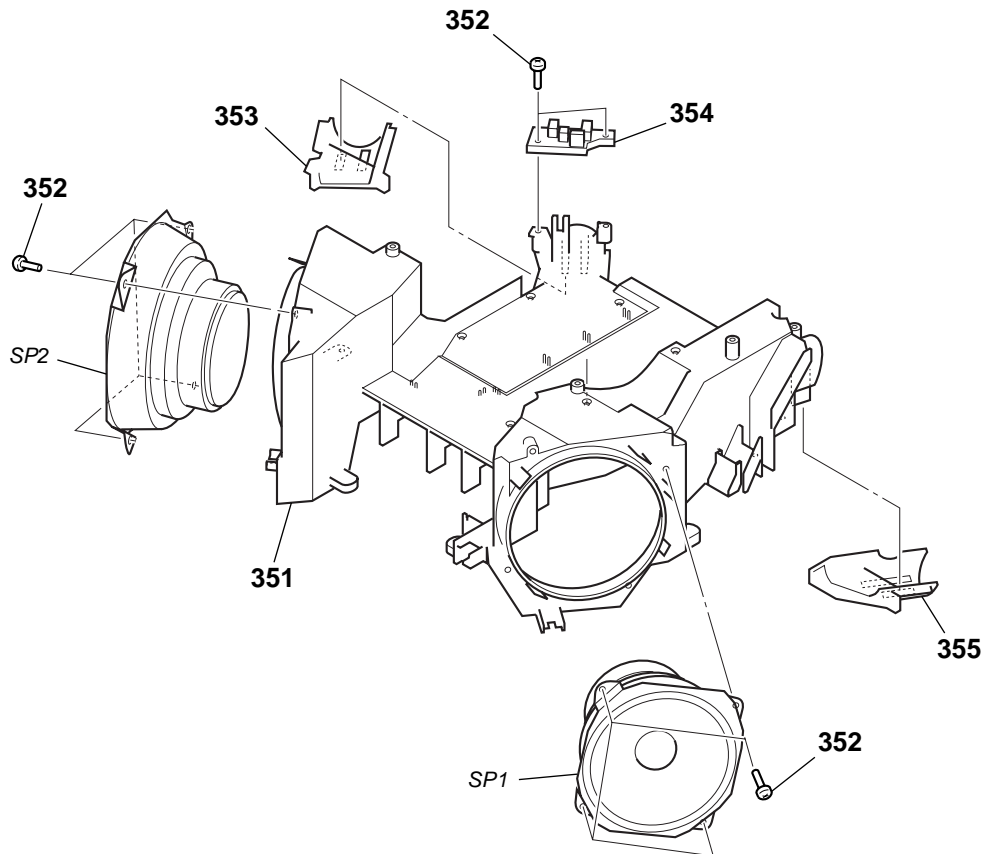
7-7. CABINET UNDER SECTION



<p>The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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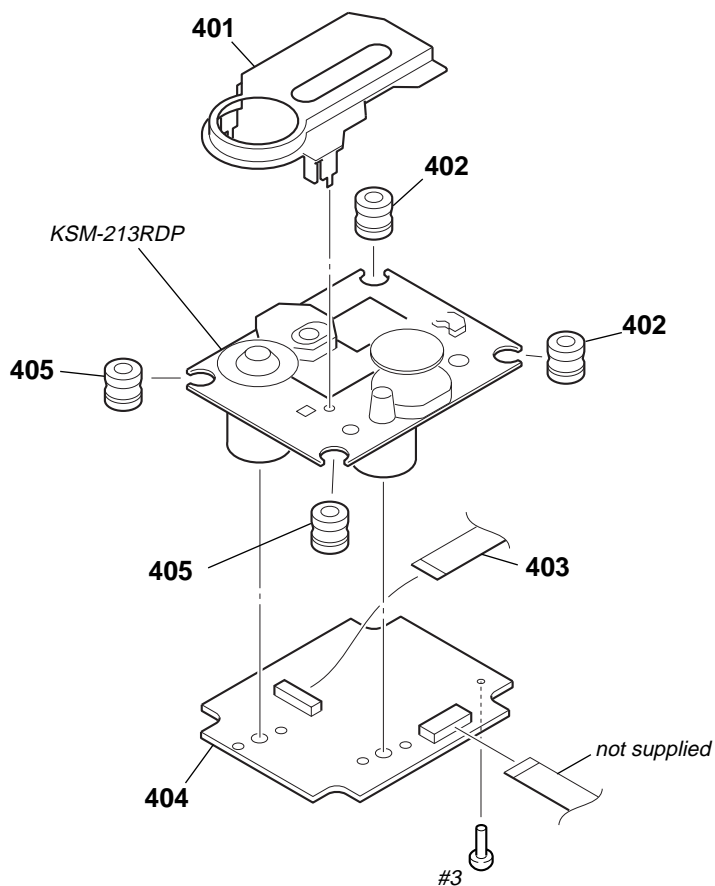
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 301	A-3663-823-A	BATTERY (3) BOARD, COMPLETE		308	3-247-650-81	CABINET (LOWER) (RED (PSYC: CND))	
302	3-229-976-01	SPRING BATTERY (S) (-)		308	3-250-727-01	CABINET UNDER (BLUE (ORIGINAL))	
303	3-229-975-01	SPRING BATTERY (-)		308	3-250-727-11	CABINET UNDER (SILVER)	
* 304	A-3663-822-A	BATTERY (2) BOARD, COMPLETE		309	3-252-540-01	SPRING BATTERY (+, -)	
* 305	A-3663-820-A	POWER BOARD, COMPLETE (US, E)		* 310	A-3663-821-A	BATTERY (1) BOARD, COMPLETE	
* 305	A-3683-403-A	POWER BOARD, COMPLETE (CND, AUS, KR, SP, TW)		ANT1	1-754-282-11	ANTENNA, TELESCOPIC	
306	3-247-685-01	TERMINAL, ANTENNA		Δ F901	1-533-469-11	FUSE, GLASS TUBE (DIA. 5) (T2.5AL/250V) (CND, AUS, KR, SP)	
307	4-951-620-11	SCREW (2.6X10), +BVTP		Δ J901	1-526-818-11	INLET, AC (E, TW)	
308	3-247-650-01	CABINET (LOWER) (BLUE (PSYC: US))		Δ J901	1-526-838-11	INLET, AC 2P (AUS, KR, SP)	
308	3-247-650-11	CABINET (LOWER) (WHITE (LIV))		Δ J901	1-540-009-11	INLET, AC (US, CND)	
308	3-247-650-21	CABINET (LOWER) (YELLOW)		Δ T901	1-439-712-11	TRANSFORMER, POWER (US, E, TW)	
308	3-247-650-31	CABINET (LOWER) (RED (PSYC: US))		Δ T901	1-439-713-11	TRANSFORMER, POWER (AUS, KR, SP)	
308	3-247-650-41	CABINET (LOWER) (WHITE (WALMART))		#4	7-682-548-04	SCREW +B 3X8	
308	3-247-650-61	CABINET (LOWER) (BLUE (PSYC: CND))					

7-8. SPEAKER BOX SECTION



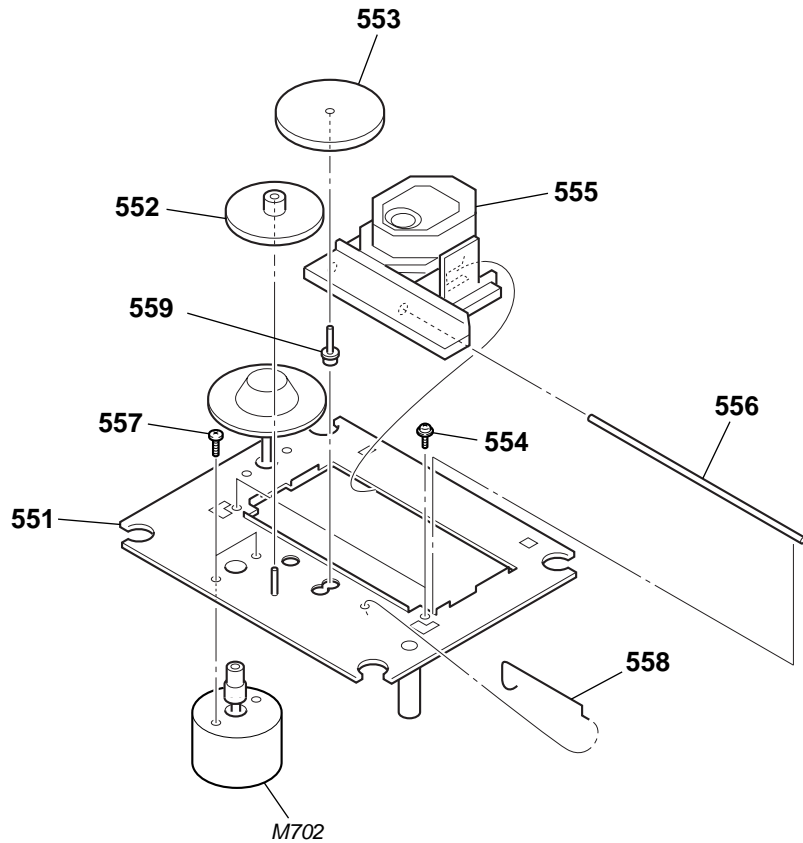
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
351	3-247-672-01	BOX, SPEAKER		355	3-250-730-01	DUCT COVER R	
352	4-951-620-01	SCREW (2.6X8), +BVTP		SP1	1-825-474-11	SPEAKER (8cm) (R)	
353	3-250-729-01	DUCT COVER L		SP2	1-825-474-11	SPEAKER (8cm) (L)	
* 354	A-3663-824-A	RELAY BOARD, COMPLETE					

7-9. CD BLOCK SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
401	3-923-736-01	COVER, CD		* 404	A-3683-956-A	CD BOARD, COMPLETE (US, CND, E)	
402	3-931-379-31	RUBBER, VIBRATION PROOF		405	3-931-379-21	RUBBER, VIBRATION PROOF	
403	1-757-689-11	CABLE, FLEXIBLE FLAT (16 CORE)		#3	7-685-853-04	SCREW +BVTT 2X6 (S)	
* 404	A-3178-122-A	CD BOARD, COMPLETE (AUS, KR, SP, TW)					

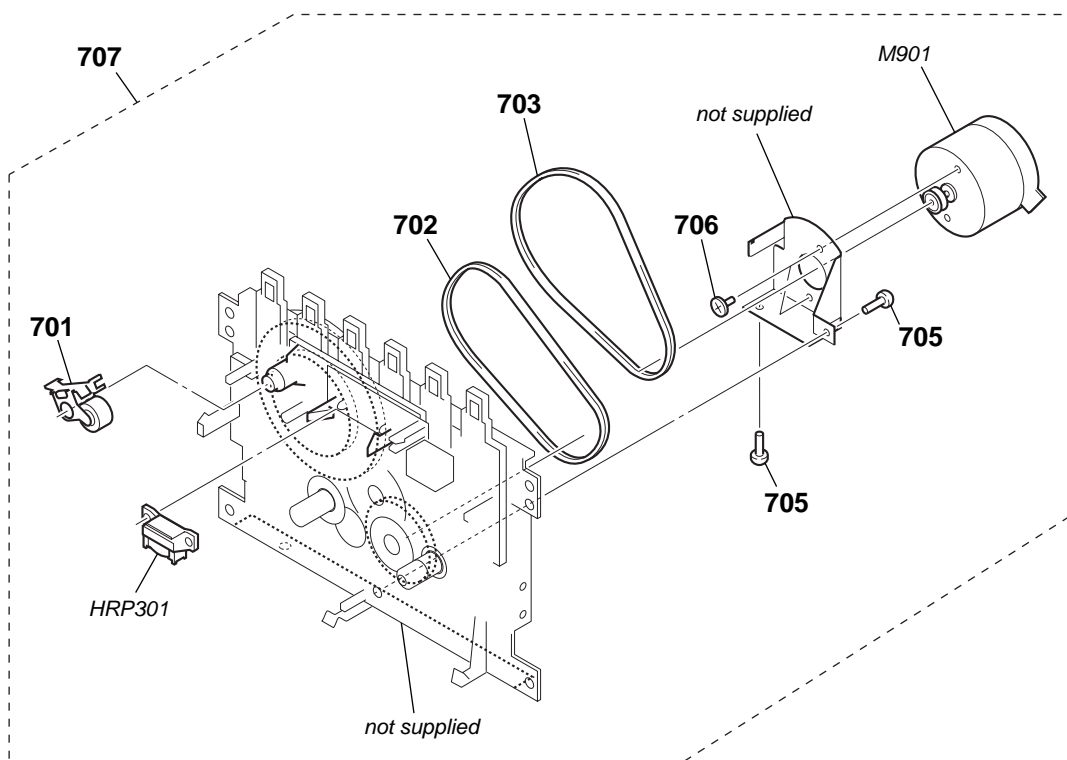
7-10. OPTICAL PICK-UP SECTION
(KSM-213RDP)



<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
551	X-2162-707-1	CHASSIS ASSY (RDP) (RP), MOTOR (SPINDLE) (including M701)		556	2-626-908-01	SHAFT, SLED	
* 552	2-647-408-02	GEAR (B)		557	3-713-786-51	SCREW (M2X3)	
* 553	2-169-065-01	GEAR (A)		* 558	2-169-385-01	SPRING, SLED	
554	2-169-388-01	TAPPING (M2), +PWB		* 559	2-169-384-01	SHAFT (S), GEAR	
\triangle 555	8-820-161-02	OPTICAL PICK-UP (KSS-213R/C2RP)		M702	X-2162-712-1	GEAR ASSY (R) (RP), MOTOR (SLED)	

7-11. TAPE MECHANISM DECK SECTION
(MF-E95)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
701	3-244-086-01	ARM, PINCH ROLLER		706	3-244-083-01	+ SCREW BIND DT M2X6	
702	3-244-079-01	BELT (B), SUB		707	A-3172-063-A	MECHANISM DECK ASSY (MF-E95)	
703	3-244-080-01	BELT (B), MAIN		HRP301	3-244-085-01	HEAD, R/P	
705	3-244-084-01	+ SCREW PAN M2.6X4.5		M901	3-244-082-01	PULLEY (MOTOR) (CAPSTAN/REEL)	

CD **HEADPHONE** **JOG** **LCD**

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< RESISTOR >				HEADPHONE BOARD *****	
JC701	1-216-864-11	SHORT CHIP	0			< JACK >	
JC702	1-216-864-11	SHORT CHIP	0				
JC703	1-216-864-11	SHORT CHIP	0				
JC704	1-216-821-11	METAL CHIP	1K	5%	1/10W	J321	1-815-325-11 JACK (PHONES)
		< FERRITE BEAD >					< CABLE HOLDER >
L706	1-414-445-11	FERRITE	0uH			KH324	1-824-030-11 HOLDER, CABLE 5P
		< TRANSISTOR >					< RESISTOR >
Q701	8-729-054-57	TRANSISTOR	KTN2907AS-RTK			R132	1-216-809-11 METAL CHIP 100 5% 1/10W
		< RESISTOR >				R232	1-216-809-11 METAL CHIP 100 5% 1/10W

R701	1-216-841-11	METAL CHIP	47K	5%	1/10W		1-689-172-12 JOG BOARD
R702	1-216-835-11	METAL CHIP	15K	5%	1/10W		*****
R703	1-216-835-11	METAL CHIP	15K	5%	1/10W		< ROTARY ENCODER >
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	RE401	1-476-747-11 ENCODER (-I◀◀ ▶▶I+)
R707	1-216-797-11	METAL CHIP	10	5%	1/10W	*****	
R708	1-216-833-11	METAL CHIP	10K	5%	1/10W	*	A-3663-825-A LCD BOARD, COMPLETE
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		3-247-669-01 HOLDER, LCD
R712	1-216-809-11	METAL CHIP	100	5%	1/10W		3-247-675-01 PLATE, LIGHT GUIDE
R714	1-216-811-11	METAL CHIP	150	5%	1/10W		3-250-762-01 REMOTE HOLDER
R715	1-216-811-11	METAL CHIP	150	5%	1/10W		3-251-738-01 SHEET-DIFFUSION
R716	1-216-821-11	METAL CHIP	1K	5%	1/10W		3-251-739-01 SHEET-REFLECTION
R717	1-216-821-11	METAL CHIP	1K	5%	1/10W		< CAPACITOR >
R718	1-216-821-11	METAL CHIP	1K	5%	1/10W	C401	1-115-156-11 CERAMIC CHIP 1uF 10V
R719	1-216-809-11	METAL CHIP	100	5%	1/10W		< CONNECTOR >
R720	1-216-809-11	METAL CHIP	100	5%	1/10W		
R721	1-216-821-11	METAL CHIP	1K	5%	1/10W	*	CNP411 1-566-758-11 PIN, CONNECTOR (PC BOARD) 3P
R722	1-216-809-11	METAL CHIP	100	5%	1/10W		< DIODE >
R723	1-216-809-11	METAL CHIP	100	5%	1/10W		
R724	1-216-841-11	METAL CHIP	47K	5%	1/10W	D405	8-719-083-93 DIODE KDS120-RTK
R725	1-216-819-11	METAL CHIP	680	5%	1/10W	D406	8-719-059-97 DIODE L-34HD (OPR/BATT)
R726	1-216-819-11	METAL CHIP	680	5%	1/10W		< IC >
R727	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	IC401	6-600-108-01 IC RPM7140 (REMOTE CONTROL RECEIVER)
R728	1-216-833-11	METAL CHIP	10K	5%	1/10W		< LIQUID CRYSTAL DISPLAY >
R729	1-216-813-11	METAL CHIP	220	5%	1/10W	LCD401	1-805-207-11 DISPLAY PANEL, LIQUID CRYSTAL
R730	1-216-821-11	METAL CHIP	1K	5%	1/10W		< TRANSISTOR >
R731	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		
R732	1-216-841-11	METAL CHIP	47K	5%	1/10W	Q402	8-729-029-13 TRANSISTOR DTC143ZUA-T106
R741	1-218-867-11	METAL CHIP	6.8K	5%	1/10W	Q403	8-729-029-13 TRANSISTOR DTC143ZUA-T106
R743	1-218-867-11	METAL CHIP	6.8K	5%	1/10W	Q404	8-729-029-13 TRANSISTOR DTC143ZUA-T106
R744	1-216-845-11	METAL CHIP	100K	5%	1/10W	Q409	8-729-028-90 TRANSISTOR DTA143ZUA-T106
		< SWITCH >					< RESISTOR >
S701	1-571-936-11	SWITCH, LEAF (LIMIT)				R401	1-216-813-11 METAL CHIP 220 5% 1/10W
		< VIBRATOR >				R402	1-216-817-11 METAL CHIP 470 5% 1/10W
X701	1-781-801-21	VIBRATOR, CERAMIC (16.9344MHz)				R403	1-216-817-11 METAL CHIP 470 5% 1/10W

						R404	1-216-817-11 METAL CHIP 470 5% 1/10W
						R405	1-216-821-11 METAL CHIP 1K 5% 1/10W

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LCD	LED	MAIN
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Ref. No.	Part No.	Description	Remark
R406	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R407	1-216-821-11	METAL CHIP	1K 5% 1/10W
R408	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R409	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R410	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R411	1-216-833-11	METAL CHIP	10K 5% 1/10W
R412	1-216-833-11	METAL CHIP	10K 5% 1/10W
R413	1-216-813-11	METAL CHIP	220 5% 1/10W
R414	1-216-817-11	METAL CHIP	470 5% 1/10W
R415	1-216-817-11	METAL CHIP	470 5% 1/10W
R416	1-216-817-11	METAL CHIP	470 5% 1/10W
R417	1-216-821-11	METAL CHIP	1K 5% 1/10W
R418	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R419	1-216-821-11	METAL CHIP	1K 5% 1/10W
R420	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R421	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R422	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R423	1-216-833-11	METAL CHIP	10K 5% 1/10W
R424	1-216-833-11	METAL CHIP	10K 5% 1/10W
R425	1-216-813-11	METAL CHIP	220 5% 1/10W
R429	1-216-813-11	METAL CHIP	220 5% 1/10W
R430	1-216-809-11	METAL CHIP	100 5% 1/10W
R431	1-216-821-11	METAL CHIP	1K 5% 1/10W
R432	1-216-809-11	METAL CHIP	100 5% 1/10W
R434	1-216-821-11	METAL CHIP	1K 5% 1/10W
R438	1-216-821-11	METAL CHIP	1K 5% 1/10W
R439	1-216-821-11	METAL CHIP	1K 5% 1/10W
R440	1-216-841-11	METAL CHIP	47K 5% 1/10W
< SWITCH >			
S401	1-786-050-21	SWITCH, KEY BOARD (STANDBY)	
S402	1-786-050-21	SWITCH, KEY BOARD (POWER)	
S403	1-786-050-21	SWITCH, KEY BOARD (CLOCK/SLEEP/TIMER)	
S404	1-786-050-21	SWITCH, KEY BOARD (COLOR)	
S405	1-786-050-21	SWITCH, KEY BOARD (DISPLAY)	
S406	1-786-050-21	SWITCH, KEY BOARD (ENTER)	
S407	1-786-050-21	SWITCH, KEY BOARD (MEGABASS)	
S408	1-786-050-21	SWITCH, KEY BOARD (VOLUME)	
S409	1-786-050-21	SWITCH, KEY BOARD (■)	
S410	1-786-050-21	SWITCH, KEY BOARD (▶▶)	
S411	1-786-050-21	SWITCH, KEY BOARD (RADIO, BAND, AUTO PRESET)	
S413	1-786-050-21	SWITCH, KEY BOARD (◀◀ TUNE-)	
S414	1-786-050-21	SWITCH, KEY BOARD (▶▶ TUNE+)	
S415	1-786-050-21	SWITCH, KEY BOARD (VOLUME +)	
S416	1-786-050-21	SWITCH, KEY BOARD (VOLUME -)	

*	A-4541-214-A	LED BOARD *****	
<LED >			
D402	6-500-623-01	LED SML-011EBTT86T (LCD BACKLIGHT) (GREEN)	
D403	6-500-622-01	LED SML-012YTT86R (LCD BACKLIGHT) (ORANGE)	
D404	6-500-621-01	LED SML-012UTT86S (LCD BACKLIGHT) (RED)	

Ref. No.	Part No.	Description	Remark
< RESISTOR >			
R436	1-216-805-11	METAL CHIP	47 5% 1/10W
R437	1-216-805-11	METAL CHIP	47 5% 1/10W
R441	1-216-864-11	SHORT CHIP	0
R442	1-216-801-11	METAL CHIP	22 5% 1/10W
R443	1-216-801-11	METAL CHIP	22 5% 1/10W
R444	1-216-813-11	METAL CHIP	220 5% 1/10W

*	A-3347-999-A	MAIN BOARD, COMPLETE (US (EXCEPT LIV), CND)	
*	A-3683-420-A	MAIN BOARD, COMPLETE (E)	
*	A-3683-678-A	MAIN BOARD, COMPLETE (TW, KR, AUS)	
*	A-3683-679-A	MAIN BOARD, COMPLETE (SP)	
*	A-4541-250-A	MAIN BOARD, COMPLETE (US (LIV)) *****	
< CAPACITOR >			
C110	1-115-871-11	ELECT	1uF 20% 50V
C122	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C124	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V
C125	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
C126	1-115-871-11	ELECT	1uF 20% 50V
C133	1-126-794-11	ELECT	4.7uF 20% 50V
C134	1-126-794-11	ELECT	4.7uF 20% 50V
C162	1-115-871-11	ELECT	1uF 20% 50V
C163	1-115-156-11	CERAMIC CHIP	1uF 10V
C210	1-115-871-11	ELECT	1uF 20% 50V
C222	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C224	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V
C225	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
C226	1-115-871-11	ELECT	1uF 20% 50V
C233	1-126-794-11	ELECT	4.7uF 20% 50V
C234	1-126-794-11	ELECT	4.7uF 20% 50V
C262	1-115-871-11	ELECT	1uF 20% 50V
C263	1-115-156-11	CERAMIC CHIP	1uF 10V
C331	1-126-926-11	ELECT	1000uF 20% 10V
C332	1-162-974-11	CERAMIC CHIP	0.01uF 50V
C334	1-126-935-11	ELECT	470uF 20% 10V
C350	1-126-783-11	ELECT	22uF 20% 10V
C351	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V
C352	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V
C801	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C802	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
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	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C812	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C813	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C814	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V
C815	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V
C818	1-162-927-11	CERAMIC CHIP	100PF 5% 50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C819	1-162-927-11	CERAMIC CHIP	100PF 5%	50V	Q225	8-729-905-34	TRANSISTOR 2SC4081T106Q
C820	1-115-156-11	CERAMIC CHIP	1uF	10V	Q801	8-729-029-16	TRANSISTOR DTC144VUA-T106
C821	1-115-156-11	CERAMIC CHIP	1uF	10V			
C822	1-126-176-11	ELECT	220uF 20%	10V	Q805	8-729-028-92	TRANSISTOR DTA144TUA-T106
C823	1-164-156-11	CERAMIC CHIP	0.1uF	25V	Q806	8-729-029-13	TRANSISTOR DTC143ZUA-T106
					Q813	8-729-029-13	TRANSISTOR DTC143ZUA-T106
C830	1-162-968-11	CERAMIC CHIP	0.0047uF 10%	50V	Q957	8-729-036-86	TRANSISTOR KTC3203Y-AT
C831	1-162-968-11	CERAMIC CHIP	0.0047uF 10%	50V	Q958	8-729-028-90	TRANSISTOR DTA143ZUA-T106
C832	1-162-966-11	CERAMIC CHIP	0.0022uF 10%	50V			
C833	1-162-927-11	CERAMIC CHIP	100PF 5%	50V	Q959	8-729-029-13	TRANSISTOR DTC143ZUA-T106
C920	1-126-795-11	ELECT	10uF 20%	50V			
						< RESISTOR >	
C932	1-128-499-11	ELECT	220uF 20%	16V	R125	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
C957	1-162-974-11	CERAMIC CHIP	0.01uF	50V	R126	1-216-817-11	METAL CHIP 470 5% 1/10W
C959	1-126-382-11	ELECT	100uF 20%	10V	R127	1-216-833-11	METAL CHIP 10K 5% 1/10W
C960	1-164-156-11	CERAMIC CHIP	0.1uF	25V	R128	1-216-817-11	METAL CHIP 470 5% 1/10W
		< CONNECTOR >			R140	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
CNP310	1-784-774-11	CONNECTOR, FFC 13P			R143	1-216-845-11	METAL CHIP 100K 5% 1/10W
* CNP311	1-815-444-11	PIN, CONNECTOR (PWB) 3P			R145	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
* CNP313	1-785-663-11	PIN, CONNECTOR (PC BOARD) 11P			R146	1-216-849-11	METAL CHIP 220K 5% 1/10W
CNP314	1-815-443-11	PIN, CONNECTOR (PWB) 2P			R147	1-216-821-11	METAL CHIP 1K 5% 1/10W
CNP331	1-815-447-11	PIN, CONNECTOR (PWB) 6P			R149	1-216-821-11	METAL CHIP 1K 5% 1/10W
CNP801	1-568-826-11	CONNECTOR, FFC 7P			R225	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
CNP802	1-784-784-11	CONNECTOR, FFC 23P			R226	1-216-817-11	METAL CHIP 470 5% 1/10W
CNP803	1-784-775-11	CONNECTOR, FFC 14P			R227	1-216-833-11	METAL CHIP 10K 5% 1/10W
CNP804	1-784-767-11	CONNECTOR, FFC 6P			R228	1-216-817-11	METAL CHIP 470 5% 1/10W
		< DIODE >			R240	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
D322	8-719-988-61	DIODE 1SS355TE-17			R243	1-216-845-11	METAL CHIP 100K 5% 1/10W
D801	8-719-083-93	DIODE KDS120-RTK			R245	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
D920	8-719-082-07	DIODE KDS121-RTK			R246	1-216-849-11	METAL CHIP 220K 5% 1/10W
D921	8-719-069-54	DIODE UDZSTE-175.1B			R247	1-216-821-11	METAL CHIP 1K 5% 1/10W
D930	8-719-988-61	DIODE 1SS355TE-17			R249	1-216-821-11	METAL CHIP 1K 5% 1/10W
D957	8-719-083-58	DIODE UDZSTE-173.9B			R322	1-216-833-11	METAL CHIP 10K 5% 1/10W
		< IC >			R330	1-216-809-11	METAL CHIP 100 5% 1/10W
IC302	6-701-919-01	IC PT2257-S			R332	1-216-817-11	METAL CHIP 470 5% 1/10W
IC801	6-802-793-01	IC uPD789478GC-A04-8BT			R350	1-216-829-11	METAL CHIP 4.7K 5% 1/10W
IC802	6-701-560-01	IC BD4727G-TR			R351	1-216-833-11	METAL CHIP 10K 5% 1/10W
		< SHORT >			R352	1-216-833-11	METAL CHIP 10K 5% 1/10W
JC161	1-216-864-11	SHORT CHIP	0		R353	1-216-833-11	METAL CHIP 10K 5% 1/10W
JC261	1-216-864-11	SHORT CHIP	0		R354	1-216-817-11	METAL CHIP 470 5% 1/10W
JC801	1-216-864-11	SHORT CHIP	0		R355	1-216-817-11	METAL CHIP 470 5% 1/10W
JC804	1-216-864-11	SHORT CHIP	0		R801	1-216-833-11	METAL CHIP 10K 5% 1/10W
		< CABLE HOLDER >			R802	1-216-833-11	METAL CHIP 10K 5% 1/10W
KH802	1-824-028-11	HOLDER, CABLE 2P			R803	1-216-829-11	METAL CHIP 4.7K 5% 1/10W
		< COIL >			R804	1-216-841-11	METAL CHIP 47K 5% 1/10W
L801	1-414-137-31	INDUCTOR	0.22uH		R805	1-216-829-11	METAL CHIP 4.7K 5% 1/10W
L802	1-410-521-11	INDUCTOR	100uH		R806	1-216-829-11	METAL CHIP 4.7K 5% 1/10W
L804	1-410-509-11	INDUCTOR	10uH		R807	1-216-829-11	METAL CHIP 4.7K 5% 1/10W
L805	1-414-142-61	INDUCTOR	1uH		R808	1-216-829-11	METAL CHIP 4.7K 5% 1/10W
		< TRANSISTOR >			R809	1-216-829-11	METAL CHIP 4.7K 5% 1/10W
Q122	8-729-905-34	TRANSISTOR	2SC4081T106Q		R810	1-216-821-11	METAL CHIP 1K 5% 1/10W
Q125	8-729-905-34	TRANSISTOR	2SC4081T106Q		R811	1-216-821-11	METAL CHIP 1K 5% 1/10W
Q222	8-729-905-34	TRANSISTOR	2SC4081T106Q		R812	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
					R813	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
					R814	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
					R815	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
					R816	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
					R817	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
					R818	1-216-825-11	METAL CHIP 2.2K 5% 1/10W

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MAIN **POWER**

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R819	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R878	1-216-833-11	METAL CHIP	10K 5% 1/10W
R820	1-216-813-11	METAL CHIP	220 5% 1/10W (US (LIV))	R879	1-216-833-11	METAL CHIP	10K 5% 1/10W
R820	1-216-864-11	SHORT CHIP	0 (US (EXCEPT LIV), GND, E)	R880	1-216-833-11	METAL CHIP	10K 5% 1/10W
R820	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (SP)	R881	1-216-833-11	METAL CHIP	10K 5% 1/10W
R820	1-216-833-11	METAL CHIP	10K 5% 1/10W (TW, KR, AUS)	R882	1-216-833-11	METAL CHIP	10K 5% 1/10W
R821	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R883	1-216-833-11	METAL CHIP	10K 5% 1/10W
R822	1-216-864-11	SHORT CHIP	0 (US (EXCEPT LIV), GND, E)	R884	1-216-833-11	METAL CHIP	10K 5% 1/10W
R822	1-216-817-11	METAL CHIP	470 5% 1/10W (US (LIV), SP)	R885	1-216-833-11	METAL CHIP	10K 5% 1/10W
R822	1-216-829-11	METAL CHIP	4.7K 5% 1/10W (TW, KR, AUS)	R886	1-216-833-11	METAL CHIP	10K 5% 1/10W
R823	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R887	1-216-833-11	METAL CHIP	10K 5% 1/10W
R824	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R888	1-216-833-11	METAL CHIP	10K 5% 1/10W
R825	1-216-853-11	METAL CHIP	470K 5% 1/10W	R889	1-216-833-11	METAL CHIP	10K 5% 1/10W
R826	1-216-821-11	METAL CHIP	1K 5% 1/10W	R890	1-216-833-11	METAL CHIP	10K 5% 1/10W
R827	1-216-845-11	METAL CHIP	100K 5% 1/10W	R891	1-216-833-11	METAL CHIP	10K 5% 1/10W
R828	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R892	1-216-833-11	METAL CHIP	10K 5% 1/10W
R830	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R893	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R831	1-216-837-11	METAL CHIP	22K 5% 1/10W	R894	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R832	1-216-817-11	METAL CHIP	470 5% 1/10W	R895	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R833	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R897	1-216-833-11	METAL CHIP	10K 5% 1/10W
R834	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R898	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R836	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R899	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R841	1-216-841-11	METAL CHIP	47K 5% 1/10W	R920	1-216-817-11	METAL CHIP	470 5% 1/10W
R842	1-216-841-11	METAL CHIP	47K 5% 1/10W	R922	1-216-813-11	METAL CHIP	220 5% 1/10W
R843	1-216-841-11	METAL CHIP	47K 5% 1/10W	R923	1-216-813-11	METAL CHIP	220 5% 1/10W
R844	1-216-833-11	METAL CHIP	10K 5% 1/10W	R930	1-216-821-11	METAL CHIP	1K 5% 1/10W
R846	1-216-821-11	METAL CHIP	1K 5% 1/10W	R931	1-216-821-11	METAL CHIP	1K 5% 1/10W
R847	1-216-841-11	METAL CHIP	47K 5% 1/10W	R932	1-216-821-11	METAL CHIP	1K 5% 1/10W
R850	1-216-853-11	METAL CHIP	470K 5% 1/10W	R933	1-216-821-11	METAL CHIP	1K 5% 1/10W
R851	1-216-853-11	METAL CHIP	470K 5% 1/10W	R934	1-216-817-11	METAL CHIP	470 5% 1/10W
R854	1-216-833-11	METAL CHIP	10K 5% 1/10W	R935	1-216-817-11	METAL CHIP	470 5% 1/10W
R855	1-216-833-11	METAL CHIP	10K 5% 1/10W	R958	1-216-813-11	METAL CHIP	220 5% 1/10W
R856	1-216-837-11	METAL CHIP	22K 5% 1/10W	R959	1-216-809-11	METAL CHIP	100 5% 1/10W
R857	1-216-837-11	METAL CHIP	22K 5% 1/10W	R960	1-216-833-11	METAL CHIP	10K 5% 1/10W
R858	1-216-833-11	METAL CHIP	10K 5% 1/10W	< VIBRATOR >			
R859	1-216-833-11	METAL CHIP	10K 5% 1/10W	X801	1-795-950-11	VIBRATOR, CRYSTAL (32.768kHz)	
R860	1-216-833-11	METAL CHIP	10K 5% 1/10W	X802	1-795-054-21	VIBRATOR, CERAMIC (4.19MHz)	
R861	1-216-821-11	METAL CHIP	1K 5% 1/10W	*****			
R863	1-216-821-11	METAL CHIP	1K 5% 1/10W	*	A-3663-820-A	POWER BOARD, COMPLETE (US, E)	
R864	1-216-821-11	METAL CHIP	1K 5% 1/10W	*	A-3683-403-A	POWER BOARD, COMPLETE (EXCEPT US, E)	
R865	1-216-849-11	METAL CHIP	220K 5% 1/10W	*****			
R866	1-216-845-11	METAL CHIP	100K 5% 1/10W	1-533-233-31	FUSE HOLDER (EXCEPT US, E)		
R867	1-216-845-11	METAL CHIP	100K 5% 1/10W	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S		
R868	1-216-845-11	METAL CHIP	100K 5% 1/10W	< CAPACITOR >			
R869	1-216-821-11	METAL CHIP	1K 5% 1/10W	C128	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
R870	1-216-833-11	METAL CHIP	10K 5% 1/10W	C129	1-126-786-11	ELECT	47uF 20% 16V
R871	1-216-833-11	METAL CHIP	10K 5% 1/10W	C130	1-126-382-11	ELECT	100uF 20% 10V
R872	1-216-833-11	METAL CHIP	10K 5% 1/10W	C131	1-126-926-11	ELECT	1000uF 20% 10V
R873	1-216-833-11	METAL CHIP	10K 5% 1/10W	C132	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
R874	1-216-833-11	METAL CHIP	10K 5% 1/10W	C228	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
R875	1-216-833-11	METAL CHIP	10K 5% 1/10W	C229	1-126-786-11	ELECT	47uF 20% 16V
R876	1-216-833-11	METAL CHIP	10K 5% 1/10W	C230	1-126-382-11	ELECT	100uF 20% 10V
R877	1-216-833-11	METAL CHIP	10K 5% 1/10W	C231	1-126-926-11	ELECT	1000uF 20% 10V
				C232	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
				C322	1-126-786-11	ELECT	47uF 20% 16V

POWER

RELAY

TC

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C323	1-126-795-11	ELECT	10uF 20% 50V			< COIL >	
C324	1-162-974-11	CERAMIC CHIP	0.01uF 50V				
C333	1-126-796-11	ELECT	22uF 20% 25V				
C901	1-162-995-11	CERAMIC CHIP	2200PF 50V (US, E)	L910	1-414-142-61	INDUCTOR 1uH	
						< TRANSISTOR >	
C901	1-165-319-11	CERAMIC CHIP	0.1uF 50V (EXCEPT US, E)	Q124	8-729-029-10	TRANSISTOR DTC143TUA-T106	
C902	1-162-995-11	CERAMIC CHIP	2200PF 50V (US, E)	Q224	8-729-029-10	TRANSISTOR DTC143TUA-T106	
C902	1-165-319-11	CERAMIC CHIP	0.1uF 50V (EXCEPT US, E)	Q952	8-729-040-76	TRANSISTOR KTA1273-Y-AT	
C903	1-162-995-11	CERAMIC CHIP	2200PF 50V (US, E)	Q953	8-729-905-34	TRANSISTOR 2SC4081T106Q	
C903	1-165-319-11	CERAMIC CHIP	0.1uF 50V (EXCEPT US, E)	Q954	8-729-028-54	TRANSISTOR KTC3205-Y-AT	
				Q955	8-729-018-99	TRANSISTOR 2SD2394-F	
						< RESISTOR >	
C904	1-162-995-11	CERAMIC CHIP	2200PF 50V (US, E)	R130	1-216-813-11	METAL CHIP 220 5% 1/10W	
C904	1-165-319-11	CERAMIC CHIP	0.1uF 50V (EXCEPT US, E)	R131	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
C906	1-126-795-11	ELECT	10uF 20% 50V	R142	1-216-817-11	METAL CHIP 470 5% 1/10W	
C910	1-126-937-11	ELECT	4700uF 20% 16V	R144	1-216-789-11	METAL CHIP 2.2 5% 1/10W	
C912	1-164-156-11	CERAMIC CHIP	0.1uF 25V	R230	1-216-813-11	METAL CHIP 220 5% 1/10W	
C913	1-126-382-11	ELECT	100uF 20% 10V	R231	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
C953	1-126-382-11	ELECT	100uF 20% 16V	R242	1-216-817-11	METAL CHIP 470 5% 1/10W	
C954	1-126-935-11	ELECT	470uF 20% 10V	R244	1-216-789-11	METAL CHIP 2.2 5% 1/10W	
C955	1-164-156-11	CERAMIC CHIP	0.1uF 25V	R323	1-216-857-11	METAL CHIP 1M 5% 1/10W	
C956	1-162-974-11	CERAMIC CHIP	0.01uF 50V	R324	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
C958	1-162-974-11	CERAMIC CHIP	0.01uF 50V	R333	1-216-821-11	METAL CHIP 1K 5% 1/10W	
				R901	1-216-805-11	METAL CHIP 47 5% 1/10W	
				R950	1-216-841-11	METAL CHIP 47K 5% 1/10W	
				R951	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
				R952	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
						< TRANSFORMER >	
				R953	1-216-821-11	METAL CHIP 1K 5% 1/10W	
				R954	1-216-821-11	METAL CHIP 1K 5% 1/10W	
				R955	1-216-833-11	METAL CHIP 10K 5% 1/10W	
				R956	1-216-821-11	METAL CHIP 1K 5% 1/10W	
				R957	1-216-821-11	METAL CHIP 1K 5% 1/10W	
				R961	1-216-821-11	METAL CHIP 1K 5% 1/10W	
				R962	1-216-821-11	METAL CHIP 1K 5% 1/10W	
				R968	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
				R969	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
						< TRANSFORMER >	
				△ T901	1-439-712-11	TRANSFORMER, POWER (EXCEPT SP, KR, AUS)	
				△ T901	1-439-713-11	TRANSFORMER, POWER (SP, KR, AUS)	

				*	A-3663-824-A	RELAY BOARD, COMPLETE *****	
						< CONNECTOR >	
				* CNP322	1-815-552-11	PIN, CONNECTOR (PWB) 4P	
				* CNP324	1-815-553-11	PIN, CONNECTOR (PWB) 5P	
				CNP325	1-815-443-11	PIN, CONNECTOR (PWB) 2P	
				CNP326	1-815-443-21	PIN, CONNECTOR (PWB) 2P	

				*	A-3683-864-A	TC BOARD, COMPLETE *****	
						< CAPACITOR >	
				C101	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	

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-E95

Ver 1.2

TC TUNER

Ref. No.	Part No.	Description	Remark
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	
< SHORT >			
JC301	1-216-864-11	SHORT CHIP 0	
JC302	1-216-864-11	SHORT CHIP 0	
JC303	1-216-864-11	SHORT CHIP 0	
JC304	1-216-864-11	SHORT CHIP 0	
JC305	1-216-864-11	SHORT CHIP 0	
JC306	1-216-295-00	SHORT CHIP 0	
JC307	1-216-864-11	SHORT CHIP 0	
JC308	1-216-295-00	SHORT CHIP 0	
JC309	1-216-864-11	SHORT CHIP 0	
< TRANSISTOR >			
Q301	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q302	8-729-907-00	TRANSISTOR DTC114EUA-T106	
Q303	8-729-907-00	TRANSISTOR DTC114EUA-T106	
< 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

Ref. No.	Part No.	Description	Remark
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
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-3611-782-A	TUNER BOARD, COMPLETE (SP, TW, KR, AUS)	
*	A-3663-818-A	TUNER BOARD, COMPLETE (US, CND, E)	

< CAPACITOR >			
C1	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C4	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C7	1-162-910-11	CERAMIC CHIP 5PF 0.25PF	50V
C8	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C9	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V
C10	1-126-960-11	ELECT 1uF 20%	50V
C11	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C12	1-126-963-11	ELECT 4.7uF 20%	50V
C13	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
(US, CND, E)			
C14	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V
(US, CND, E)			
C14	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
(SP, TW, KR, AUS)			
C15	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V
(US, CND, E)			
C15	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
(SP, TW, KR, AUS)			
C18	1-126-934-11	ELECT 220uF 20%	10V
C20	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C21	1-126-960-11	ELECT 1uF 20%	50V
C22	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C23	1-126-960-11	ELECT 1uF 20%	50V
C24	1-162-960-11	CERAMIC CHIP 220PF 10%	50V
C26	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C27	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C29	1-104-665-11	ELECT 100uF 20%	10V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C30	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V			< SHORT >	
C31	1-162-919-11	CERAMIC CHIP	22PF 5% 50V				
C32	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	JC1	1-216-864-11	SHORT CHIP	0
C33	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	JC2	1-216-864-11	SHORT CHIP	0
C34	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	JC3	1-216-864-11	SHORT CHIP	0
C35	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	JC4	1-216-864-11	SHORT CHIP	0
C37	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	JC5	1-216-864-11	SHORT CHIP	0
C39	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	JC6	1-216-864-11	SHORT CHIP	0
C41	1-164-230-11	CERAMIC CHIP	220PF 5% 50V	JC11	1-216-864-11	SHORT CHIP	0
C42	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	JC12	1-216-864-11	SHORT CHIP	0
C43	1-162-919-11	CERAMIC CHIP	22PF 5% 50V	JC13	1-216-864-11	SHORT CHIP	0
C47	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V	JC24	1-216-864-11	SHORT CHIP	0 (SP, TW, KR, AUS)
C49	1-161-051-00	CERAMIC	0.01uF 10% 50V	JC33	1-216-864-11	SHORT CHIP	0
C51	1-162-919-11	CERAMIC CHIP	22PF 5% 50V	JC34	1-216-864-11	SHORT CHIP	0
C52	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V			< COIL >	
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 (MW)	
C56	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	L4	1-411-234-21	COIL, AM OSC	
C57	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	L11	1-414-142-11	INDUCTOR	1uH (US, CND, E)
C59	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	L21	1-410-509-11	INDUCTOR	10uH
C60	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V			< RESISTOR >	
C61	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	R1	1-216-815-11	METAL CHIP	330 5% 1/10W
C62	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	R2	1-216-817-11	METAL CHIP	470 5% 1/10W
C63	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	R3	1-216-833-11	METAL CHIP	10K 5% 1/10W
C65	1-126-963-11	ELECT	4.7uF 20% 50V	R4	1-216-833-11	METAL CHIP	10K 5% 1/10W
C66	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	R10	1-216-805-11	METAL CHIP	47 5% 1/10W
C68	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	R11	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
C77	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V (SP, TW, KR, AUS)	R13	1-216-821-11	METAL CHIP	1K 5% 1/10W
C78	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V (SP, TW, KR, AUS)	R24	1-216-813-11	METAL CHIP	220 5% 1/10W
C80	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	R30	1-216-835-11	METAL CHIP	15K 5% 1/10W
C95	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	R31	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
		< CERAMIC FILTER >		R32	1-216-845-11	METAL CHIP	100K 5% 1/10W
CF2	1-760-023-11	FILTER, CERAMIC		R40	1-216-849-11	METAL CHIP	220K 5% 1/10W
CF4	1-781-962-21	FILTER, CERAMIC		R41	1-216-833-11	METAL CHIP	10K 5% 1/10W
		< CONNECTOR >		R50	1-216-821-11	METAL CHIP	1K 5% 1/10W
* CNP1	1-785-663-11	PIN, CONNECTOR (PC BOARD) 11P		R51	1-216-833-11	METAL CHIP	10K 5% 1/10W
		< TRIMMER >		R52	1-216-864-11	SHORT CHIP	0
CT1	1-141-603-21	CAP, ADJ		R53	1-216-835-11	METAL CHIP	15K 5% 1/10W
CT3	1-141-601-21	CAP, ADJ		R54	1-216-817-11	METAL CHIP	470 5% 1/10W
		< DIODE >		R56	1-216-815-11	METAL CHIP	330 5% 1/10W
D1	8-719-078-48	DIODE KV1471ETR1-3		R58	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
D2	8-719-078-48	DIODE KV1471ETR1-3		R59	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
D3	8-719-050-69	DIODE KV1520NT		R60	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
D10	8-719-988-61	DIODE 1SS355TE-17		R61	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
D11	8-719-988-61	DIODE 1SS355TE-17		R63	1-216-833-11	METAL CHIP	10K 5% 1/10W
		< IC >		R65	1-216-833-11	METAL CHIP	10K 5% 1/10W
IC1	6-700-512-01	IC TA2149BN		R91	1-216-813-11	METAL CHIP	220 5% 1/10W
IC2	8-759-483-40	IC LC72137M-TLM		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)	

TUNER

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< VIBRATOR >				ACCESSORIES	

X1	1-795-449-11	VIBRATOR, CRYSTAL (75kHz)		△	1-557-287-11	CORD, POWER (E, TW)	
*****				△	1-575-131-11	CORD, POWER (SP)	
		MISCELLANEOUS		△	1-696-819-11	CORD, POWER (AUS)	
		*****		△	1-776-985-11	CORD, POWER (KR)	
				△	1-783-878-11	CORD, POWER (US, CND)	
5	1-452-899-11	MAGNET			3-238-070-01	LID, BATTERY CASE (RMT-CE95A/SC)	
403	1-757-689-11	CABLE, FLEXIBLE FLAT (16 CORE)				(for SILVER, WHITE)	
△ 555	8-820-161-02	OPTICAL PICK-UP (KSS-213R/C2RP)			3-249-676-12	MANUAL, INSTRUCTION (ENGLISH)	
ANT1	1-754-282-11	ANTENNA, TELESCOPIC				(US, CND, E, TW)	
△ F901	1-533-469-11	FUSE, GLASS TUBE (DIA. 5) (T2.5AL/250V)			3-249-676-22	MANUAL, INSTRUCTION (FRENCH) (CND)	
		(CND, AUS, KR, SP)			3-249-676-32	MANUAL, INSTRUCTION (ENGLISH, SPANISH)	
						(AUS, KR, SP)	
HRP301	3-244-085-01	HEAD, R/P			3-249-677-11	MANUAL, INSTRUCTION (SPANISH) (E)	
△ J901	1-526-818-11	INLET, AC (E, TW)			3-249-677-21	MANUAL, INSTRUCTION	
△ J901	1-526-838-11	INLET, AC 2P (AUS, KR, SP)				(TRADITIONAL CHINESE) (TW)	
△ J901	1-540-009-11	INLET, AC (US, CND)			3-249-677-31	MANUAL, INSTRUCTION (KOREAN) (KR)	
M702	X-2162-712-1	GEAR ASSY (R) (RP), MOTOR (SLED)			3-249-910-01	BATTERY COVER (for RMT-CE95A/RIC)	
						(for RED (PSYC))	
M901	3-244-082-01	PULLEY (MOTOR) (CAPSTAN/REEL)			3-249-910-11	BATTERY COVER (for RMT-CE95A/LIC)	
S901	1-692-960-11	SWITCH, PUSH (1 KEY) (CD LID OPEN/CLOSE)				(for BLUE (PSYC))	
SP1	1-825-474-11	SPEAKER (8cm) (R)			3-249-910-21	BATTERY CASE (for RMT-CE95A/YC)	
SP2	1-825-474-11	SPEAKER (8cm) (L)				(for YELLOW)	
△ T901	1-439-712-11	TRANSFORMER, POWER (US, E, TW)			3-703-044-26	LABEL, CAUTION (CND)	
△ T901	1-439-713-11	TRANSFORMER, POWER (AUS, KR, SP)		*	A-3172-076-A	REMOTE CONTROL UNIT (RMT-CE95A/LC)	
*****						(for BLUE (ORIGINAL))	
					A-3172-077-A	REMOTE CONTROL UNIT (RMT-CE95A/LIC)	
						(for BLUE (PSYC))	
					A-3172-078-A	REMOTE CONTROL UNIT (RMT-CE95A/RIC)	
						(for RED (PSYC))	
					A-3172-079-A	REMOTE CONTROL UNIT (RMT-CE95A/SC)	
						(for SILVER, WHITE)	
					A-3172-080-A	REMOTE CONTROL UNIT (RMT-CE95A/YC)	
						(for YELLOW)	

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-E95

SONY®

SERVICE MANUAL

Ver 1.2 2004.05

US Model
Canadian Model
E Model
Australian Model

SUPPLEMENT-1

File this supplement with the service manual.

Subject: Change of Optical Pick-up Block (KSM-213RDP→KSM-213CDP)

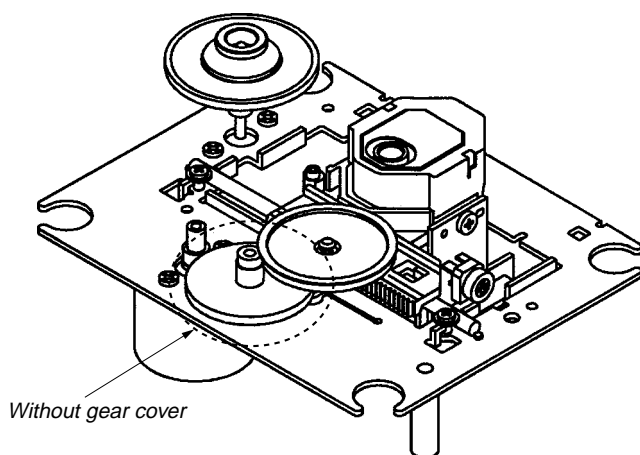
(SPM-04041)

Optical pick-up block is changed from KSM-213RDP to KSM-213CDP in the midway of production.

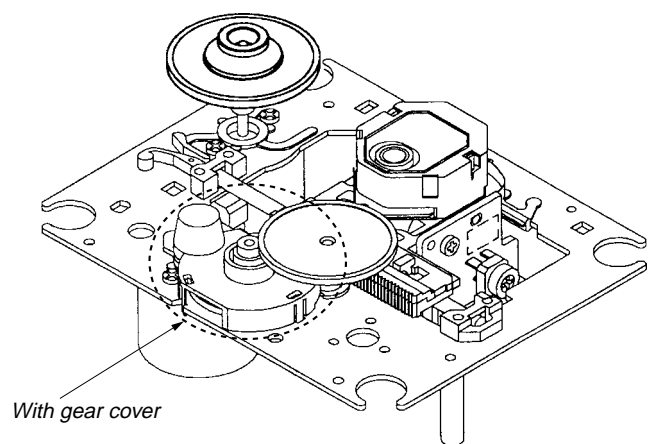
In performing the replacing of Optical pick-up block, be sure to check which Optical pick-up block is used, according to the following identification. SUPPLEMENT-1 has indicated only the information of KSM-213CDP.

IDENTIFICATION

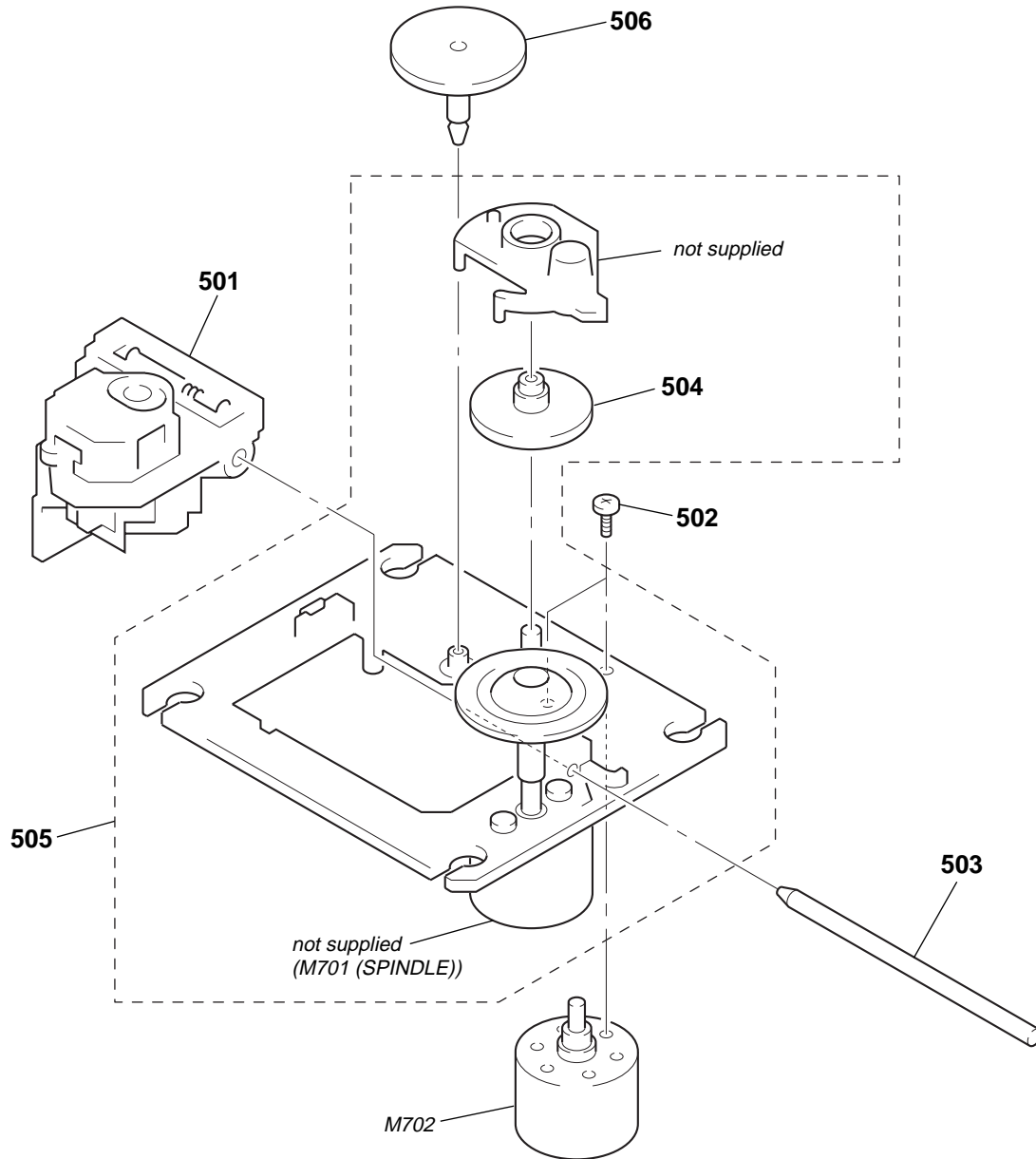
KSM-213RDP



KSM-213CDP



OPTICAL PICK-UP 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 501	8-848-483-12	OPTICAL PICK-UP (KSS-213C/C2RP1)		505	X-2162-709-2	CHASSIS ASSY (CDP), MOTOR (including M701 (SPINDLE))	
502	2-174-500-01	SCREW (2X3)		506	2-626-907-11	GEAR (A)	
503	2-626-908-01	SHAFT, SLED		M702	X-2625-769-1	GEAR ASSY (MB) (RP), MOTOR (SLED)	
504	2-627-003-01	GEAR (B) (RP)					

MEMO

