

HCD-CP100/CP100K

SERVICE MANUAL

Ver 1.1 2002.07



US Model
Canadian Model
AEP Model
UK Model
Australian Model
HCD-CP100
E Model
HCD-CP100/CP100K

HCD-CP100/CP100K is the Amplifier, CD player, Tape Deck and Tuner section in CMT-CP100/CP100K.

CD	Model Name Using Similar Mechanism	NEW
Section	CD Mechanism Type	CDM55F-K6BD41A
Tape deck	Model Name Using Similar Mechanism	NEW
Section		

SPECIFICATIONS

Amplifier section

For the U.S. model

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6-ohm loads, both channels driven, from 70 - 20,000 Hz; rated 18 watts per channel minimum RMS power, with no more than 0.9% total harmonic distortion from 250 milliwatts to rated output.

North American model:

Continuous RMS power output (reference):
35 + 35 W
(6 ohms at 1 kHz, 10% THD)

Total harmonic distortion less than 0.07% (6 ohms at 1 kHz, 18 W)

European model:

DIN power output (rated): 30 + 30 W
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
35 + 35 W
(6 ohms at 1 kHz, 10% THD)

Music power output (reference):
85 + 85 W

Other models:

The following measured at 230 V AC, 60 Hz
DIN power output (rated): 27 + 27 W
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
32 + 32 W
(6 ohms at 1 kHz, 10% THD)

The following measured at 220 V AC, 60 Hz
DIN power output (rated): 23 + 23 W
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
26 + 26 W
(6 ohms at 1 kHz, 10% THD)

Inputs

AUDIO IN MD (VIDEO) (phono jacks):
Sensitivity 500/250 mV,
impedance 47 kilohms

Outputs

OPTICAL DIGITAL OUT (CD):

Optical

PHONES (stereo phone jack):

Accepts headphones with
an impedance of 8 ohms
or more

SPEAKER:

Active speaker system,
6 ohms

– Continued on next page –

MICRO Hi-Fi COMPONENT SYSTEM

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2002G0500-1
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Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

SONY®

HCD-CP100/CP100K

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser ($\lambda = 780$ nm) Emission duration: continuous
Wavelength	780 - 790 nm
Frequency response	2 Hz - 20 kHz (± 0.5 dB)

Tape player section

Recording system	4-track 2-channel stereo
Frequency response	50 - 13,000 Hz (± 3 dB), using a Sony TYPE I cassette
Wow and flutter	$\pm 0.15\%$ W. Peak (IEC) 0.1% W. RMS (NAB) $\pm 0.2\%$ W. Peak (DIN)

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	
North American model:	87.5 - 108.0 MHz (100-kHz step)
Other models:	87.5 - 108.0 MHz (50-kHz step)
Antenna	FM wire antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
Pan-American model:	530 - 1,710 kHz (with the tuning interval set at 10 kHz) 531 - 1,710 kHz (with the tuning interval set at 9 kHz)
European model:	531 - 1,602 kHz (with the tuning interval set at 9 kHz)
Middle Eastern and Philippine models:	531 - 1,602 kHz (with the tuning interval set at 9 kHz)
Other models:	530 - 1,710 kHz (with the tuning interval set at 10 kHz) 531 - 1,602 kHz (with the tuning interval set at 9 kHz)
Antenna	AM loop antenna, external antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	
North American model:	120 V AC, 60 Hz
European model:	230 V AC, 50/60 Hz
Australian model:	220 - 240 V AC, 50/60 Hz
Mexican model:	120 V AC, 60 Hz
Other models:	110 - 120 V or 220 - 240 V AC, 50/60 Hz Adjustable with voltage selector

Power consumption	
European model:	See the nameplate 0.5 W (in the standby mode)
Other models:	See the nameplate

Dimensions (w/h/d)	Approx. 190 $\times$ 252 $\times$ 345 mm incl. projecting parts and controls
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Mass	Approx. 5.6 kg
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Design and specifications are subject to change
without notice.

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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.

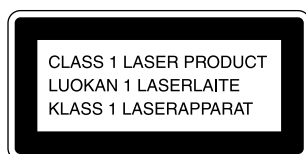
Flexible Circuit Board Repairing

- 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.

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



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

The following caution label is located inside the unit.



DANGER
INVISIBLE LASER
RADIATION WHEN OPEN
AND INTERLOCK
DEFEATED. AVOID
DIRECT EXPOSURE TO
BEAM.

DANGER
RADIATION DE LASER
INVISIBLE LORS D'OUVERTURE.
AVEC L'ENCLANCHÉMENT DE
SECURITE ANNULE. EVITER
L'EXPOSITION DIRECTE AU
RAYON.

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.

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)

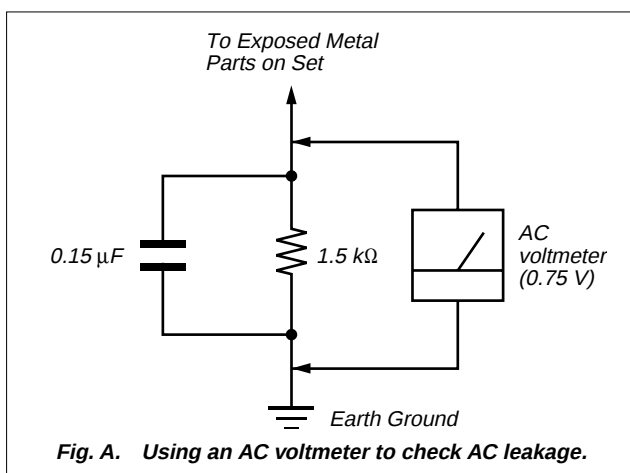


Fig. A. Using an AC voltmeter to check AC leakage.

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.

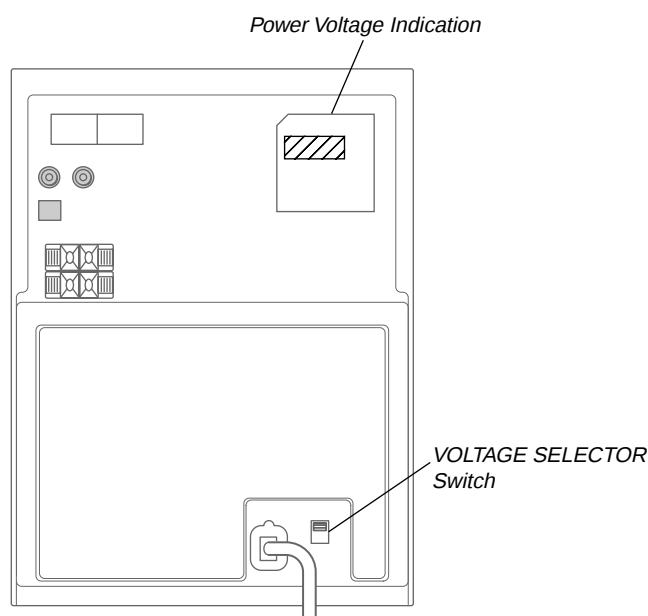
The flexible board is easily damaged and should be handled with care.

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.

• MODEL IDENTIFICATION

– Rear Panel –



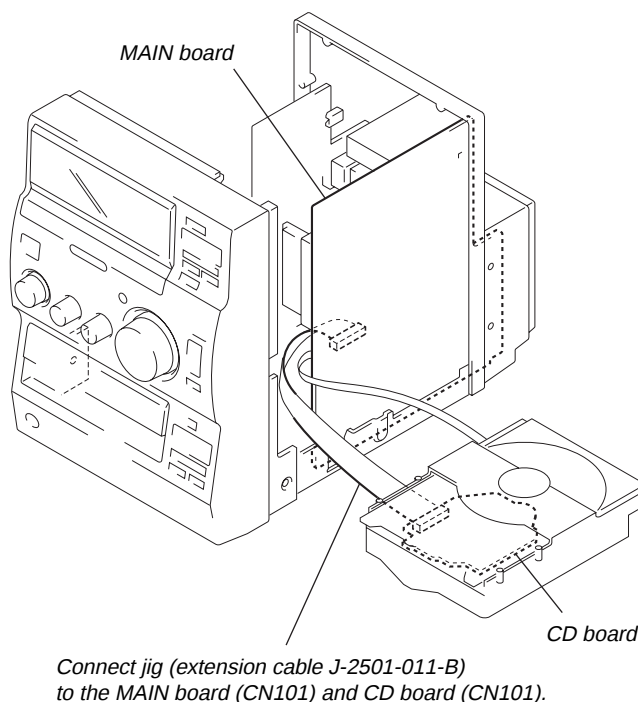
Model	Power Voltage Indication
US, CND, MX models	AC: 120 V 60 Hz 75 W
AEP, UK models	AC: 230 V ~50/60 Hz 75 W
E, EA, AR, SP, AUS models	AC: 110 – 120/ 220 – 240 V / 50/60 Hz 75 W
KR model	220 V/60 MHz 75 W

• Abbreviation

- AR : Argentina model.
- AUS : Australian model.
- CND : Canadian model.
- EA : Saudi Arabia model.
- KR : Korean model.
- MX : Mexican model.
- SP : Singapore model.
- TH : Thailand model.

SERVICE POSTION

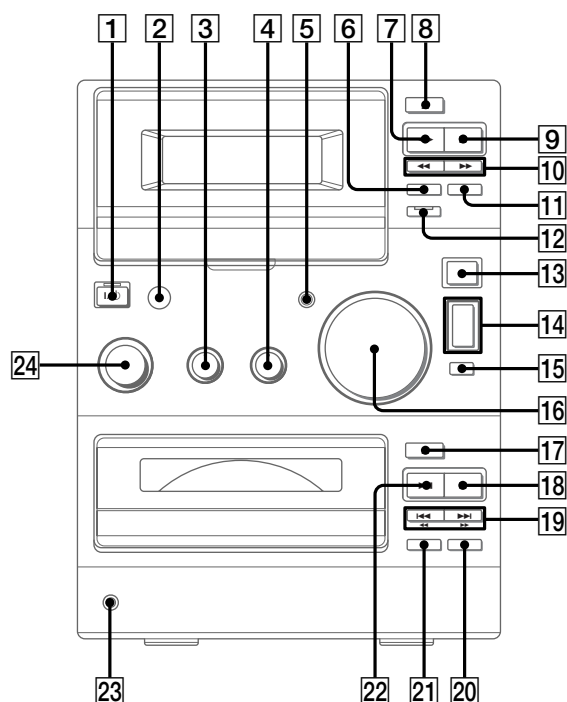
In checking the CD block, prepare jig (extension cable J-2501-011-B).



SECTION 2 GENERAL

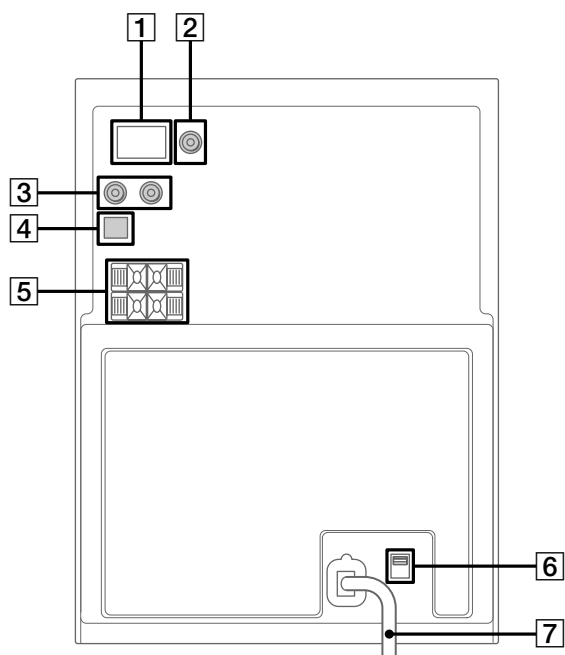
• LOCATION OF CONTROLS

– Front View –



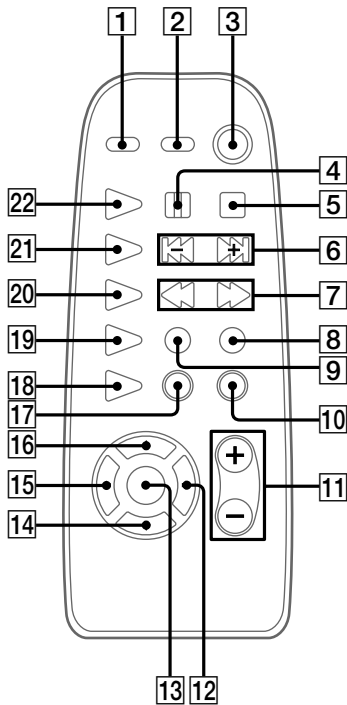
- 1 STANDBY I/⏻ button and indicator
- 2 Remote sensor
- 3 BASS knob
- 4 TREBLE knob
- 5 DSG button and indicator
- 6 TAPE REC ● button
- 7 TAPE ◀▶ button
- 8 TAPE EJECT ▲ button
- 9 TAPE ■ button
- 10 TAPE ◀◀ / ▶▶ button
- 11 TAPE || button
- 12 CD SYNC button and indicator
- 13 TUNER BAND button
- 14 TUNING +/- button
- 15 TUNING MODE button
- 16 VOLUME knob
- 17 CD EJECT ▲ button
- 18 CD ■ button
- 19 CD ◀◀◀◀ / ▶▶▶▶ button
- 20 REPEAT button
- 21 PLAY MODE button
- 22 CD ▶|| button
- 23 PHONES jack
- 24 FUNCTION knob

– Rear View –



- 1 AM ANTENNA terminals
- 2 FM ANTENNA jack or terminals
- 3 AUDIO IN MD (VIDEO) jacks
- 4 CD DIGITAL OUT OPTICAL connector
- 5 SPEAKER terminals
- 6 VOLTAGE SELECTOR switch
- 7 AC power cord

Remote Control



- 1 DSG button
- 2 DISPLAY button
- 3 I/⏻ (power) button
- 4 || button
- 5 ■ button
- 6 ◀◀ / ▶▶ buttons
- 7 ◀ / ▶ buttons
- 8 ● REC button
- 9 PLAY MODE button
- 10 TUNING MODE button
- 11 VOLUME +/- buttons

- 12 TIMER SELECT button
- 13 ENTER button
- 14 SLEEP button
- 15 TIMER SET button
- 16 MEMORY button
- 17 STEREO/MONO button
- 18 CD REPEAT button
- 19 DIR MODE button
- 20 TAPE ◀▶ button
- 21 TUNER/BAND button
- 22 CD ▶ button

Setting the time

- 1 Turn on the system.**
- 2 Press TIMER SET on the remote.**
If you are setting the clock for the first time, go to step 5.
- 3 Press ◀◀/▶▶ on the remote repeatedly until "SET CLOCK" appears in the display.**
- 4 Press ENTER on the remote.**
The hour indication flashes.
- 5 Press ◀◀/▶▶ on the remote repeatedly to set the hour.**
- 6 Press ENTER on the remote.**
The minute indication flashes.
- 7 Press ◀◀/▶▶ on the remote repeatedly to set the minute.**
- 8 Press ENTER on the remote.**
The clock will begin operating.

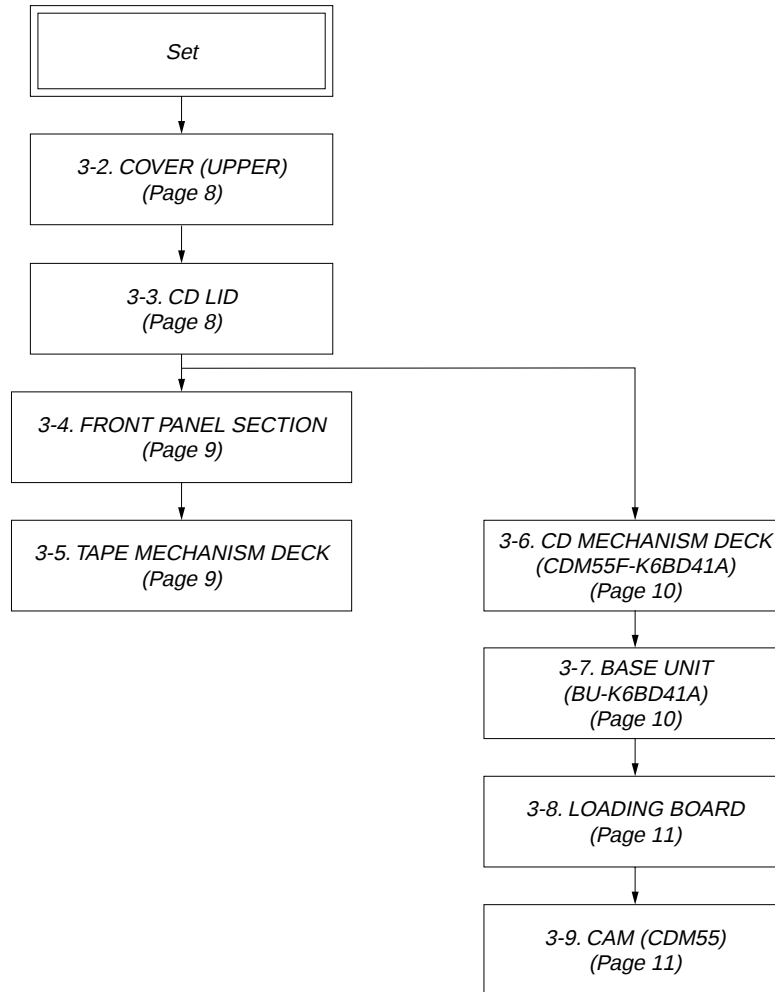
To reset the system clock

Start over from step 1.

SECTION 3 DISASSEMBLY

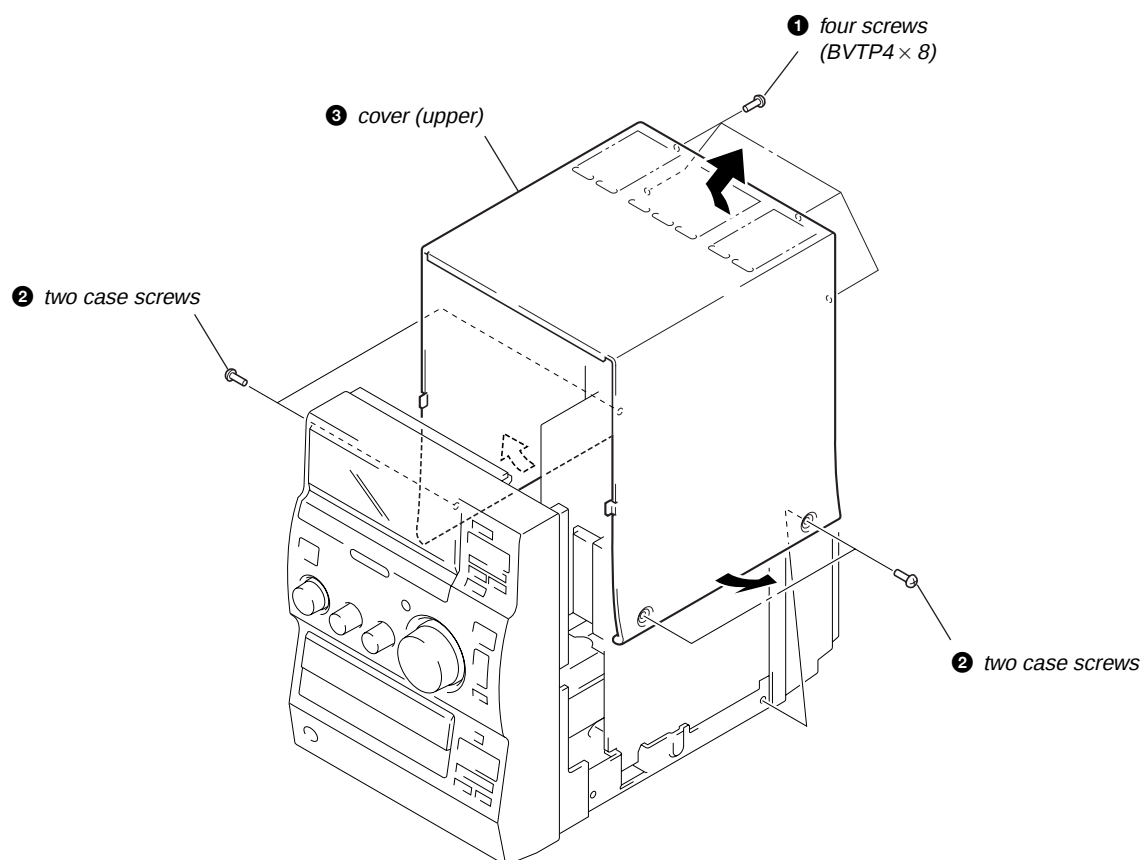
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

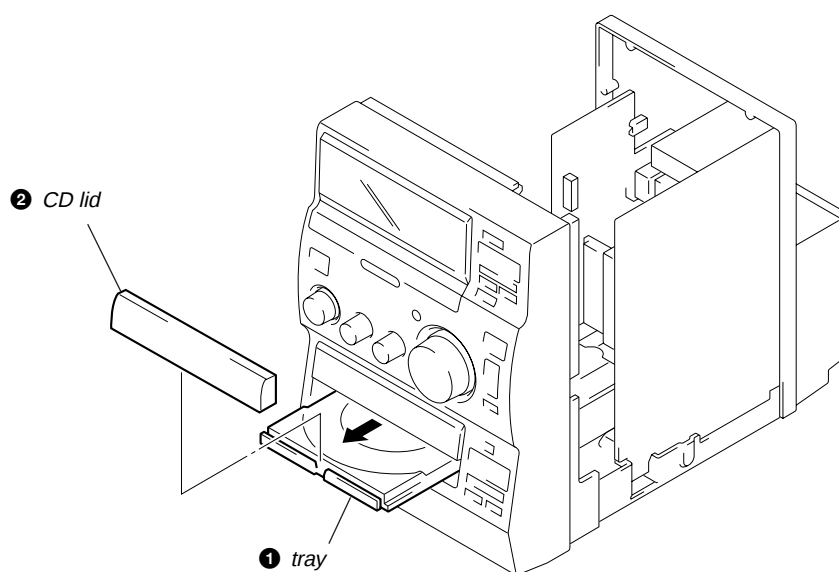


Note: Follow the disassembly procedure in the numerical order given.

3-2. COVER (UPPER)

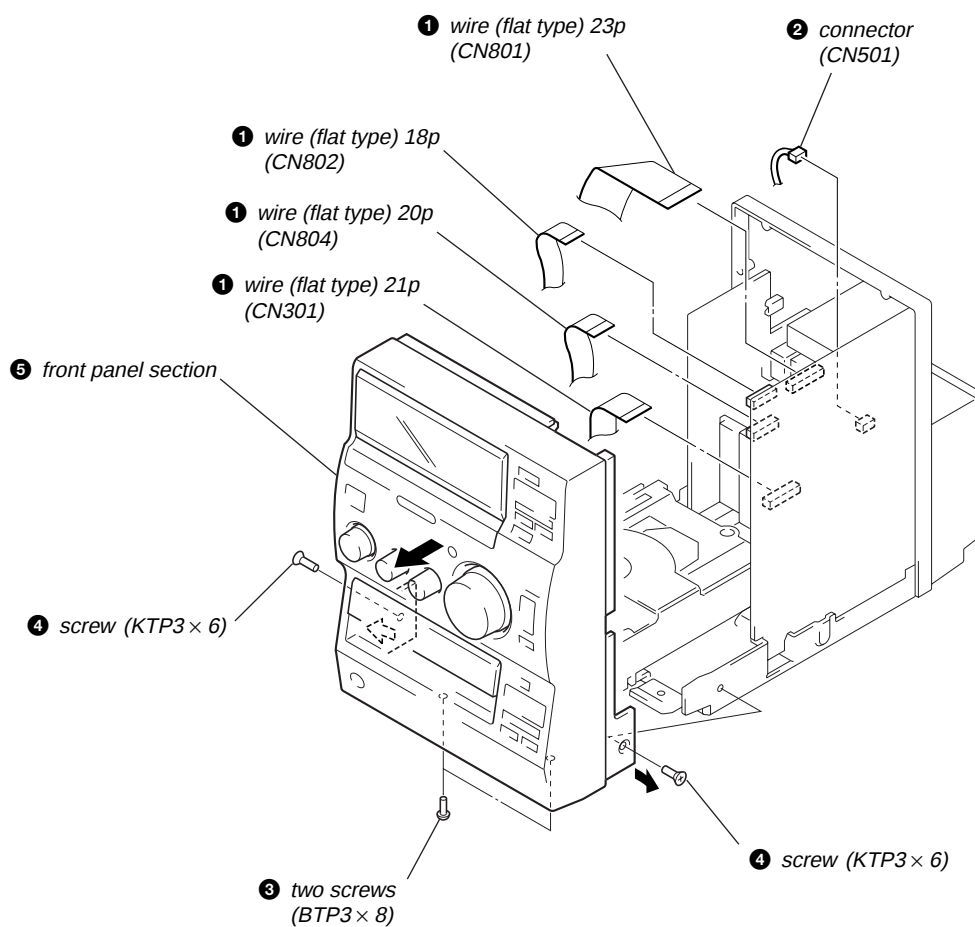


3-3. CD LID

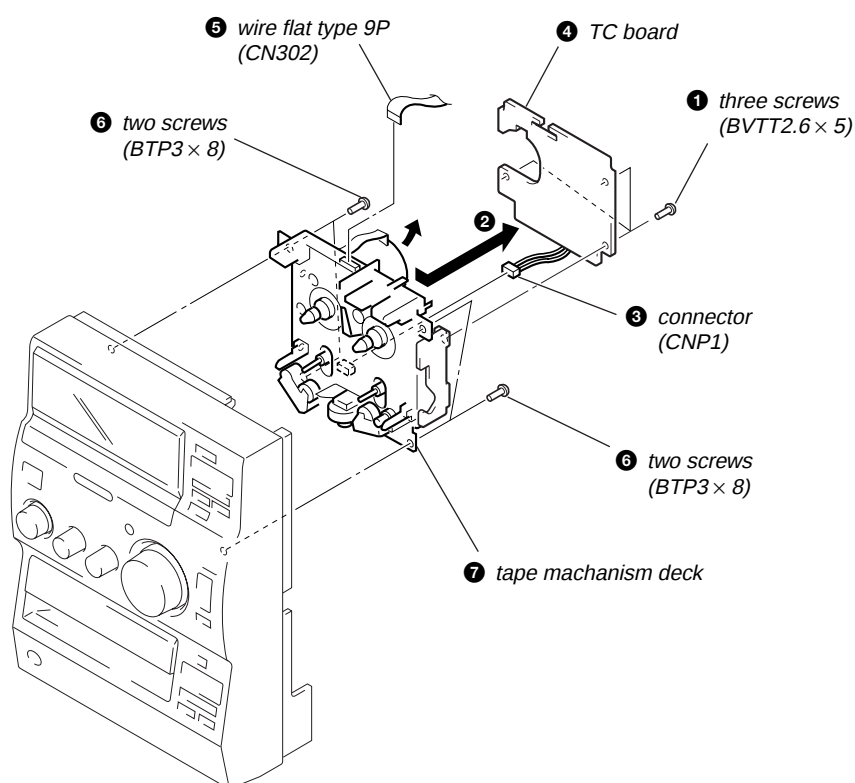


Note: Open the tray by supplying the power.

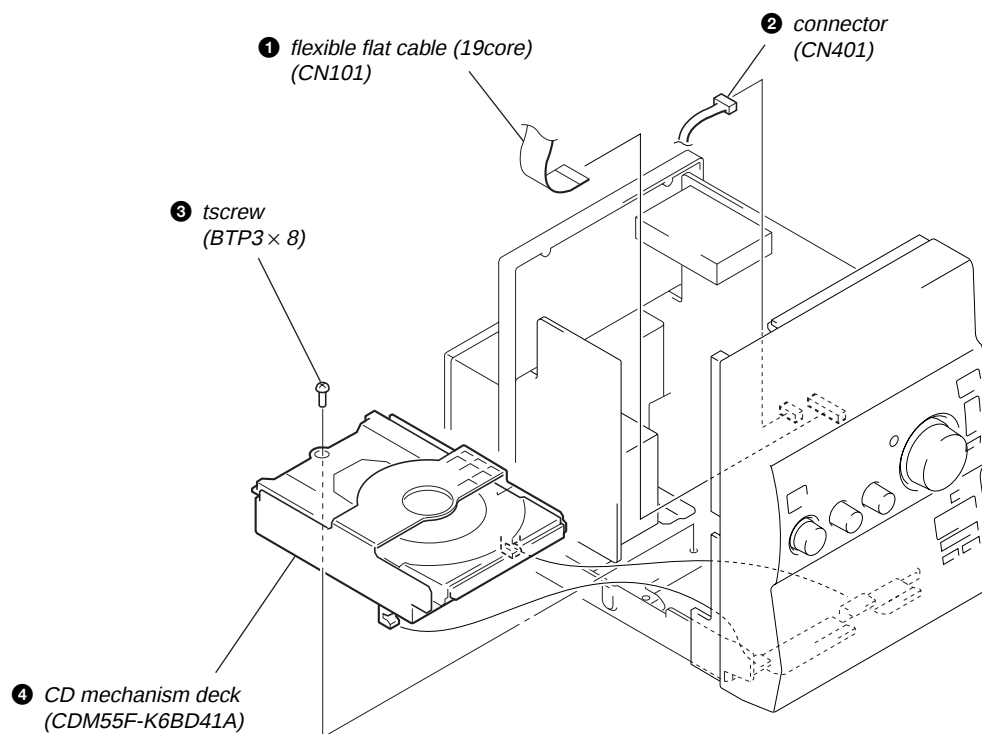
3-4. FRONT PANEL SECTION



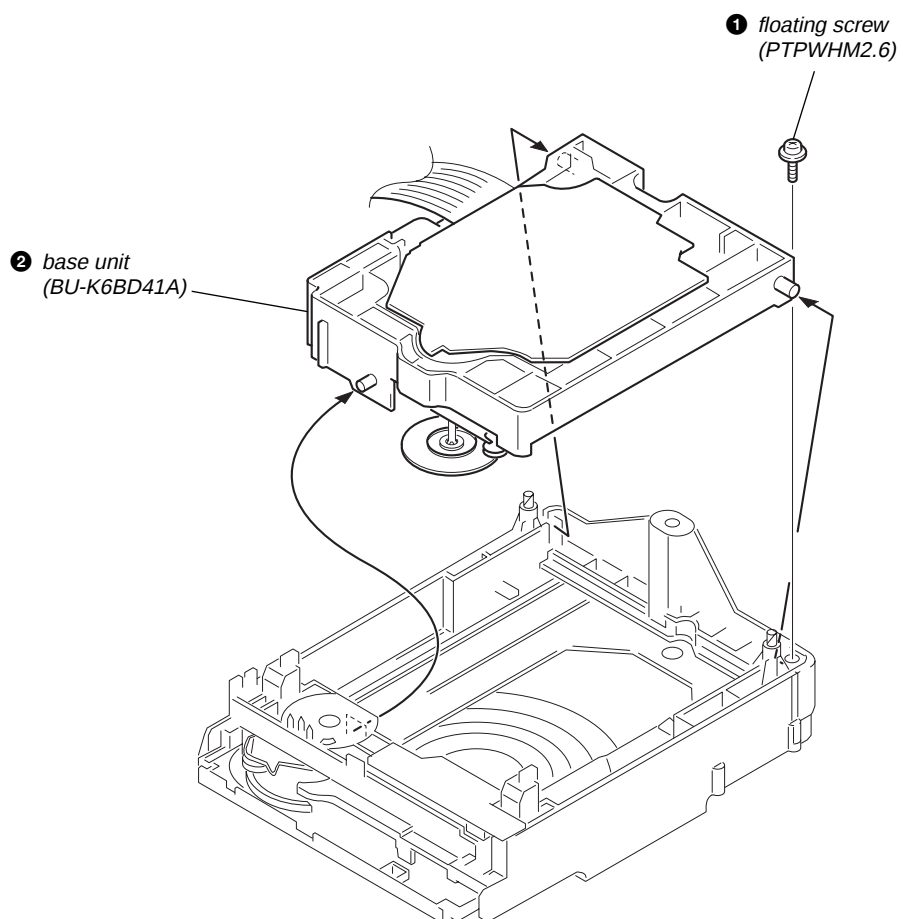
3-5. TAPE MECHANISM DECK



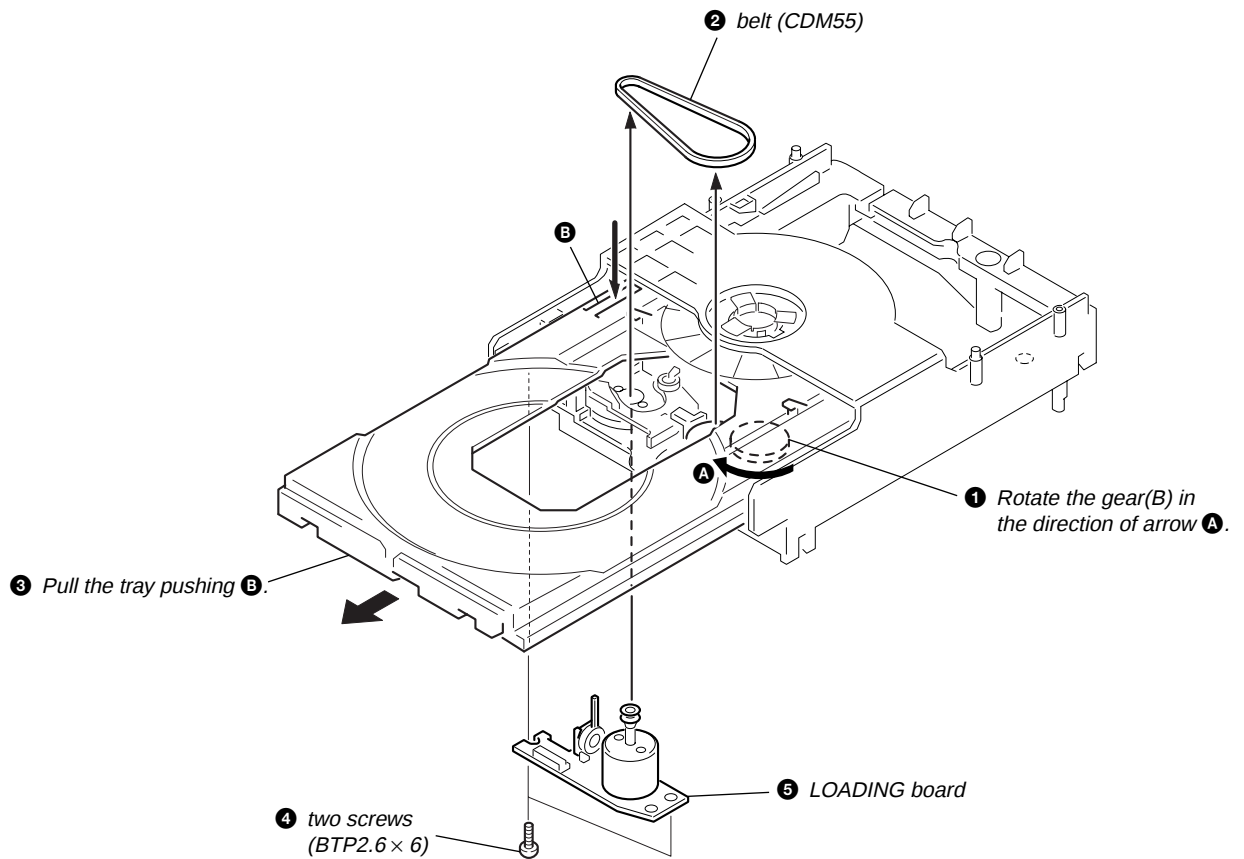
3-6. CD MECHANISM DECK (CDM55F-K6BD41A)



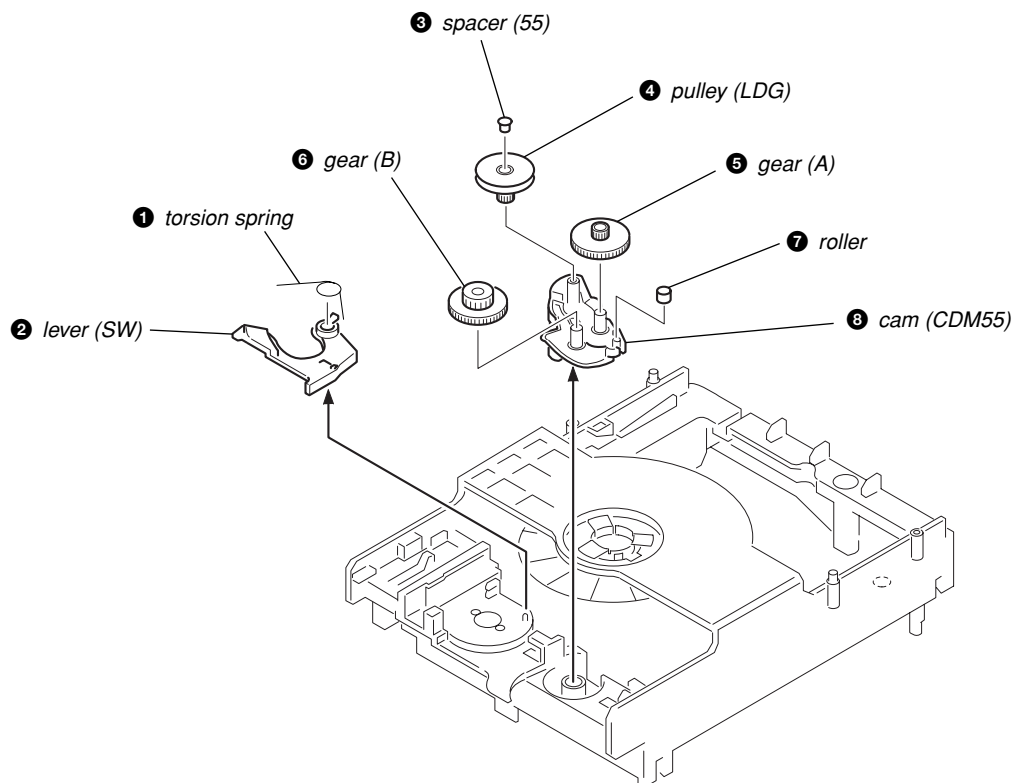
3-7. BASE UNIT (BU-K6BD41A)



3-8. LOADING BOARD



3-9. CAM (CDM55)



SECTION 4

TEST MODE

[Cold Reset]

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

Procedure:

- Turn ON the power.
- Press three buttons **[TAPES]** (TAPE), **[CD]** (CD), and **[BAND]** simultaneously.
- The set is reset.

[Liquid Crystal Display All Lit Check Mode]

Procedure:

- Set to standby state.
- Press three buttons of **[TAPES]** (TAPE), **[CD]** (CD), and **[TUNING MODE]** simultaneously.
- Liquid crystal display are all turned on.
- To exit from this mode, press the **[I/⏻]** button to turn the power OFF.

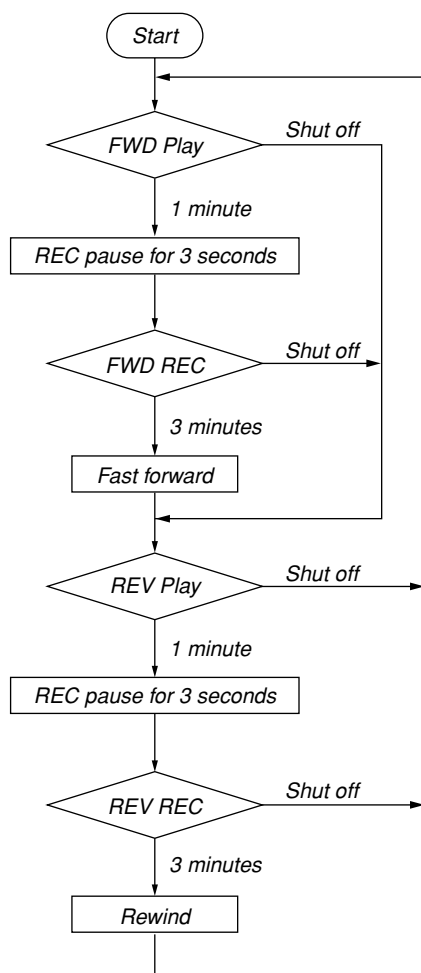
[Tape Deck Aging Mode]

This mode can be used for operation check of tape deck section.

Procedure:

- Set a tape in the tape deck.
- Set to standby state.
- Press three buttons of **[TAPES]** (TAPE), **[CD]** (CD), and **[TUNING +]** simultaneously.
- The aging is executed in bellow sequence.
- To exit from the aging mode, press the **[I/⏻]** button to turn the power OFF.

Aging mode sequence:



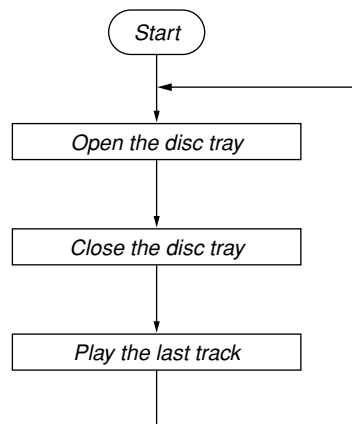
[CD Aging Mode]

This mode can be used for operation check of CD section.

Procedure:

- Load a CD disc.
- Set to standby state.
- Press three buttons of **[TAPES]** (TAPE), **[CD]** (CD), and **[TUNING -]** simultaneously.
- The aging is executed in bellow sequence.
- To exit from the aging mode, press the **[I/⏻]** button to turn the power OFF.

Aging mode sequence:



SECTION 5
ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB=0.775 V

Note: Confirm each contents of this section first of all. If the results are not satisfied, do the adjustment.

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

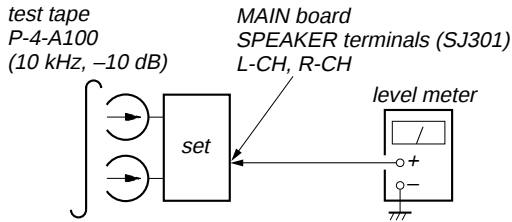
• Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

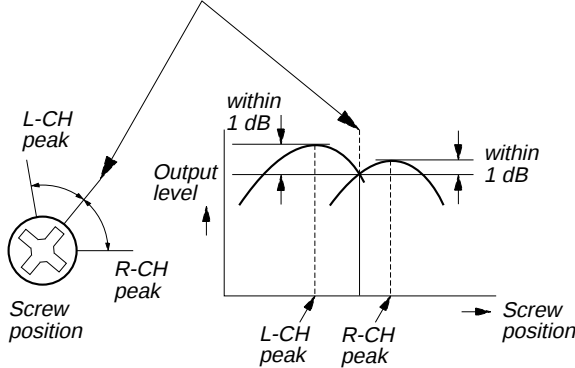
Record/Playback Head Azimuth Adjustment

Procedure:

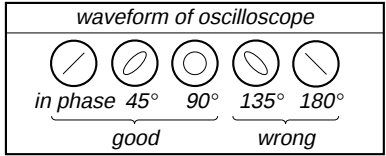
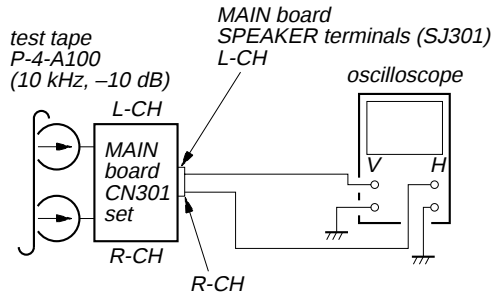
1. Mode: Playback



2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.

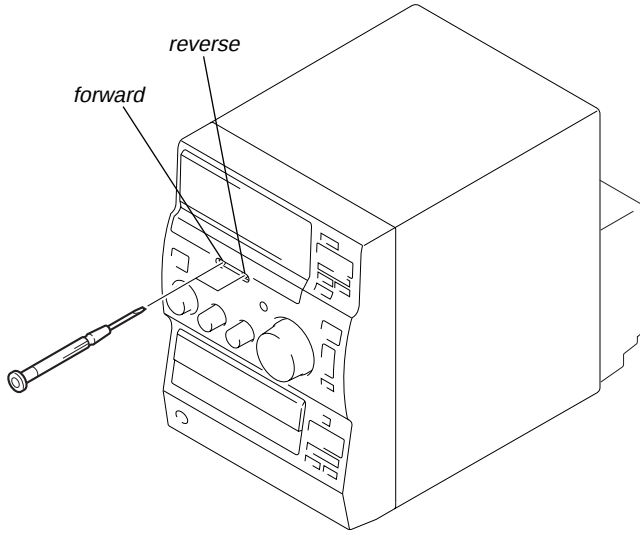


3. Mode: Playback



4. Repeat step 1 to 3 in playback (REV) mode.
5. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location:

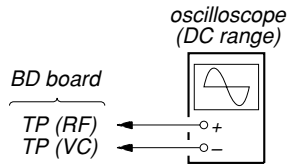


CD SECTION

Note:

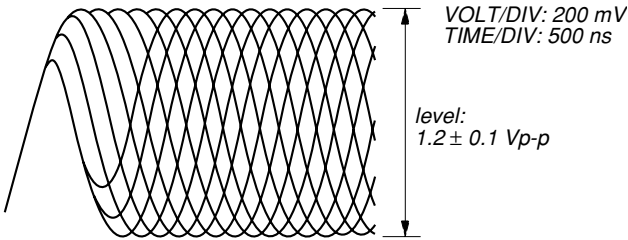
1. CD Block is basically constructed to operate without adjustment.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10 MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
5. Check the focus bias check when optical block is replaced.

Focus Bias Check



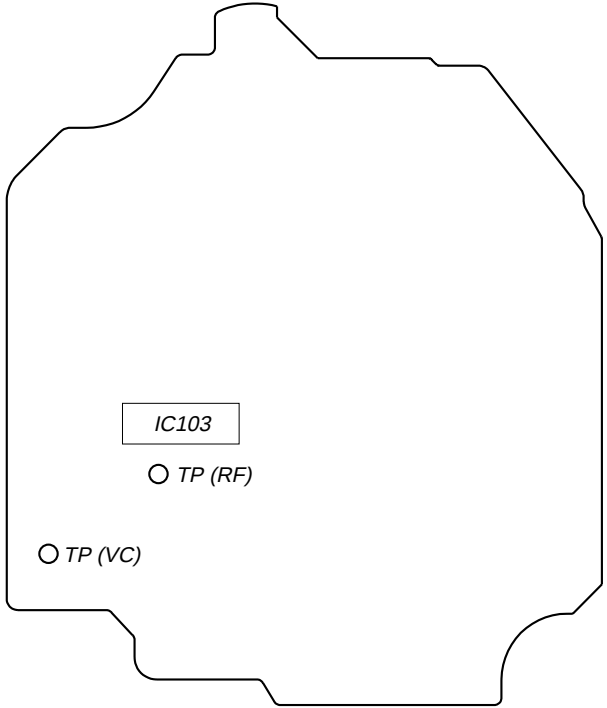
Procedure :

1. Connect oscilloscope to TP (RF) and TP (VC) on the CD board.
2. Press the button to turn the power on, and press the (CD) button to open the CD disc tray.
3. Put disc (YEDS-18) in and press the (CD) button to playback.
4. Confirm that 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.



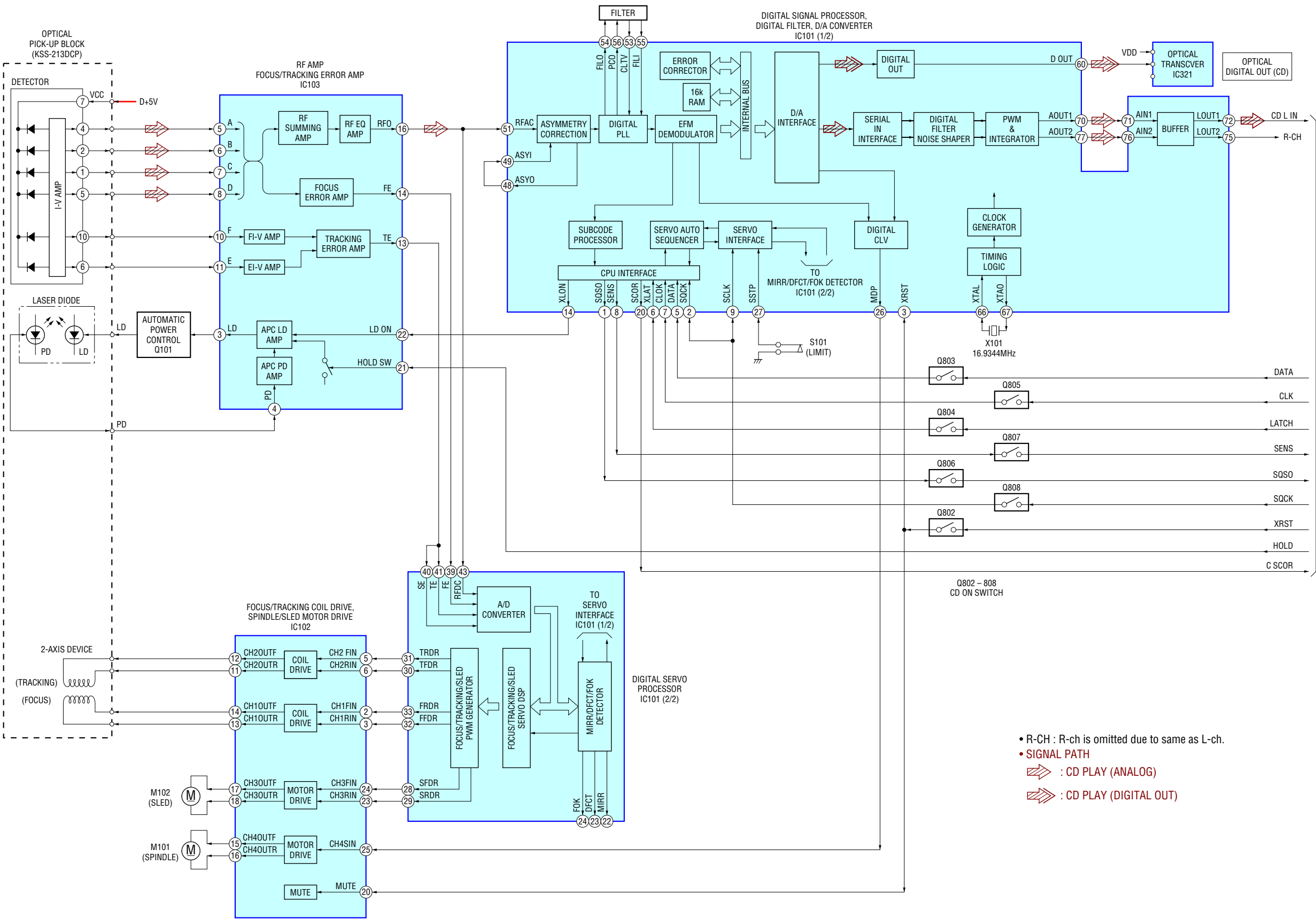
Checking Location:

– CD BOARD (Conductor Side) –



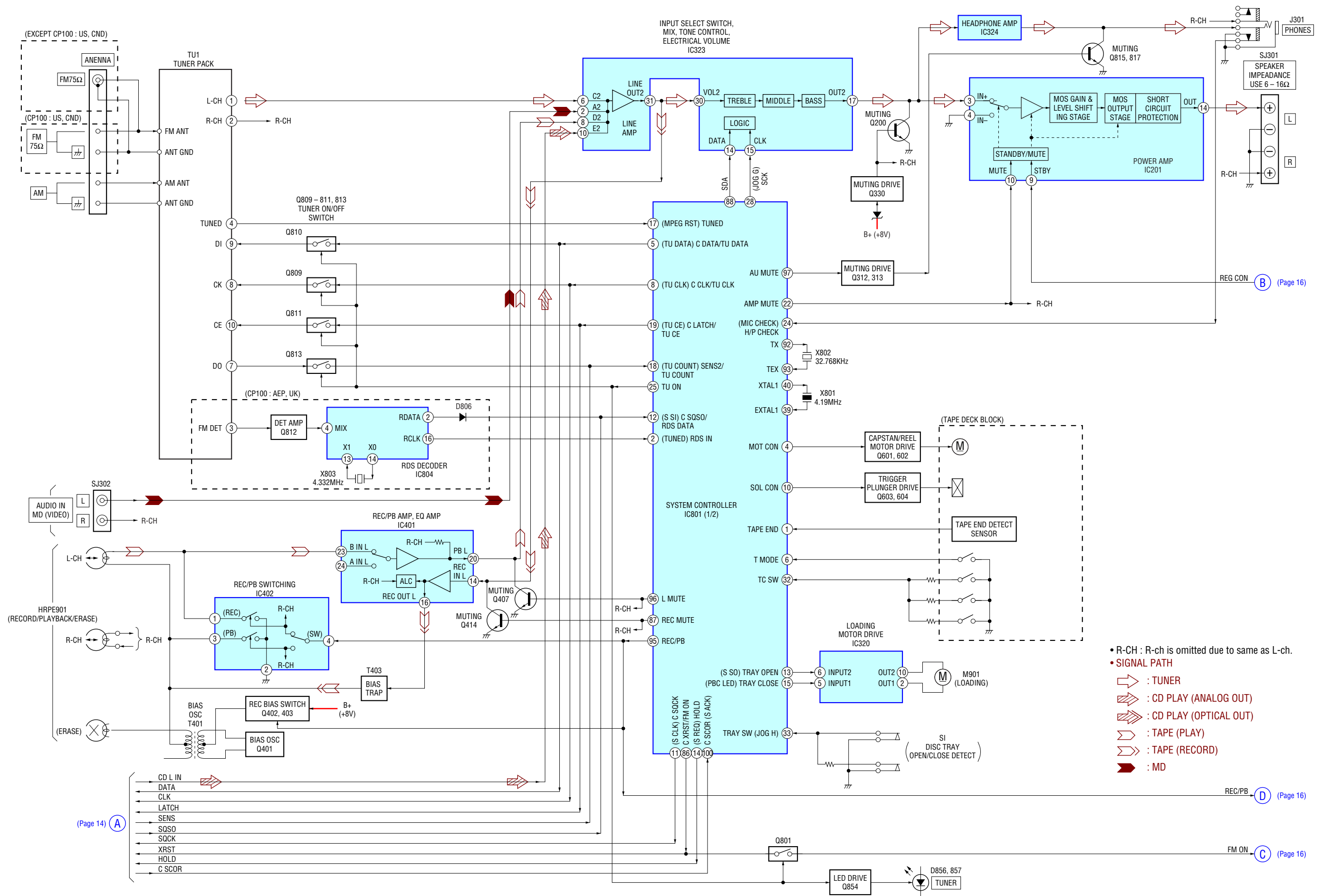
SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM – CD SERVO Section –

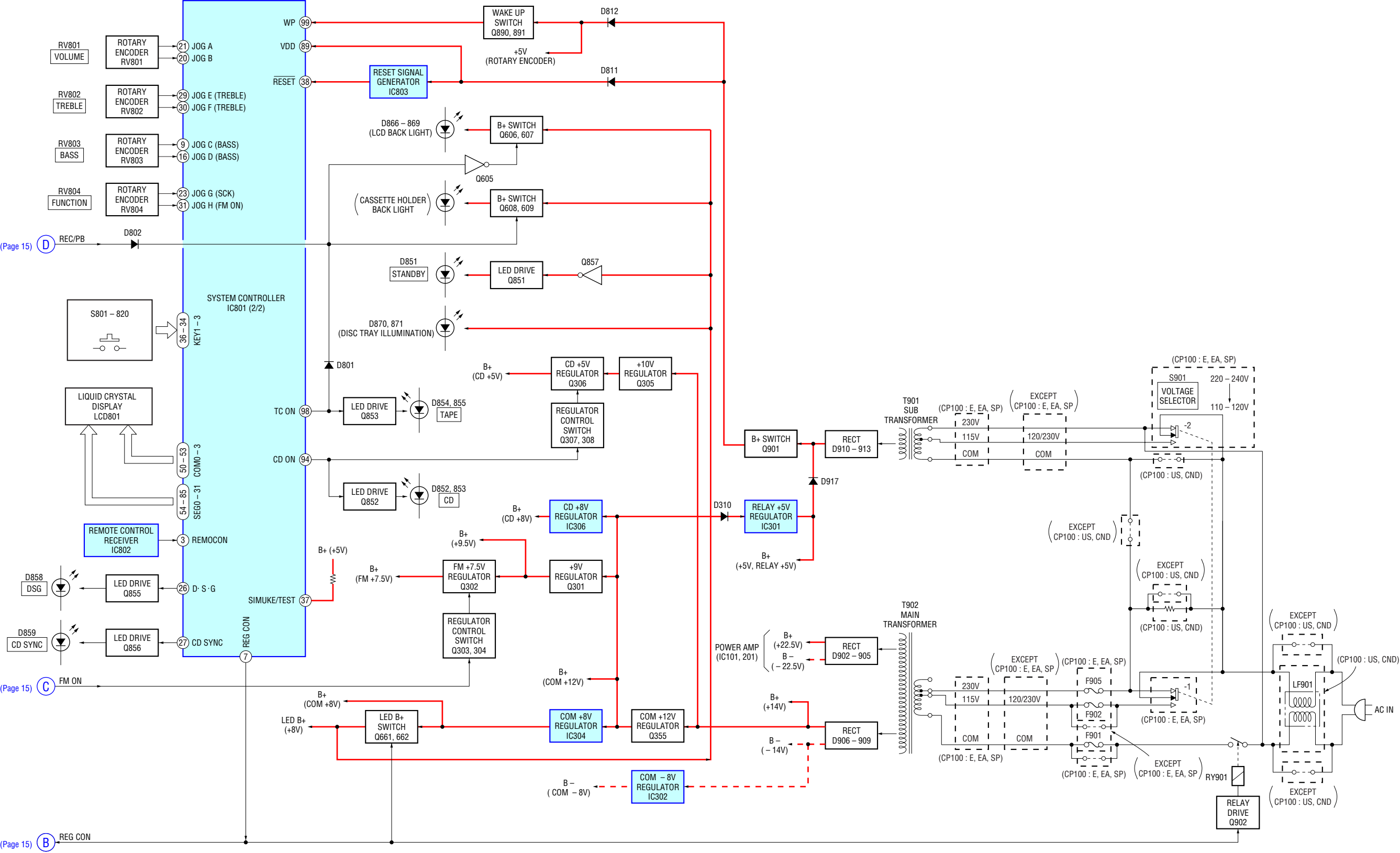


(Page 15)

6-2. BLOCK DIAGRAM – MAIN Section –

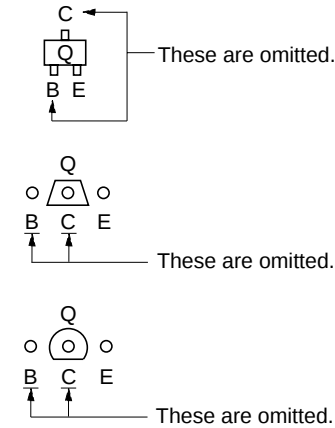


6-3. BLOCK DIAGRAM – DISPLAY/POWER SUPPLY Section –



6-4. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

- Note on Printed Wiring Boards:**
- — : parts extracted from the component side.
 - ○ : parts extracted from the conductor side.
 - : indicates side identified with part number.
 - : Pattern from the side which enables seeing.
 - Indication of transistor.

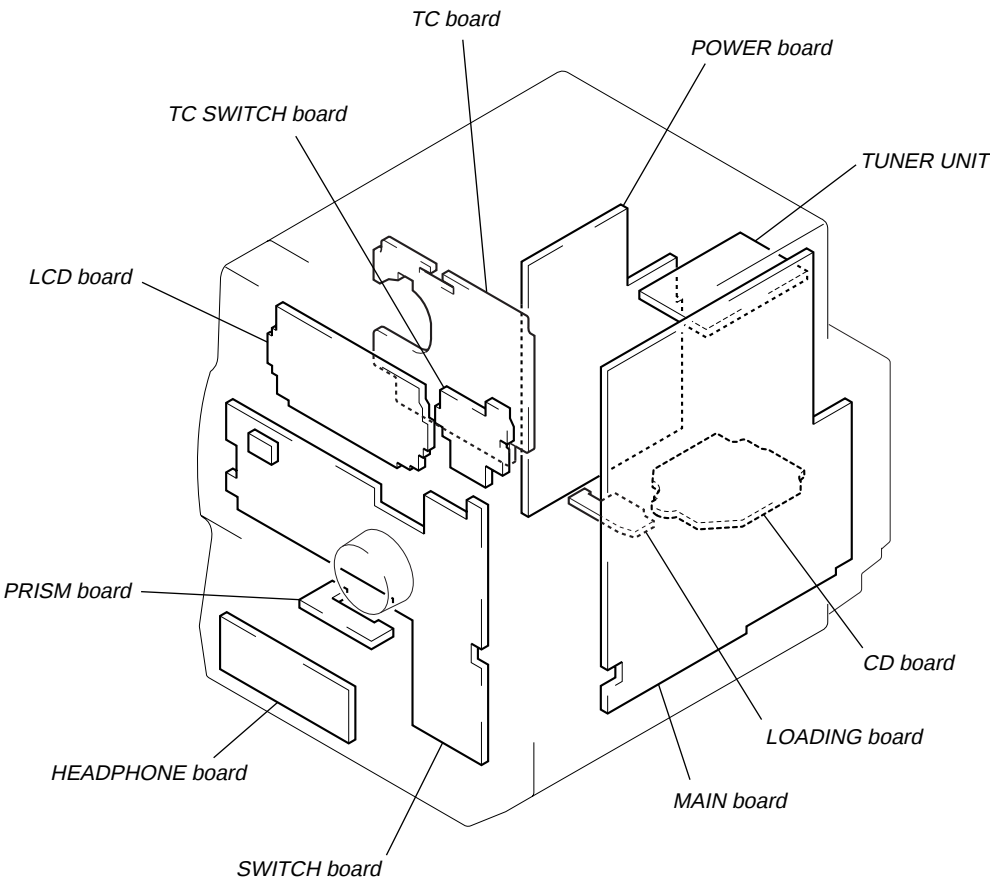


- Note on Schematic Diagram:**
- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
 - Δ : internal component.
 - : panel designation.

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

- : B+ Line.
- - - : B- Line.
- : adjustment for repair.
- 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.
 - ⇒ : TUNER
 - ⇒ : TAPE PLAY (DECK A)
 - ⇒ : TAPE PLAY (DECK B)
 - ⇒ : TAPE REC
 - ⇒ : CD PLAY (ANALOG)
 - ⇒ : CD PLAY (DIGITAL)
- Abbreviation
 - AR : Argentina model
 - AUS : Australian model
 - BR : Brazilian model
 - CND : Canadian model
 - EA : Saudi Arabia model
 - KR : Korean model
 - MX : Mexican model
 - SP : Singapore model

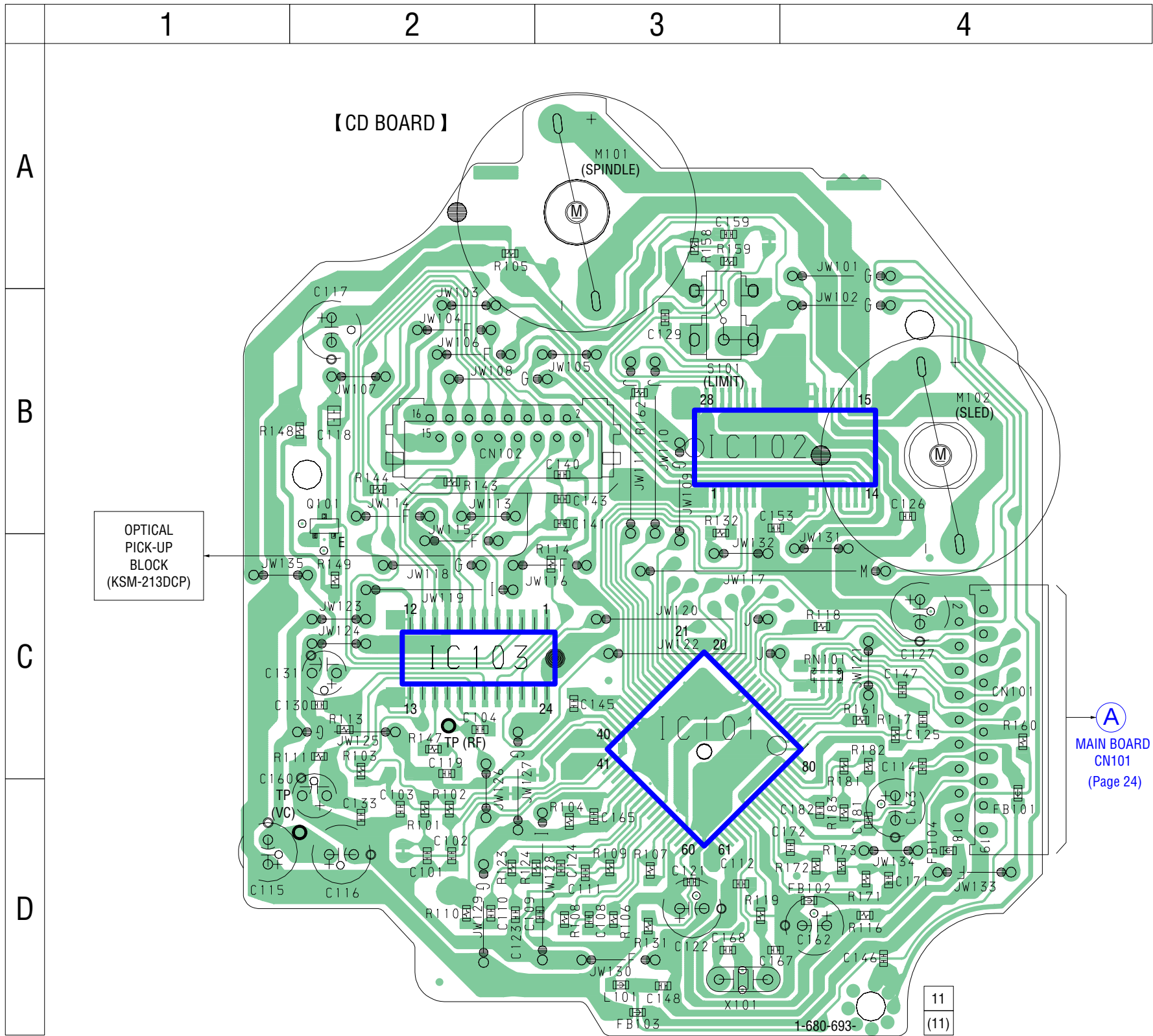
• Circuit Boards Location



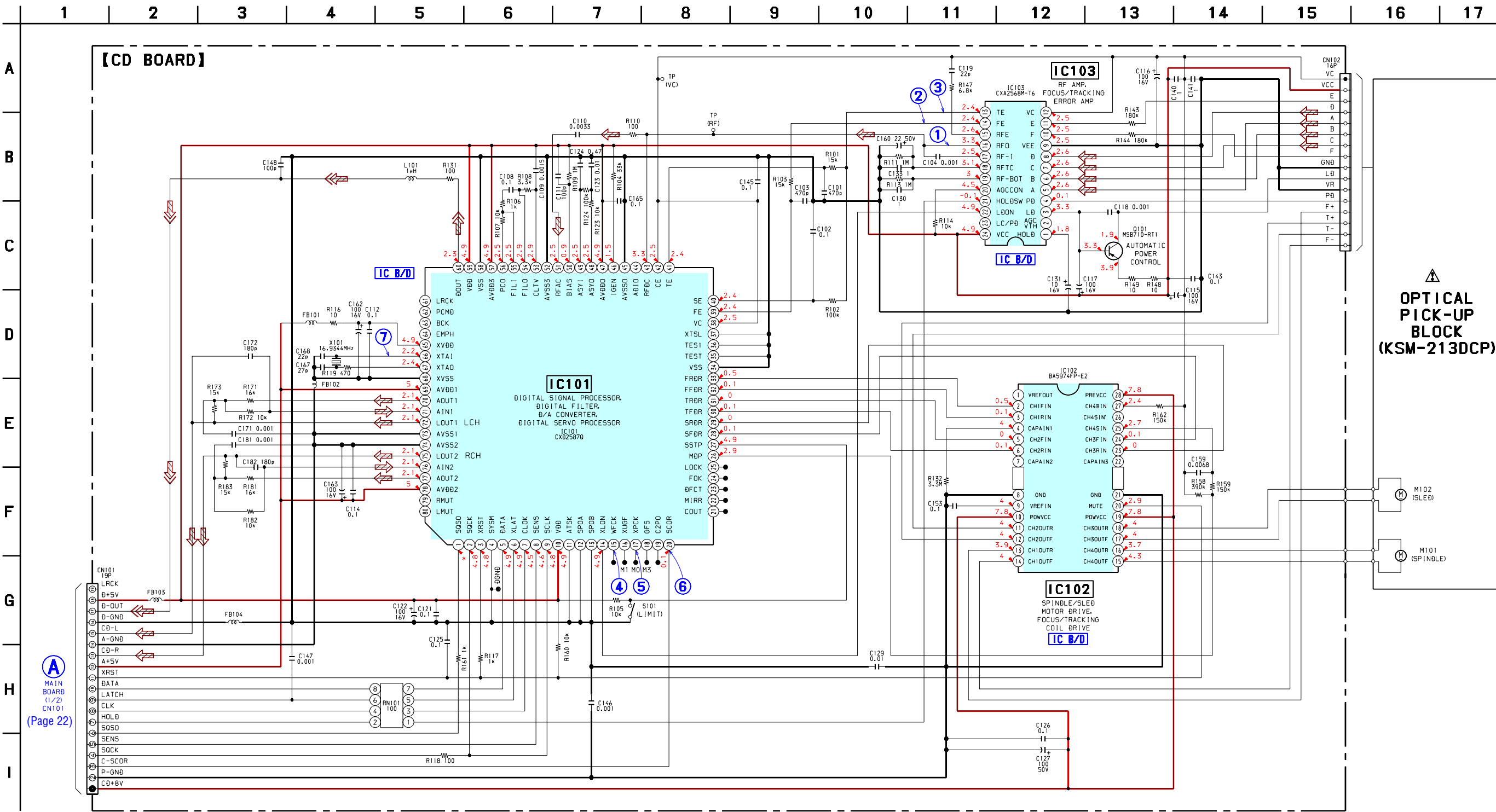
6-5. PRINTED WIRING BOARD – CD Board – • See page 17 for Circuit Boards Location.

• Semiconductor Location

Ref. No.	Location
IC101	C-3
IC102	B-3
IC103	C-2
Q101	B-2



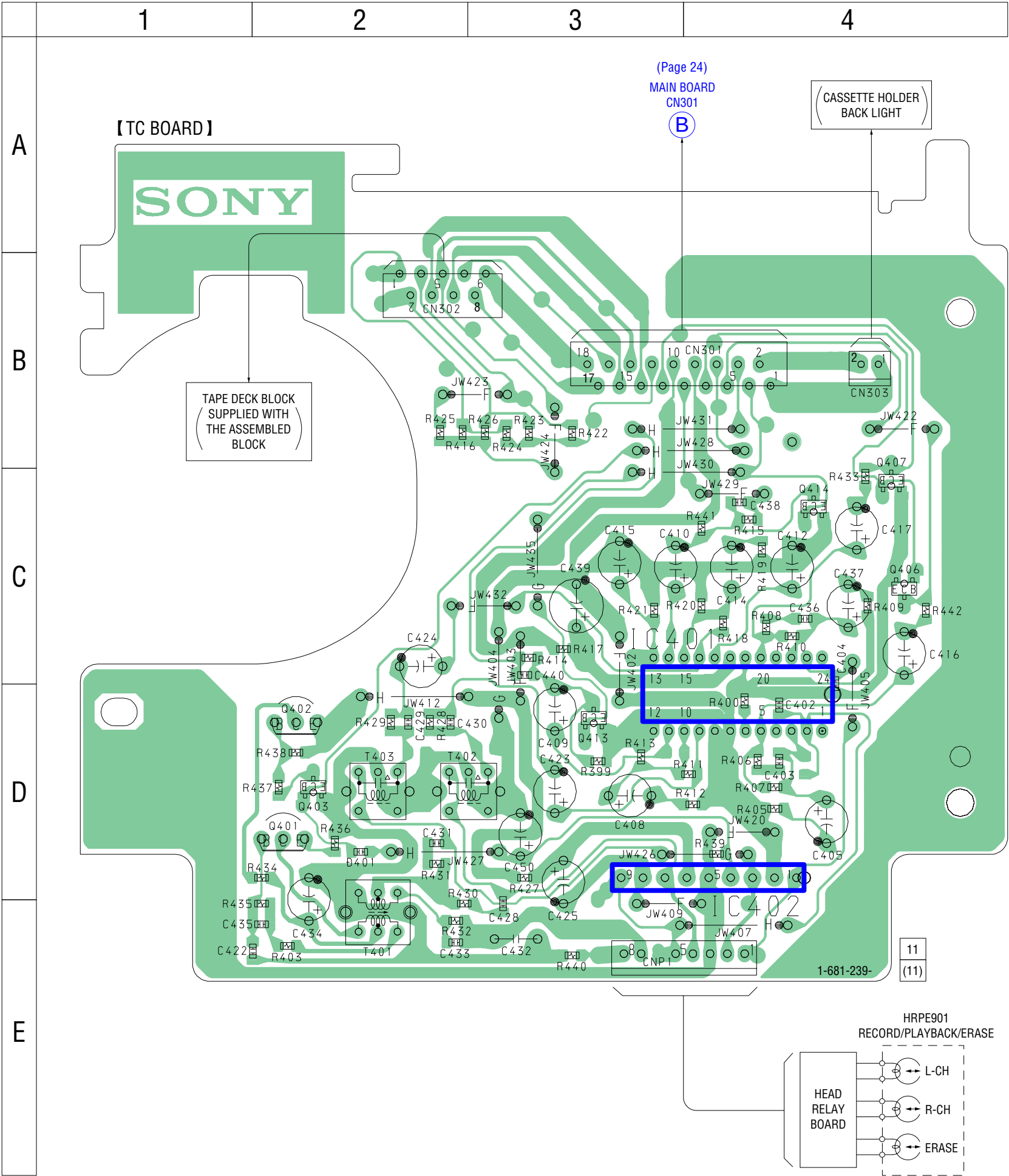
6-6. SCHEMATIC DIAGRAM – CD Board – • See page 25 for Waveforms. • See page 32 for IC Block Diagrams.



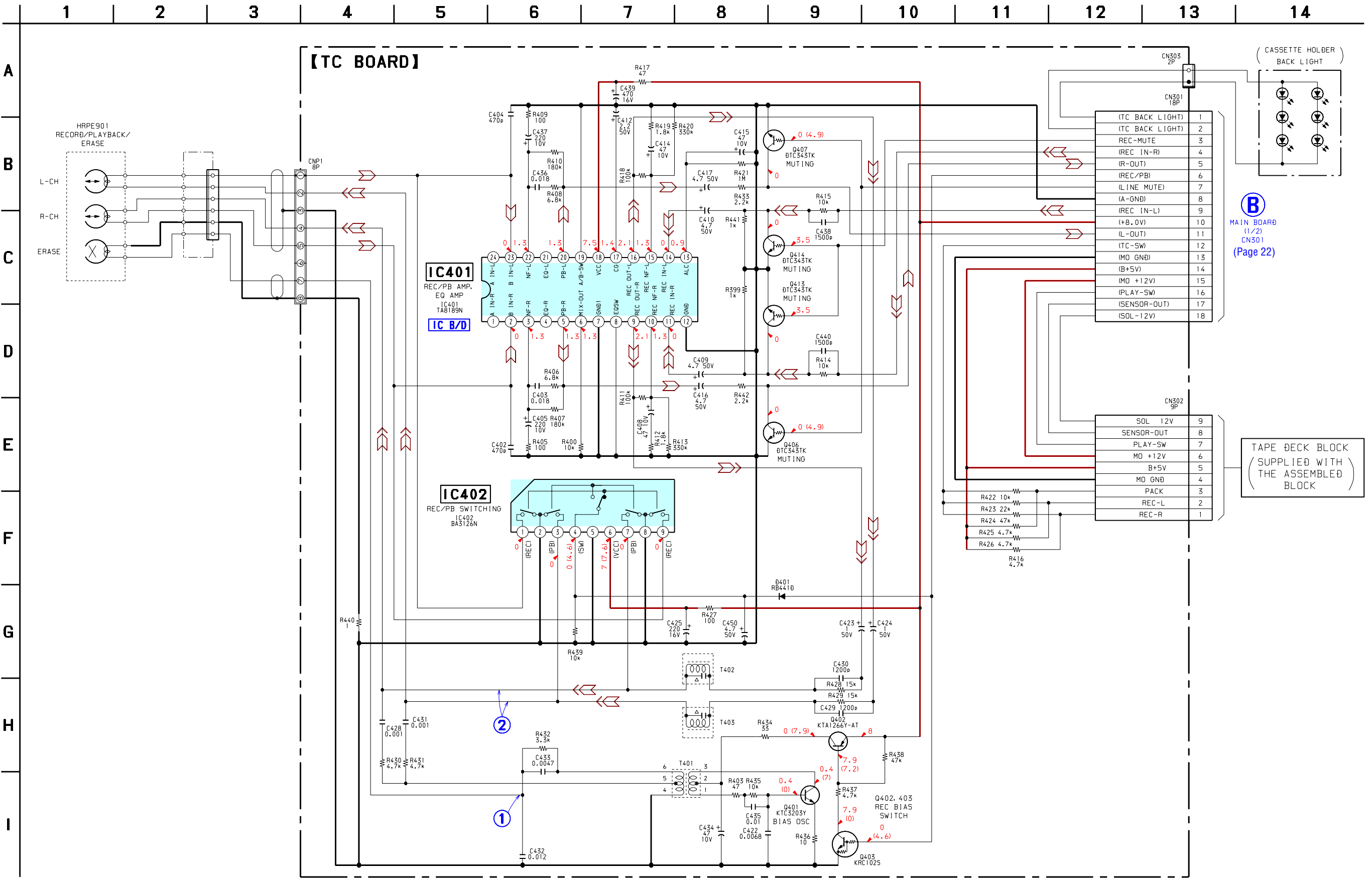
6-7. PRINTED WIRING BOARD – TC Board – • See page 17 for Circuit Boards Location.

• Semiconductor Location

Ref. No.	Location
IC401	D-4
IC402	D-4
Q401	D-2
Q402	D-2
Q403	D-2
Q406	C-4
Q407	C-4
Q413	D-3
Q414	C-4

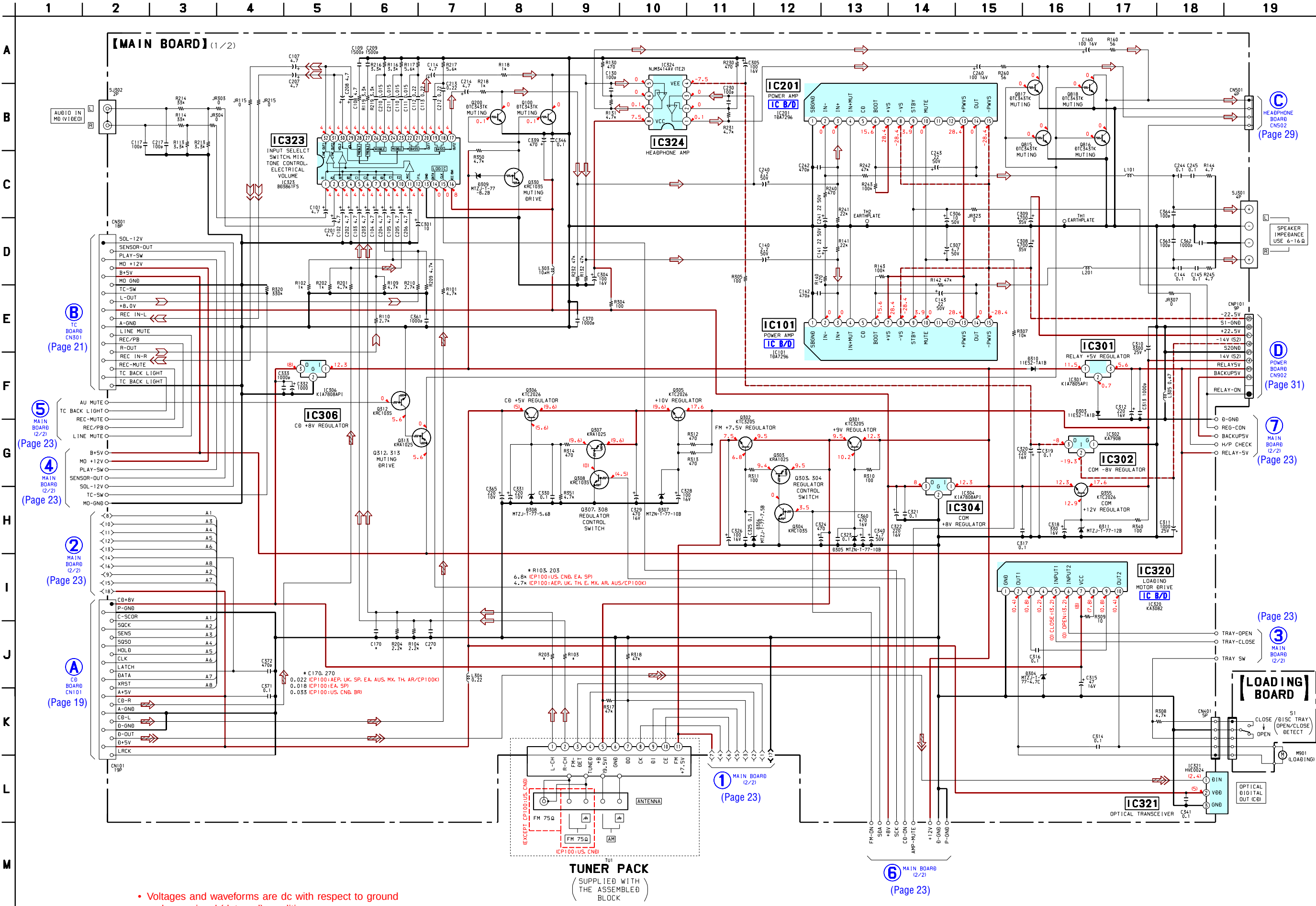


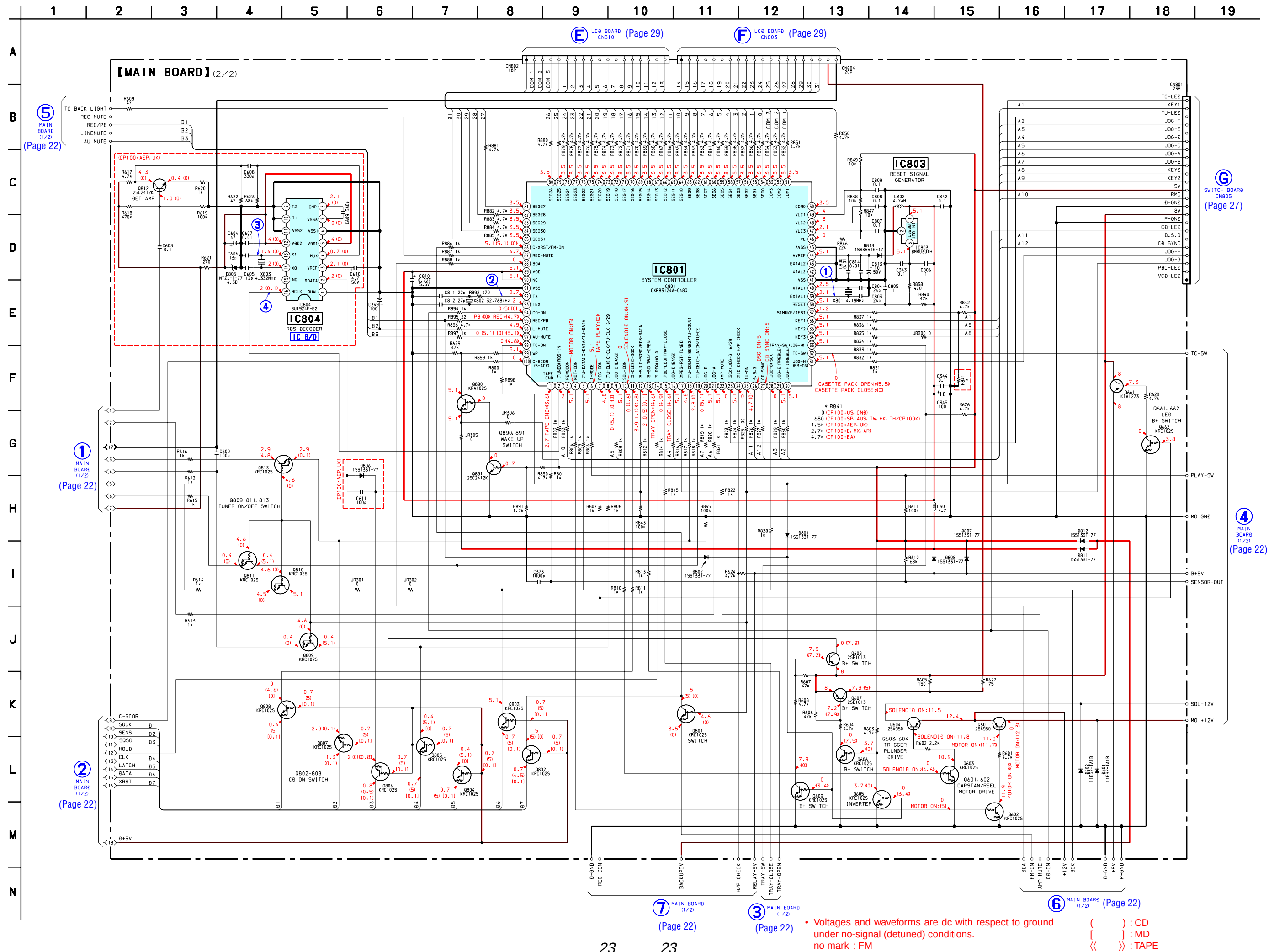
6-8. SCHEMATIC DIAGRAM – TC Board – • See page 25 for Waveforms. • See page 32 for IC Block Diagram.



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

6-9. SCHEMATIC DIAGRAM – MAIN (1/2)/LOADING Board – • See page 32 for IC Block Diagrams.



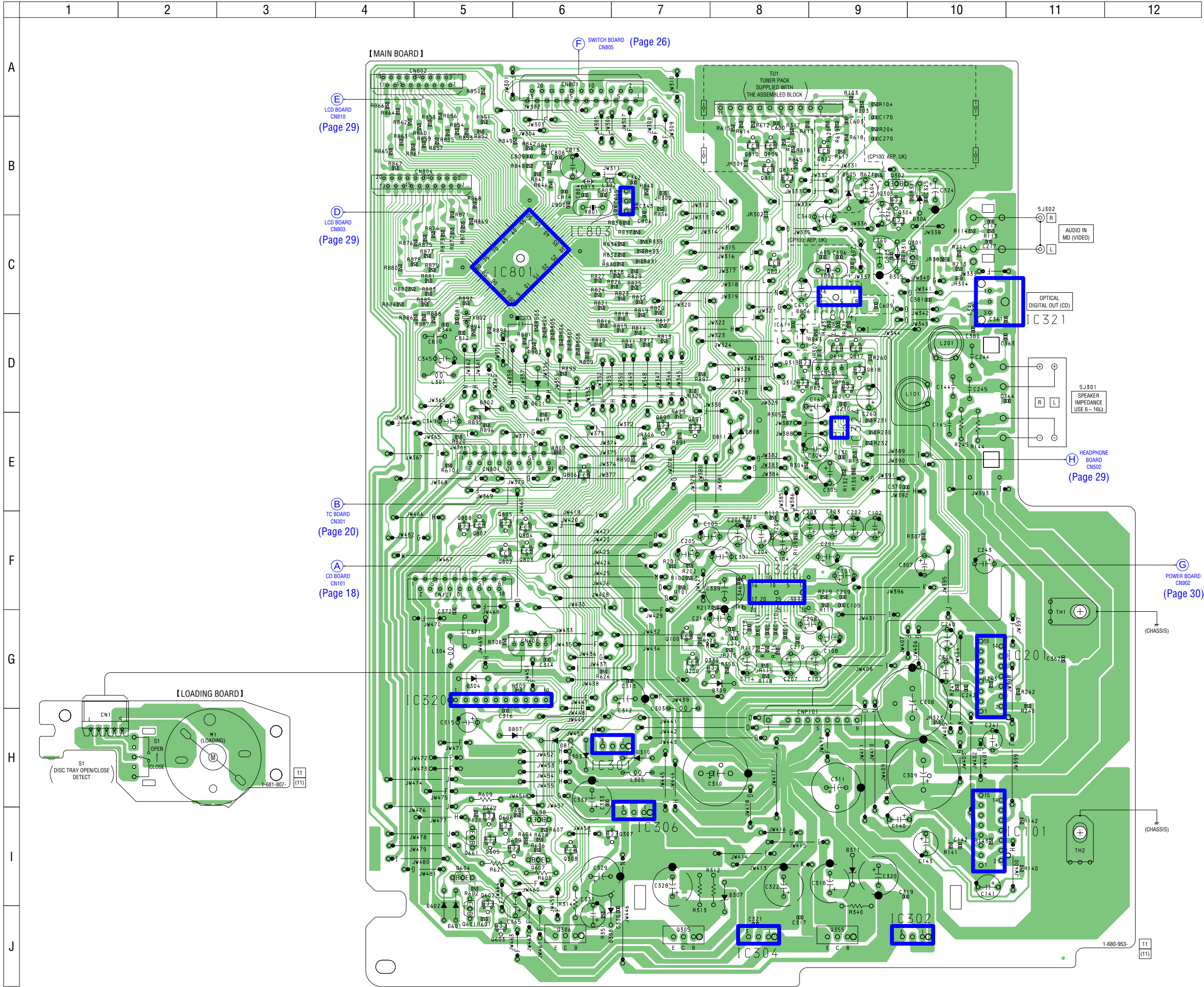


HCD-CP100/CP100K

6-11. PRINTED WIRING BOARD – MAIN Board – • See page 17 for Circuit Boards Location.

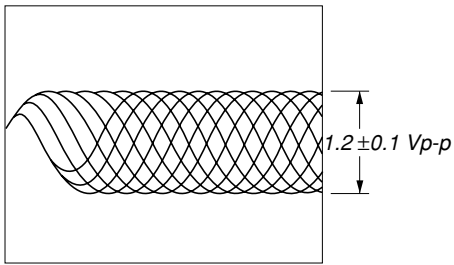
• Semiconductor Location

Ref. No.	Location
D303	H-6
D304	G-5
D305	C-9
D306	B-10
D307	I-8
D308	J-6
D309	G-8
D310	H-7
D311	I-9
D601	J-5
D602	I-5
D801	D-6
D802	D-5
D805	B-9
D806	D-8
D807	H-6
D808	E-8
D811	E-8
D812	H-6
D813	B-6
IC101	I-10
IC201	G-10
IC301	H-6
IC302	J-10
IC304	J-8
IC306	I-7
IC320	G-5
IC321	D-11
IC323	F-8
IC324	E-9
IC801	C-5
IC803	B-7
IC804	C-9
Q100	G-7
Q200	G-7
Q301	C-10
Q302	B-9
Q303	B-9
Q304	C-9
Q305	J-7
Q306	J-6
Q307	I-7
Q308	I-6
Q312	D-8
Q313	D-8
Q330	G-8
Q355	J-9
Q601	J-5
Q602	I-5
Q603	J-5
Q604	I-5
Q605	I-5
Q606	I-5
Q607	I-6
Q608	I-6
Q609	I-6
Q661	I-5
Q662	I-5
Q801	C-8
Q802	F-5
Q803	F-6
Q804	F-6
Q805	F-5
Q806	E-6
Q807	F-5
Q808	F-5
Q809	B-8
Q810	B-8
Q811	B-8
Q812	B-9
Q813	B-8
Q815	D-9
Q816	D-9
Q817	D-9
Q818	D-9
Q890	E-7
Q891	E-7

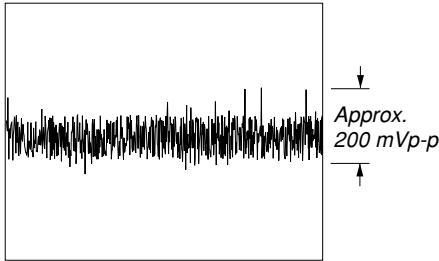


• Waveforms
– CD Board –

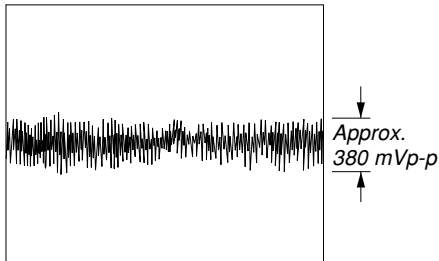
① IC103 ⑩ (RFO) (CD Play Mode)



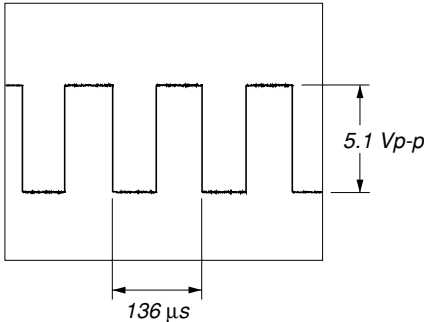
② IC103 ⑭ (FE) (CD Play Mode)



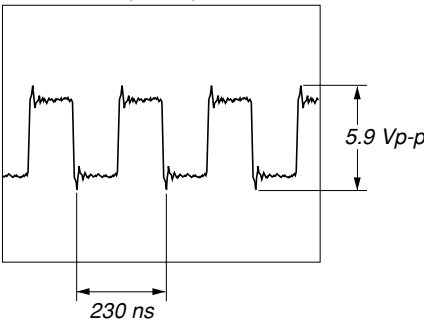
③ IC103 ⑬ (TE) (CD Play Mode)



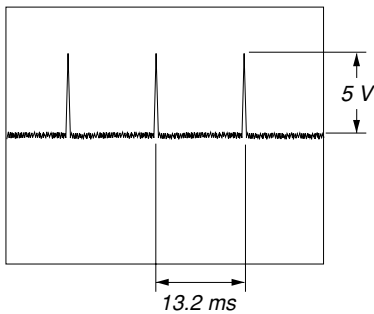
④ IC101 ⑮ (WFCK)



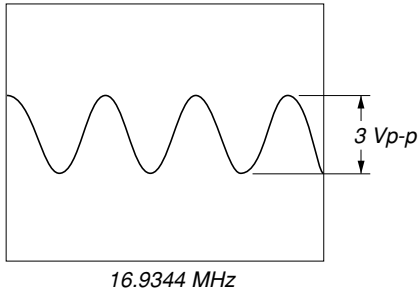
⑤ IC101 ⑰ (XPCK)



⑥ IC101 ⑳ (SCOR) (CD Play Mode)

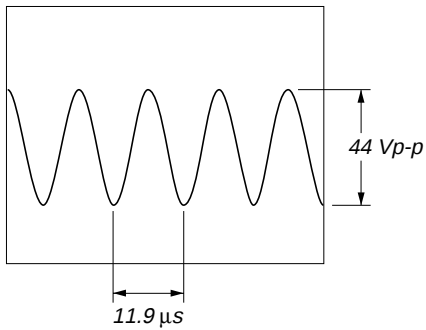


⑦ IC101 ⑥⑥ (XTAI)

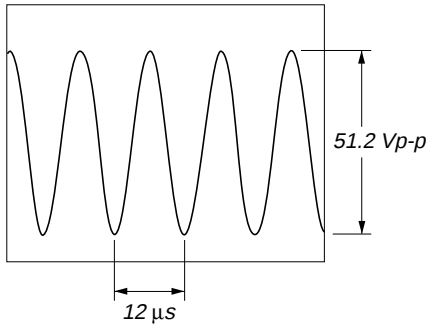


– TC Board –

① ERASE Head (REC Mode)

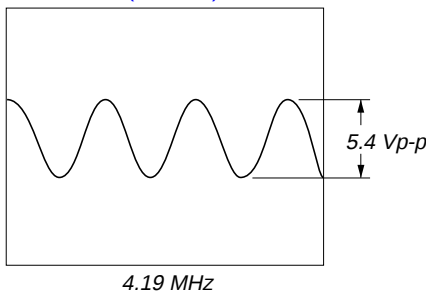


② REC/PB (REC Mode)

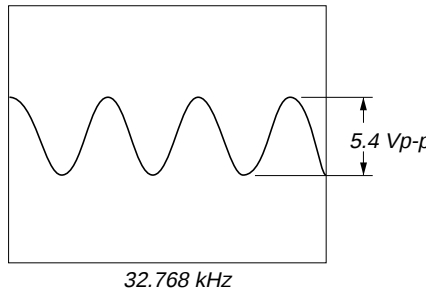


– MAIN Board –

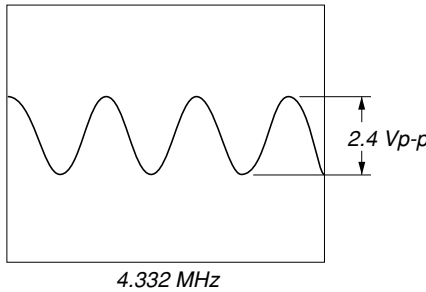
① IC801 ③⑨ (EXTAL1)



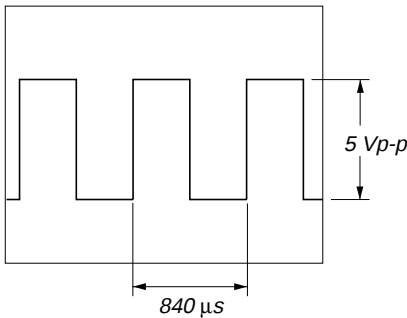
② IC801 ③② (TX)



③ IC804 ⑬ (XI) (FM Mode) (CP100: AEP, UK only)

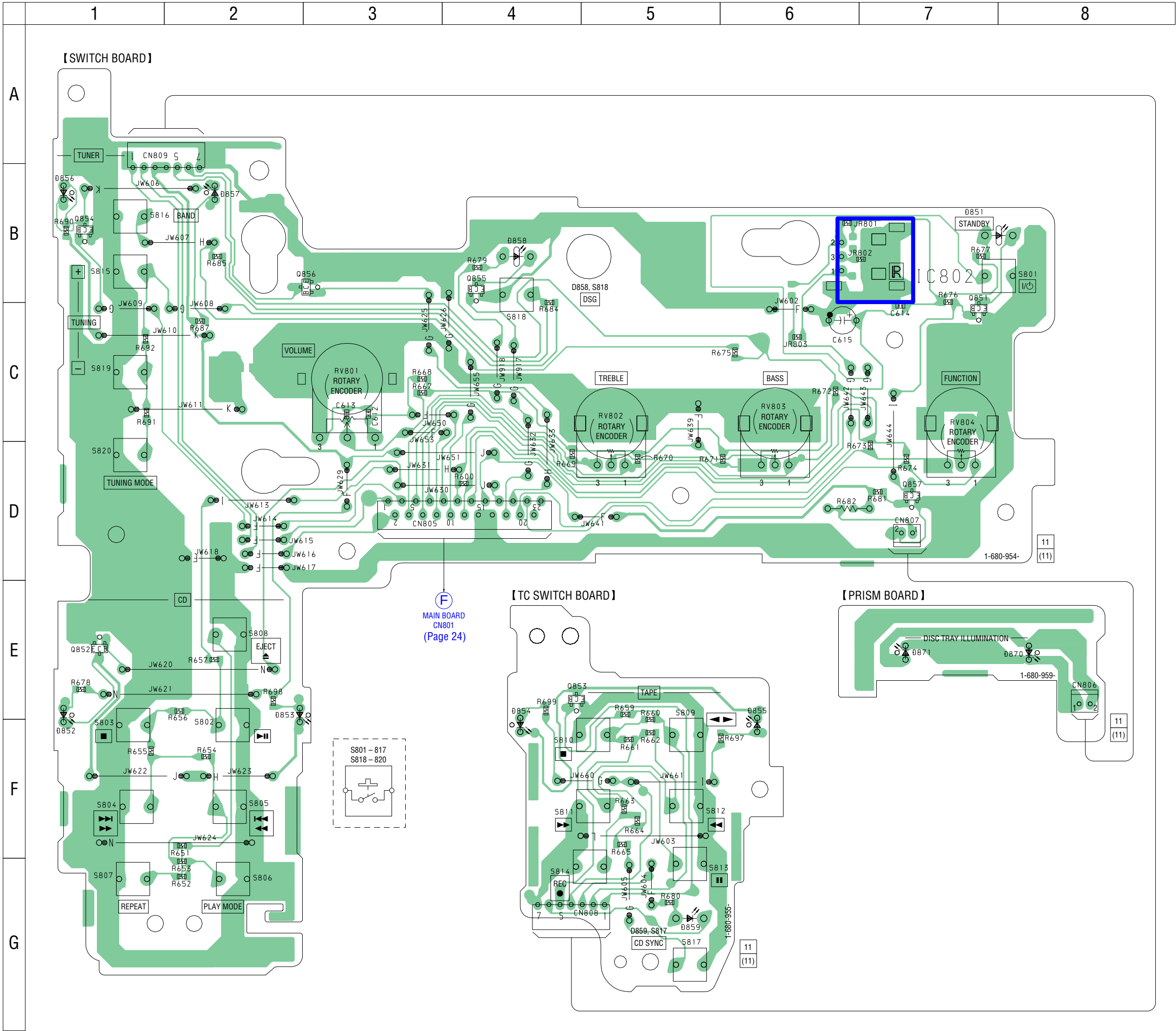


④ IC804 ⑮ (RCLK) (FM Mode) (CP100: AEP, UK only)

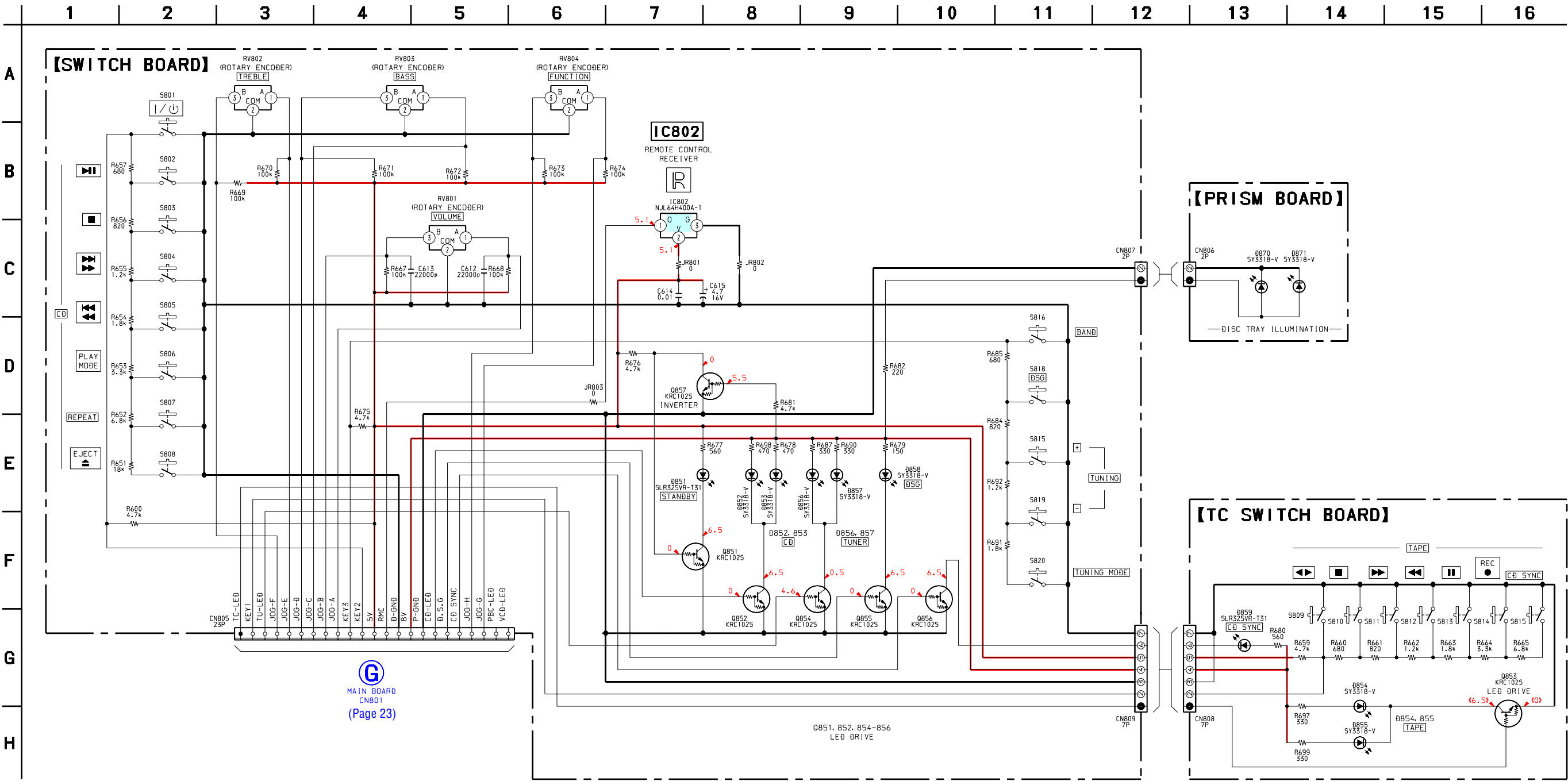


• Semiconductor Location

Ref. No.	Location
D851	B-7
D852	F-1
D853	E-2
D854	F-4
D855	F-6
D856	B-1
D857	B-2
D858	B-4
D859	G-5
IC802	B-7
Q851	C-7
Q852	E-1
Q853	E-4
Q854	B-1
Q855	B-4
Q856	B-3
Q857	D-7



6-13. SCHEMATIC DIAGRAM – SWITCH/TC SWITCH/PRISM Boards –



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

HCD-CP100/CP100K

6-14. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC801 CXP83124A-048Q (SYSTEM CONTROLLER, LCD DRIVER)

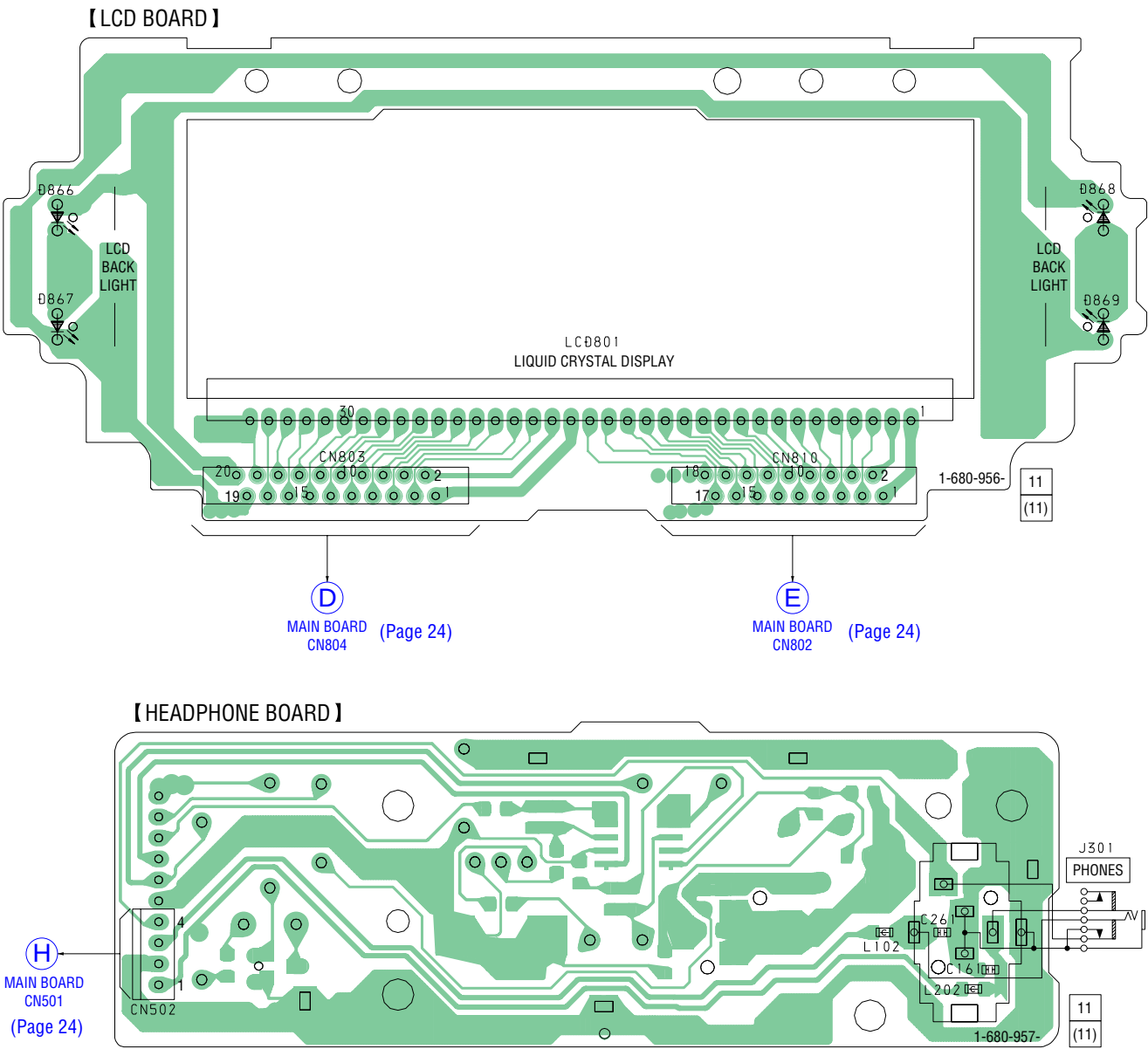
Pin No.	Pin Name	I/O	Description
1	TAPE-END	I	Tape end detect sensor input terminal "H" input when the tape end detected
2	(TUNED) RDS-IN	I	Serial data reading clock signal input from the RDS decoder (IC804) (Used for the AEP and UK models only)
3	REMOCON	I	Sircs remote control signal input from the remote control receiver (IC802)
4	MOT-CON	O	Capstan/reel motor on/off control signal output terminal "H": motor on
5	(TU-DATA) C-DATA/ TU-DATA	O	Serial data output to the DSP/SSP (IC101) (at CD function) PLL serial data output to the PLL IC (LC72137M) (at tuner function)
6	T-MODE	I	Head position detect switch input terminal "L": forward direction, "H": reverse direction
7	REG-CON	O	Main system power supply on/off control signal output terminal "H": power on
8	(TU-CLK) C-CLK/TU-CLK	O	Serial data transfer clock signal output to the DSP/SSP (IC101) (at CD function) PLL serial data transfer clock signal output to the PLL IC (LC72137M) (at tuner function)
9	JOG-C (BASS)	I	Jog dial pulse input from the rotary encoder (RV803 BASS) (C phase input)
10	SOL-CON	O	Trigger plunger on/off control signal output terminal "H": plunger on
11	(S-CLK) C-SQCK	O	Subcode Q data reading clock signal output to the DSP (IC101) (at CD function)
12	(S-SI) C-SQSO/ RDS-DATA	I	Subcode Q data input from the DSP (IC101) (at CD function) RDS serial data input from the RDS decoder (IC804) (at tuner function) (RDS decoder: used for the AEP and UK models only)
13	(S-SO) TRAY-OPEN	O	Motor drive signal output to the disc tray open/close motor driver (IC320) "H" active *1
14	(S-REQ) HOLD	O	Automatic power control hold signal output to the RF Amp (IC103)
15	(PBC-LED) TRAY-CLOSE	O	Motor drive signal output to the disc tray open/close motor driver (IC309) "H" active *1
16	JOG-D (BASS)	I	Jog dial pulse input from the rotary encoder (RV803 BASS) (D phase input)
17	(MPEG-RST) TUNED	I	Tuning detection signal input from the LA1837M (IC1) (at tuner function)
18	(TU-COUNT) SENSE2/ TU-COUNT	I	Internal status detection monitor input from the DSP (IC101) (for MIRR, DFCT2, etc.) (at CD function) PLL count data input from the PLL IC (LC72137M) (at tuner function)
19	(TU-CE) C-LATCH/ TU-CE	O	Serial data latch pulse output to the DSP (IC101) (at CD function) PLL serial chip enable signal output to the PLL IC (LC72137M) (at tuner function)
20	JOG-B	I	Jog dial pulse input from the rotary encoder (RV801 VOLUME) (B phase input)
21	JOG-A	I	Jog dial pulse input from the rotary encoder (RV801 VOLUME) (A phase input)
22	AMP-MUTE	O	Muting on/off control signal output to the power amplifier (IC101, 201) "H": muting on
23	(SCK) JOG-G	I	Jog dial pulse input from the rotary encoder (RV804 FUNCTION) (G phase input)
24	(MICHECK) HP-CHK	I	Headphone jack IN/OUT check detection signal input terminal
25	TU-ON	O	Power supply on/off control signal output of the tuner section (FM +7.5V) LED drive signal output of the TUNER indicator (D856) "H": tuner power on (LED on)
26	D.S.G.	O	LED drive signal output of the DSG (Dynamic Sound Generator) indicator (D858) "H": LED on
27	CD-SYNC	O	LED drive signal output of the CD SYNC indicator (D859) "H": LED on
28	(JOG-G) SCK	O	Serial data transfer clock signal output to the BD3861FS (IC323)
29	JOG-E (TREBLE)	I	Jog dial pulse input from the rotary encoder (RV802 TREBLE) (E phase input)

*1 Disc tray open/close motor control

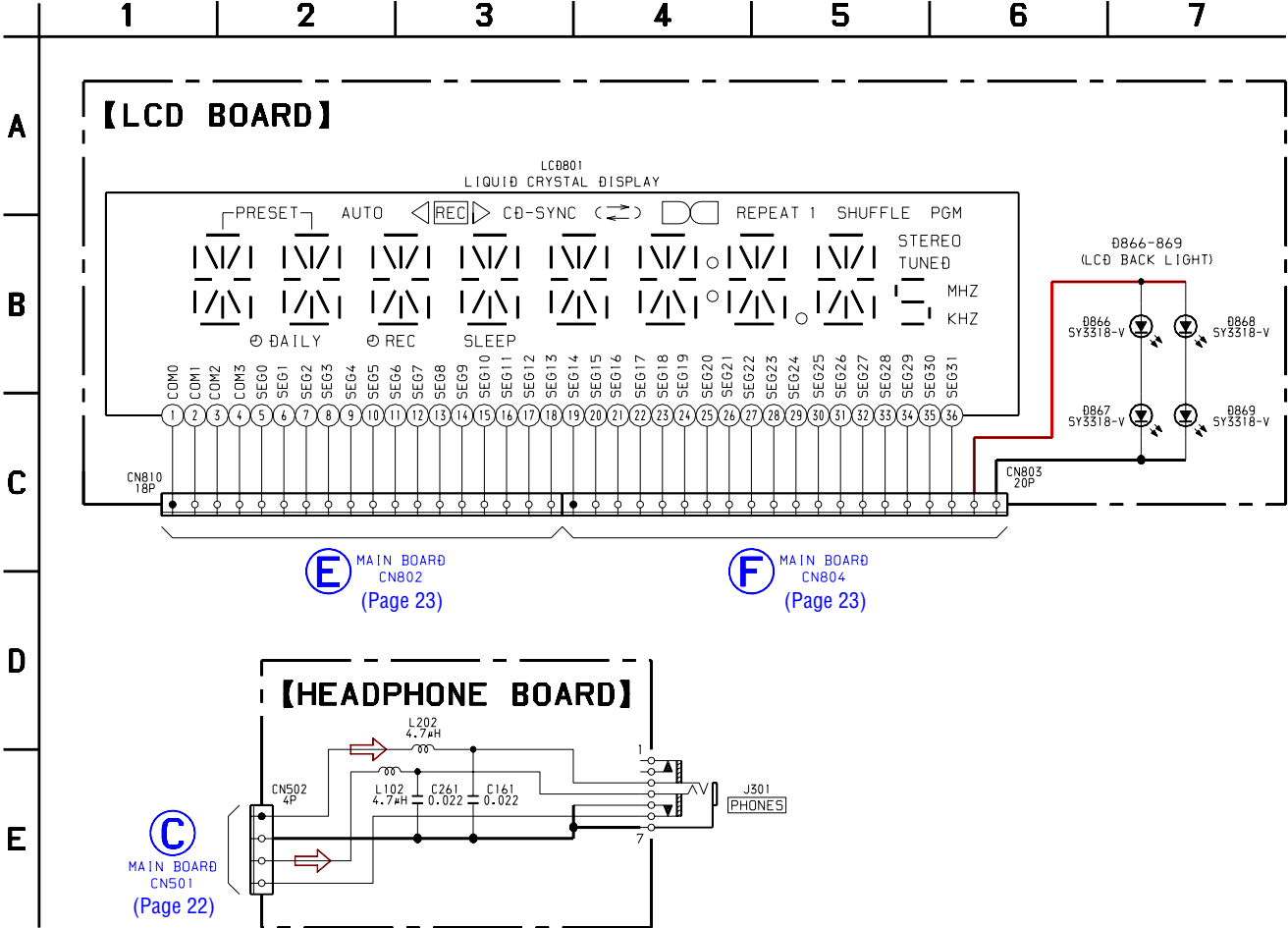
Mode Terminal	Stop	Table In	Table Out	Brake
TRAY-OPEN (pin ⑬)	“L”	“L”	“H”	“H”
TRAY-CLOSE (pin ⑭)	“L”	“H”	“L”	“H”

Pin No.	Pin Name	I/O	Description
30	JOG-F (TREBLE)	I	Jog dial pulse input from the rotary encoder (RV802 TREBLE) (F phase input)
31	JOG-H (FM-ON)	I	Jog dial pulse input from the rotary encoder (RV804 FUNCTION) (H phase input)
32	TC-SW	I	Half detect (side A and B) switch and cassette in detect switch input terminal (A/D input)
33	TRAY-SW (JOG-H)	I	Disc tray position detect switch (S1) input terminal (A/D input) “L”: close position, “M”: open position, “H”: moving
34	KEY3	I	Key input terminal (A/D input) S816 to S820 (BAND, DSG, TUNING +/-, TUNING MODE input)
35	KEY2	I	Key input terminal (A/D input) S801 to S808 (I/⏮, CD ▶ ■/▶▶▶ ▶▶/◀◀◀ ◀◀◀, PLAY MODE, REPEAT, CD EJECT ▲ keys input)
36	KEY1	I	Key input terminal (A/D input) S809 to S815 (TAPE ◀◀▶▶/■/▶▶▶/◀◀◀/ , REC ●, DC SYNC keys input)
37	SIMUKE/TEST	I	Destination setting terminal (A/D input)
38	RESET	I	System reset signal input from the reset signal generator (IC803) “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
39	EXTAL1	I	Main system clock input terminal (4.19 MHz)
40	XTAL1	O	Main system clock output terminal (4.19 MHz)
41	VSS	—	Ground terminal
42	XTAL2	O	Sub system clock output terminal (500 kHz) Not used (open)
43	EXTAL2	I	Sub system clock input terminal (500 kHz) Not used (fixed at “L”)
44	AVREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
45	AVSS	—	Ground terminal (for A/D conversion)
46	VL	O	Liquid crystal display bias on/off control signal output terminal
47 to 49	VLC3 to VLC1	—	Power supply terminal for the liquid crystal display bias
50 to 53	COM0 to COM3	O	Common drive signal output to the liquid crystal display (LCD801)
54 to 85	SEG0 to SEG31	O	Segment drive signal output to the liquid crystal display (LCD801)
86	C-XRST/FM ON	O	Reset signal output to the DSP (IC101) and BA5974FP (IC102) (at CD function) FM power supply ON/OFF control signal output to the tuner section (FM +7.5V) (at tuner function)
87	REC-MUTE	O	Recording muting on/off selection signal output to the Tape section “H”: muting on, “L”: muting off
88	SDA	O	Serial data output to the BD861FS (IC323)
89	VDD	—	Power supply terminal (+5V)
90	NC	—	Connected to power supply (+5V)
91	VSS	—	Ground terminal
92	TX	O	Sub system clock output terminal (32.768 kHz)
93	TEX	I	Sub system clock input terminal (32.768 kHz)
94	CD-ON	O	Power supply on/off control signal output of the CD section (+5V) LED drive signal output of the CD indicator (D852) “H”: CD power on (LED on)
95	REC/PB	O	Recording/playback selection signal output to the BA3126N (IC402) “L”: playback mode, “H”: recording mode
96	L-MUTE	O	Line muting on/off selection signal output to the Tape section “H”: muting on, “L”: muting off
97	AU-MUTE	O	Muting on/off control signal output terminal “H”: muting on
98	TC-ON	O	Power supply on/off control signal output of the cassette holder back light LED drive signal output of the TAPE indicator (D854, 855) “H”: back light on (LED on)
99	WP	I	Wakeup control signal input terminal
100	C-SCOR (S-ACK)	I	Subcode sync (S0+S1) detection signal input from DSP on the CD section (at CD function)

6-15. PRINTED WIRING BOARDS – LCD/HEADPHONE Boards –
• See page 17 for Circuit Boards Location.

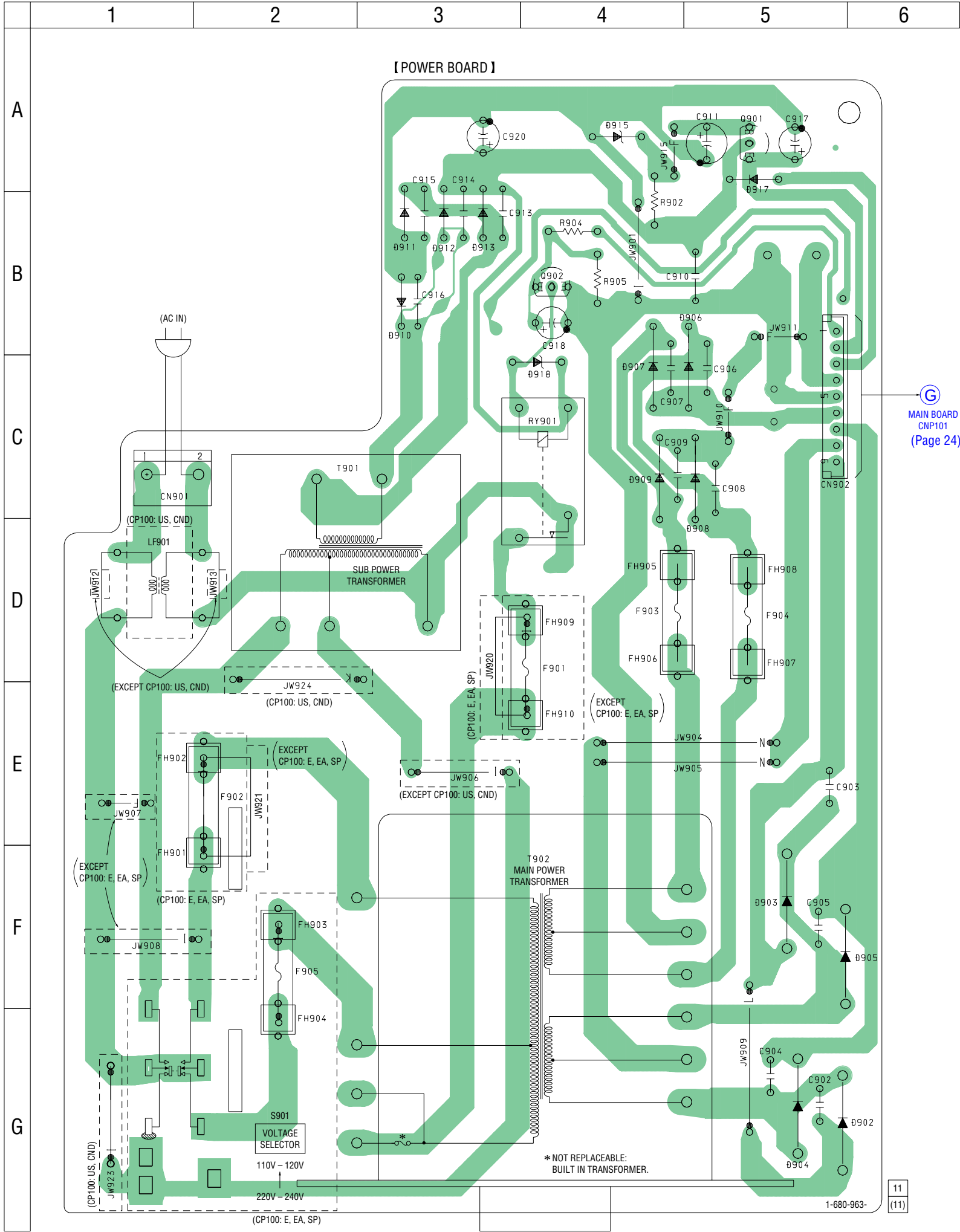


6-16. SCHEMATIC DIAGRAM – LCD/HEADPHONE Boards –



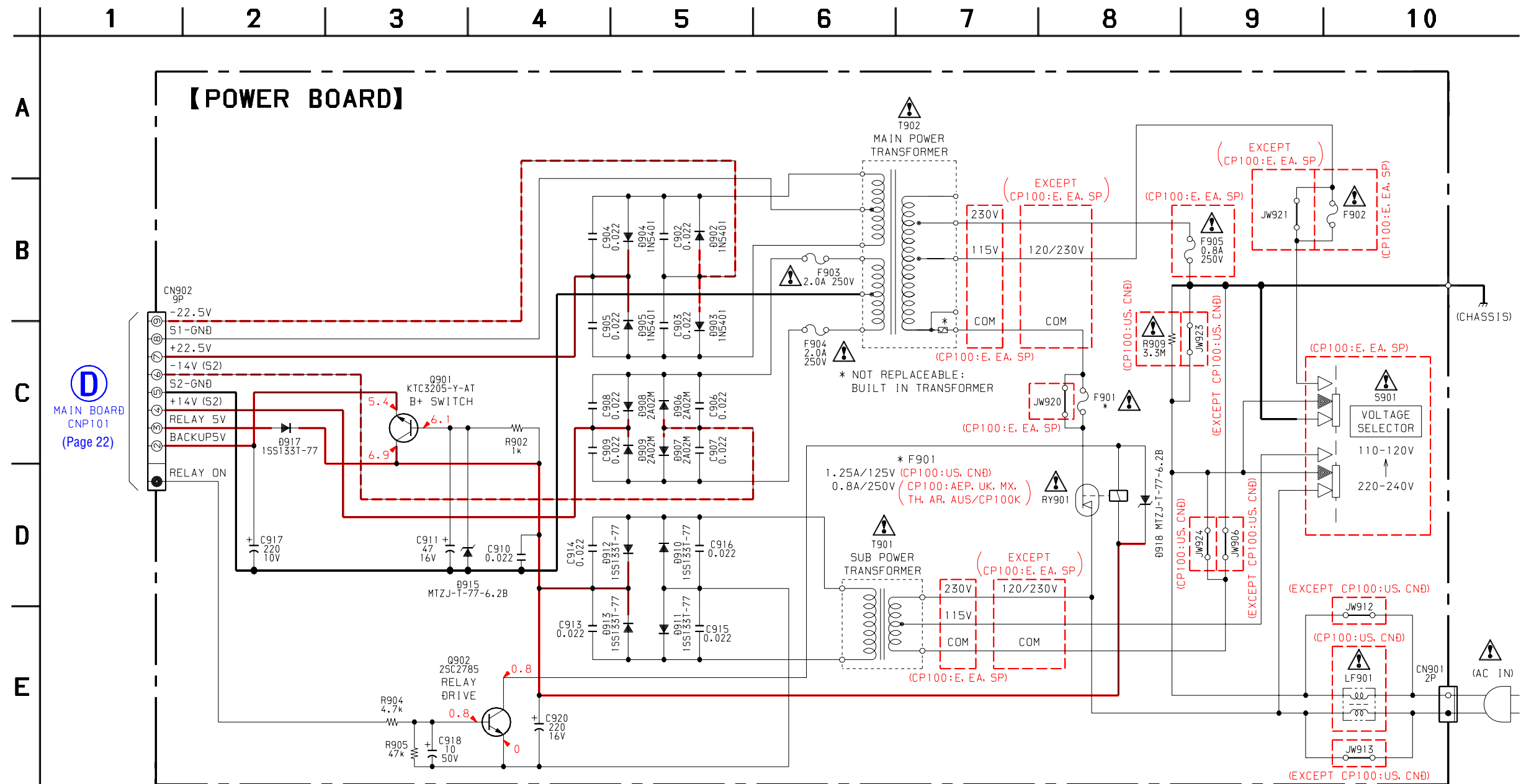
• Semiconductor Location

Ref. No.	Location
D902	G-5
D903	F-5
D904	G-5
D905	F-5
D906	B-5
D907	C-4
D908	C-5
D909	C-4
D910	B-3
D911	B-3
D912	B-3
D913	B-3
D915	A-4
D917	A-5
D918	C-4
Q901	A-5
Q902	B-4



MAIN BOARD
CNP101
(Page 24)

6-18. SCHEMATIC DIAGRAM – POWER Board –



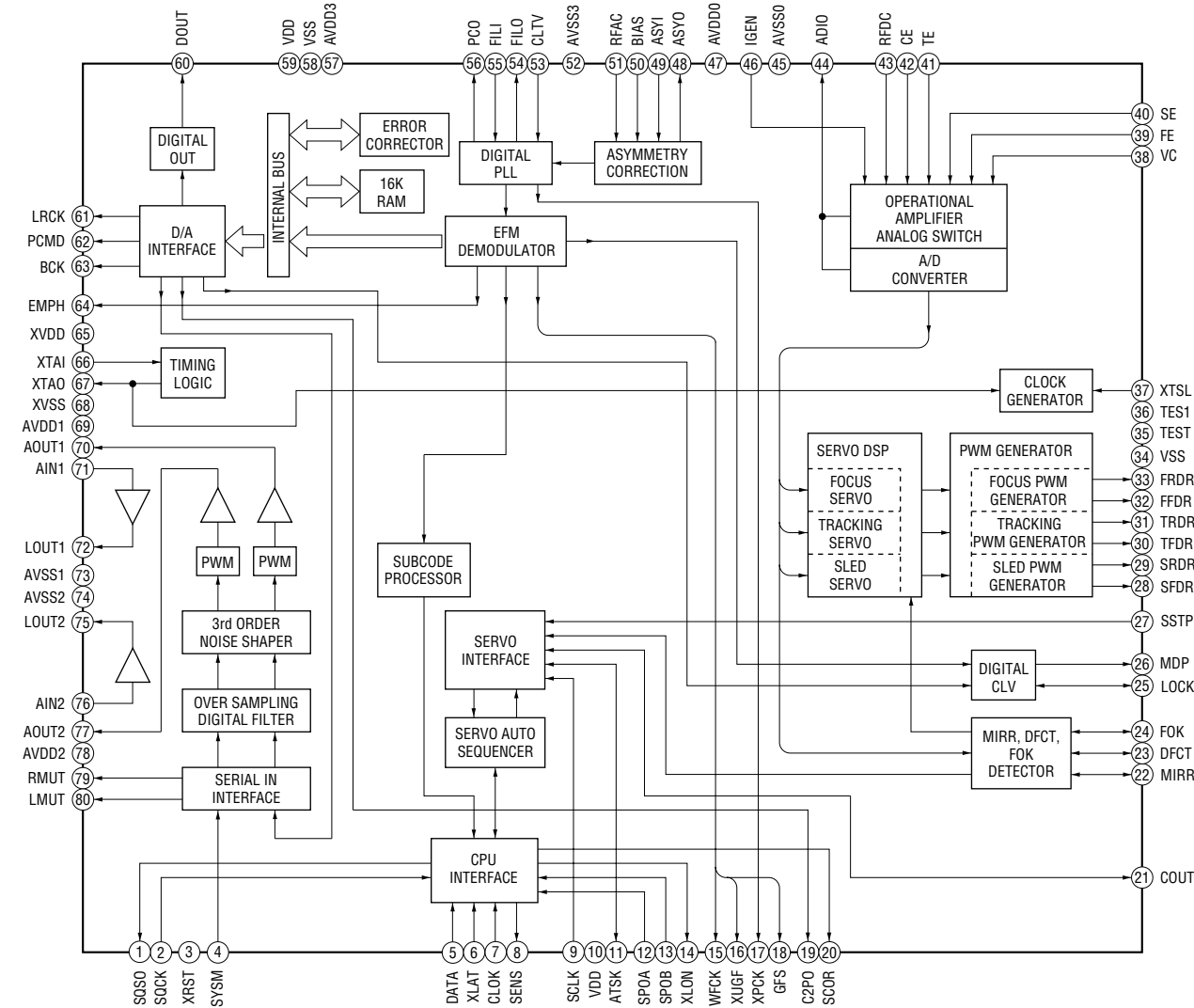
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

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

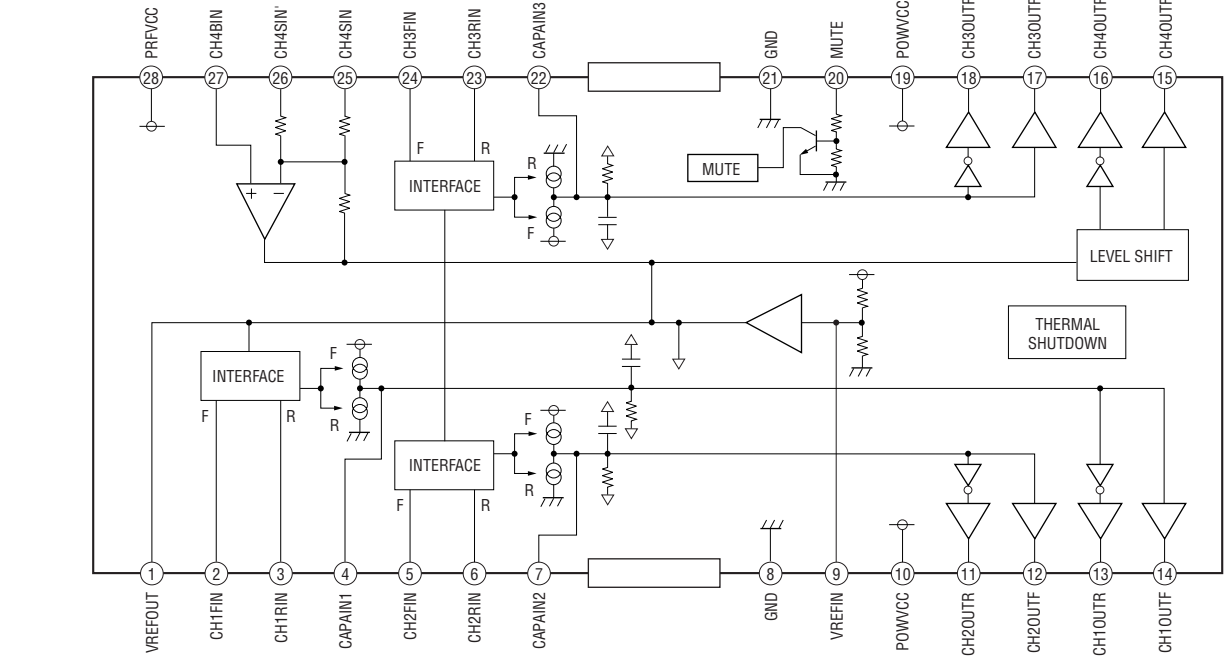
HCD-CP100/CP100K

- IC Block Diagrams
- CD Board –

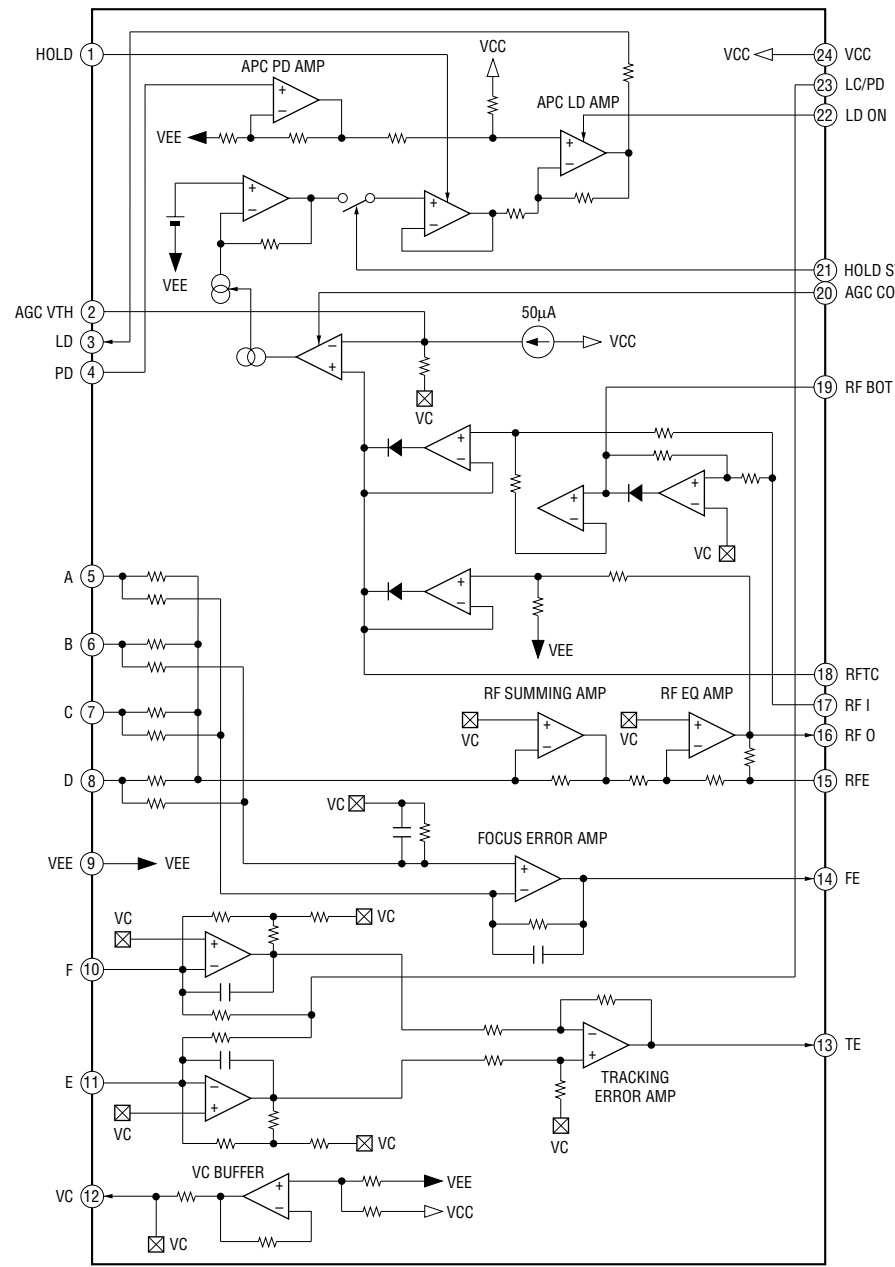
IC101 CXD2587Q



IC102 BA5974FP-E2

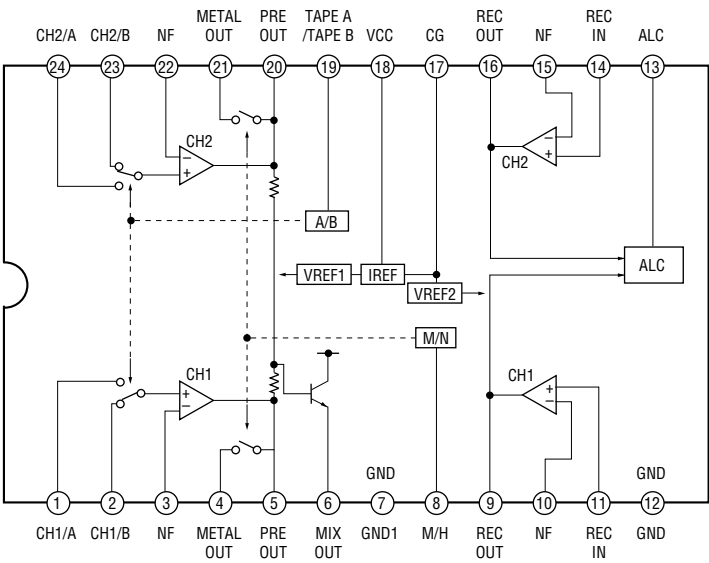


IC103 CXA2568M-T6



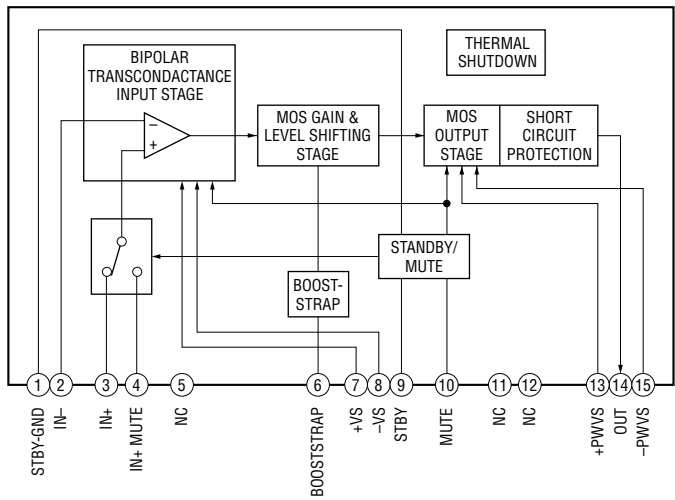
- TC Board -

IC401 TA8189N

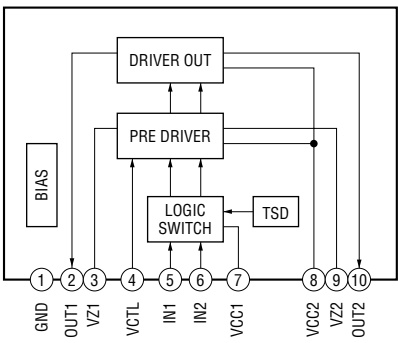


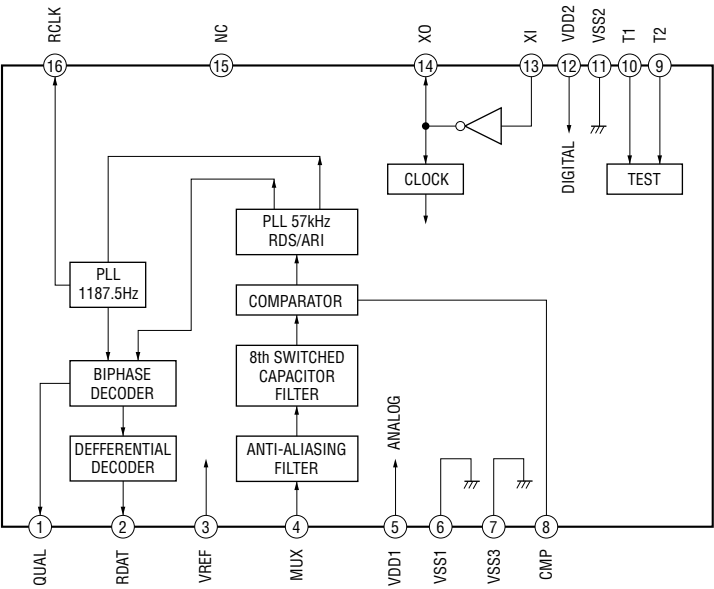
- MAIN Board -

IC101, 201 TDA7296



IC320 KA3082





SECTION 7

EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts

Example:

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

Parts Color Cabinet's Color

- Abbreviation

AR : Argentina model

AUS : Australian model

CND : Canadian model

EA : Saudi Arabia model

MX : Mexican model

SP : Singapore model

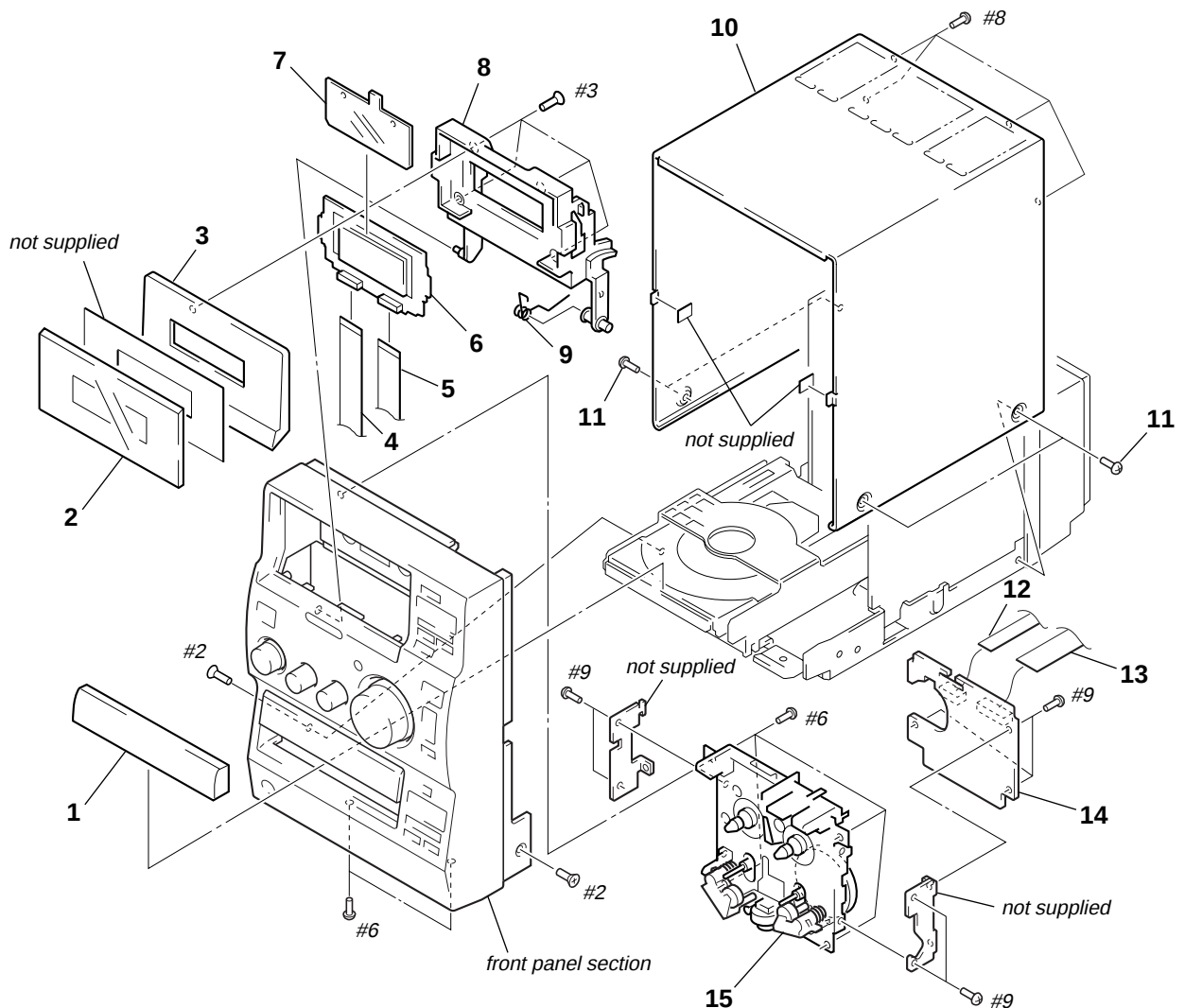
TH : Thailand model

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

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

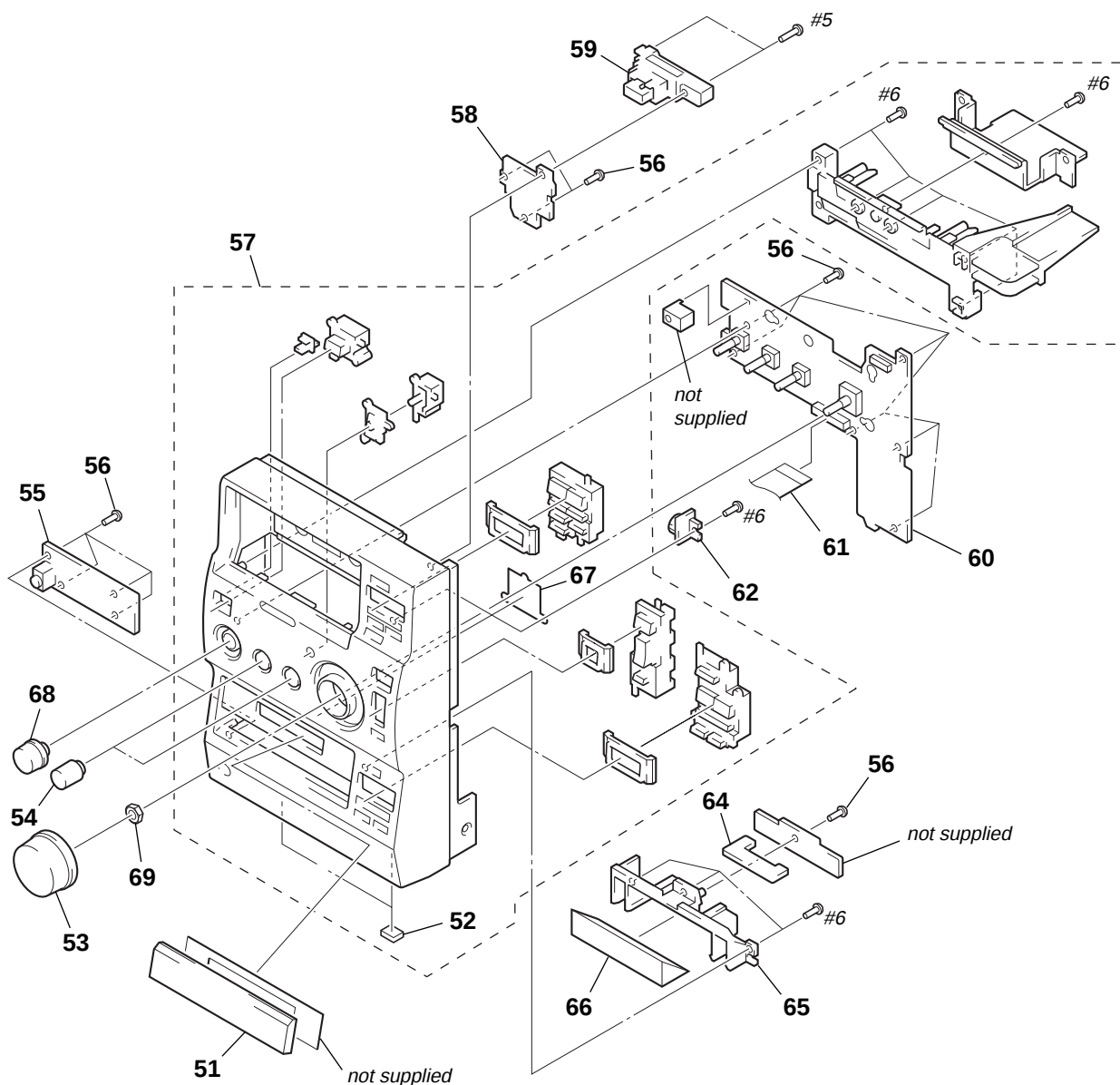
Les composants identifiés par une
marque  sont critiques pour la
sécurité.
Ne les remplacer que par une pièce
portant le numéro spécifié.

7-1. COVER SECTION



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
1	4-232-434-01	LID, CD		10	4-235-797-01	COVER (UPPER) (CP100K)	
2	4-232-470-01	WINDOW, CASSETTE		10	4-217-341-51	COVER (UPPER) (CP100)	
3	4-232-437-01	LID, CASSETTE		11	4-221-580-01	SCREW, CASE	
4	1-757-808-11	WIRE (FLAT TYPE) 18P		12	1-757-809-11	WIRE (FLAT TYPE)12P	
5	1-757-807-11	WIRE (FLAT TYPE) 20P		13	1-757-806-11	WIRE (FLAT TYPE) 21P	
6	1-680-956-11	LCD BOARD		14	A-4725-838-A	TC BOARD, COMPLETE (CP100: US, CND, AEP, UK, E, EA, SP, MX, AR, AUS)	
7	4-217-319-11	PLATE, LCD LIGHT					
8	X-4953-484-1	HOLDER SUB ASSY, CASSETTE		14	A-4726-167-A	TC BOARD, COMPLETE (CP100: TH/CP100K)	
9	4-229-069-02	SPRING, CASSETTE		15	1-796-101-12	DECK MECHA	

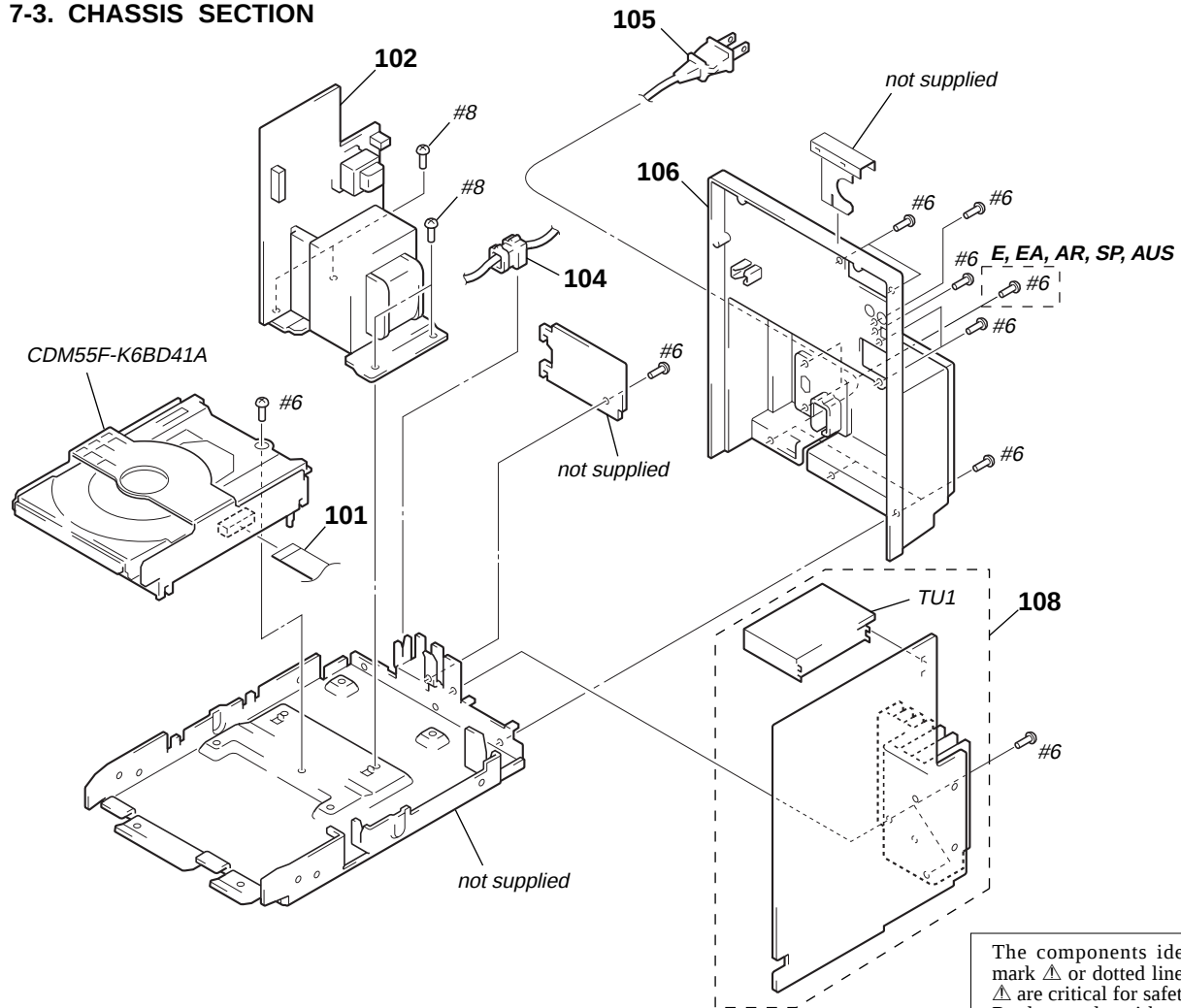
7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	4-232-471-01	WINDOW, CD	
52	4-232-478-01	FOOT	
53	4-232-441-01	KNOB (VOL)	
54	4-232-440-01	KNOB (BASS)	
55	1-680-957-11	HEADPHONE BOARD	
56	4-931-757-31	SCREW(DIA.2.6X8) (IT3B),TAPPING	
57	X-4953-474-1	PANEL SUB ASSY, FRONT (CP100: AEP, UK)	
57	X-4953-475-1	PANEL SUB ASSY, FRONT (CP100: US, CND, E, EA, SP, TH, MX, AR, AUS/CP100K)	
58	1-680-955-11	TC SWITCH BOARD	
59	X-4953-482-1	BUTTON ASSY, EJECT	
60	A-4476-358-A	SWITCH BOARD, COMPLETE (CP100: US, CND, AEP, UK, E, EA, SP, MX, AR, AUS)	

Ref. No.	Part No.	Description	Remark
60	A-4726-170-A	SWITCH BOARD, COMPLETE (CP100: TH/CP100K)	
61	1-757-805-11	WIRE (FLAT TYPE) 23P	
62	3-351-377-11	GEAR, DAMPER	
64	1-680-959-11	PRISH BOARD	
65	4-232-452-01	HOLDER (PRISM)	
66	4-232-451-01	PRISM	
67	1-418-693-32	INDICATOR BLOCK, LED	
68	4-232-439-01	KNOB (SELECT)	
69	4-226-047-01	NUT, HEXAGON	

7-3. CHASSIS SECTION

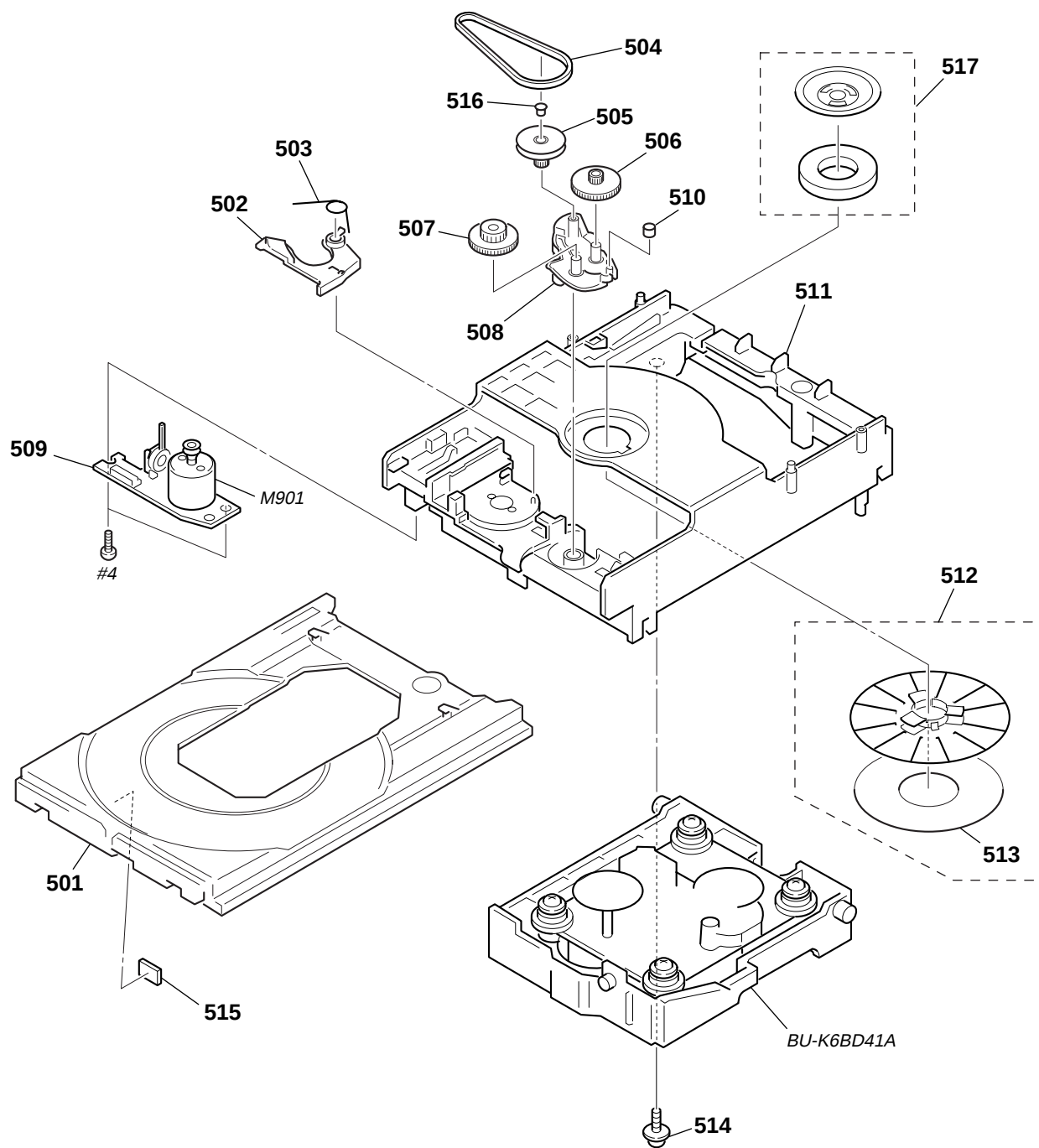


The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

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

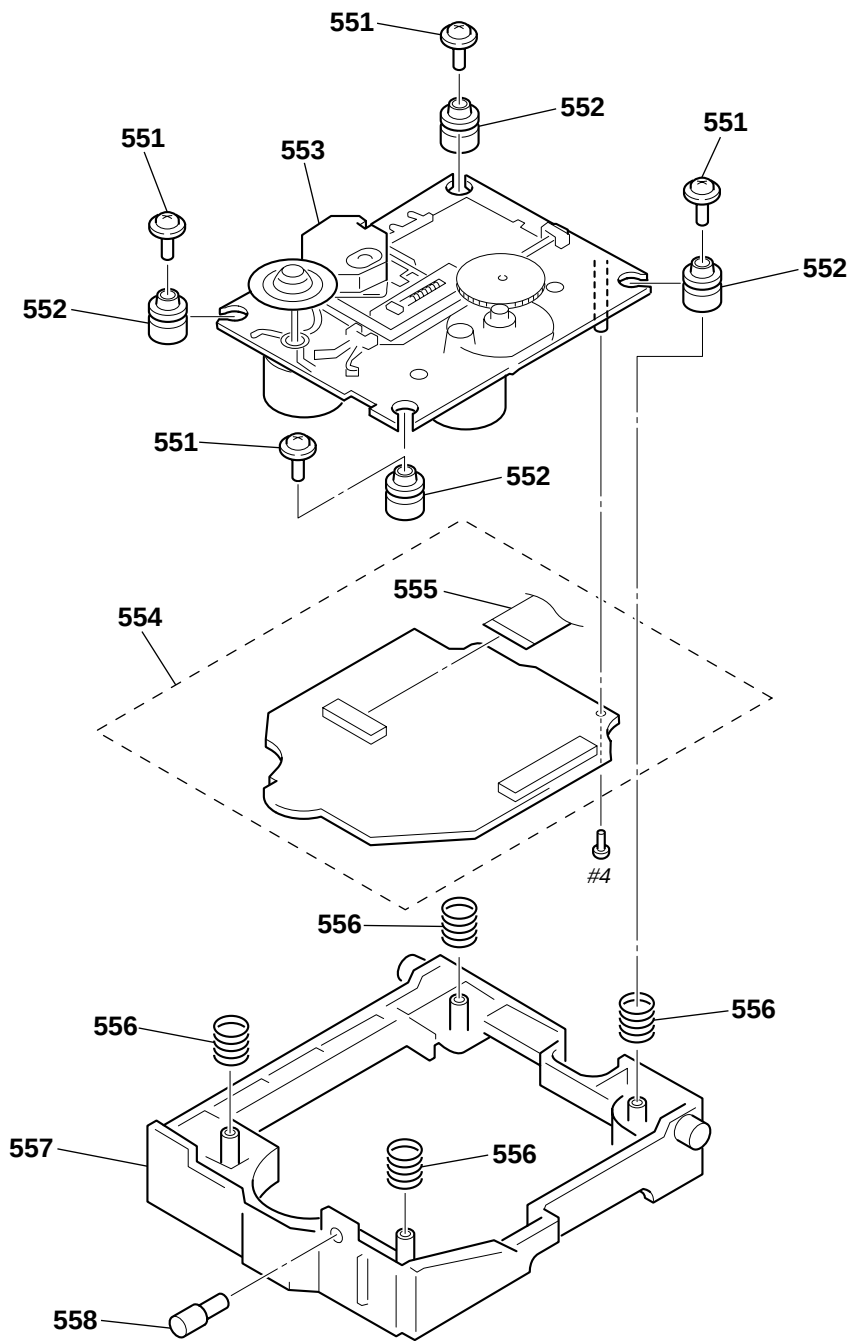
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
101	1-792-411-11	CABLE, FLEXIBLE FLAT (19 CORE)		106	4-232-435-11	PANEL, BACK (CP100: US, CND)	
102	A-4725-828-A	POWER BOARD, COMPLETE (CP100: AR)		106	4-232-435-31	PANEL, BACK (CP100: AUS)	
102	A-4476-362-A	POWER BOARD, COMPLETE (CP100: AEP, UK, AUS)		106	4-232-435-51	PANEL, BACK (CP100: E, EA, SP, AR)	
102	A-4725-824-A	POWER BOARD, COMPLETE (CP100: E, EA, SP)		106	4-232-435-61	PANEL, BACK (CP100: TH/CP100K)	
102	A-4725-830-A	POWER BOARD, COMPLETE (CP100: MX)		106	4-232-435-71	PANEL, BACK (CP100: MX)	
102	A-4726-172-A	POWER BOARD, COMPLETE (CP100: TH/CP100K)		106	X-4953-476-1	PANEL SUB ASSY, BACK (CP100: AEP, UK)	
102	A-4725-822-A	POWER BOARD, COMPLETE (CP100: US, CND)		108	A-4725-829-A	MAIN BOARD, COMPLETE (CP100: AR)	
104	3-703-571-11	BUSHING (S) (4516), CORD (CP100: TH/CP100K)		108	A-4725-821-A	MAIN BOARD, COMPLETE (CP100: AUS)	
104	4-217-350-11	STOPPER, CORD(CP100: US, CND, AEP, UK, E, EA, SP, MX, AR, AUS)		108	A-4476-361-A	MAIN BOARD, COMPLETE (CP100: AEP, UK)	
△ 105	1-556-091-00	CORD, POWER (CP100: TH/CP100K)		108	A-4725-827-A	MAIN BOARD, COMPLETE (CP100: E)	
△ 105	1-696-169-11	CORD, POWER (CP100: AEP, UK, EA, SP)		108	A-4725-826-A	MAIN BOARD, COMPLETE (CP100: EA)	
△ 105	1-696-848-41	CORD, POWER (CP100: AUS)		108	A-4725-831-A	MAIN BOARD, COMPLETE (CP100: MX)	
△ 105	1-775-789-91	CORD, POWER (CP100: E)		108	A-4725-825-A	MAIN BOARD, COMPLETE (CP100: SP)	
△ 105	1-783-531-71	CORD, POWER (CP100: US, CND)		108	A-4726-165-A	MAIN BOARD, COMPLETE (CP100: TH)	
△ 105	1-783-941-21	CORD, POWER (CP100: AR)		108	A-4725-823-A	MAIN BOARD, COMPLETE (CP100: US, CND)	
				108	A-4726-173-A	MAIN BOARD, COMPLETE (CP100K)	
				TU1	A-4476-412-A	TUNER UNIT (TCB-022N) (CP100: US, CND, E, EA, SP, TH, MX, AR/CP100K)	
				TU1	A-4476-414-A	TUNER UNIT (TCB-022) (CP100: AEP, UK, AUS)	

7-4. CD MECHANISM DECK (CDM55F-K6BD41A)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501	4-224-894-01	TRAY		510	4-221-815-02	ROLLER	
502	4-220-229-02	LEVER (SW)		511	4-231-779-01	CHASSIS (F)	
503	4-220-239-01	SPRING, TORSION		512	A-4735-081-A	PULLEY (AT-55F) ASSY	
504	4-221-816-01	BELT (CDM55)		513	4-232-398-01	SHEET (KH)	
505	4-220-234-01	PULLEY (LDG)		514	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
506	4-220-237-02	GEAR (A)		515	4-925-315-31	DAMPER	
507	4-220-238-01	GEAR (B)		516	4-227-598-01	SPACER (55)	
508	4-220-233-01	CAM (CDM55)		517	A-4735-082-A	MAGNET ASSY	
509	1-681-807-11	LOADING BOARD		M901	A-2004-893-A	MOTOR (LD) ASSY	

7-5. BASE UNIT (BU-K6BD41A)



The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
551	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING		555	1-757-055-11	WIRE, PARALLEL (FFC) (16 CORE)	
552	4-229-005-01	INSULATOR		556	4-229-004-01	SPRING, COMPRESSION	
△ 553	8-820-116-02	OPTICAL PICK-UP KSM-213DCP/ZRP1		557	4-231-780-01	HOLDER (213D)	
554	A-4725-626-A	CD BOARD, COMPLETE		558	4-221-817-02	SHAFT (BU)	

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Abbreviation
AR : Argentina model CND : Canadian model SP : Singapore model
AUS : Australian model EA : Saudi Arabia model TH : Thailand model
BR : Brazilian model MX : Mexican model
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . : μ A. . uPA. . : μ PA. .
uPB. . : μ PB. . uPC. . : μ PC. .
uPD. . : μ PD. .
- CAPACITORS
uF: μ F
- COILS
uH: μ H

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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-4725-626-A	CD BOARD, COMPLETE *****					
		< CAPACITOR >					
C101	1-162-962-11	CERAMIC CHIP 470PF	10% 50V	C168	1-162-919-11	CERAMIC CHIP 22PF 5% 50V	
C102	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	C171	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C103	1-162-962-11	CERAMIC CHIP 470PF	10% 50V	C172	1-164-218-11	CERAMIC CHIP 180PF 0.25PF 50V	
C104	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C181	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C108	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	C182	1-164-218-11	CERAMIC CHIP 180PF 0.25PF 50V	
						< CONNECTOR >	
C109	1-162-965-11	CERAMIC CHIP 0.0015uF	10% 50V	CN101	1-691-078-41	HOUSING, CONNECTOR 19P	
C110	1-162-967-11	CERAMIC CHIP 0.0033uF	10% 50V	CN102	1-785-953-11	CONNECTOR, FFC/FPC	
C111	1-162-927-11	CERAMIC CHIP 100PF	5% 50V			< FERRITE BEAD >	
C112	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	FB101	1-469-144-21	FERRITE 0uH	
C114	1-164-360-11	CERAMIC CHIP 0.1uF	16V	FB102	1-469-144-21	FERRITE 0uH	
				FB103	1-469-144-21	FERRITE 0uH	
C115	1-126-382-11	ELECT 100uF	20% 16V	FB104	1-469-144-21	FERRITE 0uH	
C116	1-126-382-11	ELECT 100uF	20% 16V			< IC >	
C117	1-126-382-11	ELECT 100uF	20% 16V	IC101	8-752-386-85	IC CXD2587Q	
C118	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	IC102	8-759-549-28	IC BA5974FP-E2	
C119	1-162-919-11	CERAMIC CHIP 22PF	5% 50V	IC103	8-752-085-51	IC CXA2568M-T6	
						< COIL >	
C121	1-164-360-11	CERAMIC CHIP 0.1uF	16V	L101	1-410-993-11	INDUCTOR CHIP 1uH	
C122	1-126-382-11	ELECT 100uF	20% 16V			< TRANSISTOR >	
C123	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	Q101	8-729-010-08	TRANSISTOR MSB710-RT1	
C124	1-125-891-11	CERAMIC CHIP 0.47uF	10% 10V			< RESISTOR >	
C125	1-164-360-11	CERAMIC CHIP 0.1uF	16V	R101	1-216-835-11	METAL CHIP 15K 5% 1/16W	
				R102	1-216-845-11	METAL CHIP 100K 5% 1/16W	
C126	1-164-360-11	CERAMIC CHIP 0.1uF	16V	R103	1-216-835-11	METAL CHIP 15K 5% 1/16W	
C127	1-126-382-11	ELECT 100uF	20% 16V	R104	1-216-839-11	METAL CHIP 33K 5% 1/16W	
C129	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	R105	1-216-833-11	METAL CHIP 10K 5% 1/16W	
C130	1-115-156-11	CERAMIC CHIP 1uF	10V				
C131	1-124-233-11	ELECT 10uF	20% 16V	R106	1-216-821-11	METAL CHIP 1K 5% 1/16W	
				R107	1-216-833-11	METAL CHIP 10K 5% 1/16W	
C133	1-115-156-11	CERAMIC CHIP 1uF	10V	R108	1-216-827-11	METAL CHIP 3.3K 5% 1/16W	
C140	1-115-156-11	CERAMIC CHIP 1uF	10V	R109	1-216-857-11	METAL CHIP 1M 5% 1/16W	
C141	1-115-156-11	CERAMIC CHIP 1uF	10V	R110	1-216-809-11	METAL CHIP 100 5% 1/16W	
C143	1-164-360-11	CERAMIC CHIP 0.1uF	16V				
C145	1-164-360-11	CERAMIC CHIP 0.1uF	16V	R111	1-216-857-11	METAL CHIP 1M 5% 1/16W	
				R113	1-216-857-11	METAL CHIP 1M 5% 1/16W	
C146	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	R114	1-216-833-11	METAL CHIP 10K 5% 1/16W	
C147	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	R116	1-216-797-11	METAL CHIP 10 5% 1/16W	
C148	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	R117	1-216-821-11	METAL CHIP 1K 5% 1/16W	
C153	1-164-360-11	CERAMIC CHIP 0.1uF	16V				
C159	1-162-969-11	CERAMIC CHIP 0.0068uF	10% 25V				
C160	1-124-257-00	ELECT 2.2uF	20% 50V				
C162	1-126-382-11	ELECT 100uF	20% 16V				
C163	1-126-382-11	ELECT 100uF	20% 16V				
C165	1-164-360-11	CERAMIC CHIP 0.1uF	16V				
C167	1-162-920-11	CERAMIC CHIP 27PF	5% 50V				

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R118	1-216-809-11	METAL CHIP	100	5%	1/16W		1-680-956-11	LCD BOARD			
R119	1-216-817-11	METAL CHIP	470	5%	1/16W			*****			
R123	1-216-833-11	METAL CHIP	10K	5%	1/16W			< CONNECTOR >			
R124	1-216-845-11	METAL CHIP	100K	5%	1/16W		CN803	1-785-949-11	CONNECTOR, FFC/FPC 20P		
R131	1-216-809-11	METAL CHIP	100	5%	1/16W		CN810	1-785-950-11	CONNECTOR, FFC/FPC 18P		
R132	1-216-863-11	RES-CHIP	3.3M	5%	1/16W			< LED >			
R143	1-216-848-11	METAL CHIP	180K	5%	1/16W		D866	8-719-085-55	LED SY3318-V-L (LCD BACK LIGHT)		
R144	1-216-848-11	METAL CHIP	180K	5%	1/16W		D867	8-719-085-55	LED SY3318-V-L (LCD BACK LIGHT)		
R147	1-216-831-11	METAL CHIP	6.8K	5%	1/16W		D868	8-719-085-55	LED SY3318-V-L (LCD BACK LIGHT)		
R148	1-216-797-11	METAL CHIP	10	5%	1/16W		D869	8-719-085-55	LED SY3318-V-L (LCD BACK LIGHT)		
R149	1-216-797-11	METAL CHIP	10	5%	1/16W			< LIQUID CRYSTAL DISPLAY >			
R158	1-216-852-11	METAL CHIP	390K	5%	1/16W		LCD801	1-803-542-11	DISPLAY PANEL, LIQUID CRYSTAL		
R159	1-216-847-11	METAL CHIP	150K	5%	1/16W		*****				
R160	1-216-833-11	METAL CHIP	10K	5%	1/16W		1-681-807-11	LOADING BOARD			
R161	1-216-821-11	METAL CHIP	1K	5%	1/16W			*****			
R162	1-216-847-11	METAL CHIP	150K	5%	1/16W			< CONNECTOR >			
R171	1-218-291-11	RES-CHIP	16K	5%	1/16W		* CN1	1-568-943-11	PIN, CONNECTOR 5P		
R172	1-216-833-11	METAL CHIP	10K	5%	1/16W			< SWITCH >			
R173	1-216-835-11	METAL CHIP	15K	5%	1/16W		S1	1-771-799-11	SWITCH, LEVER (SLIDE)		
R181	1-218-291-11	RES-CHIP	16K	5%	1/16W			(DISC TRAY OPEN/CLOSE DETECT)			
R182	1-216-833-11	METAL CHIP	10K	5%	1/16W		*****				
R183	1-216-835-11	METAL CHIP	15K	5%	1/16W		A-4476-361-A	MAIN BOARD, COMPLETE (CP100: AEP, UK)			
		< NETWORK RESISTOR >					A-4725-821-A	MAIN BOARD, COMPLETE (CP100: AUS)			
RN101	1-233-576-11	RES, CHIP NETWORK 100					A-4725-823-A	MAIN BOARD, COMPLETE (CP100: US, CND)			
		< SWITCH >					A-4725-825-A	MAIN BOARD, COMPLETE (CP100: SP)			
S101	1-771-853-11	SWITCH, DETECTION (LIMIT)					A-4725-826-A	MAIN BOARD, COMPLETE (CP100: EA)			
		< VIBRATOR >					A-4725-827-A	MAIN BOARD, COMPLETE (CP100: E)			
X101	1-781-947-11	VIBRATOR, CRYSTAL (16.9344MHz)					A-4725-829-A	MAIN BOARD, COMPLETE (CP100: AR)			
*****							A-4725-831-A	MAIN BOARD, COMPLETE (CP100: MX)			
	1-680-957-11	HEADPHONE BOARD					A-4726-165-A	MAIN BOARD, COMPLETE (CP100: TH)			
		*****					A-4726-173-A	MAIN BOARD, COMPLETE (CP100K)			
		< CAPACITOR >						*****			
C161	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V		4-217-354-11	BUSHING, INSULATING			
C261	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V		4-230-078-01	SCREW, +BV TAPPING			
		< CONNECTOR >					7-685-546-14	SCREW +BTP 3X8 TYPE2 N-S			
CN502	1-506-469-11	PIN, CONNECTOR 4P					7-685-548-19	SCREW +BTP 3X12 TYPE2 N-S (CP100: EA)			
		< JACK >						< CAPACITOR >			
J301	1-794-435-11	JACK (PHONES)				C101	1-126-963-11	ELECT	4.7uF	20%	50V
		< COIL >				C102	1-126-963-11	ELECT	4.7uF	20%	50V
L102	1-412-002-41	INDUCTOR CHIP	4.7uH			C103	1-126-963-11	ELECT	4.7uF	20%	50V
L202	1-412-002-41	INDUCTOR CHIP	4.7uH			C104	1-126-963-11	ELECT	4.7uF	20%	50V
*****						C105	1-126-963-11	ELECT	4.7uF	20%	50V
						C107	1-126-963-11	ELECT	4.7uF	20%	50V
						C108	1-126-963-11	ELECT	4.7uF	20%	50V
						C109	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
						C110	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
						C111	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
						C112	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
						C113	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
						C114	1-126-963-11	ELECT	4.7uF	20%	50V
						C117	1-162-927-11	CERAMIC CHIP	100PF	5%	50V

HCD-CP100/CP100K

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C130	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	C317	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C140	1-126-961-11	ELECT	2.2uF	20%	50V	C318	1-104-661-11	ELECT	330uF	20%	16V
C141	1-126-965-11	ELECT	22uF	20%	50V	C319	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C142	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C320	1-104-666-11	ELECT	220uF	20%	16V
C143	1-126-965-11	ELECT	22uF	20%	50V	C321	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C144	1-130-495-00	MYLAR	0.1uF	5%	50V	C322	1-104-666-11	ELECT	220uF	20%	16V
C145	1-130-495-00	MYLAR	0.1uF	5%	50V	C323	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C160	1-104-665-11	ELECT	100uF	20%	16V	C324	1-126-935-11	ELECT	470uF	20%	16V
C170	1-104-509-11	CERAMIC CHIP	0.018uF	10%	16V	C325	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C170	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	C326	1-104-665-11	ELECT	100uF	20%	16V
C170	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C328	1-104-665-11	ELECT	100uF	20%	16V
C201	1-126-963-11	ELECT	4.7uF	20%	50V	C329	1-126-935-11	ELECT	470uF	20%	16V
C202	1-126-963-11	ELECT	4.7uF	20%	50V	C330	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C203	1-126-963-11	ELECT	4.7uF	20%	50V	C331	1-104-666-11	ELECT	220uF	20%	10V
C204	1-126-963-11	ELECT	4.7uF	20%	50V	C332	1-126-767-11	ELECT	1000uF	20%	10V
C205	1-126-963-11	ELECT	4.7uF	20%	50V	C333	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C206	1-126-963-11	ELECT	4.7uF	20%	50V	C339	1-126-935-11	ELECT	470uF	20%	16V
C207	1-126-963-11	ELECT	4.7uF	20%	50V	C340	1-126-963-11	ELECT	4.7uF	20%	50V
C208	1-126-963-11	ELECT	4.7uF	20%	50V	C341	1-164-360-11	CERAMIC CHIP	0.1uF	10%	16V
C209	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	C342	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C210	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V	C343	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C211	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V	C344	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C212	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C345	1-104-665-11	ELECT	100uF	20%	10V
C213	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C346	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C214	1-126-963-11	ELECT	4.7uF	20%	50V	C347	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C217	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C348	1-162-290-31	CERAMIC	470PF	10%	50V
C230	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	C349	1-104-665-11	ELECT	100uF	20%	10V
C240	1-126-961-11	ELECT	2.2uF	20%	50V	C360	1-126-935-11	ELECT	470uF	20%	16V
C241	1-126-965-11	ELECT	22uF	20%	50V	C361	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C242	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C362	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C243	1-126-965-11	ELECT	22uF	20%	50V	C363	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C244	1-130-495-00	MYLAR	0.1uF	5%	50V	C364	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C245	1-130-495-00	MYLAR	0.1uF	5%	50V	C365	1-124-444-11	ELECT	220uF	20%	10V
C260	1-104-665-11	ELECT	100uF	20%	16V	C370	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C270	1-104-509-11	CERAMIC CHIP	0.018uF	10%	16V	C371	1-164-159-11	CERAMIC	0.1uF		50V
C270	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	C372	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C270	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C373	1-162-294-31	CERAMIC	0.001uF	10%	50V
C301	1-126-964-11	ELECT	10uF	20%	50V	C600	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C304	1-104-665-11	ELECT	100uF	20%	16V	C603	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C305	1-104-665-11	ELECT	100uF	20%	16V	C604	1-104-664-11	ELECT	47uF	20%	16V
C306	1-126-964-11	ELECT	10uF	20%	50V	C605	1-164-185-11	CERAMIC CHIP	13PF	5%	50V
C307	1-126-963-11	ELECT	4.7uF	20%	50V	C606	1-164-185-11	CERAMIC CHIP	13PF	5%	50V
C308	1-126-955-11	ELECT	4700uF	20%	35V	C607	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C309	1-126-955-11	ELECT	4700uF	20%	35V	C608	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C310	1-126-944-11	ELECT	3300uF	20%	25V	C609	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C311	1-126-942-61	ELECT	1000uF	20%	25V	C610	1-126-963-11	ELECT	4.7uF	20%	50V
C312	1-104-666-11	ELECT	220uF	20%	16V	C611	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C313	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C800	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C314	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C803	1-162-975-11	CERAMIC CHIP	24PF	5%	50V
C315	1-104-664-11	ELECT	47uF	20%	16V	C804	1-162-975-11	CERAMIC CHIP	24PF	5%	50V
C316	1-164-156-11	CERAMIC CHIP	0.1uF		25V						

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C805	1-115-156-11	CERAMIC CHIP 1uF	10V	< SHORT >			
C806	1-115-156-11	CERAMIC CHIP 1uF	10V	JR115	1-216-864-11	SHORT	0
C807	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	JR215	1-216-864-11	SHORT	0
C808	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	JR300	1-216-864-11	SHORT	0
C809	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	JR301	1-216-864-11	SHORT	0
C810	1-115-456-21	CAPACITOR 0.22F	5.5V	JR302	1-216-864-11	SHORT	0
C811	1-162-919-11	CERAMIC CHIP 22PF	5% 50V	JR303	1-216-864-11	SHORT	0
C812	1-162-920-11	CERAMIC CHIP 27PF	5% 50V	JR304	1-216-864-11	SHORT	0
C813	1-126-964-11	ELECT 10uF	20% 50V	JR305	1-216-864-11	SHORT	0
C814	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	JR306	1-216-864-11	SHORT	0
< CONNECTOR >				JR307	1-216-864-11	SHORT	0
* CN101	1-569-935-11	SOCKET, CONNECTOR 19P		JR309	1-216-864-11	SHORT	0
* CN301	1-569-366-11	SOCKET, CONNECTOR 18P		JR323	1-216-864-11	SHORT	0
* CN401	1-568-954-11	PIN, CONNECTOR 5P		< COIL >			
CN501	1-506-469-11	PIN, CONNECTOR 4P		L101	1-420-872-00	COIL, AIR-CORE	
CN801	1-794-393-11	CONNECTOR, FFC/FPC 23P		L201	1-420-872-00	COIL, AIR-CORE	
CN802	1-785-951-11	CONNECTOR, FFC/FPC (ZIF) 18P		L301	1-410-324-11	INDUCTOR	4.7uH
CN804	1-785-952-11	CONNECTOR, FFC/FPC (ZIF) 20P		L302	1-412-002-31	INDUCTOR	4.7uH
< DIODE >				L303	1-410-509-11	INDUCTOR	10uH
D303	8-719-200-82	DIODE 11ES2-TA1B		L304	1-414-137-31	INDUCTOR	0.22uH
D304	8-719-921-40	DIODE MTZJ-T-77-4.7C		L305	1-410-750-41	INDUCTOR	4.7uH
D305	8-719-921-75	DIODE MTZN-T-77-10B		< TRANSISTOR >			
D306	8-719-921-63	DIODE MTZJ-T-77-7.5B		Q100	8-729-920-31	TRANSISTOR	DTC343TK-T-146
D307	8-719-921-75	DIODE MTZN-T-77-10B		Q200	8-729-920-31	TRANSISTOR	DTC343TK-T-146
D308	8-719-109-89	DIODE MTZJ-T-77-5.6B		Q301	8-729-028-54	TRANSISTOR	KTC3205-Y-AT
D309	8-719-110-08	DIODE MTZJ-T-77-8.2B		Q302	8-729-028-54	TRANSISTOR	KTC3205-Y-AT
D310	8-719-200-82	DIODE 11ES2-TA1B		Q303	8-759-068-54	TRANSISTOR	KRA102S
D311	8-719-110-31	DIODE MTZJ-T-77-12B		Q304	8-729-038-68	TRANSISTOR	KRC103S
D601	8-719-200-82	DIODE 11ES2-TA1B		Q305	8-729-019-00	TRANSISTOR	KTC2026
D602	8-719-200-82	DIODE 11ES2-TA1B		Q306	8-729-019-00	TRANSISTOR	KTC2026
D801	8-719-991-33	DIODE 1SS133T-77		Q307	8-759-068-54	TRANSISTOR	KRA102S
D802	8-719-991-33	DIODE 1SS133T-77		Q308	8-729-038-68	TRANSISTOR	KRC103S
D805	8-719-982-11	DIODE MTZJ-T-77-4.3B (CP100:AEP, UK)		Q312	8-729-038-68	TRANSISTOR	KRC103S
D806	8-719-991-33	DIODE 1SS133T-77 (CP100:AEP, UK)		Q313	8-729-038-54	TRANSISTOR	KRA102S
D807	8-719-991-33	DIODE 1SS133T-77		Q330	8-729-038-68	TRANSISTOR	KRC103S
D808	8-719-991-33	DIODE 1SS133T-77		Q355	8-729-019-00	TRANSISTOR	KTC2026
D811	8-719-991-33	DIODE 1SS133T-77		Q601	8-729-202-56	TRANSISTOR	2SA950-Y-TPE2
D812	8-719-991-33	DIODE 1SS133T-77		Q602	8-729-038-67	TRANSISTOR	KRC102S
D813	8-719-988-61	DIODE 1SS355TE-17		Q603	8-729-038-67	TRANSISTOR	KRC102S
< IC >				Q604	8-729-202-56	TRANSISTOR	2SA950-Y-TPE2
IC101	8-759-584-38	IC TDA7296		Q605	8-729-038-67	TRANSISTOR	KRC102S
IC201	8-759-584-38	IC TDA7296		Q606	8-729-038-67	TRANSISTOR	KRC102S
IC301	8-759-646-52	IC KIA7805API		Q607	8-729-801-84	TRANSISTOR	2SB1013-TP-34
IC302	8-759-584-40	IC KA7908		Q608	8-729-801-84	TRANSISTOR	2SB1013-TP-34
IC304	8-759-646-54	IC KIA7808API		Q609	8-729-038-67	TRANSISTOR	KRC102S
IC306	8-759-646-54	IC KIA7808API		Q661	8-729-040-76	TRANSISTOR	KTA1273-Y-AT
IC320	8-759-584-65	IC KA3082		Q662	8-729-038-67	TRANSISTOR	KRC102S
IC321	8-749-016-00	IC HVE0024		Q801	8-729-038-67	TRANSISTOR	KRC102S
IC323	6-700-261-01	IC BD3861FS		Q802	8-729-038-67	TRANSISTOR	KRC102S
IC324	8-759-359-49	IC NJM3414AV (TE2)		Q803	8-729-038-67	TRANSISTOR	KRC102S
IC801	8-752-923-58	IC CXP83124A-048Q		Q804	8-729-038-67	TRANSISTOR	KRC102S
IC803	8-759-584-64	IC BMR0301H		Q805	8-729-038-67	TRANSISTOR	KRC102S
IC804	8-759-557-36	IC BU1924F-E2 (CP100:AEP, UK)		Q806	8-729-038-67	TRANSISTOR	KRC102S
				Q807	8-729-038-67	TRANSISTOR	KRC102S
				Q808	8-729-038-67	TRANSISTOR	KRC102S

HCD-CP100/CP100K

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
Q809	8-729-038-67	TRANSISTOR	KRC102S			R240	1-216-817-11	METAL CHIP	470	5%	1/16W
Q810	8-729-038-67	TRANSISTOR	KRC102S			R241	1-216-837-11	METAL CHIP	22K	5%	1/16W
Q811	8-729-038-67	TRANSISTOR	KRC102S			R242	1-216-841-11	METAL CHIP	47K	5%	1/16W
Q812	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R		(CP100: AEP, UK)	R243	1-216-845-11	METAL CHIP	100K	5%	1/16W
Q813	8-729-038-67	TRANSISTOR	KRC102S			R245	1-249-389-11	CARBON	4.7	5%	1/4W
Q815	8-729-920-31	TRANSISTOR	DTC343TK-T-146			R260	1-216-806-11	RES-CHIP	56	5%	1/16W
Q816	8-729-920-31	TRANSISTOR	DTC343TK-T-146			R304	1-216-809-11	METAL CHIP	100	5%	1/16W
Q817	8-729-920-31	TRANSISTOR	DTC343TK-T-146			R305	1-216-809-11	METAL CHIP	100	5%	1/16W
Q818	8-729-920-31	TRANSISTOR	DTC343TK-T-146			R307	1-216-833-11	METAL CHIP	10K	5%	1/16W
Q890	8-759-068-54	TRANSISTOR	KRA102S			R308	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
Q891	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R			R309	1-216-797-11	METAL CHIP	10	5%	1/16W
< RESISTOR >						R310	1-216-809-11	METAL CHIP	100	5%	1/16W
R101	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R311	1-216-809-11	METAL CHIP	100	5%	1/16W
R102	1-216-821-11	METAL CHIP	1K	5%	1/16W	R312	1-249-413-11	CARBON	470	5%	1/4W
R103	1-216-831-11	METAL CHIP	6.8K	5%	1/16W	R313	1-249-413-11	CARBON	470	5%	1/4W
R103	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R314	1-249-413-11	CARBON	470	5%	1/4W
(CP100: US, CND, EA, SP)						R317	1-216-841-11	METAL CHIP	47K	5%	1/16W
(CP100: AEP, UK, TH, E, MX, AR, AUS/CP100K)						R318	1-216-841-11	METAL CHIP	47K	5%	1/16W
R104	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R320	1-216-851-11	METAL CHIP	330K	5%	1/16W
R109	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R323	1-216-864-11	METAL CHIP	0	5%	1/16W
R110	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	R340	1-247-807-31	CARBON	100	5%	1/4W
R113	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R350	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R114	1-216-839-11	METAL CHIP	33K	5%	1/16W	R351	1-216-829-11	METAL CHIP	4.7K	5%	1/4W
R115	1-216-864-11	METAL CHIP	0	5%	1/16W	R601	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R116	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R602	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R117	1-216-830-11	METAL CHIP	5.6K	5%	1/16W	R603	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R118	1-216-821-11	METAL CHIP	1K	5%	1/16W	R604	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R119	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R605	1-249-407-11	CARBON	150	5%	1/4W
R130	1-216-817-11	METAL CHIP	470	5%	1/16W	R606	1-216-841-11	METAL CHIP	47K	5%	1/16W
R131	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R607	1-216-841-11	METAL CHIP	47K	5%	1/16W
R132	1-216-841-11	METAL CHIP	47K	5%	1/16W	R608	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R140	1-216-817-11	METAL CHIP	470	5%	1/16W	R609	1-249-401-11	CARBON	47	5%	1/4W
R141	1-216-837-11	METAL CHIP	22K	5%	1/16W	R610	1-216-843-11	METAL CHIP	68K	5%	1/16W
R142	1-216-841-11	METAL CHIP	47K	5%	1/16W	R611	1-216-845-11	METAL CHIP	100K	5%	1/16W
R143	1-216-845-11	METAL CHIP	100K	5%	1/16W	R612	1-216-821-11	METAL CHIP	1K	5%	1/16W
R144	1-249-389-11	CARBON	4.7	5%	1/4W	R613	1-216-821-11	METAL CHIP	1K	5%	1/16W
R160	1-216-806-11	RES-CHIP	56	5%	1/16W	R614	1-216-821-11	METAL CHIP	1K	5%	1/16W
R201	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R615	1-216-821-11	METAL CHIP	1K	5%	1/16W
R202	1-216-821-11	METAL CHIP	1K	5%	1/16W	R616	1-216-821-11	METAL CHIP	1K	5%	1/16W
R203	1-216-831-11	METAL CHIP	6.8K	5%	1/16W	R617	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R203	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R618	1-216-853-11	METAL CHIP	470K	5%	1/16W
(CP100: US, CND, EA, SP)						R619	1-216-845-11	METAL CHIP	100K	5%	1/16W
(CP100: AEP, UK, TH, E, MX, AR, AUS/CP100K)						R620	1-216-821-11	METAL CHIP	1K	5%	1/16W
R204	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	(CP100: AEP, UK)					
R209	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	(CP100: AEP, UK)					
R210	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	(CP100: AEP, UK)					
R213	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R621	1-216-814-11	METAL CHIP	270	5%	1/16W
R214	1-216-839-11	METAL CHIP	33K	5%	1/16W	(CP100: AEP, UK)					
R215	1-216-864-11	METAL CHIP	0	5%	1/16W	R622	1-216-841-11	METAL CHIP	47K	5%	1/16W
R216	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	(CP100: AEP, UK)					
R217	1-216-830-11	METAL CHIP	5.6K	5%	1/16W	R623	1-216-843-11	METAL CHIP	68K	5%	1/16W
R218	1-216-821-11	METAL CHIP	1K	5%	1/16W	(CP100: AEP, UK)					
R219	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R624	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R230	1-216-817-11	METAL CHIP	470	5%	1/16W	R626	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R231	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R627	1-247-804-11	CARBON	75	5%	1/4W
R232	1-216-841-11	METAL CHIP	47K	5%	1/16W	R628	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
						R629	1-216-841-11	METAL CHIP	47K	5%	1/16W
						R800	1-216-821-11	METAL CHIP	1K	5%	1/16W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R801	1-216-821-11	METAL CHIP	1K	5%	1/16W	R853	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
						R854	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R802	1-216-821-11	METAL CHIP	1K	5%	1/16W	R855	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R803	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R804	1-216-821-11	METAL CHIP	1K	5%	1/16W	R856	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R805	1-216-821-11	METAL CHIP	1K	5%	1/16W	R857	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R806	1-216-821-11	METAL CHIP	1K	5%	1/16W	R858	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
						R859	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R807	1-216-821-11	METAL CHIP	1K	5%	1/16W	R860	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R808	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R809	1-216-821-11	METAL CHIP	1K	5%	1/16W	R861	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R810	1-216-821-11	METAL CHIP	1K	5%	1/16W	R862	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R811	1-216-821-11	METAL CHIP	1K	5%	1/16W	R863	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
						R864	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R812	1-216-821-11	METAL CHIP	1K	5%	1/16W	R865	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R813	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R814	1-216-821-11	METAL CHIP	1K	5%	1/16W	R866	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R815	1-216-821-11	METAL CHIP	1K	5%	1/16W	R867	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R816	1-216-821-11	METAL CHIP	1K	5%	1/16W	R868	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
						R869	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R817	1-216-821-11	METAL CHIP	1K	5%	1/16W	R870	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R818	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R819	1-216-821-11	METAL CHIP	1K	5%	1/16W	R871	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R820	1-216-821-11	METAL CHIP	1K	5%	1/16W	R872	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R821	1-216-821-11	METAL CHIP	1K	5%	1/16W	R873	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
						R874	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R822	1-216-821-11	METAL CHIP	1K	5%	1/16W	R875	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R823	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R824	1-216-821-11	METAL CHIP	1K	5%	1/16W	R876	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R825	1-216-809-11	METAL CHIP	100	5%	1/16W	R877	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R826	1-216-821-11	METAL CHIP	1K	5%	1/16W	R878	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
						R879	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R827	1-216-821-11	METAL CHIP	1K	5%	1/16W	R880	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R828	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R829	1-216-821-11	METAL CHIP	1K	5%	1/16W	R881	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R830	1-216-821-11	METAL CHIP	1K	5%	1/16W	R882	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R831	1-216-821-11	METAL CHIP	1K	5%	1/16W	R883	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
						R884	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R832	1-216-821-11	METAL CHIP	1K	5%	1/16W	R885	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R833	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R834	1-216-821-11	METAL CHIP	1K	5%	1/16W	R886	1-216-821-11	METAL CHIP	1K	5%	1/16W
R835	1-216-821-11	METAL CHIP	1K	5%	1/16W	R887	1-216-821-11	METAL CHIP	1K	5%	1/16W
R836	1-216-821-11	METAL CHIP	1K	5%	1/16W	R888	1-216-821-11	METAL CHIP	1K	5%	1/16W
						R890	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R837	1-216-821-11	METAL CHIP	1K	5%	1/16W	R891	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R838	1-216-817-11	METAL CHIP	470	5%	1/16W						
R840	1-216-841-11	METAL CHIP	47K	5%	1/16W	R892	1-216-817-11	METAL CHIP	470	5%	1/16W
R841	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	R894	1-216-821-11	METAL CHIP	1K	5%	1/16W
				(CP100: E, MX, AR)		R895	1-216-801-11	METAL CHIP	22	5%	1/16W
R841	1-216-819-11	METAL CHIP	680	5%	1/16W	R896	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
		(CP100: SP, AUS, TW, HK, TH/CP100K)				R897	1-216-821-11	METAL CHIP	1K	5%	1/16W
R841	1-216-823-11	METAL CHIP	1.5K	5%	1/16W	R898	1-216-821-11	METAL CHIP	1K	5%	1/16W
				(CP100: AEP, UK)		R899	1-216-821-11	METAL CHIP	1K	5%	1/16W
R841	1-216-864-11	METAL CHIP	0	(CP100: US, CND)							
R841	1-216-829-11	METAL CHIP	4.7K	5%	1/16W			< TERMINAL BOARD/JACK >			
				(CP100: EA)							
R842	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	SJ301	1-694-598-11	TERMINAL BOARD (4P)			
R843	1-216-845-11	METAL CHIP	100K	5%	1/16W			(SPEAKER IMPEDANCE USE 6-16 Ω)			
R845	1-216-845-11	METAL CHIP	100K	5%	1/16W	SJ302	1-815-045-11	JACK, PIN 2P (AUDIO IN MD (VIDEO))			
R846	1-216-837-11	METAL CHIP	22K	5%	1/16W			< GROUND TERMINAL BOARD >			
R847	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R848	1-216-833-11	METAL CHIP	10K	5%	1/16W	TH1	1-537-770-21	TERMINAL BOARD, GROUND			
R849	1-216-833-11	METAL CHIP	10K	5%	1/16W	TH2	1-537-770-21	TERMINAL BOARD, GROUND			
R850	1-216-829-11	METAL CHIP	4.7K	5%	1/16W						
R851	1-216-829-11	METAL CHIP	4.7K	5%	1/16W						
R852	1-216-829-11	METAL CHIP	4.7K	5%	1/16W						

HCD-CP100/CP100K

MAIN	POWER
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Ref. No.	Part No.	Description	Remark
< TUNER UNIT >			
TU1	A-4476-412-A	TUNER UNIT (TCB-022N) (EXCEPT CP100: AEP, UK, AUS)	
TU1	A-4476-414-A	TUNER UNIT (TCB-022) (CP100: AEP, UK, AUS)	
< VIBRATOR >			
X801	1-767-184-11	VIBRATOR, CERAMIC (4.19MHz)	
X802	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)	
X803	1-579-242-41	VIBRATOR, CRYSTAL (4.332MHz) (CP100: AEP, UK)	

	A-4476-362-A	POWER BOARD, COMPLETE (CP100: AEP, UK, AUS)	
	A-4725-822-A	POWER BOARD, COMPLETE (CP100: US, CND)	
	A-4725-824-A	POWER BOARD, COMPLETE (CP100: E, EA, SP)	
	A-4725-828-A	POWER BOARD, COMPLETE (CP100: AR)	
	A-4725-830-A	POWER BOARD, COMPLETE (CP100: MX)	
	A-4726-172-A	POWER BOARD, COMPLETE (CP100: TH/CP100K)	

< CAPACITOR >			
C902	1-101-005-00	CERAMIC 22000PF	50V
C903	1-101-005-00	CERAMIC 22000PF	50V
C904	1-101-005-00	CERAMIC 22000PF	50V
C905	1-101-005-00	CERAMIC 22000PF	50V
C906	1-161-494-00	CERAMIC 0.022uF	25V
C907	1-161-494-00	CERAMIC 0.022uF	25V
C908	1-161-494-00	CERAMIC 0.022uF	25V
C909	1-161-494-00	CERAMIC 0.022uF	25V
C910	1-161-494-00	CERAMIC 0.022uF	25V
C911	1-104-664-11	ELECT 47uF 20%	16V
C913	1-161-494-00	CERAMIC 0.022uF	25V
C914	1-161-494-00	CERAMIC 0.022uF	25V
C915	1-161-494-00	CERAMIC 0.022uF	25V
C916	1-161-494-00	CERAMIC 0.022uF	25V
C917	1-104-666-11	ELECT 220uF 20%	10V
C918	1-124-261-00	ELECT 10uF 20%	50V
C920	1-104-666-11	ELECT 220uF 20%	16V
< CONNECTOR >			
CN901	1-564-321-00	PIN, CONNECTOR 2P	
CN902	1-766-282-11	PIN, CONNECTOR (PC BOARD) 9P	
< DIODE >			
D902	8-719-902-17	DIODE 1N5401	
D903	8-719-902-17	DIODE 1N5401	
D904	8-719-902-17	DIODE 1N5401	
D905	8-719-902-17	DIODE 1N5401	
D906	8-719-046-07	DIODE 2A02M	
D907	8-719-046-07	DIODE 2A02M	
D908	8-719-046-07	DIODE 2A02M	
D909	8-719-046-07	DIODE 2A02M	
D910	8-719-991-33	DIODE 1SS133T-77	
D911	8-719-991-33	DIODE 1SS133T-77	

Ref. No.	Part No.	Description	Remark
D912	8-719-991-33	DIODE 1SS133T-77	
D913	8-719-991-33	DIODE 1SS133T-77	
D915	8-719-109-93	DIODE MTZJ-T-77-6.2B	
D917	8-719-991-33	DIODE 1SS133T-77	
D918	8-719-109-93	DIODE MTZJ-T-77-6.2B	
< FUSE >			
△ F901	1-576-374-11	FUSE, GLASS TUBE (1.25A/125V) (CP100: US, CND)	
△ F901	1-533-464-11	FUSE, GLASS TUBE (DIA. 5) (0.8A/250V) (CP100: AEP, UK, MX, TH, AUS/CP100K)	
△ F902	1-576-466-11	FUSE (SMD) (500mA/63V) (CP100: E, EA, SP)	
△ F903	1-533-468-11	FUSE, GLASS TUBE (DIA. 5) (2A/250V)	
△ F904	1-533-468-11	FUSE, GLASS TUBE (DIA. 5) (2A/250V)	
△ F905	1-533-464-11	FUSE, GLASS TUBE (DIA. 5) (0.8A/250V) (CP100: E, EA, SP)	
< FUSE HOLDER >			
FH901	1-533-313-11	HOLDER, FUSE (CP100: E, EA, SP)	
FH902	1-533-313-11	HOLDER, FUSE (CP100: E, EA, SP)	
FH903	1-533-313-11	HOLDER, FUSE (CP100: E, EA, SP)	
FH904	1-533-313-11	HOLDER, FUSE (CP100: E, EA, SP)	
FH905	1-533-313-11	HOLDER, FUSE	
FH906	1-533-313-11	HOLDER, FUSE	
FH907	1-533-313-11	HOLDER, FUSE	
FH908	1-533-313-11	HOLDER, FUSE	
FH909	1-533-313-11	HOLDER, FUSE (EXCEPT CP100: E, EA, SP)	
FH910	1-533-313-11	HOLDER, FUSE (EXCEPT CP100: E, EA, SP)	
< LINE FILTER >			
△ LF901	1-424-499-11	TRANSFORMER, LINE FILTER (CP100: US, CND)	
< TRANSISTOR >			
Q901	8-729-028-54	TRANSISTOR KTC3205-Y-AT	
Q902	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
< RESISTOR >			
R902	1-249-417-11	CARBON 1K 5% 1/4W	
R904	1-249-425-11	CARBON 4.7K 5% 1/4W	
R905	1-249-437-11	CARBON 47K 5% 1/4W	
△ R909	1-219-237-11	CARBON 3.3M 20% 1/2W (CP100: US, CND)	
< RELAY >			
△ RY901	1-755-332-11	RELAY	
< SWITCH >			
△ S901	1-786-152-11	SWITCH, POWER (VOLTAGE SELECTOR) (CP100: E, EA, SP)	
< TRANSFORMER >			
△ T901	1-437-251-11	TRANSFORMER, POWER (CP100: AEP, UK, TH, AUS/CP100K)	
△ T901	1-437-252-11	TRANSFORMER, POWER (CP100: US, CND, MX)	
△ T901	1-437-253-11	TRANSFORMER, POWER (CP100: E, EA, SP, AR, TW, BR, HK)	

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						POWER		PRISM		SWITCH		TC		
Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark				
△ T902	1-437-250-11	TRANSFORMER, POWER (CP100: E, EA, SP, AR, TW, BR, HK)					R651	1-216-836-11	METAL CHIP	18K	5%	1/16W		
△ T902	1-437-249-11	TRANSFORMER, POWER (CP100: US, CND, MX)					R652	1-216-831-11	METAL CHIP	6.8K	5%	1/16W		
△ T902	1-437-248-11	TRANSFORMER, POWER (CP100: AEP, UK, TH, AUS/CP100K)					R653	1-216-827-11	METAL CHIP	3.3K	5%	1/16W		
*****						R654	1-216-824-11	METAL CHIP	1.8K	5%	1/16W			
	1-680-959-11	PRISM BOARD *****					R655	1-216-822-11	METAL CHIP	1.2K	5%	1/16W		
	< CONNECTOR >					R656	1-216-820-11	METAL CHIP	820	5%	1/16W			
CN806	1-506-481-11	PIN, CONNECTOR 2P					R657	1-216-819-11	METAL CHIP	680	5%	1/16W		
*****						R667	1-216-845-11	METAL CHIP	100K	5%	1/16W			
	A-4476-358-A	SWITCH BOARD, COMPLETE (CP100: US, CND, AEP, UK, E, EA, SP, MX, AR, AUS)					R668	1-216-845-11	METAL CHIP	100K	5%	1/16W		
	A-4726-170-A	SWITCH BOARD, COMPLETE (CP100: TH/CP100K)					R669	1-216-845-11	METAL CHIP	100K	5%	1/16W		
*****						R670	1-216-845-11	METAL CHIP	100K	5%	1/16W			
	< CAPACITOR >					R671	1-216-845-11	METAL CHIP	100K	5%	1/16W			
C612	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	R672	1-216-845-11	METAL CHIP	100K	5%	1/16W			
C613	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	R673	1-216-845-11	METAL CHIP	100K	5%	1/16W			
C614	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	R674	1-216-845-11	METAL CHIP	100K	5%	1/16W			
C615	1-124-259-11	ELECT	4.7uF	20%	16V	R675	1-216-829-11	METAL CHIP	4.7K	5%	1/16W			
	< CONNECTOR >					R676	1-216-065-00	RES-CHIP	4.7K	5%	1/10W			
CN805	1-794-393-11	SOCKET, CONNECTOR 23P					R677	1-216-818-11	METAL CHIP	560	5%	1/16W		
* CN807	1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P					R678	1-216-817-11	METAL CHIP	470	5%	1/16W		
* CN809	1-568-945-11	PIN, CONNECTOR 7P					< VARIABLE RESISTOR >							
	< LED >					RV801	1-473-392-11	ENCODER, ROTARY (VOLUME)						
D851	8-719-074-42	LED SLR325VR-T31 (STANDBY)					RV802	1-418-859-11	ENCODER, ROTARY (TREBLE)					
D852	8-719-084-70	LED SY3318-V-S1-T (CD)					RV803	1-418-859-11	ENCODER, ROTARY (BASS)					
D853	8-719-084-70	LED SY3318-V-S1-T (CD)					RV804	1-476-704-11	ENCODER, ROTARY (FUNCTION)					
D856	8-719-084-70	LED SY3318-V-S1-T (TUNER)					< SWITCH >							
D857	8-719-084-70	LED SY3318-V-S1-T (TUNER)					S801	1-571-760-11	SWITCH, KEY BOARD (I/⏻)					
D858	8-719-084-70	LED SY3318-V-S1-T (DSG)					S802	1-571-760-11	SWITCH, KEY BOARD (CD ►►)					
	< IC >					S803	1-571-760-11	SWITCH, KEY BOARD (CD ■)						
IC802	8-759-827-70	IC NJL64H400A-1					S804	1-571-760-11	SWITCH, KEY BOARD (CD ►►►►)					
	< SHORT >					S805	1-571-760-11	SWITCH, KEY BOARD (CD.◀◀◀◀)						
JR801	1-216-864-11	SHORT	0			S806	1-571-760-11	SWITCH, KEY BOARD (PLAY MODE)						
JR802	1-216-864-11	SHORT	0			S807	1-571-760-11	SWITCH, KEY BOARD (REPEAT)						
JR803	1-216-864-11	SHORT	0			S808	1-571-760-11	SWITCH, KEY BOARD (EJECT▲)						
	< TRANSISTOR >					S815	1-571-760-11	SWITCH, KEY BOARD (TUNING+)						
Q851	8-729-038-67	TRANSISTOR	KRC102S			S816	1-571-760-11	SWITCH, KEY BOARD (BAND)						
Q852	8-729-038-67	TRANSISTOR	KRC102S			S818	1-571-760-11	SWITCH, KEY BOARD (DSG)						
Q854	8-729-038-67	TRANSISTOR	KRC102S			S819	1-571-760-11	SWITCH, KEY BOARD (TUNING-)						
Q855	8-729-038-67	TRANSISTOR	KRC102S			S820	1-571-760-11	SWITCH, KEY BOARD (TUNING MODE)						
Q856	8-729-038-67	TRANSISTOR	KRC102S			*****								
	< RESISTOR >					A-4725-838-A	TC BOARD, COMPLETE (CP100: US, CND, AEP, UK, E, EA, SP, MX, AR, AUS)							
Q857	8-729-038-67	TRANSISTOR	KRC102S			A-4726-167-A TC BOARD, COMPLETE (CP100: TH/CP100K) *****								
						1-791-771-12	CABLE, FLAT (FMT-001)							
R600	1-216-829-11	METAL CHIP	4.7K			5%	1/16W							

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HCD-CP100/CP100K

TC

TC SWITCH

Ref. No.	Part No.	Description	Remark		
< CAPACITOR >					
C402	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C403	1-104-509-11	CERAMIC CHIP	0.018uF	10%	16V
C404	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C405	1-126-934-11	ELECT	220uF	20%	10V
C408	1-104-664-11	ELECT	47uF	20%	10V
C409	1-126-963-11	ELECT	4.7uF	20%	50V
C410	1-126-963-11	ELECT	4.7uF	20%	50V
C412	1-126-961-11	ELECT	2.2uF	20%	50V
C414	1-104-664-11	ELECT	47uF	20%	10V
C415	1-104-664-11	ELECT	47uF	20%	10V
C416	1-126-963-11	ELECT	4.7uF	20%	50V
C417	1-126-963-11	ELECT	4.7uF	20%	50V
C422	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C423	1-126-960-11	ELECT	1uF	20%	50V
C424	1-126-960-11	ELECT	1uF	20%	50V
C425	1-126-934-11	ELECT	220uF	20%	16V
C428	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C429	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V
C430	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V
C431	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C432	1-136-967-11	MYLAR	0.012uF	5%	50V
C433	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C434	1-104-664-11	ELECT	47uF	20%	10V
C435	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C436	1-104-509-11	CERAMIC CHIP	0.018uF	10%	16V
C437	1-126-934-11	ELECT	220uF	20%	10V
C438	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C439	1-126-935-11	ELECT	470uF	20%	16V
C440	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C450	1-126-963-11	ELECT	4.7uF	20%	50V
< CONNECTOR >					
* CN301	1-569-366-11	SOCKET, CONNECTOR 18P			
CN302	1-569-927-11	SOCKET, CONNECTOR 9P			
* CN303	1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P			
< DIODE >					
D401	8-719-975-40	DIODE RB411D-T146			
< IC >					
IC401	8-759-242-58	IC TA8189N			
IC402	8-759-508-69	IC BA3126N			
< TRANSISTOR >					
Q401	8-729-212-02	TRANSISTOR	KTC3203Y-AT		
Q402	8-729-037-02	TRANSISTOR	KTA1266Y-AT		
Q403	8-729-038-67	TRANSISTOR	KRC102S		
Q406	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q407	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q413	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q414	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
< RESISTOR >					
R399	1-216-821-11	METAL CHIP	1K	5%	1/16W
R400	1-216-833-11	METAL CHIP	10K	5%	1/16W
R403	1-216-805-11	METAL CHIP	47	5%	1/16W

Ref. No.	Part No.	Description	Remark		
R405	1-216-809-11	METAL CHIP	100	5%	1/16W
R406	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R407	1-216-848-11	METAL CHIP	180K	5%	1/16W
R408	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R409	1-216-809-11	METAL CHIP	100	5%	1/16W
R410	1-216-848-11	METAL CHIP	180K	5%	1/16W
R411	1-216-845-11	METAL CHIP	100K	5%	1/16W
R412	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R413	1-216-851-11	METAL CHIP	330K	5%	1/16W
R414	1-216-833-11	METAL CHIP	10K	5%	1/16W
R415	1-216-833-11	METAL CHIP	10K	5%	1/16W
R416	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R417	1-216-805-11	METAL CHIP	47	5%	1/16W
R418	1-216-845-11	METAL CHIP	100K	5%	1/16W
R419	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R420	1-216-851-11	METAL CHIP	330K	5%	1/16W
R421	1-216-857-11	METAL CHIP	1M	5%	1/16W
R422	1-216-833-11	METAL CHIP	10K	5%	1/16W
R423	1-216-837-11	METAL CHIP	22K	5%	1/16W
R424	1-216-841-11	METAL CHIP	47K	5%	1/16W
R425	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R426	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R427	1-216-809-11	METAL CHIP	100	5%	1/16W
R428	1-216-835-11	METAL CHIP	15K	5%	1/16W
R429	1-216-835-11	METAL CHIP	15K	5%	1/16W
R430	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R431	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R432	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R433	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R434	1-216-803-11	METAL CHIP	33	5%	1/16W
R435	1-216-833-11	METAL CHIP	10K	5%	1/16W
R436	1-216-797-11	METAL CHIP	10	5%	1/16W
R437	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R438	1-216-841-11	METAL CHIP	47K	5%	1/16W
R439	1-216-833-11	METAL CHIP	10K	5%	1/16W
R440	1-218-446-11	METAL CHIP	1	5%	1/16W
R441	1-216-821-11	METAL CHIP	1K	5%	1/16W
R442	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
< TRANSFORMER/COIL >					
T401	1-433-372-11	TRANSFORMER, BIAS OSCILLATION			
T402	1-419-080-11	COIL			
T403	1-419-080-11	COIL			

	1-680-955-11	TC SWITCH BOARD			

< CONNECTOR >					
CN808	1-766-280-11	PIN, CONNECTOR (PC BOARD) 7P			
< LED >					
D854	8-719-084-70	LED SY3318-V-S1-T (TAPE)			
D855	8-719-084-70	LED SY3318-V-S1-T (TAPE)			
D859	8-719-074-42	LED SLR325VR-T31 (CD SYNC)			

TC SWITCH

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< TRANSISTOR >				ACCESSORIES & PACKING MATERIALS	

Q853	8-729-038-67	TRANSISTOR	KRC102S				
		< RESISTOR >					
R659	1-216-829-11	METAL CHIP	4.7K 5% 1/16W				
R660	1-216-819-11	METAL CHIP	680 5% 1/16W				
R661	1-216-820-11	METAL CHIP	820 5% 1/16W				
R662	1-216-822-11	METAL CHIP	1.2K 5% 1/16W				
R663	1-216-824-11	METAL CHIP	1.8K 5% 1/16W				
R664	1-216-827-11	METAL CHIP	3.3K 5% 1/16W				
R665	1-216-831-11	METAL CHIP	6.8K 5% 1/16W				
R680	1-216-818-11	METAL CHIP	560 5% 1/16W				
R697	1-216-815-11	METAL CHIP	330 5% 1/16W				
R699	1-216-815-11	METAL CHIP	330 5% 1/16W				
		< SWITCH >					
S809	1-571-760-11	SWITCH, KEY BOARD (TAPE ◀▶)					
S810	1-571-760-11	SWITCH, KEY BOARD (TAPE ■)					
S811	1-571-760-11	SWITCH, KEY BOARD (TAPE ▶▶)					
S812	1-571-760-11	SWITCH, KEY BOARD (TAPE ◀◀)					
S813	1-571-760-11	SWITCH, KEY BOARD (TAPE ■■)					
S814	1-571-760-11	SWITCH, KEY BOARD (REC ●)					
S817	1-571-760-11	SWITCH, KEY BOARD (CD SYNC)					

		MISCELLANEOUS					

4	1-757-808-11	WIRE (FLAT TYPE) 18P					
5	1-757-807-11	WIRE (FLAT TYPE) 20P					
12	1-757-809-11	WIRE (FLAT TYPE) 12P					
13	1-757-806-11	WIRE (FLAT TYPE) 21P					
15	1-796-101-11	DECK MECHA					
61	1-757-805-11	WIRE (FLAT TYPE) 23P					
67	1-476-661-11	INDICATOR BLOCK, LED					
101	1-792-411-11	CABLE, FLEXIBLE FLAT (19 CORE)					
△ 105	1-556-091-00	CORD, POWER (CP100: TH/CP100K)					
△ 105	1-696-169-11	CORD, POWER (CP100: AEP, UK, EA, SP)					
△ 105	1-696-848-41	CORD, POWER (CP100: AUS)					
△ 105	1-775-789-91	CORD, POWER (CP100: E)					
△ 105	1-783-531-71	CORD, POWER (CP100: US, CND)					
△ 105	1-783-941-21	CORD, POWER (CP100: AR)					
△ 553	8-820-116-01	OPTICAL PICK-UP KSM-213DCP/Z-NP					
555	1-757-055-11	WIRE, PARALLEL (FFC) (16 CORE)					
M901	A-2004-893-A	MOTOR (LD) ASSY					

		HARDWARE LIST					

#2	7-685-245-19	SCREW +KTP 3X6 TYPE2 NON-SLIT					
#3	7-685-246-14	SCREW +KTP 3X8 TYPE2 NON-SLIT					
#4	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S					
#5	7-685-535-19	SCREW +BTP 2.6X10 TYPE2 N-S					
#6	7-685-546-14	SCREW +BTP 3X8 TYPE2 N-S					
#8	7-685-659-14	SCREW +BVTP 4X8 TYPE2 N-S					
#9	7-685-861-01	SCREW +BVTT 2.6X5 (S)					

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.

REVISION HISTORY

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

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