

HCD-NE3

SERVICE MANUAL

Ver 1.0 2004.03

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model



- HCD-NE3 is the amplifier, CD player, tape deck and tuner section in CMT-NE3.

CD Section	Model Name Using Similar Mechanism	NEW
	Base Unit Name	BU-K7BD80B
	Optical Pick-up Name	KSM-213EDP/C2NP
TAPE Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	CMAL5Z220A

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION: (US model)

With 6 ohm loads, both channels driven, from 120-10,000 Hz; rated 13 watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 milliwatts to rated output.

Main unit

Amplifier section

North American model:

Continuous RMS power output (reference):
15 + 15 W
(6 ohms at 1 kHz, 10% THD)

European model:

DIN power output (rated): 11 + 11 W (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
15 + 15W (6 ohms at 1 kHz, 10% THD)

Music power output (reference):

25 + 25 W

Other models:

The following measured at AC 230 V or AC 120 V, 50/60 Hz

DIN power output (rated): 11 + 11 W
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
15 + 15 W
(6 ohms at 1 kHz, 10% THD)

Inputs

MD (phono jacks): Sensitivity 450 mV, impedance 47 kilohms

Outputs

PHONES: Accepts headphones with an impedance of 8 ohms or more

SPEAKER:

Accepts impedance of 6 to 16 ohms.

CD player section

Laser

Semiconductor laser ($\lambda=780$ nm)

Emission duration: continuous

Frequency response: 20 Hz – 20 kHz

Wavelength: 780 – 790 nm

Tape deck section

Recording system

4-track 2-channel, stereo 50 – 13,000 Hz (± 3 dB), using Sony TYPE I cassettes

Frequency response

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range: 87.5 – 108.0 MHz

Antenna: FM lead antenna

Antenna terminals: 75 ohms unbalanced

Intermediate frequency: 10.7 MHz

AM tuner section

US, Canadian, Mexican and Argentina models:

530 – 1,710 kHz (with the tuning interval set at 10 kHz)

AEP and UK models: 531 – 1,710 kHz (with the tuning interval set at 9 kHz)

Other models: 531 – 1,602 kHz (with the tuning interval set at 9 kHz)

Dimensions (w/h/d): 220 V AC, 60 Hz

US, Canadian and Mexican models: 120 V AC, 60 Hz

AEP and UK models: 230 V AC, 50/60 Hz

Australian model: 230 – 240 V AC, 50/60 Hz

Argentina and Korean models: 220 V AC, 60 Hz

Taiwanese model: 120 V AC, 50/60 Hz

Saudi Arabian model: 120 – 127/220 V AC, 50/60 Hz

Other models: 110 – 120 V or 220 – 240 V AC, 50/60 Hz

Adjustable with voltage selector

Power consumption: 45 W

Dimensions (w/h/d): Approx. 164 x 230.5 x 263 mm incl. projecting parts and controls

Mass: Approx. 3.7 kg

Supplied accessories: Remote Commander (1) R6 (size AA) batteries (2)

AM loop antenna (1) FM lead antenna (1)

Design and specifications are subject to change without notice.

COMPACT DISC DECK RECEIVER

9-877-693-01

2004C05-1

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Sony Corporation

Home Audio Company

Published by Sony Engineering Corporation

SONY®

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.

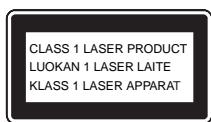
Flexible Circuit Board Repairing

- 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.

The following caution label is located inside the unit.



This appliance is classified as a CLASS 1 LASER product.

This label is located on the rear exterior.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

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.

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)

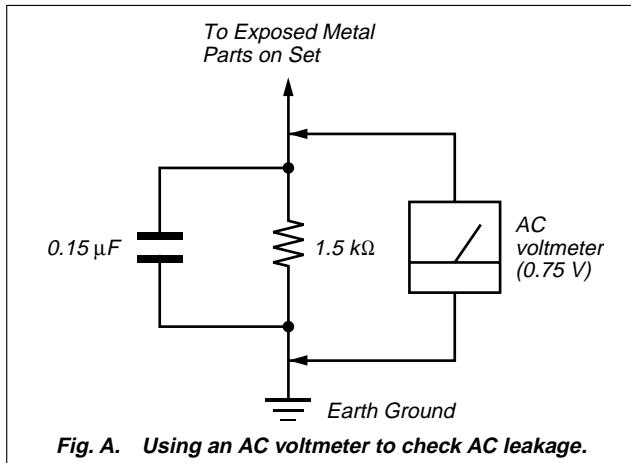


Fig. A. Using an AC voltmeter to check AC leakage.

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.

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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.

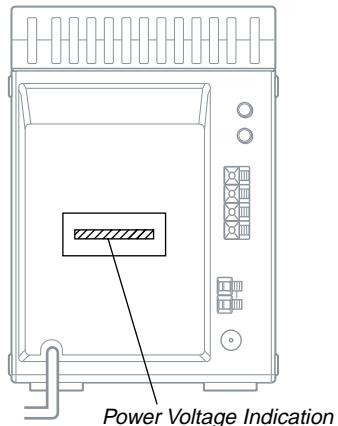
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

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 Cabinet –

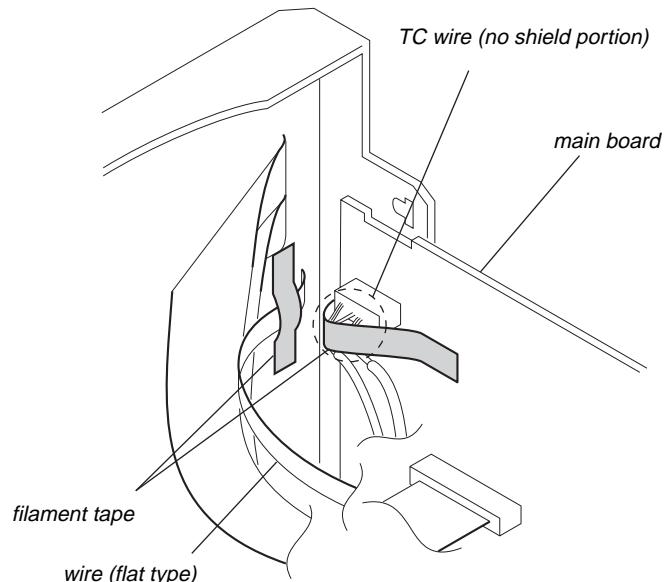


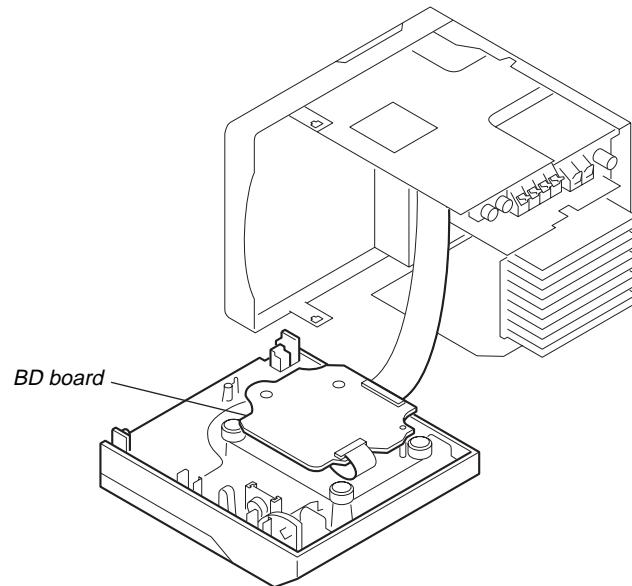
Power Voltage Indication

MODEL	Power Voltage Indication
US, Canadian, Mexican and models	AC: 120 V 60 Hz 45 W
AEP and UK models	AC: 230 V ~ 50/60 Hz 45 W
Australian model	AC: 230 – 240 ~ 50/60 Hz 45 W
Argentina and Korean models	AC: 220 V ~ 60 Hz 45 W
Taiwan model	AC: 120 V 50/60 Hz 45 W
Saudi Arabia model	AC: 120 – 127/220 V 50/60 Hz 45 W
Other models	AC: 110 – 120/220 – 240 V 50/60 Hz 45 W

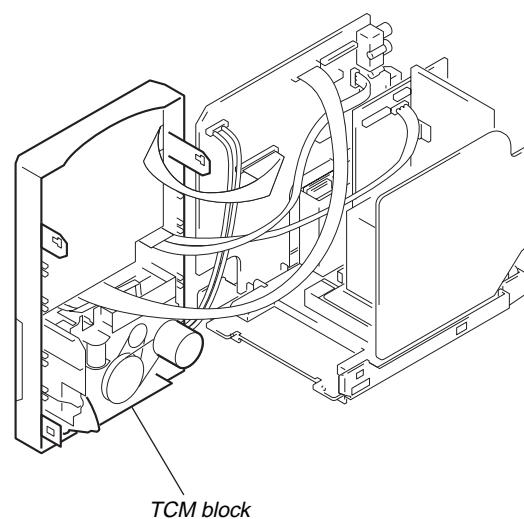
NOTE ON LEADING THE WIRE (FLAT TYPE)

- In order to separate wire (flat type) from no shield portion of TC wire, stick filament tapes, as shown in a figure.

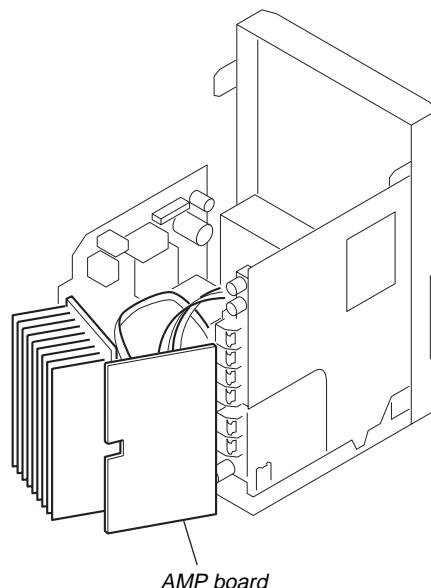


SERVICE POSITION
– BD board –

– TCM block –



– AMP board –



**SECTION 2
GENERAL**

This section is extracted from
instruction manual.

• LOCATION OF CONTROLS**Main unit****ALPHABETICAL ORDER****A – O**

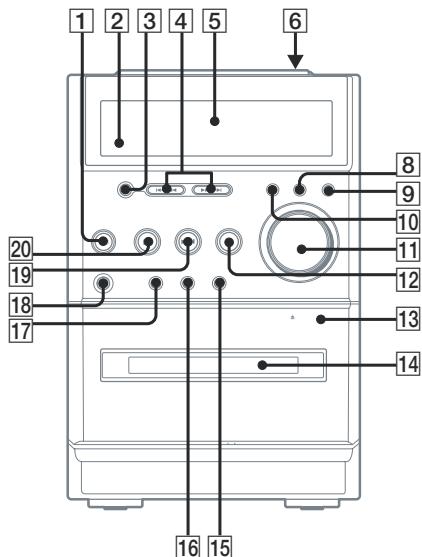
BASS/TREBLE [8]
Cassette compartment [14]
CD SYNCHRO [15]
DISPLAY [10]
Displaywindow [5]
DSGX [9]

P – Z

PHONES jack [18]
PLAY MODE [17]
Remote sensor [2]
TUNER/BAND [12]
TUNING +/- [4]
TUNING MODE [17]
VOLUME [11]

BUTTON DESCRIPTIONS

I/Ø (power) [1]
◀◀◀◀/▶▶▶▶ (skip back/
skip forward,rewind/fast
forward) [4]
■ (stop) [3]
● RECPAUSE/START [16]
CD/▶▶(play/pause) [19]
TAPE/▶▶(play) [20]
▲ PUSHOPEN/CLOSE (CD
open/close) [6]
▲ PUSHOPEN (tape open/close)
[13]



Remote control**ALPHABETICAL ORDER****A - O**

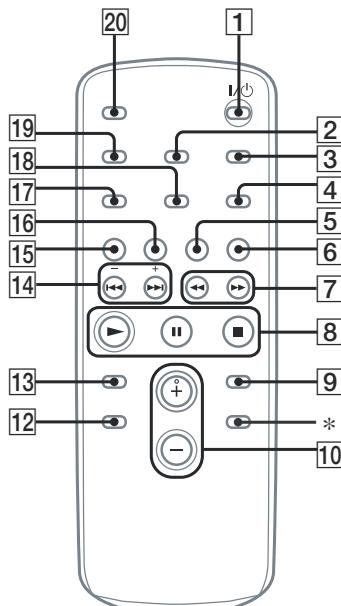
CD [16]
CLEAR [13]
CLOCK/TIMER SELECT [2]
CLOCK/TIMERS ET [3]
DISPLAY [19]
ENTER [9]
EQ [12]
FM MODE [4]
FUNCTION [6]

P - Z

PLAY MODE [18]
REPEAT [4]
SLEEP [20]
TAPE [15]
TUNER/BAND [5]
TUNER MEMORY [17]
TUNING MODE [18]
VOLUME +/- [10]

BUTTON DESCRIPTIONS

I/Ø (power) [1]
◀◀/▶▶ (rewind/fast forward) [7]
◀◀/▶▶ (go back/go forward) [14]
■ (stop) [8]
■ (pause) [8]
▶ (play) [8]
+/- (tuning) [14]

CMT-NE3

* Button does not function with this model.

Setting the clock

Use buttons on the remote for the operation.

- 1** Press I/Ø to turn on the system.
- 2** Press CLOCK/TIMER SET.
- 3** Press ▵◀/▶▶ repeatedly to set the hour.
- 4** Press ENTER.
- 5** Press ▵◀/▶▶ repeatedly to set the minute.
- 6** Press ENTER.

The clock starts working.

To adjust the clock

- 1** Press CLOCK/TIMER SET.
- 2** Press ▵◀/▶▶ until "CLOCK" appears, then press ENTER.
- 3** Do the same procedures as step 3 to 6 above.

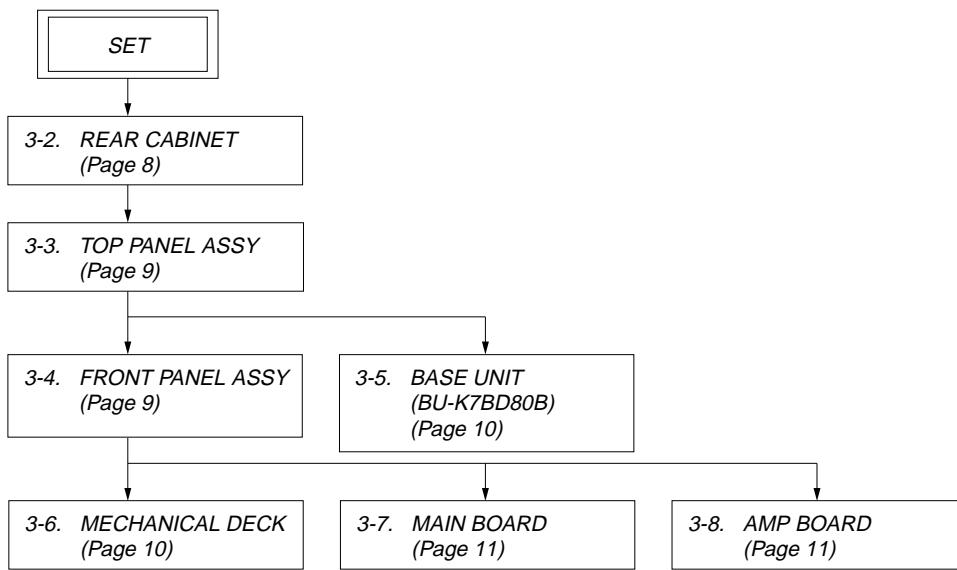
Note

The clock is not displayed in Power Saving Mode.

SECTION 3 DISASSEMBLY

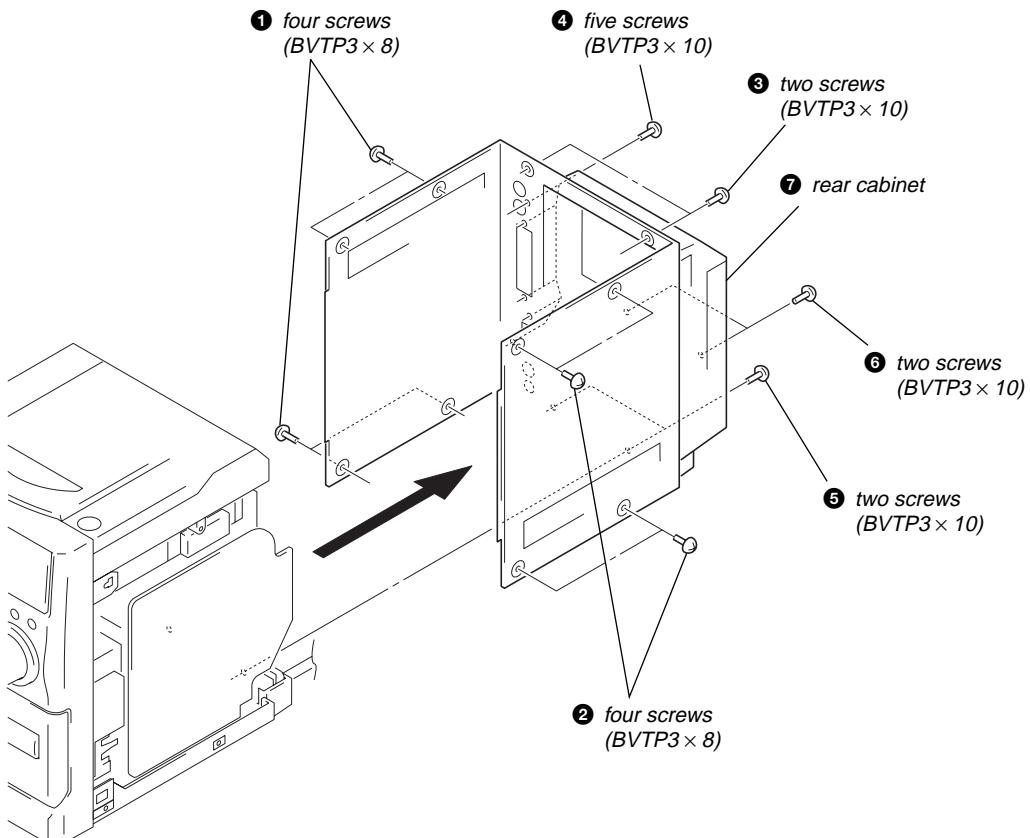
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

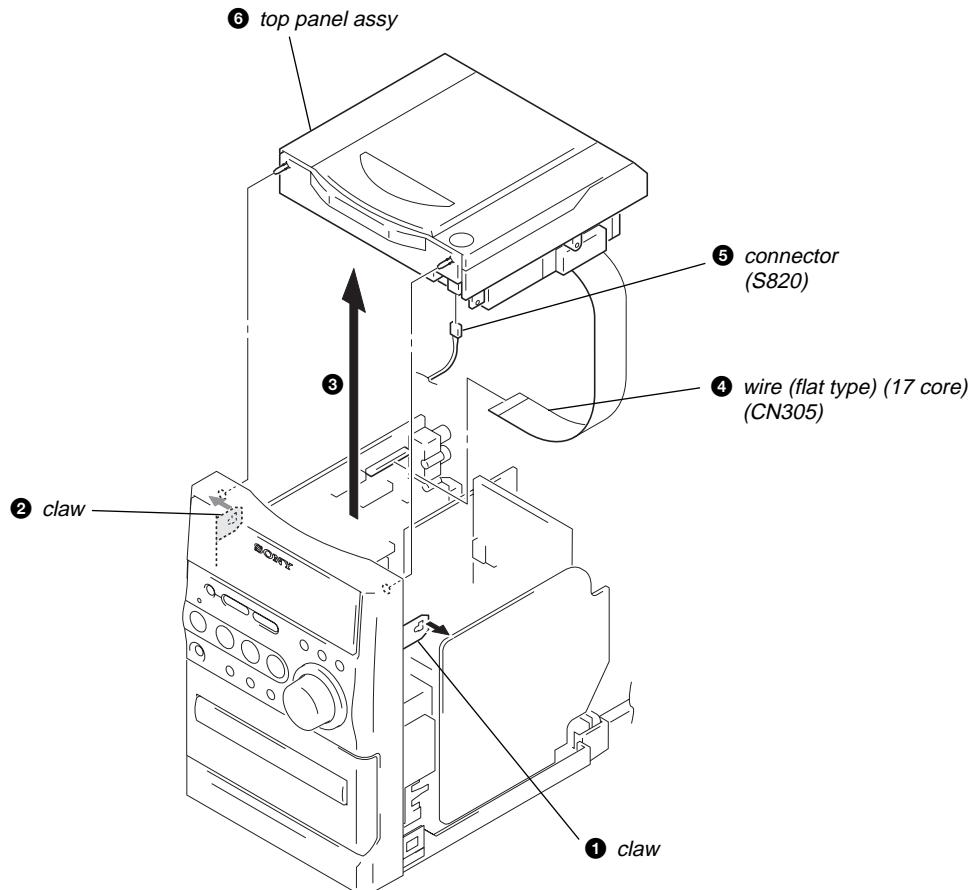


Note: Follow the disassembly procedure in the numerical order given.

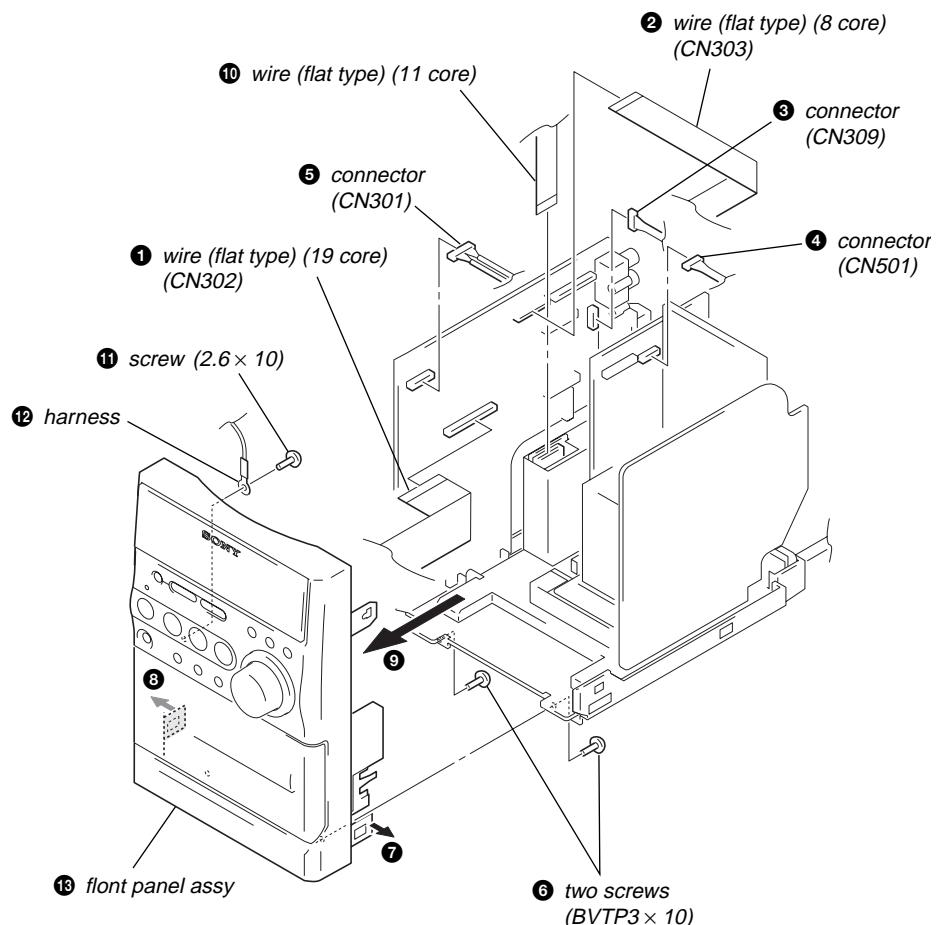
3-2. REAR CABINET



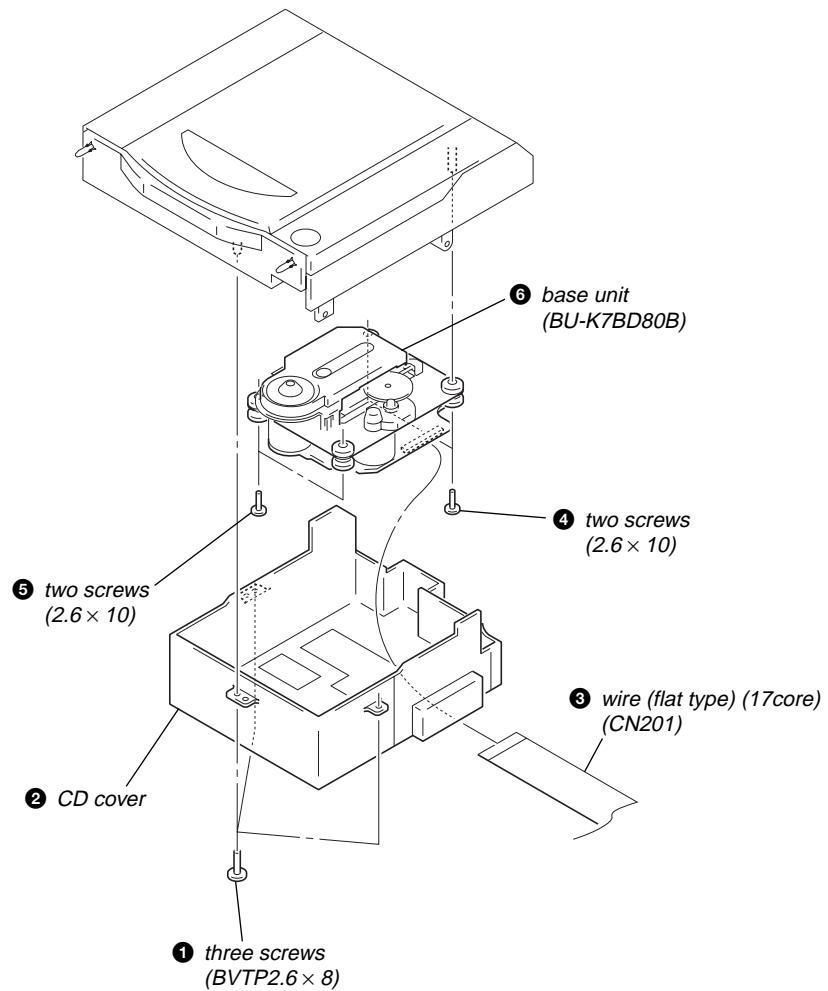
3-3. TOP PANEL ASSY



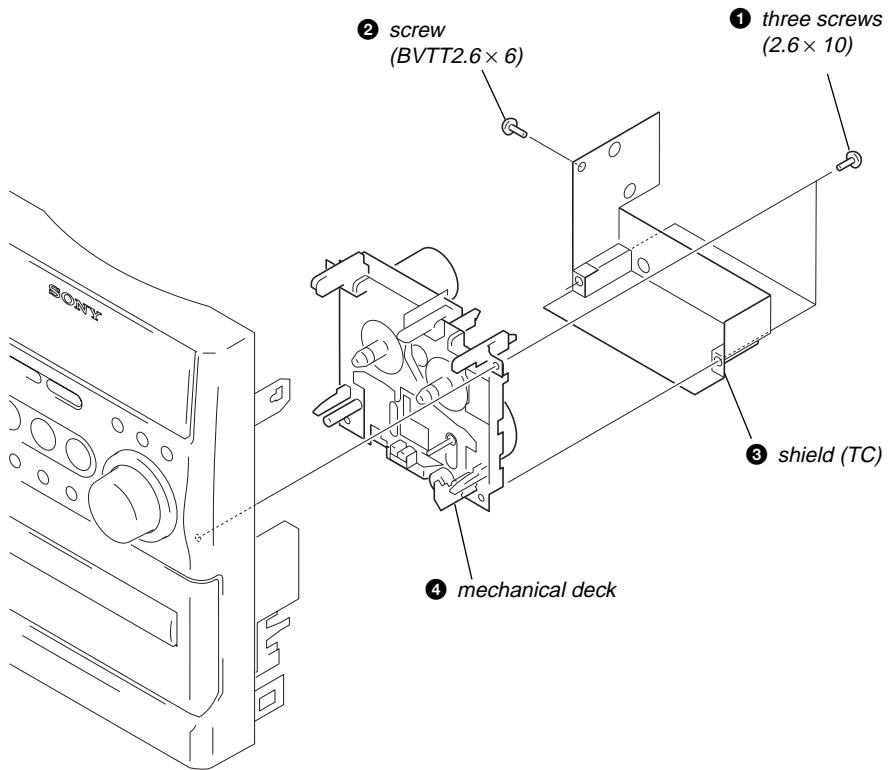
3-4. FRONT PANEL ASSY



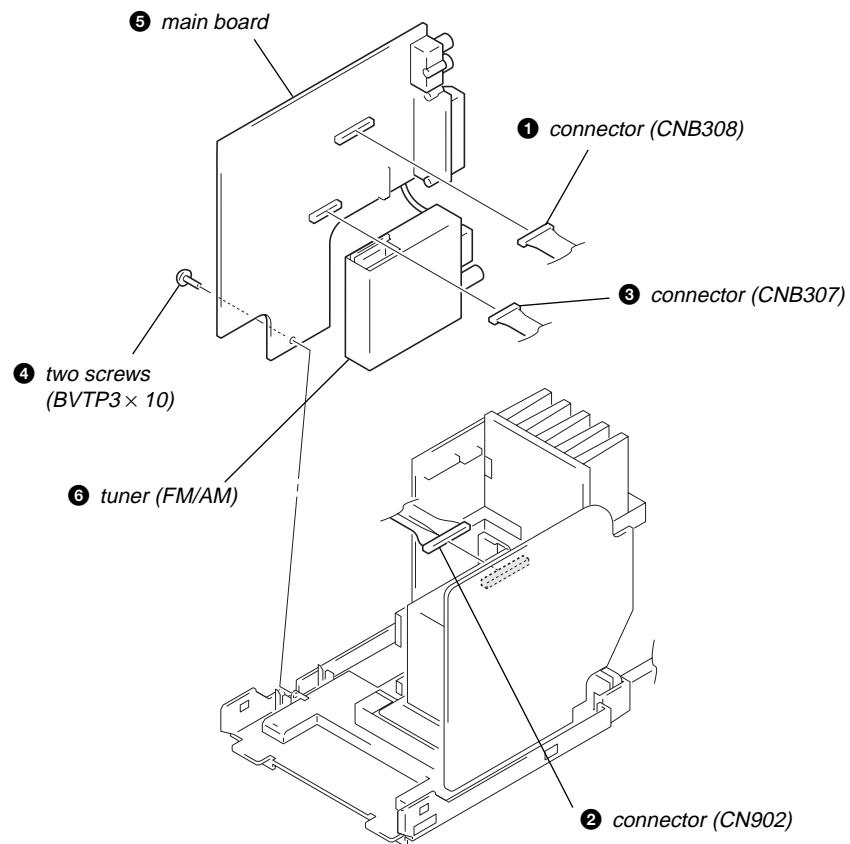
3-5. BASE UNIT (BU-K7BD80B)



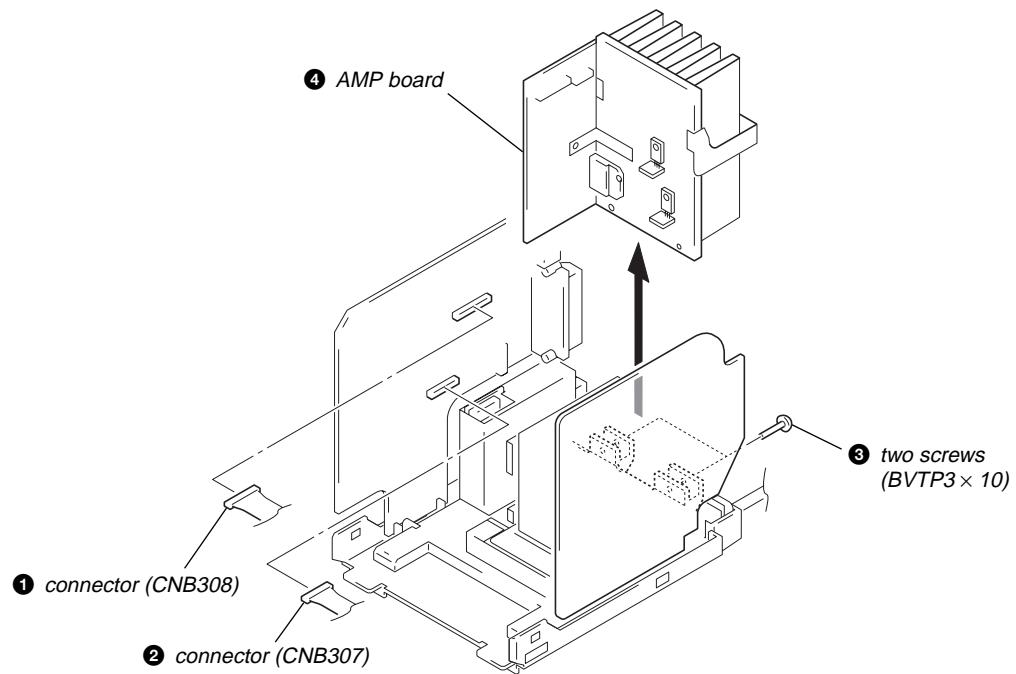
3-6. MECHANICAL DECK



3-7. MAIN BOARD



3-8. AMP BOARD



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:

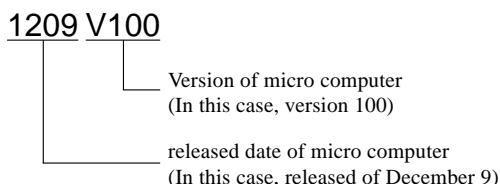
1. Press the **[I/O]** button to turn the power on.
2. While pressing the **[■]** button, press the **[I/O]** button and turn the **[VOLUME]** knob in the counter-clock wise.
3. The message “RESET” is displayed and the set is reset.

PANEL TEST

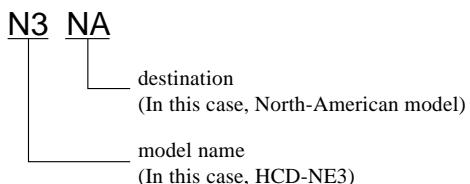
- * All segments of liquid crystal display are tested, and the version and released date of the micro computer are displayed.

Procedure:

1. Press the **[I/O]** button to turn the power on.
2. While pressing the **[DISPLAY]** button, press the **[I/O]** button and turn the **[VOLUME]** knob in the counter-clock wise.
Then all segments of liquid crystal display are turned on.
3. Press the **[DSGX]** button, the version and released date of the micro computer are displayed.

example of display:

4. Press the **[BASS/TREBLE]** button, the model name and destination are displayed.

example of display:

5. To exit from this mode, perform the “COLD RESET”.

CD ERROR CODE DISPLAY MODE

- When this mode is entered, optical pick-up error code is displayed with the 8-character format on the liquid crystal display.

Procedure:

1. Press the **[I/O]** button to turn the power ON.
2. Press the **[CD ▶ II]** button to select “CD”.
3. While pressing the **[DISPLAY]** button, press the **[PLAY/MODE/TUNING MODE]** and turn the **[VOLUME]** knob in the counter-clockwise.
4. When this mode is activated, CD error code is displayed on the liquid crystal display.
5. Press the **[TUNING + ▶▶▶]** and **[TUNING - ◀◀◀]** buttons, error history No. is changed.

The first digit from the left indicates:

The first digit from the left indicates which mode the error history is. “D” is displayed on the liquid crystal display.

The second digit from the left indicates:**(Error history No. display)**

The second digit from the left indicates which order the error history is. “0” indicates the latest error history, and each time the number increases by one, the error history goes back to one-previous error.

The third and 4th digit from the left indicates:**(Error status display)**

The third and 4th digit from the left indicates which error status is indicated.

Display	Status
0 1	Not focused (TOC read without a disc)
0 2	GFS NG (TOC read with a disc chucked)
0 3	Start operation time-over
0 4	Defocused continuously (Defocused during TOC reading)
0 5	Q code not entered for specified time
0 6	Tracking not turned ON
0 7	Blank disc (Blank disc TOC read)

The 5th and 6th digit from the left indicates:**(Error step display)**

The 5th and 6th digit from the left indicates which processing when a trouble occurred

Display	Contents
0 1	SHIP in progress
0 2	Power OFF in progress
0 3	Power ON in progress
0 4	Initialize in progress
0 5	Oscillation stopping
0 6	From oscillation stop, oscillation starting
0 7	Stopping
0 8	Stop operation is under way
0 9	Start operation in progress
0 A	TOC read in progress
0 B	Search operation is under way
0 C	Playback operation is under way
0 D	Pause operation is under way
0 E	Playback manual search operation is under way
0 F	Pause manual search operation is under way

The 7th and 8th digit from the left indicates:

The 7th and 8th digit from the left indicates which operation in progress when a trouble occurred. (Step of each processing of the 5th and 6th digits is indicated)

5 REPEAT LIMIT CANCEL MODE

- Number of repeat for CD playback is 5 times when the repeat mode is “REPEAT”. This mode is used to enables CD to repeat playback for limitless times.

Procedure:

1. Press the **[I/O]** button to turn the power ON.
2. Press the **[CD ▶ II]** button to select “CD”.
3. While pressing the **[■]** button, press the **[PLAY MODE/TUNING MODE]** and turn the **[VOLUME]** knob in the counter-clockwise.
4. The message “NO LIMIT” is displayed on the liquid crystal display momentarily, CD repeat 5 limit is cancelled.

TUNER STEP CHANGE-OVER

- * Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.

Procedure:

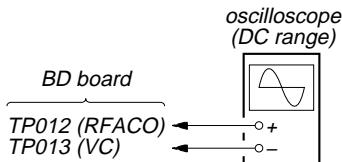
1. Set the FUNCTION to AM, and press the **[I/O]** button to turn the power off.
2. While depressing the **[TUNING + ▶▶ ▶▶]** button, press the **[I/O]** button.
3. The message “9K STEP” or “10K STEP” is displayed on the liquid crystal display, and thus the channel step is changed over.

SECTION 5

ELECTRICAL CHECK

Note:

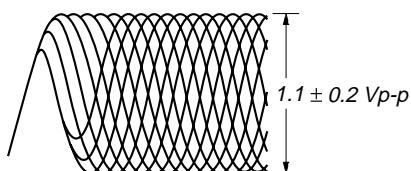
1. CD Block is basically constructed to operate without adjustment.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than $10 \text{ M}\Omega$ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified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

FOCUS BIAS CHECK**Procedure :**

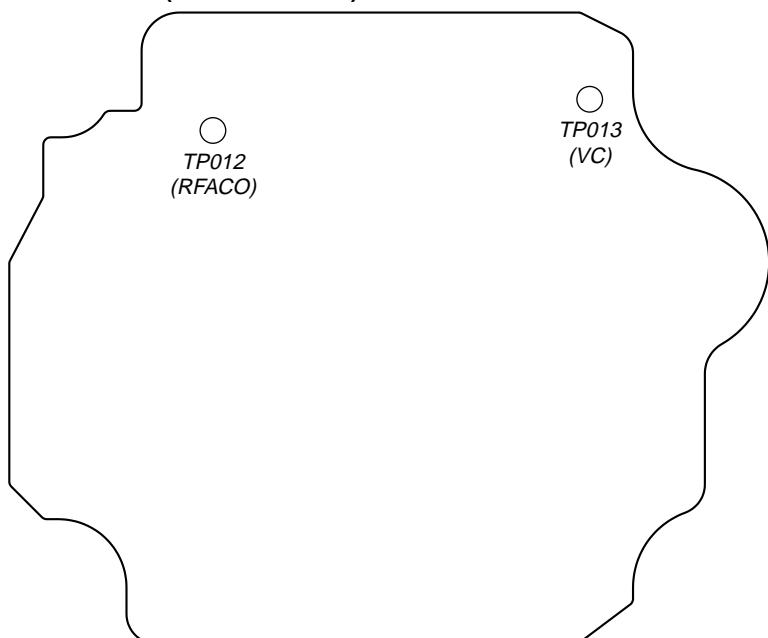
1. Connect the oscilloscope to TP012 (RFACO) and TP013 (VC) on the BD board.
2. Insert the disc (YEDES-18). (Part No. : 3-702-101-01)
3. Press the [CD ► II] button.
4. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)
A good eye pattern means that the diamond shape (\diamond) in the center of the waveform can be clearly distinguished.

• RF signal reference waveform (eye pattern)

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

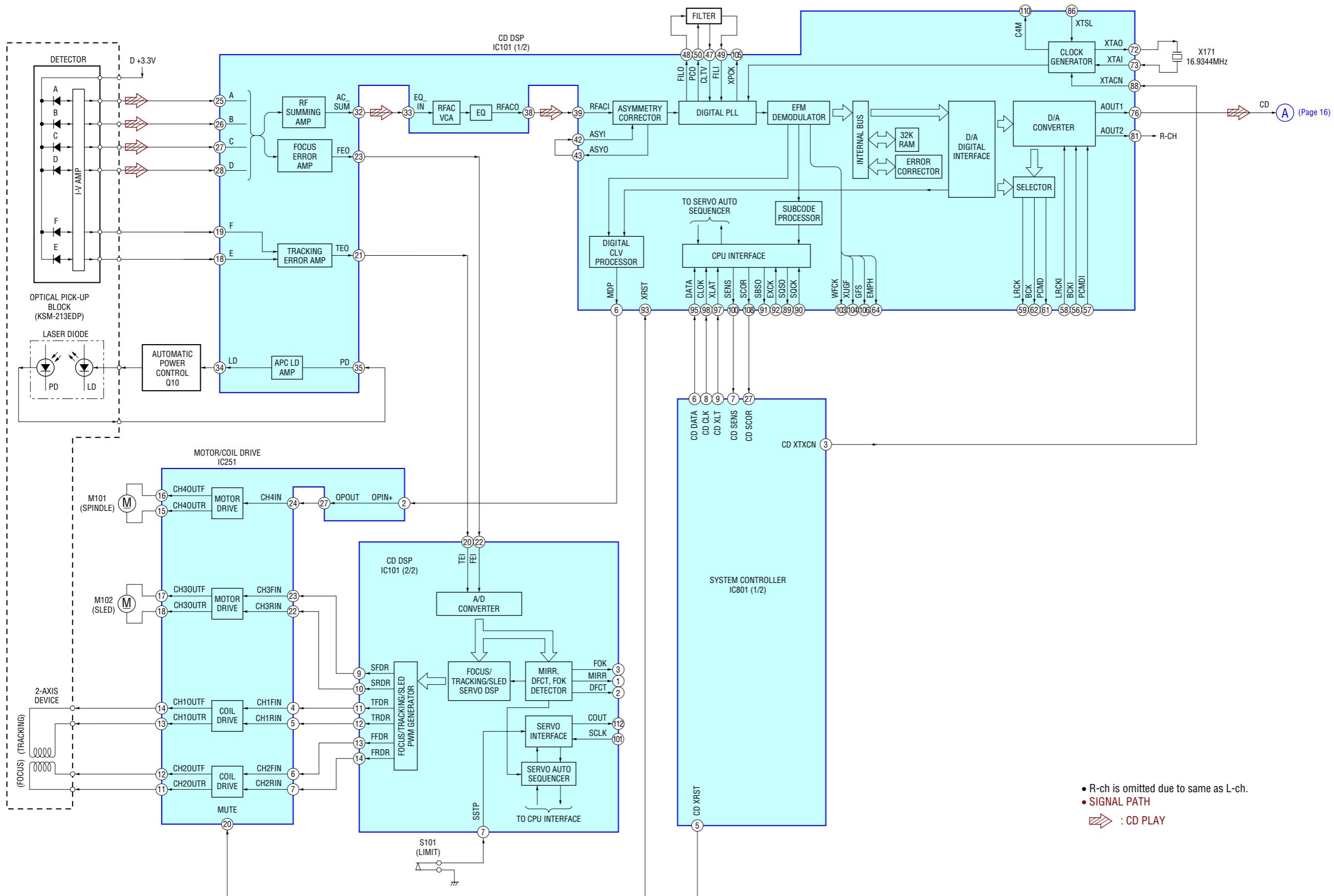


When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

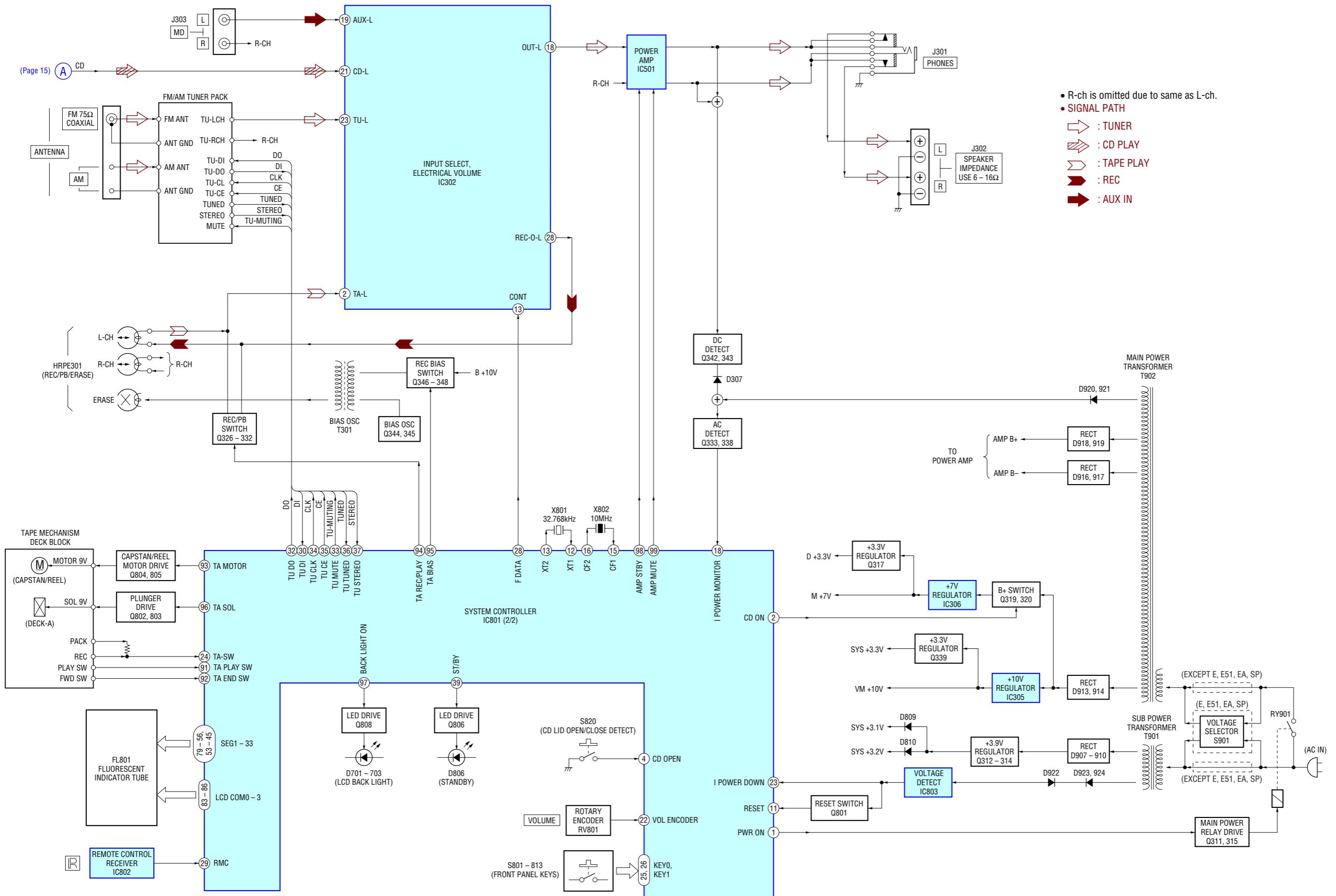
Checking Location:**- BD BOARD (Conductor Side) –**

SECTION 6 DIAGRAMS

6-1. BLOCK DIAGRAM – CD SERVO Section –



6-2. BLOCK DIAGRAM – MAIN Section –



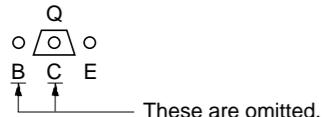
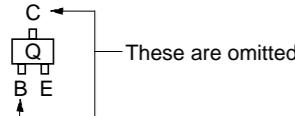
6-3. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- △ : 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
(Conductor Side) the pattern face are indicated.
Parts face side: Parts on the parts face side seen from
(Component Side) the parts face are indicated.

- Indication of transistor.



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.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note:

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

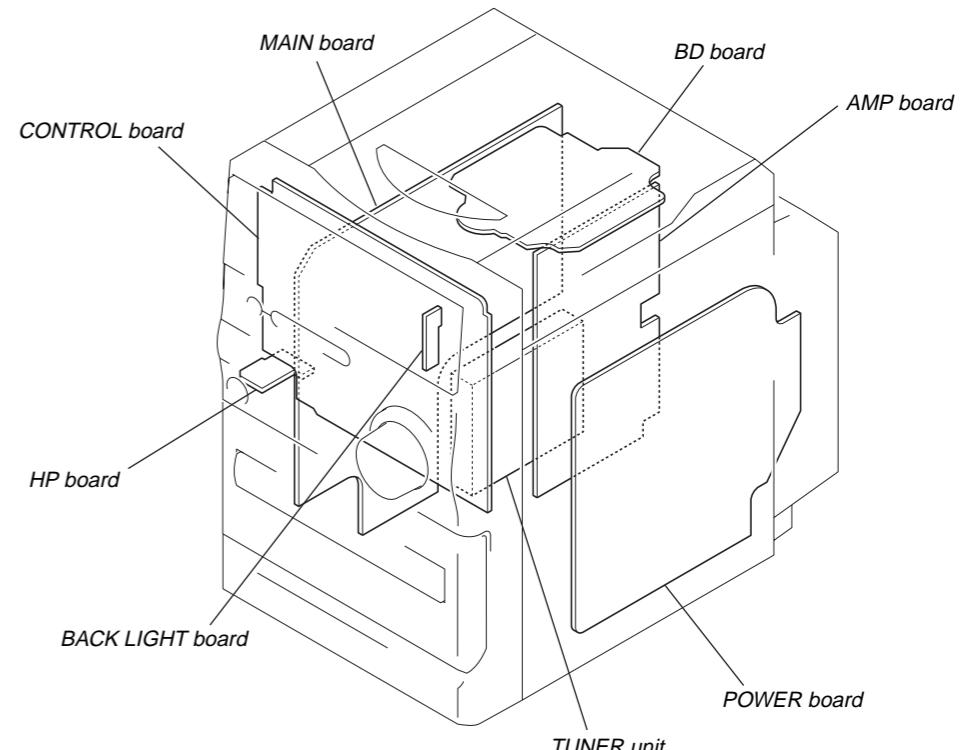
Note:

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

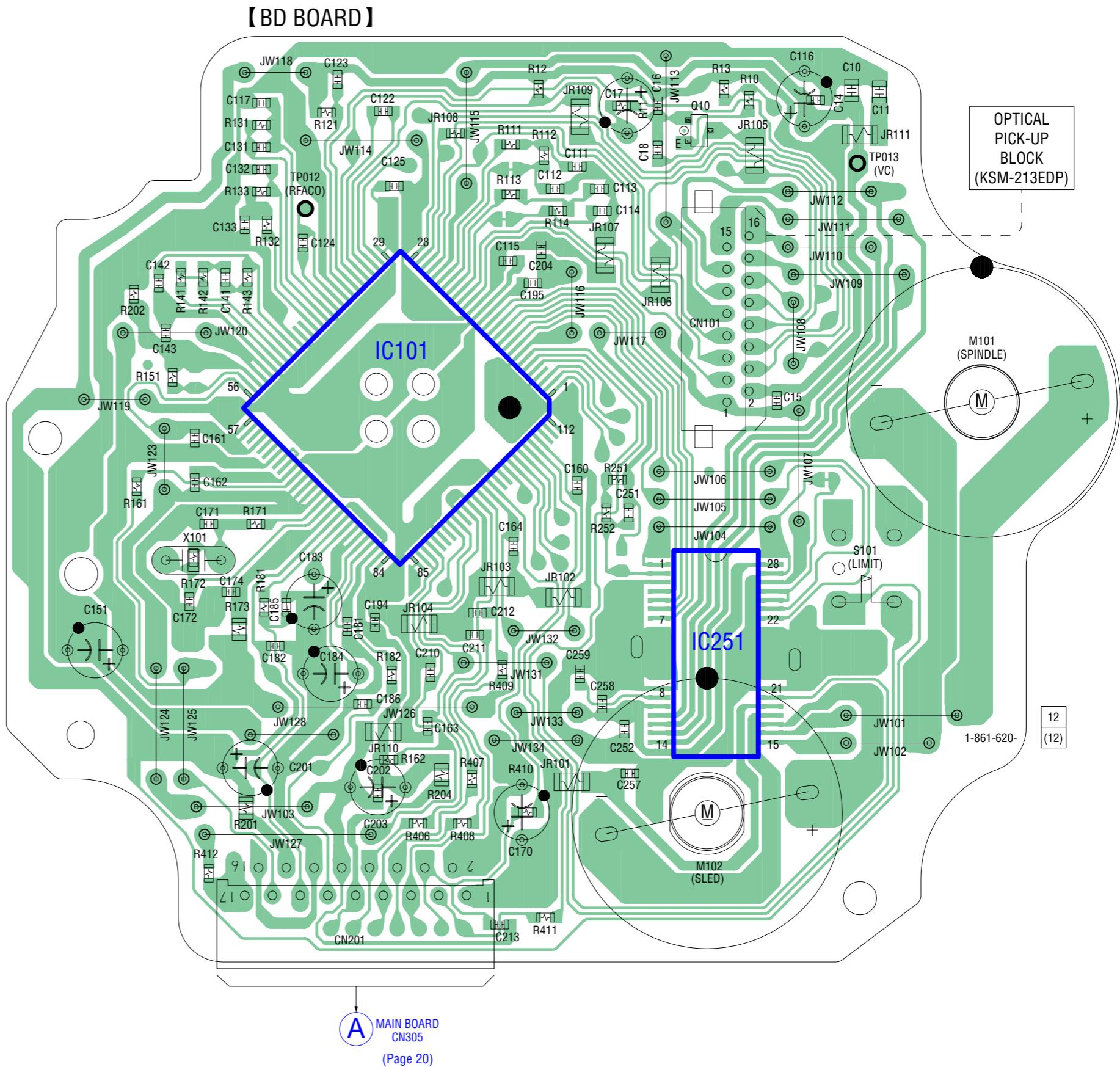
- : B+ Line.
- : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
 - CD Board –
no mark : CD PLAY
 - Other Sections –
no mark : TUNER
() : CD PLAY
{ } : TAPE PLAY
} : REC
- Voltages are taken with a VOM (Input impedance $10\text{ M}\Omega$). Voltage variations 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
 - ⇒ : CD PLAY
 - ⇒ : TAPE PLAY
 - ⇒ : REC
 - ⇒ : AUX IN
- Abbreviation

AR	: Argentina model
AUS	: Australian model
CND	: Canadian model
E51	: Chilean and Peruvian models
EA	: Saudi Arabia model
KR	: Korean model
MX	: Mexican model
SP	: Singapore model
TW	: Taiwan model

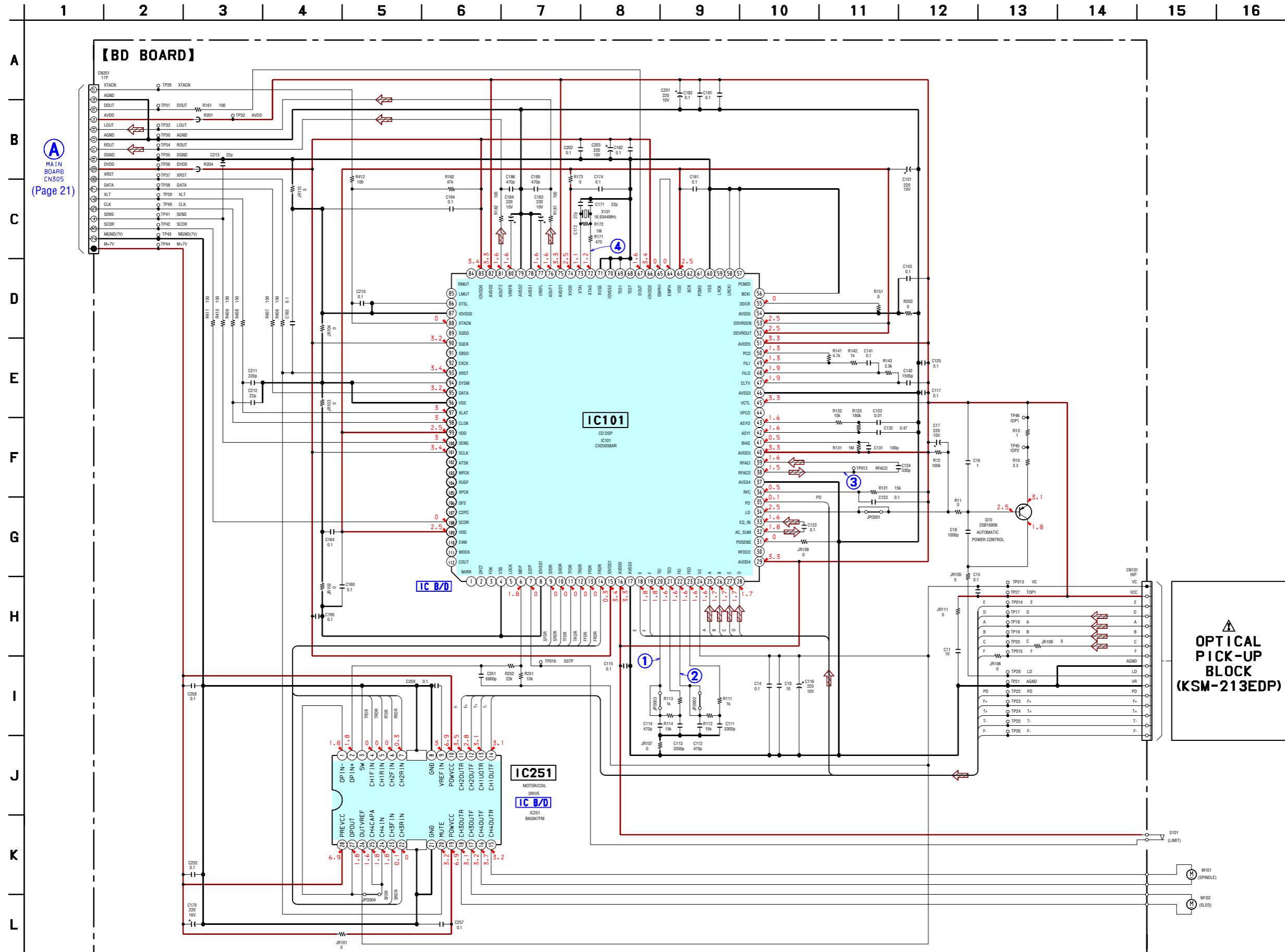
• Circuit Boards Location



6-4. PRINTED WIRING BOARD – BD Board – • See page 17 for Circuit Boards Location.  :Uses unleaded solder.



6-5. SCHEMATIC DIAGRAM – BD Board – • See page 28 for IC Block Diagrams. • See page 28 for Waveforms



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.

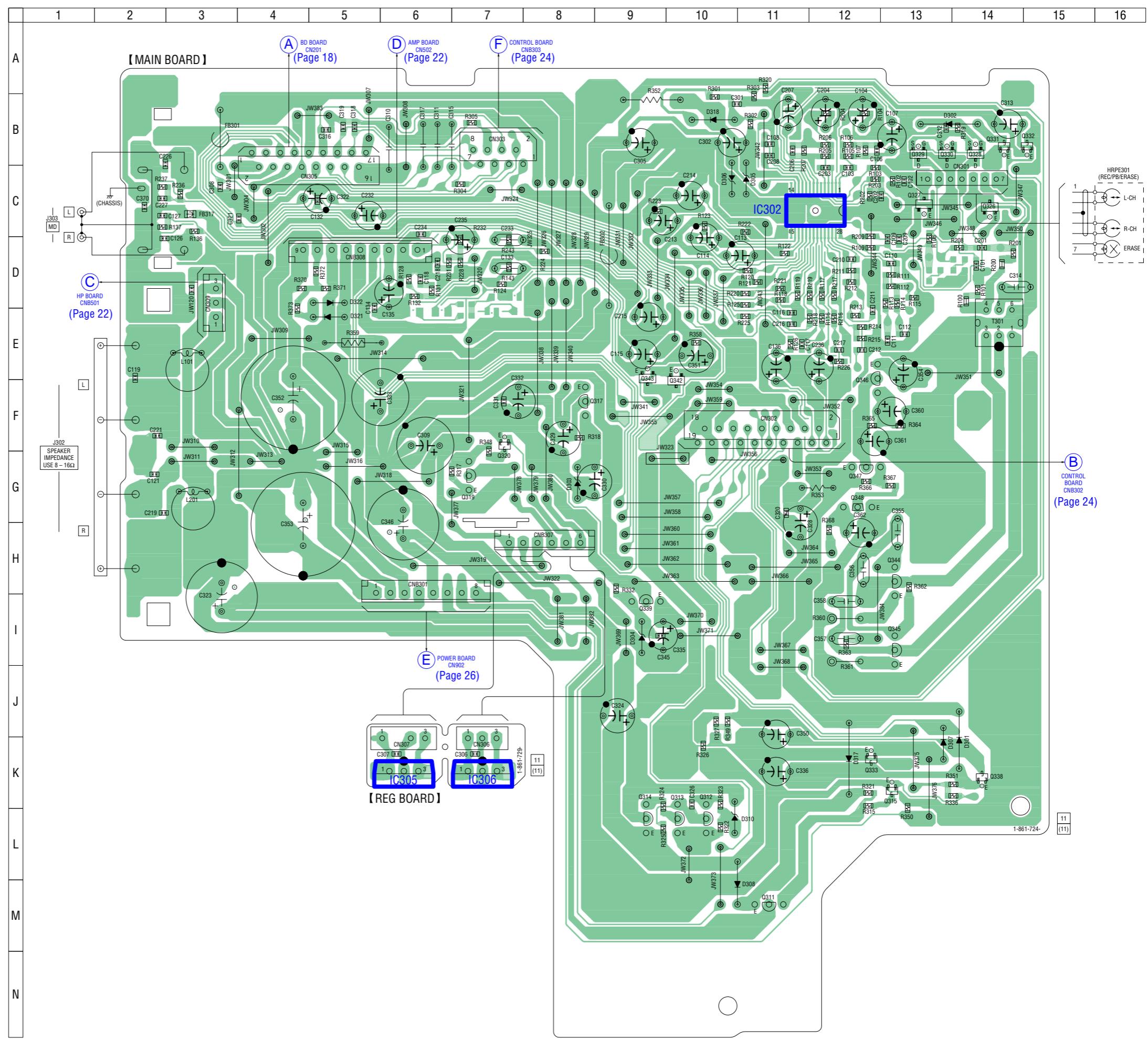
6-6. PRINTED WIRING BOARDS – MAIN Section – • See page 17 for Circuit Boards Location.



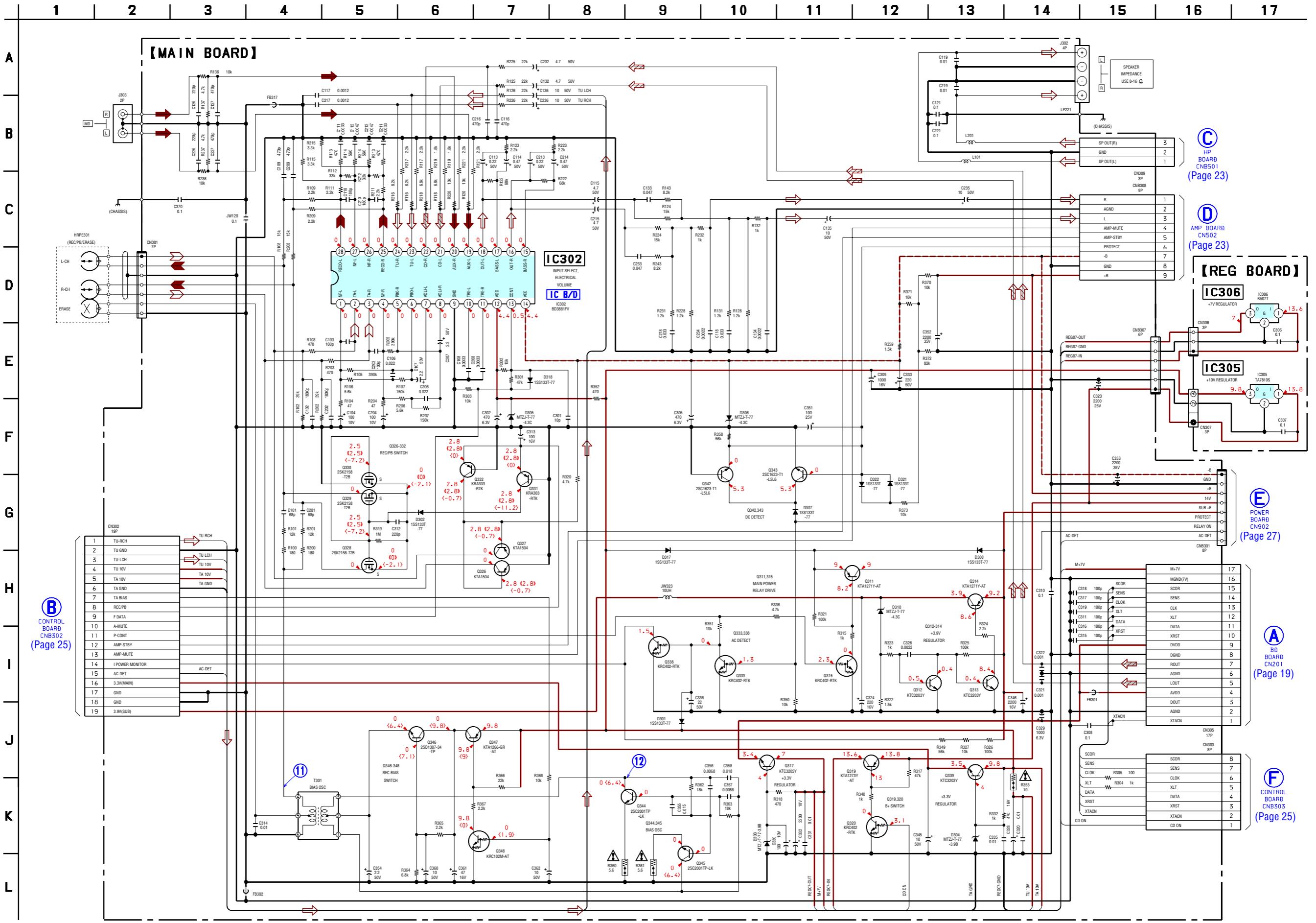
:Uses unleaded solder.

• Semiconductor Location

Ref. No.	Location
D301	K-14
D302	B-13
D303	G-8
D304	I-9
D305	C-11
D306	C-10
D307	K-13
D308	M-10
D310	L-10
D317	K-12
D318	B-10
D321	E-5
D322	D-5
IC302	C-12
IC305	K-6
IC306	K-7
Q311	M-11
Q312	L-10
Q313	L-10
Q314	L-9
Q315	K-13
Q317	F-8
Q319	G-7
Q320	F-7
Q326	C-14
Q327	C-13
Q328	B-14
Q329	B-13
Q330	B-13
Q331	B-14
Q332	B-15
Q333	K-12
Q338	K-14
Q339	I-9
Q342	F-10
Q343	E-9
Q344	H-13
Q345	I-13
Q346	E-12
Q347	G-12
Q348	G-12



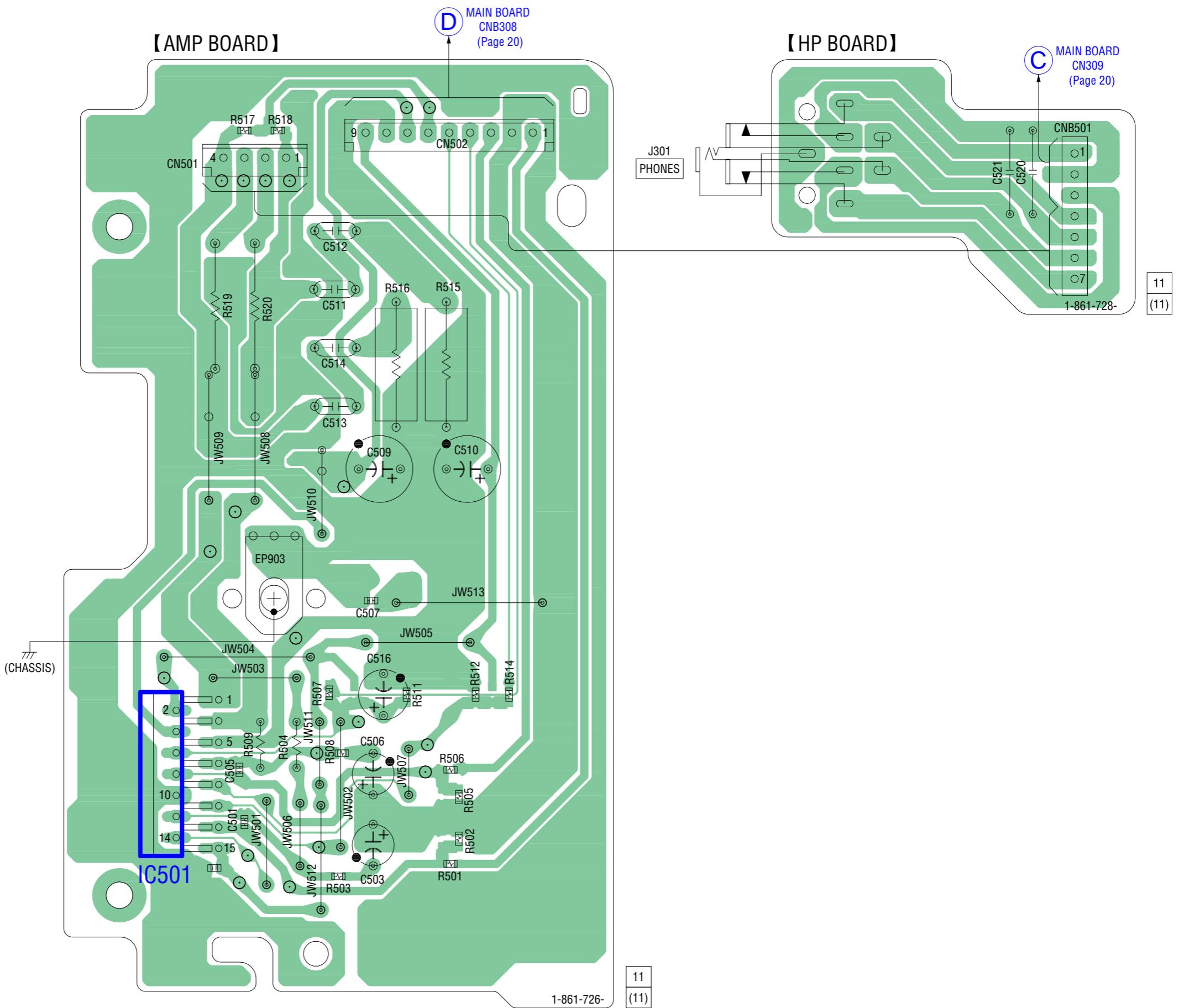
6-7. SCHEMATIC DIAGRAM – MAIN Section – • See page 28 for IC Block Diagram. • See page 28 for Waveforms.



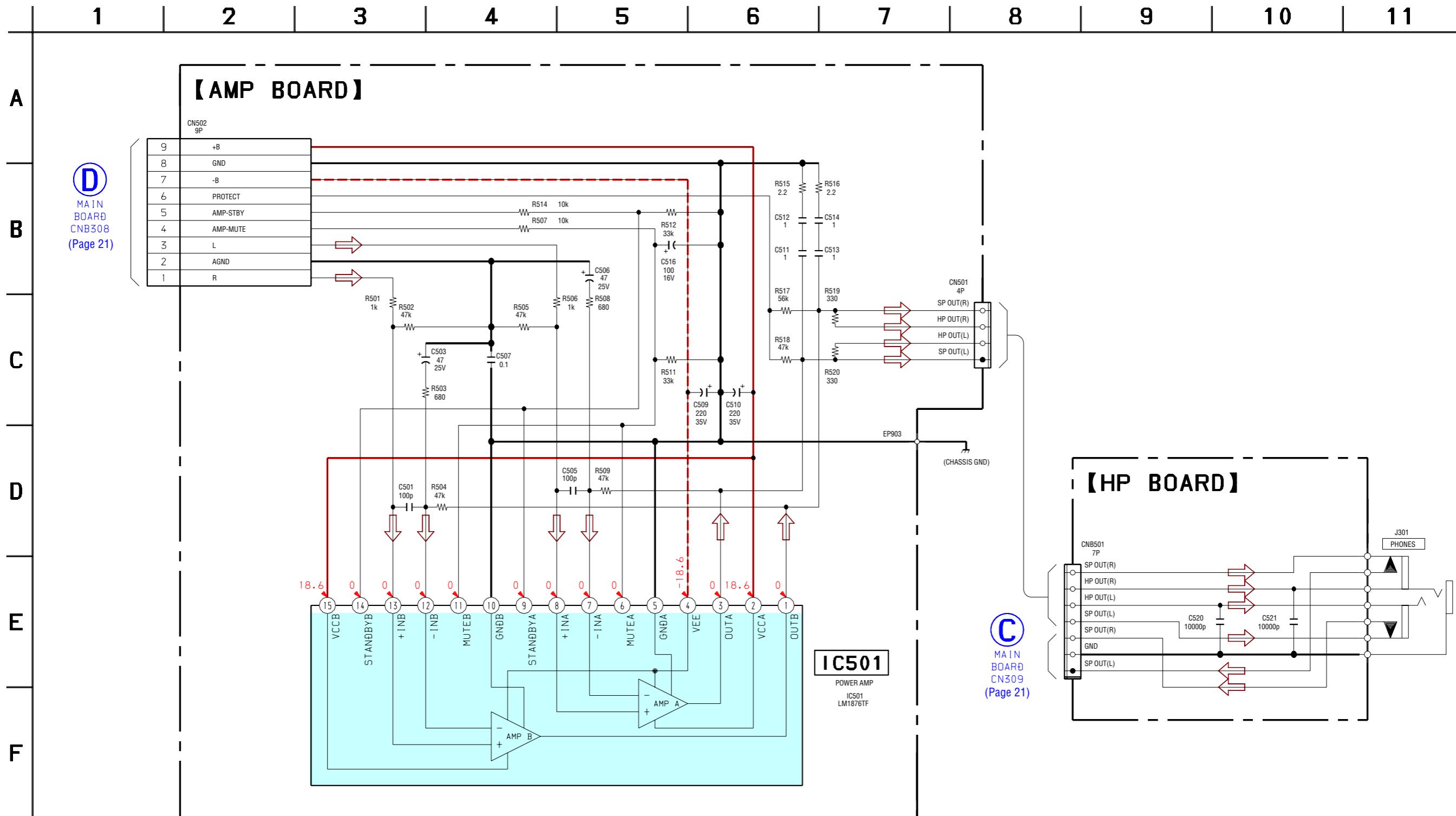
The components identified by mark or dotted line with mark are critical for safety.
Replace only with part number specified.

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

6-8. PRINTED WIRING BOARDS – AMP Section – • See page 17 for Circuit Boards Location.  :Uses unleaded solder.



6-9. SCHEMATIC DIAGRAM – AMP Section –



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

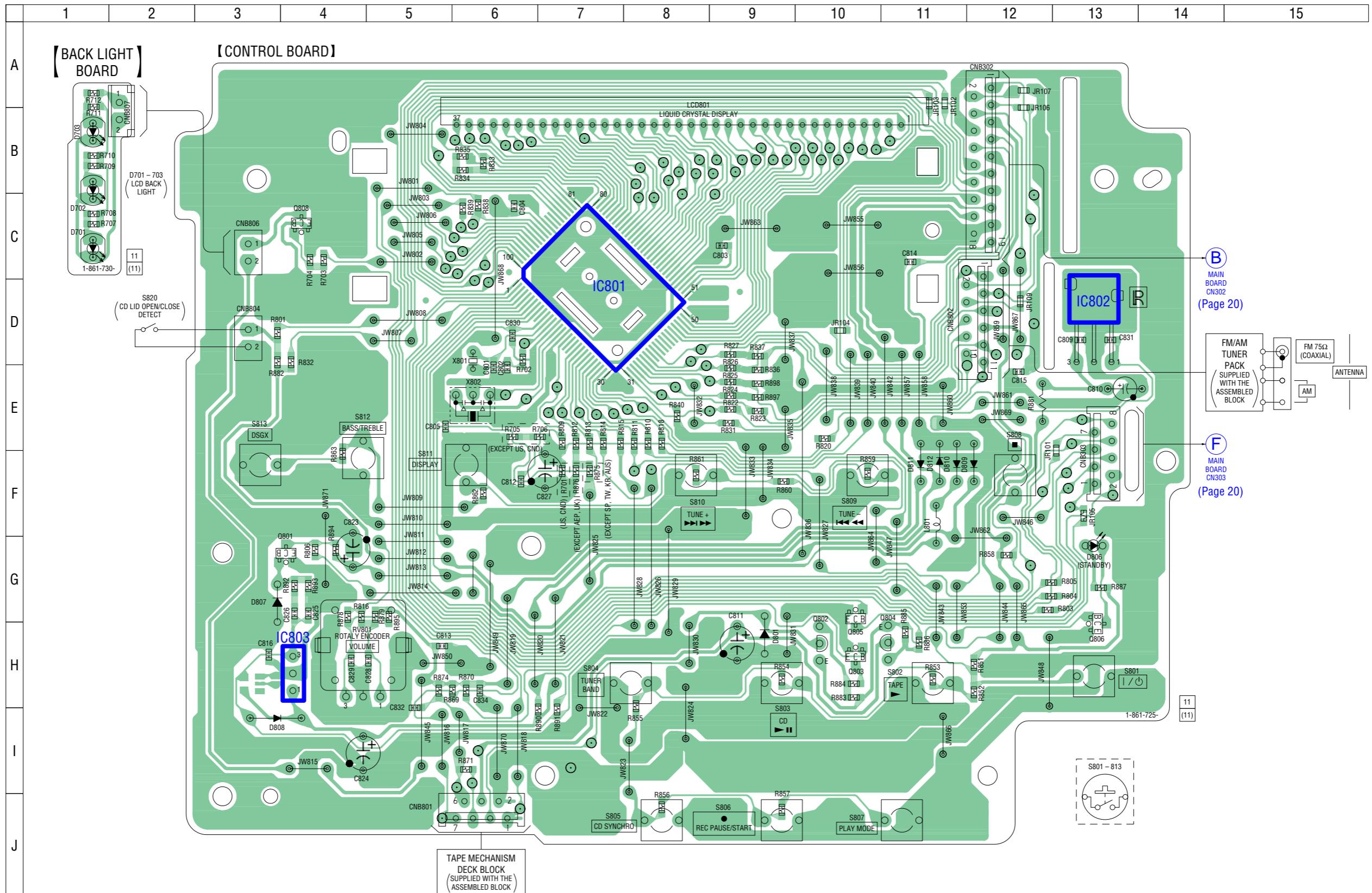
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-10. PRINTED WIRING BOARDS – PANEL Section – • See page 17 for Circuit Boards Location.  :Uses unleaded solder.

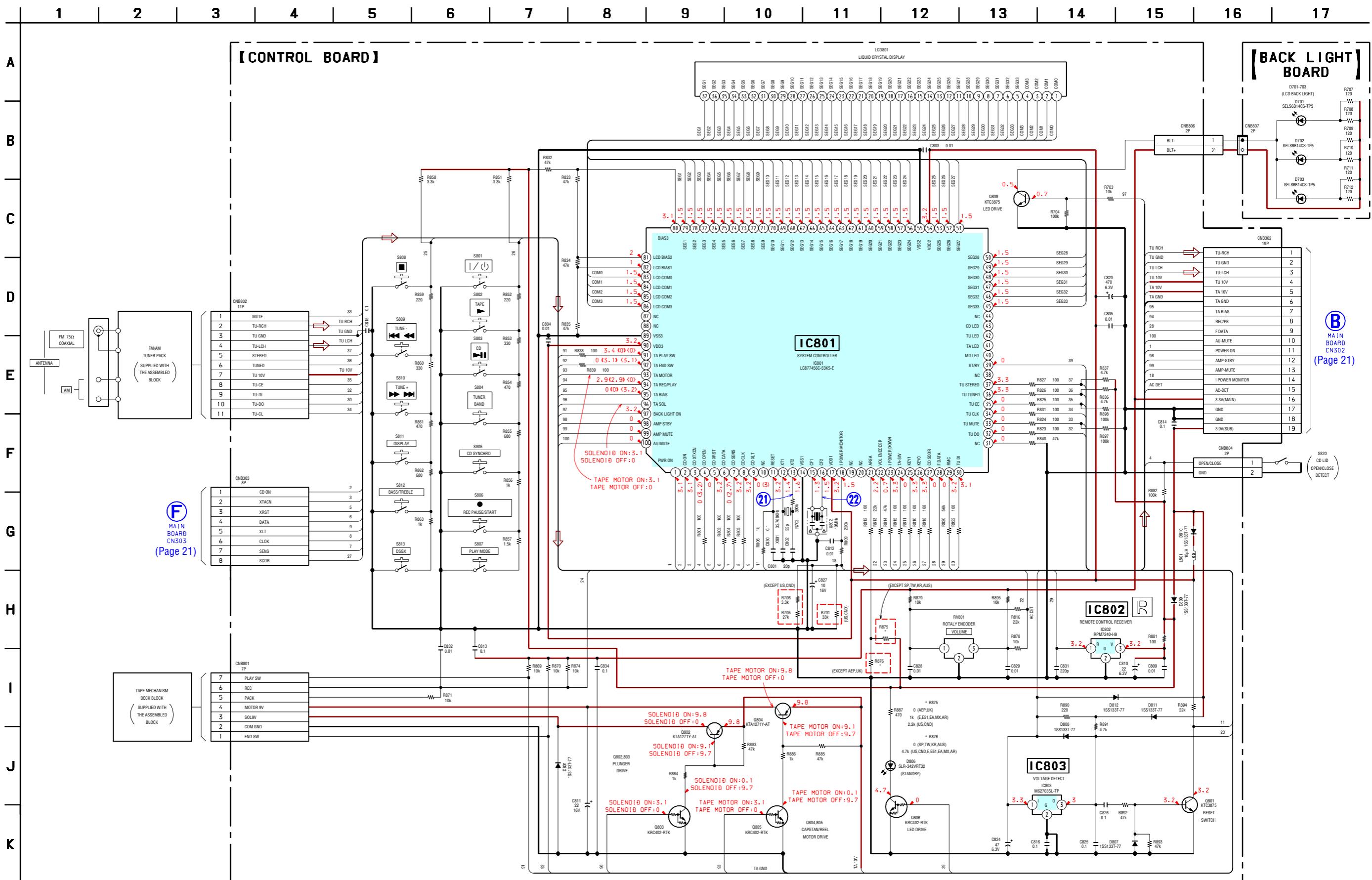
 :Uses unleaded solder

- Semiconductor Location

Ref. No.	Location
D701	C-1
D702	B-1
D703	B-1
D801	H-9
D806	G-13
D807	G-3
D808	I-3
D809	F-12
D810	F-11
D811	F-11
D812	F-11
IC801	D-7
IC802	D-13
IC803	H-4
Q801	G-4
Q802	H-10
Q803	H-10
Q804	H-11
Q805	H-10
Q806	H-13
Q808	C-4



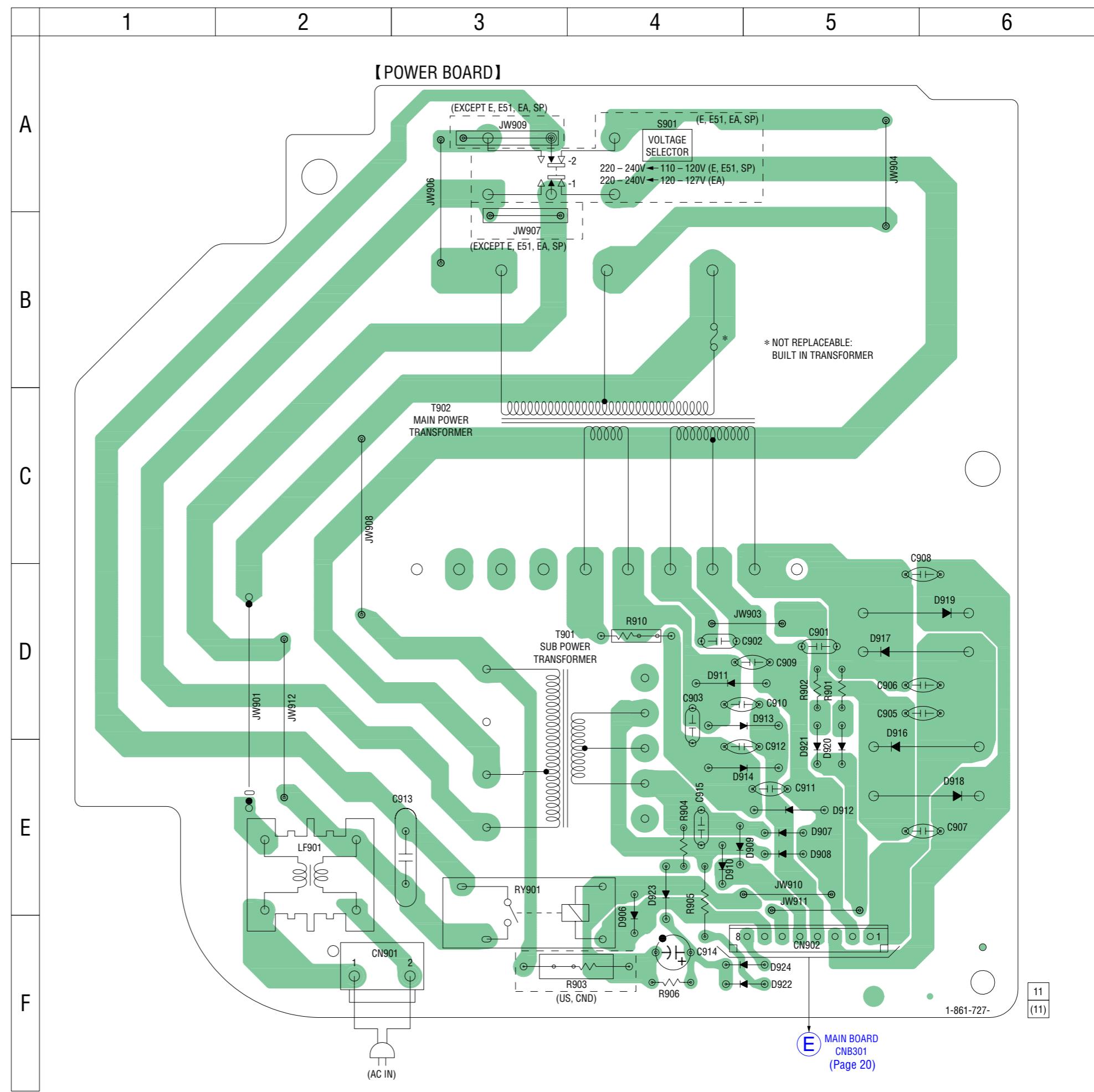
• See page 28 for Waveforms. • See page 30 for IC Pin Function Description.



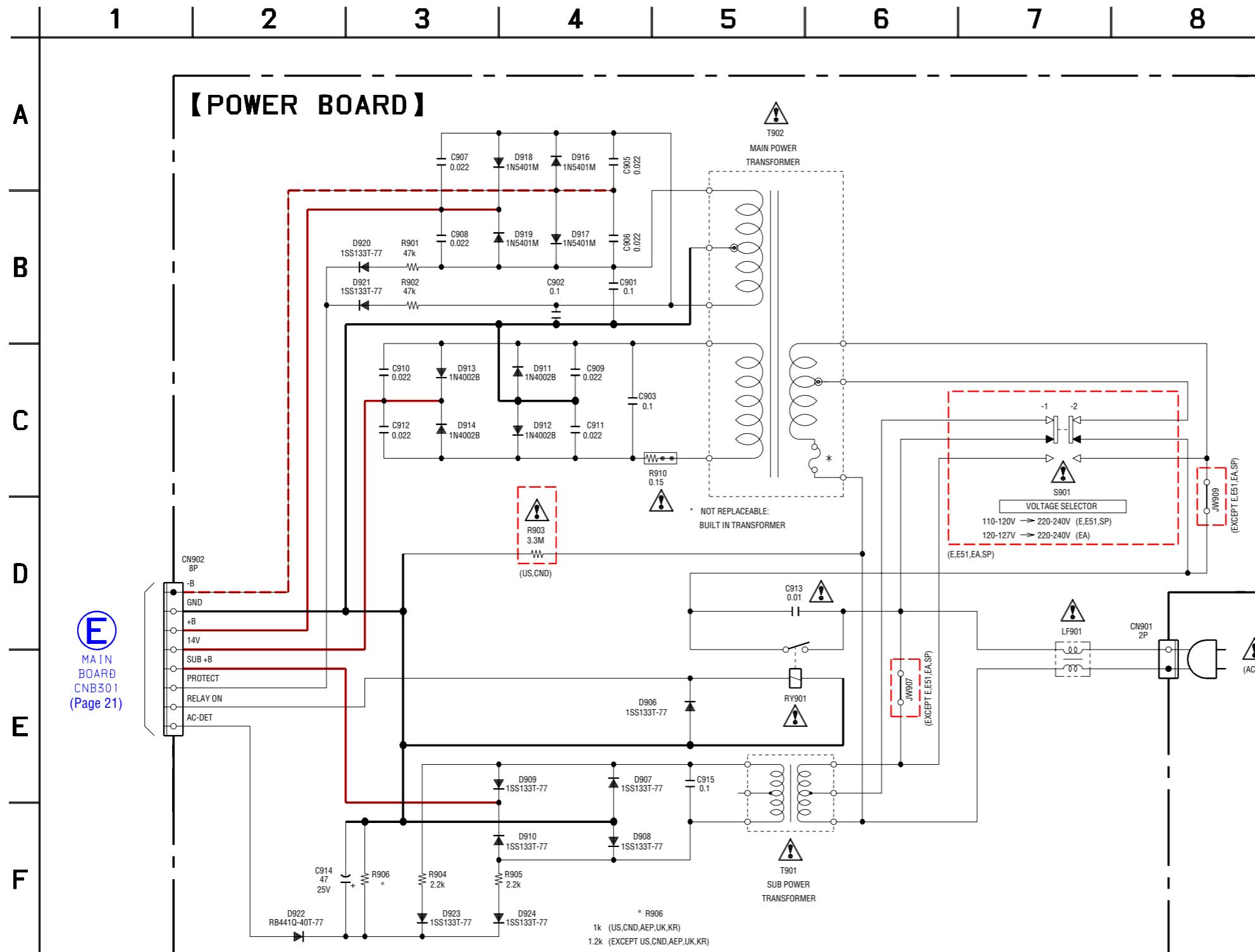
6-12. PRINTED WIRING BOARD – POWER Board – • See page 17 for Circuit Boards Location.  :Uses unleaded solder.

• Semiconductor Location

Ref. No.	Location
D906	F-4
D907	E-5
D908	E-5
D909	E-4
D910	E-4
D911	D-4
D912	E-5
D913	D-5
D914	E-5
D916	E-5
D917	D-5
D918	E-6
D919	D-6
D920	E-5
D921	E-5
D922	F-5
D923	E-4
D924	F-5



6-13. SCHEMATIC DIAGRAM – POWER Board –

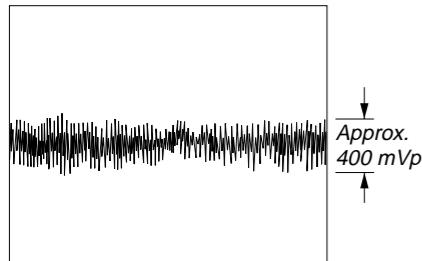


The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

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

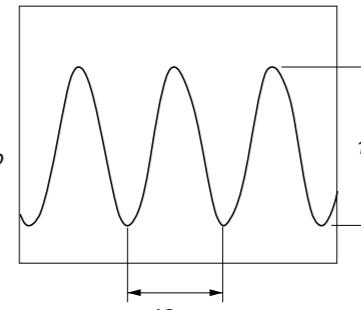
• Waveforms
– BD Board –

① IC101 ⑩ (TEI) (CD Play mode)



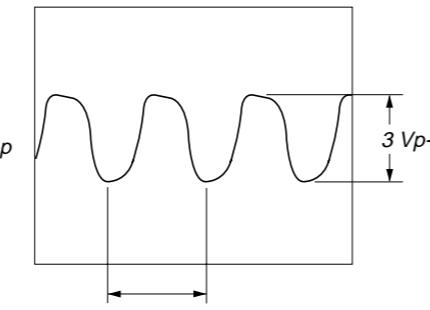
– MAIN Board –

⑪ T301 ④ (REC mode)

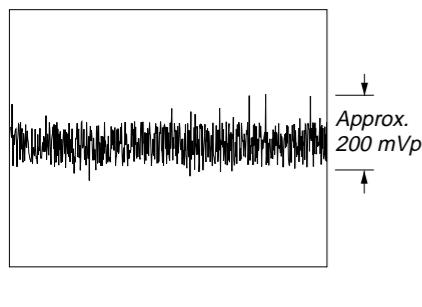


– CONTROL Board –

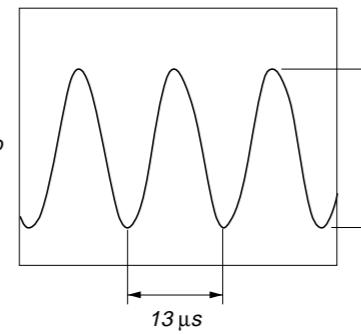
⑫ IC801 ⑬ (XT2)



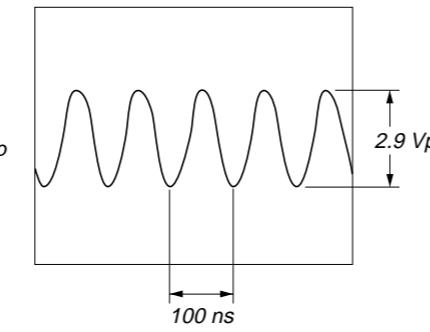
② IC101 ⑩ (FEI) (CD Play mode)



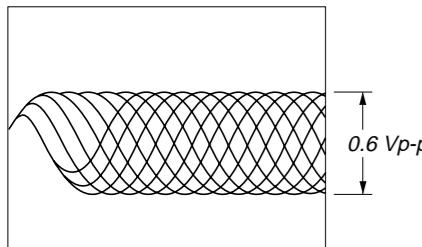
⑫ Q344 (Collector) (REC mode)



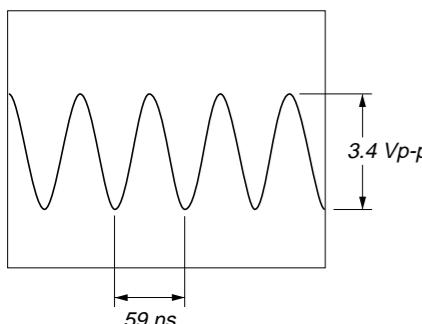
⑬ IC801 ⑩ (CF2)



③ IC101 ⑩ (RFACO) (CD Play mode)

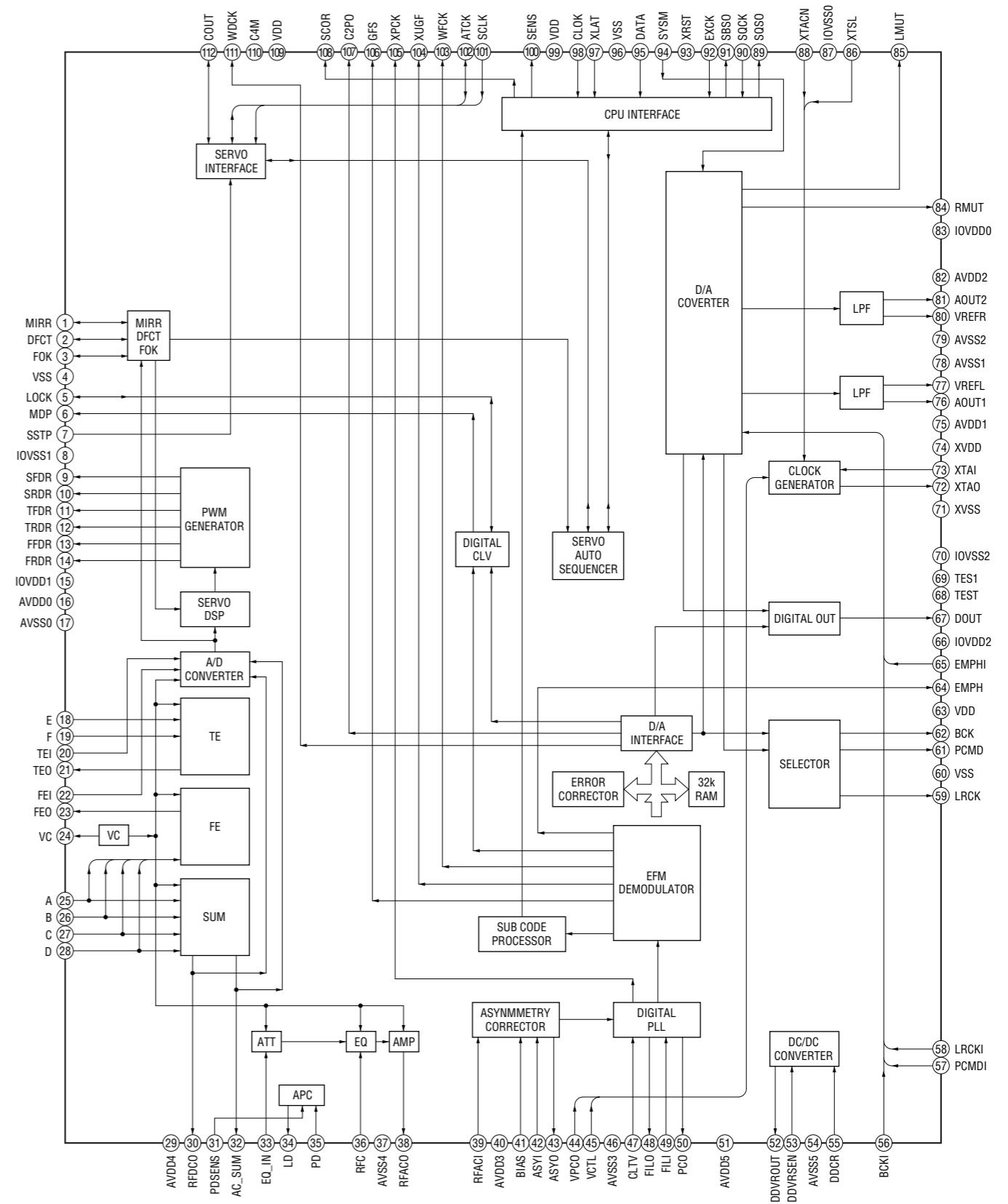


④ IC101 ⑩ (XTAO) (CD Play mode)

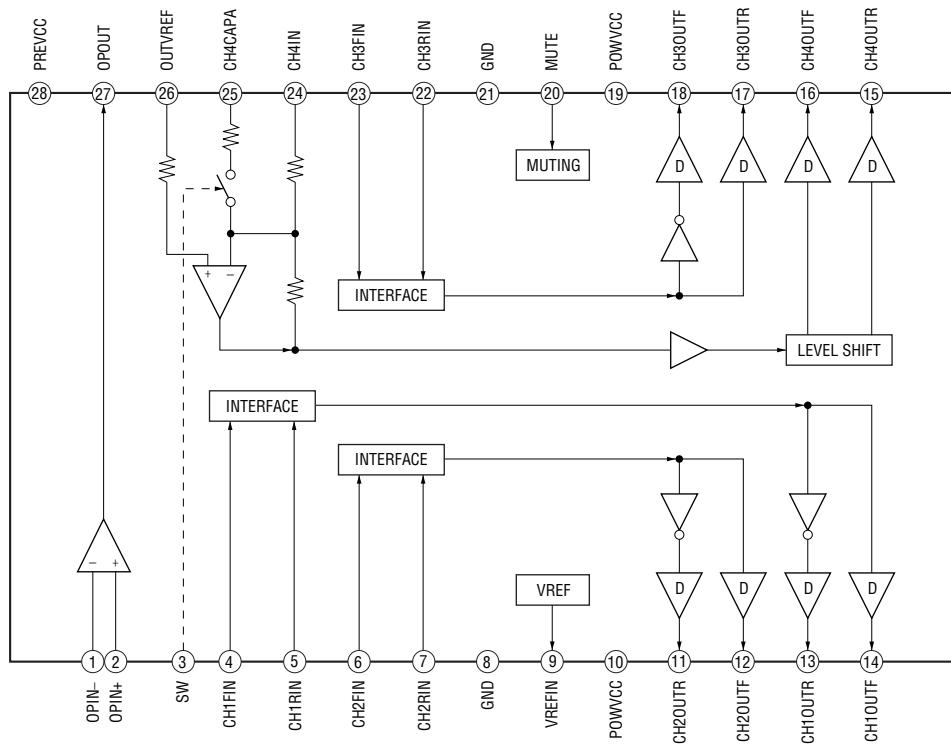


• IC Block Diagrams
– BD Board –

IC101 CXD3058AR

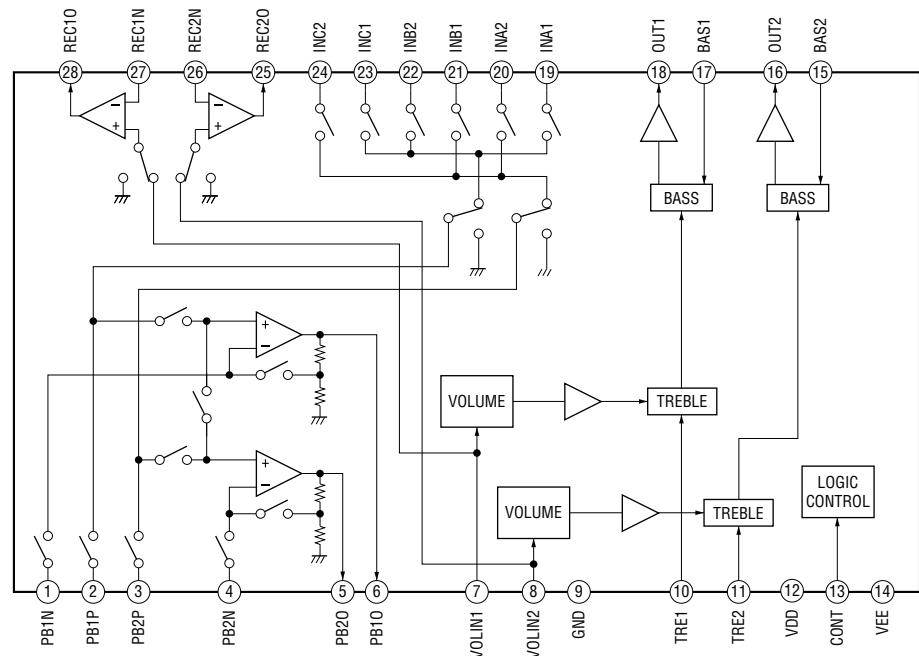


IC251 BA5947FM



- MAIN Board -

IC302 BD3881FV



- IC Pin Function Description

CONTROL BOARD IC801 LC877456C-53K5-E (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	PWR ON	O	Power relay drive signal output terminal “H”: on
2	CD ON	O	Power on/off control signal output for the CD mechanism section
3	CD XTXCN	O	Oscillation circuit control signal output to the CD DSP “H”: auto oscillation, “L”: oscillation off
4	CD OPEN	I	CD lid open/close detection switch input terminal
5	CD XRST	O	Reset signal output to the CD DSP
6	CD DATA	O	Serial data output to the CD DSP
7	CD SENS	I	Internal status (SENSE) signal input from the CD DSP
8	CD CLK	O	Serial data transfer clock signal output to the CD DSP
9	CD XLT	O	Serial data latch pulse output to the CD DSP
10	NC	—	Not used
11	RESET	I	Reset signal input from the reset switch “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
12	XT1	I	Sub system clock input terminal (32.768 kHz)
13	XT2	O	Sub system clock output terminal (32.768 kHz)
14	VSS1	—	Ground terminal
15	CF1	I	Main system clock input terminal (10 MHz)
16	CF2	O	Main system clock output terminal (10 MHz)
17	VDD1	—	Power supply terminal (+3.2V)
18	I POWER MONITOR	I	Power monitor input terminal
19, 20	NC	—	Not used
21	AREA	I	Model destination setting terminal
22	VOL ENCODER	I	Dial pulse input of the rotary encoder (for VOLUME control)
23	I POWER DOWN	I	Power down detection signal input terminal “L”: power down, normally : “H”
24	TA-SW	I	Cassette in/out detect switch signal input from the tape mechanism deck “L”: cassette in
25, 26	KEY1, KEY0	I	Front panel key input terminal (A/D input)
27	CD SCOR	I	Subcode sync (S0+S1) detection signal input from the CD DSP
28	F DATA	O	Serial data output to the electrical volume
29	RMC	I	Remote control signal input from the remote control receiver
30	TU DI	I	Serial data input from the FM/AM tuner unit
31	NC	—	Not used
32	TU DO	O	Serial data output to the FM/AM tuner unit
33	TU MUTE	O	Tuner muting on/off control signal output to the FM/AM tuner unit
34	TU CLK	O	serial data transfer clock signal output to the FM/AM tuner unit
35	TU CE	O	Chip enable signal output to the FM/AM tuner unit
36	TU TUNED	I	Tuning detection signal input from the FM/AM tuner unit
37	TU STEREO	I	FM stereo detection signal input from the FM/AM tuner unit
38	NC	—	Not used
39	ST/BY	O	LED drive signal output terminal
40	MD LED	O	LED drive signal output terminal

Pin No.	Pin Name	I/O	Description
41	TA LED	O	LED drive signal output terminal
42	TU LED	O	LED drive signal output terminal
43	CD LED	O	LED drive signal output terminal
44	NC	—	Not used
45 to 53	SEG33 to SEG25	O	Segment drive signal output to the fluorescent indicator tube
54	VDD2	—	Power supply terminal (+3.1V)
55	VSS2	—	Ground terminal
56 to 79	SEG24 to SEG1	O	Segment drive signal output to the fluorescent indicator tube
80	BIAS3	I	Power supply output for the liquid crystal display bias
81	LCD BIAS2	I	Power supply output for the liquid crystal display bias
82	LCD BIAS1	I	Power supply output for the liquid crystal display bias
83 to 86	LCD COM0 to LCD COM3	O	Common drive signal output to the liquid crystal display (D621)
87, 88	NC	—	Not used
89	VSS3	—	Ground terminal
90	VDD3	—	Power supply terminal (+3.1V)
91	TA PLAY SW	I	PLAY switch signal input from the tape mechanism deck
92	TA END SW	I	END switch signal input from the tape mechanism deck
93	TA MOTOR	O	Capstan/reel motor on/off control signal output terminal “H”: motor on
94	TA REC/PLAY	O	Recording/playback selection signal output terminal “H”: playback mode, “L”: recording mode
95	TA BIAS	O	Recording bias on/off selection signal output terminal “H”: bias on, “L”: bias off
96	TA SOL	O	Trigger plunger on/off control signal output terminal “H”: plunger on
97	BACK LIGHT ON	O	LED drive signal output terminal for the LCD back light
98	AMP STBY	O	Standby control signal output to the power amplifier
99	AMP MUTE	O	Tuner muting on/off control signal output to the power amplifier
100	AU MUTE	O	Line muting on/off control signal output terminal Not used

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

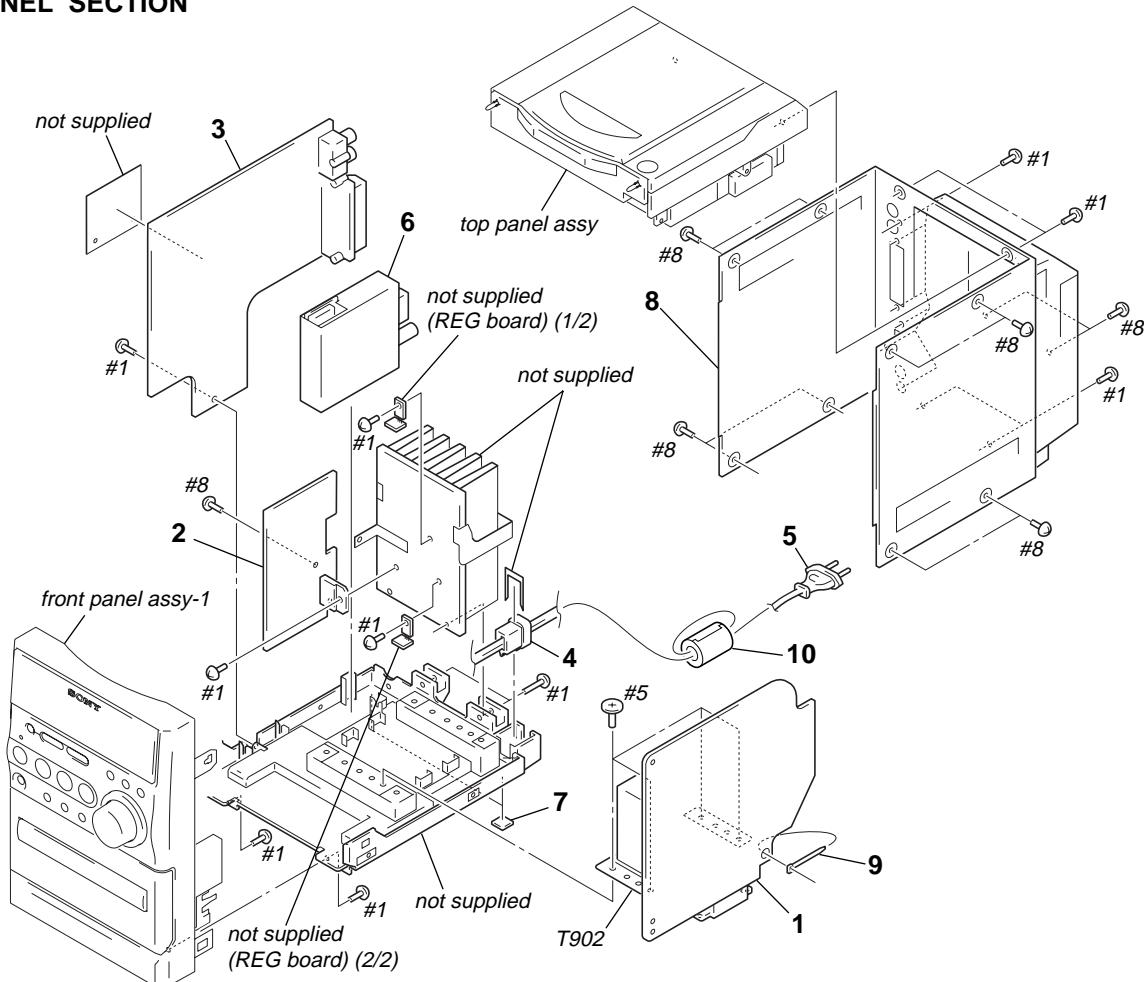
Abbreviation

AR	: Argentina model	E51	: Chilean and Peruvian model	MX	: Mexican model
AUS	: Australian model	EA	: Saudi Arabia model	SP	: Singapore model
CND	: Canadian model	KR	: Korea model	TW	: Taiwan model

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

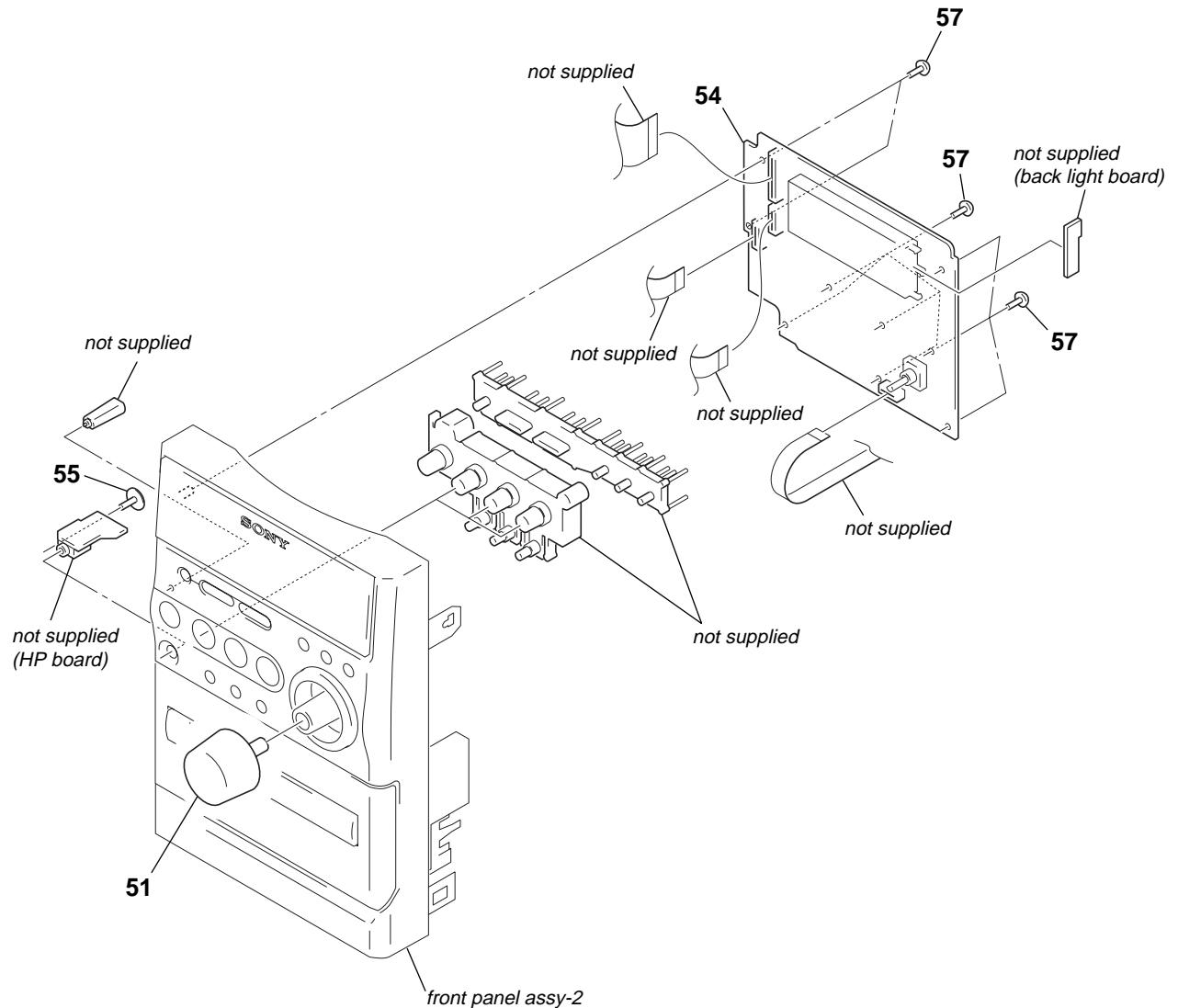
Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. PANEL SECTION



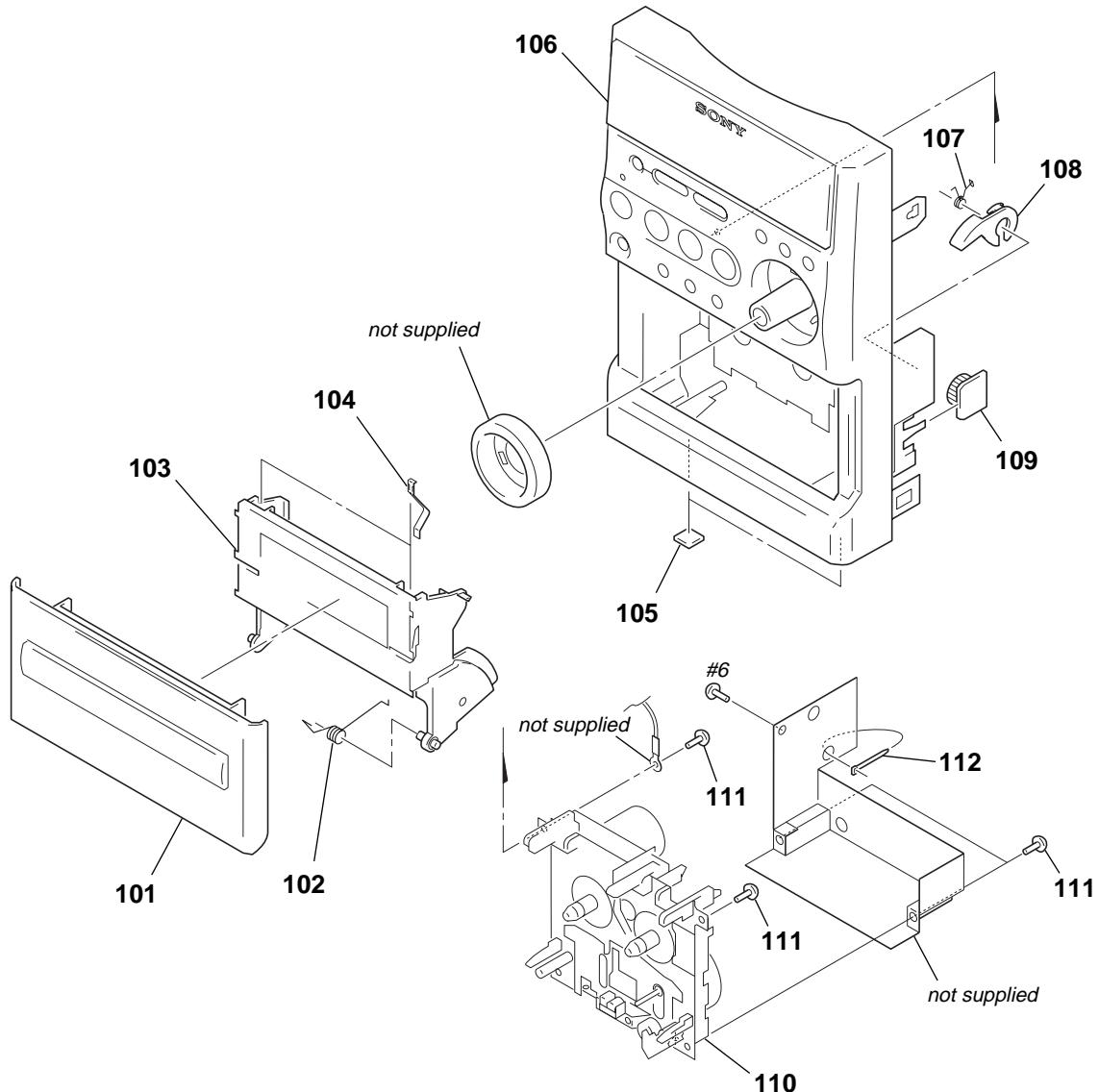
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	A-1055-614-A	POWER BOARD, COMPLETE (E, E51, SP)		6	1-693-625-11	TUNER (FM/AM) (US, CND)	
1	A-1056-003-A	POWER BOARD, COMPLETE (AR, AUS)		6	1-693-628-11	TUNER (FM/AM)	(E, E51, EA, MX, SP, TW, AR, AUS)
1	A-1056-266-A	POWER BOARD, COMPLETE (MX, TW)		6	1-693-629-11	TUNER (FM/AM) (AEP, UK, KR)	
1	A-1056-495-A	POWER BOARD, COMPLETE (EA)		7	4-246-784-01	FOOT RUBBER	
1	A-1056-526-A	POWER BOARD, COMPLETE (KR)		8	4-253-221-01	CABINET, REAR	
1	A-4750-273-A	POWER BOARD, COMPLETE (AEP, UK)		9	3-701-748-00	CLAMP	
1	A-4751-335-A	POWER BOARD, COMPLETE (US, CND)		10	1-500-386-11	FILTER, CLAMP (FERRITE CORE)	
2	A-4750-277-A	AMP BOARD, COMPLETE		△T902	1-443-246-11	TRANSFORMER, POWER	(E, E51, MX, SP, TW, AR, AUS)
3	A-4750-275-A	MAIN BOARD, COMPLETE		△T902	1-443-245-11	TRANSFORMER, POWER (AEP, UK)	
4	3-703-244-00	BUSHING (2104), CORD		△T902	1-443-244-11	TRANSFORMER, POWER (US, CND)	
△5	1-775-790-12	CORD, POWER (AUS)		△T902	1-443-396-11	TRANSFORMER, POWER (EA)	
△5	1-769-079-23	CORD, POWER (KR)		△T902	1-443-397-11	TRANSFORMER, POWER (KR)	
△5	1-769-744-52	CORD, POWER (AEP, UK, E51, SP)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
△5	1-696-570-21	CORD, POWER (EA)		#8	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
△5	1-783-531-22	CORD, POWER (US, CND)		#5	7-685-661-14	SCREW +BVTP 4X12 TYPE2 N-S	
△5	1-829-387-11	CORD, POWER (AR)					
△5	1-827-226-11	CORD, POWER (E, MX)					
△5	1-827-597-31	CORD, POWER (TW)					

7-2. FRONT PANEL ASSY-1



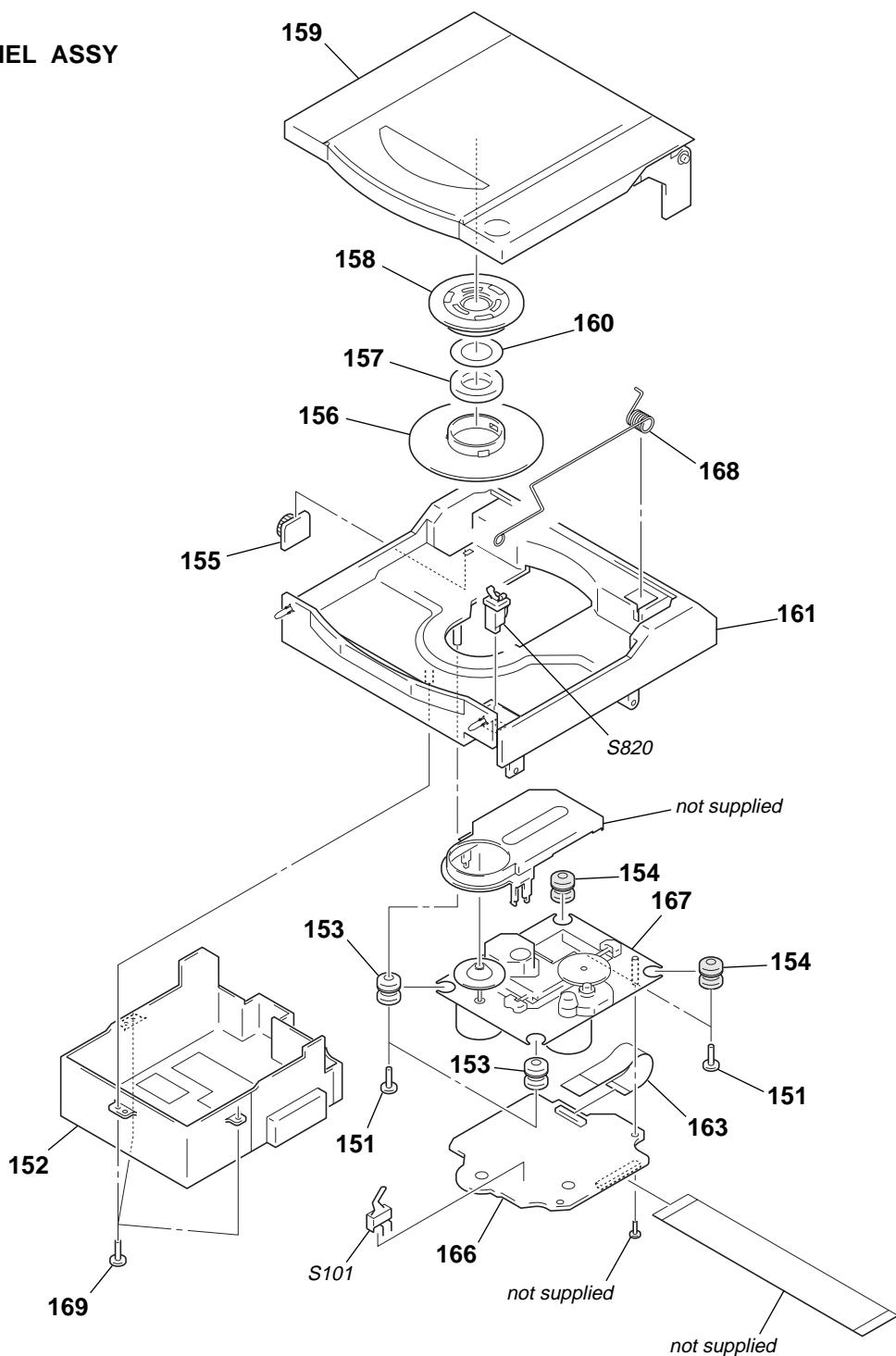
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-253-222-01	KNOB, VOLUME		54	A-1056-524-A	CONTROL BOARD, COMPLETE (KR)	
54	A-1055-611-A	CONTROL BOARD, COMPLETE (SP)		54	A-4750-270-A	CONTROL BOARD, COMPLETE (AEP, UK)	
54	A-1056-204-A	CONTROL BOARD, COMPLETE (E, E51, AR)		54	A-4751-333-A	CONTROL BOARD, COMPLETE (US, CND)	
54	A-1056-001-A	CONTROL BOARD, COMPLETE (TW, AUS)		55	3-921-725-01	SCREW (2.6X10), +PWH	
54	A-1056-250-A	CONTROL BOARD, COMPLETE (MX)		57	4-951-620-11	SCREW (2.6X10), +BVTP	
54	A-1056-496-A	CONTROL BOARD, COMPLETE (EA)					

7-3. FRONT PANEL ASSY-2



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-4956-276-1	LID, CASS ASSY (X)		106	X-4956-277-1	PANEL ASSY, FRONT (US, CND)	
102	4-245-034-01	SPRING (CASSETTE)		107	4-231-841-01	SPRING (HEART CAM-B)	
103	4-245-018-01	HOLDER (CASSETTE)		108	4-231-825-01	CAM (B), HEART	
104	4-238-631-01	TAPE SPRING		109	4-224-104-41	DAMPER	
105	4-246-784-01	FOOT RUBBER		110	1-796-352-41	DECK, MECHANICAL (CMAL5Z220A)	
106	X-2022-201-1	PANEL ASSY, FRONT (E, E51, EA, MX, SP, TW, AR, AUS)		111	4-951-620-11	SCREW (2.6X10), +BVTP	
106	X-4956-274-1	PANEL ASSY, FRONT (AEP, UK, KR)		112	3-701-748-00	CLAMP	
				#6	7-685-862-09	SCREW +BVTT 2.6X6 (S)	

7-4. TOP PANEL ASSY



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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	3-921-725-01	SCREW (2.6X10), +PWH		161	4-245-015-21	CABINET (TOP) (US, CND)	
152	4-247-493-01	COVER, CD		161	4-245-015-31	CABINET (TOP) (EXCEPT US, CND)	
153	3-931-379-31	RUBBER, VIBRATION PROOF (GREEN)		163	1-827-991-11	WIRE (FLAT TYPE) (16 CORE)	
154	3-931-379-21	RUBBER, VIBRATION PROOF (RED)		166	A-4751-032-A	BD BOARD, COMPLETE	
155	4-242-171-01	DAMPER 150 N		\triangle 167	8-820-221-01	OPTICAL PICK-UP KSM-213EDP/C2NP	
156	4-246-193-01	HOLDER, CHUCK A		168	4-248-711-11	SPRING (CD)	
157	4-249-238-01	MAGNET (18-30-5)		169	4-951-620-01	SCREW (2.6X8), +BVTP	
158	4-246-192-01	BASE, CHUCK N		S101	1-771-853-11	SWITCH, DETECTION (LIMIT)	
159	X-4956-278-1	CD ASSY, LID					
160	4-246-191-11	PLATE, MAGNET		S820	1-692-960-11	SWITCH, PUSH (1KEY) (CD LID OPEN/CLOSE DETECT)	

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	E51 : Chilean and Peruvian model
AUS : Australian model	EA : Saudi Arabia model
CND : Canadian model	KR : Korea 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 \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark				
	A-4750-277-A	AMP BOARD, COMPLETE	*****	R518	1-216-841-11	METAL CHIP	47K 5% 1/10W				
< CAPACITOR >											
C501	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	\triangle R519	1-215-889-00	METAL OXIDE	330 5% 2W F				
C503	1-126-947-11	ELECT	47uF 20% 35V	\triangle R520	1-215-889-00	METAL OXIDE	330 5% 2W F				
C505	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	*****							
C506	1-126-947-11	ELECT	47uF 20% 35V	BACK LIGHT BOARD							
C507	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	*****							
C509	1-126-949-11	ELECT	220uF 20% 35V	< LED >							
C510	1-126-949-11	ELECT	220uF 20% 35V	D701	8-719-075-50	LED SELS6B14C-TP5 (LCD BACK LIGHT)					
C511	1-136-177-00	FILM	1uF 5% 50V	D702	8-719-075-50	LED SELS6B14C-TP5 (LCD BACK LIGHT)					
C512	1-136-177-00	FILM	1uF 5% 50V	D703	8-719-075-50	LED SELS6B14C-TP5 (LCD BACK LIGHT)					
C513	1-136-177-00	FILM	1uF 5% 50V	< RESISTOR >							
C514	1-136-177-00	FILM	1uF 5% 50V	R707	1-216-810-11	METAL CHIP	120 5% 1/10W				
C516	1-126-933-11	ELECT	100uF 20% 16V	R708	1-216-810-11	METAL CHIP	120 5% 1/10W				
< CONNECTOR >											
CN501	1-564-507-11	PLUG, CONNECTOR 4P		R709	1-216-810-11	METAL CHIP	120 5% 1/10W				
< EARTH TERMINAL >											
EP903	1-537-770-21	TERMINAL BOARD, GROUND		R710	1-216-810-11	METAL CHIP	120 5% 1/10W				
< IC >											
IC501	8-759-333-24	IC LM1876TF		R711	1-216-810-11	METAL CHIP	120 5% 1/10W				
< CAPACITOR >											
A-4751-032-A BD BOARD, COMPLETE											

< RESISTOR >											
R501	1-216-821-11	METAL CHIP	1K 5% 1/10W	C10	1-165-989-11	CERAMIC CHIP	10uF 10% 6.3V				
R502	1-216-841-11	METAL CHIP	47K 5% 1/10W	C11	1-165-989-11	CERAMIC CHIP	10uF 10% 6.3V				
R503	1-216-819-11	METAL CHIP	680 5% 1/10W	C14	1-164-360-11	CERAMIC CHIP	0.1uF 16V				
R504	1-249-437-11	CARBON	47K 5% 1/4W	C15	1-164-360-11	CERAMIC CHIP	0.1uF 16V				
R505	1-216-841-11	METAL CHIP	47K 5% 1/10W	C16	1-115-156-11	CERAMIC CHIP	1uF 10V				
R506	1-216-821-11	METAL CHIP	1K 5% 1/10W	C17	1-126-923-11	ELECT	220uF 20% 16V				
R507	1-216-833-11	METAL CHIP	10K 5% 1/10W	C18	1-162-964-11	CERAMIC CHIP	0.001uF 50V				
R508	1-216-819-11	METAL CHIP	680 5% 1/10W	C111	1-162-967-11	CERAMIC CHIP	0.0033uF 50V				
R509	1-249-437-11	CARBON	47K 5% 1/4W	C112	1-164-315-11	CERAMIC CHIP	470PF 50V				
R511	1-216-839-11	METAL CHIP	33K 5% 1/10W	C113	1-162-967-11	CERAMIC CHIP	0.0033uF 50V				
R512	1-216-839-11	METAL CHIP	33K 5% 1/10W	C114	1-164-315-11	CERAMIC CHIP	470PF 50V				
R514	1-216-833-11	METAL CHIP	10K 5% 1/10W	C115	1-164-360-11	CERAMIC CHIP	0.1uF 16V				
\triangle R515	1-216-373-81	METAL OXIDE	2.2 5% 2W F	C116	1-126-923-11	ELECT	220uF 20% 16V				
\triangle R516	1-216-373-81	METAL OXIDE	2.2 5% 2W F	C117	1-164-360-11	CERAMIC CHIP	0.1uF 16V				
R517	1-216-842-11	METAL CHIP	56K 5% 1/10W	C122	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V				
< CAPACITOR >											
C123											
C124											

BD	CONTROL
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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	
C125	1-164-360-11	CERAMIC CHIP	0.1uF	16V	JR111	1-216-296-11	SHORT CHIP	0
C131	1-162-927-11	CERAMIC CHIP	100PF	5%	50V		< TRANSISTOR >	
C132	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V			
C133	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	Q10	6-550-363-01	TRANSISTOR
C141	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		2SB1690KT146	
C142	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V		< RESISTOR/FERRITE BEAD >	
C143	1-164-360-11	CERAMIC CHIP	0.1uF		16V			
C151	1-126-923-11	ELECT	220uF	20%	16V	R10	1-216-791-11	METAL CHIP
C160	1-164-360-11	CERAMIC CHIP	0.1uF	16V	R11	1-216-864-11	SHORT CHIP	3.3
C161	1-164-360-11	CERAMIC CHIP	0.1uF	16V	R12	1-216-845-11	METAL CHIP	5%
C162	1-164-360-11	CERAMIC CHIP	0.1uF	16V	R13	1-218-446-11	METAL CHIP	100K
C163	1-164-360-11	CERAMIC CHIP	0.1uF	16V	R111	1-216-821-11	METAL CHIP	1
C164	1-164-360-11	CERAMIC CHIP	0.1uF	16V	R112	1-216-835-11	METAL CHIP	5%
C170	1-126-934-11	ELECT	220uF	20%	R113	1-216-821-11	METAL CHIP	15K
C171	1-162-919-11	CERAMIC CHIP	22PF	5%	R114	1-216-835-11	METAL CHIP	1K
C172	1-162-920-11	CERAMIC CHIP	27PF	5%	R121	1-216-835-11	METAL CHIP	15K
C174	1-164-360-11	CERAMIC CHIP	0.1uF	16V	R131	1-216-857-11	METAL CHIP	15K
C181	1-164-360-11	CERAMIC CHIP	0.1uF	16V	R132	1-216-833-11	METAL CHIP	1M
C182	1-164-360-11	CERAMIC CHIP	0.1uF	16V	R133	1-216-848-11	METAL CHIP	5%
C183	1-126-923-11	ELECT	220uF	20%	R141	1-216-829-11	METAL CHIP	180K
C184	1-126-923-11	ELECT	220uF	20%	R142	1-216-821-11	METAL CHIP	4.7K
C185	1-164-315-11	CERAMIC CHIP	470PF	5%	R143	1-216-827-11	METAL CHIP	1K
C186	1-164-315-11	CERAMIC CHIP	470PF	5%	R151	1-216-864-11	SHORT CHIP	50V
C194	1-164-360-11	CERAMIC CHIP	0.1uF	16V	R161	1-216-809-11	METAL CHIP	3.3
C195	1-164-360-11	CERAMIC CHIP	0.1uF	16V	R162	1-216-841-11	METAL CHIP	5%
C201	1-126-923-11	ELECT	220uF	20%	R171	1-216-817-11	METAL CHIP	100K
C202	1-164-360-11	CERAMIC CHIP	0.1uF	16V	R172	1-216-857-11	METAL CHIP	47K
C203	1-126-923-11	ELECT	220uF	20%	R173	1-216-295-00	SHORT CHIP	1
C210	1-107-826-11	CERAMIC CHIP	0.1uF	10%	R181	1-216-809-11	METAL CHIP	5%
C211	1-164-230-11	CERAMIC CHIP	220PF	5%	R182	1-216-809-11	METAL CHIP	100
C212	1-162-919-11	CERAMIC CHIP	22PF	5%	R201	1-500-445-21	FERRITE, EMI (SMD) (2012)	5%
C213	1-162-919-11	CERAMIC CHIP	22PF	5%	R202	1-216-864-11	SHORT CHIP	1/10W
C251	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	R204	1-500-445-21	FERRITE, EMI (SMD) (2012)	
C252	1-164-360-11	CERAMIC CHIP	0.1uF	16V	R251	1-216-833-11	METAL CHIP	10K
C257	1-164-360-11	CERAMIC CHIP	0.1uF	16V	R252	1-216-837-11	METAL CHIP	22K
C258	1-164-360-11	CERAMIC CHIP	0.1uF	16V	R406	1-216-809-11	METAL CHIP	5%
C259	1-164-360-11	CERAMIC CHIP	0.1uF	16V	R407	1-216-809-11	METAL CHIP	1/10W
		< CONNECTOR >		R408	1-216-809-11	METAL CHIP	100	
CN101	1-793-907-11	CONNECTOR, FFC/FPC 16P		R409	1-216-809-11	METAL CHIP	5%	
CN201	1-568-860-11	SOCKET, CONNECTOR 17P		R410	1-216-809-11	METAL CHIP	1/10W	
		< IC >		R411	1-216-809-11	METAL CHIP	100	
IC101	8-752-425-11	IC CXD3058AR		R412	1-216-809-11	METAL CHIP	5%	
IC251	6-705-808-01	IC BA5947FM					1/10W	
		< SHORT >						
JR101	1-216-296-11	SHORT CHIP	0		A-1055-611-A	CONTROL BOARD, COMPLETE (SP)		
JR102	1-216-296-11	SHORT CHIP	0		A-1056-001-A	CONTROL BOARD, COMPLETE (TW, AUS)		
JR103	1-216-296-11	SHORT CHIP	0		A-1056-204-A	CONTROL BOARD, COMPLETE (E, E51, AR)		
JR104	1-216-296-11	SHORT CHIP	0		A-1056-250-A	CONTROL BOARD, COMPLETE (MX)		
JR105	1-216-296-11	SHORT CHIP	0		A-1056-496-A	CONTROL BOARD, COMPLETE (EA)		
JR106	1-216-296-11	SHORT CHIP	0		A-1056-524-A	CONTROL BOARD, COMPLETE (KR)		
JR107	1-216-296-11	SHORT CHIP	0		A-4750-270-A	CONTROL BOARD, COMPLETE (AEP, UK)		
JR108	1-216-864-11	SHORT CHIP	0		A-4751-333-A	CONTROL BOARD, COMPLETE (US, CND)		
JR109	1-216-296-11	SHORT CHIP	0				*****	
JR110	1-216-296-11	SHORT CHIP	0		4-245-030-01	HOLDER (LCD)		
					4-245-801-01	SHEET (LCD)		

CONTROL

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark		
	4-248-365-01	SHEET (PLATE)		JR109	1-216-864-11	SHORT CHIP	0		
	4-248-366-01	SHEET (LIGHT)					< COIL >		
< CAPACITOR >									
C801	1-164-160-11	CERAMIC CHIP	20PF	5%	50V	L801	1-410-509-11	INDUCTOR	10uH
C802	1-162-919-11	CERAMIC CHIP	22PF	5%	50V			< LIQUID CRYSTAL DISPLAY >	
C803	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V	LCD801	1-805-530-11	DISPLAY PANEL, LIQUID CRYSTAL	
C804	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V			< TRANSISTOR >	
C805	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V	Q801	8-729-034-51	TRANSISTOR	KTC3875
C809	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V	Q802	8-729-037-13	TRANSISTOR	KTA1271Y
C810	1-124-222-91	ELECT	22uF	20%	6.3V	Q803	8-729-054-16	TRANSISTOR	KRC402-RTK
C811	1-124-234-00	ELECT	22uF	20%	16V	Q804	8-729-037-13	TRANSISTOR	KTA1271Y
C812	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V	Q805	8-729-054-16	TRANSISTOR	KRC402-RTK
C813	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	Q806	8-729-054-16	TRANSISTOR	KRC402-RTK
C814	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	Q808	8-729-034-51	TRANSISTOR	KTC3875
C815	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V			< RESISTOR >	
C816	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R701	1-216-839-11	METAL CHIP	33K
C823	1-104-655-91	ELECT	470uF	20%	6.3V			5% 1/10W	
C824	1-124-589-11	ELECT	47uF	20%	16V	R702	1-216-852-11	METAL CHIP	390K
C825	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R703	1-216-833-11	METAL CHIP	10K
C826	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R704	1-216-845-11	METAL CHIP	100K
C827	1-126-157-11	ELECT	10uF	20%	16V	R705	1-216-838-11	METAL CHIP	27K
C828	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V			(EXCEPT US, CND)	
C829	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V	R706	1-216-827-11	METAL CHIP	3.3K
C830	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V			(EXCEPT US, CND)	
C831	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	R801	1-216-809-11	METAL CHIP	100
C832	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V	R803	1-216-809-11	METAL CHIP	100
C834	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R804	1-216-809-11	METAL CHIP	100
< CONNECTOR >									
CNB302	1-784-780-11	CONNECTOR, FFC 19P			R805	1-216-809-11	METAL CHIP	100	
CNB303	1-691-040-31	CONNECTOR, FFC 8P			R806	1-216-821-11	METAL CHIP	1K	
CNB801	1-568-826-11	CONNECTOR, FFC 7P			R809	1-216-849-11	METAL CHIP	220K	
CNB802	1-568-830-11	CONNECTOR, FFC 11P			R810	1-216-809-11	METAL CHIP	100	
< DIODE >									
D801	8-719-991-33	DIODE	1SS133T-77		R811	1-216-809-11	METAL CHIP	100	
D806	8-719-060-44	DIODE	SLR-342VRT32		R812	1-216-809-11	METAL CHIP	100	
D807	8-719-991-33	DIODE	1SS133T-77		R813	1-216-837-11	METAL CHIP	22K	
D808	8-719-991-33	DIODE	1SS133T-77		R814	1-216-841-11	METAL CHIP	47K	
D809	8-719-991-33	DIODE	1SS133T-77		R815	1-216-809-11	METAL CHIP	100	
D810	8-719-991-33	DIODE	1SS133T-77		R816	1-216-837-11	METAL CHIP	22K	
D811	8-719-991-33	DIODE	1SS133T-77		R818	1-216-809-11	METAL CHIP	100	
D812	8-719-991-33	DIODE	1SS133T-77		R820	1-216-842-11	METAL CHIP	56K	
< IC >									
IC801	6-804-383-01	IC	LC877456C-53K5-E		R822	1-216-809-11	METAL CHIP	100	
IC802	6-600-309-01	IC	RPM7240-H9		R823	1-216-809-11	METAL CHIP	100	
IC803	8-759-532-64	IC	M62703SL-TP		R824	1-216-809-11	METAL CHIP	100	
< SHORT >									
JR101	1-216-864-11	SHORT CHIP	0		R825	1-216-809-11	METAL CHIP	100	
JR102	1-216-864-11	SHORT CHIP	0		R826	1-216-809-11	METAL CHIP	100	
JR103	1-216-864-11	SHORT CHIP	0		R827	1-216-809-11	METAL CHIP	100	
JR104	1-216-864-11	SHORT CHIP	0		R831	1-216-809-11	METAL CHIP	100	
JR105	1-216-864-11	SHORT CHIP	0		R832	1-216-833-11	METAL CHIP	10K	
JR106	1-216-864-11	SHORT CHIP	0		R833	1-216-841-11	METAL CHIP	47K	
JR107	1-216-864-11	SHORT CHIP	0		R834	1-216-841-11	METAL CHIP	47K	
					R835	1-216-841-11	METAL CHIP	47K	
					R836	1-216-829-11	METAL CHIP	4.7K	
					R837	1-216-829-11	METAL CHIP	4.7K	
					R838	1-216-809-11	METAL CHIP	100	
					R839	1-216-809-11	METAL CHIP	100	

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C204	1-104-665-11	ELECT	100uF 20% 25V	C354	1-126-961-11	ELECT	2.2uF 20% 50V
C206	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V	C355	1-130-485-00	MYLAR	0.015uF 5% 50V
C207	1-126-961-11	ELECT	2.2uF 20% 50V	C356	1-130-481-00	MYLAR	0.0068uF 5% 50V
C208	1-162-967-11	CERAMIC CHIP	0.0033uF 10% 50V	C357	1-130-481-00	MYLAR	0.0068uF 5% 50V
C209	1-162-962-11	CERAMIC CHIP	470PF 10% 50V	C358	1-130-486-00	MYLAR	0.018uF 5% 50V
C210	1-164-218-11	CERAMIC CHIP	180PF 5% 50V	C360	1-126-964-11	ELECT	10uF 20% 50V
C211	1-162-967-11	CERAMIC CHIP	0.0033uF 10% 50V	C361	1-126-947-11	ELECT	47uF 20% 35V
C212	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	C362	1-126-964-11	ELECT	10uF 20% 50V
C213	1-126-957-11	ELECT	0.22uF 20% 50V	C370	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C214	1-126-959-11	ELECT	0.47uF 20% 50V	< CONNECTOR >			
C215	1-126-963-11	ELECT	4.7uF 20% 50V	CN302	1-784-780-11	CONNECTOR, FFC 19P	
C216	1-162-962-11	CERAMIC CHIP	470PF 10% 50V	CN303	1-691-040-31	CONNECTOR, FFC 8P	
C217	1-164-730-11	CERAMIC CHIP	0.0012uF 10% 50V	CN305	1-784-778-11	CONNECTOR, FFC 17P	
C218	1-164-677-11	CERAMIC CHIP	0.033uF 10% 16V	CN309	1-564-506-11	PLUG, CONNECTOR 3P	
C219	1-107-726-91	CERAMIC CHIP	0.01uF 10% 16V	CNB307	1-564-509-11	PLUG, CONNECTOR 6P	
C221	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	* CNB308 1-564-512-11 PLUG, CONNECTOR 9P			
C226	1-162-960-11	CERAMIC CHIP	220PF 10% 50V	< DIODE >			
C227	1-162-962-11	CERAMIC CHIP	470PF 10% 50V	D301	8-719-991-33	DIODE 1SS133T-77	
C232	1-126-963-11	ELECT	4.7uF 20% 50V	D302	8-719-991-33	DIODE 1SS133T-77	
C233	1-130-491-00	MYLAR	0.047uF 5% 50V	D303	8-719-109-72	DIODE RD3.9ESB2	
C234	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	D304	8-719-109-72	DIODE RD3.9ESB2	
C235	1-126-964-11	ELECT	10uF 20% 50V	D305	8-719-983-20	DIODE MTZJ-T-77-4.3C	
C236	1-126-964-11	ELECT	10uF 20% 50V	D306	8-719-983-20	DIODE MTZJ-T-77-4.3C	
C301	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V	D307	8-719-991-33	DIODE 1SS133T-77	
C302	1-104-655-91	ELECT	470uF 20% 6.3V	D308	8-719-991-33	DIODE 1SS133T-77	
C305	1-104-655-91	ELECT	470uF 20% 6.3V	D310	8-719-983-20	DIODE MTZJ-T-77-4.3C	
C308	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	D317	8-719-991-33	DIODE 1SS133T-77	
C309	1-126-767-11	ELECT	1000uF 20% 16V	D318	8-719-991-33	DIODE 1SS133T-77	
C310	1-127-888-21	CERAMIC	0.1uF 10% 50V	D321	8-719-991-33	DIODE 1SS133T-77	
C311	1-128-809-11	CERAMIC	100PF 5% 50V	D322	8-719-991-33	DIODE 1SS133T-77	
C312	1-162-960-11	CERAMIC CHIP	220PF 10% 50V	< FERRITE BEAD >			
C313	1-126-933-11	ELECT	100uF 20% 16V				
C314	1-137-150-11	FILM	0.01uF 5% 100V				
C315	1-128-809-11	CERAMIC	100PF 5% 50V				
C316	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	FB301	1-412-473-21	INDUCTOR (SMALL TYPE)	
C317	1-128-809-11	CERAMIC	100PF 5% 50V	FB302	1-412-473-21	INDUCTOR (SMALL TYPE)	
C318	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	FB317	1-500-445-21	FERRITE, EMI (SMD) (2012)	
C319	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	< IC >			
C320	1-107-726-91	CERAMIC CHIP	0.01uF 10% 16V	IC302	6-702-895-01	IC BD3881FV	
C321	1-115-416-11	CERAMIC CHIP	0.001uF 5% 25V	< JACK >			
C322	1-115-416-11	CERAMIC CHIP	0.001uF 5% 25V				
C323	1-126-943-11	ELECT	2200uF 20% 25V				
C324	1-126-934-11	ELECT	220uF 20% 16V	J302	1-536-708-81	TERMINAL BOARD, PUSH (4P) (SPEAKER IMPEDANCE USE 8-16Ω)	
C326	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	J303	1-778-940-11	JACK 2P (MD)	
C328	1-126-935-11	ELECT	470uF 20% 16V	< CAPACITOR/COIL >			
C329	1-126-916-11	ELECT	1000uF 20% 6.3V				
C330	1-104-665-11	ELECT	100uF 20% 25V	JW120	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C331	1-107-726-91	CERAMIC CHIP	0.01uF 10% 16V	JW323	1-410-509-11	INDUCTOR	10uH
C332	1-126-927-11	ELECT	2200uF 20% 10V	< COIL >			
C333	1-126-969-11	ELECT	220uF 20% 50V				
C335	1-107-726-91	CERAMIC CHIP	0.01uF 10% 16V				
C336	1-126-965-11	ELECT	22uF 20% 50V	L101	1-422-009-13	COIL, AIR-CORE	
C345	1-126-964-11	ELECT	10uF 20% 50V	L201	1-422-009-13	COIL, AIR-CORE	
C346	1-126-768-11	ELECT	2200uF 20% 16V	< TRANSISTOR >			
C351	1-104-665-11	ELECT	100uF 20% 25V				
C352	1-126-953-11	ELECT	2200uF 20% 35V	Q311	8-729-037-13	TRANSISTOR	KTA1271Y
C353	1-126-953-11	ELECT	2200uF 20% 35V	Q312	8-729-036-86	TRANSISTOR	KTC3203Y-AT

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q313	8-729-036-86	TRANSISTOR	KTC3203Y-AT	R201	1-216-834-11	METAL CHIP	12K 5% 1/10W
Q314	8-729-037-13	TRANSISTOR	KTA1271Y	R202	1-216-840-11	METAL CHIP	39K 5% 1/10W
Q315	8-729-054-16	TRANSISTOR	KRC402-RTK	R203	1-216-817-11	METAL CHIP	470 5% 1/10W
Q317	8-729-028-54	TRANSISTOR	KTC3205	R204	1-216-805-11	METAL CHIP	47 5% 1/10W
Q319	8-729-040-76	TRANSISTOR	KTA1273-Y-AT	R205	1-216-852-11	METAL CHIP	390K 5% 1/10W
Q320	8-729-054-16	TRANSISTOR	KRC402-RTK	R206	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
Q326	8-729-034-50	TRANSISTOR	KTA1504	R207	1-216-847-11	METAL CHIP	150K 5% 1/10W
Q327	8-729-034-50	TRANSISTOR	KTA1504	R208	1-216-835-11	METAL CHIP	15K 5% 1/10W
Q328	8-729-045-62	FET	2SK2158-T2B	R209	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q329	8-729-045-62	FET	2SK2158-T2B	R211	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q330	8-729-045-62	FET	2SK2158-T2B	R212	1-216-839-11	METAL CHIP	33K 5% 1/10W
Q331	8-729-054-03	TRANSISTOR	KRA303-RTK	R213	1-216-817-11	METAL CHIP	470 5% 1/10W
Q332	8-729-054-03	TRANSISTOR	KRA303-RTK	R214	1-216-818-11	METAL CHIP	560 5% 1/10W
Q333	8-729-054-16	TRANSISTOR	KRC402-RTK	R215	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
Q338	8-729-054-16	TRANSISTOR	KRC402-RTK	R216	1-216-832-11	METAL CHIP	8.2K 5% 1/10W
Q339	8-729-036-86	TRANSISTOR	KTC3203Y-AT	R217	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q342	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R218	1-216-867-11	METAL CHIP	6.8K 0.5% 1/10W
Q343	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R219	1-216-824-11	METAL CHIP	1.8K 5% 1/10W
Q344	8-729-142-46	TRANSISTOR	2SC2001-LK	R220	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q345	8-729-142-46	TRANSISTOR	2SC2001-LK	R221	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q346	8-729-801-93	TRANSISTOR	2SD1387-3	R222	1-216-843-11	METAL CHIP	68K 5% 1/10W
Q347	8-729-037-03	TRANSISTOR	KTA1266GR-AT	R223	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q348	8-729-036-58	TRANSISTOR	KRC102M-AT	R224	1-216-835-11	METAL CHIP	15K 5% 1/10W
	< RESISTOR >			R225	1-216-837-11	METAL CHIP	22K 5% 1/10W
R100	1-216-812-11	METAL CHIP	180 5% 1/10W	R226	1-216-837-11	METAL CHIP	22K 5% 1/10W
R101	1-216-834-11	METAL CHIP	12K 5% 1/10W	R228	1-216-822-11	METAL CHIP	1.2K 5% 1/10W
R102	1-216-840-11	METAL CHIP	39K 5% 1/10W	R231	1-216-822-11	METAL CHIP	1.2K 5% 1/10W
R103	1-216-817-11	METAL CHIP	470 5% 1/10W	R232	1-216-821-11	METAL CHIP	1K 5% 1/10W
R104	1-216-805-11	METAL CHIP	47 5% 1/10W	R236	1-216-833-11	METAL CHIP	10K 5% 1/10W
R105	1-216-852-11	METAL CHIP	390K 5% 1/10W	R237	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R106	1-216-830-11	METAL CHIP	5.6K 5% 1/10W	R243	1-216-832-11	METAL CHIP	8.2K 5% 1/10W
R107	1-216-847-11	METAL CHIP	150K 5% 1/10W	R301	1-216-841-11	METAL CHIP	47K 5% 1/10W
R108	1-216-835-11	METAL CHIP	15K 5% 1/10W	R302	1-216-835-11	METAL CHIP	15K 5% 1/10W
R109	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R303	1-216-833-11	METAL CHIP	10K 5% 1/10W
R111	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R304	1-216-821-11	METAL CHIP	1K 5% 1/10W
R112	1-216-839-11	METAL CHIP	33K 5% 1/10W	R305	1-216-809-11	METAL CHIP	100 5% 1/10W
R113	1-216-817-11	METAL CHIP	470 5% 1/10W	R315	1-216-821-11	METAL CHIP	1K 5% 1/10W
R114	1-216-818-11	METAL CHIP	560 5% 1/10W	R317	1-216-841-11	METAL CHIP	47K 5% 1/10W
R115	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R318	1-216-817-11	METAL CHIP	470 5% 1/10W
R116	1-216-832-11	METAL CHIP	8.2K 5% 1/10W	R319	1-216-857-11	METAL CHIP	1M 5% 1/10W
R117	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R320	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R118	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	R321	1-216-845-11	METAL CHIP	100K 5% 1/10W
R119	1-216-824-11	METAL CHIP	1.8K 5% 1/10W	R322	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
R120	1-216-833-11	METAL CHIP	10K 5% 1/10W	R323	1-216-821-11	METAL CHIP	1K 5% 1/10W
R121	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R324	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R122	1-216-843-11	METAL CHIP	68K 5% 1/10W	R325	1-216-845-11	METAL CHIP	100K 5% 1/10W
R123	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R326	1-216-845-11	METAL CHIP	100K 5% 1/10W
R124	1-216-835-11	METAL CHIP	15K 5% 1/10W	R327	1-216-833-11	METAL CHIP	10K 5% 1/10W
R125	1-216-837-11	METAL CHIP	22K 5% 1/10W	R332	1-216-821-11	METAL CHIP	1K 5% 1/10W
R126	1-216-837-11	METAL CHIP	22K 5% 1/10W	R336	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R128	1-216-822-11	METAL CHIP	1.2K 5% 1/10W	R348	1-216-821-11	METAL CHIP	1K 5% 1/10W
R131	1-216-822-11	METAL CHIP	1.2K 5% 1/10W	R349	1-216-842-11	METAL CHIP	56K 5% 1/10W
R132	1-216-821-11	METAL CHIP	1K 5% 1/10W	R350	1-216-833-11	METAL CHIP	10K 5% 1/10W
R136	1-216-833-11	METAL CHIP	10K 5% 1/10W	R351	1-216-833-11	METAL CHIP	10K 5% 1/10W
R137	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R352	1-249-413-11	CARBON	470 5% 1/4W
R143	1-216-832-11	METAL CHIP	8.2K 5% 1/10W	▲ R353	1-212-958-00	FUSIBLE	10 5% 1/2W F
R200	1-216-812-11	METAL CHIP	180 5% 1/10W	R358	1-216-842-11	METAL CHIP	56K 5% 1/10W

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.

MAIN **POWER** **REG**

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.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
MISCELLANEOUS			

△ 5	1-696-570-21	CORD, POWER (EA)	
△ 5	1-775-790-12	CORD, POWER (AUS)	
△ 5	1-769-079-23	CORD, POWER (KR)	
△ 5	1-769-744-52	CORD, POWER (AEP, UK, E51, SP)	
△ 5	1-783-531-22	CORD, POWER (US, CND)	
△ 5	1-829-387-11	CORD, POWER (AR)	
△ 5	1-827-226-11	CORD, POWER (E, MX)	
△ 5	1-827-597-31	CORD, POWER (TW)	
6	1-693-625-11	TUNER (FM/AM) (US, CND)	
6	1-693-628-11	TUNER (FM/AM) (E, E51, EA, MX, SP, TW, AR, AUS)	
6	1-693-629-11	TUNER (FM/AM) (AEP, UK, KR)	
10	1-500-386-11	FILTER, CLAMP (FERRITE CORE)	
110	1-796-352-41	DECK, MECHANICAL (CMAL5Z220A)	
163	1-827-991-11	WIRE (FLAT TYPE) (16 CORE)	
△ 167	8-820-221-01	OPTICAL PICK-UP KSM-213EDP/C2NP (E, E51, SP, TW, AR, AUS)	
△ T902	1-443-245-11	TRANSFORMER, POWER (AEP, UK)	
△ T902	1-443-244-11	TRANSFORMER, POWER (US, CND)	
△ T902	1-443-396-11	TRANSFORMER, POWER (EA)	
△ T902	1-443-397-11	TRANSFORMER, POWER (KR)	
△ T902	1-443-246-11	TRANSFORMER, POWER (E, E51, SP, TW, AR, AUS)	
S101	1-771-853-11	SWITCH, DETECTION (LIMIT)	
S820	1-692-960-11	SWITCH, PUSH (1KEY) (CD LID OPEN/CLOSE DETECT)	

ACCESSORIES

△	1-569-008-32	ADAPTOR, CONVERSION (E51, SP)
△	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)

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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