

HCD-XG55

SERVICE MANUAL

Mexican Model

Ver 1.0 2002.08



HCD-XG55 is the amplifier, CD player, tape deck and tuner section in LBT-XG55.

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CD Section	Model Name Using Similar Mechanism	HCD-XG60/XG500
	CD Mechanism Type	CDM37M-5BD32L
	Base Unit Name	BU-5BD32L
	Optical Pick-up Name	KSS-213DH
Tape Section	Model Name Using Similar Mechanism	HCD-XG60/XG500
	Tape Transport Mechanism Type	TCM-230PWR42

SPECIFICATIONS

Amplifier section

Continuous RMS power output (reference)	160 + 160 watts (6 ohms at 1 kHz, 10% THD)
Total harmonic distortion	less than 0.07% (6 ohms at 1 kHz, 70 W)
Inputs	
PHONO IN: (phono jacks)	sensitivity 3 mV, impedance 47 kilohms
MIX MIC: (phone jack)	sensitivity 1 mV, impedance 10 kilohms
VIDEO IN: (phono jacks)	sensitivity 250 mV, impedance 47 kilohms
GAME IN: (phono jacks)	sensitivity 250 mV, impedance 47 kilohms
MD IN: (phono jack)	sensitivity 450 mV, impedance 47 kilohms
Outputs	
PHONES: (stereo phone jack)	accepts headphones of 8 ohms or more
VIDEO OUT: (phono jack)	voltage 250 mV impedance 1 kilohm
MD OUT: (phono jacks)	voltage 250 mV impedance 1 kilohm
FRONT SPEAKER:	accepts impedance of 6 to 16 ohms

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser ($\lambda=780\text{nm}$), Emission duration: continuous
Wavelength	780 – 790 nm
Frequency response	2 Hz – 20 kHz (± 0.5 dB)
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB

Tape player section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF)	40 – 13,000 Hz (± 3 dB), using Sony TYPE I cassette
	40 – 14,000 Hz (± 3 dB), using Sony TYPE II cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz (50 kHz step)
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	530 – 1,710 kHz (with the interval set at 10 kHz)
	531 – 1,710 kHz (with the interval set at 9 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	120 V AC, 50/60 Hz
Power consumption	240 watts
Dimensions (w/h/d)	Approx. 355 x 425 x 450 mm
Mass :	Approx. 13.5 kg
Supplied accessories:	AM loop antenna (1) FM lead antenna (1) Speaker cords (2) Speaker pads (8) Remote commander (1) Batteries (2)

Design and specifications are subject to change without notice.

COMPACT DISC DECK RECEIVER

9-874-114-01
2002H1600-1
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Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

SONY®

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SECTION 1 SERVICING NOTES

Notes on chip component replacement

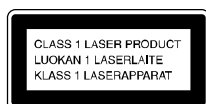
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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.

The following caution label is located inside the unit.



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

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

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

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

NOTES ON LASER DIODE EMISSION CHECK

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

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the "S curve check" in "CD section adjustment" and check that the S curve waveforms is output three times.

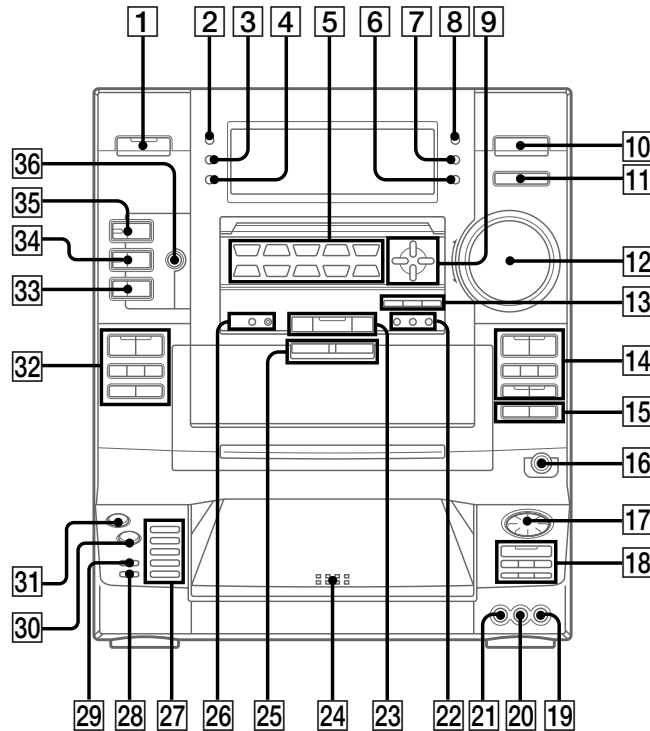
SAFETY-RELATED COMPONENT WARNING!!

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.

SECTION 2
GENERAL

This section is extracted from instruction manual.

LOCATION OF CONTROLS
– Front Panel –



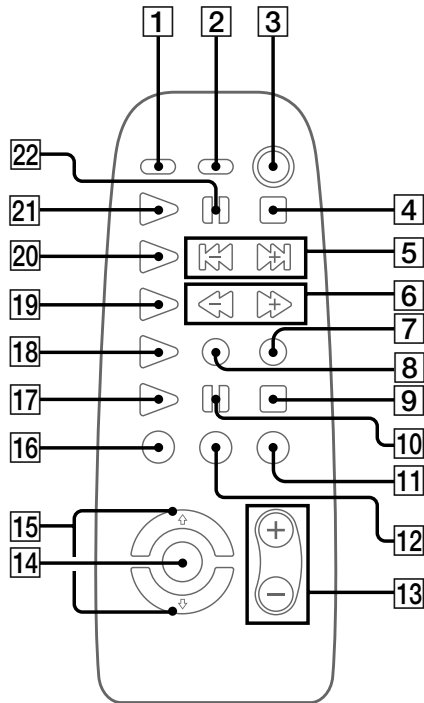
- A EJECT ▲/▲ B EJECT 25 (15)
- AUDIO L 20 (22)
- AUDIO R 19 (22)
- CD SYNC 15 (16,17)
- Control VOLUME 12 (9,13,24)
- Jog dial (AMSI◀◀/▶▶) 17 (9,15)
- DIRECT EQUALIZER 5 (18)
- SALSA
- REGGAE
- SAMBA
- TANGO
- MOVIE
- GUITAR
- ROCK
- JAZZ
- DANCE
- GAME
- DIRECTION 32 (15,16,17)
- DISC SKIP 18 (9,10,17)
- DISC 1-5 27 (9)
- DISPLAY 3 (8,11,13)
- DOLBY NR 32 (15,16,26)
- EDIT 29 (17)

- ENTER 26 (12,14)
- ENTER/NEXT 13 (8,17,19,21,25)
- FLASH 30 (11)
- FLAT 13 (18)
- FUNCTION 10 (7,9,10,16,17,22)
- GAME 11 (20,22)
- GROOVE 35 (18)
- H SPEED DUB 15 (16)
- LOOP 31 (7,11)
- NON STOP 28 (10)
- P FILE 13 (18,19)
- PLAY MODE 18 (9,10,17,25)
- POWER SAVE/DEMO (STANDBY) 2 (8)
- PTY 22 (14)
- PUSH OPEN 24 (9)
- REPEAT 18 (9)
- SLEEP 7 (20)
- SPECTRUM ANALYZER 4 (20)
- STEREO/MONO 22 (13,25)
- SUPER WOOFER 34 (18)
- SUPER WOOFER MODE 33 (18)
- SURROUND 36 (16,18)

- TIMER SELECT 8 (17,21)
- Toma PHONES 16
- TUNER/BAND 23 (12,13,16)
- TUNER MEMORY 26 (12)
- TUNING MODE 22 (12,13)
- VIDEO 21 (22)

BUTTON DESCRIPTION	
	1
	6
	9
	14
	14
	14/32
	14/32
	14/18/32
	18
	18
	23

Remote control



- AMS ◀◀/▶▶, PRESET+/- [5] (9,13,15)
- CD ▶ [21] (9)
- CHECK [8] (10)
- CLEAR [7] (10)
- DECK A ▶ [19]
- DECK B ▶ [18]
- DISC SKIP [1] (9,10,17)
- FILE SELECT ON/OFF [14] (18)
- FILE SELECT ↕/↔ [15] (11)
- FLASH [12] (11)
- FUNCTION [11] (7,9,10,16,17,22)
- LOOP [16] (7,11)
- MD ▶ [17]
- MD || [10]
- MD ■ [9]
- SLEEP [2] (20)
- TUNER/BAND [20] (12,13)
- VOL +/- [13] (9,13)

BUTTON DESCRIPTION

- I/⏻ [3]
- [4]
- ◀◀/▶▶ [6]
- || [22]

Setting the time

- 1** Turn on the system.
- 2** Press ⏻/CLOCK SET.
When you set the time for the first time, skip to the step 5.
- 3** Press ▲/▼ repeatedly to select SET CLOCK.
- 4** Press ENTER/NEXT.
- 5** Press ▲/▼ repeatedly to set the hour.
- 6** Press ENTER/NEXT.
The minute indication flashes.
- 7** Press ▲/▼ repeatedly to set the minute.
- 8** Press ENTER/NEXT.
The clock starts working.

Tip

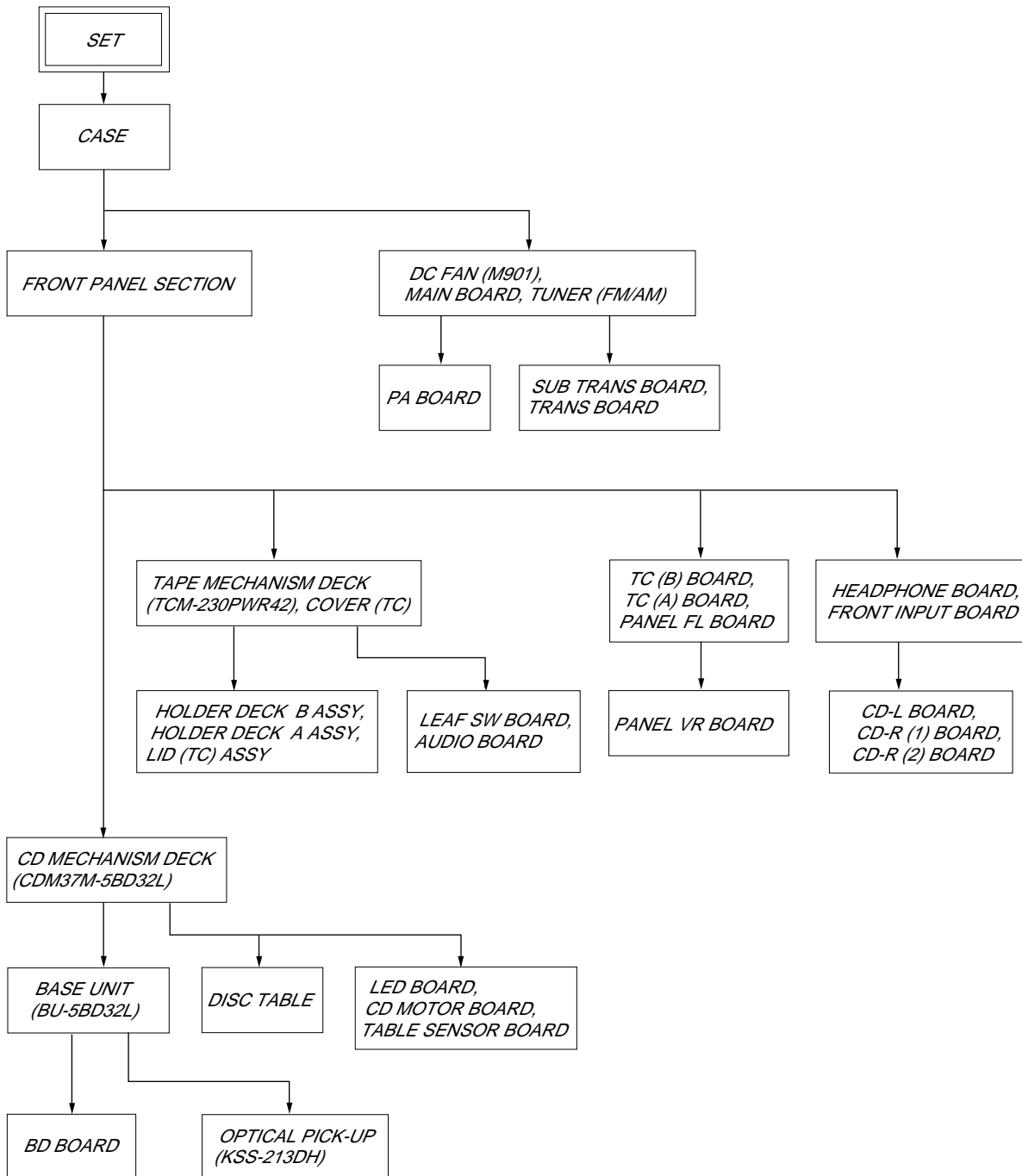
If you've made a mistake or want to change the time, start over from step 1.

Note

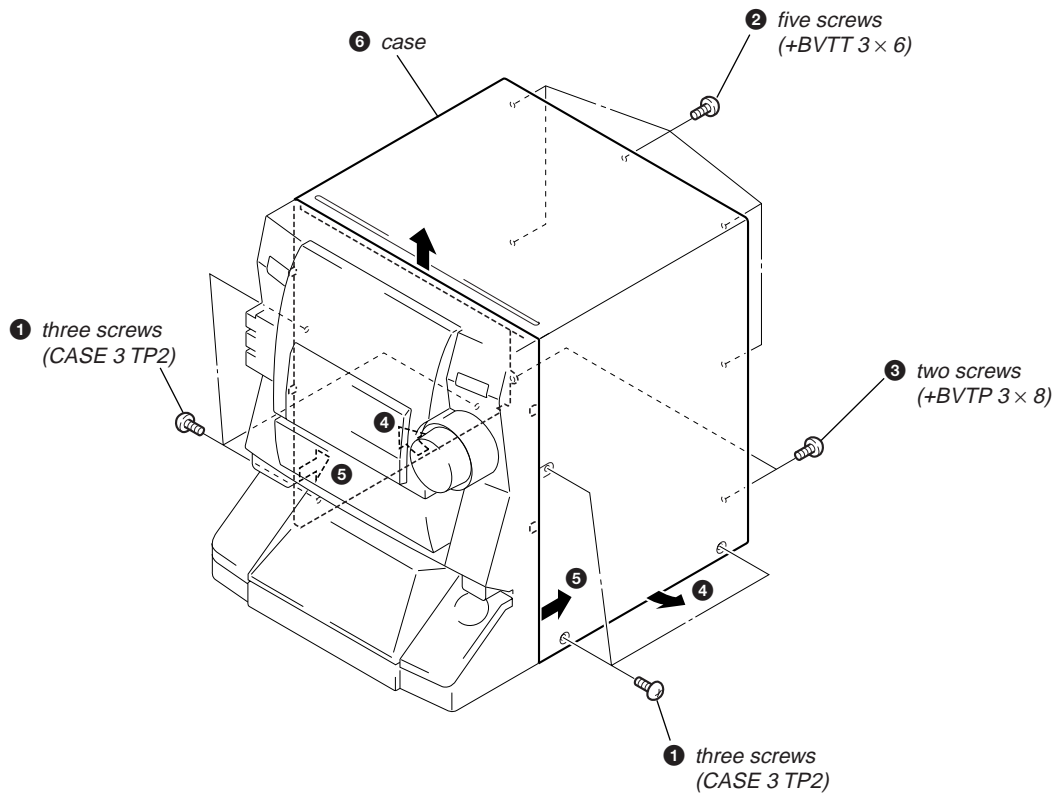
The clock settings are canceled when you disconnect the power cord or if a power failure occurs.

SECTION 3 DISASSEMBLY

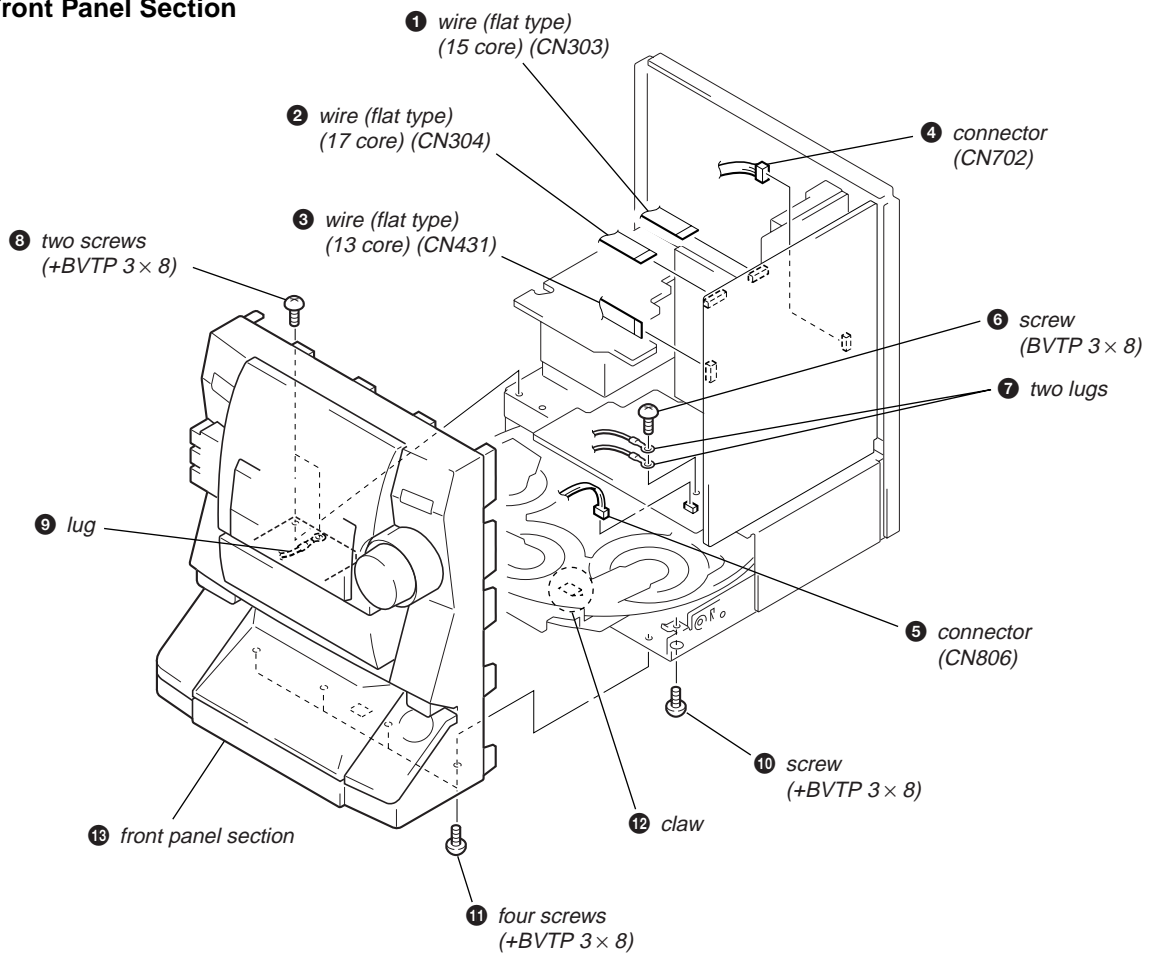
Note : Disassemble the unit in the order as shown below.



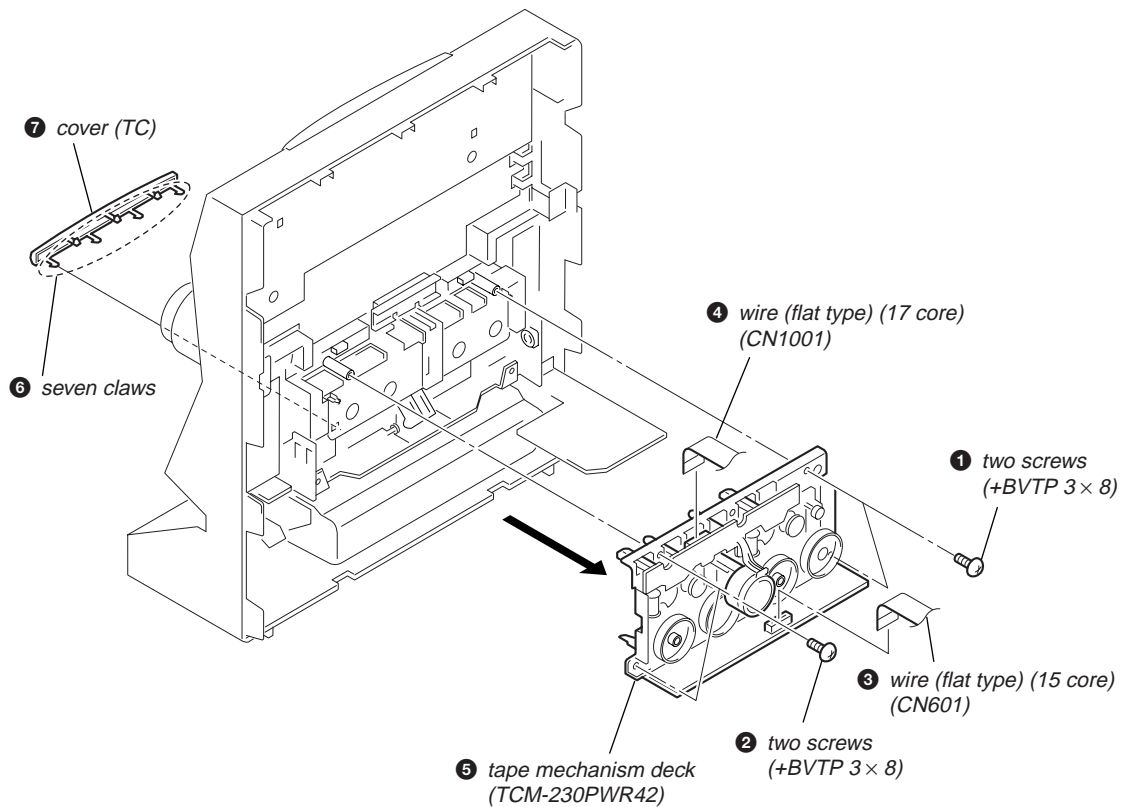
3-1. Case



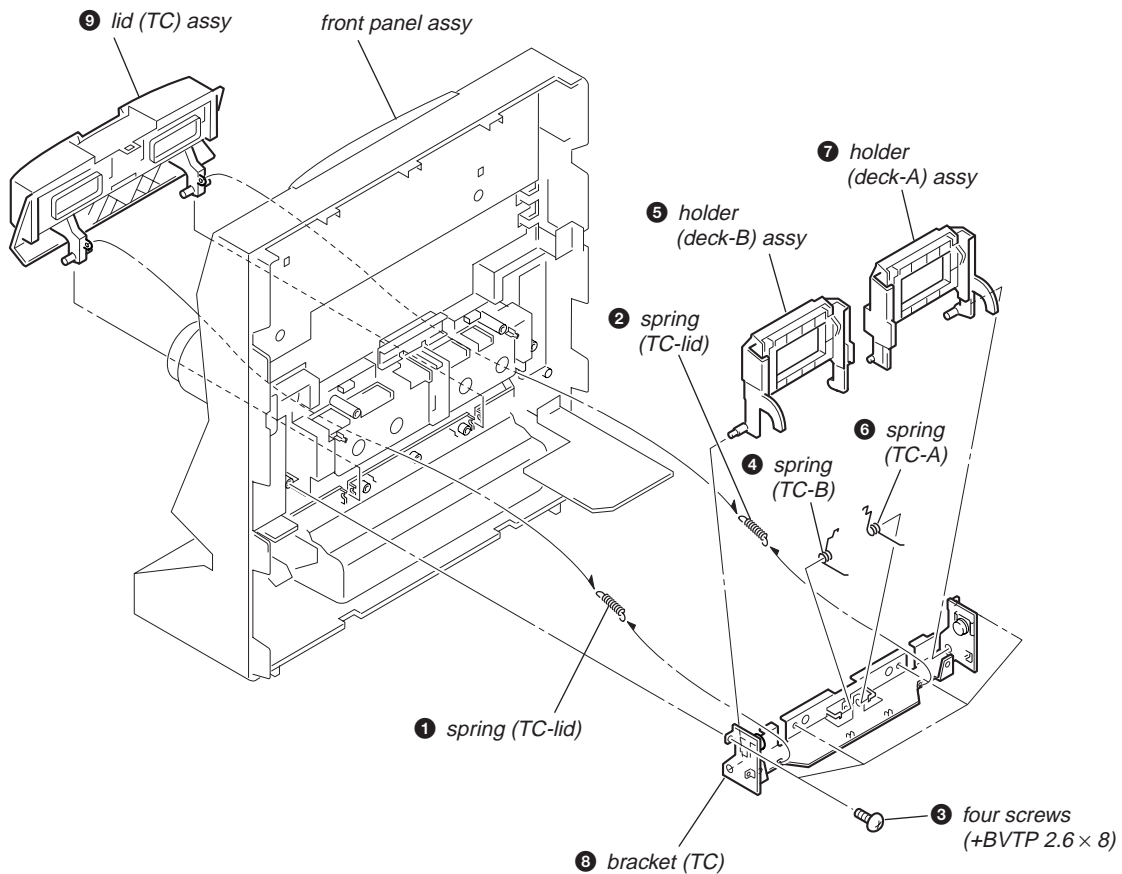
3-2. Front Panel Section



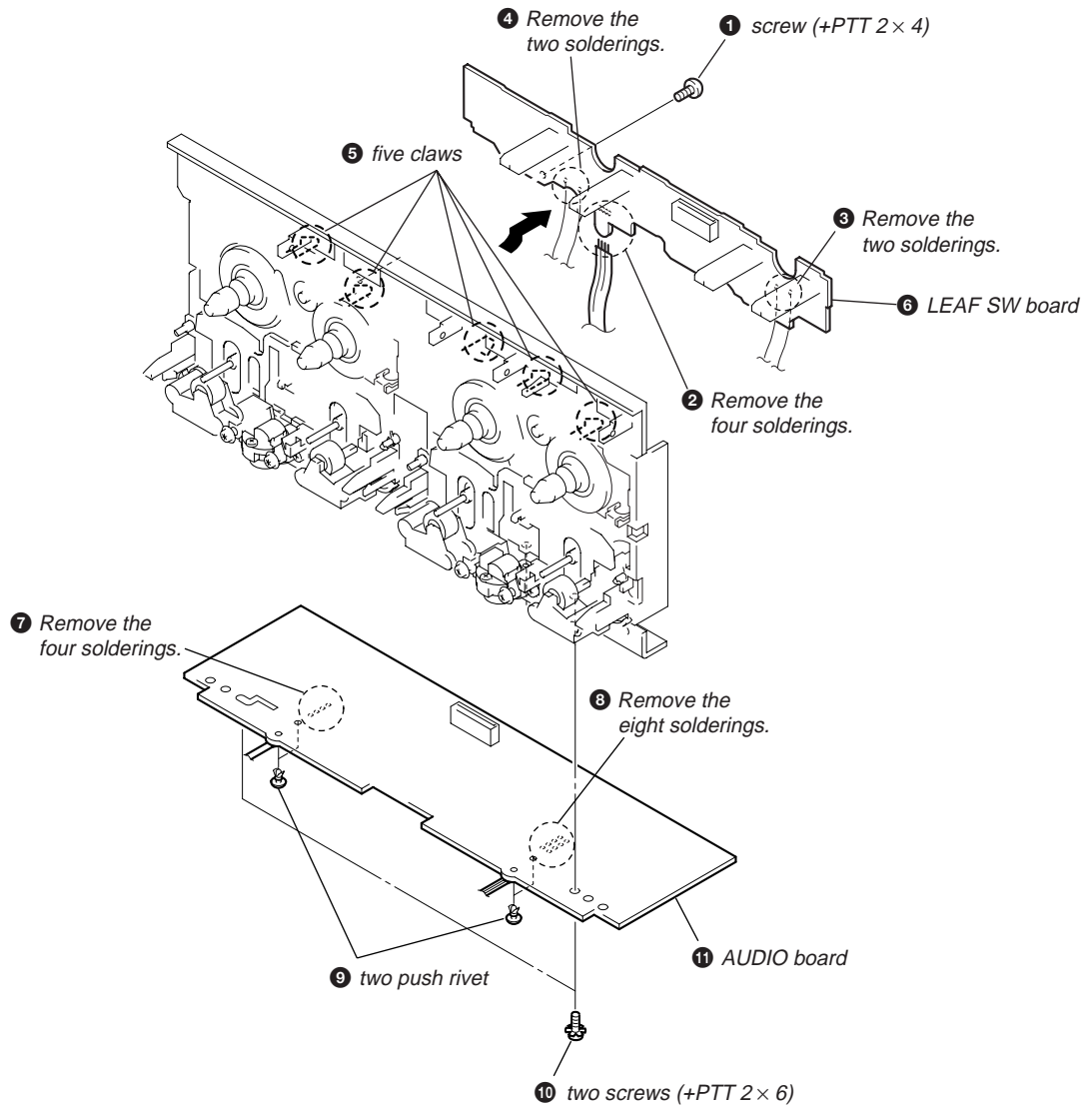
3-3. Tape Mechanism Deck (TCM-230PWR42), Cover (TC)



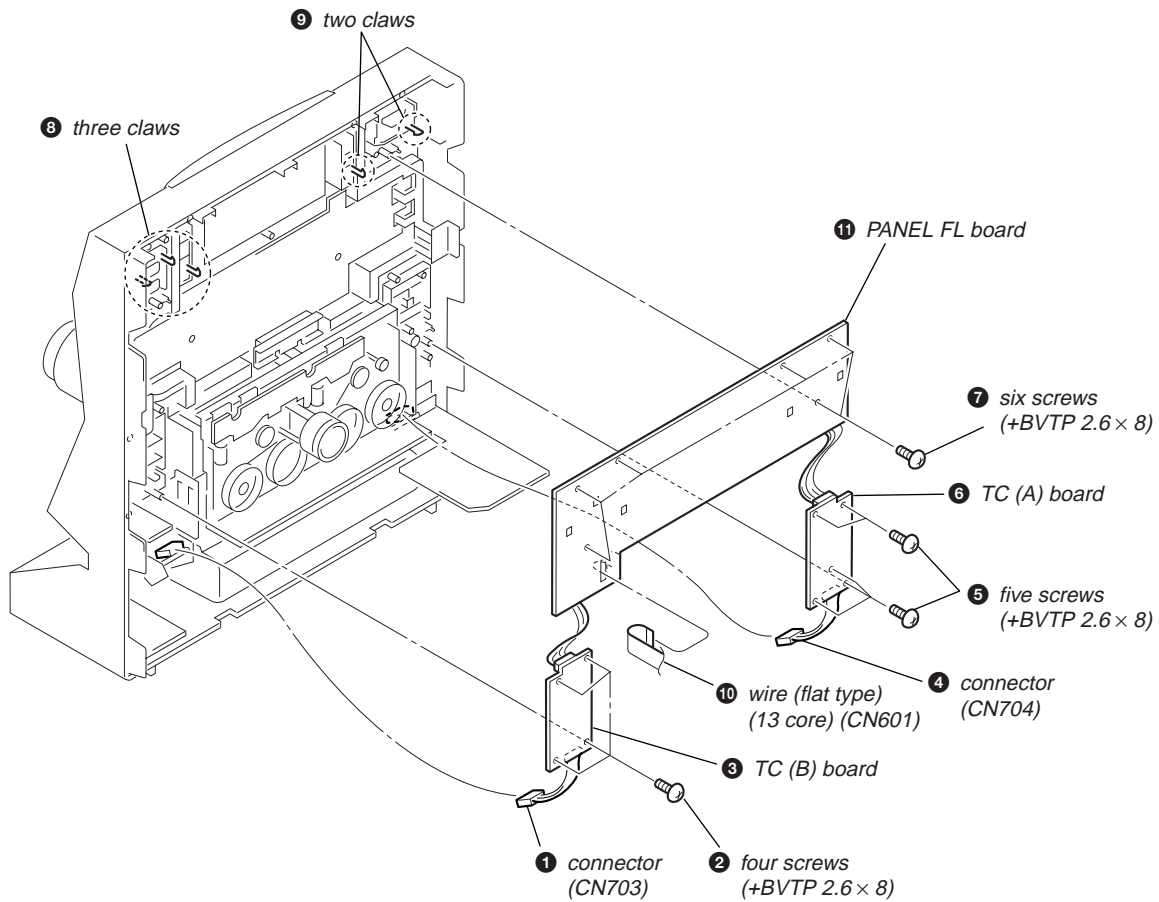
3-4. Holder Deck B Assy, Holder Deck A Assy, Lid (TC) Assy



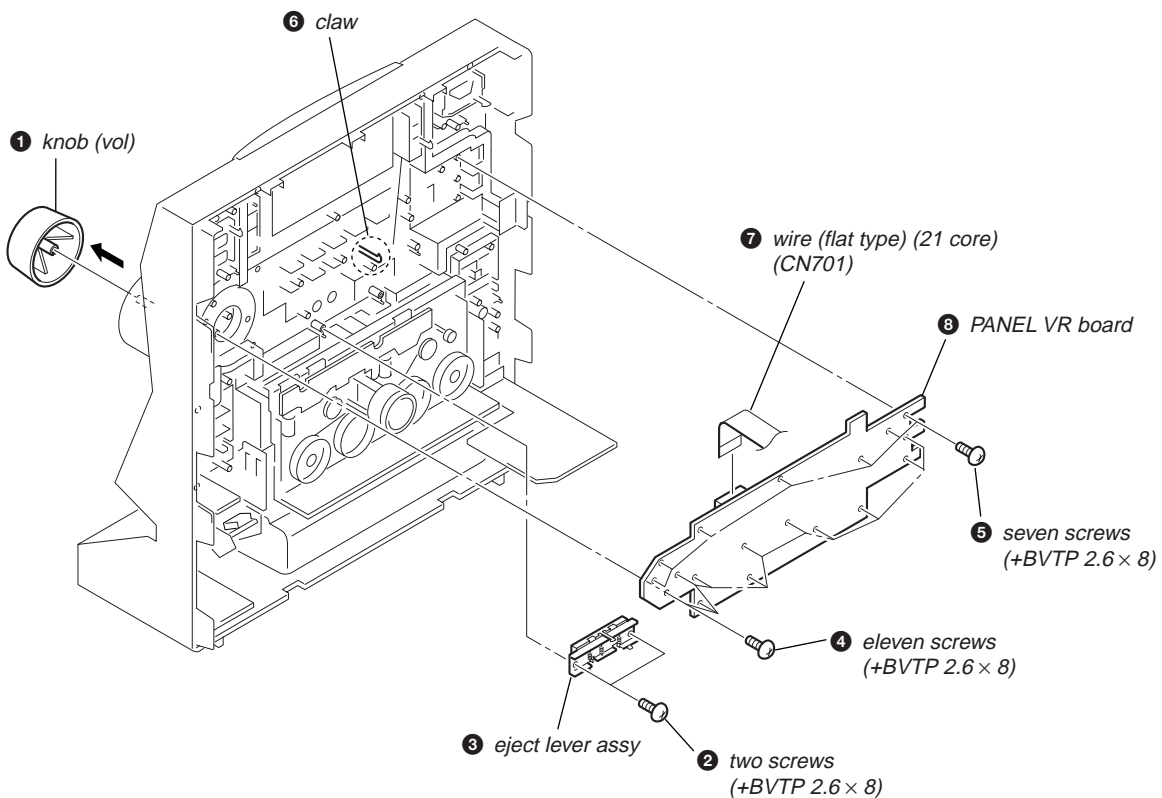
3-5. LEAF SW Board, AUDIO Board



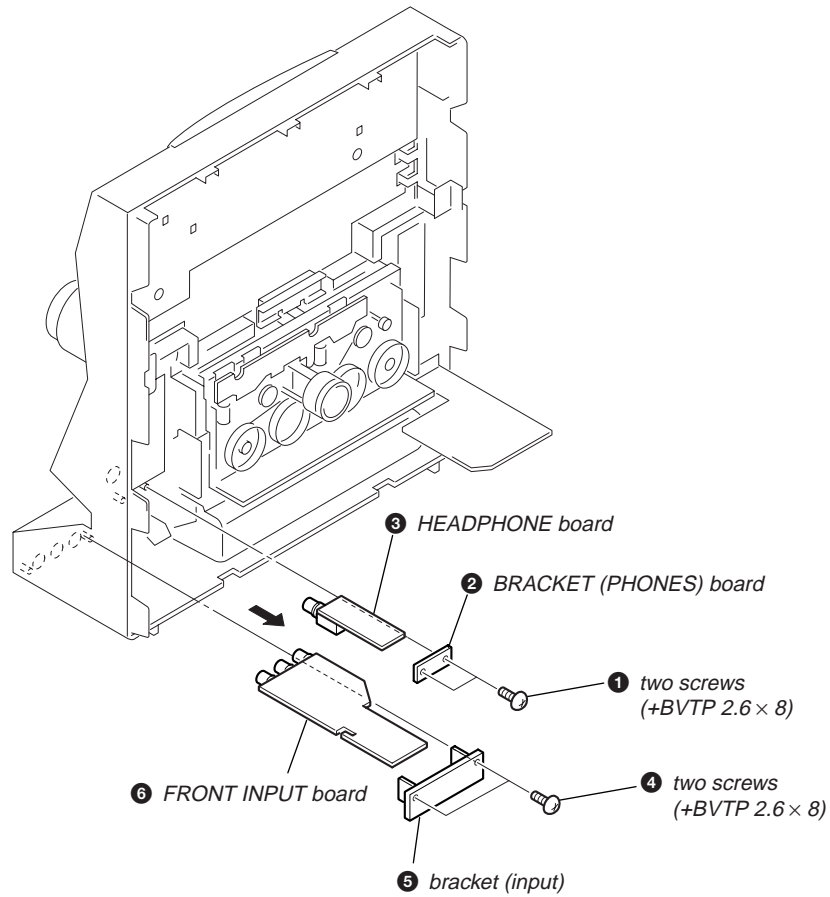
3-6. TC (B) Board, TC (A) Board, PANEL FL Board



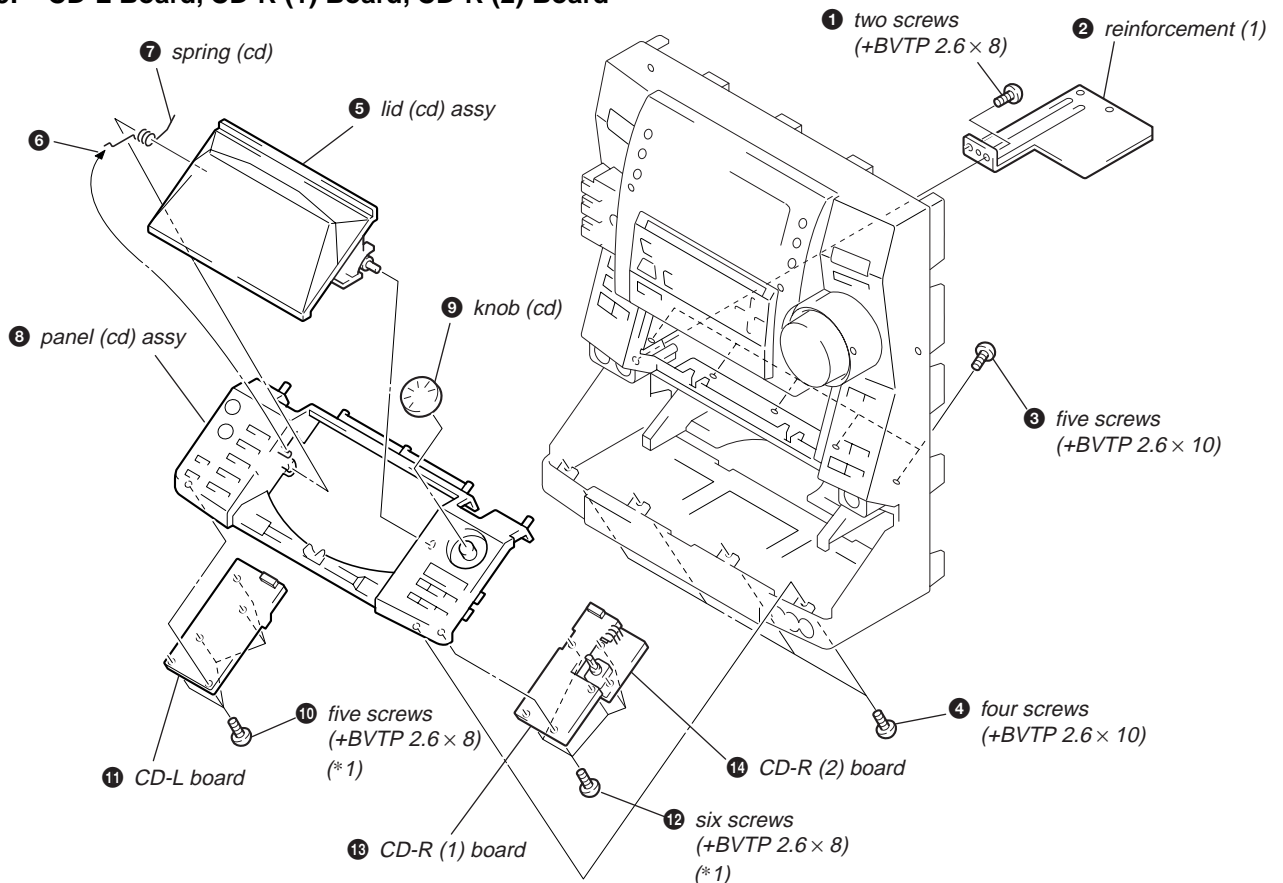
3-7. PANEL VR Board



3-8. HEADPHONE Board, FRONT INPUT Board

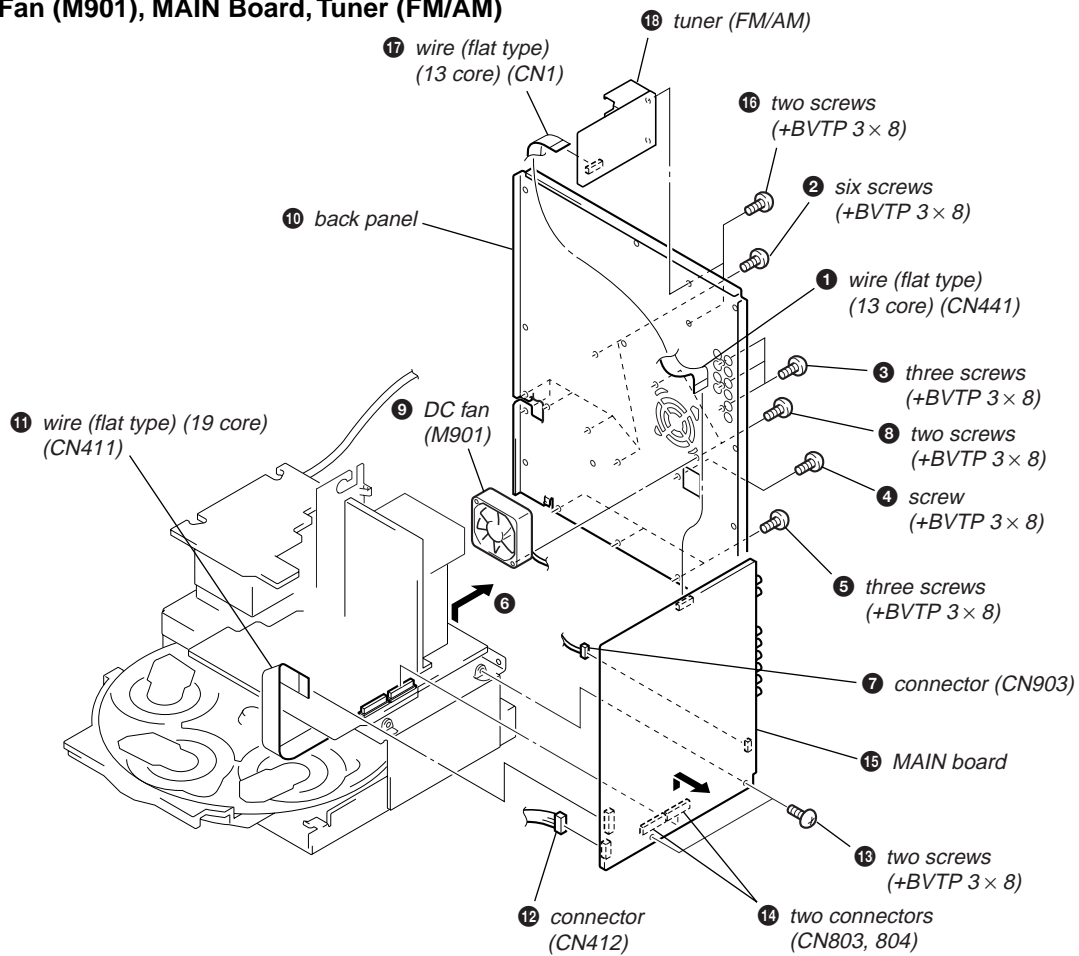


3-9. CD-L Board, CD-R (1) Board, CD-R (2) Board

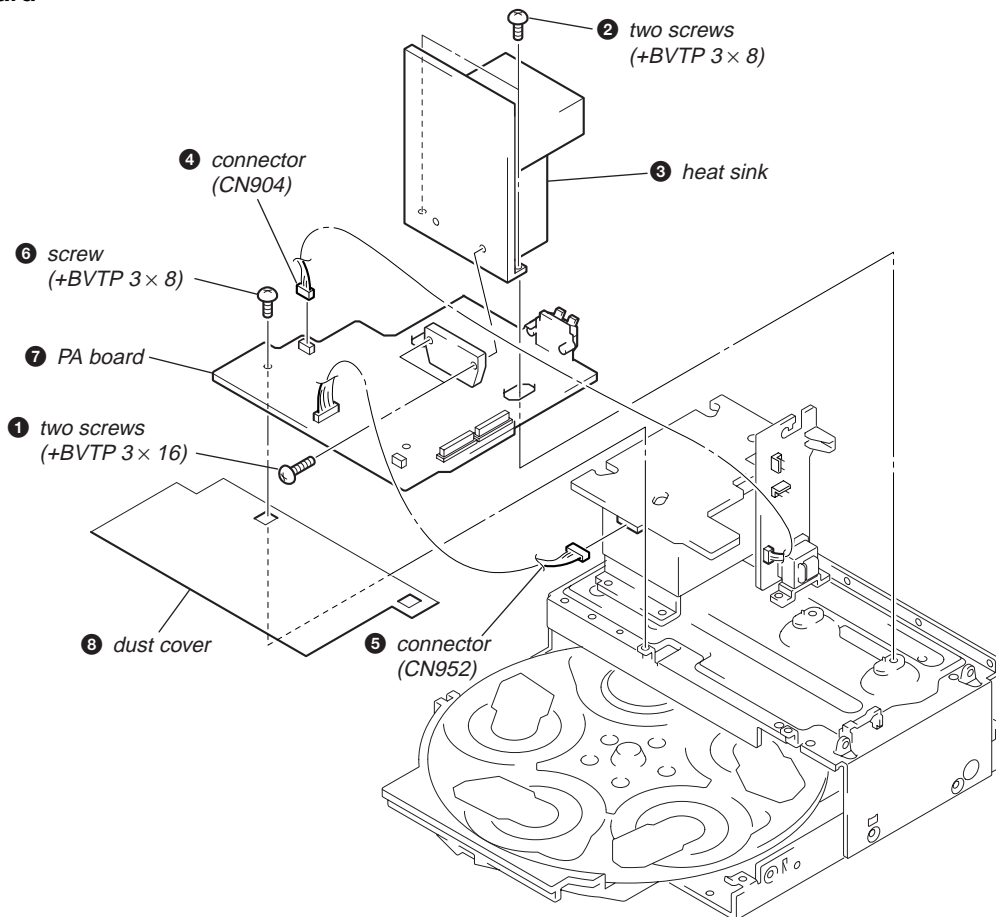


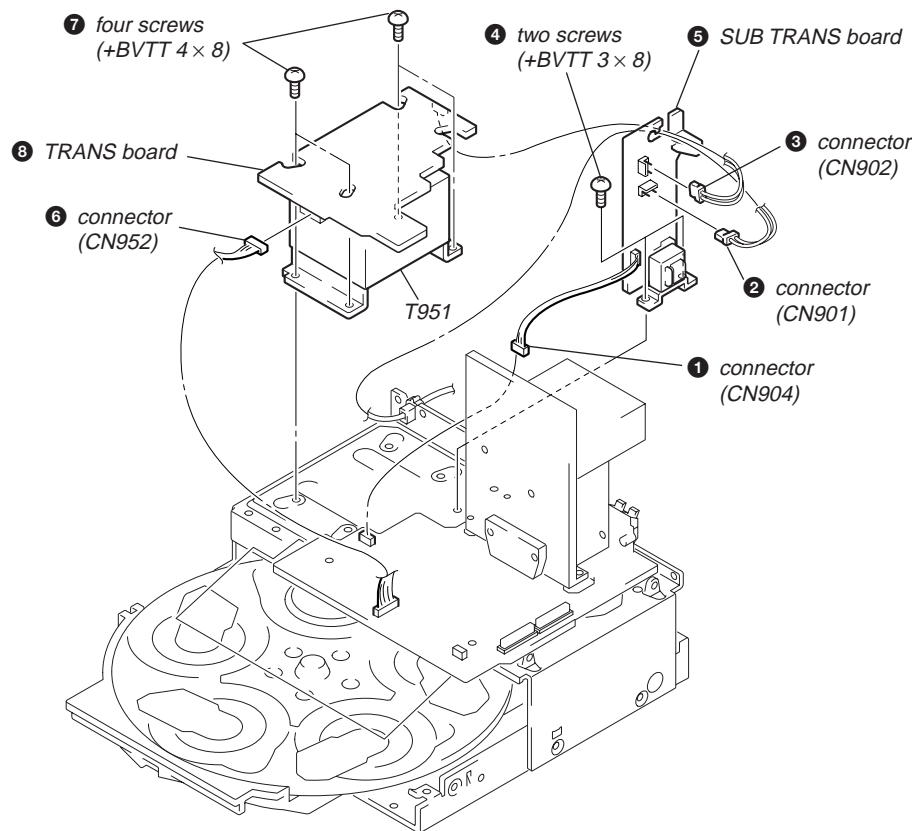
(*1) CD-L board, CD-R (1) and CD-R (2) board are connected to panel (cd) Assy by means of hot-melting the plastics.
For service must use screws to replace hot-melted pins.

3-10. DC Fan (M901), MAIN Board, Tuner (FM/AM)

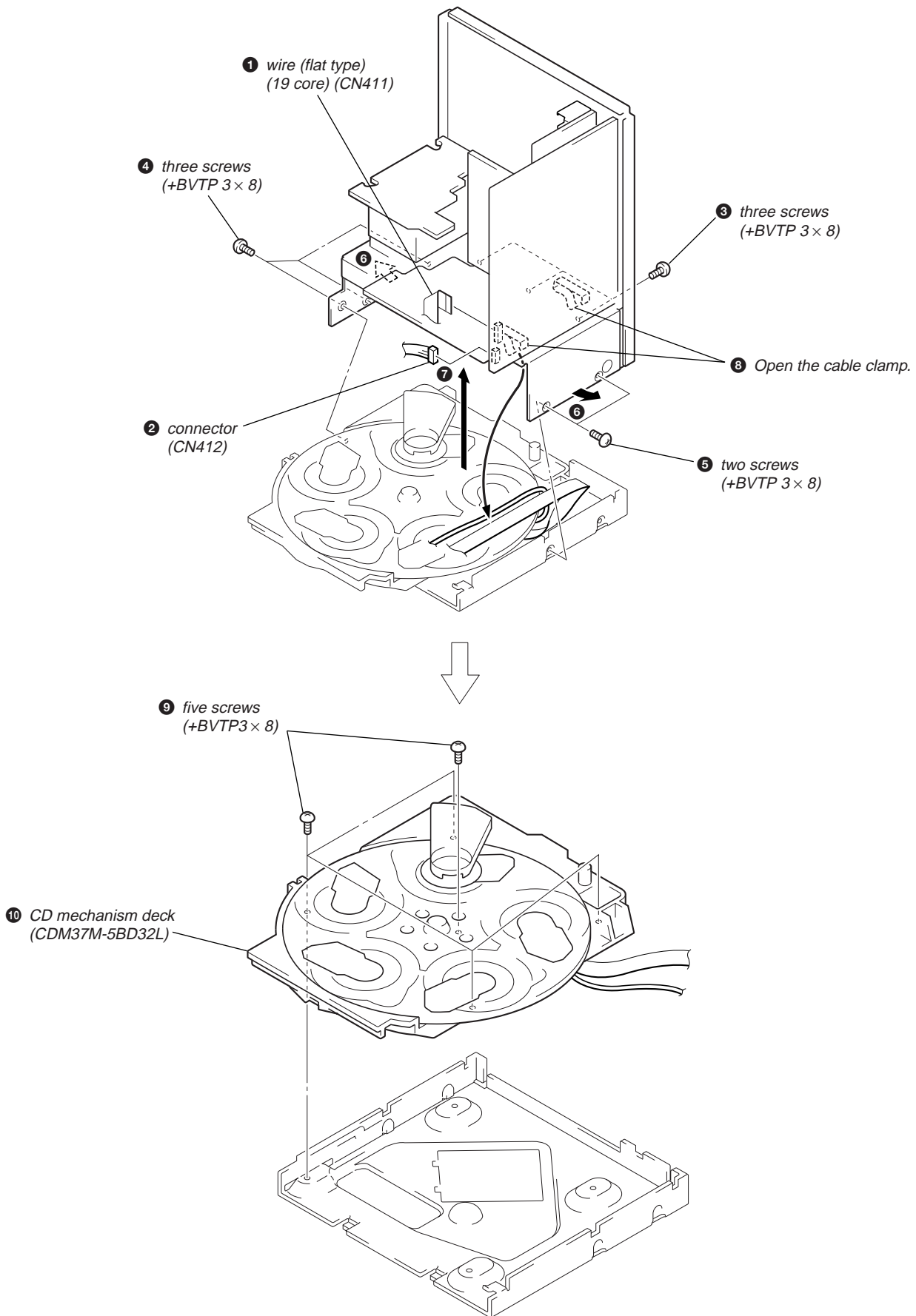


3-11. PA Board

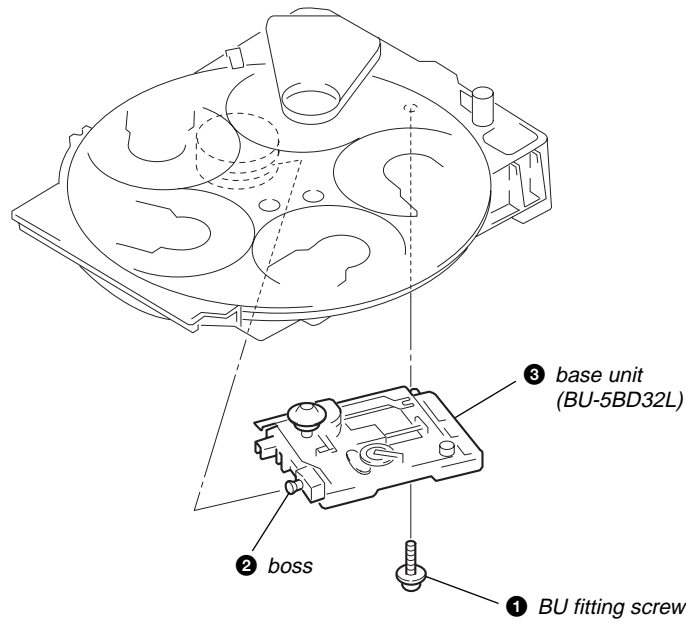


3-12. SUB TRANS Board, TRANS Board

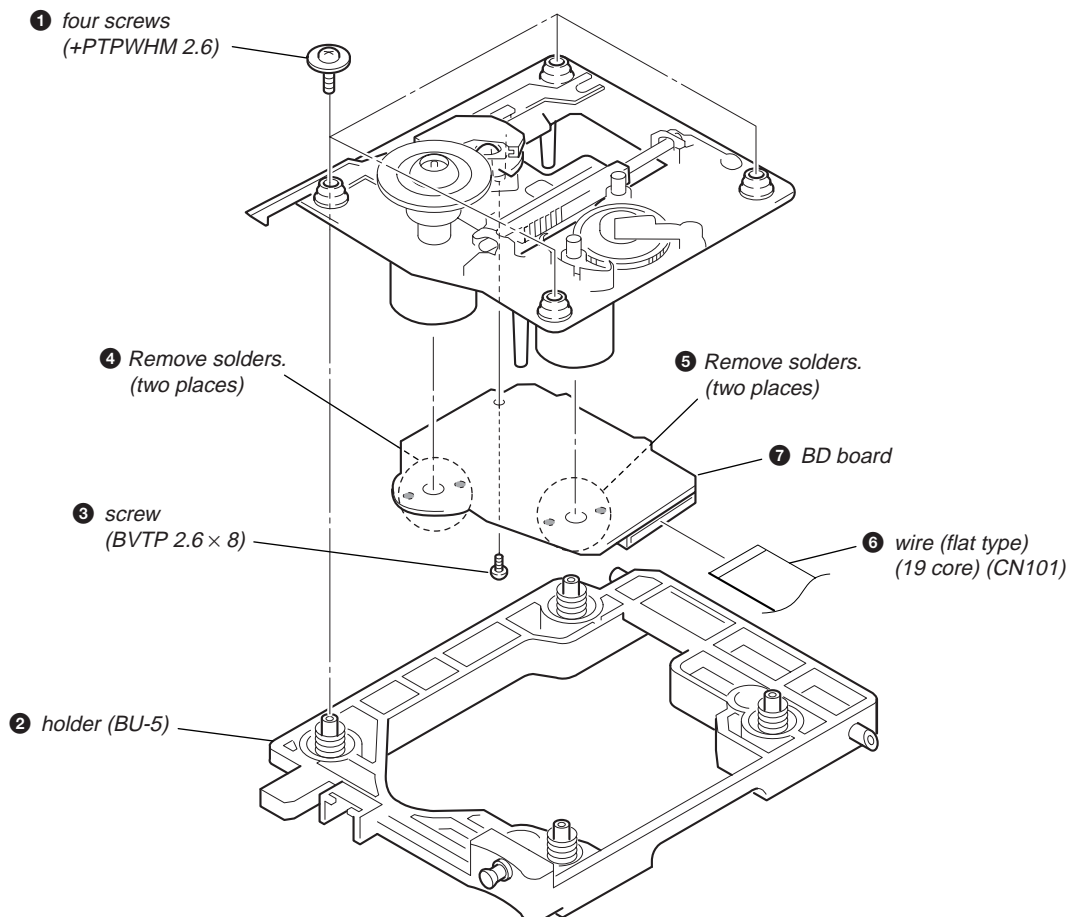
3-13. CD Mechanism Deck (CDM37M-5BD32L)



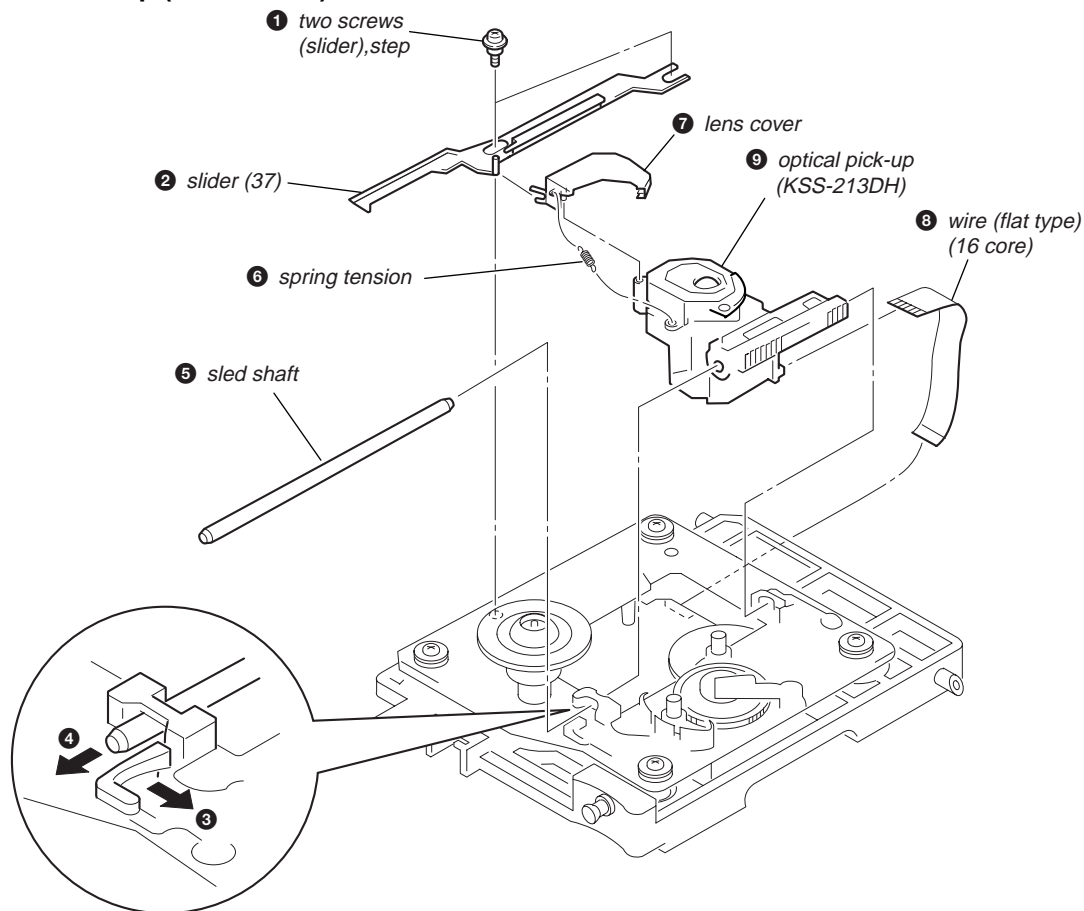
3-14. Base Unit (BU-5BD32L)



3-15. BD Board

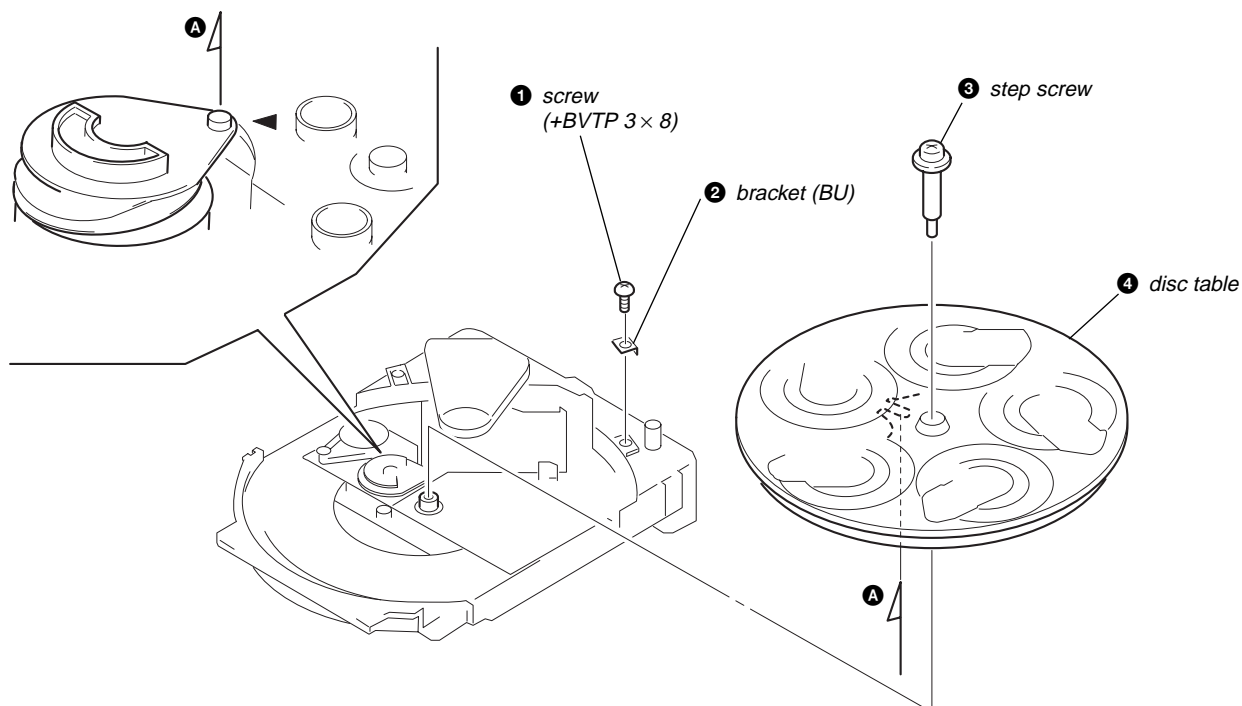


3-16. Optical Pick-up (KSS-213DH)

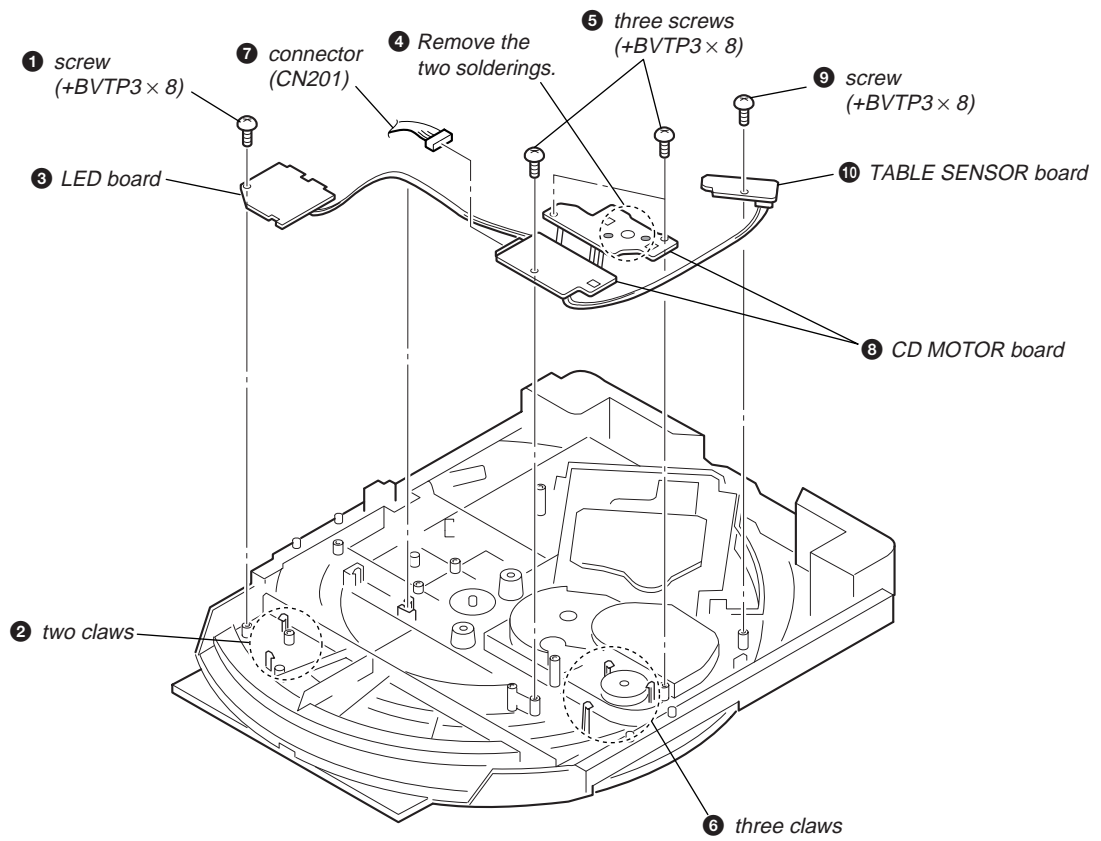


3-17. Disc Table

Note: When the disc table is installed, adjust the positions of roller cam and mark ◀ as shown in the figure, then set to the groove of disc table.



3-18. LED Board, CD MOTOR Board, TABLE SENSOR Board



SECTION 4 TEST MODE

[MC 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 the power ON or set to the DEMO mode.
- Press three buttons of **[CLOCK SET]**, **[ENTER/NEXT]**, and **[I/O]** simultaneously.
- The set is reset, and displays "COLD RESET", then becomes DEMO mode.

[MC Hot Reset]

- This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

- Turn the power ON or set to the DEMO mode.
- Press three buttons of **[CLOCK SET]**, **[ENTER/NEXT]**, and **[DISC 1]** simultaneously.
- The set is reset, and becomes standby state.

[Change-over the AM Tuning Interval]

- The AM tuning interval can be changed over 9 kHz or 10 kHz.

Procedure:

- Press the **[I/O]** button to turn the power ON.
- Select the function "TUNER", and press the **[TUNER/BAND]** button to select the BAND "AM".
- Press the **[I/O]** button to turn the power OFF.
- Press the **[ENTER/NEXT]** and **[I/O]** buttons simultaneously, and the display on the fluorescent indicator tube changes to "AM 9 K STEP" or "AM 10 K STEP", and thus the tuning interval is changed over.

[CD Delivery Mode]

- This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

- Press the **[I/O]** button to turn the power ON.
- Press the **[LOOP]** and **[I/O]** buttons simultaneously.
- A message "LOCK" is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

[LED and Fluorescent Indicator Tube All Lit, Key Check Mode]

Procedure:

- Press three buttons of **[CLOCK SET]**, **[ENTER/NEXT]**, and **[DISC 2]** simultaneously.
- LEDs and fluorescent indicator tube are all turned on. Press the **[DISC 2]** button, and the key check mode is activated.
- In the key check mode, the fluorescent indicator tube displays "K 0 JO VO". Each time a button is pressed, "K" value increases. However, once a button is pressed, it is no longer taken into account.
 - "J" value increases like 1, 2, 3 ... if turn the JOG dial clockwise, or it decreases like 0, 9, 8 ... if turn the JOG dial counterclockwise.
 - "V" value increases like 1, 2, 3 ... if turn the **[VOLUME]** dial clockwise, or it decreases like 0, 9, 8 ... if turn the JOG dial counterclockwise.
- To release from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[Aging Mode]

This mode can be used for operation check of tape deck section. Tape deck section work in parallel.

- If an error occurred:
The aging operation stops and display then status.
- If no error occurs:
The aging operation continues repeatedly.

Procedure:

1. Load the tapes into the decks A and B respectively.
2. Press the **[FUNCTION]** button to select the function “CD”.
3. Press the **[PLAY MODE]** button to set the “ALL DISCS” mode, and press the **[REPEAT]** button to “REPEAT” off.
4. Press three buttons of **[⌚/CLOCK SET]**, **[ENTER/NEXT]**, and **[DISC 4]** simultaneously.
5. The aging mode is activated, if the indicator of disc tray number on the fluorescent indicator tube is blinking.
6. To release from the aging mode, press the **[I/O]** button to turn the power OFF and operate the cold reset. (Refer to the “MC Cold Reset”)

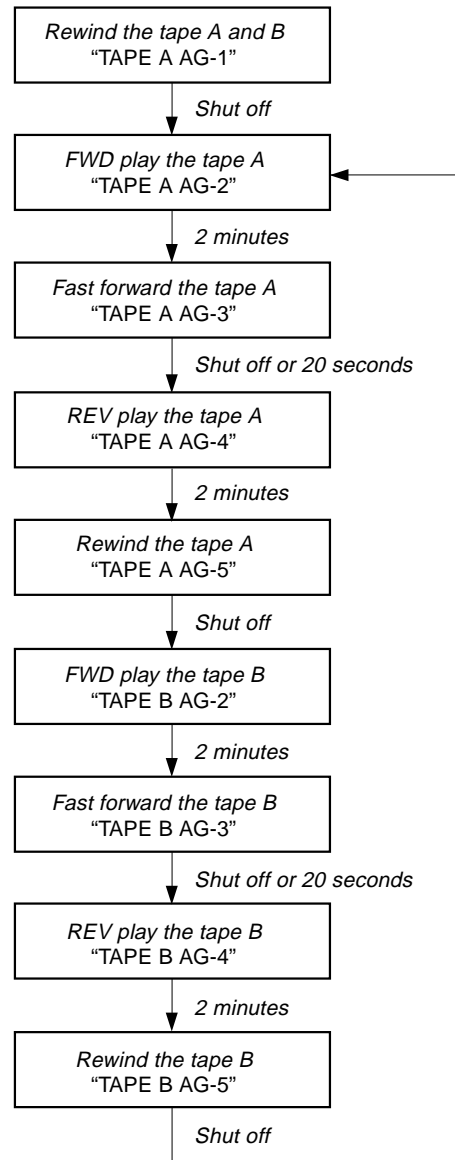
1. Display at the Aging Mode

- Display operating state of tape deck section alternately.
- If an error occurred, stop display.

2. Tape Deck Section

- The sequence during the aging mode is following as below.
- If an error occurred, stop display that step.

Aging mode sequence (Tape deck section) :



Note: “TAPE * AG-*” is display of each step.

SECTION 5 MECHANICAL ADJUSTMENTS

Precaution

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

record/playback heads	pinch rollers
erase head	rubber belts
capstan	idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	3.1~6.96 mNm (31 to 71 gem) (0.43 – 0.98 ozin ^{ch})
FWD back tension	CQ-102C	0.20~0.58 mNm (2 to 6 gem) (0.03 – 0.08 ozin ^{ch})
REV	CQ-102RC	3.1~6.96 mNm (31 to 71 gem) (0.43 – 0.98 oz in ^{ch})
REV back tension	CQ-102RC	0.20~0.58 mNm (2 to 6 gem) (0.03 – 0.08 oz in ^{ch})
FF/REW	CQ-201B	6.97~14.02 mNm (71 to 143 gem) (0.99 – 1.99 oz in ^{ch})
FWD tension	CQ-403A	9.80 mNm (100 g or more) (3.53 oz or more)
REV tension	CQ-403A	9.80 mNm (100 g or more) (3.53 oz or more)

SECTION 6 ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB = 0.775 V

Precaution

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.
8. Set to the DOLBY NR OFF.
9. Set to the test mode.
 - (1) Press the I/⏪ button to turn the power ON.
 - (2) Select the function "TAPE A or B".
 - (3) Press the button of ⌚/CLOCK SET, ENTER/NEXT, and DISC 3 simultaneously, to set the tape deck test mode and displays "TEST MODE" on the fluorescent indicator tube.
 - (4) To release from the test mode, press the I/⏪ button.

• 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	Playback Level Adjustment

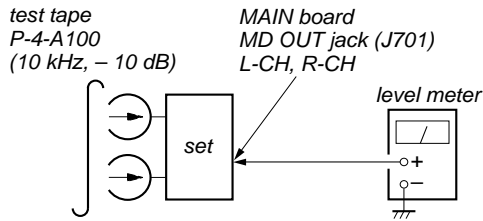
Record/Playback Head Azimuth Adjustment

DECK A **DECK B**

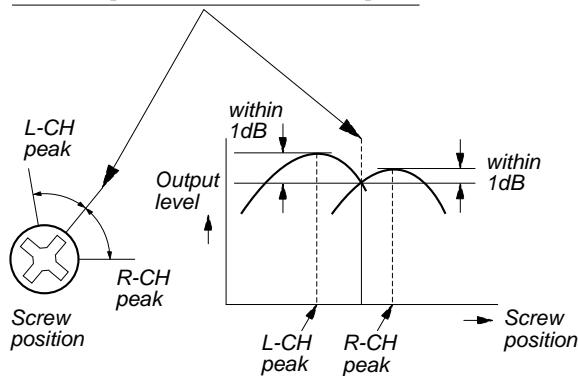
Note: Perform this adjustments for both decks

Procedure:

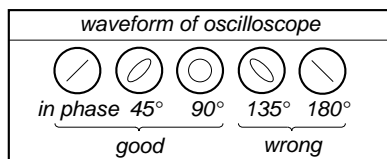
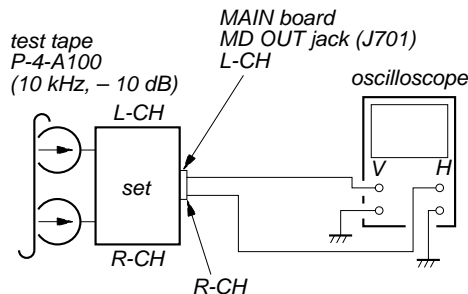
1. Mode: Playback (FWD)



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.



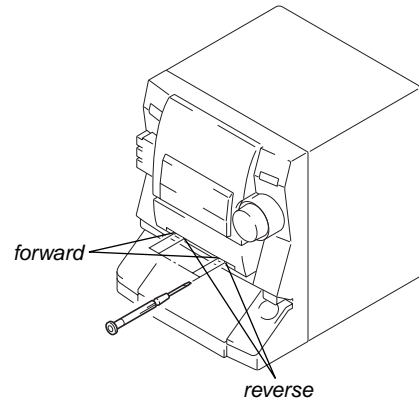
3. Mode: Playback



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

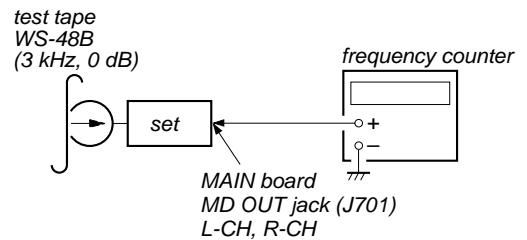
Adjustment Location: Playback Head (Deck A).

Record/Playback/Erase Head (Deck B).



Tape Speed Adjustment **DECK B**

Mode: Playback



1. Insert the WS-48B into the deck B.
2. Press the button on the deck B.
3. Press the **[H SPEED DUB]** button in playback mode. Then at HIGH speed mode.
4. Adjust RV1001 on the LEAF SW board do that frequency counter reads $6,000 \pm 180$ Hz.
5. Press the **[H SPEED DUB]** button. Then back to NORMAL speed mode.
6. Adjust RV1002 on the LEAF SW board so that frequency counter reads $3,000 \pm 90$ Hz.

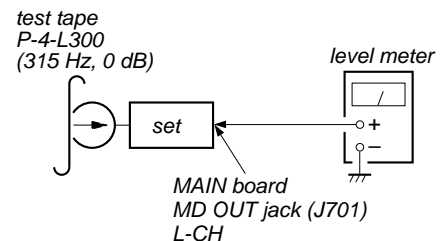
Adjustment Location: LEAF SW board

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

Playback Level Adjustment **DECK A** **DECK B**

Procedure:

Mode: Playback



Deck A is RV311 (L-CH), Deck B is RV301 (L-CH) so that adjustment within specification values as follows.

Specification Values:

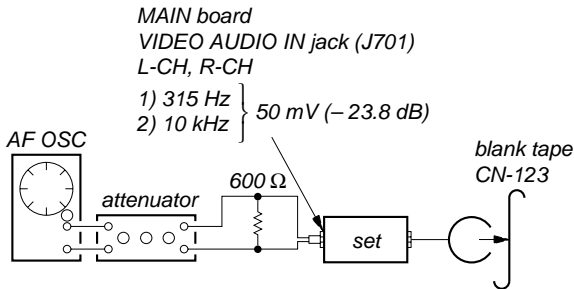
J101 PB level: 301.5 to 338.3 mV (− 8.2 to − 7.2 dB) level difference between the channels: within ± 0.5 dB

Adjustment Location: AUDIO board

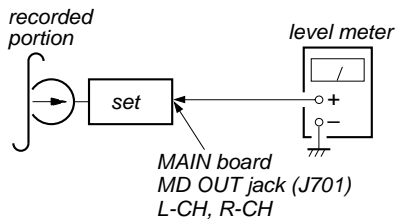
REC Bias Adjustment **DECK B**

Procedure:

- Mode: Record
FUNCTION: VIDEO



- Mode: Playback



- Confirm playback the signal recorded in step 1 become specification values as follows.
If these values are out of specification values, adjust the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 1 and 2.

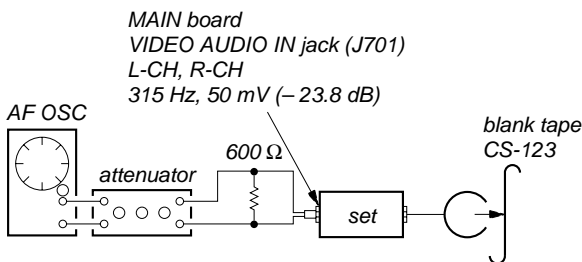
Specification values: Playback output of 315 Hz to playback output of 10 kHz: ± 0.5 dB

Adjustment Location: AUDIO board

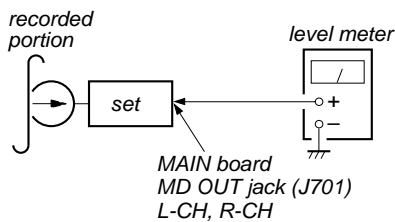
REC Level Adjustment **DECK B**

Procedure:

- Mode: Record
FUNCTION: VIDEO



- Mode: Playback



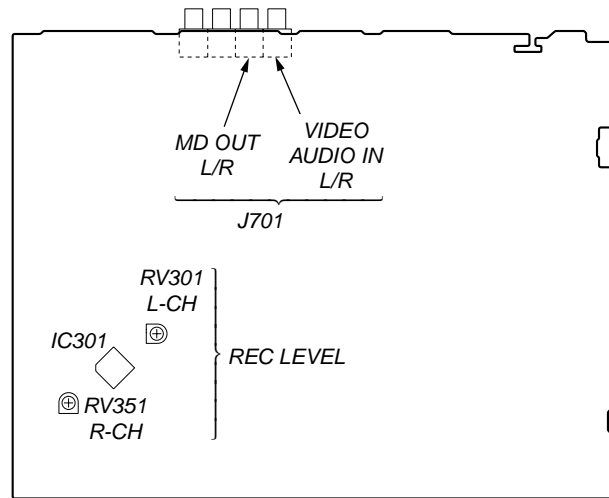
- Confirm playback the signal recorded in step 1 become specification values as follows.
If these values are out of specification values, adjust the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 1 and 2.

Specification values:

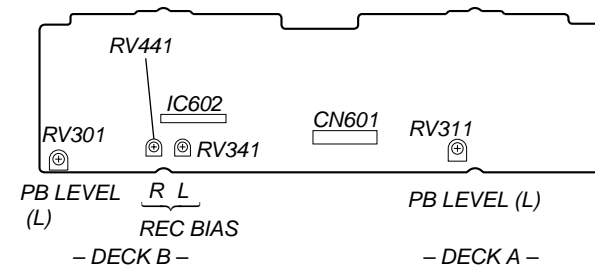
J101 PB level: 47.2 to 53.0 mV (-24.3 to -23.3 dB)

Adjustment Location: MAIN board

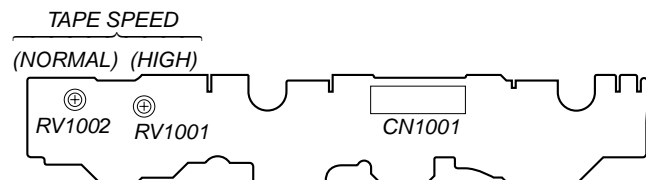
- MAIN BOARD (Conductor Side) -



- AUDIO BOARD (Component Side) -



- LEAF SW BOARD (Component Side) -

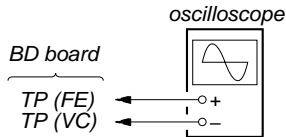


CD SECTION

Note:

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
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.

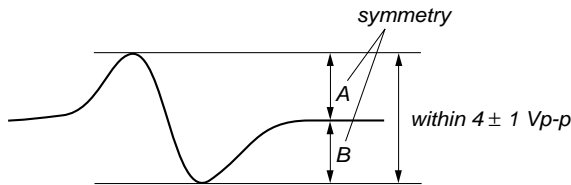
S-Curve Check



Procedure:

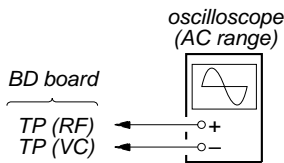
1. Connect oscilloscope to TP (FE) and TP (VC).
2. Connect between TP (FE1) and TP (VC) by lead wire.
3. Connect between TP (AGCCON) and TP (GND) by lead wire.
4. Turn the power ON.
5. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
6. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 4 ± 1 Vp-p.

S-curve waveform



7. After check, remove the lead wire connected in step 2 and 3.
- Note:**
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
 - Take sweep time as long as possible and light up the brightness to obtain best waveform.

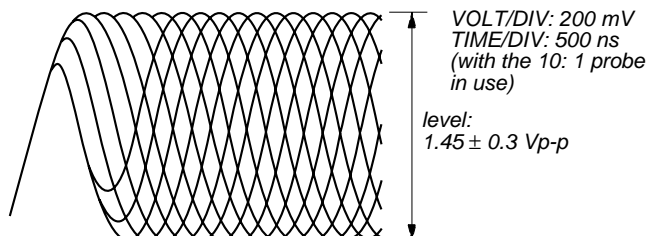
RF Level Check



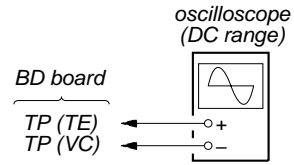
Procedure:

1. Connect oscilloscope to TP (RF) and TP (VC).
2. Connect between TP (AGCCON) and TP (GND) by lead wire.
3. Turn the power ON.
4. Load a disc (YEDS-18) and press the button to play.
5. Confirm that the oscilloscope waveform is clear and check RF signal level is correct or not.
6. After check, remove the lead wire connected in step 2.

Note: Clear RF signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.



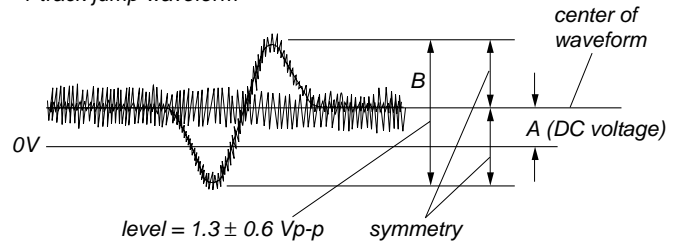
E-F Balance (1 Track Jump) Check



Procedure :

1. Connect oscilloscope to TP (TE) and TP (VC).
2. Turn the power ON.
3. Load a disc (YEDS-18) and playback the number five track.
4. Press the button. (Becomes the 1 track jump mode)
5. Confirm that the level B and A (DC voltage) on the oscilloscope waveform.

1 track jump waveform

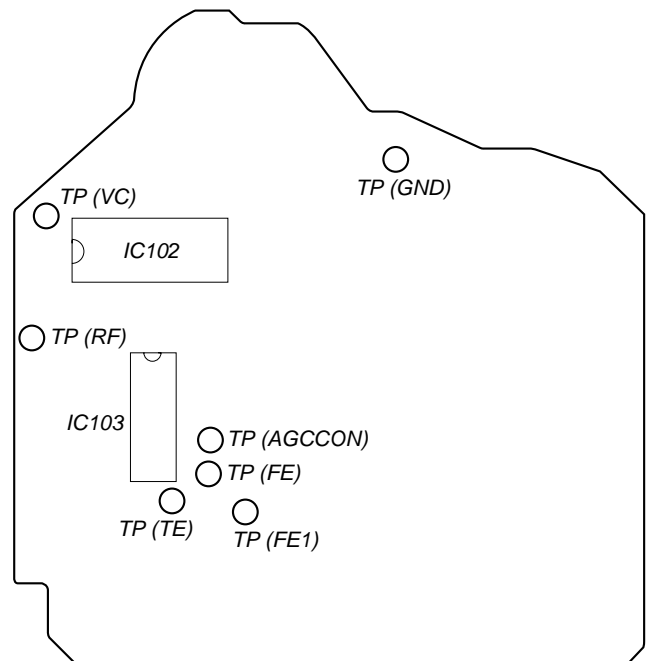


Specified level: $\frac{A}{B} \times 100 = \text{less than } \pm 22\%$

6. After check, remove the lead wire connected in step 1.

Checking Location:

– BD BOARD (Side B) –



SECTION 7 DIAGRAMS

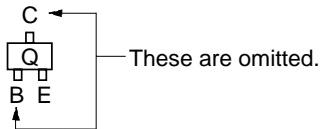
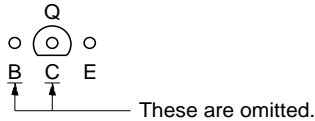
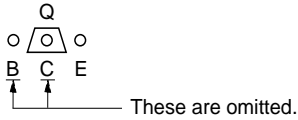
NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

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

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

- Indication of transistor.



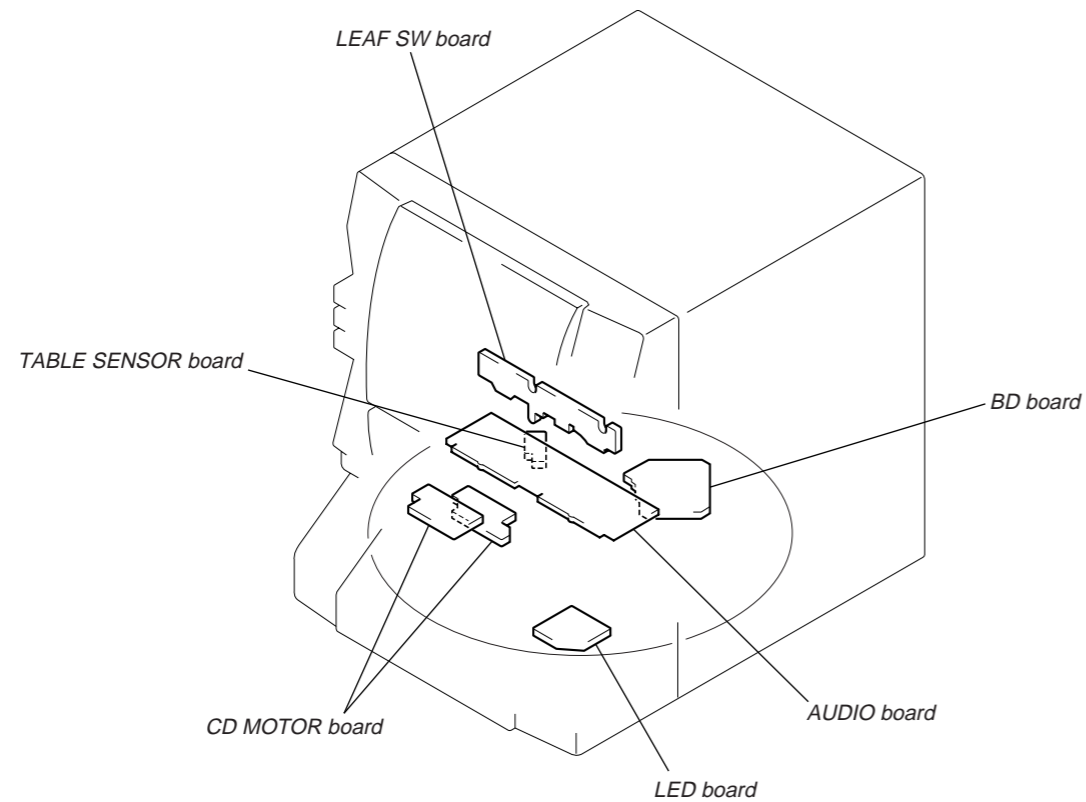
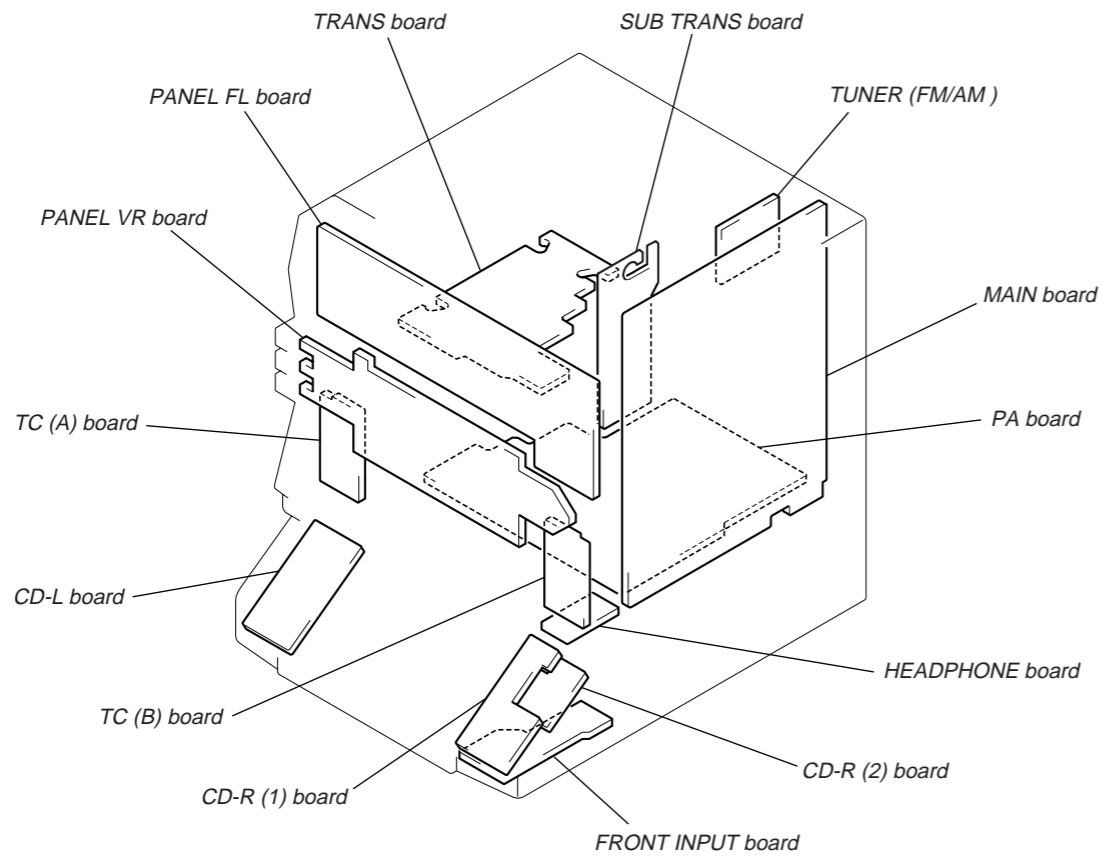
Note on Schematic Diagram:

- 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.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.
- Δ : internal component.

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

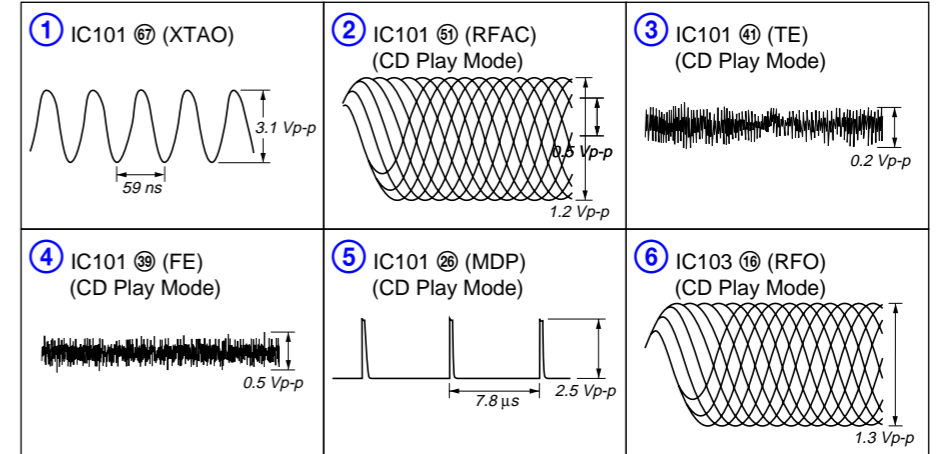
- : B+ Line.
- : B- Line.
- : adjustment for repair.
- Voltages are taken with a VOM (Input impedance $10\text{ M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - : TUNER (FM/AM)
 - : TAPE PLAY (DECK A)
 - : TAPE PLAY (DECK B)
 - : RECORD
 - : CD PLAY (ANALOG OUT)
 - : CD PLAY (DEGITAL OUT)
 - : MIC INPUT

• Circuit Boards Location

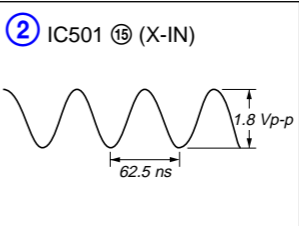
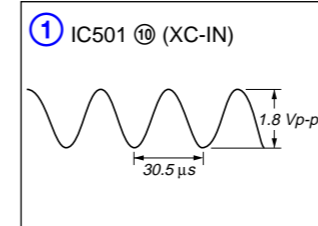


• Waveforms

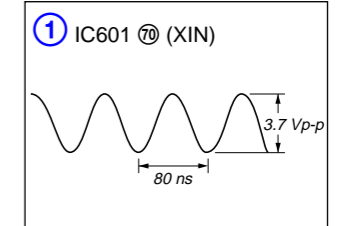
– BD Board –



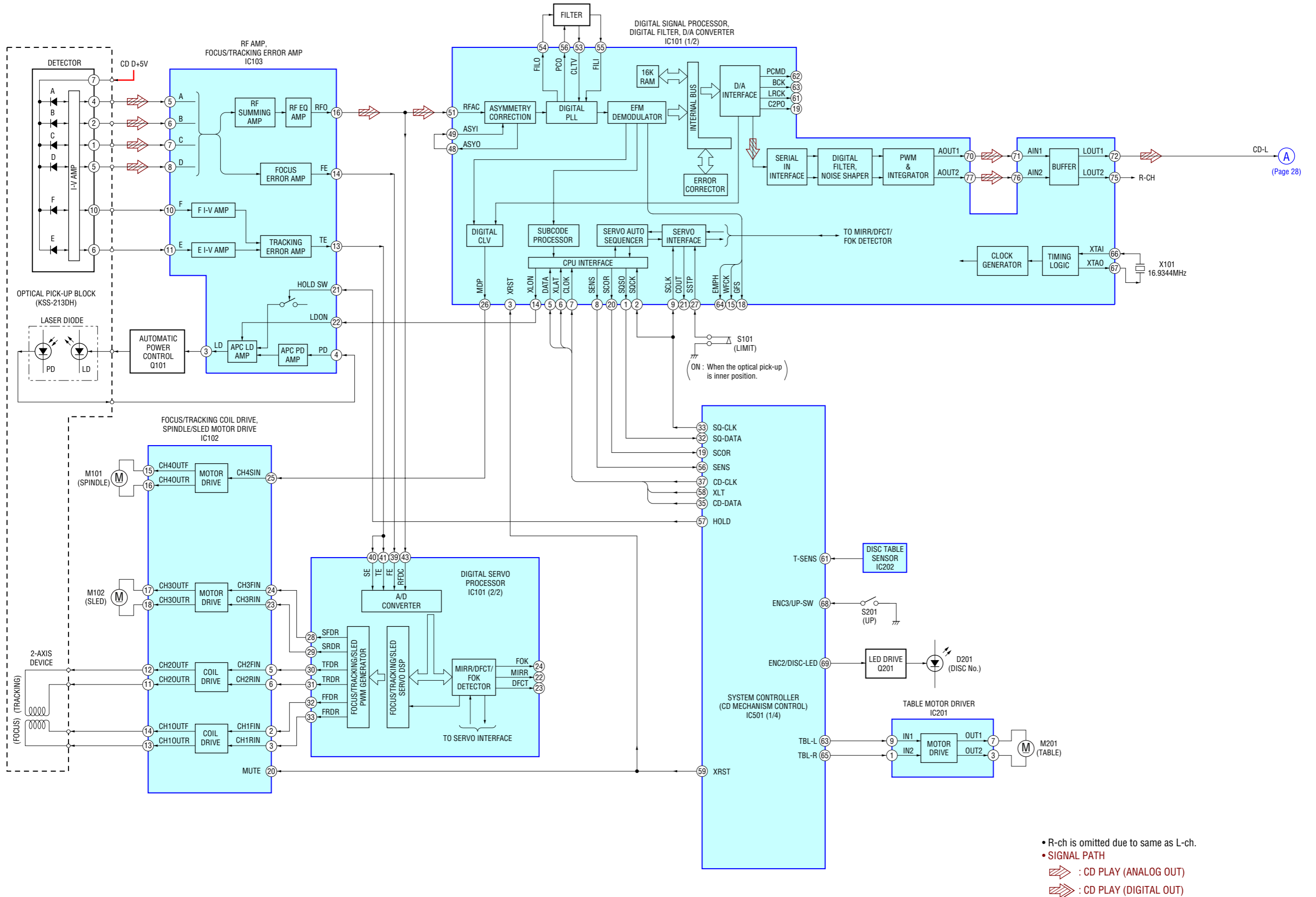
– MAIN Board –



– PANEL FL Board –

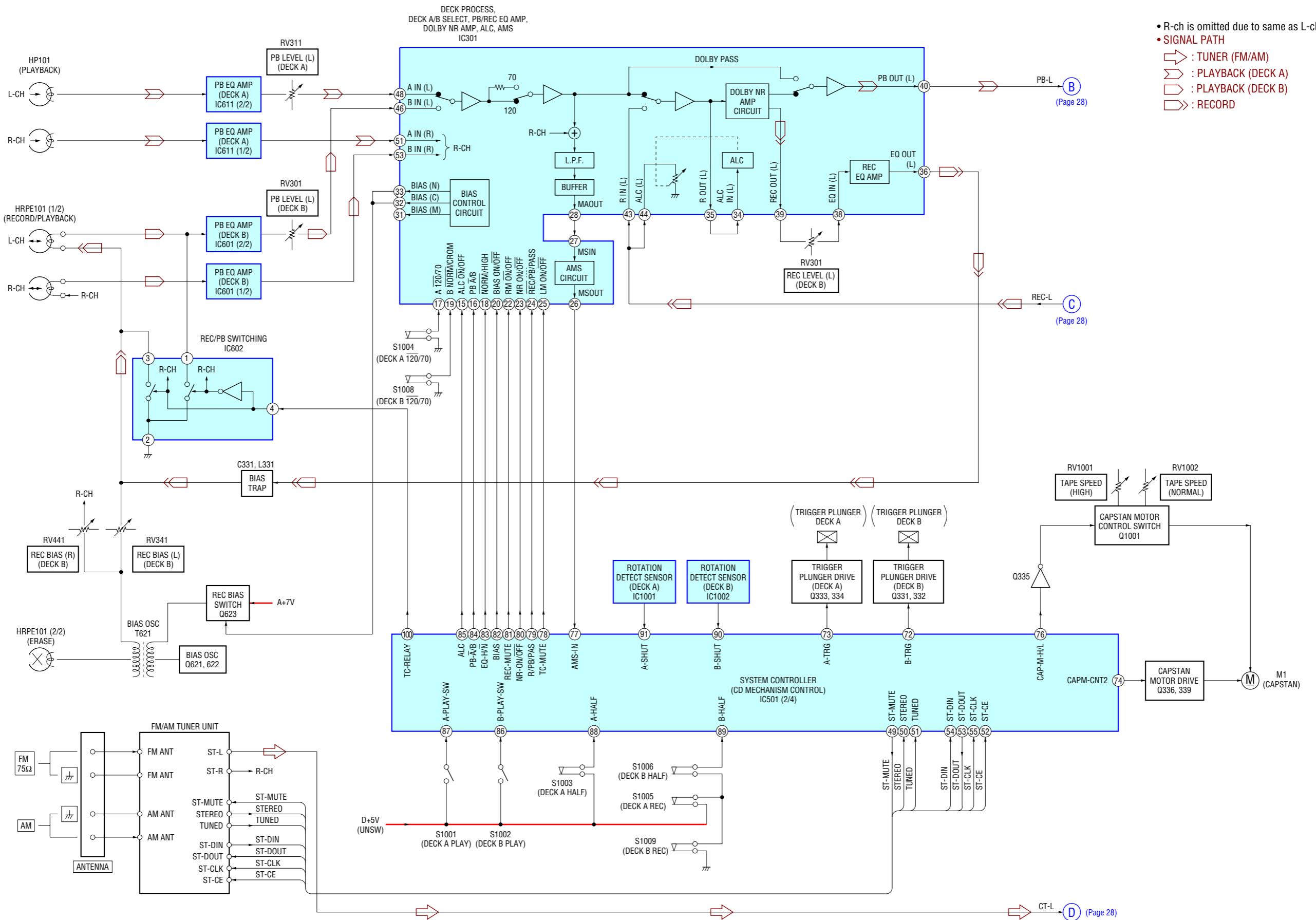


7-1. BLOCK DIAGRAM – CD SERVO Section –

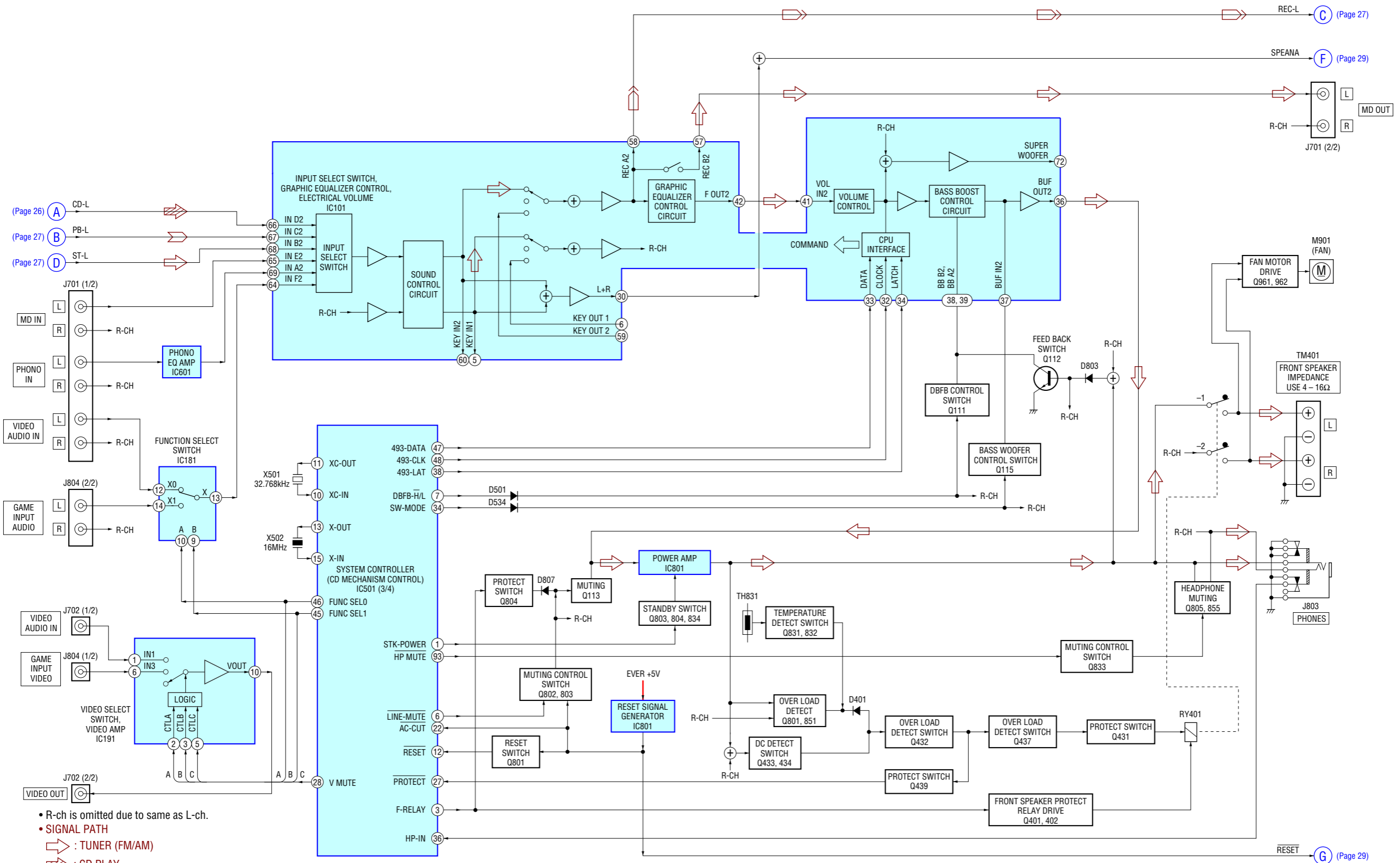


- TUNER/TAPE DECK Section -

- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
 - ➡ : TUNER (FM/AM)
 - ➡ : PLAYBACK (DECK A)
 - ➡ : PLAYBACK (DECK B)
 - ➡ : RECORD

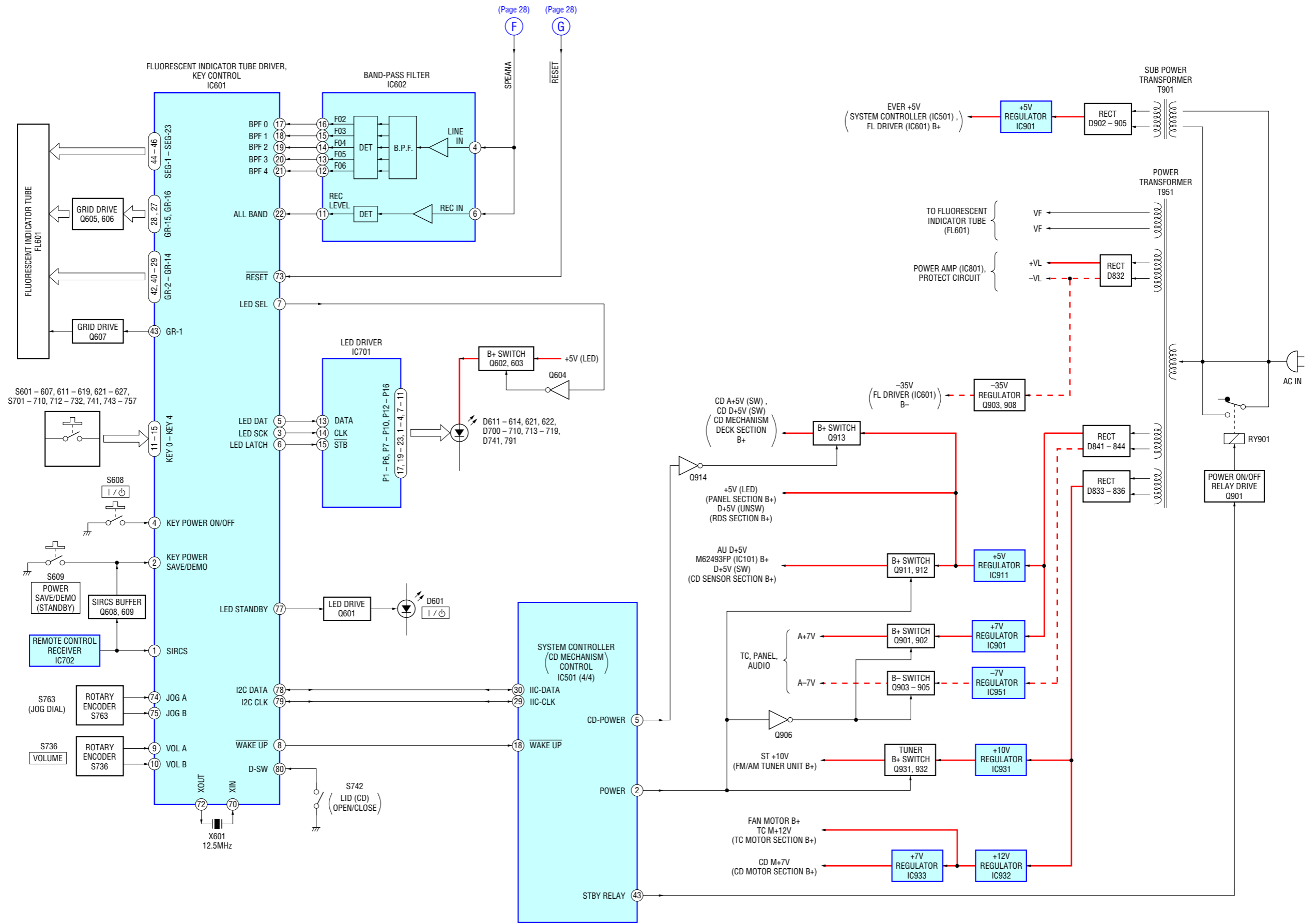


- MAIN Section -

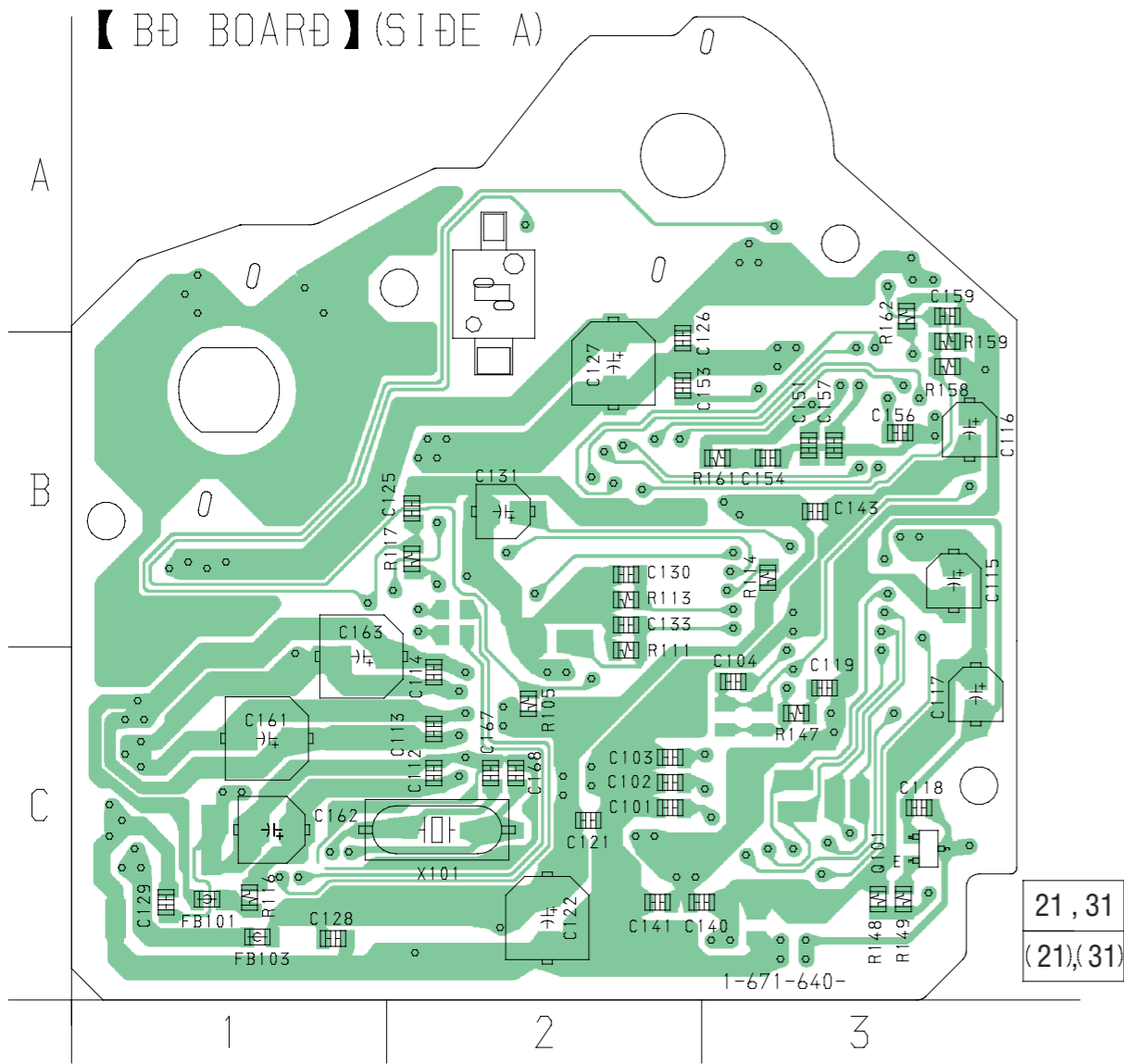


- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
- ➡ : TUNER (FM/AM)
- ➡ : CD PLAY
- ➡ : TAPE PLAY
- ➡ : RECORD

- DISPLAY/KEY CONTROL/POWER SUPPLY Section -

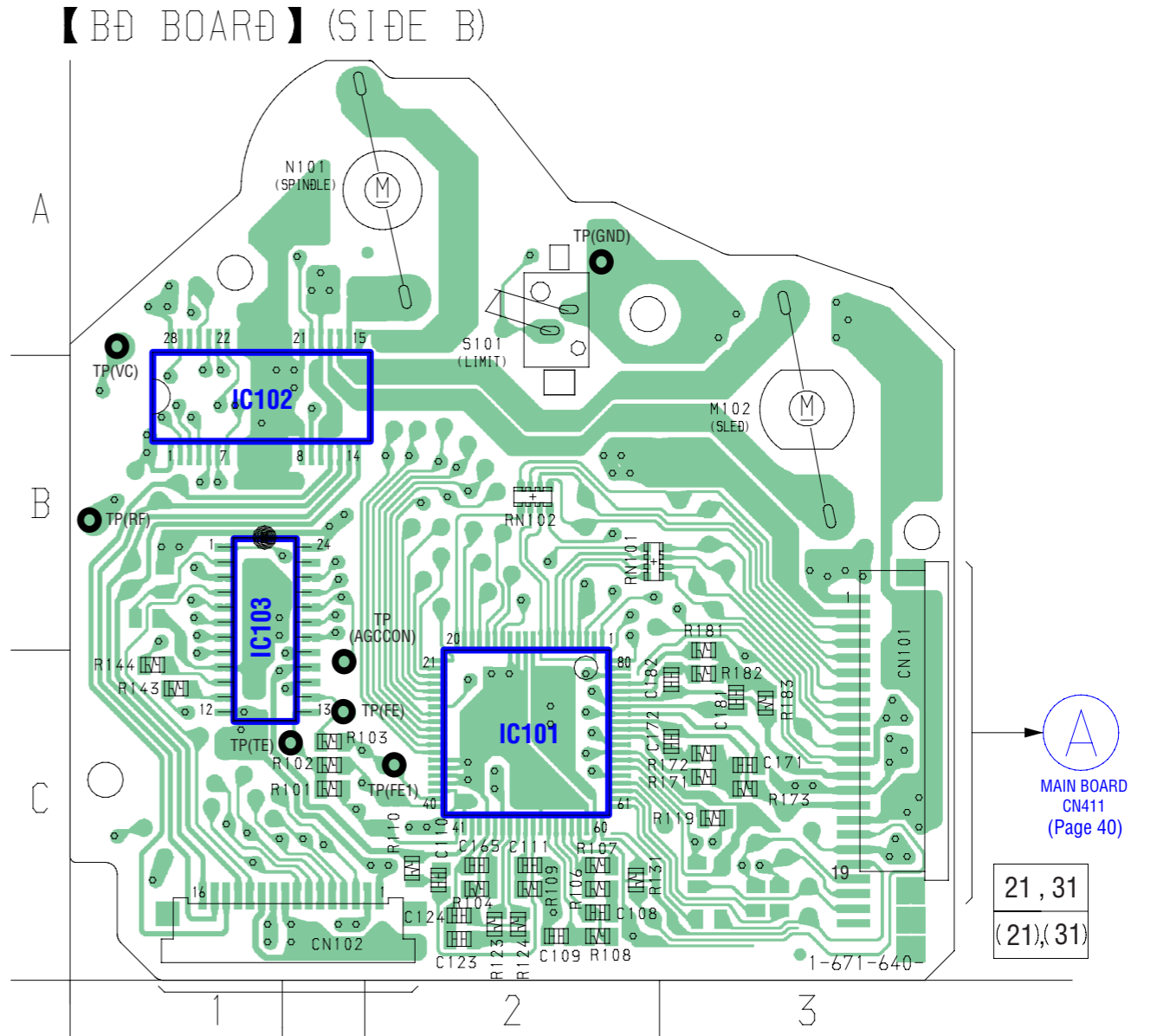


7-2. PRINTED WIRING BOARD – BD Board – • See page 25 for Circuit Boards Location.



• Semiconductor Location

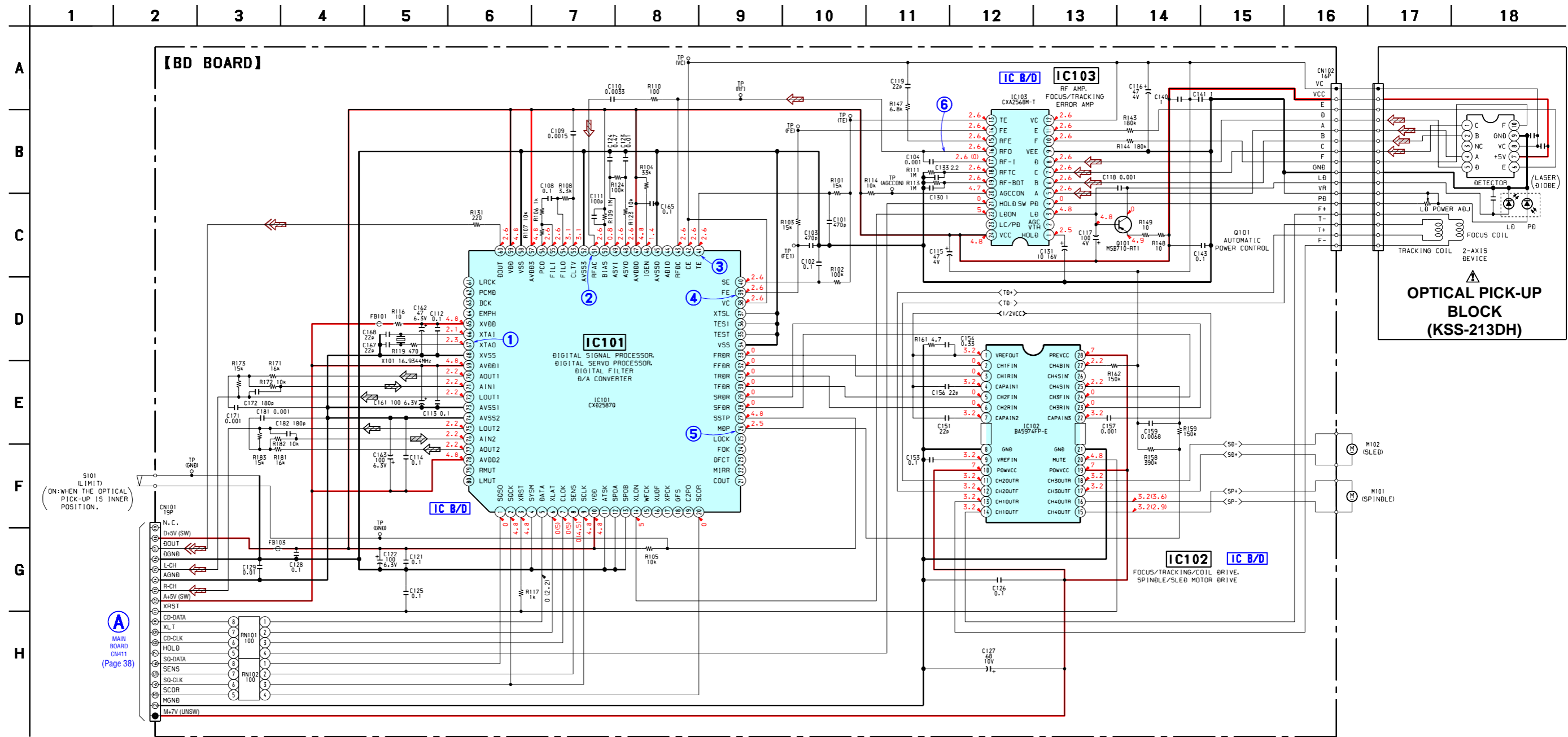
Ref. No.	Location
Q101	C-3



• Semiconductor Location

Ref. No.	Location
IC101	C-2
IC102	B-1
IC103	B-1

7-3. SCHEMATIC DIAGRAM – BD Board – • See page 25 for Waveforms. • See page 52 for IC Block Diagrams.

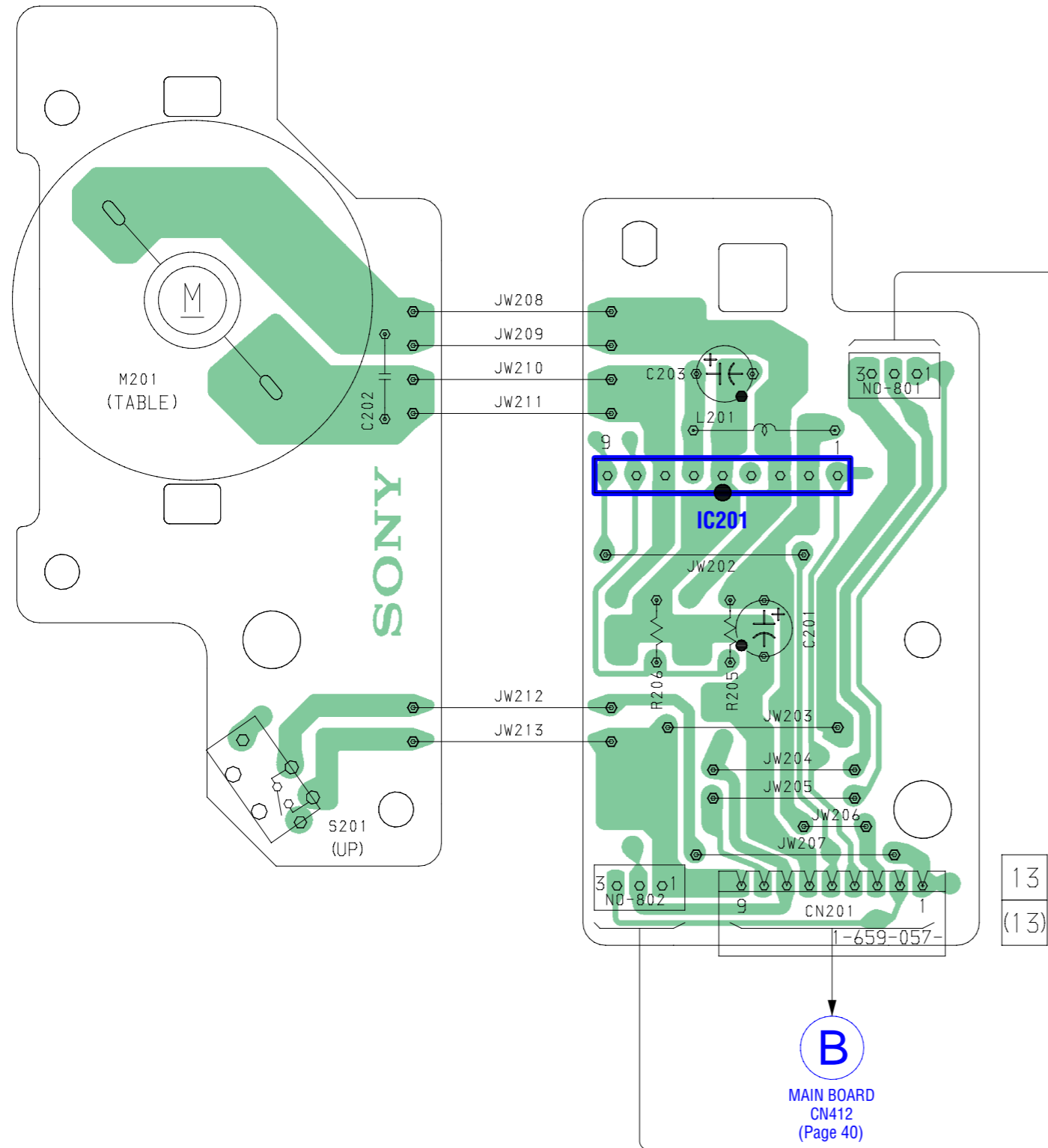


• Voltages and waveforms are dc with respect to ground under no-signal conditions.
 no mark : CD STOP
 () : CD PLAY

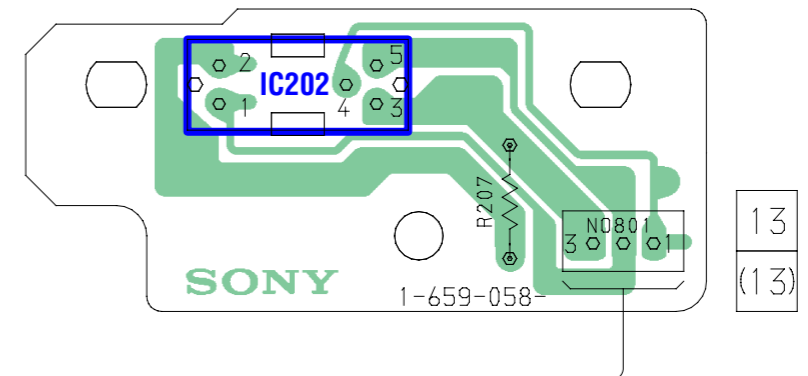
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

7-4. PRINTED WIRING BOARDS – CD MOTOR Section – • See page 25 for Circuit Boards Location.

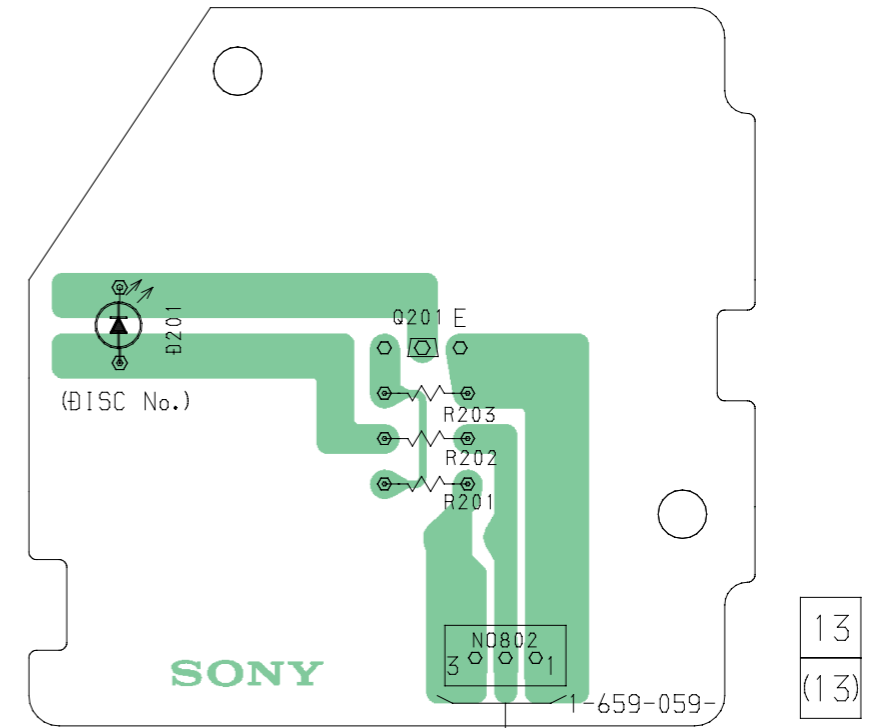
【 CD MOTOR BOARD 】



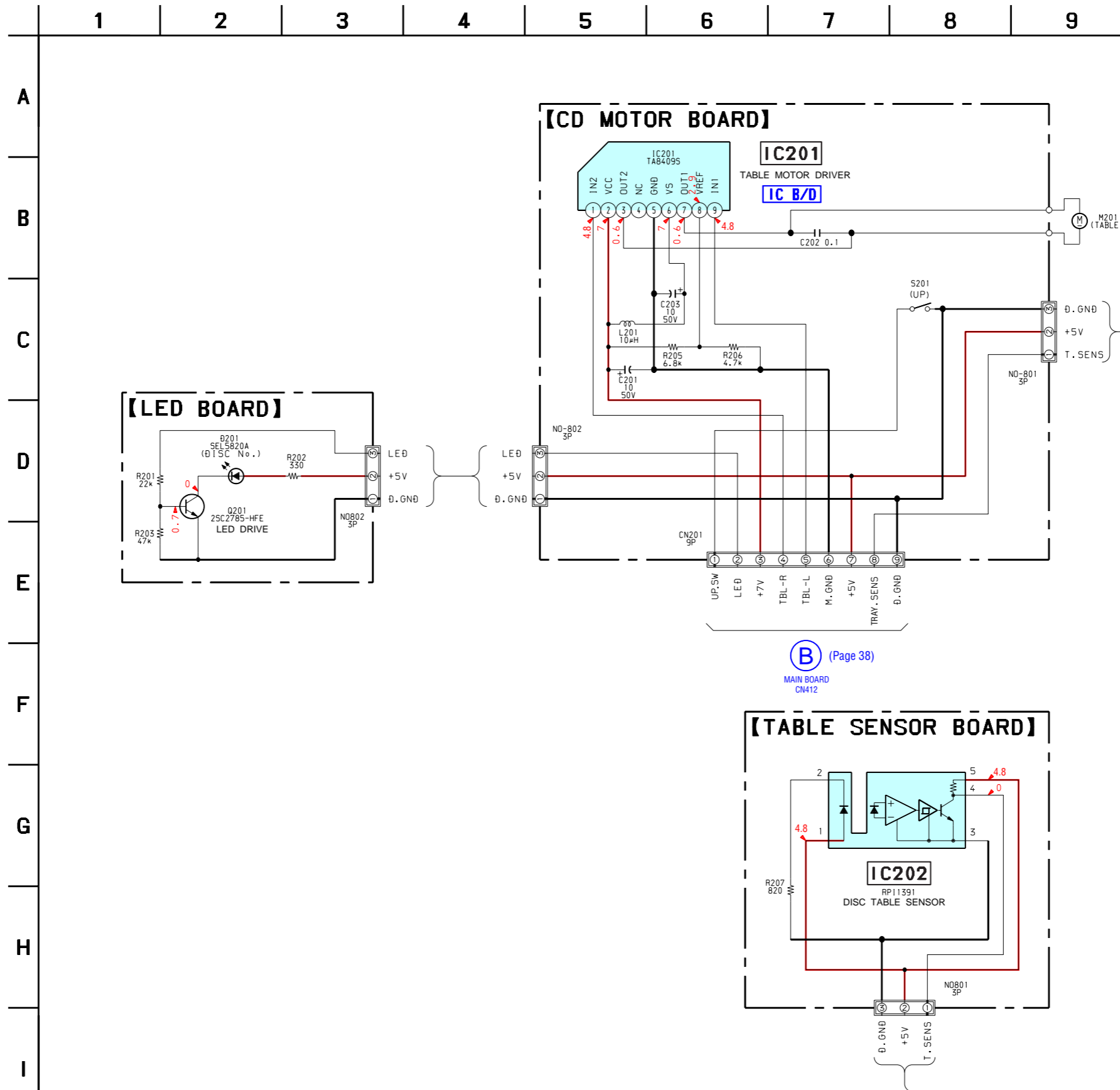
【 TABLE SENSOR BOARD 】



【 LED BOARD 】



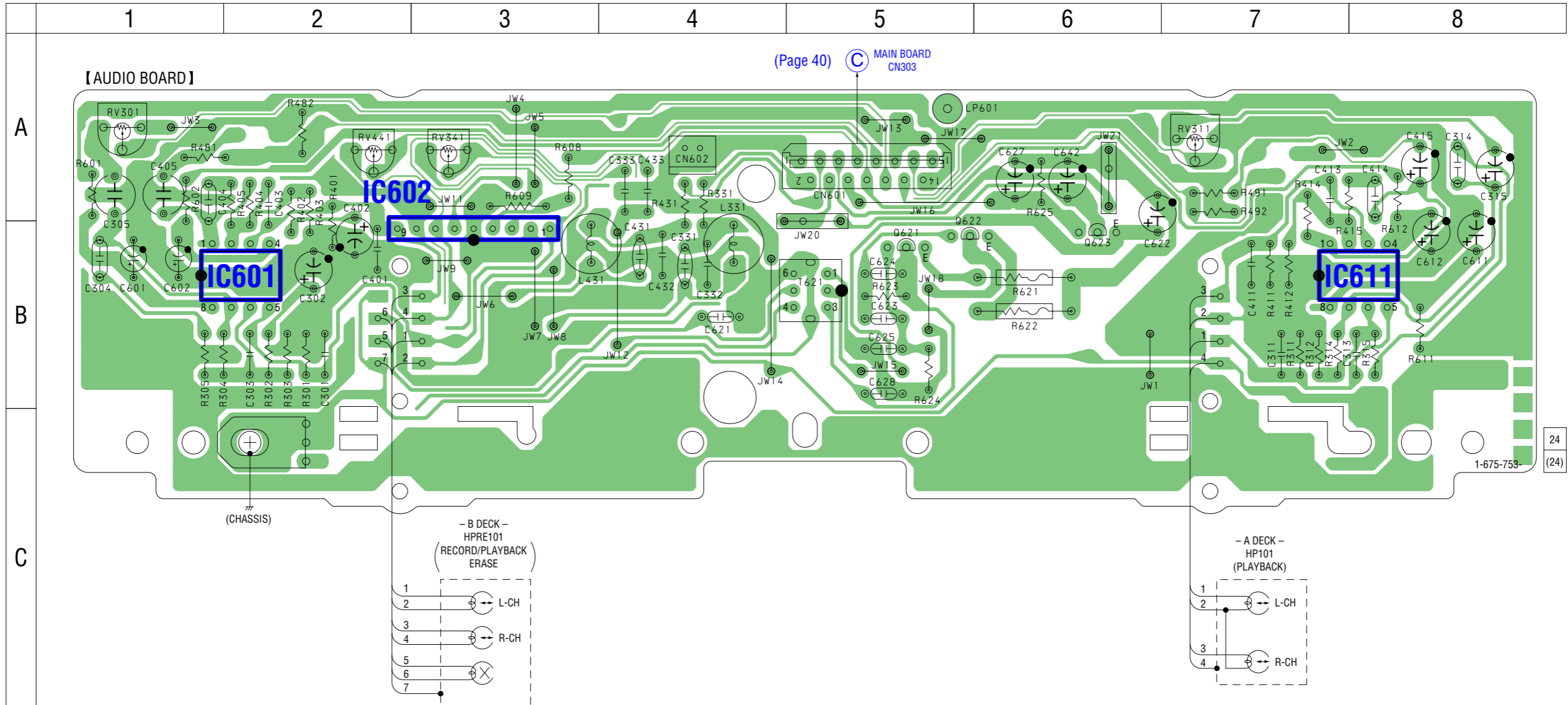
7-5. SCHEMATIC DIAGRAM – CD MOTOR Section – • See page 53 for IC Block Diagram.



(B) (Page 38)
MAIN BOARD
CN412

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

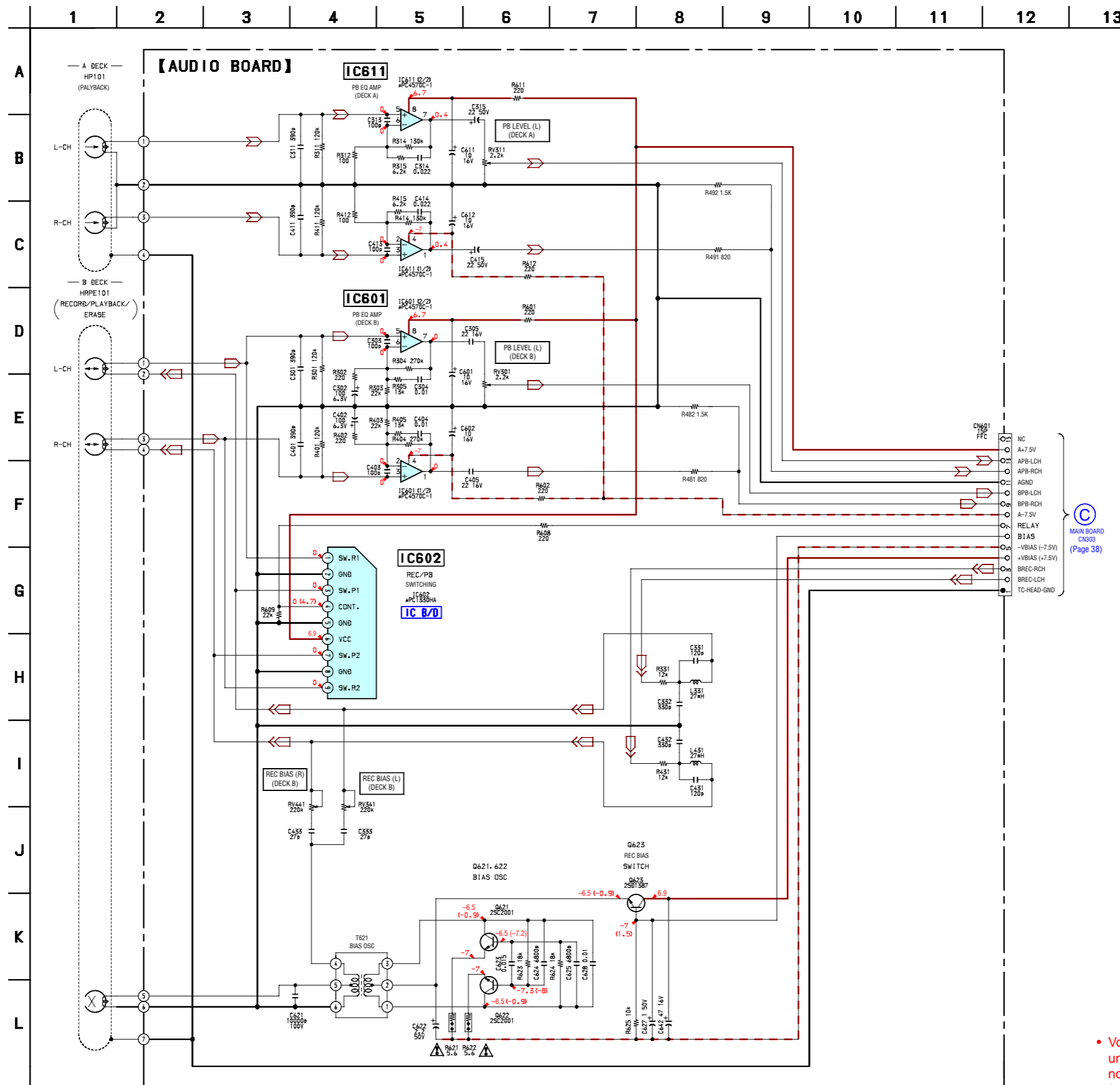
7-6. PRINTED WIRING BOARD – AUDIO Board – • See page 25 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
IC601	B-2
IC602	B-3
IC611	B-8
Q621	B-5
Q622	B-5
Q623	B-6

7-7. SCHEMATIC DIAGRAM – AUDIO Board – • See page 53 for IC Block Diagram.

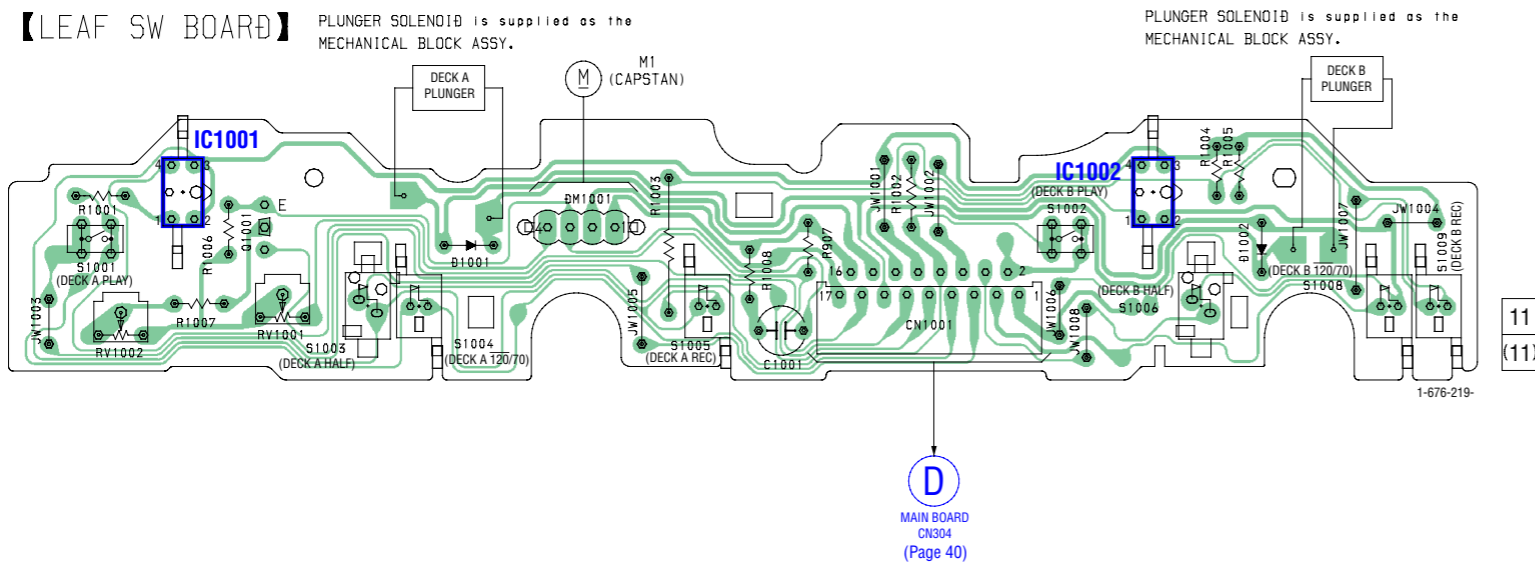


MAIN BOARD
CN303
(Page 38)

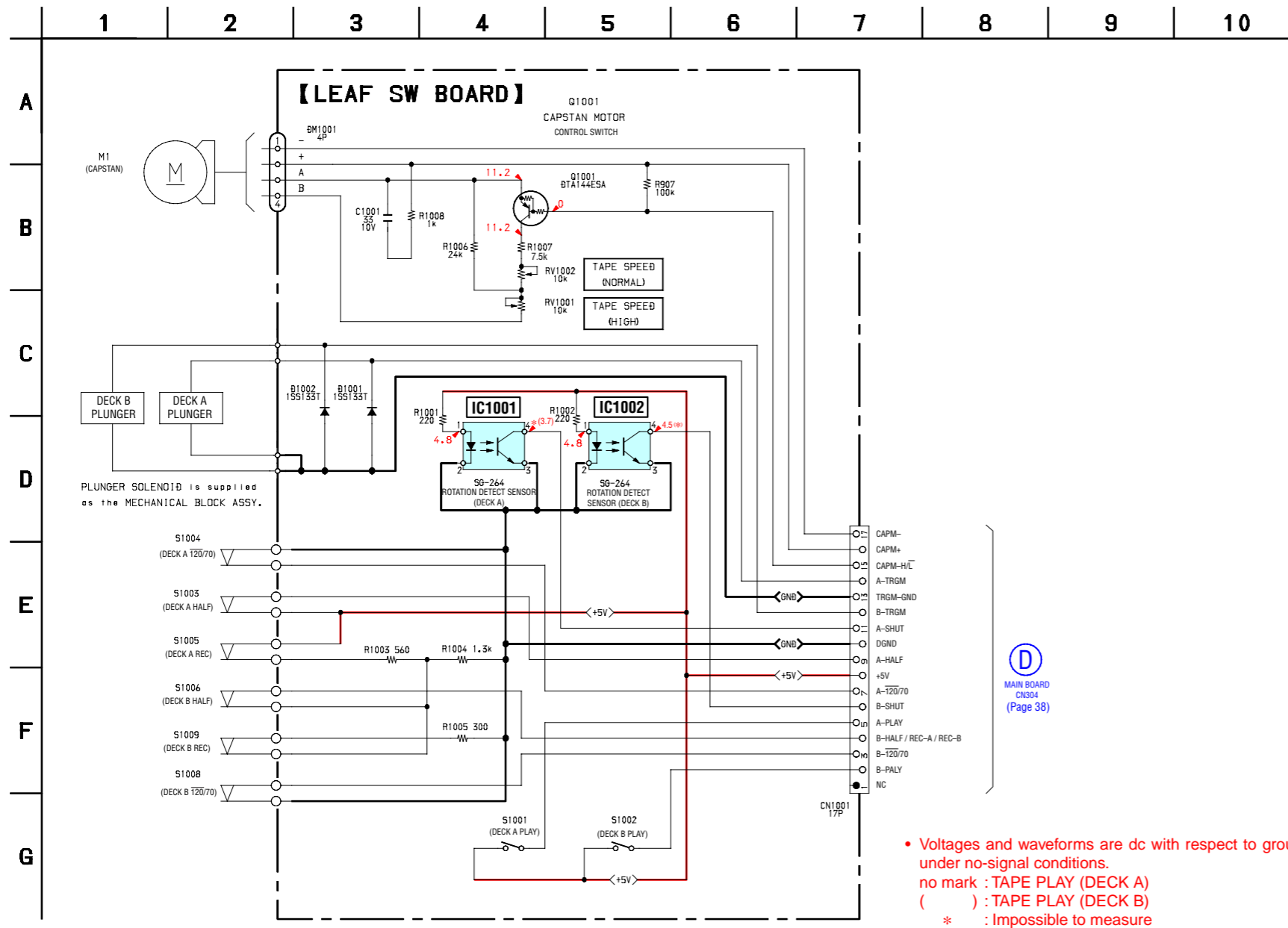
• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark : TAPE PLAY
() : RECORD

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

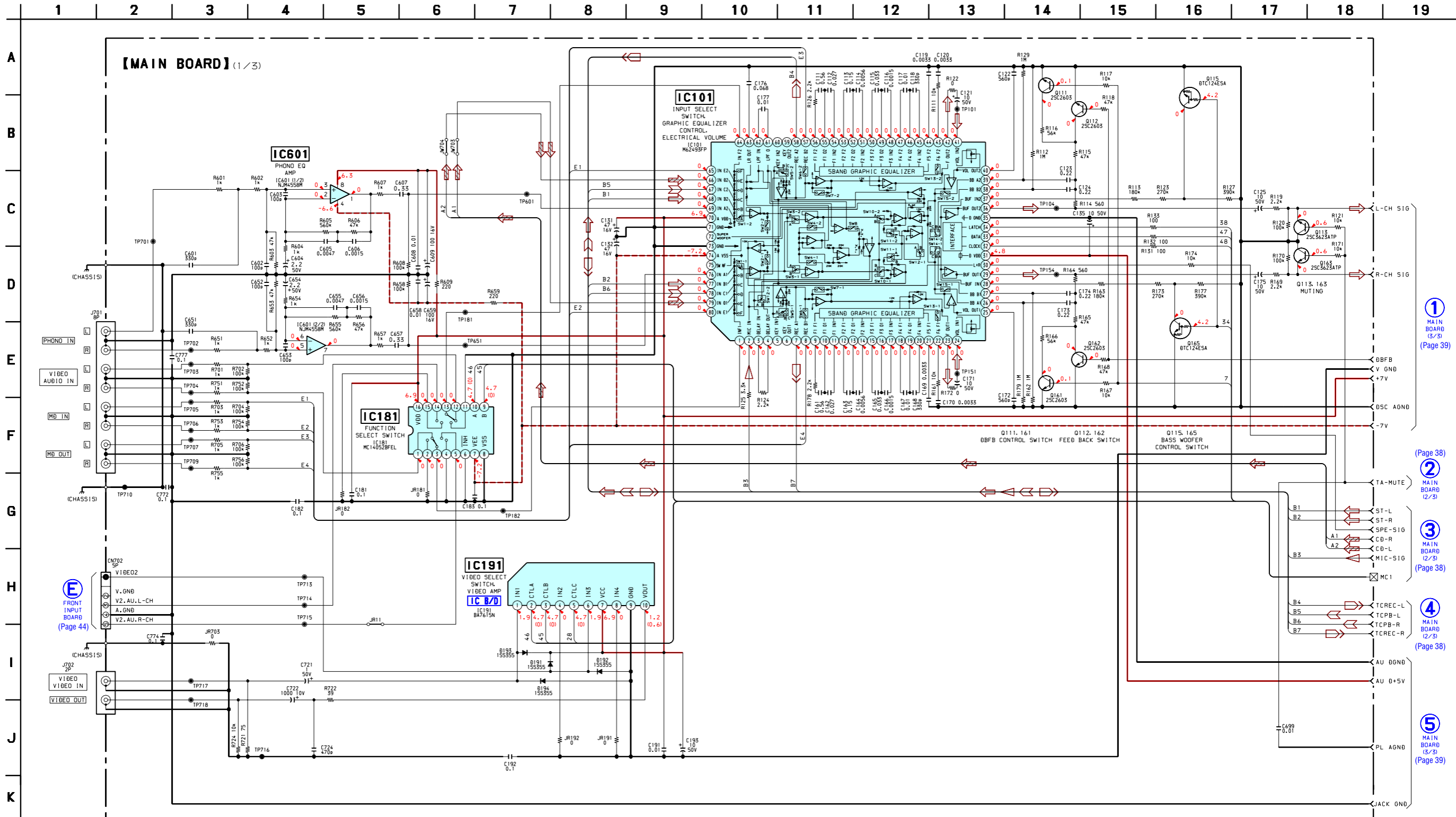
7-8. PRINTED WIRING BOARD – LEAF SW Board – • See page 25 for Circuit Boards Location.



7-9. SCHEMATIC DIAGRAM – LEAF SW Board –



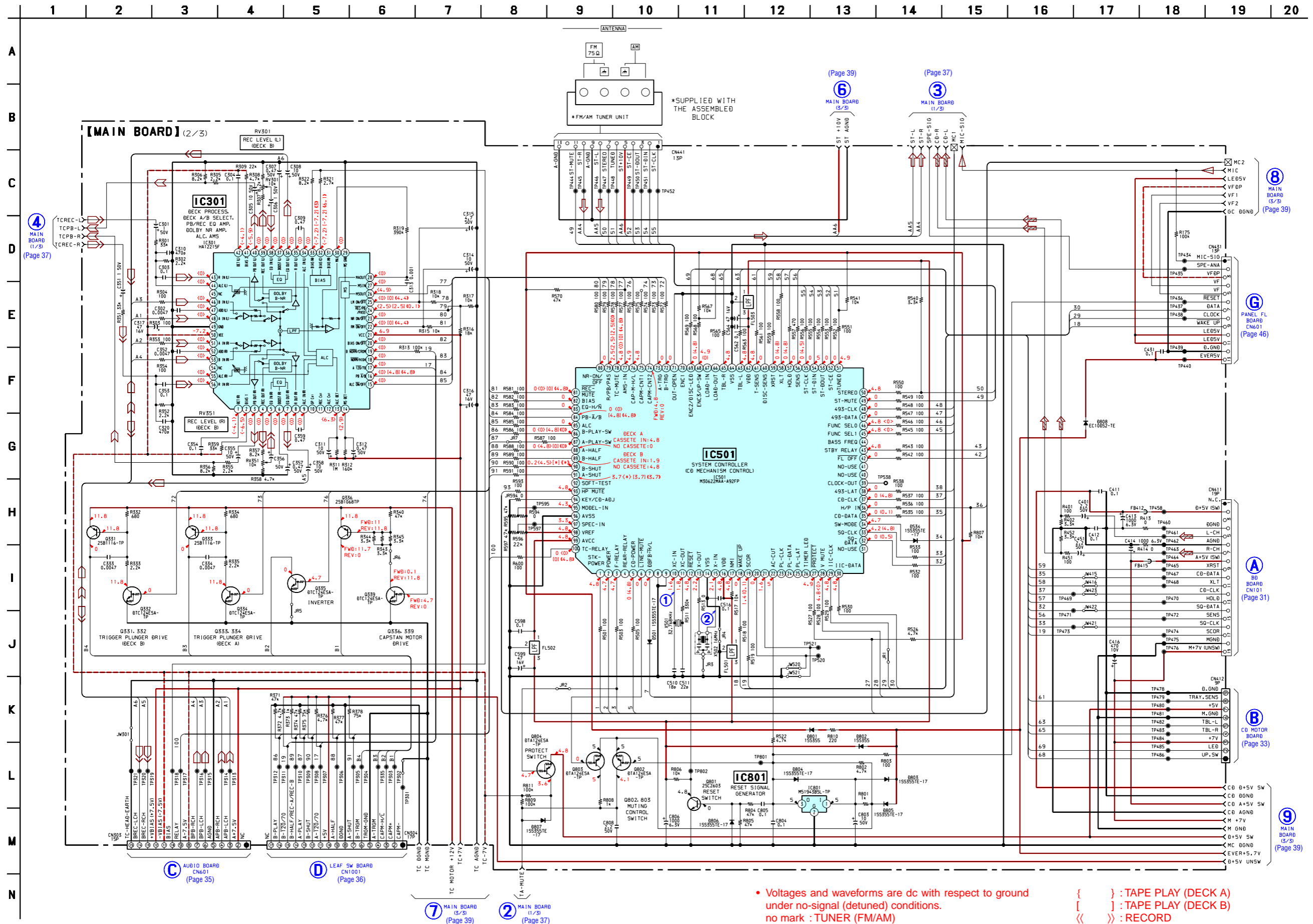
7-10. SCHEMATIC DIAGRAM – MAIN Board (1/3) – • See page 53 for IC Block Diagram.



- ① MAIN BOARD (3/3) (Page 39)
- ② MAIN BOARD (2/3)
- ③ MAIN BOARD (2/3) (Page 38)
- ④ MAIN BOARD (2/3) (Page 38)
- ⑤ MAIN BOARD (3/3) (Page 39)

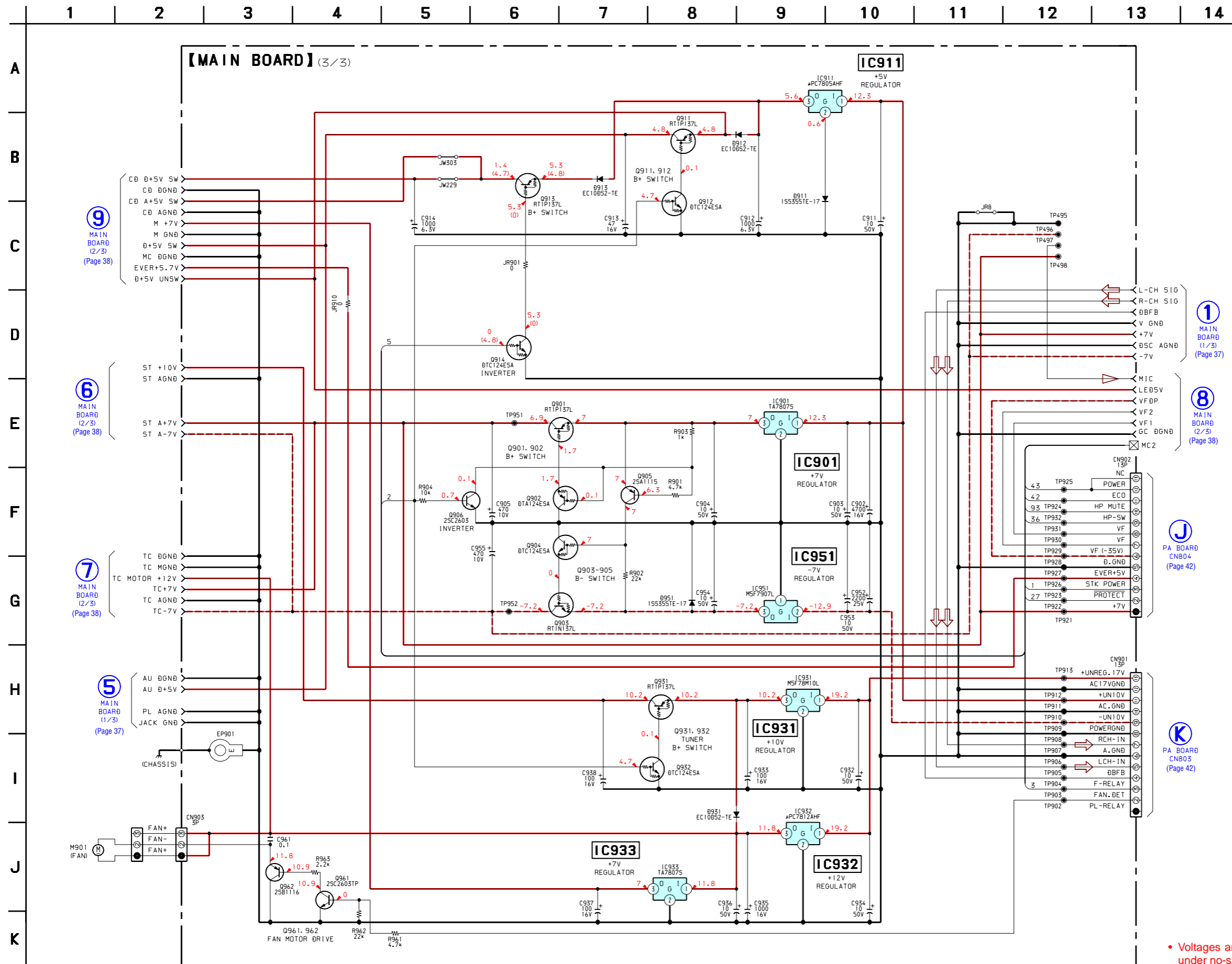
• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
 no mark : TUNER (FM/AM)
 () : VIDEO

7-11. SCHEMATIC DIAGRAM – MAIN Board (2/3) – • See page 25 for Waveforms. • See page 54 for IC Pin Function Description.



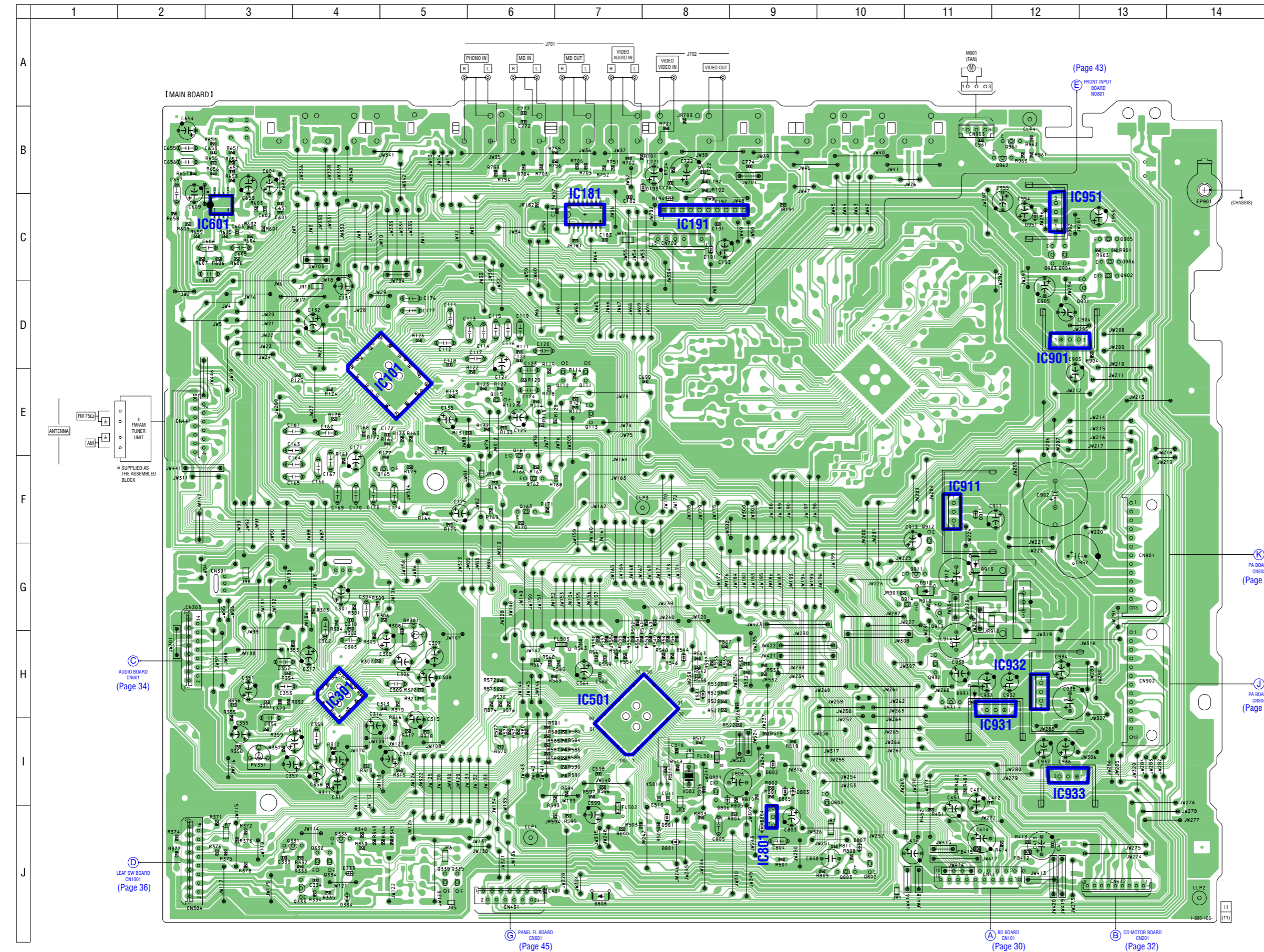
• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
 no mark : TUNER (FM/AM)
 () : CD PLAY
 < > : VIDEO
 { } : TAPE PLAY (DECK A)
 [] : TAPE PLAY (DECK B)
 << >> : RECORD
 * : Impossible to measure

7-12. SCHEMATIC DIAGRAM – MAIN Board (3/3) –



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

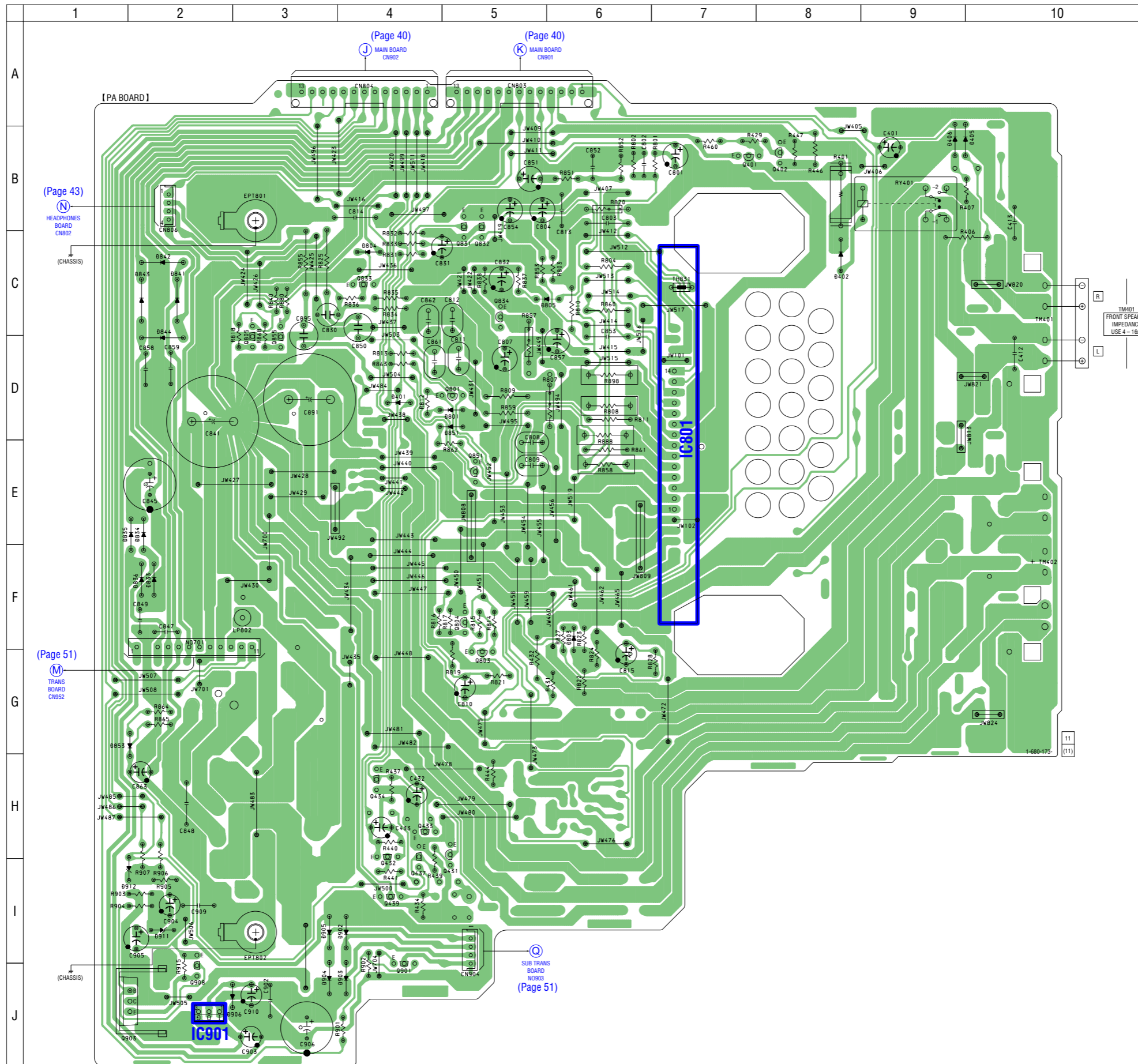
7-13. PRINTED WIRING BOARD – MAIN Board – • See page 25 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
D191	C-8
D192	C-8
D193	B-8
D194	C-8
D501	J-8
D534	H-8
D801	J-8
D802	I-9
D803	I-9
D804	J-9
D805	I-9
D806	I-8
D807	J-10
D808	J-7
D911	F-11
D912	G-11
D913	G-11
D931	H-11
D951	C-12
IC101	E-5
IC181	C-7
IC191	C-8
IC301	H-4
IC501	H-7
IC601	C-3
IC801	J-9
IC901	D-12
IC911	F-11
IC931	H-12
IC932	H-12
IC933	I-12
IC951	C-12
Q111	E-7
Q112	E-7
Q113	E-7
Q115	E-6
Q161	E-6
Q162	F-6
Q163	F-6
Q165	F-5
Q331	J-4
Q332	J-4
Q333	J-4
Q334	J-4
Q335	J-5
Q336	J-4
Q339	J-5
Q801	I-8
Q802	J-10
Q803	J-10
Q804	I-10
Q901	D-13
Q902	C-13
Q903	C-12
Q904	C-12
Q905	C-13
Q906	C-13
Q911	G-11
Q912	F-11
Q913	G-11
Q914	G-11
Q931	H-11
Q932	H-11
Q961	B-12
Q962	B-12

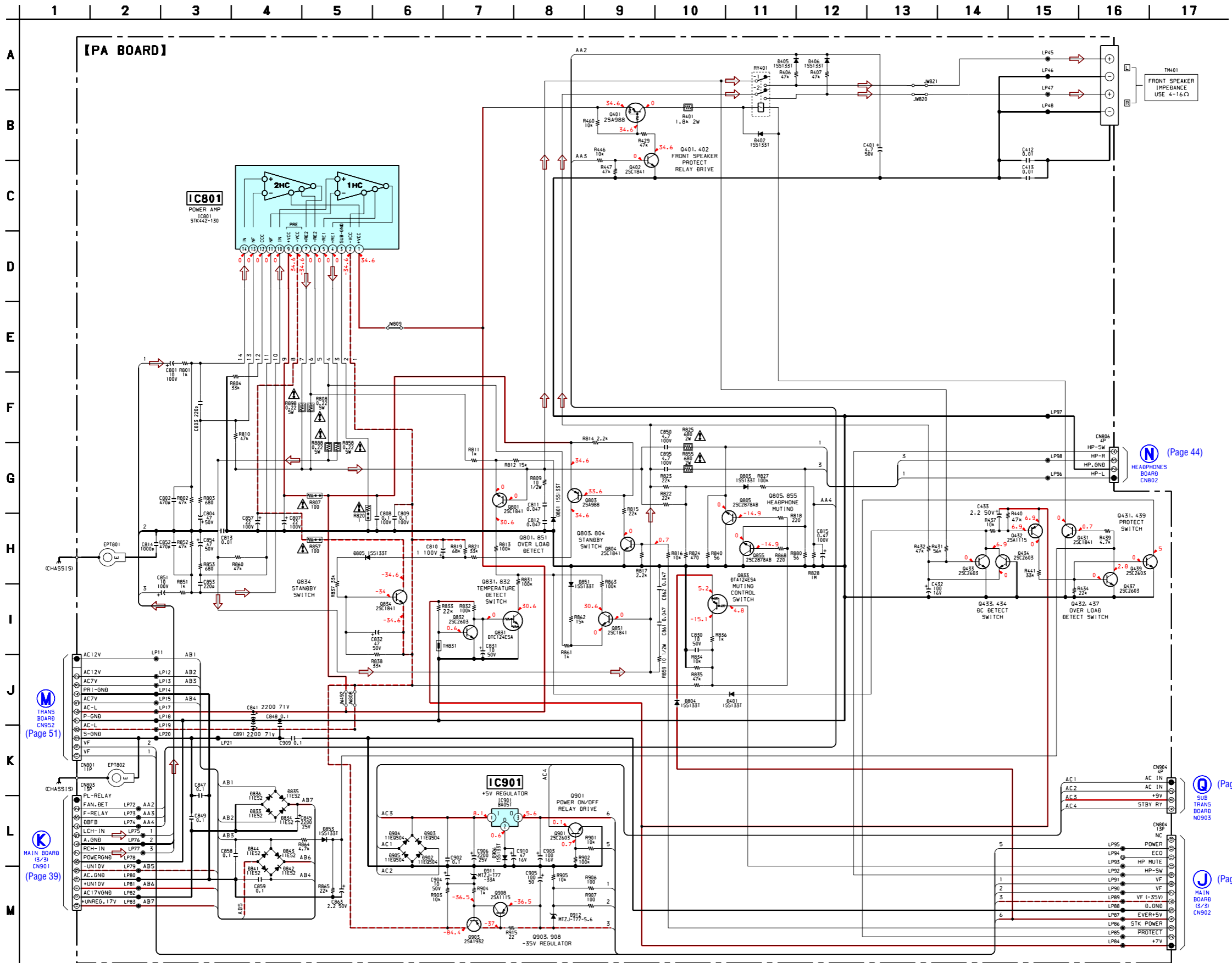
7-14. PRINTED WIRING BOARD – PA Board – • See page 25 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
D401	D-4
D402	C-8
D405	B-9
D406	B-9
D801	D-5
D803	F-6
D804	C-4
D805	C-6
D833	F-2
D834	E-2
D835	E-2
D836	F-2
D841	C-2
D842	C-2
D843	C-2
D844	D-2
D851	D-5
D853	G-2
D902	I-4
D903	J-4
D904	J-3
D905	I-3
D906	J-3
D911	I-2
D912	I-2
IC801	D-7
IC901	J-2
Q401	B-7
Q402	B-8
Q431	H-5
Q432	H-4
Q433	H-4
Q434	H-4
Q437	H-4
Q439	I-4
Q801	D-5
Q803	G-5
Q804	F-5
Q805	D-3
Q831	B-5
Q832	B-5
Q833	C-4
Q834	C-5
Q851	E-5
Q855	D-3
Q901	J-4
Q903	J-2
Q908	J-2

7-15. SCHEMATIC DIAGRAM – PA Board –



(M) TRANS BOARD CN952 (Page 51)

(K) MAIN BOARD (S/S) CN901 (Page 39)

(N) HEADPHONES BOARD CN802 (Page 44)

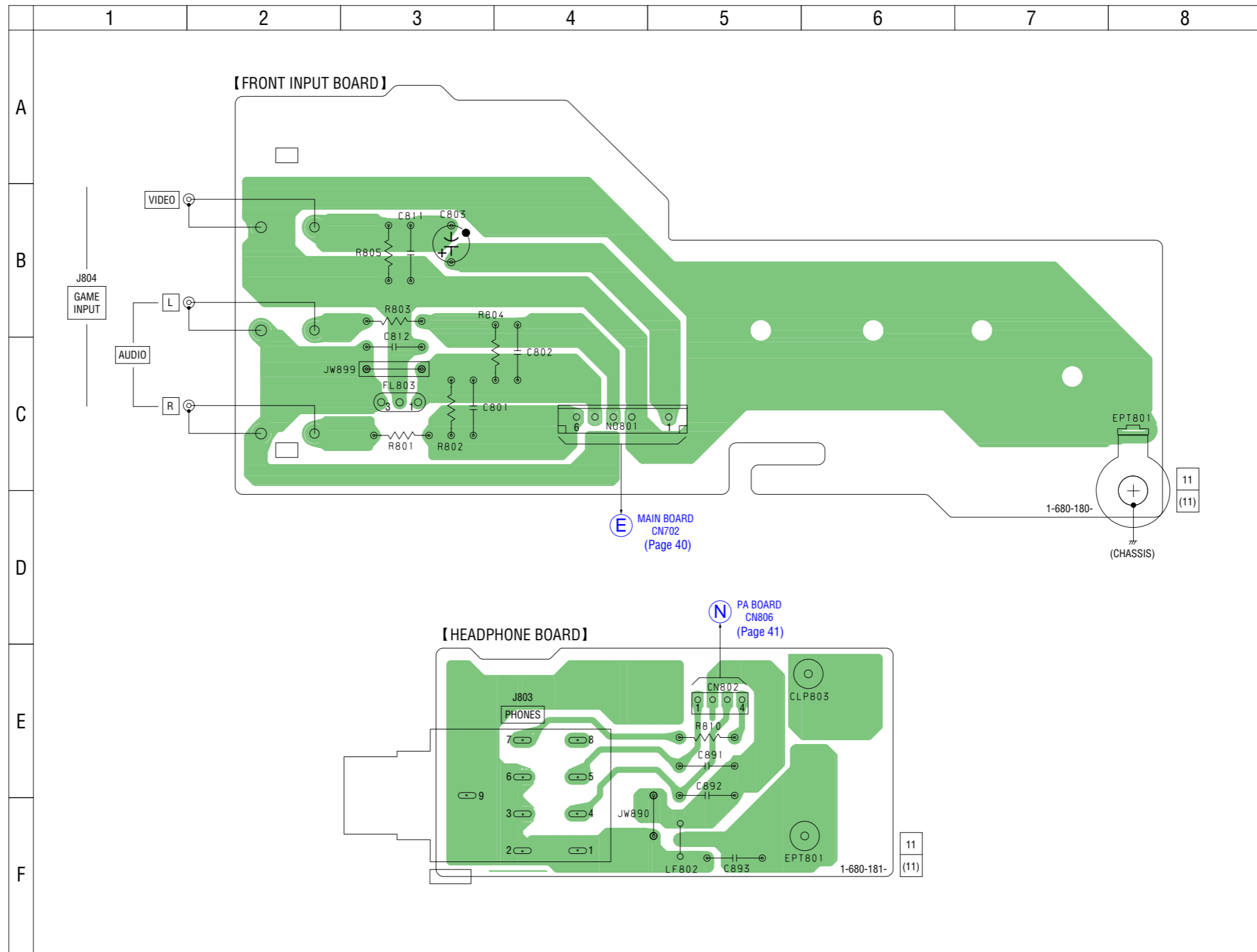
(Q) SUB TRANS BOARD N0903 (Page 51)

(J) MAIN BOARD (S/S) CN902 (Page 39)

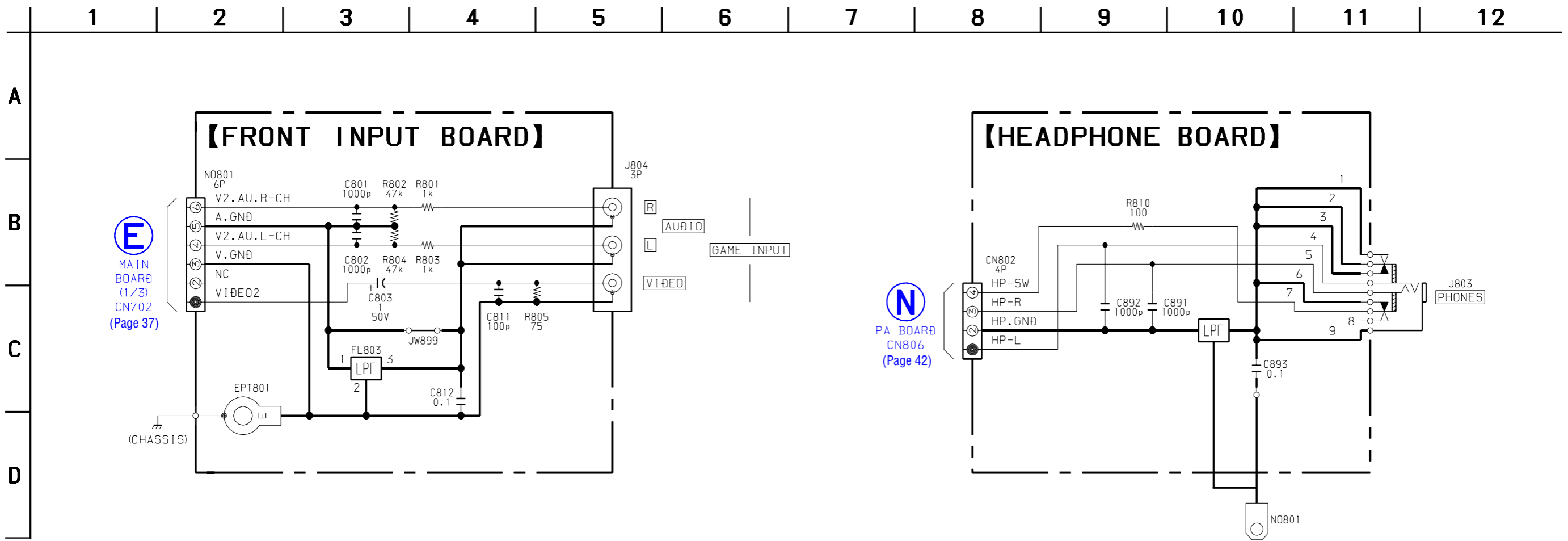
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

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

7-16. PRINTED WIRING BOARDS – FRONT INPUT/HEADPHONE Boards – • See page 25 for Circuit Boards Location.

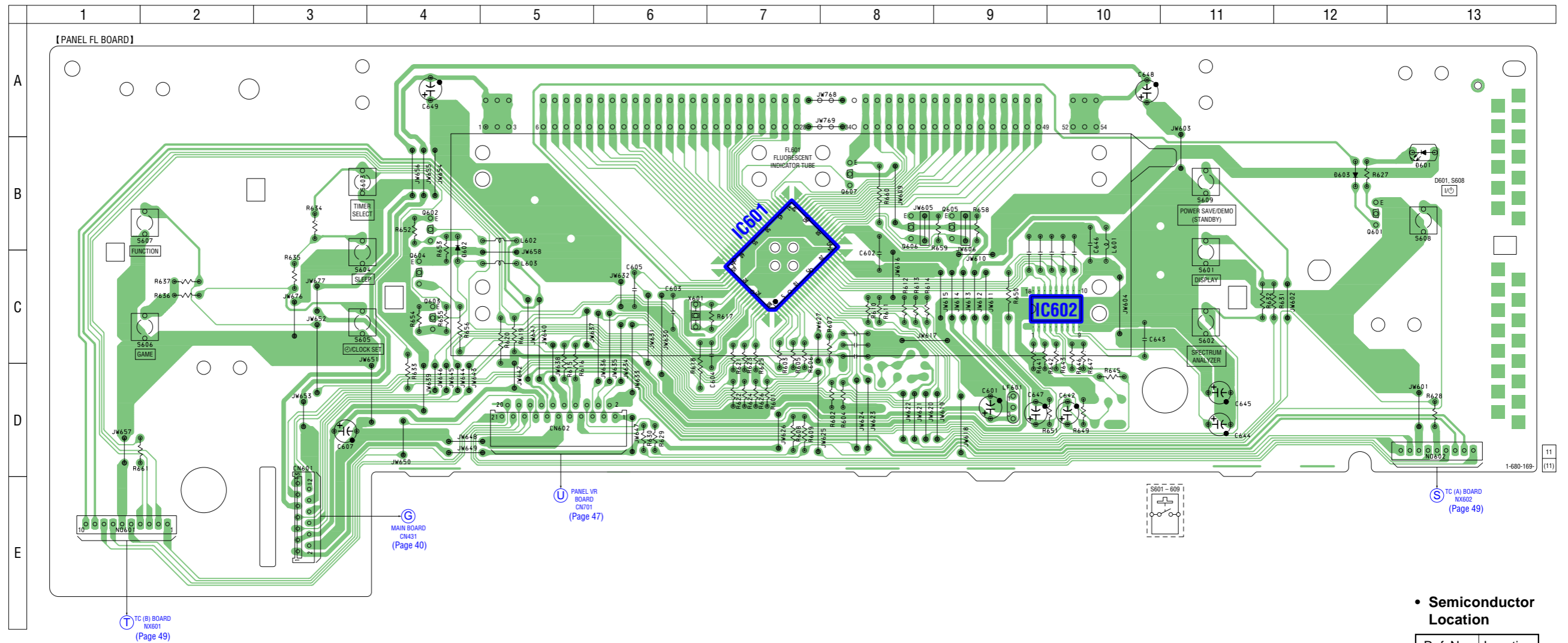


7-17. SCHEMATIC DIAGRAM – FRONT INPUT/HEADPHONE Boards –



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

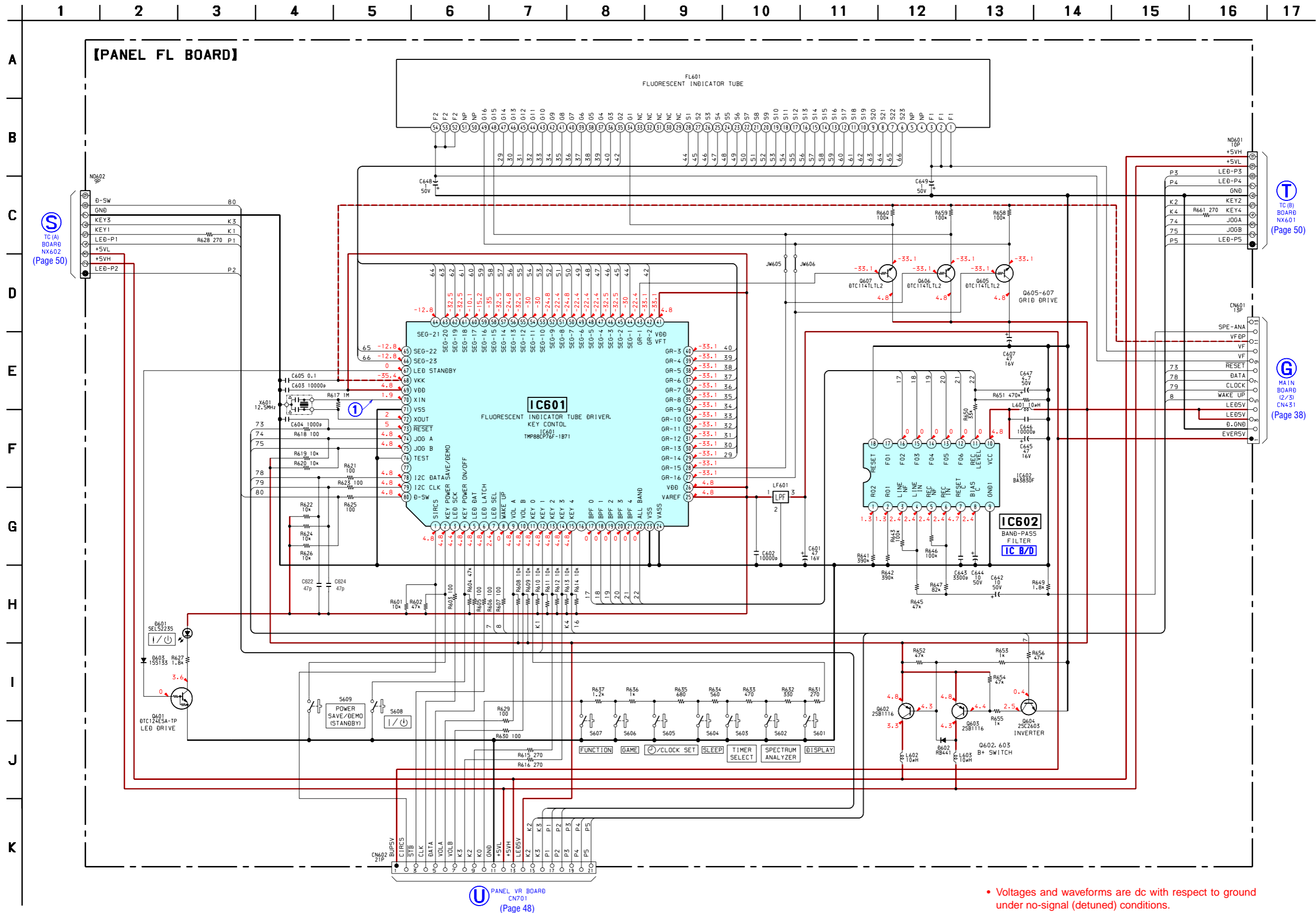
7-18. PRINTED WIRING BOARD – PANEL FL Board – • See page 25 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
D601	B-13
D602	B-4
D603	B-12
IC601	C-7
IC602	C-10
Q601	B-12
Q602	B-4
Q603	C-4
Q604	C-4
Q605	B-9
Q606	B-8
Q607	B-8

7-19. SCHEMATIC DIAGRAM – PANEL FL Board – • See page 25 for Waveform. • See page 53 for IC Block Diagram.



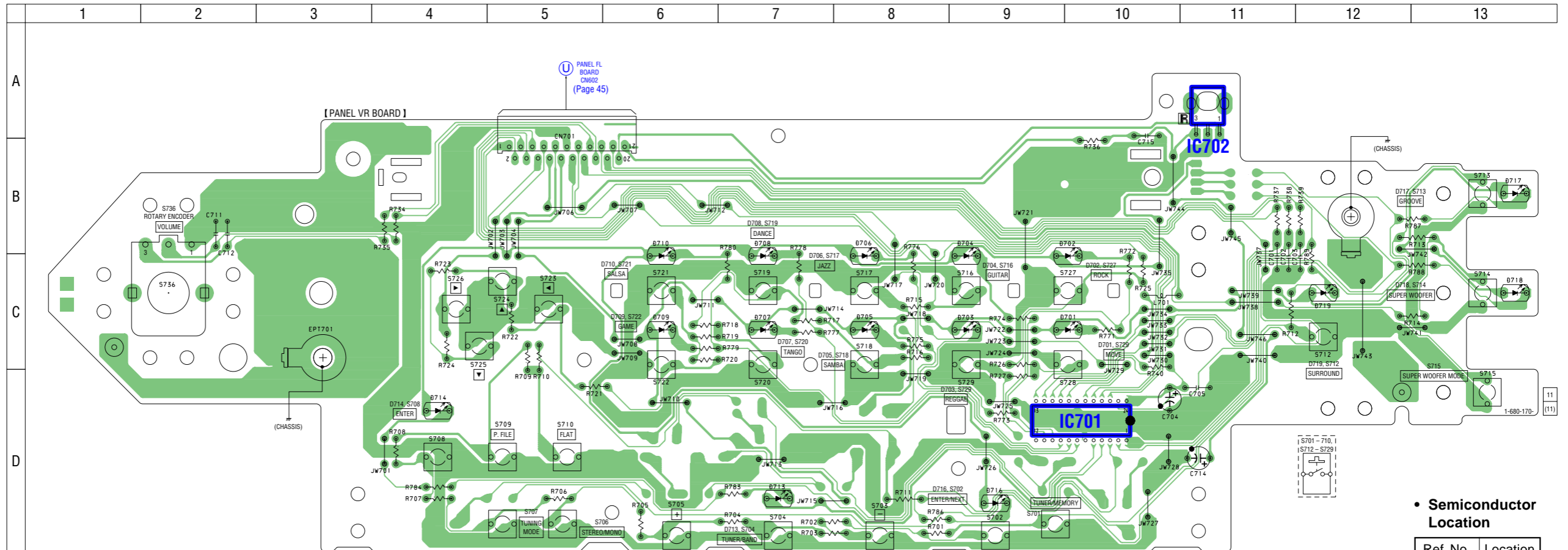
TC (A) BOARD NX602 (Page 50)

MAIN BOARD (2/3) NX601 (Page 38)

PANEL VR BOARD CN701 (Page 48)

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

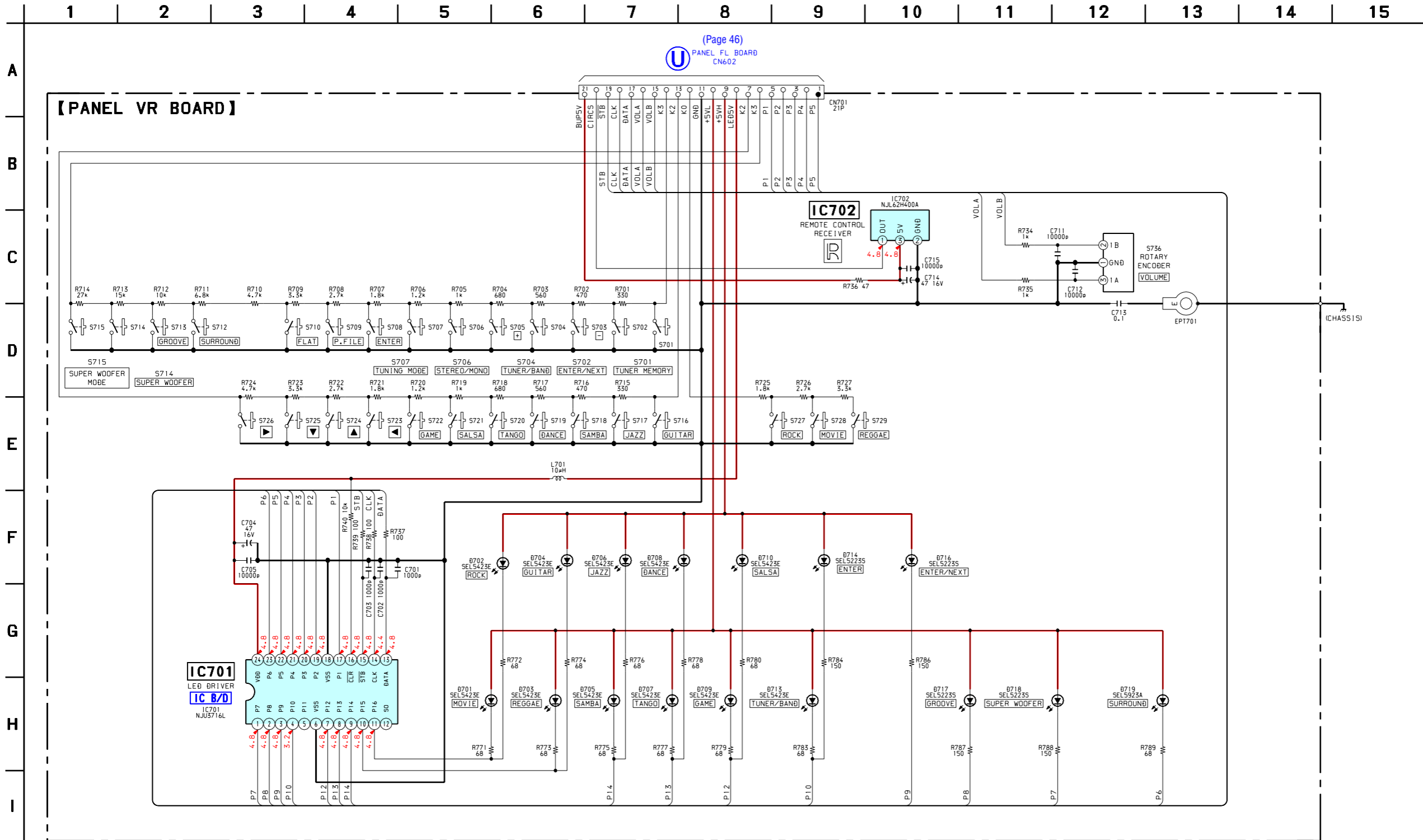
7-20. PRINTED WIRING BOARDS – PANEL VR Board – • See page 25 for Circuit Boards Location.



• Semiconductor Location

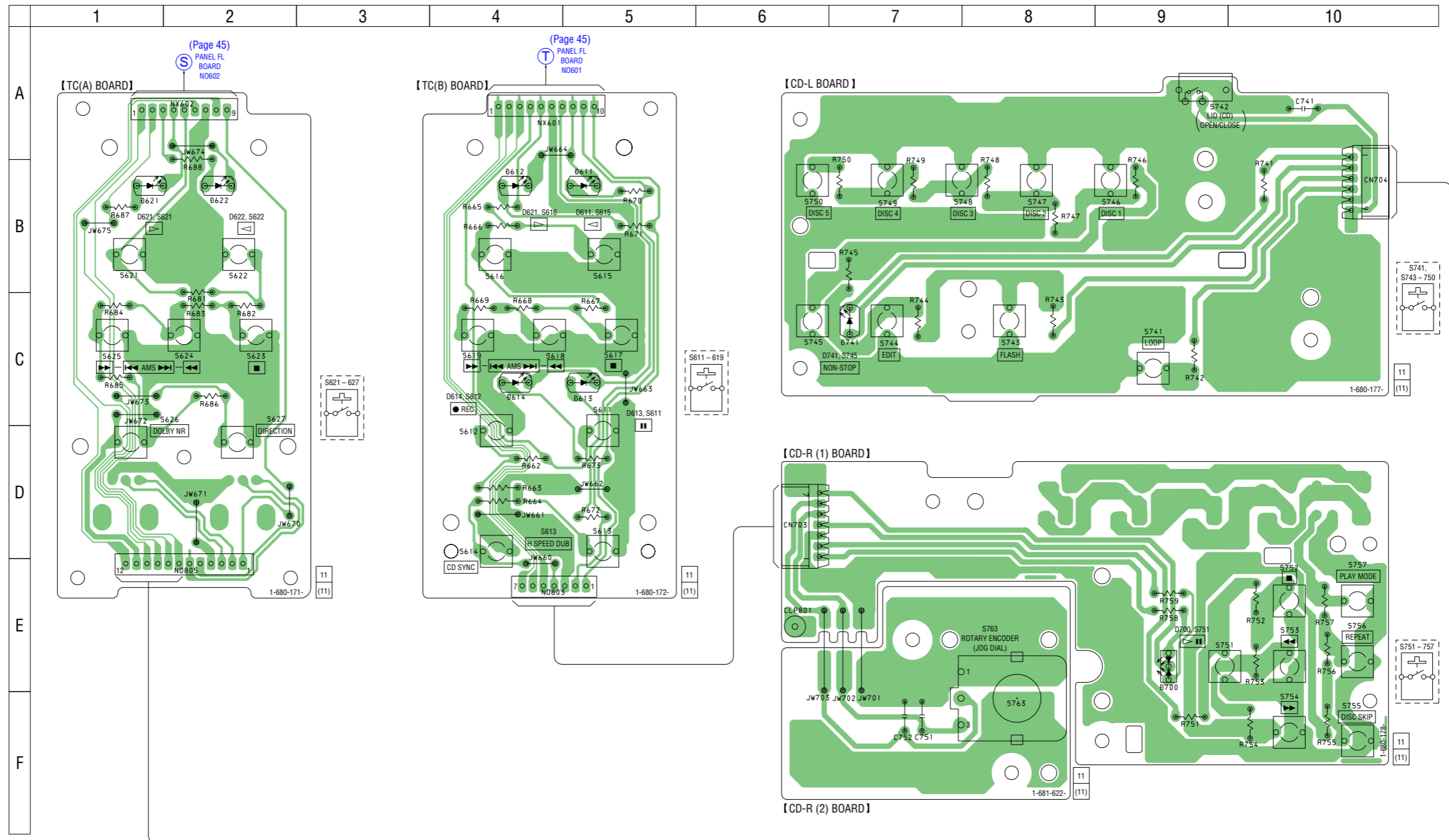
Ref. No.	Location
D701	C-10
D702	C-10
D703	C-9
D704	C-9
D705	C-8
D706	C-8
D707	C-7
D708	C-7
D709	C-6
D710	C-6
D713	D-7
D714	D-4
D716	D-9
D717	B-13
D718	C-13
D719	C-12
D791	A-11
IC701	D-10
IC702	A-11

7-21. SCHEMATIC DIAGRAM – PANEL VR Board – • See page 53 for IC Block Diagram.



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

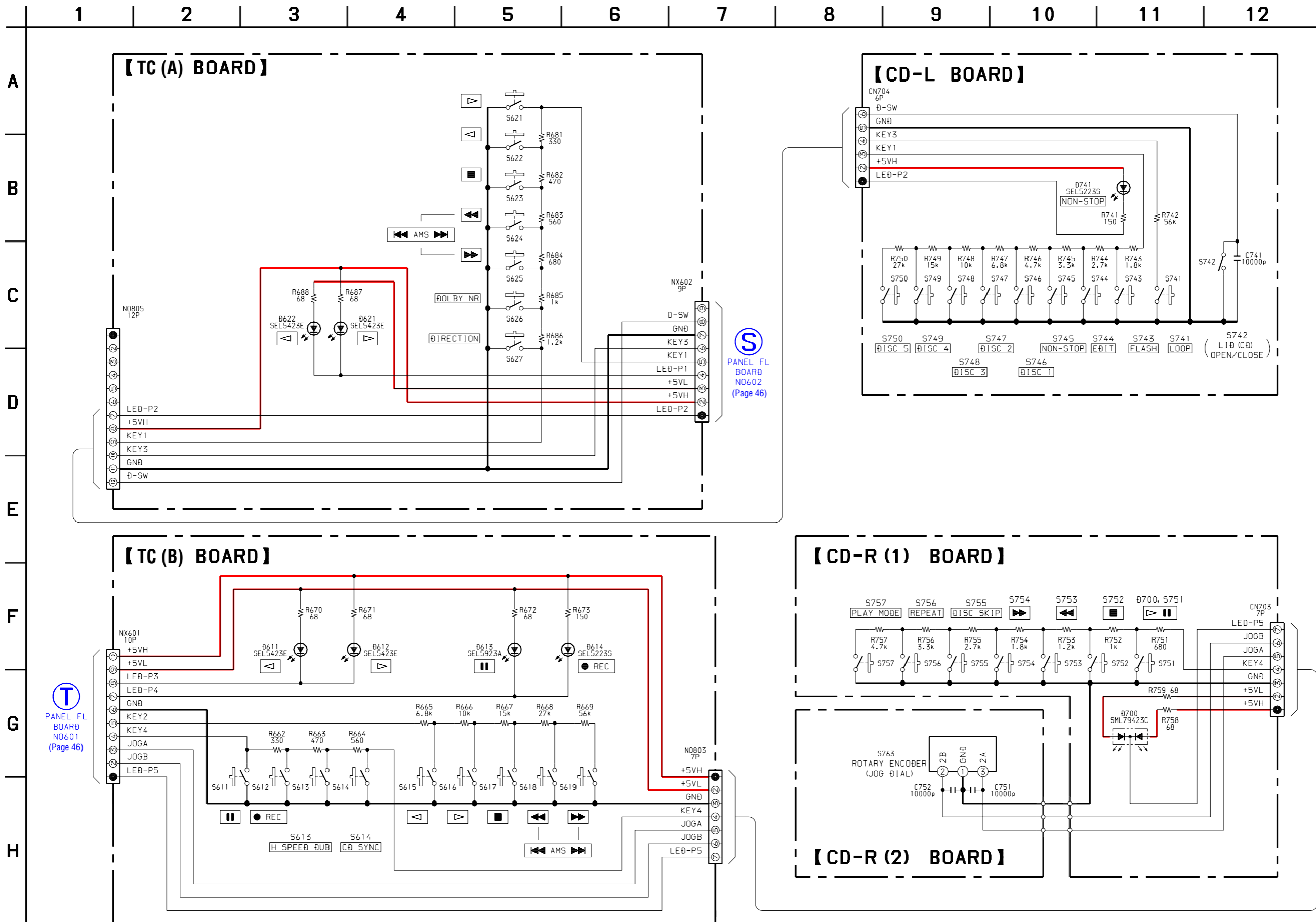
7-22. PRINTED WIRING BOARDS – TC (A)/TC (B)/CD-L/CD-R (1)/CD-R (2) Boards – • See page 25 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
D611	B-5
D612	B-4
D613	C-5
D614	C-4
D621	B-1
D622	B-2
D700	E-9
D741	C-7

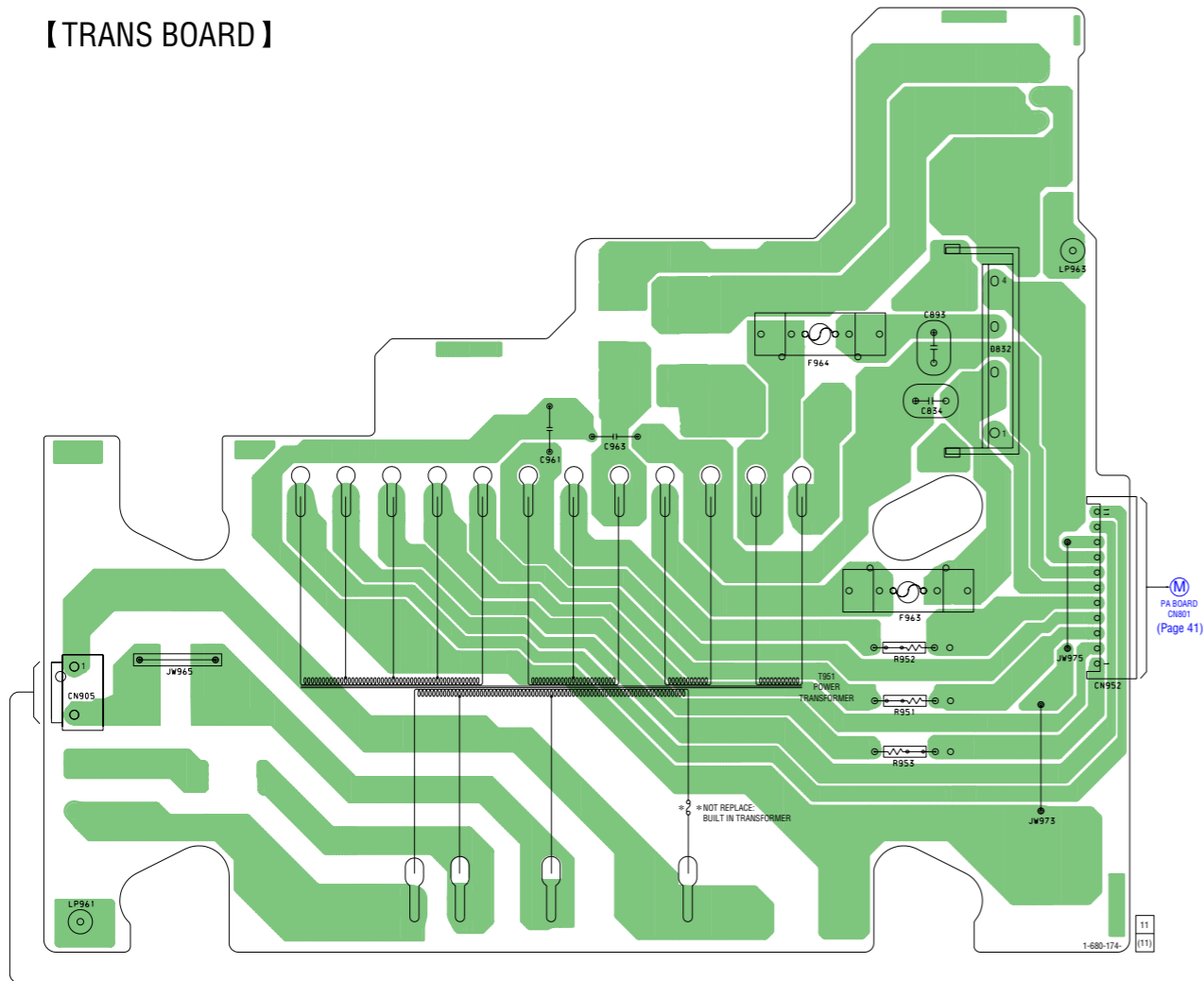
7-23. SCHEMATIC DIAGRAM -TC (A)/TC (B)/CD-L/CD-R (1)/CD-R (2) Boards -



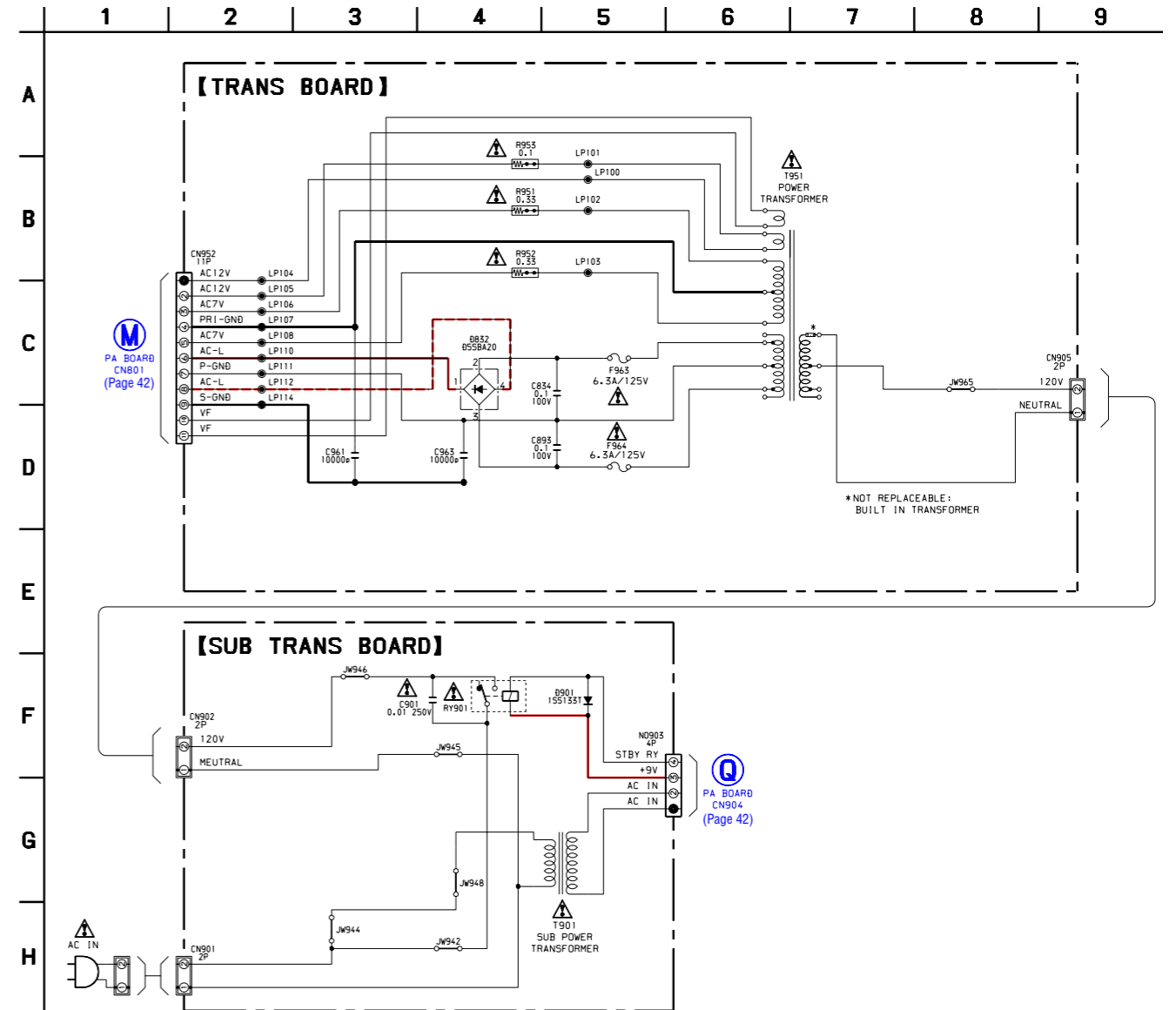
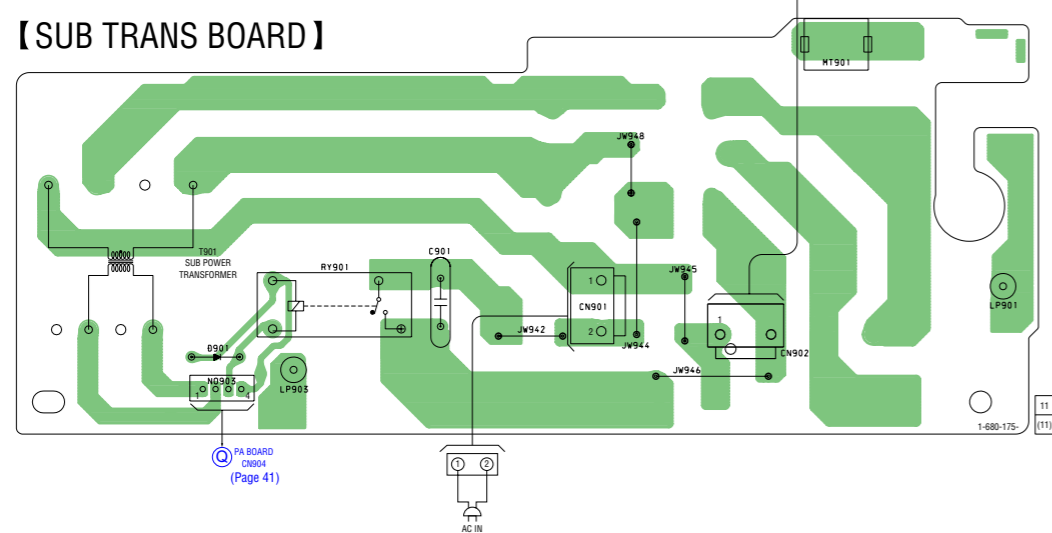
7-24. PRINTED WIRING BOARDS – TRANSFORMER Section– • See page 25 for Circuit Boards Location.

7-25. SCHEMATIC DIAGRAM – TRANSFORMER Section –

【TRANS BOARD】



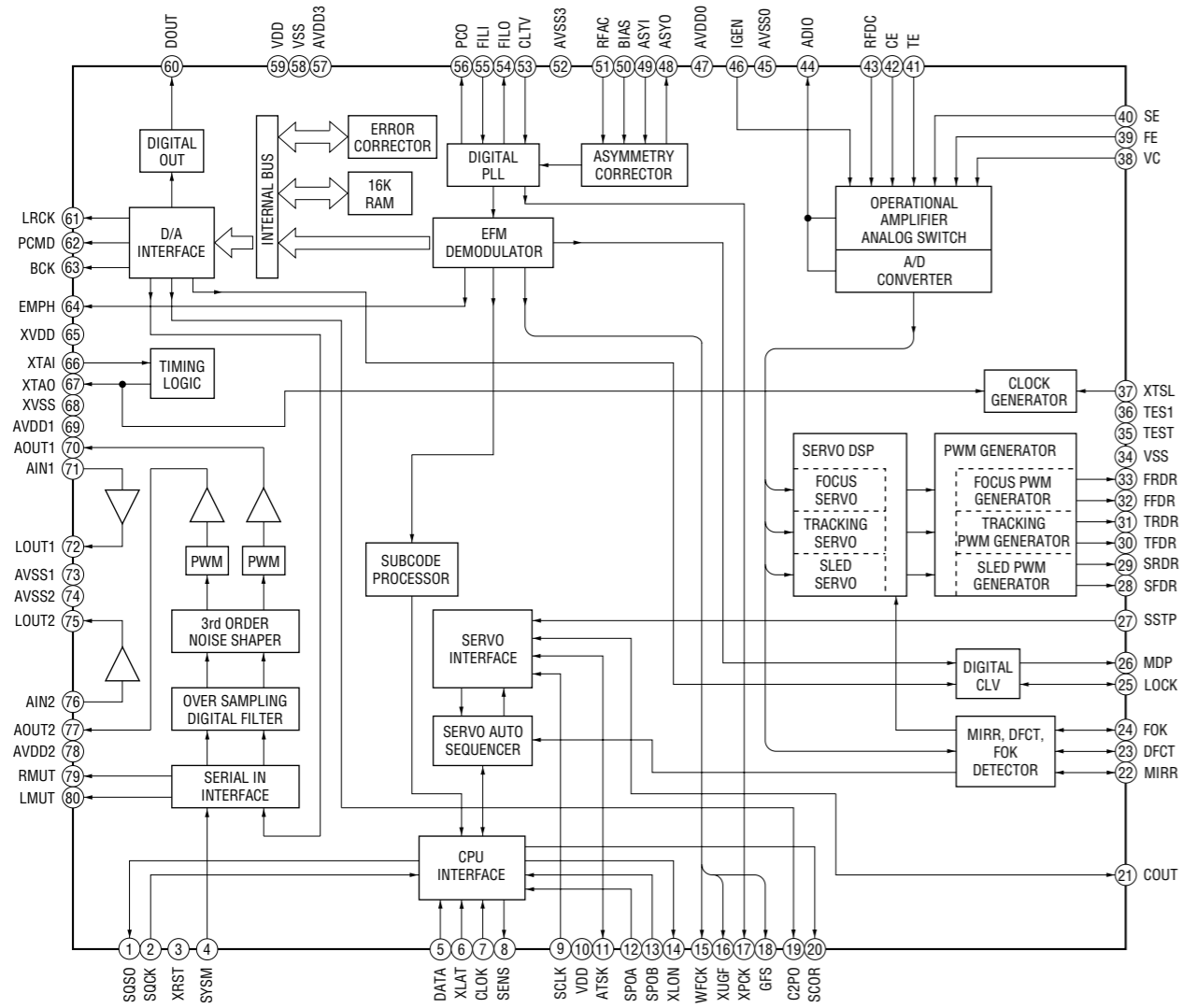
【SUB TRANS BOARD】



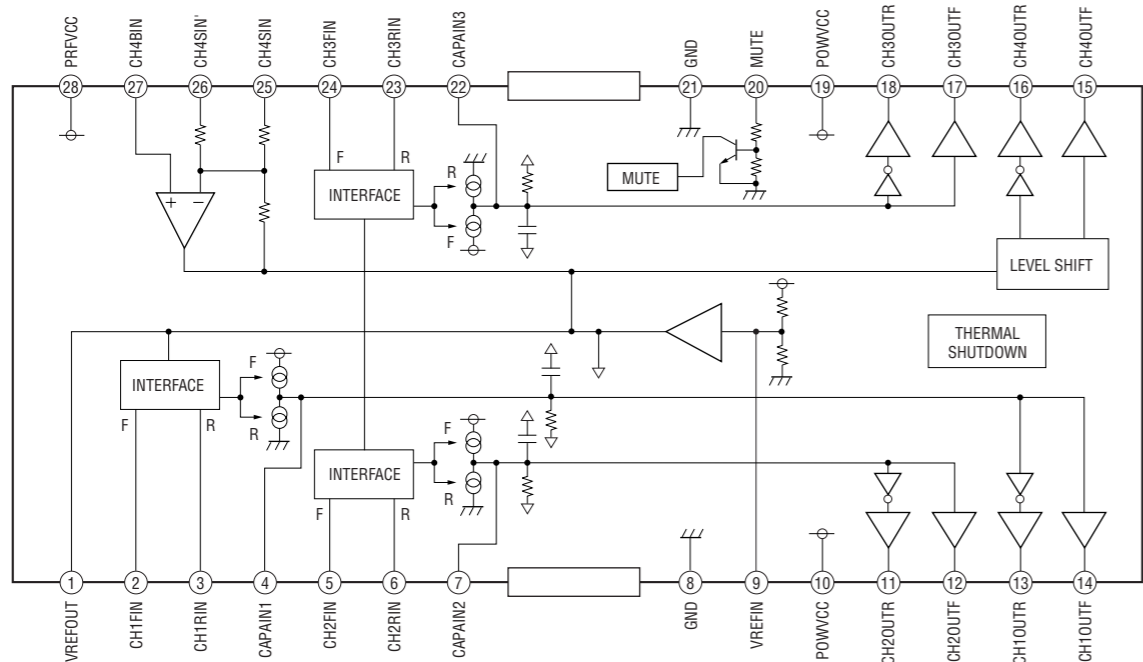
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

7-26. IC Block Diagrams
- BD Board -

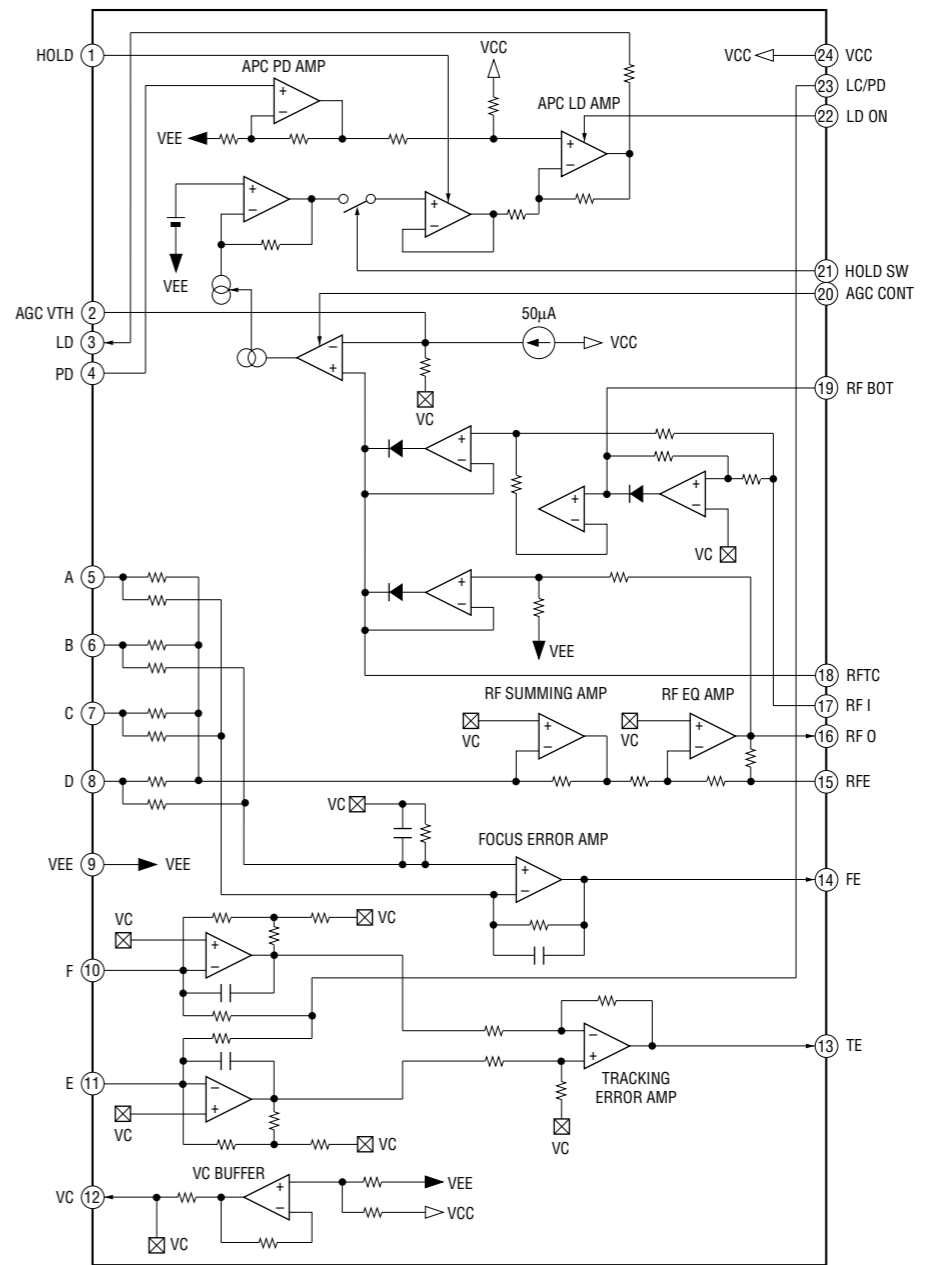
IC101 CXD2587Q



IC102 BA5974FP-E2

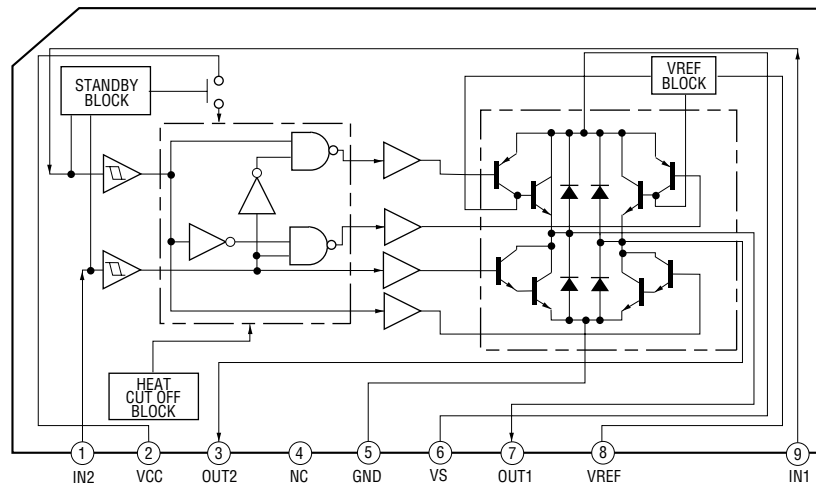


IC103 CXA2568M-T6



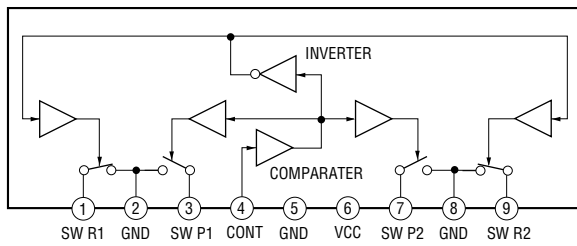
– CD MOTOR Board –

IC201 TA8409S



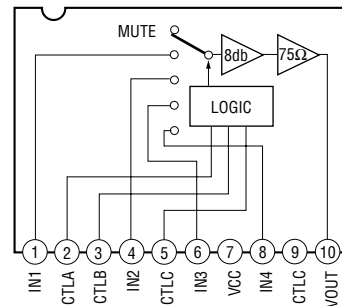
– AUDIO Board –

IC602 μ PC1330HA



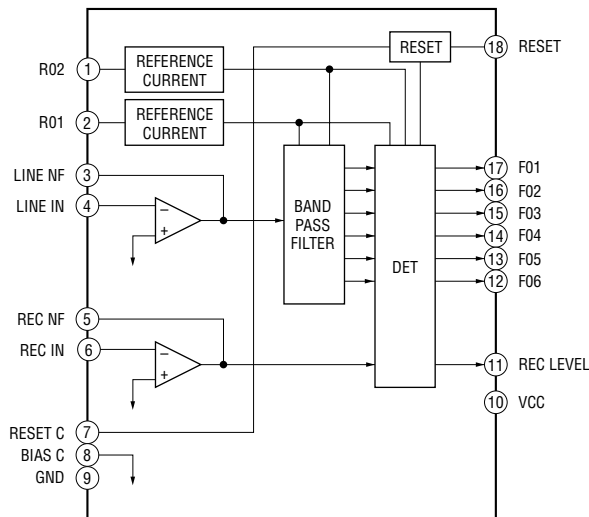
– MAIN Board –

IC191 BA7615N



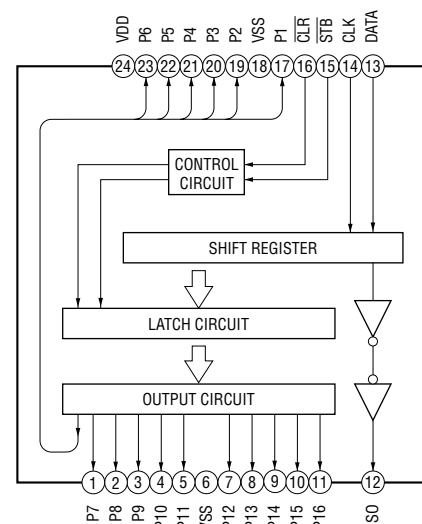
– PANEL FL Board –

IC602 BA3830F



– PANEL VR Board –

IC701 NJU3716L



7-27. IC Pin Function Description

• MAIN BOARD IC501 M30622MAA-A92FP (SYSTEM CONTROLLER (CD MECHANISM CONTROL))

Pin No.	Pin Name	I/O	Description
1	STK-POWER	O	Power amplifier on/off selection signal output "L": standby mode, "H": power amplifier on
2	POWER	O	Power on/off control signal output for the audio system (+5V) and deck, panel, audio system (+7V) and FM/AM tuner unit (+10V) "L": standby mode, "H": power on
3	F-RELAY	O	Relay drive signal output for the front speaker protect "H": relay on
4	REAR-RELAY	O	Relay drive signal output for the rear speaker protect "H": relay on Not used (open)
5	CD-POWER	O	Power on/off control signal output for the CD mechanism deck section "L": standby mode, "H": power on
6	LINE-MUTE	O	Line muting on/off control signal output "L": muting on, "H": muting off
7	DBFB-H/L	O	DBFB normal/high selection signal output to the M62493FP (IC101) "L": DBFB high, "H": DBFB low (normal)
8, 9	—	—	Connect to ground
10	XC-IN	I	Sub system clock input terminal (32.768 kHz)
11	XC-OUT	O	Sub system clock output terminal (32.768 kHz)
12	RESET	I	System reset signal input from the reset signal generator (IC801) "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
13	X-OUT	O	Main system clock output terminal (16 MHz)
14	VSS	—	Ground terminal
15	X-IN	I	Main system clock input terminal (16 MHz)
16	VDD	—	Power supply terminal (+5V)
17	NMI	I	Non-maskable interrupt input terminal Fixed at "H" in this set
18	WAKE UP	I	Wakeup control signal input from the fluorescent indicator tube driver (IC601) "L" active
19	SCOR	I	Subcode sync (S0+S1) detection signal input from the CXD2587Q (IC101)
20,21	—	—	Connect to ground
22	AC-CUT	I	AC off detection signal input from the reset signal generator (IC801) "L": AC cut checked
23	PL-CLK	O	Serial data transfer clock signal output to the pro-logic circuit Not used (open)
24	PL-DATA	O	Serial data output to the pro-logic circuit Not used (open)
25	PL-LAT	O	Serial data latch pulse output to the pro-logic circuit Not used (open)
26	TIMER LED	O	LED drive signal output terminal Not used (open)
27	PROTECT	I	Protect on/off detection signal input from the speaker protect circuit "L": protect on, "H": protect off
28	V MUTE	O	Video muting on/off control signal output to the BA7615N (IC191) "L": muting off, "H": muting on
29	IIC-CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the fluorescent indicator tube driver (IC601)
30	IIC-DATA	I/O	Communication data bus with the fluorescent indicator tube driver (IC601)
31	NO-USE	O	Not used (open)
32	SQ-DATA	I	Subcode Q data input from the CXD2587Q (IC101)
33	SQ-CLK	I	Subcode Q data reading clock signal output to the CXD2587Q (IC101)
34	SW-MODE	O	Music/movie mode selection signal output to the M62493FP (IC101) "L": movie mode, "H": music mode
35	CD-DATA	O	Serial data output to the CXD2587Q (IC101)
36	H/P IN	I	Connection detection signal input of the headphone jack (J803) "L": no connected, "H": headphone connected
37	CD-CLK	O	Serial data transfer clock signal output to the CXD2587Q (IC101)
38	493-LAT	O	Serial data latch pulse output to the M62493FP (IC101)

Pin No.	Pin Name	I/O	Description
39	CLOCK-OUT	O	Not used (open)
40, 41	NO-USE	O	Not used (open)
42	FL OFF	O	Filament on/off selection signal output for the fluorescent indicator tube (FL601) “L”: filament off, “H”: filament on Not used in this set
43	STBY RELAY	O	Main power on/off control signal output “L”: standby mode, “H”: power on
44	BASS FREQ	O	Sync bass frequency normal/high selection signal output terminal “L”: sync bass off (normal), “H”: sync bass high Not used (open)
45	FUNC SEL1	O	Function selection signal output to the BA7615N (IC191)
46	FUNC SEL0	O	Function selection signal output to the BA7615N (IC191)
47	493-DATA	O	Serial data output to the M62493FP (IC101)
48	493-CLK	O	Serial data transfer clock signal output to the M62493FP (IC101)
49	ST-MUTE	O	Tuner muting on/off control signal output to the FM/AM tuner unit “L”: muting off, “H”: muting on
50	STEREO	I	FM stereo detection signal input from the FM/AM tuner unit “L”: stereo
51	TUNED	I	Tuning detection signal input from the FM/AM tuner unit “L”: tuned
52	ST-CE	O	PLL chip enable signal output to the FM/AM tuner unit
53	ST-DOUT	O	PLL serial data output to the FM/AM tuner unit
54	ST-DIN	I	PLL serial data input from the FM/AM tuner unit
55	ST-CLK	O	PLL serial data transfer clock signal output to the FM/AM tuner unit
56	SENS	I	Internal status detection monitor input from the CXD2587Q (IC101)
57	HOLD	O	Laser power control signal output to the CXA2568M (IC103)
58	XLT	O	Serial data latch pulse output to the CXD2587Q (IC101)
59	XRST	O	Reset signal output to the CXD2587Q (IC101) and BA5974FP (IC102) “L”: reset
60	DISC-SENS	I	Disc status detection signal input terminal Not used (fixed at “L”)
61	T-SENS	I	Disc table status detection signal input from the disc table sensor (IC202)
62	VDD	—	Power supply terminal (+5V)
63	TBL-L	O	Motor drive signal output to the table motor driver (IC201) “L” active *1
64	VSS	—	Ground terminal
65	TBL-R	O	Motor drive signal output to the table motor driver (IC201) “L” active *1
66	LOAD-OUT	O	Loading motor drive signal output terminal Not used (open)
67	LOAD-IN	O	Loading motor drive signal output terminal Not used (open)
68	ENC3/UP-SW	I	Detection signal input from the up switch (S201)
69	ENC2/DISC-LED	O	LED drive signal output of the DISC No. indicator (D201) “H”: LED on
70	ENC1	I	Disc tray address detection signal input terminal Not used (fixed at “L”)
71	OUT-OPEN	I	Disc tray open/close detection signal input terminal Not used (fixed at “L”)
72	B-TRG	O	Deck-B side trigger plunger drive signal output “H”: plunger on
73	A-TRG	O	Deck-A side trigger plunger drive signal output “H”: plunger on
74	CAPM-CNT2	O	Capstan motor (M1) drive signal output “L”: reverse direction, “H”: forward direction
75	CAPM-CNT1	O	Capstan motor drive signal output terminal Not used (open)
76	CAP-M-H/L	O	High/normal speed selection signal output of the capstan motor (M1) “L”: normal speed, “H”: high speed
77	AMS-IN	I	Whether a music is present or not from HA12215F (IC301) is detected at automatic music sensor “L”: music is present, “H”: music is not present

*1 Table motor (M201) control

Terminal \ Mode	Stop	Counter-clockwise	Clockwise	Brake
TBL-L (pin 63)	“H”	“L”	“H”	“L”
TBL-R (pin 65)	“H”	“H”	“L”	“L”

Pin No.	Pin Name	I/O	Description
78	TC-MUTE	O	Line muting on/off selection signal output to the HA12215F (IC301) “L”: muting off, “H”: muting on
79	R/PB/PAS	O	Recording/playback/pass selection signal output to the HA12215F (IC301) “L”: recording mode, “H”: pass, “Hi-z”: playback mode
80	NR-ON/ $\overline{\text{OFF}}$	O	Dolby NR on/off selection signal output to the HA12215F (IC301) “L”: dolby off, “H”: dolby on
81	$\overline{\text{REC-MUTE}}$	O	Recording muting on/off selection signal output to the HA12215F (IC301) “L”: muting on, “H”: muting off
82	BIAS	O	Recording bias on/off selection signal output to the HA12215F (IC301) “L”: bias off, “H”: bias on
83	EQ-H/ $\overline{\text{N}}$	O	Normal/high speed selection signal output to the HA12215F (IC301) “L”: normal speed, “H”: high speed
84	PB- $\overline{\text{A}}$ /B	O	Deck-A/B selection signal output to the HA12215F (IC301) “L”: deck-A, “H”: deck-B
85	ALC	O	Automatic limiter control signal output to the HA12215F (IC301) “L”: limiter on
86	B-PLAY-SW	I	Detection signal input from the deck- B play detect switch (S1002) “H”: deck-B play
87	A-PLAY-SW	I	Detection signal input from the deck- A play detect switch (S1001) “H”: deck-A play
88	A-HALF	I	Detection signal input from the deck-A cassette detect switch (S1003) “L”: no cassette, “H”: cassette in
89	B-HALF	I	Detection signal input from the deck-B half detect switch (S1006)
90	B-SHUT	I	Shut off detection signal input from the deck-B side reel pulse detector (IC1002)
91	A-SHUT	I	Shut off detection signal input from the deck-A side reel pulse detector (IC1001)
92	SOFT-TEST	O	Output terminal for the software test (open)
93	$\overline{\text{HP MUTE}}$	O	Headphone muting control signal output “L”: muting on, “H”: muting off
94	KEY/CD-ADJ	I	Setting terminal for the CD adjustment mode Not used (fixed at “L”)
95	MODEL-IN	I	Model setting terminal
96	AVSS	—	Ground terminal (for A/D conversion)
97	SPEC-IN	I	Destination setting terminal
98	VREF	I	Reference voltage (+5V) input terminal
99	AVCC	—	Power supply terminal (+5V) (for A/D conversion)
100	TC-RELAY	O	Recording/playback selection signal output to the REC/PB switch (IC602) “L”: playback, “H”: recording

• PANEL FL BOARD IC601 TMP88CP76F-1B71 (FLUORESCENT INDICATOR TUBE DRIVER, KEY CONTROL)

Pin No.	Pin Name	I/O	Description
1	SIRCS	I	Remote control signal input from the remote control receiver (IC702)
2	KEY POWER SAVE/DEMO	I	Power save/demonstration switch (S609 POWER SAVE/DEMO (STANDBY)) input terminal “L” is input when key pressing Remote control signal input from the remote control receiver (IC702)
3	LED SCK	O	Serial data transfer clock signal output to the LED driver (IC701)
4	KEY POWER ON/OFF	I	Power on/off switch (S608 I/⏻) input terminal “L” is input when key pressing
5	LED DAT	O	Serial data output to the LED driver (IC701)
6	LED LATCH	O	Serial data latch pulse signal output to the LED driver (IC701)
7	LED SEL	O	LED selection signal output
8	WAKE UP	O	Wakeup control signal output to the system controller (IC501) “L” active
9	VOL A	I	Jog dial pulse input from the rotary encoder (S736 VOLUME) (A phase input)
10	VOL B	I	Jog dial pulse input from the rotary encoder (S736 VOLUME) (B phase input)
11	KEY 0	I	Key input terminal (A/D input) S601 to S607, S727 to S729 (DISPLAY, SPECTRUM ANALYZER, TIMER SELECT, SLEEP, ⌚/CLOCK SET, GAME, FUNCTION, ROCK, MOVIE, REGGAE) keys input
12	KEY 1	I	Key input terminal (A/D input) S621 to S627, S743 to S750 (▷, ◁, ■, ◀◀ AMS ▶▶ ◀◀/▶▶, DOLBY NR, DIRECTION, FLASH, EDIT, NON-STOP, DISC1/2/3/4/5) keys input
13	KEY 2	I	Key input terminal (A/D input) S615 to S619, S716 to S726 (◁, ▷, ■, ◀◀ AMS ▶▶ ◀◀/▶▶, GUITAR, JAZZ, SAMBA, DANCE, TANGO, SALSA, GAME, ◀, ▲, ▼, ▶) keys input
14	KEY 3	I	Key input terminal (A/D input) S701 to S710, S712 to S715, S741 (TUNER MEMORY, ENTER/TEXT, -, TUNER/BAND, +, STEREO/MONO, TUNING MODE, ENTER, P.FILE, FLAT, SURROUND, GROOVE, SUPER WOOFER, SUPER WOOFER MODE, LOOP) keys input
15	KEY 4	I	Key input terminal (A/D input) S611 to S614, S751 to S757 (⏮, ● REC, H SPEED DUB, CD SYNC, ▷⏮, ■, ◀◀, ▶▶, DISC SKIP, REPEAT, PLAY MODE) keys input
16	—	—	Not used (open)
17	BPF 0	I	Spectrum analyzer drive (super low frequency) signal input from the spectrum analyzer band-pass filter (IC602) (for 40 Hz)
18	BPF 1	I	Spectrum analyzer drive (low frequency) signal input from the spectrum analyzer band-pass filter (IC602) (for 100 Hz)
19	BPF 2	I	Spectrum analyzer drive (low and middle frequency) signal input from the spectrum analyzer band-pass filter (IC602) (for 400 Hz)
20	BPF 3	I	Spectrum analyzer drive (middle and high frequency) signal input from the spectrum analyzer band-pass filter (IC602) (for 2 kHz)
21	BPF 4	I	Spectrum analyzer drive (high frequency) signal input from the spectrum analyzer band-pass filter (IC602) (for 6 kHz)
22	ALL BAND	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (IC602) (for VACS, non-stop signal)
23	VSS	—	Ground terminal
24	VASS	—	Ground terminal (for A/D conversion)
25	VAREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
26	VDD	—	Power supply terminal (+5V)
27, 28	GR-16, GR-15	O	Grid drive signal output to the fluorescent indicator tube (FL601)
29 to 40	GR-14 to GR-3	O	Grid drive signal output to the fluorescent indicator tube (FL601)
41	VDD VFT	—	Power supply terminal (+5V)
42	GR-2	O	Grid drive signal output to the fluorescent indicator tube (FL601)

Pin No.	Pin Name	I/O	Description
43	GR-1	O	Grid drive signal output to the fluorescent indicator tube (FL601)
44 to 66	SEG-1 to SEG-23	O	Segment drive signal output to the fluorescent indicator tube (FL601)
67	LED STANDBY	O	LED drive signal output of the I/Ⓞ indicator (D601) “H”: LED on
68	VKK	—	Power supply terminal (–35V) (for fluorescent indicator tube drive)
69	VDD	—	Power supply terminal (+5V)
70	XIN	I	System clock input terminal (12.5 MHz)
71	VSS	—	Ground terminal
72	XOUT	O	System clock output terminal (12.5 MHz)
73	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator (IC801) “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
74	JOG A	I	Jog dial pulse input from the rotary encoder (S763 JOG DIAL) (A phase input)
75	JOG B	I	Jog dial pulse input from the rotary encoder (S763 JOG DIAL) (B phase input)
76	TEST	I	Connected to ground
77	—	—	Not used (open)
78	I2C DATA	I/O	Communication data bus with the system controller (IC501)
79	I2C CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the system controller (IC501)
80	D-SW	I	CD door open/close detection switch (S742) input terminal “L”: close, “H”: open

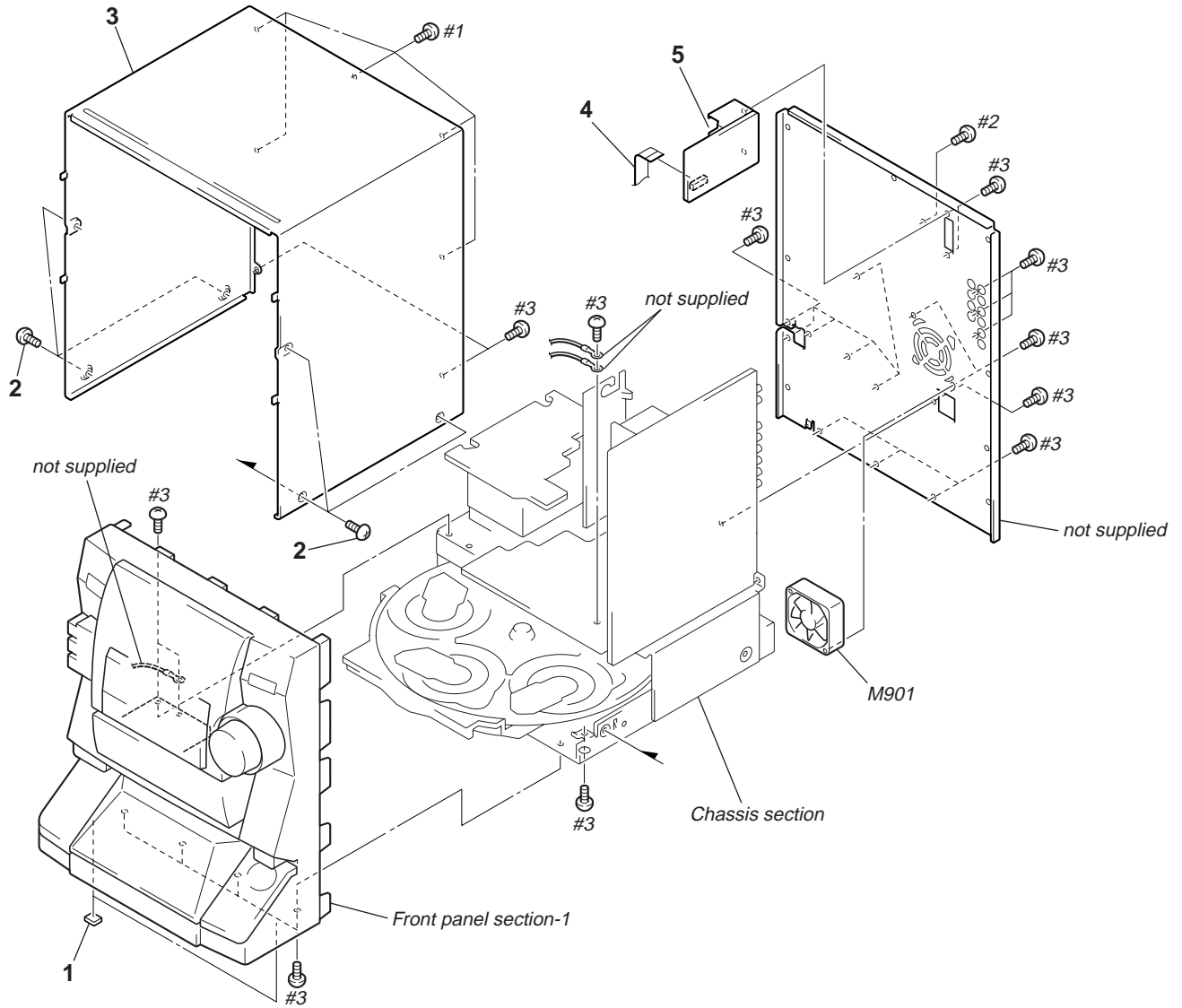
SECTION 8 EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

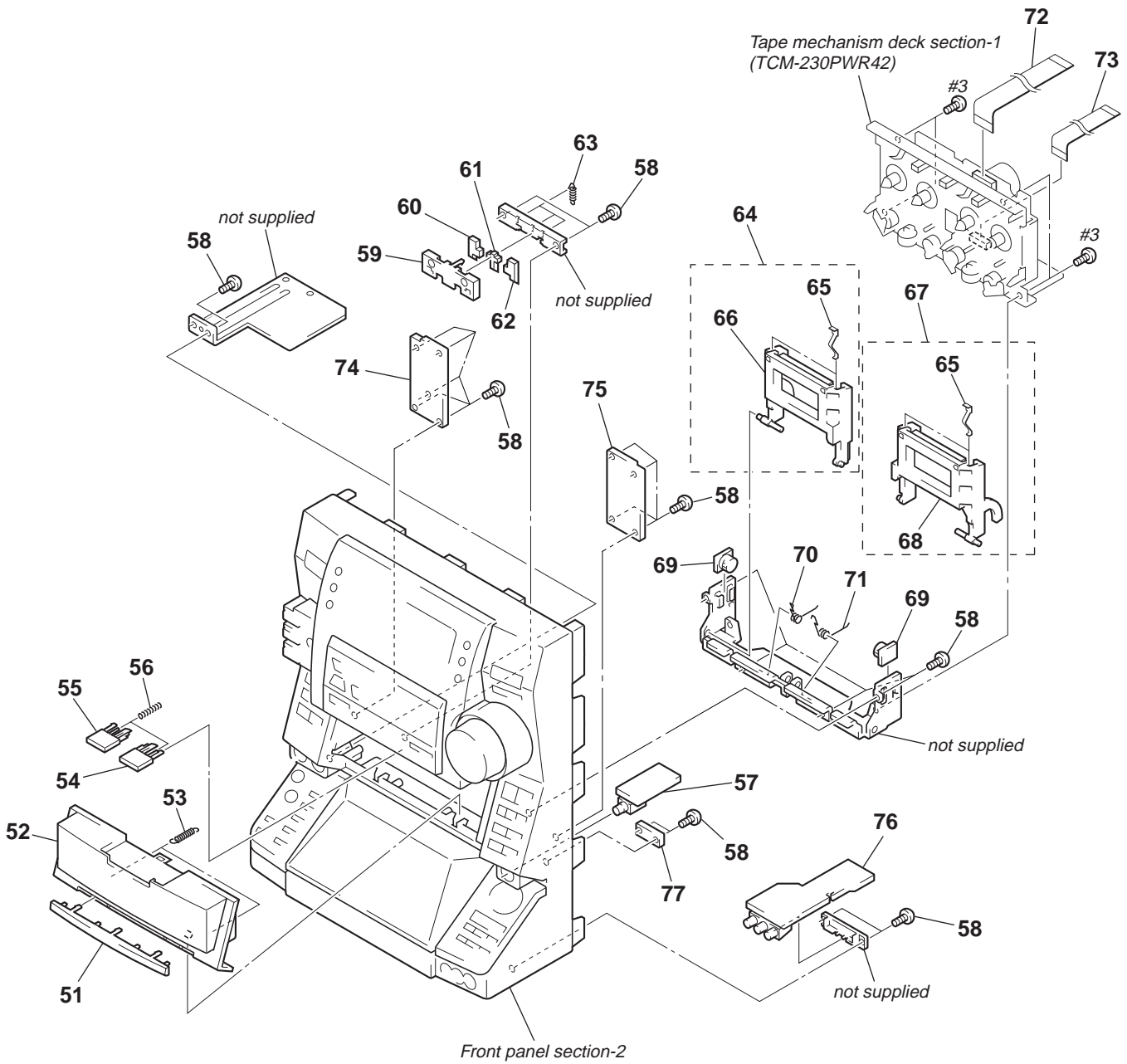
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

8-1. Case, Back Panel Section



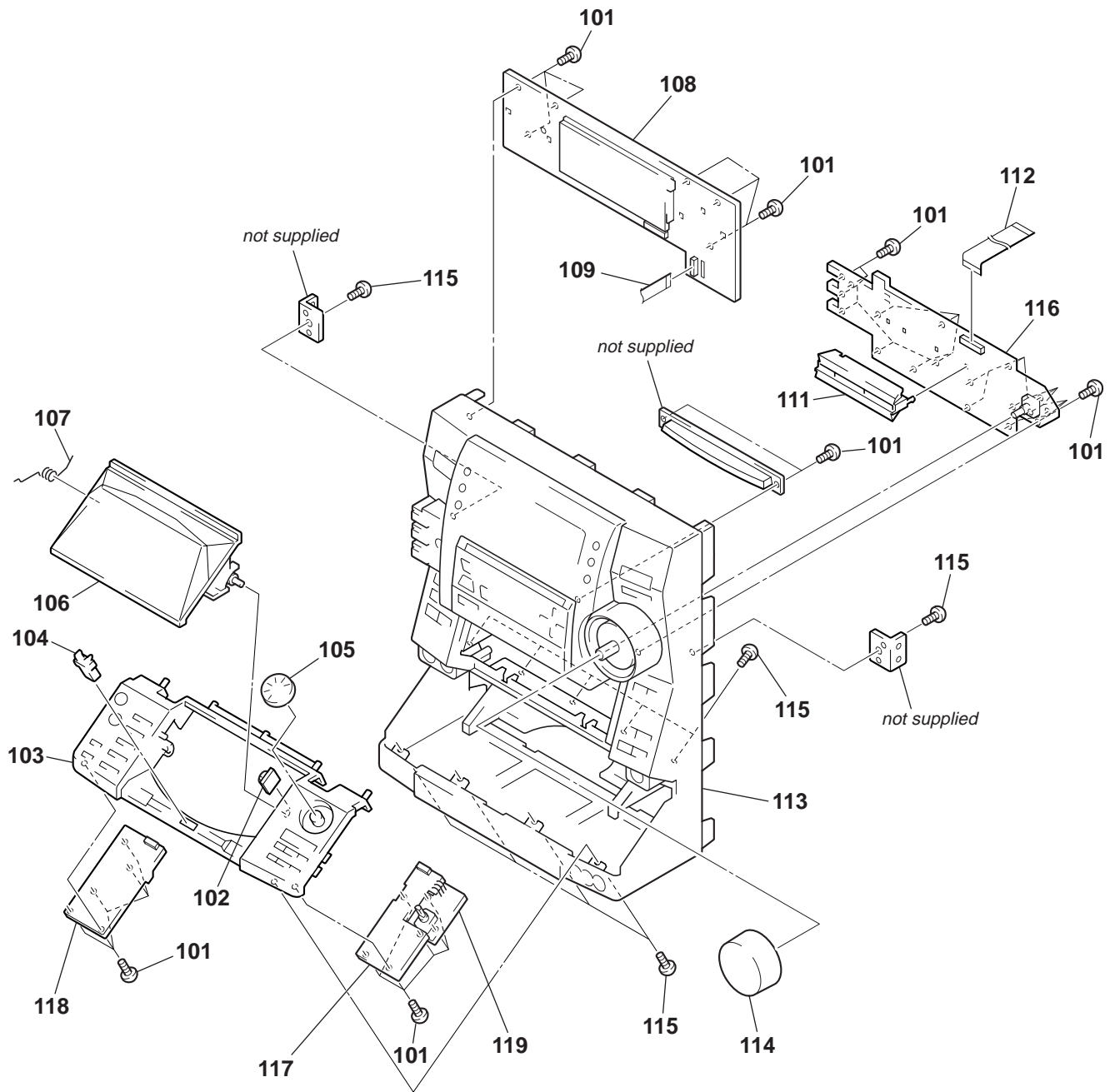
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-948-236-21	CUSHION (107)		M901	1-763-072-11	FAN, DC	
2	3-363-099-01	SCREW (CASE 3 TP2)		#1	7-685-871-01	SCREW +BVTT 3X6 (S)	
* 3	4-214-777-12	CASE		#2	7-685-872-09	SCREW +BVTT 3X8 (S)	
4	1-769-977-11	WIRE (FLAT TYPE) (13 CORE)		#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
5	1-693-482-11	TUNER (FM/AM)					

8-2. Front Panel Section-1



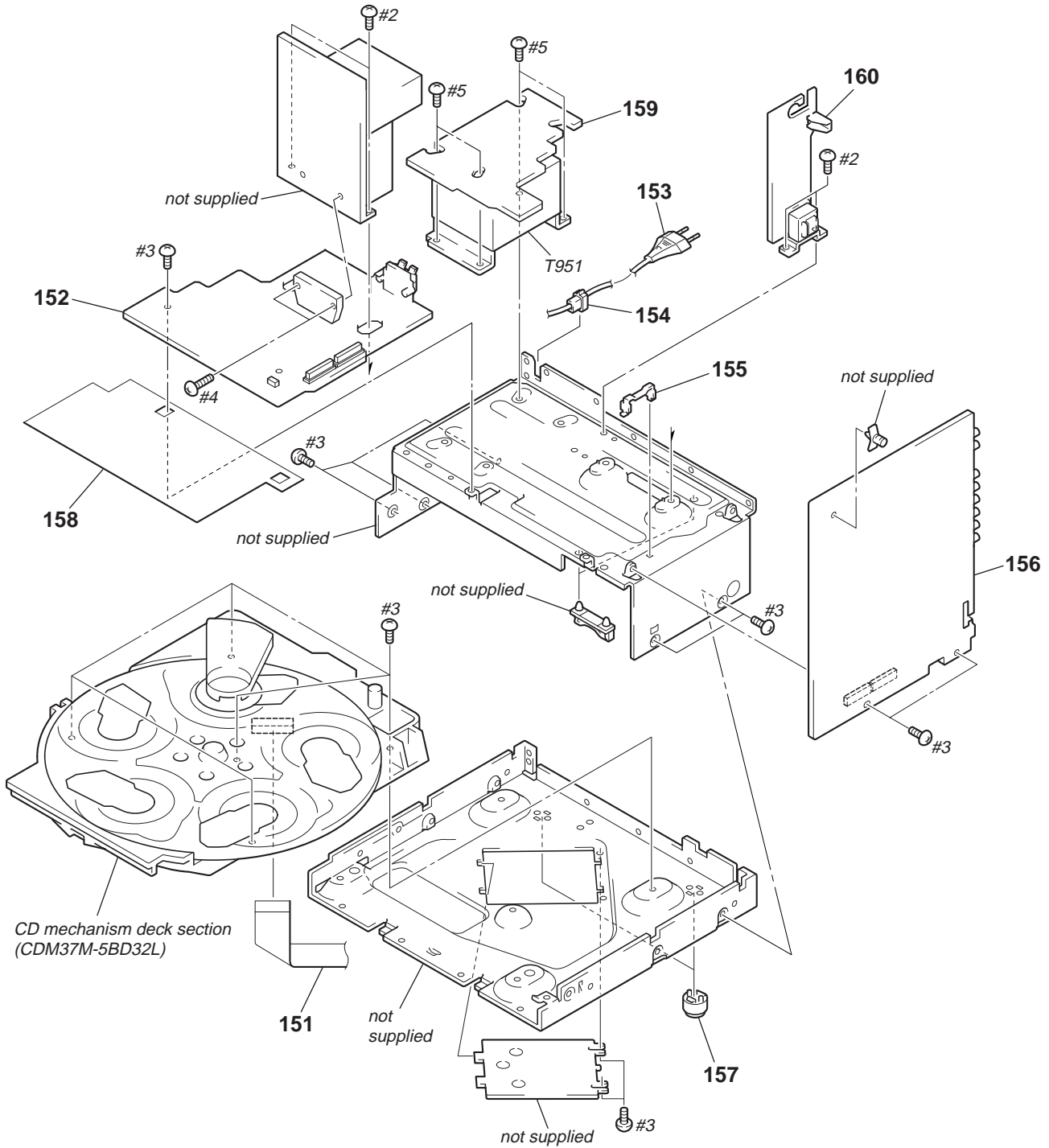
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-232-080-01	COVER (TC-LID)		65	4-959-229-11	DETENT, CASSETTE	
52	X-4953-376-2	LID (TC) ASSY		66	4-225-509-01	HOLDER (DECK-A)	
53	4-232-085-01	SPRING (TC LID), TENSION		67	X-4952-465-1	HOLDER (DECK-B) ASSY	
54	4-232-070-01	KNOB (TC-B)		68	4-225-510-01	HOLDER (DECK-B)	
55	4-232-069-01	KNOB (TC-A)		69	4-224-104-01	DAMPER	
56	4-226-537-01	SPRING (TC EJECT), COIL		70	4-235-715-01	SPRING (DECK-A), TORSION COIL	
57	1-680-181-11	HEADPHONE BOARD		71	4-235-716-01	SPRING (DECK-B), TORSION COIL	
58	4-951-620-01	SCREW (2.6X8), +BVTP		72	1-773-055-11	WIRE (FLAT TYPE) (17 CORE)	
59	4-226-883-01	COVER (EJECT)		73	1-773-032-11	WIRE (FLAT TYPE) (15 CORE)	
60	4-226-880-01	LEVER (EJECT-A)		74	1-680-171-11	TC (A) BOARD	
61	4-226-882-01	LEVER (EJECT-C)		75	1-680-172-11	TC (B) BOARD	
62	4-226-881-01	LEVER (EJECT-B)		76	1-680-180-11	FRONT INPUT BOARD	
63	4-226-889-01	SPRING (LEVER), TENSION COIL		77	1-680-183-11	BRACKET (PHONES) BOARD	
64	X-4952-464-1	HOLDER (DECK-A) ASSY		#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	

8-3. Front Panel Section-2



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	4-951-620-01	SCREW (2.6X8), +BVTP		111	4-232-078-01	HOLDER (LED)	
102	4-224-104-01	DAMPER		112	1-773-144-11	WIRE (FLAT TYPE) (21 CORE)	
103	X-4953-374-1	PANEL (CD) ASSY, SUB		113	X-4954-996-1	PANEL ASSY, FRONT	
104	4-040-472-01	LATCH, D.C.		114	4-232-066-01	KNOB (VOLUME)	
105	4-232-068-01	KNOB (CD)		115	4-951-620-11	SCREW (2.6X10), +BVTP	
106	X-4954-980-1	LID (CD) ASSY		116	A-4729-773-A	PANEL VR BOARD, COMPLETE	
107	4-232-086-01	SPRING (CD)		117	1-680-177-11	CD-L BOARD	
108	A-4729-770-A	PANEL FL BOARD, COMPLETE		118	1-680-178-11	CD-R (1) BOARD	
109	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)		119	1-681-622-11	CD-R (2) BOARD	

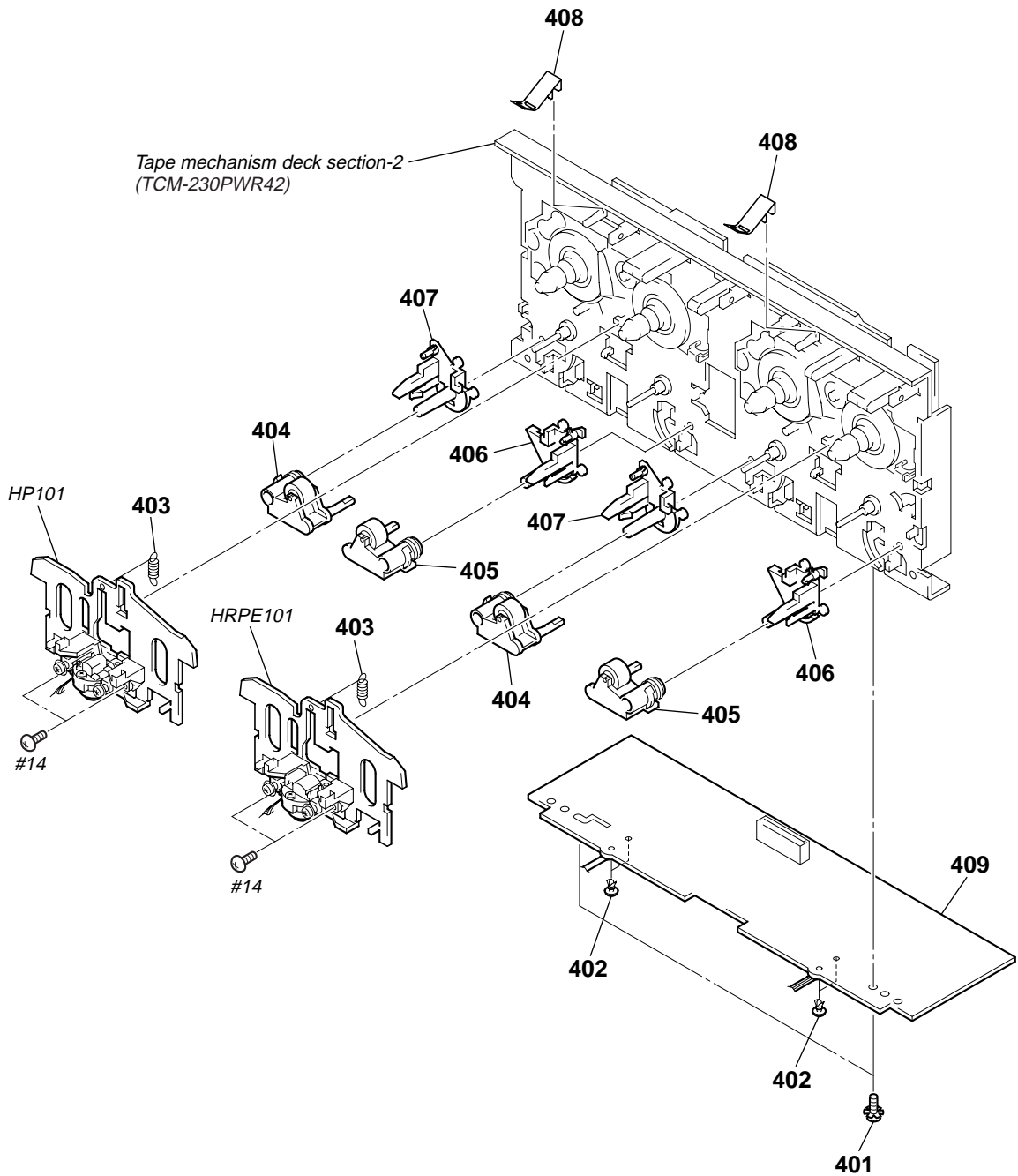
8-4. Chassis Section



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	1-790-287-11	WIRE (FLAT TYPE) (19 CORE)		159	1-680-174-11	TRANS BOARD	
152	A-4729-786-A	PA BOARD, COMPLETE		160	1-680-175-11	SUB TRANS BOARD	
△ 153	1-575-653-11	CORD, POWER		△ T951	1-435-797-11	TRANSFORMER, POWER	
154	4-966-266-01	BUSHING (S) (FBS002), CORD		#2	7-685-872-09	SCREW +BVTT 3X8 (S)	
* 155	4-988-533-12	HOLDER, PWB		#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
156	A-4729-791-A	MAIN BOARD, COMPLETE		#4	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
157	X-494-122-81	FOOT (F22125H-M)		#5	7-685-881-09	SCREW +BVTT 4X8 (S)	
158	4-235-701-01	DUST COVER					

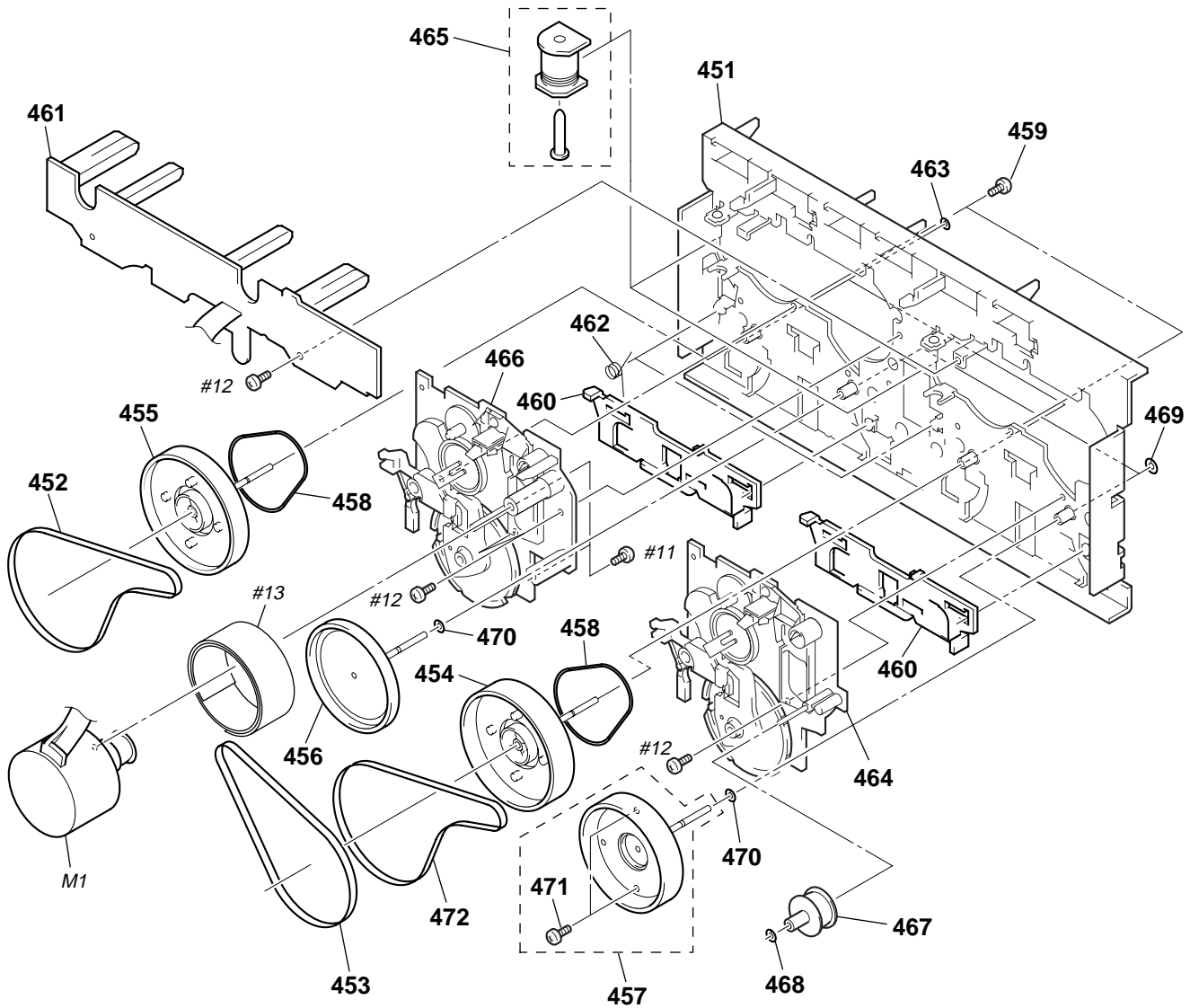
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

8-5. Tape Mechanism Deck Section-1 (TCM-230PWR42)



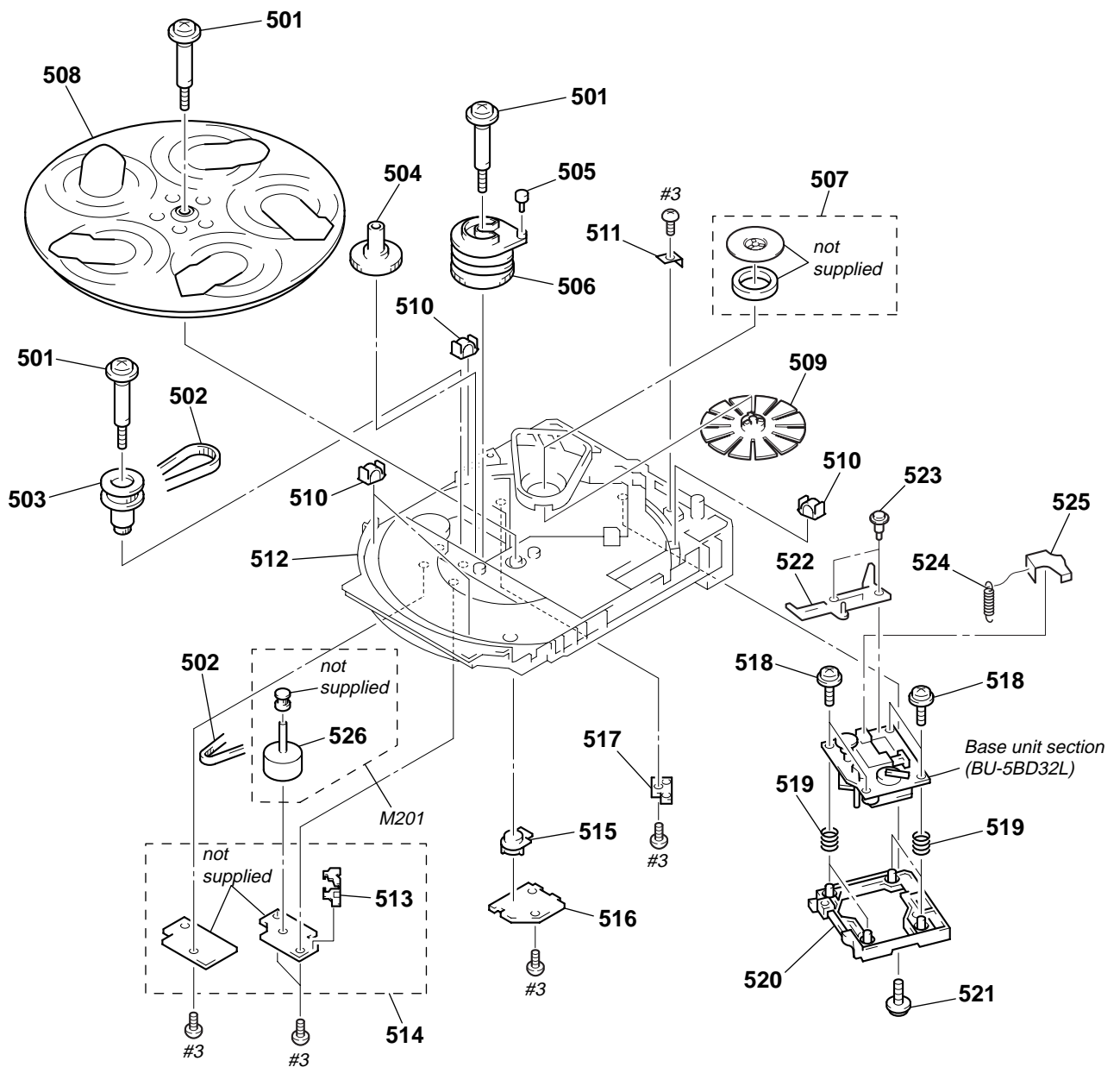
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
401	3-376-464-11	SCREW(+PTT 2.6X6),GROUND POINT		407	3-017-366-01	BASE (PINCH LEVER REV)	
402	3-911-116-42	RIVET, PUSH		408	3-016-567-02	SPRING (CASSETTE), LEAF	
403	3-016-574-01	SPRING (HEAD), TENSION		409	A-2007-849-A	AUDIO BOARD, COMPLETE	
404	X-3374-156-5	PINCH LEVER (REV) ASSY		HP101	A-2004-778-A	BASE (A) ASSY, HEAD	
405	X-3374-155-5	PINCH LEVER (FWD) ASSY		HRPE101	A-2004-779-A	BASE (B) ASSY, HEAD	
406	3-017-365-01	BASE (PINCH LEVER FWD)		#14	7-685-783-09	SCREW +PTT 2X6 (S)	

8-6. Tape Mechanism Deck Section-2 (TCM-230PWR42)



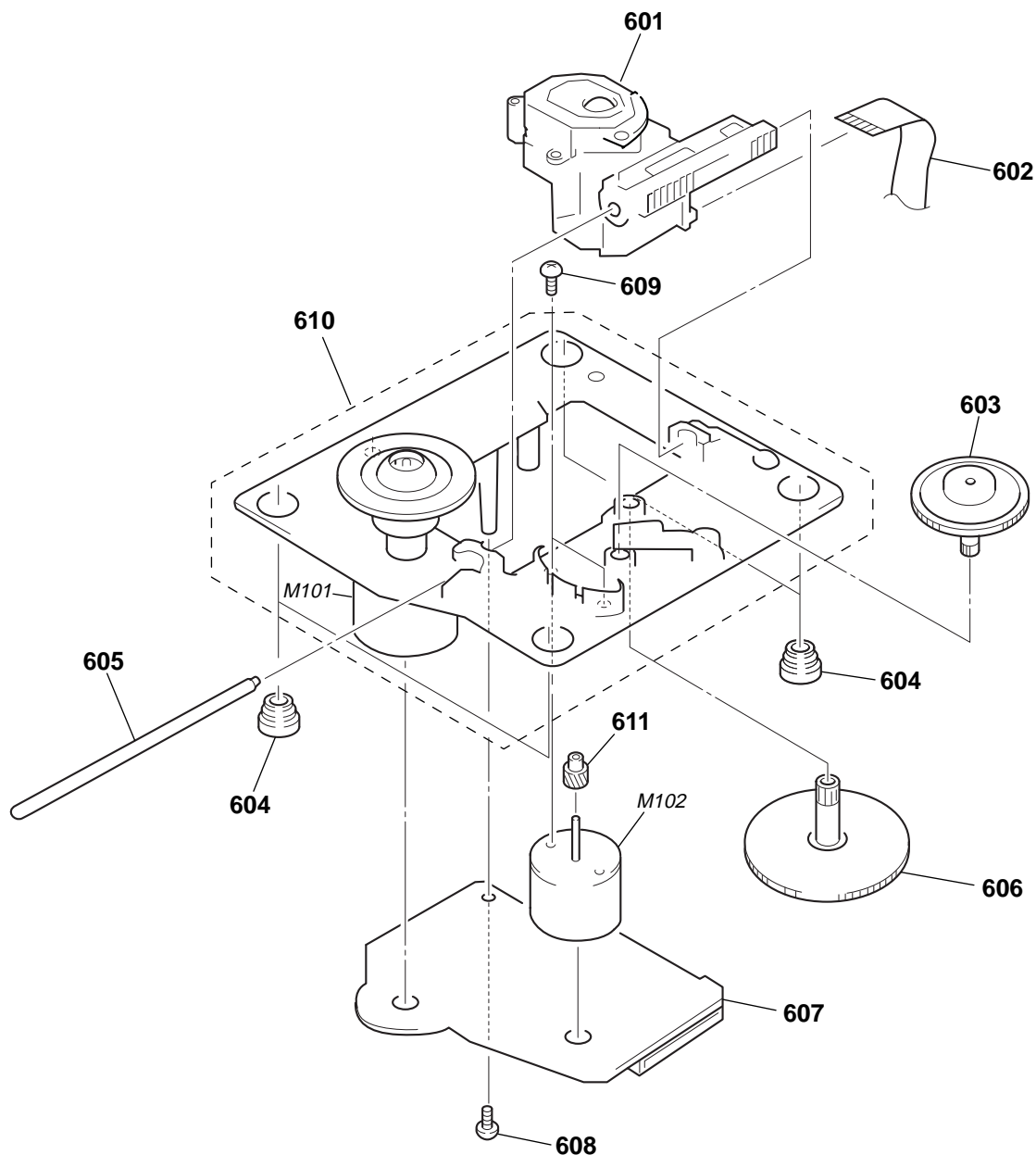
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
451	X-4952-881-1	CHASSIS ASSY, MAIN		464	A-2004-795-A	CHASSIS (A) ASSY, SUB	
452	3-041-946-01	BELT (CAPSTAN B)		465	1-454-887-21	SOLENOID, PLUNGER	
453	4-227-239-01	BELT (CAPSTAN C)		466	A-2004-796-A	CHASSIS (B) ASSY, SUB	
454	X-3378-247-1	FLYWHEEL (A-FWD) ASSY		467	3-040-580-02	PULLEY (TENSION)	
455	X-3378-249-1	FLYWHEEL (B-FWD) ASSY		468	3-017-407-01	WASHER (FR LEVER), STOPPER	
456	X-3378-250-1	FLYWHEEL (B-REV) ASSY		469	3-359-464-01	WASHER (CAPSTAN)	
457	X-3378-248-1	FLYWHEEL (A-REV) ASSY		470	3-359-464-11	WASHER (CAPSTAN)	
458	3-041-947-01	BELT (FR)		471	3-372-761-01	SCREW (M1.7), TAPPING	
459	3-703-454-21	SCREW (1.7X6), TAPPING		472	4-234-447-01	BELT (CAPSTAN A)	
460	3-016-566-01	SLIDER, REVERSE		M1	X-3378-241-1	MOTOR ASSY	
461	A-2007-852-A	SW BOARD, COMPLETE		#11	7-628-254-05	SCREW +PS 2.6X5	
462	4-228-450-01	SPRING(REVERSE SLIDER),TORSION		#12	7-685-781-09	SCREW +PTT 2X4 (S)	
463	3-019-208-01	WASHER, STOPPER		#13	7-623-921-01	RING, RETAINING, CAPSTAN	

8-7. CD Mechanism Deck Section (CDM37M-5BD32L)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501	4-987-976-01	SCREW, STEP		515	4-978-426-01	INDICATOR (NO.)	
502	4-944-490-01	BELT (TIMING)		* 516	1-659-059-13	LED BOARD	
503	A-4660-978-A	GEAR (PULLEY) ASSY		* 517	1-659-058-13	TABLE SENSOR BOARD	
504	4-978-421-01	GEAR (MID)		518	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
505	4-978-425-01	ROLLER (CAM)		519	4-958-593-01	SPRING (BU), COMPRESSION	
506	4-978-420-01	CAM (HOLDER)		* 520	4-978-419-01	HOLDER (BU-5)	
507	1-452-925-21	MAGNET ASSY		521	4-998-716-01	SCREW, BU FITTING	
508	4-978-417-04	TABLE, DISC		522	4-989-493-01	SLIDER (37)	
509	4-993-142-03	PULLEY (L), PRESS		523	4-989-494-01	SCREW (SLIDER), STEP	
510	X-4947-960-1	ROLLER ASSY		524	4-989-819-21	SPRING, TENSION	
* 511	4-978-583-01	BRACKET (BU)		525	4-989-491-01	COVER, LENS	
512	4-978-418-22	CHASSIS		526	1-763-790-11	MOTOR, DC	
* 513	4-980-385-01	HOLDER (SW)		#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
* 514	A-4673-765-A	CD MOTOR BOARD, COMPLETE		M201	A-4660-977-A	MOTOR ASSY (TABLE)	

8-8. Base Unit Section (BU-5BD32L)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
△601	8-820-114-02	OPTICAL PICK-UP BLOCK (KSS-213DH/Z-NP)		607	A-4724-486-A	BD BOARD (A), COMPLETE	
602	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)		608	4-951-620-01	SCREW (2.6X8), +BVTP	
603	4-917-567-21	GEAR (M)		609	3-713-786-51	SCREW +P 2X3	
604	4-951-940-01	INSULATOR (BU)		610	X-4917-523-3	BASE (OUTSERT) ASSY	
605	4-917-565-01	SHAFT, SLED		611	4-917-566-01	GEAR (S)	
606	4-917-564-01	GEAR (P), FLATNESS		M102	X-4917-504-1	MOTOR ASSY (SLED)	

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

SECTION 9
ELECTRICAL PARTS LIST

AUDIO

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
- 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

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

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

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
	A-2007-849-A	AUDIO BOARD, COMPLETE *****				< IC >	
		< CAPACITOR >		IC601	8-759-111-44	IC uPC4570C-1	
				IC602	8-759-143-54	IC uPC1330HA	
				IC611	8-759-111-44	IC uPC4570C-1	
						< COIL >	
C301	1-162-289-31	CERAMIC	390PF 10.00% 50V	L331	1-410-780-11	INDUCTOR	27MH
C302	1-126-968-11	ELECT	100uF 20.00% 6.3V	L431	1-410-780-11	INDUCTOR	27MH
C303	1-162-282-31	CERAMIC	100PF 10% 50V			< TRANSISTOR >	
C304	1-130-483-00	MYLAR	0.01uF 5% 50V	Q621	8-729-142-46	TRANSISTOR	2SC2001TP-LK
C305	1-128-551-11	ELECT	22uF 20.00% 25V	Q622	8-729-142-46	TRANSISTOR	2SC2001TP-LK
				Q623	8-729-801-93	TRANSISTOR	2SD1387-34-TP
C311	1-162-289-31	CERAMIC	390PF 10.00% 50V			< RESISTOR >	
C313	1-162-282-31	CERAMIC	100PF 10% 50V	R301	1-247-881-00	CARBON	120K 5% 1/4W
C314	1-130-487-00	MYLAR	0.022uF 5% 50V	R302	1-249-409-11	CARBON	220 5% 1/4W F
C315	1-126-233-11	ELECT	22uF 20% 50V	R303	1-249-433-11	CARBON	22K 5% 1/4W
C331	1-136-434-11	FILM	120PF 5.00% 630V	R304	1-247-889-00	CARBON	270K 5% 1/4W
				R305	1-247-858-11	CARBON	13K 5% 1/4W
C332	1-162-288-31	CERAMIC	330PF 10% 50V	R311	1-247-881-00	CARBON	120K 5% 1/4W
C333	1-162-209-31	CERAMIC	27PF 5.00% 50V	R312	1-247-807-31	CARBON	100 5% 1/4W
C401	1-162-289-31	CERAMIC	390PF 10.00% 50V	R314	1-247-882-11	CARBON	130K 5% 1/4W
C402	1-126-968-11	ELECT	100uF 20.00% 6.3V	R315	1-247-850-11	CARBON	6.2K 5% 1/4W
C403	1-162-282-31	CERAMIC	100PF 10% 50V	R331	1-249-430-11	CARBON	12K 5% 1/4W
				R401	1-247-881-00	CARBON	120K 5% 1/4W
C404	1-130-483-00	MYLAR	0.01uF 5% 50V	R402	1-249-409-11	CARBON	220 5% 1/4W F
C405	1-128-551-11	ELECT	22uF 20.00% 25V	R403	1-249-433-11	CARBON	22K 5% 1/4W
C411	1-162-289-31	CERAMIC	390PF 10.00% 50V	R404	1-247-889-00	CARBON	270K 5% 1/4W
C413	1-162-282-31	CERAMIC	100PF 10% 50V	R405	1-247-858-11	CARBON	13K 5% 1/4W
C414	1-130-487-00	MYLAR	0.022uF 5% 50V	R411	1-247-881-00	CARBON	120K 5% 1/4W
				R412	1-247-807-31	CARBON	100 5% 1/4W
C415	1-126-233-11	ELECT	22uF 20% 50V	R414	1-247-882-11	CARBON	130K 5% 1/4W
C431	1-136-434-11	FILM	120PF 5.00% 630V	R415	1-247-850-11	CARBON	6.2K 5% 1/4W
C432	1-162-288-31	CERAMIC	330PF 10% 50V	R431	1-249-430-11	CARBON	12K 5% 1/4W
C433	1-162-209-31	CERAMIC	27PF 5.00% 50V	R481	1-249-416-11	CARBON	820 5% 1/4W F
C601	1-104-396-11	ELECT	10uF 20.00% 16V	R482	1-249-419-11	CARBON	1.5K 5% 1/4W F
				R491	1-249-416-11	CARBON	820 5% 1/4W F
C602	1-104-396-11	ELECT	10uF 20.00% 16V	R492	1-249-419-11	CARBON	1.5K 5% 1/4W F
C611	1-104-396-11	ELECT	10uF 20.00% 16V	R601	1-249-409-11	CARBON	220 5% 1/4W F
C612	1-104-396-11	ELECT	10uF 20.00% 16V			< CONNECTOR >	
C621	1-137-150-11	FILM	0.01uF 5.00% 100V	R602	1-249-409-11	CARBON	220 5% 1/4W F
C622	1-126-961-11	ELECT	2.2uF 20.00% 50V	R608	1-249-409-11	CARBON	220 5% 1/4W F
				R609	1-249-433-11	CARBON	22K 5% 1/4W
C623	1-136-155-00	FILM	0.015uF 5% 50V				
C624	1-130-481-00	MYLAR	0.0068uF 5% 50V				
C625	1-130-481-00	MYLAR	0.0068uF 5% 50V				
C627	1-126-960-11	ELECT	1uF 20.00% 50V				
C628	1-136-153-00	FILM	0.01uF 5% 50V				
C642	1-126-947-11	ELECT	47uF 20.00% 16V				
CN601	1-568-834-11	SOCKET, CONNECTOR 15P					

HCD-XG55

AUDIO **BD**

Ref. No.	Part No.	Description	Remarks
R611	1-249-409-11	CARBON 220	5% 1/4W F
R612	1-249-409-11	CARBON 220	5% 1/4W F
△ R621	1-212-851-00	FUSIBLE 5.6	5% 1/4W
△ R622	1-212-851-00	FUSIBLE 5.6	5% 1/4W
R623	1-249-432-11	CARBON 18K	5% 1/4W
R624	1-249-432-11	CARBON 18K	5% 1/4W
R625	1-249-429-11	CARBON 10K	5% 1/4W
< VARIABLE RESISTOR >			
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K	
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K	
RV341	1-241-768-11	RES, ADJ, CARBON 220K	
RV441	1-241-768-11	RES, ADJ, CARBON 220K	
< TRANSFORMER >			
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION	

A-4724-486-A	BD BOARD, COMPLETE *****		
< CAPACITOR >			
C101	1-163-005-91	CERAMIC CHIP 470PF	10.00% 50V
C102	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C103	1-163-005-91	CERAMIC CHIP 470PF	10.00% 50V
C104	1-163-009-91	CERAMIC CHIP 0.001uF	10.00% 50V
C108	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C109	1-163-011-11	CERAMIC CHIP 0.0015uF	10% 50V
C110	1-164-182-11	CERAMIC CHIP 0.0033uF	10% 50V
C111	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C112	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C113	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C114	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C115	1-126-607-11	ELECT CHIP 47uF	20% 4V
C116	1-126-607-11	ELECT CHIP 47uF	20% 4V
C117	1-126-209-11	ELECT CHIP 100uF	20.00% 4V
C118	1-163-009-91	CERAMIC CHIP 0.001uF	10.00% 50V
C119	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C121	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C122	1-126-206-11	ELECT CHIP 100uF	20% 6.3V
C123	1-163-021-91	CERAMIC CHIP 0.01uF	10.00% 50V
C124	1-107-823-11	CERAMIC CHIP 0.47uF	10.00% 16V
C125	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C126	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C127	1-128-065-11	ELECT CHIP 68uF	20.00% 10V
C128	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C129	1-163-031-91	CERAMIC CHIP 0.01uF	50V
C130	1-164-346-11	CERAMIC CHIP 1uF	16V
C131	1-124-779-00	ELECT CHIP 10uF	20% 16V
C133	1-125-838-11	CERAMIC CHIP 2.2uF	10% 6.3V
C140	1-164-346-11	CERAMIC CHIP 1uF	16V
C141	1-164-346-11	CERAMIC CHIP 1uF	16V
C143	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C151	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C153	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C154	1-110-501-11	CERAMIC CHIP 0.33uF	10.00% 16V
C156	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C157	1-163-009-91	CERAMIC CHIP 0.001uF	10.00% 50V

Ref. No.	Part No.	Description	Remarks
C159	1-163-019-00	CERAMIC CHIP 0.0068uF	10% 50V
C161	1-126-206-11	ELECT CHIP 100uF	20% 6.3V
C162	1-126-205-11	ELECT CHIP 47uF	20% 6.3V
C163	1-126-206-11	ELECT CHIP 100uF	20% 6.3V
C165	1-163-038-91	CERAMIC CHIP 0.1uF	25V
C167	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C168	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C171	1-163-009-91	CERAMIC CHIP 0.001uF	10.00% 50V
C172	1-163-123-00	CERAMIC CHIP 180PF	5% 50V
C181	1-163-009-91	CERAMIC CHIP 0.001uF	10.00% 50V
C182	1-163-123-00	CERAMIC CHIP 180PF	5% 50V
< CONNECTOR >			
CN101	1-778-874-11	CONNECTOR,FFC(LIF(NON-ZIF))19P	
CN102	1-777-937-11	CONNECTOR, FFC/FPC 16P	
< FERRITE BEAD >			
FB101	1-500-445-21	FERRITE	0UH
FB103	1-500-445-21	FERRITE	0UH
< IC >			
IC101	8-752-386-85	IC CXD2587Q	
IC102	8-759-549-28	IC BA5974FP-E2	
IC103	8-752-085-51	IC CXA2568M-T6	
< TRANSISTOR >			
Q101	8-729-010-08	TRANSISTOR	MSB710-RT1
< RESISTOR >			
R101	1-216-077-91	RES-CHIP 15K	5% 1/10W
R102	1-216-097-11	RES-CHIP 100K	5% 1/10W
R103	1-216-077-91	RES-CHIP 15K	5% 1/10W
R104	1-216-085-91	RES-CHIP 33K	5% 1/10W
R105	1-216-073-91	RES-CHIP 10K	5% 1/10W
R106	1-216-049-11	RES-CHIP 1K	5% 1/10W
R107	1-216-073-91	RES-CHIP 10K	5% 1/10W
R108	1-216-061-91	RES-CHIP 3.3K	5% 1/10W
R109	1-216-121-11	RES-CHIP 1M	5% 1/10W
R110	1-216-025-11	RES-CHIP 100	5% 1/10W
R111	1-216-121-11	RES-CHIP 1M	5% 1/10W
R113	1-216-121-11	RES-CHIP 1M	5% 1/10W
R114	1-216-073-91	RES-CHIP 10K	5% 1/10W
R116	1-216-001-00	METAL CHIP 10	5% 1/10W
R117	1-216-049-11	RES-CHIP 1K	5% 1/10W
R119	1-216-041-00	METAL CHIP 470	5% 1/10W
R123	1-216-073-91	RES-CHIP 10K	5% 1/10W
R124	1-216-097-11	RES-CHIP 100K	5% 1/10W
R131	1-216-033-00	METAL CHIP 220	5% 1/10W
R143	1-216-103-00	METAL CHIP 180K	5% 1/10W
R144	1-216-103-00	METAL CHIP 180K	5% 1/10W
R147	1-216-069-00	METAL CHIP 6.8K	5% 1/10W
R148	1-216-001-00	METAL CHIP 10	5% 1/10W
R149	1-216-001-00	METAL CHIP 10	5% 1/10W
R158	1-216-111-00	METAL CHIP 390K	5% 1/10W
R159	1-216-101-00	METAL CHIP 150K	5% 1/10W

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

BD **CD MOTOR** **CD-L** **CD-R (1)**

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R161	1-216-308-00	METAL CHIP	4.7 5% 1/10W			< DIODE >	
R162	1-216-101-00	METAL CHIP	150K 5% 1/10W				
R171	1-216-680-11	METAL CHIP	16K 0.5% 1/10W	D741	8-719-058-04	DIODE SEL5223S-TP15 (NON-STOP)	
R172	1-216-073-91	RES-CHIP	10K 5% 1/10W			< RESISTOR >	
R173	1-216-077-91	RES-CHIP	15K 5% 1/10W				
R181	1-216-680-11	METAL CHIP	16K 0.5% 1/10W	R741	1-249-407-11	CARBON 150 5% 1/4W F	
R182	1-216-073-91	RES-CHIP	10K 5% 1/10W	R742	1-249-438-11	CARBON 56K 5% 1/4W	
R183	1-216-077-91	RES-CHIP	15K 5% 1/10W	R743	1-249-420-11	CARBON 1.8K 5% 1/4W F	
		< NETWORK RESISTOR >		R744	1-249-422-11	CARBON 2.7K 5% 1/4W F	
				R745	1-247-843-11	CARBON 3.3K 5% 1/4W	
RN101	1-233-576-11	RES, CHIP NETWORK 100		R746	1-249-425-11	CARBON 4.7K 5% 1/4W F	
RN102	1-233-576-11	RES, CHIP NETWORK 100		R747	1-249-427-11	CARBON 6.8K 5% 1/4W F	
		< SWITCH >		R748	1-249-429-11	CARBON 10K 5% 1/4W	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)		R749	1-249-431-11	CARBON 15K 5% 1/4W	
		< VIBRATOR >		R750	1-249-434-11	CARBON 27K 5% 1/4W	
X101	1-767-408-21	VIBRATOR, CRYSTAL (16.9344 MHz)				< SWITCH >	

*	A-4673-765-A	CD MOTOR BOARD, COMPLETE		S741	1-762-875-21	SWITCH, KEYBOARD (LOOP)	
		*****		S742	1-762-587-11	SWITCH, PUSH (1 KEY)	(LID (CD) OPEN/CLOSE)
*	4-980-385-01	HOLDER (SW)		S743	1-762-875-21	SWITCH, KEYBOARD (FLASH)	
		< CAPACITOR >		S744	1-762-875-21	SWITCH, KEYBOARD (EDIT)	
C201	1-126-964-11	ELECT	10uF 20.00% 50V	S745	1-762-875-21	SWITCH, KEYBOARD (NON-STOP)	
C202	1-164-159-21	CERAMIC	0.1uF 50V				
C203	1-126-964-11	ELECT	10uF 20.00% 50V	S746	1-762-875-21	SWITCH, KEYBOARD (DISC 1)	
		< CONNECTOR >		S747	1-762-875-21	SWITCH, KEYBOARD (DISC 2)	
* CN201	1-568-947-11	PIN, CONNECTOR 9P		S748	1-762-875-21	SWITCH, KEYBOARD (DISC 3)	
		< IC >		S749	1-762-875-21	SWITCH, KEYBOARD (DISC 4)	
IC201	8-759-365-94	IC TA8409S		S750	1-762-875-21	SWITCH, KEYBOARD (DISC 5)	
		< COIL >		*****			
L201	1-408-117-00	INDUCTOR	10uH	1-680-178-11	CD-R (1) BOARD	*****	
		< RESISTOR >				< CONNECTOR >	
R205	1-249-427-11	CARBON	6.8K 5% 1/4W F				
R206	1-249-425-11	CARBON	4.7K 5% 1/4W F	CN703	1-785-333-11	PIN, CONNECTOR (LIGHT ANGLE)7P	
		< SWITCH >				< LED >	
S201	1-762-587-11	SWITCH, PUSH (1 KEY)		D700	8-719-056-13	LED SML79423C-TP15 (▷◻◻)	

	1-680-177-11	CD-L BOARD				< RESISTOR >	
		*****		R751	1-249-415-11	CARBON 680 5% 1/4W F	
		< CAPACITOR >		R752	1-249-417-11	CARBON 1K 5% 1/4W F	
C741	1-162-306-11	CERAMIC	0.01uF 30.00% 16V	R753	1-249-418-11	CARBON 1.2K 5% 1/4W F	
		< CONNECTOR >		R754	1-249-420-11	CARBON 1.8K 5% 1/4W F	
CN704	1-785-332-11	PIN, CONNECTOR (LIGHT ANGLE)6P		R755	1-249-422-11	CARBON 2.7K 5% 1/4W F	
				R756	1-247-843-11	CARBON 3.3K 5% 1/4W	
				R757	1-249-425-11	CARBON 4.7K 5% 1/4W F	
				R758	1-249-403-11	CARBON 68 5% 1/4W F	
				R759	1-249-403-11	CARBON 68 5% 1/4W F	
						< SWITCH >	
				S751	1-762-875-21	SWITCH, KEYBOARD (▷◻◻)	
				S752	1-762-875-21	SWITCH, KEYBOARD (◼)	
				S753	1-762-875-21	SWITCH, KEYBOARD (◀◀)	
				S754	1-762-875-21	SWITCH, KEYBOARD (▶▶)	
				S755	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP)	
				S756	1-762-875-21	SWITCH, KEYBOARD (REPEAT)	
				S757	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE)	
				S763	1-473-393-11	ENCODER, ROTARY	

HCD-XG55

CD-R (2) **FRONT INPUT** **HEADPHONE** **LEAF SW** **LED** **MAIN**

Ref. No.	Part No.	Description	Remarks
	1-681-622-11	CD-R (2) BOARD *****	
		< CAPACITOR >	
C751	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	
C752	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	

	1-680-180-11	FRONT INPUT BOARD *****	
C801	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C802	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C803	1-126-960-11	ELECT 1uF 20.00% 50V	
C811	1-162-282-31	CERAMIC 100PF 10% 50V	
C812	1-164-159-21	CERAMIC 0.1uF 50V	
		< FILTER >	
FL803	1-424-228-11	FILTER, NOISE	
		< JACK >	
J804	1-815-310-11	JACK 3P (GAME INPUT AUDIO/VIDEO)	
		< RESISTOR >	
R801	1-249-417-11	CARBON 1K 5% 1/4W F	
R802	1-249-437-11	CARBON 47K 5% 1/4W	
R803	1-249-417-11	CARBON 1K 5% 1/4W F	
R804	1-249-437-11	CARBON 47K 5% 1/4W	
R805	1-247-804-11	CARBON 75 5% 1/4W	

	1-680-181-11	HEADPHONE BOARD *****	
		< CAPACITOR >	
C891	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C892	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C893	1-164-159-21	CERAMIC 0.1uF 50V	
		< JACK >	
J803	1-770-226-11	JACK (LARGE TYPE) (PHONES)	
		< RESISTOR >	
R810	1-247-807-31	CARBON 100 5% 1/4W	

	A-2007-852-A	LEAF SW BOARD, COMPLETE *****	
		< CAPACITOR >	
C1001	1-107-716-11	ELECT 33uF 20.00% 10V	
		< CONNECTOR >	
CN1001	1-568-860-21	SOCKET, CONNECTOR 17P	
		< DIODE >	
D1001	8-719-991-33	DIODE 1SS133T-77	
D1002	8-719-991-33	DIODE 1SS133T-77	

Ref. No.	Part No.	Description	Remarks
		< IC >	
IC1001	8-749-014-38	PHOTO INTERRUPTER SG-264	
IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264	
		< TRANSISTOR >	
Q1001	8-729-029-56	TRANSISTOR DTA144ESA-TP	
		< RESISTOR >	
R907	1-249-441-11	CARBON 100K 5% 1/4W	
R1001	1-249-409-11	CARBON 220 5% 1/4W F	
R1002	1-249-409-11	CARBON 220 5% 1/4W F	
R1003	1-249-414-11	CARBON 560 5% 1/4W F	
R1004	1-247-834-11	CARBON 1.3K 5% 1/4W	
R1005	1-247-818-91	CARBON 300 5% 1/4W	
R1006	1-247-864-11	CARBON 24K 5% 1/4W	
R1007	1-247-852-11	CARBON 7.5K 5% 1/4W	
R1008	1-249-417-11	CARBON 1K 5% 1/4W F	
		< VARIABLE RESISTOR >	
RV1001	1-241-785-11	RES, ADJ, CARBON 10K	
RV1002	1-241-785-11	RES, ADJ, CARBON 10K	
		< SWITCH >	
S1001	1-570-953-11	SWITCH, PUSH (1 KEY) (DECK A PLAY)	
S1002	1-570-953-11	SWITCH, PUSH (1 KEY) (DECK B PLAY)	
S1003	1-771-333-11	SWITCH, LEAF (DECK A HALF)	
S1004	1-771-205-11	SWITCH, LEAF (DECK A 120/70)	
S1005	1-771-205-11	SWITCH, LEAF (DECK A REC)	
S1006	1-771-333-11	SWITCH, LEAF (DECK B HALF)	
S1008	1-771-205-11	SWITCH, LEAF (DECK B 120/70)	
S1009	1-771-205-11	SWITCH, LEAF (DECK B REC)	

	1-659-059-13	LED BOARD *****	
		< LED >	
D201	8-719-032-98	LED SEL5820A-TP15 (DISC No.)	
		< TRANSISTOR >	
Q201	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
		< RESISTOR >	
R201	1-249-433-11	CARBON 22K 5% 1/4W	
R202	1-249-411-11	CARBON 330 5% 1/4W	
R203	1-249-437-11	CARBON 47K 5% 1/4W	

	A-4729-791-A	MAIN BOARD, COMPLETE *****	
		< CAPACITOR >	
	4-875-327-31	HEAT SINK	
	4-948-236-21	CUSHION (107)	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
		< CAPACITOR >	
C111	1-137-195-11	FILM 0.56uF 5.00% 50V	
C112	1-130-488-00	MYLAR 0.027uF 5% 50V	

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C113	1-136-167-00	FILM	0.15uF	5.00%	50V	C334	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C114	1-130-480-00	MYLAR	0.0056uF	5%	50V	C351	1-126-960-11	ELECT	1uF	20.00%	50V
C115	1-130-489-00	MYLAR	0.033uF	5%	50V	C352	1-130-479-00	MYLAR	0.0047uF	5%	50V
C116	1-130-473-00	MYLAR	0.0015uF	5%	50V	C353	1-136-165-00	FILM	0.1uF	5.00%	50V
C117	1-130-483-00	MYLAR	0.01uF	5%	50V	C354	1-136-165-00	FILM	0.1uF	5.00%	50V
C118	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	C355	1-126-964-11	ELECT	10uF	20.00%	50V
C119	1-130-477-00	MYLAR	0.0033uF	5%	50V	C356	1-126-960-11	ELECT	1uF	20.00%	50V
C120	1-130-477-00	MYLAR	0.0033uF	5%	50V	C357	1-126-959-11	ELECT	0.47uF	20.00%	50V
C121	1-126-964-11	ELECT	10uF	20.00%	50V	C358	1-126-964-11	ELECT	10uF	20.00%	50V
C122	1-163-006-11	CERAMIC CHIP	560PF	10.00%	50V	C359	1-137-194-81	FILM	0.47uF	5.00%	50V
C123	1-136-169-00	FILM	0.22uF	5.00%	50V	C401	1-126-961-11	ELECT	2.2uF	20.00%	50V
C124	1-136-169-00	FILM	0.22uF	5.00%	50V	C411	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C125	1-126-964-11	ELECT	10uF	20.00%	50V	C412	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C131	1-126-947-11	ELECT	47uF	20.00%	16V	C413	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C132	1-126-947-11	ELECT	47uF	20.00%	16V	C414	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C135	1-126-964-11	ELECT	10uF	20.00%	50V	C416	1-126-935-11	ELECT	470uF	20.00%	10V
C161	1-137-195-11	FILM	0.56uF	5.00%	50V	C431	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C162	1-130-488-00	MYLAR	0.027uF	5%	50V	C451	1-126-961-11	ELECT	2.2uF	20.00%	50V
C163	1-136-167-00	FILM	0.15uF	5.00%	50V	C510	1-162-918-11	CERAMIC CHIP	18PF	5.00%	50V
C164	1-130-480-00	MYLAR	0.0056uF	5%	50V	C511	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C165	1-130-489-00	MYLAR	0.033uF	5%	50V	C516	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C166	1-130-473-00	MYLAR	0.0015uF	5%	50V	C562	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C167	1-130-483-00	MYLAR	0.01uF	5%	50V	C564	1-126-947-11	ELECT	47uF	20.00%	16V
C168	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	C598	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C169	1-130-477-00	MYLAR	0.0033uF	5%	50V	C599	1-126-947-11	ELECT	47uF	20.00%	16V
C170	1-130-477-00	MYLAR	0.0033uF	5%	50V	C601	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C171	1-126-964-11	ELECT	10uF	20.00%	50V	C602	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C172	1-163-006-11	CERAMIC CHIP	560PF	10.00%	50V	C603	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C173	1-136-169-00	FILM	0.22uF	5.00%	50V	C604	1-126-961-11	ELECT	2.2uF	20.00%	50V
C174	1-136-169-00	FILM	0.22uF	5.00%	50V	C605	1-130-479-00	MYLAR	0.0047uF	5%	50V
C175	1-126-964-11	ELECT	10uF	20.00%	50V	C606	1-130-473-00	MYLAR	0.0015uF	5%	50V
C176	1-130-493-00	MYLAR	0.068uF	5%	50V	C607	1-136-159-00	FILM	0.033uF	5.00%	50V
C177	1-130-483-00	MYLAR	0.01uF	5%	50V	C609	1-126-933-11	ELECT	100uF	20.00%	16V
C181	1-163-038-91	CERAMIC CHIP	0.1uF		25V	C651	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C182	1-163-038-91	CERAMIC CHIP	0.1uF		25V	C652	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C183	1-163-038-91	CERAMIC CHIP	0.1uF		25V	C653	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C191	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C654	1-126-961-11	ELECT	2.2uF	20.00%	50V
C192	1-163-038-91	CERAMIC CHIP	0.1uF		25V	C655	1-130-479-00	MYLAR	0.0047uF	5%	50V
C193	1-126-964-11	ELECT	10uF	20.00%	50V	C656	1-130-473-00	MYLAR	0.0015uF	5%	50V
C301	1-126-960-11	ELECT	1uF	20.00%	50V	C657	1-136-159-00	FILM	0.033uF	5.00%	50V
C302	1-130-479-00	MYLAR	0.0047uF	5%	50V	C659	1-126-933-11	ELECT	100uF	20.00%	16V
C303	1-136-165-00	FILM	0.1uF	5.00%	50V	C699	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C304	1-136-165-00	FILM	0.1uF	5.00%	50V	C721	1-126-960-11	ELECT	1uF	20.00%	50V
C305	1-126-964-11	ELECT	10uF	20.00%	50V	C722	1-126-926-11	ELECT	1000uF	20.00%	10V
C306	1-126-960-11	ELECT	1uF	20.00%	50V	C724	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C307	1-126-959-11	ELECT	0.47uF	20.00%	50V	C772	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C308	1-126-964-11	ELECT	10uF	20.00%	50V	C774	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C309	1-137-194-81	FILM	0.47uF	5.00%	50V	C777	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C310	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C803	1-126-964-11	ELECT	10uF	20.00%	50V
C311	1-126-964-11	ELECT	10uF	20.00%	50V	C804	1-136-165-00	FILM	0.1uF	5.00%	50V
C312	1-126-959-11	ELECT	0.47uF	20.00%	50V	C805	1-136-165-00	FILM	0.1uF	5.00%	50V
C313	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C806	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C314	1-126-964-11	ELECT	10uF	20.00%	50V	C808	1-109-953-11	ELECT	2.2uF	20.00%	50V
C315	1-126-963-11	ELECT	4.7uF	20.00%	50V	C902	1-126-937-11	ELECT	4700uF	20.00%	16V
C316	1-126-947-11	ELECT	47uF	20.00%	16V	C903	1-126-964-11	ELECT	10uF	20.00%	50V
C317	1-126-947-11	ELECT	47uF	20.00%	16V	C904	1-126-964-11	ELECT	10uF	20.00%	50V
C320	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C905	1-126-935-11	ELECT	470uF	20.00%	10V
C333	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C911	1-126-964-11	ELECT	10uF	20.00%	50V

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MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C912	1-126-916-11	ELECT	1000uF 20.00% 6.3V			< IC >	
C913	1-126-947-11	ELECT	47uF 20.00% 16V				
C914	1-126-916-11	ELECT	1000uF 20.00% 6.3V	IC101	8-759-571-54	IC M62493FP	
C932	1-126-964-11	ELECT	10uF 20.00% 50V	IC181	8-759-009-06	IC MC14052BFEL	
C933	1-126-933-11	ELECT	100uF 20.00% 16V	IC191	8-759-571-53	IC BA7615N	
C934	1-126-964-11	ELECT	10uF 20.00% 50V	IC301	8-759-495-26	IC HA12215F	
C935	1-126-767-11	ELECT	1000uF 20.00% 16V	IC501	6-800-352-01	IC M30622MAA-A96FP	
C936	1-126-964-11	ELECT	10uF 20.00% 50V	IC601	8-759-100-96	IC NJM4558M-TE2	
C937	1-126-933-11	ELECT	100uF 20.00% 16V	IC801	8-759-635-63	IC M51943BSL-TP	
C938	1-126-933-11	ELECT	100uF 20.00% 16V	IC901	8-759-071-48	IC TA7807S	
C952	1-126-943-11	ELECT	2200uF 20.00% 25V	IC911	8-759-039-69	IC uPC7805AHF	
C953	1-126-964-11	ELECT	10uF 20.00% 50V	IC931	8-759-231-57	IC TA7810S	
C954	1-126-964-11	ELECT	10uF 20.00% 50V	IC932	8-759-088-08	IC uPC7812AHF	
C955	1-126-935-11	ELECT	470uF 20.00% 10V	IC933	8-759-071-48	IC TA7807S	
C961	1-163-038-91	CERAMIC CHIP	0.1uF 25V	IC951	8-759-071-47	IC TA79007S	
		< CONNECTOR >				< JACK >	
CN303	1-784-776-11	CONNECTOR, FFC 15P		J701	1-794-148-21	JACK, PIN 8P	
CN304	1-784-778-11	CONNECTOR, FFC 17P		J702	1-518-043-11	JACK, PIN 2P	
CN411	1-784-780-11	CONNECTOR, FFC 19P				< JUMPER RESISTOR >	
CN412	1-785-321-11	PIN, CONNECTOR (STRAIGHT) 9P		JR1	1-216-295-91	SHORT CHIP	0
CN431	1-784-774-11	CONNECTOR, FFC 13P		JR2	1-216-296-11	SHORT CHIP	0
CN441	1-563-616-11	CONNECTOR, FLEXIBLE 13P		JR3	1-216-296-11	SHORT CHIP	0
CN702	1-691-767-11	PLUG (MICRO CONNECTOR) 5P		JR4	1-216-295-91	SHORT CHIP	0
CN901	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P		JR5	1-216-295-91	SHORT CHIP	0
CN902	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P		JR6	1-216-296-11	SHORT CHIP	0
CN903	1-564-506-11	PLUG, CONNECTOR 3P		JR7	1-216-296-11	SHORT CHIP	0
		< DIODE >		JR8	1-216-296-11	SHORT CHIP	0
D191	8-719-988-61	DIODE 1SS355TE-17		JR9	1-216-295-91	SHORT CHIP	0
D192	8-719-988-61	DIODE 1SS355TE-17		JR10	1-216-296-11	SHORT CHIP	0
D193	8-719-988-61	DIODE 1SS355TE-17		JR11	1-216-296-11	SHORT CHIP	0
D194	8-719-988-61	DIODE 1SS355TE-17		JR181	1-216-295-91	SHORT CHIP	0
D334	1-216-295-91	SHORT CHIP	0	JR182	1-216-295-91	SHORT CHIP	0
D501	8-719-988-61	DIODE 1SS355TE-17		JR191	1-216-295-91	SHORT CHIP	0
D534	8-719-988-61	DIODE 1SS355TE-17		JR192	1-216-295-91	SHORT CHIP	0
D801	8-719-988-61	DIODE 1SS355TE-17		JR594	1-216-295-91	SHORT CHIP	0
D802	8-719-988-61	DIODE 1SS355TE-17		JR703	1-216-295-91	SHORT CHIP	0
D803	8-719-988-61	DIODE 1SS355TE-17		JR781	1-216-296-11	SHORT CHIP	0
D804	8-719-988-61	DIODE 1SS355TE-17		JR901	1-216-295-91	SHORT CHIP	0
D805	8-719-988-61	DIODE 1SS355TE-17		JR910	1-216-296-11	SHORT CHIP	0
D806	8-719-988-61	DIODE 1SS355TE-17				< TRANSISTOR >	
D807	8-719-988-61	DIODE 1SS355TE-17		Q111	8-729-620-05	TRANSISTOR	2SC2603TP-EF
D808	8-719-210-33	DIODE EC10DS2-TE12L5		Q112	8-729-620-05	TRANSISTOR	2SC2603TP-EF
D911	8-719-988-61	DIODE 1SS355TE-17		Q113	8-729-141-30	TRANSISTOR	2SC3623ATP-LK
D912	8-719-210-33	DIODE EC10DS2-TE12L5		Q115	8-729-029-86	TRANSISTOR	DTC124ESA-TP
D913	8-719-210-33	DIODE EC10DS2-TE12L5		Q161	8-729-620-05	TRANSISTOR	2SC2603TP-EF
D931	8-719-210-33	DIODE EC10DS2-TE12L5		Q162	8-729-620-05	TRANSISTOR	2SC2603TP-EF
D951	8-719-988-61	DIODE 1SS355TE-17		Q163	8-729-141-30	TRANSISTOR	2SC3623ATP-LK
		< FERRITE BEAD >		Q165	8-729-029-86	TRANSISTOR	DTC124ESA-TP
FB412	1-414-772-11	FERRITE	0UH	Q331	8-729-140-04	TRANSISTOR	2SB1116-TP-LK
FB415	1-414-772-11	FERRITE	0UH	Q332	8-729-029-86	TRANSISTOR	DTC124ESA-TP
		< FILTER >		Q333	8-729-140-04	TRANSISTOR	2SB1116-TP-LK
FL501	1-233-289-21	FILTER, EMI (SMD)		Q334	8-729-029-86	TRANSISTOR	DTC124ESA-TP
FL502	1-233-289-21	FILTER, EMI (SMD)		Q335	8-729-029-86	TRANSISTOR	DTC124ESA-TP
FL503	1-233-289-21	FILTER, EMI (SMD)		Q336	8-729-116-59	TRANSISTOR	2SB1068TP
				Q339	8-729-029-86	TRANSISTOR	DTC124ESA-TP

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
Q801	8-729-620-05	TRANSISTOR	2SC2603TP-EF	R179	1-216-121-11	RES-CHIP	1M 5% 1/10W
Q802	8-729-029-40	TRANSISTOR	DTA124ESA-TP	R301	1-216-085-91	RES-CHIP	33K 5% 1/10W
Q803	8-729-029-40	TRANSISTOR	DTA124ESA-TP				
Q804	8-729-029-40	TRANSISTOR	DTA124ESA-TP	R302	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
Q901	8-729-049-79	TRANSISTOR	RT1P137S-TP	R303	1-216-025-11	RES-CHIP	100 5% 1/10W
				R304	1-216-025-11	RES-CHIP	100 5% 1/10W
Q902	8-729-029-40	TRANSISTOR	DTA124ESA-TP	R305	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
Q903	8-729-040-19	TRANSISTOR	RT1N137L-TP	R306	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
Q904	8-729-029-86	TRANSISTOR	DTC124ESA-TP				
Q905	8-729-119-76	TRANSISTOR	2SA1115TP-EF	R307	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
Q906	8-729-620-05	TRANSISTOR	2SC2603TP-EF	R308	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
				R309	1-216-081-00	METAL CHIP	22K 5% 1/10W
Q911	8-729-049-79	TRANSISTOR	RT1P137S-TP	R311	1-216-121-11	RES-CHIP	1M 5% 1/10W
Q912	8-729-029-86	TRANSISTOR	DTC124ESA-TP	R312	1-218-757-11	RES-CHIP	160K 5% 1/10W
Q913	8-729-040-20	TRANSISTOR	RT1P137L-TP				
Q914	8-729-029-86	TRANSISTOR	DTC124ESA-TP	R313	1-216-097-11	RES-CHIP	100K 5% 1/10W
Q931	8-729-049-79	TRANSISTOR	RT1P137S-TP	R315	1-216-073-91	RES-CHIP	10K 5% 1/10W
				R316	1-216-079-00	METAL CHIP	18K 5% 1/10W
Q932	8-729-029-86	TRANSISTOR	DTC124ESA-TP	R317	1-216-073-91	RES-CHIP	10K 5% 1/10W
Q961	8-729-620-05	TRANSISTOR	2SC2603TP-EF	R318	1-216-073-91	RES-CHIP	10K 5% 1/10W
Q962	8-729-140-04	TRANSISTOR	2SB1116-TP-LK				
		< RESISTOR >		R319	1-216-111-00	METAL CHIP	390K 5% 1/10W
R111	1-216-073-91	RES-CHIP	10K 5% 1/10W	R321	1-216-059-00	METAL CHIP	2.7K 5% 1/10W
R112	1-216-121-11	RES-CHIP	1M 5% 1/10W	R322	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
R113	1-216-103-00	METAL CHIP	180K 5% 1/10W	R332	1-216-045-00	METAL CHIP	680 5% 1/10W
R114	1-216-043-91	RES-CHIP	560 5% 1/10W	R333	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R115	1-216-089-91	RES-CHIP	47K 5% 1/10W				
R116	1-216-091-00	METAL CHIP	56K 5% 1/10W	R334	1-216-045-00	METAL CHIP	680 5% 1/10W
R117	1-216-073-91	RES-CHIP	10K 5% 1/10W	R335	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R118	1-216-089-91	RES-CHIP	47K 5% 1/10W	R340	1-216-089-91	RES-CHIP	47K 5% 1/10W
R119	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R343	1-216-061-91	RES-CHIP	3.3K 5% 1/10W
R120	1-216-097-11	RES-CHIP	100K 5% 1/10W	R344	1-216-061-91	RES-CHIP	3.3K 5% 1/10W
R121	1-216-073-91	RES-CHIP	10K 5% 1/10W				
R122	1-216-295-91	SHORT CHIP	0	R345	1-216-061-91	RES-CHIP	3.3K 5% 1/10W
R123	1-216-107-00	METAL CHIP	270K 5% 1/10W	R351	1-216-085-91	RES-CHIP	33K 5% 1/10W
R124	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R352	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R125	1-216-049-11	RES-CHIP	1K 5% 1/10W	R353	1-216-025-11	RES-CHIP	100 5% 1/10W
				R354	1-216-025-11	RES-CHIP	100 5% 1/10W
R126	1-216-057-00	METAL CHIP	2.2K 5% 1/10W				
R127	1-216-111-00	METAL CHIP	390K 5% 1/10W	R355	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R129	1-216-121-11	RES-CHIP	1M 5% 1/10W	R356	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
R131	1-216-025-11	RES-CHIP	100 5% 1/10W	R357	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
R132	1-216-025-11	RES-CHIP	100 5% 1/10W	R358	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
				R359	1-216-085-91	RES-CHIP	33K 5% 1/10W
R133	1-216-025-11	RES-CHIP	100 5% 1/10W				
R161	1-216-073-91	RES-CHIP	10K 5% 1/10W	R371	1-216-089-91	RES-CHIP	47K 5% 1/10W
R162	1-216-121-11	RES-CHIP	1M 5% 1/10W	R372	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R163	1-216-103-00	METAL CHIP	180K 5% 1/10W	R373	1-216-049-11	RES-CHIP	1K 5% 1/10W
R164	1-216-043-91	RES-CHIP	560 5% 1/10W	R374	1-216-089-91	RES-CHIP	47K 5% 1/10W
				R375	1-216-094-00	RES-CHIP	75K 5% 1/10W
R165	1-216-089-91	RES-CHIP	47K 5% 1/10W				
R166	1-216-091-00	METAL CHIP	56K 5% 1/10W	R376	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R167	1-216-073-91	RES-CHIP	10K 5% 1/10W	R377	1-216-089-91	RES-CHIP	47K 5% 1/10W
R168	1-216-089-91	RES-CHIP	47K 5% 1/10W	R378	1-216-094-00	RES-CHIP	75K 5% 1/10W
R169	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R401	1-216-025-11	RES-CHIP	100 5% 1/10W
				R402	1-216-061-91	RES-CHIP	3.3K 5% 1/10W
R170	1-216-097-11	RES-CHIP	100K 5% 1/10W				
R171	1-216-073-91	RES-CHIP	10K 5% 1/10W	R413	1-216-295-91	SHORT CHIP	0
R172	1-216-295-91	SHORT CHIP	0	R414	1-216-295-91	SHORT CHIP	0
R173	1-216-850-11	METAL CHIP	270K 5% 1/16W	R451	1-216-025-11	RES-CHIP	100 5% 1/10W
R174	1-216-073-91	RES-CHIP	10K 5% 1/10W	R452	1-216-061-91	RES-CHIP	3.3K 5% 1/10W
				R501	1-216-025-11	RES-CHIP	100 5% 1/10W
R175	1-216-097-11	RES-CHIP	100K 5% 1/10W				
R177	1-216-111-00	METAL CHIP	390K 5% 1/10W	R503	1-216-025-11	RES-CHIP	100 5% 1/10W
R178	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R505	1-216-025-11	RES-CHIP	100 5% 1/10W
				R511	1-216-109-00	METAL CHIP	330K 5% 1/10W
				R513	1-216-295-91	SHORT CHIP	0
				R517	1-216-073-91	RES-CHIP	10K 5% 1/10W

HCD-XG55

MAIN

Ref. No.	Part No.	Description	Quantity	Unit	Remarks	Ref. No.	Part No.	Description	Quantity	Unit	Remarks
R518	1-216-025-11	RES-CHIP	100	5%	1/10W	R590	1-216-025-11	RES-CHIP	100	5%	1/10W
R519	1-216-025-11	RES-CHIP	100	5%	1/10W	R591	1-216-025-11	RES-CHIP	100	5%	1/10W
R522	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R593	1-216-025-11	RES-CHIP	100	5%	1/10W
R526	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R594	1-216-295-91	SHORT CHIP	0		
R527	1-216-025-11	RES-CHIP	100	5%	1/10W	R595	1-216-841-11	METAL CHIP	47K	5%	1/16W
R528	1-216-025-11	RES-CHIP	100	5%	1/10W	R596	1-216-837-11	METAL CHIP	22K	5%	1/16W
R529	1-216-025-11	RES-CHIP	100	5%	1/10W	R597	1-216-089-91	RES-CHIP	47K	5%	1/10W
R530	1-216-025-11	RES-CHIP	100	5%	1/10W	R600	1-216-025-11	RES-CHIP	100	5%	1/10W
R532	1-216-025-11	RES-CHIP	100	5%	1/10W	R601	1-216-049-11	RES-CHIP	1K	5%	1/10W
R533	1-216-025-11	RES-CHIP	100	5%	1/10W	R602	1-216-049-11	RES-CHIP	1K	5%	1/10W
R535	1-216-025-11	RES-CHIP	100	5%	1/10W	R603	1-216-089-91	RES-CHIP	47K	5%	1/10W
R536	1-216-025-11	RES-CHIP	100	5%	1/10W	R604	1-216-049-11	RES-CHIP	1K	5%	1/10W
R537	1-216-025-11	RES-CHIP	100	5%	1/10W	R605	1-216-115-00	METAL CHIP	560K	5%	1/10W
R538	1-216-025-11	RES-CHIP	100	5%	1/10W	R606	1-216-089-91	RES-CHIP	47K	5%	1/10W
R540	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R607	1-216-049-11	RES-CHIP	1K	5%	1/10W
R541	1-216-073-91	RES-CHIP	10K	5%	1/10W	R608	1-216-097-11	RES-CHIP	100K	5%	1/10W
R542	1-216-025-11	RES-CHIP	100	5%	1/10W	R609	1-216-033-00	METAL CHIP	220	5%	1/10W
R543	1-216-025-11	RES-CHIP	100	5%	1/10W	R651	1-216-049-11	RES-CHIP	1K	5%	1/10W
R545	1-216-025-11	RES-CHIP	100	5%	1/10W	R652	1-216-049-11	RES-CHIP	1K	5%	1/10W
R546	1-216-025-11	RES-CHIP	100	5%	1/10W	R653	1-216-089-91	RES-CHIP	47K	5%	1/10W
R547	1-216-025-11	RES-CHIP	100	5%	1/10W	R654	1-216-049-11	RES-CHIP	1K	5%	1/10W
R548	1-216-025-11	RES-CHIP	100	5%	1/10W	R655	1-216-115-00	METAL CHIP	560K	5%	1/10W
R549	1-216-025-11	RES-CHIP	100	5%	1/10W	R656	1-216-089-91	RES-CHIP	47K	5%	1/10W
R550	1-216-025-11	RES-CHIP	100	5%	1/10W	R657	1-216-049-11	RES-CHIP	1K	5%	1/10W
R551	1-216-025-11	RES-CHIP	100	5%	1/10W	R658	1-216-097-11	RES-CHIP	100K	5%	1/10W
R552	1-216-025-11	RES-CHIP	100	5%	1/10W	R659	1-216-033-00	METAL CHIP	220	5%	1/10W
R553	1-216-025-11	RES-CHIP	100	5%	1/10W	R701	1-216-049-11	RES-CHIP	1K	5%	1/10W
R554	1-216-025-11	RES-CHIP	100	5%	1/10W	R702	1-216-097-11	RES-CHIP	100K	5%	1/10W
R555	1-216-025-11	RES-CHIP	100	5%	1/10W	R703	1-216-049-11	RES-CHIP	1K	5%	1/10W
R556	1-216-041-00	METAL CHIP	470	5%	1/10W	R704	1-216-097-11	RES-CHIP	100K	5%	1/10W
R557	1-216-025-11	RES-CHIP	100	5%	1/10W	R705	1-216-049-11	RES-CHIP	1K	5%	1/10W
R558	1-216-025-11	RES-CHIP	100	5%	1/10W	R706	1-216-097-11	RES-CHIP	100K	5%	1/10W
R559	1-216-025-11	RES-CHIP	100	5%	1/10W	R721	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R561	1-216-025-11	RES-CHIP	100	5%	1/10W	R722	1-216-015-00	METAL CHIP	39	5%	1/10W
R563	1-216-025-11	RES-CHIP	100	5%	1/10W	R724	1-216-073-91	RES-CHIP	10K	5%	1/10W
R565	1-216-025-11	RES-CHIP	100	5%	1/10W	R751	1-216-049-11	RES-CHIP	1K	5%	1/10W
R567	1-216-073-91	RES-CHIP	10K	5%	1/10W	R752	1-216-097-11	RES-CHIP	100K	5%	1/10W
R568	1-216-025-11	RES-CHIP	100	5%	1/10W	R753	1-216-049-11	RES-CHIP	1K	5%	1/10W
R569	1-216-025-11	RES-CHIP	100	5%	1/10W	R754	1-216-097-11	RES-CHIP	100K	5%	1/10W
R570	1-216-089-91	RES-CHIP	47K	5%	1/10W	R755	1-216-049-11	RES-CHIP	1K	5%	1/10W
R572	1-216-025-11	RES-CHIP	100	5%	1/10W	R756	1-216-097-11	RES-CHIP	100K	5%	1/10W
R573	1-216-025-11	RES-CHIP	100	5%	1/10W	R801	1-216-049-11	RES-CHIP	1K	5%	1/10W
R574	1-216-025-11	RES-CHIP	100	5%	1/10W	R802	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R575	1-216-025-11	RES-CHIP	100	5%	1/10W	R803	1-216-025-11	RES-CHIP	100	5%	1/10W
R576	1-216-025-11	RES-CHIP	100	5%	1/10W	R804	1-216-089-91	RES-CHIP	47K	5%	1/10W
R577	1-216-025-11	RES-CHIP	100	5%	1/10W	R805	1-216-089-91	RES-CHIP	47K	5%	1/10W
R578	1-216-025-11	RES-CHIP	100	5%	1/10W	R806	1-216-073-91	RES-CHIP	10K	5%	1/10W
R579	1-216-025-11	RES-CHIP	100	5%	1/10W	R807	1-216-073-91	RES-CHIP	10K	5%	1/10W
R580	1-216-025-11	RES-CHIP	100	5%	1/10W	R808	1-216-049-11	RES-CHIP	1K	5%	1/10W
R581	1-216-025-11	RES-CHIP	100	5%	1/10W	R809	1-216-097-11	RES-CHIP	100K	5%	1/10W
R582	1-216-025-11	RES-CHIP	100	5%	1/10W	R810	1-216-033-00	METAL CHIP	220	5%	1/10W
R583	1-216-025-11	RES-CHIP	100	5%	1/10W	R811	1-216-097-11	RES-CHIP	100K	5%	1/10W
R584	1-216-025-11	RES-CHIP	100	5%	1/10W	R901	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R585	1-216-025-11	RES-CHIP	100	5%	1/10W	R902	1-216-081-00	METAL CHIP	22K	5%	1/10W
R586	1-216-025-11	RES-CHIP	100	5%	1/10W	R903	1-216-049-11	RES-CHIP	1K	5%	1/10W
R587	1-216-025-11	RES-CHIP	100	5%	1/10W	R904	1-216-073-91	RES-CHIP	10K	5%	1/10W
R588	1-216-025-11	RES-CHIP	100	5%	1/10W	R961	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R589	1-216-025-11	RES-CHIP	100	5%	1/10W						

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R962	1-216-081-00	METAL CHIP 22K	5% 1/10W	C904	1-126-964-11	ELECT 10uF	20.00% 50V
R963	1-216-057-00	METAL CHIP 2.2K	5% 1/10W	C905	1-126-968-11	ELECT 100uF	20.00% 50V
R963	1-216-825-11	METAL CHIP 2.2K	5% 1/16W	C906	1-126-943-11	ELECT 2200uF	20.00% 25V
		< VARIABLE RESISTOR >		C909	1-164-159-21	CERAMIC 0.1uF	50V
RV301	1-238-600-11	RES, ADJ, CARBON 10K		C910	1-126-947-11	ELECT 47uF	20.00% 16V
RV351	1-238-600-11	RES, ADJ, CARBON 10K				< CONNECTOR >	
		< VIBRATOR >		CN803	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P	
X501	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)		CN804	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P	
X502	1-781-107-21	VIBRATOR, SERAMIC (16MHz)		CN806	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P	
		*****		CN904	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P	
		A-4729-786-A PA BOARD,COMPLETE				< DIODE >	
		*****		D401	8-719-991-33	DIODE 1SS133T-77	
		< CAPACITOR >		D402	8-719-991-33	DIODE 1SS133T-77	
C401	1-126-963-11	ELECT 4.7uF	20.00% 50V	D405	8-719-991-33	DIODE 1SS133T-77	
C412	1-162-306-11	CERAMIC 0.01uF	30.00% 16V	D406	8-719-991-33	DIODE 1SS133T-77	
C413	1-162-306-11	CERAMIC 0.01uF	30.00% 16V	D801	8-719-991-33	DIODE 1SS133T-77	
C432	1-126-933-11	ELECT 100uF	20.00% 16V	D803	8-719-991-33	DIODE 1SS133T-77	
C433	1-126-961-11	ELECT 2.2uF	20.00% 50V	D804	8-719-991-33	DIODE 1SS133T-77	
C801	1-128-582-11	ELECT 10uF	20.00% 100V	D805	8-719-991-33	DIODE 1SS133T-77	
C802	1-162-290-31	CERAMIC 470PF	10% 50V	D833	8-719-200-82	DIODE 11ES2-NTA1B	
C803	1-162-286-21	CERAMIC 220PF	10.00% 50V	D834	8-719-200-82	DIODE 11ES2-NTA1B	
C804	1-126-967-11	ELECT 47uF	20.00% 50V	D835	8-719-200-82	DIODE 11ES2-NTA1B	
C807	1-128-560-11	ELECT 22uF	20.00% 100V	D836	8-719-200-82	DIODE 11ES2-NTA1B	
C808	1-137-749-11	MYLAR 0.1uF	100V	D841	8-719-200-82	DIODE 11ES2-NTA1B	
C809	1-137-749-11	MYLAR 0.1uF	100V	D842	8-719-200-82	DIODE 11ES2-NTA1B	
C810	1-128-578-11	ELECT 1uF	20.00% 100V	D843	8-719-200-82	DIODE 11ES2-NTA1B	
C811	1-130-491-00	MYLAR 0.047uF	5% 50V	D844	8-719-200-82	DIODE 11ES2-NTA1B	
C812	1-130-491-00	MYLAR 0.047uF	5% 50V	D851	8-719-991-33	DIODE 1SS133T-77	
C813	1-162-306-11	CERAMIC 0.01uF	30.00% 16V	D853	8-719-991-33	DIODE 1SS133T-77	
C814	1-162-294-31	CERAMIC 0.001uF	10% 50V	D902	8-719-210-21	DIODE 11EQS04-NTA1B	
C815	1-126-959-11	ELECT 0.47uF	20.00% 50V	D903	8-719-210-21	DIODE 11EQS04-NTA1B	
C830	1-107-714-11	ELECT 10uF	20.00% 50V	D904	8-719-210-21	DIODE 11EQS04-NTA1B	
C831	1-126-964-11	ELECT 10uF	20.00% 50V	D905	8-719-210-21	DIODE 11EQS04-NTA1B	
C832	1-126-967-11	ELECT 47uF	20.00% 50V	D906	8-719-991-33	DIODE 1SS133T-77	
C841	1-137-841-11	ELECT 2200uF	20% 71V	D911	8-719-982-24	DIODE MTZJ-T-77-33A	
C845	1-126-943-11	ELECT 2200uF	20.00% 25V	D912	8-719-109-89	DIODE MTZJ-T-77-5.6	
C847	1-164-159-21	CERAMIC 0.1uF	50V			< IC >	
C848	1-164-159-21	CERAMIC 0.1uF	50V	IC801	8-749-017-16	IC STK442-130	
C849	1-164-159-21	CERAMIC 0.1uF	50V	IC901	8-759-450-47	IC BA05T	
C850	1-107-721-11	ELECT 4.7uF	20.00% 100V			< TRANSISTOR >	
C851	1-128-582-11	ELECT 10uF	20.00% 100V	Q401	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
C852	1-162-290-31	CERAMIC 470PF	10% 50V	Q402	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
C853	1-162-286-21	CERAMIC 220PF	10.00% 50V	Q431	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
C854	1-126-967-11	ELECT 47uF	20.00% 50V	Q432	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
C857	1-128-560-11	ELECT 22uF	20.00% 100V	Q433	8-729-620-05	TRANSISTOR 2SC2603TP-EF	
C858	1-164-159-21	CERAMIC 0.1uF	50V	Q434	8-729-620-05	TRANSISTOR 2SC2603TP-EF	
C859	1-164-159-21	CERAMIC 0.1uF	50V	Q437	8-729-620-05	TRANSISTOR 2SC2603TP-EF	
C861	1-130-491-00	MYLAR 0.047uF	5% 50V	Q439	8-729-620-05	TRANSISTOR 2SC2603TP-EF	
C862	1-130-491-00	MYLAR 0.047uF	5% 50V	Q801	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
C863	1-126-961-11	ELECT 2.2uF	20.00% 50V	Q803	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
C891	1-137-841-11	ELECT 2200uF	20% 71V	Q804	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
C895	1-107-721-11	ELECT 4.7uF	20.00% 100V	Q805	8-729-231-55	TRANSISTOR 2SC2878AB-TPE2	
C902	1-164-159-21	CERAMIC 0.1uF	50V	Q831	8-729-029-86	TRANSISTOR DTC124ESA-TP	
C903	1-126-933-11	ELECT 100uF	20.00% 16V	Q832	8-729-620-05	TRANSISTOR 2SC2603TP-EF	

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PA	PANEL FL
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Ref. No.	Part No.	Description	Remarks		
Q833	8-729-029-40	TRANSISTOR	DTA124ESA-TP		
Q834	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q851	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q855	8-729-231-55	TRANSISTOR	2SC2878AB-TPE2		
Q901	8-729-620-05	TRANSISTOR	2SC2603TP-EF		
Q903	8-729-048-52	TRANSISTOR	2SA1932(TP)		
Q908	8-729-119-76	TRANSISTOR	2SA1115TP-EF		
		< RESISTOR >			
△ R401	1-216-458-11	METAL OXIDE	1.8K	5%	2W
R406	1-249-437-11	CARBON	47K	5%	1/4W
R407	1-249-437-11	CARBON	47K	5%	1/4W
R429	1-249-437-11	CARBON	47K	5%	1/4W
R431	1-249-438-11	CARBON	56K	5%	1/4W
R432	1-249-437-11	CARBON	47K	5%	1/4W
R434	1-249-433-11	CARBON	22K	5%	1/4W
R437	1-249-429-11	CARBON	10K	5%	1/4W
R439	1-249-425-11	CARBON	4.7K	5%	1/4W F
R440	1-249-437-11	CARBON	47K	5%	1/4W
R441	1-249-435-11	CARBON	33K	5%	1/4W
R446	1-249-429-11	CARBON	10K	5%	1/4W
R447	1-249-437-11	CARBON	47K	5%	1/4W
R460	1-249-429-11	CARBON	10K	5%	1/4W
R801	1-249-417-11	CARBON	1K	5%	1/4W F
R802	1-249-437-11	CARBON	47K	5%	1/4W
R803	1-249-415-11	CARBON	680	5%	1/4W F
R804	1-249-435-11	CARBON	33K	5%	1/4W
△ R807	1-212-881-11	FUSIBLE	100	5%	1/4W
△ R808	1-220-893-11	METAL	0.22	10%	5W
R809	1-260-076-11	CARBON	10	5%	1/2W
R810	1-249-437-11	CARBON	47K	5%	1/4W
R811	1-249-417-11	CARBON	1K	5%	1/4W F
R812	1-249-431-11	CARBON	15K	5%	1/4W
R813	1-249-441-11	CARBON	100K	5%	1/4W
R814	1-249-421-11	CARBON	2.2K	5%	1/4W F
R815	1-249-433-11	CARBON	22K	5%	1/4W
R816	1-249-429-11	CARBON	10K	5%	1/4W
R817	1-249-421-11	CARBON	2.2K	5%	1/4W F
R818	1-249-409-11	CARBON	220	5%	1/4W F
R819	1-249-439-11	CARBON	68K	5%	1/4W
△ R820	1-202-972-61	FUSIBLE	1	5%	1/4W
R821	1-249-435-11	CARBON	33K	5%	1/4W
R822	1-249-433-11	CARBON	22K	5%	1/4W
R823	1-249-433-11	CARBON	22K	5%	1/4W
R824	1-249-413-11	CARBON	470	5%	1/4W F
△ R825	1-215-891-11	METAL OXIDE	680	5%	2W
R827	1-249-441-11	CARBON	100K	5%	1/4W
R828	1-247-903-00	CARBON	1M	5%	1/4W
R831	1-249-441-11	CARBON	100K	5%	1/4W
R832	1-249-441-11	CARBON	100K	5%	1/4W
R833	1-249-433-11	CARBON	22K	5%	1/4W
R834	1-249-429-11	CARBON	10K	5%	1/4W
R835	1-249-437-11	CARBON	47K	5%	1/4W
R836	1-249-417-11	CARBON	1K	5%	1/4W F
R837	1-249-435-11	CARBON	33K	5%	1/4W
R838	1-249-435-11	CARBON	33K	5%	1/4W
R840	1-249-402-11	CARBON	56	5%	1/4W F

Ref. No.	Part No.	Description	Remarks		
R851	1-249-417-11	CARBON	1K	5%	1/4W F
R852	1-249-437-11	CARBON	47K	5%	1/4W
R853	1-249-415-11	CARBON	680	5%	1/4W F
△ R855	1-215-891-11	METAL OXIDE	680	5%	2W
△ R857	1-212-881-11	FUSIBLE	100	5%	1/4W
△ R858	1-220-893-11	METAL	0.22	10%	5W
R859	1-260-076-11	CARBON	10	5%	1/2W
R860	1-249-437-11	CARBON	47K	5%	1/4W
R861	1-249-417-11	CARBON	1K	5%	1/4W F
R862	1-249-431-11	CARBON	15K	5%	1/4W
R863	1-249-441-11	CARBON	100K	5%	1/4W
R864	1-249-425-11	CARBON	4.7K	5%	1/4W F
R865	1-249-433-11	CARBON	22K	5%	1/4W
R868	1-249-409-11	CARBON	220	5%	1/4W F
R880	1-249-402-11	CARBON	56	5%	1/4W F
△ R888	1-220-893-11	METAL	0.22	10%	5W
△ R898	1-220-893-11	METAL	0.22	10%	5W
R901	1-249-429-11	CARBON	10K	5%	1/4W
R902	1-249-441-11	CARBON	100K	5%	1/4W
R903	1-249-429-11	CARBON	10K	5%	1/4W
R904	1-249-417-11	CARBON	1K	5%	1/4W F
R905	1-249-429-11	CARBON	10K	5%	1/4W
R906	1-247-807-31	CARBON	100	5%	1/4W
R907	1-247-807-31	CARBON	100	5%	1/4W
R915	1-247-791-91	CARBON	22	5%	1/4W
		< RELAY >			
RY401	1-515-920-11	RELAY			
		< THERMISTOR >			
TH831	1-807-796-11	THERMISTOR			
		< TERMINAL >			
TM401	1-537-925-61	TERMINAL BOARD (FRONT SPEAKER)			

	A-4729-770-A	PANEL FL BOARD, COMPLETE			

	4-225-511-01	HOLDER FL TUBE			
*	4-949-935-81	CUSHION (FL)			
		< CAPACITOR >			
C601	1-126-947-11	ELECT	47uF	20.00%	16V
C602	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C603	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C604	1-162-294-31	CERAMIC	0.001uF	10%	50V
C605	1-164-159-21	CERAMIC	0.1uF		50V
C607	1-126-947-11	ELECT	47uF	20.00%	16V
C642	1-126-964-11	ELECT	10uF	20.00%	50V
C643	1-162-303-11	CERAMIC	0.0033uF	30.00%	16V
C644	1-126-964-11	ELECT	10uF	20.00%	50V
C645	1-126-947-11	ELECT	47uF	20.00%	16V
C646	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C647	1-126-963-11	ELECT	4.7uF	20.00%	50V
C648	1-126-960-11	ELECT	1uF	20.00%	50V

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

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PANEL VR

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C649	1-126-960-11	ELECT 1uF 20.00% 50V		R621	1-247-807-31	CARBON 100 5%	1/4W
		< CONNECTOR >		R622	1-162-215-31	CERAMIC 47PF 5%	50V
CN601	1-784-774-11	CONNECTOR, FFC 13P		R623	1-247-807-31	CARBON 100 5%	1/4W
* CN602	1-568-864-11	SOCKET, CONNECTOR 21P		R624	1-162-215-31	CERAMIC 47PF 5%	50V
		< DIODE >		R625	1-247-807-31	CARBON 100 5%	1/4W
D601	8-719-058-04	DIODE SEL5223S-TP15		R626	1-249-429-11	CARBON 10K 5%	1/4W
D602	8-719-050-84	DIODE RB441Q-40T-77		R627	1-249-420-11	CARBON 1.8K 5%	1/4W F
D603	8-719-991-33	DIODE 1SS133T-77		R628	1-249-410-11	CARBON 270 5%	1/4W F
		< FLUORESCENT INDICATOR TUBE >		R629	1-247-807-31	CARBON 100 5%	1/4W
FL601	1-517-941-11	INDICATOR TUBE, FLUORESCENT		R630	1-247-807-31	CARBON 100 5%	1/4W
		< IC >		R631	1-249-410-11	CARBON 270 5%	1/4W F
IC601	6-800-225-01	IC TMP88CP76F-2C28		R632	1-249-411-11	CARBON 330 5%	1/4W
IC602	8-759-570-21	IC BA3830F-E2		R633	1-249-413-11	CARBON 470 5%	1/4W F
		< COIL >		R634	1-249-414-11	CARBON 560 5%	1/4W F
L601	1-410-509-11	INDUCTOR 10uH		R635	1-249-415-11	CARBON 680 5%	1/4W F
L602	1-410-509-11	INDUCTOR 10uH		R636	1-249-417-11	CARBON 1K 5%	1/4W F
L603	1-410-509-11	INDUCTOR 10uH		R637	1-249-418-11	CARBON 1.2K 5%	1/4W F
		< LINE FILTER >		R641	1-247-893-11	CARBON 390K 5%	1/4W
LF601	1-424-228-11	FILTER, NOISE		R642	1-249-893-11	CARBON 390K 5%	1/4W
		< TRANSISTOR >		R643	1-249-441-11	CARBON 100K 5%	1/4W
Q601	8-729-029-86	TRANSISTOR DTC124ESA-TP		R645	1-249-437-11	CARBON 47K 5%	1/4W
Q602	8-729-140-04	TRANSISTOR 2SB1116-TP-LK		R646	1-249-441-11	CARBON 100K 5%	1/4W
Q603	8-729-140-04	TRANSISTOR 2SB1116-TP-LK		R647	1-249-440-11	CARBON 82K 5%	1/4W
Q604	8-729-620-05	TRANSISTOR 2SC2603TP-EF		R649	1-249-420-11	CARBON 1.8K 5%	1/4W F
Q605	8-729-047-58	TRANSISTOR DTC114TLTL2		R650	1-249-427-11	CARBON 6.8K 5%	1/4W F
Q606	8-729-047-58	TRANSISTOR DTC114TLTL2		R651	1-249-441-11	CARBON 100K 5%	1/4W
Q607	8-729-047-58	TRANSISTOR DTC114TLTL2		R652	1-249-437-11	CARBON 47K 5%	1/4W
		< RESISTOR >		R653	1-249-417-11	CARBON 1K 5%	1/4W F
R601	1-249-429-11	CARBON 10K 5%	1/4W	R654	1-249-437-11	CARBON 47K 5%	1/4W
R602	1-249-437-11	CARBON 47K 5%	1/4W	R655	1-249-417-11	CARBON 1K 5%	1/4W F
R603	1-247-807-31	CARBON 100 5%	1/4W	R656	1-249-437-11	CARBON 47K 5%	1/4W
R604	1-249-437-11	CARBON 47K 5%	1/4W	R658	1-249-441-11	CARBON 100K 5%	1/4W
R605	1-247-807-31	CARBON 100 5%	1/4W	R659	1-249-441-11	CARBON 100K 5%	1/4W
R606	1-247-807-31	CARBON 100 5%	1/4W	R660	1-249-441-11	CARBON 100K 5%	1/4W
R607	1-247-807-31	CARBON 100 5%	1/4W	R661	1-249-410-11	CARBON 270 5%	1/4W F
R608	1-249-429-11	CARBON 10K 5%	1/4W			< SWITCH >	
R609	1-249-429-11	CARBON 10K 5%	1/4W	S601	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)	
R610	1-249-429-11	CARBON 10K 5%	1/4W	S602	1-762-875-21	SWITCH, KEYBOARD (SPECTRUM ANALYZER)	
R611	1-249-429-11	CARBON 10K 5%	1/4W	S603	1-762-875-21	SWITCH, KEYBOARD (TIMER SELECT)	
R612	1-249-429-11	CARBON 10K 5%	1/4W	S604	1-762-875-21	SWITCH, KEYBOARD (SLEEP)	
R613	1-249-429-11	CARBON 10K 5%	1/4W	S605	1-762-875-21	SWITCH, KEYBOARD (⌚/CLOCK SET)	
R614	1-249-429-11	CARBON 10K 5%	1/4W	S606	1-762-875-21	SWITCH, KEYBOARD (GAME)	
R615	1-249-410-11	CARBON 270 5%	1/4W F	S607	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)	
R616	1-249-410-11	CARBON 270 5%	1/4W F	S608	1-762-875-21	SWITCH, KEYBOARD (I/⏻)	
R617	1-247-903-00	CARBON 1M 5%	1/4W	S609	1-762-875-21	SWITCH, KEYBOARD (POWER SAVE/DEMO (STANDBY))	
R618	1-247-807-31	CARBON 100 5%	1/4W			< VIBRATOR >	
R619	1-249-429-11	CARBON 10K 5%	1/4W	X601	1-781-312-11	VIBRATOR, CERAMIC (12.5 MHz)	
R620	1-249-429-11	CARBON 10K 5%	1/4W			*****	
				A-4729-773-A		PANEL VR BOARD, COMPLETE	

						< CAPACITOR >	
				C701	1-162-294-31	CERAMIC 0.001uF 10%	50V
				C702	1-162-294-31	CERAMIC 0.001uF 10%	50V
				C703	1-162-294-31	CERAMIC 0.001uF 10%	50V

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PANEL VR

Ref. No.	Part No.	Description	Remarks
C704	1-126-947-11	ELECT 47uF 20.00% 16V	
C705	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	
C711	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	
C712	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	
C714	1-126-947-11	ELECT 47uF 20.00% 16V	
C715	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	
< CONNECTOR >			
* CN701	1-568-864-11	SOCKET, CONNECTOR 21P	
< LED >			
D701	8-719-071-42	LED SEL5723C-TP15 (MOVIE)	
D702	8-719-071-42	LED SEL5723C-TP15 (ROCK)	
D703	8-719-071-42	LED SEL5723C-TP15 (REGGAE)	
D704	8-719-071-42	LED SEL5723C-TP15 (GUITAR)	
D705	8-719-071-42	LED SEL5723C-TP15 (SAMBA)	
D706	8-719-071-42	LED SEL5723C-TP15 (JAZZ)	
D707	8-719-071-42	LED SEL5723C-TP15 (TANGO)	
D708	8-719-071-42	LED SEL5723C-TP15 (DANCE)	
D709	8-719-071-42	LED SEL5723C-TP15 (GAME)	
D710	8-719-071-42	LED SEL5723C-TP15 (SALSA)	
D713	8-719-058-03	LED SEL5423E-TP15 (TUNER/BAND)	
D714	8-719-058-04	LED SEL5223S-TP15 (ENTER)	
D716	8-719-058-04	LED SEL5223S-TP15 (ENTER/NEXT)	
D717	8-719-058-04	LED SEL5223S-TP15 (GROOVE)	
D718	8-719-058-04	LED SEL5223S-TP15 (SUPER WOOFER)	
D719	8-719-057-97	LED SEL5923A-TP15 (SURROUND)	
< IC >			
IC701	8-759-567-59	IC NJU3716L	
IC702	8-759-827-68	IC NJL62H400A-1 (REMOTE CONTROL RECEIVER)	
< COIL >			
L701	1-410-509-11	INDUCTOR 10uH	
< RESISTOR >			
R701	1-249-411-11	CARBON 330 5% 1/4W	
R702	1-249-413-11	CARBON 470 5% 1/4W F	
R703	1-249-414-11	CARBON 560 5% 1/4W F	
R704	1-249-415-11	CARBON 680 5% 1/4W F	
R705	1-249-417-11	CARBON 1K 5% 1/4W F	
R706	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R707	1-249-420-11	CARBON 1.8K 5% 1/4W F	
R708	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R709	1-247-843-11	CARBON 3.3K 5% 1/4W	
R710	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R711	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R712	1-249-429-11	CARBON 10K 5% 1/4W	
R713	1-249-431-11	CARBON 15K 5% 1/4W	
R714	1-249-434-11	CARBON 27K 5% 1/4W	
R715	1-249-411-11	CARBON 330 5% 1/4W	
R716	1-249-413-11	CARBON 470 5% 1/4W F	
R717	1-249-414-11	CARBON 560 5% 1/4W F	
R718	1-249-415-11	CARBON 680 5% 1/4W F	
R719	1-249-417-11	CARBON 1K 5% 1/4W F	
R720	1-249-418-11	CARBON 1.2K 5% 1/4W F	

Ref. No.	Part No.	Description	Remarks
R721	1-249-420-11	CARBON 1.8K 5% 1/4W F	
R722	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R723	1-247-843-11	CARBON 3.3K 5% 1/4W	
R724	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R725	1-249-420-11	CARBON 1.8K 5% 1/4W F	
R726	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R727	1-247-843-11	CARBON 3.3K 5% 1/4W	
R734	1-249-417-11	CARBON 1K 5% 1/4W F	
R735	1-249-417-11	CARBON 1K 5% 1/4W F	
R736	1-249-401-11	CARBON 47 5% 1/4W F	
R737	1-247-807-31	CARBON 100 5% 1/4W	
R738	1-247-807-31	CARBON 100 5% 1/4W	
R739	1-247-807-31	CARBON 100 5% 1/4W	
R740	1-249-429-11	CARBON 10K 5% 1/4W	
R771	1-249-403-11	CARBON 68 5% 1/4W F	
R772	1-249-403-11	CARBON 68 5% 1/4W F	
R773	1-249-403-11	CARBON 68 5% 1/4W F	
R774	1-249-403-11	CARBON 68 5% 1/4W F	
R775	1-249-403-11	CARBON 68 5% 1/4W F	
R776	1-249-403-11	CARBON 68 5% 1/4W F	
R777	1-249-403-11	CARBON 68 5% 1/4W F	
R778	1-249-403-11	CARBON 68 5% 1/4W F	
R779	1-249-403-11	CARBON 68 5% 1/4W F	
R780	1-249-403-11	CARBON 68 5% 1/4W F	
R783	1-249-403-11	CARBON 68 5% 1/4W F	
R784	1-249-407-11	CARBON 150 5% 1/4W F	
R786	1-249-407-11	CARBON 150 5% 1/4W F	
R787	1-249-407-11	CARBON 150 5% 1/4W F	
R788	1-249-407-11	CARBON 150 5% 1/4W F	
R789	1-249-403-11	CARBON 68 5% 1/4W F	
< SWITCH >			
S701	1-762-875-21	SWITCH, KEYBOARD (TUNER MEMORY)	
S702	1-762-875-21	SWITCH, KEYBOARD (ENTER/NEXT)	
S703	1-762-875-21	SWITCH, KEYBOARD (-)	
S704	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)	
S705	1-762-875-21	SWITCH, KEYBOARD (+)	
S706	1-762-875-21	SWITCH, KEYBOARD (STEREO/MONO)	
S707	1-762-875-21	SWITCH, KEYBOARD (TUNING MODE)	
S708	1-762-875-21	SWITCH, KEYBOARD (ENTER)	
S709	1-762-875-21	SWITCH, KEYBOARD (P.FILE)	
S710	1-762-875-21	SWITCH, KEYBOARD (FLAT)	
S712	1-762-875-21	SWITCH, KEYBOARD (SURROUND)	
S713	1-762-875-21	SWITCH, KEYBOARD (GROOVE)	
S714	1-762-875-21	SWITCH, KEYBOARD (SUPER WOOFER)	
S715	1-762-875-21	SWITCH, KEYBOARD (SUPER WOOFER MODE)	
S716	1-762-875-21	SWITCH, KEYBOARD (GUITAR)	
S717	1-762-875-21	SWITCH, KEYBOARD (JAZZ)	
S718	1-762-875-21	SWITCH, KEYBOARD (SAMBA)	
S719	1-762-875-21	SWITCH, KEYBOARD (DANCE)	
S720	1-762-875-21	SWITCH, KEYBOARD (TANGO)	
S721	1-762-875-21	SWITCH, KEYBOARD (SALSA)	
S722	1-762-875-21	SWITCH, KEYBOARD (GAME)	
S723	1-762-875-21	SWITCH, KEYBOARD (◀)	
S724	1-762-875-21	SWITCH, KEYBOARD (▲)	
S725	1-762-875-21	SWITCH, KEYBOARD (▼)	
S726	1-762-875-21	SWITCH, KEYBOARD (▶)	
S727	1-762-875-21	SWITCH, KEYBOARD (ROCK)	

PANEL VR

SUB TRANS

TABLE SENSOR

TC (A)

TC (B)

TRANS

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
S728	1-762-875-21	SWITCH, KEYBOARD (MOVIE)		S626	1-762-875-21	SWITCH, KEYBOARD (DOLBY NR)	
S729	1-762-875-21	SWITCH, KEYBOARD (REGGAE)		S627	1-762-875-21	SWITCH, KEYBOARD (DIRECTION)	
S736	1-473-392-11	ENCODER, ROTARY (VOLUME)		*****			
*****				1-680-172-11 TC (B) BOARD			
1-680-175-11 SUB TRANS BOARD				*****			
< CAPACITOR >				< LED >			
C901	1-113-925-11	CERAMIC	0.01uF 20.00% 250V	D611	8-719-058-03	LED SEL5423E-TP15 (<)	
< CONNECTOR >				D612	8-719-058-03	LED SEL5423E-TP15 (>)	
CN901	1-564-321-00	PIN, CONNECTOR(3.96MM PITCH)2P		D613	8-719-057-97	LED SEL5923A-TP15 (■)	
* CN902	1-564-321-21	PIN, CONNECTOR(3.96MM PITCH)2P		D614	8-719-058-04	LED SEL5223S-TP15 (● REC)	
< DIODE >				< RESISTOR >			
D901	8-719-991-33	DIODE 1SS133T-77		R662	1-249-411-11	CARBON	330 5% 1/4W
< RELAY >				R663	1-249-413-11	CARBON	470 5% 1/4W F
RY901	1-755-276-11	RELAY, POWER		R664	1-249-414-11	CARBON	560 5% 1/4W F
< TRANSFORMER >				R665	1-249-427-11	CARBON	6.8K 5% 1/4W F
T901	1-435-826-11	TRANSFORMER, POWER		R666	1-249-429-11	CARBON	10K 5% 1/4W
*****				R667	1-249-431-11	CARBON	15K 5% 1/4W
1-659-058-13 TABLE SENSOR BOARD				R668	1-249-434-11	CARBON	27K 5% 1/4W
*****				R669	1-249-438-11	CARBON	56K 5% 1/4W
< PHOTO INTERRUPTER >				R670	1-249-403-11	CARBON	68 5% 1/4W F
IC202	8-749-924-18	PHOTO INTERRUPTER RPI-1391		R671	1-249-403-11	CARBON	68 5% 1/4W F
< RESISTOR >				R672	1-249-403-11	CARBON	68 5% 1/4W F
R207	1-249-416-11	CARBON	820 5% 1/4W F	R673	1-249-407-11	CARBON	150 5% 1/4W F
*****				< SWITCH >			
1-680-171-11 TC (A) BOARD				S611	1-762-875-21	SWITCH, KEYBOARD (■)	
*****				S612	1-762-875-21	SWITCH, KEYBOARD (● REC)	
< LED >				S613	1-762-875-21	SWITCH, KEYBOARD (H SPEED DUB)	
D621	8-719-058-03	LED SEL5423E-TP15 (>)		S614	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)	
D622	8-719-058-03	LED SEL5423E-TP15 (<)		S615	1-762-875-21	SWITCH, KEYBOARD (<)	
< RESISTOR >				S616	1-762-875-21	SWITCH, KEYBOARD (>)	
R681	1-249-411-11	CARBON	330 5% 1/4W	S617	1-762-875-21	SWITCH, KEYBOARD (■)	
R682	1-249-413-11	CARBON	470 5% 1/4W F	S618	1-762-875-21	SWITCH, KEYBOARD (◀◀ AMS ▶▶ ▶▶)	
R683	1-249-414-11	CARBON	560 5% 1/4W F	S619	1-762-875-21	SWITCH, KEYBOARD (◀◀ AMS ▶▶ ▶▶)	
R684	1-249-415-11	CARBON	680 5% 1/4W F	*****			
R685	1-249-417-11	CARBON	1K 5% 1/4W F	1-680-174-11 TRANS BOARD			
R686	1-249-418-11	CARBON	1.2K 5% 1/4W F	*****			
R687	1-249-403-11	CARBON	68 5% 1/4W F	< CAPACITOR >			
R688	1-249-403-11	CARBON	68 5% 1/4W F	C834	1-137-749-11	MYLAR	0.1uF 100V
< SWITCH >				C893	1-137-749-11	MYLAR	0.1uF 100V
S621	1-762-875-21	SWITCH, KEYBOARD (>)		C961	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
S622	1-762-875-21	SWITCH, KEYBOARD (<)		C963	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
S623	1-762-875-21	SWITCH, KEYBOARD (■)		< DIODE >			
S624	1-762-875-21	SWITCH, KEYBOARD (◀◀ AMS ▶▶ ▶▶)		D832	8-719-302-38	DIODE RBV-602-01	
S625	1-762-875-21	SWITCH, KEYBOARD (◀◀ AMS ▶▶ ▶▶)		D832	8-719-510-68	DIODE D5SBA204101	
< SWITCH >				< FUSE >			
< SWITCH >				△F963	1-533-310-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(6.3A/125V)
< SWITCH >				△F964	1-533-310-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(6.3A/125V)

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

HCD-XG55

TRANS

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>				<u>Remarks</u>
		< RESISTOR >				
△ R951	1-219-122-91	FUSIBLE	0.33	5%	1/4W	
△ R952	1-219-122-91	FUSIBLE	0.33	5%	1/4W	
△ R953	1-219-119-81	FUSIBLE	0.1	5%	1/4W	

MISCELLANEOUS

4	1-769-977-11	WIRE (FLAT TYPE) (13 CORE)				
5	1-693-482-11	TUNER (FM/AM)				
72	1-773-055-11	WIRE (FLAT TYPE) (17 CORE)				
73	1-773-032-11	WIRE (FLAT TYPE) (15 CORE)				
109	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)				
112	1-773-144-11	WIRE (FLAT TYPE) (21 CORE)				
151	1-790-287-11	WIRE (FLAT TYPE) (19 CORE)				
△ 153	1-575-653-11	CORD, POWER				
465	1-454-887-21	SOLENOID, PLUNGER				
507	1-452-925-21	MAGNET ASSY				
△ 601	8-820-114-02	OPTICAL PICK-UP BLOCK (KSS-213DH/Z-NP)				
602	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)				
M901	1-763-072-11	FAN, D.C.				
△ T951	1-435-797-11	TRANSFORMER, POWER				

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

MEMO

