

HCD-LX10000

SERVICE MANUAL

US Model

Ver. 1.1 2008.01



- HCD-LX10000 is the Amplifier, CD player, tape deck and tuner section in MHC-LX10000.

CD Section	Model Name Using Similar Mechanism	HCD-GX9900
	CD Mechanism Type	CDM74-F1BD81
	Base Unit Name	BU-F1BD81A
	Optical Pick-up Name	KSM-215DCP/C2NP
TAPE Section	Model Name Using Similar Mechanism	HC-GX9900
	Tape Transport Mechanism Type	CMAT5Z2

SPECIFICATIONS

AUDIO POWER SPECIFICATION

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6-ohm loads, both channels driven, from 120 Hz – 10 kHz; rates 230 watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Total harmonic distortion	Less than 0.1% (6 ohms at 1 kHz, 100 W)
Inputs	
VIDEO/MD (AUDIO) IN (phono jacks):	voltage 250/450 mV, impedance 47 kilohms
TV (AUDIO) IN (phono jack):	voltage 250 mV, impedance 47 kilohms
MIC (phone jack):	sensitivity 1 mV, impedance 10 kilohms
Outputs	
PHONES (stereo mini jack):	accepts headphones of 8 ohms or more
FRONT SPEAKER:	Use only the supplied speaker
SURROUND SPEAKER:	Use only the supplied speaker

Disc player section

System	Compact disc and digital audio system
Laser	Semiconductor laser ($\lambda=780$ nm) Emission duration: continuous
Laser Output	Max. 44.6 μ W* *This output is the value measured at a distance of 200 mm from the objective

Frequency response

Signal-to-noise ratio
Dynamic range

Tape deck section

Recording system
Frequency response
4-track 2-channel stereo
50 – 13,000 Hz (± 3 dB),
using Sony TYPE I tape

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section	
Tuning range	87.5 – 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz
AM tuner section	
Tuning range	530 – 1,710 kHz (with the interval set at 10kHz) 531 – 1,710 kHz (with the interval set at 9 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

lens surface on the Optical Pick-up Block with 7 mm aperture.
2 Hz – 20 kHz (± 0.5 dB)
Wave length 780 – 790 nm
More than 90 dB
More than 90 dB

– Continued on next page –

Mini Hi-Fi COMPONENT SYSTEM

9-887-216-02

2008A04-1

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Sony Corporation

Audio Business Group

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SONY®

HCD-LX10000

General

Power requirements	120 V AC, 60 Hz
Power consumption	250 watts
Dimensions (w/h/d) (Approx.)	280 × 360 × 398.5 mm
Mass (Approx.)	15.6 kg
Supplied accessories:	Remote Commander (1) Batteries (2) AM loop antenna (1) FM lead antenna (1) Front speaker pads (8) Surround speaker pads (8)

Design and specifications are subject to change without notice.

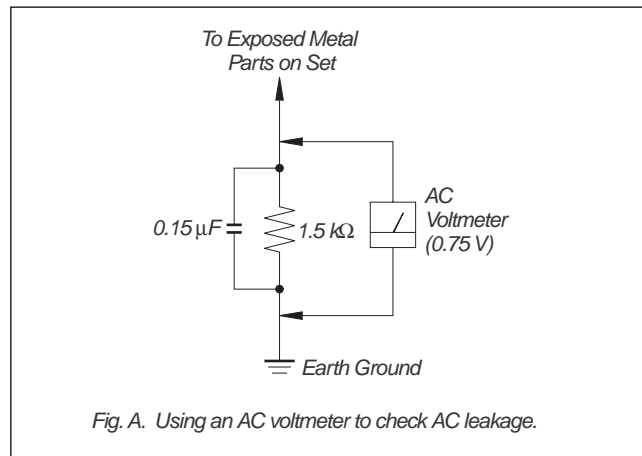
SAFETY CHECK-OUT

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

LEAKAGE

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

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



Notes on chip component replacement

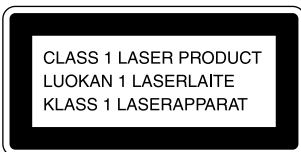
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of 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. This label is located on the rear exterior.

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.

Unleaded solder

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead. (Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)



Unleaded solder has the following characteristics.

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

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**SECTION 1
SERVICING NOTES****NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK
OR BASE UNIT**

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

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

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

NOTES ON LASER DIODE EMISSION CHECK

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

**LASER DIODE AND FOCUS SEARCH OPERATION
CHECK**

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

SECTION 2 GENERAL

This section is extracted from instruction manual.

LOCATING THE CONTROLS

List of button locations

ALPHABETICAL ORDER

A - D

- ALBUM +/- 15
- AMP MENU 29
- CD 35
- CD SYNC 9
- Deck A 27
- Deck B 18
- DIRECTION 14
- DISC 1 ~ 3 1
- Disc tray 5
- DISPLAY 39
- Display 40

E - L

- ECHO LEVEL 20
- ENTER 17
- EQ BAND 7
- EX-CHANGE/DISC SKIP 2
- GROOVE 32
- ILLUMINATION 38
- IR Receptor 36

M - R

- MASTER VOLUME 4
- MIC 1 (jack) 23
- MIC 2 (jack) 22
- MIC LEVEL 21
- MP3 BOOSTER 6
- OPERATION DIAL 25
- PHONES (jack) 24
- Power illuminator 19
- REC PAUSE/START 12

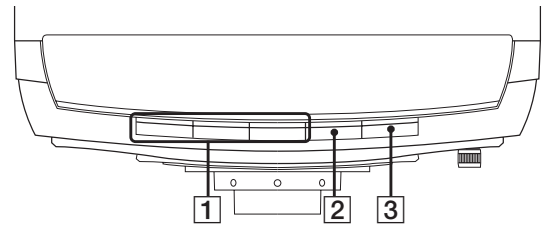
S - Z

- SOUND FLASH 26
- SURR SPEAKER MODE 41
- TAPE A/B 33
- Tape lid 18 27
- TUNER/BAND 34
- TUNING +/- 13
- TV 31
- VIDEO/MD 30

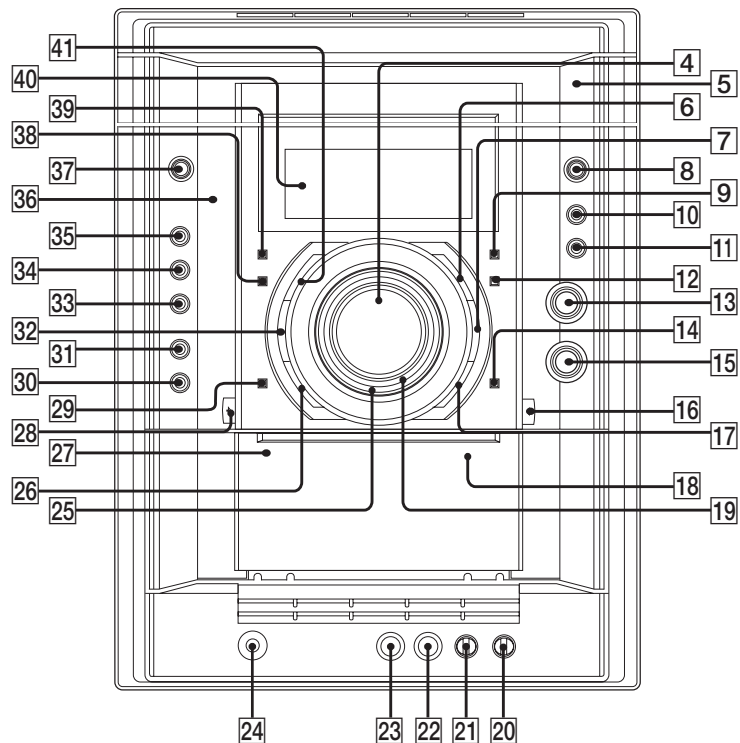
SYMBOLS

- I/⏻ (power) 37
- ▲ OPEN/CLOSE 3
- ▶▶▶▶ (play) 8
- ◀◀▶▶▶▶ (go backward/forward) 13
- ◀◀▶▶▶▶ (rewind/fast forward) 15
- || (pause) 10
- (stop) 11
- ▲ A (Eject A) 28
- B ▲ (Eject B) 16

Top Panel



Front Panel



This section is extracted from instruction manual.

Remote control

ALPHABETICAL ORDER

A - E

- ALBUM + 14
- ALBUM - 16
- CD 24
- CLEAR 18
- CLOCK/TIMER SELECT 2
- CLOCK/TIMER SET 4
- DISC SKIP 13
- DISPLAY 26
- ENTER 12
- EQ 17

F - Z

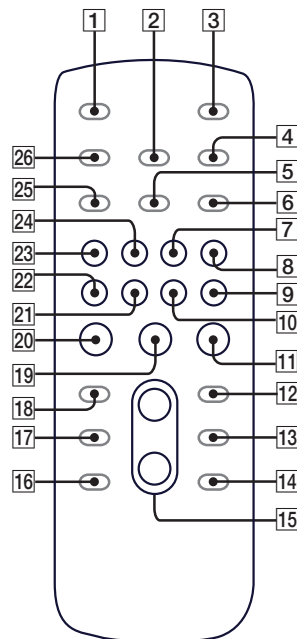
- FM MODE 6
- FUNCTION 8
- PLAY MODE 5
- REPEAT 6
- SLEEP 1

- TAPE 23
 - TUNER/BAND 7
 - TUNER MEMORY 25
 - TUNING MODE 5
 - VOLUME +/- 15
- The + button has a tactile dot.*

SYMBOLS

- I/⏻ (power) 3
- (stop) 11
- ⏸ (pause) 19
- ▶ (play) 20
- ◀◀ (go backward) 22
- ▶▶+ (go forward) 21
- ◀◀ (rewind) 10
- ▶▶ (fast forward) 9

* Use the tactile dot as a reference when operating the system.



Setting the clock

Use buttons on the remote for the operation.

- 1 Press I/⏻ to turn on the system.**
- 2 Press CLOCK/TIMER SET.**
"CLOCK" appears in the display. Then, the hour indication flashes in the display.
- 3 Press ◀◀ or ▶▶+ repeatedly to set the hour.**
- 4 Press ENTER.**
The minute indication flashes in the display.
- 5 Press ◀◀ or ▶▶+ repeatedly to set the minute.**
- 6 Press ENTER.**
The clock starts functioning.

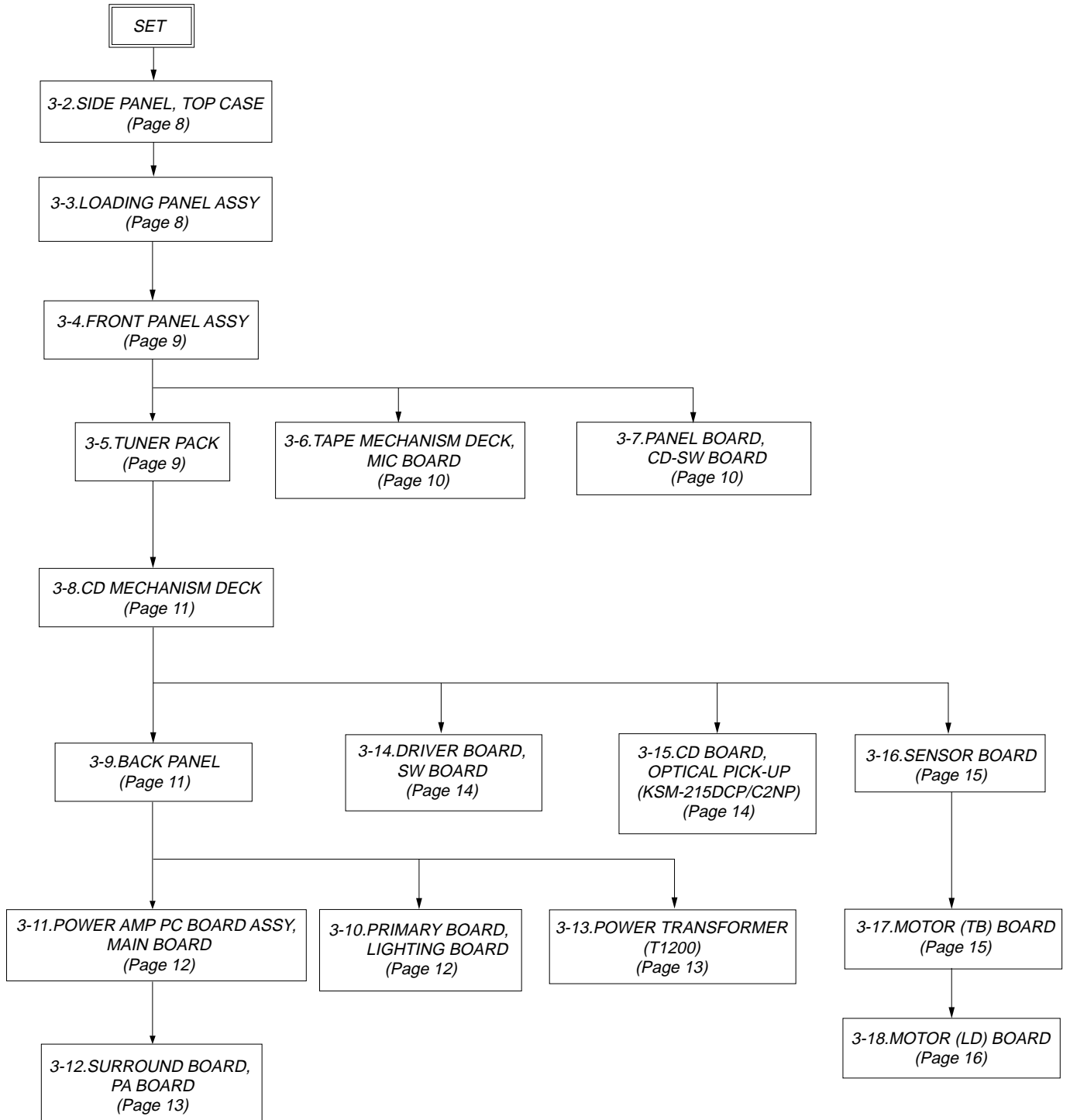
To adjust the clock

- 1 Press CLOCK/TIMER SET.**
"SET" appears in the display, then "PLAY SET?" flashes in the display.
- 2 Press ◀◀ or ▶▶+ repeatedly to select "CLOCK SET?"; then press ENTER.**
The hour indication flashes in the display.
- 3 Do the same procedures as step 3 to 6 above.**

SECTION 3 DISASSEMBLY

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

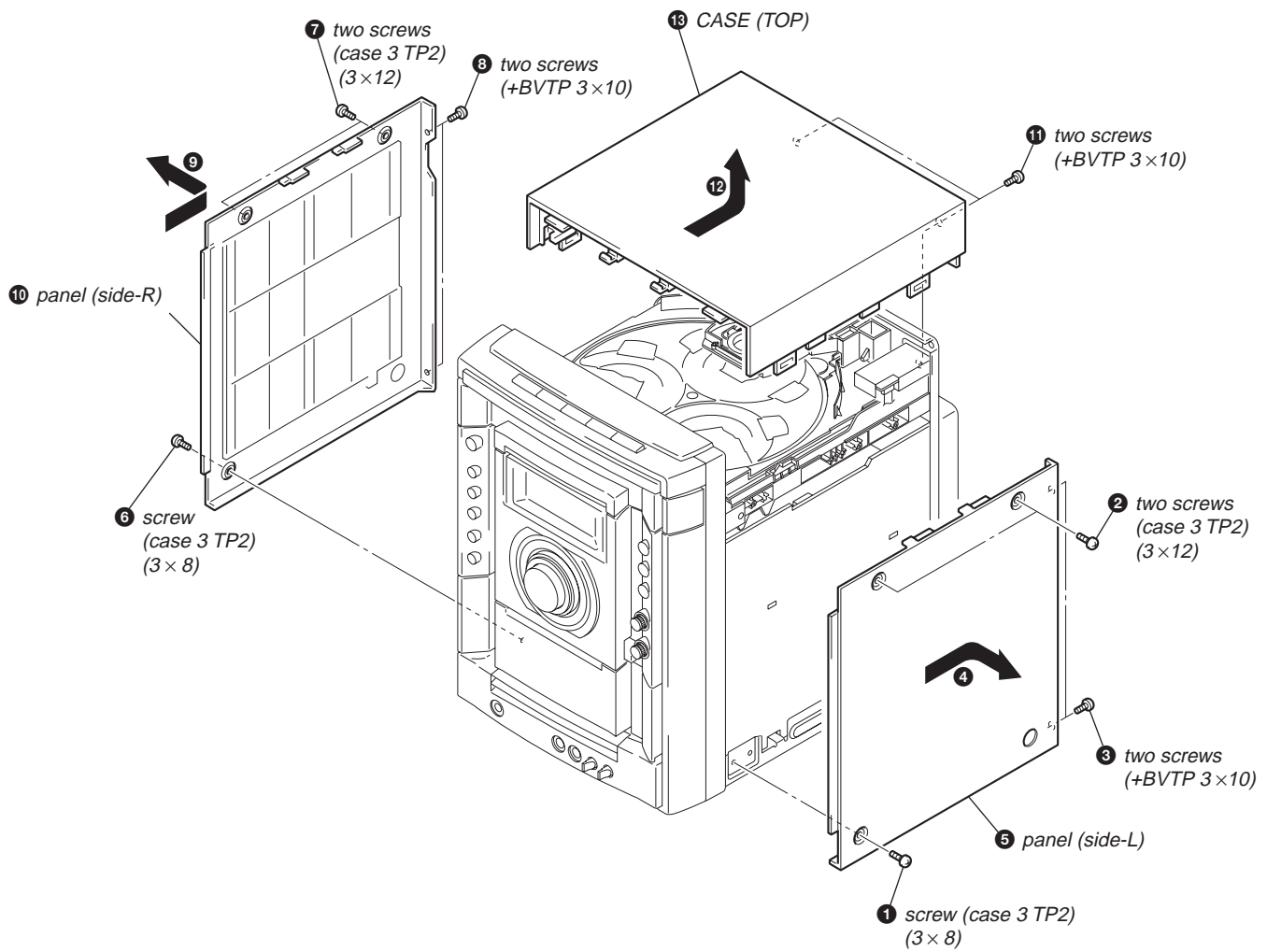
3-1. DISASSEMBLY FLOW



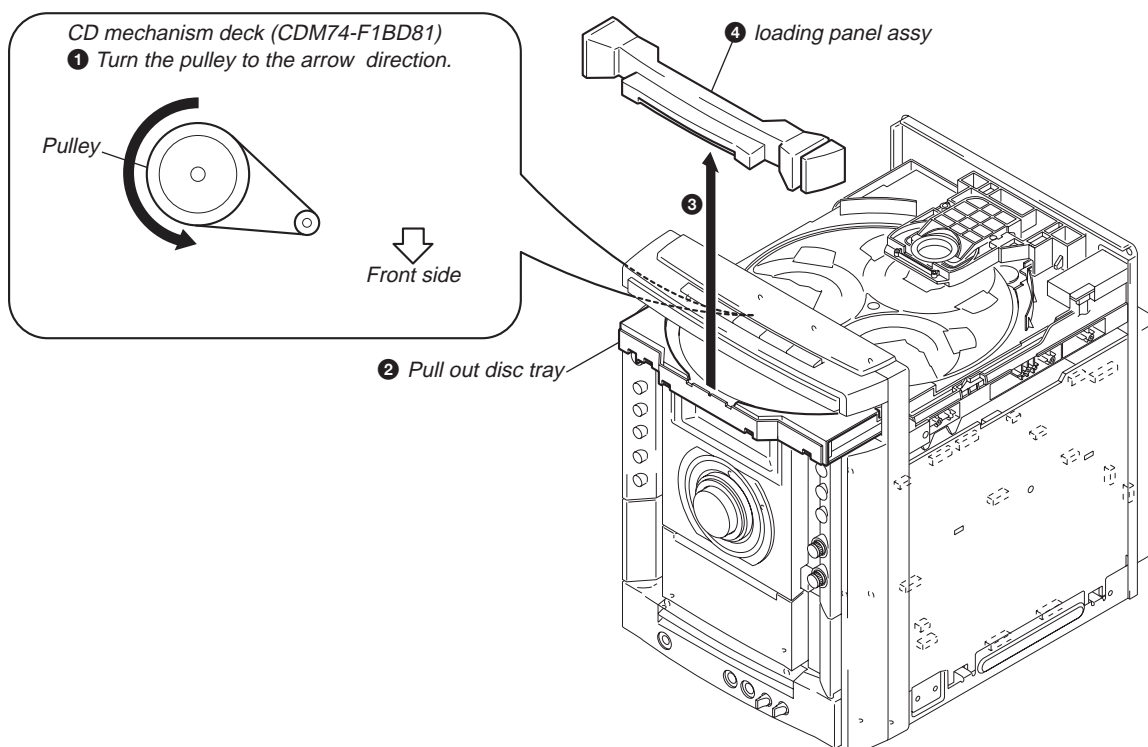
HCD-LX10000

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

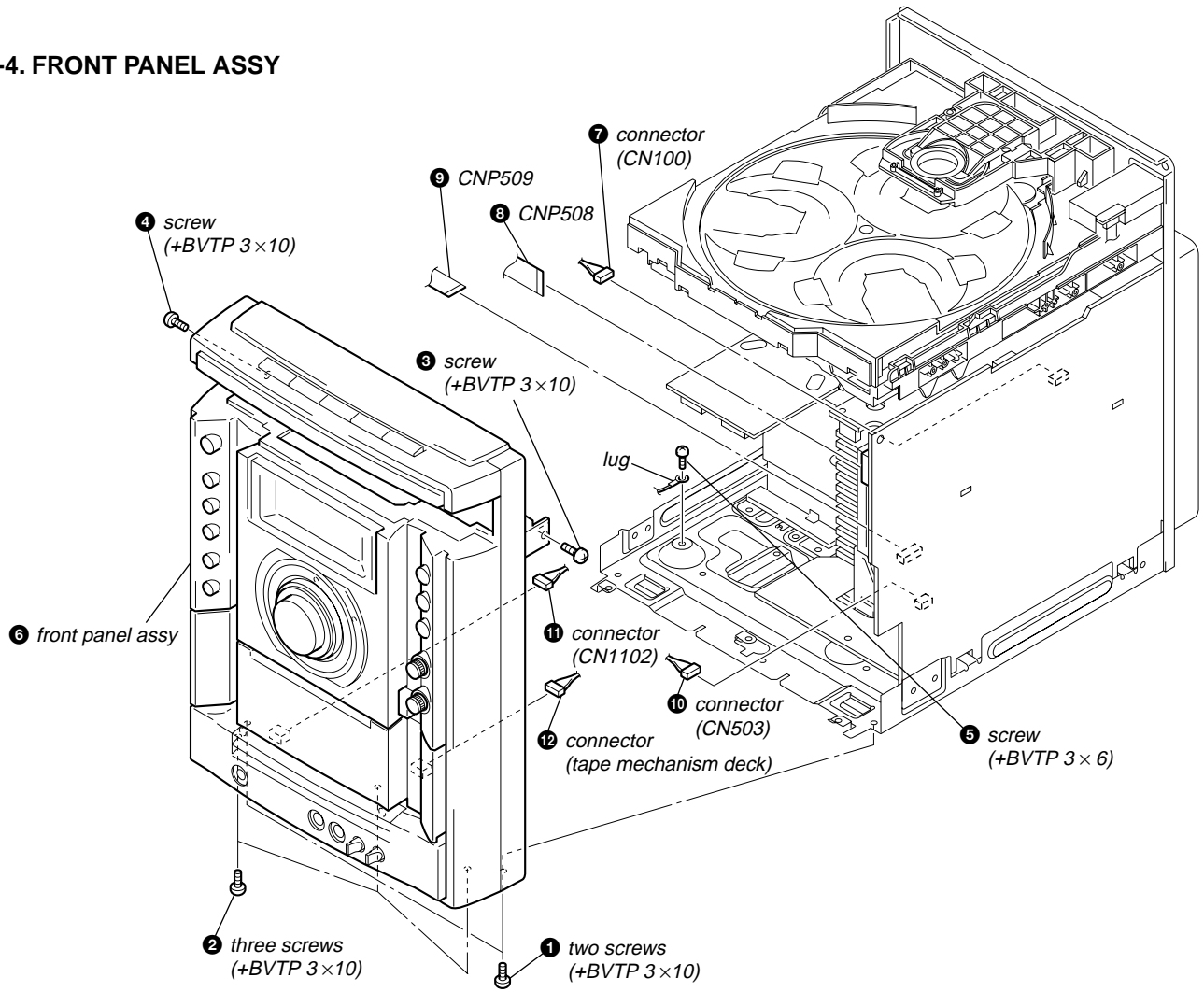
3-2. SIDE PANEL, TOP CASE



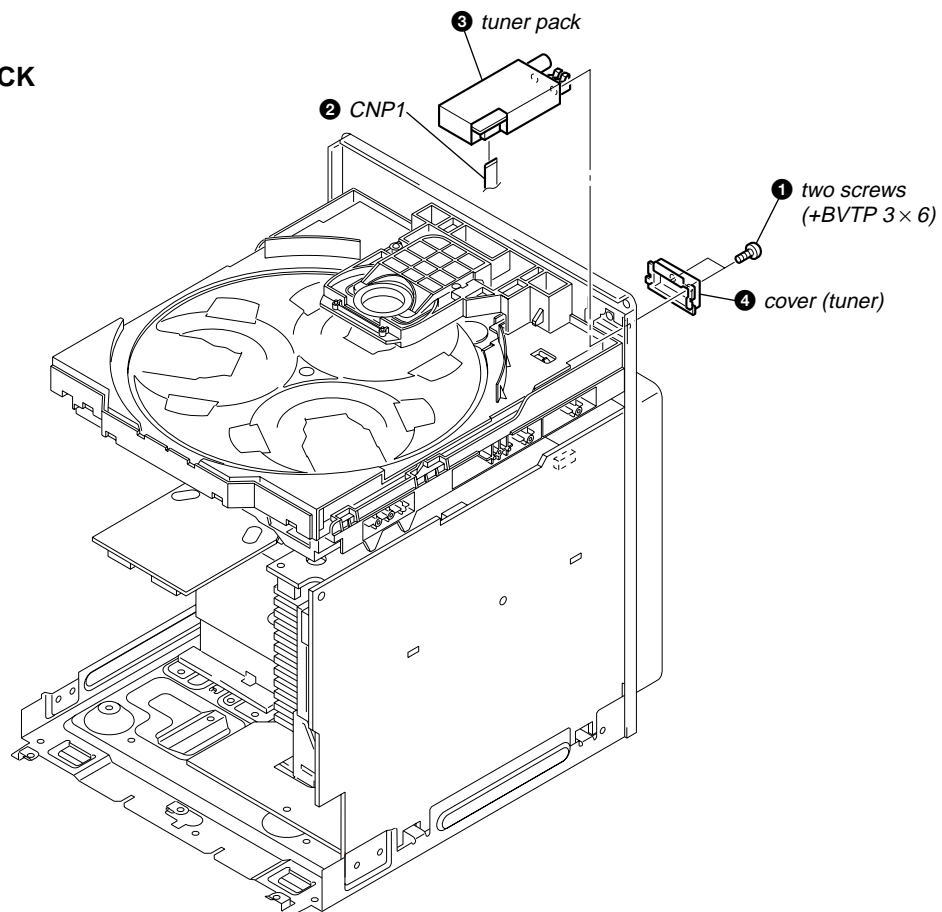
3-3. LOADING PANEL ASSY



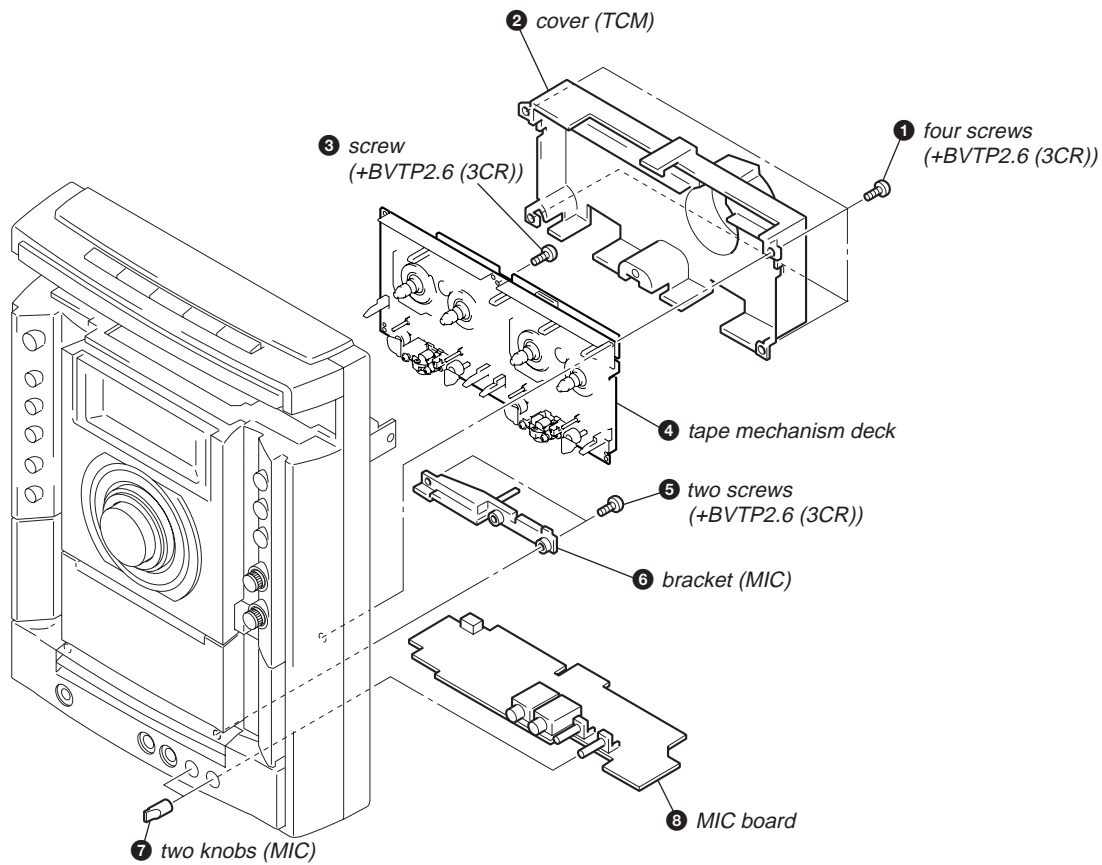
3-4. FRONT PANEL ASSY



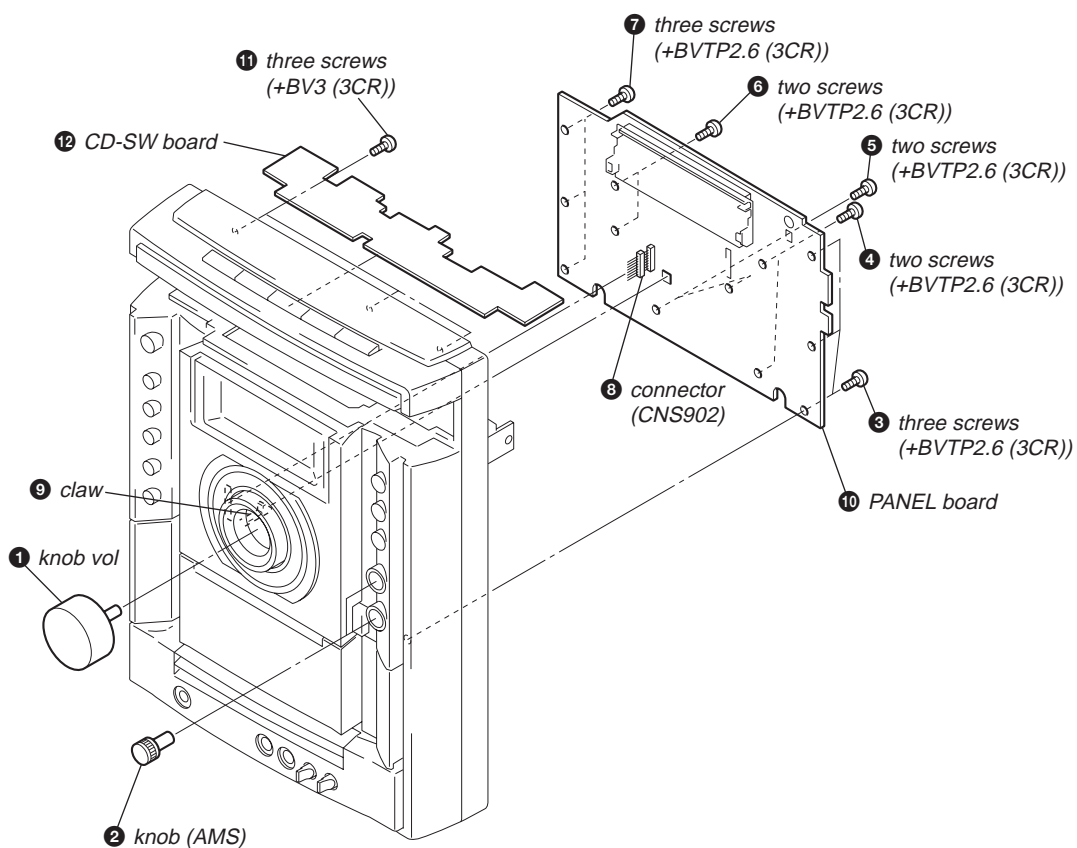
3-5. TUNER PACK



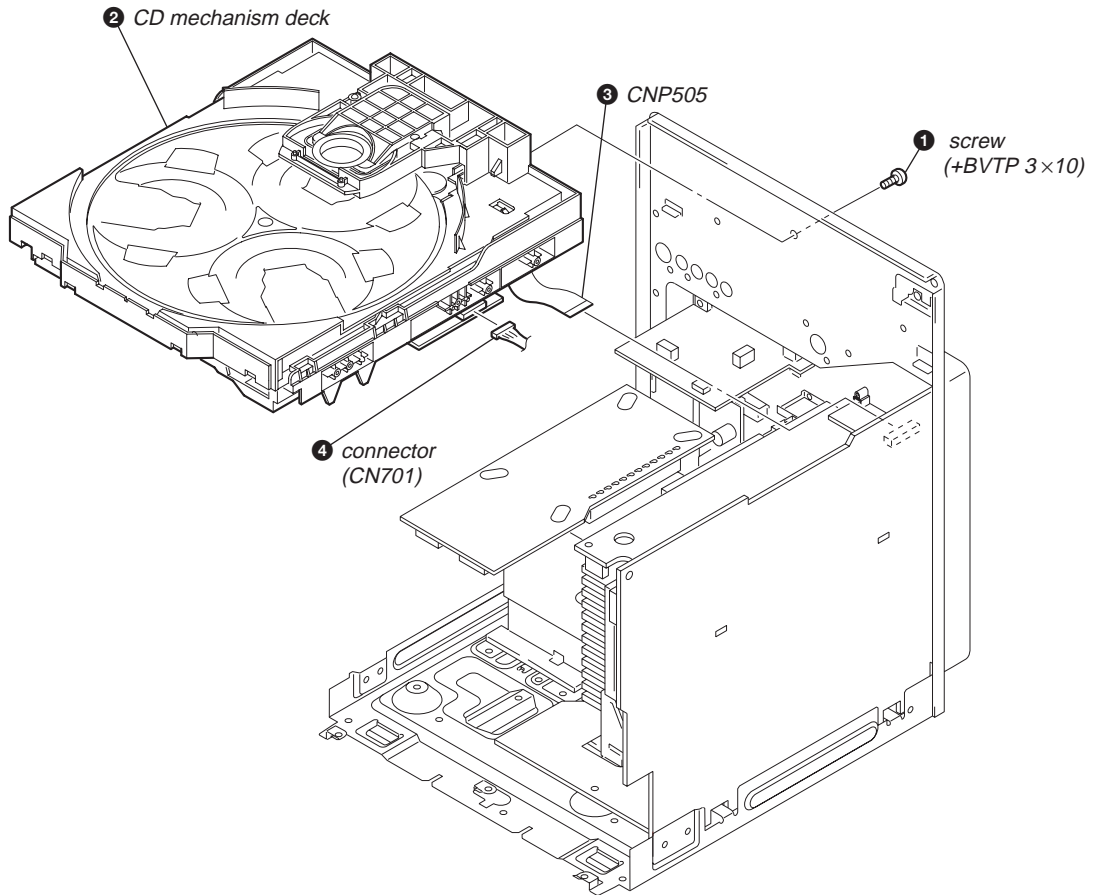
3-6. TAPE MECHANISM DECK, MIC BOARD



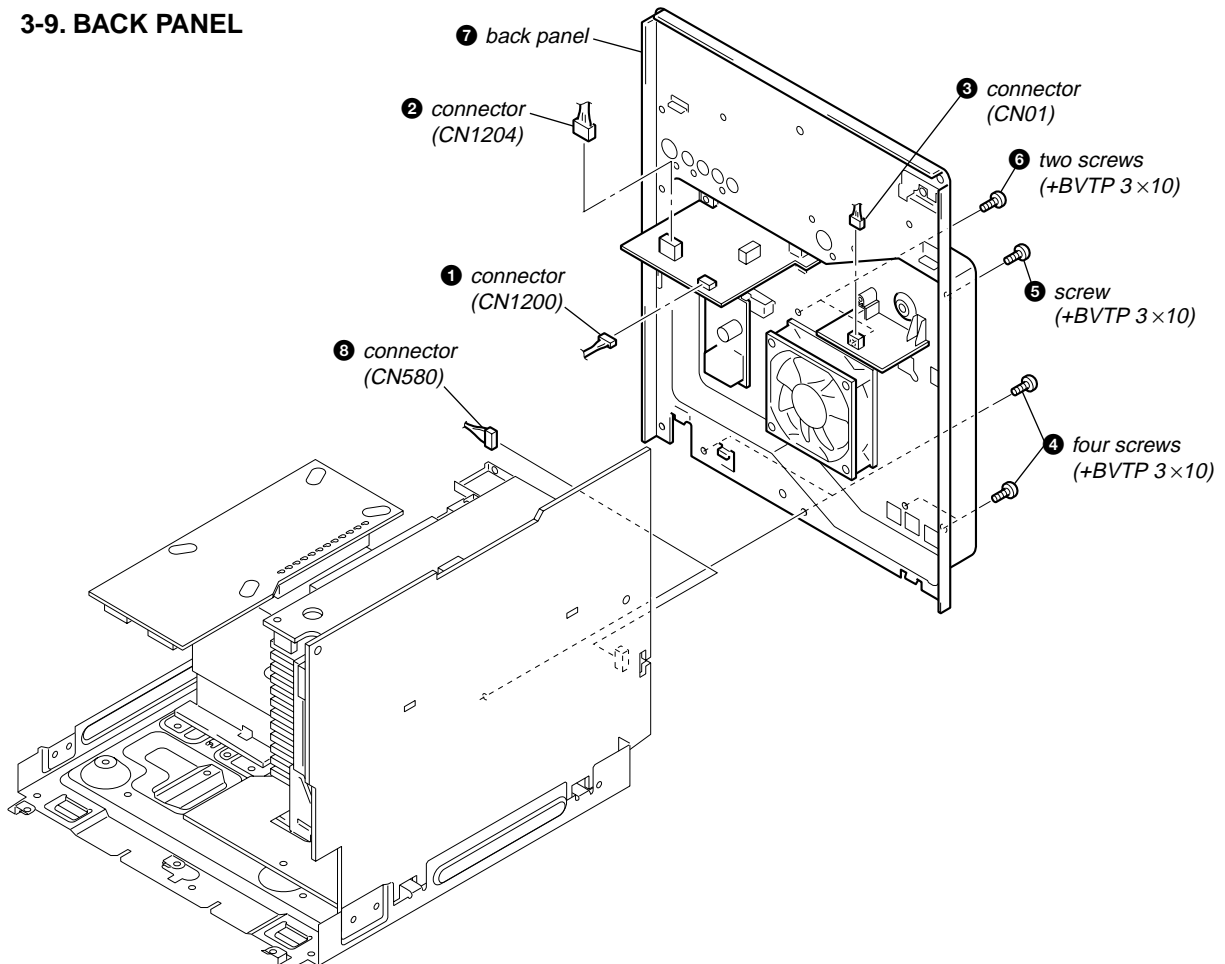
3-7. PANEL BOARD, CD-SW BOARD



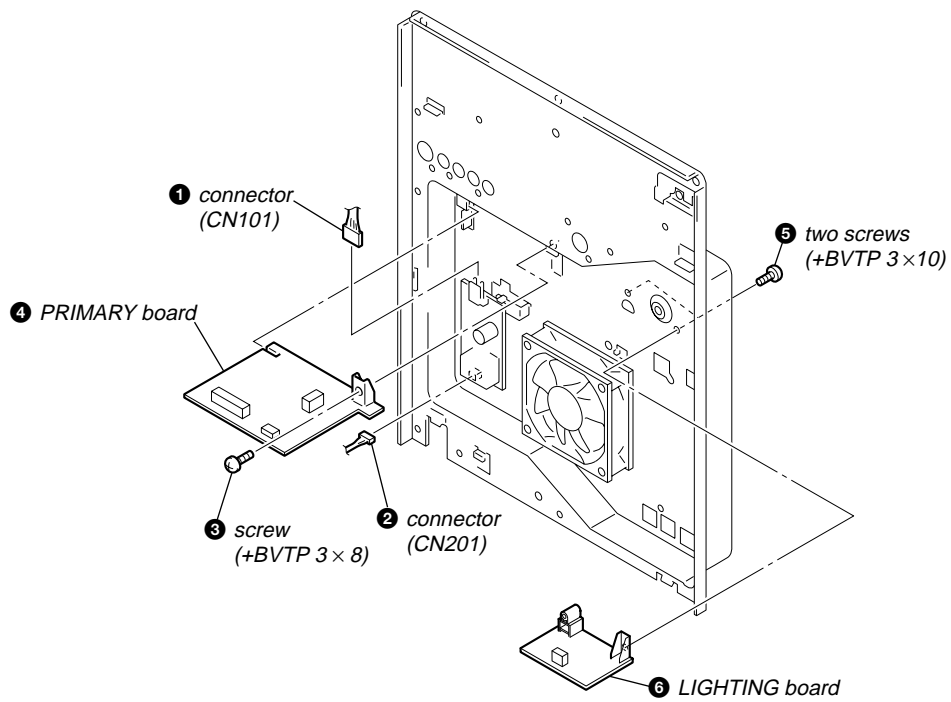
3-8. CD MECHANISM DECK



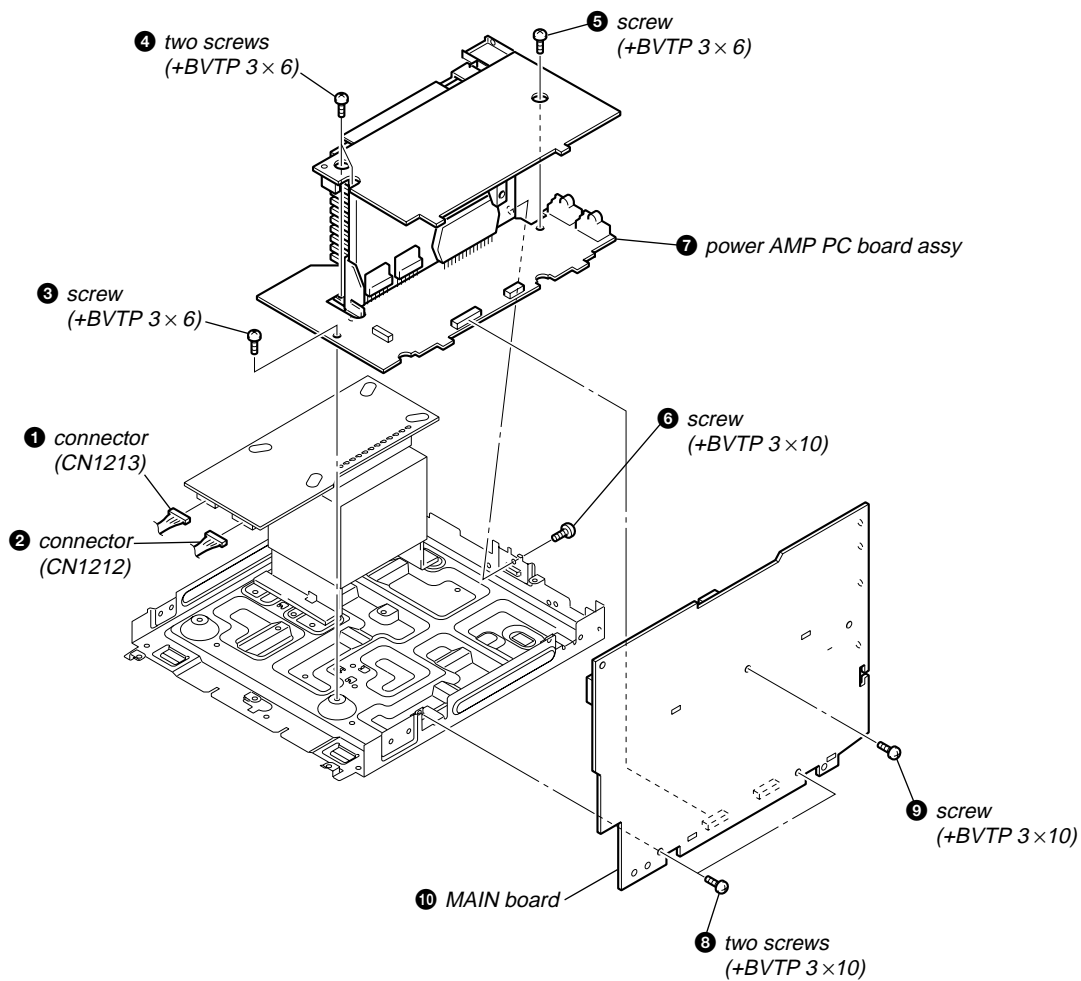
3-9. BACK PANEL



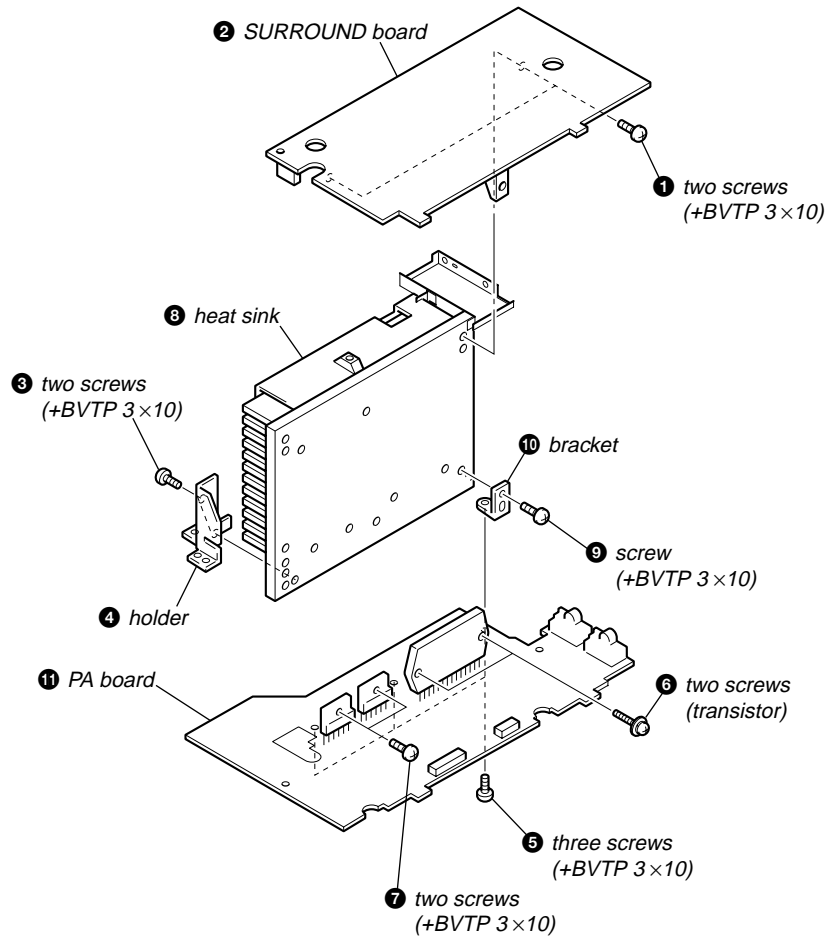
3-10. PRIMARY BOARD, LIGHTING BOARD



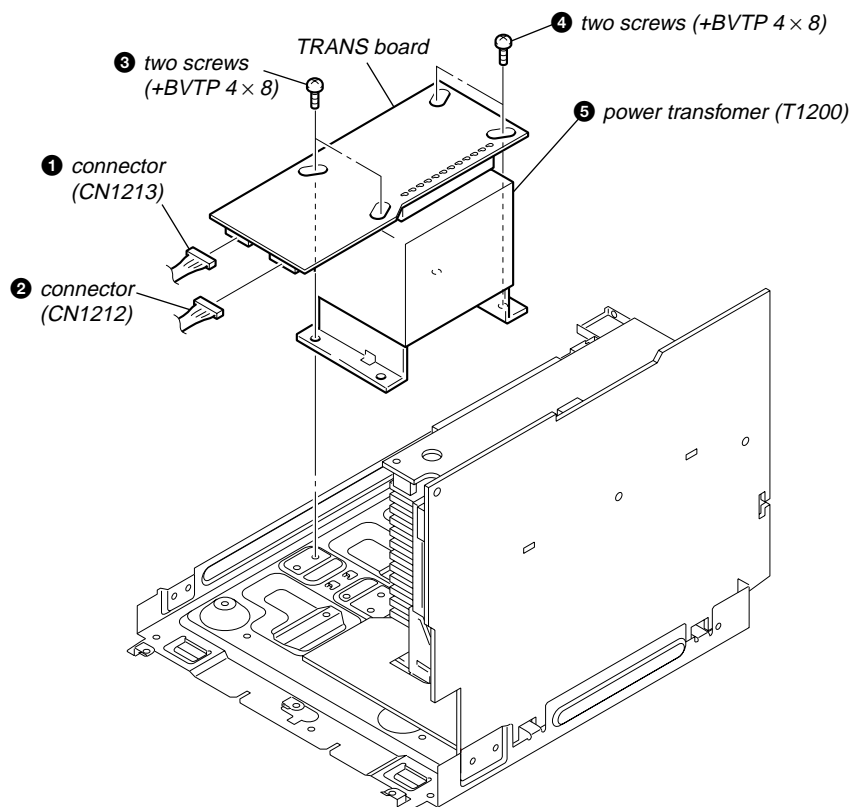
3-11. POWER AMP PC BOARD ASSY, MAIN BOARD



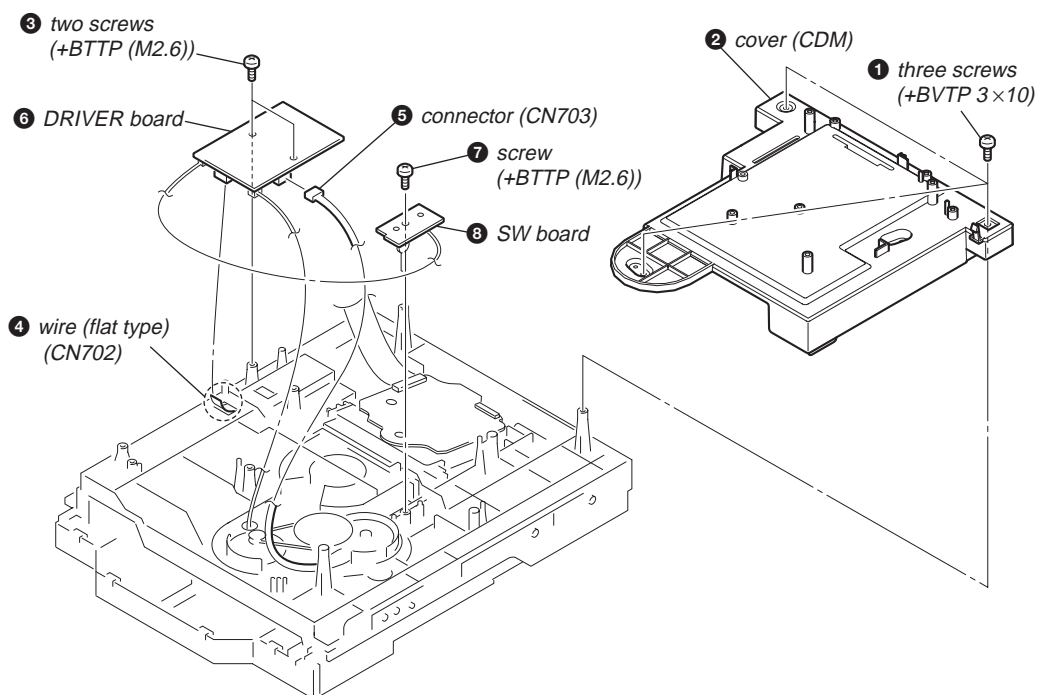
3-12. SURROUND BOARD, PA BOARD



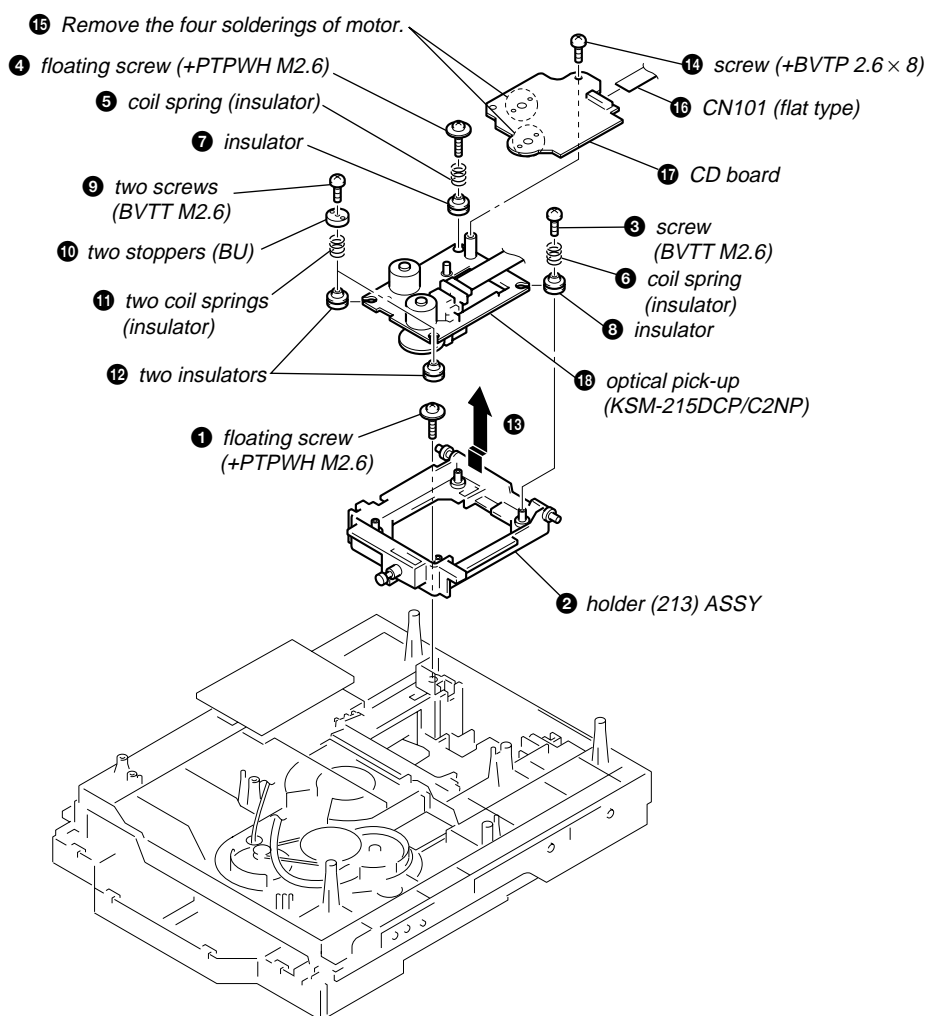
3-13. POWER TRANSFORMER (T1200)



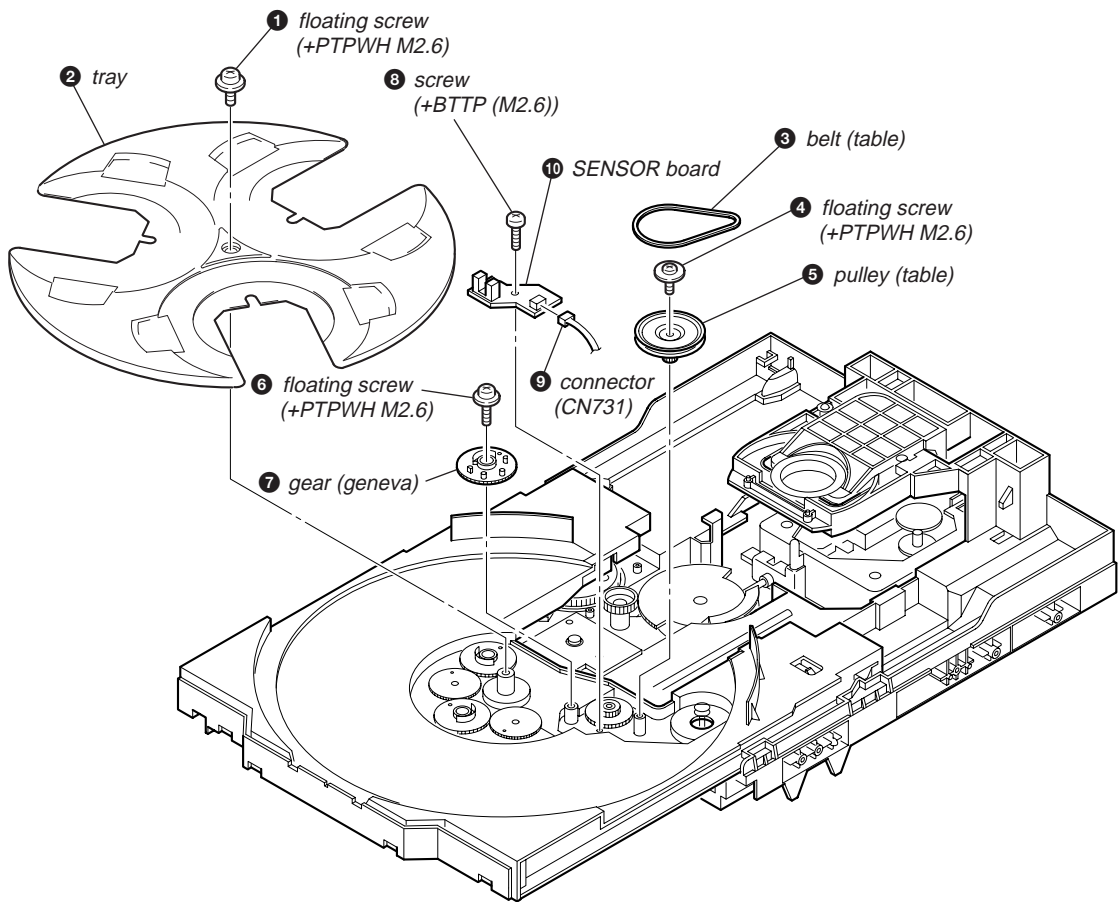
3-14. DRIVER BOARD, SW BOARD



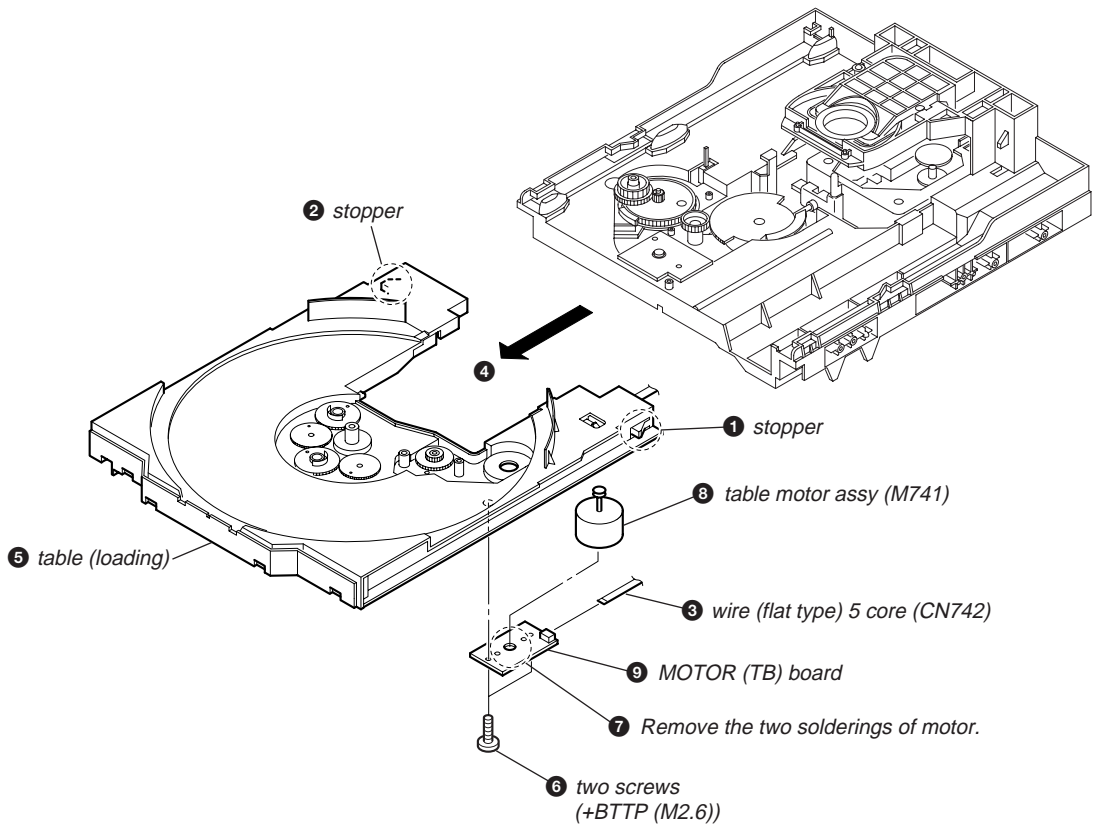
3-15. CD BOARD, OPTICAL PICK-UP (KSM-215DCP/C2NP)



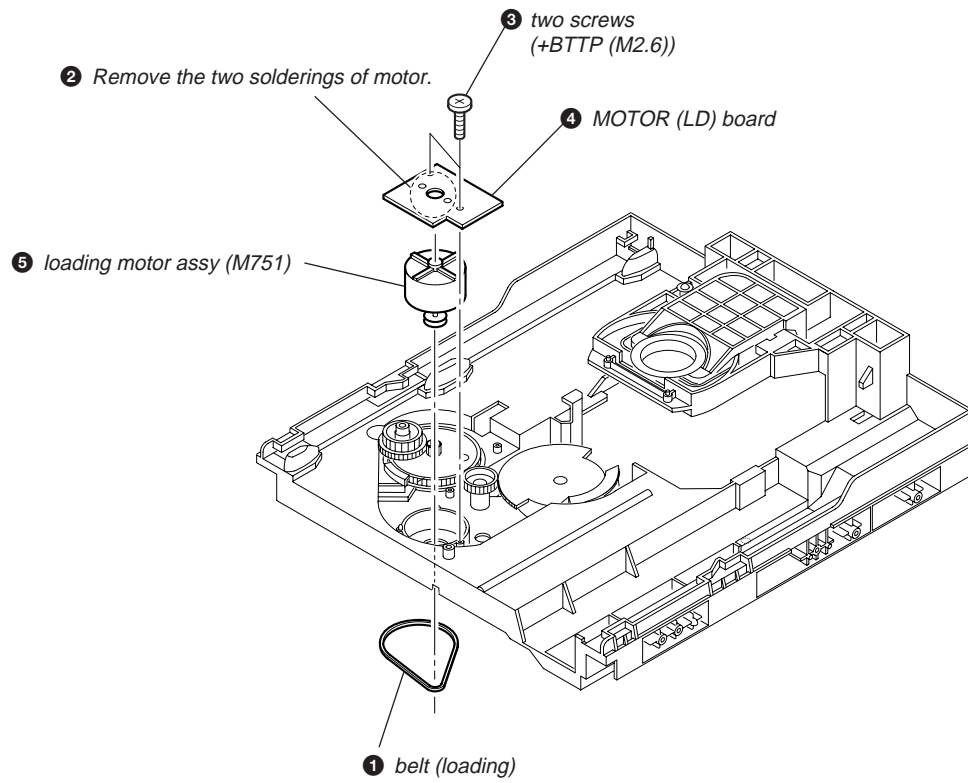
3-16. SENSOR BOARD



3-17. MOTOR (TB) BOARD



3-18. MOTOR (LD) BOARD













SECTION 4 TEST MODE



[GC TEST MODE]


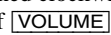
- This mode is used to check the fluorescent indicator tube, LEDs, keys, MASTER VOLUME jog, OPERATION DIAL jog, AMS jog, destination, software version and VACS level.



Procedure:


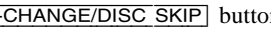
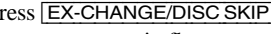
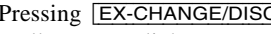
- Press  button,  button and  button simultaneously.
- All LEDs and segments in fluorescent indicator tube are lighted up. All LEDs are lighted up in red color. If the system is turned on, the  LED is lighted up in green color.
- When you want to enter the software version display mode, press  button. The model and destination are displayed.
- Each time  button is pressed, the display changes from MC version, GC version, SYS version, CD version, CDDM version, CDMA version, CDMB version, BDA version, BDB version, ST version, TC version, TA version and TM version in this order, and returns to the MC version display.
- When  button is pressed while the version numbers are being displayed except model and destination, the date of the software creation appear. When  button is pressed again, the display returns to the software version display. When  button is pressed while the date of the software creation is being displayed, the date of the software creation is displayed in the same order of software version display.
- Press  button, the key check mode is activated.
- In the key check mode, the fluorescent indicator tube displays "K 0 JOV0E0 X0".

Each time a button is pressed, "K" value increases. However, once a button has been pressed, it is no longer taken into account.

"J" value increases in the manner of 0,1, 2, 3 ... if  knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if  knob is turned counter-clockwise.

"V" value increases in the manner of 0,1, 2, 3 ... if  knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if  knob is turned counter-clockwise.

"E" value increases in the manner of 0,1, 2, 3 ... if  knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if  knob is turned counter-clockwise.




- When  button is pressed after all LEDs and segments in fluorescent indicator tube light up, the fluorescent indicator tube displays "VACS A+B APCC". A is VACS level which is triggered by signal level, B is VACS level which is triggered by temperature and CC is VACS level which is triggered by APVACS (Abuse Protection VACS). The signal level, which will trigger VACS A is shown in the center area of fluorescent indicator tube.
- When  button is pressed after all LEDs and segments in fluorescent indicator tube light up, alternate segments in fluorescent indicator tube would light up. If you press  button again, another half of alternate segments in fluorescent indicator tube would light up. Pressing  button again would cause all segments lights up.
- To release this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[MC TEST MODE]

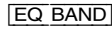
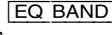
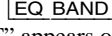


- This mode is used to check operations of the respective sections of Amplifier and Tape.

Procedure:

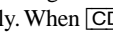

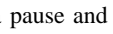
* To enter MC Test Mode

- Press  button,  button and  button simultaneously.
- The CD ring indicators, TAPE A and TAPE B indicators flash on the fluorescent indicator tube. The function is changed to VIDEO.


* Check of Amplifier

- Press  button repeatedly until a message "GEQ MAX" appears on the fluorescent indicator tube. GEQ increases to its maximum.
- Press  button repeatedly until a message "GEQ MIN" appears on the fluorescent indicator tube. GEQ decreases to its minimum.
- Press  button repeatedly until a message "GEQ FLAT" appears on the fluorescent indicator tube. GEQ set to flat.
- When the  knob is turned clockwise even slightly, the sound volume increases to its maximum and a message "VOLUME MAX" appears on the fluorescent indicator tube.
- When the  knob is turned counter-clockwise even slightly, the sound volume decreases to its minimum and a message "VOLUME MIN" appears on the fluorescent indicator tub.

* Tape function

- When a tape is inserted in Deck B and recording is started, the function is changed to VIDEO automatically. When  button is pressed during recording in function, ALC (Automatic Logic Control) is turned on.
- During recording, turn  knob counter-clockwise will stop the recording and the function is changed to TAPE B and rewind the tape in deck B until the recording start position and playback of the tape in deck B is started. If the  button is pressed for a pause and pressed again to resume recording during recording time, when the tape in deck B is rewind, the tape in deck B will be rewind until the position where the pause is applied.




* To release MC Test mode.

- To release this mode, press  button.
- The cold reset is enforced at the same time.

[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:

- Press  button,  button, and  button simultaneously.
- The fluorescent indicator tube becomes blank for a while, and the set is reset.

[VACS ON/OFF]

- This mode is used to switch ON and OFF the VACS (Variable Attenuation Control System).


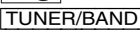



Procedure:

- Press  button to turn the set ON.
- Press  button and  button simultaneously. The message "VACS OFF" or "VACS ON" appears on the fluorescent indicator tube.

[TUNER STEP CHANGE]

- The step interval of AM channels can be toggled between 9 kHz and 10 kHz.









Procedure:

- Press  button to turn the set ON.
- Press  button repeatedly to select the "AM".
- Press  button to turn the set OFF.
- Press  button and  button simultaneously. The system will turn ON automatically. The message "AM 9k STEP" or "AM 10k STEP" appears on the fluorescent indicator tube and thus the channel step is changed.

[CD SERVICE MODE]

- This mode let you move the CD sled motor freely. Use this mode when you want to clean the optical pick-up.

Procedure:


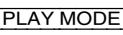



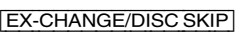

- Press  button to turn the set ON.
- Select CD function.
- Press ,  button, and  button simultaneously on the fluorescent indicator tube.
- The CD service mode is activated. The message "SERVICE MODE" appears on the fluorescent indicator tube.
- With the CD in stop status, turn  knob clockwise to move the optical pick-up to outside track, or turn  knob counter-clockwise to move to inside track. The message "SLED OUT" or "SLED IN" appears on the fluorescent indicator tube.
- To turn on or off the laser, press  button. The message "LD ON" or "LD OFF" appears on the fluorescent indicator tube.
- To release this mode, press  button.

[AGING MODE]

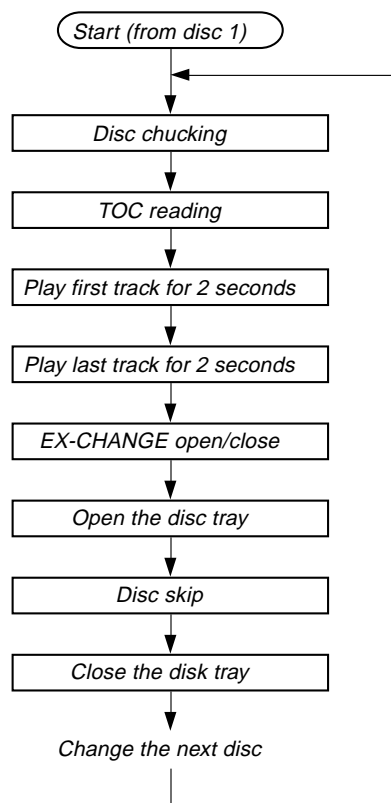
This mode can be used for operation check of CD section.

- If an error occurs, the aging operation would stops and the status is displayed.
- If there were no error occurs, the aging operation would continues repeatedly.

Procedure:

- Press  button to turn the set ON
- Select CD function.
- Load three discs on the disc tray.
- Press  button on the remote repeatedly to select the "ALL DISCS" mode, and press the  button on the remote repeatedly to select "REPEAT OFF" mode.
- Press ,  button and  button simultaneously.
- Aging operation is started.
- To release from this mode, press  button or disconnect the power cord to turn the power OFF.

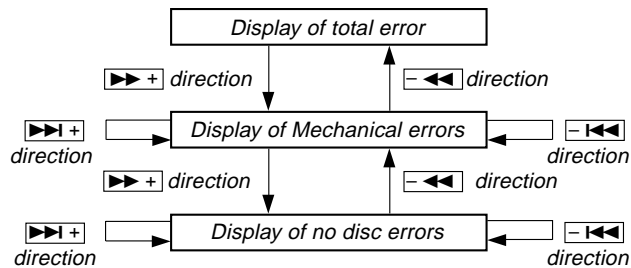
Aging mode sequence:



• **Display when an error occurred (CD Error Code Mode)**

Procedure:

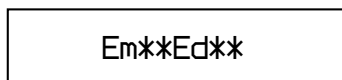
1. Press button, button and button simultaneously to enter the error code display mode.
2. The fluorescent indicator tube displays the number of total error.
3. Each time knob is rotated, display change as below.



4. To clear the error record, operate the cold reset. (Refer to the “MC COLD RESET”)
5. To release this mode, press the button or disconnect the power cord to turn the power OFF.

1) Display of total error

Display

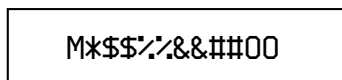


Em**: The number of mechanical errors.

Ed**: The number of no disc errors after chucking the disc.

2) Display of mechanical errors

Display



M*: The number of mechanical error (“00” is latest one)

(Rotate knob in the direction of either to display next error)

\$\$: Not used

%%: Loading related error (Second figure is not used)

- D: Stop by the problem other than mechanical problem while closing.
- E: Stop by the problem other than mechanical problem while opening.
- C: Stop by the problem other than mechanical problem while chucking up.
- F: Stop by the problem other than mechanical problem while chucking down.

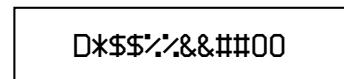
&&: Emerging error

- 01: Stop while chucking up.
- 02: Stop while chucking up.
- 03: Time-out of EX-CHANGE open.
- 05: Time-out of EX-CHANGE close.

##: Not used

3) Display of no disc errors

Display



D*: The number of no disc error (“00” is latest one)

(Rotate knob in the direction of either to display next error)

\$\$: Error type

- 01: Focus error
- 02: GFS error
- 03: Setup error

%%: Not used

&&:

- 00: No disc judgment without chucking retry.
- 01: No disc judgment after chucking retry.

##: The state when judged as no disc

- 01: Stop
- 02: Setup
- 03: TOC reading
- 04: Access
- 05: Playback
- 06: Pause
- 07: Manual search (Play)
- 08: Manual search (Pause)

[CD REPEAT 5 LIMIT OFF MODE]

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

Procedure:

1. Press button to turn the set ON.
2. Select CD function.
3. Press button, button and button simultaneously to enter the CD repeat 5 limit off mode and the message “LIMIT OFF” appears on the fluorescent indicator tube .
4. To release this mode, operate the cold reset. (Refer to the “MC COLD RESET”)

[CD SHIP MODE (WITH MEMORY CLEAR)]

- This mode moves the optical pick-up to the position durable to vibration and clears all data including preset data stored in the RAM to initial conditions. Use this mode when returning the set to the customer after repair.




Procedure:

1. Press button to turn the set ON.
2. Select CD function.
3. Press button, button and button simultaneously. The set will power off automatically.
4. After the “STANDBY” blinking display finishes, a message “LOCK” appears on the fluorescent indicator tube and the CD ship mode is set.

[CD SHIP MODE (WITHOUT MEMORY CLEAR)]

- 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:

1. Press  button to turn the set ON.
2. Select CD function.
3. Press  button and  button simultaneously. The set will power off automatically.
4. After the "STANDBY" blinking display finish, a message "LOCK" appears on the fluorescent indicator tube and the CD ship mode is set.


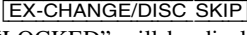
[CD POWER MANAGE]

- This mode let you switch on or off power supply to the BU during TUNER function.
- When CD POWER is set to OFF, the power supply to the BU is cut off during TUNER function. It will increase the time taken to access CD when function change from TUNER to CD but it will improve tuner reception.
- When CD POWER is set to ON, the power supply to the BU is not cut off during TUNER function. It will reduce the time taken to access CD when function change from TUNER to CD but it will decrease tuner reception performance.




Procedure:

1. Press  button to turn the set ON.
2. Select CD function.
3. Press  button to turn the set OFF.
4. Press  button and  button simultaneously. The set will power on automatically.
5. The message "CD POWER ON" or "CD POWER OFF" will be displayed on the fluorescent indicator tube.

[CD TRAY LOCK MODE]

- This mode let you lock the disc tray. When this mode is activated, the disc tray will not open when  button or  button is pressed. The message "LOCKED" will be displayed on the fluorescent indicator tube.




Procedure:

1. Press  button to turn the set ON.
2. Select CD function.
3. Press  button and  button simultaneously and hold down until "LOCKED" or "UNLOCKED" appears on the fluorescent indicator tube (around 5 seconds).

[VIDEO/MD SWITCHING]

- This mode let you switch from VIDEO to MD and vice-versa.



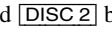
Procedure:

1. Press  button to turn the set ON.
2. Select VIDEO function.
3. Press  button and  button simultaneously. The function will change to MD. Press the same buttons again to change from MD to VIDEO.

[REMOTE COMMANDER DISABLE MODE]

- This mode let you disable the remote commander reception. When this mode is activated, the set will not response if the button on the remote commander is pressed. The message "RemoteDisable" will be displayed on the fluorescent indicator tube. Use this mode during aging to avoid disturbance.

Procedure:

1. Press  button,  button and  button simultaneously. The message "RemoteDisable" appears on the fluorescent indicator tube. To enable the remote commander reception, press the same buttons again. The message "RemoteEnable" appears on the fluorescent indicator tube.

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	2.94 to 7.84 mN • m 30 to 79 g • cm (0.43 to 1.09 oz • inch)
FWD back tension	CQ-102C	0.15 to 0.59 mN • m 1.6 to 6 g • cm (0.03 to 0.08 oz • inch)
REV	CQ-102RC	2.94 to 7.84mN • m 30 to 79 g • cm (0.43 to 1.09 oz • inch)
REV back tension	CQ-102RC	0.15 to 0.59 mN • m 1.6 to 6 g • cm (0.03 to 0.08 oz • inch)
FF/REW	CQ-201B	6.86 to 17.64 mN • m 70 to 179 g • cm (0.98 to 2.48 oz • inch)

SECTION 6 ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB=0.775 V

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

- Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment

RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

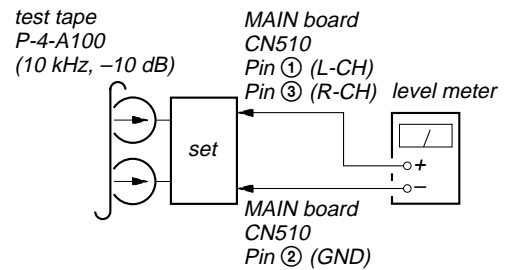
DECK A

DECK B

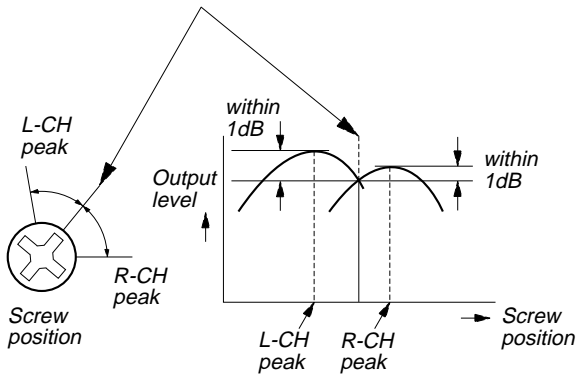
Note: Perform this adjustments for both decks

Procedure:

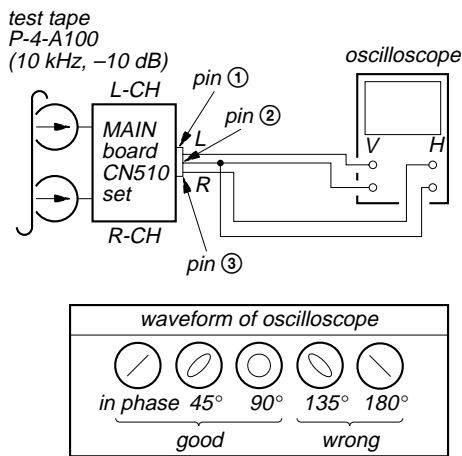
1. Mode: Playback



- 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.

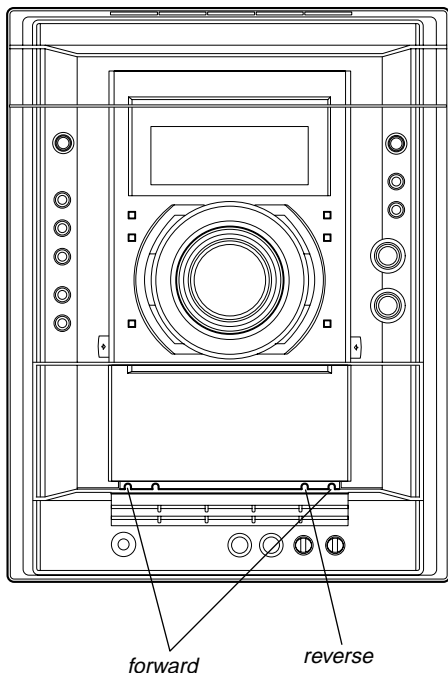


- Mode: Playback



- After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location: Playback Head (Deck A).
Record/Playback/Erase Head (Deck B).



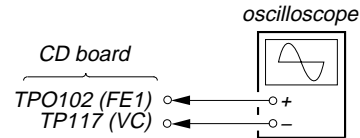
CD SECTION

Note:

- CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
- Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
- Use an oscilloscope with more than 10MΩ impedance.
- 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

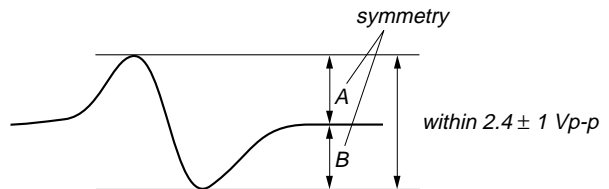
Connection:



Procedure:

- Connect an oscilloscope to test point TPO102 (FE1) and TP 117(VC) on the CD board.
- Turn the power on.
- Put the disc (YEDS-18) in and turned power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out)
- Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2.4 ± 1 Vp-p.

S-curve waveform



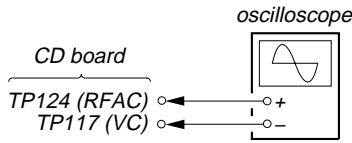
Note:

- 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.

Checking Location: CD board (SIDE B)
(See page 24.)

RFAC Level Check

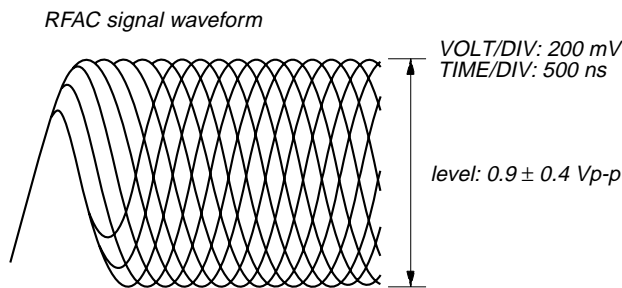
Connection:



Procedure:

1. Connect an oscilloscope to test point TP124 (RFAC) and TP117(VC) on the CD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFAC signal level is correct or not.

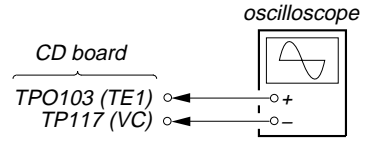
Note: A clear RFAC signal waveform means that the shape “∅” can be clearly distinguished at the center of the waveform.



Checking Location: CD board (SIDE B)
(See page 24.)

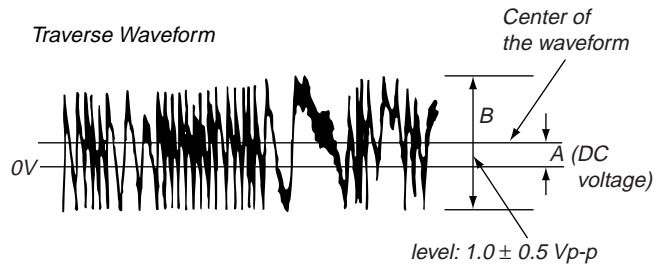
E-F Balance Check

Connection:



Procedure:

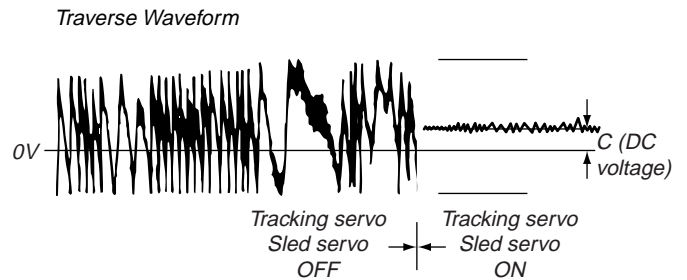
1. Connect an oscilloscope to test point TPO103 (TE1) and TP117 (VC) on the CD board.
2. Turn the power on.
3. Select the function “CD”.
4. Press three buttons of [ENTER], [▶▶], and [SURROUND MODE] simultaneously to set the CD service mode.
5. Put the disc (YEDS-18) in to playback the number five track.
6. Press the [◀◀] button. The message “TRAVERSE” is displayed. (The tracking servo and the sledding servo are turned OFF)
7. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform.
Confirm the following :
A/B x 100 = less than ± 22%



8. Press the [◀◀] button. The message “TRAVERSE” is displayed. (The tracking servo and sledding servo are turned ON)
Confirm the C (DC voltage) is almost equal to the A (DC voltage) is step 5.
9. To exit from this mode, perform as follows.
 - 1) Move the optical pick-up to the most inside track.
 - 2) Press three buttons of [■], [CLEAR], and [DISPLAY] simultaneously. (cold reset)

Notes:

- Always move the optical pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

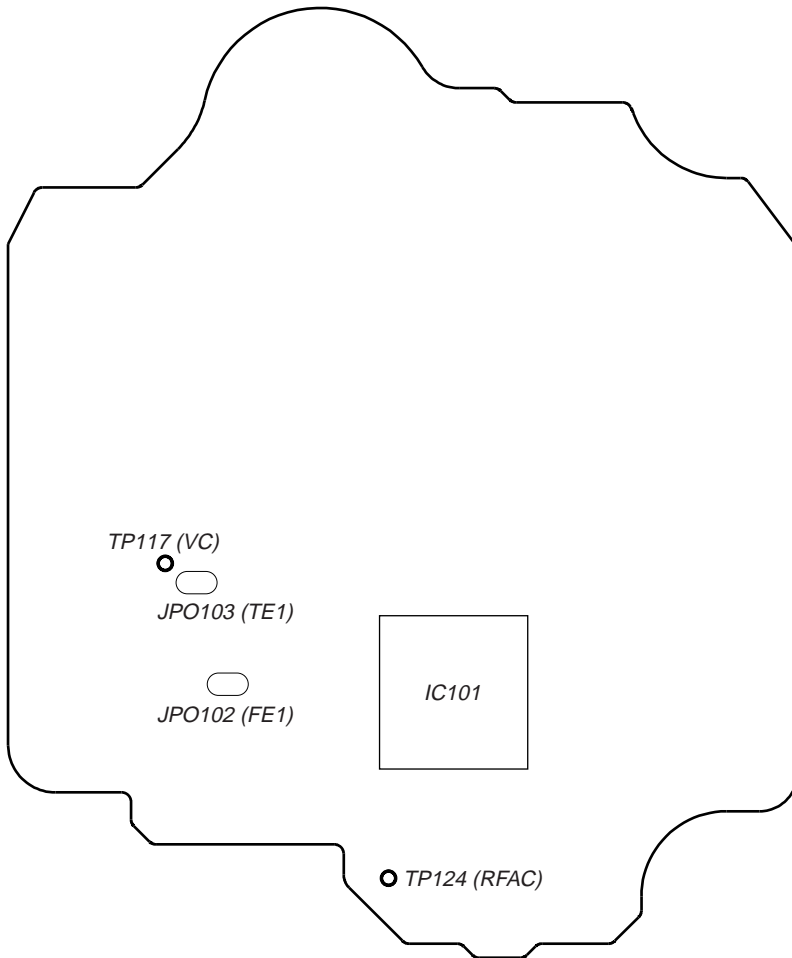


Checking Location: CD board (SIDE B) (See page 24.)

HCD-LX10000

Checking Location:



– CD BOARD (SIDE B) –












SECTION 7 DIAGRAMS

For schematic diagrams.

Note:



- All capacitors are in μF unless otherwise noted. (p: pF) 50 V or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4} W$ or less unless otherwise specified.
- % : indicates tolerance.
- Δ : internal component.
-  : nonflammable resistor.
-  : fusible resistor.

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

-  : panel designation.
-  : B+ Line.
-  : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- CD board
no mark: CD PLAY
Other board
no mark: TUNER (FM/AM)
- () : CD PLAY
- < > : TAPE PLAY
- [] : TAPE REC
- * : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
-  : TUNER (FM/AM)
-  : TAPE PLAY (DECK A)
-  : TAPE PLAY (DECK B)
-  : RECORD
-  : CD PLAY
-  : MIC INPUT

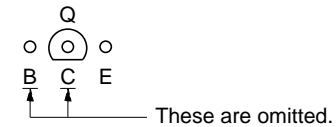
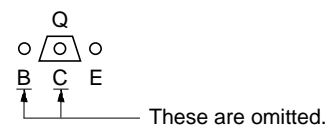
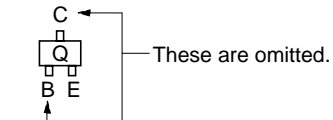
Note on Printed Wiring Boards:

Note:

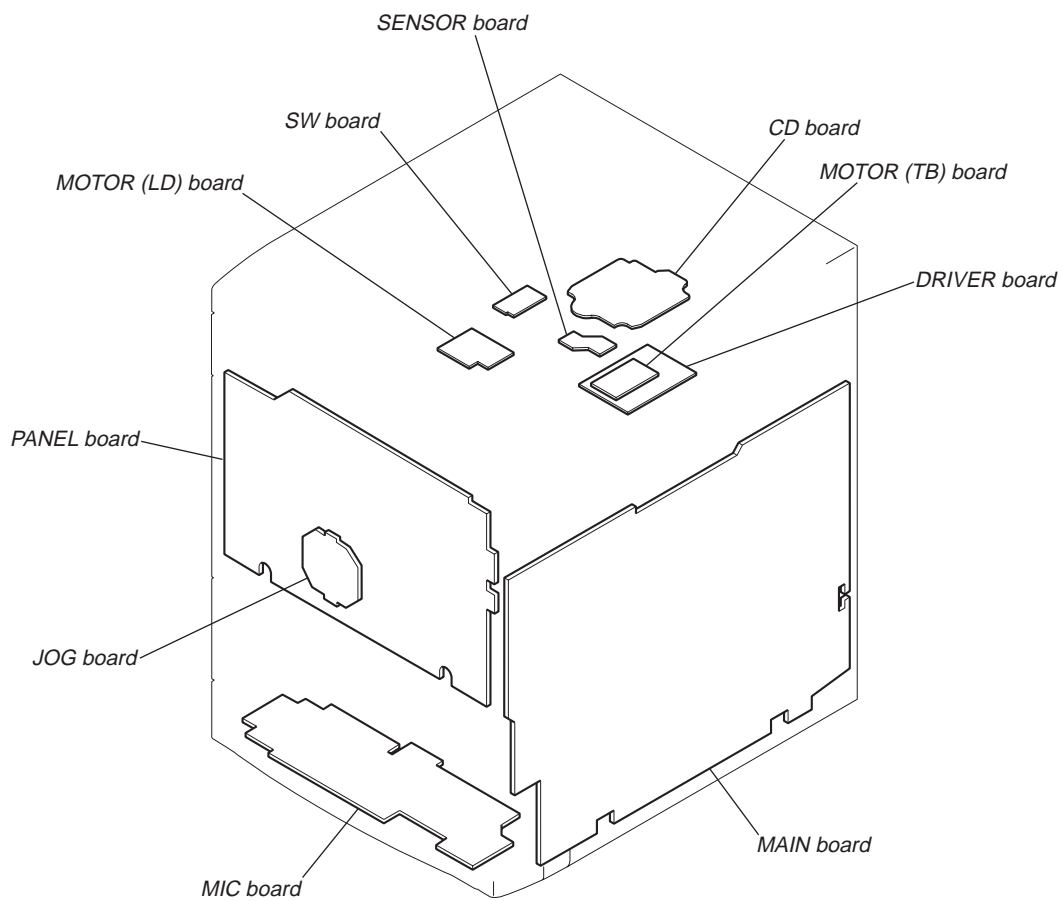
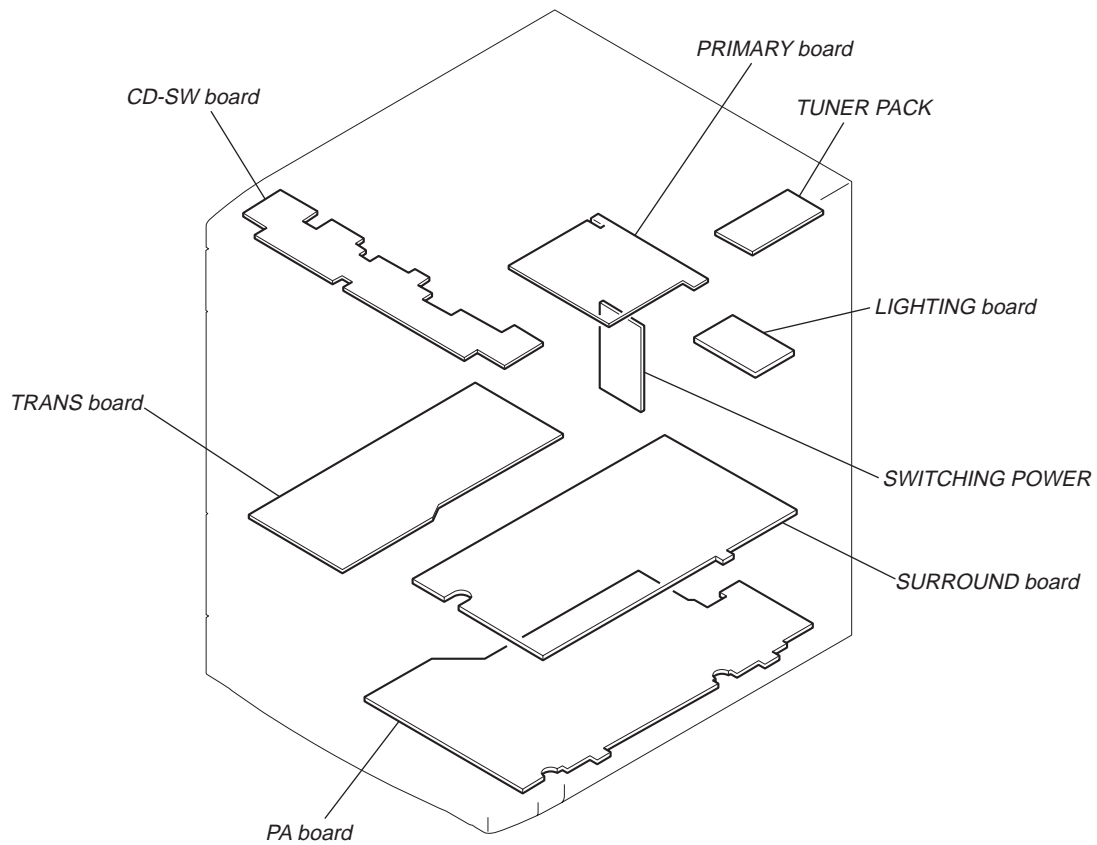
-  : parts extracted from the component side.
-  : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

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

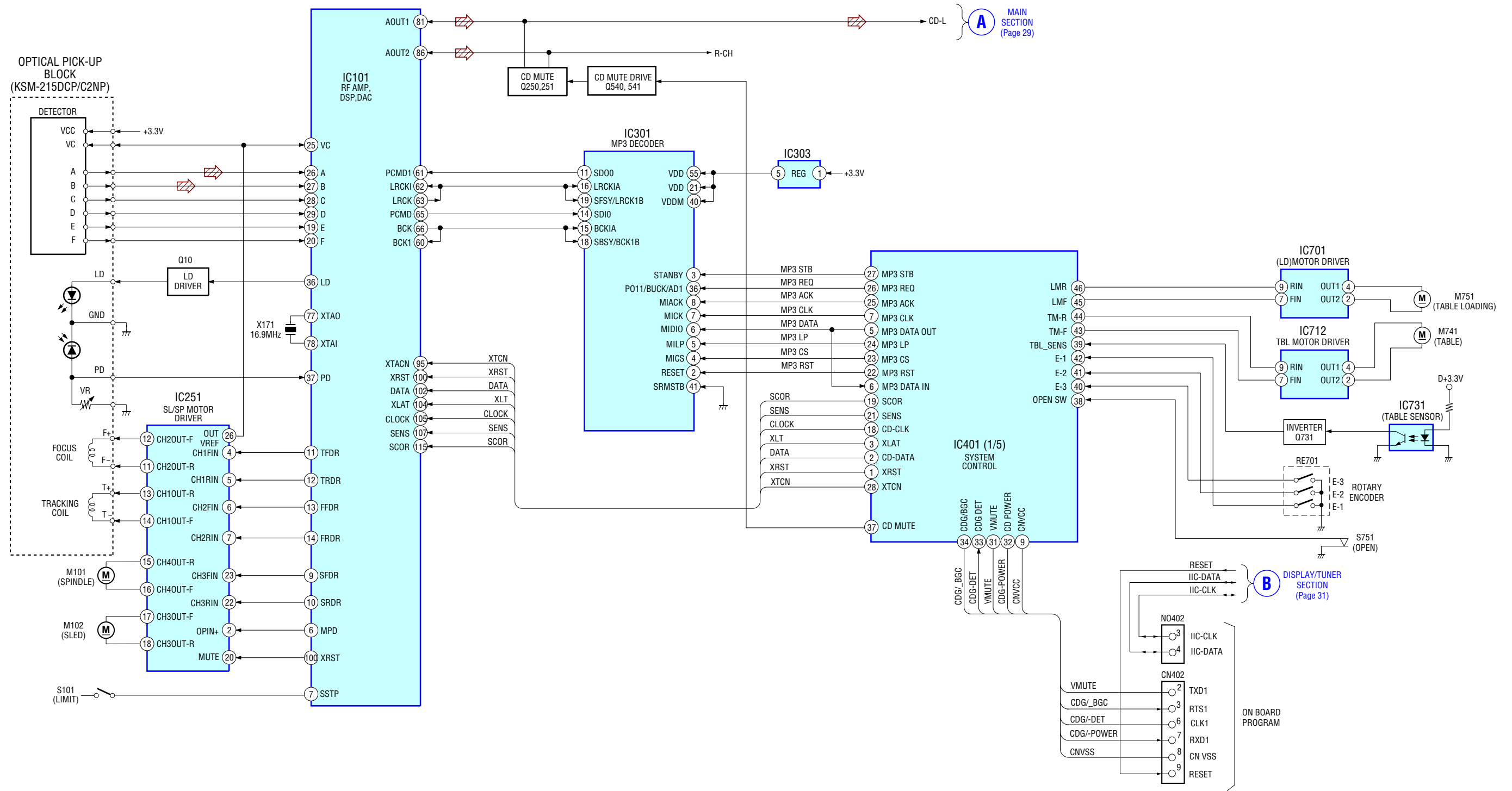
- Indication of transistor.



7-1. CIRCUIT BOARDS LOCATION

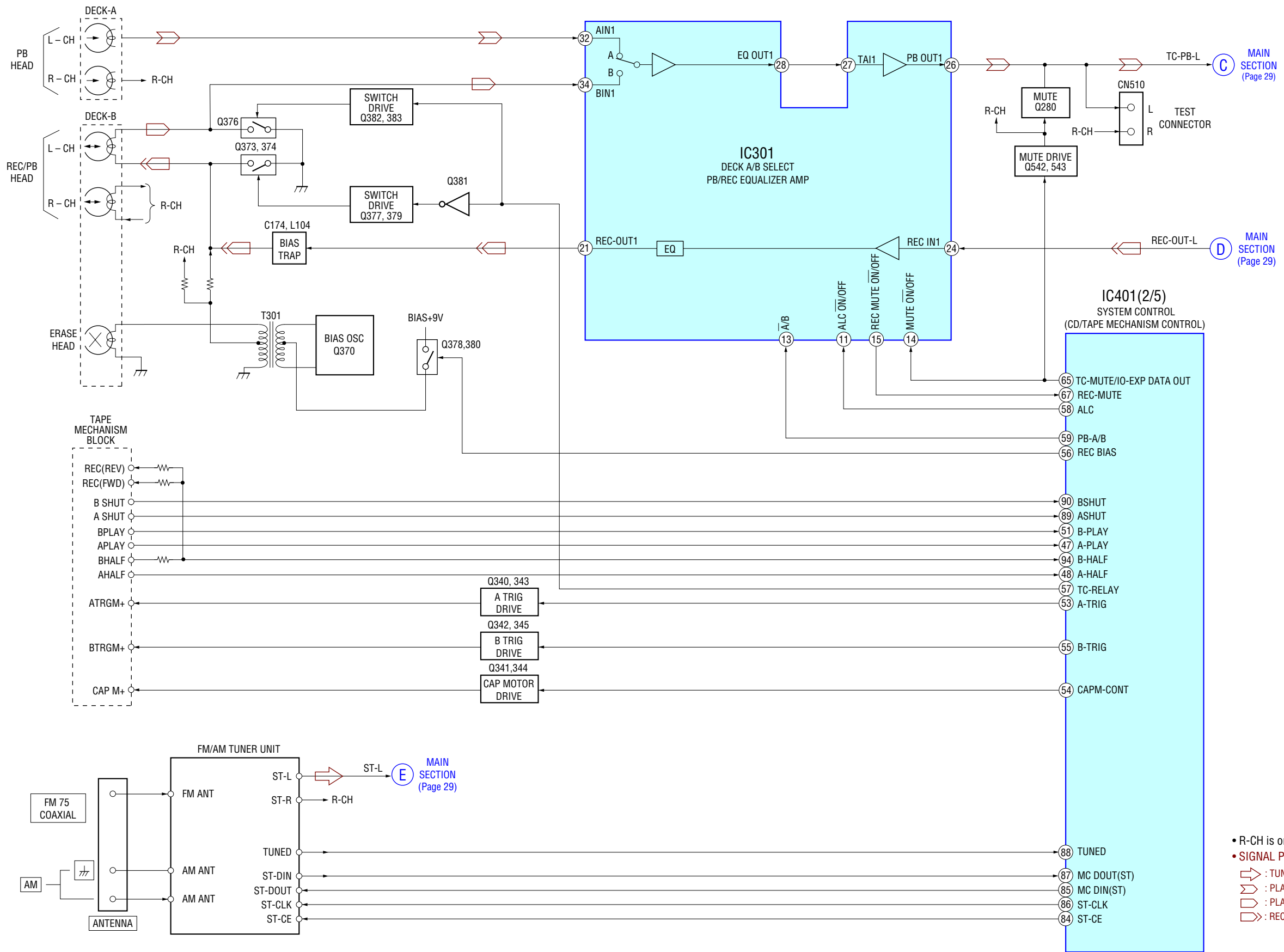


7-2. BLOCK DIAGRAM - CD SECTION -



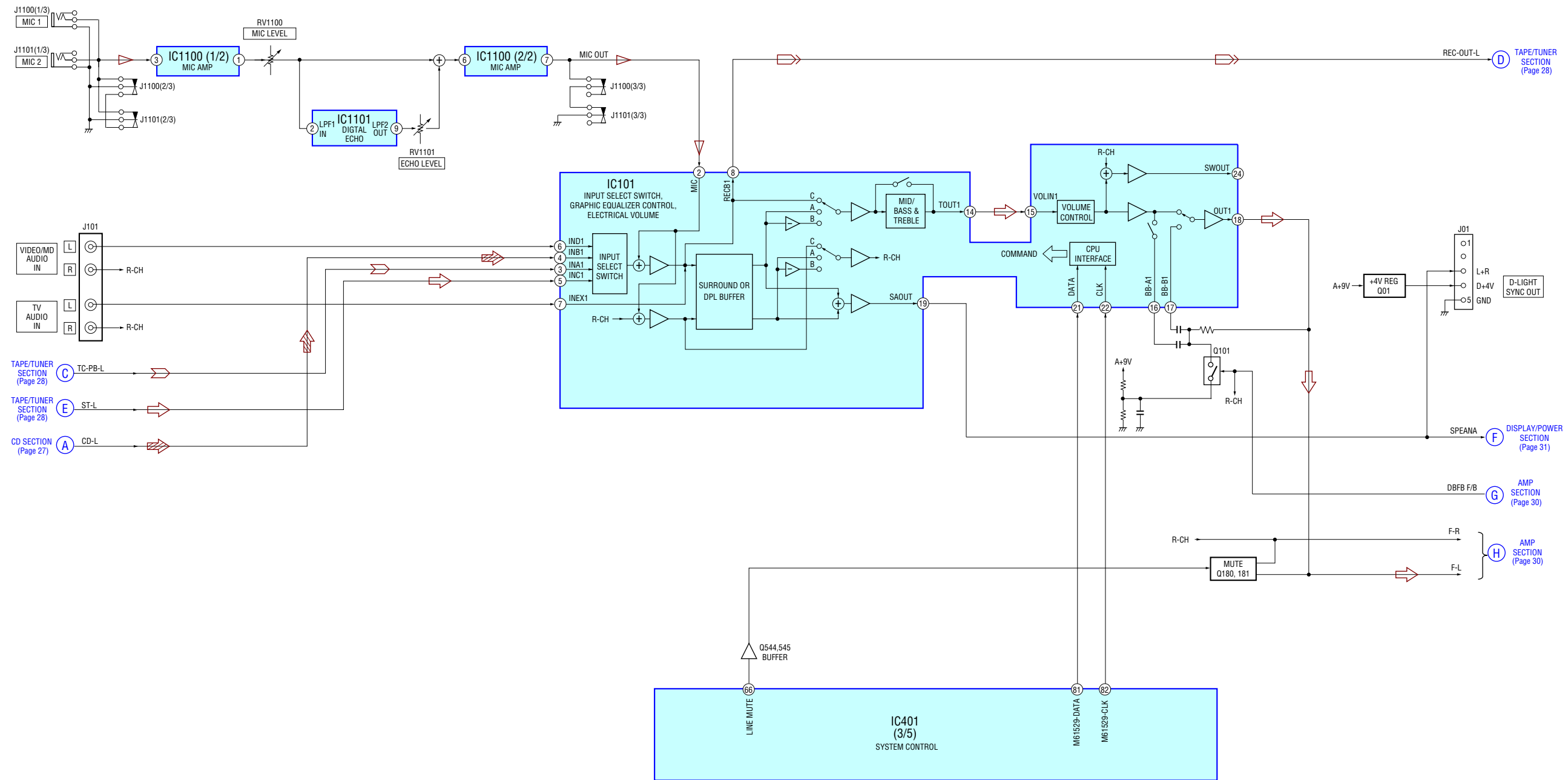
- R-CH is omitted due to same as L-CH.
- SIGNAL PATH
- ⇒ : CD

7-3. BLOCK DIAGRAM - TAPE/TUNER SECTION -



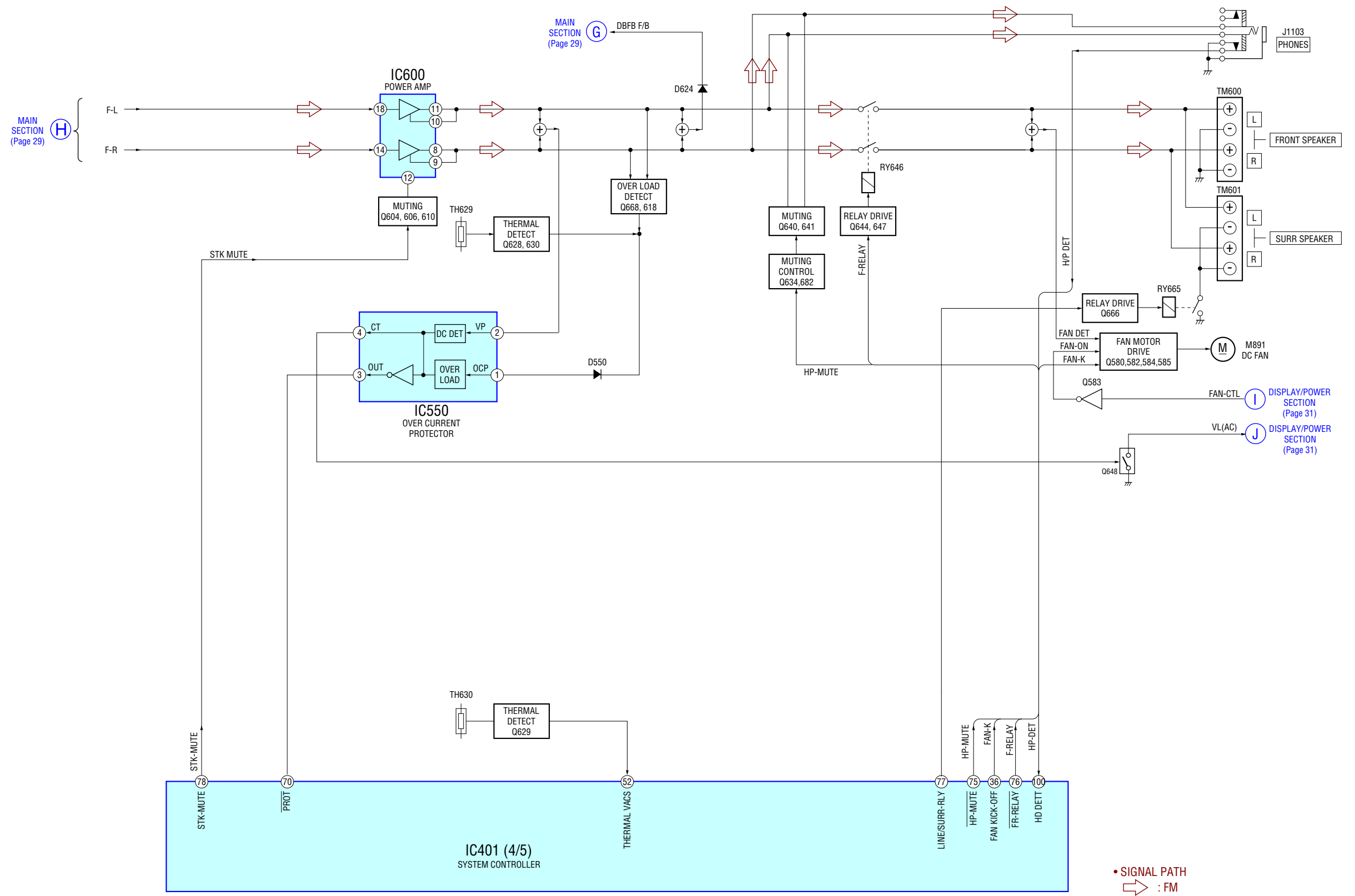
• R-CH is omitted due to same as L-CH.
 • SIGNAL PATH
 — : TUNER (FM/AM)
 == : PLAYBACK (DECK A)
 - - : PLAYBACK (DECK B)
 == : RECORD

7-4. BLOCK DIAGRAM - MAIN SECTION -

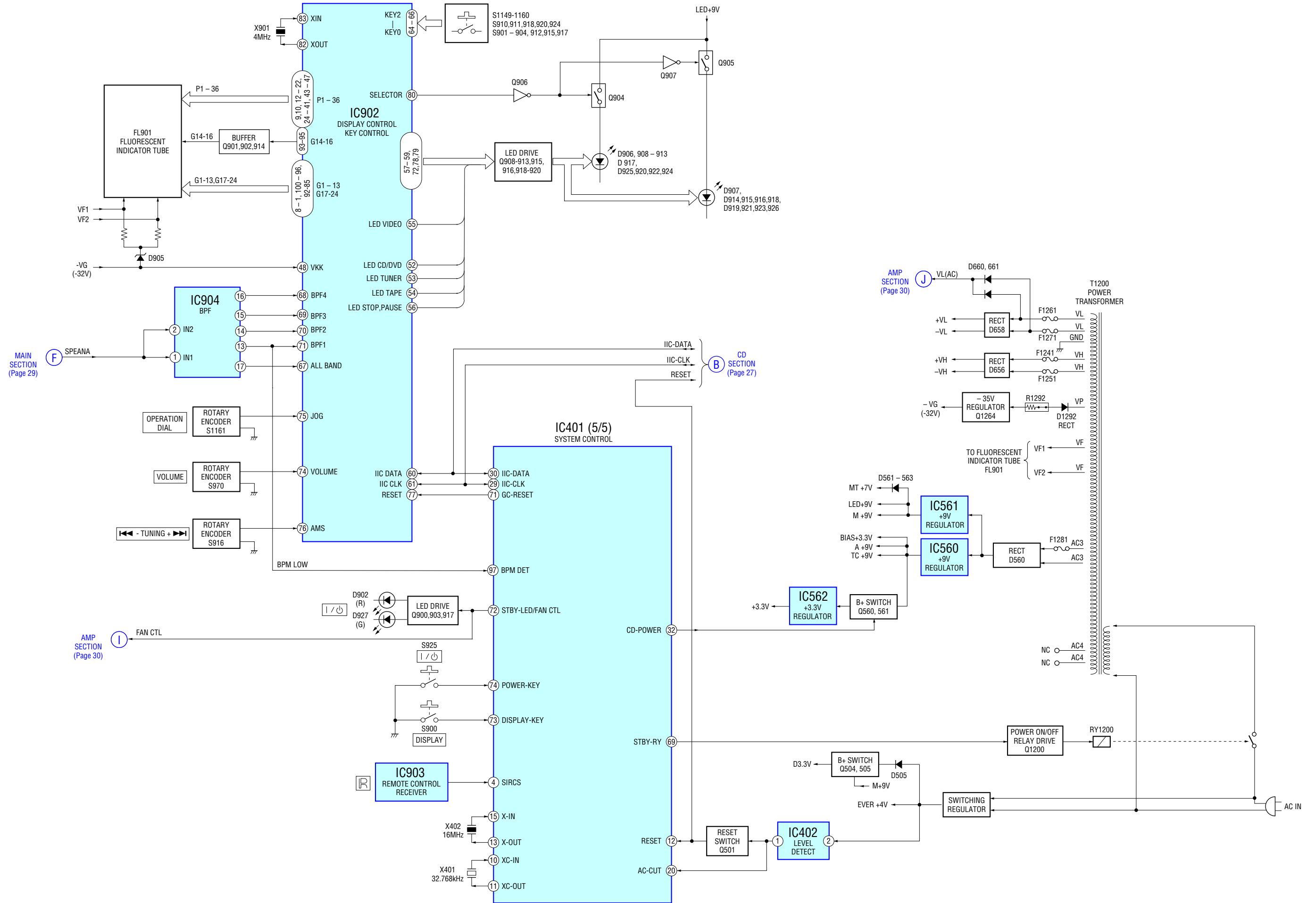


- R-CH is omitted due to same as L-CH.
- SIGNAL PATH
 - : TUNER (FM/AM)
 - : CD
 - : TAPE PLAY
 - : RECORD
 - ▽ : MIC INPUT

7-5. BLOCK DIAGRAM – AMP SECTION –




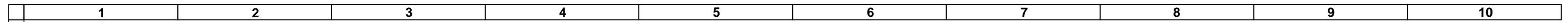
7-6. BLOCK DIAGRAM - DISPLAY/POWER SECTION -



7-7. PRINTED WIRING BOARD – CD BOARD –

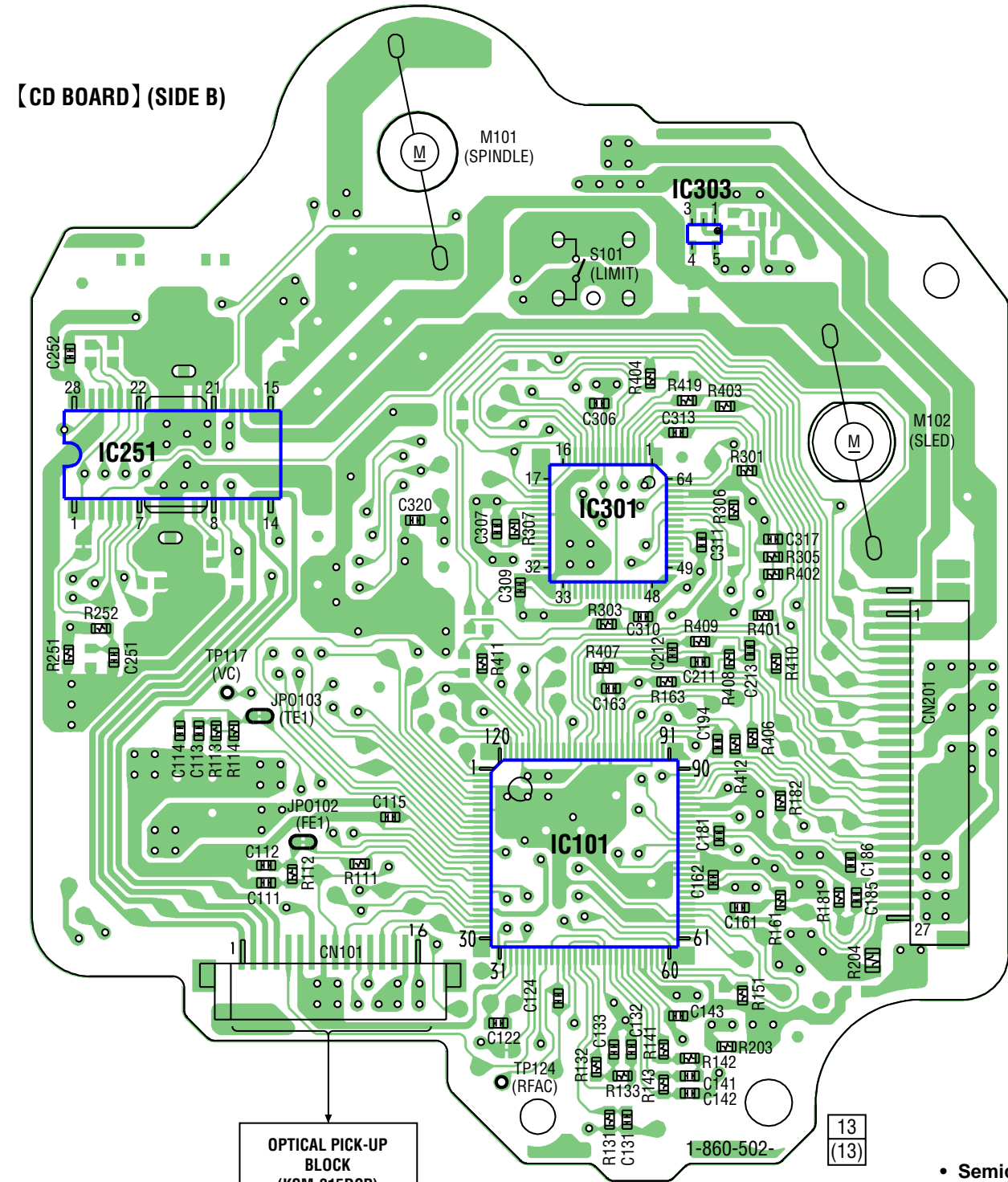
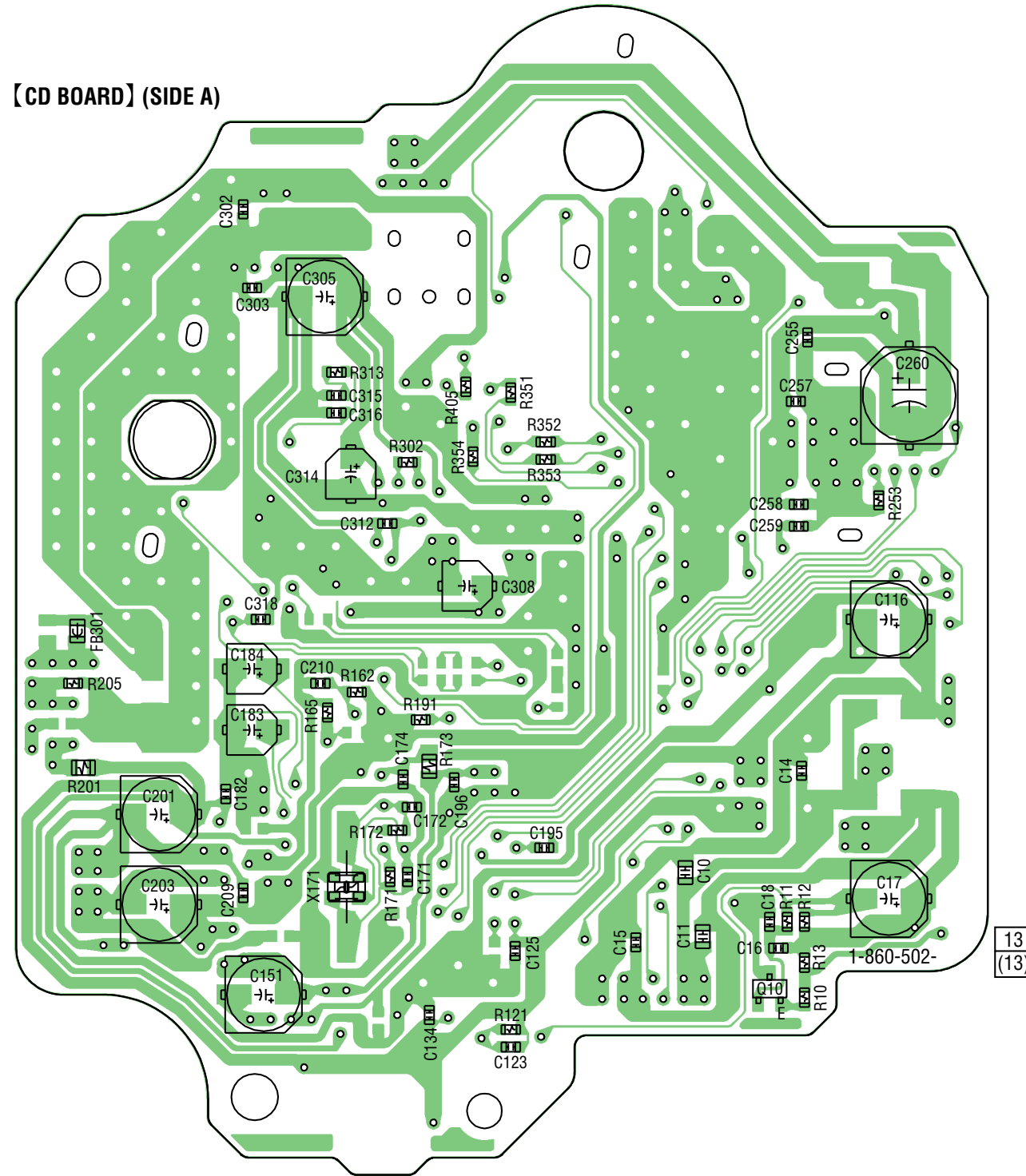
• See page 26 for Circuit Boards Location.

 : Uses unleaded solder.



【CD BOARD】(SIDE A)

【CD BOARD】(SIDE B)

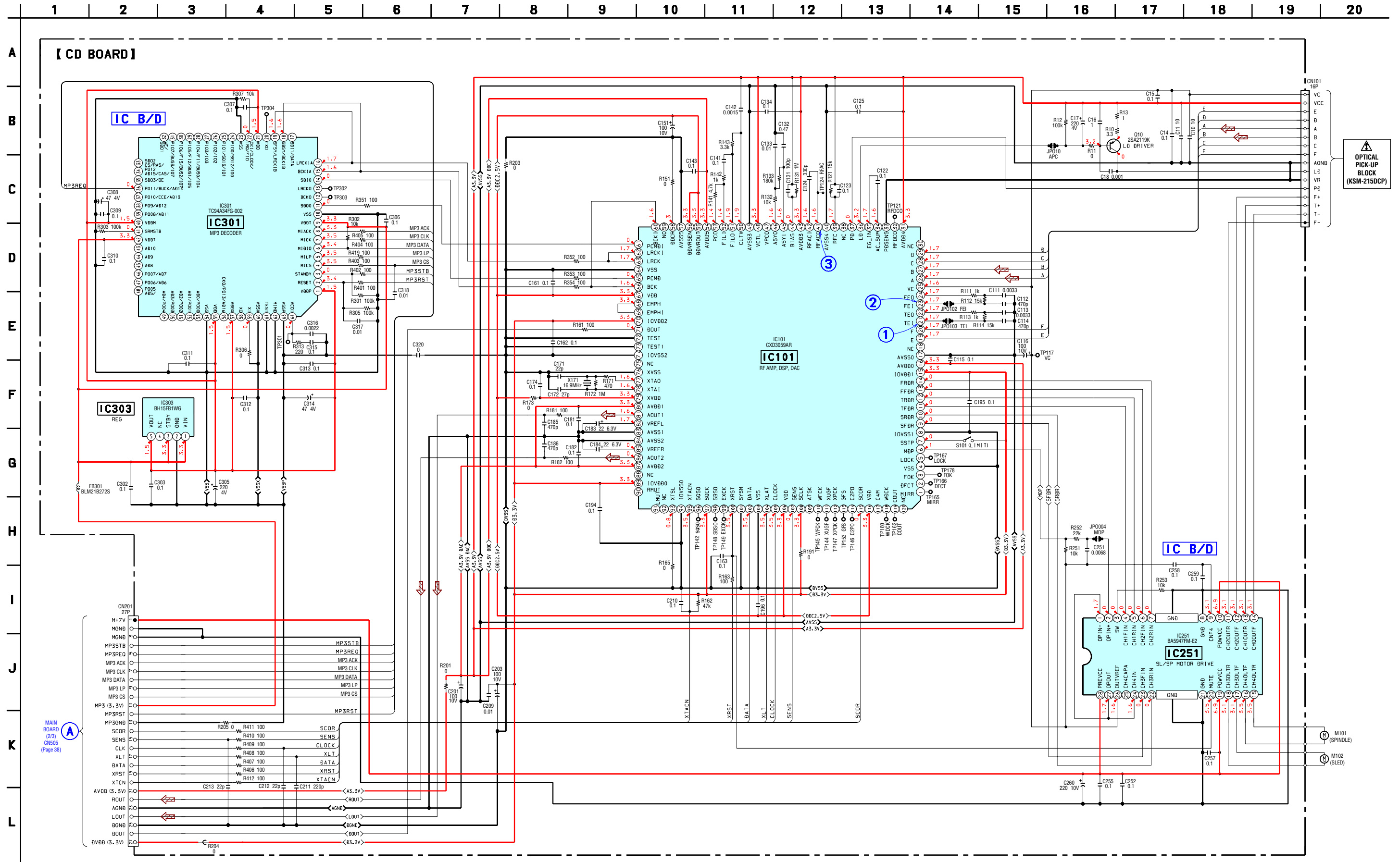


OPTICAL PICK-UP BLOCK (KSM-215DCP)

• Semiconductor Location

Ref. No.	Location
IC101	D-8
IC251	C-6
IC301	C-8
IC303	B-8
Q10	E-4

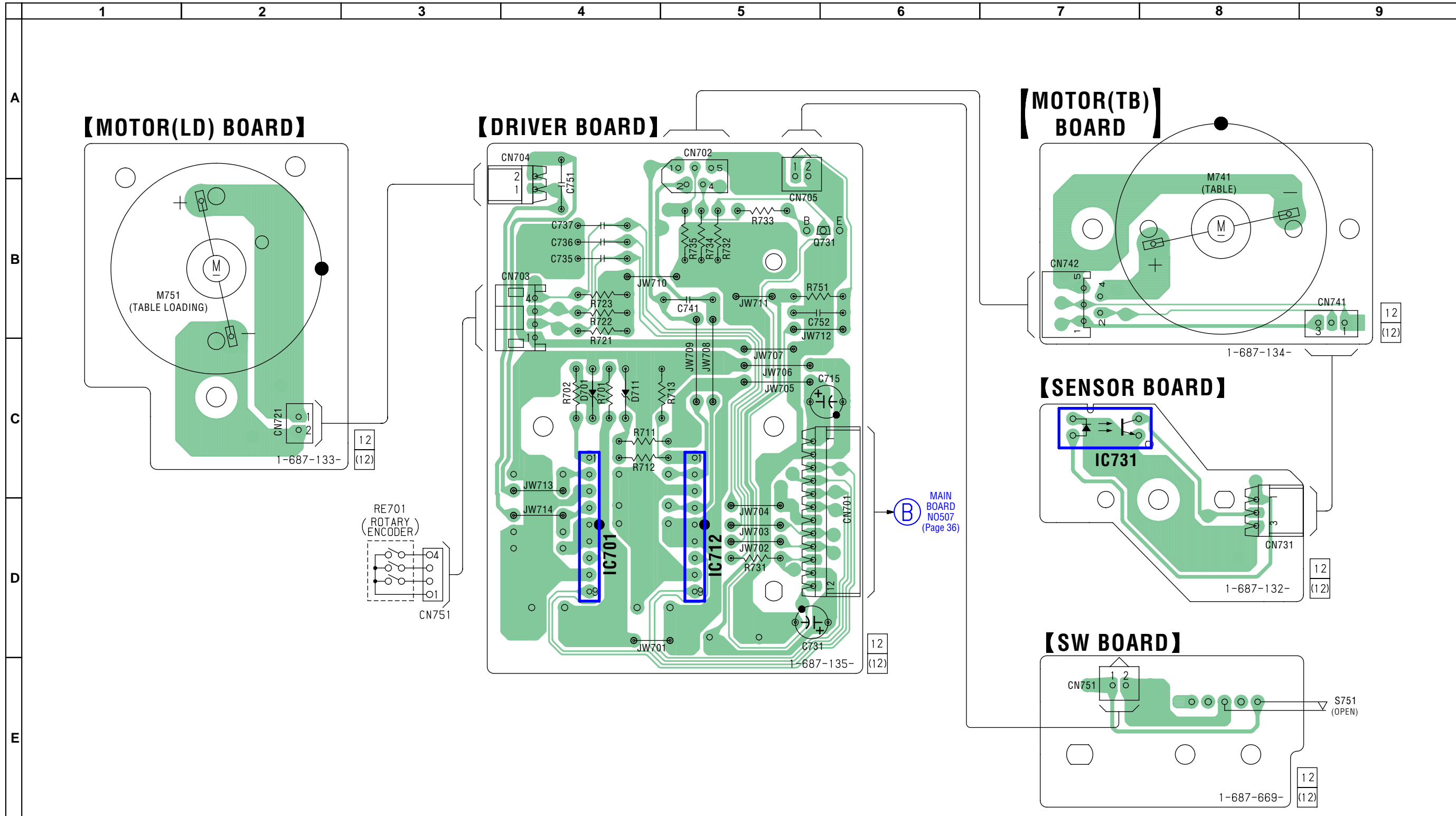
7-8. SCHEMATIC DIAGRAM – CD BOARD – • See pages 48 and 49 for IC Block Diagrams. • See page 48 for Waveforms. • See page 50 for IC Pin Function Description.



7-9. PRINTED WIRING BOARDS – CD MECHANISM BOARDS –

• See page 26 for Circuit Boards Location.

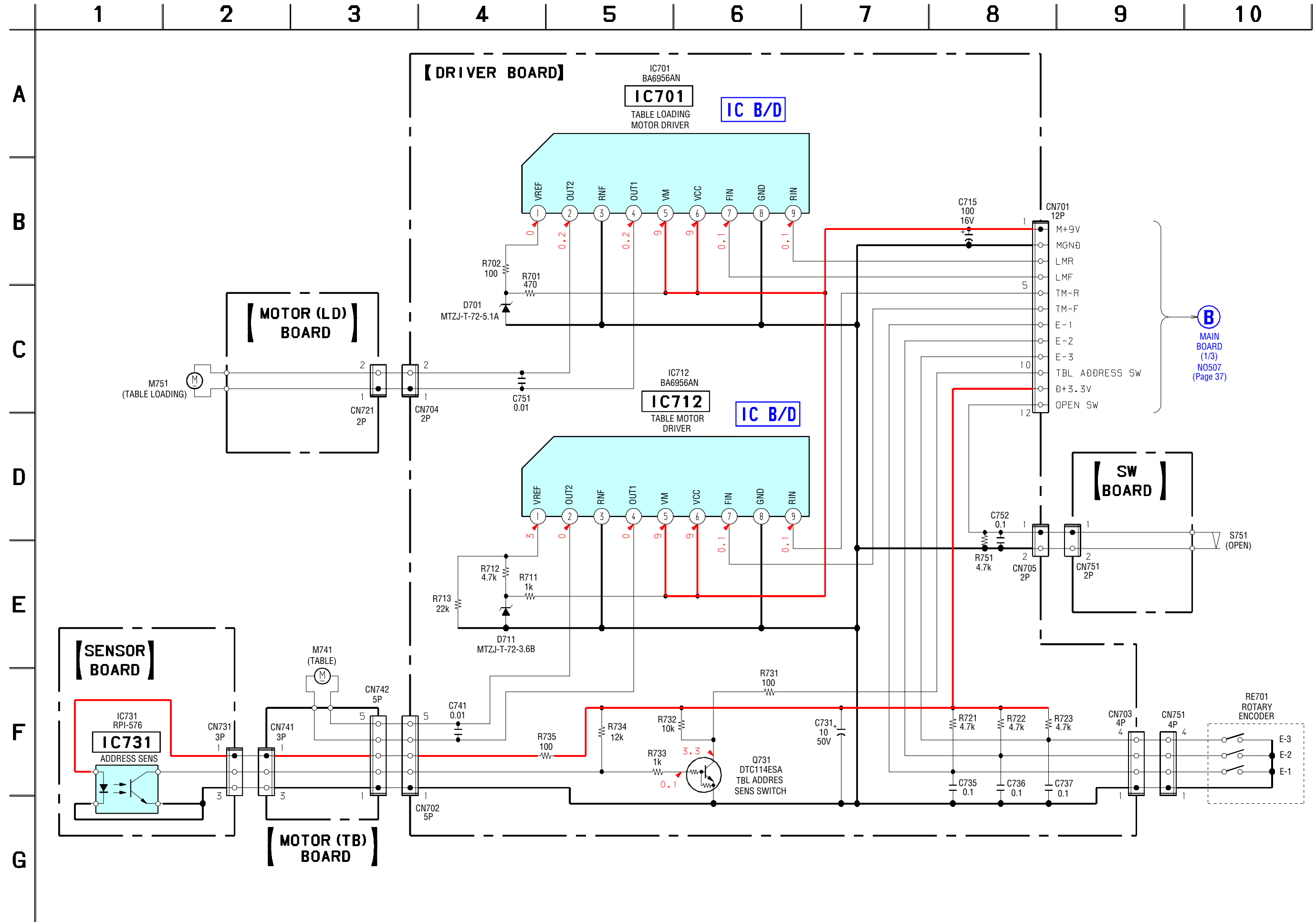
 : Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
D701	C-4
D711	C-4
IC701	D-4
IC712	D-5
IC731	C-7
Q731	B-6

7-10. SCHEMATIC DIAGRAM - CD MECHANISM BOARDS - • See page 48 for IC Block Diagrams.

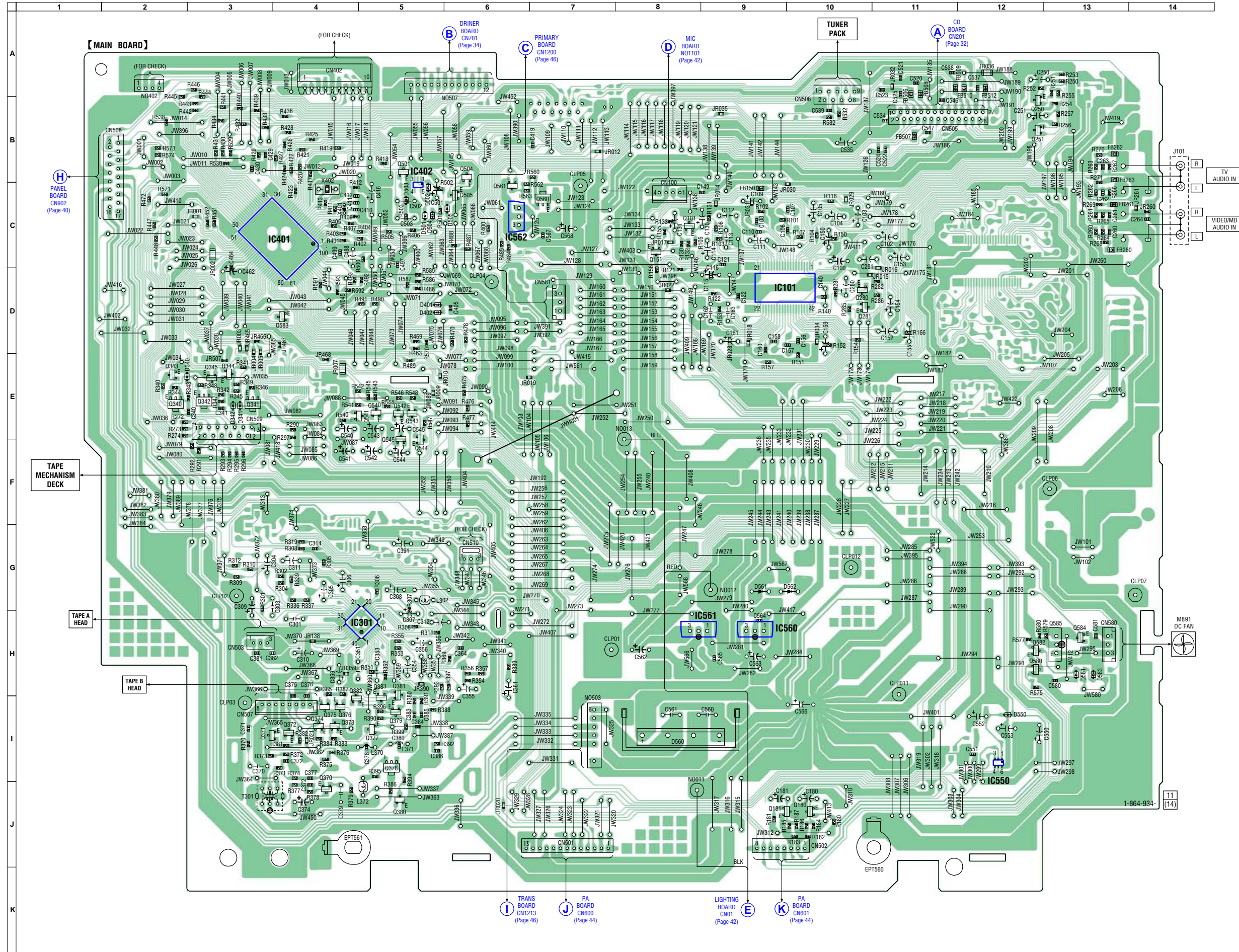


B
MAIN BOARD (1/3)
N0507
(Page 37)

7-11. PRINTED WIRING BOARD – MAIN BOARD –

• See page 26 for Circuit Boards Location.

 : Uses unleaded solder.

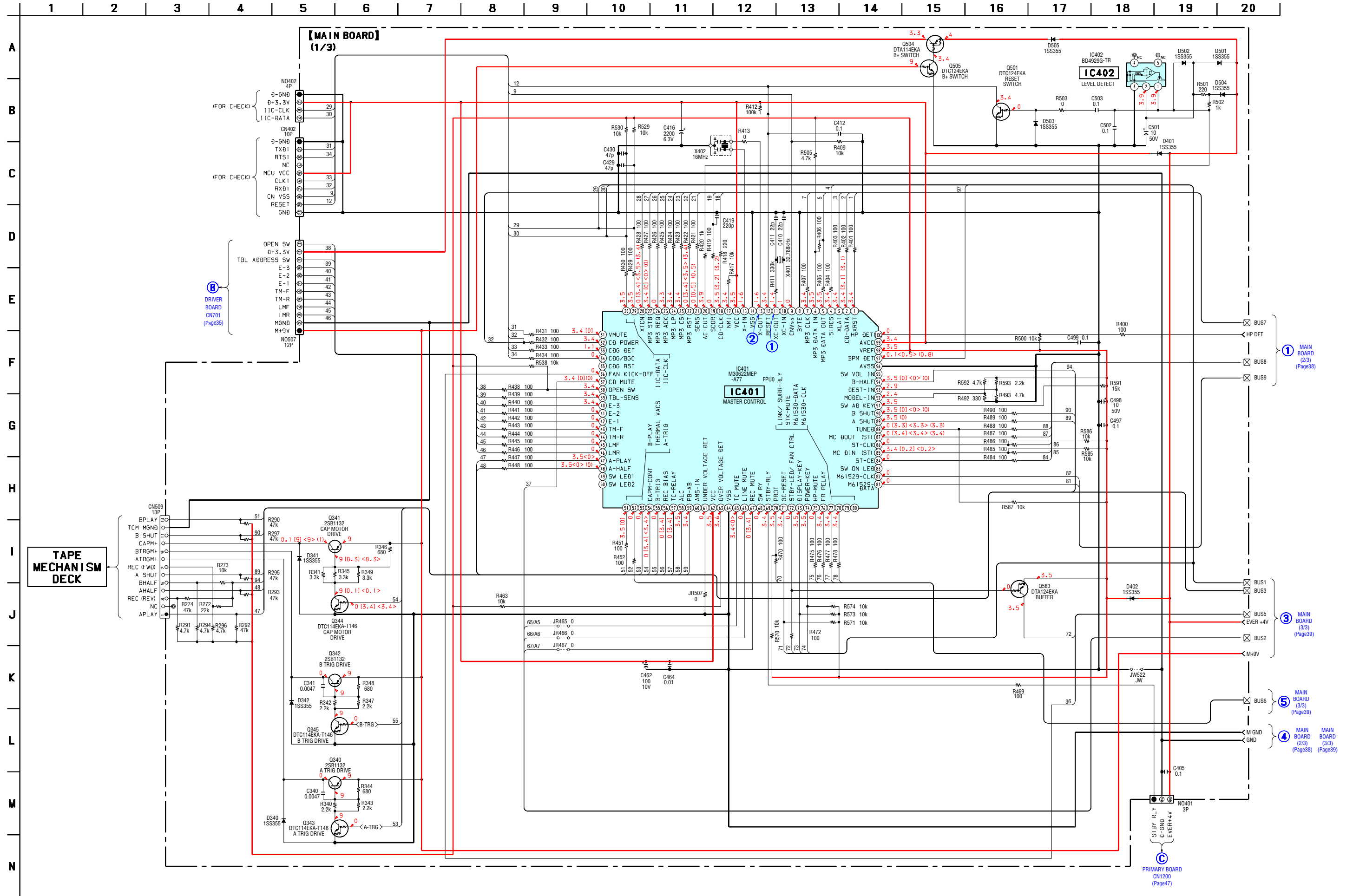


• Semiconductor Location

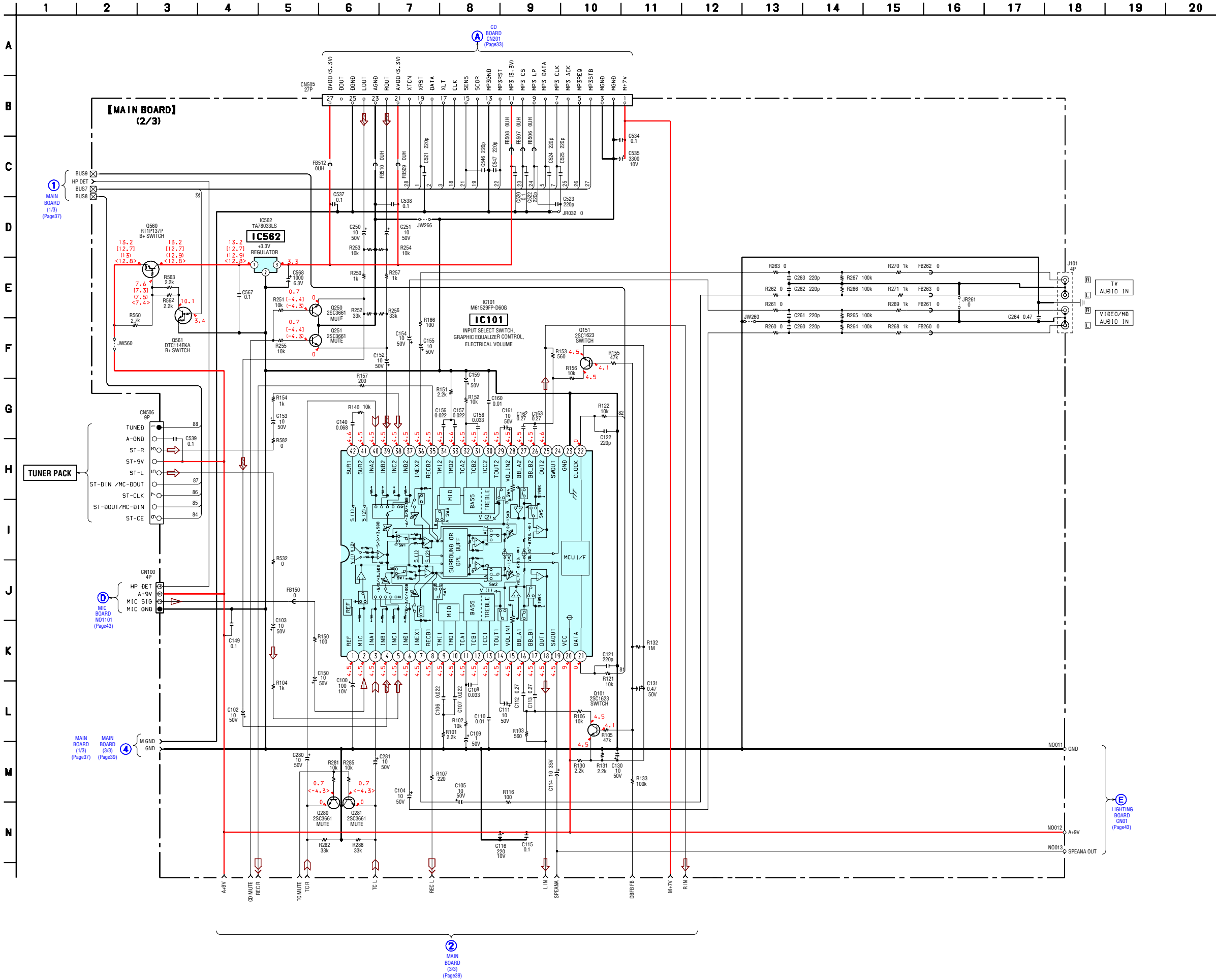
Ref. No.	Location	Ref. No.	Location
D340	E-3	Q341	E-3
D341	E-3	Q342	E-3
D342	E-3	Q343	E-2
D401	D-5	Q344	E-3
D402	D-5	Q345	E-3
D501	C-5	Q370	I-4
D502	C-5	Q371	I-3
D503	C-5	Q372	I-4
D504	C-5	Q373	I-4
D505	C-6	Q374	I-4
D550	I-12	Q375	I-4
D560	I-8	Q376	I-4
D561	G-9	Q377	I-5
D562	G-10	Q378	I-5
D581	H-13	Q379	I-5
D583	H-13	Q380	J-5
		Q381	H-5
		Q382	H-4
		Q383	H-5
IC101	D-9	Q501	B-5
IC401	H-5	Q504	B-6
IC402	C-4	Q505	C-6
IC550	I-12	Q540	E-5
IC560	H-9	Q541	E-5
IC561	H-9	Q542	E-5
IC562	C-6	Q543	E-5
		Q544	F-5
		Q545	F-5
		Q560	C-7
		Q561	C-6
		Q580	H-12
		Q582	H-12
		Q583	D-4
		Q584	H-13
		Q585	H-13

7-12. SCHEMATIC DIAGRAM – MAIN BOARD (1/3) –

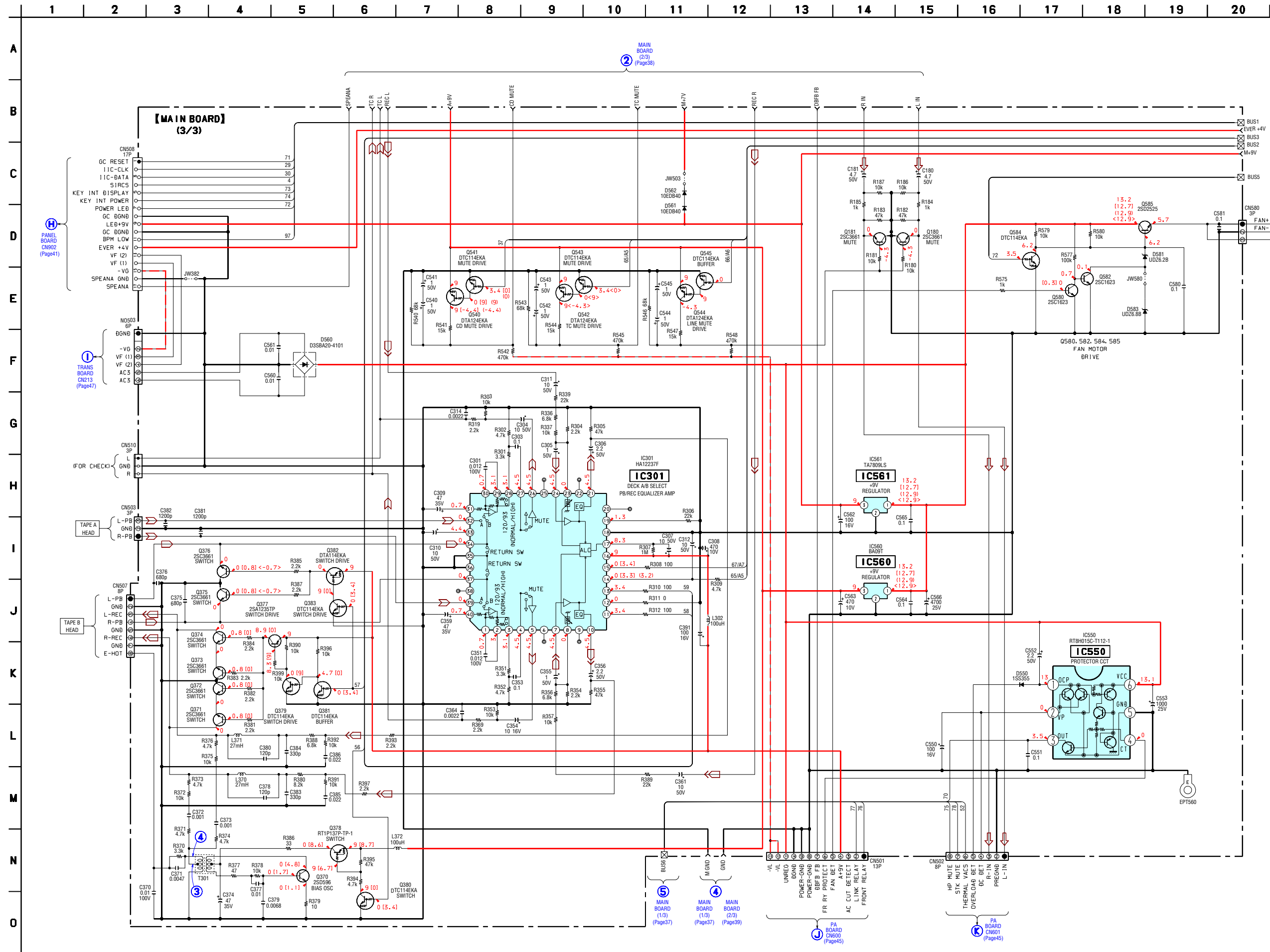
• See page 48 for Waveforms. • See page 53 for IC Pin Function Description.



7-13. SCHEMATIC DIAGRAM – MAIN BOARD (2/3) –



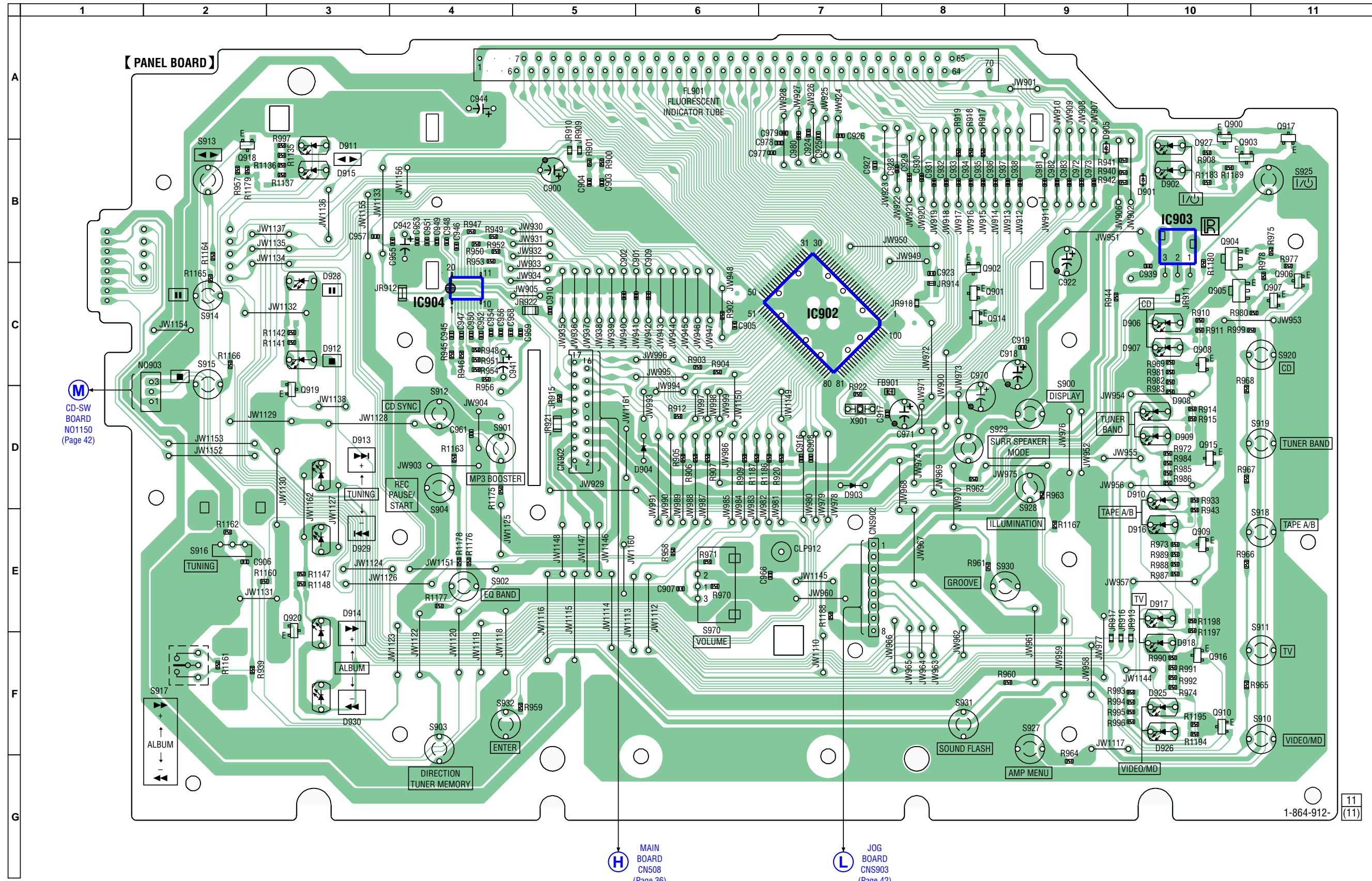
7-14. SCHEMATIC DIAGRAM – MAIN BOARD (3/3) – • See page 48 for Waveforms.



7-15. PRINTED WIRING BOARD – PANEL BOARD –

• See page 26 for Circuit Boards Location.

: Uses unleaded solder.



M
CD-SW
BOARD
NO1150
(Page 42)

H
MAIN
BOARD
CN508
(Page 36)

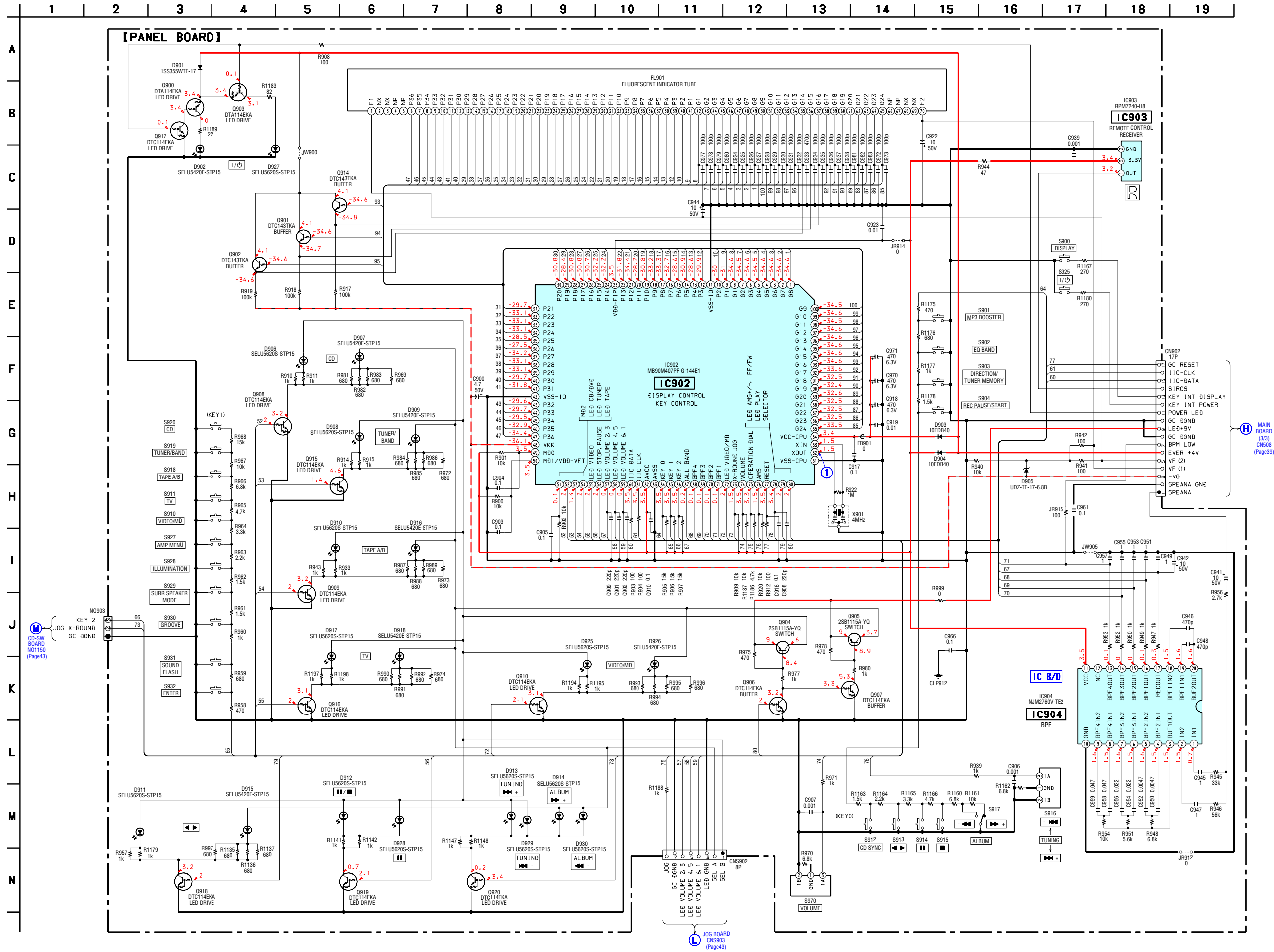
L
JOG
BOARD
CNS903
(Page 42)

• Semiconductor Location


Ref. No.	Location
D901	B-10
D902	B-10
D903	D-7
D904	D-6
D905	B-9
D906	C-10
D907	C-10
D908	D-10
D909	D-10
D910	D-10
D911	B-3
D912	C-3
D913	D-3
D914	E-3
D915	B-3
D916	E-10
D917	E-10
D918	F-10
D925	F-10
D926	F-10
D927	B-10
D928	C-3
D929	E-3
D930	F-3
IC902	C-7
IC903	B-10
IC904	C-4
Q900	A-10
Q901	C-8
Q902	C-8
Q903	B-10
Q904	B-10
Q905	C-10
Q906	C-11
Q907	C-11
Q908	C-10
Q909	E-10
Q910	F-10
Q914	C-8
Q915	D-10
Q916	F-10
Q917	A-11
Q918	B-2
Q919	D-3
Q920	E-3

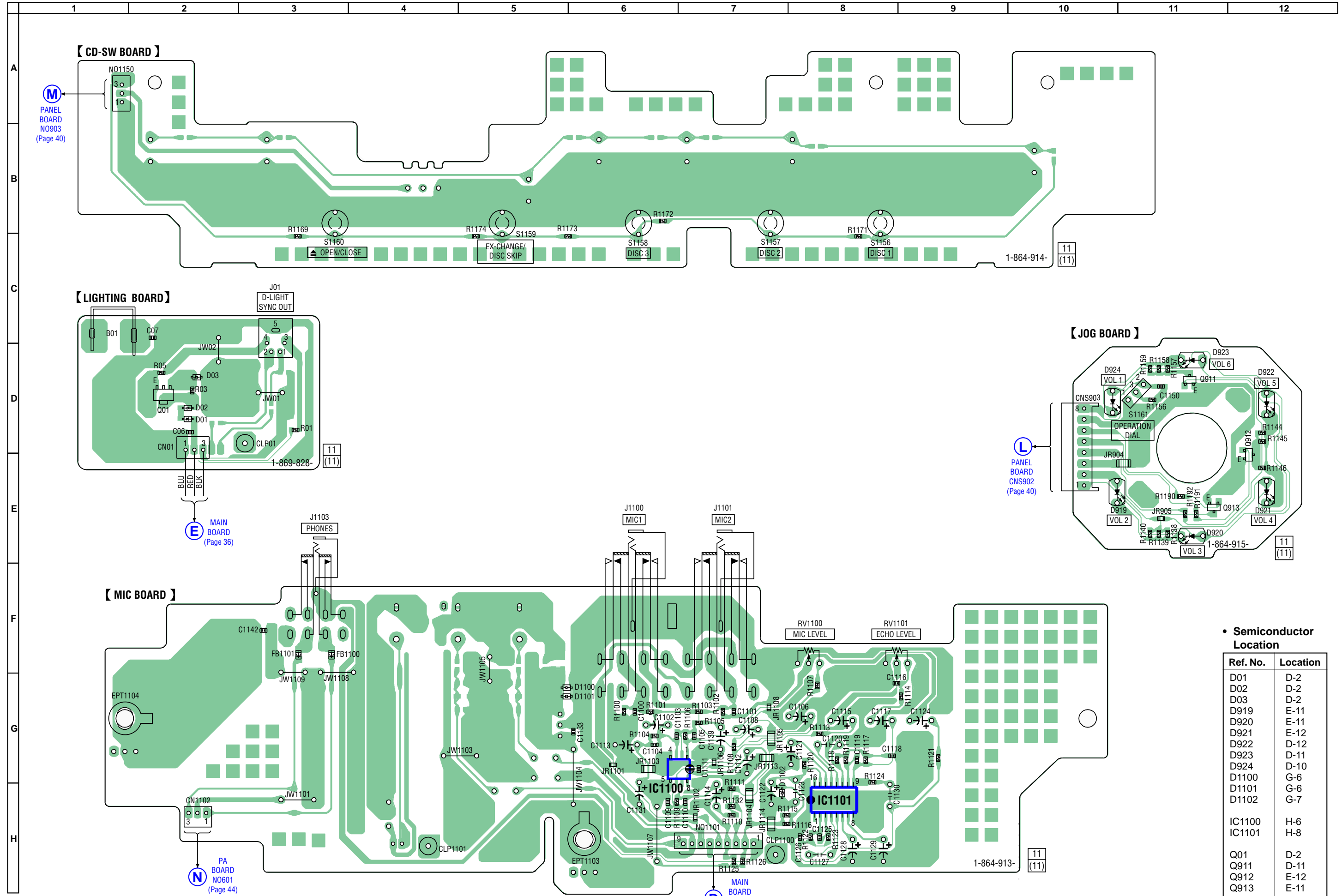
11
(11)

7-16. SCHEMATIC DIAGRAM – PANEL BOARD – • See page 48 for IC Block Diagrams. • See page 48 for Waveforms. • See page 55 for IC Pin Function Description.



7-17. PRINTED WIRING BOARDS – CD-SW, JOG, MIC, LIGHTING BOARDS – • See page 26 for Circuit Boards Location.

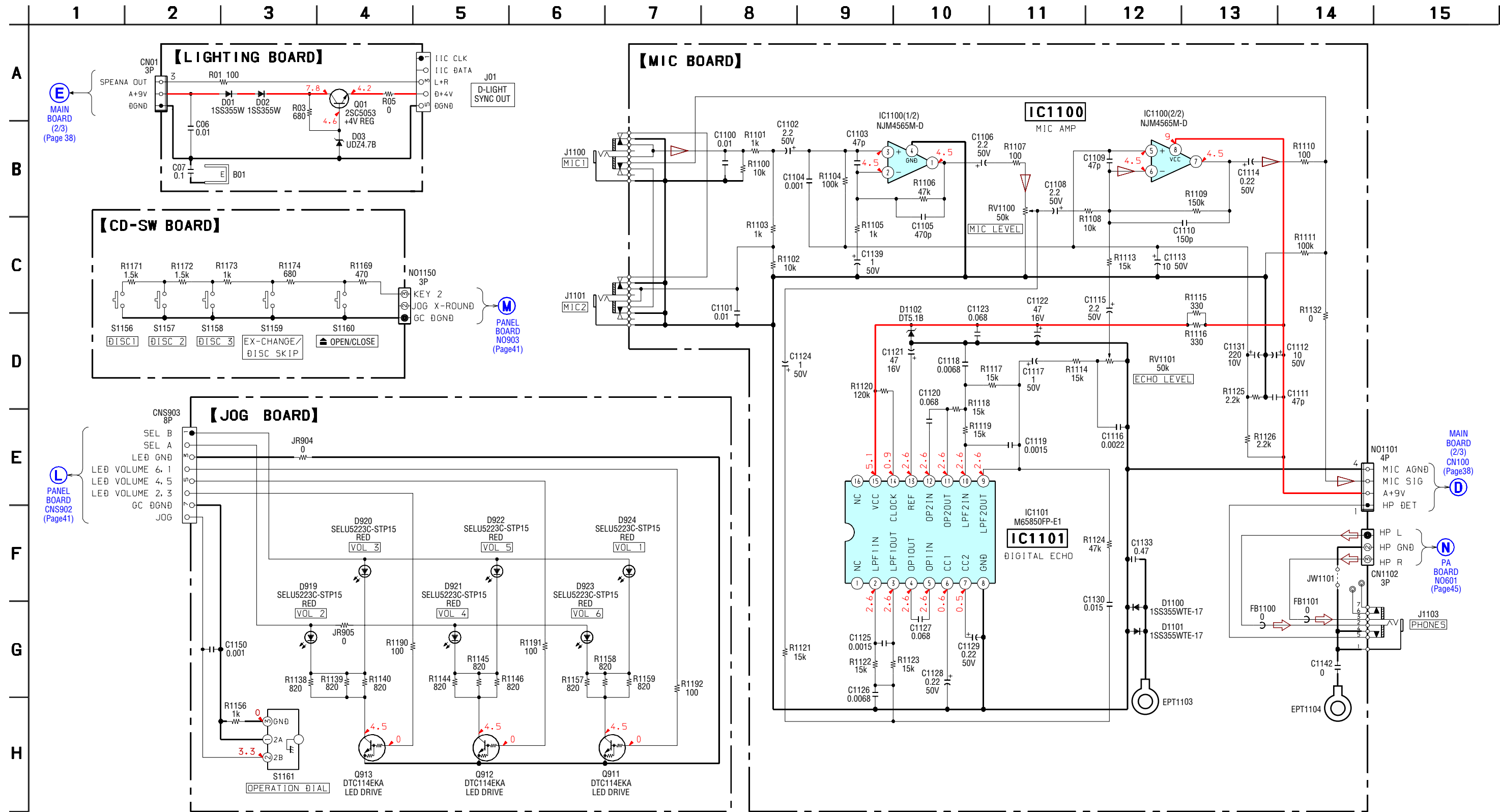
 : Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
D01	D-2
D02	D-2
D03	D-2
D919	E-11
D920	E-11
D921	E-12
D922	D-12
D923	D-11
D924	D-10
D1100	G-6
D1101	G-6
D1102	G-7
IC1100	H-6
IC1101	H-8
Q01	D-2
Q911	D-11
Q912	E-12
Q913	E-11

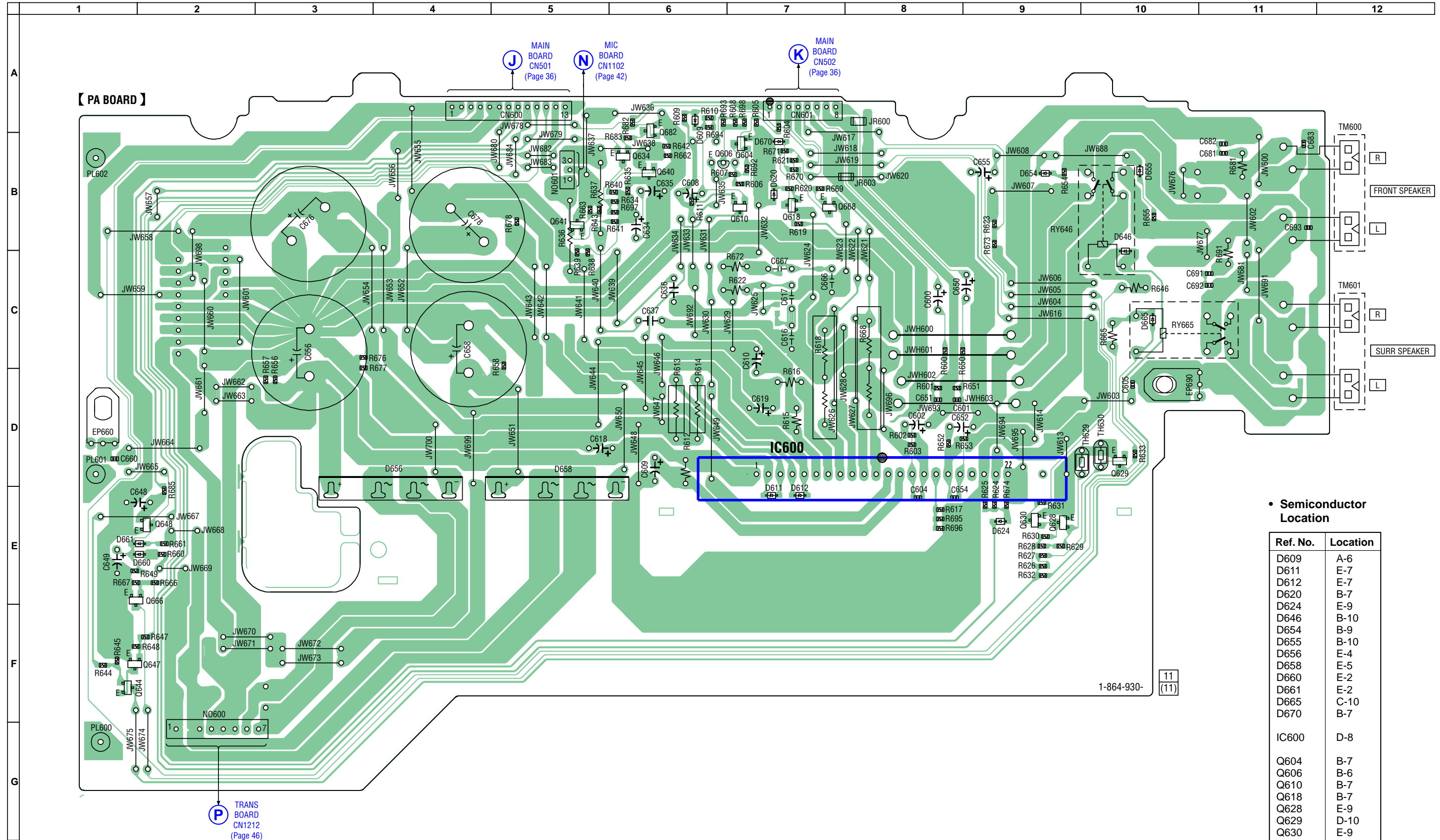
7-18. SCHEMATIC DIAGRAM – CD-SW, JOG, MIC, LIGHTING BOARDS –



7-19. PRINTED WIRING BOARD – PA BOARD –

• See page 26 for Circuit Boards Location.

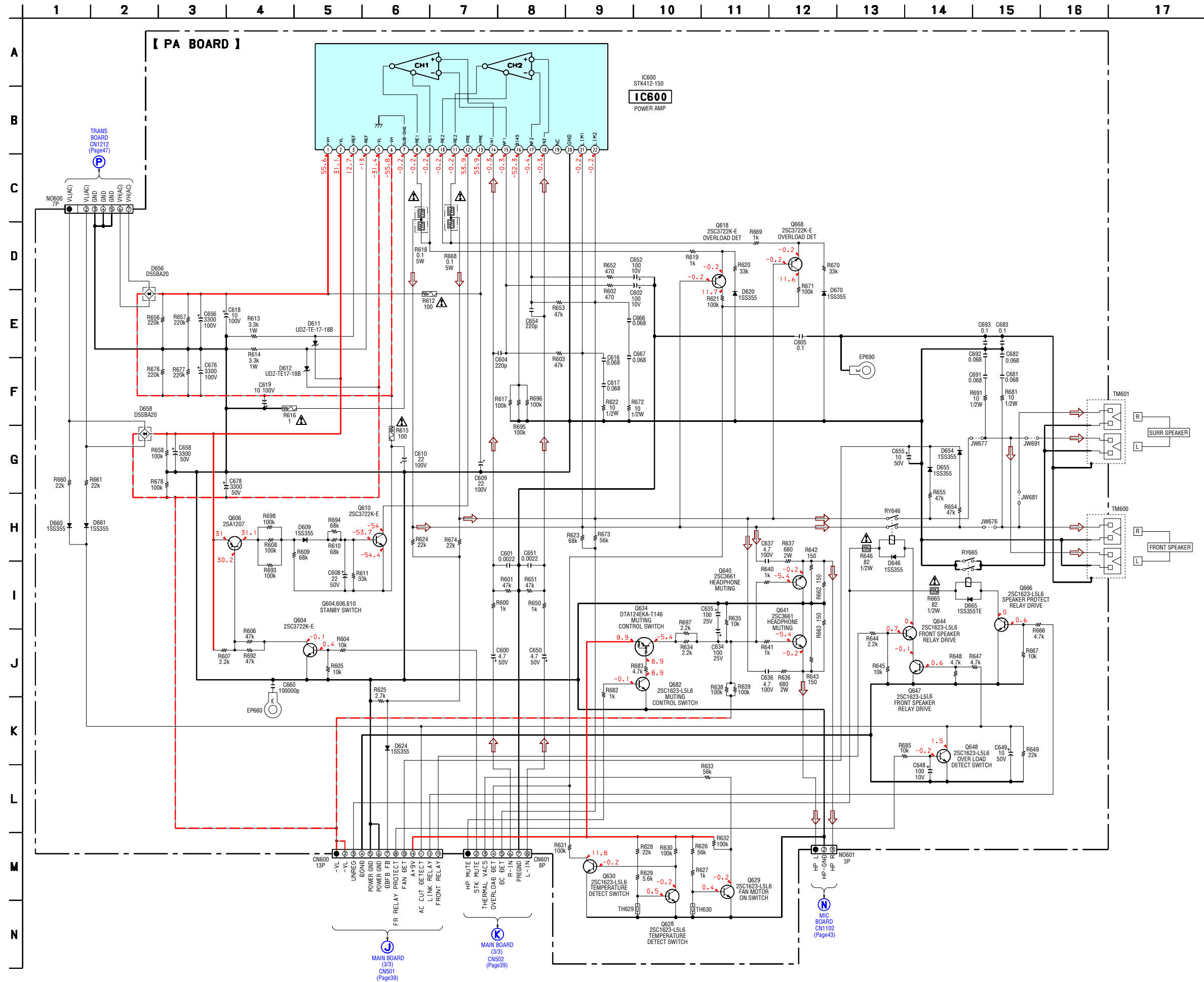
 : Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
D609	A-6
D611	E-7
D612	E-7
D620	B-7
D624	E-9
D646	B-10
D654	B-9
D655	B-10
D656	E-4
D658	E-5
D660	E-2
D661	E-2
D665	C-10
D670	B-7
IC600	D-8
Q604	B-7
Q606	B-6
Q610	B-7
Q618	B-7
Q628	E-9
Q629	D-10
Q630	E-9
Q634	B-6
Q640	B-6
Q641	B-5
Q644	F-1
Q647	F-1
Q648	E-2
Q666	E-1
Q668	B-7
Q682	A-6

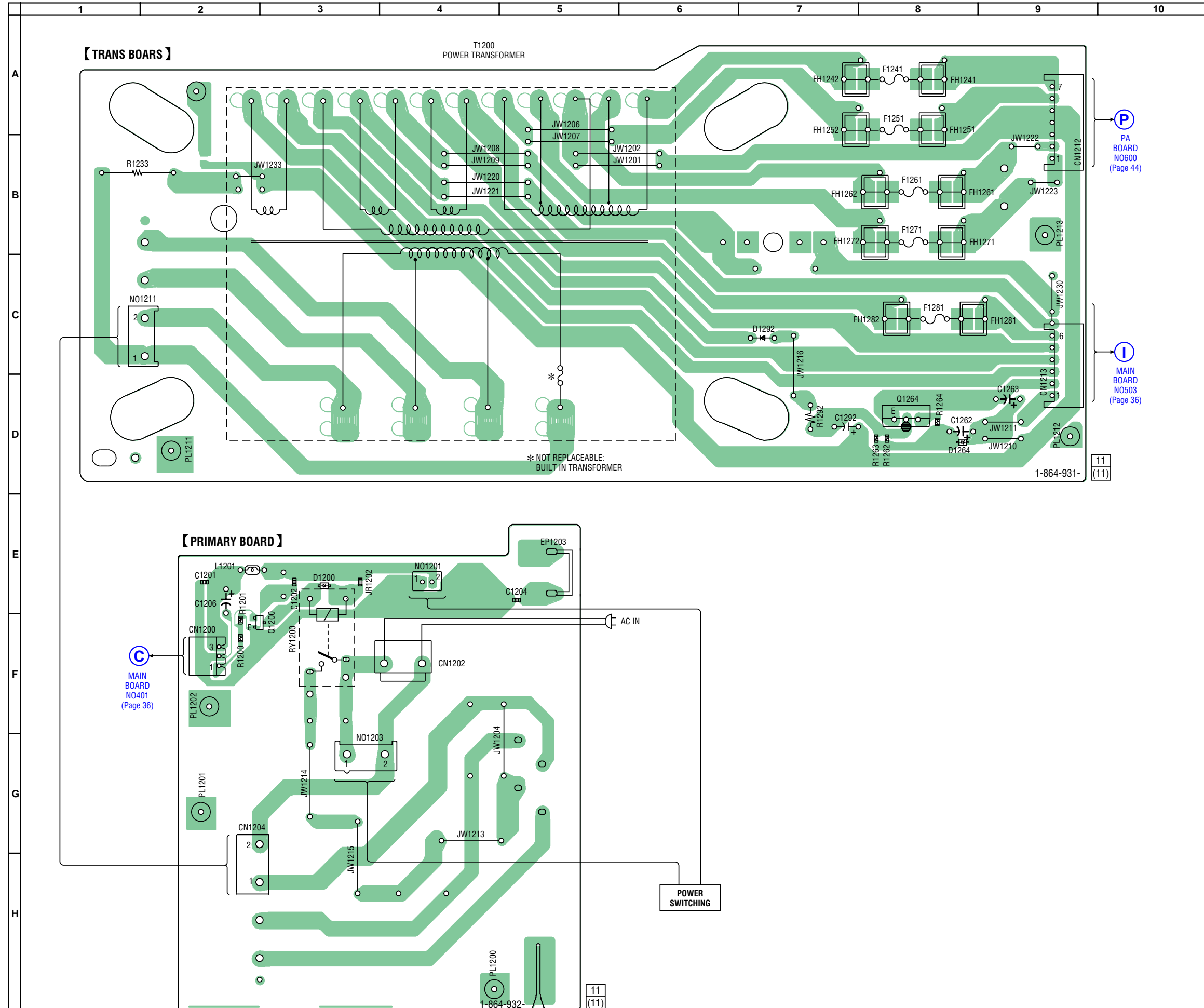
7-20. SCHEMATIC DIAGRAM - PA BOARD -



7-21. PRINTED WIRING BOARDS – TRANS, PRIMARY BOARDS –

• See page 26 for Circuit Boards Location.

 : Uses unleaded solder.



P
PA BOARD
NO600
(Page 44)

I
MAIN BOARD
NO503
(Page 36)

11
(11)

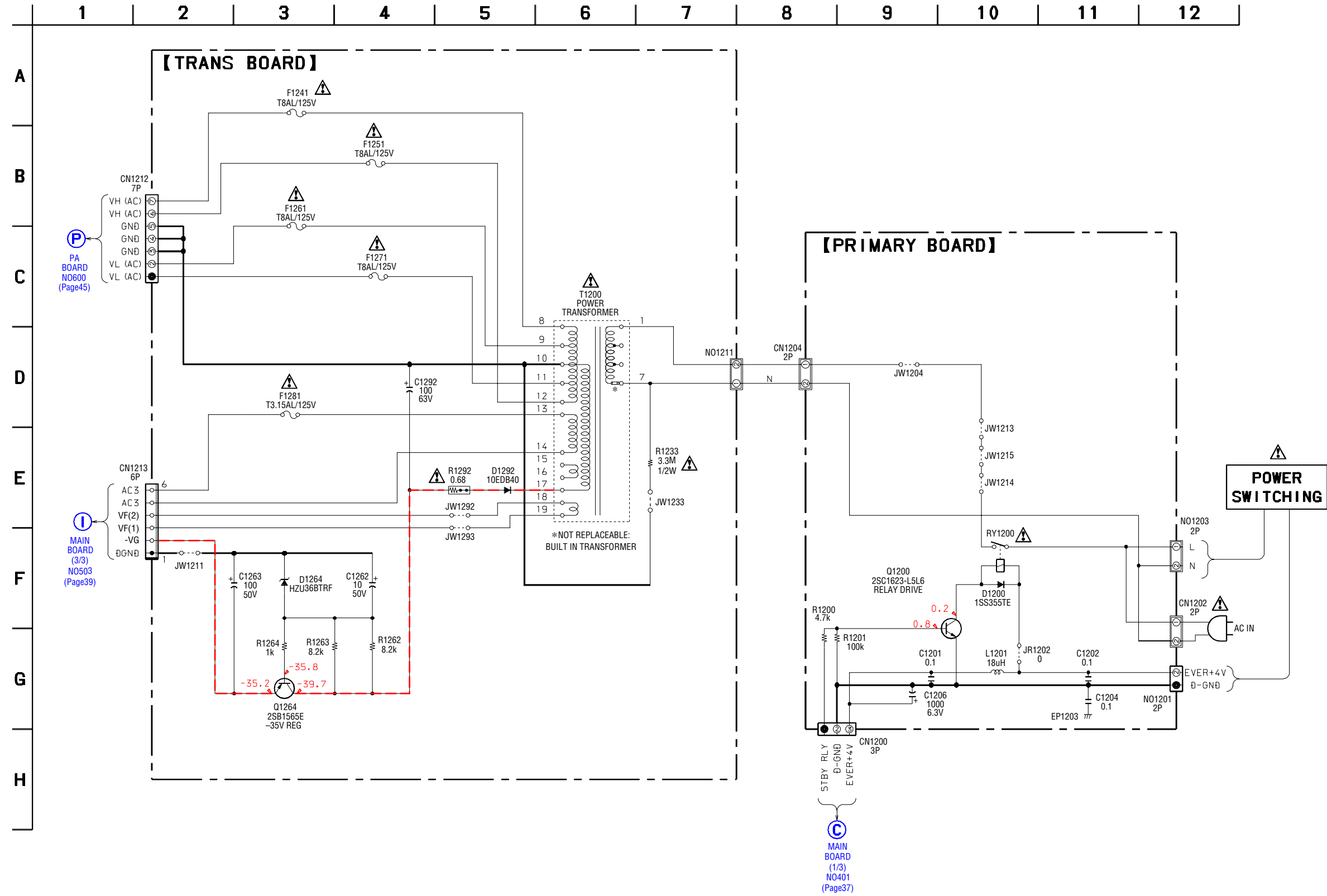
C
MAIN BOARD
NO401
(Page 36)

11
(11)

• Semiconductor Location

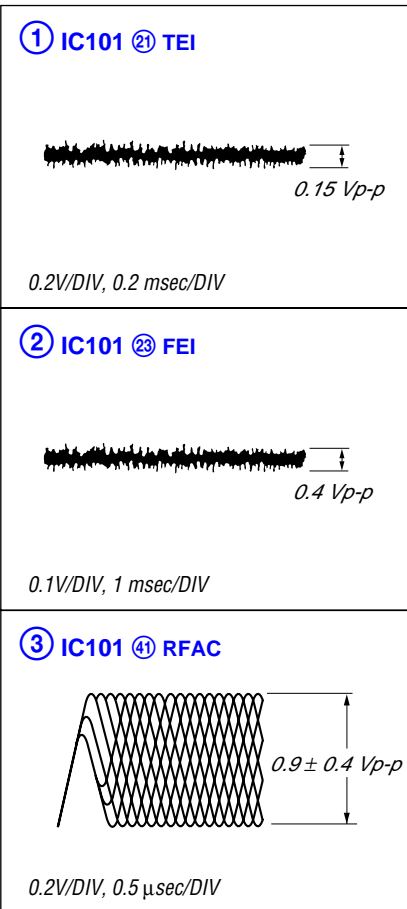
Ref. No.	Location
D1200	E-3
D1264	D-8
D1292	C-7
Q1200	F-3
Q1264	D-8

7-22. SCHEMATIC DIAGRAM – TRANS, PRIMARY BOARDS –

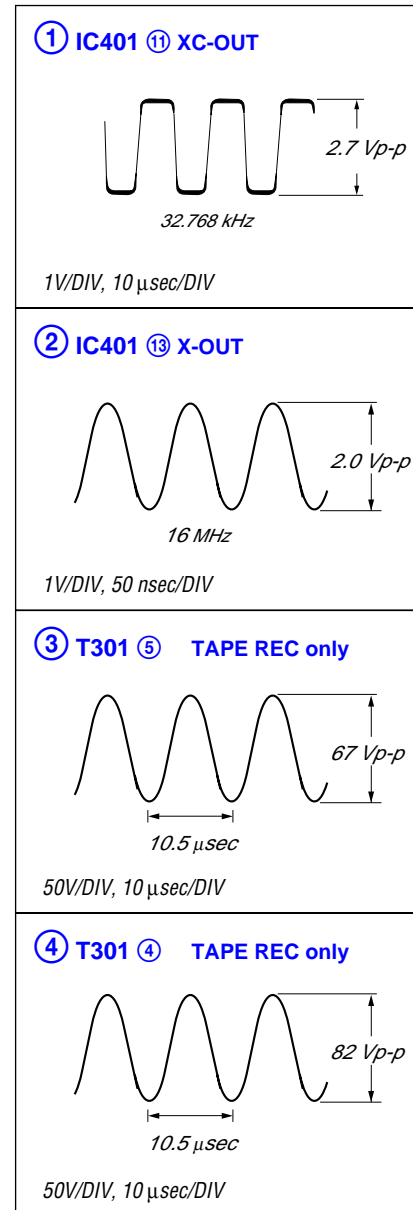


• WAVEFORMS

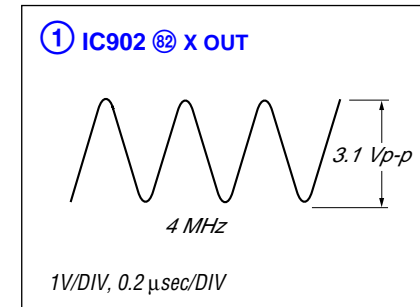
– CD BOARD –



– MAIN BOARD –



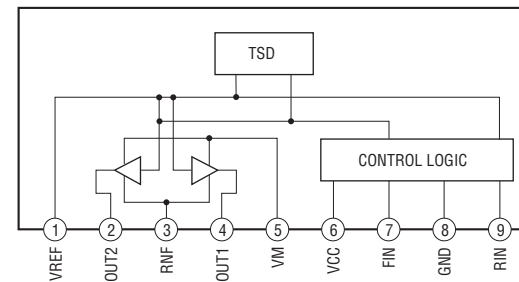
– PANEL BOARD –



• IC Block Diagram

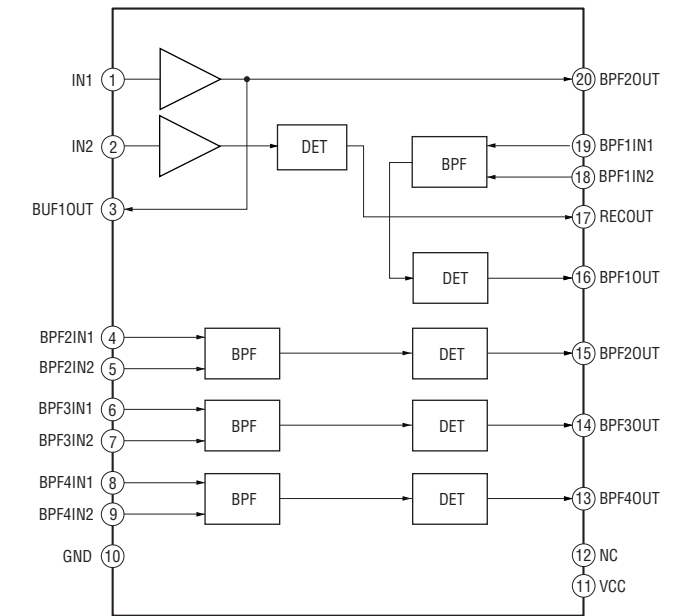
– DRIVER Board –

IC701, 712 BA6956AN



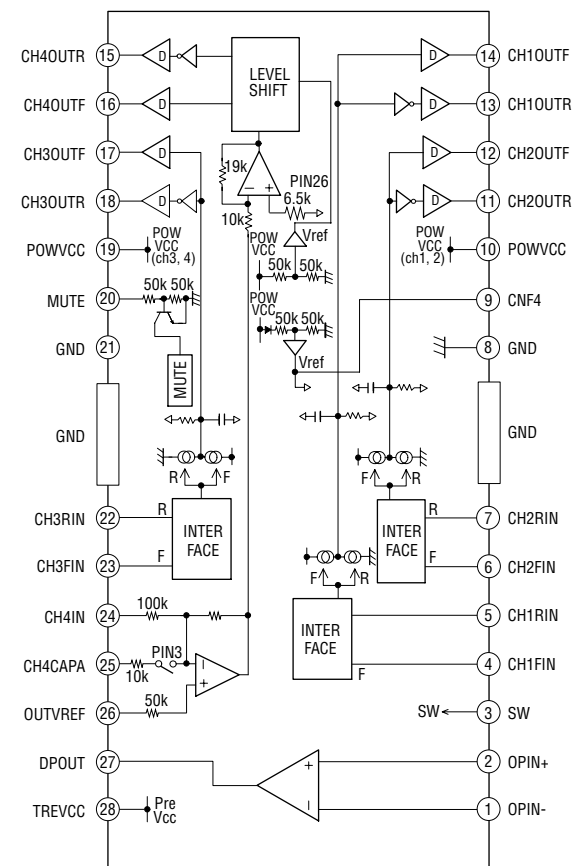
– PANEL Board –

IC904 NJM2760V-TE2



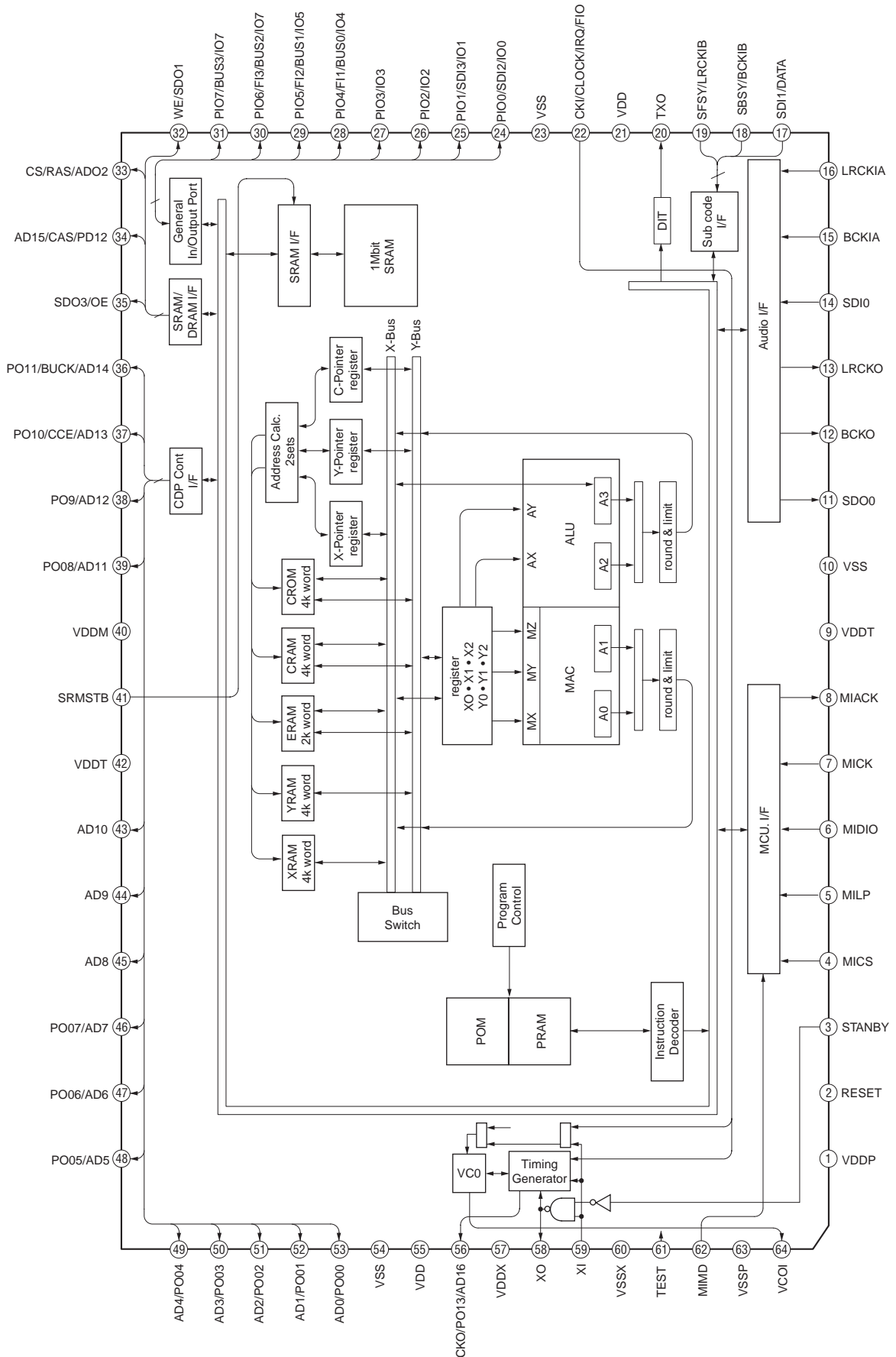
– CD Board –

IC251 BA5947FM-E2



- CD Board -

IC301 TC94A34FG-002



7-23. IC Pin Function Descriptions

• IC101 CXD3059AR (RF AMP, DSP, DAC) (CD BOARD)

Pin No.	Pin Name	I/O	Description
1	MIRR	I/O	Not used (Open)
2	DFCT	I/O	Not used (Open)
3	FOK	I/O	Not used (Open)
4	VSS	—	Ground
5	LOCK	I/O	Not used (Open)
6	MDP	O	Spindle motor servo control output
7	SSTP	I	Disk innermost detection signal input
8	IOVSS1	—	Ground
9	SFDR	O	Sled drive signal output
10	SRDR	O	Sled drive signal output
11	TFDR	O	Tracking drive signal output
12	TRDR	O	Tracking drive signal output
13	FFDR	O	Focus drive signal output
14	FRDR	O	Focus drive signal output
15	IOVDD1	—	Power supply (+3.3V)
16	AVDD0	—	Power supply (+3.3V)
17	AVSS0	—	Ground
18	NC	—	Not used (Open)
19	E	I	E signal input
20	F	I	F signal input
21	TEI	I	Tracking error signal input
22	TEO	O	Tracking error signal output
23	FEI	I	Focus error signal input
24	FEO	O	Focus error signal output
25	VC	I/O	Center voltage output from RF amplifier block
26	A	I	A signal input
27	B	I	B signal input
28	C	I	C signal input
29	D	I	D signal input
30	NC	—	Not used (Open)
31	AVDD4	—	Power supply (+3.3V)
32	RFDCO	O	RFDC signal output (Not used)
33	PDSSENS	I	Reference voltage pin
34	AC_SUM	O	RFAC summing amplifier output
35	EG_IN	I	Equalizer circuit input
36	LD	O	APC LD drive signal output
37	PD	I	APC PD signal input
38	NC	—	Not used (Open)
39	RFC	I	Equalizer cut-off frequency adjustment pin
40	AVSS4	—	Ground
41	RFACO	O	RFAC signal output
42	RFACI	I	RFAC signal input or EFM signal input
43	AVDD3	—	Power supply (+3.3V)
44	BIAS	I	Asymmetry circuit constant current input
45	ASYI	I	Asymmetry comparator voltage input
46	ASYO	O	EFM full-swing output
47	VPCO	O	Not used (Open)
48	VCTL	I	Wide-band EFM PLL VCO2 control voltage input

Pin No.	Pin Name	I/O	Description
49	AVSS3	—	Ground
50	CLTV	I	Multiplier VCO1 control voltage input
51	FILO	O	Master PLL (slave = digital PLL) filter output
52	FILI	I	Master PLL filter input
53	PCO	O	Master PLL charge pump output
54	AVDD5	—	Power supply (+3.3V)
55	DDVROUT	O	DC/DC converter output (+2.5V)
56	DDVRSEN	I	DC/DC converter output voltage monitor input
57	AVSS5	—	Ground
58	DDCR	I	DC/DC converter reset input
59	NC	—	Not used (Open)
60	BCKI	I	D/A interface bit clock input
61	PCMDI	I	D/A interface serial data input
62	LRCKI	I	D/A interface LR clock input
63	LRCK	O	D/A interface LR clock output $f = F_s$
64	VSS	—	Ground
65	PCMD	O	D/A interface serial data output
66	BCK	O	D/A interface bit clock output
67	VDD	—	Power supply (+2.5V)
68	EMPH	O	High when the playback disc has emphasis, low it has not
69	EMPHI	I	High when de-emphasis is ON, low when input OFF
70	IOVDD2	—	Power supply (+3.3V)
71	DOUT	O	Digital Out output
72	TEST	I	Test pin (Connected ground)
73	TEST1	I	Test pin (Connected ground)
74	IOVSS2	—	Ground
75	NC	—	Not used (Open)
76	XVSS	—	Ground
77	XTAO	O	Crystal oscillation circuit output
78	XTAI	I	Crystal oscillation circuit input
79	XVDD	—	Power supply (+2.5V)
80	AVDD1	—	Power supply (+3.3V)
81	AOUT1	O	L-ch analog output
82	VREFL	O	L-ch reference voltage
83	AVSS1	—	Ground
84	AVSS2	—	Ground
85	VREFR	O	R-ch reference voltage
86	AOUT2	O	R-ch analog output
87	AVDD2	—	Power supply (+3.3V)
88	NC	—	Not used (Open)
89	IOVDD0	—	Power supply (+3.3V)
90	RMUT	O	Not used (Open)
91	LMUT	O	Not used (Open)
92	NC	—	Not used (Open)
93	XTSL	I	Crystal selection input (Pull down)
94	IOVSS0	—	Ground
95	XTACN	I	Oscillation circuit control (H:Self-oscillation, L:oscillation stop)
96	SQSO	O	Not used (Open)
97	SQCK	I	SQSO readout clock input (Connected to +VDD(+3.3v))
98	SBSO	O	Not used (Open)

Pin No.	Pin Name	I/O	Description
99	EXCK	I	Not used (Open)
100	XRST	I	System reset input from M30622MEP
101	SYSM	I	Mute input (Connected to ground)
102	DATA	I	Serial data input from M30622MEP
103	VSS	—	ground
104	XLAT	I	Latch input from M30622MEP
105	CLOCK	I	Serial data transfer clock input from M30622MEP
106	VDD	—	Power supply (+2.5V)
107	SENS	O	SENS output to M30622MEP
108	SCLK	I	SENS serial data readout clock input (Connected to +VDD(+3.3v))
109	ATSK	I/O	Not used (Open)
110	WFCK	O	Not used (Open)
111	XUGF	O	Not used (Open)
112	XPCK	O	Not used (Open)
113	GFS	O	Not used (Open)
114	C2PO	O	Not used (Open)
115	SCOR	O	High output when the sub code sync, S0 or S1, is detected
116	VDD	—	Power supply (+2.5V)
117	C4M	O	Not used (Open)
118	WDCK	O	Not used (Open)
119	COUT	I/O	Not used (Open)
120	NC	—	Not used (Open)

• IC401 M30622MEP-A77FPU0 SYSTEM CONTROL (MAIN BOARD)

Pin No.	Pin Name	I/O	Description
1	XRST	O	Reset signal output to CXD3053AR
2	CD-DATA	O	Serial data output to CXD3053AR
3	XLAT	O	Serial data latch signal output to CXD3053AR
4	SIRCS	I	Remote control signal input
5	MP3 DATA OUT	O	Serial data output to TC94A34FG
6	MP3 DATA IN	I	Serial data input from TC94A34FG
7	MP3 CLK	O	Serial data transfer clock output to TC94A34FG
8	BYTE	I	Not used (Connected to ground)
9	CNVSS	—	Ground at test (Pull down)
10	XC-IN	I	Sub system clock input (32.768KHz)
11	XC-OUT	O	Sub system clock output (32.768KHz)
12	RESET	I	System reset input
13	X-OUT	O	Main system clock output (16MHz)
14	VSS	—	Ground
15	X-IN	I	Main system clock input (16MHz)
16	VCC	—	Power supply (+5V)
17	NMI	I	Not used (Pull up with resistor)
18	CD-CLK	O	CD data clock output
19	SCOR	I	Sub code sync (S0+S1) detection signal input
20	AC-CUT	I	AC off detection signal input
21	SENS	I	Internal status detection monitor input from CXD3059AR
22	MP3 RST	O	Reset signal output to TC94A34FG
23	MP3 CS	O	Chip select signal output to TC94A34FG
24	MP3 LP	O	Latch pulse output to TC94A34FG
25	MP3 ACK	I	Acknowledge signal input from TC94A34FG
26	MP3 REQ	I	Request signal input to TC94A34FG
27	MP3 STB	O	Standby mode signal output to TC94A34FG
28	XTCN	O	Oscillation on/off control signal output to CXD3053AR
29	IIC-CLK	I/O	IIC bus serial clock input/output
30	IIC-DATA	I/O	IIC bus serial data input/output
31	VMUTE	O	CDG video signal muting on/off control signal output
32	CD POWER	O	Not used (Open)
33	CDG DET	I	Not used (Open)
34	CDG/BGC	O	Not used (Open)
35	CDG RST	O	Not used (Open)
36	FAN KICK-OFF	O	Fan kick off pulse to start up fan rotation signal output
37	CD MUTE	O	CD muting on/off control signal output
38	OPEN SW	I	Eject detection signal input
39	TBL-SENS	I	Disc tray position detection signal input
40	E-3	I	Disc tray status detection signal input
41	E-2	I	Disc tray status detection signal input
42	E-1	I	Disc tray status detection signal input
43	TM-F	O	Table motor control signal output
44	TM-R	O	Table motor control signal output
45	LMF	O	Table loading motor control signal output
46	LMR	O	Table loading motor control signal output
47	A-PLAY	I	Deck A playback detection signal input
48	A-HALF	I	Deck A cassette detection signal input
49	SW LED1	O	Not used (Open)

HCD-LX10000

Pin No.	Pin Name	I/O	Description
50	SW LED2	O	Not used (Open)
51	B-PLAY	I	Deck B playback detection signal input
52	THERMAL VACS	I	Thermal VACS detection input
53	A-TRIG	O	Deck A side trigger plunger drive signal output
54	CAPM-CONT	O	Capstan motor drive signal output
55	B-TRIG	O	Deck B side trigger plunger drive signal output
56	REC BIAS	O	Recording bias on/off control signal output
57	TC-RELAY	O	Recording/playback selection signal output
58	ALC	O	Automatic limiter control signal output
59	PB-AB	O	Deck A/B playback selection signal output
60	AMS-IN	I	Not used.
61	UNDER VOLTAGE DET	I	Under-voltage protection detection input (Connected to ground)
62	VCC	—	Power supply(+3.3V)
63	OVER VOLTAGE	I	Over-voltage protection detection input (Not used)
64	VSS	—	Ground
65	TC MUTE	O	Tape playback muting on/off signal output
66	LINE MUTE	O	Line muting on/off signal output
67	REC MUTE	O	Recording muting on/off signal output
68	SW RY	O	Not used (Open)
69	STBY-RLY	O	Main power on/off signal output
70	PROT	I	Speaker protect detection signal input
71	GC-RESET	O	GC reset signal output
72	STBY-LED/FAN CTRL	O	POWER indicator LED drive signal output
73	DISPLAY-KEY	I	DISPLAY key press detection Interrupt signal input
74	POWER-KEY	I	POWER key press detection Interrupt signal input
75	HP-MUTE	O	Headphone muting on/off signal output
76	FR RELAY	O	front speakers relay drive signal output
77	LINK/SURR-RLY	O	Surround speaker mode control signal output
78	STK-MUTE	O	Power amplifier and sub woofer amplifier on/off control signal output
79	M61530-DATA	O	Not used (Open)
80	M61530-CLK	O	Not used (Open)
81	M61529-DATA	O	Serial data output to M61529FP
82	M61529-CLK	O	Serial transfer clock signal output to M61529FP
83	SW ON LED	O	Not used (Open)
84	ST-CE	O	PLL chip enable signal output to the tuner unit
85	MC DIN (ST)	O	PLL serial data output to the tuner unit
86	ST-CLK	I	PLL serial transfer clock signal output to the tuner unit
87	MC DOUT (ST)	I	PLL serial data input from the tuner unit
88	TUNED	I	Tuning detection signal input from the tuner unit
89	A SHUT	I	Shut off detection signal input from deck A side reel pulse detector
90	B SHUT	I	Shut off detection signal input from deck A side reel pulse detector
91	SW AD KEY	I	Not used (pull up)
92	MODEL-IN	I	Model setting input
93	DEST-IN	I	Destination input
94	B-HALF	I	Deck B cassette , forward side recording tab and reverse side recording tab detection signal input
95	SW VOL IN	I	Subwoofer on/off signal input
96	AVSS	—	Ground
97	BPF DET	I	Low frequency signal input from NJM2760 for RANDOM mode
98	VREF	I	A/D reference voltage input
99	AVCC	—	Power supply (+3.3V)
100	HP DET	I	Headphone connection detection signal input

• IC902 MB90M407PF-G-144E1 DISPLAY CONTROL (PANEL Board)

Pin No.	Pin Name	I/O	Description
1 to 8	G8 to G1	O	FLD grid signal output
9, 10	P1,P2	O	FLD segment signal output
11	VSS-IO	—	Ground
12 to 22	P3 to P13	O	FLD segment signal output
23	VDD-FIP	—	Power supply (+3.3V)
24 to 41	P14 to P31	O	FLD segment signal output
42	VSS-IO	—	Ground
43 to 47	P32 to P36	O	FLD segment signal output
48	VKK	—	Power supply (-35V)
49	MD0	I	MD0 signal at test
50	MD1/VDD-VFT	I	Not used (pull up)
51	MD2	I	Not used (pull down)
52	LED CD/DVD	O	LED drive signal output
53	LED TUNER	O	LED drive signal output
54	LED TAPE	O	LED drive signal output
55	LED VIDEO	O	LED drive signal output
56	LED STOP,PAUSE	O	LED drive signal output
57	LED VOLUME 2,3	O	LED drive signal output
58	LED VOLUME 4,5	O	LED drive signal output
59	LED VOLUME 6,1	O	LED drive signal output
60	IIC DATA	I/O	IIC bus serial data input/output
61	IIC CLK	I/O	IIC bus serial clock input/output
62	AVCC	—	Power supply (+3.3V)
63	AVSS	—	Ground
64 to 66	KEY0 to KEY2	I	Key input (A/D)
67	ALL BAND	I	Audio L+R signal input
68 to 71	BPF4 to BPF1	I	Spectrum analyzer signal input
72	LED VIDEO/MD	O	LED drive signal output
73	X-ROUND JOG	O	X-ROUND JOG encoder signal input
74	VOLUME	I	Volume encoder signal input
75	OPERATION DIAL	I	JOG dial encoder signal input
76	AMS	I	AMS dial signal input
77	RESET	I	Reset input
78	LED AMS+/-,FF/FW	O	LED drive signal output
79	LED PLAY	O	LED drive signal output
80	SELECTOR	O	LED group select signal output
81	VSS-CPU	—	Ground
82	XOUT	O	Crystal oscillator output (4MHz)
83	XIN	I	Crystal oscillator input (4MHz)
84	VCC-CPU	—	Power supply (+3.3V)
85 to 100	G24 to G9	O	FLD grid signal output

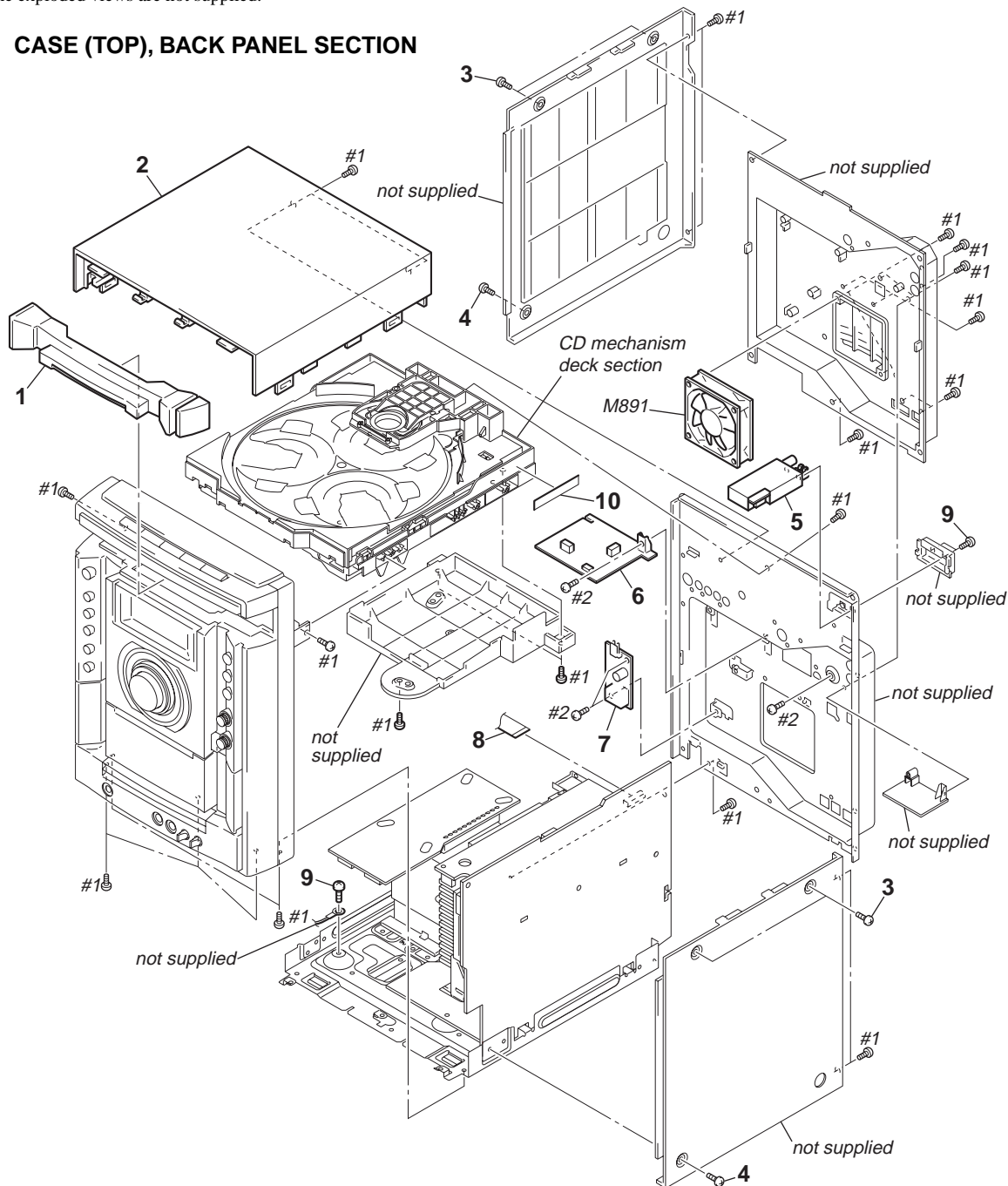
SECTION 8 EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories are given in the last of this parts list.

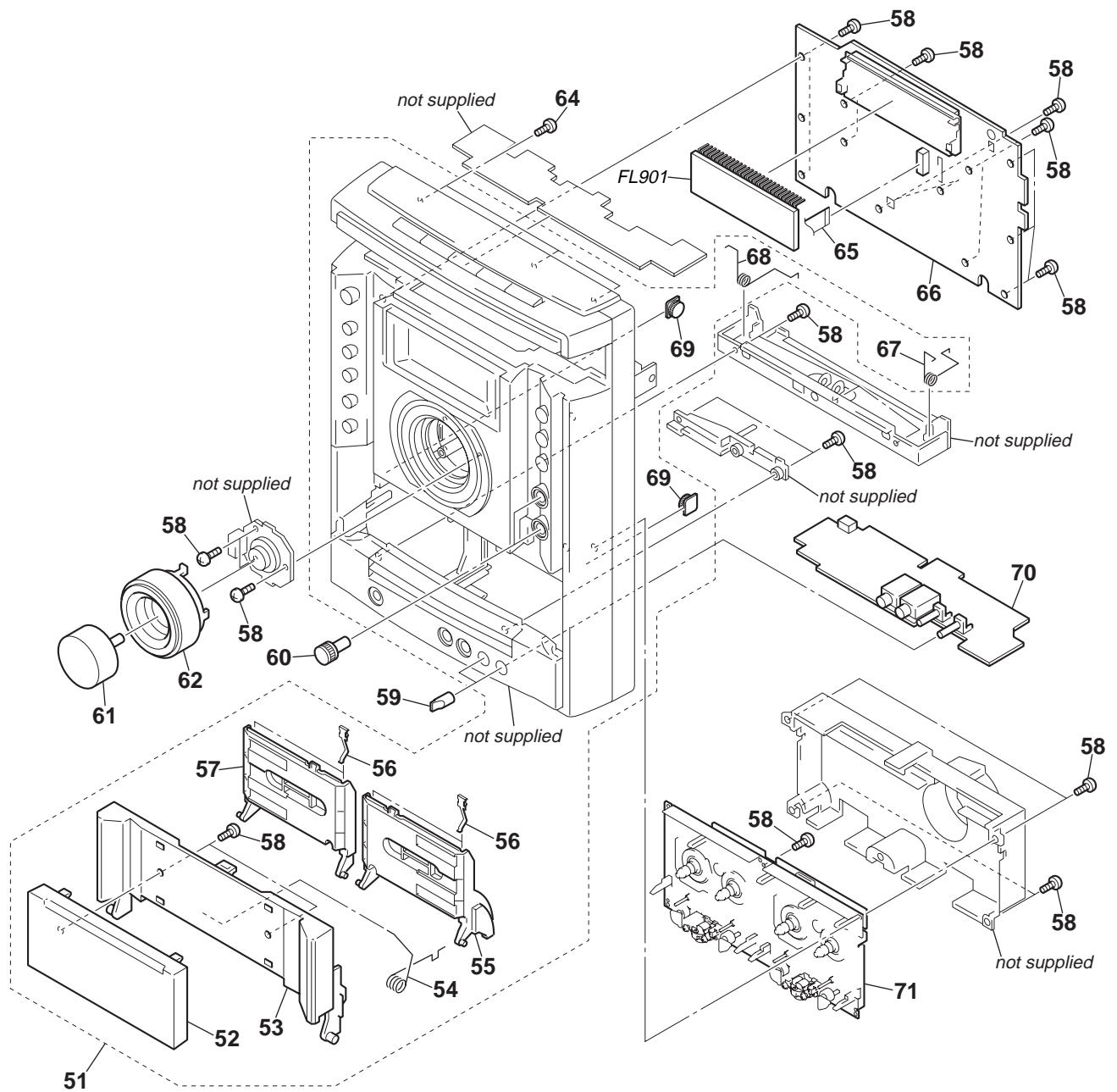
The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

8-1. CASE (TOP), BACK PANEL SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	X-2109-678-1	LOADING PANEL ASSY		8	1-824-048-12	WIRE (FLAT TYPE) (27 CORE)	
2	2-342-117-21	CASE (TOP)		9	3-077-331-21	+BV3 (3-CR)	
3	3-363-099-32	SCREW (CASE 3 TP2)		10	3-378-109-12	CUSHION, SARANET	
4	3-363-099-02	SCREW (CASE 3 TP2)		M891	1-763-372-11	FAN, DC	
5	1-693-672-11	TUNER (FM/AM) (TM-10U)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
6	A-1089-525-A	PRIMARY BOARD, COMPLETE		#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
Δ 7	1-468-737-61	POWER SWITCHING					

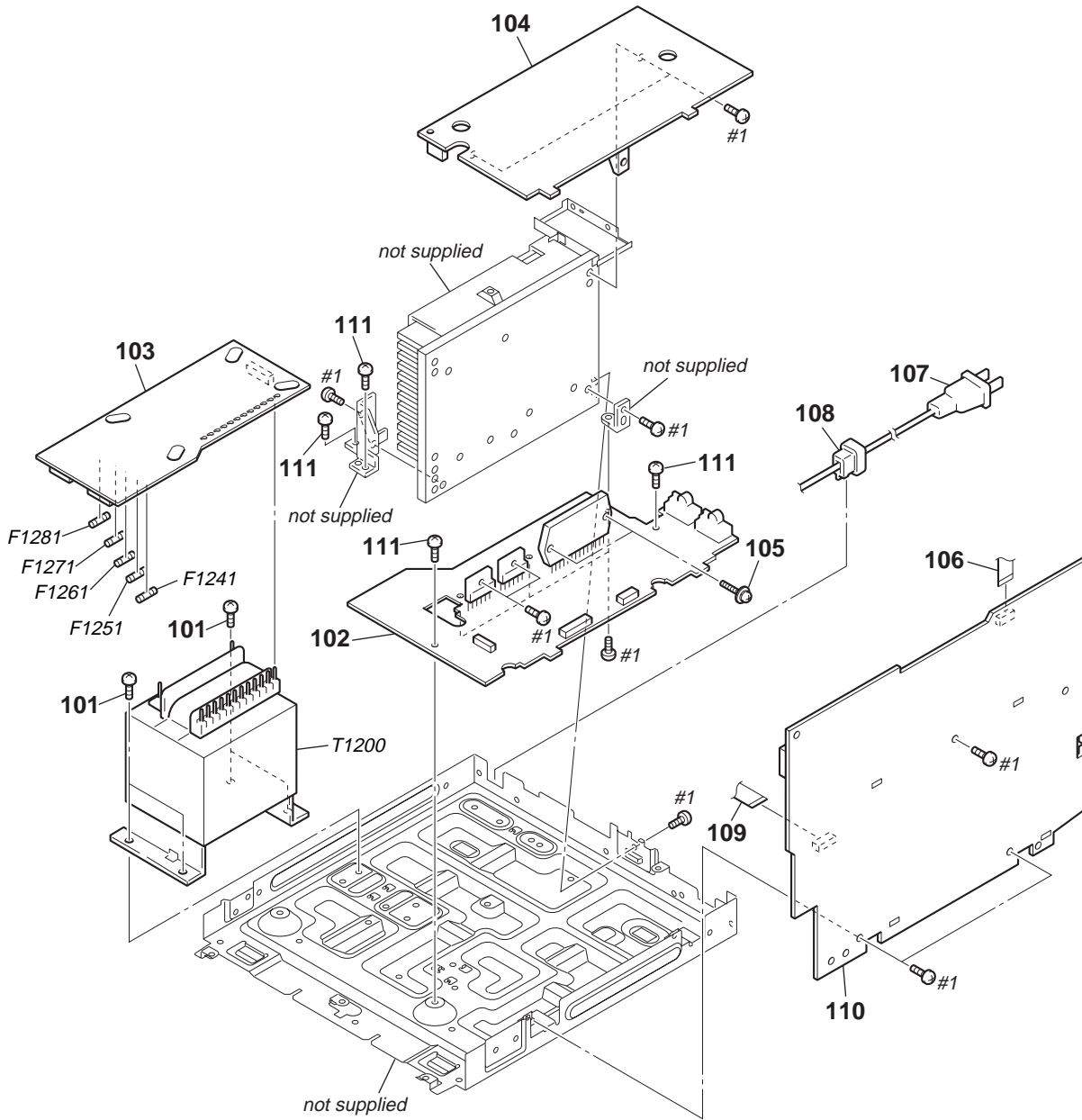
8-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	X-2025-429-1	FRONT PANEL ASSY		62	X-2025-430-1	KNOB JOG ASSY	
52	2-342-128-01	ESCUTHEON (LID)		64	3-077-331-21	+BV3 (3-CR)	
53	2-342-108-01	LID (TC)		65	1-828-992-11	WIRE (FLAT TYPE) (17 CORE)	
54	2-342-134-01	SPRING (LID)		66	A-1089-463-A	PANEL BOARD, COMPLETE	
55	2-342-111-01	HOLDER (TC-R)		67	2-342-136-01	SPRING (R)	
56	4-959-229-11	DETENT, CASSETTE		68	2-342-135-01	SPRING (L)	
57	2-342-110-01	HOLDER (TC-L)		69	4-224-104-11	DAMPER	
58	3-087-053-01	+BVTP2.6 (3CR)		70	A-1089-466-A	MIC BOARD, COMPLETE	
59	4-224-578-21	KNOB (MIC)		71	1-797-165-11	DECK, MECHANICAL (CMAT522)	
60	2-342-104-01	KNOB (AMS)		FL901	1-519-794-21	VACUUM FLUORESCENT DISPLAYS	
61	4-252-575-01	KNOB VOL					

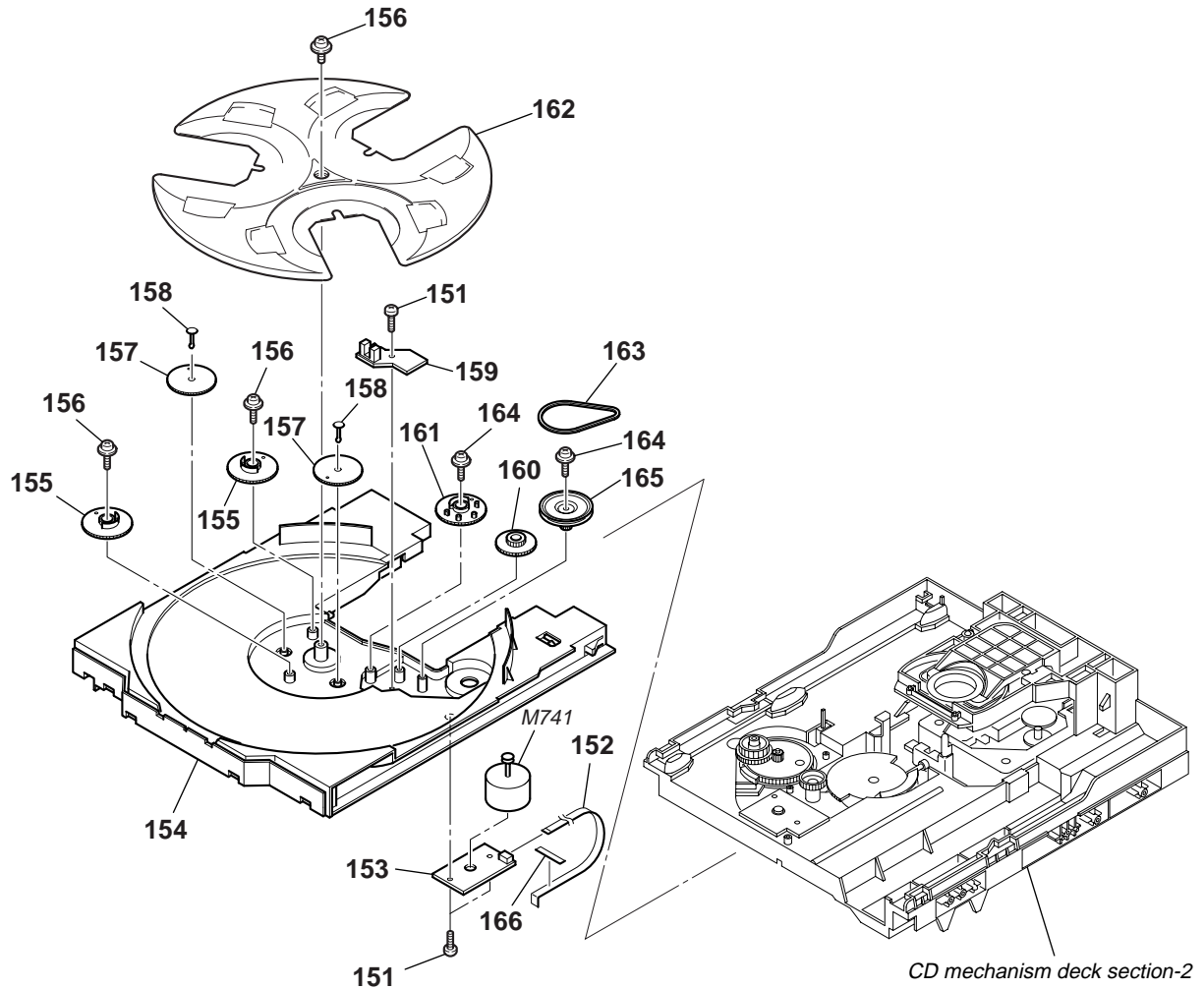
HCD-LX10000

8-3. CHASSIS SECTION



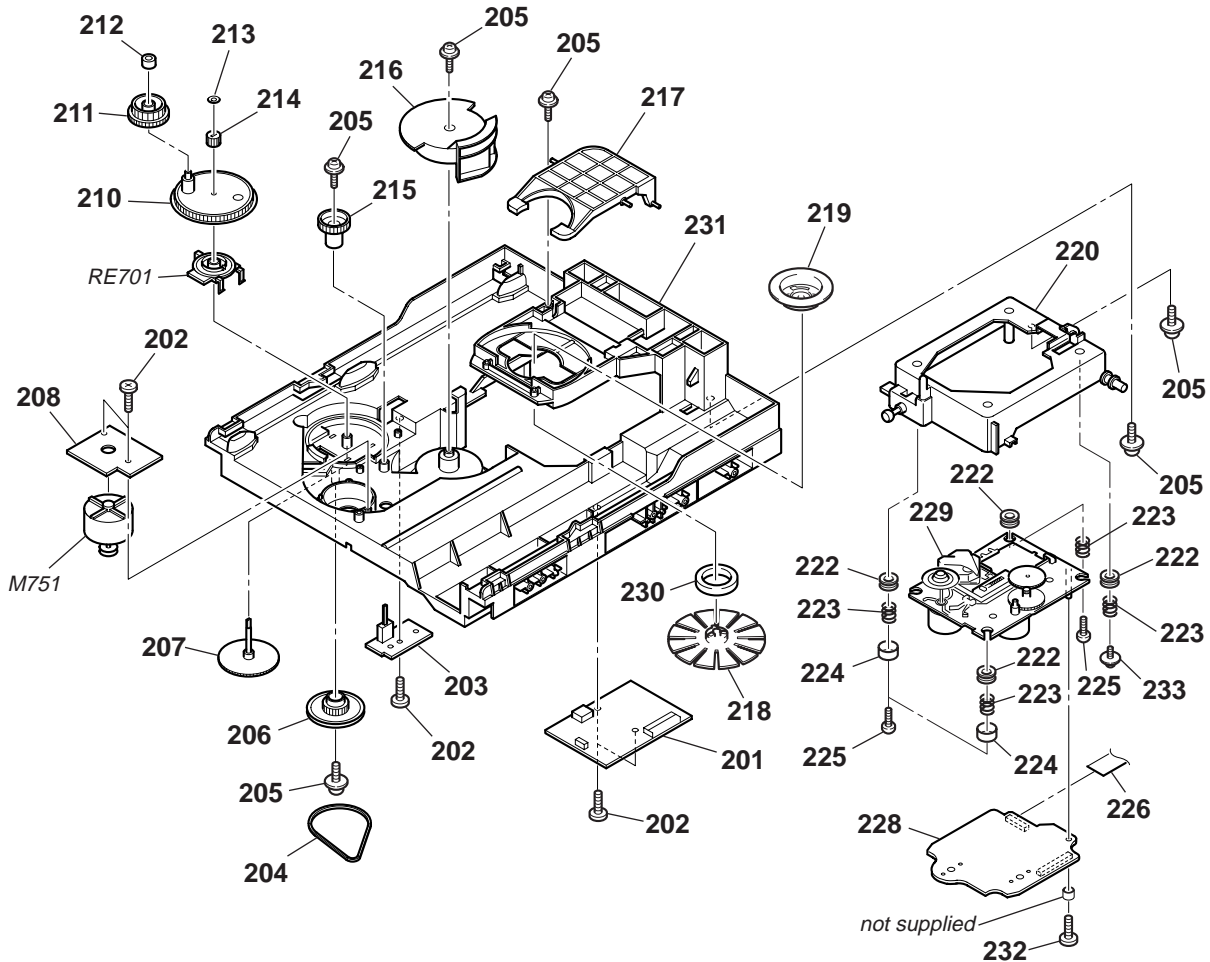
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
101	4-900-386-01	SCREW		110	A-1189-960-A	MAIN BOARD, COMPLETE	
102	A-1089-586-A	PA BOARD, COMPLETE		111	3-077-331-21	+BV3 (3-CR)	
103	A-1089-588-A	TRANS BOARD, COMPLETE		△ F1241	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (T8AL/125V)	
104	A-1089-321-A	SURROUND BOARD, COMPLETE		△ F1251	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (T8AL/125V)	
105	3-905-609-31	SCREW (TRANSISTOR)		△ F1261	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (T8AL/125V)	
106	1-828-956-11	WIRE (FLAT TYPE) (9 CORE)		△ F1271	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (T8AL/125V)	
△ 107	1-783-820-11	CORD, POWER		△ F1281	1-533-451-12	FUSE, GLASS TUBE (DIA.5) (T3.15AL/125V)	
* 108	3-703-244-00	BUSHING (2104), CORD		△ T1200	1-443-544-11	POWER TRANSFORMER	
109	1-828-972-11	WIRE (FLAT TYPE) (13 CORE)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

8-4. CD MECHANISM DECK SECTION-1
(CDM74-F1BD81)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
151	4-218-253-32	SCREW (M2.6), +BTTP		160	4-243-820-01	GEAR (TABLE)	
152	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)		161	4-243-819-01	GEAR (GENEVA)	
153	1-687-134-12	MOTOR (TB) BOARD		162	4-243-816-01	TRAY	
154	4-243-815-01	TABLE (LOADING)		163	4-243-823-01	BELT (TABLE)	
155	4-245-571-02	GEAR (STOPPER)		164	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
156	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		165	4-243-821-01	PULLY (TABLE)	
157	4-245-570-01	GEAR (JOINT)		166	3-231-598-01	SHEET (BA)	
158	4-245-572-01	BUSHING (GEAR)		M741	A-4723-963-A	MOTOR ASSY, TABLE	
159	1-687-132-12	SENSOR BOARD					

8-5. CD MECHANISM DECK SECTION-2 (CDM74-F1BD81)



Ref. No.	Part No.	Description	Remarks
201	1-687-135-12	DRIVER BOARD	
202	4-218-253-52	SCREW (M2.6), +BTTP	
203	1-687-669-12	SW BOARD	
204	4-244-034-01	BELT (LOADING)	
205	4-218-252-52	SCREW (+PTPWH M2.6), FLOATING	
206	4-225-844-01	GEAR (LOADING A)	
207	4-224-613-01	GEAR (SHAFT)	
208	1-687-133-12	MOTOR (LD) BOARD	
210	4-244-108-01	GEAR, SWING	
211	4-224-609-01	GEAR (LOADING C)	
212	4-224-608-01	COLLAR, SWING	
213	3-016-533-11	WASHER (FR), STOPPER	
214	4-224-611-01	GEAR (LOADING B)	
215	4-224-606-01	GEAR (RV)	
216	4-243-818-01	GEAR (U/D)	
217	4-243-822-02	LEVER (LIFTER)	

Ref. No.	Part No.	Description	Remarks
218	X-4955-774-2	PULLEY (SM) ASSY, CHUCKING	
219	4-221-688-01	PULLEY (B), CHUCKING	
220	X-2055-190-1	HOLDER (213) ASSY	
222	4-227-549-11	INSULATOR	
223	4-227-045-11	SPRING (INSULATOR), COIL	
224	4-231-151-01	STOPPER (BU)	
225	4-218-253-42	SCREW (M2.6), +BTTP	
226	1-832-404-21	CABLE, FLEXIBLE FLAT (16 CORE)	
228	A-4751-045-A	CD BOARD, COMPLETE	
△229	8-820-244-01	OPTICAL PICK-UP KSM-215DCP/C2NP	
230	1-471-035-11	MAGNET ASSY	
231	4-243-817-22	CHASSIS	
232	3-087-053-01	+BVTP2.6 (3CR)	
233	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
M751	A-4737-553-A	MOTOR ASSY, LOADING	
RE701	1-477-680-12	ENCODER, ROTARY	

SECTION 9
ELECTRICAL PARTS LIST

CD

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
uF: μF
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable

- COILS
uH: μH
- SEMICONDUCTORS
In each case, u: μ, for example:
uA...: μA..., uPA..., μPA...,
uPB..., μPB..., uPC..., μPC...,
uPD..., μPD...

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

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

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
	A-4751-045-A	CD BOARD, COMPLETE *****		C194	1-164-360-11	CERAMIC CHIP 0.1uF	16V
		< CAPACITOR >		C195	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C10	1-165-989-11	CERAMIC CHIP 10uF	10% 6.3V	C196	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C11	1-165-989-11	CERAMIC CHIP 10uF	10% 6.3V	C201	1-128-995-21	ELECT CHIP 100uF	20% 10V
C14	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C203	1-128-995-21	ELECT CHIP 100uF	20% 10V
C15	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C209	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C16	1-115-156-11	CERAMIC CHIP 1uF	10V	C210	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C17	1-126-246-11	ELECT CHIP 220uF	20% 4V	C211	1-164-230-11	CERAMIC CHIP 220PF	5% 50V
C18	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C212	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C111	1-162-967-11	CERAMIC CHIP 0.0033uF	10% 50V	C213	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C112	1-164-315-11	CERAMIC CHIP 470PF	5% 50V	C251	1-162-969-11	CERAMIC CHIP 0.0068uF	10% 25V
C113	1-162-967-11	CERAMIC CHIP 0.0033uF	10% 50V	C252	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C114	1-164-315-11	CERAMIC CHIP 470PF	5% 50V	C255	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C115	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C257	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C116	1-128-995-21	ELECT CHIP 100uF	20% 10V	C258	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C122	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	C259	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C123	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	C260	1-128-394-11	ELECT CHIP 220uF	20% 10V
C124	1-162-959-11	CERAMIC CHIP 330PF	5% 50V	C302	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C125	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C303	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C131	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	C305	1-126-246-11	ELECT CHIP 220uF	20% 4V
C132	1-117-863-11	CERAMIC CHIP 0.47uF	10% 6.3V	C306	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C133	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C307	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C134	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C308	1-126-208-21	ELECT CHIP 47uF	20% 4V
C141	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	C309	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C142	1-162-965-11	CERAMIC CHIP 0.0015uF	10% 50V	C310	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C143	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C311	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C151	1-128-995-21	ELECT CHIP 100uF	20% 10V	C312	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C161	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C313	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C162	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C314	1-126-208-21	ELECT CHIP 47uF	20% 4V
C163	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C315	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C171	1-162-919-11	CERAMIC CHIP 22PF	5% 50V	C316	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
C172	1-162-920-11	CERAMIC CHIP 27PF	5% 50V	C317	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C174	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C318	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C181	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C320	1-216-864-11	SHORT CHIP 0	
C182	1-164-360-11	CERAMIC CHIP 0.1uF	16V			< CONNECTOR >	
C183	1-124-778-00	ELECT CHIP 22uF	20% 6.3V	CN101	1-770-425-51	CONNECTOR, FFC/FPC 16P	
C184	1-124-778-00	ELECT CHIP 22uF	20% 6.3V	CN201	1-818-350-51	CONNECTOR, FFC (LIF (NON-ZIF)) 27P	
C185	1-164-315-11	CERAMIC CHIP 470PF	5% 50V			< FERRITE BEAD >	
C186	1-164-315-11	CERAMIC CHIP 470PF	5% 50V	FB301	1-500-445-21	FERRITE, EMI (SMD) (2012)	

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CD **CD-SW** **DRIVER**

Ref. No.	Part No.	Description	Remarks
< IC >			
IC101	8-752-425-12	IC CXD3059AR	
IC251	6-705-808-01	IC BA5947FM-E2	
IC301	6-705-365-01	IC TC94A34FG-002	
IC303	6-705-807-01	IC BH15FB1WG	
< TRANSISTOR >			
Q10	6-551-120-01	TRANSISTOR 2SA2119K	
< RESISTOR >			
R10	1-216-791-11	METAL CHIP 3.3	5% 1/10W
R11	1-216-864-11	SHORT CHIP 0	
R12	1-216-845-11	METAL CHIP 100K	5% 1/10W
R13	1-218-446-11	METAL CHIP 1	5% 1/10W
R111	1-216-821-11	METAL CHIP 1K	5% 1/10W
R112	1-216-835-11	METAL CHIP 15K	5% 1/10W
R113	1-216-821-11	METAL CHIP 1K	5% 1/10W
R114	1-216-835-11	METAL CHIP 15K	5% 1/10W
R121	1-216-835-11	METAL CHIP 15K	5% 1/10W
R131	1-216-857-11	METAL CHIP 1M	5% 1/10W
R132	1-216-833-11	METAL CHIP 10K	5% 1/10W
R133	1-216-848-11	METAL CHIP 180K	5% 1/10W
R141	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R142	1-216-821-11	METAL CHIP 1K	5% 1/10W
R143	1-216-827-11	METAL CHIP 3.3K	5% 1/10W
R151	1-216-864-11	SHORT CHIP 0	
R161	1-216-809-11	METAL CHIP 100	5% 1/10W
R162	1-216-841-11	METAL CHIP 47K	5% 1/10W
R163	1-216-809-11	METAL CHIP 100	5% 1/10W
R165	1-216-864-11	SHORT CHIP 0	
R171	1-216-817-11	METAL CHIP 470	5% 1/10W
R172	1-216-857-11	METAL CHIP 1M	5% 1/10W
R173	1-216-295-91	SHORT CHIP 0	
R181	1-216-809-11	METAL CHIP 100	5% 1/10W
R182	1-216-809-11	METAL CHIP 100	5% 1/10W
R191	1-216-864-11	SHORT CHIP 0	
R201	1-500-445-21	FERRITE, EMI (SMD) (2012)	
R203	1-216-864-11	SHORT CHIP 0	
R204	1-500-445-21	FERRITE, EMI (SMD) (2012)	
R205	1-216-864-11	SHORT CHIP 0	
R251	1-216-833-11	METAL CHIP 10K	5% 1/10W
R252	1-216-837-11	METAL CHIP 22K	5% 1/10W
R253	1-216-833-11	METAL CHIP 10K	5% 1/10W
R301	1-216-845-11	METAL CHIP 100K	5% 1/10W
R302	1-216-833-11	METAL CHIP 10K	5% 1/10W
R303	1-216-845-11	METAL CHIP 100K	5% 1/10W
R305	1-216-845-11	METAL CHIP 100K	5% 1/10W
R306	1-216-864-11	SHORT CHIP 0	
R307	1-216-833-11	METAL CHIP 10K	5% 1/10W
R313	1-216-813-11	METAL CHIP 220	5% 1/10W
R351	1-216-809-11	METAL CHIP 100	5% 1/10W
R352	1-216-809-11	METAL CHIP 100	5% 1/10W
R353	1-216-809-11	METAL CHIP 100	5% 1/10W
R354	1-216-809-11	METAL CHIP 100	5% 1/10W
R401	1-216-809-11	METAL CHIP 100	5% 1/10W
R402	1-216-809-11	METAL CHIP 100	5% 1/10W
R403	1-216-809-11	METAL CHIP 100	5% 1/10W

Ref. No.	Part No.	Description	Remarks
R404	1-216-809-11	METAL CHIP 100	5% 1/10W
R405	1-216-809-11	METAL CHIP 100	5% 1/10W
R406	1-216-809-11	METAL CHIP 100	5% 1/10W
R407	1-216-809-11	METAL CHIP 100	5% 1/10W
R408	1-216-809-11	METAL CHIP 100	5% 1/10W
R409	1-216-809-11	METAL CHIP 100	5% 1/10W
R410	1-216-809-11	METAL CHIP 100	5% 1/10W
R411	1-216-809-11	METAL CHIP 100	5% 1/10W
R412	1-216-809-11	METAL CHIP 100	5% 1/10W
R419	1-216-809-11	METAL CHIP 100	5% 1/10W
R502	1-216-864-11	SHORT CHIP 0	
< SWITCH >			
S101	1-771-853-11	SWITCH DETECTION (LIMIT)	
< VIBRATOR >			
X171	1-767-408-21	VIBRATOR, CRYSTAL (16.9MHz)	

CD-SW BOARD			

< RESISTOR >			
R1169	1-216-817-11	METAL CHIP 470	5% 1/10W
R1171	1-216-823-11	METAL CHIP 1.5K	5% 1/10W
R1172	1-216-823-11	METAL CHIP 1.5K	5% 1/10W
R1173	1-216-821-11	METAL CHIP 1K	5% 1/10W
R1174	1-216-819-11	METAL CHIP 680	5% 1/10W
< SWITCH >			
S1156	1-762-875-21	SWITCH, KEYBOARD (DISC 1)	
S1157	1-762-875-21	SWITCH, KEYBOARD (DISC 2)	
S1158	1-762-875-21	SWITCH, KEYBOARD (DISC 3)	
S1159	1-762-875-21	SWITCH, KEYBOARD (EX-CHANGE/DISC SKIP)	
S1160	1-762-875-21	SWITCH, KEYBOARD (▲ OPEN/CLOSE)	

1-687-135-12 DRIVER BOARD			

< CAPACITOR >			
C715	1-126-933-11	ELECT 100uF	20% 16V
C731	1-126-964-11	ELECT 10uF	20% 50V
C735	1-164-159-11	CERAMIC 0.1uF	50V
C736	1-164-159-11	CERAMIC 0.1uF	50V
C737	1-164-159-11	CERAMIC 0.1uF	50V
C741	1-162-306-11	CERAMIC 0.01uF	20% 16V
C751	1-162-306-11	CERAMIC 0.01uF	20% 16V
C752	1-164-159-11	CERAMIC 0.1uF	50V
< CONNECTOR >			
CN701	1-785-338-11	PIN, CONNECTOR (LIGHT ANGLE) 12P	
CN702	1-784-766-11	CONNECTOR, FFC 5P	
* CN703	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P	
CN704	1-785-328-11	PIN, CONNECTOR (LIGHT ANGLE) 2P	
< DIODE >			
D701	8-719-947-16	DIODE MTZJ-T-72-5.1A	
D711	8-719-983-66	DIODE MTZJ-T-72-3.6B	

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< IC >					
IC701	8-759-598-69	IC BA6956AN		R1146	1-216-820-11	METAL CHIP 820 5% 1/10W	
IC712	8-759-598-69	IC BA6956AN		R1156	1-216-821-11	METAL CHIP 1K 5% 1/10W	
		< TRANSISTOR >		R1157	1-216-820-11	METAL CHIP 820 5% 1/10W	
Q731	8-729-029-66	TRANSISTOR DTC114ESA		R1158	1-216-820-11	METAL CHIP 820 5% 1/10W	
		< RESISTOR >		R1159	1-216-820-11	METAL CHIP 820 5% 1/10W	
R701	1-249-413-11	CARBON 470 5% 1/4W		R1190	1-216-809-11	METAL CHIP 100 5% 1/10W	
R702	1-247-807-31	CARBON 100 5% 1/4W		R1191	1-216-809-11	METAL CHIP 100 5% 1/10W	
R711	1-247-831-91	CARBON 1K 5% 1/4W		R1192	1-216-809-11	METAL CHIP 100 5% 1/10W	
R712	1-247-847-91	CARBON 4.7K 5% 1/4W				< SWITCH >	
R713	1-247-863-91	CARBON 22K 5% 1/4W		S1161	1-479-203-11	ENCODER (ROTARY) (OPERATION DIAL)	

R721	1-247-847-91	CARBON 4.7K 5% 1/4W		A-1172-532-A		LIGHTING BOARD	
R722	1-247-847-91	CARBON 4.7K 5% 1/4W				*****	
R723	1-247-847-91	CARBON 4.7K 5% 1/4W				< CAPACITOR >	
R731	1-247-807-31	CARBON 100 5% 1/4W		C06	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
R732	1-249-429-11	CARBON 10K 5% 1/4W		C07	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
R733	1-247-831-91	CARBON 1K 5% 1/4W				< CONNECTOR >	
R734	1-249-430-11	CARBON 12K 5% 1/4W		CN01	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
R735	1-247-807-31	CARBON 100 5% 1/4W				< DIODE >	
R751	1-247-847-91	CARBON 4.7K 5% 1/4W		D01	6-501-193-01	DIODE 1SS355WTE-17	
		*****		D02	6-501-193-01	DIODE 1SS355WTE-17	
		JOG BOARD		D03	8-719-083-60	DIODE UDZSTE-174.7B	
		*****				< JACK >	
		< CAPACITOR >		J01	1-820-048-11	CONNECTOR (LIGHTING) (D-LIGHT SYNC OUT)	
C1150	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V				< TRANSISTOR >	
		< CONNECTOR >		Q01	8-729-056-46	TRANSISTOR 2SC5053T100Q	
* CNS903	1-562-573-11	SOCKET, CONNECTOR 8P				< RESISTOR >	
		< DIODE >		R01	1-216-809-11	METAL CHIP 100 5% 1/10W	
D919	6-500-809-01	DIODE SELU5223C-STP15 (VOL 2)		R03	1-216-819-11	METAL CHIP 680 5% 1/10W	
D920	6-500-809-01	DIODE SELU5223C-STP15 (VOL 3)		R05	1-216-864-11	SHORT CHIP 0	
D921	6-500-809-01	DIODE SELU5223C-STP15 (VOL 4)				*****	
D922	6-500-809-01	DIODE SELU5223C-STP15 (VOL 5)		A-1189-961-A		MAIN BOARD, COMPLETE	
D923	6-500-809-01	DIODE SELU5223C-STP15 (VOL 6)				*****	
D924	6-500-809-01	DIODE SELU5223C-STP15 (VOL 1)		7-685-646-79		SCREW +BVTP 3X8 TYPE2 IT-3	
		< JUMPER RESISTOR >				< CAPACITOR >	
JR904	1-216-296-11	SHORT CHIP 0		C100	1-104-658-91	ELECT 100uF 20% 10V	
JR905	1-216-864-11	SHORT CHIP 0		C102	1-126-964-11	ELECT 10uF 20% 50V	
		< TRANSISTOR >		C103	1-126-964-11	ELECT 10uF 20% 50V	
Q911	8-729-027-43	TRANSISTOR DTC114EKA-T146		C104	1-126-964-11	ELECT 10uF 20% 50V	
Q912	8-729-027-43	TRANSISTOR DTC114EKA-T146		C105	1-126-964-11	ELECT 10uF 20% 50V	
Q913	8-729-027-43	TRANSISTOR DTC114EKA-T146				< RESISTOR >	
		< RESISTOR >		C106	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
R1138	1-216-820-11	METAL CHIP 820 5% 1/10W		C107	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
R1139	1-216-820-11	METAL CHIP 820 5% 1/10W		C108	1-164-677-11	CERAMIC CHIP 0.033uF 10% 16V	
R1140	1-216-820-11	METAL CHIP 820 5% 1/10W		C109	1-126-960-11	ELECT 1uF 20% 50V	
R1144	1-216-820-11	METAL CHIP 820 5% 1/10W		C110	1-162-974-11	CERAMIC CHIP 0.01uF 50V	
R1145	1-216-820-11	METAL CHIP 820 5% 1/10W					

HCD-LX10000

MAIN

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
C111	1-126-964-11	ELECT	10uF	20%	50V	C370	1-137-150-11	FILM	0.01uF	5%	100V
C112	1-136-170-00	FILM	0.27uF	5%	50V	C371	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C113	1-136-170-00	FILM	0.27uF	5%	50V						
C114	1-126-964-11	ELECT	10uF	20%	50V	C372	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C115	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C373	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
						C374	1-126-947-11	ELECT	47uF	20%	35V
C116	1-126-923-91	ELECT	220uF	20%	10V	C375	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C121	1-162-957-11	CERAMIC CHIP	220PF	5%	50V	C376	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C122	1-162-957-11	CERAMIC CHIP	220PF	5%	50V						
C130	1-126-964-11	ELECT	10uF	20%	50V	C377	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C131	1-126-959-11	ELECT	0.47uF	20%	50V	C378	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
						C379	1-130-481-00	MYLAR	0.0068uF	5%	50V
C140	1-136-495-11	FILM	0.068uF	5%	50V	C380	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C149	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C381	1-164-670-11	CERAMIC CHIP	1200PF	5%	16V
C150	1-126-964-11	ELECT	10uF	20%	50V						
C152	1-126-964-11	ELECT	10uF	20%	50V	C382	1-164-670-11	CERAMIC CHIP	1200PF	5%	16V
C153	1-126-964-11	ELECT	10uF	20%	50V	C383	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
						C384	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C154	1-126-964-11	ELECT	10uF	20%	50V	C385	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C155	1-126-964-11	ELECT	10uF	20%	50V	C386	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C156	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V						
C157	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C391	1-126-933-11	ELECT	100uF	20%	16V
C158	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	C405	1-164-156-11	CERAMIC CHIP	0.1uF		25V
						C410	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C159	1-126-960-11	ELECT	1uF	20%	50V	C411	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C160	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C161	1-126-964-11	ELECT	10uF	20%	50V						
C162	1-136-170-00	FILM	0.27uF	5%	50V	C416	1-104-656-11	ELECT	2200uF	20%	6.3V
C163	1-136-170-00	FILM	0.27uF	5%	50V	C419	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
						C429	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C180	1-126-963-11	ELECT	4.7uF	20%	50V	C430	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C181	1-126-963-11	ELECT	4.7uF	20%	50V	C462	1-104-658-91	ELECT	100uF	20%	10V
C250	1-126-964-11	ELECT	10uF	20%	50V						
C251	1-126-964-11	ELECT	10uF	20%	50V	C464	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C260	1-162-957-11	CERAMIC CHIP	220PF	5%	50V	C497	1-164-156-11	CERAMIC CHIP	0.1uF		25V
						C498	1-126-964-11	ELECT	10uF	20%	50V
C261	1-162-957-11	CERAMIC CHIP	220PF	5%	50V	C499	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C262	1-162-957-11	CERAMIC CHIP	220PF	5%	50V	C501	1-126-964-11	ELECT	10uF	20%	50V
C263	1-162-957-11	CERAMIC CHIP	220PF	5%	50V						
C264	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V	C502	1-136-497-81	FILM	0.1uF	5%	50V
C280	1-126-964-11	ELECT	10uF	20%	50V	C503	1-136-497-81	FILM	0.1uF	5%	50V
						C520	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C281	1-126-964-11	ELECT	10uF	20%	50V	C521	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C301	1-136-967-11	FILM	0.012uF	5%	100V	C522	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C303	1-136-497-81	FILM	0.1uF	5%	50V						
C304	1-126-964-11	ELECT	10uF	20%	50V	C523	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C305	1-126-960-11	ELECT	1uF	20%	50V	C524	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
						C525	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C306	1-126-961-11	ELECT	2.2uF	20%	50V	C534	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C307	1-126-964-11	ELECT	10uF	20%	50V	C535	1-126-928-11	ELECT	3300uF	20%	10V
C308	1-126-925-91	ELECT	470uF	20%	10V						
C309	1-126-947-11	ELECT	47uF	20%	35V	C537	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C310	1-126-964-11	ELECT	10uF	20%	50V	C538	1-164-156-11	CERAMIC CHIP	0.1uF		25V
						C539	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C311	1-126-964-11	ELECT	10uF	20%	50V	C540	1-126-960-11	ELECT	1uF	20%	50V
C312	1-126-964-11	ELECT	10uF	20%	50V	C541	1-126-960-11	ELECT	1uF	20%	50V
C314	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V						
C340	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C542	1-126-960-11	ELECT	1uF	20%	50V
C341	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C543	1-126-960-11	ELECT	1uF	20%	50V
						C544	1-126-960-11	ELECT	1uF	20%	50V
C351	1-136-967-11	FILM	0.012uF	5%	100V	C545	1-126-960-11	ELECT	1uF	20%	50V
C353	1-136-497-81	FILM	0.1uF	5%	50V	C546	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C354	1-126-791-11	ELECT	10uF	20%	35V						
C355	1-126-960-11	ELECT	1uF	20%	50V	C547	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C356	1-126-961-11	ELECT	2.2uF	20%	50V	C550	1-126-933-11	ELECT	100uF	20%	16V
						C551	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C359	1-126-947-11	ELECT	47uF	20%	35V	C552	1-126-961-11	ELECT	2.2uF	20%	50V
C361	1-126-964-11	ELECT	10uF	20%	50V	C553	1-126-942-61	ELECT	1000uF	20%	25V
C364	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V						

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C560	1-130-483-00	MYLAR	0.01uF 5% 50V				
C561	1-130-483-00	MYLAR	0.01uF 5% 50V			< IC >	
C562	1-126-933-11	ELECT	100uF 20% 16V				
C563	1-126-925-91	ELECT	470uF 20% 10V				
C564	1-100-566-91	CERAMIC CHIP	0.1uF 10% 25V	IC101	6-703-650-11	IC M61529FP-D60G	
				IC301	6-702-130-01	IC HA12237F	
				IC401	6-806-611-01	IC M30622MEP-A77FPU0	
				IC402	6-705-809-01	IC BD4929G-TR	
				IC550	6-703-610-01	IC RT8H015C-T112-1	
C565	1-100-566-91	CERAMIC CHIP	0.1uF 10% 25V				
C566	1-128-548-11	ELECT	4700uF 20% 25V				
C567	1-100-566-91	CERAMIC CHIP	0.1uF 10% 25V				
C568	1-126-916-11	ELECT	1000uF 20% 6.3V	IC560	8-759-394-36	IC BA09T	
C580	1-164-156-11	CERAMIC CHIP	0.1uF 25V	IC561	6-703-550-01	IC TA7809LS	
				IC562	6-702-771-01	IC TA78033LS	
C581	1-164-156-11	CERAMIC CHIP	0.1uF 25V			< JACK >	
		< CONNECTOR >					
CN100	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P		J101	1-794-981-11	JACK, PIN 4P (AUDIO IN)	
CN402	1-785-336-11	PIN, CONNECTOR (LIGHT ANGLE) 10P				< JUMPER RESISTOR >	
CN501	1-573-845-11	CONNECTOR, BOARD TO BOARD 13P					
* CN502	1-774-876-21	CONNECTOR, BOARD TO BOARD 8P		JR001	1-216-864-11	SHORT CHIP	0
CN503	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P		JR002	1-216-296-11	SHORT CHIP	0
				JR003	1-216-864-11	SHORT CHIP	0
				JR004	1-216-864-11	SHORT CHIP	0
CN505	1-819-027-11	FFC/FPC CONNECTOR (ZIF) 27P		JR005	1-216-864-11	SHORT CHIP	0
CN506	1-568-441-11	SOCKET, CONNECTOR 9P					
* CN507	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P		JR007	1-216-296-11	SHORT CHIP	0
* CN508	1-569-934-11	SOCKET, CONNECTOR 17P		JR009	1-216-864-11	SHORT CHIP	0
* CN509	1-569-930-11	SOCKET, CONNECTOR 13P		JR010	1-216-864-11	SHORT CHIP	0
				JR012	1-216-864-11	SHORT CHIP	0
* CN510	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P		JR014	1-216-864-11	SHORT CHIP	0
CN580	1-564-506-11	PLUG, CONNECTOR 3P					
		< DIODE >		JR015	1-216-864-11	SHORT CHIP	0
D340	6-501-193-01	DIODE 1SS355WTE-17		JR016	1-216-864-11	SHORT CHIP	0
D341	6-501-193-01	DIODE 1SS355WTE-17		JR017	1-216-864-11	SHORT CHIP	0
D342	6-501-193-01	DIODE 1SS355WTE-17		JR018	1-216-864-11	SHORT CHIP	0
D401	6-501-193-01	DIODE 1SS355WTE-17		JR019	1-216-864-11	SHORT CHIP	0
D402	6-501-193-01	DIODE 1SS355WTE-17					
				JR020	1-216-864-11	SHORT CHIP	0
D501	6-501-193-01	DIODE 1SS355WTE-17		JR021	1-216-864-11	SHORT CHIP	0
D502	6-501-193-01	DIODE 1SS355WTE-17		JR022	1-216-864-11	SHORT CHIP	0
D503	6-501-193-01	DIODE 1SS355WTE-17		JR028	1-216-864-11	SHORT CHIP	0
D504	6-501-193-01	DIODE 1SS355WTE-17		JR029	1-216-864-11	SHORT CHIP	0
D505	6-501-193-01	DIODE 1SS355WTE-17					
				JR030	1-216-864-11	SHORT CHIP	0
D550	6-501-193-01	DIODE 1SS355WTE-17		JR031	1-216-864-11	SHORT CHIP	0
D560	8-719-028-23	DIODE D3SBA20-4101		JR032	1-216-864-11	SHORT CHIP	0
D561	6-500-522-21	DIODE 10EDB40-TB3		JR034	1-216-864-11	SHORT CHIP	0
D562	6-500-522-21	DIODE 10EDB40-TB3		JR035	1-216-864-11	SHORT CHIP	0
D581	8-719-056-82	DIODE UDZ-TE-17-6.2B					
				JR036	1-216-296-11	SHORT CHIP	0
D583	8-719-056-83	DIODE UDZ-TE-17-6.8B		JR138	1-216-864-11	SHORT CHIP	0
		< FERRITE BEAD >		JR261	1-216-864-11	SHORT CHIP	0
				JR359	1-216-864-11	SHORT CHIP	0
FB150	1-216-864-11	SHORT CHIP	0	JR390	1-216-864-11	SHORT CHIP	0
FB260	1-216-864-11	SHORT CHIP	0				
FB261	1-216-864-11	SHORT CHIP	0	JR465	1-216-864-11	SHORT CHIP	0
FB262	1-216-864-11	SHORT CHIP	0	JR466	1-216-864-11	SHORT CHIP	0
FB263	1-216-864-11	SHORT CHIP	0	JR467	1-216-864-11	SHORT CHIP	0
				JR468	1-216-864-11	SHORT CHIP	0
FB506	1-500-283-11	INDUCTOR, FERRITE BEAD		JR507	1-216-864-11	SHORT CHIP	0
FB507	1-500-283-11	INDUCTOR, FERRITE BEAD				< COIL >	
FB508	1-500-283-11	INDUCTOR, FERRITE BEAD		L302	1-414-189-31	INDUCTOR	100uH
FB509	1-500-283-11	INDUCTOR, FERRITE BEAD		L370	1-410-780-11	INDUCTOR	27mH
FB510	1-500-283-11	INDUCTOR, FERRITE BEAD		L371	1-410-780-11	INDUCTOR	27mH
FB512	1-500-283-11	INDUCTOR, FERRITE BEAD		L372	1-414-189-31	INDUCTOR	100uH

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MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< TRANSISTOR >							
Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R130	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q151	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R131	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q180	8-729-802-80	TRANSISTOR 2SC3661		R132	1-216-857-11	METAL CHIP 1M 5%	1/10W
Q181	8-729-802-80	TRANSISTOR 2SC3661		R133	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q250	8-729-802-80	TRANSISTOR 2SC3661		R140	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q251	8-729-802-80	TRANSISTOR 2SC3661		R150	1-216-809-11	METAL CHIP 100 5%	1/10W
Q280	8-729-802-80	TRANSISTOR 2SC3661		R151	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q281	8-729-802-80	TRANSISTOR 2SC3661		R152	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q340	8-729-903-46	TRANSISTOR 2SB1132-P		R153	1-216-818-11	METAL CHIP 560 5%	1/10W
Q341	8-729-903-46	TRANSISTOR 2SB1132-P		R154	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q342	8-729-903-46	TRANSISTOR 2SB1132-P		R155	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q343	8-729-027-43	TRANSISTOR DTC114EKA-T146		R156	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q344	8-729-027-43	TRANSISTOR DTC114EKA-T146		R157	1-216-813-11	METAL CHIP 220 5%	1/10W
Q345	8-729-027-43	TRANSISTOR DTC114EKA-T146		R166	1-216-809-11	METAL CHIP 100 5%	1/10W
Q370	8-729-141-75	TRANSISTOR 2SD596DV345		R180	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q371	8-729-802-80	TRANSISTOR 2SC3661		R181	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q372	8-729-802-80	TRANSISTOR 2SC3661		R182	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q373	8-729-802-80	TRANSISTOR 2SC3661		R183	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q374	8-729-802-80	TRANSISTOR 2SC3661		R184	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q375	8-729-802-80	TRANSISTOR 2SC3661		R185	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q376	8-729-802-80	TRANSISTOR 2SC3661		R186	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q377	6-550-580-01	TRANSISTOR 2SA1235TP-1F		R187	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q378	6-550-185-01	TRANSISTOR RT1P137P-TP-1		R250	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q379	8-729-027-43	TRANSISTOR DTC114EKA-T146		R251	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q380	8-729-027-43	TRANSISTOR DTC114EKA-T146		R252	1-216-839-11	METAL CHIP 33K 5%	1/10W
Q381	8-729-027-43	TRANSISTOR DTC114EKA-T146		R253	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q382	8-729-027-23	TRANSISTOR DTA114EKA-T146		R254	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q383	8-729-027-43	TRANSISTOR DTC114EKA-T146		R255	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q501	8-729-901-00	TRANSISTOR DTC124EK		R256	1-216-839-11	METAL CHIP 33K 5%	1/10W
Q504	8-729-027-23	TRANSISTOR DTA114EKA-T146		R257	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q505	8-729-901-00	TRANSISTOR DTC124EK		R260	1-216-864-11	SHORT CHIP 0	
Q540	8-729-027-31	TRANSISTOR DTA124EKA-T146		R261	1-216-864-11	SHORT CHIP 0	
Q541	8-729-027-43	TRANSISTOR DTC114EKA-T146		R262	1-216-864-11	SHORT CHIP 0	
Q542	8-729-027-31	TRANSISTOR DTA124EKA-T146		R263	1-216-864-11	SHORT CHIP 0	
Q543	8-729-027-43	TRANSISTOR DTC114EKA-T146		R264	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q544	8-729-027-31	TRANSISTOR DTA124EKA-T146		R265	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q545	8-729-027-43	TRANSISTOR DTC114EKA-T146		R266	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q560	6-550-185-01	TRANSISTOR RT1P137P-TP-1		R267	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q561	8-729-027-43	TRANSISTOR DTC114EKA-T146		R268	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q580	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R269	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q582	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R270	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q583	8-729-027-31	TRANSISTOR DTA124EKA-T146		R271	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q584	8-729-027-43	TRANSISTOR DTC114EKA-T146		R272	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q585	8-729-026-68	TRANSISTOR 2SD2525 (TP)		R273	1-216-833-11	METAL CHIP 10K 5%	1/10W
< RESISTOR >							
R101	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R274	1-216-841-11	METAL CHIP 47K 5%	1/10W
R102	1-216-833-11	METAL CHIP 10K 5%	1/10W	R281	1-216-833-11	METAL CHIP 10K 5%	1/10W
R103	1-216-818-11	METAL CHIP 560 5%	1/10W	R282	1-216-839-11	METAL CHIP 33K 5%	1/10W
R104	1-216-821-11	METAL CHIP 1K 5%	1/10W	R285	1-216-833-11	METAL CHIP 10K 5%	1/10W
R105	1-216-841-11	METAL CHIP 47K 5%	1/10W	R286	1-216-839-11	METAL CHIP 33K 5%	1/10W
R106	1-216-833-11	METAL CHIP 10K 5%	1/10W	R290	1-216-841-11	METAL CHIP 47K 5%	1/10W
R107	1-216-813-11	METAL CHIP 220 5%	1/10W	R291	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R116	1-216-809-11	METAL CHIP 100 5%	1/10W	R292	1-216-841-11	METAL CHIP 47K 5%	1/10W
R121	1-216-833-11	METAL CHIP 10K 5%	1/10W	R293	1-216-841-11	METAL CHIP 47K 5%	1/10W
R122	1-216-833-11	METAL CHIP 10K 5%	1/10W	R294	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
				R295	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R296	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
				R297	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R301	1-216-827-11	METAL CHIP 3.3K 5%	1/10W

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R302	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R394	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R303	1-216-833-11	METAL CHIP	10K 5% 1/10W	R395	1-216-841-11	METAL CHIP	47K 5% 1/10W
R304	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R396	1-216-833-11	METAL CHIP	10K 5% 1/10W
R305	1-216-841-11	METAL CHIP	47K 5% 1/10W	R397	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R306	1-216-837-11	METAL CHIP	22K 5% 1/10W	R399	1-216-833-11	METAL CHIP	10K 5% 1/10W
R307	1-216-857-11	METAL CHIP	1M 5% 1/10W	R400	1-216-809-11	METAL CHIP	100 5% 1/10W
R308	1-216-809-11	METAL CHIP	100 5% 1/10W	R401	1-216-809-11	METAL CHIP	100 5% 1/10W
R309	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R402	1-216-809-11	METAL CHIP	100 5% 1/10W
R310	1-216-809-11	METAL CHIP	100 5% 1/10W	R403	1-216-809-11	METAL CHIP	100 5% 1/10W
R311	1-216-864-11	SHORT CHIP	0	R404	1-216-809-11	METAL CHIP	100 5% 1/10W
R312	1-216-809-11	METAL CHIP	100 5% 1/10W	R405	1-216-809-11	METAL CHIP	100 5% 1/10W
R319	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R406	1-216-809-11	METAL CHIP	100 5% 1/10W
R336	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	R407	1-216-809-11	METAL CHIP	100 5% 1/10W
R337	1-216-833-11	METAL CHIP	10K 5% 1/10W	R409	1-216-833-11	METAL CHIP	10K 5% 1/10W
R339	1-216-837-11	METAL CHIP	22K 5% 1/10W	R411	1-216-851-11	METAL CHIP	330K 5% 1/10W
R340	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R412	1-216-845-11	METAL CHIP	100K 5% 1/10W
R341	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R413	1-216-864-11	SHORT CHIP	0
R342	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R417	1-216-833-11	METAL CHIP	10K 5% 1/10W
R343	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R418	1-216-813-11	METAL CHIP	220 5% 1/10W
R344	1-216-819-11	METAL CHIP	680 5% 1/10W	R419	1-216-809-11	METAL CHIP	100 5% 1/10W
R345	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R420	1-216-821-11	METAL CHIP	1K 5% 1/10W
R346	1-216-819-11	METAL CHIP	680 5% 1/10W	R421	1-216-809-11	METAL CHIP	100 5% 1/10W
R347	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R422	1-216-809-11	METAL CHIP	100 5% 1/10W
R348	1-216-819-11	METAL CHIP	680 5% 1/10W	R423	1-216-809-11	METAL CHIP	100 5% 1/10W
R349	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R424	1-216-809-11	METAL CHIP	100 5% 1/10W
R351	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R425	1-216-809-11	METAL CHIP	100 5% 1/10W
R352	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R426	1-216-809-11	METAL CHIP	100 5% 1/10W
R353	1-216-833-11	METAL CHIP	10K 5% 1/10W	R427	1-216-809-11	METAL CHIP	100 5% 1/10W
R354	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R428	1-216-809-11	METAL CHIP	100 5% 1/10W
R355	1-216-841-11	METAL CHIP	47K 5% 1/10W	R429	1-216-809-11	METAL CHIP	100 5% 1/10W
R356	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	R430	1-216-809-11	METAL CHIP	100 5% 1/10W
R357	1-216-833-11	METAL CHIP	10K 5% 1/10W	R431	1-216-809-11	METAL CHIP	100 5% 1/10W
R369	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R432	1-216-809-11	METAL CHIP	100 5% 1/10W
R370	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R433	1-216-809-11	METAL CHIP	100 5% 1/10W
R371	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R434	1-216-809-11	METAL CHIP	100 5% 1/10W
R372	1-216-833-11	METAL CHIP	10K 5% 1/10W	R438	1-216-809-11	METAL CHIP	100 5% 1/10W
R373	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R439	1-216-809-11	METAL CHIP	100 5% 1/10W
R374	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R440	1-216-809-11	METAL CHIP	100 5% 1/10W
R375	1-216-833-11	METAL CHIP	10K 5% 1/10W	R441	1-216-809-11	METAL CHIP	100 5% 1/10W
R376	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R442	1-216-809-11	METAL CHIP	100 5% 1/10W
R377	1-216-805-11	METAL CHIP	47 5% 1/10W	R443	1-216-809-11	METAL CHIP	100 5% 1/10W
R378	1-216-833-11	METAL CHIP	10K 5% 1/10W	R444	1-216-809-11	METAL CHIP	100 5% 1/10W
R379	1-216-797-11	METAL CHIP	10 5% 1/10W	R445	1-216-809-11	METAL CHIP	100 5% 1/10W
R380	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	R446	1-216-809-11	METAL CHIP	100 5% 1/10W
R381	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R447	1-216-809-11	METAL CHIP	100 5% 1/10W
R382	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R448	1-216-809-11	METAL CHIP	100 5% 1/10W
R383	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R451	1-216-809-11	METAL CHIP	100 5% 1/10W
R384	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R452	1-216-809-11	METAL CHIP	100 5% 1/10W
R385	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R463	1-216-833-11	METAL CHIP	10K 5% 1/10W
R386	1-216-803-11	METAL CHIP	33 5% 1/10W	R469	1-216-809-11	METAL CHIP	100 5% 1/10W
R387	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R470	1-216-809-11	METAL CHIP	100 5% 1/10W
R388	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	R472	1-216-809-11	METAL CHIP	100 5% 1/10W
R389	1-216-837-11	METAL CHIP	22K 5% 1/10W	R475	1-216-809-11	METAL CHIP	100 5% 1/10W
R390	1-216-833-11	METAL CHIP	10K 5% 1/10W	R476	1-216-809-11	METAL CHIP	100 5% 1/10W
R391	1-216-833-11	METAL CHIP	10K 5% 1/10W	R477	1-216-809-11	METAL CHIP	100 5% 1/10W
R392	1-216-833-11	METAL CHIP	10K 5% 1/10W	R478	1-216-809-11	METAL CHIP	100 5% 1/10W
R393	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R484	1-216-809-11	METAL CHIP	100 5% 1/10W
				R485	1-216-809-11	METAL CHIP	100 5% 1/10W

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MAIN **MIC**

Ref. No.	Part No.	Description	Quantity	Power	Remarks	Ref. No.	Part No.	Description	Quantity	Power	Remarks
R486	1-216-809-11	METAL CHIP	100	5%	1/10W	C1101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R487	1-216-809-11	METAL CHIP	100	5%	1/10W	C1102	1-124-257-00	ELECT	2.2uF	20%	50V
R488	1-216-809-11	METAL CHIP	100	5%	1/10W	C1103	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
R489	1-216-809-11	METAL CHIP	100	5%	1/10W	C1104	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
R490	1-216-809-11	METAL CHIP	100	5%	1/10W	C1105	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
R492	1-216-815-11	METAL CHIP	330	5%	1/10W	C1106	1-124-257-00	ELECT	2.2uF	20%	50V
R493	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C1108	1-124-257-00	ELECT	2.2uF	20%	50V
R500	1-216-833-11	METAL CHIP	10K	5%	1/10W	C1109	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
R501	1-216-813-11	METAL CHIP	220	5%	1/10W	C1110	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
R502	1-216-821-11	METAL CHIP	1K	5%	1/10W	C1111	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
R503	1-216-864-11	SHORT CHIP	0			C1112	1-124-261-00	ELECT	10uF	20%	50V
R505	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C1113	1-124-261-00	ELECT	10uF	20%	50V
R529	1-216-833-11	METAL CHIP	10K	5%	1/10W	C1114	1-124-464-11	ELECT	0.22uF	20%	50V
R530	1-216-833-11	METAL CHIP	10K	5%	1/10W	C1115	1-126-961-11	ELECT	2.2uF	20%	50V
R532	1-216-864-11	SHORT CHIP	0			C1116	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
R538	1-216-833-11	METAL CHIP	10K	5%	1/10W	C1117	1-126-960-11	ELECT	1uF	20%	50V
R540	1-216-843-11	METAL CHIP	68K	5%	1/10W	C1118	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
R541	1-216-835-11	METAL CHIP	15K	5%	1/10W	C1119	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
R542	1-216-853-11	METAL CHIP	470K	5%	1/10W	C1120	1-136-495-11	FILM	0.068uF	5%	50V
R543	1-216-843-11	METAL CHIP	68K	5%	1/10W	C1121	1-124-589-11	ELECT	47uF	20%	16V
R544	1-216-835-11	METAL CHIP	15K	5%	1/10W	C1122	1-124-589-11	ELECT	47uF	20%	16V
R545	1-216-853-11	METAL CHIP	470K	5%	1/10W	C1123	1-136-495-11	FILM	0.068uF	5%	50V
R546	1-216-843-11	METAL CHIP	68K	5%	1/10W	C1124	1-126-960-11	ELECT	1uF	20%	50V
R547	1-216-835-11	METAL CHIP	15K	5%	1/10W	C1125	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
R548	1-216-853-11	METAL CHIP	470K	5%	1/10W	C1126	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
R560	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	C1127	1-136-495-11	FILM	0.068uF	5%	50V
R562	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C1128	1-126-957-11	ELECT	0.22uF	20%	50V
R563	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C1129	1-126-957-11	ELECT	0.22uF	20%	50V
R570	1-216-833-11	METAL CHIP	10K	5%	1/10W	C1130	1-136-155-00	FILM	0.015uF	5%	50V
R571	1-216-833-11	METAL CHIP	10K	5%	1/10W	C1131	1-126-176-11	ELECT	220uF	20%	10V
R573	1-216-833-11	METAL CHIP	10K	5%	1/10W	C1133	1-113-619-11	CERAMIC CHIP	0.47uF		10V
R574	1-216-833-11	METAL CHIP	10K	5%	1/10W	C1139	1-126-160-11	ELECT	1uF	20%	50V
R575	1-216-821-11	METAL CHIP	1K	5%	1/10W	C1142	1-216-864-11	SHORT CHIP	0		
R577	1-216-845-11	METAL CHIP	100K	5%	1/10W			< CONNECTOR >			
R579	1-216-833-11	METAL CHIP	10K	5%	1/10W	CN1102	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P			
R580	1-216-833-11	METAL CHIP	10K	5%	1/10W			< DIODE >			
R582	1-216-864-11	SHORT CHIP	0			D1100	6-501-193-01	DIODE 1SS355WTE-17			
R585	1-216-833-11	METAL CHIP	10K	5%	1/10W	D1101	6-501-193-01	DIODE 1SS355WTE-17			
R586	1-216-833-11	METAL CHIP	10K	5%	1/10W	D1102	8-719-976-99	DIODE DTZ5.1B			
R587	1-216-833-11	METAL CHIP	10K	5%	1/10W			< FERRITE BEAD >			
R591	1-216-835-11	METAL CHIP	15K	5%	1/10W	FB1100	1-216-864-11	SHORT CHIP	0		
R592	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	FB1101	1-216-864-11	SHORT CHIP	0		
R593	1-216-825-11	METAL CHIP	2.2K	5%	1/10W			< IC >			
		< TRANSFORMER >				IC1100	8-759-710-97	IC NJM4565M-D			
T301	1-433-372-11	TRANSFORMER, BIAS OSCILLATION				IC1101	8-759-496-41	IC M65850FP-E1			
		< VIBRATOR >						< JACK >			
X401	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)				J1100	1-817-629-11	JACK (LARGE TYPE) (MIC 1)			
X402	1-795-482-11	VIBRATOR, CERAMIC (16MHz)				J1101	1-817-629-11	JACK (LARGE TYPE) (MIC 2)			
		*****				J1103	1-794-702-11	JACK, HEADPHONE (PHONES)			
	A-1089-466-A	MIC BOARD, COMPLETE						< JUMPER RESISTOR >			
		*****				JR1101	1-216-864-11	SHORT CHIP	0		
		< CAPACITOR >									
C1100	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						

MIC MOTOR (LD) MOTOR (TB) PA

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
JR1102	1-216-864-11	SHORT CHIP	0			< CAPACITOR >	
JR1103	1-216-296-11	SHORT CHIP	0				
JR1104	1-216-296-11	SHORT CHIP	0				
JR1105	1-216-296-11	SHORT CHIP	0				
JR1106	1-216-864-11	SHORT CHIP	0				
JR1108	1-216-864-11	SHORT CHIP	0				
JR1113	1-216-296-11	SHORT CHIP	0				
JR1114	1-216-296-11	SHORT CHIP	0				
		< RESISTOR >					
R1100	1-216-833-11	METAL CHIP	10K	5%	1/10W		
R1101	1-216-821-11	METAL CHIP	1K	5%	1/10W		
R1102	1-216-833-11	METAL CHIP	10K	5%	1/10W		
R1103	1-216-821-11	METAL CHIP	1K	5%	1/10W		
R1104	1-216-845-11	METAL CHIP	100K	5%	1/10W		
R1105	1-216-821-11	METAL CHIP	1K	5%	1/10W		
R1106	1-216-841-11	METAL CHIP	47K	5%	1/10W		
R1107	1-216-809-11	METAL CHIP	100	5%	1/10W		
R1108	1-216-833-11	METAL CHIP	10K	5%	1/10W		
R1109	1-216-847-11	METAL CHIP	150K	5%	1/10W		
R1110	1-216-809-11	METAL CHIP	100	5%	1/10W		
R1111	1-216-845-11	METAL CHIP	100K	5%	1/10W		
R1113	1-216-835-11	METAL CHIP	15K	5%	1/10W		
R1114	1-216-835-11	METAL CHIP	15K	5%	1/10W		
R1115	1-216-815-11	METAL CHIP	330	5%	1/10W		
R1116	1-216-815-11	METAL CHIP	330	5%	1/10W		
R1117	1-216-835-11	METAL CHIP	15K	5%	1/10W		
R1118	1-216-835-11	METAL CHIP	15K	5%	1/10W		
R1119	1-216-835-11	METAL CHIP	15K	5%	1/10W		
R1120	1-216-846-11	METAL CHIP	120K	5%	1/10W		
R1121	1-216-835-11	METAL CHIP	15K	5%	1/10W		
R1122	1-216-835-11	METAL CHIP	15K	5%	1/10W		
R1123	1-216-835-11	METAL CHIP	15K	5%	1/10W		
R1124	1-216-841-11	METAL CHIP	47K	5%	1/10W		
R1125	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		
R1126	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		
R1132	1-216-864-11	SHORT CHIP	0				
		< VARIABLE RESISTOR >					
RV1100	1-227-452-11	RES, VAR, CARBON 50K (MIC LEVEL)					
RV1101	1-227-452-11	RES, VAR, CARBON 50K (ECHO LEVEL)					

	1-687-133-12	MOTOR (LD) BOARD					

	1-687-134-12	MOTOR (TB) BOARD					

		< CONNECTOR >					
CN742	1-784-727-11	CONNECTOR, FFC 5P					

	A-1089-586-A	PA BOARD, COMPLETE					

C600	1-126-963-11	ELECT	4.7uF	20%	50V		
C601	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V		
C602	1-104-658-91	ELECT	100uF	20%	10V		
C604	1-162-960-11	CERAMIC CHIP	220PF	10%	50V		
C605	1-131-992-91	CERAMIC CHIP	100000PF		35V		
C608	1-126-965-91	ELECT	22uF	20%	50V		
C609	1-128-560-11	ELECT	22uF	20%	100V		
C610	1-128-560-11	ELECT	22uF	20%	100V		
C616	1-136-495-11	FILM	0.068uF	5%	50V		
C617	1-136-495-11	FILM	0.068uF	5%	50V		
C618	1-128-582-11	ELECT	10uF	20%	100V		
C619	1-128-582-11	ELECT	10uF	20%	100V		
C634	1-104-665-11	ELECT	100uF	20%	25V		
C635	1-104-665-11	ELECT	100uF	20%	25V		
C636	1-107-721-11	ELECT	4.7uF	20%	100V		
C637	1-107-721-11	ELECT	4.7uF	20%	100V		
C648	1-104-658-91	ELECT	100uF	20%	10V		
C649	1-126-964-11	ELECT	10uF	20%	50V		
C650	1-126-963-11	ELECT	4.7uF	20%	50V		
C651	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V		
C652	1-104-658-91	ELECT	100uF	20%	10V		
C654	1-162-960-11	CERAMIC CHIP	220PF	10%	50V		
C655	1-126-964-11	ELECT	10uF	20%	50V		
C656	1-127-815-11	ELECT	3300uF	20%	100V		
C658	1-127-811-11	ELECT	3300uF	20%	50V		
C660	1-131-992-91	CERAMIC CHIP	100000PF		35V		
C666	1-136-495-11	FILM	0.068uF	5%	50V		
C667	1-136-495-11	FILM	0.068uF	5%	50V		
C676	1-127-815-11	ELECT	3300uF	20%	100V		
C678	1-127-811-11	ELECT	3300uF	20%	50V		
C681	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V		
C682	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V		
C683	1-131-992-91	CERAMIC CHIP	100000PF		35V		
C691	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V		
C692	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V		
C693	1-131-992-91	CERAMIC CHIP	100000PF		35V		
		< CONNECTOR >					
CN600	1-764-865-41	CONNECTOR, BOARD TO BOARD 13P					
CN601	1-784-031-41	CONNECTOR, BOARD TO BOARD 8P					
		< DIODE >					
D609	6-501-193-01	DIODE 1SS355WTE-17					
D611	8-719-056-93	DIODE UDZ-TE-17-18B					
D612	8-719-056-93	DIODE UDZ-TE-17-18B					
D620	6-501-193-01	DIODE 1SS355WTE-17					
D624	6-501-193-01	DIODE 1SS355WTE-17					
D646	6-501-193-01	DIODE 1SS355WTE-17					
D654	6-501-193-01	DIODE 1SS355WTE-17					
D655	6-501-193-01	DIODE 1SS355WTE-17					
D656	8-719-500-60	DIODE D5SBA20					
D658	8-719-500-60	DIODE D5SBA20					
D660	6-501-193-01	DIODE 1SS355WTE-17					
D661	6-501-193-01	DIODE 1SS355WTE-17					
D665	6-501-193-01	DIODE 1SS355WTE-17					
D670	6-501-193-01	DIODE 1SS355WTE-17					

HCD-LX10000

PA

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< IC >					
IC600	8-749-017-06	IC STK412-150		R630	1-216-845-11	METAL CHIP 100K 5%	1/10W
		< JUMPER RESISTOR >		R631	1-216-845-11	METAL CHIP 100K 5%	1/10W
JR600	1-216-296-11	SHORT CHIP 0		R632	1-216-845-11	METAL CHIP 100K 5%	1/10W
JR603	1-216-296-11	SHORT CHIP 0		R633	1-216-842-11	METAL CHIP 56K 5%	1/10W
		< TRANSISTOR >		R634	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q604	8-729-924-99	TRANSISTOR 2SC3722K-E		R635	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q606	8-729-821-00	TRANSISTOR 2SA1207		R636	1-215-891-11	METAL OXIDE 680 5%	2W
Q610	8-729-924-99	TRANSISTOR 2SC3722K-E		R637	1-215-891-11	METAL OXIDE 680 5%	2W
Q618	8-729-924-99	TRANSISTOR 2SC3722K-E		R638	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q628	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R639	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q629	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R640	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q630	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R641	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q634	8-729-027-31	TRANSISTOR DTA124EKA-T146		R642	1-216-811-11	METAL CHIP 150 5%	1/10W
Q640	8-729-802-80	TRANSISTOR 2SC3661		R643	1-216-811-11	METAL CHIP 150 5%	1/10W
Q641	8-729-802-80	TRANSISTOR 2SC3661		R644	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q644	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R645	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q647	8-729-120-28	TRANSISTOR 2SC1623-L5L6		△R646	1-260-086-31	CARBON 82 5%	1/2W
Q648	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R647	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q666	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R648	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q668	8-729-924-99	TRANSISTOR 2SC3722K-E		R649	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q682	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R650	1-216-821-11	METAL CHIP 1K 5%	1/10W
		< RESISTOR >		R651	1-216-841-11	METAL CHIP 47K 5%	1/10W
R600	1-216-821-11	METAL CHIP 1K 5%	1/10W	R652	1-216-817-11	METAL CHIP 470 5%	1/10W
R601	1-216-841-11	METAL CHIP 47K 5%	1/10W	R653	1-216-841-11	METAL CHIP 47K 5%	1/10W
R602	1-216-817-11	METAL CHIP 470 5%	1/10W	R654	1-216-841-11	METAL CHIP 47K 5%	1/10W
R603	1-216-841-11	METAL CHIP 47K 5%	1/10W	R655	1-216-841-11	METAL CHIP 47K 5%	1/10W
R604	1-216-833-11	METAL CHIP 10K 5%	1/10W	R656	1-216-849-11	METAL CHIP 220K 5%	1/10W
R605	1-216-833-11	METAL CHIP 10K 5%	1/10W	R657	1-216-849-11	METAL CHIP 220K 5%	1/10W
R606	1-216-841-11	METAL CHIP 47K 5%	1/10W	R658	1-216-845-11	METAL CHIP 100K 5%	1/10W
R607	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R660	1-216-837-11	METAL CHIP 22K 5%	1/10W
R608	1-216-845-11	METAL CHIP 100K 5%	1/10W	R661	1-216-837-11	METAL CHIP 22K 5%	1/10W
R609	1-216-843-11	METAL CHIP 68K 5%	1/10W	R662	1-216-811-11	METAL CHIP 150 5%	1/10W
R610	1-216-843-11	METAL CHIP 68K 5%	1/10W	R663	1-216-811-11	METAL CHIP 150 5%	1/10W
R611	1-216-839-11	METAL CHIP 33K 5%	1/10W	△R665	1-260-086-31	CARBON 82 5%	1/2W
△R612	1-245-605-51	FUSIBLE 100 5%	1/4W	R666	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R613	1-215-872-11	METAL OXIDE 3.3K 5%	1W	R667	1-216-833-11	METAL CHIP 10K 5%	1/10W
R614	1-215-872-11	METAL OXIDE 3.3K 5%	1W	△R668	1-234-798-11	ENCAPSULATED COMPONENT	
△R615	1-245-605-51	FUSIBLE 100 5%	1/4W	R669	1-216-821-11	METAL CHIP 1K 5%	1/10W
△R616	1-217-637-00	FUSIBLE 1 5%	1/4W	R670	1-216-839-11	METAL CHIP 33K 5%	1/10W
R617	1-216-845-11	METAL CHIP 100K 5%	1/10W	R671	1-216-845-11	METAL CHIP 100K 5%	1/10W
△R618	1-234-798-11	ENCAPSULATED COMPONENT		R672	1-245-711-31	CARBON 10 5%	1/2W
R619	1-216-821-11	METAL CHIP 1K 5%	1/10W	R673	1-216-842-11	METAL CHIP 56K 5%	1/10W
R620	1-216-839-11	METAL CHIP 33K 5%	1/10W	R674	1-216-837-11	METAL CHIP 22K 5%	1/10W
R621	1-216-845-11	METAL CHIP 100K 5%	1/10W	R676	1-216-849-11	METAL CHIP 220K 5%	1/10W
R622	1-245-711-31	CARBON 10 5%	1/2W	R677	1-216-849-11	METAL CHIP 220K 5%	1/10W
R623	1-216-843-11	METAL CHIP 68K 5%	1/10W	R678	1-216-845-11	METAL CHIP 100K 5%	1/10W
R624	1-216-837-11	METAL CHIP 22K 5%	1/10W	R681	1-245-711-31	CARBON 10 5%	1/2W
R625	1-216-826-11	METAL CHIP 2.7K 5%	1/10W	R682	1-216-821-11	METAL CHIP 1K 5%	1/10W
R626	1-216-842-11	METAL CHIP 56K 5%	1/10W	R683	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R627	1-216-821-11	METAL CHIP 1K 5%	1/10W	R685	1-216-833-11	METAL CHIP 10K 5%	1/10W
R628	1-216-837-11	METAL CHIP 22K 5%	1/10W	R691	1-245-711-31	CARBON 10 5%	1/2W
R629	1-216-830-11	METAL CHIP 5.6K 5%	1/10W	R692	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R693	1-216-845-11	METAL CHIP 100K 5%	1/10W
				R694	1-216-843-11	METAL CHIP 68K 5%	1/10W
				R695	1-216-845-11	METAL CHIP 100K 5%	1/10W
				R696	1-216-845-11	METAL CHIP 100K 5%	1/10W
				R697	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
				R698	1-216-845-11	METAL CHIP 100K 5%	1/10W

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< RELAY >		C947	1-125-837-91	CERAMIC CHIP 1uF 10%	6.3V
				C948	1-164-315-11	CERAMIC CHIP 470PF 5%	50V
RY646	1-755-500-11	RELAY		C949	1-125-837-91	CERAMIC CHIP 1uF 10%	6.3V
RY665	1-755-500-11	RELAY		C950	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
		< THERMISTOR >		C951	1-125-837-91	CERAMIC CHIP 1uF 10%	6.3V
TH629	1-807-796-11	THERMISTOR		C952	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
TH630	1-807-796-11	THERMISTOR		C953	1-125-837-91	CERAMIC CHIP 1uF 10%	6.3V
		< TERMINAL >		C954	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V
TM600	1-780-001-21	TERMINAL BOARD (SPEAKER) (FRONT SPEAKER)		C955	1-125-837-91	CERAMIC CHIP 1uF 10%	6.3V
TM601	1-780-001-21	TERMINAL BOARD (SPEAKER) (SURR SPEAKER)		C956	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V

A-1089-463-A		PANEL BOARD, COMPLETE		C957	1-125-837-91	CERAMIC CHIP 1uF 10%	6.3V

		< CAPACITOR >		C958	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V
C900	1-126-163-11	ELECT 4.7uF	20% 50V	C959	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V
C901	1-164-230-11	CERAMIC CHIP 220PF	5% 50V	C961	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C902	1-164-230-11	CERAMIC CHIP 220PF	5% 50V	C966	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C903	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C970	1-119-941-91	ELECT 470uF 20%	6.3V
C904	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C971	1-119-941-91	ELECT 470uF 20%	6.3V
C905	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C972	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C906	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C973	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C907	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C977	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C908	1-164-230-11	CERAMIC CHIP 220PF	5% 50V	C978	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C909	1-164-230-11	CERAMIC CHIP 220PF	5% 50V	C979	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C910	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C980	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C916	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C981	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C917	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C982	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C918	1-119-941-91	ELECT 470uF	20% 6.3V	C983	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C919	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V			< CONNECTOR >	
C922	1-124-261-00	ELECT 10uF	20% 50V	* CN902	1-569-934-11	SOCKET, CONNECTOR 17P	
C923	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	CNS902	1-819-074-11	BOARD TO BOARD HEADER (8P)	
C924	1-162-927-11	CERAMIC CHIP 100PF	5% 50V			< DIODE >	
C925	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	D901	6-501-193-01	DIODE 1SS355WTE-17	
C926	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	D902	6-501-228-01	DIODE SELU5420E-STP15 (I/Ⓞ)	
C927	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	D903	6-500-522-21	DIODE 10EDB40-TB3	
C928	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	D904	6-500-522-21	DIODE 10EDB40-TB3	
C929	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	D905	8-719-056-83	DIODE UDJ-TE-17-6.8B	
C930	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	D906	6-501-227-01	DIODE SELU5620S-STP15 (CD)	
C931	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	D907	6-501-228-01	DIODE SELU5420E-STP15 (CD)	
C932	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	D908	6-501-227-01	DIODE SELU5620S-STP15 (TUNER/BAND)	
C933	1-164-315-11	CERAMIC CHIP 470PF	5% 50V	D909	6-501-228-01	DIODE SELU5420E-STP15 (TUNER/BAND)	
C934	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	D910	6-501-227-01	DIODE SELU5620S-STP15 (TAPE A/B)	
C935	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	D911	6-501-227-01	DIODE SELU5620S-STP15 (◀▶)	
C936	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	D912	6-501-227-01	DIODE SELU5620S-STP15 (■/■)	
C937	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	D913	6-501-227-01	DIODE SELU5620S-STP15 (TUNING+ ▶▶▶)	
C938	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	D914	6-501-227-01	DIODE SELU5620S-STP15 (ALBUM+ ▶▶)	
C939	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	D915	6-501-228-01	DIODE SELU5420E-STP15 (◀▶)	
C941	1-124-261-00	ELECT 10uF	20% 50V	D916	6-501-228-01	DIODE SELU5420E-STP15 (TAPE A/B)	
C942	1-124-261-00	ELECT 10uF	20% 50V	D917	6-501-227-01	DIODE SELU5620S-STP15 (TV)	
C944	1-124-261-00	ELECT 10uF	20% 50V	D918	6-501-228-01	DIODE SELU5420E-STP15 (TV)	
C945	1-125-837-91	CERAMIC CHIP 1uF	10% 6.3V	D925	6-501-227-01	DIODE SELU5620S-STP15 (VIDEO/MD)	
C946	1-164-315-11	CERAMIC CHIP 470PF	5% 50V	D926	6-501-228-01	DIODE SELU5420E-STP15 (VIDEO/MD)	
				D927	6-501-227-01	DIODE SELU5620S-STP15 (I/Ⓞ)	
				D928	6-501-227-01	DIODE SELU5620S-STP15 (■)	
				D929	6-501-227-01	DIODE SELU5620S-STP15 (TUNING- ◀◀◀)	
				D930	6-501-227-01	DIODE SELU5620S-STP15 (ALBUM- ◀◀)	

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PANEL

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< FERRITE BEAD >					
FB901	1-216-864-11	SHORT CHIP 0		R910	1-216-821-11	METAL CHIP 1K 5%	1/10W
		< FLUORESCENT INDICATOR >		R911	1-216-821-11	METAL CHIP 1K 5%	1/10W
FL901	1-519-794-21	VACUUM FLUORESCENT DISPLAYS		R912	1-216-809-11	METAL CHIP 100 5%	1/10W
		< IC >		R914	1-216-821-11	METAL CHIP 1K 5%	1/10W
IC902	6-805-078-01	IC MB90M407PF-G-144E1		R915	1-216-821-11	METAL CHIP 1K 5%	1/10W
IC903	6-600-210-01	IC RPM7240-H8 (■)		R917	1-216-845-11	METAL CHIP 100K 5%	1/10W
IC904	6-705-678-01	IC NJM2760V-TE2		R918	1-216-845-11	METAL CHIP 100K 5%	1/10W
		< JUMPER RESISTOR >		R919	1-216-845-11	METAL CHIP 100K 5%	1/10W
JR909	1-216-864-11	SHORT CHIP 0		R920	1-216-833-11	METAL CHIP 10K 5%	1/10W
JR910	1-216-864-11	SHORT CHIP 0		R922	1-216-857-11	METAL CHIP 1M 5%	1/10W
JR911	1-216-864-11	SHORT CHIP 0		R933	1-216-821-11	METAL CHIP 1K 5%	1/10W
JR912	1-216-296-11	SHORT CHIP 0		R939	1-216-821-11	METAL CHIP 1K 5%	1/10W
JR913	1-216-864-11	SHORT CHIP 0		R940	1-216-833-11	METAL CHIP 10K 5%	1/10W
JR914	1-216-864-11	SHORT CHIP 0		R941	1-216-809-11	METAL CHIP 100 5%	1/10W
JR915	1-216-809-11	METAL CHIP 100 5%	1/10W	R942	1-216-809-11	METAL CHIP 100 5%	1/10W
JR916	1-216-864-11	SHORT CHIP 0		R943	1-216-821-11	METAL CHIP 1K 5%	1/10W
JR917	1-216-864-11	SHORT CHIP 0		R944	1-216-805-11	METAL CHIP 47 5%	1/10W
JR918	1-216-864-11	SHORT CHIP 0		R945	1-216-839-11	METAL CHIP 33K 5%	1/10W
JR921	1-216-296-11	SHORT CHIP 0		R946	1-216-842-11	METAL CHIP 56K 5%	1/10W
JR922	1-216-296-11	SHORT CHIP 0		R947	1-216-821-11	METAL CHIP 1K 5%	1/10W
		< TRANSISTOR >		R948	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
Q900	8-729-027-23	TRANSISTOR DTA114EKA-T146		R949	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q901	8-729-027-56	TRANSISTOR DTC143TKA-T146		R950	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q902	8-729-027-56	TRANSISTOR DTC143TKA-T146		R951	1-216-830-11	METAL CHIP 5.6K 5%	1/10W
Q903	8-729-027-23	TRANSISTOR DTA114EKA-T146		R952	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q904	8-729-106-60	TRANSISTOR 2SB1115A-YQ		R953	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q905	8-729-106-60	TRANSISTOR 2SB1115A-YQ		R954	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q906	8-729-027-43	TRANSISTOR DTC114EKA-T146		R956	1-216-826-11	METAL CHIP 2.7K 5%	1/10W
Q907	8-729-027-43	TRANSISTOR DTC114EKA-T146		R957	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q908	8-729-027-43	TRANSISTOR DTC114EKA-T146		R958	1-216-817-11	METAL CHIP 470 5%	1/10W
Q909	8-729-027-43	TRANSISTOR DTC114EKA-T146		R959	1-216-819-11	METAL CHIP 680 5%	1/10W
Q910	8-729-027-43	TRANSISTOR DTC114EKA-T146		R960	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q914	8-729-027-56	TRANSISTOR DTC143TKA-T146		R961	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
Q915	8-729-027-43	TRANSISTOR DTC114EKA-T146		R962	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
Q916	8-729-027-43	TRANSISTOR DTC114EKA-T146		R963	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q917	8-729-027-43	TRANSISTOR DTC114EKA-T146		R964	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
Q918	8-729-027-43	TRANSISTOR DTC114EKA-T146		R965	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q919	8-729-027-43	TRANSISTOR DTC114EKA-T146		R966	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
Q920	8-729-027-43	TRANSISTOR DTC114EKA-T146		R967	1-216-833-11	METAL CHIP 10K 5%	1/10W
		< RESISTOR >		R968	1-216-835-11	METAL CHIP 15K 5%	1/10W
R900	1-216-833-11	METAL CHIP 10K 5%	1/10W	R969	1-216-819-11	METAL CHIP 680 5%	1/10W
R901	1-216-833-11	METAL CHIP 10K 5%	1/10W	R970	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
R902	1-216-833-11	METAL CHIP 10K 5%	1/10W	R971	1-216-821-11	METAL CHIP 1K 5%	1/10W
R903	1-216-809-11	METAL CHIP 100 5%	1/10W	R972	1-216-819-11	METAL CHIP 680 5%	1/10W
R904	1-216-809-11	METAL CHIP 100 5%	1/10W	R973	1-216-819-11	METAL CHIP 680 5%	1/10W
R905	1-216-835-11	METAL CHIP 15K 5%	1/10W	R974	1-216-819-11	METAL CHIP 680 5%	1/10W
R906	1-216-835-11	METAL CHIP 15K 5%	1/10W	R975	1-216-817-11	METAL CHIP 470 5%	1/10W
R907	1-216-835-11	METAL CHIP 15K 5%	1/10W	R977	1-216-821-11	METAL CHIP 1K 5%	1/10W
R908	1-216-809-11	METAL CHIP 100 5%	1/10W	R978	1-216-817-11	METAL CHIP 470 5%	1/10W
R909	1-216-833-11	METAL CHIP 10K 5%	1/10W	R980	1-216-821-11	METAL CHIP 1K 5%	1/10W
				R981	1-216-819-11	METAL CHIP 680 5%	1/10W
				R982	1-216-819-11	METAL CHIP 680 5%	1/10W
				R983	1-216-819-11	METAL CHIP 680 5%	1/10W
				R984	1-216-819-11	METAL CHIP 680 5%	1/10W
				R985	1-216-819-11	METAL CHIP 680 5%	1/10W
				R986	1-216-819-11	METAL CHIP 680 5%	1/10W

PANEL **PRIMARY** **SENSOR**

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R987	1-216-819-11	METAL CHIP	680 5% 1/10W	S917	1-771-963-11	SWITCH, ROTARY (ALBUM)	
R988	1-216-819-11	METAL CHIP	680 5% 1/10W	S918	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)	
R989	1-216-819-11	METAL CHIP	680 5% 1/10W	S919	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)	
R990	1-216-819-11	METAL CHIP	680 5% 1/10W				
R991	1-216-819-11	METAL CHIP	680 5% 1/10W	S920	1-762-875-21	SWITCH, KEYBOARD (CD)	
R992	1-216-819-11	METAL CHIP	680 5% 1/10W	S925	1-762-875-21	SWITCH, KEYBOARD (I/⏻)	
R993	1-216-819-11	METAL CHIP	680 5% 1/10W	S927	1-762-875-21	SWITCH, KEYBOARD (AMP MENU)	
R994	1-216-819-11	METAL CHIP	680 5% 1/10W	S928	1-762-875-21	SWITCH, KEYBOARD (ILLUMINATION)	
R995	1-216-819-11	METAL CHIP	680 5% 1/10W	S929	1-762-875-21	SWITCH, KEYBOARD (SURR SPEAKER MODE)	
R996	1-216-819-11	METAL CHIP	680 5% 1/10W	S930	1-762-875-21	SWITCH, KEYBOARD (GROOVE)	
R997	1-216-819-11	METAL CHIP	680 5% 1/10W	S931	1-762-875-21	SWITCH, KEYBOARD (SOUND FLASH)	
R999	1-216-864-11	SHORT CHIP	0	S932	1-762-875-21	SWITCH, KEYBOARD (ENTER)	
R1135	1-216-819-11	METAL CHIP	680 5% 1/10W	S970	1-418-725-51	ENCODER, ROTARY (12 TYPE) (VOLUME)	
R1136	1-216-819-11	METAL CHIP	680 5% 1/10W			< VIBRATOR >	
R1137	1-216-819-11	METAL CHIP	680 5% 1/10W	X901	1-781-282-51	VIBRATOR, CERAMIC (4MHz)	
R1141	1-216-821-11	METAL CHIP	1K 5% 1/10W	*****			
R1142	1-216-821-11	METAL CHIP	1K 5% 1/10W		A-1089-525-A	PRIMARY BOARD, COMPLETE	
R1147	1-216-821-11	METAL CHIP	1K 5% 1/10W			*****	
R1148	1-216-821-11	METAL CHIP	1K 5% 1/10W			< CAPACITOR >	
R1160	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	C1201	1-164-156-11	CERAMIC CHIP 0.1uF	25V
R1161	1-216-833-11	METAL CHIP	10K 5% 1/10W	C1202	1-164-156-11	CERAMIC CHIP 0.1uF	25V
R1162	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	C1204	1-164-156-11	CERAMIC CHIP 0.1uF	25V
R1163	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	C1206	1-126-916-11	ELECT 1000uF 20%	6.3V
R1164	1-216-825-11	METAL CHIP	2.2K 5% 1/10W			< CONNECTOR >	
R1165	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	CN1200	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P	
R1166	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	CN1202	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
R1167	1-216-814-11	METAL CHIP	270 5% 1/10W	CN1204	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
R1175	1-216-817-11	METAL CHIP	470 5% 1/10W			< DIODE >	
R1176	1-216-819-11	METAL CHIP	680 5% 1/10W	D1200	6-501-193-01	DIODE 1SS355WTE-17	
R1177	1-216-821-11	METAL CHIP	1K 5% 1/10W			< JUMPER RESISTOR >	
R1178	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	JR1202	1-216-864-11	SHORT CHIP 0	
R1179	1-216-821-11	METAL CHIP	1K 5% 1/10W			< COIL >	
R1180	1-216-814-11	METAL CHIP	270 5% 1/10W	L1201	1-410-666-31	INDUCTOR 18uH	
R1183	1-216-808-11	METAL CHIP	82 5% 1/10W			< TRANSISTOR >	
R1186	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	Q1200	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
R1187	1-216-833-11	METAL CHIP	10K 5% 1/10W			< RESISTOR >	
R1188	1-216-821-11	METAL CHIP	1K 5% 1/10W	R1200	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R1189	1-216-801-11	METAL CHIP	22 5% 1/10W	R1201	1-216-845-11	METAL CHIP 100K 5%	1/10W
R1194	1-216-821-11	METAL CHIP	1K 5% 1/10W			< RELAY >	
R1195	1-216-821-11	METAL CHIP	1K 5% 1/10W	△RY1200	1-755-299-11	RELAY	
R1197	1-216-821-11	METAL CHIP	1K 5% 1/10W	*****			
R1198	1-216-821-11	METAL CHIP	1K 5% 1/10W		1-687-132-12	SENSOR BOARD	
		< SWITCH >				*****	
S900	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)				< CONNECTOR >	
S901	1-762-875-21	SWITCH, KEYBOARD (MP3 BOOSTER)		CN731	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE) 3P	
S902	1-762-875-21	SWITCH, KEYBOARD (EQ BAND)					
S903	1-762-875-21	SWITCH, KEYBOARD (DIRECTION/TUNER MEMORY)					
S904	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)					
S910	1-762-875-21	SWITCH, KEYBOARD (VIDEO/MD)					
S911	1-762-875-21	SWITCH, KEYBOARD (TV)					
S912	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)					
S913	1-762-875-21	SWITCH, KEYBOARD (◀▶)					
S914	1-762-875-21	SWITCH, KEYBOARD (■)					
S915	1-762-875-21	SWITCH, KEYBOARD (■)					
S916	1-479-229-11	ROTARY ENCODER (TUNING)					

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SENSOR **SURROUND** **SW** **TRANS**

Ref. No.	Part No.	Description	Remarks
		< IC >	
IC731	6-600-022-01	IC RPI-576	

	A-1089-321-A	SURROUND BOARD, COMPLETE	

	1-687-669-12	SW BOARD	

		< SWITCH >	
S751	1-786-514-11	SWITCH, LEVER (SLIDE) (OPEN)	

	A-1089-588-A	TRANS BOARD, COMPLETE	

	1-533-217-41	HOLDER, FUSE	
		< CAPACITOR >	
C1262	1-126-964-11	ELECT	10uF 20% 50V
C1263	1-126-968-11	ELECT	100uF 20% 50V
C1292	1-128-576-11	ELECT	100uF 20% 63V
		< CONNECTOR >	
* CN1212	1-564-522-11	PLUG, CONNECTOR 7P	
* CN1213	1-564-521-11	PLUG, CONNECTOR 6P	
		< DIODE >	
D1264	8-719-071-83	DIODE	HZU36BTRF
D1292	6-500-522-21	DIODE	10EDB40-TB3
		< TRANSISTOR >	
Q1264	8-729-024-93	TRANSISTOR	2SB1565E
		< RESISTOR >	
△R1233	1-219-237-11	SOLID	3.3M 20% 1/2W
R1262	1-216-832-11	METAL CHIP	8.2K 5% 1/10W
R1263	1-216-832-11	METAL CHIP	8.2K 5% 1/10W
R1264	1-216-821-11	METAL CHIP	1K 5% 1/10W
△R1292	1-219-124-11	FUSIBLE	0.68 5% 1/4W

		MISCELLANEOUS	

5	1-693-672-11	TUNER (FM/AM) (TM-10U)	
△7	1-468-737-61	POWER SWITCHING	
8	1-824-048-12	WIRE (FLAT TYPE) (27 CORE)	
65	1-828-992-11	WIRE (FLAT TYPE) (17 CORE)	
71	1-797-165-11	DECK, MECHANICAL (CMAT5Z2)	
106	1-828-956-11	WIRE (FLAT TYPE) (9 CORE)	
△107	1-783-820-11	CORD, POWER	
109	1-828-972-11	WIRE (FLAT TYPE) (13 CORE)	
152	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
226	1-832-404-21	CABLE, FLEXIBLE FLAT (16 CORE)	
△229	8-820-244-01	OPTICAL PICK-UP KSM-215DCP/C2NP	

Ref. No.	Part No.	Description	Remarks
△F1241	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (T8AL/125V)	
△F1251	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (T8AL/125V)	
△F1261	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (T8AL/125V)	
△F1271	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (T8AL/125V)	
△F1281	1-533-451-12	FUSE, GLASS TUBE (DIA.5) (T3.15AL/125V)	
FL901	1-519-794-21	VACUUM FLUORESCENT DISPLAYS	
M741	A-4723-963-A	MOTOR ASSY, TABLE	
M751	A-4737-553-A	MOTOR ASSY, LOADING	
M891	1-763-372-11	FAN, DC	
RE701	1-477-680-12	ENCODER, ROTARY	
△T1200	1-443-544-11	POWER TRANSFORMER	

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SONY[®]

US Model

SERVICE MANUAL

Ver. 1.1 2008.01

SUPPLEMENT-1




File this supplement with the service manual.

Subject: Specification change




Specification changes made for serial No. 8891860 and later.
Check the serial No. when servicing and inspecting the set.
This service manual, SUPPLEMENT-1 only contains the change.

For schematic diagrams.

Note:



- All capacitors are in μF unless otherwise noted. (p: pF) 50 V 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.
- % : indicates tolerance.
- Δ : internal component.
-  : nonflammable resistor.
-  : fusible resistor.
-  : panel designation.

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

-  : B+ Line.
-  : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark: TUNER (FM/AM)
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
-  : TUNER (FM/AM)
- < > : Refer to page of service manual.

Note on Printed Wiring Boards:

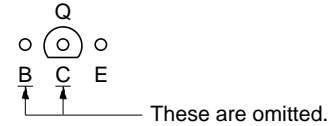
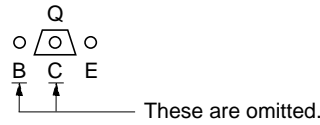
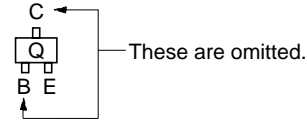
Note:

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

Caution:

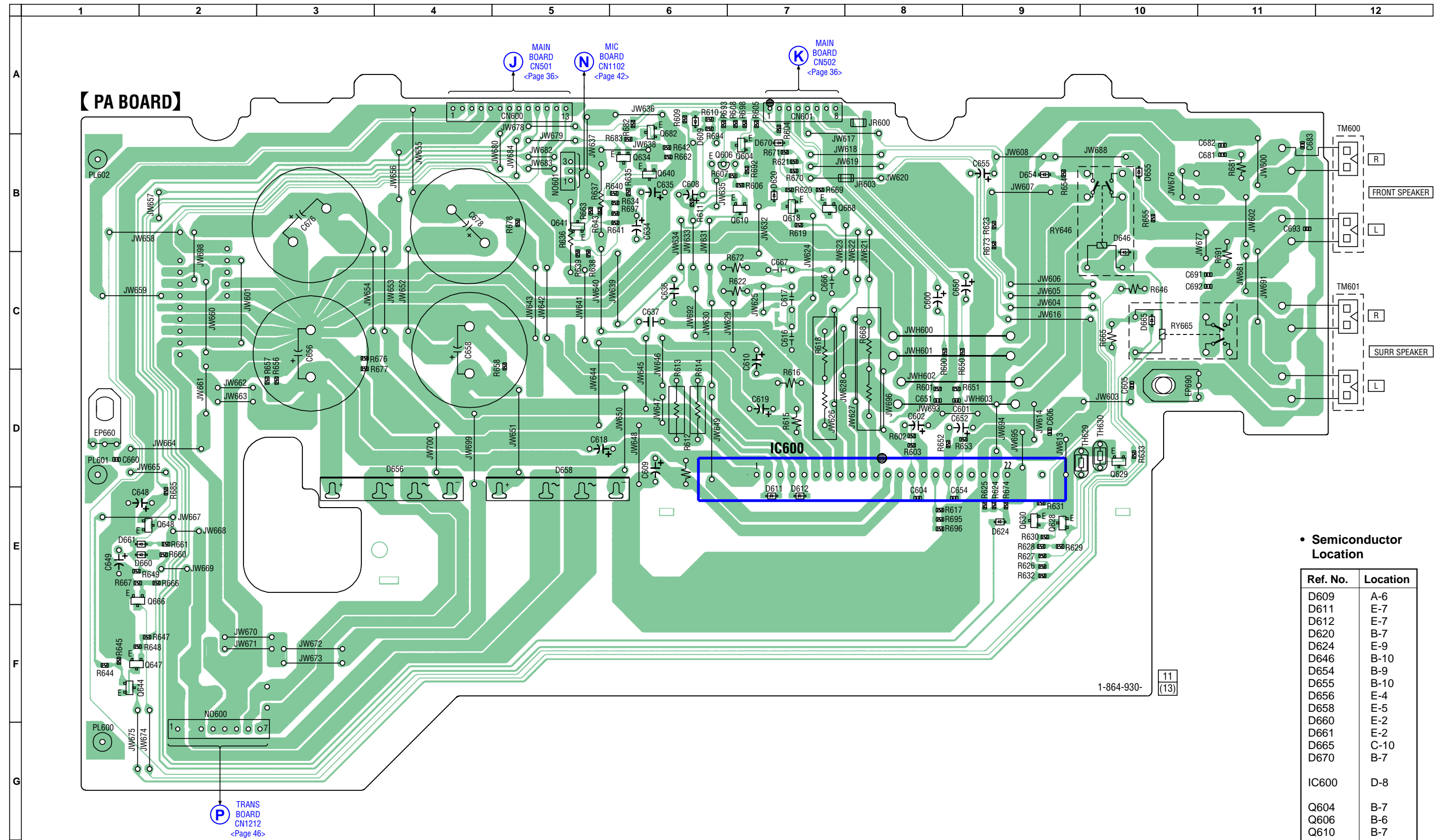
Parts face side: Parts on the parts face side seen from the parts face are indicated. (Side A)
 Pattern face side: Parts on the pattern face side seen from the pattern face are indicated. (Side B)

- Indication of transistor.



- < > : Refer to page of service manual.

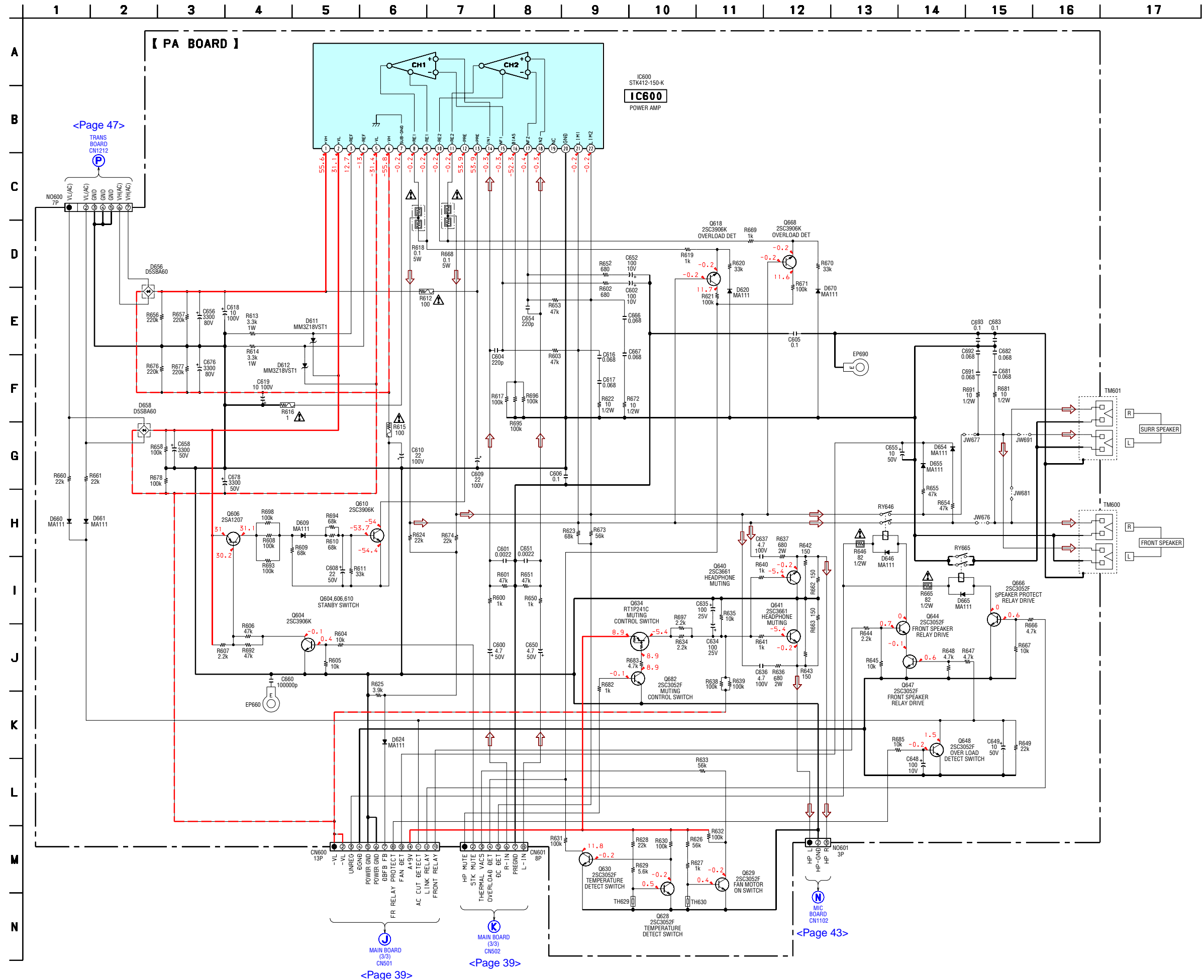
1. PRINTED WIRING BOARD – PA Board –  : Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
D609	A-6
D611	E-7
D612	E-7
D620	B-7
D624	E-9
D646	B-10
D654	B-9
D655	B-10
D656	E-4
D658	E-5
D660	E-2
D661	E-2
D665	C-10
D670	B-7
IC600	D-8
Q604	B-7
Q606	B-6
Q610	B-7
Q618	B-7
Q628	E-9
Q629	D-10
Q630	E-9
Q634	B-6
Q640	B-6
Q641	B-5
Q644	F-1
Q647	F-1
Q648	E-2
Q666	E-1
Q668	B-7
Q682	A-6

2. SCHEMATIC DIAGRAM – PA Board –



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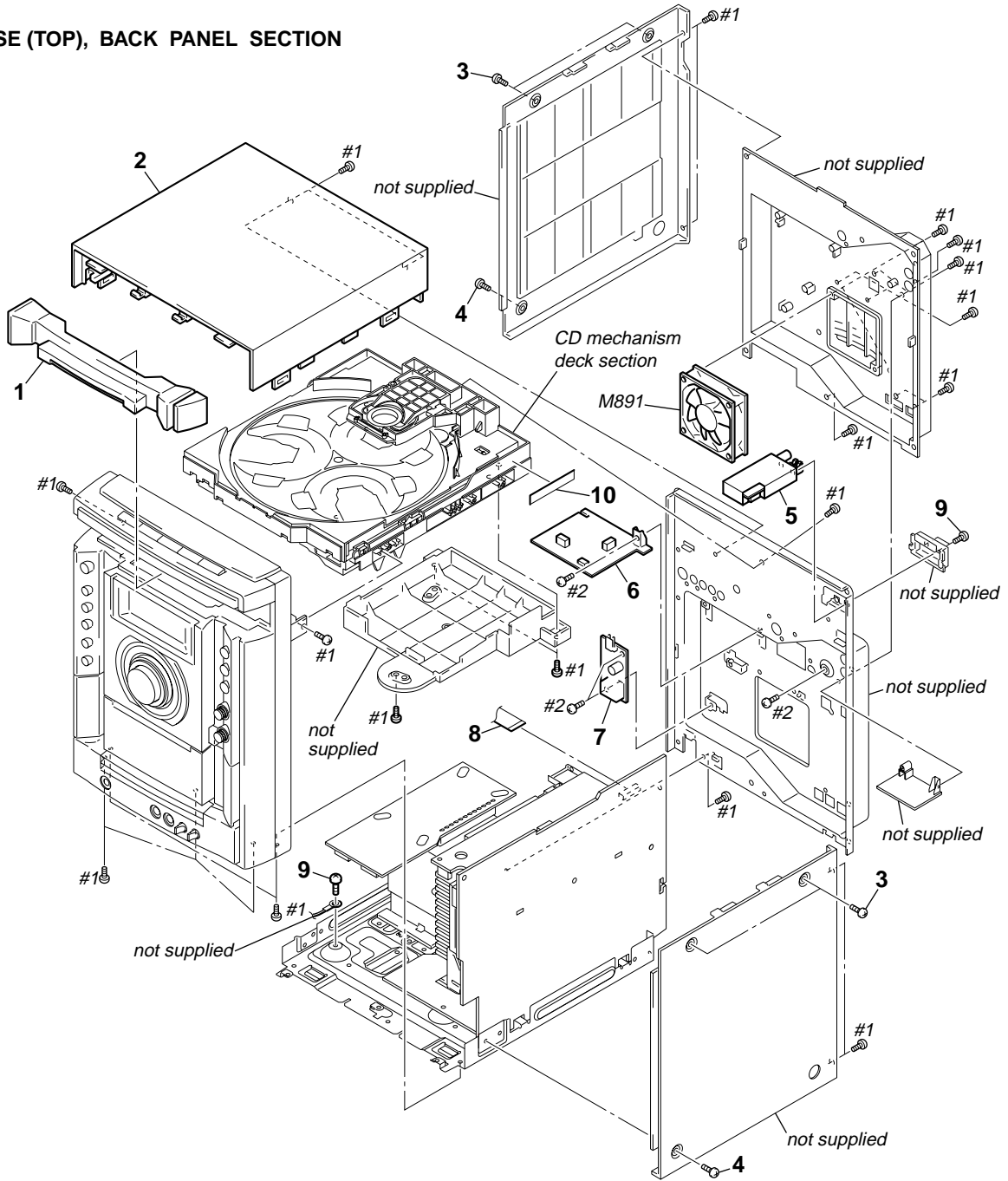
3. EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories are given in the last of this parts list.

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

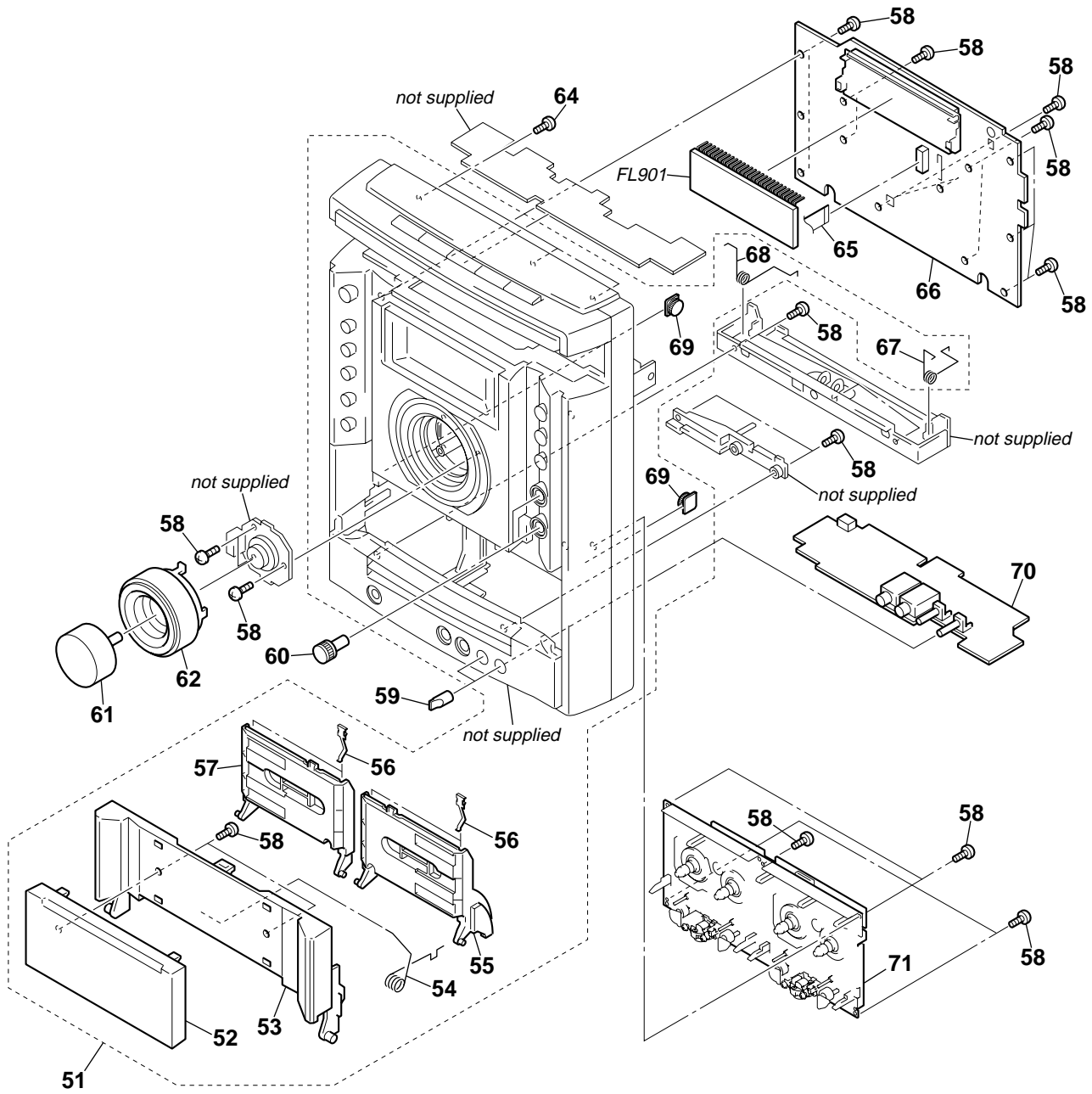
(1) CASE (TOP), BACK PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-2109-678-1	LOADING PANEL ASSY		8	1-824-048-12	WIRE (FLAT TYPE) (27 CORE)	
2	2-342-117-21	CASE (TOP)		9	3-077-331-21	+BV3 (3-CR)	
3	3-363-099-32	SCREW (CASE 3 TP2)		10	3-378-109-12	CUSHION, SARANET	
4	3-363-099-02	SCREW (CASE 3 TP2)		M891	1-763-372-11	FAN, DC	
5	1-693-672-11	TUNER (FM/AM) (TM-10U)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
6	A-1089-525-A	PRIMARY BOARD, COMPLETE		#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
Δ 7	1-468-737-71	POWER SWITCHING					

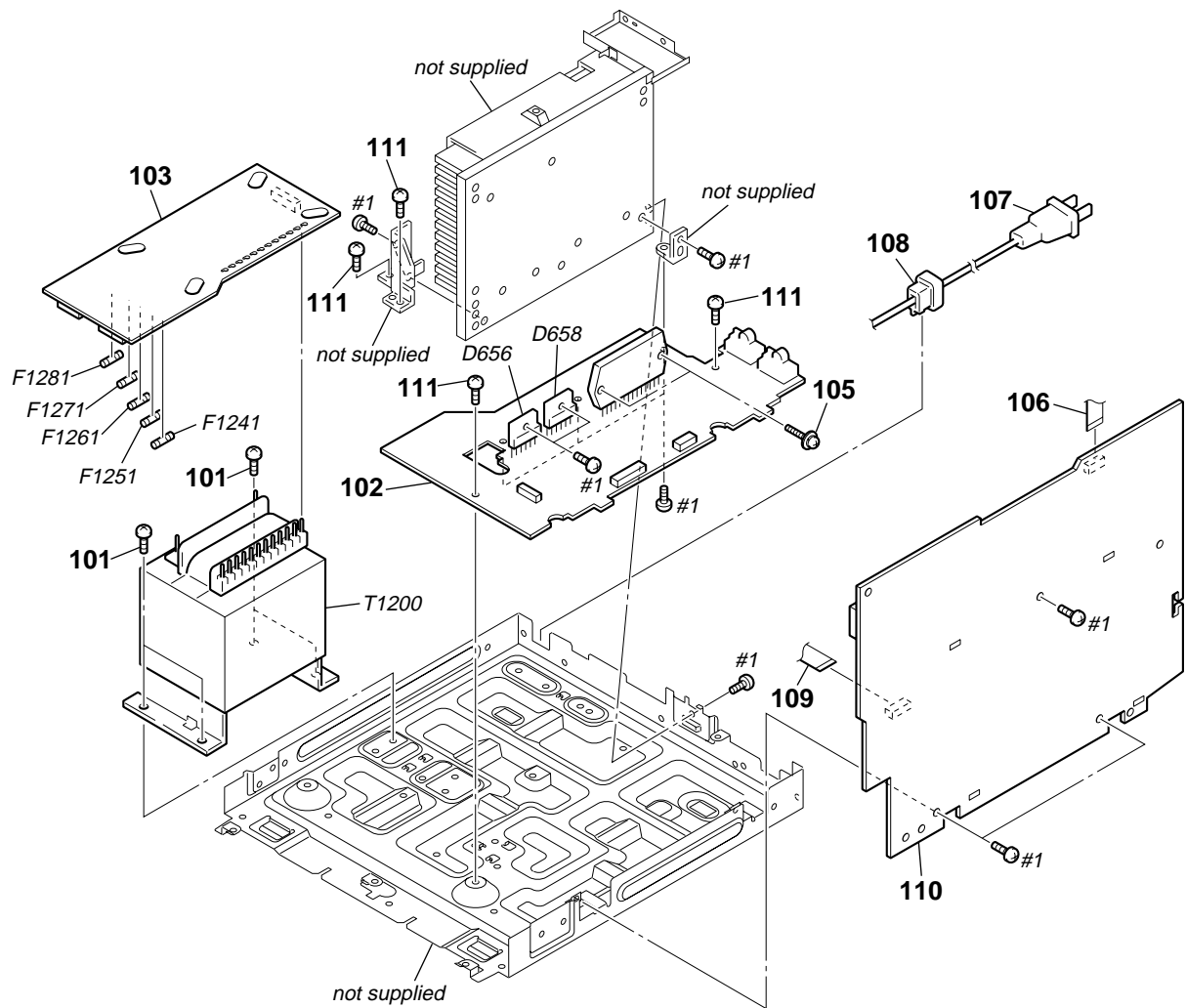
HCD-LX10000

(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-2025-429-1	FRONT PANEL ASSY		62	X-2025-430-1	KNOB JOG ASSY	
52	2-342-128-01	ESCUTHEON (LID)		64	3-077-331-21	+BV3 (3-CR)	
53	2-342-108-01	LID (TC)		65	1-828-992-11	WIRE (FLAT TYPE) (17 CORE)	
54	2-342-134-01	SPRING (LID)		66	A-1089-463-A	PANEL BOARD, COMPLETE	
55	2-342-111-01	HOLDER (TC-R)		67	2-342-136-01	SPRING (R)	
56	4-959-229-11	DETENT, CASSETTE		68	2-342-135-01	SPRING (L)	
57	2-342-110-01	HOLDER (TC-L)		69	4-224-104-11	DAMPER	
58	3-087-053-01	+BVTP2.6 (3CR)		70	A-1089-466-A	MIC BOARD, COMPLETE	
59	4-224-578-21	KNOB (MIC)		71	1-797-165-11	DECK, MECHANICAL (CMAT5Z2)	
60	2-342-104-01	KNOB (AMS)		FL901	1-519-794-21	VACUUM FLUORESCENT DISPLAYS	
61	4-252-575-01	KNOB VOL					

(3) CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	4-900-386-01	SCREW		△F1241	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (T8AL/125V)	
102	A-1089-586-A	PA BOARD, COMPLETE		△F1251	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (T8AL/125V)	
103	A-1089-588-A	TRANS BOARD, COMPLETE		△F1261	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (T8AL/125V)	
105	3-905-609-31	SCREW (TRANSISTOR)		△F1271	1-576-537-12	FUSE, GLASS TUBE (DIA.5) (T8AL/125V)	
106	1-828-956-11	WIRE (FLAT TYPE) (9 CORE)		△F1281	1-533-451-12	FUSE, GLASS TUBE (DIA.5) (T3.15AL/125V)	
△107	1-783-820-11	CORD, POWER		*	D656	8-719-500-62	DIODE D5SBA60
* 108	3-703-244-00	BUSHING (2104), CORD		*	D658	8-719-500-62	DIODE D5SBA60
109	1-828-972-11	WIRE (FLAT TYPE) (13 CORE)		△T1200	1-445-342-11	POWER TRANSFORMER	
110	A-1189-961-A	MAIN BOARD, COMPLETE		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
111	3-077-331-21	+BV3 (3-CR)					

4. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u : μ , for example:
uA.. : μ A.. uPA.. : μ PA..
uPB.. : μ PB.. uPC.. : μ PC.. uPD.. : μ PD..
- CAPACITORS
uF : μ F
- COILS
uH : μ H

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-1089-586-A	PA BOARD, COMPLETE *****		CN601	1-784-031-41	CONNECTOR, BOARD TO BOARD 8P	
		< CAPACITOR >				< DIODE >	
C600	1-126-963-11	ELECT	4.7uF 20% 50V	D609	8-719-404-50	DIODE MA111-TX	
C601	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	D611	8-719-056-93	DIODE UDZ-TE-17-18B	
C602	1-104-658-11	ELECT	100uF 20% 10V	D612	8-719-056-93	DIODE UDZ-TE-17-18B	
C604	1-162-960-11	CERAMIC CHIP	220PF 10% 50V	D620	8-719-404-50	DIODE MA111-TX	
C605	1-131-992-11	CERAMIC CHIP	0.1uF 35V	D624	8-719-404-50	DIODE MA111-TX	
C606	1-131-992-11	CERAMIC CHIP	0.1uF 35V	D646	8-719-404-50	DIODE MA111-TX	
C608	1-126-965-11	ELECT	22uF 20% 50V	D654	8-719-404-50	DIODE MA111-TX	
C609	1-128-560-11	ELECT	22uF 20% 100V	D655	8-719-404-50	DIODE MA111-TX	
C610	1-128-560-11	ELECT	22uF 20% 100V	D660	8-719-404-50	DIODE MA111-TX	
C616	1-136-495-11	FILM	0.068uF 5% 50V	D661	8-719-404-50	DIODE MA111-TX	
C617	1-136-495-11	FILM	0.068uF 5% 50V	D665	8-719-404-50	DIODE MA111-TX	
C618	1-128-582-11	ELECT	10uF 20% 100V	D670	8-719-404-50	DIODE MA111-TX	
C619	1-128-582-11	ELECT	10uF 20% 100V			< IC >	
C634	1-104-665-11	ELECT	100uF 20% 25V	IC600	6-712-133-01	IC STK412-150-K	
C635	1-104-665-11	ELECT	100uF 20% 25V			< JUMPER RESISTOR >	
C636	1-107-721-11	ELECT	4.7uF 20% 100V	JR600	1-216-296-11	SHORT CHIP 0	
C637	1-107-721-11	ELECT	4.7uF 20% 100V	JR603	1-216-296-11	SHORT CHIP 0	
C648	1-104-658-11	ELECT	100uF 20% 10V			< TRANSISTOR >	
C649	1-126-964-11	ELECT	10uF 20% 50V	Q604	8-729-924-99	TRANSISTOR 2SC3722K-E	
C650	1-126-963-11	ELECT	4.7uF 20% 50V	Q606	8-729-821-00	TRANSISTOR 2SA1207	
C651	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	Q610	8-729-924-99	TRANSISTOR 2SC3722K-E	
C652	1-104-658-11	ELECT	100uF 20% 10V	Q618	8-729-924-99	TRANSISTOR 2SC3722K-E	
C654	1-162-960-11	CERAMIC CHIP	220PF 10% 50V	Q628	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C655	1-126-964-11	ELECT	10uF 20% 50V	Q629	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C656	1-127-814-11	ELECT(BLOCK)	3300uF 20% 80V	Q630	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C658	1-126-974-11	ELECT	3300uF 20% 50V	Q634	8-729-027-31	TRANSISTOR DTA124EKA-T146	
C660	1-131-992-11	CERAMIC CHIP	0.1uF 35V	Q640	8-729-802-80	TRANSISTOR 2SC3661	
C666	1-136-495-11	FILM	0.068uF 5% 50V	Q641	8-729-802-80	TRANSISTOR 2SC3661	
C667	1-136-495-11	FILM	0.068uF 5% 50V	Q644	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C676	1-127-814-11	ELECT(BLOCK)	3300uF 20% 80V	Q647	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C678	1-126-974-11	ELECT	3300uF 20% 50V	Q648	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C681	1-110-563-11	CERAMIC CHIP	0.068uF 10% 16V	Q666	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C682	1-110-563-11	CERAMIC CHIP	0.068uF 10% 16V	Q668	8-729-924-99	TRANSISTOR 2SC3722K-E	
C683	1-131-992-11	CERAMIC CHIP	0.1uF 35V	Q682	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C691	1-110-563-11	CERAMIC CHIP	0.068uF 10% 16V			< RESISTOR >	
C692	1-110-563-11	CERAMIC CHIP	0.068uF 10% 16V	R600	1-216-821-11	METAL CHIP 1K 5% 1/10W	
C693	1-131-992-11	CERAMIC CHIP	0.1uF 35V				
		< CONNECTOR >					
CN600	1-764-865-41	CONNECTOR, BOARD TO BOARD 13P					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R601	1-216-841-11	METAL CHIP	47K 5% 1/10W	R660	1-216-837-11	METAL CHIP	22K 5% 1/10W
R602	1-216-819-11	METAL CHIP	680 5% 1/10W	R661	1-216-837-11	METAL CHIP	22K 5% 1/10W
R603	1-216-841-11	METAL CHIP	47K 5% 1/10W	R662	1-216-811-11	METAL CHIP	150 5% 1/10W
R604	1-216-833-11	METAL CHIP	10K 5% 1/10W	R663	1-216-811-11	METAL CHIP	150 5% 1/10W
R605	1-216-833-11	METAL CHIP	10K 5% 1/10W	△R665	1-260-086-31	CARBON	82 5% 1/2W F
R606	1-216-841-11	METAL CHIP	47K 5% 1/10W	R666	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R607	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R667	1-216-833-11	METAL CHIP	10K 5% 1/10W
R608	1-216-845-11	METAL CHIP	100K 5% 1/10W	△R668	1-234-798-11	ENCAPSULATED COMPONENT 0.1X2 5W	
R609	1-216-843-11	METAL CHIP	68K 5% 1/10W	R669	1-216-821-11	METAL CHIP	1K 5% 1/10W
R610	1-216-843-11	METAL CHIP	68K 5% 1/10W	R670	1-216-839-11	METAL CHIP	33K 5% 1/10W
R611	1-216-839-11	METAL CHIP	33K 5% 1/10W	R671	1-216-845-11	METAL CHIP	100K 5% 1/10W
△R612	1-245-605-51	FUSIBLE	100 5% 1/4W F	R672	1-245-711-31	CARBON	10 5% 1/2W F
△R613	1-215-872-11	METAL OXIDE	3.3K 5% 1W F	R673	1-216-842-11	METAL CHIP	56K 5% 1/10W
△R614	1-215-872-11	METAL OXIDE	3.3K 5% 1W F	R674	1-216-837-11	METAL CHIP	22K 5% 1/10W
△R615	1-245-605-51	FUSIBLE	100 5% 1/4W F	R676	1-216-849-11	METAL CHIP	220K 5% 1/10W
△R616	1-217-637-00	FUSIBLE	1 5% 1/4W F	R677	1-216-849-11	METAL CHIP	220K 5% 1/10W
R617	1-216-845-11	METAL CHIP	100K 5% 1/10W	R678	1-216-845-11	METAL CHIP	100K 5% 1/10W
△R618	1-234-798-11	ENCAPSULATED COMPONENT 0.1X2 5W		R681	1-245-711-31	CARBON	10 5% 1/2W F
R619	1-216-821-11	METAL CHIP	1K 5% 1/10W	R682	1-216-821-11	METAL CHIP	1K 5% 1/10W
R620	1-216-839-11	METAL CHIP	33K 5% 1/10W	R683	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R621	1-216-845-11	METAL CHIP	100K 5% 1/10W	R685	1-216-833-11	METAL CHIP	10K 5% 1/10W
R622	1-245-711-31	CARBON	10 5% 1/2W F	R691	1-245-711-31	CARBON	10 5% 1/2W F
R623	1-216-843-11	METAL CHIP	68K 5% 1/10W	R692	1-216-841-11	METAL CHIP	47K 5% 1/10W
R624	1-216-837-11	METAL CHIP	22K 5% 1/10W	R693	1-216-845-11	METAL CHIP	100K 5% 1/10W
R625	1-216-828-11	METAL CHIP	3.9K 5% 1/10W	R694	1-216-843-11	METAL CHIP	68K 5% 1/10W
R626	1-216-842-11	METAL CHIP	56K 5% 1/10W	R695	1-216-845-11	METAL CHIP	100K 5% 1/10W
R627	1-216-821-11	METAL CHIP	1K 5% 1/10W	R696	1-216-845-11	METAL CHIP	100K 5% 1/10W
R628	1-216-837-11	METAL CHIP	22K 5% 1/10W	R697	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R629	1-216-830-11	METAL CHIP	5.6K 5% 1/10W	R698	1-216-845-11	METAL CHIP	100K 5% 1/10W
R630	1-216-845-11	METAL CHIP	100K 5% 1/10W			< RELAY >	
R631	1-216-845-11	METAL CHIP	100K 5% 1/10W	RY646	1-755-500-11	RELAY	
R632	1-216-845-11	METAL CHIP	100K 5% 1/10W	RY665	1-755-500-11	RELAY	
R633	1-216-842-11	METAL CHIP	56K 5% 1/10W			< THERMISTOR >	
R634	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	TH629	1-807-796-11	THERMISTOR	
R635	1-216-833-11	METAL CHIP	10K 5% 1/10W	TH630	1-807-796-11	THERMISTOR	
△R636	1-215-891-11	METAL OXIDE	680 5% 2W F			< TERMINAL BOARD >	
△R637	1-215-891-11	METAL OXIDE	680 5% 2W F	TM600	1-820-067-11	TERMINAL BOARD (FRONT SPEAKER)	
R638	1-216-845-11	METAL CHIP	100K 5% 1/10W	TM601	1-820-067-11	TERMINAL BOARD (SURR SPEAKER)	
R639	1-216-845-11	METAL CHIP	100K 5% 1/10W	*****			
R640	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R641	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R642	1-216-811-11	METAL CHIP	150 5% 1/10W				
R643	1-216-811-11	METAL CHIP	150 5% 1/10W				
R644	1-216-825-11	METAL CHIP	2.2K 5% 1/10W				
R645	1-216-833-11	METAL CHIP	10K 5% 1/10W				
△R646	1-260-086-31	CARBON	82 5% 1/2W F				
R647	1-216-829-11	METAL CHIP	4.7K 5% 1/10W				
R648	1-216-829-11	METAL CHIP	4.7K 5% 1/10W				
R649	1-216-837-11	METAL CHIP	22K 5% 1/10W				
R650	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R651	1-216-841-11	METAL CHIP	47K 5% 1/10W				
R652	1-216-819-11	METAL CHIP	680 5% 1/10W				
R653	1-216-841-11	METAL CHIP	47K 5% 1/10W				
R654	1-216-841-11	METAL CHIP	47K 5% 1/10W				
R655	1-216-841-11	METAL CHIP	47K 5% 1/10W				
R656	1-216-849-11	METAL CHIP	220K 5% 1/10W				
R657	1-216-849-11	METAL CHIP	220K 5% 1/10W				
R658	1-216-845-11	METAL CHIP	100K 5% 1/10W				

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<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
		MISCELLANEOUS *****	
5	1-693-672-11	TUNER (FM/AM) (TM-10U)	
△7	1-468-737-71	SWITCHING, POWER	
8	1-824-048-12	WIRE (FLAT TYPE) (27 CORE)	
65	1-828-992-11	WIRE (FLAT TYPE) (17 CORE)	
71	1-797-165-11	DECK, MECHANICAL (CMAT5Z2)	
106	1-828-956-11	WIRE (FLAT TYPE) (9 CORE)	
△107	1-783-820-11	CORD, POWER	
109	1-828-972-11	WIRE (FLAT TYPE) (13 CORE)	
* D656	8-719-500-62	DIODE D5SBA60	
* D658	8-719-500-62	DIODE D5SBA60	
△F1241	1-576-537-12	FUSE, GLASS TUBE (DIA. 5) (T8AL/125V)	
△F1251	1-576-537-12	FUSE, GLASS TUBE (DIA. 5) (T8AL/125V)	
△F1261	1-576-537-12	FUSE, GLASS TUBE (DIA. 5) (T8AL/125V)	
△F1271	1-576-537-12	FUSE, GLASS TUBE (DIA. 5) (T8AL/125V)	
△F1281	1-533-451-12	FUSE, GLASS TUBE (DIA. 5) (T3.15AL/125V)	
M891	1-763-372-11	FAN, DC	
△T1200	1-445-342-11	TRANSFORMER, POWER	

MEMO

