

CX-JN66

SERVICE MANUAL

Ver 1.0 2004.03

*E Model
Australian Model*



CX-JN66 is the amplifier, CD player, tape deck and tuner section in JAX-N66/PK66.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM74-F1BD81
	Base Unit Name	BU-F1BD81A
	Optical Pick-up Name	KSM-215DCP
Tape deck Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	CWM43FR34

SPECIFICATIONS

Amplifier section

The following measured at AC 120, 127, 220, 240 V
50/60 Hz

DIN power output (rated): 96 + 96 watts (6 ohms at
1 kHz, DIN)

Continuous RMS power output (reference):
120 + 120 watts (6 ohms at
1 kHz, 10% THD)

Inputs

VIDEO/MD IN (phono jacks):

voltage 450/250 mV,
impedance 47 kilohms

Outputs

PHONES (stereo mini jack):

accepts headphones of
8 ohms or more

SPEAKER:

accepts impedance of 6 to
16 ohms

CD player section

System Compact disc and digital
audio system

Laser Semiconductor laser
($\lambda=780$ nm)

Emission duration:
continuous

Frequency response 2 Hz – 20 kHz (± 0.5 dB)

Wavelength 770 – 810 nm

Signal-to-noise ratio More than 90 dB

Dynamic range More than 90 dB

Tape deck section

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

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range 87.5 – 108.0 MHz
(50-kHz step)

Antenna FM lead antenna

Antenna terminals 75 ohms unbalanced

Intermediate frequency 10.7 MHz

AM tuner section

Tuning range 530 – 1,710 kHz
(with the tuning interval
set at 10 kHz)
2 Band type: 531 – 1,602 kHz
(with the tuning interval
set at 9 kHz)

3 Band type:

Middle Eastern models:

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

SW: 5.95 – 17.90 MHz
(with the tuning interval
set at 5 kHz)

Other models:

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

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

SW: 5.95 – 17.90 MHz
(with the tuning interval
set at 5 kHz)

Antenna AM loop antenna
Antenna terminals External antenna terminal
Intermediate frequency 450 kHz

– Continued on next page –

COMPACT DISC DECK RECEIVER

9-877-597-01

2004C05-1

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Sony Corporation

Home Audio Company

Published by Sony Engineering Corporation



General

Power requirements

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

Mexican models: 127 V AC, 60 Hz

Other models: 120 V, 220 V or

230 – 240 V AC, 50/60 Hz

Adjustable with voltage selector

Power consumption 180 watts

Dimensions (w/h/d) incl. projecting parts and controls

Amplifier/Tuner/Tape/CD section:

Approx. 280 × 325 ×

425 mm

Mass Approx. 9.9 kg

Design and specifications are subject to change without notice.

Notes on chip component replacement

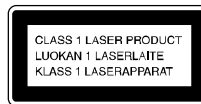
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

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

CAUTION

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



This appliance is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

DANGER

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

DANGER

RADIATION DE LESER INVISIBLE LORS D'OUVERTURE, AVEC L'ENCLenchement DE SECURITE ANNULE. EVITER L'EXPOSITION DIRECTE AU RAYON.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

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

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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

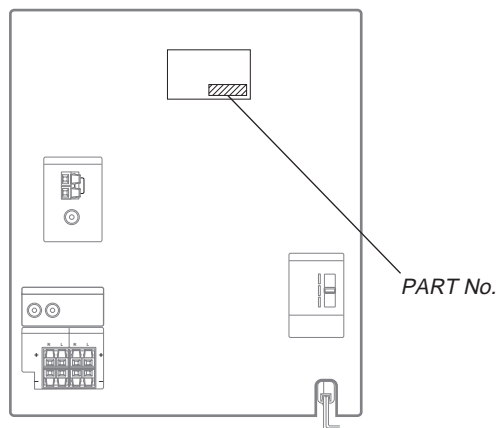
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

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

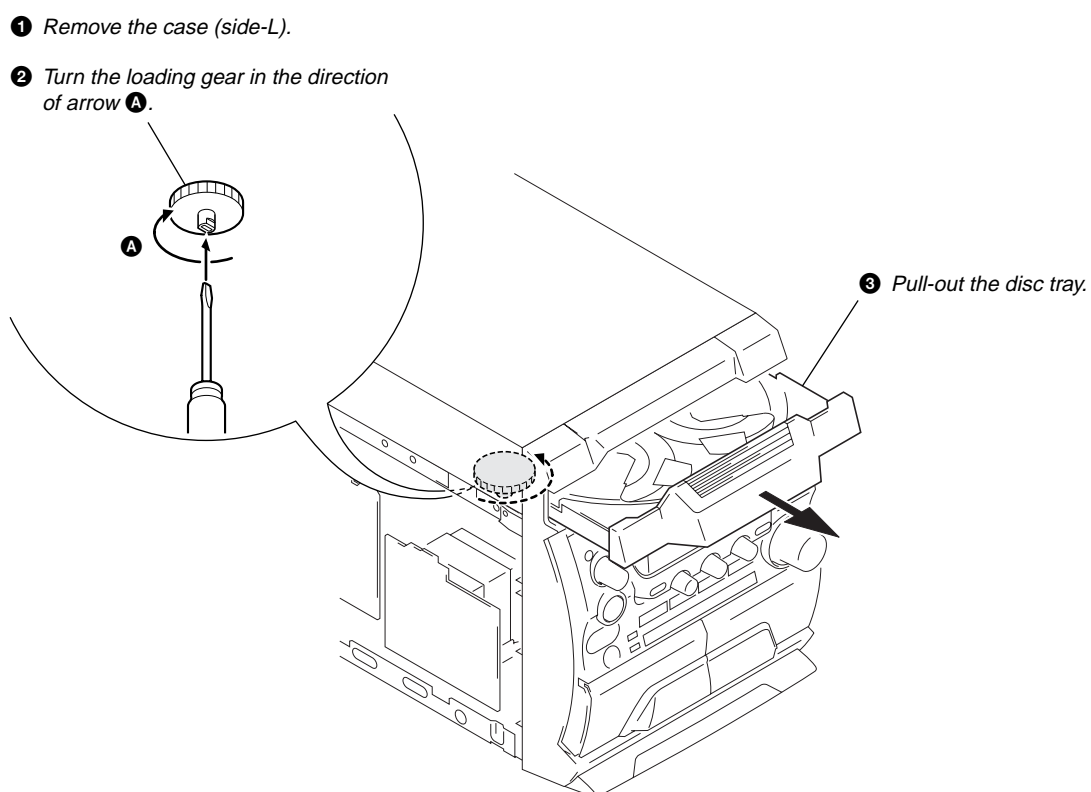
• MODEL IDENTIFICATION

– Rear View –

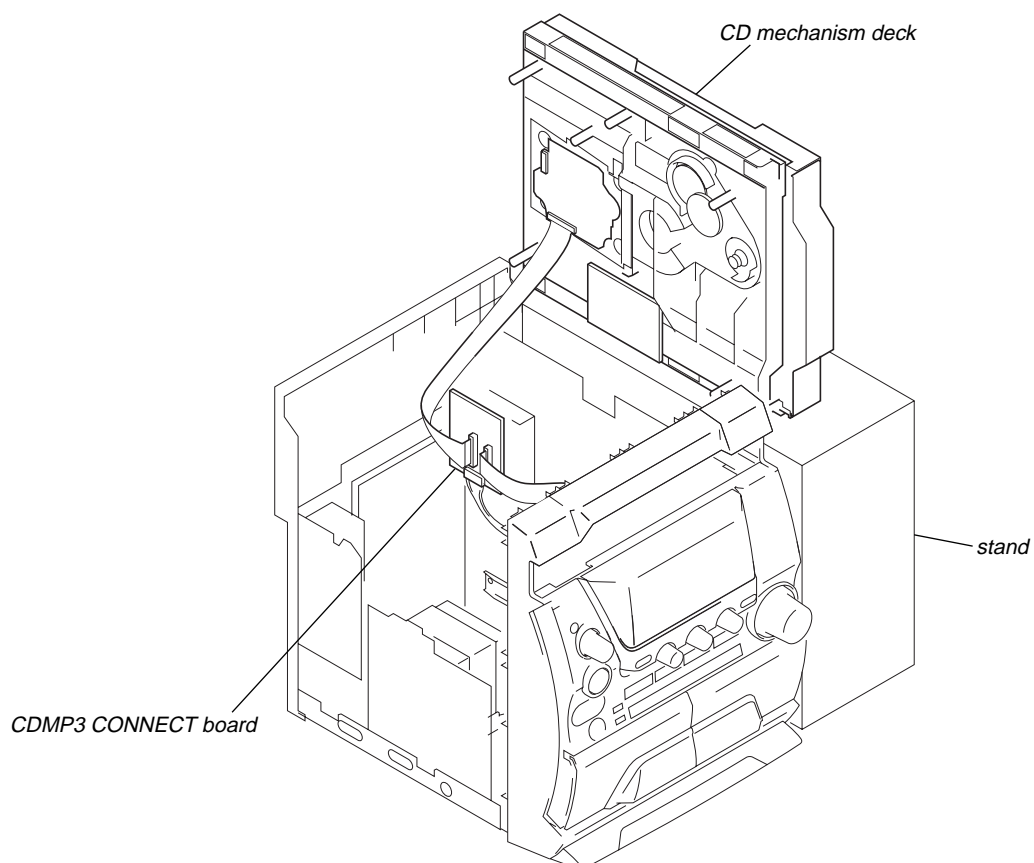


MODEL	PART No.
Chilean and Peruvian models	4-252-997-0□
Middle and Near East models	4-253-000-0□
Mexican model	4-255-501-0□
Australian model	4-255-526-0□
Singapore model	4-255-527-0□
Taiwan model	4-255-529-0□

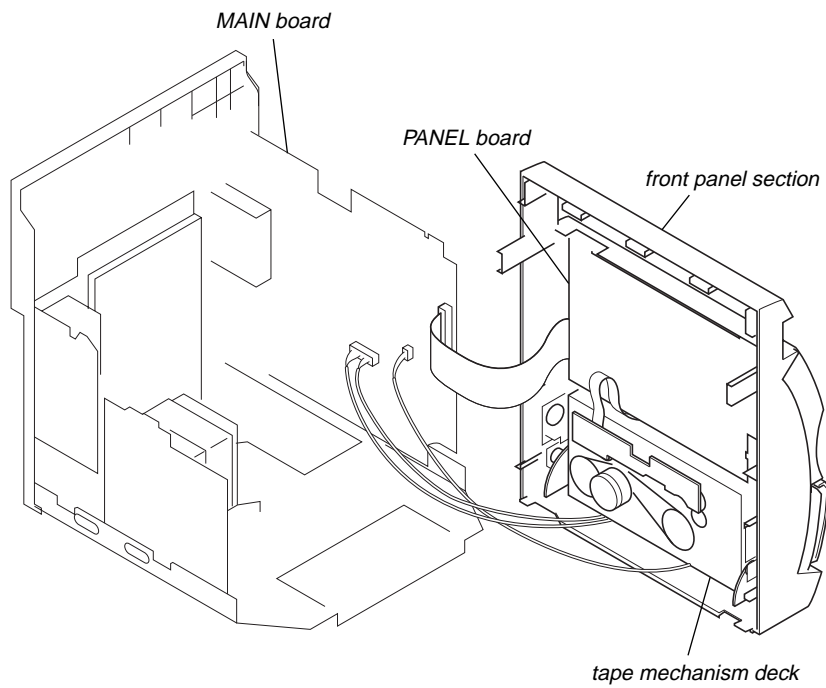
HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS OFF.



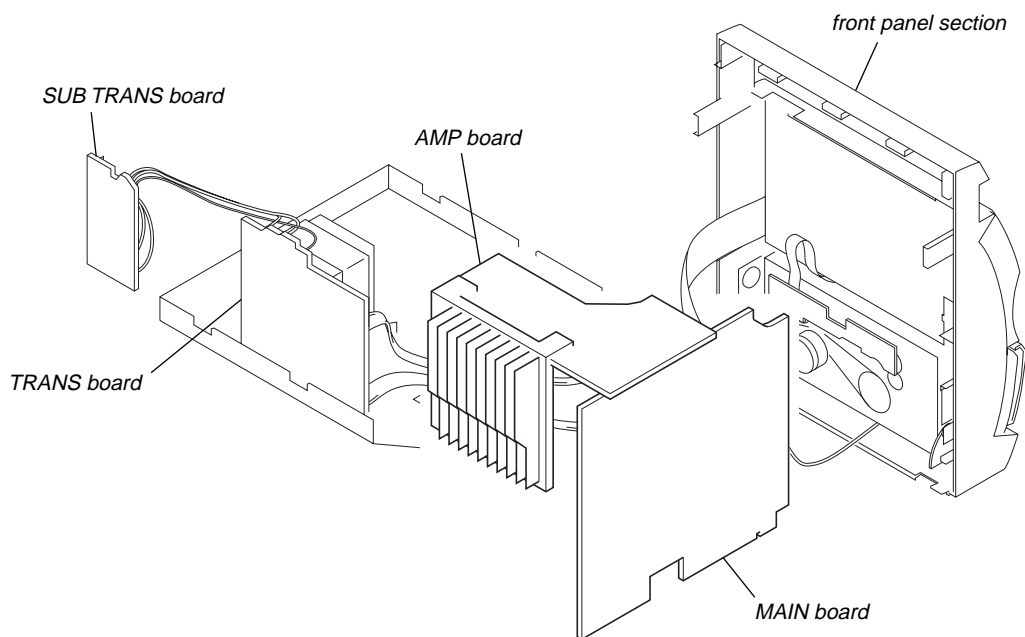
**SERVICE POSITION
– CD MECHANISM DECK –**



– FRONT PANEL SECTION –



– AMP BOARD –



SECTION 2 GENERAL

This section is extracted from instruction manual.

• LOCATION OF CONTROLS

Main unit

ALPHABETICAL ORDER

A - N

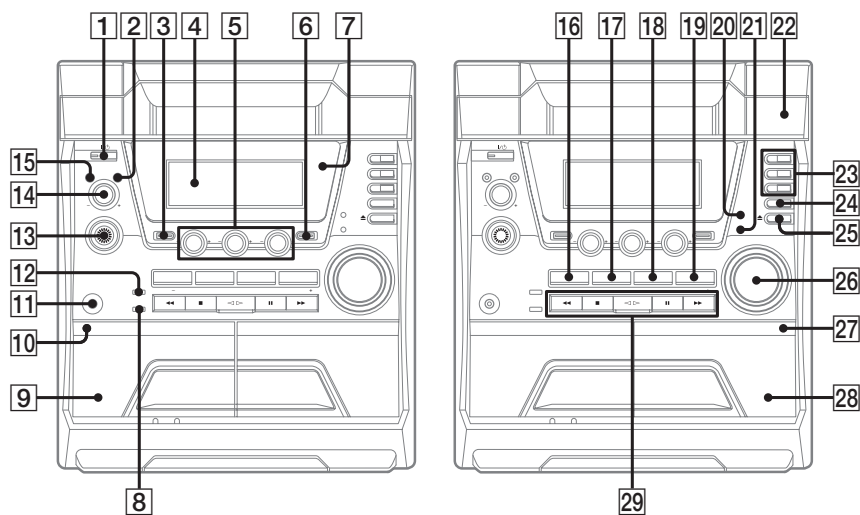
- ALBUM + 29
- ALBUM - 29
- BASS control 5
- CD 16
- CD SYNC 12
- Deck A 9
- Deck B 28
- DISC 1 - 3 23
- DISC SKIP/EX-CHANGE 24
- Disc tray 22
- DISPLAY 15
- Display window 4
- ENTER 2
- i-Bass 13
- MIDDLE control 5

O - Z

- Operation Dial (AMS/TUNING) 14
- P FILE 6
- PHONES jack 11
- PLAY MODE 20
- PRESET EQ 3
- REC PAUSE/START 8
- Remote sensor 7
- SURROUND 21
- TAPE A/B 18
- TREBLE control 5
- TUNER/BAND 17
- TUNING MODE 20
- VIDEO/MD 19
- VOLUME control 26

BUTTON DESCRIPTIONS

- I/⏻ (power) 1
- ▲ PUSH (deck A) (eject) 10
- ▲ (eject) 25
- PUSH ▲ (deck B) (eject) 27
- ◀◀ (rewind) 29
- (stop) 29
- ▶▶ (play) 29
- || (pause) 29
- ▶▶ (fast forward) 29



Remote control

ALPHABETICAL ORDER

A - E

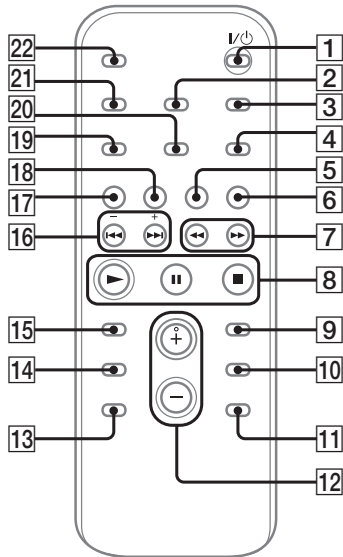
- ALBUM + [11]
- ALBUM - [13]
- CD [18]
- CLEAR [15]
- CLOCK/TIMER SELECT [2]
- CLOCK/TIMER SET [3]
- DISC SKIP [10]
- DISPLAY [21]
- ENTER [9]
- EQ [14]

F - Z

- FM MODE [4]
- FUNCTION [6]
- PLAY MODE [20]
- REPEAT [4]
- SLEEP [22]
- TAPE [17]
- TUNER BAND [5]
- TUNER MEMORY [19]
- TUNING MODE [20]
- VOLUME +/- [12]

BUTTON DESCRIPTIONS

- I/⏻ (power) [1]
- ⏮/⏭ (rewind/fast forward) [7]
- ▶ (play) [8]
- ⏸ (pause) [8]
- (stop) [8]
- /+ (tuning) [16]
- ⏪/⏩ (go back/go forward) [16]



Setting the clock

Use buttons on the remote for the operation.

- 1 Press I/⏻ to turn on the system.
- 2 Press CLOCK/TIMER SET.
- 3 Press ⏪ or ⏩ repeatedly to set the hour.
- 4 Press ENTER.
- 5 Press ⏪ or ⏩ repeatedly to set the minute.
- 6 Press ENTER.
The clock starts working.

To adjust the clock

- 1 Press CLOCK/TIMER SET.
- 2 Press ⏪ or ⏩ repeatedly to select "CLOCK SET", then press ENTER.
- 3 Do the same procedures as step 3 to 6 above.

Notes

- The clock settings are canceled when you disconnect the power cord or if a power failure occurs.
- You cannot set the clock in Power Saving Mode.

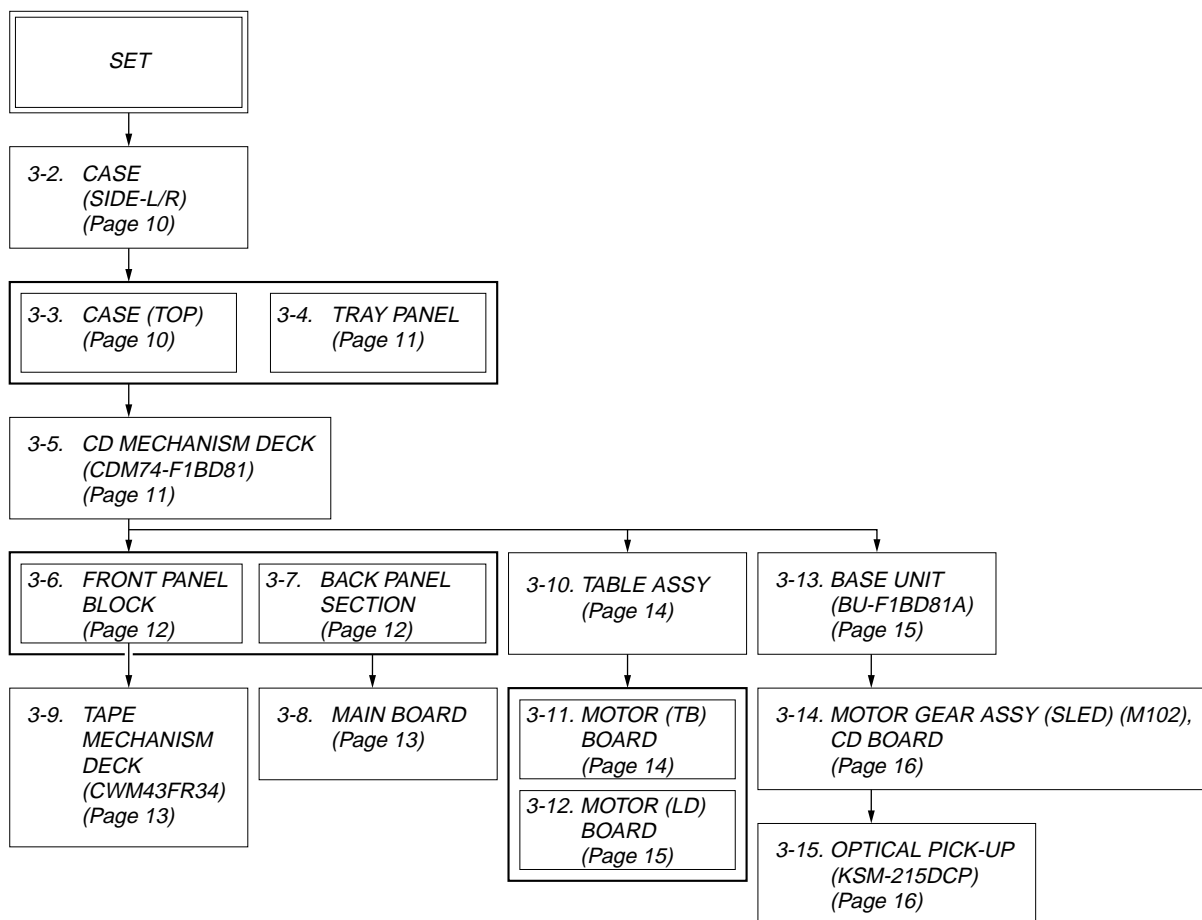
SECTION 3 DISASSEMBLY

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

3-1. DISASSEMBLY FLOW

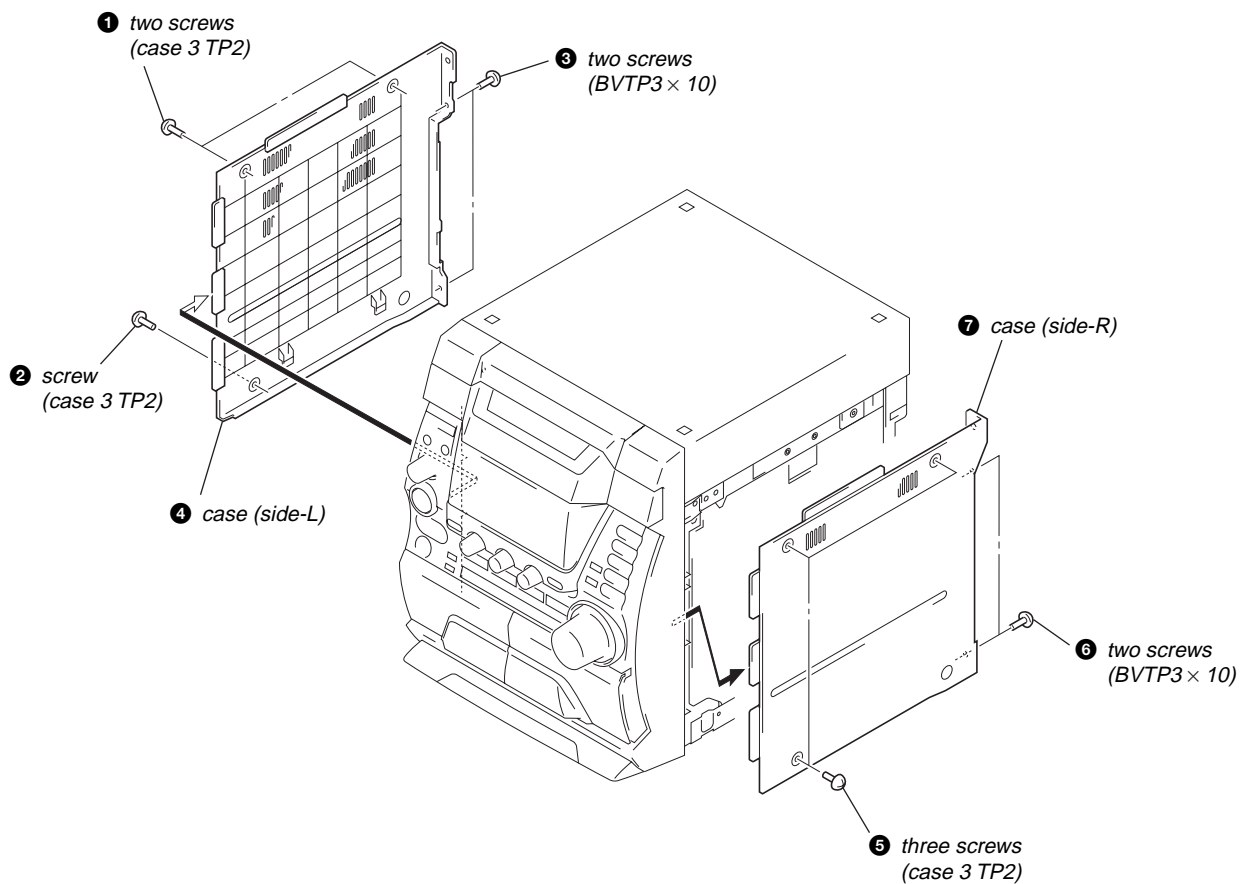
Note 1: The process described in  can be performed in any order.

Note 2: Without completing the process described in , the next process can not be performed.

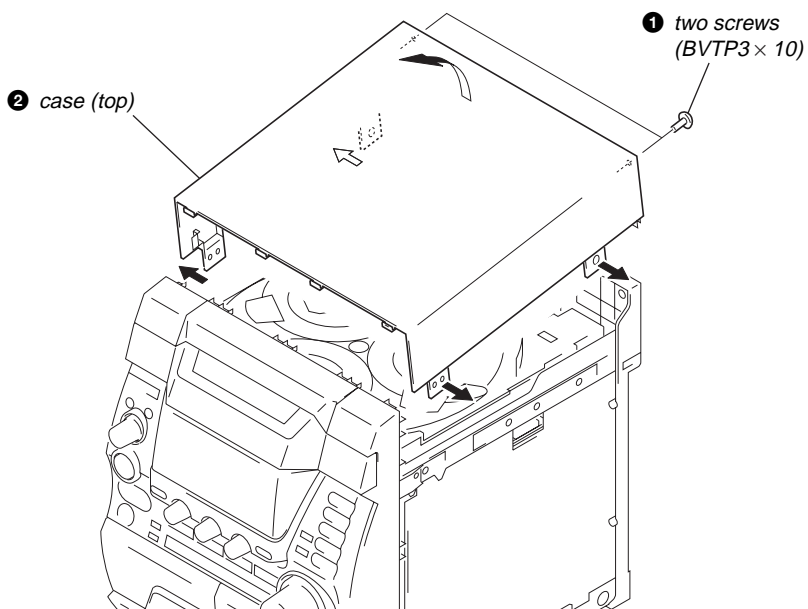


Note: Follow the disassembly procedure in the numerical order given.

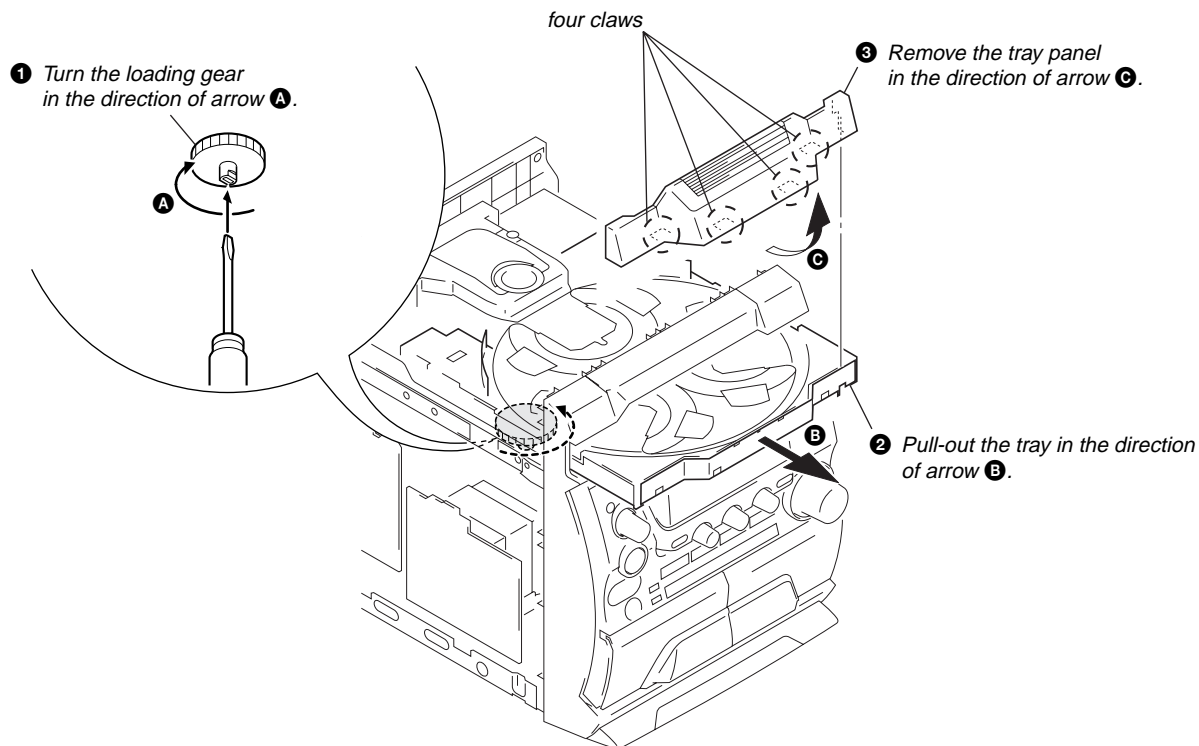
3-2. CASE (SIDE-L/R)



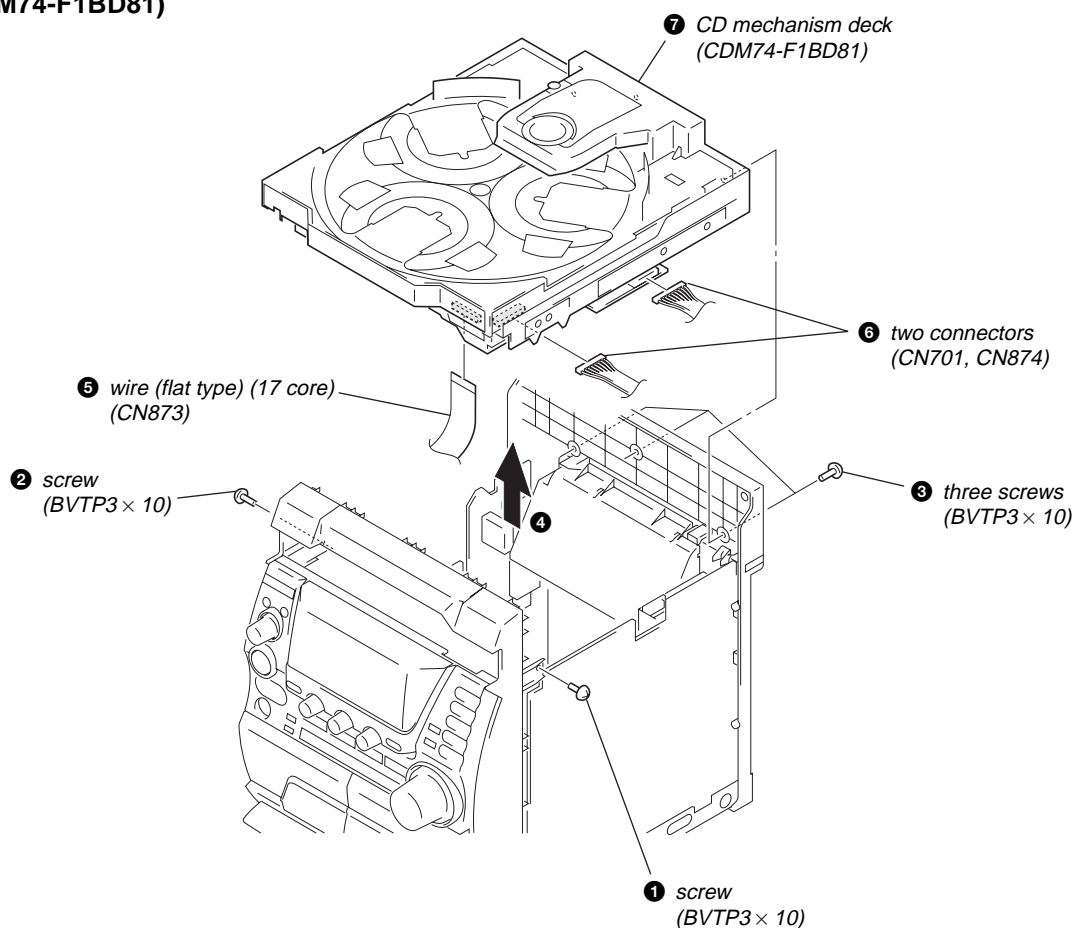
3-3. CASE (TOP)



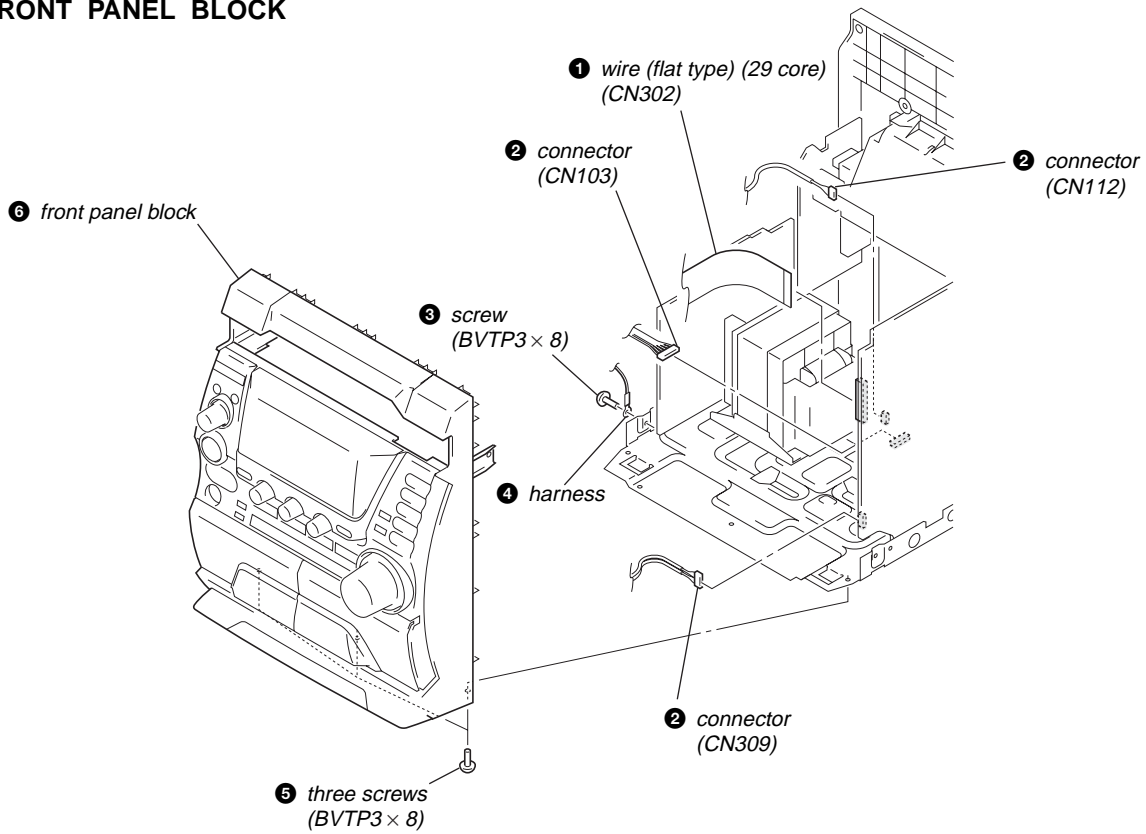
3-4. TRAY PANEL



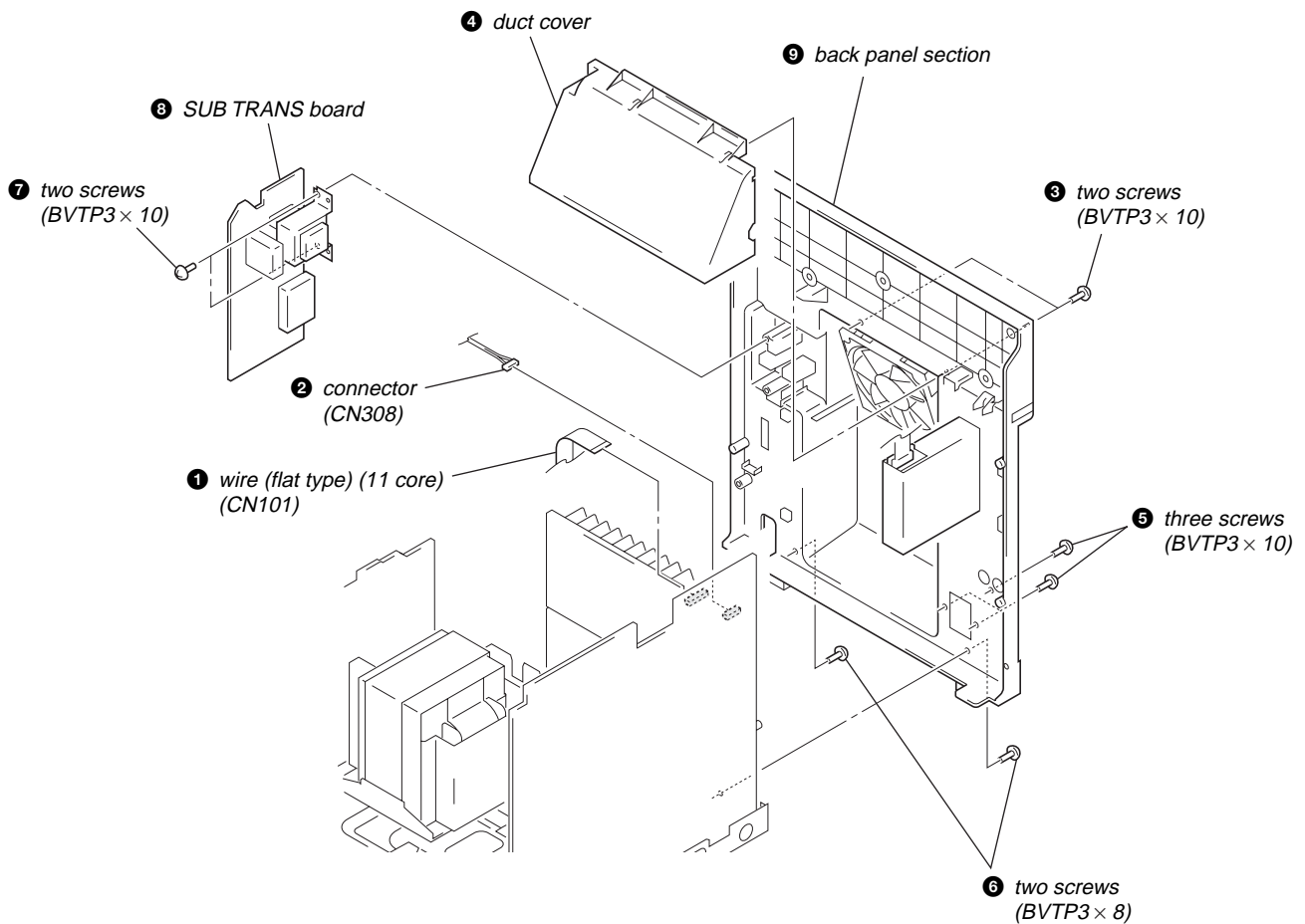
3-5. CD MECHANISM DECK (CDM74-F1BD81)



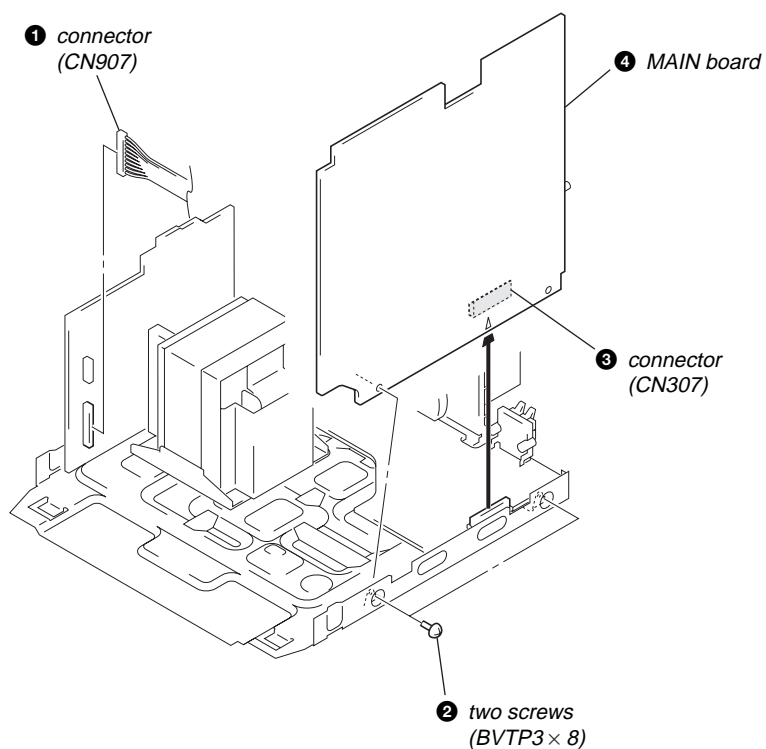
3-6. FRONT PANEL BLOCK



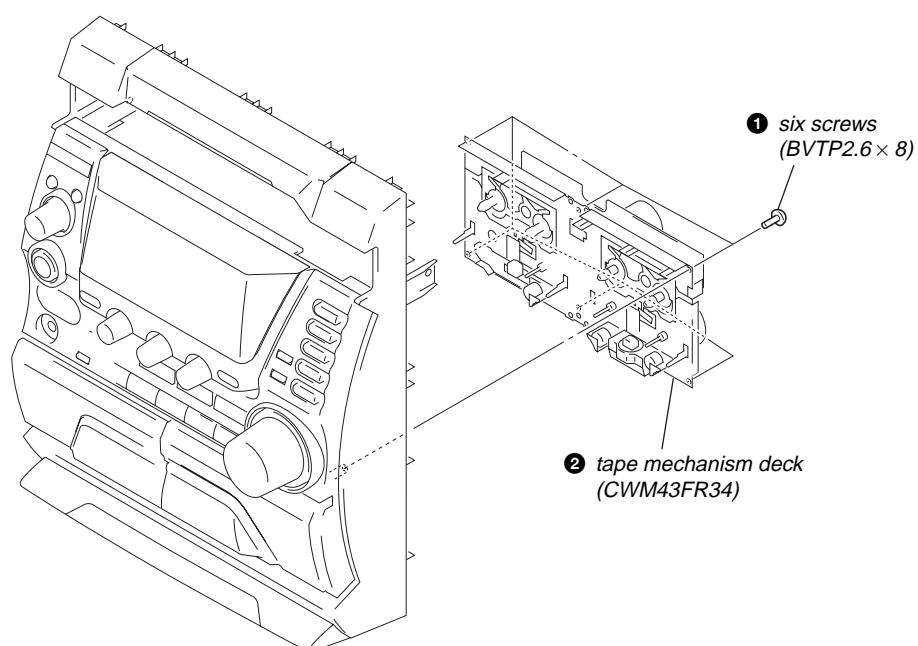
3-7. BACK PANEL SECTION



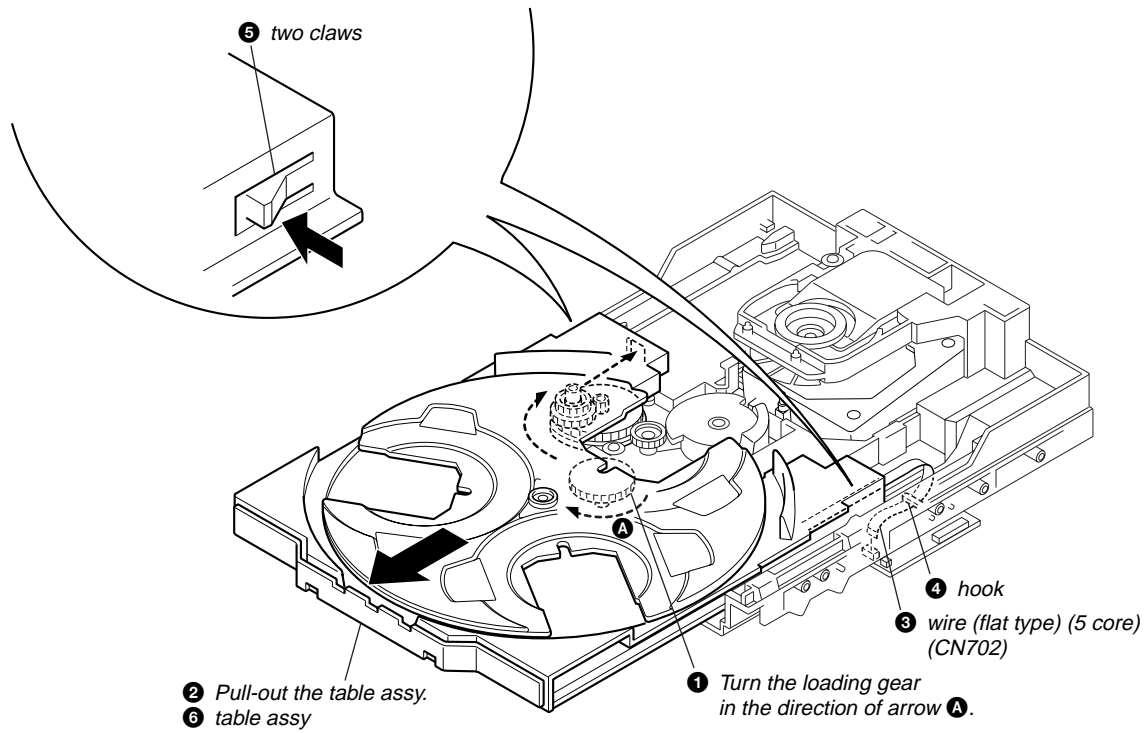
3-8. MAIN BOARD



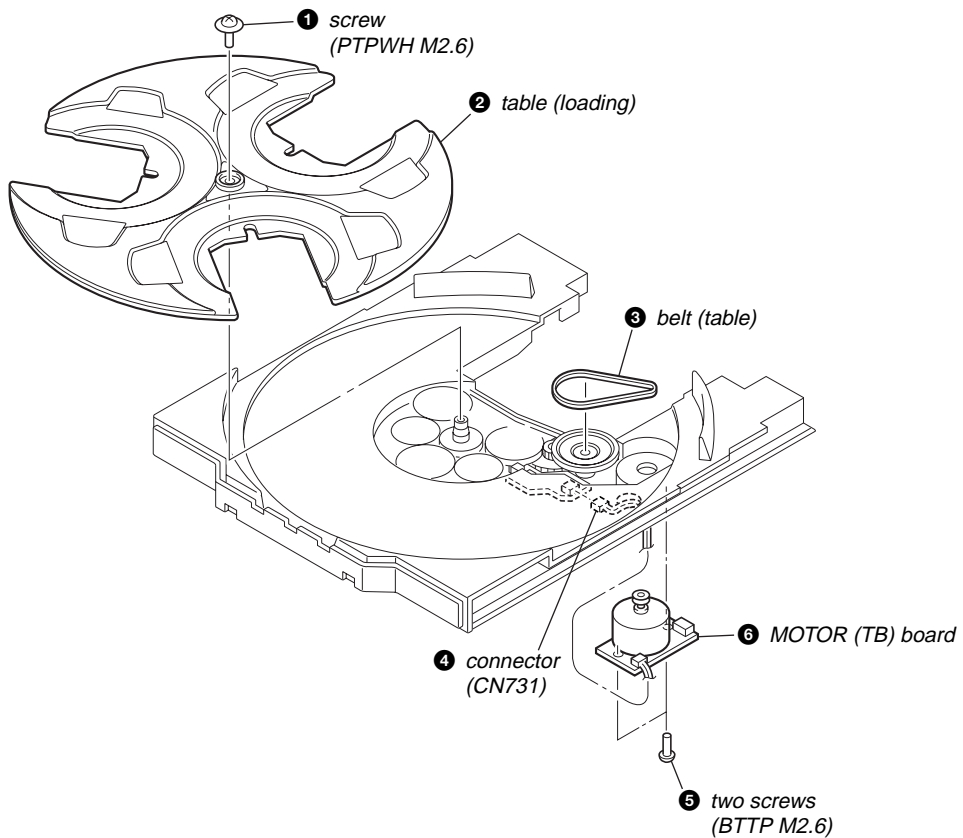
3-9. TAPE MECHANISM DECK (CWM43FR34)



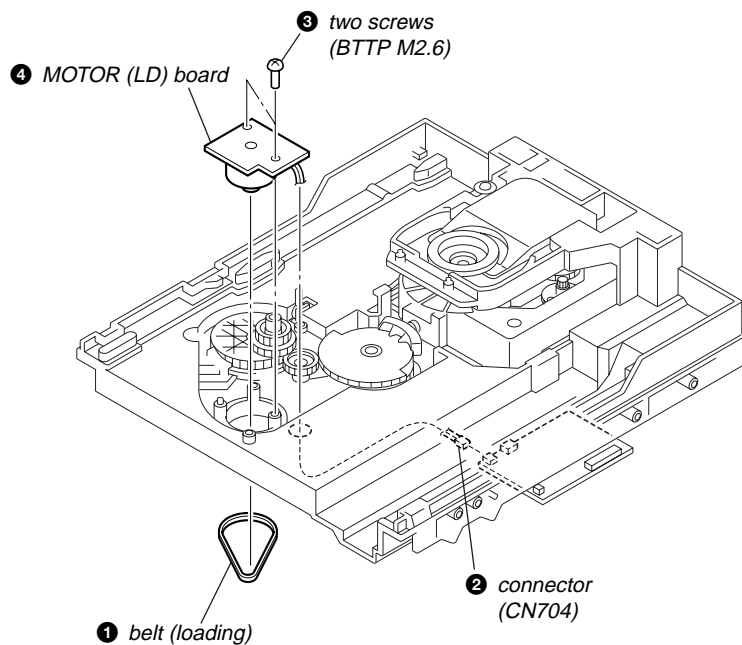
3-10. TABLE ASSY



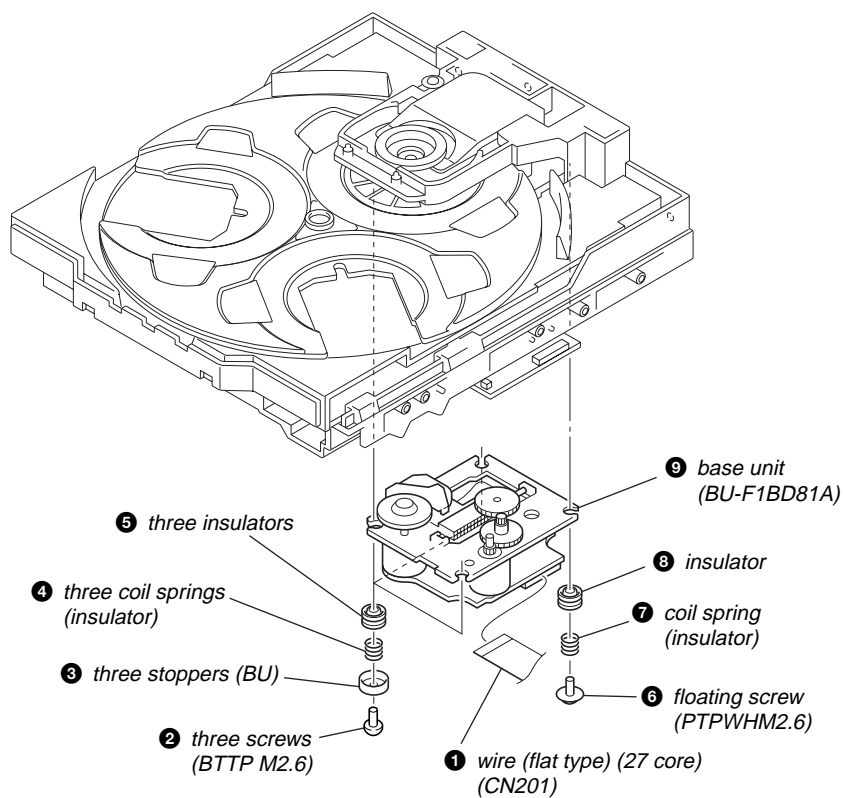
3-11. MOTOR (TB) BOARD



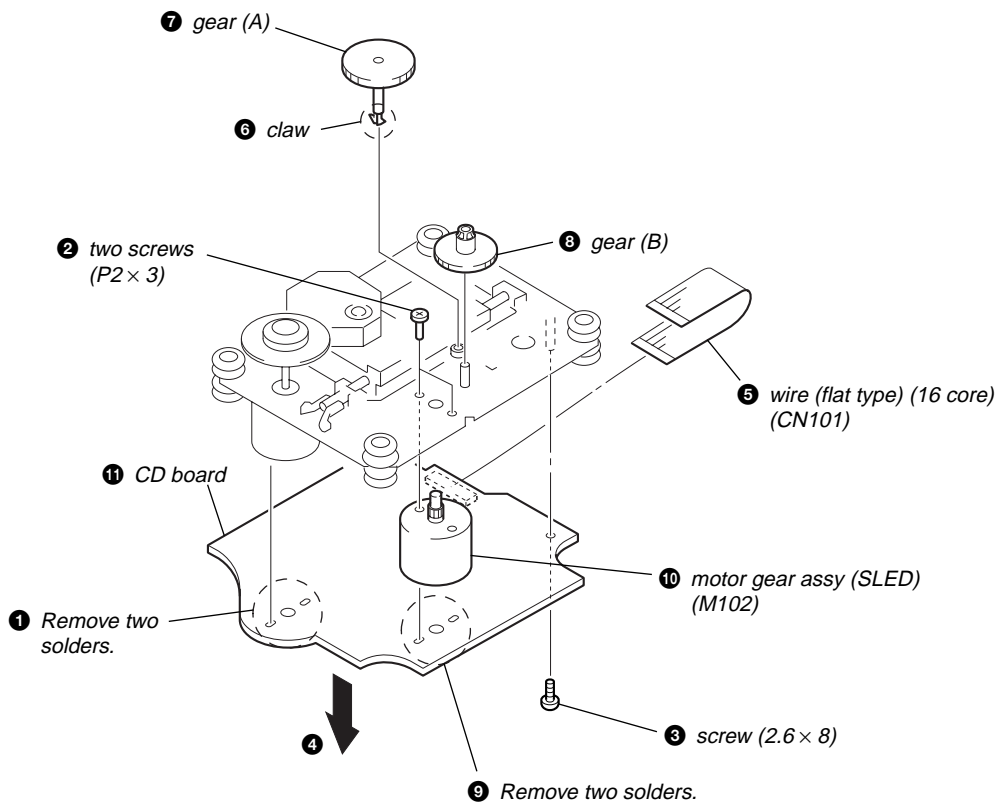
3-12. MOTOR (LD) BOARD



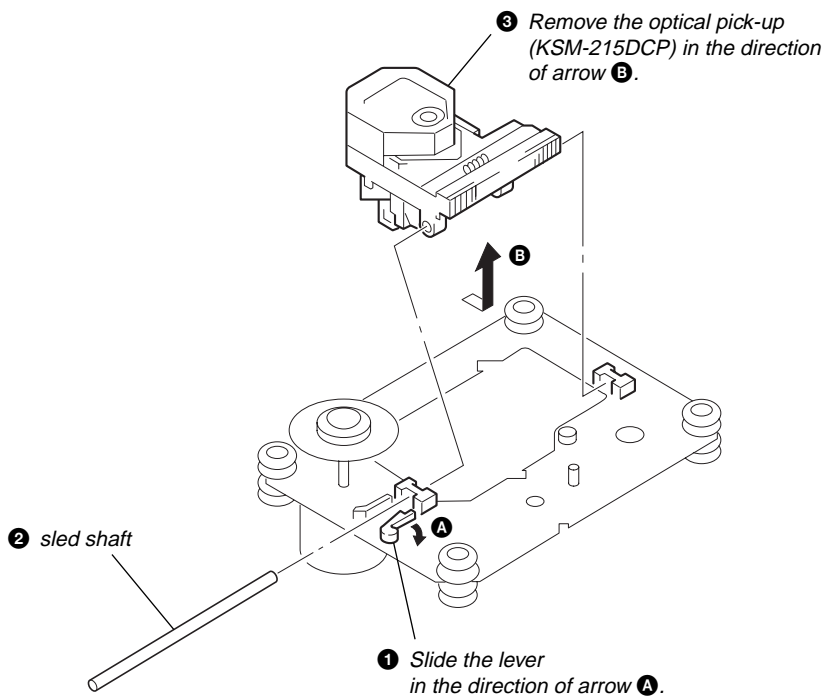
3-13. BASE UNIT (BU-F1BD81A)



3-14. MOTOR GEAR ASSY (SLED) (M102), CD BOARD



3-15. OPTICAL PICK-UP (KSM-215DCP)



SECTION 4 TEST MODE

MC COLD RESET

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

Procedure:

- Press the **I/⏻** button to turn the power ON.
- Press three buttons of **■**, **P FILE** and **DISC 1** simultaneously.
- The message "COLD RESET" is displayed on the fluorescent indicator tube momentarily, then becomes standby states.

TUNER STEP CHANGE-OVER

- A step of AM channels can be changed over between 9 kHz and 10 kHz.

Procedure:

- Press the **I/⏻** button to turn the power ON.
- Press the **TUNER/BAND** button to select "AM".
- Press the **I/⏻** button to turn the power OFF.
- Press two buttons of **PLAY MODE/TUNING MODE** and **I/⏻** simultaneously.
- The message "AM 9K STEP" or "AM 10K STEP" is displayed on the fluorescent indicator tube, and thus the channel step is changed over.

CD SHIP (LOCK) MODE

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

Procedure:

- Press the **I/⏻** button to turn the power ON.
- Press the **CD** button to select "CD".
- Press two buttons of **CD** and **POWER** simultaneously.
- The message "LOCK" is displayed on the fluorescent indicator tube, and the CD ship mode is set.

CD SHIP (LOCK) MODE & COLD RESET

- This mode is used to perform CD chip (lock) mode and cold reset simultaneously.

Procedure:

- Press the **I/⏻** button to turn the power ON.
- Press the **CD** button to select "CD".
- Press three buttons of **■**, **CD** and **DISPLAY** simultaneously.
- The message "COLD RESET" is displayed on the fluorescent indicator tube momentarily, then becomes standby states.

CHANGE-OVER FUNCTION OF MD/VIDEO

- This mode is used to enable function of external input to change over between MD and VIDEO.

Procedure:

- Press the **I/⏻** button to turn the power ON.
- Press two buttons of **VIDEO (MD)** and **I/⏻** simultaneously.
- The message "MD" or "VIDEO" is displayed on the fluorescent indicator tube, and the function of external input is changed over.

CD TRAY LOCK MODE

- This mode is used to unable to take sample disc out of tray in the shop.

Procedure:

- Press the **I/⏻** button to turn the power ON.
- Press the **CD** button to select "CD".
- Set disc on the CD tray, press two buttons of **■** and **▲** for 5 seconds.
- The message "LOCKED" is displayed on the fluorescent indicator tube and the CD tray is locked. (Even if pressing the **▲** button, the message "LOCKED" is displayed on the fluorescent indicator tube and the CD tray is locked)
- To release from this mode, press two buttons of **■** and **▲** for 5 seconds.
- The message "UNLOCKED" is displayed on the fluorescent indicator tube and the CD tray is unlocked.

AMP TEST MODE

- This mode is used to display the parameter of amplifier IC and display the VACS status.

Procedure:

- Press the **I/⏻** button to turn the power ON.
- Press three buttons of **■**, **P FILE** and **PLAY MODE/TUNING MODE** simultaneously.
- When the AMP test mode is activated, the message "AMP TEST IN" is displayed on the fluorescent indicator tube momentarily, then amplifier adjustment mode is displayed on the fluorescent indicator tube.
- Press the **DISPLAY** button to changed over between VACS status display mode and the amplifier IC parameter display mode.
- In the amplifier IC parameter display mode, press the **i-BASS** button to changed over DBFB ON/OFF, and when it is ON, the character "D" is displayed on the fluorescent indicator tube.
- In the amplifier IC parameter display mode, press the **SURROUND** button to changed over surround ON/OFF, and when it is ON, the character "S" is displayed on the fluorescent indicator tube.
- In the amplifier IC parameter display mode, turn each knob of **BASS**, **MIDDLE** and **TREBLE** causes respective parameters to be changed, as well as change-over of the display on the fluorescent indicator tube.

AGING MODE

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

If an error occurred:

The aging operation stops only an error occurred sections and display then status.

If no error occurs:

The aging operation continues repeatedly.

Procedure:

1. Press the **[I/O]** button to turn the power ON.
2. Press the **[CD]** button to select "CD".
3. Set disc on the CD tray and set tape into the deck.
4. Press three buttons of **[■]**, **[P FILE]** and **[DISC SKIP/EX-CHANGE]** simultaneously.
5. Aging operations of CD and tape are started at the same time.
6. To release from this mode, press the **[I/O]** button to turn the power OFF and press the function buttons.

1. Display at the Aging Mode

Display operating state of CD section and tape deck section alternately.

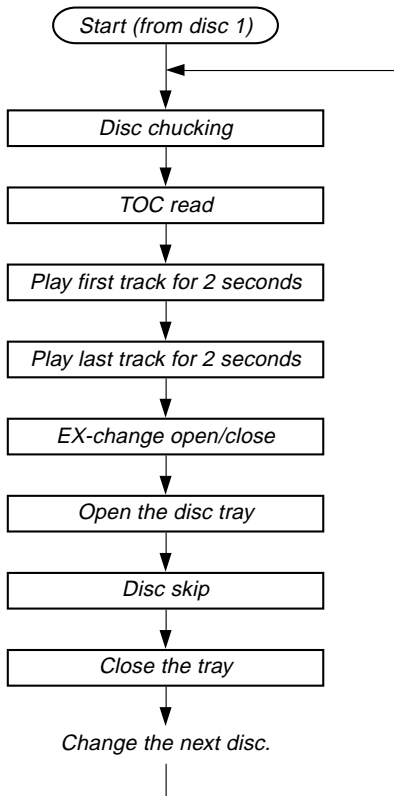
If an error occurred, stop display which that section.

2. CD Section

The sequence during the aging mode is following as below.

Display at the aging mode is the same as the normal operation.

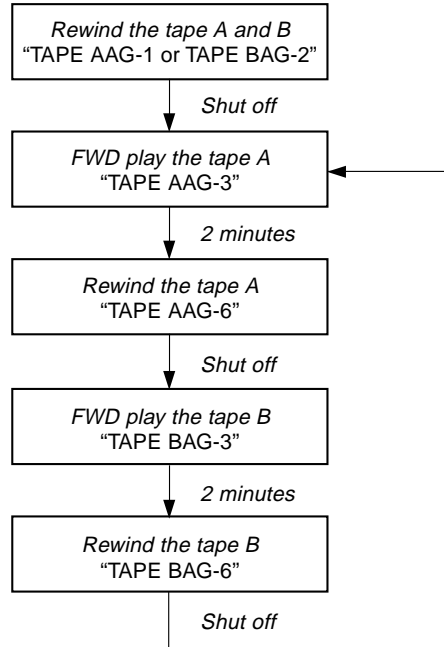
Aging mode sequence (CD section) :



3. Tape Deck Section

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

Aging mode sequence (tape deck section) :



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

PANEL TEST MODE

- This mode is used to check the fluorescent indicator tube, LEDs and buttons.

Procedure:

1. Press the **[I/O]** button to turn the power ON.
2. Press three buttons of **[■]**, **[P FILE]** and **[ENTER]** simultaneously.
3. Fluorescent indicator tube and LEDs are all turned ON.
4. Press two buttons of **[■]** and **[ENTER]** simultaneously, mode is changed over.
5. In the key check mode, press each key, the defined key number of every each key list is displayed on the fluorescent indicator tube.
6. In the key count check mode, "KEYCNT 0" is displayed on the fluorescent indicator tube. Each time a key is pressed, "K" value increases. However, once a key is pressed, it is no longer taken into account.
7. In the headphone input check mode, connect the headphone, the message "H_P ON" is displayed on the fluorescent indicator tube, and disconnect the headphone, the message "H_P OFF" is displayed on the fluorescent indicator tube.
8. In the volume check mode, "VOLUME FLAT" is displayed on the fluorescent indicator tube. Turn the **[VOLUME]** knob clockwise, the message "VOLUME UP" is displayed on the fluorescent indicator tube momentarily and turn the **[VOLUME]** knob counterclockwise, the message "VOLUME DOWN" is displayed on the fluorescent indicator tube momentarily.

MC TEST MODE

- This mode is used to check operations of microprocessor.

Procedure:

- Press the **[I/O]** button to turn the power ON.
- Press three buttons of **[■]**, **[P FILE]** and **[DISC 3]** simultaneously.
- When the MC test mode is activated, VACS level is displayed on the fluorescent indicator tube momentarily.
- Turn the **[AMS/TUNING]** knob clockwise, the message "ALL EQ MAX" is displayed on the fluorescent indicator tube momentarily and turn the **[AMS/TUNING]** knob counterclockwise, the message "ALL EQ MIN" is displayed on the fluorescent indicator tube momentarily.
- Press the **[PRESET EQ]** button, the message "ALL EQ FLAT" is displayed on the fluorescent indicator tube momentarily.
- Turn the **[VOLUME]** knob clockwise, the message "VOLUME MAX" is displayed on the fluorescent indicator tube momentarily and turn the **[VOLUME]** knob counterclockwise, the message "VOLUME MIN" is displayed on the fluorescent indicator tube momentarily.
- Press the **[i-BASS]** button to changed over VACS ON/OFF.
- When the **[REC PAUSE/START]** button is pressed twice with a tape set in the deck-B, the function is switched "MD" or "VIDEO" and recording starts. When the **[◀▶]** or **[▶▶]** button is pressed during recording, the tape is rewound back to the beginning of recording, the function is switched to "TAPE B", then playback starts.
- When the **[CD SYNC]** key is pressed with the test tape (AMS-100, AMS-110A) in the deck, number of space between tunes is counted, then if AMS-110A is set, "OK" is displayed on the fluorescent indicator tube and if AMS-100 is set, "NG" is displayed on the fluorescent indicator tube.
- Press the **[I/O]** button to release from this mode, then cold reset is performed.

VERSION DISPLAY MODE

- This mode is used to check the model, destination and software version.

Procedure:

- Press the **[I/O]** button to turn the power ON.
- Press three buttons of **[■]**, **[P FILE]** and **[DISC 2]** simultaneously.
- When this mode is activated, model and destination is displayed on the fluorescent indicator tube.
- Press the **[DISPLAY]** button to changed over between software version and year, month, day of the software creation display mode and model and destination display mode.
- To release from this mode, press three buttons of **[■]**, **[P FILE]** and **[DISC 2]** simultaneously.

CD ERROR CODE DISPLAY MODE

- This mode can be used for error code display of CD section.

Procedure:

- Press the **[I/O]** button to turn the power ON.
- Press the **[CD]** key to select "CD".
- Press three buttons of **[■]**, **[CD]** and **[DISC 1]** simultaneously.
- When this mode is activated, mechanism deck error code is displayed on the fluorescent indicator tube.
- Press the **[i-BASS]** button to changed over between optical pick-up error code display mode and mechanism deck error code mode.
- Turn the **[AMS/TUNING]** knob to change over display of error history.

1. Mechanism Deck Error Code Mode

- When this mode is entered, mechanism deck error code is displayed with the 10-character format on the fluorescent indicator tube.

The first digit from the left indicates:

The first digit from the left indicates which mode the error history is. In the mechanism deck error code mode, "M" is displayed on the fluorescent indicator tube.

The second digit from the left indicates:

(Error history No. display)

The second digit from the left indicates which order the error history is. "1" indicates the latest error history, and each time the number increases by one, the error history goes back to one-previous error.

The third and 4th digit from the left indicates:

(Error status display)

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

Display	Status
0 0	No error
0 8	Table operation time-out (Table does not move to the target position within the specified time)
1 6	In the chucking down operation, the operation was retried by the maximum number of times but the operation could not be completed
1 7	In the chucking up and down operation, the reverse recovery processing was attempted but it could not be recovered
1 8	In the chucking up operation, the operation was retried by the maximum number of times but the operation could not be completed
2 0	Loading operation time-out (Table does not move to the target position within the specified time)
2 2	As the chuck was in the ex-open status at the initialization, the closing was attempted but could not be completed

The 5th and 6th digit from the left indicates:

(Present status display)

The 5th and 6th digit from the left indicates which operating status when an error occurred is indicated.

Display	Status
0 1	Open completion status
0 2	From open status, the movement to chucking down position is under way
0 3	From chucking down position, the open operation is under way
0 4	Chucking down completion status
1 0	The chucking down operation is under way
1 1	The chucking up operation is under way
1 2	Close completion status
1 3	From close status, the ex-open operation is under way
1 4	From ex-open status, the close operation is under way
1 8	Ex-pen completion status

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

(Motor status display)

The 7th and 8th digit from the left indicates which motor output status when an error occurred is indicated.

Display	Status
× 0	No table motor output
× 1	Table motor forward output
× 2	Table motor backward output
× 3	Table motor break output
0 ×	No loading motor output
1 ×	Loading motor forward output
2 ×	Loading motor backward output
3 ×	Loading motor break output

The 9th and 10 th digit from the left indicates:

(Tray status display)

The 9th and 10th digit from the left indicates which target processing when an error occurred is indicated.

Display	Status
0 1	Open operation
1 2	Close operation
1 8	Ex-open operation

2. Optical Pick-up Error Code Mode

- When this mode is entered, optical pick-up error code is displayed with the 8-character format on the fluorescent indicator tube.

The first digit from the left indicates:

The first digit from the left indicates which mode the error history is. In the optical pick-up error code mode, “D” is displayed on the fluorescent indicator tube.

The second digit from the left indicates:

(Error history No. display)

The second digit from the left indicates which order the error history is. “1” indicates the latest error history, and each time the number increases by one, the error history goes back to one-previous error.

The third and 4th digit from the left indicates:

(Error status display)

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

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

The 5th and 6th digit from the left indicates:

(Error step display)

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

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

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

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

5 REPEAT LIMIT CANCEL MODE

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

Procedure:

1. Press the **[I/O]** button to turn the power ON.
2. Press the **[CD]** button to select “CD”.
3. Press three buttons of **[■]**, **[CD]** and **[ENTER]** simultaneously.
4. The message “LIMIT OFF” is displayed on the fluorescent indicator tube momentarily, CD repeat 5 limit is cancelled.

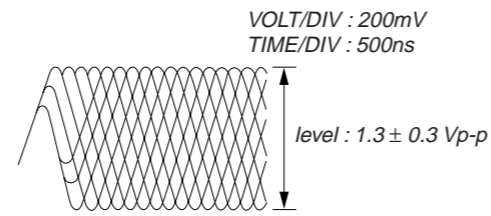
SECTION 5 ELECTRICAL ADJUSTMENTS

CD SECTION

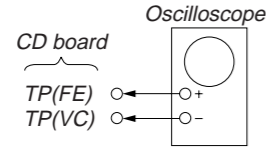
Note:

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

RF signal waveform

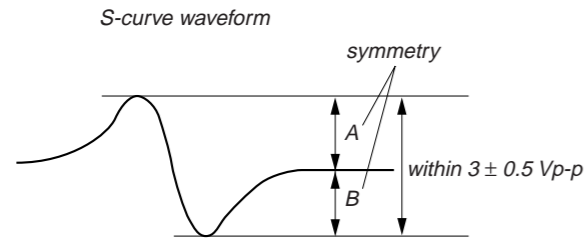


S-CURVE CHECK



Procedure :

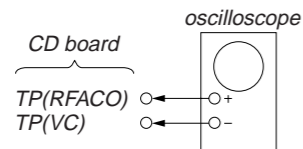
1. Connect an oscilloscope to TP (FE) and TP (VC) on the CD board.
2. Press the button to turn the power ON.
3. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
4. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3 ± 0.5 Vp-p.



- 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.

Connecting Location: CD board

RFAC LEVEL CHECK



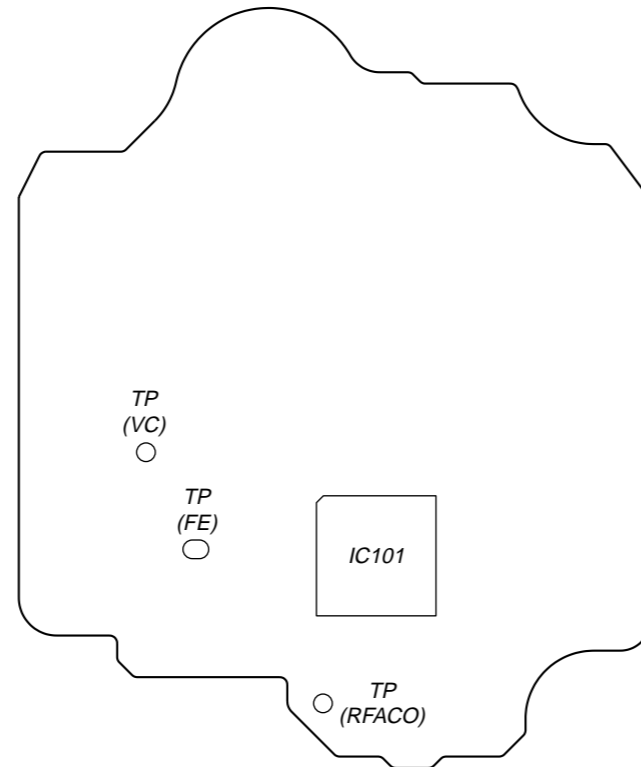
Procedure :

1. Connect an oscilloscope to TP (RFACO) and TP (VC) on the CD board.
2. Press the button to turn the power ON.
3. Load a disc (YEDS-18) and playback.
4. Confirm that oscilloscope waveform is clear and check if RFAC signal level is correct or not.

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

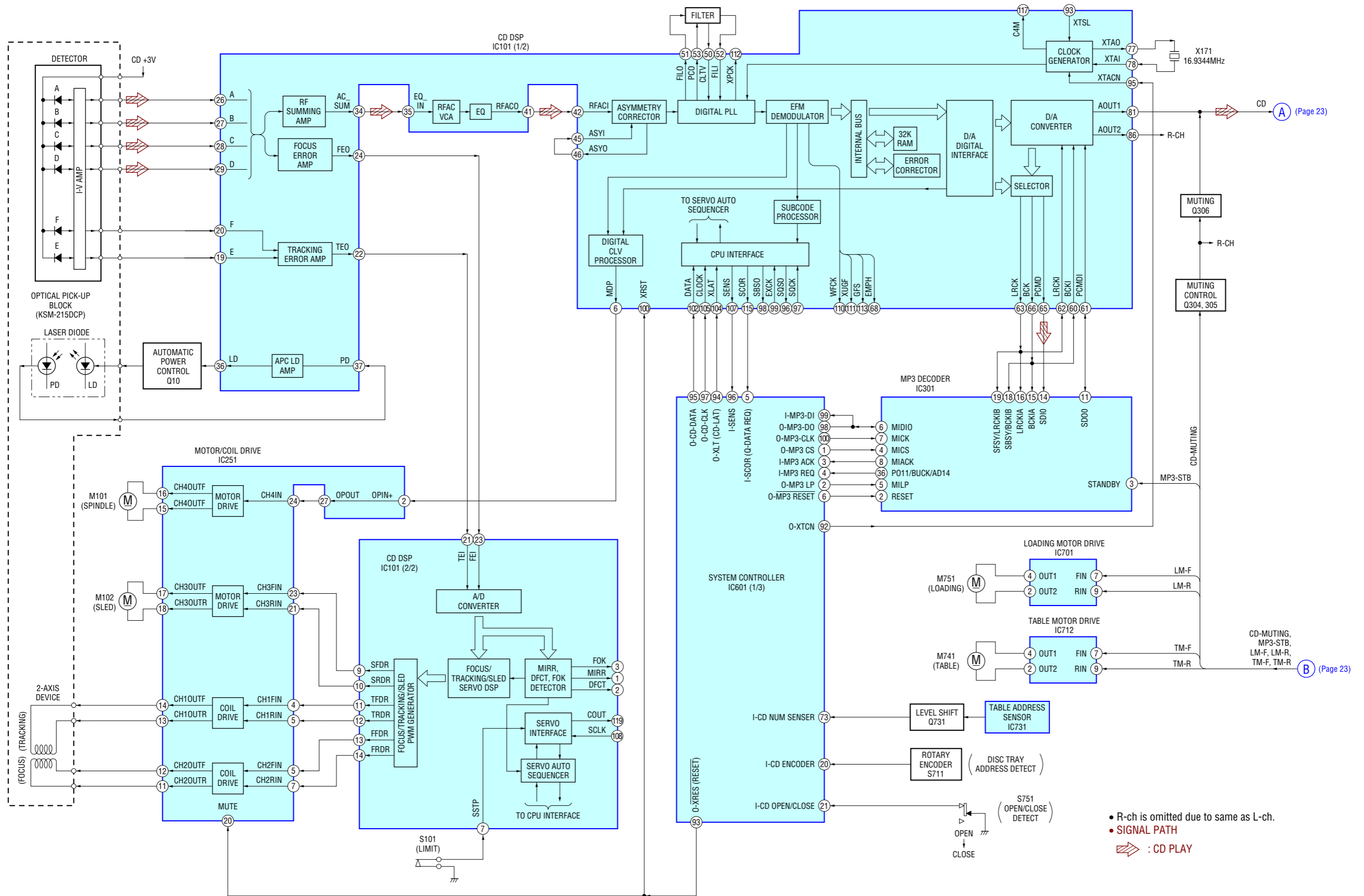
Connecting Location: CD board

– CD BOARD (Conductor Side) –



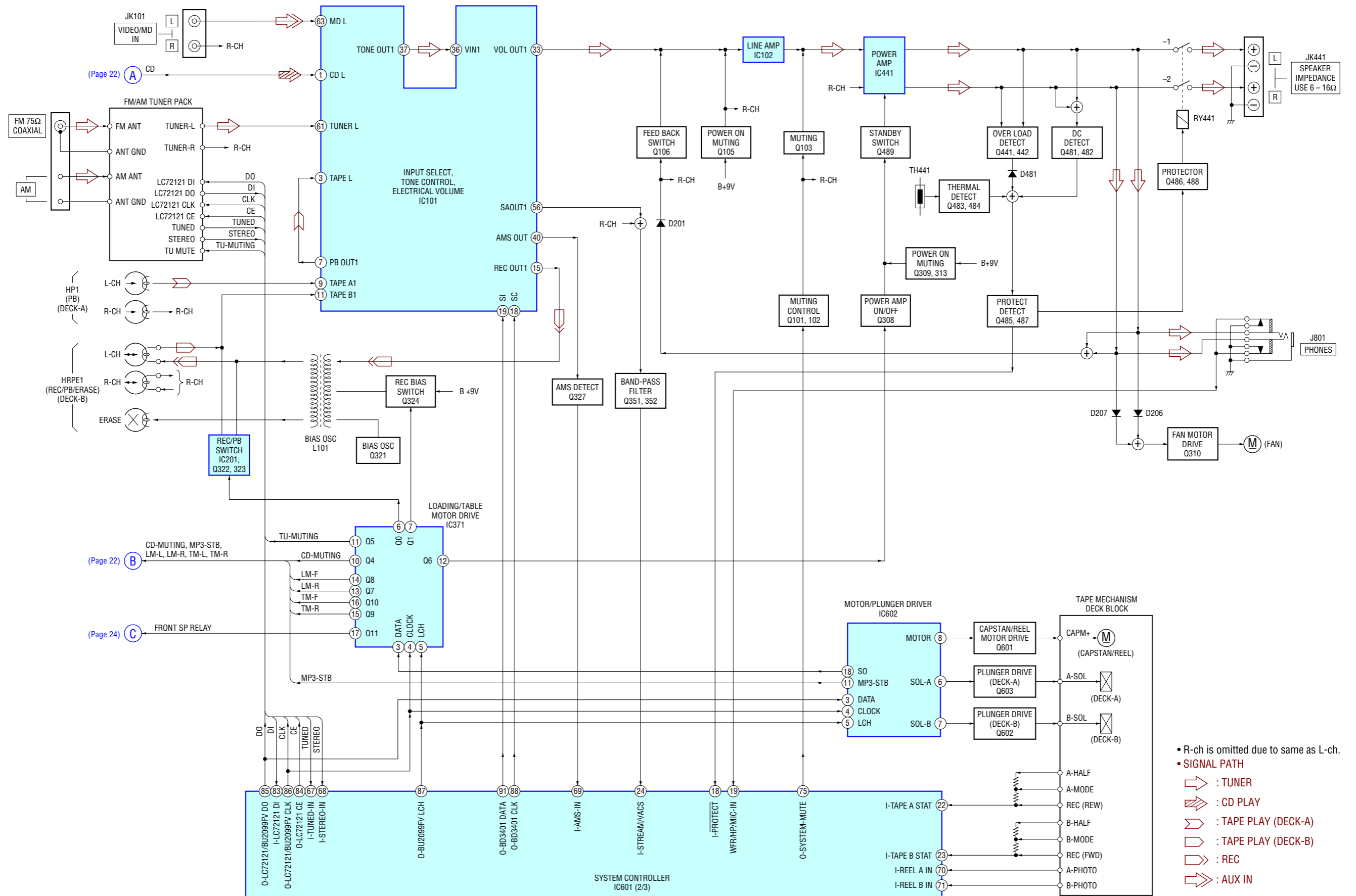
SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM – SERVO Section –

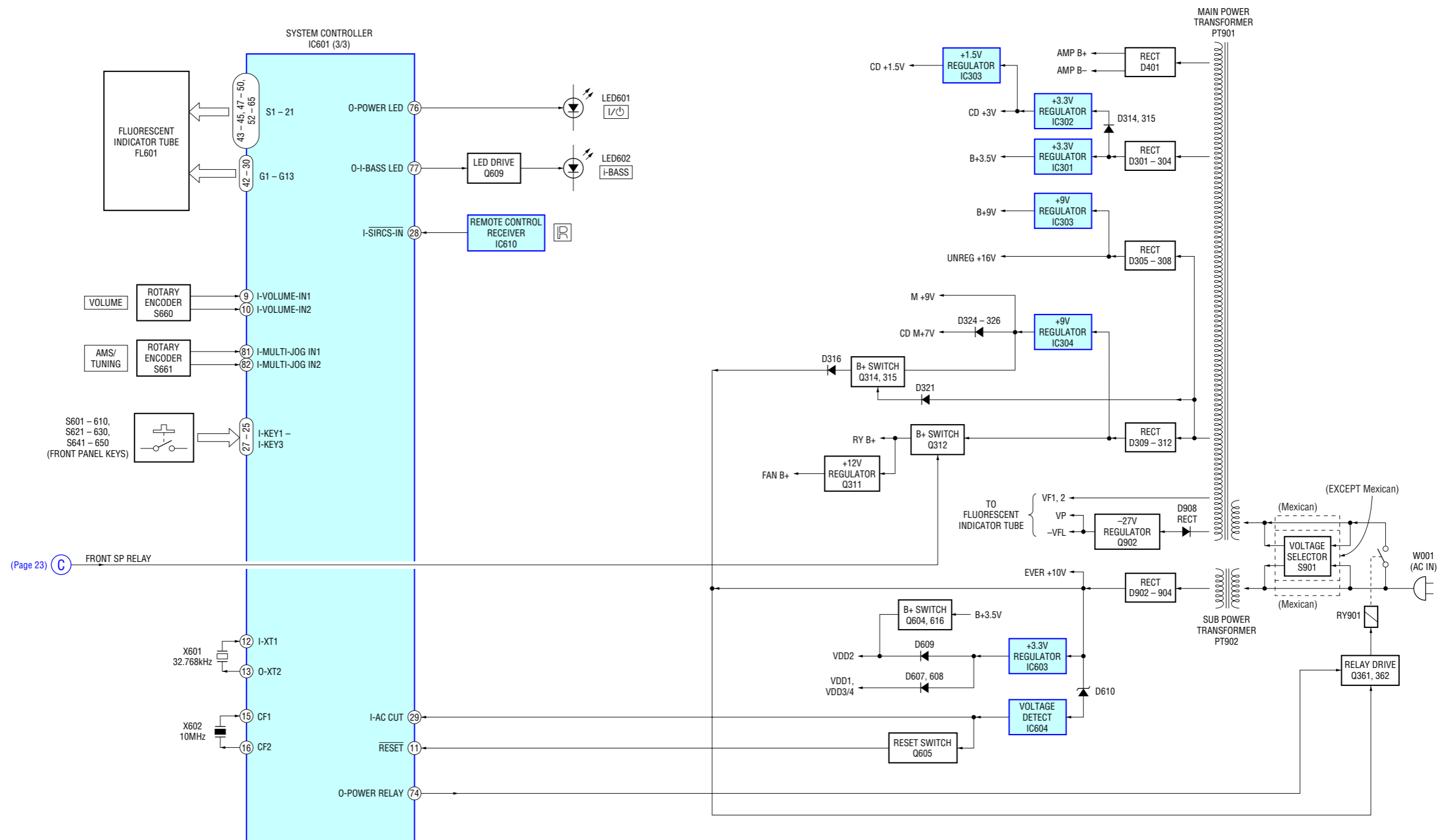


• R-ch is omitted due to same as L-ch.
 • SIGNAL PATH
 ⇨ : CD PLAY

6-2. BLOCK DIAGRAM – MAIN Section –



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

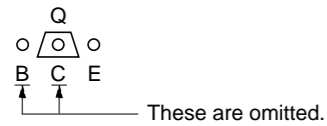
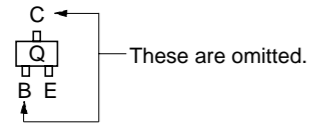


(Page 23) C FRONT SP RELAY

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

Note on Printed Wiring Board:

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



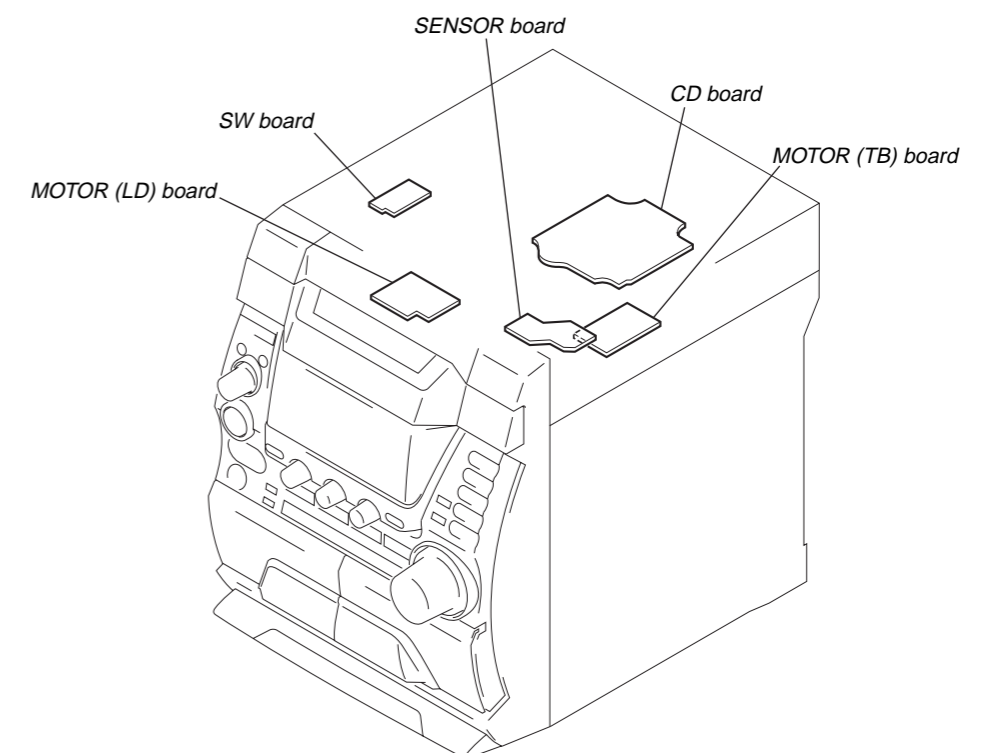
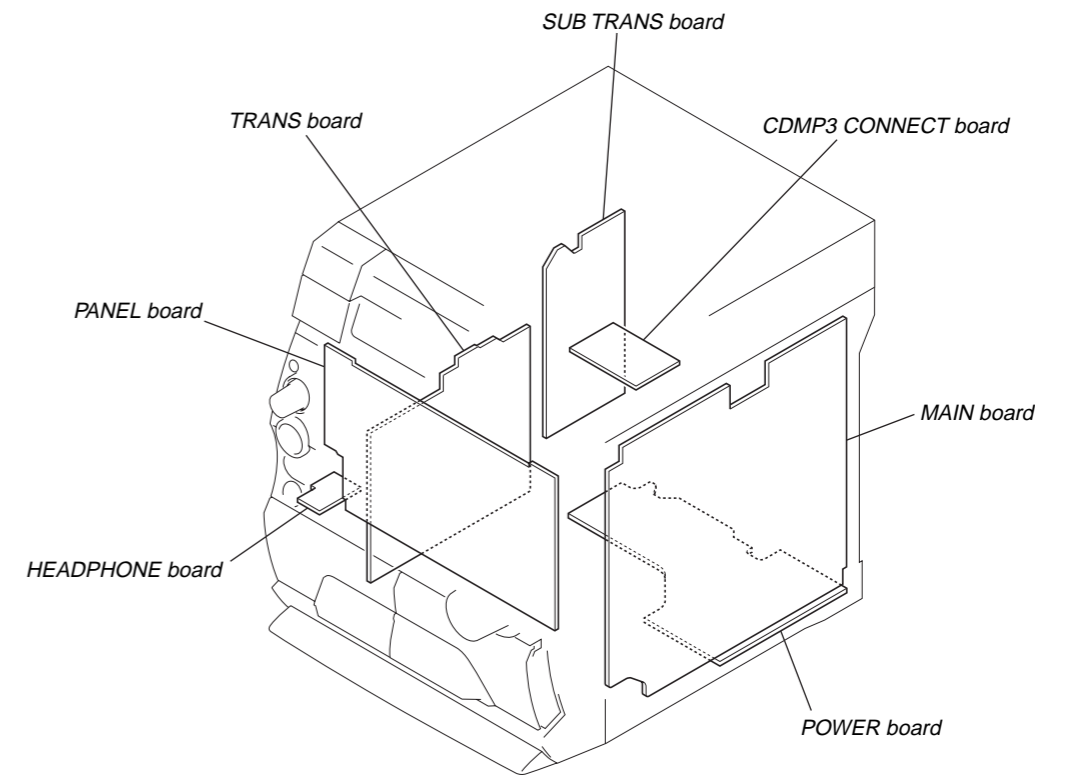
Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μpF 50 WV 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.
- Δ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

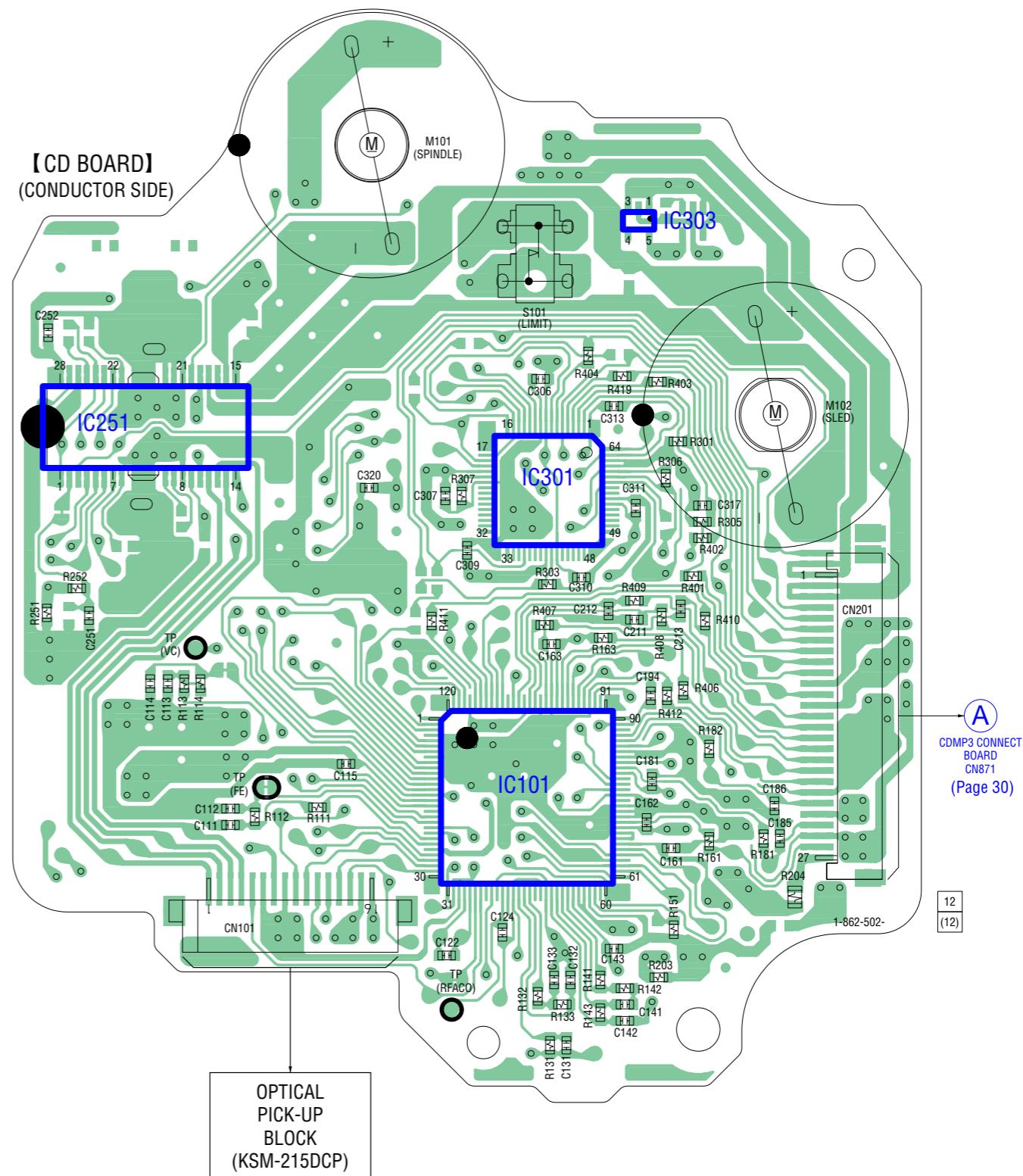
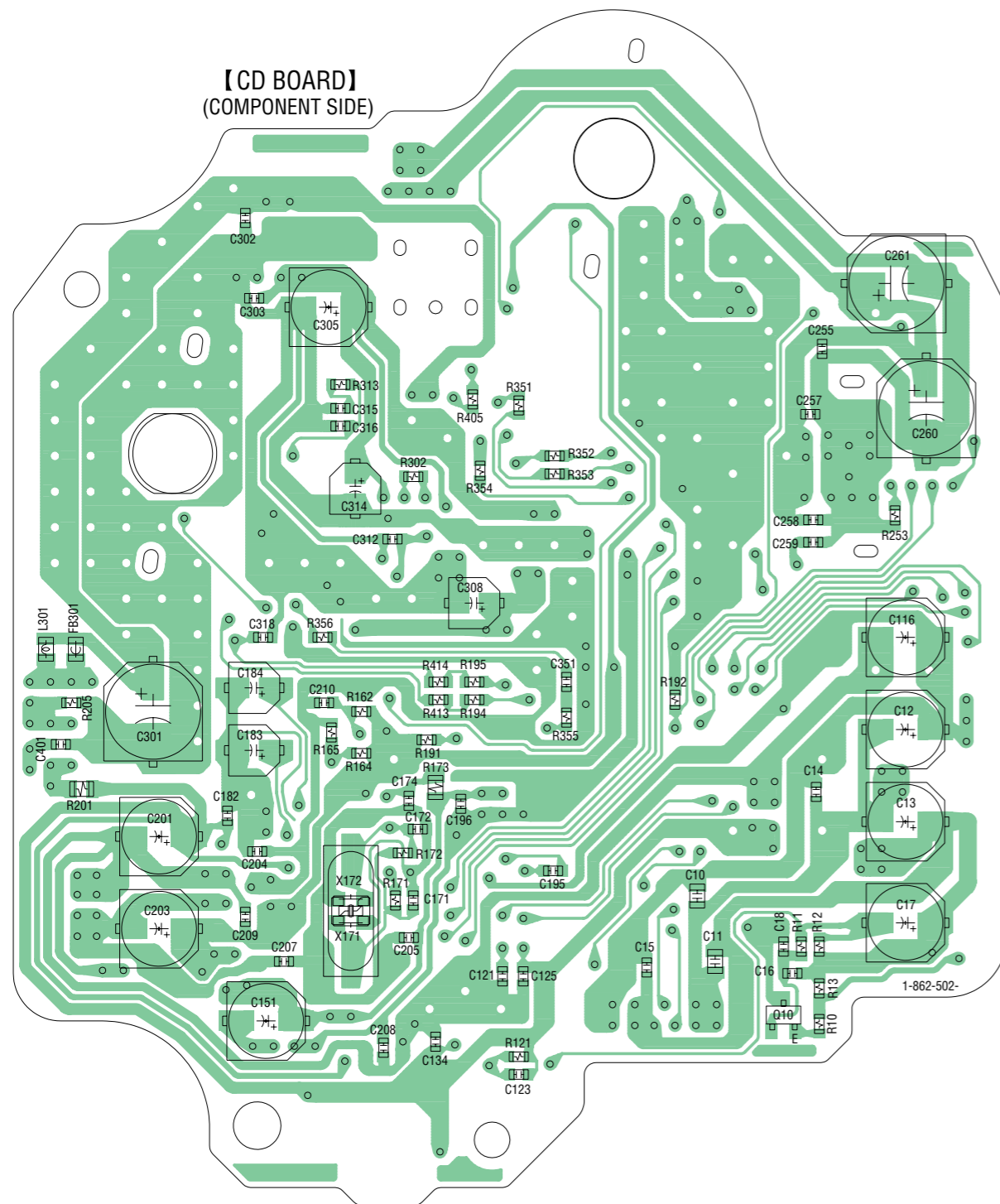
Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- : B+ Line.
- : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
 - BD Section -
 - no mark : CD PLAY
 - Other Sections -
 - no mark : FM
 - () : TAPE PLAY
 - << >> : TAPE REC
 - [] : CD PLAY
 - * : 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)
 - : REC
 - : CD PLAY
 - : AUX IN
- Abbreviation
 - AUS : Australian model
 - E51 : Chilean and Peruvian models
 - MX : Mexican model
 - SP : Singapore model
 - TW : Taiwan model

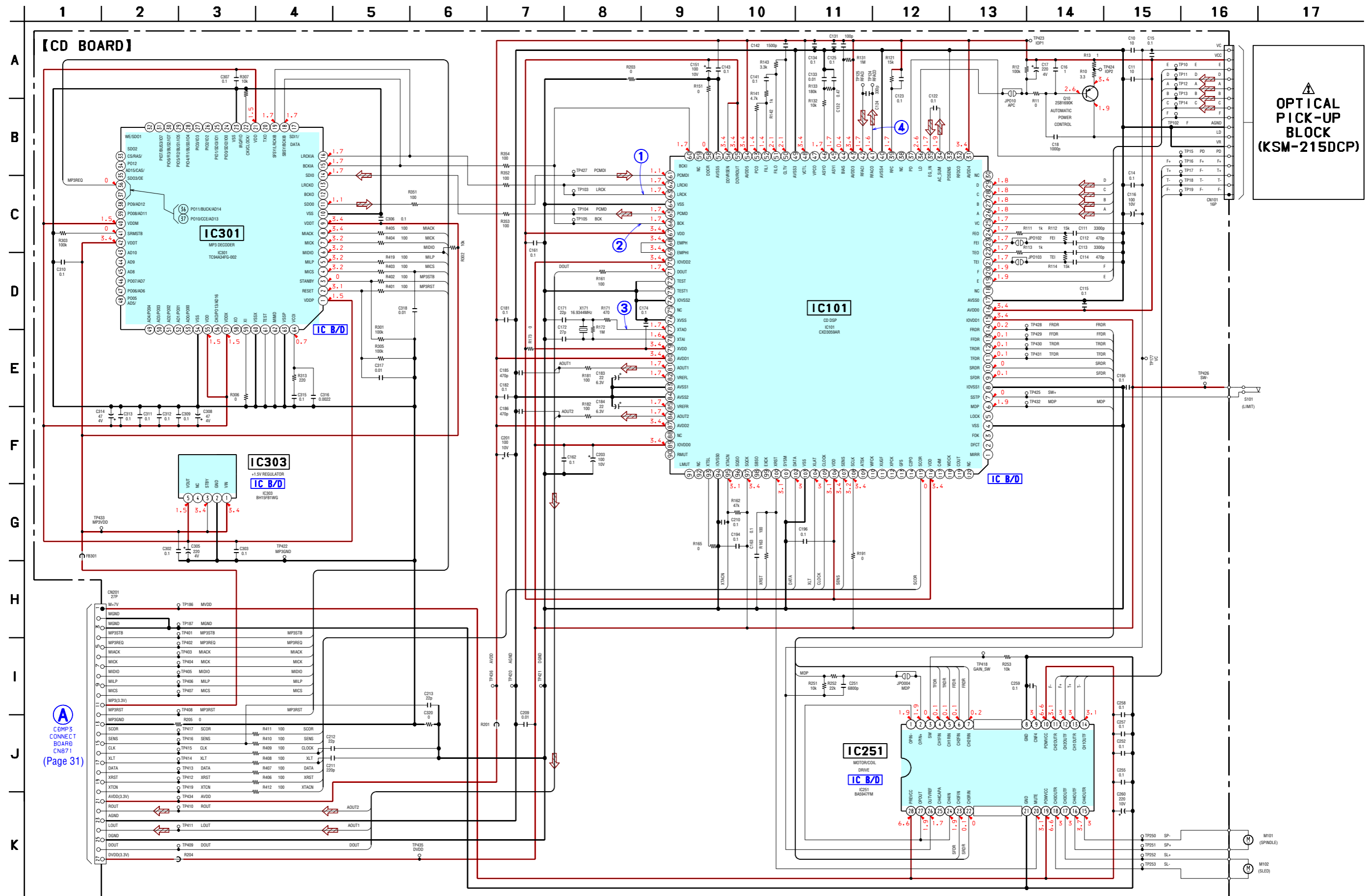
• Circuit Boards Location



6-5. PRINTED WIRING BOARD – CD Board – • See page 25 for Circuit Boards Location.  :Uses unleaded solder.



6-6. SCHEMATIC DIAGRAM – CD Board – • See page 44 for IC Block Diagrams. • See page 44 for Waveforms.

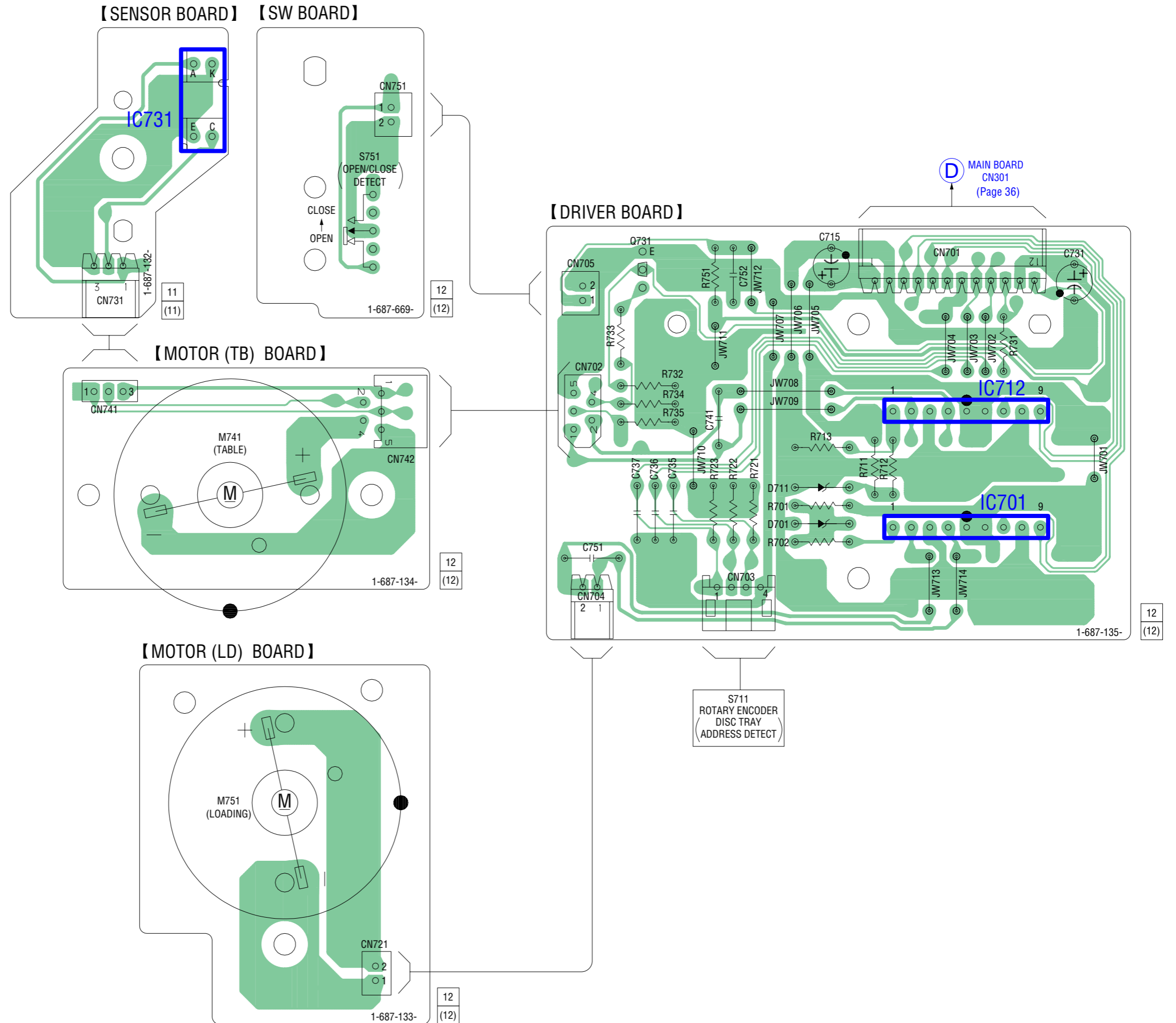


A
CMP3 CONNECT BOARD CN871 (Page 31)

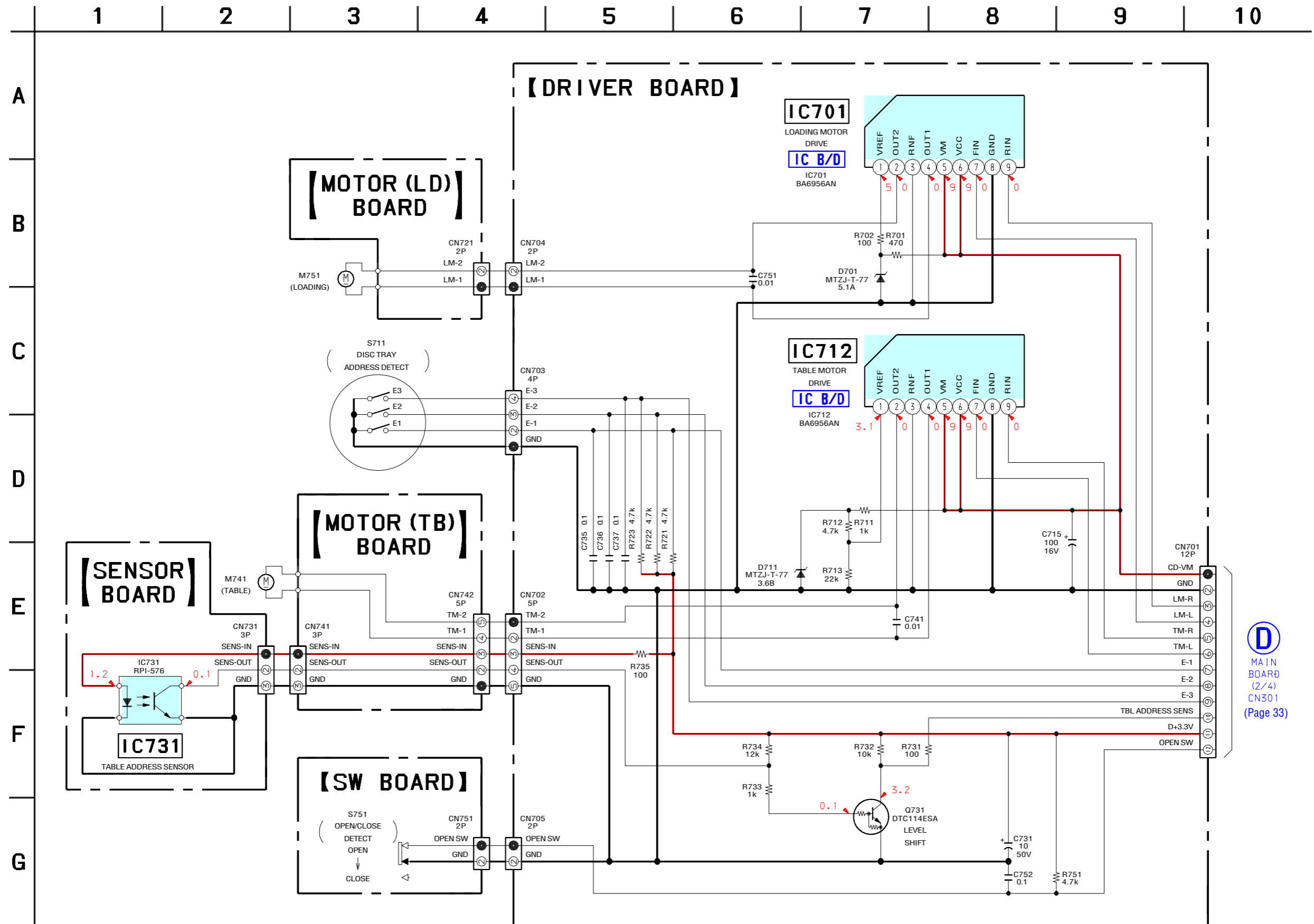
OPTICAL PICK-UP BLOCK (KSM-215DCP)

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

6-7. PRINTED WIRING BOARDS – CHANGER Section – • See page 25 for Circuit Boards Location.  :Uses unleaded solder.



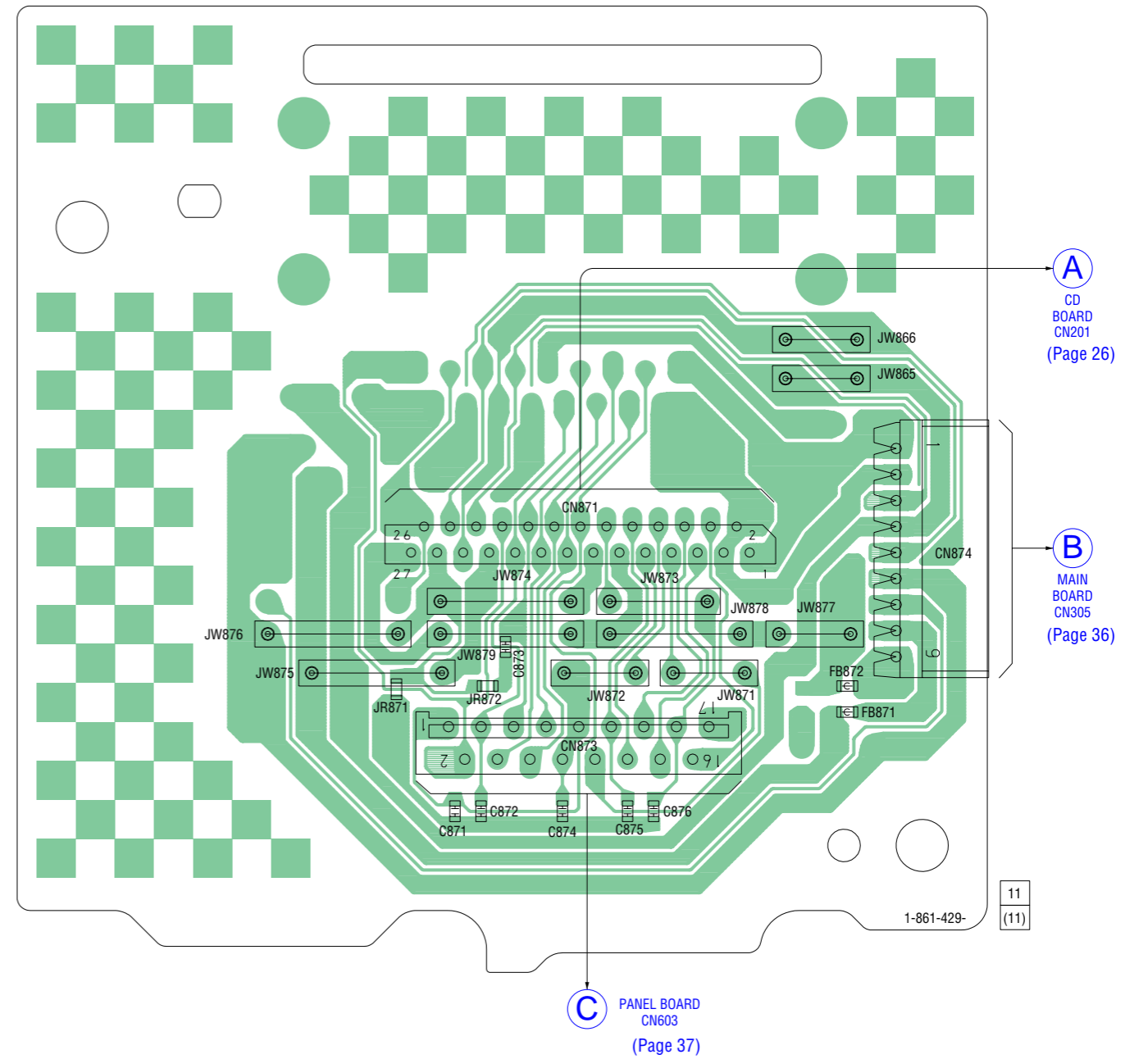
6-8. SCHEMATIC DIAGRAM – CHANGER Section –



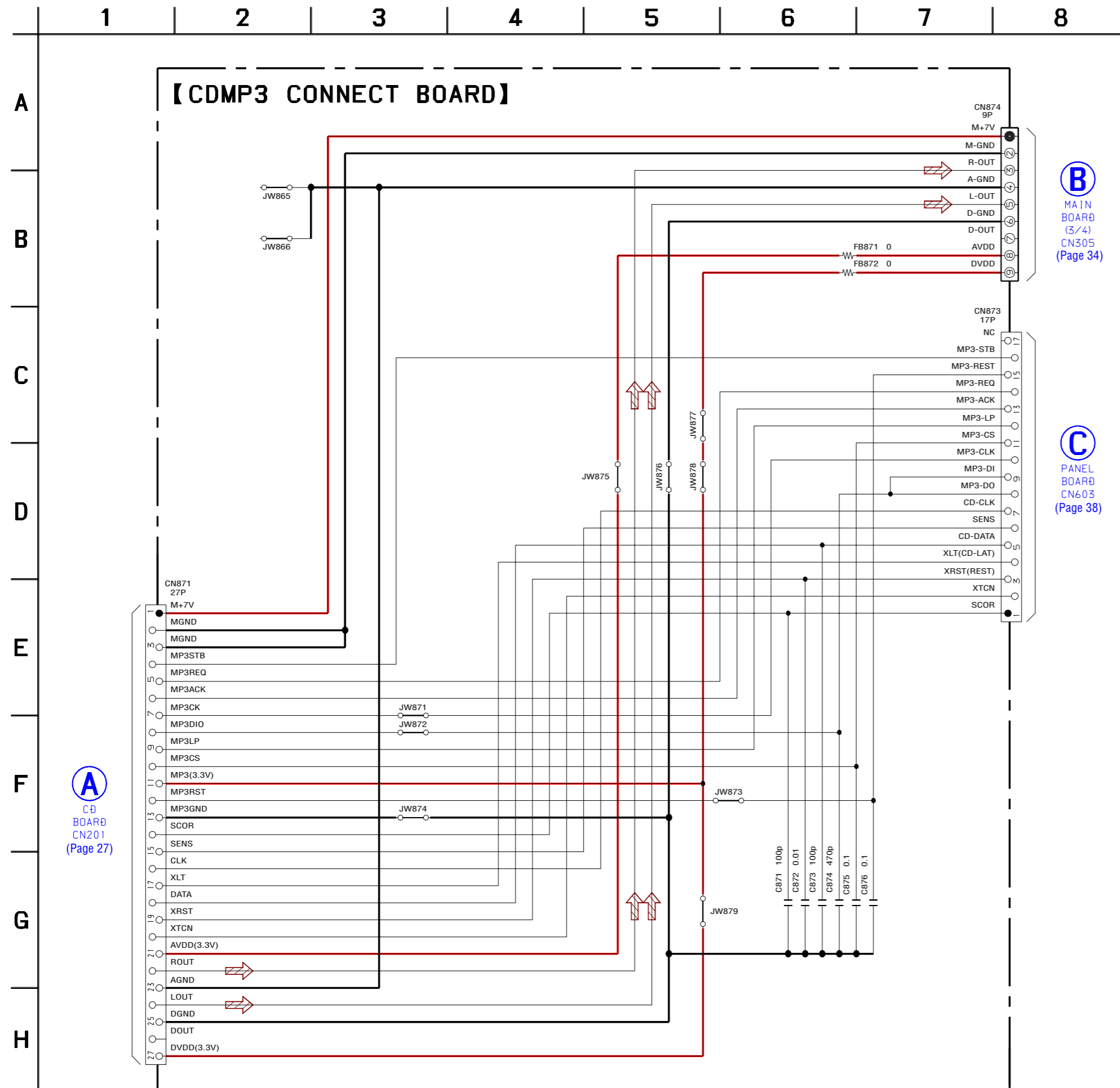
6-9. PRINTED WIRING BOARD – CDMP3 CONNECT Board – • See page 25 for Circuit Boards Location.

 :Uses unleaded solder.

【CDMP3 CONNECT BOARD】



6-10. SCHEMATIC DIAGRAM – CDMP3 CONNECT Board –

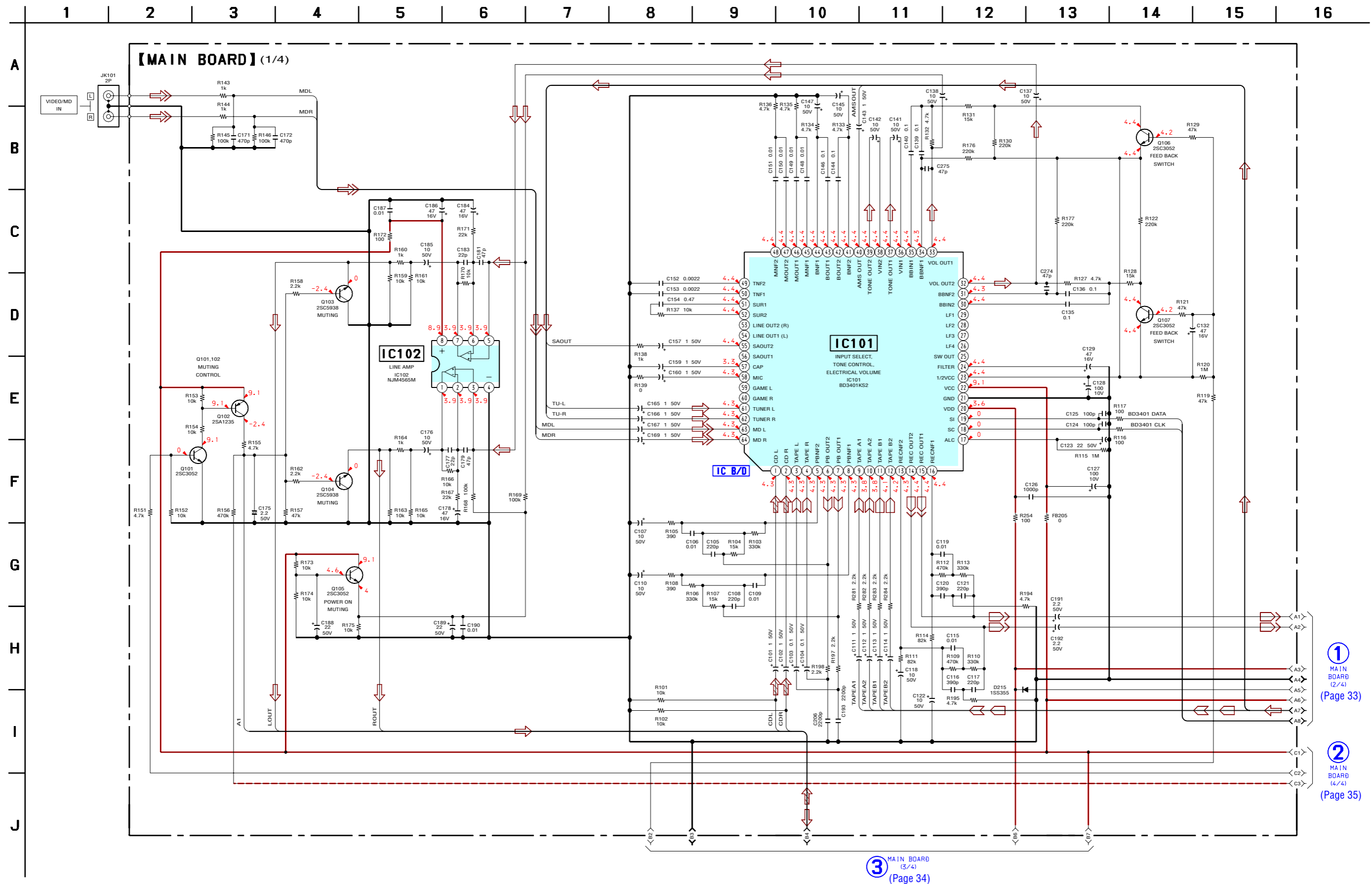


A
CD BOARD
CN201
(Page 27)

B
MAIN BOARD
(3/4)
CN305
(Page 34)

C
PANEL BOARD
CN603
(Page 38)

6-11. SCHEMATIC DIAGRAM – MAIN Section (1/4) – • See page 44 for IC Block Diagram.

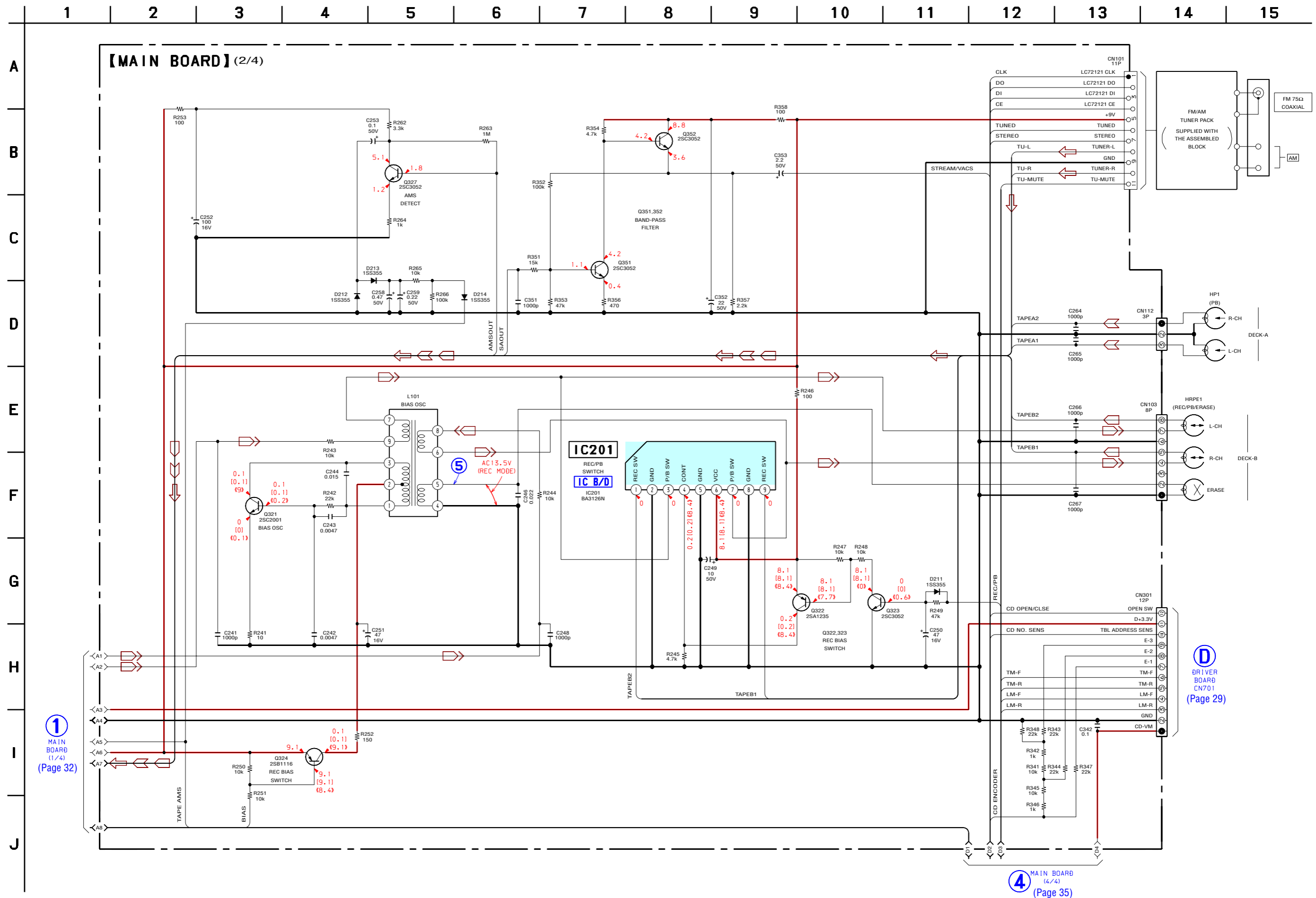


1 MAIN BOARD (2/4) (Page 33)

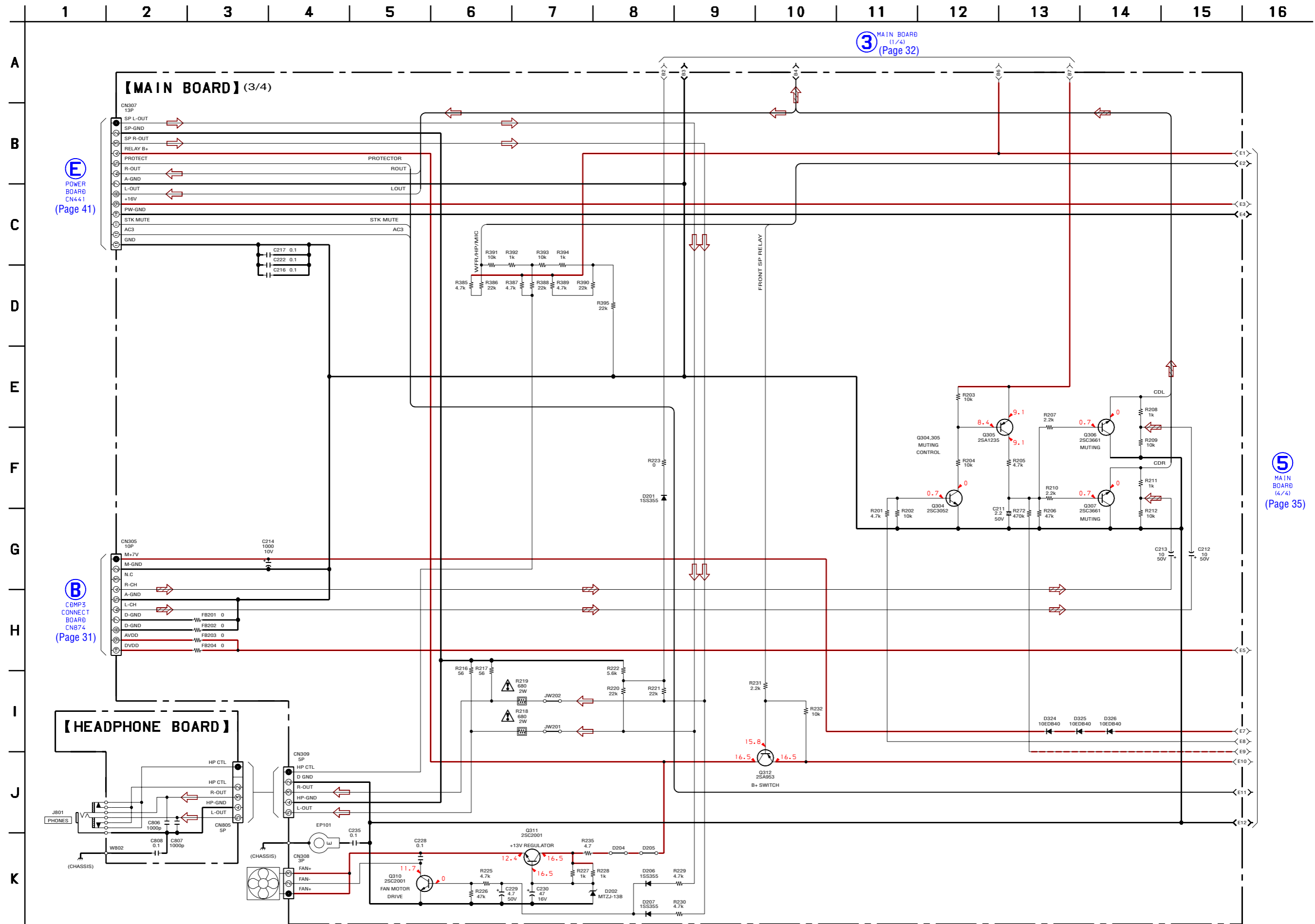
2 MAIN BOARD (4/4) (Page 35)

3 MAIN BOARD (3/4) (Page 34)

6-12. SCHEMATIC DIAGRAM – MAIN Section (2/4) – • See page 44 for IC Block Diagram. • See page 44 for Waveform.

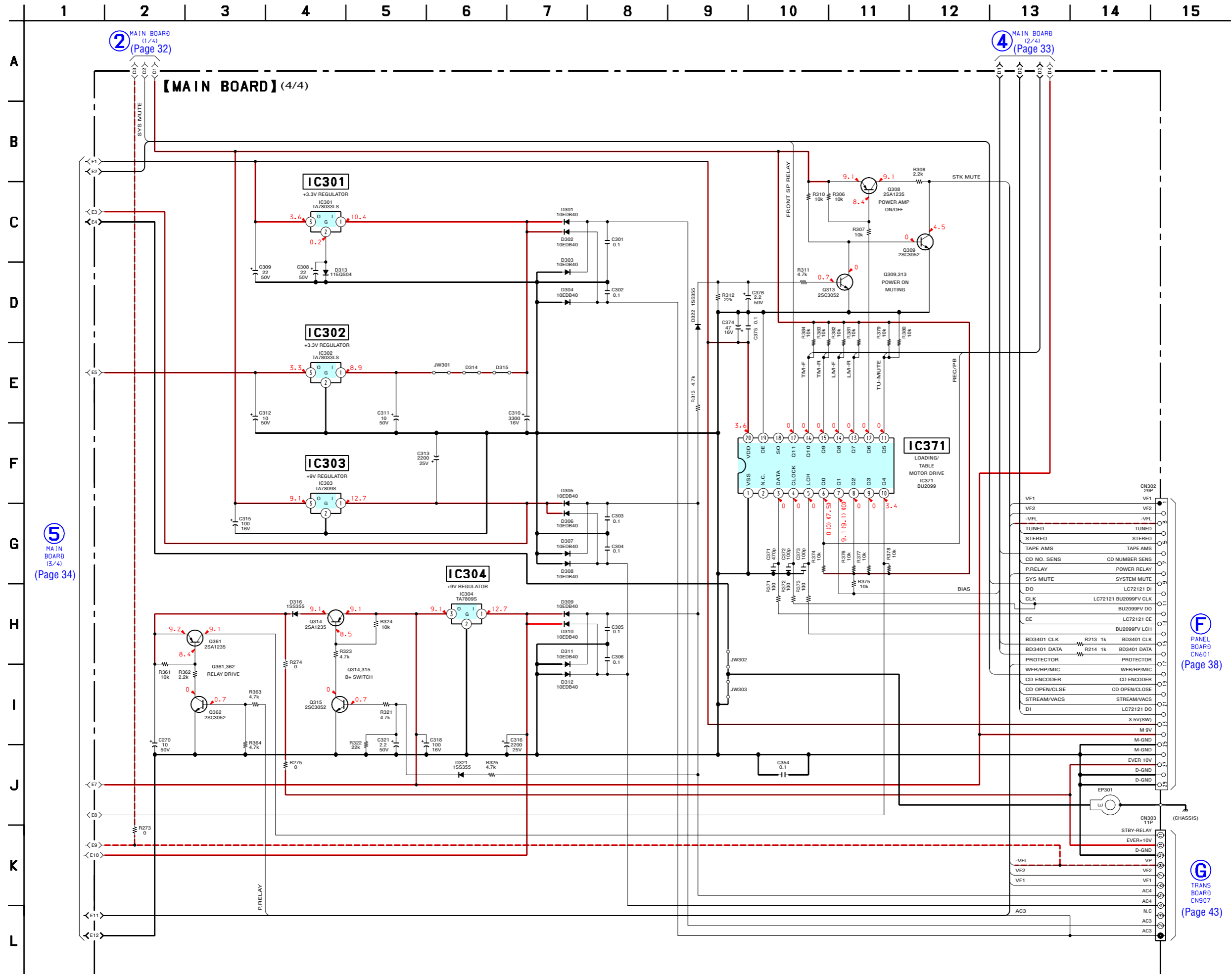



6-13. SCHEMATIC DIAGRAM – MAIN Section (3/4) –



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

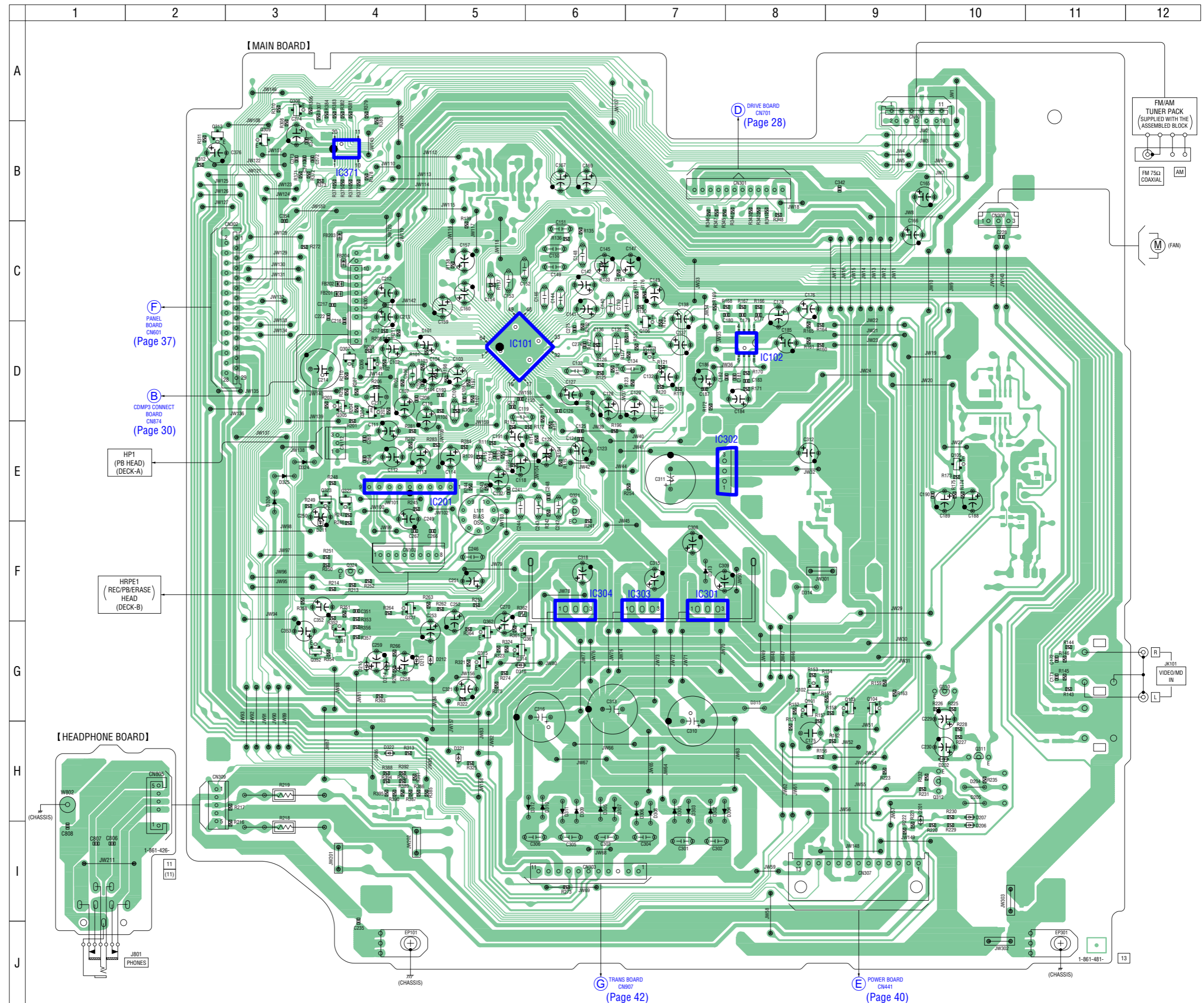
6-14. SCHEMATIC DIAGRAM – MAIN Section (4/4) – • See page 50 for IC Pin Function Description.




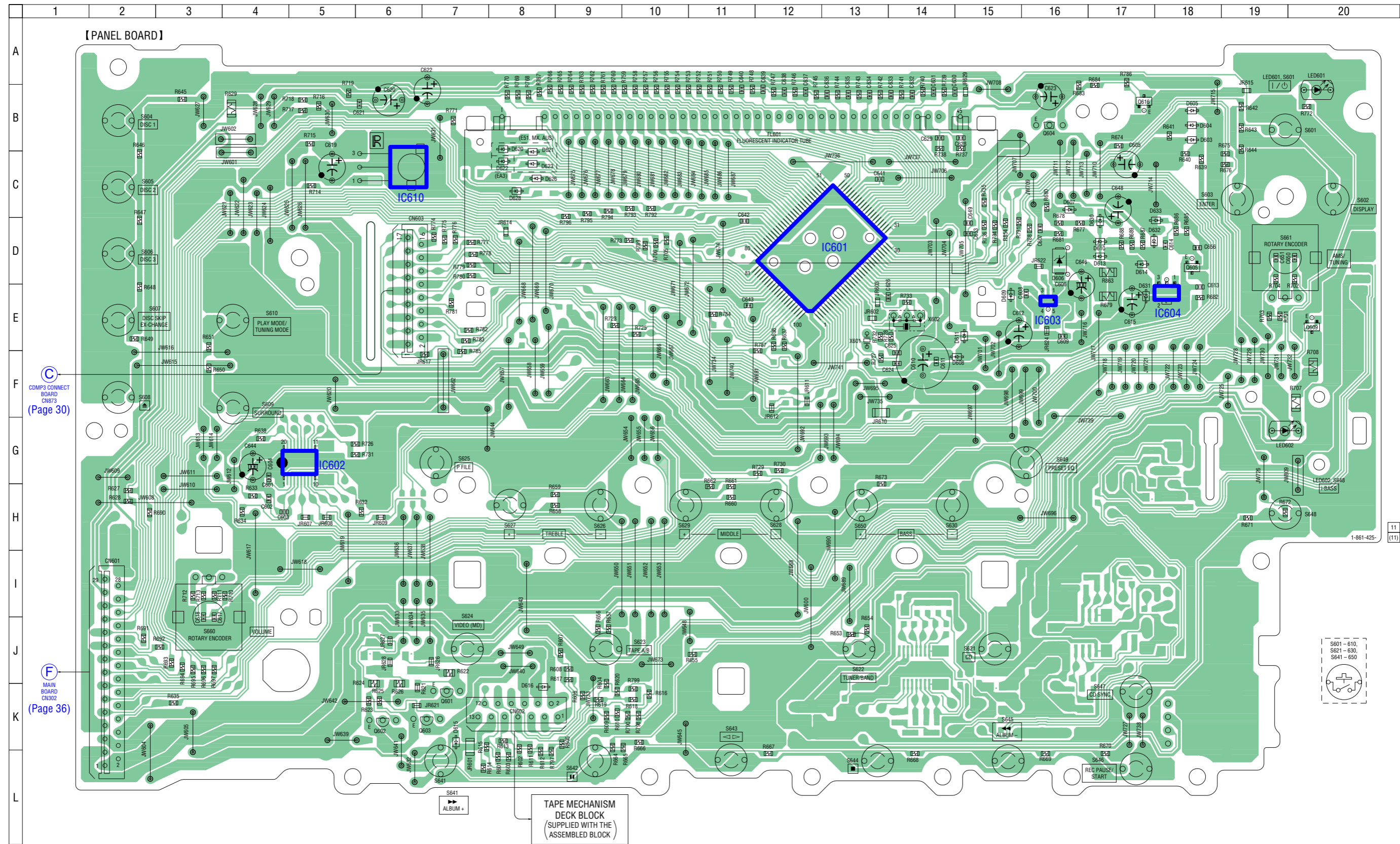
6-15. PRINTED WIRING BOARDS – MAIN Section – • See page 25 for Circuit Boards Location.  :Uses unleaded solder.

• Semiconductor Location

Ref. No.	Location
D201	H-9
D202	H-10
D206	I-10
D207	H-10
D211	F-3
D212	G-5
D213	G-4
D214	G-4
D215	G-4
D301	H-7
D302	H-7
D303	H-7
D304	H-7
D305	H-6
D306	H-7
D307	H-6
D308	H-7
D309	H-6
D310	H-6
D311	H-6
D312	H-6
D313	F-7
D316	G-5
D321	H-5
D322	H-4
D324	E-3
D325	E-3
D326	E-3
IC101	D-5
IC102	D-8
IC201	E-4
IC301	F-7
IC302	E-8
IC303	F-7
IC304	F-6
IC371	B-4
Q101	G-8
Q102	G-8
Q103	G-9
Q104	G-9
Q105	E-10
Q106	D-7
Q107	D-7
Q304	D-4
Q305	D-4
Q306	D-4
Q307	D-4
Q308	A-3
Q309	B-3
Q310	G-10
Q311	H-10
Q312	H-10
Q313	B-2
Q314	G-5
Q315	G-5
Q321	E-6
Q322	E-4
Q323	E-4
Q324	F-4
Q327	F-4
Q351	G-4
Q352	G-3
Q361	G-6
Q362	G-5



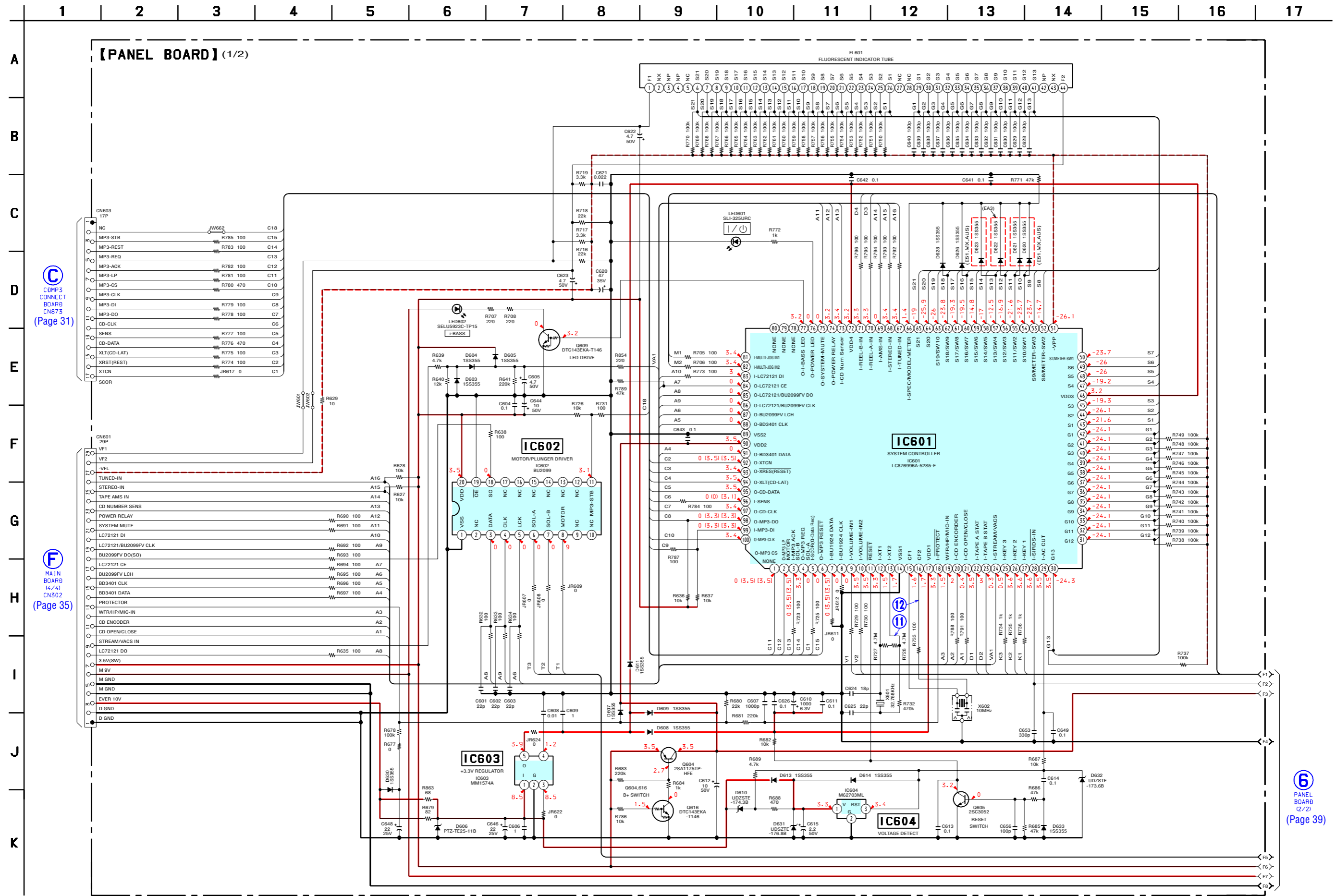
6-16. PRINTED WIRING BOARD – PANEL Section – • See page 25 for Circuit Boards Location.  :Uses unleaded solder.



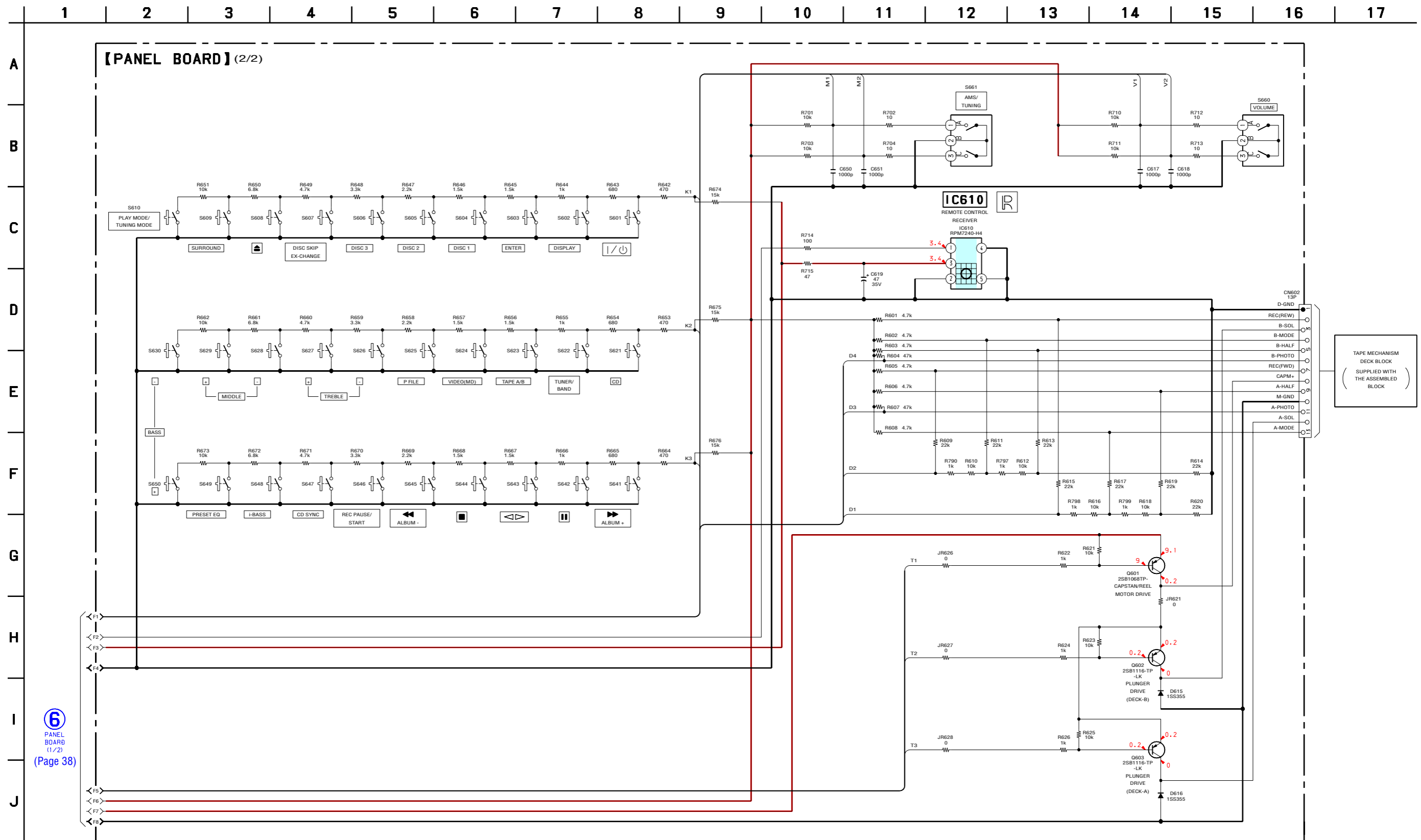
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D603	B-18	D613	D-17	D627	C-7	IC603	E-16	Q603	K-7
D604	B-18	D614	D-17	D628	C-8	IC604	E-18	Q604	B-16
D605	B-18	D615	K-7	D630	D-17	IC610	C-6	Q605	D-18
D606	D-16	D616	K-8	D631	E-17	LED601	B-20	Q609	E-20
D607	C-16	D620	B-8	D632	D-17	LED602	G-19	Q616	B-17
D608	F-15	D621	C-8	D633	D-18				
D609	E-15	D622	C-8						
D610	D-17	D623	C-8	IC601	D-13	Q601	K-7		
D611	E-15	D626	C-8	IC602	G-5	Q602	K-6		

6-17. SCHEMATIC DIAGRAM – PANEL Section (1/2) – • See page 44 for Waveforms. • See page 50 for IC Pin Function Description.



6-18. SCHEMATIC DIAGRAM – PANEL Section (2/2) –

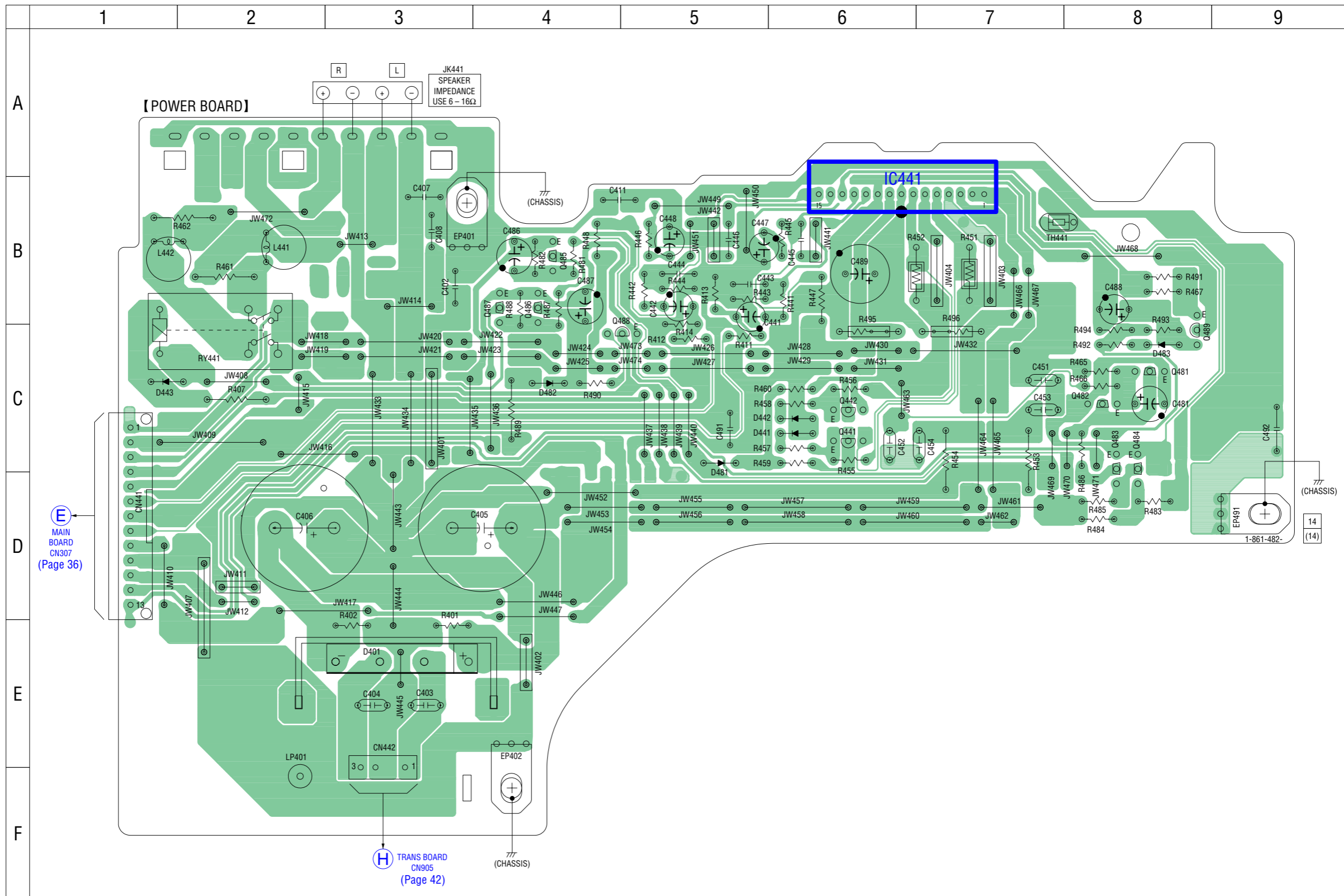


6
PANEL BOARD (1/2)
(Page 38)

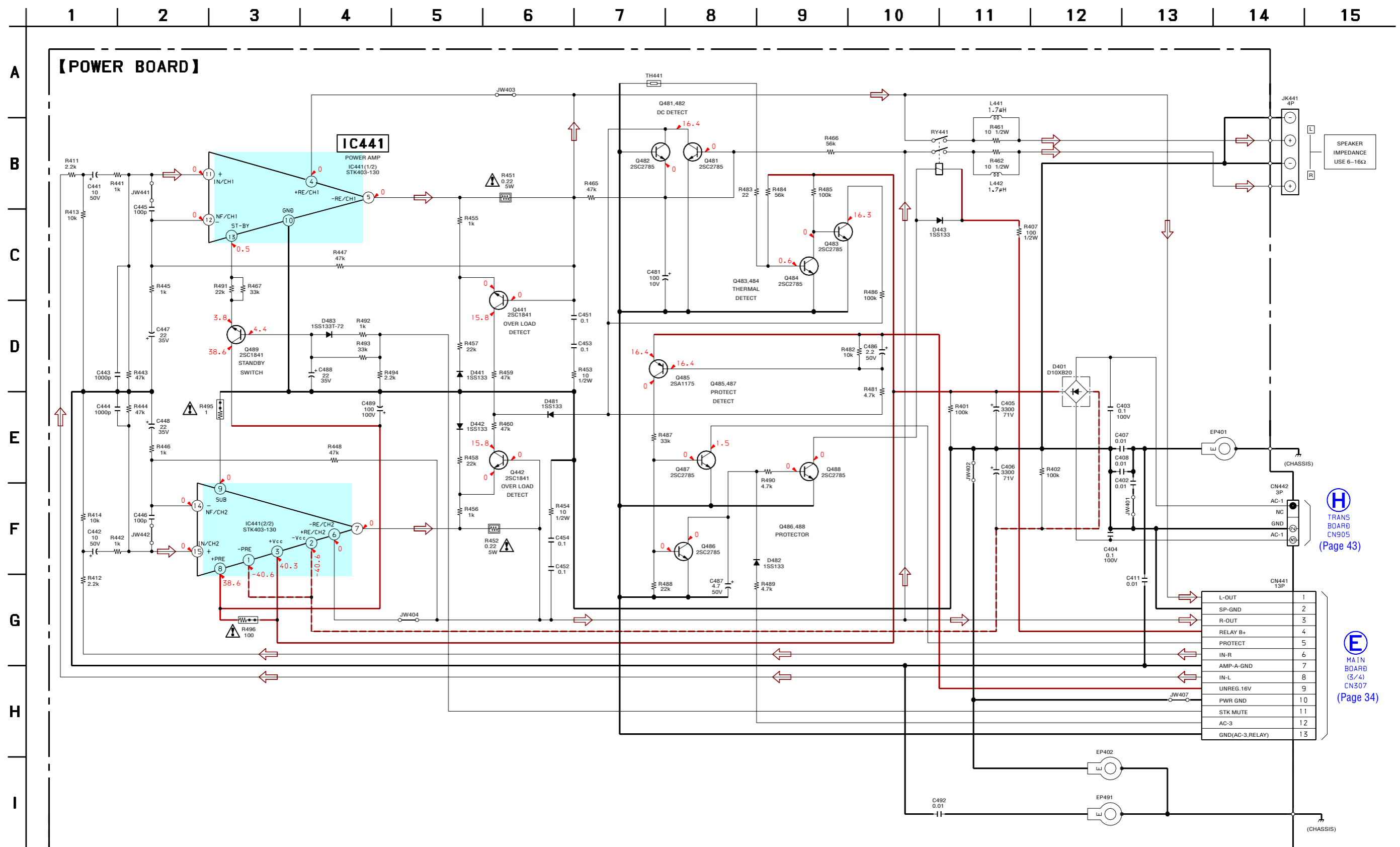
6-19. PRINTED WIRING BOARD – POWER AMP Section – • See page 25 for Circuit Boards Location.  :Uses unleaded solder.

• Semiconductor Location

Ref. No.	Location
D401	E-3
D441	C-6
D442	C-6
D443	C-1
D481	C-5
D482	C-4
D483	C-8
IC441	B-6
Q441	C-6
Q442	C-6
Q481	C-8
Q482	C-8
Q483	C-8
Q484	C-8
Q485	B-4
Q486	B-4
Q487	B-4
Q488	C-5
Q489	C-8




6-20. SCHEMATIC DIAGRAM – POWER AMP Section –

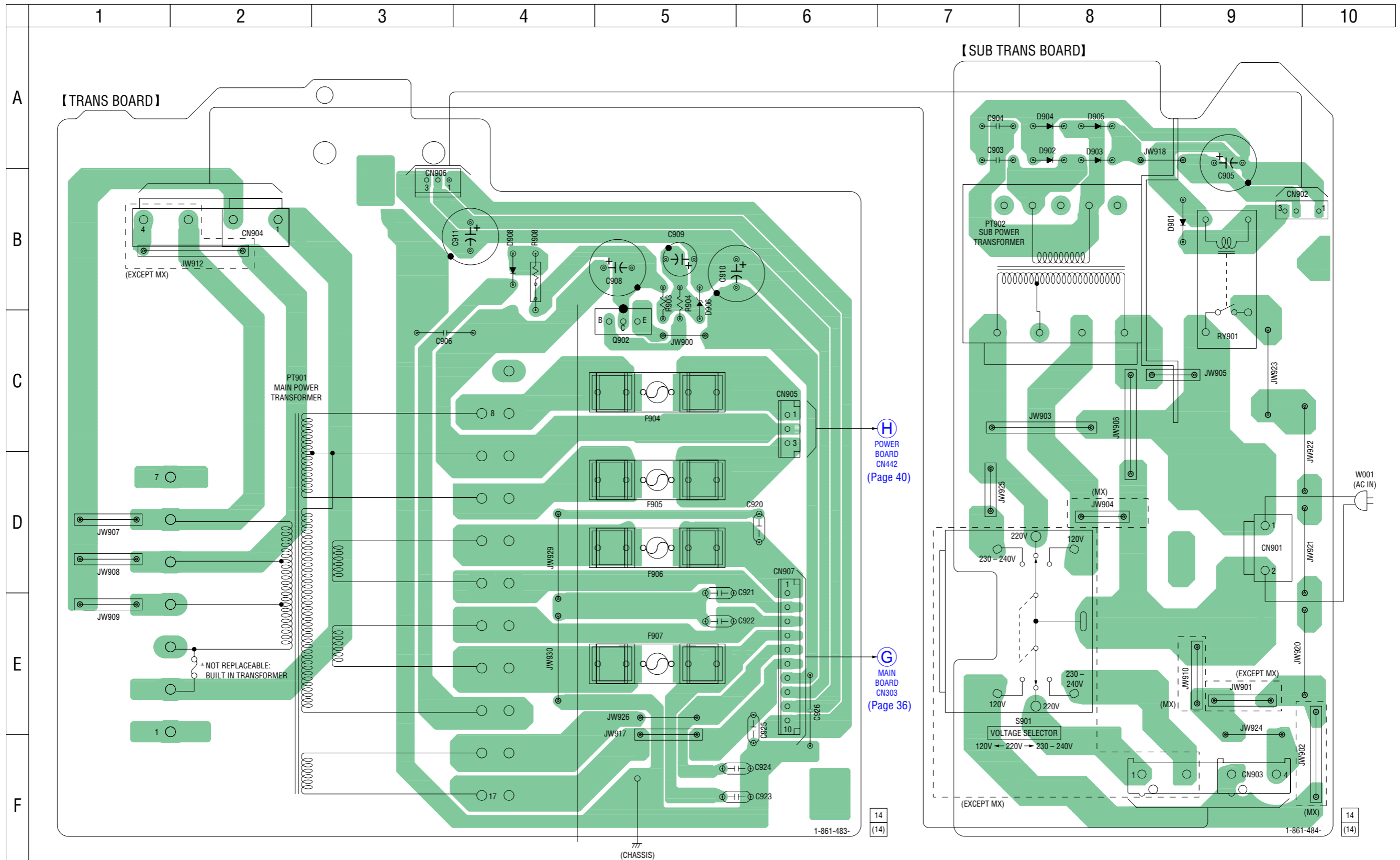


TRANS BOARD CN905 (Page 43)

MAIN BOARD (3/4) CN307 (Page 34)

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

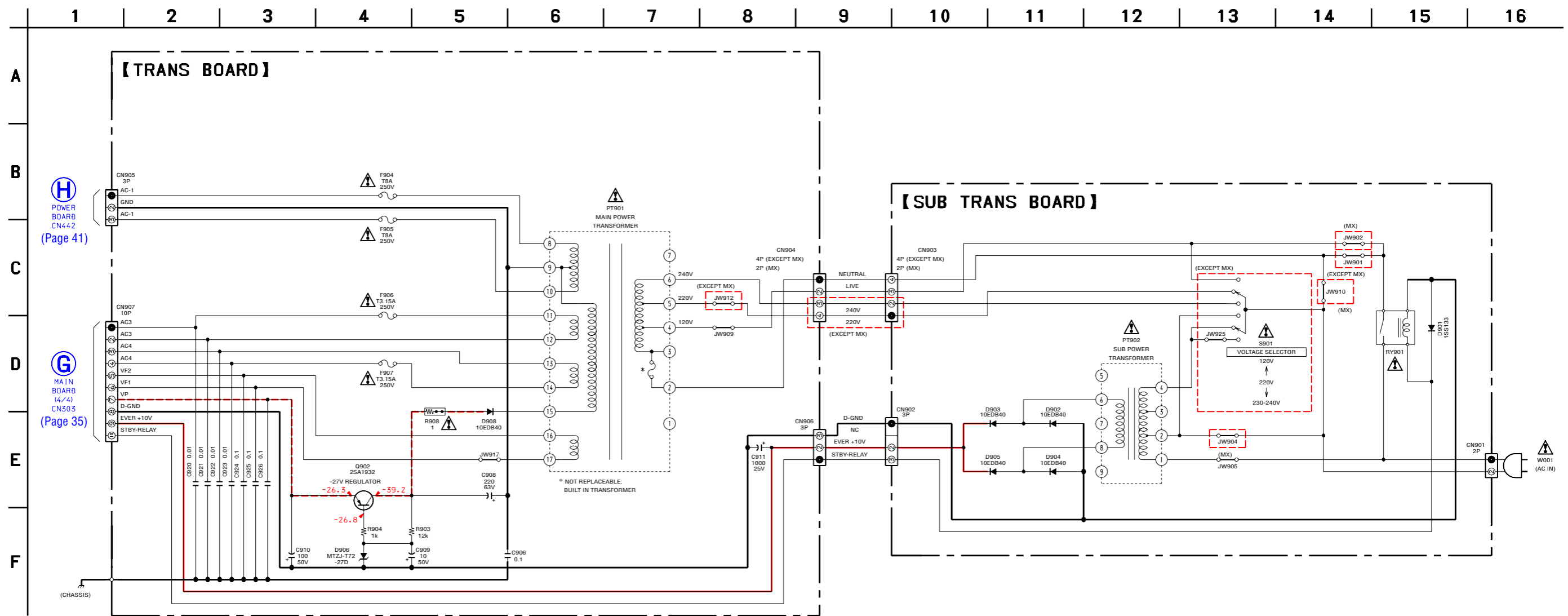
6-21. PRINTED WIRING BOARDS – TRANS Section – • See page 25 for Circuit Boards Location.  :Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
D901	B-9
D902	A-8
D903	A-8
D904	A-8
D905	A-8
D906	B-5
D908	B-4
Q902	C-5

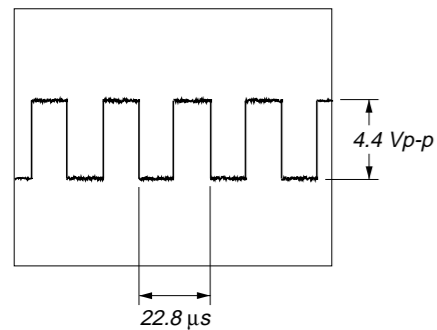
6-22. SCHEMATIC DIAGRAM –TRANS Section –



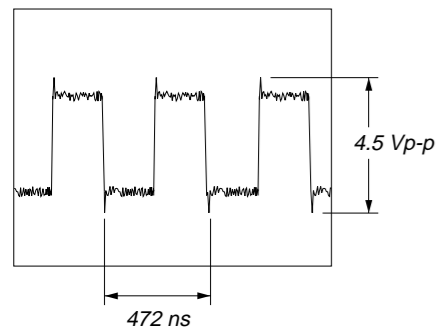
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

• Waveforms
– CD Board –

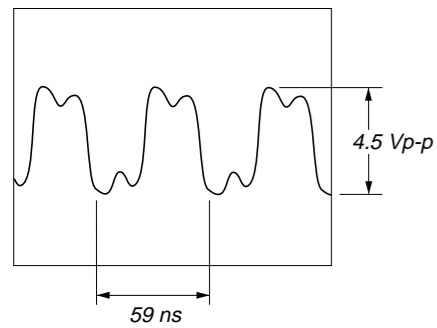
① IC101 ③ (LRCK)



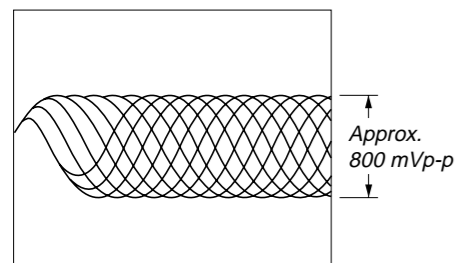
② IC101 ⑥ (BCK)



③ IC101 ⑦ (XTAO)

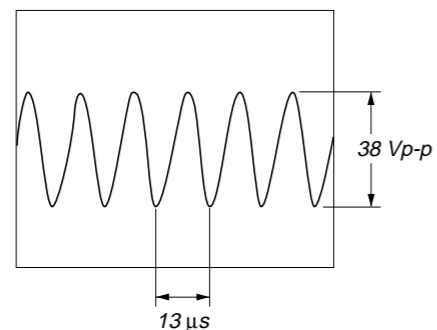


④ IC101 ④ (RFACO)



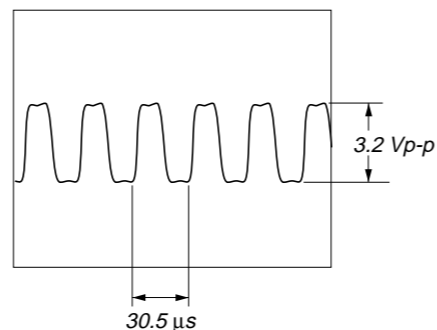
– MAIN Board –

⑤ L101 ⑤ (REC Mode)

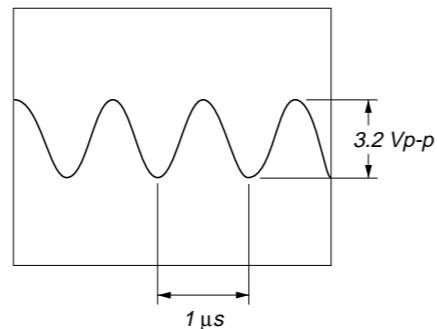


– PANEL Board –

⑪ IC601 ⑬ (I-XT2)

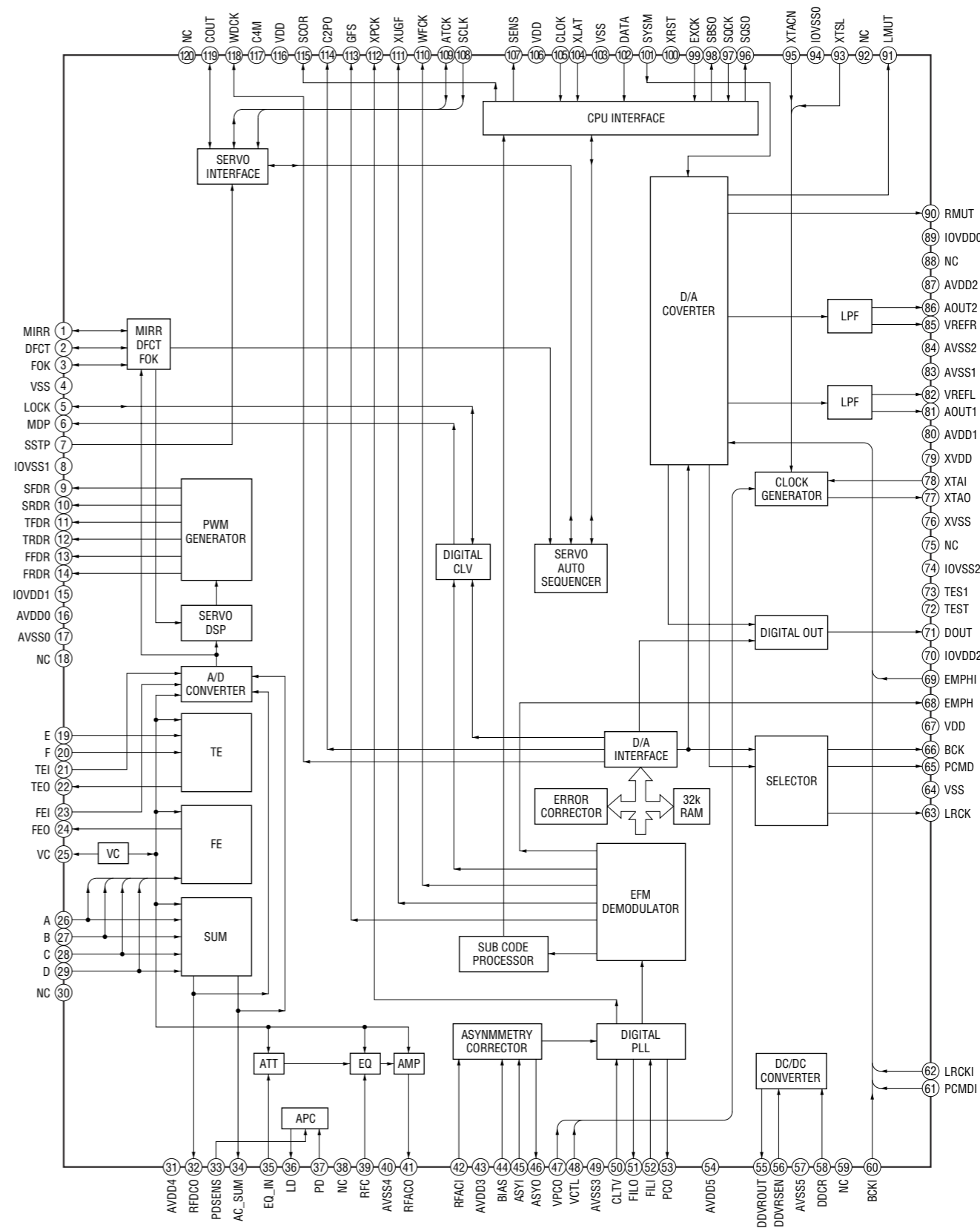


⑫ IC601 ⑩ (CF2)

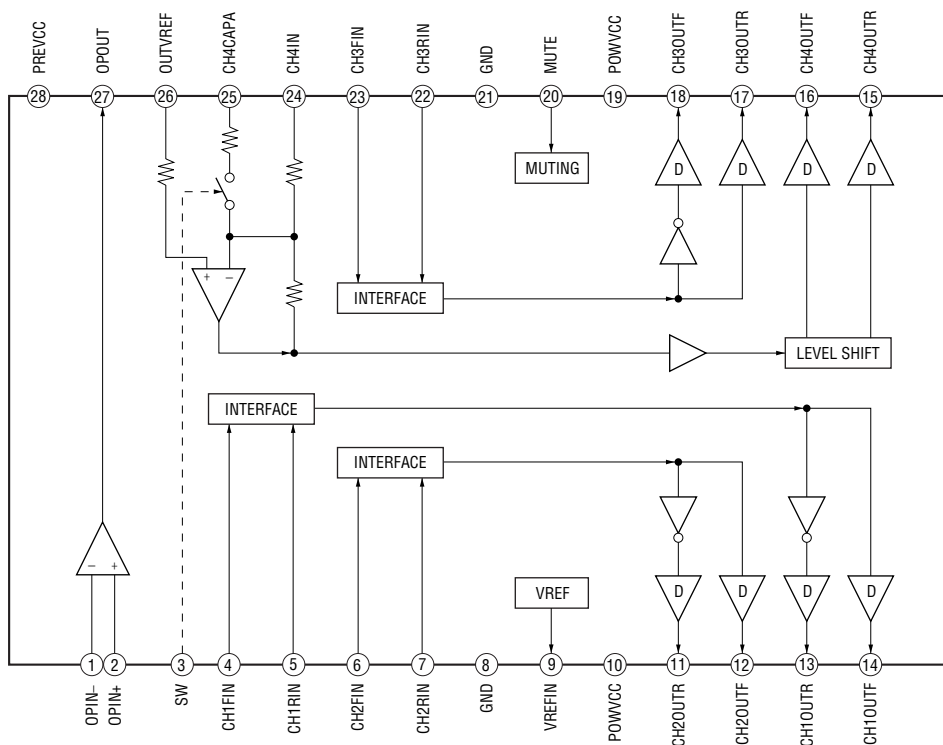


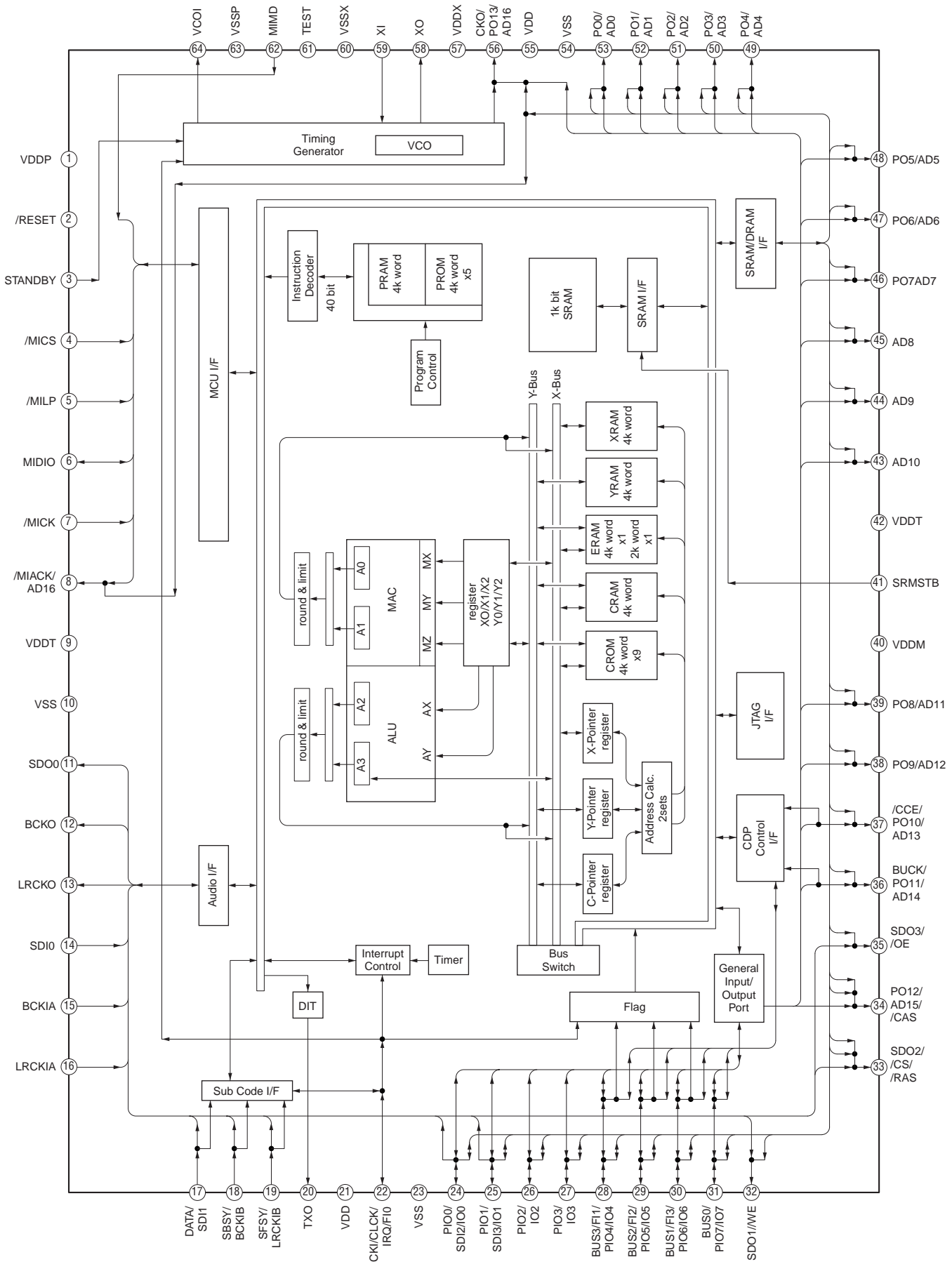
• IC Block Diagrams
– CD Board –

IC101 CXD3059AR

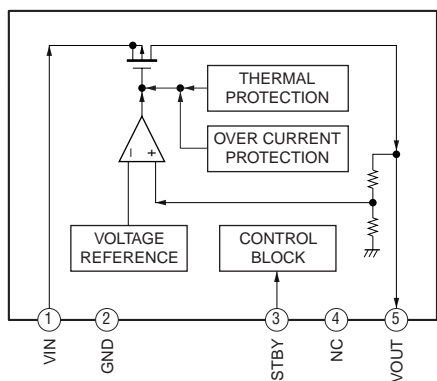


IC251 BA5947FM



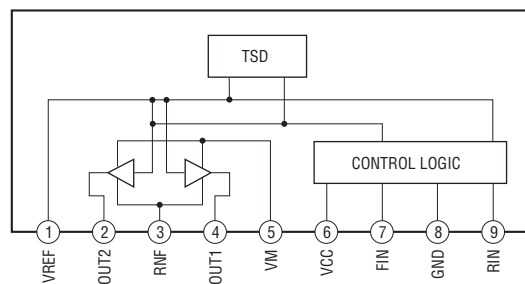


IC303 BH15FB1WG



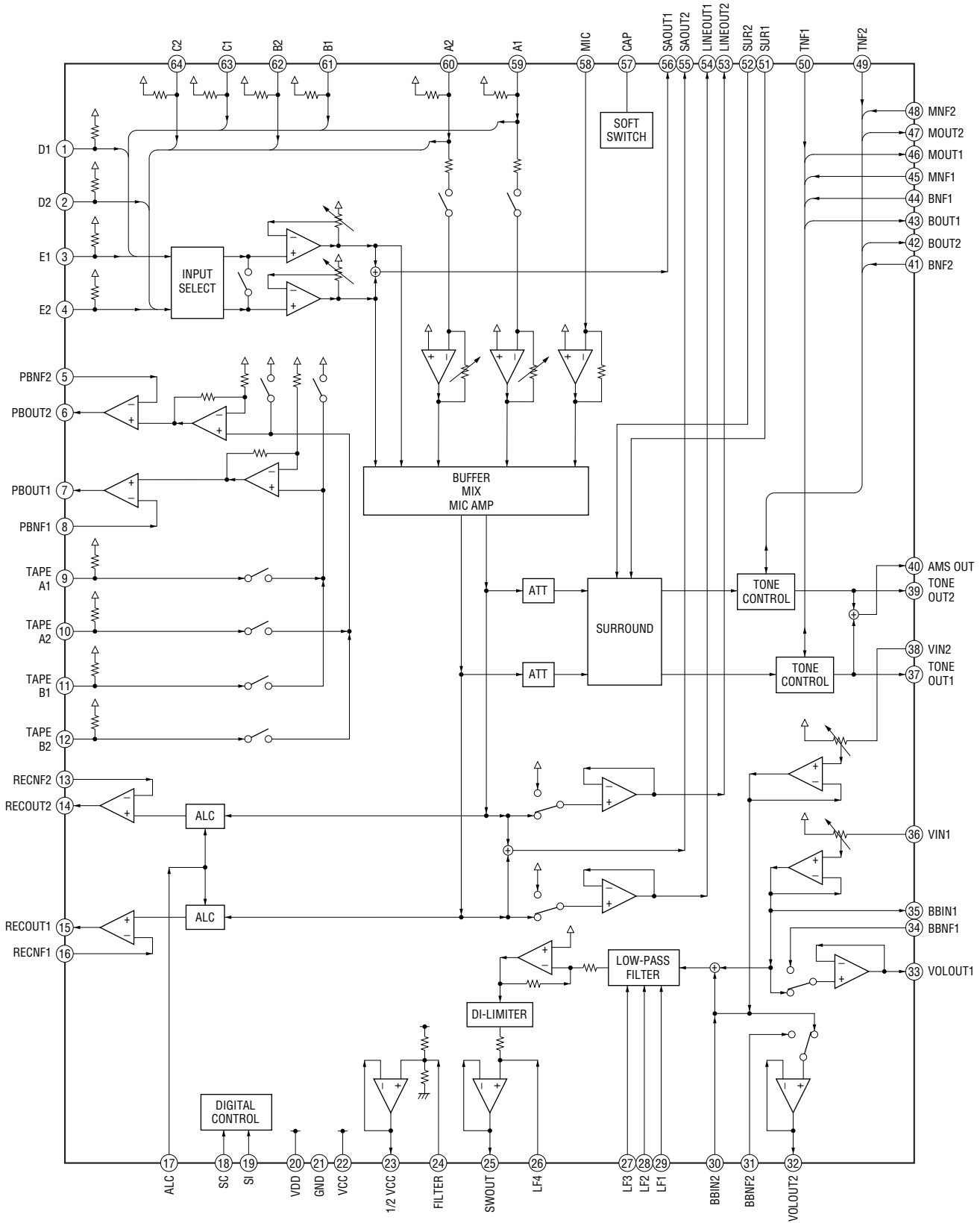
- DRIVER Board -

IC701, 712 BA6956AN

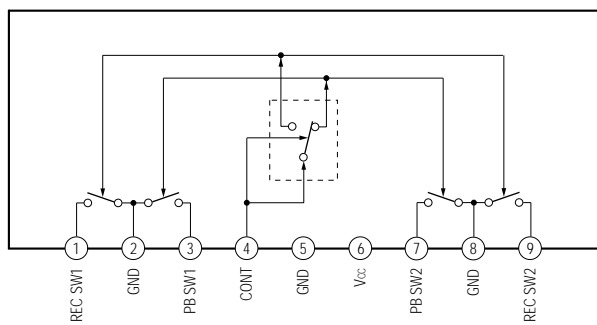


- MAIN Board -

IC101 BD3401KS2



IC201 BA3126N



• IC Pin Function Description

MAIN BOARD IC371 BU2099FV (LOADING/TABLE MOTOR DRIVER)

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	N.C.	—	Not used
3	DATA	I	Serial data input from the motor/plunger driver
4	CLOCK	I	Serial data transfer clock signal input from the system controller
5	LCH	I	Latch pulse signal input from the system controller
6	Q0	O	Recording/playback selection signal output terminal
7	BIAS	O	Recording bias control signal output terminal
8, 9	Q2, Q3	O	Not used
10	Q4	O	CD muting on/off control signal output terminal
11	Q5	O	Tuner muting on/off control signal output to the FM/AM tuner pack
12	Q6	O	Power amplifier on/off control signal output terminal
13	Q7	O	Loading motor drive signal output terminal
14	Q8	O	Loading motor drive signal output terminal
15	Q9	O	Table motor drive signal output terminal
16	Q10	O	Table motor drive signal output terminal
17	Q11	O	Front speaker on/off relay drive control signal output terminal
18	SO	O	Serial data output terminal Not used
19	OE	—	Not used
20	VDD	—	Power supply terminal (+3.3V)

PANEL BOARD IC601 LC876996A-52S5-E (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	O-MP3 CS	O	Chip select signal output to the MP3 decoder
2	O-MP3 LP	O	Latch pulse signal output to the MP3 decoder
3	I-MP3 ACK	I	Acknowledge signal input from the MP3 decoder
4	I-MP3 REQ	I	Request signal input from the MP3 decoder
5	I-SCOR (Q-DATA REQ)	I	Subcode Q data request signal input from the CD DSP
6	$\overline{\text{O-MP3 RESET}}$	O	Reset signal output to the MP3 decoder “L”: reset
7	I-BU1924 DATA	I	RDS serial data input from the FM/AM tuner pack Not used
8	I-BU1924 CLK	I	RDS serial data transfer clock signal input from the FM/AM tuner pack Not used
9	I-VOLUME-IN1	I	Jog dial pulse input terminal (VOLUME)
10	I-VOLUME-IN2	I	Jog dial pulse input terminal (VOLUME)
11	$\overline{\text{RESET}}$	I	System reset signal input terminal “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
12	I-XT1	I	System clock input terminal (32.768 kHz)
13	O-XT2	O	System clock output terminal (32.768 kHz)
14	VSS1	—	Ground terminal
15	CF1	I	System clock input terminal (10 MHz)
16	CF2	O	System clock output terminal (10 MHz)
17	VDD1	—	Power supply terminal (+3.3V)
18	$\overline{\text{I-PROTECT}}$	I	Protect signal input from the amplifier circuit
19	WFR/HP/MIC-IN	I	Headphone detection signal input from the electrical volume
20	I-CD ENCODER	I	Disc tray address detection signal input terminal
21	I-CD OPEN/CLOSE	I	Disc tray open/close detection signal input terminal
22	I-TAPE A STAT	I	Deck-A cassette detection signal, deck-A mode detection signal and recording (reverse direction) detection signal input terminal (A/D input)
23	I-TAPE B STAT	I	Deck-B cassette detection signal, deck-B mode detection signal and recording (forward direction) detection signal input terminal (A/D input)
24	I-STREAM/VACS	I	VACS/stream signal input terminal (A/D input)
25 to 27	$\overline{\text{I-KEY3}}$ to $\overline{\text{I-KEY1}}$	I	Front panel key input terminal (A/D input)
28	$\overline{\text{I-SIRCS IN}}$	I	Remote control signal input terminal
29	I-AC CUT	I	AC detection signal input terminal “L”: AC off
30 to 42	G13 to G1	O	Grid drive signal output to the fluorescent indicator tube
43 to 45	S1 to S3	O	Segment drive signal output to the fluorescent indicator tube
46	VDD3	—	Power supply terminal (+3.3V)
47 to 50	S4 to S7	O	Segment drive signal output to the fluorescent indicator tube
51	-VPP	—	Power supply terminal (-27V)
52 to 65	S8 to S21	O	Segment drive signal output to the fluorescent indicator tube
66	I-SPEC/ MODEL/METER	I	Destination setting signal, model setting signal and VACS/stream gain control signal input terminal
67	I-TUNED-IN	I	Tuning detection signal input from the FM/AM tuner pack “L”: tuned
68	I-STEREO-IN	I	FM stereo detection signal input from the FM/AM tuner pack “L”: stereo
69	I-AMS-IN	I	Auto music sensor detection signal input from the electrical volume “L”: music is present, “H”: music is not present
70	I-REEL-A-IN	I	Deck-A tape reel rotating detection signal input terminal
71	I-REEL-B-IN	I	Deck-B tape reel rotating detection signal input terminal

Pin No.	Pin Name	I/O	Description
72	VDD4	—	Power supply terminal (+3.3V)
73	I-CD NUM SENSOR	I	CD table address detection signal input terminal
74	O-POWER RELAY	O	Power on/off control signal output terminal “H”: power on
75	O-SYSTEM-MUTE	O	System muting on/off control signal output terminal “H”: muting on
76	O-POWER LED	O	LED drive signal output of the I/⓪ (power) indicator “H”: LED on
77	O-I-BASS LED	O	LED drive signal output of the i-BASS indicator “H”: LED on
78 to 80	NONE	O	Not used
81	I-MULTI-JOG IN1	I	Jog dial pulse input terminal (MULTI JOG)
82	I-MULTI-JOG IN2	I	Jog dial pulse input terminal (MULTI JOG)
83	I-LC72121 DI	I	Serial data input from the FM/AM tuner pack
84	O-LC72121 CE	O	Chip enable signal output to the FM/AM tuner pack
85	O-LC72121/ BU2099FV DO	O	Serial data output to the FM/AM tuner pack and motor/plunger drive
86	O-LC72121/ BU2099FV CLK	O	Serial data transfer clock signal output to the FM/AM tuner pack, loading/table motor driver and motor/plunger driver
87	O-BU2099FV LCH	O	Latch pulse signal output to the loading/table motor driver and motor/plunger driver
88	O-BU3401 CLK	O	Serial data transfer clock signal output to the electrical volume
89	VSS2	—	Ground terminal
90	VDD2	—	Power supply terminal (+3.3V)
91	O-BU3401 DATA	O	Serial data output to the electrical volume
92	O-XTCN	O	Oscillator control signal output to the CD DSP
93	O-X-RES (RESET)	O	Reset signal output to the CD DSP and motor/coil driver “L”: reset
94	O-XLT (CD-LAT)	O	Latch pulse signal output to the CD DSP
95	O-CD-DATA	O	Serial data output to the CD DSP
96	I-SENS	I	Serial data input from the CD DSP
97	O-CD-CLK	O	Serial data transfer clock signal output to the CD DSP
98	O-MP3-DO	O	Serial data output to the MP3 decoder
99	I-MP3-DI	I	Serial data input from the MP3 decoder
100	O-MP3-CLK	O	Serial data transfer clock signal output to the MP3 decoder

PANEL BOARD IC602 BU2099FV (MOTOR/PLUNGER DRIVER)

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	NC	—	Not used
3	DATA	I	Serial data input from the system controller
4	CLOCK	I	Serial data transfer clock signal input from the system controller
5	LCH	I	Latch pulse signal input from the system controller
6	SOL-A	O	Deck-A side trigger plunger drive signal output terminal
7	SOL-B	O	Deck-B side trigger plunger drive signal output terminal
8	MOTOR	O	Capstan/reel motor drive signal output terminal
9, 10	NC	—	Not used
11	MP3-STB	O	Standby signal output to the MP3 decoder
12 to 17	NC	—	Not used
18	SO	O	Serial data output to the loading/table motor driver
19	$\overline{\text{OE}}$	—	Not used
20	VDD	—	Power supply terminal (+3.3V)

**SECTION 7
EXPLODED VIEWS**

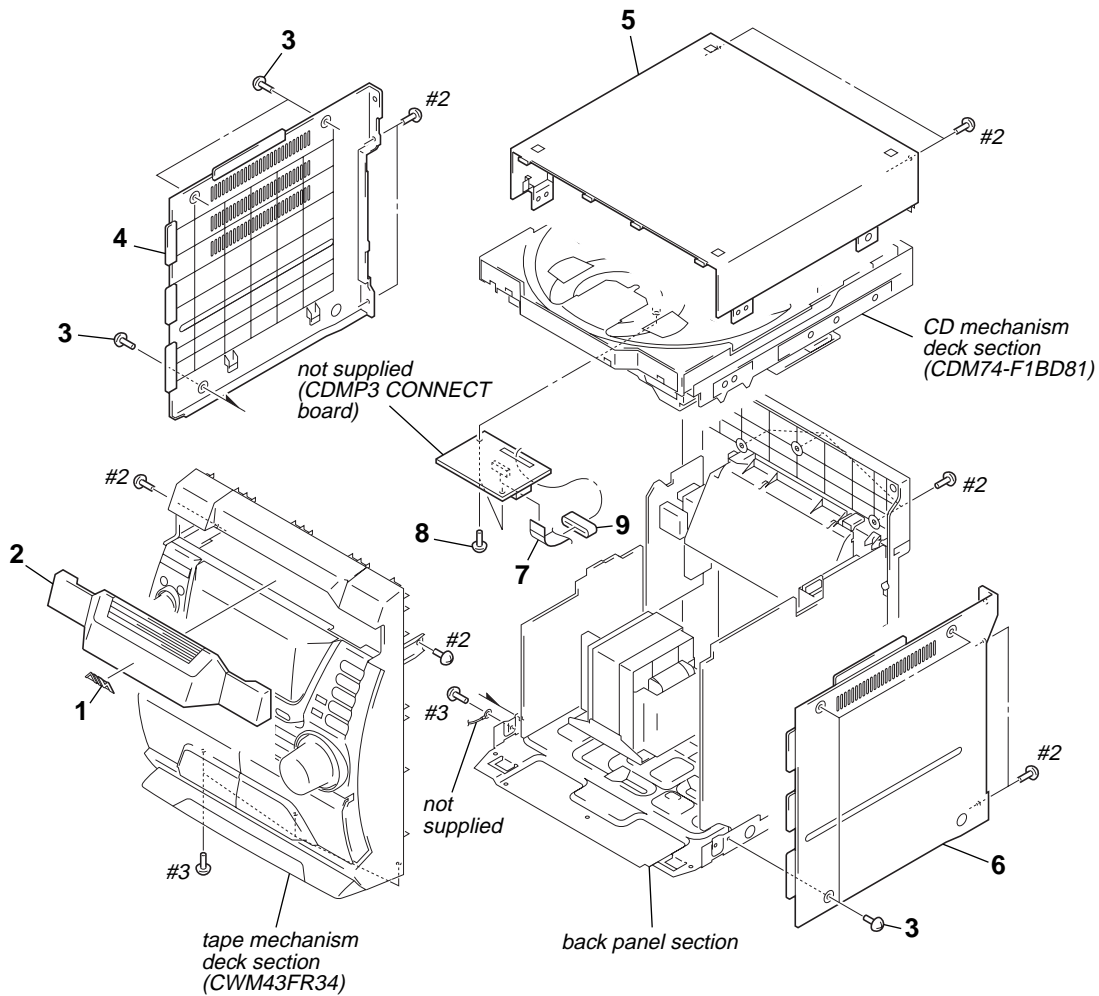
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)
 ↑ ↑
 Parts Color Cabinet's Color

- 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.
- Abbreviation
AUS : Australian model SP : Singapore model
E51 : Chilean and Peruvian models TW : Taiwan model
MX : Mexican model

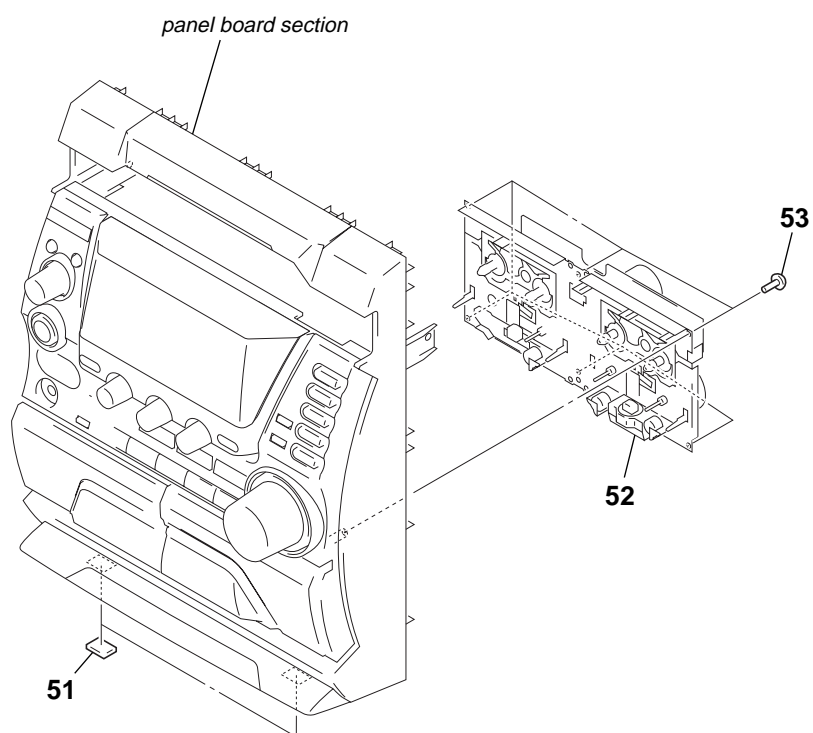
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

7-1. CASE SECTION



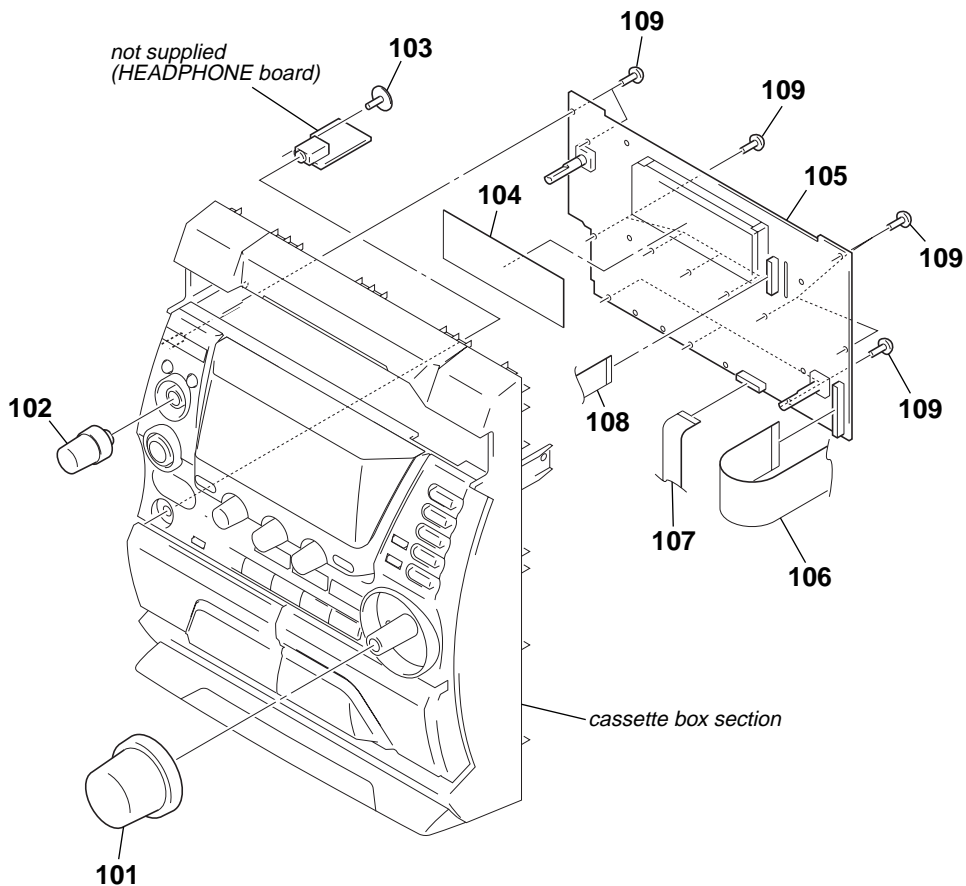
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-245-158-01	EMBLEM		7	1-775-251-11	WIRE (FLAT TYPE) (27 CORE)	
2	4-252-696-01	PANEL, TRAY		8	4-951-620-01	SCREW (2.6X8), +BVTP	
3	3-363-099-32	SCREW (CASE 3 TP2)		9	1-469-854-11	CORE, FERRITE	
4	4-245-183-91	CASE (SIDE-L)		#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
5	4-244-849-91	CASE (TOP)		#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
6	4-245-184-91	CASE (SIDE-R)					

**7-2. TAPE MECHANISM DECK SECTION
(CWM43FR34)**



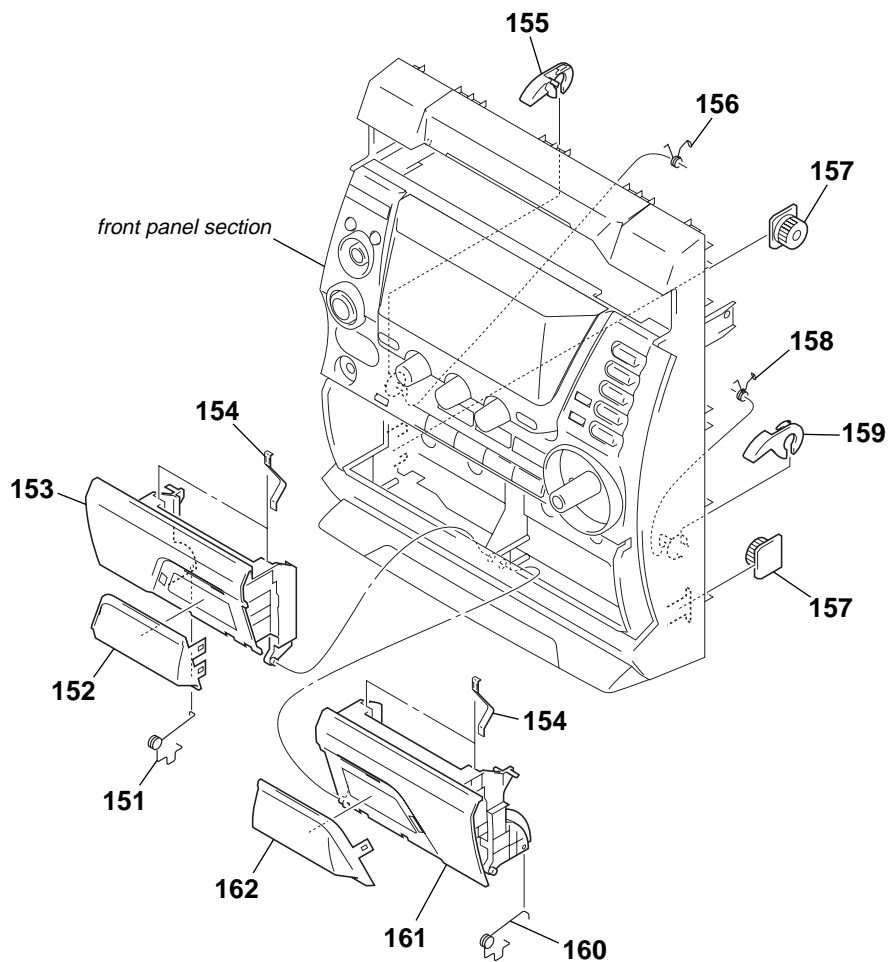
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
51	4-225-252-01	CUSHION (FOOT)		53	4-951-620-01	SCREW (2.6X8), +BVTP	
52	1-796-486-71	DECK, MECHANICAL (CWM43FR34)					

7-3. PANEL BOARD SECTION



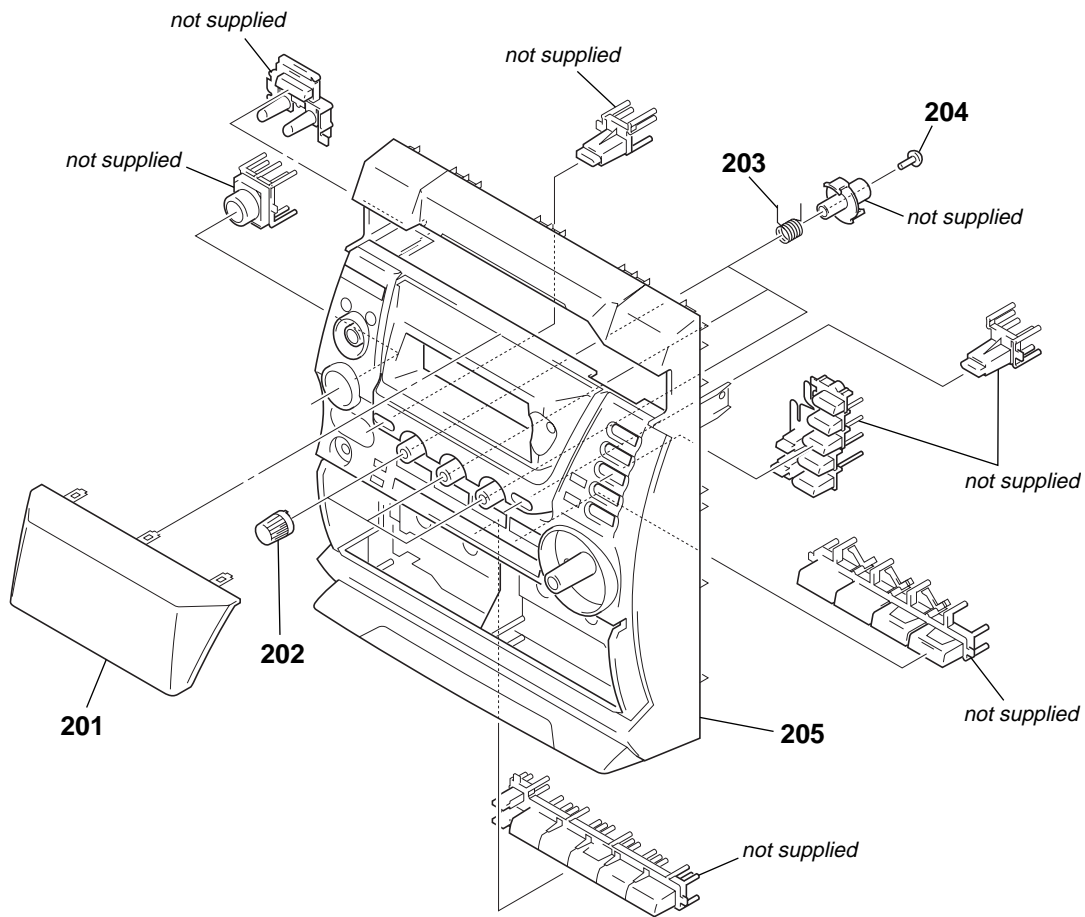
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	4-252-707-01	KNOB (VOL), PLATING ROTARY		105	A-4750-705-A	PANEL BOARD, COMPLETE (E, SP, TW)	
102	4-252-709-01	KNOB (AMS), PLATING ROTARY		105	A-4752-938-A	PANEL BOARD, COMPLETE (AUS)	
103	3-229-336-01	SCREW, +BVWH TAPPING (EXCEPT E51)		106	1-773-288-11	WIRE (FLAT TYPE) (29 CORE)	
103	3-229-336-11	SCREW, +BVWH TAPPING (E51)		107	1-827-145-11	WIRE (FLAT TYPE) (13 CORE)	
104	4-252-718-01	SHEET, FL		108	1-773-048-11	WIRE (FLAT TYPE) (17 CORE)	
105	A-4750-653-A	PANEL BOARD, COMPLETE (E51, MX)		109	4-951-620-01	SCREW (2.6X8), +BVTP	

7-4. CASSETTE BOX SECTION



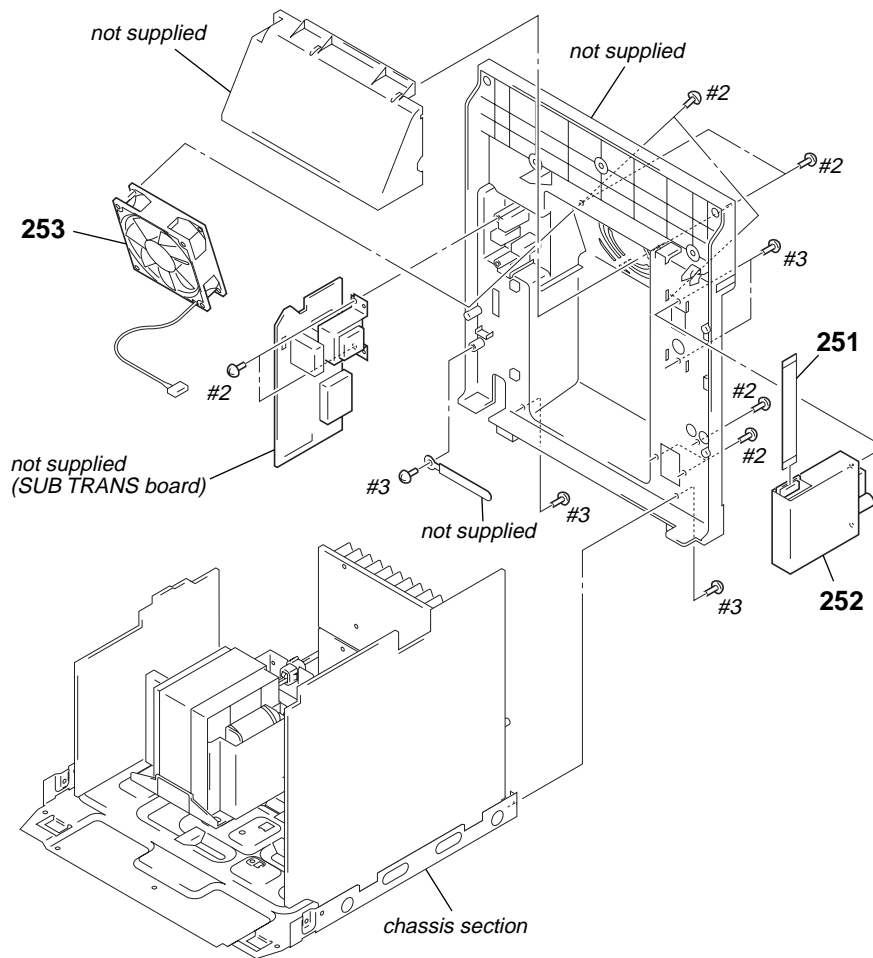
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-252-715-01	SPRING (BOX CASS L), TORSION		157	4-224-104-41	DAMPER	
152	4-252-698-01	WINDOW (L), CASSETTE		158	4-231-841-01	SPRING (HEART CAM-B)	
153	4-252-695-01	BOX (L), CASSETTE		159	4-231-825-01	CAM (B), HEART	
154	4-238-631-01	TAPE SPRING		160	4-252-716-01	SPRING (BOX CASS R), TORSION	
155	4-231-824-01	CAM (A), HEART		161	4-252-694-01	BOX (R), CASSETTE	
156	4-231-836-01	SPRING (HEART CAM-A)		162	4-252-699-01	WINDOW (R), CASSETTE	

7-5. FRONT PANEL SECTION



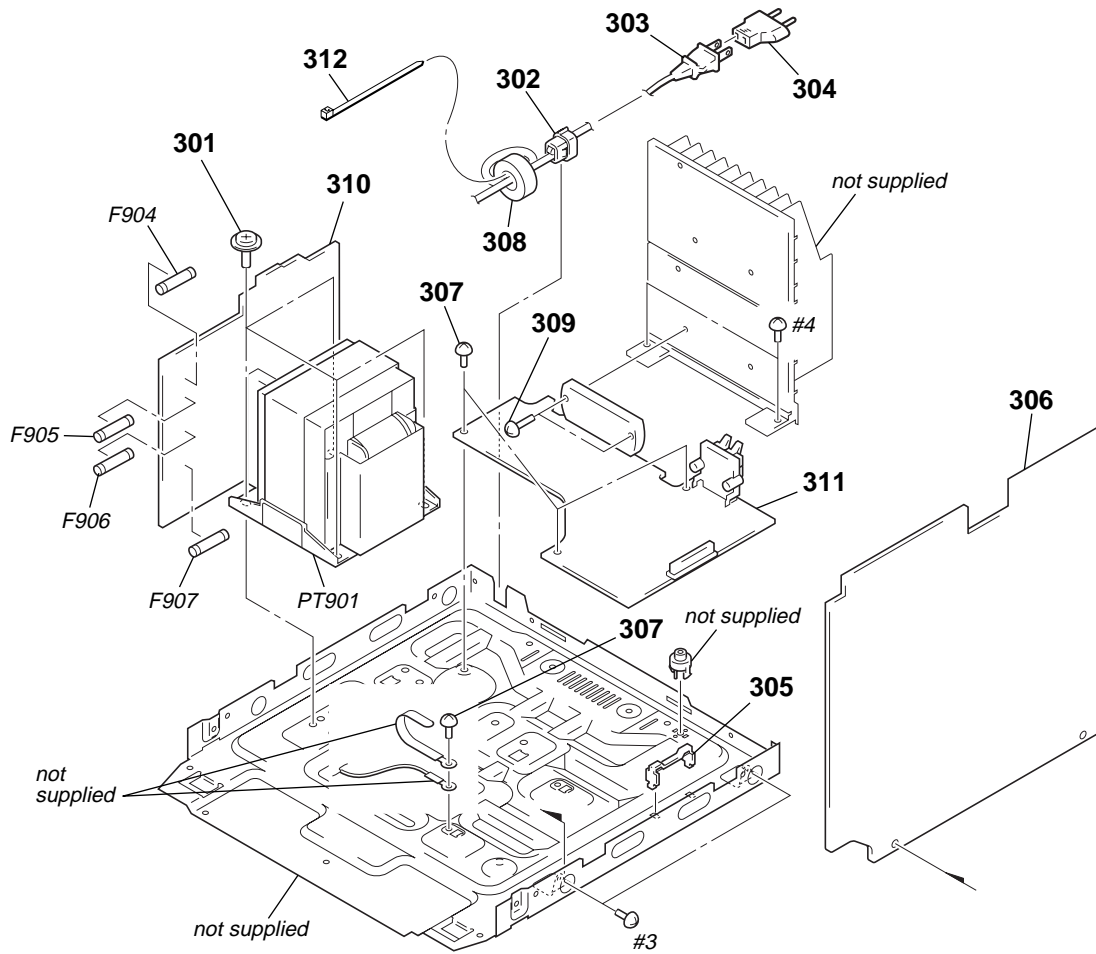
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	4-252-697-01	WINDOW, DISPLAY (E51, MX)		203	4-252-717-01	SPRING (BASS), TORSION	
201	4-252-697-41	WINDOW, DISPLAY (EXCEPT E51, MX)		204	4-218-253-31	+BTPP M2.6	
202	4-252-710-01	KNOB (BASS), PLATING ROTARY		205	4-252-693-01	PANEL, FRONT	

7-6. BACK PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	1-769-940-11	WIRE (FLAT TYPE) (11 CORE)		#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
252	1-693-615-11	TUNER (FM/AM)		#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
253	1-763-117-13	FAN, DC					

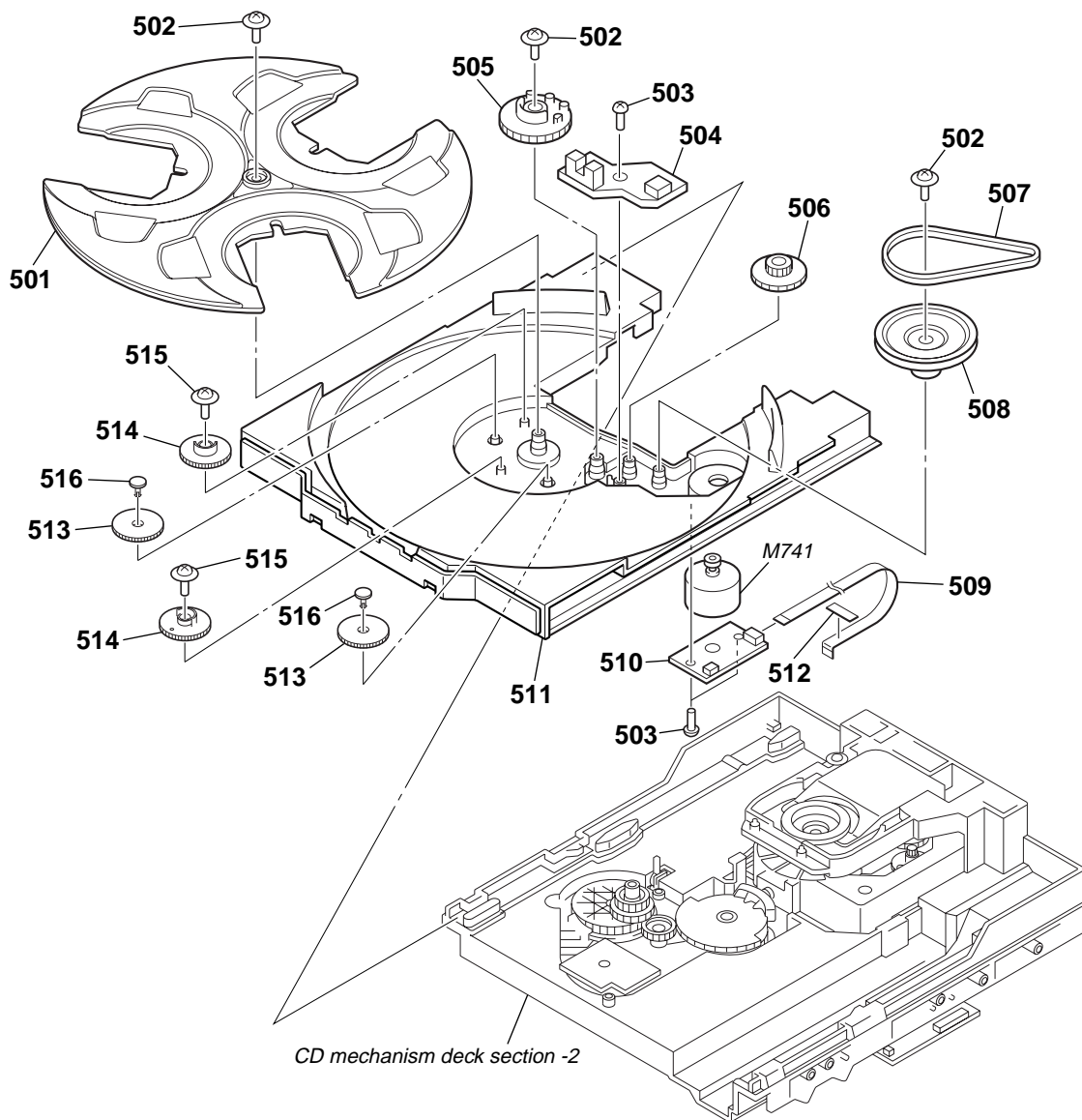
7-7. CHASSIS SECTION



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

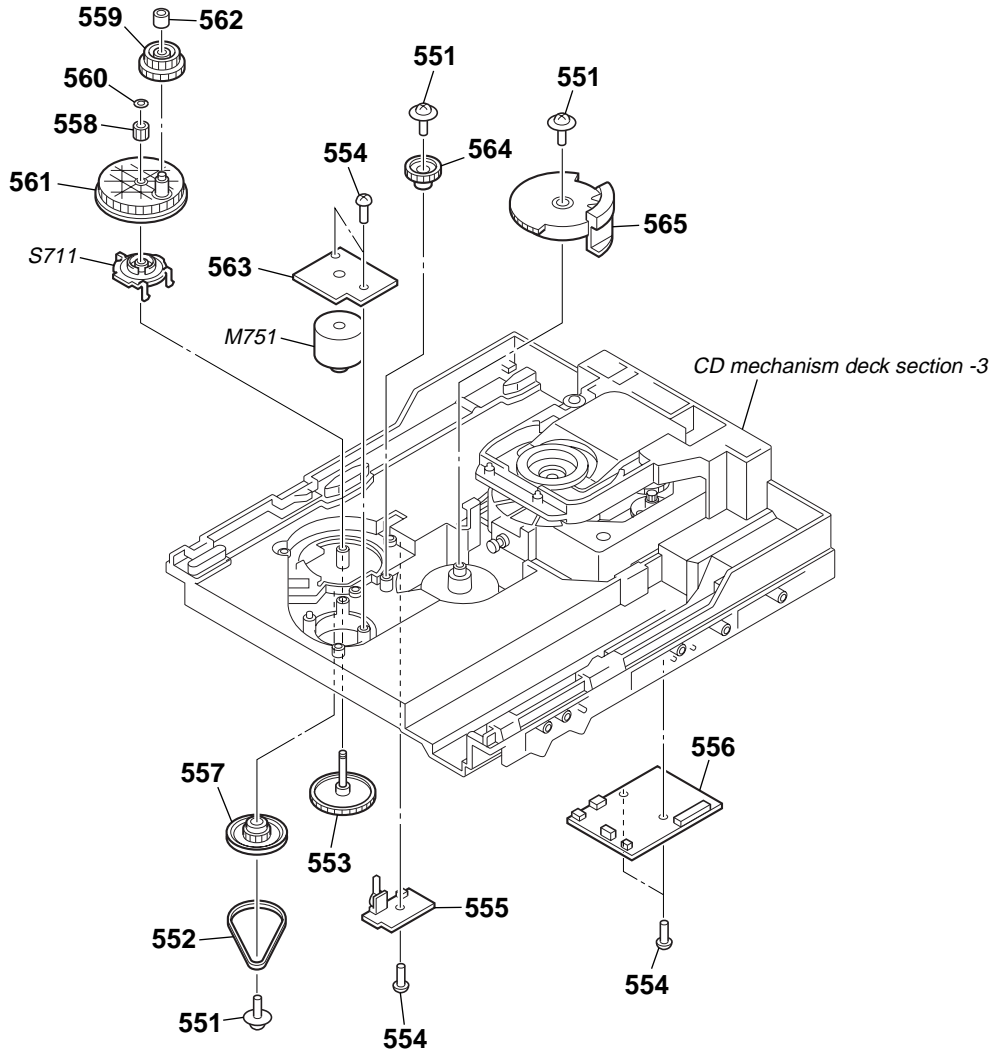
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	4-900-386-01	SCREW		309	3-905-609-41	SCREW (TRANSISTOR)	
302	3-703-244-00	BUSHING (2104), CORD (EXCEPT MX)		310	A-4750-672-A	TRANS BOARD, COMPLETE (EXCEPT MX)	
* 302	3-703-571-12	BUSHING (S) (4516), CORD (MX)		310	A-4752-926-A	TRANS BOARD, COMPLETE (MX)	
Δ 303	1-696-848-12	CORD, POWER (AUS)		311	A-4750-674-A	POWER BOARD, COMPLETE (E51, TW, AUS)	
Δ 303	1-777-071-83	CORD, POWER (E51, SP)		311	A-4750-710-A	POWER BOARD, COMPLETE (E, SP)	
Δ 303	1-827-226-11	CORD, POWER (E, MX)		312	4-059-585-01	TIE, CABLE	
Δ 303	1-827-597-31	CORD, POWER (TW)		Δ F904	1-576-655-12	FUSE, GLASS TUBE (DIA. 5) (8A/250V)	
304	1-569-007-12	ADAPTOR, CONVERSION 2P (E)		Δ F905	1-576-655-12	FUSE, GLASS TUBE (DIA. 5) (8A/250V)	
304	1-569-008-32	ADAPTOR, CONVERSION (E51, SP)		Δ F906	1-533-470-12	FUSE, GLASS TUBE (DIA. 5) (T3.15AL/250V)	
305	4-988-533-01	HOLDER, PWB		Δ F907	1-533-470-12	FUSE, GLASS TUBE (DIA. 5) (T3.15AL/250V)	
306	A-4750-668-A	MAIN BOARD, COMPLETE (E51, MX)		Δ PT901	1-443-237-11	TRANSFORMER, POWER (EXCEPT MX)	
306	A-4750-707-A	MAIN BOARD, COMPLETE (E, SP)		Δ PT901	1-443-284-11	TRANSFORMER, POWER (MX)	
306	A-4752-940-A	MAIN BOARD, COMPLETE (AUS)		#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3 (E51)	
306	A-4752-955-A	MAIN BOARD, COMPLETE (TW)		#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
307	4-242-539-01	BVIT3B+3-8R W/O SLOT		#4	7-685-881-09	SCREW +BVTT 4X8 (S)	
308	1-400-285-11	F-BEAD, E2515MRT					

7-8. CD MECHANISM DECK SECTION-1
(CDM74-F1BD81)



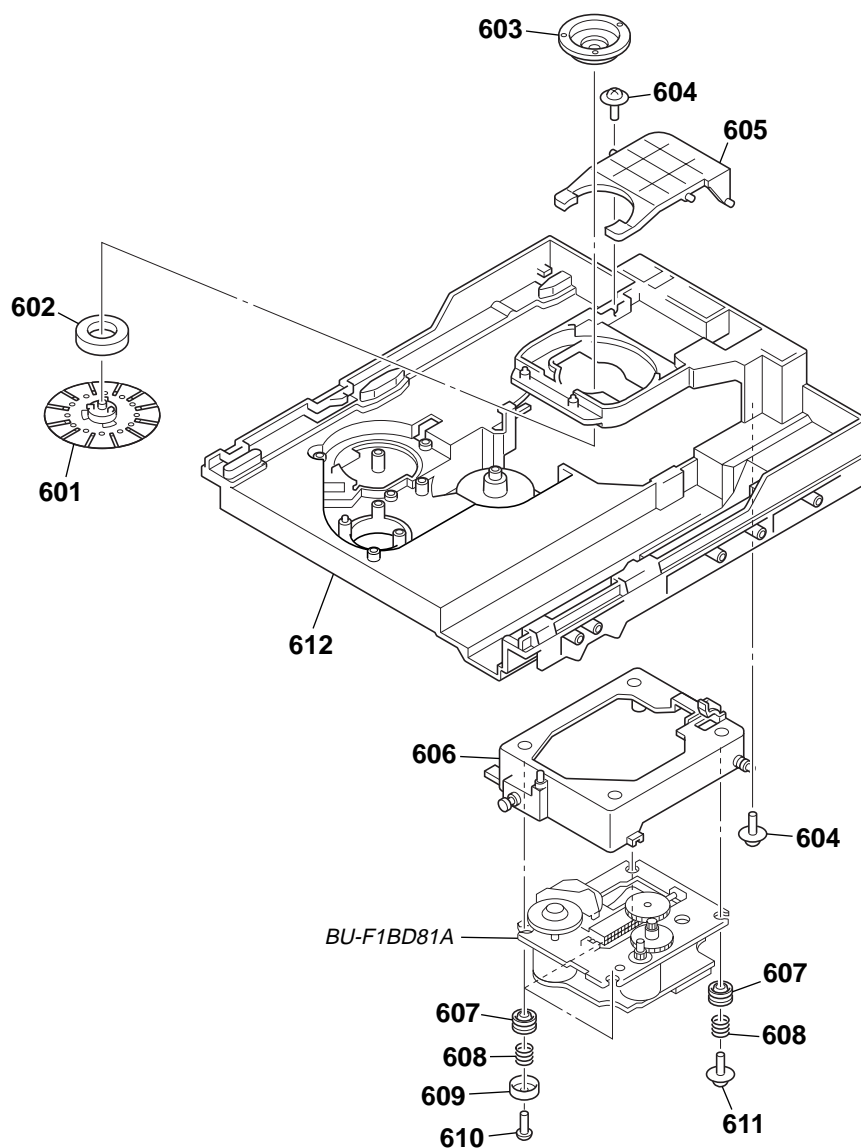
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501	4-243-815-01	TABLE (LOADING)		510	1-687-134-12	MOTOR (TB) BOARD	
502	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		511	4-243-816-01	TRAY	
503	4-218-253-21	SCREW (M2.6), +BTTP		512	3-321-598-01	SHEET (BA)	
504	1-687-132-12	SENSOR BOARD		513	4-245-570-01	GEAR (JOINT)	
505	4-243-819-01	GEAR (GENEVA)		514	4-245-571-02	GEAR (STOPPER)	
506	4-243-820-01	GEAR (TABLE)		515	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
507	4-243-823-01	BELT (TABLE)		516	4-245-572-01	BUSHING (GEAR)	
508	4-243-821-01	PULLEY (TABLE)		M741	A-4723-963-A	MOTOR ASSY, TABLE	
509	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)					

7-9. CD MECHANISM DECK SECTION-2
(CDM74-F1BD81)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
551	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		560	3-016-533-11	WASHER (FR), STOPPER	
552	4-244-034-01	BELT (LOADING)		561	4-244-108-01	GEAR, SWING	
553	4-224-613-01	GEAR (SHAFT)		562	4-224-608-01	COLLAR, SWING	
554	4-218-253-31	SCREW (M2.6), +BTTP		563	1-687-133-12	MOTOR (LD) BOARD	
555	1-687-669-12	SW BOARD		564	4-224-606-01	GEAR (RV)	
556	1-687-135-12	DRIVER BOARD		565	4-243-818-01	GEAR (U/D)	
557	4-225-844-01	GEAR (LOADING A)		M751	A-4736-655-A	MOTOR ASSY, LOADING	
558	4-224-611-01	GEAR (LOADING B)		S711	1-477-680-12	ENCODER, ROTARY (DISC TRAY ADDRESS DETECT)	
559	4-224-609-01	GEAR (LOADING C)					

7-10. CD MECHANISM DECK SECTION-3
(CDM74-F1BD81)

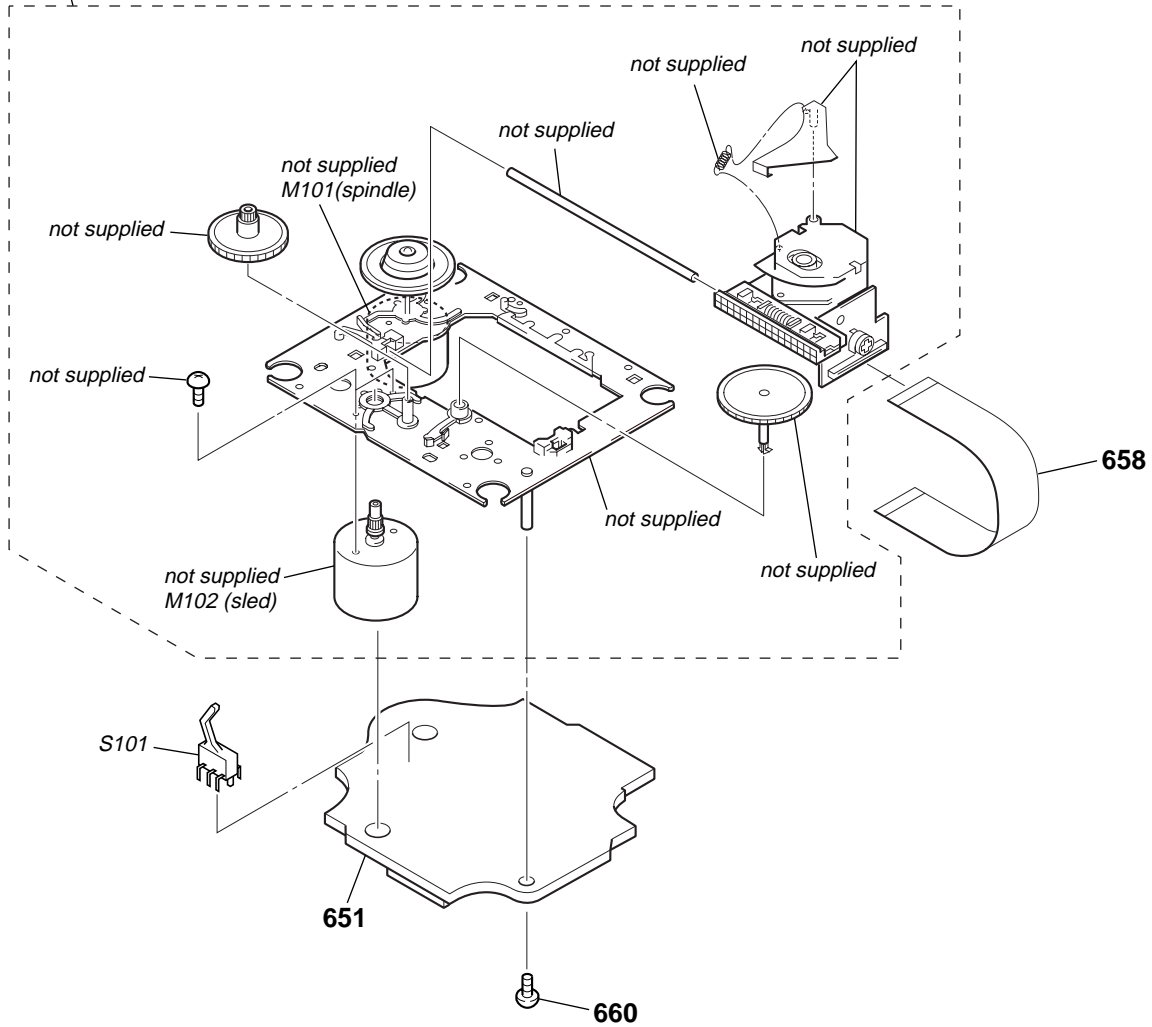


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
601	X-4955-707-2	PULLEY (A5) ASSY, CHUCKING		607	4-227-549-11	INSULATOR	
602	1-471-035-11	MAGNET ASSY		608	4-227-045-31	SPRING (INSULATOR), COIL	
603	4-231-189-01	PULLEY (B), CHUCKING		609	4-231-151-01	STOPPER (BU)	
604	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		610	4-218-253-31	SCREW (M2.6), +BTTP	
605	4-243-822-02	LEVER (LIFTER)		611	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
606	X-4955-536-1	HOLDER (213) ASSY		612	4-243-817-01	CHASSIS	

7-11. BASE UNIT SECTION
(BU-F1BD81A)

657

(including M101 (spindle), M102 (sled))



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
651	A-4751-431-A	CD BOARD, COMPLETE		660	4-951-620-01	SCREW (2.6X8), +BVTP	
\triangle 657	8-820-244-11	OPTICAL PICK-UP KSM-215DCP/C2NP		S101	1-771-853-11	SWITCH, DETECTION (LIMIT)	
658	1-827-992-11	WIRE (FLAT TYPE) (16 CORE)					

SECTION 8 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 and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Abbreviation
AUS : Australian model SP : Singapore model
E51 : Chilean and Peruvian models TW : Taiwan model
MX : Mexican model
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . : μ A. . uPA. . : μ PA. .
uPB. . : μ PB. . uPC. . : μ PC. .
uPD. . : μ PD. .
- CAPACITORS
uF: μ F
- COILS
uH: μ H

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-4751-431-A	CD BOARD, COMPLETE *****					
		< CAPACITOR/SHORT >					
C10	1-165-989-11	CERAMIC CHIP 10uF	10%	C201	1-128-995-21	ELECT CHIP 100uF	20% 10V
C11	1-165-989-11	CERAMIC CHIP 10uF	10%	C203	1-128-995-21	ELECT CHIP 100uF	20% 10V
C14	1-164-360-11	CERAMIC CHIP 0.1uF		C209	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C15	1-164-360-11	CERAMIC CHIP 0.1uF		C210	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C16	1-115-156-11	CERAMIC CHIP 1uF		C211	1-164-230-11	CERAMIC CHIP 220PF	5% 50V
C17	1-126-246-11	ELECT CHIP 220uF	20%	C212	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C18	1-162-964-11	CERAMIC CHIP 0.001uF	10%	C213	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C111	1-162-967-11	CERAMIC CHIP 0.0033uF	10%	C251	1-162-969-11	CERAMIC CHIP 0.0068uF	10% 25V
C112	1-164-315-11	CERAMIC CHIP 470PF	5%	C252	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C113	1-162-967-11	CERAMIC CHIP 0.0033uF	10%	C255	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C114	1-164-315-11	CERAMIC CHIP 470PF	5%	C257	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C115	1-164-360-11	CERAMIC CHIP 0.1uF		C258	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C116	1-128-995-21	ELECT CHIP 100uF	20%	C259	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C122	1-107-826-11	CERAMIC CHIP 0.1uF	10%	C260	1-128-394-11	ELECT CHIP 220uF	20% 10V
C123	1-107-826-11	CERAMIC CHIP 0.1uF	10%	C302	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C124	1-162-959-11	CERAMIC CHIP 330PF	5%	C303	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C125	1-164-360-11	CERAMIC CHIP 0.1uF		C305	1-126-246-11	ELECT CHIP 220uF	20% 4V
C131	1-162-927-11	CERAMIC CHIP 100PF	5%	C306	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C132	1-117-863-11	CERAMIC CHIP 0.47uF	10%	C307	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C133	1-162-970-11	CERAMIC CHIP 0.01uF	10%	C308	1-126-208-21	ELECT CHIP 47uF	20% 4V
C134	1-164-360-11	CERAMIC CHIP 0.1uF		C309	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C141	1-107-826-11	CERAMIC CHIP 0.1uF	10%	C310	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C142	1-162-965-11	CERAMIC CHIP 0.0015uF	10%	C311	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C143	1-164-360-11	CERAMIC CHIP 0.1uF		C312	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C151	1-128-995-21	ELECT CHIP 100uF	20%	C313	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C161	1-164-360-11	CERAMIC CHIP 0.1uF		C314	1-126-208-21	ELECT CHIP 47uF	20% 4V
C162	1-164-360-11	CERAMIC CHIP 0.1uF		C315	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C163	1-164-360-11	CERAMIC CHIP 0.1uF		C316	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
C171	1-162-919-11	CERAMIC CHIP 22PF	5%	C317	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C172	1-162-920-11	CERAMIC CHIP 27PF	5%	C318	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C174	1-164-360-11	CERAMIC CHIP 0.1uF		C320	1-216-864-11	SHORT CHIP 0	
C181	1-164-360-11	CERAMIC CHIP 0.1uF				< CONNECTOR >	
C182	1-164-360-11	CERAMIC CHIP 0.1uF		CN101	1-770-425-11	CONNECTOR, FFC/FPC 16P	
C183	1-124-778-00	ELECT CHIP 22uF	20%	CN201	1-818-350-11	CONNECTOR (FFC) 27P	
C184	1-124-778-00	ELECT CHIP 22uF	20%			< FERRITE BEAD >	
C185	1-164-315-11	CERAMIC CHIP 470PF	5%	FB301	1-500-445-21	FERRITE, EMI (SMD) (2012)	
C186	1-164-315-11	CERAMIC CHIP 470PF	5%			< IC >	
C194	1-164-360-11	CERAMIC CHIP 0.1uF		IC101	8-752-425-12	IC CXD3059AR	
C195	1-164-360-11	CERAMIC CHIP 0.1uF		IC251	6-705-808-01	IC BA5947FM	
C196	1-164-360-11	CERAMIC CHIP 0.1uF					

CD	CDMP3 CONNECT	DRIVER
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Ref. No.	Part No.	Description	Remark
IC301	6-705-365-01	IC TC94A34FG-002	
IC303	6-705-807-01	IC BH15FB1WG	
< TRANSISTOR >			
Q10	6-550-363-01	TRANSISTOR 2SB1690KT146	
< 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	1-216-295-00	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
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

Ref. No.	Part No.	Description	Remark
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
< VIBRATOR >			
X171	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)	

CDMP3 CONNECT BOARD			

< CAPACITOR >			
C871	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C872	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C873	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C874	1-164-315-11	CERAMIC CHIP 470PF	5% 50V
C875	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C876	1-164-156-11	CERAMIC CHIP 0.1uF	25V
< CONNECTOR >			
CN871	1-779-295-11	CONNECTOR, FFC (LIF (NON-ZIF)) 27P	
CN873	1-784-778-11	CONNECTOR, FFC 17P	
* CN874	1-564-725-11	PIN, CONNECTOR (SMALL TYPE) 9P	
< SHORT >			
FB871	1-216-864-11	SHORT CHIP 0	
FB872	1-216-864-11	SHORT CHIP 0	
JR871	1-216-864-11	SHORT CHIP 0	
JR872	1-216-864-11	SHORT CHIP 0	

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	1-164-159-21	CERAMIC 0.1uF	50V
C736	1-164-159-21	CERAMIC 0.1uF	50V
C737	1-164-159-21	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	1-164-159-21	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	8-719-921-42	DIODE MTZJ-5.1A	
D711	8-719-109-69	DIODE RD3.6ESB2	

DRIVER	HEADPHONE	MAIN
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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< IC >		C115	1-131-679-31	FILM 0.01uF 5%	50V
IC701	8-759-598-69	IC BA6956AN		C116	1-164-392-11	CERAMIC CHIP 390PF 5%	50V
IC712	8-759-598-69	IC BA6956AN		C117	1-164-816-11	CERAMIC CHIP 220PF 2%	50V
		< TRANSISTOR >		C118	1-126-964-11	ELECT 10uF 20%	50V
Q731	8-729-029-66	TRANSISTOR DTC114ESA		C119	1-131-679-31	FILM 0.01uF 5%	50V
		< RESISTOR >		C120	1-164-392-11	CERAMIC CHIP 390PF 5%	50V
R701	1-249-413-11	CARBON 470 5%	1/4W	C121	1-164-816-11	CERAMIC CHIP 220PF 2%	50V
R702	1-247-807-31	CARBON 100 5%	1/4W	C122	1-126-964-11	ELECT 10uF 20%	50V
R711	1-249-417-11	CARBON 1K 5%	1/4W	C123	1-126-965-11	ELECT 22uF 20%	50V
R712	1-249-425-11	CARBON 4.7K 5%	1/4W	C124	1-162-953-11	CERAMIC CHIP 100PF 5%	50V
R713	1-249-433-11	CARBON 22K 5%	1/4W	C125	1-162-953-11	CERAMIC CHIP 100PF 5%	50V
R721	1-249-425-11	CARBON 4.7K 5%	1/4W	C126	1-162-971-11	CERAMIC CHIP 0.001uF 10%	50V
R722	1-249-425-11	CARBON 4.7K 5%	1/4W	C127	1-104-665-11	ELECT 100uF 20%	25V
R723	1-249-425-11	CARBON 4.7K 5%	1/4W	C128	1-104-665-11	ELECT 100uF 20%	25V
R731	1-247-807-31	CARBON 100 5%	1/4W	C129	1-126-947-11	ELECT 47uF 20%	35V
R732	1-249-429-11	CARBON 10K 5%	1/4W	C132	1-126-947-11	ELECT 47uF 20%	35V
R733	1-249-417-11	CARBON 1K 5%	1/4W	C135	1-136-165-00	FILM 0.1uF 5%	50V
R734	1-249-430-11	CARBON 12K 5%	1/4W	C136	1-136-165-00	FILM 0.1uF 5%	50V
R735	1-247-807-31	CARBON 100 5%	1/4W	C137	1-126-964-11	ELECT 10uF 20%	50V
R751	1-249-425-11	CARBON 4.7K 5%	1/4W	C138	1-126-964-11	ELECT 10uF 20%	50V

HEADPHONE BOARD							

		< CAPACITOR >		C140	1-136-165-00	FILM 0.1uF 5%	50V
C806	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C141	1-126-964-11	ELECT 10uF 20%	50V
C807	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C142	1-126-964-11	ELECT 10uF 20%	50V
C808	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C143	1-126-960-11	ELECT 1uF 20%	50V
		< JACK >		C144	1-136-165-00	FILM 0.1uF 5%	50V
J801	1-793-829-11	JACK, HEADPHONE (PHONES)		C145	1-126-964-11	ELECT 10uF 20%	50V

A-4750-668-A	MAIN BOARD, COMPLETE (E51, MX)						
A-4750-707-A	MAIN BOARD, COMPLETE (E, SP)						
A-4752-940-A	MAIN BOARD, COMPLETE (AUS)						
A-4752-955-A	MAIN BOARD, COMPLETE (TW)						

7-685-872-09	SCREW +BVTT 3X8 (S)						
		< CAPACITOR >		C146	1-136-165-00	FILM 0.1uF 5%	50V
C101	1-126-960-11	ELECT 1uF 20%	50V	C147	1-126-964-11	ELECT 10uF 20%	50V
C102	1-126-960-11	ELECT 1uF 20%	50V	C148	1-131-679-31	FILM 0.01uF 5%	50V
C103	1-126-956-11	ELECT 0.1uF 20%	50V	C149	1-131-679-31	FILM 0.01uF 5%	50V
C104	1-126-956-11	ELECT 0.1uF 20%	50V	C150	1-131-679-31	FILM 0.01uF 5%	50V
C105	1-164-816-11	CERAMIC CHIP 220PF 2%	50V	C151	1-131-679-31	FILM 0.01uF 5%	50V
C106	1-131-679-31	FILM 0.01uF 5%	50V	C152	1-130-475-00	MYLAR 0.0022uF 5%	50V
C107	1-126-964-11	ELECT 10uF 20%	50V	C153	1-130-475-00	MYLAR 0.0022uF 5%	50V
C108	1-164-816-11	CERAMIC CHIP 220PF 2%	50V	C154	1-131-700-31	FILM 0.47uF 5%	50V
C109	1-131-679-31	FILM 0.01uF 5%	50V	C157	1-126-960-11	ELECT 1uF 20%	50V
C110	1-126-964-11	ELECT 10uF 20%	50V	C159	1-126-960-11	ELECT 1uF 20%	50V
C111	1-126-960-11	ELECT 1uF 20%	50V	C160	1-126-960-11	ELECT 1uF 20%	50V
C112	1-126-960-11	ELECT 1uF 20%	50V	C165	1-126-960-11	ELECT 1uF 20%	50V
C113	1-126-960-11	ELECT 1uF 20%	50V	C166	1-126-960-11	ELECT 1uF 20%	50V
C114	1-126-960-11	ELECT 1uF 20%	50V	C167	1-126-960-11	ELECT 1uF 20%	50V
				C169	1-126-960-11	ELECT 1uF 20%	50V
				C171	1-164-362-11	CERAMIC CHIP 470PF 5%	50V
				C172	1-164-362-11	CERAMIC CHIP 470PF 5%	50V
				C175	1-109-953-11	ELECT 2.2uF 20%	50V
				C176	1-126-964-11	ELECT 10uF 20%	50V
				C177	1-162-945-11	CERAMIC CHIP 22PF 5%	50V
				C178	1-126-947-11	ELECT 47uF 20%	35V
				C179	1-162-949-11	CERAMIC CHIP 47PF 5%	50V
				C181	1-162-949-11	CERAMIC CHIP 47PF 5%	50V
				C183	1-162-945-11	CERAMIC CHIP 22PF 5%	50V
				C184	1-126-947-11	ELECT 47uF 20%	35V
				C185	1-126-964-11	ELECT 10uF 20%	50V
				C186	1-126-947-11	ELECT 47uF 20%	35V
				C187	1-162-974-11	CERAMIC CHIP 0.01uF	50V
				C188	1-126-965-11	ELECT 22uF 20%	50V

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C189	1-126-965-11	ELECT	22uF 20% 50V	C371	1-164-362-11	CERAMIC CHIP 470PF 5% 50V	
C190	1-162-974-11	CERAMIC CHIP	0.01uF 50V	C372	1-162-953-11	CERAMIC CHIP 100PF 5% 50V	
C191	1-126-961-11	ELECT	2.2uF 20% 50V	C373	1-162-953-11	CERAMIC CHIP 100PF 5% 50V	
C192	1-126-961-11	ELECT	2.2uF 20% 50V	C374	1-126-947-11	ELECT 47uF 20% 35V	
C193	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	C375	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C206	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	C376	1-126-961-11	ELECT 2.2uF 20% 50V	
C211	1-109-953-11	ELECT	2.2uF 20% 50V	< CONNECTOR >			
C212	1-126-964-11	ELECT	10uF 20% 50V	CN101	1-568-830-11	CONNECTOR, FFC 11P	
C213	1-126-964-11	ELECT	10uF 20% 50V	* CN103	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P	
C214	1-126-926-11	ELECT	1000uF 20% 10V	* CN112	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
C216	1-164-156-11	CERAMIC CHIP	0.1uF 25V	* CN301	1-568-950-11	PIN, CONNECTOR 12P	
C217	1-164-156-11	CERAMIC CHIP	0.1uF 25V	CN302	1-568-844-11	CONNECTOR, FFC 29P	
C222	1-164-156-11	CERAMIC CHIP	0.1uF 25V	CN307	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P	
C228	1-164-156-11	CERAMIC CHIP	0.1uF 25V	CN308	1-564-506-11	PLUG, CONNECTOR 3P	
C229	1-126-963-11	ELECT	4.7uF 20% 50V	CN309	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P	
C230	1-126-947-11	ELECT	47uF 20% 35V	< DIODE >			
C235	1-164-156-11	CERAMIC CHIP	0.1uF 25V	D201	8-719-988-61	DIODE 1SS355TE-17	
C241	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	D202	8-719-083-63	DIODE UDZSTE-1713B	
C242	1-130-479-00	MYLAR	0.0047uF 5% 50V	D206	8-719-988-61	DIODE 1SS355TE-17	
C243	1-130-479-00	MYLAR	0.0047uF 5% 50V	D207	8-719-988-61	DIODE 1SS355TE-17	
C244	1-131-681-31	FILM	0.015uF 5% 50V	D211	8-719-988-61	DIODE 1SS355TE-17	
C246	1-136-157-00	FILM	0.022uF 5% 50V	D212	8-719-988-61	DIODE 1SS355TE-17	
C248	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	D213	8-719-988-61	DIODE 1SS355TE-17	
C249	1-126-964-11	ELECT	10uF 20% 50V	D214	8-719-988-61	DIODE 1SS355TE-17	
C250	1-126-947-11	ELECT	47uF 20% 35V	D215	8-719-988-61	DIODE 1SS355TE-17	
C251	1-126-947-11	ELECT	47uF 20% 35V	D301	6-500-522-31	DIODE 10EDB40-TB5	
C252	1-126-933-11	ELECT	100uF 20% 16V	D302	6-500-522-31	DIODE 10EDB40-TB5	
C253	1-126-956-11	ELECT	0.1uF 20% 50V	D303	6-500-522-31	DIODE 10EDB40-TB5	
C258	1-126-959-11	ELECT	0.47uF 20% 50V	D304	6-500-522-31	DIODE 10EDB40-TB5	
C259	1-126-957-11	ELECT	0.22uF 20% 50V	D305	6-500-522-31	DIODE 10EDB40-TB5	
C264	1-162-971-11	CERAMIC CHIP	0.001uF 10% 50V	D306	6-500-522-31	DIODE 10EDB40-TB5	
C265	1-162-971-11	CERAMIC CHIP	0.001uF 10% 50V	D307	6-500-522-31	DIODE 10EDB40-TB5	
C266	1-162-971-11	CERAMIC CHIP	0.001uF 10% 50V	D308	6-500-522-31	DIODE 10EDB40-TB5	
C267	1-162-971-11	CERAMIC CHIP	0.001uF 10% 50V	D309	6-500-522-31	DIODE 10EDB40-TB5	
C270	1-126-964-11	ELECT	10uF 20% 50V	D310	6-500-522-31	DIODE 10EDB40-TB5	
C274	1-162-949-11	CERAMIC CHIP	47PF 5% 50V	D311	6-500-522-31	DIODE 10EDB40-TB5	
C275	1-162-949-11	CERAMIC CHIP	47PF 5% 50V	D312	6-500-522-31	DIODE 10EDB40-TB5	
C301	1-136-165-00	FILM	0.1uF 5% 50V	D313	8-719-085-36	DIODE 11EQS04-TB5	
C302	1-136-165-00	FILM	0.1uF 5% 50V	D316	8-719-988-61	DIODE 1SS355TE-17	
C303	1-136-165-00	FILM	0.1uF 5% 50V	D321	8-719-988-61	DIODE 1SS355TE-17	
C304	1-136-165-00	FILM	0.1uF 5% 50V	D322	8-719-988-61	DIODE 1SS355TE-17	
C305	1-136-165-00	FILM	0.1uF 5% 50V	D324	6-500-522-31	DIODE 10EDB40-TB5	
C306	1-136-165-00	FILM	0.1uF 5% 50V	D325	6-500-522-31	DIODE 10EDB40-TB5	
C308	1-126-965-11	ELECT	22uF 20% 50V	D326	6-500-522-21	DIODE 10EDB40-TB3	
C309	1-126-965-11	ELECT	22uF 20% 50V	< EARTH TERMINAL >			
C310	1-126-936-11	ELECT	3300uF 20% 16V	EP101	1-537-771-21	TERMINAL BOARD, GROUND	
C311	1-126-964-11	ELECT	10uF 20% 50V	EP301	1-537-771-21	TERMINAL BOARD, GROUND	
C312	1-126-964-11	ELECT	10uF 20% 50V	< SHORT >			
C313	1-126-943-11	ELECT	2200uF 20% 25V	FB201	1-216-864-11	SHORT CHIP 0	
C315	1-126-933-11	ELECT	100uF 20% 16V	FB202	1-216-864-11	SHORT CHIP 0	
C316	1-126-943-11	ELECT	2200uF 20% 25V	FB203	1-216-864-11	SHORT CHIP 0	
C318	1-126-933-11	ELECT	100uF 20% 16V	FB204	1-216-864-11	SHORT CHIP 0	
C321	1-126-961-11	ELECT	2.2uF 20% 50V				
C342	1-164-156-11	CERAMIC CHIP	0.1uF 25V				
C351	1-164-357-11	CERAMIC CHIP	0.001uF 5% 50V				
C352	1-126-965-11	ELECT	22uF 20% 50V				
C353	1-126-961-11	ELECT	2.2uF 20% 50V				
C354	1-164-156-11	CERAMIC CHIP	0.1uF 25V				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< IC >		R110	1-216-851-11	METAL CHIP 330K 5%	1/10W
IC101	6-705-852-01	IC BD3401KS2		R111	1-216-844-11	METAL CHIP 82K 5%	1/10W
IC102	8-759-710-97	IC NJM4565M-D		R112	1-216-853-11	METAL CHIP 470K 5%	1/10W
IC201	8-759-508-69	IC BA3126N		R113	1-216-851-11	METAL CHIP 330K 5%	1/10W
IC301	6-702-771-01	IC TA78033LS		R114	1-216-844-11	METAL CHIP 82K 5%	1/10W
IC302	6-702-771-01	IC TA78033LS		R115	1-216-857-11	METAL CHIP 1M 5%	1/10W
IC303	8-759-701-59	IC NJM78M09FA		R116	1-216-809-11	METAL CHIP 100 5%	1/10W
IC304	8-759-701-59	IC NJM78M09FA		R117	1-216-809-11	METAL CHIP 100 5%	1/10W
IC371	6-704-046-01	IC BU2099FV		R119	1-216-841-11	METAL CHIP 47K 5%	1/10W
		< JACK >		R120	1-216-857-11	METAL CHIP 1M 5%	1/10W
JK101	1-774-822-21	JACK, PIN 2P (VIDEO/MD IN) (TW, AUS)		R121	1-216-841-11	METAL CHIP 47K 5%	1/10W
JK101	1-785-868-11	JACK, PIN 2P (VIDEO/MD IN) (E, E51, MX, SP)		R122	1-216-849-11	METAL CHIP 220K 5%	1/10W
		< COIL >		R127	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
L101	1-437-220-11	TRANSFORMER, BIAS OSCILLATION		R128	1-216-835-11	METAL CHIP 15K 5%	1/10W
		< TRANSISTOR >		R129	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R130	1-216-849-11	METAL CHIP 220K 5%	1/10W
Q102	6-550-580-01	TRANSISTOR 2SA1235TP-1F		R131	1-216-835-11	METAL CHIP 15K 5%	1/10W
Q103	8-729-802-80	TRANSISTOR 2SC3661		R132	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q104	8-729-802-80	TRANSISTOR 2SC3661		R133	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q105	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R134	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q106	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R135	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q107	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R136	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q304	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R137	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q305	6-550-580-01	TRANSISTOR 2SA1235TP-1F		R138	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q306	8-729-802-80	TRANSISTOR 2SC3661		R139	1-216-864-11	SHORT CHIP 0	
Q307	8-729-802-80	TRANSISTOR 2SC3661		R143	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q308	6-550-580-01	TRANSISTOR 2SA1235TP-1F		R144	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q309	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R145	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q310	8-729-142-46	TRANSISTOR 2SC2001-LK		R146	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q311	8-729-142-46	TRANSISTOR 2SC2001-LK		R151	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q312	8-729-041-19	TRANSISTOR 2SA953-T-K		R152	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q313	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R153	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q314	6-550-580-01	TRANSISTOR 2SA1235TP-1F		R154	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q315	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R155	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q321	8-729-142-46	TRANSISTOR 2SC2001-LK		R156	1-216-853-11	METAL CHIP 470K 5%	1/10W
Q322	6-550-580-01	TRANSISTOR 2SA1235TP-1F		R157	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q323	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R158	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q324	8-729-140-04	TRANSISTOR 2SB1116A-L		R159	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q327	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R160	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q351	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R161	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q352	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R162	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q361	6-550-580-01	TRANSISTOR 2SA1235TP-1F		R163	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q362	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R164	1-216-821-11	METAL CHIP 1K 5%	1/10W
		< RESISTOR >		R165	1-216-833-11	METAL CHIP 10K 5%	1/10W
R101	1-216-833-11	METAL CHIP 10K 5%	1/10W	R166	1-216-833-11	METAL CHIP 10K 5%	1/10W
R102	1-216-833-11	METAL CHIP 10K 5%	1/10W	R167	1-216-833-11	METAL CHIP 10K 5%	1/10W
R103	1-216-851-11	METAL CHIP 330K 5%	1/10W	R168	1-216-845-11	METAL CHIP 100K 5%	1/10W
R104	1-216-835-11	METAL CHIP 15K 5%	1/10W	R169	1-216-845-11	METAL CHIP 100K 5%	1/10W
R105	1-216-816-11	METAL CHIP 390 5%	1/10W	R170	1-216-833-11	METAL CHIP 10K 5%	1/10W
R106	1-216-851-11	METAL CHIP 330K 5%	1/10W	R171	1-216-833-11	METAL CHIP 10K 5%	1/10W
R107	1-216-835-11	METAL CHIP 15K 5%	1/10W	R172	1-216-809-11	METAL CHIP 100 5%	1/10W
R108	1-216-816-11	METAL CHIP 390 5%	1/10W	R173	1-216-833-11	METAL CHIP 10K 5%	1/10W
R109	1-216-853-11	METAL CHIP 470K 5%	1/10W	R174	1-216-833-11	METAL CHIP 10K 5%	1/10W
				R175	1-216-833-11	METAL CHIP 10K 5%	1/10W
				R176	1-216-849-11	METAL CHIP 220K 5%	1/10W
				R177	1-216-849-11	METAL CHIP 220K 5%	1/10W
				R194	1-216-829-11	METAL CHIP 4.7K 5%	1/10W

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R195	1-216-829-11	METAL CHIP	4.7K 5%	R282	1-216-825-11	METAL CHIP	2.2K 5%
R196	1-216-864-11	SHORT CHIP	0	R283	1-216-825-11	METAL CHIP	2.2K 5%
R197	1-216-825-11	METAL CHIP	2.2K 5%	R284	1-216-825-11	METAL CHIP	2.2K 5%
R198	1-216-825-11	METAL CHIP	2.2K 5%	R306	1-216-833-11	METAL CHIP	10K 5%
R201	1-216-829-11	METAL CHIP	4.7K 5%	R307	1-216-833-11	METAL CHIP	10K 5%
R202	1-216-833-11	METAL CHIP	10K 5%	R308	1-216-825-11	METAL CHIP	2.2K 5%
R203	1-216-833-11	METAL CHIP	10K 5%	R310	1-216-833-11	METAL CHIP	10K 5%
R204	1-216-833-11	METAL CHIP	10K 5%	R311	1-216-829-11	METAL CHIP	4.7K 5%
R205	1-216-829-11	METAL CHIP	4.7K 5%	R312	1-126-964-11	ELECT	10uF 20% 50V
R206	1-216-841-11	METAL CHIP	47K 5%	R312	1-216-837-11	METAL CHIP	22K 5%
R207	1-216-825-11	METAL CHIP	2.2K 5%	R313	1-216-829-11	METAL CHIP	4.7K 5%
R208	1-216-821-11	METAL CHIP	1K 5%	R321	1-216-829-11	METAL CHIP	4.7K 5%
R209	1-216-833-11	METAL CHIP	10K 5%	R322	1-216-837-11	METAL CHIP	22K 5%
R210	1-216-825-11	METAL CHIP	2.2K 5%	R323	1-216-829-11	METAL CHIP	4.7K 5%
R211	1-216-821-11	METAL CHIP	1K 5%	R324	1-216-833-11	METAL CHIP	10K 5%
R212	1-216-833-11	METAL CHIP	10K 5%	R325	1-216-829-11	METAL CHIP	4.7K 5%
R213	1-216-821-11	METAL CHIP	1K 5%	R341	1-216-833-11	METAL CHIP	10K 5%
R214	1-216-821-11	METAL CHIP	1K 5%	R342	1-216-821-11	METAL CHIP	1K 5%
R216	1-216-806-11	METAL CHIP	56 5%	R343	1-216-837-11	METAL CHIP	22K 5%
R217	1-216-806-11	METAL CHIP	56 5%	R344	1-216-837-11	METAL CHIP	22K 5%
△ R218	1-215-891-11	METAL OXIDE	680 5%	R345	1-216-833-11	METAL CHIP	10K 5%
△ R219	1-215-891-11	METAL OXIDE	680 5%	R346	1-216-821-11	METAL CHIP	1K 5%
R220	1-216-837-11	METAL CHIP	22K 5%	R347	1-216-837-11	METAL CHIP	22K 5%
R221	1-216-837-11	METAL CHIP	22K 5%	R348	1-216-837-11	METAL CHIP	22K 5%
R222	1-216-830-11	METAL CHIP	5.6K 5%	R351	1-216-835-11	METAL CHIP	15K 5%
R223	1-216-864-11	SHORT CHIP	0	R352	1-216-845-11	METAL CHIP	100K 5%
R225	1-216-829-11	METAL CHIP	4.7K 5%	R353	1-216-841-11	METAL CHIP	47K 5%
R226	1-216-841-11	METAL CHIP	47K 5%	R354	1-216-829-11	METAL CHIP	4.7K 5%
R227	1-216-821-11	METAL CHIP	1K 5%	R356	1-216-817-11	METAL CHIP	470 5%
R228	1-216-821-11	METAL CHIP	1K 5%	R357	1-216-825-11	METAL CHIP	2.2K 5%
R229	1-216-829-11	METAL CHIP	4.7K 5%	R358	1-216-809-11	METAL CHIP	100 5%
R230	1-216-825-11	METAL CHIP	2.2K 5%	R361	1-216-833-11	METAL CHIP	10K 5%
R231	1-216-833-11	METAL CHIP	10K 5%	R362	1-216-825-11	METAL CHIP	2.2K 5%
R232	1-216-833-11	METAL CHIP	10K 5%	R363	1-216-829-11	METAL CHIP	4.7K 5%
R235	1-216-793-11	METAL CHIP	4.7 5%	R364	1-216-829-11	METAL CHIP	4.7K 5%
R241	1-216-797-11	METAL CHIP	10 5%	R371	1-216-809-11	METAL CHIP	100 5%
R242	1-216-837-11	METAL CHIP	22K 5%	R372	1-216-809-11	METAL CHIP	100 5%
R243	1-216-833-11	METAL CHIP	10K 5%	R373	1-216-809-11	METAL CHIP	100 5%
R244	1-216-833-11	METAL CHIP	10K 5%	R374	1-216-833-11	METAL CHIP	10K 5%
R245	1-216-829-11	METAL CHIP	4.7K 5%	R375	1-216-833-11	METAL CHIP	10K 5%
R246	1-216-809-11	METAL CHIP	100 5%	R376	1-216-833-11	METAL CHIP	10K 5%
R247	1-216-833-11	METAL CHIP	10K 5%	R377	1-216-833-11	METAL CHIP	10K 5%
R248	1-216-833-11	METAL CHIP	10K 5%	R378	1-216-833-11	METAL CHIP	10K 5%
R249	1-216-841-11	METAL CHIP	47K 5%	R379	1-216-833-11	METAL CHIP	10K 5%
R250	1-216-833-11	METAL CHIP	10K 5%	R380	1-216-833-11	METAL CHIP	10K 5%
R251	1-216-833-11	METAL CHIP	10K 5%	R381	1-216-833-11	METAL CHIP	10K 5%
R252	1-216-811-11	METAL CHIP	150 5%	R382	1-216-833-11	METAL CHIP	10K 5%
R253	1-216-809-11	METAL CHIP	100 5%	R383	1-216-833-11	METAL CHIP	10K 5%
R262	1-216-827-11	METAL CHIP	3.3K 5%	R384	1-216-833-11	METAL CHIP	10K 5%
R263	1-216-857-11	METAL CHIP	1M 5%	R385	1-216-829-11	METAL CHIP	4.7K 5%
R264	1-216-821-11	METAL CHIP	1K 5%	R386	1-216-837-11	METAL CHIP	22K 5%
R265	1-216-833-11	METAL CHIP	10K 5%	R387	1-216-829-11	METAL CHIP	4.7K 5%
R266	1-216-845-11	METAL CHIP	100K 5%	R388	1-216-837-11	METAL CHIP	22K 5%
R272	1-216-853-11	METAL CHIP	470K 5%	R389	1-216-829-11	METAL CHIP	4.7K 5%
R273	1-216-864-11	SHORT CHIP	0	R390	1-216-837-11	METAL CHIP	22K 5%
R274	1-216-864-11	SHORT CHIP	0	R391	1-216-833-11	METAL CHIP	10K 5%
R275	1-216-864-11	SHORT CHIP	0	R392	1-216-821-11	METAL CHIP	1K 5%
R281	1-216-825-11	METAL CHIP	2.2K 5%				

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

MAIN

MOTOR (LD)

MOTOR (TB)

PANEL

Ref. No.	Part No.	Description	Remark
R393	1-216-833-11	METAL CHIP 10K	5% 1/10W
R394	1-216-821-11	METAL CHIP 1K	5% 1/10W
R395	1-216-837-11	METAL CHIP 22K	5% 1/10W

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

	1-687-134-12	MOTOR (TB) BOARD	*****
		< CONNECTOR >	
CN742	1-784-727-11	CONNECTOR, FFC 5P	*****

	A-4750-653-A	PANEL BOARD, COMPLETE (E51, MX)	
	A-4750-705-A	PANEL BOARD, COMPLETE (E, SP, TW)	
	A-4752-938-A	PANEL BOARD, COMPLETE (AUS)	*****
		< CAPACITOR >	
C601	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C602	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C603	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C604	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C605	1-126-963-11	ELECT 4.7uF	20% 50V
C606	1-115-156-11	CERAMIC CHIP 1uF	10V
C607	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C608	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C609	1-115-156-11	CERAMIC CHIP 1uF	10V
C610	1-126-916-11	ELECT 1000uF	20% 6.3V
C611	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C612	1-126-964-11	ELECT 10uF	20% 50V
C613	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C614	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C615	1-126-961-11	ELECT 2.2uF	20% 50V
C617	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C618	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C619	1-126-947-11	ELECT 47uF	20% 35V
C620	1-126-947-11	ELECT 47uF	20% 35V
C621	1-162-995-11	CERAMIC CHIP 0.022uF	50V
C622	1-126-963-11	ELECT 4.7uF	20% 50V
C623	1-126-963-11	ELECT 4.7uF	20% 50V
C624	1-162-918-11	CERAMIC CHIP 18PF	5% 50V
C625	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C626	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C628	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C629	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C630	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C631	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C632	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C633	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C634	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C635	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C636	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C637	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C638	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C639	1-162-927-11	CERAMIC CHIP 100PF	5% 50V

Ref. No.	Part No.	Description	Remark
C640	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C641	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C642	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C643	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C644	1-126-964-11	ELECT 10uF	20% 50V
C646	1-104-662-91	ELECT 22uF	20% 25V
C648	1-104-662-91	ELECT 22uF	20% 25V
C649	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C650	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C651	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C653	1-162-959-11	CERAMIC CHIP 330PF	5% 50V
C656	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
		< CONNECTOR >	
CN601	1-568-844-11	CONNECTOR, FFC 29P	
CN602	1-784-735-11	CONNECTOR, FFC 13P	
CN603	1-784-778-11	CONNECTOR, FFC 17P	
		< DIODE >	
D603	8-719-988-61	DIODE 1SS355TE-17	
D604	8-719-988-61	DIODE 1SS355TE-17	
D605	8-719-988-61	DIODE 1SS355TE-17	
* D606	6-500-486-01	DIODE PTZ-TE25-11B	
D607	8-719-988-61	DIODE 1SS355TE-17	
D608	8-719-988-61	DIODE 1SS355TE-17	
D609	8-719-988-61	DIODE 1SS355TE-17	
D610	8-719-056-78	DIODE UDZ-TE-17-4.3B	
D611	8-719-988-61	DIODE 1SS355TE-17	
D613	8-719-988-61	DIODE 1SS355TE-17	
D614	8-719-988-61	DIODE 1SS355TE-17	
D615	8-719-988-61	DIODE 1SS355TE-17	
D616	8-719-988-61	DIODE 1SS355TE-17	
D620	8-719-988-61	DIODE 1SS355TE-17 (E51, MX, AUS)	
D621	8-719-988-61	DIODE 1SS355TE-17 (E51, MX, AUS)	
D622	8-719-988-61	DIODE 1SS355TE-17 (E)	
D623	8-719-988-61	DIODE 1SS355TE-17 (E51, MX, AUS)	
D626	8-719-988-61	DIODE 1SS355TE-17	
D628	8-719-988-61	DIODE 1SS355TE-17	
D630	8-719-988-61	DIODE 1SS355TE-17	
D631	8-719-978-33	DIODE DTZ-TT11-6.8B	
D632	8-719-083-57	DIODE UDZSTE-173.6B	
D633	8-719-988-61	DIODE 1SS355TE-17	
		< FILTER >	
FL601	1-518-977-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC601	6-804-127-01	IC LC876996A-52S5-E	
IC602	6-704-046-01	IC BU2099FV	
IC603	6-704-045-01	IC MM1574ANLE	
IC604	8-759-533-04	IC M62703ML-E1	
IC610	6-600-174-01	IC RPM7240-H4	
		< SHORT >	
JR601	1-216-296-11	SHORT CHIP	0
JR602	1-216-864-11	SHORT CHIP	0
JR603	1-216-864-11	SHORT CHIP	0
JR607	1-216-864-11	SHORT CHIP	0

PANEL

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
JR608	1-216-864-11	SHORT CHIP	0	R628	1-216-833-11	METAL CHIP	10K 5% 1/10W
JR609	1-216-864-11	SHORT CHIP	0	R629	1-216-150-11	RES-CHIP	10 5% 1/8W
JR610	1-216-296-11	SHORT CHIP	0	R632	1-216-809-11	METAL CHIP	100 5% 1/10W
JR611	1-216-864-11	SHORT CHIP	0	R633	1-216-809-11	METAL CHIP	100 5% 1/10W
JR612	1-216-864-11	SHORT CHIP	0	R634	1-216-809-11	METAL CHIP	100 5% 1/10W
JR614	1-216-864-11	SHORT CHIP	0	R635	1-216-809-11	METAL CHIP	100 5% 1/10W
JR615	1-216-864-11	SHORT CHIP	0	R636	1-216-833-11	METAL CHIP	10K 5% 1/10W
JR617	1-216-864-11	SHORT CHIP	0	R637	1-216-833-11	METAL CHIP	10K 5% 1/10W
JR621	1-216-864-11	SHORT CHIP	0	R638	1-216-809-11	METAL CHIP	100 5% 1/10W
JR622	1-216-864-11	SHORT CHIP	0	R639	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
JR624	1-216-864-11	SHORT CHIP	0	R640	1-216-834-11	METAL CHIP	12K 5% 1/10W
JR626	1-216-864-11	SHORT CHIP	0	R641	1-216-849-11	METAL CHIP	220K 5% 1/10W
JR627	1-216-864-11	SHORT CHIP	0	R642	1-216-817-11	METAL CHIP	470 5% 1/10W
JR628	1-216-864-11	SHORT CHIP	0	R643	1-216-819-11	METAL CHIP	680 5% 1/10W
JR629	1-216-864-11	SHORT CHIP	0	R644	1-216-821-11	METAL CHIP	1K 5% 1/10W
		< LED >		R645	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
LED601	6-500-641-01	DIODE SLI-325URC (I/⊕)		R646	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
LED602	6-500-810-01	DIODE SELU5923C-STP15 (i-BASS)		R647	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
		< TRANSISTOR >		R648	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
Q601	8-729-116-57	TRANSISTOR	2SB1068-K	R649	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
Q602	8-729-140-04	TRANSISTOR	2SB1116A-L	R650	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W
Q603	8-729-140-04	TRANSISTOR	2SB1116A-L	R651	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q604	8-729-119-76	TRANSISTOR	2SA1175-HFE	R653	1-216-817-11	METAL CHIP	470 5% 1/10W
Q605	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R654	1-216-819-11	METAL CHIP	680 5% 1/10W
Q609	8-729-027-55	TRANSISTOR	DTC143EKA-T146	R655	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q616	8-729-027-55	TRANSISTOR	DTC143EKA-T146	R656	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
		< RESISTOR >		R657	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
R601	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R658	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R602	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R659	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R603	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R660	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R604	1-216-841-11	METAL CHIP	47K 5% 1/10W	R661	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W
R605	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R662	1-216-833-11	METAL CHIP	10K 5% 1/10W
R606	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R664	1-216-817-11	METAL CHIP	470 5% 1/10W
R607	1-216-841-11	METAL CHIP	47K 5% 1/10W	R665	1-216-819-11	METAL CHIP	680 5% 1/10W
R608	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R666	1-216-821-11	METAL CHIP	1K 5% 1/10W
R609	1-216-837-11	METAL CHIP	22K 5% 1/10W	R667	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
R610	1-216-833-11	METAL CHIP	10K 5% 1/10W	R668	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
R611	1-216-837-11	METAL CHIP	22K 5% 1/10W	R669	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R612	1-216-833-11	METAL CHIP	10K 5% 1/10W	R670	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R613	1-216-837-11	METAL CHIP	22K 5% 1/10W	R671	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R614	1-216-837-11	METAL CHIP	22K 5% 1/10W	R672	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W
R615	1-216-837-11	METAL CHIP	22K 5% 1/10W	R673	1-216-833-11	METAL CHIP	10K 5% 1/10W
R616	1-216-833-11	METAL CHIP	10K 5% 1/10W	R674	1-216-835-11	METAL CHIP	15K 5% 1/10W
R617	1-216-837-11	METAL CHIP	22K 5% 1/10W	R675	1-216-835-11	METAL CHIP	15K 5% 1/10W
R618	1-216-833-11	METAL CHIP	10K 5% 1/10W	R676	1-216-835-11	METAL CHIP	15K 5% 1/10W
R619	1-216-837-11	METAL CHIP	22K 5% 1/10W	R677	1-216-864-11	SHORT CHIP	0
R620	1-216-837-11	METAL CHIP	22K 5% 1/10W	R678	1-216-845-11	METAL CHIP	100K 5% 1/10W
R621	1-216-833-11	METAL CHIP	10K 5% 1/10W	R679	1-216-172-00	RES-CHIP	82 5% 1/8W
R622	1-216-049-11	RES-CHIP	1K 5% 1/10W	R680	1-216-838-11	METAL CHIP	27K 5% 1/10W
R623	1-216-833-11	METAL CHIP	10K 5% 1/10W	R681	1-216-849-11	METAL CHIP	220K 5% 1/10W
R624	1-216-049-11	RES-CHIP	1K 5% 1/10W	R682	1-216-833-11	METAL CHIP	10K 5% 1/10W
R625	1-216-833-11	METAL CHIP	10K 5% 1/10W	R683	1-216-849-11	METAL CHIP	220K 5% 1/10W
R626	1-216-049-11	RES-CHIP	1K 5% 1/10W	R684	1-216-821-11	METAL CHIP	1K 5% 1/10W
R627	1-216-833-11	METAL CHIP	10K 5% 1/10W	R685	1-216-841-11	METAL CHIP	47K 5% 1/10W
				R686	1-216-841-11	METAL CHIP	47K 5% 1/10W
				R687	1-216-833-11	METAL CHIP	10K 5% 1/10W
				R688	1-216-817-11	METAL CHIP	470 5% 1/10W
				R689	1-216-829-11	METAL CHIP	4.7K 5% 1/10W

PANEL

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R690	1-216-809-11	METAL CHIP	100 5% 1/10W	R755	1-216-845-11	METAL CHIP	100K 5% 1/10W
R691	1-216-809-11	METAL CHIP	100 5% 1/10W	R756	1-216-845-11	METAL CHIP	100K 5% 1/10W
R692	1-216-809-11	METAL CHIP	100 5% 1/10W	R757	1-216-845-11	METAL CHIP	100K 5% 1/10W
R693	1-216-809-11	METAL CHIP	100 5% 1/10W	R758	1-216-845-11	METAL CHIP	100K 5% 1/10W
R694	1-216-809-11	METAL CHIP	100 5% 1/10W	R759	1-216-845-11	METAL CHIP	100K 5% 1/10W
R695	1-216-809-11	METAL CHIP	100 5% 1/10W	R760	1-216-845-11	METAL CHIP	100K 5% 1/10W
R696	1-216-809-11	METAL CHIP	100 5% 1/10W	R761	1-216-845-11	METAL CHIP	100K 5% 1/10W
R697	1-216-809-11	METAL CHIP	100 5% 1/10W	R762	1-216-845-11	METAL CHIP	100K 5% 1/10W
R701	1-216-833-11	METAL CHIP	10K 5% 1/10W	R763	1-216-845-11	METAL CHIP	100K 5% 1/10W
R702	1-216-797-11	METAL CHIP	10 5% 1/10W	R764	1-216-845-11	METAL CHIP	100K 5% 1/10W
R703	1-216-833-11	METAL CHIP	10K 5% 1/10W	R765	1-216-845-11	METAL CHIP	100K 5% 1/10W
R704	1-216-797-11	METAL CHIP	10 5% 1/10W	R766	1-216-845-11	METAL CHIP	100K 5% 1/10W
R705	1-216-809-11	METAL CHIP	100 5% 1/10W	R767	1-216-845-11	METAL CHIP	100K 5% 1/10W
R706	1-216-809-11	METAL CHIP	100 5% 1/10W	R768	1-216-845-11	METAL CHIP	100K 5% 1/10W
R707	1-216-182-00	RES-CHIP	220 5% 1/8W	R769	1-216-845-11	METAL CHIP	100K 5% 1/10W
R708	1-216-182-00	RES-CHIP	220 5% 1/8W	R770	1-216-845-11	METAL CHIP	100K 5% 1/10W
R710	1-216-833-11	METAL CHIP	10K 5% 1/10W	R771	1-216-841-11	METAL CHIP	47K 5% 1/10W
R711	1-216-833-11	METAL CHIP	10K 5% 1/10W	R772	1-216-821-11	METAL CHIP	1K 5% 1/10W
R712	1-216-797-11	METAL CHIP	10 5% 1/10W	R773	1-216-809-11	METAL CHIP	100 5% 1/10W
R713	1-216-797-11	METAL CHIP	10 5% 1/10W	R774	1-216-809-11	METAL CHIP	100 5% 1/10W
R714	1-216-809-11	METAL CHIP	100 5% 1/10W	R775	1-216-809-11	METAL CHIP	100 5% 1/10W
R715	1-216-805-11	METAL CHIP	47 5% 1/10W	R776	1-216-817-11	METAL CHIP	470 5% 1/10W
R716	1-216-837-11	METAL CHIP	22K 5% 1/10W	R777	1-216-809-11	METAL CHIP	100 5% 1/10W
R717	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R778	1-216-809-11	METAL CHIP	100 5% 1/10W
R718	1-216-837-11	METAL CHIP	22K 5% 1/10W	R779	1-216-809-11	METAL CHIP	100 5% 1/10W
R719	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R780	1-216-817-11	METAL CHIP	470 5% 1/10W
R723	1-216-809-11	METAL CHIP	100 5% 1/10W	R781	1-216-809-11	METAL CHIP	100 5% 1/10W
R725	1-216-809-11	METAL CHIP	100 5% 1/10W	R782	1-216-809-11	METAL CHIP	100 5% 1/10W
R726	1-216-833-11	METAL CHIP	10K 5% 1/10W	R783	1-216-809-11	METAL CHIP	100 5% 1/10W
R727	1-220-397-11	METAL CHIP	4.7M 5% 1/10W	R784	1-216-809-11	METAL CHIP	100 5% 1/10W
R728	1-220-397-11	METAL CHIP	4.7M 5% 1/10W	R785	1-216-809-11	METAL CHIP	100 5% 1/10W
R729	1-216-809-11	METAL CHIP	100 5% 1/10W	R786	1-216-833-11	METAL CHIP	10K 5% 1/10W
R730	1-216-809-11	METAL CHIP	100 5% 1/10W	R787	1-216-809-11	METAL CHIP	100 5% 1/10W
R731	1-216-809-11	METAL CHIP	100 5% 1/10W	R788	1-216-809-11	METAL CHIP	100 5% 1/10W
R732	1-216-853-11	METAL CHIP	470K 5% 1/10W	R789	1-216-841-11	METAL CHIP	47K 5% 1/10W
R733	1-216-809-11	METAL CHIP	100 5% 1/10W	R790	1-216-821-11	METAL CHIP	1K 5% 1/10W
R734	1-216-821-11	METAL CHIP	1K 5% 1/10W	R791	1-216-809-11	METAL CHIP	100 5% 1/10W
R735	1-216-821-11	METAL CHIP	1K 5% 1/10W	R792	1-216-809-11	METAL CHIP	100 5% 1/10W
R736	1-216-821-11	METAL CHIP	1K 5% 1/10W	R793	1-216-809-11	METAL CHIP	100 5% 1/10W
R737	1-216-845-11	METAL CHIP	100K 5% 1/10W	R794	1-216-809-11	METAL CHIP	100 5% 1/10W
R738	1-216-845-11	METAL CHIP	100K 5% 1/10W	R795	1-216-809-11	METAL CHIP	100 5% 1/10W
R739	1-216-845-11	METAL CHIP	100K 5% 1/10W	R796	1-216-809-11	METAL CHIP	100 5% 1/10W
R740	1-216-845-11	METAL CHIP	100K 5% 1/10W	R797	1-216-821-11	METAL CHIP	1K 5% 1/10W
R741	1-216-845-11	METAL CHIP	100K 5% 1/10W	R798	1-216-821-11	METAL CHIP	1K 5% 1/10W
R742	1-216-845-11	METAL CHIP	100K 5% 1/10W	R799	1-216-821-11	METAL CHIP	1K 5% 1/10W
R743	1-216-845-11	METAL CHIP	100K 5% 1/10W	R854	1-216-813-11	METAL CHIP	220 5% 1/10W
R744	1-216-845-11	METAL CHIP	100K 5% 1/10W	R863	1-216-170-00	RES-CHIP	68 5% 1/8W
R745	1-216-845-11	METAL CHIP	100K 5% 1/10W			< SWITCH >	
R746	1-216-845-11	METAL CHIP	100K 5% 1/10W	S601	1-762-875-21	SWITCH, KEYBOARD (I/⏻)	
R747	1-216-845-11	METAL CHIP	100K 5% 1/10W	S602	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)	
R748	1-216-845-11	METAL CHIP	100K 5% 1/10W	S603	1-762-875-21	SWITCH, KEYBOARD (ENTER)	
R749	1-216-845-11	METAL CHIP	100K 5% 1/10W	S604	1-762-875-21	SWITCH, KEYBOARD (DISC 1)	
R750	1-216-845-11	METAL CHIP	100K 5% 1/10W	S605	1-762-875-21	SWITCH, KEYBOARD (DISC 2)	
R751	1-216-845-11	METAL CHIP	100K 5% 1/10W	S606	1-762-875-21	SWITCH, KEYBOARD (DISC 3)	
R752	1-216-845-11	METAL CHIP	100K 5% 1/10W	S607	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP, EX-CHANGE)	
R753	1-216-845-11	METAL CHIP	100K 5% 1/10W	S608	1-762-875-21	SWITCH, KEYBOARD (▲)	
R754	1-216-845-11	METAL CHIP	100K 5% 1/10W	S609	1-762-875-21	SWITCH, KEYBOARD (SURROUND)	

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PANEL

POWER

Ref. No.	Part No.	Description	Remark
S610	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE/TUNING MODE)	
S621	1-762-875-21	SWITCH, KEYBOARD (CD)	
S622	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)	
S623	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)	
S624	1-762-875-21	SWITCH, KEYBOARD (VIDEO (MD))	
S625	1-762-875-21	SWITCH, KEYBOARD (P FILE)	
S626	1-762-875-21	SWITCH, KEYBOARD (TREBLE -)	
S627	1-762-875-21	SWITCH, KEYBOARD (TREBLE +)	
S628	1-762-875-21	SWITCH, KEYBOARD (MIDDLE -)	
S629	1-762-875-21	SWITCH, KEYBOARD (MIDDLE +)	
S630	1-762-875-21	SWITCH, KEYBOARD (BASS -)	
S641	1-762-875-21	SWITCH, KEYBOARD (▶▶ ALBUM +)	
S642	1-762-875-21	SWITCH, KEYBOARD (■)	
S643	1-762-875-21	SWITCH, KEYBOARD (◀◁ ▷)	
S644	1-762-875-21	SWITCH, KEYBOARD (■)	
S645	1-762-875-21	SWITCH, KEYBOARD (◀◀ ALBUM -)	
S646	1-762-875-21	SWITCH, KEYBOARD (REC/PAUSE/START)	
S647	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)	
S648	1-762-875-21	SWITCH, KEYBOARD (i-BASS)	
S649	1-762-875-21	SWITCH, KEYBOARD (PRESET EQ)	
S650	1-762-875-21	SWITCH, KEYBOARD (BASS +)	
S660	1-786-417-11	SW, RTRY RE012307PVB30F (VOLUME)	
S661	1-786-418-11	SWITCH, ROTARY (ENCODER) (AMS/TUNING)	
< VIBRATOR >			
X601	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)	
X602	1-795-004-21	VIBRATOR, CERAMIC (10MHz)	

A-4750-674-A	POWER BOARD, COMPLETE (E51, TW, AUS)		
A-4750-710-A	POWER BOARD, COMPLETE (E, SP)		

7-685-872-09	SCREW +BVTT 3X8 (S)		
< CAPACITOR >			
C402	1-162-306-11	CERAMIC	0.01uF 20% 16V
C403	1-137-749-11	MYLAR	0.1uF 100V
C404	1-137-749-11	MYLAR	0.1uF 100V
C405	1-127-813-11	ELECT	3300uF 20% 71V
(E, MX, SP)			
C405	1-135-517-11	ELECT	3300uF 20% 71V
(E51, TW, AUS)			
C406	1-127-813-11	ELECT	3300uF 20% 71V
(E, MX, SP)			
C406	1-135-517-11	ELECT	3300uF 20% 71V
(E51, TW, AUS)			
C407	1-162-306-11	CERAMIC	0.01uF 20% 16V
C408	1-162-306-11	CERAMIC	0.01uF 20% 16V
C411	1-162-306-11	CERAMIC	0.01uF 20% 16V
C441	1-126-964-11	ELECT	10uF 20% 50V
C442	1-126-964-11	ELECT	10uF 20% 50V
C443	1-162-294-31	CERAMIC	0.001uF 10% 50V
C444	1-162-294-31	CERAMIC	0.001uF 10% 50V
C445	1-162-282-31	CERAMIC	100PF 10% 50V
C446	1-162-282-31	CERAMIC	100PF 10% 50V
C447	1-126-965-11	ELECT	22uF 20% 50V
C448	1-126-965-11	ELECT	22uF 20% 50V

Ref. No.	Part No.	Description	Remark
C451	1-136-497-81	FILM	0.1uF 5% 50V
C452	1-136-497-81	FILM	0.1uF 5% 50V
C453	1-136-497-81	FILM	0.1uF 5% 50V
C454	1-136-497-81	FILM	0.1uF 5% 50V
C481	1-104-665-11	ELECT	100uF 20% 25V
C486	1-126-961-11	ELECT	2.2uF 20% 50V
C487	1-126-963-11	ELECT	4.7uF 20% 50V
C488	1-126-965-11	ELECT	22uF 20% 50V
C489	1-128-563-11	ELECT	100uF 20% 100V
C492	1-162-306-11	CERAMIC	0.01uF 20% 16V
< CONNECTOR >			
CN441	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P	
< DIODE >			
D401	6-500-360-01	DIODE D10XB20	
D441	8-719-991-33	DIODE 1SS133T-77	
D442	8-719-991-33	DIODE 1SS133T-77	
D443	8-719-991-33	DIODE 1SS133T-77	
D481	8-719-991-33	DIODE 1SS133T-77	
D482	8-719-991-33	DIODE 1SS133T-77	
D483	8-719-991-33	DIODE 1SS133T-77	
< EARTH TERMINAL >			
EP401	1-537-771-21	TERMINAL BOARD, GROUND	
EP402	1-537-771-21	TERMINAL BOARD, GROUND	
EP491	1-537-771-21	TERMINAL BOARD, GROUND	
< IC >			
IC441	6-600-221-01	IC STK403-130	
< TERMINAL BOARD >			
JK441	1-694-884-11	TERMINAL BOARD (4P) (SPEAKER IMPEDANCE USE 6-16Ω)	
< COIL >			
L441	1-416-615-11	COIL, AIR-CORE	
L442	1-416-615-11	COIL, AIR-CORE	
< TRANSISTOR >			
Q441	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA
Q442	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA
Q481	8-729-119-79	TRANSISTOR	2SC2785-FEK
Q482	8-729-119-79	TRANSISTOR	2SC2785-FEK
Q483	8-729-119-79	TRANSISTOR	2SC2785-FEK
Q484	8-729-119-79	TRANSISTOR	2SC2785-FEK
Q485	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q486	8-729-119-79	TRANSISTOR	2SC2785-FEK
Q487	8-729-119-79	TRANSISTOR	2SC2785-FEK
Q488	8-729-119-79	TRANSISTOR	2SC2785-FEK
Q489	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA
< RESISTOR >			
R401	1-247-879-91	CARBON	100K 5% 1/4W
R402	1-247-879-91	CARBON	100K 5% 1/4W
R407	1-260-316-51	CARBON	100 5% 1/2W

TRANS

Ref. No.	Part No.	Description	Remark
< CONNECTOR >			
CN904	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P (MX)	
CN904	1-568-106-11	PIN, CONNECTOR (3.96mm PITCH) 4P (EXCEPT MX)	
CN905	1-564-506-11	PLUG, CONNECTOR 3P	
* CN906	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
* CN907	1-764-333-11	PLUG, CONNECTOR 10P	
< DIODE >			
D906	8-719-983-79	DIODE MTZJ-T-72-27D	
D908	6-500-522-21	DIODE 10EDB40-TB3	
< TRANSISTOR >			
Q902	8-729-048-52	TRANSISTOR 2SA1932 (TP)	
< RESISTOR >			
R903	1-249-430-11	CARBON 12K 5% 1/4W	
R904	1-247-831-91	CARBON 1K 5% 1/4W	
△ R908	1-202-972-61	FUSIBLE 1 5% 1/4W F	

MISCELLANEOUS

7	1-775-251-11	WIRE (FLAT TYPE) (27 CORE)	
9	1-469-854-11	CORE, FERRITE	
52	1-796-486-71	DECK, MECHANICAL (CWM43FR34)	
106	1-773-288-11	WIRE (FLAT TYPE) (29 CORE)	
107	1-827-145-11	WIRE (FLAT TYPE) (13 CORE)	
108	1-773-048-11	WIRE (FLAT TYPE) (17 CORE)	
251	1-769-940-11	WIRE (FLAT TYPE) (11CORE)	
252	1-693-615-11	TUNER (FM/AM)	
253	1-763-117-13	FAN, DC	
△ 303	1-696-848-12	CORD, POWER (AUS)	
△ 303	1-777-071-83	CORD, POWER (E51, SP)	
△ 303	1-827-226-11	CORD, POWER (MX)	
△ 303	1-827-226-21	CORD, POWER (E)	
△ 303	1-827-597-31	CORD, POWER (TW)	
304	1-569-007-12	ADAPTOR, CONVERSION 2P (E)	
304	1-569-008-32	ADAPTOR, CONVERSION (E51, SP)	
308	1-400-285-11	F-BEAD, E2515MRT	
509	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
602	1-471-035-11	MAGNET ASSY	
△ 657	8-820-244-11	OPTICAL PICK-UP KSM-215DCP/C2NP	
658	1-827-992-11	WIRE (FLAT TYPE) (16 CORE)	
△ F904	1-576-655-12	FUSE, GLASS TUBE (DIA. 5) (8A/250V)	
△ F905	1-576-655-12	FUSE, GLASS TUBE (DIA. 5) (8A/250V)	
△ F906	1-533-470-12	FUSE, GLASS TUBE (DIA. 5) (T3.15AL/250V)	
△ F907	1-533-470-12	FUSE, GLASS TUBE (DIA. 5) (T3.15AL/250V)	
M741	A-4723-963-A	MOTOR ASSY, TABLE	
M751	A-4736-655-A	MOTOR ASSY, LOADING	
△ PT901	1-443-237-11	TRANSFORMER, POWER (EXCEPT MX)	
△ PT901	1-443-284-11	TRANSFORMER, POWER (MX)	
S101	1-771-853-11	SWITCH, DETECTION (LIMIT)	
S711	1-477-680-12	ENCODER, ROTARY (DISC TRAY ADDRESS DETECT)	

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

MEMO

