JAX-E3

SERVICE MANUAL

AEP Model

Ver 1.0 2003.06

- JAX-E3 is composed of the following models.
  As service manuals are issued for each component model, please refer to them.

COMPONENT MODEL NAME

	JAX-E3
COMPACT DISC DECK RECEIVER	CX-JE3
SPEAKER SYSTEM	SX-JE3

SPECIFICATIONS

Power requirements	230 V AC, 50/60 Hz
Power consumption	60 W
Power consumption in standby mode	With ECO mode on: 0.25 W With ECO mode off: 15 W
Dimensions (W x H x D)	280 x 330 x 392.5 mm
Weight	6.5 kg

Supplied accessories

Remote commander (1)
Batteries (2)
FM antenna (1)
AM antenna (1)

Specifications and external appearance are subject to change without notice.

ACCESSORIES

Part No.	Description	Remark
1-477-842-11	COMMANDER, STANDARD (RM-Z20004)	
1-501-374-92	ANTENNA, LOOP (AM)	
1-793-184-21	CONNECTOR (F TYPE ADAPTOR)	
4-245-998-01	COVER, BATTERY (for RM-Z20004)	
4-246-024-12	MANUAL, INSTRUCTION (ENGLISH, SPANISH, FRENCH, GERMAN, ITALIAN, RUSSIAN, CZECH, HUNGARIAN, POLISH)	

MINI Hi-Fi COMPONENT SYSTEM

9-961-003-01 **Sony Corporation**
2003F05-1 **Home Audio Company**

Published by Sony Engineering Corporation

REVISION HISTORY

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

Ver.	Date	Description of Revision
1.0	2003.06	New

CX-JE3

SERVICE MANUAL

AEP Model

Ver. 1.2 2005.05

CX-JE3 is the amplifier, CD player, tape deck and tuner section in JAX-E3.

CD Section	Model Name Using Similar Mechanism	CX-JS3
	CD Mechanism Type	CDM74S-K6BD71A
	Base Unit Name	BU-K6BD71A
	Optical Pick-up Block Name	KSM-213DCP
	Optical Pick-up Name	KSS-213D
Tape deck Section	Model Name Using Similar Mechanism	CX-JS3
	Tape Transport Mechanism Type	CWM43FF13

SPECIFICATIONS

TUNER

FM tuning range	87.5 MHz to 108 MHz
FM usable sensitivity (IHF)	16.8 dBf
FM antenna terminal	75 ohms (unbalanced)
AM tuning range	531 kHz to 1602 kHz
AM usable sensitivity	350 µV/m
AM antenna	Loop antenna

AMPLIFIER

Power output	Rated: 20 W + 20 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 25 W + 25 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) MUSIC POWER: 50 W + 50 W
Total harmonic distortion	0.08 % (16 W, 1 kHz, 6 ohms, DIN AUDIO)
Input	VIDEO/AUX: 400 mV
Outputs	SPEAKER: 6 ohms or more PHONES: 32 ohms or more

CASSETTE DECK

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 8 kHz
Recording system	AC bias
Heads	Deck A: playback x 1 Deck B: recording/playback x 1, erase x 1

CD PLAYER

Laser	Semiconductor laser (λ = 780 nm) Emission duration: continuous
D/A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)

GENERAL

Power requirements	230 V AC, 50/60 Hz
Power consumption	60 W
Power consumption in standby mode	With ECO mode on: 0.25 W With ECO mode off: 15 W
Dimensions (W x H x D)	280 x 330 x 392.5 mm
Weight	6.5 kg

Specifications and external appearance are subject to change without notice.

COPYRIGHT

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COMPACT DISC DECK RECEIVER

9-961-005-03
2005E05-1

Sony Corporation
Personal Audio Group
Published by Sony Engineering Corporation

Notes on chip component replacement

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

Flexible Circuit Board Repairing

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

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

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

The following caution label is located inside the unit.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ 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 viscou-s (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.

TABLE OF CONTENTS

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.

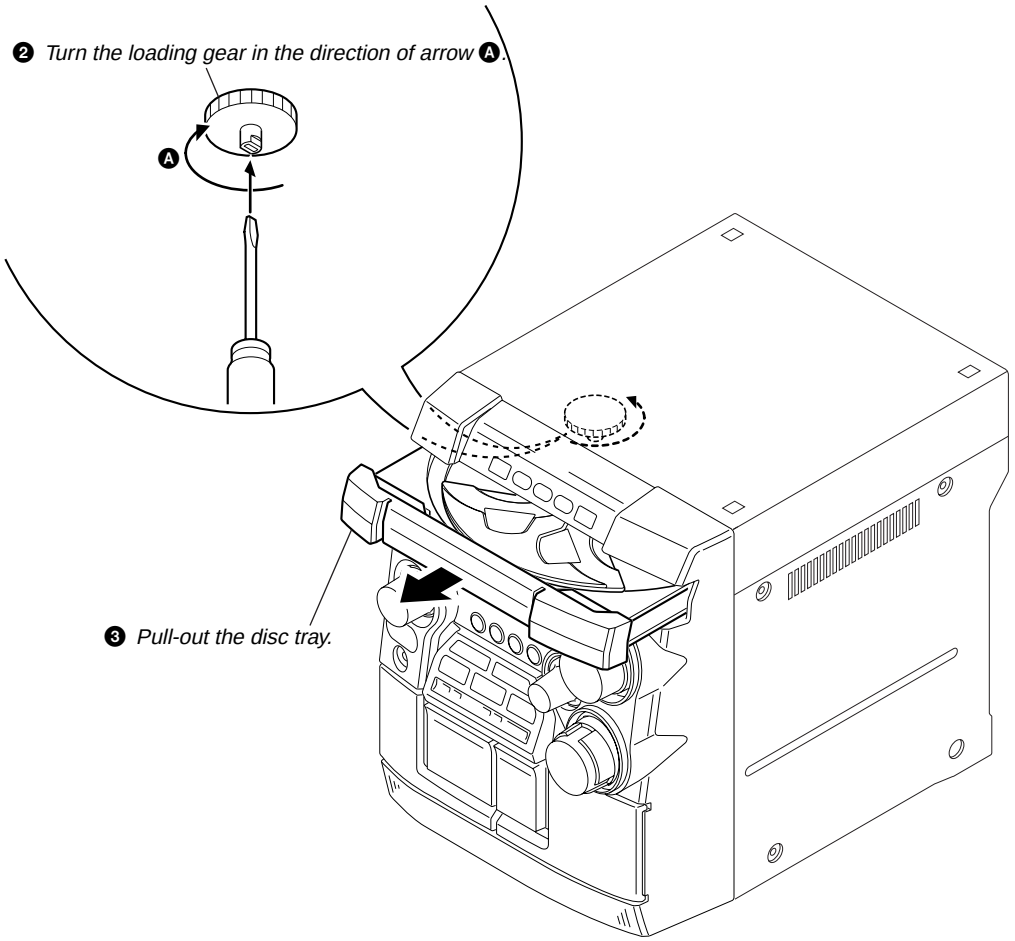
LASER DIODE AND FOCUS SEARCH OPERATION CHECK

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

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

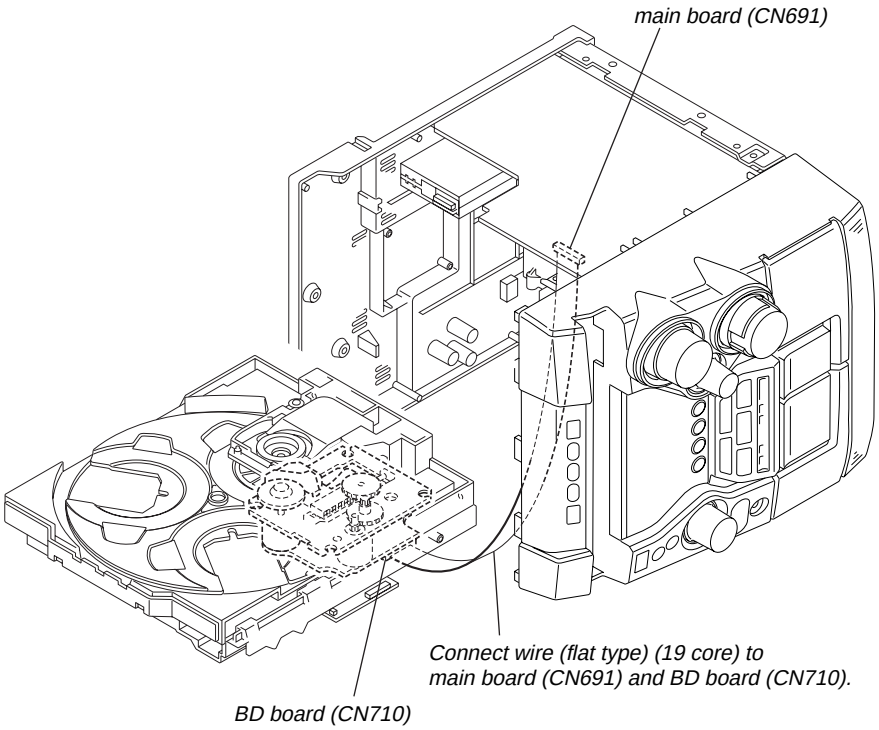
❶ *Remove the case (side-L).*

❷ *Turn the loading gear in the direction of arrow* Ⓐ.

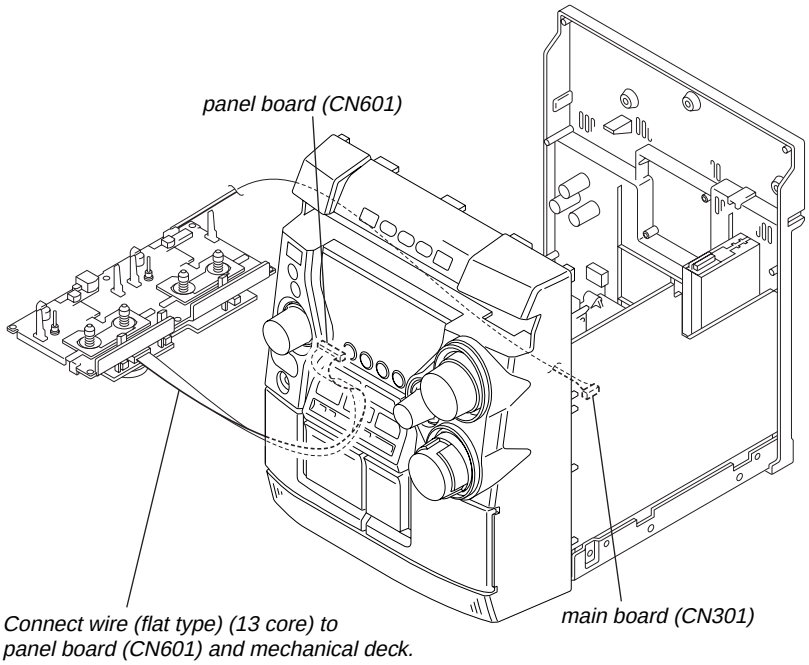


❸ *Pull-out the disc tray.*

SERVICE POSITION
– CD mechanism deck –



– Tape mechanism deck –

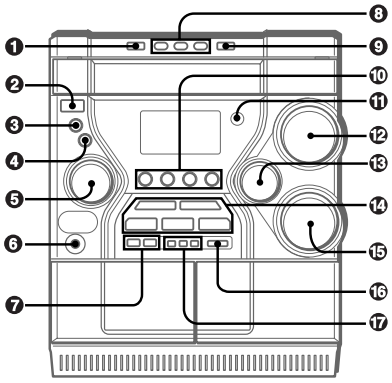


SECTION 2
GENERAL

This section is extracted from instruction manual.

• LOCATION OF CONTROLS

Main unit: front



❶ **DISC CHANGE**
Rotates the CD trays.

❷ **POWER ⏻STANDBY/ON**
Switches the unit on and off (standby).
The red indicator flashes when receiving a signal from the remote.

❸ **MODE**
Selects various modes (ECO and Repeat/Shuffle/Programmed playback, etc.) when used in combination with ENTER and MULTI JOG.

❹ **ENTER**
Fixes the modes and the time (ECO, Repeat/Shuffle/Programmed playback, clock, and timer, etc.) when used in combination with ENTER and MULTI JOG.

❺ **MULTI JOG**
When used in combination with ENTER and MULTI JOG,
CD: selects a track and Repeat/Shuffle/Programmed playback.
Tuner: selects a preset station.
Tape: specifies tape length.
Clock and Timer: sets the time.
i-Bass: selects a frequency range.
Spectrum analyzer, ECO and Dimmer: selects the mode.

❻ **PHONES jack**
Plug in here an optional headphones set with a mini stereo plug (ø3.5 mm). Speaker output is canceled.

❼ **SYNC DUB**
Starts dubbing a whole tape.
●REC/REC MUTING
Starts recording.

❽ **DISC DIRECT PLAY 1-3**
Selects a disc.

❾ **⏏OPEN/CLOSE**
Opens or closes the disc compartment.

❿ **TAPE A/B**
Selects Tape function, and deck A or B.
TUNER/BAND
Selects Tuner function and the radio band.
VIDEO/AUX
Selects the function of external equipment connected to VIDEO/AUX jacks.
CD
Selects CD function.

⓫ **Remote sensor**
Receives a signal from the remote.

⓬ **VOLUME**
Adjusts the volume.

⓭ **TREBLE**
Enhances high frequency sound.

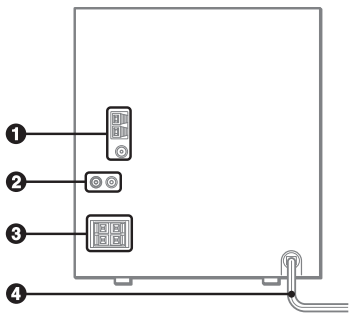
⓮ **►PLAY/PRESET**
When the unit is turned off: activates or deactivates DEMO.
CD and Tape: starts playback.
Tuner: tunes into a preset station.
■STOP/CLEAR
CD and Tape: stops playback.
Tuner: clears a station preset.
◄◄TUNING DOWN, ►►TUNING UP
CD: searches a track in fast forward or fast reverse playback when held down.
Tape: fast forwards or rewinds the tape.
Tuner: manually tunes down or up within the band.
❚❚PAUSE/SET
CD and Tape: pauses playback.
Tuner: stores the received station in to preset.

⓯ **BASS**
Emphasizes low frequency sound.

⓰ **i-Bass**
Produces rich and clear low frequency sound.

⓱ **DISPLAY**
Displays the time and the remaining time for CD.
ALBUM ▼, ▲
Selects a previous album or a succeeding album with MP3-CDs.
PTY
Displays a program type for RDS (Radio Data System)

Main unit: rear



❶ **AM LOOP, ᛉ FM 75 Ω terminals**
Plug in the supplied AM and FM antennas here.

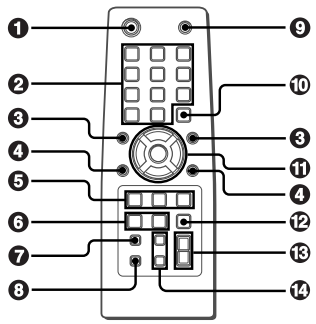
❷ **VIDEO/AUX jacks**
Accepts analog sound signals from external equipment. Connect using an optional connecting cable with RCA phono plugs (red plug to R jack, white plug to L jack). Refer also to the operating instructions of your equipment. To switch function to external input, press VIDEO/AUX.

Tip:
To change the displayed name for this function, turn the unit on, then hold down VIDEO/AUX and press POWER on the unit. Repeat the procedure to select "VIDEO", "AUX" or "TV".

❸ **▷ SPEAKER terminals**
Connect the speaker cord of the supplied front speakers here.

❹ **AC power cord**

Remote control



Buttons with the same or similar names with the main unit basically have the same function.

❶ **POWER**

❷ **1-0/10, +10**
CD: selects a CD track of the specified number.
Tuner: tunes in to the station with the specified preset number.

The numbered buttons take on these functions below when pressed with SHIFT held down:

EDIT
Enters AI Edit Recording or Programmed Edit Recording mode when pressed in stop mode.

BAND
Selects Tuner function and the radio band.

TAPE A/B

SPECTRUM
Changes the spectrum analyzer display.

TUNER MODE
Switches between stereo or monaural FM reception.

❸ **I◄◄, ►►I**
CD: selects a track.
Tuner: selects a preset station.
Tape: specifies tape length.
BASS and TREBLE: adjusts the level.
Clock and Timer: sets the time.

❹ **ALBUM ﹀, ﹀**
Selects a previous album or a succeeding album.

❺ **PLAY MODE**
Selects Shuffle or Programmed playback in CD function.

REPEAT
Enters CD repeat playback mode.

ENTER

❻ **CLOCK/TIMER/SET**
Enters timer setting mode.

CLOCK/TIMER/SELECT
Selects timer playback, timer recording or timer off.

❼ **DISPLAY**

❽ **SHIFT**
Hold down when pressing a numbered button to change its function to that printed above the number.
e.g.)
"Press **SHIFT+BAND** on the remote" indicates "Hold down SHIFT and press '2' (BAND)". Doing so makes you be able to select Tuner function and the radio band.

❾ **FUNCTION**
Switches the active function among CD, TAPE, TUNER and VIDEO (AUX or TV).

❿ **DISC SKIP**
Select a disc.

⓫ **►/◄►**
When the unit is turned off: activates or deactivates DEMO.
CD and Tape: starts playback.

■
CD and Tape: stops playback.

◄◄,►►
CD: searches a track in fast forward or fast reverse playback when held down.
Tape: fast forwards or rewinds the tape.
Tuner: manually tunes down or up within the band.

❚❚
CD and Tape: pauses playback.

⓬ **SLEEP**
Switches the sleep-timer on/off and selects the duration.

⓭ **VOLUME (+, –)**
Adjusts the volume.

⓮ **SOUND**
Selects BASS or TREBLE setting mode

CLEAR
Clears a track of the CD programmed playback and a Radio preset station.

Note

The button not explained above (**KARAOKE**) does not operate for this unit.

Setting the clock

Use the remote.

1 Press CLOCK/TIMER/SET.
Go to step 3 when the time appears and the 'hour' flashes.

2 Press I◄◄ or ►►I repeatedly until "CLOCK SET" appears in the display and then press ENTER.

3 Press I◄◄ or ►►I repeatedly to set the hour and then press ENTER.

4 Press I◄◄ or ►►I repeatedly to set the minute and then press ENTER.
The time display stops flashing and the clock starts from 00 seconds.

• MULTI JOG is also available in place of I◄◄ or ►►I.

To display the time
Press DISPLAY on the remote. The time will be displayed for 6 seconds.

If "- -:- -" appears when the unit is turned off
There has been a power interruption. Re-set the clock.

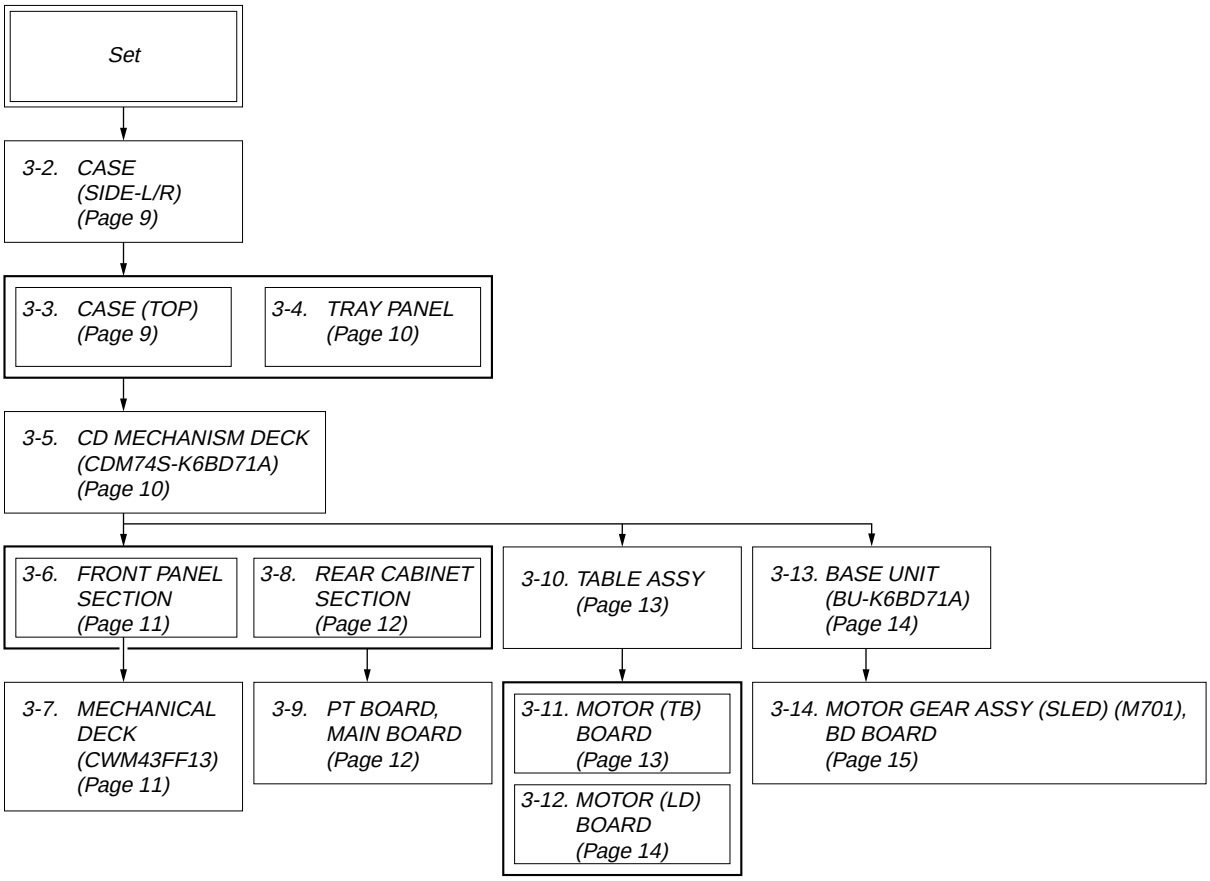
SECTION 3
DISASSEMBLY

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

3-1. DISASSEMBLY FLOW

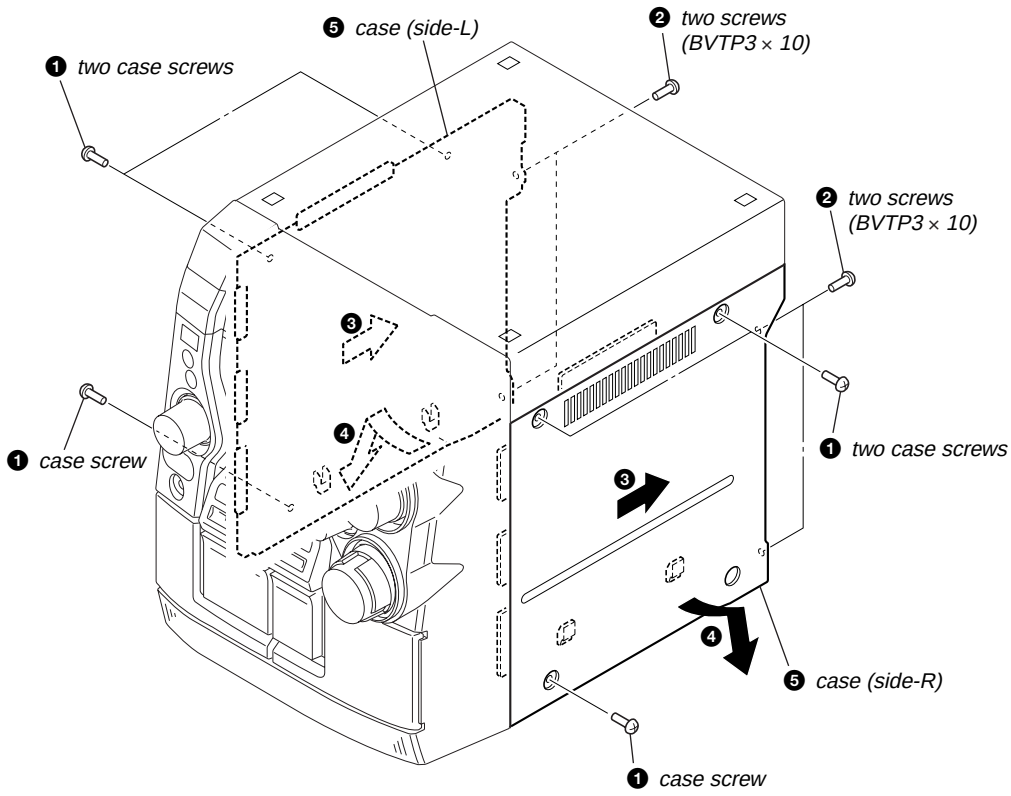
Note 1: *The process described in ⊟ can be performed in any order.*

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

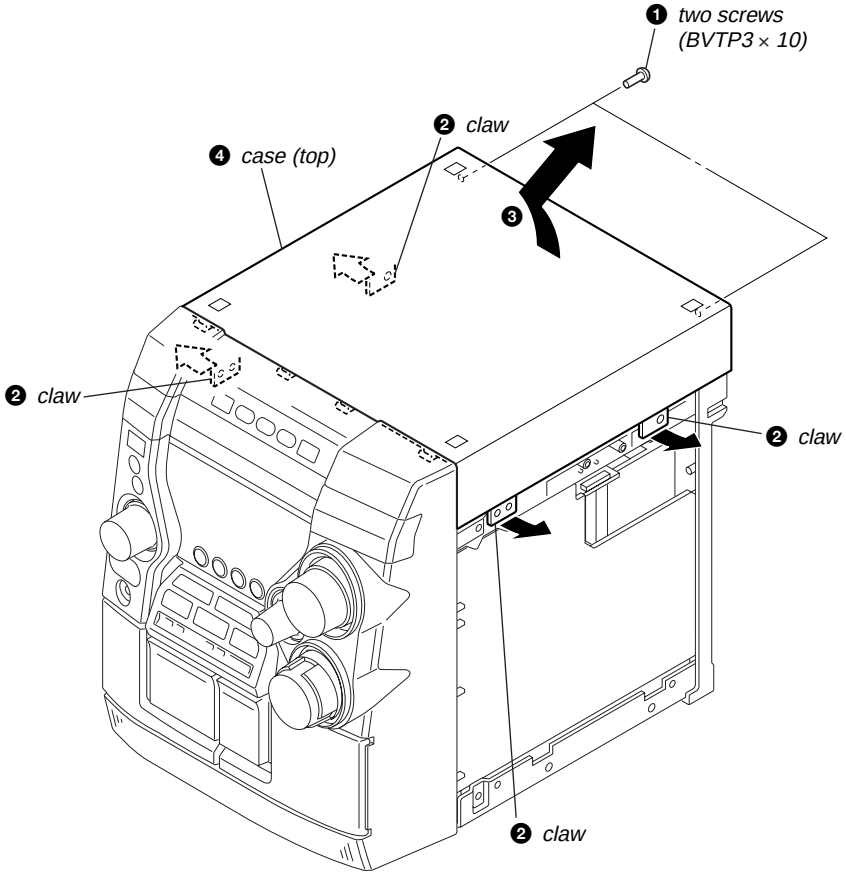


Note: Follow the disassembly procedure in the numerical order given.

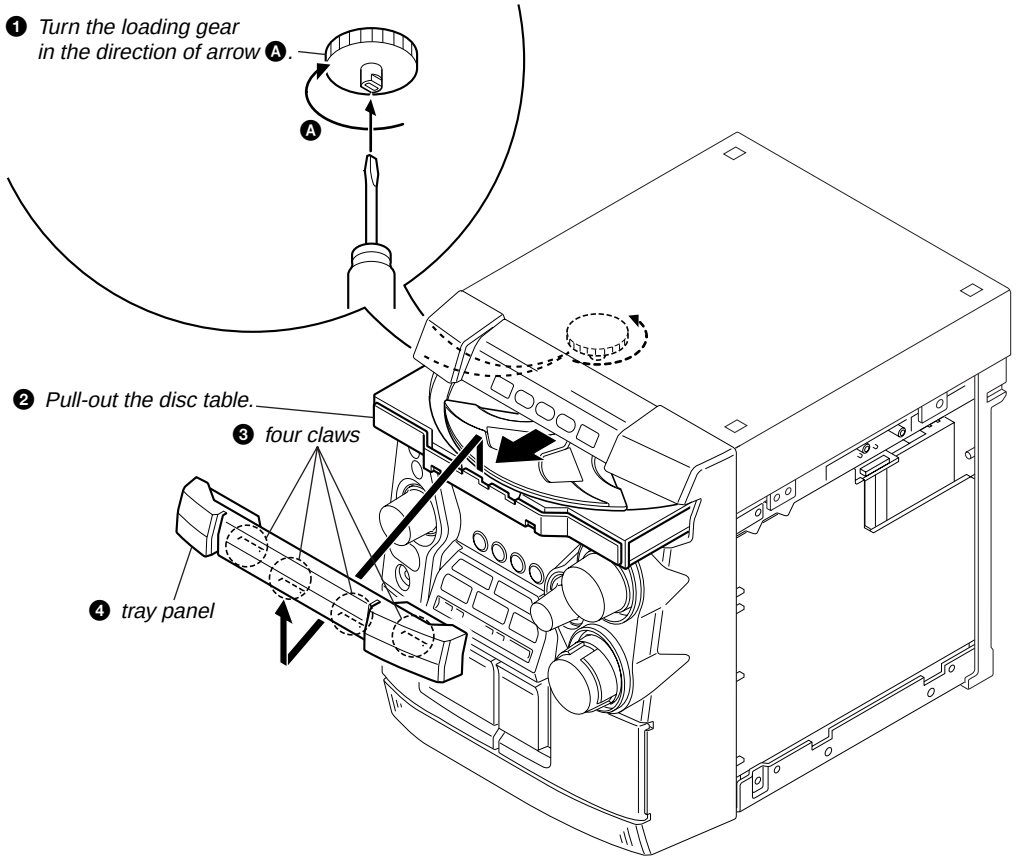
3-2. CASE (SIDE-L/R)



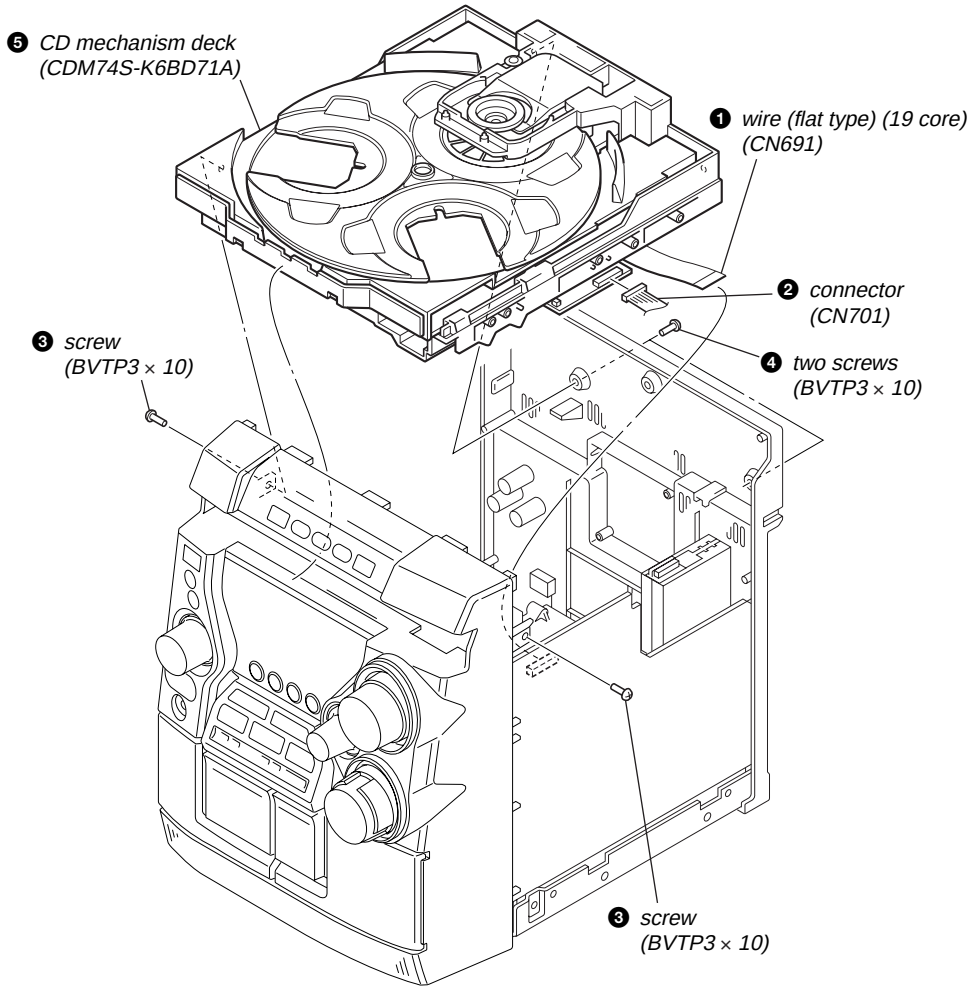
3-3. CASE (TOP)



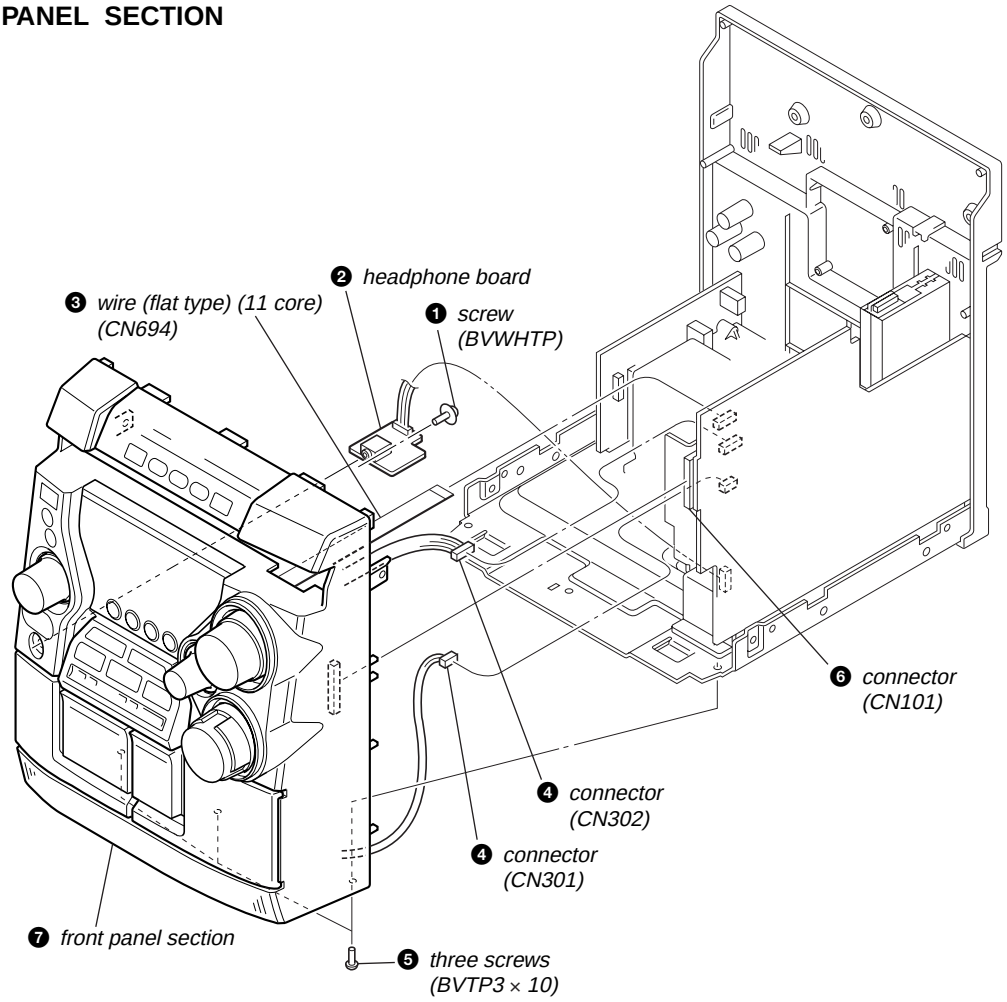
3-4. TRAY PANEL



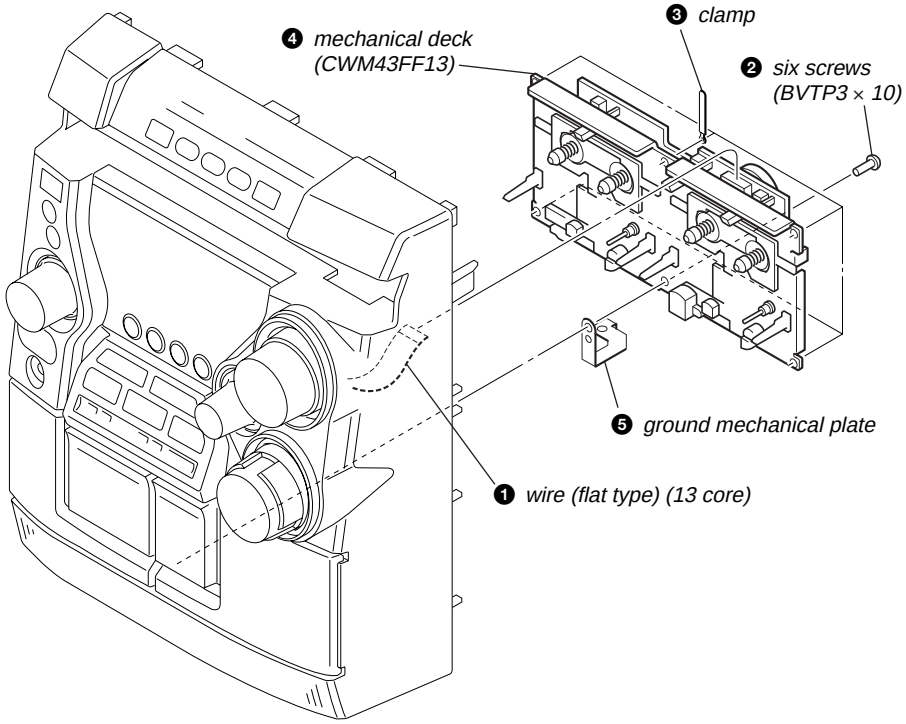
3-5. CD MECHANISM DECK (CDM74S-K6BD71A)



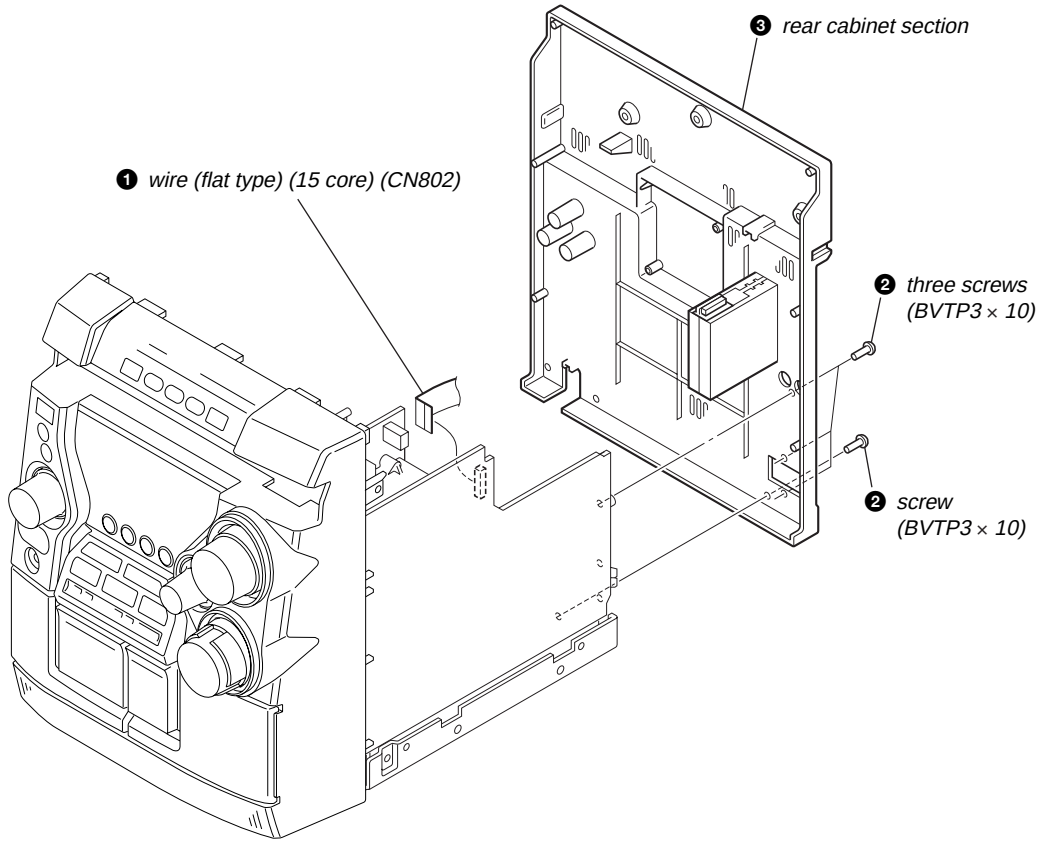
3-6. FRONT PANEL SECTION



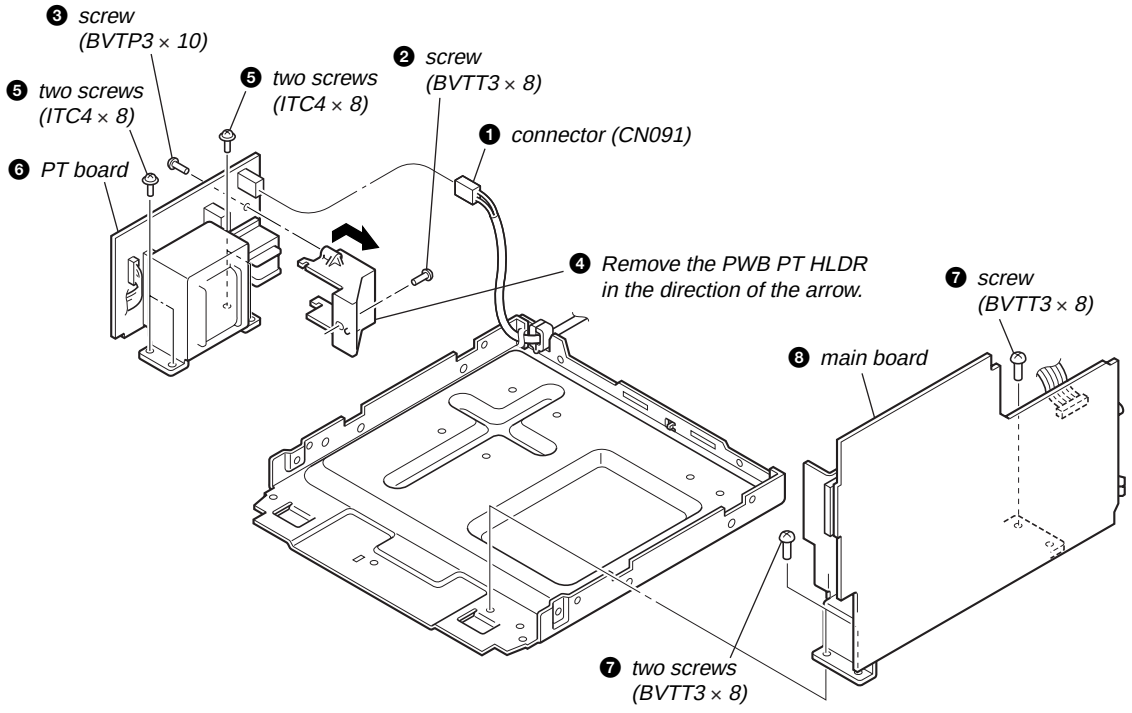
3-7. MECHANICAL DECK (CWM43FF13)



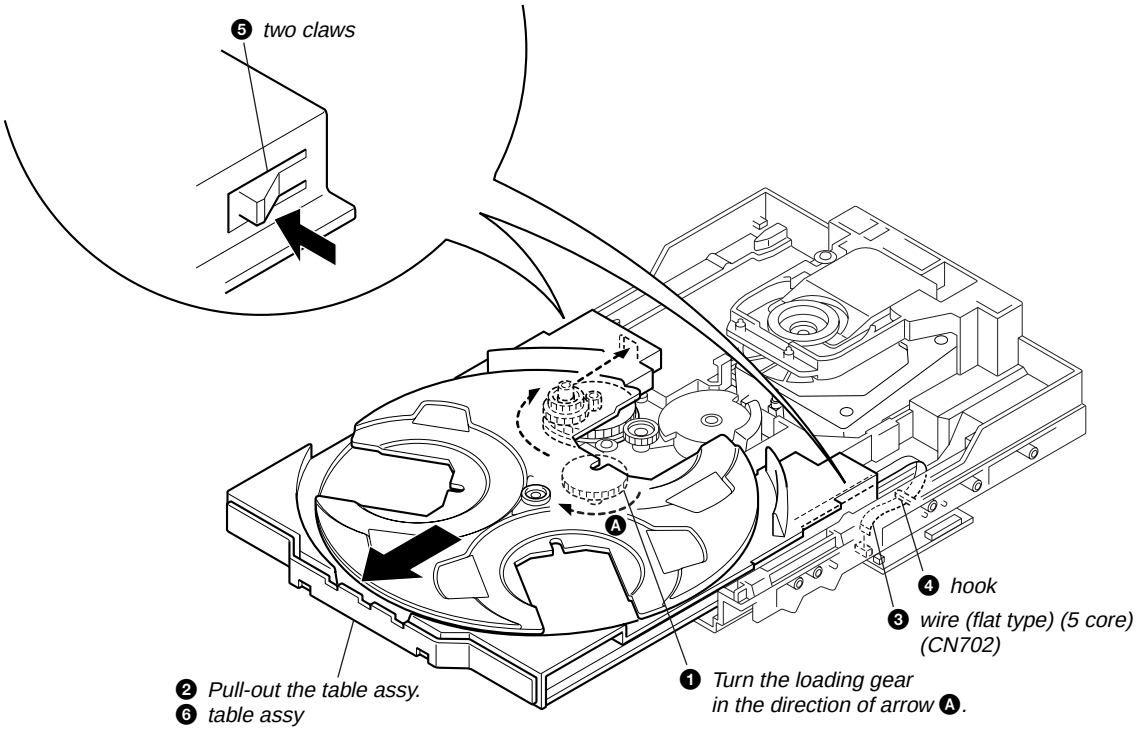
3-8. REAR CABINET SECTION



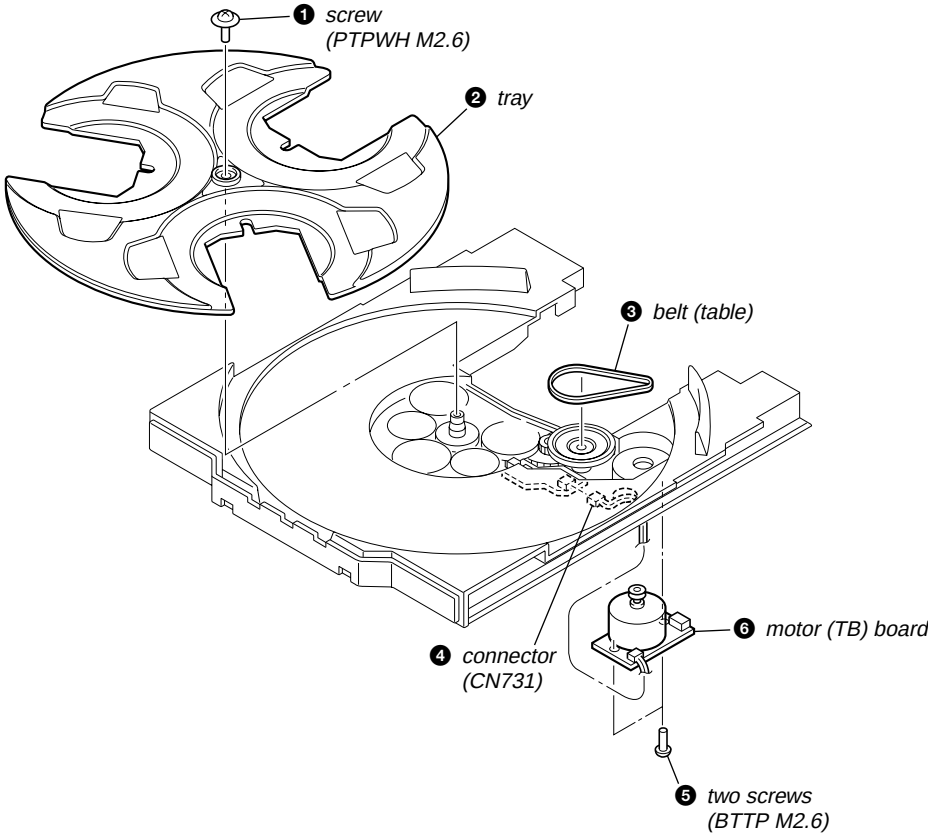
3-9. PT BOARD, MAIN BOARD



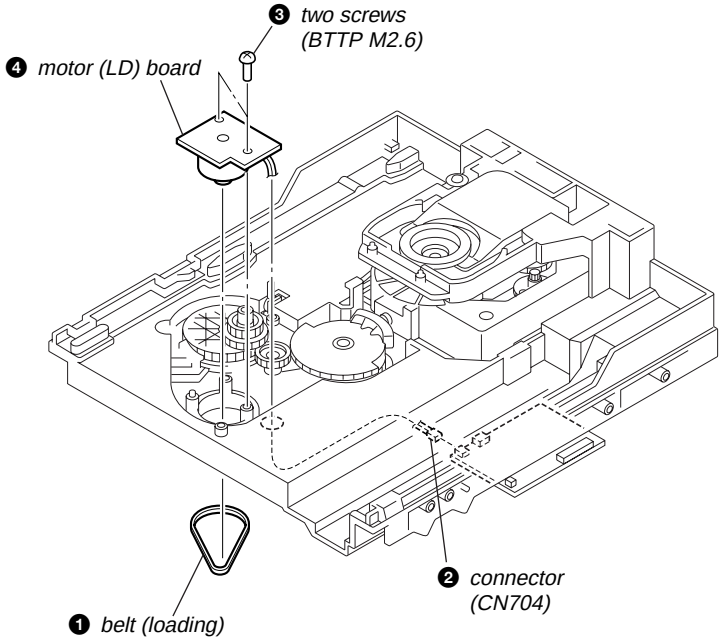
3-10. TABLE ASSY



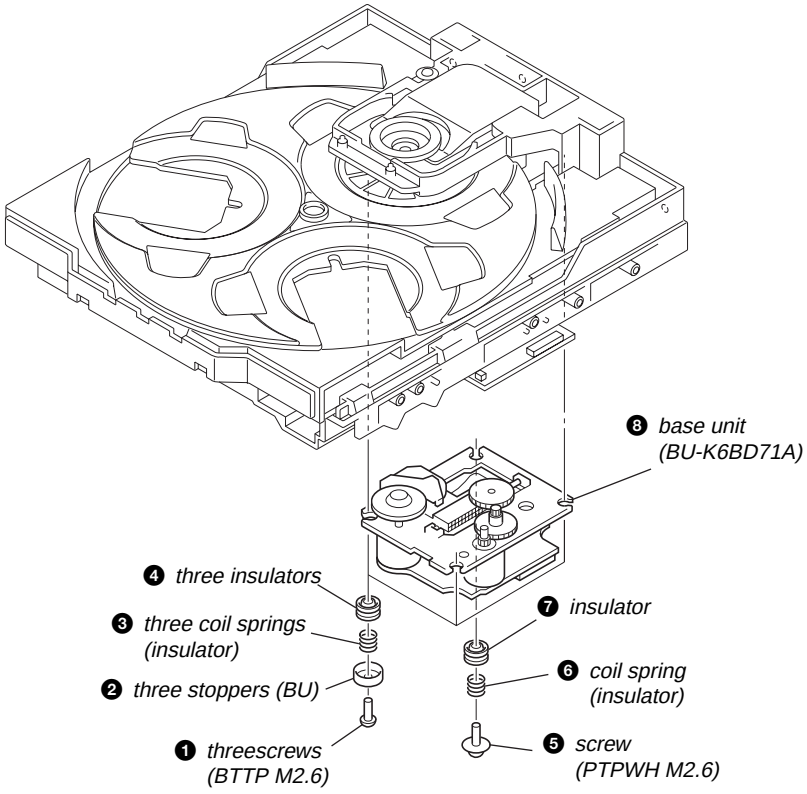
3-11. MOTOR (TB) BOARD



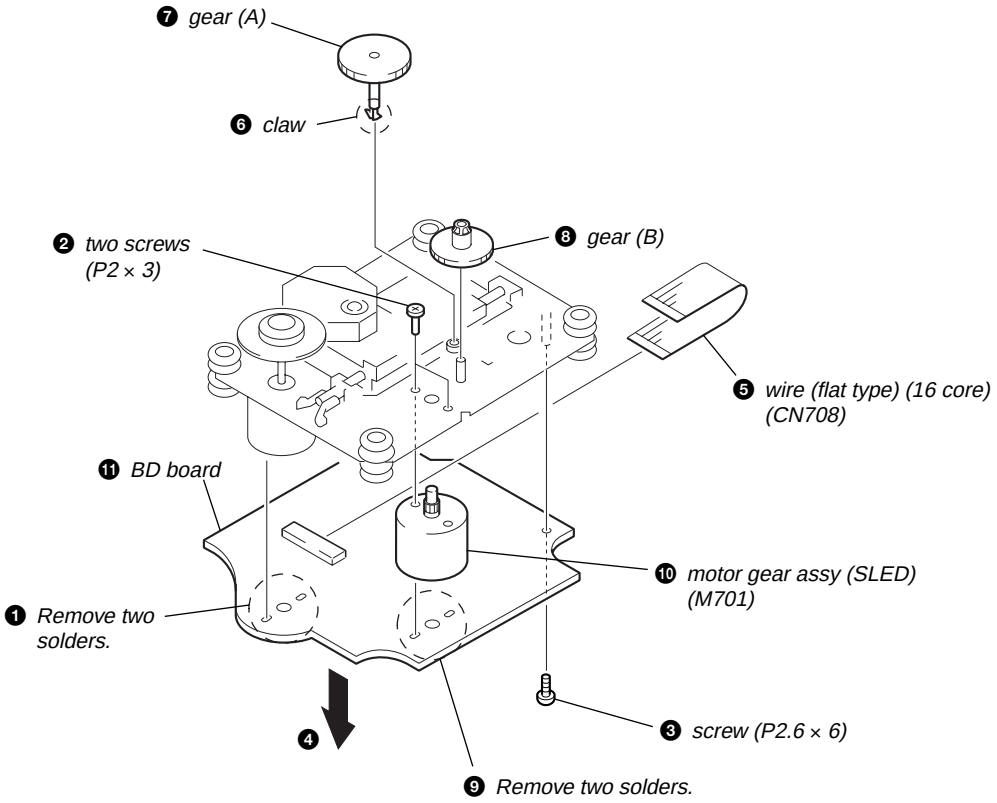
3-12. MOTOR (LD) BOARD



3-13. BASE UNIT (BU-K6BD71A)



3-14. MOTOR GEAR ASSY (SLED) (M701), BD BOARD



SECTION 4
TEST MODE

MC COLD RESET

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

Procedure:

1. In the standby status, while pressing the ■ button, press the POWER button.
2. The set is reset, then becomes standby status.

GC TEST MODE

Procedure:

1. Press the POWER button to turn the power on.
2. While pressing the ■ button, press the POWER button for 5 seconds.
3. It change displays in order of model type, version and suffix at 2 seconds interval, then the display is back to normal status.

AMP TEST MODE

Procedure:

1. In the status where AC plug is disconnected, while pressing the VIDEO/AUX button, connect the AC plug to turn the power on. Then enter the AMP test mode and display "AMP TEST".
2. If turn the VOLUME knob clockwise, it displays "VOLUME MAX", and if turn the knob counterclockwise, it displays "VOLUME 0".
3. If the TREBLE and BASS knobs are turned clockwise or counterclockwise, it change displays in order of "EQ MAX", "EQ MIN" and "EQ FLAT".
4. To release from this mode, disconnect the AC plug and turn the power off.

DISC TRAY LOCK

Procedure:

1. Press the POWER button to turn the power on.
2. While pressing the ■ button, press the ⏏ OPEN/CLOSE button for 5 seconds.
3. The message "LOCKED" is displayed and the tray is locked. (Even if exiting from this mode, the tray is still locked)
4. To release this lock, while pressing the ■ button, press the ⏏ OPEN/CLOSE button for 5 again.
5. The message "UNLOCKED" is displayed and the tray is unlocked.

CD REPEAT 5 LIMIT CANCEL MODE

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

Procedure:

1. Press the POWER button to turn the power on.
2. In the repeat on status, while pressing the ■ button, press the CD button to enter the CD repeat 5 limit cancel mode and repeat mark blinks on the fluorescent indicator tube.
3. To release this mode, press the POWER button to turn the power off.

FUNCTION CHANGE MODE

- Select either TV, VIDEO or AUX (MD) of the external function input.

Procedure:

1. Press the POWER button to turn the power on.
2. While pressing the VIDEO/AUX button, press the POWER button.
3. Each time this operation is operated, it change displays in order of "TV", "VIDEO" and "AUX".

CD TEST MODE

- This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pickup.

Procedure:

1. In the status where AC plug is disconnected, while pressing the CD button, connect the AC plug to turn the power on.
2. When enter this mode, it displays “CD TEST” and few seconds later, all segments turn on of the fluorescent indicator tube.
3. To release from this mode, disconnect the AC plug and turn the power off.

In this mode, it operates as following table.

Button	Operation	Purpose of use
▶▶	Move the pick-up to outside track	Sled circuit check
◀◀	Move the pick-up to inside track	Tracking circuit check Mechanism operation check Optical pick-up check
▶	Playback a CD If it cannot focus on, it continuous focus search	Servo block check
■	When playback a CD: stop playback When stop a CD: display “READING” (blink) continuous laser diode on continuous focus search (not made focus on)	APC circuit check Laser current measure Focus search waveform check Tracking balance check
❚❚	Pause, Tracking servo off (ignore CLV error)	

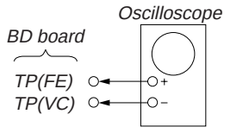
SECTION 5
ELECTRICAL ADJUSTMENTS

CD SECTION

Note:

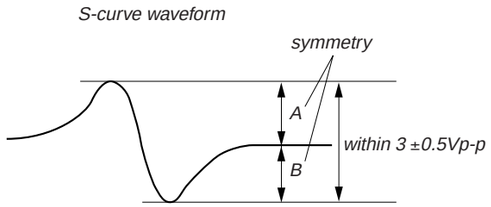
1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal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

S-CURVE CHECK



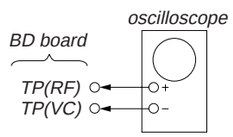
Procedure :

1. Connect an oscilloscope to TP (FE) and TP (VC).
2. 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.

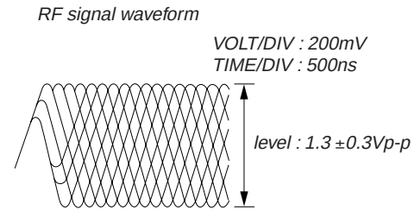
RF LEVEL CHECK



Procedure :

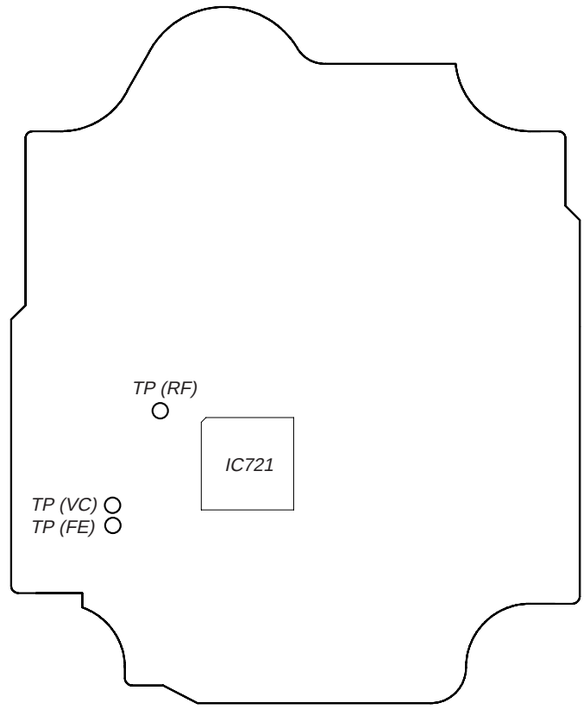
1. Connect an oscilloscope to TP (RF) and TP (VC).
2. Turn the power on.
3. Load a disc (YEDS-18) and playback.
4. Confirm that oscilloscope waveform is clear and check if RF signal level is correct or not.

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



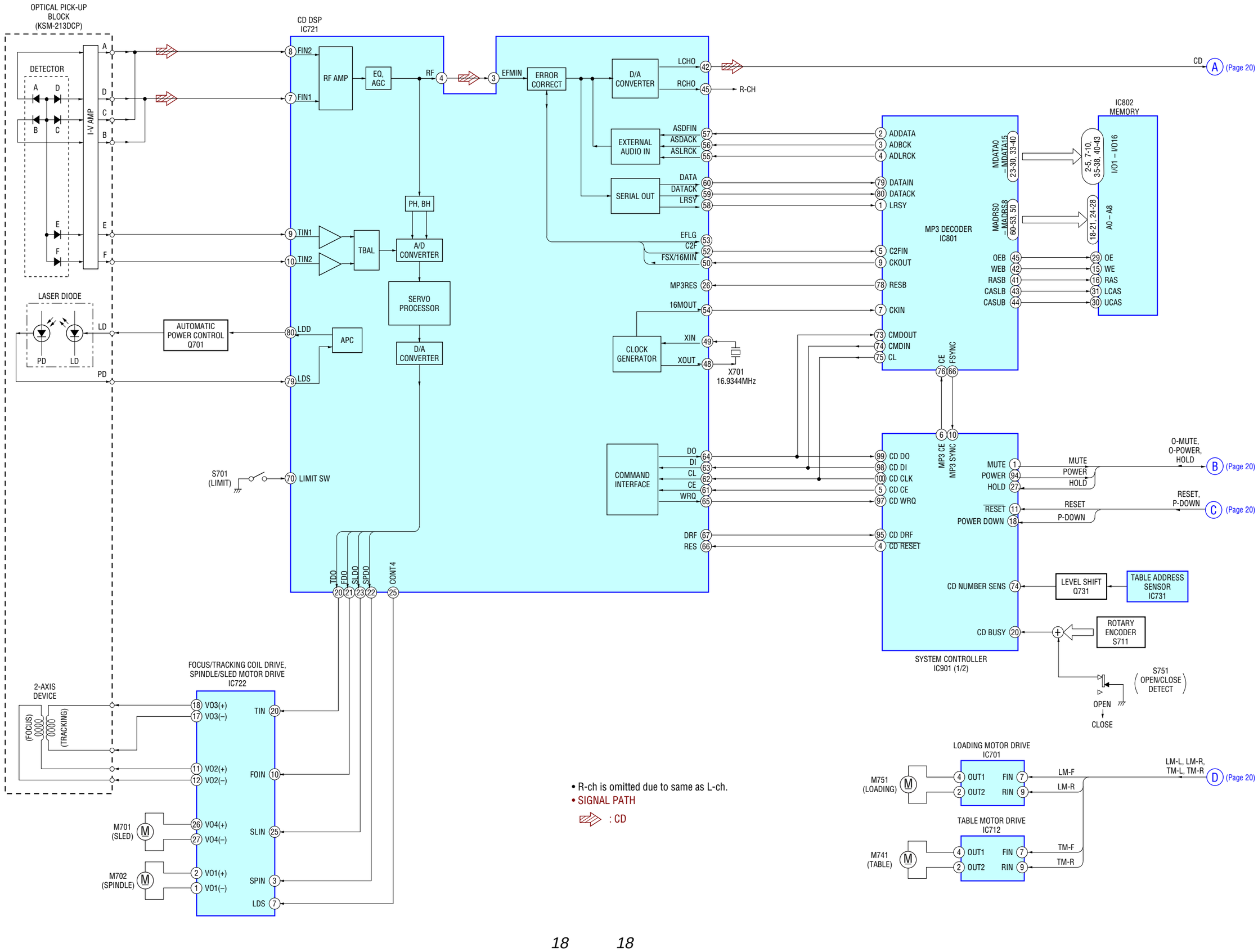
Connecting Location: BD board

– BD Board (Conductor side) –

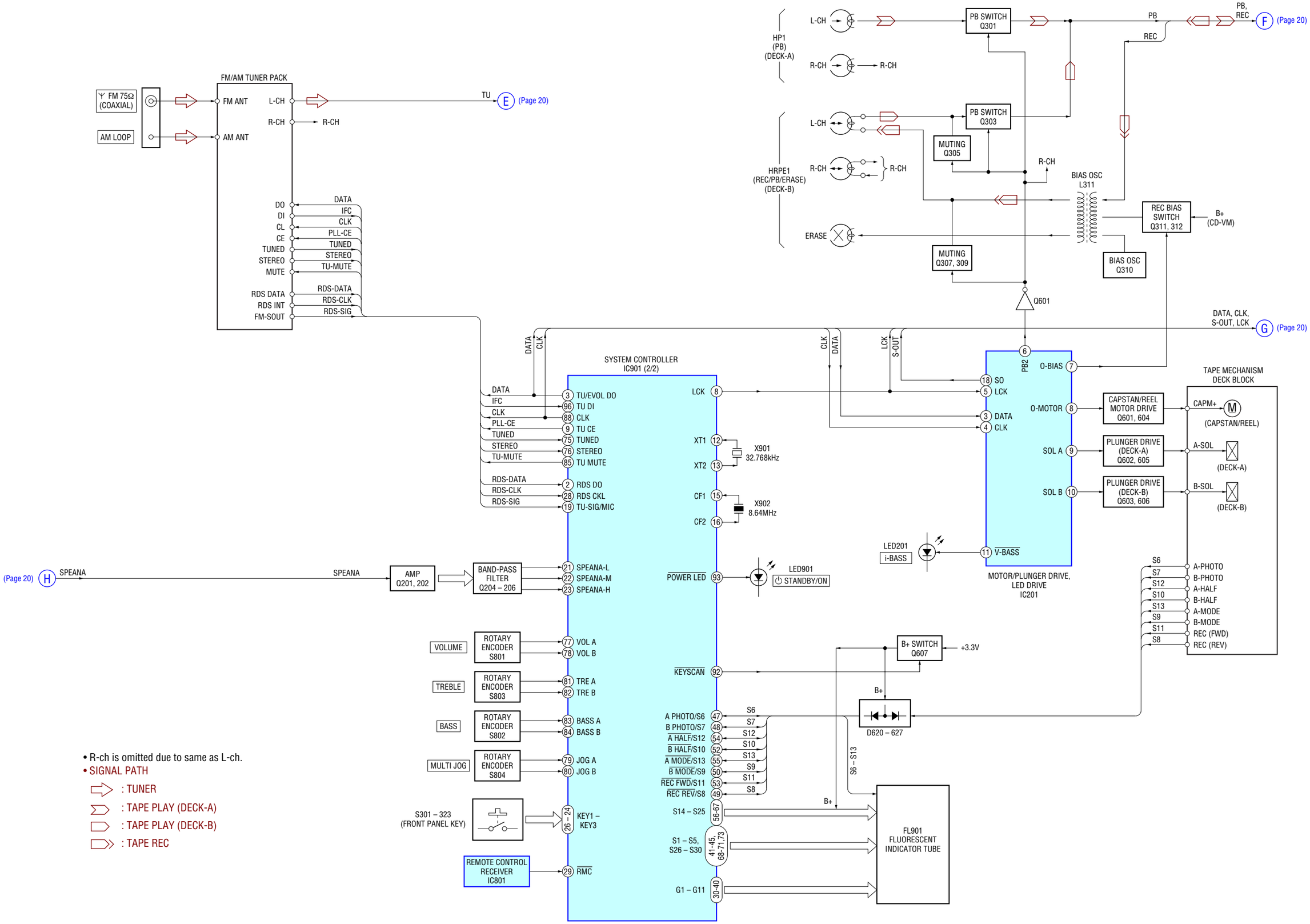


SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM – CD Section –

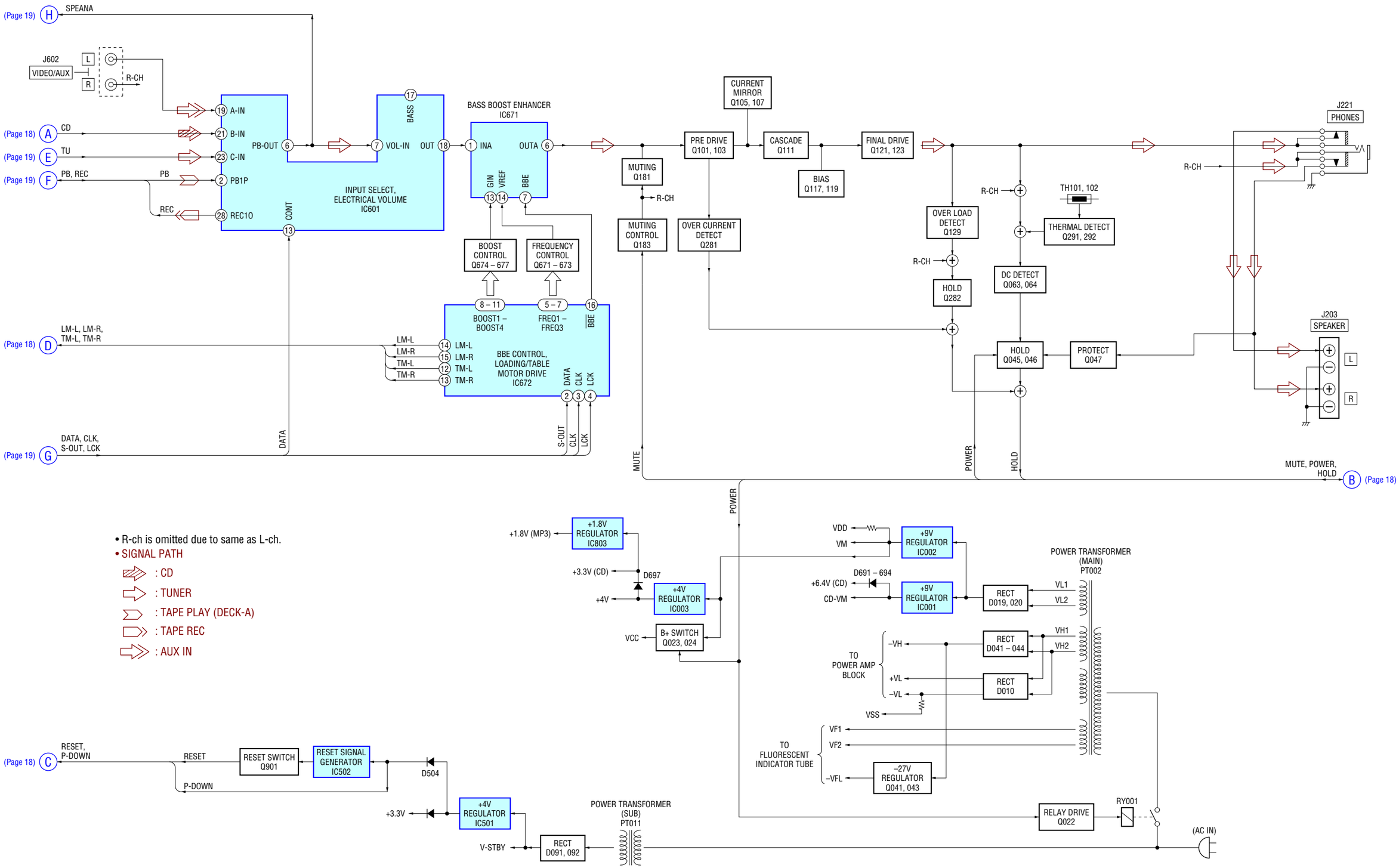


6-2. BLOCK DIAGRAM – TUNER/TAPE/PANEL Section –



- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : TUNER
  - : TAPE PLAY (DECK-A)
  - : TAPE PLAY (DECK-B)
  - : TAPE REC

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



- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : CD
  - : TUNER
  - : TAPE PLAY (DECK-A)
  - : TAPE REC
  - : AUX IN

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

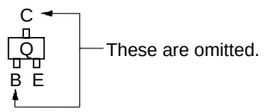
Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ▬ : Pattern from the side which enables seeing.

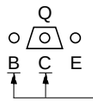
(The other layers' patterns are not indicated.)

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

- Indication of transistor.



These are omitted.



These are omitted.

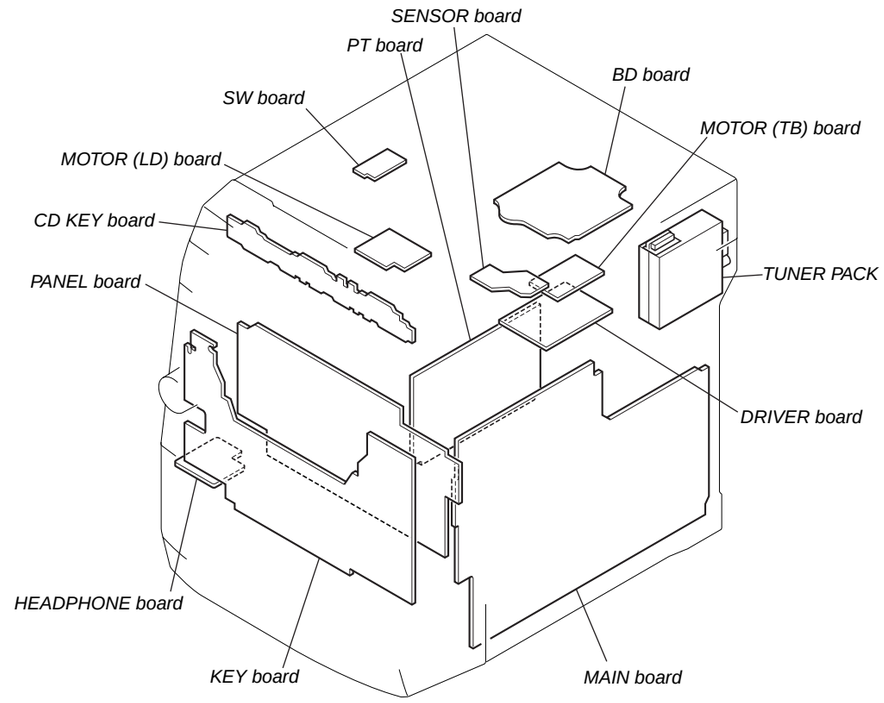
Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : panel designation.
- ▬ : B+ Line.

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

- ▬ ▬ ▬ : 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
  ✻ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). 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

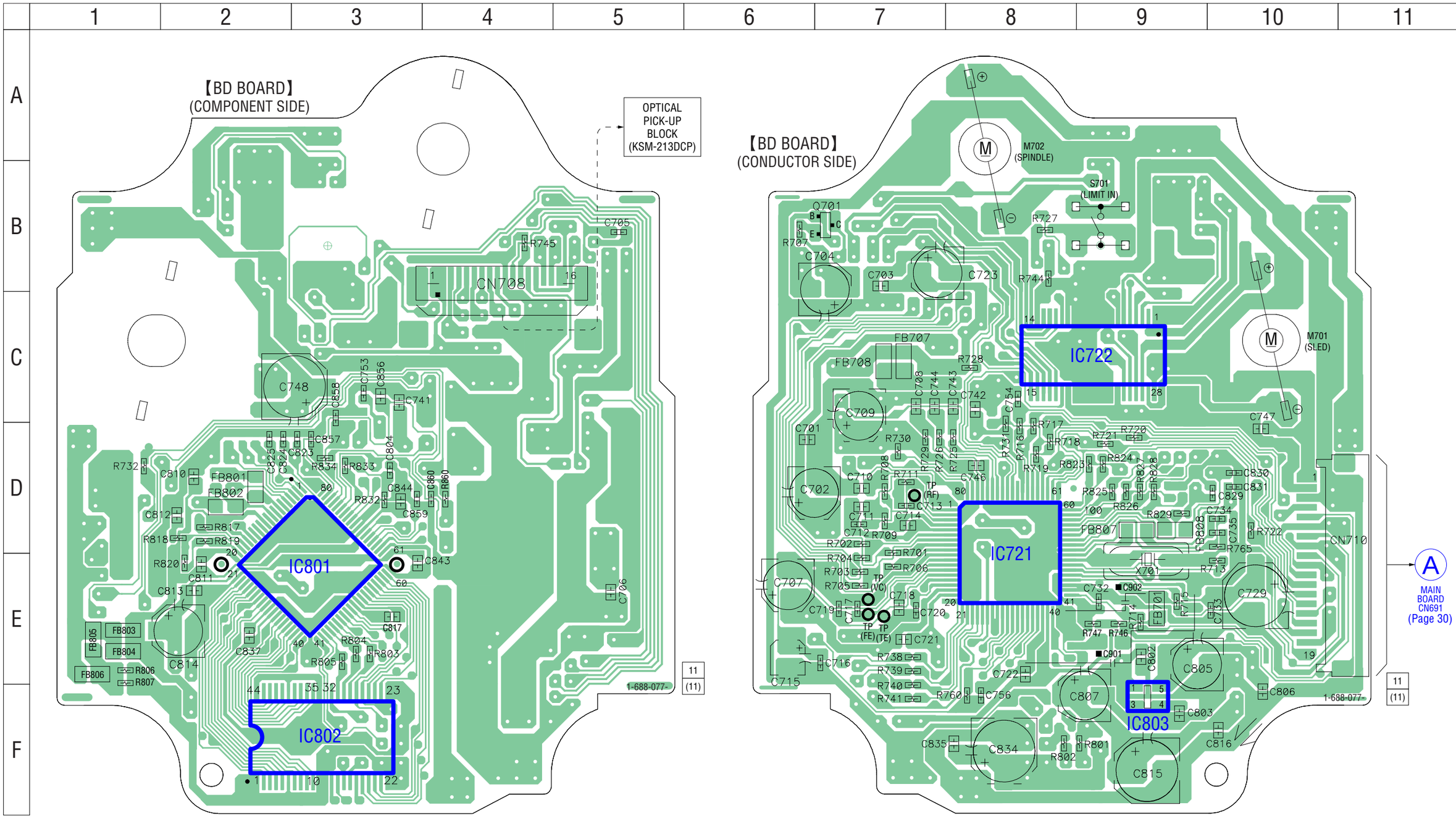
- **Circuit Boards Location**



6-5. PRINTED WIRING BOARD – BD Section –

• See page 21 for Circuit Boards Location.

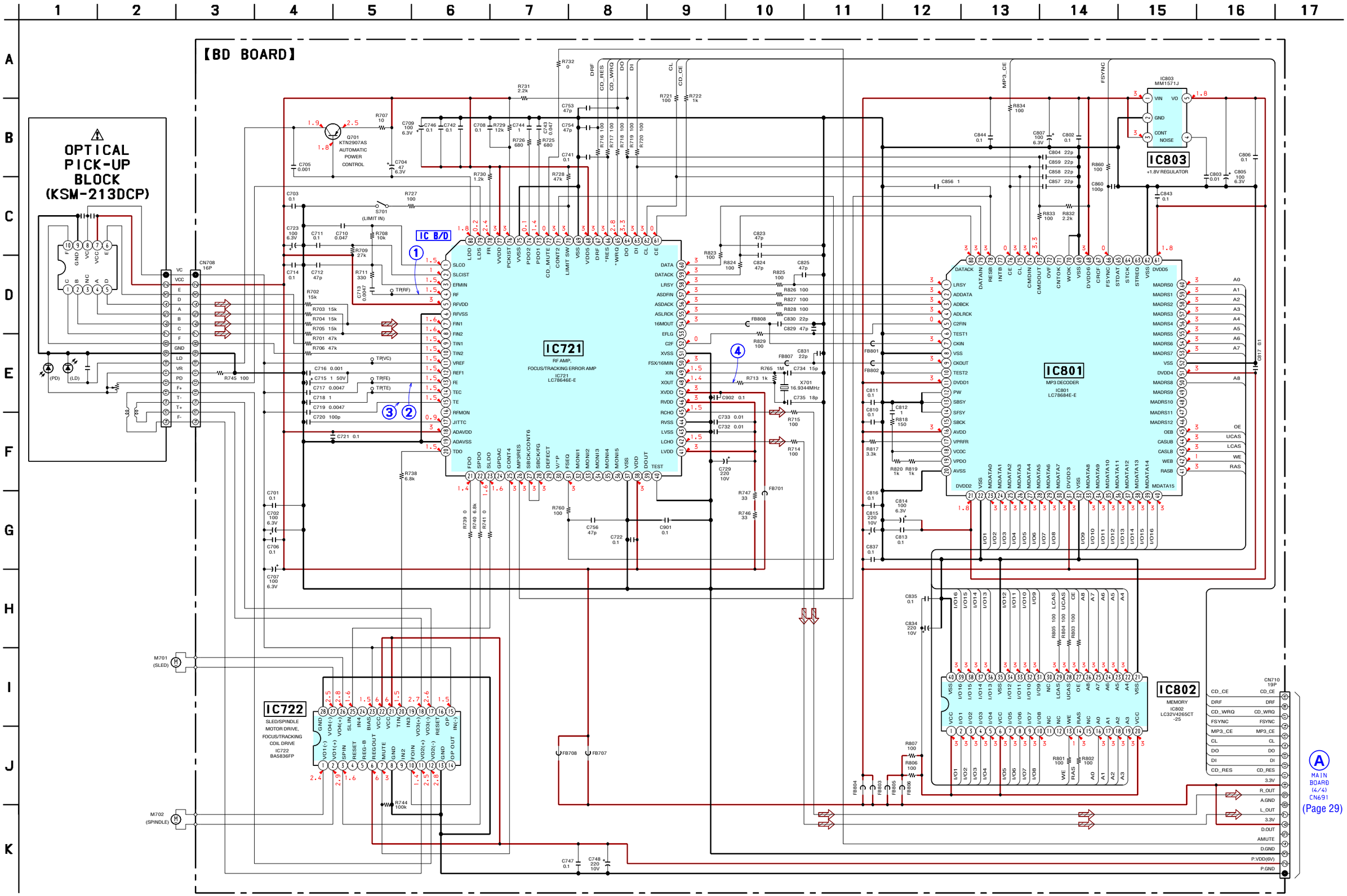
:Uses unleaded solder.



• **Semiconductor Location**

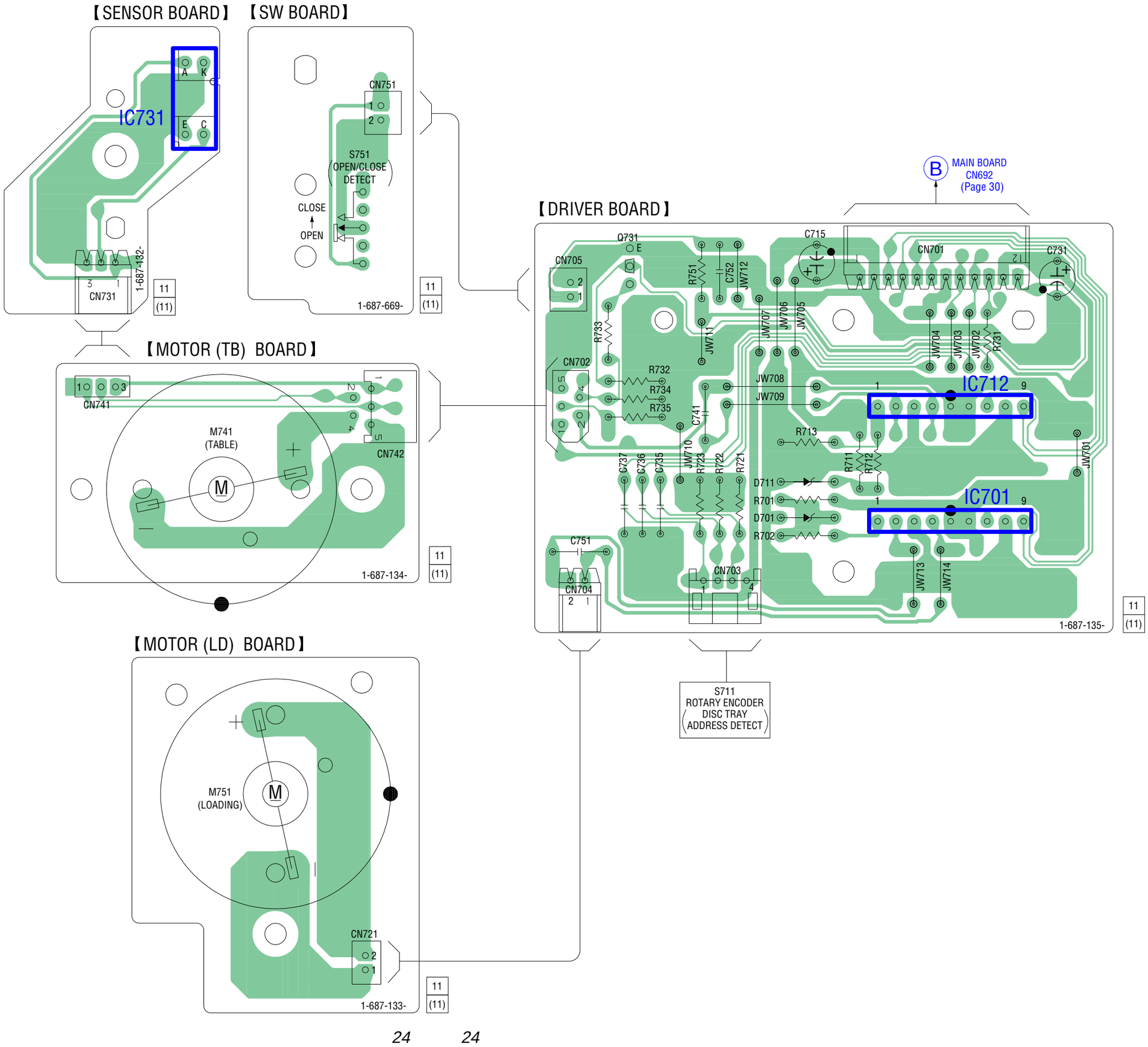
Ref. No.	Location
IC721	D-8
IC722	C-9
IC801	E-3
IC802	F-3
IC803	F-9
Q701	B-7

6-6. SCHEMATIC DIAGRAM – BD Section – • See page 38 for IC Block Diagram. • See page 38 for Waveforms.

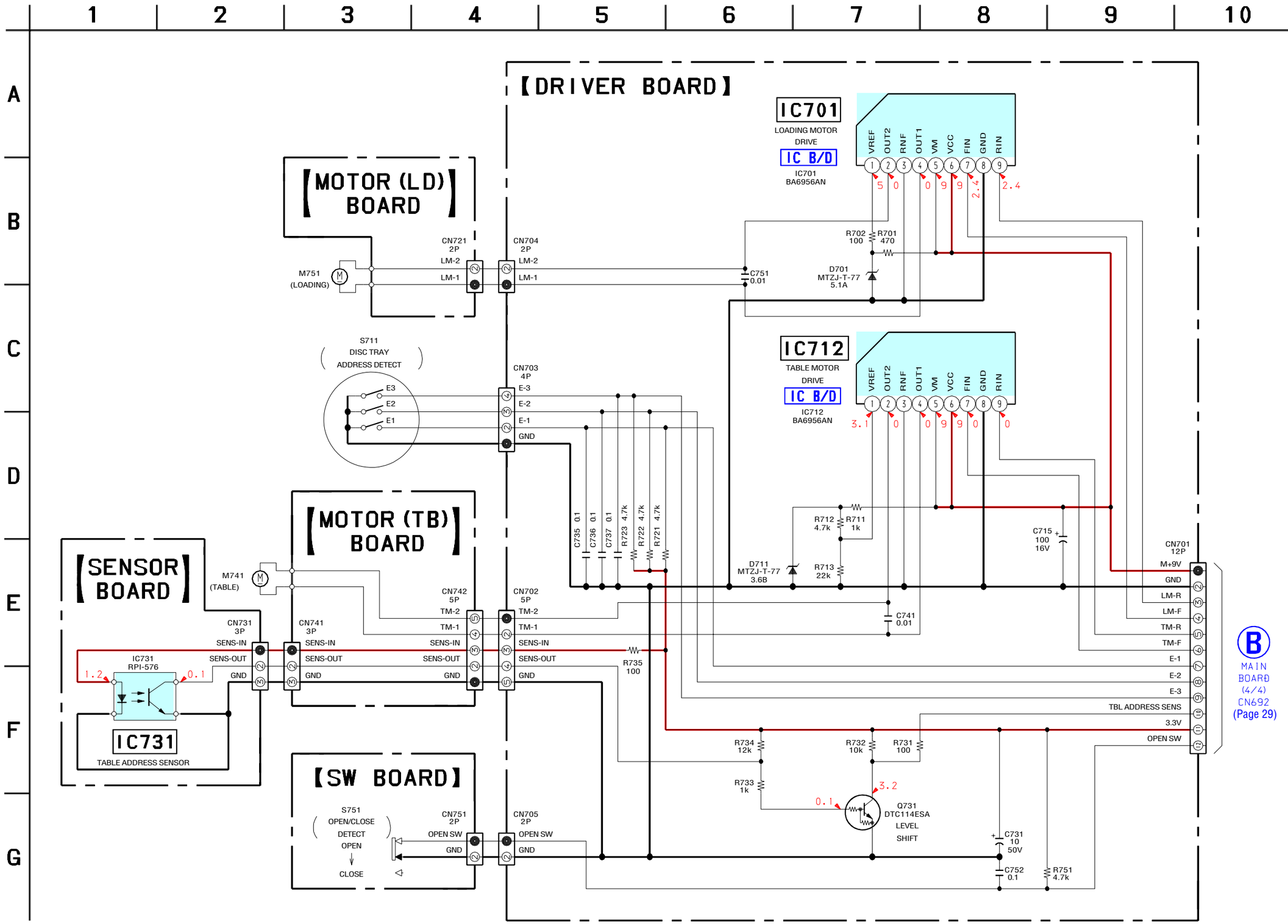


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

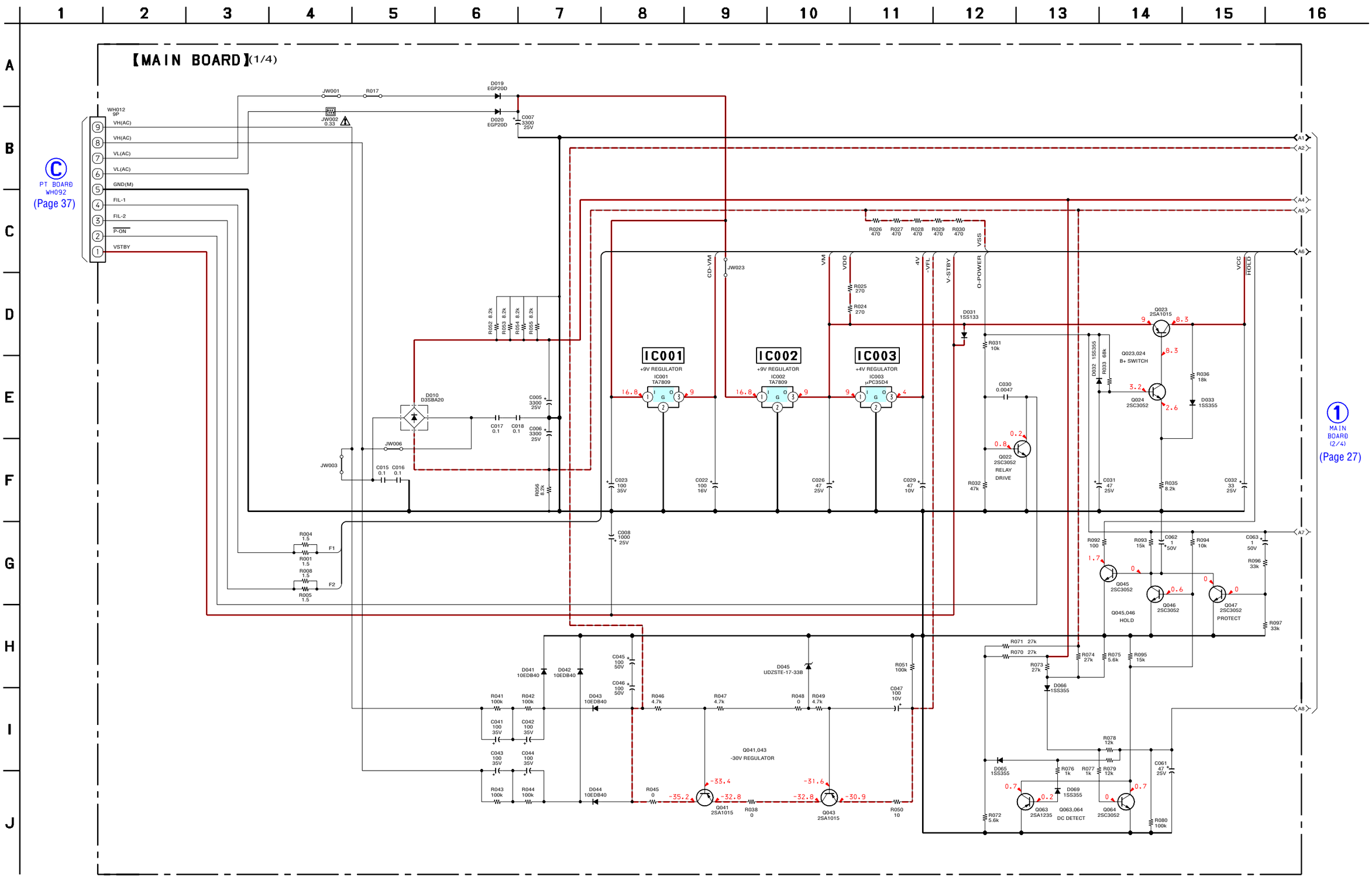
6-7. PRINTED WIRING BOARDS – CHANGER Section – • See page 21 for Circuit Boards Location. :Uses unleaded solder.



6-8. SCHEMATIC DIAGRAM – CHANGER Section – • See page 38 for IC Block Diagrams.

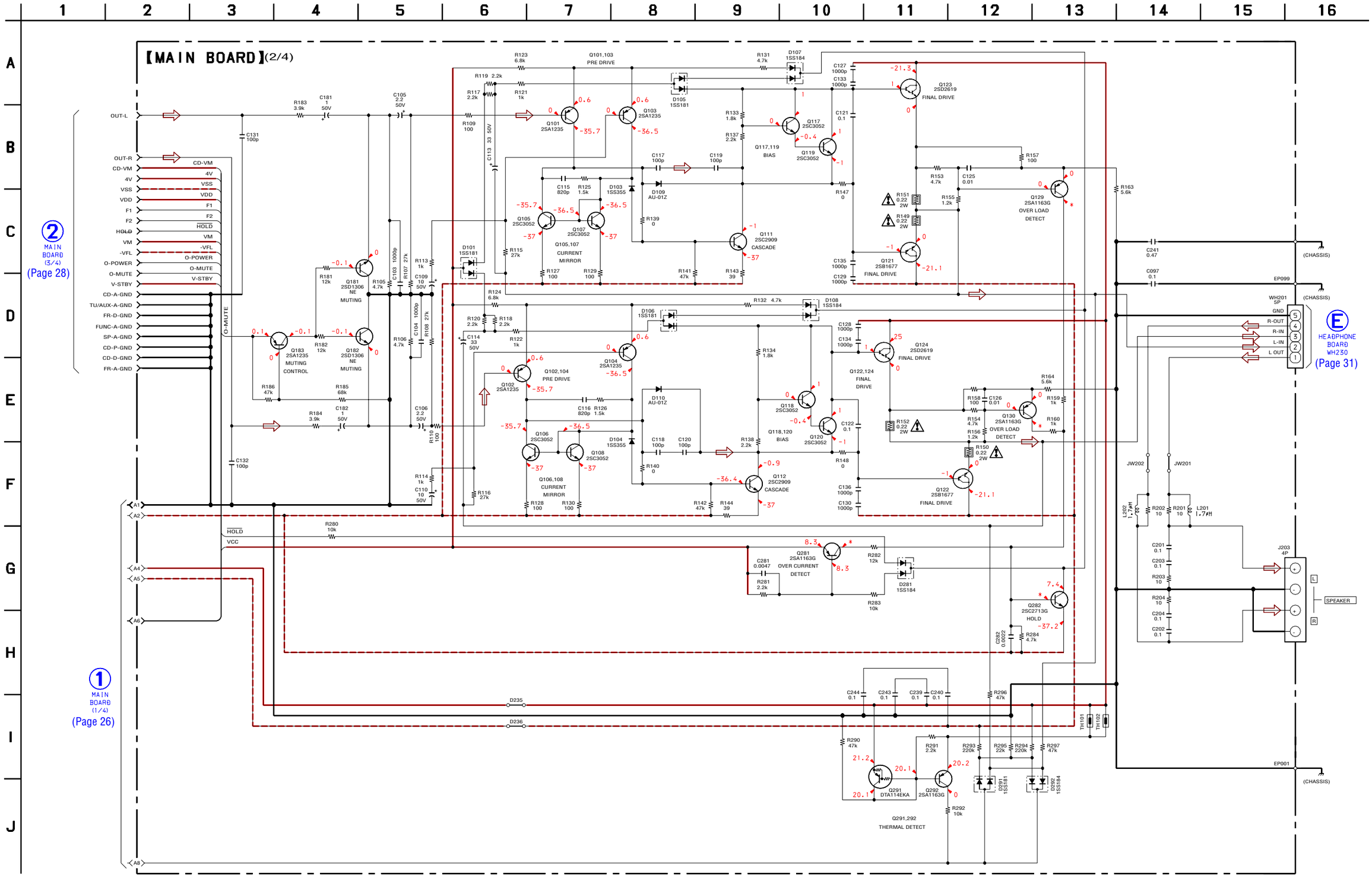


6-9. SCHEMATIC DIAGRAM – MAIN Section (1/4) –



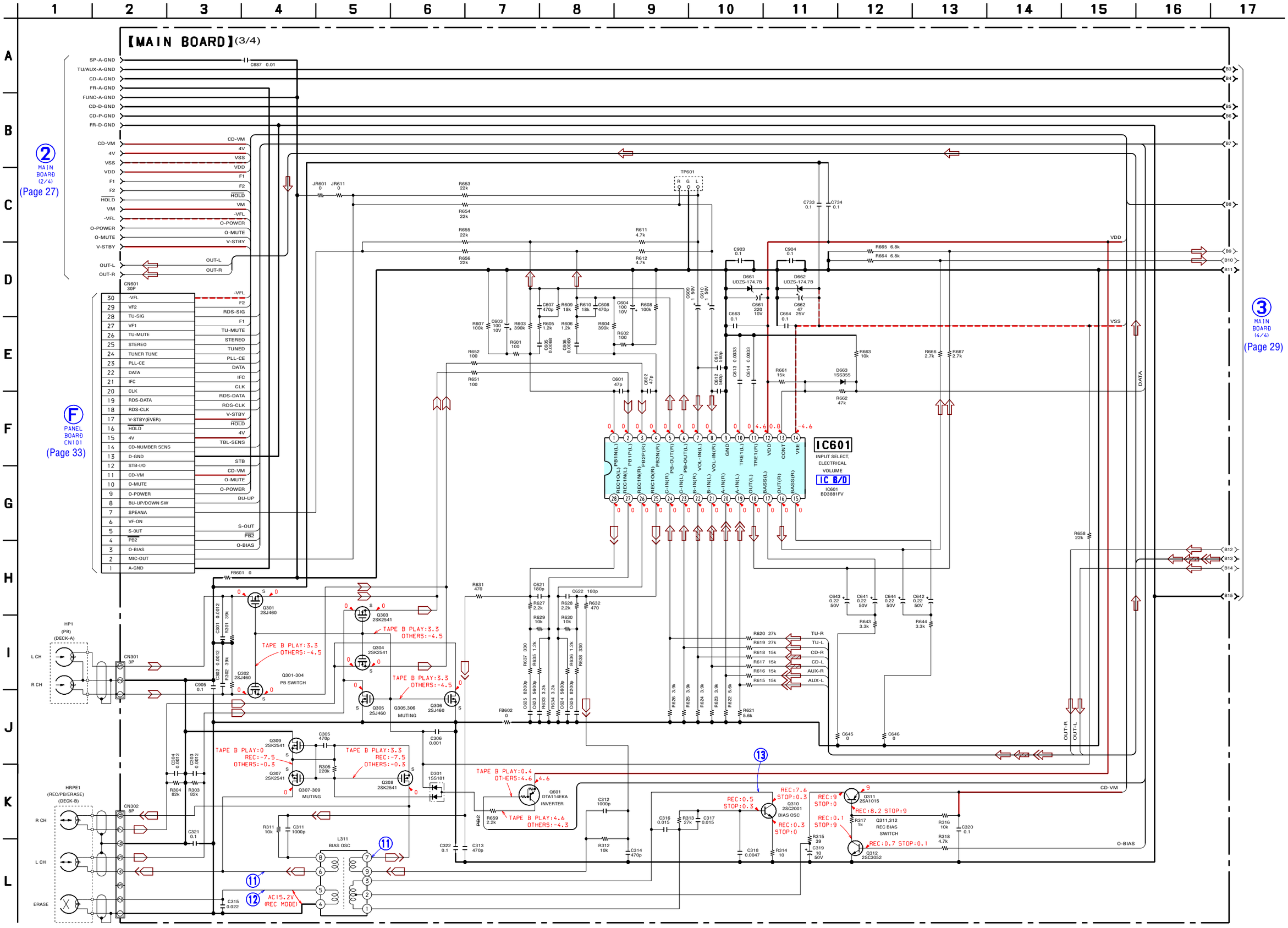
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

6-10. SCHEMATIC DIAGRAM – MAIN Section (2/4) –

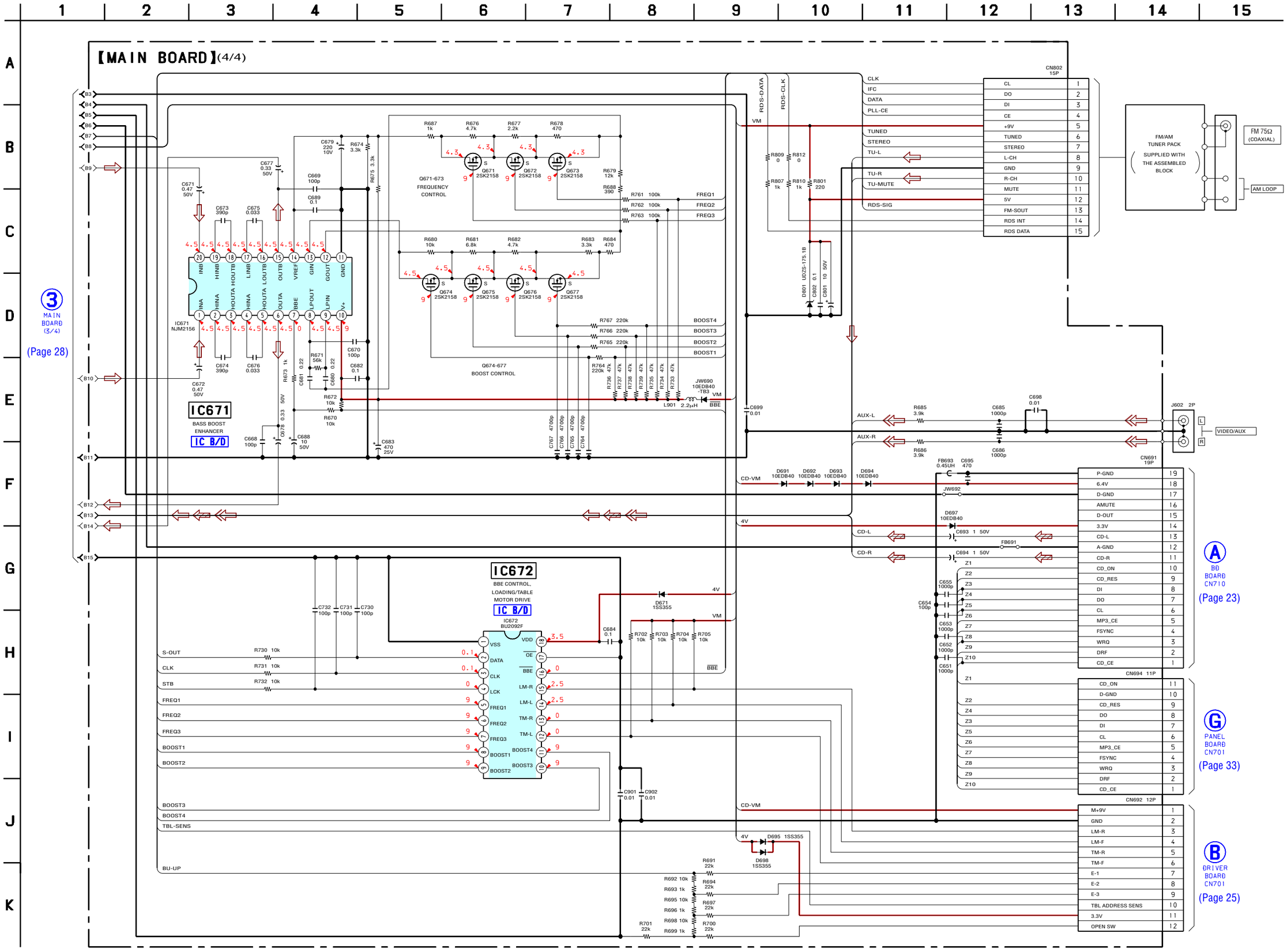


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

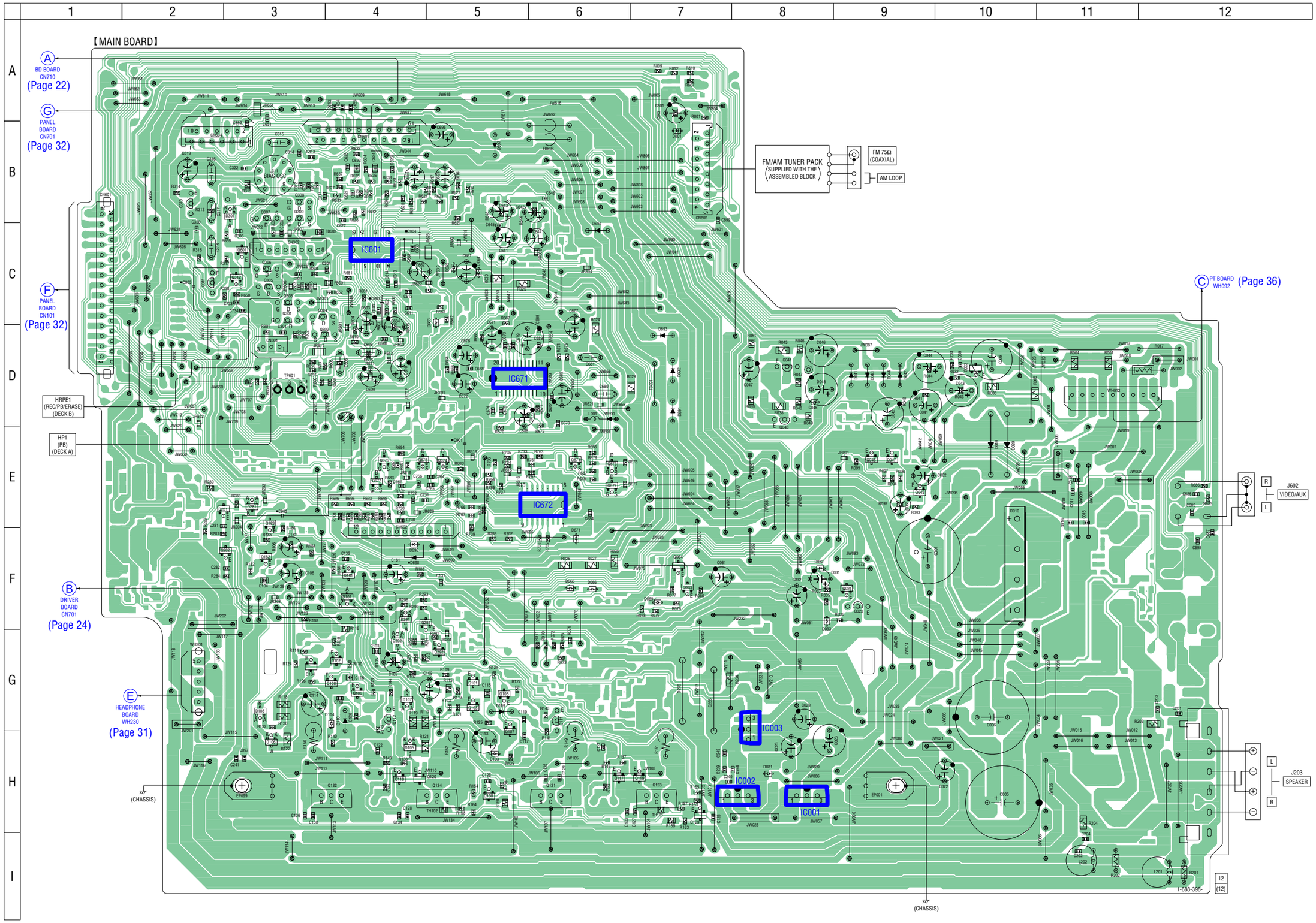
6-11. SCHEMATIC DIAGRAM – MAIN Section (3/4) – • See page 38 for IC Block Diagram. • See page 38 for Waveforms.



6-12. SCHEMATIC DIAGRAM – MAIN Section (4/4) – • See page 38 for IC Block Diagrams.

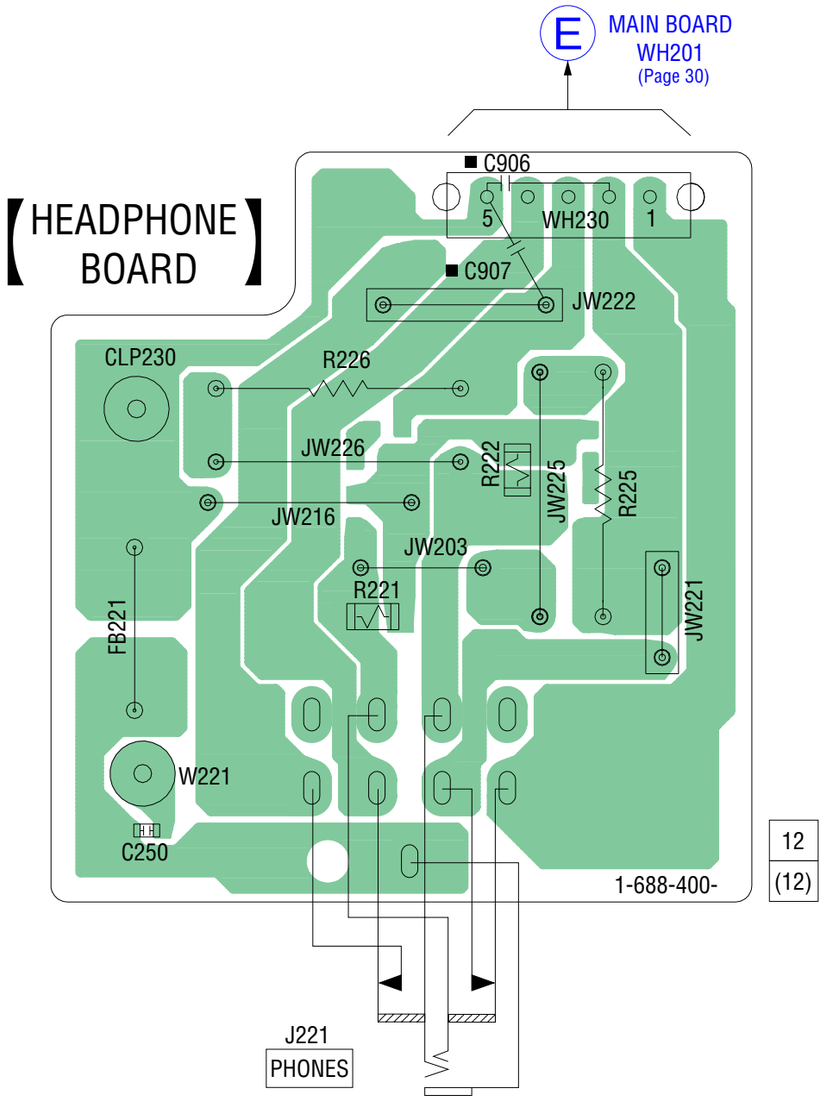


6-13. PRINTED WIRING BOARD – MAIN Section – • See page 21 for Circuit Boards Location. :Uses unleaded solder.

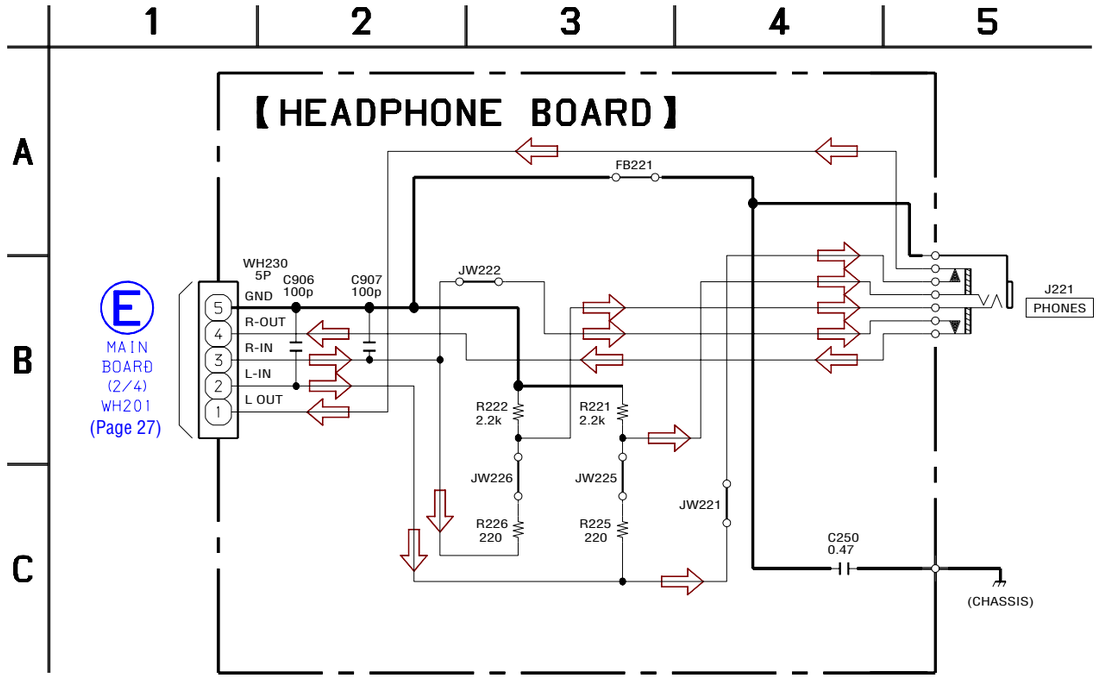


6-14. PRINTED WIRING BOARD – HP Section – • See page 21 for Circuit Boards Location.

:Uses unleaded solder.



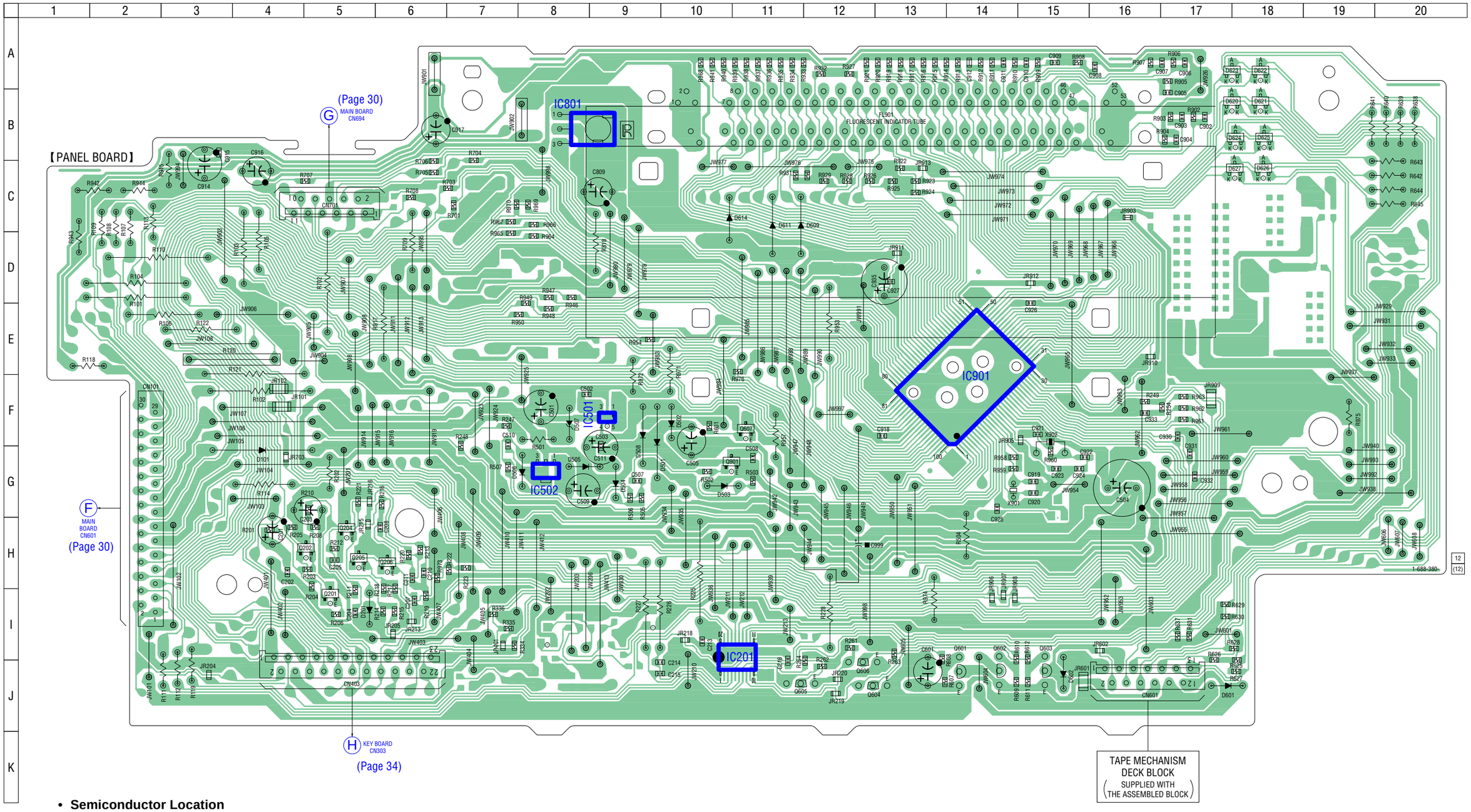
6-15. SCHEMATIC DIAGRAM – HP Section –



• **Semiconductor Location (MAIN board)**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D010	F-10	D106	H-3	D697	B-5	Q045	E-9	Q120	H-4	Q305	C-3
D019	E-10	D107	G-4	D698	F-4	Q046	E-9	Q121	H-6	Q306	C-3
D020	E-10	D108	G-3	D801	B-7	Q047	E-9	Q122	H-4	Q307	B-3
D031	H-8	D109	G-5			Q063	F-7	Q123	H-7	Q308	B-3
D032	F-8	D110	G-4	IC001	H-8	Q064	F-7	Q124	H-5	Q309	B-3
D033	F-8	D281	E-3	IC002	H-8	Q101	G-5	Q129	H-7	Q310	B-2
D041	D-9	D291	F-4	IC003	G-8	Q102	G-4	Q130	H-5	Q311	C-2
D042	D-9	D292	G-4	IC601	C-4	Q103	G-5	Q181	F-4	Q312	C-3
D043	D-9	D301	B-3	IC671	D-5	Q104	G-3	Q182	F-3	Q601	C-3
D044	D-9	D661	C-5	IC672	E-6	Q105	G-5	Q183	E-3	Q671	E-6
D045	D-8	D662	C-5			Q106	G-4	Q281	E-3	Q672	E-6
D065	F-6	D663	C-5	JW690	D-6	Q107	H-5	Q282	F-3	Q673	E-6
D066	F-6	D671	F-6			Q108	G-4	Q291	F-4	Q674	E-5
D069	F-7	D691	D-7	Q022	D-10	Q111	G-6	Q292	G-5	Q675	E-4
D101	F-4	D692	D-7	Q023	F-9	Q112	G-4	Q301	C-3	Q676	E-4
D103	H-5	D693	D-7	Q024	F-9	Q117	H-6	Q302	D-3	Q677	E-4
D104	G-4	D694	C-6	Q041	D-8	Q118	H-4	Q303	C-3		
D105	H-4	D695	F-4	Q043	D-8	Q119	H-7	Q304	C-3		

6-16. PRINTED WIRING BOARD – PANEL Section – • See page 21 for Circuit Boards Location. :Uses unleaded solder.



- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	G-4	D611	C-11	IC502	G-8	Q204	H-5
D201	I-5	D614	C-10	IC801	B-9	Q205	H-5
D501	F-9	D620	B-18	IC901	F-14	Q206	H-6
D502	F-10	D621	B-18			Q601	J-14
D503	G-10	D622	A-18	LED202	C-19	Q602	J-14
D504	G-9	D623	A-18	LED203	D-18	Q603	J-15
D505	G-8	D624	B-18	LED204	E-17	Q604	J-12
D506	G-8	D625	B-18	LED205	C-7	Q605	J-11
D507	F-8	D626	C-18	LED206	D-8	Q606	J-12
D508	F-9	D627	C-18	LED207	E-9	Q607	F-11
D601	J-17					Q901	G-10
D602	J-15	IC201	I-11	Q201	I-5		
D609	C-11	IC501	F-9	Q202	H-5		

6-17. SCHEMATIC DIAGRAM – PANEL Section – • See page 38 for IC Block Diagram. • See page 38 for Waveforms.

【PANEL BOARD】

FL901
FLUORESCENT INDICATOR TUBE

IC901
SYSTEM CONTROLLER
IC901
LC87F7968-52D8

IC201
MOTOR/PLUNGER DRIVE, LED DRIVE
IC201
BU2099FV

IC501
+4V REGULATOR
IC501
MM1614A

IC502
RESET SIGNAL GENERATOR
IC502
M62703ML

IC801
REMOTE CONTROL RECEIVER
IC801
GP1UM271XK

Q601,604 CAPSTAN/REEL MOTOR DRIVE
Q602,605 PLUNGER DRIVE (DECK-A)
Q603,606 PLUNGER DRIVE (DECK-B)
Q901 2SC3052 RESET SWITCH
Q607 DTA114EKA -T146 B+ SWITCH

CN701 11P
CN101 30P
CN403 23P
CN601 13P

(G) MAIN BOARD (4/4) CN694 (Page 29)
(F) MAIN BOARD (3/4) CN601 (Page 28)
(H) KEY BOARD CN503 (Page 35)

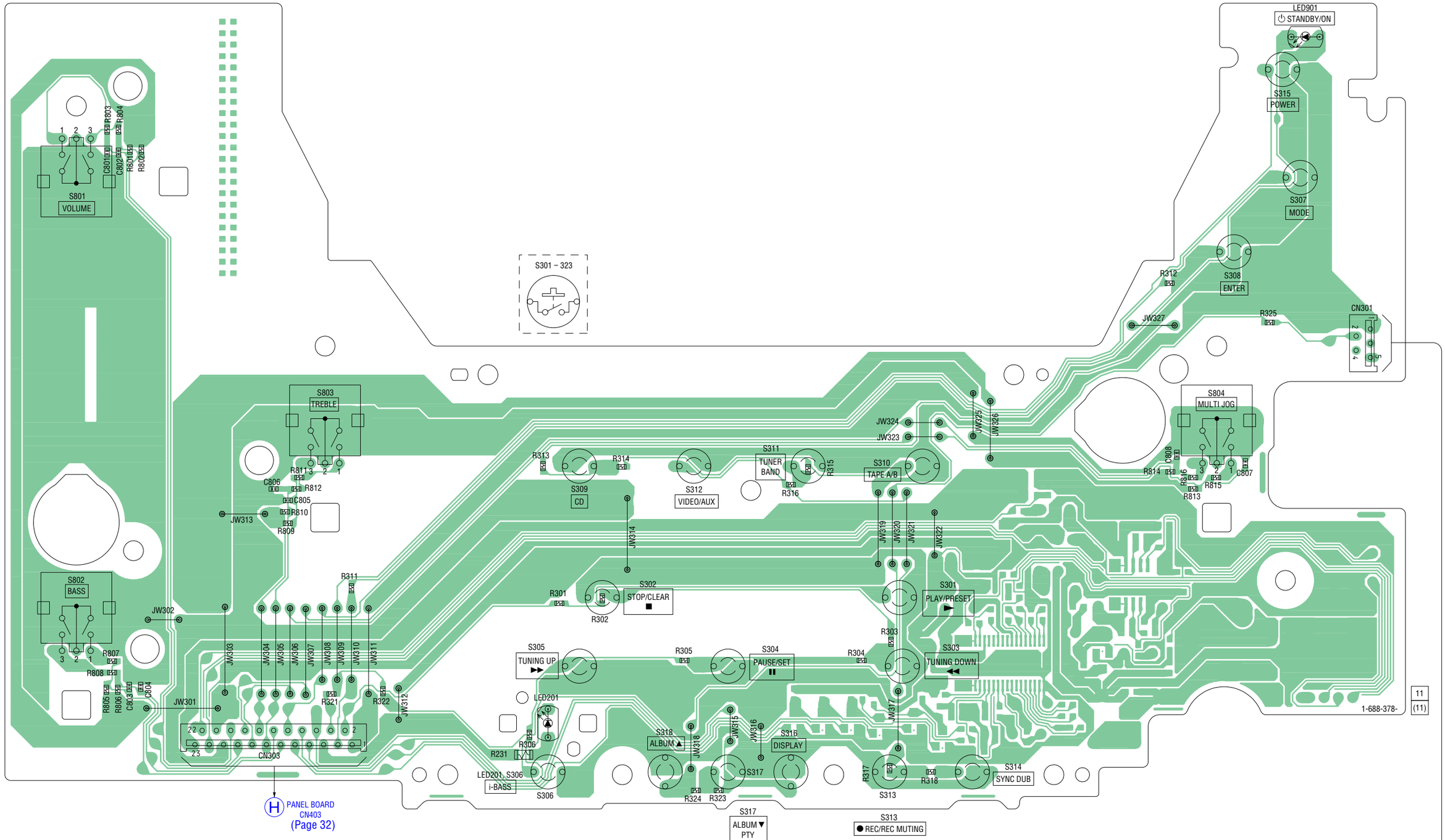
TAPE MECHANISM DECK BLOCK SUPPLIED WITH THE ASSEMBLED BLOCK

6-18. PRINTED WIRING BOARDS – KEY Section –

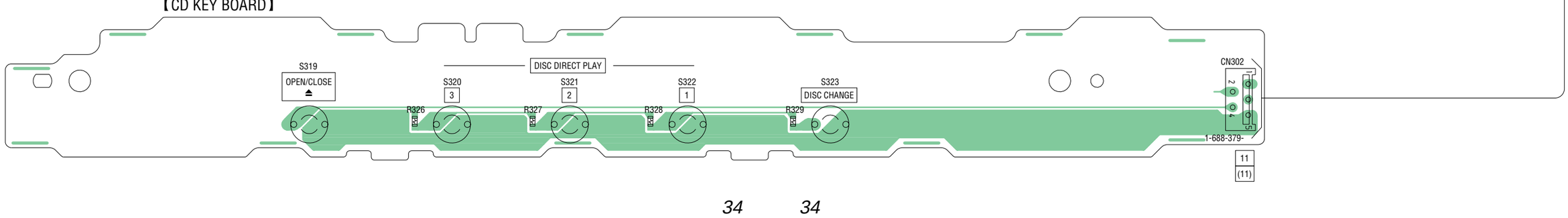
• See page 21 for Circuit Boards Location.

:Uses unleaded solder.

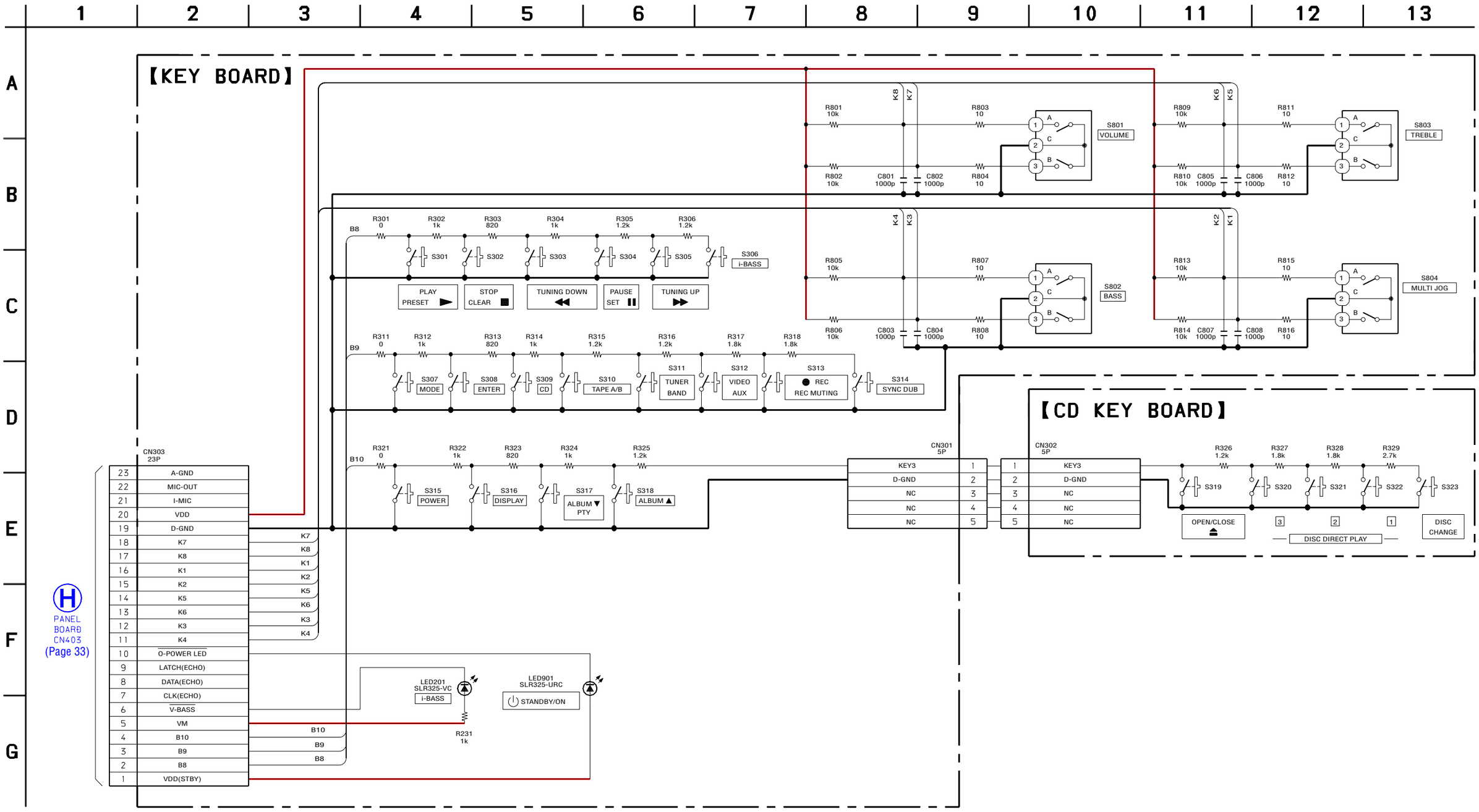
【KEY BOARD】



【CD KEY BOARD】



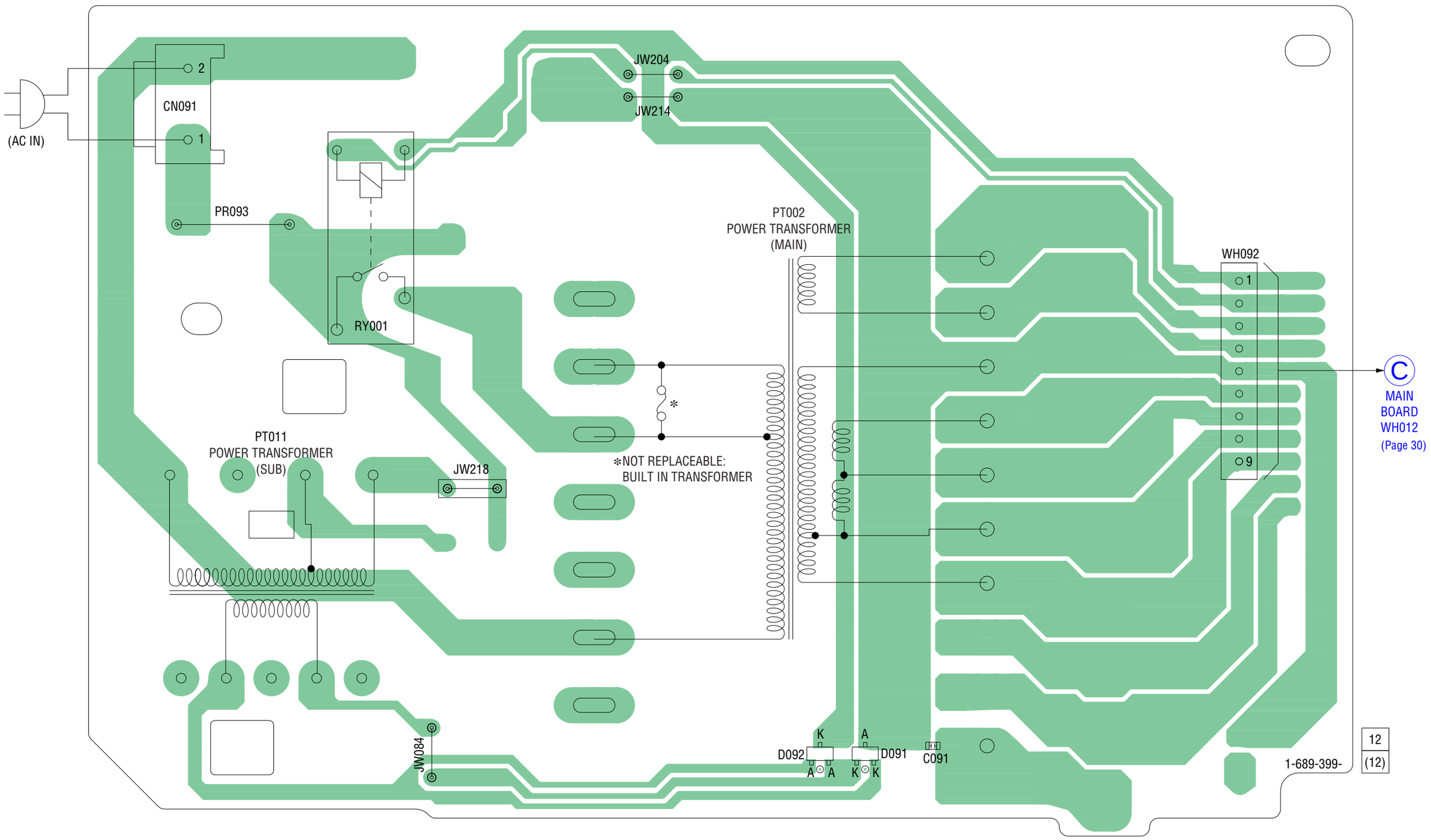
6-19. SCHEMATIC DIAGRAM – KEY Section –



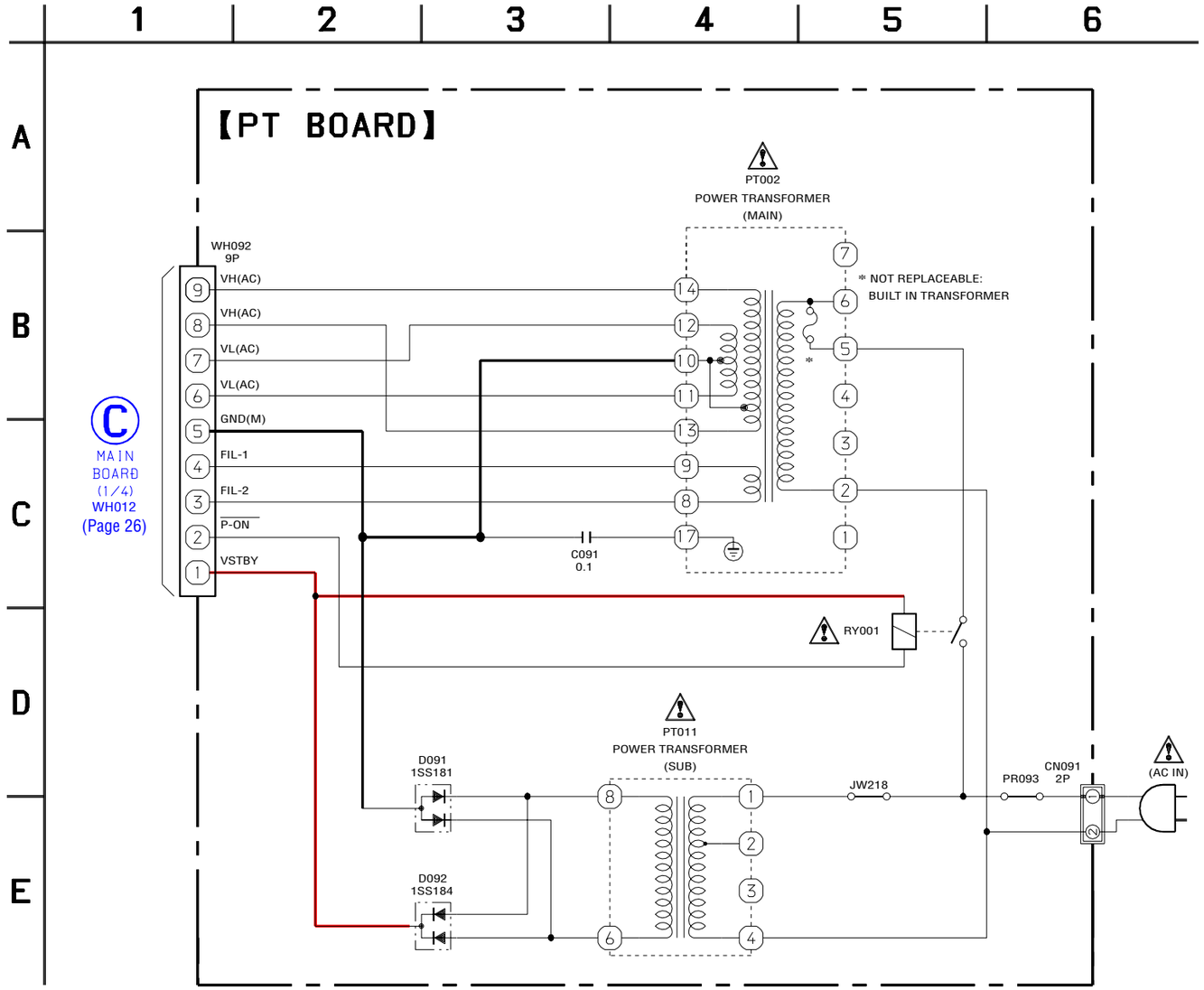
6-20. PRINTED WIRING BOARD – PT Section –

• See page 21 for Circuit Boards Location. :Uses unleaded solder.

【PT BOARD】



6-21. SCHEMATIC DIAGRAM – PT Section –

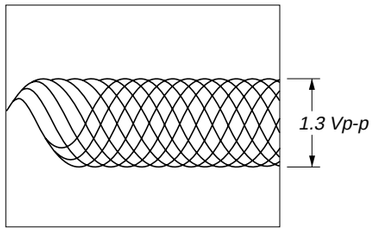


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

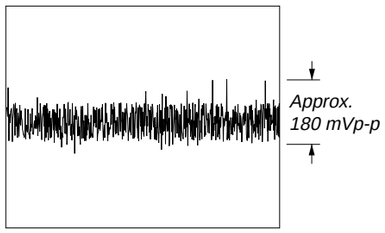
• Waveforms

– BD Board –

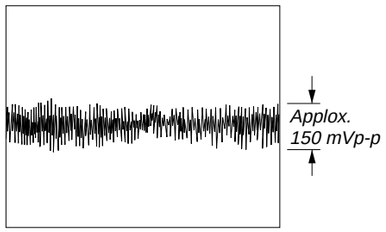
❶ IC721 ④ (RF) (CD Play Mode)



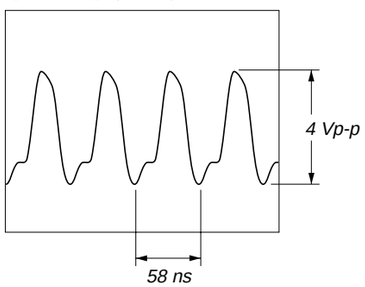
❷ IC721 ⑬ (TE) (CD Play Mode)



❸ IC721 ⑮ (TE) (CD Play Mode)

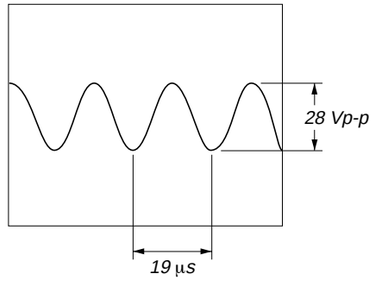


❹ IC721 ㊽ (XOUT)

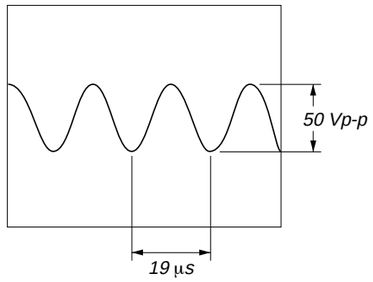


– MAIN Board –

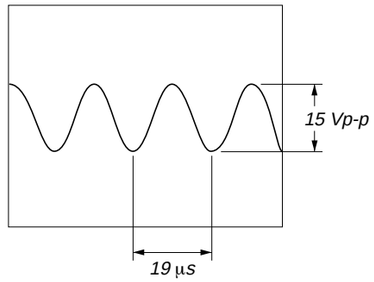
⓫ L311 ⑥ , ⑦ (REC Mode)



⓬ L311 ⑤ (REC Mode)

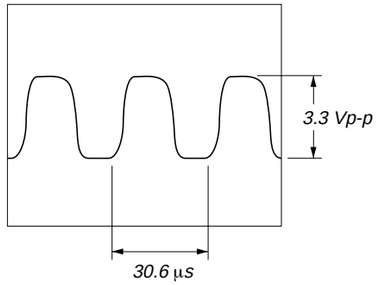


⓭ Q310 Collector (REC Mode)

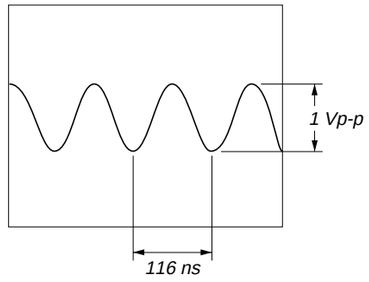


– PANEL Board –

⓮ IC901 ⑬ (XT2)



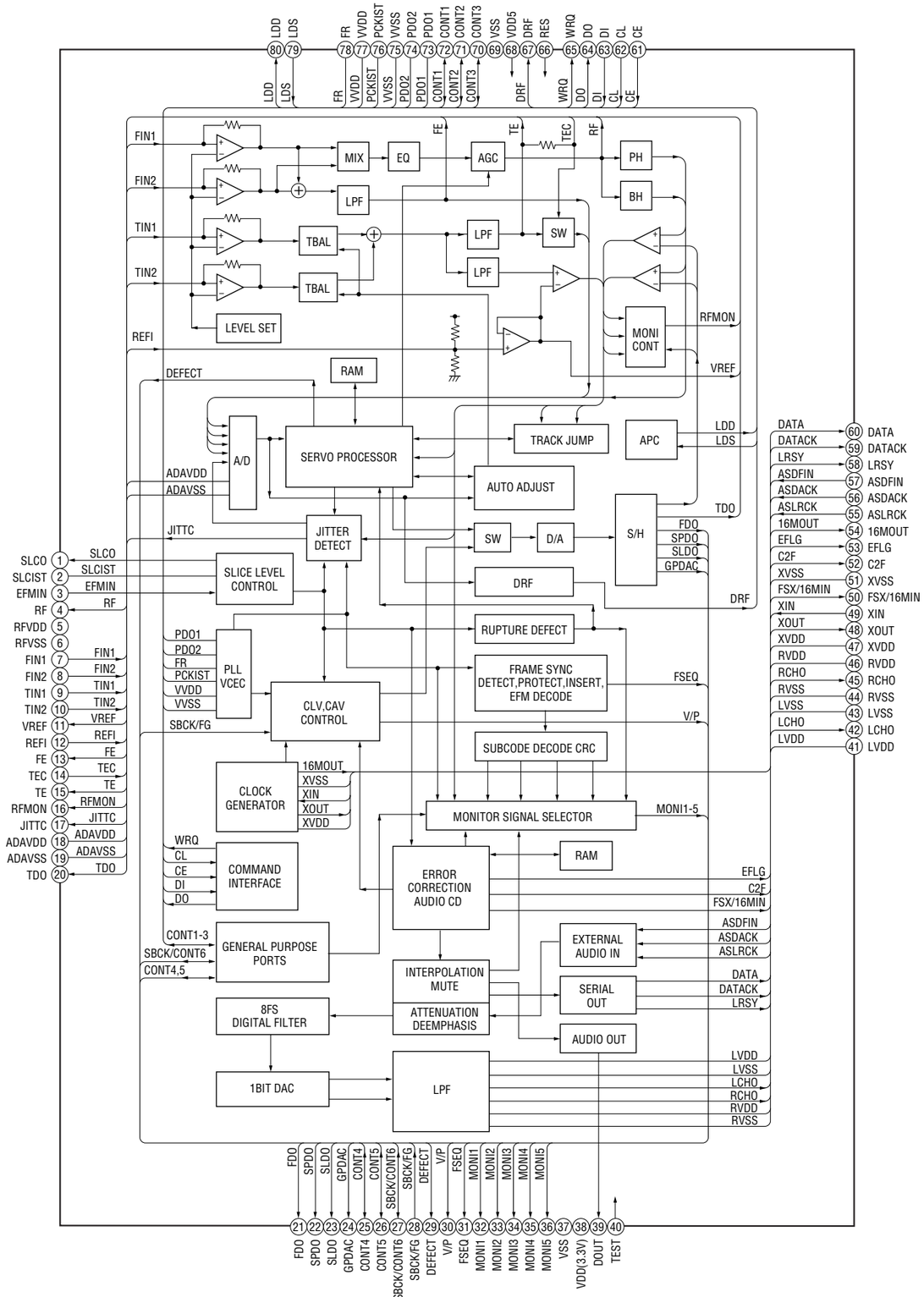
⓯ IC901 ⑯ (CF2)



• IC Block Diagrams

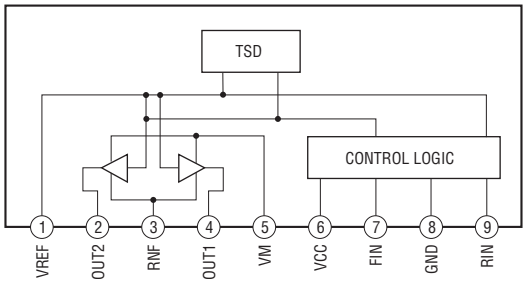
– BD Board –

IC721 LC78646E-E



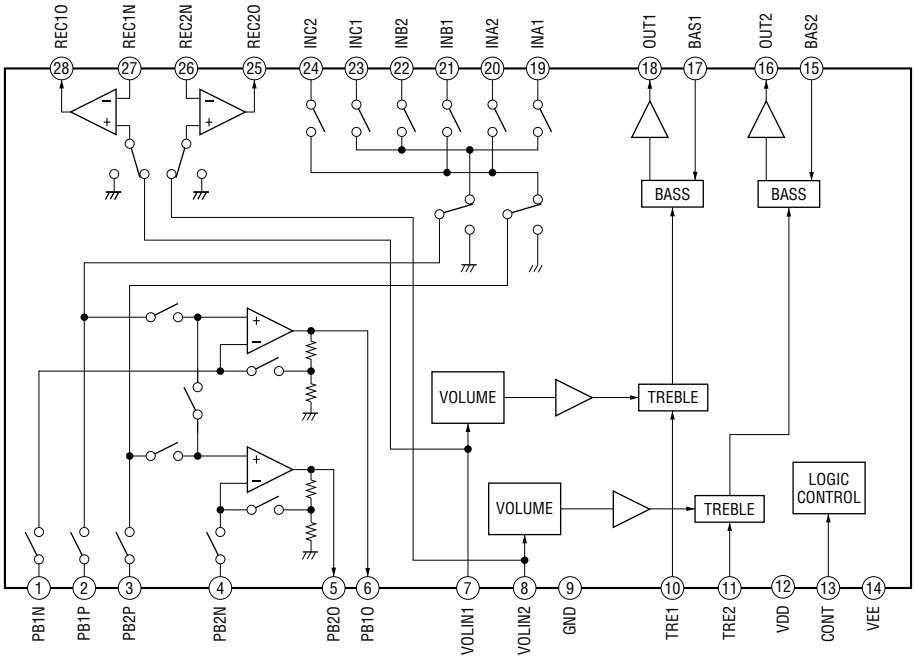
– DRIVER Board –

IC701, 712 BA6956AN

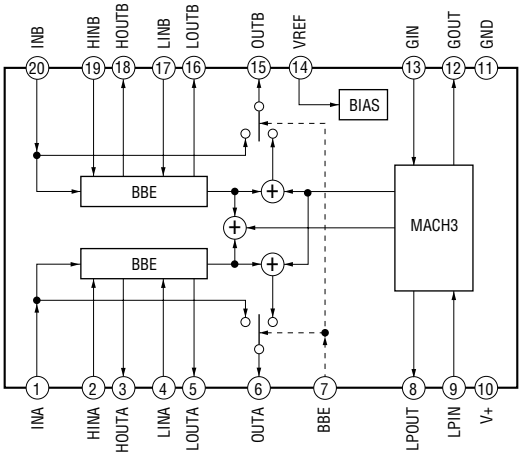


– MAIN Board –

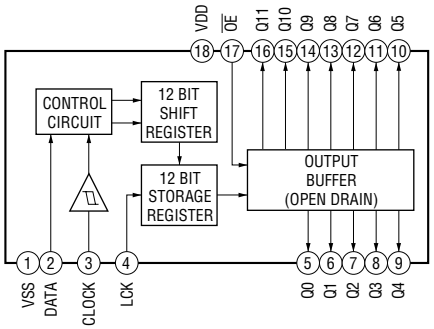
IC601 BD3881FV



IC671 NJM2156M (TE2)

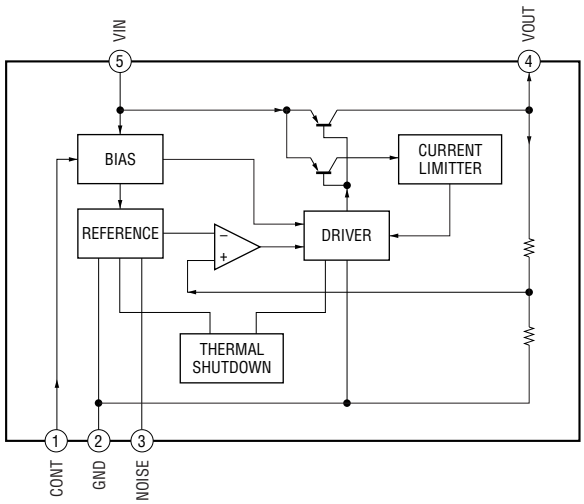


IC672 BU2092F-E2



– PANEL Board –

IC501 MM1614A



6-22. IC PIN FUNCTION DESCRIPTION

• PANEL BOARD IC901 LC876796B-52D8 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	SYS-MUTE	O	Line muting on/off control signal output terminal
2	RDS DO	I	RDS serial data input from the FM/AM tuner unit
3	TU/EVOL DO	O	Serial data output to the FM/AM tuner unit, motor/plunger driver and electrical volume
4	CD RESET	O	Reset signal output to the CD DSP
5	CD CE	O	Chip enable signal output to the CD DSP
6	MP3 CE	O	Chip enable signal output to the MP3 decoder
7	$\overline{\text{CLK-SHIFT}}$	O	Shift clock signal output terminal Not used
8	LCK	O	Latch clock signal output to the motor/plunger driver
9	TU CE	O	Chip enable signal output to the FM/AM tuner unit
10	MP3 SYNC	I	SYNC signal input from the MP3 decoder
11	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
12	XT1	I	System clock input terminal (32.768 kHz)
13	XT2	O	System clock output terminal (32.768 kHz)
14	VSS1	—	Ground terminal
15	CF1	I	System clock input terminal (8.64 MHz)
16	CF2	O	System clock output terminal (8.64 MHz)
17	VDD1	—	Power supply terminal (+3.3V)
18	POWER DOWN	I	Power down detection signal input terminal
19	TU-SIG/MIC	I	RDS signal input terminal
20	CD BUSY	I	Optical pick-up up/down detection and tray open/close detection signal input terminal
21	SPEANA-L	I	Spectrum analyzer drive signal input terminal (low band)
22	SPEANA-M	I	Spectrum analyzer drive signal input terminal (middle band)
23	SPEANA-H	I	Spectrum analyzer drive signal input terminal (high band)
24	KEY3	I	Front panel key input terminal (A/D input)
25	KEY2	I	Front panel key input terminal (A/D input)
26	KEY1	I	Front panel key input terminal (A/D input)
27	$\overline{\text{HOLD}}$	I	System malfunction signal (hold signal) input from the power amplifier circuit
28	RDS CLK	I	RDS serial data transfer clock signal input from the tuner unit
29	RMC	I	Remote control signal input terminal
30 to 40	G1 to G11	O	Grid drive signal output to the fluorescent indicator tube
41 to 45	S1 to S5	O	Segment drive signal output to the fluorescent indicator tube
46	VDD3	—	Power supply terminal (+3.3V)
47	A PHOTO/S6	I/O	Deck-A tape reel rotating detection signal input and segment drive signal output to the fluorescent indicator tube
48	B PHOTO/S7	I/O	Deck-B tape reel rotating detection signal input and segment drive signal output to the fluorescent indicator tube
49	$\overline{\text{REC REV}}$/S8	I/O	Recording (reverse direction) detection signal input and segment drive signal output to the fluorescent indicator tube
50	$\overline{\text{B MODE}}$/S9	I/O	Deck-B mode detection signal input and segment drive signal output to the fluorescent indicator tube
51	$\overline{\text{FIX0}}$	I/O	Not used
52	$\overline{\text{B HALF}}$/S10	I/O	Deck-B cassette detection signal input and segment drive signal output to the fluorescent indicator tube
53	$\overline{\text{REC FWD}}$/S11	I/O	Recording (forward direction) detection signal input and segment drive signal output to the fluorescent indicator tube

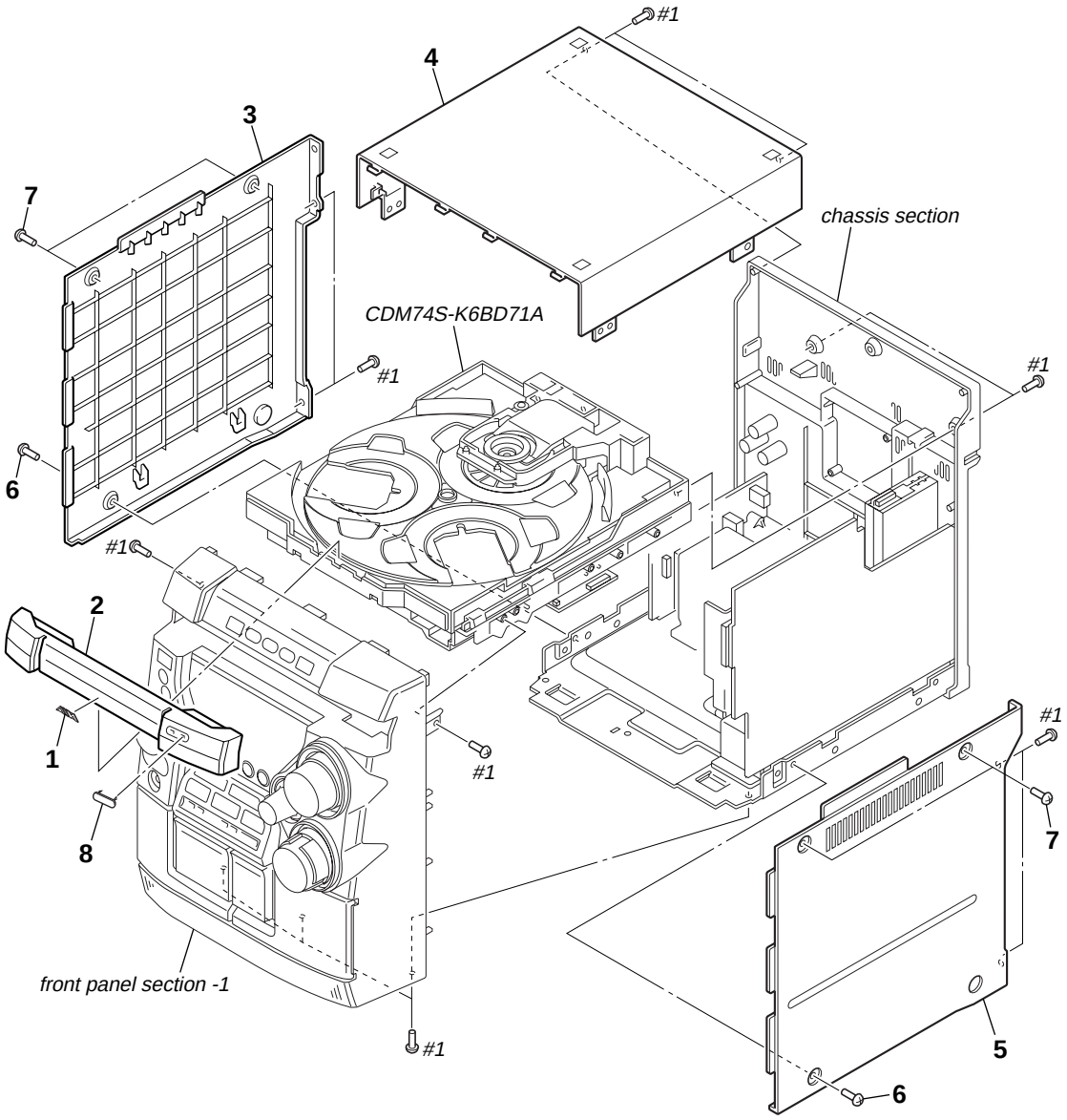
Pin No.	Pin Name	I/O	Description
54	$\overline{\text{A HALF}}$/S12	I/O	Deck-A cassette detection signal input and segment drive signal output to the fluorescent indicator tube
55	$\overline{\text{A MODE}}$/S13	I/O	Deck-A mode detection signal input and segment drive signal output to the fluorescent indicator tube
56 to 67	S14 to S25	O	Segment drive signal output to the fluorescent indicator tube
68 to 71	S26 to S29	O	Segment drive signal output to the fluorescent indicator tube
72	VDD4	—	Power supply terminal (+3.3V)
73	S30	O	Segment drive signal output to the fluorescent indicator tube
74	CD NUMBER SENS	I	CD table address detection signal input terminal
75	TUNED	I	Tuning detection signal input from the tuner unit
76	STEREO	I	FM stereo detection signal input from the tuner unit
77	VOL A	I	Jog dial pulse input terminal (VOLUME)
78	VOL B	I	Jog dial pulse input terminal (VOLUME)
79	JOG A	I	Jog dial pulse input terminal (JOG)
80	JOG B	I	Jog dial pulse input terminal (JOG)
81	TRE A	I	Jog dial pulse input terminal (TREBLE)
82	TRE B	I	Jog dial pulse input terminal (TREBLE)
83	BASS A	I	Jog dial pulse input terminal (BASS)
84	BASS B	I	Jog dial pulse input terminal (BASS)
85	TUNER MUTE	O	Tuner muting on/off control signal output terminal
86	$\overline{\text{LED L}}$	O	LED drive signal output terminal
87	$\overline{\text{LED R}}$	O	LED drive signal output terminal
88	CLK	O	Serial data transfer clock signal output to the FM/AM tuner unit, motor/plunger driver and BBE controller
89	VSS2	—	Ground terminal
90	VDD2	—	Power supply terminal (+3.3V)
91	VF ON	O	Not used
92	$\overline{\text{KEYSCAN}}$	O	Scan signal output for switches in the tape deck section and segment drive signal (S14 to S25)
93	$\overline{\text{POWER LED}}$	O	LED drive signal output terminal
94	$\overline{\text{POWER}}$	O	Power on/off control signal output terminal
95	CD DRF	I	Focus on detection signal input from the CD DSP
96	TU DI	I	Serial data input from the FM/AM tuner unit
97	CD WRQ	I	Interrupt request signal input from the CD DSP
98	CD DI	I	Serial data input from the CD DSP
99	CD DO	O	Serial data output to the CD DSP
100	CD CLK	O	Serial data transfer clock signal output to the CD DSP

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.
- Accessories are given in the last of the electrical parts list.

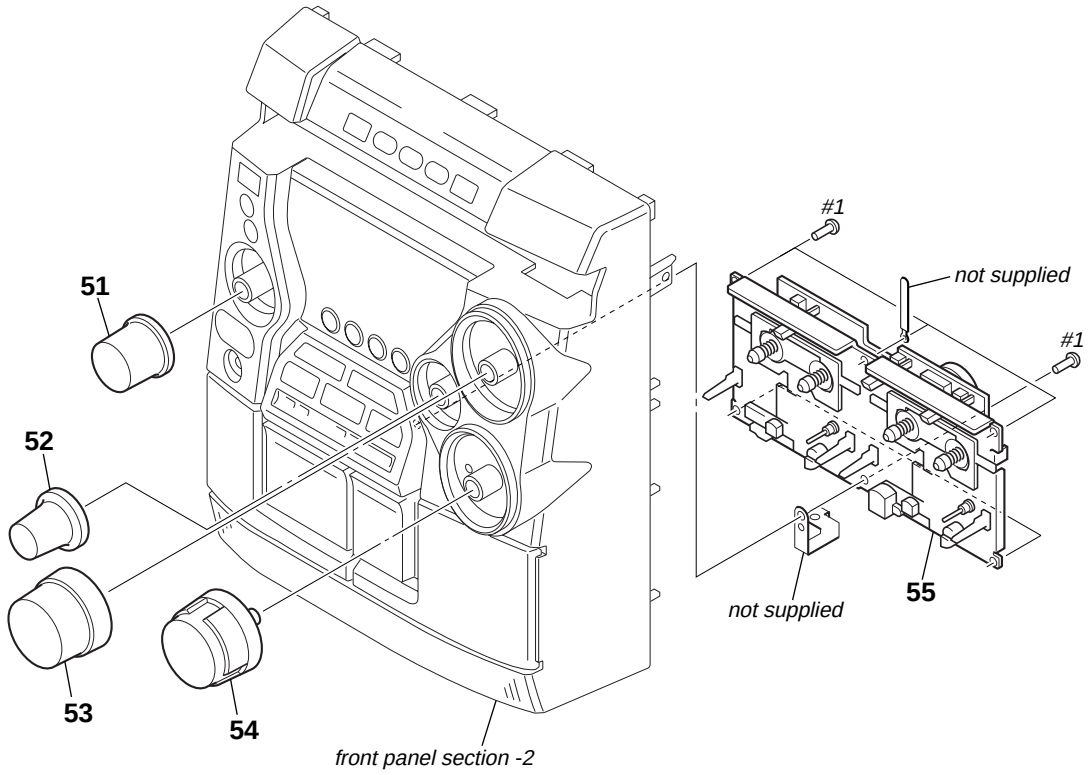
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

7-1. CASE SECTION



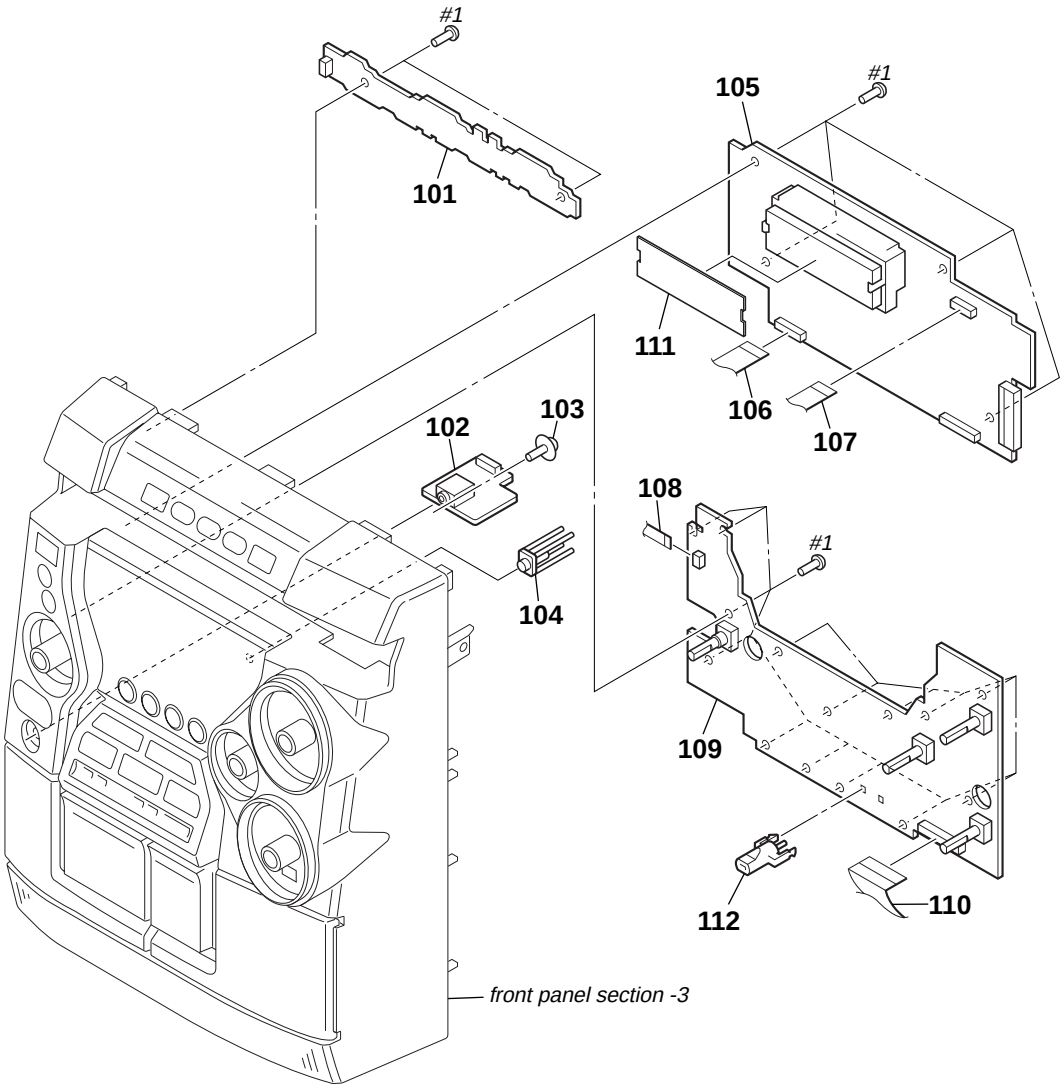
Ref. No.	Part No.	Description	Remark
1	4-245-158-01	EMBLEM	
2	4-245-186-01	PANEL, TRAY	
3	4-245-183-11	CASE (SIDE-L)	
4	4-244-849-31	CASE (TOP)	
5	4-245-184-11	CASE (SIDE-R)	
6	3-363-099-01	SCREW (CASE 3 TP2)	
7	3-363-099-41	SCREW (CASE 3 TP2)	
8	4-246-682-01	EMBLEM (30), MP3	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

7-2. FRONT PANEL SECTION-1



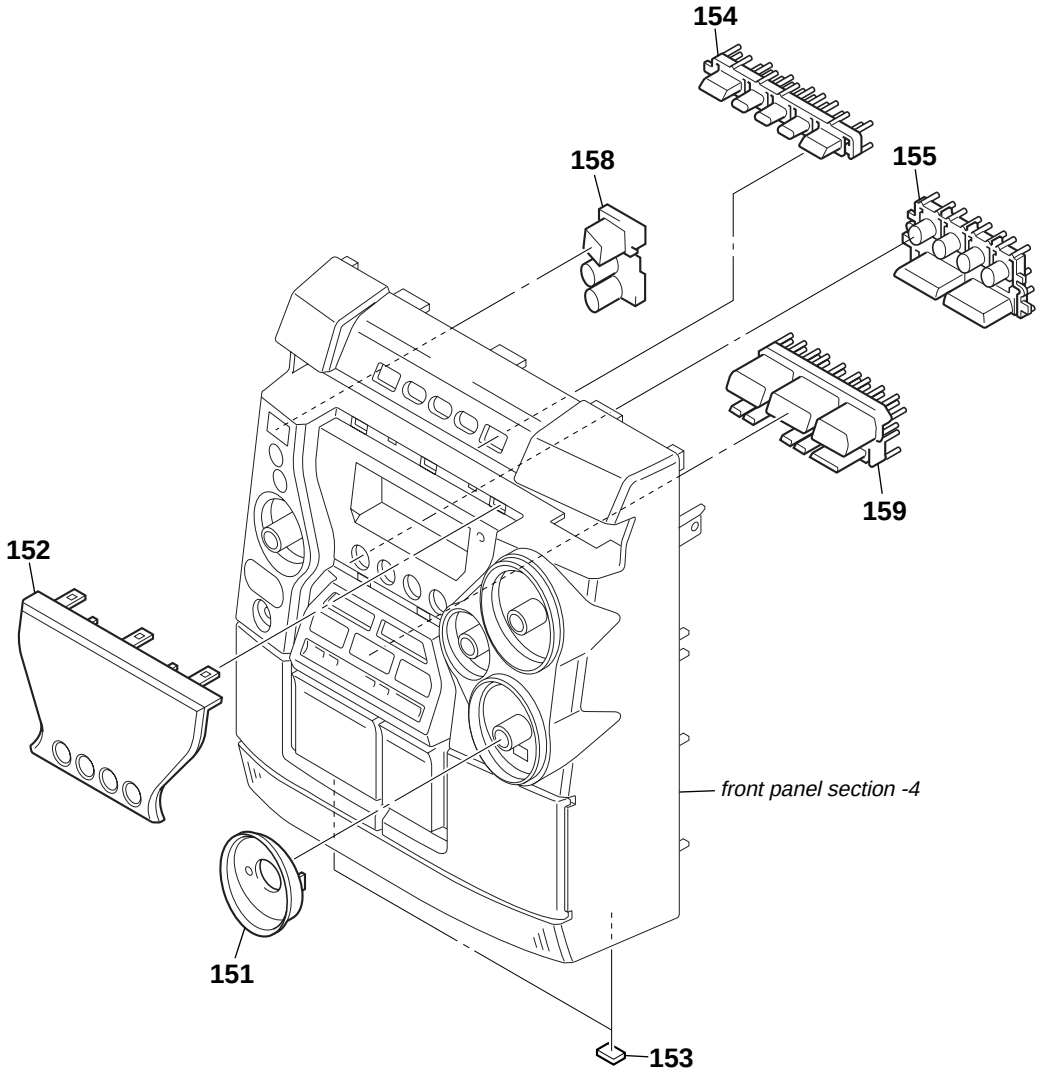
Ref. No.	Part No.	Description	Remark
51	4-245-177-01	ROTARY (JOG), KNOB	
52	4-245-179-01	ROTARY (TRE), KNOB	
53	4-245-182-01	PLATING, KNOB ROTARY (VOL)	
54	4-245-176-01	PLATING, KNOB ROTARY (BASS)	
55	1-796-485-51	DECK, MECHANICAL (CWM43FF13)	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

7-3. FRONT PANEL SECTION-2



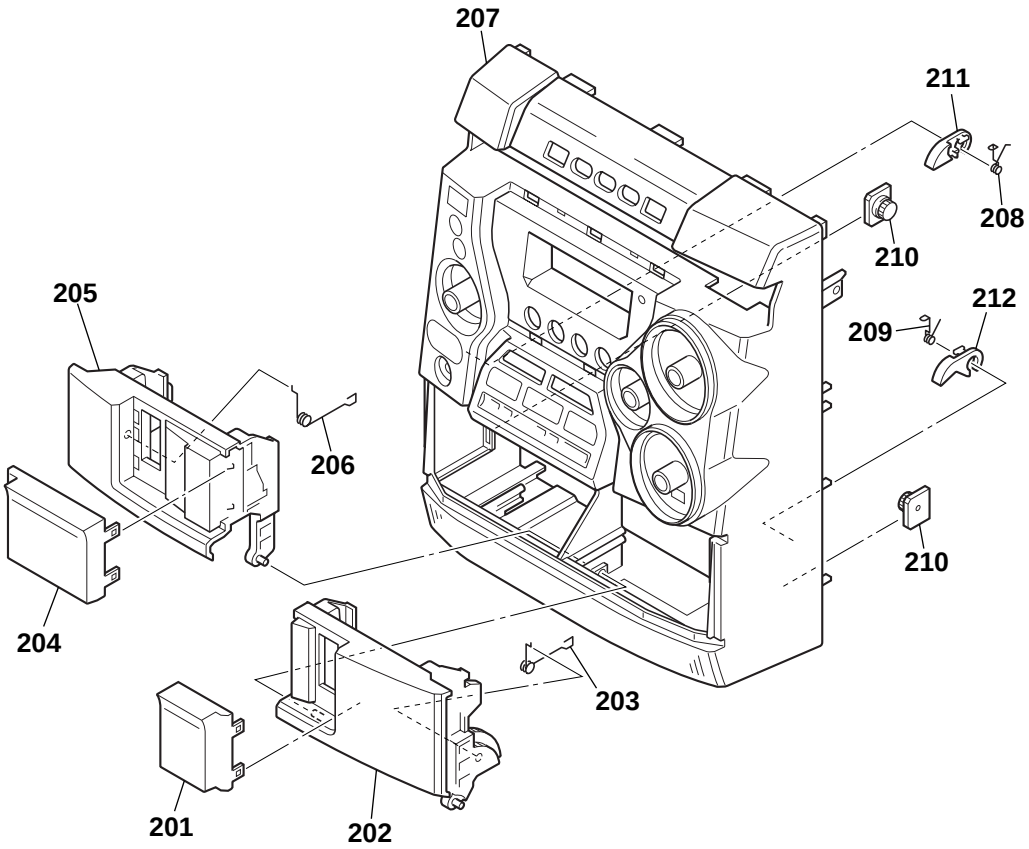
Ref. No.	Part No.	Description	Remark
101	1-688-379-11	CD KEY BOARD	
102	1-688-400-12	HEADPHONE BOARD	
103	3-229-336-01	SCREW, +BVWH TAPPING	
104	4-245-189-01	REFLECTOR, REMOTE CONTROL	
105	A-4732-992-A	PANEL BOARD, COMPLETE	
106	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)	
107	1-769-944-11	WIRE (FLAT TYPE) (11 CORE)	
108	1-769-857-11	WIRE (FLAT TYPE) (5 CORE)	
109	A-4732-924-A	KEY BOARD, COMPLETE	
110	1-773-182-11	WIRE (FLAT TYPE) (23 CORE)	
111	4-245-194-01	SHEET, FL	
112	4-245-264-01	GUIDE (I BASS)	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

7-4. FRONT PANEL SECTION-3



Ref. No.	Part No.	Description	Remark
151	4-245-193-01	RING (BASS)	
152	4-245-199-91	WINDOW, DISPLAY	
153	4-233-980-01	RUBBER FOOT	
154	4-245-171-01	KEY (CD) (DISC CHANGE. 1. 2. 3. ⏏)	
155	4-245-172-01	KEY (FUN) (TAPE A/B. TUNER BAND. VIDEO/AUX. CD. ►. ■)	
158	X-4955-560-1	KEY ASSY (POWER)	
159	X-4955-572-1	KEY ASSY (MP3) (◄◄. ❚❚. ►►. SYNC DUB. ● REC/REC MUTE. i-BASS)	

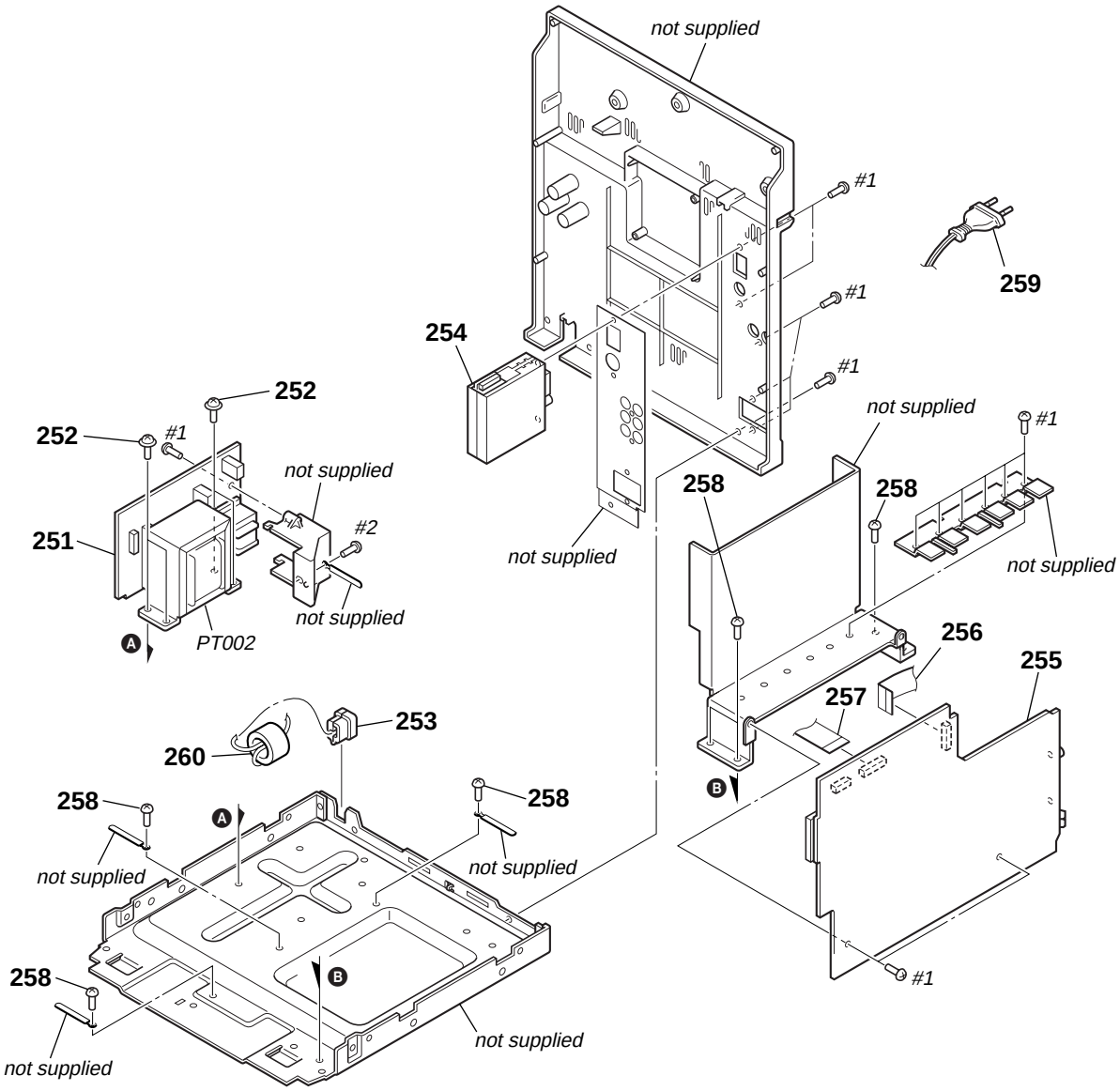
7-5. FRONT PANEL SECTION-4



Ref. No.	Part No.	Description	Remark
201	4-245-198-01	WINDOW (2), CASSETTE	
202	4-245-160-01	BOX, CASSETTE (2)	
203	4-245-196-01	SPRING (BOX CASS R), TORSION	
204	4-245-197-01	WINDOW (1), CASSETTE	
205	4-245-159-01	BOX, CASSETTE (1)	
206	4-245-195-01	SPRING (BOX CASS L), TORSION	

Ref. No.	Part No.	Description	Remark
207	4-245-161-31	CABINET, FRONT	
208	4-231-836-01	SPRING (HEART CAM-A)	
209	4-231-841-01	SPRING (HEART CAM-B)	
210	4-224-104-41	DAMPER	
211	4-231-824-01	CAM (A), HEART	
212	4-231-825-01	CAM (B), HEART	

7-6. CHASSIS SECTION

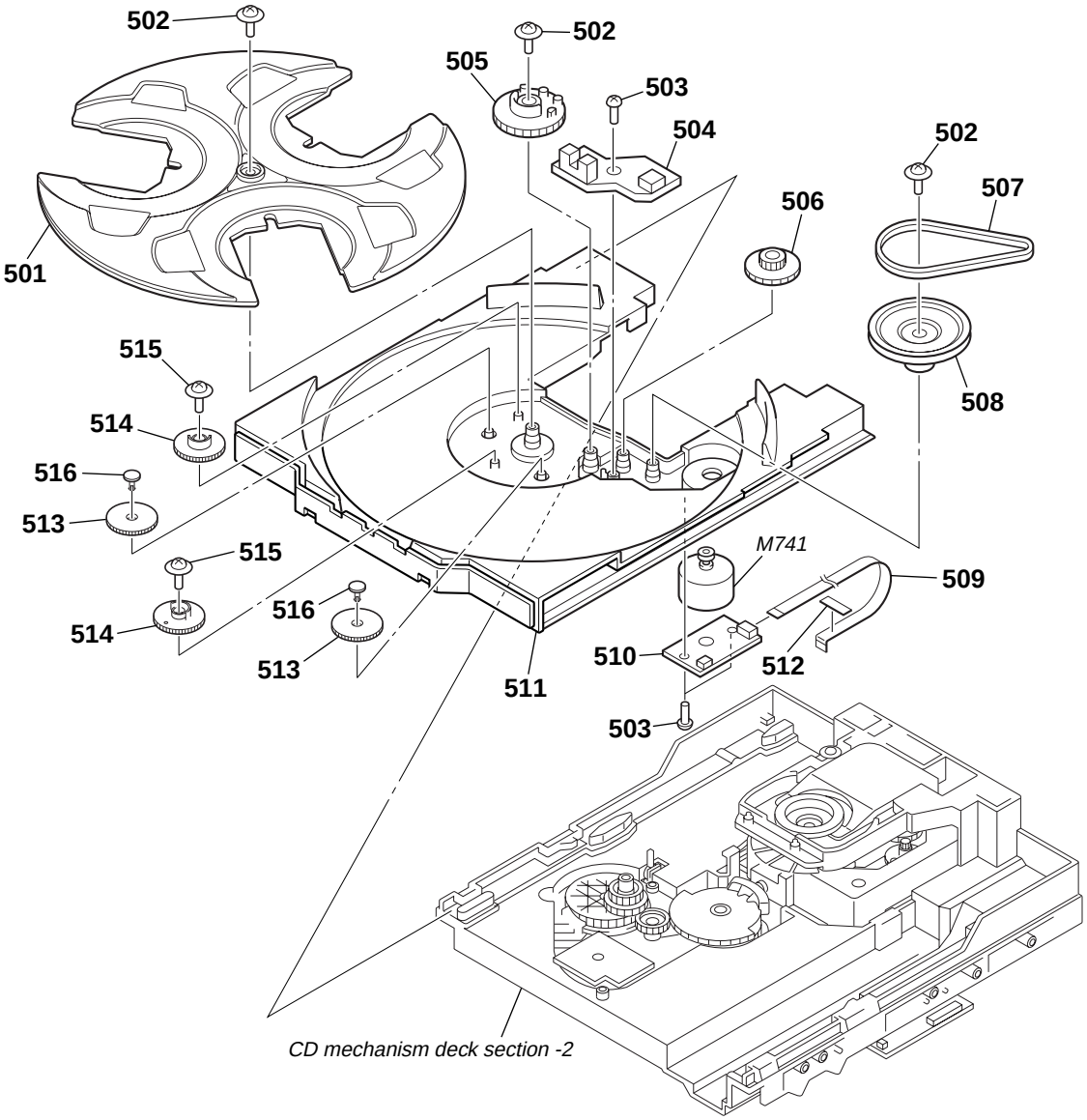


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
251	1-688-399-12	PT BOARD	
252	4-242-527-01	S-SCREW, ITC+4-8 R	
253	3-703-244-11	BUSHING (2104), CORD	
254	1-693-616-11	TUNER PACK (FM/AM)	
255	A-4748-390-A	MAIN BOARD, COMPLETE	
256	1-773-007-11	WIRE (FLAT TYPE) (15 CORE)	
257	1-773-131-11	WIRE (FLAT TYPE) (19 CORE)	

Ref. No.	Part No.	Description	Remark
258	4-242-539-01	BVIT3B+3-8R W/O SLOT	
⚠259	1-757-140-11	CORD, POWER	
260	1-400-285-11	F-BEAD, E2515MRT	
⚠PT002	1-439-966-11	TRANSFORMER, POWER	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#2	7-685-872-09	SCREW +BVTT 3X8 (S)	

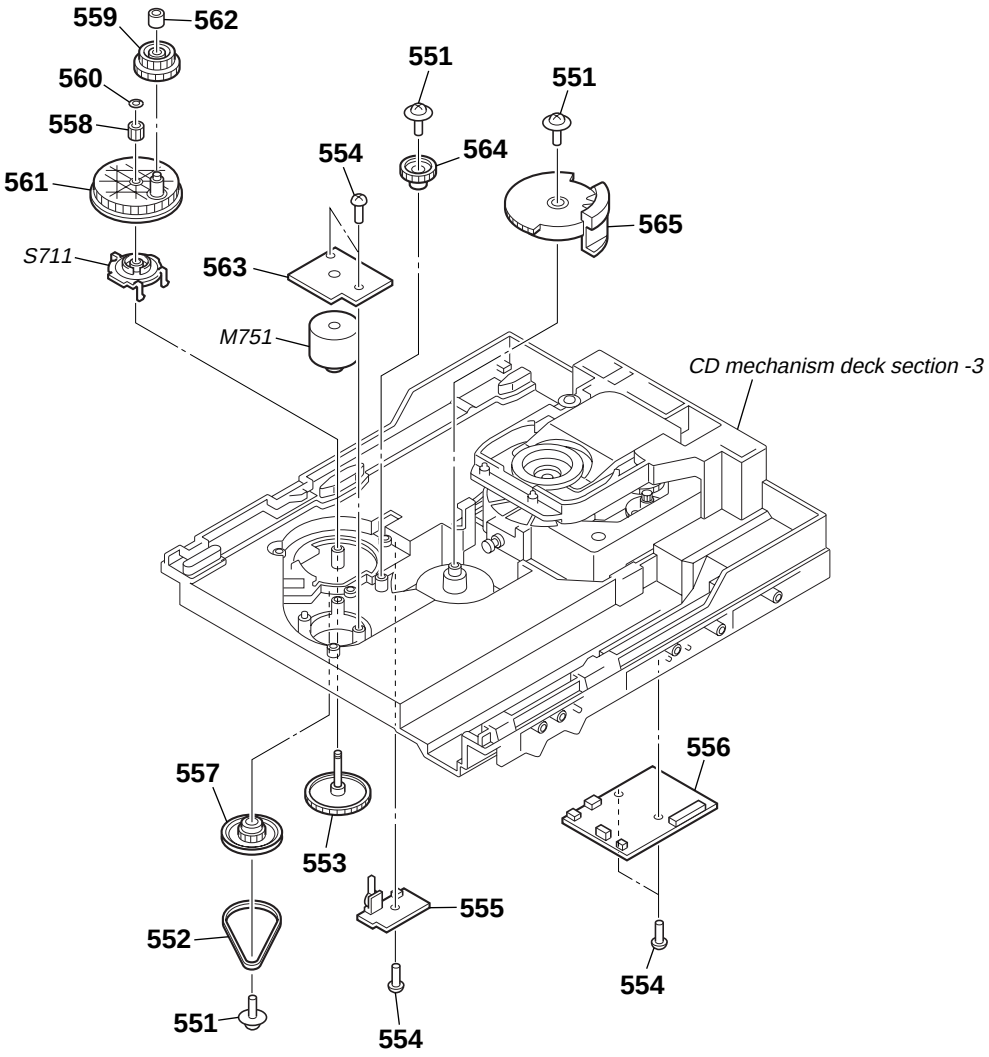
7-7. CD MECHANISM DECK SECTION-1 (CDM74S-K6BD71A)



CD mechanism deck section -2

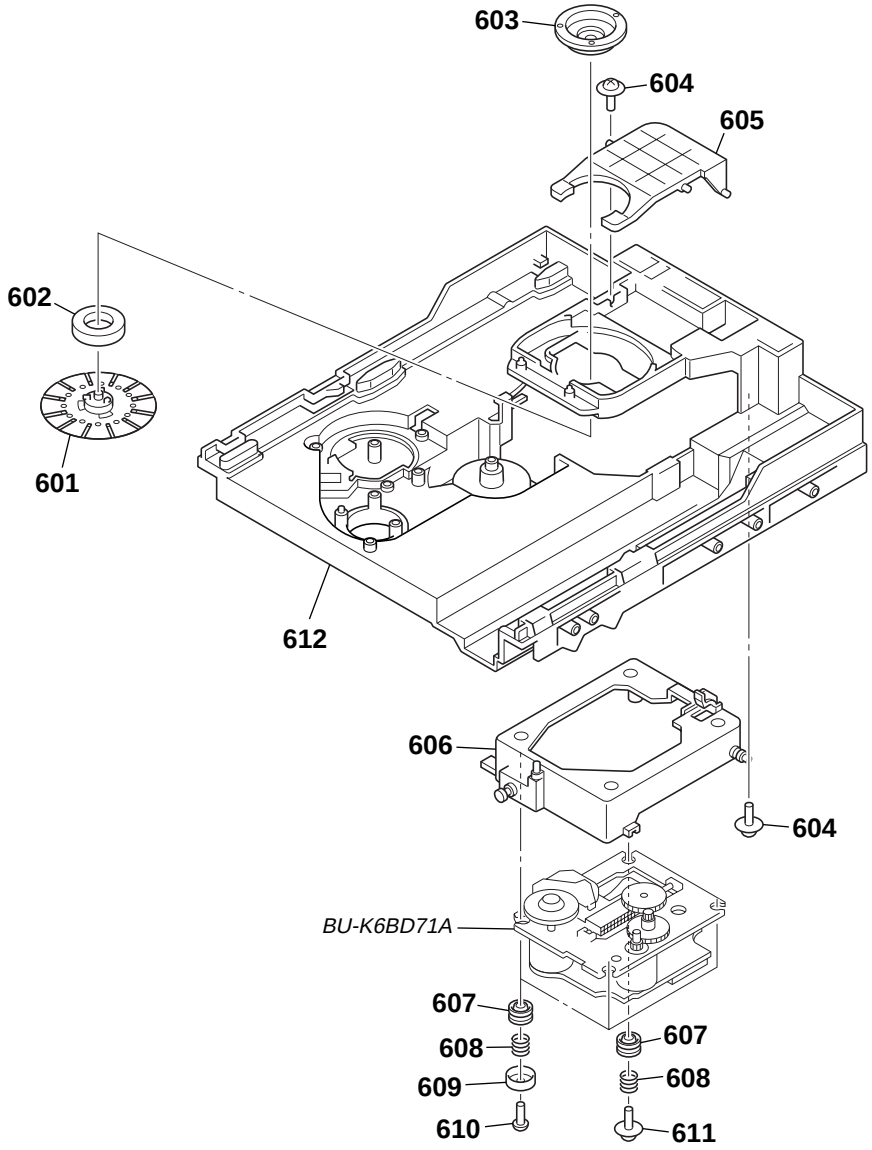
Ref. No.	Part No.	Description	Remark
501	4-243-816-01	TRAY	
502	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING	
503	4-218-253-21	SCREW (M2.6), +BTTP	
504	1-687-132-11	SENSOR BOARD	
505	4-243-819-01	GEAR (GENEVA)	
506	4-243-820-01	GEAR (TABLE)	
507	4-243-823-01	BELT (TABLE)	
508	4-243-821-01	PULLEY (TABLE)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

7-8. CD MECHANISM DECK SECTION-2 (CDM74S-K6BD71A)



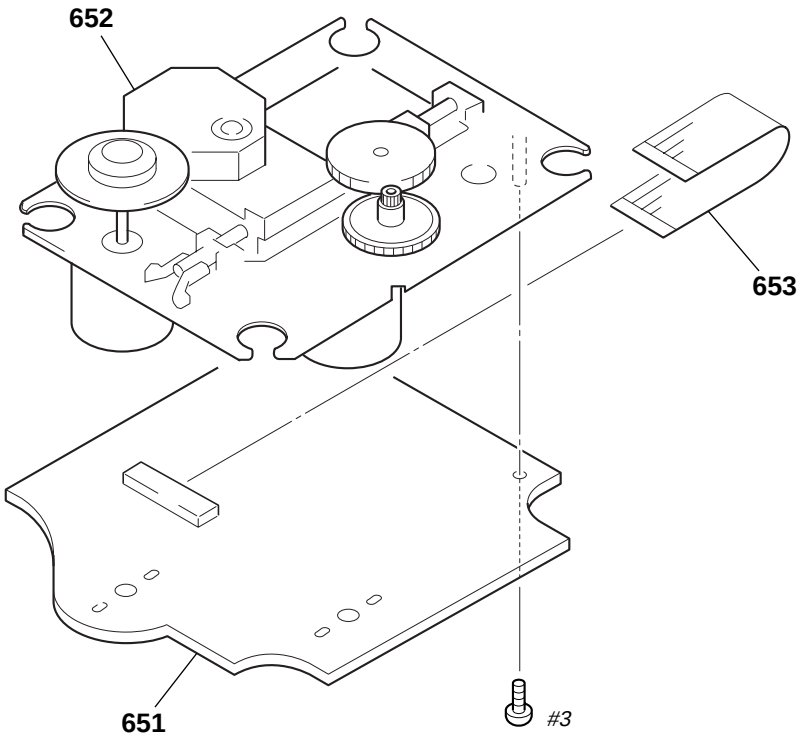
Ref. No.	Part No.	Description	Remark
551	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING	
552	4-244-034-01	BELT (LOADING)	
553	4-224-613-01	GEAR (SHAFT)	
554	4-218-253-31	SCREW (M2.6), +BTTP	
555	1-687-669-11	SW BOARD	
556	1-687-135-11	DRIVER BOARD	
557	4-225-844-01	GEAR (LOADING A)	
558	4-224-611-01	GEAR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

7-9. CD MECHANISM DECK SECTION-3 (CDM74S-K6BD71A)



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

7-10. BASE UNIT SECTION (BU-K6BD71A)



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

Ref. No.	Part No.	Description	Remark
651	A-4732-699-A	BD BOARD, COMPLETE	
⚠652	A-4735-357-A	BASE ASSY, OP (KSM-213D)	
653	1-823-859-11	WIRE (FLAT TYPE) (16 CORE)	
#3	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	

SECTION 8
ELECTRICAL PARTS LIST

BD

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA. . : μA. . uPA. . : μPA. .
  uPB. . : μPB. . uPC. . : μPC. .
  uPD. . : μPD. .
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark ⚠ 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
	A-4732-699-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C702	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C703	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C704	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C705	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C706	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C707	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C708	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C709	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C710	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C711	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C712	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C713	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C714	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C715	1-126-401-21	ELECT CHIP	1uF	20%	50V
C716	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C717	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C718	1-115-156-11	CERAMIC CHIP	1uF		10V
C719	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C720	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C721	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C722	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C723	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C729	1-128-360-11	ELECT CHIP	220uF	20%	10V
C732	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C733	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C734	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C735	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C741	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C742	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C743	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C744	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C746	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C747	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C748	1-128-360-11	ELECT CHIP	220uF	20%	10V
C753	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C754	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C756	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C802	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C803	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C804	1-162-945-11	CERAMIC CHIP	22PF	5%	50V
C805	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C806	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C807	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C810	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C811	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C812	1-115-156-11	CERAMIC CHIP	1uF		10V
C813	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C814	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C815	1-128-360-11	ELECT CHIP	220uF	20%	10V
C816	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C817	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C823	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C824	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C825	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C829	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C830	1-162-945-11	CERAMIC CHIP	22PF	5%	50V
C831	1-162-945-11	CERAMIC CHIP	22PF	5%	50V
C834	1-128-360-11	ELECT CHIP	220uF	20%	10V
C835	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C837	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C843	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C844	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C856	1-115-156-11	CERAMIC CHIP	1uF		10V
C857	1-162-945-11	CERAMIC CHIP	22PF	5%	50V
C858	1-162-945-11	CERAMIC CHIP	22PF	5%	50V
C859	1-162-945-11	CERAMIC CHIP	22PF	5%	50V
C860	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
CN708	1-817-244-11	CONNECTOR, FFC 16P			
CN710	1-778-874-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P			
		< FERRITE BEAD >			
FB701	1-550-907-21	FERRITE	0uH		
FB707	1-550-907-21	FERRITE	0uH		
FB708	1-550-907-21	FERRITE	0uH		
FB801	1-550-907-21	FERRITE	0uH		
FB802	1-550-907-21	FERRITE	0uH		
FB803	1-550-907-21	FERRITE	0uH		
FB804	1-550-907-21	FERRITE	0uH		
FB805	1-550-907-21	FERRITE	0uH		
FB806	1-550-907-21	FERRITE	0uH		

BD CD KEY DRIVER

Ref. No.	Part No.	Description			Remark
FB807	1-550-907-21	FERRITE	0uH		
FB808	1-550-907-21	FERRITE	0uH		
		< IC >			
IC721	6-701-796-01	IC LC78646E-E			
IC722	6-704-220-01	IC BA5836FP			
IC801	6-704-008-01	IC LC78684E-E			
IC802	6-704-009-01	IC LC32V4265CT-25-MPB-E			
IC803	6-704-007-01	IC MM1571J			
		< TRANSISTOR >			
Q701	8-729-054-57	TRANSISTOR	KTN2907AS-RTK		
		< RESISTOR >			
R701	1-216-841-11	METAL CHIP	47K	5%	1/10W
R702	1-216-835-11	METAL CHIP	15K	5%	1/10W
R703	1-216-835-11	METAL CHIP	15K	5%	1/10W
R704	1-216-835-11	METAL CHIP	15K	5%	1/10W
R705	1-216-835-11	METAL CHIP	15K	5%	1/10W
R706	1-216-841-11	METAL CHIP	47K	5%	1/10W
R707	1-216-797-11	METAL CHIP	10	5%	1/10W
R708	1-216-833-11	METAL CHIP	10K	5%	1/10W
R709	1-216-838-11	METAL CHIP	27K	5%	1/10W
R711	1-216-815-11	METAL CHIP	330	5%	1/10W
R713	1-216-821-11	METAL CHIP	1K	5%	1/10W
R714	1-216-809-11	METAL CHIP	100	5%	1/10W
R715	1-216-809-11	METAL CHIP	100	5%	1/10W
R716	1-216-809-11	METAL CHIP	100	5%	1/10W
R717	1-216-809-11	METAL CHIP	100	5%	1/10W
R718	1-216-809-11	METAL CHIP	100	5%	1/10W
R719	1-216-809-11	METAL CHIP	100	5%	1/10W
R720	1-216-809-11	METAL CHIP	100	5%	1/10W
R721	1-216-809-11	METAL CHIP	100	5%	1/10W
R722	1-216-821-11	METAL CHIP	1K	5%	1/10W
R725	1-216-819-11	METAL CHIP	680	5%	1/10W
R726	1-216-819-11	METAL CHIP	680	5%	1/10W
R727	1-216-809-11	METAL CHIP	100	5%	1/10W
R728	1-216-841-11	METAL CHIP	47K	5%	1/10W
R729	1-216-834-11	METAL CHIP	12K	5%	1/10W
R730	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R731	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R732	1-216-864-11	METAL CHIP	0	5%	1/10W
R738	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R739	1-216-864-11	METAL CHIP	0	5%	1/10W
R740	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R741	1-216-864-11	METAL CHIP	0	5%	1/10W
R744	1-216-845-11	METAL CHIP	100K	5%	1/10W
R745	1-216-809-11	METAL CHIP	100	5%	1/10W
R746	1-216-803-11	METAL CHIP	33	5%	1/10W
R747	1-216-803-11	METAL CHIP	33	5%	1/10W
R760	1-216-809-11	METAL CHIP	100	5%	1/10W
R765	1-216-857-11	METAL CHIP	1M	5%	1/10W
R801	1-216-809-11	METAL CHIP	100	5%	1/10W
R802	1-216-809-11	METAL CHIP	100	5%	1/10W
R803	1-216-809-11	METAL CHIP	100	5%	1/10W
R804	1-216-809-11	METAL CHIP	100	5%	1/10W
R805	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R806	1-216-809-11	METAL CHIP	100	5%	1/10W
R807	1-216-809-11	METAL CHIP	100	5%	1/10W
R817	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R818	1-216-811-11	METAL CHIP	150	5%	1/10W
R819	1-216-821-11	METAL CHIP	1K	5%	1/10W
R820	1-216-821-11	METAL CHIP	1K	5%	1/10W
R823	1-216-809-11	METAL CHIP	100	5%	1/10W
R824	1-216-809-11	METAL CHIP	100	5%	1/10W
R825	1-216-809-11	METAL CHIP	100	5%	1/10W
R826	1-216-809-11	METAL CHIP	100	5%	1/10W
R827	1-216-809-11	METAL CHIP	100	5%	1/10W
R828	1-216-809-11	METAL CHIP	100	5%	1/10W
R829	1-216-809-11	METAL CHIP	100	5%	1/10W
R832	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R833	1-216-809-11	METAL CHIP	100	5%	1/10W
R834	1-216-809-11	METAL CHIP	100	5%	1/10W
R860	1-216-809-11	METAL CHIP	100	5%	1/10W
		< SWITCH >			
S701	1-771-853-11	SWITCH, DETECTION (LIMIT IN)			
		< VIBRATOR >			
X701	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)			
**********					
	1-688-379-11	CD KEY BOARD			
		**********			
		< CONNECTOR >			
CN302	1-784-766-11	CONNECTOR, FFC 5P			
		< RESISTOR >			
R326	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R327	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R328	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R329	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
		< SWITCH >			
S319	1-762-875-21	SWITCH, KEYBOARD (OPEN/CLOSE ⏏)			
S320	1-762-875-21	SWITCH, KEYBOARD (DISC DIRECT PLAY 3)			
S321	1-762-875-21	SWITCH, KEYBOARD (DISC DIRECT PLAY 2)			
S322	1-762-875-21	SWITCH, KEYBOARD (DISC DIRECT PLAY 1)			
S323	1-762-875-21	SWITCH, KEYBOARD (DISC CHANGE)			
**********					
	1-687-135-11	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	30%	16V
C751	1-162-306-11	CERAMIC	0.01uF	30%	16V
C752	1-164-159-21	CERAMIC	0.1uF		50V

DRIVER HEADPHONE KEY

Ref. No.	Part No.	Description			Remark
		< 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-T-77-5.1A			
D711	8-719-109-69	DIODE MTZJ-T-77-3.6B			
		< IC >			
IC701	8-759-598-69	IC BA6956AN			
IC712	8-759-598-69	IC BA6956AN			
		< TRANSISTOR >			
Q731	8-729-029-66	TRANSISTOR	DTC114ESA-TP		
		< RESISTOR >			
R701	1-249-413-11	CARBON	470	5%	1/4W
R702	1-247-807-31	CARBON	100	5%	1/4W
R711	1-249-417-11	CARBON	1K	5%	1/4W
R712	1-249-425-11	CARBON	4.7K	5%	1/4W
R713	1-249-433-11	CARBON	22K	5%	1/4W
R721	1-249-425-11	CARBON	4.7K	5%	1/4W
R722	1-249-425-11	CARBON	4.7K	5%	1/4W
R723	1-249-425-11	CARBON	4.7K	5%	1/4W
R731	1-247-807-31	CARBON	100	5%	1/4W
R732	1-249-429-11	CARBON	10K	5%	1/4W
R733	1-249-417-11	CARBON	1K	5%	1/4W
R734	1-249-430-11	CARBON	12K	5%	1/4W
R735	1-247-807-31	CARBON	100	5%	1/4W
R751	1-249-425-11	CARBON	4.7K	5%	1/4W
**********					
	1-688-400-12	HEADPHONE BOARD			
		**********			
		< CAPACITOR >			
C250	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C906	1-162-282-31	CERAMIC CHIP	100PF	10%	50V
C907	1-162-282-31	CERAMIC CHIP	100PF	10%	50V
		< JACK >			
J221	1-785-448-21	JACK (PHONES)			
		< RESISTOR >			
R221	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R222	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R225	1-260-320-11	CARBON	220	5%	1/2W
R226	1-260-320-11	CARBON	220	5%	1/2W
		< CONNECTOR >			
WH230	1-816-818-11	HLDR, WIRE 2.5-5P			
**********					

Ref. No.	Part No.	Description			Remark
	A-4732-924-A	KEY BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C801	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C802	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C803	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C804	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C805	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C806	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C807	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C808	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN301	1-784-766-11	CONNECTOR, FFC 5P			
CN303	1-784-784-11	CONNECTOR, FFC 23P			
		< LED >			
LED201	8-719-053-43	LED SLR-325VCT31 (i-BASS)			
LED901	6-500-641-01	LED SLI-325URC (⏻ STANDBY/ON)			
		< RESISTOR >			
R231	1-216-198-00	RES-CHIP	1K	5%	1/8W
R301	1-216-864-11	SHORT CHIP	0		
R302	1-216-821-11	METAL CHIP	1K	5%	1/10W
R303	1-216-820-11	METAL CHIP	820	5%	1/10W
R304	1-216-821-11	METAL CHIP	1K	5%	1/10W
R305	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R306	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R311	1-216-864-11	SHORT CHIP	0		
R312	1-216-821-11	METAL CHIP	1K	5%	1/10W
R313	1-216-820-11	METAL CHIP	820	5%	1/10W
R314	1-216-821-11	METAL CHIP	1K	5%	1/10W
R315	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R316	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R317	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R318	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R321	1-216-864-11	SHORT CHIP	0		
R322	1-216-821-11	METAL CHIP	1K	5%	1/10W
R323	1-216-820-11	METAL CHIP	820	5%	1/10W
R324	1-216-821-11	METAL CHIP	1K	5%	1/10W
R325	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R801	1-216-833-11	METAL CHIP	10K	5%	1/10W
R802	1-216-833-11	METAL CHIP	10K	5%	1/10W
R803	1-216-797-11	METAL CHIP	10	5%	1/10W
R804	1-216-797-11	METAL CHIP	10	5%	1/10W
R805	1-216-833-11	METAL CHIP	10K	5%	1/10W
R806	1-216-833-11	METAL CHIP	10K	5%	1/10W
R807	1-216-797-11	METAL CHIP	10	5%	1/10W
R808	1-216-797-11	METAL CHIP	10	5%	1/10W
R809	1-216-833-11	METAL CHIP	10K	5%	1/10W
R810	1-216-833-11	METAL CHIP	10K	5%	1/10W
R811	1-216-797-11	METAL CHIP	10	5%	1/10W
R812	1-216-797-11	METAL CHIP	10	5%	1/10W
R813	1-216-833-11	METAL CHIP	10K	5%	1/10W
R814	1-216-833-11	METAL CHIP	10K	5%	1/10W
R815	1-216-797-11	METAL CHIP	10	5%	1/10W

KEY MAIN

Ref. No.	Part No.	Description			Remark
R816	1-216-797-11	METAL CHIP	10	5%	1/10W
		< SWITCH >			
S301	1-762-875-21	SWITCH, KEYBOARD (PLAY/PRESET ►)			
S302	1-762-875-21	SWITCH, KEYBOARD (STOP/CLEAR ■)			
S303	1-762-875-21	SWITCH, KEYBOARD (TUNING DOWN, ◄◄)			
S304	1-762-875-21	SWITCH, KEYBOARD (PAUSE/SET ❚❚)			
S305	1-762-875-21	SWITCH, KEYBOARD (TUNING UP, ►►)			
S306	1-762-875-21	SWITCH, KEYBOARD (i-BASS)			
S307	1-762-875-21	SWITCH, KEYBOARD (MODE)			
S308	1-762-875-21	SWITCH, KEYBOARD (ENTER)			
S309	1-762-875-21	SWITCH, KEYBOARD (CD)			
S310	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)			
S311	1-762-875-21	SWITCH, KEYBOARD (TUNER BAND)			
S312	1-762-875-21	SWITCH, KEYBOARD (VIDEO/AUX)			
S313	1-762-875-21	SWITCH, KEYBOARD (● REC/REC MUTING)			
S314	1-762-875-21	SWITCH, KEYBOARD (SYNC DUB)			
S315	1-762-875-21	SWITCH, KEYBOARD (POWER)			
S316	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)			
S317	1-762-875-21	SWITCH, KEYBOARD (ALBUM ▼, PTY)			
S318	1-762-875-21	SWITCH, KEYBOARD (ALBUM ▲)			
S801	1-786-396-11	SW, RTRY EC12E24604-30MM (VOLUME)			
S802	1-786-396-11	SW, RTRY EC12E24604-30MM (BASS)			
S803	1-477-824-11	ENCODER, ROTARY (TREBLE)			
S804	1-786-418-11	SW, RTRY RE0123PVB30F (MULTI JOG)			
**********					
	A-4748-390-A	MAIN BOARD, COMPLETE **********			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S			
		< CAPACITOR/SHORT >			
C005	1-126-944-11	ELECT	3300uF	20%	25V
C006	1-126-944-11	ELECT	3300uF	20%	25V
C007	1-126-944-11	ELECT	3300uF	20%	25V
C008	1-126-942-61	ELECT	1000uF	20%	25V
C015	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C016	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C017	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C018	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C022	1-126-933-11	ELECT	100uF	20%	16V
C023	1-126-948-11	ELECT	100uF	20%	35V
C026	1-126-947-11	ELECT	47uF	20%	25V
C029	1-126-947-11	ELECT	47uF	20%	10V
C030	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C031	1-126-947-11	ELECT	47uF	20%	25V
C032	1-104-663-11	ELECT	33uF	20%	25V
C041	1-126-948-11	ELECT	100uF	20%	35V
C042	1-126-948-11	ELECT	100uF	20%	35V
C043	1-126-948-11	ELECT	100uF	20%	35V
C044	1-126-948-11	ELECT	100uF	20%	35V
C045	1-126-968-11	ELECT	100uF	20%	50V
C046	1-126-968-11	ELECT	100uF	20%	50V
C047	1-104-665-11	ELECT	100uF	20%	10V
C061	1-126-947-11	ELECT	47uF	20%	25V
C062	1-126-960-11	ELECT	1uF	20%	50V
C063	1-126-960-11	ELECT	1uF	20%	50V

Ref. No.	Part No.	Description			Remark
C097	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C103	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C104	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C105	1-126-961-11	ELECT	2.2uF	20%	50V
C106	1-126-961-11	ELECT	2.2uF	20%	50V
C109	1-126-964-11	ELECT	10uF	20%	50V
C110	1-126-964-11	ELECT	10uF	20%	50V
C113	1-126-966-11	ELECT	33uF	20%	50V
C114	1-126-966-11	ELECT	33uF	20%	50V
C115	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C116	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C117	1-126-927-11	CERAMIC CHIP	100PF	5%	50V
C118	1-126-927-11	CERAMIC CHIP	100PF	5%	50V
C119	1-126-927-11	CERAMIC CHIP	100PF	5%	50V
C120	1-126-927-11	CERAMIC CHIP	100PF	5%	50V
C121	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C122	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C125	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C126	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C127	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C128	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C129	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C130	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C131	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C132	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C133	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C134	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C135	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C136	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C181	1-126-960-11	ELECT	1uF	20%	50V
C182	1-126-960-11	ELECT	1uF	20%	50V
C201	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C202	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C203	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C204	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C239	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C240	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C241	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C243	1-165-621-11	CERAMIC CHIP	0.1 uF		50V
C244	1-165-621-11	CERAMIC CHIP	0.1 uF		50V
C281	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C282	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C301	1-164-647-11	CERAMIC CHIP	0.0012uF	10%	50V
C302	1-164-647-11	CERAMIC CHIP	0.0012uF	10%	50V
C303	1-164-647-11	CERAMIC CHIP	0.0012uF	10%	50V
C304	1-164-647-11	CERAMIC CHIP	0.0012uF	10%	50V
C305	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C306	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C311	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C312	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C313	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C314	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C315	1-130-487-00	MYLAR	0.022uF	5%	50V
C316	1-130-485-00	MYLAR	0.015uF	5%	50V
C317	1-130-485-00	MYLAR	0.015uF	5%	50V
C318	1-130-479-00	MYLAR	0.0047uF	5%	50V
C319	1-126-964-11	ELECT	10uF	20%	50V
C320	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C321	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C322	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C601	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C602	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C603	1-104-665-11	ELECT	100uF	20%	10V
C604	1-104-665-11	ELECT	100uF	20%	10V
C605	1-130-481-00	MYLAR	0.0068uF	5%	50V
C606	1-130-481-00	MYLAR	0.0068uF	5%	50V
C607	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C608	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C609	1-126-960-11	ELECT	1uF	20%	50V
C610	1-126-960-11	ELECT	1uF	20%	50V
C611	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C612	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C613	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C614	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C621	1-164-218-11	CERAMIC CHIP	180PF	0.25PF	50V
C622	1-164-218-11	CERAMIC CHIP	180PF	0.25PF	50V
C623	1-164-479-11	CERAMIC CHIP	0.0056uF	10%	50V
C624	1-164-479-11	CERAMIC CHIP	0.0056uF	10%	50V
C625	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V
C626	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V
C641	1-126-957-11	ELECT	0.22uF	20%	50V
C642	1-126-957-11	ELECT	0.22uF	20%	50V
C643	1-126-957-11	ELECT	0.22uF	20%	50V
C644	1-126-957-11	ELECT	0.22uF	20%	50V
C645	1-216-864-11	SHORT CHIP	0		
C646	1-216-864-11	SHORT CHIP	0		
C651	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C652	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C653	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C654	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C655	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C661	1-126-934-11	ELECT	220uF	20%	10V
C662	1-126-947-11	ELECT	47uF	20%	25V
C663	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C664	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C668	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C669	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C670	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C671	1-126-959-11	ELECT	0.47uF	20%	50V
C672	1-126-959-11	ELECT	0.47uF	20%	50V
C673	1-164-392-11	CERAMIC CHIP	390PF	5%	50V
C674	1-164-392-11	CERAMIC CHIP	390PF	5%	50V
C675	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C676	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C677	1-119-818-31	ELECT	0.33uF	20%	50V
C678	1-119-818-31	ELECT	0.33uF	20%	50V
C679	1-126-934-11	ELECT	220uF	20%	10V
C680	1-130-499-00	MYLAR	0.22uF	5%	50V
C681	1-130-499-00	MYLAR	0.22uF	5%	50V
C682	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C683	1-126-941-11	ELECT	470uF	20%	25V
C684	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C685	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C686	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C687	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C688	1-126-964-11	ELECT	10uF	20%	50V
C689	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C693	1-126-960-11	ELECT	1uF	20%	50V
C694	1-126-960-11	ELECT	1uF	20%	50V
C695	1-126-935-11	ELECT	470uF	20%	10V
C698	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C699	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C730	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C731	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C732	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C733	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C734	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C764	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C765	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C766	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C767	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C801	1-126-964-11	ELECT	10uF	20%	50V
C802	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C901	1-127-876-11	CERAMIC CHIP	0.01uF	10%	50V
C902	1-127-876-11	CERAMIC CHIP	0.01uF	10%	50V
C903	1-127-888-11	CERAMIC CHIP	0.1uF	10%	50V
C904	1-127-888-11	CERAMIC CHIP	0.1uF	10%	50V
C905	1-127-888-11	CERAMIC CHIP	0.1uF	10%	50V

< CONNECTOR >

*	CN301	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
*	CN302	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P
	CN601	1-793-766-11	CONNECTOR, BOARD TO BOARD 30P
	CN691	1-784-780-11	CONNECTOR, FFC 19P
	CN694	1-568-830-11	CONNECTOR, FFC 11P
	CN802	1-784-776-11	CONNECTOR, FFC 15P

< DIODE/SHORT >

	D010	8-719-500-56	DIODE D3SBA20
	D019	8-719-048-61	DIODE EGP20DL-6349
	D020	8-719-048-61	DIODE EGP20DL-6349
	D031	8-719-991-33	DIODE 1SS133T-72
	D032	8-719-988-61	DIODE 1SS355TE-17
	D033	8-719-988-61	DIODE 1SS355TE-17
	D041	6-500-522-21	DIODE 10EDB40-TB3
	D042	6-500-522-21	DIODE 10EDB40-TB3
	D043	6-500-522-21	DIODE 10EDB40-TB3
	D044	6-500-522-21	DIODE 10EDB40-TB3
	D045	8-719-083-87	DIODE UDZSTE-17-33B
	D065	8-719-988-61	DIODE 1SS355TE-17
	D066	8-719-988-61	DIODE 1SS355TE-17
	D069	8-719-988-61	DIODE 1SS355TE-17
	D101	8-719-820-05	DIODE 1SS181-TE85L
	D103	8-719-988-61	DIODE 1SS355TE-17
	D104	8-719-988-61	DIODE 1SS355TE-17
	D105	8-719-820-05	DIODE 1SS181-TE85L
	D106	8-719-820-05	DIODE 1SS181-TE85L
	D107	8-719-801-78	DIODE 1SS184-TE85L
	D108	8-719-801-78	DIODE 1SS184-TE85L
	D109	8-719-046-74	DIODE AU-01Z-WS
	D110	8-719-046-74	DIODE AU-01Z-WS
	D281	8-719-801-78	DIODE 1SS184-TE85L
	D291	8-719-820-05	DIODE 1SS181-TE85L

MAIN

Ref. No.	Part No.	Description	Remark
D292	8-719-801-78	DIODE 1SS184-TE85L	
D301	8-719-820-05	DIODE 1SS181-TE85L	
D661	8-719-083-60	DIODE UDZSTE-174.7B	
D662	8-719-083-60	DIODE UDZSTE-174.7B	
D663	8-719-988-61	DIODE 1SS355TE-17	
D671	8-719-988-61	DIODE 1SS355TE-17	
D691	6-500-522-21	DIODE 10EDB40-TB3	
D692	6-500-522-21	DIODE 10EDB40-TB3	
D693	6-500-522-21	DIODE 10EDB40-TB3	
D694	6-500-522-21	DIODE 10EDB40-TB3	
D695	8-719-988-61	DIODE 1SS355TE-17	
D697	6-500-522-21	DIODE 10EDB40-TB3	
D698	8-719-991-33	DIODE 1SS133T-72	
D801	8-719-069-54	DIODE UDZSTE-175.1B	
		< GROUND TERMINAL >	
* EP001	1-537-738-21	TERMINAL, EARTH	
* EP099	1-537-738-21	TERMINAL, EARTH	
		< FERRITE BEAD/SHORT >	
FB601	1-216-295-00	SHORT CHIP 0	
FB602	1-216-295-00	SHORT CHIP 0	
FB693	1-410-396-71	FERRITE 0.45uH	
		< IC >	
IC001	8-759-701-59	IC TA7809S	
IC002	8-759-701-59	IC TA7809S	
IC003	6-701-760-01	IC uPC3504AHF	
IC601	6-702-895-01	IC BD3881FV	
IC671	6-704-074-01	IC NJM2156M (TE2)	
IC672	8-759-396-78	IC BU2092F-E2	
		< JACK >	
J203	1-694-635-12	TERMINAL BOARD (4P) (SPEAKER)	
J602	1-793-987-11	JACK, PIN 2P (VIDEO/AUX)	
		< DIODE >	
JW690	6-500-522-21	DIODE 10EDB40-TB3	
		< SHORT >	
JR001	1-216-864-11	SHORT CHIP 0	
JR201	1-216-864-11	SHORT CHIP 0	
JR202	1-216-864-11	SHORT CHIP 0	
JR203	1-216-864-11	SHORT CHIP 0	
JR204	1-216-864-11	SHORT CHIP 0	
JR601	1-216-864-11	SHORT CHIP 0	
JR602	1-216-864-11	SHORT CHIP 0	
JR603	1-216-864-11	SHORT CHIP 0	
JR604	1-216-864-11	SHORT CHIP 0	
JR605	1-216-864-11	SHORT CHIP 0	
JR606	1-216-864-11	SHORT CHIP 0	
JR607	1-216-864-11	SHORT CHIP 0	
JR608	1-216-864-11	SHORT CHIP 0	
JR611	1-216-296-11	SHORT CHIP 0	
JR612	1-216-864-11	SHORT CHIP 0	
JR615	1-216-864-11	SHORT CHIP 0	
JR616	1-216-864-11	SHORT CHIP 0	
JR618	1-216-864-11	SHORT CHIP 0	
JR619	1-216-864-11	SHORT CHIP 0	
JR620	1-216-864-11	SHORT CHIP 0	
JR621	1-216-864-11	SHORT CHIP 0	
JR622	1-216-864-11	SHORT CHIP 0	
JR625	1-216-296-11	SHORT CHIP 0	
JR651	1-216-296-11	SHORT CHIP 0	
JR701	1-216-864-11	SHORT CHIP 0	
JR702	1-216-864-11	SHORT CHIP 0	
		< RESISTOR >	
⚠JW002	1-219-122-11	FUSE 0.33 5% 1/4W	
		< COIL >	
L201	1-422-009-13	COIL, AIR-CORE	
L202	1-422-009-13	COIL, AIR-CORE	
L311	1-424-849-11	COIL, OSCILLATION (BIAS)	
L901	1-410-501-11	INDUCTOR 2.2uH	
		< TRANSISTOR >	
Q022	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q023	8-729-201-53	TRANSISTOR 2SA1015TP-GR	
Q024	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q041	8-729-201-53	TRANSISTOR 2SA1015TP-GR	
Q043	8-729-201-53	TRANSISTOR 2SA1015TP-GR	
Q045	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q046	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q047	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q063	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q064	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q101	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q102	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q103	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q104	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q105	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q106	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q107	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q108	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q111	8-729-823-99	TRANSISTOR 2SC2909-AA	
Q112	8-729-823-99	TRANSISTOR 2SC2909-AA	
Q117	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q118	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q119	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q120	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q121	6-550-331-01	TRANSISTOR 2SB1677	
Q122	6-550-331-01	TRANSISTOR 2SB1677	
Q123	6-550-332-01	TRANSISTOR 2SD2619	
Q124	6-550-332-01	TRANSISTOR 2SD2619	
Q129	8-729-216-31	TRANSISTOR 2SA1163G-TE85L	
Q130	8-729-216-31	TRANSISTOR 2SA1163G-TE85L	
Q181	8-729-052-79	TRANSISTOR 2SD1306NETL	
Q182	8-729-052-79	TRANSISTOR 2SD1306NETL	
Q183	8-729-600-22	TRANSISTOR 2SA1235TP-1EF	
Q281	8-729-216-31	TRANSISTOR 2SA1163G-TE85L	
Q282	8-729-271-31	TRANSISTOR 2SC2713G-TE85L	
Q291	8-729-027-23	TRANSISTOR DTA114EKA-T146	

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

Ref. No.	Part No.	Description			Remark
Q292	8-729-216-31	TRANSISTOR	2SA1163G-TE85L		
Q301	6-550-290-01	FET	2SJ460		
Q302	6-550-290-01	FET	2SJ460		
Q303	8-729-048-99	FET	2SK2541-T		
Q304	8-729-048-99	FET	2SK2541-T		
Q305	6-550-290-01	FET	2SJ460		
Q306	6-550-290-01	FET	2SJ460		
Q307	8-729-048-99	FET	2SK2541-T		
Q308	8-729-048-99	FET	2SK2541-T		
Q309	8-729-048-99	FET	2SK2541-T		
Q310	8-729-011-92	TRANSISTOR	2SC2001TP-K1K2		
Q311	8-729-201-53	TRANSISTOR	2SA1015TP-GR		
Q312	8-729-120-28	TRANSISTOR	2SC3052EF-T1-LEF		
Q601	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q671	8-729-045-62	FET	2SK2158-T2B		
Q672	8-729-045-62	FET	2SK2158-T2B		
Q673	8-729-045-62	FET	2SK2158-T2B		
Q674	8-729-045-62	FET	2SK2158-T2B		
Q675	8-729-045-62	FET	2SK2158-T2B		
Q676	8-729-045-62	FET	2SK2158-T2B		
Q677	8-729-045-62	FET	2SK2158-T2B		
		< RESISTOR >			
R001	1-219-107-11	METAL CHIP	1.5	5%	1/8W
R004	1-219-107-11	METAL CHIP	1.5	5%	1/8W
R005	1-219-107-11	METAL CHIP	1.5	5%	1/8W
R008	1-219-107-11	METAL CHIP	1.5	5%	1/8W
R024	1-216-184-00	RES-CHIP	270	5%	1/8W
R025	1-216-184-00	RES-CHIP	270	5%	1/8W
R026	1-216-190-00	RES-CHIP	470	5%	1/8W
R027	1-216-190-00	RES-CHIP	470	5%	1/8W
R028	1-216-190-00	RES-CHIP	470	5%	1/8W
R029	1-216-190-00	RES-CHIP	470	5%	1/8W
R030	1-216-190-00	RES-CHIP	470	5%	1/8W
R031	1-216-833-11	METAL CHIP	10K	5%	1/10W
R032	1-216-841-11	METAL CHIP	47K	5%	1/10W
R033	1-216-843-11	METAL CHIP	68K	5%	1/10W
R035	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R036	1-216-836-11	METAL CHIP	18K	5%	1/10W
R038	1-216-296-11	SHORT CHIP	0		
R041	1-216-845-11	METAL CHIP	100K	5%	1/10W
R042	1-216-845-11	METAL CHIP	100K	5%	1/10W
R043	1-216-845-11	METAL CHIP	100K	5%	1/10W
R044	1-216-845-11	METAL CHIP	100K	5%	1/10W
R045	1-216-168-00	METAL CHIP	56	5%	1/8W
R046	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R047	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R048	1-216-295-00	SHORT CHIP	0		
R049	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R050	1-216-001-00	METAL CHIP	10	5%	1/10W
R051	1-216-097-11	RES-CHIP	100K	5%	1/10W
R070	1-216-838-11	METAL CHIP	27K	5%	1/10W
R071	1-216-838-11	METAL CHIP	27K	5%	1/10W
R072	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R073	1-216-838-11	METAL CHIP	27K	5%	1/10W
R074	1-216-838-11	METAL CHIP	27K	5%	1/10W
R075	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R076	1-216-821-11	METAL CHIP	1K	5%	1/10W
R077	1-216-821-11	METAL CHIP	1K	5%	1/10W
R078	1-216-834-11	METAL CHIP	12K	5%	1/10W
R079	1-216-834-11	METAL CHIP	12K	5%	1/10W
R080	1-216-845-11	METAL CHIP	100K	5%	1/10W
R092	1-216-809-11	METAL CHIP	100	5%	1/10W
R093	1-216-835-11	METAL CHIP	15K	5%	1/10W
R094	1-216-833-11	METAL CHIP	10K	5%	1/10W
R095	1-216-835-11	METAL CHIP	15K	5%	1/10W
R096	1-216-839-11	METAL CHIP	33K	5%	1/10W
R097	1-216-839-11	METAL CHIP	33K	5%	1/10W
R105	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R107	1-216-838-11	METAL CHIP	27K	5%	1/10W
R108	1-216-838-11	METAL CHIP	27K	5%	1/10W
R109	1-216-809-11	METAL CHIP	100	5%	1/10W
R110	1-216-809-11	METAL CHIP	100	5%	1/10W
R113	1-216-821-11	METAL CHIP	1K	5%	1/10W
R114	1-216-821-11	METAL CHIP	1K	5%	1/10W
R115	1-216-083-00	METAL CHIP	27K	5%	1/10W
R116	1-216-083-00	METAL CHIP	27K	5%	1/10W
R117	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R118	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R119	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R120	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R121	1-216-198-00	RES-CHIP	1K	5%	1/8W
R122	1-216-198-00	RES-CHIP	1K	5%	1/8W
R123	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R124	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R125	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R126	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R127	1-216-809-11	METAL CHIP	100	5%	1/10W
R128	1-216-809-11	METAL CHIP	100	5%	1/10W
R129	1-216-809-11	METAL CHIP	100	5%	1/10W
R130	1-216-809-11	METAL CHIP	100	5%	1/10W
R131	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R132	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R133	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R134	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R137	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R138	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R139	1-216-864-11	SHORT CHIP	0		
R140	1-216-864-11	SHORT CHIP	0		
R141	1-216-841-11	METAL CHIP	47K	5%	1/10W
R142	1-216-841-11	METAL CHIP	47K	5%	1/10W
R143	1-216-804-11	METAL CHIP	39	5%	1/10W
R144	1-216-804-11	METAL CHIP	39	5%	1/10W
R147	1-216-864-11	SHORT CHIP	0		
R148	1-216-864-11	SHORT CHIP	0		
⚠R149	1-216-361-31	METAL OXIDE	0.22	5%	2W F
⚠R150	1-216-361-31	METAL OXIDE	0.22	5%	2W F
⚠R151	1-216-361-31	METAL OXIDE	0.22	5%	2W F
⚠R152	1-216-361-31	METAL OXIDE	0.22	5%	2W F
R153	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R154	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R155	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R156	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R157	1-216-809-11	METAL CHIP	100	5%	1/10W

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

MAIN

Ref. No.	Part No.	Description			Remark
R158	1-216-809-11	METAL CHIP	100	5%	1/10W
R159	1-216-049-11	RES-CHIP	1K	5%	1/10W
R160	1-216-049-11	RES-CHIP	1K	5%	1/10W
R163	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R164	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R181	1-216-834-11	METAL CHIP	12K	5%	1/10W
R182	1-216-834-11	METAL CHIP	12K	5%	1/10W
R183	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R184	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R185	1-216-843-11	METAL CHIP	68K	5%	1/10W
R186	1-216-841-11	METAL CHIP	47K	5%	1/10W
R201	1-249-393-11	CARBON	10	5%	1/4W
R202	1-249-393-11	CARBON	10	5%	1/4W
R203	1-216-150-11	RES-CHIP	10	5%	1/8W
R204	1-216-150-11	RES-CHIP	10	5%	1/8W
R280	1-216-073-00	RES-CHIP	10K	5%	1/10W
R281	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R282	1-216-834-11	METAL CHIP	12K	5%	1/10W
R283	1-216-833-11	METAL CHIP	10K	5%	1/10W
R284	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R290	1-216-841-11	METAL CHIP	47K	5%	1/10W
R291	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R292	1-216-833-11	METAL CHIP	10K	5%	1/10W
R293	1-216-849-11	METAL CHIP	220K	5%	1/10W
R294	1-216-849-11	METAL CHIP	220K	5%	1/10W
R295	1-216-837-11	METAL CHIP	22K	5%	1/10W
R296	1-216-841-11	METAL CHIP	47K	5%	1/10W
R297	1-216-841-11	METAL CHIP	47K	5%	1/10W
R301	1-216-840-11	METAL CHIP	39K	5%	1/10W
R302	1-216-840-11	METAL CHIP	39K	5%	1/10W
R303	1-216-844-11	METAL CHIP	82K	5%	1/10W
R304	1-216-844-11	METAL CHIP	82K	5%	1/10W
R305	1-216-849-11	METAL CHIP	220K	5%	1/10W
R311	1-216-833-11	METAL CHIP	10K	5%	1/10W
R312	1-216-833-11	METAL CHIP	10K	5%	1/10W
R313	1-216-838-11	METAL CHIP	27K	5%	1/10W
R314	1-216-797-11	METAL CHIP	10	5%	1/10W
R315	1-216-804-11	METAL CHIP	39	5%	1/10W
R316	1-216-833-11	METAL CHIP	10K	5%	1/10W
R317	1-216-821-11	METAL CHIP	1K	5%	1/10W
R318	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R601	1-216-809-11	METAL CHIP	100	5%	1/10W
R602	1-216-809-11	METAL CHIP	100	5%	1/10W
R603	1-216-852-11	METAL CHIP	390K	5%	1/10W
R604	1-216-852-11	METAL CHIP	390K	5%	1/10W
R605	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R606	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R607	1-216-845-11	METAL CHIP	100K	5%	1/10W
R608	1-216-845-11	METAL CHIP	100K	5%	1/10W
R609	1-216-836-11	METAL CHIP	18K	5%	1/10W
R610	1-216-836-11	METAL CHIP	18K	5%	1/10W
R611	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R612	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R615	1-216-835-11	METAL CHIP	15K	5%	1/10W
R616	1-216-835-11	METAL CHIP	15K	5%	1/10W
R617	1-216-835-11	METAL CHIP	15K	5%	1/10W
R618	1-216-835-11	METAL CHIP	15K	5%	1/10W
R619	1-216-838-11	METAL CHIP	27K	5%	1/10W
R620	1-216-838-11	METAL CHIP	27K	5%	1/10W
R621	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R622	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R623	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R624	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R625	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R626	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R627	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R628	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R629	1-216-833-11	METAL CHIP	10K	5%	1/10W
R630	1-216-833-11	METAL CHIP	10K	5%	1/10W
R631	1-216-817-11	METAL CHIP	470	5%	1/10W
R632	1-216-817-11	METAL CHIP	470	5%	1/10W
R633	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R634	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R635	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R636	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R637	1-216-815-11	METAL CHIP	330	5%	1/10W
R638	1-216-815-11	METAL CHIP	330	5%	1/10W
R643	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R644	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R651	1-216-809-11	METAL CHIP	100	5%	1/10W
R652	1-216-809-11	METAL CHIP	100	5%	1/10W
R653	1-216-837-11	METAL CHIP	22K	5%	1/10W
R654	1-216-837-11	METAL CHIP	22K	5%	1/10W
R655	1-216-837-11	METAL CHIP	22K	5%	1/10W
R656	1-216-837-11	METAL CHIP	22K	5%	1/10W
R658	1-216-837-11	METAL CHIP	22K	5%	1/10W
R659	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R661	1-216-835-11	METAL CHIP	15K	5%	1/10W
R662	1-216-841-11	METAL CHIP	47K	5%	1/10W
R663	1-216-833-11	METAL CHIP	10K	5%	1/10W
R664	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R665	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R666	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R667	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R670	1-216-833-11	METAL CHIP	10K	5%	1/10W
R671	1-216-842-11	METAL CHIP	56K	5%	1/10W
R672	1-216-833-11	METAL CHIP	10K	5%	1/10W
R673	1-216-821-11	METAL CHIP	1K	5%	1/10W
R674	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R675	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R676	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R677	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R678	1-216-817-11	METAL CHIP	470	5%	1/10W
R679	1-216-834-11	METAL CHIP	12K	5%	1/10W
R680	1-216-833-11	METAL CHIP	10K	5%	1/10W
R681	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R682	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R683	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R684	1-216-817-11	METAL CHIP	470	5%	1/10W
R685	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R686	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R687	1-216-821-11	METAL CHIP	1K	5%	1/10W
R688	1-216-816-11	METAL CHIP	390	5%	1/10W
R691	1-216-837-11	METAL CHIP	22K	5%	1/10W
R692	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R693	1-216-821-11	METAL CHIP	1K	5%	1/10W
R694	1-216-837-11	METAL CHIP	22K	5%	1/10W
R695	1-216-833-11	METAL CHIP	10K	5%	1/10W
R696	1-216-821-11	METAL CHIP	1K	5%	1/10W
R697	1-216-837-11	METAL CHIP	22K	5%	1/10W
R698	1-216-833-11	METAL CHIP	10K	5%	1/10W
R699	1-216-821-11	METAL CHIP	1K	5%	1/10W
R700	1-216-837-11	METAL CHIP	22K	5%	1/10W
R701	1-216-837-11	METAL CHIP	22K	5%	1/10W
R702	1-216-833-11	METAL CHIP	10K	5%	1/10W
R703	1-216-833-11	METAL CHIP	10K	5%	1/10W
R704	1-216-833-11	METAL CHIP	10K	5%	1/10W
R705	1-216-833-11	METAL CHIP	10K	5%	1/10W
R730	1-216-833-11	METAL CHIP	10K	5%	1/10W
R731	1-216-833-11	METAL CHIP	10K	5%	1/10W
R732	1-216-833-11	METAL CHIP	10K	5%	1/10W
R733	1-216-841-11	METAL CHIP	47K	5%	1/10W
R734	1-216-841-11	METAL CHIP	47K	5%	1/10W
R735	1-216-841-11	METAL CHIP	47K	5%	1/10W
R736	1-216-841-11	METAL CHIP	47K	5%	1/10W
R737	1-216-841-11	METAL CHIP	47K	5%	1/10W
R738	1-216-841-11	METAL CHIP	47K	5%	1/10W
R739	1-216-841-11	METAL CHIP	47K	5%	1/10W
R761	1-216-845-11	METAL CHIP	100K	5%	1/10W
R762	1-216-845-11	METAL CHIP	100K	5%	1/10W
R763	1-216-845-11	METAL CHIP	100K	5%	1/10W
R764	1-216-849-11	METAL CHIP	220K	5%	1/10W
R765	1-216-849-11	METAL CHIP	220K	5%	1/10W
R766	1-216-849-11	METAL CHIP	220K	5%	1/10W
R767	1-216-849-11	METAL CHIP	220K	5%	1/10W
R801	1-216-813-11	METAL CHIP	220	5%	1/10W
R807	1-216-821-11	METAL CHIP	1K	5%	1/10W
R809	1-216-864-11	SHORT CHIP	0		
R810	1-216-821-11	METAL CHIP	1K	5%	1/10W
R812	1-216-864-11	SHORT CHIP	0		
		< THERMISTOR >			
TH101	1-803-790-21	THERMISTOR			
TH102	1-803-790-21	THERMISTOR			
		< CONNECTOR >			
WH012	1-816-819-11	HLDR, WIRE 2.5-9P			
WH201	1-816-818-11	HLDR, WIRE 2.5-5P			
**********					
	1-687-133-11	MOTOR (LD) BOARD			
		**********			
**********					
	1-687-134-11	MOTOR (TB) BOARD			
		**********			
		< CONNECTOR >			
CN742	1-784-727-11	CONNECTOR, FFC 5P			
**********					

Ref. No.	Part No.	Description			Remark
	A-4732-992-A	PANEL BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C201	1-126-960-11	ELECT	1uF	20%	50V
C202	1-164-173-11	CERAMIC CHIP	0.0039uF	10%	50V
C203	1-126-965-11	ELECT	22uF	20%	50V
C204	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C205	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C207	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C208	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C210	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C211	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C213	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C214	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C215	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C216	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C501	1-126-960-11	ELECT	1uF	20%	50V
C502	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C503	1-126-960-11	ELECT	1uF	20%	50V
C504	1-126-916-11	ELECT	1000uF	20%	6.3V
C505	1-126-964-11	ELECT	10uF	20%	50V
C507	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C508	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C509	1-126-965-11	ELECT	22uF	20%	50V
C510	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C601	1-126-947-11	ELECT	47uF	20%	16V
C809	1-126-947-11	ELECT	47uF	20%	16V
C902	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C903	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C904	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C905	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C906	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C907	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C908	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C909	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C910	1-164-230-91	CERAMIC CHIP	220PF	5%	50V
C911	1-164-230-91	CERAMIC CHIP	220PF	5%	50V
C912	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C914	1-126-947-11	ELECT	47uF	20%	35V
C915	1-131-992-11	CERAMIC CHIP	0.1uF		35V
C916	1-126-163-11	ELECT	4.7uF	20%	50V
C917	1-126-163-11	ELECT	4.7uF	20%	50V
C918	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C919	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C920	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C921	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C922	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C923	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C924	1-216-864-11	SHORT CHIP	0		
C926	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C927	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C930	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C931	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C932	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C933	1-164-173-11	CERAMIC CHIP	0.0039uF	10%	50V
C935	1-128-057-11	ELECT	330uF	20%	6.3V
C999	1-126-916-11	ELECT	1000uF	20%	6.3V

PANEL

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CN101	1-793-767-11	CONNECTOR, BOARD TO BOARD 30P	
CN403	1-784-784-11	CONNECTOR, FFC 23P	
CN601	1-784-774-11	CONNECTOR, FFC 13P	
CN701	1-568-830-11	CONNECTOR, FFC 11P	
		< DIODE >	
D101	8-719-991-34	DIODE 1SS133T-72	
D201	8-719-991-34	DIODE 1SS133T-72	
D501	8-719-991-34	DIODE 1SS133T-72	
D502	8-719-991-34	DIODE 1SS133T-72	
D503	8-719-991-34	DIODE 1SS133T-72	
D504	8-719-991-34	DIODE 1SS133T-72	
D505	8-719-991-34	DIODE 1SS133T-72	
D506	8-719-991-34	DIODE 1SS133T-72	
D507	8-719-921-80	DIODE MTZJ-T-72-11B	
D508	8-719-991-34	DIODE 1SS133T-72	
D601	8-719-991-34	DIODE 1SS133T-72	
D602	8-719-991-34	DIODE 1SS133T-72	
D609	8-719-991-34	DIODE 1SS133T-72	
D611	8-719-991-34	DIODE 1SS133T-72	
D614	8-719-991-34	DIODE 1SS133T-72	
D620	8-719-820-05	DIODE 1SS181-TE85L	
D621	8-719-820-05	DIODE 1SS181-TE85L	
D622	8-719-820-05	DIODE 1SS181-TE85L	
D623	8-719-820-05	DIODE 1SS181-TE85L	
D624	8-719-820-05	DIODE 1SS181-TE85L	
D625	8-719-820-05	DIODE 1SS181-TE85L	
D626	8-719-820-05	DIODE 1SS181-TE85L	
D627	8-719-820-05	DIODE 1SS181-TE85L	
		< FLUORESCENT INDICATOR TUBE >	
FL901	1-518-894-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC201	6-704-046-01	IC BU2099FV	
IC501	6-704-135-01	IC MM1614A	
IC502	8-759-533-04	IC M62703ML-E1	
IC801	6-600-213-01	IC GP1UE271XK	
IC901	6-803-497-01	IC LC876796B-52D8	
		< SHORT >	
JR101	1-216-296-11	SHORT CHIP 0	
JR102	1-216-296-11	SHORT CHIP 0	
JR204	1-216-864-11	SHORT CHIP 0	
JR205	1-216-864-11	SHORT CHIP 0	
JR213	1-216-864-11	SHORT CHIP 0	
JR215	1-216-864-11	SHORT CHIP 0	
JR216	1-216-864-11	SHORT CHIP 0	
JR218	1-216-864-11	SHORT CHIP 0	
JR219	1-216-864-11	SHORT CHIP 0	
JR220	1-216-864-11	SHORT CHIP 0	
JR401	1-216-864-11	SHORT CHIP 0	
JR601	1-216-296-11	SHORT CHIP 0	
JR602	1-216-864-11	SHORT CHIP 0	
JR703	1-216-864-11	SHORT CHIP 0	
JR903	1-216-864-11	SHORT CHIP 0	
JR905	1-216-864-11	SHORT CHIP 0	
JR906	1-216-864-11	SHORT CHIP 0	
JR907	1-216-864-11	SHORT CHIP 0	
JR908	1-216-864-11	SHORT CHIP 0	
JR909	1-216-296-11	SHORT CHIP 0	
JR910	1-216-864-11	SHORT CHIP 0	
JR911	1-216-864-11	SHORT CHIP 0	
JR912	1-216-864-11	SHORT CHIP 0	
JR913	1-216-864-11	SHORT CHIP 0	
		< TRANSISTOR >	
Q201	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q202	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q204	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q205	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q206	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
Q601	8-729-116-57	TRANSISTOR 2SB1068TP-K	
Q602	8-729-140-04	TRANSISTOR 2SB1116-TP-LK	
Q603	8-729-140-04	TRANSISTOR 2SB1116-TP-LK	
Q604	8-729-900-80	TRANSISTOR RN1202TPE4	
Q605	8-729-900-80	TRANSISTOR RN1202TPE4	
Q606	8-729-900-80	TRANSISTOR RN1202TPE4	
Q607	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q901	8-729-120-28	TRANSISTOR 2SC3052EF-T1-LEF	
		< RESISTOR >	
R101	1-249-433-11	CARBON 22K 5% 1/4W	
R102	1-249-436-11	CARBON 39K 5% 1/4W	
R103	1-249-436-11	CARBON 39K 5% 1/4W	
R104	1-249-417-11	CARBON 1K 5% 1/4W	
R105	1-249-417-11	CARBON 1K 5% 1/4W	
R106	1-249-417-11	CARBON 1K 5% 1/4W	
R107	1-249-417-11	CARBON 1K 5% 1/4W	
R108	1-249-417-11	CARBON 1K 5% 1/4W	
R109	1-249-417-11	CARBON 1K 5% 1/4W	
R110	1-249-417-11	CARBON 1K 5% 1/4W	
R111	1-249-417-11	CARBON 1K 5% 1/4W	
R112	1-249-417-11	CARBON 1K 5% 1/4W	
R113	1-249-417-11	CARBON 1K 5% 1/4W	
R114	1-249-417-11	CARBON 1K 5% 1/4W	
R118	1-249-393-11	CARBON 10 5% 1/4W	
R119	1-249-417-11	CARBON 1K 5% 1/4W	
R121	1-249-417-11	CARBON 1K 5% 1/4W	
R122	1-249-417-11	CARBON 1K 5% 1/4W	
R201	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
R202	1-247-807-31	CARBON 100 5% 1/4W	
R203	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R204	1-216-840-11	METAL CHIP 39K 5% 1/10W	
R205	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R206	1-216-864-11	SHORT CHIP 0	
R208	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R210	1-216-809-11	METAL CHIP 100 5% 1/10W	
R211	1-216-834-11	METAL CHIP 12K 5% 1/10W	
R212	1-216-851-11	METAL CHIP 330K 5% 1/10W	
R213	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R214	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R215	1-216-809-11	METAL CHIP 100 5% 1/10W	

Ref. No.	Part No.	Description			Remark
R216	1-216-851-11	METAL CHIP	330K	5%	1/10W
R217	1-216-849-11	METAL CHIP	220K	5%	1/10W
R218	1-216-809-11	METAL CHIP	100	5%	1/10W
R219	1-216-833-11	METAL CHIP	10K	5%	1/10W
R220	1-216-849-11	METAL CHIP	220K	5%	1/10W
R221	1-216-841-11	METAL CHIP	47K	5%	1/10W
R222	1-216-849-11	METAL CHIP	220K	5%	1/10W
R223	1-216-809-11	METAL CHIP	100	5%	1/10W
R225	1-247-807-31	CARBON	100	5%	1/4W
R226	1-249-429-11	CARBON	10K	5%	1/4W
R227	1-249-429-11	CARBON	10K	5%	1/4W
R228	1-249-429-11	CARBON	10K	5%	1/4W
R247	1-216-834-11	METAL CHIP	12K	5%	1/10W
R248	1-216-845-11	METAL CHIP	100K	5%	1/10W
R249	1-216-838-11	METAL CHIP	27K	5%	1/10W
R254	1-216-849-11	METAL CHIP	220K	5%	1/10W
R261	1-216-833-11	METAL CHIP	10K	5%	1/10W
R262	1-216-833-11	METAL CHIP	10K	5%	1/10W
R263	1-216-833-11	METAL CHIP	10K	5%	1/10W
R264	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R334	1-216-833-11	METAL CHIP	10K	5%	1/10W
R335	1-216-833-11	METAL CHIP	10K	5%	1/10W
R336	1-216-833-11	METAL CHIP	10K	5%	1/10W
R501	1-249-408-11	CARBON	180	5%	1/4W
R502	1-216-841-11	METAL CHIP	47K	5%	1/10W
R503	1-216-841-11	METAL CHIP	47K	5%	1/10W
R504	1-249-429-11	CARBON	10K	5%	1/4W
R505	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R506	1-216-815-11	METAL CHIP	330	5%	1/10W
R507	1-216-833-11	METAL CHIP	10K	5%	1/10W
R601	1-216-809-11	METAL CHIP	100	5%	1/10W
R607	1-216-821-11	METAL CHIP	1K	5%	1/10W
R608	1-216-821-11	METAL CHIP	1K	5%	1/10W
R609	1-216-821-11	METAL CHIP	1K	5%	1/10W
R610	1-216-821-11	METAL CHIP	1K	5%	1/10W
R611	1-216-821-11	METAL CHIP	1K	5%	1/10W
R612	1-216-821-11	METAL CHIP	1K	5%	1/10W
R625	1-216-841-11	METAL CHIP	47K	5%	1/10W
R626	1-216-841-11	METAL CHIP	47K	5%	1/10W
R627	1-216-841-11	METAL CHIP	47K	5%	1/10W
R628	1-216-841-11	METAL CHIP	47K	5%	1/10W
R629	1-216-841-11	METAL CHIP	47K	5%	1/10W
R630	1-216-841-11	METAL CHIP	47K	5%	1/10W
R631	1-216-841-11	METAL CHIP	47K	5%	1/10W
R637	1-216-841-11	METAL CHIP	47K	5%	1/10W
R638	1-249-417-11	CARBON	1K	5%	1/4W
R639	1-249-417-11	CARBON	1K	5%	1/4W
R640	1-249-417-11	CARBON	1K	5%	1/4W
R641	1-249-417-11	CARBON	1K	5%	1/4W
R642	1-249-417-11	CARBON	1K	5%	1/4W
R643	1-249-417-11	CARBON	1K	5%	1/4W
R644	1-249-421-11	CARBON	2.2K	5%	1/4W
R645	1-249-421-11	CARBON	2.2K	5%	1/4W
R701	1-216-809-11	METAL CHIP	100	5%	1/10W
R702	1-247-807-31	CARBON	100	5%	1/4W
R703	1-216-809-11	METAL CHIP	100	5%	1/10W
R704	1-216-809-11	METAL CHIP	100	5%	1/10W
R705	1-216-809-11	METAL CHIP	100	5%	1/10W
R706	1-216-809-11	METAL CHIP	100	5%	1/10W
R707	1-216-809-11	METAL CHIP	100	5%	1/10W
R708	1-216-809-11	METAL CHIP	100	5%	1/10W
R709	1-247-807-31	CARBON	100	5%	1/4W
R817	1-249-401-11	CARBON	47	5%	1/4W
R818	1-249-438-11	CARBON	56K	5%	1/4W
R902	1-216-841-11	METAL CHIP	47K	5%	1/10W
R903	1-216-841-11	METAL CHIP	47K	5%	1/10W
R904	1-216-841-11	METAL CHIP	47K	5%	1/10W
R905	1-216-841-11	METAL CHIP	47K	5%	1/10W
R906	1-216-841-11	METAL CHIP	47K	5%	1/10W
R907	1-216-841-11	METAL CHIP	47K	5%	1/10W
R908	1-216-841-11	METAL CHIP	47K	5%	1/10W
R909	1-216-841-11	METAL CHIP	47K	5%	1/10W
R910	1-216-841-11	METAL CHIP	47K	5%	1/10W
R911	1-216-841-11	METAL CHIP	47K	5%	1/10W
R912	1-216-841-11	METAL CHIP	47K	5%	1/10W
R913	1-216-845-11	METAL CHIP	100K	5%	1/10W
R914	1-216-845-11	METAL CHIP	100K	5%	1/10W
R915	1-216-845-11	METAL CHIP	100K	5%	1/10W
R916	1-216-845-11	METAL CHIP	100K	5%	1/10W
R917	1-216-845-11	METAL CHIP	100K	5%	1/10W
R918	1-216-845-11	METAL CHIP	100K	5%	1/10W
R919	1-216-845-11	METAL CHIP	100K	5%	1/10W
R920	1-216-845-11	METAL CHIP	100K	5%	1/10W
R921	1-216-845-11	METAL CHIP	100K	5%	1/10W
R922	1-216-845-11	METAL CHIP	100K	5%	1/10W
R923	1-216-845-11	METAL CHIP	100K	5%	1/10W
R924	1-216-845-11	METAL CHIP	100K	5%	1/10W
R925	1-216-845-11	METAL CHIP	100K	5%	1/10W
R926	1-216-845-11	METAL CHIP	100K	5%	1/10W
R927	1-216-845-11	METAL CHIP	100K	5%	1/10W
R928	1-216-845-11	METAL CHIP	100K	5%	1/10W
R929	1-216-845-11	METAL CHIP	100K	5%	1/10W
R930	1-216-845-11	METAL CHIP	100K	5%	1/10W
R931	1-216-845-11	METAL CHIP	100K	5%	1/10W
R932	1-216-845-11	METAL CHIP	100K	5%	1/10W
R933	1-216-845-11	METAL CHIP	100K	5%	1/10W
R934	1-216-845-11	METAL CHIP	100K	5%	1/10W
R935	1-216-845-11	METAL CHIP	100K	5%	1/10W
R936	1-216-845-11	METAL CHIP	100K	5%	1/10W
R937	1-216-845-11	METAL CHIP	100K	5%	1/10W
R938	1-216-845-11	METAL CHIP	100K	5%	1/10W
R939	1-216-845-11	METAL CHIP	100K	5%	1/10W
R940	1-216-845-11	METAL CHIP	100K	5%	1/10W
R941	1-216-845-11	METAL CHIP	100K	5%	1/10W
R942	1-249-420-11	CARBON	1.8K	5%	1/4W
R943	1-249-420-11	CARBON	1.8K	5%	1/4W
R944	1-249-427-11	CARBON	6.8K	5%	1/4W
R945	1-249-427-11	CARBON	6.8K	5%	1/4W
R946	1-216-845-11	METAL CHIP	100K	5%	1/10W
R947	1-216-845-11	METAL CHIP	100K	5%	1/10W
R948	1-216-845-11	METAL CHIP	100K	5%	1/10W
R949	1-216-845-11	METAL CHIP	100K	5%	1/10W
R950	1-216-845-11	METAL CHIP	100K	5%	1/10W
R953	1-249-441-11	CARBON	100K	5%	1/4W

PANEL PT SENSOR SW

Ref. No.	Part No.	Description			Remark
R954	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R957	1-249-441-11	CARBON	100K	5%	1/4W
R958	1-219-570-11	METAL CHIP	10M	5%	1/10W
R959	1-216-853-11	METAL CHIP	470K	5%	1/10W
R960	1-216-809-11	METAL CHIP	100	5%	1/10W
R961	1-216-821-11	METAL CHIP	1K	5%	1/10W
R962	1-216-821-11	METAL CHIP	1K	5%	1/10W
R963	1-216-821-11	METAL CHIP	1K	5%	1/10W
R964	1-216-845-11	METAL CHIP	100K	5%	1/10W
R965	1-216-845-11	METAL CHIP	100K	5%	1/10W
R966	1-216-845-11	METAL CHIP	100K	5%	1/10W
R967	1-216-845-11	METAL CHIP	100K	5%	1/10W
R968	1-216-845-11	METAL CHIP	100K	5%	1/10W
R969	1-216-845-11	METAL CHIP	100K	5%	1/10W
R970	1-216-845-11	METAL CHIP	100K	5%	1/10W
R971	1-249-441-11	CARBON	100K	5%	1/4W
R972	1-249-439-11	CARBON	68K	5%	1/4W
R973	1-216-843-11	METAL CHIP	68K	5%	1/10W
R974	1-249-441-11	CARBON	100K	5%	1/4W
R975	1-249-441-11	CARBON	100K	5%	1/4W
R976	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< VIBRATOR >			
X901	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)			
X902	1-795-880-11	VIBRATOR, CERAMIC (8.64MHz)			
**********					
	1-688-399-12	PT BOARD			
		*********			
		< CAPACITOR >			
C091	1-165-621-11	CERAMIC CHIP	0.1uF		50V
		< CONNECTOR >			
* CN091	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P			
		< DIODE >			
D091	8-719-820-05	DIODE 1SS181-TE85L			
D092	8-719-801-78	DIODE 1SS184-TE85L			
		< TRANSFORMER >			
⚠PT011	1-439-735-11	TRANSFORMER, POWER			
		< RELAY >			
⚠RY001	1-755-276-11	RELAY, POWER			
		< CONNECTOR >			
WH092	1-816-819-11	HLDR, WIRE 2.5-9P			
**********					
	1-687-132-11	SENSOR BOARD			
		**********			
		< CONNECTOR >			
CN731	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE) 3P			

Ref. No.	Part No.	Description	Remark
		< IC >	
IC731	6-600-022-01	IC RPI-576	
**********			
	1-687-669-11	SW BOARD	
		*********	
		< SWITCH >	
S751	1-786-514-11	SWITCH, LEVER (SLIDE) (OPEN/CLOSE DETECT)	
**********			
		MISCELLANEOUS	
		**********	
55	1-796-485-51	DECK, MECHANICAL (CWM43FF13)	
106	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)	
107	1-769-944-11	WIRE (FLAT TYPE) (11 CORE)	
108	1-769-857-11	WIRE (FLAT TYPE) (5 CORE)	
110	1-773-182-11	WIRE (FLAT TYPE) (23 CORE)	
254	1-693-616-11	TUNER PACK (FM/AM)	
256	1-773-007-11	WIRE (FLAT TYPE) (15 CORE)	
257	1-773-131-11	WIRE (FLAT TYPE) (19 CORE)	
⚠259	1-757-140-11	CORD, POWER	
260	1-400-285-11	F-BEAD, E2515MRT	
509	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
602	1-471-035-11	MAGNET ASSY	
⚠652	A-4735-357-A	BASE ASSY, OP (KSM-213D)	
M741	A-4723-963-A	MOTOR ASSY, TABLE	
M751	A-4736-655-A	MOTOR ASSY, LOADING	
⚠PT002	1-439-966-11	TRANSFORMER, POWER	
S711	1-477-680-11	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

REVISION HISTORY

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

Ver.	Date	Description of Revision
1.0	2003.06	New
1.1	2004.08	Addition of Part No. for IC731 to SENSOR board (SPM-04053)
1.2	2005.05	Change of Part for Ref. No. 501, 511 on EXPLODED VIEWS Correction of Part Name on the DISASSEMBLY “3-11. MOTOR (TB) BOARD” to tray from table (loading) (SPM-05059)