

CX-JN20/JN30

SERVICE MANUAL

Ver 1.0 2004.03

AEP Model
CX-JN20/JN30

UK Model
CX-JN30



Photo: CX-JN30

CX-JN20/JN30 are the tuner, amplifier, cassette deck and CD player section in JAX-N20/N30.

CD Section	Model Name Using Similar Mechanism	CX-JN3
	CD Mechanism Type	CDM74S-K6BD71A
	Base Unit Name	BU-K6BD71A
	Optical Pick-up Block Name	KSM-213DCP
Tape deck Section	Optical Pick-up Name	KSS-213D
	Model Name Using Similar Mechanism	CX-JN3
	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 μ V/m
AM antenna	Loop antenna

AMPLIFIER

Power output

CX-JN30

Rated: 32 W + 32 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500)
Reference: 40 W + 40 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324)
MUSIC POWER: 100 W + 100 W

CX-JN20

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 ($\lambda = 780$ 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	CX-JN30 65 W CX-JN20 60 W With ECO mode on: 0.25 W With ECO mode off: 15 W
Power consumption in standby mode	280 x 330 x 392.5 mm
Dimensions (W x H x D)	

Weight

CX-JN30

6.6 kg

CX-JN20

6.5 kg

Specifications and external appearance are subject to change without notice.

COPYRIGHT

Check copyright laws relevant to recordings from discs, tuner or tape for the country where the unit is to be used.

Licensed by BBE Sound, Inc. under USP4638258, 5510752 and 5736897.

COMPACT DISC DECK RECEIVER

9-877-599-01

2004C05-1

© 2004.03

Sony Corporation

Home Audio Company

Published by Sony Engineering Corporation



Notes on chip component replacement

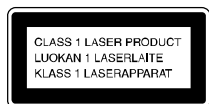
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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.

SAFETY-RELATED COMPONENT WARNING!!

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

TABLE OF CONTENTS

1. SERVICING NOTES	4	7. EXPLODED VIEWS	
2. GENERAL		7-1. Case Section	45
Location of Controls	7	7-2. Tape Deck Section	46
3. DISASSEMBLY		7-3. Panel Board Section	47
3-1. Disassembly Flow	9	7-4. Key Section	48
3-2. Case (SIDE-L/R)	10	7-5. Front Cabinet Section	49
3-3. Case (Top)	10	7-6. Chassis Section	50
3-4. Tray Panel	11	7-7. CD Mechanism Deck Section-1 (CDM74S-K6BD71A)	51
3-5. CD Mechanism Deck (CDM74S-K6BD71A)	11	7-8. CD Mechanism Deck Section-2 (CDM74S-K6BD71A)	52
3-6. Front Panel Section	12	7-9. CD Mechanism Deck Section-3 (CDM74S-K6BD71A)	53
3-7. Mechanical Deck (CWM43FF13)	12	7-10. Base Unit Section (BU-K6BD71A)	54
3-8. Rear Cabinet Section	13	8. ELECTRICAL PARTS LIST	55
3-9. PT Board, MAIN Board	13		
3-10. Table Assy	14		
3-11. MOTOR (TB) Board	14		
3-12. MOTOR (LD) Board	15		
3-13. Base Unit (BU-K6BD71A)	15		
3-14. Motor Gear Assy (Sled) (M701), BD Board	16		
4. TEST MODE	17		
5. ELECTRICAL ADJUSTMENTS			
CD Section	19		
6. DIAGRAMS			
6-1. Block Diagram – CD Section –	20		
6-2. Block Diagram – TUNER/TAPE/PANEL Section –	21		
6-3. Block Diagram – AMP/POWER SUPPLY Section –	22		
6-4. Note for Printed Wiring Boards and Schematic Diagrams	23		
6-5. Printed Wiring Board – BD Section –	24		
6-6. Schematic Diagram – BD Section –	25		
6-7. Printed Wiring Boards – CHANGER Section –	26		
6-8. Schematic Diagram – CHANGER Section –	27		
6-9. Schematic Diagram – MAIN Section (1/4) –	28		
6-10. Schematic Diagram – MAIN Section (2/4) –	29		
6-11. Schematic Diagram – MAIN Section (3/4) –	30		
6-12. Schematic Diagram – MAIN Section (4/4) –	31		
6-13. Printed Wiring Board – MAIN Section –	32		
6-14. Printed Wiring Board – HP Section –	33		
6-15. Schematic Diagram – HP Section –	33		
6-16. Printed Wiring Board – PANEL Section –	34		
6-17. Schematic Diagram – PANEL Section –	35		
6-18. Printed Wiring Boards – KEY Section –	36		
6-19. Schematic Diagram – KEY Section –	37		
6-20. Printed Wiring Board – PT Section –	38		
6-21. Schematic Diagram – PT Section –	39		

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.

UNLEADED SOLDER

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

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

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350 °C.


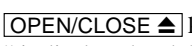
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

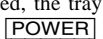
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

RELEASING THE DISC TRAY LOCK

The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Releasing Procedure :

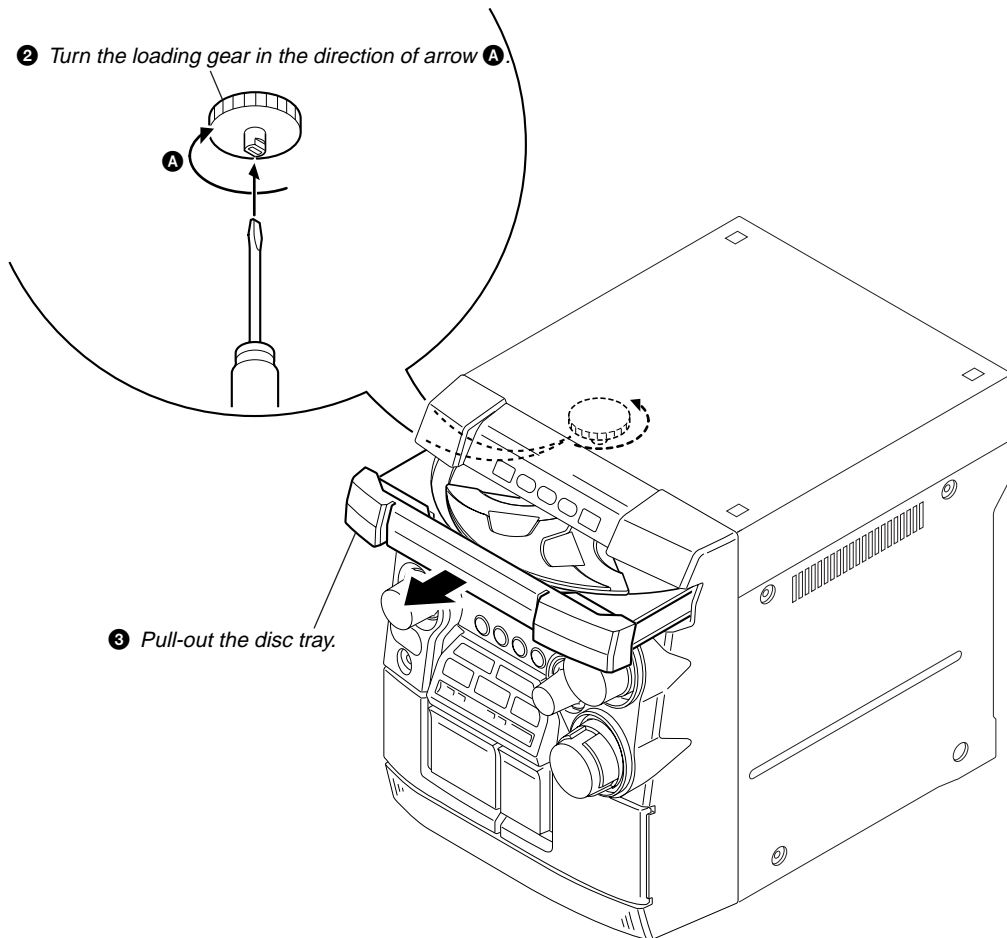
While pressing the  key, press the  key for 5 seconds. The message "UNLOCKED" is displayed and the tray is unlocked.

Note: When "LOCKED" is displayed, the tray lock is not released by turning power on/off with the  key.

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

❶ Remove the case (side-L).

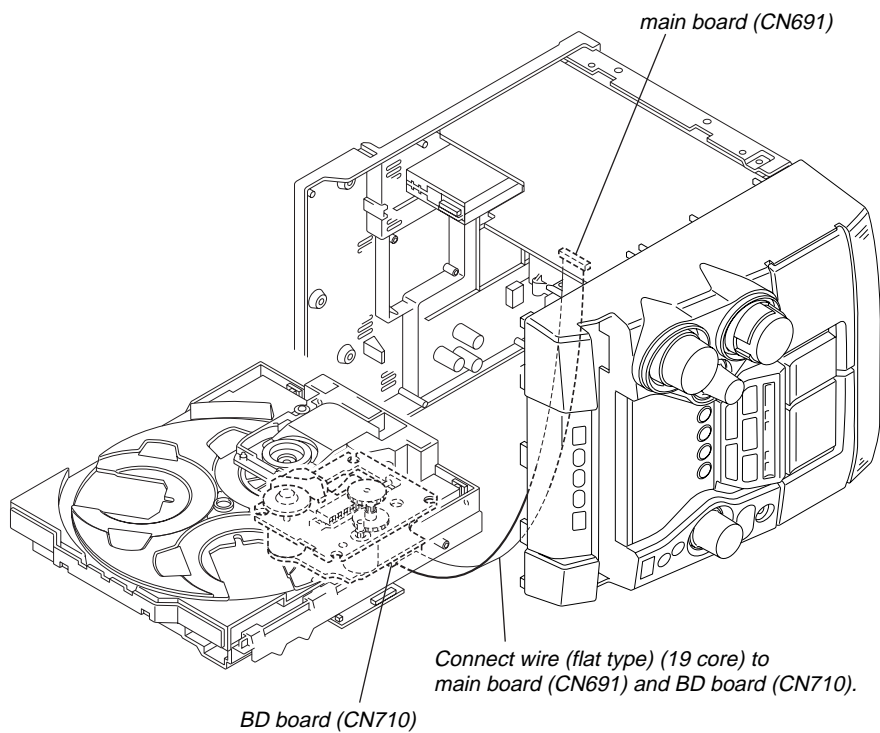
❷ Turn the loading gear in the direction of arrow **A**.



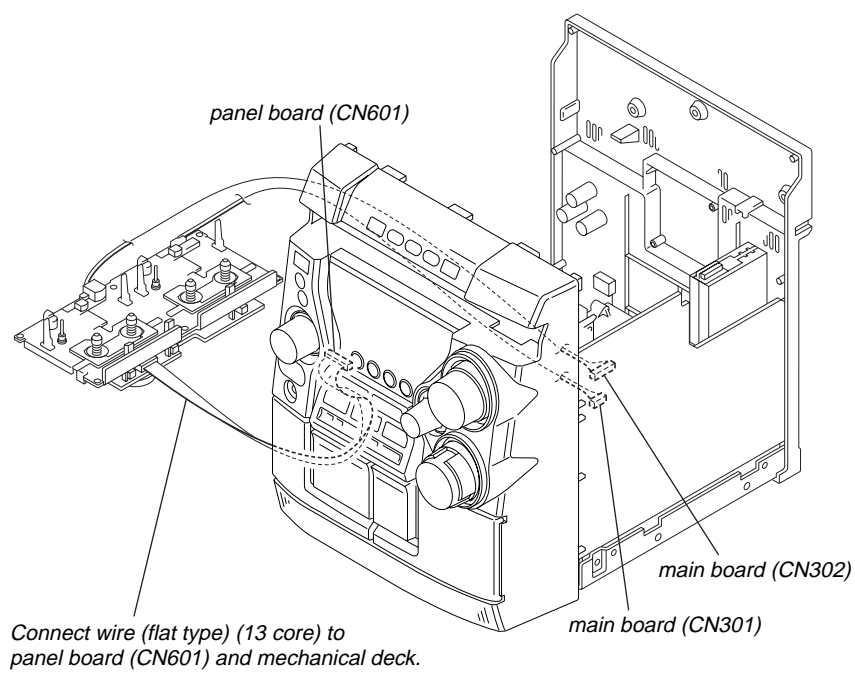
❸ Pull-out the disc tray.

CX-JN20/JN30

SERVICE POSITION – CD mechanism deck –



– Tape mechanism deck –



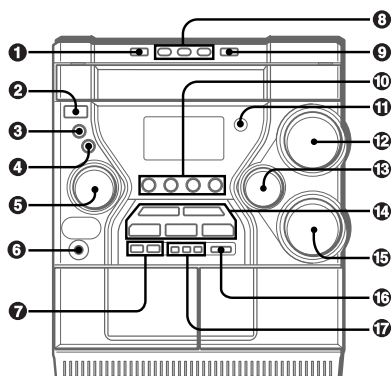
SECTION 2 GENERAL

This section is extracted from instruction manual.

• LOCATION OF CONTROLS

Main unit: front

Refer to the pages indicated in parentheses for details.



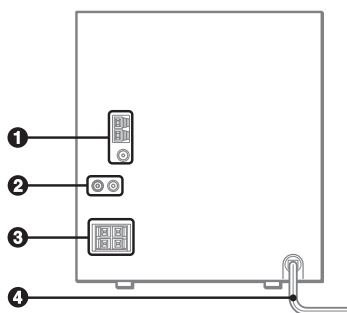
- 1 DISC CHANGE**
Rotates the CD trays.
- 2 POWER \odot STANDBY/ON**
Switches the unit on and off (standby).
The red indicator flashes when receiving a signal from the remote.
- 3 MODE**
Selects various modes (ECO and Repeat/Shuffle/Programmed playback, etc.) when used in combination with ENTER and MULTI JOG.
- 4 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.

- 5 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.
- 6 PHONES jack**
Plug in here an optional headphones set with a mini stereo plug ($\varnothing 3.5$ mm). Speaker output is canceled.
- 7 SYNC DUB**
Starts dubbing a whole tape.
● **REC/REC MUTING**
Starts recording.
- 8 DISC DIRECT PLAY 1-3**
Selects a disc.
- 9 \triangle OPEN/CLOSE**
Opens or closes the disc compartment.
- 10 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.
- 11 Remote sensor**
Receives a signal from the remote.
- 12 VOLUME**
Adjusts the volume.

- 13 TREBLE**
Enhances high frequency sound.
- 14 \blacktriangleright 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.
 \blacktriangleleft TUNING DOWN, \blacktriangleright 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.
- 15 BASS**
Emphasizes low frequency sound.
- 16 i-Bass**
Produces rich and clear low frequency sound.
- 17 DISPLAY**
Displays the time and the remaining time for CD.
ALBUM ∇ , \blacktriangle
Selects a previous album or a succeeding album with MP3-CDs.
PTY (CX-JN20/JN30: AEP, UK)
Displays a program type for RDS (Radio Data System)

Main unit: rear

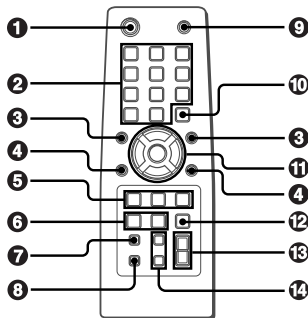
Refer to the pages indicated in parentheses for details.



- 1 AM LOOP, Υ FM 75 Ω terminals**
Plug in the supplied AM and FM antennas here.
- 2 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".
- 3 \blacktriangleright SPEAKER terminals**
Connect the speaker cord of the supplied front speakers here.
- 4 AC power cord**

Remote control

Refer to the pages indicated in parentheses for details.



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

1 POWER

2 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.

3 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.

4 ALBUM ∨, ∧

Selects a previous album or a succeeding album.

5 PLAY MODE

Selects Shuffle or Programmed playback in CD function.

REPEAT

Enters CD repeat playback mode.

ENTER

6 CLOCK/TIMER/SET

Enters timer setting mode.

CLOCK/TIMER/SELECT

Selects timer playback, timer recording or timer off.

7 DISPLAY

8 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.

9 FUNCTION

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

10 DISC SKIP

Select a disc.

11 ▶/◀▶

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.

12 SLEEP

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

13 VOLUME (+, -)

Adjusts the volume.

14 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.

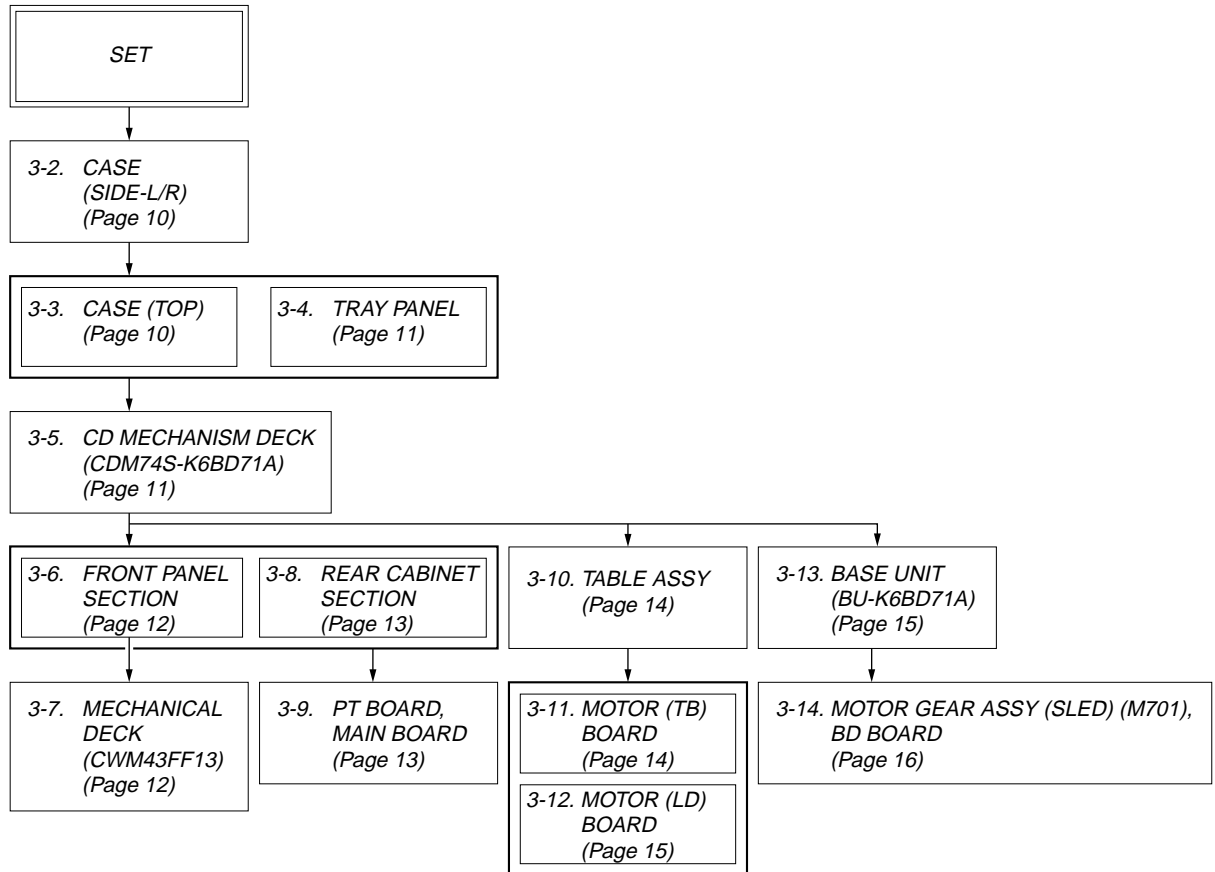
SECTION 3 DISASSEMBLY

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

3-1. DISASSEMBLY FLOW

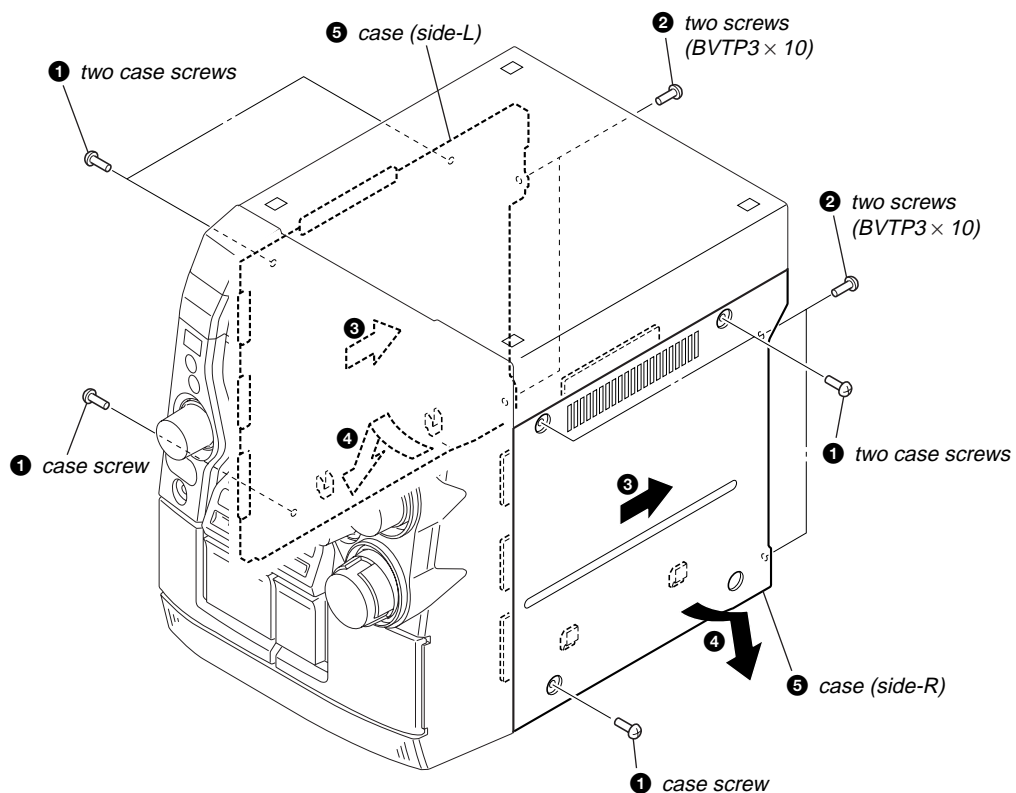
Note 1: The process described in  can be performed in any order.

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

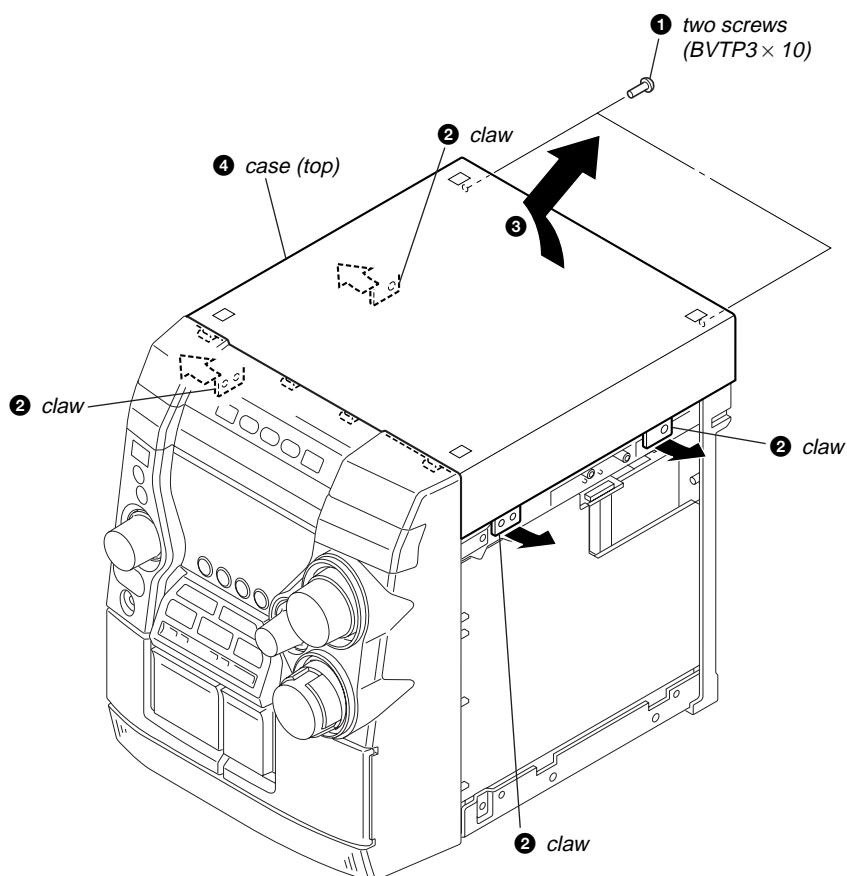


Note: Follow the disassembly procedure in the numerical order given.

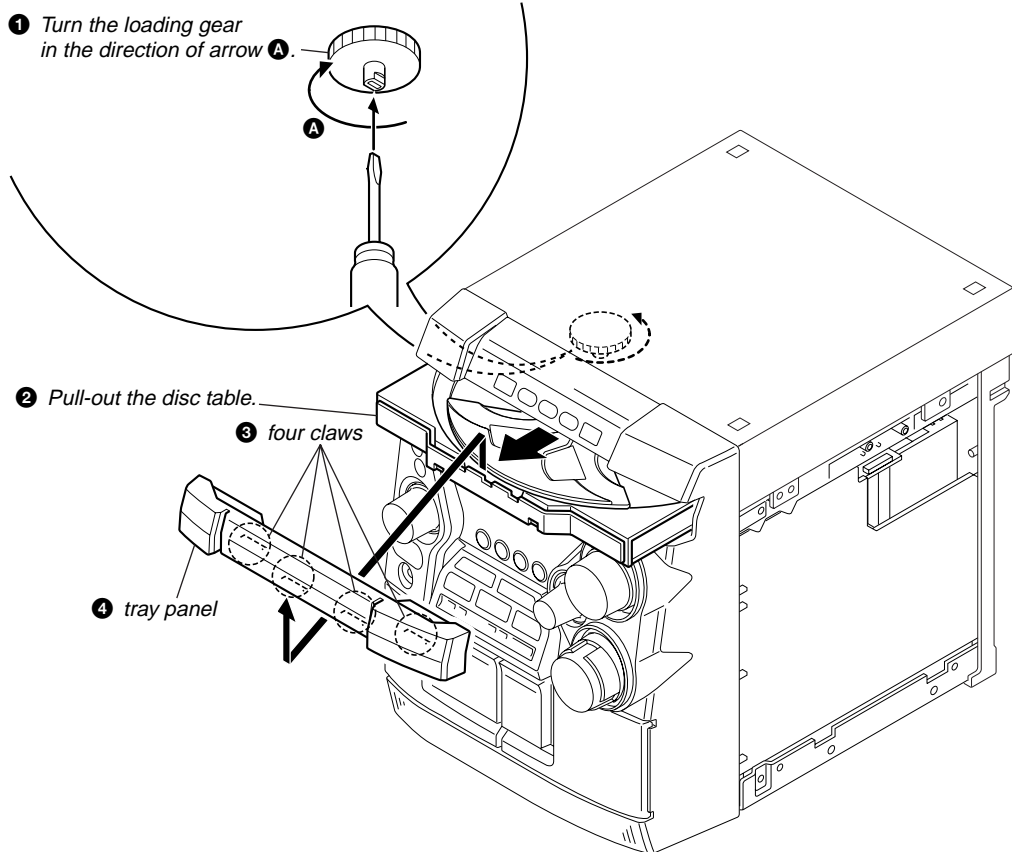
3-2. CASE (SIDE-L/R)



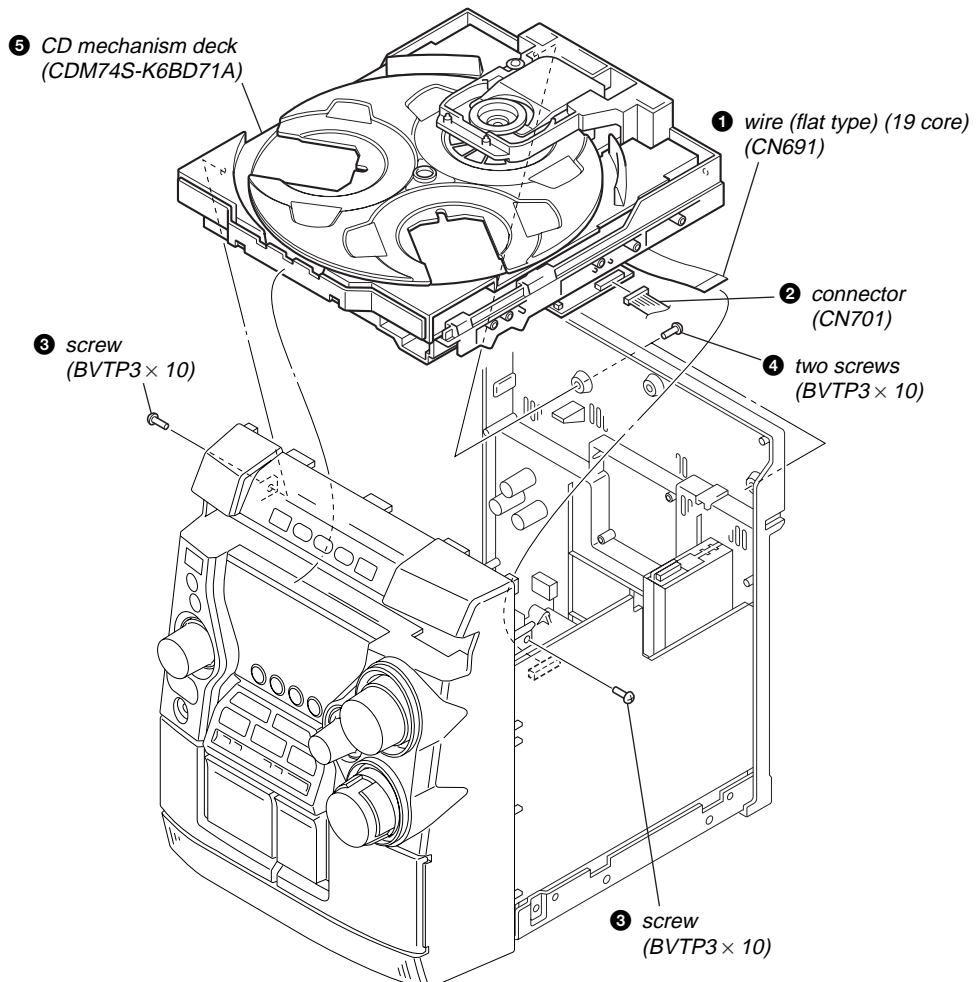
3-3. CASE (TOP)



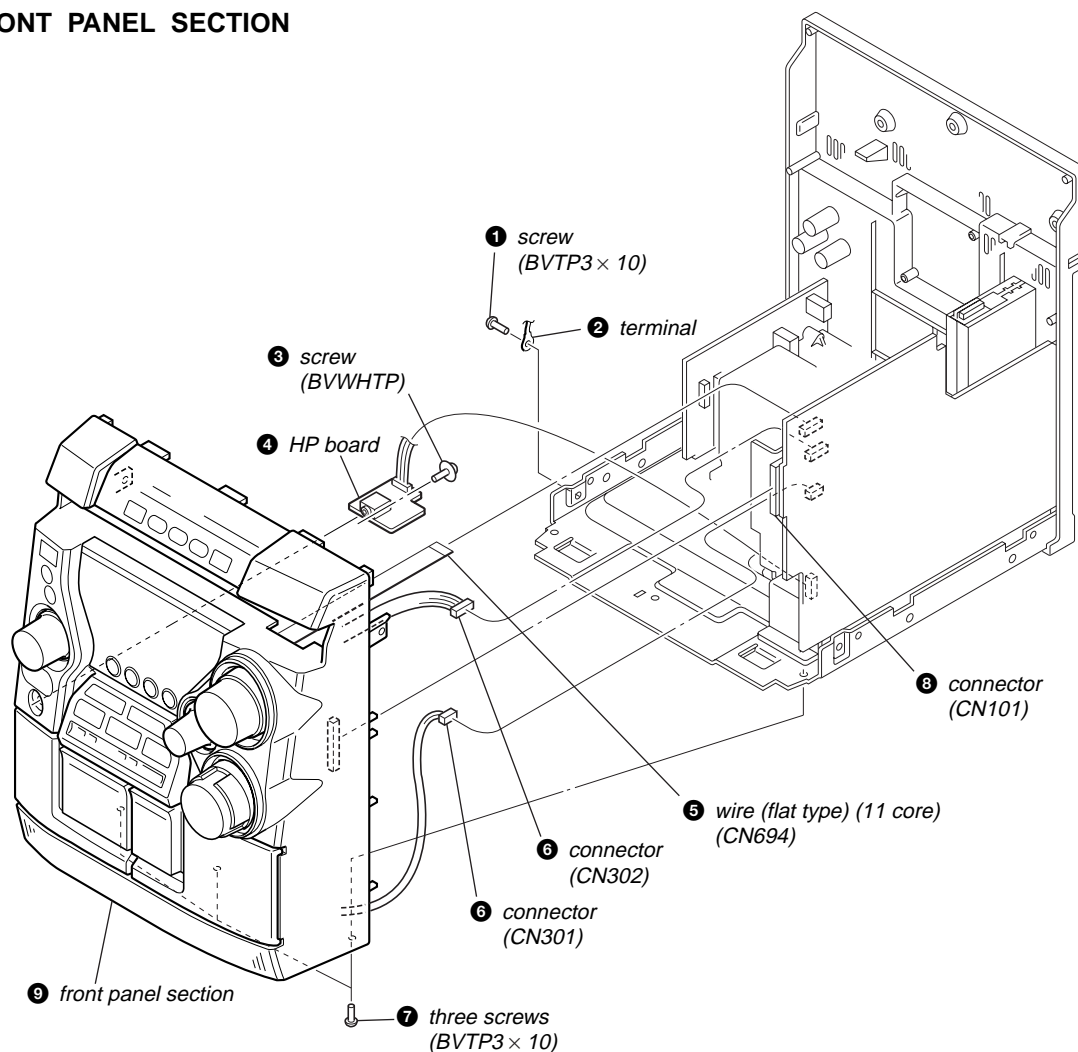
3-4. TRAY PANEL



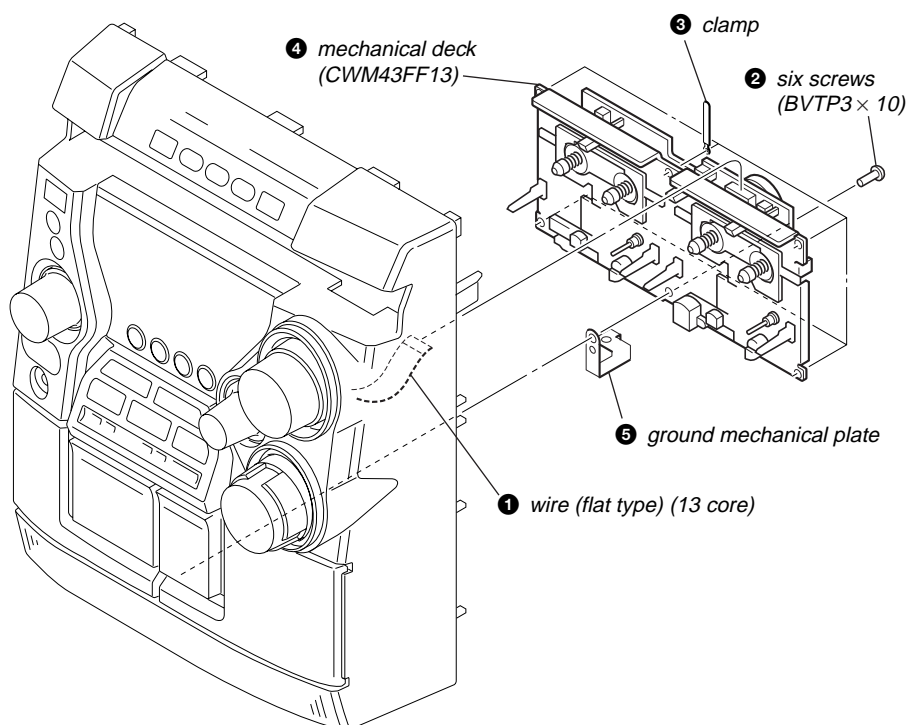
3-5. CD MECHANISM DECK (CDM74S-K6BD71A)



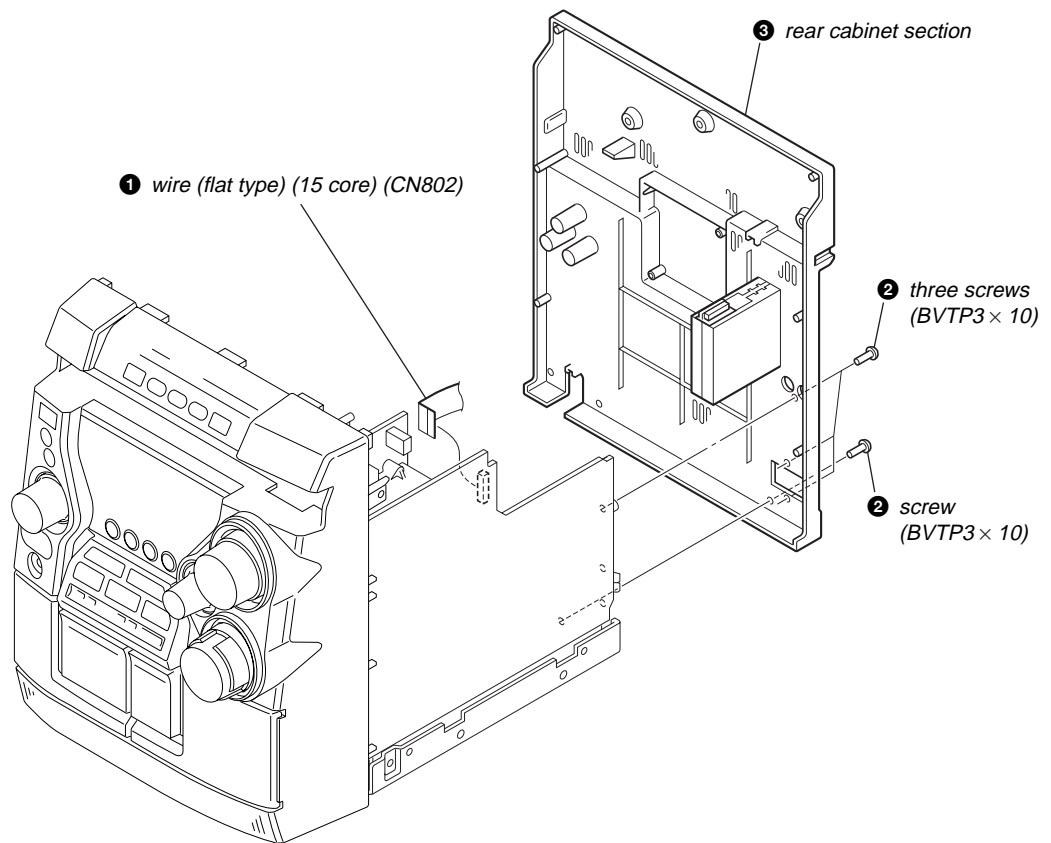
3-6. FRONT PANEL SECTION



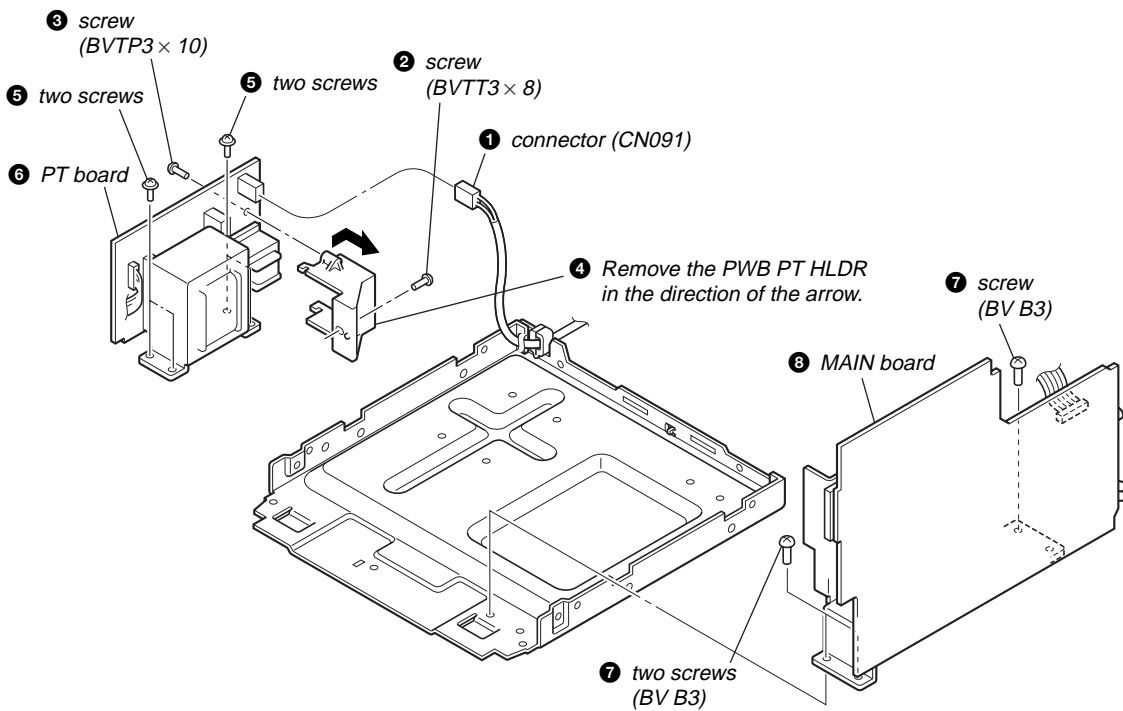
3-7. MECHANICAL DECK (CWM43FF13)



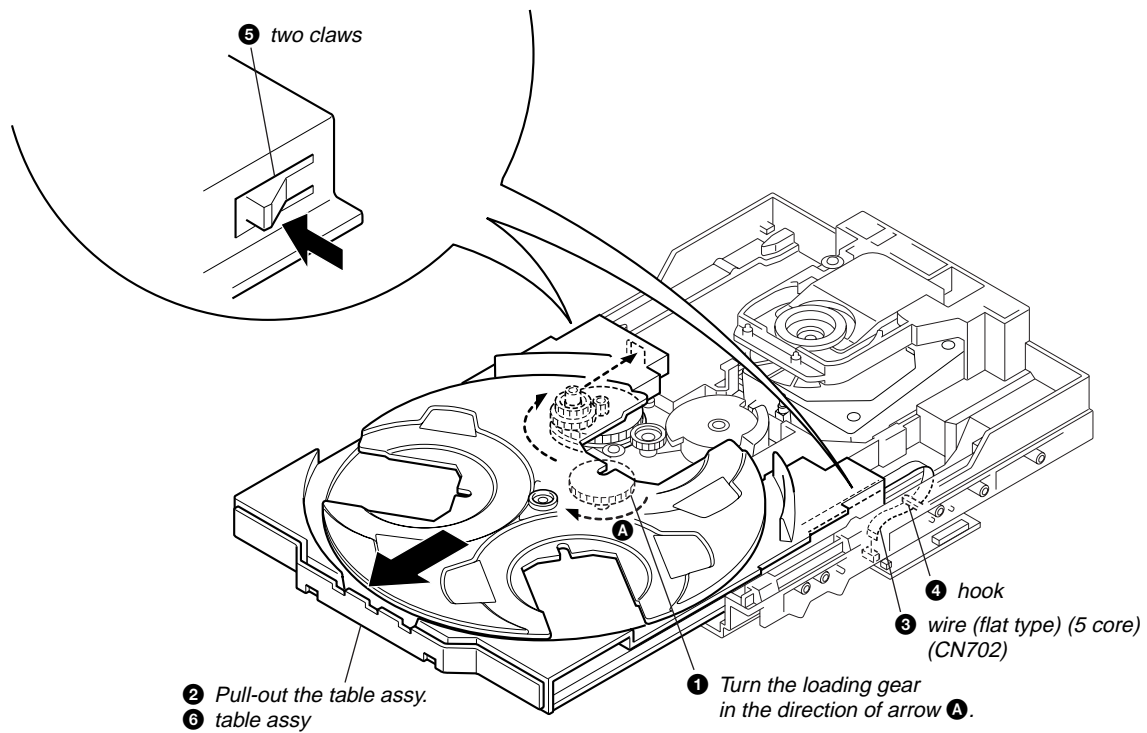
3-8. REAR CABINET SECTION



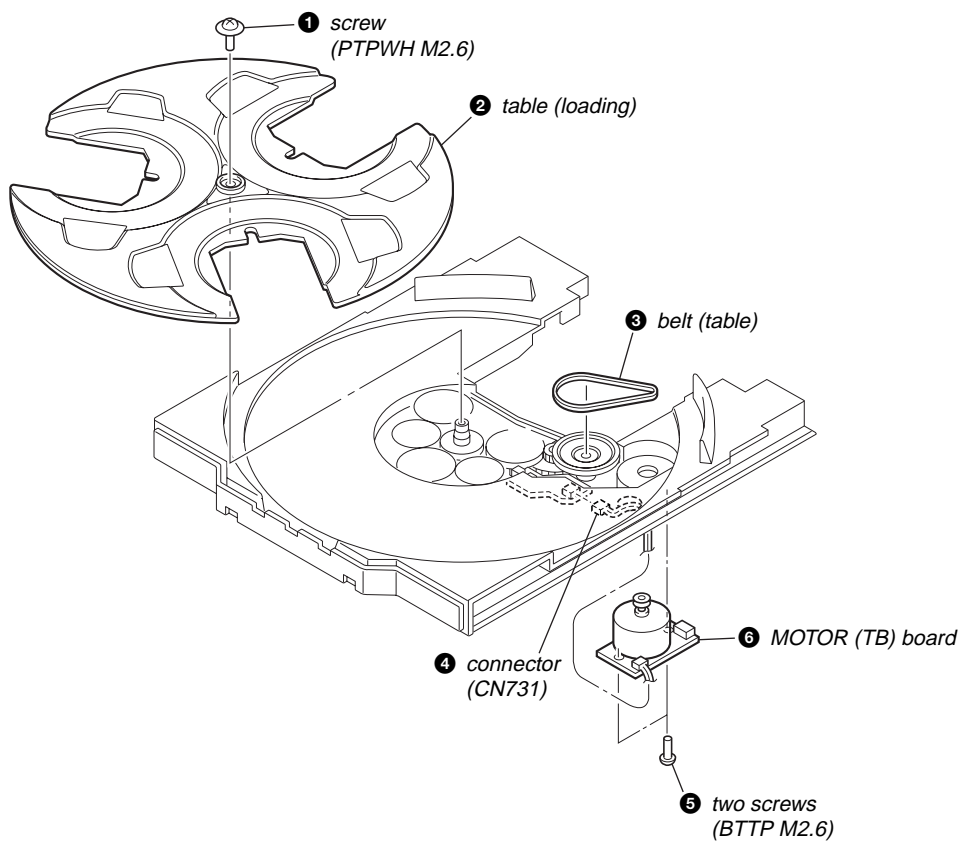
3-9. PT BOARD, MAIN BOARD



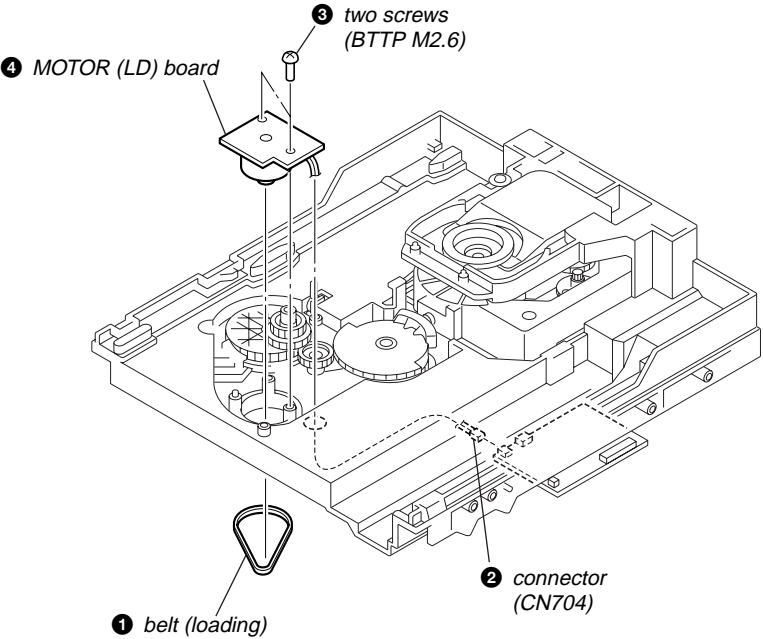
3-10. TABLE ASSY



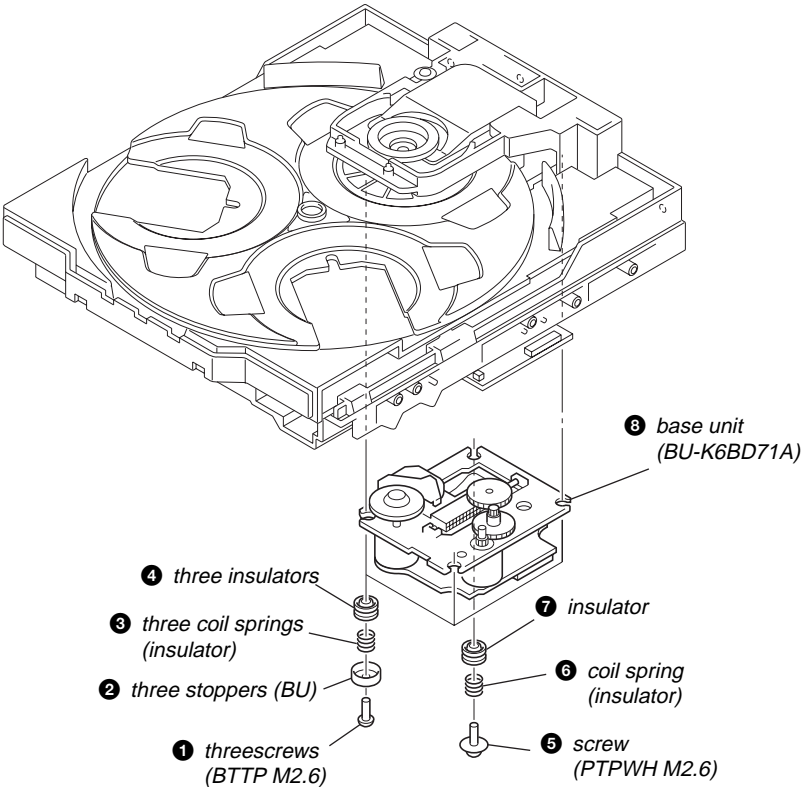
3-11. MOTOR (TB) BOARD



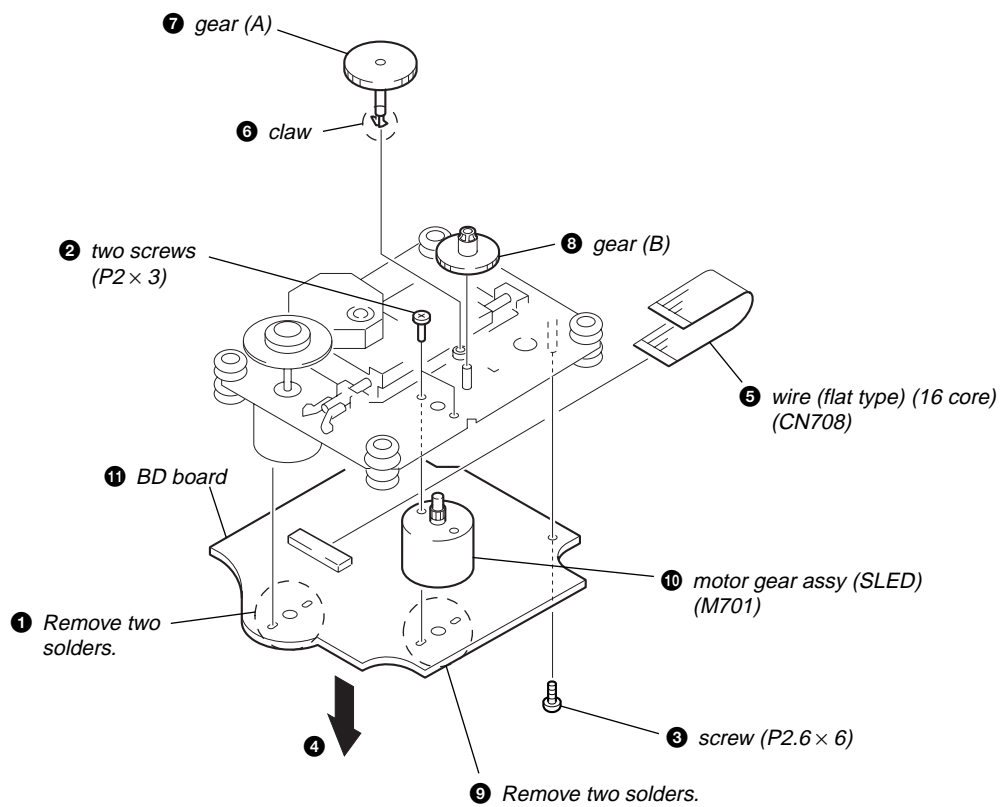
3-12. MOTOR (LD) BOARD



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 **[MUTE]** 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 **[MUTE]** 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 **[MUTE]** 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 **[MUTE]** 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 **[MUTE]** 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)	

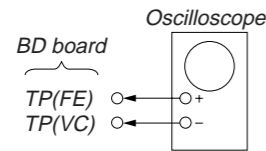
SECTION 5 ELECTRICAL ADJUSTMENTS

CD SECTION

Note:

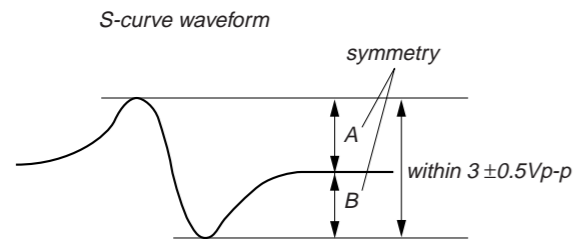
1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal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

S-CURVE CHECK



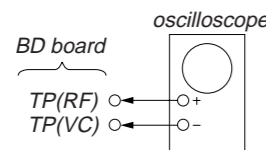
Procedure :

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.

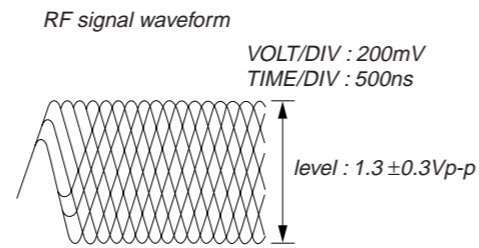
RF LEVEL CHECK



Procedure :

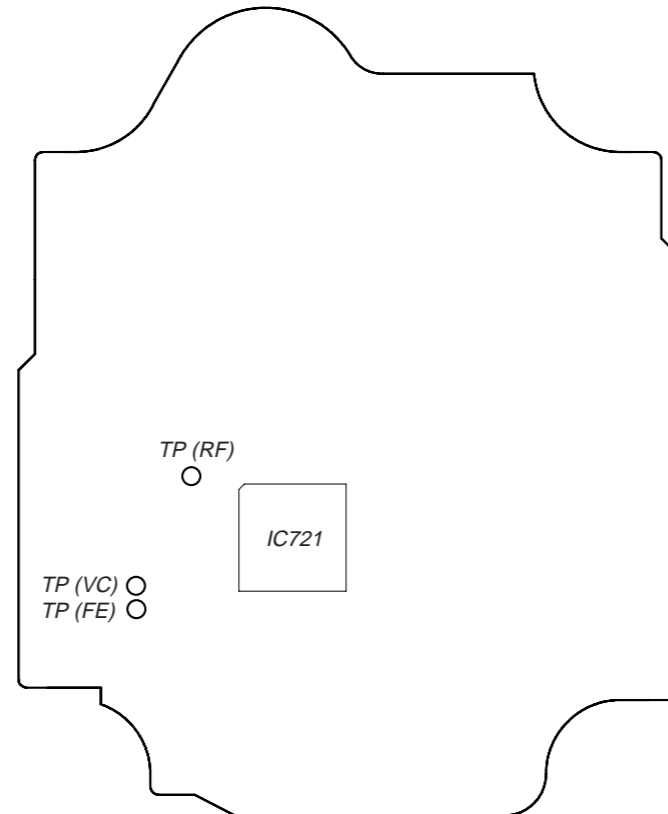
1. Connect an oscilloscope to TP (RF) and TP (VC).
2. Turn the power on.
3. Load a disc (YEDS-18) and playback.
4. Confirm that oscilloscope waveform is clear and check if RF signal level is correct or not.

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



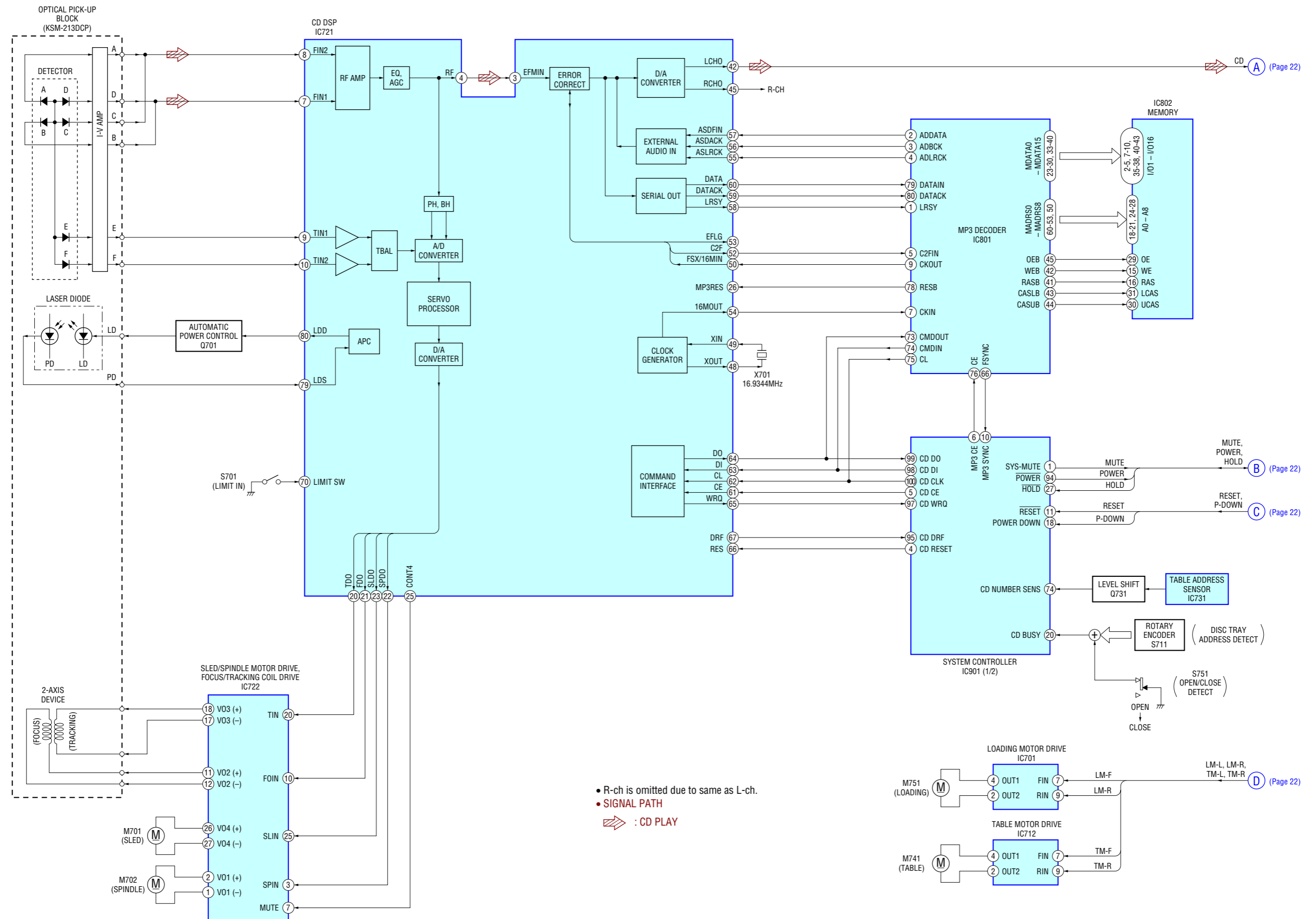
Connecting Location: BD board

– BD Board (Conductor side) –



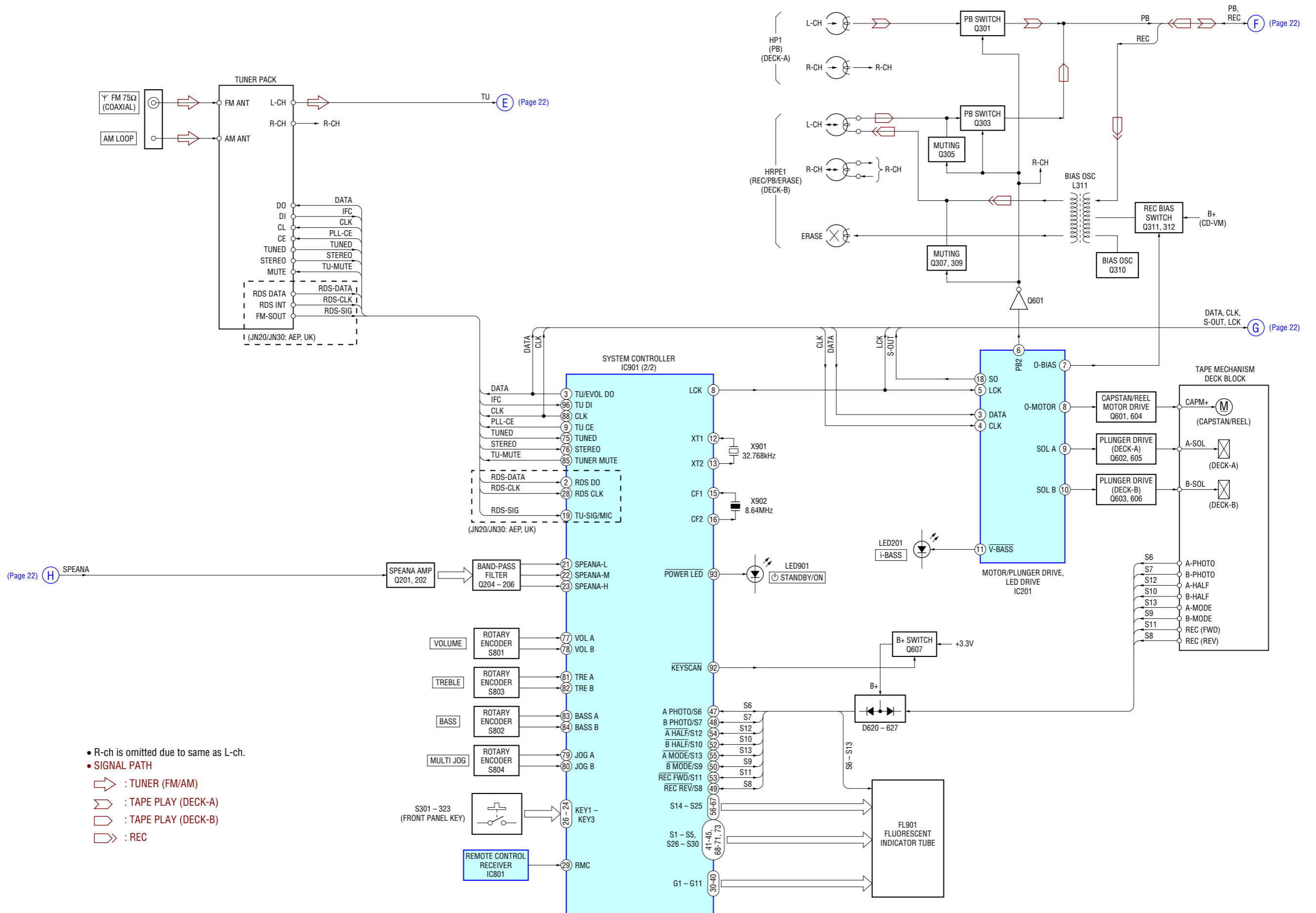
SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM – CD Section –

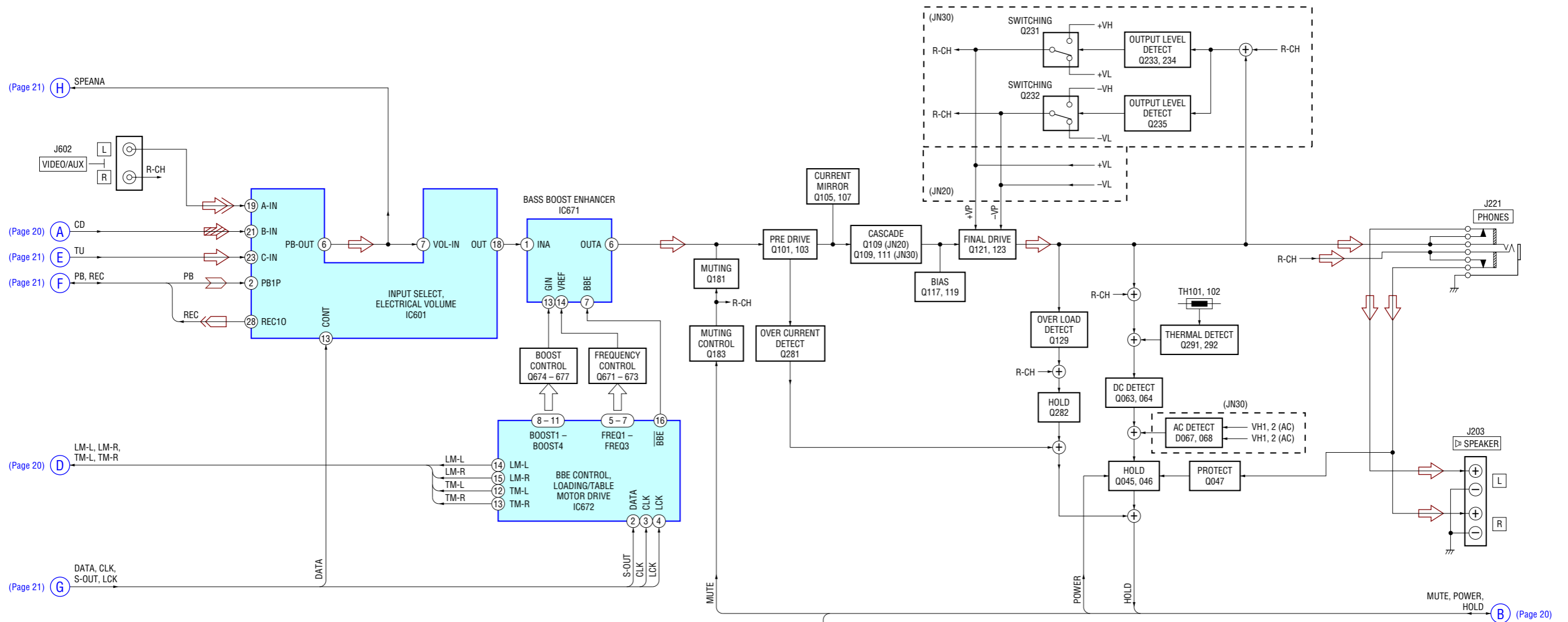


• R-ch is omitted due to same as L-ch.
 • SIGNAL PATH
 : CD PLAY

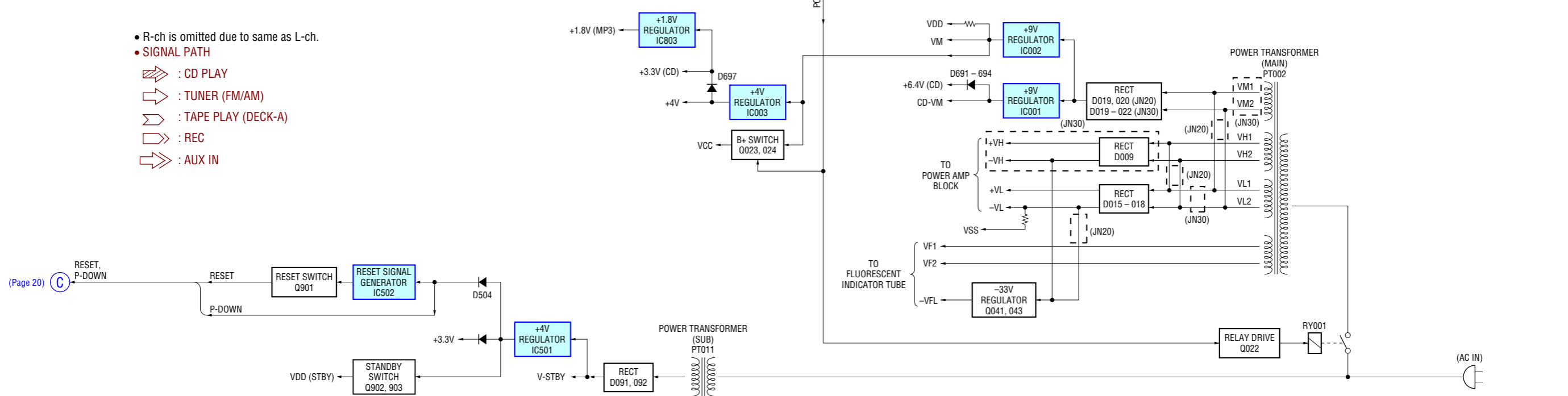
6-2. BLOCK DIAGRAM – TUNER/TAPE/PANEL Section –



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



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



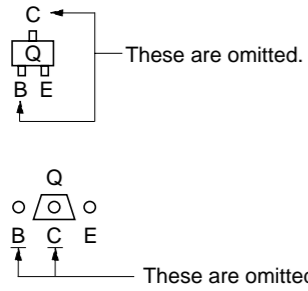
6-4. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

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

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

• Indication of transistor.



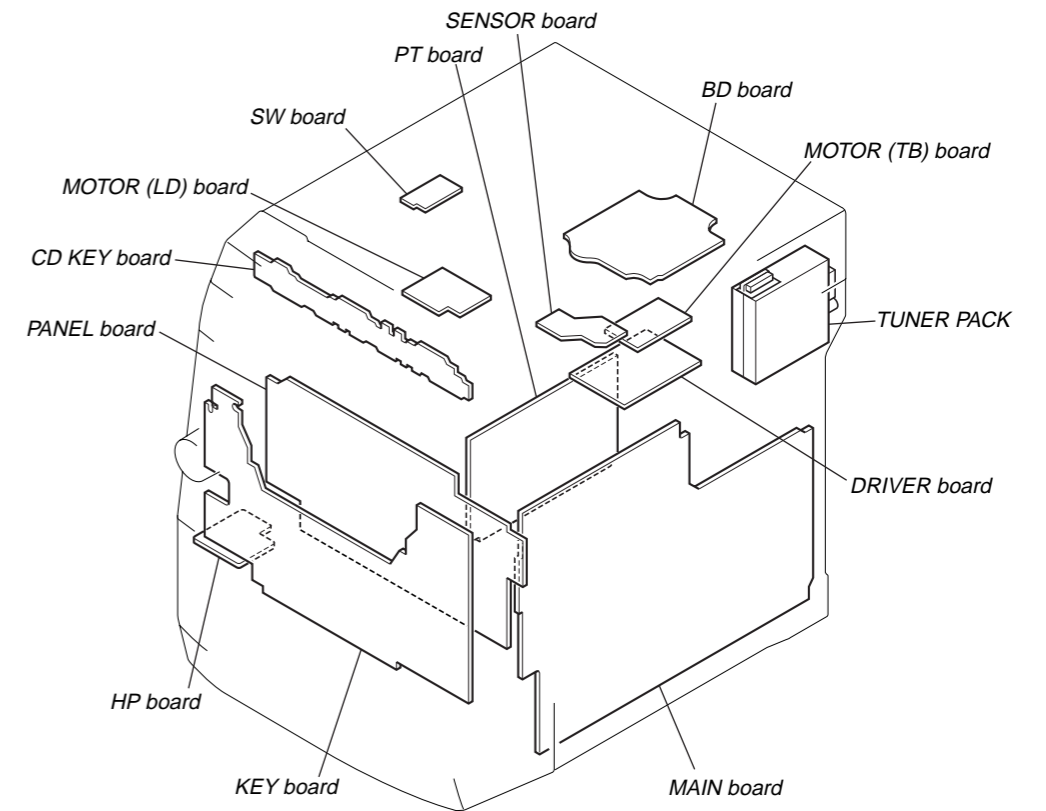
Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

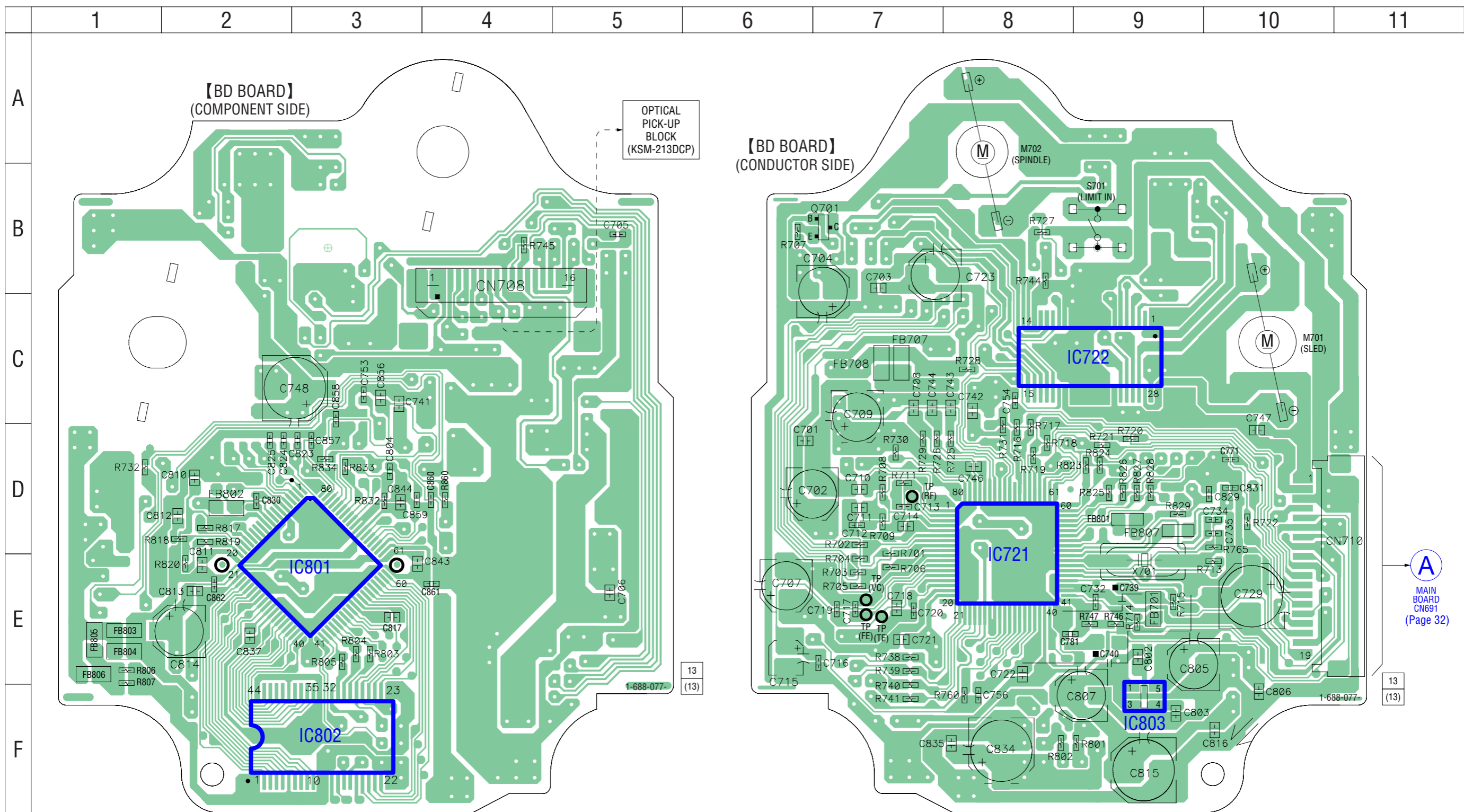
Note: The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

- : B+ Line.
- : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
 - BD Section -
 - no mark : CD PLAY
 - Other Sections -
 - no mark : FM
 - * : Impossible to measure
- Voltages are taken with a VOM (Input impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - : TUNER (FM/AM)
 - : TAPE PLAY (DECK-A)
 - : TAPE PLAY (DECK-B)
 - : REC
 - : CD PLAY
 - : AUX IN

• Circuit Boards Location



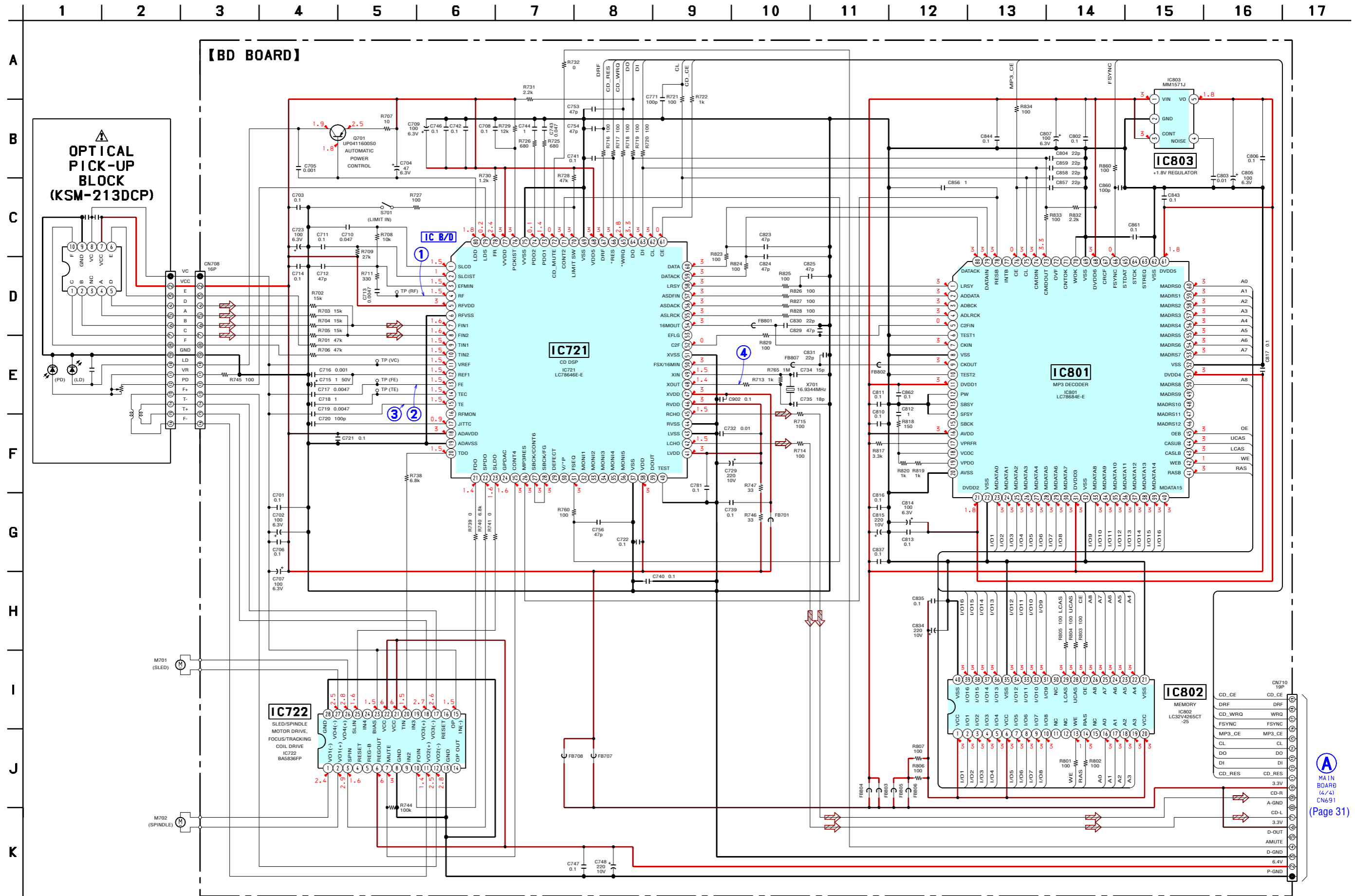
6-5. PRINTED WIRING BOARD – BD Section – • See page 23 for Circuit Boards Location.  :Uses unleaded solder.



• Semiconductor Location

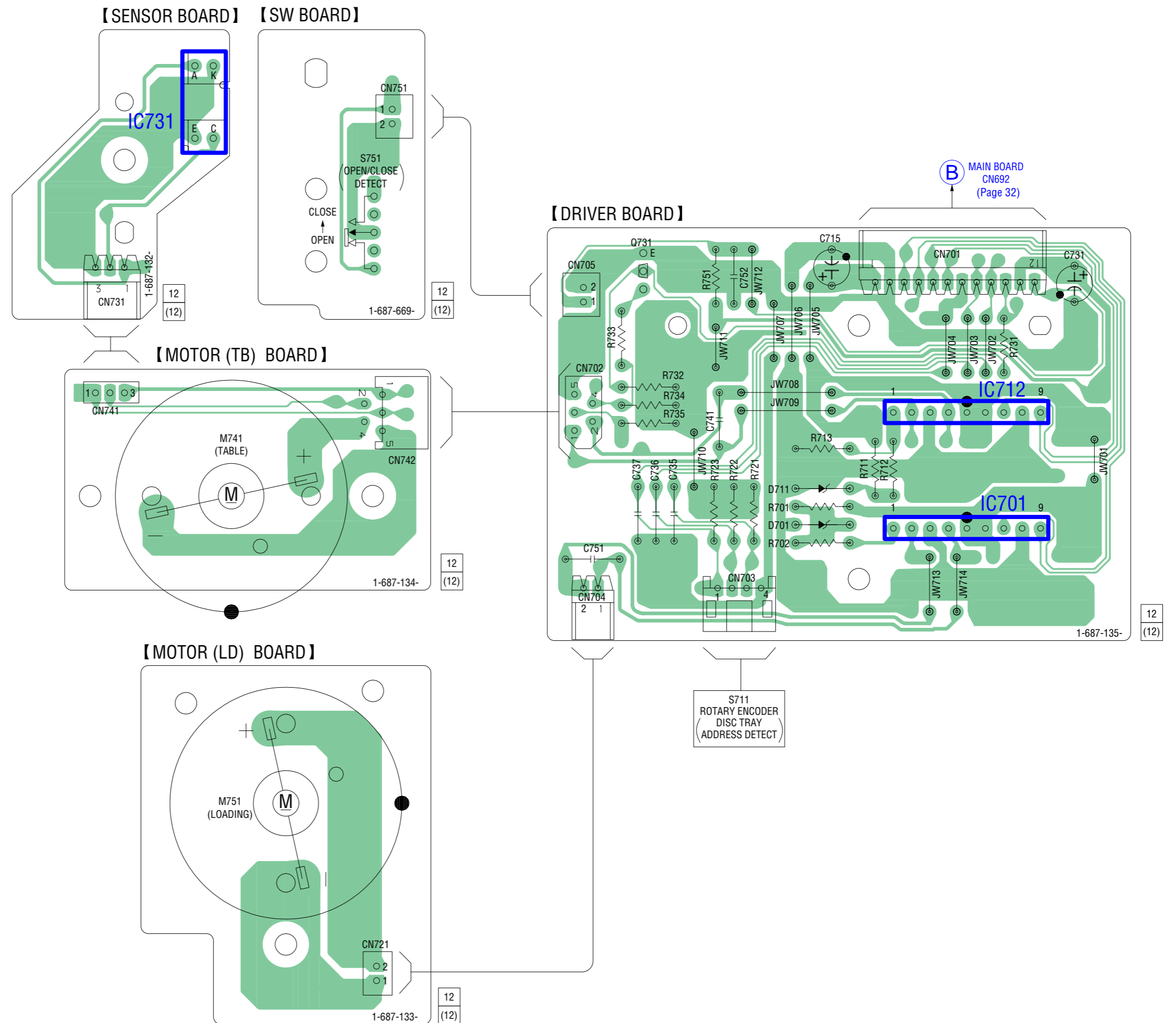
Ref. No.	Location
IC721	D-8
IC722	C-9
IC801	E-3
IC802	F-3
IC803	F-9
Q701	B-7

6-6. SCHEMATIC DIAGRAM – BD Section – • See page 40 for IC Block Diagram. • See page 40 for Waveforms.

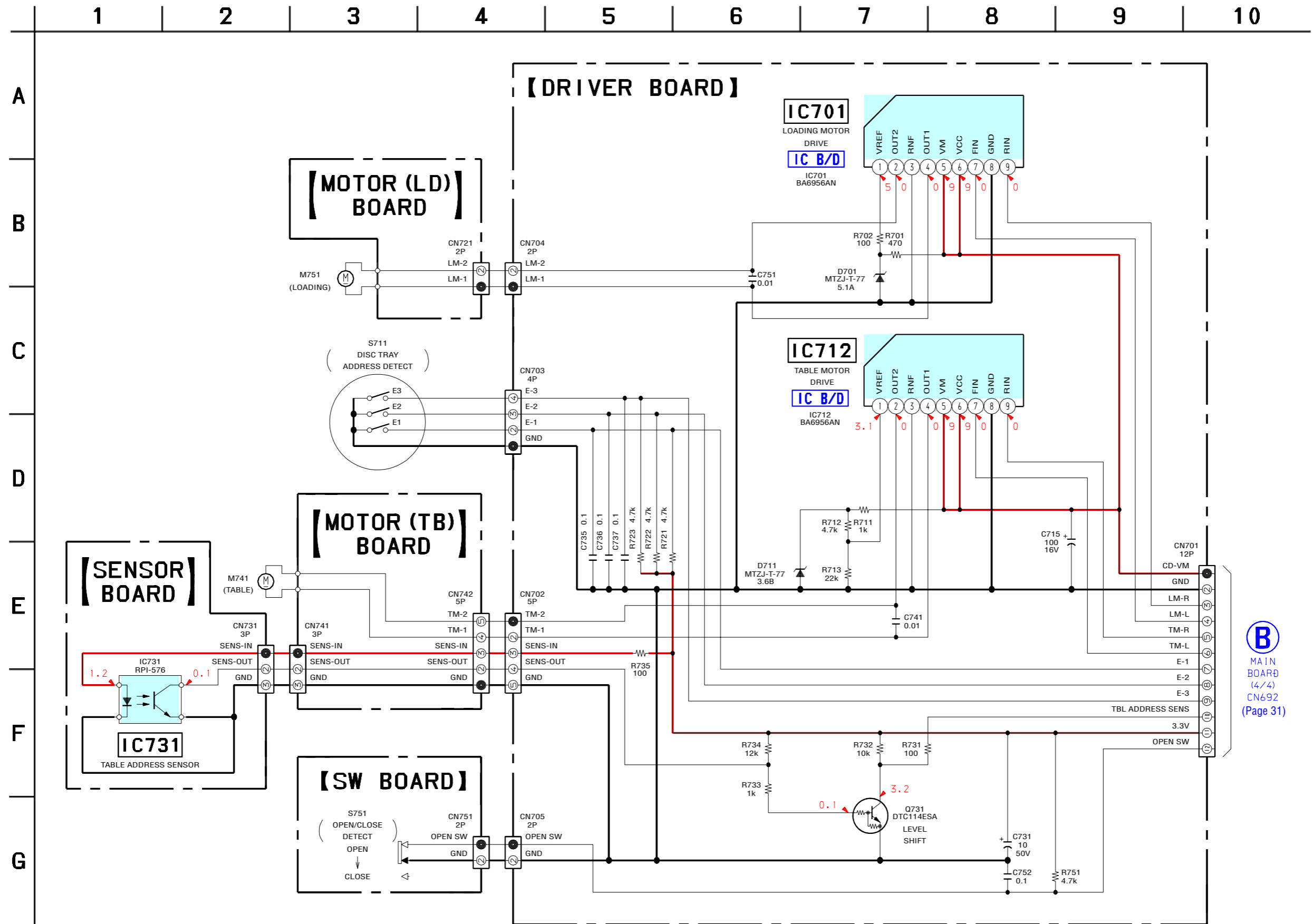


The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

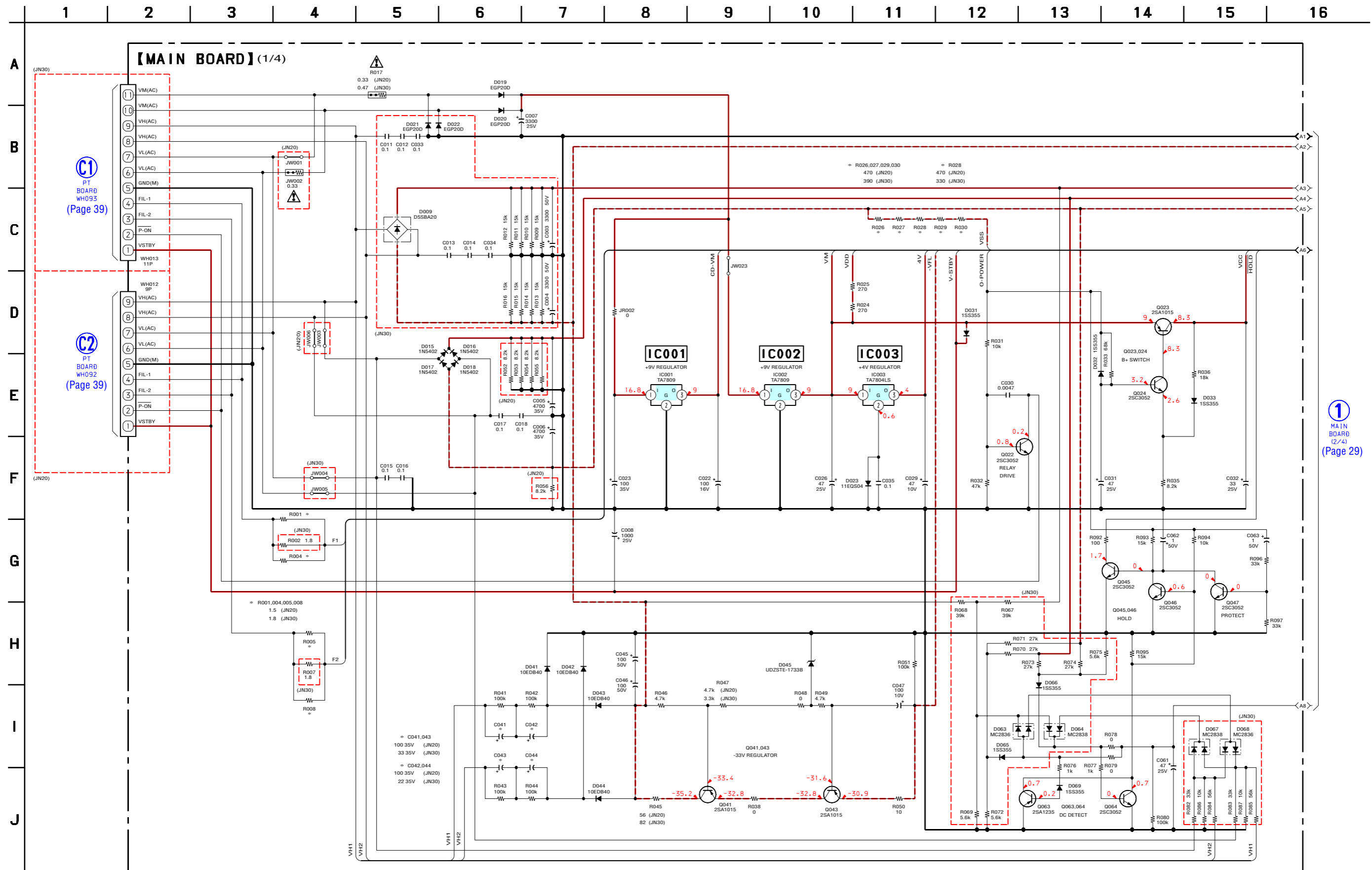
6-7. PRINTED WIRING BOARDS – CHANGER Section – • See page 23 for Circuit Boards Location.  :Uses unleaded solder.



6-8. SCHEMATIC DIAGRAM – CHANGER Section – • See page 40 for IC Block Diagrams.

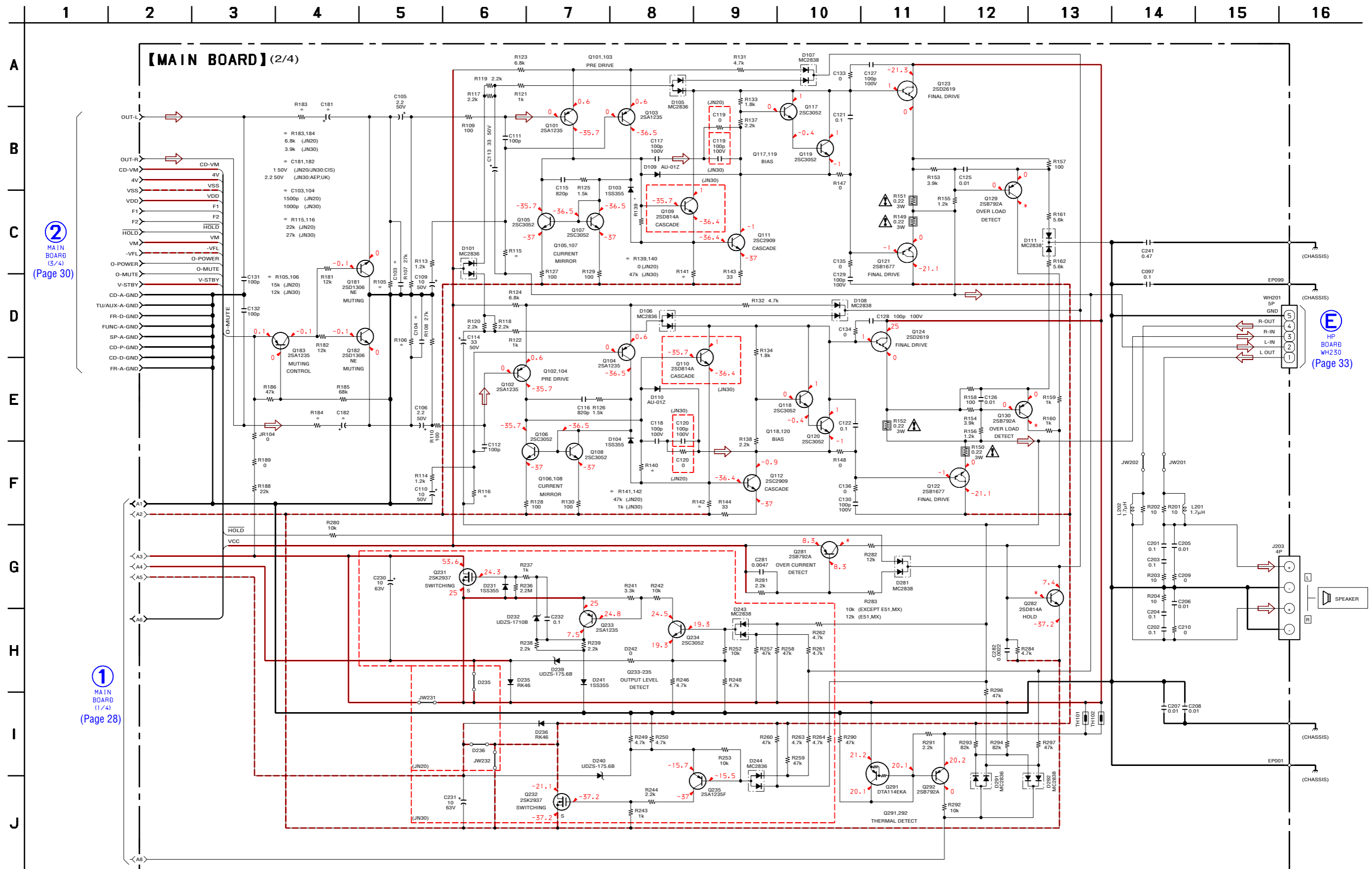


6-9. SCHEMATIC DIAGRAM – MAIN Section (1/4) –



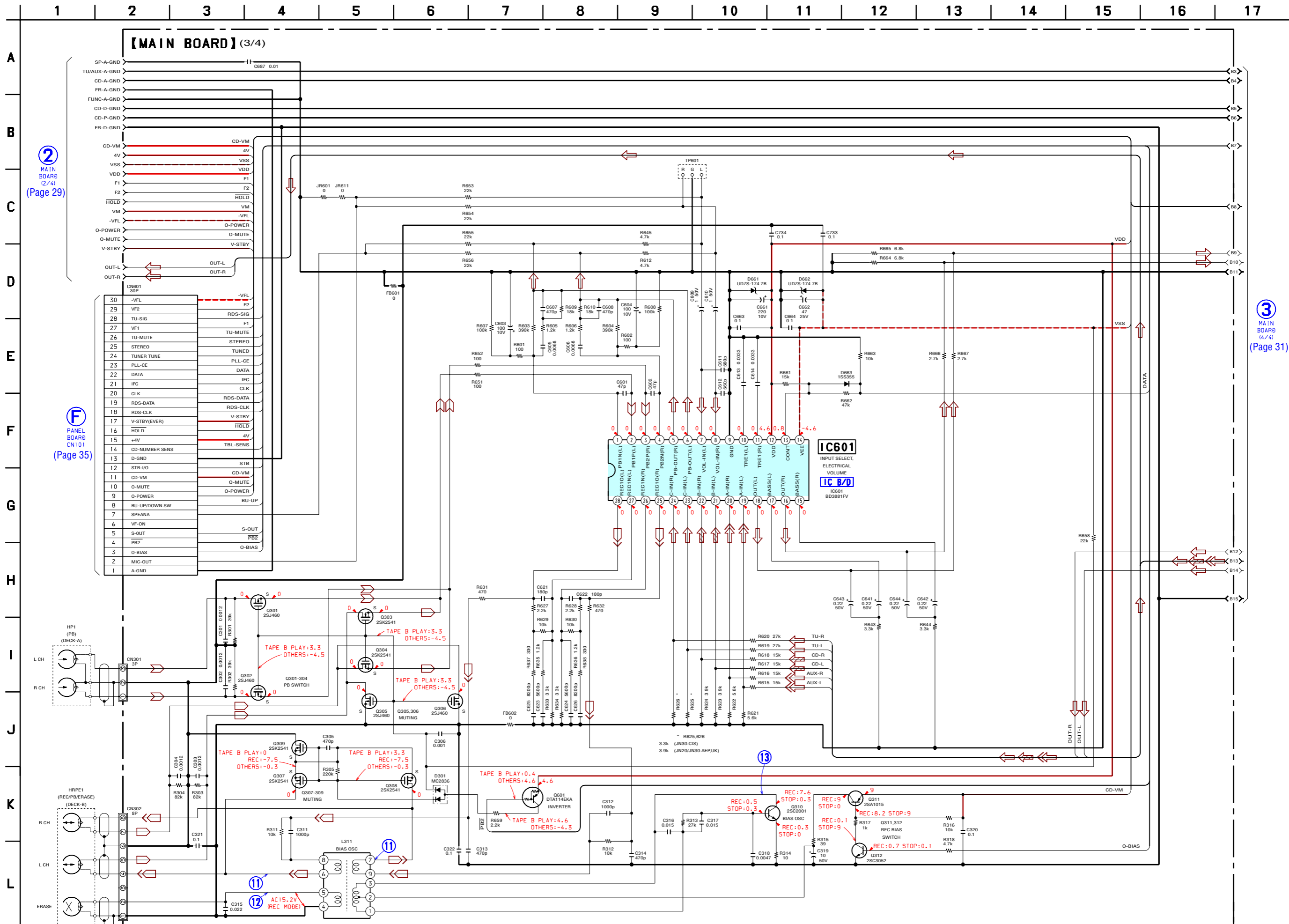
The components identified by mark **△** or dotted line with mark **△** are critical for safety. Replace only with part number specified.

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



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

6-11. SCHEMATIC DIAGRAM – MAIN Section (3/4) – • See page 40 for IC Block Diagram. • See page 40 for Waveforms.

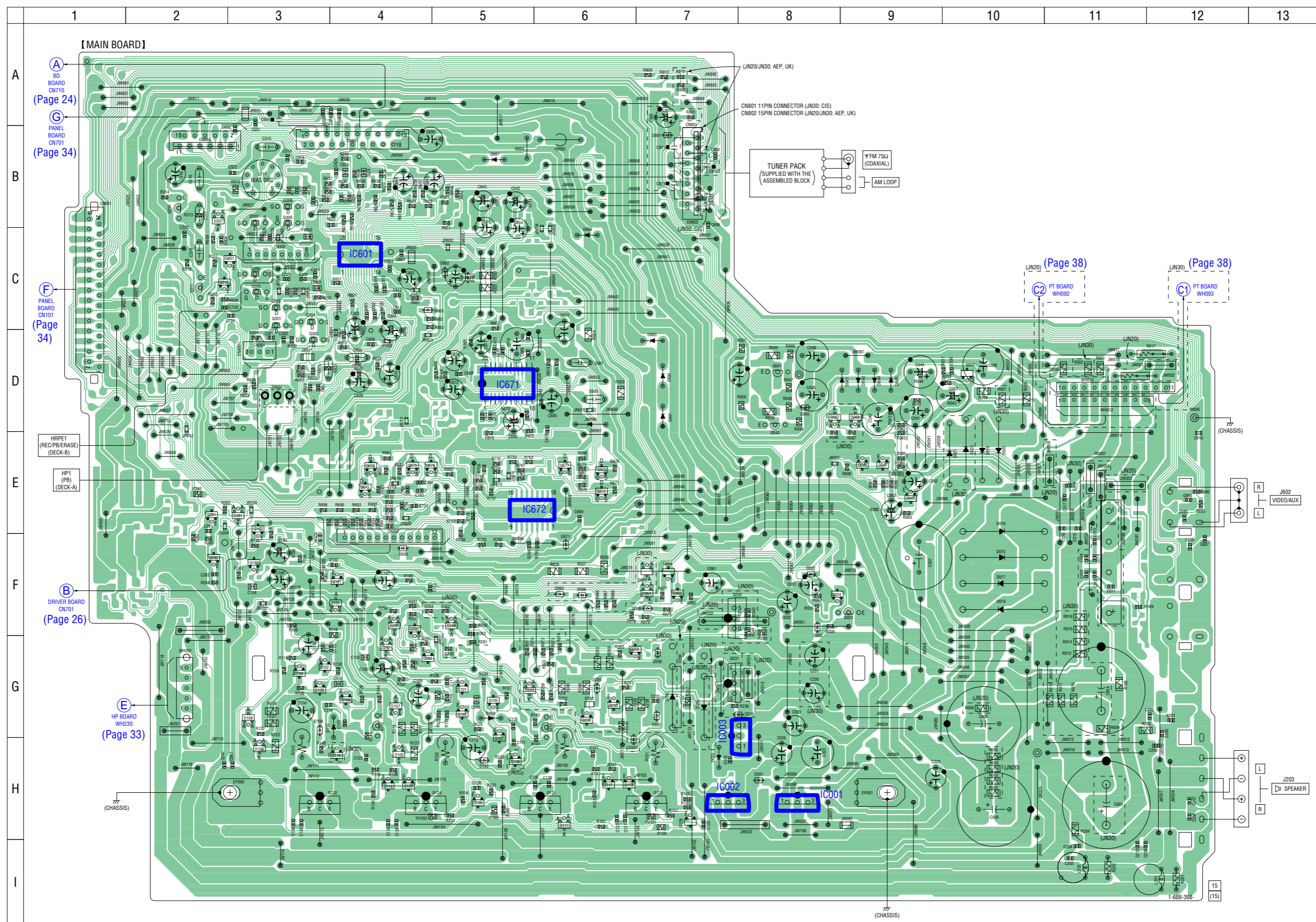


2 MAIN BOARD (2/4) (Page 29)

F PANEL BOARD CN101 (Page 35)

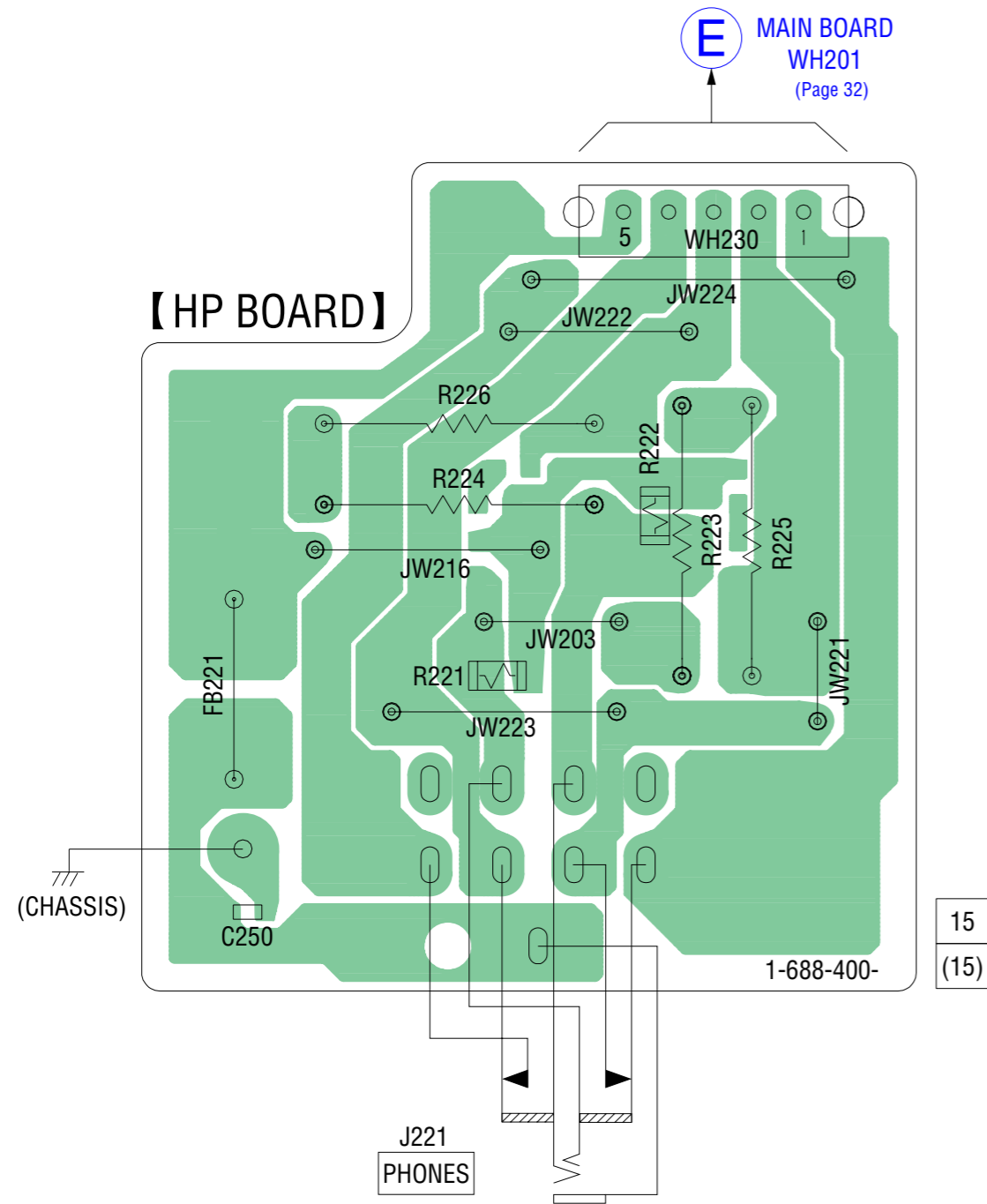
3 MAIN BOARD (4/4) (Page 31)

6-13. PRINTED WIRING BOARD – MAIN Section – • See page 23 for Circuit Boards Location.  :Uses unleaded solder.

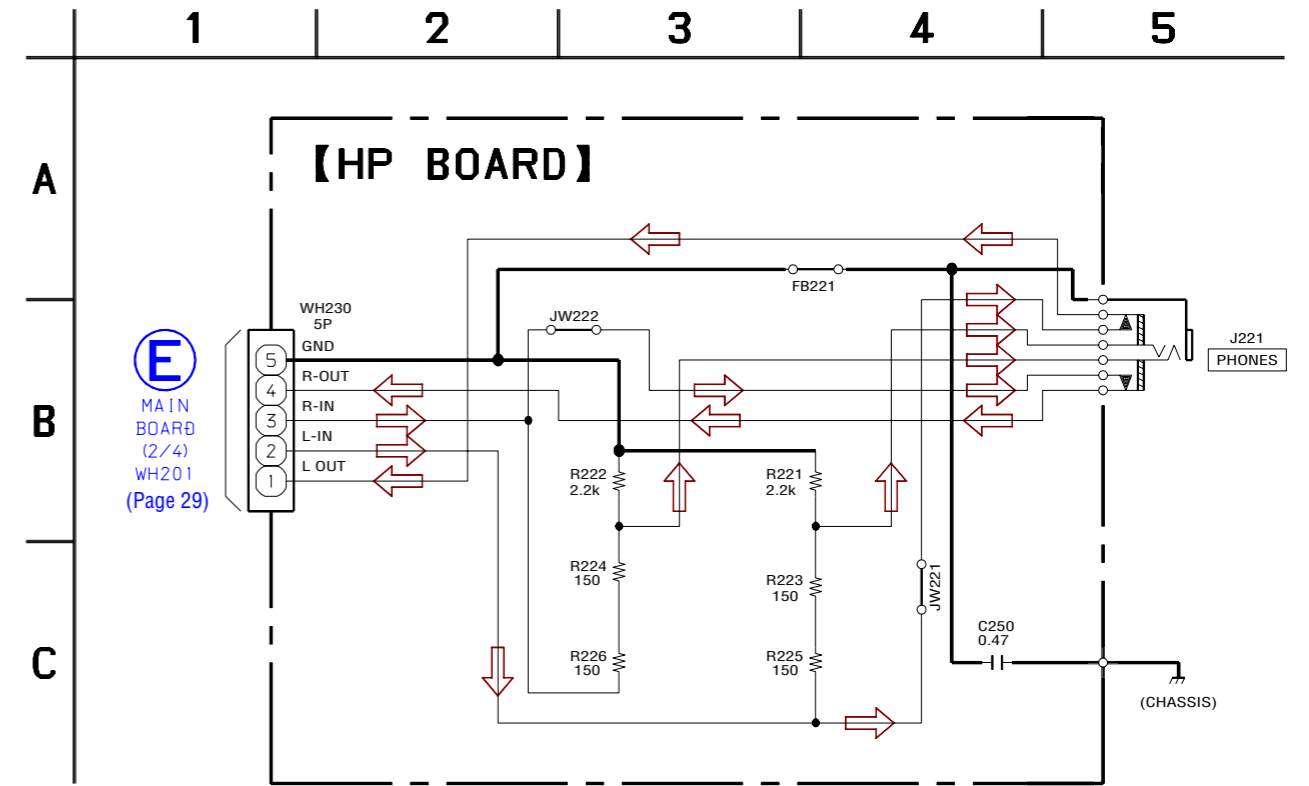


6-14. PRINTED WIRING BOARD – HP Section – • See page 23 for Circuit Boards Location.

 :Uses unleaded solder.




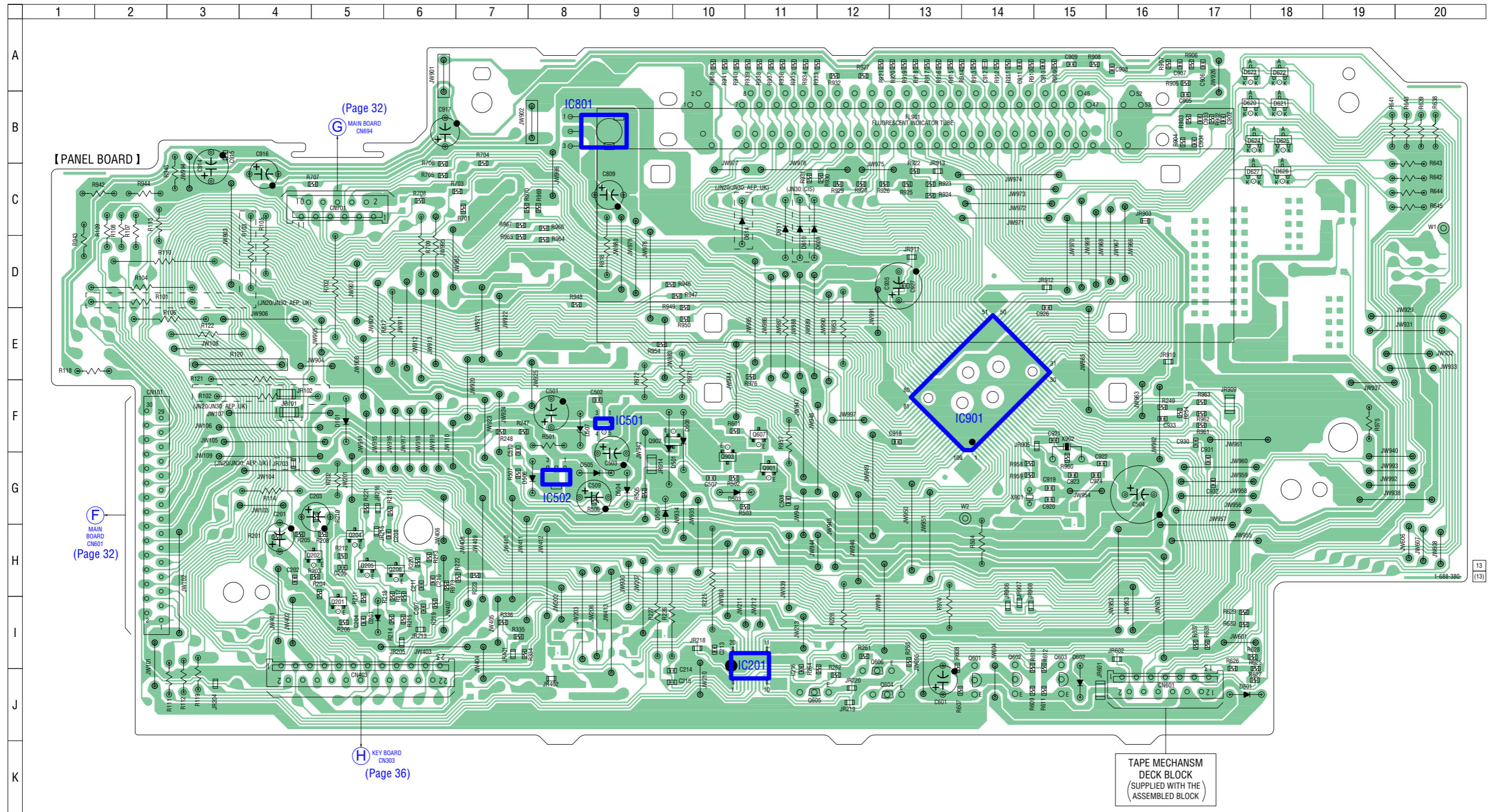
6-15. SCHEMATIC DIAGRAM – HP Section –



• Semiconductor Location – MAIN Board –

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location		
D009	F-11	D042	D-9	D105	H-4	D243	G-5	D695	F-4	Q023	F-9	Q106	G-3	Q124	H-4	Q292	G-4	Q671	E-6
D015	F-10	D043	D-9	D106	H-3	D244	F-5	D697	B-5	Q024	F-8	Q107	H-5	Q129	H-7	Q301	C-3	Q672	E-6
D016	E-10	D044	D-9	D107	G-4	D281	E-3	D801	B-7	Q041	D-8	Q108	G-3	Q130	H-5	Q302	D-3	Q673	E-6
D017	F-10	D045	D-8	D108	G-3	D291	F-4			Q043	D-8	Q109	H-5	Q181	F-4	Q303	C-3	Q674	E-4
D018	F-10	D063	F-7	D109	G-5	D292	G-4	IC001	H-8	Q045	E-9	Q110	H-4	Q182	F-3	Q304	C-3	Q675	E-4
D019	E-10	D064	F-7	D110	G-4	D301	B-2	IC002	H-7	Q046	E-9	Q111	G-6	Q183	E-3	Q305	C-3	Q676	E-4
D020	E-10	D065	F-6	D111	H-6	D661	C-5	IC003	G-8	Q047	E-9	Q112	G-4	Q231	G-7	Q306	C-3	Q677	E-4
D021	E-10	D066	F-6	D231	G-8	D662	C-5	IC601	C-4	Q063	F-7	Q117	H-6	Q232	F-7	Q307	B-3		
D022	E-10	D067	D-8	D232	G-7	D663	C-4	IC671	D-5	Q064	F-7	Q118	H-4	Q233	G-6	Q308	B-3		
D023	H-7	D068	D-9	D235	G-7	D671	F-6	IC672	F-5	Q101	G-5	Q119	H-6	Q234	G-6	Q309	B-3		
D031	H-8	D069	F-7	D236	G-7	D691	D-7			Q102	G-3	Q120	H-4	Q235	G-6	Q310	B-2		
D032	F-8	D101	F-4	D239	G-6	D692	D-7	JW690	D-6	Q103	G-5	Q121	H-6	Q281	E-2	Q311	C-2		
D033	F-8	D103	H-5	D240	G-7	D693	D-7			Q104	G-3	Q122	H-3	Q282	F-2	Q312	C-2		
D041	D-9	D104	G-3	D241	H-6	D694	C-6	Q022	D-10	Q105	G-5	Q123	H-7	Q291	F-4	Q601	C-3		

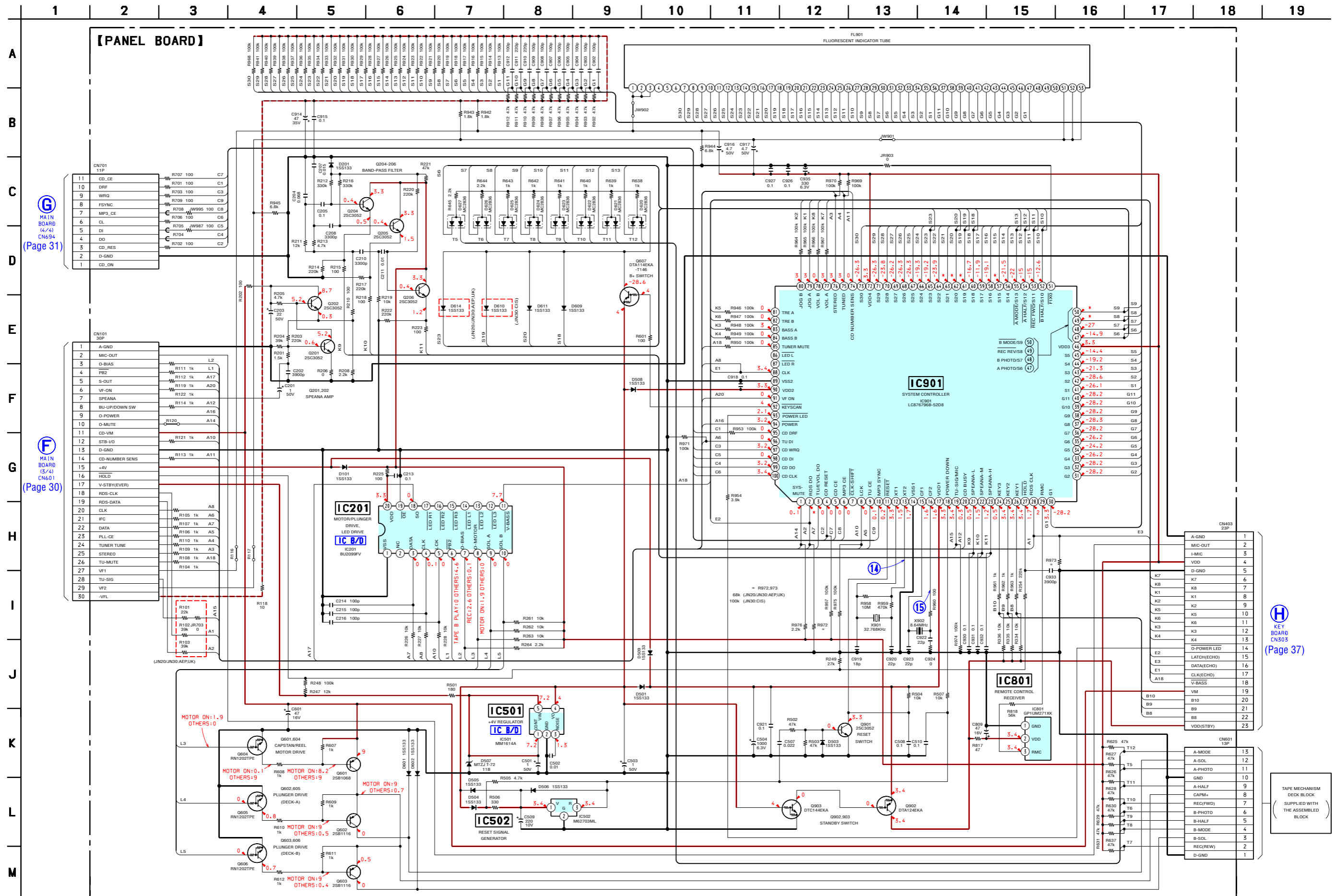
6-16. PRINTED WIRING BOARD – PANEL Section – • See page 23 for Circuit Boards Location.  :Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	F-5	D609	C-11	IC201	I-11	Q601	J-14
D201	I-5	D610	C-11	IC202	H-5	Q602	J-14
D501	F-9	D611	C-11	IC501	F-9	Q603	J-15
D503	G-10	D614	C-10	IC502	G-8	Q604	J-12
D504	G-9	D620	B-18	IC801	B-9	Q605	J-11
D505	G-8	D621	B-18	IC901	F-14	Q606	J-12
D506	G-8	D622	A-18			Q607	F-11
D507	F-8	D623	A-18	Q201	I-5	Q901	G-11
D508	F-10	D624	B-18	Q202	H-5	Q902	F-10
D509	G-9	D625	B-18	Q204	H-5	Q903	G-10
D601	J-17	D626	C-18	Q205	H-5		
D602	J-15	D627	C-18	Q206	H-6		

6-17. SCHEMATIC DIAGRAM – PANEL Section – • See page 40 for IC Block Diagrams. • See page 40 for Waveforms. • See page 43 for IC Pin Function Description.

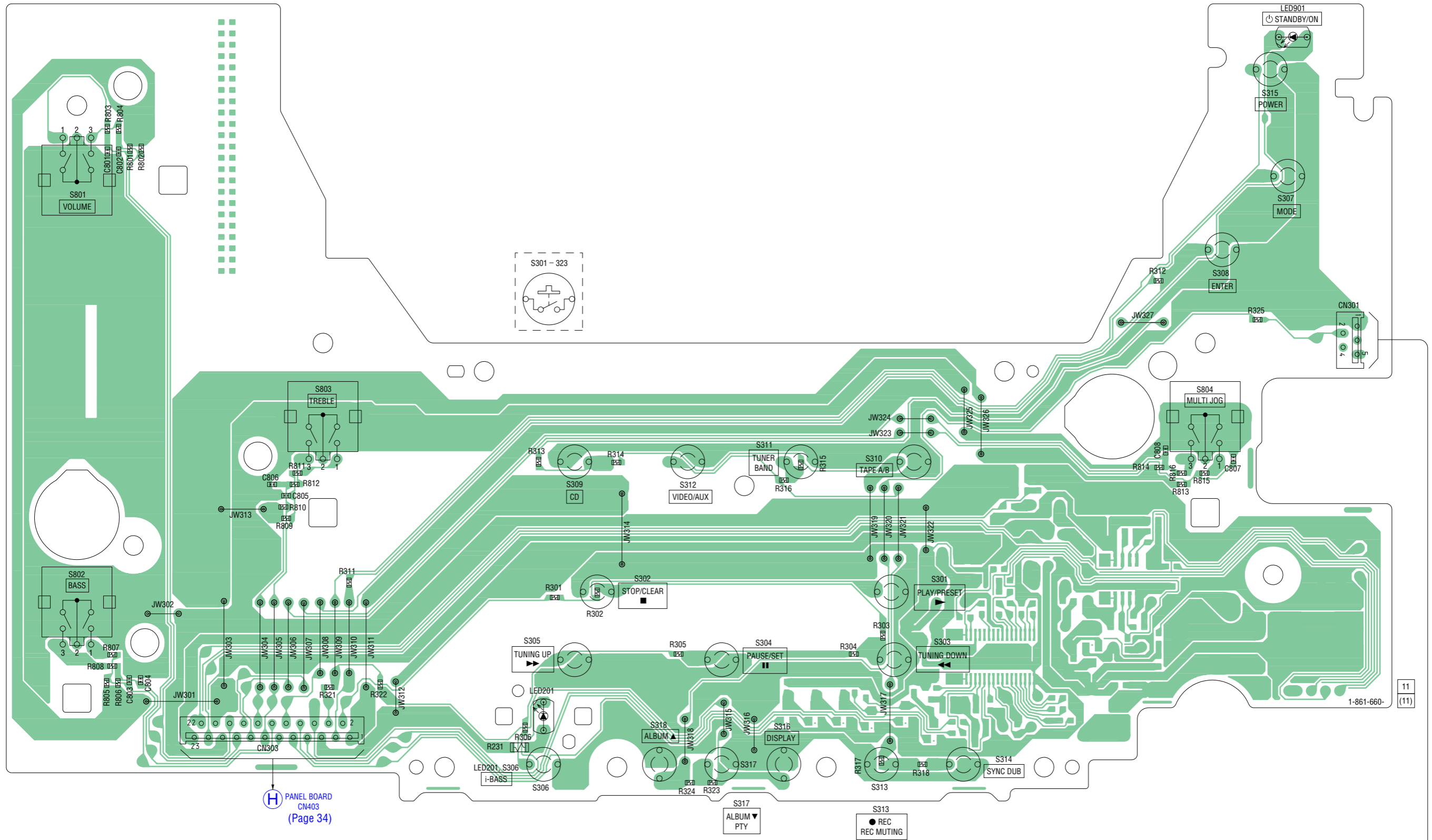


KEY BOARD CN503 (Page 37)

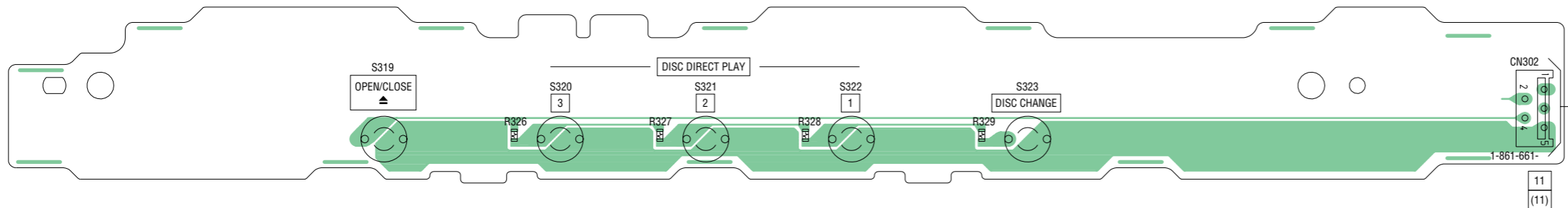
TAPE MECHANISM DECK BLOCK SUPPLIED WITH THE ASSEMBLED BLOCK

6-18. PRINTED WIRING BOARDS – KEY Section – • See page 23 for Circuit Boards Location.  :Uses unleaded solder.

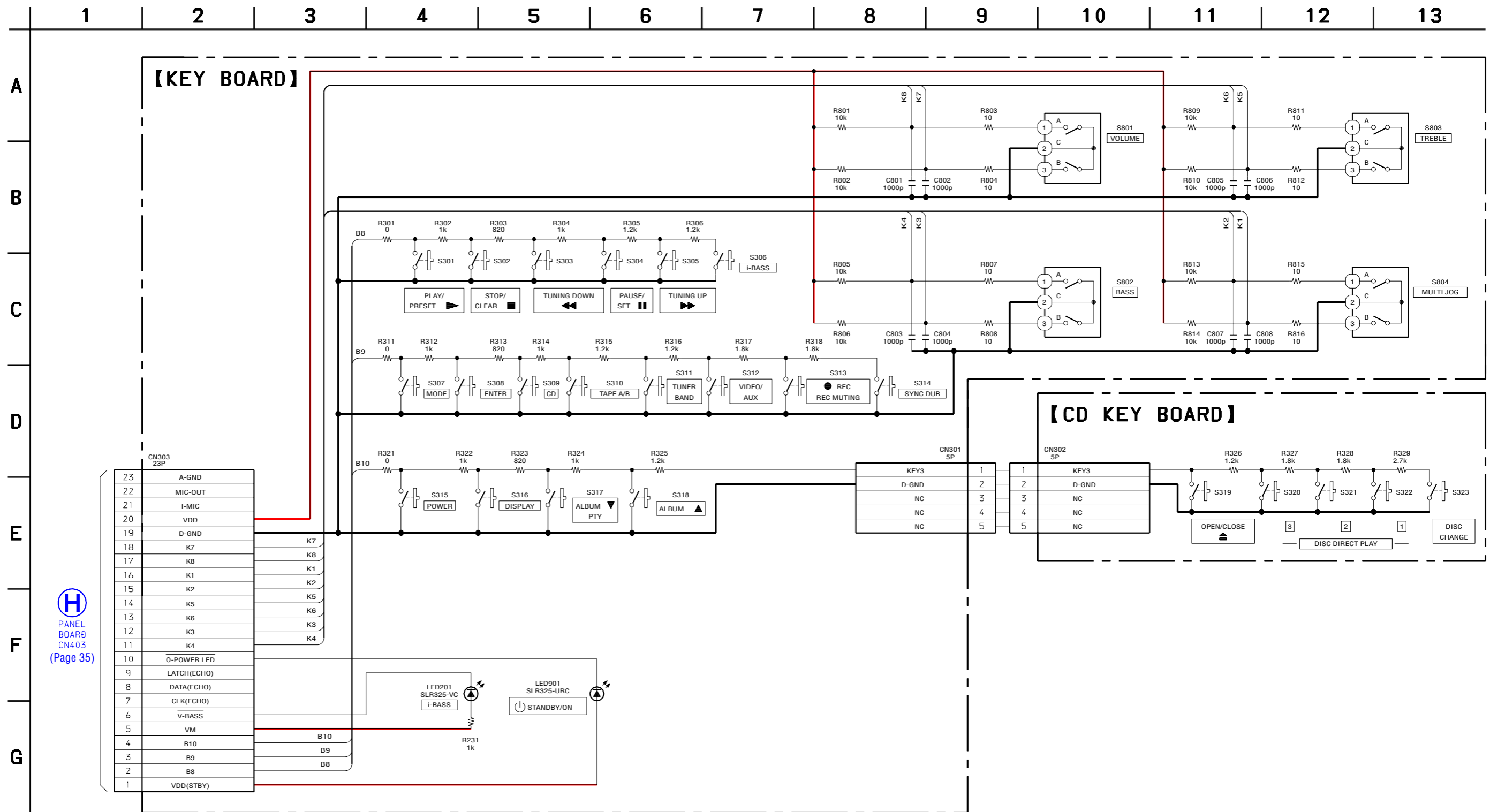
【KEY BOARD】



【CD KEY BOARD】



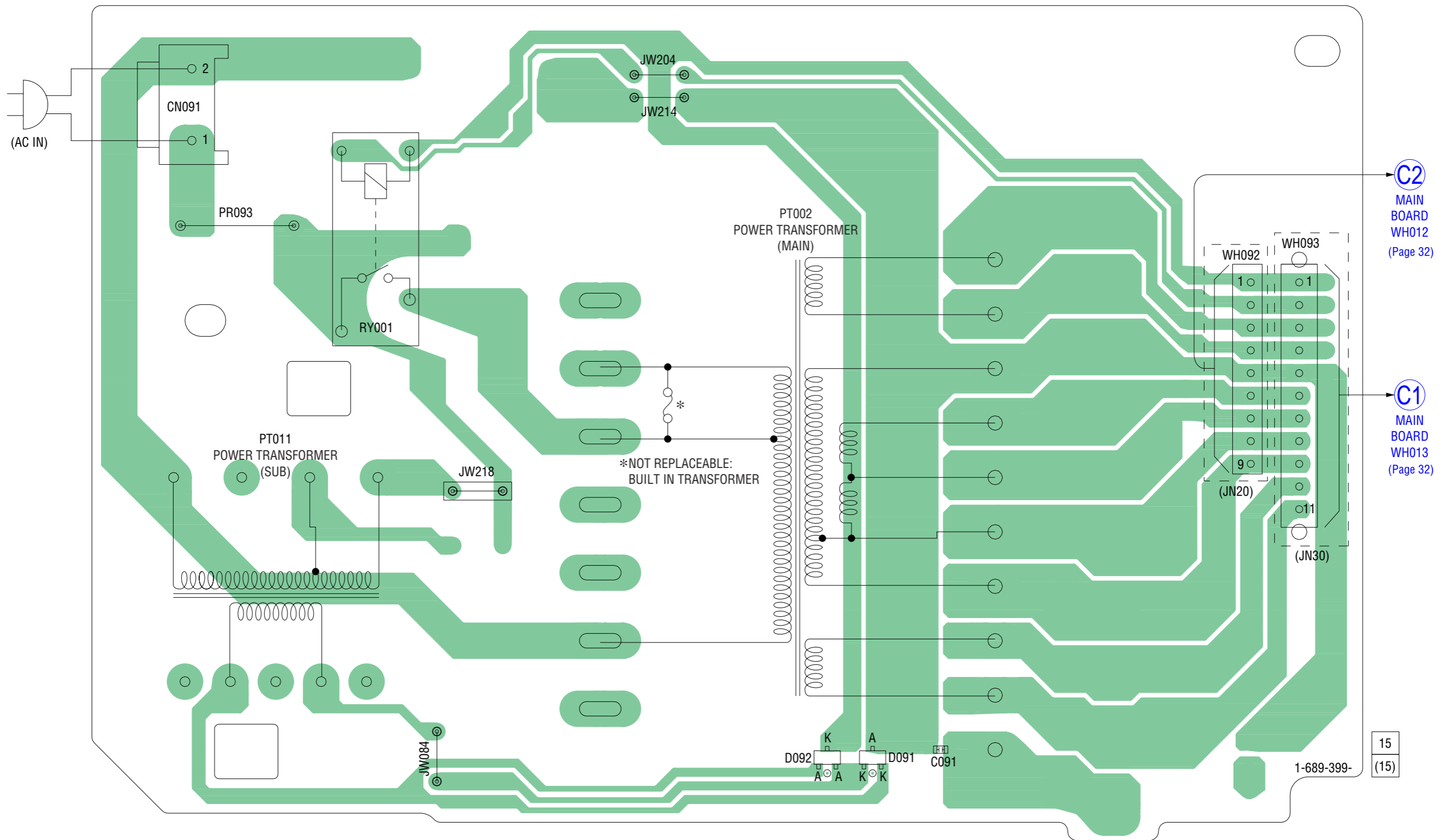
6-19. SCHEMATIC DIAGRAM – KEY Section –



H
PANEL BOARD
CN403
(Page 35)

6-20. PRINTED WIRING BOARD – PT Section – • See page 23 for Circuit Boards Location.  :Uses unleaded solder.

【PT BOARD】



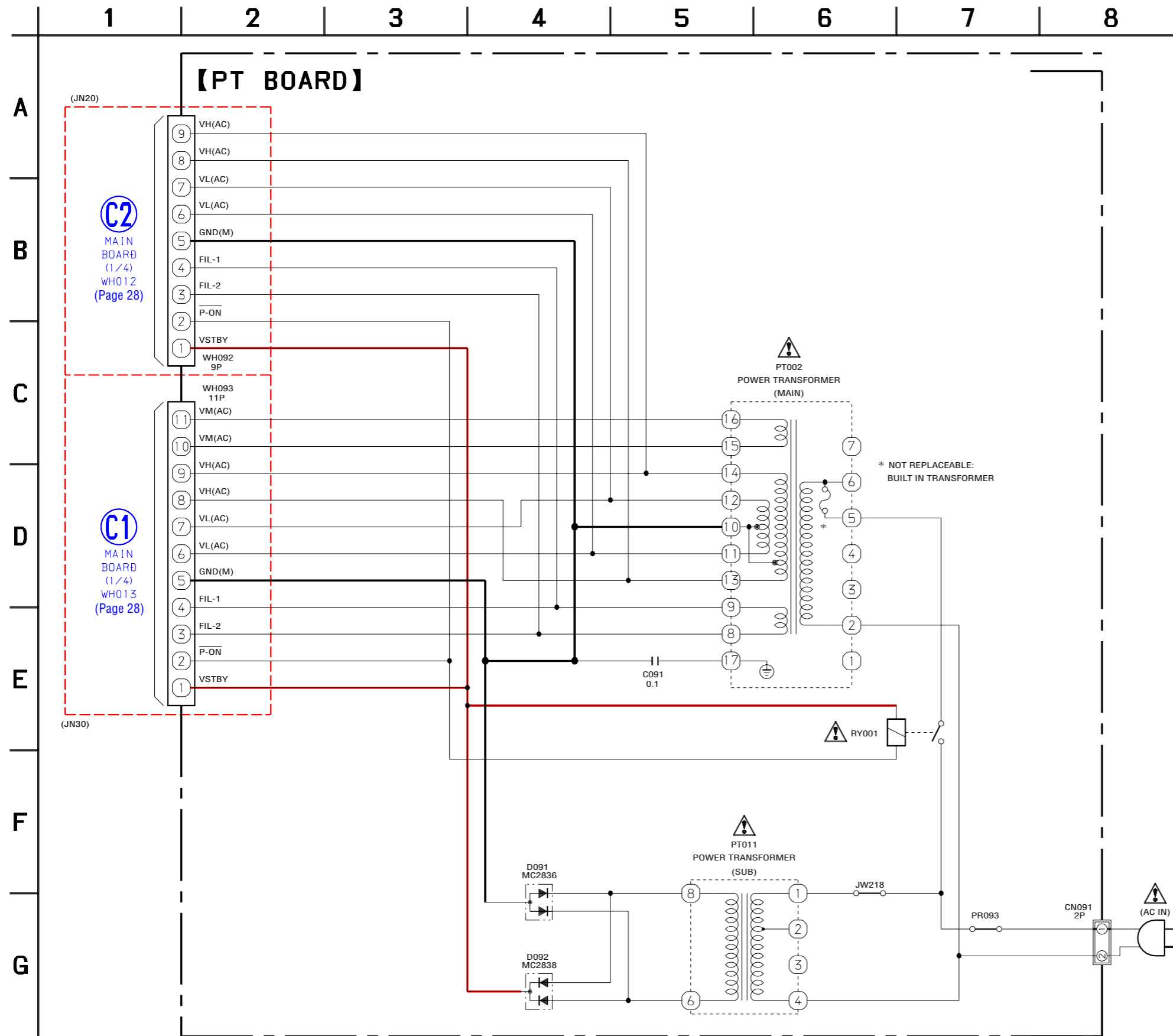
C2
MAIN BOARD
WH012
(Page 32)

C1
MAIN BOARD
WH013
(Page 32)

15
(15)

1-689-399-

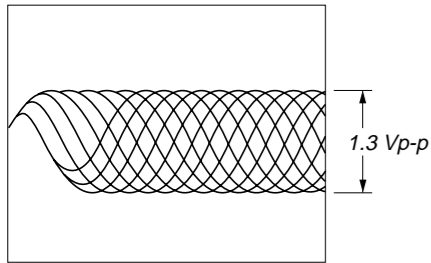
6-21. SCHEMATIC DIAGRAM – PT Section –



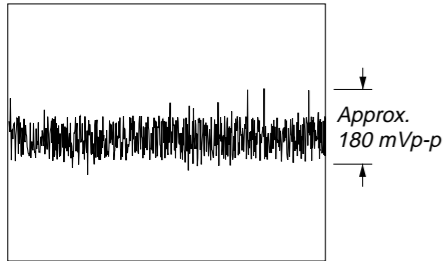
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

• Waveforms
– BD Board –

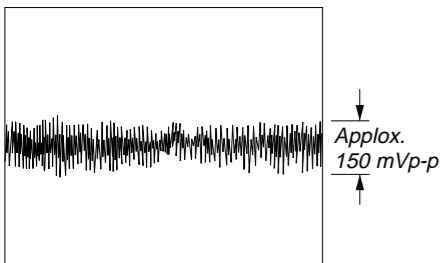
① IC721 ④ (RF) (CD Play Mode)



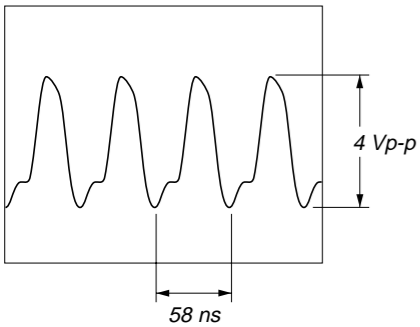
② IC721 ⑬ (FE) (CD Play Mode)



③ IC721 ⑮ (TE) (CD Play Mode)

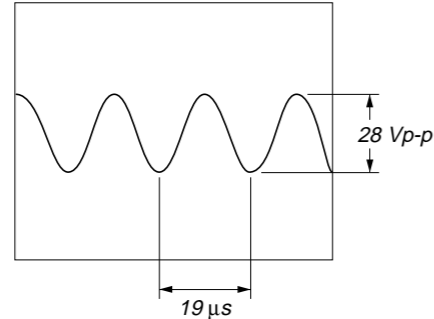


④ IC721 ⑳ (XOUT)

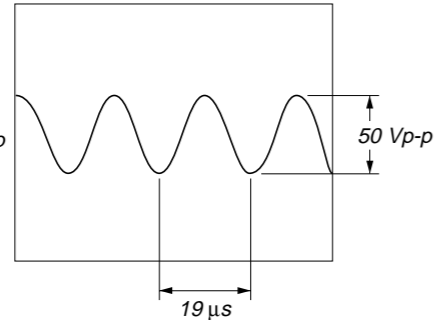


– MAIN Board –

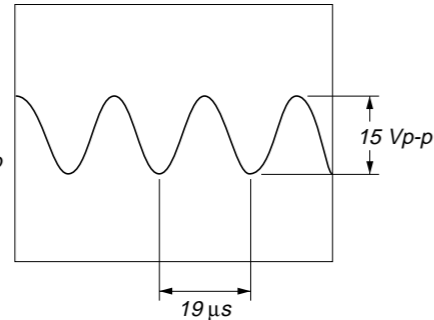
⑪ L311 ⑥, ⑦ (REC Mode)



⑫ L311 ⑤ (REC Mode)

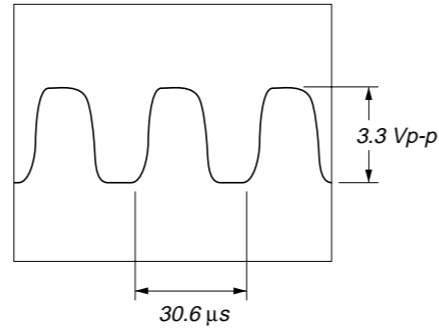


⑬ Q310 (Collector) (REC Mode)

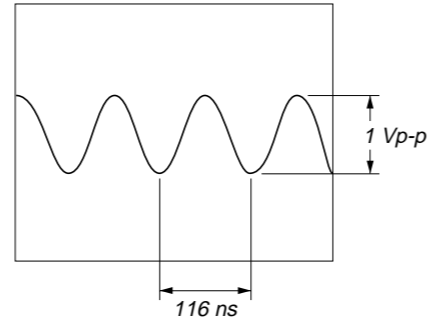


– PANEL Board –

⑭ IC901 ⑬ (XT2)

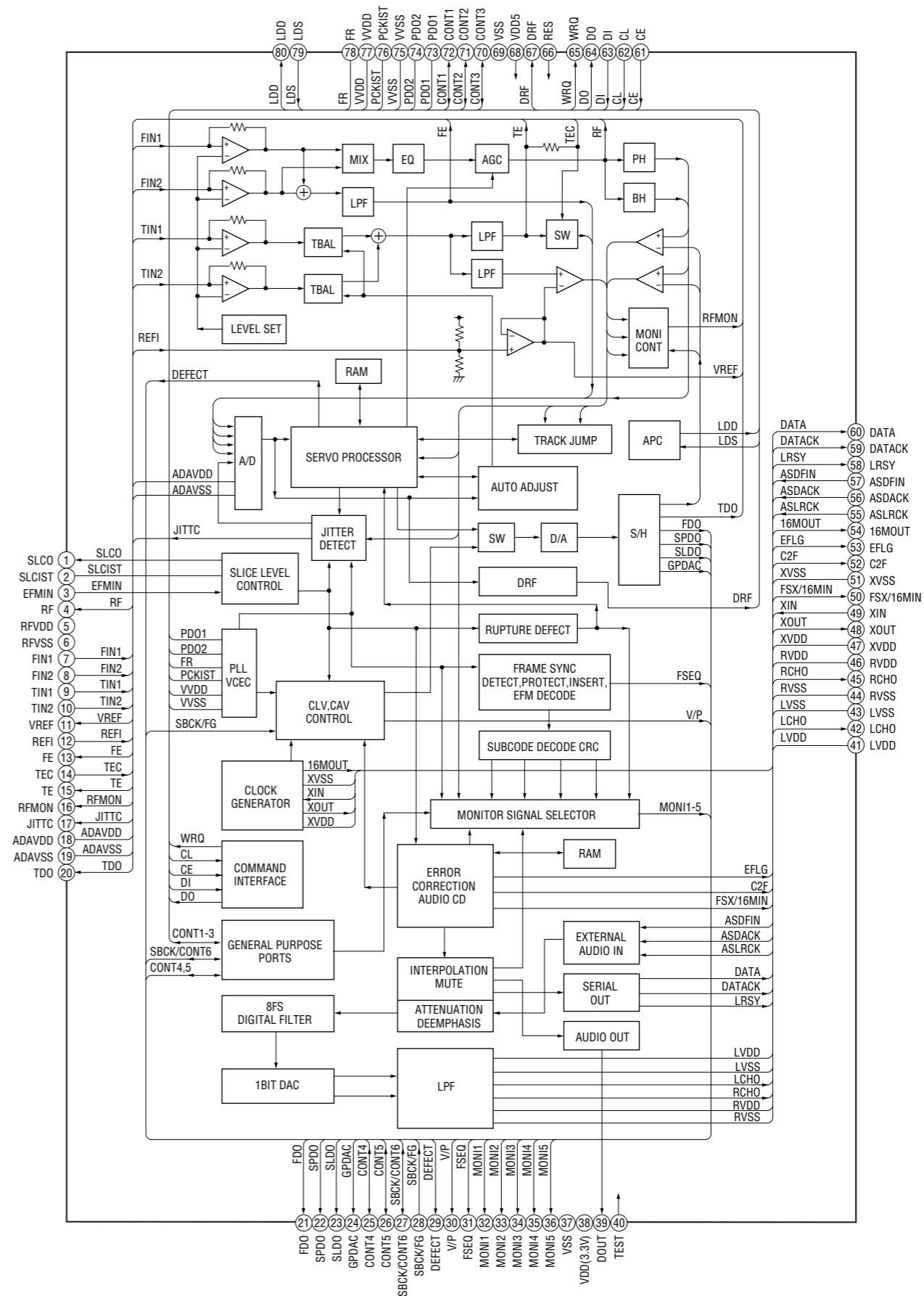


⑮ IC901 ⑯ (CF2)



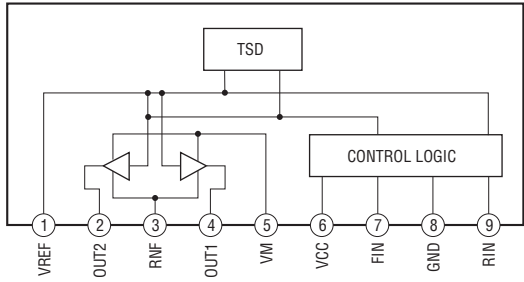
• IC Block Diagrams
– BD Board –

IC721 LC78646E-E



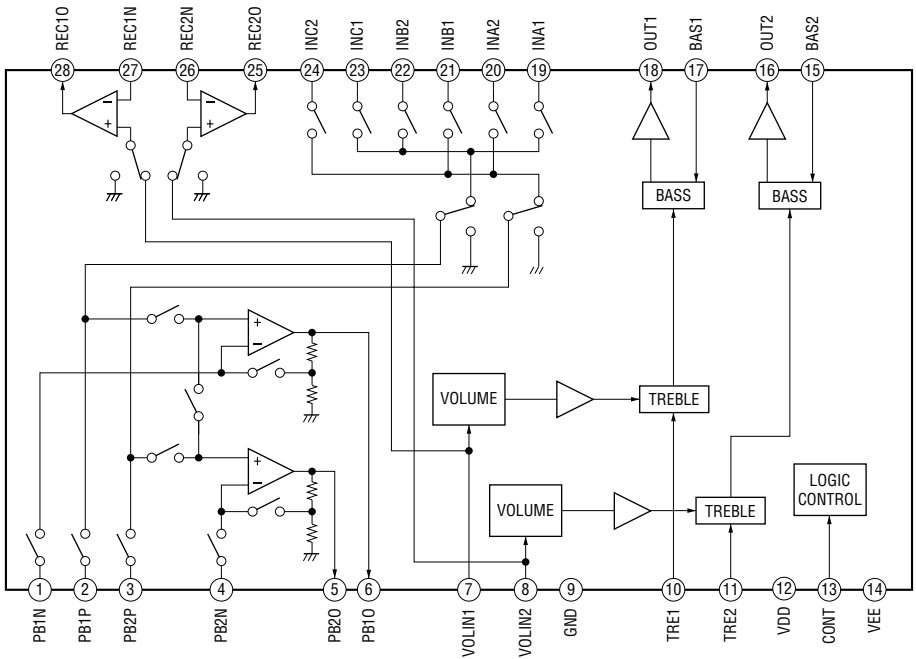
- DRIVER Board -

IC701, 712 BA6956AN

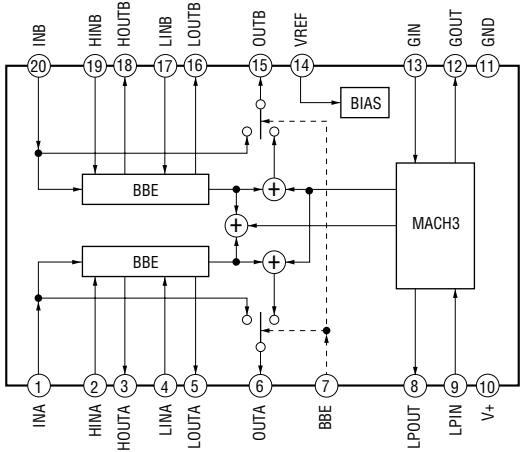


- MAIN Board -

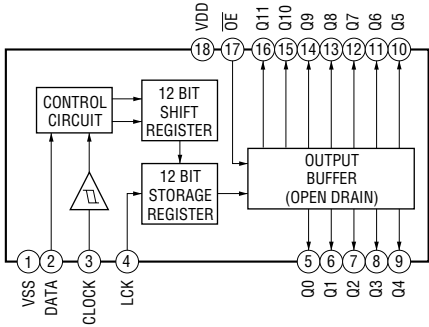
IC601 BD3881FV



IC671 NJM2156M (TE2)



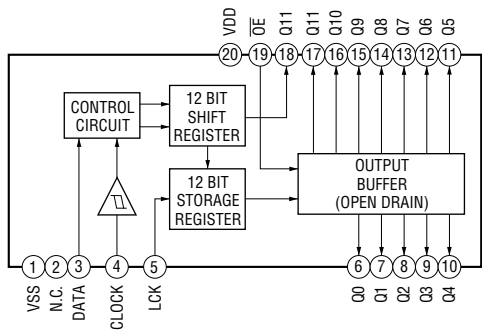
IC672 BU2092F-E2



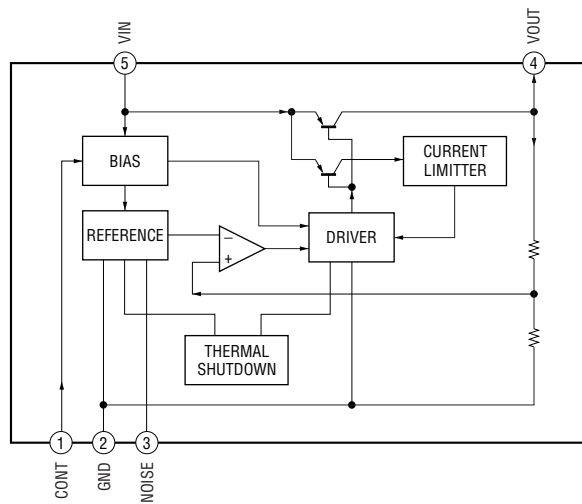
CX-JN20/JN30

– PANEL Board –

IC201 BU2099FV



IC501 MM1614A



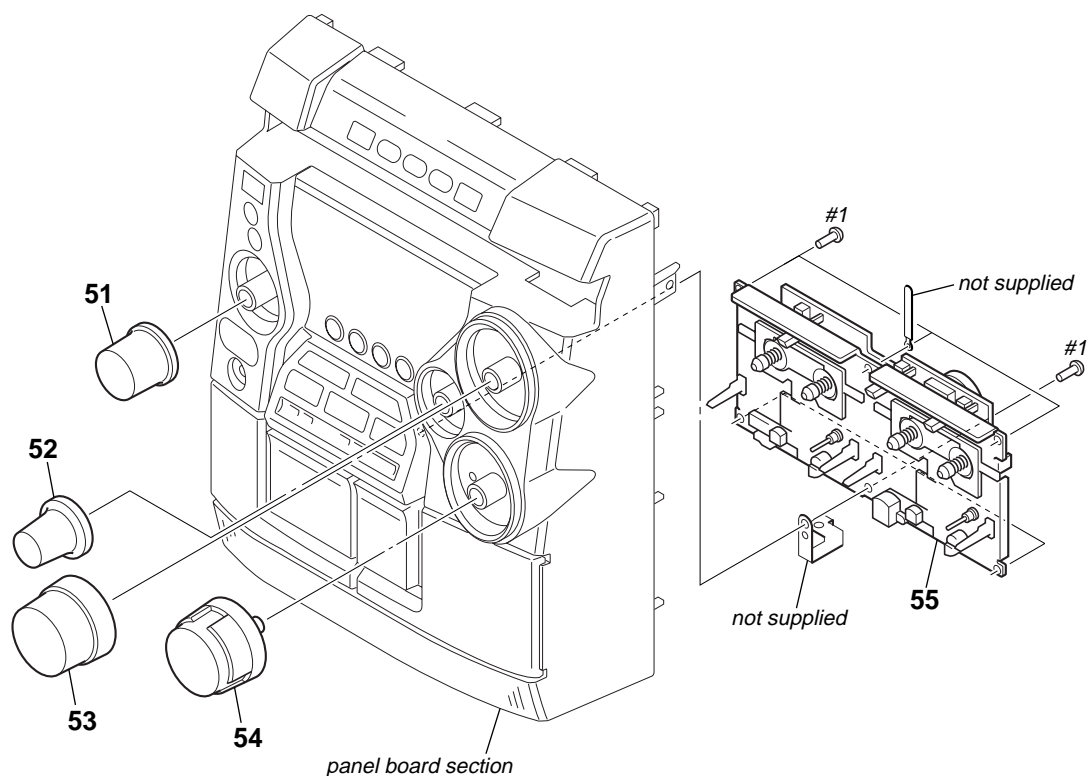
• IC Pin Function Description

PANEL BOARD IC901 LC87696B-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 tuner pack (CX-JN20 and CX-JN30: AEP, UK models)
3	TU/EVOL DO	O	Serial data output to the tuner pack, motor/plunger/LED 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	CLK-SHIFT	O	Shift clock signal output terminal Not used
8	LCK	O	Latch clock signal output to the motor/plunger/LED driver
9	TU CE	O	Chip enable signal output to the tuner pack
10	MP3 SYNC	I	SYNC signal input from the MP3 decoder
11	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 (CX-JN20 and CX-JN30: AEP, UK models)
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	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 pack (CX-JN20 and CX-JN30: AEP, UK models)
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	REC REV/S8	I/O	Recording (reverse direction) detection signal input and segment drive signal output to the fluorescent indicator tube
50	B MODE/S9	I/O	Deck-B mode detection signal input and segment drive signal output to the fluorescent indicator tube
51	FIX0	I/O	Not used
52	B HALF/S10	I/O	Deck-B cassette detection signal input and segment drive signal output to the fluorescent indicator tube

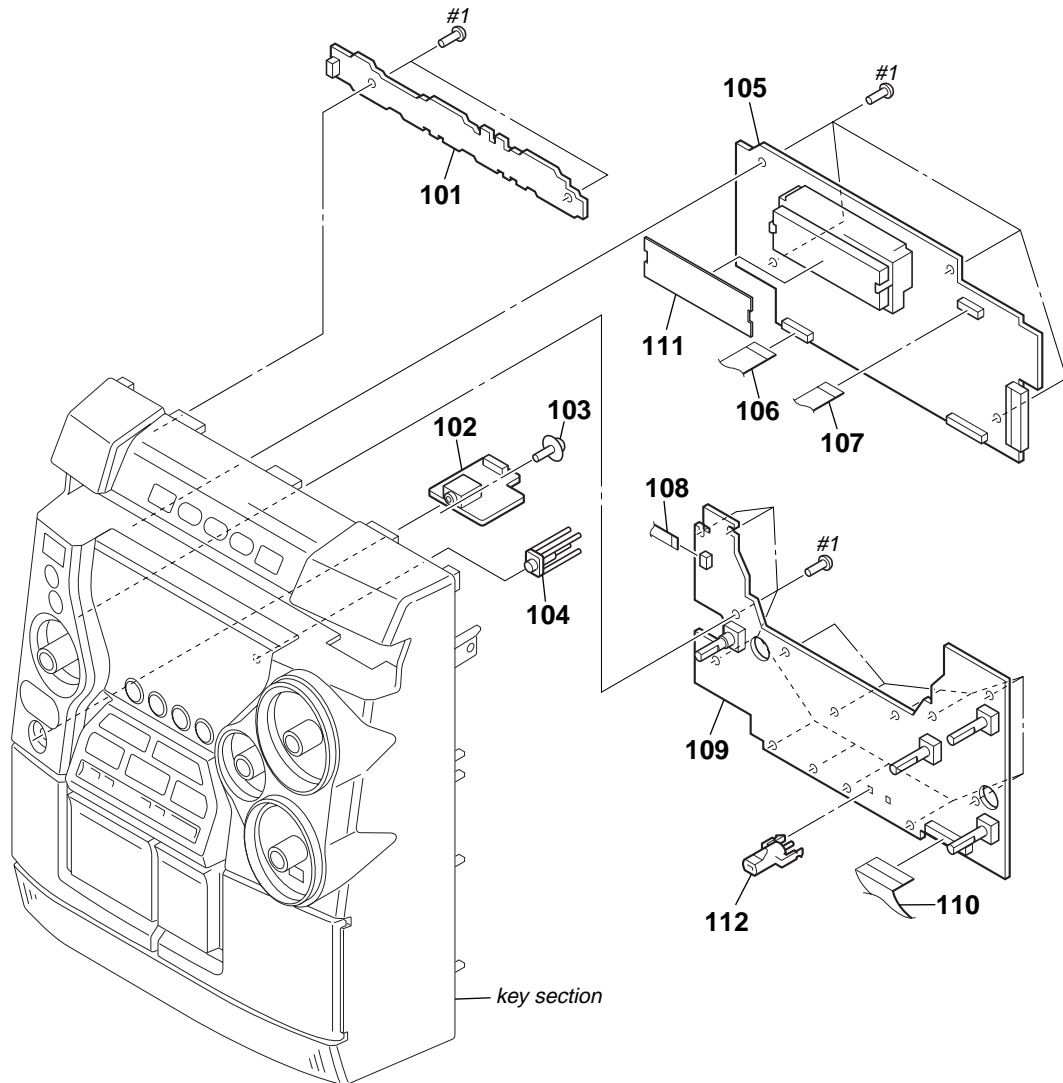
Pin No.	Pin Name	I/O	Description
53	$\overline{\text{REC FWD}}/\text{S11}$	I/O	Recording (forward direction) detection signal input and segment drive signal output to the fluorescent indicator tube
54	$\overline{\text{A HALF}}/\text{S12}$	I/O	Deck-A cassette detection signal input and segment drive signal output to the fluorescent indicator tube
55	$\overline{\text{A MODE}}/\text{S13}$	I/O	Deck-A mode detection signal input and segment drive signal output to the fluorescent indicator tube
56 to 71	S14 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 pack
76	STEREO	I	FM stereo detection signal input from the tuner pack
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 (MULTI JOG)
80	JOG B	I	Jog dial pulse input terminal (MULTI 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 Not used
87	$\overline{\text{LED R}}$	O	LED drive signal output terminal Not used
88	CLK	O	Serial data transfer clock signal output to the tuner pack, motor/plunger/LED 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
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 tuner pack
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

7-2. TAPE DECK SECTION



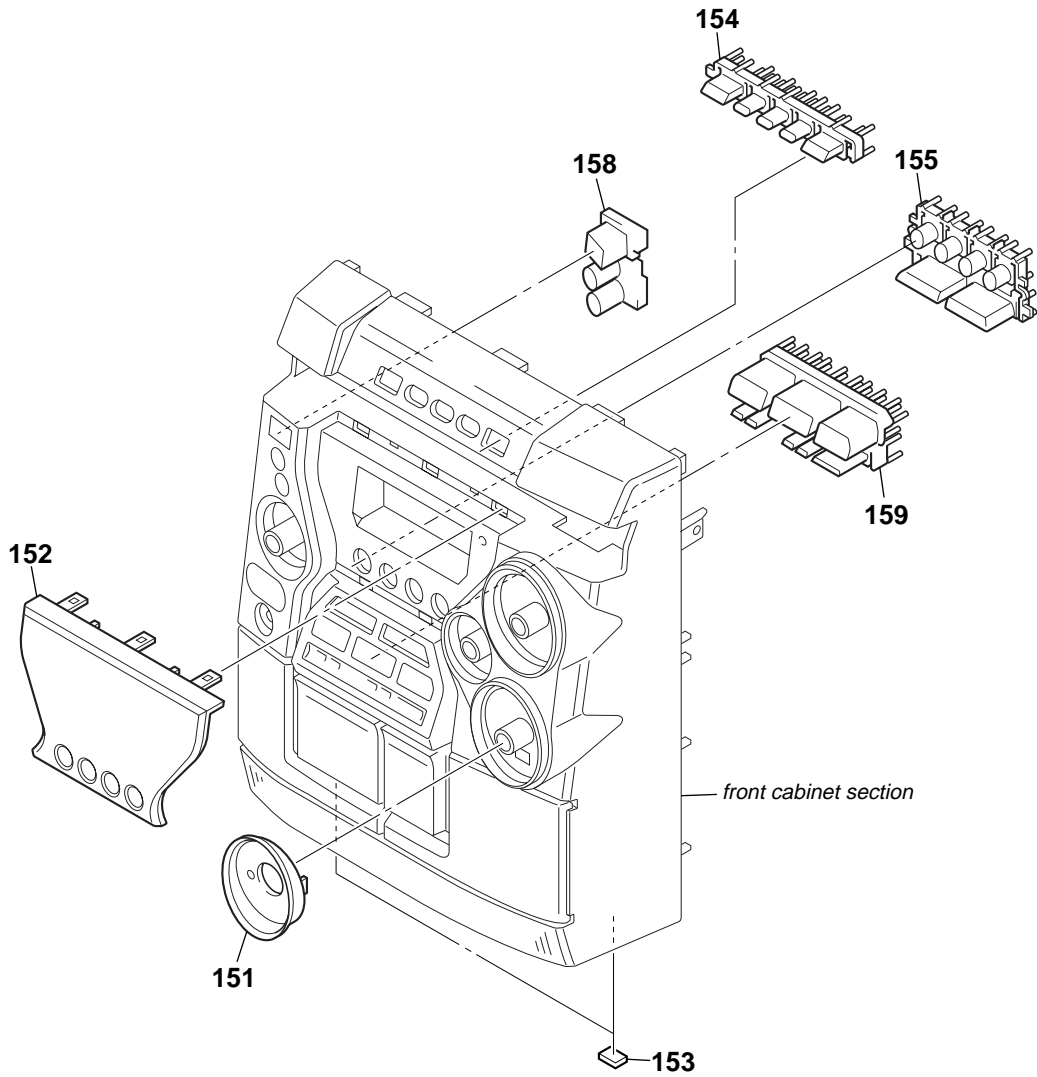
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-245-177-11	ROTARY (JOG), KNOB		54	4-245-176-01	PLATING, KNOB ROTARY (BASS)	
52	4-245-179-11	ROTARY (TRE), KNOB		55	1-796-485-51	DECK, MECHANICAL (CWM43FF13)	
53	4-245-182-01	PLATING, KNOB ROTARY (VOL)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

7-3. PANEL BOARD SECTION



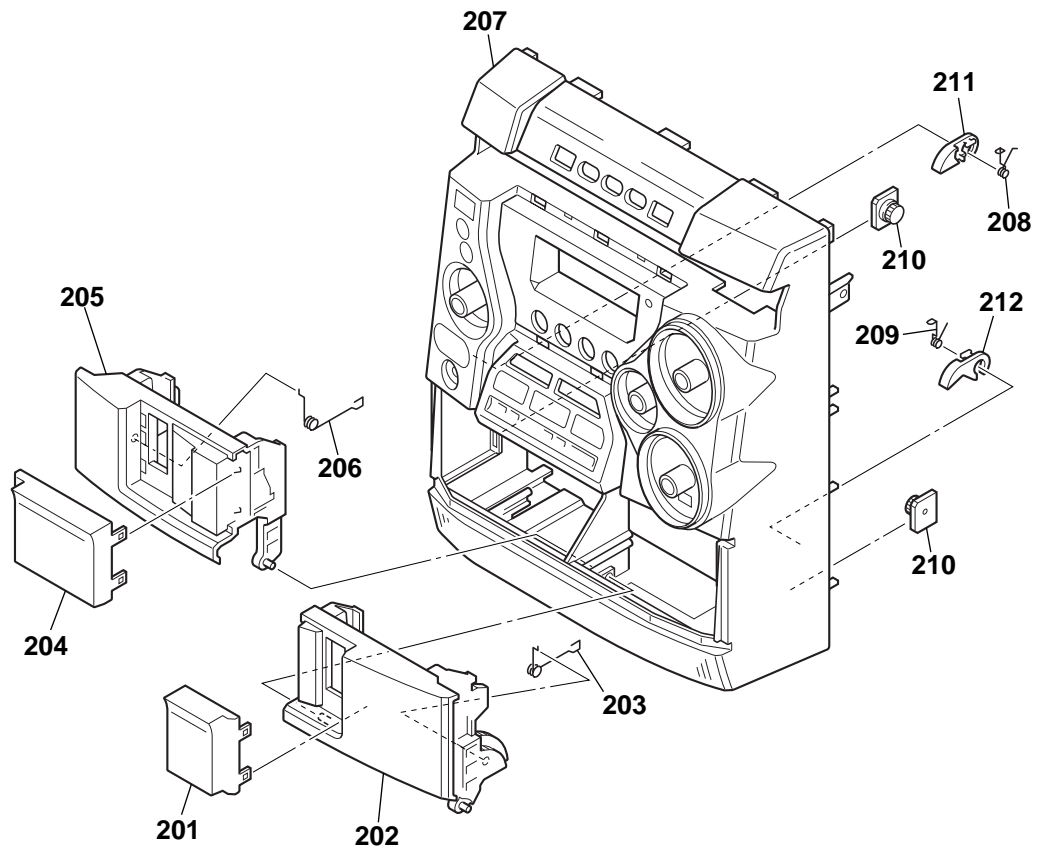
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	1-861-661-11	CD KEY BOARD		107	1-769-944-11	WIRE (FLAT TYPE) (11 CORE)	
102	1-688-400-15	HP BOARD		108	1-769-857-11	WIRE (FLAT TYPE) (5 CORE)	
103	3-229-336-01	SCREW, +BVWH TAPPING		109	A-4732-924-A	KEY BOARD, COMPLETE	
104	4-245-189-01	REFLECTOR, REMOTE CONTROL		110	1-773-182-11	WIRE (FLAT TYPE) (23 CORE)	
105	A-4732-992-A	PANEL BOARD, COMPLETE	(JN20/JN30: AEP, UK)	111	4-245-194-01	SHEET, FL	
105	A-4747-737-A	PANEL BOARD, COMPLETE (JN30: CIS)		112	4-245-264-01	GUIDE (I BASS)	
106	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

7-4. KEY SECTION



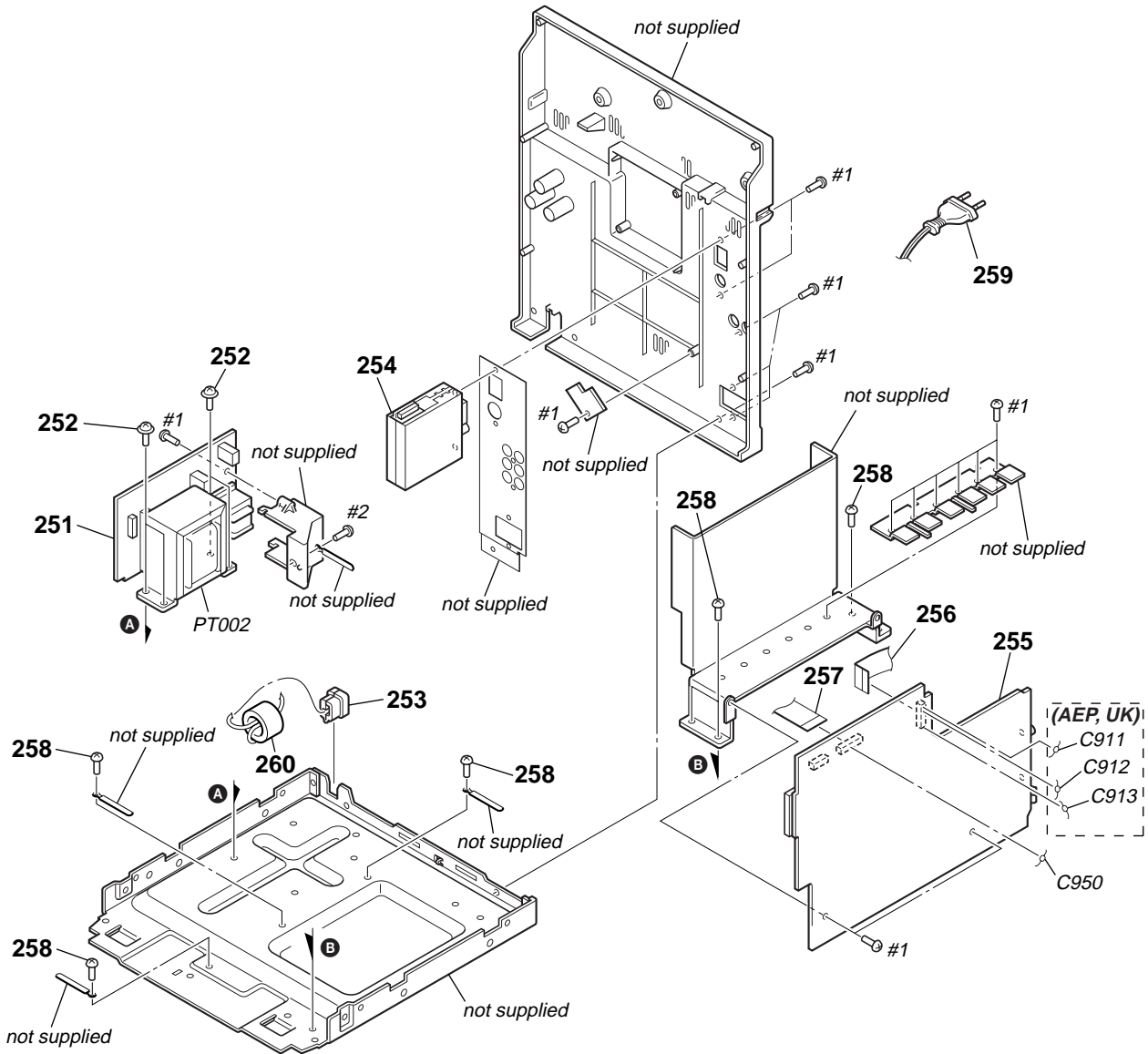
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-245-193-01	RING (BASS)		155	4-245-172-21	KEY (FUN) (TAPE A/B. TUNER BAND. VIDEO/AUX. CD. ►. ■)	
152	4-254-978-11	WINDOW, DISPLAY (JN30: AEP, UK)		158	X-4956-404-1	KEY ASSY (POWER)	
152	4-254-978-21	WINDOW, DISPLAY (JN20)		159	X-4956-411-1	KEY ASSY (MP3) (◀◀. . ▶▶. SYNC DUB. ● REC/REC MUTING. DISPLAY. ▼ PTY. ▲. i-BASS)	
152	4-254-978-41	WINDOW, DISPLAY (JN30: CIS)					
153	4-233-980-01	RUBBER FOOT					
154	4-245-171-11	KEY (CD) (DISC CHANGE. 1. 2. 3. ▲)					

7-5. FRONT CABINET SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	4-245-198-01	WINDOW (2), CASSETTE		207	4-254-979-31	CABINET, FRONT (JN30: CIS)	
202	4-245-160-21	BOX (2), CASSETTE		208	4-231-836-01	SPRING (HEART CAM-A)	
203	4-245-196-01	SPRING (BOX CASS R), TORSION		209	4-231-841-01	SPRING (HEART CAM-B)	
204	4-245-197-01	WINDOW (1), CASSETTE		210	4-224-104-41	DAMPER	
205	4-245-159-11	BOX (1), CASSETTE		211	4-231-824-01	CAM (A), HEART	
206	4-245-195-01	SPRING (BOX CASS L), TORSION		212	4-231-825-01	CAM (B), HEART	
207	4-254-979-11	CABINET, FRONT (JN20/JN30: AEP, UK)					

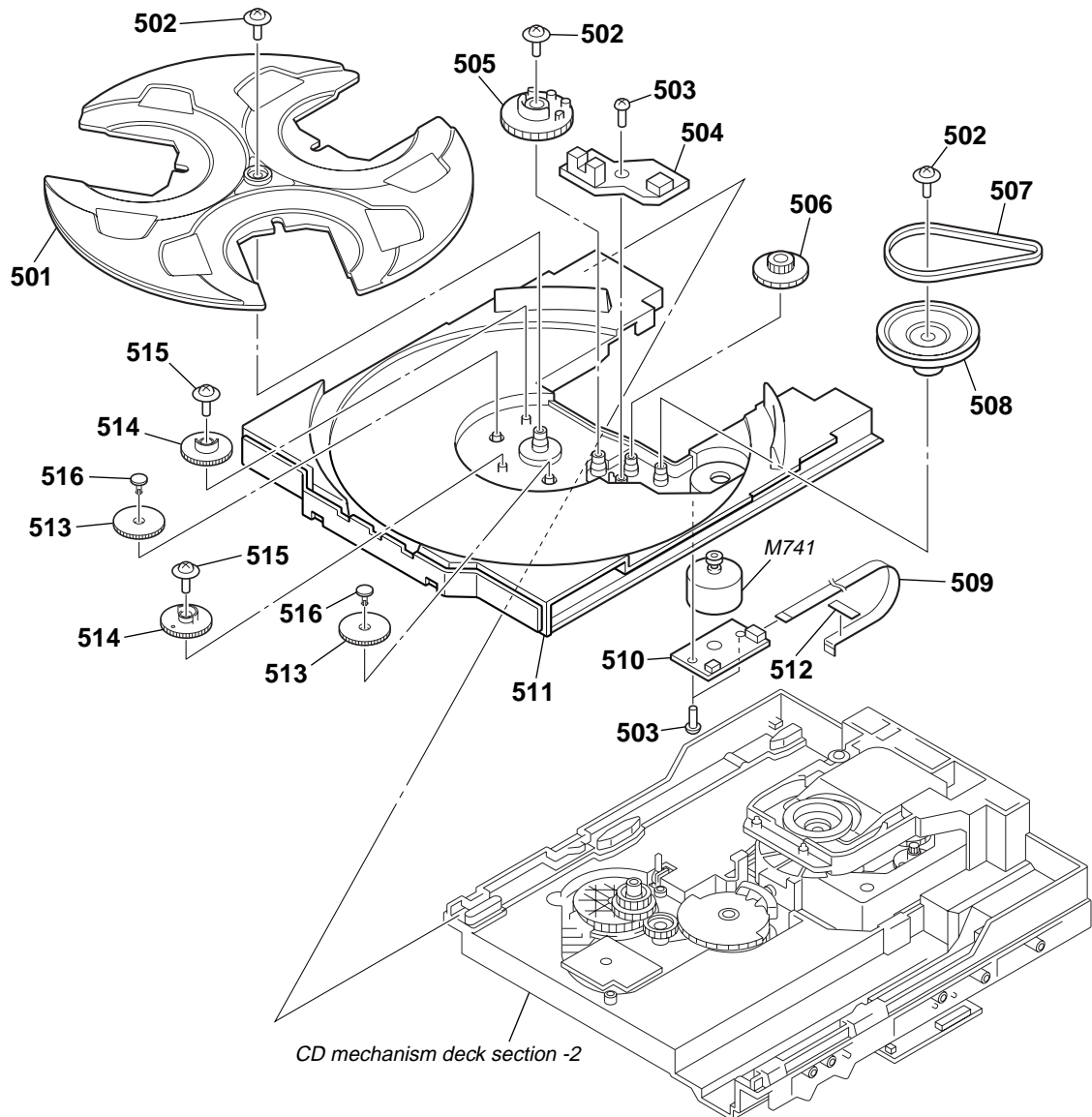
7-6. CHASSIS SECTION



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

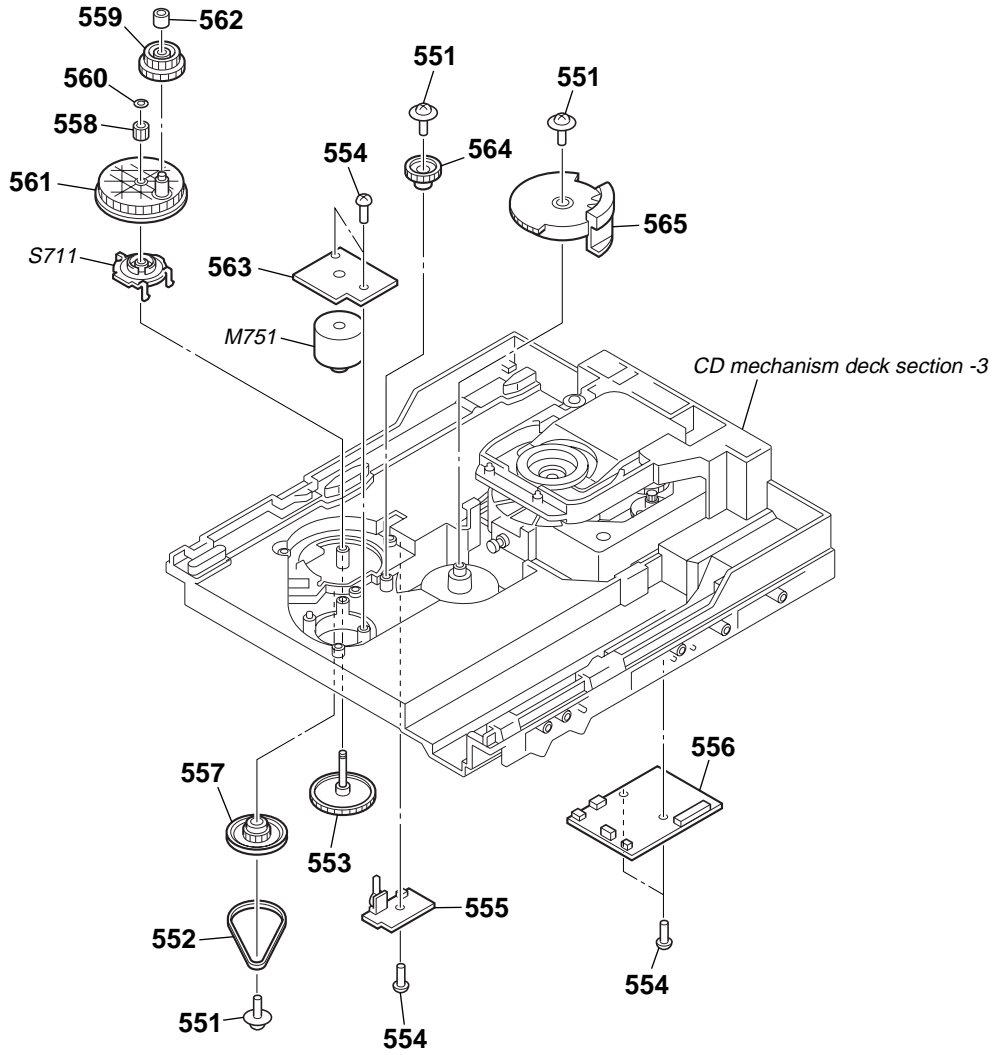
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	1-688-399-15	PT BOARD		Δ 259	1-757-140-11	CORD, POWER (JN20/JN30: AEP, CIS)	
252	4-900-386-02	SCREW		Δ 259	1-775-787-62	CORD, POWER (JN30: UK)	
253	3-703-244-00	BUSHING (2104), CORD		260	1-400-285-11	F-BEAD, E2515MRT	
254	1-693-616-11	TUNER PACK (FM/AM) (JN20/JN30: AEP, UK)		C911	1-162-282-31	CERAMIC 100PF 10% 50V	(JN20/JN30: AEP, UK)
254	1-693-654-11	TUNER PACK (FM/AM) (JN30: CIS)		C912	1-162-282-31	CERAMIC 100PF 10% 50V	(JN20/JN30: AEP, UK)
255	A-4747-735-A	MAIN BOARD, COMPLETE (JN30: CIS)		C913	1-128-821-11	CERAMIC 1000PF 5% 50V	(JN20/JN30: AEP, UK)
255	A-4752-856-A	MAIN BOARD, COMPLETE (JN30: AEP, UK)		C950	1-128-815-11	CERAMIC 330PF 5% 50V	
255	A-4752-861-A	MAIN BOARD, COMPLETE (JN20)		Δ PT002	1-439-925-11	TRANSFORMER, POWER (JN30)	
256	1-769-943-11	WIRE (FLAT TYPE) (11 CORE) (JN30: CIS)		Δ PT002	1-439-966-11	TRANSFORMER, POWER (JN20)	
256	1-773-007-11	WIRE (FLAT TYPE) (15 CORE) (JN20/JN30: AEP, UK)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
257	1-827-222-11	WIRE (FLAT TYPE) (19 CORE)		#2	7-685-872-09	SCREW +BVTT 3X8 (S)	
258	3-970-608-11	SUMITITE (B3), +BV					

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



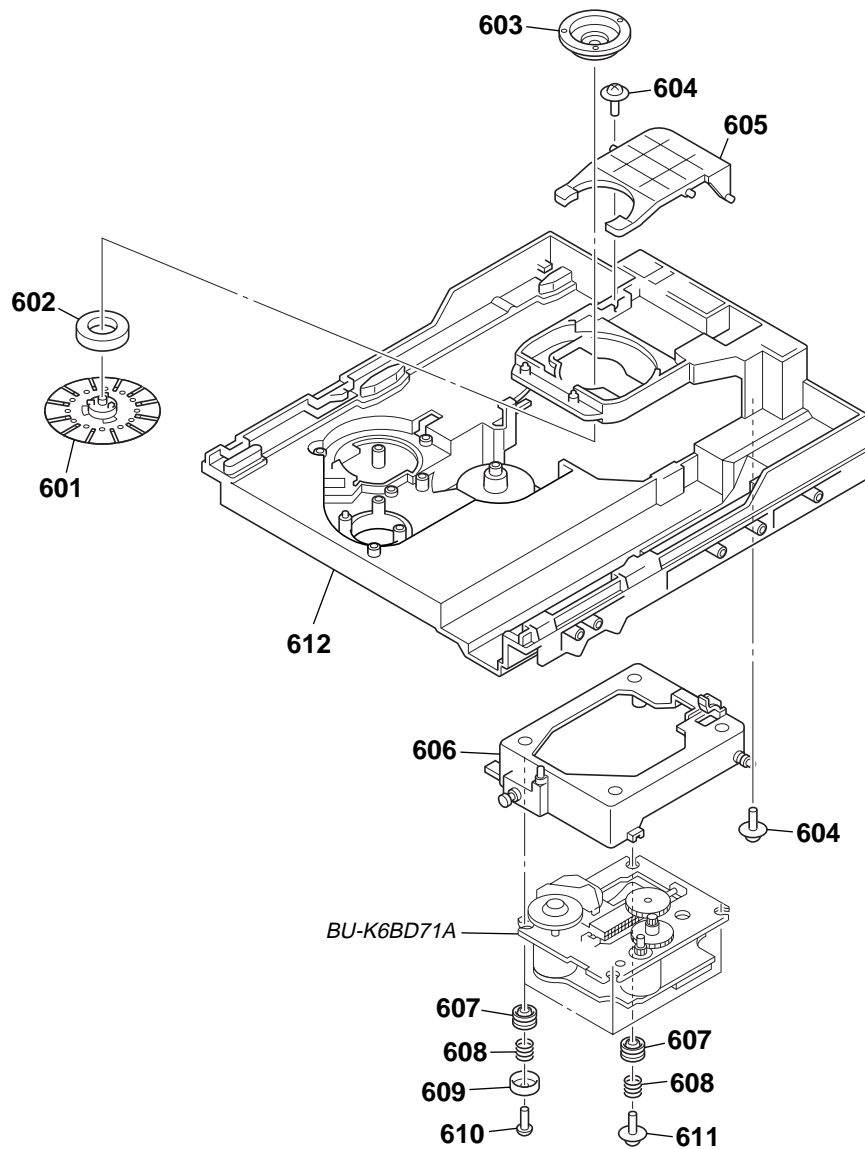
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501	4-243-815-01	TABLE (LOADING)		510	1-687-134-12	MOTOR (TB) BOARD	
502	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		511	4-243-816-01	TRAY	
503	4-218-253-21	SCREW (M2.6), +BTTP		512	3-231-598-01	SHEET (BA)	
504	1-687-132-12	SENSOR BOARD		513	4-245-570-01	GEAR (JOINT)	
505	4-243-819-01	GEAR (GENEVA)		514	4-245-571-02	GEAR (STOPPER)	
506	4-243-820-01	GEAR (TABLE)		515	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
507	4-243-823-01	BELT (TABLE)		516	4-245-572-01	BUSHING (GEAR)	
508	4-243-821-01	PULLEY (TABLE)		M741	A-4723-963-A	MOTOR ASSY, TABLE	
509	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)					

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



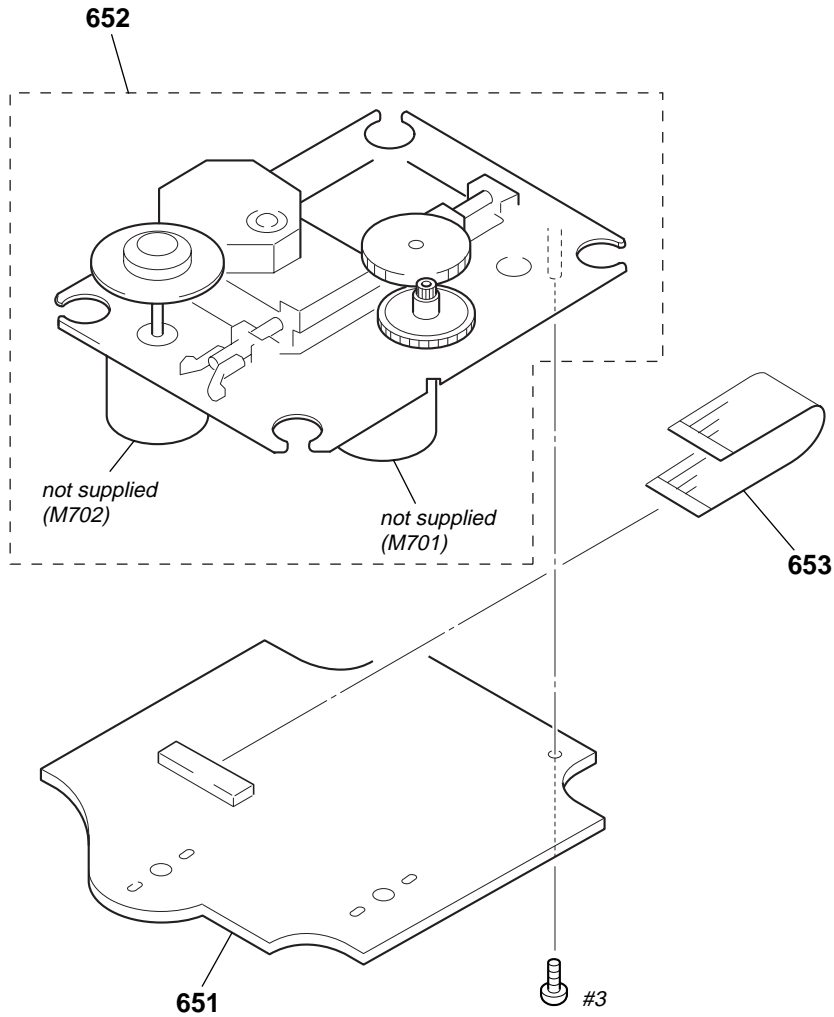
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
551	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		560	3-016-533-11	WASHER (FR), STOPPER	
552	4-244-034-01	BELT (LOADING)		561	4-244-108-01	GEAR, SWING	
553	4-224-613-01	GEAR (SHAFT)		562	4-224-608-01	COLLAR, SWING	
554	4-218-253-31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

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



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

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



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
651	A-4732-699-A	BD BOARD, COMPLETE		653	1-792-024-11	WIRE (FLAT TYPE) (16 CORE)	
\triangle 652	A-4735-357-A	BASE ASSY, OP (KSM-213DCP) (including M701 (SLED), M702 (SPINDLE))		#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. . . : μ A. . . uPA. . . : μ PA. . .
uPB. . . : μ PB. . . uPC. . . : μ PC. . .
uPD. . . : μ PD. . .
- **CAPACITORS**
uF: μ F
- **COILS**
uH: μ H

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-4732-699-A	BD BOARD, COMPLETE *****					
		< CAPACITOR >					
C701	1-163-038-00	CERAMIC CHIP	0.1uF		25V		
C702	1-126-392-11	ELECT CHIP	100uF	20%	6.3V		
C703	1-163-038-00	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	1-163-038-00	CERAMIC CHIP	0.1uF		25V		
C707	1-126-392-11	ELECT CHIP	100uF	20%	6.3V		
C708	1-163-038-00	CERAMIC CHIP	0.1uF		25V		
C709	1-126-392-11	ELECT CHIP	100uF	20%	6.3V		
C710	1-163-035-00	CERAMIC CHIP	0.047uF		50V		
C711	1-163-038-00	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	1-163-038-00	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	1-164-346-11	CERAMIC CHIP	1uF		16V		
C719	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V		
C720	1-162-953-11	CERAMIC CHIP	100PF	5%	50V		
C721	1-163-038-00	CERAMIC CHIP	0.1uF		25V		
C722	1-163-038-00	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		
C734	1-162-917-11	CERAMIC CHIP	15PF	5%	50V		
C735	1-162-918-11	CERAMIC CHIP	18PF	5%	50V		
C739	1-127-888-11	CERAMIC	0.1uF	10%	50V		
C740	1-127-888-11	CERAMIC	0.1uF	10%	50V		
C741	1-163-038-00	CERAMIC CHIP	0.1uF		25V		
C742	1-163-038-00	CERAMIC CHIP	0.1uF		25V		
C743	1-163-035-00	CERAMIC CHIP	0.047uF		50V		
C744	1-109-982-11	CERAMIC CHIP	1uF	10%	10V		
C746	1-163-038-00	CERAMIC CHIP	0.1uF		25V		
C747	1-163-038-00	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		
C771	1-162-953-11	CERAMIC CHIP	100PF	5%	50V		
C805	1-126-392-11	ELECT CHIP	100uF	20%	6.3V		
C806	1-163-038-00	CERAMIC CHIP	0.1uF		25V		
C807	1-126-392-11	ELECT CHIP	100uF	20%	6.3V		
C810	1-163-038-00	CERAMIC CHIP	0.1uF		25V		
C811	1-163-038-00	CERAMIC CHIP	0.1uF		25V		
C812	1-164-346-11	CERAMIC CHIP	1uF		16V		
C813	1-163-038-00	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	1-163-038-00	CERAMIC CHIP	0.1uF		25V		
C817	1-163-038-00	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	1-163-038-00	CERAMIC CHIP	0.1uF		25V		
C837	1-163-038-00	CERAMIC CHIP	0.1uF		25V		
C843	1-163-038-00	CERAMIC CHIP	0.1uF		25V		
C844	1-163-038-00	CERAMIC CHIP	0.1uF		25V		
C856	1-164-346-11	CERAMIC CHIP	1uF		16V		
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		
C861	1-164-156-11	CERAMIC CHIP	0.1uF		25V		
C862	1-164-156-11	CERAMIC CHIP	0.1uF		25V		
		< 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	BEAD, FERRITE (CHIP) (2012)					
FB707	1-550-907-21	BEAD, FERRITE (CHIP) (2012)					
FB708	1-550-907-21	BEAD, FERRITE (CHIP) (2012)					
FB801	1-550-907-21	BEAD, FERRITE (CHIP) (2012)					

CX-JN20/JN30

BD	CD KEY	DRIVER
-----------	---------------	---------------

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
FB802	1-550-907-21	BEAD, FERRITE (CHIP) (2012)		R803	1-216-809-11	METAL CHIP	100 5% 1/10W
FB803	1-550-907-21	BEAD, FERRITE (CHIP) (2012)		R804	1-216-809-11	METAL CHIP	100 5% 1/10W
FB804	1-550-907-21	BEAD, FERRITE (CHIP) (2012)		R805	1-216-809-11	METAL CHIP	100 5% 1/10W
FB805	1-550-907-21	BEAD, FERRITE (CHIP) (2012)		R806	1-216-025-11	RES-CHIP	100 5% 1/10W
FB806	1-550-907-21	BEAD, FERRITE (CHIP) (2012)		R807	1-216-025-11	RES-CHIP	100 5% 1/10W
FB807	1-550-907-21	BEAD, FERRITE (CHIP) (2012)		R817	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
		< IC >		R818	1-216-811-11	METAL CHIP	150 5% 1/10W
IC721	6-701-796-01	IC LC78646E-E		R819	1-216-821-11	METAL CHIP	1K 5% 1/10W
IC722	6-704-220-01	IC BA5836FP		R820	1-216-821-11	METAL CHIP	1K 5% 1/10W
IC801	6-704-008-01	IC LC78684E-E		R823	1-216-809-11	METAL CHIP	100 5% 1/10W
IC802	6-704-009-01	IC LC32V4265CT-25-MPB-E		R824	1-216-809-11	METAL CHIP	100 5% 1/10W
IC803	6-704-007-01	IC MM1571JNLE		R825	1-216-809-11	METAL CHIP	100 5% 1/10W
		< TRANSISTOR >		R826	1-216-809-11	METAL CHIP	100 5% 1/10W
Q701	8-729-054-57	TRANSISTOR	KTN2907AS-RTK	R827	1-216-809-11	METAL CHIP	100 5% 1/10W
		< RESISTOR >		R828	1-216-809-11	METAL CHIP	100 5% 1/10W
R701	1-216-841-11	METAL CHIP	47K 5% 1/10W	R829	1-216-809-11	METAL CHIP	100 5% 1/10W
R702	1-216-835-11	METAL CHIP	15K 5% 1/10W	R832	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R703	1-216-835-11	METAL CHIP	15K 5% 1/10W	R833	1-216-809-11	METAL CHIP	100 5% 1/10W
R704	1-216-835-11	METAL CHIP	15K 5% 1/10W	R834	1-216-809-11	METAL CHIP	100 5% 1/10W
R705	1-216-835-11	METAL CHIP	15K 5% 1/10W	R860	1-216-809-11	METAL CHIP	100 5% 1/10W
		< SWITCH >		S701	1-771-853-11	SWITCH, DETECTION (LIMIT IN)	
R706	1-216-841-11	METAL CHIP	47K 5% 1/10W			< VIBRATOR >	
R707	1-216-797-11	METAL CHIP	10 5% 1/10W	X701	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)	
R708	1-216-833-11	METAL CHIP	10K 5% 1/10W	*****			
R709	1-216-838-11	METAL CHIP	27K 5% 1/10W		1-861-661-11	CD KEY BOARD	
R711	1-216-815-11	METAL CHIP	330 5% 1/10W			*****	
		< CONNECTOR >		CN302	1-784-766-11	CONNECTOR, FFC 5P	
R713	1-216-821-11	METAL CHIP	1K 5% 1/10W			< RESISTOR >	
R714	1-216-809-11	METAL CHIP	100 5% 1/10W	R326	1-216-822-11	METAL CHIP	1.2K 5% 1/10W
R715	1-216-809-11	METAL CHIP	100 5% 1/10W	R327	1-216-824-11	METAL CHIP	1.8K 5% 1/10W
R716	1-216-809-11	METAL CHIP	100 5% 1/10W	R328	1-216-824-11	METAL CHIP	1.8K 5% 1/10W
R717	1-216-809-11	METAL CHIP	100 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 ▲)	
R718	1-216-809-11	METAL CHIP	100 5% 1/10W	S320	1-762-875-21	SWITCH, KEYBOARD (DISC DIRECT PLAY 3)	
R719	1-216-809-11	METAL CHIP	100 5% 1/10W	S321	1-762-875-21	SWITCH, KEYBOARD (DISC DIRECT PLAY 2)	
R720	1-216-809-11	METAL CHIP	100 5% 1/10W	S322	1-762-875-21	SWITCH, KEYBOARD (DISC DIRECT PLAY 1)	
R721	1-216-809-11	METAL CHIP	100 5% 1/10W	S323	1-762-875-21	SWITCH, KEYBOARD (DISC CHANGE)	
R722	1-216-821-11	METAL CHIP	1K 5% 1/10W	*****			
R725	1-216-819-11	METAL CHIP	680 5% 1/10W		1-687-135-12	DRIVER BOARD	
R726	1-216-819-11	METAL CHIP	680 5% 1/10W			*****	
R727	1-216-809-11	METAL CHIP	100 5% 1/10W			< CAPACITOR >	
R728	1-216-841-11	METAL CHIP	47K 5% 1/10W	C715	1-126-933-11	ELECT	100uF 20% 16V
R729	1-216-834-11	METAL CHIP	12K 5% 1/10W	C731	1-126-964-11	ELECT	10uF 20% 50V
R730	1-216-822-11	METAL CHIP	1.2K 5% 1/10W	C735	1-164-159-21	CERAMIC	0.1uF 50V
R731	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	C736	1-164-159-21	CERAMIC	0.1uF 50V
R732	1-216-864-11	SHORT CHIP	0	C737	1-164-159-21	CERAMIC	0.1uF 50V
R738	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	C741	1-162-306-11	CERAMIC	0.01uF 20% 16V
R739	1-216-864-11	SHORT CHIP	0				
R740	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W				
R741	1-216-864-11	SHORT CHIP	0				
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				

DRIVER

HP

KEY

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C751	1-162-306-11	CERAMIC	0.01uF 20% 16V				
C752	1-164-159-21	CERAMIC	0.1uF 50V		A-4732-924-A	KEY BOARD, COMPLETE *****	
< CONNECTOR >				< CAPACITOR >			
CN701	1-785-338-11	PIN, CONNECTOR (LIGHT ANGLE) 12P		C801	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
CN702	1-784-766-11	CONNECTOR, FFC 5P		C802	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
* CN703	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P		C803	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
CN704	1-785-328-11	PIN, CONNECTOR (LIGHT ANGLE) 2P		C804	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
< DIODE >				C805	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
D701	8-719-921-42	DIODE MTZJ-5.1A		C806	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
D711	8-719-109-69	DIODE RD3.6ESB2		C807	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
< IC >				C808	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
IC701	8-759-598-69	IC BA6956AN		< CONNECTOR >			
IC712	8-759-598-69	IC BA6956AN		CN301	1-784-766-11	CONNECTOR, FFC 5P	
< TRANSISTOR >				CN303	1-784-784-11	CONNECTOR, FFC 23P	
Q731	8-729-029-66	TRANSISTOR DTC114ESA		< LED >			
< RESISTOR >				LED201	8-719-053-43	LED SLR-325VCT31 (i-BASS)	
R701	1-249-413-11	CARBON 470 5% 1/4W		LED901	6-500-641-01	LED SLI-325URC (Ⓢ) STANDBY/ON	
R702	1-247-807-31	CARBON 100 5% 1/4W		< RESISTOR >			
R711	1-249-417-11	CARBON 1K 5% 1/4W		R231	1-216-198-00	RES-CHIP 1K 5% 1/8W	
R712	1-249-425-11	CARBON 4.7K 5% 1/4W		R301	1-216-864-11	SHORT CHIP 0	
R713	1-249-433-11	CARBON 22K 5% 1/4W		R302	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R721	1-249-425-11	CARBON 4.7K 5% 1/4W		R303	1-216-820-11	METAL CHIP 820 5% 1/10W	
R722	1-249-425-11	CARBON 4.7K 5% 1/4W		R304	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R723	1-249-425-11	CARBON 4.7K 5% 1/4W		R305	1-216-822-11	METAL CHIP 1.2K 5% 1/10W	
R731	1-247-807-31	CARBON 100 5% 1/4W		R306	1-216-822-11	METAL CHIP 1.2K 5% 1/10W	
R732	1-249-429-11	CARBON 10K 5% 1/4W		R311	1-216-864-11	SHORT CHIP 0	
R733	1-249-417-11	CARBON 1K 5% 1/4W		R312	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R734	1-249-430-11	CARBON 12K 5% 1/4W		R313	1-216-820-11	METAL CHIP 820 5% 1/10W	
R735	1-247-807-31	CARBON 100 5% 1/4W		R314	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R751	1-249-425-11	CARBON 4.7K 5% 1/4W		R315	1-216-822-11	METAL CHIP 1.2K 5% 1/10W	
*****				R316	1-216-822-11	METAL CHIP 1.2K 5% 1/10W	
	1-688-400-15	HP BOARD *****		R317	1-216-824-11	METAL CHIP 1.8K 5% 1/10W	
< CAPACITOR >				R318	1-216-824-11	METAL CHIP 1.8K 5% 1/10W	
C250	1-125-891-11	CERAMIC CHIP 0.47uF 10% 10V		R321	1-216-864-11	SHORT CHIP 0	
< JACK >				R322	1-216-821-11	METAL CHIP 1K 5% 1/10W	
J221	1-785-448-21	JACK (PHONES)		R323	1-216-820-11	METAL CHIP 820 5% 1/10W	
< RESISTOR >				R324	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R221	1-216-206-00	RES-CHIP 2.2K 5% 1/8W		R325	1-216-822-11	METAL CHIP 1.2K 5% 1/10W	
R222	1-216-206-00	RES-CHIP 2.2K 5% 1/8W		R801	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R223	1-260-089-11	CARBON 150 5% 1/2W		R802	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R224	1-260-089-11	CARBON 150 5% 1/2W		R803	1-216-797-11	METAL CHIP 10 5% 1/10W	
R225	1-260-089-11	CARBON 150 5% 1/2W		R804	1-216-797-11	METAL CHIP 10 5% 1/10W	
R226	1-260-089-11	CARBON 150 5% 1/2W		R805	1-216-833-11	METAL CHIP 10K 5% 1/10W	
< WIRE HOLDER >				R806	1-216-833-11	METAL CHIP 10K 5% 1/10W	
WH230	1-816-818-11	HOLDER, WIRE 5P		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	

CX-JN20/JN30

KEY	MAIN
------------	-------------

Ref. No.	Part No.	Description	Remark
R816	1-216-797-11	METAL CHIP 10 5% 1/10W	
< SWITCH/ROTARY ENCODER >			
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 DOWN ►►)	
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	SWITCH, ROTARY (ENCODER) (VOLUME)	
S802	1-786-396-11	SWITCH, ROTARY (ENCODER) (BASS)	
S803	1-477-824-11	ENCODER, ROTARY (TREBLE)	
S804	1-786-418-11	SWITCH, ROTARY (ENCODER) (MULTI JOG)	

A-4747-735-A MAIN BOARD, COMPLETE (JN30: CIS)			
A-4752-856-A MAIN BOARD, COMPLETE (JN30: AEP, UK)			
A-4752-861-A MAIN BOARD, COMPLETE (JN20)			

< CAPACITOR/SHORT >			
C003	1-126-974-21	ELECT 3300uF 20% 50V	(JN30)
C004	1-126-974-21	ELECT 3300uF 20% 50V	(JN30)
C005	1-126-955-21	ELECT 4700uF 20% 35V	
C006	1-126-955-21	ELECT 4700uF 20% 35V	
C007	1-126-944-11	ELECT 3300uF 20% 25V	
C008	1-126-942-61	ELECT 1000uF 20% 25V	
C011	1-165-621-11	CERAMIC CHIP 0.1uF 50V	(JN30)
C012	1-165-621-11	CERAMIC CHIP 0.1uF 50V	(JN30)
C013	1-165-621-11	CERAMIC CHIP 0.1uF 50V	(JN30)
C014	1-165-621-11	CERAMIC CHIP 0.1uF 50V	(JN30)
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% 35V	
C029	1-126-947-11	ELECT 47uF 20% 35V	
C030	1-162-968-11	CERAMIC CHIP 0.0047uF 10% 50V	
C031	1-126-947-11	ELECT 47uF 20% 35V	

Ref. No.	Part No.	Description	Remark
C032	1-104-663-11	ELECT 33uF 20% 25V	
C033	1-165-621-11	CERAMIC CHIP 0.1uF 50V	(JN30)
C034	1-165-621-11	CERAMIC CHIP 0.1uF 50V	(JN30)
C035	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C041	1-126-966-11	ELECT 33uF 20% 50V	(JN30)
C041	1-126-948-11	ELECT 100uF 20% 35V	(JN20)
C042	1-126-965-11	ELECT 22uF 20% 50V	(JN30)
C042	1-126-948-11	ELECT 100uF 20% 35V	(JN20)
C043	1-126-966-11	ELECT 33uF 20% 50V	(JN30)
C043	1-126-948-11	ELECT 100uF 20% 35V	(JN20)
C044	1-126-965-11	ELECT 22uF 20% 50V	(JN30)
C044	1-126-948-11	ELECT 100uF 20% 35V	(JN20)
C045	1-126-968-11	ELECT 100uF 20% 50V	
C046	1-126-968-11	ELECT 100uF 20% 50V	
C047	1-104-658-11	ELECT 100uF 20% 10V	
C061	1-126-947-11	ELECT 47uF 20% 35V	
C062	1-126-960-11	ELECT 1uF 20% 50V	
C063	1-126-960-11	ELECT 1uF 20% 50V	
C097	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C103	1-163-275-11	CERAMIC CHIP 0.001uF 5% 50V	(JN30)
C103	1-163-145-00	CERAMIC CHIP 0.0015uF 5% 50V	(JN20)
C104	1-163-275-11	CERAMIC CHIP 0.001uF 5% 50V	(JN30)
C104	1-163-145-00	CERAMIC CHIP 0.0015uF 5% 50V	(JN20)
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	
C111	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C112	1-162-927-11	CERAMIC CHIP 100PF 5% 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	1-100-152-11	CERAMIC CHIP 100PF 5% 100V	
C118	1-100-152-11	CERAMIC CHIP 100PF 5% 100V	
C119	1-100-152-11	CERAMIC CHIP 100PF 5% 100V	(JN30)
C119	1-216-864-11	SHORT CHIP 0 (JN20)	
C120	1-100-152-11	CERAMIC CHIP 100PF 5% 100V	(JN30)
C120	1-216-864-11	SHORT CHIP 0 (JN20)	
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	1-100-152-11	CERAMIC CHIP 100PF 5% 100V	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C128	1-100-152-11	CERAMIC CHIP	100PF	5%	100V	C605	1-130-481-00	MYLAR	0.0068uF	5%	50V
C129	1-100-152-11	CERAMIC CHIP	100PF	5%	100V	C606	1-130-481-00	MYLAR	0.0068uF	5%	50V
C130	1-100-152-11	CERAMIC CHIP	100PF	5%	100V	C607	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C131	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C608	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C132	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C609	1-126-960-11	ELECT	1uF	20%	50V
C133	1-216-864-11	SHORT CHIP	0			C610	1-126-960-11	ELECT	1uF	20%	50V
C134	1-216-864-11	SHORT CHIP	0			C611	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C135	1-216-864-11	SHORT CHIP	0			C612	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C136	1-216-864-11	SHORT CHIP	0			C613	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C181	1-126-960-11	ELECT	1uF	20%	50V (JN20/JN30: CIS)	C614	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C181	1-126-961-11	ELECT	2.2uF	20%	50V (JN30: AEP, UK)	C621	1-164-218-11	CERAMIC CHIP	180PF	5%	50V
C182	1-126-960-11	ELECT	1uF	20%	50V (JN20/JN30: CIS)	C622	1-164-218-11	CERAMIC CHIP	180PF	5%	50V
C182	1-126-961-11	ELECT	2.2uF	20%	50V (JN30: AEP, UK)	C623	1-164-479-11	CERAMIC CHIP	0.0056uF	10%	50V
C201	1-165-621-11	CERAMIC CHIP	0.1uF		50V	C624	1-164-479-11	CERAMIC CHIP	0.0056uF	10%	50V
C202	1-165-621-11	CERAMIC CHIP	0.1uF		50V	C625	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V
C203	1-165-621-11	CERAMIC CHIP	0.1uF		50V	C626	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V
C204	1-165-621-11	CERAMIC CHIP	0.1uF		50V	C641	1-126-957-11	ELECT	0.22uF	20%	50V
C205	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C642	1-126-957-11	ELECT	0.22uF	20%	50V
C206	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C643	1-126-957-11	ELECT	0.22uF	20%	50V
C207	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C644	1-126-957-11	ELECT	0.22uF	20%	50V
C208	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C651	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C209	1-216-864-11	SHORT CHIP	0			C652	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C210	1-216-864-11	SHORT CHIP	0			C653	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C230	1-128-582-11	ELECT	10uF	20%	100V (JN30)	C654	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C231	1-128-582-11	ELECT	10uF	20%	100V (JN30)	C655	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C232	1-164-156-11	CERAMIC CHIP	0.1uF		25V (JN30)	C661	1-126-923-11	ELECT	220uF	20%	10V
C241	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	C662	1-126-947-11	ELECT	47uF	20%	35V
C281	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C663	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C282	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C664	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C301	1-164-647-11	CERAMIC CHIP	0.0012uF	10%	50V	C668	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C302	1-164-647-11	CERAMIC CHIP	0.0012uF	10%	50V	C669	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C303	1-164-647-11	CERAMIC CHIP	0.0012uF	10%	50V	C670	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C304	1-164-647-11	CERAMIC CHIP	0.0012uF	10%	50V	C671	1-126-959-11	ELECT	0.47uF	20%	50V
C305	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C672	1-126-959-11	ELECT	0.47uF	20%	50V
C306	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C673	1-164-392-11	CERAMIC CHIP	390PF	5%	50V (JN20/JN30: CIS)
C311	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C673	1-164-739-11	CERAMIC CHIP	560PF	5%	50V (JN30: AEP, UK)
C312	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C674	1-164-392-11	CERAMIC CHIP	390PF	5%	50V (JN20/JN30: CIS)
C313	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C674	1-164-739-11	CERAMIC CHIP	560PF	5%	50V (JN30: AEP, UK)
C314	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C675	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C315	1-130-487-00	MYLAR	0.022uF	5%	50V	C676	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C316	1-130-485-00	MYLAR	0.015uF	5%	50V	C677	1-124-252-00	ELECT	0.33uF	20%	50V
C317	1-130-485-00	MYLAR	0.015uF	5%	50V	C678	1-124-252-00	ELECT	0.33uF	20%	50V
C318	1-130-479-00	MYLAR	0.0047uF	5%	50V	C679	1-126-923-11	ELECT	220uF	20%	10V
C319	1-126-964-11	ELECT	10uF	20%	50V	C680	1-137-190-11	FILM	0.22uF	5%	50V
C320	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C681	1-137-190-11	FILM	0.22uF	5%	50V
C321	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C682	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C322	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C683	1-126-941-11	ELECT	470uF	20%	25V
C601	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C684	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C602	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C685	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C603	1-104-658-11	ELECT	100uF	20%	10V	C686	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C604	1-104-658-11	ELECT	100uF	20%	10V	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

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C695	1-126-925-11	ELECT	470uF 20% 10V	D107	6-500-335-01	DIODE MC2838	
C698	1-162-974-11	CERAMIC CHIP	0.01uF 50V	D108	6-500-335-01	DIODE MC2838	
C699	1-162-974-11	CERAMIC CHIP	0.01uF 50V	D109	8-719-046-74	DIODE AU-01Z-V1	
C730	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	D110	8-719-046-74	DIODE AU-01Z-V1	
C731	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	D111	6-500-335-01	DIODE MC2838	
C732	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	D231	8-719-988-61	DIODE 1SS355TE-17 (JN30)	
C733	1-164-156-11	CERAMIC CHIP	0.1uF 25V	D232	8-719-977-28	DIODE DTZ10B (JN30)	
C734	1-164-156-11	CERAMIC CHIP	0.1uF 25V	D235	8-719-059-21	DIODE RK46LF-T2 (JN30)	
C764	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	D236	8-719-059-21	DIODE RK46LF-T2 (JN30)	
C765	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	D239	8-719-069-55	DIODE UDZSTE-175.6B (JN30)	
C766	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	D240	8-719-069-55	DIODE UDZSTE-175.6B (JN30)	
C767	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	D241	8-719-988-61	DIODE 1SS355TE-17 (JN30)	
C801	1-126-964-11	ELECT	10uF 20% 50V	D242	1-216-295-00	SHORT CHIP 0 (JN30)	
C802	1-164-156-11	CERAMIC CHIP	0.1uF 25V (JN20/JN30: AEP, UK)	D243	6-500-335-01	DIODE MC2838 (JN30)	
C910	1-162-974-11	CERAMIC CHIP	0.01uF 50V (JN20/JN30: AEP, UK)	D244	6-500-334-01	DIODE MC2836 (JN30)	
< CONNECTOR >				D281	6-500-335-01	DIODE MC2838	
* CN301	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P		D291	6-500-334-01	DIODE MC2836	
* CN302	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P		D292	6-500-335-01	DIODE MC2838	
CN601	1-793-766-11	CONNECTOR, BOARD TO BOARD 30P		D301	6-500-334-01	DIODE MC2836	
CN691	1-784-780-11	CONNECTOR, FFC 19P		D661	8-719-083-60	DIODE UDZSTE-174.7B	
CN694	1-568-830-11	CONNECTOR, FFC 11P		D662	8-719-083-60	DIODE UDZSTE-174.7B	
CN801	1-568-830-11	CONNECTOR, FFC 11P (JN30: CIS)		D663	8-719-988-61	DIODE 1SS355TE-17	
CN802	1-784-776-11	CONNECTOR, FFC 15P (JN20/JN30: AEP, UK)		D671	8-719-988-61	DIODE 1SS355TE-17	
< DIODE/SHORT >				D691	6-500-522-21	DIODE 10EDB40-TB3	
D009	8-719-072-05	DIODE RBV-602LF-A (JN30)		D692	6-500-522-21	DIODE 10EDB40-TB3	
D015	6-500-802-01	DIODE 1N5402-E7		D693	6-500-522-21	DIODE 10EDB40-TB3	
D016	6-500-802-01	DIODE 1N5402-E7		D694	6-500-522-21	DIODE 10EDB40-TB3	
D017	6-500-802-01	DIODE 1N5402-E7		D695	8-719-988-61	DIODE 1SS355TE-17	
D018	6-500-802-01	DIODE 1N5402-E7		D697	6-500-522-21	DIODE 10EDB40-TB3	
D019	8-719-048-61	DIODE EGP20DL-6349		D801	8-719-069-54	DIODE UDZSTE-175.1B (JN20/JN30: AEP, UK)	
D020	8-719-048-61	DIODE EGP20DL-6349		< EARTH TERMINAL >			
D021	8-719-048-61	DIODE EGP20DL-6349 (JN30)		* EP001	1-537-738-21	TERMINAL, EARTH	
D022	8-719-048-61	DIODE EGP20DL-6349 (JN30)		* EP099	1-537-738-21	TERMINAL, EARTH	
D023	8-719-085-36	DIODE 11EQS04-TB5		< SHORT/FERRITE BEAD >			
D031	8-719-988-61	DIODE 1SS355TE-17		FB601	1-216-295-00	SHORT CHIP 0	
D032	8-719-988-61	DIODE 1SS355TE-17		FB602	1-216-295-00	SHORT CHIP 0	
D033	8-719-988-61	DIODE 1SS355TE-17		FB693	1-410-396-71	FERRITE BEAD 0.45uH	
D041	6-500-522-21	DIODE 10EDB40-TB3		< IC >			
D042	6-500-522-21	DIODE 10EDB40-TB3		IC001	8-759-701-59	IC NJM78M09FA	
D043	6-500-522-21	DIODE 10EDB40-TB3		IC002	8-759-701-59	IC NJM78M09FA	
D044	6-500-522-21	DIODE 10EDB40-TB3		IC003	6-703-546-01	IC TA7804LS	
D045	8-719-083-87	DIODE UDZSTE-1733B		IC601	6-702-895-01	IC BD3881FV	
D063	6-500-334-01	DIODE MC2836 (JN30)		IC671	6-704-074-01	IC NJM2156M (TE2)	
D064	6-500-335-01	DIODE MC2838 (JN30)		IC672	8-759-396-78	IC BU2092F-E2	
D065	8-719-988-61	DIODE 1SS355TE-17 (JN30)		< TERMINAL/JACK >			
D066	8-719-988-61	DIODE 1SS355TE-17 (JN30)		J203	1-694-635-12	TERMINAL BOARD (4P) (SPEAKER)	
D067	6-500-335-01	DIODE MC2838 (JN30)		J602	1-793-987-11	JACK, PIN 2P (VIDEO/AUX)	
D068	6-500-334-01	DIODE MC2836 (JN30)		< SHORT >			
D069	8-719-988-61	DIODE 1SS355TE-17		JR001	1-216-864-11	SHORT CHIP 0	
D101	6-500-334-01	DIODE MC2836		JR002	1-216-296-11	SHORT CHIP 0	
D103	8-719-988-61	DIODE 1SS355TE-17		JR104	1-216-864-11	SHORT CHIP 0	
D104	8-719-988-61	DIODE 1SS355TE-17		JR201	1-216-864-11	SHORT CHIP 0	
D105	6-500-334-01	DIODE MC2836					
D106	6-500-334-01	DIODE MC2836					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
JR202	1-216-864-11	SHORT CHIP	0	Q112	8-729-823-99	TRANSISTOR	2SC2909-AA
JR203	1-216-864-11	SHORT CHIP	0	Q117	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR204	1-216-864-11	SHORT CHIP	0	Q118	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR601	1-216-864-11	SHORT CHIP	0	Q119	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR602	1-216-864-11	SHORT CHIP	0	Q120	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR603	1-216-864-11	SHORT CHIP	0	Q121	6-550-331-01	TRANSISTOR	2SB1677
JR604	1-216-864-11	SHORT CHIP	0	Q122	6-550-331-01	TRANSISTOR	2SB1677
JR605	1-216-864-11	SHORT CHIP	0	Q123	6-550-332-01	TRANSISTOR	2SD2619
JR606	1-216-864-11	SHORT CHIP	0	Q124	6-550-332-01	TRANSISTOR	2SD2619
JR607	1-216-864-11	SHORT CHIP	0	Q129	6-550-316-01	TRANSISTOR	2SB0792A0LS0
JR608	1-216-864-11	SHORT CHIP	0	Q130	6-550-316-01	TRANSISTOR	2SB0792A0LS0
JR611	1-216-296-11	SHORT CHIP	0	Q181	8-729-052-79	TRANSISTOR	2SD1306NETL
JR612	1-216-864-11	SHORT CHIP	0	Q182	8-729-052-79	TRANSISTOR	2SD1306NETL
JR615	1-216-864-11	SHORT CHIP	0	Q183	8-729-600-22	TRANSISTOR	2SA1235-F
JR616	1-216-864-11	SHORT CHIP	0	Q231	6-550-293-01	FET	2SK2937 (JN30)
JR619	1-216-864-11	SHORT CHIP	0	Q232	6-550-293-01	FET	2SK2937 (JN30)
JR620	1-216-864-11	SHORT CHIP	0	Q233	8-729-600-22	TRANSISTOR	2SA1235-F (JN30)
JR621	1-216-864-11	SHORT CHIP	0	Q234	8-729-120-28	TRANSISTOR	2SC1623-L5L6 (JN30)
JR622	1-216-864-11	SHORT CHIP	0	Q235	8-729-600-22	TRANSISTOR	2SA1235-F (JN30)
JR623	1-216-864-11	SHORT CHIP	0	Q281	6-550-316-01	TRANSISTOR	2SB0792A0LS0
JR625	1-216-296-11	SHORT CHIP	0	Q282	6-550-317-01	TRANSISTOR	2SD0814A0LS0
JR651	1-216-296-11	SHORT CHIP	0	Q291	8-729-027-23	TRANSISTOR	DTA114EKA-T146
JR701	1-216-864-11	SHORT CHIP	0	Q292	6-550-316-01	TRANSISTOR	2SB0792A0LS0
JR801	1-216-864-11	SHORT CHIP	0 (JN30: CIS)	Q301	6-550-290-01	FET	2SJ460
		< RESISTOR/DIODE >		Q302	6-550-290-01	FET	2SJ460
△JW002	1-219-122-91	FUSIBLE	0.33 5%	Q303	8-729-048-99	FET	2SK2541-T
				Q304	8-729-048-99	FET	2SK2541-T
JW690	6-500-522-21	DIODE	10EDB40-TB3	Q305	6-550-290-01	FET	2SJ460
		< COIL >		Q306	6-550-290-01	FET	2SJ460
L201	1-422-009-13	COIL, AIR-CORE		Q307	8-729-048-99	FET	2SK2541-T
L202	1-422-009-13	COIL, AIR-CORE		Q308	8-729-048-99	FET	2SK2541-T
L311	1-424-849-11	COIL, OSCILLATION (BIAS)		Q309	8-729-048-99	FET	2SK2541-T
		< TRANSISTOR >		Q310	8-729-011-92	TRANSISTOR	2SC2001TP-K1K2
Q022	8-729-120-28	TRANSISTOR	2SC1623-L5L6	Q311	8-729-201-53	TRANSISTOR	2SA1015-GR
Q023	8-729-201-53	TRANSISTOR	2SA1015-GR	Q312	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q024	8-729-120-28	TRANSISTOR	2SC1623-L5L6	Q601	8-729-027-23	TRANSISTOR	DTA114EKA-T146
Q041	8-729-201-53	TRANSISTOR	2SA1015-GR	Q671	8-729-045-62	FET	2SK2158-T2B
Q043	8-729-201-53	TRANSISTOR	2SA1015-GR	Q672	8-729-045-62	FET	2SK2158-T2B
Q045	8-729-120-28	TRANSISTOR	2SC1623-L5L6	Q673	8-729-045-62	FET	2SK2158-T2B
Q046	8-729-120-28	TRANSISTOR	2SC1623-L5L6	Q674	8-729-045-62	FET	2SK2158-T2B
Q047	8-729-120-28	TRANSISTOR	2SC1623-L5L6	Q675	8-729-045-62	FET	2SK2158-T2B
Q063	8-729-600-22	TRANSISTOR	2SA1235-F	Q676	8-729-045-62	FET	2SK2158-T2B
Q064	8-729-120-28	TRANSISTOR	2SC1623-L5L6	Q677	8-729-045-62	FET	2SK2158-T2B
Q101	8-729-600-22	TRANSISTOR	2SA1235-F			< RESISTOR >	
Q102	8-729-600-22	TRANSISTOR	2SA1235-F	R001	1-219-107-91	RES-CHIP	1.5 5% 1/8W (JN20)
Q103	8-729-600-22	TRANSISTOR	2SA1235-F	R001	1-219-397-11	RES-CHIP	1.8 5% 1/8W (JN30)
Q104	8-729-600-22	TRANSISTOR	2SA1235-F	R002	1-219-397-11	RES-CHIP	1.8 5% 1/8W (JN30)
Q105	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R004	1-219-107-91	RES-CHIP	1.5 5% 1/8W (JN20)
Q106	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R004	1-219-397-11	RES-CHIP	1.8 5% 1/8W (JN30)
Q107	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R005	1-219-107-91	RES-CHIP	1.5 5% 1/8W (JN20)
Q108	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R005	1-219-397-11	RES-CHIP	1.8 5% 1/8W (JN30)
Q109	6-550-317-01	TRANSISTOR	2SD0814A0LS0 (JN30)				
Q110	6-550-317-01	TRANSISTOR	2SD0814A0LS0 (JN30)				
Q111	8-729-823-99	TRANSISTOR	2SC2909-AA				

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

CX-JN20/JN30

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R007	1-219-397-11	RES-CHIP	1.8 5% 1/8W (JN30)	R046	1-216-065-00	RES-CHIP	4.7K 5% 1/10W
R008	1-219-107-91	RES-CHIP	1.5 5% 1/8W (JN20)	R047	1-216-061-00	RES-CHIP	3.3K 5% 1/10W (JN30)
R008	1-219-397-11	RES-CHIP	1.8 5% 1/8W (JN30)	R047	1-216-065-00	RES-CHIP	4.7K 5% 1/10W (JN20)
R009	1-216-226-00	RES-CHIP	15K 5% 1/8W (JN30)	R048	1-216-295-00	SHORT CHIP	0
R010	1-216-226-00	RES-CHIP	15K 5% 1/8W (JN30)	R049	1-216-065-00	RES-CHIP	4.7K 5% 1/10W
R011	1-216-226-00	RES-CHIP	15K 5% 1/8W (JN30)	R050	1-216-001-00	RES-CHIP	10 5% 1/10W
R012	1-216-226-00	RES-CHIP	15K 5% 1/8W (JN30)	R051	1-216-097-11	RES-CHIP	100K 5% 1/10W
R013	1-216-226-00	RES-CHIP	15K 5% 1/8W (JN30)	R052	1-216-220-00	RES-CHIP	8.2K 5% 1/8W (JN20)
R014	1-216-226-00	RES-CHIP	15K 5% 1/8W (JN30)	R053	1-216-220-00	RES-CHIP	8.2K 5% 1/8W (JN20)
R015	1-216-226-00	RES-CHIP	15K 5% 1/8W (JN30)	R054	1-216-220-00	RES-CHIP	8.2K 5% 1/8W (JN20)
R016	1-216-226-00	RES-CHIP	15K 5% 1/8W (JN30)	R055	1-216-220-00	RES-CHIP	8.2K 5% 1/8W (JN20)
△ R017	1-219-122-11	FUSIBLE	0.33 5% 1/4W F (JN20)	R056	1-216-220-00	RES-CHIP	8.2K 5% 1/8W (JN20)
△ R017	1-219-123-11	FUSIBLE	0.47 5% 1/4W F (JN30)	R067	1-216-840-11	METAL CHIP	39K 5% 1/10W (JN30)
R024	1-216-184-00	RES-CHIP	270 5% 1/8W	R068	1-216-840-11	METAL CHIP	39K 5% 1/10W (JN30)
R025	1-216-184-00	RES-CHIP	270 5% 1/8W	R069	1-216-830-11	METAL CHIP	5.6K 5% 1/10W (JN30)
R026	1-216-188-00	RES-CHIP	390 5% 1/8W (JN30)	R070	1-216-838-11	METAL CHIP	27K 5% 1/10W (JN30)
R026	1-216-190-00	RES-CHIP	470 5% 1/8W (JN20)	R071	1-216-838-11	METAL CHIP	27K 5% 1/10W (JN30)
R027	1-216-188-00	RES-CHIP	390 5% 1/8W (JN30)	R072	1-216-830-11	METAL CHIP	5.6K 5% 1/10W (JN30)
R027	1-216-190-00	RES-CHIP	470 5% 1/8W (JN20)	R073	1-216-838-11	METAL CHIP	27K 5% 1/10W (JN30)
R028	1-216-186-00	RES-CHIP	330 5% 1/8W (JN30)	R074	1-216-838-11	METAL CHIP	27K 5% 1/10W (JN30)
R028	1-216-190-00	RES-CHIP	470 5% 1/8W (JN20)	R075	1-216-830-11	METAL CHIP	5.6K 5% 1/10W (JN30)
R029	1-216-188-00	RES-CHIP	390 5% 1/8W (JN30)	R076	1-216-821-11	METAL CHIP	1K 5% 1/10W
R029	1-216-190-00	RES-CHIP	470 5% 1/8W (JN20)	R077	1-216-821-11	METAL CHIP	1K 5% 1/10W
R030	1-216-188-00	RES-CHIP	390 5% 1/8W (JN30)	R078	1-216-864-11	SHORT CHIP	0
R030	1-216-190-00	RES-CHIP	470 5% 1/8W (JN20)	R079	1-216-864-11	SHORT CHIP	0
R031	1-216-833-11	METAL CHIP	10K 5% 1/10W	R080	1-216-845-11	METAL CHIP	100K 5% 1/10W
R032	1-216-841-11	METAL CHIP	47K 5% 1/10W	R082	1-216-839-11	METAL CHIP	33K 5% 1/10W (JN30)
R033	1-216-843-11	METAL CHIP	68K 5% 1/10W	R083	1-216-839-11	METAL CHIP	33K 5% 1/10W (JN30)
R035	1-216-832-11	METAL CHIP	8.2K 5% 1/10W	R084	1-216-842-11	METAL CHIP	56K 5% 1/10W (JN30)
R036	1-216-836-11	METAL CHIP	18K 5% 1/10W	R085	1-216-842-11	METAL CHIP	56K 5% 1/10W (JN30)
R038	1-216-296-11	SHORT CHIP	0	R086	1-216-833-11	METAL CHIP	10K 5% 1/10W (JN30)
R041	1-216-845-11	METAL CHIP	100K 5% 1/10W	R087	1-216-833-11	METAL CHIP	10K 5% 1/10W (JN30)
R042	1-216-845-11	METAL CHIP	100K 5% 1/10W	R092	1-216-809-11	METAL CHIP	100 5% 1/10W
R043	1-216-845-11	METAL CHIP	100K 5% 1/10W	R093	1-216-835-11	METAL CHIP	15K 5% 1/10W
R044	1-216-845-11	METAL CHIP	100K 5% 1/10W	R094	1-216-833-11	METAL CHIP	10K 5% 1/10W
R045	1-216-168-00	RES-CHIP	56 5% 1/8W (JN20)	R095	1-216-835-11	METAL CHIP	15K 5% 1/10W
R045	1-216-172-00	RES-CHIP	82 5% 1/8W (JN30)	R096	1-216-839-11	METAL CHIP	33K 5% 1/10W
				R097	1-216-839-11	METAL CHIP	33K 5% 1/10W
				R105	1-216-834-11	METAL CHIP	12K 5% 1/10W

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	Ref. No.	Part No.	Description	Remark
			(JN30)	△R150	1-245-545-11	METAL OXIDE	0.22 5% 3W F
R105	1-216-835-11	METAL CHIP	15K 5% 1/10W				
			(JN20)	△R151	1-245-545-11	METAL OXIDE	0.22 5% 3W F
R106	1-216-834-11	METAL CHIP	12K 5% 1/10W	△R152	1-245-545-11	METAL OXIDE	0.22 5% 3W F
			(JN30)	R153	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
R106	1-216-835-11	METAL CHIP	15K 5% 1/10W	R154	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
			(JN20)	R155	1-216-822-11	METAL CHIP	1.2K 5% 1/10W
R107	1-216-838-11	METAL CHIP	27K 5% 1/10W	R156	1-216-822-11	METAL CHIP	1.2K 5% 1/10W
R108	1-216-838-11	METAL CHIP	27K 5% 1/10W	R157	1-216-809-11	METAL CHIP	100 5% 1/10W
R109	1-216-809-11	METAL CHIP	100 5% 1/10W	R158	1-216-809-11	METAL CHIP	100 5% 1/10W
R110	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
R113	1-216-822-11	METAL CHIP	1.2K 5% 1/10W	R161	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R114	1-216-822-11	METAL CHIP	1.2K 5% 1/10W	R162	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R115	1-216-081-00	RES-CHIP	22K 5% 1/10W	R181	1-216-834-11	METAL CHIP	12K 5% 1/10W
			(JN20)	R182	1-216-834-11	METAL CHIP	12K 5% 1/10W
R115	1-216-083-00	RES-CHIP	27K 5% 1/10W	R183	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
			(JN30)				(JN30)
R116	1-216-081-00	RES-CHIP	22K 5% 1/10W				
			(JN20)	R183	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W
R116	1-216-083-00	RES-CHIP	27K 5% 1/10W				(JN20)
			(JN30)	R184	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
R117	1-216-206-00	RES-CHIP	2.2K 5% 1/8W				(JN30)
R118	1-216-206-00	RES-CHIP	2.2K 5% 1/8W	R184	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W
R119	1-216-206-00	RES-CHIP	2.2K 5% 1/8W				(JN20)
R120	1-216-206-00	RES-CHIP	2.2K 5% 1/8W	R185	1-216-843-11	METAL CHIP	68K 5% 1/10W
				R186	1-216-841-11	METAL CHIP	47K 5% 1/10W
R121	1-216-198-00	RES-CHIP	1K 5% 1/8W	R188	1-216-230-00	RES-CHIP	22K 5% 1/8W
R122	1-216-198-00	RES-CHIP	1K 5% 1/8W	R189	1-216-864-11	SHORT CHIP	0
R123	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	R201	1-249-393-11	CARBON	10 5% 1/4W
R124	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	R202	1-249-393-11	CARBON	10 5% 1/4W
R125	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	R203	1-216-150-11	RES-CHIP	10 5% 1/8W
R126	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	R204	1-216-150-11	RES-CHIP	10 5% 1/8W
R127	1-216-809-11	METAL CHIP	100 5% 1/10W	R236	1-216-861-11	METAL CHIP	2.2M 5% 1/10W
R128	1-216-809-11	METAL CHIP	100 5% 1/10W				(JN30)
R129	1-216-809-11	METAL CHIP	100 5% 1/10W	R237	1-216-049-11	RES-CHIP	1K 5% 1/10W
R130	1-216-809-11	METAL CHIP	100 5% 1/10W				(JN30)
				R238	1-216-206-00	RES-CHIP	2.2K 5% 1/8W
R131	1-216-829-11	METAL CHIP	4.7K 5% 1/10W				(JN30)
R132	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R239	1-216-206-00	RES-CHIP	2.2K 5% 1/8W
R133	1-216-824-11	METAL CHIP	1.8K 5% 1/10W				(JN30)
R134	1-216-824-11	METAL CHIP	1.8K 5% 1/10W				
R137	1-216-825-11	METAL CHIP	2.2K 5% 1/10W				
				R241	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R138	1-216-825-11	METAL CHIP	2.2K 5% 1/10W				(JN30)
R139	1-216-841-11	METAL CHIP	47K 5% 1/10W	R242	1-216-073-91	RES-CHIP	10K 5% 1/10W
			(JN30)				(JN30)
R139	1-216-864-11	SHORT CHIP	0 (JN20)	R243	1-216-049-11	RES-CHIP	1K 5% 1/10W
R140	1-216-841-11	METAL CHIP	47K 5% 1/10W				(JN30)
			(JN30)	R244	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R140	1-216-864-11	SHORT CHIP	0 (JN20)				(JN30)
				R246	1-216-214-00	RES-CHIP	4.7K 5% 1/8W
R141	1-216-821-11	METAL CHIP	1K 5% 1/10W				(JN30)
			(JN30)	R248	1-216-214-00	RES-CHIP	4.7K 5% 1/8W
R141	1-216-841-11	METAL CHIP	47K 5% 1/10W				(JN30)
			(JN20)	R249	1-216-214-00	RES-CHIP	4.7K 5% 1/8W
R142	1-216-821-11	METAL CHIP	1K 5% 1/10W				(JN30)
			(JN30)	R250	1-216-214-00	RES-CHIP	4.7K 5% 1/8W
R142	1-216-841-11	METAL CHIP	47K 5% 1/10W				(JN30)
			(JN20)	R252	1-216-833-11	METAL CHIP	10K 5% 1/10W
R143	1-216-803-11	METAL CHIP	33 5% 1/10W				(JN30)
				R253	1-216-833-11	METAL CHIP	10K 5% 1/10W
R144	1-216-803-11	METAL CHIP	33 5% 1/10W				(JN30)
R147	1-216-864-11	SHORT CHIP	0				
R148	1-216-864-11	SHORT CHIP	0	R257	1-216-841-11	METAL CHIP	47K 5% 1/10W
△R149	1-245-545-11	METAL OXIDE	0.22 5% 3W F				

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

CX-JN20/JN30

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R258	1-216-841-11	METAL CHIP	47K 5% 1/10W (JN30)	R620	1-216-838-11	METAL CHIP	27K 5% 1/10W
R259	1-216-841-11	METAL CHIP	47K 5% 1/10W (JN30)	R621	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R260	1-216-841-11	METAL CHIP	47K 5% 1/10W (JN30)	R622	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R261	1-216-829-11	METAL CHIP	4.7K 5% 1/10W (JN30)	R623	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
R262	1-216-829-11	METAL CHIP	4.7K 5% 1/10W (JN30)	R624	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
R263	1-216-829-11	METAL CHIP	4.7K 5% 1/10W (JN30)	R625	1-216-827-11	METAL CHIP	3.3K 5% 1/10W (JN30: CIS)
R264	1-216-829-11	METAL CHIP	4.7K 5% 1/10W (JN30)	R625	1-216-828-11	METAL CHIP	3.9K 5% 1/10W (JN20/JN30: AEP, UK)
R280	1-216-073-00	RES-CHIP	10K 5% 1/10W	R626	1-216-827-11	METAL CHIP	3.3K 5% 1/10W (JN30: CIS)
R281	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R626	1-216-828-11	METAL CHIP	3.9K 5% 1/10W (JN20/JN30: AEP, UK)
R282	1-216-834-11	METAL CHIP	12K 5% 1/10W	R627	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R283	1-216-833-11	METAL CHIP	10K 5% 1/10W	R628	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R284	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R629	1-216-833-11	METAL CHIP	10K 5% 1/10W
R290	1-216-841-11	METAL CHIP	47K 5% 1/10W	R630	1-216-833-11	METAL CHIP	10K 5% 1/10W
R291	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R631	1-216-817-11	METAL CHIP	470 5% 1/10W
R292	1-216-833-11	METAL CHIP	10K 5% 1/10W	R632	1-216-817-11	METAL CHIP	470 5% 1/10W
R293	1-216-844-11	METAL CHIP	82K 5% 1/10W	R633	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R294	1-216-844-11	METAL CHIP	82K 5% 1/10W	R634	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R296	1-216-841-11	METAL CHIP	47K 5% 1/10W	R635	1-216-822-11	METAL CHIP	1.2K 5% 1/10W
R297	1-216-841-11	METAL CHIP	47K 5% 1/10W	R636	1-216-822-11	METAL CHIP	1.2K 5% 1/10W
R301	1-216-840-11	METAL CHIP	39K 5% 1/10W	R637	1-216-815-11	METAL CHIP	330 5% 1/10W
R302	1-216-840-11	METAL CHIP	39K 5% 1/10W	R638	1-216-815-11	METAL CHIP	330 5% 1/10W
R303	1-216-844-11	METAL CHIP	82K 5% 1/10W	R643	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R304	1-216-844-11	METAL CHIP	82K 5% 1/10W	R644	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R305	1-216-849-11	METAL CHIP	220K 5% 1/10W	R645	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R311	1-216-833-11	METAL CHIP	10K 5% 1/10W	R651	1-216-809-11	METAL CHIP	100 5% 1/10W
R312	1-216-833-11	METAL CHIP	10K 5% 1/10W	R652	1-216-809-11	METAL CHIP	100 5% 1/10W
R313	1-216-838-11	METAL CHIP	27K 5% 1/10W	R653	1-216-837-11	METAL CHIP	22K 5% 1/10W
R314	1-216-797-11	METAL CHIP	10 5% 1/10W	R654	1-216-837-11	METAL CHIP	22K 5% 1/10W
R315	1-216-015-00	RES-CHIP	39 5% 1/10W (JN30: AEP, UK)	R655	1-216-837-11	METAL CHIP	22K 5% 1/10W
R315	1-216-804-11	METAL CHIP	39 5% 1/10W (JN20/JN30: CIS)	R656	1-216-837-11	METAL CHIP	22K 5% 1/10W
R316	1-216-833-11	METAL CHIP	10K 5% 1/10W	R658	1-216-837-11	METAL CHIP	22K 5% 1/10W
R317	1-216-821-11	METAL CHIP	1K 5% 1/10W	R659	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R318	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R661	1-216-835-11	METAL CHIP	15K 5% 1/10W
R601	1-216-809-11	METAL CHIP	100 5% 1/10W	R662	1-216-841-11	METAL CHIP	47K 5% 1/10W
R602	1-216-809-11	METAL CHIP	100 5% 1/10W	R663	1-216-833-11	METAL CHIP	10K 5% 1/10W
R603	1-216-852-11	METAL CHIP	390K 5% 1/10W	R664	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W
R604	1-216-852-11	METAL CHIP	390K 5% 1/10W	R665	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W
R605	1-216-822-11	METAL CHIP	1.2K 5% 1/10W	R666	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
R606	1-216-822-11	METAL CHIP	1.2K 5% 1/10W	R667	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
R607	1-216-845-11	METAL CHIP	100K 5% 1/10W	R670	1-216-833-11	METAL CHIP	10K 5% 1/10W
R608	1-216-845-11	METAL CHIP	100K 5% 1/10W	R671	1-216-842-11	METAL CHIP	56K 5% 1/10W
R609	1-216-836-11	METAL CHIP	18K 5% 1/10W	R672	1-216-833-11	METAL CHIP	10K 5% 1/10W
R610	1-216-836-11	METAL CHIP	18K 5% 1/10W	R673	1-216-821-11	METAL CHIP	1K 5% 1/10W
R612	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R674	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R615	1-216-835-11	METAL CHIP	15K 5% 1/10W	R675	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R616	1-216-835-11	METAL CHIP	15K 5% 1/10W	R676	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R617	1-216-835-11	METAL CHIP	15K 5% 1/10W	R677	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R618	1-216-835-11	METAL CHIP	15K 5% 1/10W	R678	1-216-817-11	METAL CHIP	470 5% 1/10W
R619	1-216-838-11	METAL CHIP	27K 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 0.5% 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

MAIN

MOTOR (LD)

MOTOR (TB)

PANEL

Ref. No.	Part No.	Description	Remark
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
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 (JN20/JN30: AEP, UK)
R807	1-216-821-11	METAL CHIP	1K 5% 1/10W (JN20/JN30: AEP, UK)
R809	1-216-864-11	SHORT CHIP	0 (JN20/JN30: AEP, UK)
R810	1-216-821-11	METAL CHIP	1K 5% 1/10W (JN20/JN30: AEP, UK)
R812	1-216-864-11	SHORT CHIP	0 (JN20/JN30: AEP, UK)
< THERMISTOR >			
TH101	1-803-790-21	THERMISTOR	
TH102	1-803-790-21	THERMISTOR	
< WIRE HOLDER >			
WH012	1-816-819-11	HOLDER, WIRE 9P (JN20)	
WH013	1-817-363-11	HOLDER, WIRE 11P (JN30)	
WH201	1-816-818-11	HOLDER, WIRE 5P	

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

Ref. No.	Part No.	Description	Remark
1-687-134-12 MOTOR (TB) BOARD *****			
< CONNECTOR >			
CN742	1-784-727-11	CONNECTOR, FFC 5P	

A-4732-992-A PANEL BOARD, COMPLETE (JN20/JN30: AEP, UK)			
A-4747-737-A PANEL BOARD, COMPLETE (JN30: CIS) *****			
< CAPACITOR/SHORT >			
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
C507	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V
C508	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C509	1-126-923-11	ELECT	220uF 20% 10V
C510	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C601	1-126-947-11	ELECT	47uF 20% 35V
C809	1-126-947-11	ELECT	47uF 20% 35V
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	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
C911	1-164-230-11	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	100000PF 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

PANEL

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C926	1-164-156-11	CERAMIC CHIP 0.1uF	25V	JR218	1-216-864-11	SHORT CHIP 0	
C927	1-164-156-11	CERAMIC CHIP 0.1uF	25V	JR219	1-216-864-11	SHORT CHIP 0	
C930	1-164-156-11	CERAMIC CHIP 0.1uF	25V	JR220	1-216-864-11	SHORT CHIP 0	
C931	1-164-156-11	CERAMIC CHIP 0.1uF	25V	JR401	1-216-864-11	SHORT CHIP 0	
C932	1-164-156-11	CERAMIC CHIP 0.1uF	25V	JR402	1-216-864-11	SHORT CHIP 0	
C933	1-164-173-11	CERAMIC CHIP 0.0039uF 10%	50V	JR601	1-216-296-11	SHORT CHIP 0	
C935	1-128-057-11	ELECT 330uF 20%	6.3V	JR602	1-216-864-11	SHORT CHIP 0	
		< CONNECTOR >		JR703	1-216-864-11	SHORT CHIP 0 (JN20/JN30: AEP, UK)	
CN101	1-793-767-11	CONNECTOR, BOARD TO BOARD 30P		JR903	1-216-864-11	SHORT CHIP 0	
CN403	1-784-784-11	CONNECTOR, FFC 23P		JR905	1-216-864-11	SHORT CHIP 0	
CN601	1-784-774-11	CONNECTOR, FFC 13P		JR906	1-216-864-11	SHORT CHIP 0	
CN701	1-568-830-11	CONNECTOR, FFC 11P		JR907	1-216-864-11	SHORT CHIP 0	
		< DIODE >		JR908	1-216-864-11	SHORT CHIP 0	
D101	8-719-991-33	DIODE 1SS133T-77		JR909	1-216-296-11	SHORT CHIP 0	
D201	8-719-991-33	DIODE 1SS133T-77		JR910	1-216-864-11	SHORT CHIP 0	
D501	8-719-991-33	DIODE 1SS133T-77		JR911	1-216-864-11	SHORT CHIP 0	
D503	8-719-991-33	DIODE 1SS133T-77		JR912	1-216-864-11	SHORT CHIP 0	
D504	8-719-991-33	DIODE 1SS133T-77		JR913	1-216-864-11	SHORT CHIP 0	
D505	8-719-991-33	DIODE 1SS133T-77		JR914	1-216-296-11	SHORT CHIP 0	
D506	8-719-991-33	DIODE 1SS133T-77				< RESISTOR >	
D507	8-719-921-80	DIODE MTZJ-11B		JW987	1-247-807-31	CARBON 100 5%	1/4W
D508	8-719-991-33	DIODE 1SS133T-77		JW995	1-247-807-31	CARBON 100 5%	1/4W
D509	8-719-991-33	DIODE 1SS133T-77				< TRANSISTOR >	
D601	8-719-991-33	DIODE 1SS133T-77		Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D602	8-719-991-33	DIODE 1SS133T-77		Q202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D609	8-719-991-33	DIODE 1SS133T-77		Q204	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D610	8-719-991-33	DIODE 1SS133T-77 (JN30: CIS)		Q205	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D611	8-719-991-33	DIODE 1SS133T-77		Q206	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D614	8-719-991-33	DIODE 1SS133T-77 (JN20/JN30: AEP, UK)		Q601	8-729-116-57	TRANSISTOR 2SB1068-K	
D620	6-500-334-01	DIODE MC2836		Q602	8-729-140-04	TRANSISTOR 2SB1116A-L	
D621	6-500-334-01	DIODE MC2836		Q603	8-729-140-04	TRANSISTOR 2SB1116A-L	
D622	6-500-334-01	DIODE MC2836		Q604	8-729-900-80	TRANSISTOR DTC114ES	
D623	6-500-334-01	DIODE MC2836		Q605	8-729-900-80	TRANSISTOR DTC114ES	
D624	6-500-334-01	DIODE MC2836		Q606	8-729-900-80	TRANSISTOR DTC114ES	
D625	6-500-334-01	DIODE MC2836		Q607	8-729-027-23	TRANSISTOR DTA114EKA-T146	
D626	6-500-334-01	DIODE MC2836		Q901	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D627	6-500-334-01	DIODE MC2836		Q902	8-729-027-31	TRANSISTOR DTA124EKA-T146	
		< FLUORESCENT INDICATOR TUBE >		Q903	8-729-027-59	TRANSISTOR DTC144EKA-T146	
FL901	1-518-894-11	INDICATOR TUBE, FLUORESCENT				< RESISTOR/FERRITE BEAD >	
		< IC >		R101	1-247-863-11	CARBON 22K 5%	1/4W (JN20/JN30: AEP, UK)
IC201	6-704-046-01	IC BU2099FV		R102	1-249-436-11	CARBON 39K 5%	1/4W (JN20/JN30: AEP, UK)
IC501	6-704-135-01	IC MM1614A		R103	1-249-436-11	CARBON 39K 5%	1/4W (JN20/JN30: AEP, UK)
IC502	8-759-533-04	IC M62703ML-E1		R104	1-247-831-11	CARBON 1K 5%	1/4W
IC801	6-600-213-01	IC GP1UE271XK		R105	1-247-831-11	CARBON 1K 5%	1/4W
IC901	6-803-497-01	IC LC876796B-52D8		R106	1-247-831-11	CARBON 1K 5%	1/4W
		< SHORT >		R107	1-247-831-11	CARBON 1K 5%	1/4W
JR101	1-216-296-11	SHORT CHIP 0 (JN20/JN30: AEP, UK)		R108	1-247-831-11	CARBON 1K 5%	1/4W
JR102	1-216-296-11	SHORT CHIP 0		R109	1-247-831-11	CARBON 1K 5%	1/4W
JR204	1-216-864-11	SHORT CHIP 0		R110	1-247-831-11	CARBON 1K 5%	1/4W
JR205	1-216-864-11	SHORT CHIP 0		R111	1-247-831-11	CARBON 1K 5%	1/4W
JR213	1-216-864-11	SHORT CHIP 0		R112	1-247-831-11	CARBON 1K 5%	1/4W
JR215	1-216-864-11	SHORT CHIP 0		R113	1-247-831-11	CARBON 1K 5%	1/4W
JR216	1-216-864-11	SHORT CHIP 0					

PANEL

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R114	1-247-831-11	CARBON	1K	5%	1/4W	R627	1-216-841-11	METAL CHIP	47K	5%	1/10W
R118	1-249-393-11	CARBON	10	5%	1/4W	R628	1-216-841-11	METAL CHIP	47K	5%	1/10W
R119	1-247-831-11	CARBON	1K	5%	1/4W	R629	1-216-841-11	METAL CHIP	47K	5%	1/10W
R121	1-247-831-11	CARBON	1K	5%	1/4W	R630	1-216-841-11	METAL CHIP	47K	5%	1/10W
R122	1-247-831-11	CARBON	1K	5%	1/4W	R631	1-216-841-11	METAL CHIP	47K	5%	1/10W
R201	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R637	1-216-841-11	METAL CHIP	47K	5%	1/10W
R202	1-247-807-31	CARBON	100	5%	1/4W	R638	1-247-831-11	CARBON	1K	5%	1/4W
R203	1-216-849-11	METAL CHIP	220K	5%	1/10W	R639	1-247-831-11	CARBON	1K	5%	1/4W
R204	1-216-840-11	METAL CHIP	39K	5%	1/10W	R640	1-247-831-11	CARBON	1K	5%	1/4W
R205	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R641	1-247-831-11	CARBON	1K	5%	1/4W
R206	1-216-864-11	SHORT CHIP	0			R642	1-247-831-11	CARBON	1K	5%	1/4W
R208	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R643	1-247-831-11	CARBON	1K	5%	1/4W
R210	1-216-809-11	METAL CHIP	100	5%	1/10W	R644	1-249-421-11	CARBON	2.2K	5%	1/4W
R211	1-216-834-11	METAL CHIP	12K	5%	1/10W	R645	1-249-421-11	CARBON	2.2K	5%	1/4W
R212	1-216-851-11	METAL CHIP	330K	5%	1/10W	R701	1-216-809-11	METAL CHIP	100	5%	1/10W
R213	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R702	1-247-807-31	CARBON	100	5%	1/4W
R214	1-216-849-11	METAL CHIP	220K	5%	1/10W	R703	1-216-809-11	METAL CHIP	100	5%	1/10W
R215	1-216-809-11	METAL CHIP	100	5%	1/10W	R704	1-414-760-21	FERRITE, EMI (SMD) (1608)			
R216	1-216-851-11	METAL CHIP	330K	5%	1/10W	R705	1-414-760-21	FERRITE, EMI (SMD) (1608)			
R217	1-216-849-11	METAL CHIP	220K	5%	1/10W	R706	1-216-809-11	METAL CHIP	100	5%	1/10W
R218	1-216-809-11	METAL CHIP	100	5%	1/10W	R707	1-216-809-11	METAL CHIP	100	5%	1/10W
R219	1-216-833-11	METAL CHIP	10K	5%	1/10W	R708	1-414-760-21	FERRITE, EMI (SMD) (1608)			
R220	1-216-849-11	METAL CHIP	220K	5%	1/10W	R709	1-247-807-31	CARBON	100	5%	1/4W
R221	1-216-841-11	METAL CHIP	47K	5%	1/10W	R817	1-249-401-11	CARBON	47	5%	1/4W
R222	1-216-849-11	METAL CHIP	220K	5%	1/10W	R818	1-247-873-11	CARBON	56K	5%	1/4W
R223	1-216-809-11	METAL CHIP	100	5%	1/10W	R902	1-216-841-11	METAL CHIP	47K	5%	1/10W
R225	1-247-807-31	CARBON	100	5%	1/4W	R903	1-216-841-11	METAL CHIP	47K	5%	1/10W
R226	1-249-429-11	CARBON	10K	5%	1/4W	R904	1-216-841-11	METAL CHIP	47K	5%	1/10W
R227	1-249-429-11	CARBON	10K	5%	1/4W	R905	1-216-841-11	METAL CHIP	47K	5%	1/10W
R228	1-249-429-11	CARBON	10K	5%	1/4W	R906	1-216-841-11	METAL CHIP	47K	5%	1/10W
R247	1-216-834-11	METAL CHIP	12K	5%	1/10W	R907	1-216-841-11	METAL CHIP	47K	5%	1/10W
R248	1-216-845-11	METAL CHIP	100K	5%	1/10W	R908	1-216-841-11	METAL CHIP	47K	5%	1/10W
R249	1-216-838-11	METAL CHIP	27K	5%	1/10W	R909	1-216-841-11	METAL CHIP	47K	5%	1/10W
R254	1-216-849-11	METAL CHIP	220K	5%	1/10W	R910	1-216-841-11	METAL CHIP	47K	5%	1/10W
R261	1-216-833-11	METAL CHIP	10K	5%	1/10W	R911	1-216-841-11	METAL CHIP	47K	5%	1/10W
R262	1-216-833-11	METAL CHIP	10K	5%	1/10W	R912	1-216-841-11	METAL CHIP	47K	5%	1/10W
R263	1-216-833-11	METAL CHIP	10K	5%	1/10W	R913	1-216-845-11	METAL CHIP	100K	5%	1/10W
R264	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R914	1-216-845-11	METAL CHIP	100K	5%	1/10W
R334	1-216-833-11	METAL CHIP	10K	5%	1/10W	R915	1-216-845-11	METAL CHIP	100K	5%	1/10W
R335	1-216-833-11	METAL CHIP	10K	5%	1/10W	R916	1-216-845-11	METAL CHIP	100K	5%	1/10W
R336	1-216-833-11	METAL CHIP	10K	5%	1/10W	R917	1-216-845-11	METAL CHIP	100K	5%	1/10W
R501	1-249-408-11	CARBON	180	5%	1/4W	R918	1-216-845-11	METAL CHIP	100K	5%	1/10W
R502	1-216-841-11	METAL CHIP	47K	5%	1/10W	R919	1-216-845-11	METAL CHIP	100K	5%	1/10W
R503	1-216-841-11	METAL CHIP	47K	5%	1/10W	R920	1-216-845-11	METAL CHIP	100K	5%	1/10W
R504	1-249-429-11	CARBON	10K	5%	1/4W	R921	1-216-845-11	METAL CHIP	100K	5%	1/10W
R505	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R922	1-216-845-11	METAL CHIP	100K	5%	1/10W
R506	1-216-815-11	METAL CHIP	330	5%	1/10W	R923	1-216-845-11	METAL CHIP	100K	5%	1/10W
R507	1-216-833-11	METAL CHIP	10K	5%	1/10W	R924	1-216-845-11	METAL CHIP	100K	5%	1/10W
R601	1-216-809-11	METAL CHIP	100	5%	1/10W	R925	1-216-845-11	METAL CHIP	100K	5%	1/10W
R607	1-216-821-11	METAL CHIP	1K	5%	1/10W	R926	1-216-845-11	METAL CHIP	100K	5%	1/10W
R608	1-216-821-11	METAL CHIP	1K	5%	1/10W	R927	1-216-845-11	METAL CHIP	100K	5%	1/10W
R609	1-216-821-11	METAL CHIP	1K	5%	1/10W	R928	1-216-845-11	METAL CHIP	100K	5%	1/10W
R610	1-216-821-11	METAL CHIP	1K	5%	1/10W	R929	1-216-845-11	METAL CHIP	100K	5%	1/10W
R611	1-216-821-11	METAL CHIP	1K	5%	1/10W	R930	1-216-845-11	METAL CHIP	100K	5%	1/10W
R612	1-216-821-11	METAL CHIP	1K	5%	1/10W	R931	1-216-845-11	METAL CHIP	100K	5%	1/10W
R625	1-216-841-11	METAL CHIP	47K	5%	1/10W	R932	1-216-845-11	METAL CHIP	100K	5%	1/10W
R626	1-216-841-11	METAL CHIP	47K	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

CX-JN20/JN30

PANEL	PT	SENSOR	SW
-------	----	--------	----

Ref. No.	Part No.	Description	Remark
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	1-247-879-11	CARBON	100K 5% 1/4W
R954	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
R957	1-247-879-11	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	1-247-879-11	CARBON	100K 5% 1/4W
R972	1-249-439-11	CARBON	68K 5% 1/4W (JN20/JN30: AEP, UK)
R972	1-247-879-11	CARBON	100K 5% 1/4W (JN30: CIS)
R973	1-216-843-11	METAL CHIP	68K 5% 1/10W (JN20/JN30: AEP, UK)
R973	1-216-845-11	METAL CHIP	100K 5% 1/10W (JN30: CIS)
R974	1-247-879-11	CARBON	100K 5% 1/4W
R975	1-247-879-11	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)	

	1-688-399-15	PT BOARD	

		< CAPACITOR >	
C091	1-165-621-11	CERAMIC CHIP	0.1uF 50V
		< CONNECTOR >	
* CN091	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P	

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D091	6-500-334-01	DIODE MC2836	
D092	6-500-335-01	DIODE MC2838	
		< TRANSFORMER >	
△PT011	1-439-735-11	TRANSFORMER, POWER	
		< RELAY >	
△RY001	1-755-276-11	RELAY, POWER	
		< WIRE HOLDER >	
WH092	1-816-819-11	HOLDER, WIRE 9P (JN20)	
WH093	1-817-363-11	HOLDER, WIRE 11P (JN30)	

	1-687-132-12	SENSOR BOARD	

		< CONNECTOR >	
CN731	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE) 3P	
		< IC >	
IC731	(NOT SUPPLIED)		

	1-687-669-12	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) (JN30: UK)	
254	1-693-654-11	TUNER PACK (FM/AM) (JN30: CIS)	
256	1-769-943-11	WIRE (FLAT TYPE) (11 CORE) (JN30: CIS)	
256	1-773-007-11	WIRE (FLAT TYPE) (15 CORE) (JN20/JN30: AEP, UK)	
257	1-827-222-11	WIRE (FLAT TYPE) (19 CORE)	
△259	1-757-140-11	CORD, POWER (JN20/JN30: AEP, CIS)	
△259	1-775-787-62	CORD, POWER (JN30: UK)	
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-213DCP) (including M701 (SLED), M702 (SPINDLE))	
653	1-792-024-11	WIRE (FLAT TYPE) (16 CORE)	
C911	1-162-282-31	CERAMIC 100PF 10% 50V (JN20/JN30: AEP, UK)	

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
C912	1-162-282-31	CERAMIC	100PF 10% 50V (JN20/JN30: AEP, UK)
C913	1-128-821-11	CERAMIC	1000PF 5% 50V (JN20/JN30: AEP, UK)
C950	1-128-815-11	CERAMIC	330PF 5% 50V
M741	A-4723-963-A	MOTOR ASSY, TABLE	
M751	A-4736-655-A	MOTOR ASSY, LOADING	
△PT002	1-439-925-11	TRANSFORMER, POWER (JN30)	
△PT002	1-439-966-11	TRANSFORMER, POWER (JN20)	
S711	1-477-680-12	ENCODER, ROTARY (DISC TRAY ADDRESS DETECT)	

ACCESSORIES

△ 1-770-019-51 ADAPTOR, CONVERSION PLUG (JN30: UK)

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

