

CX-JT7

SERVICE MANUAL

Ver 1.0 2003.04

AEP Model
UK Model
E Model



CX-JT7 is the tuner, amplifier, cassette deck and CD player section in JAX-T7 and JAX-PK7.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM74F-K6BD71A
	Base Unit Name	BU-K6BD71A
	Optical Block Name	KSM-213DCP
	Optical Pick-up Name	KSS-213D
Tape deck Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	CWM43FR16 CWM43RR23

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 Rated: 80 W + 80 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500)
Reference: 100 W + 100 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324)
MUSIC POWER: 225 W + 225 W
Total harmonic distortion 0.08 % (50 W, 1 kHz, 6 ohms, DIN AUDIO)
Input MD (VIDEO): 1.5 V
Outputs SPEAKERS: 6 ohms or more
PHONES: 32 ohms or more

CASSETTE DECK

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

CD PLAYER

Laser Semiconductor laser
(λ = 780 nm)
Emission duration: continuous
1 bit dual
D/A converter
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 130 W
Power consumption With ECO mode on: 0.25 W
in standby mode With ECO mode off: 20 W
Dimensions (W x H x D) 280 x 328 x 437 mm (AEP, UK, CIS)
280 x 328 x 446 mm (MX, E51)
Weight 8.4 kg (AEP, UK, CIS)
9.3 kg (MX, E51)

Specifications and external appearance are subject to change without notice.

COPYRIGHT

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• Abbreviation

E51 : Chilean and Peruvian models
MX : Mexican model

COMPACT DISC DECK RECEIVER

9-877-252-01
2003D0500-1
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Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation



Notes on chip component replacement

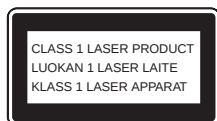
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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.

This label is located on the rear exterior.

SAFETY-RELATED COMPONENT WARNING!!

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

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SECTION 1 SERVICING NOTES

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

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

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

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

NOTES ON LASER DIODE EMISSION CHECK

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

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

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

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)



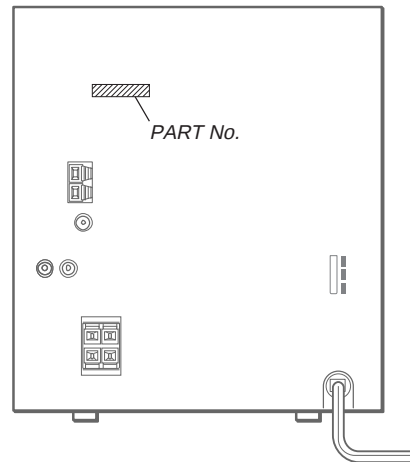
LEAD FREE MARK

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.

• MODEL IDENTIFICATION

– Back Panel –



MODEL	PART No.
Chilean and Peruvian models	4-245-109-4□
AEP, UK, CIS and Mexican models	4-245-109-5□

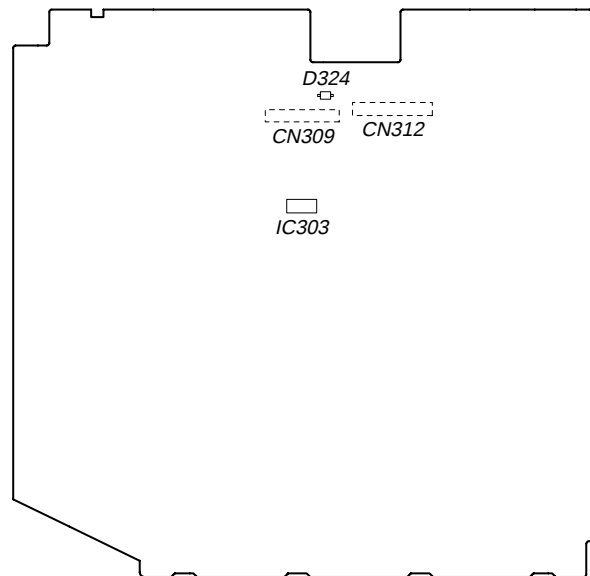
• DISCRIMINATION

Either type of the MAIN board, Part No. 1-688-080-11 or 1-688-080-13 is used for Chilean and Peruvian models.

Note: For other models, only one type of the MAIN board, Part No. 1-688-080-13 is used.

How to identify the type is described below.

– MAIN BOARD (Conductor Side) –

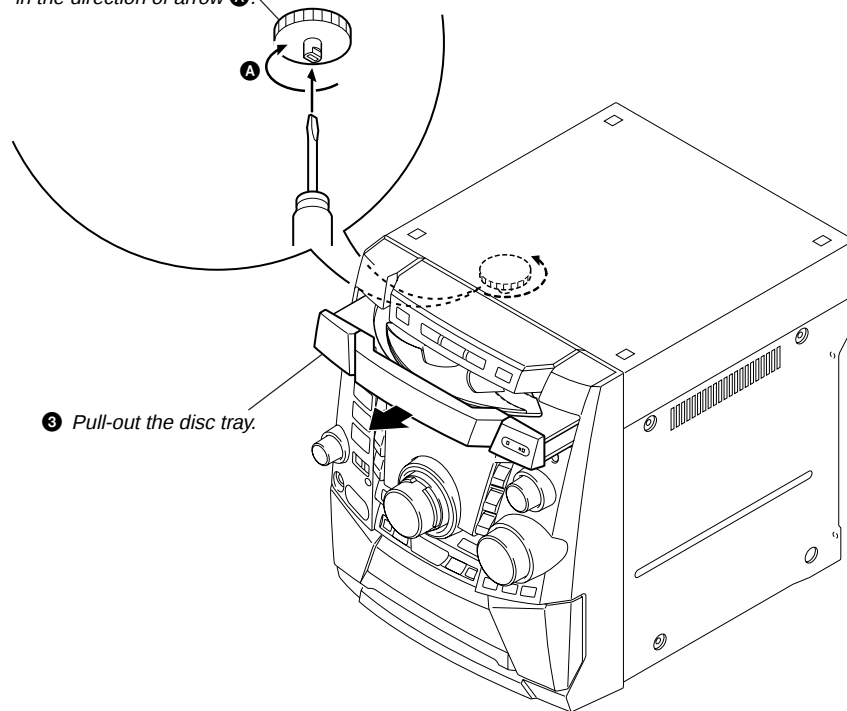


	D324
Suffix-11	×
Suffix-13	○

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

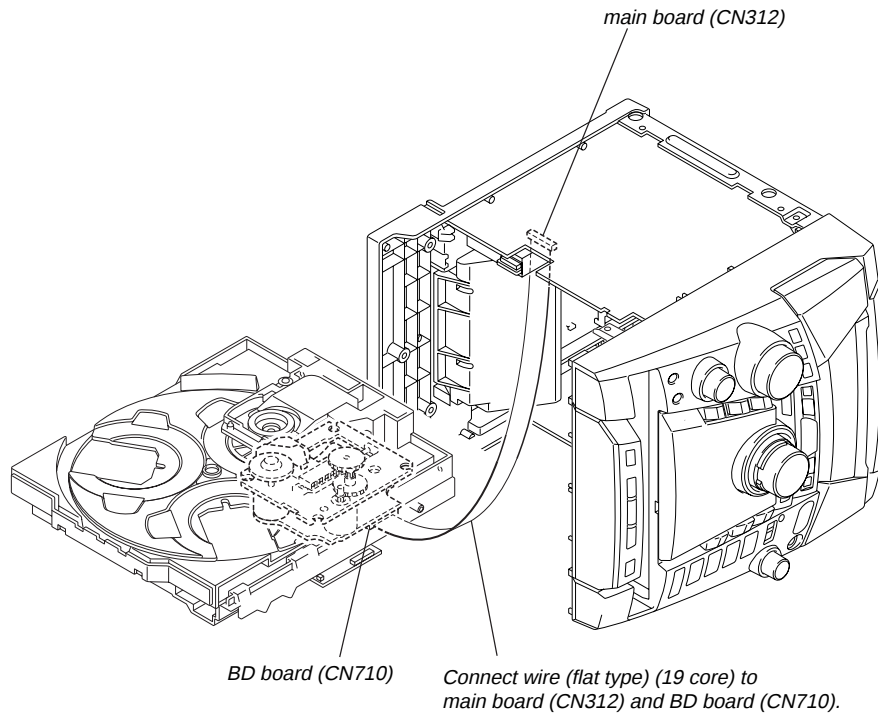
❶ Remove the case (side-L).

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

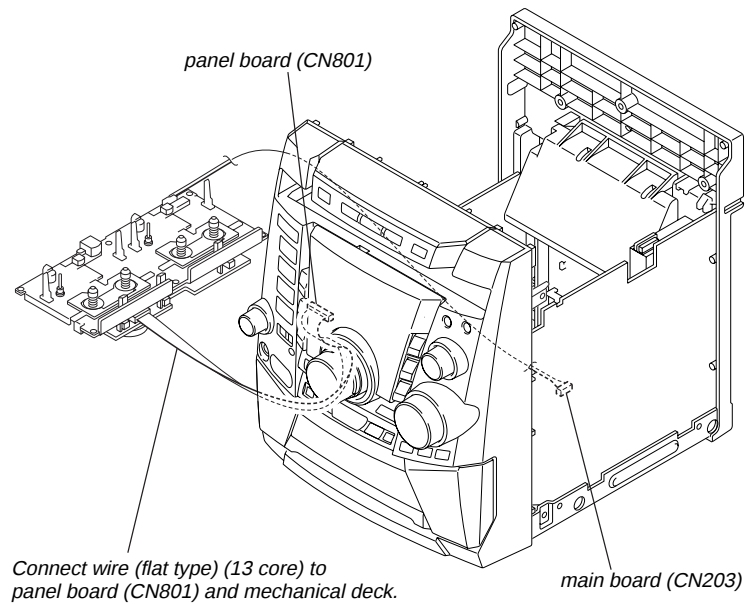


❸ Pull-out the disc tray.

SERVICE POSITION – CD mechanism deck –



– Tape mechanism deck –



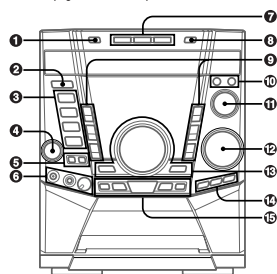
SECTION 2 GENERAL

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/DISC SKIP**
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 TAPE A/B**
Selects Tape function, and deck A or B.

- TUNER BAND**
Selects Tuner function and the radio band.

- MD (VIDEO)**
Selects the function of external equipment connected to MD (VIDEO) jacks.

- CD**
Selects CD function.

- 4 TREBLE/MIDDLE**
Enhances high or middle frequency sound.

- 5 CD SYNC**
Starts Automatic CD dubbing.

- REC PAUSE/START**
Starts recording.

- 6 PHONES jack**
Plug in here an optional headphones set with a mini stereo plug ($\phi 3.5$ mm). Speaker output is canceled.

- MIC jack (Mexican, Chilean and Peruvian models)**
Connects the microphone here.

- MIC MIXING (Mexican, Chilean and Peruvian models)**
Adjusts the microphone volume.

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

- 8 $\triangle$ OPEN/CLOSE**
Opens or closes the disc compartment.

- 9 HEAVY, VOCAL, SALSA, TECHNO, HIP HOP, MANUAL**
Activates a graphic equalization curve.

- 10 MODE**
Selects various modes (Play mode and Tape reverse, etc.) when used in combination with ENTER and MULTI JOG.

- ENTER**
Fixes the modes and the time (Play mode and Tape reverse, etc.) when used in combination with MODE and MULTI JOG.

- 11 MULTI JOG**
CD: skips to a previous or a succeeding track.
Tuner: selects a preset station.
Clock and Timer: sets the time.
Selects the mode and the time when used in combination with MODE and ENTER.

- 12 VOLUME (10)**
Adjusts the volume.

- 13 BASS**
Adjusts low frequency sound.

- SURROUND**
Switches surround on and off.

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

- 14 DISPLAY**
Displays the time and the remaining time for CD.
When the unit is off, press DISPLAY to switch between DEMO, Clock and ECO display modes.

- ALBUM $\nabla/\blacktriangle$**
Selects a previous album or a succeeding album with MP3-CDs.

- PTY (AEP and UK models)**
Displays a program type for RDS (Radio Data System)

- 15 $\blacktriangleleft\blacktriangleright$ TUNING DOWN, $\blacktriangleright\blacktriangleright$ TUNING UP ($\blacktriangleleft\blacktriangleright$, $\blacktriangleright\blacktriangleright$)**
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.

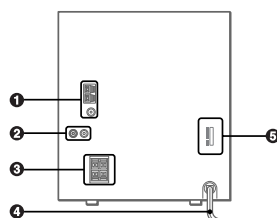
- II PAUSE**
CD and Tapes: pauses playback.

- $\blacktriangleleft\blacktriangleright$ DIR (TAPE B)**
CD and Tapes: starts playback.

- STOP**
CD and Tapes: stops playback.

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 MD (VIDEO) 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 MD (VIDEO).

- Tip:**
To change the displayed name for this function, turn the unit on, then hold down MD (VIDEO) and press POWER on the unit. Repeat the procedure to select "MD" or "VIDEO".

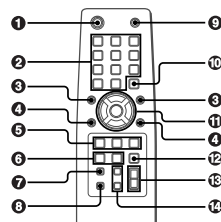
- 3 SPEAKER terminals**
Connect the speaker cord of the supplied front speakers here.

- 4 AC power cord**

- 5 AC VOLTAGE selector (Chilean and Peruvian models)**
Switches AC voltage among 120V, 220V, and 230V-240V.
Make sure it matches your local voltage.

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

Selects a CD track of the specified number.

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

EDIT

Enters Automatic CD dubbing mode when pressed in stop mode.

BAND

Selects Tuner function and the radio band.

TAPE A/B

Selects Tape function, and deck A or B.

SPECTRUM

Changes the spectrum analyzer display.

TUNER MODE

Switches between stereo or monaural FM reception.

KARAOKE (Mexican, Chilean and Peruvian models)

Selects Vocal Fader mode.

GEQ

Enters Graphic Equalizer setting mode.

TUNER MEMORY

Tuner: stores the received station in to preset.

SURROUND

Switches surround on and off.

9 I◀▶

CD: selects a track.

Tuner: selects a preset station.

BASS, MID and TREBLE: adjusts the level.

Clock and Timer: sets the time.

4 ALBUM ↘/↗

Selects a previous album or a succeeding album.

5 PLAY MODE

CD: selects a playback mode.

Tape: selects a reverse mode

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

Displays the time and the remaining time for CD.

When the unit is off, press **DISPLAY** to switch between DEMO, Clock and ECO display modes.

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 MD (VIDEO).

10 DISC SKIP

Select a disc.

11 ▶/◀▶

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, MID or TREBLE setting mode

CLEAR

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

Note (AEP, UK and CIS models)

The buttons not explained above (**KARAOKE**) do 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" 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**. The time will be displayed for 6 seconds.

Tip: (Mexican, Chilean and Peruvian models)

"RM 12:00" indicates midnight and "PM 12:00" noon.

If "-: -:" appears when the unit is turned off

There has been a power interruption. Re-set the clock.

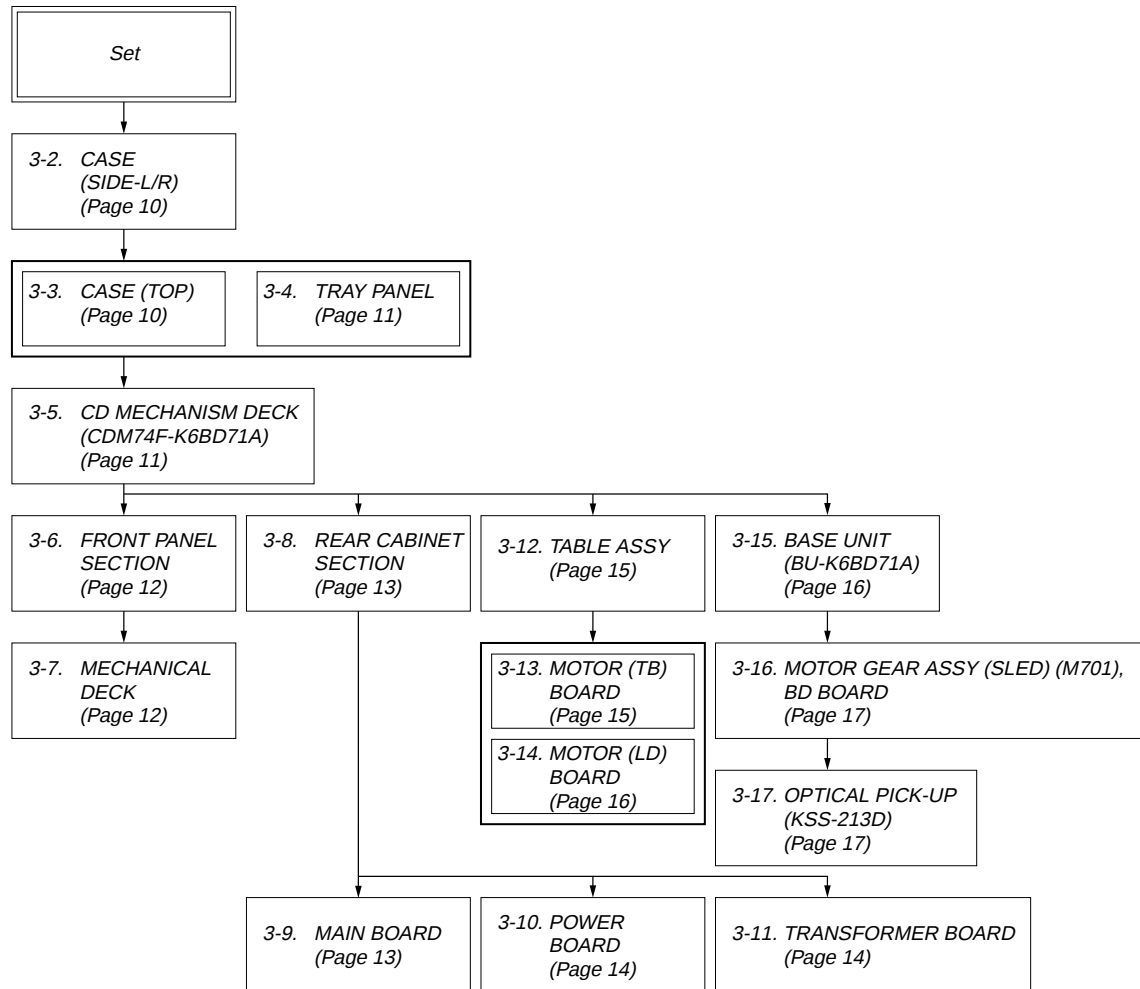
SECTION 3 DISASSEMBLY

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

3-1. DISASSEMBLY FLOW

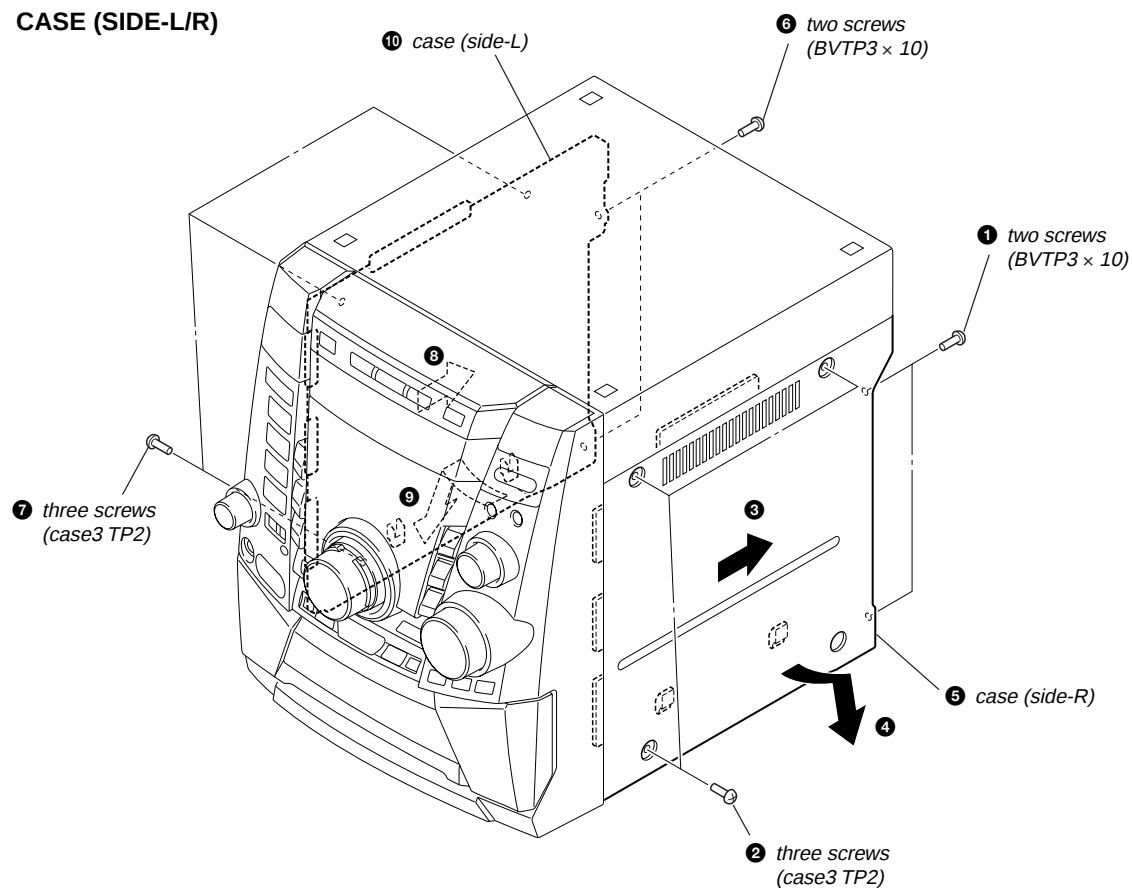
Note 1: The process described in  can be performed in any order.

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

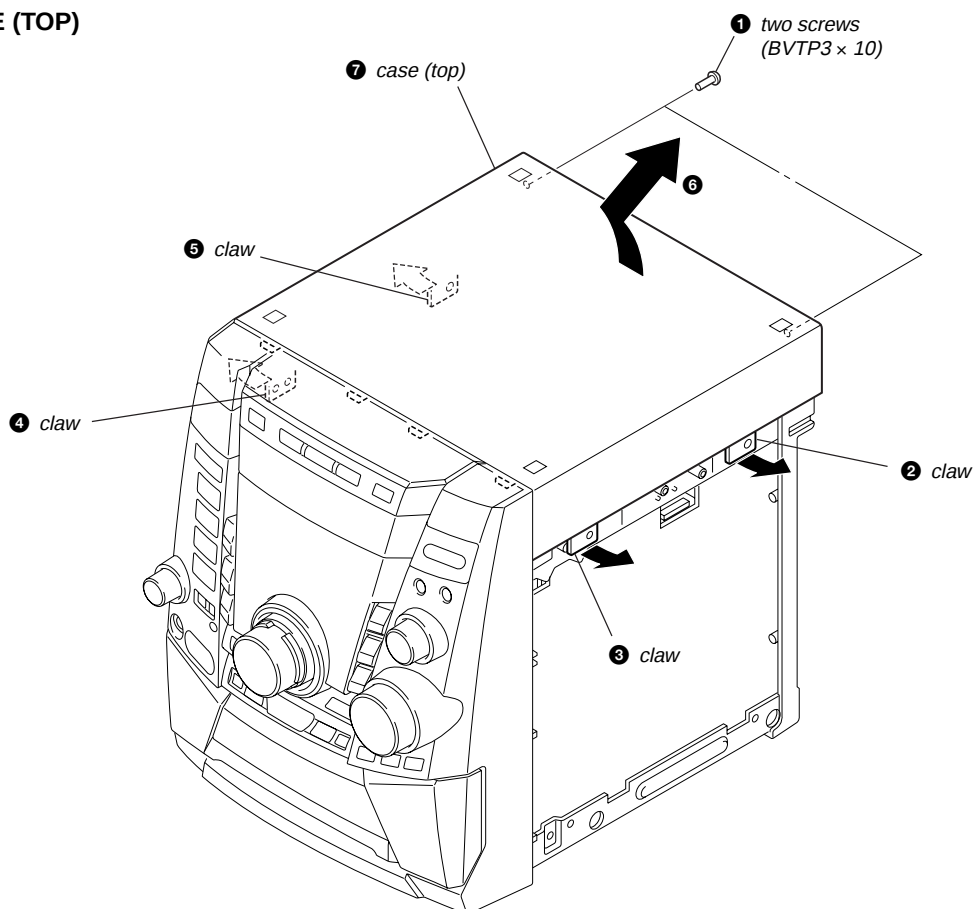


Note: Follow the disassembly procedure in the numerical order given.

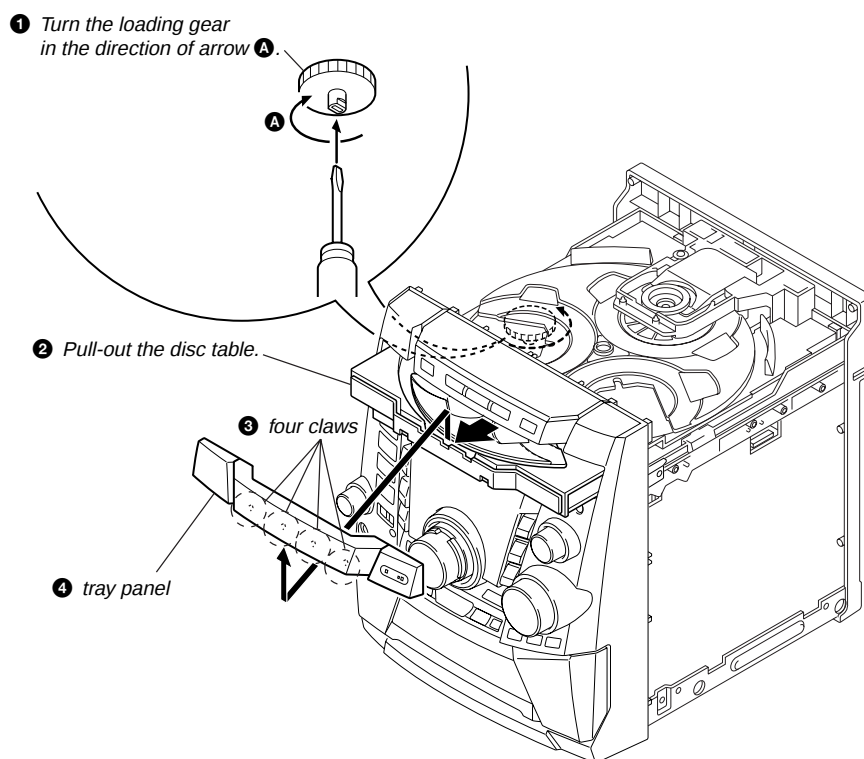
3-2. CASE (SIDE-L/R)



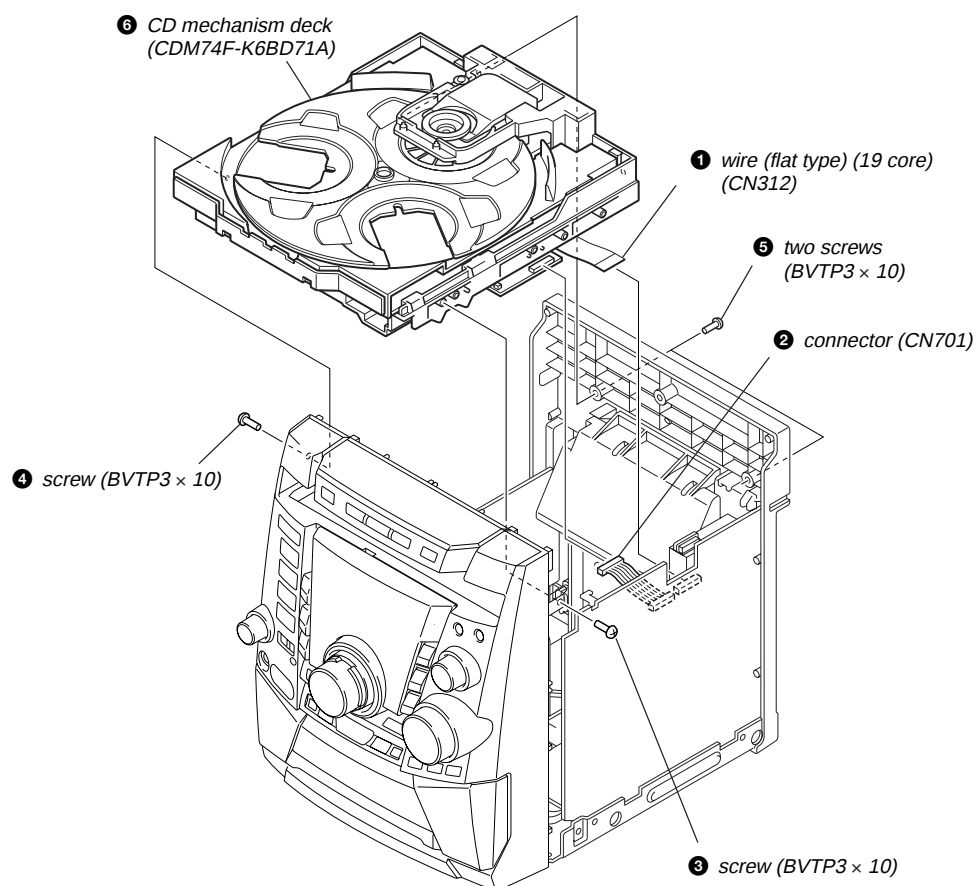
3-3. CASE (TOP)



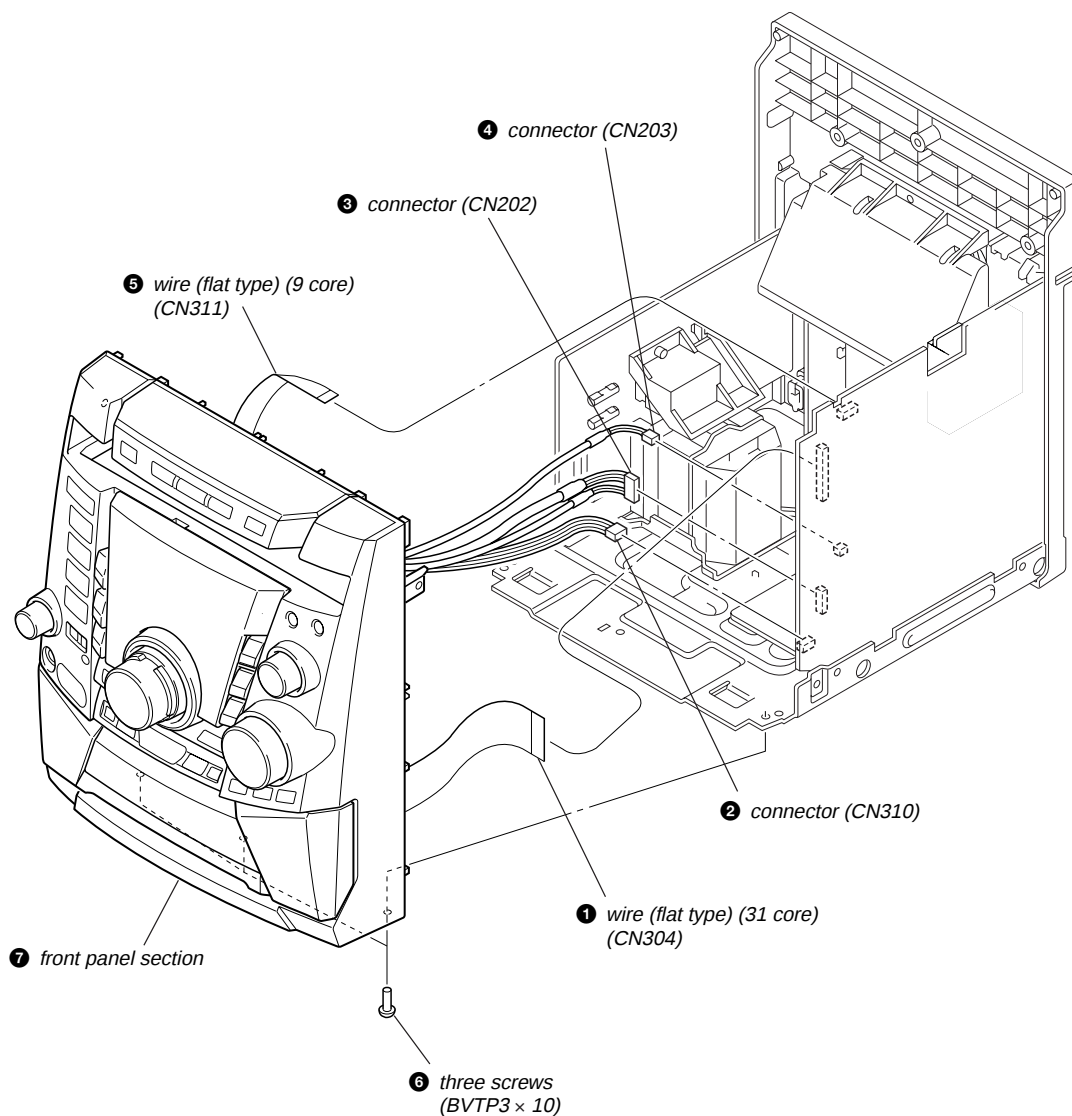
3-4. TRAY PANEL



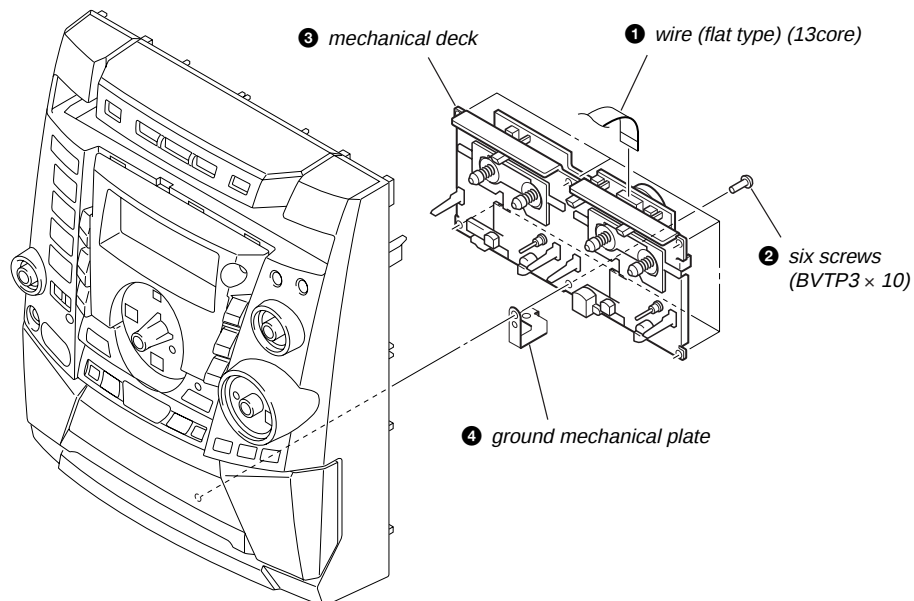
3-5. CD MECHANISM DECK (CDM74F-K6BD71A)



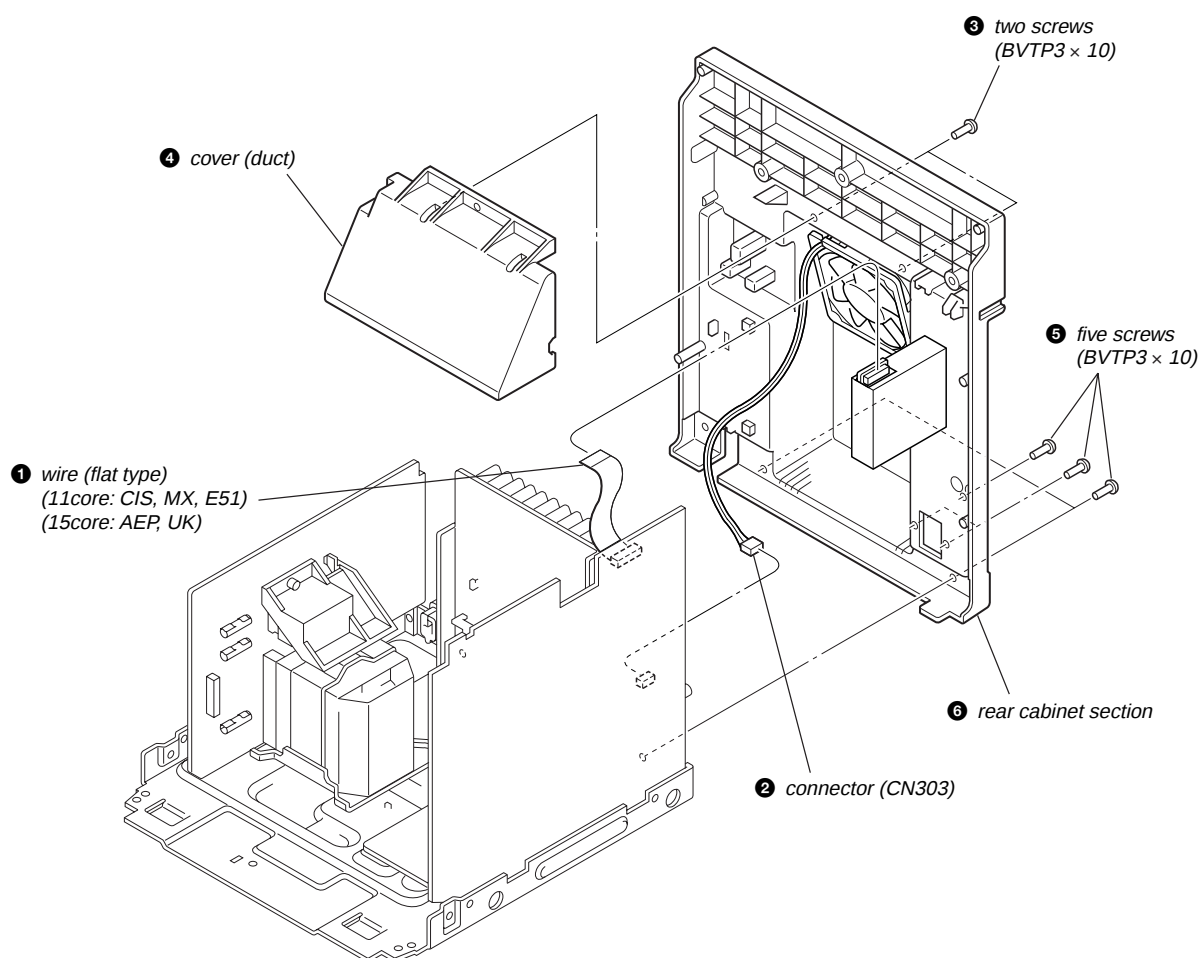
3-6. FRONT PANEL SECTION



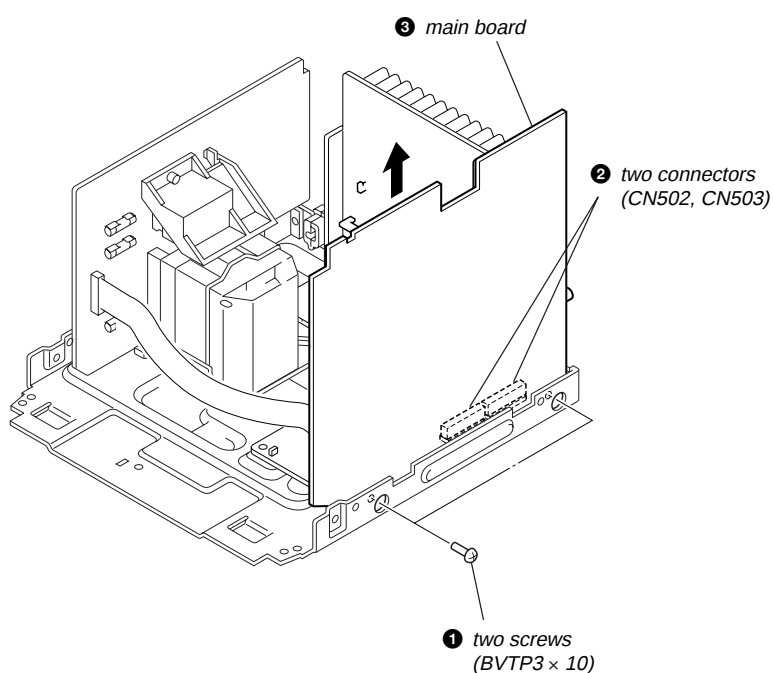
3-7. MECHANICAL DECK



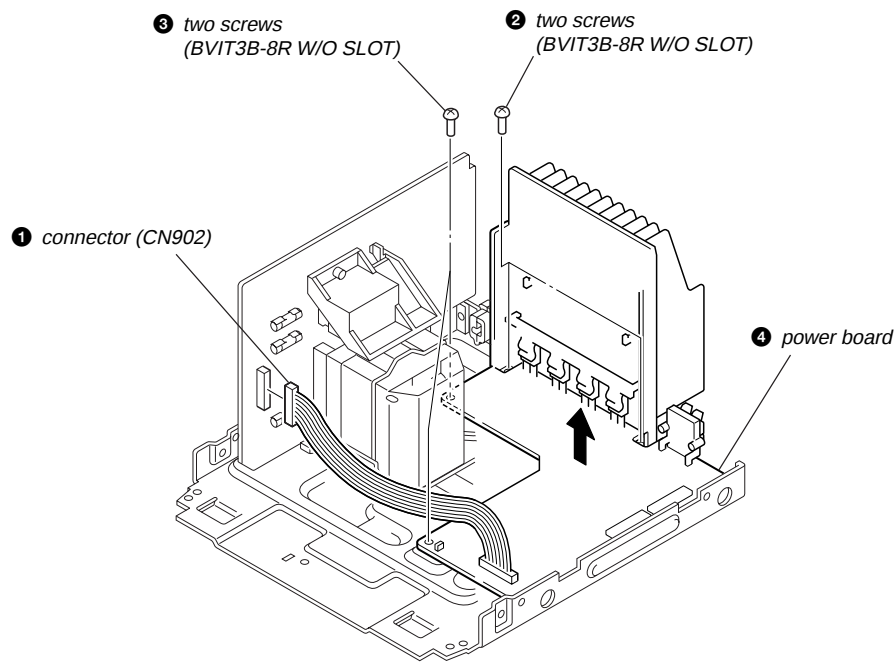
3-8. REAR CABINET SECTION



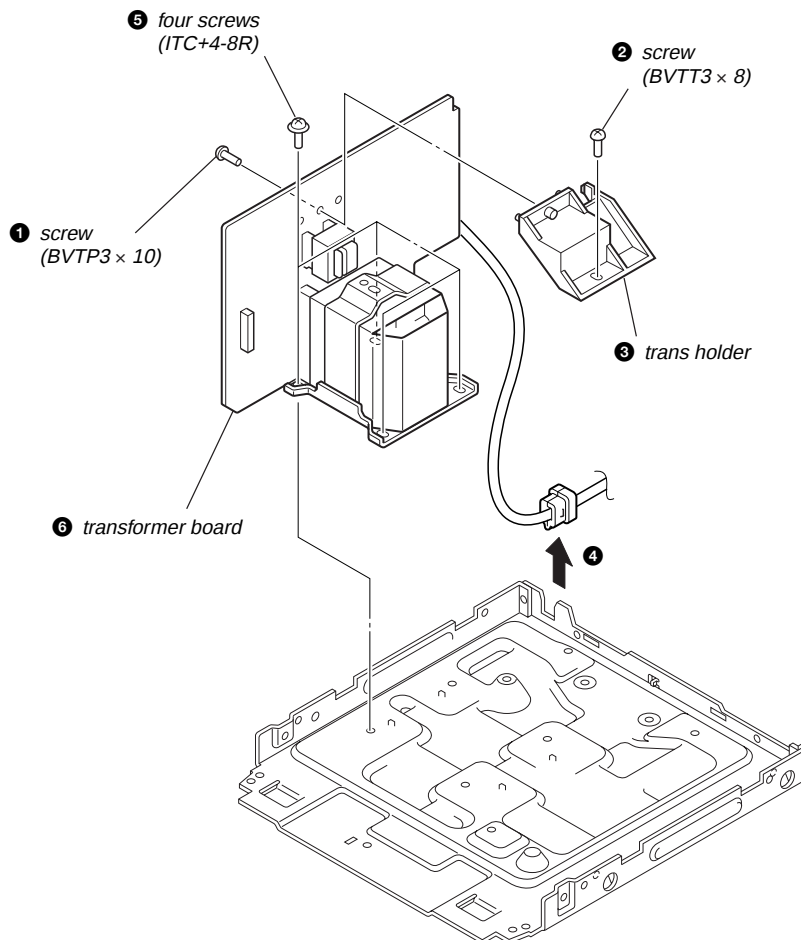
3-9. MAIN BOARD



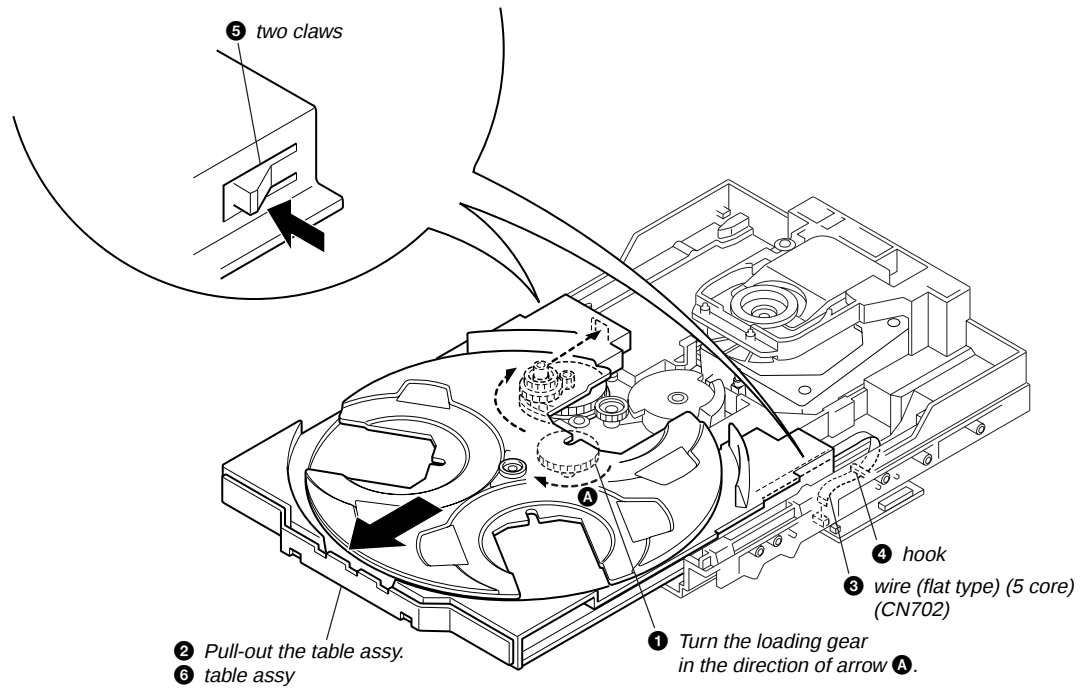
3-10. POWER BOARD



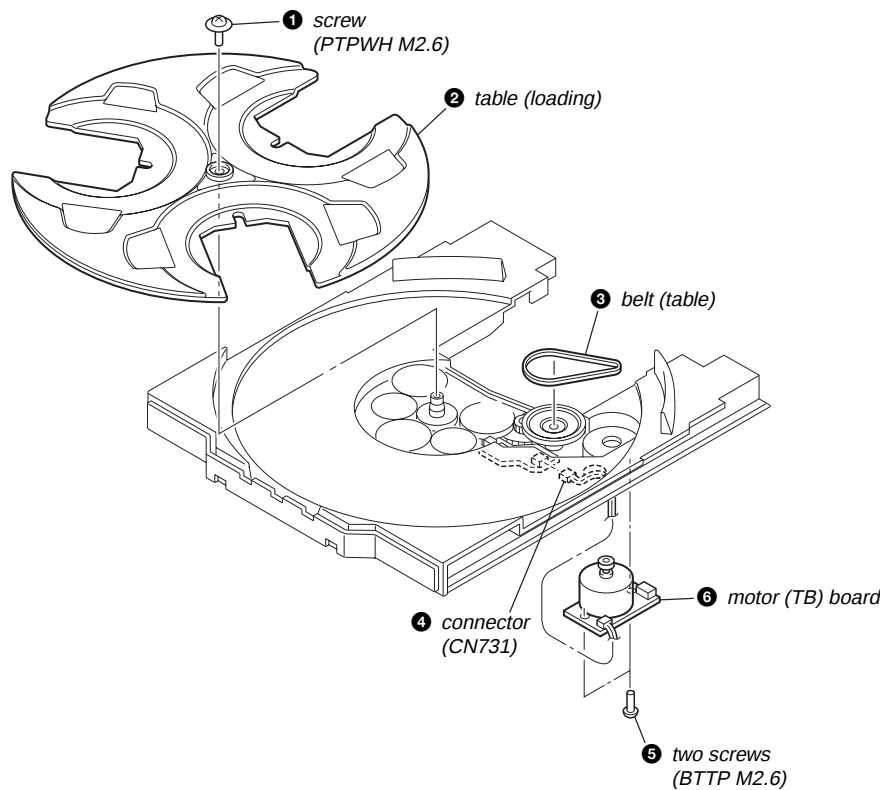
3-11. TRANSFORMER BOARD



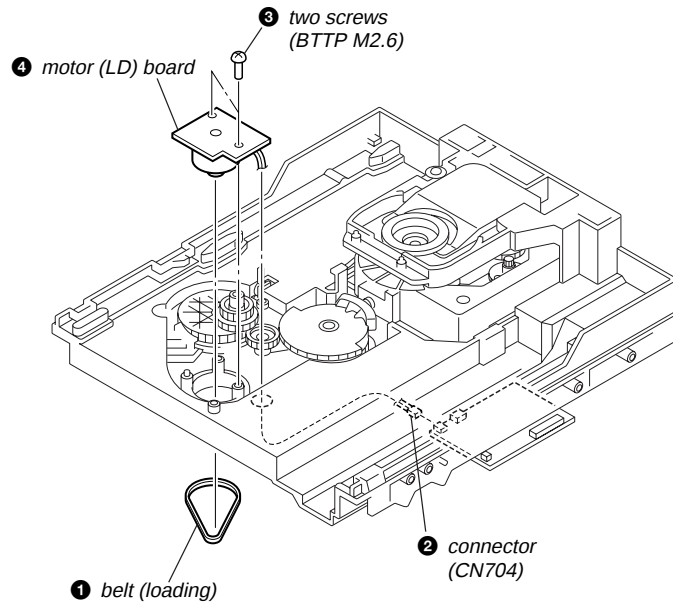
3-12. TABLE ASSY



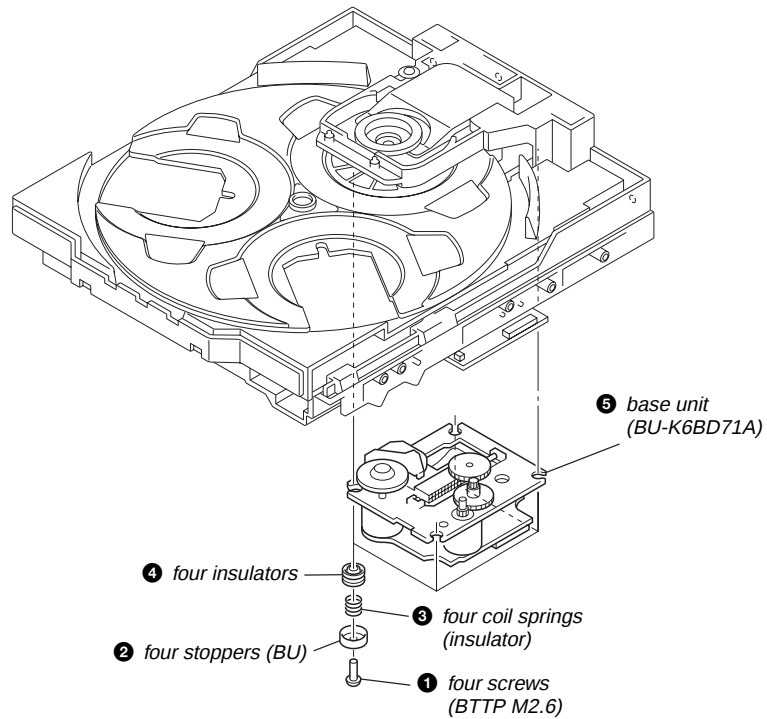
3-13. MOTOR (TB) BOARD



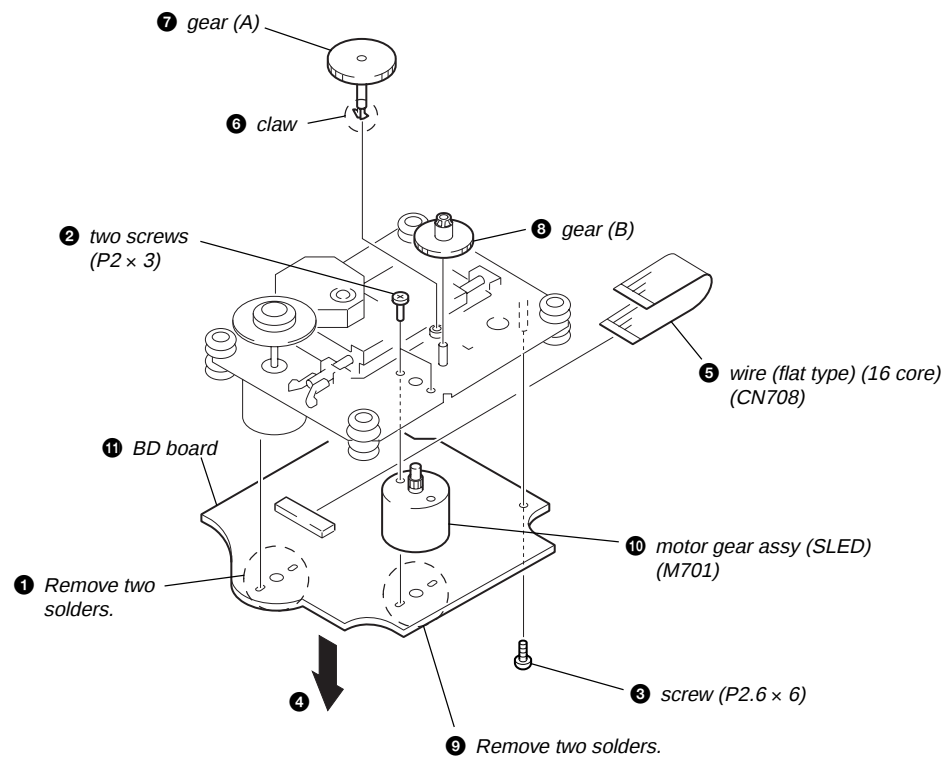
3-14. MOTOR (LD) BOARD



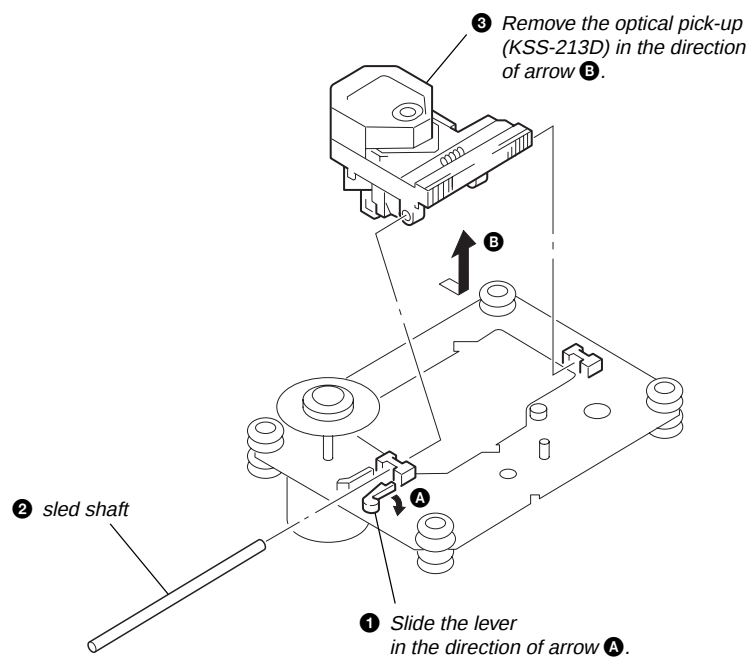
3-15. BASE UNIT (BU-K6BD71A)



3-16. MOTOR GEAR ASSY (SLED) (M701), BD BOARD



3-17. OPTICAL PICK-UP (KSS-213D)



SECTION 4

TEST MODE

[COLD RESET]

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

Procedure:

- Press the **[POWER]** key to turn the power ON.
- Press three keys of **[■]**, **[ENTER]** and **[POWER]** simultaneously.
- The message "RESET" is displayed on the fluorescent indicator tube momentarily, then becomes standby states.

[TUNER STEP CHANGE-OVER]

(Except AEP, UK and CIS models)

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

Procedure:

- Press the **[POWER]** key to turn the power ON.
- Press the **[TUNER BAND]** key to select "AM".
- Press the **[POWER]** key to turn the power OFF.
- Press two keys of **[ENTER]** and **[POWER]** simultaneously.
- The message "9K STEP" or "10K STEP" is displayed on the fluorescent indicator tube, and thus the channel step is changed over.

[CD SHIP MODE]

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

Procedure:

- Press the **[POWER]** key to turn the power ON.
- Press the **[CD]** key to select "CD".
- Press two keys of **[CD]** and **[POWER]** simultaneously.
- The message "LOCK" is displayed on the fluorescent indicator tube, and the CD ship mode is set.

[CHANGE-OVER FUNCTION OF MD/VIDEO]

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

Procedure:

- Set to standby state.
- Press two keys of **[MD (VIDEO)]** and **[POWER]** simultaneously.
- The message "MD" or "VIDEO" is displayed on the fluorescent indicator tube, and the function of external input is changed over.

[CD TRAY LOCK MODE]

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

Procedure:

- Press the **[POWER]** key to turn the power ON.
- Press the **[CD]** key to select "CD".
- While pressing the **[■]** key, press the **[▲]** key for 5 seconds.
- The message "LOCKED" is displayed on the fluorescent indicator tube and the tray is locked. (Even if pressing the **[▲]** key, the message "LOCKED" is displayed on the fluorescent indicator tube and the tray is locked)
- To release from this mode, while pressing the **[■]** key, press the **[▲]** key for 5 seconds.
- The message "UNLOCKED" is displayed on the fluorescent indicator tube and the tray is unlocked.

[AMP TEST MODE]

- This mode is used to set the parameter of AMP IC for adjustment of tone quality and VACS level and display VACS status.

Procedure:

- Press the **[POWER]** key to turn the power ON.
- Press three keys of **[■]**, **[HEAVY]** and **[HIP POP]** simultaneously.
- When the AMP test mode is activated, the message "AMP TEST" is displayed on the fluorescent indicator tube momentarily.
- Press two keys of **[HEAVY]** and **[DISC DIRECT PLAY 2]** simultaneously, mode is changed over to parameter setting of AMP IC and display of VACS status.
- When the VACS ON, the message "V2255255" is displayed on the fluorescent indicator tube, and when the VACS OFF, the message "2255255" is displayed on the fluorescent indicator tube.
- Press the **[VOCAL]** key, DBFB ON/OFF is changed over.
- Press the **[ENTER]** key, surround ON/OFF is changed over.
- Press the **[MANUAL]** key, EQ band is changed over to LOW, MID or HIGH.
- Press the **[HIP POP]** and **[TECHNO]** key, EQ curve adjustment value is changed over between -8dB to +8dB.
- To release from this mode, press two keys of **[HEAVY]** and **[TECHNO]** simultaneously.

[AGING MODE]

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

CD section and tape deck section work in parallel.

If an error occurred:

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

If no error occurs:

The aging operation continues repeatedly.

Procedure:

- Press the **[POWER]** key to turn the power ON.
- Press the **[CD]** key to select "CD".
- Set disc on the tray and set tape into the deck.
- Set the "ALL DISCS" mode and "REV OFF" mode.
- Press three keys of **[■]**, **[HEAVY]** and **[DISC CHANGE/DISC SKIP]** simultaneously.
- The message "AGING" is displayed on the fluorescent indicator tube momentarily, then aging operations of CD and tape are started at the same time.
- To release from this mode, operate the "COLD RESET".

1. Display at the Aging Mode

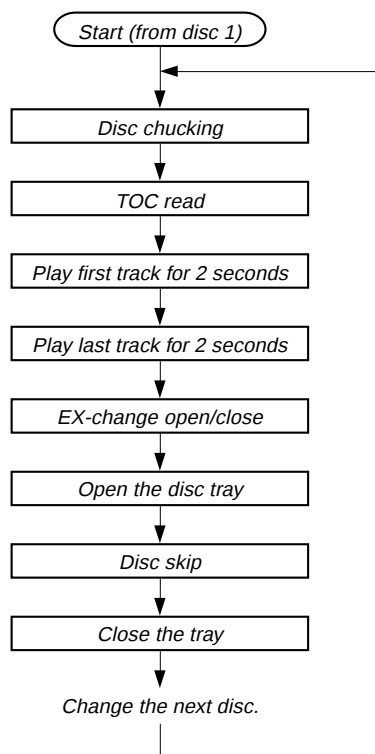
Display operating state of CD section and tape deck section alternately.

If an error occurred, stop display which that section.

2. CD Section

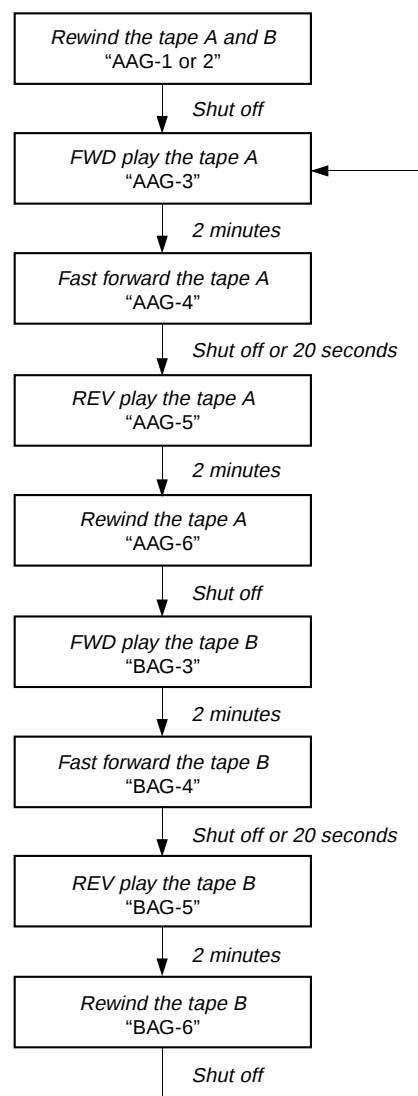
The sequence during the aging mode is following as below.

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

Aging mode sequence (CD section) :**3. Tape Deck Section**

The sequence during the aging mode is following as below.

If an error occurred, stop display that step.

Aging mode sequence (tape deck section) :

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

[GC TEST MODE]

- This mode is used to check the fluorescent indicator tube, LED and key.

Procedure:

1. Press the **[POWER]** key to turn the power ON.
2. Press three keys of **[■]**, **[HEAVY]** and **[DISC DIRECT PLAY 2]** simultaneously.
3. Fluorescent indicator tube and LEDs are all turned ON.
4. Press two keys of **[HEAVY]** and **[DISC DIRECT PLAY 2]** simultaneously, mode is changed over.
5. In the key check mode, press each key, the defined key number of every each key list is displayed on the fluorescent indicator tube.
6. In the key count check mode, "K-CNT 0" is displayed on the fluorescent indicator tube. Each time a key is pressed, "K" value increases. However, once a key is pressed, it is no longer taken into account.
7. In the headphone input check mode, connect the headphone, the message "H_P ON" is displayed on the fluorescent indicator tube, and disconnect the headphone, the message "H_P OFF" is displayed on the fluorescent indicator tube.
8. In the volume check mode, turn the **[VOLUME]** knob, the display on the fluorescent indicator tube is changed over to "VOL UP", "VOL FLAT" or "VOL DOWN"

[MC TEST MODE]

- This mode is used to check operations of Amplifier.

Procedure:

1. Press the **[POWER]** key to turn the power ON.
2. Press three keys of **[■]**, **[HEAVY]** and **[DISC DIRECT PLAY 3]** simultaneously.
3. When the MC test mode is activated, the message "MC MODE" is displayed on the fluorescent indicator tube momentarily, then VACS level is displayed on the fluorescent indicator tube.
4. Press the **[TECHNO]** key, the display on the fluorescent indicator tube is changed over to "EQ MAX", press the **[MANUAL]** key, the display on the fluorescent indicator tube is changed over to "EQ MID", press the **[HIP POP]** key, the display on the fluorescent indicator tube is changed over to "EQ MIN",
5. Turn the **[VOLUME]** knob, the display on the fluorescent indicator tube is changed over to "VOL MAX", "VOL MID" or "VOL MIN"
6. Press the **[ENTER]** key, VACS ON/OFF is changed over.
7. When the **[REC PAUSE/START]** key is pressed with a tape set in the deck-B, the function is switched "MD" or "VIDEO" and recording starts. When the **[◀▶]** or **[▶▶]** key is pressed during recording, the tape is rewound back to the beginning of recording, the function is switched to "TAPE B", then playback starts.
8. When the **[CD SYNC]** key is pressed with the test tape (AMS-100, AMS-110A) in the deck, number of space between tunes is counted, then if AMS-110A is set, "OK" is displayed on the fluorescent indicator tube and if AMS-100 is set, "NG" is displayed on the fluorescent indicator tube.
9. To release from this mode, press the **[POWER]** key.

[MODEL, DESTINATION AND VERSION DISPLAY]

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

Procedure:

1. Set to the standby state.
2. Press three keys of **[■]**, **[TECHNO]** and **[HEAVY]** simultaneously.
3. When the model, destination and version display mode is activated, the model and destination is displayed on the fluorescent indicator tube.
4. Press two keys of **[HEAVY]** and **[DISC DIRECT PLAY 2]** simultaneously, mode is changed over to model and destination display mode and version display mode.
5. In the version display mode, press the **[DISC DIRECT PLAY 3]** key, display is changed over to version display and year, month and day of the software creation display.
6. To release from this mode, press the two keys of **[TECHNO]** and **[HEAVY]** simultaneously.

[CD ERROR CODE DISPLAY]

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

Procedure:

1. Press the **[POWER]** key to turn the power ON.
2. Press the **[CD]** key to select "CD".
3. Press three keys of **[■]**, **[HEAVY]** and **[DISC DIRECT PLAY 1]** simultaneously.

Note: Error code is not displayed on the liquid crystal display.

[CD SERVICE MODE]

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

Procedure:

1. Press the **[POWER]** key to turn the power ON.
2. Press the **[CD]** key to select "CD".
3. Press three keys of **[■]**, **[HEAVY]** and **[▲]** simultaneously.
4. When the CD service mode is activated, the message "TRVS ON" is displayed on the fluorescent indicator tube.
5. Press the **[▶▶]** key, optical pick-up move to outside track and the message "SLED OUT" is displayed on the fluorescent indicator tube.
6. Press the **[◀◀]** key, optical pick-up move to inside track and the message "SLED IN" is displayed on the fluorescent indicator tube..
7. Press the **[TECHNO]** key, traverse ON/OFF is changed over.

[5 REPEAT LIMIT CANCEL]

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

Procedure:

1. Press the **[POWER]** key to turn the power ON.
2. Press the **[CD]** key to select "CD".
3. Press three keys of **[■]**, **[HEAVY]** and **[▶▶]** simultaneously.

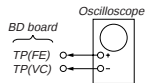
SECTION 5
ELECTRICAL ADJUSTMENTS

CD SECTION

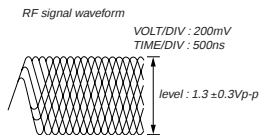
Note:

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



Note: Clear RF signal waveform means that the shape "0" can be clearly distinguished at the center of the waveform.

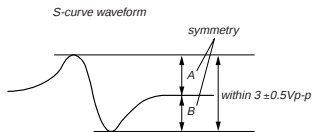


Connecting Location: BD board

– BD Board (Conductor side) –

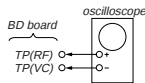
Procedure :

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.



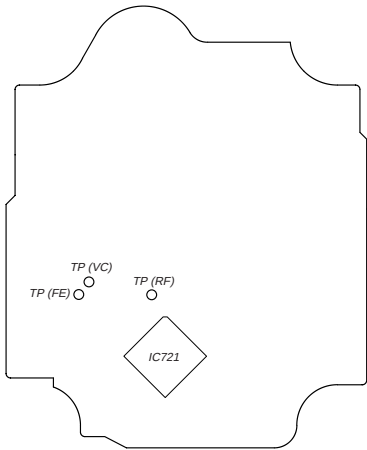
Note: • Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF LEVEL CHECK

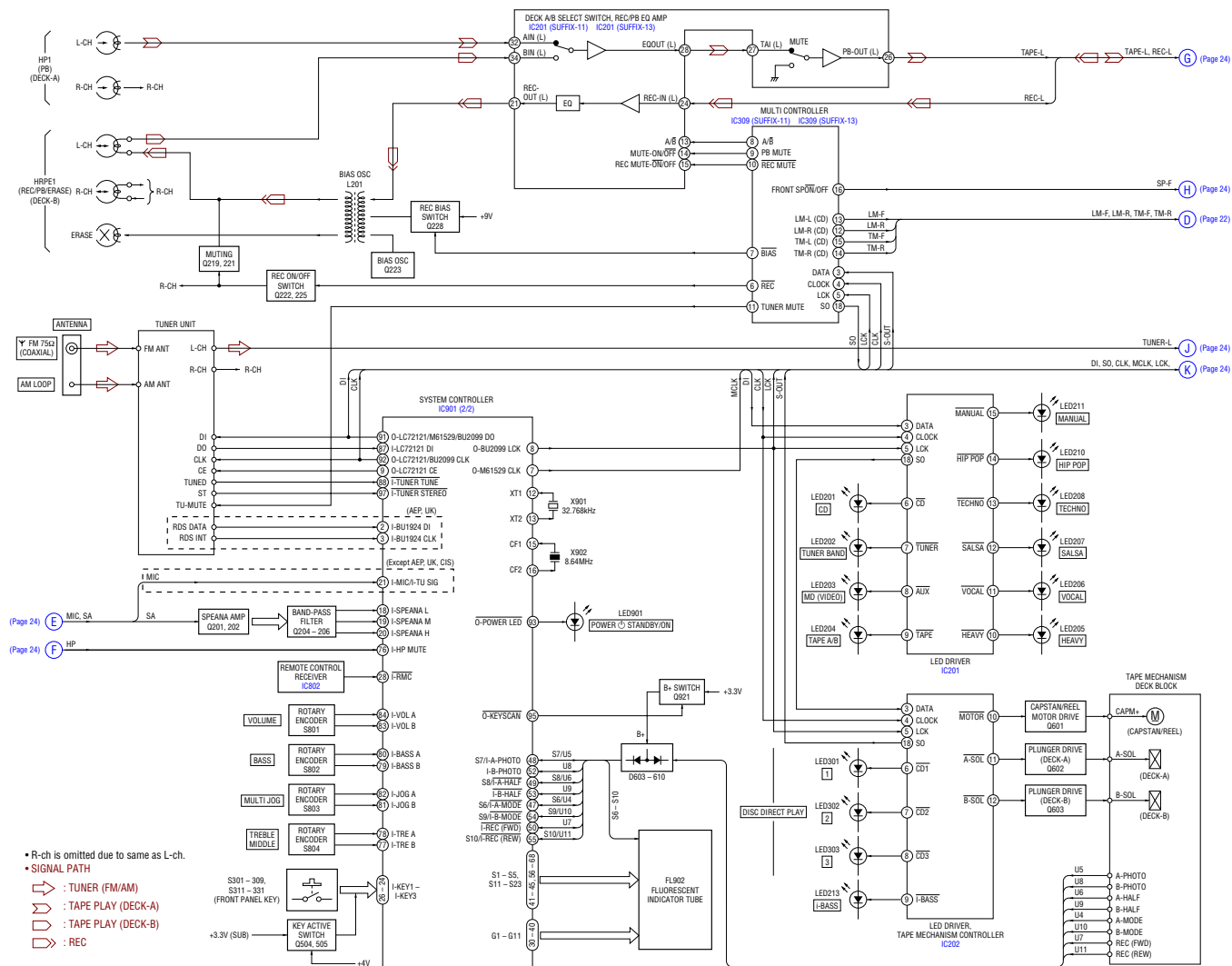


Procedure :

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.



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



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



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

Note on Printed Wiring Board:

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

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

- Indication of transistor.



These are omitted.



These are omitted.



These are omitted.

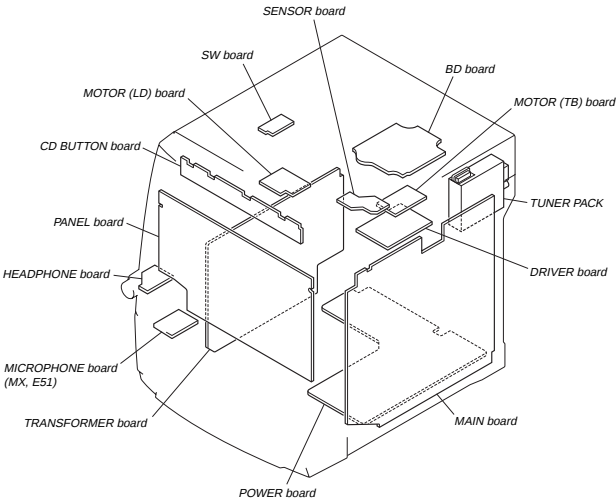
Note on Schematic Diagram:

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

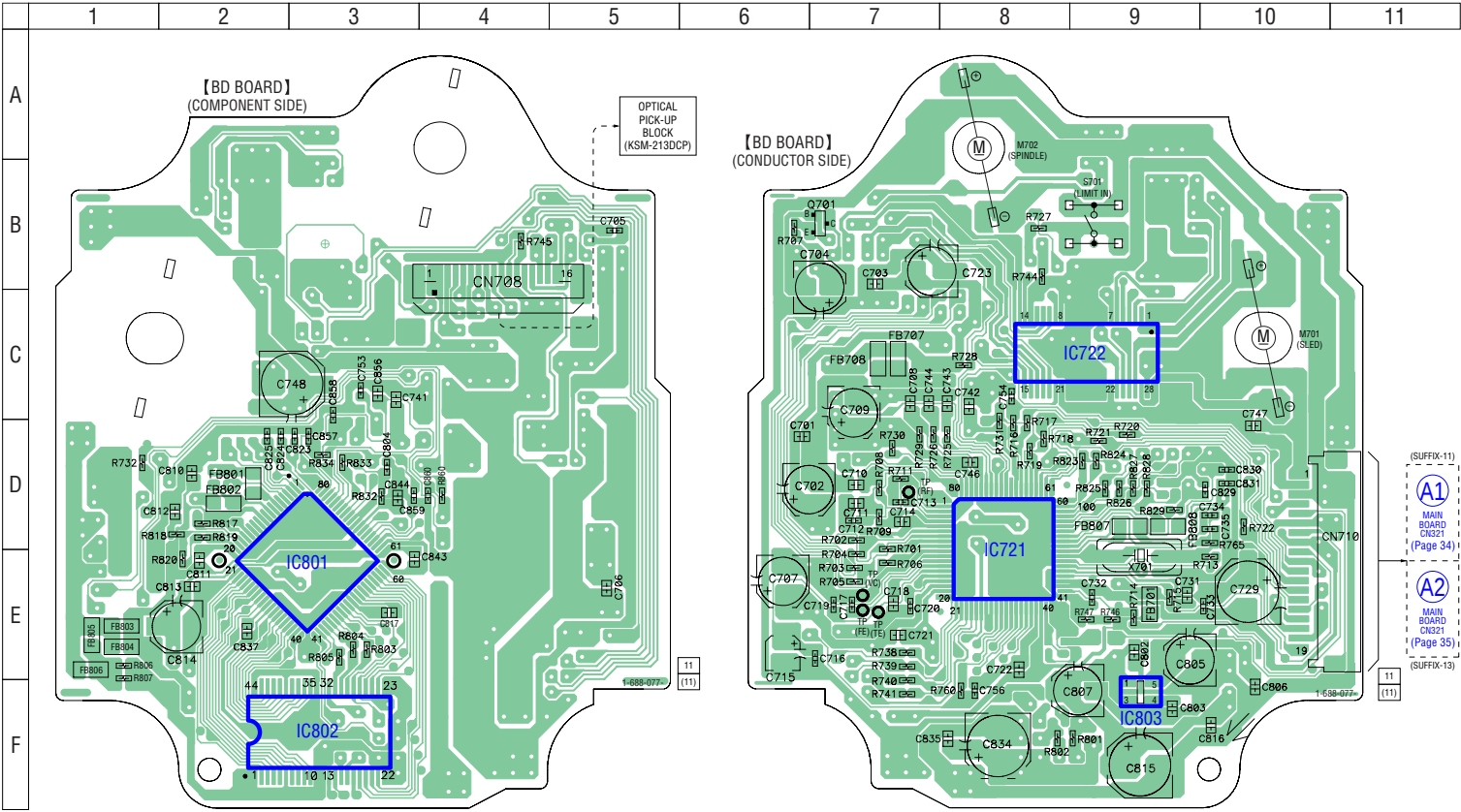
Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- --- : B+ Line.
- --- : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
() : CD PLAY
{ } : TAPE PLAY (DECK-A)
{ } : TAPE PLAY (DECK-B)
<< >> : REC
* : Impossible to measure
- Voltages are taken with a VOM (input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path:
◻ : TUNER (FM/AM)
◻ : CD PLAY
◻ : TAPE PLAY (DECK-A)
◻ : TAPE PLAY (DECK-B)
◻ : REC
◻ : MD (VIDEO) IN
◻ : MIC INPUT
- Abbreviation
E51 : Chilean and Peluvian models
MX : Mexican model

• Circuit Boards Location



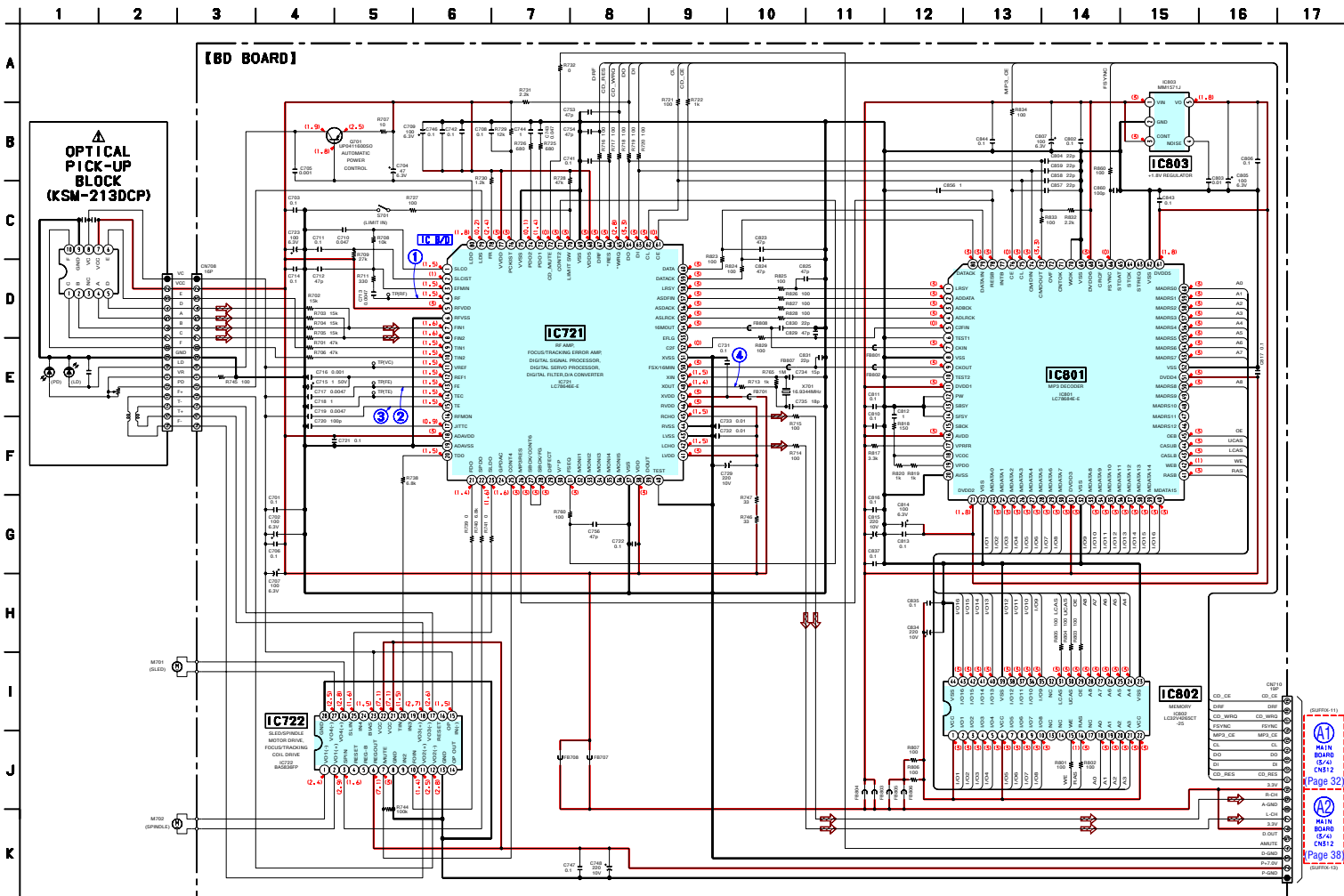
6-5. PRINTED WIRING BOARD – BD Board – • See page 25 for Circuit Boards Location.  :Uses unleaded solder.



• Semiconductor Location

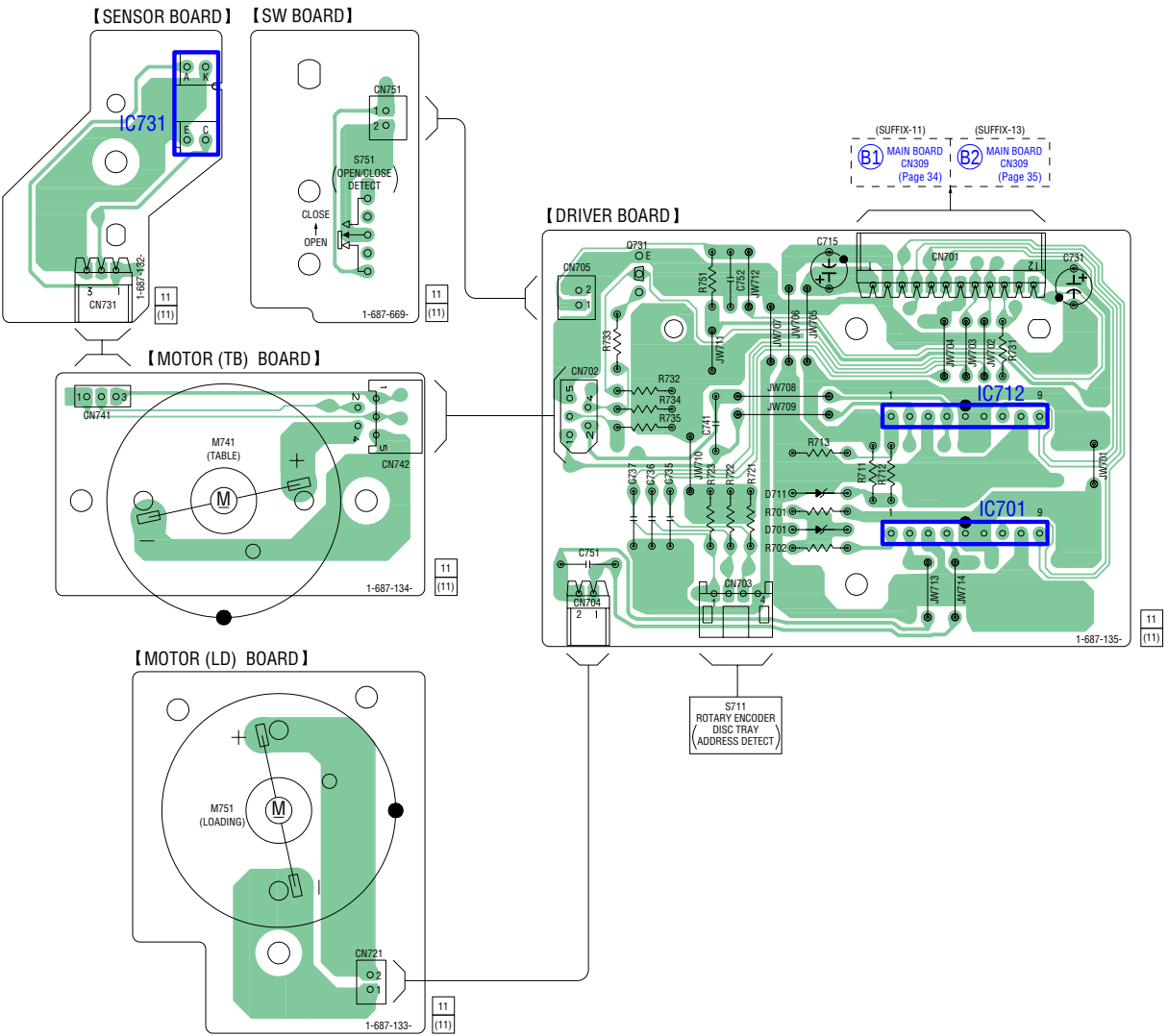
Ref. No.	Location
IC721	D-8
IC722	C-9
IC801	E-3
IC802	F-3
IC803	F-9
Q701	B-7

6-6. SCHEMATIC DIAGRAM – BD Board – • See page 54 for IC Block Diagrams. • See page 54 for Waveforms.

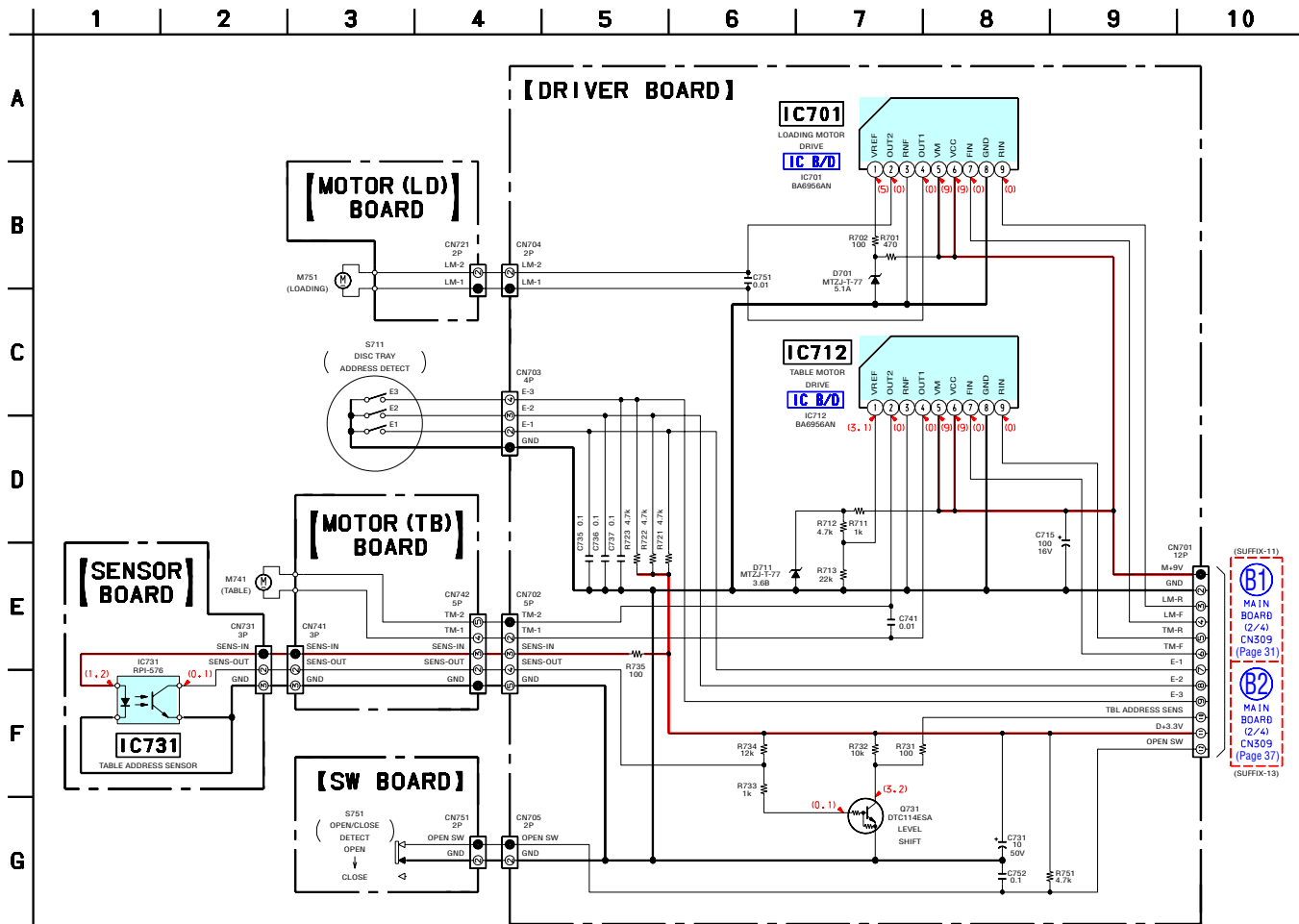


The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

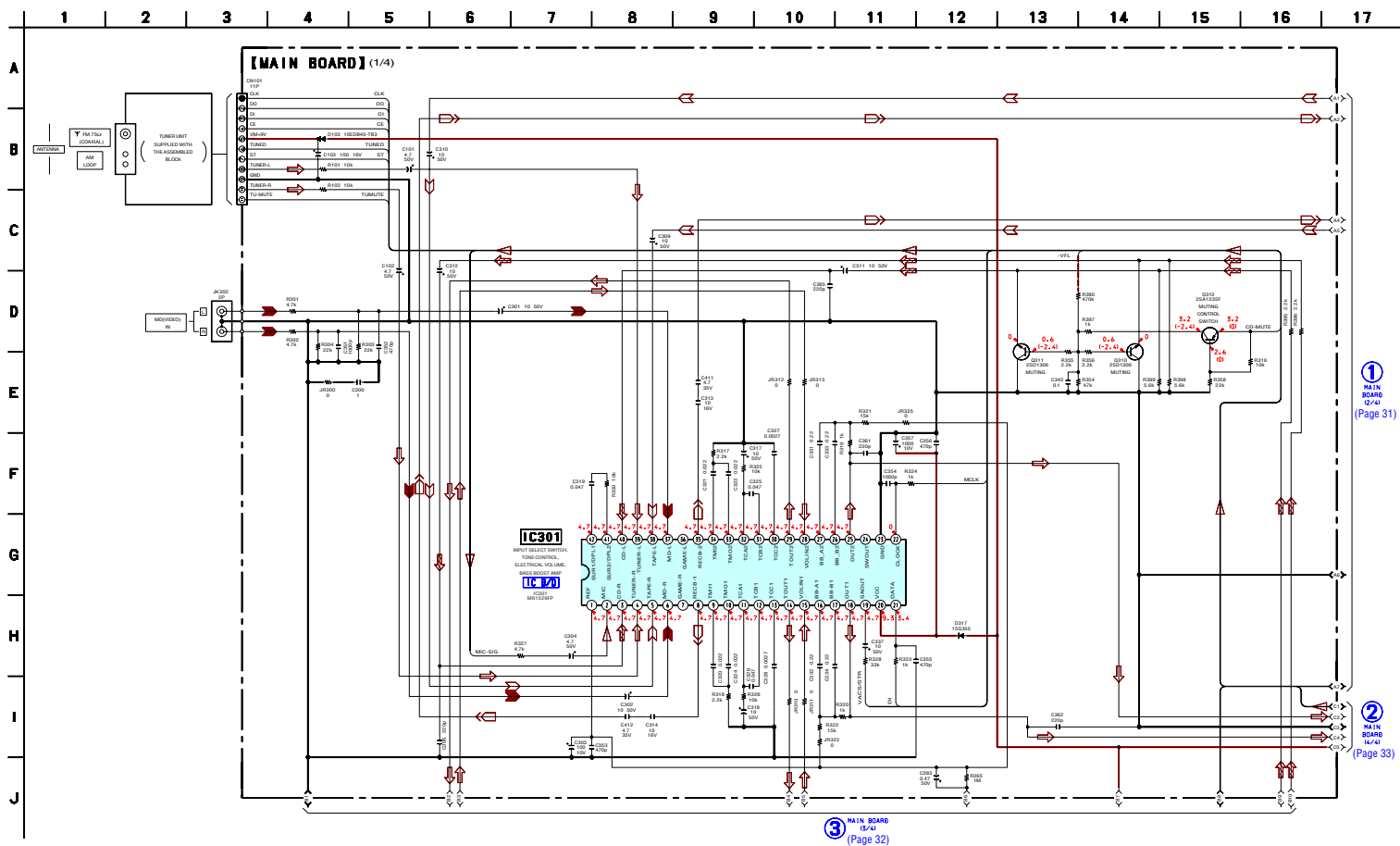
6-7. PRINTED WIRING BOARDS – CHANGER Section – • See page 25 for Circuit Boards Location. :Uses unleaded solder.



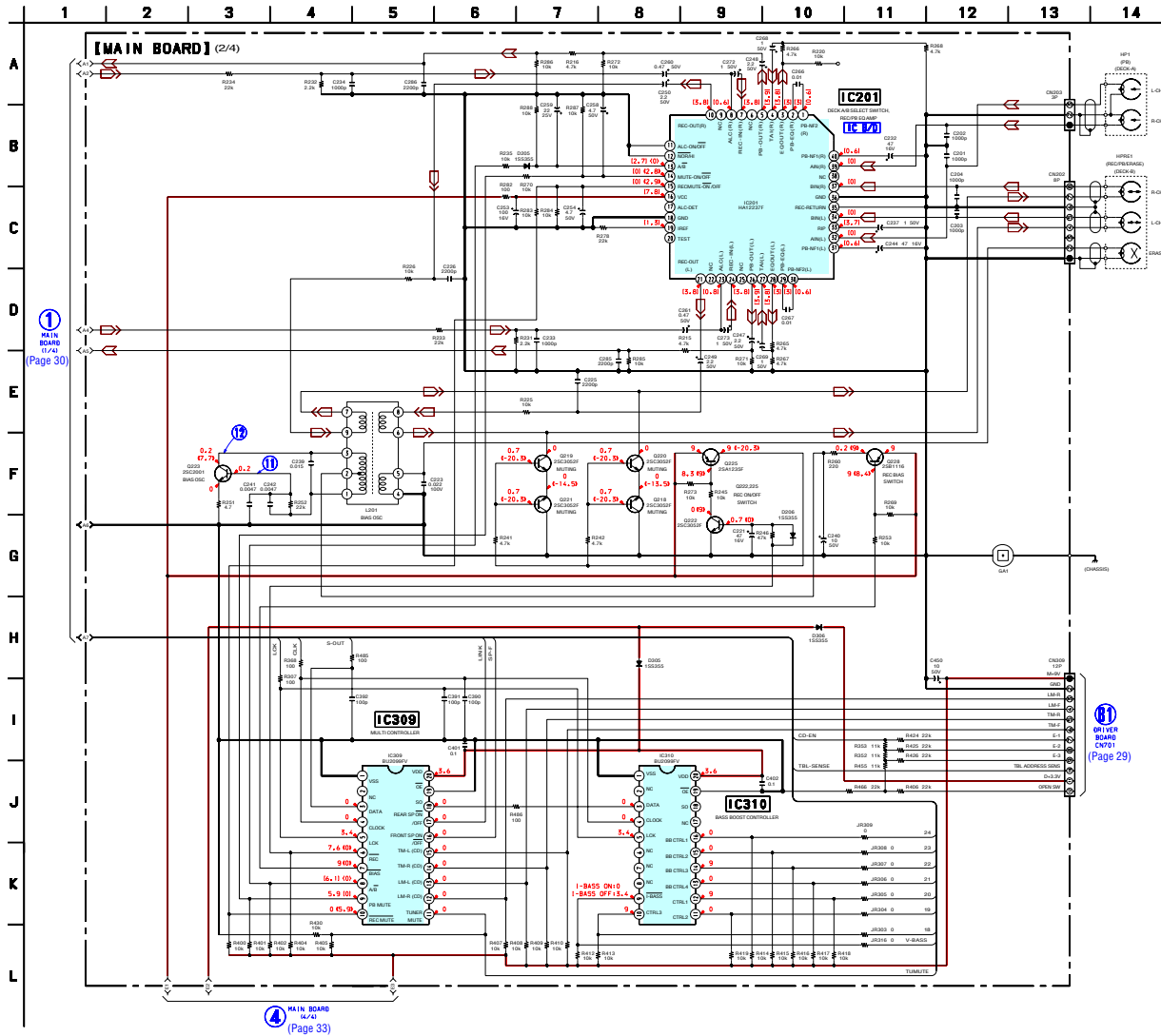
6-8. SCHEMATIC DIAGRAM – CHANGER Section – * See page 54 for IC Block Diagrams.



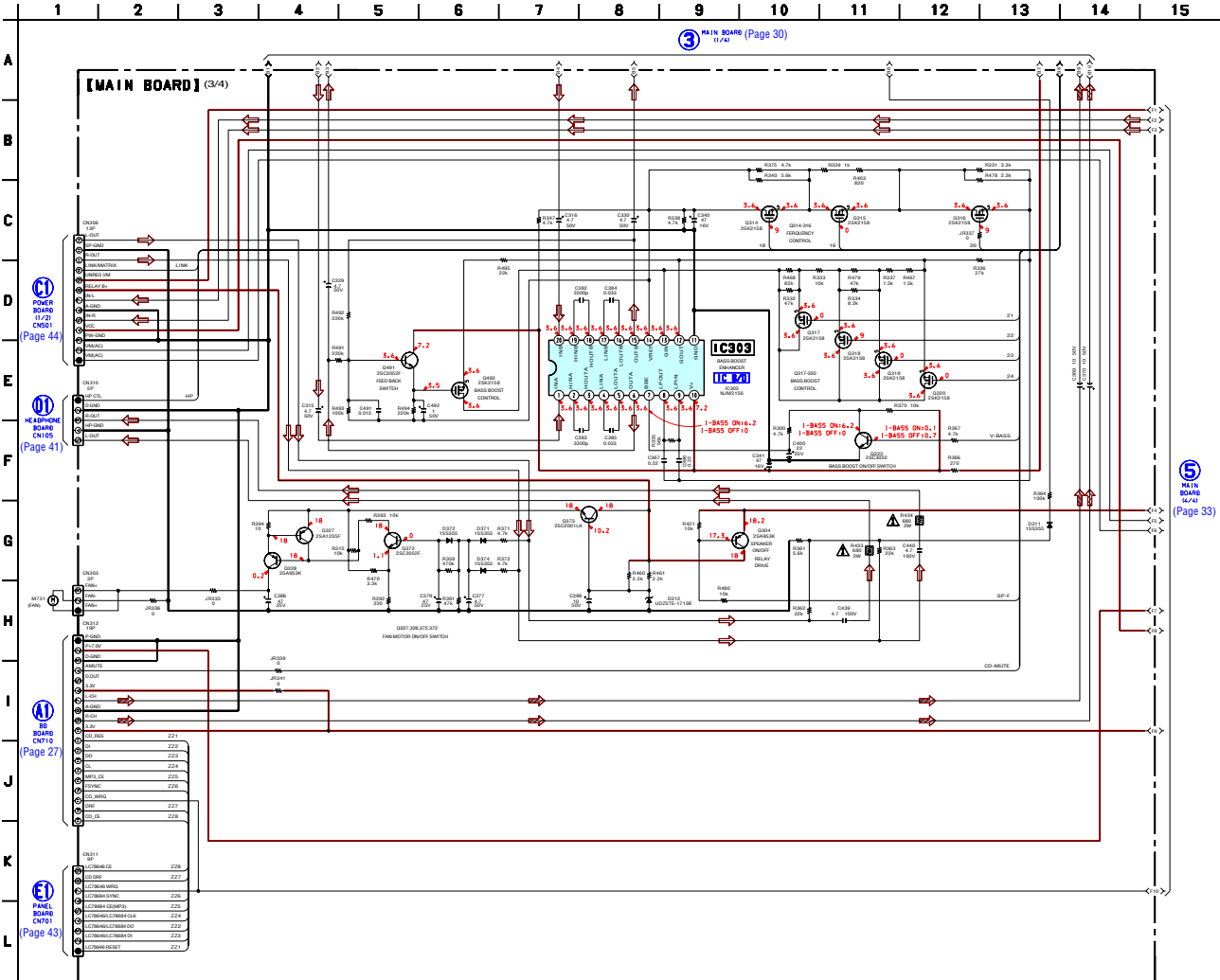
6-9. SCHEMATIC DIAGRAM – MAIN Board (1/4) (Suffix-11) – • See page 54 for IC Block Diagram.



6-10. SCHEMATIC DIAGRAM – MAIN Board (2/4) (Suffix-11) – • See page 54 for IC Block Diagram. • See page 54 for Waveforms.



6-11. SCHEMATIC DIAGRAM – MAIN Board (3/4) (Suffix-11) – • See page 54 for IC Block Diagram.



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

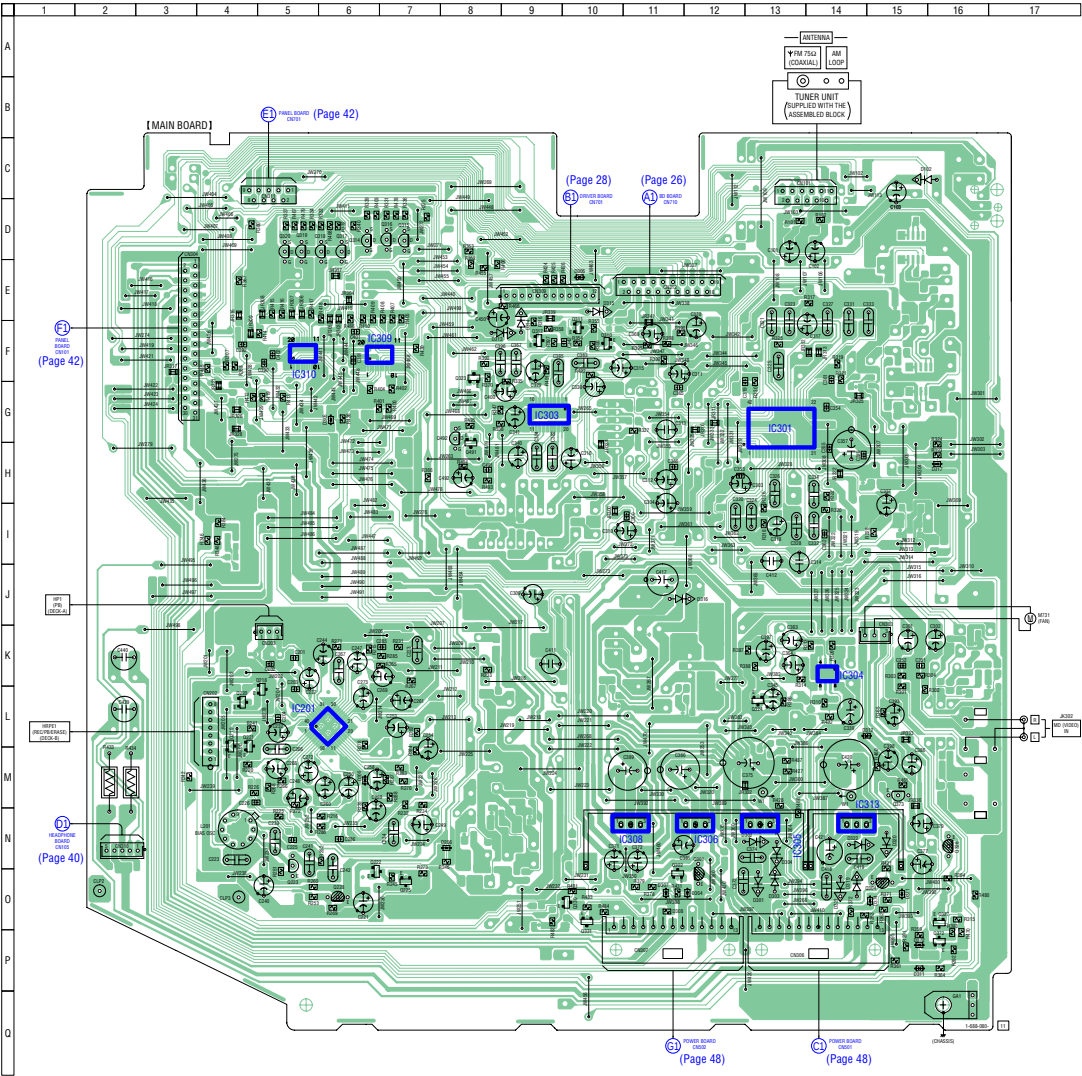
5
MAIN
BOARD
(3/4)
Page 32)



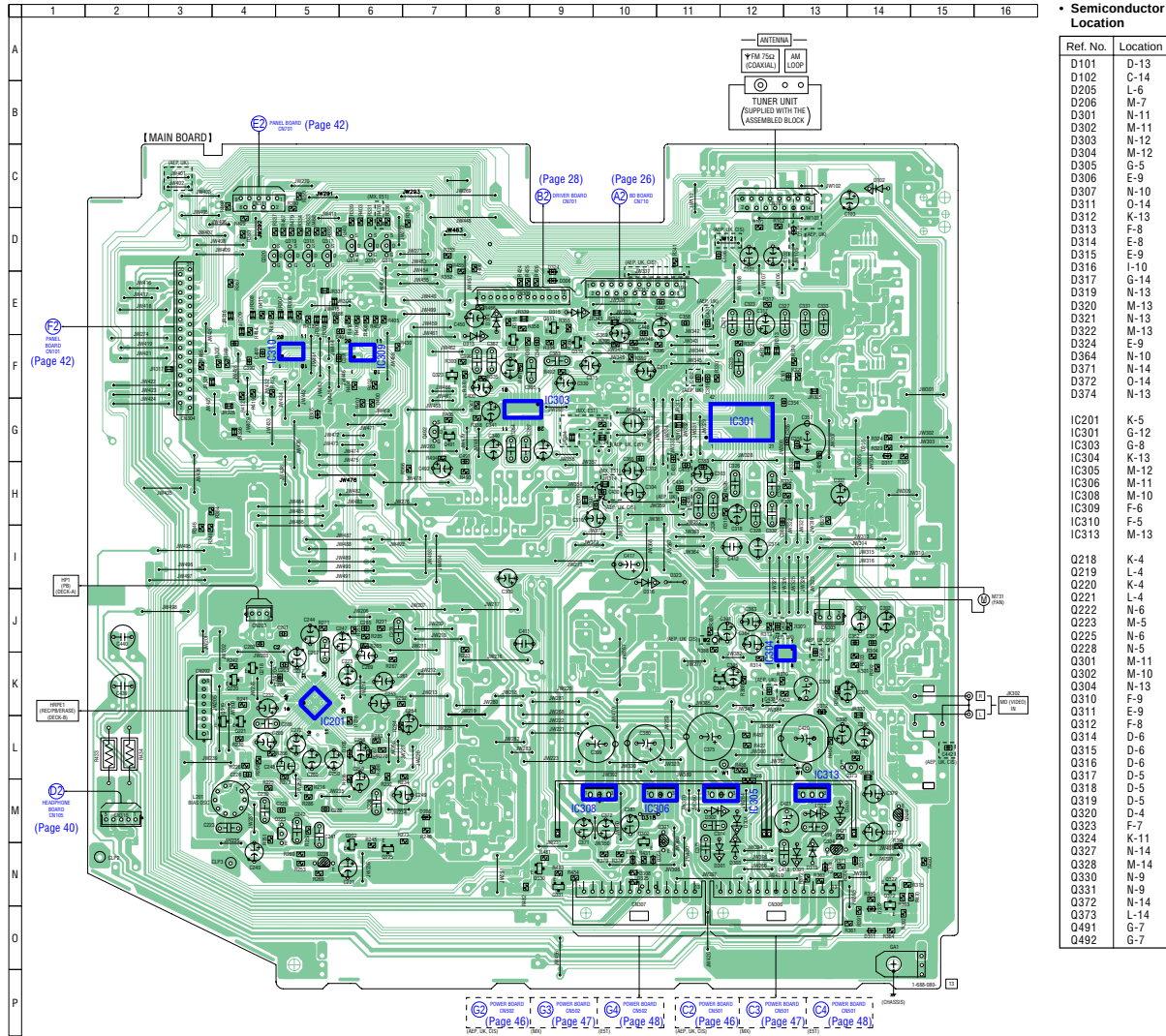
6-13. PRINTED WIRING BOARD – MAIN Board (Suffix-11) – • See page 25 for Circuit Boards Location.  :Uses unleaded solder.

• Semiconductor Location

Ref. No.	Location
D102	C-16
D205	M-6
D206	N-8
D301	O-13
D302	N-13
D303	O-13
D304	N-13
D305	G-6
D306	E-10
D307	O-11
D311	P-15
D312	L-15
D313	F-8
D314	F-9
D315	E-10
D316	J-11
D317	H-16
D319	O-14
D320	N-15
D321	O-14
D322	N-14
D364	O-12
D371	O-15
D372	P-15
D374	O-15
IC201	L-6
IC301	G-13
IC303	G-9
IC304	K-14
IC305	N-13
IC306	N-12
IC308	N-11
IC309	F-6
IC310	F-5
IC313	N-14
Q218	L-5
Q219	L-4
Q220	L-4
Q221	L-4
Q222	O-6
Q223	N-5
Q225	O-7
Q228	O-6
Q301	O-12
Q302	O-11
Q304	O-15
Q310	F-10
Q311	F-10
Q312	F-9
Q314	D-6
Q315	D-7
Q316	D-7
Q317	D-6
Q318	D-6
Q319	D-5
Q320	D-5
Q323	F-8
Q324	L-13
Q327	O-16
Q328	N-16
Q330	O-10
Q331	O-10
Q372	P-16
Q373	M-15
Q491	H-8
Q492	G-8



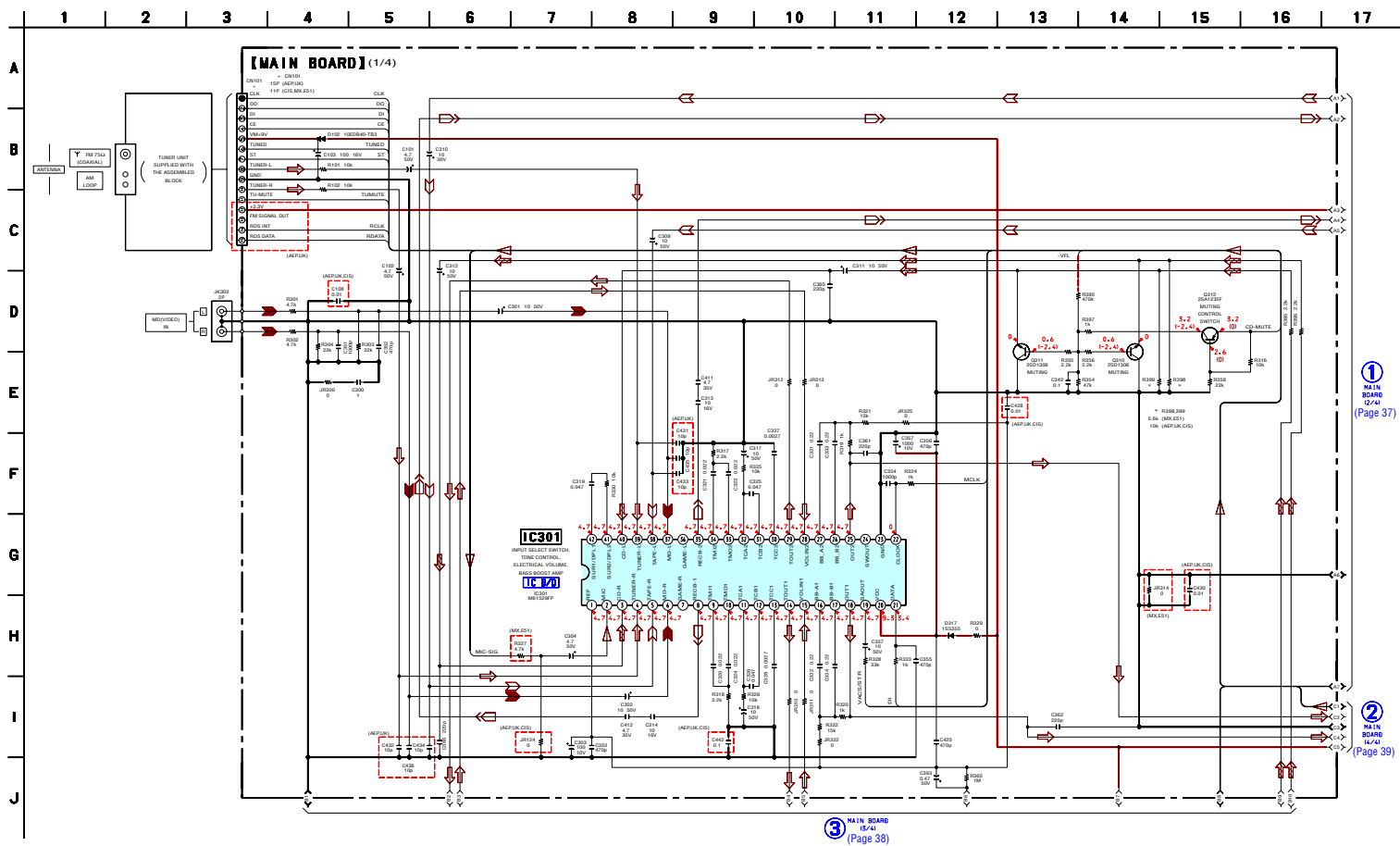
6-14. PRINTED WIRING BOARD – MAIN Board (Suffix-13) – • See page 25 for Circuit Boards Location. : Uses unleaded solder.



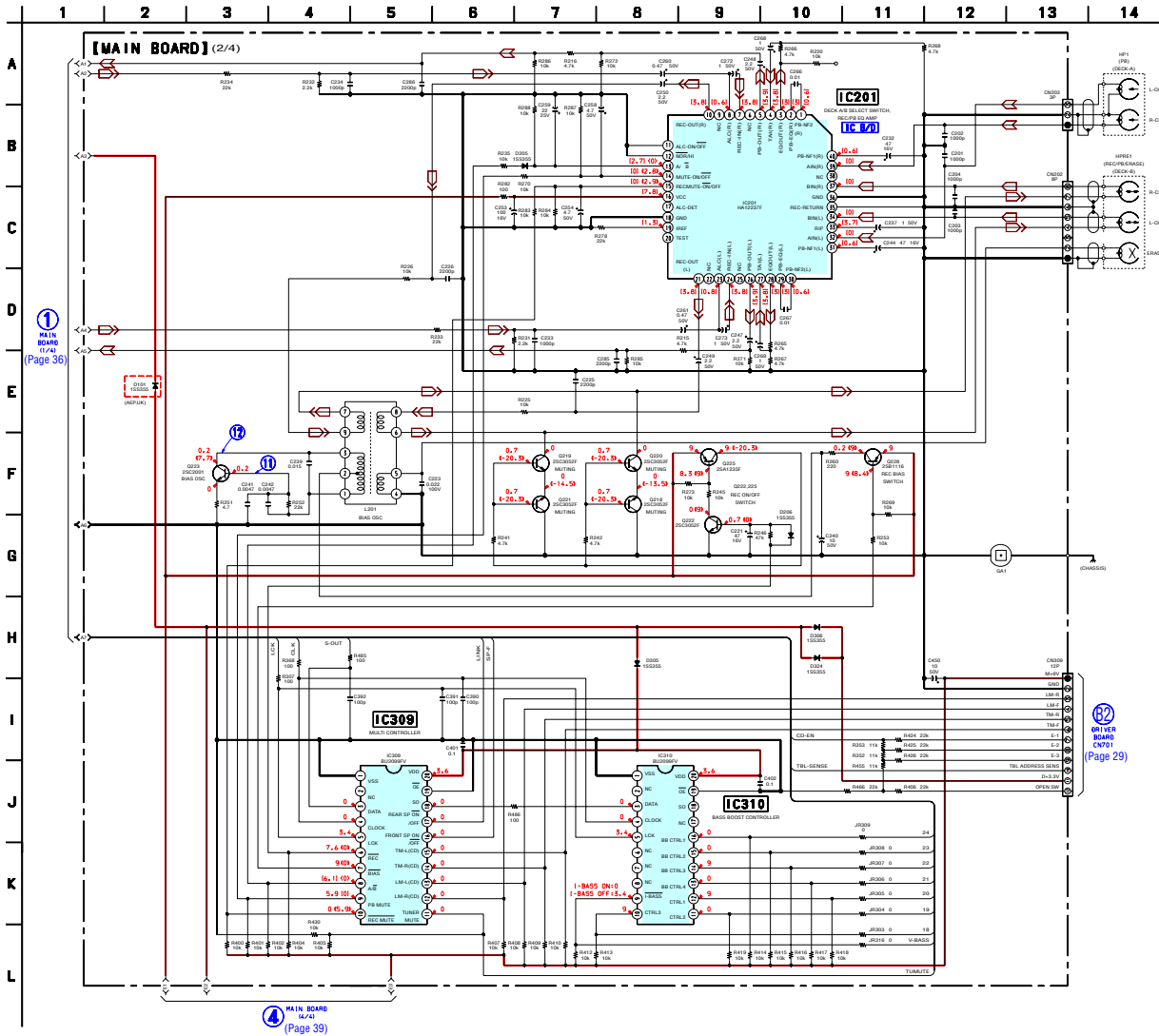
• Semiconductor Location

Ref. No.	Location
D101	D-13
D102	C-14
D205	L-6
D206	M-7
D301	N-11
D302	M-11
D303	N-12
D304	M-12
D305	G-5
D306	E-9
D307	N-10
D311	O-14
D312	K-13
D313	F-8
D314	E-8
D315	E-9
D316	I-10
D317	G-14
D319	N-13
D320	M-13
D321	N-13
D322	M-13
D324	E-9
D364	N-10
D371	N-14
D372	O-14
D374	N-13
IC201	K-5
IC301	G-12
IC303	G-8
IC304	K-13
IC305	M-12
IC306	M-11
IC308	M-10
IC309	F-6
IC310	F-5
IC313	M-13
Q218	K-4
Q219	L-4
Q220	K-4
Q221	L-4
Q222	N-6
Q223	M-5
Q225	N-6
Q228	N-5
Q301	M-11
Q302	M-10
Q304	N-13
Q310	F-9
Q311	E-9
Q312	F-8
Q314	D-6
Q315	D-6
Q316	D-6
Q317	D-5
Q318	D-5
Q319	D-5
Q320	D-4
Q323	F-7
Q324	K-11
Q327	N-14
Q328	M-14
Q330	N-9
Q331	N-9
Q372	N-14
Q373	L-14
Q491	G-7
Q492	G-7

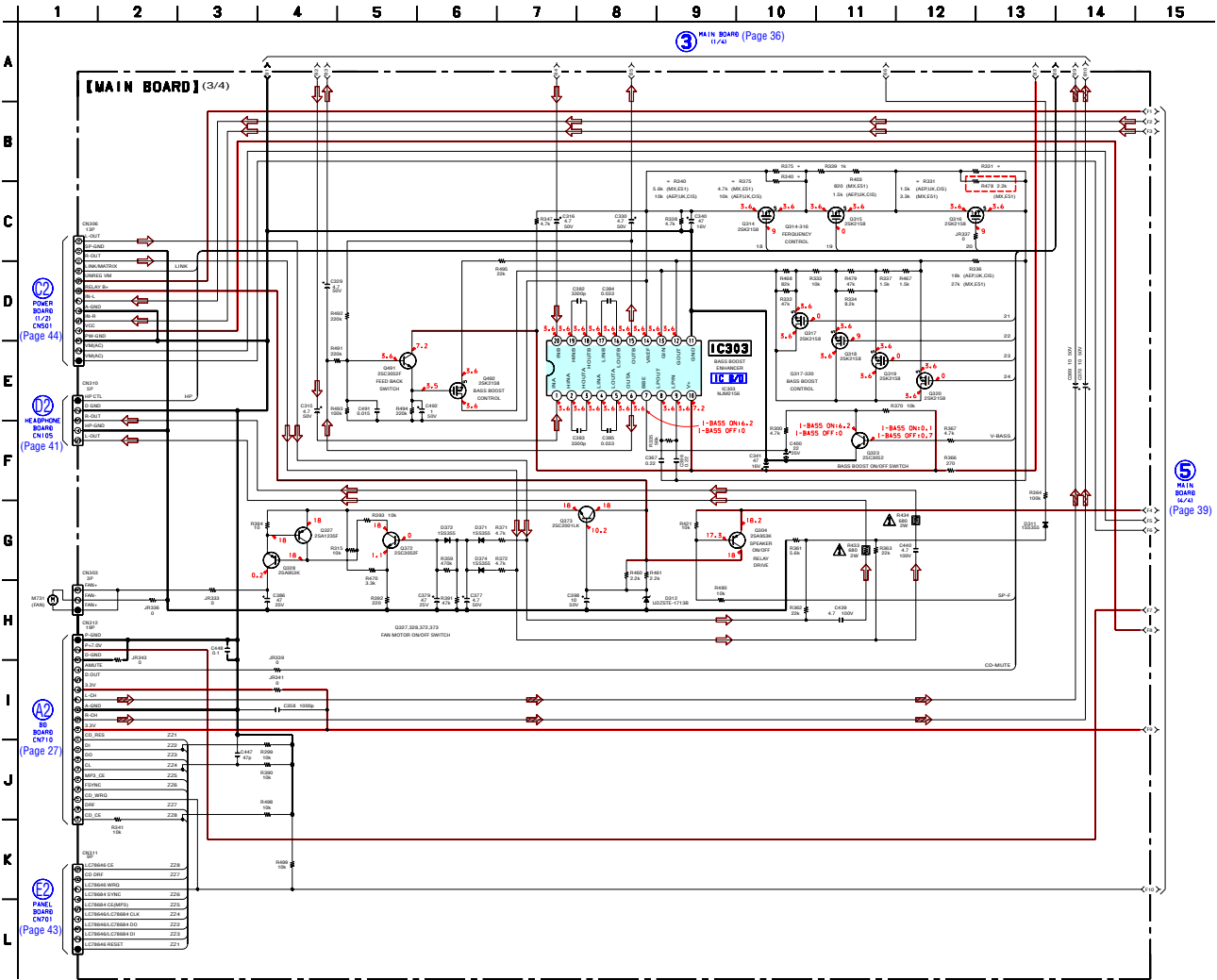
6-15. SCHEMATIC DIAGRAM – MAIN Board (1/4) (Suffix-13) – • See page 54 for IC Block Diagram.



6-16. SCHEMATIC DIAGRAM – MAIN Board (2/4) (Suffix-13) – • See page 54 for IC Block Diagram. • See page 54 for Waveforms.



6-17. SCHEMATIC DIAGRAM – MAIN Board (3/4) (Suffix-13) – • See page 54 for IC Block Diagram.

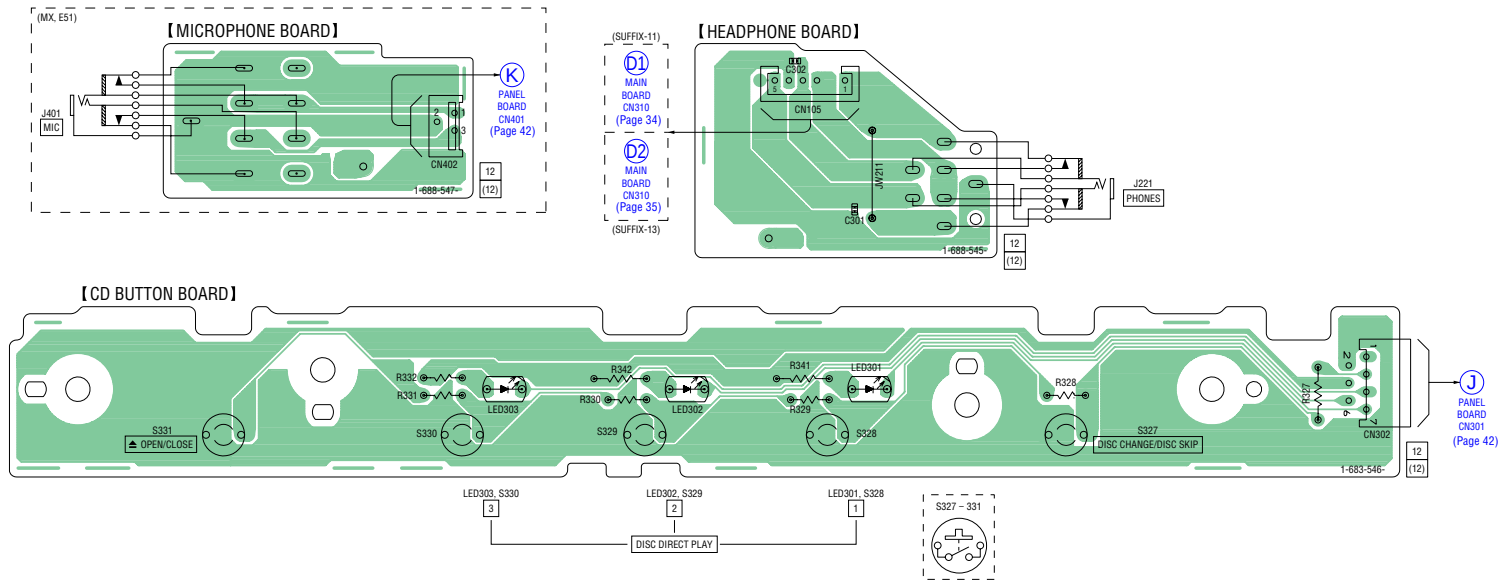


MAIN BOARD (4/4)

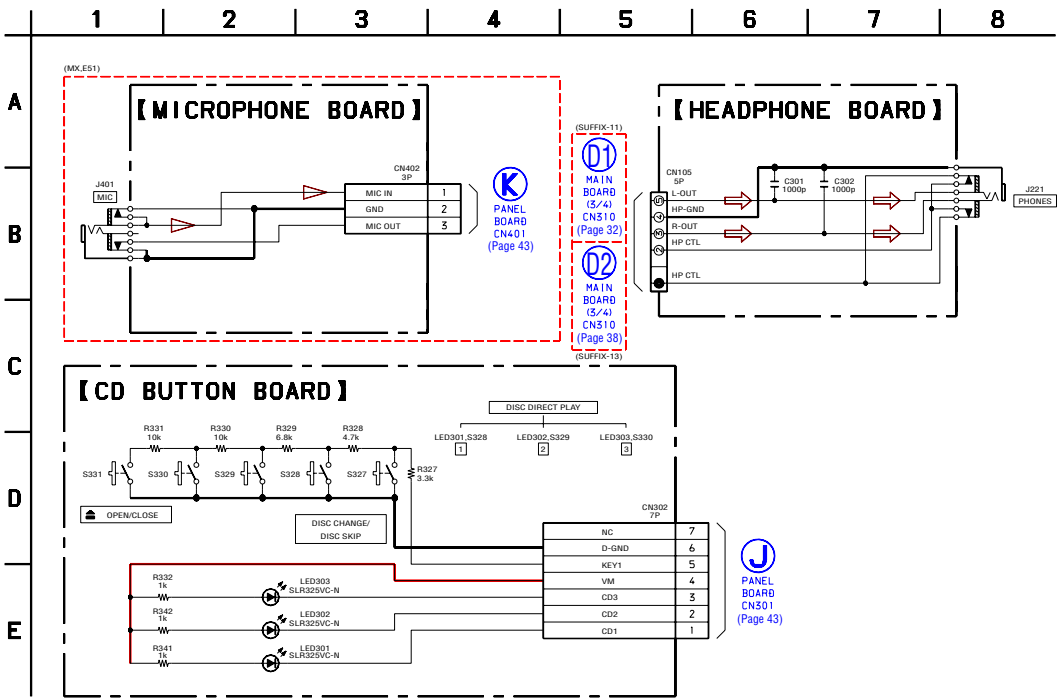
COMPONENTS:

- IC304: BUFFER
- IC305: 10V REGULATOR
- IC306: 10V REGULATOR
- IC308: 10V REGULATOR
- IC313: 10V REGULATOR
- Q301: 2SC1235P
- Q302: 2SC1235P
- Q303: 2SC1235P
- Q304: 2SC1235P
- Q305: 2SC1235P
- Q306: 2SC1235P
- Q307: 2SC1235P
- Q308: 2SC1235P
- Q309: 2SC1235P
- Q310: 2SC1235P
- Q311: 2SC1235P
- Q312: 2SC1235P
- Q313: 2SC1235P
- Q314: 2SC1235P
- Q315: 2SC1235P
- Q316: 2SC1235P
- Q317: 2SC1235P
- Q318: 2SC1235P
- Q319: 2SC1235P
- Q320: 2SC1235P
- Q321: 2SC1235P
- Q322: 2SC1235P
- Q323: 2SC1235P
- Q324: 2SC1235P
- Q325: 2SC1235P
- Q326: 2SC1235P
- Q327: 2SC1235P
- Q328: 2SC1235P
- Q329: 2SC1235P
- Q330: 2SC1235P
- Q331: 2SC1235P
- Q332: 2SC1235P
- Q333: 2SC1235P
- Q334: 2SC1235P
- Q335: 2SC1235P
- Q336: 2SC1235P
- Q337: 2SC1235P
- Q338: 2SC1235P
- Q339: 2SC1235P
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- Q366: 2SC1235P
- Q367: 2SC1235P
- Q368: 2SC1235P
- Q369: 2SC1235P
- Q370: 2SC1235P
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- Q400: 2SC1235P
- Q401: 2SC1235P
- Q402: 2SC1235P
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- Q497: 2SC1235P
- Q498: 2SC1235P
- Q499: 2SC1235P
- Q500: 2SC1235P
- Q501: 2SC1235P

6-19. PRINTED WIRING BOARDS – CD BUTTON/HEADPHONE/MICROPHONE Boards – • See page 25 for Circuit Boards Location. :Uses unleaded solder.



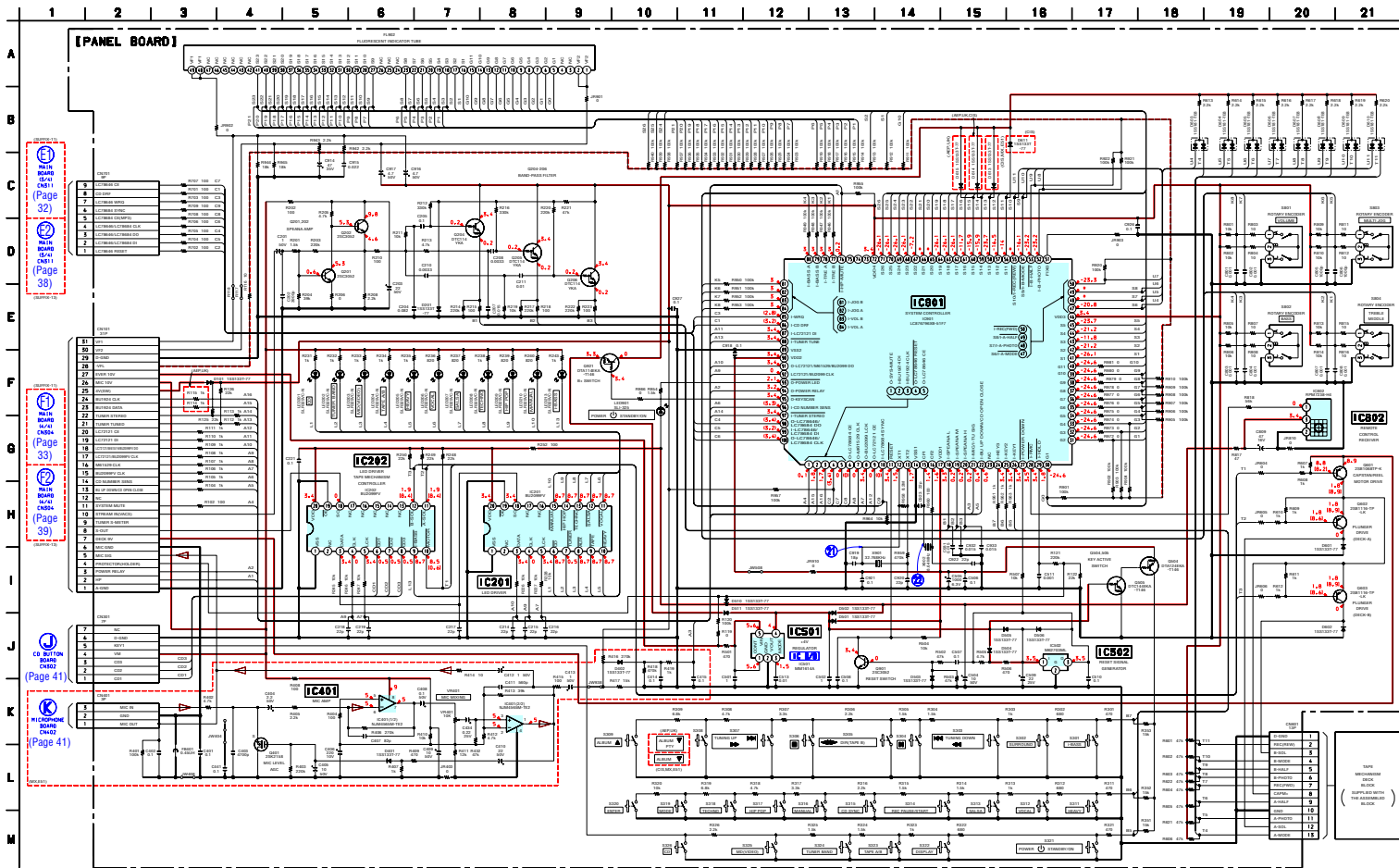
6-20. SCHEMATIC DIAGRAM - CD BUTTON/HEADPHONE/MICROPHONE Boards -



1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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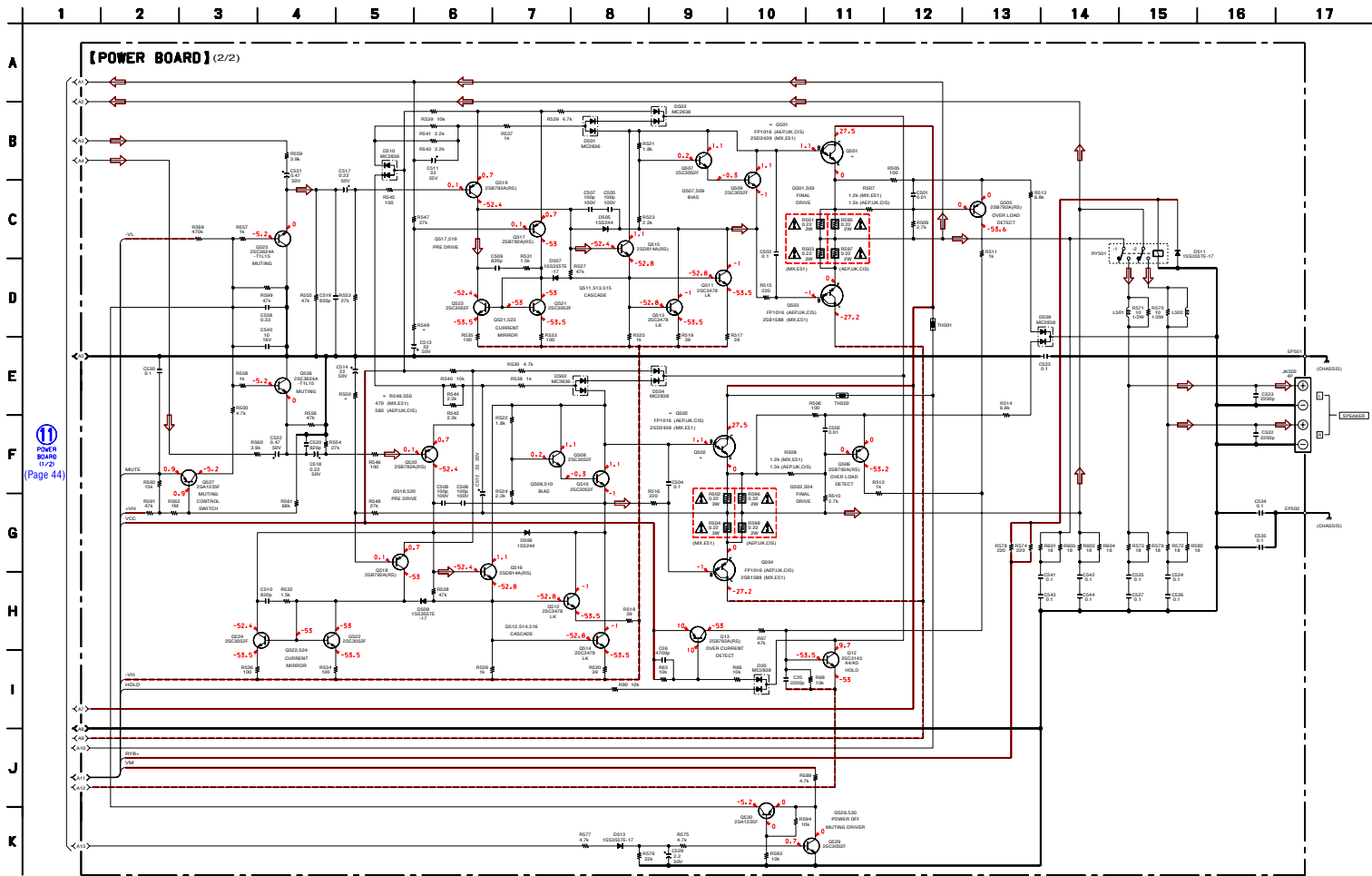
42 42

6-22. SCHEMATIC DIAGRAM – PANEL Board – • See page 54 for IC Block Diagram. • See page 54 for Waveforms.



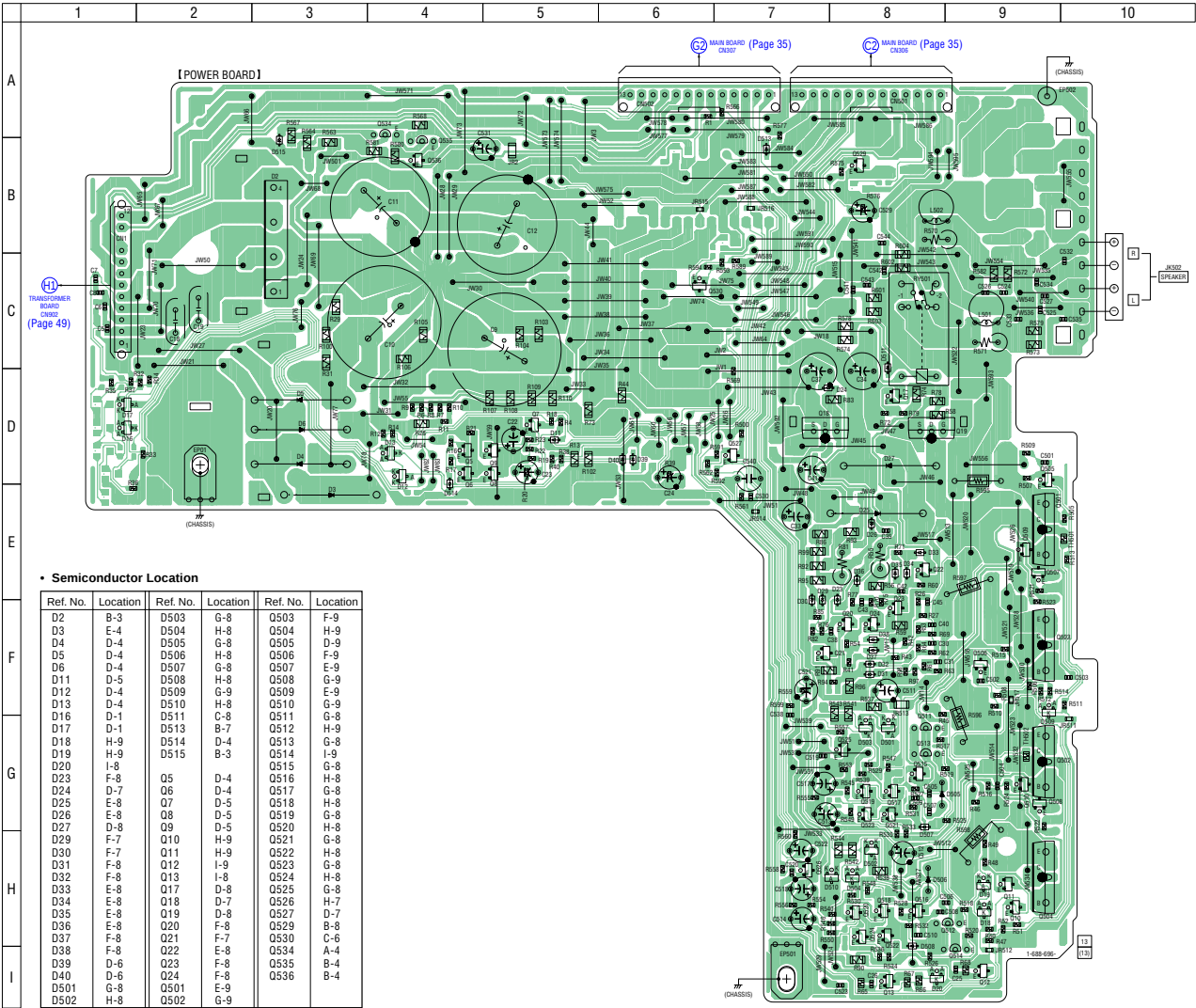


6-24. SCHEMATIC DIAGRAM – POWER Board (2/2) –

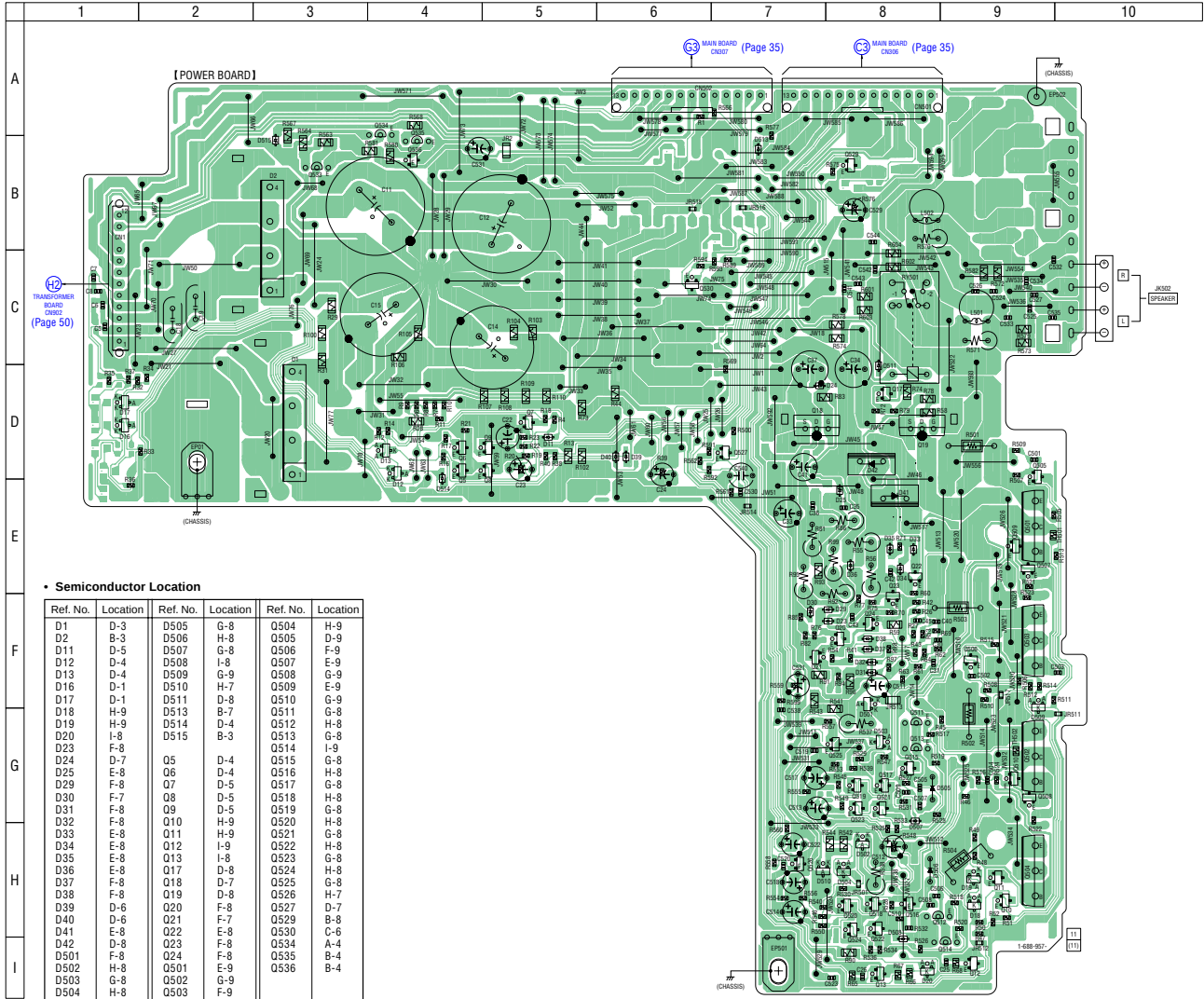


The components identified by mark  or dotted line with mark are critical for safety.
Replace only with part number specified.

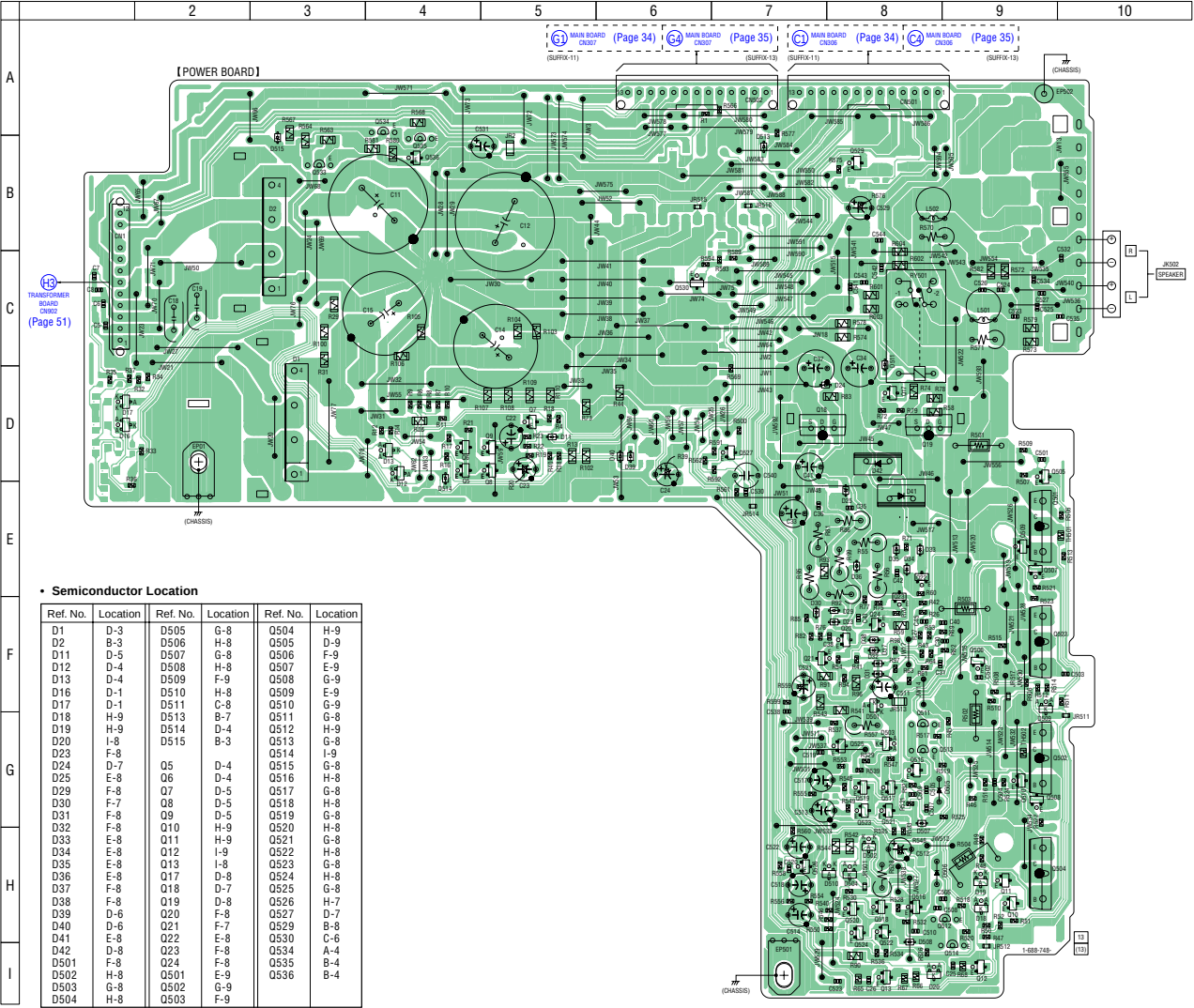
6-25. PRINTED WIRING BOARD – POWER Board – (AEP, UK, CIS models) • See page 25 for Circuit Boards Location.  :Uses unleaded solder.



6-26. PRINTED WIRING BOARD – POWER Board – (MX model) • See page 25 for Circuit Boards Location.  :Uses unleaded solder.

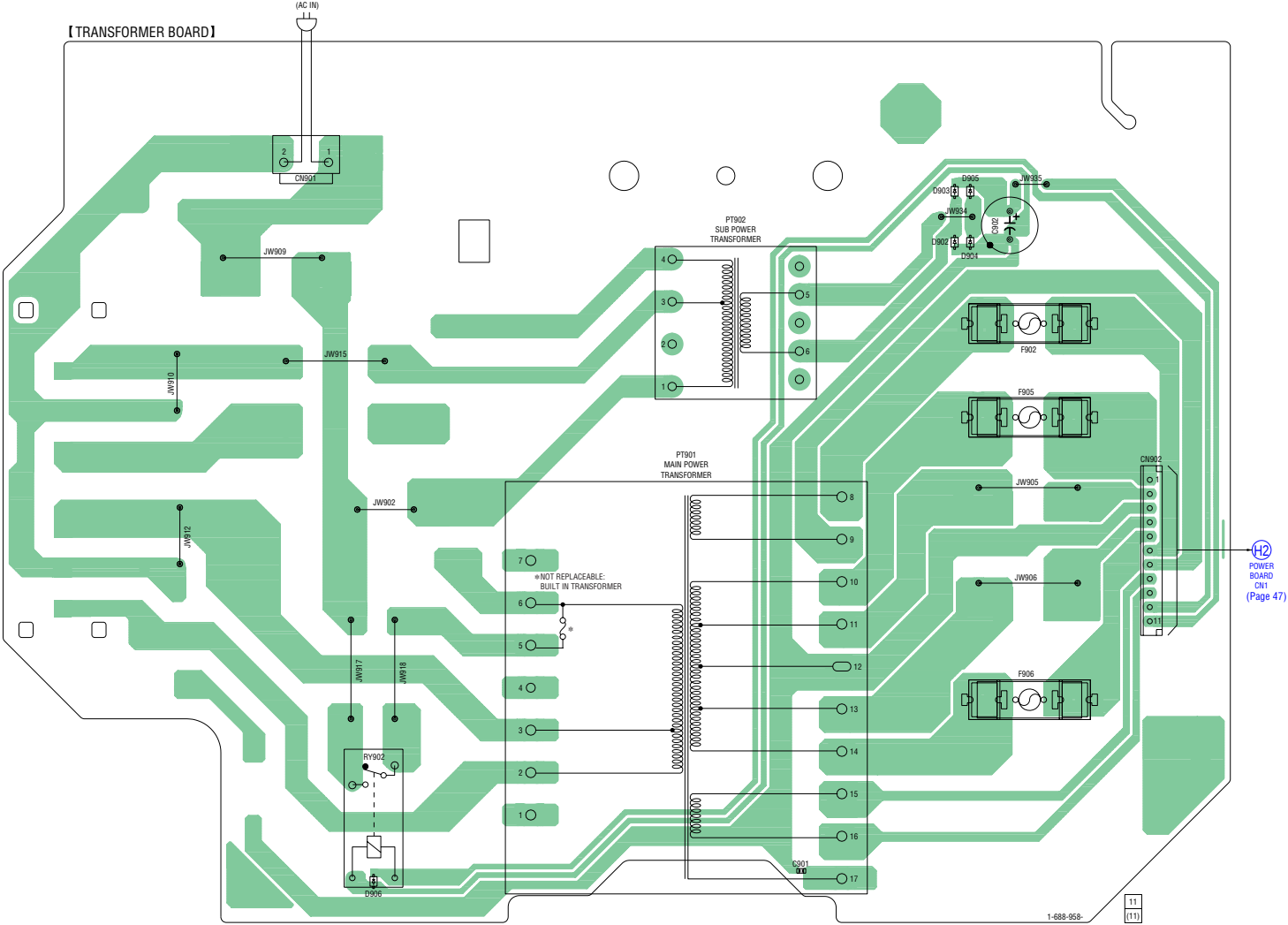


6-27. PRINTED WIRING BOARD – POWER Board – (E51 model) • See page 25 for Circuit Boards Location.  :Uses unleaded solder.

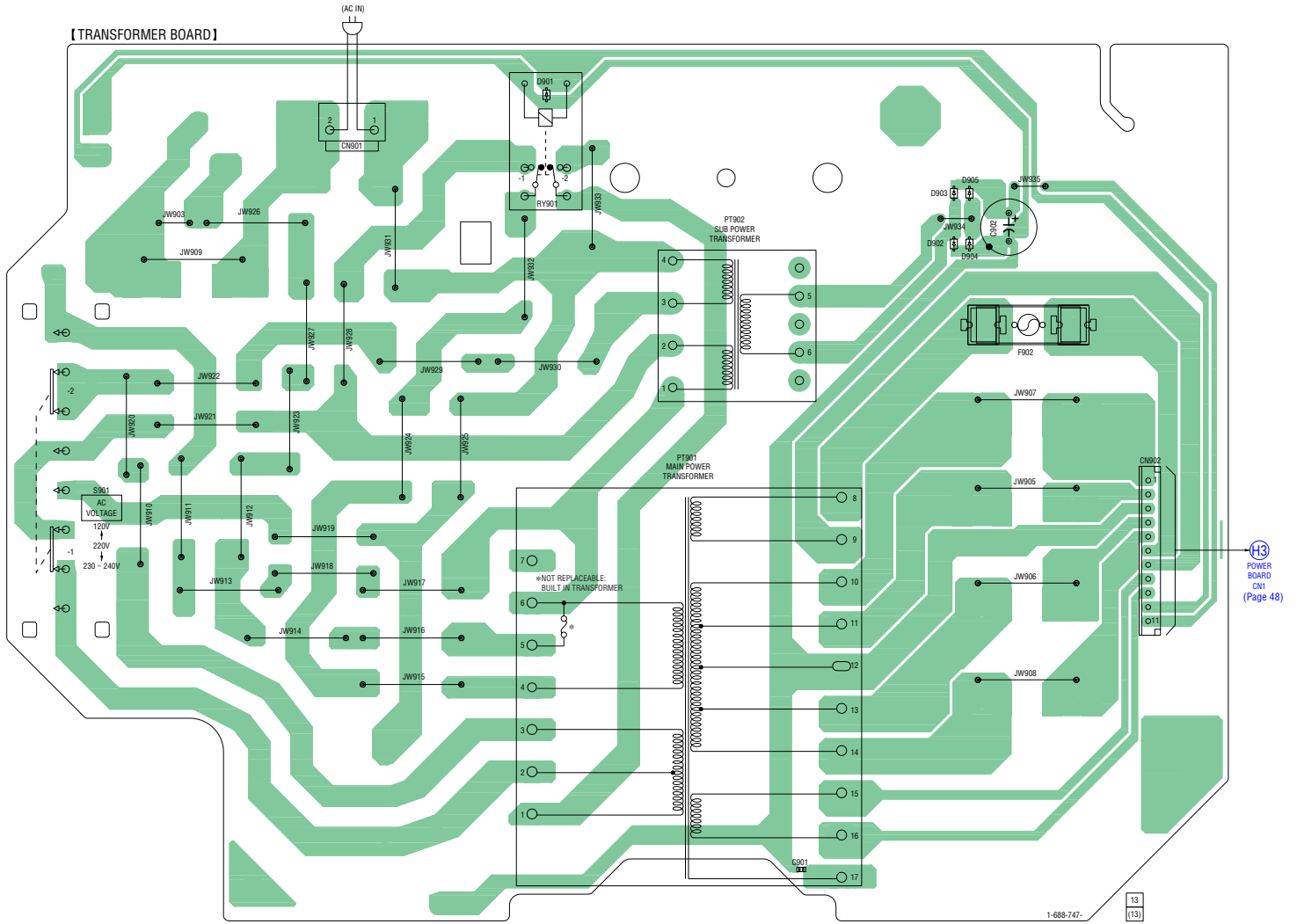




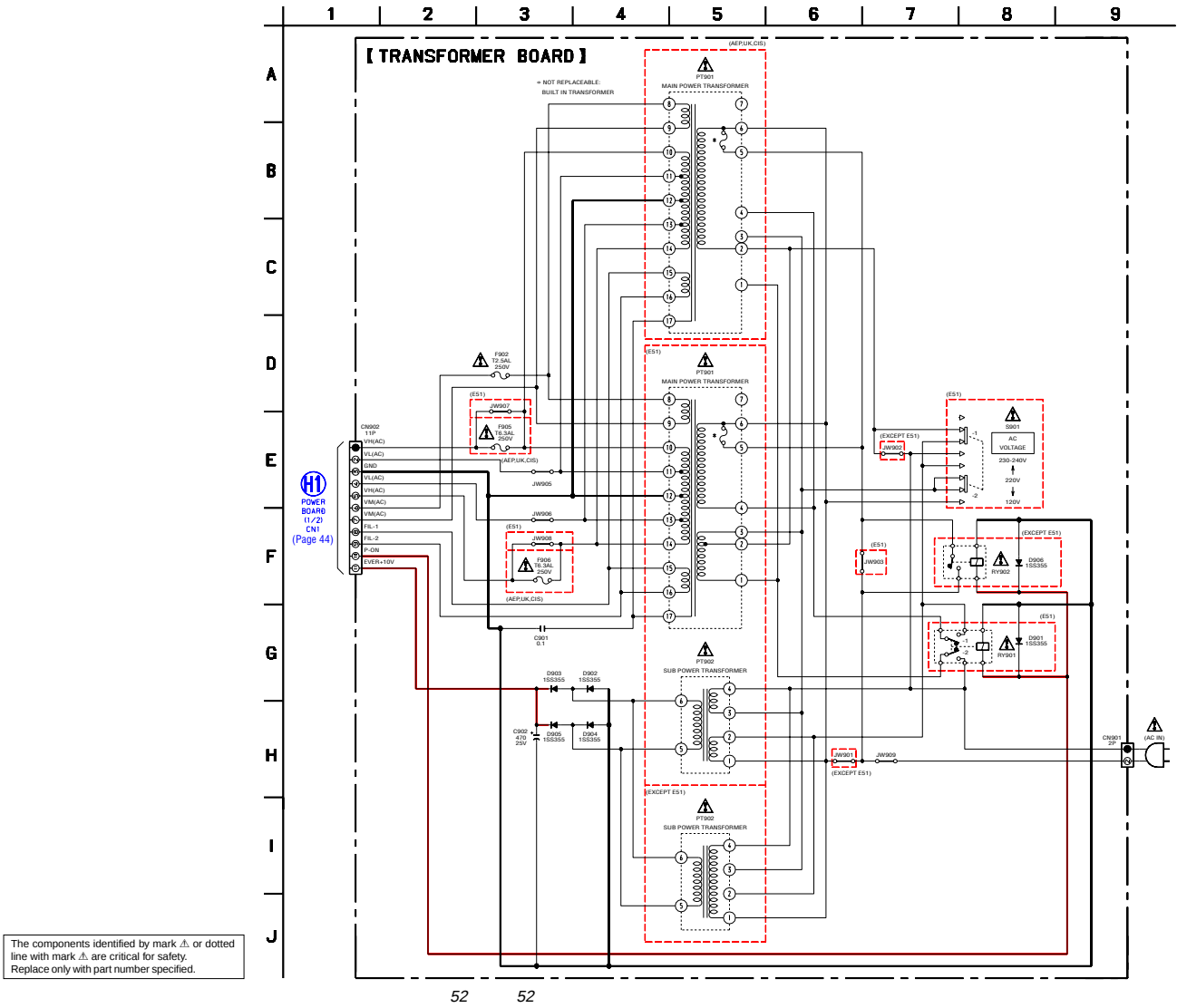
6-29. PRINTED WIRING BOARD – TRANSFORMER Board – (MX model) • See page 23 for Circuit Boards Location. :Uses unleaded solder.



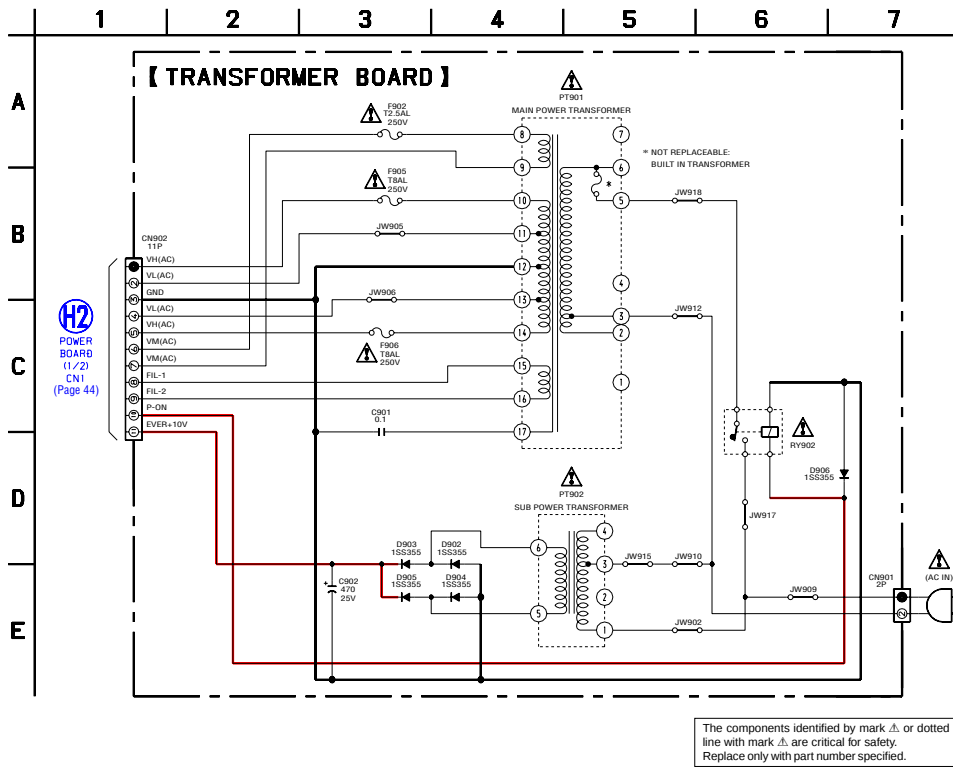
6-30. PRINTED WIRING BOARD – TRANSFORMER Board – (E51 model) • See page 23 for Circuit Boards Location. :Uses unleaded solder.



6-31. SCHEMATIC DIAGRAM – TRANSFORMER BOARD – (AEP, UK, CIS, E51 models)



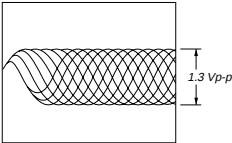
6-32. SCHEMATIC DIAGRAM – TRANSFORMER BOARD – (MX model)



CX-JT7

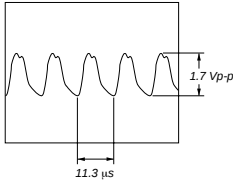
• Waveforms
- BD Board -

① IC721 ③ (RF) (CD Play Mode)



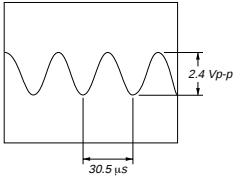
- MAIN Board -

① Q223 (Base) (REC Mode)

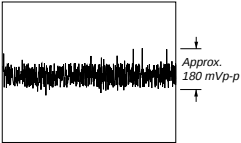


- PANEL Board -

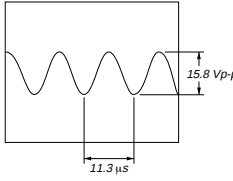
① IC901 ③ (XT1)



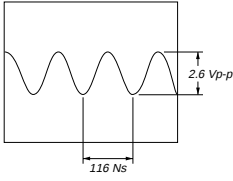
② IC721 ③ (TE) (CD Play Mode)



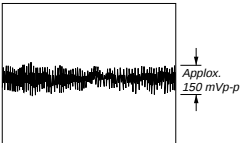
② Q223 (Collector) (REC Mode)



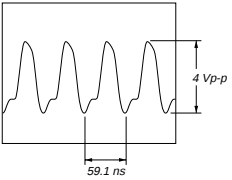
② IC901 ③ (CF1)



③ IC721 ③ (TE) (CD Play Mode)

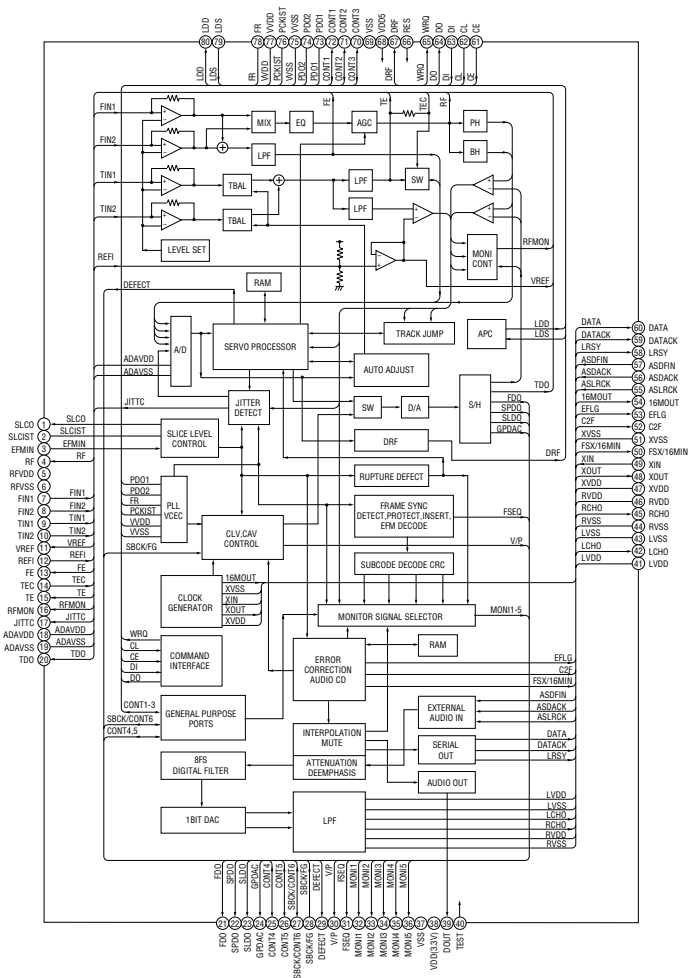


④ IC721 ③ (XOUT)



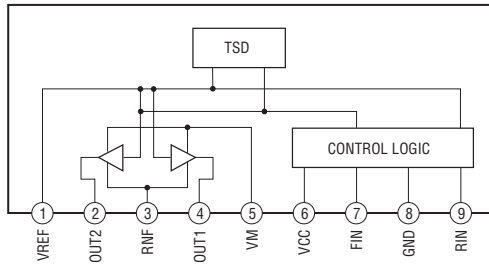
• IC Block Diagrams
- BD Board -

IC721 LC78646E-E



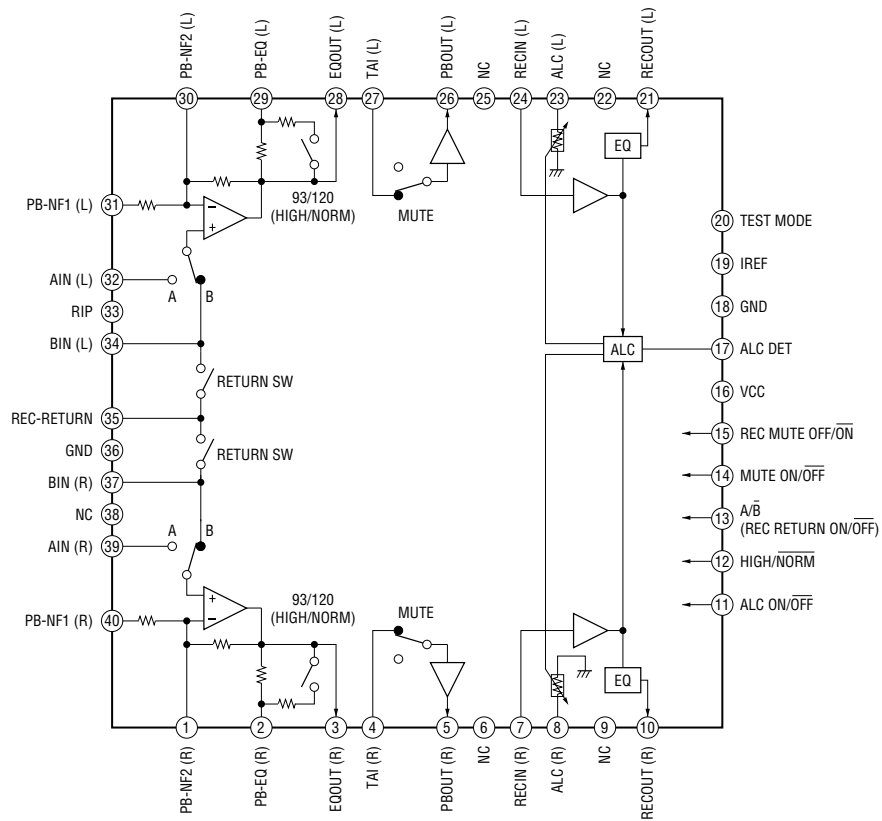
– DRIVER Board –

IC701, 712 BA6956AN

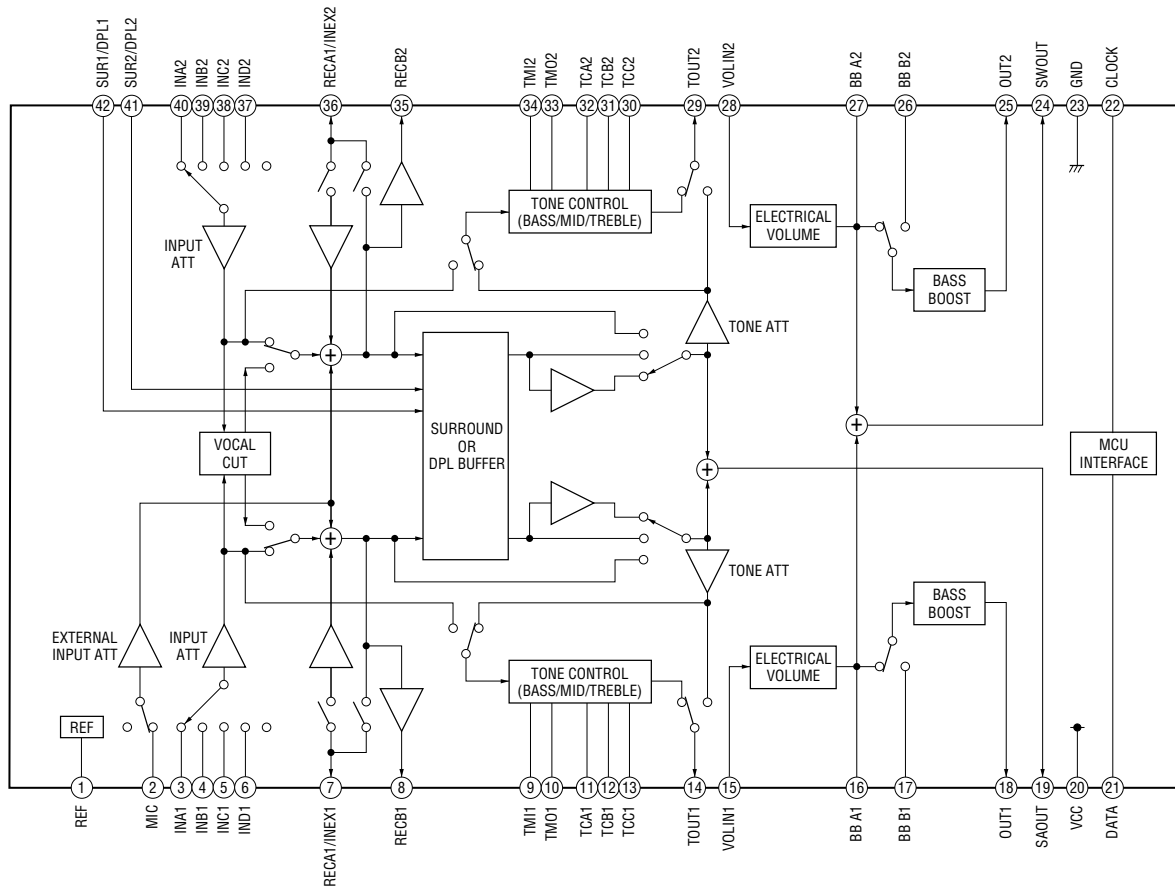


– MAIN Board –

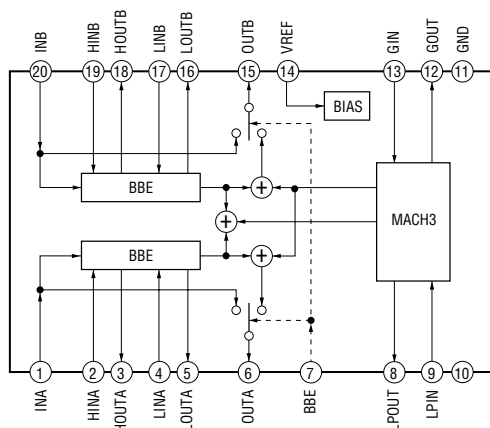
IC201 HA12237F



IC301 M61529FP-D60G

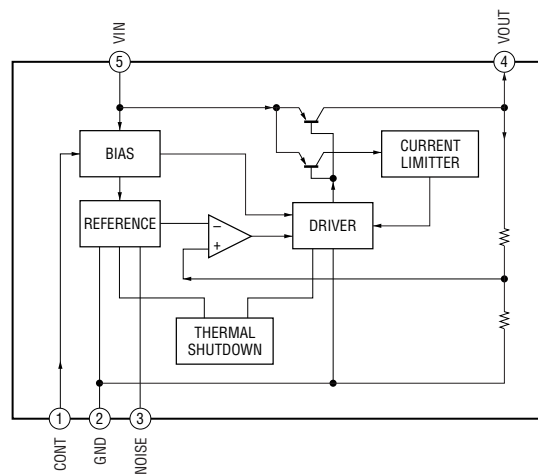


IC303 NJM2156M (TE2)



- PANEL Board -

IC501 MM1614A



6-33. IC PIN FUNCTION DESCRIPTION**• MAIN BOARD IC309 BU2099FV (MULTI CONTROLLER)**

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	NC	—	Not used
3	DATA	I	Serial data input from the tape mechanism controller
4	CLOCK	I	Serial data transfer clock signal input from the system controller
5	LCK	I	Serial data latch pulse clock signal input from the system controller
6	$\overline{\text{REC}}$	O	Recording on/off control signal output terminal “L”: recording
7	$\overline{\text{BIAS}}$	O	Recording bias on/off control signal output terminal “L”: bias on
8	$\overline{\text{A/B}}$	O	Deck-A/B selection signal output to the deck-A/B select switch “L”: deck-B, “H”: deck-A
9	PB MUTE	O	Playback muting on/off control signal output to the recording/playback equalizer amplifier “H”: muting on
10	$\overline{\text{REC MUTE}}$	O	Recording muting on/off control signal output to the recording/playback equalizer amplifier “L”: muting on
11	TUNER MUTE	O	Tuner muting on/off control signal output to the tuner unit “H”: muting on
12	LM-R (CD)	O	Loading motor drive signal output terminal
13	LM-L (CD)	O	Loading motor drive signal output terminal
14	TM-R (CD)	O	Table motor drive signal output terminal
15	TM-L (CD)	O	Table motor drive signal output terminal
16	FRONT SPON/OFF	O	Front speaker on/off relay drive control signal output terminal “L”: front speaker on
17	REAR SPON/OFF	O	Surround speaker on/off relay drive control signal output terminal “H”: surround speaker on Not used
18	SO	O	Serial data output to the bass boost controller
19	$\overline{\text{OE}}$	—	Not used
20	VDD	—	Power supply terminal (+3.3V)

• MAIN BOARD IC310 BU2099FV (BASS BOOST CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	NC	—	Not used
3	DATA	I	Serial data input from the multi controller
4	CLOCK	I	Serial data transfer clock signal input from the system controller
5	LCK	I	Serial data latch pulse clock signal input from the system controller
6 to 8	NC	—	Not used
9	$\overline{\text{I-BASS}}$	O	Bass boost on/off control signal output terminal “L”: bass boost on
10 to 12	CTRL3 to CTRL1	O	Frequency control signal output terminal
13	BB CTRL4	O	Bass boost control signal output terminal “H”: bass boost +10dB
14	BB CTRL3	O	Bass boost control signal output terminal “H”: bass boost +8dB
15	BB CTRL2	O	Bass boost control signal output terminal “H”: bass boost +6dB
16	BB CTRL1	O	Bass boost control signal output terminal “H”: bass boost +5dB
17	NC	—	Not used
18	SO	O	Serial data output terminal Not used
19	$\overline{\text{OE}}$	—	Not used
20	VDD	—	Power supply terminal (+3.3V)

• **PANEL BOARD IC201 BU2099FV (LED DRIVER)**

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	NC	—	Not used
3	DATA	I	Serial data input from the system controller
4	CLOCK	I	Serial data transfer clock signal input from the system controller
5	LCK	I	Serial data latch pulse clock signal input from the system controller
6	$\overline{\text{CD}}$	O	LED drive signal output of the CD indicator “L”: LED on
7	$\overline{\text{TUNER}}$	O	LED drive signal output of the TUNER BAND indicator “L”: LED on
8	$\overline{\text{AUX}}$	O	LED drive signal output of the MD (VIDEO) indicator “L”: LED on
9	$\overline{\text{TAPE}}$	O	LED drive signal output of the TAPE A/B indicator “L”: LED on
10	$\overline{\text{HEAVY}}$	O	LED drive signal output of the HEAVY indicator “L”: LED on
11	$\overline{\text{VOCAL}}$	O	LED drive signal output of the VOCAL indicator “L”: LED on
12	$\overline{\text{SALSA}}$	O	LED drive signal output of the SALSA indicator “L”: LED on
13	$\overline{\text{TECHNO}}$	O	LED drive signal output of the TECHNO indicator “L”: LED on
14	$\overline{\text{HIP HOP}}$	O	LED drive signal output of the HIP HOP indicator “L”: LED on
15	$\overline{\text{MANUAL}}$	O	LED drive signal output of the MANUAL indicator “L”: LED on
16, 17	NC	—	Not used
18	SO	O	Serial data output to the tape mechanism controller
19	$\overline{\text{OE}}$	—	Not used
20	VDD	—	Power supply terminal (+3.3V)

• **PANEL BOARD IC202 BU2099FV (LED DRIVER, TAPE MECHANISM CONTROLLER)**

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	NC	—	Not used
3	DATA	I	Serial data input from the LED driver
4	CLOCK	I	Serial data transfer clock signal input from the system controller
5	LCK	I	Serial data latch pulse clock signal input from the system controller
6	$\overline{\text{CD1}}$	O	LED drive signal output of the DISC DIRECT PLAY 1 indicator “L”: LED on
7	$\overline{\text{CD2}}$	O	LED drive signal output of the DISC DIRECT PLAY 2 indicator “L”: LED on
8	$\overline{\text{CD3}}$	O	LED drive signal output of the DISC DIRECT PLAY 3 indicator “L”: LED on
9	$\overline{\text{i-BASS}}$	O	LED drive signal output of the i-BASS indicator “L”: LED on
10	$\overline{\text{MOTOR}}$	O	Capstan/reel motor drive signal output terminal “L”: motor on
11	$\overline{\text{A-SOL}}$	O	Deck-A side trigger plunger drive signal output terminal “L”: plunger on
12	$\overline{\text{B-SOL}}$	O	Deck-B side trigger plunger drive signal output terminal “L”: plunger on
13 to 17	NC	—	Not used
18	SO	O	Serial data output to the multi controller
19	$\overline{\text{OE}}$	—	Not used
20	VDD	—	Power supply terminal (+3.3V)

• **PANEL BOARD IC901 LC8767962B-51F7 (SYSTEM CONTROLLER)**

Pin No.	Pin Name	I/O	Description
1	O-SYS-MUTE	O	Line muting on/off control signal output terminal "H": muting on
2	I-BU1924 DI	I	RDS serial data input from the tuner unit (AEP and UK models) Not used (Except AEP and UK models)
3	I-BU1924 CLK	I	RDS serial data transfer clock signal input from the tuner unit (AEP and UK models) Not used (Except AEP and UK models)
4	O-CL78646 RESET	O	Reset signal output to the CD DSP "L": reset
5	O-CL78646 CE	O	Chip enable signal output to the CD DSP
6	O-CL78684 CE	O	Chip enable signal output to the MP3 decoder
7	O-M61529 CLK	O	Serial data transfer clock signal output to the electrical volume
8	O-BU2099 LCK	O	Serial data latch pulse clock signal output to the LED driver, tape mechanism controller, multi controller and bass boost controller
9	O-LC72121 CE	O	Chip enable signal output to the tuner unit
10	I-CL78684 SYNC	I	Chip enable 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	Sub system clock input terminal (32.768 kHz)
13	XT2	O	Sub system clock output terminal (32.768 kHz)
14	VSS1	—	Ground terminal
15	CF1	I	Main system clock input terminal (8.64 MHz)
16	CF2	O	Main system clock output terminal (8.64 MHz)
17	VDD1	—	Power supply terminal (+3.3V)
18	I-SPEANA L	I	Spectrum analyzer drive (low frequency) signal input from the spectrum analyzer band-pass filter
19	I-SPEANA M	I	Spectrum analyzer drive (middle frequency) signal input from the spectrum analyzer band-pass filter
20	I-SPEANA H	I	Spectrum analyzer drive (high frequency) signal input from the spectrum analyzer band-pass filter
21	I-MIC/I-TU SIG	I	Mic audio signal input terminal (Except AEP, UK and CIS models) Not used (AEP, UK and CIS models)
22	I-BU UP DOWN/ CD OPEN CLOSE	I	Optical pick-up up/down detection signal and CD tray open/close detection signal input terminal
23	NC	—	Not used
24 to 26	I-KEY3 to I-KEY1	I	Front panel key input terminal (A/D input)
27	I-POWER DOWN	I	AC detection signal input terminal "L": power down
28	I-RMC	I	Remote control signal input terminal
29	I-HOLD	I	System malfunction signal (hold signal) input from the power amplifier circuit
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	S6/I-A-MODE	I/O	Segment drive signal output to the fluorescent indicator tube and deck-A mode detection signal input from the tape mechanism deck block "L" active
48	S7/I-A-PHOTO	I/O	Segment drive signal output to the fluorescent indicator tube and deck-A tape reel rotating detection signal input from the tape mechanism deck block
49	S8/I-A-HALF	I/O	Segment drive signal output to the fluorescent indicator tube and deck-A cassette detection signal input from the tape mechanism deck block "L": cassette in
50	I-REC (FWD)	I	Recording-proof (forward direction) detection signal input from the tape mechanism deck block "L": recording possible
51	FIX0	—	Not used

Pin No.	Pin Name	I/O	Description
52	I-B-PHOTO	I	Deck-B tape reel rotating detection signal input from the tape mechanism deck block
53	I-B-HALF	I	Deck-B cassette detection signal input from the tape mechanism deck block “L”: cassette in
54	S9/I-B-MODE	I/O	Segment drive signal output to the fluorescent indicator tube and deck-B mode detection signal input from the tape mechanism deck block “L” active
55	S10/I-REC (REW)	I/O	Segment drive signal output to the fluorescent indicator tube and recording-proof (reverse direction) detection signal input from the tape mechanism deck block “L”: recording possible
56 to 68	S11 to S23	O	Segment drive signal output to the fluorescent indicator tube
69 to 71	S24 to S26	O	Segment drive signal output to the fluorescent indicator tube Not used
72	VDD4	—	Power supply terminal (+3.3V)
73 to 75	—	—	Not used
76	I-HP-MUTE	I	Headphone detection signal input terminal “H”: headphone in
77	I-TRE B	I	Jog dial pulse input from the rotary encoder (TREBLE/MIDDLE) (B phase input)
78	I-TRE A	I	Jog dial pulse input from the rotary encoder (TREBLE/MIDDLE) (A phase input)
79	I-BASS B	I	Jog dial pulse input from the rotary encoder (BASS) (B phase input)
80	I-BASS A	I	Jog dial pulse input from the rotary encoder (BASS) (A phase input)
81	I-JOG B	I	Jog dial pulse input from the rotary encoder (jog dial) (B phase input)
82	I-JOG A	I	Jog dial pulse input from the rotary encoder (jog dial) (A phase input)
83	I-VOL B	I	Jog dial pulse input from the rotary encoder (VOLUME) (B phase input)
84	I-VOL A	I	Jog dial pulse input from the rotary encoder (VOLUME) (A phase input)
85	I-WRQ	I	CD interruption signal input from the CD DSP
86	I-CD DRF	I	CD focus on/off detection signal input from the CD DSP
87	I-LC72121 DI	I	Serial data input from the tuner unit
88	I-TUNER TUNE	I	Tuning detection signal input from the tuner unit “L”: tuned
89	VSS2	—	Ground terminal
90	VDD2	—	Power supply terminal (+3.3V)
91	O-LC72121/ M61529/BU2099 DO	O	Serial data output to the tuner unit, electrical volume and LED driver
92	O-LC72121/ BU2099 CLK	O	Serial data transfer clock signal output tuner unit, LED driver, tape mechanism controller, multi controller and bass boost controller
93	O-POWER LED	O	LED drive signal output of the POWER  STANDBY/ON indicator “L”: LED on
94	O-POWER RELAY	O	Power on/off relay drive signal output terminal “H”: power on
95	O-KEYSCAN	O	Key scan signal output for initial diode and switches in the tape mechanism deck “L”: key scan
96	I-CD NUMBER SENS	I	CD table address detection signal input terminal
97	I-TUNER STEREO	I	FM stereo detection signal input from the tuner unit “L”: stereo
98	O-LC78646/ LC78684 DO	O	Serial data output to the CD DSP and MP3 decoder
99	I-LC78646/ LC78684 DI	I	Serial data input from the CD DSP and MP3 decoder
100	O-LC78646/ LC78684 CLK	O	Serial data transfer clock signal output to the CD DSP and MP3 decoder

SECTION 7

EXPLODED VIEWS

NOTE:

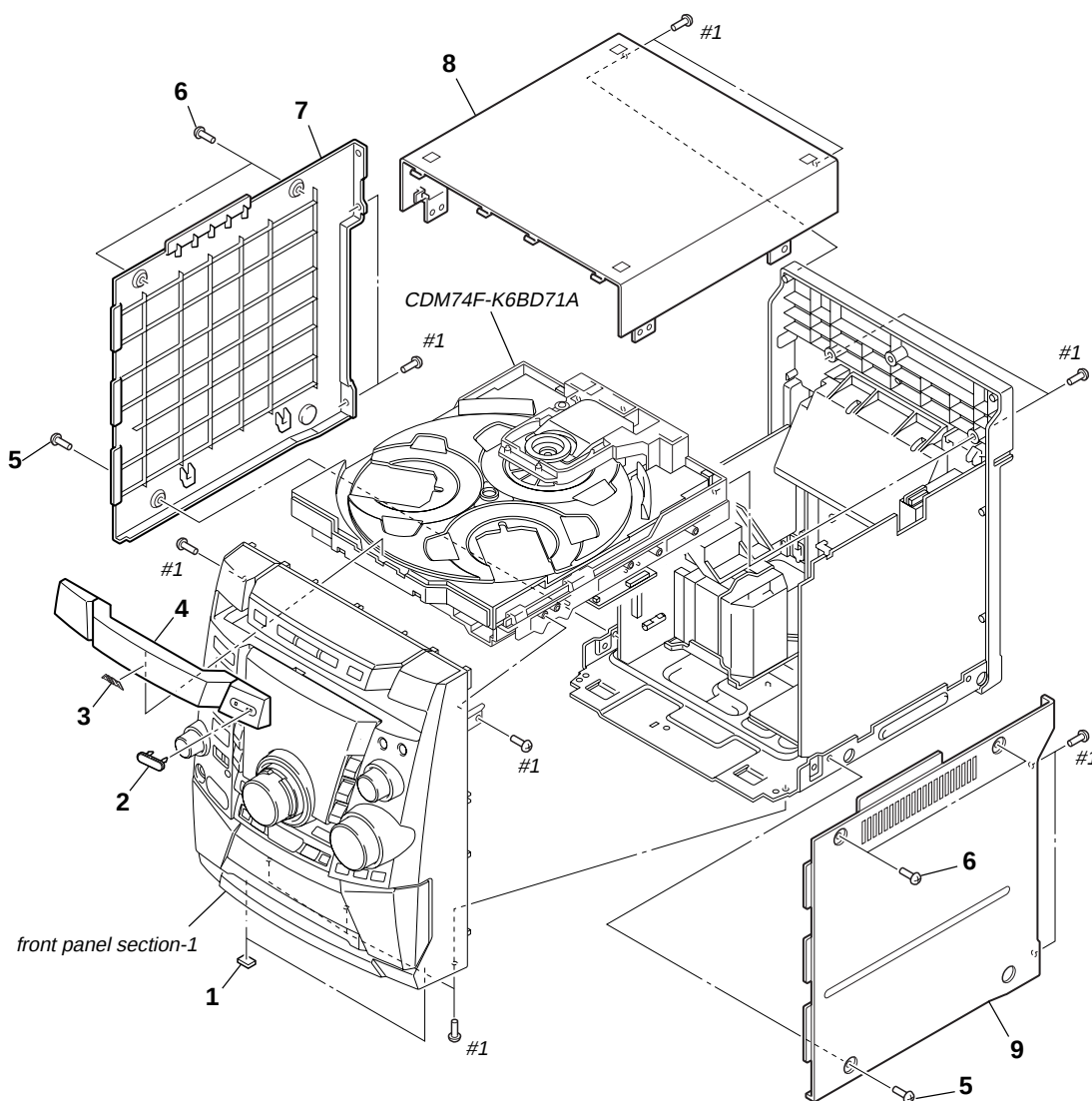
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the electrical parts list.

- Abbreviation
E51 : Chilean and Peruvian models
MX : Mexican model

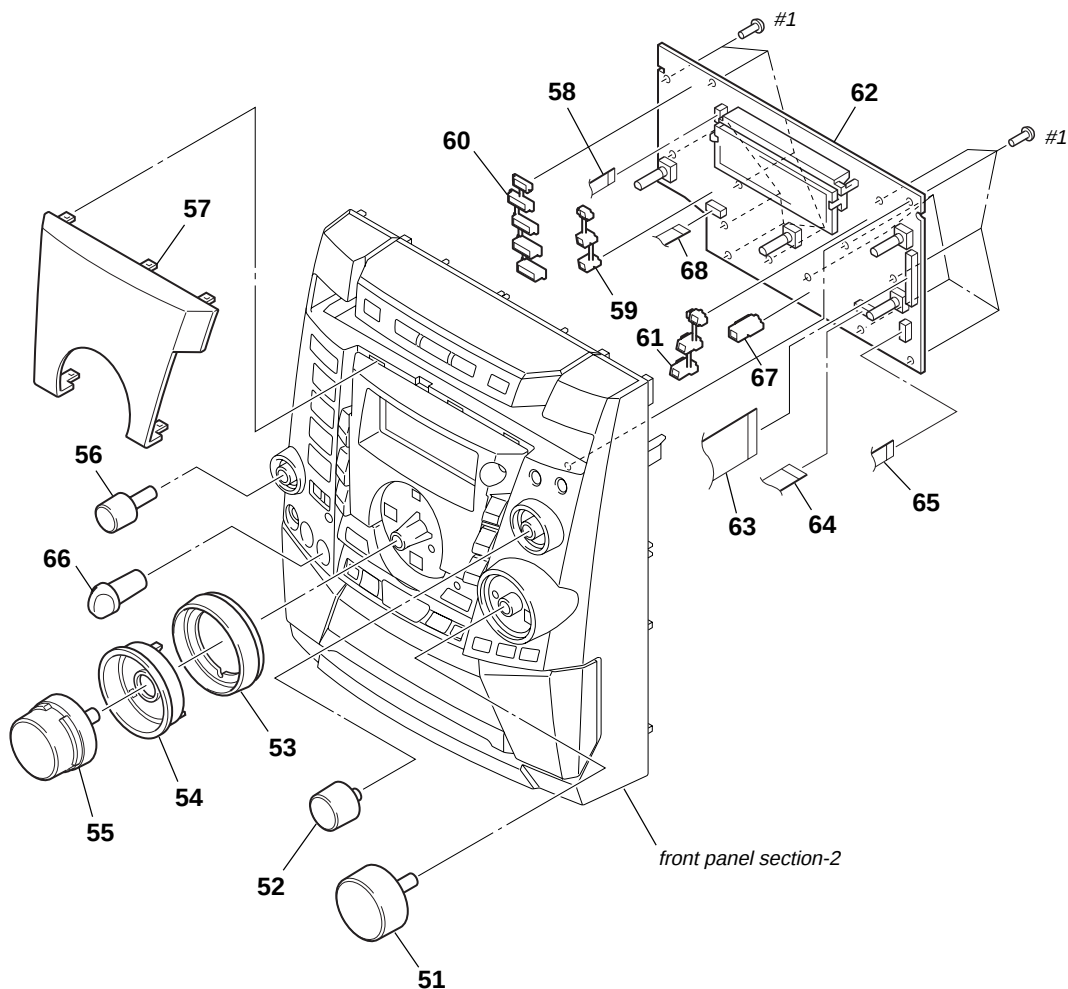
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

7-1. CASE SECTION



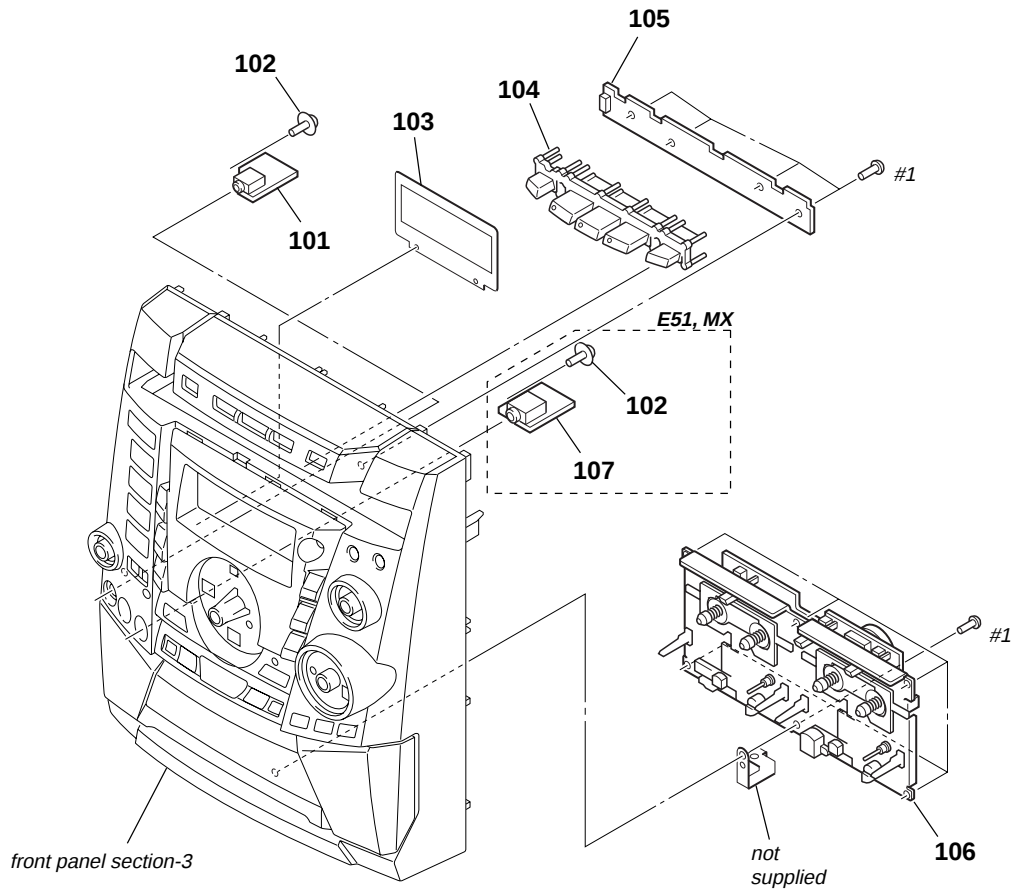
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-233-980-01	RUBBER FOOT		6	3-363-099-41	SCREW (CASE 3 TP2)	
2	4-246-682-01	EMBLEM (30), MP3		7	4-245-183-51	CASE (SIDE-L)	
3	4-245-158-01	EMBLEM		8	4-244-849-51	CASE (TOP)	
4	4-245-113-01	PANEL, TRAY		9	4-245-184-51	CASE (SIDE-R)	
5	3-363-099-01	SCREW (CASE 3 TP2)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

7-2. FRONT PANEL SECTION-1



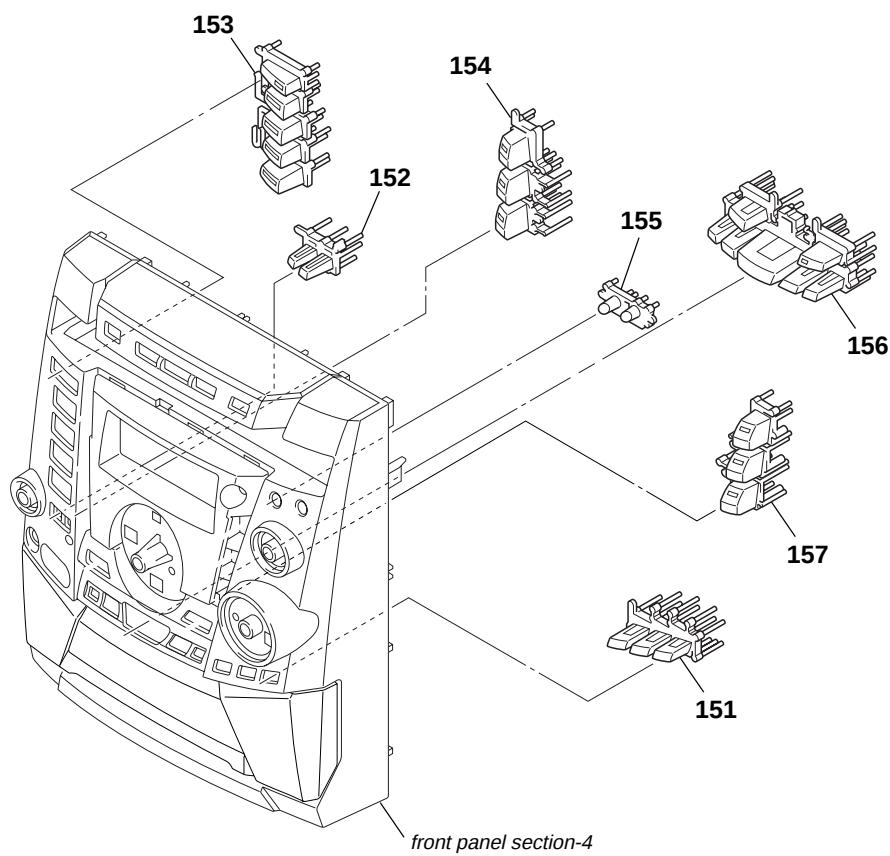
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-245-125-01	KNOB, ROTARY VOLUME		60	4-245-134-01	GUIDE, LED POWER	
52	4-245-126-11	KNOB, ROTARY JOG		61	4-245-141-01	GUIDE, LED GRAPHIC EQUALIZER (R)	
53	4-246-528-01	RING (BASS)		62	A-4734-180-A	PANEL BOARD, COMPLETE (AEP, UK)	
54	4-245-131-01	PANEL, BASS		62	A-4734-284-A	PANEL BOARD, COMPLETE (MX, E51)	
55	4-245-128-01	KNOB, ROTARY BASS (AEP, UK, CIS)		62	A-4734-792-A	PANEL BOARD, COMPLETE (CIS)	
55	4-245-132-01	KNOB, ROTARY BASS (LH) (MX, E51)		63	1-773-322-11	WIRE (FLAT TYPE) (31 CORE)	
56	4-245-127-11	KNOB, ROTARY TREBLE		64	1-769-976-11	WIRE (FLAT TYPE) (13 CORE)	
57	4-245-114-51	WINDOW, DISPLAY (AEP, UK)		65	1-769-919-11	WIRE (FLAT TYPE) (9 CORE)	
57	4-245-114-61	WINDOW, DISPLAY (CIS)		66	4-245-119-01	KNOB, MICROPHONE (MX, E51)	
57	4-245-114-71	WINDOW, DISPLAY (MX, E51)		67	4-245-144-01	GUIDE, LED BASS	
58	1-769-889-11	WIRE (FLAT TYPE) (7 CORE)		68	1-827-399-11	WIRE (FLAT TYPE) (3 CORE)	
59	4-245-135-01	GUIDE, LED GRAPHIC EQUALIZER (L)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

7-3. FRONT PANEL SECTION-2



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	1-688-545-11	HEADPHONE BOARD		106	1-796-486-41	DECK, MECHANICAL (CWM43FR16)	
102	3-229-336-01	SCREW, +BVWH TAPPING				(AEP, UK, CIS)	
103	4-245-142-11	SHEET, FL F4		106	1-796-487-41	DECK, MECHANICAL (CWM43RR23) (MX, E51)	
104	X-4955-415-1	KEY (CD) ASSY (DISC CHANGE. 1. 2. 3. ▲)		107	1-688-547-11	MICROPHONE BOARD (MX, E51)	
105	1-688-546-11	CD BUTTON BOARD		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

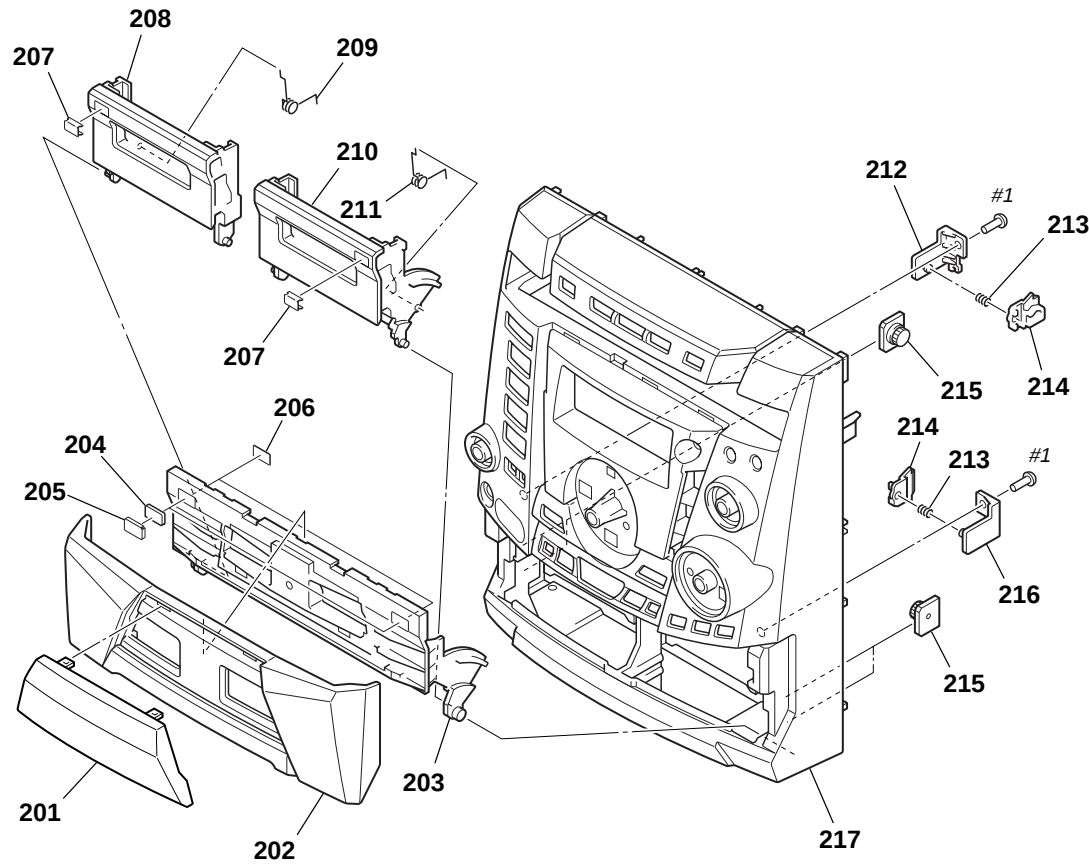
7-4. FRONT PANEL SECTION-3



Ref. No.	Part No.	Description	Remark
151	4-245-124-01	KEY, RDS	
152	4-245-122-01	KEY, REC	
153	X-4955-411-1	KEY (POWER) ASSY	
154	X-4955-412-1	KEY (GEQ L) ASSY (HEAVY. VOCAL. SALSA)	
155	4-245-121-01	KEY, ENTER	
156	X-4955-414-1	KEY (OPE) ASSY (SURROUND. i-BASS. ◀◀. ◀◀. ▶▶. ▶▶.)	(MX, E51)

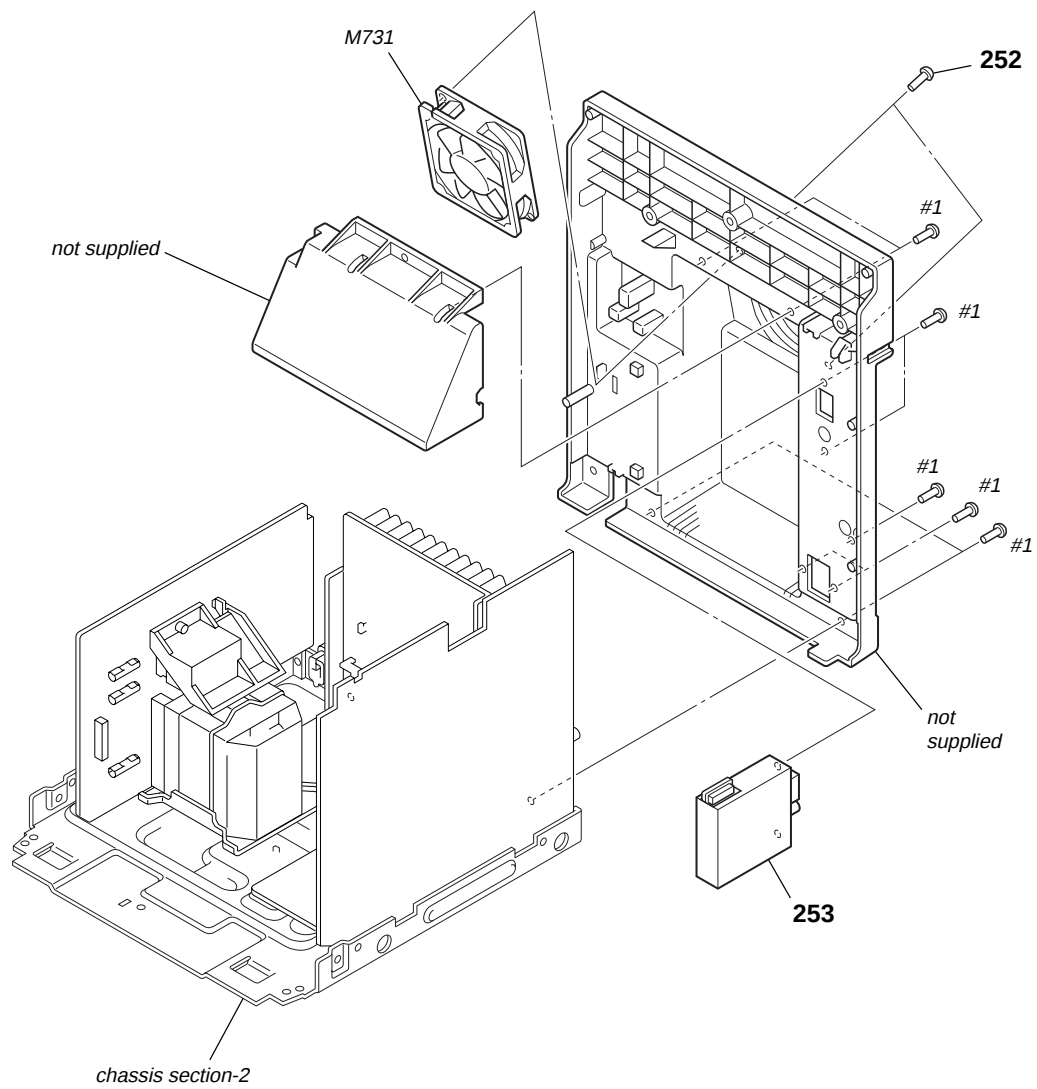
Ref. No.	Part No.	Description	Remark
156	X-4955-683-1	KEY (OPE) ASSY (SURROUND. i-BASS. ◀◀. ◀◀. ▶▶. ▶▶.)	(AEP, UK, CIS)
157	X-4955-413-1	KEY (GEQ R) ASSY (TECHNO. HIP HOP. MANUAL)	

7-5. FRONT PANEL SECTION-4



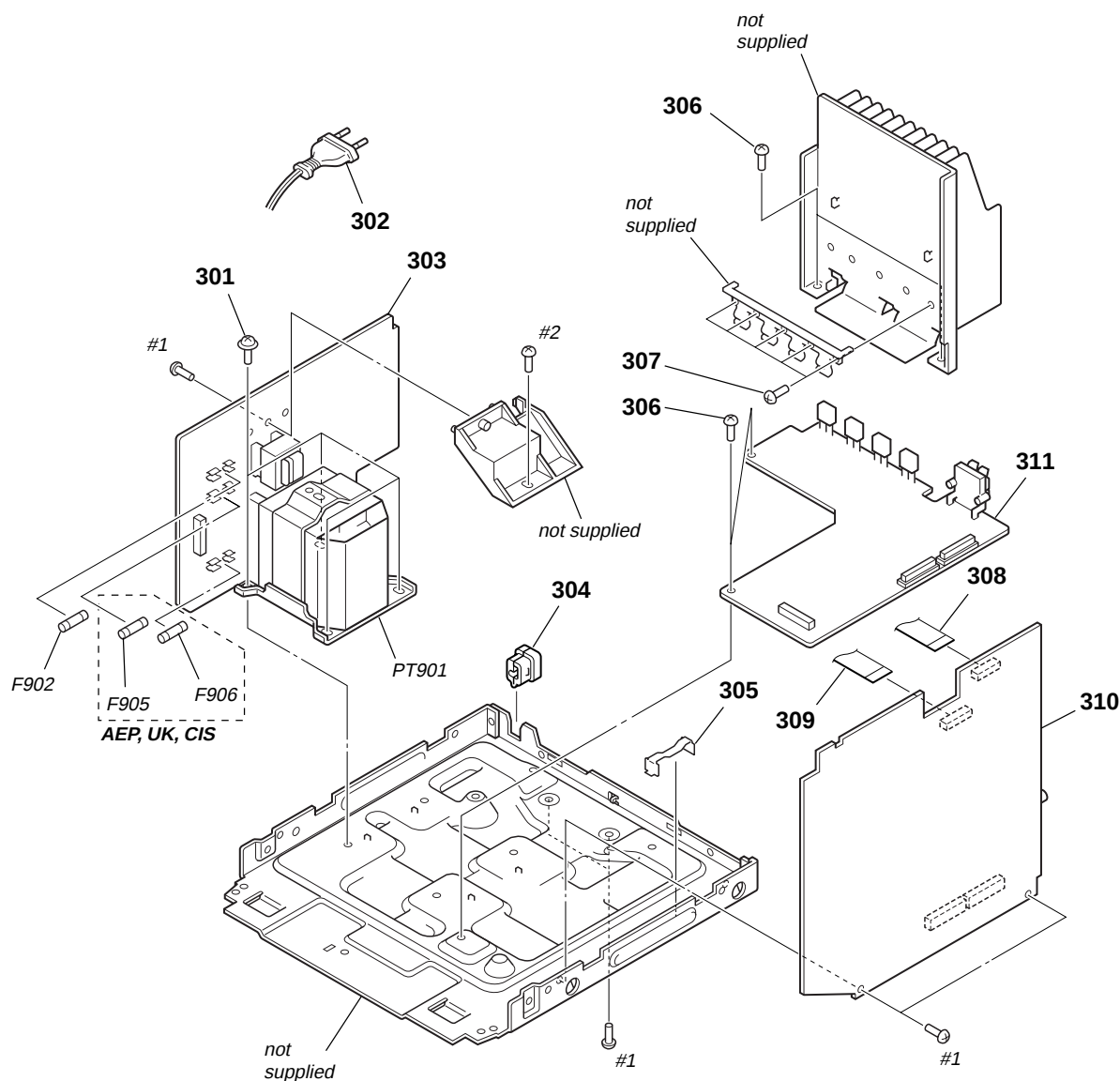
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	4-245-115-01	WINDOW, CASSETTE		211	4-245-010-01	SPR-T, BOX CASS R	
202	4-245-111-01	PANEL, DOOR (MX, E51)		212	4-242-174-01	HLDR, LOCK 1	
202	4-245-111-11	PANEL, DOOR (AEP, UK, CIS)		213	4-242-173-01	SPR-C, LOCK	
203	4-245-110-01	BOX, DOOR		214	4-242-172-01	PLATE, LOCK	
204	4-242-161-01	MAGNET, BOX		215	4-224-104-41	DAMPER	
205	4-242-163-01	COVER, MAGNET		216	4-242-175-01	HLDR, LOCK2	
206	4-242-164-01	SH, W/ADH		217	4-245-108-11	CABINET, FRONT (MX, E51)	
207	4-242-162-01	PLATE, BOX		217	4-245-108-21	CABINET, FRONT (AEP, UK)	
208	4-245-112-01	BOX, CASSETTE (1)		217	4-245-108-31	CABINET, FRONT (CIS)	
209	4-245-009-01	SPR-T, BOX CASS L		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
210	4-245-138-01	BOX, CASSETTE (2)					

7-6. CHASSIS SECTION-1



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
252	4-951-620-41	SCREW (2.6X8), +BVTP		253	1-693-628-11	TUNER (FM/AM) (E51, MX)	
253	1-693-625-11	TUNER (FM/AM) (UK)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
253	1-693-626-11	TUNER (FM/AM) (AEP)		M731	1-763-072-11	FAN, DC	
253	1-693-627-11	TUNER (FM/AM) (CIS)					

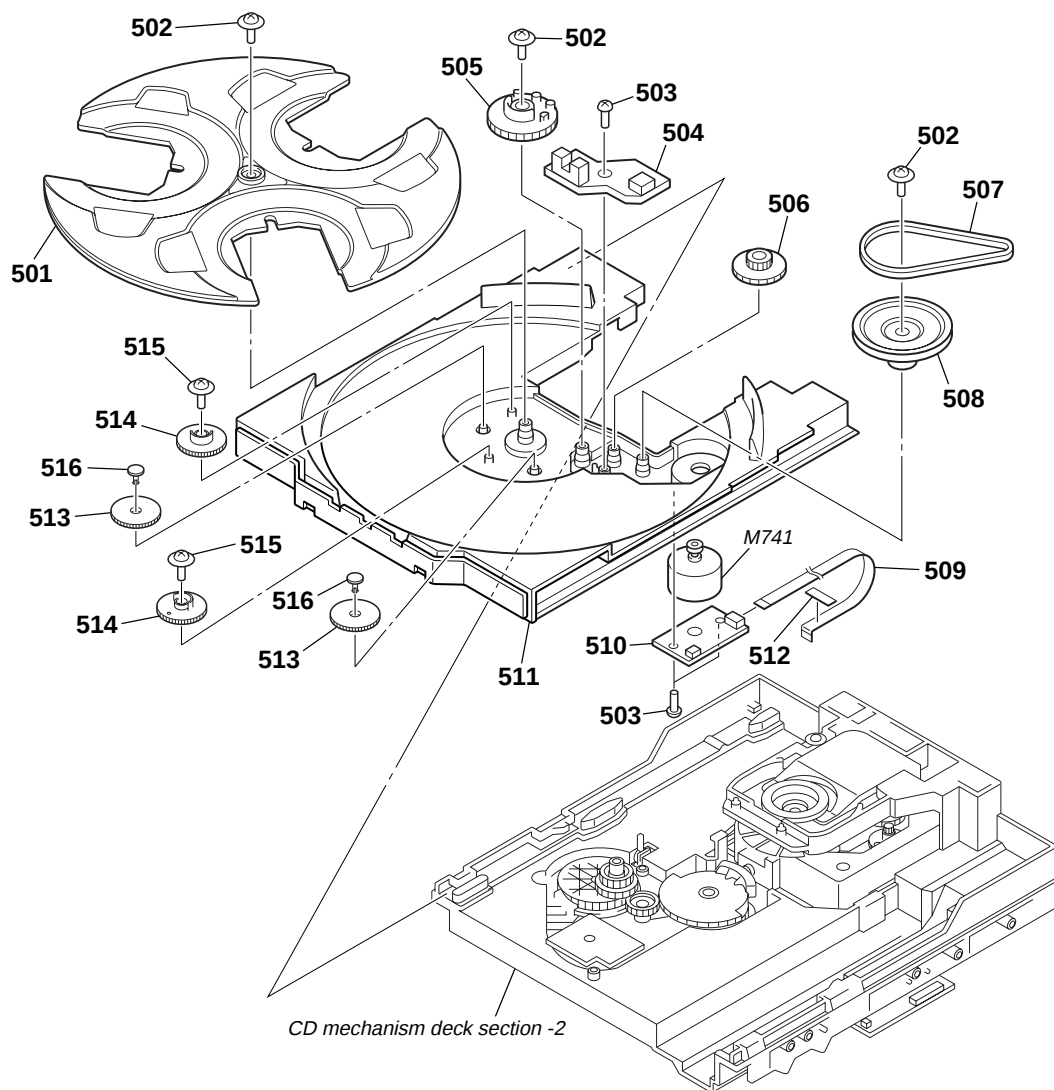
7-7. CHASSIS SECTION-2



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

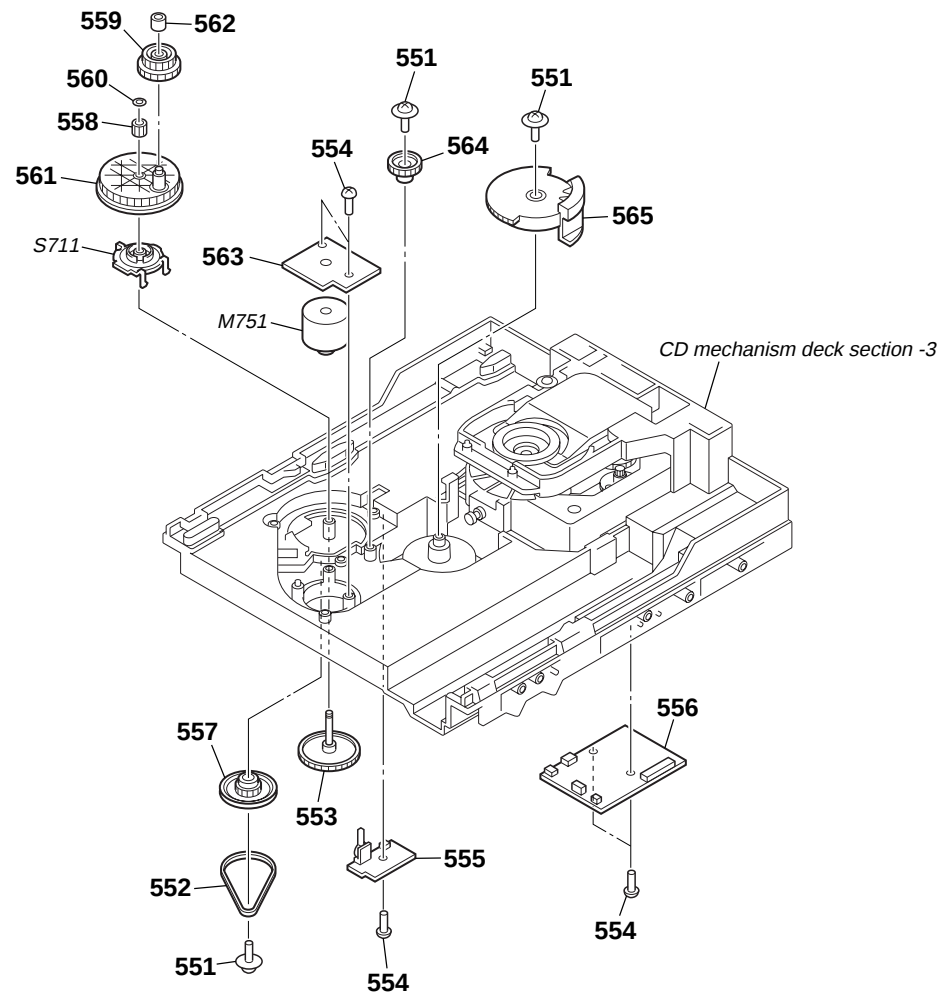
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	4-242-527-01	S-SCREW, ITC+4-8 R		310	A-4734-797-A	MAIN BOARD, COMPLETE (CIS)	
$\triangle$ 302	1-777-071-83	CORD, POWER (UK, CIS, E51)		310	A-4738-393-A	MAIN BOARD, COMPLETE (MX, E51)	
$\triangle$ 302	1-783-532-11	CORD, POWER (AEP)		311	A-4734-182-A	POWER BOARD, COMPLETE (AEP, UK, CIS)	
$\triangle$ 302	1-827-226-11	CORD, POWER (MX)		311	A-4734-289-A	POWER BOARD, COMPLETE (E51)	
303	1-688-695-13	TRANSFORMER BOARD (AEP, UK, CIS)		311	A-4734-705-A	POWER BOARD, COMPLETE (MX)	
303	1-688-747-13	TRANSFORMER BOARD (E51)		$\triangle$ F902	1-533-469-11	FUSE, GLASS TUBE (DIA. 5) (T2.5AL/250V)	
303	1-688-958-11	TRANSFORMER BOARD (MX)		$\triangle$ F905	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL/250V)	
* 304	3-703-244-00	BUSHING (2104), CORD (AEP, UK, CIS, E51)				(AEP, UK, CIS)	
* 304	3-703-571-12	BUSHING (S) (4516), CORD (MX)		$\triangle$ F905	1-576-655-11	FUSE, GLASS TUBE (DIA. 5) (T8AL/250V) (MX)	
305	4-988-533-01	HOLDER, PWB		$\triangle$ F906	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL/250V)	
306	4-242-539-01	BVIT3B-8R W/O SLOT				(AEP, UK, CIS)	
307	3-905-609-01	SCREW (TRANSISTOR)		$\triangle$ F906	1-576-655-11	FUSE, GLASS TUBE (DIA. 5) (T8AL/250V) (MX)	
308	1-769-939-11	WIRE (FLAT TYPE) (11 CORE) (CIS, MX, E51)		$\triangle$ PT901	1-439-790-11	TRANSFORMER, POWER (E51)	
308	1-773-003-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)		$\triangle$ PT901	1-439-793-11	TRANSFORMER, POWER (AEP, UK, CIS)	
309	1-827-146-11	WIRE (FLAT TYPE) (19 CORE)		$\triangle$ PT901	1-439-938-11	TRANSFORMER, POWER (MX)	
310	A-4734-189-A	MAIN BOARD, COMPLETE (AEP, UK)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
				#2	7-685-872-09	SCREW +BVTT 3X8 (S)	

7-8. CD MECHANISM DECK SECTION-1 (CDM74F-K6BD71A)



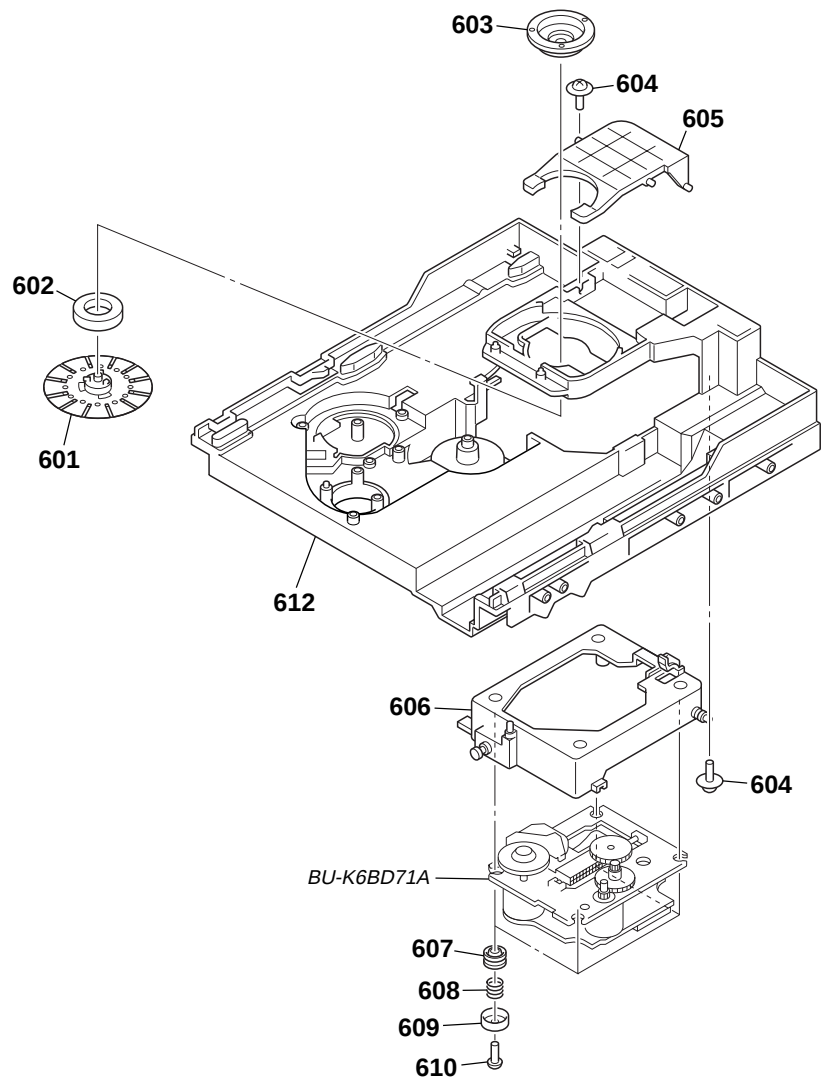
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501	4-243-815-01	TABLE (LOADING)		510	1-687-134-11	MOTOR (TB) BOARD	
502	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		511	4-243-816-01	TRAY	
503	4-218-253-21	SCREW (M2.6), +BTTP		512	3-231-598-01	SHEET (BA)	
504	1-687-132-11	SENSOR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

7-9. CD MECHANISM DECK SECTION-2
(CDM74F-K6BD71A)



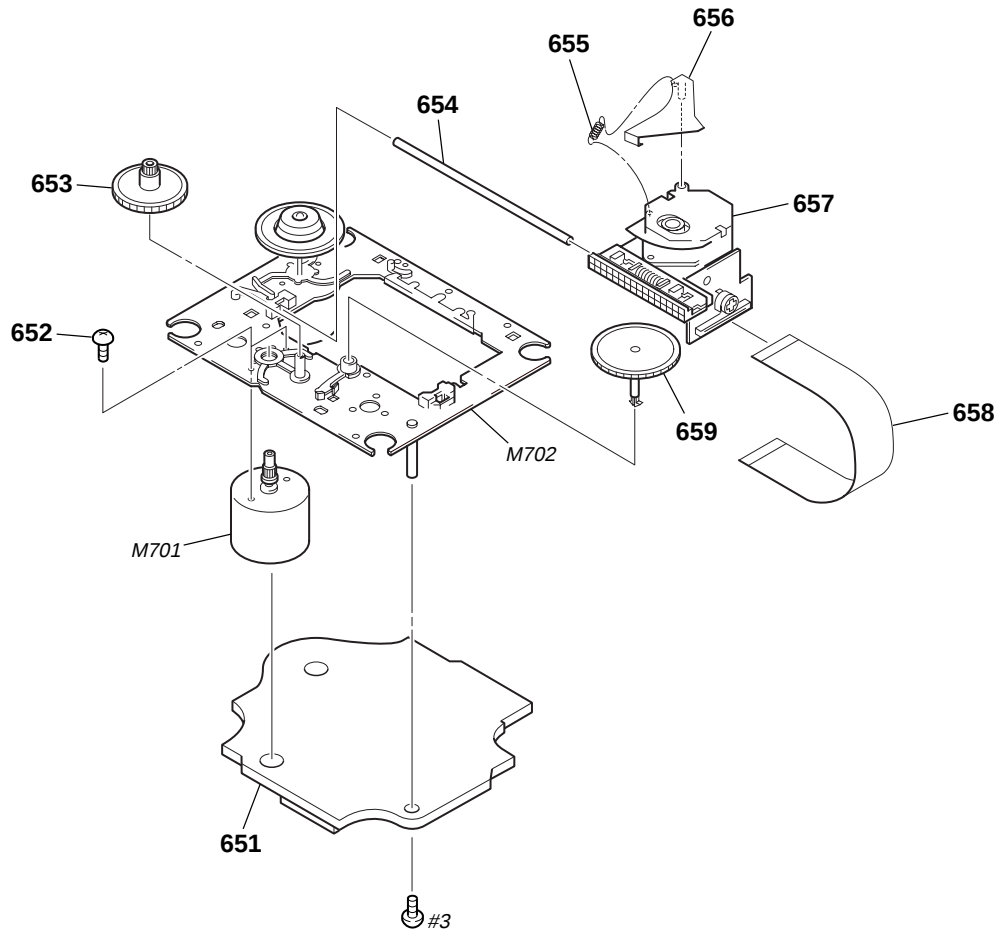
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
551	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		560	3-016-533-11	WASHER (FR), STOPPER	
552	4-244-034-01	BELT (LOADING)		561	4-244-108-01	GEAR, SWING	
553	4-224-613-01	GEAR (SHAFT)		562	4-224-608-01	COLLAR, SWING	
554	4-218-253-31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

7-10. CD MECHANISM DECK SECTION-3
(CDM74F-K6BD71A)



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

7-11. BASE UNIT SECTION
(BU-K6BD71A)



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
651	A-4732-699-A	BD BOARD, COMPLETE		Δ 657	8-820-020-11	OPTICAL PICK-UP KSS-213D/Z-RP	
652	3-713-786-51	SCREW (M2X3)		658	1-823-859-11	WIRE (FLAT TYPE) (16 CORE)	
653	2-627-003-01	GEAR (B) (RP)		659	2-625-188-02	GEAR (A)	
654	2-626-908-51	SHAFT, SLED		M701	X-2625-769-1	GEAR ASSY (MB) (RP), MOTOR (SLED)	
655	2-646-702-01	SPRING, EXTENSION		M702	X-2161-802-1	CHASSIS ASSY (DCP), T. T (SPINDLE)	
656	2-646-697-02	SHUTTER (F), LENS		#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
- Abbreviation
E51 : Chilean and Peluvian models
MX : Mexican model

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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-4732-699-A	BD BOARD, COMPLETE *****					
		< CAPACITOR >					
C701	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C803	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C702	1-126-392-11	ELECT CHIP 100uF	20% 6.3V	C804	1-162-945-11	CERAMIC CHIP 22PF	5% 50V
C703	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C805	1-126-392-11	ELECT CHIP 100uF	20% 6.3V
C704	1-126-391-11	ELECT CHIP 47uF	20% 6.3V	C806	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C705	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C807	1-126-392-11	ELECT CHIP 100uF	20% 6.3V
C706	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C810	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C707	1-126-392-11	ELECT CHIP 100uF	20% 6.3V	C811	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C708	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C812	1-115-156-11	CERAMIC CHIP 1uF	10V
C709	1-126-392-11	ELECT CHIP 100uF	20% 6.3V	C813	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C710	1-165-176-11	CERAMIC CHIP 0.047uF	10% 16V	C814	1-126-392-11	ELECT CHIP 100uF	20% 6.3V
C711	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C815	1-128-360-11	ELECT CHIP 220uF	20% 10V
C712	1-162-949-11	CERAMIC CHIP 47PF	5% 50V	C816	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C713	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V	C817	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C714	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C823	1-162-949-11	CERAMIC CHIP 47PF	5% 50V
C715	1-126-401-21	ELECT CHIP 1uF	20% 50V	C824	1-162-949-11	CERAMIC CHIP 47PF	5% 50V
C716	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C825	1-162-949-11	CERAMIC CHIP 47PF	5% 50V
C717	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V	C829	1-162-949-11	CERAMIC CHIP 47PF	5% 50V
C718	1-115-156-11	CERAMIC CHIP 1uF	10V	C830	1-162-945-11	CERAMIC CHIP 22PF	5% 50V
C719	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V	C831	1-162-945-11	CERAMIC CHIP 22PF	5% 50V
C720	1-162-953-11	CERAMIC CHIP 100PF	5% 50V	C834	1-128-360-11	ELECT CHIP 220uF	20% 10V
C721	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C835	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C722	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C837	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C723	1-126-392-11	ELECT CHIP 100uF	20% 6.3V	C843	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C729	1-128-360-11	ELECT CHIP 220uF	20% 10V	C844	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C731	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C856	1-115-156-11	CERAMIC CHIP 1uF	10V
C732	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C857	1-162-945-11	CERAMIC CHIP 22PF	5% 50V
C733	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C858	1-162-945-11	CERAMIC CHIP 22PF	5% 50V
C734	1-162-917-11	CERAMIC CHIP 15PF	5% 50V	C859	1-162-945-11	CERAMIC CHIP 22PF	5% 50V
C735	1-162-918-11	CERAMIC CHIP 18PF	5% 50V	C860	1-162-953-11	CERAMIC CHIP 100PF	5% 50V
C741	1-164-156-11	CERAMIC CHIP 0.1uF	25V			< CONNECTOR >	
C742	1-164-156-11	CERAMIC CHIP 0.1uF	25V	CN708	1-817-244-11	CONNECTOR, FFC 16P	
C743	1-165-176-11	CERAMIC CHIP 0.047uF	10% 16V	CN710	1-778-874-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P	
C744	1-125-837-11	CERAMIC CHIP 1uF	10% 6.3V			< FERRITE BEAD >	
C746	1-164-156-11	CERAMIC CHIP 0.1uF	25V	FB701	1-550-907-21	FERRITE 0uH	
C747	1-164-156-11	CERAMIC CHIP 0.1uF	25V	FB707	1-550-907-21	FERRITE 0uH	
C748	1-128-360-11	ELECT CHIP 220uF	20% 10V	FB708	1-550-907-21	FERRITE 0uH	
C753	1-162-949-11	CERAMIC CHIP 47PF	5% 50V	FB801	1-550-907-21	FERRITE 0uH	
C754	1-162-949-11	CERAMIC CHIP 47PF	5% 50V	FB802	1-550-907-21	FERRITE 0uH	
C756	1-162-949-11	CERAMIC CHIP 47PF	5% 50V	FB803	1-550-907-21	FERRITE 0uH	
C802	1-164-156-11	CERAMIC CHIP 0.1uF	25V	FB804	1-550-907-21	FERRITE 0uH	
				FB805	1-550-907-21	FERRITE 0uH	

BD

CD BUTTON

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
FB806	1-550-907-21	FERRITE	0uH	R805	1-216-809-11	METAL CHIP	100 5% 1/10W
FB807	1-550-907-21	FERRITE	0uH	R806	1-216-809-11	METAL CHIP	100 5% 1/10W
FB808	1-550-907-21	FERRITE	0uH	R807	1-216-809-11	METAL CHIP	100 5% 1/10W
< IC >				R817	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
IC721	6-701-796-01	IC LC78646E-E		R818	1-216-811-11	METAL CHIP	150 5% 1/10W
IC722	6-704-220-01	IC BA5836FP		R819	1-216-821-11	METAL CHIP	1K 5% 1/10W
IC801	6-704-008-01	IC LC78684E-E		R820	1-216-821-11	METAL CHIP	1K 5% 1/10W
IC802	6-704-009-01	IC LC32V4265CT-25-MPB-E		R823	1-216-809-11	METAL CHIP	100 5% 1/10W
IC803	6-704-007-01	IC MM1571J		R824	1-216-809-11	METAL CHIP	100 5% 1/10W
< TRANSISTOR >				R825	1-216-809-11	METAL CHIP	100 5% 1/10W
Q701	8-729-054-51	TRANSISTOR	UP04116008S0	R826	1-216-809-11	METAL CHIP	100 5% 1/10W
< RESISTOR >				R827	1-216-809-11	METAL CHIP	100 5% 1/10W
R701	1-216-841-11	METAL CHIP	47K 5% 1/10W	R828	1-216-809-11	METAL CHIP	100 5% 1/10W
R702	1-216-835-11	METAL CHIP	15K 5% 1/10W	R829	1-216-809-11	METAL CHIP	100 5% 1/10W
R703	1-216-835-11	METAL CHIP	15K 5% 1/10W	R832	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R704	1-216-835-11	METAL CHIP	15K 5% 1/10W	R833	1-216-809-11	METAL CHIP	100 5% 1/10W
R705	1-216-835-11	METAL CHIP	15K 5% 1/10W	R834	1-216-809-11	METAL CHIP	100 5% 1/10W
R706	1-216-841-11	METAL CHIP	47K 5% 1/10W	R860	1-216-809-11	METAL CHIP	100 5% 1/10W
R707	1-216-797-11	METAL CHIP	10 5% 1/10W	< SWITCH >			
R708	1-216-833-11	METAL CHIP	10K 5% 1/10W	S701	1-771-853-11	SWITCH, DETECTION (LIMIT IN)	
R709	1-216-838-11	METAL CHIP	27K 5% 1/10W	< VIBRATOR >			
R711	1-216-815-11	METAL CHIP	330 5% 1/10W	X701	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)	
R713	1-216-821-11	METAL CHIP	1K 5% 1/10W	*****			
R714	1-216-809-11	METAL CHIP	100 5% 1/10W	1-688-546-11	CD BUTTON BOARD	*****	
R715	1-216-809-11	METAL CHIP	100 5% 1/10W	< CONNECTOR >			
R716	1-216-809-11	METAL CHIP	100 5% 1/10W	CN302	1-568-850-11	CONNECTOR, FFC 7P	
R717	1-216-809-11	METAL CHIP	100 5% 1/10W	< LED >			
R718	1-216-809-11	METAL CHIP	100 5% 1/10W	LED301	8-719-063-93	LED SLR325VC-N-T32(DISC DIRECT PLAY 1)	
R719	1-216-809-11	METAL CHIP	100 5% 1/10W	LED302	8-719-063-93	LED SLR325VC-N-T32(DISC DIRECT PLAY 2)	
R720	1-216-809-11	METAL CHIP	100 5% 1/10W	LED303	8-719-063-93	LED SLR325VC-N-T32(DISC DIRECT PLAY 3)	
R721	1-216-809-11	METAL CHIP	100 5% 1/10W	< RESISTOR >			
R722	1-216-821-11	METAL CHIP	1K 5% 1/10W	R327	1-247-843-11	CARBON	3.3K 5% 1/4W
R725	1-216-819-11	METAL CHIP	680 5% 1/10W	R328	1-249-425-11	CARBON	4.7K 5% 1/4W
R726	1-216-819-11	METAL CHIP	680 5% 1/10W	R329	1-249-427-11	CARBON	6.8K 5% 1/4W
R727	1-216-809-11	METAL CHIP	100 5% 1/10W	R330	1-249-429-11	CARBON	10K 5% 1/4W
R728	1-216-841-11	METAL CHIP	47K 5% 1/10W	R331	1-249-429-11	CARBON	10K 5% 1/4W
R729	1-216-834-11	METAL CHIP	12K 5% 1/10W	R332	1-249-417-11	CARBON	1K 5% 1/4W
R730	1-216-822-11	METAL CHIP	1.2K 5% 1/10W	R341	1-249-417-11	CARBON	1K 5% 1/4W
R731	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R342	1-249-417-11	CARBON	1K 5% 1/4W
R732	1-216-864-11	SHORT CHIP	0	< SWITCH >			
R738	1-218-867-11	METAL CHIP	6.8K 5% 1/10W	S327	1-762-875-21	SWITCH, KEYBOARD	
R739	1-216-864-11	SHORT CHIP	0	(DISC CHANGE/DISC SKIP)			
R740	1-218-867-11	METAL CHIP	6.8K 5% 1/10W	S328	1-762-875-21	SWITCH, KEYBOARD (DISC DIRECT PLAY 1)	
R741	1-216-864-11	SHORT CHIP	0	S329	1-762-875-21	SWITCH, KEYBOARD (DISC DIRECT PLAY 2)	
R744	1-216-845-11	METAL CHIP	100K 5% 1/10W	S330	1-762-875-21	SWITCH, KEYBOARD (DISC DIRECT PLAY 3)	
R745	1-216-809-11	METAL CHIP	100 5% 1/10W	S331	1-762-875-21	SWITCH, KEYBOARD (▲ OPEN/CLOSE)	
R746	1-216-803-11	METAL CHIP	33 5% 1/10W	*****			
R747	1-216-803-11	METAL CHIP	33 5% 1/10W				
R760	1-216-809-11	METAL CHIP	100 5% 1/10W				
R765	1-216-857-11	METAL CHIP	1M 5% 1/10W				
R801	1-216-809-11	METAL CHIP	100 5% 1/10W				
R802	1-216-809-11	METAL CHIP	100 5% 1/10W				
R803	1-216-809-11	METAL CHIP	100 5% 1/10W				
R804	1-216-809-11	METAL CHIP	100 5% 1/10W				

DRIVER

HEADPHONE

MAIN

Ref. No.	Part No.	Description	Remark			
	1-687-135-11	DRIVER BOARD	*****			
		< CAPACITOR >				
C715	1-126-933-11	ELECT	100uF	20%	16V	
C731	1-126-964-11	ELECT	10uF	20%	50V	
C735	1-164-159-21	CERAMIC	0.1uF		50V	
C736	1-164-159-21	CERAMIC	0.1uF		50V	
C737	1-164-159-21	CERAMIC	0.1uF		50V	
C741	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C751	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C752	1-164-159-21	CERAMIC	0.1uF		50V	
		< CONNECTOR >				
CN701	1-785-338-11	PIN, CONNECTOR (LIGHT ANGLE) 12P				
CN702	1-784-766-11	CONNECTOR, FFC 5P				
* CN703	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P				
CN704	1-785-328-11	PIN, CONNECTOR (LIGHT ANGLE) 2P				
		< DIODE >				
D701	8-719-921-42	DIODE MTZJ-5.1A				
D711	8-719-109-69	DIODE RD3.6ES-B2				
		< IC >				
IC701	8-759-598-69	IC BA6956AN				
IC712	8-759-598-69	IC BA6956AN				
		< TRANSISTOR >				
Q731	8-729-029-66	TRANSISTOR DTC114ESA				
		< RESISTOR >				
R701	1-249-413-11	CARBON	470	5%	1/4W	
R702	1-247-807-31	CARBON	100	5%	1/4W	
R711	1-249-417-11	CARBON	1K	5%	1/4W	
R712	1-249-425-11	CARBON	4.7K	5%	1/4W	
R713	1-249-433-11	CARBON	22K	5%	1/4W	
R721	1-249-425-11	CARBON	4.7K	5%	1/4W	
R722	1-249-425-11	CARBON	4.7K	5%	1/4W	
R723	1-249-425-11	CARBON	4.7K	5%	1/4W	
R731	1-247-807-31	CARBON	100	5%	1/4W	
R732	1-249-429-11	CARBON	10K	5%	1/4W	
R733	1-249-417-11	CARBON	1K	5%	1/4W	
R734	1-249-430-11	CARBON	12K	5%	1/4W	
R735	1-247-807-31	CARBON	100	5%	1/4W	
R751	1-249-425-11	CARBON	4.7K	5%	1/4W	

	1-688-545-11	HEADPHONE BOARD	*****			
		< CAPACITOR >				
C301	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	
C302	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	
		< JACK >				
J221	1-793-829-11	JACK, HEADPHONE (PHONES)				

Ref. No.	Part No.	Description	Remark			
	A-4734-189-A	MAIN BOARD, COMPLETE (AEP, UK)				
	A-4734-797-A	MAIN BOARD, COMPLETE (CIS)				
	A-4738-393-A	MAIN BOARD, COMPLETE (MX, E51)	*****			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S				
		< CAPACITOR >				
C101	1-126-963-11	ELECT	4.7uF	20%	50V	
C102	1-126-963-11	ELECT	4.7uF	20%	50V	
C103	1-126-933-11	ELECT	100uF	20%	16V	
C108	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	(AEP, UK, CIS)
C201	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C202	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C203	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C204	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C221	1-126-947-11	ELECT	47uF	20%	16V	
C223	1-130-973-00	MYLAR	0.022uF	5%	100V	
C225	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C226	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C232	1-126-947-11	ELECT	47uF	20%	16V	
C233	1-130-471-00	MYLAR	0.001uF	5%	50V	
C234	1-130-471-00	MYLAR	0.001uF	5%	50V	
C237	1-126-960-11	ELECT	1uF	20%	50V	
C239	1-130-485-00	MYLAR	0.015uF	5%	50V	
C240	1-126-964-11	ELECT	10uF	20%	50V	
C241	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C242	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C244	1-126-947-11	ELECT	47uF	20%	16V	
C247	1-126-961-11	ELECT	2.2uF	20%	50V	
C248	1-126-961-11	ELECT	2.2uF	20%	50V	
C249	1-126-961-11	ELECT	2.2uF	20%	50V	
C250	1-126-961-11	ELECT	2.2uF	20%	50V	
C253	1-126-933-11	ELECT	100uF	20%	16V	
C254	1-126-963-11	ELECT	4.7uF	20%	50V	
C258	1-126-963-11	ELECT	4.7uF	20%	50V	
C259	1-128-551-11	ELECT	22uF	20%	25V	
C260	1-126-959-11	ELECT	0.47uF	20%	50V	
C261	1-126-959-11	ELECT	0.47uF	20%	50V	
C266	1-130-483-00	MYLAR	0.01uF	5%	50V	
C267	1-130-483-00	MYLAR	0.01uF	5%	50V	
C268	1-126-960-11	ELECT	1uF	20%	50V	
C269	1-126-960-11	ELECT	1uF	20%	50V	
C272	1-126-960-11	ELECT	1uF	20%	50V	
C273	1-126-960-11	ELECT	1uF	20%	50V	
C285	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C286	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C300	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C301	1-126-964-11	ELECT	10uF	20%	50V	
C302	1-126-964-11	ELECT	10uF	20%	50V	
C303	1-104-665-11	ELECT	100uF	20%	10V	
C304	1-126-963-11	ELECT	4.7uF	20%	50V	
C309	1-126-964-11	ELECT	10uF	20%	50V	
C310	1-126-964-11	ELECT	10uF	20%	50V	
C311	1-126-964-11	ELECT	10uF	20%	50V	
C312	1-126-964-11	ELECT	10uF	20%	50V	
C313	1-107-714-11	ELECT	10uF	20%	16V	
C314	1-107-714-11	ELECT	10uF	20%	16V	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C315	1-126-963-11	ELECT	4.7uF 20% 50V	C390	1-162-953-11	CERAMIC CHIP	100PF 5% 50V
C316	1-126-963-11	ELECT	4.7uF 20% 50V	C391	1-162-953-11	CERAMIC CHIP	100PF 5% 50V
C317	1-126-964-11	ELECT	10uF 20% 50V	C392	1-162-953-11	CERAMIC CHIP	100PF 5% 50V
C318	1-126-964-11	ELECT	10uF 20% 50V	C393	1-126-959-11	ELECT	0.47uF 20% 50V
C319	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V	C396	1-130-499-00	MYLAR	0.22uF 5% 50V
C320	1-130-487-00	MYLAR	0.022uF 5% 50V	C397	1-104-665-11	ELECT	100uF 20% 10V
C321	1-130-487-00	MYLAR	0.022uF 5% 50V	C398	1-126-964-11	ELECT	10uF 20% 50V
C323	1-130-487-00	MYLAR	0.022uF 5% 50V	C399	1-126-935-11	ELECT	470uF 20% 16V
C324	1-130-487-00	MYLAR	0.022uF 5% 50V	C400	1-128-551-11	ELECT	22uF 20% 25V
C325	1-130-491-00	MYLAR	0.047uF 5% 50V	C401	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C326	1-130-491-00	MYLAR	0.047uF 5% 50V	C402	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C327	1-130-476-00	MYLAR	0.0027uF 5% 50V	C411	1-107-713-11	ELECT	4.7uF 20% 35V
C328	1-130-476-00	MYLAR	0.0027uF 5% 50V	C412	1-107-713-11	ELECT	4.7uF 20% 35V
C329	1-126-963-11	ELECT	4.7uF 20% 50V	C417	1-126-926-11	ELECT	1000uF 20% 50V
C330	1-126-963-11	ELECT	4.7uF 20% 50V	C418	1-130-483-00	MYLAR	0.01uF 5% 50V
C331	1-130-499-00	MYLAR	0.22uF 5% 50V	C419	1-130-483-00	MYLAR	0.01uF 5% 50V
C332	1-130-499-00	MYLAR	0.22uF 5% 50V	C420	1-126-943-11	ELECT	2200uF 20% 25V
C333	1-130-499-00	MYLAR	0.22uF 5% 50V	C421	1-126-934-11	ELECT	220uF 20% 16V
C334	1-130-499-00	MYLAR	0.22uF 5% 50V	C425	1-164-315-11	CERAMIC CHIP	470PF 5% 50V
C337	1-126-964-11	ELECT	10uF 20% 50V				(SUFFIX-13)
C339	1-126-934-11	ELECT	220uF 20% 16V	C428	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C340	1-126-947-11	ELECT	47uF 20% 16V				(AEP, UK, CIS)
C341	1-126-947-11	ELECT	47uF 20% 16V	C430	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C342	1-164-156-11	CERAMIC CHIP	0.1uF 25V				(AEP, UK, CIS)
C345	1-126-933-11	ELECT	100uF 20% 16V	C431	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V
C351	1-115-416-11	CERAMIC CHIP	0.001uF 5% 25V				(AEP, UK)
C352	1-162-962-11	CERAMIC CHIP	470PF 10% 50V	C432	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V
C353	1-162-962-11	CERAMIC CHIP	470PF 10% 50V				(AEP, UK)
C354	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C433	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V
C355	1-162-962-11	CERAMIC CHIP	470PF 10% 50V				(AEP, UK)
C356	1-162-962-11	CERAMIC CHIP	470PF 10% 50V	C434	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V
C357	1-126-926-11	ELECT	1000uF 20% 10V				(AEP, UK)
C358	1-115-416-11	CERAMIC CHIP	0.001uF 5% 25V	C435	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V
			(SUFFIX-13)				(AEP, UK)
C361	1-162-960-11	CERAMIC CHIP	220PF 10% 50V	C436	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V
C362	1-162-960-11	CERAMIC CHIP	220PF 10% 50V				(AEP, UK)
C363	1-126-964-11	ELECT	10uF 20% 50V	C437	1-164-816-11	CERAMIC CHIP	220PF 2% 50V
C364	1-126-964-11	ELECT	10uF 20% 50V				(AEP, UK)
C365	1-162-960-11	CERAMIC CHIP	220PF 10% 50V	C438	1-164-816-11	CERAMIC CHIP	220PF 2% 50V
C366	1-162-960-11	CERAMIC CHIP	220PF 10% 50V				(AEP, UK)
C367	1-130-499-00	MYLAR	0.22uF 5% 50V	C439	1-107-721-11	ELECT	4.7uF 20% 100V
C369	1-126-964-11	ELECT	10uF 20% 50V	C440	1-107-721-11	ELECT	4.7uF 20% 100V
C370	1-126-964-11	ELECT	10uF 20% 50V	C442	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C371	1-126-947-11	ELECT	47uF 20% 16V				(AEP, UK, CIS)
C372	1-126-964-11	ELECT	10uF 20% 50V	C447	1-162-923-11	CERAMIC CHIP	47PF 5% 50V
C373	1-130-483-00	MYLAR	0.01uF 5% 50V				(SUFFIX-13)
C374	1-130-483-00	MYLAR	0.01uF 5% 50V	C448	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C375	1-126-943-11	ELECT	2200uF 20% 25V				(SUFFIX-13)
C377	1-126-963-11	ELECT	4.7uF 20% 50V	C450	1-126-964-11	ELECT	10uF 20% 50V
C379	1-126-947-11	ELECT	47uF 20% 25V	C491	1-164-245-11	CERAMIC CHIP	0.015uF 10% 25V
C380	1-126-935-11	ELECT	470uF 20% 16V	C492	1-126-960-11	ELECT	1uF 20% 50V
C381	1-126-947-11	ELECT	47uF 20% 16V				< CONNECTOR >
C382	1-130-477-00	MYLAR	0.0033uF 5% 50V	CN101	1-784-776-11	CONNECTOR, FFC 15P (AEP, UK)	
C383	1-130-477-00	MYLAR	0.0033uF 5% 50V	CN101	1-568-830-11	CONNECTOR, FFC 11P (CIS, MX, E51)	
C384	1-136-159-00	FILM	0.033uF 5% 50V	* CN202	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P	
C385	1-136-159-00	FILM	0.033uF 5% 50V	* CN203	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
C386	1-126-947-11	ELECT	47uF 20% 25V	CN303	1-564-506-11	PLUG, CONNECTOR 3P	
				CN304	1-784-792-11	CONNECTOR, FFC 31P	
				CN306	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P	

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
CN307	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P		JR303	1-216-864-11	SHORT CHIP	0
CN310	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P		JR304	1-216-864-11	SHORT CHIP	0
CN311	1-568-828-11	CONNECTOR, FFC 9P					
CN312	1-784-780-11	CONNECTOR, FFC 19P		JR305	1-216-864-11	SHORT CHIP	0
		< DIODE/SHORT >		JR306	1-216-864-11	SHORT CHIP	0
D101	8-719-988-61	DIODE 1SS355TE-17 (AEP, UK)		JR307	1-216-864-11	SHORT CHIP	0
D102	6-500-522-21	DIODE 10EDB40-TB3		JR308	1-216-864-11	SHORT CHIP	0
D205	8-719-988-61	DIODE 1SS355TE-17		JR309	1-216-864-11	SHORT CHIP	0
D206	8-719-988-61	DIODE 1SS355TE-17					
D301	6-500-522-21	DIODE 10EDB40-TB3		JR310	1-216-864-11	SHORT CHIP	0
D302	6-500-522-21	DIODE 10EDB40-TB3		JR311	1-216-864-11	SHORT CHIP	0
D303	6-500-522-21	DIODE 10EDB40-TB3		JR312	1-216-864-11	SHORT CHIP	0
D304	6-500-522-21	DIODE 10EDB40-TB3		JR313	1-216-864-11	SHORT CHIP	0
D305	8-719-988-61	DIODE 1SS355TE-17		JR314	1-216-864-11	SHORT CHIP	0 (MX, E51) (SUFFIX-13)
D306	8-719-988-61	DIODE 1SS355TE-17					
D307	8-719-988-61	DIODE 1SS355TE-17		JR316	1-216-864-11	SHORT CHIP	0
D308	1-216-295-00	SHORT CHIP 0		JR317	1-216-864-11	SHORT CHIP	0
D311	8-719-988-61	DIODE 1SS355TE-17		JR321	1-216-864-11	SHORT CHIP	0
D312	8-719-083-63	DIODE UDZSTE-1713B		JR322	1-216-864-11	SHORT CHIP	0
D313	6-500-522-21	DIODE 10EDB40-TB3		JR325	1-216-864-11	SHORT CHIP	0
D314	6-500-522-21	DIODE 10EDB40-TB3					
D315	6-500-522-21	DIODE 10EDB40-TB3		JR326	1-216-864-11	SHORT CHIP	0
D316	6-500-522-21	DIODE 10EDB40-TB3		JR328	1-216-864-11	SHORT CHIP	0
D317	8-719-988-61	DIODE 1SS355TE-17		JR333	1-216-864-11	SHORT CHIP	0
D319	6-500-522-21	DIODE 10EDB40-TB3		JR334	1-216-864-11	SHORT CHIP	0 (MX, E51)
D320	6-500-522-21	DIODE 10EDB40-TB3		JR336	1-216-864-11	SHORT CHIP	0
D321	6-500-522-21	DIODE 10EDB40-TB3					
D322	6-500-522-21	DIODE 10EDB40-TB3		JR337	1-216-864-11	SHORT CHIP	0
D324	8-719-988-61	DIODE 1SS355TE-17 (SUFFIX-13)		JR339	1-216-864-11	SHORT CHIP	0
D364	8-719-988-61	DIODE 1SS355TE-17		JR341	1-216-864-11	SHORT CHIP	0
				JR343	1-216-864-11	SHORT CHIP	0 (SUFFIX-13)
D371	8-719-988-61	DIODE 1SS355TE-17					
D372	8-719-988-61	DIODE 1SS355TE-17					
D374	8-719-988-61	DIODE 1SS355TE-17					
		< GROUND TERMINAL >					
* GA1	1-537-738-21	TERMINAL, EARTH					
		< IC >					
IC201	6-702-130-01	IC HA12237F					
IC301	6-703-650-11	IC M61529FP-D60G					
IC303	6-704-074-01	IC NJM2156M (TE2)					
IC304	8-759-710-97	IC NJM4565M-D					
IC305	8-759-701-59	IC NJM78M09FA					
IC306	6-701-760-01	IC uPC3504AHF					
IC308	8-759-701-59	IC NJM78M09FA					
IC309	6-704-046-01	IC BU2099FV					
IC310	6-704-046-01	IC BU2099FV					
IC313	8-759-231-57	IC TA7810S					
		< JACK >					
JK302	1-793-987-11	JACK, PIN 2P (MD (VIDEO) IN)					
		< SHORT >					
JR124	1-216-864-11	SHORT CHIP 0 (AEP, UK, CIS)					
JR300	1-216-864-11	SHORT CHIP 0					
JR302	1-216-864-11	SHORT CHIP 0 (SUFFIX-11)					

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
Q331	6-550-289-01	TRANSISTOR	2SA1235F			R317	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q372	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R318	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q373	8-729-142-46	TRANSISTOR	2SC2001-LK			R319	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q491	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R320	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q492	8-729-045-62	FET	2SK2158-T2B			R321	1-216-835-11	METAL CHIP	15K	5%	1/10W
< RESISTOR >						R322	1-216-835-11	METAL CHIP	15K	5%	1/10W
R101	1-216-833-11	METAL CHIP	10K	5%	1/10W	R323	1-216-821-11	METAL CHIP	1K	5%	1/10W
R102	1-216-833-11	METAL CHIP	10K	5%	1/10W	R324	1-216-821-11	METAL CHIP	1K	5%	1/10W
R215	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R325	1-216-833-11	METAL CHIP	10K	5%	1/10W
R216	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R326	1-216-833-11	METAL CHIP	10K	5%	1/10W
R220	1-216-833-11	METAL CHIP	10K	5%	1/10W	R327	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (MX, E51)
R225	1-216-833-11	METAL CHIP	10K	5%	1/10W	R328	1-216-839-11	METAL CHIP	33K	5%	1/10W
R226	1-216-833-11	METAL CHIP	10K	5%	1/10W	R329	1-216-295-00	SHORT CHIP	0 (SUFFIX-13)		
R231	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R330	1-216-833-11	METAL CHIP	10K	5%	1/10W
R232	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R331	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (AEP, UK, CIS)
R233	1-216-837-11	METAL CHIP	22K	5%	1/10W	R331	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (MX, E51)
R234	1-216-837-11	METAL CHIP	22K	5%	1/10W	R332	1-216-841-11	METAL CHIP	47K	5%	1/10W
R235	1-216-833-11	METAL CHIP	10K	5%	1/10W	R333	1-216-833-11	METAL CHIP	10K	5%	1/10W
R241	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R334	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R242	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R335	1-216-842-11	METAL CHIP	56K	5%	1/10W
R245	1-216-833-11	METAL CHIP	10K	5%	1/10W	R336	1-216-836-11	METAL CHIP	18K	5%	1/10W (AEP, UK, CIS)
R246	1-216-841-11	METAL CHIP	47K	5%	1/10W	R336	1-216-838-11	METAL CHIP	27K	5%	1/10W (MX, E51)
R251	1-216-793-11	METAL CHIP	4.7	5%	1/10W	R337	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R252	1-216-837-11	METAL CHIP	22K	5%	1/10W	R338	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R253	1-216-833-11	METAL CHIP	10K	5%	1/10W	R339	1-216-821-11	METAL CHIP	1K	5%	1/10W
R260	1-216-813-11	METAL CHIP	220	5%	1/10W	R340	1-216-830-11	METAL CHIP	5.6K	5%	1/10W (MX, E51)
R265	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R340	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP, UK, CIS)
R266	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R341	1-216-833-11	METAL CHIP	10K	5%	1/10W (SUFFIX-13)
R267	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R346	1-216-837-11	METAL CHIP	22K	5%	1/10W
R268	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R347	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R269	1-216-833-11	METAL CHIP	10K	5%	1/10W	R348	1-216-864-11	SHORT CHIP	0		
R270	1-216-833-11	METAL CHIP	10K	5%	1/10W	R352	1-218-717-11	METAL CHIP	11K	5%	1/10W
R271	1-216-833-11	METAL CHIP	10K	5%	1/10W	R353	1-218-717-11	METAL CHIP	11K	5%	1/10W
R272	1-216-833-11	METAL CHIP	10K	5%	1/10W	R354	1-216-841-11	METAL CHIP	47K	5%	1/10W
R273	1-216-833-11	METAL CHIP	10K	5%	1/10W	R355	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R278	1-216-837-11	METAL CHIP	22K	5%	1/10W	R356	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R282	1-216-809-11	METAL CHIP	100	5%	1/10W	R358	1-216-837-11	METAL CHIP	22K	5%	1/10W
R283	1-216-833-11	METAL CHIP	10K	5%	1/10W	R359	1-216-853-11	METAL CHIP	470K	5%	1/10W
R284	1-216-833-11	METAL CHIP	10K	5%	1/10W	R361	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R285	1-216-833-11	METAL CHIP	10K	5%	1/10W	R362	1-216-837-11	METAL CHIP	22K	5%	1/10W
R286	1-216-833-11	METAL CHIP	10K	5%	1/10W	R363	1-216-837-11	METAL CHIP	22K	5%	1/10W
R287	1-216-833-11	METAL CHIP	10K	5%	1/10W	R364	1-216-845-11	METAL CHIP	100K	5%	1/10W
R288	1-216-833-11	METAL CHIP	10K	5%	1/10W	R365	1-216-857-11	METAL CHIP	1M	5%	1/10W
R299	1-216-833-11	METAL CHIP	10K	5%	1/10W (SUFFIX-13)	R366	1-216-814-11	METAL CHIP	270	5%	1/10W
R300	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R367	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R301	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R368	1-216-809-11	METAL CHIP	100	5%	1/10W
R302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R370	1-216-833-11	METAL CHIP	10K	5%	1/10W
R303	1-216-837-11	METAL CHIP	22K	5%	1/10W	R371	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R304	1-216-837-11	METAL CHIP	22K	5%	1/10W	R372	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R307	1-216-809-11	METAL CHIP	100	5%	1/10W	R375	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (MX, E51)
R309	1-216-864-11	SHORT CHIP	0								
R310	1-216-864-11	SHORT CHIP	0								
R313	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R314	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R315	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R316	1-216-833-11	METAL CHIP	10K	5%	1/10W						

MAIN						MICROPHONE						MOTOR (LD)						MOTOR (TB)					
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R375	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP, UK, CIS)	△ R434	1-215-891-11	METAL OXIDE	680	5%	2W F	R455	1-218-717-11	METAL CHIP	11K	5%	1/10W	R460	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R378	1-216-833-11	METAL CHIP	10K	5%	1/10W	R461	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R466	1-216-837-11	METAL CHIP	22K	5%	1/10W	R467	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R379	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R468	1-216-844-11	METAL CHIP	82K	5%	1/10W	R470	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R478	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R380	1-216-853-11	METAL CHIP	470K	5%	1/10W	R479	1-216-841-11	METAL CHIP	47K	5%	(MX, E51) 1/10W	R480	1-216-833-11	METAL CHIP	10K	5%	1/10W	R481	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R384	1-216-821-11	METAL CHIP	1K	5%	1/10W	R482	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R483	1-216-821-11	METAL CHIP	1K	5%	1/10W	R484	1-216-833-11	METAL CHIP	10K	5%	1/10W
R386	1-216-833-11	METAL CHIP	10K	5%	1/10W	R485	1-216-809-11	METAL CHIP	100	5%	1/10W	R486	1-216-809-11	METAL CHIP	100	5%	1/10W	R487	1-216-296-11	SHORT CHIP	0		
R387	1-216-834-11	METAL CHIP	12K	5%	1/10W	R488	1-216-296-11	SHORT CHIP	0			R491	1-216-849-11	METAL CHIP	220K	5%	1/10W	R492	1-216-849-11	METAL CHIP	220K	5%	1/10W
R388	1-216-821-11	METAL CHIP	1K	5%	1/10W	R493	1-216-845-11	METAL CHIP	100K	5%	1/10W	R494	1-216-849-11	METAL CHIP	220K	5%	1/10W	R495	1-216-837-11	METAL CHIP	22K	5%	1/10W
R390	1-216-833-11	METAL CHIP	10K	5%	1/10W (SUFFIX-13)	R498	1-216-833-11	METAL CHIP	10K	5%	1/10W (SUFFIX-13)	R499	1-216-833-11	METAL CHIP	10K	5%	1/10W (SUFFIX-13)	*****					
R391	1-216-841-11	METAL CHIP	47K	5%	1/10W	1-688-547-11 MICROPHONE BOARD (MX, E51) *****						< CONNECTOR >						* CN402 1-695-326-31 PIN, CONNECTOR (PC BOARD) 3P					
R392	1-216-813-11	METAL CHIP	220	5%	1/10W	< JACK >						J401 1-770-226-11 JACK (LARGE TYPE) (MIC) *****						1-687-133-11 MOTOR (LD) BOARD *****					
R393	1-216-833-11	METAL CHIP	10K	5%	1/10W	*****						1-687-134-11 MOTOR (TB) BOARD *****						< CONNECTOR >					
R394	1-216-001-00	RES-CHIP	10	5%	1/10W	CN742 1-784-727-11 CONNECTOR, FFC 5P *****																	
R395	1-216-825-11	METAL CHIP	2.2K	5%	1/10W																		
R396	1-216-825-11	METAL CHIP	2.2K	5%	1/10W																		
R397	1-216-821-11	METAL CHIP	1K	5%	1/10W																		
R398	1-216-830-11	METAL CHIP	5.6K	5%	1/10W (MX, E51)																		
R398	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP, UK, CIS)																		
R399	1-216-830-11	METAL CHIP	5.6K	5%	1/10W (MX, E51)																		
R399	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP, UK, CIS)																		
R400	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R401	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R402	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R403	1-216-820-11	METAL CHIP	820	5%	1/10W (MX, E51)																		
R403	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (AEP, UK, CIS)																		
R404	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R405	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R406	1-216-837-11	METAL CHIP	22K	5%	1/10W																		
R407	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R408	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R409	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R410	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R412	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R413	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R414	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R415	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R416	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R417	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R418	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R419	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R421	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R424	1-216-837-11	METAL CHIP	22K	5%	1/10W																		
R425	1-216-837-11	METAL CHIP	22K	5%	1/10W																		
R426	1-216-837-11	METAL CHIP	22K	5%	1/10W																		
R427	1-216-296-11	SHORT CHIP	0																				
R428	1-216-296-11	SHORT CHIP	0																				
R430	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R431	1-216-847-11	METAL CHIP	150K	5%	1/10W																		
R432	1-216-809-11	METAL CHIP	100	5%	1/10W																		
△ R433	1-215-891-11	METAL OXIDE	680	5%	2W F																		

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

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PANEL

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R115	1-249-417-11	CARBON	1K	5%	1/4W (AEP, UK)	R308	1-249-425-11	CARBON	4.7K	5%	1/4W
R116	1-249-393-11	CARBON	10	5%		R309	1-249-427-11	CARBON	6.8K	5%	1/4W
R119	1-216-864-11	SHORT CHIP	0			R311	1-249-413-11	CARBON	470	5%	1/4W
R120	1-216-845-11	METAL CHIP	100K	5%	1/10W	R312	1-249-415-11	CARBON	680	5%	1/4W
R121	1-216-849-11	METAL CHIP	220K	5%	1/10W	R313	1-249-417-11	CARBON	1K	5%	1/4W
R122	1-216-837-11	METAL CHIP	22K	5%	1/10W	R314	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R125	1-249-433-11	CARBON	22K	5%	1/4W	R315	1-216-202-00	RES-CHIP	1.5K	5%	1/8W
R126	1-249-433-11	CARBON	22K	5%	1/4W	R316	1-249-421-11	CARBON	2.2K	5%	1/4W
R201	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R317	1-247-843-11	CARBON	3.3K	5%	1/4W
R202	1-216-809-11	METAL CHIP	100	5%	1/10W	R318	1-249-425-11	CARBON	4.7K	5%	1/4W
R203	1-216-849-11	METAL CHIP	220K	5%	1/10W	R319	1-249-427-11	CARBON	6.8K	5%	1/4W
R204	1-216-840-11	METAL CHIP	39K	5%	1/10W	R320	1-249-429-11	CARBON	10K	5%	1/4W
R205	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R321	1-249-413-11	CARBON	470	5%	1/4W
R206	1-216-864-11	SHORT CHIP	0			R322	1-249-415-11	CARBON	680	5%	1/4W
R208	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R323	1-216-821-11	METAL CHIP	1K	5%	1/10W
R210	1-216-809-11	METAL CHIP	100	5%	1/10W	R324	1-249-419-11	CARBON	1.5K	5%	1/4W
R211	1-216-833-11	METAL CHIP	10K	5%	1/10W	R325	1-249-419-11	CARBON	1.5K	5%	1/4W
R212	1-216-851-11	METAL CHIP	330K	5%	1/10W	R326	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R213	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R351	1-249-431-11	CARBON	15K	5%	1/4W
R214	1-216-849-11	METAL CHIP	220K	5%	1/10W	R352	1-249-431-11	CARBON	15K	5%	1/4W
R215	1-216-809-11	METAL CHIP	100	5%	1/10W	R353	1-249-431-11	CARBON	15K	5%	1/4W
R216	1-216-851-11	METAL CHIP	330K	5%	1/10W	R401	1-216-845-11	METAL CHIP	100K	5%	1/10W
R217	1-216-849-11	METAL CHIP	220K	5%	1/10W	R402	1-216-829-11	METAL CHIP	4.7K	5%	(MX, E51) 1/10W
R218	1-216-809-11	METAL CHIP	100	5%	1/10W	R403	1-216-849-11	METAL CHIP	220K	5%	(MX, E51) 1/10W
R219	1-216-833-11	METAL CHIP	10K	5%	1/10W	R404	1-216-809-11	METAL CHIP	100	5%	(MX, E51) 1/10W
R220	1-216-849-11	METAL CHIP	220K	5%	1/10W	R405	1-216-825-11	METAL CHIP	2.2K	5%	(MX, E51) 1/10W
R221	1-216-841-11	METAL CHIP	47K	5%	1/10W	R406	1-216-850-11	METAL CHIP	270K	5%	1/10W (MX, E51)
R222	1-216-849-11	METAL CHIP	220K	5%	1/10W	R407	1-216-821-11	METAL CHIP	1K	5%	1/10W (MX, E51)
R223	1-216-809-11	METAL CHIP	100	5%	1/10W	R408	1-247-807-31	CARBON	100	5%	1/4W (MX, E51)
R226	1-249-429-11	CARBON	10K	5%	1/4W	R409	1-249-413-11	CARBON	470	5%	1/4W (MX, E51)
R227	1-216-222-00	RES-CHIP	10K	5%	1/8W	R410	1-216-833-11	METAL CHIP	10K	5%	1/10W (MX, E51)
R228	1-249-429-11	CARBON	10K	5%	1/4W	R411	1-216-834-11	METAL CHIP	12K	5%	1/10W (MX, E51)
R231	1-249-417-11	CARBON	1K	5%	1/4W	R412	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (MX, E51)
R232	1-249-417-11	CARBON	1K	5%	1/4W	R413	1-216-840-11	METAL CHIP	39K	5%	1/10W (MX, E51)
R233	1-216-198-00	RES-CHIP	1K	5%	1/8W	R414	1-216-797-11	METAL CHIP	10	5%	1/10W (MX, E51)
R234	1-249-417-11	CARBON	1K	5%	1/4W	R415	1-247-807-31	CARBON	100	5%	1/4W (MX, E51)
R235	1-249-417-11	CARBON	1K	5%	1/4W	R416	1-247-889-00	CARBON	270K	5%	1/4W (MX, E51)
R236	1-216-196-00	RES-CHIP	820	5%	1/8W	R417	1-249-431-11	CARBON	15K	5%	1/4W (MX, E51)
R237	1-216-196-00	RES-CHIP	820	5%	1/8W	R418	1-216-853-11	METAL CHIP	470K	5%	1/10W (MX, E51)
R238	1-249-417-11	CARBON	1K	5%	1/4W	R419	1-216-821-11	METAL CHIP	1K	5%	1/10W (MX, E51)
R239	1-216-196-00	RES-CHIP	820	5%	1/8W	R432	1-216-841-11	METAL CHIP	47K	5%	1/10W (MX, E51)
R240	1-249-416-11	CARBON	820	5%	1/4W						
R243	1-216-198-00	RES-CHIP	1K	5%	1/8W						
R245	1-249-429-11	CARBON	10K	5%	1/4W						
R246	1-216-222-00	RES-CHIP	10K	5%	1/8W						
R247	1-249-429-11	CARBON	10K	5%	1/4W						
R248	1-249-433-11	CARBON	22K	5%	1/4W						
R249	1-249-433-11	CARBON	22K	5%	1/4W						
R250	1-249-433-11	CARBON	22K	5%	1/4W						
R252	1-247-807-31	CARBON	100	5%	1/4W						
R301	1-249-413-11	CARBON	470	5%	1/4W						
R302	1-249-415-11	CARBON	680	5%	1/4W						
R303	1-249-417-11	CARBON	1K	5%	1/4W						
R304	1-216-823-11	METAL CHIP	1.5K	5%	1/10W						
R305	1-216-823-11	METAL CHIP	1.5K	5%	1/10W						
R306	1-249-421-11	CARBON	2.2K	5%	1/4W						
R307	1-247-843-11	CARBON	3.3K	5%	1/4W						

PANEL

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R501	1-216-190-00	RES-CHIP	470	5%	1/8W	R902	1-216-845-11	METAL CHIP	100K	5%	1/10W
R502	1-216-841-11	METAL CHIP	47K	5%	1/10W	R903	1-216-845-11	METAL CHIP	100K	5%	1/10W
R503	1-216-841-11	METAL CHIP	47K	5%	1/10W	R904	1-216-845-11	METAL CHIP	100K	5%	1/10W
R504	1-216-833-11	METAL CHIP	10K	5%	1/10W	R905	1-216-845-11	METAL CHIP	100K	5%	1/10W
R505	1-249-425-11	CARBON	4.7K	5%	1/4W	R906	1-216-845-11	METAL CHIP	100K	5%	1/10W
R506	1-216-190-00	RES-CHIP	470	5%	1/8W	R907	1-216-845-11	METAL CHIP	100K	5%	1/10W
R507	1-249-429-11	CARBON	10K	5%	1/4W	R908	1-216-845-11	METAL CHIP	100K	5%	1/10W
R601	1-216-841-11	METAL CHIP	47K	5%	1/10W	R909	1-216-845-11	METAL CHIP	100K	5%	1/10W
R602	1-216-841-11	METAL CHIP	47K	5%	1/10W	R910	1-216-845-11	METAL CHIP	100K	5%	1/10W
R603	1-216-841-11	METAL CHIP	47K	5%	1/10W	R911	1-216-845-11	METAL CHIP	100K	5%	1/10W
R604	1-216-841-11	METAL CHIP	47K	5%	1/10W	R912	1-216-845-11	METAL CHIP	100K	5%	1/10W
R605	1-216-841-11	METAL CHIP	47K	5%	1/10W	R913	1-216-845-11	METAL CHIP	100K	5%	1/10W
R606	1-216-841-11	METAL CHIP	47K	5%	1/10W	R914	1-216-845-11	METAL CHIP	100K	5%	1/10W
R607	1-216-821-11	METAL CHIP	1K	5%	1/10W	R915	1-216-845-11	METAL CHIP	100K	5%	1/10W
R608	1-216-821-11	METAL CHIP	1K	5%	1/10W	R916	1-216-845-11	METAL CHIP	100K	5%	1/10W
R609	1-216-821-11	METAL CHIP	1K	5%	1/10W	R917	1-216-845-11	METAL CHIP	100K	5%	1/10W
R610	1-216-821-11	METAL CHIP	1K	5%	1/10W	R918	1-216-845-11	METAL CHIP	100K	5%	1/10W
R611	1-216-821-11	METAL CHIP	1K	5%	1/10W	R919	1-216-845-11	METAL CHIP	100K	5%	1/10W
R612	1-216-821-11	METAL CHIP	1K	5%	1/10W	R920	1-216-845-11	METAL CHIP	100K	5%	1/10W
R613	1-249-421-11	CARBON	2.2K	5%	1/4W	R921	1-216-845-11	METAL CHIP	100K	5%	1/10W
R614	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R922	1-216-845-11	METAL CHIP	100K	5%	1/10W
R615	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R923	1-216-845-11	METAL CHIP	100K	5%	1/10W
R616	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R924	1-216-845-11	METAL CHIP	100K	5%	1/10W
R617	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R925	1-216-845-11	METAL CHIP	100K	5%	1/10W
R618	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R926	1-216-845-11	METAL CHIP	100K	5%	1/10W
R619	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R927	1-216-845-11	METAL CHIP	100K	5%	1/10W
R620	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R928	1-216-845-11	METAL CHIP	100K	5%	1/10W
R621	1-216-841-11	METAL CHIP	47K	5%	1/10W	R929	1-216-845-11	METAL CHIP	100K	5%	1/10W
R622	1-216-841-11	METAL CHIP	47K	5%	1/10W	R930	1-216-845-11	METAL CHIP	100K	5%	1/10W
R701	1-216-809-11	METAL CHIP	100	5%	1/10W	R931	1-216-845-11	METAL CHIP	100K	5%	1/10W
R702	1-216-809-11	METAL CHIP	100	5%	1/10W	R932	1-216-845-11	METAL CHIP	100K	5%	1/10W
R703	1-216-809-11	METAL CHIP	100	5%	1/10W	R933	1-216-845-11	METAL CHIP	100K	5%	1/10W
R704	1-216-809-11	METAL CHIP	100	5%	1/10W	R934	1-216-845-11	METAL CHIP	100K	5%	1/10W
R705	1-216-809-11	METAL CHIP	100	5%	1/10W	R935	1-216-845-11	METAL CHIP	100K	5%	1/10W
R706	1-216-174-00	RES-CHIP	100	5%	1/8W	R936	1-216-845-11	METAL CHIP	100K	5%	1/10W
R707	1-216-809-11	METAL CHIP	100	5%	1/10W	R937	1-216-845-11	METAL CHIP	100K	5%	1/10W
R708	1-216-809-11	METAL CHIP	100	5%	1/10W	R938	1-216-845-11	METAL CHIP	100K	5%	1/10W
R709	1-216-809-11	METAL CHIP	100	5%	1/10W	R939	1-216-845-11	METAL CHIP	100K	5%	1/10W
R801	1-216-833-11	METAL CHIP	10K	5%	1/10W	R940	1-216-845-11	METAL CHIP	100K	5%	1/10W
R802	1-216-833-11	METAL CHIP	10K	5%	1/10W	R942	1-249-421-11	CARBON	2.2K	5%	1/4W
R803	1-216-797-11	METAL CHIP	10	5%	1/10W	R943	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R804	1-216-797-11	METAL CHIP	10	5%	1/10W	R944	1-249-432-11	CARBON	18K	5%	1/4W
R805	1-249-429-11	CARBON	10K	5%	1/4W	R945	1-249-432-11	CARBON	18K	5%	1/4W
R806	1-249-429-11	CARBON	10K	5%	1/4W	R946	1-249-441-11	CARBON	100K	5%	1/4W
R807	1-216-797-11	METAL CHIP	10	5%	1/10W	R947	1-249-441-11	CARBON	100K	5%	1/4W
R808	1-216-797-11	METAL CHIP	10	5%	1/10W	R948	1-216-845-11	METAL CHIP	100K	5%	1/10W
R809	1-249-429-11	CARBON	10K	5%	1/4W	R949	1-216-845-11	METAL CHIP	100K	5%	1/10W
R810	1-249-429-11	CARBON	10K	5%	1/4W	R950	1-249-441-11	CARBON	100K	5%	1/4W
R811	1-249-393-11	CARBON	10	5%	1/4W	R951	1-249-441-11	CARBON	100K	5%	1/4W
R812	1-249-393-11	CARBON	10	5%	1/4W	R952	1-216-845-11	METAL CHIP	100K	5%	1/10W
R813	1-216-833-11	METAL CHIP	10K	5%	1/10W	R953	1-216-845-11	METAL CHIP	100K	5%	1/10W
R814	1-216-833-11	METAL CHIP	10K	5%	1/10W	R954	1-249-419-11	CARBON	1.5K	5%	1/4W
R815	1-216-797-11	METAL CHIP	10	5%	1/10W	R955	1-249-441-11	CARBON	100K	5%	1/4W
R816	1-216-797-11	METAL CHIP	10	5%	1/10W	R957	1-249-441-11	CARBON	100K	5%	1/4W
R817	1-249-401-11	CARBON	47	5%	1/4W	R958	1-218-463-11	RES-CHIP	8.2M	5%	1/10W
R818	1-216-842-11	METAL CHIP	56K	5%	1/10W	R959	1-216-853-11	METAL CHIP	470K	5%	1/10W
R901	1-216-845-11	METAL CHIP	100K	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

PANEL

POWER

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
				X902	1-795-880-11	VIBRATOR, CERAMIC (8.64MHz)	
R962	1-216-821-11	METAL CHIP	1K 5% 1/10W	*****			
R963	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R964	1-216-833-11	METAL CHIP	10K 5% 1/10W		A-4734-182-A	POWER BOARD, COMPLETE (AEP, UK, CIS)	
R972	1-216-864-11	SHORT CHIP	0		A-4734-289-A	POWER BOARD, COMPLETE (E51)	
R973	1-216-864-11	SHORT CHIP	0		A-4734-705-A	POWER BOARD, COMPLETE (MX)	

R974	1-216-864-11	SHORT CHIP	0				
R975	1-216-864-11	SHORT CHIP	0			< CAPACITOR >	
R976	1-216-864-11	SHORT CHIP	0				
R977	1-216-864-11	SHORT CHIP	0	C5	1-165-621-11	CERAMIC CHIP	0.1uF 50V
R978	1-216-864-11	SHORT CHIP	0	C6	1-165-621-11	CERAMIC CHIP	0.1uF 50V
				C7	1-165-621-11	CERAMIC CHIP	0.1uF 50V
R979	1-216-864-11	SHORT CHIP	0	C8	1-165-621-11	CERAMIC CHIP	0.1uF 50V
R980	1-216-864-11	SHORT CHIP	0	C9	1-135-516-11	ELECT	3300uF 20% 63V
R981	1-216-864-11	SHORT CHIP	0				(AEP, UK, CIS)
R986	1-216-864-11	SHORT CHIP	0				
		< SWITCH/ROTARY ENCODER >		C10	1-135-516-11	ELECT	3300uF 20% 63V
							(AEP, UK, CIS)
S301	1-762-875-21	SWITCH, KEYBOARD (i-BASS)		C11	1-126-955-11	ELECT	4700uF 20% 35V
S302	1-762-875-21	SWITCH, KEYBOARD (SURROUND)		C12	1-126-955-11	ELECT	4700uF 20% 35V
S303	1-762-875-21	SWITCH, KEYBOARD		C14	1-127-814-11	ELECT	3300uF 20% 80V
		(◀◀ TUNING DOWN ◀◀)					(MX, E51)
S304	1-762-875-21	SWITCH, KEYBOARD (■)		C15	1-127-814-11	ELECT	3300uF 20% 80V
S305	1-762-875-21	SWITCH, KEYBOARD (◀▶ DIR (TAPE B))					(MX, E51)
				C18	1-130-777-00	MYLAR	0.1uF 10% 100V
S306	1-762-875-21	SWITCH, KEYBOARD (■)		C19	1-130-777-00	MYLAR	0.1uF 10% 100V
S307	1-762-875-21	SWITCH, KEYBOARD (TUNING UP ▶▶▶ ▶▶▶)		C22	1-126-960-11	ELECT	1uF 20% 50V
S308	1-762-875-21	SWITCH, KEYBOARD (ALBUM ▼, PTY)		C23	1-126-957-11	ELECT	0.22uF 20% 50V
		(AEP, UK)		C24	1-126-947-11	ELECT	47uF 20% 25V
S308	1-762-875-21	SWITCH, KEYBOARD (ALBUM ▼)					
		(CIS, MX, E51)		C25	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
S309	1-762-875-21	SWITCH, KEYBOARD (ALBUM ▲)		C26	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V
				C30	1-162-961-11	CERAMIC CHIP	330PF 10% 50V
S311	1-762-875-21	SWITCH, KEYBOARD (HEAVY)		C31	1-162-961-11	CERAMIC CHIP	330PF 10% 50V
S312	1-762-875-21	SWITCH, KEYBOARD (VOCAL)		C33	1-126-967-11	ELECT	47uF 20% 50V
S313	1-762-875-21	SWITCH, KEYBOARD (SALASA)					
S314	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)		C34	1-128-552-51	ELECT	47uF 20% 63V
S315	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)		C35	1-164-344-11	CERAMIC CHIP	0.068uF 10% 25V
				C36	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
S316	1-762-875-21	SWITCH, KEYBOARD (MANUAL)					(AEP, UK, CIS)
S317	1-762-875-21	SWITCH, KEYBOARD (HIP POP)		C37	1-128-552-51	ELECT	47uF 20% 63V
S318	1-762-875-21	SWITCH, KEYBOARD (TECHNO)		C38	1-162-959-11	CERAMIC CHIP	330PF 5% 50V
S319	1-762-875-21	SWITCH, KEYBOARD (MODE)					(MX, E51)
S320	1-762-875-21	SWITCH, KEYBOARD (ENTER)					
				C40	1-162-961-11	CERAMIC CHIP	330PF 10% 50V
S321	1-762-875-21	SWITCH, KEYBOARD		C41	1-126-967-11	ELECT	47uF 20% 50V
		(POWER ⏻ STANDBY/ON)		C42	1-162-945-11	CERAMIC CHIP	22PF 5% 50V
S322	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)		C43	1-162-959-11	CERAMIC CHIP	330PF 5% 50V
S323	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)		C45	1-162-961-11	CERAMIC CHIP	330PF 10% 50V
S324	1-762-875-21	SWITCH, KEYBOARD (TUNER BAND)					
S325	1-762-875-21	SWITCH, KEYBOARD (MD (VIDEO))		C501	1-162-974-11	CERAMIC CHIP	0.01uF 50V
				C502	1-162-974-11	CERAMIC CHIP	0.01uF 50V
S326	1-762-875-21	SWITCH, KEYBOARD (CD)		C503	1-164-156-11	CERAMIC CHIP	0.1uF 25V
S801	1-786-396-11	SW, RTRY EC12E24604-30MM (VOLUME)		C504	1-164-156-11	CERAMIC CHIP	0.1uF 25V
S802	1-786-396-11	SW, RTRY EC12E24604-30MM (BASS)		C505	1-100-152-11	CERAMIC CHIP	100PF 5% 100V
S803	1-786-418-11	SW, RTRY RE0123PVB30F (MULTI JOG)					
S804	1-477-824-11	ENCODER, ROTARY (TREBLE, MIDDLE)		C506	1-100-152-11	CERAMIC CHIP	100PF 5% 100V
				C507	1-100-152-11	CERAMIC CHIP	100PF 5% 100V
		< VARIABLE RESISTOR >		C508	1-100-152-11	CERAMIC CHIP	100PF 5% 100V
VR401	1-227-502-11	RES, VAR, CARBON 10K (MIC MIXING)		C509	1-164-733-11	CERAMIC CHIP	820PF 10% 50V
		(MX, E51)		C510	1-164-733-11	CERAMIC CHIP	820PF 10% 50V
		< VIBRATOR >		C511	1-126-966-11	ELECT	33uF 20% 35V
				C512	1-126-966-11	ELECT	33uF 20% 35V
X901	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)		C513	1-126-965-11	ELECT	22uF 20% 50V
				C514	1-126-965-11	ELECT	22uF 20% 50V
				C517	1-126-957-11	ELECT	0.22uF 20% 50V

POWER

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C518	1-126-957-11	ELECT	0.22uF 20% 50V	D38	8-719-988-61	DIODE 1SS355TE-17	
C519	1-164-733-11	CERAMIC CHIP	820PF 10% 50V	D39	8-719-988-61	DIODE 1SS355TE-17	
C520	1-164-733-11	CERAMIC CHIP	820PF 10% 50V	D40	8-719-988-61	DIODE 1SS355TE-17	
C521	1-126-959-11	ELECT	0.47uF 20% 50V	D41	8-719-312-08	DIODE FMB-G16L (MX, E51)	
C522	1-126-959-11	ELECT	0.47uF 20% 50V	D42	8-719-312-08	DIODE FMB-G16L (MX, E51)	
C523	1-164-156-11	CERAMIC CHIP	0.1uF 25V	D501	6-500-334-01	DIODE MC2836	
C524	1-165-621-11	CERAMIC CHIP	0.1uF 50V	D502	6-500-334-01	DIODE MC2836	
C525	1-165-621-11	CERAMIC CHIP	0.1uF 50V	D503	6-500-335-01	DIODE MC2838	
C526	1-165-621-11	CERAMIC CHIP	0.1uF 50V	D504	6-500-335-01	DIODE MC2838	
C527	1-165-621-11	CERAMIC CHIP	0.1uF 50V	D505	8-719-970-83	DIODE HSS82-TJ	
C529	1-126-961-11	ELECT	2.2uF 20% 50V	D506	8-719-970-83	DIODE HSS82-TJ	
C530	1-164-156-11	CERAMIC CHIP	0.1uF 25V	D507	8-719-988-61	DIODE 1SS355TE-17	
C531	1-104-665-11	ELECT	100uF 20% 10V	D508	8-719-988-61	DIODE 1SS355TE-17	
C532	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	D509	6-500-335-01	DIODE MC2838	
C533	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	D510	6-500-334-01	DIODE MC2836	
C534	1-165-621-11	CERAMIC CHIP	0.1uF 50V	D511	8-719-988-61	DIODE 1SS355TE-17	
C535	1-165-621-11	CERAMIC CHIP	0.1uF 50V	D513	8-719-988-61	DIODE 1SS355TE-17	
C538	1-165-112-11	CERAMIC CHIP	0.33uF 16V	D514	8-719-988-61	DIODE 1SS355TE-17	
C540	1-107-714-11	ELECT	10uF 20% 16V	D515	8-719-083-70	DIODE UDZSTE-1727B	
C541	1-165-621-11	CERAMIC CHIP	0.1uF 50V	< GROUND TERMINAL >			
C542	1-165-621-11	CERAMIC CHIP	0.1uF 50V	* EP01	1-537-738-21	TERMINAL, EARTH	
C543	1-165-621-11	CERAMIC CHIP	0.1uF 50V	* EP501	1-537-738-21	TERMINAL, EARTH	
C544	1-165-621-11	CERAMIC CHIP	0.1uF 50V	< TERMINAL BOARD >			
< CONNECTOR >				JK502	1-694-884-11	TERMINAL BOARD (4P) (SPEAKER)	
CN501	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P		< SHORT >			
CN502	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P		JR2	1-216-864-11	SHORT CHIP 0	
< DIODE >				JR511	1-216-864-11	SHORT CHIP 0	
D1	6-500-340-01	DIODE G5SBA60L-6088 (MX, E51)		JR512	1-216-864-11	SHORT CHIP 0	
D2	6-500-340-01	DIODE G5SBA60L-6088		JR513	1-216-296-11	SHORT CHIP 0	
D3	6-500-378-01	DIODE 1N5402GW (F20) (AEP, UK, CIS)		JR514	1-216-864-11	SHORT CHIP 0	
D4	6-500-378-01	DIODE 1N5402GW (F20) (AEP, UK, CIS)		JR515	1-216-864-11	SHORT CHIP 0	
D5	6-500-378-01	DIODE 1N5402GW (F20) (AEP, UK, CIS)		JR516	1-216-864-11	SHORT CHIP 0	
D6	6-500-378-01	DIODE 1N5402GW (F20) (AEP, UK, CIS)		JR517	1-216-864-11	SHORT CHIP 0	
D11	8-719-988-61	DIODE 1SS355TE-17		< COIL >			
D12	6-500-334-01	DIODE MC2836		L501	1-422-009-13	COIL, AIR-CORE	
D13	6-500-335-01	DIODE MC2838		L502	1-422-009-13	COIL, AIR-CORE	
D16	6-500-335-01	DIODE MC2838		< TRANSISTOR >			
D17	6-500-334-01	DIODE MC2836		Q5	6-550-289-01	TRANSISTOR 2SA1235F	
D18	6-500-335-01	DIODE MC2838		Q6	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D19	6-500-334-01	DIODE MC2836		Q7	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D20	6-500-335-01	DIODE MC2838		Q8	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D23	8-719-988-61	DIODE 1SS355TE-17		Q9	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D24	8-719-988-61	DIODE 1SS355TE-17		Q10	6-550-316-01	TRANSISTOR 2SB792A (RS)	
D25	8-719-083-66	DIODE UDZSTE-1718B		Q11	8-729-055-91	TRANSISTOR SRA2202SF	
D26	6-500-378-01	DIODE 1N5402GW (F20) (AEP, UK, CIS)		Q12	6-550-646-01	TRANSISTOR 2SC3143K4/K5-TB	
D27	6-500-378-01	DIODE 1N5402GW (F20) (AEP, UK, CIS)		Q13	6-550-316-01	TRANSISTOR 2SB792A (RS)	
D29	8-719-988-61	DIODE 1SS355TE-17		Q17	6-550-289-01	TRANSISTOR 2SA1235F	
D30	8-719-083-52	DIODE UDZS-TE17-16B		Q18	6-550-040-01	FET 2SK3053	
D31	8-719-988-61	DIODE 1SS355TE-17		Q19	6-550-040-01	FET 2SK3053	
D32	8-719-988-61	DIODE 1SS355TE-17		Q20	6-550-317-01	TRANSISTOR 2SD814A (RS)	
D33	8-719-988-61	DIODE 1SS355TE-17		Q21	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D34	8-719-988-61	DIODE 1SS355TE-17		Q22	6-550-316-01	TRANSISTOR 2SB792A (RS)	
D35	8-719-988-61	DIODE 1SS355TE-17					
D36	8-719-988-61	DIODE 1SS355TE-17					
D37	8-719-988-61	DIODE 1SS355TE-17					

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Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
Q23	6-550-289-01	TRANSISTOR	2SA1235F			R22	1-216-839-11	METAL CHIP	33K	5%	1/10W
Q24	6-550-289-01	TRANSISTOR	2SA1235F			R23	1-216-839-11	METAL CHIP	33K	5%	1/10W
Q501	6-550-291-01	TRANSISTOR	FN1016 (AEP, UK, CIS)			R26	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
Q501	8-729-020-52	TRANSISTOR	2SD2439-OPY (MX, E51)			R27	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q502	6-550-291-01	TRANSISTOR	FN1016 (AEP, UK, CIS)			R28	1-216-198-00	RES-CHIP	1K	5%	1/8W
Q502	8-729-020-52	TRANSISTOR	2SD2439-OPY (MX, E51)			R29	1-216-138-00	METAL CHIP	3.3	5%	1/8W
Q503	6-550-292-01	TRANSISTOR	FP1016 (AEP, UK, CIS)			R31	1-216-296-11	SHORT CHIP	0		
Q503	8-729-020-48	TRANSISTOR	2SB1588-OPY (MX, E51)			R32	1-216-839-11	METAL CHIP	33K	5%	1/10W
Q504	6-550-292-01	TRANSISTOR	FP1016 (AEP, UK, CIS)			R32	1-216-840-11	METAL CHIP	39K	5%	1/10W (MX, E51) (AEP, UK, CIS)
Q504	8-729-020-48	TRANSISTOR	2SB1588-OPY (MX, E51)			R33	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q505	6-550-316-01	TRANSISTOR	2SB792A (RS)			R34	1-216-844-11	METAL CHIP	82K	5%	1/10W
Q506	6-550-316-01	TRANSISTOR	2SB792A (RS)			R35	1-216-839-11	METAL CHIP	33K	5%	1/10W
Q507	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R35	1-216-840-11	METAL CHIP	39K	5%	1/10W (MX, E51) (AEP, UK, CIS)
Q508	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R36	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q509	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R37	1-216-844-11	METAL CHIP	82K	5%	1/10W
Q510	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R38	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q511	6-550-413-01	TRANSISTOR	2SC3478LK			R39	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q512	6-550-413-01	TRANSISTOR	2SC3478LK			R40	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q513	6-550-413-01	TRANSISTOR	2SC3478LK			R41	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (AEP, UK, CIS)
Q514	6-550-413-01	TRANSISTOR	2SC3478LK			R41	1-216-833-11	METAL CHIP	10K	5%	1/10W (MX, E51)
Q515	6-550-317-01	TRANSISTOR	2SD814A (RS)			R42	1-216-824-11	METAL CHIP	1.8K	5%	1/10W (MX, E51)
Q516	6-550-317-01	TRANSISTOR	2SD814A (RS)			R42	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (AEP, UK, CIS)
Q517	6-550-316-01	TRANSISTOR	2SB792A (RS)			R43	1-216-824-11	METAL CHIP	1.8K	5%	1/10W (MX, E51)
Q518	6-550-316-01	TRANSISTOR	2SB792A (RS)			R43	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (AEP, UK, CIS)
Q519	6-550-316-01	TRANSISTOR	2SB792A (RS)			R44	1-216-242-11	RES-CHIP	68K	5%	1/8W (AEP, UK, CIS)
Q520	6-550-316-01	TRANSISTOR	2SB792A (RS)			R44	1-216-244-00	RES-CHIP	82K	5%	1/8W (MX, E51)
Q521	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R45	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q522	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R46	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q523	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R47	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q524	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R48	1-216-849-11	METAL CHIP	220K	5%	1/10W
Q525	8-729-422-35	TRANSISTOR	2SD601A-S-TX			R49	1-216-849-11	METAL CHIP	220K	5%	1/10W
Q526	8-729-422-35	TRANSISTOR	2SD601A-S-TX			R50	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q527	6-550-289-01	TRANSISTOR	2SA1235F			R51	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
Q529	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R52	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q530	6-550-289-01	TRANSISTOR	2SA1235F			R53	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
Q533	6-550-296-01	TRANSISTOR	2SA1980G (MX,E51)			R54	1-216-835-11	METAL CHIP	15K	5%	1/10W
Q534	6-550-296-01	TRANSISTOR	2SA1980G			R55	1-249-419-11	CARBON	1.5K	5%	1/4W
Q535	6-550-296-01	TRANSISTOR	2SA1980G			R56	1-216-204-00	RES-CHIP	1.8K	5%	1/8W
Q536	6-550-289-01	TRANSISTOR	2SA1235F			R58	1-216-186-00	RES-CHIP	330	5%	1/8W
< RESISTOR >						R59	1-216-184-00	RES-CHIP	270	5%	1/8W
R4	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R60	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R6	1-216-842-11	METAL CHIP	56K	5%	1/10W	R61	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R7	1-216-842-11	METAL CHIP	56K	5%	1/10W	R62	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8	1-216-842-11	METAL CHIP	56K	5%	1/10W	R63	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9	1-216-842-11	METAL CHIP	56K	5%	1/10W	R64	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R10	1-216-821-11	METAL CHIP	1K	5%	1/10W	R65	1-216-073-00	RES-CHIP	10K	5%	1/10W
R11	1-216-821-11	METAL CHIP	1K	5%	1/10W	R66	1-216-073-00	RES-CHIP	10K	5%	1/10W
R12	1-216-833-11	METAL CHIP	10K	5%	1/10W	R67	1-216-089-11	RES-CHIP	47K	5%	1/10W
R13	1-216-206-00	RES-CHIP	2.2K	5%	1/8W						
R14	1-218-867-11	METAL CHIP	6.8K	5%	1/10W						
R16	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R17	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R18	1-216-809-11	METAL CHIP	100	5%	1/10W						
R19	1-216-835-11	METAL CHIP	15K	5%	1/10W						
R20	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R21	1-216-835-11	METAL CHIP	15K	5%	1/10W						

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Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R68	1-216-073-00	RES-CHIP	10K	5%	1/10W	△ R503	1-245-545-11	METAL OXIDE	0.22	5%	3W F (MX, E51)
R69	1-216-833-11	METAL CHIP	10K	5%	1/10W	△ R504	1-245-545-11	METAL OXIDE	0.22	5%	3W F (MX, E51)
R70	1-216-835-11	METAL CHIP	15K	5%	1/10W	R505	1-216-809-11	METAL CHIP	100	5%	1/10W
R71	1-216-833-11	METAL CHIP	10K	5%	1/10W	R506	1-216-809-11	METAL CHIP	100	5%	1/10W
R72	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R507	1-216-822-11	METAL CHIP	1.2K	5%	1/10W (MX, E51)
R73	1-216-242-11	RES-CHIP	68K	5%	1/8W (AEP, UK, CIS)	R507	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (AEP, UK, CIS)
R73	1-216-244-00	RES-CHIP	82K	5%	1/8W (MX, E51)	R508	1-216-822-11	METAL CHIP	1.2K	5%	1/10W (MX, E51)
R74	1-216-238-11	RES-CHIP	47K	5%	1/8W	R508	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (AEP, UK, CIS)
R75	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R509	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R76	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R510	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R77	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R511	1-216-821-11	METAL CHIP	1K	5%	1/10W
R78	1-216-234-00	RES-CHIP	33K	5%	1/8W	R512	1-216-821-11	METAL CHIP	1K	5%	1/10W
R79	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R513	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R81	1-249-431-11	CARBON	15K	5%	1/4W	R514	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R82	1-216-835-11	METAL CHIP	15K	5%	1/10W	R515	1-216-813-11	METAL CHIP	220	5%	1/10W
R83	1-216-214-00	RES-CHIP	4.7K	5%	1/8W	R516	1-216-813-11	METAL CHIP	220	5%	1/10W
R85	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R517	1-216-804-11	METAL CHIP	39	5%	1/10W
R86	1-216-210-00	RES-CHIP	3.3K	5%	1/8W	R518	1-216-804-11	METAL CHIP	39	5%	1/10W
R90	1-216-222-00	RES-CHIP	10K	5%	1/8W	R519	1-216-804-11	METAL CHIP	39	5%	1/10W
R91	1-216-178-00	RES-CHIP	150	5%	1/8W (AEP, UK, CIS)	R520	1-216-804-11	METAL CHIP	39	5%	1/10W
R91	1-216-180-00	RES-CHIP	180	5%	1/8W (MX, E51)	R521	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R92	1-216-210-00	RES-CHIP	3.3K	5%	1/8W	R522	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R93	1-216-210-00	RES-CHIP	3.3K	5%	1/8W	R523	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R94	1-216-833-11	METAL CHIP	10K	5%	1/10W	R524	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R95	1-216-837-11	METAL CHIP	22K	5%	1/10W	R525	1-216-821-11	METAL CHIP	1K	5%	1/10W
R96	1-216-214-00	RES-CHIP	4.7K	5%	1/8W (AEP, UK, CIS)	R526	1-216-821-11	METAL CHIP	1K	5%	1/10W
R96	1-216-222-00	RES-CHIP	10K	5%	1/8W (MX, E51)	R527	1-216-841-11	METAL CHIP	47K	5%	1/10W
R97	1-216-824-11	METAL CHIP	1.8K	5%	1/10W (MX, E51)	R528	1-216-841-11	METAL CHIP	47K	5%	1/10W
R97	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (AEP, UK, CIS)	R529	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R98	1-216-824-11	METAL CHIP	1.8K	5%	1/10W (MX, E51)	R530	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R98	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (AEP, UK, CIS)	R531	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R99	1-216-210-00	RES-CHIP	3.3K	5%	1/8W	R532	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R100	1-216-138-00	METAL CHIP	3.3	5%	1/8W	R533	1-216-809-11	METAL CHIP	100	5%	1/10W
R102	1-216-208-00	RES-CHIP	2.7K	5%	1/8W (MX, E51)	R534	1-216-809-11	METAL CHIP	100	5%	1/10W
R102	1-216-212-00	RES-CHIP	3.9K	5%	1/8W (AEP, UK, CIS)	R535	1-216-809-11	METAL CHIP	100	5%	1/10W
R103	1-216-244-00	RES-CHIP	82K	5%	1/8W	R536	1-216-809-11	METAL CHIP	100	5%	1/10W
R104	1-216-244-00	RES-CHIP	82K	5%	1/8W	R537	1-216-198-00	RES-CHIP	1K	5%	1/8W
R105	1-216-244-00	RES-CHIP	82K	5%	1/8W	R538	1-216-198-00	RES-CHIP	1K	5%	1/8W
R106	1-216-244-00	RES-CHIP	82K	5%	1/8W	R539	1-216-833-11	METAL CHIP	10K	5%	1/10W
R107	1-216-244-00	RES-CHIP	82K	5%	1/8W	R540	1-216-833-11	METAL CHIP	10K	5%	1/10W
R108	1-216-244-00	RES-CHIP	82K	5%	1/8W	R541	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R109	1-216-244-00	RES-CHIP	82K	5%	1/8W	R542	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R110	1-216-244-00	RES-CHIP	82K	5%	1/8W	R543	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R500	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R544	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
△ R501	1-245-545-11	METAL OXIDE	0.22	5%	3W F (MX, E51)	R545	1-216-809-11	METAL CHIP	100	5%	1/10W
△ R502	1-245-545-11	METAL OXIDE	0.22	5%	3W F (MX, E51)	R546	1-216-809-11	METAL CHIP	100	5%	1/10W
						R547	1-216-838-11	METAL CHIP	27K	5%	1/10W
						R548	1-216-838-11	METAL CHIP	27K	5%	1/10W
						R549	1-216-817-11	METAL CHIP	470	5%	1/10W (MX, E51)
						R549	1-216-818-11	METAL CHIP	560	5%	1/10W (AEP, UK, CIS)

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

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
		MISCELLANEOUS	

58	1-769-889-11	WIRE (FLAT TYPE) (7 CORE)	
63	1-773-322-11	WIRE (FLAT TYPE) (31 CORE)	
64	1-769-976-11	WIRE (FLAT TYPE) (13 CORE)	
65	1-769-919-11	WIRE (FLAT TYPE) (9 CORE)	
68	1-827-399-11	WIRE (FLAT TYPE) (3 CORE)	
106	1-796-486-41	DECK, MECHANICAL (CWM43FR16)	
		(AEP, UK, CIS)	
106	1-796-487-41	DECK, MECHANICAL (CWM43RR23) (MX, E51)	
253	1-693-625-11	TUNER (FM/AM) (UK)	
253	1-693-626-11	TUNER (FM/AM) (AEP)	
253	1-693-627-11	TUNER (FM/AM) (CIS)	
253	1-693-628-11	TUNER (FM/AM) (E51, MX)	
△ 302	1-777-071-83	CORD, POWER (UK, CIS, E51)	
△ 302	1-783-532-11	CORD, POWER (AEP)	
△ 302	1-827-226-11	CORD, POWER (MX)	
308	1-769-939-11	WIRE (FLAT TYPE) (11 CORE) (CIS, MX, E51)	
308	1-773-003-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)	
309	1-827-146-11	WIRE (FLAT TYPE) (19 CORE)	
509	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
602	1-471-035-11	MAGNET ASSY	
△ 657	8-820-020-11	OPTICAL PICK-UP KSS-213D/Z-RP	
658	1-823-859-11	WIRE (FLAT TYPE) (16 CORE)	
△ F902	1-533-469-11	FUSE, GLASS TUBE (DIA. 5) (T2.5AL/250V)	
△ F905	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL/250V)	
		(AEP, UK, CIS)	
△ F905	1-576-655-11	FUSE, GLASS TUBE (DIA. 5) (T8AL/250V) (MX)	
△ F906	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL/250V)	
		(AEP, UK, CIS)	
△ F906	1-576-655-11	FUSE, GLASS TUBE (DIA. 5) (T8AL/250V) (MX)	
M701	X-2625-769-1	GEAR ASSY (MB) (RP), MOTOR (SLED)	
M702	X-2161-802-1	CHASSIS ASSY (DCP), T. T (SPINDLE)	
M731	1-763-072-11	FAN, DC	
M741	A-4723-963-A	MOTOR ASSY, TABLE	
M751	A-4736-655-A	MOTOR ASSY, LOADING	
△ PT901	1-439-790-11	TRANSFORMER, POWER (E51)	
△ PT901	1-439-793-11	TRANSFORMER, POWER (AEP, UK, CIS)	
△ PT901	1-439-938-11	TRANSFORMER, POWER (MX)	
S711	1-477-680-11	ENCODER, ROTARY	
		(DISC TRAY ADDRESS DETECT)	

		ACCESSORIES	

△	1-569-008-12	ADAPTOR, CONVERSION 2P (E51)	
△	1-770-019-51	ADAPTOR, CONVERSION PLUG (UK)	

MEMO

REVISION HISTORY

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

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