

HCD-FX300i

SERVICE MANUAL

Ver. 1.2 2010.06

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model



- HCD-FX300i (US, CND, UK, SP, TW, KR, TH, AUS) is the amplifier, CD player, tuner and iPod section in CMT-FX300i (US, CND, UK, SP, TW, KR, TH, AUS).
- HCD-FX300i (AEP, E2, E51, MX) is the amplifier, CD player, tuner, USB and iPod section in CMT-FX300i (AEP, E2, E51, MX).

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Model Name Using Similar Mechanism	NEW
Base Unit Name (US, CND, UK, SP, TW, KR, TH, AUS)	BU-D1BD73
Base Unit Name (AEP, E2, E51, MX)	BU-D1BD73U
Optical Pick-up Block Name	DA11MMVGP

Abbreviation

AUS : Australian model	E51 : Chilean and Peruvian models	SP : Singapore model
CND : Canadian model	KR : Korean model	TH : Thai model
E2 : 120V AC area in E model	MX : Mexican model	TW : Taiwan model

SPECIFICATIONS

Amplifier section

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
(The United States model only)

With 4 ohm loads, both channels driven, from 120 – 15,000 Hz; rated 5watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 milliwatts to rated output.

European model:

DIN power output (rated): 4 watts + 4 watts (4 ohms at 1 kHz, DIN)
Continuous RMS power output (reference): 5 watts + 5 watts (4 ohms at 1 kHz, 10% THD)
Music power output (reference): 9 watts + 9 watts

Other models:

DIN power output (rated): 4 watts + 4 watts (4 ohms at 1 kHz, DIN)
Continuous RMS power output (reference): 5 watts + 5 watts (4 ohms at 1 kHz, 10% THD)

Input

AUDIO IN (stereo mini jack): Sensitivity 550 mV, impedance 50 kilohms

Outputs

PHONES (stereo mini jack): Accepts headphones with an impedance of 8 ohms or more
SPEAKERS: Accepts impedance of 4 ohms

CD player section

System: Compact disc and digital audio system
Laser Diode Properties

Emission Duration: Continuous
Laser Output*: Less than 44.6µW

* This output is the value measurement at a distance of 200mm from the objective lens surface on the Optical Pick-up Block with 7mm aperture.

Frequency response: 20 Hz – 20 kHz

Signal-to-noise ratio: More than 90 dB

Dynamic range: More than 90 dB

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section:

Tuning range:

North American model: 87.5 MHz – 108.0 MHz (100 kHz step)

Other models: 87.5 MHz – 108.0 MHz (50 kHz step)

Antenna: FM lead antenna

Intermediate frequency: 225 kHz

AM tuner section:

Tuning range

European model:

531 kHz – 1,602 kHz (9 kHz step)

North American, E2, E51 and MX models:

530 kHz – 1,710 kHz (10 kHz step)

531 kHz – 1,710 kHz (9 kHz step)

Australian model:

531 kHz – 1,710 kHz (9 kHz step)

530 kHz – 1,710 kHz (10 kHz step)

SP, TW, KR, TW and TH models:

531 kHz – 1,602 kHz (9 kHz step)

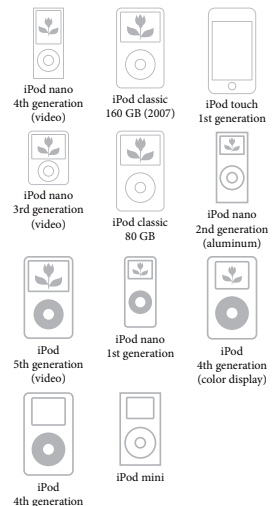
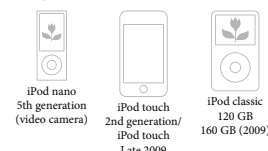
530 kHz – 1,610 kHz (10 kHz step)

Antenna: AM loop antenna

Intermediate frequency: 53 kHz

iPod section

Compatible iPod models:



– Continued on next page –

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Audio&Video Business Group

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COMPACT DISC RECEIVER

SONY®

USB section (AEP, E2, E51 and MX models only)

Supported bit rate:
MP3 (MPEG 1 Audio Layer-3): 32 kbps – 320 kbps, VBR
Sampling frequencies:
MP3 (MPEG 1 Audio Layer-3): 32/44.1/48 kHz
⚡ (USB) port: Type A, maximum current 500 mA

General

Power requirements:
European model: AC 230 V, 50/60 Hz
Latin American models (except for Mexican model):
AC 110 V – 120 V or 220 V – 240 V, 50/60 Hz, adjustable with voltage selector
Mexican model: AC 120 V, 60 Hz
North American model: AC 120 V, 60 Hz
Australian model: AC 230 V – 240 V, 50/60 Hz
Korean model: AC 220 V, 60 Hz
Thai model: AC 220 V, 60 Hz
Taiwan model: AC 120 V, 50/60 Hz
Other models: AC 220 V – 240 V, 50/60 Hz
Power consumption: 28 watts (AEP, UK, E2, E51, MX)
25 watts (US, CND, SP, KR, TW, TH, AUS)
Dimensions (W/H/D) (excl. speakers):
Approx. 158 mm × 240 mm × 251.5 mm
Mass (excl. speakers): Approx. 2.2 kg
Design and specifications are subject to change without notice.

- Standby power consumption: 0.5 W
- Halogenated flame retardants are not used in the certain printed wiring boards.

• **Abbreviation**

- AUS : Australian model
- CND : Canadian model
- E2 : 120V AC area in E model
- E51 : Chilean and Peruvian models
- KR : Korean model
- MX : Mexican model
- SP : Singapore model
- TH : Thai model
- TW : Taiwan model

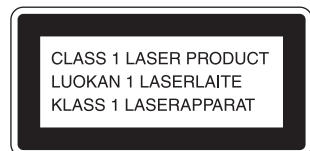
NOTES ON CHIP COMPONENT REPLACEMENT

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

FLEXIBLE CIRCUIT BOARD REPAIRING

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

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



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

SAFETY CHECK-OUT

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

LEAKAGE TEST

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

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

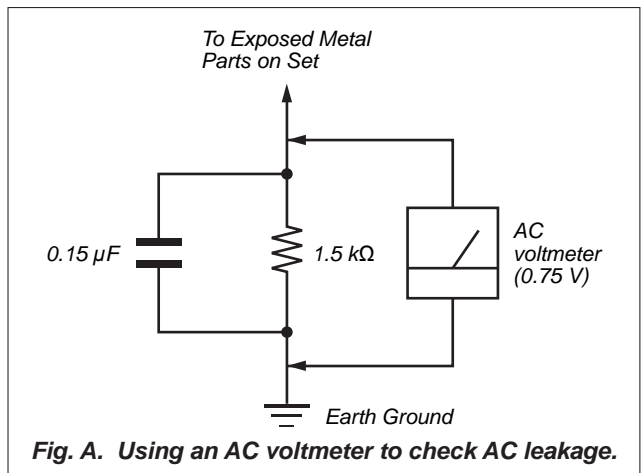


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!

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

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

TABLE OF CONTENTS

1. SERVICING NOTES	4	5-8. Schematic Diagram - MAIN Section (2/2) -	21
2. DISASSEMBLY		5-9. Printed Wiring Boards - MAIN Section -	22
2-1. Disassembly Flow	6	5-10. Printed Wiring Board - IP Board -	23
2-2. Panel (Rear) Block.....	6	5-11. Schematic Diagram - IP Board -	23
2-3. Top Panel Block	7	5-12. Schematic Diagram - PANEL Board (1/2) -	24
2-4. Front Panel Block	7	5-13. Schematic Diagram - PANEL Board (2/2) -	25
2-5. Knob (VOL).....	8	5-14. Printed Wiring Board - PANEL Board -	26
2-6. MAIN Board	8	5-15. Printed Wiring Board - PT Board (Except E2, E51) - ...	27
2-7. Base Unit.....	9	5-16. Schematic Diagram - PT Board (Except E2, E51) -	27
2-8. Optical Pick-up Block (DA11MMVGP)	9	5-17. Printed Wiring Board - PT-SW Board (E2, E51) -	28
3. TEST MODE	10	5-18. Schematic Diagram - PT-SW Board (E2, E51) -	28
4. ELECTRICAL CHECK	11	6. EXPLODED VIEWS	
5. DIAGRAMS		6-1. Overall Section	36
5-1. Block Diagram - CD, TUNER, USB Section -	13	6-2. Top Panel Section	37
5-2. Block Diagram		6-3. Front Panel Section.....	38
- OUTPUT, PANEL, POWER SUPPLY Section -	14	6-4. Chassis Section	39
5-3. Printed Wiring Board - BD73/BD73U Board -	16	7. ELECTRICAL PARTS LIST	40
5-4. Schematic Diagram - BD73/BD73U Board -	17		
5-5. Printed Wiring Board		Accessories are given in the last of the electrical parts list.	
- USB Board (AEP, E2, E51, MX) -	18	• Abbreviation	
5-6. Schematic Diagram		E2 : 120V AC area in E model	
- USB Board (AEP, E2, E51, MX) -	19	E51 : Chilean and Peruvian models	
5-7. Schematic Diagram - MAIN Section (1/2) -.....	20	MX : Mexican model	

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 pickup block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

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.

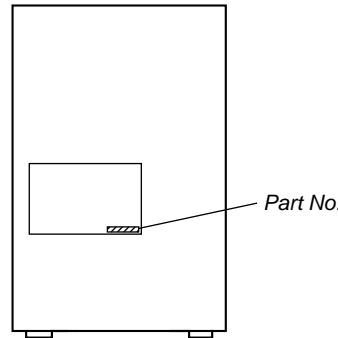
- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350 °C.
Caution: The printed pattern (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.

NOTE OF REPLACING THE IC101 ON THE USB BOARD (AEP, 120V AC area in E, Mexican, Chilean and Peruvian models only)

IC101 on the USB board cannot exchange with single.

When this part on the USB board is damaged, exchange the entire mounted board.

MODEL IDENTIFICATION - Back Panel -



Model	Part No.
AEP model	4-178-680-0□
Mexican model	4-178-681-0□
120V AC area in E, Chilean and Peruvian models	4-178-682-0□
Thai model	4-178-683-0□
US model	4-178-684-0□
Canadian model	4-178-685-0□
Singapore model	4-178-686-0□
Australian model	4-178-687-0□
Taiwan model	4-178-688-0□
Korean model	4-178-689-0□
UK model	4-178-690-0□

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

During normal operation of the equipment, emission of the laser diode is prohibited unless the upper lid is closed while turning on the SW880. (push switch type)

The following checking method for the laser diode is operable.

- Method
Emission of the laser diode is visually checked.
 1. Open the upper lid.
 2. Push the SW880 as shown in Fig.1.
Note: Do not push the detection lever strongly, or it may be bent or damaged.
 3. Check the object lens for confirming normal emission of the laser diode. If not emitting, there is a trouble in the automatic power control circuit or the optical pick-up.
In this operation, the object lens will move up and down 2 times along with inward motion for the focus search.

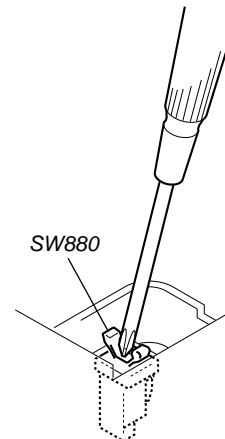


Fig. 1. Method to push the SW880

CAPACITOR ELECTRICAL DISCHARGE PROCESSING

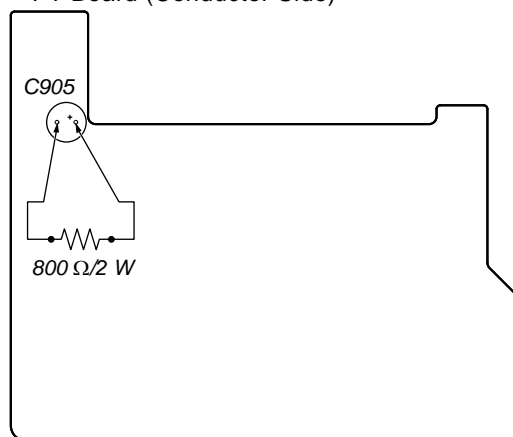
When checking the board, the electrical discharge is necessary for the electric shock prevention.

Connect the resistors referring to the figure below.

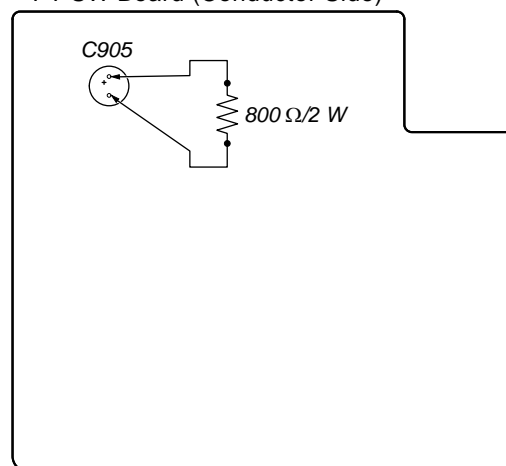
- PT board (C905) (Except 120V AC area in E, Chirean and Peruvian models only)
- PT-SW board (C905) (120V AC area in E, Chirean and Peruvian models only)
- MAIN board (C903, C904) (All models)

Both ends of respective capacitors.

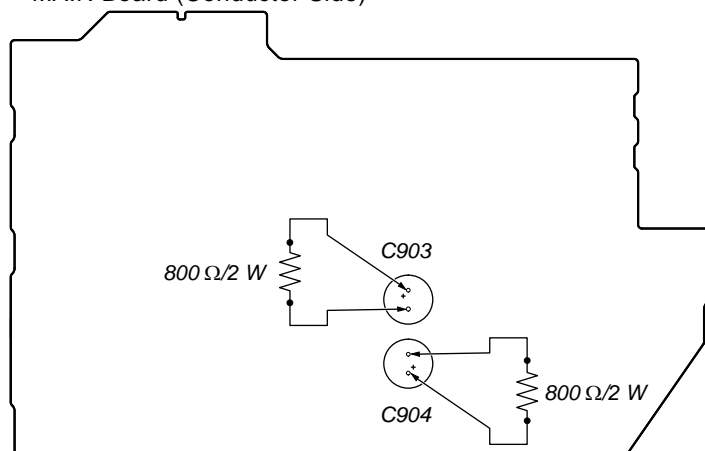
– PT Board (Conductor Side) –



– PT-SW Board (Conductor Side) –



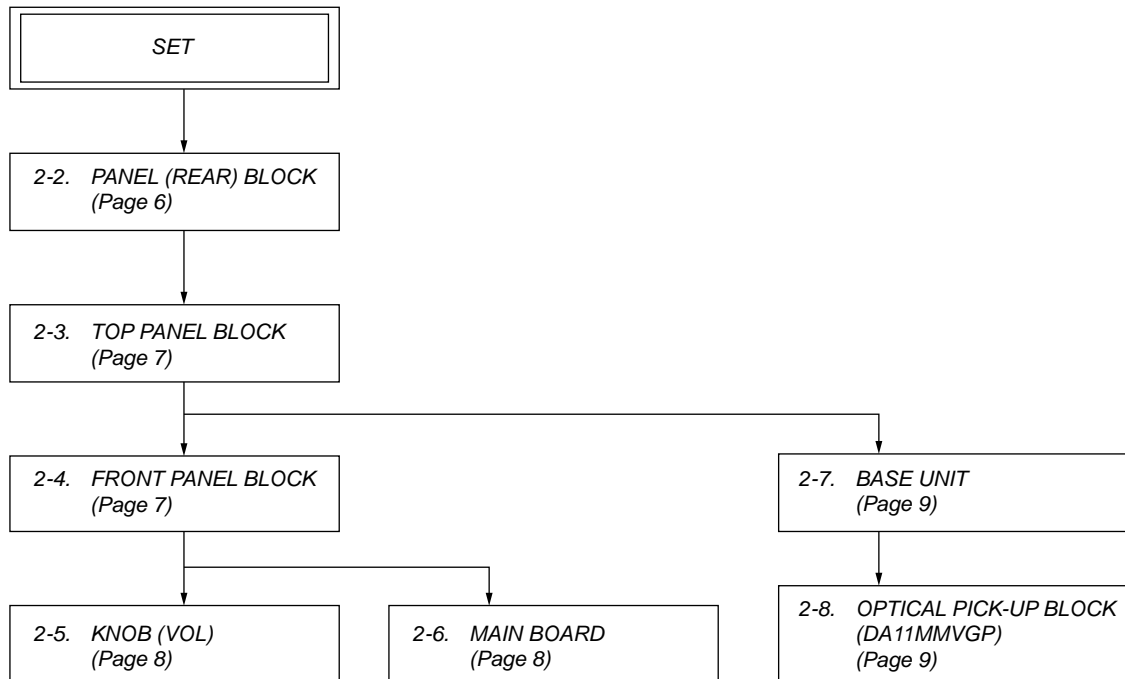
– MAIN Board (Conductor Side) –



SECTION 2 DISASSEMBLY

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

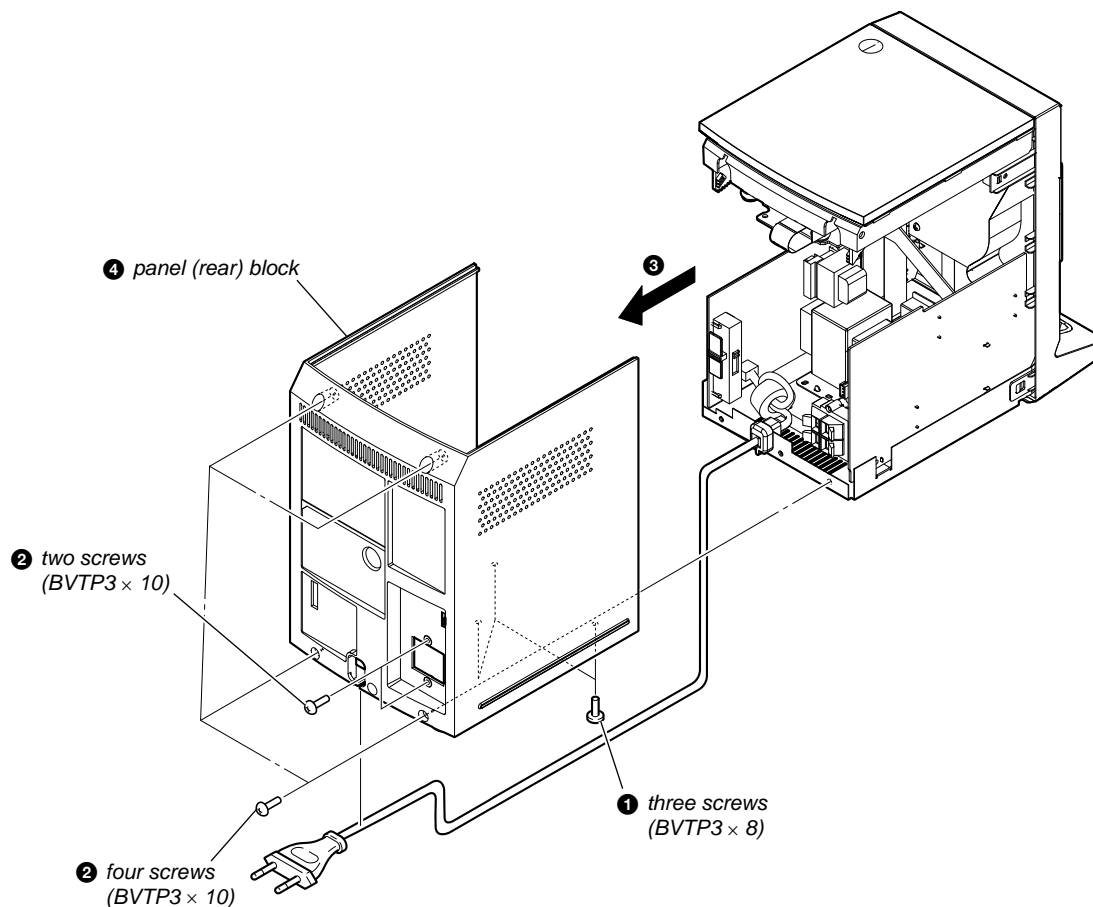
2-1. DISASSEMBLY FLOW



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

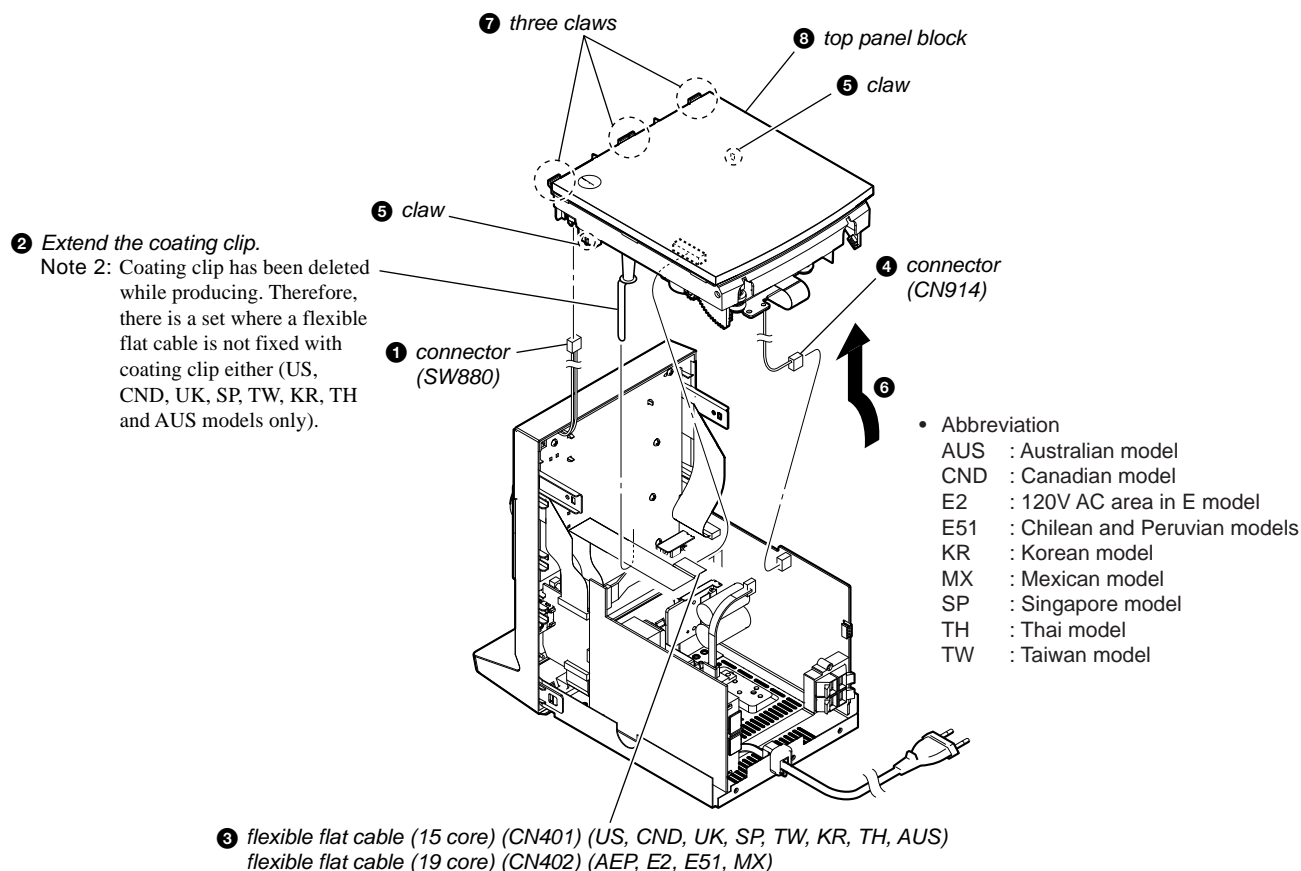
2-2. PANEL (REAR) BLOCK

Note: This illustration sees the set from rear side.

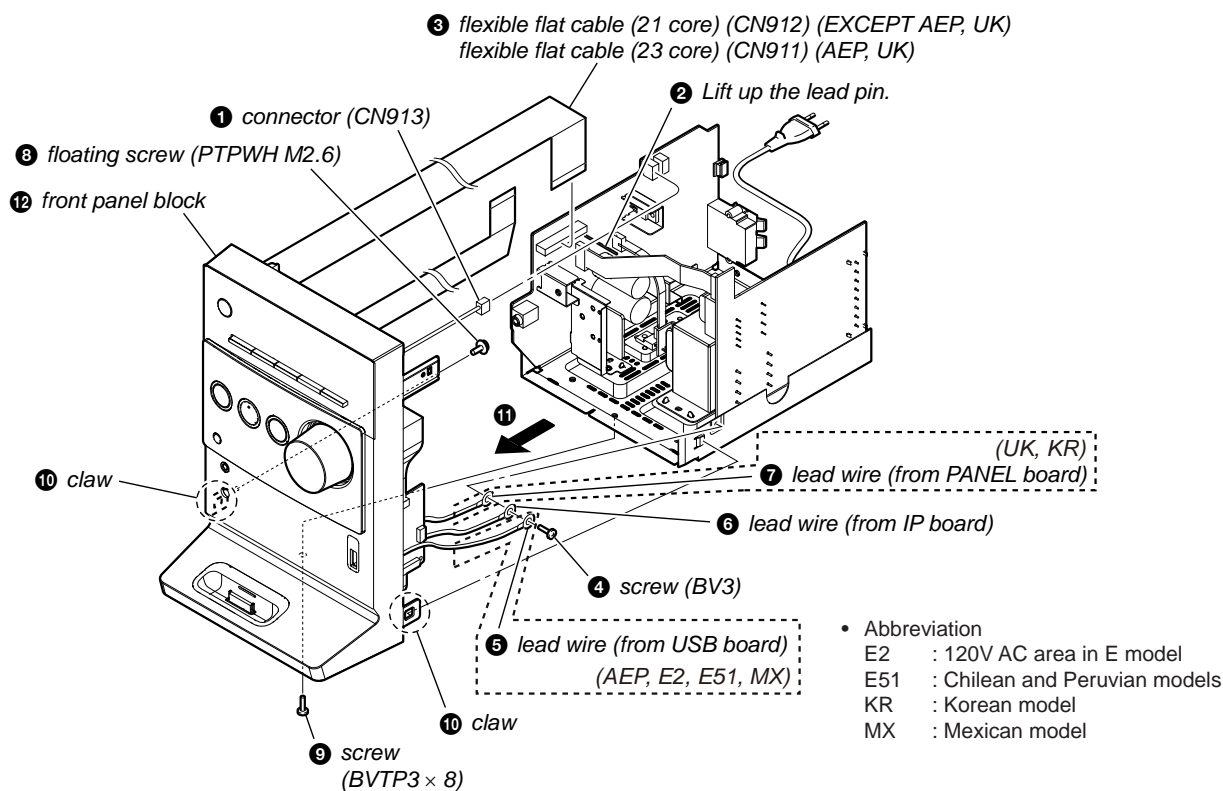


2-3. TOP PANEL BLOCK

Note 1: This illustration sees the set from rear side.

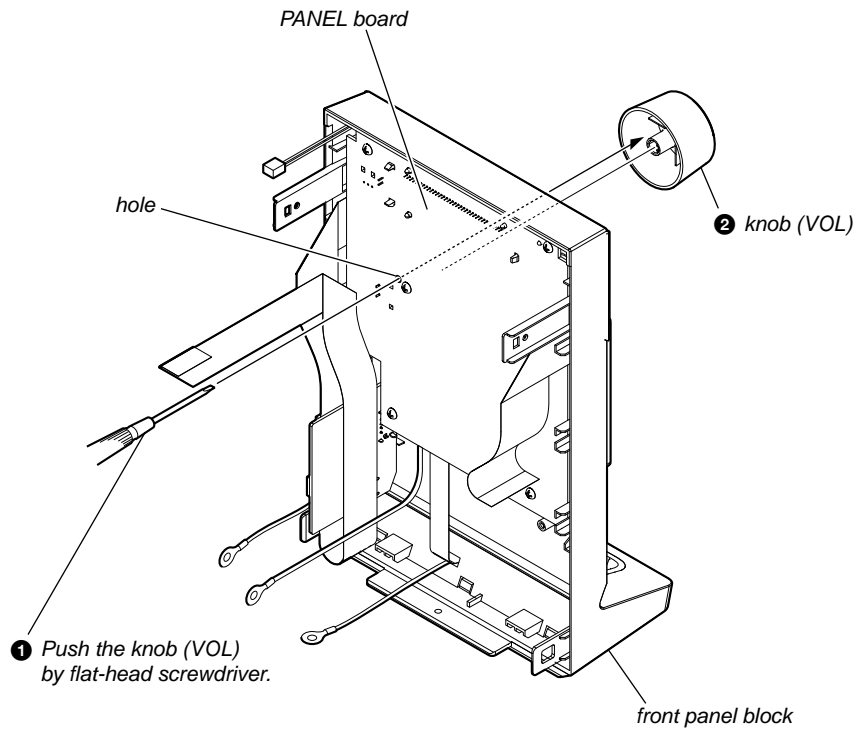


2-4. FRONT PANEL BLOCK

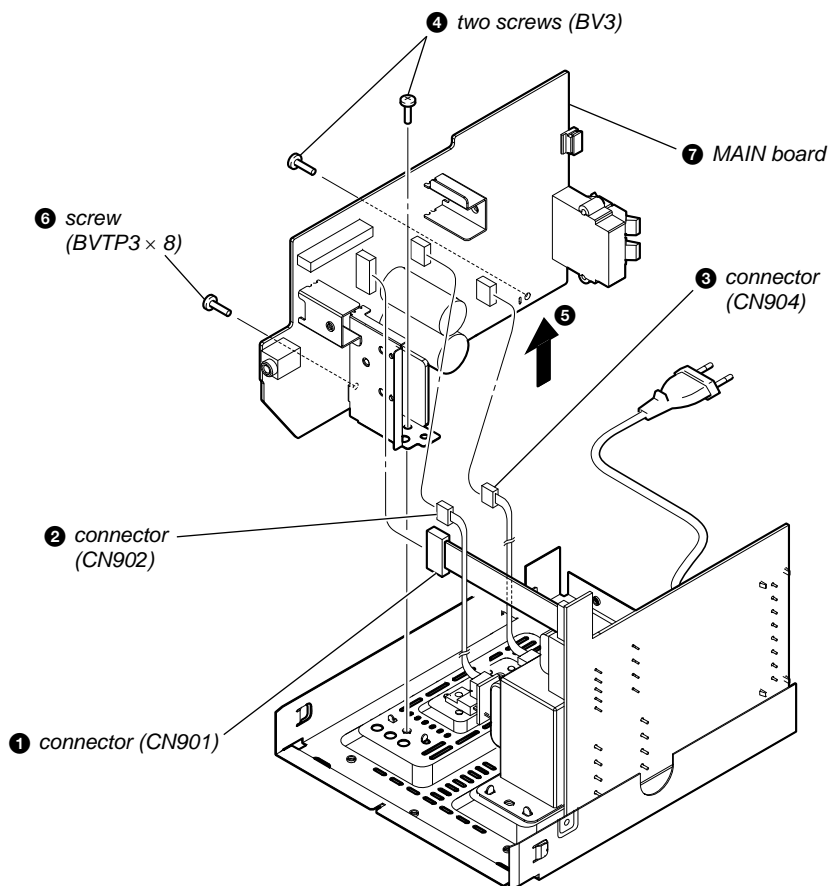


2-5. KNOB (VOL)

Note: This illustration sees the front panel block from PANEL board side.

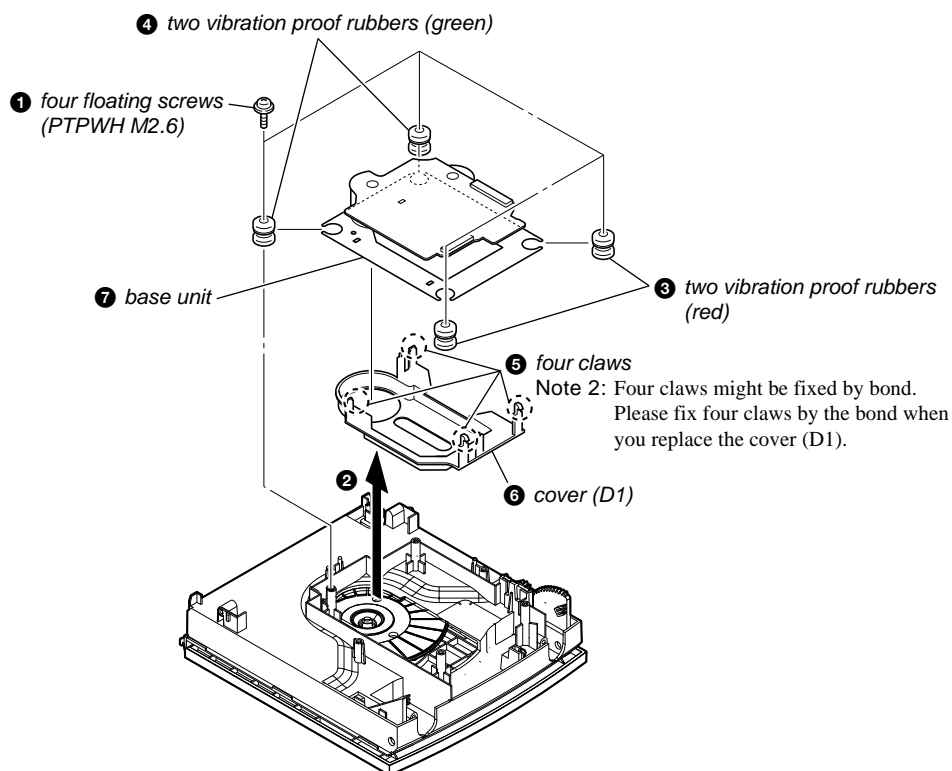


2-6. MAIN BOARD



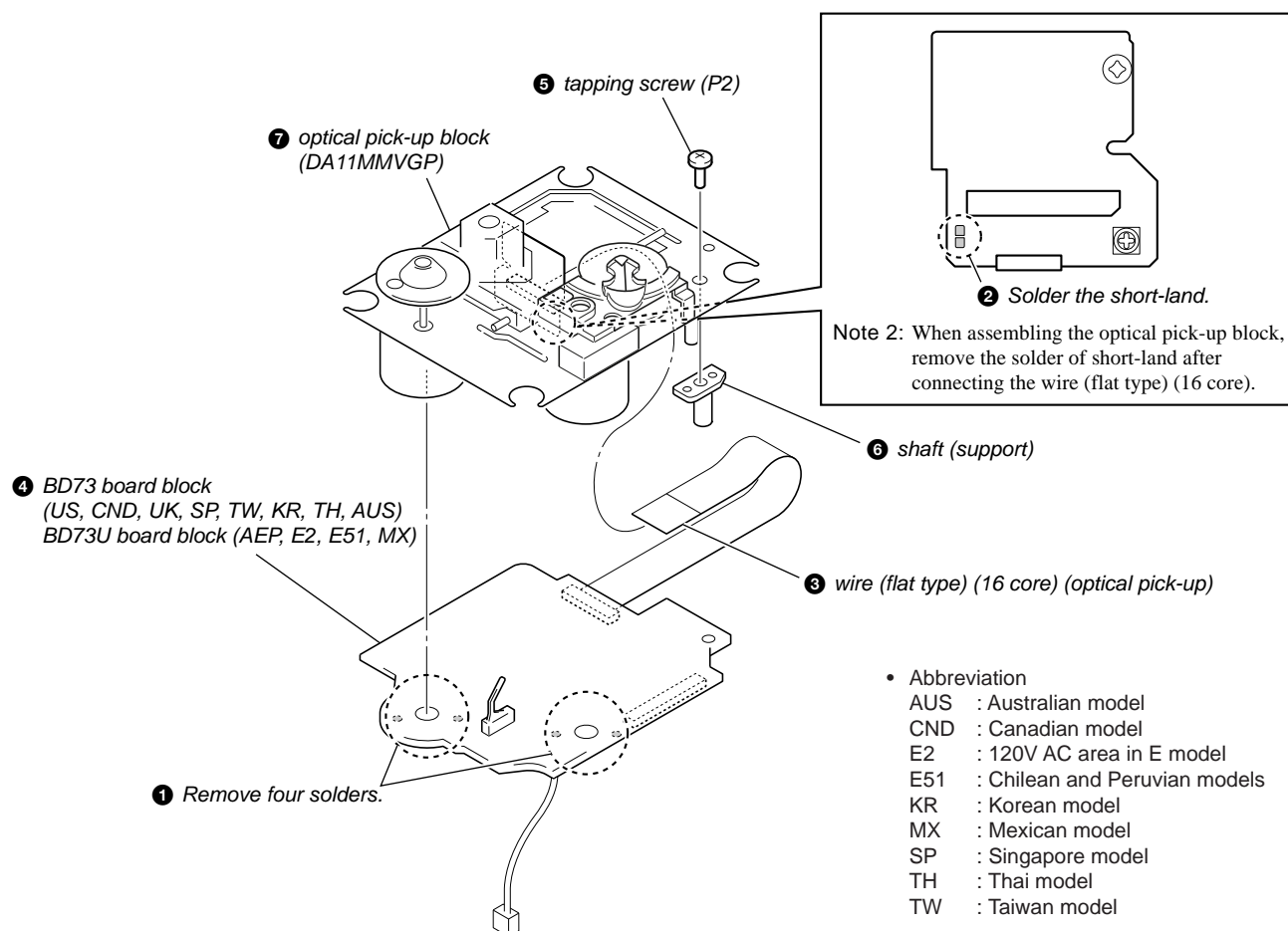
2-7. BASE UNIT

Note 1: This illustration sees the top panel block from base unit side.



2-8. OPTICAL PICK-UP BLOCK (DA11MMVGP)

Note 1: When disconnecting the wire (flat type) (16 core) of optical pick-up block, solder the short-land.



SECTION 3 TEST MODE

COLD RESET

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

Procedure:

1. In the standby status, press the [I/⏻] button to turn the power on.
2. Press three buttons of [FUNCTION], [⏏ +] and [I/⏻] simultaneously.
3. When “RESET” appears, the set enters standby status.

PANEL TEST MODE

Enter The Panel Test Mode

Procedure:

1. In the standby status, press the [I/⏻] button to turn the power on.
2. Press three buttons of [ENTER], [FUNCTION] and [I/⏻] simultaneously
3. When the panel test mode is activated, segments of the liquid crystal display are all turned on.

Version Check

Procedure:

1. In the panel test mode (segments of the liquid crystal display are all turned on), press the [⏏ +] button.
2. On the liquid crystal display, date and version are displayed.
3. Press the [⏏ +] button, and the USB micom version is displayed.
4. From this status, press the [⏏ -] button, and the destination and model name are displayed.
5. To release from this mode, press three button of [ENTER], [FUNCTION] and [I/⏻] simultaneously .

Key Test Mode (AEP, 120V AC area in E, Mexican, Chilean and Peruvian models only)

Procedure:

1. In the panel test mode (segments of the liquid crystal display are all turned on), press the [▶▶] button.
2. The message “KEY0 0 0” displayed. Whenever any buttons are pressed the value is changed.
The message “VOL UP” is displayed when [VOLUME] knob is turned clockwise, and “VOL DOWN” is displayed when [VOLUME] knob is turned counterclockwise.
3. To release from this mode, press three button of [ENTER], [FUNCTION] and [I/⏻] simultaneously.

TUNER STEP CHANGE

(Except AEP and UK models only)

The AM tuning interval can be changed over 9 kHz or 10 kHz.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the [FUNCTION] button to select TUNER (AM) function.
3. Press the [I/⏻] button again to turn the power off (standby).
4. After pressing the [DISPLAY] button on the remote commander, while pressing the [TUNE + ▶▶ ▷▷] button, press the [I/⏻] button.
5. It turns power on and display “9K STEP” or “10K STEP”, and thus the tuning interval is changed over.

CD/USB POWER MANAGE

This mode is for switch the CD/USB power supply on/off. Even if this state pulls out AC plug, it is held.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the [FUNCTION] button to select CD function.
3. Press the [I/⏻] button again to turn the power off (standby).
4. After pressing the [DISPLAY] button on the remote commander, while pressing the [■] button, press the [I/⏻] button.
5. It turns power on and display “CD POWER”, then display “ON” or “OFF”.

CD SERVICE MODE

This mode can move the SLED of the optical pick-up, and also can turn the optical pick-up laser power on and off.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the [FUNCTION] button to select CD function.
3. Press three buttons of [DSGX], [TUNE + ▶▶ ▷▷] and [I/⏻] simultaneously.
4. It enters the CD service mode and displays “SERVICE”.
5. To exit from this mode, press three buttons of [DSGX], [TUNE + ▶▶ ▷▷] and [I/⏻] simultaneously.

Key Operation:

[TUNE + ▶▶ ▷▷], [- TUNE ◀◀ ◀◀]:

Use these keys to move the SLED.

When [TUNE + ▶▶ ▷▷] is pressed in this mode, the SLED moves to outer circumference and the message “SLED OUT” is displayed.

When [- TUNE ◀◀ ◀◀] is pressed in this mode, the SLED moves to inner circumference and the message “SLED IN” is displayed.

[FUNCTION]:

Use this key to turn the optical pick-up laser power on and off. When the laser power is turned on, the message “LD ON” is displayed. When the laser power is turned off, the message “LD OFF” is displayed.

SECTION 4 ELECTRICAL CHECK

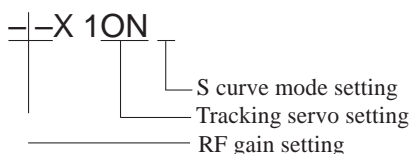
CD FACTORY MODE

Note 1: Do not enter this mode while any other test mode is in progress.

Note 2: Do not enter any other test mode while this mode is in progress.

Procedure:

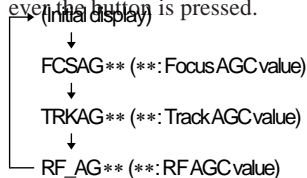
1. Press the [I/⏻] button to turn the power on.
2. Press the [FUNCTION] button to select CD function.
3. Press three buttons of [DSGX], [] and [I/⏻] simultaneously.
4. It enters the CD factory mode and the message "FACTORY" is displayed. When the [DSGX] button is pressed four times, the following message (initial display) is displayed.



Key Operation:

[DSGX]:

The display changes in the following order whenever the button is pressed.



[ENTER]:

RF gain setting changes whenever the button is pressed.

"- -": No gain fixation.

"AL": Fix to the gain for AL disc.

"RW": Fix to the gain for RW disc.

[] +]:

Tracking servo setting changes whenever the button is pressed.

"ON": Tracking servo ON.

"OFF": Tracking servo OFF.

[FUNCTION]:

S curve mode setting changes whenever the button is pressed.

" ": S curve mode OFF.

"S": S curve mode ON.

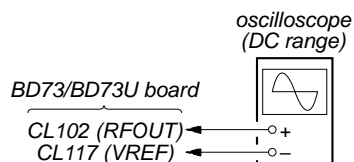
5. To release from this mode, press three buttons of [DSGX], [] and [I/⏻] simultaneously.

CD SECTION

Note:

1. CD Block is basically constructed to operate without adjustment.
2. Use YEDS-18 disc (Part No. 3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10 MΩ 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.
5. Check the focus bias check when optical pick-up block is replaced.

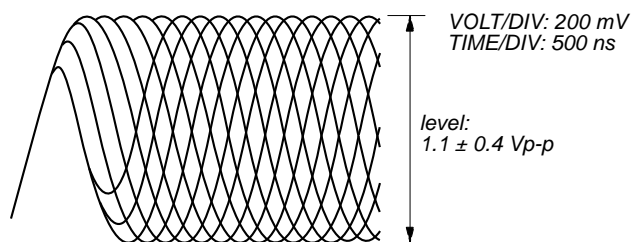
FOCUS BIAS CHECK



Procedure:

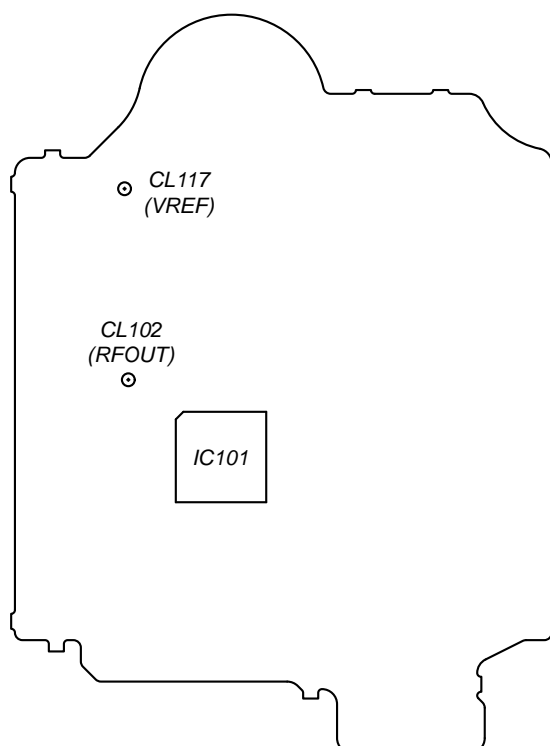
1. Connect the oscilloscope to CL102 (RFOUT) and CL117 (VREF) on the BD73/BD73U board.
2. Press the [I/⏻] button to turn the power on, and press the [FUNCTION] button to select CD function.
3. Set disc (YEDS-18) and press the [▶] button to playback.
4. Confirm that oscilloscope waveform is as shown in the figure below (eye pattern).

A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.



Checking Location:

- BD73 Board (Conductor Side) -
- BD73U Board (Conductor Side) -

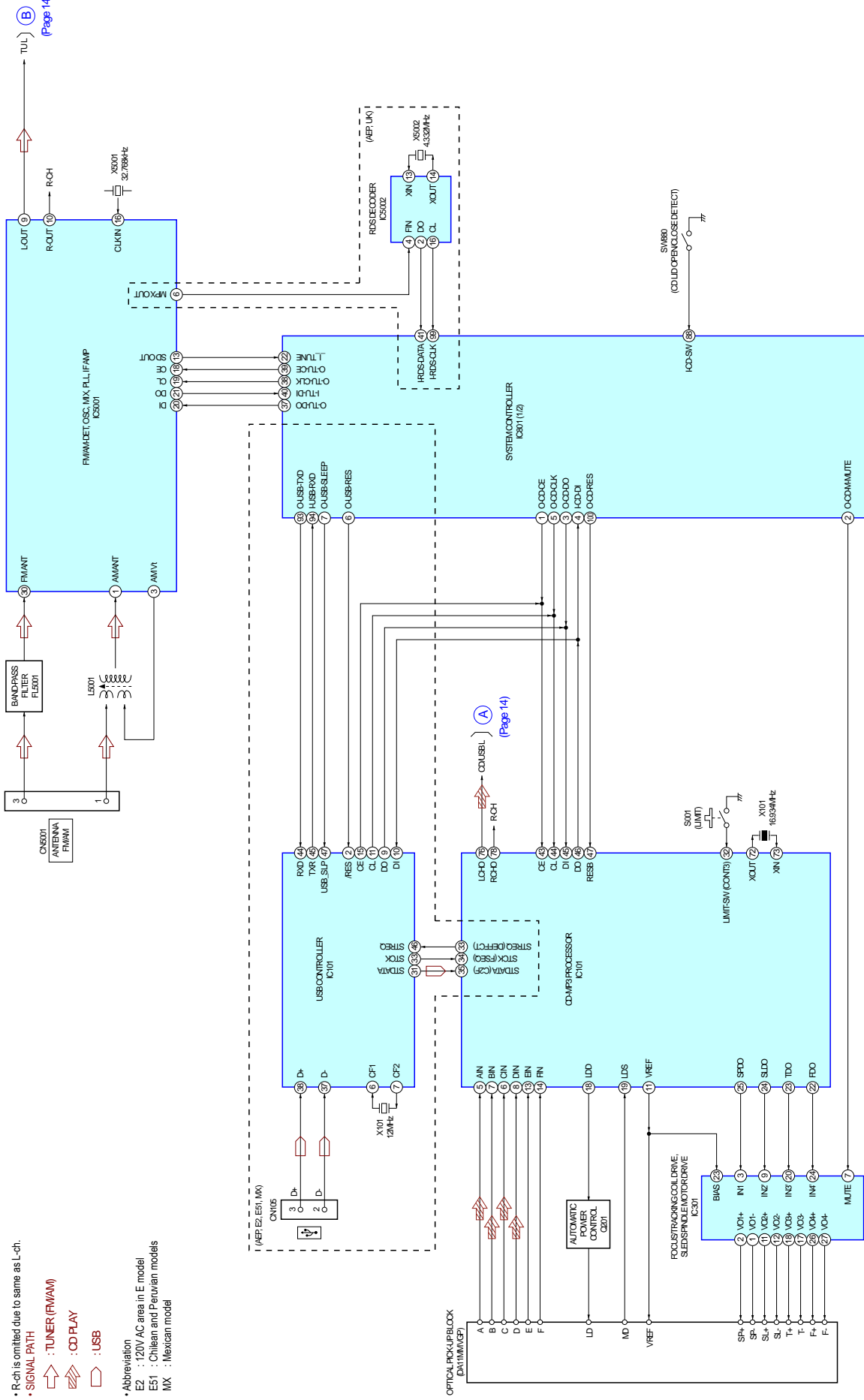


MEMO

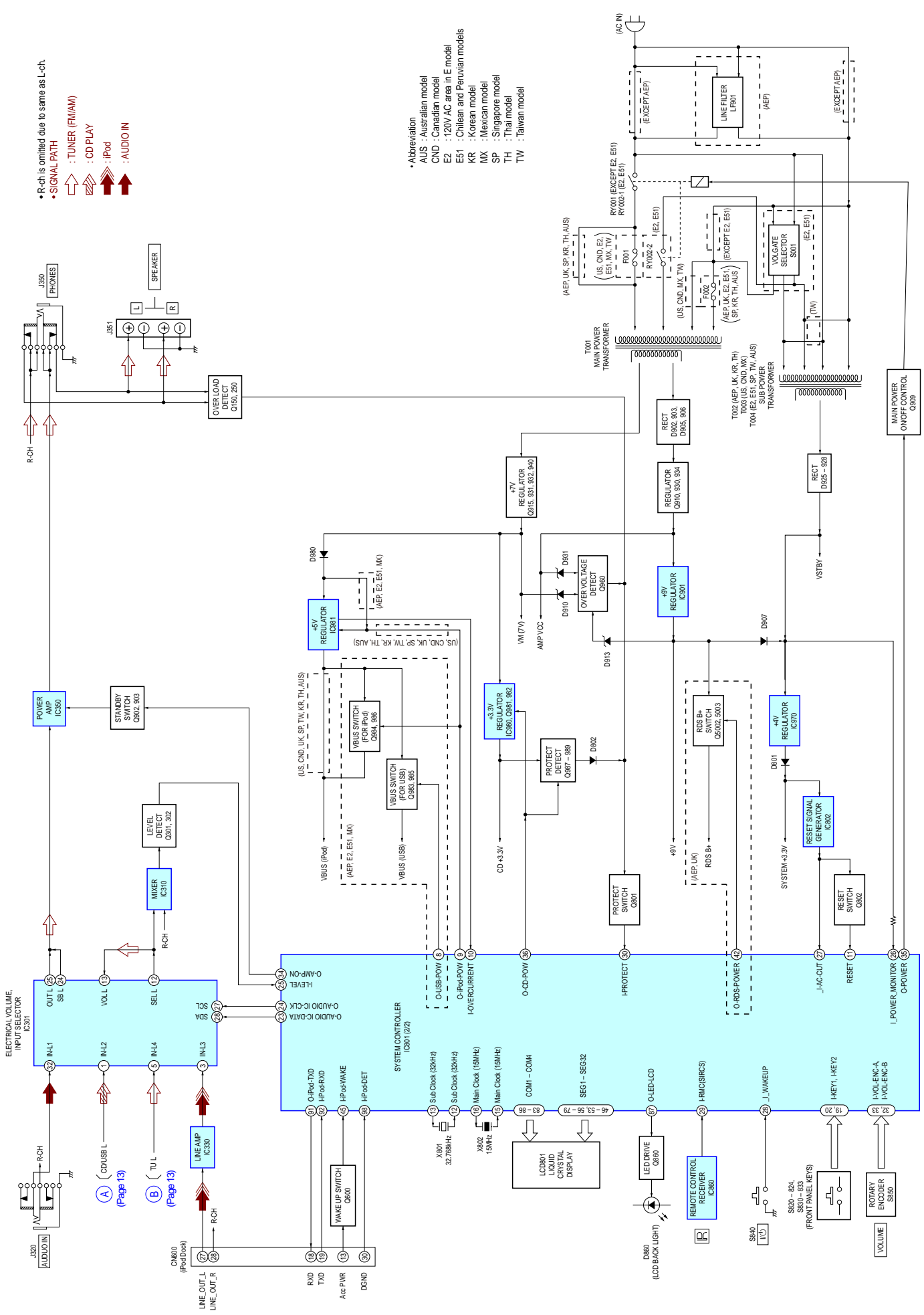
SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM - CD, TUNER, USB Section -

- R-ch is omitted due to same as L-ch.
 - SIGNAL PATH
 - TUNER (FW/MX)
 - CD PLAY
 - USB
- Abbreviation
- E2 : 120V AC area in E model
 - E51 : Chilean and Peruvian models
 - MX : Mexican model



5-2. BLOCK DIAGRAM - OUTPUT, PANEL, POWER SUPPLY Section -



- R-CH is omitted due to same as L-CH.
- SIGNAL PATH
- ↑ : TUNER (FM/AM)
- ↗ : CD PLAY
- ↘ : iPod
- ↑ : AUDIO IN

- Abbreviation
- AUS : Australian model
- CND : Canadian model
- E2 : 120V AC area in E model
- E51 : Chilean and Peruvian models
- KR : Korean model
- MX : Mexican model
- SP : Singapore model
- TH : Thai model
- TW : Taiwan model

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

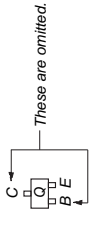
For Printed Wiring Boards.

- Note:
- : parts extracted from the component side.
 - : parts extracted from the conductor side.
 - : indicates side identified with part number.
 - : 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 (Conductor Side) from the pattern face are indicated.
Parts face side: Parts on the parts face side seen from (Component Side) the parts face are indicated.

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

- Indication of transistor.



- Abbreviation
AUS : Australian model
CND : Canadian model
E2 : 120V AC area in E model
E51 : Chilean and Peruvian models
KR : Korean model
MX : Mexican model
SP : Singapore model
TH : Thai model
TW : Taiwan model

For Schematic Diagrams.

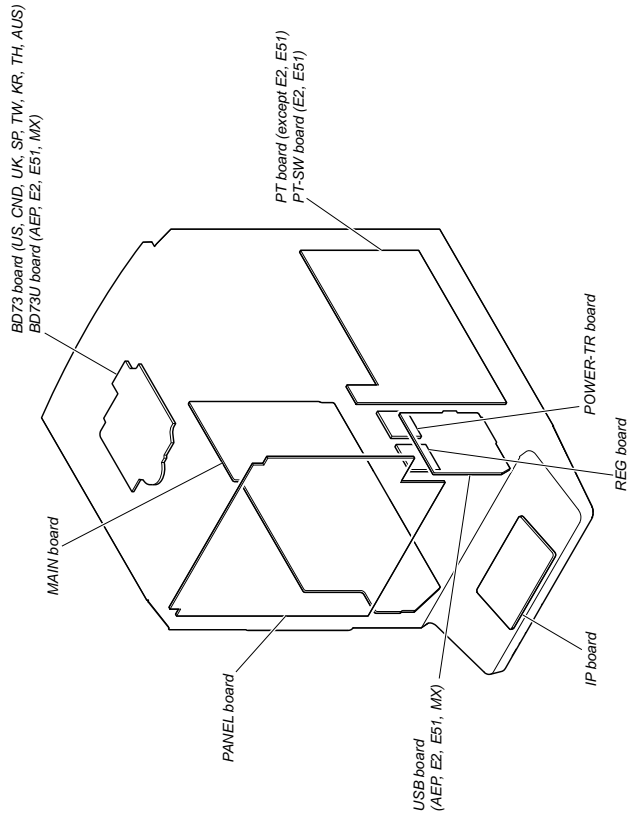
- Note:
- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and 1/4 W or less unless otherwise specified.
 - Δ : internal component.
 - \square : panel designation.

Note:
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.


- **—** : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- CD Board -
no mark: CD PLAY
- USB Board -
no mark: USB
- Other Boards -
no mark: TUNER (FM)
{ } : TUNER (AM)
() : CD PLAY
< > : USB
{ } : iPod
* : Impossible to measure
- Voltages are taken with VOM (input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
⤴ : TUNER (FM/AM)
⤵ : CD PLAY
⤶ : USB
⤷ : iPod
⤸ : AUDIO IN

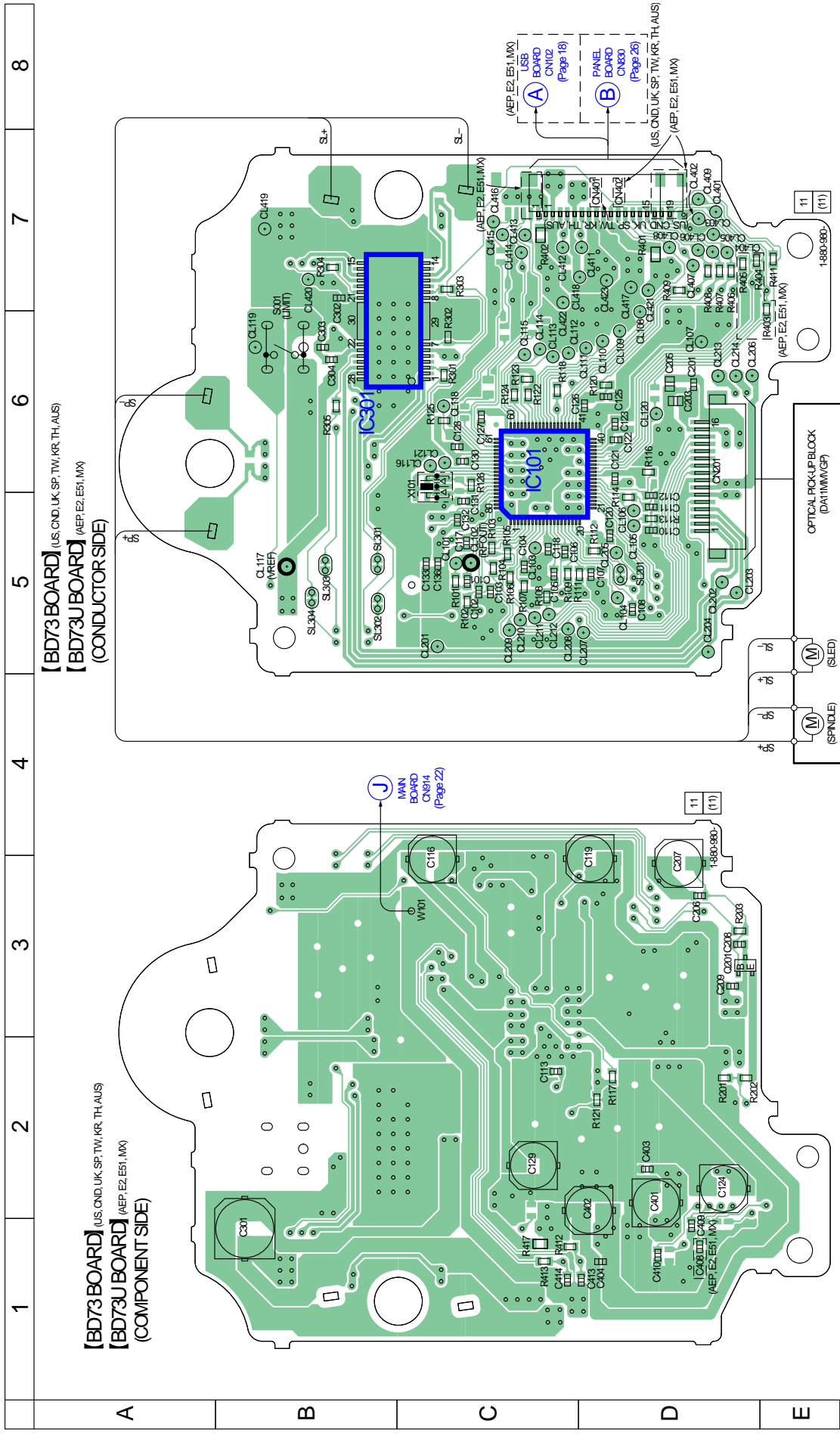
- Abbreviation
AUS : Australian model
CND : Canadian model
E2 : 120V AC area in E model
E51 : Chilean and Peruvian models
KR : Korean model
MX : Mexican model
SP : Singapore model
TH : Thai model
TW : Taiwan model

• Circuit Boards Location

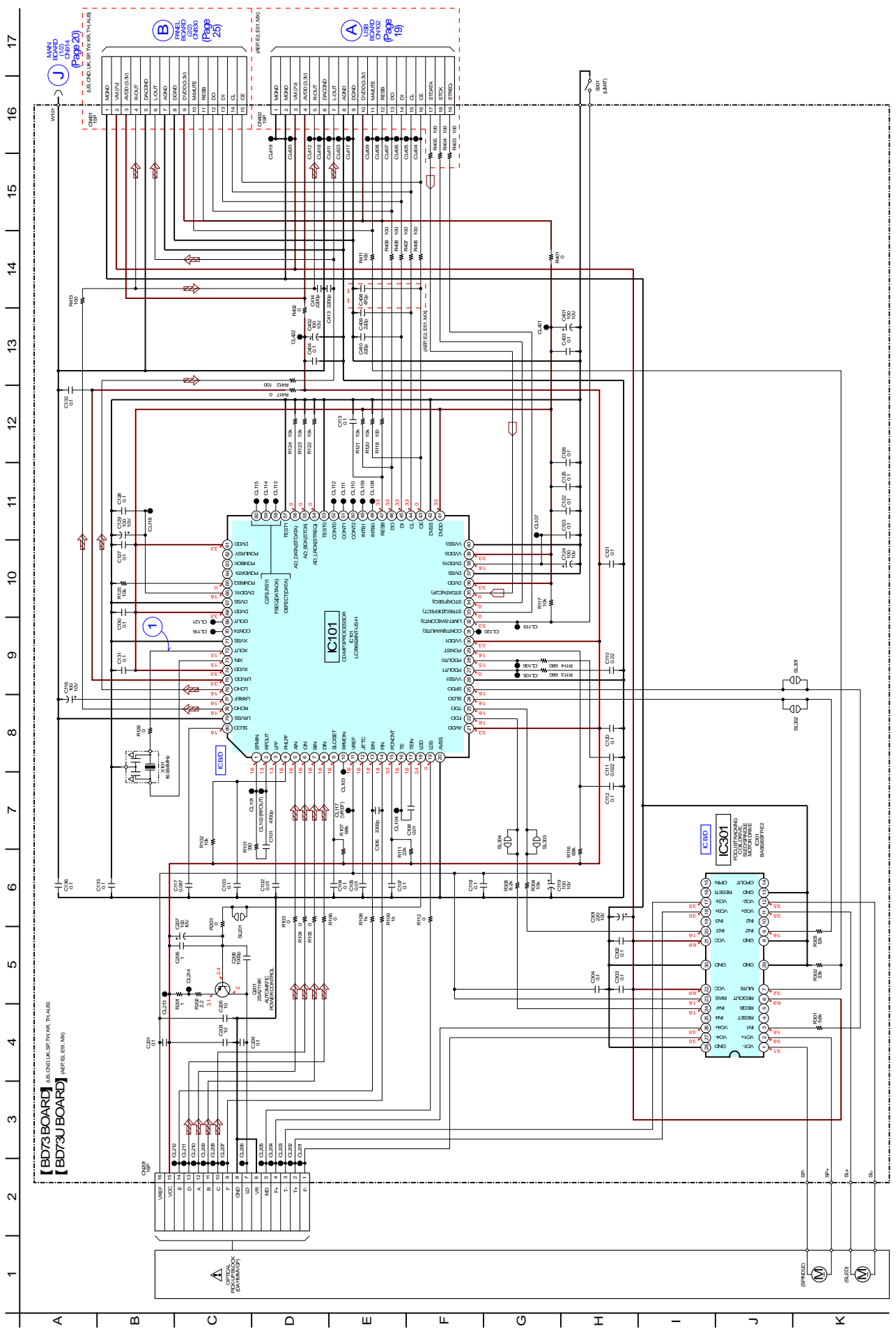


- Abbreviation
AUS : Australian model
CND : Canadian model
E2 : 120V AC area in E model
E51 : Chilean and Peruvian models
KR : Korean model
MX : Mexican model
SP : Singapore model
TH : Thai model
TW : Taiwan model

5-3. PRINTED WIRING BOARD - BD73/BD73U Board - • See page 15 for Circuit Boards Location. •  : Uses unleaded solder.

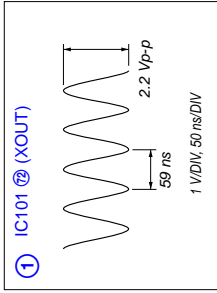


5-4. SCHEMATIC DIAGRAM - BD73/BD73U Board - • See page 18 for Waveforms. • See page 29 for IC Block Diagrams.

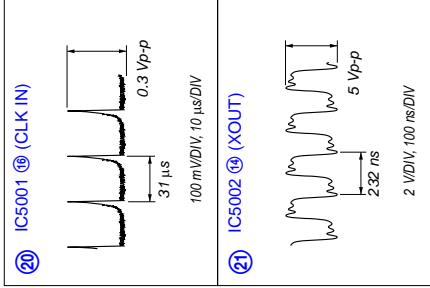


• Waveforms

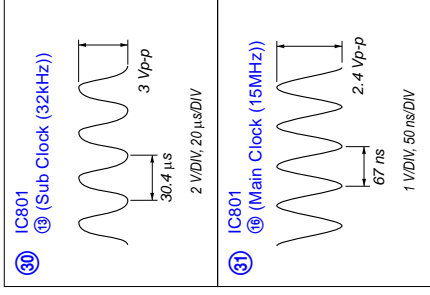
– BD73/BD73U Board –



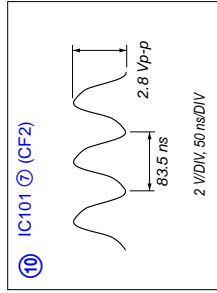
– MAIN Board –



– PANEL Board –

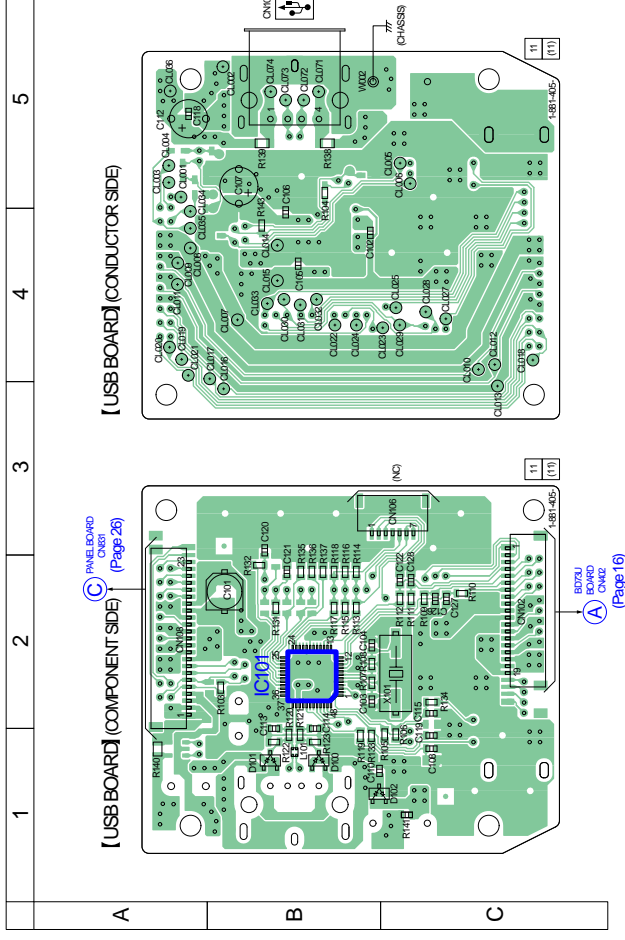


– USB Board –



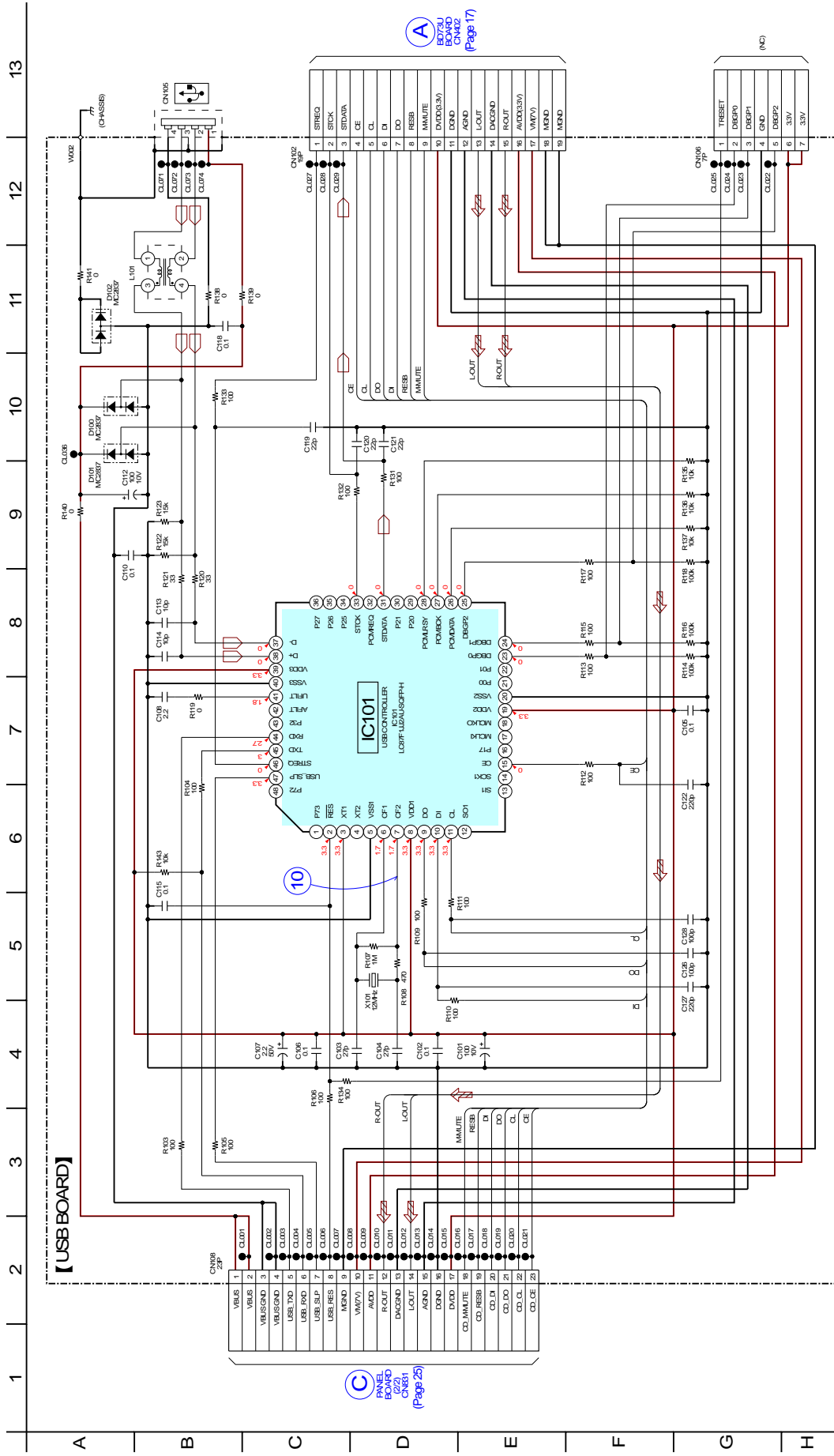
5-5. PRINTED WIRING BOARD - USB Board (AEP, E2, E51, MX) -

• See page 15 for Circuit Boards Location. • : Uses unleaded solder.



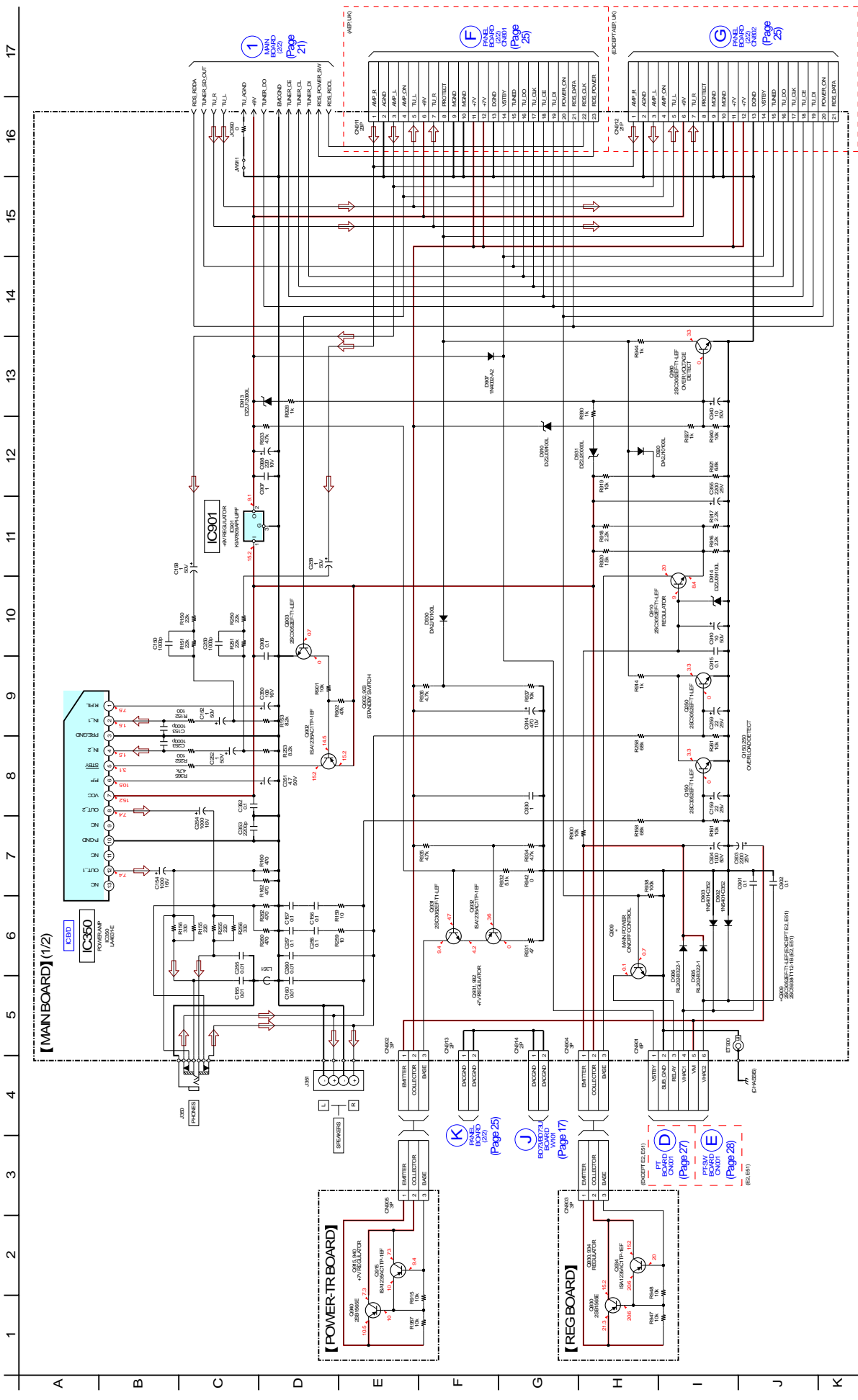
Note: IC101 cannot exchange with single. When this part is damaged, exchange the entire mounted board.

5-6. SCHEMATIC DIAGRAM - USB Board (AEP, E2, E51, MX) - • See page 18 for Waveforms. • See page 33 for IC Pin Function Description.

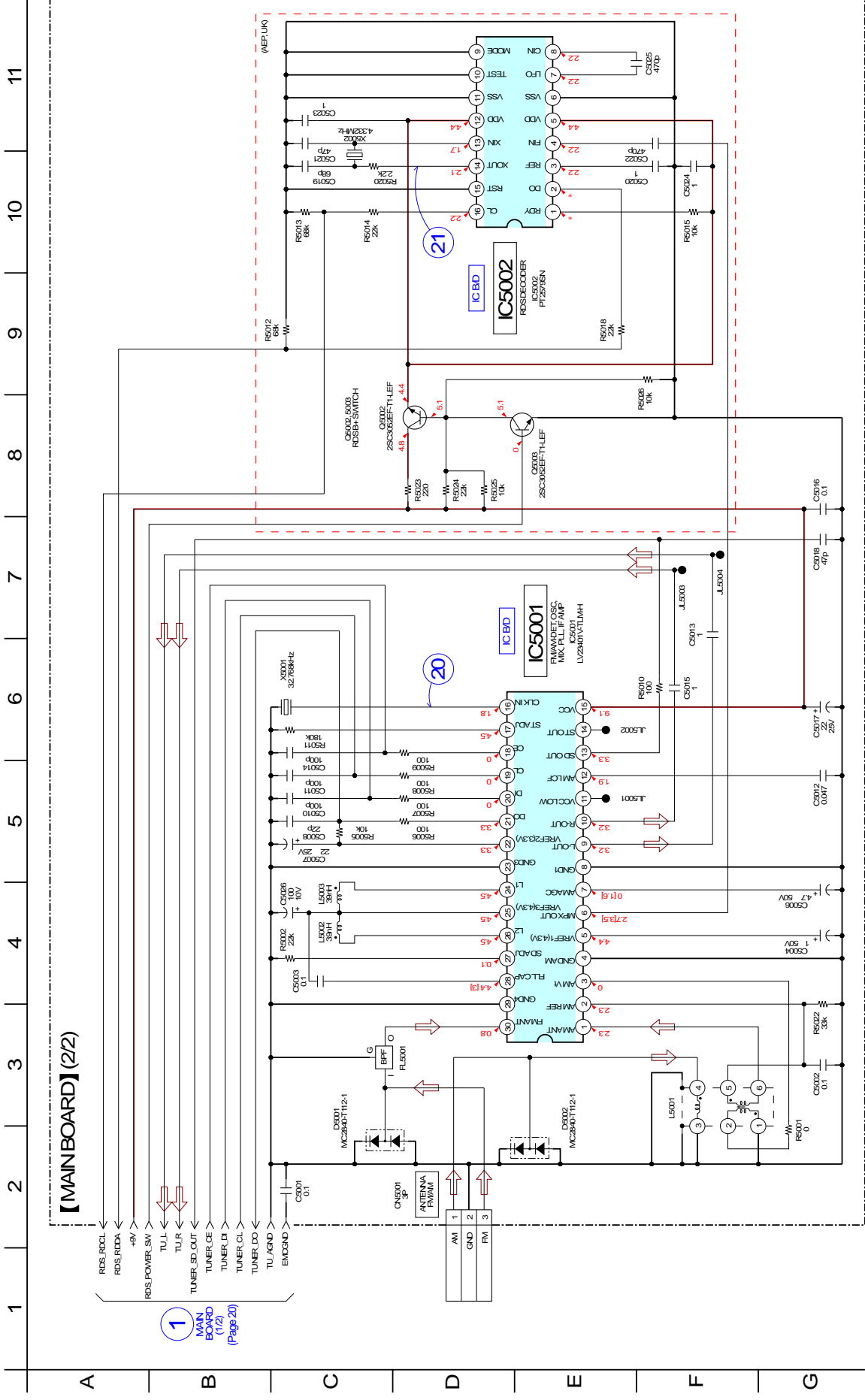


Note: IC101 cannot exchange with single. When this part is damaged, exchange the entire mounted board.

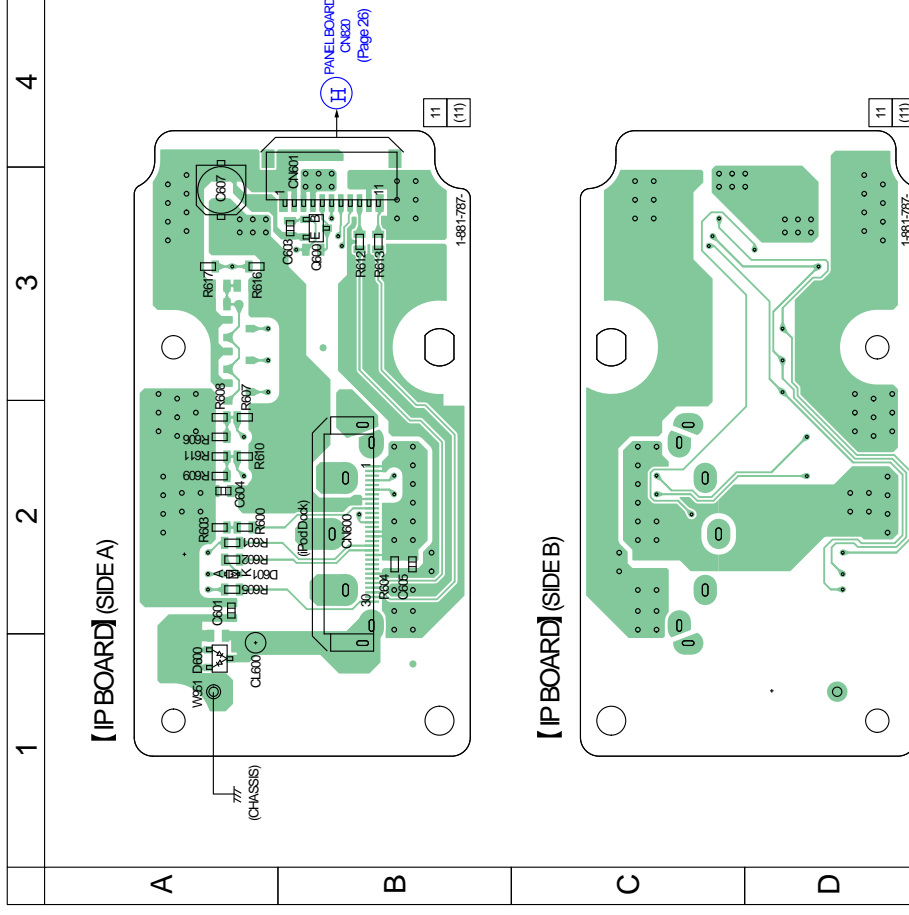
5-7. SCHEMATIC DIAGRAM - MAIN Section (1/2) - • See page 29 for IC Block Diagrams.



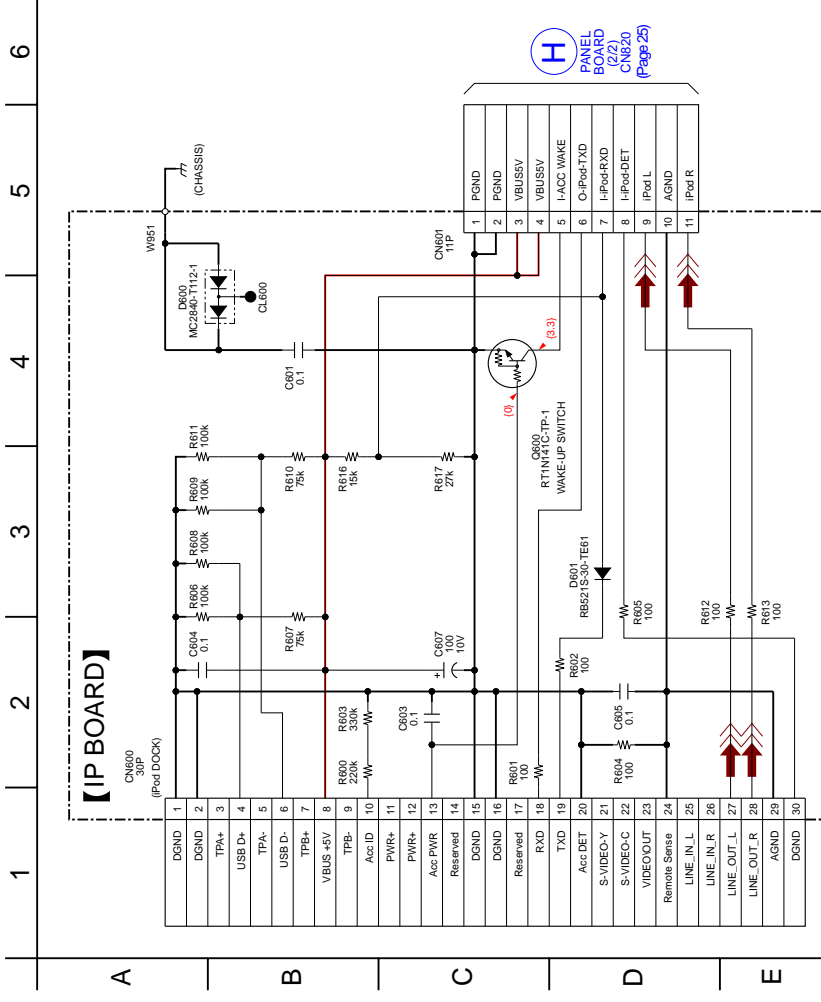
5-8. SCHEMATIC DIAGRAM - MAIN Section (2/2) - • See page 18 for Waveforms. • See page 29 for IC Block Diagrams.



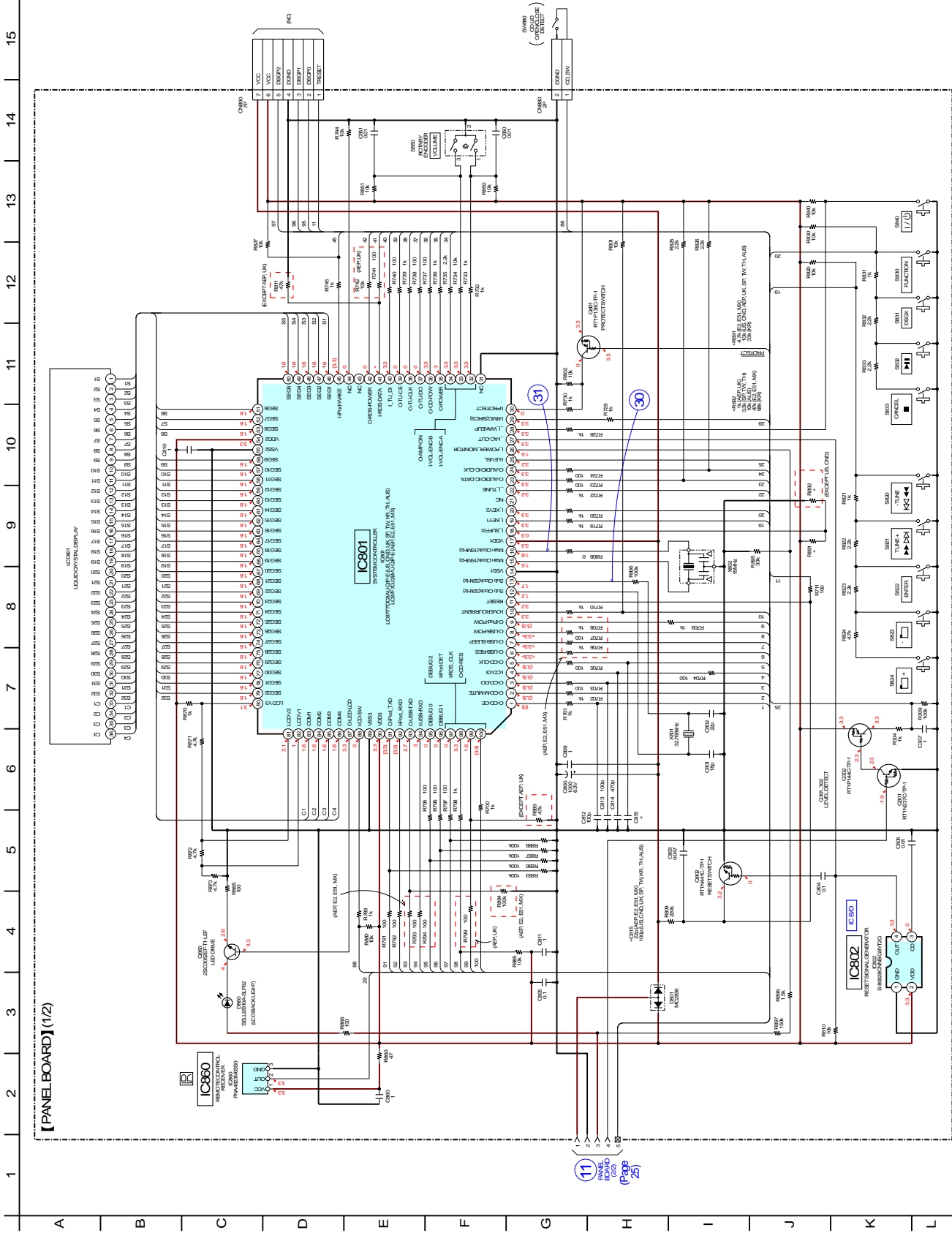
5-10. PRINTED WIRING BOARD - IP Board - • See page 15 for Circuit Boards Location.
 • **HF** : Uses unleaded solder.



5-11. SCHEMATIC DIAGRAM - IP Board -

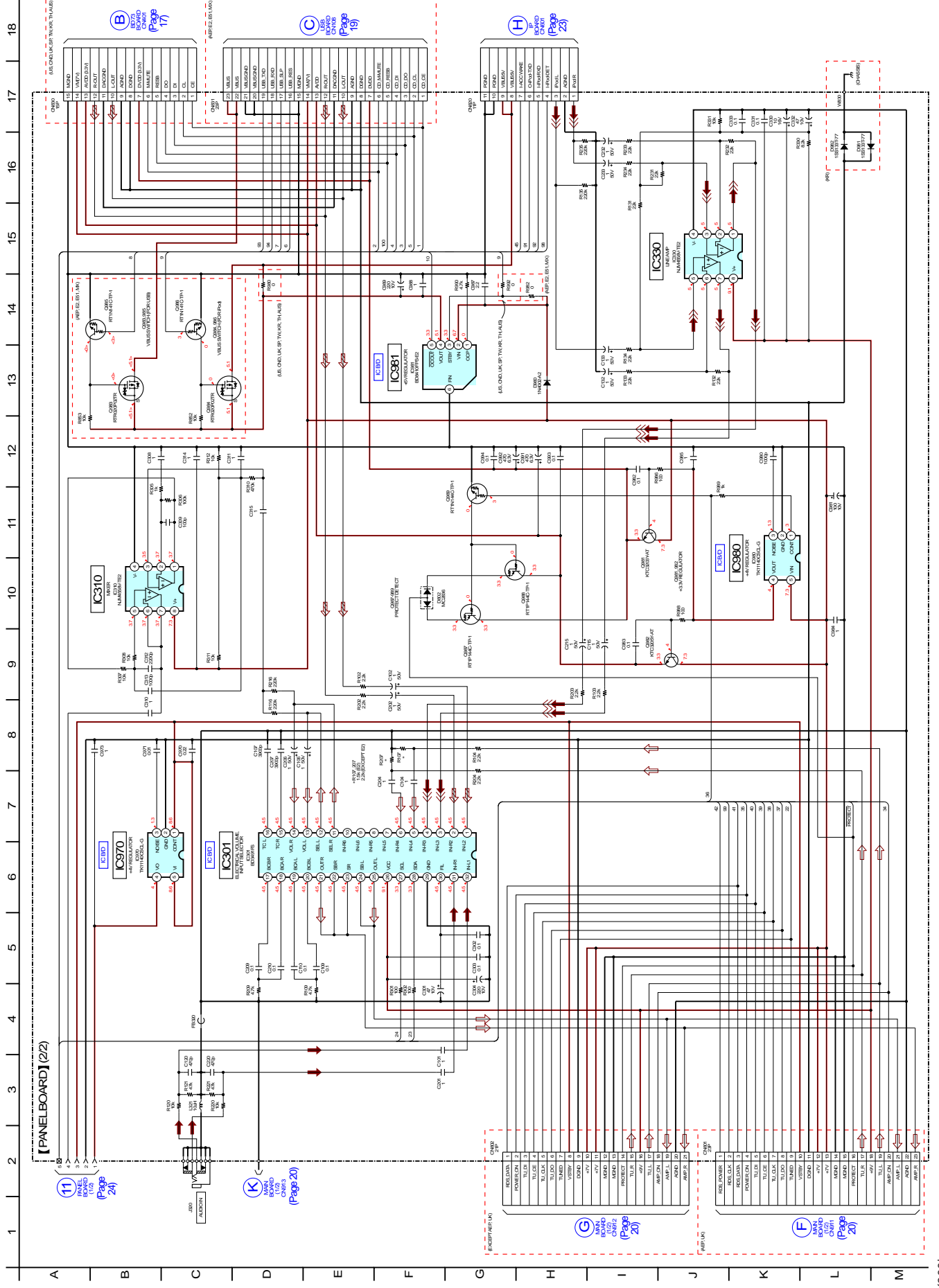


5-12. SCHEMATIC DIAGRAM - PANEL Board (1/2) - • See page 18 for Waveforms. • See page 29 for IC Block Diagrams. • See page 33 for IC Pin Function Description.

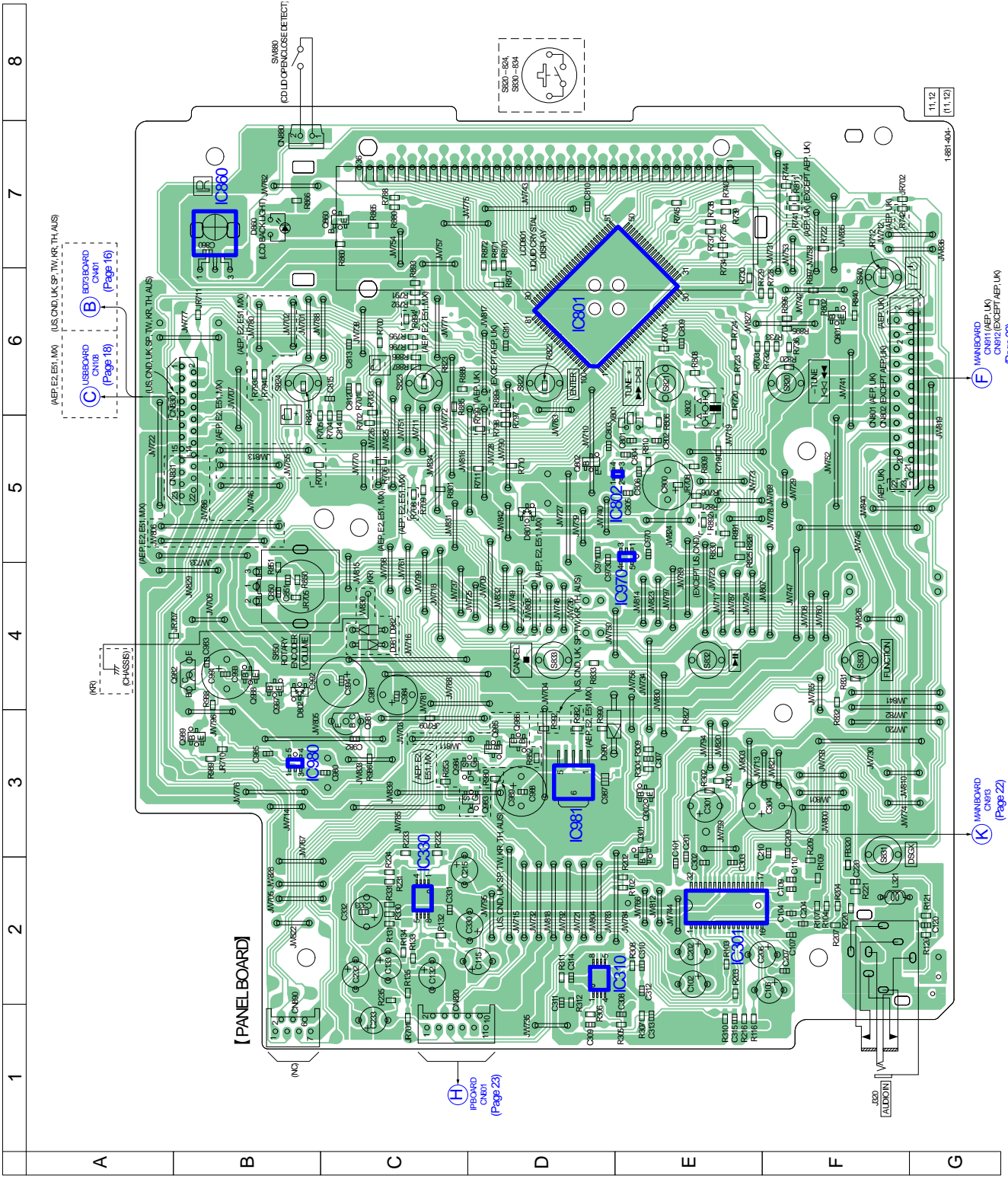


(11)
Page 25

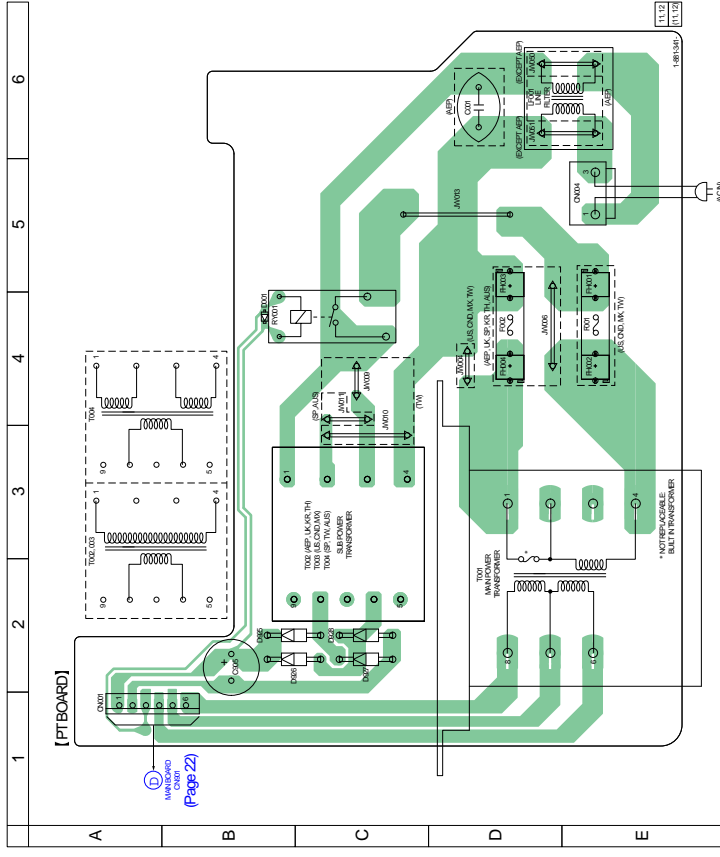
5-13. SCHEMATIC DIAGRAM - PANEL Board (2/2) - • See page 29 for IC Block Diagrams.



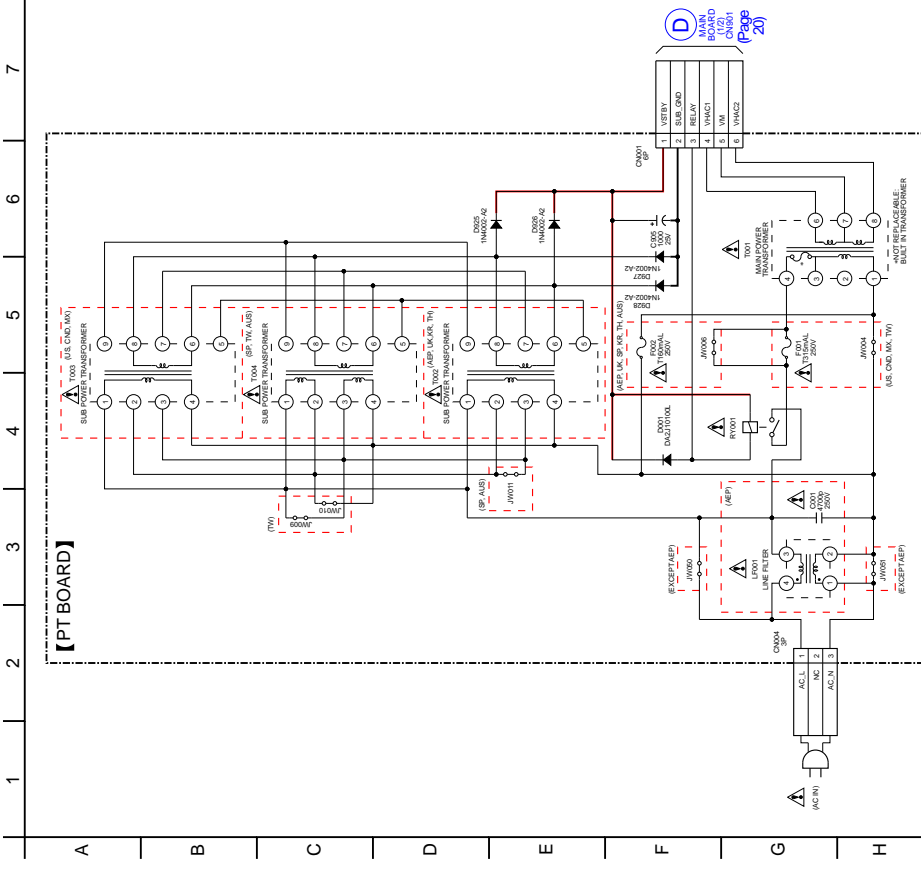
5-14. PRINTED WIRING BOARD - PANEL Board - • See page 15 for Circuit Boards Location. • **LF** : Uses unleaded solder.



5-15. PRINTED WIRING BOARD - PT Board (Except E2, E51) -
 • See page 15 for Circuit Boards Location. •  : Uses unleaded solder.

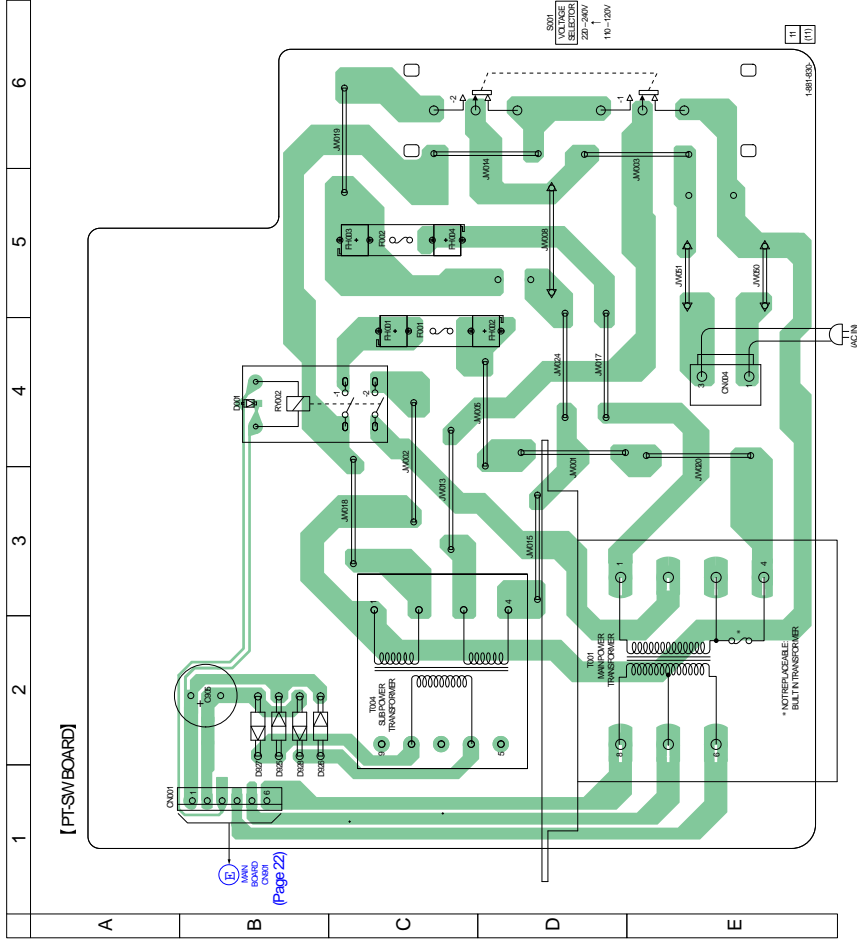


5-16. SCHEMATIC DIAGRAM - PT Board (Except E2, E51) -

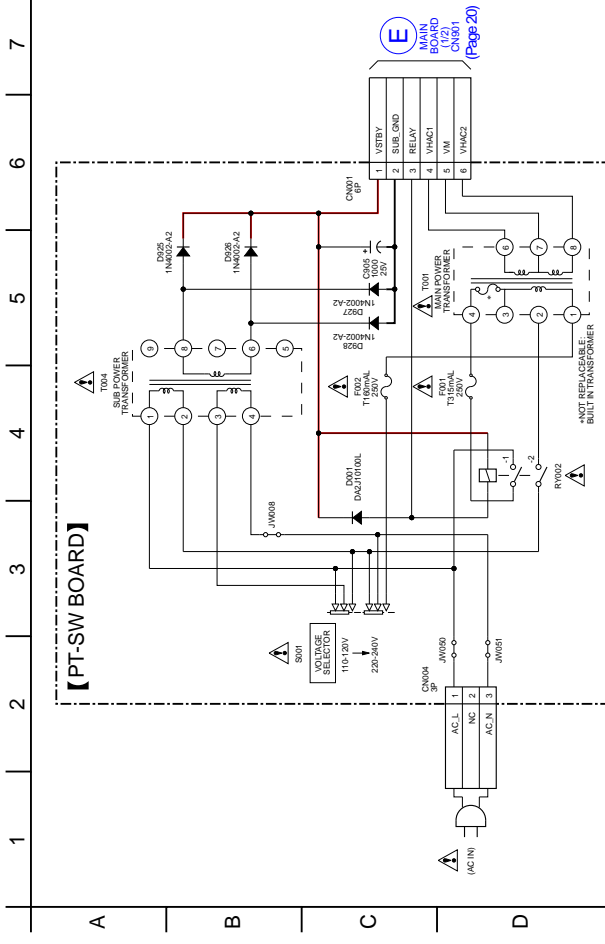


5-17. PRINTED WIRING BOARD - PT-SW Board (E2, E51) -

• See page 15 for Circuit Boards Location. •  : Uses unleaded solder.

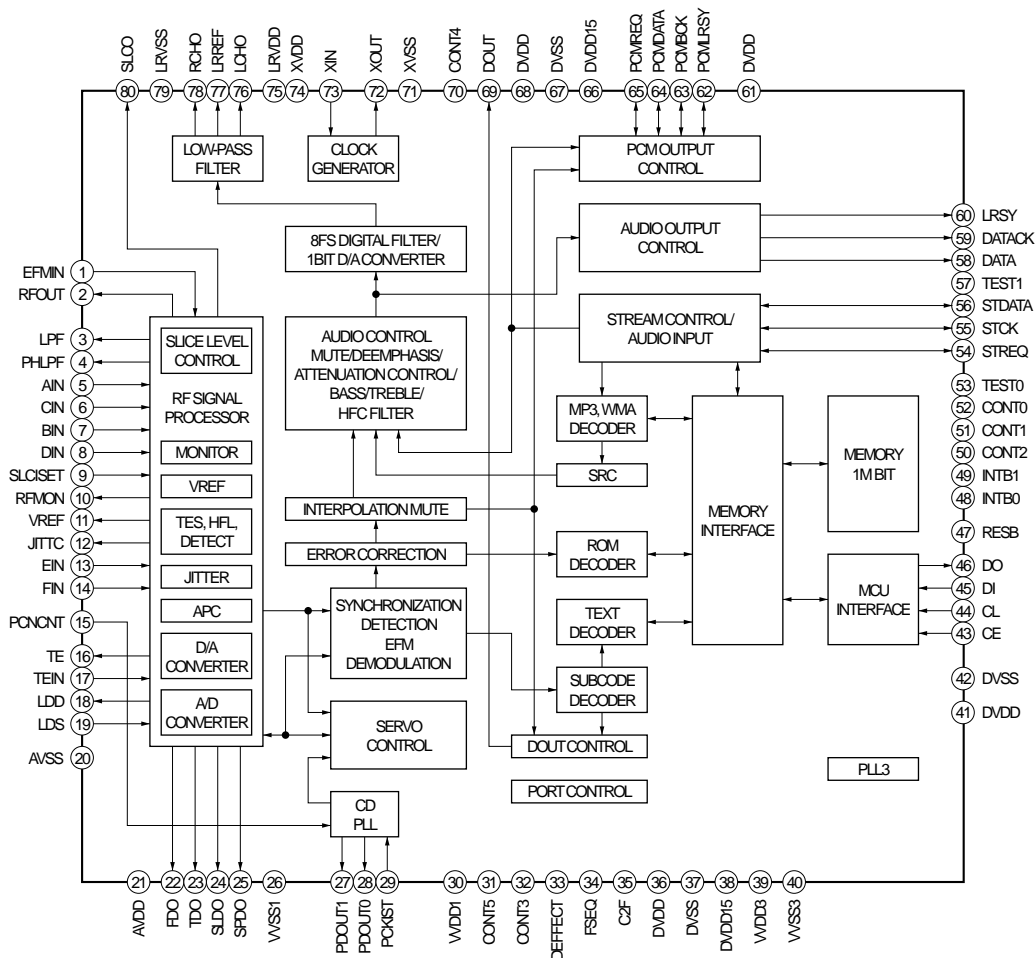


5-18. SCHEMATIC DIAGRAM - PT-SW Board (E2, E51) -

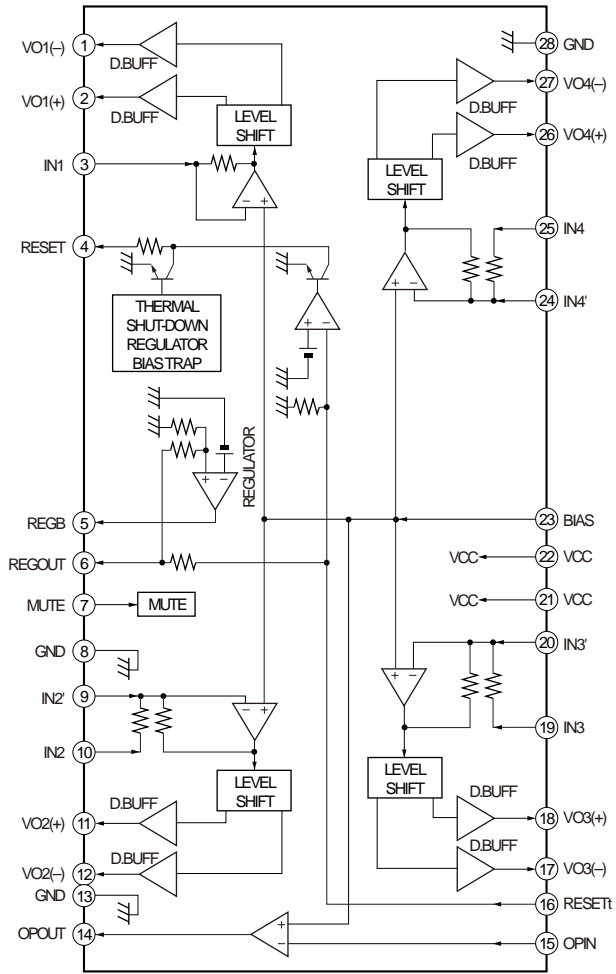


• IC Block Diagrams

– BD73/BD73U Board –
 IC101 LC786924NT-US-H

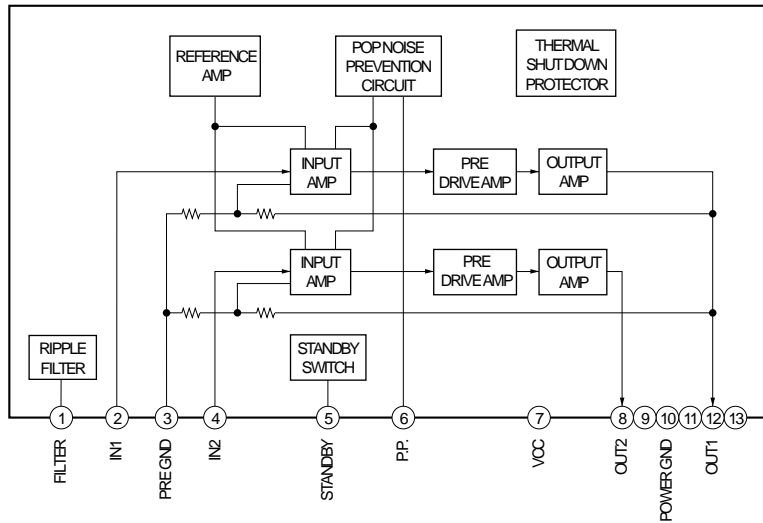


IC301 BA5826HFP-E2

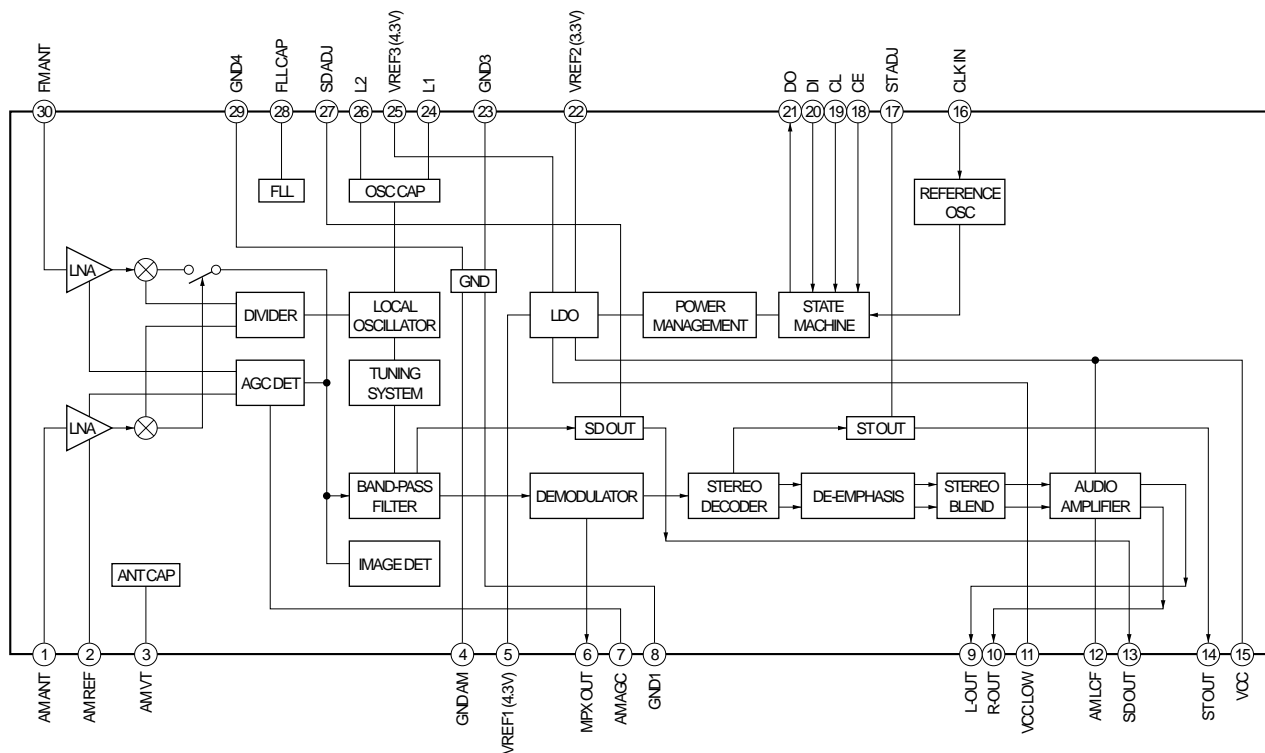


- MAIN Board -

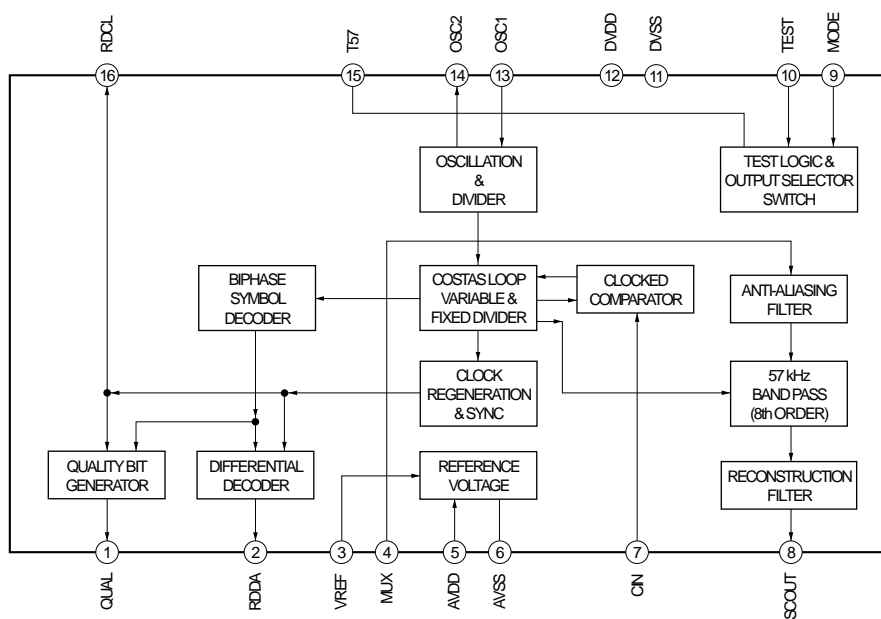
IC350 LA4631-E



IC5001 LV23401V-TLM-H

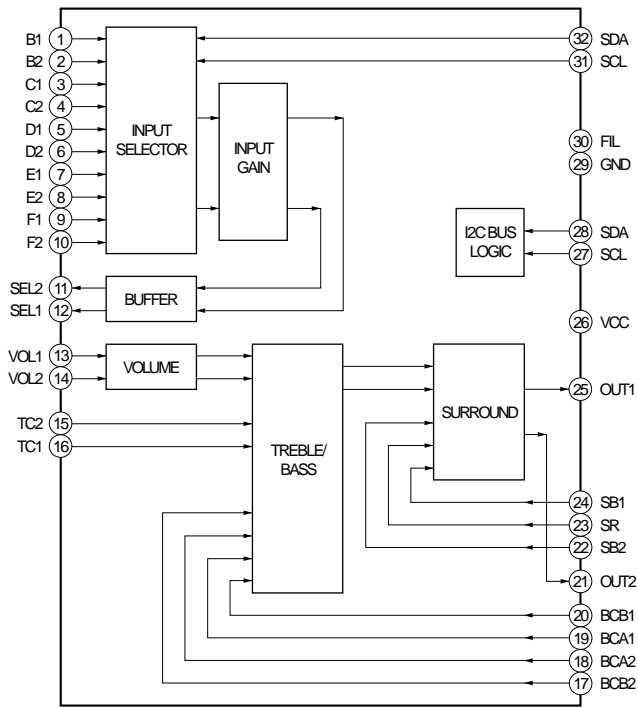


IC5002 PT2579SN

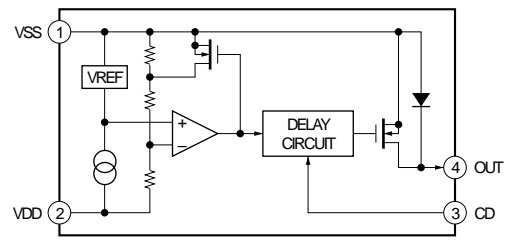


– PANEL Board –

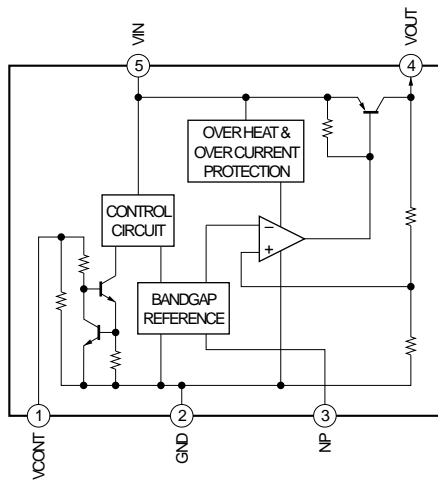
IC301 BD3491FS-SE2



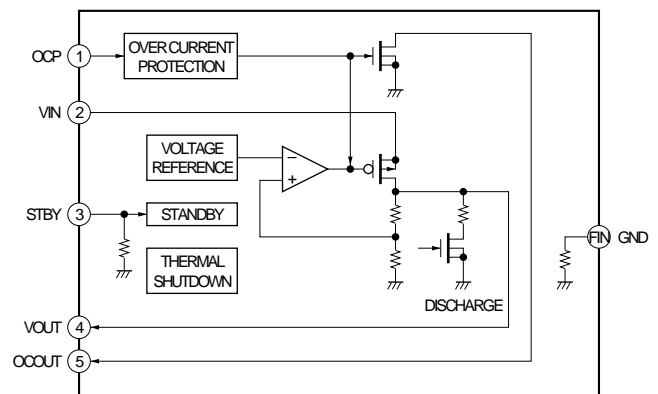
IC802 S-80928CNNB-G8YT2G



IC970, 980 TK11140CSCL-G



IC981 BD8410FPS-E2



- IC Pin Function Description

USB BOARD IC101 LC87F1JJ2AU-SQFP-H (USB CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	P73	I/O	Not used
2	/RES	I	Reset signal input from the system controller "L": reset
3	XT1	I	Sub system clock input terminal (32.768 kHz) Not used
4	XT2	O	Sub system clock output terminal (32.768 kHz) Not used
5	VSS1	-	Ground terminal
6	CF1	I	Main system clock input terminal (12 MHz)
7	CF2	O	Main system clock output terminal (12 MHz)
8	VDD1	-	Power supply terminal (+3.3V)
9	DO	O	Serial data output to the CD-MP3 processor
10	DI	I	Serial data input from the CD-MP3 processor
11	CL	O	Serial data transfer clock signal output to the CD-MP3 processor
12	SO1	O	Serial data output terminal Not used
13	SI1	I	Serial data input terminal Not used
14	SCK1	O	Serial data transfer clock signal output terminal Not used
15	CE	O	Chip enable signal output to the CD-MP3 processor
16	P17	I/O	Not used
17	MCLKI	I	Master clock signal input terminal Not used
18	MCLKO	O	Master clock signal output terminal Not used
19	VDD2	-	Power supply terminal (+3.3V)
20	VSS2	-	Ground terminal
21, 22	P00, P01	I/O	Not used
23 to 25	DBGP0 to DBGP2	-	Debug terminal
26	PCMDATA	I/O	Serial data input/output terminal Not used
27	PCMBCK	I/O	Bit clock signal input/output terminal Not used
28	PCMLRSY	I/O	L/R sampling clock signal input/output terminal Not used
29, 30	P20, P21	I/O	Not used
31	STDATA	O	Audio serial data output to the CD-MP3 processor
32	PCMREQ	I/O	Request signal input/output terminal Not used
33	STCK	O	Audio serial data transfer clock signal output to the CD-MP3 processor
34 to 36	P25 to P27	I/O	Not used
37	D-	I	USB data (-) bus input terminal
38	D+	I	USB data (+) bus input terminal
39	VDD3	-	Power supply terminal (+3.3V)
40	VSS3	-	Ground terminal
41	UFILT	-	PLL filter circuit connection terminal for USB interface
42	AFILT	-	PLL filter circuit connection terminal for audio interface Not used
43	P32	I/O	Not used
44	RXD	I	Serial data input from the system controller
45	TXD	O	Serial data output to the system controller
46	STREQ	I	Request signal input from the CD-MP3 processor
47	USB_SLP	I	Sleep signal input from the system controller
48	P72	I/O	Not used

PANEL BOARD IC801

LC87F7DC8AU-QIP-E (SYSTEM CONTROLLER)

(US, Canadian, UK, Singapore, Taiwan, Korean, Thai and Australian models)

LC87F7DJ2BVU-QIP-E (SYSTEM CONTROLLER) (AEP, 120V AC area in E, Mexican, Chilean and Peruvian models)

Pin No.	Pin Name	I/O	Description
1	O-CD-CE	O	Chip enable signal output to the CD-MP3 processor
2	O-CD-M-MUTE	O	Muting signal output to the coil/motor driver
3	O-CD-DO	O	Serial data output to the CD-MP3 processor
4	I-CD-DI	I	Serial data input from the CD-MP3 processor
5	O-CD-CLK	O	Serial data transfer clock signal output to the CD-MP3 processor
6	O-USB-RES	O	Reset signal output to the USB controller "L": reset (AEP, 120V AC area in E, Mexican, Chilean and Peruvian models only)
7	O-USB-SLEEP	O	Sleep signal output to the USB controller (AEP, 120V AC area in E, Mexican, Chilean and Peruvian models only)
8	O-USB-POW	O	USB VBUS +5V power supply on/off control signal output terminal "H": power on (AEP, 120V AC area in E, Mexican, Chilean and Peruvian models only)
9	O-iPod-POW	O	iPod VBUS +5V power supply on/off control signal output terminal "H": power on
10	I-OVERCURRENT	I	Over current detection signal input terminal for USB controller power supply
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 change to "H"
12	Sub Clock (32kHz)	I	Sub system clock input terminal (32.768 kHz)
13	Sub Clock (32kHz)	O	Sub system clock output terminal (32.768 kHz)
14	VSS1	-	Ground terminal
15	Main Clock (15kHz)	I	Main system clock input terminal (15 MHz)
16	Main Clock (15kHz)	O	Main system clock output terminal (15 MHz)
17	VDD1	-	Power supply terminal (+3.3V)
18	I_SUFFIX	I	Destination setting terminal
19, 20	I_KEY1, I_KEY2	I	Front panel key input terminal (A/D input)
21	NC	-	Not used
22	_I-TUNE	I	Tuned detection signal input from the FM/AM tuner "L": tuned
23	O-AUDIO IC-DATA	O	Serial data output to the electrical volume
24	O-AUDIO IC-CLK	O	Serial data transfer clock signal output to the electrical volume
25	I-LEVEL	I	Sound level detection signal input from the electrical volume
26	I_POWER_MONITOR	I	Power supply monitor terminal
27	_I-AC-CUT	I	AC cut detection signal input terminal "L": AC cut is detected
28	_I-WAKEUP	I	Wake-up signal input terminal by power switch key is pressed "L": wake-up
29	I-RMC(SIRCS)	I	SIRCS signal input from the remote control receiver
30	I-PROTECT	I	Protect signal input terminal "H": protect on
31	NC	-	Not used
32	I-VOL-ENC-A	I	Jog dial pulse input from the rotary encoder (A phase input) (for volume)
33	I-VOL-ENC-B	I	Jog dial pulse input from the rotary encoder (B phase input) (for volume)
34	O-AMP-ON	O	Standby signal output to the power amplifier "L": standby
35	O-POWER	O	System power supply on/off control signal output terminal "H": power on
36	O-CD-POW	O	CD power supply on/off control signal output terminal "H": power on
37	O-TU-DO	O	Serial data output to the FM/AM tuner
38	O-TU-CLK	O	Serial data transfer clock signal output to the FM/AM tuner
39	O-TU-CE	O	Chip enable signal output to the FM/AM tuner
40	I-TU-DI	I	Serial data input from the FM/AM tuner
41	I-RDS-DATA	I	RDS serial data input from the RDS decoder (AEP and UK models only)
42	O-RDS-POWER	O	RDS power supply on/off control signal output terminal "H": power on (AEP and UK models only)
43, 44	NC	-	Not used
45	I-iPod-WAKE	I	Wake-up signal input terminal by iPod is connected "L": wake-up
46 to 53	SEG1 to SEG8	O	Segment drive signal output to the liquid crystal display
54	VDD2	-	Power supply terminal (+3.3V)
55	VSS2	-	Ground terminal
56 to 79	SEG9 to SEG32	O	Segment drive signal output to the liquid crystal display
80 to 82	LCD V3 to LCD V1	I	Liquid crystal display drive voltage setting terminal
83 to 86	COM1 to COM4	O	Common drive signal output to the liquid crystal display
87	O-LED-LCD	O	LED drive signal output terminal for liquid crystal display backlight "H": LED on
88	I-CD-SW	I	CD lid open/close detection switch input terminal "L": CD lid is opened
89	VSS3	-	Ground terminal

Pin No.	Pin Name	I/O	Description
90	VDD3	-	Power supply terminal (+3.3V)
91	O-iPod_TXD	O	Serial data output to the iPod
92	I-iPod_RXD	I	Serial data input from the iPod
93	O-USB_TXD	O	Serial data output to the USB controller (AEP, 120V AC area in E, Mexican, Chilean and Peruvian models only)
94	I-USB_RXD	I	Serial data input from the USB controller (AEP, 120V AC area in E, Mexican, Chilean and Peruvian models only)
95 to 97	DEBUG 0 to DEBUG 2	-	Debug terminal
98	i-iPod-DET	I	iPod detection signal input terminal "H": iPod is connected
99	I-RDS-CLK	I	RDS serial data transfer clock signal input from the RDS decoder (AEP and UK models only)
100	O-CD-RES	O	Reset signal output to the CD-MP3 processor "L": reset

SECTION 6 EXPLODED VIEWS

Note:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

- Color Indication of Appearance Parts Example:
 KNOB, BALANCE (WHITE) . . . (RED)

↑
↑

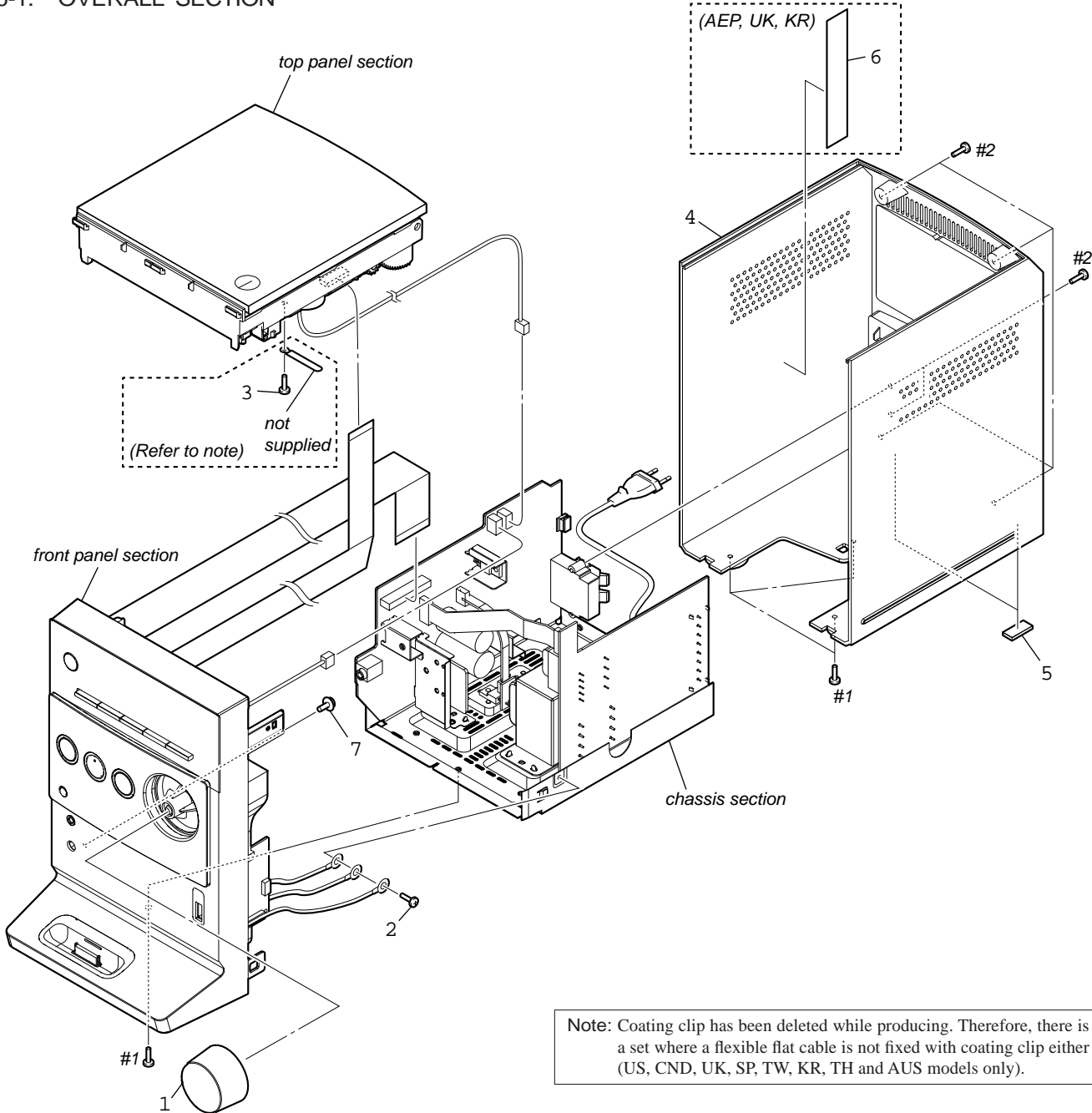
 Parts Color Cabinet's Color
- Abbreviation
 AUS : Australian model
 CND : Canadian model
 E2 : 120V AC area in E model
 E51 : Chilean and Peruvian models
 KR : Korean model
 MX : Mexican model

- SP : Singapore model
- TH : Thai model
- TW : Taiwan model

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

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
 Ne les remplacer que par une pièce portant le numéro spécifié.

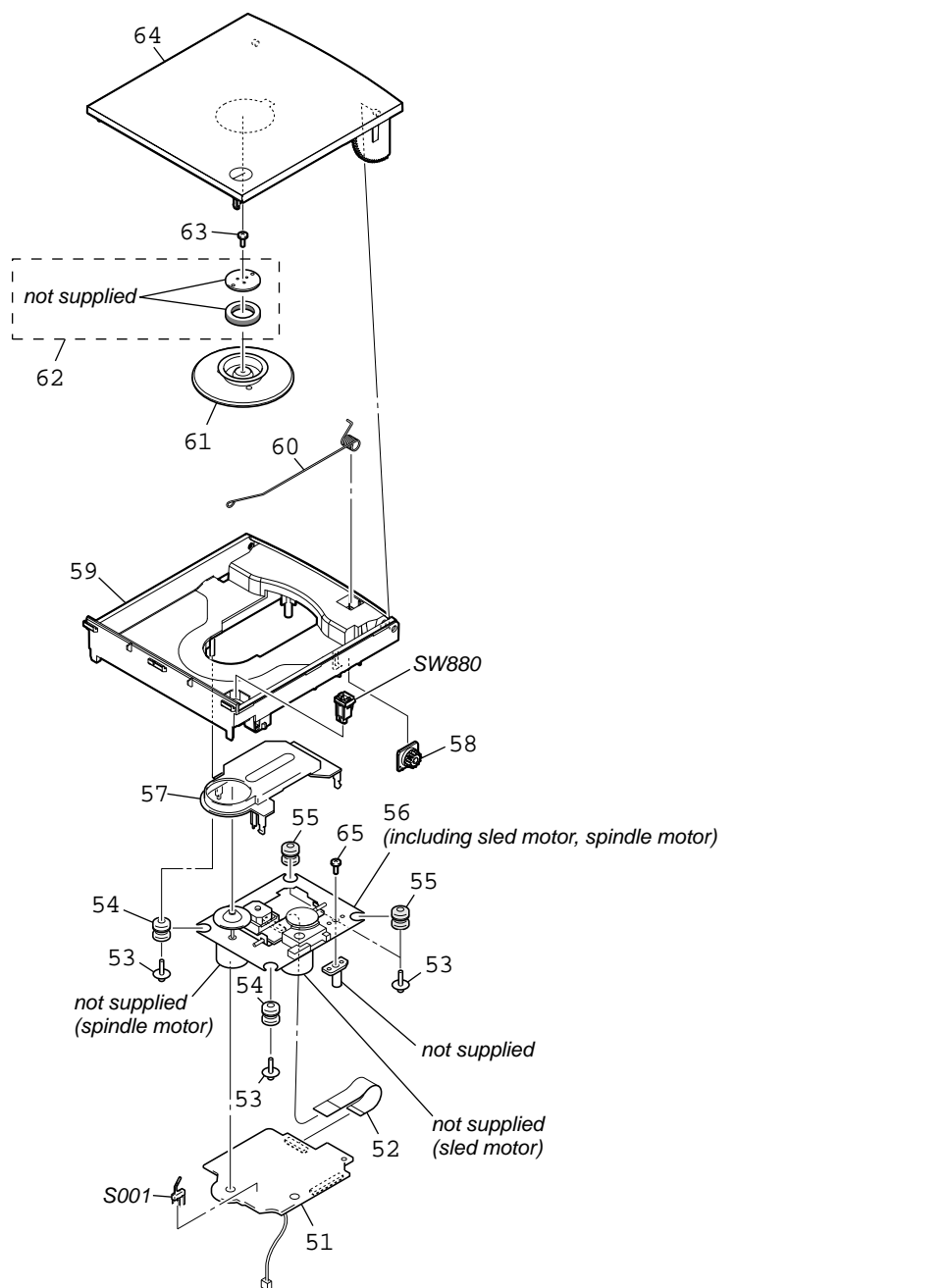
6-1. OVERALL SECTION



Note: Coating clip has been deleted while producing. Therefore, there is a set where a flexible flat cable is not fixed with coating clip either (US, CND, UK, SP, TW, KR, TH and AUS models only).

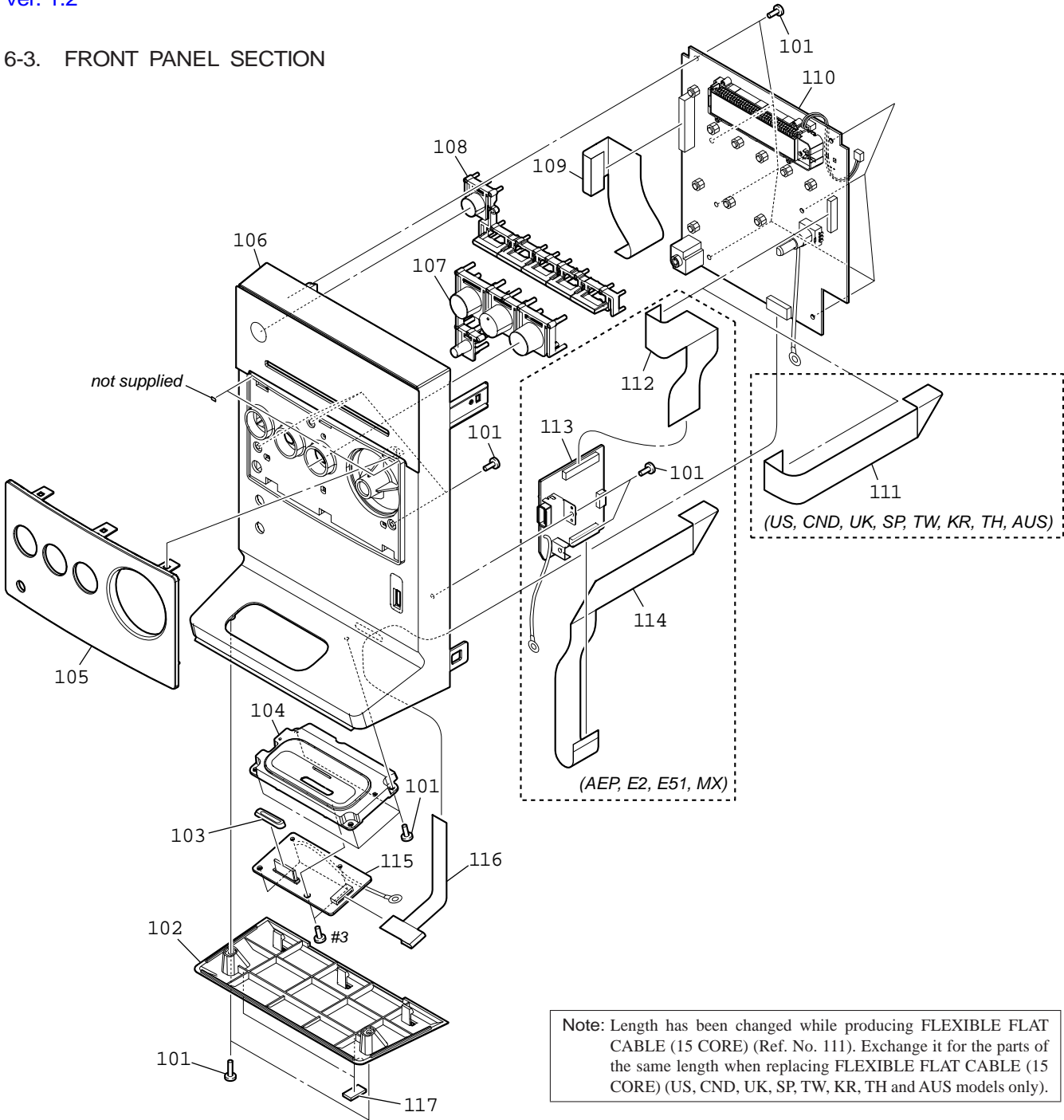
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-171-957-01	KNOB (VOL)		4	4-171-952-51	PANEL (REAR) (E2, E51)	
2	3-077-331-21	+BV3 (3-CR)		5	3-198-753-11	FOOT (FELT)	
3	3-087-053-01	+BVTP2.6 (3CR)		6	4-191-085-01	SHEET, COPPER (AEP, UK, KR)	
4	4-171-952-01	PANEL (REAR) (CND)		7	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
4	4-171-952-11	PANEL (REAR) (US)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
4	4-171-952-21	PANEL (REAR) (AEP, UK, SP, TW, KR, TH, AUS)		#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
4	4-171-952-41	PANEL (REAR) (MX)					

6-2. TOP PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	A-1748-697-A	BD73 BOARD, COMPLETE (US, CND, UK, SP, TW, KR, TH, AUS)		60	4-171-965-01	SPRING CD	
51	A-1748-698-A	BD73U BOARD, COMPLETE (AEP, E2, E51, MX)		61	4-161-552-01	PULLEY, CHUCKING (D1)	
52	1-834-268-21	WIRE (FLAT TYPE) (16 CORE)		62	1-452-899-31	MAGNET	
53	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING		63	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
54	3-931-379-31	RUBBER, VIBRATION PROOF (GREEN)		64	4-171-955-11	LID CD (US)	
55	3-931-379-21	RUBBER, VIBRATION PROOF (RED)		64	4-171-955-21	LID CD (EXCEPT US)	
△ 56	A-1780-028-A	OPTICAL PICK-UP BLOCK (DA11MMVGP) (Including sled motor, spindle motor)		65	3-080-204-31	SCREW, TAPPING, P2	
57	4-166-010-01	COVER (D1)		S001	1-771-853-11	SWITCH, DETECTION (LIMIT)	
58	4-232-238-01	DAMPER		SW880	1-692-960-11	SWITCH, PUSH (1 KEY) (CD LID OPEN/CLOSE DETECT)	
59	4-171-954-11	PANEL (TOP)					

6-3. FRONT PANEL SECTION

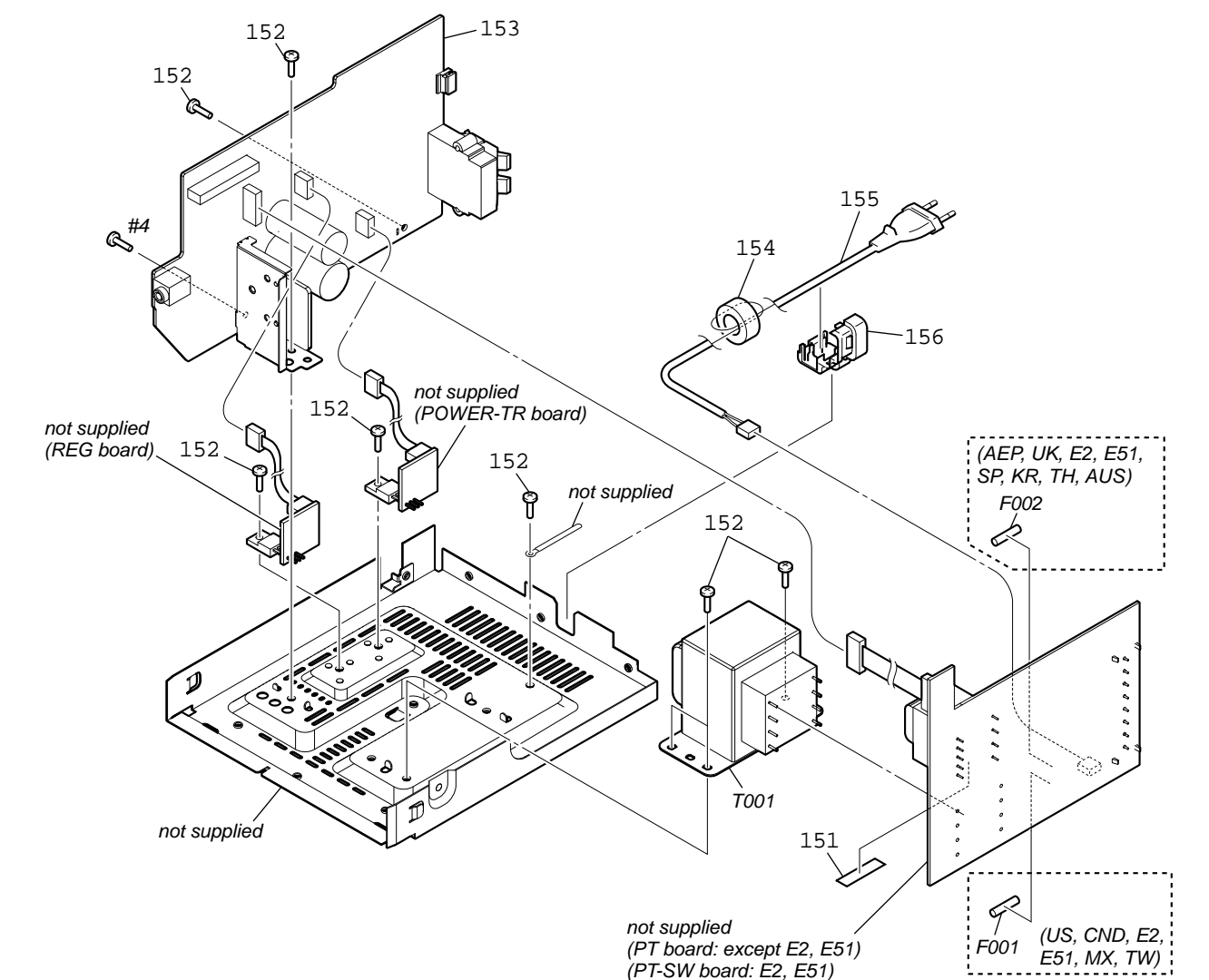


Note: Length has been changed while producing FLEXIBLE FLAT CABLE (15 CORE) (Ref. No. 111). Exchange it for the parts of the same length when replacing FLEXIBLE FLAT CABLE (15 CORE) (US, CND, UK, SP, TW, KR, TH and AUS models only).

Ref. No.	Part No.	Description	Remark
101	3-087-053-01	+BVTP2.6 (3CR)	
102	4-171-960-01	STAGE (BOTTOM)	
103	3-277-576-01	ESCUTCHEON	
104	X-2547-707-1	IP ASSY	
105	4-171-953-01	PLATE (FRONT)	(US, CND, UK, SP, TW, KR, TH, AUS)
105	4-171-953-11	PLATE (FRONT) (AEP, E2, E51, MX)	
106	X-2547-706-1	FRONT ASSY (US)	
106	X-2547-712-1	FRONT ASSY (CND, UK, SP, TW, KR, TH, AUS)	
106	X-2547-713-1	FRONT ASSY (AEP)	
106	X-2547-714-1	FRONT ASSY (E2, E51, MX)	
107	4-171-958-01	BUTTON (FUNCTION) (FUNCTION, ►, ■)	(US, CND, UK, SP, TW, KR, TH, AUS)
107	4-171-958-11	BUTTON (FUNCTION) (FUNCTION, ►, ■)	(AEP, E2, E51, MX)
108	4-171-959-01	BUTTON (POWER) (I/⏻)	
109	1-832-876-21	CABLE, FLEXIBLE FLAT (21 CORE)	(EXCEPT AEP, UK)
109	1-832-886-21	CABLE, FLEXIBLE FLAT (23 CORE) (AEP, UK)	
110	A-1749-746-A	PANEL BOARD, COMPLETE (US, CND)	
110	A-1749-747-A	PANEL BOARD, COMPLETE (AUS)	

Ref. No.	Part No.	Description	Remark
110	A-1749-748-A	PANEL BOARD, COMPLETE (SP, TW, TH)	
110	A-1749-749-A	PANEL BOARD, COMPLETE (AEP)	
110	A-1749-750-A	PANEL BOARD, COMPLETE (E51, MX)	
110	A-1765-489-A	PANEL BOARD, COMPLETE (KR)	
110	A-1765-490-A	PANEL BOARD, COMPLETE (UK)	
110	A-1771-584-A	PANEL BOARD, COMPLETE (E2)	
111	1-832-587-21	CABLE, FLEXIBLE FLAT (15 CORE)	(length: 200 mm) (Former) (US, CND, UK, SP, TW, KR, TH, AUS)
111	1-838-301-21	CABLE, FLEXIBLE FLAT (15 CORE)	(length: 185 mm) (New) (US, CND, UK, SP, TW, KR, TH, AUS)
112	1-832-626-21	CABLE, FLEXIBLE FLAT (23 CORE)	(AEP, E2, E51, MX)
113	A-1754-831-A	USB BOARD, COMPLETE (AEP, E2, E51, MX)	
114	1-837-819-21	CABLE, FLEXIBLE FLAT (19 CORE)	(AEP, E2, E51, MX)
115	A-1765-911-A	IP BOARD, COMPLETE	
116	1-832-566-21	CABLE, FLEXIBLE FLAT (11 CORE)	
117	4-186-795-01	FOOT (FELT)	
#3	7-685-504-19	SCREW +BTP 2X6 TYPE2 N-S	

6-4. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-178-707-01	CUSHION (SUB TRANS)		△ 155	1-837-345-11	CORD, POWER-SUPPLY (TW)	
152	3-077-331-21	+BV3 (3-CR)		156	3-703-244-00	BUSHING (2104), CORD (EXCEPT TH)	
153	A-1749-735-A	MAIN BOARD, COMPLETE (AEP, UK)		156	4-916-783-01	BUSHING, CORD (TH)	
153	A-1749-736-A	MAIN BOARD, COMPLETE (US, CND, MX, SP, TW, TH, AUS)		△ F001	1-532-467-33	FUSE (T315mA/250V) (US, CND, E2, E51, MX, TW)	
153	A-1765-499-A	MAIN BOARD, COMPLETE (E2, E51)		△ F002	1-523-156-31	FUSE (T160mA/250V) (AEP, UK, E2, E51, SP, KR, TH, AUS)	
153	A-1766-840-A	MAIN BOARD, COMPLETE (KR)		△ T001	1-445-858-11	TRANSFORMER, POWER (AEP, UK)	
154	1-500-868-11	CORE, FERRITE		△ T001	1-445-859-11	TRANSFORMER, POWER (US, CND, MX)	
△ 155	1-834-288-12	CORD, POWER (TH)		△ T001	1-445-860-11	TRANSFORMER, POWER (SP, AUS)	
△ 155	1-834-966-41	POWER-SUPPLY CORD (AEP, E2, E51, SP)		△ T001	1-445-861-11	TRANSFORMER, POWER (KR, TH)	
△ 155	1-835-068-21	CORD, POWER (AUS)		△ T001	1-445-862-11	TRANSFORMER, POWER (TW)	
△ 155	1-837-308-11	CORD, POWER-SUPPLY (US, CND)		△ T001	1-445-863-11	TRANSFORMER, POWER (E2, E51)	
△ 155	1-837-309-21	CORD, POWER (UK)					
△ 155	1-837-311-21	CORD, POWER-SUPPLY (KR)		#4	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3	
△ 155	1-837-344-11	CORD, POWER-SUPPLY (MX)					

SECTION 7 ELECTRICAL PARTS LIST

Note:

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

- **CAPACITORS**
uF: μ F
- **COILS**
uH: μ H
- **SEMICONDUCTORS**
In each case, u: μ , for example:
uA. . . : μ A. . . , uPA. . . , μ PA. . . ,
uPB. . . : μ PB. . . , uPC. . . , μ PC. . . ,
uPD. . . : μ PD. . .
- **Abbreviation**
AUS : Australian model
CND : Canadian model
E2 : 120V AC area in E model
E51 : Chilean and Peruvian models
KR : Korean model
MX : Mexican model

- SP : Singapore model
- TH : Thai model
- TW : Taiwan model

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

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

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-1748-697-A	BD73 BOARD, COMPLETE (US, CND, UK, SP, TW, KR, TH, AUS)		C303	1-164-156-11	CERAMIC CHIP 0.1uF	25V
	A-1748-698-A	BD73U BOARD, COMPLETE (AEP, E2, E51, MX) *****		C304	1-164-156-11	CERAMIC CHIP 0.1uF	25V
		< CAPACITOR >		C401	1-128-995-21	ELECT CHIP 100uF	20% 10V
C101	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V	C402	1-128-995-21	ELECT CHIP 100uF	20% 10V
C102	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C403	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C103	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	C404	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C104	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	C408	1-164-315-11	CERAMIC CHIP 470PF	5% 50V (AEP, E2, E51, MX)
C105	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C409	1-164-230-11	CERAMIC CHIP 220PF	5% 50V
C106	1-162-967-11	CERAMIC CHIP 0.0033uF	10% 50V	C410	1-164-230-11	CERAMIC CHIP 220PF	5% 50V
C107	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	C413	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
C108	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C414	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
C110	1-127-715-11	CERAMIC CHIP 0.22uF	10% 16V			< CONNECTOR >	
C111	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V	CN201	1-770-425-51	CONNECTOR, FFC/FPC 16P	
C112	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	CN401	1-784-867-51	CONNECTOR, FFC (LIF (NON-ZIF)) 15P (US, CND, UK, SP, TW, KR, TH, AUS)	
C113	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	CN402	1-784-871-51	CONNECTOR, FFC (LIF (NON-ZIF)) 19P (AEP, E2, E51, MX)	
C116	1-128-995-21	ELECT CHIP 100uF	20% 10V			< IC >	
C117	1-100-756-91	CERAMIC CHIP 0.047uF	10% 50V	IC101	6-714-785-01	IC LC786924NT-US-H	
C118	1-164-156-11	CERAMIC CHIP 0.1uF	25V	IC301	6-710-637-01	IC BA5826HFP-E2	
C119	1-128-995-21	ELECT CHIP 100uF	20% 10V			< TRANSISTOR >	
C120	1-164-156-11	CERAMIC CHIP 0.1uF	25V	Q201	6-551-120-01	TRANSISTOR 2SA2119K	
C121	1-164-156-11	CERAMIC CHIP 0.1uF	25V			< RESISTOR >	
C122	1-164-156-11	CERAMIC CHIP 0.1uF	25V	R101	1-216-815-11	METAL CHIP 330	5% 1/10W
C123	1-164-156-11	CERAMIC CHIP 0.1uF	25V	R102	1-216-833-11	METAL CHIP 10K	5% 1/10W
C124	1-128-995-21	ELECT CHIP 100uF	20% 10V	R103	1-216-864-11	SHORT CHIP 0	
C125	1-164-156-11	CERAMIC CHIP 0.1uF	25V	R104	1-216-864-11	SHORT CHIP 0	
C126	1-164-156-11	CERAMIC CHIP 0.1uF	25V	R105	1-216-864-11	SHORT CHIP 0	
C127	1-164-156-11	CERAMIC CHIP 0.1uF	25V	R106	1-216-864-11	SHORT CHIP 0	
C128	1-164-156-11	CERAMIC CHIP 0.1uF	25V	R107	1-216-843-11	METAL CHIP 68K	5% 1/10W
C129	1-128-995-21	ELECT CHIP 100uF	20% 10V	R108	1-216-821-11	METAL CHIP 1K	5% 1/10W
C130	1-164-156-11	CERAMIC CHIP 0.1uF	25V	R109	1-216-821-11	METAL CHIP 1K	5% 1/10W
C131	1-164-156-11	CERAMIC CHIP 0.1uF	25V	R111	1-216-837-11	METAL CHIP 22K	5% 1/10W
C132	1-164-156-11	CERAMIC CHIP 0.1uF	25V	R112	1-216-864-11	SHORT CHIP 0	
C133	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	R113	1-216-819-11	METAL CHIP 680	5% 1/10W
C136	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	R114	1-216-819-11	METAL CHIP 680	5% 1/10W
C201	1-164-156-11	CERAMIC CHIP 0.1uF	25V	R116	1-216-843-11	METAL CHIP 68K	5% 1/10W
C203	1-137-710-91	CERAMIC CHIP 10uF	20% 6.3V	R117	1-216-833-11	METAL CHIP 10K	5% 1/10W
C205	1-137-710-91	CERAMIC CHIP 10uF	20% 6.3V	R118	1-216-809-11	METAL CHIP 100	5% 1/10W
C206	1-165-908-11	CERAMIC CHIP 1uF	10% 10V				
C207	1-128-995-21	ELECT CHIP 100uF	20% 10V				
C208	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V				
C209	1-164-156-11	CERAMIC CHIP 0.1uF	25V				
C301	1-128-394-11	ELECT CHIP 220uF	20% 10V				
C302	1-164-156-11	CERAMIC CHIP 0.1uF	25V				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R120	1-216-833-11	METAL CHIP	10K 5% 1/10W	R603	1-218-907-11	METAL CHIP	330K 0.5% 1/10W
R121	1-216-833-11	METAL CHIP	10K 5% 1/10W	R604	1-216-809-11	METAL CHIP	100 5% 1/10W
R122	1-216-833-11	METAL CHIP	10K 5% 1/10W	R605	1-216-809-11	METAL CHIP	100 5% 1/10W
R123	1-216-833-11	METAL CHIP	10K 5% 1/10W	R606	1-218-895-11	METAL CHIP	100K 0.5% 1/10W
R124	1-216-833-11	METAL CHIP	10K 5% 1/10W	R607	1-218-892-11	METAL CHIP	75K 0.5% 1/10W
R125	1-216-833-11	METAL CHIP	10K 5% 1/10W	R608	1-218-895-11	METAL CHIP	100K 0.5% 1/10W
R126	1-216-864-11	SHORT CHIP	0	R609	1-218-895-11	METAL CHIP	100K 0.5% 1/10W
R201	1-218-446-11	METAL CHIP	1 5% 1/10W	R610	1-218-892-11	METAL CHIP	75K 0.5% 1/10W
R202	1-216-789-11	METAL CHIP	2.2 5% 1/10W	R611	1-218-895-11	METAL CHIP	100K 0.5% 1/10W
R203	1-216-864-11	SHORT CHIP	0	R612	1-216-809-11	METAL CHIP	100 5% 1/10W
R301	1-216-830-11	METAL CHIP	5.6K 5% 1/10W	R613	1-216-809-11	METAL CHIP	100 5% 1/10W
R302	1-216-839-11	METAL CHIP	33K 5% 1/10W	R616	1-216-835-11	METAL CHIP	15K 5% 1/10W
R303	1-216-834-11	METAL CHIP	12K 5% 1/10W	R617	1-216-838-11	METAL CHIP	27K 5% 1/10W
R304	1-216-833-11	METAL CHIP	10K 5% 1/10W	*****			
R305	1-216-832-11	METAL CHIP	8.2K 5% 1/10W	A-1749-735-A	MAIN BOARD, COMPLETE (AEP, UK)		
R401	1-216-295-91	SHORT CHIP	0	A-1749-736-A	MAIN BOARD, COMPLETE (US, CND, MX, SP, TW, TH, AUS)		
R402	1-216-295-91	SHORT CHIP	0	A-1765-499-A	MAIN BOARD, COMPLETE (E2, E51)		
R403	1-216-809-11	METAL CHIP	100 5% 1/10W (AEP, E2, E51, MX)	A-1766-840-A	MAIN BOARD, COMPLETE (KR) *****		
R404	1-216-809-11	METAL CHIP	100 5% 1/10W (AEP, E2, E51, MX)	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3		
R405	1-216-809-11	METAL CHIP	100 5% 1/10W (AEP, E2, E51, MX)	< CAPACITOR >			
R406	1-216-809-11	METAL CHIP	100 5% 1/10W	C150	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
R407	1-216-809-11	METAL CHIP	100 5% 1/10W	C152	1-126-960-11	ELECT	1uF 20% 50V
R408	1-216-809-11	METAL CHIP	100 5% 1/10W	C153	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
R409	1-216-809-11	METAL CHIP	100 5% 1/10W	C154	1-126-767-11	ELECT	1000uF 20% 16V
R411	1-216-809-11	METAL CHIP	100 5% 1/10W	C155	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
R412	1-216-809-11	METAL CHIP	100 5% 1/10W	C156	1-100-597-91	CERAMIC CHIP	0.1uF 10% 25V
R413	1-216-809-11	METAL CHIP	100 5% 1/10W	C157	1-100-597-91	CERAMIC CHIP	0.1uF 10% 25V
R417	1-216-295-91	SHORT CHIP	0	C158	1-126-960-11	ELECT	1uF 20% 50V
		< VIBRATOR >		C159	1-104-662-91	ELECT	22uF 20% 25V
X101	1-795-101-21	VIBRATOR, CERAMIC (16.934MHz)		C160	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V

	A-1765-911-A	IP BOARD, COMPLETE *****		C250	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
		< CAPACITOR >		C252	1-126-960-11	ELECT	1uF 20% 50V
C601	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C253	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C603	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C254	1-126-767-11	ELECT	1000uF 20% 16V
C604	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C255	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C605	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C256	1-100-597-91	CERAMIC CHIP	0.1uF 10% 25V
C607	1-165-492-21	ELECT CHIP	100uF 20% 10V	C257	1-100-597-91	CERAMIC CHIP	0.1uF 10% 25V
		< CONNECTOR >		C258	1-126-960-11	ELECT	1uF 20% 50V
CN600	1-820-701-11	PIN, CONNECTOR 30P (IPod DOCK)		C259	1-104-662-91	ELECT	22uF 20% 25V
CN601	1-784-863-51	CONNECTOR, FFC (LIF (NON-ZIF)) 11P		C260	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
		< DIODE >		C350	1-126-933-11	ELECT	100uF 20% 16V
D600	6-500-848-01	DIODE MC2840-T112-1		C351	1-126-963-11	ELECT	4.7uF 20% 50V
D601	8-719-071-34	DIODE RB521S-30-TE61		C352	1-100-597-91	CERAMIC CHIP	0.1uF 10% 25V
		< TRANSISTOR >		C353	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
Q600	8-729-038-23	TRANSISTOR RT1N141C-TP-1		C355	1-126-943-11	ELECT	2200uF 20% 25V
		< RESISTOR >		C901	1-115-339-11	CERAMIC CHIP	0.1uF 10% 50V
R600	1-218-903-11	METAL CHIP	220K 0.5% 1/10W	C902	1-115-339-11	CERAMIC CHIP	0.1uF 10% 50V
R601	1-216-809-11	METAL CHIP	100 5% 1/10W	C903	1-126-943-11	ELECT	2200uF 20% 25V
R602	1-216-809-11	METAL CHIP	100 5% 1/10W	C904	1-126-972-11	ELECT	1000uF 20% 50V
				C906	1-100-597-91	CERAMIC CHIP	0.1uF 10% 25V
				C907	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
				C908	1-126-923-91	ELECT	220uF 20% 10V
				C910	1-126-964-11	ELECT	10uF 20% 50V
				C914	1-126-925-91	ELECT	470uF 20% 10V
				C915	1-115-339-11	CERAMIC CHIP	0.1uF 10% 50V
				C930	1-165-908-11	CERAMIC CHIP	1uF 10% 10V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	
C940	1-126-964-11	ELECT	10uF	20%	50V			
C5001	1-164-156-11	CERAMIC CHIP	0.1uF		25V	< BAND PASS FILTER >		
C5002	1-164-156-11	CERAMIC CHIP	0.1uF		25V			
C5003	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	FL5001	1-236-711-21	FILTER, BAND PASS
C5004	1-126-960-11	ELECT	1uF	20%	50V	< IC >		
C5006	1-126-963-11	ELECT	4.7uF	20%	50V	IC350	6-706-641-01	IC LA4631-E
C5007	1-104-662-91	ELECT	22uF	20%	25V	IC901	6-713-032-01	IC KIA7809API-U/PF
C5008	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	IC5001	6-714-822-01	IC LV23401V-TLM-H
C5010	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	IC5002	6-708-918-01	IC PT2579SN (AEP, UK)
C5011	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	< JACK >		
C5012	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	J350	1-815-629-21	JACK (PHONES)
C5013	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	J351	1-780-314-11	TERMINAL BOARD (SPEAKERS)
C5014	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	< JUMPER RESISTOR >		
C5015	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	JC990	1-216-864-11	SHORT CHIP
C5016	1-164-156-11	CERAMIC CHIP	0.1uF		25V	JR101	1-216-864-11	SHORT CHIP
C5017	1-104-662-91	ELECT	22uF	20%	25V	JR102	1-216-864-11	SHORT CHIP
C5018	1-162-923-11	CERAMIC CHIP	47PF	5%	50V			
C5019	1-162-925-11	CERAMIC CHIP	68PF	5%	50V			
C5020	1-165-908-11	CERAMIC CHIP	1uF	10%	10V			< COIL >
C5021	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	L351	1-469-128-21	FERRITE, EMI (SMD) (1608)
C5022	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	L5001	1-457-757-11	COIL, AM ANTENNA
C5023	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	L5002	1-481-550-21	INDUCTOR
C5024	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	L5003	1-481-550-21	INDUCTOR
C5025	1-164-315-11	CERAMIC CHIP	470PF	5%	50V			< TRANSISTOR >
C5026	1-104-658-91	ELECT	100uF	20%	10V	Q150	8-729-620-07	TRANSISTOR
		< CONNECTOR >				Q250	8-729-620-07	TRANSISTOR
CN901	1-819-134-11	PIN, CONNECTOR	6P			Q902	6-551-696-01	TRANSISTOR
CN902	1-819-131-11	PIN, CONNECTOR	3P			Q903	8-729-620-07	TRANSISTOR
CN904	1-819-131-11	PIN, CONNECTOR	3P			Q909	6-550-889-01	TRANSISTOR
CN911	1-784-784-11	CONNECTOR, FFC	23P (AEP, UK)			Q909	8-729-620-07	TRANSISTOR
CN912	1-568-838-11	CONNECTOR, FFC	21P (EXCEPT AEP, UK)			Q910	8-729-620-07	TRANSISTOR
CN913	1-819-130-11	PIN, CONNECTOR	2P			Q931	8-729-620-07	TRANSISTOR
CN914	1-819-130-11	PIN, CONNECTOR	2P			Q932	6-551-696-01	TRANSISTOR
* CN5001	1-506-680-11	PLUG, CONNECTOR (2.5mm)	3P			Q960	8-729-620-07	TRANSISTOR
			(ANTENNA FM/AM)			Q5002	8-729-620-07	TRANSISTOR
		< DIODE >				Q5003	8-729-620-07	TRANSISTOR
D902	6-501-569-01	DIODE	1N5401-C352					< RESISTOR >
D903	6-501-569-01	DIODE	1N5401-C352			R150	1-216-837-11	METAL CHIP
D905	6-502-411-01	DIODE	RL202-B322-1			R151	1-216-837-11	METAL CHIP
D906	6-502-411-01	DIODE	RL202-B322-1			R152	1-216-809-11	METAL CHIP
D907	6-501-582-01	DIODE	1N4002-A2			R153	1-216-832-11	METAL CHIP
D910	6-502-972-01	DIODE	DZ2J09100L			R155	1-216-813-11	METAL CHIP
D913	6-503-025-01	DIODE	DZ2J12000L			R156	1-216-815-11	METAL CHIP
D914	6-502-972-01	DIODE	DZ2J09100L			R158	1-216-843-11	METAL CHIP
D920	6-502-961-01	DIODE	DA2J10100L			R159	1-216-797-11	METAL CHIP
D930	6-502-961-01	DIODE	DA2J10100L			R160	1-216-817-11	METAL CHIP
D931	6-503-033-01	DIODE	DZ2J20000L			R161	1-216-833-11	METAL CHIP
D5001	6-500-848-01	DIODE	MC2840-T112-1			R162	1-216-817-11	METAL CHIP
D5002	6-500-848-01	DIODE	MC2840-T112-1			R250	1-216-837-11	METAL CHIP
		< EARTH TERMINAL >				R251	1-216-837-11	METAL CHIP
* ET900	1-537-738-21	TERMINAL, EARTH				R252	1-216-809-11	METAL CHIP
						R253	1-216-832-11	METAL CHIP
						R255	1-216-813-11	METAL CHIP
						R256	1-216-815-11	METAL CHIP
						R258	1-216-843-11	METAL CHIP
						R259	1-216-797-11	METAL CHIP

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R260	1-216-817-11	METAL CHIP	470 5%	1/10W	X5002	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz) (AEP, UK)
R261	1-216-833-11	METAL CHIP	10K 5%	1/10W	*****		
R262	1-216-817-11	METAL CHIP	470 5%	1/10W	A-1749-746-A	PANEL BOARD, COMPLETE (US, CND)	
R365	1-216-829-11	METAL CHIP	4.7K 5%	1/10W	A-1749-747-A	PANEL BOARD, COMPLETE (AUS)	
R900	1-216-833-11	METAL CHIP	10K 5%	1/10W	A-1749-748-A	PANEL BOARD, COMPLETE (SP, TW, TH)	
R901	1-216-833-11	METAL CHIP	10K 5%	1/10W	A-1749-749-A	PANEL BOARD, COMPLETE (AEP)	
R902	1-216-841-11	METAL CHIP	47K 5%	1/10W	A-1749-750-A	PANEL BOARD, COMPLETE (E51, MX)	
R914	1-216-821-11	METAL CHIP	1K 5%	1/10W	A-1765-489-A	PANEL BOARD, COMPLETE (KR)	
R916	1-216-825-11	METAL CHIP	2.2K 5%	1/10W	A-1765-490-A	PANEL BOARD, COMPLETE (UK)	
R917	1-216-825-11	METAL CHIP	2.2K 5%	1/10W	A-1771-584-A	PANEL BOARD, COMPLETE (E2)	
R918	1-216-825-11	METAL CHIP	2.2K 5%	1/10W	*****		
R919	1-216-833-11	METAL CHIP	10K 5%	1/10W	2-636-545-01	SHEET (LCD)	
R920	1-216-823-11	METAL CHIP	1.5K 5%	1/10W	4-176-447-01	HOLDER, LCD	
R921	1-218-867-11	METAL CHIP	6.8K 0.5%	1/10W	4-176-448-01	ILLUMINATOR, LCD	
R927	1-216-821-11	METAL CHIP	1K 5%	1/10W	< CAPACITOR >		
R928	1-216-821-11	METAL CHIP	1K 5%	1/10W	C101	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
R930	1-216-821-11	METAL CHIP	1K 5%	1/10W	C102	1-115-871-11	ELECT 1uF 20% 50V
R931	1-216-805-11	METAL CHIP	47 5%	1/10W	C104	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
R932	1-218-864-11	METAL CHIP	5.1K 0.5%	1/10W	C106	1-115-871-11	ELECT 1uF 20% 50V
R933	1-218-863-11	METAL CHIP	4.7K 0.5%	1/10W	C107	1-164-173-11	CERAMIC CHIP 0.0039uF 10% 50V
R934	1-218-863-11	METAL CHIP	4.7K 0.5%	1/10W	C109	1-100-597-91	CERAMIC CHIP 0.1uF 10% 25V
R935	1-218-863-11	METAL CHIP	4.7K 0.5%	1/10W	C110	1-100-597-91	CERAMIC CHIP 0.1uF 10% 25V
R936	1-216-829-11	METAL CHIP	4.7K 5%	1/10W	C115	1-115-871-11	ELECT 1uF 20% 50V
R937	1-216-833-11	METAL CHIP	10K 5%	1/10W	C120	1-164-315-11	CERAMIC CHIP 470PF 5% 50V
R938	1-216-845-11	METAL CHIP	100K 5%	1/10W	C132	1-115-871-11	ELECT 1uF 20% 50V
R940	1-216-833-11	METAL CHIP	10K 5%	1/10W	C133	1-115-871-11	ELECT 1uF 20% 50V
R942	1-216-864-11	SHORT CHIP	0		C201	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
R944	1-216-821-11	METAL CHIP	1K 5%	1/10W	C202	1-115-871-11	ELECT 1uF 20% 50V
R5001	1-216-864-11	SHORT CHIP	0		C204	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
R5002	1-216-837-11	METAL CHIP	22K 5%	1/10W	C206	1-115-871-11	ELECT 1uF 20% 50V
R5005	1-216-833-11	METAL CHIP	10K 5%	1/10W	C207	1-164-173-11	CERAMIC CHIP 0.0039uF 10% 50V
R5006	1-216-809-11	METAL CHIP	100 5%	1/10W	C209	1-100-597-91	CERAMIC CHIP 0.1uF 10% 25V
R5007	1-216-809-11	METAL CHIP	100 5%	1/10W	C210	1-100-597-91	CERAMIC CHIP 0.1uF 10% 25V
R5008	1-216-809-11	METAL CHIP	100 5%	1/10W	C215	1-115-871-11	ELECT 1uF 20% 50V
R5009	1-216-809-11	METAL CHIP	100 5%	1/10W	C220	1-164-315-11	CERAMIC CHIP 470PF 5% 50V
R5010	1-216-809-11	METAL CHIP	100 5%	1/10W	C232	1-115-871-11	ELECT 1uF 20% 50V
R5011	1-216-848-11	METAL CHIP	180K 5%	1/10W	C233	1-115-871-11	ELECT 1uF 20% 50V
R5012	1-216-843-11	METAL CHIP	68K 5%	1/10W	C301	1-126-785-11	ELECT 47uF 20% 10V
R5013	1-216-843-11	METAL CHIP	68K 5%	1/10W	C302	1-100-597-91	CERAMIC CHIP 0.1uF 10% 25V
R5014	1-216-837-11	METAL CHIP	22K 5%	1/10W	C303	1-100-597-91	CERAMIC CHIP 0.1uF 10% 25V
R5015	1-216-833-11	METAL CHIP	10K 5%	1/10W	C304	1-126-176-11	ELECT 220uF 20% 10V
R5018	1-216-837-11	METAL CHIP	22K 5%	1/10W	C307	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V
R5020	1-216-825-11	METAL CHIP	2.2K 5%	1/10W	C308	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
R5022	1-216-839-11	METAL CHIP	33K 5%	1/10W	C309	1-162-927-11	CERAMIC CHIP 100PF 5% 50V
R5023	1-216-813-11	METAL CHIP	220 5%	1/10W	C310	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V
R5024	1-216-837-11	METAL CHIP	22K 5%	1/10W	C311	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
R5025	1-216-833-11	METAL CHIP	10K 5%	1/10W	C312	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V
R5026	1-216-833-11	METAL CHIP	10K 5%	1/10W	C313	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V
		< VIBRATOR >			C314	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
X5001	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)			C315	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V
					C330	1-126-791-11	ELECT 10uF 20% 35V
					C331	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V
					C332	1-126-785-11	ELECT 47uF 20% 10V
					C333	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V
					C800	1-126-916-11	ELECT 1000uF 20% 6.3V
					C801	1-162-918-11	CERAMIC CHIP 18PF 5% 50V
					C802	1-162-919-11	CERAMIC CHIP 22PF 5% 50V
					C803	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V
					C804	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V





Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C805	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	IC801	A-1754-843-A	IC LC87F7DJ2BVU-QIP-E (for SERVICE) (AEP, E2, E51, MX)	
C806	1-107-726-91	CERAMIC CHIP 0.01uF 10%	16V	IC802	6-702-749-01	IC S-80928CNNB-G8YT2G	
C809	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	IC860	6-600-768-01	IC PNA4823M03S0	
C810	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	IC970	6-703-639-01	IC TK11140CSCL-G	
C811	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	IC980	6-703-639-01	IC TK11140CSCL-G	
C812	1-162-927-11	CERAMIC CHIP 100PF 5%	50V	IC981	6-715-266-01	IC BD8410FPS-E2	
C813	1-162-927-11	CERAMIC CHIP 100PF 5%	50V			< JACK >	
C814	1-164-315-11	CERAMIC CHIP 470PF 5%	50V	J320	1-815-603-11	JACK (AUDIO IN)	
C815	1-162-919-11	CERAMIC CHIP 22PF 5%	50V (AEP, E2, E51, MX)			< JUMPER RESISTOR >	
C815	1-162-927-11	CERAMIC CHIP 100PF 5%	50V (US, CND, UK, SP, TW, KR, TH, AUS)	JR701	1-216-864-11	SHORT CHIP	0
C850	1-107-726-91	CERAMIC CHIP 0.01uF 10%	16V	JR702	1-216-864-11	SHORT CHIP	0
C851	1-107-726-91	CERAMIC CHIP 0.01uF 10%	16V	JR703	1-216-864-11	SHORT CHIP	0
C860	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	JR704	1-216-864-11	SHORT CHIP	0
C970	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V	JR705	1-216-864-11	SHORT CHIP	0
C971	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	JR706	1-216-864-11	SHORT CHIP	0
C973	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	JR707	1-216-864-11	SHORT CHIP	0
C980	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	JR708	1-216-864-11	SHORT CHIP	0
C981	1-126-382-11	ELECT 100uF 20%	16V	JR709	1-216-864-11	SHORT CHIP	0
C982	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	JR710	1-216-864-11	SHORT CHIP	0
C983	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	JR711	1-216-864-11	SHORT CHIP	0
C984	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	JR712	1-216-864-11	SHORT CHIP	0
C985	1-165-908-11	CERAMIC CHIP 1uF 10%	10V			< COIL >	
C987	1-125-889-11	CERAMIC CHIP 2.2uF 10%	10V	L321	1-410-509-11	INDUCTOR 10uH	
C988	1-165-908-11	CERAMIC CHIP 1uF 10%	10V			< LIQUID CRYSTAL DISPLAY >	
C989	1-126-176-11	ELECT 220uF 20%	10V	LCD801	1-811-122-11	DISPLAY PANEL, LIQUID CRYSTAL	
C991	1-119-941-91	ELECT 470uF 20%	6.3V			< TRANSISTOR >	
C992	1-119-941-91	ELECT 470uF 20%	6.3V	Q301	8-729-027-50	TRANSISTOR DTC123JKA-T146	
C993	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	Q302	8-729-027-26	TRANSISTOR DTA114YKA-T146	
C994	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	Q801	6-551-473-01	TRANSISTOR RT1P136C-TP-1	
		< CONNECTOR >		Q802	8-729-038-28	TRANSISTOR RT1N441C-TP-1	
CN801	1-784-784-11	CONNECTOR, FFC 23P (AEP, UK)		Q860	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
CN802	1-568-838-11	CONNECTOR, FFC 21P (EXCEPT AEP, UK)		Q981	8-729-036-86	TRANSISTOR KTC3203Y-AT	
CN820	1-779-548-21	CONNECTOR, FFC (LIF (NON-ZIF)) 11P		Q982	8-729-028-54	TRANSISTOR KTC3205	
CN830	1-779-283-11	CONNECTOR, FFC (LIF (NON-ZIF)) 15P (US, CND, UK, SP, TW, KR, TH, AUS)		Q983	6-551-456-01	FET RTR020P02TL (AEP, E2, E51, MX)	
CN831	1-779-291-11	CONNECTOR, FFC (LIF (NON-ZIF)) 23P (AEP, E2, E51, MX)		Q984	6-551-456-01	FET RTR020P02TL (AEP, E2, E51, MX)	
CN890	1-779-544-21	CONNECTOR, FFC (LIF (NON-ZIF)) 7P		Q985	8-729-038-23	TRANSISTOR RT1N141C-TP-1 (AEP, E2, E51, MX)	
		< DIODE >		Q986	8-729-038-23	TRANSISTOR RT1N141C-TP-1 (AEP, E2, E51, MX)	
D801	6-500-334-01	DIODE MC2836-T112-1		Q987	8-729-027-26	TRANSISTOR DTA114YKA-T146	
D802	6-500-334-01	DIODE MC2836-T112-1		Q988	8-729-027-26	TRANSISTOR DTA114YKA-T146	
D860	6-502-498-01	LED SELU2B10A-SLF62FGH (LCD BACK LIGHT)		Q989	8-729-027-46	TRANSISTOR DTC114YKA-T146	
D980	6-501-582-01	DIODE 1N4002-A2				< RESISTOR >	
D981	8-719-991-33	DIODE 1SS133T-77 (KR)		R102	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
D982	8-719-991-33	DIODE 1SS133T-77 (KR)		R103	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
		< FERRITE BEAD >		R104	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
FB320	1-469-128-21	FERRITE, EMI (SMD) (1608)		R107	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
		< IC >		R107	1-216-825-11	METAL CHIP 2.2K 5% 1/10W (E2)	
IC301	6-713-384-01	IC BD3491FS-SE2		R109	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
IC310	8-759-278-58	IC NJM4558V-TE2				(EXCEPT E2)	
IC330	8-759-278-58	IC NJM4558V-TE2					
IC801	A-1754-842-A	IC LC87F7DC8AU-QIP-E (for SERVICE) (US, CND, UK, SP, TW, KR, TH, AUS)					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R116	1-216-849-11	METAL CHIP	220K 5%	1/10W	R733	1-216-821-11	METAL CHIP 1K 5% 1/10W
R120	1-216-833-11	METAL CHIP	10K 5%	1/10W	R734	1-216-833-11	METAL CHIP 10K 5% 1/10W
R121	1-216-841-11	METAL CHIP	47K 5%	1/10W	R735	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
R131	1-216-837-11	METAL CHIP	22K 5%	1/10W	R736	1-216-821-11	METAL CHIP 1K 5% 1/10W
R132	1-216-837-11	METAL CHIP	22K 5%	1/10W	R737	1-216-809-11	METAL CHIP 100 5% 1/10W
R133	1-216-837-11	METAL CHIP	22K 5%	1/10W	R738	1-216-809-11	METAL CHIP 100 5% 1/10W
R134	1-216-837-11	METAL CHIP	22K 5%	1/10W	R739	1-216-821-11	METAL CHIP 1K 5% 1/10W
R135	1-216-849-11	METAL CHIP	220K 5%	1/10W	R740	1-216-809-11	METAL CHIP 100 5% 1/10W
R202	1-216-825-11	METAL CHIP	2.2K 5%	1/10W	R741	1-216-809-11	METAL CHIP 100 5% 1/10W
R203	1-216-825-11	METAL CHIP	2.2K 5%	1/10W	R742	1-216-833-11	METAL CHIP 10K 5% 1/10W
R204	1-216-825-11	METAL CHIP	2.2K 5%	1/10W			(AEP, UK)
R207	1-216-823-11	METAL CHIP	1.5K 5%	1/10W			(AEP, UK)
R207	1-216-825-11	METAL CHIP	2.2K 5%	1/10W (E2) (EXCEPT E2)	R744	1-216-833-11	METAL CHIP 10K 5% 1/10W
R209	1-216-829-11	METAL CHIP	4.7K 5%	1/10W	R745	1-216-821-11	METAL CHIP 1K 5% 1/10W
R216	1-216-849-11	METAL CHIP	220K 5%	1/10W	R788	1-216-821-11	METAL CHIP 1K 5% 1/10W
R220	1-216-833-11	METAL CHIP	10K 5%	1/10W	R791	1-216-809-11	METAL CHIP 100 5% 1/10W
R221	1-216-841-11	METAL CHIP	47K 5%	1/10W	R792	1-216-809-11	METAL CHIP 100 5% 1/10W
R231	1-216-837-11	METAL CHIP	22K 5%	1/10W	R793	1-216-809-11	METAL CHIP 100 5% 1/10W
R232	1-216-837-11	METAL CHIP	22K 5%	1/10W			(AEP, E2, E51, MX)
R233	1-216-837-11	METAL CHIP	22K 5%	1/10W	R794	1-216-809-11	METAL CHIP 100 5% 1/10W
R234	1-216-837-11	METAL CHIP	22K 5%	1/10W			(AEP, E2, E51, MX)
R235	1-216-849-11	METAL CHIP	220K 5%	1/10W	R795	1-216-809-11	METAL CHIP 100 5% 1/10W
R301	1-216-809-11	METAL CHIP	100 5%	1/10W	R796	1-216-809-11	METAL CHIP 100 5% 1/10W
R302	1-216-809-11	METAL CHIP	100 5%	1/10W	R797	1-216-809-11	METAL CHIP 100 5% 1/10W
R304	1-216-821-11	METAL CHIP	1K 5%	1/10W	R798	1-216-821-11	METAL CHIP 1K 5% 1/10W
R305	1-216-821-11	METAL CHIP	1K 5%	1/10W	R799	1-216-809-11	METAL CHIP 100 5% 1/10W
R306	1-216-845-11	METAL CHIP	100K 5%	1/10W			(AEP, UK)
R307	1-216-833-11	METAL CHIP	10K 5%	1/10W	R801	1-216-833-11	METAL CHIP 10K 5% 1/10W
R308	1-216-833-11	METAL CHIP	10K 5%	1/10W	R802	1-216-833-11	METAL CHIP 10K 5% 1/10W
R309	1-216-845-11	METAL CHIP	100K 5%	1/10W	R806	1-216-845-11	METAL CHIP 100K 5% 1/10W
R310	1-216-853-11	METAL CHIP	470K 5%	1/10W	R808	1-216-864-11	SHORT CHIP 0
R311	1-216-833-11	METAL CHIP	10K 5%	1/10W	R809	1-216-849-11	METAL CHIP 220K 5% 1/10W
R312	1-216-833-11	METAL CHIP	10K 5%	1/10W	R810	1-216-833-11	METAL CHIP 10K 5% 1/10W
R330	1-216-832-11	METAL CHIP	8.2K 5%	1/10W	R811	1-216-841-11	METAL CHIP 47K 5% 1/10W
R331	1-216-833-11	METAL CHIP	10K 5%	1/10W			(EXCEPT AEP, UK)
R700	1-216-821-11	METAL CHIP	1K 5%	1/10W	R820	1-216-833-11	METAL CHIP 10K 5% 1/10W
R701	1-216-821-11	METAL CHIP	1K 5%	1/10W	R821	1-216-821-11	METAL CHIP 1K 5% 1/10W
R702	1-216-821-11	METAL CHIP	1K 5%	1/10W	R822	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
R703	1-216-809-11	METAL CHIP	100 5%	1/10W	R823	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
R704	1-216-809-11	METAL CHIP	100 5%	1/10W	R824	1-216-829-11	METAL CHIP 4.7K 5% 1/10W
R705	1-216-809-11	METAL CHIP	100 5%	1/10W	R825	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
R706	1-216-821-11	METAL CHIP	1K 5%	1/10W (AEP, E2, E51, MX)	R826	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
R707	1-216-809-11	METAL CHIP	100 5%	1/10W (AEP, E2, E51, MX)	R827	1-216-833-11	METAL CHIP 10K 5% 1/10W
R708	1-216-821-11	METAL CHIP	1K 5%	1/10W (AEP, E2, E51, MX)	R830	1-216-833-11	METAL CHIP 10K 5% 1/10W
R709	1-216-821-11	METAL CHIP	1K 5%	1/10W	R831	1-216-821-11	METAL CHIP 1K 5% 1/10W
R710	1-216-821-11	METAL CHIP	1K 5%	1/10W	R832	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
R711	1-216-809-11	METAL CHIP	100 5%	1/10W	R833	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
R719	1-216-821-11	METAL CHIP	1K 5%	1/10W	R840	1-216-833-11	METAL CHIP 10K 5% 1/10W
R720	1-216-821-11	METAL CHIP	1K 5%	1/10W	R850	1-216-833-11	METAL CHIP 10K 5% 1/10W
R722	1-216-821-11	METAL CHIP	1K 5%	1/10W	R851	1-216-833-11	METAL CHIP 10K 5% 1/10W
R723	1-216-809-11	METAL CHIP	100 5%	1/10W	R852	1-216-833-11	METAL CHIP 10K 5% 1/10W
R724	1-216-809-11	METAL CHIP	100 5%	1/10W			(AEP, E2, E51, MX)
R728	1-216-821-11	METAL CHIP	1K 5%	1/10W	R853	1-216-833-11	METAL CHIP 10K 5% 1/10W
R729	1-216-821-11	METAL CHIP	1K 5%	1/10W			(AEP, E2, E51, MX)
R730	1-216-821-11	METAL CHIP	1K 5%	1/10W	R860	1-216-805-11	METAL CHIP 47 5% 1/10W
R732	1-216-821-11	METAL CHIP	1K 5%	1/10W	R865	1-216-809-11	METAL CHIP 100 5% 1/10W
					R866	1-216-809-11	METAL CHIP 100 5% 1/10W
					R870	1-216-821-11	METAL CHIP 1K 5% 1/10W
					R871	1-216-829-11	METAL CHIP 4.7K 5% 1/10W
					R872	1-216-829-11	METAL CHIP 4.7K 5% 1/10W
					R873	1-216-829-11	METAL CHIP 4.7K 5% 1/10W
					R880	1-216-833-11	METAL CHIP 10K 5% 1/10W

HCD-FX300i

Ver. 1.2

PANEL POWER-TR PT PT-SW

Ref. No.	Part No.	Description	Remark
R885	1-216-833-11	METAL CHIP 10K 5%	1/10W
R886	1-216-845-11	METAL CHIP 100K 5%	1/10W
R887	1-216-845-11	METAL CHIP 100K 5%	1/10W
R888	1-216-845-11	METAL CHIP 100K 5%	1/10W
R889	1-216-841-11	METAL CHIP 47K 5%	1/10W (EXCEPT AEP, UK)
R891	1-216-829-11	METAL CHIP 4.7K 5%	1/10W (E2, E51, MX)
R891	1-216-833-11	METAL CHIP 10K 5%	1/10W (US, CND, AEP, UK, SP, TW, TH, AUS)
R891	1-216-839-11	METAL CHIP 33K 5%	1/10W (KR)
R892	1-216-821-11	METAL CHIP 1K 5%	1/10W (AEP, UK)
R892	1-216-827-11	METAL CHIP 3.3K 5%	1/10W (SP, TW, TH)
R892	1-216-833-11	METAL CHIP 10K 5%	1/10W (AUS)
R892	1-216-841-11	METAL CHIP 47K 5%	1/10W (E2, E51, MX)
R892	1-216-843-11	METAL CHIP 68K 5%	1/10W (KR)
R893	1-216-845-11	METAL CHIP 100K 5%	1/10W
R894	1-216-845-11	METAL CHIP 100K 5%	1/10W (AEP, E2, E51, MX)
R895	1-216-839-11	METAL CHIP 33K 5%	1/10W
R896	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R897	1-216-847-11	METAL CHIP 150K 5%	1/10W
R980	1-216-864-11	SHORT CHIP 0	(US, CND, UK, SP, TW, KR, TH, AUS)
R982	1-216-864-11	SHORT CHIP 0	(AEP, E2, E51, MX)
R986	1-216-809-11	METAL CHIP 100 5%	1/10W
R988	1-216-809-11	METAL CHIP 100 5%	1/10W
R989	1-216-821-11	METAL CHIP 1K 5%	1/10W
R990	1-218-863-11	METAL CHIP 4.7K 0.5%	1/10W
R992	1-216-864-11	SHORT CHIP 0	(US, CND, UK, SP, TW, KR, TH, AUS)
< SWITCH/ROTARY ENCODER >			
S820	1-771-410-21	SWITCH, TACTILE (- TUNE, I<<< <<<)	
S821	1-771-410-21	SWITCH, TACTILE (TUNE +, >>> >>>)	
S822	1-771-410-21	SWITCH, TACTILE (ENTER)	
S823	1-771-410-21	SWITCH, TACTILE (- )	
S824	1-771-410-21	SWITCH, TACTILE () +)	
S830	1-771-410-21	SWITCH, TACTILE (FUNCTION)	
S831	1-771-410-21	SWITCH, TACTILE (DSGX)	
S832	1-771-410-21	SWITCH, TACTILE ()	
S833	1-771-410-21	SWITCH, TACTILE (CANCEL, )	
S840	1-771-410-21	SWITCH, TACTILE (I/⏻)	
S850	1-480-469-11	ENCODER, ROTARY (VOLUME)	
< VIBRATOR >			
X801	1-814-067-11	OSCILLATOR, CRYSTAL (32.768kHz)	
X802	1-814-399-11	VIBRATOR, CERAMIC (15MHz)	

POWER-TR BOARD *****			
< TRANSISTOR >			
Q915	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
Q940	8-729-024-93	TRANSISTOR 2SB1565E	

Ref. No.	Part No.	Description	Remark
< RESISTOR >			
R915	1-216-833-11	METAL CHIP 10K 5%	1/10W
R957	1-216-833-11	METAL CHIP 10K 5%	1/10W

PT BOARD (EXCEPT E2, E51) *****			
< CAPACITOR >			
△ C001	1-113-924-91	CERAMIC 0.0047uF 20%	250V (AEP)
C905	1-126-942-61	ELECT 1000uF 20%	25V
< CONNECTOR >			
CN004	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
< DIODE >			
D001	6-502-961-01	DIODE DA2J10100L	
D925	6-501-582-01	DIODE 1N4002-A2	
D926	6-501-582-01	DIODE 1N4002-A2	
D927	6-501-582-01	DIODE 1N4002-A2	
D928	6-501-582-01	DIODE 1N4002-A2	
< FUSE HOLDER >			
FH001	1-533-217-31	FUSE HOLDER (US, CND, MX, TW)	
FH002	1-533-217-31	FUSE HOLDER (US, CND, MX, TW)	
FH003	1-533-217-31	FUSE HOLDER (AEP, UK, SP, KR, TH, AUS)	
FH004	1-533-217-31	FUSE HOLDER (AEP, UK, SP, KR, TH, AUS)	
< LINE FILTER >			
△ LF001	1-443-993-11	TRANSFORMER, LINE FILTER (LFT) (AEP)	
< RELAY >			
△ RY001	1-755-334-11	RELAY, AC POWER	
< TRANSFORMER >			
△ T002	1-443-912-11	TRANSFORMER, POWER (AEP, UK, KR, TH)	
△ T003	1-445-563-11	TRANSFORMER, POWER (US, CND, MX)	
△ T004	1-445-105-11	TRANSFORMER, POWER (SP, TW, AUS)	

PT-SW BOARD (E2, E51) *****			
< CAPACITOR >			
C905	1-126-942-61	ELECT 1000uF 20%	25V
< CONNECTOR >			
CN004	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
< DIODE >			
D001	6-502-961-01	DIODE DA2J10100L	
D925	6-501-582-01	DIODE 1N4002-A2	
D926	6-501-582-01	DIODE 1N4002-A2	
D927	6-501-582-01	DIODE 1N4002-A2	
D928	6-501-582-01	DIODE 1N4002-A2	
< FUSE HOLDER >			
FH001	1-533-217-31	FUSE HOLDER	
FH002	1-533-217-31	FUSE HOLDER	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
FH003	1-533-217-31	FUSE HOLDER		D101	6-501-579-01	DIODE MC2837	
FH004	1-533-217-31	FUSE HOLDER		D102	6-501-579-01	DIODE MC2837	
		< RELAY >				< IC >	
△ RY002	1-755-496-11	RELAY		IC101	(Not supplied)	IC LC87F1JJ2AU-SQFP-H	
		< SWITCH >				< COIL >	
△ S001	1-786-404-11	SELECTOR, VOLTAGE (SWS-2201) (VOLTAGE SELECTOR)		L101	1-457-223-11	COMMON MODE CHOKE COIL	
		< TRANSFORMER >				< RESISTOR >	
△ T004	1-445-105-11	TRANSFORMER, POWER		R103	1-216-809-11	METAL CHIP 100 5% 1/10W	
*****				R104	1-216-809-11	METAL CHIP 100 5% 1/10W	
		REG BOARD		R105	1-216-809-11	METAL CHIP 100 5% 1/10W	
		*****		R106	1-216-809-11	METAL CHIP 100 5% 1/10W	
		< TRANSISTOR >		R107	1-216-857-11	METAL CHIP 1M 5% 1/10W	
Q930	8-729-024-93	TRANSISTOR 2SB1565E		R108	1-216-817-11	METAL CHIP 470 5% 1/10W	
Q934	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF		R109	1-216-809-11	METAL CHIP 100 5% 1/10W	
		< RESISTOR >		R110	1-216-809-11	METAL CHIP 100 5% 1/10W	
R947	1-216-833-11	METAL CHIP 10K 5% 1/10W		R111	1-216-809-11	METAL CHIP 100 5% 1/10W	
R948	1-216-833-11	METAL CHIP 10K 5% 1/10W		R112	1-216-809-11	METAL CHIP 100 5% 1/10W	
*****				R113	1-216-809-11	METAL CHIP 100 5% 1/10W	
A-1754-831-A		USB BOARD, COMPLETE (AEP, E2, E51, MX) *****		R114	1-216-845-11	METAL CHIP 100K 5% 1/10W	
		< CAPACITOR >		R115	1-216-809-11	METAL CHIP 100 5% 1/10W	
C101	1-165-492-21	ELECT CHIP 100uF 20% 10V		R116	1-216-845-11	METAL CHIP 100K 5% 1/10W	
C102	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R117	1-216-809-11	METAL CHIP 100 5% 1/10W	
C103	1-162-920-11	CERAMIC CHIP 27PF 5% 50V		R118	1-216-845-11	METAL CHIP 100K 5% 1/10W	
C104	1-162-920-11	CERAMIC CHIP 27PF 5% 50V		R119	1-216-864-11	SHORT CHIP 0	
C105	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R120	1-216-803-11	METAL CHIP 33 5% 1/10W	
C106	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R121	1-216-803-11	METAL CHIP 33 5% 1/10W	
C107	1-126-961-11	ELECT 2.2uF 20% 50V		R122	1-216-835-11	METAL CHIP 15K 5% 1/10W	
C108	1-165-884-11	CERAMIC CHIP 2.2uF 10% 6.3V		R123	1-216-835-11	METAL CHIP 15K 5% 1/10W	
C110	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R131	1-216-809-11	METAL CHIP 100 5% 1/10W	
C112	1-104-658-91	ELECT 100uF 20% 10V		R132	1-216-809-11	METAL CHIP 100 5% 1/10W	
C113	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V		R133	1-216-809-11	METAL CHIP 100 5% 1/10W	
C114	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V		R134	1-216-809-11	METAL CHIP 100 5% 1/10W	
C115	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R135	1-216-833-11	METAL CHIP 10K 5% 1/10W	
C118	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R136	1-216-833-11	METAL CHIP 10K 5% 1/10W	
C119	1-162-919-11	CERAMIC CHIP 22PF 5% 50V		R137	1-216-833-11	METAL CHIP 10K 5% 1/10W	
C120	1-162-919-11	CERAMIC CHIP 22PF 5% 50V		R138	1-216-295-91	SHORT CHIP 0	
C121	1-162-919-11	CERAMIC CHIP 22PF 5% 50V		R139	1-216-295-91	SHORT CHIP 0	
C122	1-164-230-11	CERAMIC CHIP 220PF 5% 50V		R140	1-216-295-91	SHORT CHIP 0	
C126	1-162-927-11	CERAMIC CHIP 100PF 5% 50V		R141	1-216-864-11	SHORT CHIP 0	
C127	1-164-230-11	CERAMIC CHIP 220PF 5% 50V		R143	1-216-833-11	METAL CHIP 10K 5% 1/10W	
C128	1-162-927-11	CERAMIC CHIP 100PF 5% 50V				< VIBRATOR >	
		< CONNECTOR >		X101	1-767-654-21	VIBRATOR, CRYSTAL (12MHz)	
CN102	1-784-871-51	CONNECTOR, FFC (LIF (NON-ZIF)) 19P		*****			
CN105	1-822-423-11	CONNECTOR, USB (A) ()					
CN106	1-784-859-51	CONNECTOR, FFC (LIF (NON-ZIF)) 7P					
CN108	1-784-834-51	CONNECTOR, FFC (LIF (NON-ZIF)) 23P					
		< DIODE >					
D100	6-501-579-01	DIODE MC2837					

Note: IC101 cannot exchange with single. When this part is damaged, exchange the entire mounted board.

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS *****	
52	1-834-268-21	WIRE (FLAT TYPE) (16 CORE)	
△ 56	A-1780-028-A	OPTICAL PICK-UP BLOCK (DA11MMVGP) (Including sled motor, spindle motor)	
62	1-452-899-31	MAGNET	
109	1-832-876-21	CABLE, FLEXIBLE FLAT (21 CORE) (EXCEPT AEP, UK)	
109	1-832-886-21	CABLE, FLEXIBLE FLAT (23 CORE) (AEP, UK)	
111	1-832-587-21	CABLE, FLEXIBLE FLAT (15 CORE) (length: 200 mm) (Former) (US, CND, UK, SP, TW, KR, TH, AUS)	
111	1-838-301-21	CABLE, FLEXIBLE FLAT (15 CORE) (length: 185 mm) (New) (US, CND, UK, SP, TW, KR, TH, AUS)	
112	1-832-626-21	CABLE, FLEXIBLE FLAT (23 CORE) (AEP, E2, E51, MX)	
114	1-837-819-21	CABLE, FLEXIBLE FLAT (19 CORE) (AEP, E2, E51, MX)	
116	1-832-566-21	CABLE, FLEXIBLE FLAT (11 CORE)	
154	1-500-868-11	CORE, FERRITE	
△ 155	1-834-288-12	CORD, POWER (TH)	
△ 155	1-834-966-41	POWER-SUPPLY CORD (AEP, E2, E51, SP)	
△ 155	1-835-068-21	CORD, POWER (AUS)	
△ 155	1-837-308-11	CORD, POWER-SUPPLY (US, CND)	
△ 155	1-837-309-21	CORD, POWER (UK)	
△ 155	1-837-311-21	CORD, POWER-SUPPLY (KR)	
△ 155	1-837-344-11	CORD, POWER-SUPPLY (MX)	
△ 155	1-837-345-11	CORD, POWER-SUPPLY (TW)	
△ F001	1-532-467-33	FUSE (T315mA/250V) (US, CND, E2, E51, MX, TW)	
△ F002	1-523-156-31	FUSE (T160mA/250V) (AEP, UK, E2, E51, SP, KR, TH, AUS)	
S001	1-771-853-11	SWITCH, DETECTION (LIMIT)	
SW880	1-692-960-11	SWITCH, PUSH (1 KEY) (CD LID OPEN/CLOSE DETECT)	
△ T001	1-445-858-11	TRANSFORMER, POWER (AEP, UK)	
△ T001	1-445-859-11	TRANSFORMER, POWER (US, CND, MX)	
△ T001	1-445-860-11	TRANSFORMER, POWER (SP, AUS)	
△ T001	1-445-861-11	TRANSFORMER, POWER (KR, TH)	
△ T001	1-445-862-11	TRANSFORMER, POWER (TW)	
△ T001	1-445-863-11	TRANSFORMER, POWER (E2, E51)	

		ACCESSORY *****	
△	1-569-008-33	ADAPTOR, CONVERSION (E2, E51)	

Note: Length has been changed while producing FLEXIBLE FLAT CABLE (15 CORE) (Ref. No. 111). Exchange it for the parts of the same length when replacing FLEXIBLE FLAT CABLE (15 CORE) (US, CND, UK, SP, TW, KR, TH and AUS models only).

MEMO

