

HCD-EH25/EH26

SERVICE MANUAL

Ver. 1.0 2008.05



Photo: HCD-EH26

AEP Model
HCD-EH25/EH26

UK Model

Russian Model

Korean Model
HCD-EH25

- HCD-EH25 is the amplifier, USB, CD player, tape deck and tuner section in CMT-EH25.
- HCD-EH26 is the amplifier, USB, CD player, tape deck and tuner section in CMT-EH26.

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CD Section	Model Name Using Similar Mechanism	NEW
	Base Unit Name	BU-K8BD90-WOD
	Optical Pick-up Name	KSM-213CDP
TAPE Section	Model Name Using Similar Mechanism	HCD-EH10
	Tape Transport Mechanism Type	MF-EH10

SPECIFICATIONS

Amplifier section

European and Russian models:

DIN power output (rated):
4 + 4 watts (4 ohms at 1 kHz, DIN)
Continuous RMS power output
(reference): 5 + 5 watts (4 ohms at
1 kHz, 10% THD)
Music power output (reference):
7 + 7 watts (4 ohms at 1 kHz, 10%
THD)

Other models:

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

Inputs:

AUDIO IN (stereo mini jack):
voltage 800 mV, impedance
47 kilohms
• (USB) port: Type A, maximum
current 500 mA

Outputs:

PHONES (stereo mini jack): accepts
headphones of 8 ohms or more
SPEAKER: accepts impedance of
4 ohms

USB section

Supported bit rate

MP3 (MPEG 1 Audio Layer-3):
32 – 320kbps, VBR

Sampling frequencies

MP3 (MPEG 1 Audio Layer-3):
32/44.1/48 kHz

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

Tape deck section

Recording system: 4-track 2-channel, stereo

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section:

Tuning range:

87.5 – 108.0 MHz (50 kHz step)

Antenna: FM lead antenna

Intermediate frequency: 10.7 MHz

AM tuner section:

Tuning range

Korean model:

531 – 1,602 kHz (with 9 kHz tuning
interval)

530 – 1,610 kHz (with 10 kHz tuning
interval)

Other models:

531 – 1,602 kHz (9 kHz step)

Antenna: AM loop antenna

Intermediate frequency: 450 kHz

General

Power requirements

Korean model: 220 V AC, 60 Hz

Other models: 230 V AC, 50/60 Hz

Power consumption: 27 watts

Dimensions (w/h/d) (excl. speakers):

Approx. 155 × 241 × 224.6 mm

Mass (excl. speakers): Approx. 2.2 kg

Design and specifications are subject to
change without notice.

COMPACT DISC DECK RECEIVER

9-889-152-01

2008E05-1

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Sony Corporation

Audio Business Group

Published by Sony Techno Create Corporation

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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.

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.

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

SAFETY-RELATED COMPONET 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.

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)



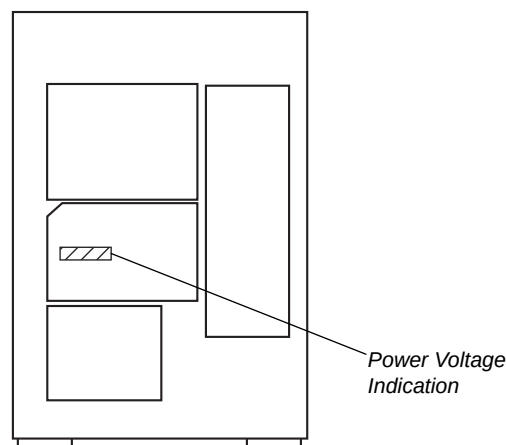
: LEAD FREE MARK

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.

MODEL IDENTIFICATION

– Rear Cabinet –



Model	POWER VOLTAGE INDICATION
AEP, UK and Russian models	AC 230 V, 50/60 Hz
Korean model	AC 220 V, 60 Hz

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 SW750. (push switch type)

The following checking method for the laser diode is operable.

• Method

Emission of the laser diode is visually checked.

- Open the upper lid.
- Push the SW750 as shown in Fig.1.
Note: Do not push the detection lever strongly, or it may be bent or damaged.
- 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.

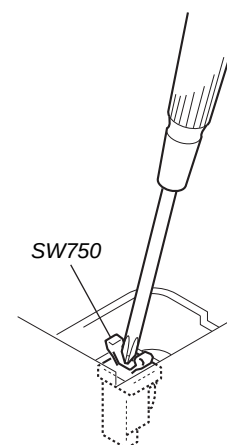
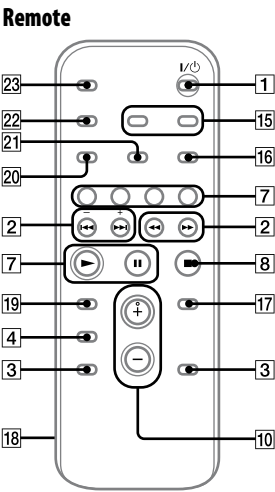
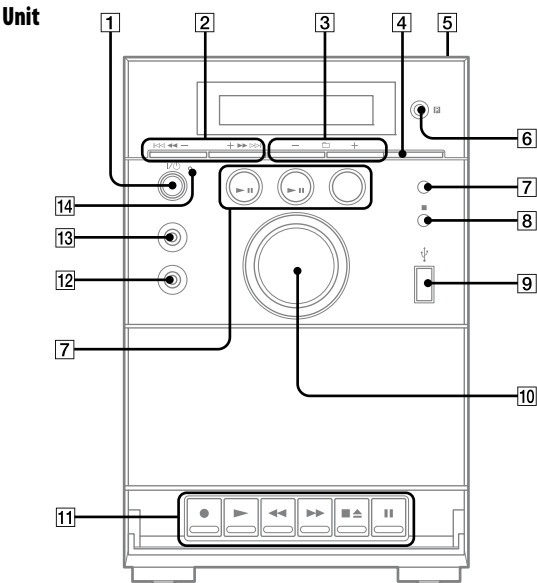


Fig.1 Method to push the SW750

Guide to parts and controls

This manual mainly explains operations using the remote, but the same operations can also be performed using the buttons on the unit having the same or similar names.



- 6**
Remote sensor

7
Playback buttons and function buttons
Unit: USB ►|| (play/pause) button
Press to select the USB function.
Press to start or pause playback of an optional USB device.
Remote: USB button
Press to select the USB function.

Unit: CD ►|| (play/pause) button
Press to select the CD function.
Press to start or pause playback of a disc.
Remote: CD button
Press to select the CD function.

Remote: ► (play) button, || (pause) button
Press to start or pause playback.

TUNER/BAND button
Press to select the TUNER function.
Press to select FM or AM reception mode.

FUNCTION button
Press to select the function.

8
■ (stop) button
Press to stop playback.

9
↔ (USB) port
Connect to an optional USB device.

10
Unit: VOLUME control
Remote: VOLUME +/- button
Turn or press to adjust the volume.

11
● (record) button, ► (play) button, ◀▶ (rewind/fast forward) button, ■▲ (stop/eject) button, || (pause) button
Press to operate the tape functions.

12
PHONES jack
Connect the headphones.
- 13**
AUDIO IN jack
Connect to an optional audio component.

14
STANDBY indicator
Lights up when the system is turned off.

15
CLOCK/TIMER SELECT button
CLOCK/TIMER SET button
Press to set the clock and the Play Timer.

16
REPEAT/FM MODE button
Press to listen to a disc or USB device repeatedly. Or press to listen to a single track/file or all tracks/file in a folder (for USB devices only) repeatedly.
Press to select the FM reception mode (monaural or stereo).

17
ENTER button
Press to enter the settings.

18
Battery compartment lid

19
CLEAR button
Press to delete a pre-programmed track file.

20
TUNER MEMORY button
Press to preset the radio station.

21
PLAY MODE/TUNING MODE button
Press to select the play mode of a CD or MP3 disc.
Press to select the tuning mode.

22
DISPLAY button
Press to change the information on the display.

23
SLEEP button
Press to set the Sleep Timer.

- 1**
I/⏻ (power) button
Press to turn on the system.

2
◀▶ (go back/go forward) button
Press to select a track or file.

Unit: TUNING +/- (tuning) button
Remote: +/- (tuning) button
Press to tune in the desired station.

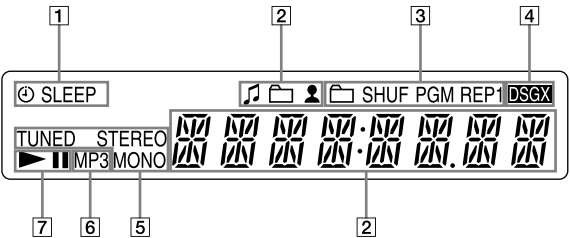
◀▶ (rewind/fast forward) button
Press to find a point in a track or file.

3
+/- (select folder) button
Press to select a folder.

4
Sound buttons
Unit: DSGX button
Remote: EQ button
Press to select the sound effect.

5
▲ PUSH OPEN/CLOSE
Press to open or close the CD compartment.

Information on the display



- 1**
Timer

2
Text information

3
Play mode

4
DSGX

5
Tuner reception mode
Tuner reception

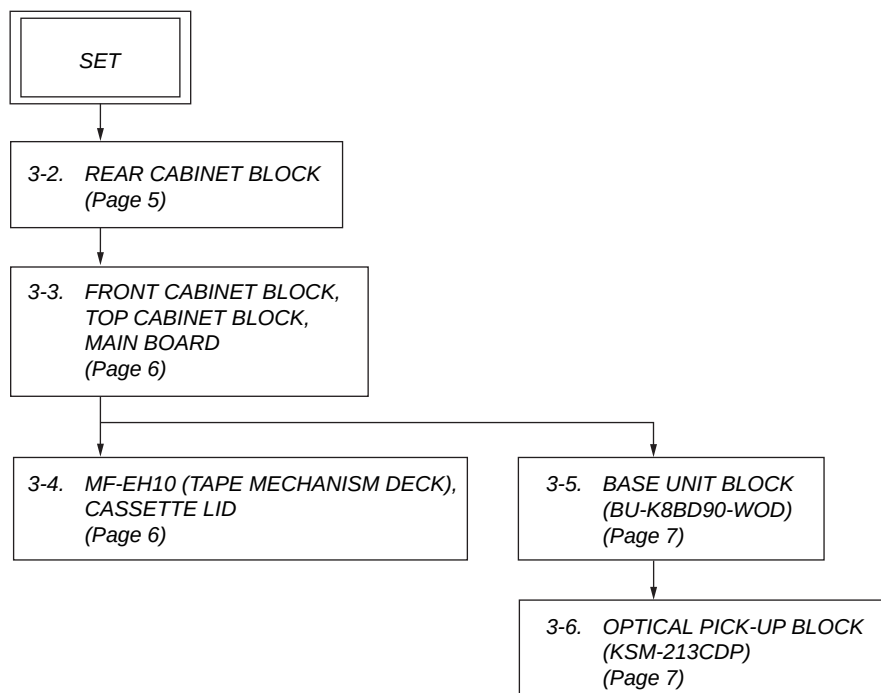
6
Audio format

7
Play/Pause

SECTION 3 DISASSEMBLY

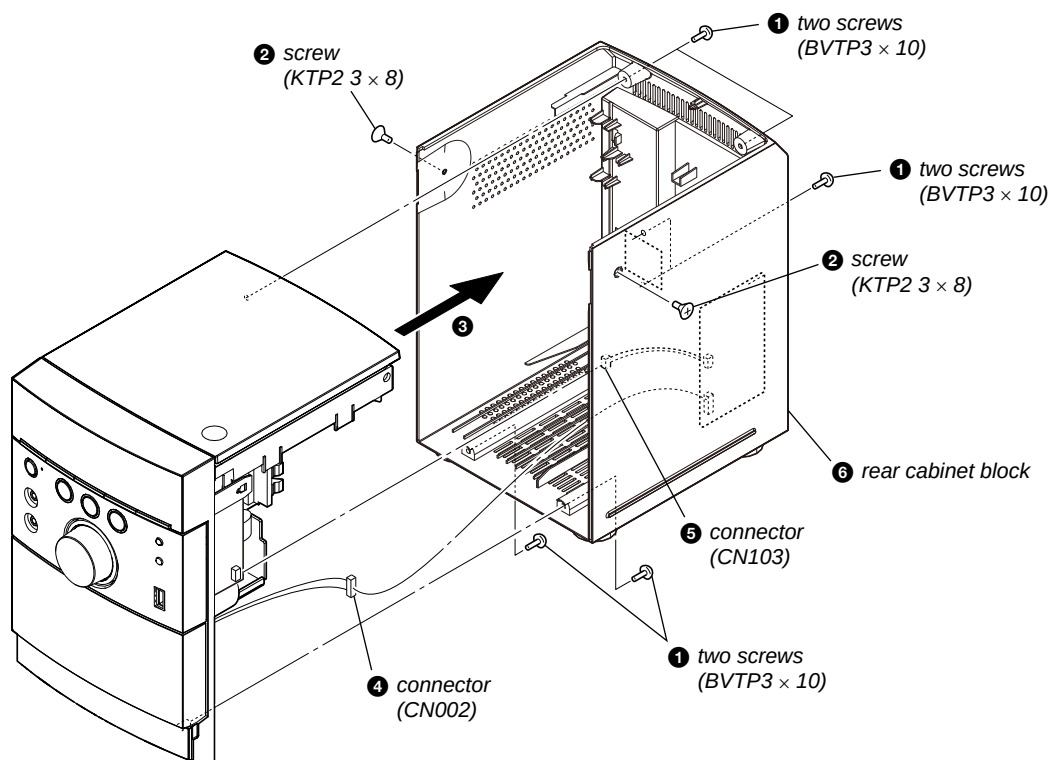
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

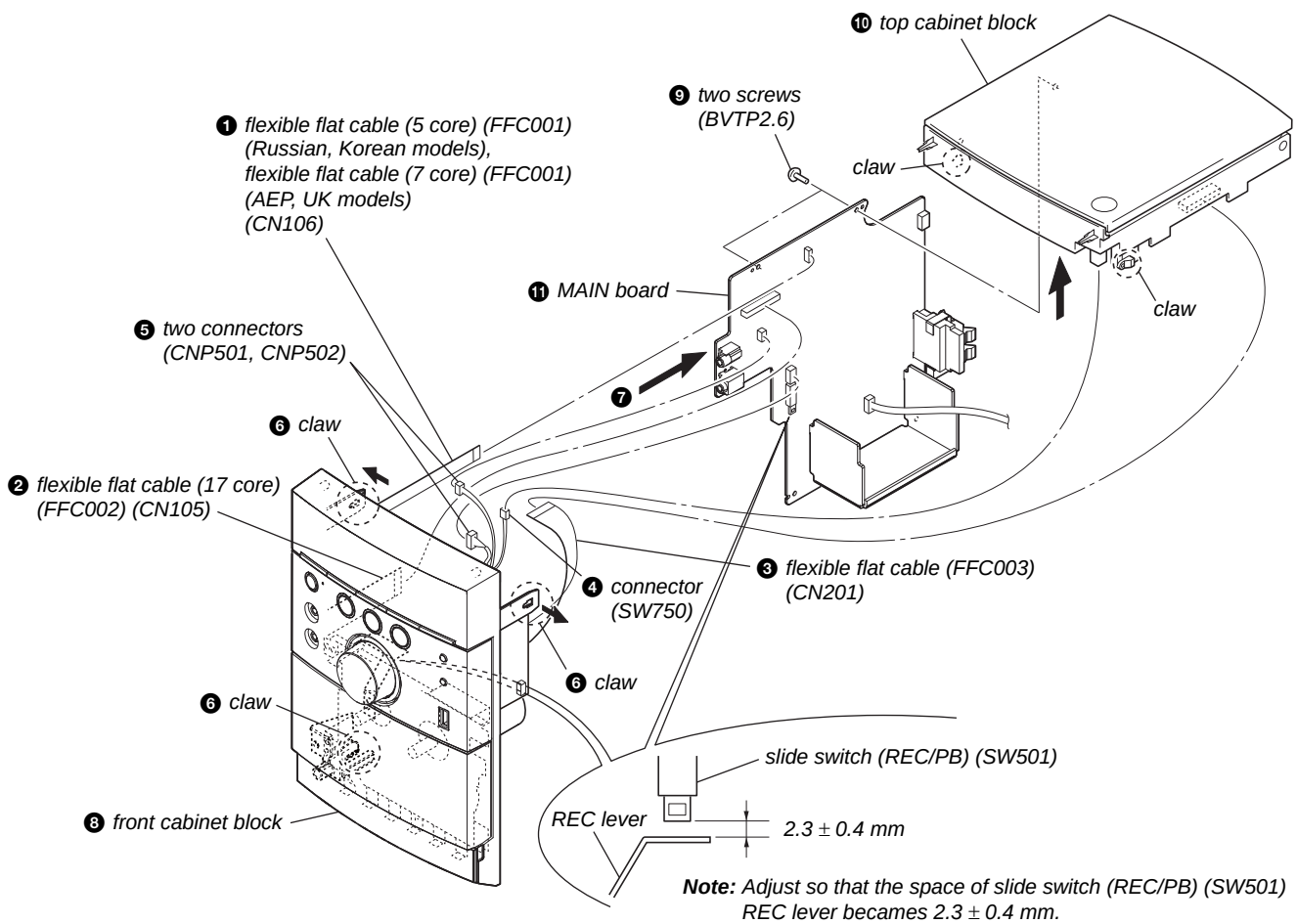


Note: Follow the disassembly procedure in the numerical order given.

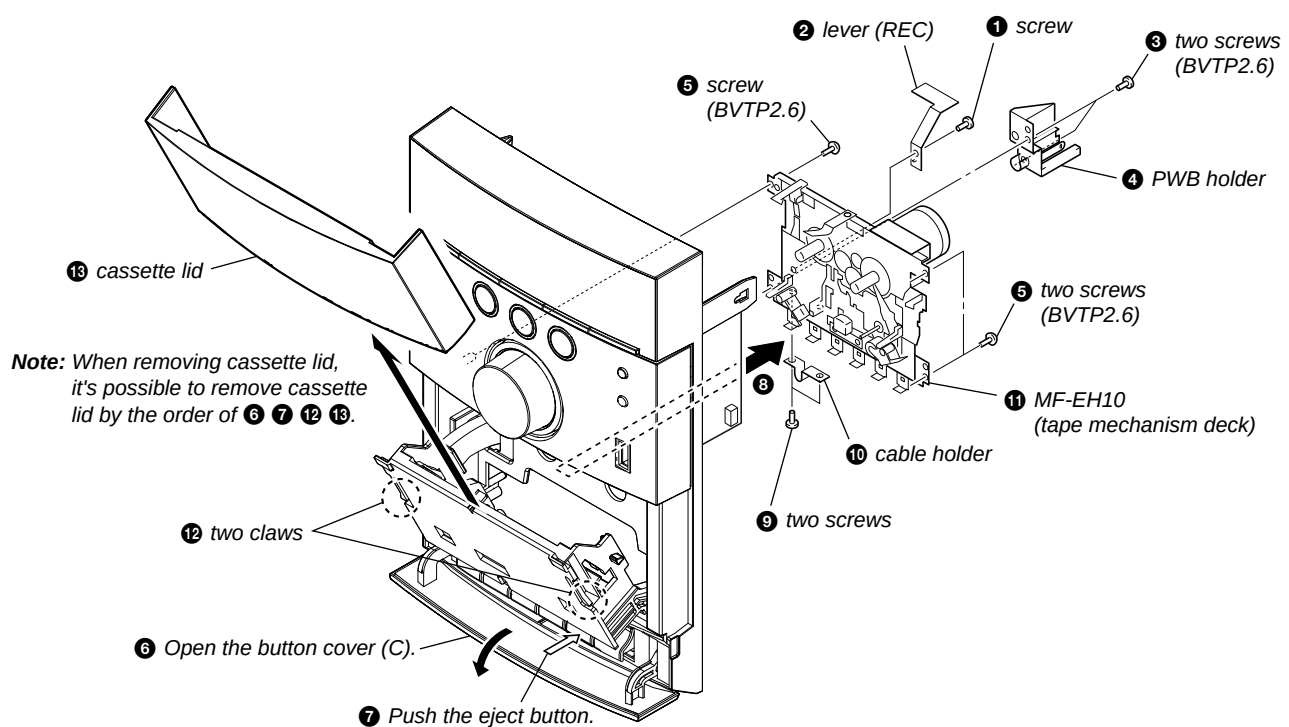
3-2. REAR CABINET BLOCK



3-3. FRONT CABINET BLOCK, TOP CABINET BLOCK, MAIN BOARD

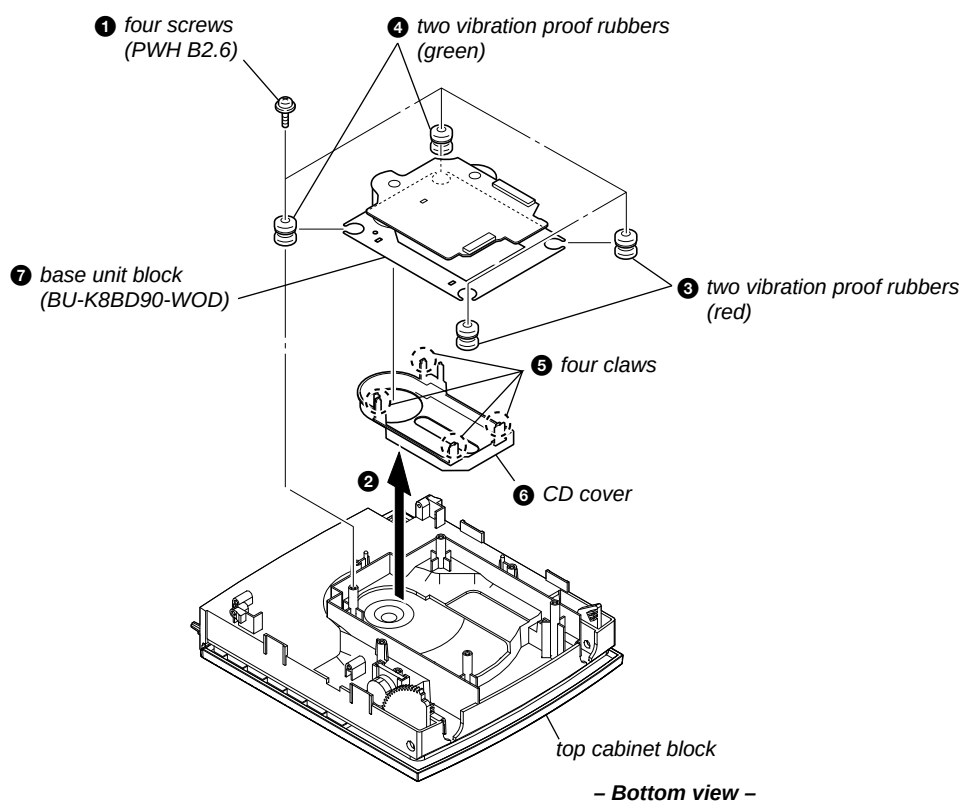


3-4. MF-EH10 (TAPE MECHANISM DECK), CASSETTE LID

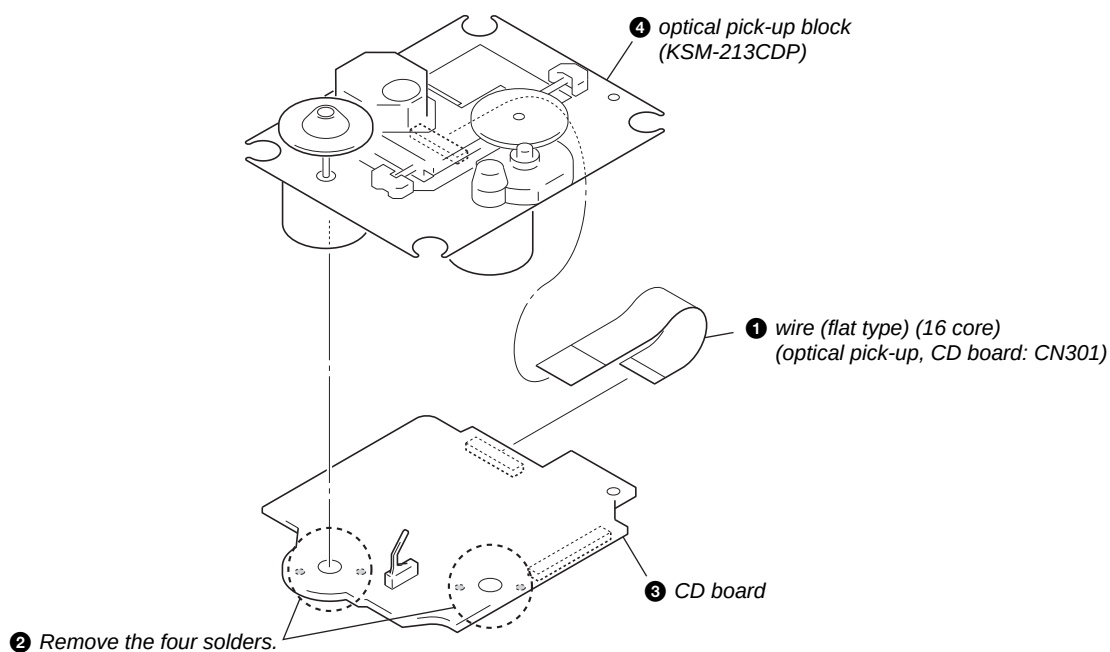


3-5. BASE UNIT BLOCK (BU-K8BD90-WOD)

Note: This illustration sees the top cabinet block back side from back.



3-6. OPTICAL PICK-UP BLOCK (KSM-213CDP)



SECTION 4

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. Press three buttons of [■], [◀◀ TUNING] and [I/⏻] simultaneously.
2. When “RESET” appears, the set enters standby status.

PANEL TEST MODE

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press three buttons of [FUNCTION], [USB], and [I/⏻] simultaneously.
3. When the panel test is activated, [STANDBY] LED and segments on the liquid crystal display are all turned on.
4. Press the [CD ▶▶] button, date and version are displayed. For example, “0403V101”.
5. Press the [TUNER/BAND] button, model name and destination are displayed. For example, “EH25CE2”.
6. To release from this mode, press three buttons of [FUNCTION], [USB], and [I/⏻] simultaneously.

TUNER STEP CHANGE

(EH25: Korean)

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 [TUNER/BAND] 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 [TUNING + ▶▶ ▷▷] 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 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 [◀◀ TUNING], [FUNCTION], and [I/⏻] simultaneously.
4. It enters the CD service mode and displays “SERVICE”.
5. To release from this mode, press three buttons of [◀◀ TUNING], [FUNCTION] and [I/⏻] simultaneously.

Key Operation:

[TUNING + ▶▶ ▷▷], [◀◀ TUNING]:

Use these keys to move the SLED. When [TUNING + ▶▶ ▷▷] is pressed in this mode, the SLED moves to outer circumference and the message “SLED OUT” is displayed. When [◀◀ TUNING] 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.

CD ERROR CODE

The past errors of the optical pick-up system (= optical unit + CD board) are displayed as the BD Errors as shown below.

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 [◀◀ TUNING], [DSGX] and [I/⏻] simultaneously.
4. Then, the BD error code is displayed as “D0xxxxxx” (x means hexadecimal number) on the liquid crystal display as shown below.
5. Every pressing of the [TUNING + ▶▶ ▷▷] button in this mode increments the number after “D” starting from “D0” up to “D4”, and then returns to “D0”. Every pressing of the [◀◀ TUNING] button in this mode decrements the number after “D”. The smaller the error code number is, the newer the error content is.
6. To release from this mode, press the [I/⏻] button to turn the power off.

Contents of “BD Errors”

Error display example

D 0 01 06 01
① ② ③ ④

- ① It indicates the error history number
0 to 4: The error code number 0 indicates the newest error.
- ② It indicates the error content
01: The focus servo cannot lock-in.
02: GFS is no good (NG).
03: The startup time exceeds the specified period of time (time over)
04: The focus servo is unlocked continuously.
05: Q code cannot be obtained within the specified period of time.
06: The tracking servo cannot lock-in.
07: Blank disc
- ③ It indicates the on-going processing of optical pick-up system (= optical unit + CD board) when the trouble has occurred.
01: The CD SHIP mode processing is in progress.
02: The POWER OFF processing is in progress.
03: The POWER ON processing is in progress.
04: The INITIALIZE processing is in progress.
05: The optical pick-up system (= optical unit + CD board) is in the stop state.
06: The STOP operation is in progress.
07: The startup processing is in progress.
08: The TOC read-in processing is in progress.
09: The SEARCH operation is in progress.
0A: The PLAY operation is in progress.
0B: The PAUSE operation is in progress.
0C: The PLAY – MANUAL SEARCH operation is in progress.
0D: The PAUSE – MANUAL SEARCH operation is in progress.
- ④ It indicates the operation that is being processed when the trouble has occurred.
It indicates the step number of each processing specified by 3. Because the numbers of steps are different in each processing, this number is different in each processing.

SECTION 5 MECHANICAL ADJUSTMENTS

Precaution

- Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
- Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head magnetizer close to the erase head.)
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102AS	2.0 – 8.0 mN • m (20 – 80 g • cm) (0.28 – 1.12 oz • inch)
FWD Back Tension	CQ-102C	0.15 – 0.6 mN • m (1.5 – 6.0 g • cm) (0.021 – 0.083 oz • inch)
FF	CQ-201AS	5.0 – 17.7 mN • m (50 – 177 g • cm) (0.7 – 2.48 oz • inch)
REW	CQ-201B	5.0 – 17.7 mN • m (50 – 177 g • cm) (0.7 – 2.48 oz • inch)

Tape Tension Measurement

Mode	Torque meter	Meter reading
FWD	CQ-403A	more than 80 g (more than 2.82 oz)

SECTION 6 ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB = 0.775

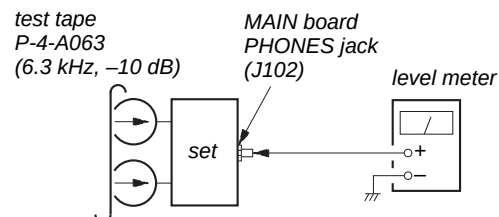
- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.

TEST TAPE

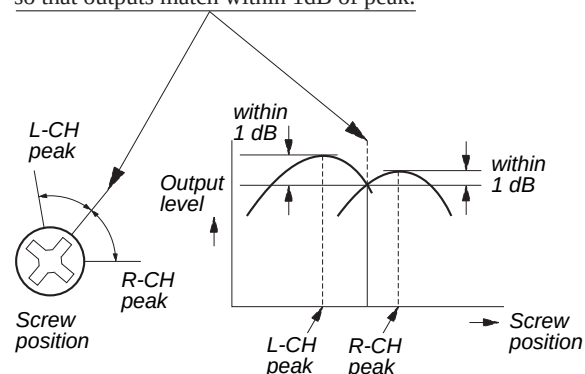
Tape	Signal	Used for
P-4-A063	6.3 kHz, -10 dB	Azimuth Adjustment

RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT Procedure:

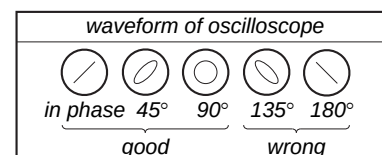
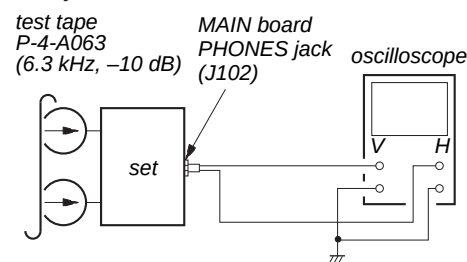
- Mode: Playback



- Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



- Mode: Playback

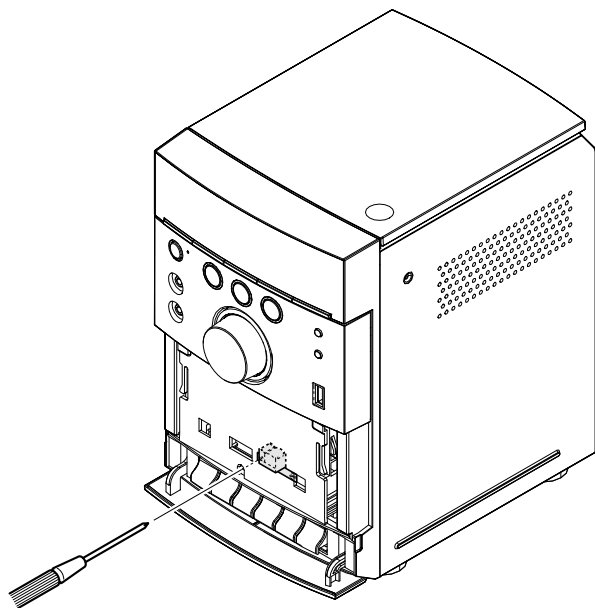


- Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Adjustment Location: Record/Playback/Erase Head

Note: Remove the cassette lid before this adjustment.

Refer to "DISASSEMBLY" (page 5)



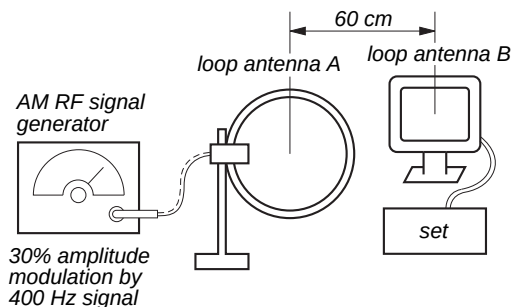
TUNER SECTION 0 dB = 1 μ V

[AM]

Setting:

Function: TUNER

Band: AM

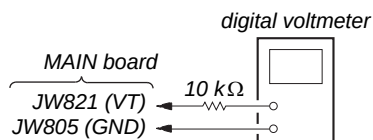
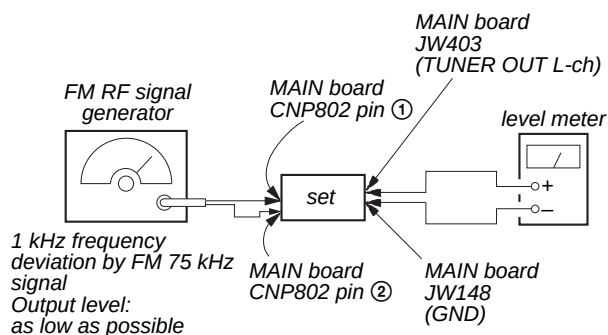


[FM]

Setting:

Function: TUNER

Band: FM



- Repeat the procedures in each adjustment several times, and the tracking adjustments should be finally done by the trimmer capacitors.
- Remove FM antenna in FM adjustment.

(): AEP, Russian and UK models

AM VT VOLTAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L852	530 (531) kHz	1.5 ± 0.1 V
Confirmation	1710 (1602) kHz	$8.0 (7.2) \pm 0.5$ V

(): AEP, Russian and UK models

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L851	530 (531) kHz

FM VT VOLTAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L805	87.5 MHz	1.75 ± 0.1 V
Confirmation	108 MHz	6.2 ± 0.5 V

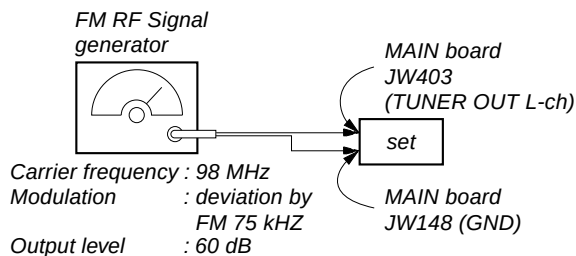
FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L804	98 MHz

FM DETECTOR ADJUSTMENT

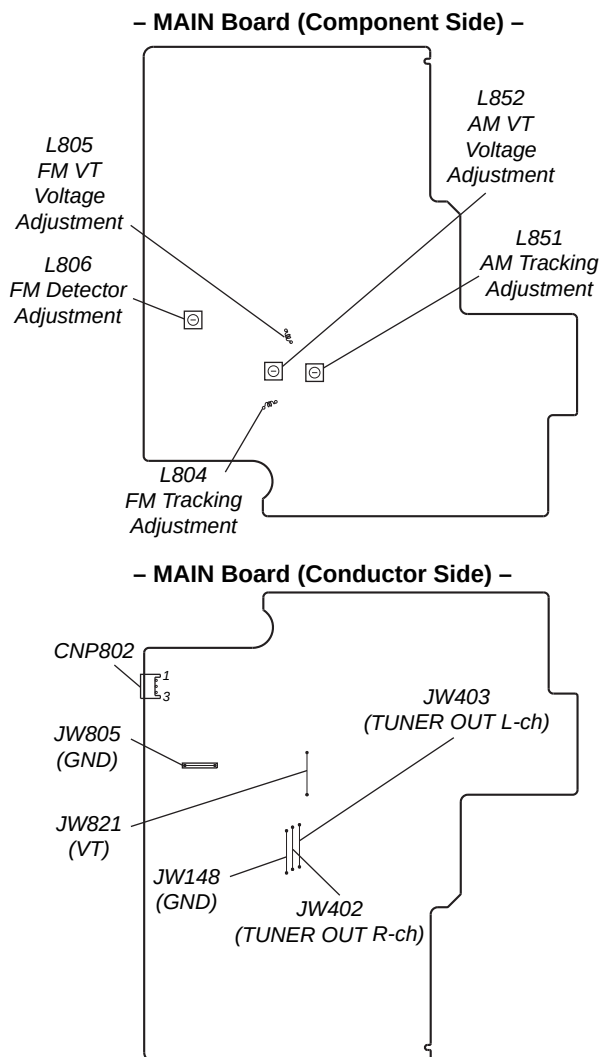
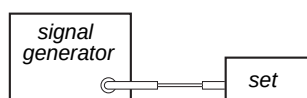
Setting:

Function: TUNER

BAND button: FM



1. Tune the set to 98 MHz.
2. Adjust L806 so that modulation distortion may become the best in the vicinity of the maximum value where the tuner out level becomes -156Bs or more.

Adjustment Location:**FM TUNE LEVEL CHECK****Procedure:**

1. Turn on the set.
2. Input the following signal from signal generator to FM antenna input directly.

Carrier frequency : A = 87.5 MHz, B = 98 MHz, C = 108 MHz
 Deviation : 75 kHz
 Modulation : 1 kHz
 ANT input : 35 dBu (EMF)

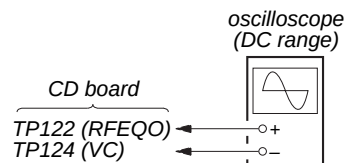
Note: Use 75 ohm coaxial cable to connect signal generator and the set.
 You cannot use video cable for checking.
 Use signal generator whose output impedance is 75 ohm.

3. Set to FM tuner function and tune A, B and C signals.
4. Confirm “TUNED” is lit on the display for A, B and C signals.

When the selected station signal is received in good condition, “TUNED” is displayed.

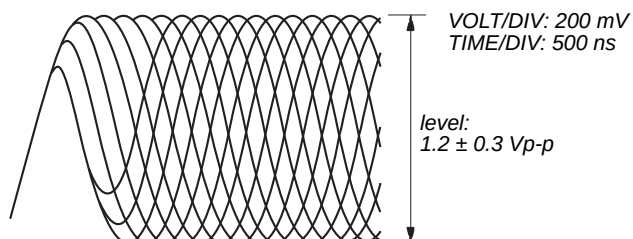
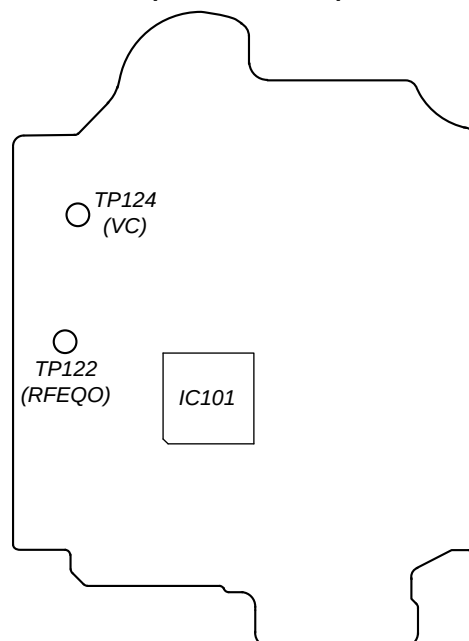
CD SECTION**Note:**

1. CD Block is basically constructed to operate without adjustment.
2. Use YEDS-18 disc (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:**

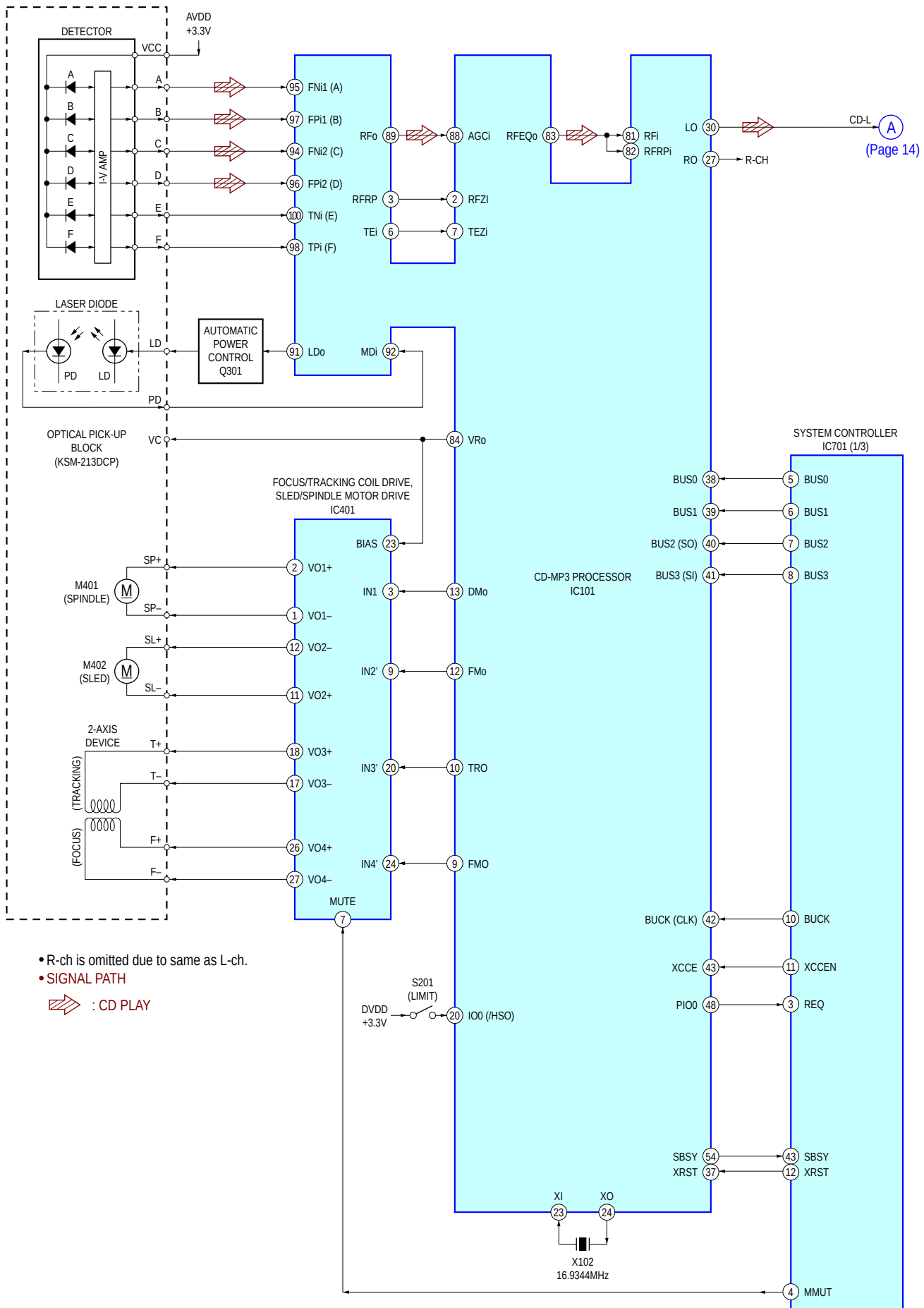
1. Connect oscilloscope to TP122 (RFEQO) and TP124 (VC) on the CD board.
2. Press the [I/⏻] button to turn the power on.
3. Set the disc (YEDS-18) and press the [CD ▶⏮] button to play-back.
4. Confirm that oscilloscope waveform is as shown in the figure below. (eye pattern)

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

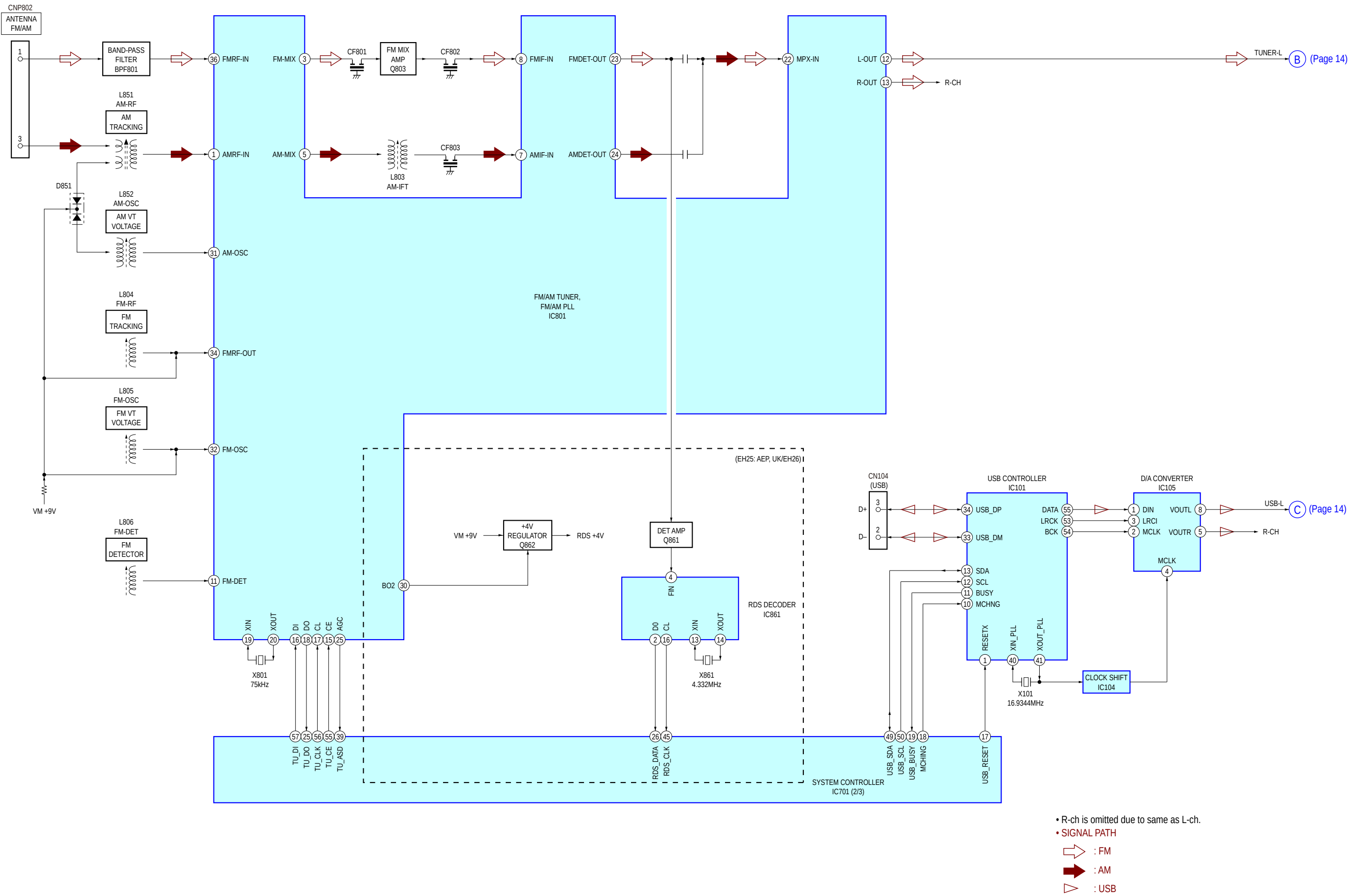
**Checking Location:****– CD Board (Conductor Side) –**

SECTION 7 DIAGRAMS

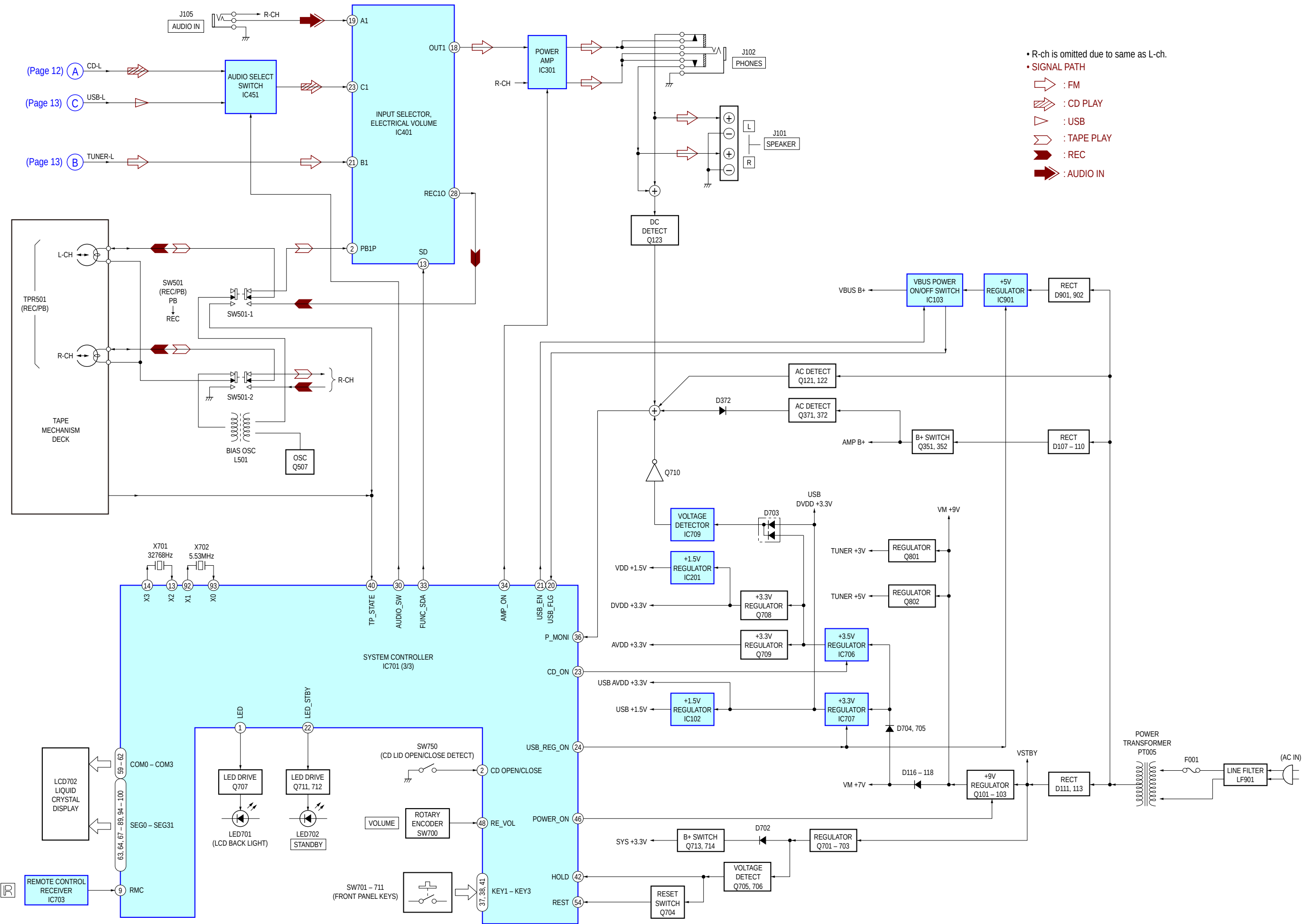
7-1. BLOCK DIAGRAM - CD SERVO Section -



7-2. BLOCK DIAGRAM - TUNER/USB Section -



7-3. BLOCK DIAGRAM - MAIN/POWER SUPPLY Section -



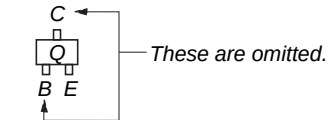
THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Printed Wiring Boards.

- Note:
- : Parts extracted from the component side.
 - : parts extracted from the conductor side.
 - : indicates side identified with part number.
 - △: internal component.
 - : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

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

- Indication of transistor.



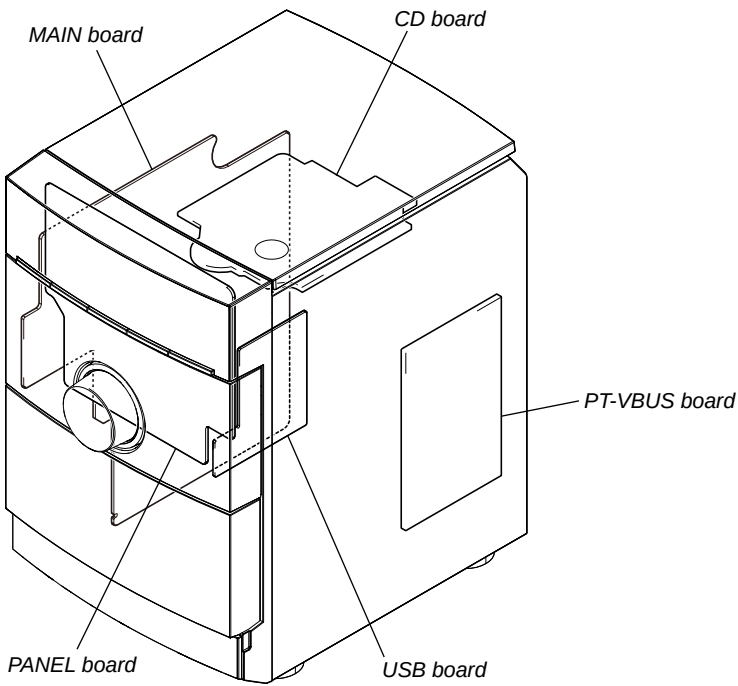
For Schematic Diagrams.

- 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.
 - △: internal component.
 - : panel designation.

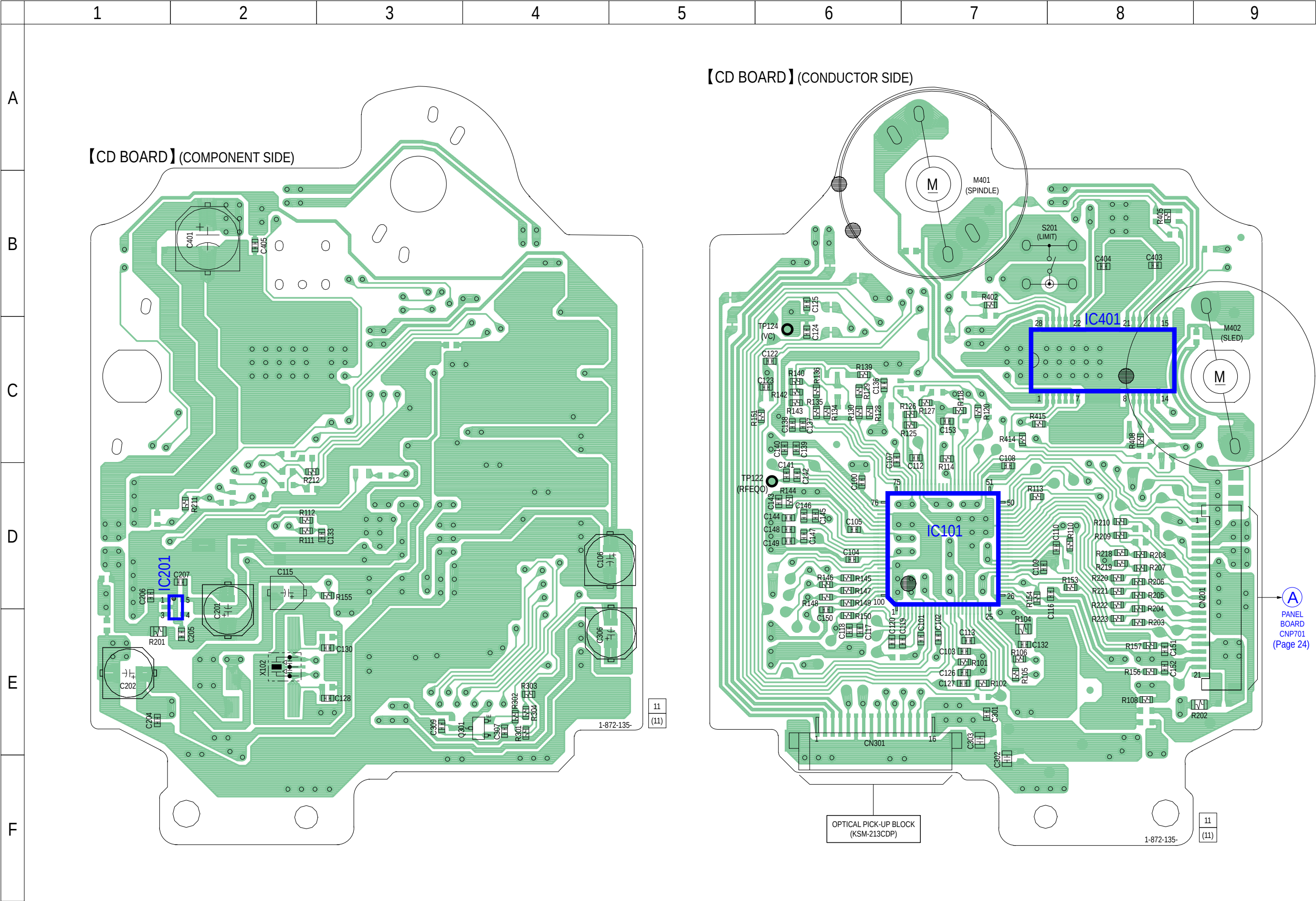
Note: The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

- : B+ Line.
- : adjustment for repair.
- 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 board —
no mark: FM
 - []: AM
 - (): CD PLAY
 - << >>: USB
 - < >: TAPE PLAY
 - { }: REC
 - *: 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.
 - : FM
 - : AM
 - : CD PLAY
 - : USB
 - : TAPE PLAY
 - : REC
 - : AUDIO IN
- Abbreviation
 - KR : Korean model
 - RU : Russian model

• Circuit Boards Location



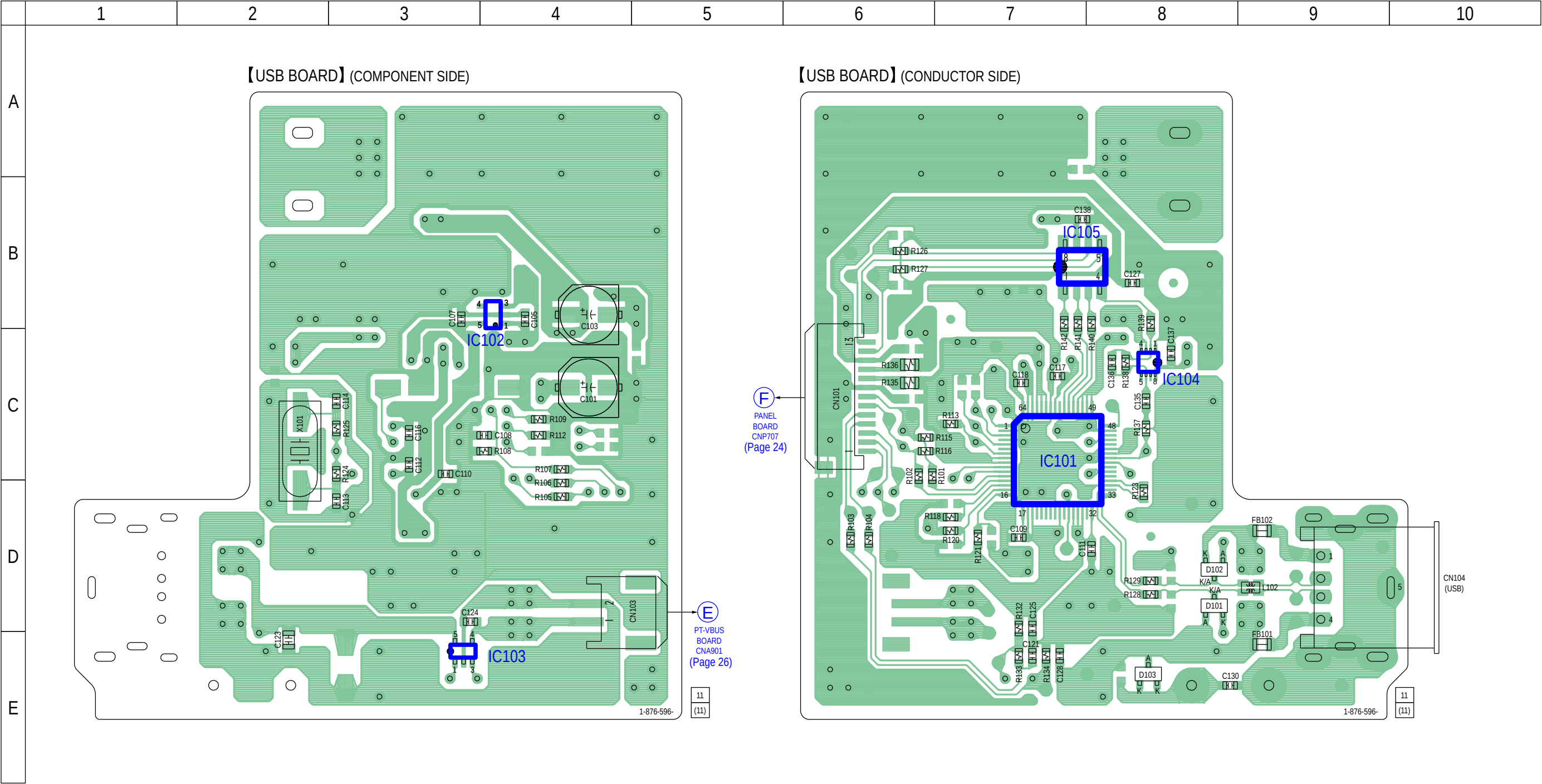
7-4. PRINTED WIRING BOARD - CD Board - • See page 15 for Circuit Boards Location. • : Uses unleaded solder.



17 17



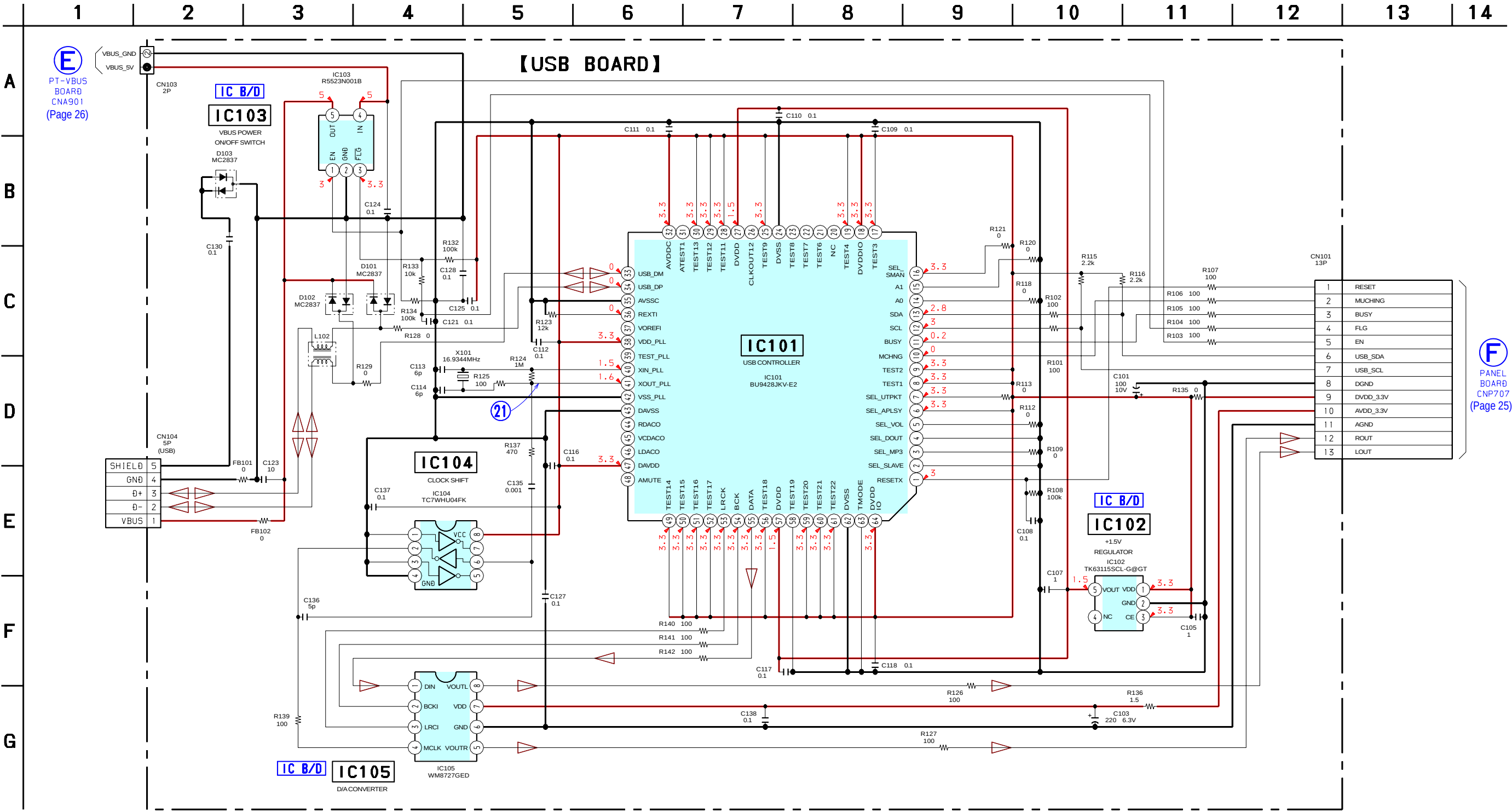
7-6. PRINTED WIRING BOARD - USB Board - • See page 15 for Circuit Boards Location. •  : Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
D101	D-8
D102	D-8
D103	E-8
IC101	C-7
IC102	B-4
IC103	E-3
IC104	C-8
IC105	B-7

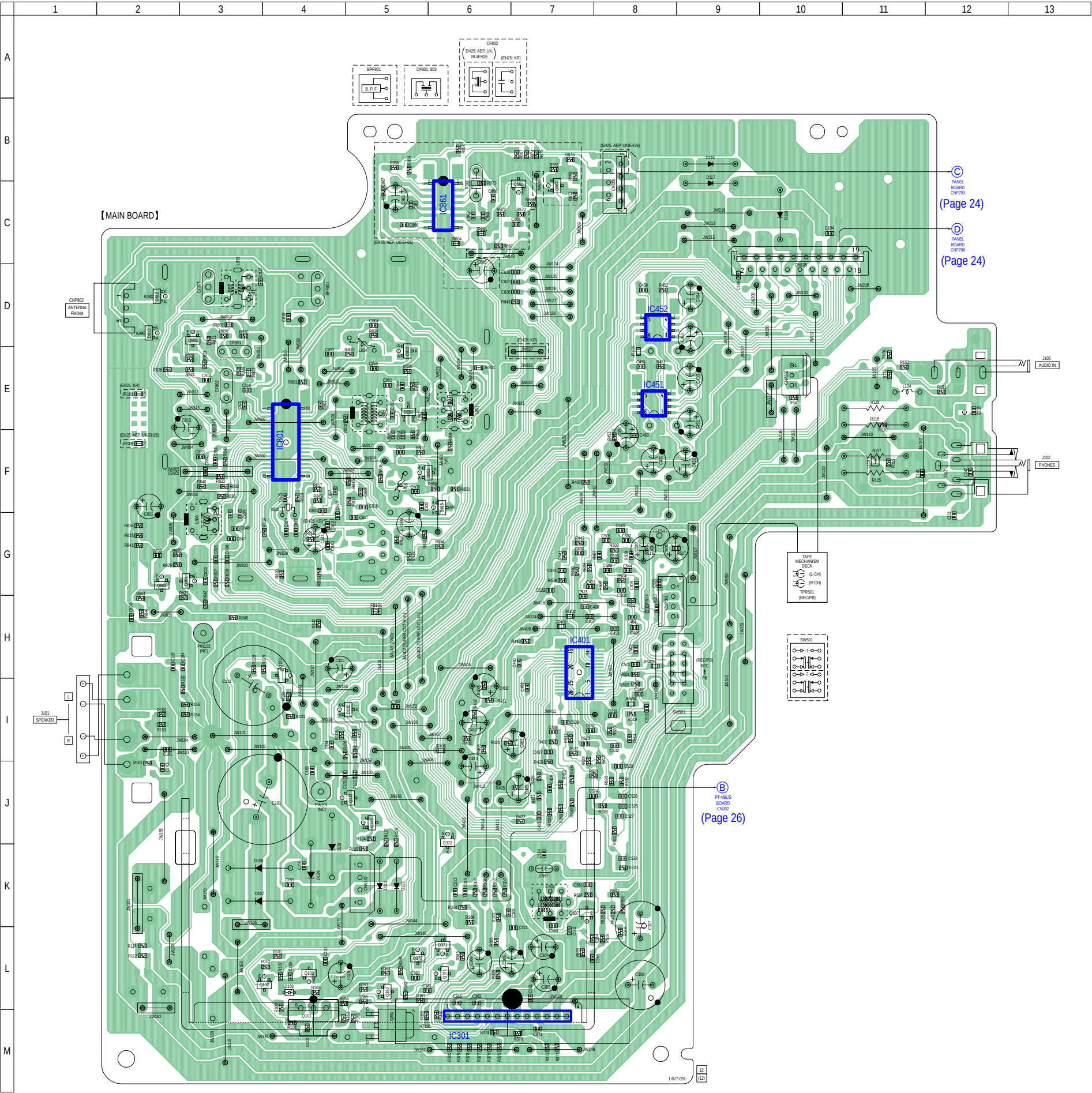
7-7. SCHEMATIC DIAGRAM - USB Board - • See page 23 for Waveforms. • See page 27 for IC Block Diagrams. • See page 33 for IC Pin Function Description.



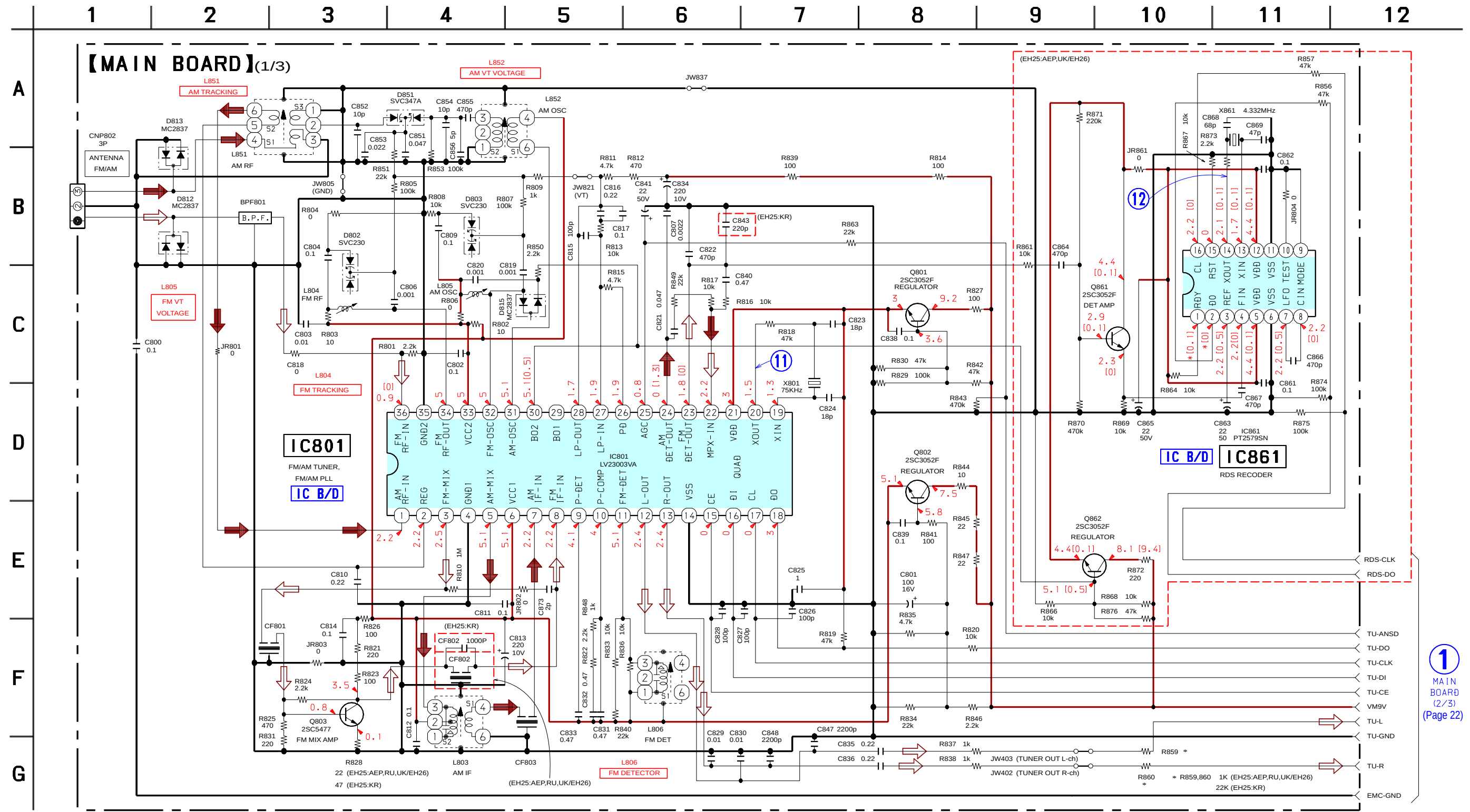
7-8. PRINTED WIRING BOARD - MAIN Board - • See page 15 for Circuit Boards Location. • : Uses unleaded solder.

• Semiconductor Location

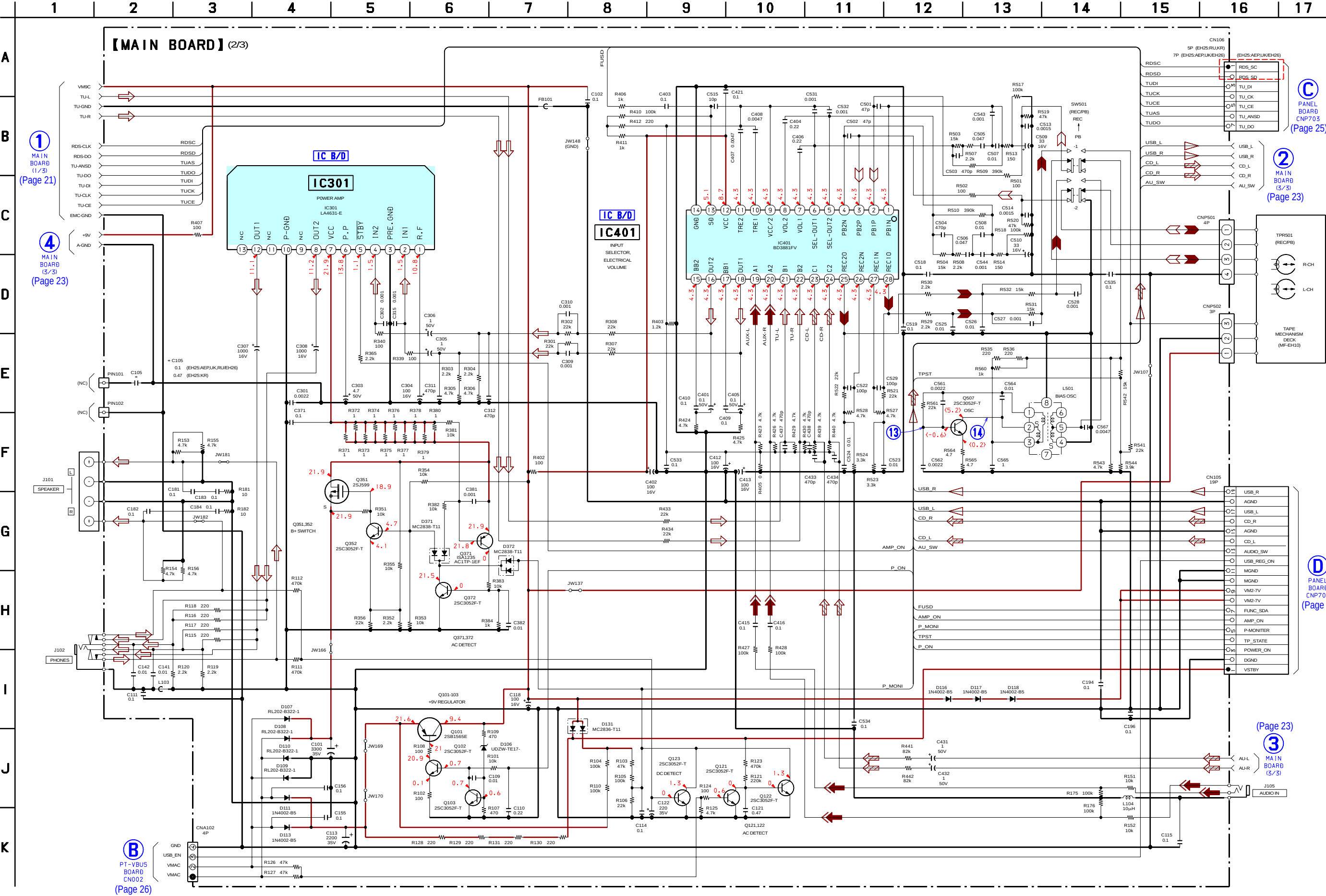
Ref. No.	Location
D106	L-4
D107	K-3
D108	K-3
D109	K-4
D110	K-4
D111	K-5
D113	K-5
D116	B-9
D117	C-9
D118	C-10
D131	I-5
D371	L-6
D372	J-6
D802	E-5
D803	F-6
D812	D-2
D813	D-2
D815	F-6
D851	E-5
IC301	M-6
IC401	H-7
IC451	E-8
IC452	D-8
IC801	F-4
IC861	C-6
Q101	M-4
Q102	L-4
Q103	L-4
Q121	J-5
Q122	J-5
Q123	H-4
Q351	M-5
Q352	L-5
Q371	L-6
Q372	L-5
Q507	K-7
Q801	G-3
Q802	G-2
Q803	D-3
Q861	C-7
Q862	C-7



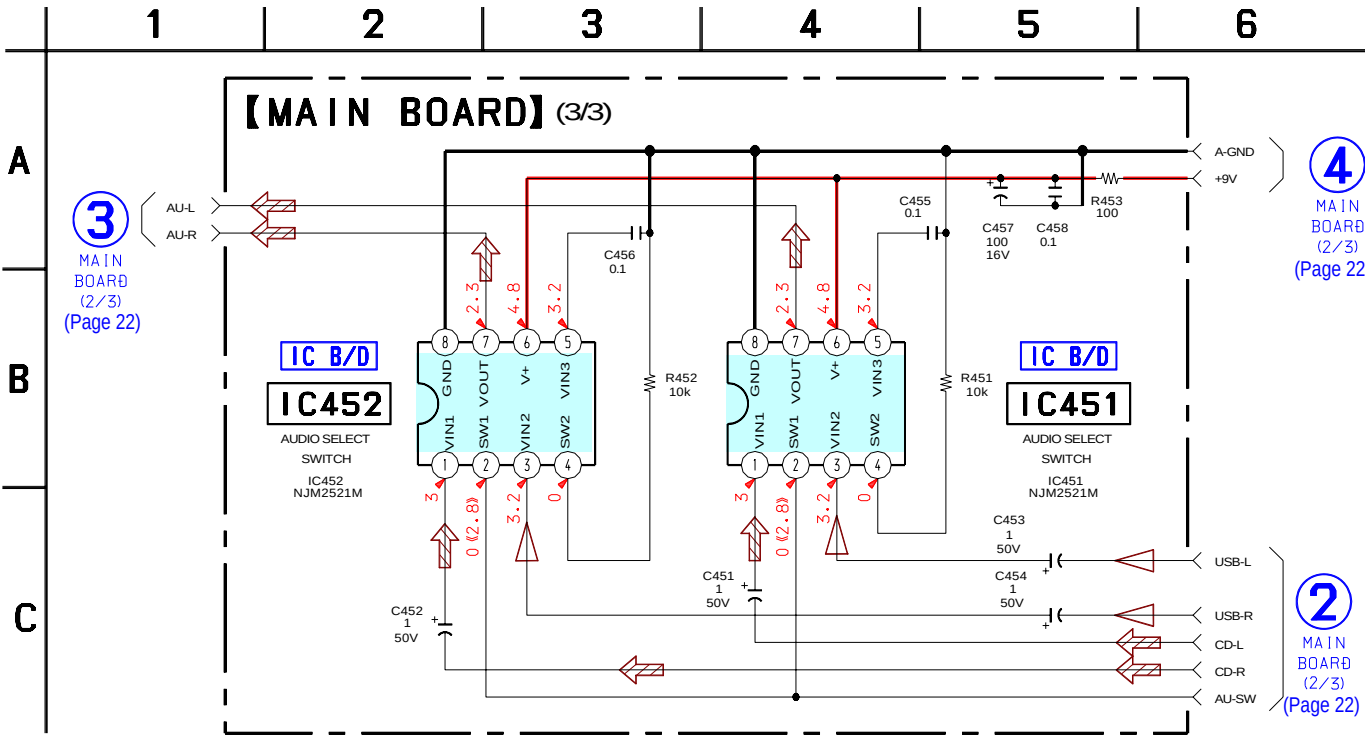
7-9. SCHEMATIC DIAGRAM - MAIN Board (1/3) - • See page 23 for Waveforms. • See page 27 for IC Block Diagrams.



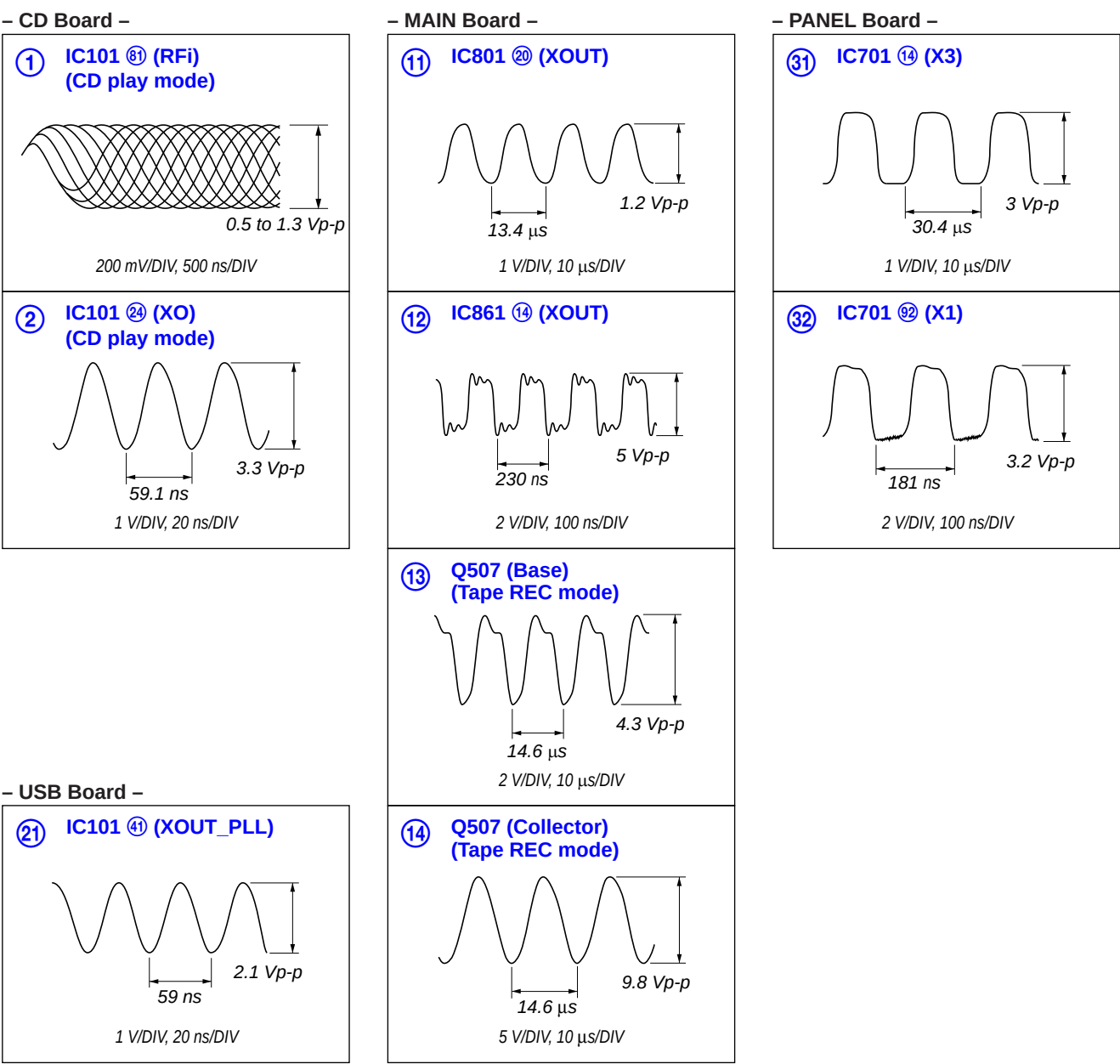
7-10. SCHEMATIC DIAGRAM - MAIN Board (2/3) - • See page 23 for Waveforms. • See page 27 for IC Block Diagrams.



7-11. SCHEMATIC DIAGRAM - MAIN Board (3/3) - • See page 27 for IC Block Diagrams.



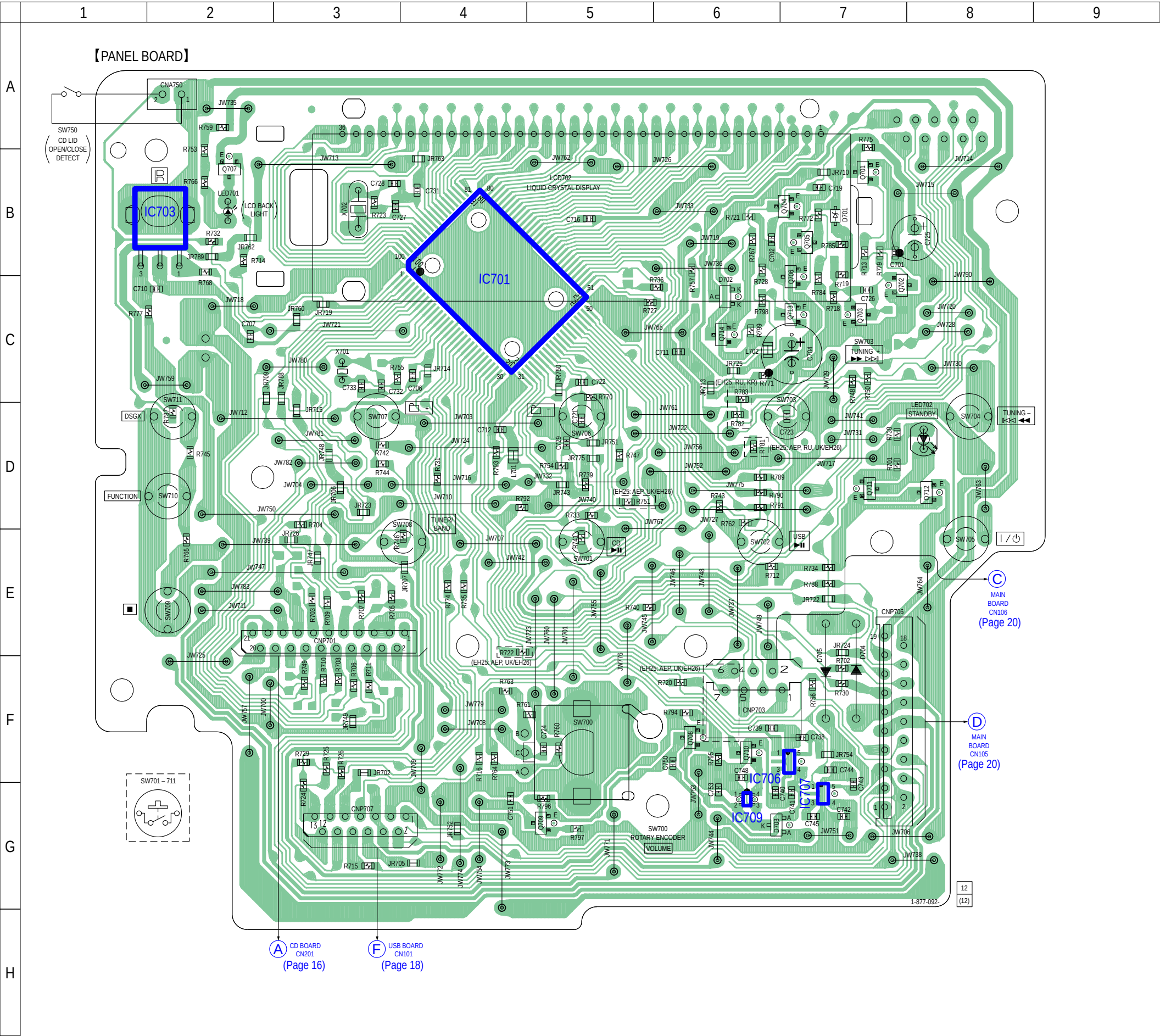
• Waveforms



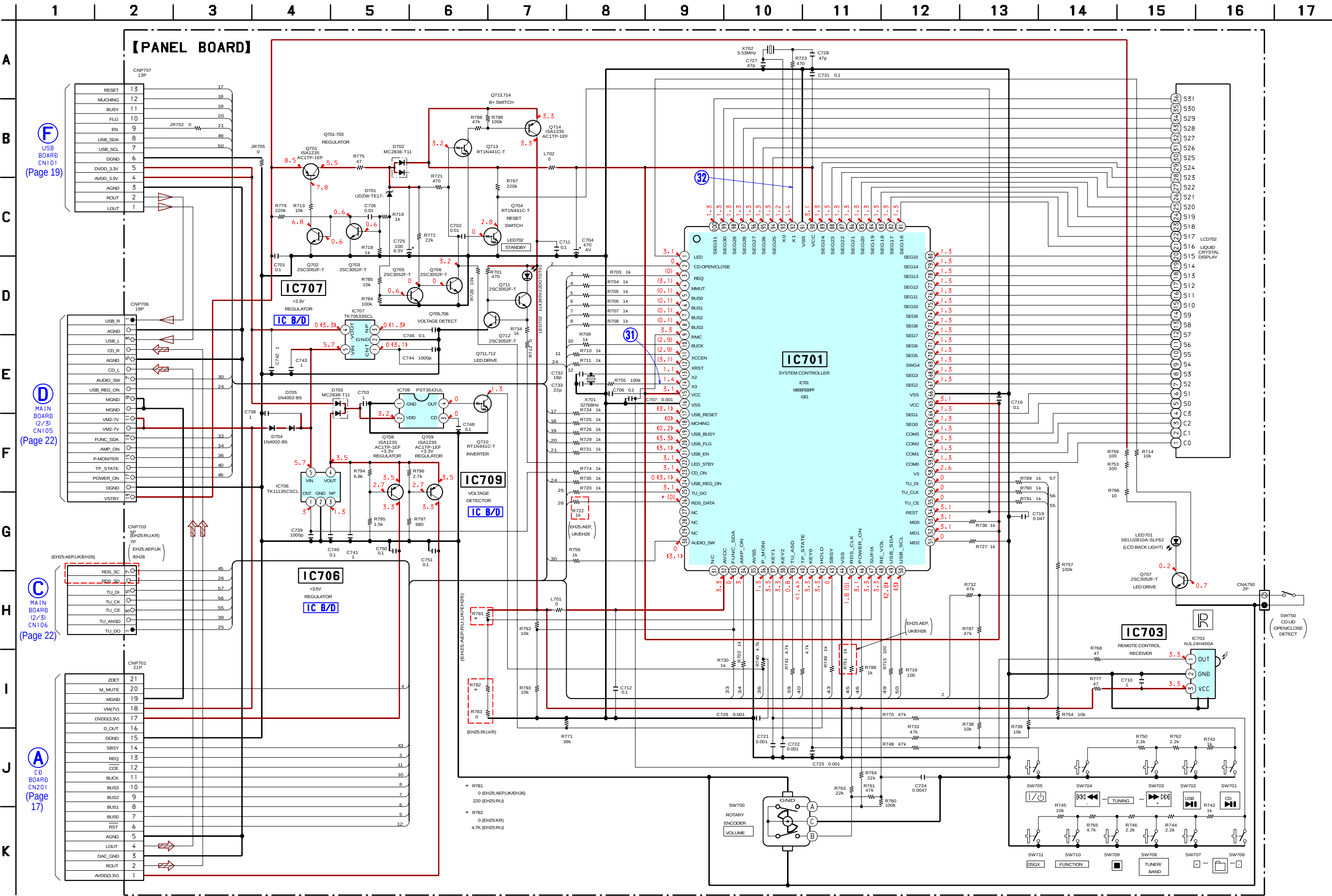
7-12. PRINTED WIRING BOARD - PANEL Board - • See page 15 for Circuit Boards Location. •  : Uses unleaded solder.

• Semiconductor Location

Ref. No.	Location
D701	B-7
D702	C-6
D703	G-6
D704	F-7
D705	F-7
IC701	C-4
IC703	B-2
IC706	F-7
IC707	G-7
IC709	G-6
LED701	B-2
LED702	D-8
Q701	B-7
Q702	C-7
Q703	C-7
Q704	B-7
Q705	B-7
Q706	C-7
Q707	B-2
Q708	F-6
Q709	G-5
Q710	F-6
Q711	D-7
Q712	D-8
Q713	C-7
Q714	C-6

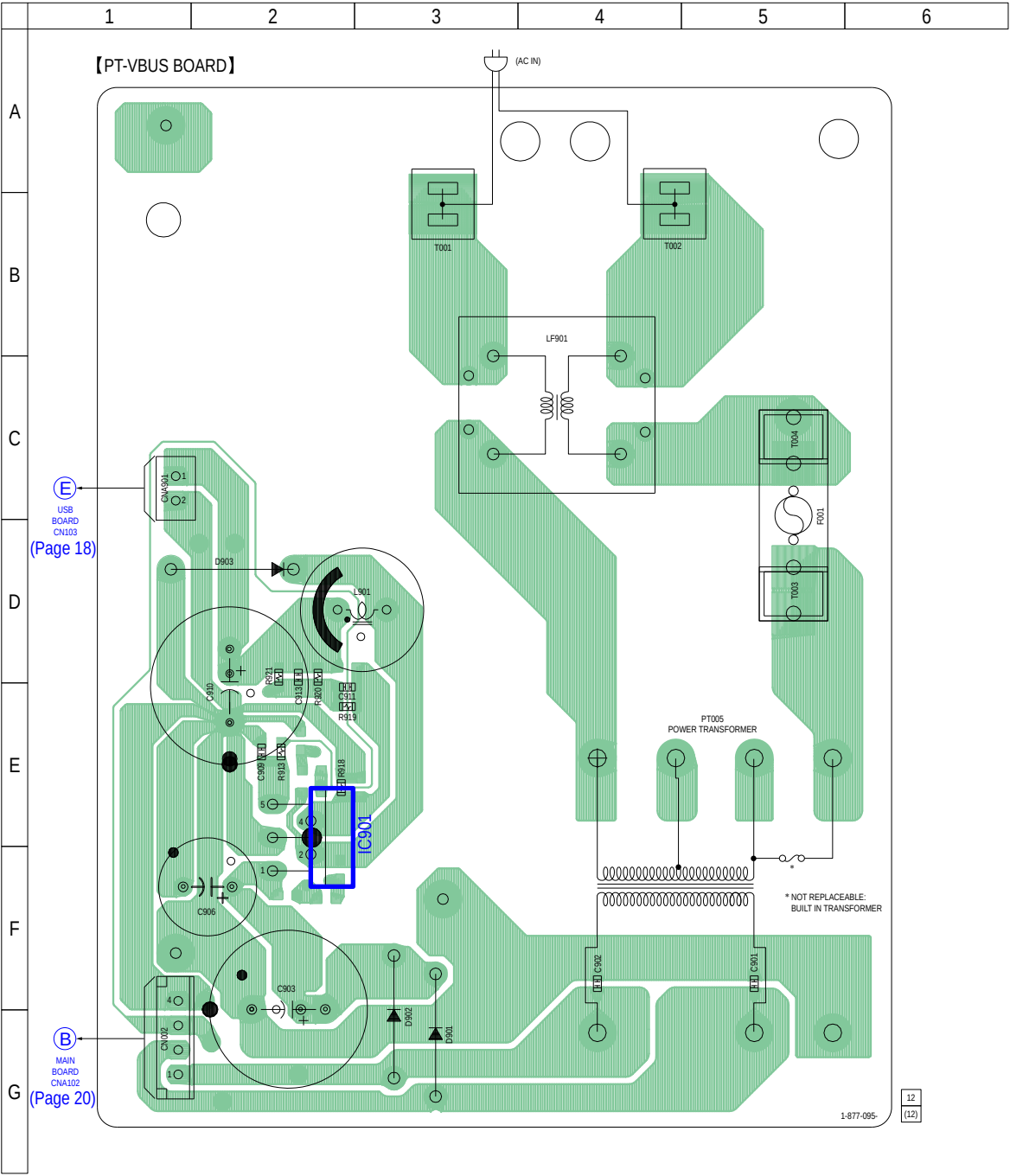


7-13. SCHEMATIC DIAGRAM - PANEL Board - • See page 23 for Waveforms. • See page 27 for IC Block Diagrams. • See page 33 for IC Pin Function Description.



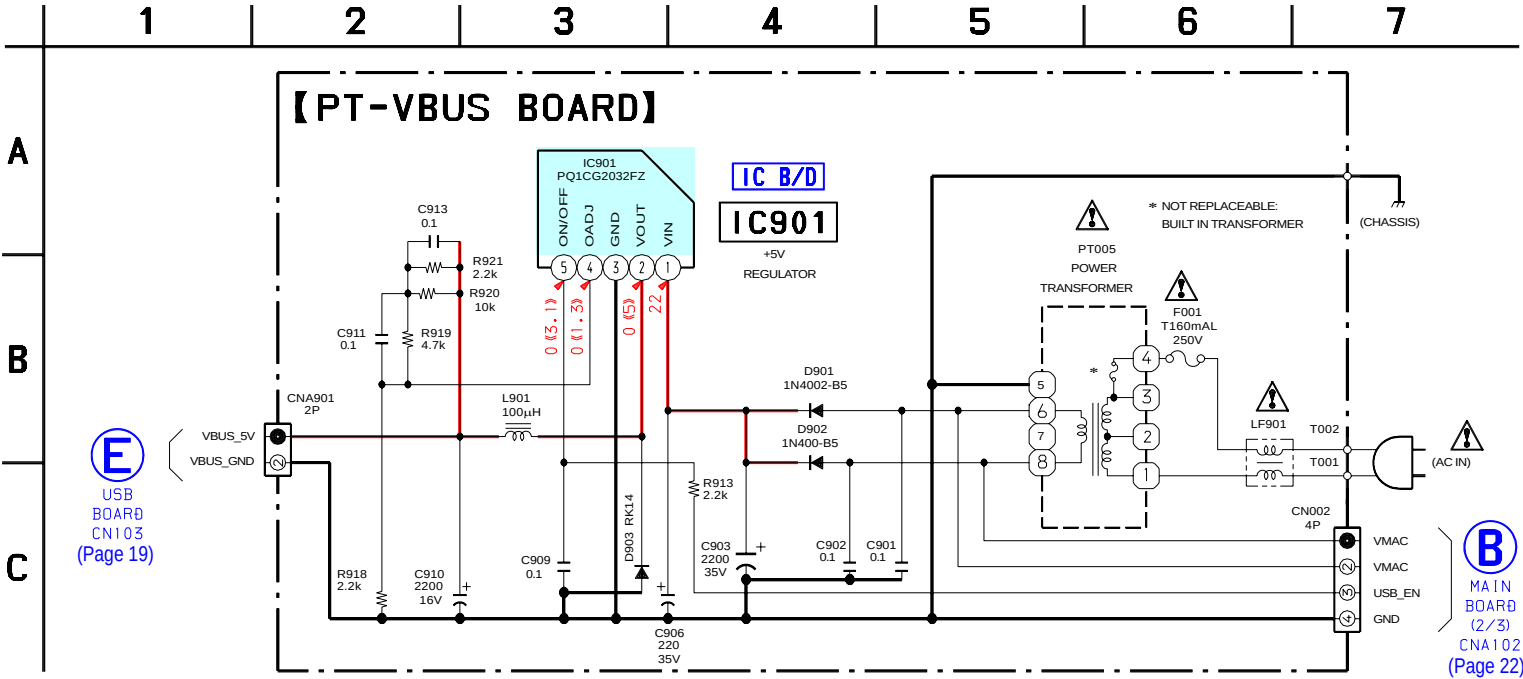
7-14. PRINTED WIRING BOARD - PT-VBUS Board -

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



7-15. SCHEMATIC DIAGRAM - PT-VBUS Board -

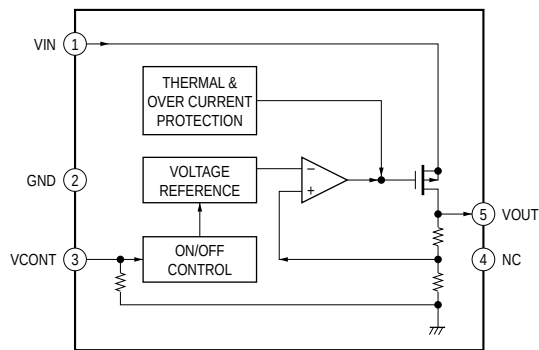
• See page 27 for IC Block Diagrams.



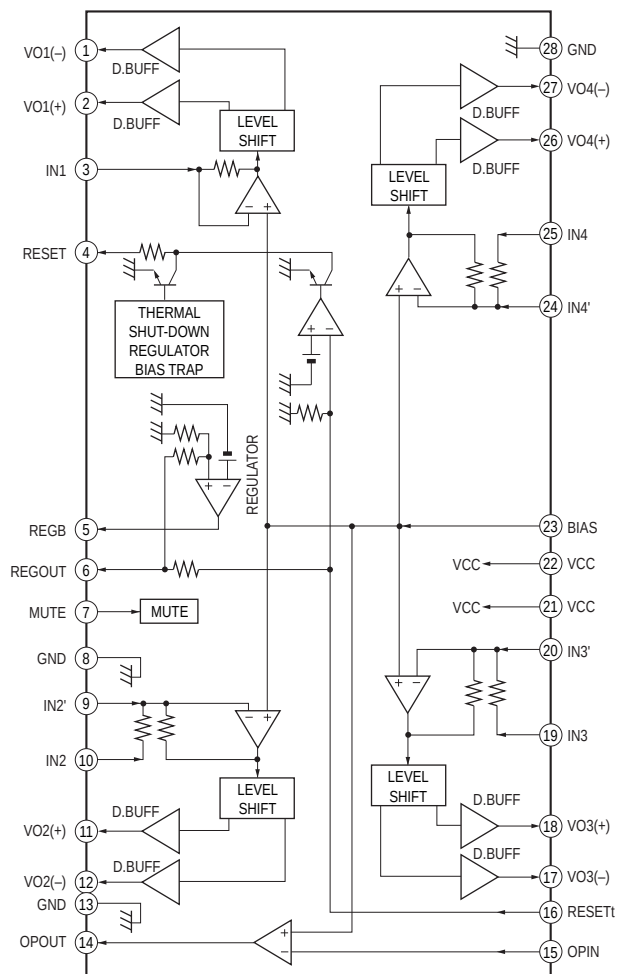
• IC Block Diagrams

– CD Board –

IC201 TK63115SCL-G@GT

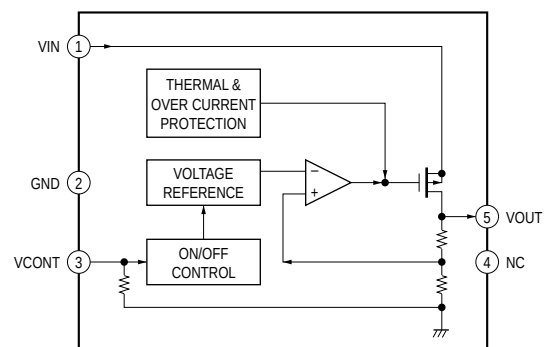


IC401 BA5826SFP-E2

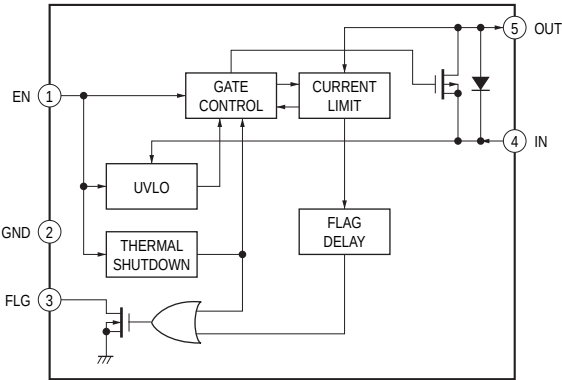


– USB Board –

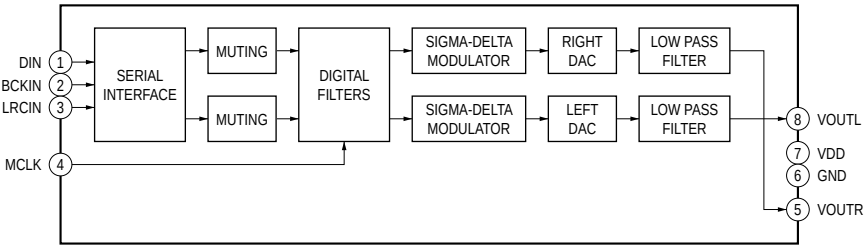
IC102 TK63115SCL-G@GT



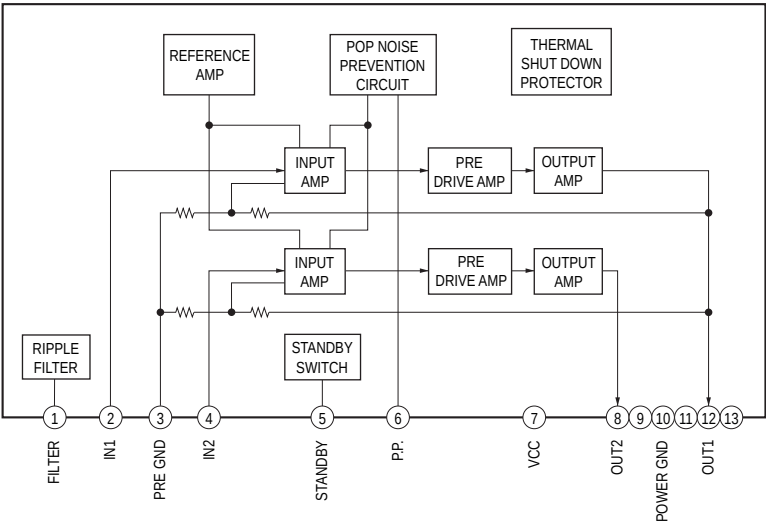
IC103 R5523N001B-TR-F

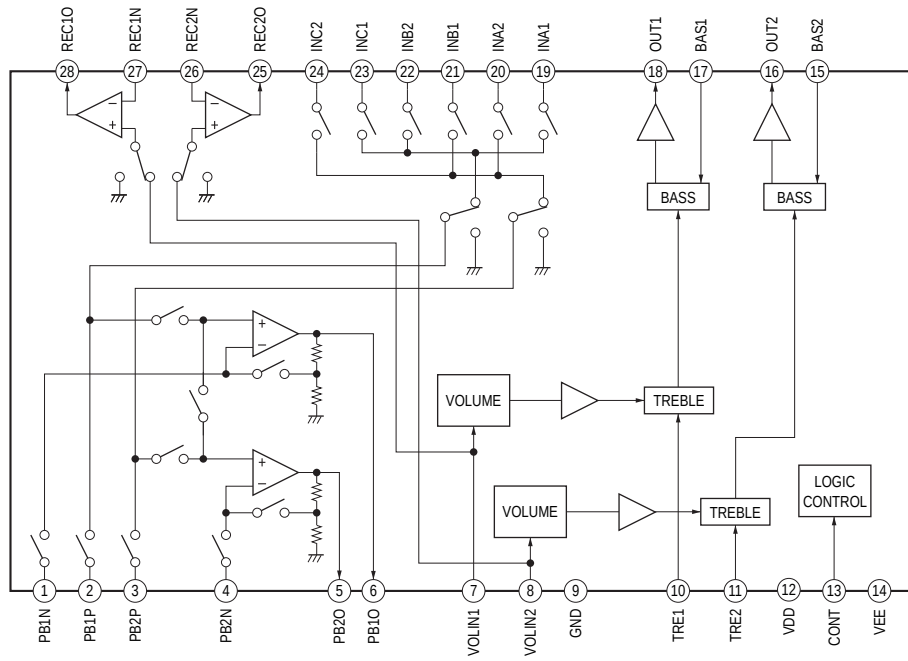
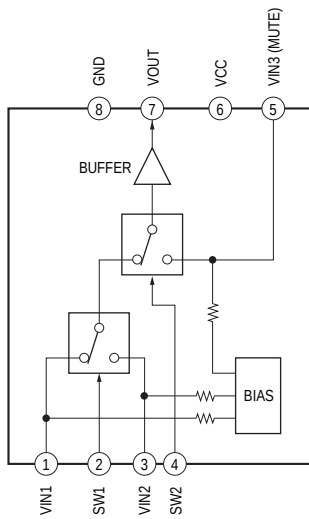


IC105 WM8727GED/RV

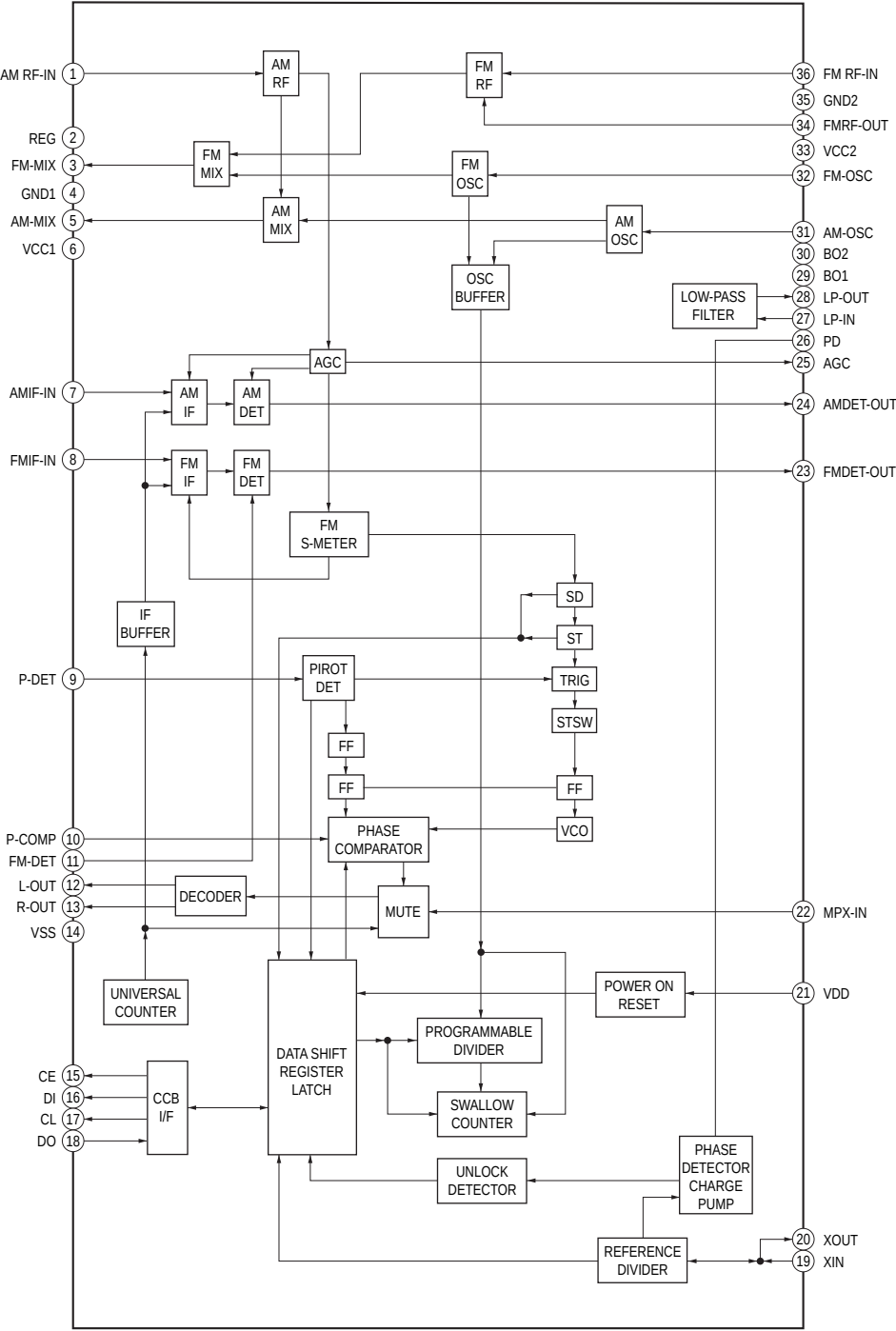


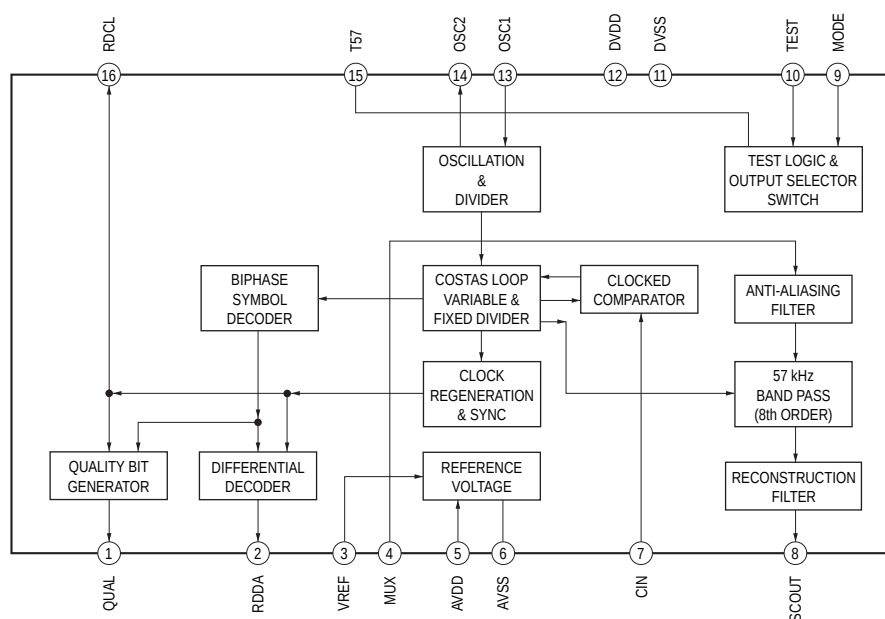
– MAIN Board –
IC301 LA4631-E



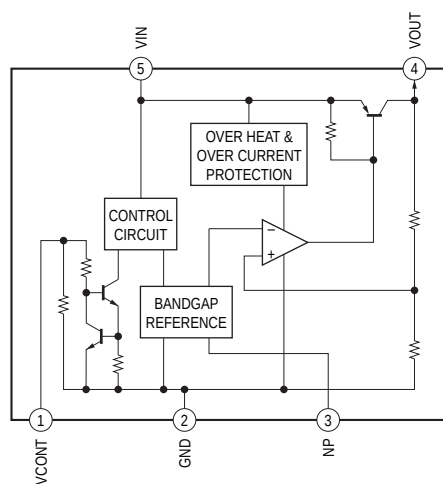
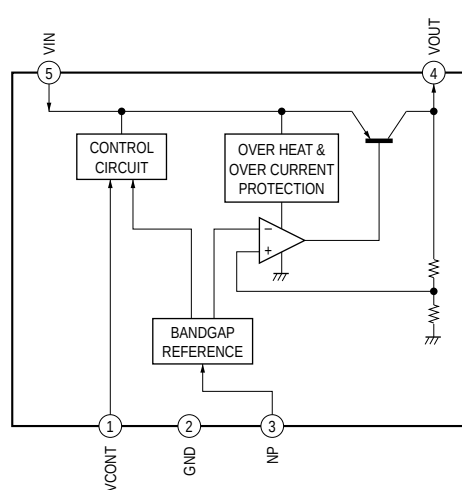
IC401 BD3881FV**IC451, 452 NJM2521M (TE2)**

IC801 LV23003VA

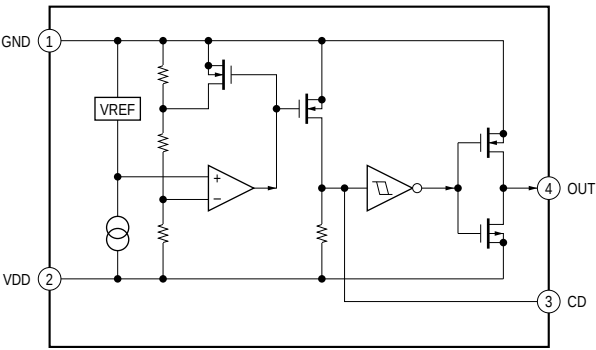


IC861 PT2579SN

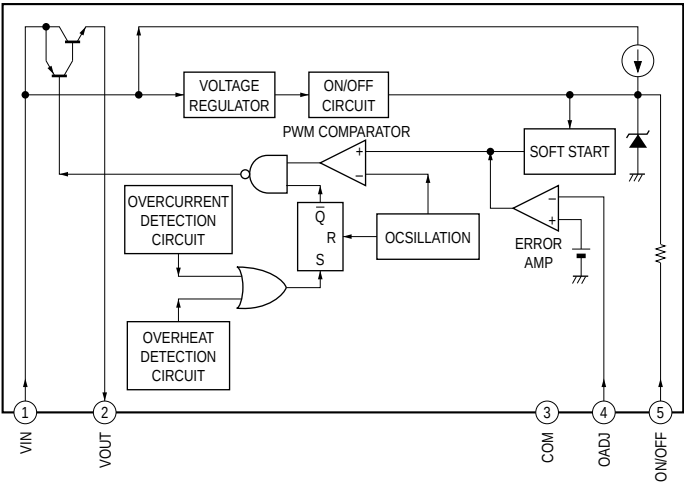
– PANEL Board –
IC706 TK11135CSCL-G

**IC707 TK70533SCL-G**

IC709 PST3542UL



- PT-VBUS Board -
IC901 PQ1CG2032FZ



• IC Pin Function Description

CD BOARD IC101 (CD-MP3 PROCESSOR) TC94A70FG-006

Pin No.	Pin Name	I/O	Description
1	AVSS3	-	Ground terminal
2	RFZi	I	RF ripple zero crossing signal input terminal
3	RFRP	O	RF ripple signal output terminal
4	SBAD/RFDC	O	Sub beam addition signal or RF peak detection signal output terminal Not used
5	FEi	O	Focus error signal output terminal Not used
6	TEi	O	Tracking error signal output terminal
7	TEZi	I	Tracking error zero crossing signal input terminal
8	AVDD3	-	Power supply terminal (+3.3 V)
9	FOo	O	Focus coil drive signal output terminal
10	TRo	O	Tracking coil drive signal output terminal
11	VREF	I	Reference voltage (+1.65V) input terminal
12	FMo	O	Sled motor drive signal output terminal
13	DMo	O	Spindle motor drive signal output terminal
14	VSSP3	-	Ground terminal
15	VCOi	I	VCO control voltage input terminal
16	VDDP3	-	Power supply terminal (+3.3 V)
17	VDD1	-	Power supply terminal (+1.5 V)
18	VSS	-	Ground terminal
19	FGiN	I	FG signal input terminal Not used
20	IO0 (/HSO)	I	Disc inner position detection signal input terminal
21	IO1 (/UHSO)	O	Not used
22	XVSS3	-	Ground terminal
23	XI	I	System clock input terminal (16.9344 MHz)
24	XO	O	System clock output terminal (16.9344 MHz)
25	XVDD3	-	Power supply terminal (+3.3 V)
26	DVSS3	-	Ground terminal
27	RO	O	Audio data (R-ch) output to the input selector
28	DVDD3	-	Power supply terminal (+3.3 V)
29	DVR	O	Reference voltage (+1.65V) output terminal
30	LO	O	Audio data (L-ch) output to the input selector
31	DVSS3	-	Ground terminal
32	VDDT3	-	Power supply terminal (+3.3 V)
33	VSS1	-	Ground terminal
34	VDD1	-	Power supply terminal (+1.5 V)
35	VDDM1	-	Power supply terminal (+1.5 V)
36	SRAMSTB	I	S-RAM standby mode control signal input terminal Fixed at "L" in this set
37	XRST	I	Reset signal input from the system controller "L": reset
38, 39	BUS0, BUS1	I	Serial data input from the system controller
40	BUS2 (SO)	I	Serial data input from the system controller
41	BUS3 (SI)	I	Serial data input from the system controller
42	BUCK (CLK)	I	Serial data transfer clock signal input from the system controller
43	XCCE	I	Chip enable signal input from the system controller
44	TEST	I	Setting terminal for test mode Normally fixed at "L"
45	IRQ	I	Interrupt request signal input terminal Not used
46	AoUT3 (PO4)	O	Request signal output terminal Not used
47	AoUT2 (PO5)	O	Audio data output terminal Not used
48	PIO0	O	Request signal output to the system controller
49, 50	PIO1, PIO2	O	Not used
51	PIO3	I	Gate signal input terminal Not used
52	VSS1	-	Ground terminal
53	VDDT3	-	Power supply terminal (+3.3 V)
54	SBSY	O	Subcode block sync signal output to the system controller
55	SBOK/FOK	O	Not used
56	IPF	O	Not used

Pin No.	Pin Name	I/O	Description
57	SFSY/LOCK	O	Not used
58	ZDET	O	Zero detection signal output terminal Not used
59	GPIN	I	Not used
60	MS	I	Microcomputer interface mode selection signal input terminal Fixed at "H" in this set
61	DOUT (PO6)	O	Digital audio data output terminal Not used
62	AOUT (PO7)	O	Audio data output terminal Not used
63	BCK (PO8)	O	Bit clock signal output terminal Not used
64	LRCK (PO9)	O	L/R sampling clock signal output terminal Not used
65	AIN (PI4)	I	Digital audio data input terminal Not used
66	BCKi (PI5)	I	Bit clock signal input terminal Not used
67	LRCKi (PI6)	I	L/R sampling clock signal input terminal Not used
68	VDD1	-	Power supply terminal (+1.5 V)
69	VSS	-	Ground terminal
70	AWRC	-	Not used
71	PVDD3	-	Power supply terminal (+3.3 V)
72	PDO	O	Phase error margin signal between EFM signal and PLCK signal output terminal
73	TMAXS	O	TMAX detection signal output terminal Not used
74	TMAX	O	TMAX detection signal output terminal
75	LPFN	I	Inverted signal input from the operation amplifier for PLL loop filter
76	LPFo	O	Signal output from the operation amplifier for PLL loop filter
77	PVREF	I	Reference voltage (+1.65V) input terminal
78	VCOF	O	VCO filter output terminal
79	PVSS3	-	Ground terminal
80	SLCo	O	EFM slice level output terminal
81	RFi	I	RF signal input terminal
82	RFRPi	I	RF ripple signal input terminal
83	RFEQo	O	EFM slice level output terminal
84	VRo	O	Reference voltage (+1.65V) output terminal
85	RESIN	O	External resistor connection terminal
86	VMDiR	O	Reference voltage (+1.65V) output terminal for automatic power control circuit
87	TESTR	O	Low-pass filter terminal for RFEQO offset correction
88	AGCi	I	RF signal amplitude adjustment amplification input terminal
89	RFo	O	RF signal generation amplification output terminal
90	RVDD3	-	Power supply terminal (+3.3 V)
91	LDo	O	Laser diode on/off control signal output to the automatic power control circuit "H": laser diode on
92	MDi	I	Light amount monitor input from the laser diode of optical pick-up block
93	RVSS3	-	Ground terminal
94	FNi2 (C)	I	Main beam (C) input from the optical pick-up block
95	FNi1 (A)	I	Main beam (A) input from the optical pick-up block
96	FPi2 (D)	I	Main beam (D) input from the optical pick-up block
97	FPi1 (B)	I	Main beam (B) input from the optical pick-up block
98	TPI (F)	I	Sub beam (F) input from the optical pick-up block
99	TNPC	O	External capacitor connection terminal
100	TNi (E)	I	Sub beam (E) input from the optical pick-up block

USB BOARD IC101 BU9428JKV-E2 (USB CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	RESETX	I	Reset signal input from the system controller "L": reset
2	SEL_SLAVE	I	Mode selection signal input terminal "L": slave mode, "H": stand alone mode Fixed at "L" in this set
3	SEL_MP3	I	MP3 play mode selection signal input terminal "L": MP1, MP2 and MP3 play "H": MP3 play only Fixed at "L" in this set
4	SEL_DOUT	I	Digital/analog output mode selection signal input terminal "L": digital output, "H": analog output Fixed at "L" in this set
5	SEL_VOL	I	Volume control mode selection signal input terminal "L": volume control invalid, "H": volume control valid Fixed at "L" in this set
6	SEL_APLAY	I	Auto play mode on/off control signal input terminal "L": auto play on, "H": auto play off Fixed at "H" in this set
7	SEL_UTPKT	I	USB test packet output on/off control signal input terminal "L": USB test packet output on, "H": USB test packet output off Fixed at "H" in this set
8, 9	TEST1, TEST2	-	Fixed at "H"
10	MCHNG	I	Music change signal input from the system controller
11	BUSY	O	Command operation busy signal output to the system controller
12	SCL	I	I2C clock signal input from the system controller
13	SDA	I/O	Two-way I2C data bus with the system controller
14, 15	A0, A1	I	I2C slave address signal input terminal Fixed at "L" in this set
16	SEL_SMAN	I	Slave mode selection signal input terminal "L": slave mode 3, "H": slave mode 2 Fixed at "H" in this set
17	TEST3	-	Not used
18	DVDDIO	-	Power supply terminal (+3.3V)
19	TEST4	-	Not used
20	NC	-	Not used
21 to 23	TEST6 to TEST8	O	Not used
24	DVSS	-	Ground terminal
25	TEST9	-	Not used
26	CLKOUT12	O	Clock output terminal (12 MHz) Not used
27	DVDD	-	Power supply terminal (+1.5V)
28 to 30	TEST11 to TEST13	-	Not used
31	ATEST1	-	Not used
32	AVDDC	-	Power supply terminal (+3.3V)
33	USB_DM	I/O	Two-way data (minus) bus with the USB connector
34	USB_DP	I/O	Two-way data (plus) bus with the USB connector
35	AVSSC	-	Ground terminal
36	REXTI	I	Connect bias resistor to ground terminal
37	VOREFI	-	Not used
38	VDD_PLL	-	Power supply terminal (+3.3V)
39	TEST_PLL	-	Not used
40	XIN_PLL	I	System clock input terminal (16.9344 MHz)
41	XOUT_PLL	O	System clock output terminal (16.9344 MHz)
42	VSS_PLL	-	Ground terminal
43	DAVSS	-	Ground terminal
44	RDACO	O	Line output terminal (R-ch) Not used
45	VCDACO	O	Reference voltage output terminal Not used
46	LDACO	O	Line output terminal (L-ch) Not used
47	DAVDD	-	Power supply terminal (+3.3V)
48	AMUTE	O	Audio muting control signal output terminal Not used
49 to 52	TEST14 to TEST17	-	Not used
53	LRCK	O	I2S clock signal output to the D/A converter
54	BCK	O	I2S bit clock signal output to the D/A converter
55	DATA	O	I2S data output to the D/A converter
56	TEST18	-	Not used
57	DVDD	-	Power supply terminal (+1.5V)
58 to 61	TEST19 to TEST22	-	Not used
62	DVSS	-	Ground terminal

HCD-EH25/EH26

Pin No.	Pin Name	I/O	Description
63	TMODE	I	Not used
64	DVDDIO	-	Power supply terminal (+3.3V)

PANEL BOARD IC701 MB90F830PF-GE1 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	LED	O	LED drive signal output terminal for liquid crystal display back light "H": LED on
2	CD OPEN/CLOSE	I	CD lid open/close detection switch input terminal "L": CD lid is closed
3	REQ	I	Request signal input from the CD-MP3 processor
4	MMUT	O	Muting signal output to the coil/motor driver
5 to 8	BUS0 to BUS3	O	Serial data output to the CD-MP3 processor
9	RMC	I	Remote control signal input from the remote control receiver
10	BUCK	O	Serial data transfer clock signal output to the CD-MP3 processor
11	XCCEN	O	Chip enable signal output to the CD-MP3 processor
12	XRST	O	Reset signal output to the CD-MP3 processor "L": reset
13	X2	I	Sub system clock input terminal (32768 Hz)
14	X3	O	Sub system clock output terminal (32768 Hz)
15	VCC	-	Power supply terminal (+3.3V)
16	VSS	-	Ground terminal
17	USB_RESET	O	Reset signal output to the USB controller "L": reset
18	MCHING	O	Music change signal output to the USB controller
19	USB_BUSY	I	Command operation busy signal input from the USB controller
20	USB_FLG	I	Flag delay signal input from the VBUS power on/off switch
21	USB_EN	O	Power supply on/off control signal output to the VBUS power on/off switch "H": power on
22	LED_STBY	O	LED drive signal output terminal for STANDBY indicator "L": LED on
23	CD_ON	O	Power supply on/off control signal output terminal for CD section "H": power on
24	USB_REG_ON	O	Power supply on/off control signal output terminal for USB section "H": power on
25	TU_DO	I	Serial data input from the FM/AM tuner
26	RDS_DATA	I	RDS serial data input from the RDS decoder (EH25: AEP, UK/EH26 only)
27 to 29	NC	-	Not used
30	AUDIO_SW	O	CD/USB audio selection signal output to the audio select switch "L": CD, "H": USB
31	NC	-	Not used
32	AVCC	-	Power supply terminal (+3.3V)
33	FUNC_SDA	O	Serial data output to the electrical volume
34	AMP_ON	O	Standby control signal output to the power amplifier "L": standby
35	AVSS	-	Ground terminal
36	P_MONI	I	Power monitor input terminal
37, 38	KEY1, KEY2	I	Front panel key input terminal (A/D input)
39	TU_ASD	I	Auto gain control signal input from the FM/AM tuner
40	TP_STATE	I	REC/PB detection signal input terminal
41	KEY0	I	Power key input terminal
42	HOLD	I	Hold signal input terminal
43	SBSY	I	Subcode block sync signal input from the CD-MP3 processor
44	VSS	-	Ground terminal
45	RDS_CLK	I	RDS serial data transfer clock signal input from the RDS decoder (EH25: AEP, UK/EH26 only)
46	POWER_ON	O	Main power supply on/off control signal output terminal "H": power on
47	SUFFIX	I	Destination setting terminal
48	RE_VOL	I	Jog dial pulse input from the rotary encoder (for VOLUME)
49	USB_SDA	I/O	Two-way I2C data bus with the USB controller
50	USB_SCL	O	I2C clock signal output to the USB controller
51	MD2	I	Mode setting terminal Fixed at "L" in this set
52, 53	MD1, MD0	I	Mode setting terminal Fixed at "H" in this set
54	RESET	I	Reset signal input terminal "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
55	TU_CE	O	Chip enable signal output to the FM/AM tuner
56	TU_CLK	O	Serial data transfer clock signal output to the FM/AM tuner
57	TU_DI	O	Serial data output to the FM/AM tuner
58	V3	-	Terminal for doubler circuit capacitor connection to develop liquid crystal display drive voltage
59 to 62	COM0 to COM3	O	Common drive signal output to the liquid crystal display
63, 64	SEG0, SEG1	O	Segment drive signal output to the liquid crystal display

HCD-EH25/EH26

Pin No.	Pin Name	I/O	Description
65	VCC	-	Power supply terminal (+3.3V)
66	VSS	-	Ground terminal
67 to 89	SEG2 to SEG24	O	Segment drive signal output to the liquid crystal display
90	VCC	-	Power supply terminal (+3.3V)
91	VSS	-	Ground terminal
92	X1	O	Main system clock output terminal (5.53 MHz)
93	X0	I	Main system clock input terminal (5.53 MHz)
94 to 100	SEG25 to SEG31	O	Segment drive signal output to the liquid crystal display

SECTION 8

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

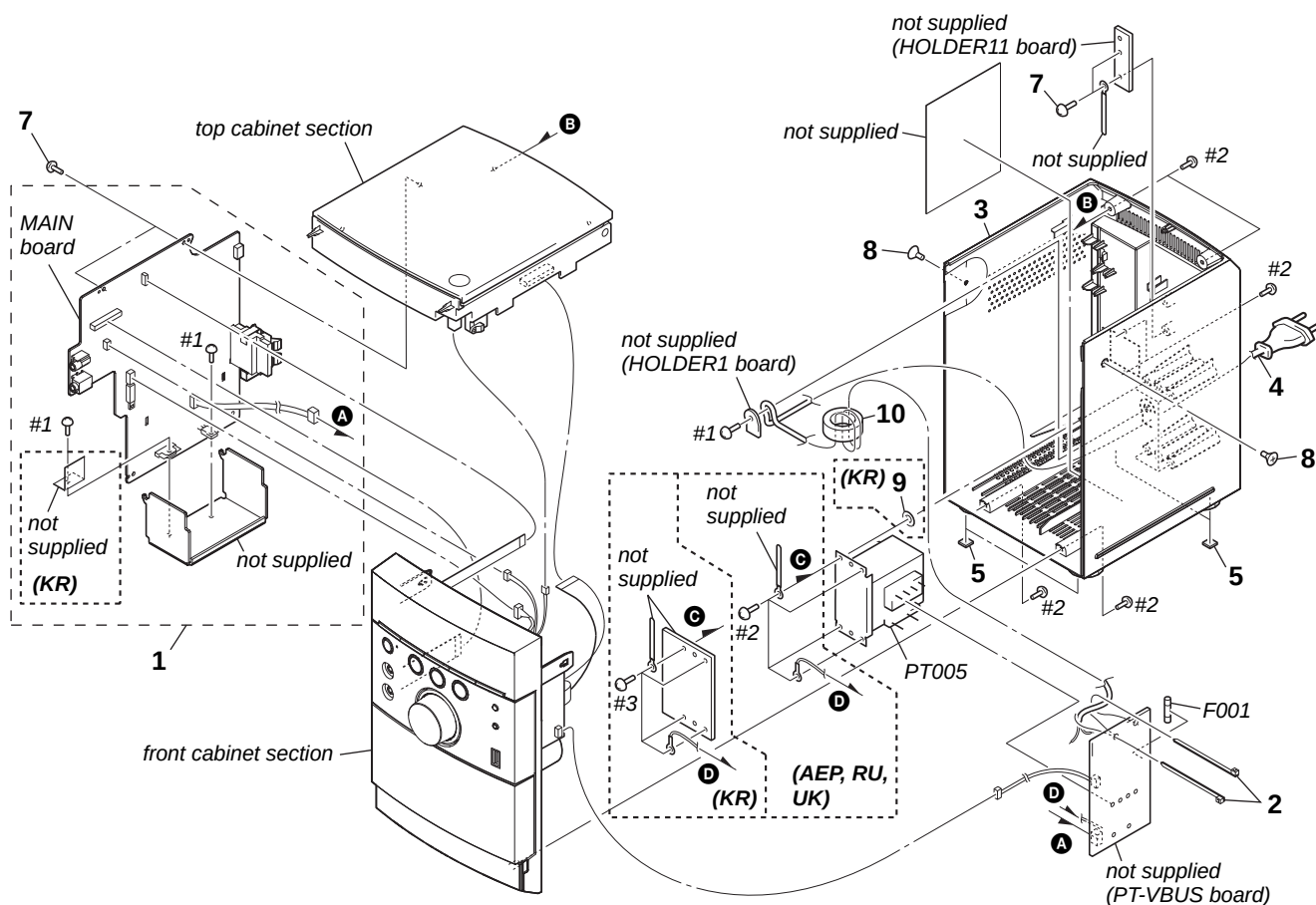
- Abbreviation

KR : Korean model

RU : Russian model

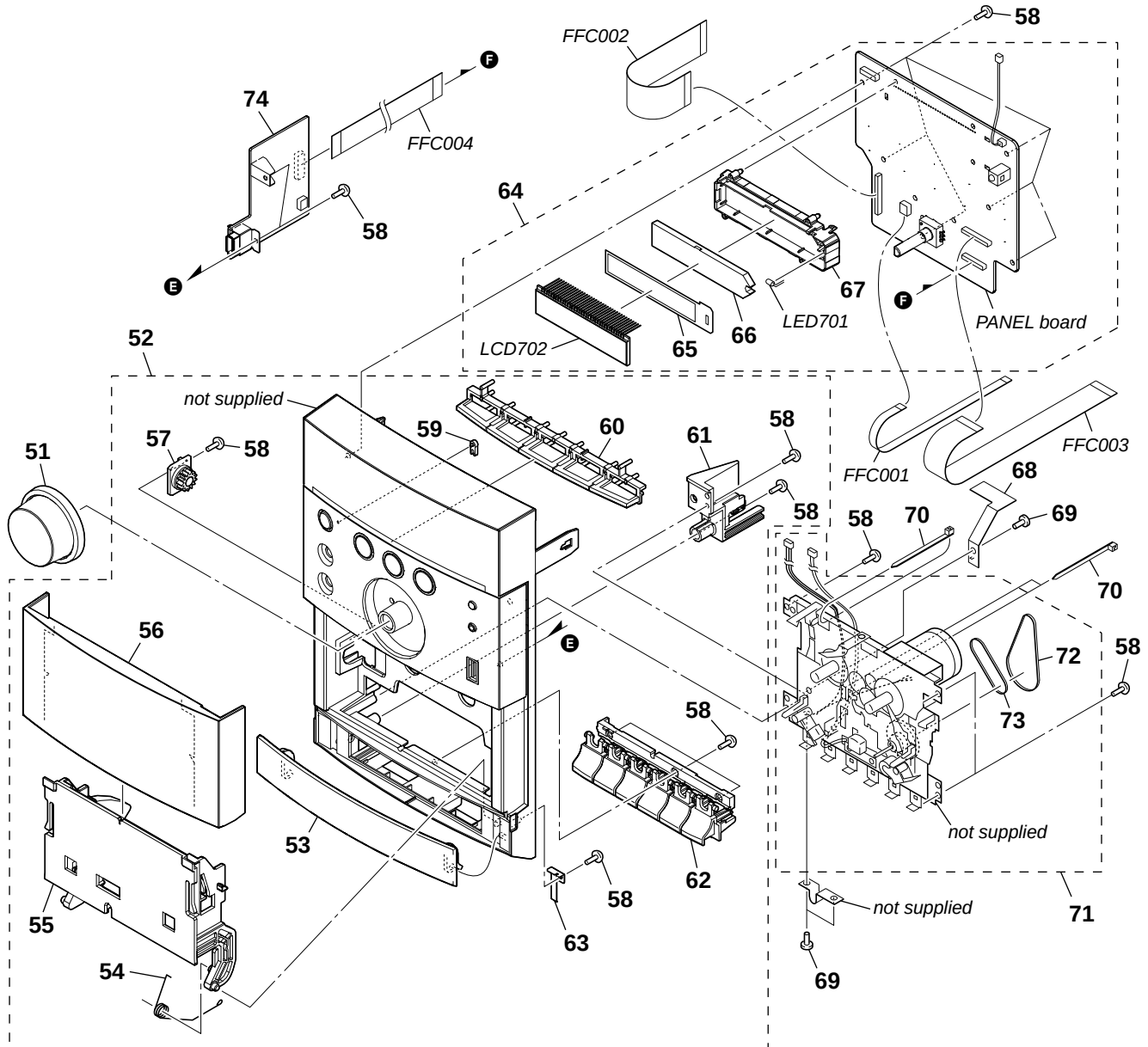
The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

8-1. OVERALL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	A-1544-898-A	MAIN BOARD, COMPLETE (EH25: AEP, UK/EH26)		8	2-580-644-01	SCREW, +KTP2 3X8	
1	A-1544-906-A	MAIN BOARD, COMPLETE (EH25: KR)		9	3-572-085-00	WASHER, FIBER	
1	A-1547-611-A	MAIN BOARD, COMPLETE (EH25: RU)		10	1-500-868-11	CORE, FERRITE	
2	3-701-748-00	CLAMP		$\triangle$ F001	1-532-275-33	FUSE (T160mA/250V)	
3	3-287-571-01	CABINET, REAR		$\triangle$ PT005	1-445-421-11	TRANSFORMER, POWER (KR)	
$\triangle$ 4	1-769-079-51	CORD, POWER (KR)		$\triangle$ PT005	1-445-506-11	TRANSFORMER, POWER (AEP, RU, UK)	
$\triangle$ 4	1-830-891-11	CORD, POWER (RU, UK)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
$\triangle$ 4	1-831-370-11	CORD, POWER (AEP)		#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
5	3-198-753-11	FOOT (FELT)		#3	7-685-649-79	SCREW +BVTP 3X14 TYPE2 IT-3 (KR)	
7	3-087-053-01	+BVTP2.6 (3CR)					

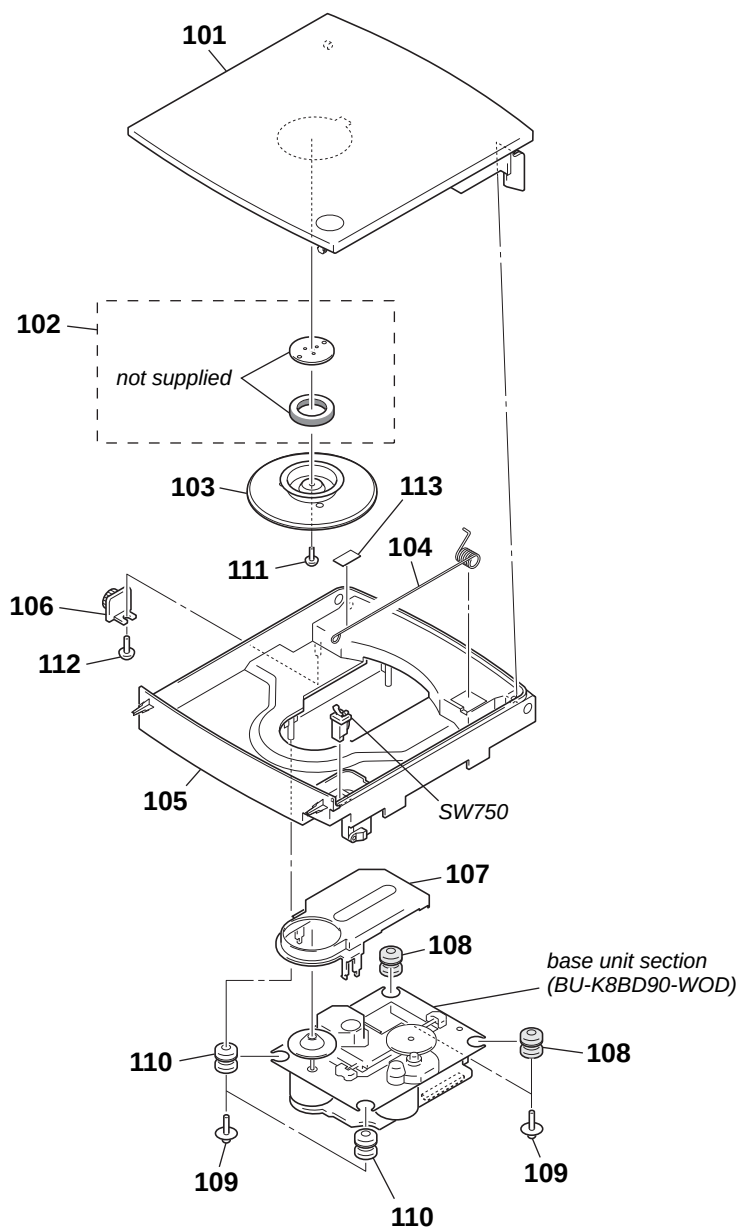
8-2. FRONT CABINET SECTION



Ref. No.	Part No.	Description	Remark
51	3-280-084-01	KNOB (VOL)	
52	A-1544-213-A	CABINET ASSY, FRONT (EH25: AEP, UK)	
52	A-1545-262-A	CABINET ASSY, FRONT (EH26)	
52	A-1545-899-A	CABINET ASSY, FRONT (EH25: KR)	
52	A-1545-958-A	CABINET ASSY, FRONT (EH25: RU)	
53	3-280-079-01	BUTTON COVER (C)	
54	2-637-768-01	SPRING (CASSETTE)	
55	3-288-035-01	HOLDER (CASSETTE)	
56	3-280-077-21	LID, CASSETTE (EH25: AEP, UK)	
56	3-280-077-41	LID, CASSETTE (EH26)	
56	3-280-077-51	LID, CASSETTE (EH25: RU, KR)	
57	3-047-468-01	DAMPER	
58	3-087-053-01	+BVTP2.6 (3CR)	
59	3-280-087-01	LENS (POWER)	
60	3-280-083-01	BUTTON (OPERATION)	
61	2-636-524-01	HOLDER, PWB	
62	3-280-081-01	BUTTON (CASSETTE)	
63	3-280-088-01	SPRING (C-BUTTON LID)	
64	A-1544-901-A	PANEL BOARD, COMPLETE	(EH25: AEP, UK/EH26)
64	A-1544-908-A	PANEL BOARD, COMPLETE (EH25: KR)	

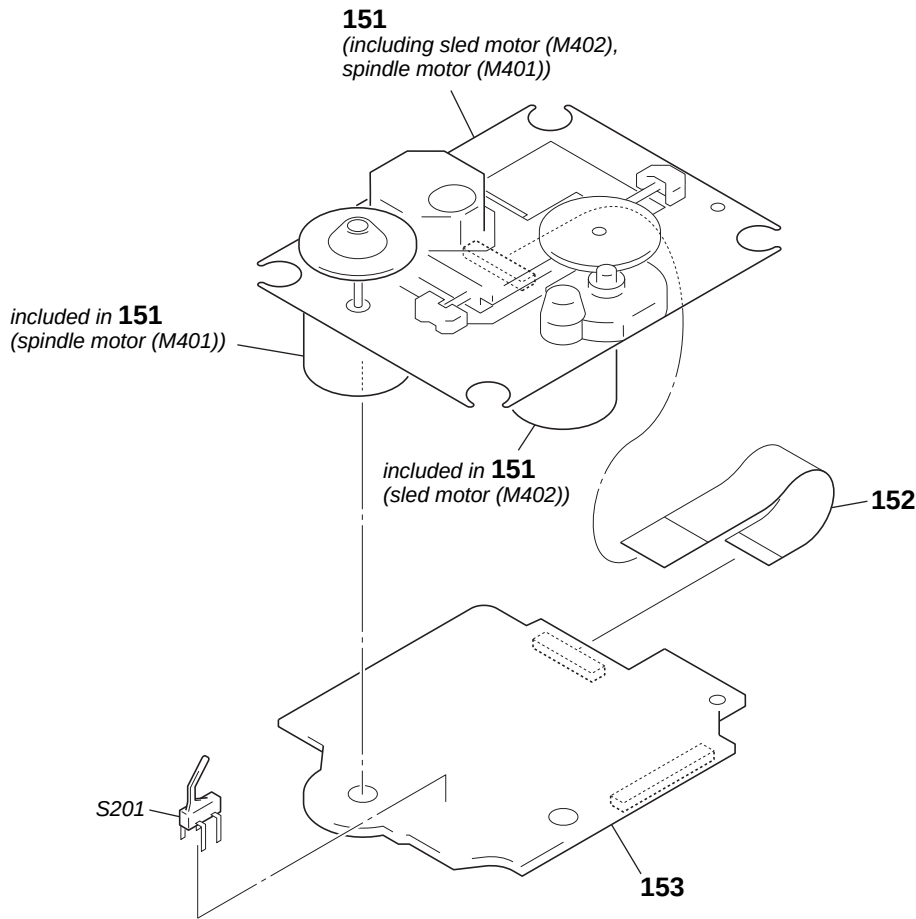
Ref. No.	Part No.	Description	Remark
64	A-1547-613-A	PANEL BOARD, COMPLETE (EH25: RU)	
65	2-636-545-01	SHEET (LCD)	
66	2-636-532-01	ILLUMINATOR (LCD)	
67	2-636-531-01	HOLDER (LCD)	
68	2-636-546-01	LEVER (REC)	
69	3-254-022-01	SCREW	
70	3-701-748-00	CLAMP	
71	A-1313-349-A	MF-EH10 (TAPE MECHANISM DECK)	
72	2-670-389-01	BELT (1)	
73	3-214-817-01	BELT (FR)	
74	A-1527-435-A	USB BOARD, COMPLETE	
FFC001	1-832-796-21	CABLE, FLEXIBLE FLAT (5 CORE)	(EH25: RU, KR)
FFC001	1-832-806-21	CABLE, FLEXIBLE FLAT (7 CORE)	(EH25: AEP, UK/EH26)
FFC002	1-831-952-21	CABLE, FLEXIBLE FLAT (19 CORE)	
FFC003	1-832-748-21	CABLE, FLEXIBLE FLAT (21 CORE)	
FFC004	1-832-706-21	CABLE, FLEXIBLE FLAT (13 CORE)	
LCD702	1-802-381-11	DISPLAY PANEL, LIQUID CRYSTAL	
LED701	6-502-498-01	LED SELU2B10A-SLF62FGH (LCD BACK LIGHT)	

8-3. TOP CABINET SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	2-636-518-31	LID, CD		109	3-252-828-01	SCREW (B2.6), (+) PWH TAPPING	
102	1-452-899-11	MAGNET		110	3-931-379-31	RUBBER, VIBRATION PROOF (GREEN)	
103	3-019-395-01	PLATE, CHUCKING		111	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
104	2-637-769-01	SPRING (CD)		112	3-087-053-01	+BVTP2.6 (3CR)	
105	2-636-515-02	CABINET, TOP		113	2-675-085-01	SPACER	
106	3-047-468-11	DAMPER		SW750	1-692-960-11	SWITCH, PUSH (1 KEY)	(CD LID OPEN/CLOSE DETECT)
107	4-247-493-01	COVER, CD					
108	3-931-379-21	RUBBER, VIBRATION PROOF (RED)					

8-4. BASE UNIT SECTION (BU-K8BD90-WOD)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
△ 151	8-820-126-02	OPTICAL PICK-UP BLOCK (KSM-213CDP/C2NP) (Including spindle motor (M401), sled motor (M402))		153	A-1217-914-A	CD BOARD, COMPLETE	
152	1-834-268-21	WIRE (FLAT TYPE) (16 CORE)		S201	1-771-853-11	SWITCH, DETECTION (LIMIT)	

SECTION 9

ELECTRICAL PARTS LIST

CD

Note:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
uF: μ F
- COILS
uH: μ H

- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . . : μ A. . . , uPA. . . , μ PA. . . ,
uPB. . . : μ PB. . . , uPC. . . , μ PC. . . ,
uPD. . . : μ PD. . .
- Abbreviation
KR : Korean model
RU : Russian model

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

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
	A-1217-914-A	CD BOARD, COMPLETE *****		C148	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
		< CAPACITOR >		C149	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C100	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C150	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C101	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C151	1-164-315-11	CERAMIC CHIP 470PF	5% 50V
C102	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C152	1-164-315-11	CERAMIC CHIP 470PF	5% 50V
C103	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C153	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C104	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C201	1-128-995-21	ELECT CHIP 100uF	20% 10V
C105	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C202	1-128-995-21	ELECT CHIP 100uF	20% 10V
C106	1-128-995-21	ELECT CHIP 100uF	20% 10V	C204	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C107	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C205	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C108	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C206	1-165-908-11	CERAMIC CHIP 1uF	10% 10V
C109	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C207	1-165-908-11	CERAMIC CHIP 1uF	10% 10V
C110	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C301	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C112	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C302	1-137-710-91	CERAMIC CHIP 10uF	20% 6.3V
C113	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C303	1-137-710-91	CERAMIC CHIP 10uF	20% 6.3V
C115	1-124-778-00	ELECT CHIP 22uF	20% 6.3V	C306	1-128-995-21	ELECT CHIP 100uF	20% 10V
C116	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C307	1-165-908-11	CERAMIC CHIP 1uF	10% 10V
C117	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V	C309	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C118	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C401	1-128-394-11	ELECT CHIP 220uF	20% 10V
C119	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V	C403	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C120	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C404	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C122	1-164-315-11	CERAMIC CHIP 470PF	5% 50V	C405	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C123	1-164-315-11	CERAMIC CHIP 470PF	5% 50V			< CONNECTOR >	
C124	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V	CN201	1-784-833-51	CONNECTOR, FFC (LIF (NON-ZIF)) 21P	
C125	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V	CN301	1-770-425-51	CONNECTOR, FFC/FPC 16P	
C126	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V			< IC >	
C127	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V	IC101	6-709-624-01	IC TC94A70FG-006	
C128	1-162-910-11	CERAMIC CHIP 5PF	0.25PF 50V	IC201	6-710-808-01	IC TK63115SCL-G@GT	
C130	1-162-910-11	CERAMIC CHIP 5PF	0.25PF 50V	IC401	6-710-637-01	IC BA5826SFP-E2	
C132	1-164-360-11	CERAMIC CHIP 0.1uF	16V			< TRANSISTOR >	
C133	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	Q301	6-551-120-01	TRANSISTOR 2SA2119K	
C136	1-162-923-11	CERAMIC CHIP 47PF	5% 50V			< RESISTOR >	
C137	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	R101	1-216-813-11	METAL CHIP 220	5% 1/10W
C138	1-164-315-11	CERAMIC CHIP 470PF	5% 50V	R102	1-216-833-11	METAL CHIP 10K	5% 1/10W
C139	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	R104	1-216-295-91	SHORT CHIP 0	
C140	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	R105	1-216-857-11	METAL CHIP 1M	5% 1/10W
C141	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V	R106	1-216-821-11	METAL CHIP 1K	5% 1/10W
C142	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	R108	1-216-864-11	SHORT CHIP 0	
C143	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	R110	1-216-833-11	METAL CHIP 10K	5% 1/10W
C144	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	R111	1-216-809-11	METAL CHIP 100	5% 1/10W
C145	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	R112	1-216-809-11	METAL CHIP 100	5% 1/10W
C146	1-164-315-11	CERAMIC CHIP 470PF	5% 50V				
C147	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V				

HCD-EH25/EH26

CD MAIN

Ref. No.	Part No.	Description			Remark
R113	1-216-833-11	METAL CHIP	10K	5%	1/10W
R114	1-216-833-11	METAL CHIP	10K	5%	1/10W
R118	1-216-845-11	METAL CHIP	100K	5%	1/10W
R120	1-216-864-11	SHORT CHIP	0		
R125	1-216-864-11	SHORT CHIP	0		
R126	1-216-864-11	SHORT CHIP	0		
R127	1-216-864-11	SHORT CHIP	0		
R128	1-216-853-11	METAL CHIP	470K	5%	1/10W
R129	1-216-821-11	METAL CHIP	1K	5%	1/10W
R130	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R134	1-216-857-11	METAL CHIP	1M	5%	1/10W
R135	1-216-853-11	METAL CHIP	470K	5%	1/10W
R136	1-216-837-11	METAL CHIP	22K	5%	1/10W
R139	1-216-841-11	METAL CHIP	47K	5%	1/10W
R140	1-216-864-11	SHORT CHIP	0		
R142	1-216-837-11	METAL CHIP	22K	5%	1/10W
R143	1-216-841-11	METAL CHIP	47K	5%	1/10W
R144	1-216-837-11	METAL CHIP	22K	5%	1/10W
R145	1-216-864-11	SHORT CHIP	0		
R146	1-216-864-11	SHORT CHIP	0		
R147	1-216-864-11	SHORT CHIP	0		
R148	1-216-864-11	SHORT CHIP	0		
R149	1-216-864-11	SHORT CHIP	0		
R150	1-216-864-11	SHORT CHIP	0		
R151	1-216-864-11	SHORT CHIP	0		
R153	1-216-857-11	METAL CHIP	1M	5%	1/10W
R154	1-216-857-11	METAL CHIP	1M	5%	1/10W
R155	1-216-805-11	METAL CHIP	47	5%	1/10W
R156	1-216-809-11	METAL CHIP	100	5%	1/10W
R157	1-216-809-11	METAL CHIP	100	5%	1/10W
R201	1-216-295-91	SHORT CHIP	0		
R202	1-216-295-91	SHORT CHIP	0		
R203	1-216-809-11	METAL CHIP	100	5%	1/10W
R204	1-216-809-11	METAL CHIP	100	5%	1/10W
R205	1-216-809-11	METAL CHIP	100	5%	1/10W
R206	1-216-809-11	METAL CHIP	100	5%	1/10W
R207	1-216-809-11	METAL CHIP	100	5%	1/10W
R208	1-216-809-11	METAL CHIP	100	5%	1/10W
R209	1-216-809-11	METAL CHIP	100	5%	1/10W
R210	1-216-809-11	METAL CHIP	100	5%	1/10W
R211	1-216-809-11	METAL CHIP	100	5%	1/10W
R212	1-216-809-11	METAL CHIP	100	5%	1/10W
R218	1-216-845-11	METAL CHIP	100K	5%	1/10W
R219	1-216-845-11	METAL CHIP	100K	5%	1/10W
R220	1-216-845-11	METAL CHIP	100K	5%	1/10W
R221	1-216-845-11	METAL CHIP	100K	5%	1/10W
R222	1-216-845-11	METAL CHIP	100K	5%	1/10W
R223	1-216-845-11	METAL CHIP	100K	5%	1/10W
R301	1-216-845-11	METAL CHIP	100K	5%	1/10W
R302	1-216-864-11	SHORT CHIP	0		
R303	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R304	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R402	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R405	1-216-833-11	METAL CHIP	10K	5%	1/10W
R408	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R414	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R415	1-216-841-11	METAL CHIP	47K	5%	1/10W

Ref. No.	Part No.	Description	Remark		
		< VIBRATOR >			
X102	1-795-101-21	VIBRATOR, CERAMIC (16.9344MHz)			

	A-1544-898-A	MAIN BOARD, COMPLETE (EH25: AEP, UK/EH26)			
	A-1544-906-A	MAIN BOARD, COMPLETE (EH25: KR)			
	A-1547-611-A	MAIN BOARD, COMPLETE (EH25: RU)			

	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< BAND PASS FILTER >			
BPF801	1-236-711-21	FILTER, BAND PASS			
		< CAPACITOR/JUMPER RESISTOR >			
C101	1-128-549-11	ELECT	3300uF	20%	35V
C102	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C105	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
		(EH25: AEP, RU, UK/EH26)			
C105	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
		(EH25: KR)			
C109	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C110	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C111	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C113	1-126-953-11	ELECT	2200uF	20%	35V
C114	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C115	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C118	1-126-933-11	ELECT	100uF	20%	16V
C121	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C122	1-126-949-11	ELECT	220uF	20%	35V
C141	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C142	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C155	1-165-621-91	CERAMIC CHIP	0.1uF		50V
C156	1-165-621-91	CERAMIC CHIP	0.1uF		50V
C181	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C182	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C183	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C184	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C194	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C196	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C301	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C302	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C303	1-126-963-11	ELECT	4.7uF	20%	50V
C304	1-126-933-11	ELECT	100uF	20%	16V
C305	1-126-960-11	ELECT	1uF	20%	50V
C306	1-126-960-11	ELECT	1uF	20%	50V
C307	1-126-767-11	ELECT	1000uF	20%	16V
C308	1-126-767-11	ELECT	1000uF	20%	16V
C309	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C310	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C311	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C312	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C315	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C371	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C381	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C382	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C401	1-126-956-91	ELECT	0.1uF	20%	50V
C402	1-126-933-11	ELECT	100uF	20%	16V
C403	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C404	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C405	1-126-956-91	ELECT	0.1uF	20%	50V

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C406	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C801	1-126-933-11	ELECT	100uF	20%	16V
C407	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C802	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C408	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C803	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C409	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C804	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C410	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C806	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C412	1-126-933-11	ELECT	100uF	20%	16V	C807	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C413	1-126-933-11	ELECT	100uF	20%	16V	C809	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C415	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C810	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C416	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C811	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C421	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C812	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C431	1-126-960-11	ELECT	1uF	20%	50V	C813	1-126-923-91	ELECT	220uF	20%	10V
C432	1-126-960-11	ELECT	1uF	20%	50V	C814	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C433	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C815	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C434	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C816	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C437	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C817	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C438	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C818	1-216-864-11	SHORT CHIP	0		
C451	1-126-960-11	ELECT	1uF	20%	50V	C819	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C452	1-126-960-11	ELECT	1uF	20%	50V	C820	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C453	1-126-960-11	ELECT	1uF	20%	50V	C821	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C454	1-126-960-11	ELECT	1uF	20%	50V	C822	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C455	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C823	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C456	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C824	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C457	1-126-933-11	ELECT	100uF	20%	16V	C825	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C458	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C826	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C501	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C827	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C502	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C828	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C503	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C829	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C504	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C830	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C505	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	C831	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C506	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	C832	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C507	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C833	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C508	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C834	1-126-923-91	ELECT	220uF	20%	10V
C509	1-126-966-11	ELECT	33uF	20%	50V	C835	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C510	1-126-966-11	ELECT	33uF	20%	50V	C836	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C513	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	C838	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C514	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	C839	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C515	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	C840	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C518	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C841	1-126-965-91	ELECT	22uF	20%	50V
C519	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C843	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C522	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						(EH25: KR)
C523	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C847	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C524	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C848	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C525	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C851	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C526	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C852	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C527	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C853	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C528	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C854	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C529	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C855	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C531	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C856	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C532	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C861	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C533	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V						(EH25: AEP, UK/EH26)
C534	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C862	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C535	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V						(EH25: AEP, UK/EH26)
C543	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C863	1-126-965-91	ELECT	22uF	20%	50V
C544	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V						(EH25: AEP, UK/EH26)
C561	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C864	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C562	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V						(EH25: AEP, UK/EH26)
C564	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C865	1-126-965-91	ELECT	22uF	20%	50V
C565	1-115-156-11	CERAMIC CHIP	1uF		10V						(EH25: AEP, UK/EH26)
C567	1-130-479-00	MYLAR	0.0047uF	5%	50V	C866	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C800	1-164-156-11	CERAMIC CHIP	0.1uF		25V						(EH25: AEP, UK/EH26)

HCD-EH25/EH26

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C867	1-162-962-11	CERAMIC CHIP	470PF	10%	50V			< JUMPER RESISTOR >			
C868	1-162-925-11	CERAMIC CHIP	68PF	5%	50V						
C869	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	JR101	1-216-864-11	SHORT CHIP	0	(EH25: KR)	
					(EH25: AEP, UK/EH26)	JR106	1-216-864-11	SHORT CHIP	0	(EH25: AEP, UK/EH26)	
					(EH25: AEP, UK/EH26)	JR107	1-216-864-11	SHORT CHIP	0	(EH25: RU)	
						JR401	1-216-864-11	SHORT CHIP	0		
C873	1-162-907-11	CERAMIC CHIP	2PF	0.25PF	50V	JR402	1-216-864-11	SHORT CHIP	0		
		< FILTER/CAPACITOR >				JR403	1-216-864-11	SHORT CHIP	0		
						JR404	1-216-864-11	SHORT CHIP	0		
CF801	1-795-426-11	FILTER, CERAMIC				JR405	1-216-864-11	SHORT CHIP	0		
CF802	1-128-821-51	CERAMIC	1000PF	5%	50V	JR406	1-216-864-11	SHORT CHIP	0		
					(EH25: KR)	JR801	1-216-864-11	SHORT CHIP	0		
CF802	1-579-554-21	FILTER, CERAMIC	(EH25: AEP, RU, UK/EH26)								
CF803	1-781-962-21	FILTER, CERAMIC				JR802	1-216-864-11	SHORT CHIP	0		
		< CONNECTOR >				JR803	1-216-864-11	SHORT CHIP	0		
						JR804	1-216-864-11	SHORT CHIP	0	(EH25: AEP, UK/EH26)	
CN105	1-784-780-11	CONNECTOR, FFC 19P				JR861	1-216-864-11	SHORT CHIP	0	(EH25: AEP, UK/EH26)	
CN106	1-784-766-11	CONNECTOR, FFC 5P	(EH25: RU, KR)					< COIL >			
CN106	1-568-826-11	CONNECTOR, FFC 7P	(EH25: AEP, UK/EH26)								
CNP501	1-815-445-11	PIN, CONNECTOR (PWB) 4P				L103	1-469-152-11	FERRITE, EMI (SMD) (2012)			
CNP502	1-815-444-11	PIN, CONNECTOR (PWB) 3P				L104	1-410-509-11	INDUCTOR	10uH		
						L501	1-456-094-11	TRANSFORMER, BIAS OSCILLATION			
* CNP802	1-506-680-11	PLUG, CONNECTOR (2.5mm) 3P	(ANTENNA FM/AM)			L803	1-433-741-11	TRANSFORMER, IF			
						L804	1-457-163-22	COIL, AIR-CORE			
		< DIODE >				L805	1-457-162-22	COIL, AIR-CORE			
						L806	1-457-168-11	COIL, DET			
D106	6-501-172-01	DIODE	UDZW-TE17-8.2B			L851	1-457-161-11	COIL, AM ANTENNA			
D107	6-502-411-01	DIODE	RL202-B322-1			L852	1-456-596-11	COIL, MW OSC			
D108	6-502-411-01	DIODE	RL202-B322-1					< CONNECTOR >			
D109	6-502-411-01	DIODE	RL202-B322-1								
D110	6-502-411-01	DIODE	RL202-B322-1			* PIN101	1-564-187-00	PIN, CONNECTOR			
D111	6-501-582-01	DIODE	1N4002-B5			* PIN102	1-564-187-00	PIN, CONNECTOR			
D113	6-501-582-01	DIODE	1N4002-B5					< TRANSISTOR >			
D116	6-501-582-01	DIODE	1N4002-B5								
D117	6-501-582-01	DIODE	1N4002-B5								
D118	6-501-582-01	DIODE	1N4002-B5			Q101	8-729-024-93	TRANSISTOR	2SB1565E		
					Q102	8-729-120-28	TRANSISTOR	2SC1623-L5L6			
D131	6-500-334-01	DIODE	MC2836-T112-1			Q103	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
D371	6-500-335-01	DIODE	MC2838-T112-1			Q121	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
D372	6-500-335-01	DIODE	MC2838-T112-1			Q122	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
D802	6-501-369-01	DIODE	SVC230-TB-E								
D803	6-501-369-01	DIODE	SVC230-TB-E			Q123	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
					Q351	6-551-703-01	FET	2SJ599-ZK-E1-AZ			
D812	6-501-579-01	DIODE	MC2837			Q352	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
D813	6-501-579-01	DIODE	MC2837			Q371	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
D815	6-501-579-01	DIODE	MC2837			Q372	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
D851	6-501-142-01	DIODE	SVC347A-TL-E								
		< FERRITE BEAD >				Q507	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
						Q801	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
FB101	1-469-152-11	FERRITE, EMI (SMD) (2012)				Q802	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
		< IC >				Q803	6-550-304-01	TRANSISTOR	2SC5477-T122-1		
						Q861	8-729-120-28	TRANSISTOR	2SC1623-L5L6	(EH25: AEP, UK/EH26)	
IC301	6-706-641-01	IC	LA4631-E								
IC401	6-702-895-01	IC	BD3881FV			Q862	8-729-120-28	TRANSISTOR	2SC1623-L5L6	(EH25: AEP, UK/EH26)	
IC451	8-759-526-64	IC	NJM2521M (TE2)					< RESISTOR >			
IC452	8-759-526-64	IC	NJM2521M (TE2)								
IC801	6-708-840-01	IC	LV23003VA								
IC861	6-708-918-01	IC	PT2579SN (EH25: AEP, UK/EH26)			R101	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< TERMINAL BOARD/JACK >				R102	1-216-809-11	METAL CHIP	100	5%	1/10W
						R103	1-216-841-11	METAL CHIP	47K	5%	1/10W
J101	1-780-314-11	TERMINAL BOARD (SPEAKER)				R104	1-216-845-11	METAL CHIP	100K	5%	1/10W
J102	1-815-629-11	JACK (PHONES)				R105	1-216-845-11	METAL CHIP	100K	5%	1/10W
J105	1-566-822-51	JACK (AUDIO IN)				R106	1-216-837-11	METAL CHIP	22K	5%	1/10W
						R107	1-216-817-11	METAL CHIP	470	5%	1/10W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R108	1-216-809-11	METAL CHIP	100	5%	1/10W	R383	1-216-833-11	METAL CHIP	10K	5%	1/10W
R109	1-216-817-11	METAL CHIP	470	5%	1/10W	R384	1-216-821-11	METAL CHIP	1K	5%	1/10W
R110	1-216-845-11	METAL CHIP	100K	5%	1/10W	R402	1-216-809-11	METAL CHIP	100	5%	1/10W
R111	1-216-853-11	METAL CHIP	470K	5%	1/10W	R403	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R112	1-216-853-11	METAL CHIP	470K	5%	1/10W	R405	1-216-864-11	SHORT CHIP	0		
R115	1-249-409-11	CARBON	220	5%	1/4W	R406	1-216-821-11	METAL CHIP	1K	5%	1/10W
R116	1-249-409-11	CARBON	220	5%	1/4W	R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R117	1-249-409-11	CARBON	220	5%	1/4W	R410	1-216-845-11	METAL CHIP	100K	5%	1/10W
R118	1-249-409-11	CARBON	220	5%	1/4W	R411	1-216-821-11	METAL CHIP	1K	5%	1/10W
R119	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R412	1-216-813-11	METAL CHIP	220	5%	1/10W
R120	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R423	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R121	1-216-849-11	METAL CHIP	220K	5%	1/10W	R424	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R123	1-216-853-11	METAL CHIP	470K	5%	1/10W	R425	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R124	1-216-809-11	METAL CHIP	100	5%	1/10W	R426	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R125	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R427	1-216-845-11	METAL CHIP	100K	5%	1/10W
R126	1-216-841-11	METAL CHIP	47K	5%	1/10W	R428	1-216-845-11	METAL CHIP	100K	5%	1/10W
R127	1-216-841-11	METAL CHIP	47K	5%	1/10W	R429	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R128	1-216-813-11	METAL CHIP	220	5%	1/10W	R430	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R129	1-216-813-11	METAL CHIP	220	5%	1/10W	R433	1-216-837-11	METAL CHIP	22K	5%	1/10W
R130	1-216-813-11	METAL CHIP	220	5%	1/10W	R434	1-216-837-11	METAL CHIP	22K	5%	1/10W
R131	1-216-813-11	METAL CHIP	220	5%	1/10W	R439	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R151	1-216-833-11	METAL CHIP	10K	5%	1/10W	R440	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R152	1-216-833-11	METAL CHIP	10K	5%	1/10W	R441	1-216-844-11	METAL CHIP	82K	5%	1/10W
R153	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R442	1-216-844-11	METAL CHIP	82K	5%	1/10W
R154	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R451	1-216-833-11	METAL CHIP	10K	5%	1/10W
R155	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R452	1-216-833-11	METAL CHIP	10K	5%	1/10W
R156	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R453	1-216-809-11	METAL CHIP	100	5%	1/10W
R175	1-216-845-11	METAL CHIP	100K	5%	1/10W	R501	1-216-809-11	METAL CHIP	100	5%	1/10W
R176	1-216-845-11	METAL CHIP	100K	5%	1/10W	R502	1-216-809-11	METAL CHIP	100	5%	1/10W
R181	1-216-797-11	METAL CHIP	10	5%	1/10W	R503	1-216-835-11	METAL CHIP	15K	5%	1/10W
R182	1-216-797-11	METAL CHIP	10	5%	1/10W	R504	1-216-835-11	METAL CHIP	15K	5%	1/10W
R301	1-216-837-11	METAL CHIP	22K	5%	1/10W	R507	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R302	1-216-837-11	METAL CHIP	22K	5%	1/10W	R508	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R303	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R509	1-216-852-11	METAL CHIP	390K	5%	1/10W
R304	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R510	1-216-852-11	METAL CHIP	390K	5%	1/10W
R305	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R513	1-216-811-11	METAL CHIP	150	5%	1/10W
R306	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R514	1-216-811-11	METAL CHIP	150	5%	1/10W
R307	1-216-837-11	METAL CHIP	22K	5%	1/10W	R517	1-216-845-11	METAL CHIP	100K	5%	1/10W
R308	1-216-837-11	METAL CHIP	22K	5%	1/10W	R518	1-216-845-11	METAL CHIP	100K	5%	1/10W
R339	1-216-809-11	METAL CHIP	100	5%	1/10W	R519	1-216-841-11	METAL CHIP	47K	5%	1/10W
R340	1-216-809-11	METAL CHIP	100	5%	1/10W	R520	1-216-841-11	METAL CHIP	47K	5%	1/10W
R351	1-216-833-11	METAL CHIP	10K	5%	1/10W	R521	1-216-837-11	METAL CHIP	22K	5%	1/10W
R352	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R522	1-216-837-11	METAL CHIP	22K	5%	1/10W
R353	1-216-833-11	METAL CHIP	10K	5%	1/10W	R523	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R354	1-216-833-11	METAL CHIP	10K	5%	1/10W	R524	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R355	1-216-833-11	METAL CHIP	10K	5%	1/10W	R527	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R356	1-216-837-11	METAL CHIP	22K	5%	1/10W	R528	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R365	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R529	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R371	1-218-446-11	METAL CHIP	1	5%	1/10W	R530	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R372	1-218-446-11	METAL CHIP	1	5%	1/10W	R531	1-216-835-11	METAL CHIP	15K	5%	1/10W
R373	1-218-446-11	METAL CHIP	1	5%	1/10W	R532	1-216-835-11	METAL CHIP	15K	5%	1/10W
R374	1-218-446-11	METAL CHIP	1	5%	1/10W	R535	1-216-813-11	METAL CHIP	220	5%	1/10W
R375	1-218-446-11	METAL CHIP	1	5%	1/10W	R536	1-216-813-11	METAL CHIP	220	5%	1/10W
R376	1-218-446-11	METAL CHIP	1	5%	1/10W	R541	1-216-837-11	METAL CHIP	22K	5%	1/10W
R377	1-218-446-11	METAL CHIP	1	5%	1/10W	R542	1-216-835-11	METAL CHIP	15K	5%	1/10W
R378	1-218-446-11	METAL CHIP	1	5%	1/10W	R543	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R379	1-218-446-11	METAL CHIP	1	5%	1/10W	R544	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R380	1-218-446-11	METAL CHIP	1	5%	1/10W	R560	1-216-821-11	METAL CHIP	1K	5%	1/10W
R381	1-216-833-11	METAL CHIP	10K	5%	1/10W	R561	1-216-837-11	METAL CHIP	22K	5%	1/10W
R382	1-216-833-11	METAL CHIP	10K	5%	1/10W	R564	1-216-793-11	METAL CHIP	4.7	5%	1/10W

HCD-EH25/EH26

MAIN

PANEL

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark				
R565	1-216-793-11	METAL CHIP	4.7	5%	1/10W	R859	1-216-837-11	METAL CHIP	22K	5%	1/10W		
R801	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R860	1-216-821-11	METAL CHIP	1K	5%	(EH25: KR)		
R802	1-216-797-11	METAL CHIP	10	5%	1/10W						1/10W		
R803	1-216-797-11	METAL CHIP	10	5%	1/10W	(EH25: AEP, RU, UK/EH26)							
R804	1-216-864-11	SHORT CHIP	0			R860	1-216-837-11	METAL CHIP	22K	5%	1/10W		
R805	1-216-845-11	METAL CHIP	100K	5%	1/10W	R861	1-216-833-11	METAL CHIP	10K	5%	(EH25: KR)		
R806	1-216-864-11	SHORT CHIP	0								5% 1/10W		
R807	1-216-845-11	METAL CHIP	100K	5%	1/10W	(EH25: AEP, UK/EH26)							
R808	1-216-833-11	METAL CHIP	10K	5%	1/10W	R863	1-216-837-11	METAL CHIP	22K	5%	1/10W		
R809	1-216-821-11	METAL CHIP	1K	5%	1/10W	R864	1-216-833-11	METAL CHIP	10K	5%	1/10W		
R810	1-216-857-11	METAL CHIP	1M	5%	1/10W	R866	1-216-833-11	METAL CHIP	10K	5%	(EH25: AEP, UK/EH26)		
R811	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						5% 1/10W		
R812	1-216-817-11	METAL CHIP	470	5%	1/10W	(EH25: AEP, UK/EH26)							
R813	1-216-833-11	METAL CHIP	10K	5%	1/10W	R867	1-216-833-11	METAL CHIP	10K	5%	1/10W		
R814	1-216-809-11	METAL CHIP	100	5%	1/10W	R868	1-216-833-11	METAL CHIP	10K	5%	(EH25: AEP, UK/EH26)		
R815	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						5% 1/10W		
R816	1-216-833-11	METAL CHIP	10K	5%	1/10W	R869					1-216-833-11	METAL CHIP	10K
R817	1-216-833-11	METAL CHIP	10K	5%	1/10W	R870	1-216-853-11	METAL CHIP	470K	5%	(EH25: AEP, UK/EH26)		
R818	1-216-841-11	METAL CHIP	47K	5%	1/10W						5% 1/10W		
R819	1-216-841-11	METAL CHIP	47K	5%	1/10W	R871					1-216-849-11	METAL CHIP	220K
R820	1-216-833-11	METAL CHIP	10K	5%	1/10W	R872	1-216-813-11	METAL CHIP	220	5%	(EH25: AEP, UK/EH26)		
R821	1-216-813-11	METAL CHIP	220	5%	1/10W						5% 1/10W		
R822	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R873					1-216-825-11	METAL CHIP	2.2K
R823	1-216-809-11	METAL CHIP	100	5%	1/10W	R874	1-216-845-11	METAL CHIP	100K	5%	(EH25: AEP, UK/EH26)		
R824	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						5% 1/10W		
R825	1-216-817-11	METAL CHIP	470	5%	1/10W	R875					1-216-845-11	METAL CHIP	100K
R826	1-216-809-11	METAL CHIP	100	5%	1/10W	R876	1-216-841-11	METAL CHIP	47K	5%	(EH25: AEP, UK/EH26)		
R827	1-216-809-11	METAL CHIP	100	5%	1/10W						5% 1/10W		
R828	1-216-801-11	METAL CHIP	22	5%	1/10W	(EH25: AEP, UK/EH26)							
R828	1-216-805-11	METAL CHIP	47	5%	1/10W	< SWITCH >							
R829	1-216-845-11	METAL CHIP	100K	5%	1/10W	< VIBRATOR >							
R830	1-216-841-11	METAL CHIP	47K	5%	1/10W	SW501	1-762-369-11	SWITCH, SLIDE (REC/PB)					
R831	1-216-813-11	METAL CHIP	220	5%	1/10W								
R833	1-216-833-11	METAL CHIP	10K	5%	1/10W	X801			1-767-388-21	VIBRATOR, CRYSTAL (75kHz)	(EH25: KR)		
R834	1-216-837-11	METAL CHIP	22K	5%	1/10W	X801	1-795-926-11	VIBRATOR, CRYSTAL (75kHz)	(EH25: AEP, RU, UK/EH26)				
R835	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	X861	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz)	(EH25: AEP, UK/EH26)				
R836	1-216-833-11	METAL CHIP	10K	5%	1/10W							*****	
R837	1-216-821-11	METAL CHIP	1K	5%	1/10W								
R838	1-216-821-11	METAL CHIP	1K	5%	1/10W	A-1544-901-A	PANEL BOARD, COMPLETE	(EH25: AEP, UK/EH26)					
R839	1-216-809-11	METAL CHIP	100	5%	1/10W								
R840	1-216-837-11	METAL CHIP	22K	5%	1/10W			A-1544-908-A	PANEL BOARD, COMPLETE (EH25: KR)				
R841	1-216-809-11	METAL CHIP	100	5%	1/10W	A-1547-613-A	PANEL BOARD, COMPLETE (EH25: RU)						
R842	1-216-841-11	METAL CHIP	47K	5%	1/10W	*****							
R843	1-216-853-11	METAL CHIP	470K	5%	1/10W	2-636-531-01	HOLDER (LCD)						
R844	1-216-797-11	METAL CHIP	10	5%	1/10W			2-636-532-01	ILLUMINATOR (LCD)				
R845	1-216-801-11	METAL CHIP	22	5%	1/10W					2-636-545-01	SHEET (LCD)		
R846	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	< CAPACITOR >							
R847	1-216-801-11	METAL CHIP	22	5%	1/10W	C701	1-164-156-11	CERAMIC CHIP	0.1uF		25V		
R848	1-216-821-11	METAL CHIP	1K	5%	1/10W							C702	1-162-970-11
R849	1-216-837-11	METAL CHIP	22K	5%	1/10W	C704	1-126-518-11	ELECT	470uF	20%	4V		
R850	1-216-825-11	METAL CHIP	2.2K	5%	1/10W							C706	1-164-156-11
R851	1-216-837-11	METAL CHIP	22K	5%	1/10W	C707	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		
R853	1-216-845-11	METAL CHIP	100K	5%	1/10W							C710	1-165-908-11
R856	1-216-841-11	METAL CHIP	47K	5%	1/10W	C711	1-164-156-11	CERAMIC CHIP	0.1uF		25V		
R857	1-216-841-11	METAL CHIP	47K	5%	1/10W	C712	1-164-156-11	CERAMIC CHIP	0.1uF		25V		
						C716	1-164-156-11	CERAMIC CHIP	0.1uF		25V		
R859	1-216-821-11	METAL CHIP	1K	5%	1/10W								
(EH25: AEP, RU, UK/EH26)													

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C719	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	JR725	1-216-864-11	SHORT CHIP	0		
C721	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V	JR726	1-216-864-11	SHORT CHIP	0		
C722	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V	JR743	1-216-864-11	SHORT CHIP	0		
C723	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V	JR747	1-216-864-11	SHORT CHIP	0		
C724	1-113-905-11	CERAMIC	220PF	10%	250V	JR748	1-216-864-11	SHORT CHIP	0		
C725	1-124-584-00	ELECT	100uF	20%	6.3V	JR749	1-216-864-11	SHORT CHIP	0		
C726	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	JR750	1-216-864-11	SHORT CHIP	0		
C727	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	JR751	1-216-864-11	SHORT CHIP	0		
C728	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	JR752	1-216-864-11	SHORT CHIP	0		
C729	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	JR754	1-216-864-11	SHORT CHIP	0		
C731	1-164-156-11	CERAMIC CHIP	0.1uF		25V	JR760	1-216-864-11	SHORT CHIP	0		
C732	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	JR762	1-216-864-11	SHORT CHIP	0		
C733	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	JR763	1-216-864-11	SHORT CHIP	0		
C738	1-115-156-11	CERAMIC CHIP	1uF		10V	JR775	1-216-864-11	SHORT CHIP	0		
C739	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	JR788	1-216-864-11	SHORT CHIP	0		
C740	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	JR789	1-216-864-11	SHORT CHIP	0		
C741	1-115-156-11	CERAMIC CHIP	1uF		10V	L701	1-216-864-11	SHORT CHIP	0		
C742	1-115-156-11	CERAMIC CHIP	1uF		10V	L702	1-216-864-11	SHORT CHIP	0		
C743	1-115-156-11	CERAMIC CHIP	1uF		10V						
C744	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V			< LIQUID CRYSTAL DISPLAY >			
C745	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	LCD702	1-802-381-11	DISPLAY PANEL, LIQUID CRYSTAL			
C748	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V			< LED >			
C750	1-164-156-11	CERAMIC CHIP	0.1uF		25V	LED701	6-502-498-01	LED SELU2B10A-SLF62FGH			
C751	1-164-156-11	CERAMIC CHIP	0.1uF		25V			(LCD BACK LIGHT)			
C753	1-115-156-11	CERAMIC CHIP	1uF		10V	LED702	6-501-452-01	LED 1L4345V22DOTDT02 (STANDBY)			
		< CONNECTOR >						< TRANSISTOR >			
CNP701	1-779-289-11	CONNECTOR, FFC (LIF (NON-ZIF)) 21P				Q701	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
CNP703	1-784-727-11	CONNECTOR, FFC 5P (EH25: RU, KR)				Q702	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
CNP703	1-568-850-11	CONNECTOR, FFC 7P (EH25: AEP, UK/EH26)				Q703	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
CNP706	1-784-780-11	CONNECTOR, FFC 19P				Q704	8-729-038-28	TRANSISTOR	RT1N441C-TP-1		
CNP707	1-779-281-11	CONNECTOR, FFC (LIF (NON-ZIF)) 13P				Q705	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
		< DIODE >				Q706	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
D701	6-501-163-01	DIODE UDZW-TE17-3.6B				Q707	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
D702	6-500-334-01	DIODE MC2836-T112-1				Q708	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
D703	6-500-335-01	DIODE MC2838-T112-1				Q709	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
D704	6-501-582-01	DIODE 1N4002-B5				Q710	8-729-038-28	TRANSISTOR	RT1N441C-TP-1		
D705	6-501-582-01	DIODE 1N4002-B5				Q711	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
		< IC >				Q712	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
IC701		IC MB90F830PF-GE1 (for SERVICE)				Q713	8-729-038-28	TRANSISTOR	RT1N441C-TP-1		
IC703	6-600-349-31	IC NJL24H400A				Q714	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
IC706	6-711-821-01	IC TK11135CSCL-G						< RESISTOR >			
IC707	6-706-964-01	IC TK70533SCL-G				R701	1-216-817-11	METAL CHIP	470	5%	1/10W
IC709	6-712-923-01	IC PST3542UL				R702	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< JUMPER RESISTOR >				R703	1-216-821-11	METAL CHIP	1K	5%	1/10W
JR702	1-216-864-11	SHORT CHIP	0			R704	1-216-821-11	METAL CHIP	1K	5%	1/10W
JR705	1-216-864-11	SHORT CHIP	0			R705	1-216-821-11	METAL CHIP	1K	5%	1/10W
JR706	1-216-864-11	SHORT CHIP	0			R706	1-216-821-11	METAL CHIP	1K	5%	1/10W
JR707	1-216-864-11	SHORT CHIP	0			R707	1-216-821-11	METAL CHIP	1K	5%	1/10W
JR709	1-216-864-11	SHORT CHIP	0			R708	1-216-821-11	METAL CHIP	1K	5%	1/10W
JR710	1-216-864-11	SHORT CHIP	0			R709	1-216-821-11	METAL CHIP	1K	5%	1/10W
JR713	1-216-864-11	SHORT CHIP	0			R710	1-216-821-11	METAL CHIP	1K	5%	1/10W
JR714	1-216-864-11	SHORT CHIP	0			R711	1-216-821-11	METAL CHIP	1K	5%	1/10W
JR715	1-216-864-11	SHORT CHIP	0			R712	1-216-864-11	SHORT CHIP	0		
JR719	1-216-864-11	SHORT CHIP	0			R713	1-216-833-11	METAL CHIP	10K	5%	1/10W
JR722	1-216-864-11	SHORT CHIP	0			R714	1-216-833-11	METAL CHIP	10K	5%	1/10W
JR723	1-216-864-11	SHORT CHIP	0			R715	1-216-809-11	METAL CHIP	100	5%	1/10W
JR724	1-216-864-11	SHORT CHIP	0								

HCD-EH25/EH26

PANEL

PT-VBUS

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R716	1-216-809-11	METAL CHIP	100	5%	1/10W	R782	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R718	1-216-821-11	METAL CHIP	1K	5%	1/10W						(EH25: RU)
R719	1-216-821-11	METAL CHIP	1K	5%	1/10W	R782	1-216-864-11	SHORT CHIP	0 (EH25: KR)		
R720	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R721	1-216-817-11	METAL CHIP	470	5%	1/10W	R783	1-216-864-11	SHORT CHIP	0 (EH25: RU, KR)		
R722	1-216-821-11	METAL CHIP	1K	5%	1/10W	R784	1-216-845-11	METAL CHIP	100K	5%	1/10W
						R785	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R787	1-216-841-11	METAL CHIP	47K	5%	1/10W
						R788	1-216-821-11	METAL CHIP	1K	5%	1/10W
R723	1-216-817-11	METAL CHIP	470	5%	1/10W	R789	1-216-821-11	METAL CHIP	1K	5%	1/10W
R724	1-216-821-11	METAL CHIP	1K	5%	1/10W	R790	1-216-821-11	METAL CHIP	1K	5%	1/10W
R725	1-216-821-11	METAL CHIP	1K	5%	1/10W	R791	1-216-821-11	METAL CHIP	1K	5%	1/10W
R726	1-216-821-11	METAL CHIP	1K	5%	1/10W	R792	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R793	1-216-833-11	METAL CHIP	10K	5%	1/10W
R727	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R728	1-216-833-11	METAL CHIP	10K	5%	1/10W	R794	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R729	1-216-821-11	METAL CHIP	1K	5%	1/10W	R795	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R730	1-216-821-11	METAL CHIP	1K	5%	1/10W	R796	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R731	1-216-821-11	METAL CHIP	1K	5%	1/10W	R797	1-216-819-11	METAL CHIP	680	5%	1/10W
						R798	1-216-841-11	METAL CHIP	47K	5%	1/10W
R732	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R733	1-216-841-11	METAL CHIP	47K	5%	1/10W	R799	1-216-845-11	METAL CHIP	100K	5%	1/10W
R734	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R735	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R736	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R738	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R739	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R740	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	SW700	1-478-642-11	ENCODER, ROTARY (VOLUME)			
R741	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	SW701	1-762-875-21	SWITCH, KEYBOARD (CD ▶)			
R742	1-216-821-11	METAL CHIP	1K	5%	1/10W	SW702	1-762-875-21	SWITCH, KEYBOARD (USB ▶)			
						SW703	1-762-875-21	SWITCH, KEYBOARD (TUNING +, ▶▶▶▷▷)			
						SW704	1-762-875-21	SWITCH, KEYBOARD (TUNING -, ◀◀◀◀◀◀)			
R743	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R744	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	SW705	1-762-875-21	SWITCH, KEYBOARD (/⏏)			
R745	1-216-833-11	METAL CHIP	10K	5%	1/10W	SW706	1-762-875-21	SWITCH, KEYBOARD (FOLDER -)			
R746	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	SW707	1-762-875-21	SWITCH, KEYBOARD (FOLDER +)			
R747	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	SW708	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)			
						SW709	1-762-875-21	SWITCH, KEYBOARD (■)			
R748	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R749	1-216-821-11	METAL CHIP	1K	5%	1/10W	SW710	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)			
R750	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	SW711	1-762-875-21	SWITCH, KEYBOARD (DSGX)			
R751	1-216-821-11	METAL CHIP	1K	5%	1/10W						
					(EH25: AEP, UK/EH26)						
R753	1-216-809-11	METAL CHIP	100	5%	1/10W						
R754	1-216-833-11	METAL CHIP	10K	5%	1/10W	X701	1-760-252-12	VIBRATOR, CRYSTAL (32768Hz)			
R755	1-216-845-11	METAL CHIP	100K	5%	1/10W	X702	1-813-940-11	PIEZOELECTRIC OSCILLATOR (5.53MHz)			
R756	1-216-821-11	METAL CHIP	1K	5%	1/10W	*****					
R757	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R759	1-216-809-11	METAL CHIP	100	5%	1/10W						
R760	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R761	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R762	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
R763	1-216-837-11	METAL CHIP	22K	5%	1/10W	C901	1-165-621-91	CERAMIC CHIP	0.1uF		50V
R764	1-216-837-11	METAL CHIP	22K	5%	1/10W	C902	1-165-621-91	CERAMIC CHIP	0.1uF		50V
						C903	1-100-924-21	ELECT	2200uF	20%	35V
						C906	1-128-957-31	ELECT	220uF	20%	35V
R765	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C909	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R766	1-216-797-11	METAL CHIP	10	5%	1/10W						
R767	1-216-849-11	METAL CHIP	220K	5%	1/10W	C910	1-128-951-21	ELECT	2200uF	20%	16V
R768	1-216-805-11	METAL CHIP	47	5%	1/10W	C911	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R770	1-216-841-11	METAL CHIP	47K	5%	1/10W	C913	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R771	1-216-840-11	METAL CHIP	39K	5%	1/10W						
R772	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R774	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R775	1-216-805-11	METAL CHIP	47	5%	1/10W	CN002	1-819-132-11	PIN, CONNECTOR 4P			
R777	1-216-805-11	METAL CHIP	47	5%	1/10W						
R779	1-216-849-11	METAL CHIP	220K	5%	1/10W						
R781	1-216-813-11	METAL CHIP	220	5%	1/10W	D901	6-501-582-01	DIODE 1N4002-B5			
					(EH25: RU)	D902	6-501-582-01	DIODE 1N4002-B5			
R781	1-216-864-11	SHORT CHIP	0 (EH25: AEP, UK/EH26)			D903	8-719-312-92	DIODE RK14V1			

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< IC >		D103	6-501-579-01	DIODE MC2837	
IC901	8-759-640-19	IC PQ1CG2032FZ				< JUMPER RESISTOR >	
		< COIL >		FB101	1-216-295-91	SHORT CHIP 0	
L901	1-456-467-11	COIL, CHOKE 100uH		FB102	1-216-295-91	SHORT CHIP 0	
		< LINE FILTER >				< IC >	
△ LF901	1-443-993-11	TRANSFORMER, LINE FILTER (LFT)		IC101	6-712-645-01	IC BU9428JKV-E2	
		< RESISTOR >		IC102	6-710-808-01	IC TK63115SCL-G@GT	
R913	1-216-825-11	METAL CHIP 2.2K 5% 1/10W		IC103	6-710-887-01	IC R5523N001B-TR-F	
R918	1-218-855-11	METAL CHIP 2.2K 0.5% 1/10W		IC104	6-709-888-01	IC TC7WHU04FK (T5RSOYF	
R919	1-218-863-11	METAL CHIP 4.7K 0.5% 1/10W		IC105	6-707-808-01	IC WM8727GED/RV	
R920	1-218-871-11	METAL CHIP 10K 0.5% 1/10W				< COIL >	
R921	1-218-855-11	METAL CHIP 2.2K 0.5% 1/10W		L102	1-457-223-11	COMMON MODE CHOKE COIL	
		< FUSE HOLDER >				< RESISTOR >	
T003	1-533-233-31	FUSE HOLDER		R101	1-216-809-11	METAL CHIP 100 5% 1/10W	
T004	1-533-233-31	FUSE HOLDER		R102	1-216-809-11	METAL CHIP 100 5% 1/10W	
*****				R103	1-216-809-11	METAL CHIP 100 5% 1/10W	
	A-1527-435-A	USB BOARD, COMPLETE		R104	1-216-809-11	METAL CHIP 100 5% 1/10W	
		*****		R105	1-216-809-11	METAL CHIP 100 5% 1/10W	
		< CAPACITOR >		R106	1-216-809-11	METAL CHIP 100 5% 1/10W	
C101	1-128-995-21	ELECT CHIP 100uF 20% 10V		R107	1-216-809-11	METAL CHIP 100 5% 1/10W	
C103	1-100-354-21	ELECT CHIP 220uF 20% 6.3V		R108	1-216-845-11	METAL CHIP 100K 5% 1/10W	
C105	1-165-908-11	CERAMIC CHIP 1uF 10% 10V		R109	1-216-864-11	SHORT CHIP 0	
C107	1-165-908-11	CERAMIC CHIP 1uF 10% 10V		R112	1-216-864-11	SHORT CHIP 0	
C108	1-164-360-11	CERAMIC CHIP 0.1uF 16V		R113	1-216-864-11	SHORT CHIP 0	
C109	1-164-360-11	CERAMIC CHIP 0.1uF 16V		R115	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
C110	1-164-360-11	CERAMIC CHIP 0.1uF 16V		R116	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
C111	1-164-360-11	CERAMIC CHIP 0.1uF 16V		R118	1-216-864-11	SHORT CHIP 0	
C112	1-164-360-11	CERAMIC CHIP 0.1uF 16V		R120	1-216-864-11	SHORT CHIP 0	
C113	1-162-911-11	CERAMIC CHIP 6PF 0.5PF 50V		R121	1-216-864-11	SHORT CHIP 0	
C114	1-162-911-11	CERAMIC CHIP 6PF 0.5PF 50V		R123	1-216-834-11	METAL CHIP 12K 5% 1/10W	
C116	1-164-360-11	CERAMIC CHIP 0.1uF 16V		R124	1-216-857-11	METAL CHIP 1M 5% 1/10W	
C117	1-164-360-11	CERAMIC CHIP 0.1uF 16V		R125	1-216-809-11	METAL CHIP 100 5% 1/10W	
C118	1-164-360-11	CERAMIC CHIP 0.1uF 16V		R126	1-216-809-11	METAL CHIP 100 5% 1/10W	
C121	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R127	1-216-809-11	METAL CHIP 100 5% 1/10W	
C123	1-137-710-91	CERAMIC CHIP 10uF 20% 6.3V		R128	1-216-864-11	SHORT CHIP 0	
C124	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R129	1-216-864-11	SHORT CHIP 0	
C125	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R132	1-216-845-11	METAL CHIP 100K 5% 1/10W	
C127	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R133	1-216-833-11	METAL CHIP 10K 5% 1/10W	
C128	1-164-360-11	CERAMIC CHIP 0.1uF 16V		R134	1-216-845-11	METAL CHIP 100K 5% 1/10W	
C130	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R135	1-216-295-91	SHORT CHIP 0	
C135	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V		R136	1-217-905-11	RES-CHIP 1.5 5% 1/10W	
C136	1-162-910-11	CERAMIC CHIP 5PF 0.25PF 50V		R137	1-216-817-11	METAL CHIP 470 5% 1/10W	
C137	1-164-360-11	CERAMIC CHIP 0.1uF 16V		R138	1-216-857-11	METAL CHIP 1M 5% 1/10W	
C138	1-164-360-11	CERAMIC CHIP 0.1uF 16V		R139	1-216-809-11	METAL CHIP 100 5% 1/10W	
		< CONNECTOR >		R140	1-216-809-11	METAL CHIP 100 5% 1/10W	
CN101	1-784-865-51	CONNECTOR, FFC (LIF (NON-ZIF)) 13P		R141	1-216-809-11	METAL CHIP 100 5% 1/10W	
CN103	1-770-160-21	PIN, CONNECTOR (PC BOARD) 2P		R142	1-216-809-11	METAL CHIP 100 5% 1/10W	
CN104	1-794-548-21	CONNECTOR, USB (A) (USB)				< VIBRATOR >	
		< DIODE >		X101	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)	
D101	6-501-579-01	DIODE MC2837		*****			
D102	6-501-579-01	DIODE MC2837					

HCD-EH25/EH26

Ref. No.	Part No.	Description	Remark
MISCELLANEOUS			

⚠ 4	1-769-079-51	CORD, POWER (KR)	
⚠ 4	1-830-891-11	CORD, POWER (RU, UK)	
⚠ 4	1-831-370-11	CORD, POWER (AEP)	
10	1-500-868-11	CORE, FERRITE	
71	A-1313-349-A	MF-EH10 (TAPE MECHANISM DECK)	
102	1-452-899-11	MAGNET	
⚠ 151	8-820-126-02	OPTICAL PICK-UP BLOCK (KSM-213CDP/C2NP) (Including spindle motor (M401), sled motor (M402))	
152	1-834-268-21	WIRE (FLAT TYPE) (16 CORE)	
⚠ F001	1-532-275-33	FUSE (T160mAL/250V)	
FFC001	1-832-796-21	CABLE, FLEXIBLE FLAT (5 CORE)	(EH25: RU, KR)
FFC001	1-832-806-21	CABLE, FLEXIBLE FLAT (7 CORE)	(EH25: AEP, UK/EH26)
FFC002	1-831-952-21	CABLE, FLEXIBLE FLAT (19 CORE)	
FFC003	1-832-748-21	CABLE, FLEXIBLE FLAT (21 CORE)	
FFC004	1-832-706-21	CABLE, FLEXIBLE FLAT (13 CORE)	
⚠ PT005	1-445-421-11	TRANSFORMER, POWER (KR)	
⚠ PT005	1-445-506-11	TRANSFORMER, POWER (AEP, RU, UK)	
S201	1-771-853-11	SWITCH, DETECTION (LIMIT)	
SW750	1-692-960-11	SWITCH, PUSH (1 KEY)	(CD LID OPEN/CLOSE DETECT)

ACCESSORY			

⚠	1-770-019-61	ADAPTOR, CONVERSION PLUG (UK)	

MEMO

REVISION HISTORY

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Also, clicking the version at the top of the revised page allows you to jump to the next revised page.

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