

HT-NT3

SA-NT3

SERVICE MANUAL

Ver. 1.1 2015.05

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



Photo: SA-NT3

- All of the units included in the HT-NT3 (SA-NT3/SA-WNT3) are required to confirming operation of SA-NT3. Check in advance that you have all of the units.

COMPONENT MODEL NAME

	HT-NT3
Bar Speaker (Active Speaker System)	SA-NT3
Subwoofer (Active Subwoofer)	SA-WNT3

SPECIFICATIONS

Amplifier section

US model only:

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
(FTC)

Front L + Front R:

With 4 ohms loads, both channels driven, from 300 Hz – 20,000 Hz; rated 50 watts per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 milliwatts to rated output.

POWER OUTPUT (reference)

Front L/Front R:

133 W (per channel at 4 ohms, 1 kHz)

Except US model:

POWER OUTPUT (rated)

Front L + Front R:

60 W + 60 W (at 4 ohms, 1 kHz, 1% THD)

POWER OUTPUT (reference)

Front L/Front R:

133 W (per channel at 4 ohms, 1 kHz)

Inputs

HDMI IN 1*/2/3

TV (DIGITAL IN)

ANALOG IN

Output

HDMI OUT* (ARC)

* HDMI IN 1 and HDMI OUT jacks support HDCP 2.2 protocol. HDCP 2.2 is newly enhanced copyright protection technology that is used to protect content such as 4K movies.

HDMI section

Connector

Type A (19pin)

USB section

ψ (USB) port:

Type A (For connecting USB memory, memory card reader, and digital still camera)

LAN section

LAN (100) terminal

100BASE-TX Terminal

Wireless LAN section

Standards Compliance

IEEE 802.11 a/b/g/n

Frequency band

2.4 GHz, 5 GHz

BLUETOOTH section

Communication system

BLUETOOTH Specification version 3.0

Output

BLUETOOTH Specification Power Class 1

Maximum communication range

Line of sight approx. 30 m (98.4 ft)¹⁾

Frequency band

2.4 GHz

Modulation method

FHSS (Freq Hopping Spread Spectrum)

Compatible BLUETOOTH profiles²⁾

A2DP 1.2 (Advanced Audio Distribution Profile)

AVRCP 1.5 (Audio Video Remote Control Profile)

Supported Codecs³⁾

SBC⁴⁾, AAC, LDAC

Transmission range (A2DP)

20 Hz – 20,000 Hz (Sampling frequency 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz)

1) The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, cordless phone, reception sensitivity, antenna's performance, operating system, software application, etc.

2) BLUETOOTH standard profiles indicate the purpose of BLUETOOTH communication between devices.

3) Codec: Audio signal compression and conversion format

4) Subband Codec

Front L/Front R speaker section

Speaker system

2-way speaker system, Acoustic suspension

– Continued on next page –

HT-NT3
SOUND BAR
SA-NT3
ACTIVE SPEAKER SYSTEM

9-890-666-02

2015E81-1

© 2015.05

Sony Corporation

Published by Sony EMCS (Malaysia) PG Tec

SONY®

HT-NT3

Ver. 1.1

Speaker

Woofer: 65 mm (2 5/8 in) cone type, magnetic fluid speaker ×2
Tweeter: 18 mm (23/32 in) dome type ×2

General

Power requirements

LA9 model only:
110 V – 240 V AC, 50/60 Hz
US, CND, TW models only:
120 V AC, 60 Hz
EA model only:
127 V – 240 V AC, 50/60 Hz
Except LA9, US, CND, TW, EA models:
220 V – 240 V AC, 50/60 Hz

Power consumption

On: 55 W
Standby:
0.3 W
5.5 W (EXCEPT US, CND, LA9)

Dimensions (w/h/d) (approx.)

1,070 mm × 86 mm × 65 mm.
(42 1/4 in × 3 1/2 in × 2 5/8 in) incl.
projecting parts

Mass (approx.)

3.1 kg (6 lb 14oz)

Wireless transmitter section

Communication system

Wireless Sound Specification version 3.0

Frequency band

US, CND, AEP, UK, AUS, EA, E3 models only: 5.2 GHz, 5.8 GHz
SP, TW, LA9 models only: 5.8 GHz
RU model only: 5.2 GHz

* 5.2 GHz or 5.8 GHz may not be available in some countries/regions.

Modulation method

DSSS

Video formats supported by the system

Input/Output (HDMI Repeater block)

Format	2D	3D		
		Frame packing	Side-by-Side (Half)	Over-Under (Top-and-Bottom)
4096 × 2160p @ 59.94/60 Hz ^{*1}	○	–	–	–
4096 × 2160p @ 50 Hz ^{*1}	○	–	–	–
4096 × 2160p @ 23.98/24 Hz ^{*2}	○	–	–	–
3840 × 2160p @ 59.94/60 Hz ^{*1}	○	–	–	–
3840 × 2160p @ 50 Hz ^{*1}	○	–	–	–
3840 × 2160p @ 29.97/30 Hz ^{*2}	○	–	–	–
3840 × 2160p @ 25 Hz ^{*2}	○	–	–	–
3840 × 2160p @ 23.98/24 Hz ^{*2}	○	–	–	–
1920 × 1080p @ 59.94/60 Hz	○	–	○	○
1920 × 1080p @ 50 Hz	○	–	○	○
1920 × 1080p @ 29.97/30 Hz	○	○	○	○
1920 × 1080p @ 25 Hz	○	○	○	○
1920 × 1080p @ 23.98/24 Hz	○	○	○	○
1920 × 1080i @ 59.94/60 Hz	○	○	○	○
1920 × 1080i @ 50 Hz	○	○	○	○
1280 × 720p @ 59.94/60 Hz	○	○	○	○
1280 × 720p @ 50 Hz	○	○	○	○
1280 × 720p @ 29.97/30 Hz	○	○	○	○
1280 × 720p @ 23.98/24 Hz	○	○	○	○
720 × 480p @ 59.94/60 Hz	○	–	–	–
720 × 576p @ 50 Hz	○	–	–	–
640 × 480p @ 59.94/60 Hz	○	–	–	–

^{*1} YCbCr 4:2:0/Supported 8-bit only

^{*2} Supported 8-bit only

Supplied accessories

Remote control (1)
R03 (size AAA) batteries (2)
High Speed HDMI cable (1) (EXCEPT AEP, UK)
Optical digital cable (1) (AEP, UK)
Stands (2)
AC plug adaptor (2) (LA9)

Design and specifications are subject to change without notice.

• Abbreviation

AUS : Australian model
CND : Canadian model
E3 : 240V AC area in E model
EA : Saudi Arabia model
LA9 : Latin-American model
RU : Russian model
SP : Singapore model
TW : Taiwan model

Copyrights and Trademarks

- This system incorporates Dolby* Digital and the DTS** Digital Surround System.
 - * Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.
 - ** For DTS patents, see <http://patents.dts.com>.
- Manufactured under license from DTS Licensing Limited. DTS, DTS-HD, the Symbol, & DTS and the Symbol together are registered trademarks of DTS, Inc. © DTS, Inc. All Rights Reserved.
- This system incorporates High-Definition Multimedia Interface (HDMI™) technology.
 - The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
- “BRAVIA” is a trademark of Sony Corporation.
- “PlayStation” is a registered trademark of Sony Computer Entertainment Inc.
- Wi-Fi®, Wi-Fi Protected Access®, Wi-Fi Alliance® and Wi-Fi CERTIFIED Miracast® are registered trademarks of Wi-Fi Alliance®.
- Wi-Fi CERTIFIED™, WPA™, WPA2™, Wi-Fi Protected Setup™ and Miracast™ are trademarks of Wi-Fi Alliance®.
- The N Mark is a trademark or registered trademark of NFC Forum, Inc. in the United States and in other countries.
- Android™ is a trademark of Google Inc.
- Google Play™ is a trademark of Google Inc.
- Google Cast™ is a trademark of Google Inc.
- Google Cast™ Ready and the Google Cast Ready badge are trademarks of Google Inc.
- “Xperia” is a trademark of Sony Mobile Communications AB.
- The BLUETOOTH® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Sony Corporation is under license. Other trademarks and trade names are those of their respective owners.
- LDAC™ and LDAC logo are trademarks of Sony Corporation.
- “DSEE HX” is a trademark of Sony Corporation.
- MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.
- Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
 - This product is protected by certain intellectual property rights of Microsoft Corporation. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft or an authorized Microsoft subsidiary.
- Opera® Devices SDK from Opera Software ASA. Copyright 1995-2013 Opera Software ASA. All rights reserved.



- “ClearAudio+” is a trademark of Sony Corporation.
- “x.v.Colour” and “x.v.Colour” logo are trademarks of Sony Corporation.
- Apple, the Apple logo, iPhone, iPod, iPod touch, and Retina are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc.

“Made for iPod,” and “Made for iPhone” mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

Compatible iPod/iPhone models

The compatible iPod/iPhone models are as follows. Update your iPod/iPhone with the latest software before using with the system.

BLUETOOTH technology works with:

- iPhone
 - iPhone 6 Plus/iPhone 6/iPhone 5s/iPhone 5c/iPhone 5/iPhone 4s/iPhone 4/iPhone 3GS
- iPod touch
 - iPod touch (5th generation)/iPod touch (4th generation)
- All other trademarks are trademarks of their respective owners.
- Other system and product names are generally trademarks or registered trademarks of the manufacturers. ™ and ® marks are not indicated in this document.

Notice on GNU GPL/LGPL applied software and other Open Source Softwares

This product contains software that is subject to the GNU General Public License (“GPL”) or GNU Lesser General Public License (“LGPL”). These establish that customers have the right to acquire, modify, and redistribute the source code of said software in accordance with the terms of the GPL or the LGPL.

For details of the GPL, LGPL and other software licenses, please refer to [Software License Information] in [System Settings] of the [Setup] menu on the product.

The source code for the software used in this product is subject to the GPL and LGPL, and is available on the Web. To download, please access the following:

URL:
<http://oss.sony.net/Products/Linux>

Please note that Sony cannot answer or respond to any inquiries regarding the content of this source code.

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.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage.

Check leakage as described below.

LEAKAGE TEST

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

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

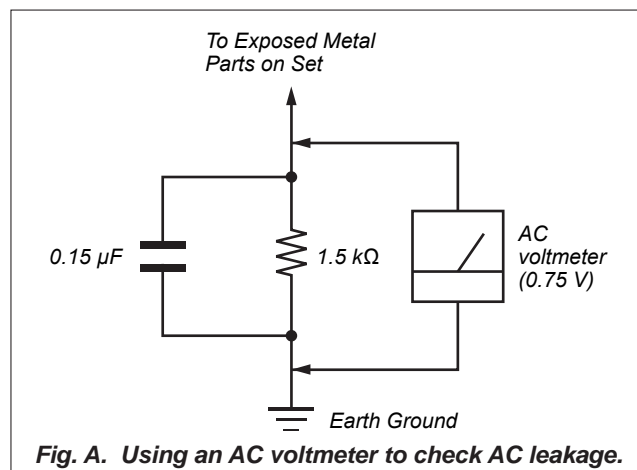


Fig. A. Using an AC voltmeter to check AC leakage.

TABLE OF CONTENTS

1. SERVICING NOTES	5	5-11. Schematic Diagram - MB-1407 Board (6/12) -	39
2. DISASSEMBLY		5-12. Schematic Diagram - MB-1407 Board (7/12) -	40
2-1. Disassembly Flow	9	5-13. Schematic Diagram - MB-1407 Board (8/12) -	41
2-2. Front Panel (Left, Right, Center) Section-1.....	10	5-14. Schematic Diagram - MB-1407 Board (9/12) -	42
2-3. Front Panel (Left, Right, Center) Section-2.....	11	5-15. Schematic Diagram - MB-1407 Board (10/12) -	43
2-4. CARD WLAN/BT COMBO.....	12	5-16. Schematic Diagram - MB-1407 Board (11/12) -	44
2-5. KEY Board, IR TXL Board, IR TXR Board, WS CHUKEI Board, RC-S730 (WW).....	13	5-17. Schematic Diagram - MB-1407 Board (12/12) -	45
2-6. Loudspeaker (6 cm)-080-12 (L-ch, R-ch), Mounted Board (Left, Right)	14	5-18. Printed Wiring Board - AMP Board -	46
2-7. Power Cord, MB-1407 Board Section.....	15	5-19. Schematic Diagram - AMP Board -	47
2-8. Switching Regulator (3L405W), AUDIO IO Board.....	16	5-20. Printed Wiring Board - AUDIO IO Board -	48
2-9. AMP Board	17	5-21. Schematic Diagram - AUDIO IO Board -	48
2-10. MB-1407 Board	18	5-22. Printed Wiring Board - WS CHUKEI Board -	49
3. TEST MODE	19	5-23. Schematic Diagram - WS CHUKEI Board -	49
4. TROUBLESHOOTING	27	5-24. Printed Wiring Board - OLED CHUKEI Board -	50
5. DIAGRAMS		5-25. Schematic Diagram - OLED CHUKEI Board -	50
5-1. Block Diagram - HDMI/USB/NETWORK Section -	28	5-26. Printed Wiring Board - IR TXL Board -	51
5-2. Block Diagram - MEMORY/AUDIO/AMP Section -	29	5-27. Schematic Diagram - IR TXL Board -	51
5-3. Block Diagram - PANEL/POWER SUPPLY Section - ..	30	5-28. Printed Wiring Board - IR TXR Board -	51
5-4. Printed Wiring Board - MB-1407 Board (suffix 12 (EXCEPT AEP, UK, RU, AUS)) -	32	5-29. Schematic Diagram - IR TXR Board -	51
5-5. Printed Wiring Board - MB-1407 Board (suffix 23 (AEP, UK, RU, AUS)) -	33	5-30. Printed Wiring Board - KEY Board -	52
5-6. Schematic Diagram - MB-1407 Board (1/12) -	34	5-31. Schematic Diagram - KEY Board -	52
5-7. Schematic Diagram - MB-1407 Board (2/12) -	35	6. EXPLODED VIEWS	
5-8. Schematic Diagram - MB-1407 Board (3/12) -	36	6-1. Overall Section	78
5-9. Schematic Diagram - MB-1407 Board (4/12) -	37	6-2. Front Panel Section	79
5-10. Schematic Diagram - MB-1407 Board (5/12) -	38	6-3. Cabinet Section 1	80
		6-4. Cabinet Section 2	81
		6-5. MB-1407 Board Section	82
		7. ELECTRICAL PARTS LIST	83

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

SAFETY-RELATED COMPONENT WARNING!

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

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

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

SECTION 1 SERVICING NOTES

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)

LF : 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.

ADVANCE PREPARATION WHEN CONFIRMING OPERATION

All of the units included in the HT-NT3 (SA-NT3/SA-WNT3) are required to confirming operation of SA-NT3. Check in advance that you have all of the units.

NOTE OF PERFORMING THE OPERATION CHECK IN THE STATE THAT HEAT SINK WAS REMOVED

When performing the operation check in the state that this unit was disassembled, it is possible to perform the operation check in the state that heat sink was removed. But don't perform the operation check in the long time, and perform the operation check in the volume state as low as possible.

NOTE OF REPLACING THE IC101, IC102, IC103, IC301, IC302, IC303, IC410, IC3004 AND IC5010 ON THE MB-1407 BOARD

IC101, IC102, IC103, IC301, IC302, IC303, IC410, IC3004 and IC5010 on the MB-1407 board cannot replace with single. When these parts are damaged, replace the complete mounted board.

NOTE OF REPLACING THE IC1501 ON THE WS CHUKEI BOARD

IC1501 on the WS CHUKEI board cannot replace with single. When this part is damaged, replace the complete mounted board.

NOTE OF REPLACING THE IC102 AND IC103 ON THE MB-1407 BOARD

Replacement of IC102 and IC103 on the MB-1407 board used in this unit requires a special tool.

"PRTECT (PROTECT)" APPEARS ON THE DISPLAY OF THE BAR SPEAKER

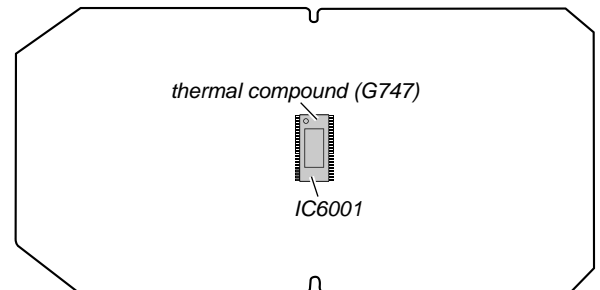
→ Press the I/⏻ (on/standby) button to turn off the system. After the indicator disappears, disconnect the AC power cord (mains lead) then check that nothing is blocking the ventilation holes of the system.

NOTE OF REPLACING THE IC6001 ON THE AMP BOARD AND THE COMPLETE AMP BOARD

When IC6001 on the AMP board and the complete AMP board are replaced, it is necessary to spread the compound between the AMP board and the heat sink.

Spread the compound (THERMAL COMPOUND (G747)) referring to the figure below.

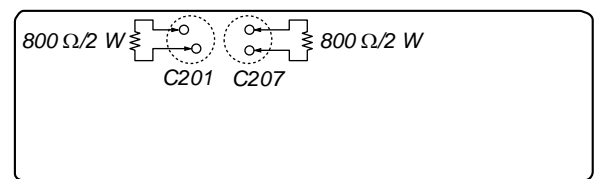
– AMP Board (Component Side) –



CAPACITOR ELECTRICAL DISCHARGE PROCESSING

When checking the board, for the electric shock prevention, connect the resistors to both ends of respective capacitor (C201 and C207) to discharge the capacitor (C201 and C207).

– SWITCHING REGULATOR (3L405W) Board (Conductor Side) –



BOND FIXATION OF ELECTRIC PARTS

When SWITCHING REGULATOR (3L405W) board or AMP board is replaced or the following object parts are replaced, it is necessary to fix parts to the boards by using a specified bond without fail.

• Object boards

SWITCHING REGULATOR (3L405W) board
Complete AMP board

• Object parts

Board	Ref. No.
SWITCHING REGULATOR (3L405W)	C101, C102, C103, C201, C207, C211, C402, C408, C461, C465, L101, L102, L401, NR101, R208, T201
AMP	C6078, C6079, L6007, L6008

• Use bond

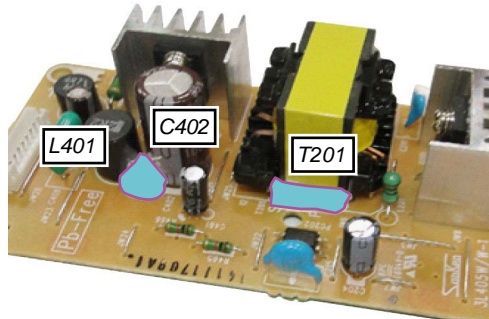
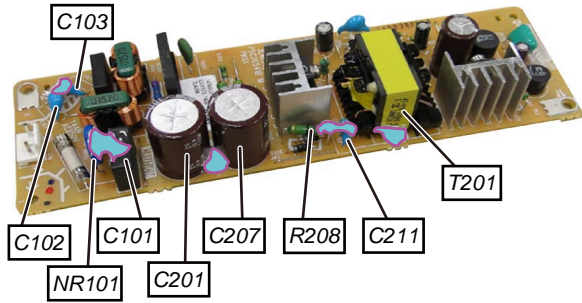
Part No.	Description
7-600-020-70	ADHESIVE (SC608Z2) 180ML

• **Parts position**

1. SWITCHING REGULATOR (3L405W) board (page 6)
2. AMP board (page 6)

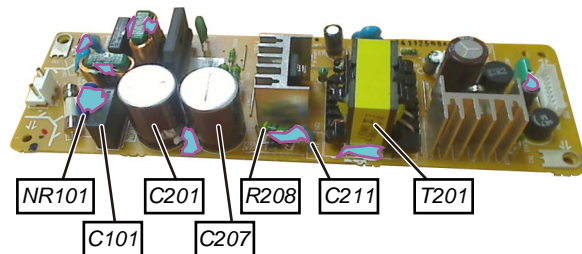
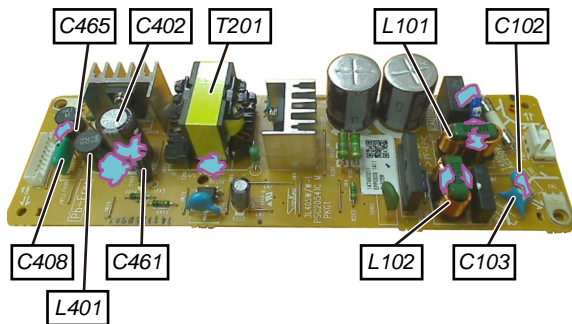
1. SWITCHING REGULATOR (3L405W) board

– SWITCHING REGULATOR (3L405W) Board (EXCEPT AEP, UK, RU, AUS) (Component Side) –



*The portion which applies bond:

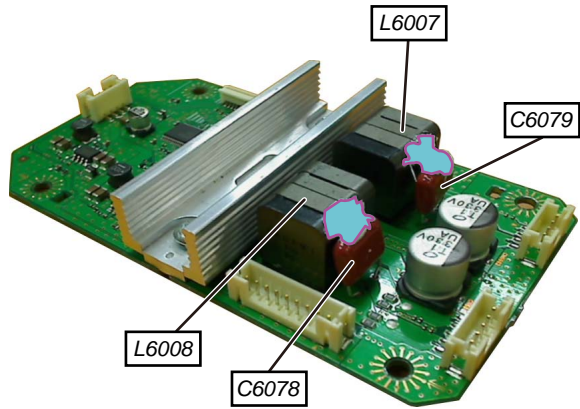
– SWITCHING REGULATOR (3L405W) Board (AEP, UK, RU, AUS) (Component Side) –



*The portion which applies bond:

2. AMP board

– AMP Board (Component Side) –

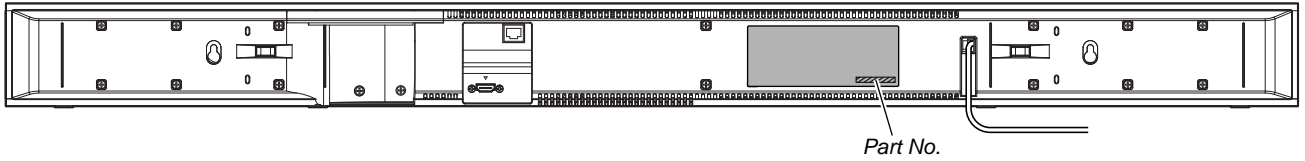


*The portion which applies bond:

MODEL IDENTIFICATION

Distinguish by Part No. on the rear side of a main unit.

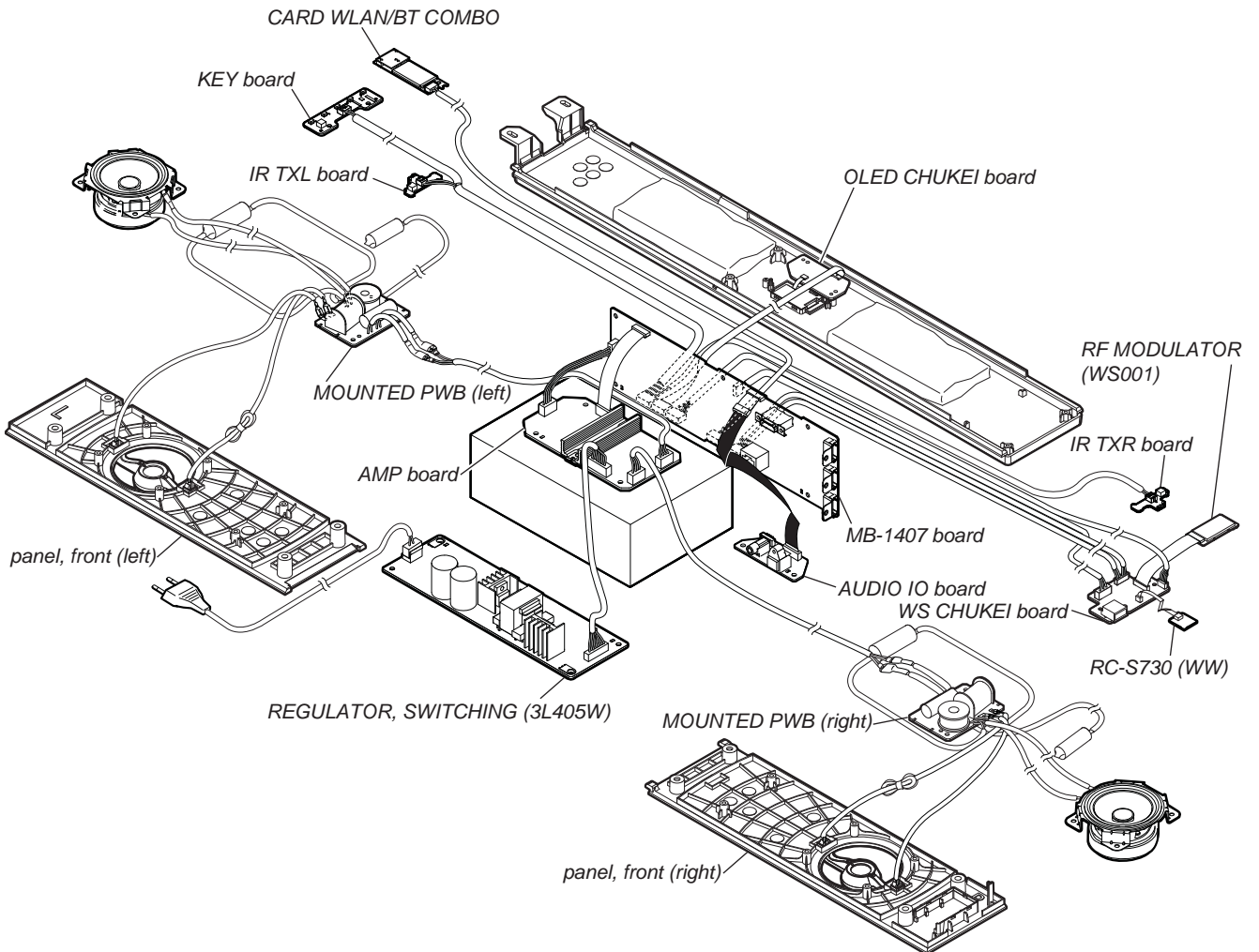
– Rear view –



Model	Part No.
US, CND	4-558-893-1□
AEP	4-558-893-3□
UK	4-558-893-4□
RU	4-558-893-5□
E3	4-558-893-6□
EA	4-558-893-7□
SP	4-558-893-8□
AUS	4-558-894-0□
TW	4-558-894-2□
LA9	4-558-894-6□

- Abbreviation
 - AUS : Australian model
 - CND : Canadian model
 - E3 : 240V AC area in E model
 - EA : Saudi Arabia model
 - LA9 : Latin-American model
 - RU : Russian model
 - SP : Singapore model
 - TW : Taiwan model

SERVICE POSITION



NOTE OF REPLACING THE CARD WLAN/BT COMBO

When the CARD WLAN/BT COMBO is exchanged, the MAC address has been changed.

Please print and cut out the following explanations, and return it with the unit that complete the repair.

MAC address of this receiver has been changed by this repair.
 The customer who use the MAC address filtering function of connected access point equipment please set it again.
 MAC address is possible to confirm on the System Information screen of this unit.
 Please refer to “Settings and Adjustments” ---> “System Settings” ---> “System Information” on the Instruction Manual for details.

Please check the basic operation for wired LAN, Wireless LAN and USB after the repair completed.

NOTE OF DELETING THE PRODUCT REGISTRATION ON SEN (INTERNET MUSIC SERVICES)

It is needed to delete the product registration on SEN (Internet Music Services) by checking the “Device ID” which have 12 digits hexadecimal number. The procedure of checking “Device ID” can be followed as below:

1. Press [HOME] button of the remote commander, the message “HOME” appears.
2. Select “Setup” and press [⊕] button.
3. Select “System Settings” and press [⊕] button.
4. Select “System Information” and press [⊕] button.
5. Device ID will shown on the display.
 Device ID: XXXX XXXX XXXX (12 digits hexadecimal number).

If it is needed to delete the customer’s registration, please contact the Service Headquarter with Device ID information.

NOTE OF REPLACING THE COMPLETE MB-1407 BOARD OR CARD WLAN/BT COMBO

When the complete MB-1407 board or CARD WLAN/BT COMBO are replaced, please execute the below service mode.

Procedure:

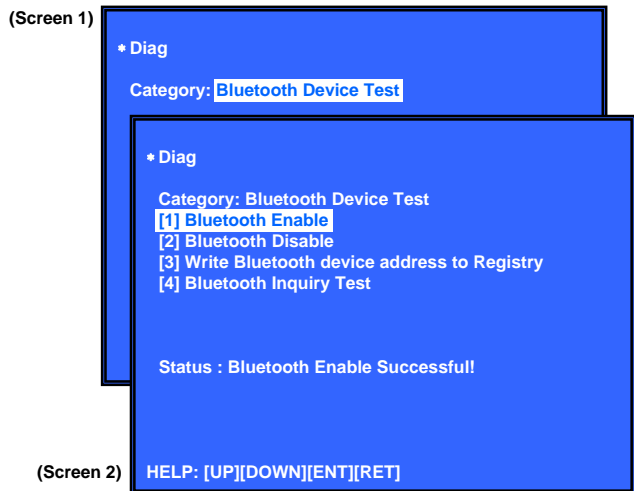
[Home menu → Setup → Resetting → Reset to Factory Default Settings → All Settings]

Next, go to service menu and execute “[1] Bluetooth Enable” and “[3] Write Bluetooth device address to Registry”.

Finally check one touch NFC listening function at normal power on.

Note: The operation in this mode must use a remote commander and TV monitor.

1. Connect this unit with TV monitor.
2. Press the [I/⏻] button to turn the power on.
3. Press button in order of the [■] → [DISPLAY] → [■] → [↑] on the remote commander.
 (Make the interval when each button is pressed within two seconds)
4. Enter the SVC service mode. The OSD menu on TV monitor can be operated by remote commander.
5. Press [↓] and Enter Diag.
6. Press [→] and Enter Bluetooth Device Test (Screen 1).
7. Enter [1] Bluetooth Enable, wait until the display show “Status : Bluetooth Enable Successful” (Screen 2).
8. Enter [3] Write Bluetooth device address to Registry, wait until the display show “Bluetooth Device Address” and “Status : Write Successful” (Screen 3).
9. Press the [RETURN] button on the remote commander to select “Wireless LAN Test”. (Screen 4)
10. Press the [⊕] button on the remote commander to select “[5] Write P2P address to Registry”.
11. Press the [⊕] button on the remote commander, wait until the display show “Status: Write Successful!” (Screen 5).
12. Press the [↓] button on the remote commander to select “[6] P2P Registry Check”.
13. Press the [⊕] button on the remote commander to check the P2P device address is the same as shown in Screen 5.
 (Displayed characters/values in the following figure are example)
14. Press the [BACK] button on the remote commander and select Factory Initialize. (go to Screen 7)
15. The set will turn off automatically.



(Screen 3)

```

*Diag

Category: Bluetooth Device Test
[1] Bluetooth Enable
[2] Bluetooth Disable
[3] Write Bluetooth device address to Registry
[4] Bluetooth Inquiry Test

Bluetooth device address : 00:01:36:23:FD:CF
Status : Write Successful!

HELP: [UP][DOWN][ENT][RET]

```

(Screen 4)

```

* Diag

Category: Wireless LAN Test

```

(Screen 5)

```

* Diag

Category: Wireless LAN Test
[1] Show WLAN HwInfo
[2] Connect to AccessPoint
[3] Start Display RSSI Value
[4] Start Ping Test
[5] Write P2P address to Registry
[6] P2P Registry Check

P2P device address : xx:xx:xx:xx:xx:xx
Status : Write Successful!
Status : Write Fail!

```

(Screen 6)

```

* Diag

Category: Wireless LAN Test
[1] Show WLAN HwInfo
[2] Connect to AccessPoint
[3] Start Display RSSI Value
[4] Start Ping Test
[5] Write P2P address to Registry
[6] P2P Registry Check

P2P device address : xx:xx:xx:xx:xx:xx

HELP: [UP][DOWN][ENT][RET]

```

(Screen 7)

```

* Service Mode Menu

[1] Diag
[2] Log
[3] Factory Initialize
[4] Network --> Not Support In This Model
[5] Version Up
[6] System Information
[7] EMC Test Mode
[8] Drive --> Not Support In This Model
[9] HDD mode
[10] RF Test Mode

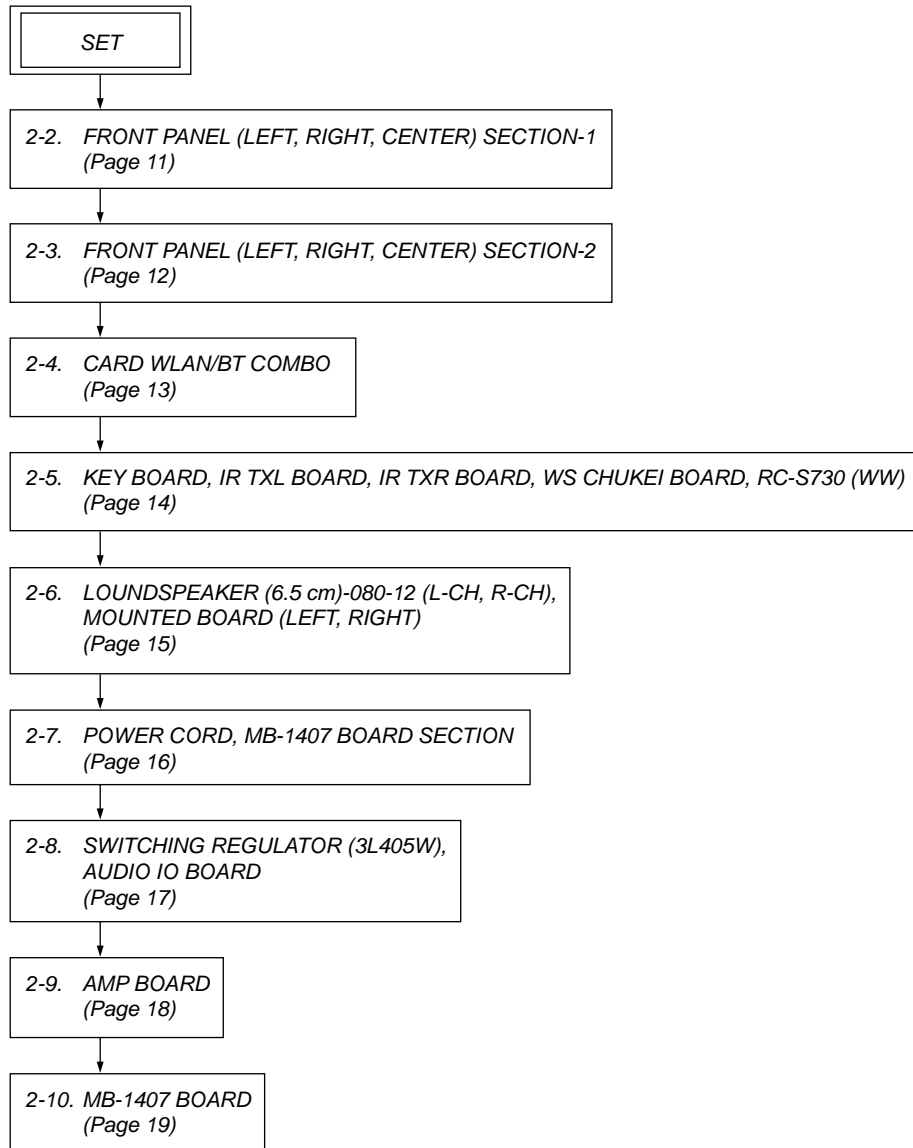
HELP: [DOWN][ENT]

```

SECTION 2 DISASSEMBLY

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

2-1. DISASSEMBLY FLOW

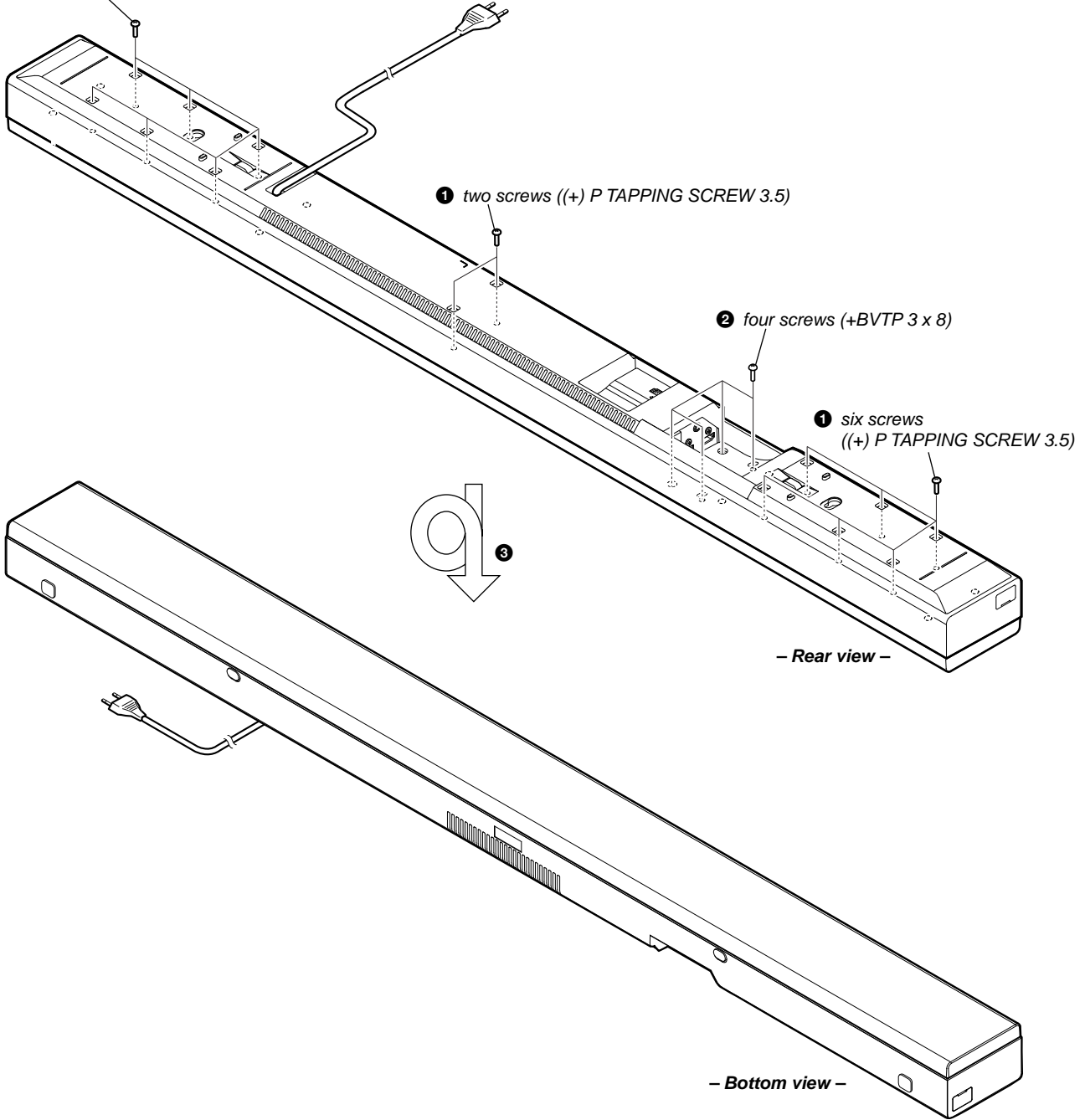


Note: Follow the disassembly procedure in the numerical order given.

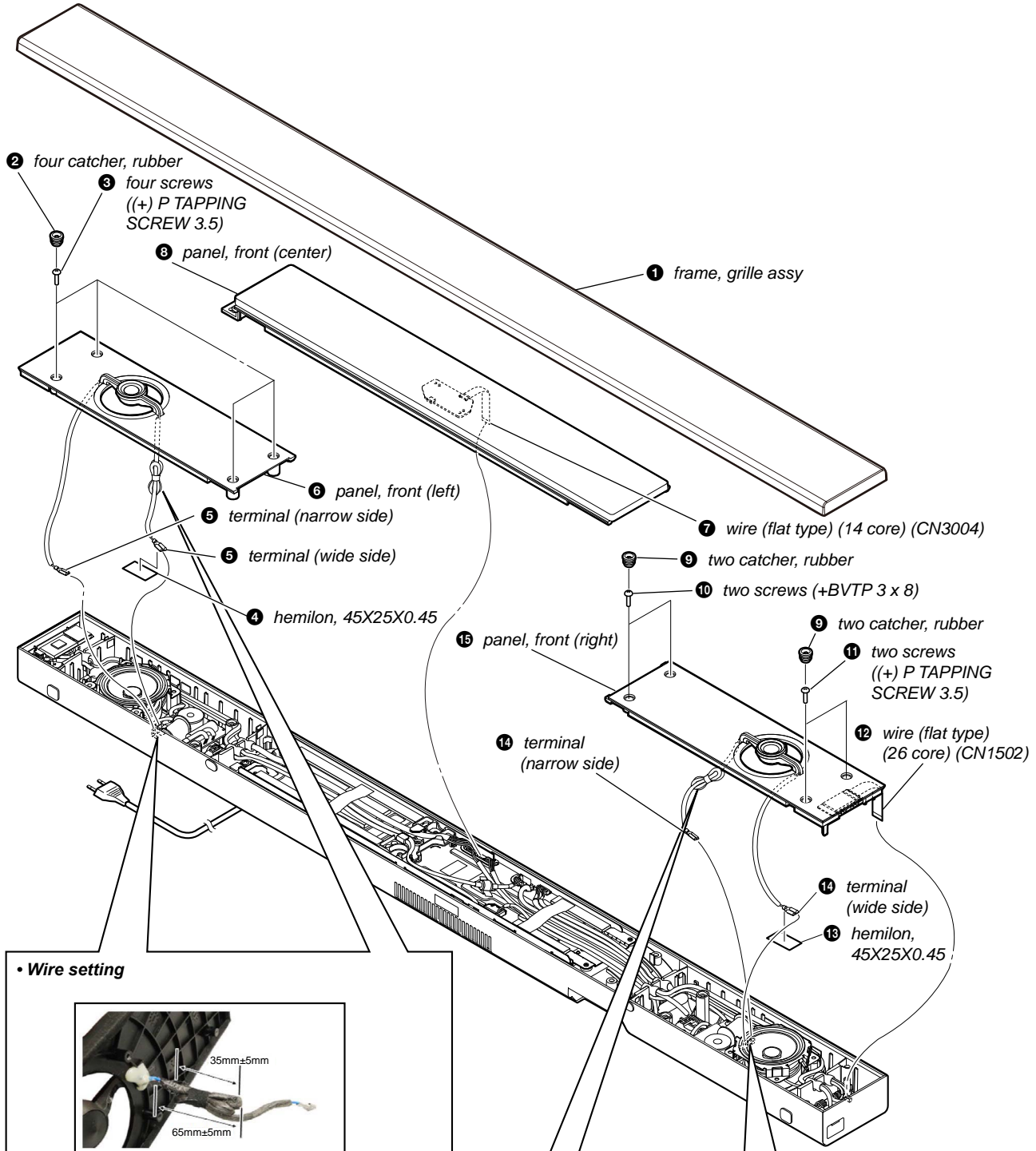
2-2. FRONT PANEL (LEFT, RIGHT, CENTER) SECTION-1

• Continued on next page.

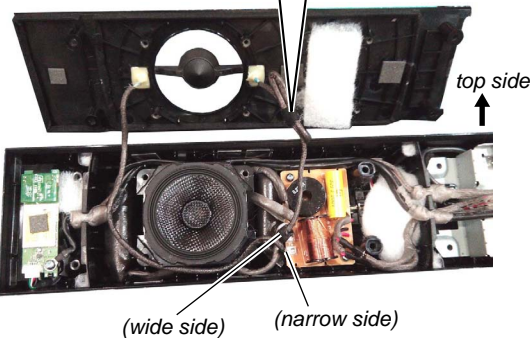
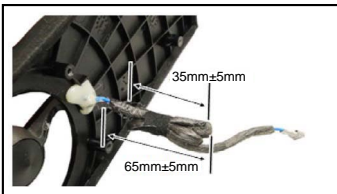
① six screws ((+) P TAPPING SCREW 3.5)



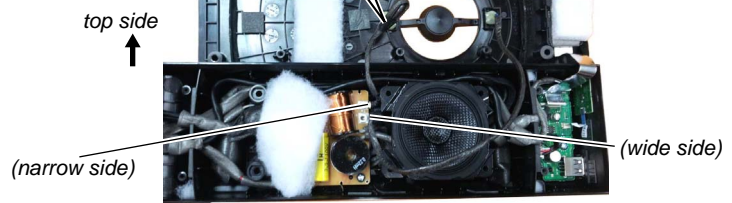
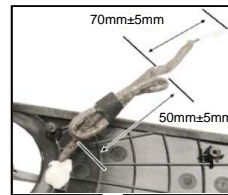
2-3. FRONT PANEL (LEFT, RIGHT, CENTER) SECTION-2



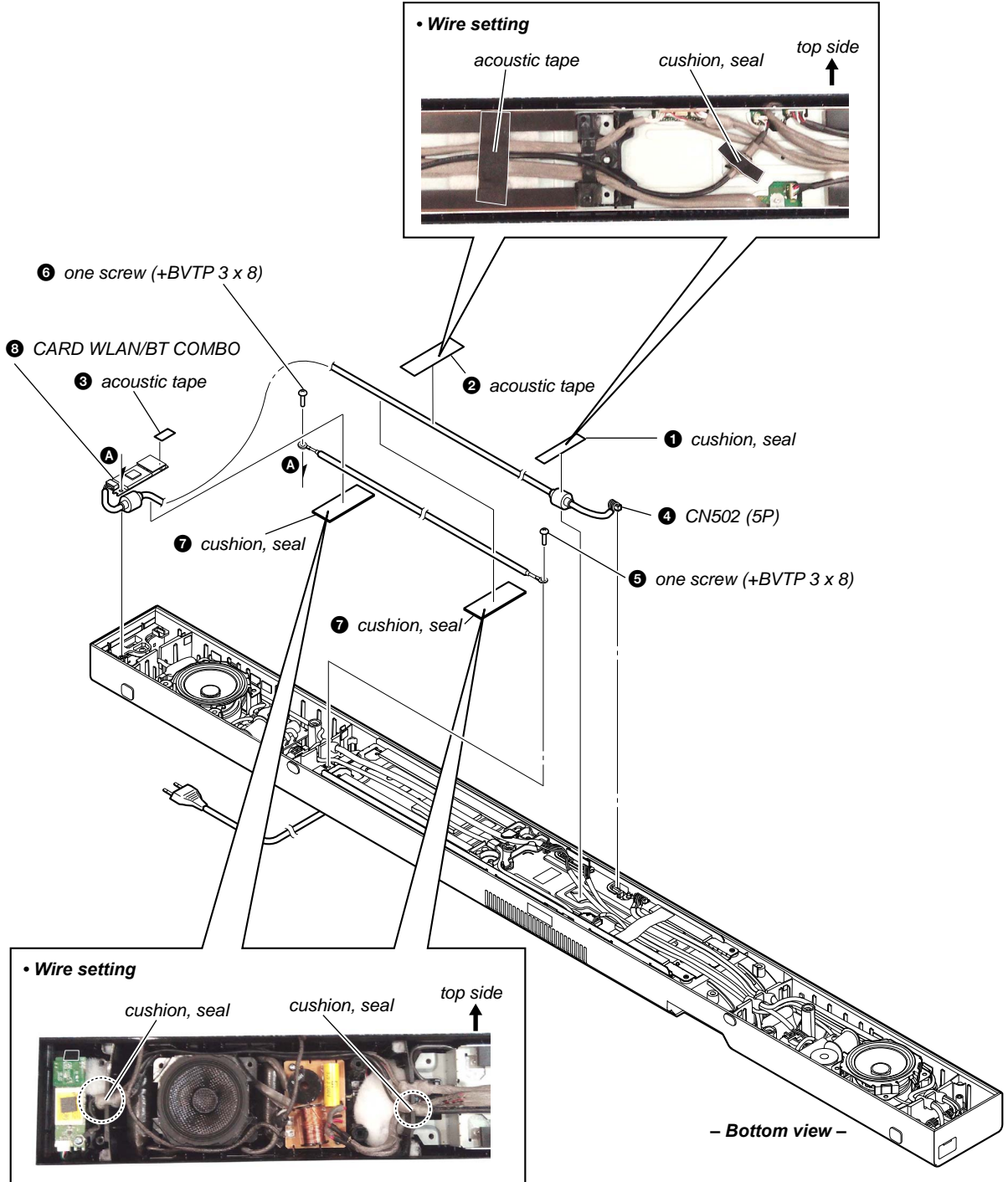
• Wire setting



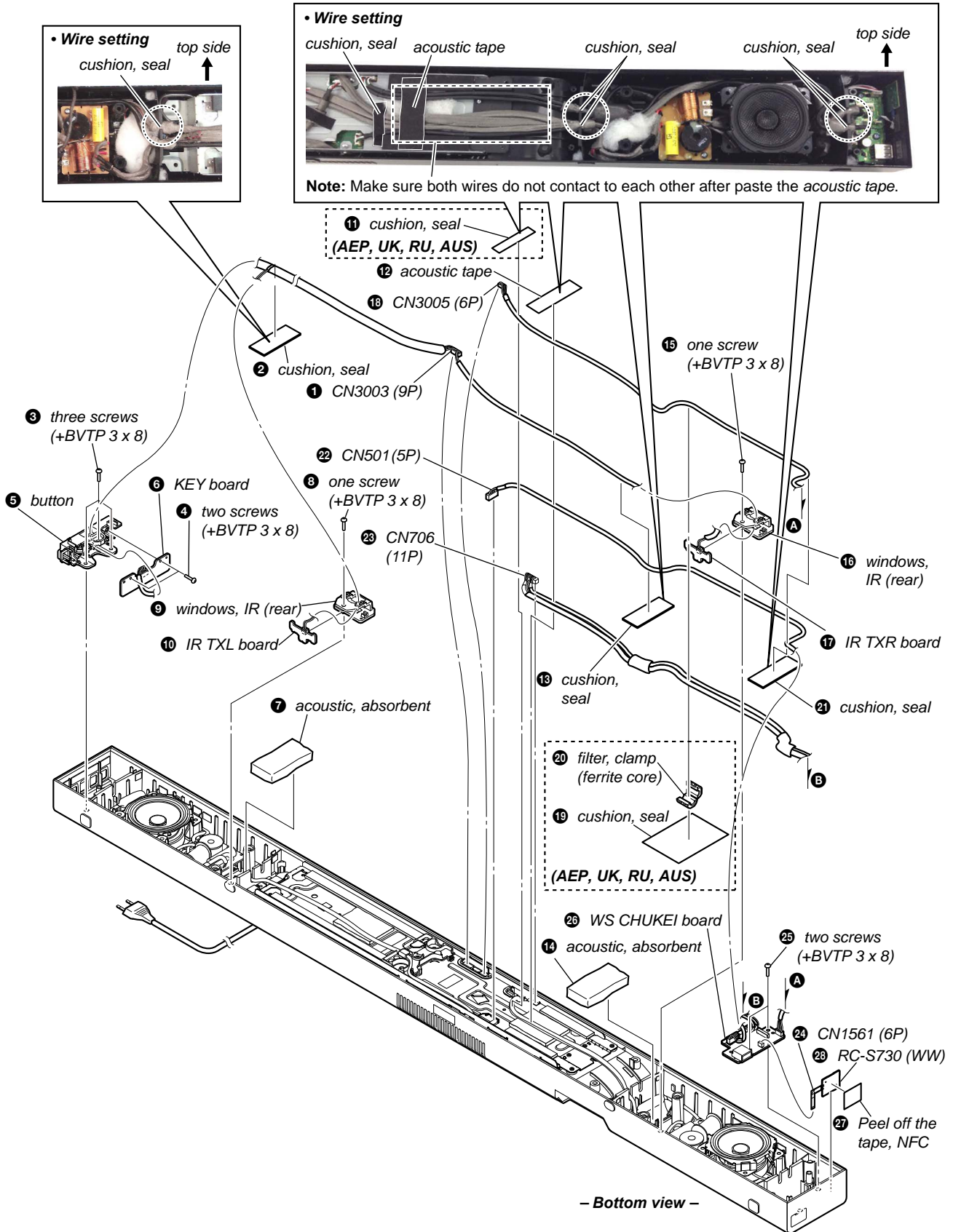
• Wire setting



2-4. CARD WLAN/BT COMBO

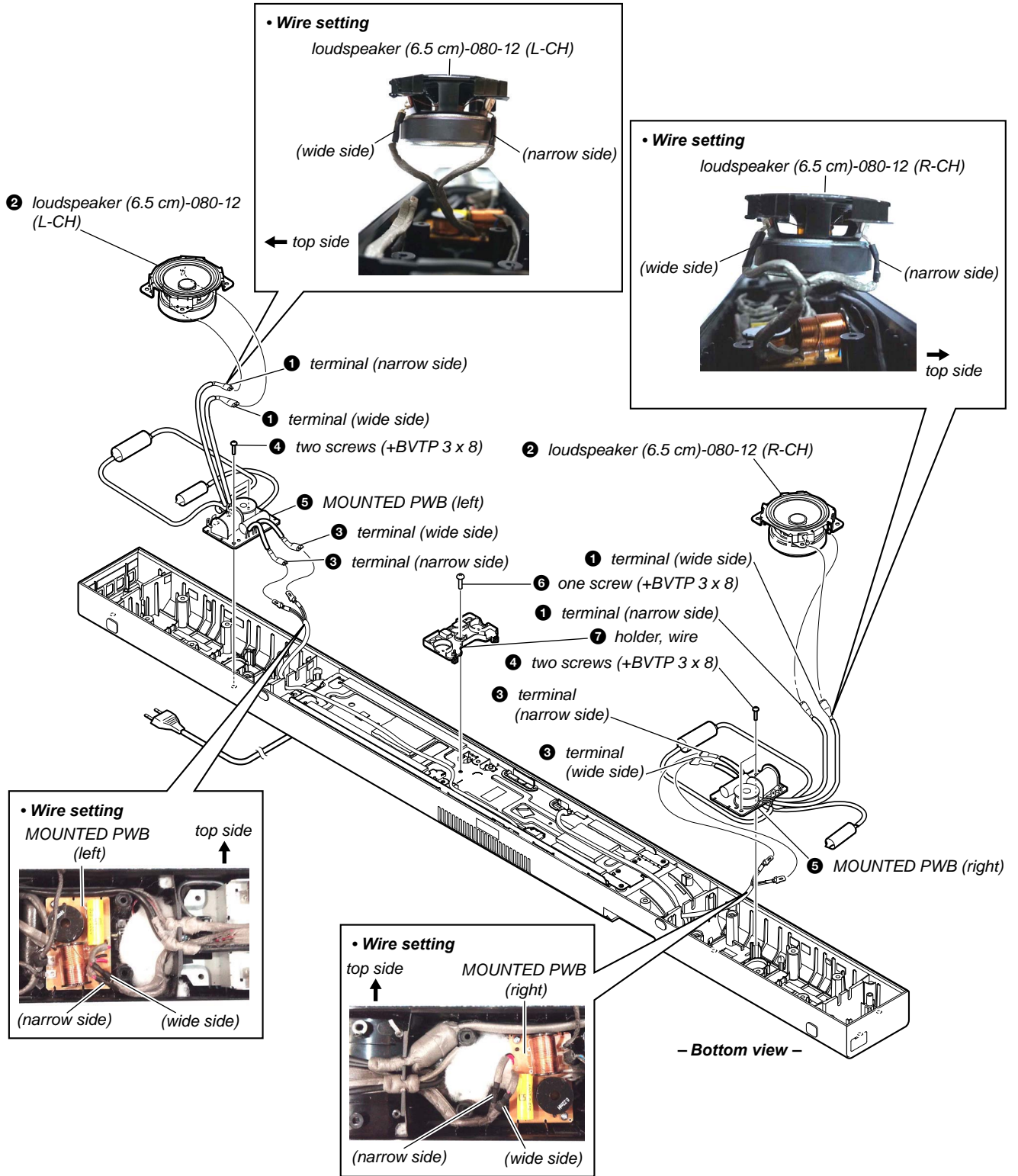


2-5. KEY BOARD, IR TXL BOARD, IR TXR BOARD, WS CHUKEI BOARD, RC-S730 (WW)

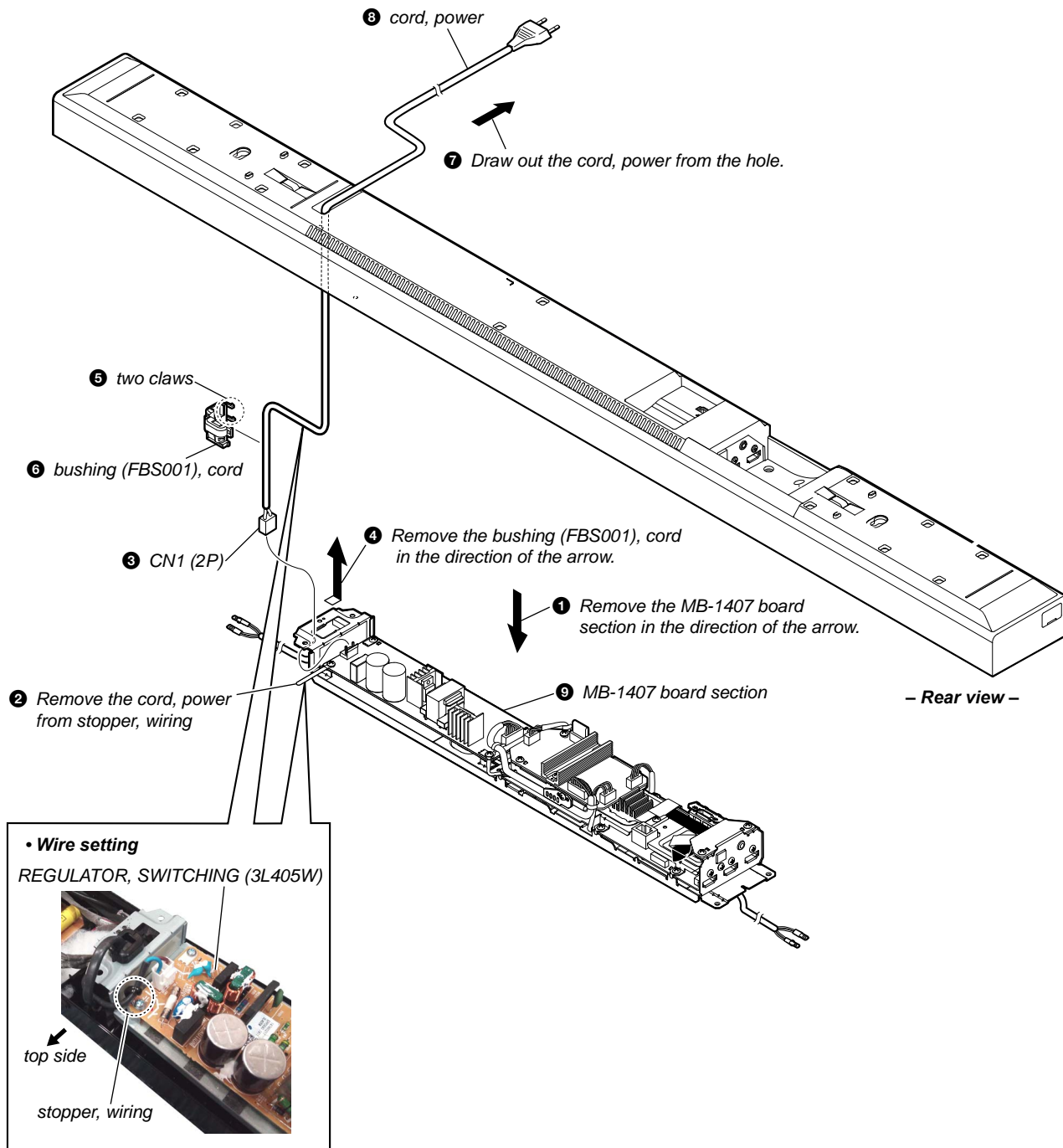


- Abbreviation
- AUS : Australian model
- RU : Russian model

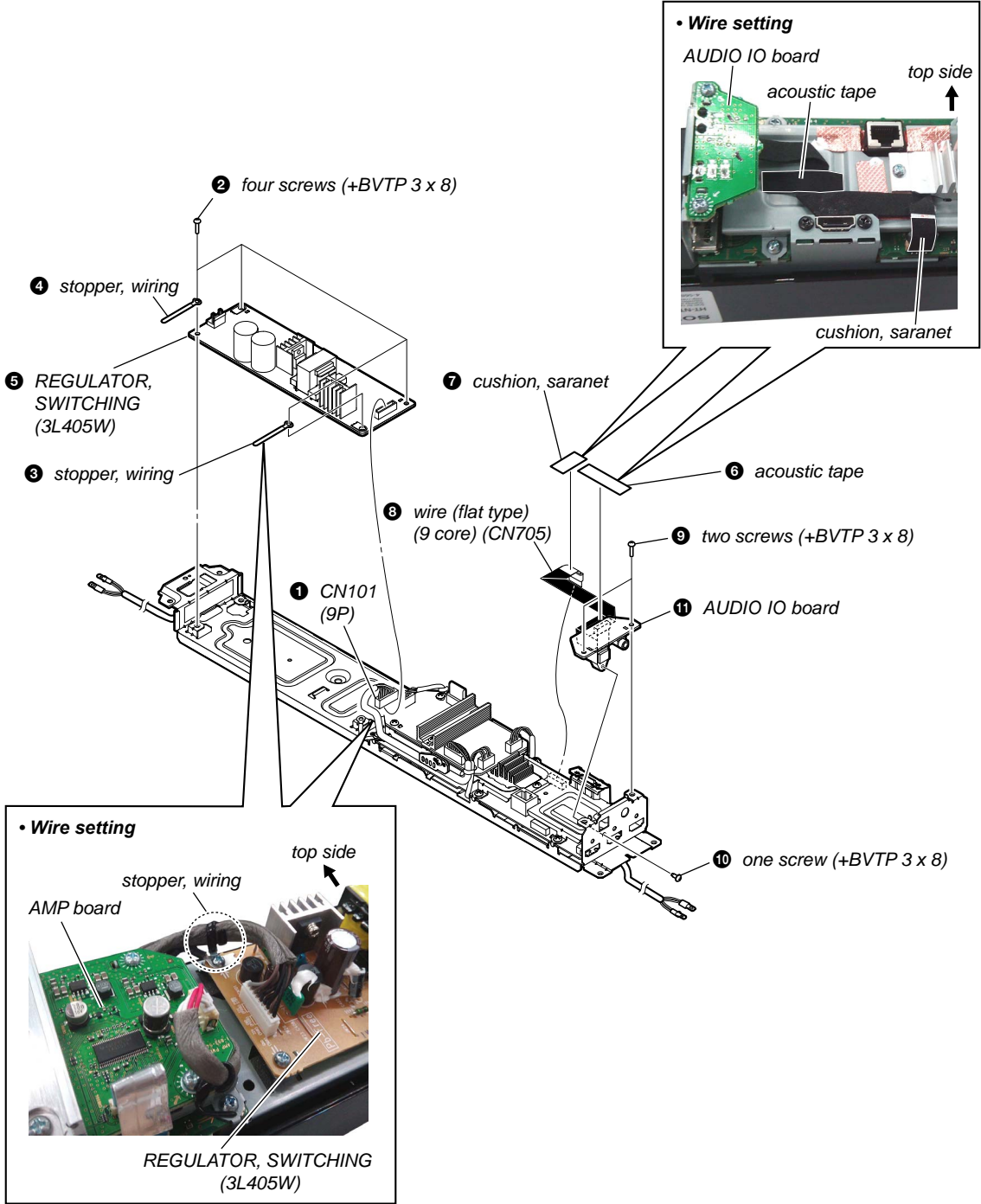
2-6. LOUDSPEAKER (6.5 cm)-080-12 (L-CH, R-CH), MOUNTED BOARD (LEFT, RIGHT)



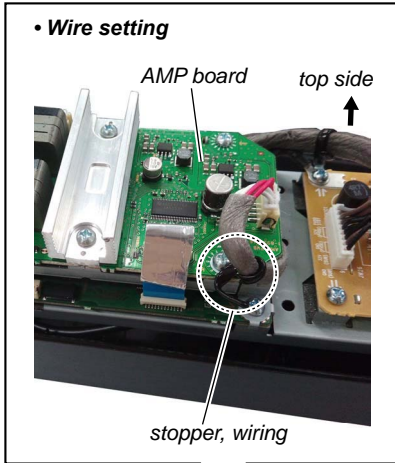
2-7. POWER CORD, MB-1407 BOARD SECTION



2-8. SWITCHING REGULATOR (3L405W), AUDIO IO BOARD

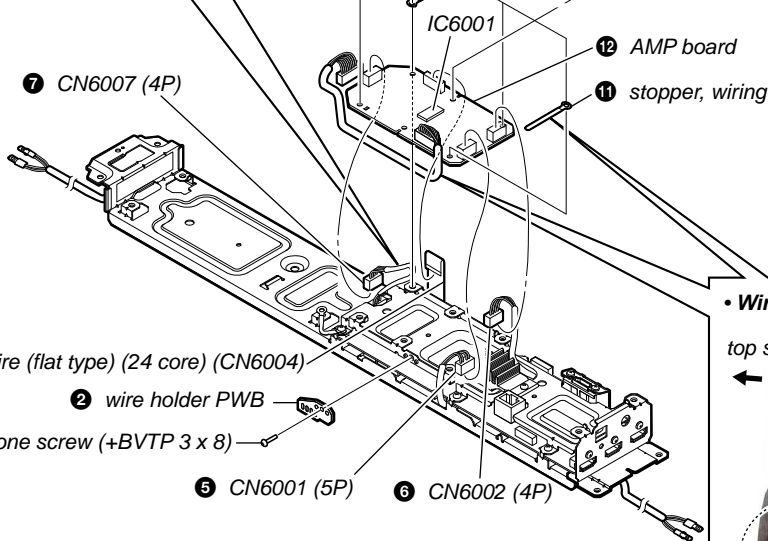


2-9. AMP BOARD



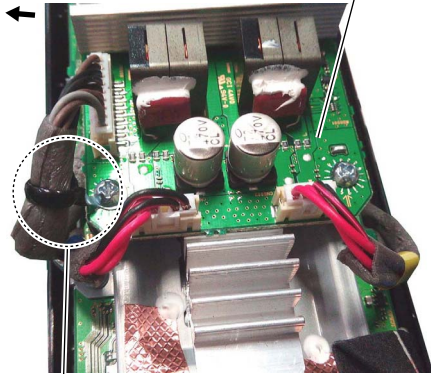
- 9 four screws (+BVTP 3 x 8)
- 10 stopper, wiring
- 3 two screws (+BVTP 3 x 10)
- 4 heat sink, AMP

Note: When you install the heat sink, AMP spread the compound referring to "NOTE OF REPLACING THE IC6001 ON THE AMP BOARD AND THE COMPLETE AMP BOARD" on page 5.

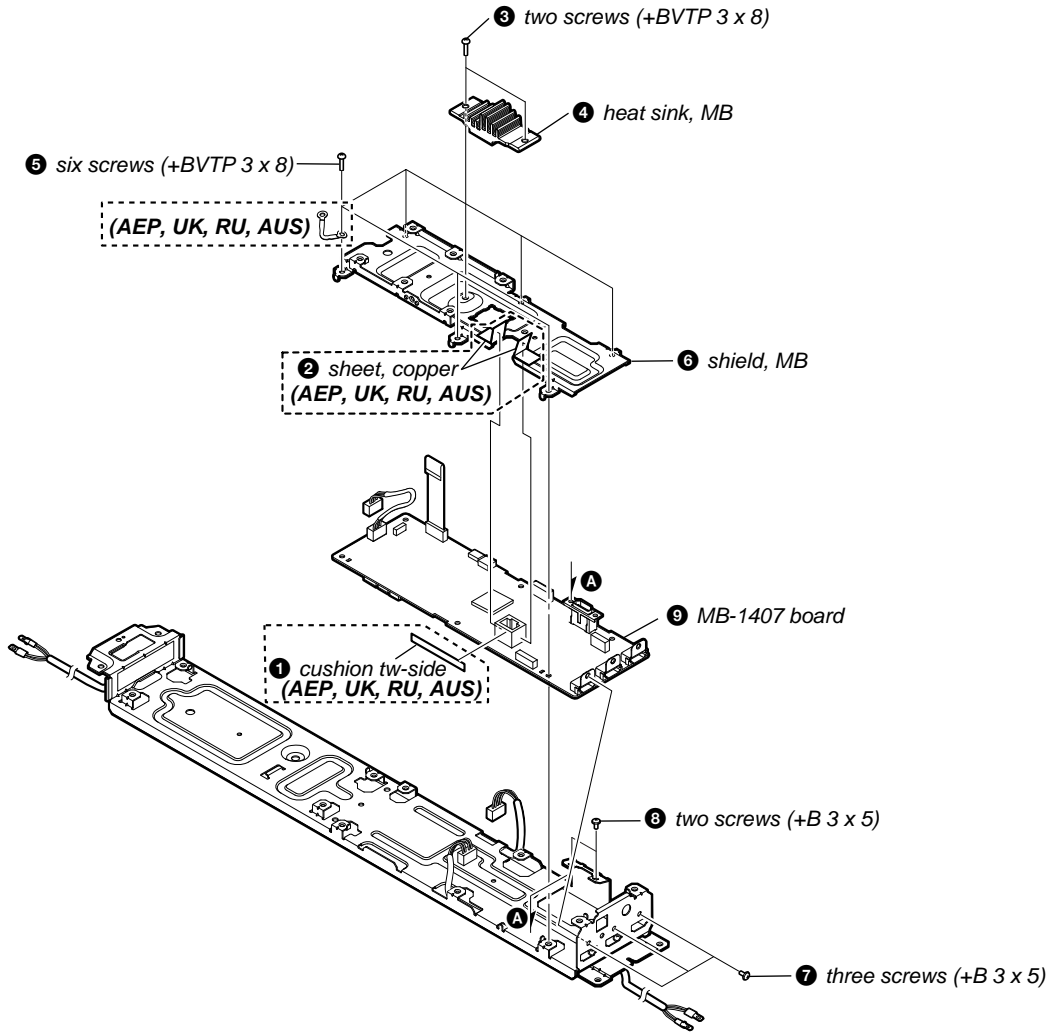


• Wire setting

top side ←



2-10. MB-1407 BOARD



SECTION 3 TEST MODE

COLD RESET

The cold reset clears certain data in this system without initialize Personal Information and some operation data.
Execute this mode when returning the unit to the customers.

Procedure:

1. Press the [I/⏻] button on the main unit to turn the power on.
2. Press the [I/⏻] button and [VOL -] button on the main unit simultaneously for five seconds.
3. The message "WAIT" appears and then "RESET" appears on the fluorescent indicator tube, then becomes standby states.

PANEL TEST

Procedure:

1. Press the [I/⏻] button on the main unit to turn the power on.
2. Press button in order of the [■] → [DISPLAY] → [↓] → [↑] on the remote commander.
(Make the interval when each button is pressed within two seconds).
3. All segments in fluorescent indicator tube are lighted up and then is dimmed after a second.
4. In the state of step 3, press the [INPUT +] button on the remote commander and "K 0" is displayed on the fluorescent indicator tube.
5. In the state of step 4, press the [VOL +] button on the remote commander and "SZ_A" is displayed on the fluorescent indicator tube.
6. In the state of step 5, press the [VOL -] button on the remote commander and all segments in fluorescent indicator tube are lighted up and then is dimmed after a second.
7. In the state of step 6, press the [■] button on the remote commander and "1 24" is displayed on the fluorescent indicator tube.

Releasing method:

To release from this mode, press the [I/⏻] button on the main unit or press the [I/⏻] button on the remote commander.

AMP TEST

Procedure:

1. Touch the [I/⏻] touch key on the main unit to turn the power on.
2. Press button in order of the [■] → [DISPLAY] → [VOL -] → [↑] on the remote commander.
The message "MSURE" is displayed on the fluorescent indicator tube.
3. In the state of step 2, press [DIMMER] button on the remote commander.
The message will appear in order of the "FULL" → "THRU" → "F2S" → "F2SB" → "F2CW" on the fluorescent indicator tube.
4. In the state of step 3, press [◀◀] button on the remote commander.
The message will appear in order of the "A.OFF" → "A.ON" on the fluorescent indicator tube.
5. In the state of step 4, press [⊗] button on the remote commander.
The message will appear in order of the "V.N" → "V.MSM" on the fluorescent indicator tube.
6. In the state of step 5, press [CLEARAUDIO+] button on the remote commander.
The message will appear in order of the "VAON" → "VAOFF" on the fluorescent indicator tube.

7. In the state of step 6, press [VOICE] button on the remote commander to adjust the volume gain.
It can be adjusted between -3.0 to +3.0 (increase everytime 0.1 step).
Eg: When gain +1.0 dB by pressing the [VOICE] button, the message "G +1.0" will appear on the fluorescent indicator tube.
8. In the state of step 7, press [NIGHT] button on the remote commander to adjust the volume gain.
It can be adjusted between +3.0 to -3.0 (decrease everytime 0.1 step).
Eg: When gain -1.0 dB by pressing the [NIGHT] button, the message "G -1.0" will appear on the fluorescent indicator tube.

WIRELESS SOUND TEST MODE

It can display the μ-com version of Subwoofer (SA-WNT3).

Note :More than one item may be displayed on the fluorescent indicator tube, but it is not used for the servicing other than "VER".

Preparation:

- Prepare the remote commander attached to this unit.
Remote commander:
RM-AH110U (US and Canadian models)
RM-AH110E (Except US and Canadian models)
- Connect the Bar Speaker (SA-NT3) and the Subwoofer (SA-WNT3) by wireless.

Procedure:

1. Press button in order of the [■] → [DISPLAY] → [CLEAR AUDIO+] → [↑] on the remote commander.
2. The message "FACTR" is displayed on the fluorescent indicator tube and enter the wireless sound test mode.
3. Press the [↑]/[↓] buttons on the remote commander, select the "VER", and press the [⊕] button on the remote commander.
4. The μ-com version of Subwoofer (SA-WNT3) is displayed on the fluorescent indicator tube. For example, 0.12A.
5. When [↑]/[↓] buttons on the remote commander is pressed while the μ-com version of Subwoofer (SA-WNT3) is displayed on the fluorescent indicator tube, year, month and day of the creation is displayed on the fluorescent indicator tube. For example, 41027.

When [↑]/[↓] buttons on the remote commander is pressed again, the display returns to the μ-com version of Subwoofer (SA-WNT3) display.

Releasing method:

Press the [I/⏻] button to release the test mode menu.

WIRELESS SOUND COLD RESET

It can initialize various backup information of Subwoofer (SA-WNT3).

Preparation:

Connect the Bar Speaker (SA-NT3) and the Subwoofer (SA-WNT3)

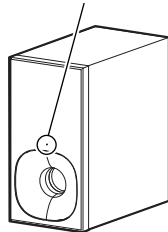
Procedure:

1. Press button in order of the [■] → [DISPLAY] → [BACK] → [↑] on the remote commander.
2. The power indicator LED on the Subwoofer (SA-WNT3) turns as below.

For secure link : orange (light up) -> red (flashing) -> orange (light up)

For normal link : green (light up) -> red (flashing) -> orange (light up)

Power indicator LED



3. Pull out the power cord on the Subwoofer (SA-WNT3) from an outlet and insert the power cord again.

FACTORY INITIALIZE

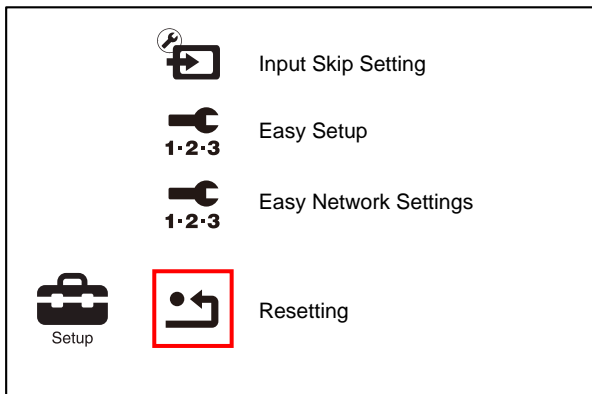
Return all of the unit setting to their factory defaults.

Note 1: Disconnect the following connections when you use this mode.
• USB

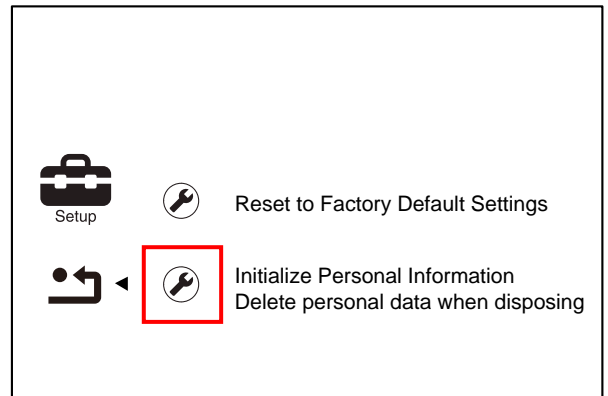
Note 2: The operation in this mode must use a remote commander and TV monitor.

Procedure:

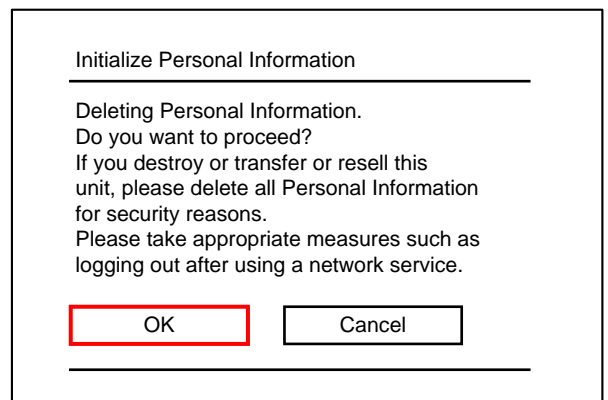
1. Press the [I/⏻] button to turn the power on.
2. Press the [HOME] button on the remote commander, and the home menu is displayed.
3. Select “Setup” → “Resetting”, and press the [⊕] button on the remote commander.



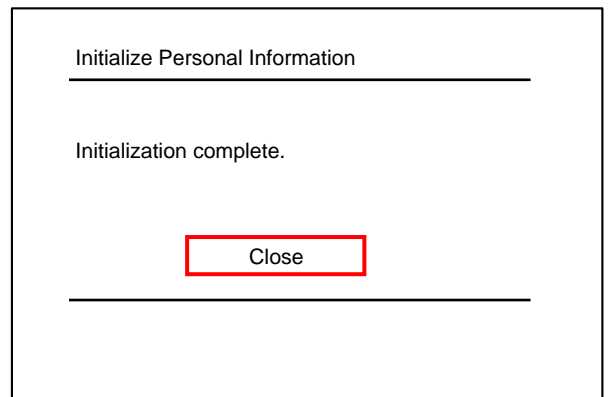
4. Select “Initialize Personal Information”, and press the [⊕] button on the remote commander.



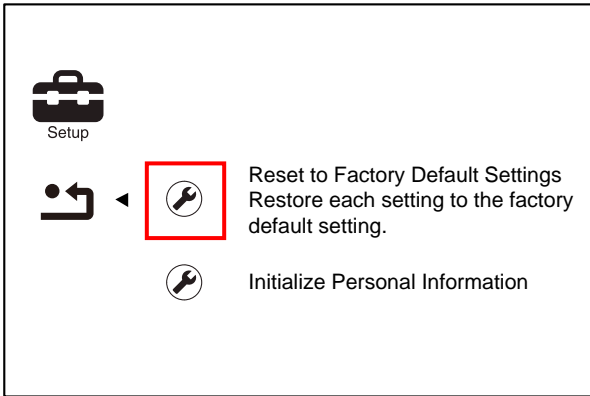
5. Select “OK”, and press the [⊕] button on the remote commander.



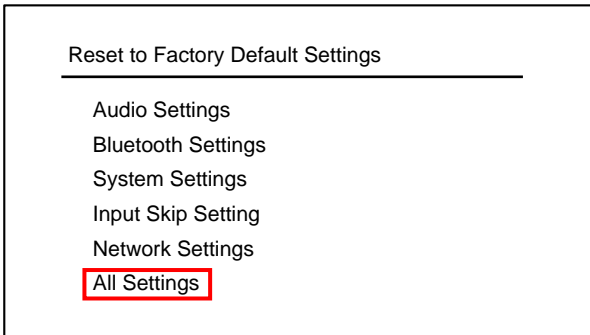
6. The message “Close” appears, and press the [⊕] button on the remote commander.



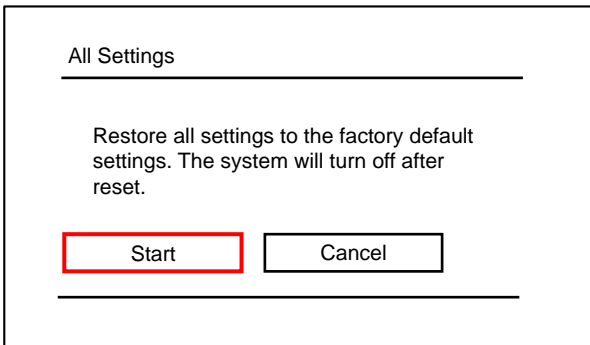
7. Select “Reset to Factory Default Settings”, and press the [⊕] button on the remote commander.



8. Select “All Settings”, and press the [⊕] button on the remote commander.



9. Select “Start”, and press the [⊕] button on the remote commander.



10. Initialization ends when the message “HELLO” on the fluorescent indicator tube disappears.

SVC SERVICE MODE

Note: The operation in this mode must use a remote commander and TV monitor.

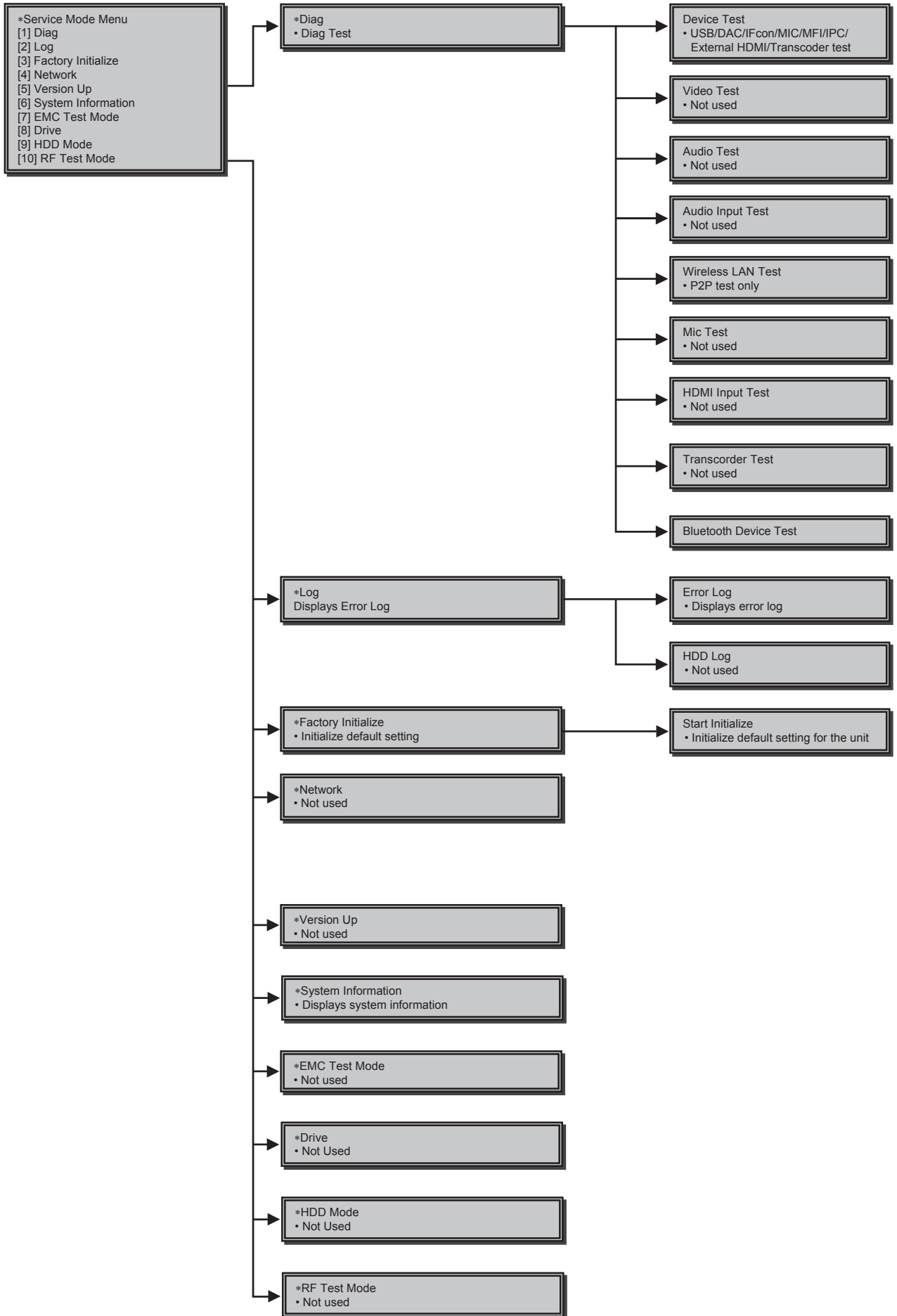
Setting method of the SVC service mode:

1. Connect this unit with the TV monitor.
2. Press the [I/⏻] button on the main unit to turn the power on.
3. Press button in order of the [■] → [DISPLAY] → [■] → [↑] on the remote commander.
(Make the interval when each button is pressed within two seconds).
4. The message “SVC” displayed on the fluorescent indicator tube. The OSD menu on TV monitor can be operated by the remote commander.

1. Main Functions

- Diag
Performs unit test of devices installed on the board.
- Log
Error log is displayed. Displayed contents can also be saved in an USB memory device.
- Factory Initialize
Restores the unit to its factory settings.
- Network
Not used.
- Version Up
Not used.
- System Information
Displays the system information of the unit.
Displays information such as the software version, drive information, etc.
- EMC Test Mode
Not used.
- Drive
Not used.
- HDD Mode
Not used.
- RF Test Mode
Not used.

2. Menu Tree



3. Service Mode Menu (Top Menu)

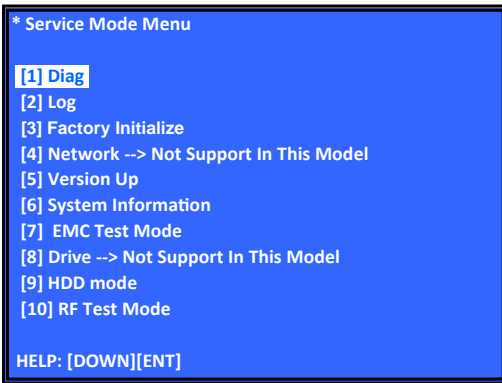
This is the top menu of service mode.

Each function is accessed from this screen.

Operation:

- [1] Moves to Diag screen
- [2] Moves to Log screen
- [3] Moves to Factory Initialize screen
- [4] Moves to Network screen
- [5] Moves to Version Up (USB version update) screen (Not used)
- [6] Moves to System Information screen
- [7] Moves to EMC test mode screen (Not used)
- [8] Moves to Drive screen (Not used)
- [9] Moves to HDD mode screen (Not used)
- [10] Moves to RF Test Mode (Not used)
- [↑]/[↓] Moves the cursor
- [⊕] Moves to the screen of the item selected with the cursor

* Cursor is not displayed when the menu is first displayed.



4. Diag (Device Test)

This screen is used to test devices mounted on the board.

Screen 1: Selects the test category

Operation:

- [←]/[→] Selects the category
- [↓]/[⊕] Moves to the selected category
- [RETURN] Returns to the service top menu

Screen 2: Device test

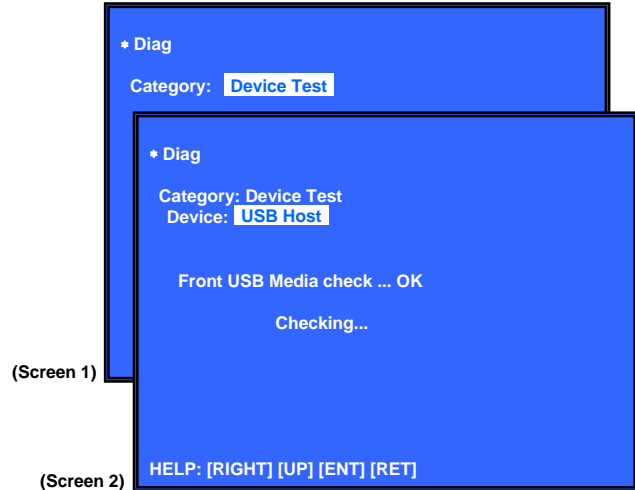
Selects the device to test after selecting Device Test in screen 1.

Operation:

- [←]/[→] Selects the device to test
- [⊕] Executes the test
- [↑] Returns to selection of test category
- [RETURN] Returns to selection of test category

- List of test categories

Device Test
 Video Test (Not used)
 Audio Test (Not used)
 Audio Input Test (Not used)
 Wireless LAN Test
 Mic Test (Not used)
 HDMI Input Test (Not used)
 Transcoder Test (Not used)
 Bluetooth Device Test



- Device Test: List of devices
- USB Host : USB media check (front). Only one time.

5. Diag (Wireless LAN Test)

This screen performs wireless LAN/Miracast test.

Screen 1: Selects Wireless LAN Test Category

Operation:

- [←]/[→] Selects the category
- [↓]/[⊕] Activate the selected category
- [RETURN] Returns to service top menu

Screen 2: Selects Wireless LAN Test

Operation:

- [1] Show Wireless LAN module Information (Not used)
- [2] Connect to Access Point (Not used)
- [3] Start display RSSI value (Not used)
- [4] Start Ping Test (Not used)
- [5] Write P2P Address to Registry
- [6] P2P Registry Check
- [↑]/[↓] Selects Test
- [⊕] Activate and Start Test
- [RETURN] Returns to test category selection

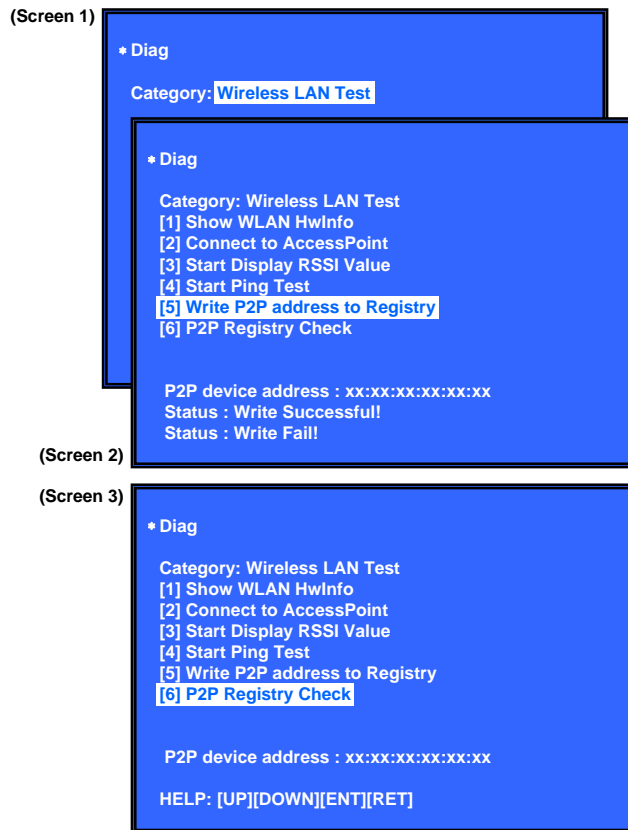
Screen 2: Store P2P device address to Registry

Display will show : P2P device address : "xx:xx:xx:xx:xx:xx"

- Viewing the Status display, if Successful : "Write Successful!"
- Fail: "Write Fail!"

Screen 3: P2P Registry Check

Show P2P device address "xx:xx:xx:xx:xx:xx"



6. Diag (MIC Input Test)

This screen performs MIC input test.
Note: Not used for the servicing.

7. Diag (HDMI Input Test)

This screen performs HDMI input test.
Note: Not used for the servicing.

8. Diag (Transcoder Test)

Note: Not used for the servicing.

9. Diag (Bluetooth Device Test)

This screen performs Bluetooth Device Test.

Screen 1: Select Bluetooth Device Test Category

Operation:

- [←]/[→] Selects the category
- [⊕] Activate the selected category
- [RETURN] Returns to the service top menu

Screen 2: Select Bluetooth Device Test

Operation:

- [1] Bluetooth Enable
- [2] Bluetooth Disable
- [3] Write Bluetooth device address to Registry.
- [4] Bluetooth Inquiry Test
- [↑]/[↓] Selects Device
- [⊕] Activate and Start Test
- [RETURN] Returns to test category selection

Screen 2: Select [1] Bluetooth Enable

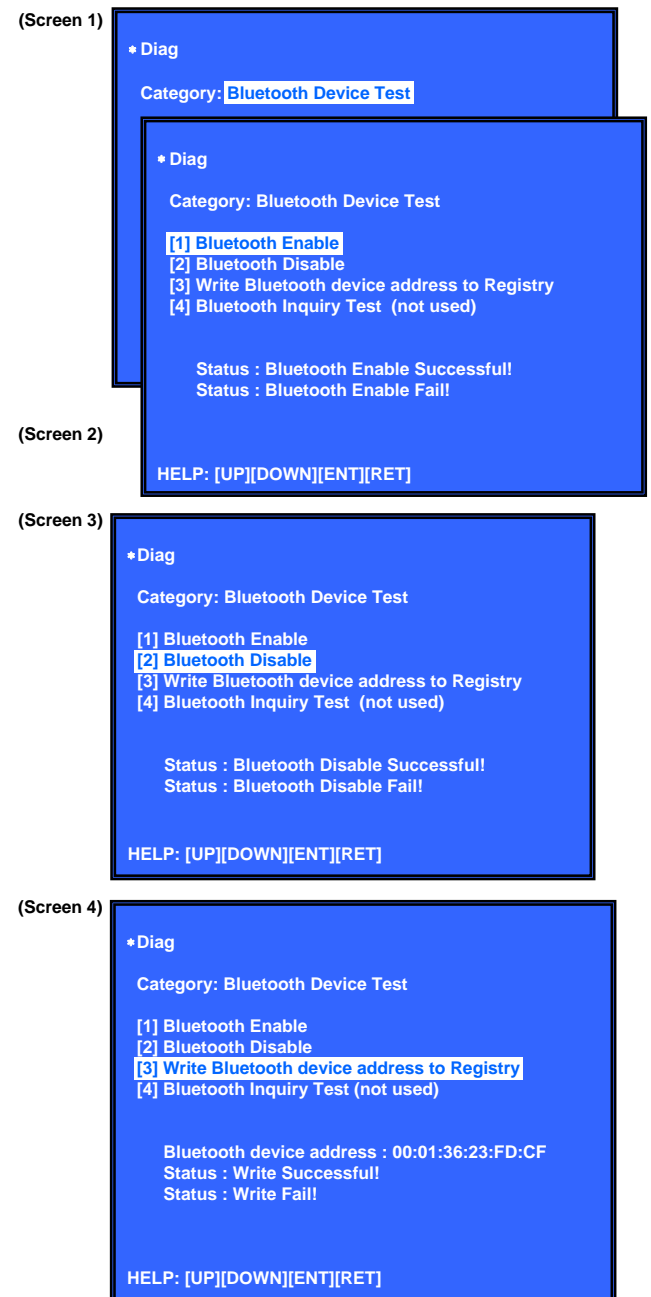
- Viewing the Status display, if Successful: “Bluetooth Enable Successful!”
Fail: “Bluetooth Enable Fail!”

Screen 3 : Select [2] Bluetooth Disable

- Viewing the Status display, if Successful: “Bluetooth Disable Successful!”
Fail: “Bluetooth Disable Fail!”

Screen 4 : Select [3] Write Bluetooth device address to Registry

- Display will show : Bluetooth device address : “xx:xx:xx:xx:xx:xx”
- Viewing the Status display, if Successful: “Write Successful!”
Fail: “Write Fail!”



10. Log: Error Log (Output of each Log)

This screen displays the contents of each log.
Note: Do not refer to the displayed date.

Screen 1: Selects log

Operation:

- [1]/[⊕] Moves to the Error Log output screen
- [RETURN] Returns to the top menu of the service mode

Screen 2: Displays the Error Log

Operation:

- [←] Returns to the previous page
- [→] Moves to the next page
- [RETURN] Returns to the screen (Screen 1) that selects the log type
- [RED] Writes the log contents to an USB memory device

- Viewing the log display

Error Log:

[174] 2010/01/01 00:00:08 [ErrCode:0902A4053002]
[Index number] [Date] [Time] [Error code]

About copying log to USB memory device:

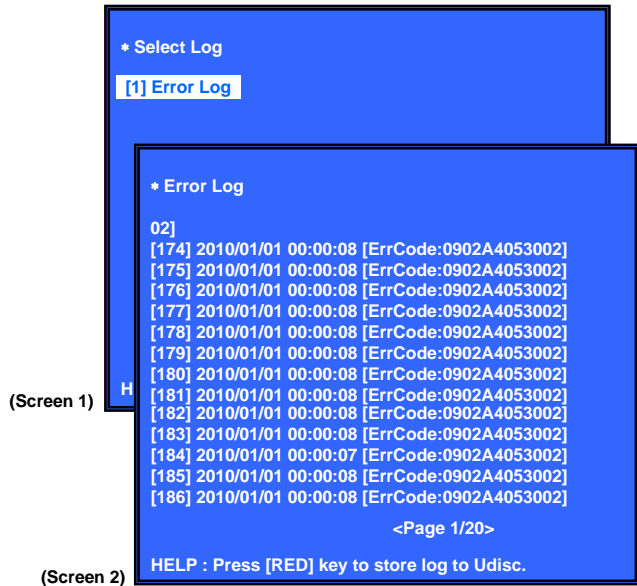
Press the [RED] button in each log display screen with the USB memory device inserted into the unit.

Note: Please do not press the [RED] button immediately after USB memory is inserted.

Please do not pull out USB memory immediately after the [RED] button was pressed.

Error Log:

When “getErrLogFile.trm file” exists in the USB memory device, errlog.log file is output.



14. Version Up Test (Disc Update)

This screen performs version update test.
Note: Not used for the servicing.

15. System Information (System Information Display)

This screen displays system information.

Screen 1: Basic Information

Operation:

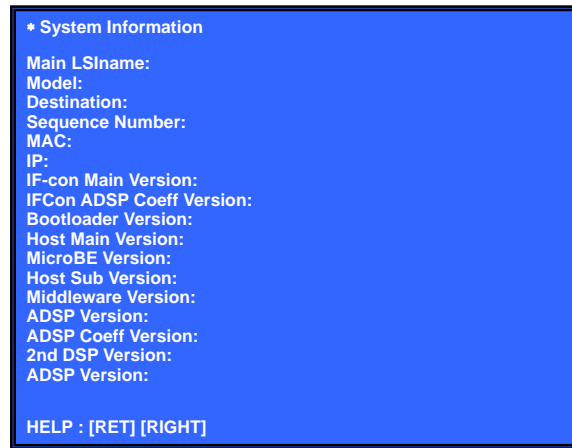
- [→] Basic Information displayed (go to Screen 2)
- [RETURN] Returns to service top menu

Screen 2: Basic Information (continue)

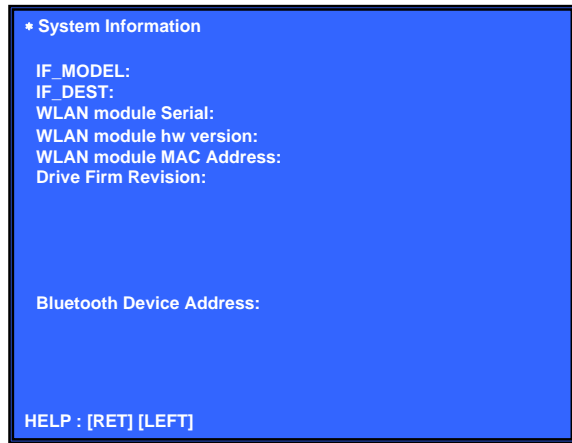
Operation:

- [←] Basic Information displayed (go to Screen 1)
- [RETURN] Returns to service top menu

(Screen 1)



(Screen 2)



11. Factory Initialize (Factory Settings)

Return all of the unit setting to their factory defaults (Refer to FACTORY INITIALIZE in page 21).

12. Network (Network Test Diagnosis Screen: Ifconfig)

Network menu for the wired ethernet.

Note: Not used for the servicing.

13. Network (Network Test Diagnosis Screen: Ping)

Ping test for the wired ethernet.

Note: Not used for the servicing.

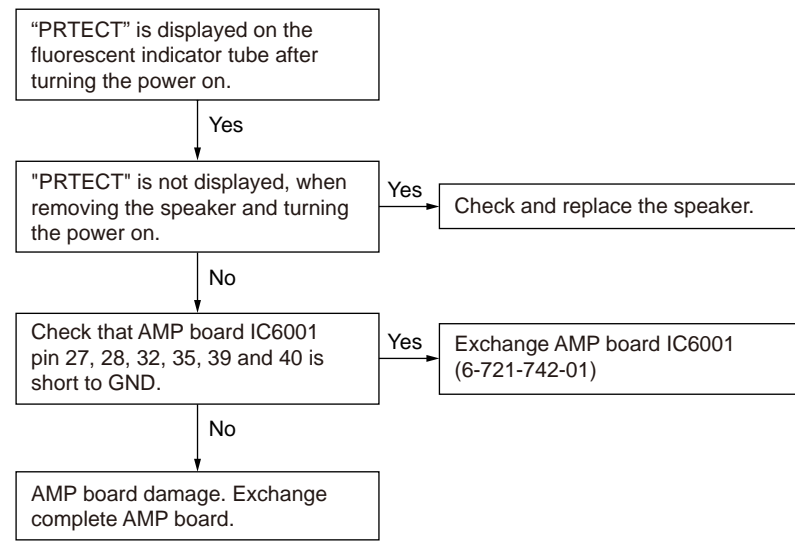
16. Drive

This menu is used to operate the drive using drive-related diagnostic and tools.

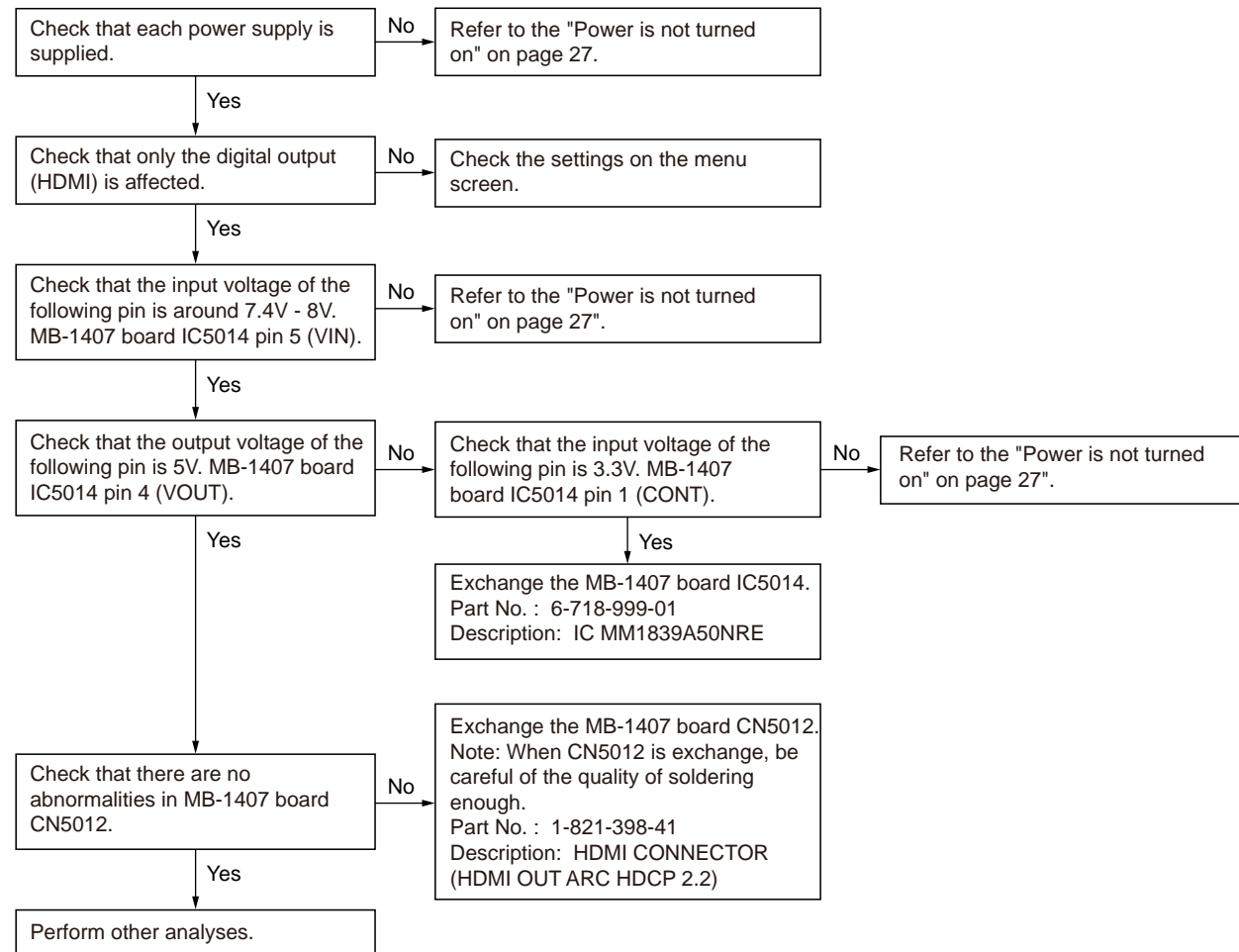
Note: Not used for the servicing.

SECTION 4 TROUBLESHOOTING

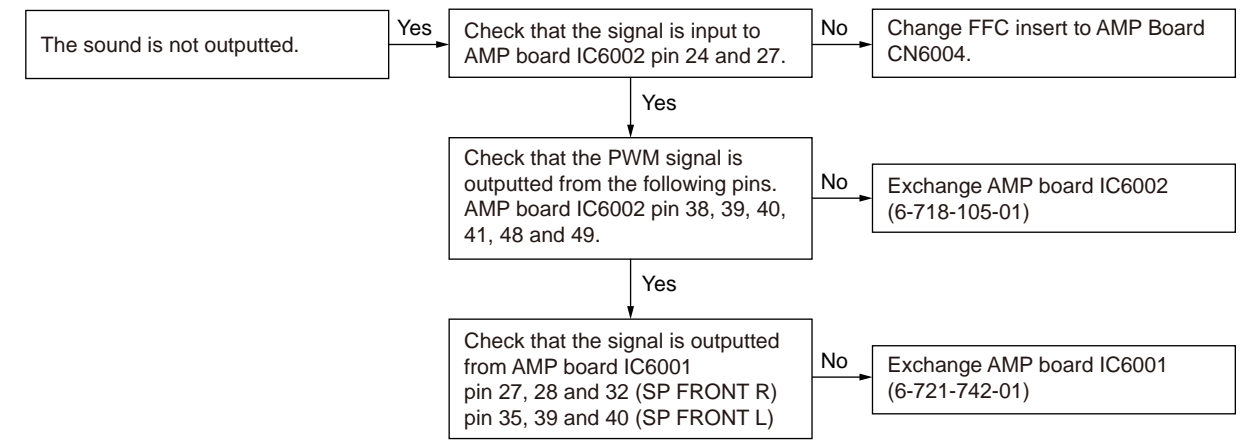
1. "PRTECT" is displayed on the fluorescent indicator tube after turning the power on



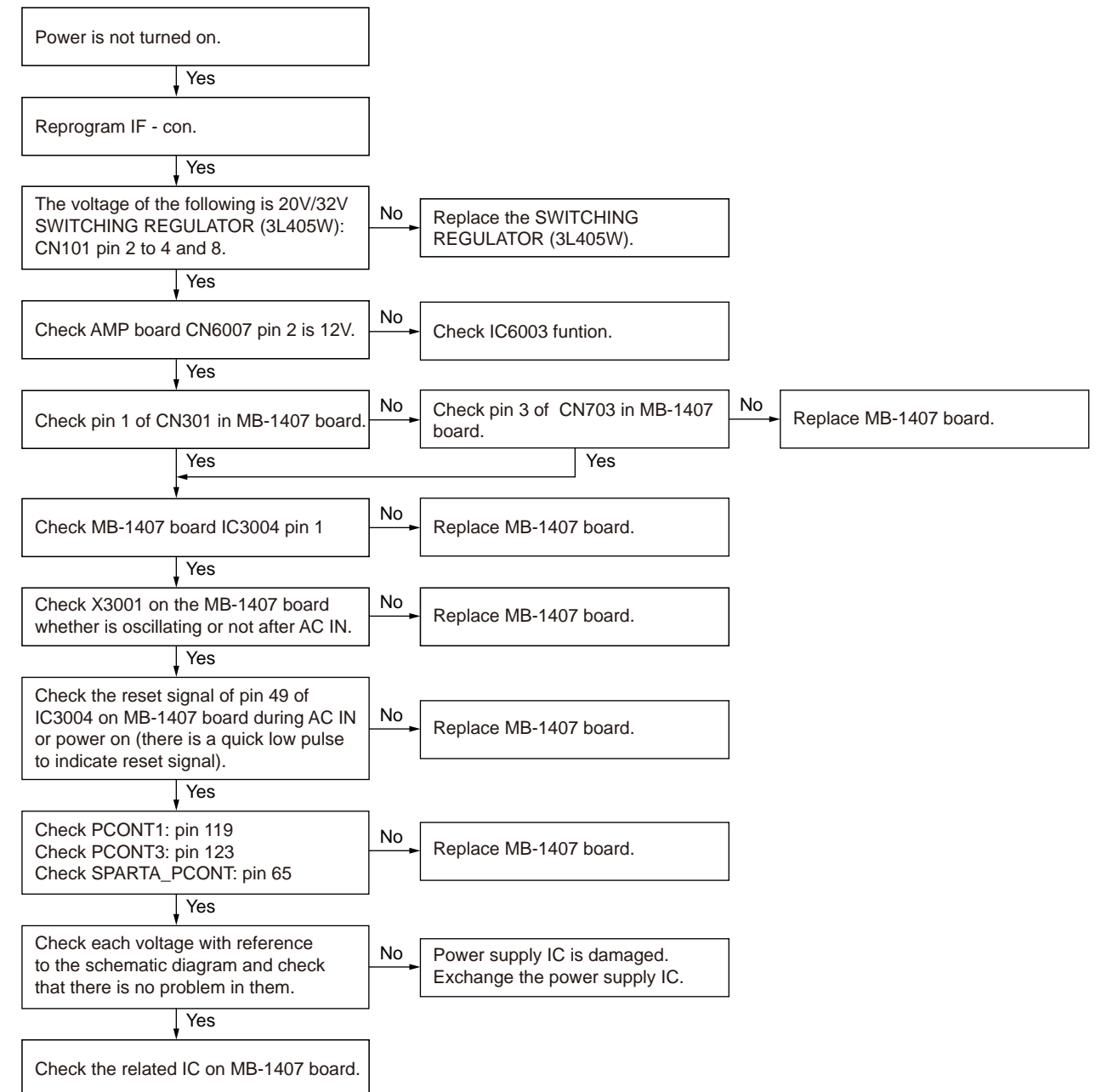
2. The video of HDMI is not displayed normally



3. The sound is not outputted

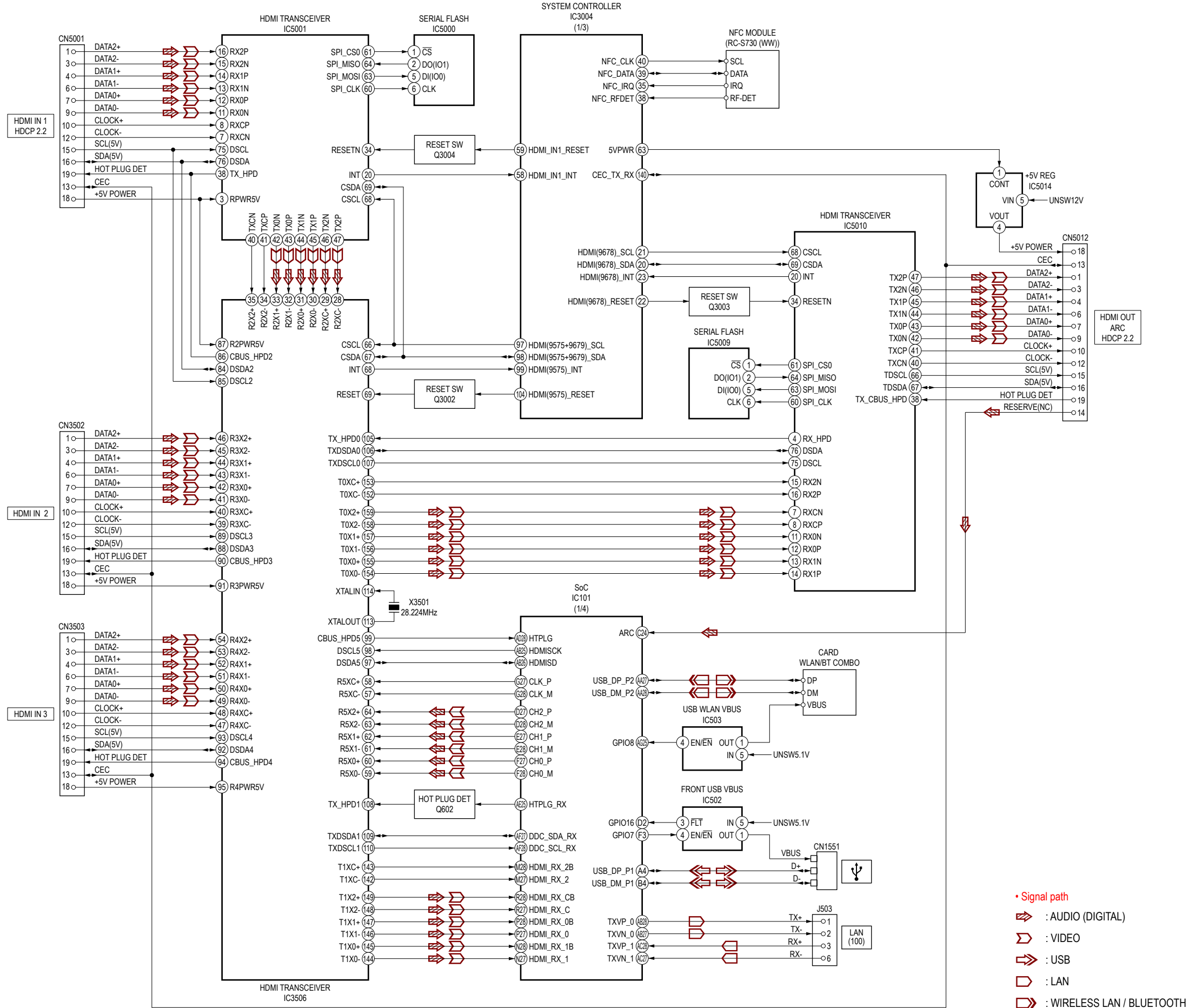


4. Power is not turned on

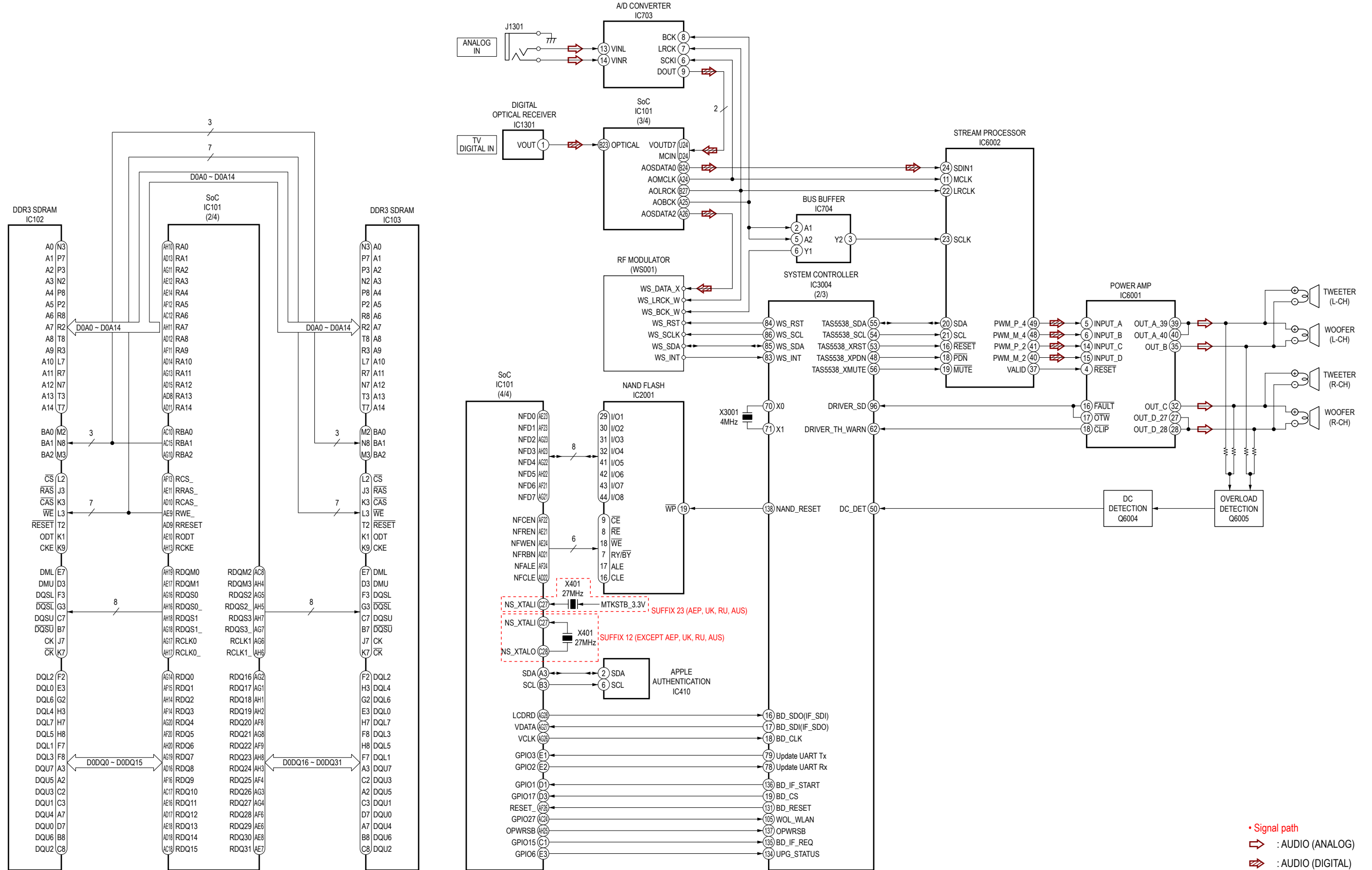


SECTION 5 DIAGRAMS

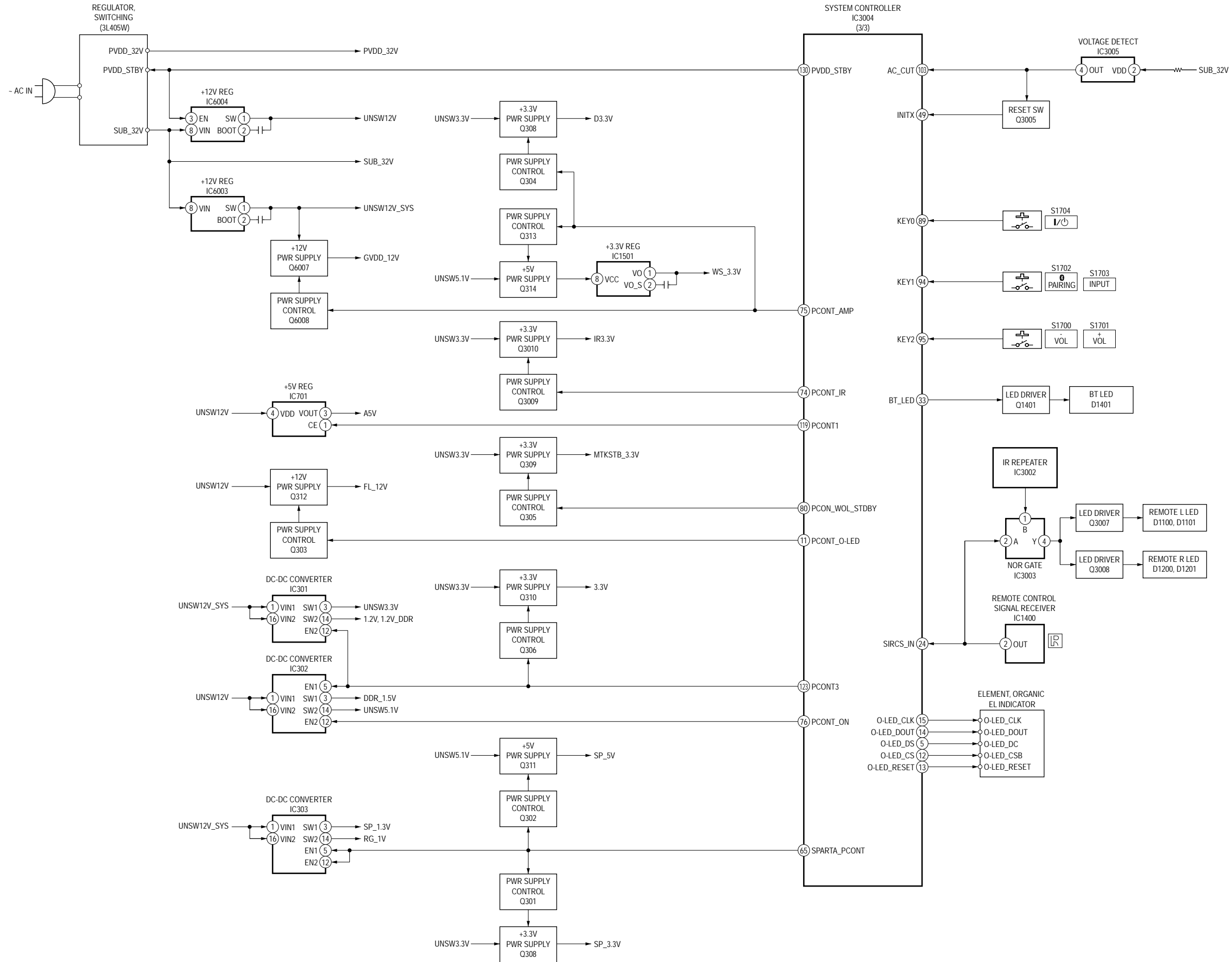
5-1. BLOCK DIAGRAM - HDMI/USB/NETWORK Section -



5-2. BLOCK DIAGRAM - MEMORY/AUDIO/AMP Section -



5-3. BLOCK DIAGRAM - PANEL/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.

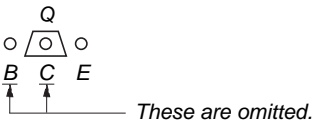
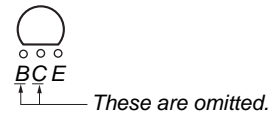
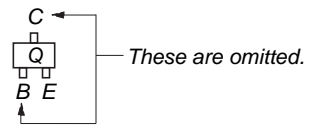
Note:

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

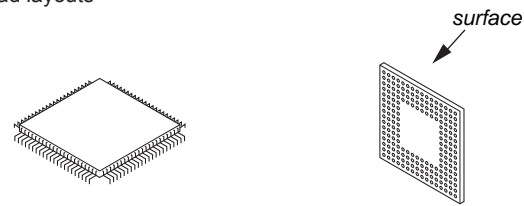
Caution:

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

- MB-1407 board is multi-layer printed board. However, the patterns of intermediate layers have not been included in diagrams.
- Indication of transistor.



• Lead layouts



Lead layout of conventional IC CSP (Chip Size Package)

* Replacement of IC102 and IC103 on the MB1306 board used in this unit requires a special tool.

• Abbreviation

- AUS : Australian model
- CND : Canadian model
- E3 : 240V AC area in E model
- EA : Saudi Arabia model
- LA9 : Latin-American model
- RU : Russian model
- SP : Singapore model
- TW : Taiwan model

Note 1: When the complete AMP board is replaced, refer to "NOTE OF REPLACING THE IC6001 ON THE AMP BOARD AND THE COMPLETE AMP BOARD" on page 5.

Note 2: When the C6078 and C6079 on the AMP board are replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on page 5.

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.
- Components for right channel have same values as for left channel. Reference numbers are coded from
- △: 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.

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

- —: B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark: POWER ON
- 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.
 - ⇒ : AUDIO (ANALOG)
 - ⇒ : AUDIO (DIGITAL)
 - ⇒ : VIDEO
 - ⇒ : LAN
 - ⇒ : WIRELESS LAN / BLUETOOTH
 - ⇒ : USB
- The voltage and waveform of CSP (chip size package) cannot be measured, because its lead layout is different from that of conventional IC.

* Replacement of IC102 and IC103 on the MB1306 board used in this unit requires a special tool.

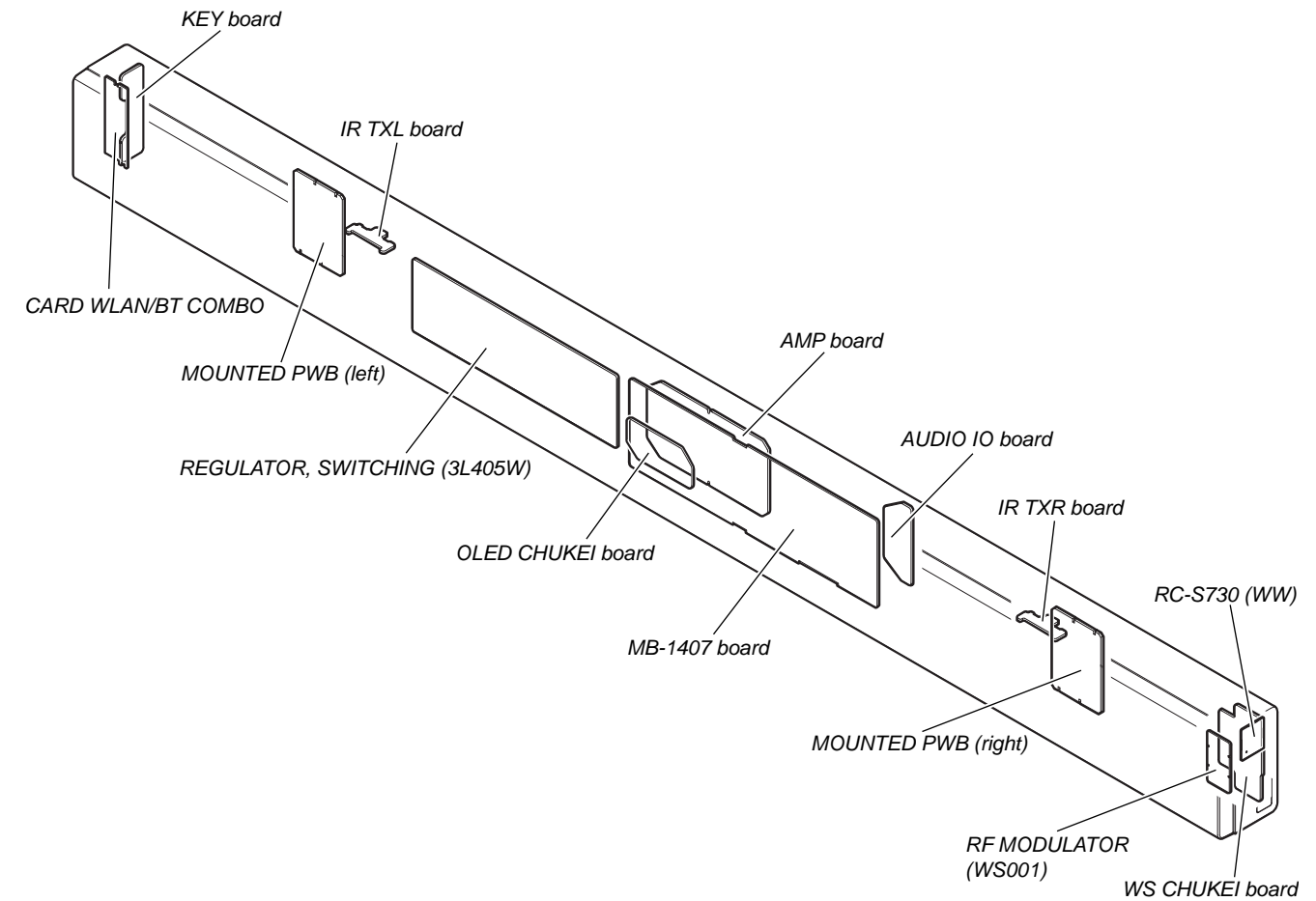
• Abbreviation

- AUS : Australian model
- CND : Canadian model
- E3 : 240V AC area in E model
- EA : Saudi Arabia model
- LA9 : Latin-American model
- RU : Russian model
- SP : Singapore model
- TW : Taiwan model

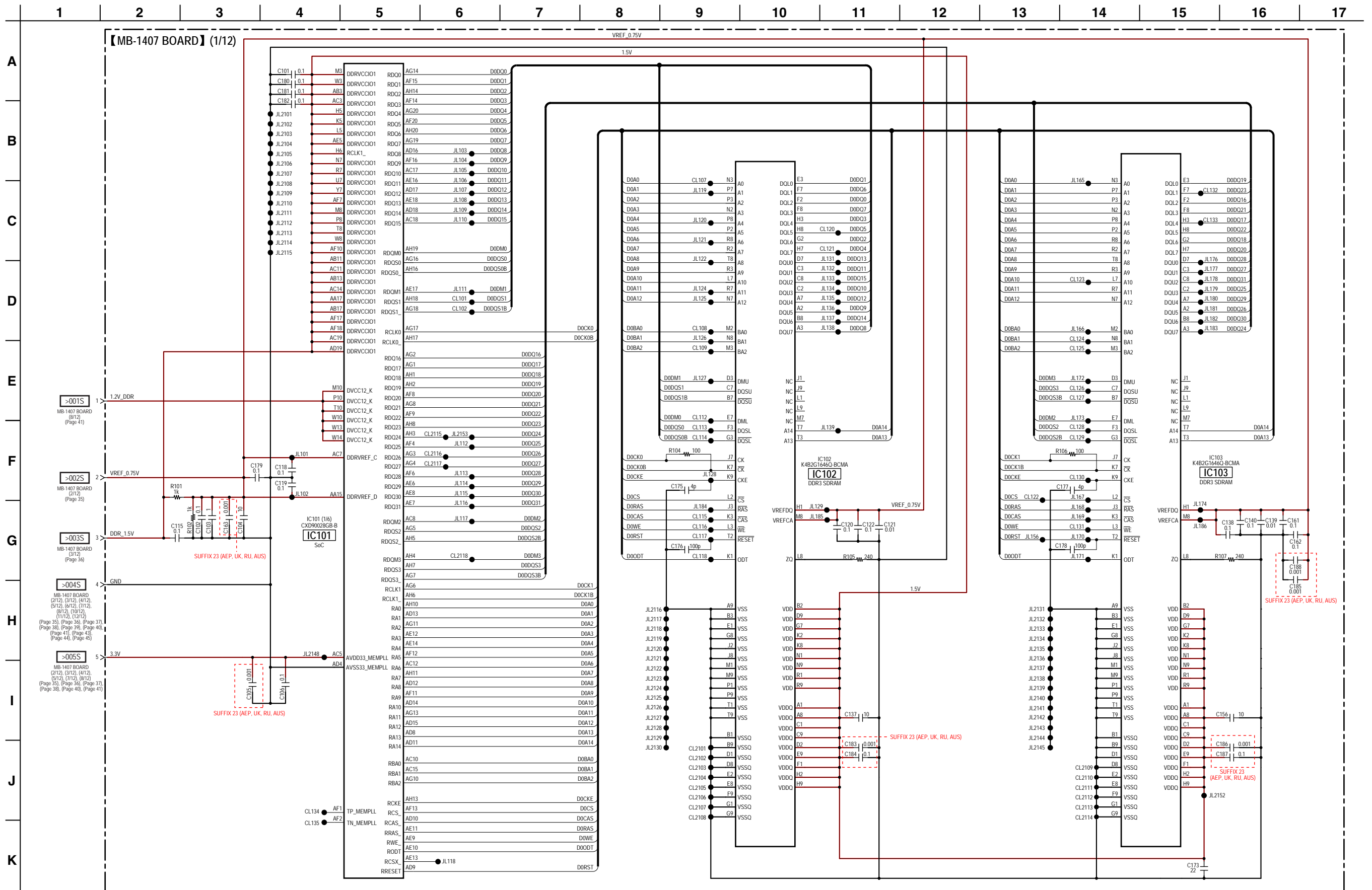
Note 1: When the complete AMP board is replaced, refer to "NOTE OF REPLACING THE IC6001 ON THE AMP BOARD AND THE COMPLETE AMP BOARD" on page 5.

Note 2: When the C6078 and C6079 on the AMP board are replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on page 5.

• Circuit Boards Location



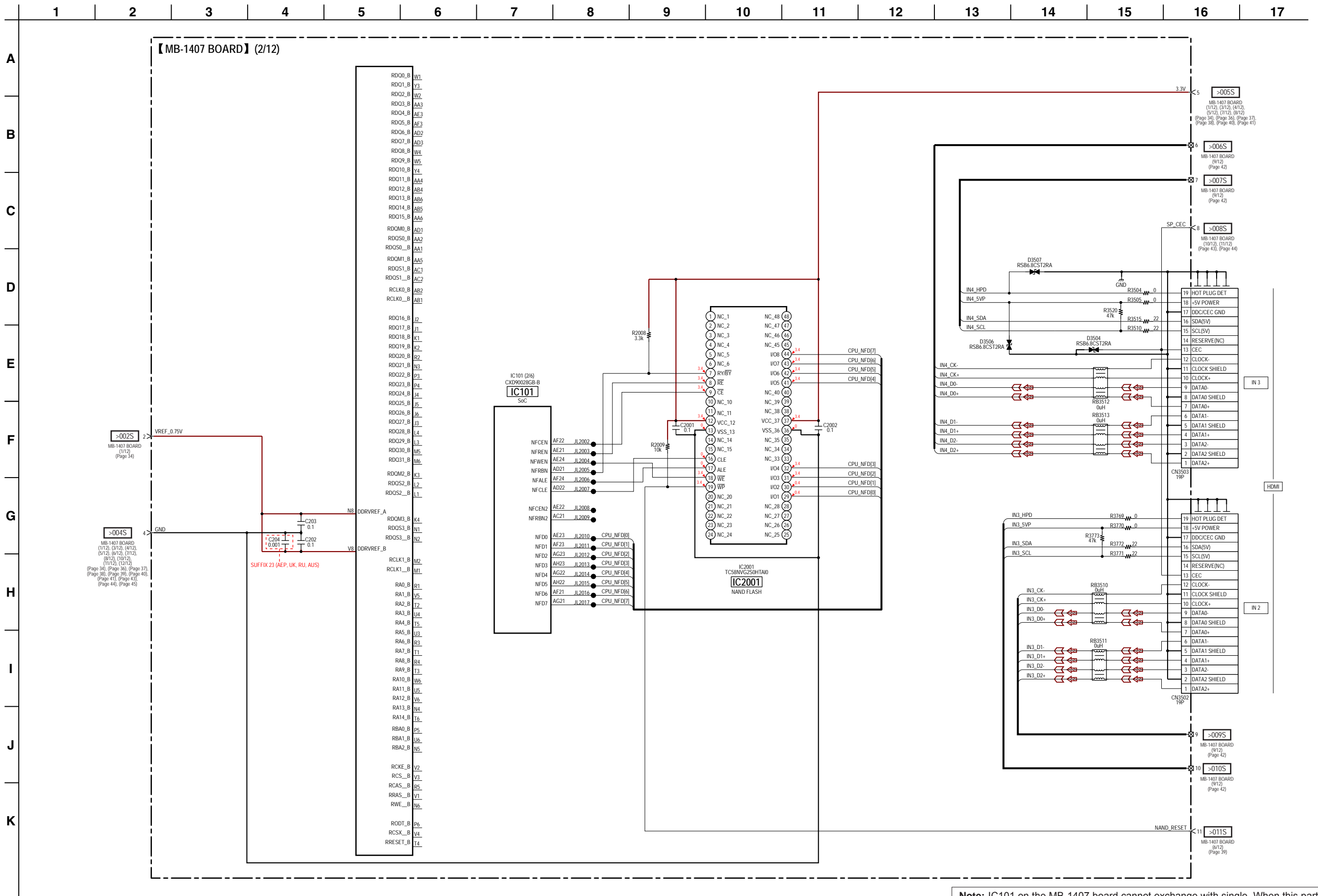
5-6. SCHEMATIC DIAGRAM - MB-1407 Board (1/12) - • See page 58 for IC Pin Function Descriptions.



Note 1: IC101, IC102 and IC103 on the MB-1407 board cannot exchange with single. When these parts on the MB-1407 board are damaged, exchange the entire mounted board.

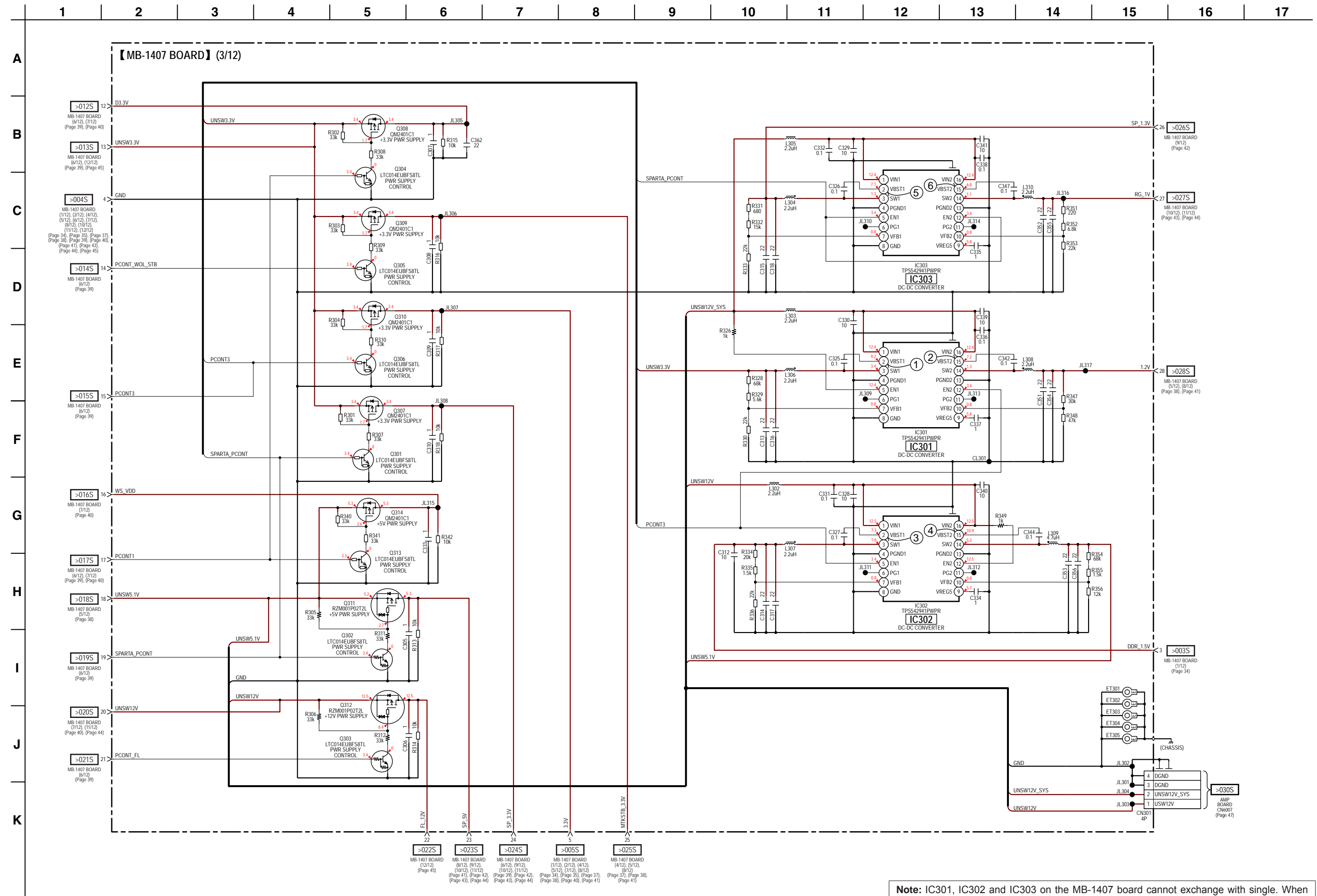
Note 2: Replacement of IC102 and IC103 on the MB-1407 board used in this unit requires a special tool.

5-7. SCHEMATIC DIAGRAM - MB-1407 Board (2/12) - • See page 54 for IC Block Diagrams. • See page 58 for IC Pin Function Descriptions.



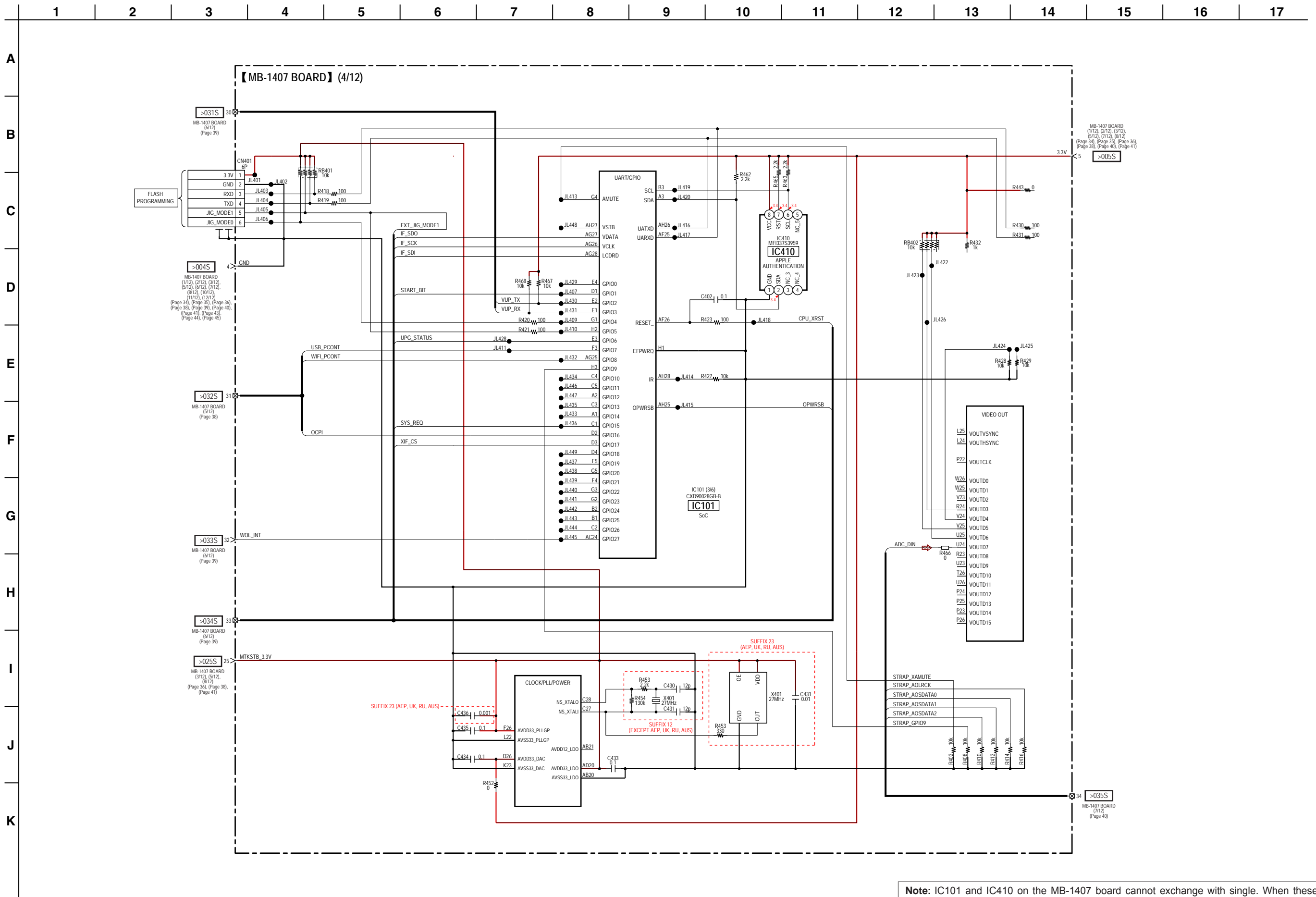
Note: IC101 on the MB-1407 board cannot exchange with single. When this part on the MB-1407 board is damaged, exchange the entire mounted board.

5-8. SCHEMATIC DIAGRAM - MB-1407 Board (3/12) - • See page 53 for Waveforms.



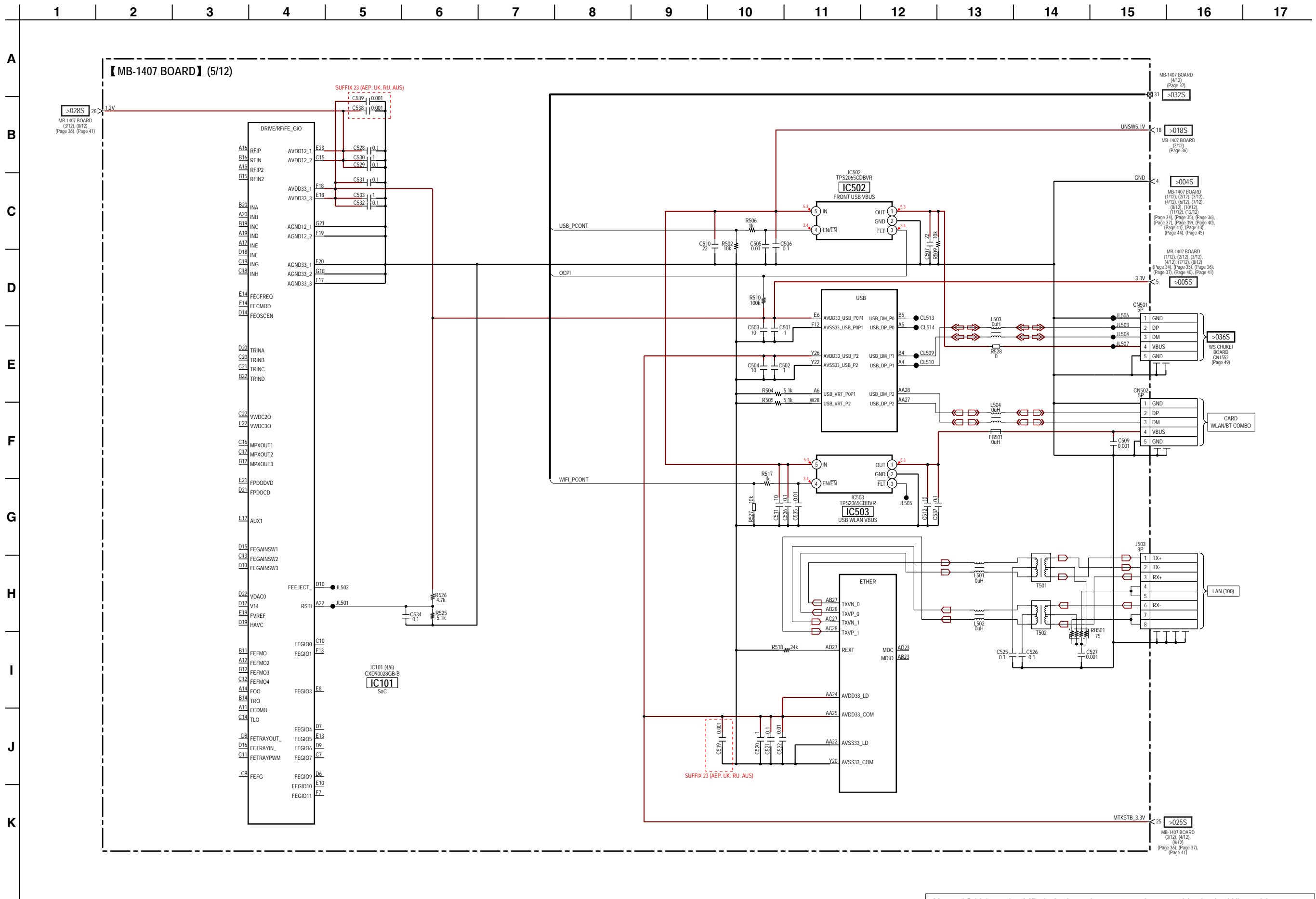
Note: IC301, IC302 and IC303 on the MB-1407 board cannot exchange with single. When these parts on the MB-1407 board are damaged, exchange the entire mounted board.

5-9. SCHEMATIC DIAGRAM - MB-1407 Board (4/12) - See page 58 for IC Pin Function Descriptions.



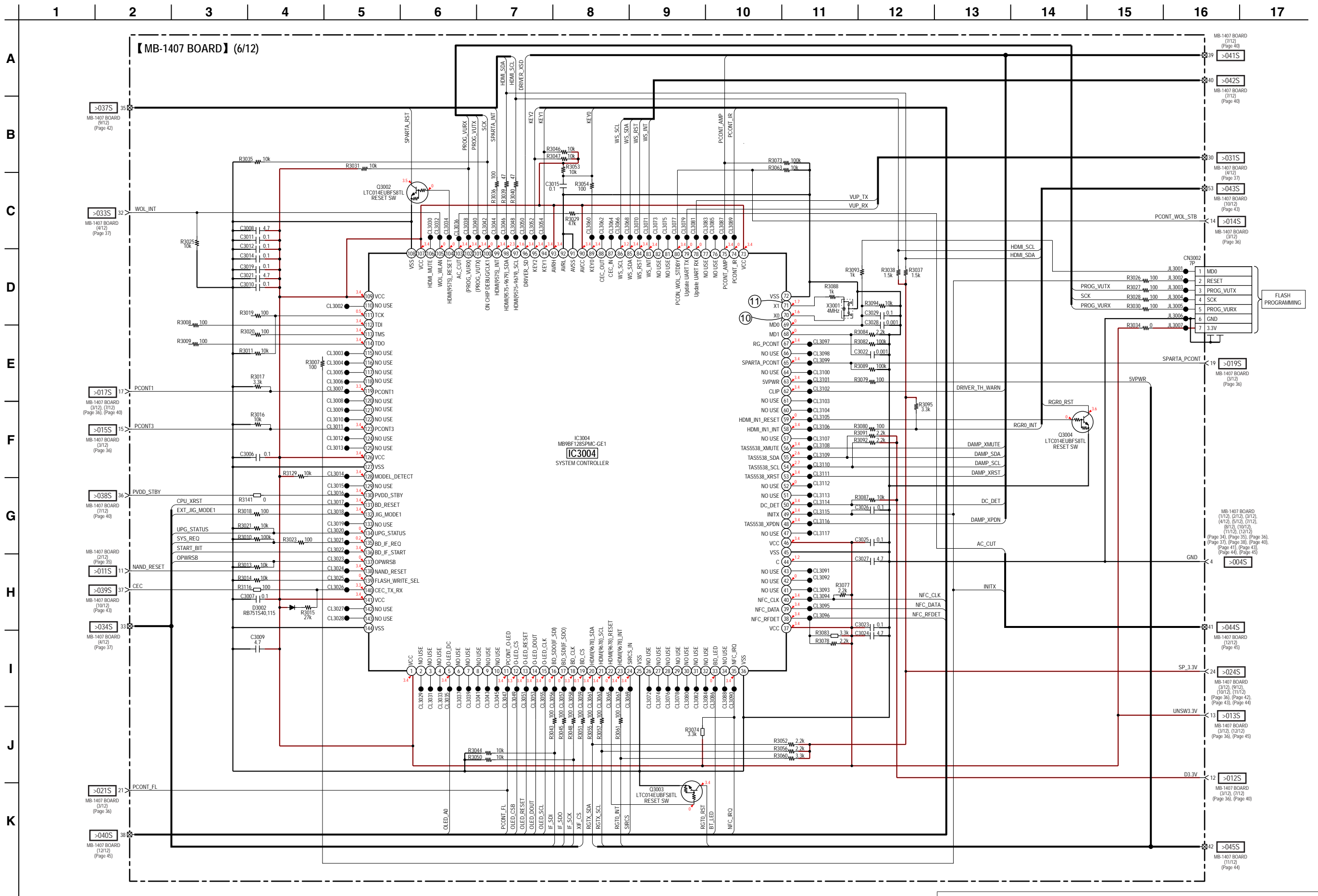
Note: IC101 and IC410 on the MB-1407 board cannot exchange with single. When these parts on the MB-1407 board are damaged, exchange the entire mounted board.

5-10. SCHEMATIC DIAGRAM - MB-1407 Board (5/12) - • See page 54 for IC Block Diagrams. • See page 58 for IC Pin Function Descriptions.



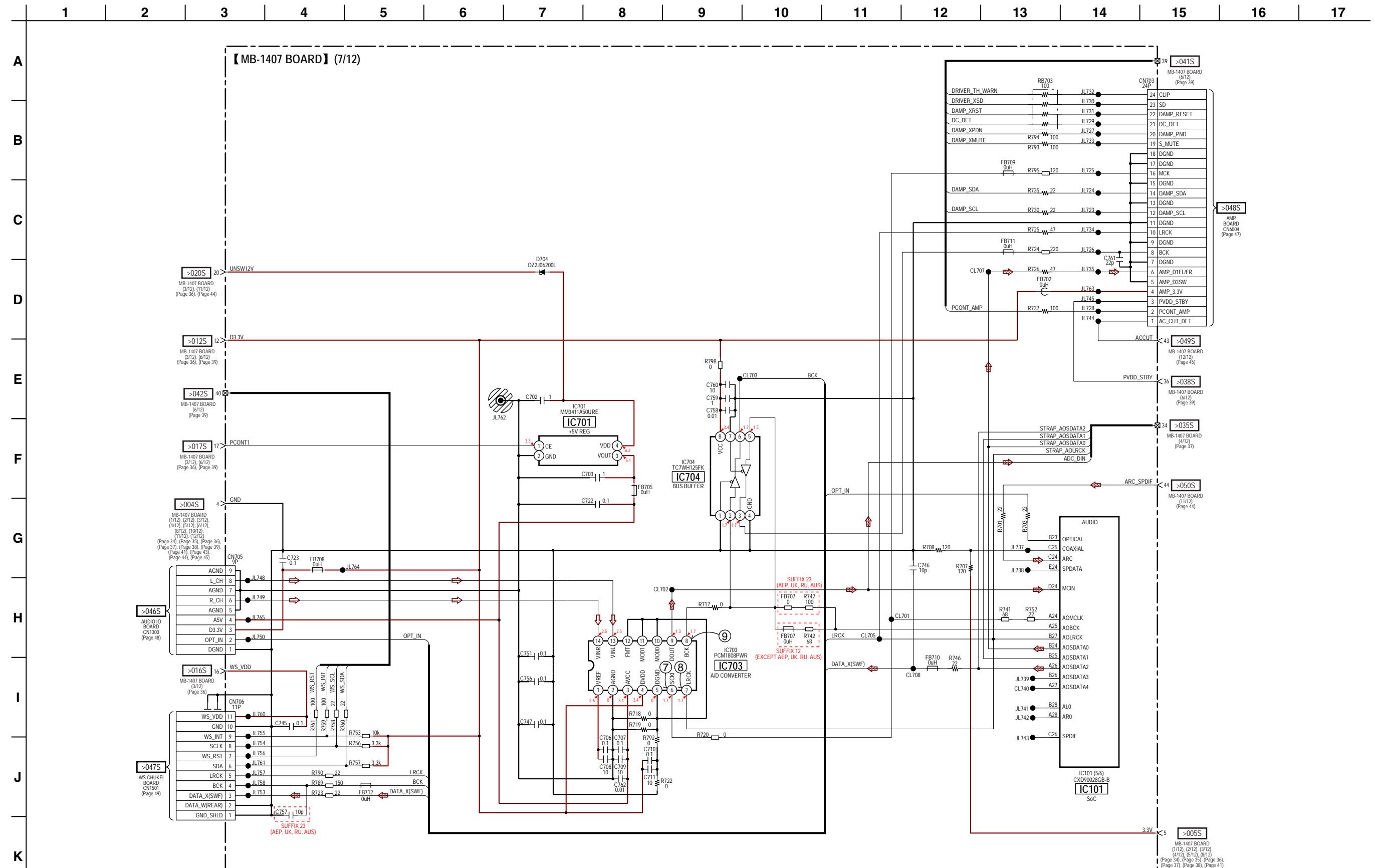
Note: IC101 on the MB-1407 board cannot exchange with single. When this part on the MB-1407 board is damaged, exchange the entire mounted board.

5-11. SCHEMATIC DIAGRAM - MB-1407 Board (6/12) - See page 53 for Waveforms. See page 58 for IC Pin Function Descriptions.



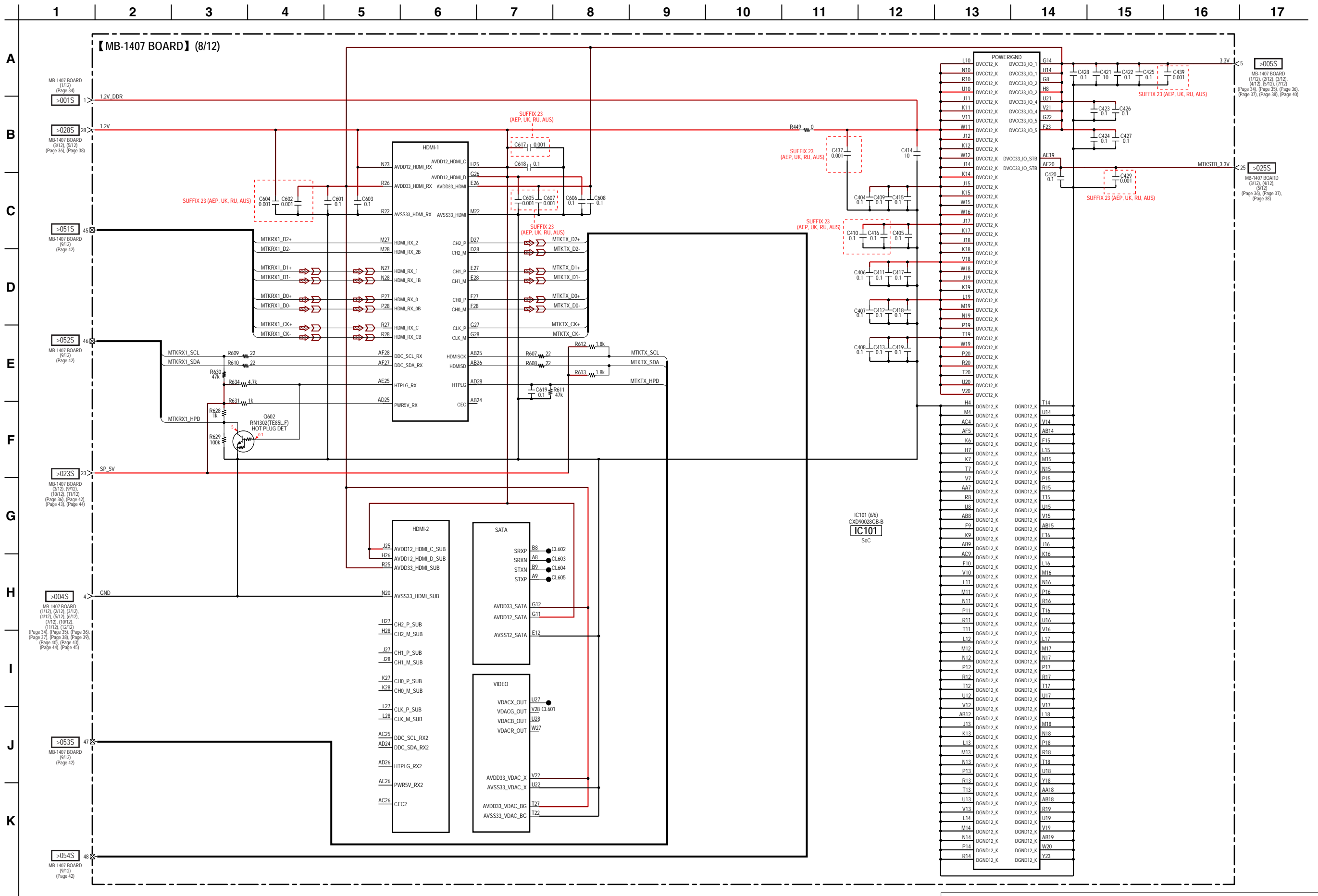
Note: IC3004 on the MB-1407 board cannot exchange with single. When this part on the MB-1407 board is damaged, exchange the entire mounted board.

5-12. SCHEMATIC DIAGRAM - MB-1407 Board (7/12) - • See page 53 for Waveforms. • See page 54 for IC Block Diagrams. • See page 58 for IC Pin Function Descriptions.



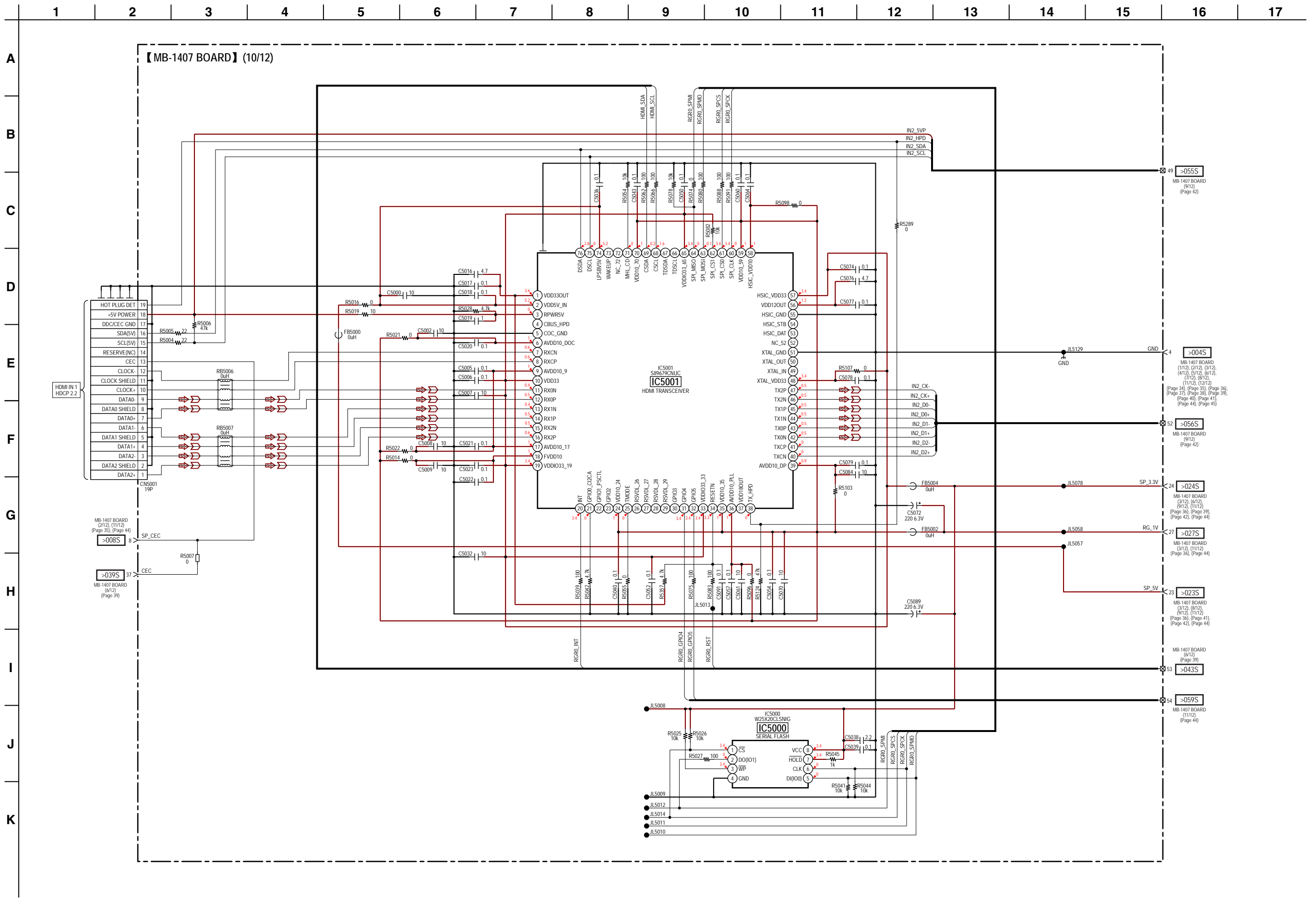
Note: IC101 on the MB-1407 board cannot exchange with single. When this part on the MB-1407 board is damaged, exchange the entire mounted board.

5-13. SCHEMATIC DIAGRAM - MB-1407 Board (8/12) - • See page 58 for IC Pin Function Descriptions.

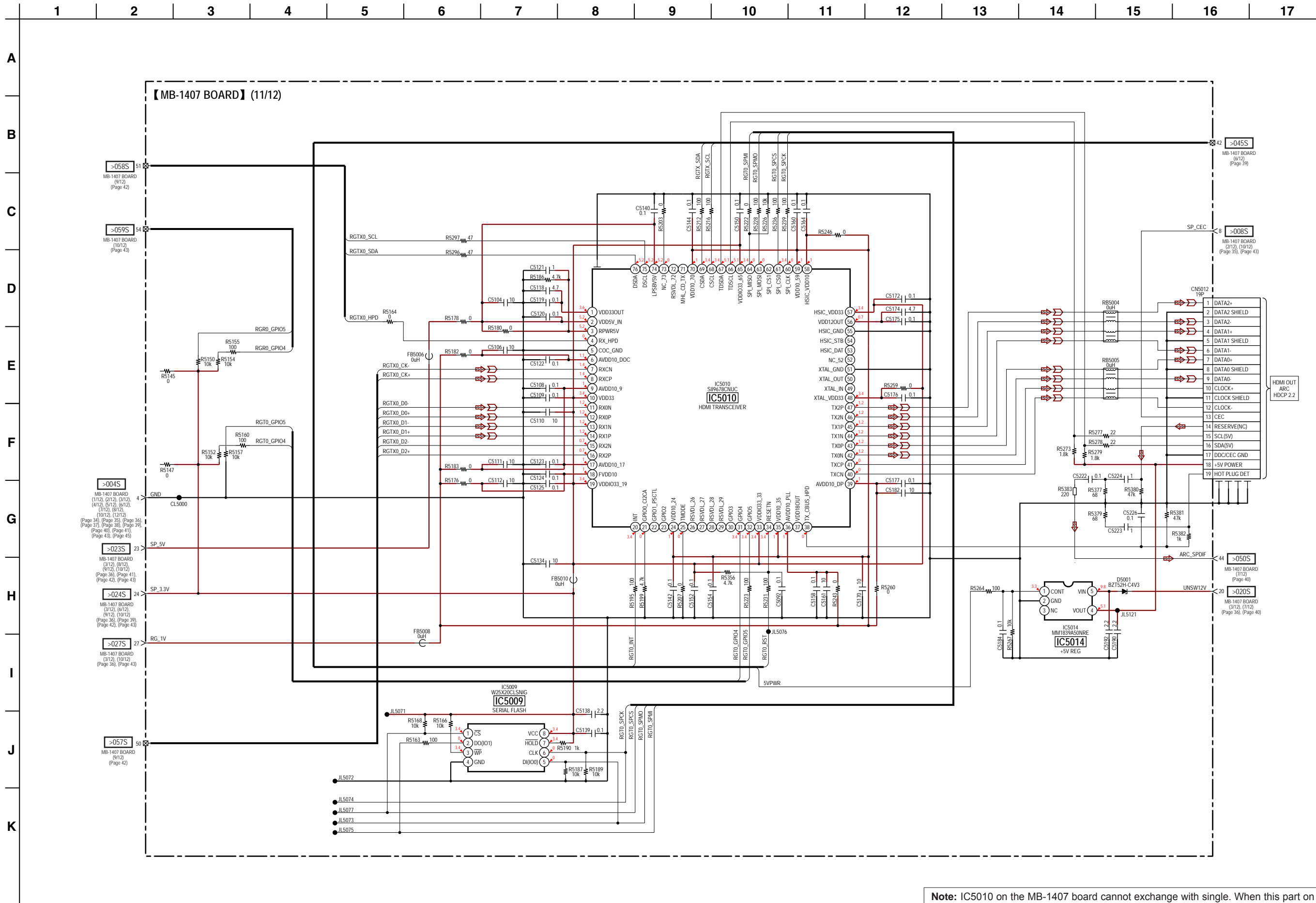


Note: IC101 on the MB-1407 board cannot exchange with single. When this part on the MB-1407 board is damaged, exchange the entire mounted board.

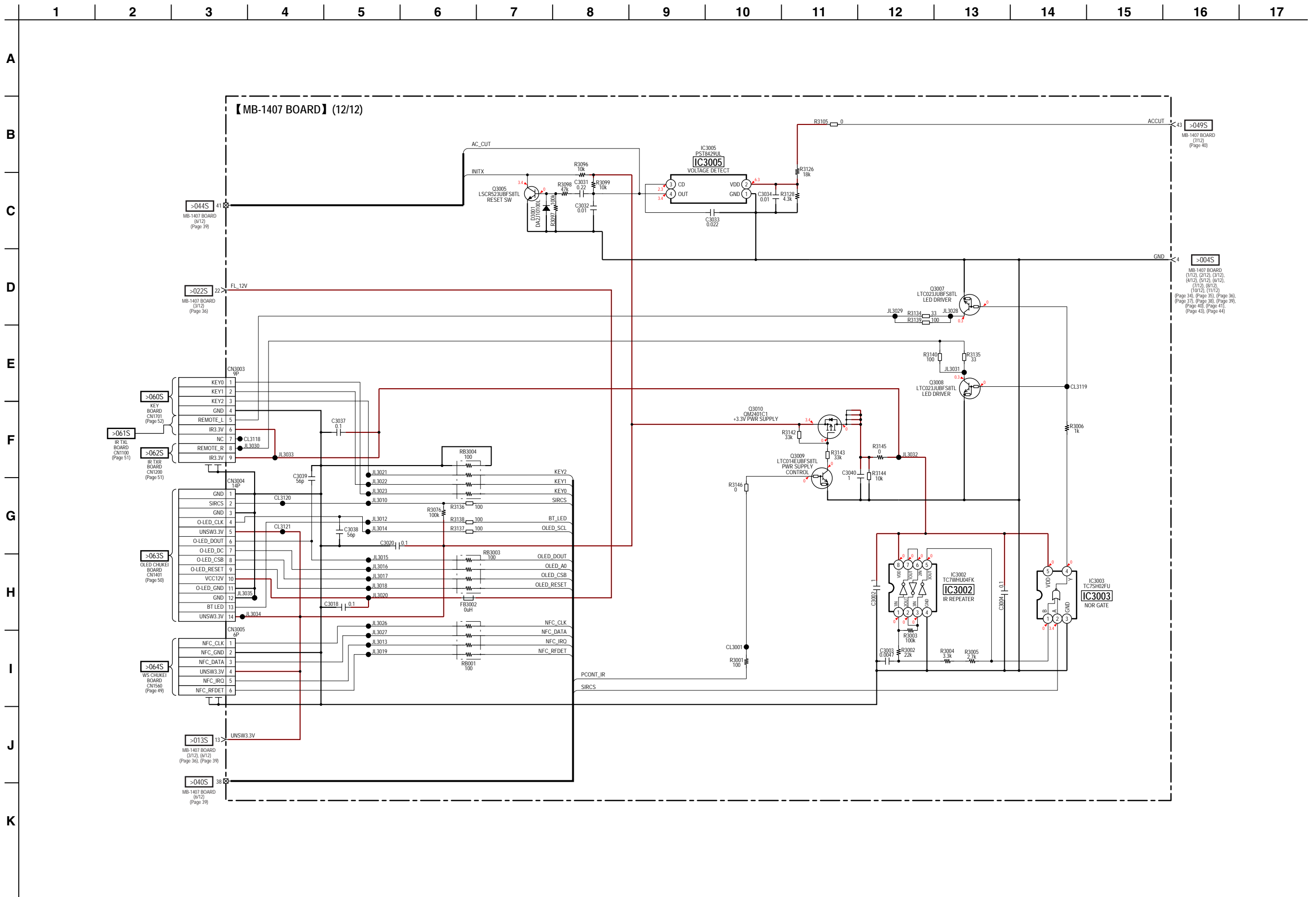
5-15. SCHEMATIC DIAGRAM - MB-1407 Board (10/12) - • See page 54 for IC Block Diagrams.



5-16. SCHEMATIC DIAGRAM - MB-1407 Board (11/12) - See page 54 for IC Block Diagrams.



5-17. SCHEMATIC DIAGRAM - MB-1407 Board (12/12) - • See page 54 for IC Block Diagrams.

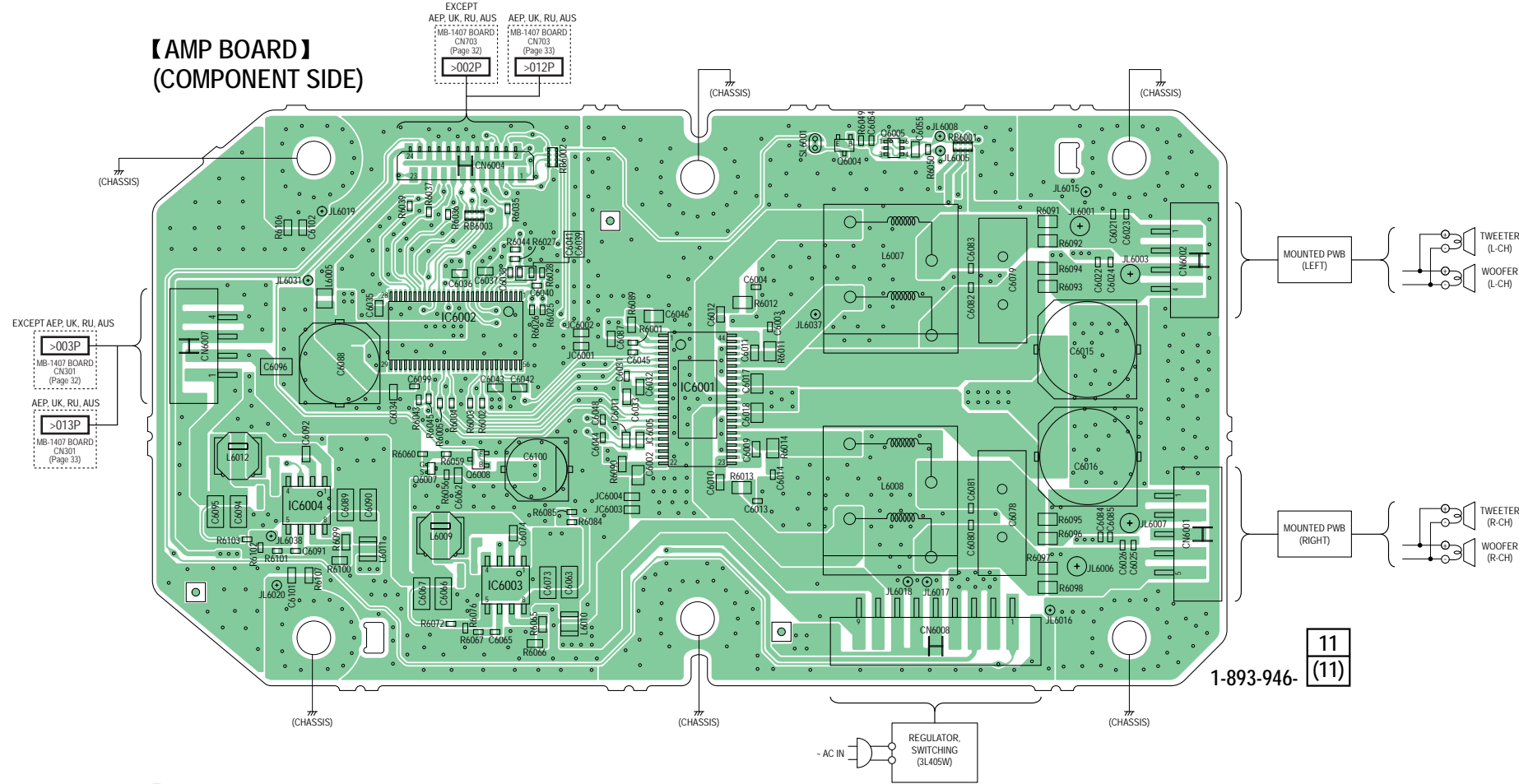


5-18. PRINTED WIRING BOARD - AMP Board - • See page 31 for Circuit Boards Location. •  : Uses unleaded solder.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
--	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----

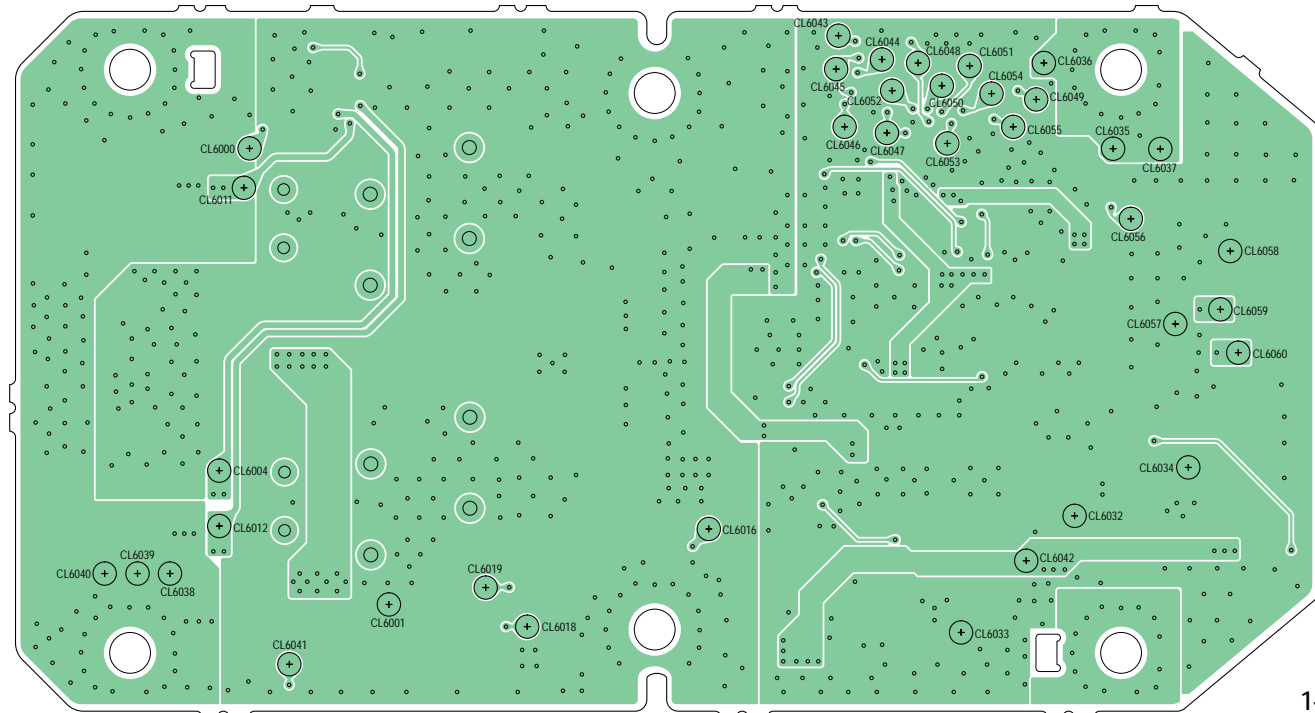
A
B
C
D
E
F
G
H
I
J
K

**【AMP BOARD】
(COMPONENT SIDE)**



1-893-946-11
(11)

**【AMP BOARD】
(CONDUCTOR SIDE)**

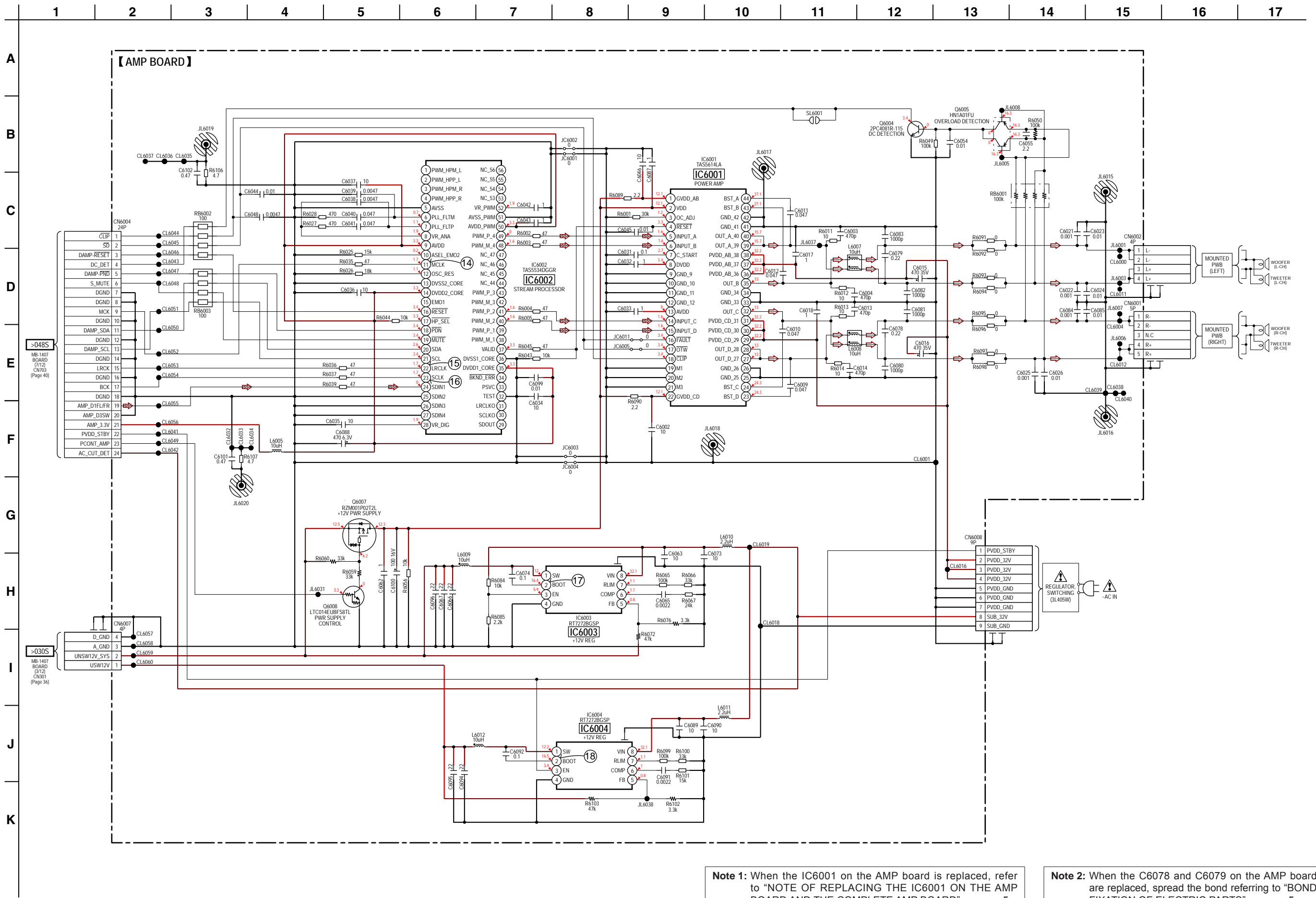


1-893-946-11
(11)

Note 1: When the IC6001 on the AMP board is replaced, refer to "NOTE OF REPLACING THE IC6001 ON THE AMP BOARD AND THE COMPLETE AMP BOARD" on page 5.

Note 2: When the C6078 and C6079 on the AMP board are replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on page 5.

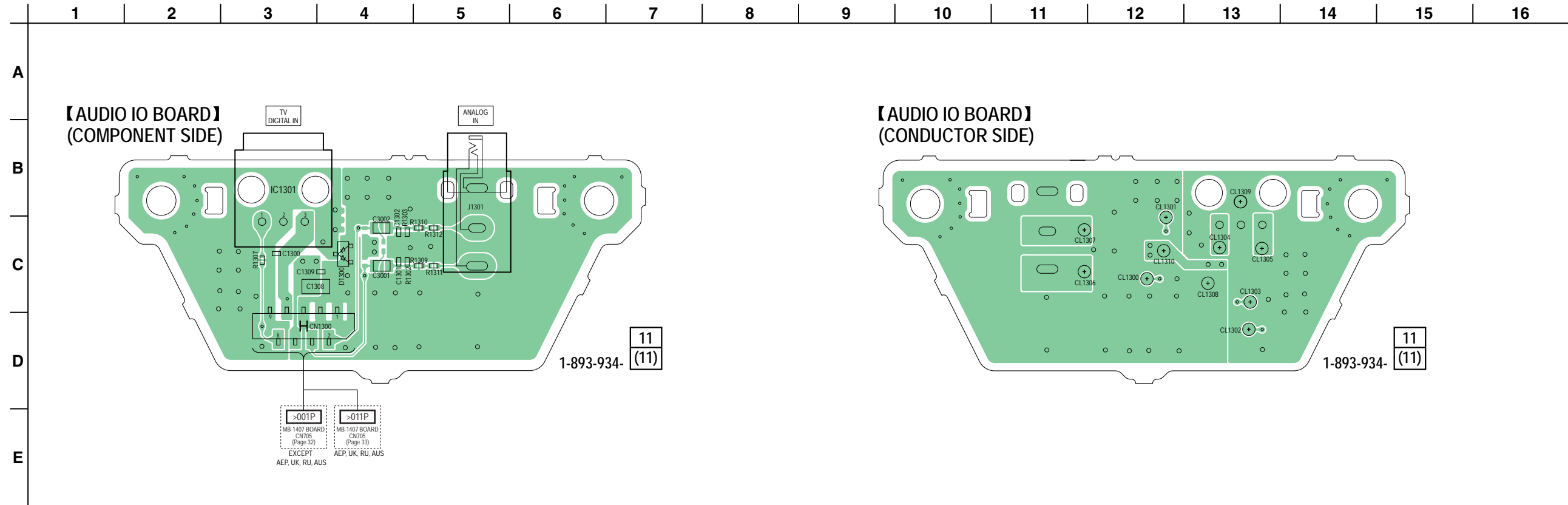
5-19. SCHEMATIC DIAGRAM - AMP Board - • See page 53 for Waveforms. • See page 54 for IC Block Diagrams.



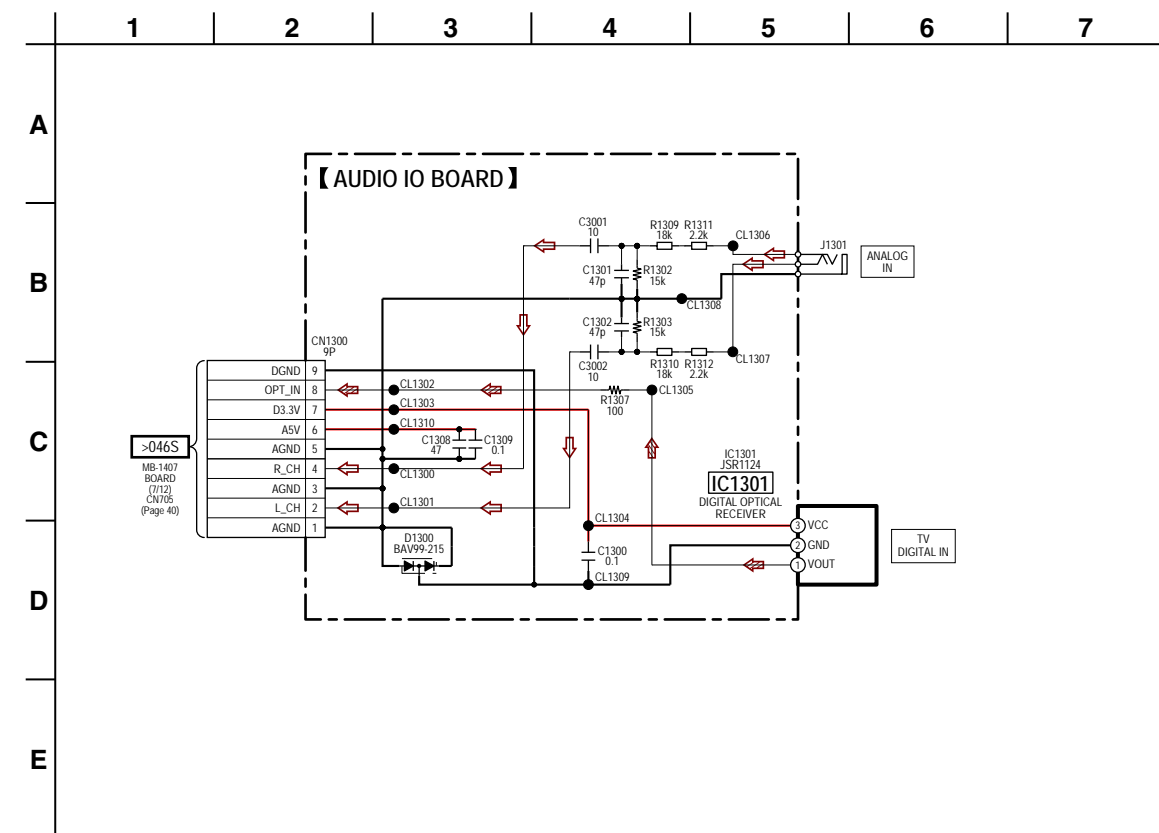
Note 1: When the IC6001 on the AMP board is replaced, refer to "NOTE OF REPLACING THE IC6001 ON THE AMP BOARD AND THE COMPLETE AMP BOARD" on page 5.

Note 2: When the C6078 and C6079 on the AMP board are replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on page 5.

5-20. PRINTED WIRING BOARD - AUDIO IO Board - • See page 31 for Circuit Boards Location. •  : Uses unleaded solder.

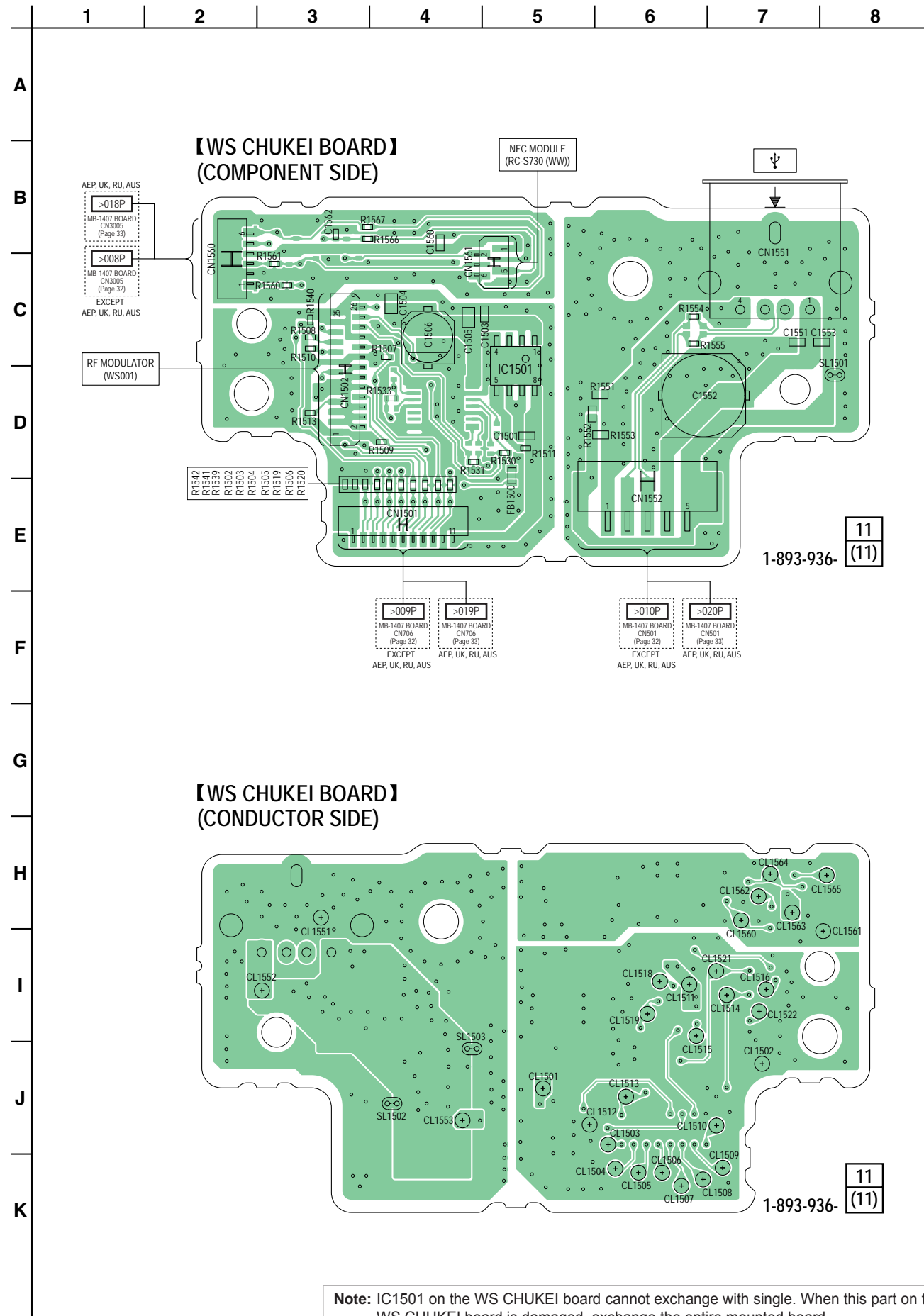


5-21. SCHEMATIC DIAGRAM - AUDIO IO Board -

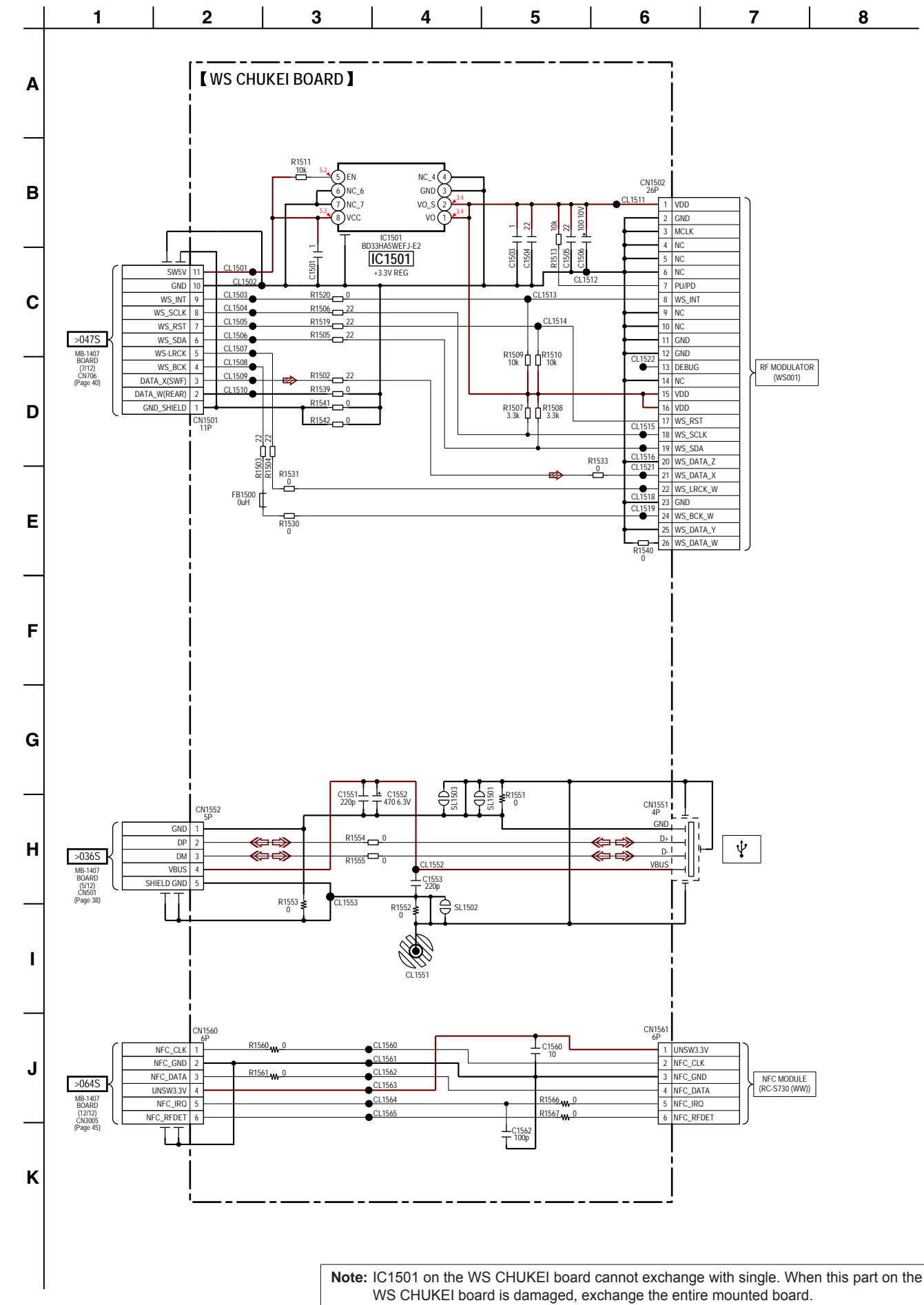


5-22. PRINTED WIRING BOARD - WS CHUKEI Board -

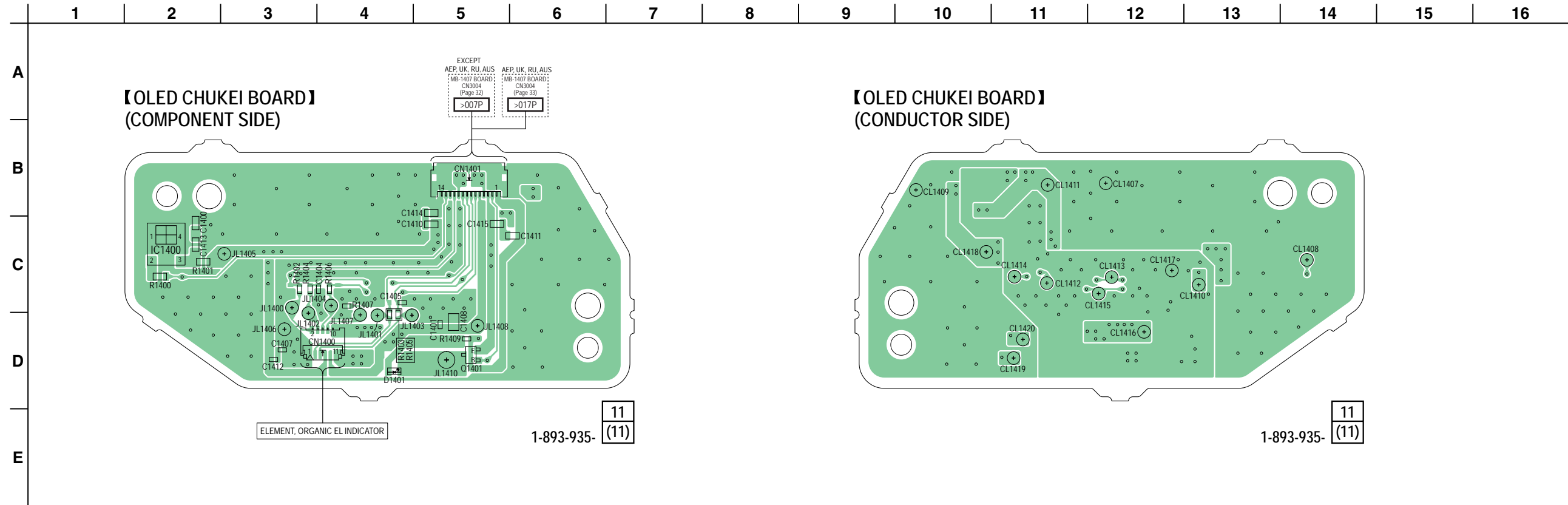
• See page 31 for Circuit Boards Location. •  : Uses unleaded solder.



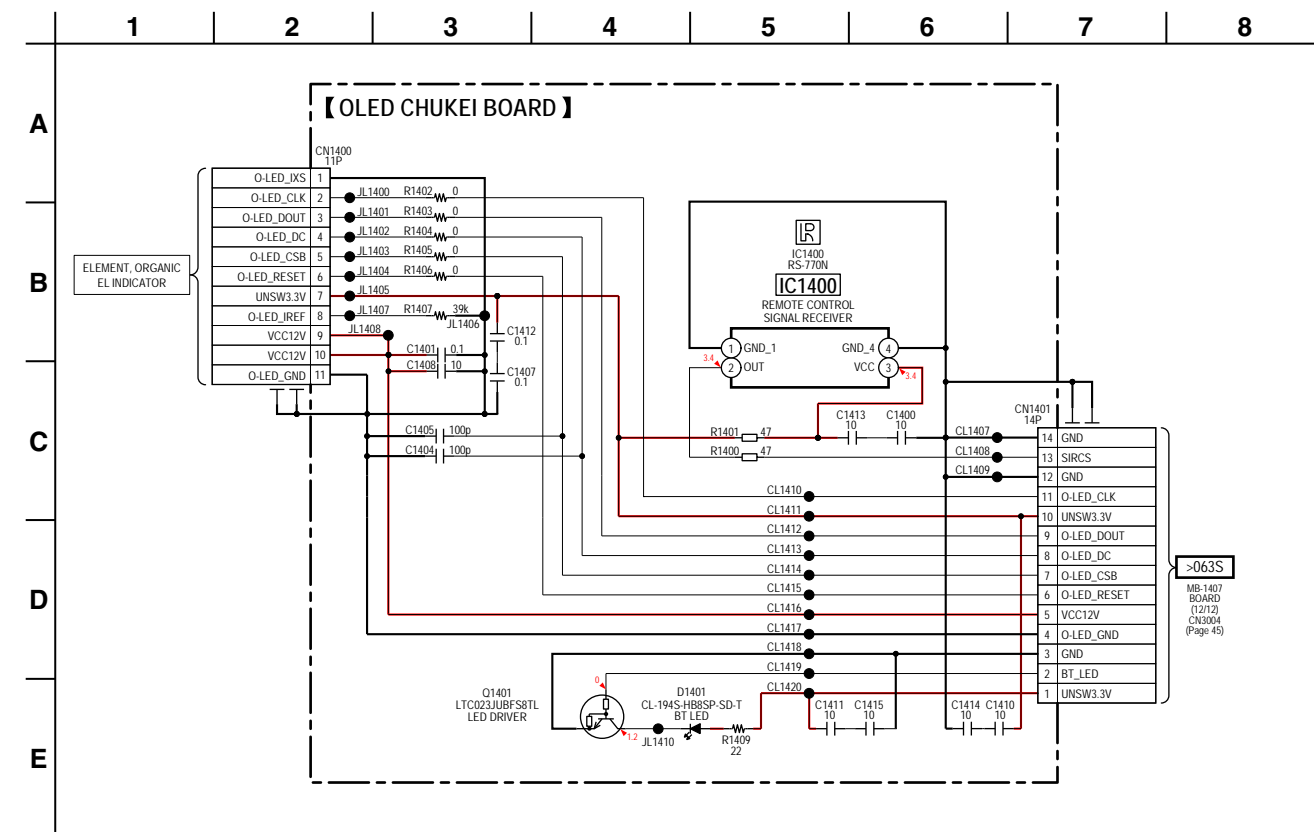
5-23. SCHEMATIC DIAGRAM - WS CHUKEI Board -



5-24. PRINTED WIRING BOARD - OLED CHUKEI Board - • See page 31 for Circuit Boards Location. •  : Uses unleaded solder.

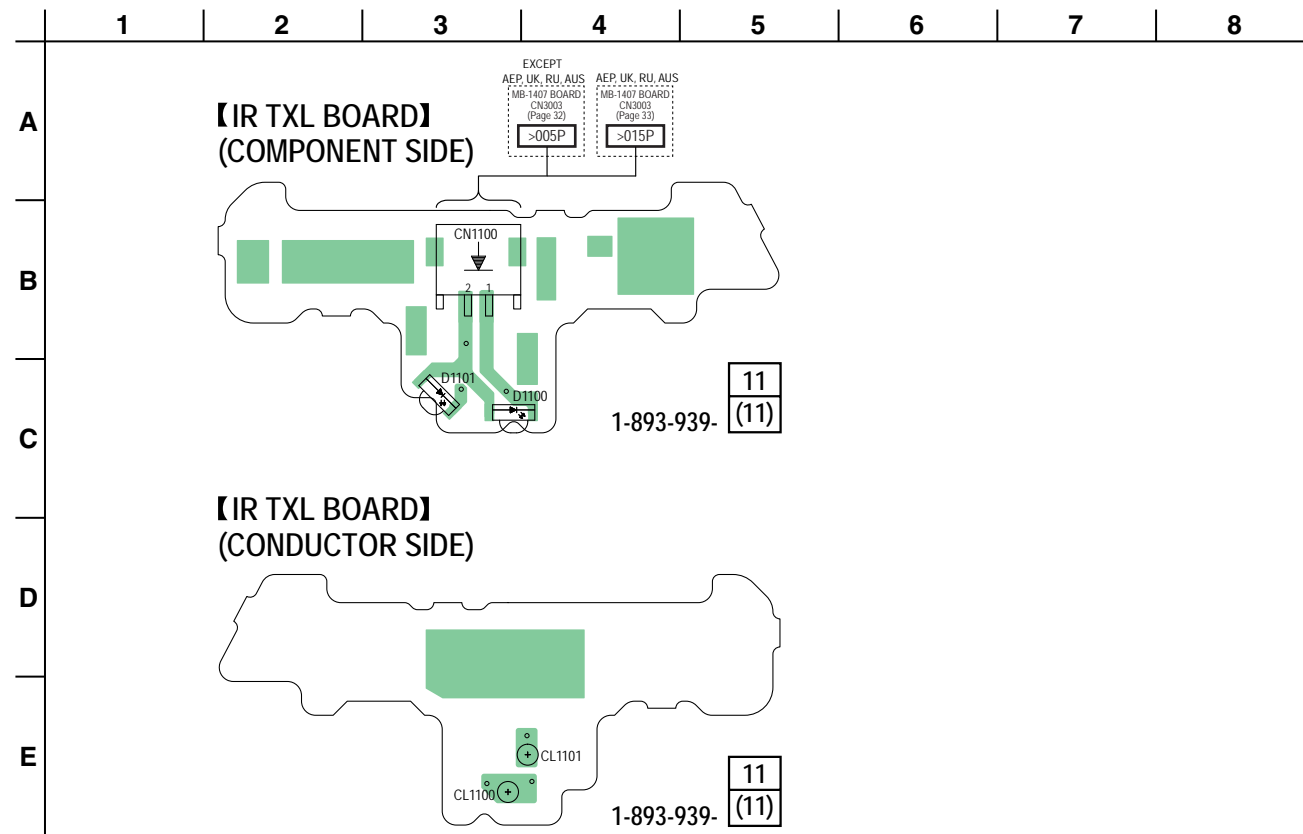


5-25. SCHEMATIC DIAGRAM - OLED CHUKEI Board - • See page 54 for IC Block Diagrams.



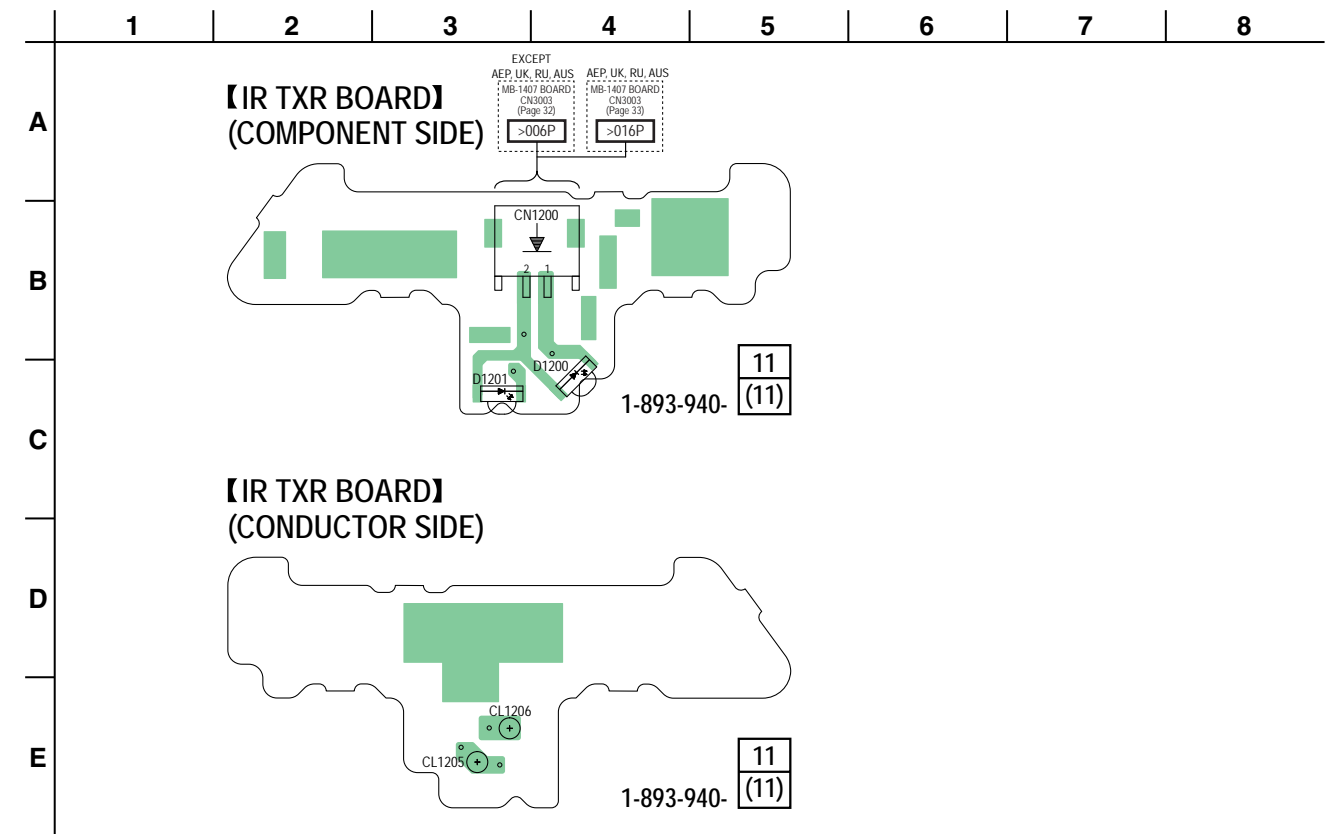
5-26. PRINTED WIRING BOARD - IR TXL Board -

• See page 31 for Circuit Boards Location. •  : Uses unleaded solder.

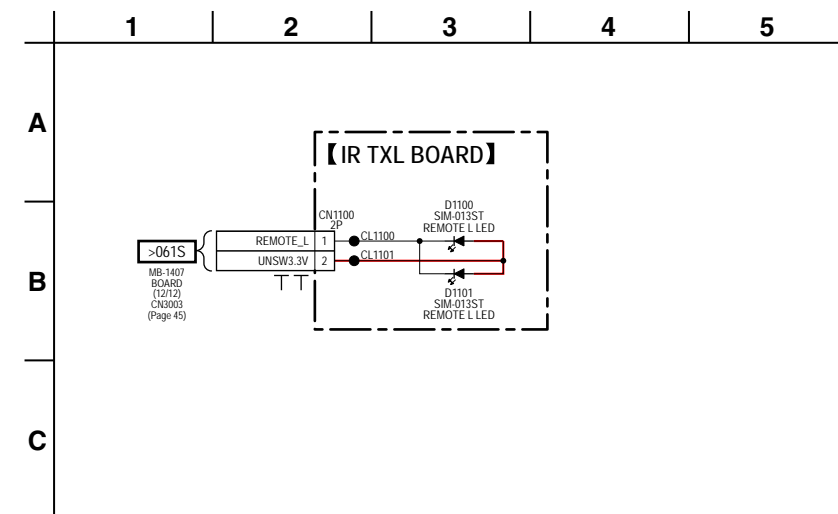


5-28. PRINTED WIRING BOARD - IR TXR Board -

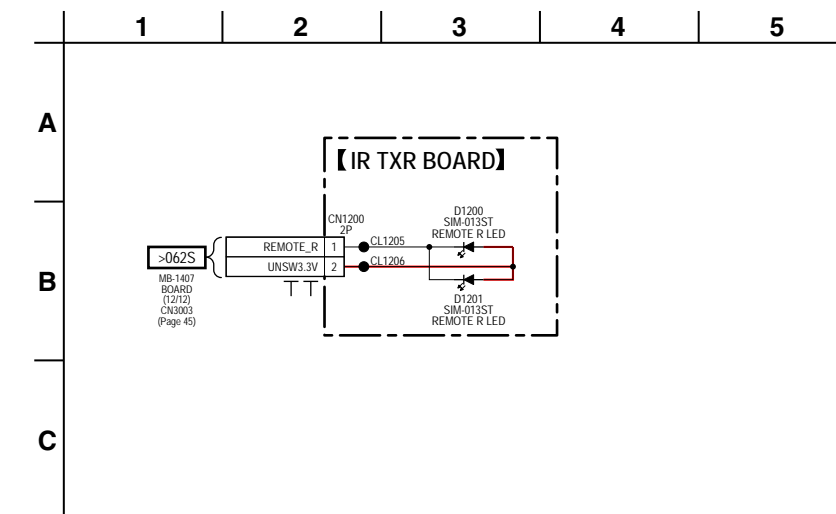
• See page 31 for Circuit Boards Location. •  : Uses unleaded solder.



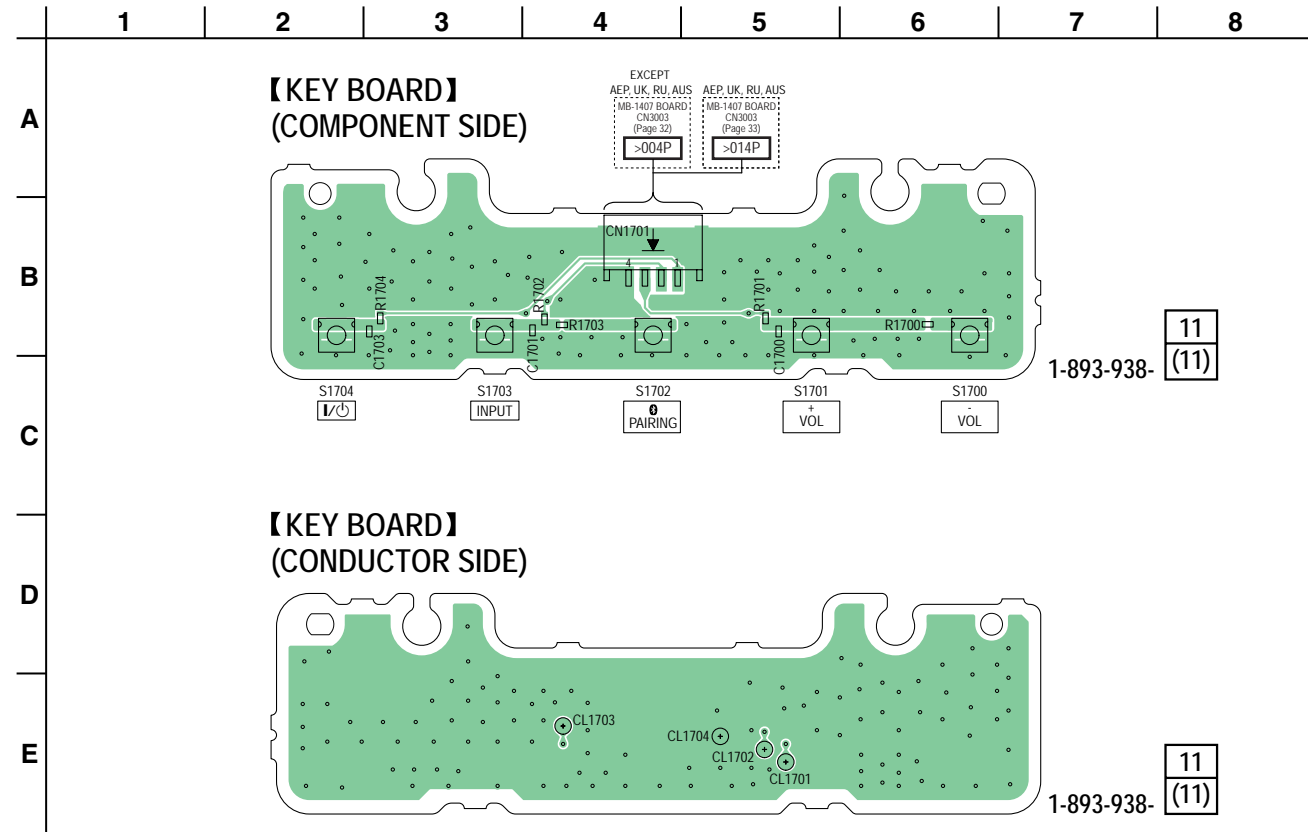
5-27. SCHEMATIC DIAGRAM - IR TXL Board -



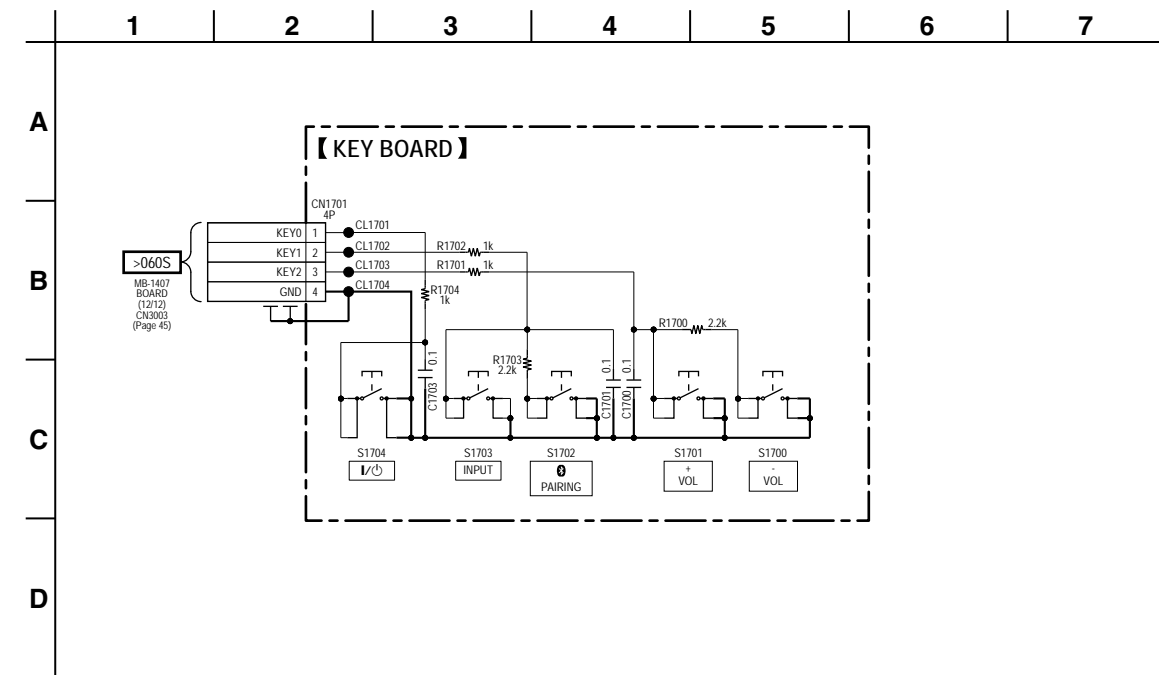
5-29. SCHEMATIC DIAGRAM - IR TXR Board -



5-30. PRINTED WIRING BOARD - KEY Board - • See page 31 for Circuit Boards Location. •  : Uses unleaded solder.

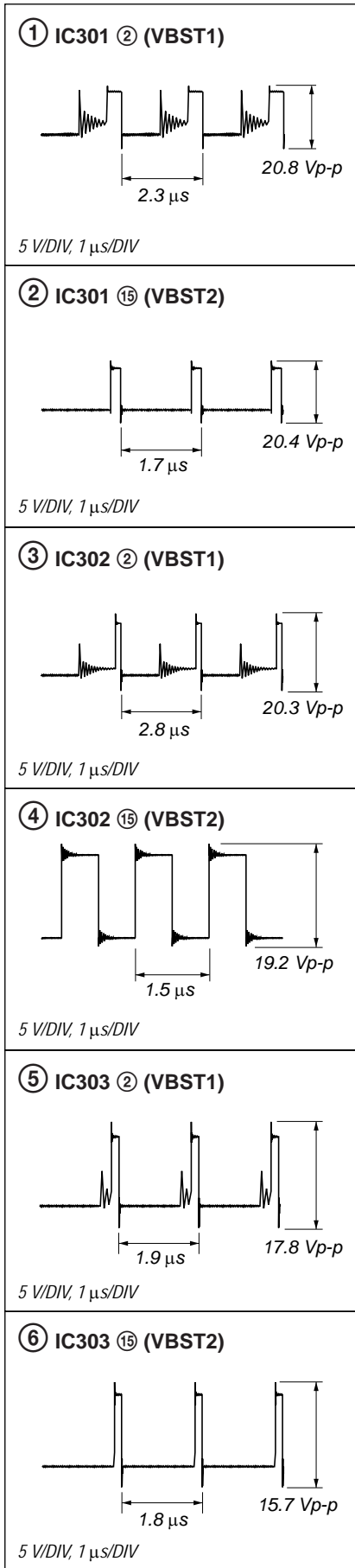


5-31. SCHEMATIC DIAGRAM - KEY Board -

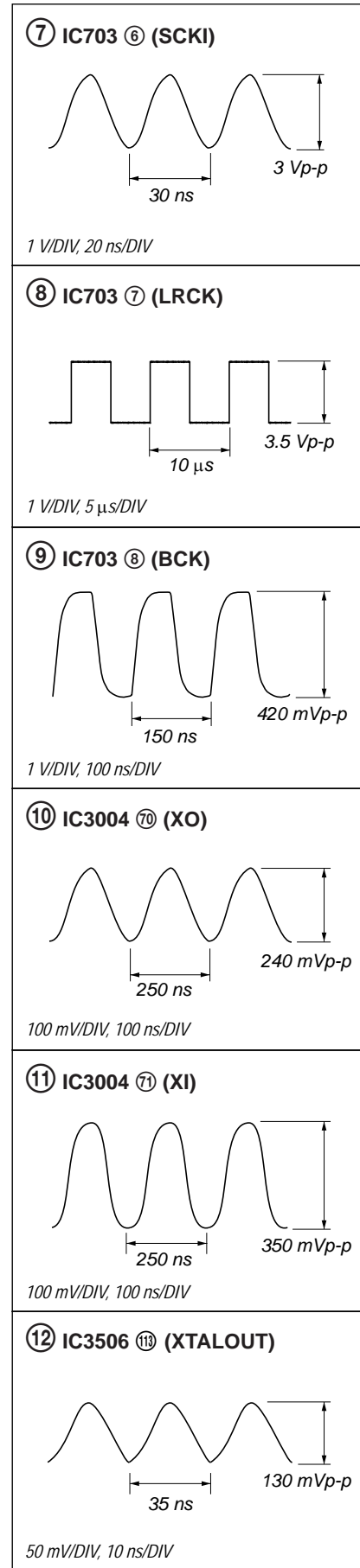


• Waveforms

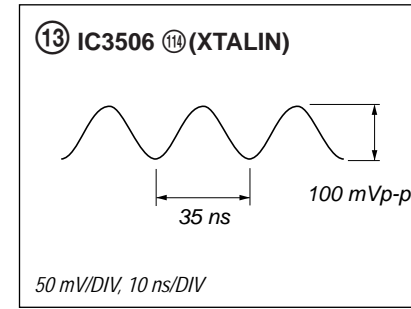
– MB-1407 Board –



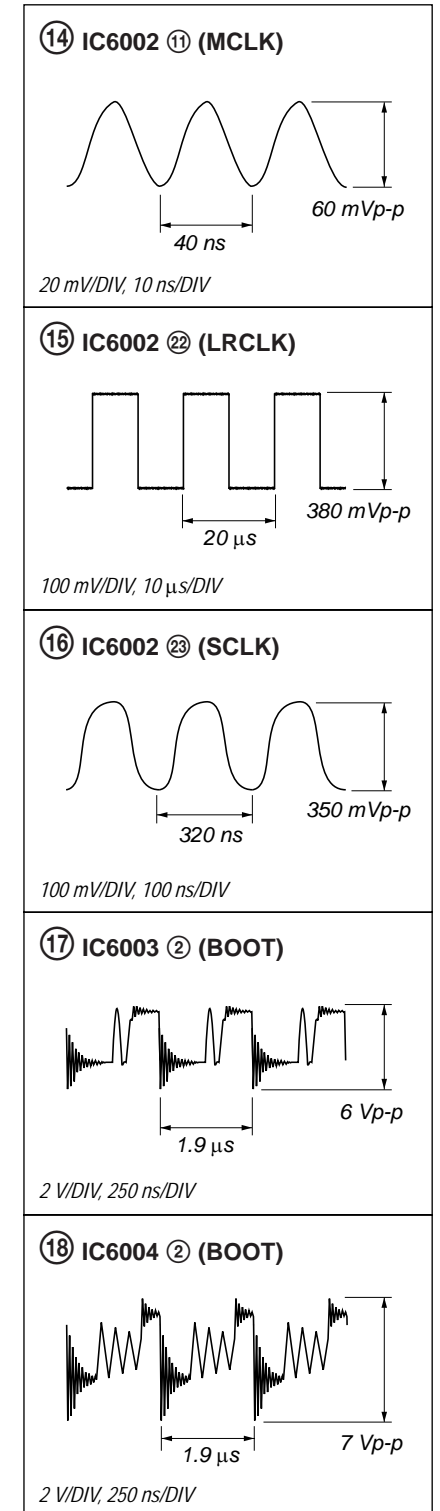
– MB-1407 Board –



– MB-1407 Board –

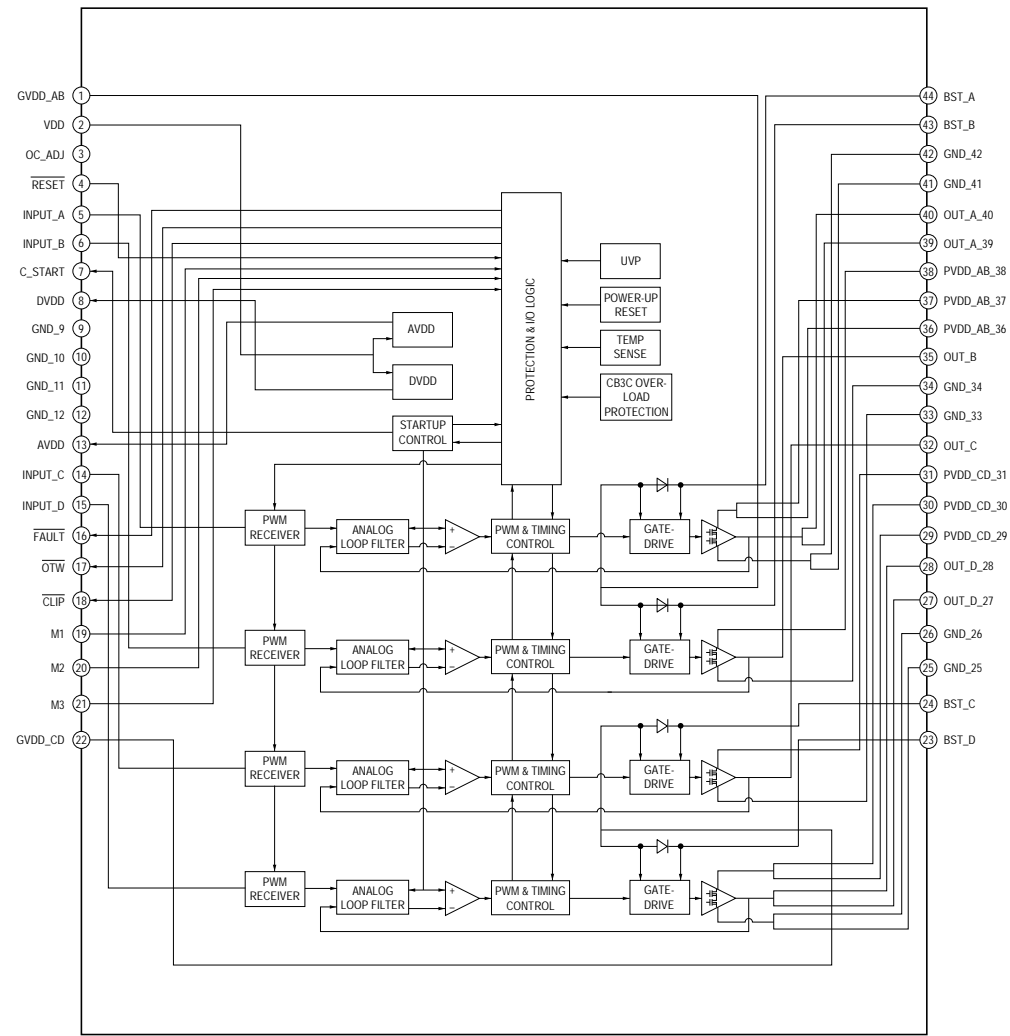


– AMP Board –

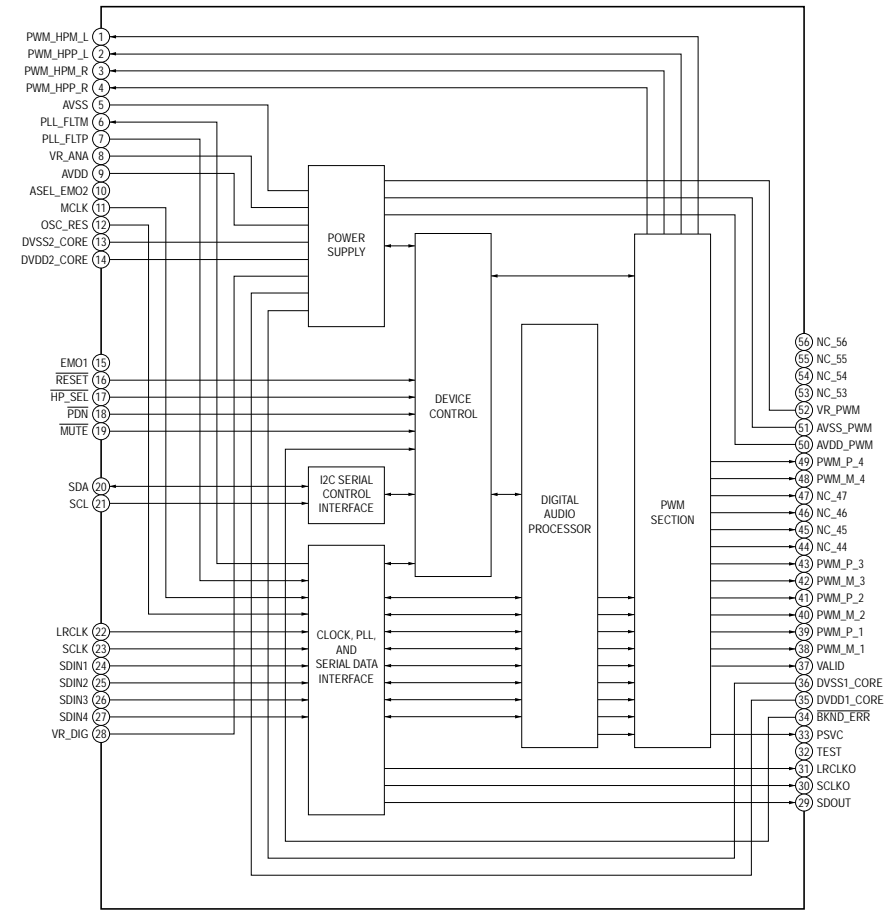


• IC Block Diagrams

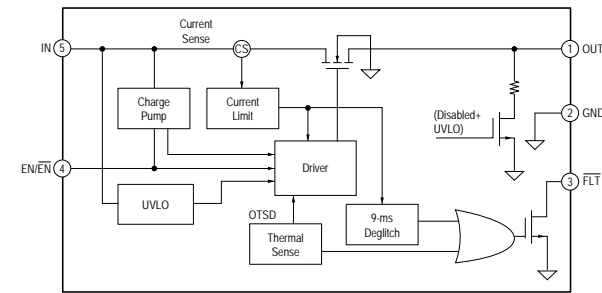
IC6001 TAS5614LA (AMP BOARD)



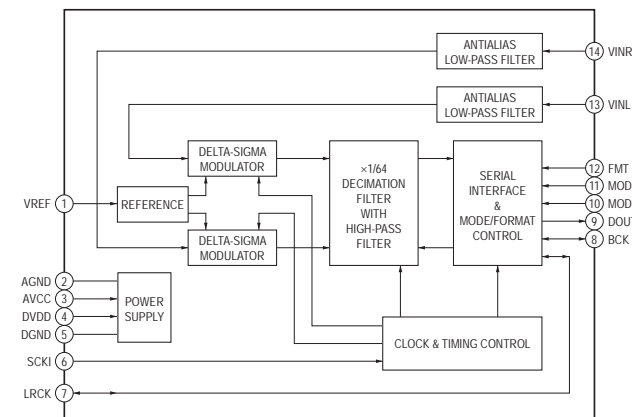
IC6002 TAS5534DGGR (AMP BOARD)



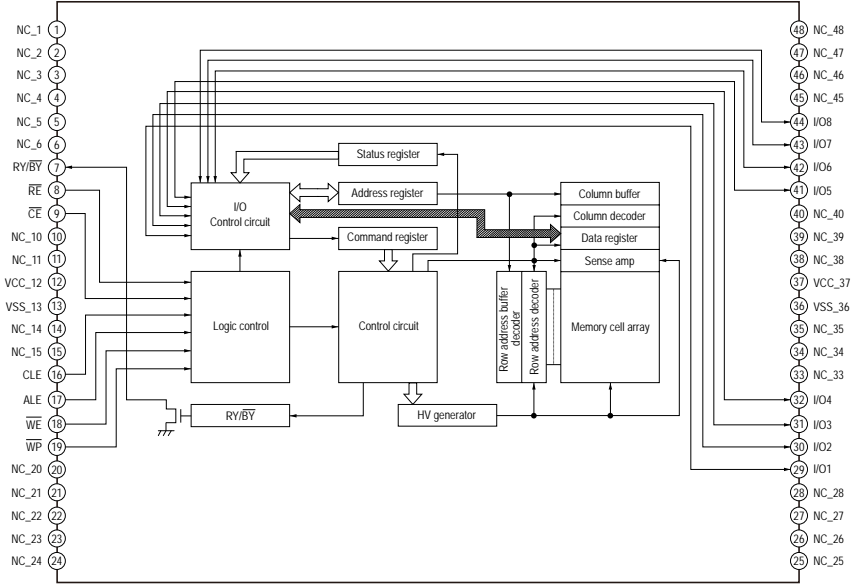
IC502, IC503 TPS2065CDBVR (MB-1407 BOARD (5/12))



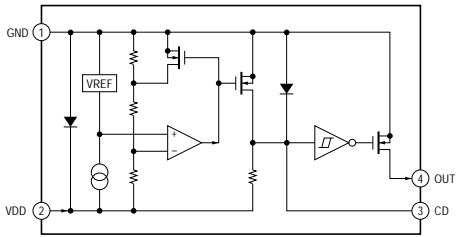
IC703 PCM1808PWR (MB-1407 BOARD (7/12))



IC2001 TC58NVG2S0HTA10 (MB-1407 BOARD (2/12))

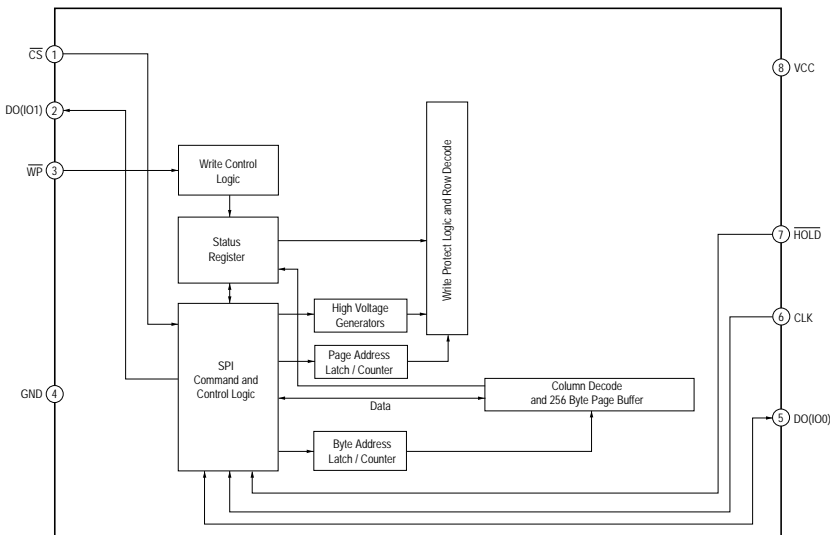


IC3005 PST8429UL (MB-1407 BOARD (12/12))

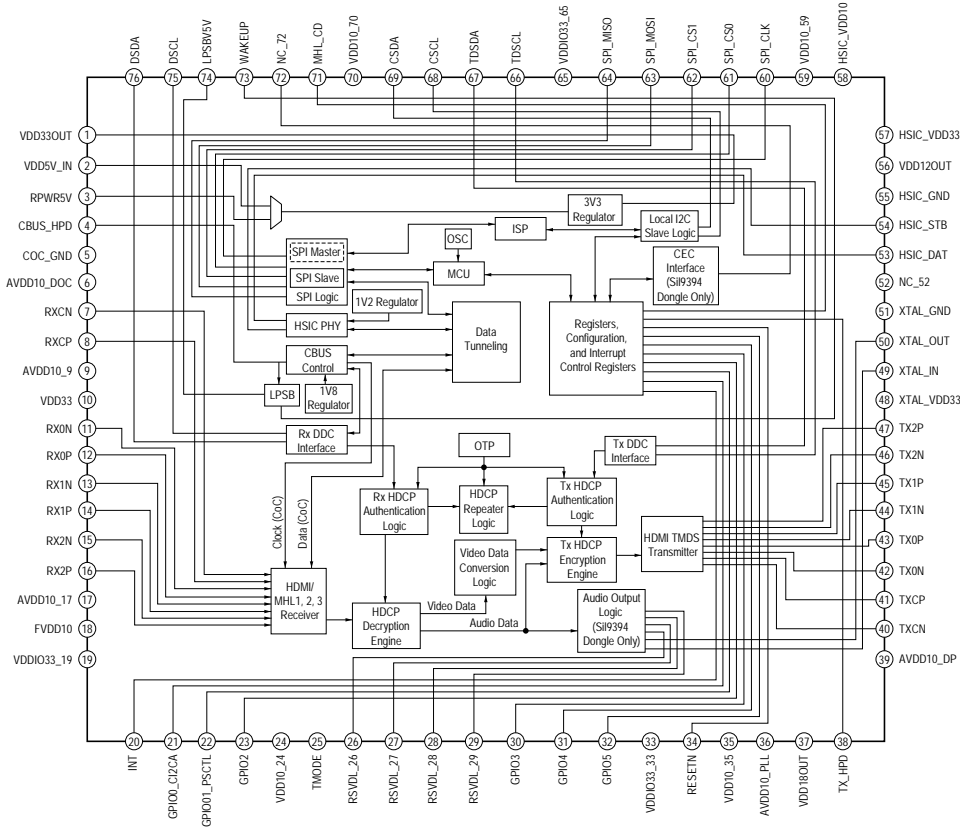


IC5000 W25X20CLSNIG (MB-1407 BOARD (10/12))

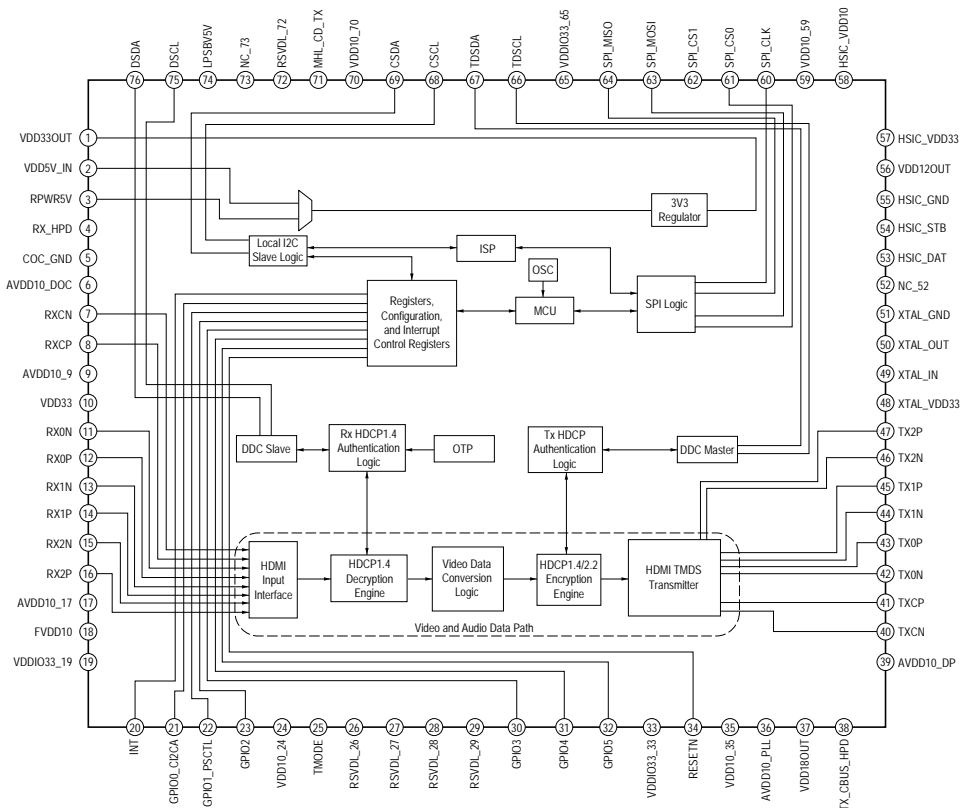
IC5009 W25X20CLSNIG (MB-1407 BOARD (11/12))



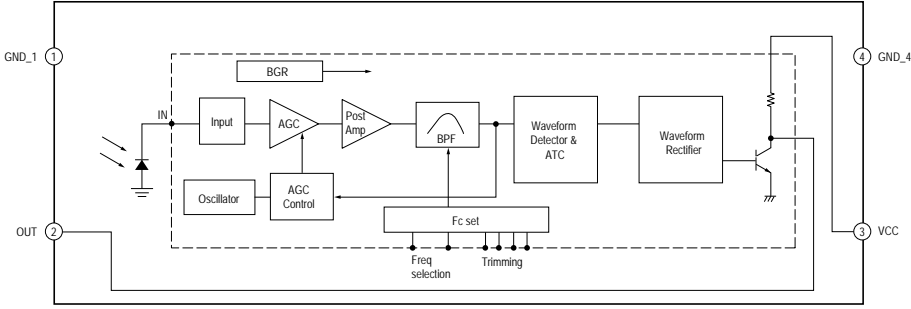
IC5001 SII9679CNUC (MB-1407 BOARD (10/12))



IC5010 SII9678CNUC (MB-1407 BOARD (11/12))



IC1400 RS-270 (OLED CHUKEI BOARD)



• IC Pin Function Descriptions

MB-1407 BOARD (1/12), (2/12), (4/12), (5/12), (7/12), (8/12) IC101 CXD90028GB-B (SoC)

Pin No.	Pin Name	I/O	Description
A1, A2	GPIO14, GPIO12	-	Not used
A3	SDA	I/O	Two-way I2C data bus terminal Not used
A4	USB_DP_P1	I/O	Two-way USB serial data (+) bus terminal
A5	USB_DP_P0	-	Not used
A6	USB_VRT_P0P1	-	External reference resistor connection terminal
A8	NC	-	Not used
A9	NC	-	Not used
A11	NC	-	Not used
A12	NC	-	Not used
A14	NC	-	Not used
A15	NC	-	Not used
A16	NC	-	Not used
A17	NC	-	Not used
A19	NC	-	Not used
A20	NC	-	Not used
A22	RSTI	-	Not used
A24	AOMCLK	O	Master clock signal output to the stream processor
A25	AOBCK	O	Bit clock signal output to the stream processor and RF modulator
A26	AOSDATA2	O	Digital audio signal output to the stream processor
A27	AOSDATA4	O	Digital audio signal output terminal
A28	AR0	-	Not used
B1, B2	GPIO25, GPIO24	-	Not used
B3	SCL	I/O	Two-way I2C clock bus terminal Not used
B4	USB_DM_P1	I/O	Two-way USB serial data (-) bus terminal
B5	USB_DM_P0	-	Not used
B8	NC	-	Not used
B9	NC	-	Not used
B11	NC	-	Not used
B12	NC	-	Not used
B14	NC	-	Not used
B15	NC	-	Not used
B16	NC	-	Not used
B17	NC	-	Not used
B19	NC	-	Not used
B20	NC	-	Not used
B22	NC	-	Not used
B23	OPTICAL	I	Digital audio signal input from the optical/coaxial receiver
B24	AOSDATA0	O	Digital audio signal output to the stream processor
B25	AOSDATA1	O	Digital audio signal output to the RF modulator
B26	AOSDATA3	O	Not used
B27	AOLRCK	O	L/R sampling clock signal output to the stream processor and RF modulator
B28	AL0	-	Not used
C1	GPIO15	O	Request signal output to the system controller
C2 to C5	GPIO26, GPIO13, GPIO10, GPIO11	-	Not used
C7	NC	-	Not used
C9	NC	-	Not used
C10	NC	-	Not used
C11	NC	-	Not used
C12	NC	-	Not used
C13	NC	-	Not used

Pin No.	Pin Name	I/O	Description
C14	NC	-	Not used
C15	AVDD12_2	-	Power supply terminal (+1.2V)
C16, C17	NC	-	Not used
C18	NC	-	Not used
C19	NC	-	Not used
C20, C21	NC	-	Not used
C22	NC	-	Not used
C24	ARC	I	Digital audio signal input from the HDMI ARC OUT connector
C25	COAXIAL	-	Not used
C26	SPDIF	-	Not used
C27	NS_XTALI	I	System clock signal input terminal (27 MHz)
C28	NS_XTALO	O	System clock signal output terminal (27 MHz)
D1	GPIO1	I	Ready signal input from the system controller "H": ready
D2	GPIO16	I	Over current detection signal input from the USB VBUS switch
D3	GPIO17	I	Chip select signal input from the system controller
D4	GPIO18	-	Not used
D6	NC	-	Not used
D7	NC	-	Not used
D8	NC	-	Not used
D9	NC	-	Not used
D10	NC	-	Not used
D13	NC	-	Not used
D14	NC	-	Not used
D15	NC	-	Not used
D16	NC	-	Not used
D17	NC	-	Not used
D18	NC	-	Not used
D19	NC	-	Not used
D20	NC	-	Not used
D21	NC	-	Not used
D22	NC	-	Not used
D24	MCIN	I	Digital audio signal input from the A/D converter
D26	AVDD33_DAC	-	Power supply terminal (+3.3V)
D27	CH2_P	O	TMDS data (positive) output to the HDMI ARC OUT connector
D28	CH2_M	O	TMDS data (negative) output to the HDMI ARC OUT connector
E1, E2	GPIO3, GPIO2	-	Not used
E3	GPIO6	O	UPG status signal output to the system controller
E4	GPIO0	-	Not used
E6	AVDD33_USB_P0P1	-	Power supply terminal (+3.3V)
E8	NC	-	Not used
E10	NC	-	Not used
E12	AVSS12_SATA	-	Ground terminal
E13	NC	-	Not used
E14	NC	-	Not used
E17	NC	-	Not used
E18	AVDD33_3	-	Power supply terminal (+3.3V)
E19	NC	-	Not used
E21	NC	-	Not used
E22	NC	-	Not used
E23	AVDD12_1	-	Power supply terminal (+1.2V)
E24	SPDATA	I/O	Not used
E26	AVDD33_HDMI	-	Power supply terminal (+3.3V)
E27	CH1_P	O	TMDS data (positive) output to the HDMI ARC OUT connector

Pin No.	Pin Name	I/O	Description
E28	CH1_M	O	TMDS data (negative) output to the HDMI ARC OUT connector
F3	GPIO7	O	USB VBUS on/off control signal output terminal "H": VBUS on
F4, F5	GPIO21, GPIO19	-	Not used
F7	NC	-	Not used
F9, F10	DGND12_K	-	Ground terminal
F12	AVSS33_USB_POP1	-	Ground terminal
F13	NC	-	Not used
F14	NC	-	Not used
F15, F16	DGND12_K	-	Ground terminal
F17	AGND33_3	-	Ground terminal
F18	AVDD33_1	-	Power supply terminal (+3.3V)
F19	AGND12_2	-	Ground terminal
F20	AGND33_1	-	Ground terminal
F23	DVCC33_IO_5	-	Power supply terminal (+3.3V)
F26	AVDD33_PLLGP	-	Power supply terminal (+3.3V)
F27	CH0_P	O	TMDS data (positive) output to the HDMI ARC OUT connector
F28	CH0_M	O	TMDS data (negative) output to the HDMI ARC OUT connector
G1 to G3	GPIO4, GPIO23, GPIO22	-	Not used
G4	AMUTE	-	Not used
G5	GPIO20	-	Not used
G8	DVCC33_IO_2	-	Power supply terminal (+3.3V)
G11	AVDD12_S	-	Power supply terminal (+1.2V)
G12	AVDD33_S	-	Power supply terminal (+3.3V)
G14	DVCC33_IO_1	-	Power supply terminal (+3.3V)
G18	AGND33_2	-	Ground terminal
G21	AGND12_1	-	Ground terminal
G22	DVCC33_IO_5	-	Power supply terminal (+3.3V)
G26	AVDD12_HDMI_D	-	Power supply terminal (+1.2V)
G27	CLK_P	O	TMDS clock (positive) signal output to the HDMI ARC OUT connector
G28	CLK_M	O	TMDS clock (negative) signal output to the HDMI ARC OUT connector
H1	EFPWRQ	-	Not used
H2	GPIO5	O	Jig mode selection signal output to the system controller
H3	GPIO9	-	Not used
H4	DGND12_K	-	Ground terminal
H5, H6	DDRVCCIO1	-	Power supply terminal (+1.5V)
H7	DGND12_K	-	Ground terminal
H8, H14	DVCC33_IO_2, DVCC33_IO_1	-	Power supply terminal (+3.3V)
H25	AVDD12_HDMI_C	-	Power supply terminal (+1.2V)
H26	AVDD12_HDMI_ D_SUB	-	Power supply terminal (+1.2V)
H27	CH2_P_SUB	I	TMDS data (positive) input from the HDMI IN 2 connector
H28	CH2_M_SUB	I	TMDS data (negative) input from the HDMI IN 2 connector
J1 to J6	NC	-	Not used
J11, J12	DVCC12_K	-	Power supply terminal (+1.2V)
J13	DGND12_K	-	Ground terminal
J14, J15	DVCC12_K	-	Power supply terminal (+1.2V)
J16	DGND12_K	-	Ground terminal
J17 to J19	DVCC12_K	-	Power supply terminal (+1.2V)
J25	AVDD12_HDMI_ C_SUB	-	Power supply terminal (+1.2V)
J27	CH1_P_SUB	I	TMDS data (positive) input from the HDMI IN 2 connector
J28	CH1_M_SUB	I	TMDS data (negative) input from the HDMI IN 2 connector

Pin No.	Pin Name	I/O	Description
K1, K2	NC	-	Not used
K3, K4	NC	-	Not used
K5	DDRVCIO1	-	Power supply terminal (+1.5V)
K6, K7, K9	DGND12_K	-	Ground terminal
K11, K12	DVCC12_K	-	Power supply terminal (+1.2V)
K13	DGND12_K	-	Ground terminal
K14, K15	DVCC12_K	-	Power supply terminal (+1.2V)
K16	DGND12_K	-	Ground terminal
K17 to K19	DVCC12_K	-	Power supply terminal (+1.2V)
K23	AVSS33_DAC	-	Ground terminal
K27	CH0_P_SUB	I	TMDS data (positive) input from the HDMI IN 2 connector
K28	CH0_M_SUB	I	TMDS data (negative) input from the HDMI IN 2 connector
L1	NC	-	Not used
L2	NC	-	Not used
L3, L4	NC	-	Not used
L5	DDRVCIO1	-	Power supply terminal (+1.5V)
L10	DVCC12_K	-	Power supply terminal (+1.2V)
L11 to L18	DGND12_K	-	Ground terminal
L19	DVCC12_K	-	Power supply terminal (+1.2V)
L22	AVSS33_PLLGP	-	Ground terminal
L24	VOUTHSYNC	-	Not used
L25	VOUTVSYNC	-	Not used
L27	CLK_P_SUB	I	TMDS clock (positive) signal input from the HDMI IN 2 connector
L28	CLK_M_SUB	I	TMDS clock (negative) signal input from the HDMI IN 2 connector
M1	NC	-	Not used
M2	NC	-	Not used
M3	DDRVCIO1	-	Power supply terminal (+1.5V)
M4	DGND12_K	-	Ground terminal
M5, M6	NC	-	Not used
M8	DDRVCIO1	-	Power supply terminal (+1.5V)
M10	DVCC12_K	-	Power supply terminal (+1.2V)
M11 to M18	DGND12_K	-	Ground terminal
M19	DVCC12_K	-	Power supply terminal (+1.2V)
M22	AVSS33_HDMI	-	Ground terminal
M27	HDMI_RX_2	I	TMDS data (positive) input from the HDMI IN 1 connector
M28	HDMI_RX_2B	I	TMDS data (negative) input from the HDMI IN 1 connector
N1	NC	-	Not used
N2	NC	-	Not used
N3	NC	-	Not used
N4	NC	-	Not used
N5	NC	-	Not used
N6	NC	-	Not used
N7	DDRVCIO1	-	Power supply terminal (+1.5V)
N8	DDRVREF_A	I	Reference voltage (+0.75V) input terminal for SD-RAM
N10	DVCC12_K	-	Power supply terminal (+1.2V)
N11 to N18	DGND12_K	-	Ground terminal
N19	DVCC12_K	-	Power supply terminal (+1.2V)
N20	AVSS33_HDMI_SUB	-	Ground terminal
N23	AVDD12_HDMI_RX	-	Power supply terminal (+1.2V)
N27	HDMI_RX_1	I	TMDS data (positive) input from the HDMI IN 1 connector
N28	HDMI_RX_1B	I	TMDS data (negative) input from the HDMI IN 1 connector
P3, P4	NC	-	Not used
P5	NC	-	Not used

Pin No.	Pin Name	I/O	Description
P6	NC	-	Not used
P8	DDRVCCIO1	-	Power supply terminal (+1.5V)
P10	DVCC12_K	-	Power supply terminal (+1.2V)
P11 to P18	DGND12_K	-	Ground terminal
P19, P20	DVCC12_K	-	Power supply terminal (+1.2V)
P22	VOUTCLOCK	-	Not used
P23 to P26	VOUTD14, VOUTD12, VOUTD13, VOUTD15	-	Not used
P27	HDMI_RX_0	I	TMDS data (positive) input from the HDMI IN 1 connector
P28	HDMI_RX_0B	I	TMDS data (negative) input from the HDMI IN 1 connector
R1	NC	-	Not used
R2	NC	-	Not used
R3, R4	NC	-	Not used
R5	NC	-	Not used
R7	DDRVCCIO1	-	Power supply terminal (+1.5V)
R8	DGND12_K	-	Ground terminal
R10	DVCC12_K	-	Power supply terminal (+1.2V)
R11 to R19	DGND12_K	-	Ground terminal
R20	DVCC12_K	-	Power supply terminal (+1.2V)
R22	AVSS33_HDMI_RX	-	Ground terminal
R23, R24	VOUTD8, VOUTD3	-	Not used
R25	AVDD33_HDMI_SUB	-	Power supply terminal (+3.3V)
R26	AVDD33_HDMI_RX	-	Power supply terminal (+3.3V)
R27	HDMI_RX_C	I	TMDS clock (positive) signal input from the HDMI IN 1 connector
R28	HDMI_RX_CB	I	TMDS clock (negative) signal input from the HDMI IN 1 connector
T1 to T3	NC	-	Not used
T4	NC	-	Not used
T5, T6	NC	-	Not used
T7	DGND12_K	-	Ground terminal
T8	DDRVCCIO1	-	Power supply terminal (+1.5V)
T10	DVCC12_K	-	Power supply terminal (+1.2V)
T11 to T18	DGND12_K	-	Ground terminal
T19, T20	DVCC12_K	-	Power supply terminal (+1.2V)
T22	AVSS33_BG	-	Ground terminal
T26	VOUTD10	-	Not used
T27	AVDD33_BG	-	Power supply terminal (+3.3V)
U3 to U5	NC	-	Not used
U6	NC	-	Not used
U7	DDRVCCIO1	-	Power supply terminal (+1.5V)
U8	DGND12_K	-	Ground terminal
U10	DVCC12_K	-	Power supply terminal (+1.2V)
U12 to U19	DGND12_K	-	Ground terminal
U20	DVCC12_K	-	Power supply terminal (+1.2V)
U21	DVCC33_IO_4	-	Power supply terminal (+3.3V)
U22	AVSS33_X	-	Ground terminal
U23 to U26	VOUTD9, VOUTD7, VOUTD6, VOUTD11	-	Not used
U27	NC	-	Not used
U28	NC	-	Not used
V1	NC	-	Not used
V2	NC	-	Not used
V3	NC	-	Not used
V4	NC	-	Not used
V5, V6	NC	-	Not used

Pin No.	Pin Name	I/O	Description
V7	DGND12_K	-	Ground terminal
V8	DDRVREF_B	I	Reference voltage (+0.75V) input terminal for SD-RAM
V10	DGND12_K	-	Ground terminal
V11	DVCC12_K	-	Power supply terminal (+1.2V)
V12 to V17	DGND12_K	-	Ground terminal
V18	DVCC12_K	-	Power supply terminal (+1.2V)
V19	DGND12_K	-	Ground terminal
V20	DVCC12_K	-	Power supply terminal (+1.2V)
V21	DVCC33_IO_4	-	Power supply terminal (+3.3V)
V22	AVDD33_X	-	Power supply terminal (+3.3V)
V23 to V25	VOUTD2, VOUTD4, VOUTD5	-	Not used
V28	NC	-	Not used
W1, W2	NC	-	Not used
W3	DDRVCIO1	-	Power supply terminal (+1.5V)
W4, W5	NC	-	Not used
W6	NC	-	Not used
W8	DDRVCIO1	-	Power supply terminal (+1.5V)
W10	DVCC12_K	-	Power supply terminal (+1.2V)
W11, W12	DVCC12_K	-	Power supply terminal (+1.2V)
W13, W14	DVCC12_K	-	Power supply terminal (+1.2V)
W15, W16, W18, W19	DVCC12_K	-	Power supply terminal (+1.2V)
W20	DGND12_K	-	Ground terminal
W25, W26	VOUTD1, VOUTD0	-	Not used
W27	NC	-	Not used
W28	USB_VRT_P2	-	External reference resistor connection terminal
Y3, Y4	NC	-	Not used
Y7	DDRVCIO1	-	Power supply terminal (+1.5V)
Y18	DGND12_K	-	Ground terminal
Y20	AVSS33_COM	-	Ground terminal
Y22	AVSS33_USB_P2	-	Ground terminal
Y23	DGND12_K	-	Ground terminal
Y26	AVDD33_USB_P2	-	Power supply terminal (+3.3V)
AA1	NC	-	Not used
AA2	NC	-	Not used
AA3, AA4	NC	-	Not used
AA5	NC	-	Not used
AA6	NC	-	Not used
AA7	DGND12_K	-	Ground terminal
AA15	DDRVREF_D	I	Reference voltage (+0.75V) input terminal for SD-RAM
AA17	DDRVCIO1	-	Power supply terminal (+1.5V)
AA18	DGND12_K	-	Ground terminal
AA22	AVSS33_LD	-	Ground terminal
AA24	AVDD33_LD	-	Power supply terminal (+3.3V)
AA25	AVDD33_COM	-	Power supply terminal (+3.3V)
AA27	USB_DP_P2	I/O	Two-way USB serial data (+) with the WLAN/BT COMBO card
AA28	USB_DM_P2	I/O	Two-way USB serial data (-) with the WLAN/BT COMBO card
AB1	NC	-	Not used
AB2	NC	-	Not used
AB3	DDRVCIO1	-	Power supply terminal (+1.5V)
AB4 to AB6	NC	-	Not used
AB8, AB9	DGND12_K	-	Ground terminal
AB11	DDRVCIO1	-	Power supply terminal (+1.5V)

Pin No.	Pin Name	I/O	Description
AB12	DGND12_K	-	Ground terminal
AB13	DDRVCCIO1	-	Power supply terminal (+1.5V)
AB14, AB15	DGND12_K	-	Ground terminal
AB17	DDRVCCIO1	-	Power supply terminal (+1.5V)
AB18, AB19	DGND12_K	-	Ground terminal
AB20	AVSS33_LDO	-	Ground terminal
AB21	AVDD12_LDO	-	Not used
AB23	MDIO	-	Not used
AB24	CEC	-	Not used
AB25	HDMISCK	I/O	Two-way I2C clock bus with the HDMI ARC OUT connector
AB26	HDMISD	I/O	Two-way I2C data bus with the HDMI ARC OUT connector
AB27	TXVN_0	-	Not used
AB28	TXVP_0	-	Not used
AC1	NC	-	Not used
AC2	NC	-	Not used
AC3	DDRVCCIO1	-	Power supply terminal (+1.5V)
AC4	DGND12_K	-	Ground terminal
AC5	AVDD33_MEMPLL	-	Power supply terminal (+3.3V)
AC7	DDRVREF_C	I	Reference voltage (+0.75V) input terminal for SD-RAM
AC8	RDQM2	O	Data mask signal output to the SD-RAM
AC9	DGND12_K	-	Ground terminal
AC10	RBA0	O	Bank address signal output to the SD-RAM
AC11	DDRVCCIO1	-	Power supply terminal (+1.5V)
AC12	RA6	O	Address signal output to the SD-RAM
AC14	DDRVCCIO1	-	Power supply terminal (+1.5V)
AC15	RBA1	O	Bank address signal output to the SD-RAM
AC17, AC18	RDQ10, RDQ15	I/O	Two-way data bus with the SD-RAM
AC19	DDRVCCIO1	-	Power supply terminal (+1.5V)
AC21	NFRBN2	-	Not used
AC24	GPIO27	O	WOL (wake-on-LAN) wake-up signal output to the system controller "H": wake-up
AC25	DDC_SCL_RX2	O	I2C clock signal output to the HDMI IN 2 connector
AC26	CEC2	-	Not used
AC27	TXVN_1	-	Not used
AC28	TXVP_1	-	Not used
AD1	NC	-	Not used
AD2, AD3	NC	-	Not used
AD4	AVSS33_MEMPLL	-	Ground terminal
AD8	RA13	O	Address signal output to the SD-RAM
AD9	RRESET	O	Reset signal output to the SD-RAM "L": reset
AD10	RCAS_	O	Column address signal output to the SD-RAM
AD11 to AD15	RA14, RA8, RA1, RA10, RA12	O	Address signal output to the SD-RAM
AD16 to AD18	RDQ8, RDQ12, RDQ14	I/O	Two-way data bus with the SD-RAM
AD19	DDRVCCIO1	-	Power supply terminal (+1.5V)
AD20	AVDD33_LDO	-	Power supply terminal (+3.3V)
AD21	NFRBN	O	Ready/busy selection signal output to the NAND flash "L": busy, "H": ready
AD22	NFCLE	O	Command latch enable signal output to the NAND flash
AD23	MDC	-	Not used
AD24	DDC_SDA_RX2	I/O	Two-way I2C data bus with the HDMI IN 2 connector
AD25	PWR5V_RX	I	Power supply voltage (+5V) input from the HDMI IN 1 connector
AD26	HTPLG_RX_2	O	Hot plug detection signal output to the HDMI IN 2 connector

Pin No.	Pin Name	I/O	Description
AD27	REXT	-	External reference resistor connection terminal
AD28	HTPLG	I	Hot plug detection signal input from the HDMI ARC OUT connector
AE3	NC	-	Not used
AE5	DDRVCIO1	-	Power supply terminal (+1.5V)
AE6 to AE8	RDQ29, RDQ31, RDQ30	I/O	Two-way data bus with the SD-RAM
AE9	RWE_	O	Write enable signal output to the SD-RAM
AE10	RODT	O	On die termination enable signal output to the SD-RAM
AE11	RRAS_	O	Row address signal output to the SD-RAM
AE12	RA3	O	Address signal output to the SD-RAM
AE13	RCSX_	-	Not used
AE14	RA4	O	Address signal output to the SD-RAM
AE16	RDQ11	I/O	Two-way data bus with the SD-RAM
AE17	RDQM1	O	Data mask signal output to the SD-RAM
AE18	RDQ13	I/O	Two-way data bus with the SD-RAM
AE19, AE20	DVCC33_IO_STB	-	Power supply terminal (+3.3V)
AE21	NFREN	O	Read enable signal output to the NAND flash
AE22	NFCEN2	-	Not used
AE23	NFD0	I/O	Two-way data bus with the NAND flash
AE24	NFWEN	O	Write enable signal output to the NAND flash
AE25	HTPLG_RX	O	Hot plug detection signal output to the HDMI IN 1 connector
AE26	PWR5V_RX2	I	Power supply voltage (+5V) input from the HDMI IN 2 connector
AF1, AF2	TP_MEMPLL, TN_MEMPLL	-	Not used
AF3	NC	-	Not used
AF4	RDQ25	I/O	Two-way data bus with the SD-RAM
AF5	DGND12_K	-	Ground terminal
AF6	RDQ28	I/O	Two-way data bus with the SD-RAM
AF7	DDRVCIO1	-	Power supply terminal (+1.5V)
AF8, AF9	RDQ20, RDQ22	I/O	Two-way data bus with the SD-RAM
AF10	DDRVCIO1	-	Power supply terminal (+1.5V)
AF11, AF12	RA9, RA5	O	Address signal output to the SD-RAM
AF13	RCS_	O	Chip select signal output to the SD-RAM
AF14 to AF16	RDQ3, RDQ1, RDQ9	I/O	Two-way data bus with the SD-RAM
AF17, AF18	DDRVCIO1	-	Power supply terminal (+1.5V)
AF20	RDQ5	I/O	Two-way data bus with the SD-RAM
AF21	NFD6	I/O	Two-way data bus with the NAND flash
AF22	NFCEN	O	Chip enable signal output to the NAND flash
AF23	NFD1	I/O	Two-way data bus with the NAND flash
AF24	NFALE	O	Address latch enable signal output to the NAND flash
AF25	UARXD	-	Not used
AF26	RESET_	I	Reset signal input from the system controller "L": reset
AF27	DDC_SDA_RX	I/O	Two-way I2C data bus with the HDMI IN 1 connector
AF28	DDC_SCL_RX	O	I2C clock signal output to the HDMI IN 1 connector
AG1 to AG4	RDQ17, RDQ16, RDQ26, RDQ27	I/O	Two-way data bus with the SD-RAM
AG5	RDQS2	O	Data strobe signal (positive) output to the SD-RAM
AG6	RCLK1	O	Clock signal (positive) output to the SD-RAM
AG7	RDQS3_	O	Data strobe signal (negative) output to the SD-RAM
AG8	RDQ21	I/O	Two-way data bus with the SD-RAM
AG10	RBA2	O	Bank address signal output to the SD-RAM
AG11, AG13	RA2, RA11	O	Address signal output to the SD-RAM

Pin No.	Pin Name	I/O	Description
AG14	RDQ0	I/O	Two-way data bus with the SD-RAM
AG16	RDQS0	O	Data strobe signal (positive) output to the SD-RAM
AG17	RCLK0	O	Clock signal (positive) output to the SD-RAM
AG18	RDQS1_	O	Data strobe signal (negative) output to the SD-RAM
AG19, AG20	RDQ7, RDQ4	I/O	Two-way data bus with the SD-RAM
AG21 to AG23	NFD7, NFD4, NFD2	I/O	Two-way data bus with the NAND flash
AG25	GPIO8	O	VBUS on/off control signal output terminal for WLAN/BT COMBO card "H": VBUS on
AG26	VCLK	O	Serial data transfer clock signal output to the system controller
AG27	VDATA	I	Serial data input from the system controller
AG28	LCDRD	O	Serial data output to the system controller
AH1 to AH3	RDQ18, RDQ19, RDQ24	I/O	Two-way data bus with the SD-RAM
AH4	RDQM3	O	Data mask signal output to the SD-RAM
AH5	RDQS2_	O	Data strobe signal (negative) output to the SD-RAM
AH6	RCLK1_	O	Clock signal (negative) output to the SD-RAM
AH7	RDQS3	O	Data strobe signal (positive) output to the SD-RAM
AH8	RDQ23	I/O	Two-way data bus with the SD-RAM
AH10, AH11	RA0, RA7	O	Address signal output to the SD-RAM
AH13	RCKE	O	Clock enable signal output to the SD-RAM
AH14	RDQ2	I/O	Two-way data bus with the SD-RAM
AH16	RDQS0_	O	Data strobe signal (negative) output to the SD-RAM
AH17	RCLK0_	O	Clock signal (negative) output to the SD-RAM
AH18	RDQS1	O	Data strobe signal (positive) output to the SD-RAM
AH19	RDQM0	O	Data mask signal output to the SD-RAM
AH20	RDQ6	I/O	Two-way data bus with the SD-RAM
AH22, AH23	NFD5, NFD3	I/O	Two-way data bus with the NAND flash
AH25	OPWRSB	O	Power control signal output to the system controller
AH26	UATXD	-	Not used
AH27	VSTB	-	Not used
AH28	IR	-	Not used

MB-1407 BOARD (1/12) IC102, IC103 K4B2G1646Q-BCMA (DDR 3 RAM)

Pin No.	Pin Name	I/O	Description
A1	VDDQ	-	DQ Power Supply: 1.5V +/-0.075V
A2	DQU5	I/O	Data Input/output: Bi-directional data bus.
A3	DQU7	I/O	Data Input/output: Bi-directional data bus.
A4	NO_USE	-	Not used
A5	NO_USE	-	Not used
A6	NO_USE	-	Not used
A7	DQU4	I/O	Data Input/output: Bi-directional data bus.
A8	VDDQ	-	DQ Power Supply: 1.5V +/-0.075V
A9	VSS	-	Ground
B1	VSSQ	-	DQ Ground
B2	VDD	-	Power Supply: 1.5V +/-0.075
B3	VSS	-	Ground
B4	NO_USE	-	Not used
B5	NO_USE	-	Not used
B6	NO_USE	-	Not used
B7	$\overline{\text{DQSU}}$	I/O	Data Strobe: Output with read data, input with write data. Edge-aligned with read data, centered in write data. For the x16, DQSL: corresponds to the data on DQL0-DQL7; DQSU corresponds to the data on DQU0-DQU7. The data strobe DQS, DQSL and DQSU are paired with differential signals DQS, DQSL and DQSU, respectively, to provide differential pair signaling to the system during reads and writes. DDR3 SDRAM supports differential data strobe only and does not support single-ended.
B8	DQU6	I/O	Data Input/output: Bi-directional data bus.
B9	VSSQ	-	DQ Ground
C1	VDDQ	-	DQ Power Supply: 1.5V +/-0.075V
C2	DQU3	I/O	Data Input/output: Bi-directional data bus.
C3	DQU1	I/O	Data Input/output: Bi-directional data bus.
C4	NO_USE	-	Not used
C5	NO_USE	-	Not used
C6	NO_USE	-	Not used
C7	DQSU	I/O	Data Strobe: Output with read data, input with write data. Edge-aligned with read data, centered in write data. For the x16, DQSL: corresponds to the data on DQL0-DQL7; DQSU corresponds to the data on DQU0-DQU7. The data strobe DQS, DQSL and DQSU are paired with differential signals DQS, DQSL and DQSU, respectively, to provide differential pair signaling to the system during reads and writes. DDR3 SDRAM supports differential data strobe only and does not support single-ended.
C8	DQU2	I/O	Data Input/output: Bi-directional data bus.
C9	VDDQ	-	DQ Power Supply: 1.5V +/-0.075V
D1	VSSQ	-	DQ Ground
D2	VDDQ	-	DQ Power Supply: 1.5V +/-0.075V
D3	DMU	I	Input Data Mask: DM is an input mask signal for write data. Input data is masked when DM is sampled HIGH coincident with that input data during a Write access. DM is sampled on both edges of DQS. For x8 device, the function of DM or TDQS/ $\overline{\text{TDQS}}$ is enabled by Mode Register A11 setting in MR1.
D4	NO_USE	-	Not used
D5	NO_USE	-	Not used
D6	NO_USE	-	Not used
D7	DQU0	I/O	Data Input/output: Bi-directional data bus.
D8	VSSQ	-	DQ Ground
D9	VDD	-	Power Supply: 1.5V +/-0.075
E1	VSS	-	Ground
E2	VSSQ	-	DQ Ground
E3	DQL0	I/O	Data Input/output: Bi-directional data bus.
E4	NO_USE	-	Not used
E5	NO_USE	-	Not used
E6	NO_USE	-	Not used
E7	DML	I	Input Data Mask: DM is an input mask signal for write data. Input data is masked when DM is sampled HIGH coincident with that input data during a Write access. DM is sampled on both edges of DQS. For x8 device, the function of DM or TDQS/ $\overline{\text{TDQS}}$ is enabled by Mode Register A11 setting in MR1.
E8	VSSQ	-	DQ Ground
E9	VDDQ	-	DQ Power Supply: 1.5V +/-0.075V

Pin No.	Pin Name	I/O	Description
F1	VDDQ	-	DQ Power Supply: 1.5V +/-0.075V
F2	DQL2	I/O	Data Input/output: Bi-directional data bus.
F3	DQSL	I/O	Data Strobe: Output with read data, input with write data. Edge-aligned with read data, centered in write data. For the x16, DQSL: corresponds to the data on DQL0-DQL7; DQSU corresponds to the data on DQU0-DQU7. The data strobe DQS, DQSL and DQSU are paired with differential signals DQS, DQSL and DQSU, respectively, to provide differential pair signaling to the system during reads and writes. DDR3 SDRAM supports differential data strobe only and does not support single-ended.
F4	NO_USE	-	Not used
F5	NO_USE	-	Not used
F6	NO_USE	-	Not used
F7	DQL1	I/O	Data Input/output: Bi-directional data bus.
F8	DQL3	I/O	Data Input/output: Bi-directional data bus.
F9	VSSQ	-	DQ Ground
G1	VSSQ	-	DQ Ground
G2	DQL6	I/O	Data Input/output: Bi-directional data bus.
G3	$\overline{\text{DQSL}}$	I/O	Data Strobe: Output with read data, input with write data. Edge-aligned with read data, centered in write data. For the x16, DQSL: corresponds to the data on DQL0-DQL7; DQSU corresponds to the data on DQU0-DQU7. The data strobe DQS, DQSL and DQSU are paired with differential signals DQS, DQSL and DQSU, respectively, to provide differential pair signaling to the system during reads and writes. DDR3 SDRAM supports differential data strobe only and does not support single-ended.
G4	NO_USE	-	Not used
G5	NO_USE	-	Not used
G6	NO_USE	-	Not used
G7	VDD	-	Power Supply: 1.5V +/-0.075
G8	VSS	-	Ground
G9	VSSQ	-	DQ Ground
H1	VREFDQ	-	Reference voltage for DQ
H2	VDDQ	-	DQ Power Supply: 1.5V +/-0.075V
H3	DQL4	I/O	Data Input/output: Bi-directional data bus.
H4	NO_USE	-	Not used
H5	NO_USE	-	Not used
H6	NO_USE	-	Not used
H7	DQL7	I/O	Data Input/output: Bi-directional data bus.
H8	DQL5	I/O	Data Input/output: Bi-directional data bus.
H9	VDDQ	-	DQ Power Supply: 1.5V +/-0.075V
J1	NC	-	No Connect: No internal electrical connection is present.
J2	VSS	-	Ground
J3	$\overline{\text{RAS}}$	I	Command Input: $\overline{\text{RAS}}$ (along with $\overline{\text{CS}}$) define the command being entered.
J4	NO_USE	-	Not used
J5	NO_USE	-	Not used
J6	NO_USE	-	Not used
J7	CK	I	Clock: CK is differential clock input. All address and control input signals are sampled on the crossing of the positive edge of CK. Output (read) data is referenced to the crossing of CK.
J8	VSS	-	Ground
J9	NC	-	No Connect: No internal electrical connection is present.
K1	ODT	I	On Die Termination: ODT (registered HIGH) enables termination resistance internal to the DDR3 SDRAM. When enabled, ODT is only applied to each DQ, DQS, DQS and DM/TDQS, NU/TDQS (When TDQS is enabled via Mode Register A11=1 in MR1) signal for x8 configurations. The ODT pin will be ignored if the Mode Register (MR1) is programmed to disable ODT.
K2	VDD	-	Power Supply: 1.5V +/-0.075
K3	$\overline{\text{CAS}}$	I	Command Input: $\overline{\text{CAS}}$ (along with $\overline{\text{CS}}$) define the command being entered.
K4	NO_USE	-	Not used
K5	NO_USE	-	Not used
K6	NO_USE	-	Not used
K7	$\overline{\text{CK}}$	I	Clock: CK is differential clock input. All address and control input signals are sampled on the crossing of the negative edge of CK. Output (read) data is referenced to the crossing of CK.
K8	VDD	-	Power Supply: 1.5V +/-0.075

Pin No.	Pin Name	I/O	Description
K9	CKE	I	Clock Enable: CKE HIGH activates, and CKE LOW deactivates, internal clock signal and device input buffers and output drivers. Talking CKE LOW provides Precharge Power-Down and Self Refresh operation (all banks idle), or Active Power-Down (Row Active in any bank). CKE is asynchronous for self refresh exit. After V _{REFCA} has become stable during the power on and initialization sequence, it must be maintained during all operations (including Self-Refresh). CKE must be maintained high throughout read and write accesses. Input buffers, excluding CK, \overline{CK} , ODT and CKE are disabled during power-down. Input buffers, excluding CKE, are disabled during Self-Refresh.
L1	NC	-	No Connect: No internal electrical connection is present.
L2	\overline{CS}	I	Chip Select: All commands are masked when \overline{CS} is registered HIGH. \overline{CS} provides for external Rank selection on system with multiple Ranks. \overline{CS} is considered part of the command code.
L3	\overline{WE}	I	Command Input: \overline{WE} (along with \overline{CS}) define the command being entered.
L4	NO_USE	-	Not used
L5	NO_USE	-	Not used
L6	NO_USE	-	Not used
L7	A10	I	Address inputs: Provided the row address for active commands and the column address for Read/Write commands to select one location out of the memory array in the respective bank. The address inputs also provide the op-code during Mode Register Set commands. Autoprecharge: A10 is sampled during Read/Write commands to determine whether Auto-precharge should be performed to the accessed bank after the Read/Write operation. (HIGH: Autoprecharge; LOW: No Autoprecharge) A10 is sampled during a Precharge command to determine the Percharge applies to one bank (A10 LOW) or all banks (A10 HIGH). If only one bank is to be precharged, the bank is selected by bank addresses.
L8	ZQ	-	Reference Pin for ZQ calibration
L9	NC	-	No Connect: No internal electrical connection is present.
M1	VSS	-	Ground
M2	BA0	I	Bank Address Inputs: BA0 define to which bank an Active, Read, Write or Precharge command is being applied. Bank address also determines if the mode register or extended mode register is to be accessed during a MRS cycle.
M3	BA2	I	Bank Address Inputs: BA2 define to which bank an Active, Read, Write or Precharge command is being applied. Bank address also determines if the mode register or extended mode register is to be accessed during a MRS cycle.
M4	NO_USE	-	Not used
M5	NO_USE	-	Not used
M6	NO_USE	-	Not used
M7	NC	-	No Connect: No internal electrical connection is present.
M8	VREFCA	-	Reference voltage for CA
M9	VSS	-	Ground
N1	VDD	-	Power Supply: 1.5V +/-0.075
N2	A3	I	Address inputs: Provided the row address for active commands and the column address for Read/Write commands to select one location out of the memory array in the respective bank. The address inputs also provide the op-code during Mode Register Set commands.
N3	A0	I	Address inputs: Provided the row address for active commands and the column address for Read/Write commands to select one location out of the memory array in the respective bank. The address inputs also provide the op-code during Mode Register Set commands.
N4	NO_USE	-	Not used
N5	NO_USE	-	Not used
N6	NO_USE	-	Not used
N7	A12	I	Address inputs: Provided the row address for active commands and the column address for Read/Write commands to select one location out of the memory array in the respective bank. The address inputs also provide the op-code during Mode Register Set commands. Burst Chop: A12 is sampled during Read and Write commands to determine if burst chop (on-the-fly) will be performed. (HIGH: no burst chop, LOW: burst chopped).
N8	BA1	I	Bank Address Inputs: BA1 define to which bank an Active, Read, Write or Precharge command is being applied. Bank address also determines if the mode register or extended mode register is to be accessed during a MRS cycle.
N9	VDD	-	Power Supply: 1.5V +/-0.075
P1	VSS	-	Ground
P2	A5	I	Address inputs: Provided the row address for active commands and the column address for Read/Write commands to select one location out of the memory array in the respective bank. The address inputs also provide the op-code during Mode Register Set commands.
P3	A2	I	Address inputs: Provided the row address for active commands and the column address for Read/Write commands to select one location out of the memory array in the respective bank. The address inputs also provide the op-code during Mode Register Set commands.
P4	NO_USE	-	Not used

Pin No.	Pin Name	I/O	Description
P5	NO_USE	-	Not used
P6	NO_USE	-	Not used
P7	A1	I	Address inputs: Provided the row address for active commands and the column address for Read/Write commands to select one location out of the memory array in the respective bank. The address inputs also provide the op-code during Mode Register Set commands.
P8	A4	I	Address inputs: Provided the row address for active commands and the column address for Read/Write commands to select one location out of the memory array in the respective bank. The address inputs also provide the op-code during Mode Register Set commands.
P9	VSS	-	Ground
R1	VDD	-	Power Supply: 1.5V +/-0.075
R2	A7	I	Address inputs: Provided the row address for active commands and the column address for Read/Write commands to select one location out of the memory array in the respective bank. The address inputs also provide the op-code during Mode Register Set commands.
R3	A9	I	Address inputs: Provided the row address for active commands and the column address for Read/Write commands to select one location out of the memory array in the respective bank. The address inputs also provide the op-code during Mode Register Set commands.
R4	NO_USE	-	Not used
R5	NO_USE	-	Not used
R6	NO_USE	-	Not used
R7	A11	I	Address inputs: Provided the row address for active commands and the column address for Read/Write commands to select one location out of the memory array in the respective bank. The address inputs also provide the op-code during Mode Register Set commands.
R8	A6	I	Address inputs: Provided the row address for active commands and the column address for Read/Write commands to select one location out of the memory array in the respective bank. The address inputs also provide the op-code during Mode Register Set commands.
R9	VDD	-	Power Supply: 1.5V +/-0.075
T1	VSS	-	Ground
T2	$\overline{\text{RESET}}$	I	Active Low Asynchronous Reset: Reset is active when $\overline{\text{RESET}}$ is LOW, and inactive when $\overline{\text{RESET}}$ is HIGH. $\overline{\text{RESET}}$ must be HIGH during normal operation. $\overline{\text{RESET}}$ is CMOS rail to rail signal with DC high and low at 80% and 20% of VDD, example, 1.20V for DC high and 0.30V for DC low.
T3	A13	I	Address inputs: Provided the row address for active commands and the column address for Read/Write commands to select one location out of the memory array in the respective bank. The address inputs also provide the op-code during Mode Register Set commands.
T4	NO_USE	-	Not used
T5	NO_USE	-	Not used
T6	NO_USE	-	Not used
T7	NC	-	No Connect: No internal electrical connection is present.
T8	A8	I	Address inputs: Provided the row address for active commands and the column address for Read/Write commands to select one location out of the memory array in the respective bank. The address inputs also provide the op-code during Mode Register Set commands.
T9	VSS	-	Ground

MB-1407 BOARD (6/12) IC3004 MB9BF128SPMC-GE1 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	VCC	-	Power supply terminal (+3.3V)
2	NO USE	-	Not used
3	NO USE	-	Not used
4	NO USE	-	Not used
5	O-LED_DC	O	O-LED data/command selection
6	NO USE	-	Not used
7	NO USE	-	Not used
8	NO USE	-	Not used
9	NO USE	-	Not used
10	NO USE	-	Not used
11	PCONT_O-LED	O	Power control for O-LED
12	O-LED_CS	O	O-LED chip selection
13	O-LED_RESET	O	O-LED reset operation
14	O-LED_DOUT	O	O-LED driver data out
15	O-LED_CLK	O	O-LED driver clock out
16	BD_SDO (IF_SDI)	I	BD → IF-con data in
17	BD_SDI (IF_SDO)	O	IF-con → BD data out
18	BD_CLK	I	IF-con ← BD clock out
19	BD_CS	O	BD chip select
20	HDMI(9678)_SDA	I/O	Two-way I2C data bus with the HDMI transceiver
21	HDMI(9678)_SCL	I/O	I2C clock signal output to the HDMI transceiver
22	HDMI(9678)_RESET	O	Reset signal to the HDMI transceiver "H" : reset
23	HDMI(9678)_INT	I	Interrupt signal input from the HDMI transceiver
24	SIRCS_IN	I	SIRCS signal input from the remote control receiver
25	VSS	-	Ground terminal
26	NO USE	-	Not used
27	NO USE	-	Not used
28	NO USE	-	Not used
29	NO USE	-	Not used
30	NO USE	-	Not used
31	NO USE	-	Not used
32	NO USE	-	Not used
33	BD_LED	O	LED drive signal output terminal for the illumination (blue) "H": LED on
34	NO USE	-	Not used
35	NFC_IRQ	I	Radio data reception signal input from the NFC module
36	VSS	-	Ground terminal
37	VCC	-	Power supply terminal (+3.3V)
38	NFC_RFDET	I	Magnetic field detection signal input from the NFC module "L": magnetic field is detected
39	NFC_DATA	I/O	Bidirectional Pin that is used to send and receive memory addresses or data
40	NFC_CLK	I/O	Clock input pin for data I/O timing
41	NO USE	-	Not used
42	NO USE	-	Not used
43	NO USE	-	Not used
44	C	I	Regulator stabilization capacity connecting pin
45	VSS	-	Ground terminal
46	VCC	-	Power supply terminal (+3.3V)
47	NO USE	-	Not used
48	DAMP_XPDN	O	DAMP processor power down control
49	INITX(RESET)	I	Micom reset port
50	DC_DET	I	Speaker DC detection signal input terminal "L": speaker DC is detected
51	NO USE	-	Not used
52	NO USE	-	Not used
53	DAMP_XRST	O	DAMP processor reset
54	DAMP_SCL	I/O	Serial data transfer clock signal output to the stream processor
55	DAMP_SDA	I/O	Two-way data bus with the stream processor
56	DAMP_XMUTE	O	DAMP processor soft muting
57	NO USE	-	Not used
58	HDMI_IN1_INT	I	Interrupt signal input from the HDMI transceiver

Pin No.	Pin Name	I/O	Description
59	HDMI_IN1_RESET	O	Reset signal output to the HDMI transceiver "H": reset
60	NO USE	-	Not used
61	NO USE	-	Not used
62	CLIP	I	For digital VACS (LOW: detect overflow)
63	5VPWR	O	Control for HDMI out 5V power
64	NO USE	-	Not used
65	SPARTA_PCONT	O	Power control for HDMI transceiver
66	NO USE	-	Not used
67	RG_PCONT	-	Rogue IC power control
68	MD1	I	UCOM mode setting terminal
69	MD0	I	UCOM mode setting terminal
70	X0	I	Clock signal output (4MHz)
71	X1	O	Clock signal output (4MHz)
72	VSS	-	Ground terminal
73	VCC	-	Power supply terminal (+3.3V)
74	PCONT_IR	O	IR_repeater select
75	PCONT_AMP	O	DRIVER GVDD12V FET SW control
76	NO USE	-	Not used
77	NO USE	-	Not used
78	Update UART Rx	O	Special update data serial
79	Update UART Tx	O	Special update data serial
80	PCONT_WOL_STDBY	O	Power control for WOL standby mode
81	NO USE	-	Not used
82	NO USE	-	Not used
83	WS_INT	I	Wireless sound interrupt
84	WS_RST	O	Wireless sound reset
85	WS_SDA	I/O	Wireless sound data
86	WS_SCL	I/O	Wireless sound clock
87	NO USE	-	Not used
88	NO USE	-	Not used
89	KEY0	I	Key Input 0
90	AVCC	-	Power supply terminal (+3.3V)
91	AVSS	-	Ground terminal
92	AVRL	I	A/D converter analog reference voltage input pin
93	AVRH	I	Standard power supply pin for A/D converter
94	KEY1	I	Key input 1
95	KEY2	I	Key input 2
96	DRIVER_SD	I	DAMP driver shut down and PVDD detect for protect
97	HDMI(9575+9679)_SCL	I/O	I2C clock signal output to the HDMI transceiver
98	HDMI(9575+9679)_SDA	I/O	Two-way I2C data bus with the HDMI transceiver
99	HDMI(9575)_INT	I	Interrupt signal input from the HDMI transceiver
100	ON CHIP DEBUG / CLK1	I	On chip debugger
101	(PROG_VUTX)	O	Programming UART TX (micom)
102	(PROG_VURX)	I	Programming UART RX (micom)
103	AC_CUT	I	AC cut detection signal input terminal "L": AC cut is detected
104	HDMI(9575)_RESET	O	Reset signal output to the HDMI transceiver "H": reset
105	WOL_WLAN	I	WOL wake up detect port
106	NO USE	-	Not used
107	VCC	-	Power supply terminal (+3.3V)
108	VSS	-	Ground terminal
109	VCC	-	Power supply terminal (+3.3V)
110	(NO USE)	-	J-TAG test reset input
111	TCK	O	Power-up or held low for proper operation of the processor.
112	TDI	O	Test data input terminal (for JTAG) Not used
113	TMS	O	Test mode selection signal input terminal (for JTAG) Not used
114	TDO	O	Test data output terminal (for JTAG) Not used

Pin No.	Pin Name	I/O	Description
115	NO USE	-	Not used
116	NO USE	-	Not used
117	NO USE	-	Not used
118	NO USE	-	Not used
119	PCONT1	O	Power control for power supply 1
120	NO USE	-	Not used
121	NO USE	-	Not used
122	NO USE	-	Not used
123	PCONT3	O	Power control for BD 2
124	NO USE	-	Not used
125	NO USE	-	Not used
126	VCC	-	Power supply terminal (+3.3V)
127	VSS	-	Ground terminal
128	MODEL_DETECT	I	Model detect port (HIGH)
129	NO USE	-	Not used
130	PVDD_STBY	O	Power supply PVDD select (32V/20V)
131	BD_RESET	O	BD reset control
132	JIG_MODE1	I/O	To MB (BD JIG Mode)
133	NO USE	-	Not used
134	UPG_STATUS	I	To MB (BD Update Status)
135	BD_IF_REQ	I	BD IF request (BDSYS → IFCON)
136	BD_IF_START	O	BD IF ready (IFCON → BDSYS)
137	OPWRSB	I	To MB (It is pull down on the MB side though it is an input, and unused of an undecided specification).
138	NAND_RESET	O	NAND reset control
139	FLASH_WRITE_SEL	I	Flash write mode select ("L"= serial, "H"=USB)
140	CEC_TX_RX	I/O	CEC data In/Out
141	VCC	-	Power supply terminal (+3.3V)
142	NO USE	-	Not used
143	NO USE	-	Not used
144	VSS	-	Ground terminal

MB-1407 BOARD (9/12) IC3506 SII9575CTUC (HDMI TRANSCEIVER)

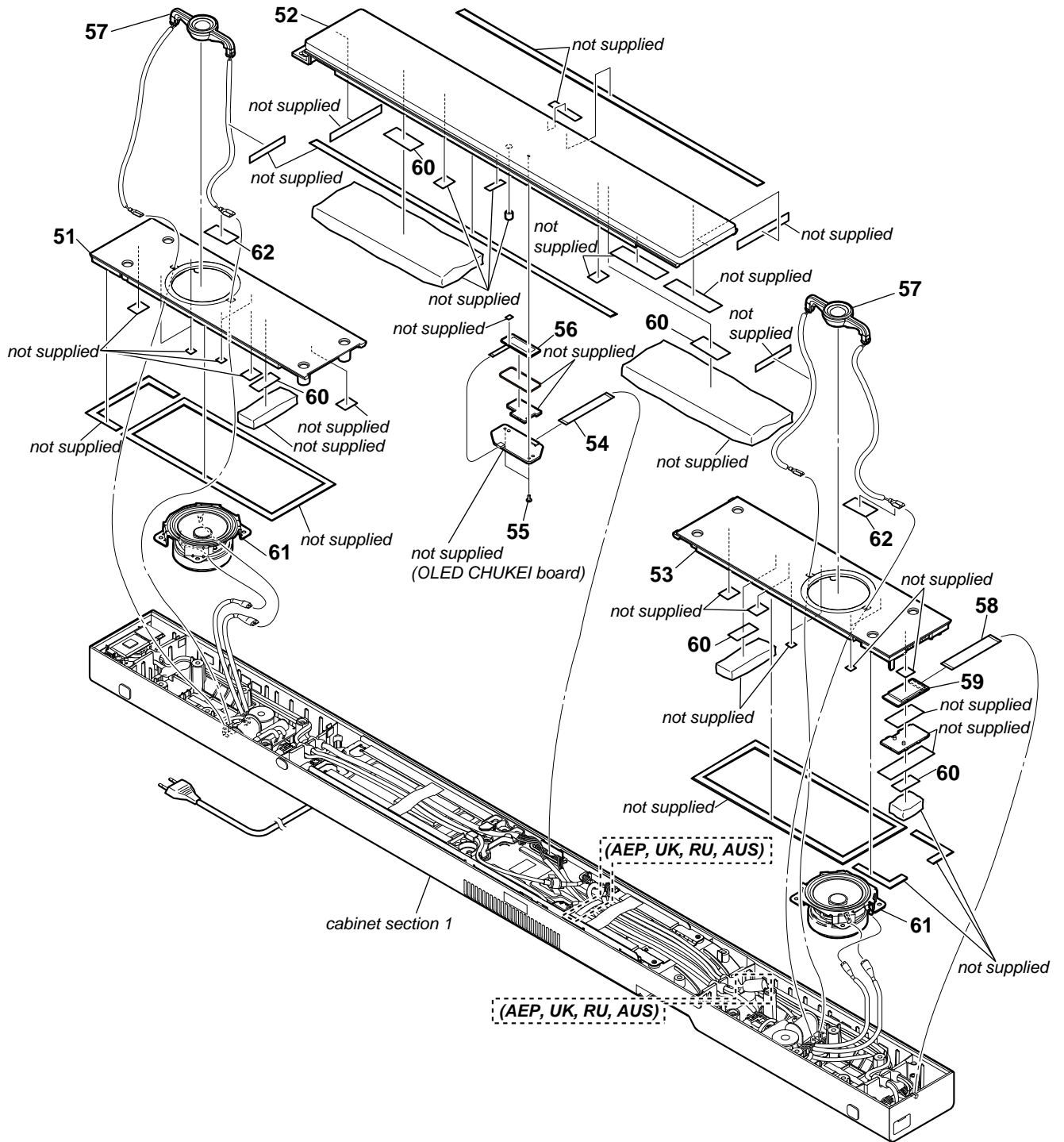
Pin No.	Pin Name	I/O	Description
1 to 6	D14 to D19	I	Video data input terminal Not used
7	DE	I	Data enable signal input terminal Not used
8	VSYNC	I	Vertical sync signal input terminal Not used
9	HSYNC	I	Horizontal sync signal input terminal Not used
10	R0XC-	I	TMDS clock (negative) signal input from the HDMI IN 9 (VIDEO 2) connector
11	R0XC+	I	TMDS clock (positive) signal input from the HDMI IN 9 (VIDEO 2) connector
12	R0X0-	I	TMDS data (negative) input from the HDMI IN 9 (VIDEO 2) connector
13	R0X0+	I	TMDS data (positive) input from the HDMI IN 9 (VIDEO 2) connector
14	R0X1-	I	TMDS data (negative) input from the HDMI IN 9 (VIDEO 2) connector
15	R0X1+	I	TMDS data (positive) input from the HDMI IN 9 (VIDEO 2) connector
16	R0X2-	I	TMDS data (negative) input from the HDMI IN 9 (VIDEO 2) connector
17	R0X2+	I	TMDS data (positive) input from the HDMI IN 9 (VIDEO 2) connector
18	AVDD12	-	Power supply terminal (+1.2V)
19	AVDD33	-	Power supply terminal (+3.3V)
20	R1XC-	I	TMDS clock (negative) signal input from the HDMI input selector
21	R1XC+	I	TMDS clock (positive) signal input from the HDMI input selector
22	R1X0-	I	TMDS data (negative) input from the HDMI input selector
23	R1X0+	I	TMDS data (positive) input from the HDMI input selector
24	R1X1-	I	TMDS data (negative) input from the HDMI input selector
25	R1X1+	I	TMDS data (positive) input from the HDMI input selector
26	R1X2-	I	TMDS data (negative) input from the HDMI input selector
27	R1X2+	I	TMDS data (positive) input from the HDMI input selector
28	R2XC-	I	TMDS clock (negative) signal input from the HDMI input selector
29	R2XC+	I	TMDS clock (positive) signal input from the HDMI input selector
30	R2X0-	I	TMDS data (negative) input from the HDMI input selector
31	R2X0+	I	TMDS data (positive) input from the HDMI input selector
32	R2X1-	I	TMDS data (negative) input from the HDMI input selector
33	R2X1+	I	TMDS data (positive) input from the HDMI input selector
34	R2X2-	I	TMDS data (negative) input from the HDMI input selector
35	R2X2+	I	TMDS data (positive) input from the HDMI input selector
36	AVDD12	-	Power supply terminal (+1.2V)
37	CVCC12	-	Power supply terminal (+1.2V)
38	AVDD33	-	Power supply terminal (+3.3V)
39	R3XC-	I	TMDS clock (negative) signal input from the HDMI ASSIGNABLE (INPUT ONLY) IN 3 (SA-CD/CD) connector
40	R3XC+	I	TMDS clock (positive) signal input from the HDMI ASSIGNABLE (INPUT ONLY) IN 3 (SA-CD/CD) connector
41	R3X0-	I	TMDS data (negative) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 3 (SA-CD/CD) connector
42	R3X0+	I	TMDS data (positive) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 3 (SA-CD/CD) connector
43	R3X1-	I	TMDS data (negative) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 3 (SA-CD/CD) connector
44	R3X1+	I	TMDS data (positive) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 3 (SA-CD/CD) connector
45	R3X2-	I	TMDS data (negative) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 3 (SA-CD/CD) connector
46	R3X2+	I	TMDS data (positive) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 3 (SA-CD/CD) connector
47	R4XC-	I	TMDS clock (negative) signal input from the HDMI ASSIGNABLE (INPUT ONLY) IN 2 (BD) connector
48	R4XC+	I	TMDS clock (positive) signal input from the HDMI ASSIGNABLE (INPUT ONLY) IN 2 (BD) connector
49	R4X0-	I	TMDS data (negative) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 2 (BD) connector
50	R4X0+	I	TMDS data (positive) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 2 (BD) connector
51	R4X1-	I	TMDS data (negative) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 2 (BD) connector
52	R4X1+	I	TMDS data (positive) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 2 (BD) connector
53	R4X2-	I	TMDS data (negative) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 2 (BD) connector

Pin No.	Pin Name	I/O	Description
54	R4X2+	I	TMDS data (positive) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 2 (BD) connector
55	AVDD12	-	Power supply terminal (+1.2V)
56	AVDD33	-	Power supply terminal (+3.3V)
57	R5XC-	I	TMDS clock (negative) signal input from the HDMI ASSIGNABLE (INPUT ONLY) IN 1 (VIDEO 1) connector
58	R5XC+	I	TMDS clock (positive) signal input from the HDMI ASSIGNABLE (INPUT ONLY) IN 1 (VIDEO 1) connector
59	R5X0-	I	TMDS data (negative) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 1 (VIDEO 1) connector
60	R5X0+	I	TMDS data (positive) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 1 (VIDEO 1) connector
61	R5X1-	I	TMDS data (negative) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 1 (VIDEO 1) connector
62	R5X1+	I	TMDS data (positive) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 1 (VIDEO 1) connector
63	R5X2-	I	TMDS data (negative) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 1 (VIDEO 1) connector
64	R5X2+	I	TMDS data (positive) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 1 (VIDEO 1) connector
65	CVCC12	-	Power supply terminal (+1.2V)
66	CSCL	I	I2C serial data transfer clock signal input from the video system controller
67	CSDA	I/O	Two-way I2C serial data bus with the video system controller, video processor and HDMI input selector
68	INT	O	Interrupt signal output to the video system controller
69	RESET	I	Reset signal input from the video system controller "L": reset
70	TPWR_CI2CA	I/O	Not used
71	CEC_A1	I/O	Not used
72	CEC_A0WAKEUP	I/O	Not used
73	DSDA6	I/O	I2C serial data bus terminal Not used
74	DSCL6	I	I2C serial data transfer clock signal input terminal Not used
75	LPSVCC33	-	Not used
76	DSDA0	I/O	I2C serial data bus with the HDMI IN 9 (VIDEO 2) connector
77	DSCL0	I	I2C serial data transfer clock signal input from the HDMI IN 9 (VIDEO 2) connector
78	CBUS_HPDP0	O	Hot plug detection signal output to the HDMI IN 9 (VIDEO 2) connector
79	R0PWR5V	I	Power supply voltage (+5V) input from the HDMI IN 9 (VIDEO 2) connector
80	DSDA1	I/O	I2C serial data bus with the HDMI input selector
81	DSCL1	I	I2C serial data transfer clock signal input from the HDMI input selector
82	CBUS_HPDP1	O	Hot plug detection signal output to the HDMI input selector
83	R1PWR5V	I	Power supply voltage (+5V) input terminal
84	DSDA2	I/O	I2C serial data bus with the HDMI input selector
85	DSCL2	I	I2C serial data transfer clock signal input from the HDMI input selector
86	CBUS_HPDP2	O	Hot plug detection signal output to the HDMI input selector
87	R2PWR5V	I	Power supply voltage (+5V) input terminal
88	DSDA3	I/O	I2C serial data bus with the HDMI ASSIGNABLE (INPUT ONLY) IN 3 connector
89	DSCL3	I	I2C serial data transfer clock signal input from the HDMI ASSIGNABLE (INPUT ONLY) IN 3 (SA-CD/CD) connector
90	CBUS_HPDP3	O	Hot plug detection signal output to the HDMI ASSIGNABLE (INPUT ONLY) IN 3 (SA-CD/CD) connector
91	R3PWR5V	I	Power supply voltage (+5V) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 3 (SA-CD/CD) connector
92	DSDA4	I/O	I2C serial data bus with the HDMI ASSIGNABLE (INPUT ONLY) IN 2 (BD) connector
93	DSCL4	I	I2C serial data transfer clock signal input from the HDMI ASSIGNABLE (INPUT ONLY) IN 2 (BD) connector
94	CBUS_HPDP4	O	Hot plug detection signal output to the HDMI ASSIGNABLE (INPUT ONLY) IN 2 (BD) connector
95	R4PWR5V	I	Power supply voltage (+5V) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 2 (BD) connector
96	RSVDL	-	Not used
97	DSDA5	I/O	I2C serial data bus with the HDMI ASSIGNABLE (INPUT ONLY) IN 1 (VIDEO 1) connector
98	DSCL5	I	I2C serial data transfer clock signal input from the HDMI ASSIGNABLE (INPUT ONLY) IN 1 (VIDEO 1) connector
99	CBUS_HPDP5	O	Hot plug detection signal output to the HDMI ASSIGNABLE (INPUT ONLY) IN 1 (VIDEO 1) connector

Pin No.	Pin Name	I/O	Description
100	R5PWR5V	I	Power supply voltage (+5V) input from the HDMI ASSIGNABLE (INPUT ONLY) IN 1 (VIDEO 1) connector
101	SBVCC5V	-	Power supply terminal (+5V)
102	VCC33OUT	O	Power supply (+3.3V) output terminal
103	MHL0_CD0/GPIO0	I/O	Not used
104	MHL1_CD1/GPIO1	I/O	Not used
105	TX_HPDP0	O	Hot plug detection signal input from the video processor
106	TXDSDA0	I/O	I2C serial data bus terminal Not used
107	TXDSCLO	O	I2C serial data transfer clock signal output terminal Not used
108	TX_HPDP1	I	Hot plug detection signal input from the HDMI ZONE 2 OUT connector
109	TXDSDA1	I/O	I2C serial data bus with the HDMI ZONE 2 OUT connector
110	TXDSCLO1	O	I2C serial data transfer clock signal output to the HDMI ZONE 2 OUT connector
111	APLL12	-	Power supply terminal (+1.2V)
112	XTALVCC33	-	Power supply terminal (+3.3V)
113	XTALOUT	O	System clock (27 MHz) output terminal
114	XTALIN	I	System clock input terminal Not used
115	XTALGND	-	Ground terminal
116	CVCC12	-	Power supply terminal (+1.2V)
117	SS/GPIO2	I/O	Not used
118	SCLK/GPIO3	I/O	Not used
119	SD0/GPIO4	I/O	Not used
120	SD1/GPIO5	I/O	Not used
121	WS0_OUT/DR0	O	L/R sampling clock signal output to the DSP1 DSD audio data output to the video processor
122	SCK0/DDCK	O	Bit clock signal output to the video processor and DSP1 DSD audio clock signal output to the video processor
123	IOVCC33	-	Power supply terminal (+3.3V)
124	SD0_0/DL0	O	Digital audio signal output to the DSP1 DSD audio data output to the video processor
125	MCLK	O	Master clock signal output to the video processor
126	SD0_1/DR1/GPIO6	O	Digital audio signal output to the DSP1 DSD audio data output to the video processor
127	SD0_2/DL1/GPIO7	O	Digital audio signal output to the DSP1 DSD audio data output to the video processor
128	SD0_3/DR2/GPIO8	O	Digital audio signal output to the DSP1 DSD audio data output to the video processor
129	MUTEOUT/GPIO9	O	HDMI error signal output to the main system controller "H": error Audio muting control signal output terminal
130	SPDIF0_OUT/DL2	O	S/PDIF audio signal output to the digital audio interface receiver and DSP1 DSD audio data output to the video processor
131	WS0_IN/GPIO11	I/O	Not used
132	SCK0_IN/GPIO10	I/O	Not used
133	SD0_IN/SPDIF0_IN	I	Not used
134	SCK1_IN/SCK1_OUT	I/O	Not used
135	WS1_IN/WS1_OUT	I/O	Not used
136	SD1_IN/SD1_OUT/ SPDIF1_IN/SPDIF1_OUT	O	S/PDIF audio signal output to the digital audio interface receiver
137	ARC0	I	Audio return signal input from the HDMI OUT A ARC connector
138	ARC1	I	Audio return signal input terminal Not used
139	CVCC12	-	Power supply terminal (+1.2V)
140	TPVDD12	-	Power supply terminal (+1.2V)
141	TDVDD12	-	Power supply terminal (+1.2V)
142	T1XC-	O	TMDS clock (negative) output to the HDMI ZONE 2 OUT connector
143	T1XC+	O	TMDS clock (positive) output to the HDMI ZONE 2 OUT connector
144	T1X0-	O	TMDS data (negative) output to the HDMI ZONE 2 OUT connector
145	T1X0+	O	TMDS data (positive) output to the HDMI ZONE 2 OUT connector
146	T1X1-	O	TMDS data (negative) output to the HDMI ZONE 2 OUT connector
147	T1X1+	O	TMDS data (positive) output to the HDMI ZONE 2 OUT connector
148	T1X2-	O	TMDS data (negative) output to the HDMI ZONE 2 OUT connector
149	T1X2+	O	TMDS data (positive) output to the HDMI ZONE 2 OUT connector
150	TPVDD12	-	Power supply terminal (+1.2V)

Pin No.	Pin Name	I/O	Description
151	TDVDD12	-	Power supply terminal (+1.2V)
152	T0XC-	O	TMDS clock (negative) output to the video processor
153	T0XC+	O	TMDS clock (positive) output to the video processor
154	T0X0-	O	TMDS data (negative) output to the video processor
155	T0X0+	O	TMDS data (positive) output to the video processor
156	T0X1-	O	TMDS data (negative) output to the video processor
157	T0X1+	O	TMDS data (positive) output to the video processor
158	T0X2-	O	TMDS data (negative) output to the video processor
159	T0X2+	O	TMDS data (positive) output to the video processor
160	CVCC12	-	Power supply terminal (+1.2V)
161 to 171	D0 to D10	I	Video data input terminal Not used
172	IDCK	I	Input data clock signal input terminal Not used
173	IOVCC33	-	Power supply terminal (+3.3V)
174 to 176	D11 to D13	I	Video data input terminal Not used

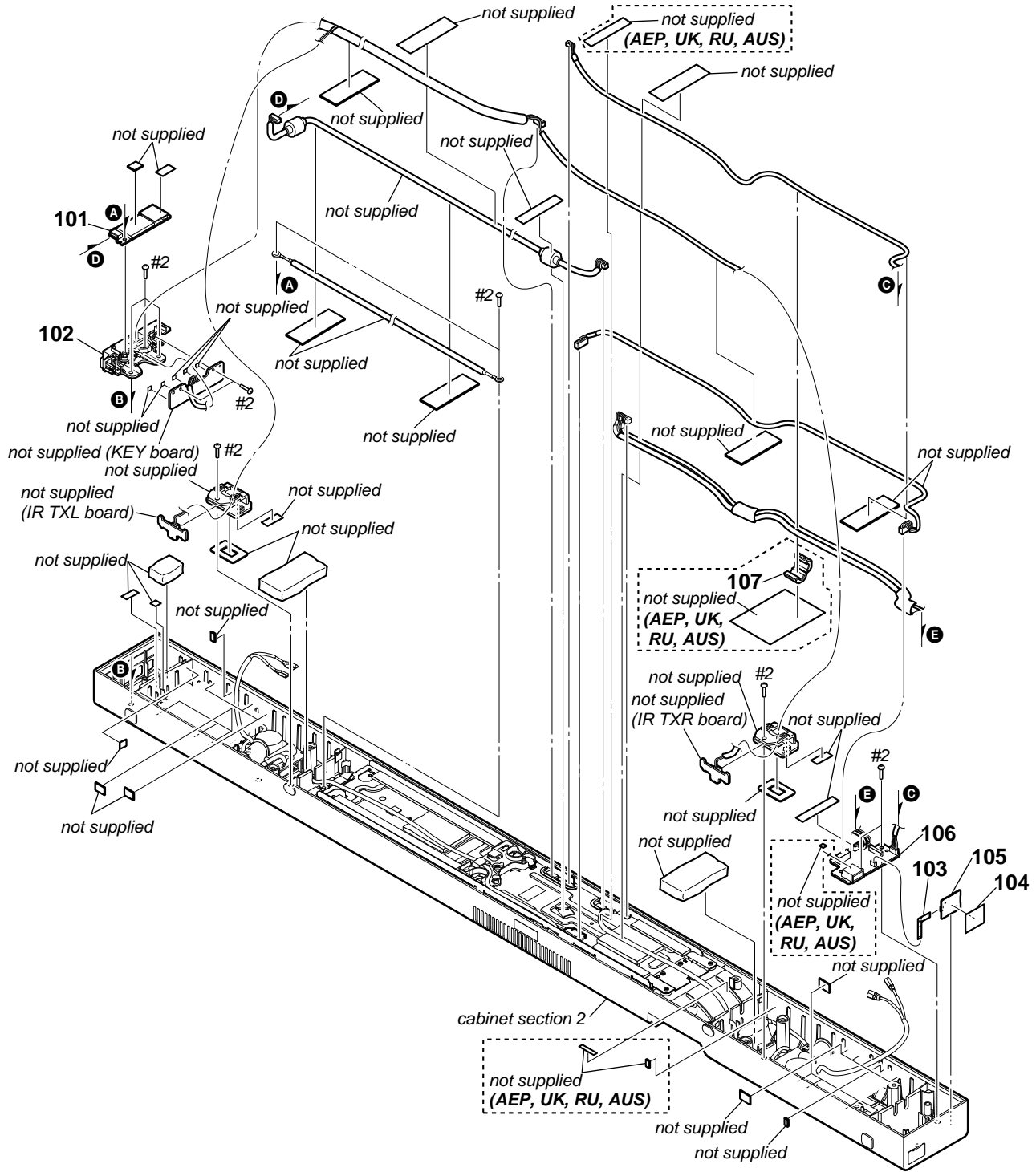
6-2. FRONT PANEL SECTION



Note: If wire (flat type) is replaced, install it after bending it in the same form as that before replacement.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-547-408-01	PANEL, FRONT (LEFT)		57	1-859-082-11	LOUDSPEAKER (1.8CM)	
52	4-547-407-01	PANEL, FRONT (CENTER)		58	1-828-778-51	WIRE (FLAT TYPE) (26 CORE)	
53	4-547-409-01	PANEL, FRONT (RIGHT)		59	1-492-700-61	RF MODULATOR (WS001)	
54	1-849-018-11	WIRE (FLAT TYPE) (14 CORE)		60	4-471-585-01	SHEET (BATT), ADHESIVE	
55	4-674-137-11	SCREW (PTP2X5)		61	1-859-080-12	LOUDSPEAKER (6.5CM)-080-12	
56	1-812-049-11	ELEMENT, ORGANIC EL INDICATOR		62	4-543-826-01	HEMILON, 45X25X0.45	

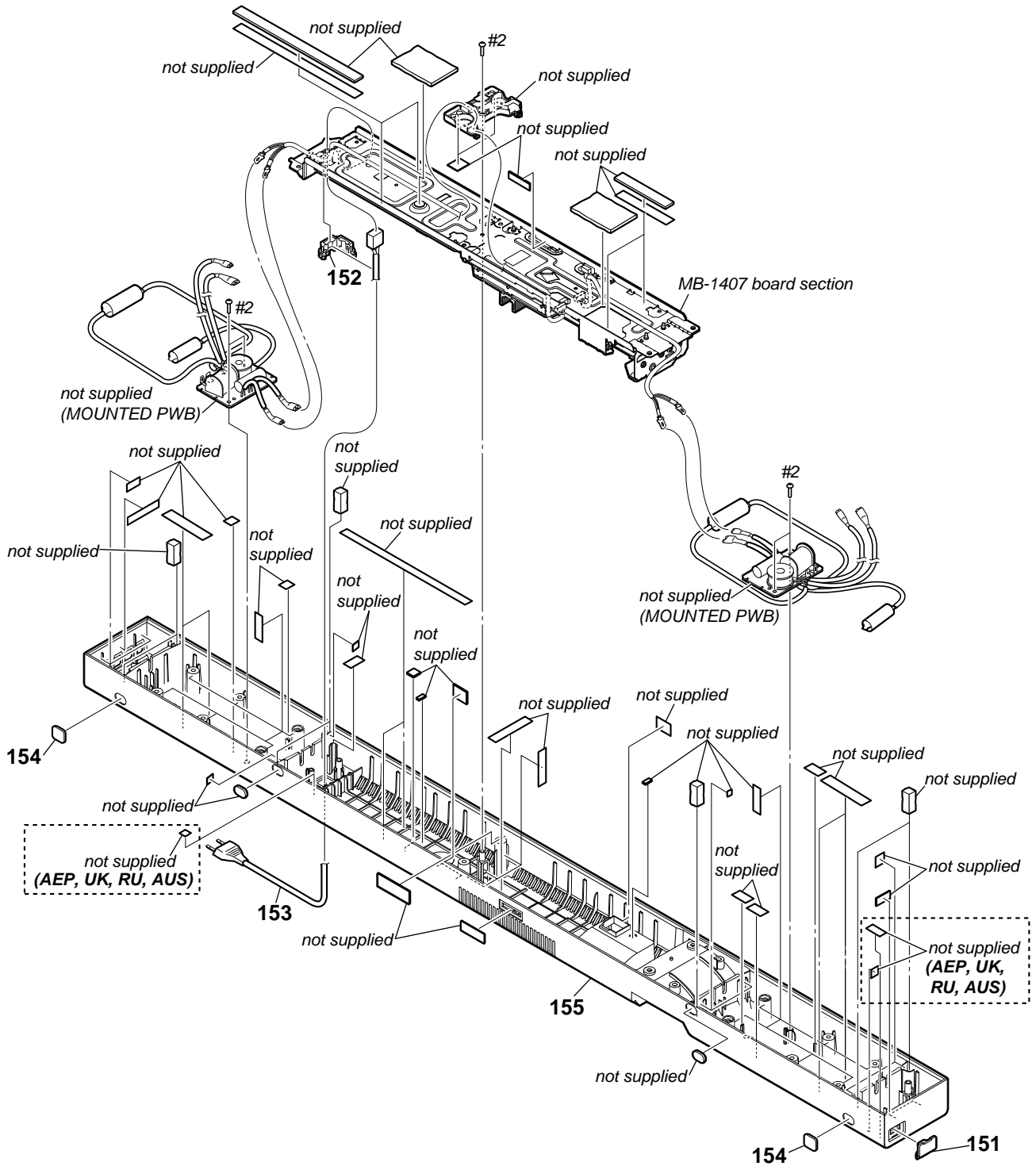
6-3. CABINET SECTION 1



Note: If wire (flat type) is replaced, install it after bending it in the same form as that before replacement.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	1-458-765-21	CARD WLAN/BT COMBO		106	A-2060-208-A	WS CHUKEI BOARD, COMPLETE	
102	4-547-411-01	BUTTON		107	1-481-528-11	FILTER, CLAMP (FERRITE CORE)	(AEP, UK, RU, AUS)
103	1-849-019-11	WIRE (FLAT TYPE) (6 CORE)		#2	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3	
104	4-446-112-01	TAPE, NFC					
105	8-989-602-00	RC-S730 (WW)					

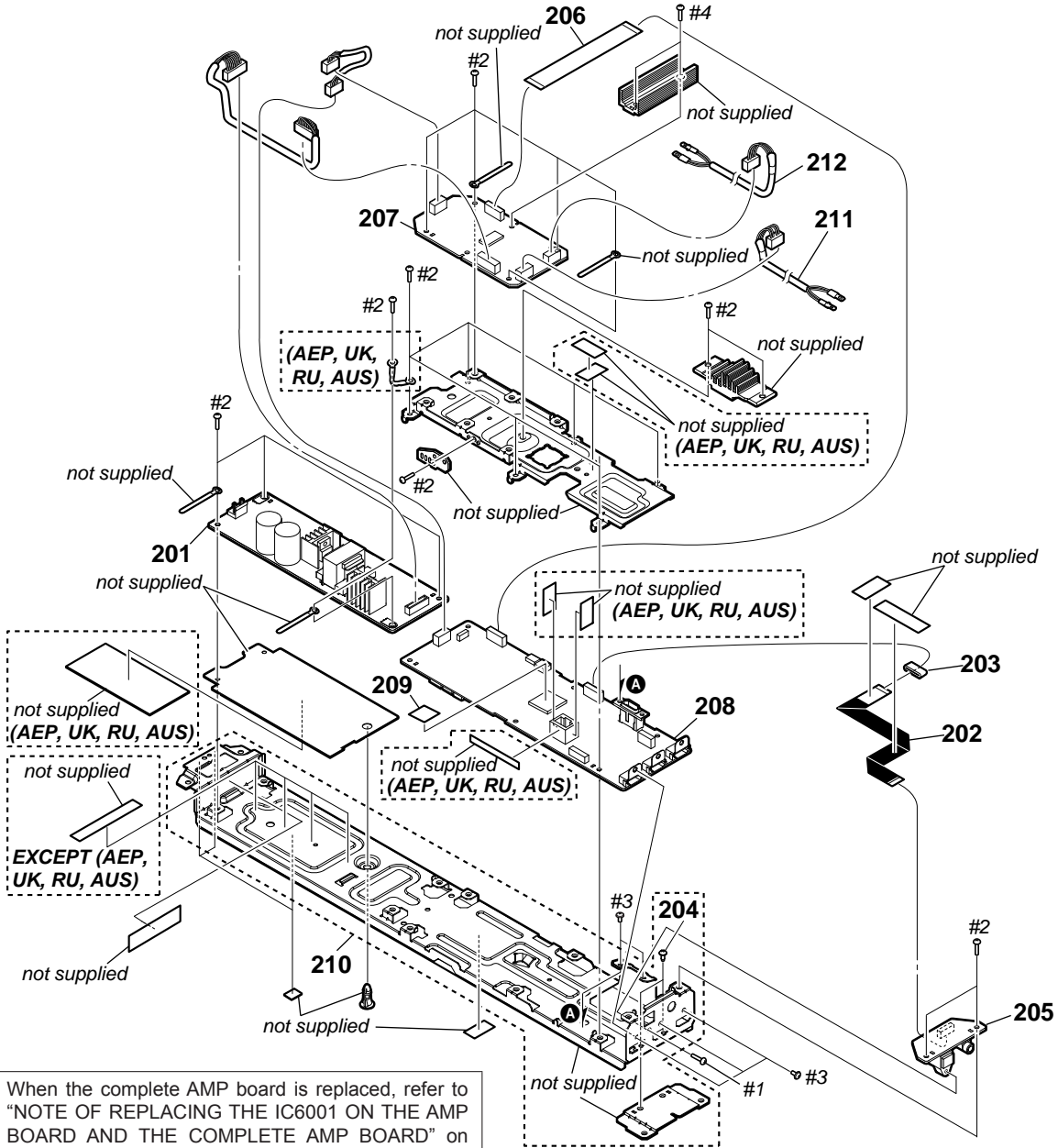
6-4. CABINET SECTION 2



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	151	4-549-218-01	COVER, USB		△ 153	1-839-999-21	POWER-SUPPLY CORD (UK, EA)
△	152	4-966-267-12	BUSHING (FBS001), CORD		154	4-571-780-01	FOOT
△	153	1-834-966-42	POWER-SUPPLY CORD (AEP, RU, E3, SP, LA9)		155	X-2590-644-1	CABINET, ASSY (HB) (EXCEPT US, CND)
△	153	1-835-068-21	CORD, POWER (AUS)		155	X-2590-643-1	CABINET, ASSY (V2) (US, CND)
△	153	1-837-308-12	CORD, POWER-SUPPLY (US, CND)		#2	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3
△	153	1-837-345-11	CORD, POWER-SUPPLY (TW)				

6-5. MB-1407 BOARD SECTION

• Bottom view



Note 1: When the complete AMP board is replaced, refer to "NOTE OF REPLACING THE IC6001 ON THE AMP BOARD AND THE COMPLETE AMP BOARD" on page 5.

Note 2: When the SWITCHING REGULATOR (3L405W) board is replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on page 5.

Note 3: If wire (flat type) is replaced, install it after bending it in the same form as that before replacement.

Ref. No.	Part No.	Description	Remark
△ 201	1-474-602-12	REGULATOR, SWITCHING (3L405W)	
202	1-828-310-51	WIRE (FLAT TYPE) (9 CORE)	
203	1-482-293-11	CORE, FERRITE	
204	3-077-331-21	+BV3 (3-CR)	
205	A-2060-206-A	AUDIO IO BOARD, COMPLETE	
206	1-828-245-51	WIRE (FLAT TYPE) (24 CORE)	
207	A-2060-205-A	AMP BOARD, COMPLETE	
☐ 208	A-2065-400-A	MB-1407 BOARD, COMPLETE (for SERVICE)	(US, CND)
☐ 208	A-2065-494-A	MB-1407 BOARD, COMPLETE (for SERVICE)	(AEP)
☐ 208	A-2065-507-A	MB-1407 BOARD, COMPLETE (for SERVICE)	(UK)
☐ 208	A-2065-512-A	MB-1407 BOARD, COMPLETE (for SERVICE)	(RU)
☐ 208	A-2065-519-A	MB-1407 BOARD, COMPLETE (for SERVICE)	(E3)
☐ 208	A-2065-525-A	MB-1407 BOARD, COMPLETE (for SERVICE)	(EA)

Ref. No.	Part No.	Description	Remark
☐ 208	A-2065-530-A	MB-1407 BOARD, COMPLETE (for SERVICE)	(AUS)
☐ 208	A-2065-540-A	MB-1407 BOARD, COMPLETE (for SERVICE)	(SP)
☐ 208	A-2065-555-A	MB-1407 BOARD, COMPLETE (for SERVICE)	(TW)
☐ 208	A-2072-029-A	MB-1407 BOARD, COMPLETE (for SERVICE)	(LA9)
209	3-279-801-31	SHEET, RADIATION	
210	X-2590-645-1	CHASSIS, BOTTOM ASSY	
211	1-849-008-11	INPUT CABLE	
212	1-849-008-21	INPUT CABLE	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3	
#3	7-682-546-09	SCREW +B 3X5	
#4	7-685-647-71	SCREW +BVTP 3X10 TYPE2 IT-3	

SECTION 7 ELECTRICAL PARTS LIST

Note:

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

- CAPACITORS
uF: μF
- COILS
uH: μH
- SEMICONDUCTORS
In each case, u: μ, for example:
uA. . . : μA. . . , uPA. . . , μPA. . . ,
uPB. . . : μPB. . . , uPC. . . , μPC. . . ,
uPD. . . : μPD. . .
- Abbreviation
AUS : Australian model
CND : Canadian model
E3 : 240V AC area in E model
EA : Saudi Arabia model
LA9 : Latin-American model
RU : Russian model
SP : Singapore model
TW : Taiwan 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.

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

The components identified by mark $\hat{\square}$ contain confidential information.
Strictly follow the instructions whenever the components are repaired and/or replaced.

Les composants identifiés par la marque $\hat{\square}$ contiennent des informations confidentielles.
Suivre scrupuleusement les instructions chaque fois qu'un composant est remplacé et / ou réparé.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	
	A-2060-205-A	AMP BOARD, COMPLETE *****		C6045	1-118-391-11	CERAMIC CHIP 0.01uF 10%	50V	
		< CAPACITOR >		C6046	1-116-716-11	CERAMIC CHIP 10uF 10%	16V	
C6002	1-116-716-11	CERAMIC CHIP 10uF	10%	16V	C6048	1-118-395-11	CERAMIC CHIP 0.0047uF 10%	50V
C6003	1-114-214-81	CERAMIC CHIP 470PF	5%	50V	C6054	1-118-459-11	CERAMIC CHIP 0.01uF 10%	25V
C6004	1-114-214-81	CERAMIC CHIP 470PF	5%	50V	C6055	1-116-731-11	CERAMIC CHIP 2.2uF 20%	6.3V
C6009	1-118-365-11	CERAMIC CHIP 0.047uF	10%	50V	* C6062	1-116-735-11	CERAMIC CHIP 1uF 10%	16V
C6010	1-118-365-11	CERAMIC CHIP 0.047uF	10%	50V	C6063	1-116-874-11	CERAMIC CHIP 10uF 10%	35V
C6011	1-118-365-11	CERAMIC CHIP 0.047uF	10%	50V	C6065	1-118-399-11	CERAMIC CHIP 0.0022uF 10%	50V
C6012	1-118-365-11	CERAMIC CHIP 0.047uF	10%	50V	C6066	1-116-711-11	CERAMIC CHIP 22uF 20%	16V
C6013	1-114-214-81	CERAMIC CHIP 470PF	5%	50V	C6067	1-116-711-11	CERAMIC CHIP 22uF 20%	16V
C6014	1-114-214-81	CERAMIC CHIP 470PF	5%	50V	C6073	1-116-874-11	CERAMIC CHIP 10uF 10%	35V
C6015	1-118-692-11	ELECT CHIP 470uF	20%	35V	C6074	1-118-361-11	CERAMIC CHIP 0.1uF 10%	50V
C6016	1-118-692-11	ELECT CHIP 470uF	20%	35V	C6078	1-120-069-71	FILM 0.22uF 99%	450V
C6017	1-118-044-11	CERAMIC CHIP 1uF	10%	50V	C6079	1-120-069-71	FILM 0.22uF 99%	450V
C6018	1-118-044-11	CERAMIC CHIP 1uF	10%	50V	C6080	1-112-692-11	CERAMIC CHIP 1000PF 5%	50V
C6021	1-118-403-11	CERAMIC CHIP 0.001uF	10%	50V	C6081	1-112-692-11	CERAMIC CHIP 1000PF 5%	50V
C6022	1-118-403-11	CERAMIC CHIP 0.001uF	10%	50V	C6082	1-112-692-11	CERAMIC CHIP 1000PF 5%	50V
C6023	1-118-391-11	CERAMIC CHIP 0.01uF	10%	50V	C6083	1-112-692-11	CERAMIC CHIP 1000PF 5%	50V
C6024	1-118-391-11	CERAMIC CHIP 0.01uF	10%	50V	C6084	1-118-403-11	CERAMIC CHIP 0.001uF 10%	50V
C6025	1-118-403-11	CERAMIC CHIP 0.001uF	10%	50V	C6085	1-118-391-11	CERAMIC CHIP 0.01uF 10%	50V
C6026	1-118-391-11	CERAMIC CHIP 0.01uF	10%	50V	* C6087	1-116-735-11	CERAMIC CHIP 1uF 10%	16V
C6031	1-118-417-11	CERAMIC CHIP 0.1uF	10%	16V	C6088	1-114-385-11	ELECT CHIP 470uF 20%	6.3V
* C6032	1-116-735-11	CERAMIC CHIP 1uF	10%	16V	C6089	1-116-874-11	CERAMIC CHIP 10uF 10%	35V
* C6033	1-116-735-11	CERAMIC CHIP 1uF	10%	16V	C6090	1-116-874-11	CERAMIC CHIP 10uF 10%	35V
* C6034	1-116-720-11	CERAMIC CHIP 10uF	20%	6.3V	C6091	1-118-399-11	CERAMIC CHIP 0.0022uF 10%	50V
* C6035	1-116-720-11	CERAMIC CHIP 10uF	20%	6.3V	C6092	1-118-361-11	CERAMIC CHIP 0.1uF 10%	50V
* C6036	1-116-720-11	CERAMIC CHIP 10uF	20%	6.3V	C6094	1-116-711-11	CERAMIC CHIP 22uF 20%	16V
* C6037	1-116-720-11	CERAMIC CHIP 10uF	20%	6.3V	C6095	1-116-711-11	CERAMIC CHIP 22uF 20%	16V
C6038	1-118-395-11	CERAMIC CHIP 0.0047uF	10%	50V	C6096	1-116-711-11	CERAMIC CHIP 22uF 20%	16V
C6039	1-118-395-11	CERAMIC CHIP 0.0047uF	10%	50V	C6099	1-118-391-11	CERAMIC CHIP 0.01uF 10%	50V
C6040	1-118-388-11	CERAMIC CHIP 0.047uF	10%	25V	C6100	1-117-681-11	ELECT CHIP 100uF 20%	16V
C6041	1-118-388-11	CERAMIC CHIP 0.047uF	10%	25V	C6101	1-116-740-11	CERAMIC CHIP 0.47uF 10%	16V
* C6042	1-116-735-11	CERAMIC CHIP 1uF	10%	16V	C6102	1-116-740-11	CERAMIC CHIP 0.47uF 10%	16V
* C6043	1-116-735-11	CERAMIC CHIP 1uF	10%	16V			< CONNECTOR >	
C6044	1-118-391-11	CERAMIC CHIP 0.01uF	10%	50V	CN6001	1-779-993-11	PIN, CONNECTOR (PWB) 5P	

Note: When the C6078 and C6079 on the AMP board are replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on page 5.

HT-NT3

Ver. 1.1

AMP **AUDIO IO**

Ref. No.	Part No.	Description	Remark
CN6002	1-764-250-21	PIN, CONNECTOR (PC BOARD) 4P	
CN6004	1-815-763-32	CONNECTOR, FFC/FPC 24P	
CN6007	1-764-250-21	PIN, CONNECTOR (PC BOARD) 4P	
CN6008	1-816-296-21	PIN, CONNECTOR (PC BOARD) 9P	
< IC >			
IC6001	6-721-742-01	IC TAS5614LA	
IC6002	6-718-105-01	IC TAS5534DGGR	
IC6003	6-721-694-01	IC RT7272BGSP	
IC6004	6-721-694-01	IC RT7272BGSP	
< JUMPER RESISTOR >			
JC6001	1-216-864-11	SHORT CHIP	0
JC6002	1-216-864-11	SHORT CHIP	0
JC6003	1-216-864-11	SHORT CHIP	0
JC6004	1-216-864-11	SHORT CHIP	0
JC6005	1-216-864-11	SHORT CHIP	0
JC6011	1-216-864-11	SHORT CHIP	0
< COIL >			
L6005	1-469-555-21	INDUCTOR	10uH
L6009	1-460-601-11	INDUCTOR	10uH
L6010	1-400-789-21	INDUCTOR	2.2uH
L6011	1-400-789-21	INDUCTOR	2.2uH
L6012	1-460-601-11	INDUCTOR	10uH
< TRANSISTOR >			
Q6004	6-550-585-01	TRANSISTOR	2PC4081R-115
Q6005	8-729-013-22	TR	HN1A01FU
Q6007	6-552-974-01	TR	RZM001P02T2L
Q6008	6-552-936-01	TR	LTC014EUBFS8TL
< RESISTOR >			
R6001	1-208-922-11	METAL CHIP	30K 0.5% 1/16W
R6002	1-218-937-11	METAL CHIP	47 5% 1/16W
R6003	1-218-937-11	METAL CHIP	47 5% 1/16W
R6004	1-218-937-11	METAL CHIP	47 5% 1/16W
R6005	1-218-937-11	METAL CHIP	47 5% 1/16W
R6011	1-216-001-00	METAL CHIP	10 5% 1/10W
R6012	1-216-001-00	METAL CHIP	10 5% 1/10W
R6013	1-216-001-00	METAL CHIP	10 5% 1/10W
R6014	1-216-001-00	METAL CHIP	10 5% 1/10W
R6025	1-218-967-11	METAL CHIP	15K 5% 1/16W
R6026	1-250-525-11	METAL CHIP	18K 1% 1/16W
R6027	1-250-487-11	METAL CHIP	470 1% 1/16W
R6028	1-250-487-11	METAL CHIP	470 1% 1/16W
R6035	1-218-937-11	METAL CHIP	47 5% 1/16W
R6036	1-218-937-11	METAL CHIP	47 5% 1/16W
R6037	1-218-937-11	METAL CHIP	47 5% 1/16W
R6039	1-218-937-11	METAL CHIP	47 5% 1/16W
R6043	1-218-965-11	METAL CHIP	10K 5% 1/16W
R6044	1-218-965-11	METAL CHIP	10K 5% 1/16W
R6045	1-218-937-11	METAL CHIP	47 5% 1/16W
R6049	1-218-977-11	METAL CHIP	100K 5% 1/16W
R6050	1-218-977-11	METAL CHIP	100K 5% 1/16W
R6056	1-218-965-11	METAL CHIP	10K 5% 1/16W
R6059	1-218-971-81	METAL CHIP	33K 5% 1/16W
R6060	1-218-971-81	METAL CHIP	33K 5% 1/16W
R6065	1-216-845-11	METAL CHIP	100K 5% 1/10W
R6066	1-216-839-11	METAL CHIP	33K 5% 1/10W
R6067	1-208-920-81	METAL CHIP	24K 0.5% 1/16W

Ref. No.	Part No.	Description	Remark
R6072	1-208-927-11	METAL CHIP	47K 0.5% 1/16W
R6076	1-208-695-11	METAL CHIP	3.3K 0.5% 1/16W
R6084	1-218-965-11	METAL CHIP	10K 5% 1/16W
R6085	1-218-957-11	METAL CHIP	2.2K 5% 1/16W
R6089	1-216-789-11	METAL CHIP	2.2 5% 1/10W
R6090	1-216-789-11	METAL CHIP	2.2 5% 1/10W
R6091	1-216-295-91	SHORT CHIP	0
R6092	1-216-295-91	SHORT CHIP	0
R6093	1-216-295-91	SHORT CHIP	0
R6094	1-216-295-91	SHORT CHIP	0
R6095	1-216-295-91	SHORT CHIP	0
R6096	1-216-295-91	SHORT CHIP	0
R6097	1-216-295-91	SHORT CHIP	0
R6098	1-216-295-91	SHORT CHIP	0
R6099	1-216-845-11	METAL CHIP	100K 5% 1/10W
R6100	1-216-839-11	METAL CHIP	33K 5% 1/10W
R6101	1-218-967-11	METAL CHIP	15K 5% 1/16W
R6102	1-208-695-11	METAL CHIP	3.3K 0.5% 1/16W
R6103	1-208-927-11	METAL CHIP	47K 0.5% 1/16W
R6106	1-216-793-11	METAL CHIP	4.7 5% 1/10W
R6107	1-216-793-11	METAL CHIP	4.7 5% 1/10W
< COMPOSITION CIRCUIT BLOCK >			
RB6001	1-234-381-11	RES, NETWORK 100K (1005X4)	
RB6002	1-234-372-11	RES, NETWORK 100 (1005X4)	
RB6003	1-234-372-11	RES, NETWORK 100 (1005X4)	

	A-2060-206-A	AUDIO IO BOARD, COMPLETE	*****
< CAPACITOR >			
C1300	1-118-417-11	CERAMIC CHIP	0.1uF 10% 16V
C1301	1-164-866-11	CERAMIC CHIP	47PF 5% 50V
C1302	1-164-866-11	CERAMIC CHIP	47PF 5% 50V
C1308	1-116-707-11	CERAMIC CHIP	47uF 20% 10V
C1309	1-118-417-11	CERAMIC CHIP	0.1uF 10% 16V
* C3001	1-116-719-11	CERAMIC CHIP	10uF 10% 6.3V
* C3002	1-116-719-11	CERAMIC CHIP	10uF 10% 6.3V
< CONNECTOR >			
CN1300	1-820-112-51	CONNECTOR, FFC/FPC 9P	
< DIODE >			
D1300	6-500-400-01	DIODE BAV99-215	
< IC >			
IC1301	6-600-827-01	IC JSR1124 (TV DIGITAL IN)	
< JACK >			
J1301	1-566-822-61	JACK (ANALOG IN)	
< RESISTOR >			
R1302	1-218-967-11	METAL CHIP	15K 5% 1/16W
R1303	1-218-967-11	METAL CHIP	15K 5% 1/16W
R1307	1-218-941-81	METAL CHIP	100 5% 1/16W
R1309	1-218-968-11	METAL CHIP	18K 5% 1/16W
R1310	1-218-968-11	METAL CHIP	18K 5% 1/16W
R1311	1-218-957-11	METAL CHIP	2.2K 5% 1/16W

Note: When the IC6001 on the AMP board is replaced, refer to "NOTE OF REPLACING THE IC6001 ON THE AMP BOARD AND THE COMPLETE AMP BOARD" on page 5.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R1312	1-218-957-11	METAL CHIP 2.2K 5% 1/16W		☐	A-2065-555-A	MB-1407 BOARD, COMPLETE (for SERVICE)	(TW)
*****				☐	A-2072-029-A	MB-1407 BOARD, COMPLETE (for SERVICE)	(LA9)
		IR TXL BOARD		*****			
		< CONNECTOR >		< CAPACITOR >			
* CN1100	1-580-055-21	PIN, CONNECTOR (SMD) 2P		C101	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
		< DIODE >		C102	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
D1100	6-503-658-01	DI SIM-013ST		* C103	1-116-738-11	CERAMIC CHIP 1uF 10% 6.3V	
D1101	6-503-658-01	DI SIM-013ST		* C104	1-116-719-11	CERAMIC CHIP 10uF 10% 6.3V	
*****				C105	1-118-403-11	CERAMIC CHIP 0.001uF 10% 50V	(AEP, UK, RU, AUS)
		IR TXR BOARD		C106	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
		< CONNECTOR >		C115	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
* CN1200	1-580-055-21	PIN, CONNECTOR (SMD) 2P		C118	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
		< DIODE >		C119	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
D1200	6-503-658-01	DI SIM-013ST		C120	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
D1201	6-503-658-01	DI SIM-013ST		C121	1-118-391-11	CERAMIC CHIP 0.01uF 10% 50V	
*****				C122	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
		KEY BOARD		* C137	1-116-719-11	CERAMIC CHIP 10uF 10% 6.3V	
		< CAPACITOR >		C138	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
C1700	1-118-417-11	CERAMIC CHIP 0.1uF 10% 16V		C139	1-118-391-11	CERAMIC CHIP 0.01uF 10% 50V	
C1701	1-118-417-11	CERAMIC CHIP 0.1uF 10% 16V		C140	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
C1703	1-118-417-11	CERAMIC CHIP 0.1uF 10% 16V		* C156	1-116-719-11	CERAMIC CHIP 10uF 10% 6.3V	
		< CONNECTOR >		C161	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
CN1701	1-580-057-11	PIN, CONNECTOR (SMD) 4P		C162	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
		< RESISTOR >		C163	1-118-403-11	CERAMIC CHIP 0.001uF 10% 50V	(AEP, UK, RU, AUS)
R1700	1-218-957-11	METAL CHIP 2.2K 5% 1/16W		* C173	1-116-714-11	CERAMIC CHIP 22uF 20% 6.3V	
R1701	1-218-953-11	METAL CHIP 1K 5% 1/16W		C175	1-164-844-11	CERAMIC CHIP 4PF 0.25PF 50V	
R1702	1-218-953-11	METAL CHIP 1K 5% 1/16W		C176	1-164-874-11	CERAMIC CHIP 100PF 5% 50V	
R1703	1-218-957-11	METAL CHIP 2.2K 5% 1/16W		C177	1-164-844-11	CERAMIC CHIP 4PF 0.25PF 50V	
R1704	1-218-953-11	METAL CHIP 1K 5% 1/16W		C178	1-164-874-11	CERAMIC CHIP 100PF 5% 50V	
		< SWITCH >		C179	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
S1700	1-798-284-11	TACTILE SWITCH (-VOL)		C180	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
S1701	1-798-284-11	TACTILE SWITCH (+VOL)		C181	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
S1702	1-798-284-11	TACTILE SWITCH (Ⓢ PAIRING)		C182	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
S1703	1-798-284-11	TACTILE SWITCH (INPUT)		C183	1-118-403-11	CERAMIC CHIP 0.001uF 10% 50V	(AEP, UK, RU, AUS)
S1704	1-798-284-11	TACTILE SWITCH (I/C)		C184	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	(AEP, UK, RU, AUS)
*****				C185	1-118-403-11	CERAMIC CHIP 0.001uF 10% 50V	(AEP, UK, RU, AUS)
☐	A-2065-400-A	MB-1407 BOARD, COMPLETE (for SERVICE)	(US, CND)	C186	1-118-403-11	CERAMIC CHIP 0.001uF 10% 50V	(AEP, UK, RU, AUS)
☐	A-2065-494-A	MB-1407 BOARD, COMPLETE (for SERVICE)	(AEP)	C187	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	(AEP, UK, RU, AUS)
☐	A-2065-507-A	MB-1407 BOARD, COMPLETE (for SERVICE) (UK)		C188	1-118-403-11	CERAMIC CHIP 0.001uF 10% 50V	(AEP, UK, RU, AUS)
☐	A-2065-512-A	MB-1407 BOARD, COMPLETE (for SERVICE) (RU)		C202	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
☐	A-2065-519-A	MB-1407 BOARD, COMPLETE (for SERVICE) (E3)		C203	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V	
☐	A-2065-525-A	MB-1407 BOARD, COMPLETE (for SERVICE) (EA)		C204	1-118-403-11	CERAMIC CHIP 0.001uF 10% 50V	(AEP, UK, RU, AUS)
☐	A-2065-530-A	MB-1407 BOARD, COMPLETE (for SERVICE)	(AUS)	C305	1-116-736-11	CERAMIC CHIP 1uF 10% 10V	
☐	A-2065-540-A	MB-1407 BOARD, COMPLETE (for SERVICE) (SP)		C306	1-116-734-11	CERAMIC CHIP 1uF 20% 16V	
				C307	1-116-736-11	CERAMIC CHIP 1uF 10% 10V	
				C308	1-116-736-11	CERAMIC CHIP 1uF 10% 10V	
				C309	1-116-736-11	CERAMIC CHIP 1uF 10% 10V	
				C310	1-116-736-11	CERAMIC CHIP 1uF 10% 10V	
				* C312	1-116-719-11	CERAMIC CHIP 10uF 10% 6.3V	

HT-NT3

Ver. 1.1

MB-1407

Ref. No.	Part No.	Description	Remark
C313	1-116-713-11	CERAMIC CHIP 22uF	20% 10V
* C314	1-116-714-11	CERAMIC CHIP 22uF	20% 6.3V
* C315	1-116-714-11	CERAMIC CHIP 22uF	20% 6.3V
C316	1-116-713-11	CERAMIC CHIP 22uF	20% 10V
* C317	1-116-714-11	CERAMIC CHIP 22uF	20% 6.3V
* C318	1-116-714-11	CERAMIC CHIP 22uF	20% 6.3V
C325	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C326	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C327	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C328	1-116-716-11	CERAMIC CHIP 10uF	10% 16V
C329	1-116-716-11	CERAMIC CHIP 10uF	10% 16V
C330	1-116-716-11	CERAMIC CHIP 10uF	10% 16V
* C331	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
C332	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C333	1-116-736-11	CERAMIC CHIP 1uF	10% 10V
C334	1-116-734-11	CERAMIC CHIP 1uF	20% 16V
C335	1-116-734-11	CERAMIC CHIP 1uF	20% 16V
* C336	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
C337	1-116-734-11	CERAMIC CHIP 1uF	20% 16V
C338	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C339	1-116-716-11	CERAMIC CHIP 10uF	10% 16V
C340	1-116-716-11	CERAMIC CHIP 10uF	10% 16V
C341	1-116-716-11	CERAMIC CHIP 10uF	10% 16V
C342	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C344	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C347	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
* C351	1-116-714-11	CERAMIC CHIP 22uF	20% 6.3V
* C352	1-116-714-11	CERAMIC CHIP 22uF	20% 6.3V
C353	1-116-713-11	CERAMIC CHIP 22uF	20% 10V
* C354	1-116-714-11	CERAMIC CHIP 22uF	20% 6.3V
* C355	1-116-714-11	CERAMIC CHIP 22uF	20% 6.3V
C356	1-116-713-11	CERAMIC CHIP 22uF	20% 10V
C362	1-116-709-11	CERAMIC CHIP 22uF	10% 25V
C402	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C404	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C405	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C406	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C407	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C408	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C409	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C410	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V (AEP, UK, RU, AUS)
C411	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C412	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C413	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
* C414	1-116-719-11	CERAMIC CHIP 10uF	10% 6.3V
C415	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C416	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V (AEP, UK, RU, AUS)
C417	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C418	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C419	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C420	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
* C421	1-116-719-11	CERAMIC CHIP 10uF	10% 6.3V
C422	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C423	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C424	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C425	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C426	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C427	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C428	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V

Ref. No.	Part No.	Description	Remark
C429	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V (AEP, UK, RU, AUS)
C430	1-164-852-11	CERAMIC CHIP 12PF	5% 50V (EXCEPT AEP, UK, RU, AUS)
C431	1-118-391-11	CERAMIC CHIP 0.01uF	10% 50V (AEP, UK, RU, AUS)
C431	1-164-852-11	CERAMIC CHIP 12PF	5% 50V (EXCEPT AEP, UK, RU, AUS)
C433	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C434	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C435	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C436	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V (AEP, UK, RU, AUS)
C437	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V (AEP, UK, RU, AUS)
C439	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V (AEP, UK, RU, AUS)
* C501	1-116-738-11	CERAMIC CHIP 1uF	10% 6.3V
* C502	1-116-738-11	CERAMIC CHIP 1uF	10% 6.3V
* C503	1-116-719-11	CERAMIC CHIP 10uF	10% 6.3V
* C504	1-116-719-11	CERAMIC CHIP 10uF	10% 6.3V
C505	1-118-391-11	CERAMIC CHIP 0.01uF	10% 50V
C506	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
* C507	1-116-714-11	CERAMIC CHIP 22uF	20% 6.3V
C509	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V
* C510	1-116-714-11	CERAMIC CHIP 22uF	20% 6.3V
* C511	1-116-719-11	CERAMIC CHIP 10uF	10% 6.3V
* C512	1-116-719-11	CERAMIC CHIP 10uF	10% 6.3V
C519	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V (AEP, UK, RU, AUS)
* C520	1-116-738-11	CERAMIC CHIP 1uF	10% 6.3V
C521	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C522	1-118-391-11	CERAMIC CHIP 0.01uF	10% 50V
C525	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C526	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C527	1-114-472-91	CERAMIC CHIP 0.001uF	10% 2KV
C528	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C529	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C530	1-116-736-11	CERAMIC CHIP 1uF	10% 10V
C531	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C532	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C533	1-116-736-11	CERAMIC CHIP 1uF	10% 10V
C534	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C535	1-118-391-11	CERAMIC CHIP 0.01uF	10% 50V
C536	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C537	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C538	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V (AEP, UK, RU, AUS)
C539	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V (AEP, UK, RU, AUS)
C601	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C602	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V (AEP, UK, RU, AUS)
C603	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C604	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V (AEP, UK, RU, AUS)
C605	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V (AEP, UK, RU, AUS)
C606	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C607	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V (AEP, UK, RU, AUS)
C608	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C617	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V (AEP, UK, RU, AUS)	C3515	1-116-724-11	CERAMIC CHIP	4.7uF	20%	6.3V
C618	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C3517	1-116-724-11	CERAMIC CHIP	4.7uF	20%	6.3V
C619	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	* C3518	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C702	1-116-737-11	CERAMIC CHIP	1uF	20%	10V	* C3519	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C703	1-116-737-11	CERAMIC CHIP	1uF	20%	10V	* C3520	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C706	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V	* C3523	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C707	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V	C3525	1-116-724-11	CERAMIC CHIP	4.7uF	20%	6.3V
* C708	1-116-719-11	CERAMIC CHIP	10uF	10%	6.3V	* C3526	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
* C709	1-116-719-11	CERAMIC CHIP	10uF	10%	6.3V	C3527	1-116-724-11	CERAMIC CHIP	4.7uF	20%	6.3V
C710	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V	* C3528	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
* C711	1-116-719-11	CERAMIC CHIP	10uF	10%	6.3V	* C3529	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C722	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C3532	1-116-724-11	CERAMIC CHIP	4.7uF	20%	6.3V
C723	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V	* C3533	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
C745	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V	C3534	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
C746	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V	* C3536	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C747	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	* C3538	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
C751	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	* C3540	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C756	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	* C3541	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
C757	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V (AEP, UK, RU, AUS)	* C3542	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C758	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V	* C3543	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
* C759	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V	* C3544	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
* C760	1-116-719-11	CERAMIC CHIP	10uF	10%	6.3V	* C3545	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
C761	1-164-858-11	CERAMIC CHIP	22PF	5%	50V	* C3546	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C762	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V	* C3548	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C2001	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C3549	1-164-847-11	CERAMIC CHIP	7PF	0.5PF	50V
C2002	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	* C3550	1-164-847-11	CERAMIC CHIP	7PF	0.5PF	50V
C3002	1-116-737-11	CERAMIC CHIP	1uF	20%	10V	* C3551	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
C3003	1-135-825-21	ELECT CHIP	0.0047uF	2%	16V	* C3552	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C3004	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	* C3553	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
* C3006	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V	* C3554	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
* C3007	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V	* C3555	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C3008	1-116-724-11	CERAMIC CHIP	4.7uF	20%	6.3V	* C3557	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C3009	1-116-724-11	CERAMIC CHIP	4.7uF	20%	6.3V	* C3558	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
* C3010	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V	* C3559	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
* C3011	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V	* C3560	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
* C3012	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V	* C3562	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
* C3014	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V	* C3563	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
C3015	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	* C3564	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
C3018	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	* C3565	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
* C3019	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V	C3566	1-117-681-11	ELECT CHIP	100uF	20%	16V
C3020	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C3595	1-116-717-11	CERAMIC CHIP	10uF	20%	10V
C3021	1-116-724-11	CERAMIC CHIP	4.7uF	20%	6.3V	C3596	1-116-717-11	CERAMIC CHIP	10uF	20%	10V
C3022	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V	C3649	1-116-724-11	CERAMIC CHIP	4.7uF	20%	6.3V
* C3023	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V	C5000	1-116-717-11	CERAMIC CHIP	10uF	20%	10V
C3024	1-116-724-11	CERAMIC CHIP	4.7uF	20%	6.3V	* C5002	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
* C3025	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V	* C5005	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C3026	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	* C5006	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C3027	1-116-724-11	CERAMIC CHIP	4.7uF	20%	6.3V	* C5007	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
C3028	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V	* C5008	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
* C3029	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V	* C5009	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
C3031	1-116-743-11	CERAMIC CHIP	0.22uF	10%	16V	C5016	1-116-724-11	CERAMIC CHIP	4.7uF	20%	6.3V
C3032	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V	* C5017	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C3033	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V	* C5018	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C3034	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V	C5019	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
C3037	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	* C5020	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C3038	1-164-868-11	CERAMIC CHIP	56PF	5%	50V	* C5021	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C3039	1-164-868-11	CERAMIC CHIP	56PF	5%	50V	* C5022	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C3040	1-116-736-11	CERAMIC CHIP	1uF	10%	10V	* C5023	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
						* C5032	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
						* C5036	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V

HT-NT3

Ver. 1.1

MB-1407

Ref. No.	Part No.	Description	Remark
C5038	1-116-729-11	CERAMIC CHIP 2.2uF	20% 10V
* C5039	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5040	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5043	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5050	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5052	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5054	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5057	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5060	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5061	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
* C5064	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5070	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
C5072	1-100-354-21	ELECT CHIP 220uF	20% 6.3V
* C5074	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
C5076	1-116-724-11	CERAMIC CHIP 4.7uF	20% 6.3V
* C5077	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5078	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5079	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5084	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
C5089	1-100-354-21	ELECT CHIP 220uF	20% 6.3V
* C5091	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5092	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
C5104	1-116-717-11	CERAMIC CHIP 10uF	20% 10V
* C5106	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
* C5108	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5109	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5110	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
* C5111	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
* C5112	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
C5118	1-116-724-11	CERAMIC CHIP 4.7uF	20% 6.3V
* C5119	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5120	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5121	1-116-737-11	CERAMIC CHIP 1uF	20% 10V
* C5122	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5123	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5124	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5125	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5134	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
C5138	1-116-729-11	CERAMIC CHIP 2.2uF	20% 10V
* C5139	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5140	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5142	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5144	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5150	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5152	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5154	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5158	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5160	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5161	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
* C5164	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5170	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
* C5172	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5174	1-116-724-11	CERAMIC CHIP 4.7uF	20% 6.3V
* C5175	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5176	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5177	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
* C5182	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
* C5184	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
C5190	1-118-040-11	CERAMIC CHIP 2.2uF	10% 16V
C5192	1-118-040-11	CERAMIC CHIP 2.2uF	10% 16V

Ref. No.	Part No.	Description	Remark
C5222	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C5223	1-116-737-11	CERAMIC CHIP 1uF	20% 10V
C5224	1-116-737-11	CERAMIC CHIP 1uF	20% 10V
C5226	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
< CONNECTOR >			
CN301	1-764-250-21	PIN, CONNECTOR (PC BOARD) 4P	
CN401	1-580-789-21	PIN, CONNECTOR (SMD) 6P	
CN501	1-573-768-21	PIN, CONNECTOR (1.5MM) (SMD) 5P	
* CN502	1-819-333-11	HEADER ASSEMBLY FOR PWB 5P	
CN703	1-815-763-32	CONNECTOR, FFC/FPC 24P	
CN705	1-820-112-51	CONNECTOR, FFC/FPC 9P	
* CN706	1-793-152-21	CONNECTOR 11P	
CN3002	1-784-859-51	CONNECTOR, FFC (LIF (NON-ZIF)) 7P	
CN3003	1-817-068-21	CONNECTOR 9P	
CN3004	1-815-762-71	CONNECTOR, FFC/FPC 14P	
CN3005	1-785-125-21	CONNECTOR 6P	
CN3502	1-821-398-41	HDMI CONNECTOR (HDMI IN 2)	
* CN3503	1-821-916-12	HDMI CONNECTOR (HDMI IN 3)	
CN5001	1-821-398-41	HDMI CONNECTOR (HDMI IN 1 (HDCP 2.2))	
CN5012	1-821-398-41	HDMI CONNECTOR (HDMI OUT (ARC HDCP 2.2))	
< DIODE >			
D704	6-502-967-01	DI DZ2J06200L	
D3001	6-502-961-01	DI DA2J10100L	
D3002	6-503-761-01	DI RB751S40, 115	
D5001	6-503-735-01	DI BZT52H-C4V3	
< EARTH TERMINAL >			
ET301	1-780-945-11	TERMINAL, CONTACT	
ET302	1-780-945-11	TERMINAL, CONTACT	
ET303	1-780-945-11	TERMINAL, CONTACT	
ET304	1-780-945-11	TERMINAL, CONTACT	
ET305	1-780-945-11	TERMINAL, CONTACT	
< FERRITE BEAD >			
FB501	1-481-349-21	EMI FERRITE (SMD) (1608)	
FB702	1-400-794-21	EMI FERRITE (SMD) (1608)	
FB705	1-400-851-11	EMI, FERRITE (SMD) (1005)	
FB707	1-218-990-81	SHORT CHIP 0 (AEP, UK, RU, AUS)	
FB707	1-400-462-21	FERRITE, EMI (SMD) (1005) (EXCEPT AEP, UK, RU, AUS)	
FB708	1-400-851-11	EMI, FERRITE (SMD) (1005)	
FB709	1-469-122-21	FERRITE, EMI (SMD) (1608)	
FB710	1-400-462-21	FERRITE, EMI (SMD) (1005)	
FB711	1-400-851-11	EMI, FERRITE (SMD) (1005)	
FB712	1-400-851-11	EMI, FERRITE (SMD) (1005)	
FB3002	1-481-348-21	EMI FERRITE (SMD) (1608)	
FB3501	1-481-348-21	EMI FERRITE (SMD) (1608)	
FB3504	1-216-864-11	SHORT CHIP 0	
FB3505	1-216-864-11	SHORT CHIP 0	
FB3508	1-469-525-91	INDUCTOR 10uH	
FB3511	1-400-180-21	INDUCTOR, EMI FERRITE (1608)	
FB3512	1-400-180-21	INDUCTOR, EMI FERRITE (1608)	
FB3520	1-400-180-21	INDUCTOR, EMI FERRITE (1608)	
FB3521	1-400-180-21	INDUCTOR, EMI FERRITE (1608)	
FB3522	1-400-180-21	INDUCTOR, EMI FERRITE (1608)	
FB3523	1-400-180-21	INDUCTOR, EMI FERRITE (1608)	
FB5000	1-481-348-21	EMI FERRITE (SMD) (1608)	
FB5002	1-400-580-21	FERRITE, EMI (SMD)	
FB5004	1-481-348-21	EMI FERRITE (SMD) (1608)	
FB5006	1-481-348-21	EMI FERRITE (SMD) (1608)	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
FB5008	1-400-580-21	FERRITE, EMI (SMD)		Q314	6-553-470-01	TR	QM2401C1
FB5010	1-481-348-21	EMI FERRITE (SMD) (1608)		Q602	6-550-901-01	TR	RN1302 (TE85L.F)
		< IC >		Q3002	6-552-936-01	TR	LTC014EUBFS8TL
IC101	(Not supplied)	IC CXD90028GB-B		Q3003	6-552-936-01	TR	LTC014EUBFS8TL
@ IC102	(Not supplied)	IC K4B2G1646Q-BCMA		Q3004	6-552-936-01	TR	LTC014EUBFS8TL
@ IC103	(Not supplied)	IC K4B2G1646Q-BCMA		Q3005	6-552-892-01	TR	LSCR523UBFS8TL
IC301	(Not supplied)	IC TPS542941PWPR		Q3007	6-552-941-01	TR	LTC023JUBFS8TL
IC302	(Not supplied)	IC TPS542941PWPR		Q3008	6-552-941-01	TR	LTC023JUBFS8TL
IC303	(Not supplied)	IC TPS542941PWPR		Q3009	6-552-936-01	TR	LTC014EUBFS8TL
IC410	(Not supplied)	IC MFI337S3959		Q3010	6-553-470-01	TR	QM2401C1
IC502	6-720-030-01	IC TPS2065CDBVR				< RESISTOR >	
IC503	6-720-030-01	IC TPS2065CDBVR		R101	1-208-683-11	METAL CHIP	1K 0.5% 1/16W
IC701	6-719-070-01	IC MM3411A50URE		R102	1-208-683-11	METAL CHIP	1K 0.5% 1/16W
IC703	6-710-554-01	IC PCM1808PWR		R104	1-218-941-81	METAL CHIP	100 5% 1/16W
IC704	8-759-831-52	IC TC7WH125FK		* R105	1-250-480-11	METAL CHIP	240 1% 1/16W
IC2001	6-721-743-01	IC TC58NVG2S0HTAIO		R106	1-218-941-81	METAL CHIP	100 5% 1/16W
IC3002	6-709-888-01	IC TC7WHU04FK		* R107	1-250-480-11	METAL CHIP	240 1% 1/16W
IC3003	6-706-483-01	IC TC7SH02FU		R301	1-218-971-81	METAL CHIP	33K 5% 1/16W
IC3004	(Not supplied)	IC MB9BF128SPMC-GE1		R302	1-218-971-81	METAL CHIP	33K 5% 1/16W
IC3005	6-713-333-01	IC PST8429UL		R303	1-218-971-81	METAL CHIP	33K 5% 1/16W
IC3506	6-718-773-01	IC SII9575CTUC		R304	1-218-971-81	METAL CHIP	33K 5% 1/16W
IC5000	6-719-062-01	IC W25X20CLSNG		R305	1-218-971-81	METAL CHIP	33K 5% 1/16W
IC5001	6-721-481-01	IC SII9679CNUC		R306	1-218-971-81	METAL CHIP	33K 5% 1/16W
IC5009	6-719-062-01	IC W25X20CLSNG		R307	1-218-971-81	METAL CHIP	33K 5% 1/16W
IC5010	(Not supplied)	IC SII9678CNUC		R308	1-218-971-81	METAL CHIP	33K 5% 1/16W
IC5014	6-718-999-01	IC MM1839A50NRE		R309	1-218-971-81	METAL CHIP	33K 5% 1/16W
		< JACK >		R310	1-218-971-81	METAL CHIP	33K 5% 1/16W
* J503	1-843-965-11	ETHERNET CONNECTOR (LAN (100))		R311	1-218-971-81	METAL CHIP	33K 5% 1/16W
		< COIL >		R312	1-218-971-81	METAL CHIP	33K 5% 1/16W
L302	1-460-358-11	INDUCTOR 2.2uH		R313	1-218-965-11	METAL CHIP	10K 5% 1/16W
L303	1-400-789-21	INDUCTOR 2.2uH		R314	1-218-965-11	METAL CHIP	10K 5% 1/16W
L304	1-460-358-11	INDUCTOR 2.2uH		R315	1-218-965-11	METAL CHIP	10K 5% 1/16W
L305	1-400-789-21	INDUCTOR 2.2uH		R316	1-218-965-11	METAL CHIP	10K 5% 1/16W
L306	1-460-358-11	INDUCTOR 2.2uH		R317	1-218-965-11	METAL CHIP	10K 5% 1/16W
L307	1-460-358-11	INDUCTOR 2.2uH		R318	1-218-965-11	METAL CHIP	10K 5% 1/16W
L308	1-460-358-11	INDUCTOR 2.2uH		R326	1-218-953-11	METAL CHIP	1K 5% 1/16W
* L309	1-460-599-11	INDUCTOR 4.7uH		R328	1-208-931-11	METAL CHIP	68K 0.5% 1/16W
L310	1-460-358-11	INDUCTOR 2.2uH		R329	1-208-905-11	METAL CHIP	5.6K 0.5% 1/16W
L501	1-457-965-11	COIL,COMMON MODE CHOKE(SMD1210)		R330	1-208-715-11	METAL CHIP	22K 0.5% 1/16W
L502	1-457-965-11	COIL,COMMON MODE CHOKE(SMD1210)		R331	1-208-883-81	METAL CHIP	680 0.5% 1/16W
L503	1-457-374-21	COMMOM MODE CHOKE COIL		R332	1-208-711-11	METAL CHIP	15K 0.5% 1/16W
L504	1-457-374-21	COMMOM MODE CHOKE COIL		R333	1-208-715-11	METAL CHIP	22K 0.5% 1/16W
		< TRANSISTOR >		R334	1-208-918-11	METAL CHIP	20K 0.5% 1/16W
Q301	6-552-936-01	TR LTC014EUBFS8TL		R335	1-208-687-11	METAL CHIP	1.5K 0.5% 1/16W
Q302	6-552-936-01	TR LTC014EUBFS8TL		R336	1-208-715-11	METAL CHIP	22K 0.5% 1/16W
Q303	6-552-936-01	TR LTC014EUBFS8TL		R340	1-218-971-81	METAL CHIP	33K 5% 1/16W
Q304	6-552-936-01	TR LTC014EUBFS8TL		R341	1-218-971-81	METAL CHIP	33K 5% 1/16W
Q305	6-552-936-01	TR LTC014EUBFS8TL		R342	1-218-965-11	METAL CHIP	10K 5% 1/16W
Q306	6-552-936-01	TR LTC014EUBFS8TL		R347	1-208-922-11	METAL CHIP	30K 0.5% 1/16W
Q307	6-553-470-01	TR QM2401C1		R348	1-208-927-11	METAL CHIP	47K 0.5% 1/16W
Q308	6-553-470-01	TR QM2401C1		R349	1-218-953-11	METAL CHIP	1K 5% 1/16W
Q309	6-553-470-01	TR QM2401C1		R351	1-208-871-81	METAL CHIP	220 0.5% 1/16W
Q310	6-553-470-01	TR QM2401C1		R352	1-208-703-11	METAL CHIP	6.8K 0.5% 1/16W
Q311	6-552-974-01	TR RZM001P02T2L		R353	1-208-715-11	METAL CHIP	22K 0.5% 1/16W
Q312	6-552-974-01	TR RZM001P02T2L		R354	1-208-931-11	METAL CHIP	68K 0.5% 1/16W
Q313	6-552-936-01	TR LTC014EUBFS8TL		R355	1-208-687-11	METAL CHIP	1.5K 0.5% 1/16W
				R356	1-208-709-11	METAL CHIP	12K 0.5% 1/16W
				R402	1-218-965-11	METAL CHIP	10K 5% 1/16W
				R408	1-218-965-11	METAL CHIP	10K 5% 1/16W

Note: IC101, IC102, IC103, IC301 IC302, IC303, IC410, IC3004 and IC5010 on the MB-1407 board cannot exchange with single. When these parts on the MB-1407 board are damaged, exchange the entire mounted board.

@ Replacement of IC102 and IC103 on the MB-1407 board used in this unit requires a special tool.

HT-NT3

Ver. 1.1

MB-1407

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R410	1-218-965-11	METAL CHIP	10K 5% 1/16W	R719	1-218-990-81	SHORT CHIP	0
R412	1-218-965-11	METAL CHIP	10K 5% 1/16W	R720	1-218-990-81	SHORT CHIP	0
R414	1-218-965-11	METAL CHIP	10K 5% 1/16W	R722	1-218-990-81	SHORT CHIP	0
R416	1-218-965-11	METAL CHIP	10K 5% 1/16W	R723	1-218-933-11	METAL CHIP	22 5% 1/16W
R418	1-218-941-81	METAL CHIP	100 5% 1/16W	R724	1-218-945-11	METAL CHIP	220 5% 1/16W
R419	1-218-941-81	METAL CHIP	100 5% 1/16W	R725	1-218-937-11	METAL CHIP	47 5% 1/16W
R420	1-218-941-81	METAL CHIP	100 5% 1/16W	R726	1-218-937-11	METAL CHIP	47 5% 1/16W
R421	1-218-941-81	METAL CHIP	100 5% 1/16W	R730	1-218-933-11	METAL CHIP	22 5% 1/16W
R423	1-218-941-81	METAL CHIP	100 5% 1/16W	R735	1-218-933-11	METAL CHIP	22 5% 1/16W
R427	1-218-965-11	METAL CHIP	10K 5% 1/16W	R737	1-218-941-81	METAL CHIP	100 5% 1/16W
R428	1-218-965-11	METAL CHIP	10K 5% 1/16W	R741	1-208-859-81	METAL CHIP	68 0.5% 1/16W
R429	1-218-965-11	METAL CHIP	10K 5% 1/16W	R742	1-208-859-81	METAL CHIP	68 0.5% 1/16W
R430	1-218-941-81	METAL CHIP	100 5% 1/16W	R742	1-218-941-81	METAL CHIP	100 5% 1/16W
R431	1-218-941-81	METAL CHIP	100 5% 1/16W				(EXCEPT AEP, UK, RU, AUS)
R432	1-218-953-11	METAL CHIP	1K 5% 1/16W	R746	1-218-933-11	METAL CHIP	22 5% 1/16W
R443	1-216-864-11	SHORT CHIP	0	R752	1-218-933-11	METAL CHIP	22 5% 1/16W
R449	1-216-295-91	SHORT CHIP	0	R753	1-218-965-11	METAL CHIP	10K 5% 1/16W
R452	1-216-864-11	SHORT CHIP	0	R756	1-218-959-11	METAL CHIP	3.3K 5% 1/16W
R453	1-208-671-11	METAL CHIP	330 0.5% 1/16W	R757	1-218-959-11	METAL CHIP	3.3K 5% 1/16W
			(AEP, UK, RU, AUS)	R758	1-218-933-11	METAL CHIP	22 5% 1/16W
R453	1-218-957-11	METAL CHIP	2.2K 5% 1/16W	R759	1-218-941-81	METAL CHIP	100 5% 1/16W
			(EXCEPT AEP, UK, RU, AUS)	R760	1-218-933-11	METAL CHIP	22 5% 1/16W
R454	1-220-208-81	METAL CHIP	130K 5% 1/16W	R761	1-218-941-81	METAL CHIP	100 5% 1/16W
			(EXCEPT AEP, UK, RU, AUS)	R789	1-218-943-11	METAL CHIP	150 5% 1/16W
R462	1-218-957-11	METAL CHIP	2.2K 5% 1/16W	R790	1-218-933-11	METAL CHIP	22 5% 1/16W
R463	1-218-957-11	METAL CHIP	2.2K 5% 1/16W	R792	1-216-864-11	SHORT CHIP	0
R465	1-218-957-11	METAL CHIP	2.2K 5% 1/16W	R793	1-218-941-81	METAL CHIP	100 5% 1/16W
R466	1-216-864-11	SHORT CHIP	0	R794	1-218-941-81	METAL CHIP	100 5% 1/16W
R467	1-218-965-11	METAL CHIP	10K 5% 1/16W	R795	1-218-942-11	METAL CHIP	120 5% 1/16W
R468	1-218-965-11	METAL CHIP	10K 5% 1/16W	R798	1-216-864-11	SHORT CHIP	0
R502	1-218-965-11	METAL CHIP	10K 5% 1/16W	* R2008	1-250-507-11	METAL CHIP	3.3K 1% 1/16W
R504	1-218-864-11	METAL CHIP	5.1K 0.5% 1/10W	R2009	1-218-965-11	METAL CHIP	10K 5% 1/16W
R505	1-218-864-11	METAL CHIP	5.1K 0.5% 1/10W	R3001	1-218-941-81	METAL CHIP	100 5% 1/16W
R506	1-218-953-11	METAL CHIP	1K 5% 1/16W	R3002	1-250-648-11	METAL CHIP	22K 1% 1/10W
R509	1-218-965-11	METAL CHIP	10K 5% 1/16W	R3003	1-250-664-11	METAL CHIP	100K 1% 1/10W
R510	1-218-977-11	METAL CHIP	100K 5% 1/16W	R3004	1-250-628-11	METAL CHIP	3.3K 1% 1/10W
R517	1-218-953-11	METAL CHIP	1K 5% 1/16W	R3005	1-250-626-11	METAL CHIP	2.7K 1% 1/10W
R518	1-208-920-81	METAL CHIP	24K 0.5% 1/16W	R3006	1-218-953-11	METAL CHIP	1K 5% 1/16W
R525	1-218-864-11	METAL CHIP	5.1K 0.5% 1/10W	R3007	1-218-941-81	METAL CHIP	100 5% 1/16W
R526	1-218-961-11	METAL CHIP	4.7K 5% 1/16W	R3008	1-218-941-81	METAL CHIP	100 5% 1/16W
R527	1-218-965-11	METAL CHIP	10K 5% 1/16W	R3009	1-218-941-81	METAL CHIP	100 5% 1/16W
R528	1-216-864-11	SHORT CHIP	0	R3010	1-218-977-11	METAL CHIP	100K 5% 1/16W
R607	1-218-933-11	METAL CHIP	22 5% 1/16W	R3011	1-218-965-11	METAL CHIP	10K 5% 1/16W
R608	1-218-933-11	METAL CHIP	22 5% 1/16W	R3013	1-218-965-11	METAL CHIP	10K 5% 1/16W
R609	1-218-933-11	METAL CHIP	22 5% 1/16W	R3014	1-218-965-11	METAL CHIP	10K 5% 1/16W
R610	1-218-933-11	METAL CHIP	22 5% 1/16W	R3015	1-218-970-81	METAL CHIP	27K 5% 1/16W
R611	1-218-973-11	METAL CHIP	47K 5% 1/16W	R3016	1-218-965-11	METAL CHIP	10K 5% 1/16W
R612	1-218-956-11	METAL CHIP	1.8K 5% 1/16W	R3017	1-218-959-11	METAL CHIP	3.3K 5% 1/16W
R613	1-218-956-11	METAL CHIP	1.8K 5% 1/16W	R3018	1-218-941-81	METAL CHIP	100 5% 1/16W
R628	1-218-953-11	METAL CHIP	1K 5% 1/16W	R3019	1-218-941-81	METAL CHIP	100 5% 1/16W
R629	1-218-977-11	METAL CHIP	100K 5% 1/16W	R3020	1-218-941-81	METAL CHIP	100 5% 1/16W
R630	1-218-973-11	METAL CHIP	47K 5% 1/16W	R3021	1-218-965-11	METAL CHIP	10K 5% 1/16W
R631	1-218-953-11	METAL CHIP	1K 5% 1/16W	R3023	1-218-941-81	METAL CHIP	100 5% 1/16W
R634	1-218-961-11	METAL CHIP	4.7K 5% 1/16W	R3025	1-218-965-11	METAL CHIP	10K 5% 1/16W
R701	1-218-933-11	METAL CHIP	22 5% 1/16W	R3026	1-218-941-81	METAL CHIP	100 5% 1/16W
R703	1-218-933-11	METAL CHIP	22 5% 1/16W	R3027	1-218-941-81	METAL CHIP	100 5% 1/16W
R707	1-218-942-11	METAL CHIP	120 5% 1/16W	R3028	1-218-941-81	METAL CHIP	100 5% 1/16W
R708	1-218-942-11	METAL CHIP	120 5% 1/16W	R3029	1-218-973-11	METAL CHIP	47K 5% 1/16W
R717	1-218-990-81	SHORT CHIP	0	R3030	1-218-941-81	METAL CHIP	100 5% 1/16W
R718	1-218-990-81	SHORT CHIP	0	R3031	1-218-965-11	METAL CHIP	10K 5% 1/16W

Ref. No.	Part No.	Description	Quantity	Unit	Remark	Ref. No.	Part No.	Description	Quantity	Unit	Remark
R3034	1-216-864-11	SHORT CHIP	0			R3143	1-218-971-81	METAL CHIP	33K	5%	1/16W
R3035	1-218-965-11	METAL CHIP	10K	5%	1/16W	R3144	1-218-965-11	METAL CHIP	10K	5%	1/16W
R3036	1-218-941-81	METAL CHIP	100	5%	1/16W	R3145	1-216-864-11	SHORT CHIP	0		
R3037	1-218-955-11	METAL CHIP	1.5K	5%	1/16W	R3146	1-216-864-11	SHORT CHIP	0		
R3038	1-218-955-11	METAL CHIP	1.5K	5%	1/16W	R3504	1-218-990-81	SHORT CHIP	0		
R3039	1-218-937-11	METAL CHIP	47	5%	1/16W	R3505	1-218-990-81	SHORT CHIP	0		
R3040	1-218-937-11	METAL CHIP	47	5%	1/16W	R3510	1-218-933-11	METAL CHIP	22	5%	1/16W
R3043	1-218-941-81	METAL CHIP	100	5%	1/16W	R3515	1-218-933-11	METAL CHIP	22	5%	1/16W
R3044	1-218-965-11	METAL CHIP	10K	5%	1/16W	R3516	1-218-933-11	METAL CHIP	22	5%	1/16W
R3045	1-218-941-81	METAL CHIP	100	5%	1/16W	R3517	1-218-933-11	METAL CHIP	22	5%	1/16W
R3046	1-218-965-11	METAL CHIP	10K	5%	1/16W	R3518	1-218-933-11	METAL CHIP	22	5%	1/16W
R3047	1-218-965-11	METAL CHIP	10K	5%	1/16W	R3519	1-218-933-11	METAL CHIP	22	5%	1/16W
R3048	1-218-941-81	METAL CHIP	100	5%	1/16W	R3520	1-218-973-11	METAL CHIP	47K	5%	1/16W
R3050	1-218-965-11	METAL CHIP	10K	5%	1/16W	R3522	1-218-973-11	METAL CHIP	47K	5%	1/16W
R3051	1-218-941-81	METAL CHIP	100	5%	1/16W	R3573	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R3052	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R3580	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R3053	1-218-965-11	METAL CHIP	10K	5%	1/16W	R3582	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R3054	1-218-941-81	METAL CHIP	100	5%	1/16W	R3583	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R3055	1-218-941-81	METAL CHIP	100	5%	1/16W	R3584	1-218-965-11	METAL CHIP	10K	5%	1/16W
R3056	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R3585	1-218-965-11	METAL CHIP	10K	5%	1/16W
R3057	1-218-941-81	METAL CHIP	100	5%	1/16W	R3586	1-218-933-11	METAL CHIP	22	5%	1/16W
R3060	1-218-959-11	METAL CHIP	3.3K	5%	1/16W	R3587	1-218-933-11	METAL CHIP	22	5%	1/16W
R3061	1-218-941-81	METAL CHIP	100	5%	1/16W	R3588	1-218-929-11	METAL CHIP	10	5%	1/16W
R3063	1-218-965-11	METAL CHIP	10K	5%	1/16W	R3589	1-218-937-11	METAL CHIP	47	5%	1/16W
R3073	1-218-977-11	METAL CHIP	100K	5%	1/16W	R3590	1-218-937-11	METAL CHIP	47	5%	1/16W
R3074	1-218-959-11	METAL CHIP	3.3K	5%	1/16W	R3591	1-218-965-11	METAL CHIP	10K	5%	1/16W
R3076	1-218-977-11	METAL CHIP	100K	5%	1/16W	R3595	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R3077	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R3596	1-218-929-11	METAL CHIP	10	5%	1/16W
R3078	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R3597	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R3079	1-218-941-81	METAL CHIP	100	5%	1/16W	R3599	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R3080	1-218-941-81	METAL CHIP	100	5%	1/16W	R3600	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R3082	1-218-977-11	METAL CHIP	100K	5%	1/16W	R3601	1-218-929-11	METAL CHIP	10	5%	1/16W
R3083	1-218-959-11	METAL CHIP	3.3K	5%	1/16W	R3602	1-218-990-81	SHORT CHIP	0		
R3084	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R3624	1-220-208-81	METAL CHIP	130K	5%	1/16W
R3087	1-218-965-11	METAL CHIP	10K	5%	1/16W	R3625	1-218-951-11	METAL CHIP	680	5%	1/16W
R3088	1-218-953-11	METAL CHIP	1K	5%	1/16W	R3636	1-218-990-81	SHORT CHIP	0		
R3089	1-218-977-11	METAL CHIP	100K	5%	1/16W	R3644	1-216-864-11	SHORT CHIP	0		
R3091	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R3645	1-216-864-11	SHORT CHIP	0		
R3092	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R3646	1-216-864-11	SHORT CHIP	0		
R3093	1-218-953-11	METAL CHIP	1K	5%	1/16W	R3647	1-216-864-11	SHORT CHIP	0		
R3094	1-218-965-11	METAL CHIP	10K	5%	1/16W	R3685	1-218-973-11	METAL CHIP	47K	5%	1/16W
R3095	1-218-959-11	METAL CHIP	3.3K	5%	1/16W	R3757	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R3096	1-218-965-11	METAL CHIP	10K	5%	1/16W	R3758	1-218-929-11	METAL CHIP	10	5%	1/16W
R3097	1-218-977-11	METAL CHIP	100K	5%	1/16W	R3759	1-218-933-11	METAL CHIP	22	5%	1/16W
R3098	1-218-973-11	METAL CHIP	47K	5%	1/16W	R3760	1-218-933-11	METAL CHIP	22	5%	1/16W
R3099	1-218-965-11	METAL CHIP	10K	5%	1/16W	R3761	1-218-973-11	METAL CHIP	47K	5%	1/16W
R3105	1-218-990-81	SHORT CHIP	0			R3762	1-218-933-11	METAL CHIP	22	5%	1/16W
R3116	1-218-941-81	METAL CHIP	100	5%	1/16W	R3763	1-218-933-11	METAL CHIP	22	5%	1/16W
R3126	1-208-713-11	METAL CHIP	18K	0.5%	1/16W	R3764	1-218-990-81	SHORT CHIP	0		
R3128	1-208-698-11	METAL CHIP	4.3K	0.5%	1/16W	R3765	1-218-956-11	METAL CHIP	1.8K	5%	1/16W
R3129	1-218-965-11	METAL CHIP	10K	5%	1/16W	R3766	1-218-956-11	METAL CHIP	1.8K	5%	1/16W
R3134	1-216-803-11	METAL CHIP	33	5%	1/10W	R3767	1-218-956-11	METAL CHIP	1.8K	5%	1/16W
R3135	1-216-803-11	METAL CHIP	33	5%	1/10W	R3768	1-218-956-11	METAL CHIP	1.8K	5%	1/16W
R3136	1-218-941-81	METAL CHIP	100	5%	1/16W	R3769	1-218-990-81	SHORT CHIP	0		
R3137	1-218-941-81	METAL CHIP	100	5%	1/16W	R3770	1-218-990-81	SHORT CHIP	0		
R3138	1-218-941-81	METAL CHIP	100	5%	1/16W	R3771	1-218-933-11	METAL CHIP	22	5%	1/16W
R3139	1-218-941-81	METAL CHIP	100	5%	1/16W	R3772	1-218-933-11	METAL CHIP	22	5%	1/16W
R3140	1-218-941-81	METAL CHIP	100	5%	1/16W	R3773	1-218-973-11	METAL CHIP	47K	5%	1/16W
R3141	1-216-295-91	SHORT CHIP	0			R3774	1-218-933-11	METAL CHIP	22	5%	1/16W
R3142	1-218-971-81	METAL CHIP	33K	5%	1/16W	R3775	1-218-933-11	METAL CHIP	22	5%	1/16W

HT-NT3

Ver. 1.1

MB-1407

Ref. No.	Part No.	Description	Quantity	Unit	Remark	Ref. No.	Part No.	Description	Quantity	Unit	Remark
R5004	1-218-933-11	METAL CHIP	22	5%	1/16W	R5212	1-218-941-81	METAL CHIP	100	5%	1/16W
R5005	1-218-933-11	METAL CHIP	22	5%	1/16W	R5216	1-218-941-81	METAL CHIP	100	5%	1/16W
R5006	1-218-973-11	METAL CHIP	47K	5%	1/16W	R5222	1-218-990-81	SHORT CHIP	0		
R5007	1-218-990-81	SHORT CHIP	0			R5223	1-218-941-81	METAL CHIP	100	5%	1/16W
R5014	1-216-864-11	SHORT CHIP	0			R5226	1-218-965-11	METAL CHIP	10K	5%	1/16W
R5016	1-216-864-11	SHORT CHIP	0			R5228	1-218-941-81	METAL CHIP	100	5%	1/16W
R5019	1-216-797-11	METAL CHIP	10	5%	1/10W	R5231	1-218-941-81	METAL CHIP	100	5%	1/16W
R5021	1-216-864-11	SHORT CHIP	0			R5236	1-218-941-81	METAL CHIP	100	5%	1/16W
R5022	1-216-864-11	SHORT CHIP	0			R5239	1-218-941-81	METAL CHIP	100	5%	1/16W
R5025	1-218-965-11	METAL CHIP	10K	5%	1/16W	R5243	1-216-864-11	SHORT CHIP	0		
R5026	1-218-965-11	METAL CHIP	10K	5%	1/16W	R5246	1-216-864-11	SHORT CHIP	0		
R5027	1-218-941-81	METAL CHIP	100	5%	1/16W	R5259	1-216-864-11	SHORT CHIP	0		
R5028	1-218-961-11	METAL CHIP	4.7K	5%	1/16W	R5260	1-216-864-11	SHORT CHIP	0		
R5039	1-218-941-81	METAL CHIP	100	5%	1/16W	R5264	1-218-941-81	METAL CHIP	100	5%	1/16W
R5041	1-218-965-11	METAL CHIP	10K	5%	1/16W	R5267	1-218-965-11	METAL CHIP	10K	5%	1/16W
R5042	1-218-961-11	METAL CHIP	4.7K	5%	1/16W	R5273	1-218-956-11	METAL CHIP	1.8K	5%	1/16W
R5044	1-218-965-11	METAL CHIP	10K	5%	1/16W	R5277	1-218-933-11	METAL CHIP	22	5%	1/16W
R5045	1-218-953-11	METAL CHIP	1K	5%	1/16W	R5278	1-218-933-11	METAL CHIP	22	5%	1/16W
R5054	1-218-965-11	METAL CHIP	10K	5%	1/16W	R5279	1-218-956-11	METAL CHIP	1.8K	5%	1/16W
R5055	1-218-990-81	SHORT CHIP	0			R5289	1-218-990-81	SHORT CHIP	0		
R5062	1-218-941-81	METAL CHIP	100	5%	1/16W	R5296	1-218-937-11	METAL CHIP	47	5%	1/16W
R5066	1-218-941-81	METAL CHIP	100	5%	1/16W	R5297	1-218-937-11	METAL CHIP	47	5%	1/16W
R5074	1-218-990-81	SHORT CHIP	0			R5356	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R5075	1-218-941-81	METAL CHIP	100	5%	1/16W	R5357	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R5078	1-218-965-11	METAL CHIP	10K	5%	1/16W	R5377	1-208-859-81	METAL CHIP	68	0.5%	1/16W
R5080	1-218-941-81	METAL CHIP	100	5%	1/16W	R5379	1-208-859-81	METAL CHIP	68	0.5%	1/16W
R5082	1-218-965-11	METAL CHIP	10K	5%	1/16W	R5380	1-218-973-11	METAL CHIP	47K	5%	1/16W
R5083	1-218-941-81	METAL CHIP	100	5%	1/16W	R5381	1-218-973-11	METAL CHIP	47K	5%	1/16W
R5088	1-218-941-81	METAL CHIP	100	5%	1/16W	R5382	1-218-953-11	METAL CHIP	1K	5%	1/16W
R5091	1-218-941-81	METAL CHIP	100	5%	1/16W	R5383	1-218-945-11	METAL CHIP	220	5%	1/16W
R5096	1-216-864-11	SHORT CHIP	0					< COMPOSITION CIRCUIT BLOCK >			
R5098	1-216-864-11	SHORT CHIP	0			RB001	1-234-372-11	RES, NETWORK 100 (1005X4)			
R5103	1-216-864-11	SHORT CHIP	0			RB401	1-234-378-21	RES, NETWORK 10K (1005X4)			
R5107	1-216-864-11	SHORT CHIP	0			RB402	1-234-378-21	RES, NETWORK 10K (1005X4)			
R5124	1-218-973-11	METAL CHIP	47K	5%	1/16W	* RB501	1-234-723-21	RES, NETWORK 75 (1005X4)			
R5145	1-216-864-11	SHORT CHIP	0			RB703	1-234-372-11	RES, NETWORK 100 (1005X4)			
R5147	1-216-864-11	SHORT CHIP	0			RB3003	1-234-372-11	RES, NETWORK 100 (1005X4)			
R5150	1-218-965-11	METAL CHIP	10K	5%	1/16W	RB3004	1-234-372-11	RES, NETWORK 100 (1005X4)			
R5152	1-218-965-11	METAL CHIP	10K	5%	1/16W	* RB3510	1-460-611-11	COMMON MODE CHOKE COIL			
R5154	1-218-965-11	METAL CHIP	10K	5%	1/16W	* RB3511	1-460-611-11	COMMON MODE CHOKE COIL			
R5155	1-218-941-81	METAL CHIP	100	5%	1/16W	* RB3512	1-460-611-11	COMMON MODE CHOKE COIL			
R5157	1-218-965-11	METAL CHIP	10K	5%	1/16W	* RB3513	1-460-611-11	COMMON MODE CHOKE COIL			
R5160	1-218-941-81	METAL CHIP	100	5%	1/16W	RB3514	1-234-400-21	CONDUCTOR, NETWORK (1005X4)			
R5163	1-218-941-81	METAL CHIP	100	5%	1/16W	RB3515	1-234-400-21	CONDUCTOR, NETWORK (1005X4)			
R5164	1-218-990-81	SHORT CHIP	0			* RB5004	1-460-611-11	COMMON MODE CHOKE COIL			
R5166	1-218-965-11	METAL CHIP	10K	5%	1/16W	* RB5005	1-460-611-11	COMMON MODE CHOKE COIL			
R5168	1-218-965-11	METAL CHIP	10K	5%	1/16W	* RB5006	1-460-611-11	COMMON MODE CHOKE COIL			
R5176	1-216-864-11	SHORT CHIP	0			* RB5007	1-460-611-11	COMMON MODE CHOKE COIL			
R5178	1-216-864-11	SHORT CHIP	0					< TRANSFORMER >			
R5180	1-216-864-11	SHORT CHIP	0			* T501	1-697-376-11	PULSE TRANSFORMER			
R5182	1-216-864-11	SHORT CHIP	0			* T502	1-697-376-11	PULSE TRANSFORMER			
R5183	1-216-864-11	SHORT CHIP	0					< VIBRATOR >			
R5186	1-218-961-11	METAL CHIP	4.7K	5%	1/16W	X401	1-814-401-21	OSCILLATOR, CRYSTAL (27MHz)			
R5187	1-218-965-11	METAL CHIP	10K	5%	1/16W						(AEP, UK, RU, AUS)
R5189	1-218-965-11	METAL CHIP	10K	5%	1/16W	X401	1-814-754-11	QUARTZ CRYSTAL UNIT (27MHz)			
R5190	1-218-953-11	METAL CHIP	1K	5%	1/16W						(EXCEPT AEP, UK, RU, AUS)
R5195	1-218-941-81	METAL CHIP	100	5%	1/16W	X3001	1-781-646-21	VIBRATOR, CERAMIC (4MHz)			
R5199	1-218-961-11	METAL CHIP	4.7K	5%	1/16W						
R5203	1-218-990-81	SHORT CHIP	0								
R5207	1-218-990-81	SHORT CHIP	0								

Ref. No.	Part No.	Description	Remark
X3501	1-814-858-11	QUARTZ CRYSTAL UNIT (28.224MHz)	

		OLED CHUKEI BOARD	

		< CAPACITOR >	
* C1400	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
C1401	1-118-417-11	CERAMIC CHIP 0.1uF	10% 16V
C1404	1-164-874-11	CERAMIC CHIP 100PF	5% 50V
C1405	1-164-874-11	CERAMIC CHIP 100PF	5% 50V
C1407	1-118-417-11	CERAMIC CHIP 0.1uF	10% 16V
C1408	1-118-047-11	CERAMIC CHIP 10uF	10% 16V
* C1410	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
* C1411	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
C1412	1-118-417-11	CERAMIC CHIP 0.1uF	10% 16V
* C1413	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
* C1414	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
* C1415	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
		< CONNECTOR >	
CN1400	1-843-407-31	FPC CONNECTOR (ZIF) (11PIN)	
CN1401	1-816-645-61	CONNECTOR, FFC/FPC (LIF) 14P	
		< DIODE >	
D1401	6-503-196-01	DI CL-194S-HB8SP-SD-T	
		< IC >	
IC1400	6-600-681-01	IC RS-770N	
		< TRANSISTOR >	
Q1401	6-552-941-01	TR LTC023JUBFS8TL	
		< RESISTOR >	
R1400	1-216-805-11	METAL CHIP 47	5% 1/10W
R1401	1-216-805-11	METAL CHIP 47	5% 1/10W
R1402	1-218-990-81	SHORT CHIP 0	
R1403	1-218-990-81	SHORT CHIP 0	
R1404	1-218-990-81	SHORT CHIP 0	
R1405	1-218-990-81	SHORT CHIP 0	
R1406	1-218-990-81	SHORT CHIP 0	
R1407	1-208-721-11	METAL CHIP 39K	0.5% 1/16W
R1409	1-218-933-11	METAL CHIP 22	5% 1/16W

A-2060-208-A		WS CHUKEI BOARD, COMPLETE	

		< CONNECTOR >	
* C1501	1-116-735-11	CERAMIC CHIP 1uF	10% 16V
* C1503	1-116-735-11	CERAMIC CHIP 1uF	10% 16V
C1504	1-118-418-11	CERAMIC CHIP 22uF	20% 6.3V
C1505	1-118-418-11	CERAMIC CHIP 22uF	20% 6.3V
C1506	1-165-492-21	ELECT CHIP 100uF	20% 10V
C1551	1-164-230-11	CERAMIC CHIP 220PF	5% 50V
C1552	1-114-385-11	ELECT CHIP 470uF	20% 6.3V
C1553	1-164-230-11	CERAMIC CHIP 220PF	5% 50V
* C1560	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V
C1562	1-164-874-11	CERAMIC CHIP 100PF	5% 50V

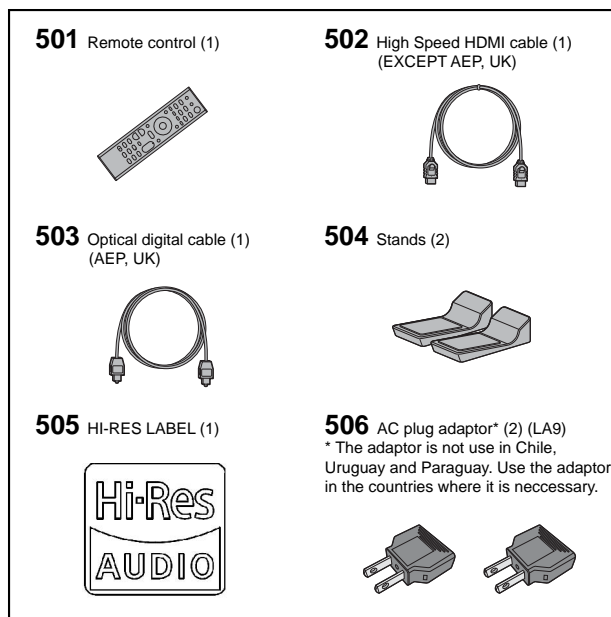
Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CN1501	1-793-152-21	CONNECTOR 11P	
CN1502	1-815-460-31	CONNECTOR, FFC/FPC 26P	
CN1551	1-822-423-11	CONNECTOR, USB (A) (ψ)	
CN1552	1-779-993-11	PIN, CONNECTOR (PWB) 5P	
CN1560	1-785-125-21	CONNECTOR 6P	
CN1561	1-820-821-71	CONNECTOR, FFC/FPC (LIF) 6P	
		< FERRITE BEAD >	
FB1500	1-481-350-21	EMI FERRITE (SMD) (1608)	
		< IC >	
IC1501	(Not supplied)	IC BD33HA5WEFJ-E2	
		< RESISTOR >	
R1502	1-218-933-11	METAL CHIP 22	5% 1/16W
R1503	1-218-933-11	METAL CHIP 22	5% 1/16W
R1504	1-218-933-11	METAL CHIP 22	5% 1/16W
R1505	1-218-933-11	METAL CHIP 22	5% 1/16W
R1506	1-218-933-11	METAL CHIP 22	5% 1/16W
R1507	1-218-959-11	METAL CHIP 3.3K	5% 1/16W
R1508	1-218-959-11	METAL CHIP 3.3K	5% 1/16W
R1509	1-218-965-11	METAL CHIP 10K	5% 1/16W
R1510	1-218-965-11	METAL CHIP 10K	5% 1/16W
R1511	1-218-965-11	METAL CHIP 10K	5% 1/16W
R1513	1-218-965-11	METAL CHIP 10K	5% 1/16W
R1519	1-218-933-11	METAL CHIP 22	5% 1/16W
R1520	1-218-990-81	SHORT CHIP 0	
R1530	1-218-990-81	SHORT CHIP 0	
R1531	1-218-990-81	SHORT CHIP 0	
R1533	1-218-990-81	SHORT CHIP 0	
R1539	1-218-990-81	SHORT CHIP 0	
R1540	1-218-990-81	SHORT CHIP 0	
R1541	1-218-990-81	SHORT CHIP 0	
R1542	1-218-990-81	SHORT CHIP 0	
R1551	1-216-864-11	SHORT CHIP 0	
R1552	1-216-864-11	SHORT CHIP 0	
R1553	1-216-864-11	SHORT CHIP 0	
R1554	1-218-990-81	SHORT CHIP 0	
R1555	1-218-990-81	SHORT CHIP 0	
R1560	1-218-990-81	SHORT CHIP 0	
R1561	1-218-990-81	SHORT CHIP 0	
R1566	1-218-990-81	SHORT CHIP 0	
R1567	1-218-990-81	SHORT CHIP 0	

Note: IC1501 on the WS CHUKEI board cannot exchange with single. When this part on the WS CHUKEI board is damaged, exchange the entire mounted board.

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS *****	
54	1-849-018-11	WIRE (FLAT TYPE) (14 CORE)	
57	1-859-082-11	LOUDSPEAKER (1.8CM)	
58	1-828-778-51	WIRE (FLAT TYPE) (26 CORE)	
59	1-492-700-61	RF MODULATOR (WS001)	
61	1-859-080-12	LOUDSPEAKER (6.5CM)-080-12	
101	1-458-765-21	CARD WLAN/BT COMBO	
103	1-849-019-11	WIRE (FLAT TYPE) (6 CORE)	
105	8-989-602-00	RC-S730 (WW)	
△ 153	1-834-966-42	POWER-SUPPLY CORD (AEP, RU, E3, SP, LA9)	
△ 153	1-835-068-21	CORD, POWER (AUS)	
△ 153	1-837-308-12	CORD, POWER-SUPPLY (US, CND)	
△ 153	1-837-345-11	CORD, POWER-SUPPLY (TW)	
△ 153	1-839-999-21	POWER-SUPPLY CORD (UK, EA)	
△ 201	1-474-602-12	REGULATOR, SWITCHING (3L405W)	
202	1-828-310-51	WIRE (FLAT TYPE) (9 CORE)	
203	1-482-293-11	CORE, FERRITE	
206	1-828-245-51	WIRE (FLAT TYPE) (24 CORE)	

ACCESSORIES

4-559-515-12	MANUAL, INSTRUCTION (ENGLISH (US), CANADIAN SPANISH, SPANISH) (US, CND)
4-559-515-41	MANUAL, INSTRUCTION (SPANISH) (LA9)
4-559-516-14	MANUAL, INSTRUCTION (ENGLISH) (UK, E3, SP, AUS)
4-559-516-23	MANUAL, INSTRUCTION (FRENCH, SPANISH, GERMAN) (AEP)
4-559-516-33	MANUAL, INSTRUCTION (DUTCH, ITALIAN, POLISH) (AEP)
4-559-516-41	MANUAL, INSTRUCTION (RUSSIAN) (RU)
4-559-516-52	MANUAL, INSTRUCTION (FRENCH, ARABIC, PERSIAN) (E3)
4-559-516-62	MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (SP, TW)
4-559-516-92	MANUAL, INSTRUCTION (ENGLISH, ARABIC) (EA)
4-559-517-11	MANUAL, INSTRUCTION (PORTUGUESE) (AEP)
4-559-517-21	MANUAL, INSTRUCTION (SWEDISH) (AEP)
4-559-517-31	MANUAL, INSTRUCTION (DANISH, FINNISH) (AEP)
4-559-517-41	MANUAL, INSTRUCTION (GREEK) (AEP)
4-559-517-51	MANUAL, INSTRUCTION (CZECH, HUNGARIAN) (AEP)
4-559-517-61	MANUAL, INSTRUCTION (TURKISH) (AEP)
4-559-517-71	MANUAL, INSTRUCTION (SLOVAKIAN) (AEP)
501	1-492-939-11 REMOTE COMMANDER RMT-AH110U (Remote control) (US, CND, LA9)
501	1-492-940-11 REMOTE COMMANDER RMT-AH110E (Remote control) (EXCEPT US, CND, LA9)
502	1-835-855-31 CORD WITH CONNECTOR (HDMI CAB) (High Speed HDMI cable) (EXCEPT AEP, UK)
503	1-837-197-31 CORD, LIGHT PLUG (Optical digital cable) (AEP, UK)
504	X-2591-199-1 STAND, ASSY (Stands)
505	4-477-465-21 HI-RES LABEL
506	1-785-504-21 ADAPTOR, CONVERSION (AC plug adaptor) (LA9)



Note 1: When the SWITCHING REGULATOR (3L405W) board is replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on page 5.

Note 2: If wire (flat type) is replaced, install it after bending it in the same form as that before replacement.

MEMO

