

NW-S603/S605/S703F/ S705F/S706F

SERVICE MANUAL

Ver. 1.2 2006.12



Photo: NW-S603

US Model

NW-S703F/S705F

Canadian Model

NW-S603/S705F/S706F

AEP Model

UK Model

NW-S603/S605/S703F/S705F/S706F

E Model

NW-S603/S703F/S705F/S706F

Australian Model

Tourist Model

NW-S703F/S705F/S706F

Chinese Model

NW-S603/S605/S705F

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SPECIFICATIONS

Audio compression technology

- MPEG-1 Audio Layer-3 (MP3)
- Windows Media Audio (WMA)*
- Adaptive Transform Acoustic Coding (ATRAC)
- Advanced Audio Coding (AAC)*
- Linear-PCM (PCM)

* Copyright protected WMA/AAC files cannot be played back.

Maximum recordable number of songs and time (Approx.)

The approximate times are based on a transferred or recorded 4-minute ATRAC*, MP3 or Linear-PCM format song. Other playable audio file formats may be different from ATRAC or MP3 format.

* Except ATRAC Advanced Lossless. Compression rate of ATRAC Advanced Lossless varies depending on songs. For example, one CD (containing 15 4-minute songs) is approximately 200 to 500 MB.

NW-S603/S703F			NW-S605/S705F	
Bit rate	Songs	Time	Songs	Time
48 kbps	685	45 hr. 40 min.	1350	90 hr. 00 min.
64 kbps	510	34 hr. 00 min.	1000	66 hr. 40 min.
66 kbps	500	33 hr. 20 min.	995	66 hr. 20 min.
96 kbps	340	22 hr. 40 min.	680	45 hr. 20 min.
128 kbps	255	17 hr. 00 min.	515	34 hr. 20 min.
132 kbps	250	16 hr. 40 min.	495	33 hr. 00 min.
160 kbps	205	13 hr. 40 min.	410	27 hr. 20 min.
192 kbps	170	11 hr. 20 min.	340	22 hr. 40 min.
256 kbps	125	8 hr. 20 min.	255	17 hr. 00 min.
320 kbps	100	6 hr. 40 min.	205	13 hr. 40 min.
352 kbps	94	6 hr. 10 min.	185	12 hr. 20 min.
1411 kbps (Linear-PCM)	23	1 hr. 30 min.	47	3 hr. 00 min.

NW-S706F		
Bit rate	Songs	Time
48 kbps	2700	180 hr. 00 min.
64 kbps	2000	133 hr. 20 min.
66 kbps	2000	133 hr. 20 min.
96 kbps	1350	90 hr. 00 min.
128 kbps	1000	66 hr. 40 min.
132 kbps	1000	66 hr. 40 min.

Bit rate	Songs	Time
160 kbps	820	54 hr. 40 min.
192 kbps	685	45 hr. 40 min.
256 kbps	515	34 hr. 20 min.
320 kbps	410	27 hr. 20 min.
352 kbps	375	25 hr. 00 min.
1411 kbps (Linear-PCM)	94	6 hr. 10 min.

Capacity (User available capacity)*

NW-S603/S703F: 1 GB (Approx. 968 MB = 1,015,726,080 bytes)

NW-S605/S705F: 2 GB (Approx. 1.89 GB = 2,035,974,144 bytes)

NW-S706F: 4 GB (3.79 GB = 4,075,716,608 bytes)

* Available storage capacity of the player may vary.

A portion of the memory is used for data management functions.

Supported bit rates

MP3: 32 to 320 kbps variable bit rate-compliant

WMA: 32 to 192 kbps variable bit rate-compliant

ATRAC: 48/64/66 (ATRAC3)*96/105 (ATRAC3)/128/132 (ATRAC3)/160/192/256/320/352 kbps

* CD recording cannot be done using the SonicStage software in ATRAC3 at 66/105 kbps.

ATRAC Advanced Lossless*: 64/128/132 (ATRAC3 base layer)/ 256/352 kbps

* The bit rate description of ATRAC Advanced Lossless shows the bit rate for the contents which enables fast transfer to ATRAC compatible devices or media.

AAC: 16 to 320 kbps variable bit rate-compliant*

* Nonstandard bit rates or non-guaranteed bit rates are included depending on the sampling frequency.

Linear-PCM: 1411 kbps

Sampling frequency*

MP3: 32, 44.1, 48 kHz

WMA: 44.1 kHz

ATRAC: 44.1 kHz

AAC: 11.025, 12, 16, 22.05, 24, 32, 44.1, 48 kHz

Linear-PCM: 44.1 kHz

* Sampling frequency may not correspond to all encoders.

– Continued on next page –

DIGITAL MUSIC PLAYER

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Sony Corporation
Connect Business Division
Published by Sony Techno Create Corporation

SONY®

NW-S603/S605/S703F/S705F/S706F

Frequency response

20 to 20,000 Hz (single signal measurement)

FM Frequency range (NW-S703F/S705F/S706F only)

87.5 to 108.0 MHz

IF (FM)

375 kHz

Antenna

Headphone cord antenna

Interface

Headphone: Stereo mini

WM-POR(T) (multiple connecting terminal): 22 pin

Hi-Speed USB (USB 2.0 compliant)

Operating temperature

5°C to 35°C (67°F to 95°F)

Power source

Built-in rechargeable lithium-ion battery

USB power (from a computer through supplied USB cable)

Battery life (continuous playback)*

* This is when the power save setting is "Save ON Super," and Equalizer, VPT ,Clear Stereo , or Dynamic Normalizer is set to "OFF". The battery duration will vary depending on temperature and usage.

NW-S603/S605	
Playback at ATRAC 132 kbps	Approximately 48 hours
Playback at ATRAC 128 kbps	Approximately 44 hours
Playback at ATRAC 48 kbps	Approximately 46 hours
Playback at ATRAC Advanced Lossless 64 kbps	Approximately 33 hours
Playback at MP3 128 kbps	Approximately 44 hours
Playback at WMA 128 kbps	Approximately 39 hours
Playback at AAC 128 kbps	Approximately 45 hours
Playback at Linear-PCM 1411 kbps	Approximately 42 hours
At recording	Approximately 10 hours

NW-S703F/S705F/S706F		
	With Noise Canceling function ON	With Noise Canceling function OFF
Playback at ATRAC 132 kbps	Approximately 44 hours	Approximately 50 hours
Playback at ATRAC 128 kbps	Approximately 41 hours	Approximately 46 hours
Playback at ATRAC 48 kbps	Approximately 43 hours	Approximately 48 hours
Playback at ATRAC Advanced Lossless 64 kbps	Approximately 28 hours	Approximately 35 hours
Playback at MP3 128 kbps	Approximately 41 hours	Approximately 46 hours
Playback at WMA 128 kbps	Approximately 37 hours	Approximately 41 hours
Playback at AAC 128 kbps	Approximately 42 hours	Approximately 47 hours
Playback at Linear-PCM 1411 kbps	Approximately 39 hours	Approximately 44 hours
At receiving FM broadcasting	Approximately 19 hours	Approximately 20 hours
At recording	—	Approximately 10 hours

Dimension (w/h/d)

87.2 × 27.4 × 14.9 mm (3.4 × 0.9 × 0.6 inches)

(w/h/d, projecting parts not included)

Mass

Approx. 47 g (Approx. 2 oz)

Supplide Accessories

Please check the accessories in the package.

Headphones (1)

Headphone extension cord (1)

Earbuds (Size S, L) (1)

USB cable (1)

Attachment (1)

Use when connecting the player to the optional cradle (BCR-NWU3)*¹, etc.

CD-ROM*² (1)

- SonicStage software

- Operation Guide (PDF file)

Quick Start Guide (1)

*¹ Available soon.

Depending on the country/region in which you have purchased the player, some optional accessories may not be available.

*² Do not attempt to play this CD-ROM in an audio CD player.

Design and specifications are subject to change without notice.

US and foreign patents licensed from Dolby Laboratories.

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Notes on chip component replacement

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

Flexible Circuit Board Repairing

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

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

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.

NOTE THE IC201, IC2701, IC3005 AND IC3007 ON THE MAIN BOARD REPLACING

Replacement of IC201, IC2701, IC3005 and IC3007 on the MAIN board used in this set requires a special tool

NOTE THE IC101, IC401 AND IC3001 ON THE MAIN BOARD REPLACING

When IC101, IC401 and IC3001 on the MAIN board is damaged, exchange the new MAIN board for the MAIN board which IC damaged

NOTE THE IC1301 ON THE SUB BOARD REPLACING

When IC1301 on the SUB board is damaged, exchange the new SUB board for the SUB board (included in MAIN board) which IC damaged

Minimum System Requirements (for the player)

- Computer
IBM PC/AT or compatible computer preinstalled with the following Windows operating systems:
 - Windows 2000 Professional (Service Pack 3 or later)
 - Windows XP Home Edition
 - Windows XP Professional
 - Windows XP Media Center Edition
 - Windows XP Media Center Edition 2004
 - Windows XP Media Center Edition 2005
- Not supported by OSs other than above.
- CPU: Pentium III 450 MHz or higher
- RAM: 128MB or more
- Hard Disk drive: 200MB or more of available space (1.5GB or more is recommended)
More space may be required, depending on the version of the operating system. Additional space is required for storing music data.
- Display:
 - Screen Resolution: 800 × 600 pixels (or higher) (recommended 1,024 × 768 or higher)
 - Colors: High Color (16bit) (or higher) (SonicStage may not operate properly at color settings at or below 256 colors.)
- CD-ROM drive (supporting Digital Music CD playback capabilities using WDM)
To create original CDs or to back up audio CDs, a CD-R/RW drive is required.
- Sound board
- USB port (Hi-Speed USB is recommended)
- Internet Explorer 5.5 or later needs to be installed.
- Internet connection is required to use the CD Data Base (CDDb) or Electronic Music Distribution (EMD).

We do not guarantee operation for all computers even if they meet the above System Requirements.

Not supported by the following environments:

- Personally constructed computers or operating systems
- An environment that is an upgrade of the original manufacturer-installed operating system
- Multi-boot environment
- Multi-monitor environment
- Macintosh

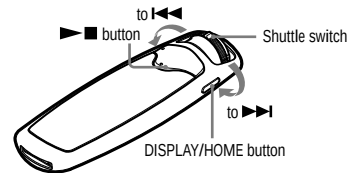
NOTE THE MAIN BOARD REPLACING

When the MAIN board is replaced, format it according to the following.

Formatting Memory (Format)

You can format the built-in flash memory of the player.

If the memory is formatted, all music data, other stored data and registered jacket pictures will be erased. Be sure to verify the data stored in memory prior to formatting and export any necessary data to SonicStage or the hard disk of your computer.



Note

This function is only available in the stop mode.

- 1 Press and hold the DISPLAY/HOME button in the stop mode until the HOME screen appears.
- 2 Rotate the shuttle switch to select (Settings) and press the button to confirm.
- 3 Rotate the shuttle switch to select "Advanced Settings>" and press the button to confirm.
- 4 Rotate the shuttle switch to select "Initialize>" and press the button to confirm.
- 5 Rotate the shuttle switch to select "Format>" and press the button to confirm.
- 6 Rotate the shuttle switch to select "OK" and press the button to confirm.
"FORMATTING..." appears and formatting starts.
When formatting is completed, "COMPLETE" appears.

To cancel formatting

Select "Cancel" in step 6 and press the button.

To return to the previous menu

Press the DISPLAY/HOME button.

Note

Do not format the built-in flash memory of the player using Windows Explorer.

COLOR VARIATION

Model	Destination	COLOR				
		BLACK	BLUE	GOLD	PINK	VIOLET
NW-S603	CND (Clamshell)	●	●		●	
	CE7	●	●		●	
	CEW	●	●			
	KR		●			
	CH		●			
NW-S605	CE7	●	●		●	
	CEW	●				
	CH	●				
NW-S703F	US (Clamshell)				●	●
	CE7	●		●	●	●
	CEV	●				●
	CEW	●				●
	E, AUS, JE	●		●		
	MX				●	●
	KR	●		●		
NW-S705F	US (Clamshell)	●				
	CND (Clamshell)	●			●	
	CE7	●		●	●	●
	CEV	●				
	E, AUS, JE	●				●
	MX				●	●
	KR	●				●
	CH	●				
NW-S706F	CND (Clamshell)	●				
	CE7	●		●		
	CEV	●				
	E, AUS, JE	●				
	MX					●
	KR	●				

- Abbreviation

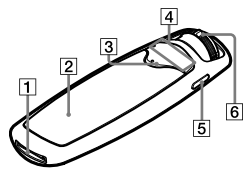
AUS : Australian model
 CE7 : AEP and UK models
 CEV : East European model
 CEW : French model
 CH : Chinese model
 JE : Tourist model
 KR : Korean model
 MX : Mexican model

SECTION 2

GENERAL

This section is extracted from instruction manual.

Parts and Controls



1 WM-PORT

Connect to the supplied USB cable, accessories for WM-PORT such as optional accessories for recording with the player, or peripheral device.

2 Display

3 ►■* button

Starts song playback. When starting playback, ► appears in the display, and if the ►■ button is pressed again, ■ appears and playback stops. When a menu appears on the display, use this button to confirm the item of the menu.

Hint

There is no power button on the player. When you stop song playback or FM reception (NW-S703F/S705F/S706F only) by pressing the ►■ button, after about a few seconds, the display goes off automatically and the player enters Sleep status.

The player consumes very little battery power.

The player consumes very little battery

4 VOL +/- button

Adjusts the volume.

* There are tactile dots. Use them to help with button operation.

5 DISPLAY/HOME button

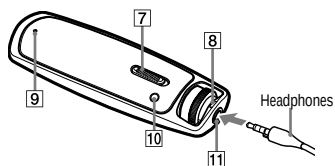
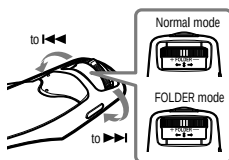
When you press this button while the player is in the play or stop mode, you can change the display. Press and hold this button to display the HOME screen.

While the menu appears, when this button is pressed again, the previous screen returns and when pressing and holding, the screen returns to the HOME screen.

6 Shuttle switch

By rotating the shuttle switch, you can select a menu item, skip to the beginning of the song, or fast-forward /fast-rewind.

You can also set to the FOLDER mode or normal mode by sliding the shuttle switch.



7 HOLD switch

You can protect the player against accidental operation by using the HOLD switch when carrying it. By sliding the HOLD switch to the HOLD position, all operation buttons are disabled. If you press buttons or rotate the shuttle switch while the HOLD function is activated, "HOLD" appears in the display. If you slide the HOLD switch to the opposite position, the HOLD function is released.

8 Strap hole

This is used to attach a strap (sold separately).

9 RESET button

Resets the player by pressing the RESET button with a small pin, etc. For details.

10 PLAY MODE/SOUND button

Switches the play mode. Press and hold this button to change the sound quality setting.

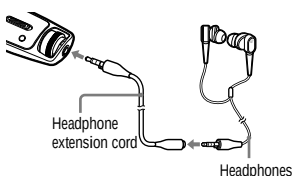
11 Headphone jack

For connecting the headphones. Connect until it clicks into place. If connecting the headphones improperly, it may not sound right.

For NW-S703F/S705F/S706F users

Connect the headphone plug securely following to the plug shape for the headphones, and to the orientation mark (○) and the plug shape for the headphone extension cord.

When using the headphone extension cord



About the Noise Canceling function (NW-S703F/S705F/S706F only)

The Noise Canceling function is available only when using the supplied headphones. Noise Canceling does not work with models without the Noise Canceling function (NW-S603/S605), even if the supplied headphones are used.

To operate the player with the shuttle switch

Normal mode	
To	Operation
In play mode	
Skip to the beginning of the next song.	Rotate the shuttle switch to ►► briefly.
Skip to the beginning of the current song.	Rotate the shuttle switch to ◀◀ briefly.
Fast-forwards the current song.	Rotate the shuttle switch to ►► and release it at the desired point.
Fast-rewinds the current song.	Rotate the shuttle switch to ◀◀ and release it at the desired point.
In stop mode	
Select the beginning of the next song, and if held longer, continues to skip through the next song(s).	Rotate and hold the shuttle switch to ►►.
Select the beginning of the current song, and if held longer, continues to skip through the previous song(s).	Rotate and hold the shuttle switch to ◀◀.

FOLDER mode	
To	Operation
In play mode/In stop mode	
Skip to the first song in the next sort category set by the song order.	Rotate the shuttle switch to ►► briefly.
Skip to the first song in the current sort category set by the song order.	Rotate the shuttle switch to ◀◀ briefly.
Select the first song in the next sort category, and if held longer, continues to skip through the next sort category set by the song order.	Rotate and hold the shuttle switch to ►►.
Select the first song in the current sort category, and if held longer, continues to skip through the previous sort category set by the song order.	Rotate and hold the shuttle switch to ◀◀.

Display

When selecting Jacket Mode ON (Default setting)



12 Jacket picture display

Displays the jacket picture of an album after you register the jacket and transfer songs from SonicStage. You can set the jacket picture to not display.

13 Icon indication

For the normal mode, displays ♪ on the first line, and displays ◯ or ● according to the song order setting on the second line.

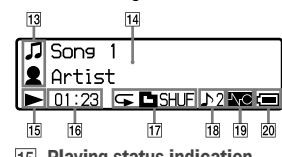
For the FOLDER mode, displays an icon of the category set in the song order on the first line, and displays ◯ or ● on the second line. When selecting the FOLDER mode during playback of a playlist, displays the selected playlist (▶: playlist created by SonicStage, ♡: favorite 100 songs, and ◻▶: the latest transferred album) on the first line.

14 Text/graphic information display

Displays album title, artist name, song title, current date and time, messages and menu.

To change the display mode, press the DISPLAY/HOME button. Switch the display to the Power Save mode when you do not operate the player for a while.

When selecting Jacket Mode OFF



15 Playing status indication

Displays the current play mode (▶: playback, ■: stop, ◀◀ (▶▶): fast-rewinds (fast-forwards), ◀◀ (▶▶): skips to the beginning of the current (or next) song).

16 Lapse time indication

Displays the elapsed time.

17 Play mode indication (PLAY MODE)

Displays the current play mode icon. If the play mode is set to "Normal," no icon appears.

18 Sound quality setting indication

Displays the current sound quality icon. If the sound quality is not set, no icon appears.

19 Noise Canceling indication (NW-S703F/S705F/S706F only)

Displays NC when the Noise Canceling function is set.

20 Remaining battery indication

Displays the remaining battery power.

Hint

For information on the FM tuner (NW-S703F/S705F/S706F only) display, see "Enjoy Listening to FM Radio".

NW-S603/S605/S703F/S705F/S706F

SECTION 3

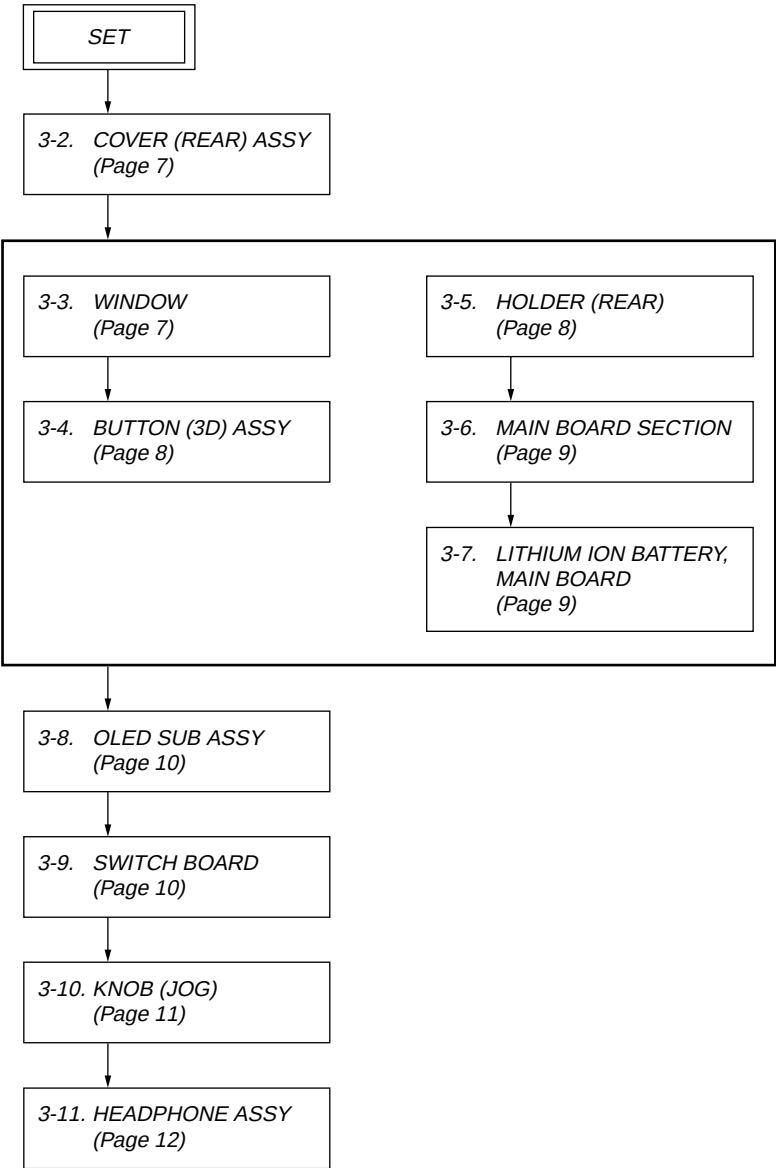
DISASSEMBLY

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

3-1. DISASSEMBLY FLOW

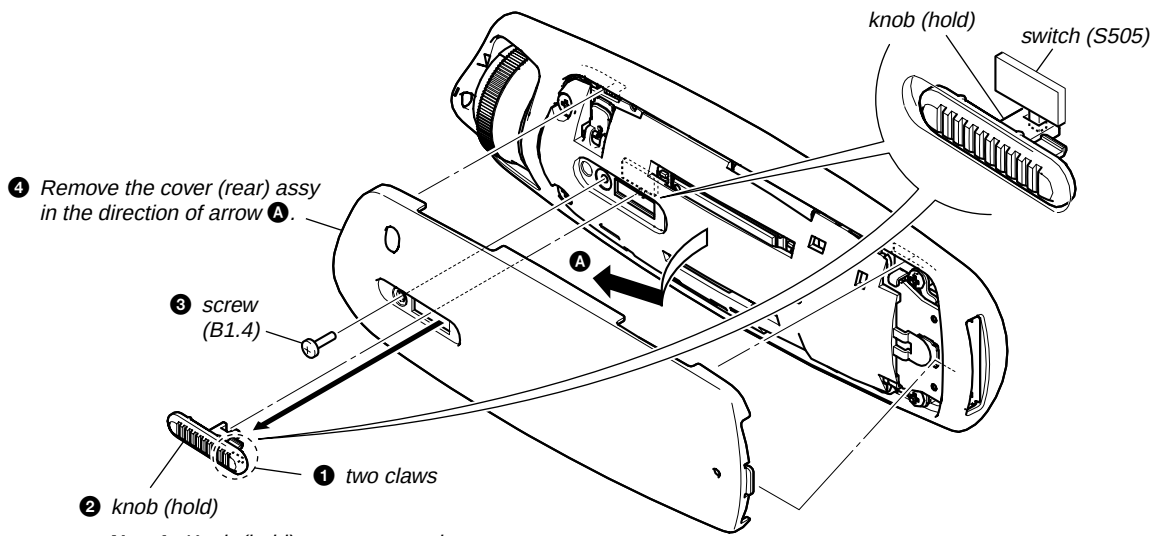
Note 1: The process described in  can be performed in any order.

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



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

3-2. COVER (REAR) ASSY



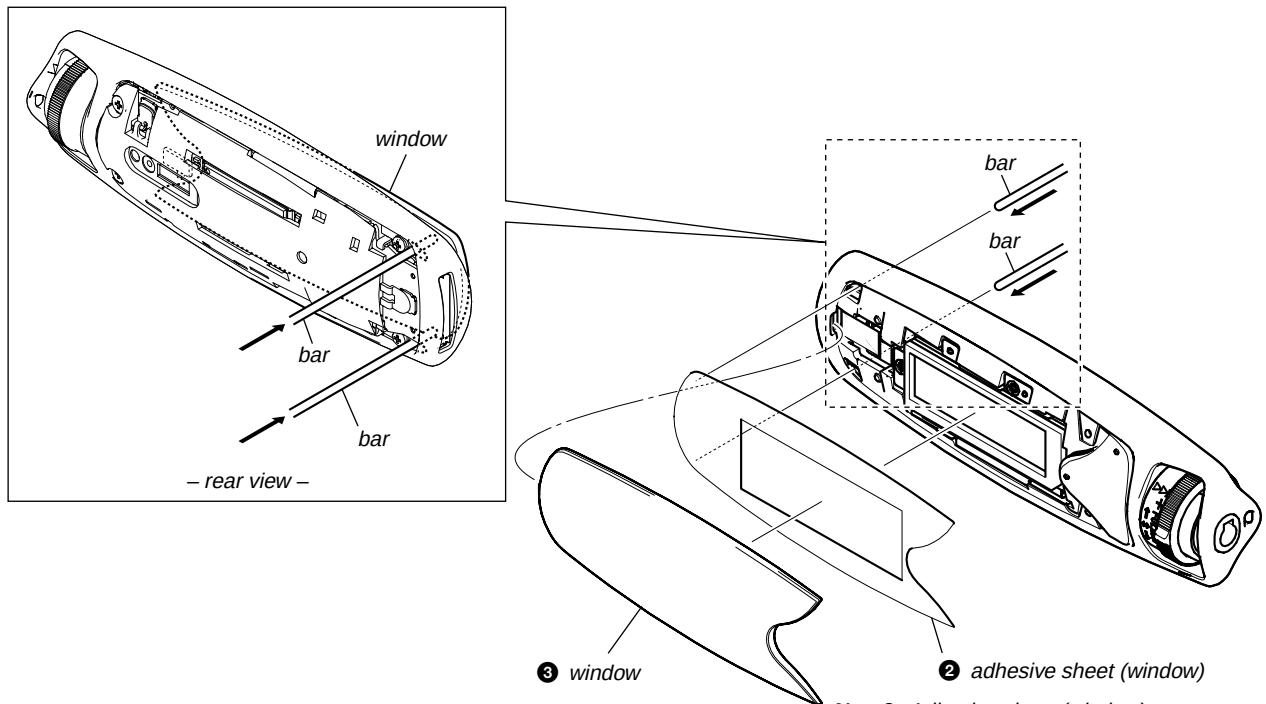
Note1: Knob (hold) cannot re-used.
Please replace to brand-new part ones
knob (hold) is removed.

Note2: On installation of knob (hold),
adjust the position of switch (S505)
and knob (hold).

3-3. WINDOW

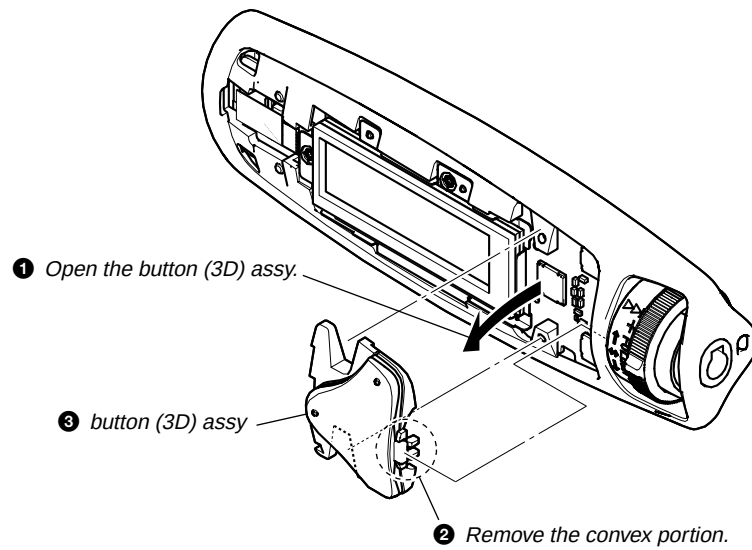
- 1 Insert a bar into the position shown in the figure,
and push it to remove the window, not giving an excessive force.

Note1: Please work noting that the window is damaged.

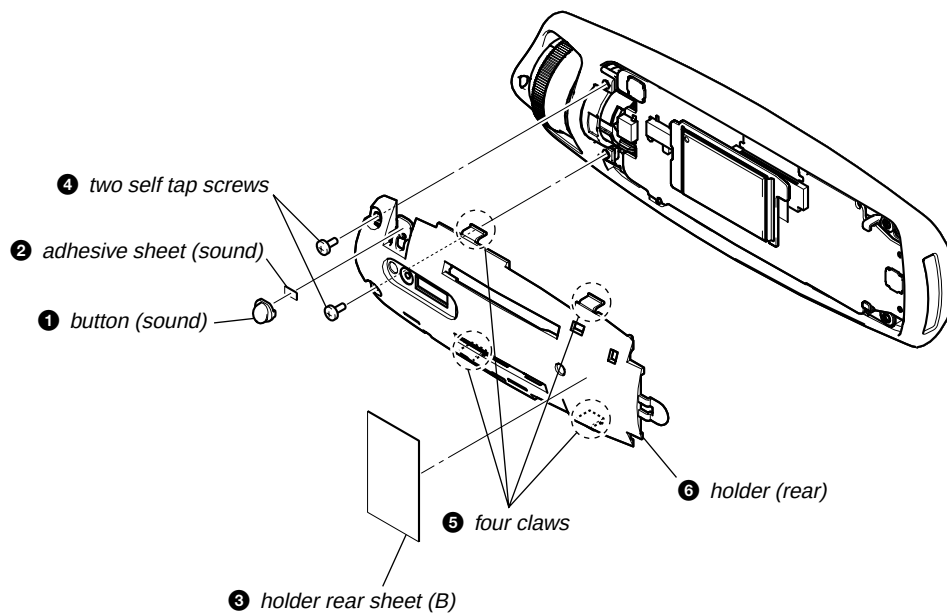


Note2: Adhesive sheet (window) cannot re-used.
Please replace to brand-new part ones
adhesive sheet (window) is removed.

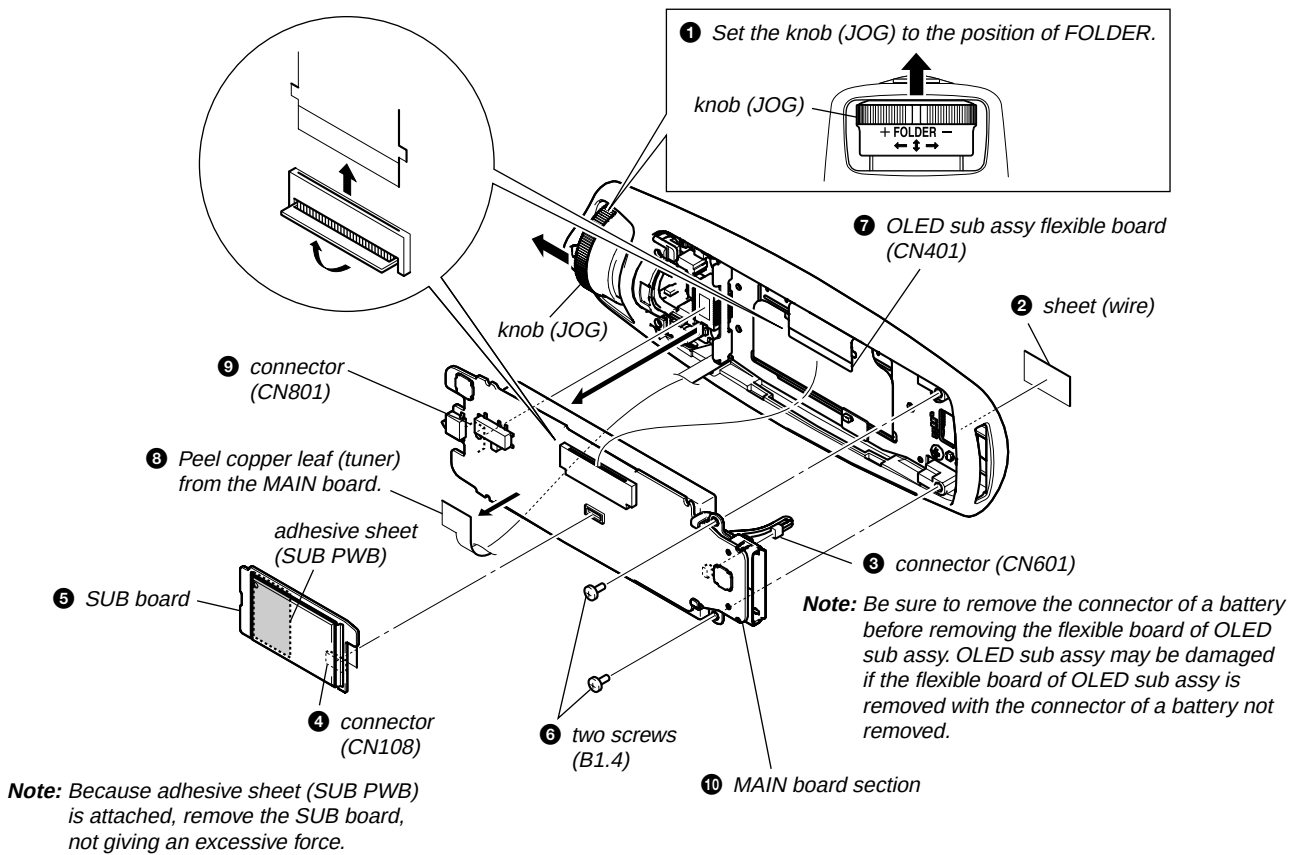
3-4. BUTTON (3D) ASSY



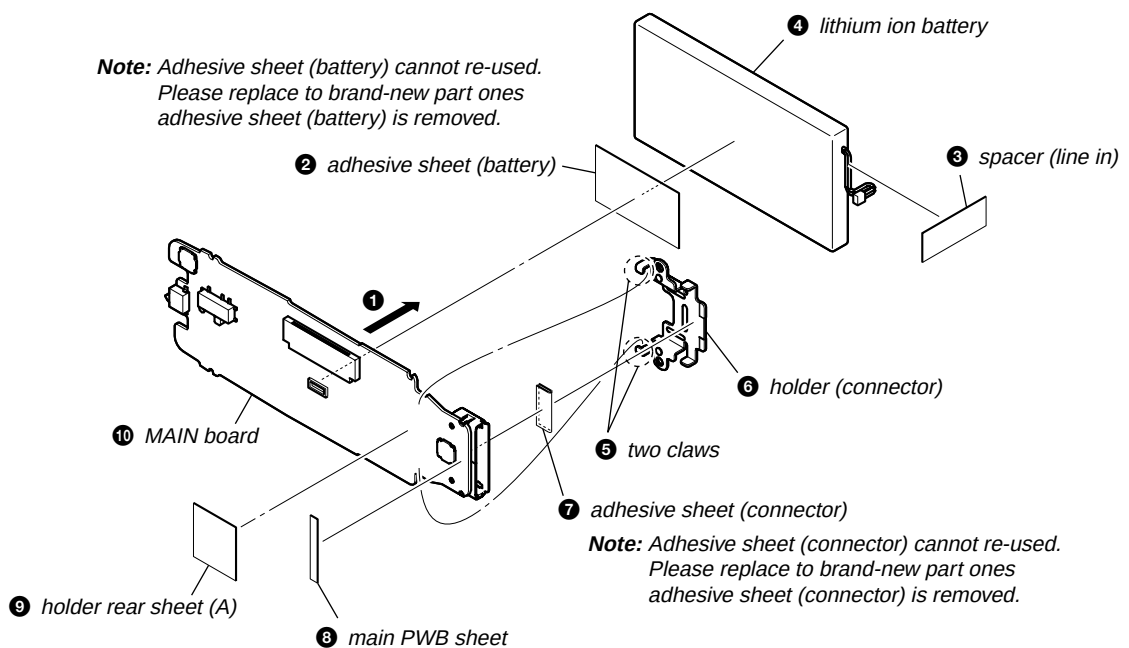
3-5. HOLDER (REAR)



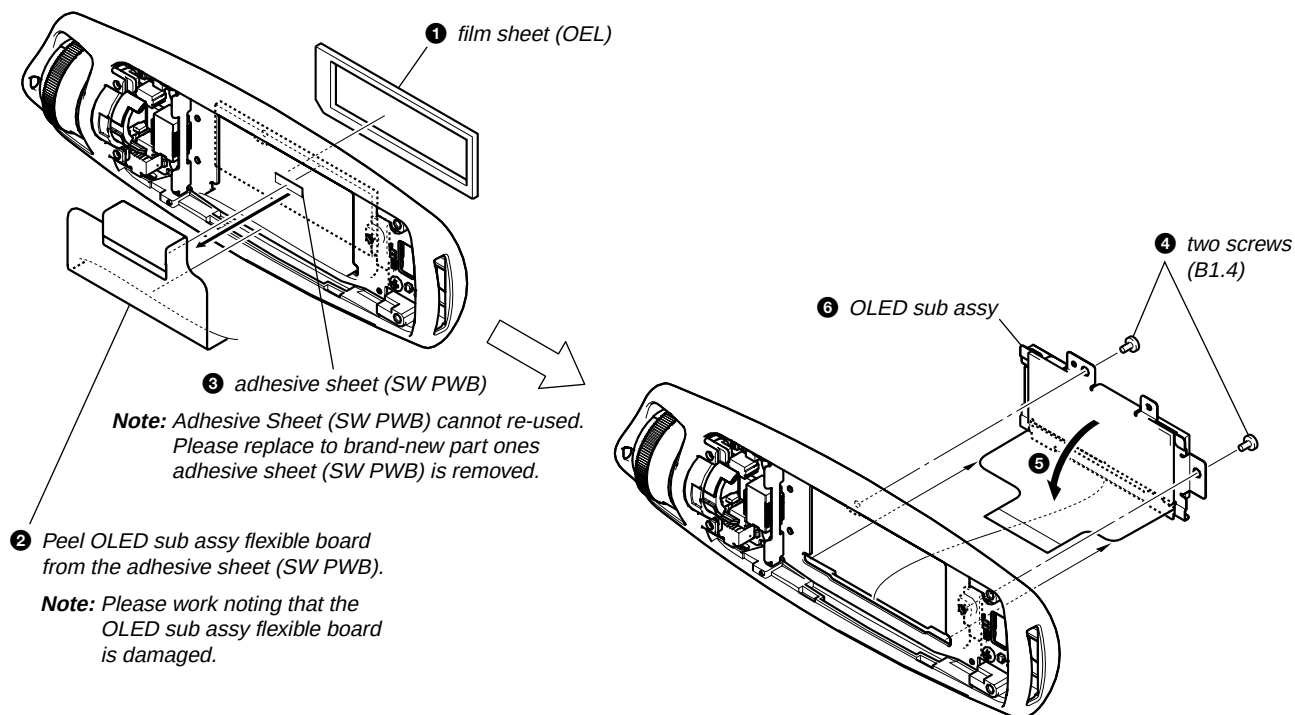
3-6. MAIN BOARD SECTION



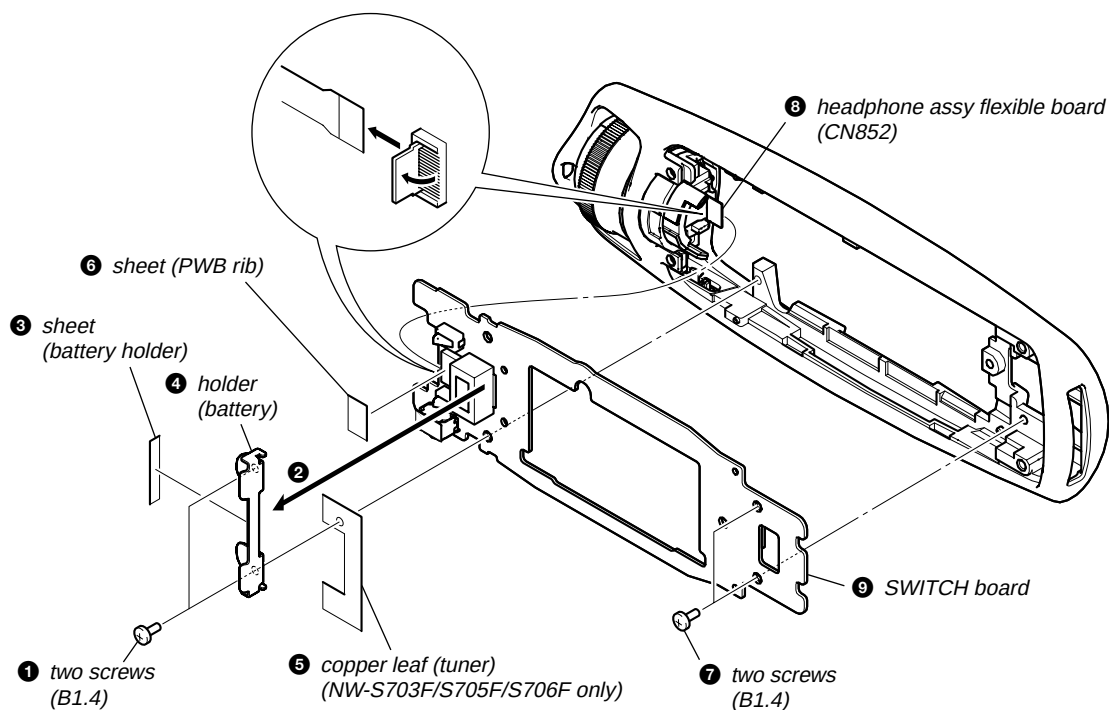
3-7. LITHIUM ION BATTERY, MAIN BOARD

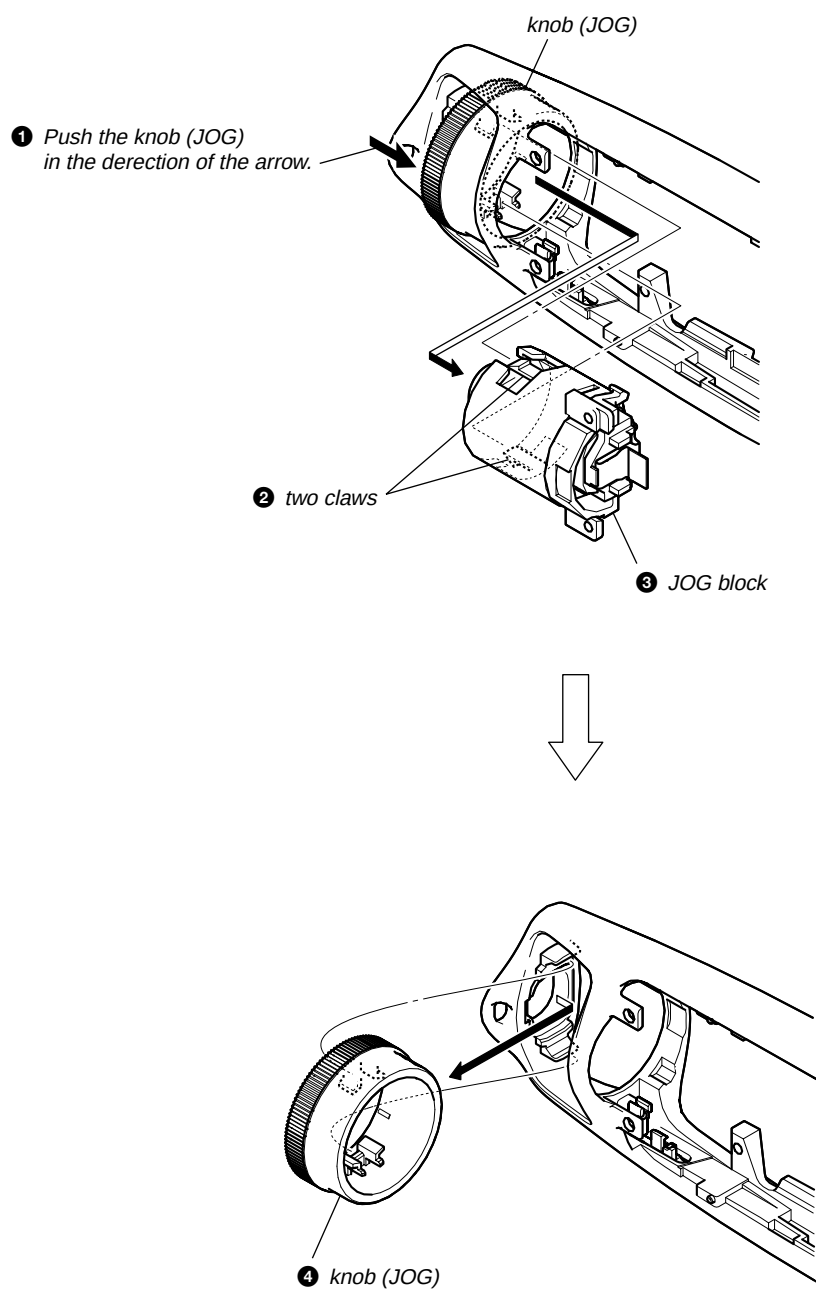


3-8. OLED SUB ASSY

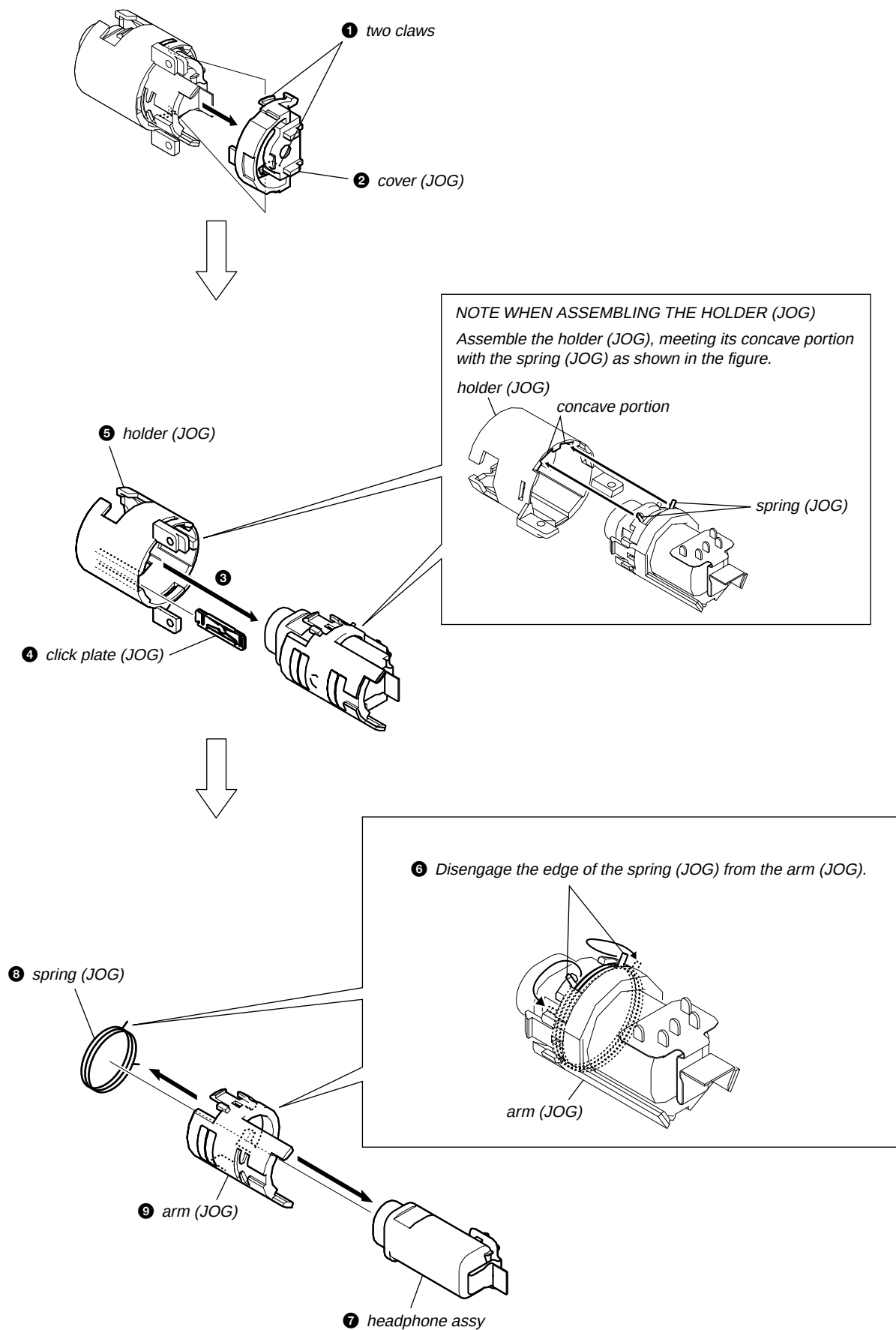


3-9. SWITCH BOARD



3-10. KNOB (JOG)

3-11. HEADPHONE ASSY

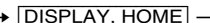


SECTION 4

TEST MODE

1. HOW TO ENTER THE TEST MODE

1. While keeping pressing the  and operate the set in order below (Both of the position of Jog shuttle are acceptable).

 →  →  →  →  →  →  → 
→  → 

2. The screen is turned off for a while.
3. Then the characters “TEST MODE INITIALIZE...” is displayed momentarily, and then the following indication is displayed on screen.
“TEST MODE”
“1. 00. 00. 00 [JP]”

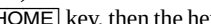
2. HOW TO CHANGE THE TEST MODE

1. While the set is in the TEST mode, set the HOLD switch from the ON to OFF position, or OFF to ON position.
2. Whenever the HOLD switch is switched, the following display is alternately displayed..
“TEST MODE (HOLD:OFF)” and
“TEST MODE (HOLD:ON)”

3. SYSTEM PARAMETER INITIALIZE

1. While the set is in the TEST mode, press the PLAYMODE, SOUND key.
2. Then the system parameter is initialized and the following indication is displayed on screen.
“System Parameter Initialized.”

4. ALL KEY CHECK MODE

1. While the set is in the TEST mode, press the  key, and then the following indication is displayed on screen.
“ALL KEY CHECK”
“0x0001(ALL=0x03f3)”
2. Press the  key, then the hexadecimal number 2h is added and the following indication is displayed.
“0x0003(ALL=0x03f3)”
3. Press the  key, then the hexadecimal number 10h is added and the following indication is displayed.
“0x0013(ALL=0x03f3)”
4. Press the  key, then the hexadecimal number 20h is added and the following indication is displayed.
“0x0033(ALL=0x03f3)”
5. Turn the jog shuttle in the direction of , then the hexadecimal number 40h is added and the following indication is displayed.
“0x0073(ALL=0x03f3)”
6. Turn the jog shuttle in the direction of , then the hexadecimal number 80h is added and the following indication is displayed.
“0x00f3(ALL=0x03f3)”
7. Adjust the jog shuttle to the position of FOLDER, then the hexadecimal number 100h is added and the following indication is displayed.
“0x01f3(ALL=0x03f3)”
8. Press the PLAYMODE, SOUND key, then the hexadecimal number 80h is added then “0x03f3(ALL=0x03f3)”
“KEYCHECK OK!” displayed momentarily, and the set exits the All Key Check Mode and the Test Mode.
9. While the set is in any step of step 2 to 7 of the All Key Check mode, press the  key. Then “key check Canceled...” displayed momentarily, and the All Key Check mode is stopped. Re-press the  key, back to the original step the All Key Check mode.

5. CHARGE CURRENT SELECT

1. While the set is in the TEST MODE (HOLD:ON), turn the jog shuttle in the direction of , the charge current and the indication toggles as shown below.
“CHG: 100mA” and “CHG: 500mA”

6. CHARGE ON/OFF SELECT

1. While the set is in the TEST MODE (HOLD:ON), insert to the USB port on PC.
2. Turn the jog shuttle in the direction of , then the charge ON/OFF and the indication toggles as shown below.
“CHG: start..” and “CHG: stop..”

7. WM-PORT CONNECTION CHANGE

1. While the set is in the TEST MODE (HOLD:ON), set is installed in accessories (cradle etc.).
2. Press the  key, code of accessories being installed now is displayed.
3. Press the  key, then the Audio-in/Audio-out and the indication toggles as shown below.
“OFF”: Audio-in/Audio-out doesn’t operate.
“Audio-in Monitor”: Audio-in of the cradle is monitored to the headphone.
“Audio-out”: The headphone output becomes invalid, and Audio-out output becomes effective.

8. BEEP ON/OFF CHECK

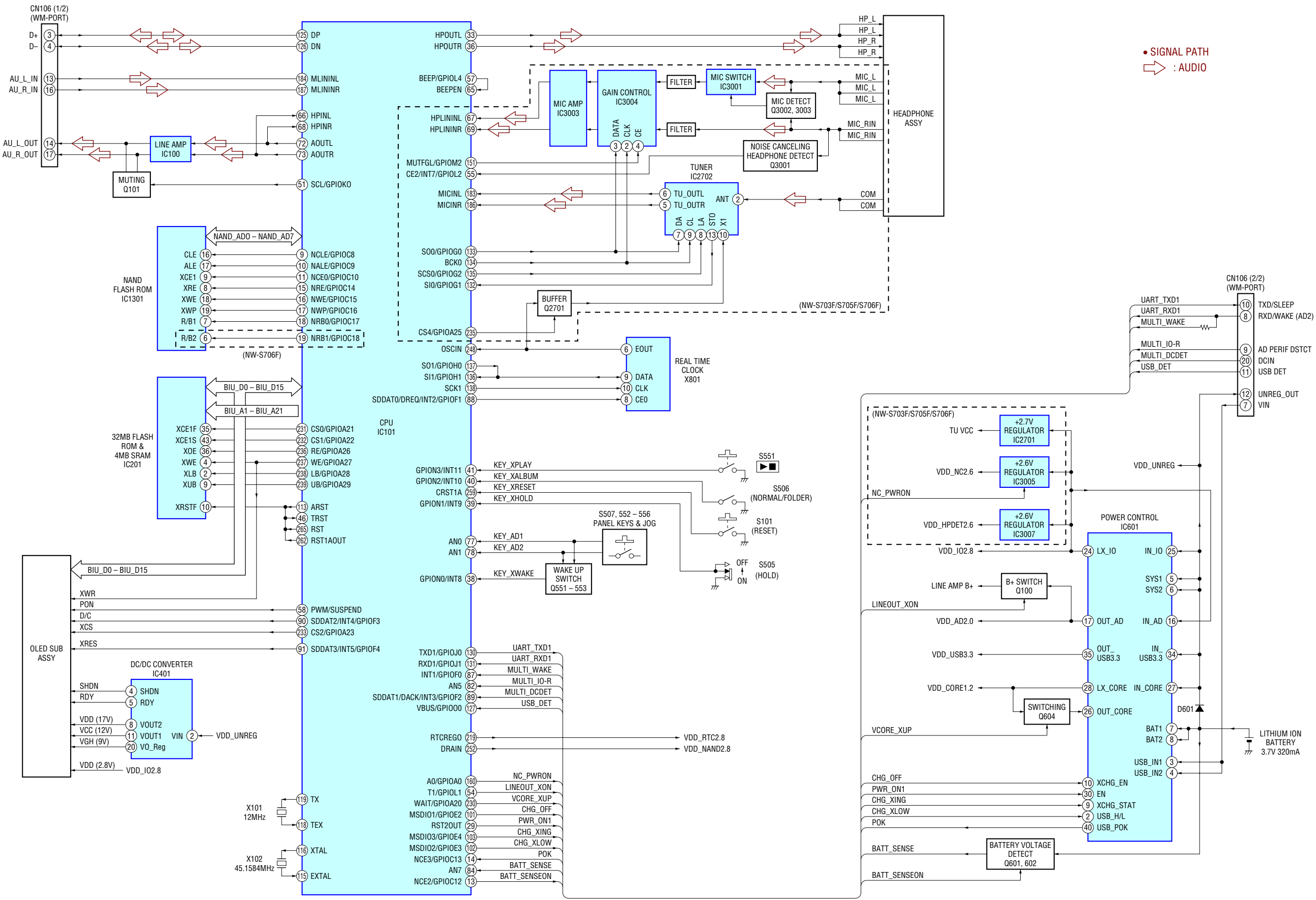
1. While the set is in the TEST MODE (HOLD:ON), press the  key.
2. Then the beep ON/OFF and the indication toggles as shown below.
“BEEP: OFF” and “BEEP: ON”
3. When switch is set to “BEEP: OFF” from “BEEP: ON” each time the  key is pressed, check that the beep sound comes from headphone jack.

9. DISPLAY CHECK

1. While the set is in the TEST MODE (HOLD:ON), press the  key.
2. Then brightness of entire screen changes in the following order, each time the  key is pressed.
Entire screen shows red full brightness. (ALL RED ON)
Entire screen shows green full brightness. (ALL GREEN ON)
Entire screen shows blue full brightness. (ALL BLUE ON)
Entire screen shows black screen. (ALL OFF)
Entire screen shows white full brightness. (ALL ON)

SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM



• Note for Printed Wiring Boards and Schematic Diagrams

Note on Printed Wiring Board:

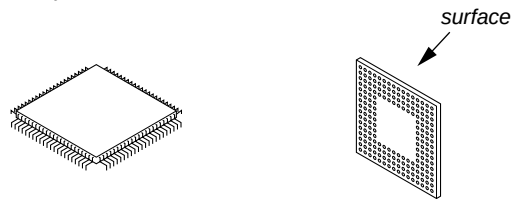
-  : parts extracted from the component side.
-  : parts extracted from the conductor side.
-  : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

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

- All board are multi-layer printed board.
However, the patterns of intermediate-layers have not been included in diagrams.

*Replacement of IC201, IC2701, IC3005 and IC3007 on the MAIN board used in this set requires a special tool.

- Lead Layouts



Lead layout of conventional IC CSP (chip size package)

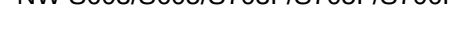
Note on Schematic Diagram:

- 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 $\frac{1}{4}\text{W}$ or less unless otherwise specified.
-  : panel designation.
-  : B+ Line.
- Power voltage is dc 3.7 V and fed with regulated dc power supply from CN601 pin ① and pin ② on the MAIN board.
- Voltages are dc with respect to ground under no-signal conditions.
no mark : PLAY BACK
- Voltages are taken with a VOM (Input impedance 10 M Ω).
Voltage variations may be noted due to normal production tolerances.
- Signal path.
 : AUDIO

*Replacement of IC201, IC2701, IC3005 and IC3007 on the MAIN board used in this set requires a special tool.

- The voltage and waveform of CSP (chip size package) cannot be measured, because its lead layout is different from that of conventional IC.

NW 3333, 3333, 3133, 3133, 3133



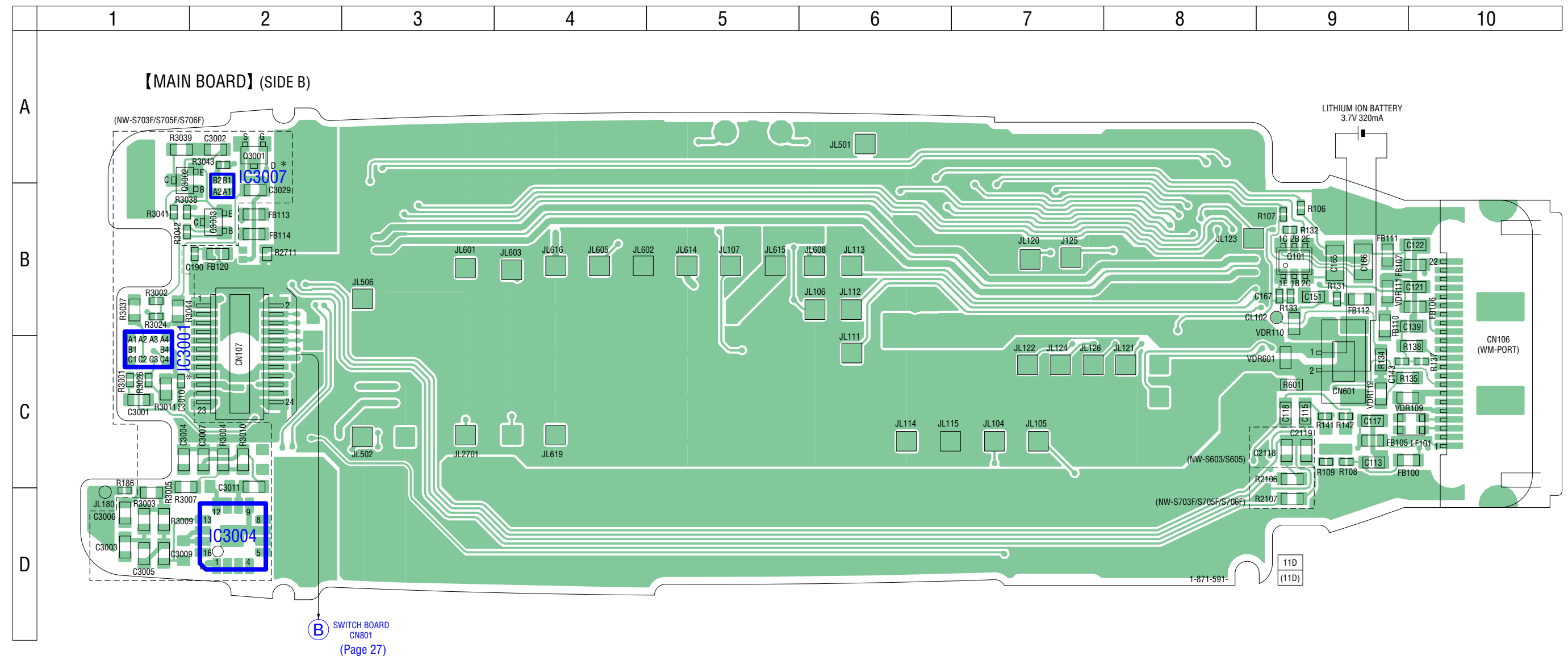
NW 3333, 3333, 3133, 3133, 3133

NW 3333, 3333, 3133, 3133, 3133

NW 3333, 3333, 3133, 3133, 3133

NW 3333, 3333, 3133, 3133, 3133

5-3. PRINTED WIRING BOARD – MAIN Board (Side B) – : Uses unleaded solder.



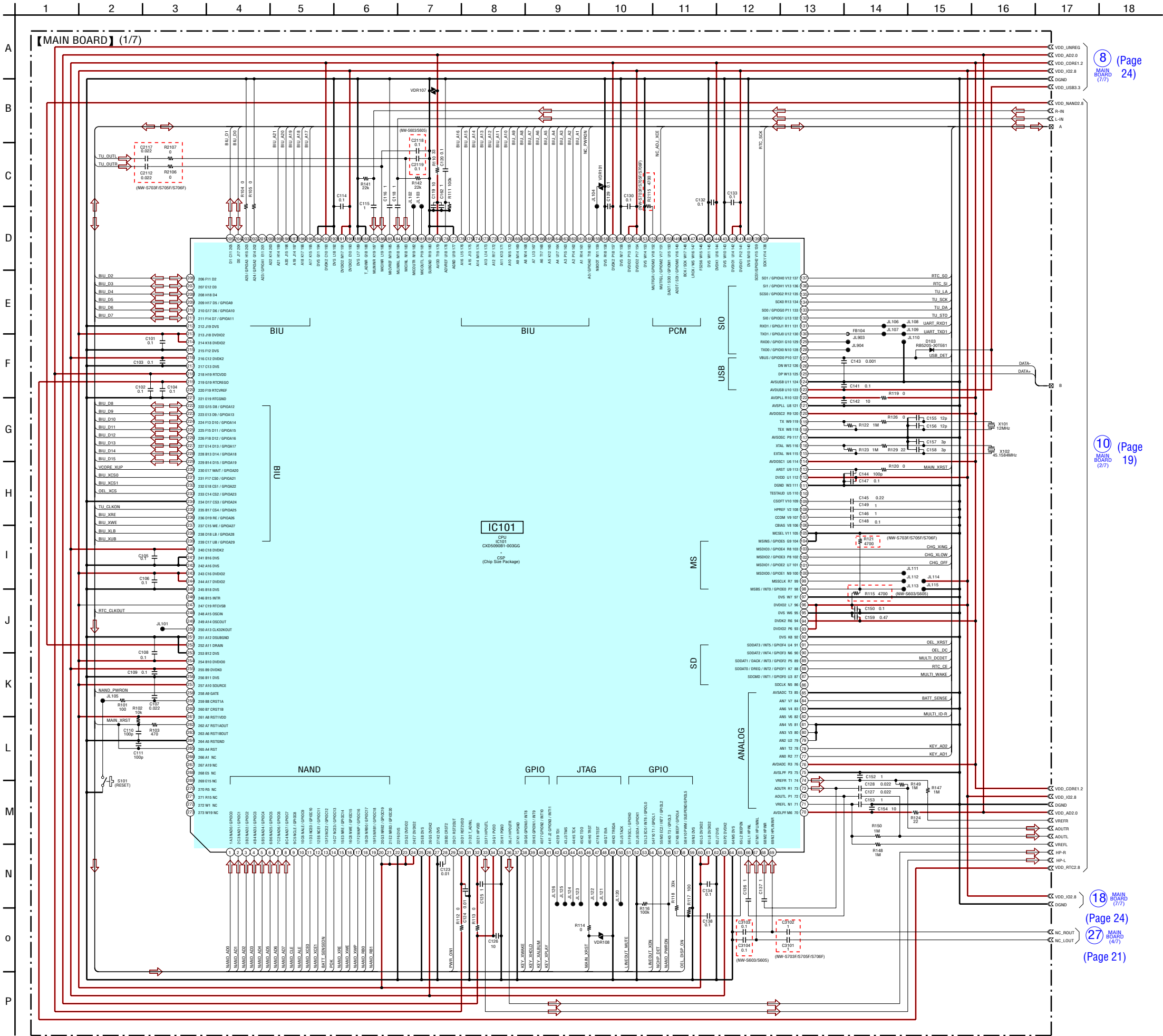
- **Semiconductor Location**

Ref. No.	Location
IC3001	C-1
IC3004	D-2
IC3007	B-2
Q101	B-9
Q3001	A-2
Q3002	A-1
Q3003	B-2

Note: When the MAIN board is replaced, format it according to the "NOTE OF MAIN BOARD REPLACING" (refer to page 3) of the servicing notes.

Note: When IC3001 on the MAIN board are damaged, exchange the new MAIN board for the MAIN board which IC damaged.

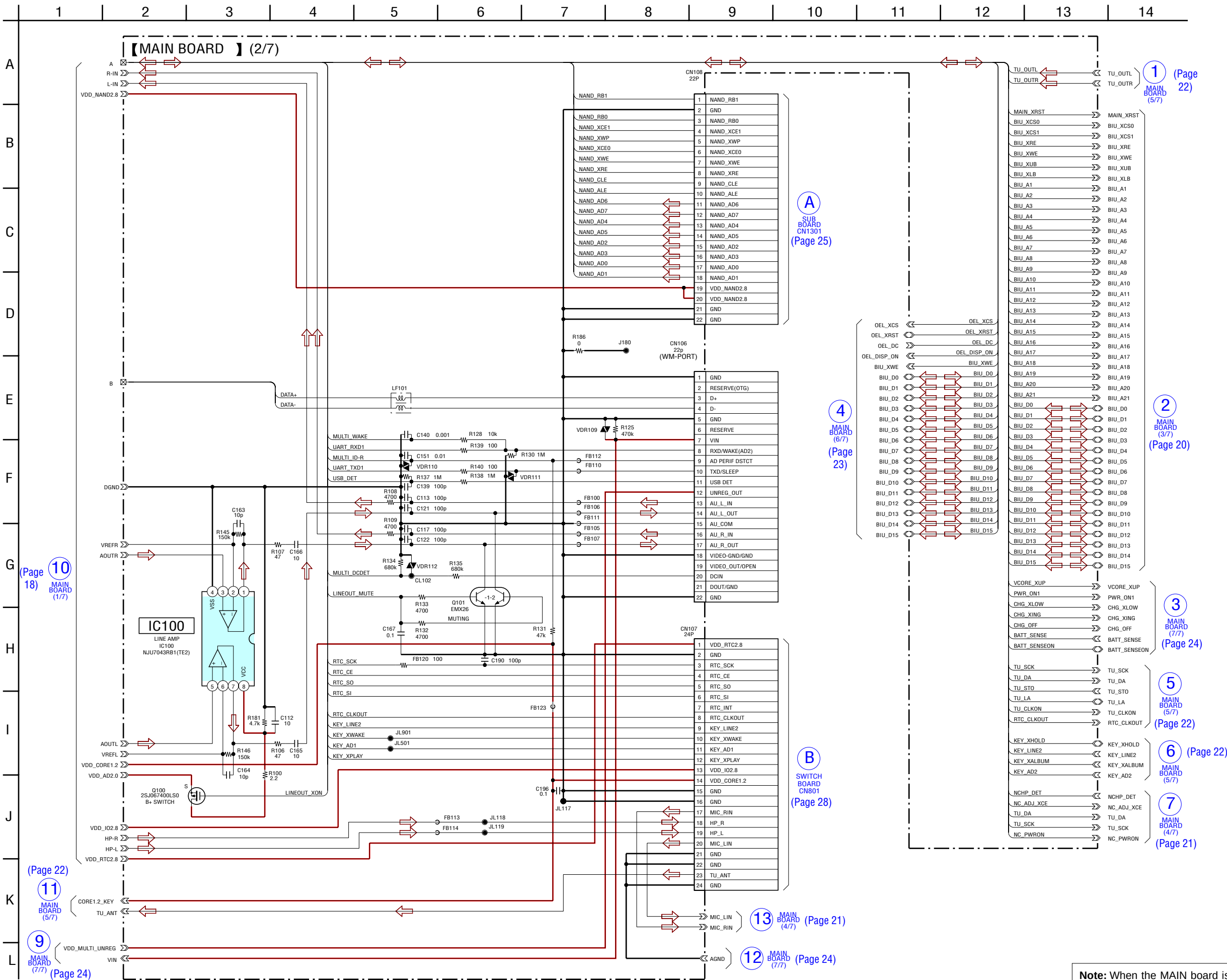
5-4. SCHEMATIC DIAGRAM – MAIN Board (1/7) – • See page 33 for IC Pin Function Description.



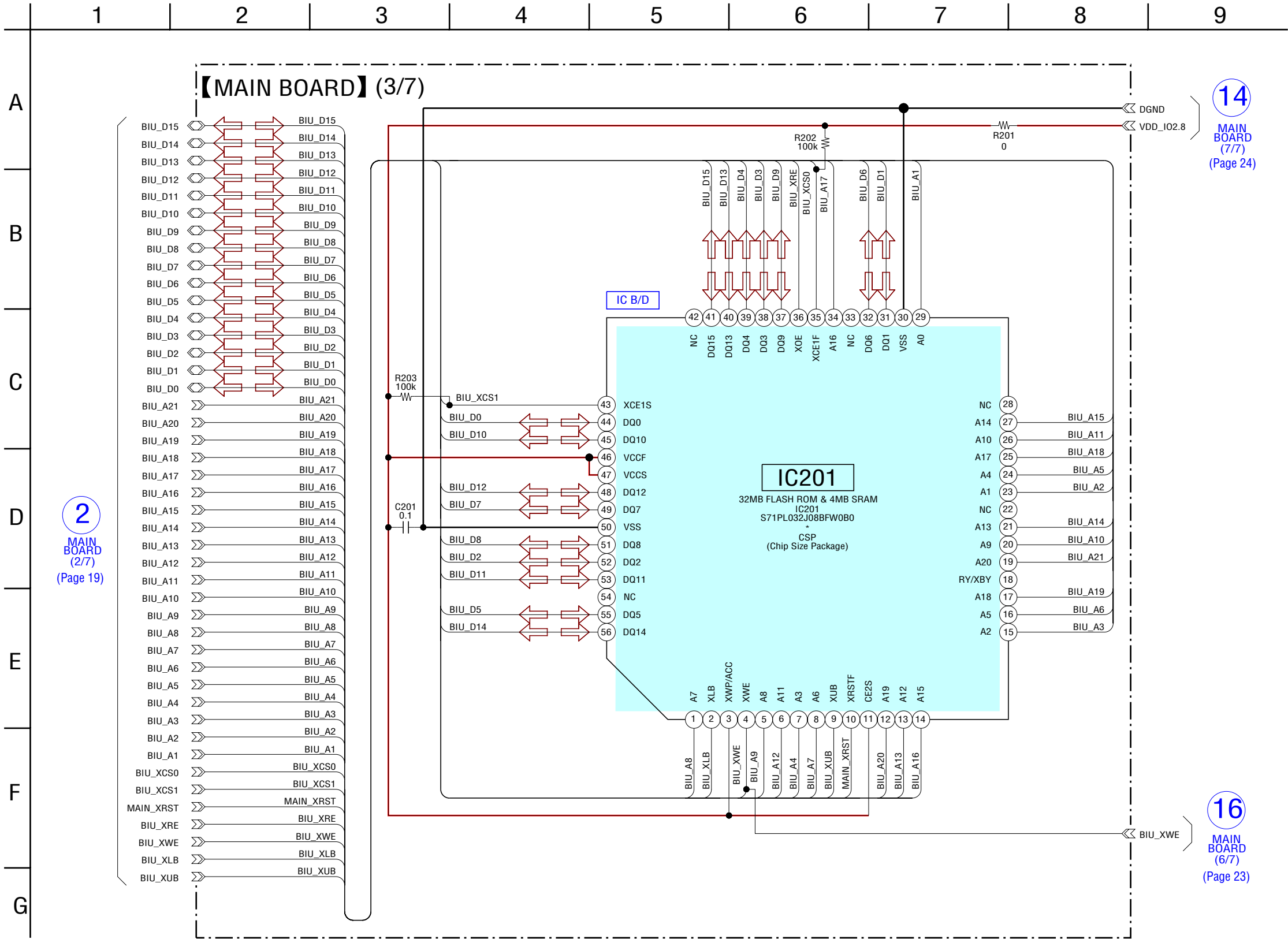
Note: When IC101 on the MAIN board are damaged, exchange the new MAIN board for the MAIN board which IC damaged.

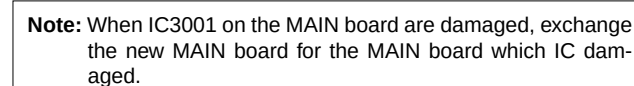
Note: When the MAIN board is replaced, format it according to the "NOTE OF MAIN BOARD REPLACING" (refer to page 3) of the servicing notes.

5-5. SCHEMATIC DIAGRAM – MAIN Board (2/7) –

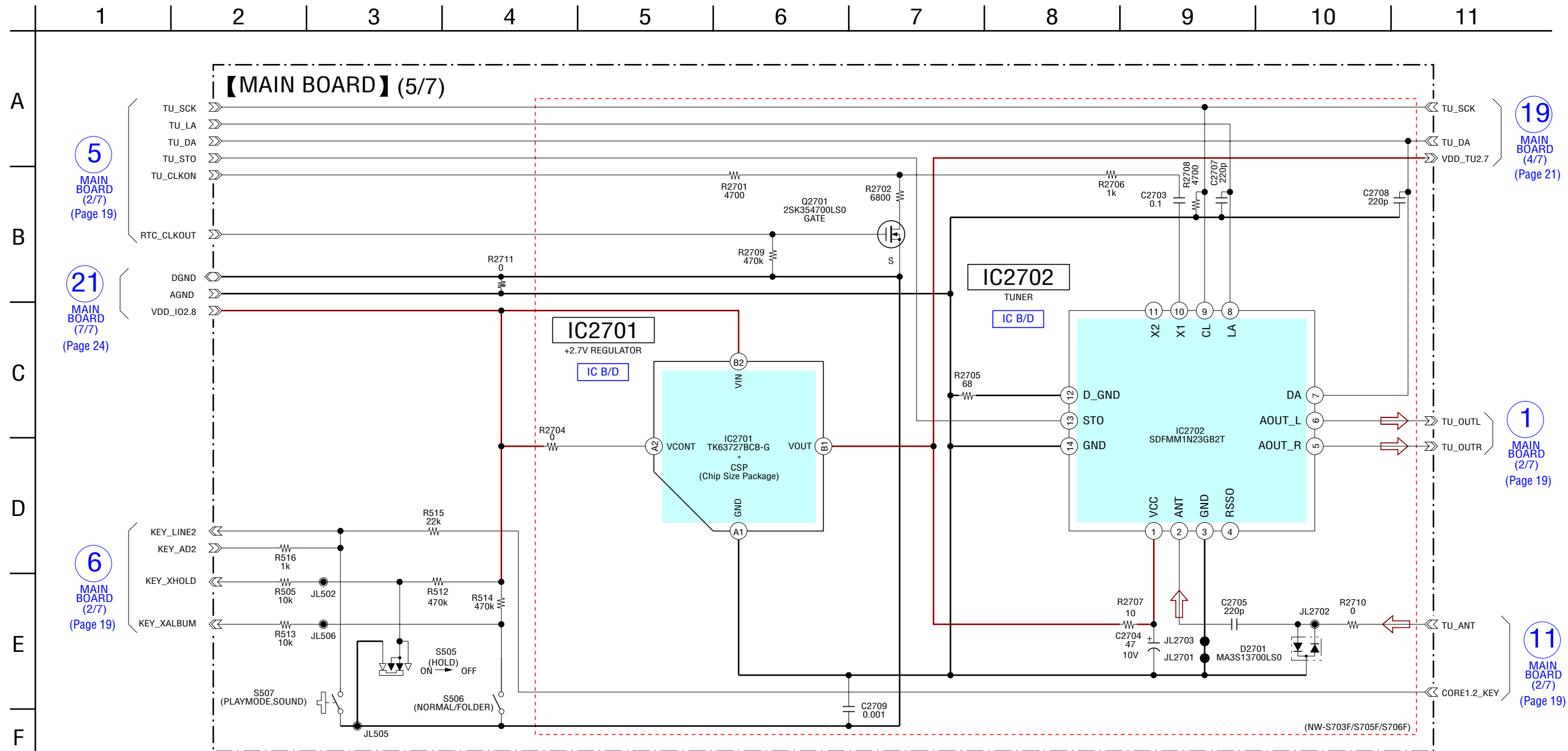


5-6. SCHEMATIC DIAGRAM – MAIN Board (3/7) – • See page 29 for IC Block Diagrams.



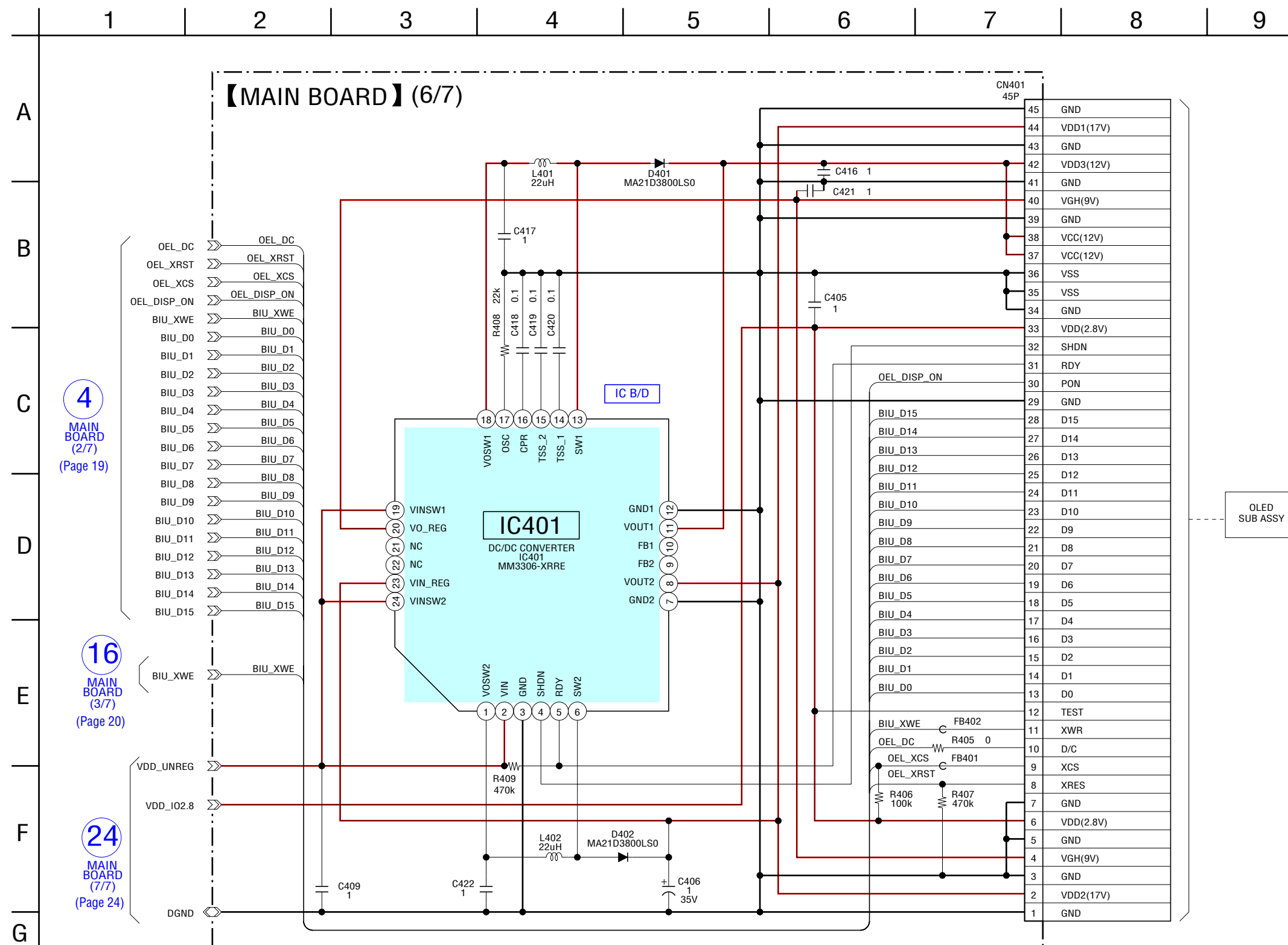


5-8. SCHEMATIC DIAGRAM – MAIN Board (5/7) – • See page 29 for IC Block Diagrams.



Note: When the MAIN board is replaced, format it according to the "NOTE OF MAIN BOARD REPLACING" (refer to page 3) of the servicing notes.

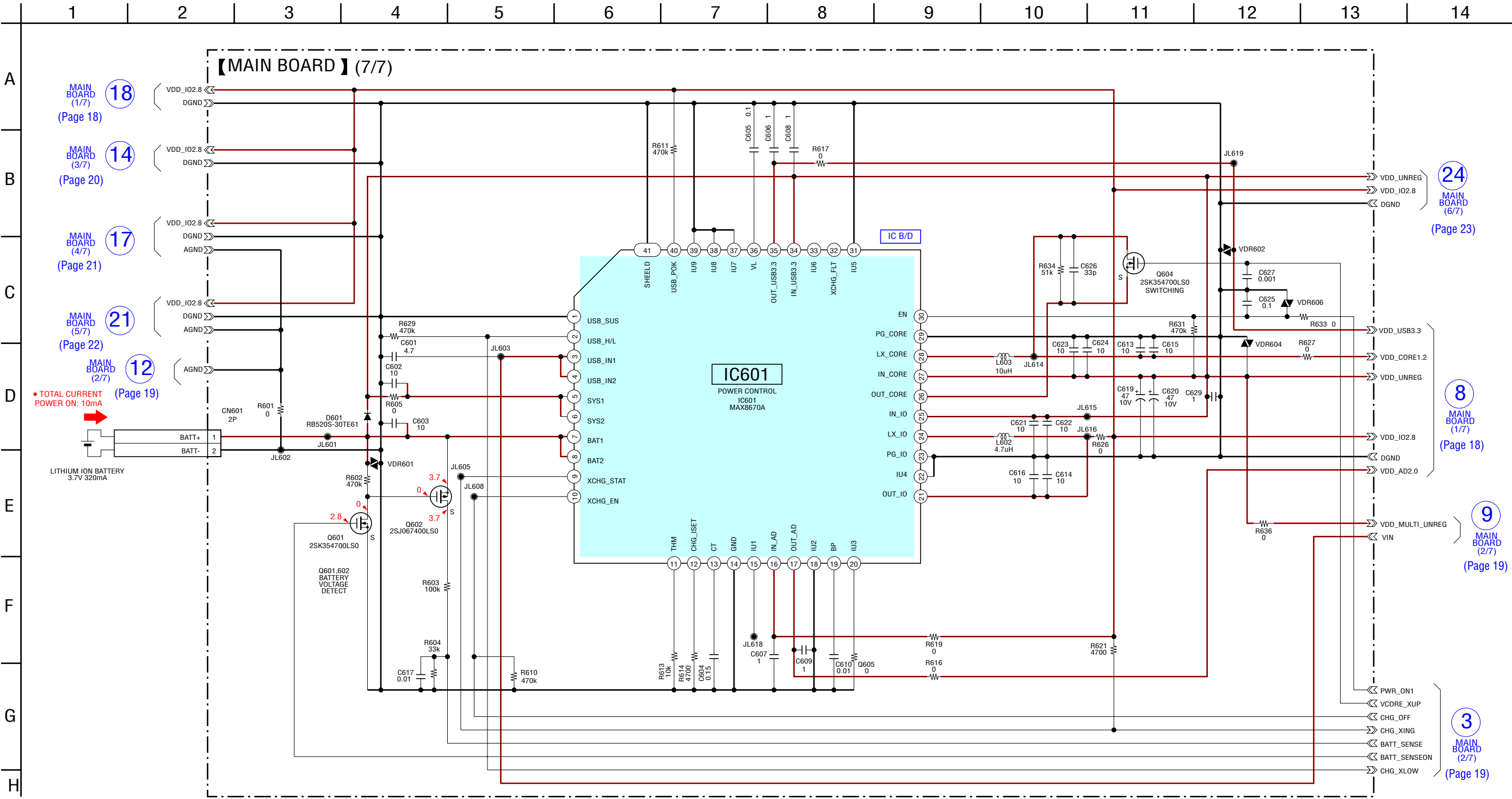
5-9. SCHEMATIC DIAGRAM – MAIN Board (6/7) – • See page 29 for IC Block Diagrams.



Note: When the MAIN board is replaced, format it according to the "NOTE OF MAIN BOARD REPLACING" (refer to page 3) of the servicing notes.

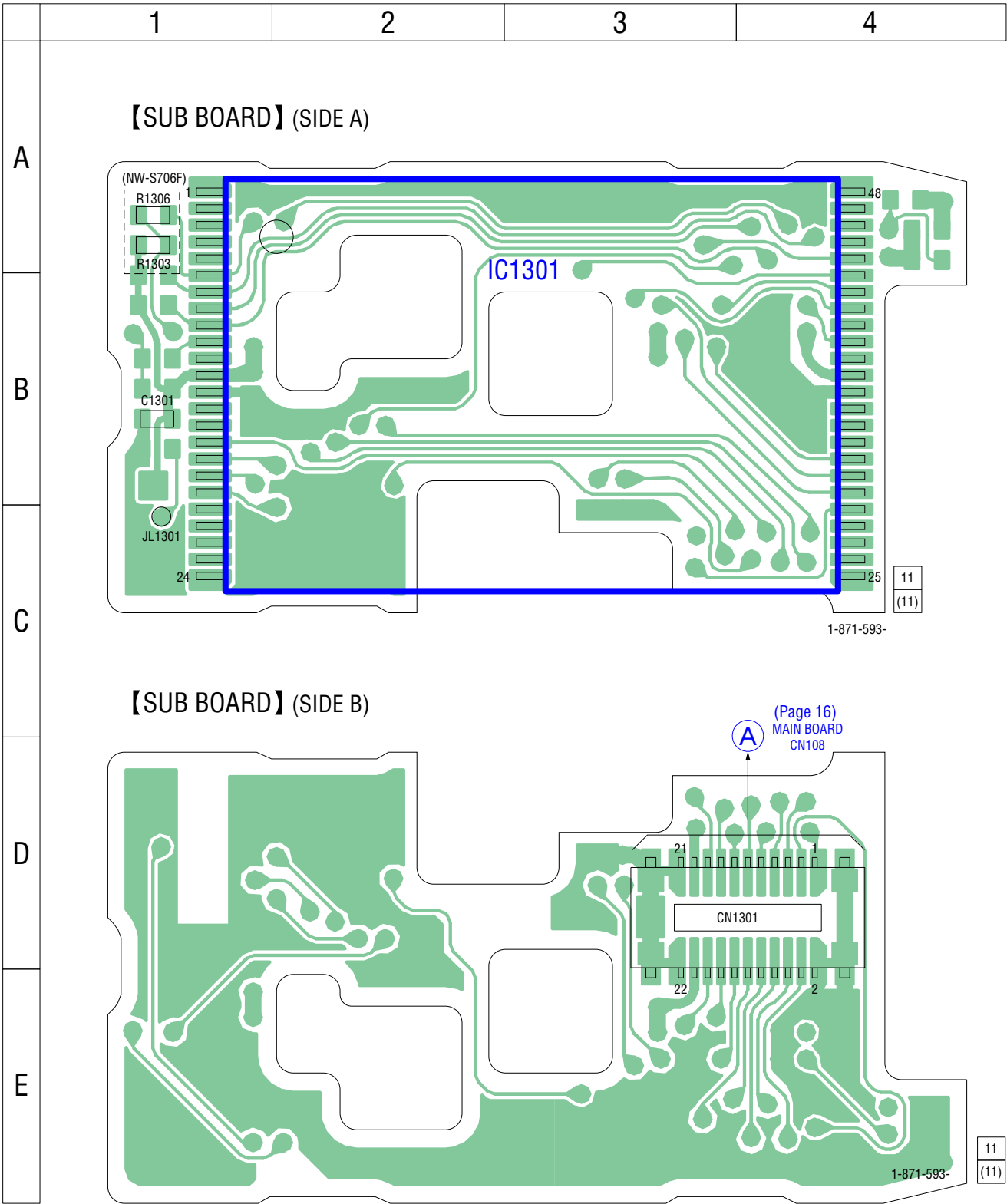
Note: When IC401 on the MAIN board are damaged, exchange the new MAIN board for the MAIN board which IC damaged.

5-10. SCHEMATIC DIAGRAM – MAIN Board (7/7) – • See page 29 for IC Block Diagrams.

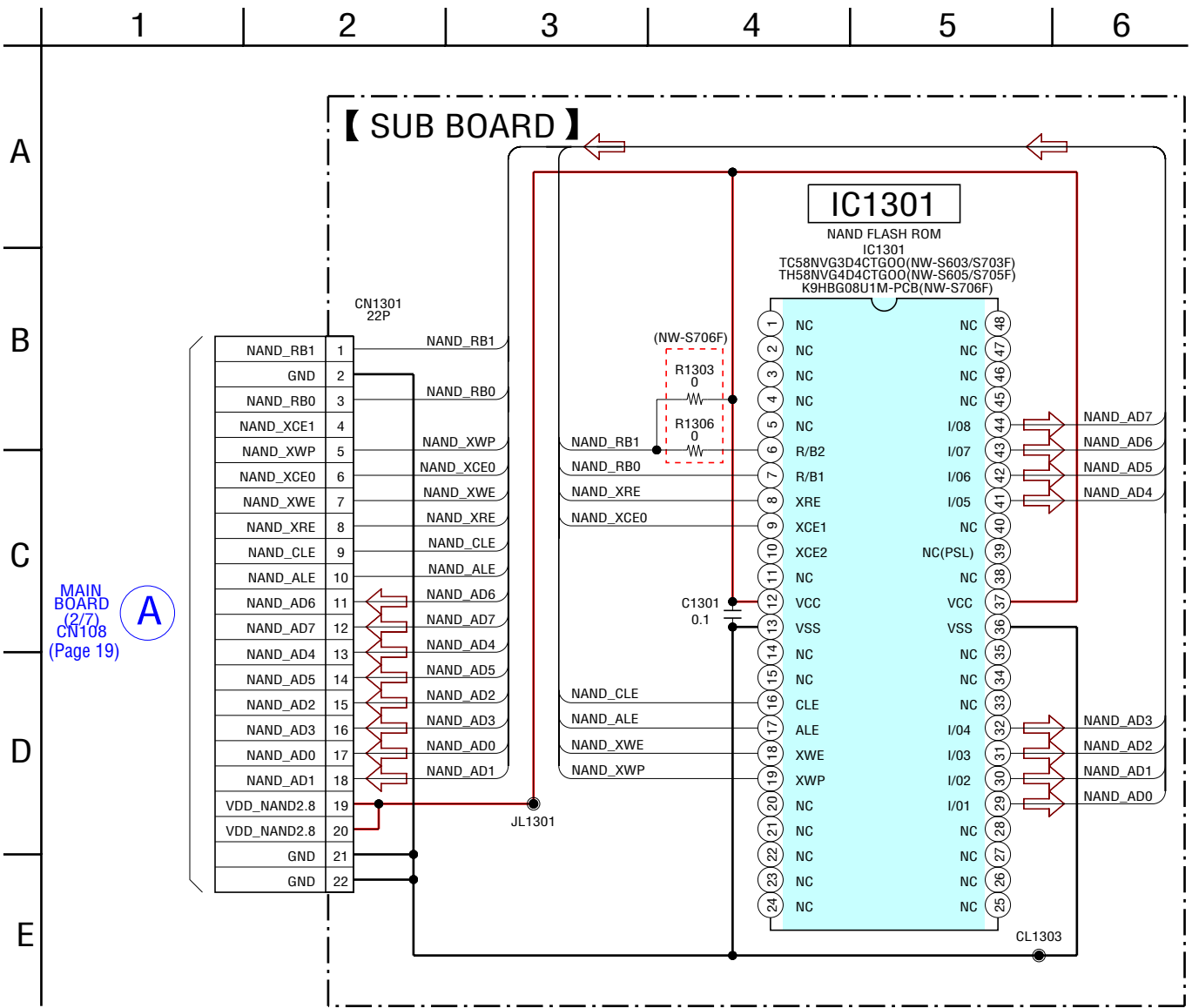


Note: When the MAIN board is replaced, format it according to the “NOTE OF MAIN BOARD REPLACING” (refer to page 3) of the servicing notes.

5-11. PRINTED WIRING BOARD – SUB Board –  : Uses unleaded solder.

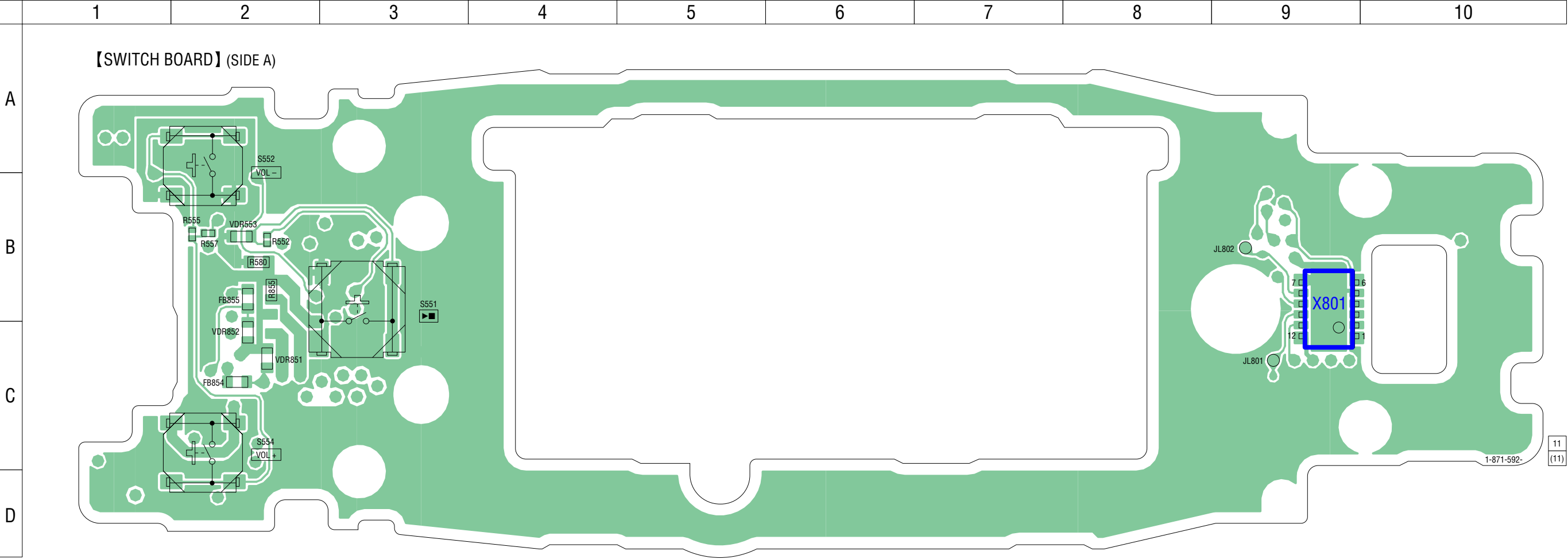


5-12. SCHEMATIC DIAGRAM – SUB Board –

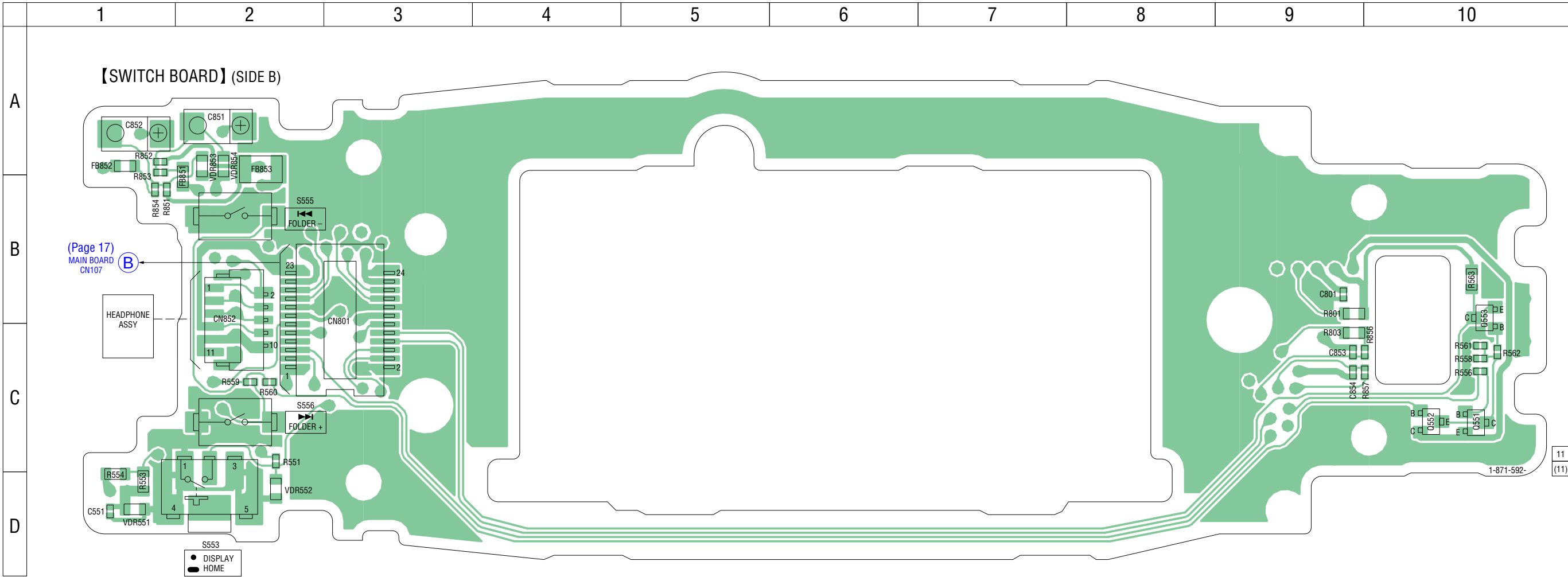


Note: When IC1301 on the SUB board is damaged, exchange the new SUB board for the SUB board (included in MAIN board) which IC damaged.

5-13. PRINTED WIRING BOARD – SWITCH Board (Side A) –  : Uses unleaded solder.



5-14. PRINTED WIRING BOARD – SWITCH Board (Side B) –  : Uses unleaded solder.

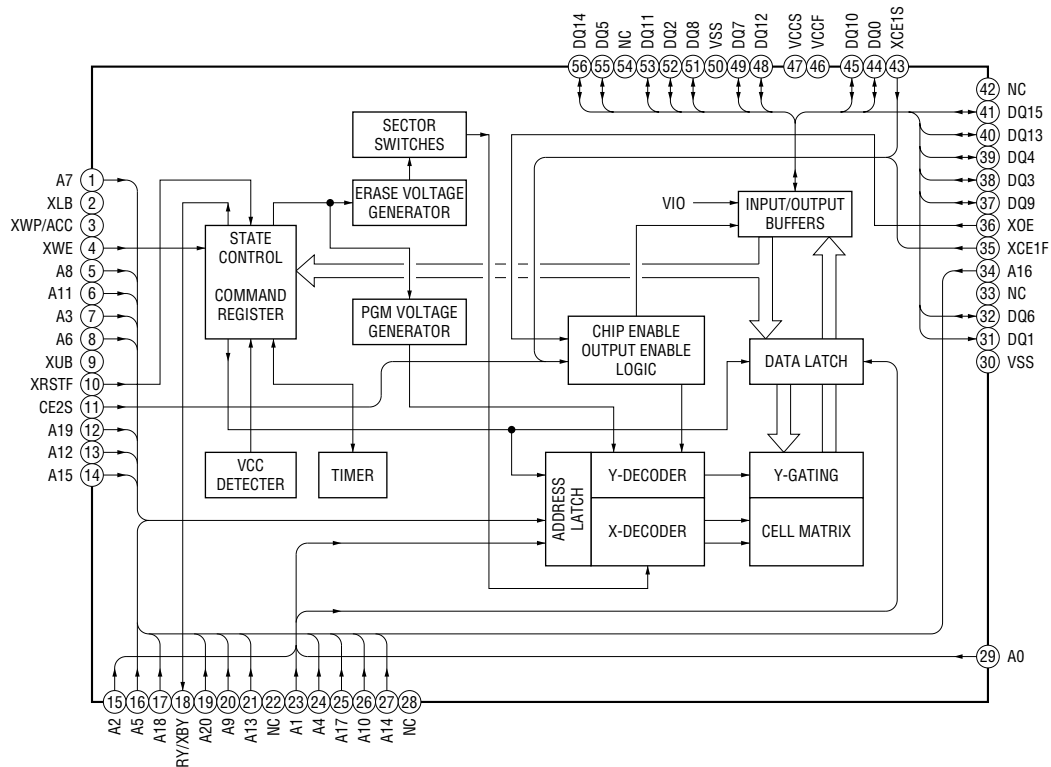


28 28

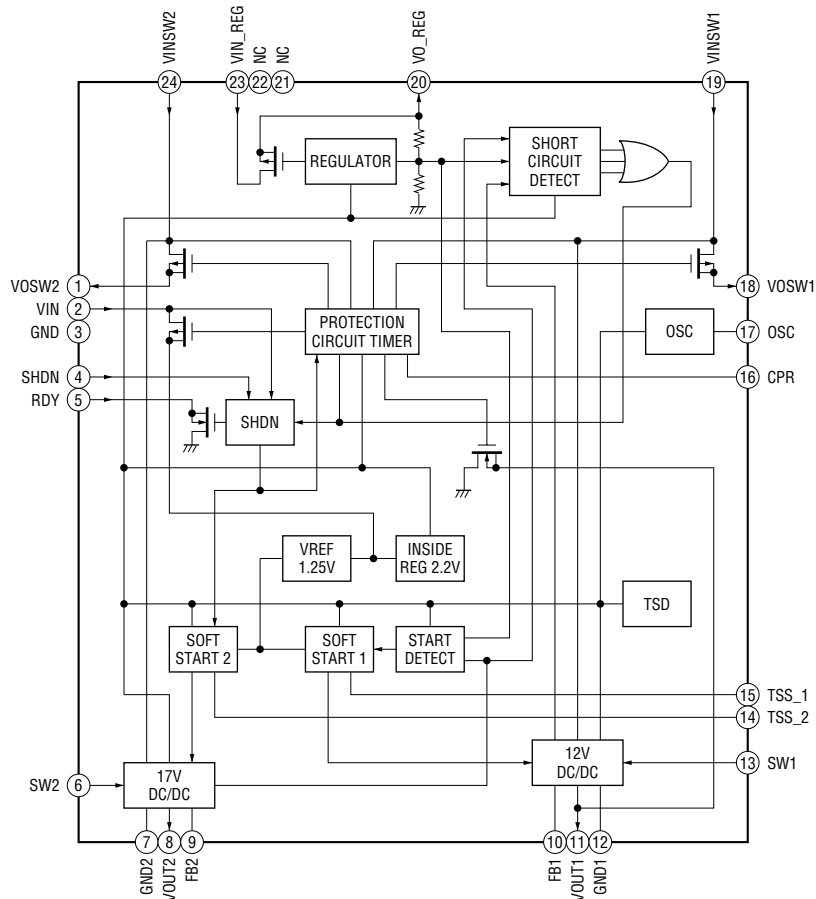


• IC Block Diagrams
– MAIN Board –

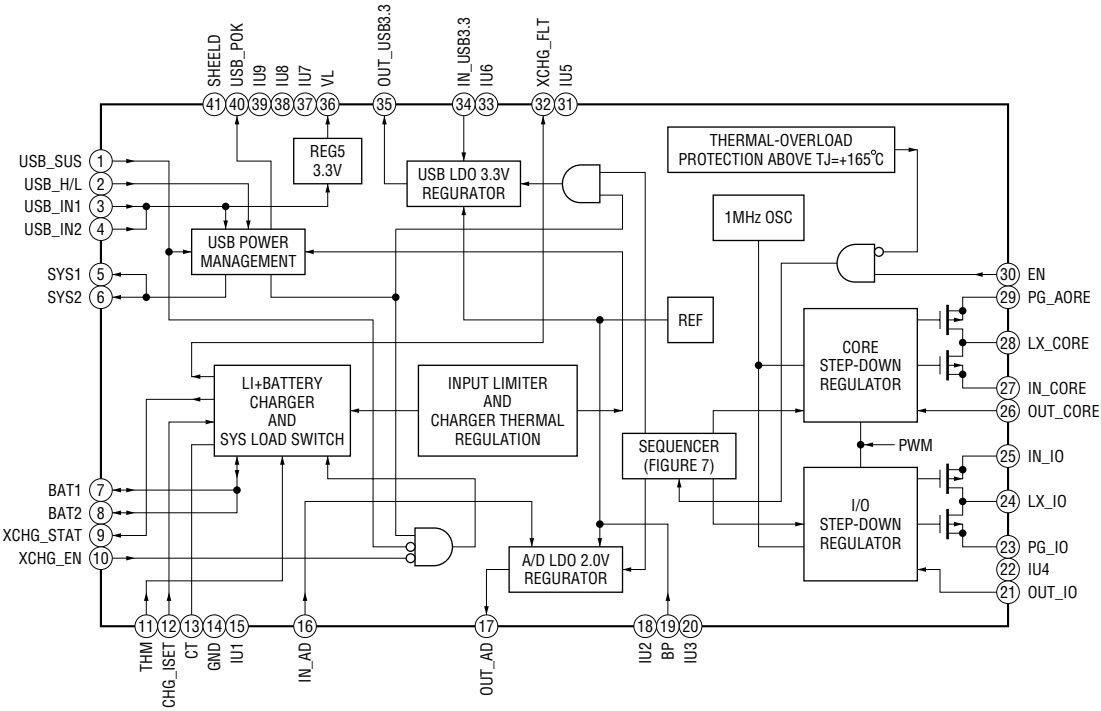
IC201 S71PL032J08BFW0B0



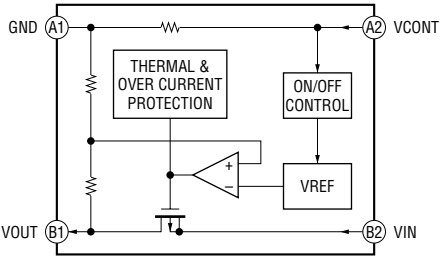
IC401 MM3306-XRRE



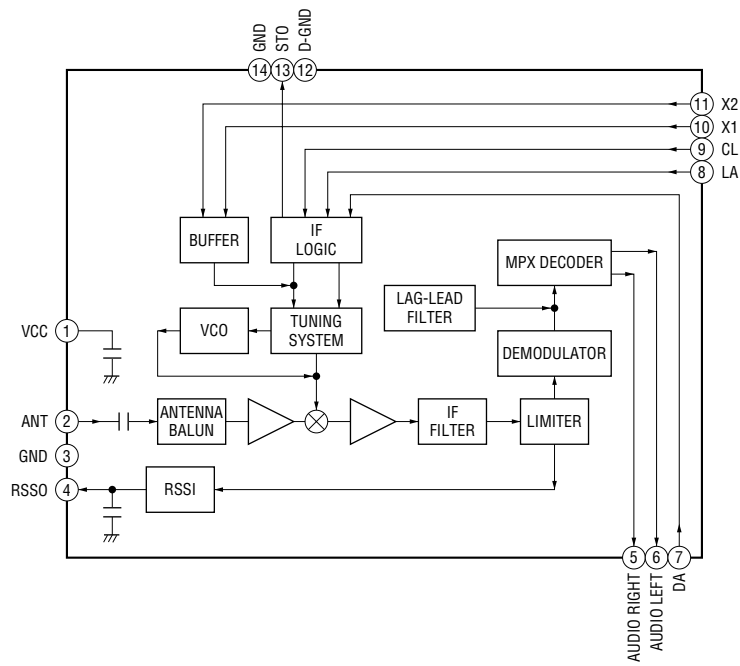
IC601 MAX8670A



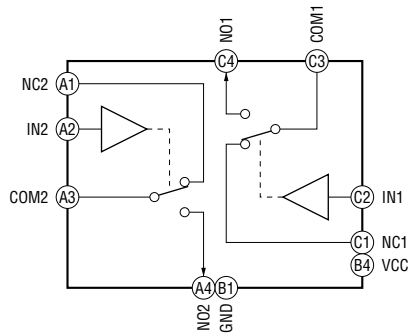
IC2701 TK63727BCB-G



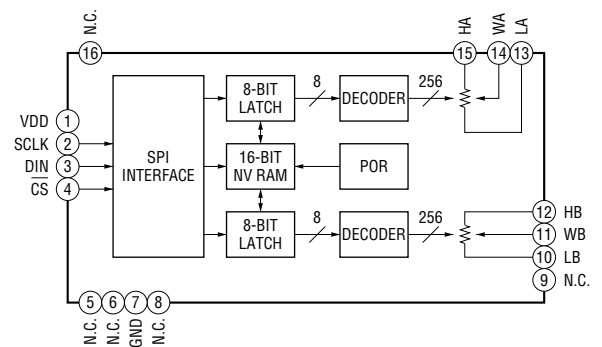
IC2702 SDFMM1N23GB2T



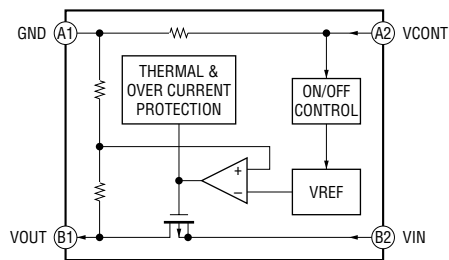
IC3001 NLAS4717EPFCT1G



IC3004 MAX5489ETE

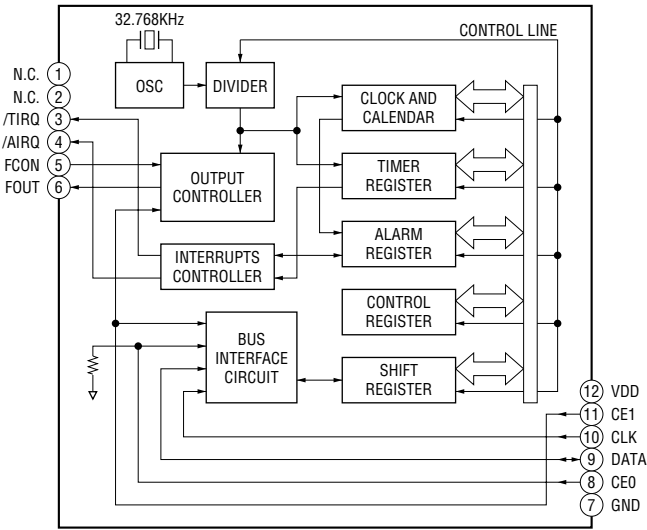


IC3005, 3007 TK63726BCB-G



- SWITCH Board -

X801 RX-4574LC



• IC Pin Function Description
MAIN BOARD IC101 CXD5090B1-003GG (CPU)

Pin No.	Pin Name	I/O	Description
1 to 8	NAD0/GPIOC0 to NAD7/GPIOC7	I	Data signal input from the NAND flash ROM
9	NCLE/GPIOC8	O	Command latch enable signal output to the NAND flash ROM
10	NALE/GPIOC9	O	Address latch enable signal output to the NAND flash ROM
11	NCE0/GPIOC10	O	Chip enable signal output to the NAND flash ROM
12	NCE1/GPIOC11	O	Chip enable signal output terminal Not used
13	NCE2/GPIOC12	O	Battery power supply voltage detection ON/OFF control signal output terminal
14	NCE3/GPIOC13	I	USB power supply voltage detection signal input terminal
15	NRE/GPIOC14	O	Read signal output to the NAND flash ROM
16	NWE/GPIOC15	O	Write signal output to the NAND flash ROM
17	NWP/GPIOC16	O	Write protection signal output to the NAND flash ROM
18, 19	NRB0/GPIOC17, NRB1/GPIOC18	O	Read/Busy signal output to the NAND flash ROM
20, 21	NRB2/GPIOC19, NRB3/GPIOC20	O	Read/Busy signal output terminal Not used
22	DVS	-	Ground terminal
23, 24	DVDIO2	-	Power supply terminal
25	DVS	-	Ground terminal
26	DVDK2	-	Power supply terminal
27	DVS	-	Ground terminal
28	CRST2	I	Reset signal input terminal Not used
29	RST2OUT	O	Reset signal output to the power control IC
30	RST2VDD	-	Power supply terminal
31	T_ADINL	-	Not used
32	HPVDD	-	Power supply terminal
33	HPOUTL	O	Internal D/A converter audio signal output terminal (headphone L-ch)
34	PVDD	-	Power supply terminal
35	PGND	-	Ground terminal
36	HPOUTR	O	Internal D/A converter audio signal output terminal (headphone R-ch)
37	HPGND	-	Ground terminal
38	GPION0/INT8	I	System wake up signal input by any key is pressed
39	GPION1/INT9	I	Key input terminal (A/D input) (hold switch)
40	GPION2/INT10	I	Key input terminal (A/D input) (normal/folder key)
41	GPION3/INT11	I	Key input terminal (A/D input) (PLAY, STOP key)
42	TDI	I	Serial data input terminal (for JTAG) Not used
43	TMS	I	Test mode control signal input terminal (for JTAG) Not used
44	TCK	I	Serial data transfer clock signal input terminal (for JTAG) Not used
45	TDO	O	Serial data transfer clock signal output terminal (for JTAG) Not used
46	TRST	I	Reset signal input terminal (for JTAG) Not used
47	TEST	I	Boot control signal input terminal Not used
48	EVA	I	EVA/FLASH modes selection signal input terminal Not used
49	TREQA	I	Request signal input terminal (for JTAG) Not used
50	TACK	O	Request signal output terminal (for JTAG) Not used
51	SCL/GPIOK0	O	Muting ON/OFF control signal output terminal
52	SDA/GPIOK1	I/O	Serial data input/output terminal Not used
53	EC0/INT6/GPIOL0	I	Model setting terminal Not used

Pin No.	Pin Name	I/O	Description
54	T1/GPIOL1	O	LINE amplifier power supply ON/OFF control signal output terminal
55	EC2/INT7/ GPIOL2	I	Headphone detection signal input terminal
56	T3/GPIOL3	O	Power supply ON/OFF control signal output terminal for the NAND flash ROM
57	BEEP/GPIOL4	O	Beep signal output terminal
58	PWM/SUSPEND/ GPIOL5	O	Power supply ON/OFF control signal output terminal for the organic EL indicator module
59	DVS	-	Ground terminal
60, 61	DVDIO2	-	Power supply terminal
62	DVS	-	Ground terminal
63	DVDK2	-	Power supply terminal
64	DVS	-	Ground terminal
65	BEEPEN	I	Beep signal input terminal
66	HPINL	I	Internal D/A converter audio signal input terminal (headphone L-ch)
67	HPLININL	I	Internal D/A converter audio signal input terminal (microphone L-ch)
68	HPINR	I	Internal D/A converter audio signal input terminal (headphone R-ch)
69	HPLININR	I	Internal D/A converter audio signal input terminal (microphone L-ch)
70	AVDLPF	-	Power supply terminal (for LPF)
71	VREFL	O	Reference voltage output terminal for the headphone amplifier (L-ch)
72	AOUTL	O	Internal audio chip audio signal output terminal (WM-port L-ch)
73	AOUTR	O	Internal audio chip audio signal output terminal (WM-port R-ch)
74	VREFR	O	Reference voltage output terminal for the headphone amplifier R-ch)
75	AVSLPF	-	Ground terminal (for LPF)
76	AVDADC	-	Power supply terminal
77, 78	AN0, AN1	I	Key input terminal (A/D input)
79 to 81	AN2 to AN4	-	Not used
82	AN5	I	Terminal for peripherals distinction of WM-port
83	AN6	I	Internal A/D converter analog signal input terminal Not used
84	AN7	I	Battery power supply voltage detection signal input terminal
85	AVSADC	-	Ground terminal
86	SDCLK	O	Not used
87	SDCMD/INT1/ GPIOF0	I	Wake up signal input from the WM-port
88	SDDAT0/DREQ/ INT2/GPIOF1	O	Chip enable signal output to the real time clock
89	SDDAT1/DACK/ INT3/GPIOF2	I	DC power supply voltage detection signal input terminal
90	SDDAT2/INT4/ GPIOF3	O	Control signal output to the organic EL indicator module
91	SDDAT3/INT5/ GPIOF4	O	Reset signal output to the organic EL indicator module
92	DVS	-	Ground terminal
93	DVDIO2	-	Power supply terminal
94	DVDK2	-	Power supply terminal
95	DVS	-	Ground terminal
96	DVDIO2	-	Power supply terminal
97	DVS	-	Ground terminal
98	MSBS/INT0/ GPIOE0	O	Not used

Pin No.	Pin Name	I/O	Description
99	MSSCLK	O	Not used
100	MSDIO0/ GPIOE1	O	Not used
101 to 103	MSDIO1/ GPIOE2 to MSDIO3/ GPIOE4	O	Battery charge control signal output to the power control IC
104	MSINS/GPIOE5	I	Not used
105	MCSEL	I	Not used
106	CBIAS	-	Not used
107	CCOM	-	Not used
108	HPREF	-	Not used
109	CSOFT	-	Not used
110	TESTAUD	-	Not used
111	DGND	-	Ground terminal
112	DVDD	-	Power supply terminal
113	ARST	O	System reset signal output terminal
114	AVDOS1	-	Power supply terminal
115	EXTAL	I	Main system clock input terminal (45.1584 MHz)
116	XTAL	O	Main system clock output terminal (45.1584 MHz)
117	AVSOSC	-	Ground terminal
118	TEX	I	Sub system clock input terminal (12 MHz)
119	TX	O	Sub system clock output terminal (12 MHz)
120	AVDOS2	-	Power supply terminal
121	AVSPLL	-	Ground terminal
122	AVDPLL	-	Power supply terminal
123	AVDUSB	-	Power supply terminal
124	AVSUSB	-	Ground terminal
125	DP	I/O	Two-way data bus for USB communication (+)
126	DN	I/O	Two-way data bus for USB communication (-)
127	VBUS/GPIOD0	I	USB power supply voltage detection signal input terminal
128	TxD0/GPIOI0	O	Not used
129	RxD0/GPIOI1	I	Not used
130	TxD1/GPIOJ0	O	Serial data output to the WM-port
131	RxD1/GPIOJ1	I	Serial data input from the WM-port
132	SI0/GPIOG1	I	Status signal input from the tuner
133	SO0/GPIOG0	O	Serial data output to the tuner and gain control
134	SCK0	O	Serial data transfer clock signal output to the tuner and gain control
135	SCS0/GPIOG2	O	Serial latch pulse signal output to the tuner
136	SI1/GPIOH1	I	Serial data input from the real time clock
137	SO1/GPIOH0	O	Serial data output to the real time clock
138	SCK1	O	Serial data transfer clock signal output to the real time clock
139	SCS1/GPIOH2	I	Serial data transfer clock signal input terminal Not used
140	DVS	-	Ground terminal
141, 142	DVDIO1	-	Power supply terminal
143	DVS	-	Ground terminal
144	DVDK1	-	Power supply terminal
145	DVS	-	Ground terminal

Pin No.	Pin Name	I/O	Description
146	FS256	O	Not used
147	LRCK/WS	I	Not used
148	BCK/SCK	I	Not used
149	ADDT/SDI/ GPIOM0	I	Not used
150	DADT/SDO/ GPIOM1	O	Not used
151	MUTFGL/ GPIOM2	O	Chip enable signal output to the gain control
152	MUTFGR/ GPIOM3	O	Model setting terminal
153	DVS	-	Ground terminal
154, 155	DVDIO2	-	Power supply terminal
156	DVS	-	Ground terminal
157	DVDK2	-	Power supply terminal
158	DVS	-	Ground terminal
159	NBOOT	I	Not used
160	A0/GPIOA0	O	Power supply ON/OFF control signal output terminal for the noise canceller section
161 to 176	A1 to A16	O	Address signal output to the flash ROM, SRAM
177	AGND	-	Ground terminal
178	ADVREF	-	Reference voltage terminal
179	AVDD	-	Power supply terminal
180	SUBGND	-	Not used
181	MICOUTL	O	Microphone signal output terminal (L-ch) Not used
182	MICOUTR	O	Microphone signal output terminal (R-ch) Not used
183	MICINL	I	Audio signal input terminal (tuner L-ch) from the tuner
184	MLININL	I	Audio signal input terminal (L-ch) from the WM-port
185	MICVREF	-	Reference voltage terminal
186	MICINR	I	Audio signal input terminal (tuner R-ch) from the tuner
187	MLININR	I	Audio signal input terminal (R-ch) from the WM-port
188	T_ADINR	-	Not used
189	DVS	-	Ground terminal
190, 191	DVDIO2	-	Power supply terminal
192	DVS	-	Ground terminal
193	DVDK2	-	Power supply terminal
194	DVS	-	Ground terminal
195 to 199	A17 to A21	O	Address signal output to the flash ROM, SRAM
200	A22	O	Address signal output terminal Not used
201	A23/GPIOA1	O	Address signal output terminal Not used
202	A24/GPIOA2	I	Model setting terminal Not used
203	A25/GPIOA3	I	Model setting terminal Not used
204 to 208	D0 to D4	I/O	Two-way data bus with the flash ROM, SRAM, and serial data output to the organic EL indicator module
209 to 211	D5/GPIOA9 to D7/GPIOA11	I/O	Two-way data bus with the flash ROM, SRAM, and serial data output to the organic EL indicator module
212	DVS	-	Ground terminal
213, 214	DVDIO2	-	Power supply terminal
215	DVS	-	Ground terminal

Pin No.	Pin Name	I/O	Description
216	DVDK2	-	Power supply terminal
217	DVS	-	Ground terminal
218	RTCVDD	-	Power supply terminal
219	RTCREGO	O	Power supply voltage output (+2.8V) to the real time clock
220	RTCVREF	-	Reference voltage terminal Not used
221	RTCGND	-	Ground terminal
222 to 229	D8/GPIOA12 to D15/GPIOA19	I/O	Two-way data bus with the flash ROM, SRAM
230	WAIT/GPIOA20	O	Power supply ON/OFF control signal output to the power supply section
231, 232	CS0/GPIOA21, CS1/GPIOA22	O	Chip select signal output to the flash ROM, SRAM
233	CS2/GPIOA23	O	Chip select signal output to the organic EL indicator module
234	CS3/GPIOA24	O	Chip select signal output terminal Not used
235	CS4/GPIOA25	O	Clock signal output to the tuner
236	RE/GPIOA26	O	Read signal output to the flash ROM, SRAM
237	WE/GPIOA27	O	Write signal output to the flash ROM, SRAM
238	LB/GPIOA28	O	Lower byte access strobe signal output to the flash ROM, SRAM
239	UB/GPIOA29	O	Upper byte access strobe signal output to the flash ROM, SRAM
240	DVDK2	-	Power supply terminal
241, 242	DVS	-	Ground terminal
243, 244	DVDIO2	-	Power supply terminal
245	DVS	-	Ground terminal
246	INTR	I	Interrupt status input from the real time clock
247	RTCVSB	-	Power supply terminal
248	OSCIN	I	Clock signal input (32.768 kHz) from the real time clock
249	OSCOU	O	Clock signal output terminal (32.768 kHz) Not used
250	CLK32KOUT	O	Clock signal output terminal Not used
251	DSUBGND	-	Ground terminal
252	DRAIN	O	Power supply voltage output (+2.8V) to the NAND flash ROM
253	DVS	-	Ground terminal
254	DVDIO0	-	Power supply terminal
255	DVDK0	-	Power supply terminal
256	DVS	-	Ground terminal
257	SOURCE	I	Power supply terminal
258	GATE	I	Power supply ON/OFF control signal input terminal for the NAND flash ROM
259	CRST1A	I	Key input terminal (A/D input) (reset key)
260	CRST1B	I	Reset signal input terminal Not used
261	RST1VDD	-	Power supply terminal
262	RST1AOUT	O	System reset signal output terminal
263	RST1BOUT	O	Reset signal output terminal Not used
264	RSTGND	-	Ground terminal
265	RST	O	System reset signal output terminal
266 to 273	NC	-	Not used

SECTION 6
EXPLODED VIEWS

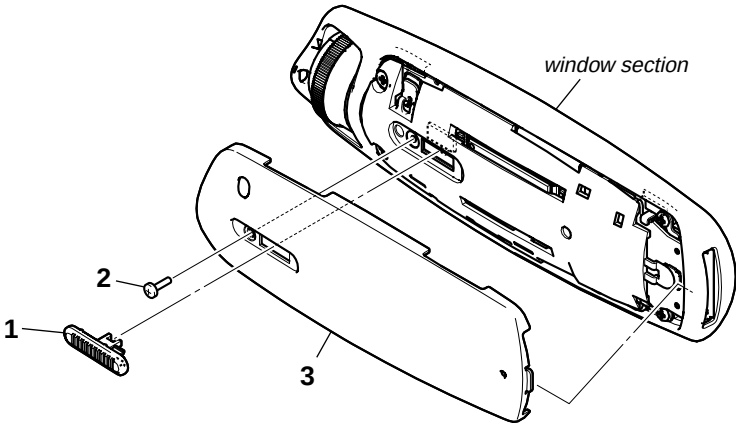
- NOTE:**
- XX and -X mean standardized parts, so they may have some difference from the original one.
 - Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)
 ↑ ↑
 Parts Color Cabinet's Color

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

- Abbreviation
AUS : Australian model
CE7 : AEP and UK models
CEV : East European model
CH : Chinese model
CEW : French model
JE : Tourist model
KR : Korean model
MX : Mexican model

6-1. COVER (REAR) ASSY SECTION (NW-S603/S605)

Note: The illustration sees the set from the rear.

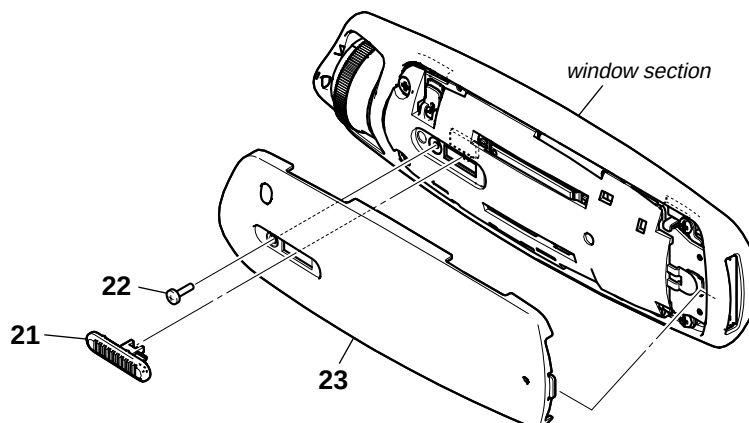


Ref. No.	Part No.	Description	Remark
1	2-697-459-01	KNOB (HOLD)	
2	3-252-823-01	SCREW (B1.4)	
3	X-2159-628-1	COVER (REAR (L)) ASSY (BLUE)	(NW-S603: KR)
3	X-2159-636-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S603: CND)
3	X-2159-637-1	COVER (REAR (L)) ASSY (BLUE)	(NW-S603: CND)
3	X-2159-638-1	COVER (REAR (P)) ASSY (PINK)	(NW-S603: CND)
3	X-2159-639-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S603: CE7)
3	X-2159-640-1	COVER (REAR (L)) ASSY (BLUE)	(NW-S603: CE7)
3	X-2159-641-1	COVER (REAR (P)) ASSY (PINK)	(NW-S603: CE7)
3	X-2159-645-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S603: CEW)

Ref. No.	Part No.	Description	Remark
3	X-2159-646-1	COVER (REAR (L)) ASSY (BLUE)	(NW-S603: CEW)
3	X-2159-655-1	COVER (REAR (L)) ASSY (BLUE)	(NW-S603: CH)
3	X-2159-675-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S605: CE7)
3	X-2159-676-1	COVER (REAR (L)) ASSY (BLUE)	(NW-S605: CE7)
3	X-2159-677-1	COVER (REAR (P)) ASSY (PINK)	(NW-S605: CE7)
3	X-2159-681-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S605: CEW)
3	X-2159-690-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S605: CH)

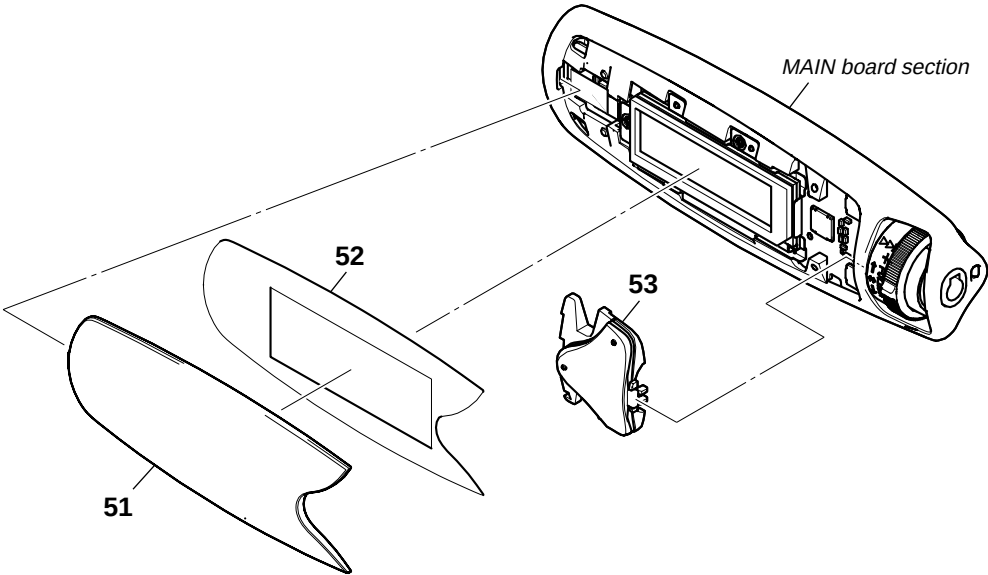
6-2. COVER (REAR) ASSY SECTION (NW-S703F/S705F/S706F)

Note: The illustration sees the set from the rear.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
21	2-697-459-01	KNOB (HOLD)		23	X-2159-536-1	COVER (REAR (V)) ASSY (VIOLET)	
22	3-252-823-01	SCREW (B1.4)				(NW-S705F: E, AUS, JE)	
23	X-2159-483-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S703F: KR)	23	X-2159-539-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S705F: US)
23	X-2159-485-1	COVER (REAR (N)) ASSY (GOLD)	(NW-S703F: KR)	23	X-2159-543-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S705F: CND)
23	X-2159-487-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S703F: E, AUS, JE)	23	X-2159-546-1	COVER (REAR (P)) ASSY (PINK)	(NW-S705F: CND)
23	X-2159-489-1	COVER (REAR (N)) ASSY (GOLD)	(NW-S703F: E, AUS, JE)	23	X-2159-547-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S705F: CE7)
23	X-2159-492-1	COVER (REAR (V)) ASSY (VIOLET)	(NW-S703F: US)	23	X-2159-548-1	COVER (REAR (V)) ASSY (VIOLET)	(NW-S705F: CE7)
23	X-2159-494-1	COVER (REAR (P)) ASSY (PINK)	(NW-S703F: US)	23	X-2159-549-1	COVER (REAR (N)) ASSY (GOLD)	(NW-S705F: CE7)
23	X-2159-499-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S703F: CE7)	23	X-2159-550-1	COVER (REAR (P)) ASSY (PINK)	(NW-S705F: CE7)
23	X-2159-500-1	COVER (REAR (V)) ASSY (VIOLET)	(NW-S703F: CE7)	23	X-2159-563-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S705F: CEV)
23	X-2159-501-1	COVER (REAR (N)) ASSY (GOLD)	(NW-S703F: CE7)	23	X-2159-567-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S705F: CH)
23	X-2159-502-1	COVER (REAR (P)) ASSY (PINK)	(NW-S703F: CE7)	23	X-2159-572-1	COVER (REAR (V)) ASSY (VIOLET)	(NW-S705F: MX)
23	X-2159-507-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S703F: CEW)	23	X-2159-574-1	COVER (REAR (P)) ASSY (PINK)	(NW-S705F: MX)
23	X-2159-508-1	COVER (REAR (V)) ASSY (VIOLET)	(NW-S703F: CEW)	23	X-2159-580-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S706F: KR)
23	X-2159-515-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S703F: CEV)	23	X-2159-584-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S706F: E, AUS, JE)
23	X-2159-516-1	COVER (REAR (V)) ASSY (VIOLET)	(NW-S703F: CEV)	23	X-2159-592-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S706F: CND)
23	X-2159-524-1	COVER (REAR (V)) ASSY (VIOLET)	(NW-S703F: MX)	23	X-2159-596-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S706F: CE7)
23	X-2159-526-1	COVER (REAR (P)) ASSY (PINK)	(NW-S703F: MX)	23	X-2159-598-1	COVER (REAR (N)) ASSY (GOLD)	(NW-S706F: CE7)
23	X-2159-531-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S705F: KR)	23	X-2159-612-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S706F: CEV)
23	X-2159-532-1	COVER (REAR (V)) ASSY (VIOLET)	(NW-S705F: KR)	23	X-2159-621-1	COVER (REAR (V)) ASSY (VIOLET)	(NW-S706F: MX)
23	X-2159-535-1	COVER (REAR (B)) ASSY (BLACK)	(NW-S705F: E, AUS, JE)				

6-3. WINDOW SECTION

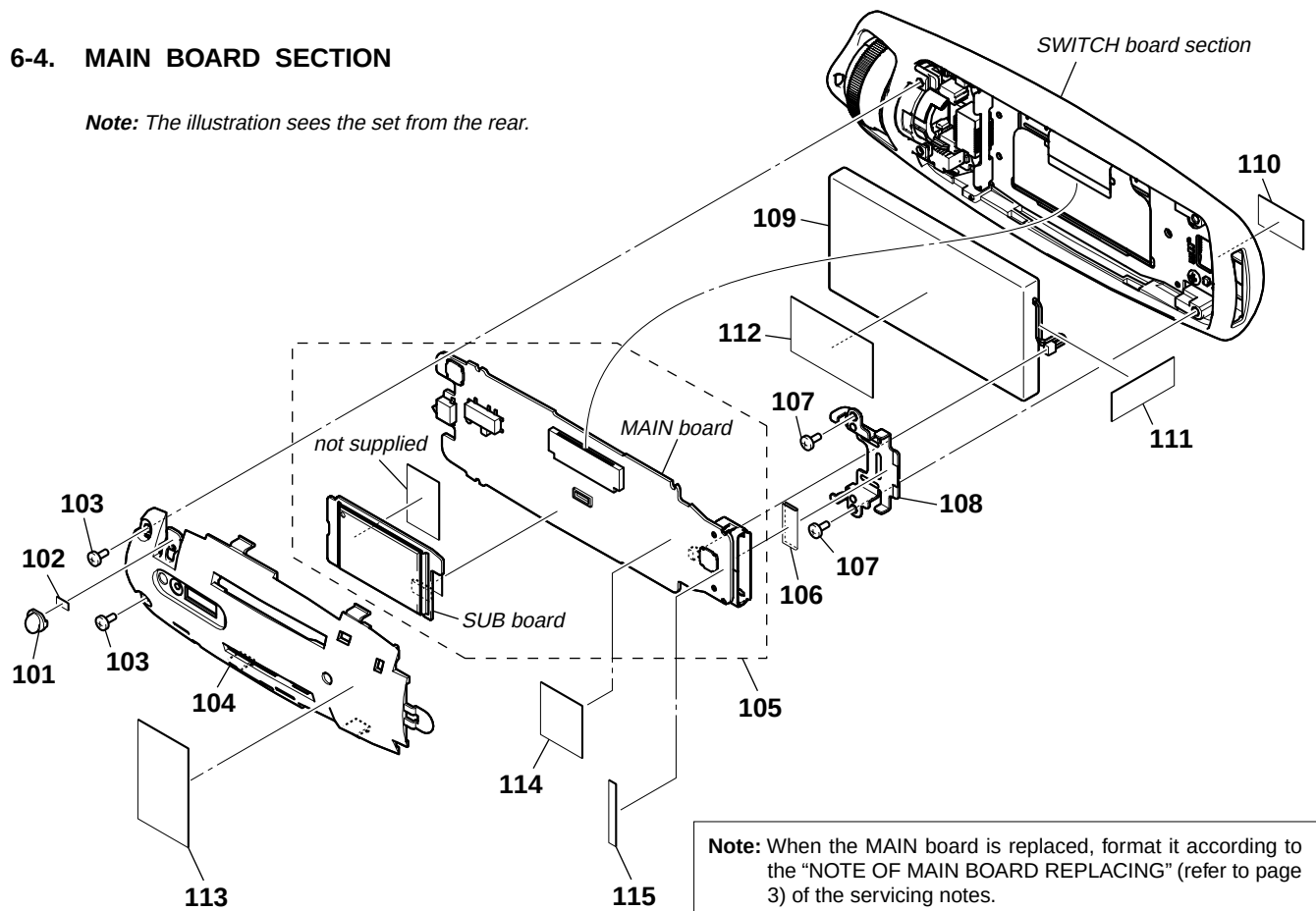


Ref. No.	Part No.	Description	Remark
51	2-697-463-01	WINDOW (BLACK) (NW-S703F/S705F/S706F)	
51	2-697-463-11	WINDOW (VIOLET) (NW-S703F/S705F/S706F)	
51	2-697-463-21	WINDOW (GOLD) (NW-S703F/S705F)	
51	2-697-463-31	WINDOW (PINK) (NW-S703F/S705F)	
51	2-890-941-01	WINDOW (BLACK) (NW-S603/S605)	
51	2-890-941-11	WINDOW (BLUE) (NW-S603/S605)	
51	2-890-941-21	WINDOW (PINK) (NW-S603/S605)	
52	2-697-464-02	SHEET (WINDOW), ADHESIVE	
53	X-2159-470-1	BUTTON (3D (B)) ASSY (BLACK)	(NW-S703F/S705F/S706F)
53	X-2159-471-1	BUTTON (3D (V)) ASSY (VIOLET)	(NW-S703F/S705F/S706F)

Ref. No.	Part No.	Description	Remark
53	X-2159-472-1	BUTTON (3D (N)) ASSY (GOLD)	(NW-S703F/S705F)
53	X-2159-473-1	BUTTON (3D (P)) ASSY (PINK)	(NW-S703F/S705F)
53	X-2159-475-1	BUTTON (3D (B)) ASSY (BLACK)	(NW-S603/S605)
53	X-2159-476-1	BUTTON (3D (L)) ASSY (BLUE)	(NW-S603/S605)
53	X-2159-477-1	BUTTON (3D (P)) ASSY (PINK)	(NW-S603/S605)

6-4. MAIN BOARD SECTION

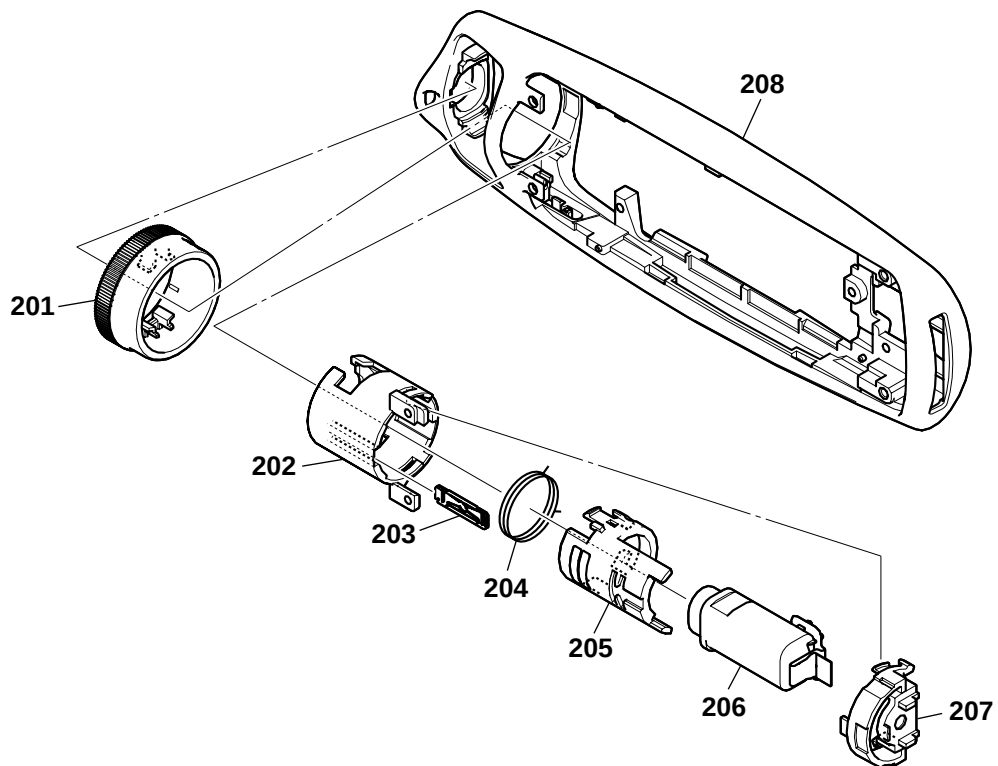
Note: The illustration sees the set from the rear.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	2-697-457-11	BUTTON (SOUND)		105	X-2176-302-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S705F: KR)	
102	2-890-048-01	SHEET (SOUND), ADHESIVE		105	X-2176-303-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S705F: CE7, CEV, MX)	
103	3-248-370-01	SCREW, SELF TAP		105	X-2176-305-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S703F: CEW)	
104	2-697-456-02	HOLDER (REAR)		105	X-2176-306-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S703F: US)	
105	X-2176-281-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S605: CEW)		105	X-2176-307-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S703F: E, AUS, JE)	
105	X-2176-283-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S605: CH)		105	X-2176-308-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S703F: KR)	
105	X-2176-285-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S605: CE7)		105	X-2176-309-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S703F: CE7, CEV, MX)	
105	X-2176-287-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S603: CEW)		106	2-699-382-01	SHEET (CONNECTOR), ADHESIVE	
105	X-2176-288-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S603: CND)		107	3-252-823-01	SCREW (B1.4)	
105	X-2176-289-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S603: CH)		108	2-697-455-01	HOLDER (CONNECTOR)	
105	X-2176-290-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S603: KR)		109	1-756-694-11	LITHIUM ION BATTERY (CE7, CEW, CEV, E, MX, KR, AUS, CH, JE)	
105	X-2176-291-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S603: CE7)		109	X-2159-469-1	BATTERY (A) ASSY (US, CND)	
105	X-2176-294-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S706F: CND)		110	3-093-432-01	SHEET (WIRE)	
105	X-2176-295-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S706F: E, AUS, JE)		111	3-242-558-01	SPACER (LINE IN)	
105	X-2176-296-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S706F: KR)		112	2-697-454-01	SHEET (BATTERY), ADHESIVE	
105	X-2176-297-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S706F: CE7, CEV, MX)		113	3-096-736-01	SHEET (B), HOLDER REAR	
105	X-2176-300-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S705F: US, CND)		114	3-096-735-01	SHEET (A), HOLDER REAR	
105	X-2176-301-1	MAIN BOARD, COMPLETE (including SUB board) (for SERVICE) (NW-S705F: E, AUS, CH, JE)		115	3-096-855-01	SHEET, MAIN PWB	

6-6. FRAME SECTION

Note: The illustration sees the set from the rear.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	2-697-442-01	KNOB (JOG)		206	A-1217-900-A	HEADPHONE ASSY	
202	2-697-443-01	HOLDER (JOG)		207	2-697-445-01	COVER (JOG)	
203	2-697-446-01	PLATE (JOG), CLICK		208	X-2176-542-2	FRAME SUB (S) ASSY (NW-S603/S605)	
204	2-697-447-02	SPRING (JOG)		208	X-2176-543-2	FRAME SUB (S) ASSY	
205	2-697-444-01	ARM (JOG)				(NW-S703F/S705F/S706F)	

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.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Abbreviation
AUS : Australian model CEW : French model JE : Tourist model
CE7 : AEP and UK models CH : Chinese model KR : Korean model
CEV : East European model CND : Canadian model MX : Mexican model

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	X-2176-281-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S605: CEW)		C102	1-112-716-11	CERAMIC CHIP 0.1uF 10%	6.3V
	X-2176-283-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S605: CH)		C103	1-100-504-11	CERAMIC CHIP 0.1uF 20%	6.3V
	X-2176-285-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S605: CE7)		C104	1-125-777-11	CERAMIC CHIP 0.1uF 10%	10V
	X-2176-287-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S603: CEW)		C105	1-100-504-11	CERAMIC CHIP 0.1uF 20%	6.3V
	X-2176-288-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S603: CND)		C106	1-100-504-11	CERAMIC CHIP 0.1uF 20%	6.3V
	X-2176-289-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S603: CH)		C107	1-107-819-11	CERAMIC CHIP 0.022uF 10%	16V
	X-2176-290-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S603: KR)		C108	1-100-504-11	CERAMIC CHIP 0.1uF 20%	6.3V
	X-2176-291-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S603: CE7)		C109	1-100-504-11	CERAMIC CHIP 0.1uF 20%	6.3V
	X-2176-294-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S706F: CND)		C110	1-128-617-11	CERAMIC CHIP 100PF 5%	25V
	X-2176-295-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S706F: E, AUS, JE)		C111	1-164-874-11	CERAMIC CHIP 100PF 5%	50V
	X-2176-296-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S706F: KR)		C112	1-100-735-91	CERAMIC CHIP 10uF 20%	4V
	X-2176-297-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S706F: CE7, CEV, MX)		C113	1-164-931-11	CERAMIC CHIP 100PF 10%	50V
	X-2176-300-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S705F: US, CND)		C114	1-100-504-11	CERAMIC CHIP 0.1uF 20%	6.3V
	X-2176-301-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S705F: E, AUS, CH, JE)		C115	1-100-506-11	CERAMIC CHIP 1uF 20%	6.3V
	X-2176-302-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S705F: KR)		C116	1-112-717-91	CERAMIC CHIP 1uF 10%	6.3V
	X-2176-303-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S705F: CE7, CEV, MX)		C117	1-164-931-11	CERAMIC CHIP 100PF 10%	50V
	X-2176-305-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S703F: CEW)		C118	1-100-506-11	CERAMIC CHIP 1uF 20%	6.3V
	X-2176-306-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S703F: US)		C119	1-100-735-91	CERAMIC CHIP 10uF 20%	4V
	X-2176-307-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S703F: E, AUS, JE)		C120	1-100-504-11	CERAMIC CHIP 0.1uF 20%	6.3V
	X-2176-308-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S703F: KR)		C121	1-164-931-11	CERAMIC CHIP 100PF 10%	50V
	X-2176-309-1	MAIN BOARD, COMPLETE (for SERVICE) (NW-S703F: CE7, CEV, MX)		C122	1-164-931-11	CERAMIC CHIP 100PF 10%	50V
	***** (including SUB board)			C123	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
	< CAPACITOR >			C124	1-128-632-11	CERAMIC CHIP 0.01uF 10%	6.3V
C101	1-100-504-11	CERAMIC CHIP 0.1uF 20%	6.3V	C125	1-112-717-91	CERAMIC CHIP 1uF 10%	6.3V
				C126	1-100-735-91	CERAMIC CHIP 10uF 20%	4V
				C127	1-107-819-11	CERAMIC CHIP 0.022uF 10%	16V
				C128	1-107-819-11	CERAMIC CHIP 0.022uF 10%	16V
				C129	1-100-504-11	CERAMIC CHIP 0.1uF 20%	6.3V
				C130	1-100-504-11	CERAMIC CHIP 0.1uF 20%	6.3V
				C132	1-100-504-11	CERAMIC CHIP 0.1uF 20%	6.3V
				C133	1-100-504-11	CERAMIC CHIP 0.1uF 20%	6.3V
				C134	1-100-504-11	CERAMIC CHIP 0.1uF 20%	6.3V
				C136	1-112-717-91	CERAMIC CHIP 1uF 10%	6.3V
				C137	1-112-717-91	CERAMIC CHIP 1uF 10%	6.3V
				C138	1-125-777-11	CERAMIC CHIP 0.1uF 10%	10V
				C139	1-164-931-11	CERAMIC CHIP 100PF 10%	50V
				C140	1-128-627-11	CERAMIC CHIP 0.001uF 10%	16V
				C141	1-125-777-11	CERAMIC CHIP 0.1uF 10%	10V
				C142	1-100-735-91	CERAMIC CHIP 10uF 20%	4V
				C143	1-128-627-11	CERAMIC CHIP 0.001uF 10%	16V
				C144	1-128-617-11	CERAMIC CHIP 100PF 5%	25V
				C145	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V
				C146	1-112-717-91	CERAMIC CHIP 1uF 10%	6.3V
				C147	1-100-504-11	CERAMIC CHIP 0.1uF 20%	6.3V

Note: When the MAIN board is replaced, format it according to the "NOTE OF MAIN BOARD REPLACING" (refer to page 3) of the servicing notes.

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
C148	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V		C2112	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V	
C149	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V					(NW-S703F/S705F/S706F)			
C150	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V		C2117	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V	
C151	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V					(NW-S703F/S705F/S706F)			
C152	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V		C2118	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
										(NW-S603/S605)			
C153	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V		C2119	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C154	1-100-735-91	CERAMIC CHIP	10uF	20%	4V					(NW-S603/S605)			
C155	1-164-852-11	CERAMIC CHIP	12PF	5%	50V		C2703	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C156	1-164-852-11	CERAMIC CHIP	12PF	5%	50V					(NW-S703F/S705F/S706F)			
C157	1-127-993-91	CERAMIC CHIP	3PF	0.25PF	25V		C2704	1-114-273-91	TANTALUM CHIP	47uF	20%	10V	
										(NW-S703F/S705F/S706F)			
C158	1-127-993-91	CERAMIC CHIP	3PF	0.25PF	25V		C2705	1-164-933-11	CERAMIC CHIP	220PF	10%	50V	
C159	1-100-415-11	CERAMIC CHIP	0.47uF	10%	6.3V					(NW-S703F/S705F/S706F)			
C162	1-165-908-11	CERAMIC CHIP	1uF	10%	10V		C2707	1-164-933-11	CERAMIC CHIP	220PF	10%	50V	
C163	1-128-604-11	CERAMIC CHIP	10PF	0.5PF	25V					(NW-S703F/S705F/S706F)			
C164	1-128-604-11	CERAMIC CHIP	10PF	0.5PF	25V		C2708	1-164-882-11	CERAMIC CHIP	220PF	5%	16V	
										(NW-S703F/S705F/S706F)			
C165	1-100-735-91	CERAMIC CHIP	10uF	20%	4V		C2709	1-128-627-11	CERAMIC CHIP	0.001uF	10%	16V	
C166	1-100-735-91	CERAMIC CHIP	10uF	20%	4V					(NW-S703F/S705F/S706F)			
C167	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V		C3001	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V	
C190	1-128-622-91	CERAMIC CHIP	100PF	10%	16V					(NW-S703F/S705F/S706F)			
C196	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V		C3002	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V	
										(NW-S703F/S705F/S706F)			
C201	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V		C3003	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C405	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V					(NW-S703F/S705F/S706F)			
C406	1-114-170-91	TANTALUM CHIP	1uF	20%	35V		C3004	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C409	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V					(NW-S703F/S705F/S706F)			
C416	1-100-352-11	CERAMIC CHIP	1uF	20%	16V					(NW-S703F/S705F/S706F)			
C417	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V		C3005	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V	
C418	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V					(NW-S703F/S705F/S706F)			
C419	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		C3006	1-100-415-11	CERAMIC CHIP	0.47uF	10%	6.3V	
C420	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V					(NW-S703F/S705F/S706F)			
C421	1-100-352-11	CERAMIC CHIP	1uF	20%	16V		C3007	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V	
										(NW-S703F/S705F/S706F)			
C422	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V		C3008	1-100-415-11	CERAMIC CHIP	0.47uF	10%	6.3V	
C601	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V					(NW-S703F/S705F/S706F)			
C602	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V		C3009	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V	
C603	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V					(NW-S703F/S705F/S706F)			
C604	1-131-664-91	CERAMIC CHIP	0.15uF	10%	10V					(NW-S703F/S705F/S706F)			
C605	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V		C3010	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V	
C606	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V					(NW-S703F/S705F/S706F)			
C607	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V		C3011	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V	
C608	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V					(NW-S703F/S705F/S706F)			
C609	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V		C3012	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V	
										(NW-S703F/S705F/S706F)			
C610	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V		C3013	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C613	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V					(NW-S703F/S705F/S706F)			
C614	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V		C3016	1-164-935-11	CERAMIC CHIP	470PF	10%	50V	
C615	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V					(NW-S703F/S705F/S706F)			
C616	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V		C3018	1-164-935-11	CERAMIC CHIP	470PF	10%	50V	
										(NW-S703F/S705F/S706F)			
C617	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V		C3021	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C619	1-114-176-21	TANTALUM CHIP	47uF	20%	10V					(NW-S703F/S705F/S706F)			
C620	1-114-176-21	TANTALUM CHIP	47uF	20%	10V		C3026	1-127-772-11	CERAMIC CHIP	0.033uF	10%	10V	
C621	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V					(NW-S703F/S705F/S706F)			
C622	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V		C3027	1-127-772-11	CERAMIC CHIP	0.033uF	10%	10V	
										(NW-S703F/S705F/S706F)			
C623	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V		C3029	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	
C624	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V					(NW-S703F/S705F/S706F)			
C625	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V		C3101	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V	
C626	1-128-611-11	CERAMIC CHIP	33PF	5%	25V					(NW-S703F/S705F/S706F)			
C627	1-128-627-11	CERAMIC CHIP	0.001uF	10%	16V		C3102	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V	
										(NW-S703F/S705F/S706F)			
C629	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V					(NW-S703F/S705F/S706F)			

NW-S603/S605/S703F/S705F/S706F

MAIN

Ref. No.	Part No.	Description	Remark
C3103	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V (NW-S603/S605)	
C3104	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V (NW-S603/S605)	
< CONNECTOR >			
CN106	1-820-771-21	CONNECTOR, MULTIPLE (SOCKET)	
CN107	1-820-775-21	CONNECTOR, BOARD TO BOARD 24P	
CN108	1-820-776-21	CONNECTOR, BOARD TO BOARD 22P	
CN401	1-820-772-21	CONNECTOR, FPC (ZIF) 45P	
CN601	1-818-210-21	PIN, CONNECTOR 2P	
< DIODE >			
D103	8-719-069-29	DIODE RB520S-30TE61	
D401	6-501-386-01	DIODE MA21D3800LS0	
D402	6-501-386-01	DIODE MA21D3800LS0	
D601	8-719-069-29	DIODE RB520S-30TE61	
D2701	6-501-385-01	DIODE MA3S13700LS0 (NW-S703F/S705F/S706F)	
D3001	8-719-989-02	DIODE DA221-TR (NW-S703F/S705F/S706F)	
D3002	8-719-989-02	DIODE DA221-TR (NW-S703F/S705F/S706F)	
< FERRITE BEAD/RESISTOR >			
FB100	1-400-851-11	EMI, FERRITE (SMD) (1005)	
FB104	1-400-461-21	FERRITE, EMI (SMD) (1005)	
FB105	1-400-851-11	EMI, FERRITE (SMD) (1005)	
FB106	1-400-851-11	EMI, FERRITE (SMD) (1005)	
FB107	1-400-851-11	EMI, FERRITE (SMD) (1005)	
FB110	1-400-851-11	EMI, FERRITE (SMD) (1005)	
FB111	1-400-851-11	EMI, FERRITE (SMD) (1005)	
FB112	1-400-851-11	EMI, FERRITE (SMD) (1005)	
FB113	1-400-851-11	EMI, FERRITE (SMD) (1005)	
FB114	1-400-851-11	EMI, FERRITE (SMD) (1005)	
FB120	1-218-941-11	RES-CHIP 100 5% 1/16W	
FB123	1-400-851-11	EMI, FERRITE (SMD) (1005)	
FB401	1-400-461-21	FERRITE, EMI (SMD) (1005)	
FB402	1-400-461-21	FERRITE, EMI (SMD) (1005)	
< IC >			
IC100	6-703-879-01	IC NJU7043RB1 (TE2)	
IC101	(Not supplied)	IC CXD5090B1-003GG	
@ IC201	6-807-105-01	IC S71PL032J08BFW0B0	
IC401	(Not supplied)	IC MM3306-XRRE	
IC601	6-710-285-01	IC MAX8670A	
@ IC2701	6-710-602-01	IC TK63727BCB-G (NW-S703F/S705F/S706F)	
IC2702	6-709-757-01	IC SDFMM1N23GB2T (NW-S703F/S705F/S706F)	
IC3001	(Not supplied)	IC NLAS4717EPFCT1G (NW-S703F/S705F/S706F)	
IC3003	6-706-906-01	IC NJM2732RB1 (TE2) (NW-S703F/S705F/S706F)	
IC3004	6-710-448-01	IC MAX5489ETE (NW-S703F/S705F/S706F)	
@ IC3005	6-710-601-01	IC TK63726BCB-G (NW-S703F/S705F/S706F)	
@ IC3007	6-710-601-01	IC TK63726BCB-G (NW-S703F/S705F/S706F)	
< COIL >			
L401	1-481-213-11	INDUCTOR 22uH	
L402	1-481-213-11	INDUCTOR 22uH	
L602	1-481-185-21	INDUCTOR 4.7uH	

Ref. No.	Part No.	Description	Remark
L603	1-481-214-21	INDUCTOR 10uH	
LF101	1-456-984-11	COIL, COMMONMODECHOKE (SMD1210)	
< TRANSISTOR/JUMPER RESISTOR >			
Q100	6-551-347-01	FET 2SJ067400LS0	
Q101	6-551-653-01	TRANSISTOR EMX26	
Q601	6-550-379-01	FET 2SK354700LS0	
Q602	6-551-347-01	FET 2SJ067400LS0	
Q604	6-550-379-01	FET 2SK354700LS0	
Q605	1-218-990-11	SHORT CHIP 0	
Q2701	6-550-379-01	FET 2SK354700LS0 (NW-S703F/S705F/S706F)	
Q3001	6-550-379-01	FET 2SK354700LS0 (NW-S703F/S705F/S706F)	
Q3002	6-550-232-01	TRANSISTOR 2SA2029T2LQ/R (NW-S703F/S705F/S706F)	
Q3003	6-550-232-01	TRANSISTOR 2SA2029T2LQ/R (NW-S703F/S705F/S706F)	
< RESISTOR >			
R100	1-244-161-11	RES-CHIP 2.2 5% 1/16W	
R101	1-218-941-11	RES-CHIP 100 5% 1/16W	
R102	1-218-965-11	RES-CHIP 10K 5% 1/16W	
R103	1-218-949-11	RES-CHIP 470 5% 1/16W	
R104	1-218-990-11	SHORT CHIP 0	
R105	1-218-990-11	SHORT CHIP 0	
R106	1-240-679-91	METAL CHIP 47 5% 1/20W	
R107	1-240-679-91	METAL CHIP 47 5% 1/20W	
R108	1-240-703-91	METAL CHIP 4.7K 5% 1/20W	
R109	1-240-703-91	METAL CHIP 4.7K 5% 1/20W	
R110	1-218-935-11	RES-CHIP 33 5% 1/16W	
R111	1-240-718-91	METAL CHIP 100K 5% 1/20W	
R112	1-218-990-11	SHORT CHIP 0	
R113	1-218-990-11	SHORT CHIP 0	
R114	1-218-990-11	SHORT CHIP 0	
R115	1-240-703-91	METAL CHIP 4.7K 5% 1/20W (NW-S603/S605)	
R116	1-218-977-11	RES-CHIP 100K 5% 1/16W	
R117	1-218-941-11	RES-CHIP 100 5% 1/16W	
R118	1-218-971-11	RES-CHIP 33K 5% 1/16W	
R119	1-218-990-11	SHORT CHIP 0	
R120	1-218-990-11	SHORT CHIP 0	
R121	1-240-703-91	METAL CHIP 4.7K 5% 1/20W (NW-S703F/S705F/S706F)	
R122	1-218-989-11	RES-CHIP 1M 5% 1/16W	
R123	1-240-729-91	METAL CHIP 1M 5% 1/20W	
R124	1-218-933-11	RES-CHIP 22 5% 1/16W	
R125	1-240-726-91	METAL CHIP 470K 5% 1/20W	
R126	1-218-990-11	SHORT CHIP 0	
R128	1-240-707-91	METAL CHIP 10K 5% 1/20W	
R129	1-240-676-91	METAL CHIP 22 5% 1/20W	
R130	1-240-729-91	METAL CHIP 1M 5% 1/20W	
R131	1-240-714-91	METAL CHIP 47K 5% 1/20W	
R132	1-240-703-91	METAL CHIP 4.7K 5% 1/20W	
R133	1-240-703-91	METAL CHIP 4.7K 5% 1/20W	
R134	1-218-987-11	RES-CHIP 680K 5% 1/16W	
R135	1-218-987-11	RES-CHIP 680K 5% 1/16W	
R137	1-240-729-91	METAL CHIP 1M 5% 1/20W	
R138	1-218-989-11	RES-CHIP 1M 5% 1/16W	

@ Replacement of IC201, IC2701, IC3005 and IC3007 on the MAIN board used in this set requires a special tool.

Note: When IC101, IC401 and IC3001 on the MAIN board are damaged, exchange the new MAIN board for the MAIN board which IC damaged.

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R139	1-240-683-91	METAL CHIP	100	5%	1/20W	R2706	1-218-953-11	RES-CHIP	1K	5%	1/16W
R140	1-240-683-91	METAL CHIP	100	5%	1/20W						(NW-S703F/S705F/S706F)
R141	1-240-711-91	METAL CHIP	22K	5%	1/20W	R2707	1-218-929-11	RES-CHIP	10	5%	1/16W
											(NW-S703F/S705F/S706F)
R142	1-240-711-91	METAL CHIP	22K	5%	1/20W	R2708	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R145	1-240-720-91	METAL CHIP	150K	5%	1/20W						(NW-S703F/S705F/S706F)
R146	1-240-720-91	METAL CHIP	150K	5%	1/20W	R2709	1-218-985-11	RES-CHIP	470K	5%	1/16W
R147	1-240-729-91	METAL CHIP	1M	5%	1/20W						(NW-S703F/S705F/S706F)
R148	1-240-729-91	METAL CHIP	1M	5%	1/20W	R2710	1-216-864-11	SHORT CHIP	0		(NW-S703F/S705F/S706F)
R149	1-240-729-91	METAL CHIP	1M	5%	1/20W	R2711	1-694-535-91	SHORT CHIP	0		
R150	1-240-729-91	METAL CHIP	1M	5%	1/20W	R3001	1-240-700-91	METAL CHIP	2.7K	5%	1/20W
R181	1-218-961-11	RES-CHIP	4.7K	5%	1/16W						(NW-S703F/S705F/S706F)
R186	1-694-535-91	SHORT CHIP	0			R3002	1-240-700-91	METAL CHIP	2.7K	5%	1/20W
R201	1-694-535-91	SHORT CHIP	0								(NW-S703F/S705F/S706F)
						R3003	1-218-958-11	RES-CHIP	2.7K	5%	1/16W
											(NW-S703F/S705F/S706F)
R202	1-218-977-11	RES-CHIP	100K	5%	1/16W	R3004	1-218-958-11	RES-CHIP	2.7K	5%	1/16W
R203	1-240-718-91	METAL CHIP	100K	5%	1/20W						(NW-S703F/S705F/S706F)
R405	1-694-535-91	SHORT CHIP	0								
R406	1-240-718-91	METAL CHIP	100K	5%	1/20W	R3005	1-218-958-11	RES-CHIP	2.7K	5%	1/16W
R407	1-240-726-91	METAL CHIP	470K	5%	1/20W						(NW-S703F/S705F/S706F)
						R3006	1-218-967-11	RES-CHIP	15K	5%	1/16W
R408	1-240-711-91	METAL CHIP	22K	5%	1/20W						(NW-S703F/S705F/S706F)
R409	1-240-726-91	METAL CHIP	470K	5%	1/20W	R3007	1-218-958-11	RES-CHIP	2.7K	5%	1/16W
R505	1-240-707-91	METAL CHIP	10K	5%	1/20W						(NW-S703F/S705F/S706F)
R512	1-240-726-91	METAL CHIP	470K	5%	1/20W	R3008	1-218-967-11	RES-CHIP	15K	5%	1/16W
R513	1-240-707-91	METAL CHIP	10K	5%	1/20W						(NW-S703F/S705F/S706F)
						R3009	1-208-690-11	METAL CHIP	2K	0.5%	1/16W
											(NW-S703F/S705F/S706F)
R514	1-240-726-91	METAL CHIP	470K	5%	1/20W	R3010	1-208-690-11	METAL CHIP	2K	0.5%	1/16W
R515	1-218-969-11	RES-CHIP	22K	5%	1/16W						(NW-S703F/S705F/S706F)
R516	1-218-953-11	RES-CHIP	1K	5%	1/16W	R3011	1-218-990-11	SHORT CHIP	0		(NW-S703F/S705F/S706F)
R601	1-218-990-11	SHORT CHIP	0			R3012	1-218-965-11	RES-CHIP	10K	5%	1/16W
R602	1-218-985-11	RES-CHIP	470K	5%	1/16W						(NW-S703F/S705F/S706F)
						R3013	1-218-965-11	RES-CHIP	10K	5%	1/16W
R603	1-208-935-11	METAL CHIP	100K	0.5%	1/16W						(NW-S703F/S705F/S706F)
R604	1-208-923-11	METAL CHIP	33K	0.5%	1/16W	R3014	1-218-979-11	RES-CHIP	150K	5%	1/16W
R605	1-218-990-11	SHORT CHIP	0								(NW-S703F/S705F/S706F)
R610	1-218-985-11	RES-CHIP	470K	5%	1/16W						
R611	1-240-726-91	METAL CHIP	470K	5%	1/20W						
						R3016	1-218-973-11	RES-CHIP	47K	5%	1/16W
R613	1-218-965-11	RES-CHIP	10K	5%	1/16W						(NW-S703F/S705F/S706F)
R614	1-208-699-11	METAL CHIP	4.7K	0.5%	1/16W	R3017	1-218-979-11	RES-CHIP	150K	5%	1/16W
R616	1-218-990-11	SHORT CHIP	0								(NW-S703F/S705F/S706F)
R617	1-218-990-11	SHORT CHIP	0			R3019	1-218-973-11	RES-CHIP	47K	5%	1/16W
R619	1-218-990-11	SHORT CHIP	0								(NW-S703F/S705F/S706F)
						R3020	1-218-973-11	RES-CHIP	47K	5%	1/16W
R621	1-218-961-11	RES-CHIP	4.7K	5%	1/16W						(NW-S703F/S705F/S706F)
R626	1-218-990-11	SHORT CHIP	0			R3021	1-218-973-11	RES-CHIP	47K	5%	1/16W
R627	1-218-990-11	SHORT CHIP	0								(NW-S703F/S705F/S706F)
R629	1-218-985-11	RES-CHIP	470K	5%	1/16W						
R631	1-240-726-91	METAL CHIP	470K	5%	1/20W						
						R3022	1-218-990-11	SHORT CHIP	0		(NW-S703F/S705F/S706F)
R633	1-694-535-91	SHORT CHIP	0			R3023	1-218-990-11	SHORT CHIP	0		(NW-S703F/S705F/S706F)
R634	1-220-203-11	RES-CHIP	51K	5%	1/16W	R3024	1-240-714-91	METAL CHIP	47K	5%	1/20W
R636	1-216-295-00	SHORT CHIP	0								(NW-S703F/S705F/S706F)
R2106	1-218-990-11	SHORT CHIP	0		(NW-S703F/S705F/S706F)						
R2107	1-218-990-11	SHORT CHIP	0		(NW-S703F/S705F/S706F)	R3026	1-240-714-91	METAL CHIP	47K	5%	1/20W
											(NW-S703F/S705F/S706F)
R2115	1-240-703-91	METAL CHIP	4.7K	5%	1/20W	R3033	1-218-952-11	RES-CHIP	820	5%	1/16W
					(NW-S703F/S705F/S706F)						(NW-S703F/S705F/S706F)
R2701	1-218-961-11	RES-CHIP	4.7K	5%	1/16W						
					(NW-S703F/S705F/S706F)	R3034	1-218-952-11	RES-CHIP	820	5%	1/16W
R2702	1-218-963-11	RES-CHIP	6.8K	5%	1/16W						(NW-S703F/S705F/S706F)
					(NW-S703F/S705F/S706F)	R3037	1-218-990-11	SHORT CHIP	0		(NW-S703F/S705F/S706F)
R2704	1-218-990-11	SHORT CHIP	0		(NW-S703F/S705F/S706F)	R3038	1-240-718-91	METAL CHIP	100K	5%	1/20W
R2705	1-218-939-11	RES-CHIP	68	5%	1/16W						(NW-S703F/S705F/S706F)
					(NW-S703F/S705F/S706F)	R3039	1-218-977-11	RES-CHIP	100K	5%	1/16W
											(NW-S703F/S705F/S706F)

NW-S603/S605/S703F/S705F/S706F

Ver. 1.2

MAIN **SUB** **SWITCH**

Ref. No.	Part No.	Description	Remark		
R3041	1-240-718-91	METAL CHIP	100K	5%	1/20W (NW-S703F/S705F/S706F)
R3042	1-240-718-91	METAL CHIP	100K	5%	1/20W (NW-S703F/S705F/S706F)
R3043	1-240-726-91	METAL CHIP	470K	5%	1/20W (NW-S703F/S705F/S706F)
R3044	1-218-981-11	RES-CHIP	220K	5%	1/16W (NW-S703F/S705F/S706F)
< SWITCH >					
S101	1-786-914-11	SWITCH, TACTILE (RESET)			
S505	1-771-449-11	SWITCH, SLIDE (HOLD)			
S506	(Not supplied)	SWITCH, PUSH (1 KEY) (NORMAL/FOLDER)			
S507	1-786-914-11	SWITCH, TACTILE (PLAYMODE, SOUND)			
< VARISTOR >					
VDR107	1-805-216-21	VARISTOR, CHIP			
VDR108	1-805-216-21	VARISTOR, CHIP			
VDR109	1-804-209-21	VARISTOR (SMD) (1005)			
VDR110	1-803-742-21	VARISTOR, CHIP			
VDR111	1-803-742-21	VARISTOR, CHIP			
VDR112	1-803-742-21	VARISTOR, CHIP			
VDR601	1-805-216-21	VARISTOR, CHIP			
VDR602	1-805-216-21	VARISTOR, CHIP			
VDR604	1-805-216-21	VARISTOR, CHIP			
VDR606	1-805-216-21	VARISTOR, CHIP			
< VIBRATOR >					
X101	1-813-877-11	VIBRATOR, CRYSTAL (12MHz)			
X102	1-813-914-11	QUARTS CRYSTAL (45.1584MHz)			

SUB BOARD (included in MAIN board)					

< CAPACITOR >					
C1301	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
< CONNECTOR >					
CN1301	1-820-774-21	CONNECTOR, BOARD TO BOARD 22P			
< IC >					
IC1301	(Not supplied)	IC TC58NVG3D4CTG00 (NW-S603/S703F)			
IC1301	(Not supplied)	IC TH58NVG4D4CTG00 (NW-S605/S705F)			
IC1301	(Not supplied)	IC K9HBG08U1M-PCB (NW-S706F)			
< JUMPER RESISTOR >					
R1303	1-218-990-11	SHORT CHIP	0 (NW-S706F)		
R1306	1-218-990-11	SHORT CHIP	0 (NW-S706F)		

X-2159-413-2 SWITCH BOARD, COMPLETE (for SERVICE)					

3-098-269-01 SHEET (SW PWB)					
< CAPACITOR >					
C551	1-128-632-11	CERAMIC CHIP	0.01uF	10%	6.3V
C801	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V

Ref. No.	Part No.	Description	Remark		
C851	1-114-169-21	TANTALUM CHIP	220uF	20%	4V
C852	1-114-169-21	TANTALUM CHIP	220uF	20%	4V
C853	1-128-617-11	CERAMIC CHIP	100PF	5%	25V
C854	1-128-617-11	CERAMIC CHIP	100PF	5%	25V
< CONNECTOR >					
CN801	1-820-773-21	CONNECTOR, BOARD TO BOARD 24P			
CN852	1-820-770-21	CONNECTOR, FFC/FPC (ZIF) 11P			
< FERRITE BEAD >					
FB851	1-400-851-11	EMI, FERRITE (SMD) (1005)			
FB852	1-400-851-11	EMI, FERRITE (SMD) (1005)			
FB853	1-400-915-21	INDUCTOR (EMI FERRITE) (2012)			
FB854	1-400-851-11	EMI, FERRITE (SMD) (1005)			
FB855	1-400-851-11	EMI, FERRITE (SMD) (1005)			
< TRANSISTOR >					
Q551	6-550-232-01	TRANSISTOR	2SA2029T2LQ/R		
Q552	6-550-232-01	TRANSISTOR	2SA2029T2LQ/R		
Q553	6-550-237-01	TRANSISTOR	2SC5658T2LQ/R		
< RESISTOR >					
R551	1-240-707-91	METAL CHIP	10K	5%	1/20W
R552	1-240-707-91	METAL CHIP	10K	5%	1/20W
R553	1-218-965-11	RES-CHIP	10K	5%	1/16W
R554	1-218-969-11	RES-CHIP	22K	5%	1/16W
R555	1-240-707-91	METAL CHIP	10K	5%	1/20W
R556	1-240-707-91	METAL CHIP	10K	5%	1/20W
R557	1-240-711-91	METAL CHIP	22K	5%	1/20W
R558	1-240-718-91	METAL CHIP	100K	5%	1/20W
R559	1-240-714-91	METAL CHIP	47K	5%	1/20W
R560	1-240-707-91	METAL CHIP	10K	5%	1/20W
R561	1-240-718-91	METAL CHIP	100K	5%	1/20W
R562	1-240-707-91	METAL CHIP	10K	5%	1/20W
R563	1-218-965-11	RES-CHIP	10K	5%	1/16W
R580	1-218-990-11	SHORT CHIP	0		
R801	1-218-990-11	SHORT CHIP	0		
R803	1-218-965-11	RES-CHIP	10K	5%	1/16W
R851	1-240-707-91	METAL CHIP	10K	5%	1/20W
R852	1-240-707-91	METAL CHIP	10K	5%	1/20W
R853	1-245-551-91	METAL CHIP	2.2	5%	1/20W
R854	1-245-551-91	METAL CHIP	2.2	5%	1/20W
R855	1-218-990-11	SHORT CHIP	0		
R856	1-240-683-91	METAL CHIP	100	5%	1/20W
R857	1-240-683-91	METAL CHIP	100	5%	1/20W
< SWITCH >					
S551	1-786-650-41	SWITCH, TACTILE (▶■)			
S552	1-786-914-11	SWITCH, TACTILE (VOL -)			
S553	1-786-738-11	TACTILE SWITCH (DISPLAY, HOME)			
S554	1-786-914-11	SWITCH, TACTILE (VOL +)			
S555	1-798-027-21	SWITCH, DETECTION (◀◀, FOLDER -)			
S556	1-798-027-21	SWITCH, DETECTION (▶▶, FOLDER +)			
< VARISTOR >					
VDR551	1-805-216-21	VARISTOR, CHIP			
VDR552	1-805-216-21	VARISTOR, CHIP			

Note: When IC1301 on the SUB board is damaged, exchange the new SUB board for the SUB board (included in MAIN board) which IC damaged.

Ref. No.	Part No.	Description	Remark
VDR553	1-805-216-21	VARISTOR, CHIP	
VDR851	1-805-216-21	VARISTOR, CHIP	
VDR852	1-805-216-21	VARISTOR, CHIP	
VDR853	1-805-216-21	VARISTOR, CHIP	
VDR854	1-805-216-21	VARISTOR, CHIP	

< IC >

X801 6-600-517-01 IC RX-4574LC

MISCELLANEOUS

109	1-756-694-11	LITHIUM ION BATTERY (CE7, CEW, CEV, E, MX, KR, AUS, CH, JE)
109	X-2159-469-1	BATTERY (A) ASSY (US, CND)
158	X-2159-478-1	OLED SUB ASSY
206	A-1217-900-A	HEADPHONE ASSY

ACCESSORIES

1-831-429-21	CORD (WITH PLUG) (Headphone extension cord) (NW-S603/S605)
1-833-490-11	CORD, PC CONNECTION (USB cable)
1-833-491-12	CORD (WITH PLUG) (Headphone extension cord) (NW-S703F/S705F/S706F)
2-887-746-13	MANUAL (QSG), INSTRUCTION (Quick Start Guide) (ENGLISH)
2-887-746-23	MANUAL (QSG), INSTRUCTION (Quick Start Guide) (FRENCH) (CND, CE7, CEV, CEW)
2-887-746-33	MANUAL (QSG), INSTRUCTION (Quick Start Guide) (GERMAN) (CE7, CEV)
2-887-746-43	MANUAL (QSG), INSTRUCTION (Quick Start Guide) (SPANISH) (CE7, CEV, MX)
2-887-746-54	MANUAL (QSG), INSTRUCTION (Quick Start Guide) (ITALIAN) (CE7, CEV)
2-887-746-62	MANUAL (QSG), INSTRUCTION (Quick Start Guide) (DUTCH) (CE7, CEV)
2-887-746-73	MANUAL (QSG), INSTRUCTION (Quick Start Guide) (SIMPLIFIED CHINESE) (E, AUS, CH, JE)
2-887-746-83	MANUAL (QSG), INSTRUCTION (Quick Start Guide) (TRADITIONAL CHINESE) (E, AUS, JE)
2-887-746-93	MANUAL (QSG), INSTRUCTION (Quick Start Guide) (KOREAN) (E, KR, AUS, JE)
2-892-436-01	ATTACHMENT (C) (For optional cradle)
3-046-415-21	PIECE (L), EAR (L size) (NW-S703F/S705F/S706F)
4-220-438-21	PIECE (M), EAR (M size) (NW-S703F/S705F/S706F)
4-220-439-21	PIECE (S), EAR (S size) (NW-S703F/S705F/S706F)
8-912-759-90	RECEIVER (MDR-EX082/BC9 SET) (NW-S603/S605)
X-2176-798-2	HEADPHONE ASSY (MDR-NC022) (Including ear pieces: size S/M/L) (NW-S703F/S705F/S706F)
X-2159-463-3	SOFT ASSY, APPLICATION (SSCP4.1) (SonicStage software/Operation Guide (PDF file)) (EXCEPT MX)
X-2177-118-2	SOFT ASSY, APPLICATION (SSCP4.2) (SonicStage software/Operation Guide (PDF file))