

PCM-D10

SERVICE MANUAL

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Revision of Information:

This information may be changed or updated at any time without any prior notice. Please confirm that this information is up-to-date before using it.

Note:

Be sure to keep your PC used for service and checking of this unit always updated with the latest version of your anti-virus software.
In case a virus affected unit was found during service, contact your Service Headquarters.

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Sony Video & Sound Products Inc.

SONY®

PCM-D10

SERVICE MANUAL

Ver. 1.1 2019.03

US Model
Canadian Model
E Model
Chinese Model



SPECIFICATIONS

Capacity ^{*19,2} (User available capacity)	16 GB (Approx. 12.80 GB = 13,743,895,347 Byte)
Maximum number of recorded files (for a folder)	199 files
Maximum number of files (including those stored on the SD card)	5,000 files (including folders)
Frequency characteristics (Input from the LINE IN jack, output from LINE OUT jack when recording/playing back)	<ul style="list-style-type: none"> LPCM 192 kHz/24 bit: 20 Hz - 60,000 Hz (0 dB - -3 dB) LPCM 176.4 kHz/24 bit: 20 Hz - 60,000 Hz (0 dB - -3 dB) LPCM 96 kHz/24 bit: 20 Hz - 40,000 Hz (0 dB - -3 dB) LPCM 96 kHz/16 bit: 20 Hz - 40,000 Hz (0 dB - -3 dB) LPCM 88.2 kHz/24 bit: 20 Hz - 40,000 Hz (0 dB - -3 dB) LPCM 88.2 kHz/16 bit: 20 Hz - 40,000 Hz (0 dB - -3 dB) LPCM 48 kHz/24 bit: 20 Hz - 22,000 Hz (0 dB - -3 dB) LPCM 48 kHz/16 bit: 20 Hz - 22,000 Hz (0 dB - -3 dB) LPCM 44.1 kHz/24 bit: 20 Hz - 20,000 Hz (0 dB - -3 dB) LPCM 44.1 kHz/16 bit: 20 Hz - 20,000 Hz (0 dB - -3 dB) MP3 320 kbps: 20 Hz - 20,000 Hz (0 dB - -3 dB) MP3 128 kbps: 20 Hz - 16,000 Hz (0 dB - -3 dB)
File formats compatible for playback	<ul style="list-style-type: none"> MP3 ^{*3,4} Bit rate: 32 kbps - 320 kbps (Supports variable bit rate (VBR)) Sampling frequencies: 16/22.05/24/32/44.1/48 kHz File extension: .mp3
	<ul style="list-style-type: none"> WMA ^{*3,5} Bit rate: 32 kbps - 192 kbps (Supports variable bit rate (VBR)) Sampling frequencies: 44.1 kHz File extension: .wma
	<ul style="list-style-type: none"> AAC-LC ^{*3,6} Bit rate: 16 kbps - 320 kbps (Supports variable bit rate (VBR)) Sampling frequencies: 11.025/12/16/22.05/24/32/44.1/48 kHz File extension: .m4a
	<ul style="list-style-type: none"> LPCM ^{*3} Quantization bit rate: 24 bit Sampling frequencies: 192/176.4/96/88.2/48/44.1 kHz File extension: .wav
Input/output	<ul style="list-style-type: none"> LPCM ^{*3} Quantization bit rate: 16 bit Sampling frequencies: 192/176.4/96/88.2/48/44.1/22.05 kHz File extension: .wav
	<ul style="list-style-type: none"> FLAC ^{*3} Quantization bit rate: 24 bit Sampling frequencies: 192/176.4/96/88.2/48/44.1 kHz File extension: .flac
File formats compatible for playback	<ul style="list-style-type: none"> FLAC ^{*3} Quantization bit rate: 16 bit Sampling frequencies: 192/176.4/96/88.2/48/44.1/22.05 kHz File extension: .flac
Signal-to-noise ratio (S/N) (Input from the LINE IN jack, output from LINE OUT jack when recording/playing back ^{*9})	<ul style="list-style-type: none"> When "High S/N Mode" is disabled: 98 dB or above (1 kHz, IHF-A, load impedance: 22 kΩ) When "High S/N Mode" is enabled: 100 dB or above (1 kHz, IHF-A, load impedance: 22 kΩ)
Total harmonic distortion (Input from the LINE IN jack, output from LINE OUT jack when recording/playing back ^{*9})	0.009% or below (1 kHz, 20 kHz LPF, load impedance: 22 kΩ)
Maximum sound pressure (built-in microphones)	123 dB SPL
Intrinsic noise (built-in microphones)	22 dB SPL(A) Typ
Bluetooth	<ul style="list-style-type: none"> Communication method: Bluetooth Standard version 4.0 Maximum communication range ^{*7}: approx. 10 m (33 ft) (line of sight range) Frequency band: 2.4 GHz band (2.4000 GHz - 2.4835 GHz) Modulation method: FHSS Compatible Bluetooth profiles^{*10}: SPP 1.2 (Serial Port Profile), AZDP 1.3 (Advanced Audio Distribution Profile), AVRCP 1.3 (Audio Video Remote Control Profile) Maximum number of devices that can be registered: 8 (total number of the device with REC Remote installed and audio devices) Supported Codec ^{*11}: SBC (Subband Codec)
Built-in speaker	Approx. 16 mm (0.63 in) dia.
Input/output	<ul style="list-style-type: none"> MIC IN/LINE IN jack (stereo mini-jack) MIC (MIC ATT: 0) Input impedance: 2 kΩ Rated input level: -50 dBV Minimum input level: -55 dBV
	<ul style="list-style-type: none"> LINE Input impedance: 8.2 kΩ Rated input level: +4 dBV Minimum input level: -10 dBV Maximum input level: +10 dBV

- Continued on next page -

PCM-D10

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Input/output	<ul style="list-style-type: none">• XLR/TRS jack(s) MIC (MIC ATT: 0) Input impedance: 32 kΩ (phantom power: OFF) Rated input level: -48 dBu Minimum input level: -58 dBu LINE Input impedance: 12 kΩ Rated input level: +6 dBu Minimum input level: -3 dBu Maximum input level: +12 dBu• Headphone jack (stereo mini-jack) Rated output level: 400 mV Maximum output level: 35 mW + 35 mW or above (load impedance: 16 Ω) Recommended load impedance: 16 Ω to 32 Ω• LINE OUT jack (stereo mini-jack) Output impedance: 220 Ω Rated output level: +4 dBV Recommended load impedance: 22 kΩ• USB port (USB Type-C port) Hi-speed USB compatible• Card slot: SD card slot
Playback speed control (DPC)	<ul style="list-style-type: none">• 1.00 times - 0.25 times: FLAC files with the sampling frequency at 88.2 kHz or above• 2.00 times - 0.25 times: LPCM files with the sampling frequency at 88.2 kHz or above, FLAC files with the sampling frequency below 88.2 kHz• 3.00 times - 0.25 times: other than the above
Speaker maximum power output	200 mW
Power requirements	Four LR6 (size AA) alkaline batteries (supplied): 6 V DC Four nickel metal hydride rechargeable batteries NH-AA (not supplied): 4.8 V DC
Ambient conditions	Operating temperature: 5 °C - 35 °C (41 °F - 95 °F) Operating humidity: 25 % - 75 % Storage temperature: -10 °C - +45 °C (14 °F - 113 °F) Storage humidity: 25 % - 75 %
Dimensions (not including projecting parts and controls)	Approx. 80.2 mm x 197.6 mm x 37.4 mm (3.16 in x 7.78 in x 1.48 in) (Width/Height/Depth)
Mass	Approx. 480 g (16.94 oz) (including batteries)
Supplied accessories	USB Type-C™ cable (USB-A to USB-C) (1) Carrying pouch (1) Wind screen (1) Sony LR6 (size AA) alkaline batteries (4) Operating Instructions SOUND FORGE Audio Studio 12 Installation Guide (1)

^{*1} A small amount of the built-in memory is used for file management and therefore not available for user storage.
^{*2} Applies when the built-in memory is formatted by the linear PCM recorder.
^{*3} Not all encoders are supported.
^{*4} Playback of the MP3 files recorded by the linear PCM recorder is also supported.
^{*5} WMA Ver.9 is compatible, however, MBR (Multi Bit Rate), Lossless, Professional, and Voice are not supported.
^{*6} Copyright-protected files are not available for playback.
^{*7} Applies to the following recording modes:
-- LPCM 192 kHz 24 bit
-- LPCM 176.4 kHz 24 bit
-- LPCM 96 kHz 24 bit
-- LPCM 88.2 kHz 24 bit
-- LPCM 48 kHz 24 bit
-- LPCM 44.1 kHz 24 bit
^{*8} Applies to the following recording modes:
-- LPCM 192 kHz 24 bit
-- LPCM 176.4 kHz 24 bit
-- LPCM 96 kHz 16/24 bit
-- LPCM 88.2 kHz 16/24 bit
-- LPCM 48 kHz 16/24 bit
-- LPCM 44.1 kHz 16/24 bit
^{*9} Varies depending on the communication conditions.
^{*10} A Bluetooth profile is a specification that standardizes features of individual characteristics of the Bluetooth device.
^{*11} Audio compression conversion method

Design and specifications are subject to change without notice.

Maximum recordable time*

The total maximum recordable time of all the folders is as follows.

REC Mode	Built-in memory
LPCM 192kHz/24bit (STEREO)	3 hours 15 minutes
LPCM 176.4kHz/24bit (STEREO)	3 hours 35 minutes
LPCM 96kHz/24bit (STEREO)	6 hours 35 minutes
LPCM 96kHz/16bit (STEREO)	9 hours 55 minutes
LPCM 88.2kHz/24bit (STEREO)	7 hours 10 minutes
LPCM 88.2kHz/16bit (STEREO)	10 hours 45 minutes
LPCM 48kHz/24bit (STEREO)	13 hours 15 minutes
LPCM 48kHz/16bit (STEREO)	19 hours 50 minutes
LPCM 44.1kHz/24bit (STEREO)	14 hours 25 minutes
LPCM 44.1kHz/16bit (STEREO)	21 hours 35 minutes
MP3 320 kbps (STEREO)	95 hours 25 minutes
MP3 128 kbps (STEREO)	238 hours

REC Mode	Memory card				
	16 GB	32GB	64GB	128 GB	256GB
LPCM 192kHz/24bit (STEREO)	3 hours 40 minutes	7 hours 25 minutes	14 hours 50 minutes	29 hours 45 minutes	59 hours 35 minutes
LPCM 176.4kHz/24bit (STEREO)	4 hours	8 hours 5 minutes	16 hours 10 minutes	32 hours 25 minutes	64 hours 55 minutes
LPCM 96kHz/24bit (STEREO)	7 hours 25 minutes	14hours 50 minutes	29 hours 45 minutes	59 hours 35 minutes	119 hours
LPCM 96kHz/16bit (STEREO)	11 hours 10 minutes	22 hours 20 minutes	44 hours 40 minutes	89 hours 25 minutes	178 hours
LPCM 88.2kHz/24bit (STEREO)	8 hours 5 minutes	16 hours 10 minutes	32 hours 25 minutes	64 hours 55 minutes	129 hours
LPCM 88.2kHz/16bit (STEREO)	12 hours 10 minutes	24 hours 20 minutes	48 hours 40 minutes	97 hours 20 minutes	194 hours
LPCM 48kHz/24bit (STEREO)	14 hours 50 minutes	29 hours 45 minutes	59 hours 35 minutes	119 hours	238 hours
LPCM 48kHz/16bit (STEREO)	22 hours 20 minutes	44 hours 40 minutes	89 hours 25 minutes	178 hours	357 hours

REC Mode	Memory card				
	16 GB	32 GB	64GB	128GB	256 GB
LPCM 44.1kHz/24bit (STEREO)	16 hours 10 minutes	32 hours 25 minutes	64 hours 55 minutes	124 hours	259 hours
LPCM 44.1kHz/16bit (STEREO)	24 hours 20 minutes	48 hours 40 minutes	97 hours 20 minutes	194 hours	389 hours
MP3 320 kbps (STEREO)	107 hours	214 hours	429 hours	858 hours	1,717 hours
MP3 128 kbps (STEREO)	268 hours	536 hours	1,073 hours	2,147 hours	4,294 hours

^{*} The maximum recordable time in this topic is provided for your reference only, and may differ depending on the card specifications.

Maximum recordable time per file^{*1 *2}

The maximum recordable times provided here are all approximate.

REC Mode	Built-in memory
LPCM 192kHz/24bit (STEREO)	1 hour
LPCM 96kHz/24bit (STEREO)	2 hours
LPCM 44.1kHz/16bit (STEREO)	6 hours 45 minutes
MP3 320 kbps (STEREO)	7 hours 25 minutes
MP3 128 kbps (STEREO)	18 hours 30 minutes

^{*1} The maximum recordable time in this topic is provided for your reference only.
^{*2} If the file size reaches the maximum limit (4 GB for an LPCM file, and 1 GB for an MP3 file) during recording, the file will be divided.

The maximum playback time of a music file/number of files *

Bit rate	Playback time	Number of files
128 kbps	238 hours	3,570 files
256 kbps	119 hours	1,785 files

^{*} In the case where MP3 files of 4 minutes each are transferred to the linear PCM recorder.

Battery life

When using alkaline batteries (Continuous using of Sony alkaline battery LR6(5G)) *

The battery's life spans provided here are all approximate.

REC Mode	Recording		Recording (Phantom power for XLR microphone: ON)		Playback built-in through speakers	Playback with headphones	Recording with REC Remote	Playback via the Bluetooth connection
	while monitoring	not while monitoring	while monitoring	not while monitoring				
LPCM 192kHz/24bit (STEREO)	26 hours	32 hours	6 hours	6 hours	38 hours	40 hours	22 hours	40 hours
LPCM 96kHz/24bit (STEREO)	28 hours	36 hours	6 hours	6 hours	52 hours	54 hours	24 hours	48 hours
LPCM 48kHz/24bit (STEREO)	30 hours	44 hours	6 hours	6 hours	60 hours	62 hours	26 hours	54 hours
LPCM 44.1kHz/16bit (STEREO)	30 hours	44 hours	6 hours	6 hours	62hours	70 hours	26 hours	56 hours
MP3 320kbps (STEREO)	30 hours	44 hours	6 hours	6 hours	64 hours	74 hours	26 hours	60 hours

^{*} Measured values acquired under our measurement conditions. The battery life may shorten depending on how you operate the linear PCM recorder.

System requirements

When you use the linear PCM recorder connected to a computer or as a USB mass storage device, your computer must meet the operating system requirements and port environment described below.

To use your computer with the SOUND FORGE Audio Studio 12 software, refer to "SOUND FORGE Audio Studio 12 Installation Guide" (supplied separately).

Operating systems

- Windows 10/Windows 8.1/Windows 7 (Service Pack 1 or higher)
- macOS (v10.10 - v10.14)

Note

- One of the above operating systems should be by default pre-installed. Any operating system other than those indicated above, upgraded operating systems or multi-boot environment are not supported.
- For the latest version information and compatibility with your operating system, please access the customer support home page (page 85) for the linear PCM recorder.

Hardware environment

- Port: USB port
- Disc drive: To create a music CD, you need a CD-R/RW drive.

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Notes on the License

This linear PCM recorder comes with software that are used based on licensing agreements with the owners of that software.

Based on requests by the owners of copyright of these software applications, we have an obligation to inform you of the following.

Please read the following sections.

Licenses (in English) are recorded in the built-in memory of your linear PCM recorder.

Establish a Mass Storage connection between the linear PCM recorder and a computer to read licenses in the "LICENSE" folder.

On GNU GPL/LGPL applied software

The software that is eligible for the following GNU General Public License (hereinafter referred to as "GPL") or GNU Lesser General Public License (hereinafter referred to as "LGPL") are included in the linear PCM recorder.

This informs you that you have a right to have access to, modify, and redistribute source code for these software programs under the conditions of the supplied GPL/LGPL.

Source code is provided on the web. Use the following URL to download it.

<http://www.sony.net/Products/Linux/>

We would prefer you do not contact us about the contents of source code.

Licenses (in English) are recorded in the built-in memory of your linear PCM recorder.

Establish a Mass Storage connection between the linear PCM recorder and a computer to read licenses in the "LICENSE" folder.

- Compatible iPhone models
iPhone X, iPhone 8, iPhone 8 Plus, iPhone 7, iPhone 7 Plus, iPhone SE, iPhone 6s, iPhone 6s Plus, iPhone 6, iPhone 6 Plus, iPhone 5s, iPhone 5c, iPhone 5



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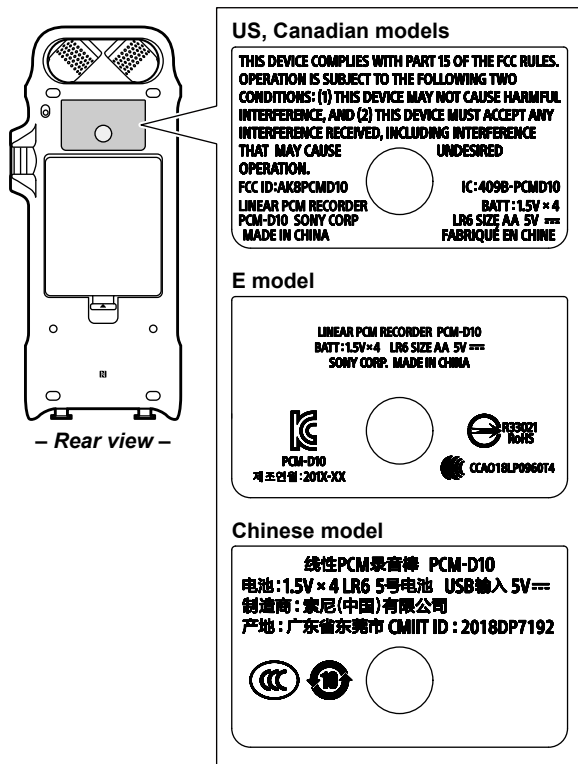
SECTION 1
SERVICING NOTES

The **SERVICING NOTES** contains important information for servicing. Be sure to read this section before repairing the unit.

MODEL IDENTIFICATION

It can identify the destination by checking the model number label affixed to the rear side of the main unit. Refer to the figure below.

Note: Print contents of the model number label may be changed in the mid-way of production.

**PROCESSING AFTER THE COMPLETION OF REPAIRS**

After the repair of the main unit has been completed all, before returning the main unit to customer, be sure to execute “4-12. Factory Shipment” on page 55.

Executing “Factory Shipment” will initialize the built-in memory files and settings. Backup the built-in memory files to a PC or SD card etc. beforehand, and after executing “Factory Shipment”, transfer the files to the same folder in the main unit again.

For the method of backup, refer to “BACKUP OF THE BUILT-IN MEMORY FILES” on the right.

BACKUP OF THE BUILT-IN MEMORY FILES

Before repairing this unit, save each data recorded in the built-in memory to a PC or SD card.

Note 1: This section explains how to use for Windows PC. When using a MAC, refer to the operating instructions or the help guide of this unit.

1. Save each data recorded in the built-in memory to a PC**1-1. Beforehand preparation**

Prepare the following equipment etc.

- PC (Windows 7 Service Pack 1 or later)
- USB Type-C cable
- Size AA batteries (4)

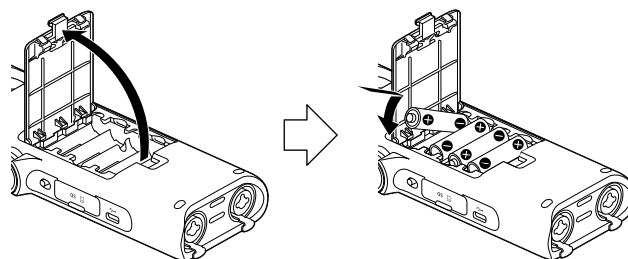
Open the battery lid on the rear side of main unit, install the four size AA batteries.

Note 2: Use the following batteries so that the batteries will not run out during work.

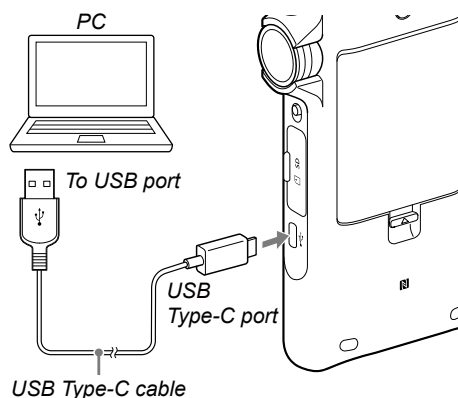
New alkaline battery

or

Fully charged Ni-MH battery

**1-2. Connect this unit to a PC**

Use the USB Type-C cable to connect the USB Type-C terminal of this unit to the USB port of the running PC.

**1-3. Check that the PC is correctly recognizing this unit**

Open the “Computer” and check that “PCMRECORDER” or “MEMORY CARD” is newly recognized.

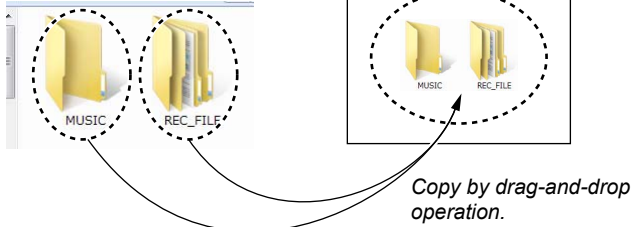
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1-4. Copy the data of the built-in memory of this unit to the PC

Open the “PCMRECORDER” or “MEMORY CARD” on the PC, and copy the contained folders and files to the local disk (locations anywhere) of the PC by drag-and-drop operation.

In the “PCMRECORDER” or “MEMORY CARD” storage

Note 3: Folder name and number of folders in the figure below are reference examples.

**1-5. Disconnect the connection between this unit and a PC**

To disconnect the connection between the this unit and a PC, be sure to release it by the following procedure.

If you do not disconnect in this procedure, the data may be damaged.

Note 4: For details on how to release it from the PC, refer to the operating instructions of your PC.

Release procedure:

1. Click the “Safely Remove Hardware and Eject Media” icon on the task bar at the bottom right of the screen of the PC.

Note 5: The figure below is a Windows 7 display example.

Bottom right of the screen of the PC



2. Click “Eject PCMRECORDER” or “Eject IC RECORDER”.
3. Release the USB Type-C cable from the PC and release the connection between the this unit and the PC.

2. Save the data recorded in the built-in memory to the SD card**2-1. Beforehand preparation**

Open the battery lid on the rear side of main unit, install the four size AA batteries.

Note 1: Use the following batteries so that the batteries will not run out during work.

New alkaline battery

or

Fully charged Ni-MH battery

2-2. Perform moving/copying a file

Follow the procedure below to operate this unit.

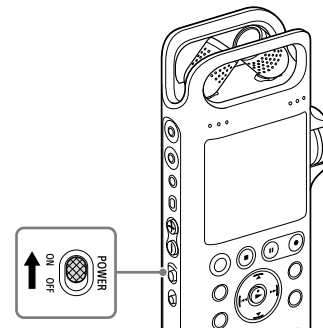
Note 2: This section explains how to “copy”. If you want to “move” the data, please perform the “move” operation.

Note 3: Cannot move a protected file. To move the file, release the protection first, and then move the file.

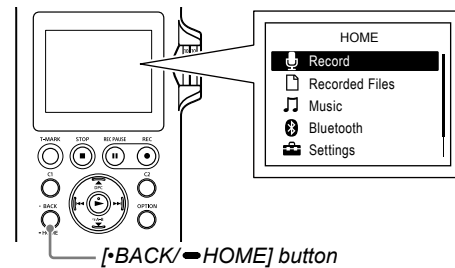
Note 4: Cannot move or copy the files managed under “Music”.

Moving/copying procedure:

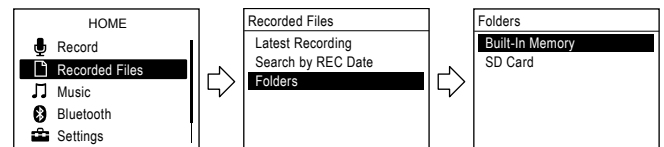
1. Turn the power on by turning ON of the [POWER] switch on the left side of main unit.



2. Press the [•BACK/◀HOME] button for about 1 second or longer to display the home menu.



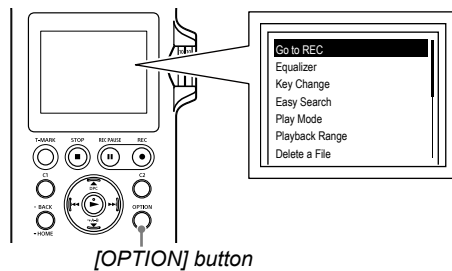
3. Press the [▲ DPC]/[◀A-B ▼] buttons to select the “Recorded Files” → “Folders” → “Built-In Memory” in this order.



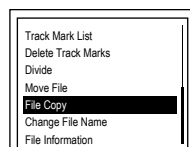
4. Press the [▲ DPC]/[◀A-B ▼] buttons to select the folder from the built-in memory, then select the file you want to move or copy.

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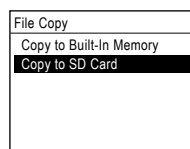
5. While playback or stopping the file you want to move or copy, press the [OPTION] button to display the option menu.



6. Press the [▲ DPC]/[◀ A-B ▼] buttons to select the “File Copy” in the option menu and press the [▶] button.



7. Press the [▲ DPC]/[◀ A-B ▼] buttons to select the “Copy to SD Card” in the option menu and press the [▶] button.



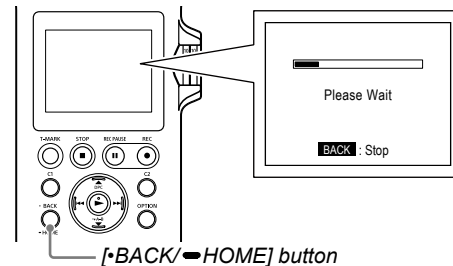
8. Press the [▲ DPC]/[◀ A-B ▼] buttons to select the desired destination folder and press the [▶] button.
9. When all copying is completed, turn off the power of this unit, remove the SD card from this unit, and keep it carefully until the repair work is over.

2-3. Cancel moving/copying the file

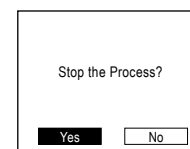
To cancel moving or copying, follow the procedure below to operate this unit.

Moving/copying canceling procedure:

1. While displaying “Please Wait” in the display window of this unit, press the [•BACK/◀ HOME] button.

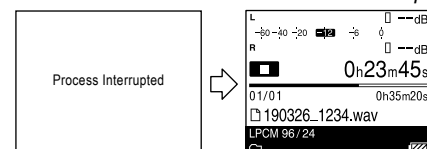


2. Check that the message “Stop the Process?” is displayed, press the [◀◀]/[▶▶] buttons to select the “Yes” and press the [▶] button.



3. The message “Process Interrupted” is displayed, and after the moving/copying processing is canceled, the screen is return to the playback stopped.

(The screen shown below is a reference example)



DESTINATION SETTING METHOD

When the following target part replaced with new part, set up the destination according to the procedure in this section.

Target part:

Complete MAIN board

IMPORTANT:

Be sure to select the correct destination. It is a compliance violation to change the destination to other regions.

Note 1: The information which are not opened to customers are included in the destination setting method. After you are cautious of handling of information, execute work under the sufficient administration.

Note 2: There is a step of executing "Factory Shipment" in the destination setting method. Executing "Factory Shipment" will initialize the built-in memory files and settings. Backup the built-in memory files to a PC or SD card beforehand.

Beforehand preparation:

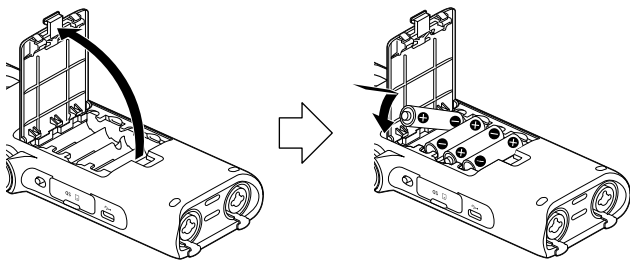
- Open the battery lid on the rear side of main unit, install the four size AA batteries.

Note 3: Use the following batteries so that the batteries will not run out during work.

New alkaline battery

or

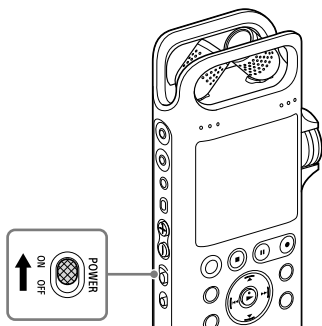
Fully charged Ni-MH battery



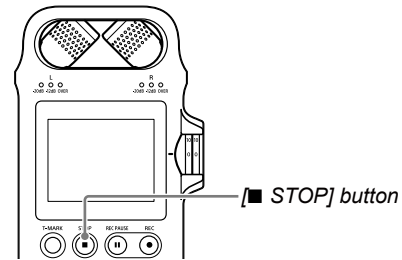
- Refer to "BACKUP OF THE BUILT-IN MEMORY FILES" on page 5, be sure to backup the files have been recorded in the built-in memory beforehand.

Destination setting procedure:

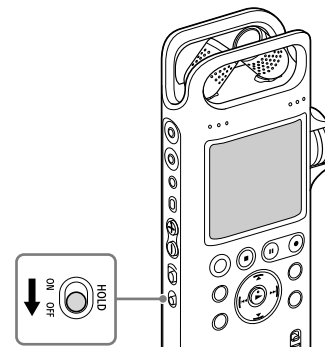
- Turn the power on by turning ON of the [POWER] switch on the left side of main unit.



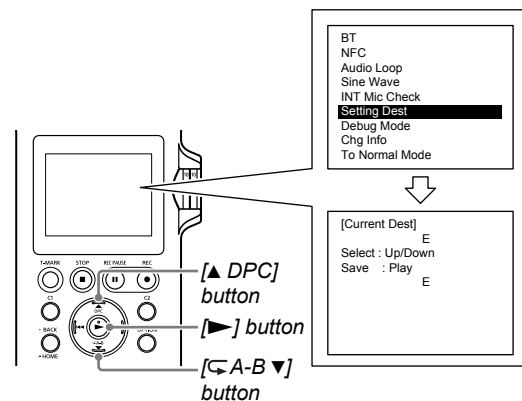
- Turn the stopped state by pressing the [■ STOP] on the front side of main unit.



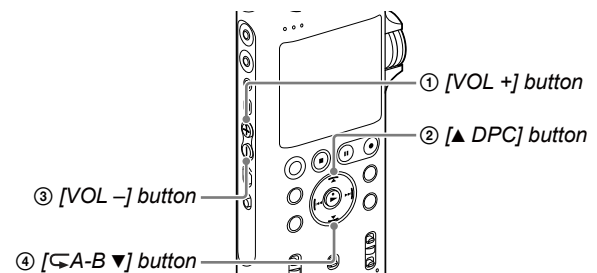
- Refer to "1. SETTING THE TEST MODE" on page 51 and set the this unit to test mode.
- Turn off the [HOLD] switch with state displayed the test mode menu.



- Press the [▲ DPC]/[◀ A-B ▼] buttons to select the "Setting Dest" and press the [▶] button to decision.



- Press the buttons in the following order.
① [VOL +] → ② [▲ DPC] → ③ [VOL -] → ④ [◀ A-B ▼]

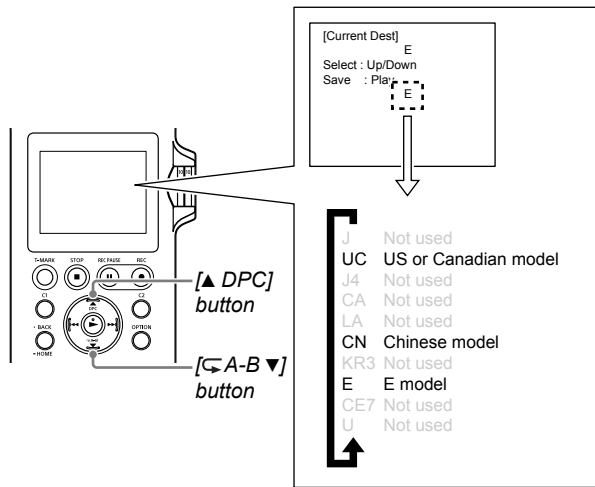


– Continued on next page –

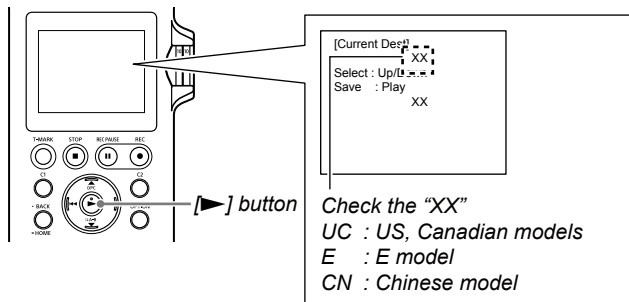
7. Press the [▲ DPC]/[↵ A-B ▼] buttons to select the destination.

Note 4: Select the “UC” for US model. (It is not “U”)

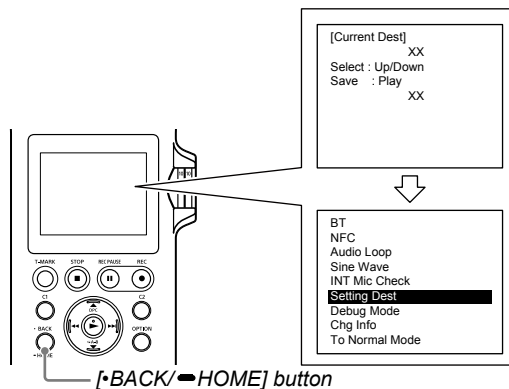
Note 5: Select the “UC” for Canadian model. (It is not “CA”)



8. After selecting the destination, press the [▶] button to decision and confirm that the set destination is displayed under “[Current Dest]” on the screen.

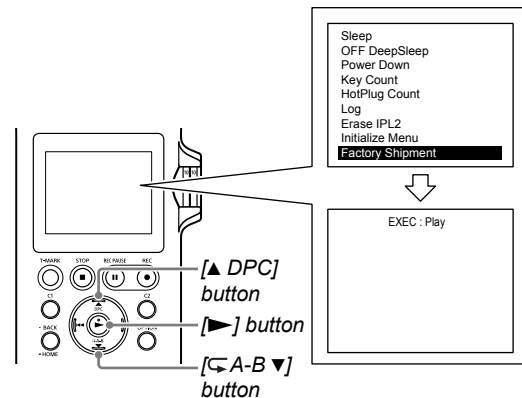


9. Press the [•BACK/◀HOME] button to display the test mode menu.



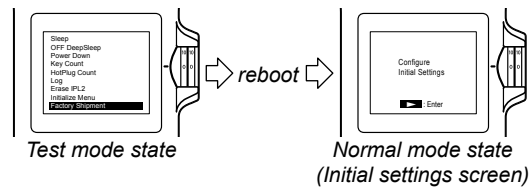
10. Press the [▲ DPC]/[↵ A-B ▼] buttons to select the “Factory Shipment” and press the [▶] button to execute.

Note 6: When “Factory Shipment” is executed, “BD address”, “iSerial” and “LCD contrast” are not initialized. Files, menu settings and clock display of the built-in memory is all initialized.



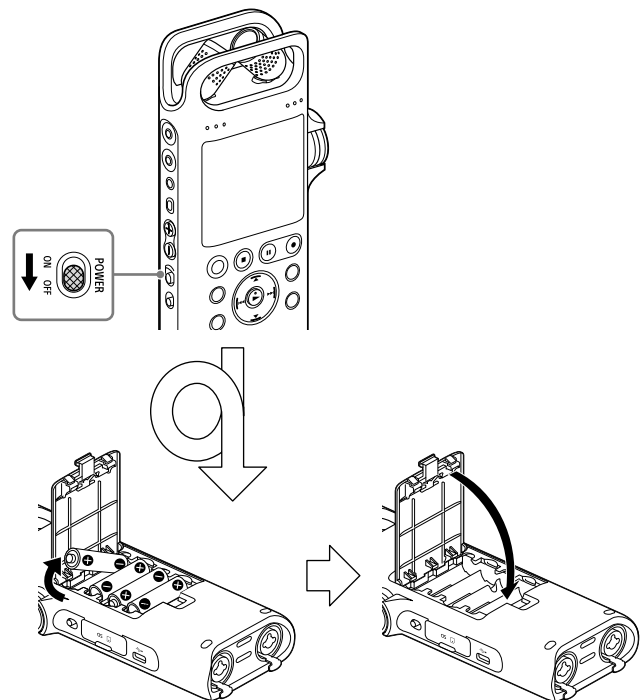
11. After “Factory Shipment” is completed, the state of the test mode is released and the unit reboot automatically (it starts up in the normal mode).

After the reboot, when the initial settings screen is displayed, then perform the initial setting such as date etc.



12. The file of built-in memory that was backup beforehand, return to the same folder of this unit.

13. Turn off the power of this unit, remove the battery, and complete the destination setting work.



BLUETOOTH CONNECTION CHECKING METHOD

When the following target part replaced with new part, follow the procedure in this section to check the Bluetooth connection.

In the Bluetooth connection check, it is necessary to check the following three points.

1. The BD address is displayed correctly.
(It is written correctly on this unit)
2. Bluetooth connection of this unit with the smartphone on which REC Remote is installed can be done correctly.
3. The Bluetooth connection of this unit can keep connection at a practical distance.

Target part:

Complete MAIN board

Complete SW_L board

Note 1: There is a step of executing "Factory Shipment" in the Bluetooth connection checking method. Executing "Factory Shipment" will initialize the built-in memory files and settings. Backup the built-in memory files to a PC or SD card beforehand.

Beforehand preparation:

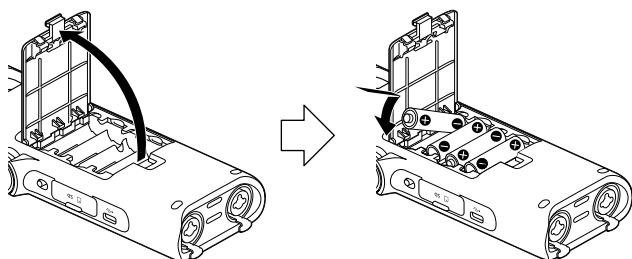
- Open the battery lid on the rear side of main unit, install the four size AA batteries.

Note 2: Use the following batteries so that the batteries will not run out during work.

New alkaline battery

or

Fully charged Ni-MH battery



- Refer to "BACKUP OF THE BUILT-IN MEMORY FILES" on page 5, be sure to backup the files have been recorded in the built-in memory beforehand.
- Prepare a smartphone etc. on which the REC Remote application is installed.

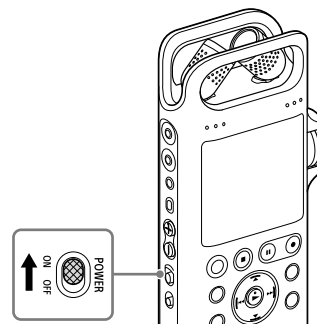
Note 3: REC Remote application is download from Google Play™ or App Store. Refer to help guide for REC Remote application installation method details.

1. Check that the BD address is displayed correctly

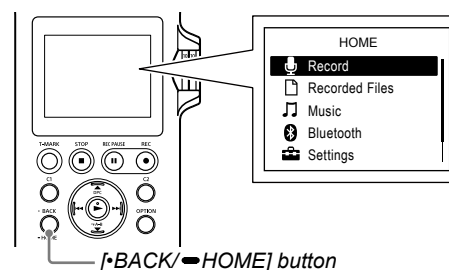
Operate according to the following procedure and check that the BD address of the unit is displayed correctly.

Procedure:

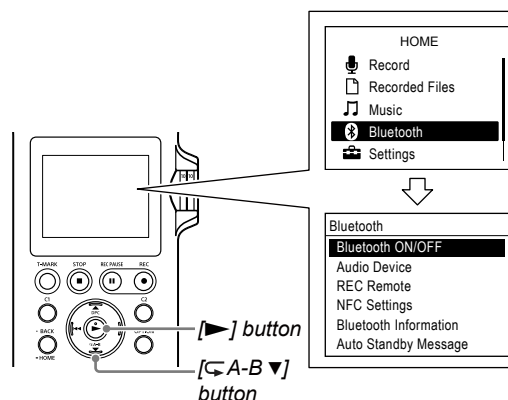
1. Turn the power on by turning ON of the [POWER] switch on the left side of main unit.



2. Press the [•BACK/◀HOME] button for about 1 second or longer to display the home menu.

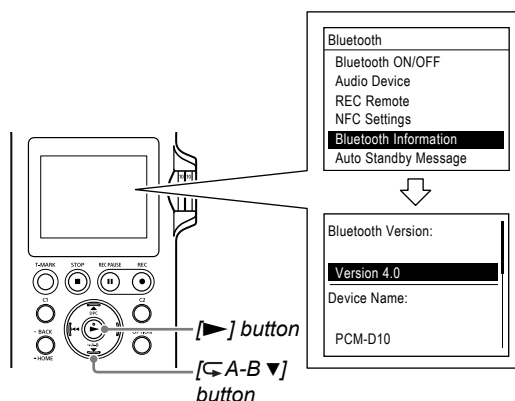


3. Press the [◀A-B ▼] button to select the "Bluetooth" and press the [▶] button to decision.

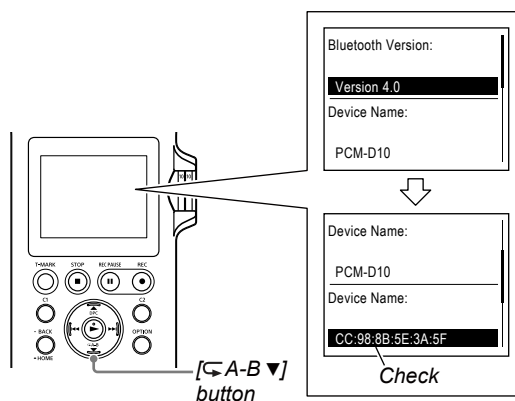


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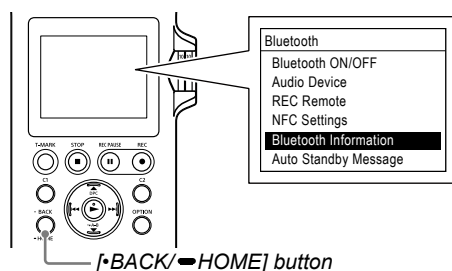
4. Press the [↵A-B ▼] button to select the “Bluetooth Information” and press the [▶] button to decision.



5. Press the [↵A-B ▼] button, scroll the screen and check that the BD address is correctly displayed under “BD address:”.
(Displayed characters/values in the following figure are example)



6. Press the [•BACK/◀HOME] button to display the Bluetooth menu.



2. Check that Bluetooth connection of this unit with the smartphone on which REC Remote is installed can be done correctly

Continue from the state of step 6 on the left and operate according to the following procedure to check that the Bluetooth connection of this unit and the smartphone that installed REC Remote can be done correctly.

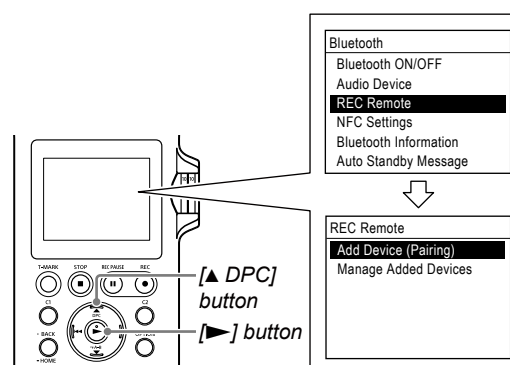
Note 1: Prepare a smartphone etc. on which the REC Remote application is installed.

Note 2: Refer to help guide for REC Remote application installation and operation method details.

Procedure:

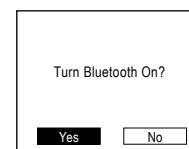
Note 3: The procedure is shown from the continuation of step 6 on the left.

1. Press the [▲DPC] button to select the “REC Remote” and press the [▶] button to decision.



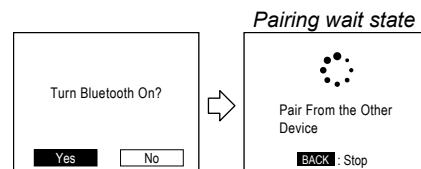
2. Press the [▲DPC]/[↵A-B ▼] buttons to select the “Add Device (Pairing)” and press the [▶] button to decision.

Note 4: If the Bluetooth function of this unit is turned off, “Turn Bluetooth On?” is displayed on the screen.

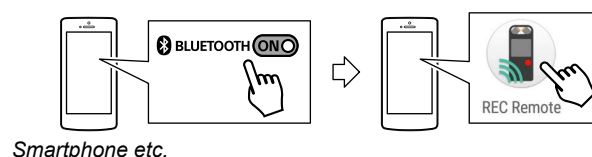


3. When “Turn Bluetooth On?” message is displayed, press the [◀◀]/[▶▶] buttons to select the “Yes” and press the [▶] button to decision, and the pairing wait state from the other device.

Note 5: If Bluetooth is already turned on, it will automatically enter the pairing wait state after the operation in step 2.



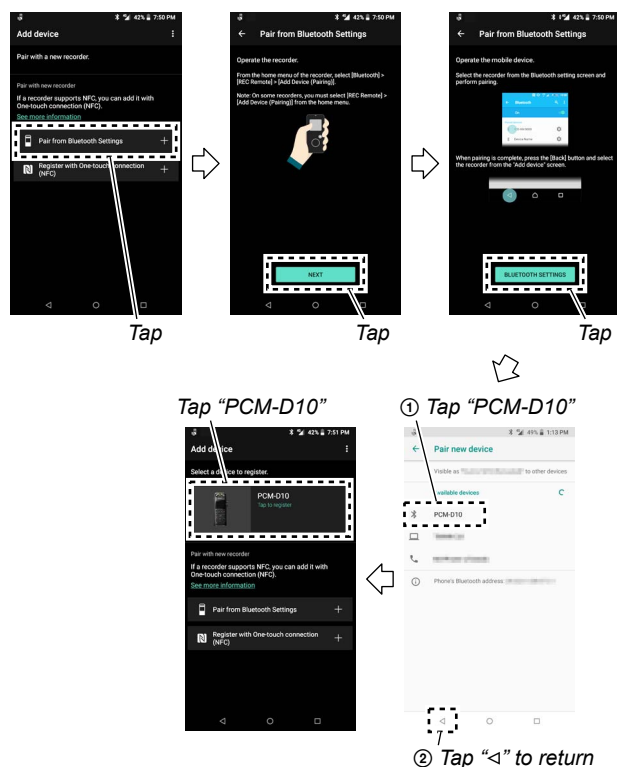
4. Turn on the Bluetooth function of the smartphone etc. and start the REC Remote.



– Continued on next page –

5. Search “PCM-D10” on a smartphone etc. and register each other equipment.

(The figure below is a reference example)



Note 6: If the device registration (pairing) information is deleted from this unit and the pairing information of this unit remains in the other device, delete the pairing information and pair again.

6. Check that you can pair with the smartphone etc. without problem.

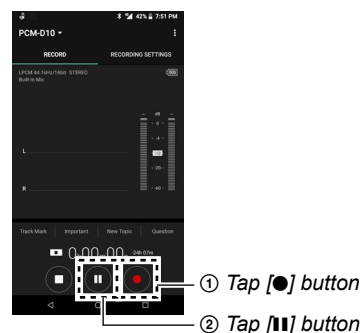
3. Check that the Bluetooth connection of this unit and the smartphone on which REC Remote is installed can keep connection at a practical distance

Continue from the state of step 6 on the left and follow the procedure below to check that the Bluetooth connection of this machine and the smartphone that installed REC Remote can keep connection at a practical distance.

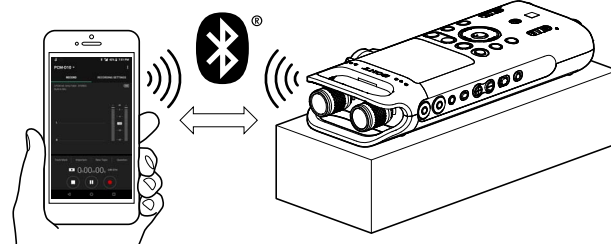
Procedure:

Note 1: The procedure is shown from the continuation of step 6 on the left.

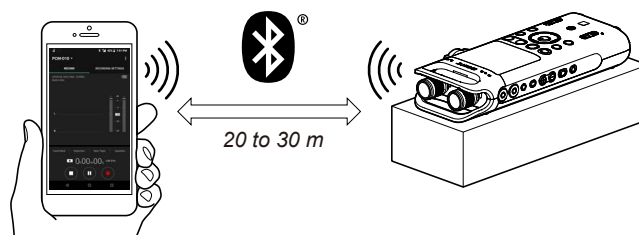
1. Tap the [● (REC)] button displayed on the smartphone etc. screen while the smartphone etc. is paired with this unit, the recording paused state is entered. Then tap [||] to start recording.



2. While the state of step 1, place the this unit on a stand, etc. Leave the smartphone etc. have hold in your hand, gradually leave 20 to 30 m from this unit.



3. Check that the connection can be kept without problems at a position 20 to 30 m away from the this unit.

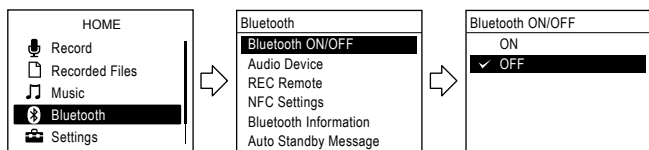


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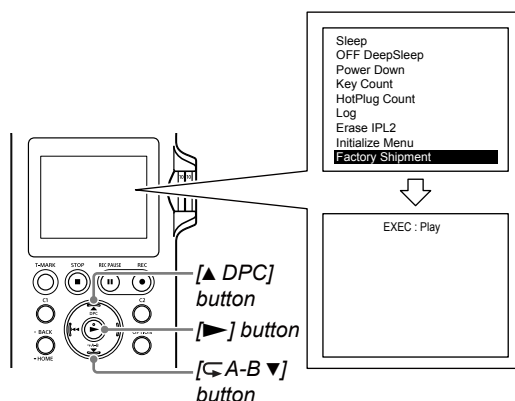
- After tapping the [■] button to finish the recording, turn off the Bluetooth function of this unit and release the Bluetooth connection of this unit and the smartphone etc.



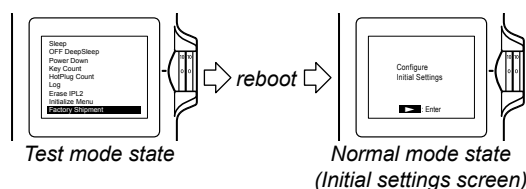
Tap [■] button



- Refer to “1. SETTING THE TEST MODE” on page 51 and set the this unit to test mode.
 - Press the [▲ DPC]/[◀ A-B ▼] buttons to select the “Factory Shipment” and press the [▶] button to execute.
- Note 2:** When “Factory Shipment” is executed, “BD address”, “iSerial” and “LCD contrast” are not initialized. Files, menu settings and clock display of the built-in memory is all initialized.

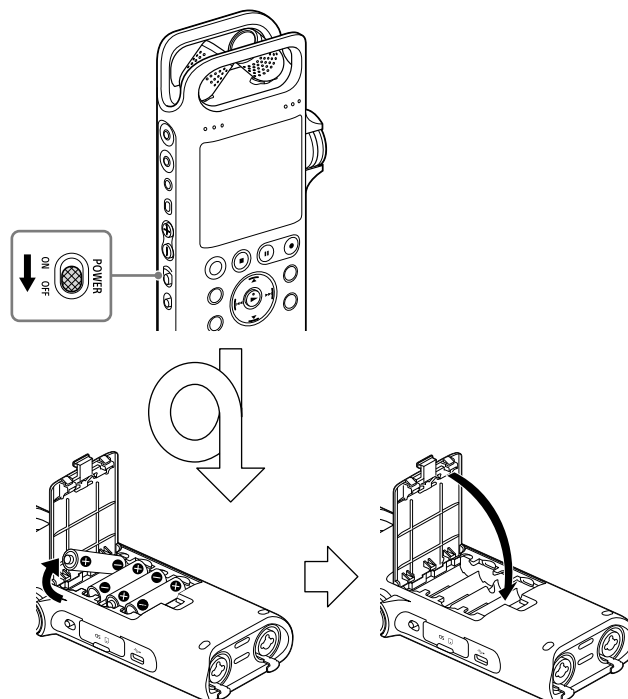


- After “Factory Shipment” is completed, the state of the test mode is released and the unit reboot automatically (it starts up in the normal mode).
After the reboot, when the initial settings screen is displayed, then perform the initial setting such as date etc.



- The file of built-in memory that was backup beforehand, return to the same folder of this unit.

- Turn off the power of this unit, remove the battery, and complete the Bluetooth connection checking work.



NFC CONNECTION CHECKING METHOD

When the replaced parts of this unit, check the connection of NFC after completion of repair.

Beforehand preparation:

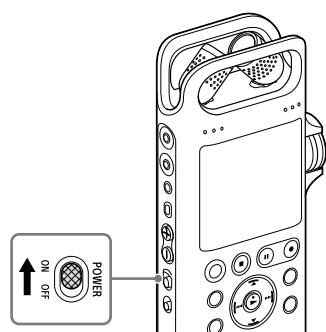
Prepare the following equipment etc.

- Bluetooth audio device with NFC function
- Size AA batteries (4)

Open the battery lid on the rear side of main unit, install the four size AA batteries.

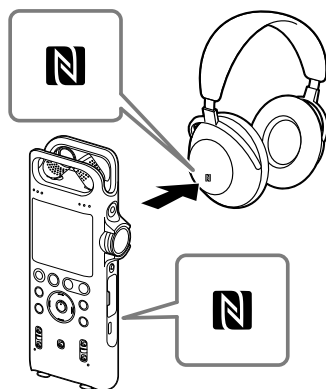
NFC connection checking procedure:

1. Turn on the NFC function of Bluetooth audio device.
2. Turn the power on by turning ON of the [POWER] switch on the left side of main unit.



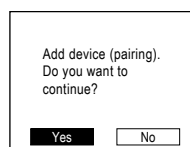
3. Touch the N mark part of this unit to the N mark part of the Bluetooth audio device.

Note 1: Continue to touch the N mark until instructed appear on screen of this unit.



4. If the NFC connection is normal, the screen shown in the figure below is displayed on the this unit.
Press the [◀◀]/[▶▶] buttons to select the “Yes” and press the [▶] button to connecting.

Note 2: If there is a problem with NFC connection, the screen shown in the figure below will not be displayed. Refer to “What to do if you can not NFC connect” on the right and check NFC connection again.

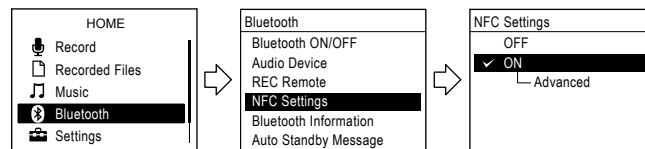


5. Touch the N mark part of this unit to the N mark part of the Bluetooth audio device and release the NFC connection.
6. After checking is completed, refer to “INITIALIZATION METHOD” on page 22 and delete the NFC connection history.

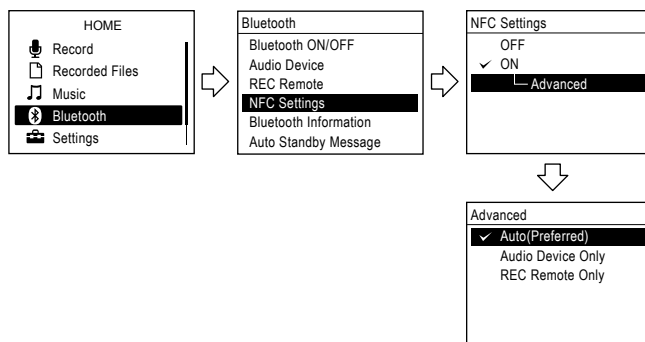
What to do if you can not NFC connect:

If can not connect, please corrective action below.

- Press the [•BACK/◀HOME] button for about 1 second or longer to display the home menu, select the “Bluetooth” → “NFC settings”, and check that “ON” is checked.
(NFC function does not work if there is no checked to “ON”)



- Press the [•BACK/◀HOME] button for about 1 second or longer to display the home menu, select the “Bluetooth” → “NFC settings” → “Advanced” and check that “Auto(Preferred)” is selected.
(If you select either “Audio Device Only” or “REC Remote Only”, NFC connection can not be made with the equipment of the unselected item)



- NFC connection can not be made during recording operation (during recording, recording pause, recording standby). Please make a connection after stopping recording.

XLR/TRS JACK CHECKING METHOD

When the following target part replaced with new part, follow the procedure in this section to check the XLR/TRS jack.

Target part:

Complete MAIN board

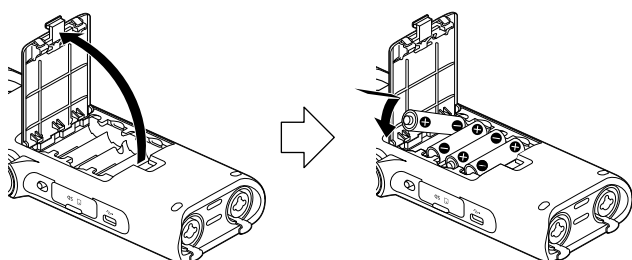
Complete SW board

SVX XLR assy (part including XLR board)

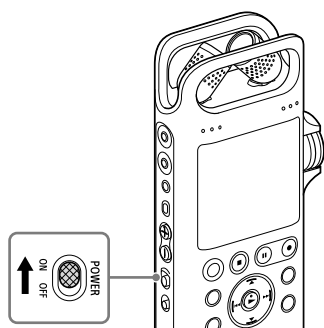
Beforehand preparation:

Prepare the following equipment etc.

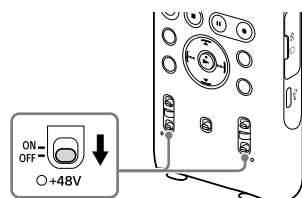
- External microphone with phantom power support (commercial products) (2)
If 2 units can not be prepared, even 1 unit can do work.
- Headphone or earphone
- Size AA batteries (4)
Open the battery lid on the rear side of main unit, install the four size AA batteries.

**XLR/TRS jack checking procedure:**

1. Turn the power on by turning ON of the [POWER] switch on the left side of main unit.



2. Set the [+48V] (phantom power switch) on the front of the main unit to the "OFF" position.



3. Connect the external microphone prepared in advance to the XLR/TRS jack of this unit.

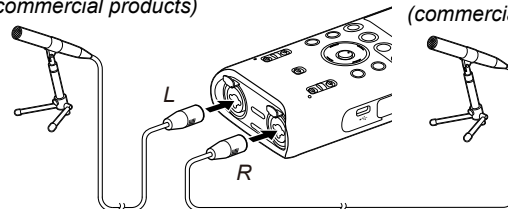
Note 1: If 2 external microphones can be prepared, connect to both XLR/TRS jacks of L/R.

If only 1 external microphone can be prepared, first connect an external microphone to the L side and record. After completing the procedure up to step 22, work from this procedure again, connect the external microphone to the R side and record. (At this time, nothing is connected to the L side)

When connecting 2 external microphones:

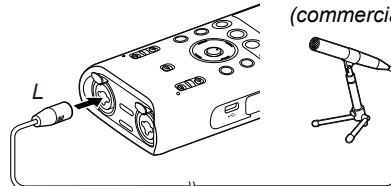
External microphone (commercial products)

External microphone (commercial products)



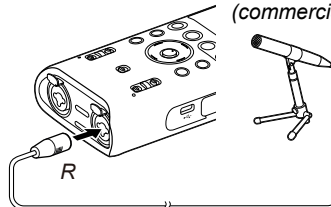
When connecting external microphones 1 at a time (first time):

External microphone (commercial products)

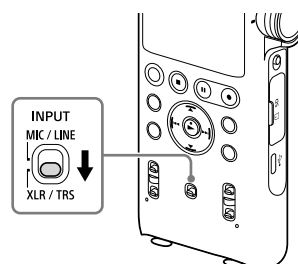


When connecting external microphones 1 at a time (second time):

External microphone (commercial products)



4. Set the [INPUT] switch on the front of the main unit to the "XLR/TRS" position.



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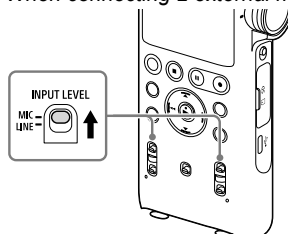
5. Set the [XLR/TRS INPUT LEVEL] switch on the front of the main unit to the “MIC” position.

Note 2: When connecting an external microphone to both the XLR/TRS jack of L/R, switch the left and right switches.

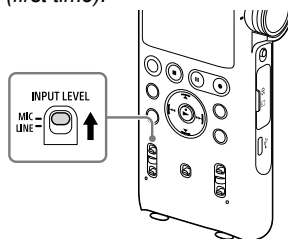
When connecting an external microphone to the L side XLR/TRS jack (first time), switch the left switch.

When connecting an external microphone to the R side XLR/TRS jack (second time), set the left switch to the “LINE” position and switch the right switch to “MIC”.

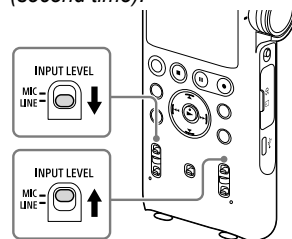
When connecting 2 external microphones:



When the external microphone is connected to the L side (first time):



When the external microphone is connected to the R side (second time):



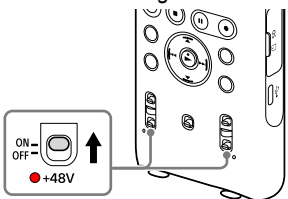
6. Set the [+48V] (phantom power switch) on the front of the main unit to the “ON” position.

Note 3: When connecting an external microphone to both the XLR/TRS jack of L/R, switch the left and right switches.

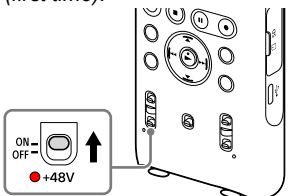
When connecting an external microphone to the L side XLR/TRS jack (first time), switch the left switch.

When connecting an external microphone to the R side XLR/TRS jack (second time), switch the right switch.

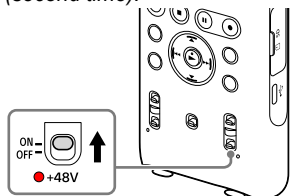
When connecting 2 external microphones:



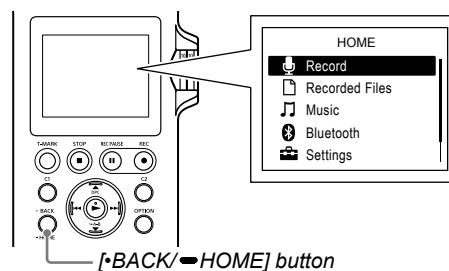
When the external microphone is connected to the L side (first time):



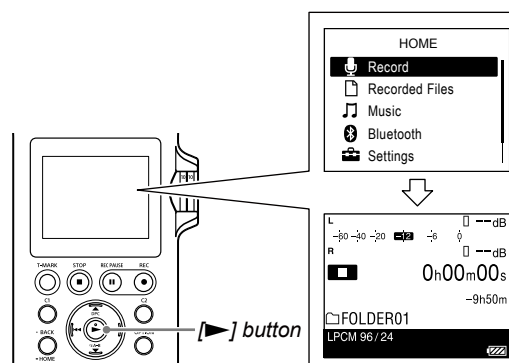
When the external microphone is connected to the R side (second time):



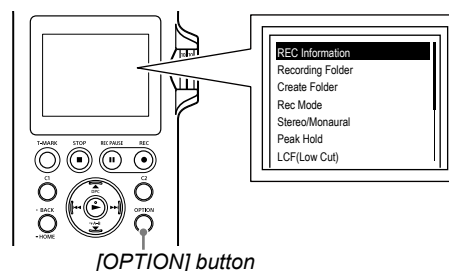
7. Press the [•BACK/◀HOME] button for about 1 second or longer to display the home menu.



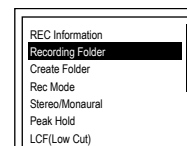
8. With “Record” selected, press the [▶] button to decision.



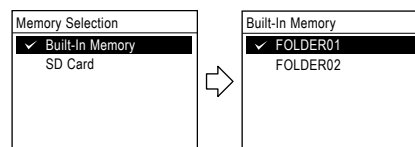
9. In the state of step 8 (recording standby), press the [OPTION] button to open the option menu.



10. Press the [▲DPC]/[◀A-B ▼] buttons to select the “Recording Folder” in the option menu and press the [▶] button to decision.



11. Select the memory (Built-In Memory or SD Card) and folder you want to save the recording.
(The figure below is a reference example)

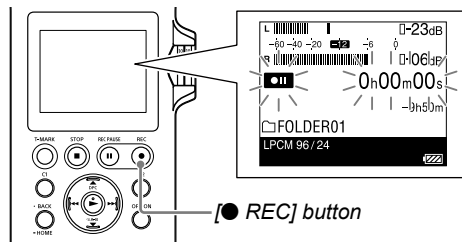


– Continued on next page –

PCM-D10

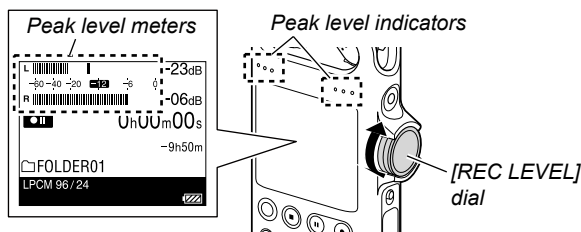
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12. Press the [● REC] button on the front of the main unit, the unit enters the recording paused state, and the [●||] and the elapsed time on the display window blink.

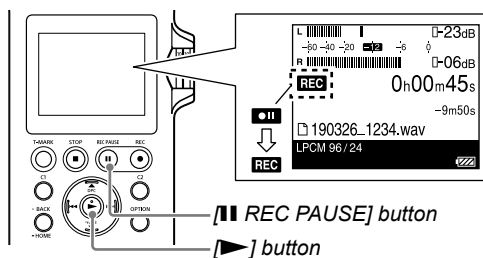


13. Turn the [REC LEVEL] dial back and forth, and adjust the recording level while watching the peak level meters on the display window.

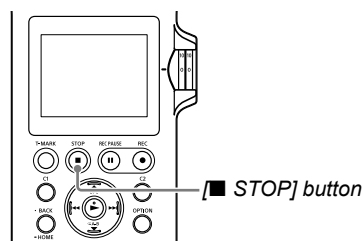
Note 4: The recording level is displayed on the peak level meter during recording. The recording level can be confirmed by both the peak level meter of the display window and the peak level indicators. Adjust the recording level within the appropriate range that matches the sound source with -12 dB as a rough estimate.



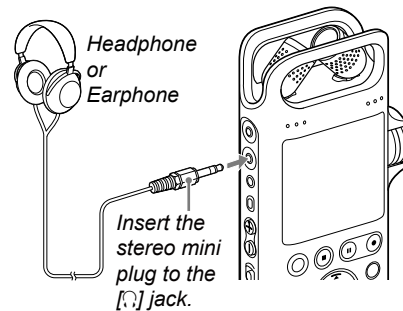
14. Press the [|| REC PAUSE] button or the [▶] button on the front of the main unit to start recording.
("REC" light up in the display window during recording)



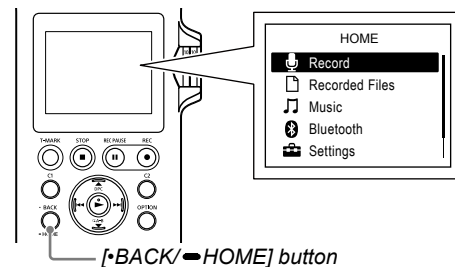
15. Press the [■ STOP] button on the front of the main unit to end recording.



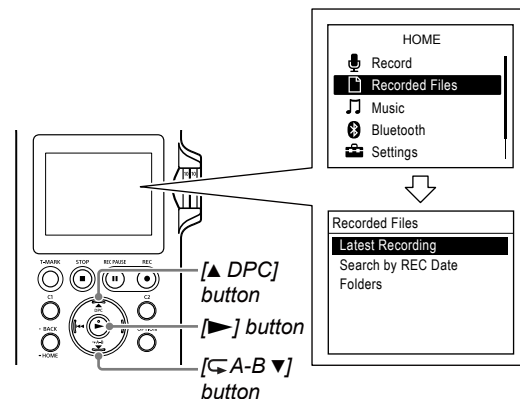
16. Connect headphone or earphone prepared in advance to the headphone jack.



17. Press the [●BACK/◀HOME] button for about 1 second or longer to display the home menu.

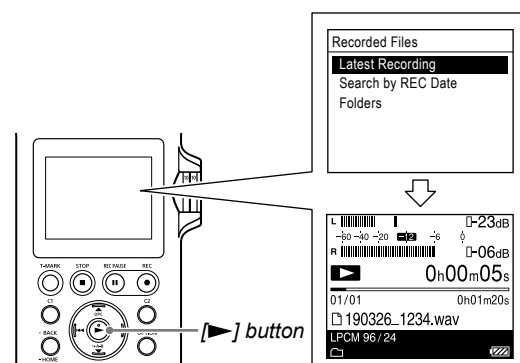


18. Press the [▲ DPC]/[◀A-B ▼] buttons to select the "Recorded Files" and press the [▶] button to decision.



19. With "Latest Recording" selected, press the [▶] button to decision.

Note 5: After decision by pressing the [▶] button, playback of the latest recorded file will start automatically.



– Continued on next page –

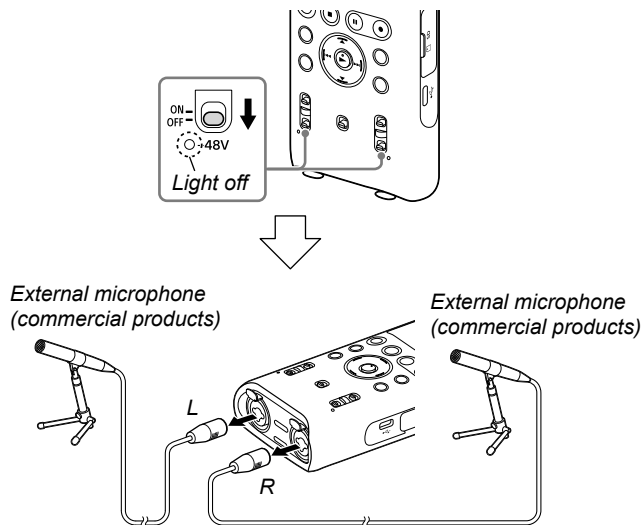
20. Check that sound is correctly output from the headphone.

Note 6: If sound can not be correctly output from the headphone, check the connection status of the XLR assy, the MAIN board, and the SW board. If there is no problem with the connection status, replace XLR assy, MAIN board, SW board with new parts respectively.

21. Remove the headphone from this unit.

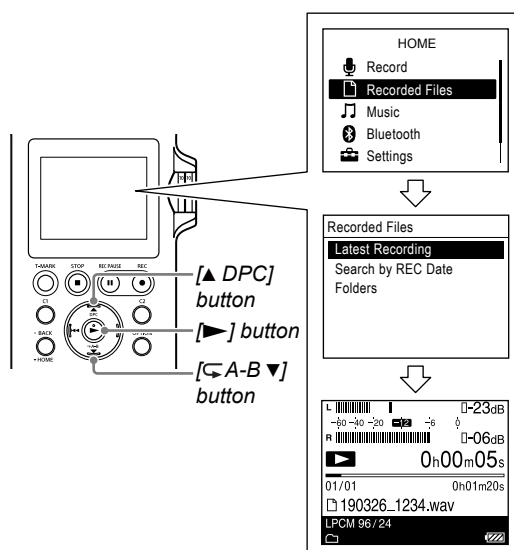
22. Set the [+48V] (phantom power switch) on the front of the main unit to the "OFF" position and check that the phantom power indicators light off before removing the external microphone from this unit.

Note 7: Before installing/removing an external microphone, be sure to set [+48V] (phantom power switch) to "OFF" position. If you connect/disconnect the cable while [+48V] (phantom power switch) is "ON", there is a possibility of large noise or damage of external equipment.



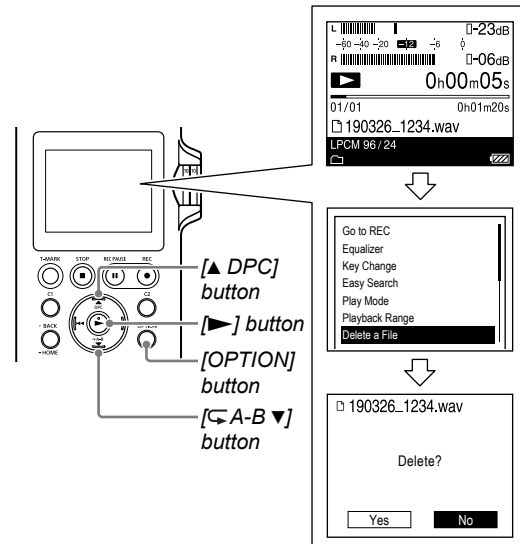
Note 8: If you connected an external microphone only on the L side, repeat the procedure from step 3 and check the R side.

23. Press the [•BACK/◀HOME] button for about 1 second or longer to display the home menu. After that, perform the operations in steps 18 and 19, select the file to be deleted and playback it.



24. While playing or stopping of a file to be deleted, press the [OPTION] button on the front of the main unit to display the option menu, select "Delete a File", then press the [▶] button to decision.

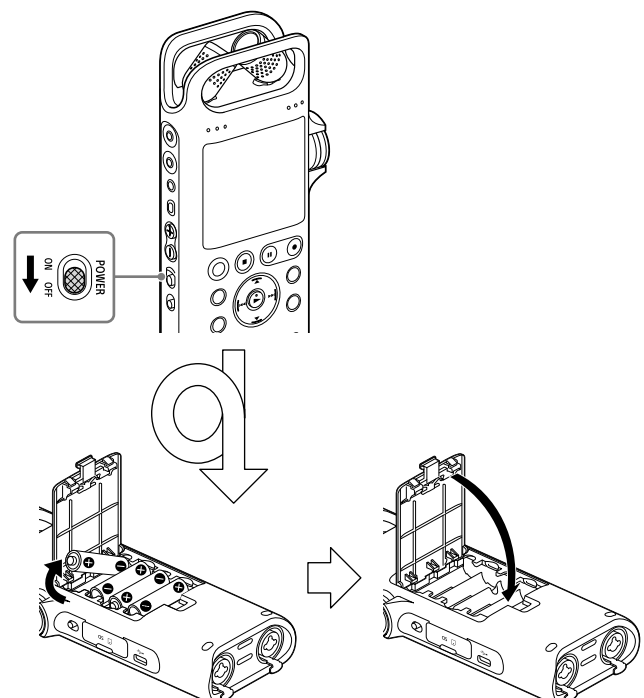
Note 9: "Delete?" is displayed and the selected file is played for confirmation.



25. Press the [◀◀]/[▶▶] buttons to select the "Yes", then press the [▶] button to decision and delete the file.

Note 10: If you are recorded twice with the L side and R side, continue to press the [OPTION] button to display the option menu, select again "Delete a File", delete two times.

26. Turn off the power of this unit, remove the battery, and complete the checking work.



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LINE OUT JACK CHECKING METHOD

When the following target part replaced with new part, follow the procedure in this section to check the LINE OUT jack.

Target part:

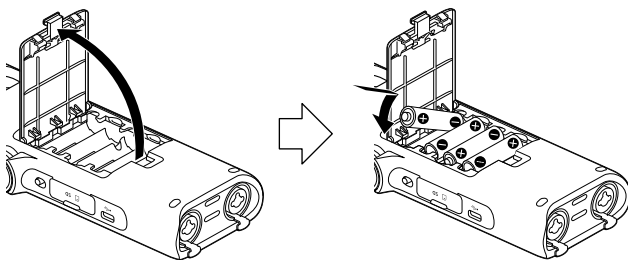
Complete MAIN board

Complete HP_LINE_JACK board

Beforehand preparation:

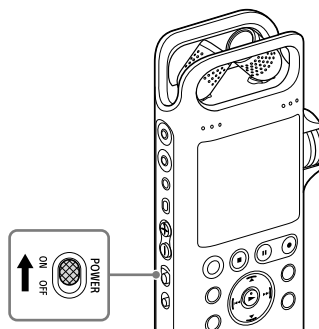
Prepare the following equipment etc.

- AV amplifier or playback device (analog)/speaker (commercial products)
- Audio cable (commercial products)
- Size AA batteries (4)
Open the battery lid on the rear side of main unit, install the four size AA batteries.

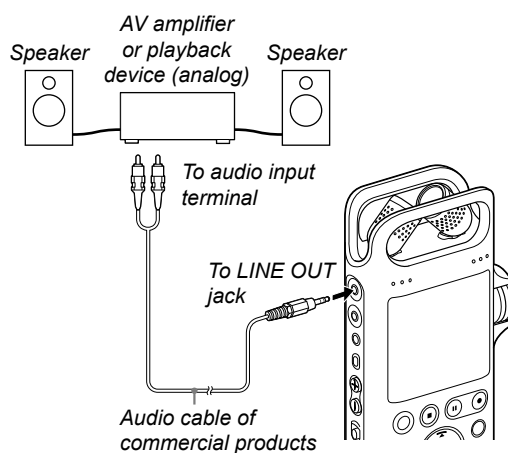


LINE OUT jack checking procedure:

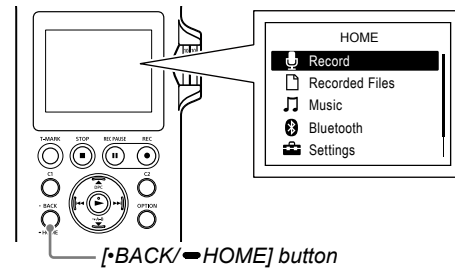
1. Turn the power on by turning ON of the [POWER] switch on the left side of main unit.



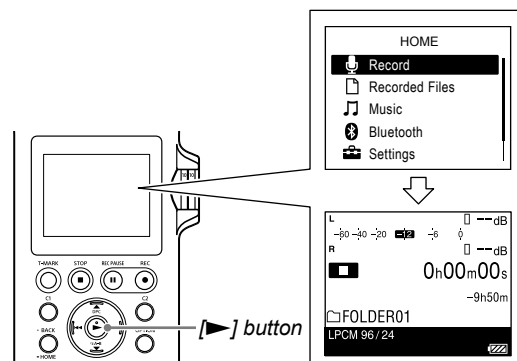
2. Connect the audio cable to the AV amplifier or playback equipment (analog) that you prepared in advance and connect it to the LINE OUT jack of this unit.



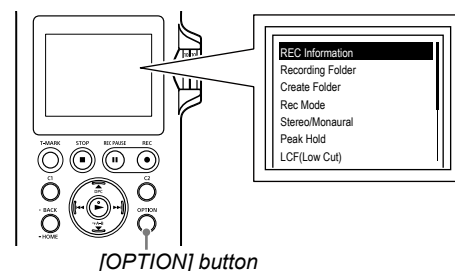
3. Press the [•BACK/◀HOME] button for about 1 second or longer to display the home menu.



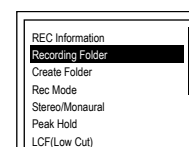
4. With “Record” selected, press the [▶] button to decision.



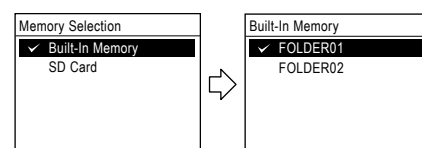
5. In the state of step 4 (recording standby), press the [OPTION] button to open the option menu.



6. Press the [▲DPC]/[◀A-B▼] buttons to select the “Recording Folder” in the option menu and press the [▶] button to decision.

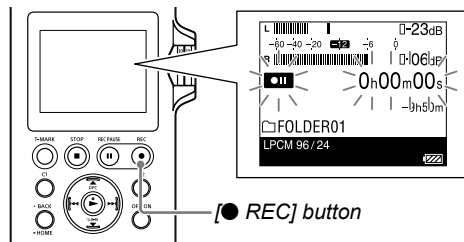


7. Select the memory (Built-In Memory or SD Card) and folder you want to save the recording.
(The figure below is a reference example)



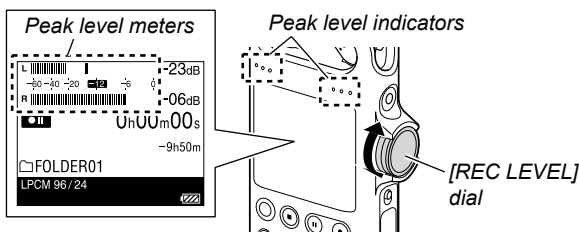
– Continued on next page –

8. Press the [● REC] button on the front of the main unit, the unit enters the recording paused state, and the [●||] and the elapsed time on the display window blink.

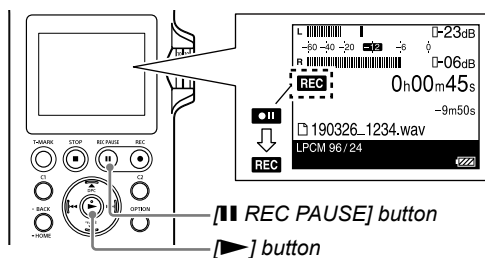


9. Turn the [REC LEVEL] dial back and forth, and adjust the recording level while watching the peak level meters on the display window.

Note 1: The recording level is displayed on the peak level meter during recording. The recording level can be confirmed by both the peak level meter of the display window and the peak level indicators. Adjust the recording level within the appropriate range that matches the sound source with -12 dB as a rough estimate.



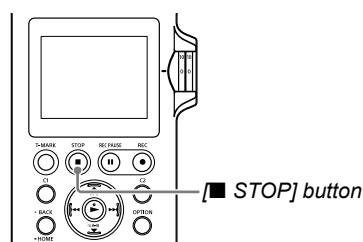
10. Press the [|| REC PAUSE] button or the [▶] button on the front of the main unit to start recording. (“REC” light up in the display window during recording)



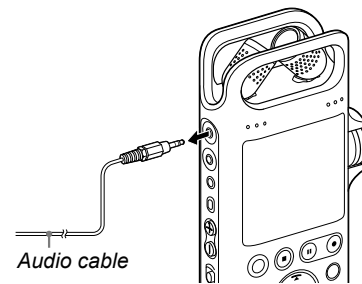
11. Check that the sound being recorded is output from the speaker.

Note 2: If sound is not output correctly from the speaker, check the soldering condition of the flat cable HP (4P) connecting the MAIN board and the HP_LINE_JACK board. Please re-solder if there is a problem. Also, if not improving, replace the MAIN board and the HP_LINE_JACK board with new parts respectively.

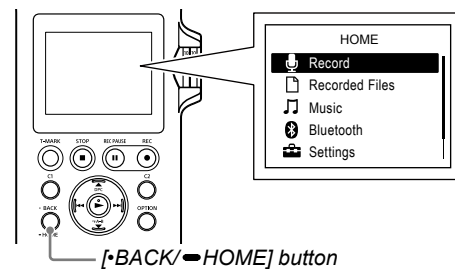
12. Press the [■ STOP] button on the front of the main unit to end recording.



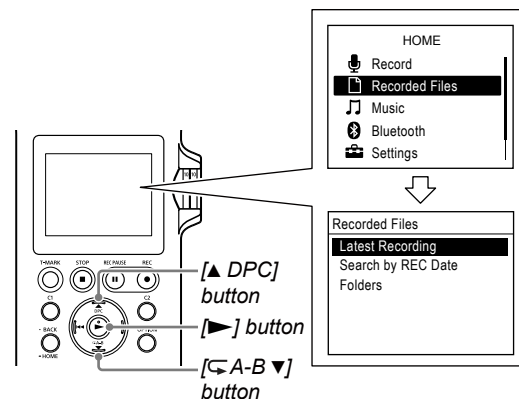
13. Disconnect the AV amplifier or playback device (analog) connected to this unit.



14. Press the [●BACK/◀HOME] button for about 1 second or longer to display the home menu.

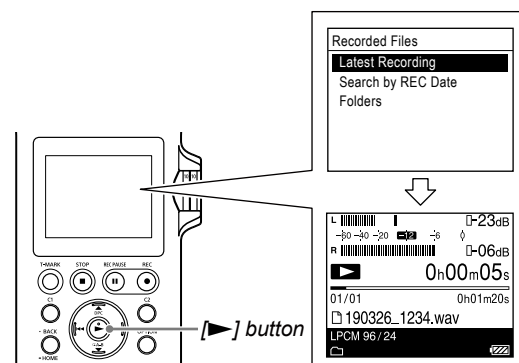


15. Press the [▲ DPC]/[◀A-B ▼] buttons to select the “Recorded Files” and press the [▶] button to decision.



16. With “Latest Recording” selected, press the [▶] button to decision.

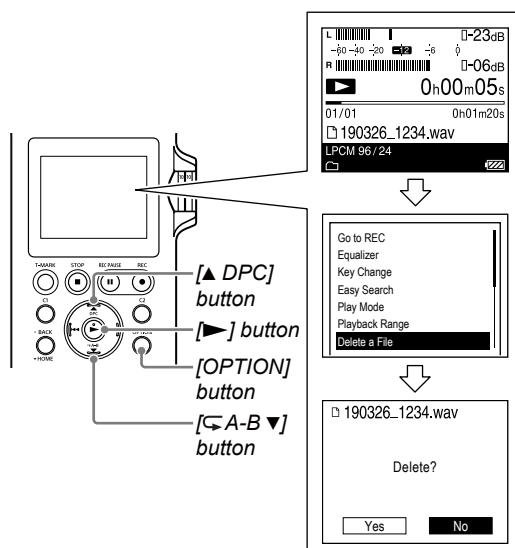
Note 3: After decision by pressing the [▶] button, playback of the latest recorded file will start automatically.



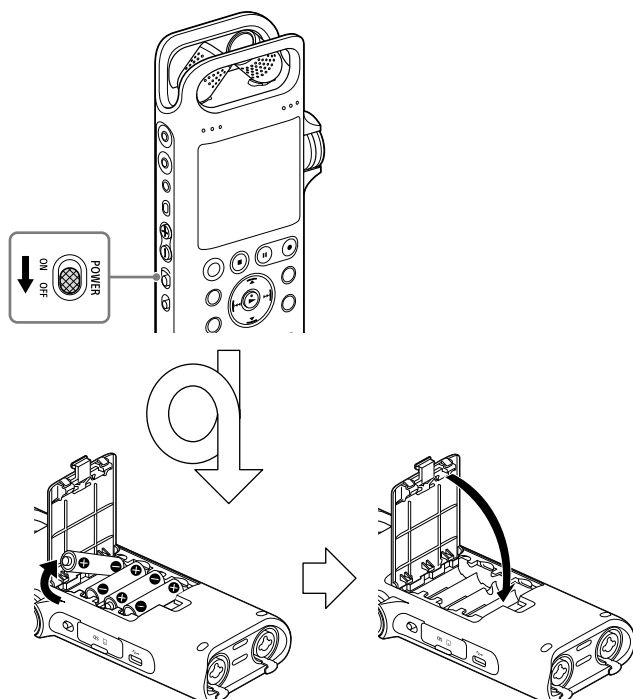
– Continued on next page –

17. While playing or stopping of a file, press the [OPTION] button on the front of the main unit to display the option menu, select "Delete a File", then press the [▶] button to decision.

Note 4: "Delete?" is displayed and the selected file is played for confirmation.



18. Press the [◀◀]/[▶▶] buttons to select the "Yes", then press the [▶] button to decision and delete the file.
19. Turn off the power of this unit, remove the battery, and complete the checking work.



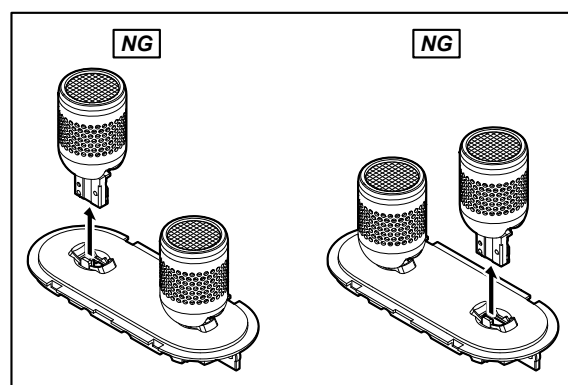
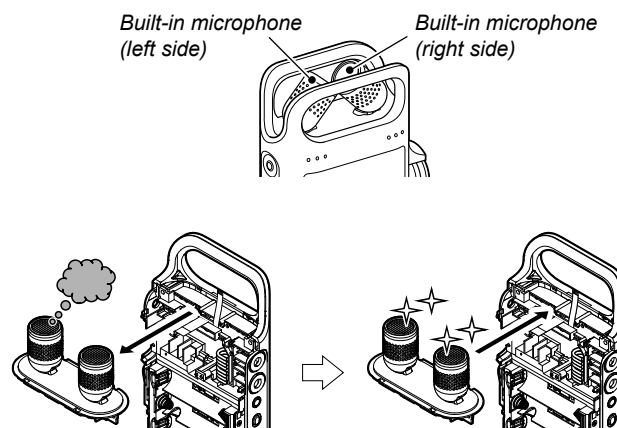
REPLACING THE BUILT-IN MICROPHONE

Be sure to replace the left and right built-in microphone mounted on the top of the this unit at the same time.

Only one side can not be replaced.

If the built-in microphone is failure, replace the SVX MIC assy including the left and right built-in microphone. (For the SVX MIC assy, refer to "4-4. MIC SECTION" on page 61)

It is not necessary to correct the microphone sensitivity by replacing the left and right built-in microphones at the same time.



INITIALIZATION METHOD

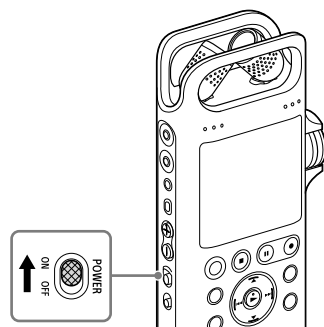
It can restore menu settings to the factory shipment.

Beforehand preparation:

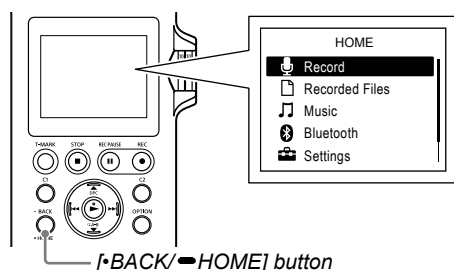
Open the battery lid on the rear side of main unit, install the four size AA batteries.

Initialization procedure:

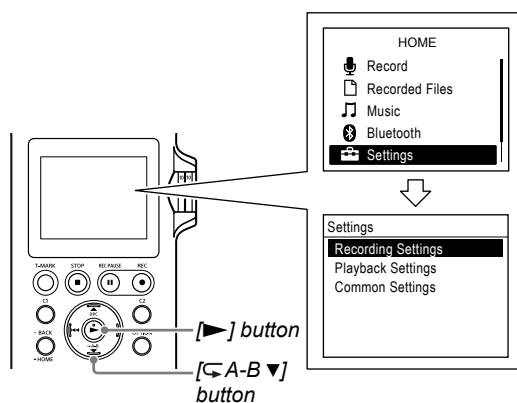
1. Turn the power on by turning ON of the [POWER] switch on the left side of main unit.



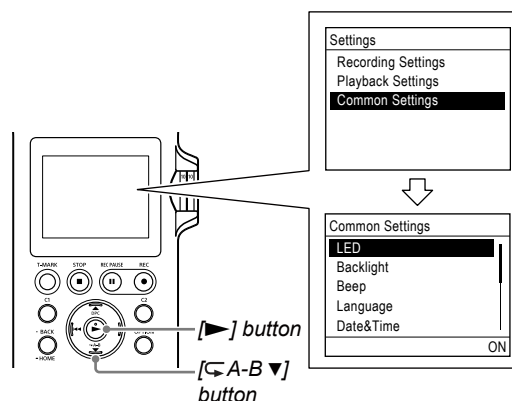
2. Press the [BACK/←HOME] button for about 1 second or longer to display the home menu.



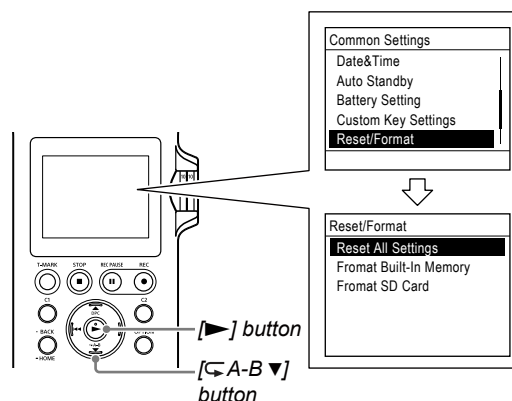
3. Press the [↵A-B ▼] button to select the “Settings” and press the [▶] button to decision.



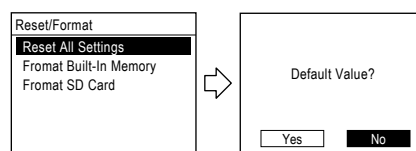
4. Press the [↵A-B ▼] button to select the “Common Settings” and press the [▶] button to decision.



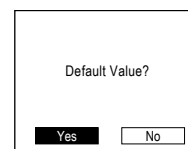
5. Press the [↵A-B ▼] button to select the “Reset/Format” and press the [▶] button to decision.



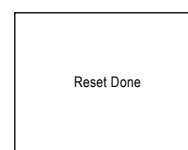
6. With “Reset All Settings” selected, press the [▶] button to decision.



7. Press the [◀◀]/[▶▶] buttons to select the “Yes” and press the [▶] button.



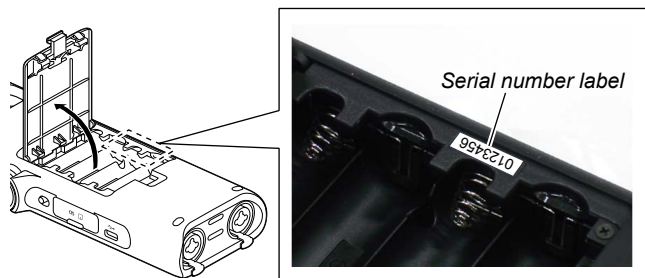
8. The message “Reset Done” is displayed, and initialization is completed.



ABOUT THE SERIAL NUMBER

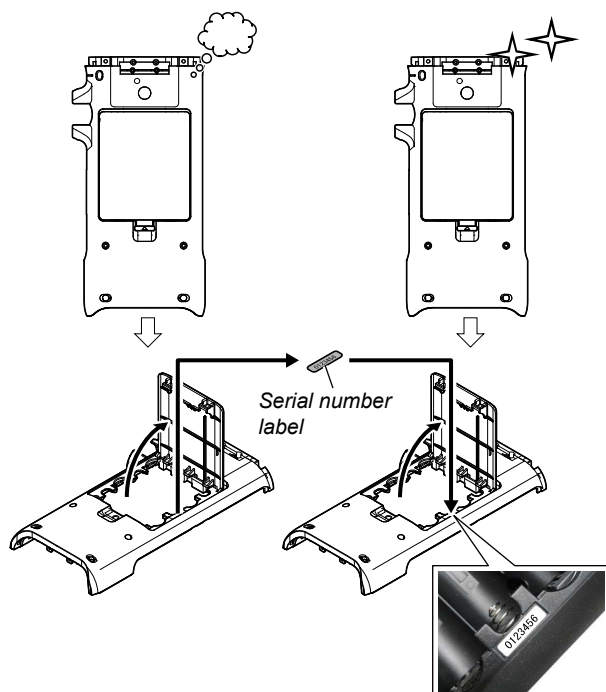
- **How to check the serial number**

The serial number can be checked by the label affixed to the inside of the opening the battery lid on the rear side of main unit.



- **Re-affix the serial number**

When replacing the cabinet (rear) Assy on the back of the main unit, be sure to re-affix the serial number label from the old cabinet (rear) Assy to the new cabinet (rear) Assy.

**ABOUT THE REPAIRING OF BOARD**

When boards installed in this unit are defective, boards will be replaced.

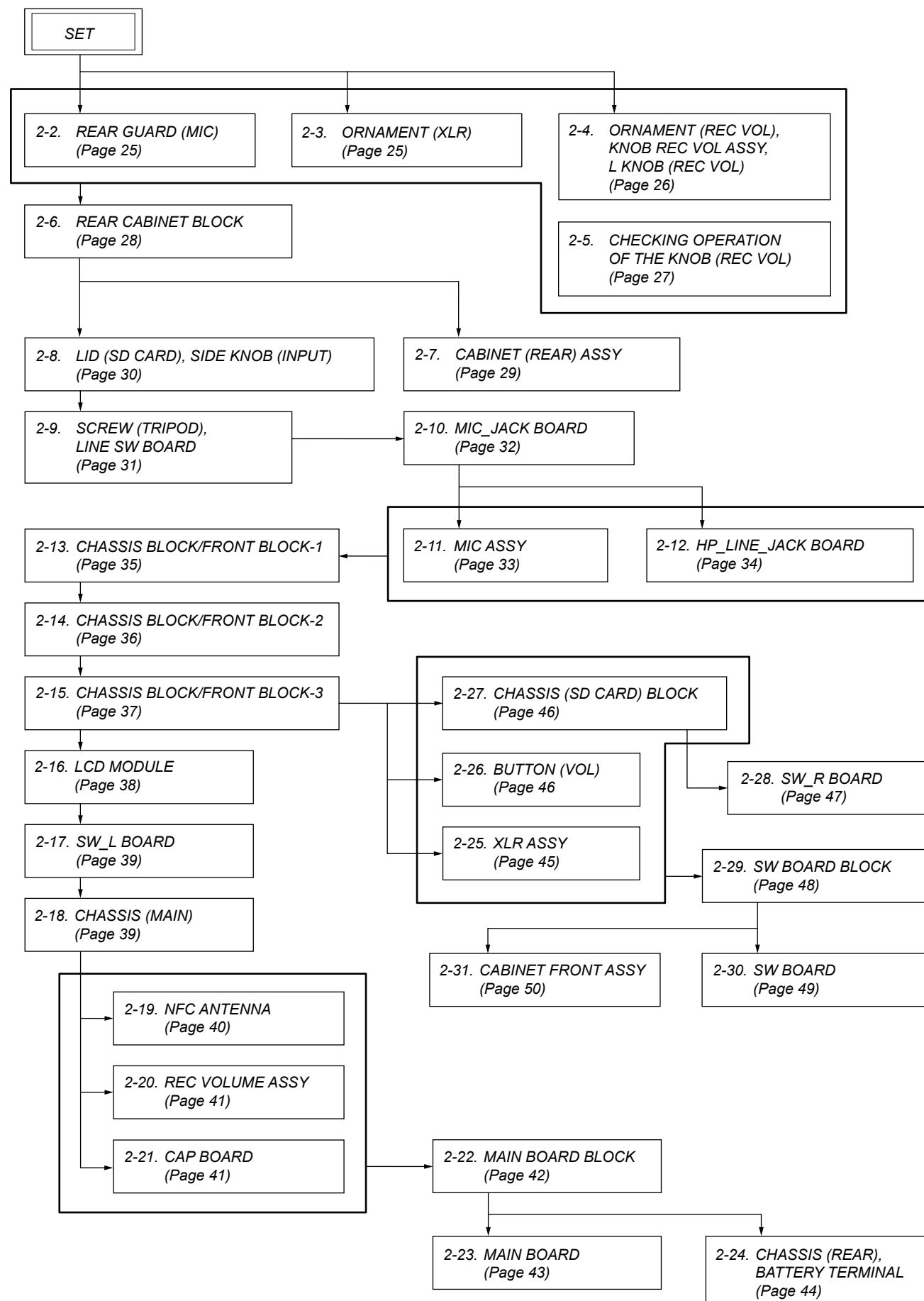
Individual electrical parts that mounted on the board cannot be replaced.

Replace the complete mounted board or the whole parts including the applicable board.

SECTION 2 DISASSEMBLY

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

2-1. DISASSEMBLY FLOW

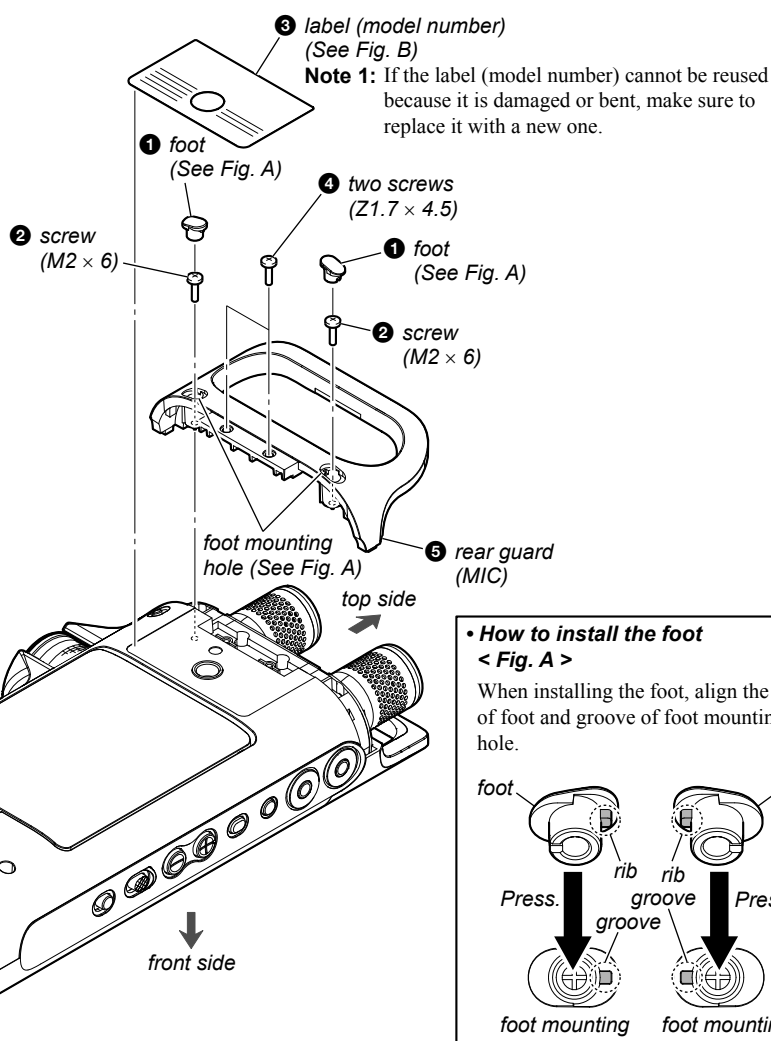
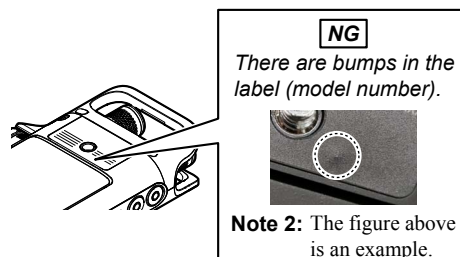
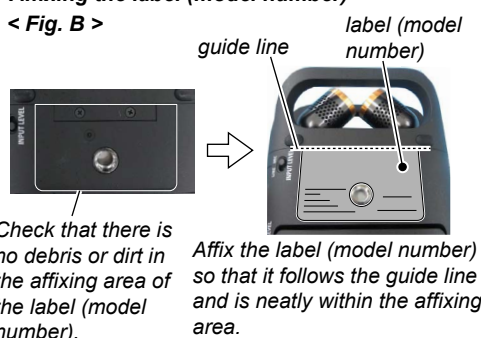


Note: Follow the disassembly procedure in the numerical order given.

2-2. REAR GUARD (MIC)

• Affixing the label (model number)

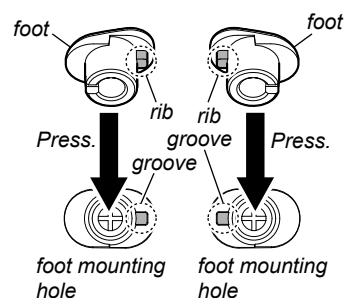
< Fig. B >



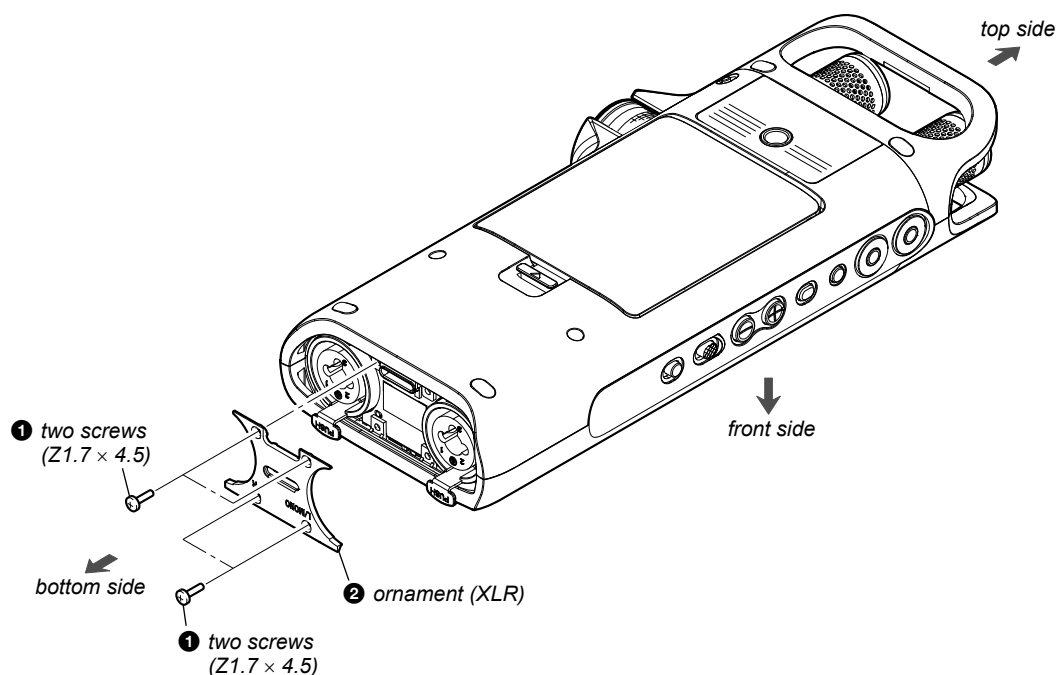
• How to install the foot

< Fig. A >

When installing the foot, align the rib of foot and groove of foot mounting hole.

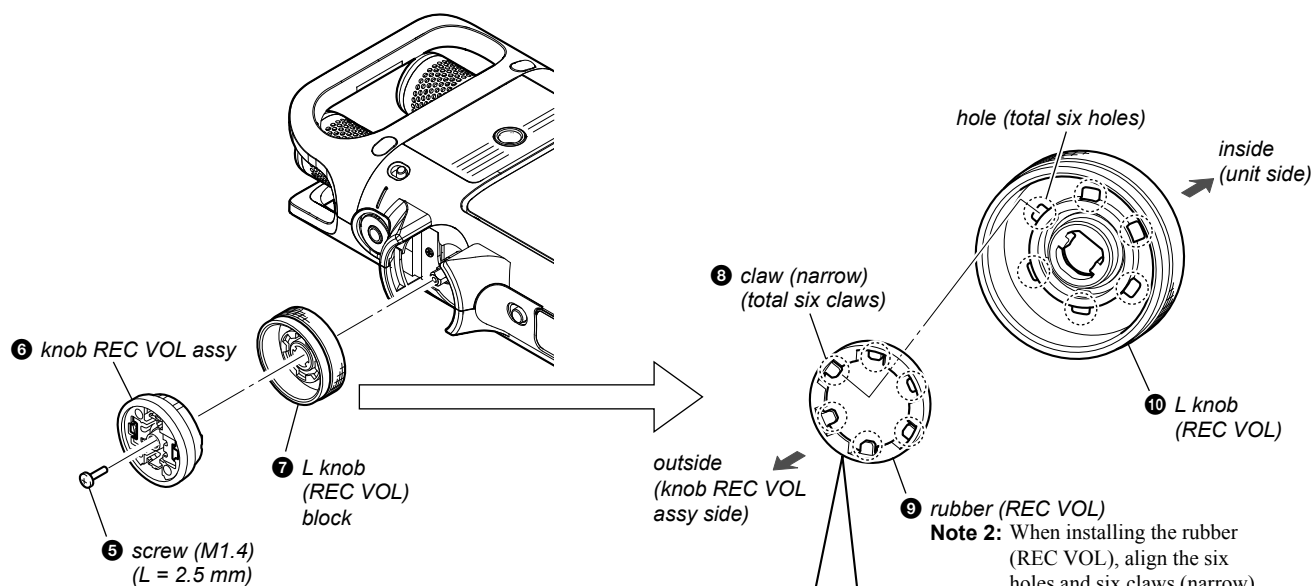
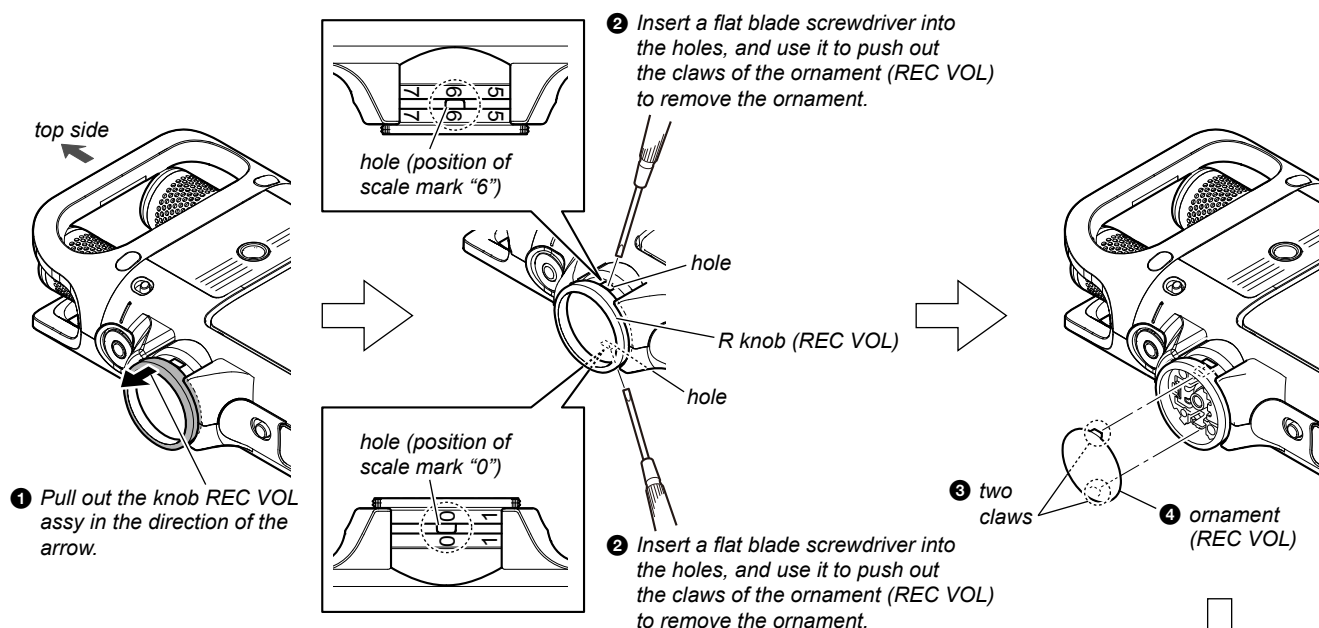


2-3. ORNAMENT (XLR)



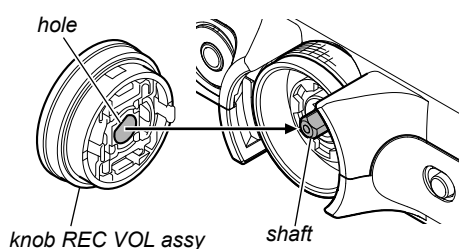
2-4. ORNAMENT (REC VOL), KNOB REC VOL ASSY, L KNOB (REC VOL)

Note 1: When the knob REC VOL assy and L knob (REC VOL) are installed, refer to “2-5 CHECKING OPERATION OF THE KNOB (REC VOL)” on page 27.

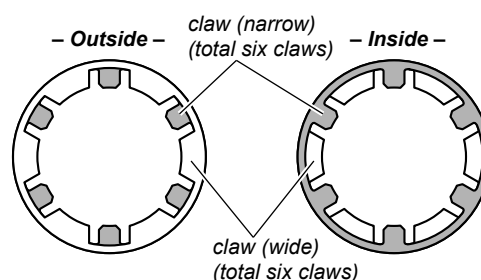


• How to install the knob REC VOL assy

When installing the knob REC VOL assy, align the hole and shaft of the D cut shape.



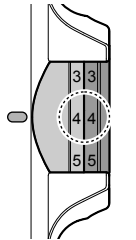
• Installation direction for the rubber (REC VOL)



2-5. CHECKING OPERATION OF THE KNOB (REC VOL)

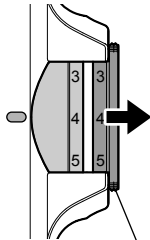
• Checking operation when pulling out the knob REC VOL assy

- ① Set to a scale mark other than "0" and "10".



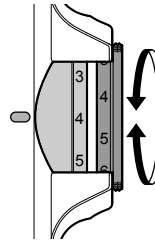
– Front view –

- ② Pull out the knob REC VOL assy in the direction of the arrow.

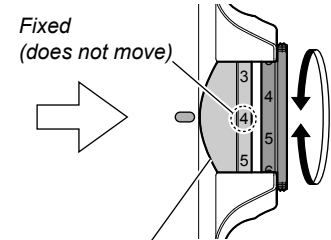


knob REC VOL assy

- ③ Rotate the knob REC VOL assy 10 to 30 degrees.



- ④ Check that the L knob (REC VOL) does not move while the knob REC VOL assy rotates.



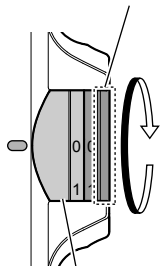
L knob (REC VOL)

• Checking operation when syncing the L knob (REC VOL) and knob REC VOL assy

- ① Set the scale marks of the L knob (REC VOL) and knob REC VOL assy to "0" position. After that, rotate only the knob REC VOL assy to scale mark "10" position.

Note: When rotate only the knob REC VOL assy to scale mark "10" position, make sure you do not touch the L knob (REC VOL).

knob REC VOL assy

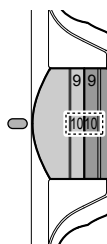


L knob (REC VOL)

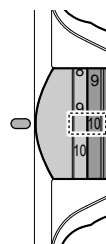
– Front view –

- ② Check that the L knob (REC VOL) and knob REC VOL assy line up at scale mark "10" position.

OK



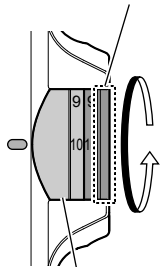
NG



- ③ Set the scale marks of the L knob (REC VOL) and knob REC VOL assy to "10" position. After that, rotate only the knob REC VOL assy to scale mark "0" position.

Note: When rotate only the knob REC VOL assy to scale mark "0" position, make sure you do not touch the L knob (REC VOL).

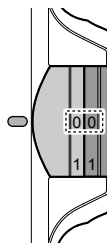
knob REC VOL assy



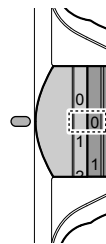
L knob (REC VOL)

- ④ Check that the L knob (REC VOL) and knob REC VOL assy line up at scale mark "0" position.

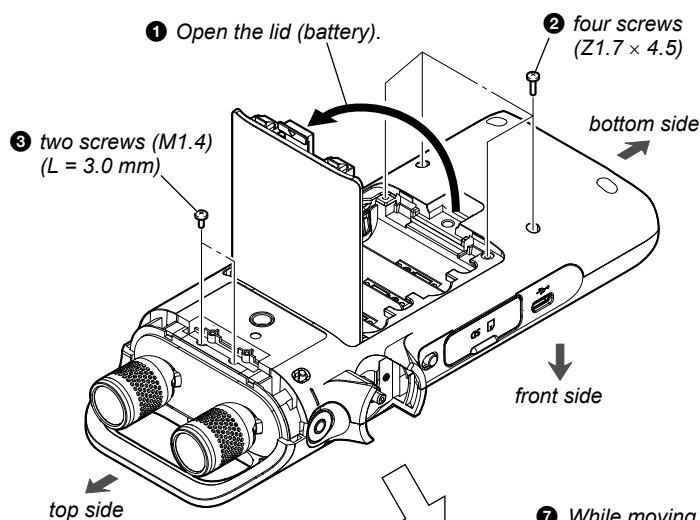
OK



NG

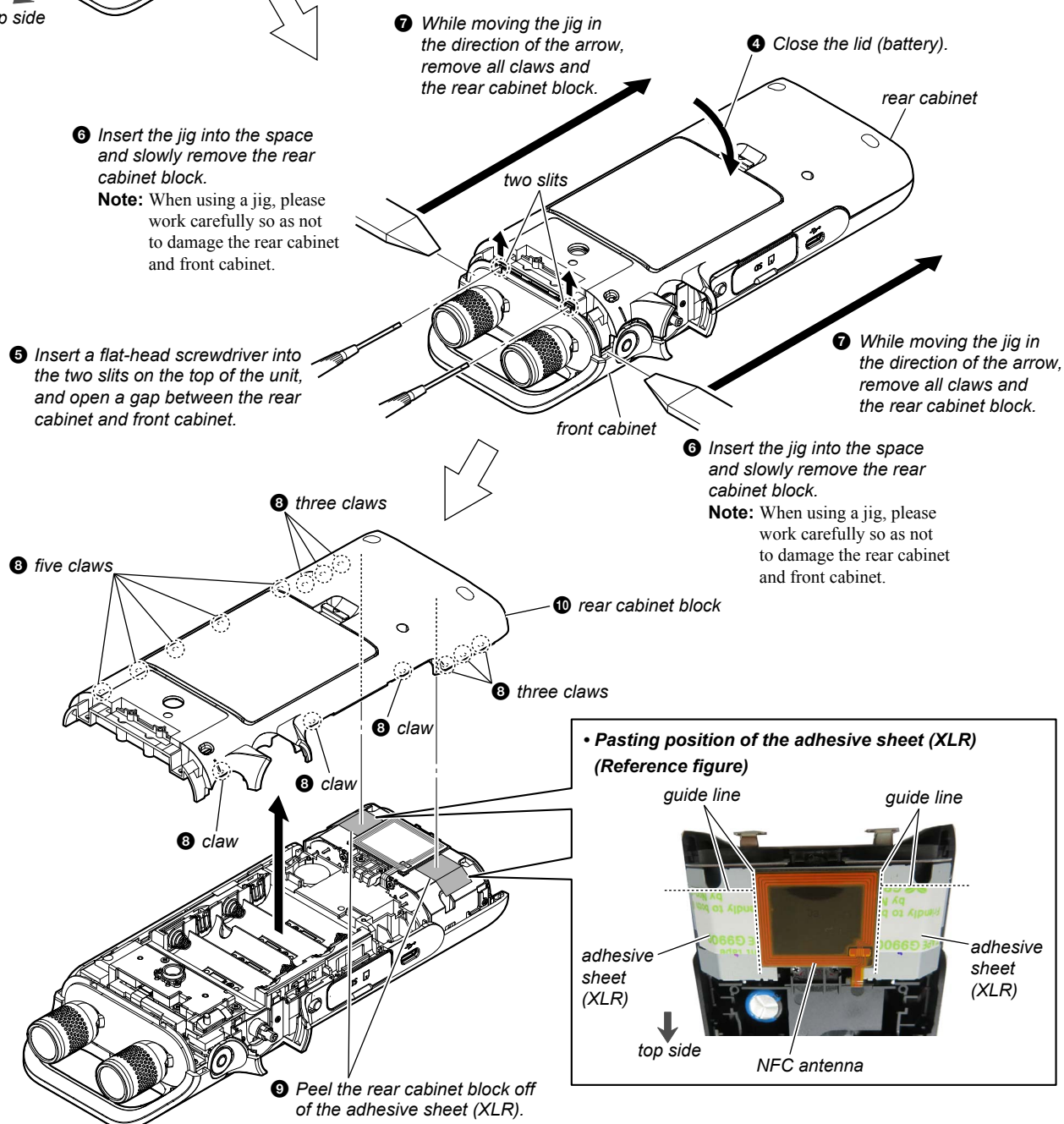
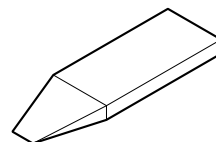


2-6. REAR CABINET BLOCK

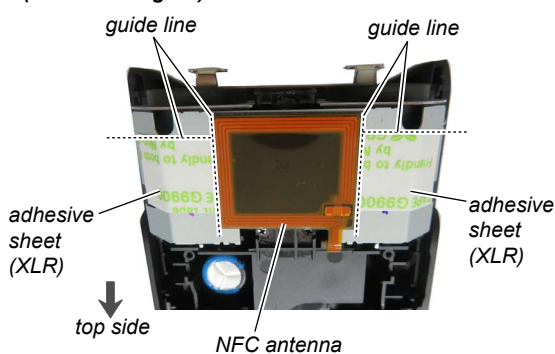


• JIG
When disassembling the unit, use the following jig.

Part No.	Description
9-913-402-33	TOOL FOR DISASSEMBLING

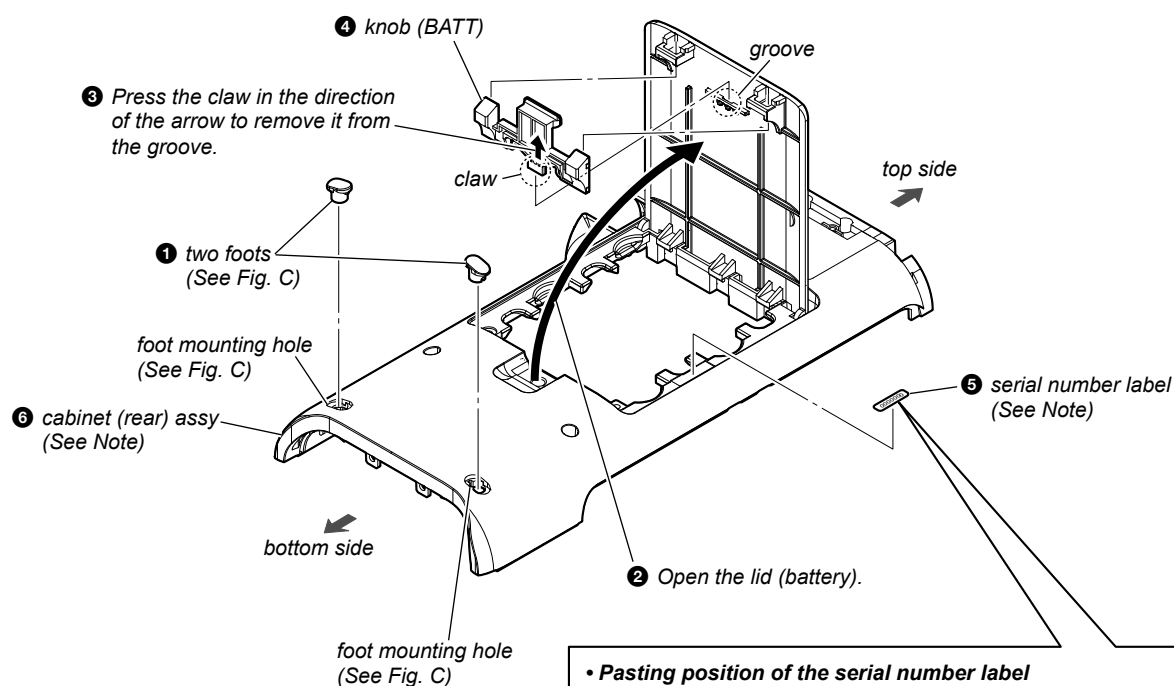


• Pasting position of the adhesive sheet (XLR)
(Reference figure)



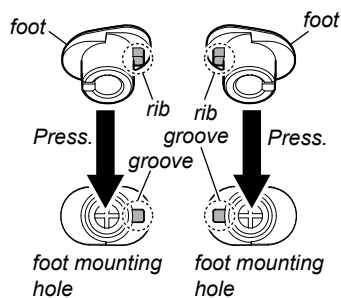
2-7. CABINET (REAR) ASSY

Note: When the cabinet (rear) assy is replaced, make sure to peel off the serial number label from the old cabinet (rear) assy and affix it to the new one.



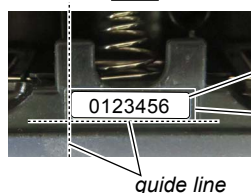
• How to install the foot
< Fig. C >

When installing the foot, align the rib of foot and groove of foot mounting hole.



• Pasting position of the serial number label

OK



NG

Not affixed within the affixing border for serial number label.



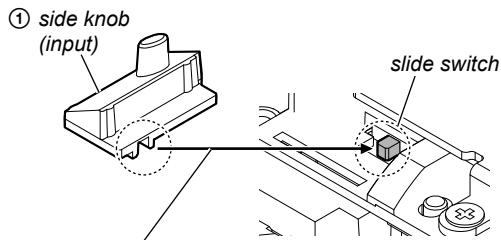
NG

Affixed at a slant.



2-8. LID (SD CARD), SIDE KNOB (INPUT)

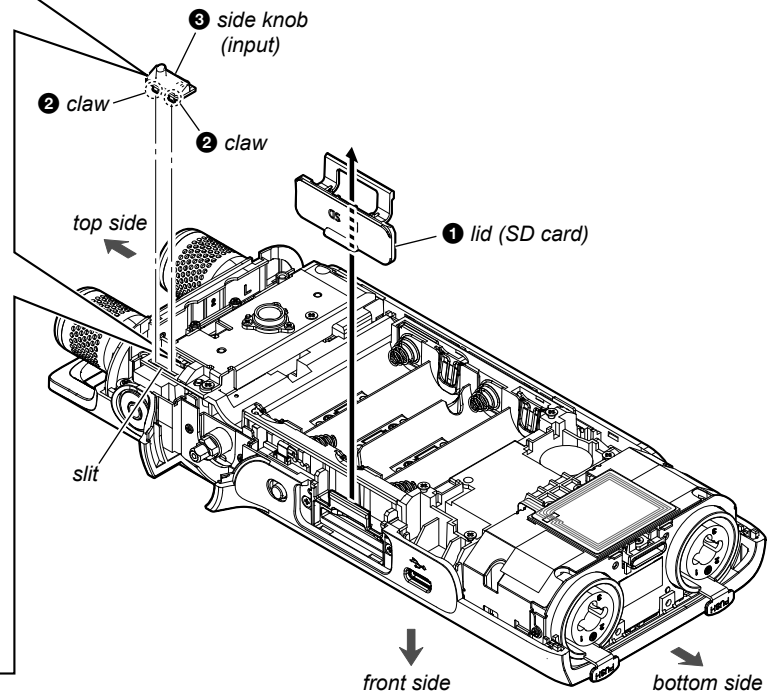
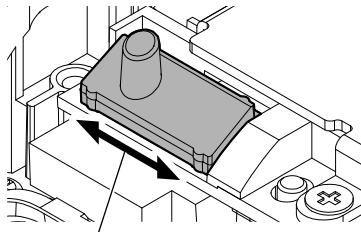
- **How to install the side knob (input)**
Attach in order from ① to ③.



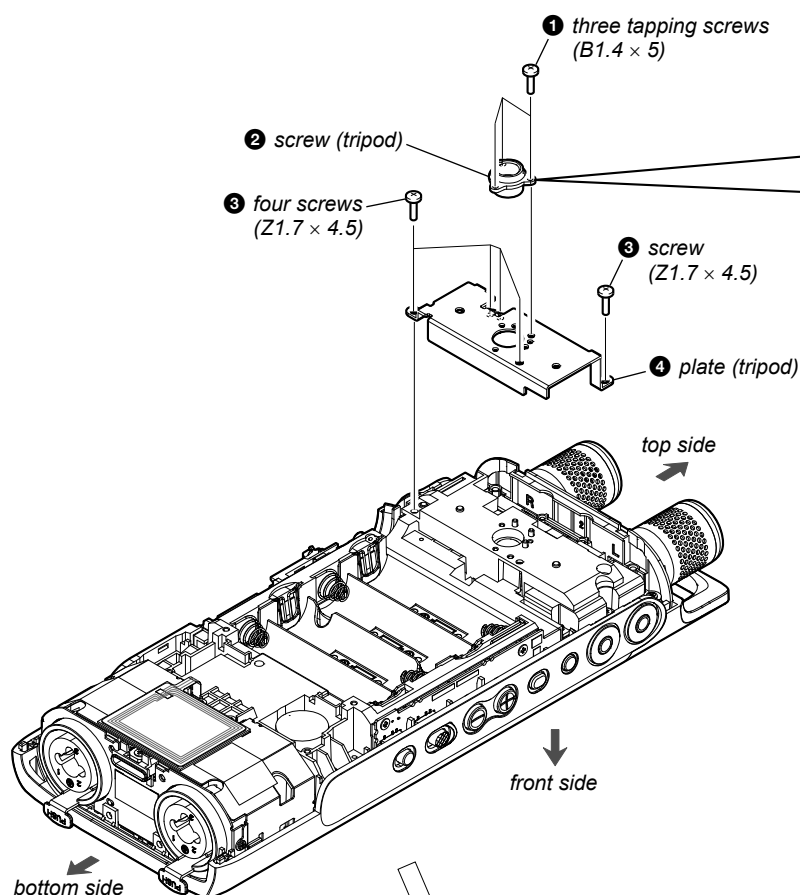
- ② Align the side knob (input) and slide switch, and then attach them.



- ③ Slide the side knob (input) left and right and check that the slide switch is securely attached to the side knob (input).

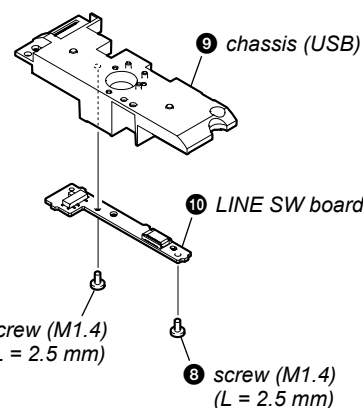
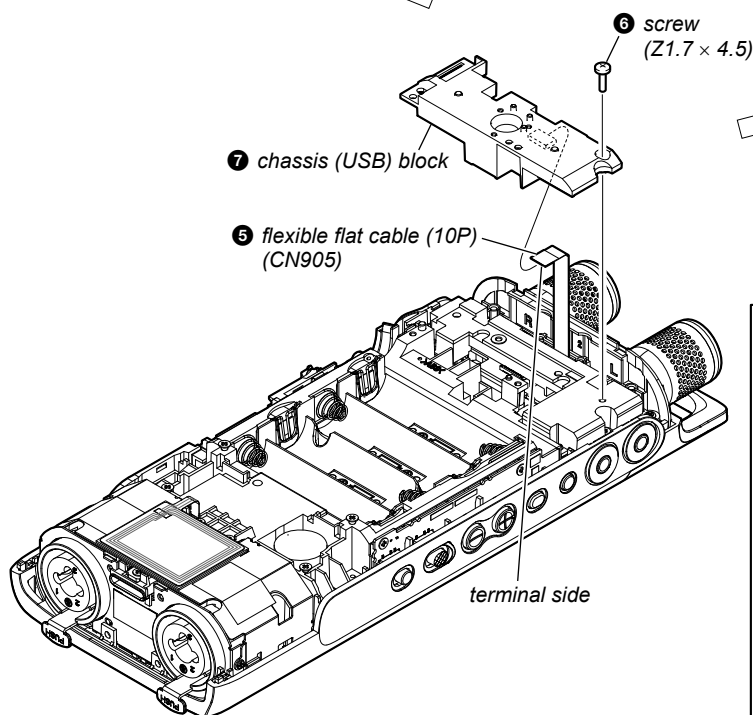
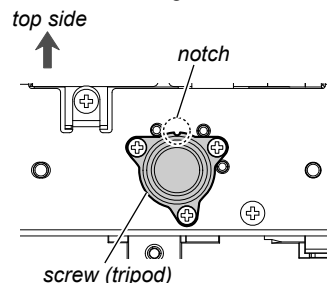


2-9. SCREW (TRIPOD), LINE SW BOARD



• Installation direction for the screw (tripod)

When installing the screw (tripod), make the position of notch as shown in the figure below.

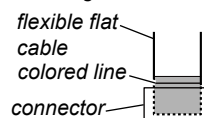


• How to install the flexible flat cable

Insert the flexible flat cable straight into the interior. There is a possibility that using this unit without the connector correctly installed will damage it.

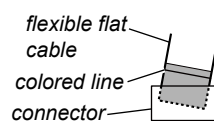
OK

Insert straight into the interior.



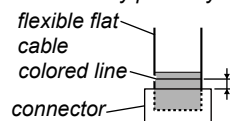
NG

Insert at a slant.



NG

Insert only part way.



2-10. MIC_JACK BOARD

② chassis (jack)

Note 1: When installing the chassis (jack), align the two ribs and two holes.

③ Remove two solder of the MIC SW board (L) wire. [blue/gray]

③ Remove two solder of the MIC SW board (R) wire. [brown/gray]

④ flexible flat cable (12P) (CN955)

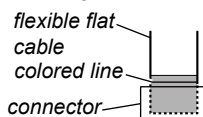
③ Remove two solder of the MIC (R) wire. [red/gold]

• How to install the flexible flat cable

Insert the flexible flat cable straight into the interior. There is a possibility that using this unit without the connector correctly installed will damage it.

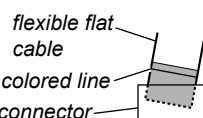
OK

Insert straight into the interior.



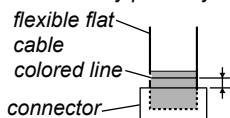
NG

Insert at a slant.



NG

Insert only part way.



① screw (Z1.7 × 4.5)

⑤ screw (M1.4) (L = 2.5 mm)

top side

terminal side

bottom side

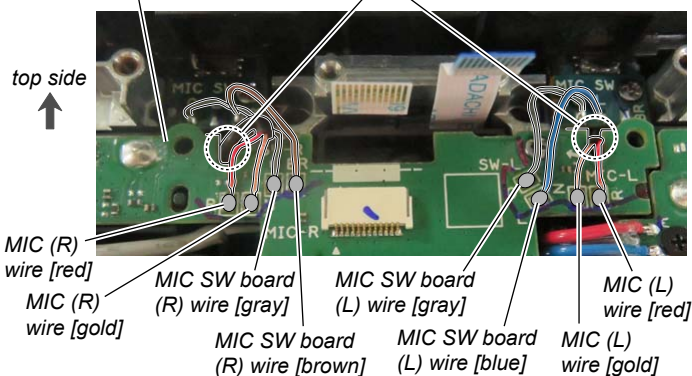
front side

③ Remove two solder of the MIC (L) wire. [red/gold]

• MIC wire setting

MIC_JACK board

Press the MIC wire into the slit of MIC_JACK board.



MIC_JACK board

⑦ boss

hole

⑥ Lift up the MIC_JACK board in the direction of the arrow.

⑨ MIC_JACK board

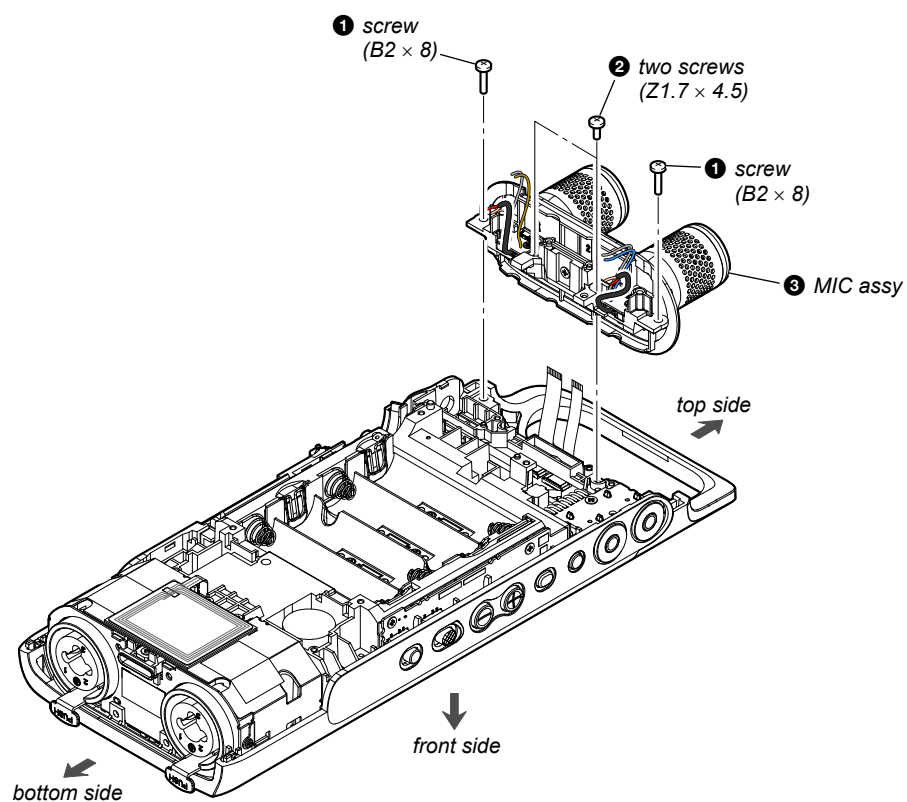
Note 2: When installing the MIC_JACK board, align the jack and hole.

hole

jack

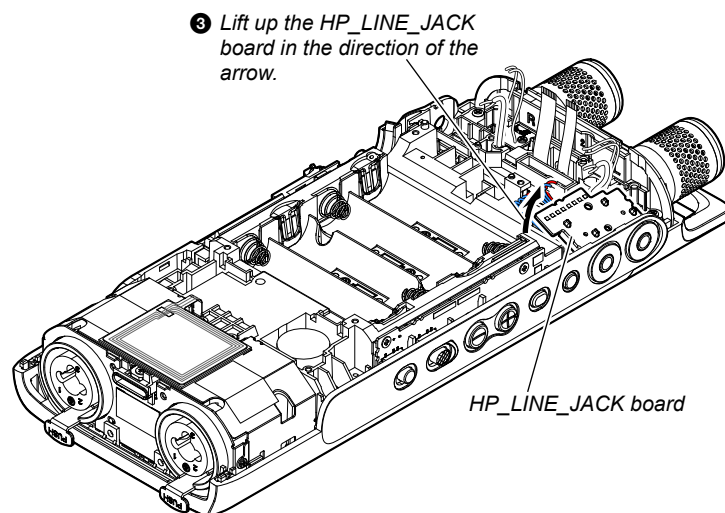
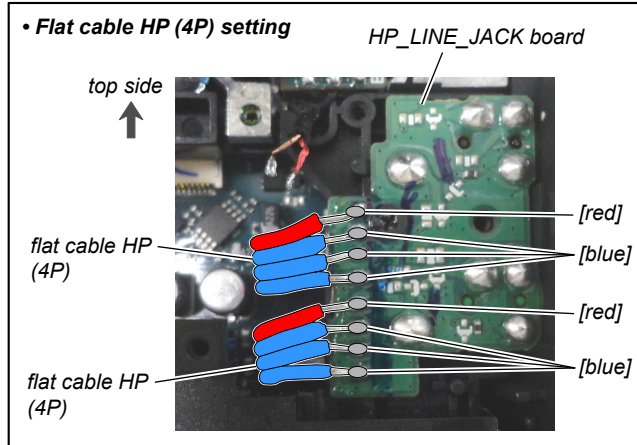
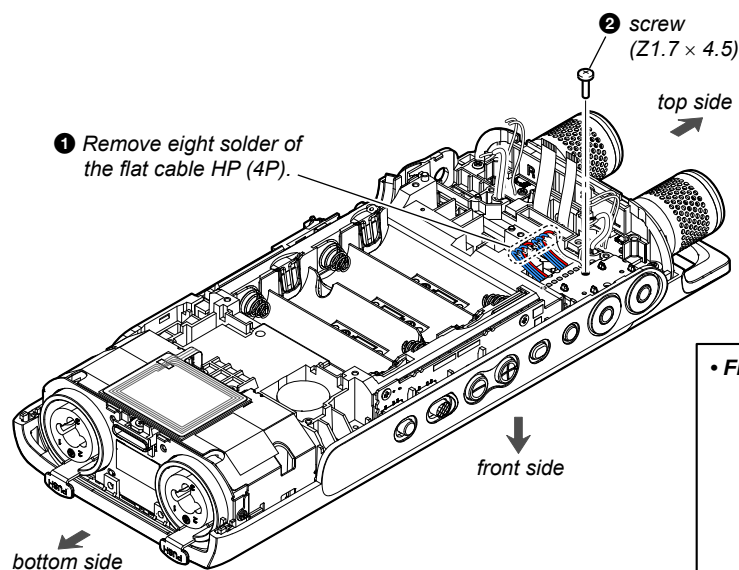
⑧ Remove the MIC_JACK board in the direction of the arrow.

2-11. MIC ASSY



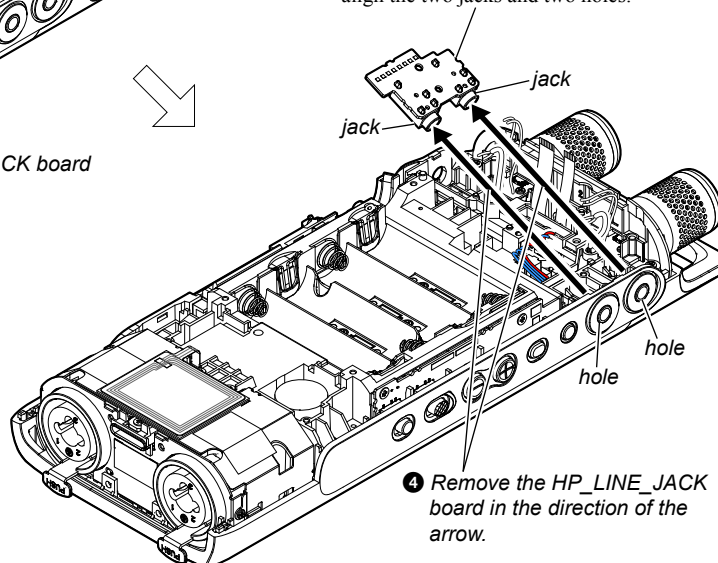
2-12. HP_LINE_JACK BOARD

Note 1: When the HP_LINE_JACK board is replaced, make sure to refer to "LINE OUT JACK CHECKING METHOD" on page 19, and check the LINE OUT jack.



⑤ HP_LINE_JACK board

Note 2: When installing the HP_LINE_JACK board, align the two jacks and two holes.



2-13. CHASSIS BLOCK/FRONT BLOCK-1

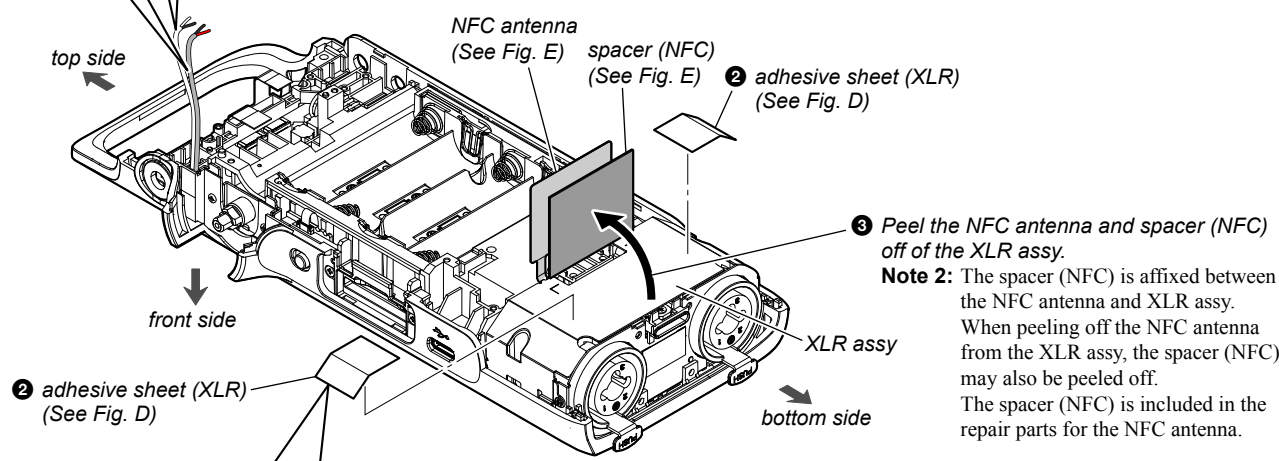
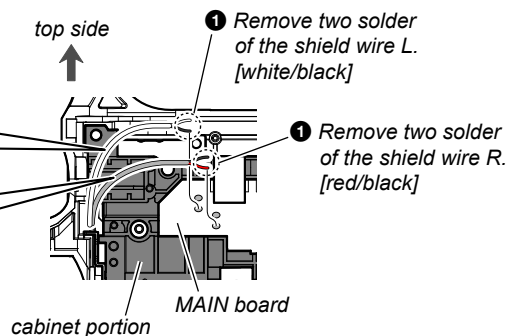
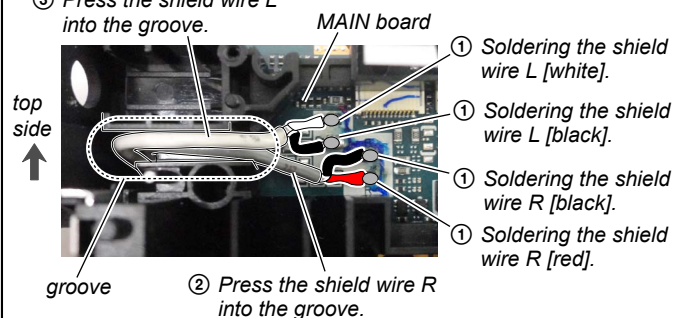
• Continued on 2-14 (page 36).

Note 1: Use the soldering iron vertically so that it does not touch the cabinet portion.

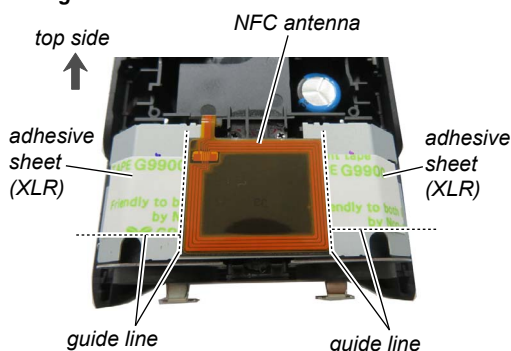
• **Shield wire setting**

Attach in order from ① to ③.

- ③ Press the shield wire L into the groove.

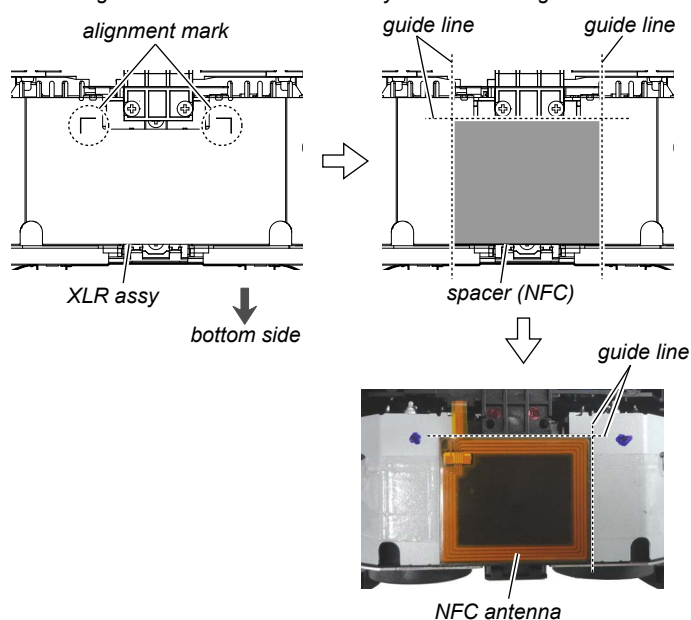


• **Pasting position of the adhesive sheet (XLR)**
< Fig. D >



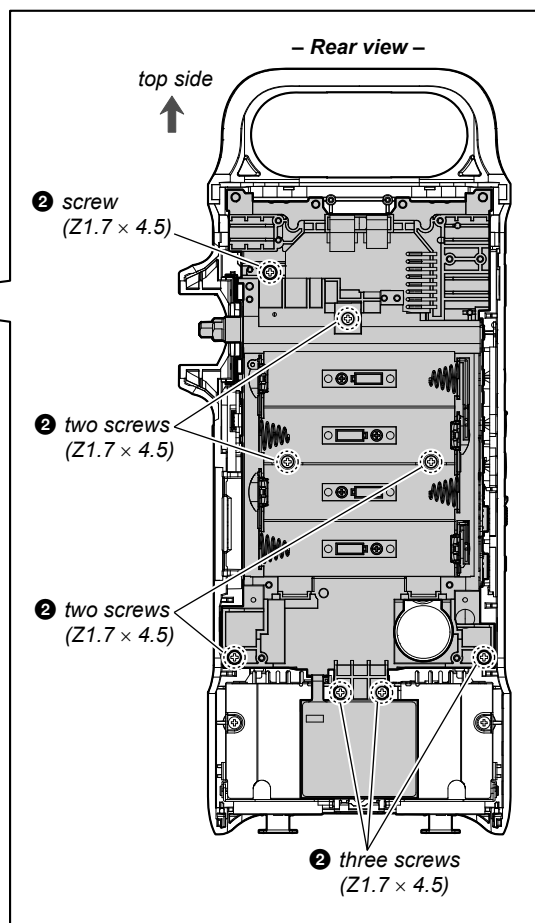
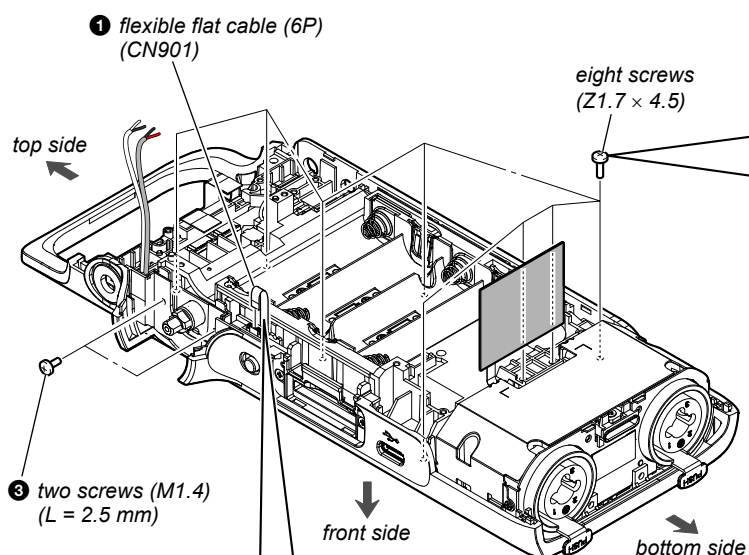
• **Pasting position of the NFC antenna**
< Fig. E >

When affixing the spacer (NFC) and NFC antenna to the XLR assy, check the alignment marks on the XLR assy and follow the guide lines.

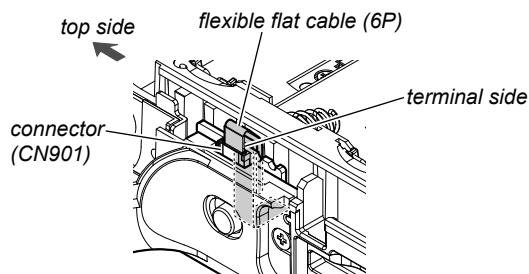


2-14. CHASSIS BLOCK/FRONT BLOCK-2

- Continued on 2-15 (page 37).



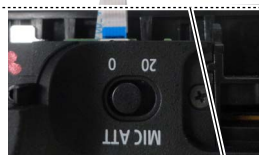
• Flexible flat cable (6P) setting

**OK**

Flexible flat cable (6P) does not exceed the guide line.

**NG**

Flexible flat cable (6P) exceeds the guide line.



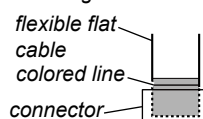
– Side view –

• How to install the flexible flat cable

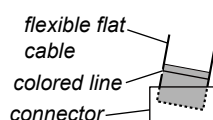
Insert the flexible flat cable straight into the interior. There is a possibility that using this unit without the connector correctly installed will damage it.

OK

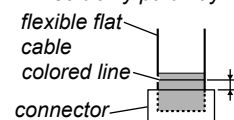
Insert straight into the interior.

**NG**

Insert at a slant.

**NG**

Insert only part way.

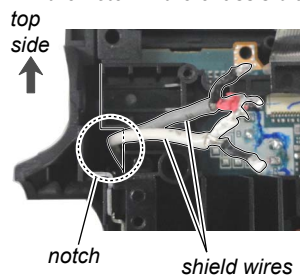


2-15. CHASSIS BLOCK/FRONT BLOCK-3

• **Note about installing the chassis block**
– Rear view –

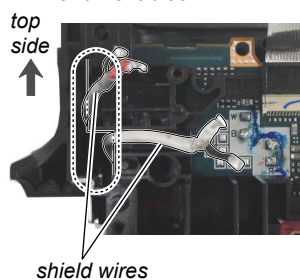
OK

Shield wires pass through the notch in the chassis block.



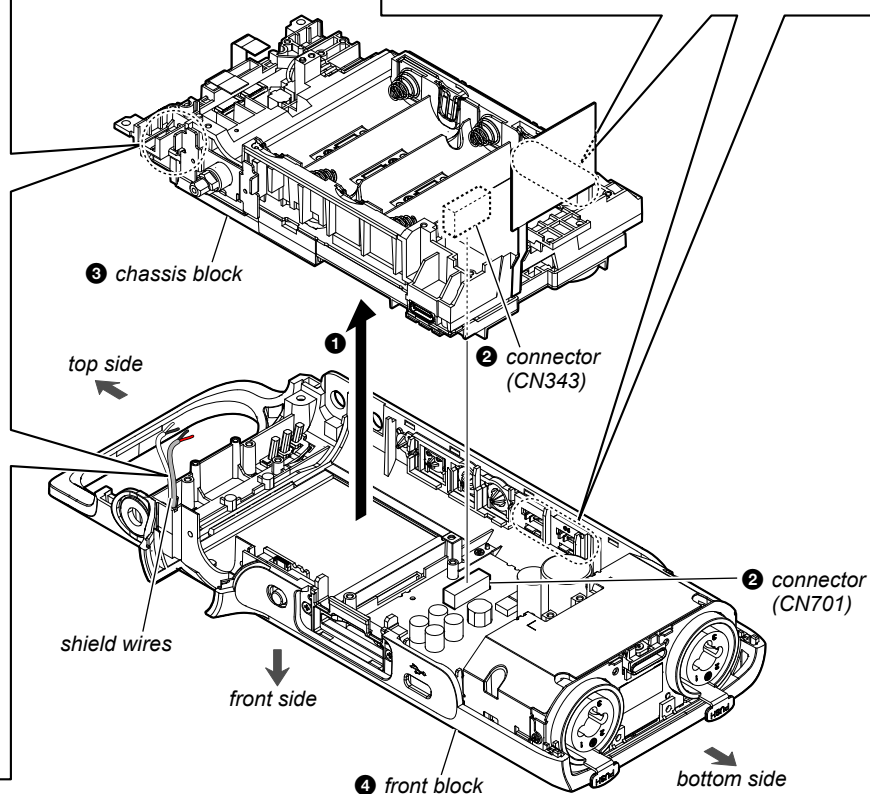
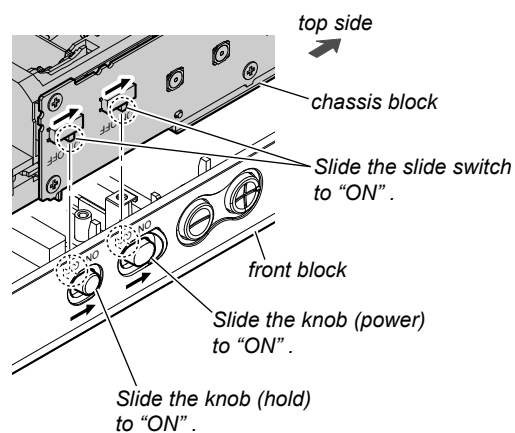
NG

Shield wires are caught between the chassis block and front block.

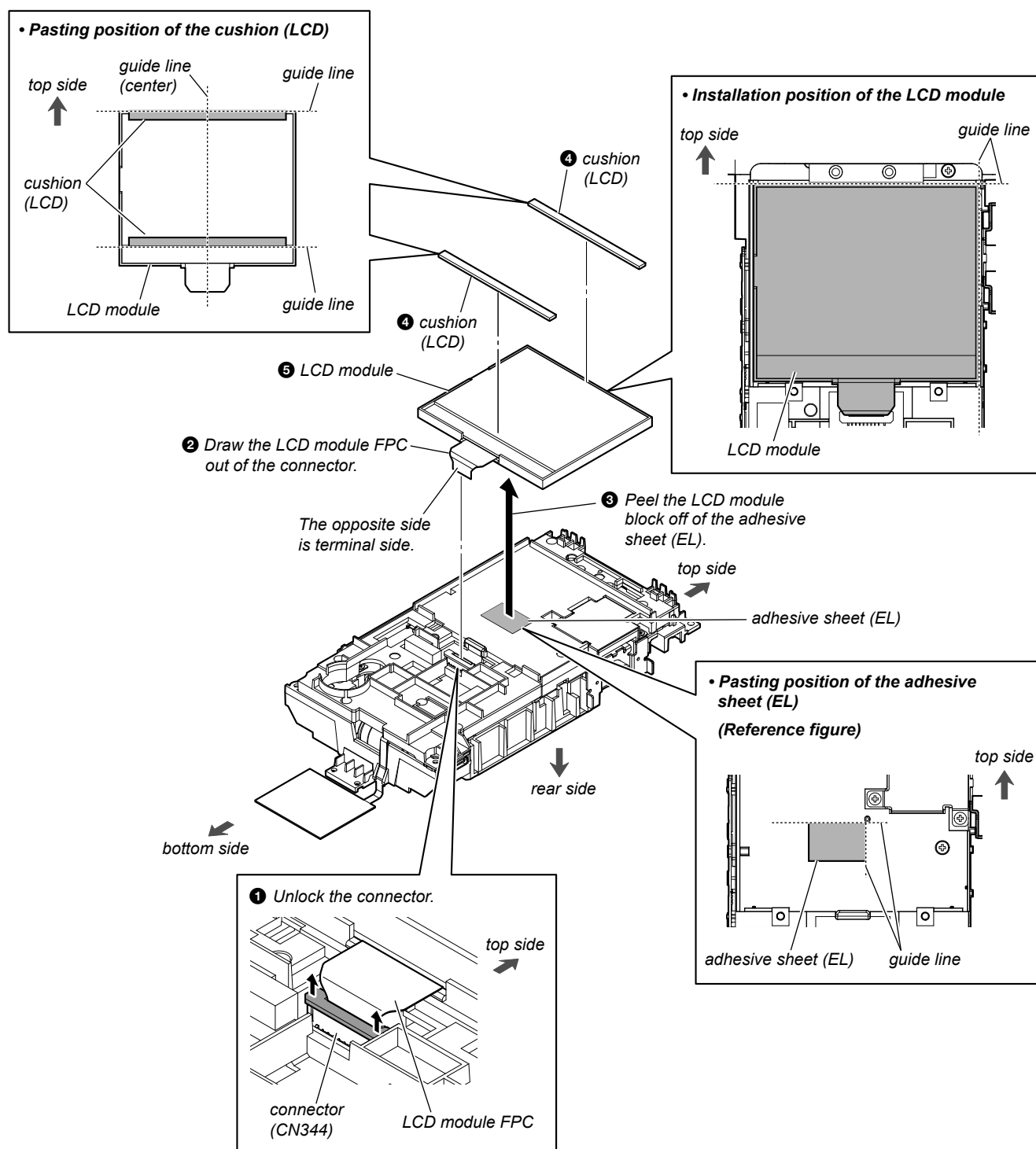


• **How to install the chassis block**

Align the knob (HOLD) and knob (POWER) with the two slide switches, and install the chassis block.

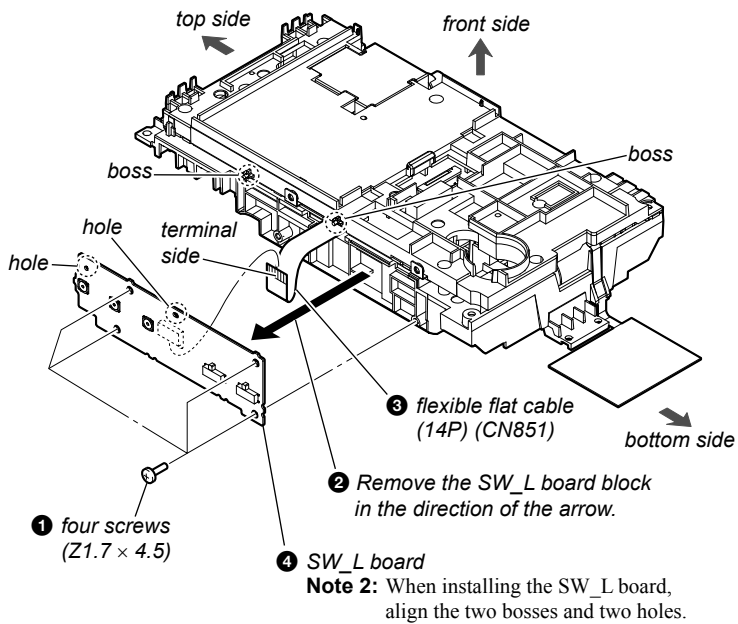


2-16. LCD MODULE



2-17. SW_L BOARD

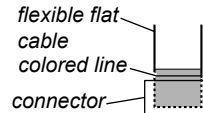
Note 1: If the SW_L board was replaced, make sure to refer to "BLUETOOTH CONNECTION CHECKING METHOD" on page 10 and check the Bluetooth connection.



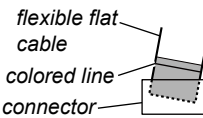
• **How to install the flexible flat cable**
Insert the flexible flat cable straight into the interior.
There is a possibility that using this unit without the connector correctly installed will damage it.

OK

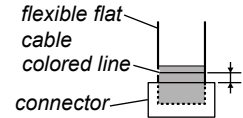
Insert straight into the interior.

**NG**

Insert at a slant.

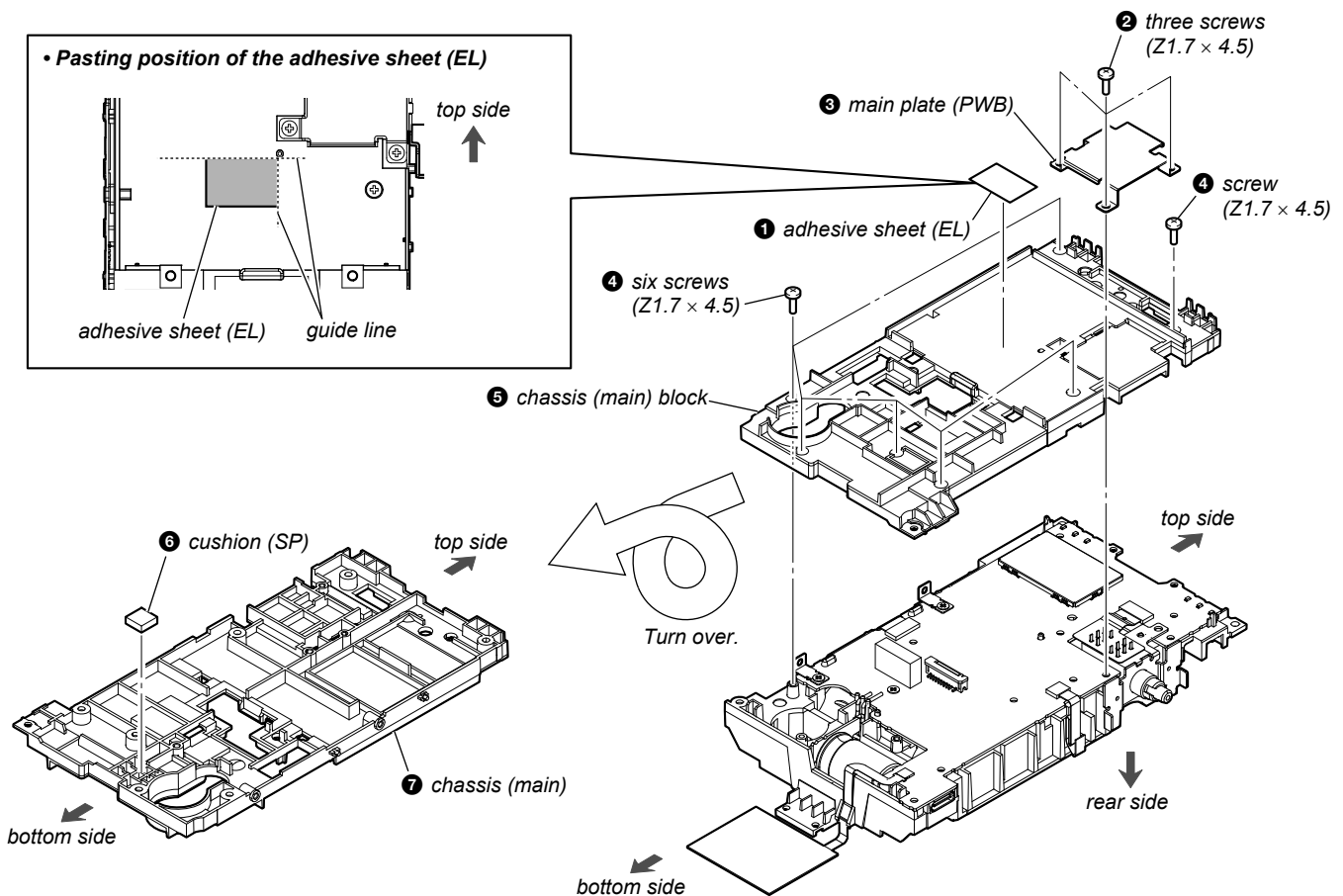
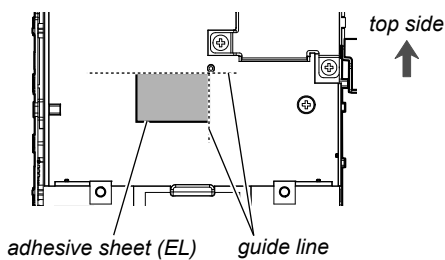
**NG**

Insert only part way.

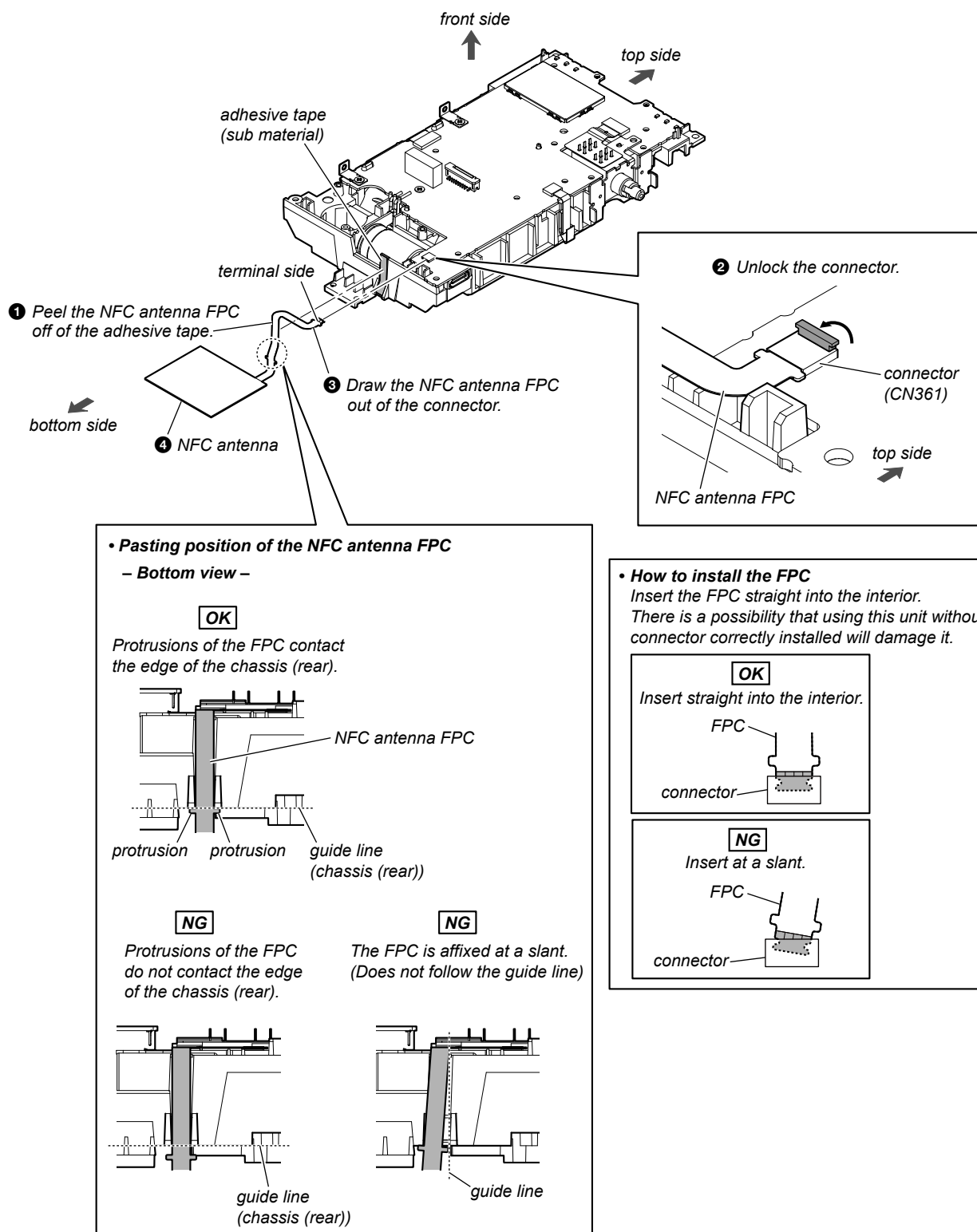


2-18. CHASSIS (MAIN)

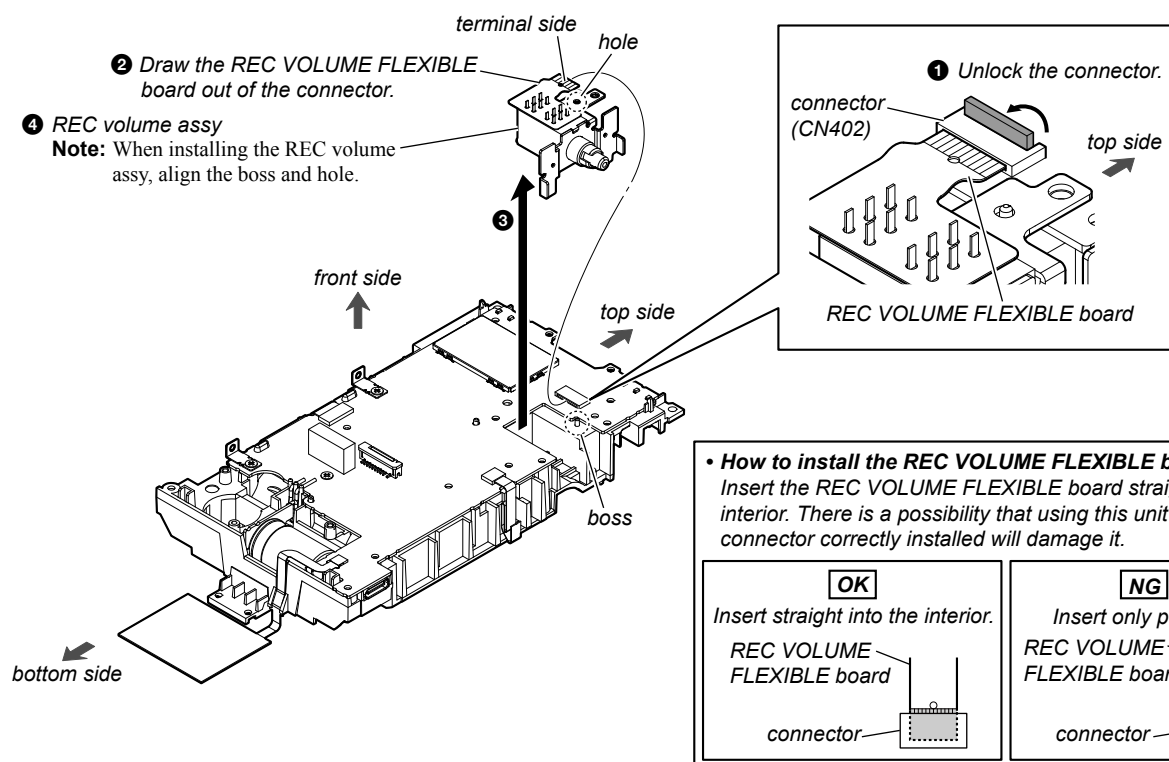
• **Pasting position of the adhesive sheet (EL)**



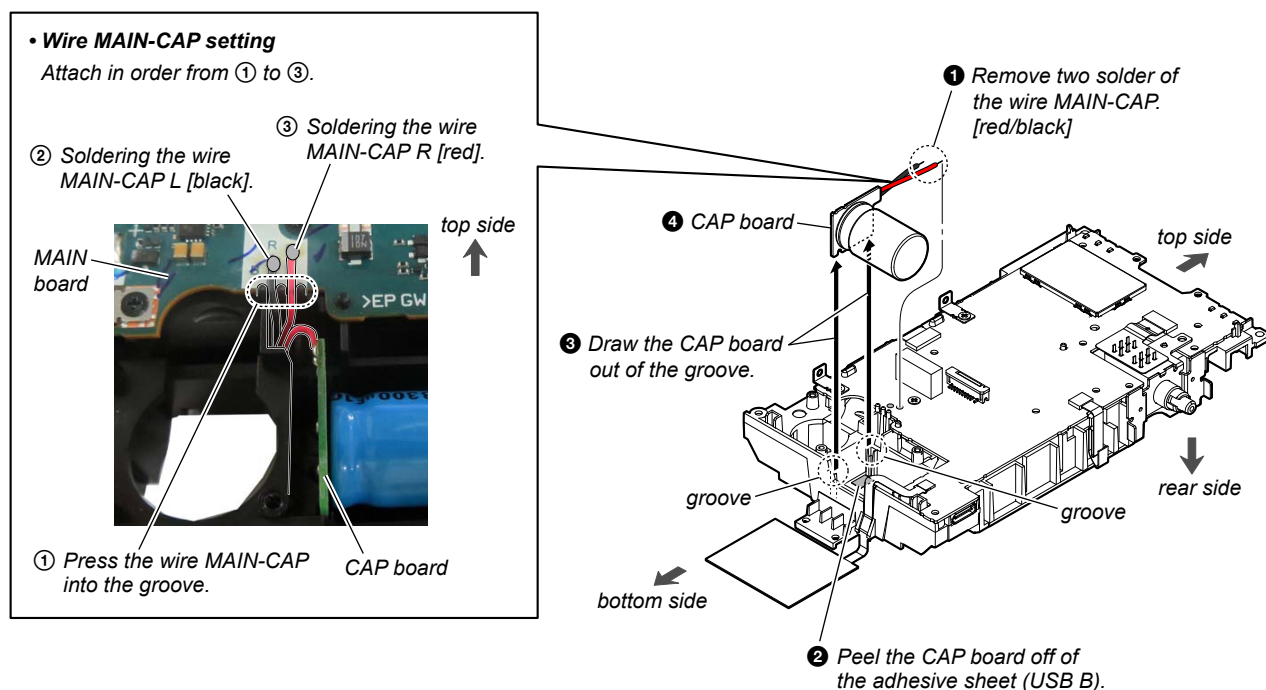
2-19. NFC ANTENNA



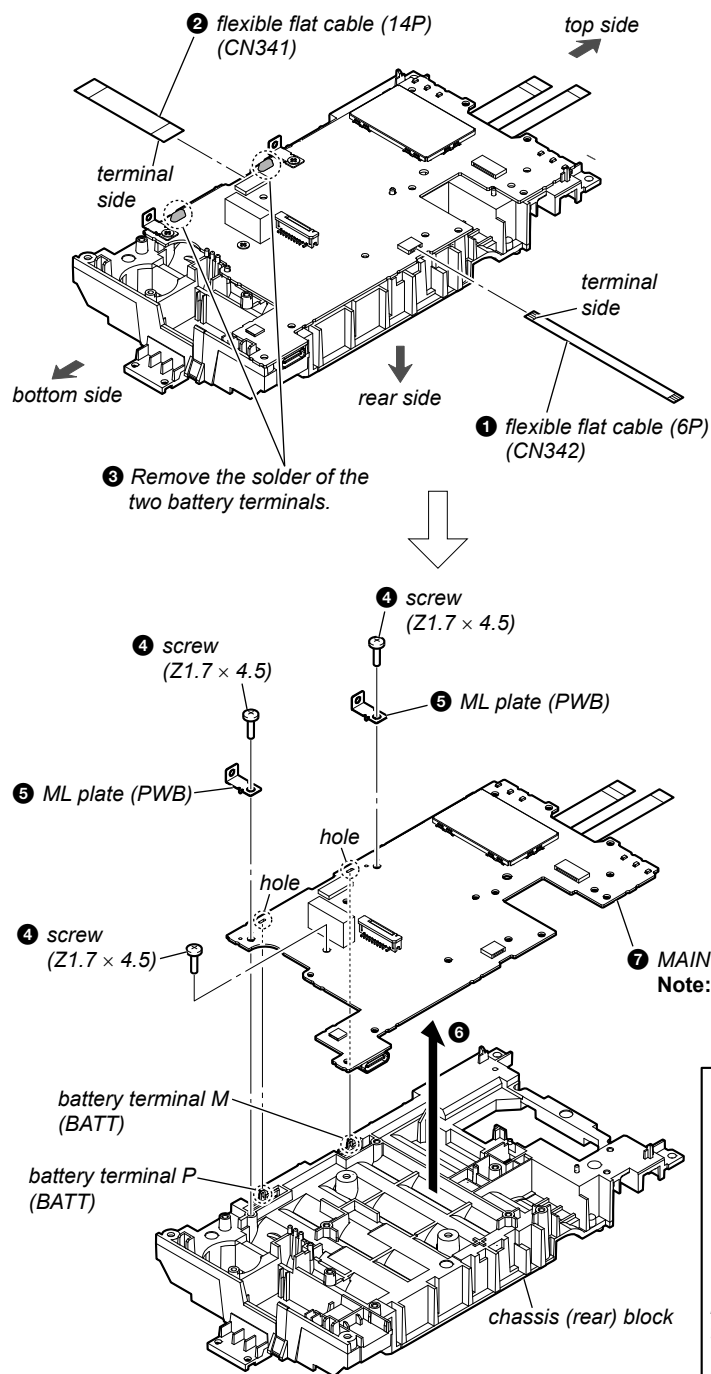
2-20. REC VOLUME ASSY



2-21. CAP BOARD



2-22. MAIN BOARD BLOCK

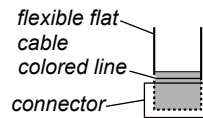


• How to install the flexible flat cable

Insert the flexible flat cable straight into the interior. There is a possibility that using this unit without the connector correctly installed will damage it.

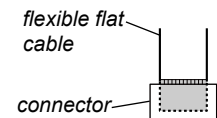
OK

Insert straight into the interior.



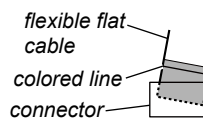
OK

Insert straight into the interior.



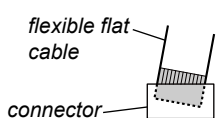
NG

Insert at a slant.



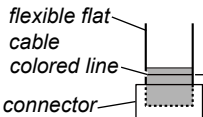
NG

Insert at a slant.



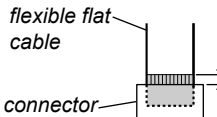
NG

Insert only part way.



NG

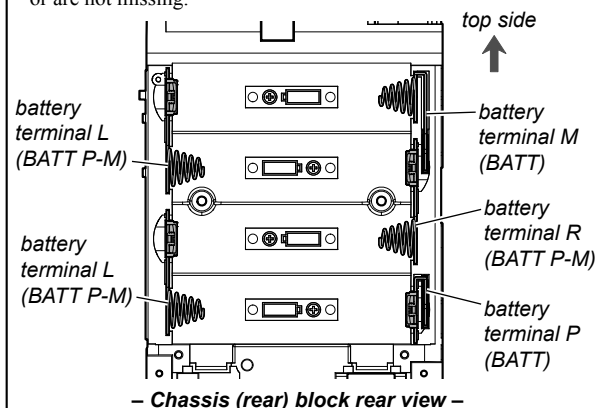
Insert only part way.



Note: When installing the MAIN board block, align the two holes and two battery terminals.

• Note about installing the chassis (rear) block

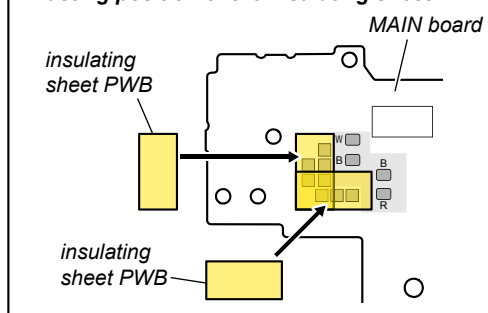
Before installing the chassis (rear) block to the MAIN board block, check that all of the battery terminals on the battery installation side of the chassis (rear) block have not fallen out or are not missing.



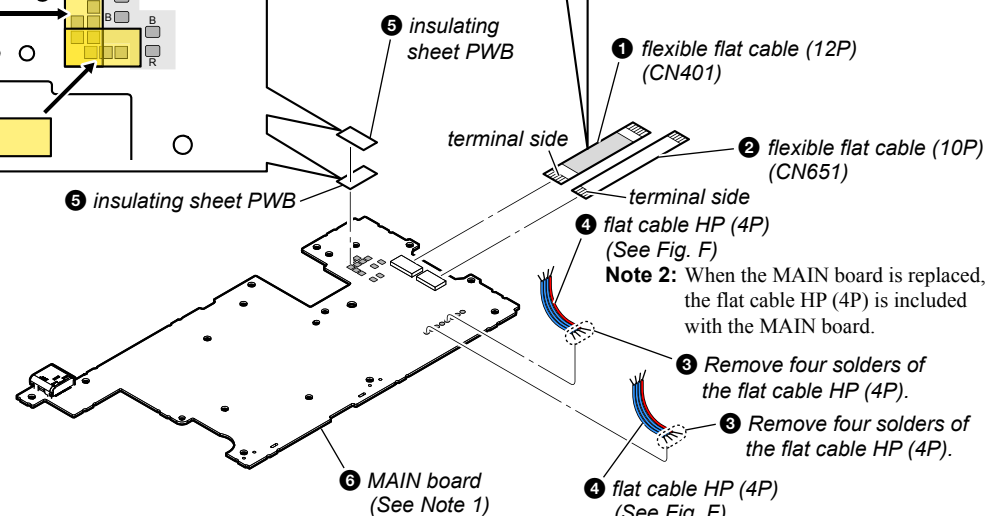
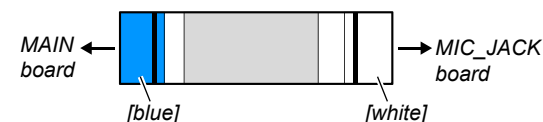
2-23. MAIN BOARD

Note 1: When the MAIN board is replaced, make sure to refer to the following pages and perform each procedure.
 DESTINATION SETTING METHOD (page 8)
 BLUETOOTH CONNECTION CHECKING METHOD (page 10)
 XLR/TRS JACK CHECKING METHOD (page 15)
 LINE OUT JACK CHECKING METHOD (page 19)

• **Pasting position of the insulating sheet PWB**

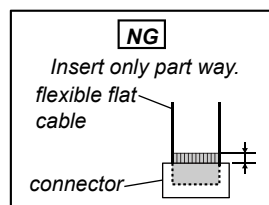
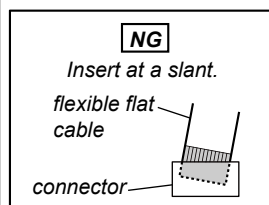
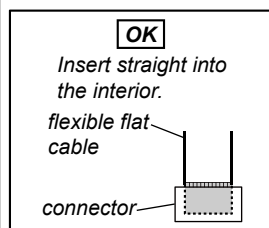


• **Installation direction of the flexible flat cable (12P)**



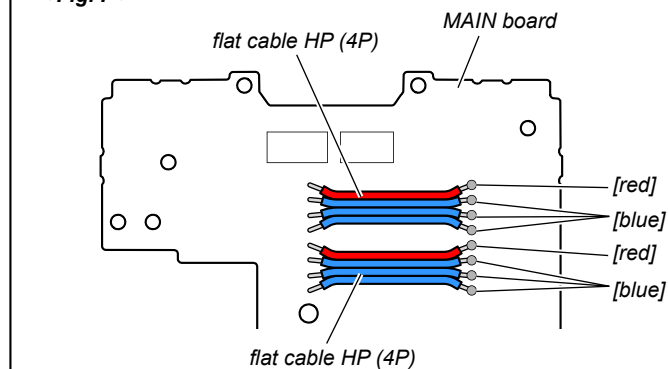
• **How to install the flexible flat cable**

Insert the flexible flat cable straight into the interior.
 There is a possibility that using this unit without the connector correctly installed will damage it.

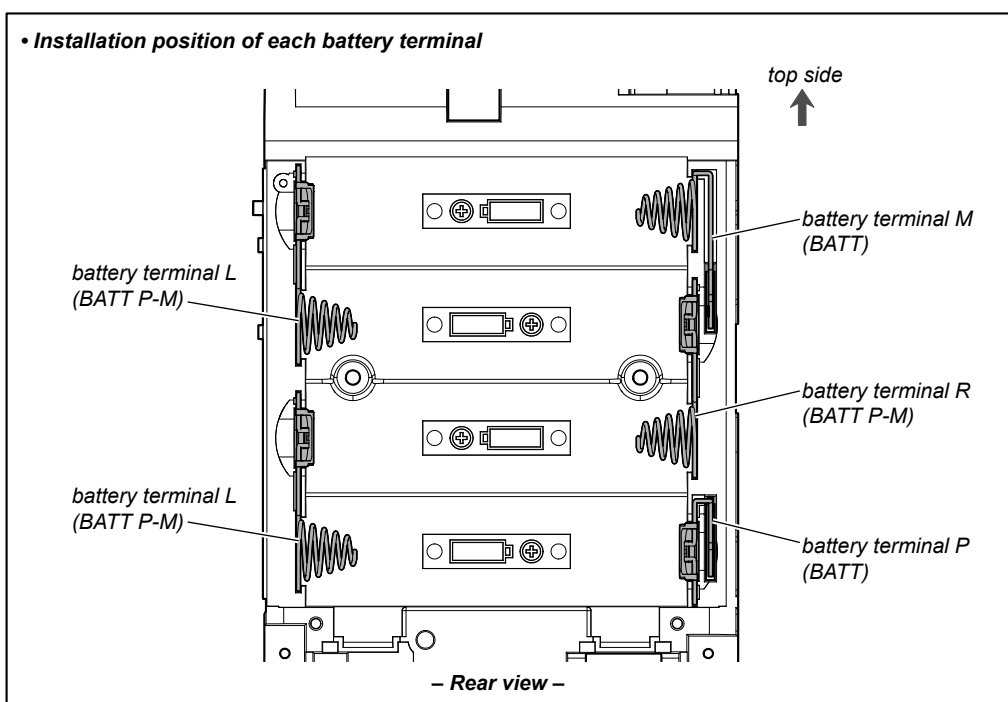
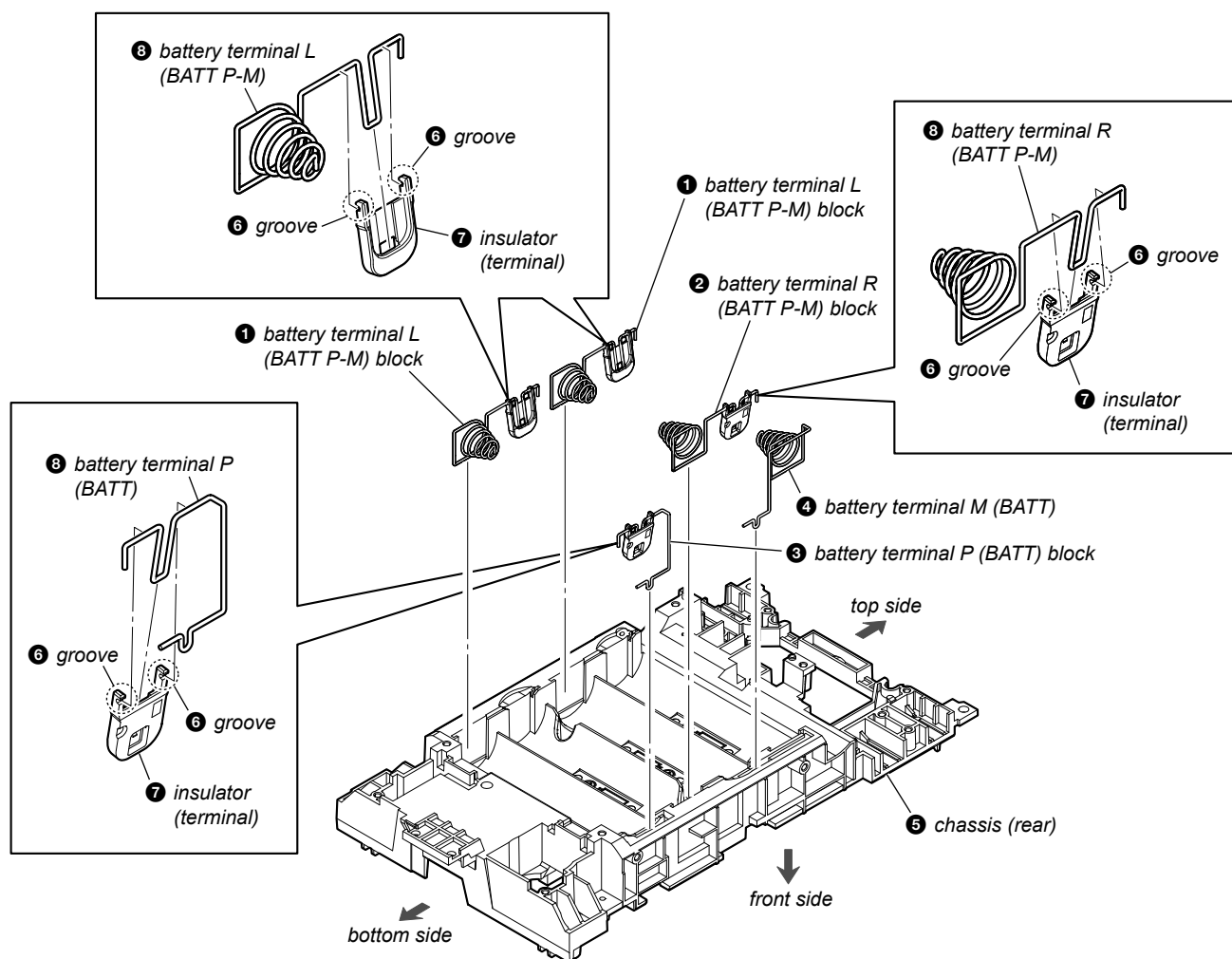


• **Flat cable HP (4P) setting**

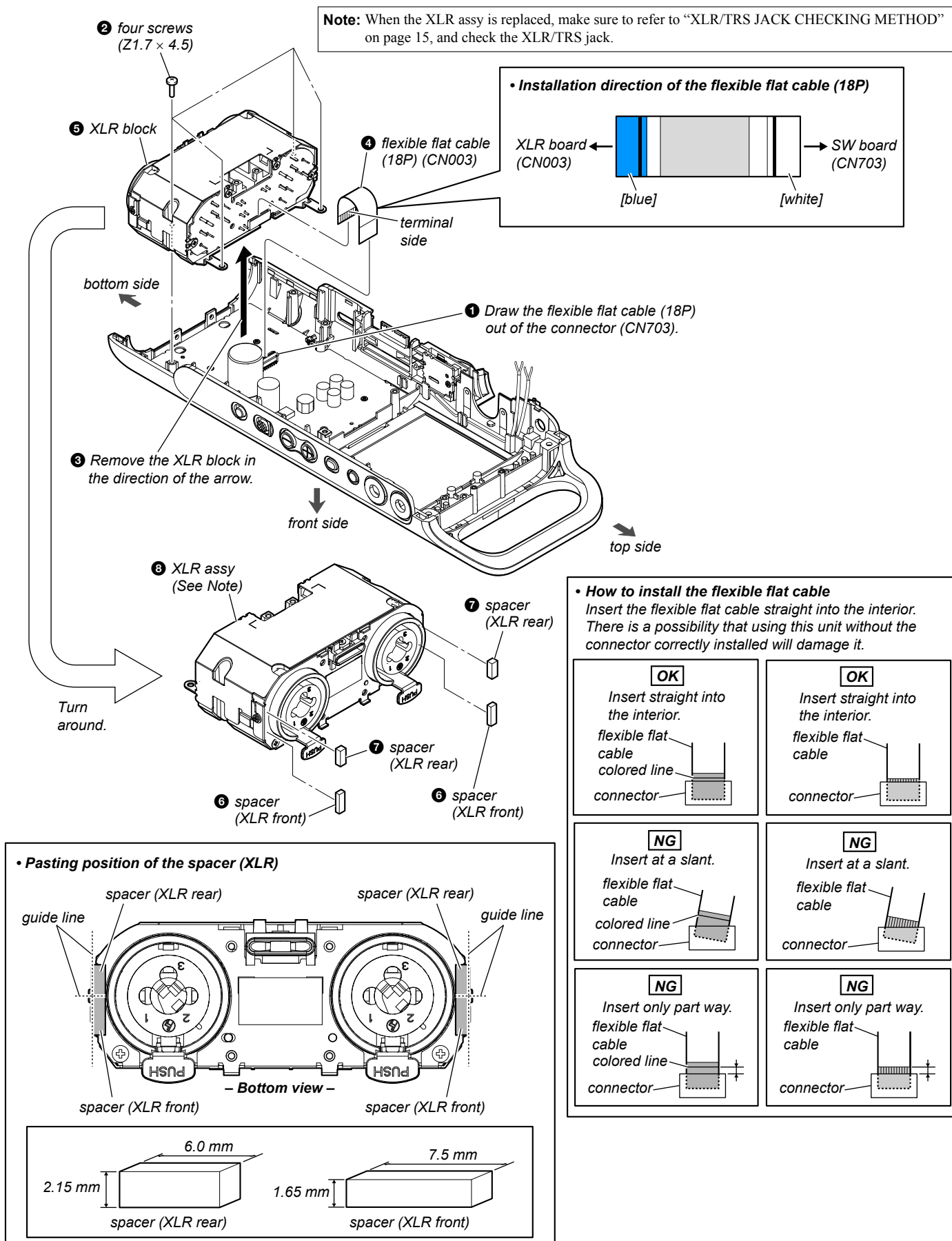
< Fig. F >



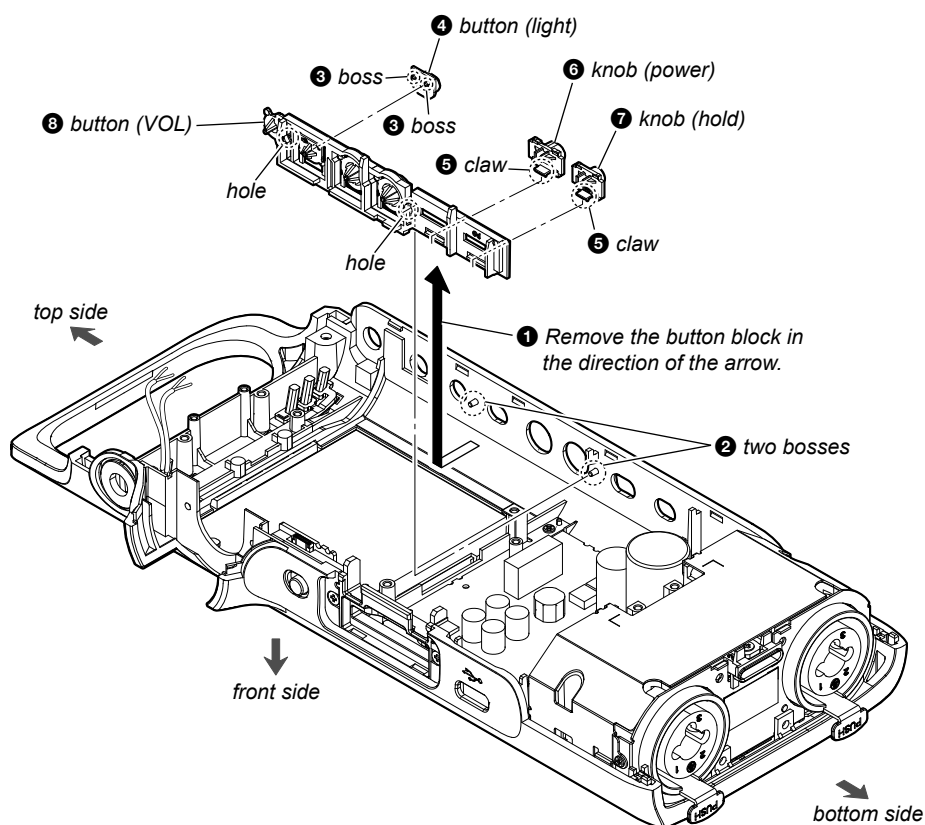
2-24. CHASSIS (REAR), BATTERY TERMINAL



2-25. XLR ASSY



2-26. BUTTON (VOL)

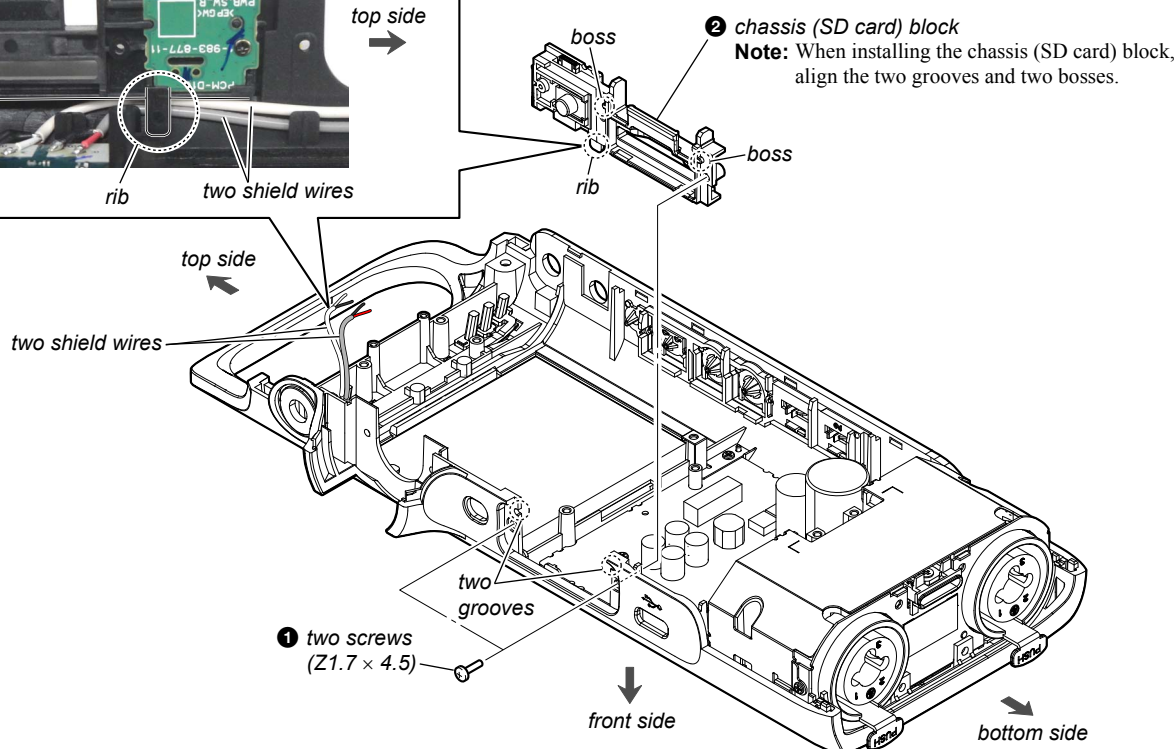
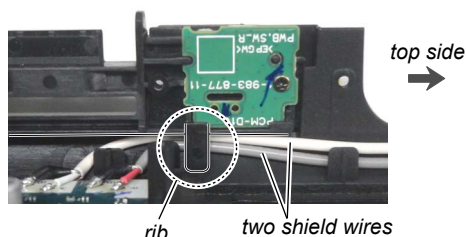


2-27. CHASSIS (SD CARD) BLOCK

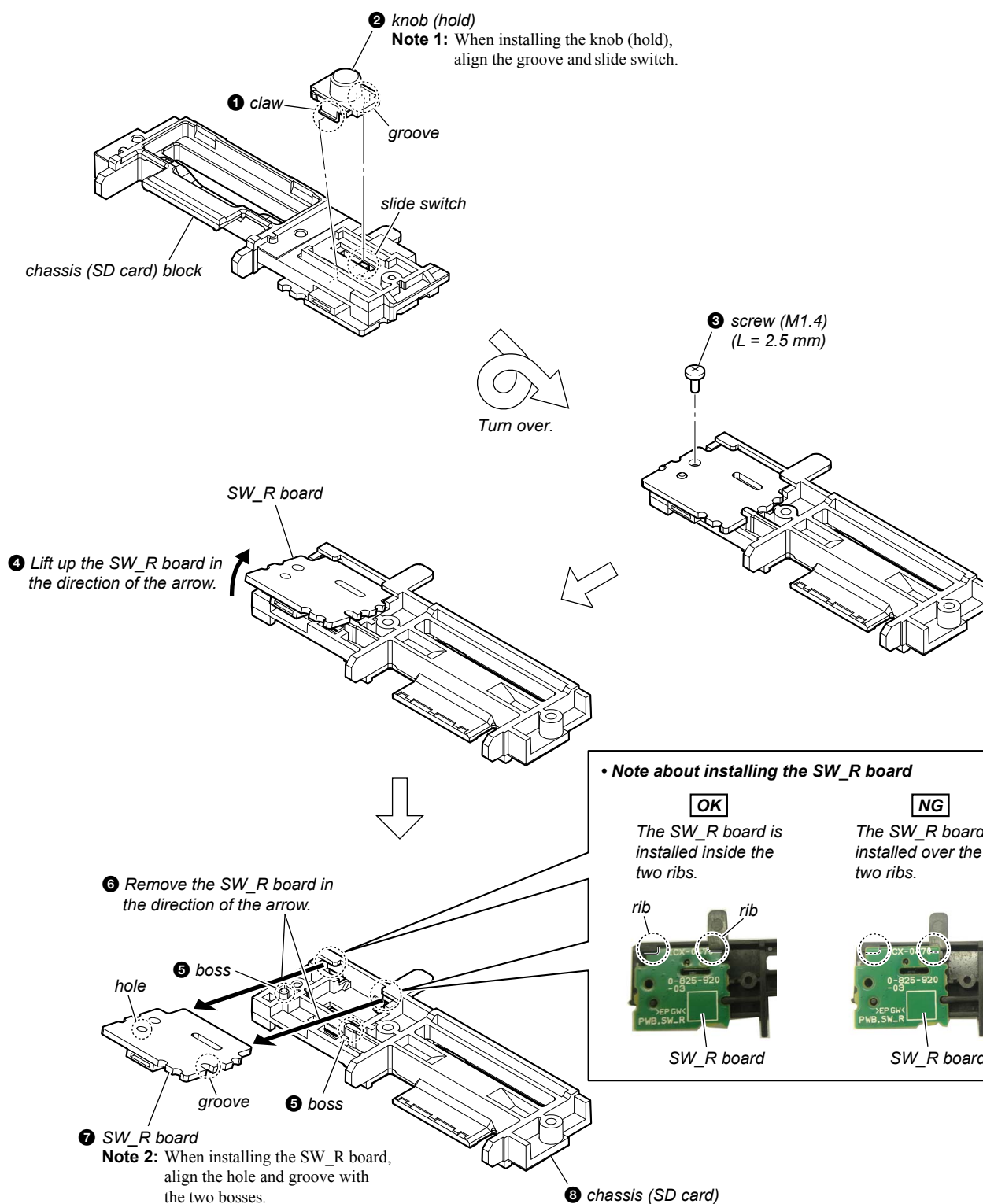
• Note about installing the chassis (SD card) block

When the chassis (SD card) block is installed, secure the two shield wires with the rib of the chassis (SD card) block.

– Inner view –



2-28. SW_R BOARD

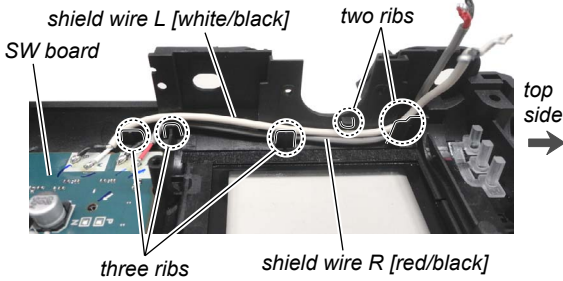


2-29. SW BOARD BLOCK

• Shield wire setting

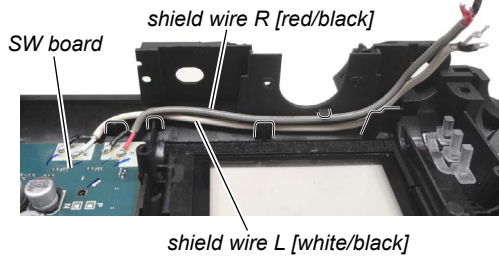
Secure the two shield wires with the five ribs of the front panel block.

Note 1: Arrange shield wire L [white/black] on top of shield wire R [red/black].



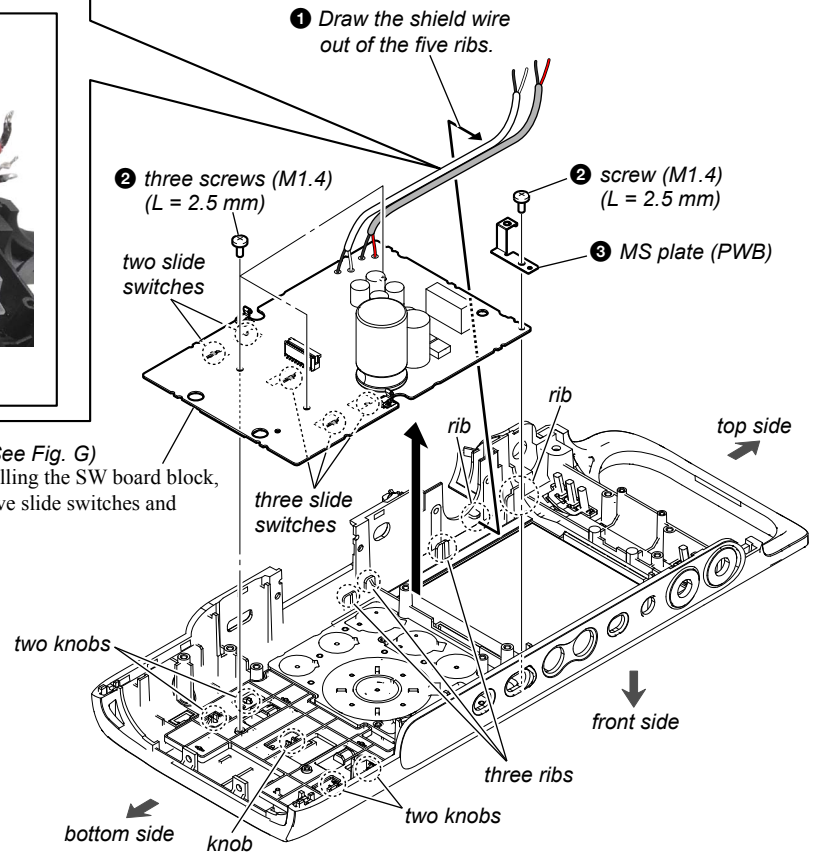
NG

Shield wire R [red/black] is arranged on top of shield wire L [white/black].



④ SW board block (See Fig. G)

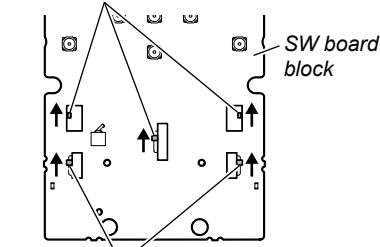
Note 2: When installing the SW board block, align the five slide switches and five knobs.



• How to install the SW board block

< Fig. G > Align the five slide switches with the five knobs, and install the SW board block.

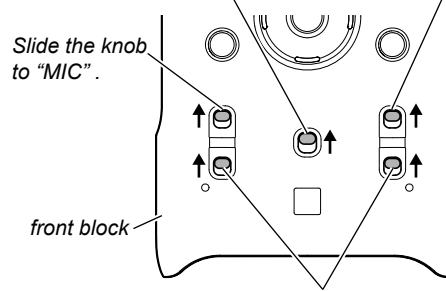
Slide the three slide switches to "MIC".



Slide the two slide switches to "ON".

Slide the knob to "MIC/LINE".

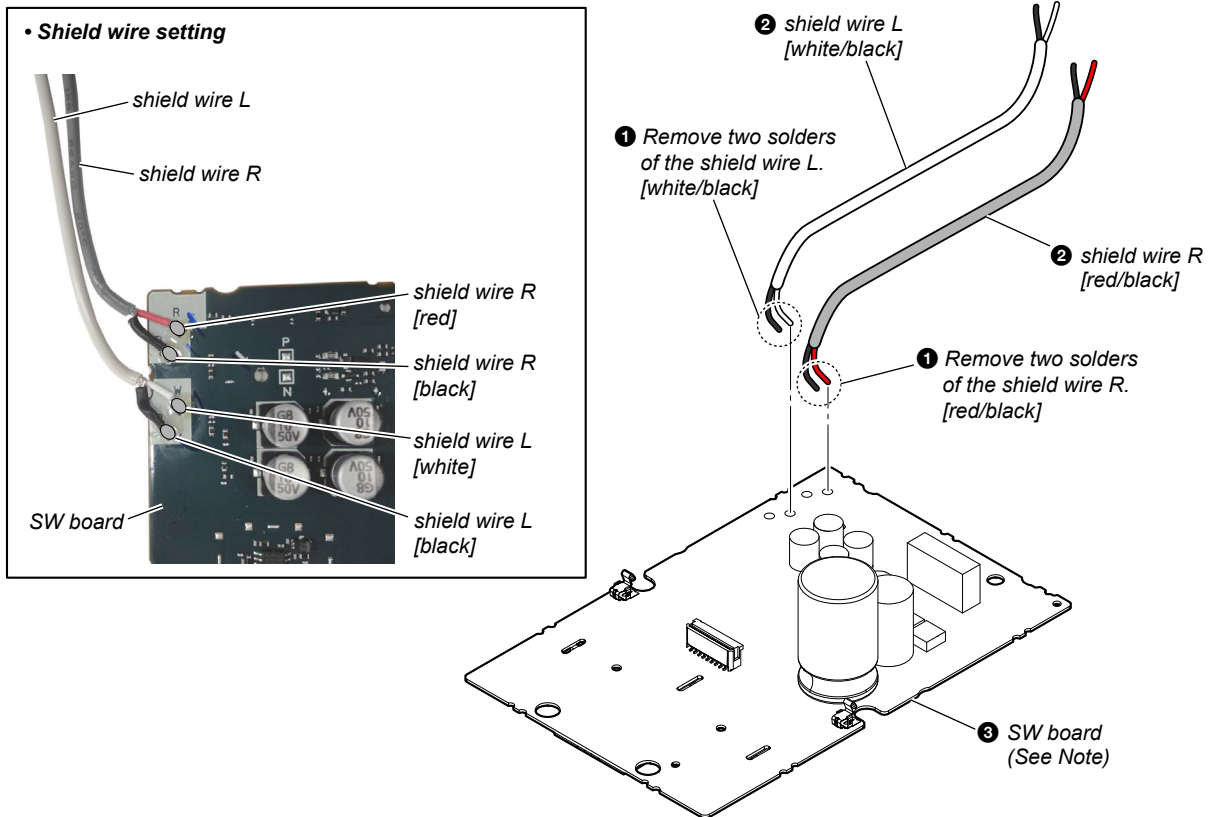
Slide the knob to "MIC".



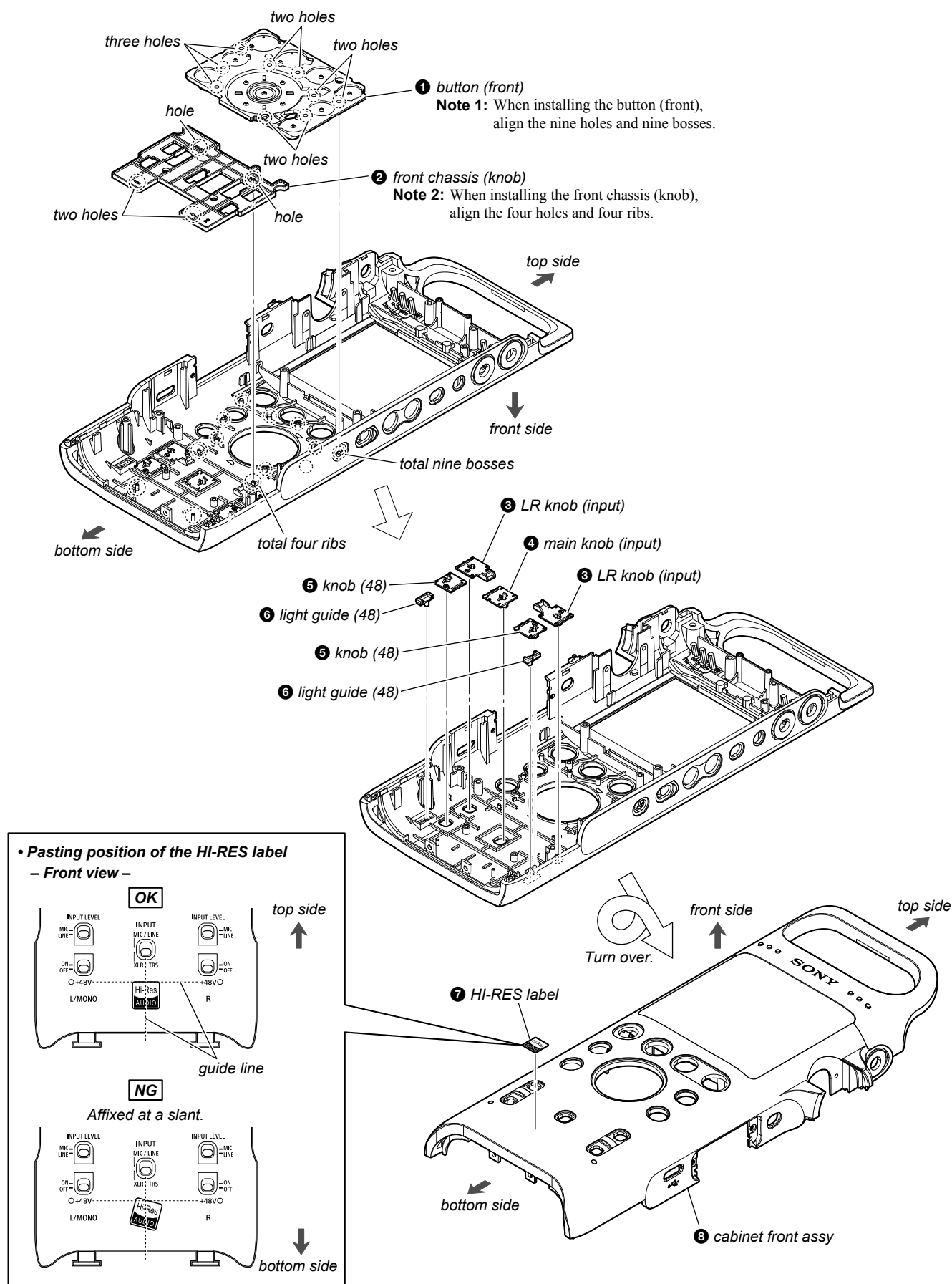
Slide the two knobs to "ON".

2-30. SW BOARD

Note: When the SW board is replaced, make sure to refer to “XLR/TRS JACK CHECKING METHOD” on page 15, and check the XLR/TRS jack.



2-31. CABINET FRONT ASSY



SECTION 3 TEST MODE

Note 1: The information which are not opened to customers are included in the following procedure. After you are cautious of handling of information, execute work under the sufficient administration.
When the leakage has been revealed by any chance, the source of information is specified.

Note 2: There is a step of executing "Factory Shipment" in the test mode item. Executing "Factory Shipment" will initialize the built-in memory files and settings. Backup the built-in memory files to a PC or SD card beforehand.

Beforehand preparation:

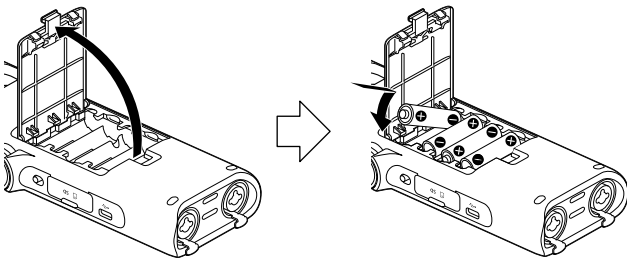
- Open the battery lid on the rear side of main unit, install the four size AA batteries.

Note 3: Use the following batteries so that the batteries will not run out during work.

New alkaline battery

or

Fully charged Ni-MH battery

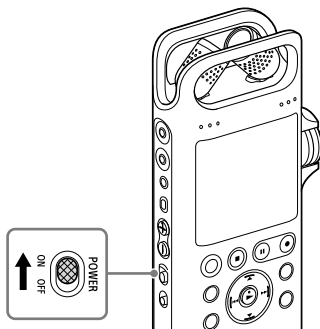


- Refer to "BACKUP OF THE BUILT-IN MEMORY FILES" on page 5, be sure to backup the files have been recorded in the built-in memory beforehand.

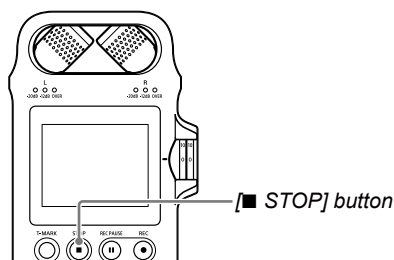
1. SETTING THE TEST MODE

Setting method:

- Turn the power on by turning ON of the [POWER] switch on the left side of main unit.

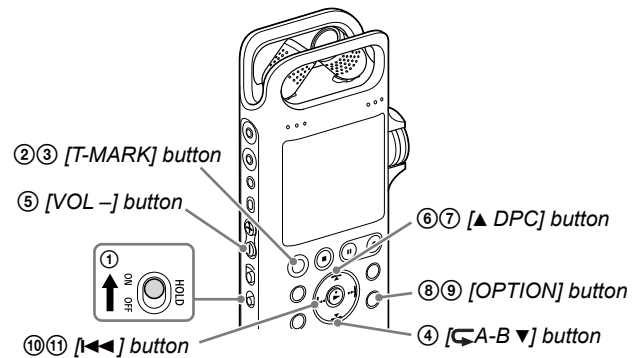


- Turn the stopped state by pressing the [■ STOP] on the front side of main unit.



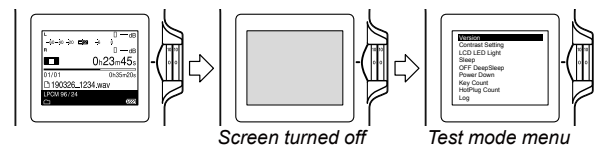
- Operate each button in the following order.

- ① Turn on the [HOLD] switch.
- ② Press the [T-MARK] button.
- ③ Press the [T-MARK] button.
- ④ Press the [↵A-B ▼] button.
- ⑤ Press the [VOL -] button.
- ⑥ Press the [▲ DPC] button.
- ⑦ Press the [▲ DPC] button.
- ⑧ Press the [OPTION] button.
- ⑨ Press the [OPTION] button.
- ⑩ Press the [◀◀] button.
- ⑪ Press the [◀◀] button.

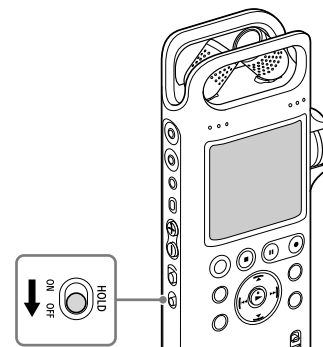


- After the screen is disappeared, the screen is displayed again, the and the test mode menu is displayed.

Note: If the screen is disappeared and is not displayed, remove the batteries, and install them again, operate from step 1.



- Turn off the [HOLD] switch with state displayed the test mode menu.



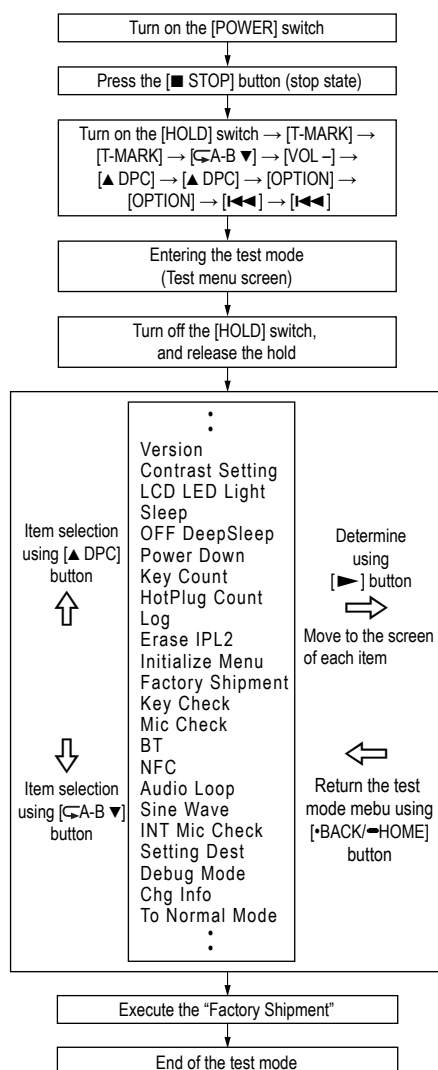
2. RELEASING THE TEST MODE

Select the "Factory Shipment" from the test mode menu and execute it.

After the "Factory Shipment" is completed, test mode state is released, this unit reboots automatically, and it boots in the normal mode.

(Refer to "4-12. Factory Shipment" on page 55)

3. CONFIGURATION OF THE TEST MODE



4. OPERATION OF THE TEST MODE

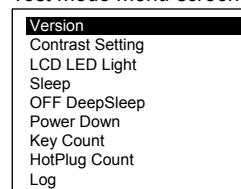
4-1. Version

Model name, destination, firmware version, eMMC NAND capacity and iSerial (unique ID) can be checked.

Procedure:

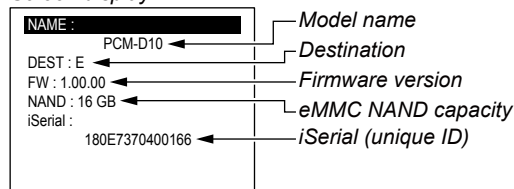
1. Enter the test mode.
(Refer to "1. SETTING THE TEST MODE" on page 51)
2. Press the [▲ DPC]/[A-B ▼] buttons to select the "Version".

Test mode menu screen



3. Press the [▶] button to display the each check screen.
(Displayed characters/values in the following figure are example)

Screen display



Destination:

UC : US and Canadian models

E : E model

CN : Chinese model

4. Press the [BACK/◀HOME] button, return to test mode menu screen.

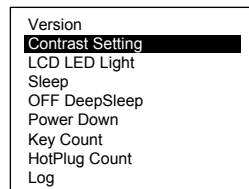
4-2. Contrast Setting

The LCD contrast can be set.

Procedure:

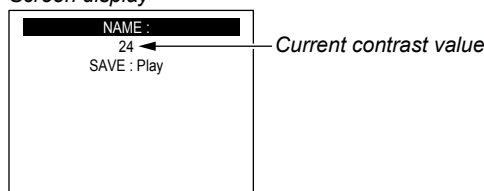
1. Enter the test mode.
(Refer to “1. SETTING THE TEST MODE” on page 51)
2. Press the [▲ DPC]/[◀ A-B ▼] buttons to select the “Contrast Setting”.

Test mode menu screen



3. Press the [▶] button to display the LCD contrast setting screen.
(Displayed values in the following figure are example)

Screen display

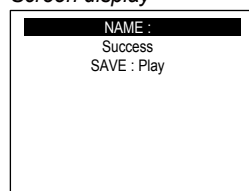


Button input settings under this mode of operation:

- [◀◀] : Contrast value down
- [▶▶] : Contrast value up
- [▶] : The current contrast value is set (saved)

4. Press the [▶] button to complete the contrast value setting.
“Success” is displayed.

Screen display



5. Press the [•BACK/◀HOME] button, return to test mode menu screen.

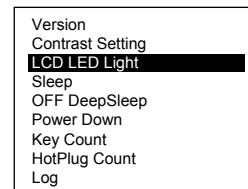
4-3. LCD LED Light

The lighting state of the LCD and the each indicator can be checked.

Procedure:

1. Enter the test mode.
(Refer to “1. SETTING THE TEST MODE” on page 51)
2. Press the [▲ DPC]/[◀ A-B ▼] buttons to select the “LCD LED Light”.

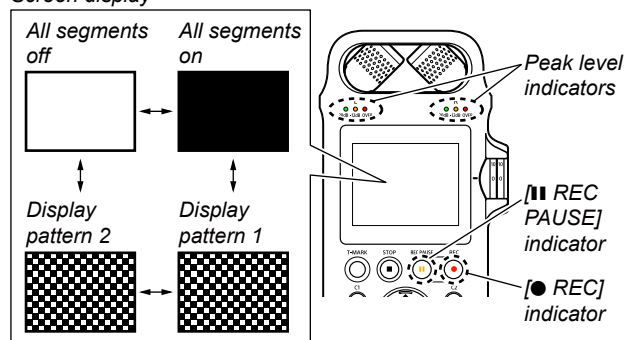
Test mode menu screen



3. Press the [▶] button to display the LCD and each indicator lighting check screen.

(It turns into the white screen with all segments and lamps turned off)

Screen display



Button input settings under this mode of operation:

- [◀◀]/[▶▶] : Screen display pattern change
- [■ STOP] : [● REC] indicator on/off change
- [● REC] : Peak level indicators and [■ REC PAUSE] indicator on/off change

4. Press the [•BACK/◀HOME] button, return to test mode menu screen.

4-4. Sleep

Note: Not used for the servicing.

4-5. OFF DeepSleep

Note: Not used for the servicing.

4-6. Power Down

Note: Not used for the servicing.

4-7. Key Count

Note: Not used for the servicing.

If you accidentally executed this mode and entered it, return to the test mode menu screen by removing the batteries, inserting them again and turning the power on.

Even if you removed the batteries, test mode is not released.

4-8. HotPlug Count

Note: Not used for the servicing.

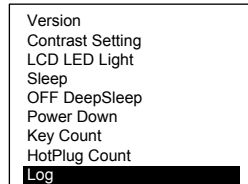
4-9. Log

The simple service log can be outputted.

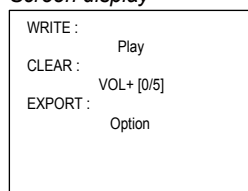
(The used time, the charging time, the number of times of pressed the buttons, etc.)

Procedure:

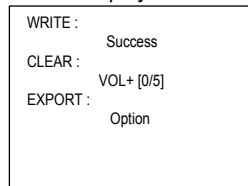
1. Enter the test mode.
(Refer to “1. SETTING THE TEST MODE” on page 51)
2. Press the [▲ DPC]/[◀ A-B ▼] buttons to select the “Log”.

Test mode menu screen

3. Press the [▶] button to display the Log output screen.

Screen display

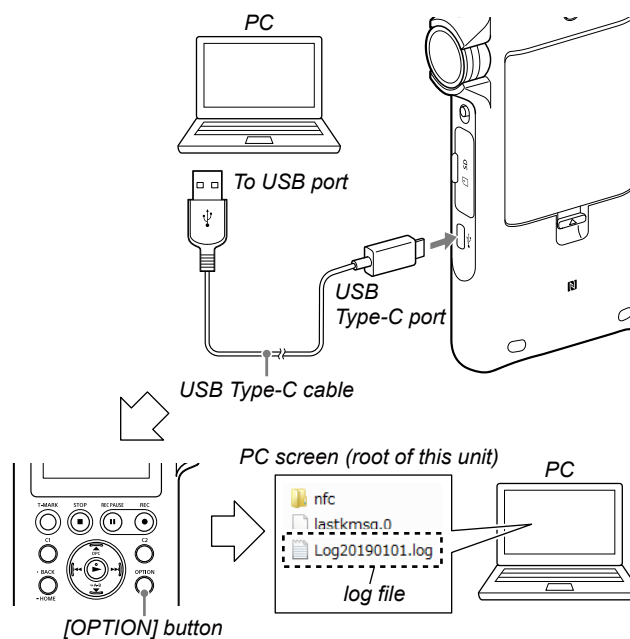
4. Press the [▶] button to complete the log writing, “Success” is displayed.

Screen display

5. With connecting the this unit to the PC, press the [OPTION] button to output to the log file on the root of this unit.

Note 1: Number of log file name is the date that has been set on this unit.

Note 2: By releasing the test mode, and be connected this unit to the PC in the normal mode, can not see the log file.



6. Press the [OPTION] button again to release the connection of this unit and the PC.

7. Press the [•BACK/◀HOME] button, return to test mode menu screen.

4-10. Erase IPL2

Note: This mode do not execute absolutely in the service.
When execute this mode, firmware is destroyed.

4-11. Initialize Menu

Note: Not used for the servicing.

– Continued to upper right –

4-12. Factory Shipment

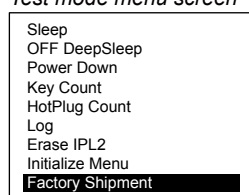
It can be initialize to the factory shipment state and release the test mode.

Note 1: After the repair of this unit has been completed all, before returning this unit to customer, be sure to execute. Executing "Factory Shipment" will initialize the built-in memory files and settings. Backup the built-in memory files to a PC or SD card beforehand, and after executing "Factory Shipment", transfer the files to the same folder in the device again.

Procedure:

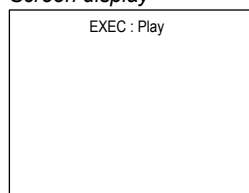
1. Enter the test mode.
(Refer to "1. SETTING THE TEST MODE" on page 51)
2. Press the [▲ DPC]/[◀A-B ▼] buttons to select the "Factory Shipment".

Test mode menu screen



3. Press the [▶] button to display the initialized screen.

Screen display



4. The [▶] button is pressed, files and settings of the built-in memory is initialized. Then test mode is released and reboot.

Note 2: "BD address", "iSerial" and "LCD contrast" are not initialized. Files, menu settings and clock display of the built-in memory is all initialized.

5. The file of built-in memory that was backup beforehand, return to the same folder of this unit.

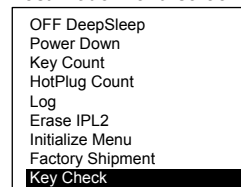
4-13. Key Check

Operation of buttons and switches can be checked.

Procedure:

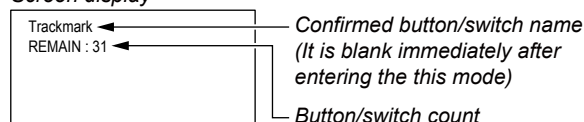
1. Enter the test mode.
(Refer to "1. SETTING THE TEST MODE" on page 51)
2. Press the [▲ DPC]/[◀A-B ▼] buttons to select the "Key Check".

Test mode menu screen



3. Press the [▶] button to display the button/switch operation check screen.
(Displayed characters/values in the following figure are example)

Screen display



4. Whenever target buttons or target switches are operated, the button/switch count is decreased.

Target buttons (17 types):

[◀OUTPUT STEREO/L/R], [LIGHT], [VOL +], [VOL -], [T-MARK], [■ STOP], [■ REC PAUSE], [● REC], [C1], [C2], [•BACK/HOME], [OPTION], [▲ DPC], [◀A-B ▼], [I◀◀], [▶▶], [▶]

Target switches (14 types):

[POWER] ("ON" direction), [HOLD] ("ON" direction), [MIC ATT] ("20" direction), [MIC/LINE INPUT LEVEL] ((MIC/LINE input type selection) "MIC" direction/"LINE" direction), [XLR/TRS INPUT LEVEL] ((XLR/TRS input type selection L side) "MIC" direction/"LINE" direction), [XLR/TRS INPUT LEVEL] ((XLR/TRS input type selection R side) "MIC" direction/"LINE" direction), [+48V] ((L side) "ON" direction), [+48V] ((R side) "ON" direction), [INPUT] ("MIC/LINE" direction/"XLR/TRS" direction), built-in microphones position (both L/R microphones are tilted inward)

5. After all buttons and switches are decided, return to test mode menu screen.

Note: If the releasing this mode on the way, return to the test mode menu screen by removing the batteries, inserting them again and turning the power on.

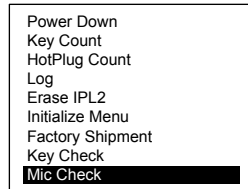
Even if you removed the batteries, test mode is not released.

4-14. Mic Check

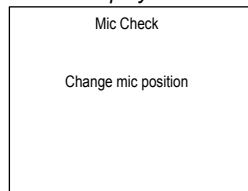
Built-in microphones direction can be checked.

Procedure:

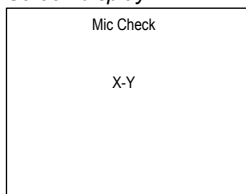
1. Enter the test mode.
(Refer to “1. SETTING THE TEST MODE” on page 51)
2. Press the [▲DPC]/[◀A-B ▼] buttons to select the “Mic Check”.

Test mode menu screen

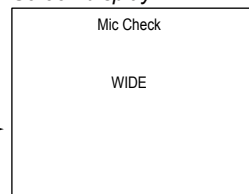
3. Press the [▶] button to display the built-in microphones direction check screen.

Screen display

4. Switched the direction of the built-in microphones and when the L/R microphones is on the state of both tilted inward “X-Y” is displayed. It is in other states is displayed “WIDE”.

Screen display

Both L/R microphones are tilted inward.

Screen display

Both L/R microphones are not tilted inward.

5. Press the [•BACK/◀HOME] button, return to test mode menu screen.

4-15. BT

Note: Not used for the servicing.

If you want to check the BD address, check “Bluetooth”→“Bluetooth Information” in the HOME menu of normal mode.

4-16. NFC

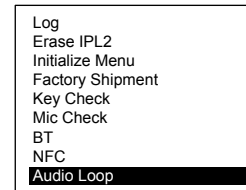
Note: Not used for the servicing.

4-17. Audio Loop

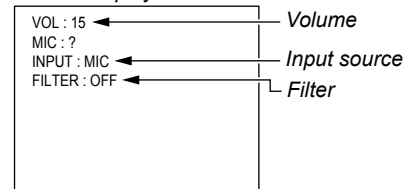
The audio-related (microphone input system) can be checked.

Procedure:

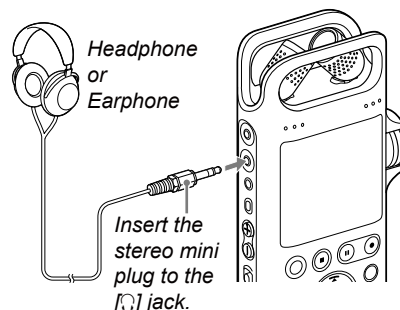
1. Enter the test mode.
(Refer to “1. SETTING THE TEST MODE” on page 51)
2. Press the [▲ DPC]/[◀A-B ▼] buttons to select the “Audio Loop”.

Test mode menu screen

3. Press the [▶] button to display the audio input screen.
(Displayed characters/values in the following figure are example)

Screen display

4. Connect the headphone or earphone to this unit, to check each input, the operation of each setting.

**Button input settings under this mode of operation:**

- [VOL +] : Volume up
 [VOL -] : Volume down
 [▶▶] : Input source change
 (MIC → EXT MIC → AUDIO IN → MIC...)
 [OPTION] : Filter change
 (OFF → LCF → NCF → OFF...)

5. Press the [•BACK/◀HOME] button, return to test mode menu screen.

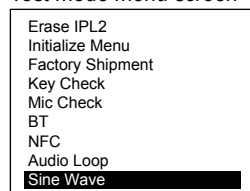
4-18. Sine Wave

The audio-related (headphone, speaker output system) can be checked.

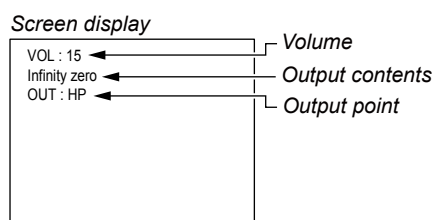
Procedure:

1. Enter the test mode.
(Refer to “1. SETTING THE TEST MODE” on page 51)
2. Press the [▲ DPC]/[◀ A-B ▼] buttons to select the “Sine Wave”.

Test mode menu screen



3. Press [▶▶] button to display the audio output screen is displayed.
(Displayed characters/values in the following figure are example)



4. Check the operation of each output.

Button input settings under this mode of operation:

- [VOL +] : Volume up
- [VOL -] : Volume down
- [▶▶] : Audio output playback/pause change (PLAY/PAUSE)
- [■ STOP] : Audio output stop
- [◀◀]/[▶▶] : Output contents change (Infinity zero/1 kHz/1 kHz (L-ch)/1 kHz (R-ch))
- [OPTION] : Output point change (HP/SP)

5. Press the [•BACK/◀HOME] button, return to test mode menu screen.

4-19. INT Mic Check

Note: Not used for the servicing.

4-20. Setting Dest

The destination setting can be executed.

Refer to “DESTINATION SETTING METHOD” on page 8 for this item.

4-21. Debug Mode

Note: Not used for the servicing.

4-22. Chg Info

Note: Not used for the servicing.

4-23. To Normal Mode

Note: Not used for the servicing.

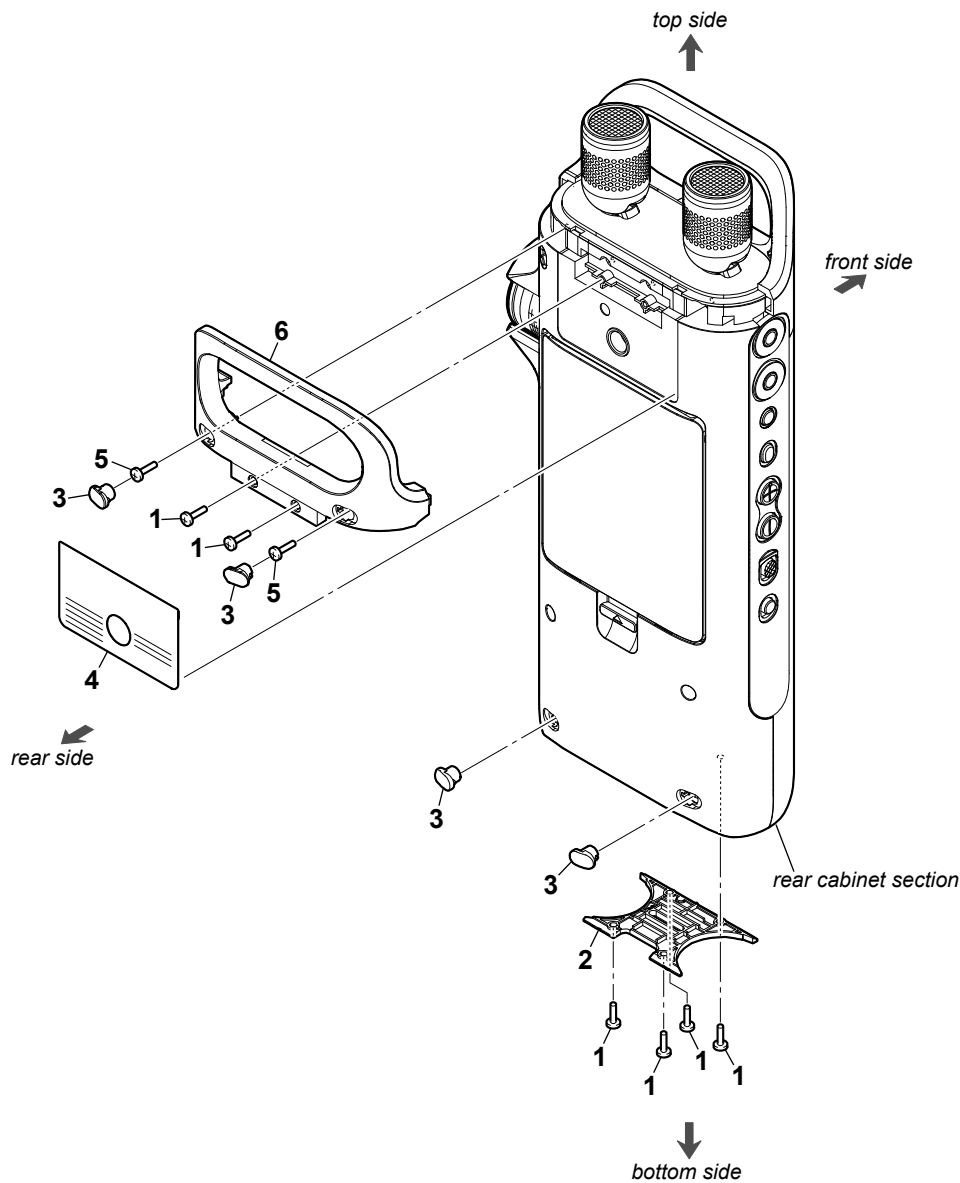
If you accidentally returned the normal mode by entering this mode, refer to “1. SETTING THE TEST MODE” on page 51 to enter test mode again, and then execute “4-12. Factory Shipment” on page 55.

SECTION 4
EXPLODED VIEWS

Note:

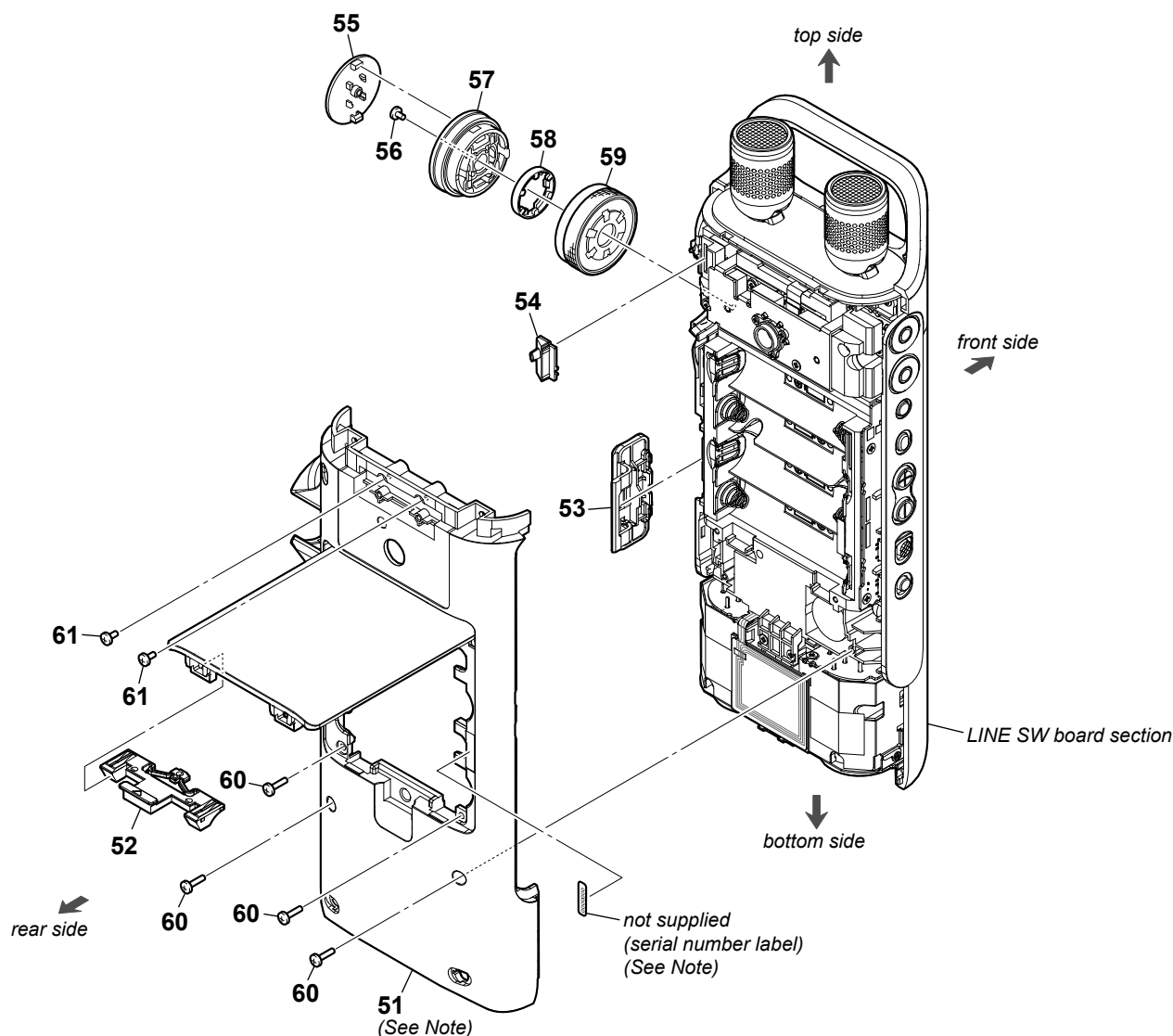
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:
KNOB, BALANCE (WHITE) . . . (RED)
↑ ↑
Parts Color Cabinet's Color

4-1. REAR GUARD (MIC) SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	474733001	SCREW, +-Z 1.7X4.5		4	474105641	LABEL (MODEL NUMBER) (Chinese)	
2	474102101	ORNAMENT (XLR)		5	474457201	SCREW, 0+P M2X6 EG	
3	474101901	FOOT		6	474099901	GUARD (MIC), REAR	
4	474105611	LABEL (MODEL NUMBER) (US, Canadian)					
4	474105631	LABEL (MODEL NUMBER) (E)					

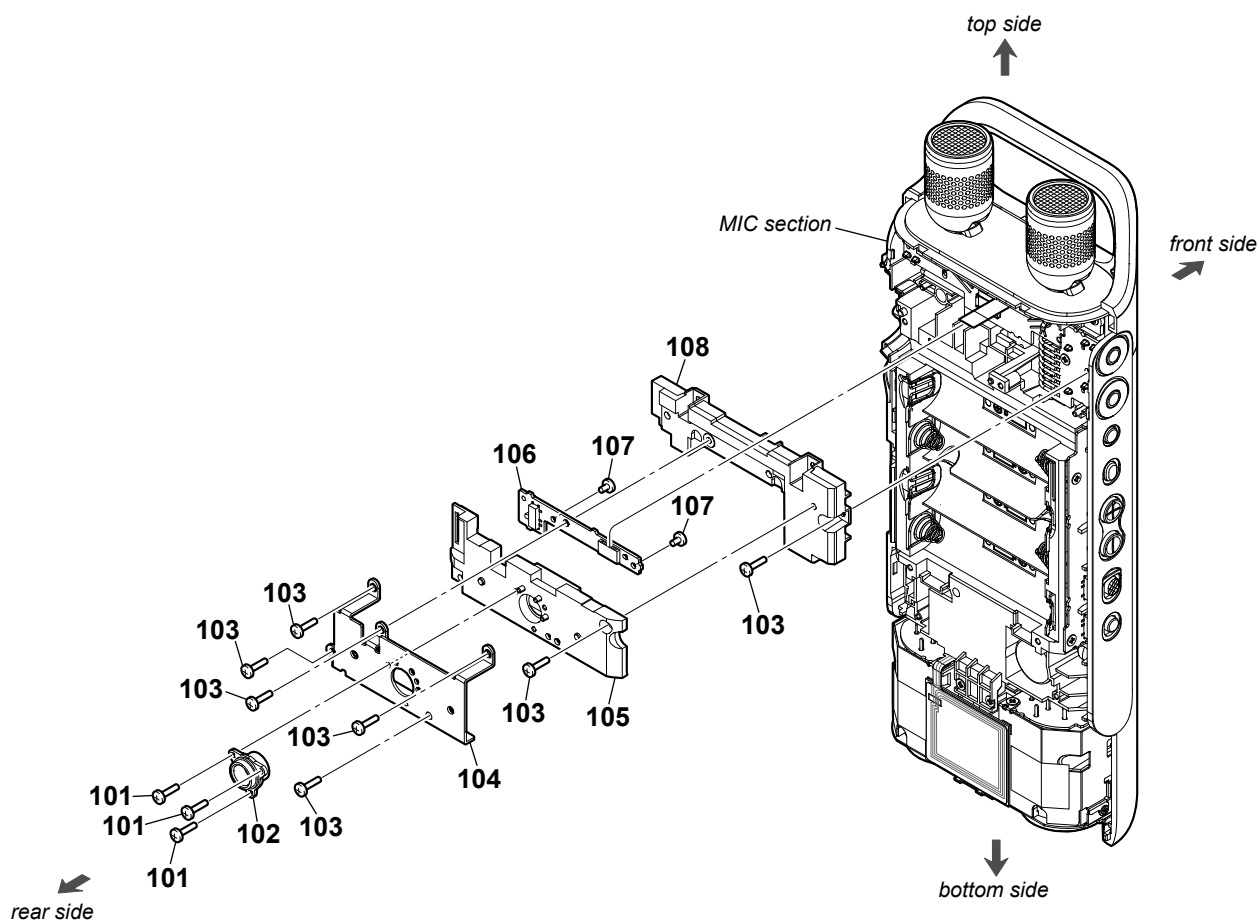
4-2. REAR CABINET SECTION



Note: When the cabinet (rear) assy (Ref. No. 51) is replaced, make sure to peel off the serial number label from the old cabinet (rear) assy and affix it to the new one.
(To re-affix the serial number label, refer to “ABOUT THE SERIAL NUMBER” on page 23)

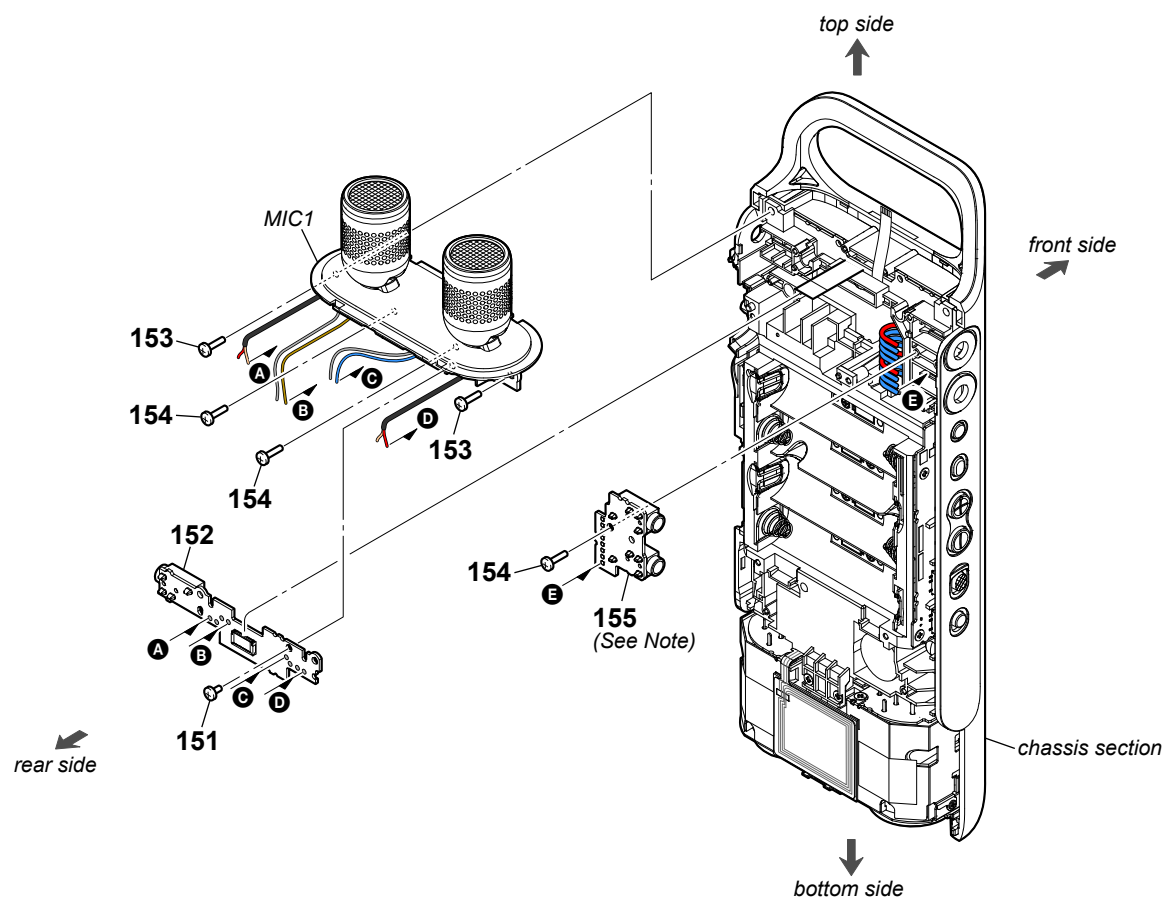
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X25978471	CABINET (REAR) ASSY (Including Battery lid)	(See Note)	57	X50000081	SVX KNOB REC VOL ASSY (Including Chassis (REC VOL), REC VOL plate (click))	
52	474248901	KNOB (BATT)		58	474106601	RUBBER (REC VOL)	
53	474101101	LID (SD CARD)		59	474100601	KNOB (REC VOL), L	
54	474101601	KNOB (INPUT), SIDE (MIC/LINE INPUT LEVEL switch)		60	474733001	SCREW, +Z 1.7X4.5	
55	474101801	ORNAMENT (REC VOL)		61	323444963	SCREW (M1.4) (L = 3.0 mm)	
56	323444927	SCREW (M1.4) (L = 2.5 mm)					

4-3. LINE SW BOARD SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	459530501	TAPPING (B1.4X5), SCREW		106	A2226558A	LINE SW BOARD, COMPLETE	
102	473815801	SCREW (TRIPOD)		107	334899881	SCREW (M1.4) (L = 2.5 mm)	
103	474733001	SCREW, +Z 1.7X4.5		108	474102801	CHASSIS (JACK)	
104	474104101	PLATE (TRIPOD)					
105	474102901	CHASSIS (USB)					

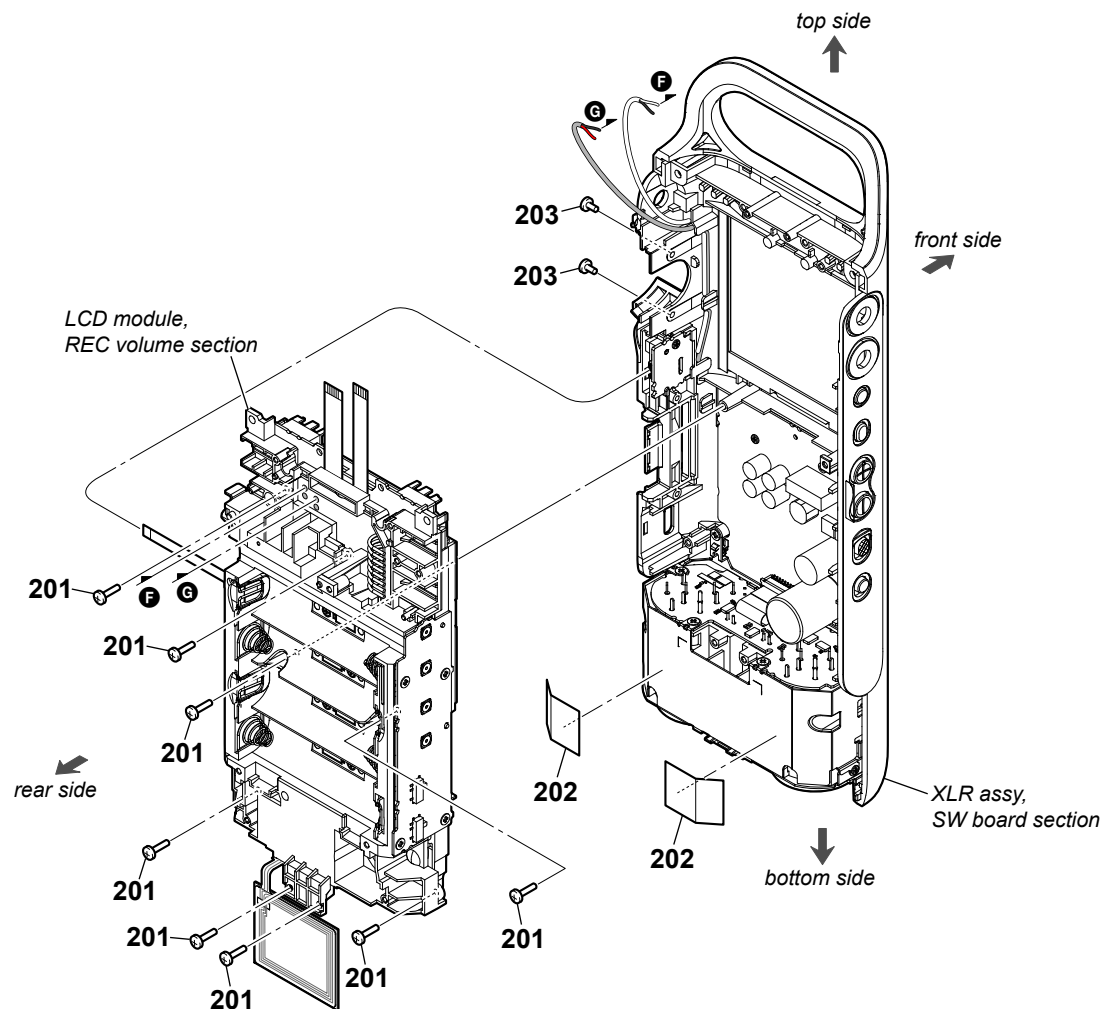
4-4. MIC SECTION



Note: When the complete HP_LINE_JACK board (Ref. No. 155) is replaced, make sure to refer to "LINE OUT JACK CHECKING METHOD" on page 19, and check the LINE OUT jack.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	323444927	SCREW (M1.4) (L = 2.5 mm)		MIC1	X50000101	SVX MIC ASSY (Including MIC SW board, Microphone electret CAP, MIC shaft, Ornament (MIC), Chassis, Cover (wire), Cam (hinge), Plate (cap MIC), Joint (MIC), Cap (MIC), Spring (MIC), Mesh (MIC), Sheet (joint MIC), Wire, Screw)	
152	A5000093A	MIC_JACK BOARD, COMPLETE					
153	474457101	SCREW, 0+P B2X8					
154	474733001	SCREW, +-Z 1.7X4.5					
155	A5000094A	HP_LINE_JACK BOARD, COMPLETE (See Note)					

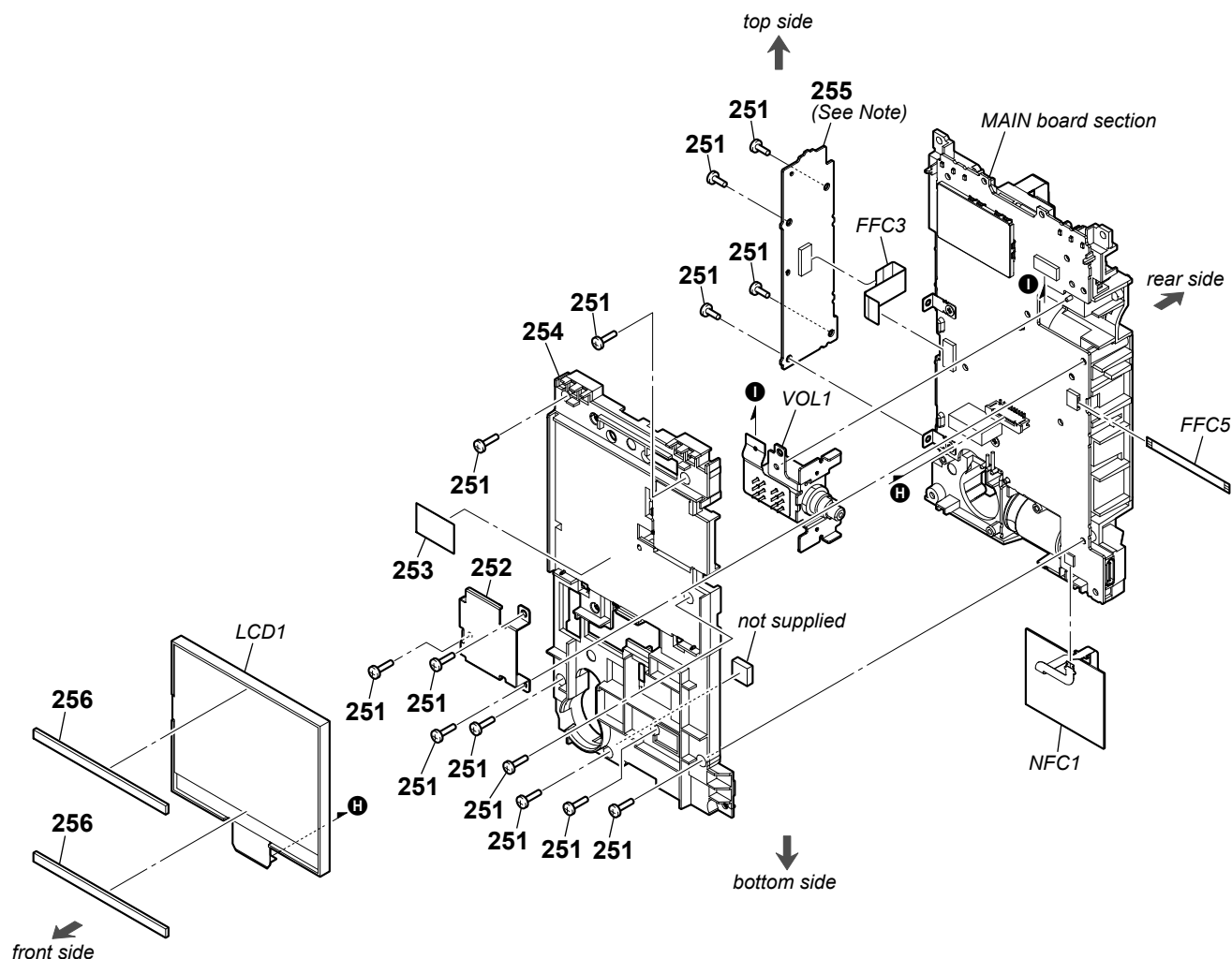
4-5. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
201	474733001	SCREW, +-Z 1.7X4.5	
202	500167001	SHEET (XLR), ADHESIVE	

Ref. No.	Part No.	Description	Remark
203	323444927	SCREW (M1.4) (L = 2.5 mm)	

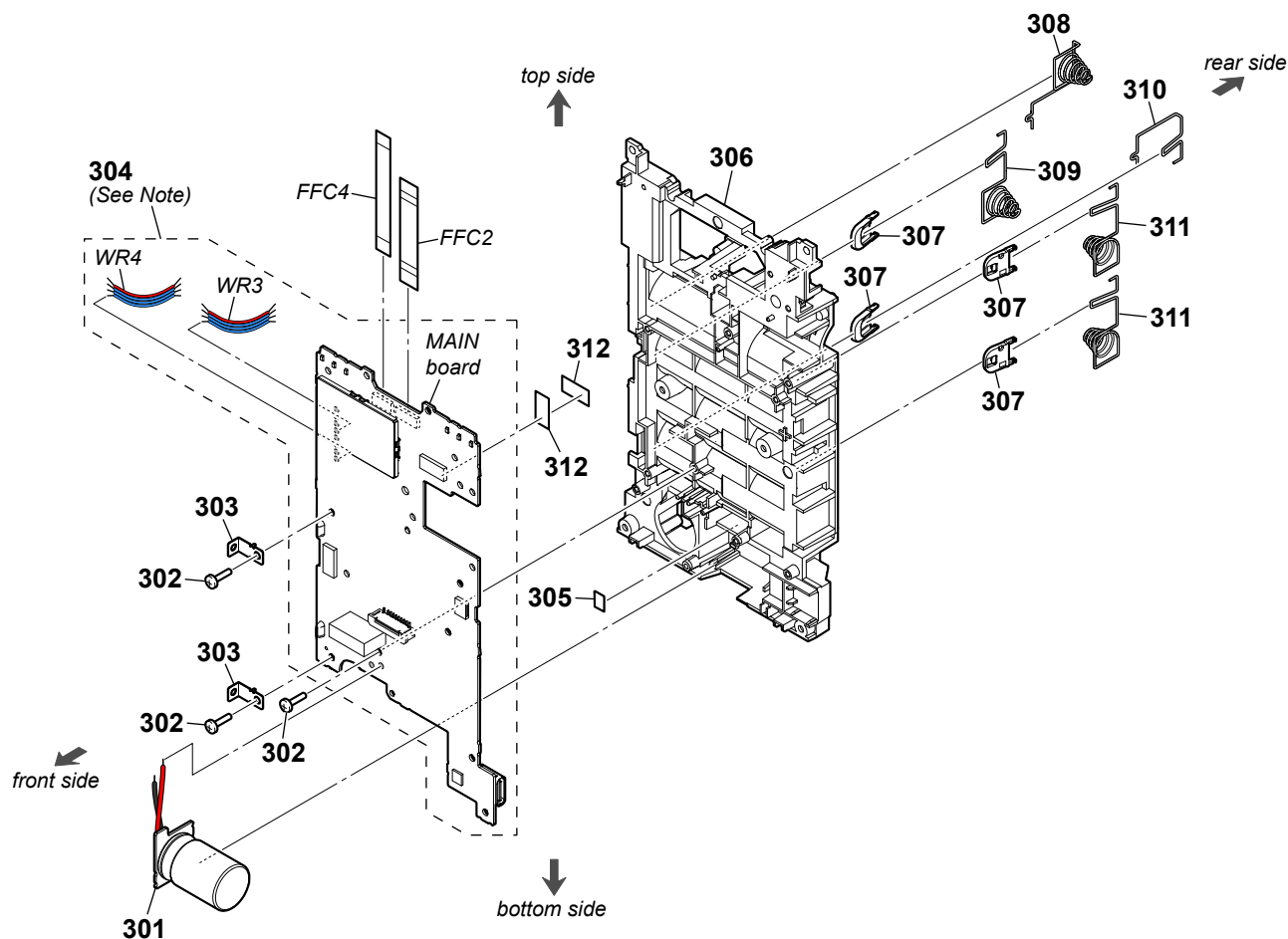
4-6. LCD MODULE, REC VOLUME SECTION



Note: When the complete SW_L board (Ref. No. 255) is replaced, make sure to refer to "BLUETOOTH CONNECTION CHECKING METHOD" on page 10 and check the Bluetooth connection.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	474733001	SCREW, +-Z 1.7X4.5		FFC3	191280311	CABLE, FLEXIBLE FLAT (14P)	
252	474104801	PLATE (PWB), MAIN		FFC5	191280511	CABLE, FLEXIBLE FLAT (6P)	
253	457549801	SHEET (EL), ADHESIVE		LCD1	151006311	LCD MODULE	
254	474102301	CHASSIS (MAIN)		NFC1	X50000131	SVX ANTENNA NFC (Including Spacer (NFC))	
255	A2226564A	SW_L BOARD, COMPLETE (See Note)		VOL1	X50000111	SVX REC VOLUME ASSY (Including REC VOLUME FLEXIBLE board, Plate (REC VOL))	
256	474106401	CUSHION (LCD)					

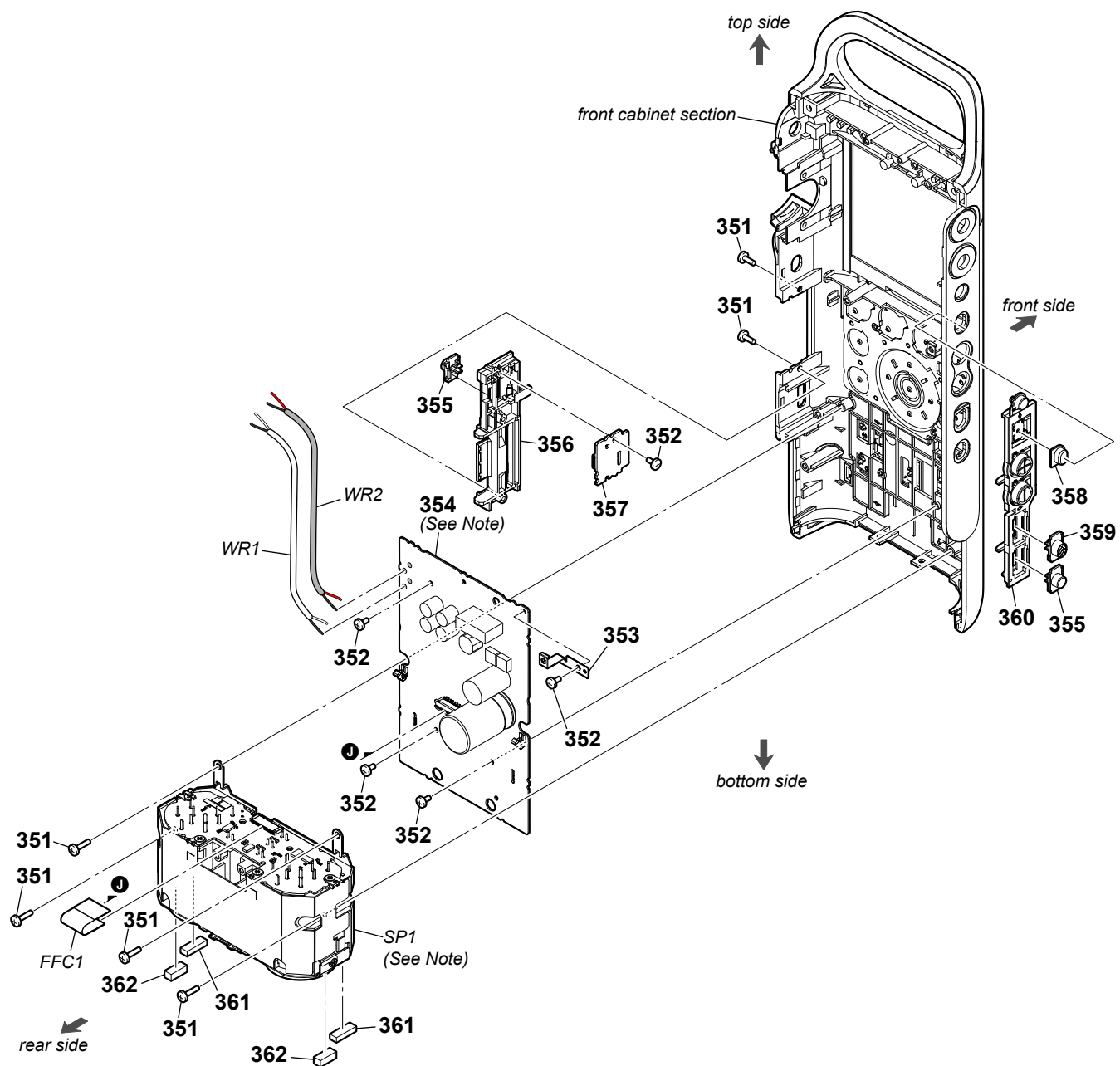
4-7. MAIN BOARD SECTION



Note: When the complete MAIN board (Ref. No. 304) is replaced, make sure to refer to the following pages and perform each procedure.
 DESTINATION SETTING METHOD (page 8)
 BLUETOOTH CONNECTION CHECKING METHOD (page 10)
 XLR/TRS JACK CHECKING METHOD (page 15)
 LINE OUT JACK CHECKING METHOD (page 19)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	A5000092A	CAP BOARD, COMPLETE		310	474106001	TERMINAL (BATT), P	
302	474733001	SCREW, +-Z 1.7X4.5		311	474106201	TERMINAL (BATT P-M), L	
303	474249001	PLATE (PWB), ML		312	472945401	INSULATING SHEET PWB	
304	X50000121	MAIN BOARD, COMPLETE (SV) (Including Flat cable HP (4P), Main plate (shield)) (See Note)		FFC2	191280211	CABLE, FLEXIBLE FLAT (12P)	
305	458031101	SHEET (USB B), ADHESIVE		FFC4	191280411	CABLE, FLEXIBLE FLAT (10P)	
306	474102202	CHASSIS (REAR)		WR3	191284511	FLAT CABLE HP (4P) (Included in complete MAIN board)	
307	474103601	INSULATOR (TERMINAL)		WR4	191284511	FLAT CABLE HP (4P) (Included in complete MAIN board)	
308	474106101	TERMINAL (BATT), M					
309	474106301	TERMINAL (BATT P-M), R					

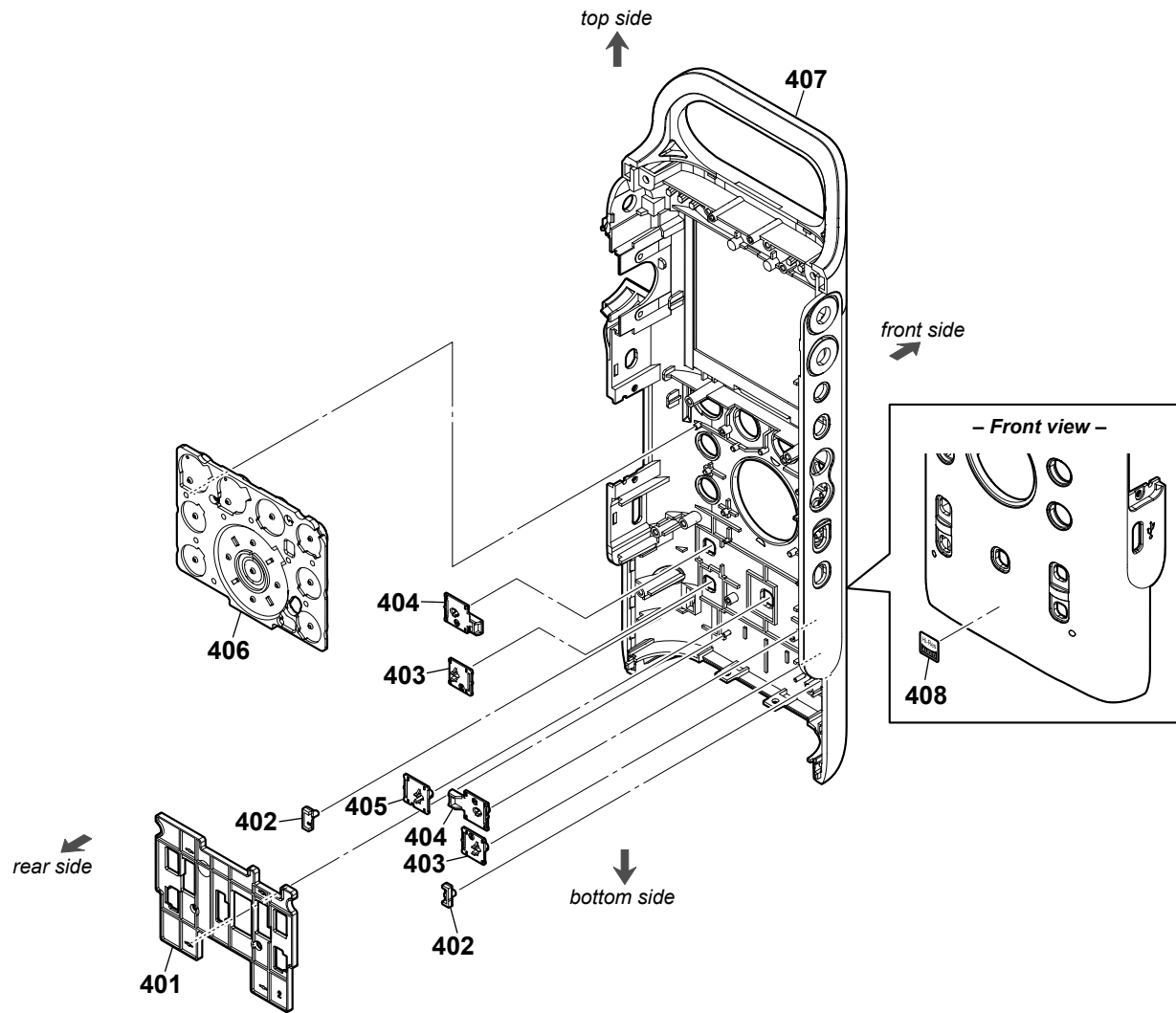
4-8. XLR ASSY, SW BOARD SECTION



Note: When the complete SW board (Ref. No. 354) or SLV XLR assy (Ref. No. SP1) are replaced, make sure to refer to "XLR/TRS JACK CHECKING METHOD" on page 15, and check the XLR/TRS jack.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
351	474733001	SCREW, +-Z 1.7X4.5		361	500166801	SPACER (XLR FRONT) (width 7.5 X thickness 1.65 mm)	
352	334899881	SCREW (M1.4) (L = 2.5 mm)		362	500166901	SPACER (XLR REAR) (width 6.0 X thickness 2.15 mm)	
353	474249101	PLATE (PWB), MS		FFC1	191280111	CABLE, FLEXIBLE FLAT (18P)	
354	A5000096A	SW BOARD, COMPLETE (See Note)		SP1	X50000091	SVX XLR ASSY (Including XLR board, Loudspeaker (1.6 cm), Holder (strap), Chassis (XLR), Plate, Cushion (SP), Mesh (SP), Adhesive sheet (SP), Sheet (SP), Screw) (See Note)	
355	474101501	KNOB (HOLD) (MIC ATT switch, HOLD switch)		WR1	191281111	SHIELD WIRE L (WHT/BLK)	
356	474103001	CHASSIS (SD CARD)		WR2	191281211	SHIELD WIRE R (RED/BLK)	
357	A2226559A	SW_R BOARD, COMPLETE					
358	474101201	BUTTON (LIGHT)					
359	474101401	KNOB (POWER)					
360	474101301	BUTTON (VOL) (+, -)					

4-9. FRONT CABINET SECTION

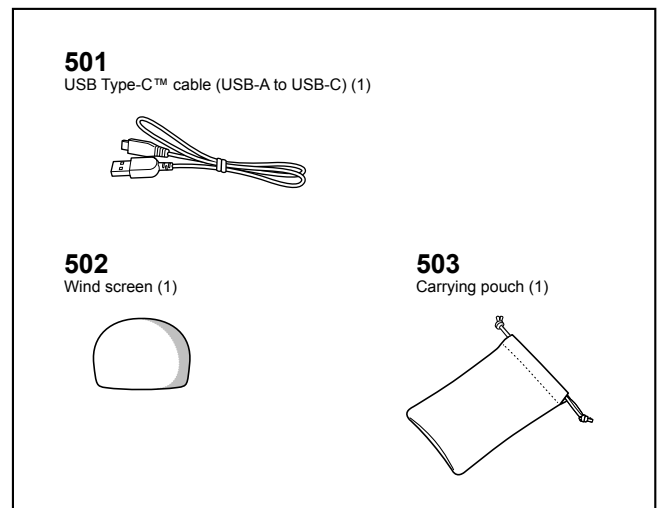


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
401	474102501	CHASSIS (KNOB), FRONT		407	X50000071	SVX CABINET FRONT ASSY (Including Front guard (MIC), Window (LCD), Light guide, Adhesive sheet, Side cushion (LCD), Screw)	
402	474100801	LIGHT GUIDE (48) (Phantom power indicator (L/R))		408	456967702	HI-RES LABEL	
403	474100401	KNOB (48) (Phantom power switch (L/R))					
404	474100501	KNOB (INPUT), LR (XLR/TRS INPUT LEVEL switch (L/R))					
405	474100301	KNOB (INPUT), MAIN (INPUT switch)					
406	474100101	BUTTON (FRONT) (T-MARK button, ■, ■■, ●, C1 button, • BACK/◀ HOME button, ▶, ▲ DPC, ⏮ A-B ▼, ◀◀, ▶▶, C2 button, OPTION button)					

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SECTION 5
ACCESSORIES

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
	474452811	MANUAL, INSTRUCTION (Operating Instructions) (ENGLISH)	
	474452821	MANUAL, INSTRUCTION (Operating Instructions) (KOREAN) (E)	
	474452832	MANUAL, INSTRUCTION (Operating Instructions) (TRADITIONAL CHINESE) (E)	
	474452841	MANUAL, INSTRUCTION (Operating Instructions) (FRENCH) (US, Canadian)	
	474452851	MANUAL, INSTRUCTION (Operating Instructions) (SIMPLIFIED CHINESE) (Chinese)	
	474453011	GUIDE, INSTALL (SFAS12) (SOUND FORGE Audio Studio 12 Installation Guide) (ENGLISH, KOREAN, TRADITIONAL CHINESE) (E)	
	474453021	GUIDE, INSTALL (SFAS12) (SOUND FORGE Audio Studio 12 Installation Guide) (ENGLISH, FRENCH) (US, Canadian)	
	474453031	GUIDE, INSTALL (SFAS12) (SOUND FORGE Audio Studio 12 Installation Guide) (SIMPLIFIED CHINESE, ENGLISH) (Chinese)	
501	191274331	CABLE, USB TYPE-C (USB Type-C™ cable (USB-A to USB-C))	
502	474424501	SCREEN (WIND) (Wind screen)	
503	474424601	POUCH, CARRYING	



REVISION HISTORY

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