

SONY®

EFP STYLE BUILDUP KIT

CBK-55BK

SERVICE MANUAL

1st Edition

警告

このマニュアルは、サービス専用です。
お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、人身事故につながる可能性があります。
危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

AVERTISSEMENT

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

注意

指定以外の電池に交換すると、破裂する危険があります。
必ず指定の電池に交換してください。
使用済みの電池は、国または地域の法令に従って処理してください。

FÖRSIKTIGHET!

Fara för explosion vid felaktigt placerat batteri.
Byt endast mot samma eller likvärdig typ av batteri, enligt tillverkarens rekommendationer.
När du kasserar batteriet ska du följa rådande lagar för regionen eller landet.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the manufacturer.
When you dispose of the battery, you must obey the law in the relative area or country.

PAS PÅ

Fare for eksplosion, hvis batteriet ikke udskiftes korrekt.
Udskift kun med et batteri af samme eller tilsvarende type, som er anbefalet af fabrikanten.
Når du bortskaffer batteriet, skal du følge lovgivningen i det pågældende område eller land.

ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.
Lorsque vous mettez la batterie au rebut, vous devez respecter la législation en vigueur dans le pays ou la région où vous vous trouvez.

HUOMIO

Räjähdysvaara, jos akku vaihdetaan virheellisesti.
Vaihda vain samanlaiseen tai vastaavantyyppiseen, valmistajan suosittelemaan akkuun.
Noudata akun hävittämisessä oman maasi tai alueesi lakeja.

VORSICHT

Explosionsgefahr bei Verwendung falscher Batterien.
Batterien nur durch den vom Hersteller empfohlenen oder einen gleichwertigen Typ ersetzen.
Wenn Sie die Batterie entsorgen, müssen Sie die Gesetze der jeweiligen Region und des jeweiligen Landes befolgen.

FORSIKTIG

Eksplosjonsfare hvis feil type batteri settes i.
Bytt ut kun med samme type eller tilsvarende anbefalt av produsenten.
Kasser batteriet i henhold til gjeldende avfallsregler.

注意

如果更换的电池不正确，就会有爆炸的危险。
只更换同一类型或制造商推荐的电池型号。
处理电池时，必须遵守相关地区或国家的法律。

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Manual Structure

Purpose of this manual

This manual describes the information items that premise the service based on the block parts assuming use of system and service engineers.

Schematic diagram, board layout and electrical parts list are not contained in this manual.

Related manuals

The following manuals are available for this model.

If any of these manuals is required, please contact your local Sony Sales Office/Service Center.

- Operation Manual CD-ROM (supplied with the unit)
This manual is necessary for application and operation of the unit.
- Factory Service Manual (available on request)
This manual describes the information items that premise the service based on the components parts.

Section 1

Service Overview

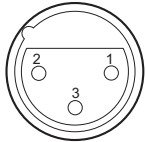
1-1. Connectors and Cables

1-1-1. Connector Input/Output Signals

Input Signals

AUDIO IN CH-1, CH-2

XLR 3-pin, Female



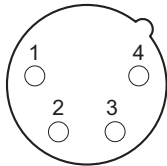
- External View -

(0 dBu = 0.775 V rms)

No.	Signal	I/O	Specifications
1	MIC/LINE (G)	—	-70 dBu/-60 dBu/-50 dBu/ -40 dBu/-30 dBu/ -3 dBu/0 dBu/+4 dBu, High impedance, Balanced
2	MIC/LINE (X)	IN	
3	MIC/LINE (Y)	IN	

DC IN

XLR 4-pin, Male

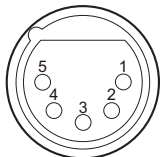


- External View -

No.	Signal	I/O	Specifications
1	GND	—	GND for DC (+)
2	—	—	No connection
3	—	—	No connection
4	DC IN (+)	IN	+11 to 17 V dc input

MIC IN

XLR 5-pin, Female



- External View -

(0 dBu = 0.775 V rms)

No.	Signal	I/O	Specifications
1	MIC IN (G)	—	- 50 dBu, High impedance, Balanced
2	MIC1 IN (X)	IN	
3	MIC1 IN (Y)	IN	
4	MIC2 IN (X)	IN	
5	MIC2 IN (Y)	IN	

Output Signals

HEADPHONE

-22 dBu (Volume: Center, reference level output 32 ohms loaded)

DC OUT 12 V

4-pin, Female

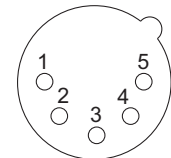


- External View -

No.	Signal	I/O	Specification
1	UNREG GND	—	GND for UNREG
2	REC TALLY	OUT	Open Collector output (Max. 50 mA) Low: REC
3	REC TRIGGER	IN	Open or +5 V dc: Normal GND: Active (REC)
4	UNREG +12 V OUT	OUT	+11 to 17 V dc output

AUDIO OUT

XLR, 5-pin, Male



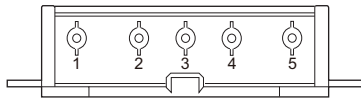
- External View -
(0 dBu = 0.775 V rms)

No.	Signal	I/O	Specifications
1	ANALOG GND	—	—
2	AUDIO CH-1 (X)	OUT	0 dBu
3	AUDIO CH-1 (Y)	OUT	
4	AUDIO CH-2 (X)	OUT	
5	AUDIO CH-2 (Y)	OUT	

Input/Output Signals

BATT I/F

5-pin, Male

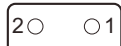


- External View -

No.	Signal	I/O	Specifications
1	BATT IN (-)	IN	GND for BATT IN
2	BATT ID	IN	Battery ID signal input
3	BATT SDA	IN/OUT	Battery serial data signal input/output
4	BATT SCL	OUT	Battery serial data clock signal output
5	BATT IN (+)	IN	+11 to 17 V dc input

LIGHT

2-pin, Female

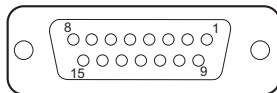


- External View -

No.	Signal	I/O	Specification
1	LIGHT +12 V	OUT	50 W MAX
2	GND	—	

WIRELESS RECEIVER

D-sub, 15-pin, Female



- External View -

No.	Signal	I/O	Specifications
1	GND	IN	GND for AUDIO IN
2	AUDIO CH1 IN	IN	WIRELESS RECEIVER AUDIO CH1 IN
3	AUDIO CH2 IN	IN	WIRELESS RECEIVER AUDIO CH2 IN
4	DC + 7 V OUT	OUT	+7 V
5	GND	—	GND
6	SCLK	OUT	64 FS
7	WRR855 DET	I/O	
8	GND	—	GND
9	WRR CLK	IN	WRR SERIAL CLOCK
10	CS	OUT	WRR SELECT
11	WRR DI	OUT	WRR SERIAL IN
12	WRR DO	IN	WRR SERIAL OUT
13	LRCK	OUT	FS
14	DATA 1/2	IN	AUDIO DATA 1/2 IN
15	DATA 3/4	IN	AUDIO DATA 3/4 IN

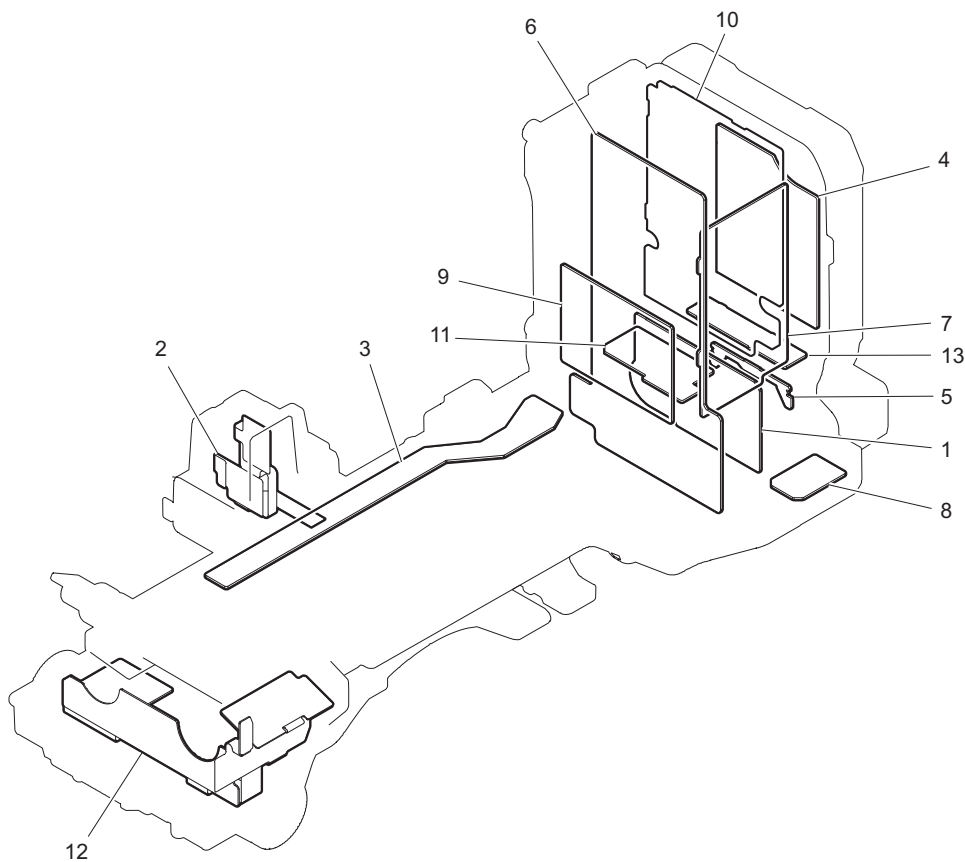
1-1-2. Connectors/Cables

Use the following connectors/cables or equivalent when connecting cables to the connectors of this unit.

Connector Name	Connection Connectors/Cables	Part No.
AUDIO IN CH-1, CH-2	XLR 3P, Male	1-508-084-00
AUDIO OUT	Audio cable (XLR 5P-XLR 3P, 2 m)	
DC IN	XLR 4P, Female	1-508-362-00
DC OUT 12 V	Round Type 4P, Male	1-566-425-11
HEADPHONE	Stereo Mini plug	commercially available
LIGHT	Power tap (OE) Made by ANTONBAUER Inc., 33710 or equivalent	
MIC IN	XLR 5P, Male	1-508-370-11

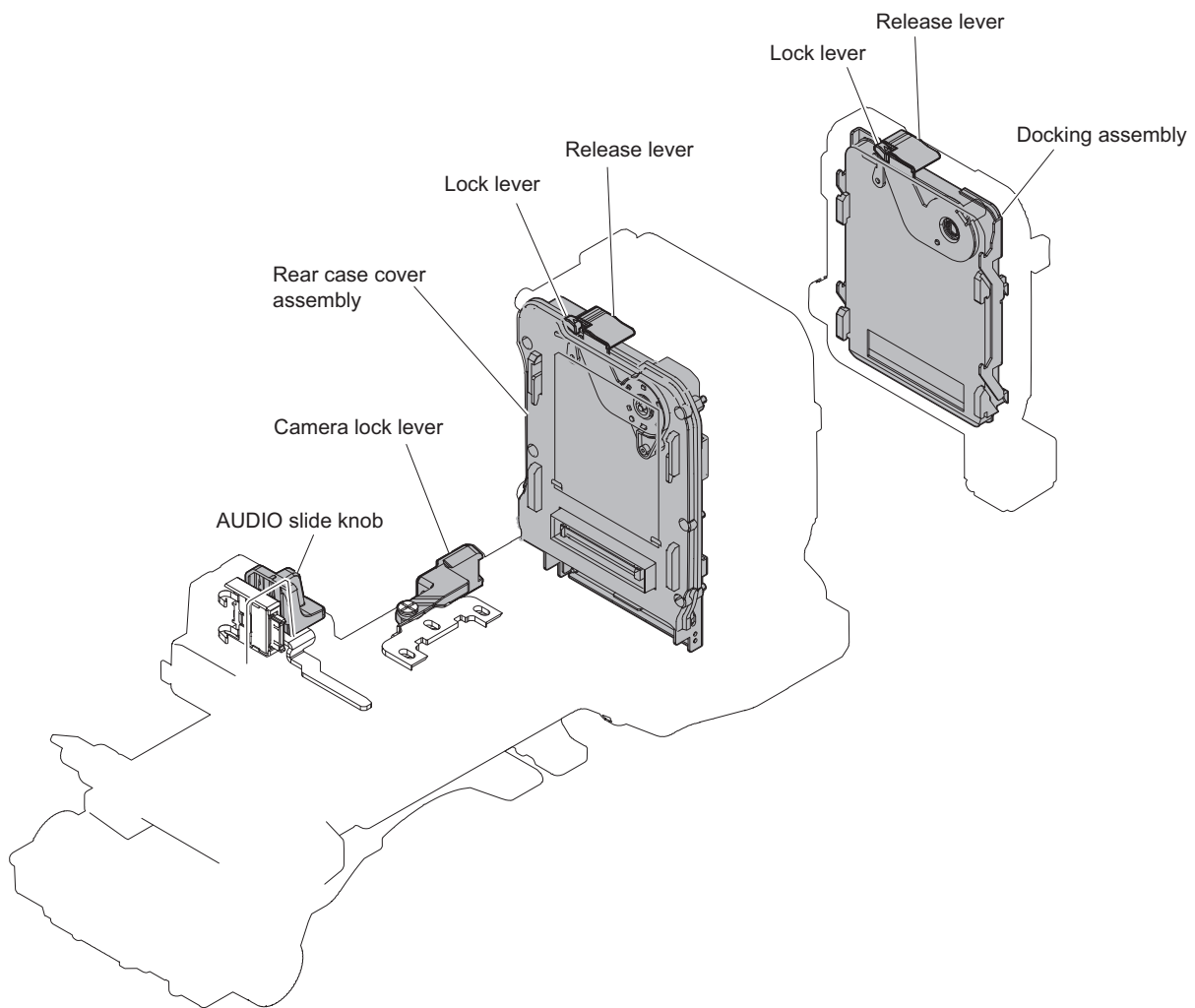
1-2. Location of Main Parts

1-2-1. Location of Boards and Description of Functions



Location No.	Board Name	Circuit Configuration
1	AXM-56	AUDIO SIGNAL IN/OUT BUFFER
2	CN-3758	MIC IN, AES/EBU OUTPUT
3	CN-3759	THE TERMINAL BOARD BETWEEN FRONT SWITCH BOARD AND REAR BLOCK.
4	DC-178	BATTERY ADAPTOR
5	DET-61	REAR XLR CONNECTOR DETECT
6	DIF-238	AUDIO MAIN PROCESS, SYSTEM CONTROL
7	FP-240	SWITCH
8	HP-173	HEADPHONES OUTPUT
9	IF-1276	INTERFACE WITH PMW-F55/F5
10	RE-329	POWER SUPPLY, AXS-R5 INTERFACE
11	RX-139	WRR AUDIO INPUT
12	SW-1656	FRONT PANEL SWITCHES
13	SW-1659	MICROPHONE POWER

1-2-2. Location of Main Mechanical Parts



1-3. Circuit Description

DIF-238 board

This is the main board of the unit.

This board equips analog audio circuit, audio FPGA (IC801), audio DSP (IC1000) and MAIN control microcomputer (IC100).

The MAIN control microcomputer (IC100) performs communication with PMW-F55/F5 and control of the device in the unit. The audio process that is main process in the unit is performed at audio FPGA (IC801) and audio DSP (IC1000)

FP-240 board

This is the switch-related board of audio operation section.

The following audio system, input select switches and volumes for level adjusting are equipped.

- AUDIO SELECT (S01, S06, S07)
- AUDIO IN SELECT (S02-S05)
- MONITOR (S08, S09)
- LEVEL (RV01-RV04)
- AUDIO MONITOR (RV05)

Sub-microcomputer (IC01) is equipped, It performs acquisition and information of the MAIN microcomputer and the switches.

SW-1656 board

This is the switch-related board of operation section (front/side).

The following operating section (front/side) switches are equipped.

Front:

- REC START (S003)
- SHUTTER (S002)
- AUTO W/B BAL (S001)
- MIC LEVEL (RV001)
- MENU KNOB (EN100)

Side:

- GAIN/EI (S102)
- MENU ON/OFF (S100)
- ASSIGN 6/7/8 (S152/153/154)
- ASSIGN 5 (S103)

Sub-microcomputer (IC001) is equipped, it performs acquisition and information of the MAIN microcomputer and the switches.

SW-1659 board

The power ON/OFF switch (+48 V/OFF: S101/S102) for audio terminal of the terminal section (rear) is equipped.

CN-3758 board

The MIC input (MIC IN: CN002) XLR connector on the front and the audio output (AES/EBU: CN003) connector that returns the processed audio signal to the PMW-F55/F5 are equipped.

IF-1276 board

This is the EXT_IF interface board with the PMW-F55/F5.

The EXT_IF144 pin connector that communicates with the PMW-F55/F5 is equipped.

The GOLGO signal for connection to the AXS-R5 is interfaced. Fine-wire coaxial connector for the bypass on the rear is equipped.

CN-3759 board

This is the terminal board between SW-1656 board on the front and CN-3758 board on the rear.

AXM-56 board

Audio input (AUDIO IN: CN101/CN102) and the XLR connector of analog audio signal output (AUDIO OUT: CN109) for EE on the rear are equipped.

DET-61 board

The detection sensor for XLR connection to the AXM-56 board is equipped.

HP-173 board

The HEADPHONE output connector (J1) is equipped.

RE-329 board

This is the power supply board for the unit. The power from battery adaptor supplies to each circuit boards via the DC/DC circuit.

The EXT_IF connector for connection to the AXS-R5 on the rear is equipped, and the signal from IF-1276 board is output to the AXS-R5.

RX-139 board

The D-sub connector for WRR receiver connection (WIRELESS MIC: CN1) is equipped.

DC-178 board

This is the board for battery adaptor.

1-4. Circuit Protection Parts

1-4-1. Replacing Fuses

Note

Fuses are essential parts for safe operation. Be sure to use the parts specified in this manual. Replacing a fuse with an unspecified one may cause fire or electric shock.

This unit is equipped with fuses. The fuses blow if overcurrent flows in the unit due to an abnormality. In that case, turn off the power of the unit, inspect inside of the unit, and then remove the cause of the overcurrent. After that, replace the defective parts.

Board Name	Ref. No.	Name	Part No.
DC-178	F101	Fuse 15 A/65 V	△1-576-566-21
RE-329	F101	Fuse 15 A/65 V	△1-576-566-21

1-4-2. Circuit Protection Element

This unit is equipped with positive-characteristic thermistors (power thermistors) as circuit protection elements.

The positive-characteristic thermistor limits the electric current flowing through the circuit as the internal resistance increases when an excessive current flows or when the ambient temperature increases. If the positive-characteristic thermistor works, turn off the main power of the unit and inspect the internal circuit of the unit.

After the cause of the fault is eliminated and the positive-characteristic thermistor is cooled down, turn on the main power again. The unit works normally. It takes about one minute to cool down the positive-characteristic thermistor after the main power is turned off.

Board Name	Ref. No.	Part No.	Holding current
DC-178	TH101	△1-771-845-21	0.20 A/20 °C
RE-329	TH602	△1-771-845-21	0.20 A/20 °C

1-5. Service Tools

Part No.	Name	Use
J-6323-530-A	Stopper washer insertion tool	Inserting stopper washers
J-6325-380-A	Torque screwdriver bit (M2), (M2.6)	Tightening screws
J-6323-430-A	Torque screwdriver's bit (M3)	Tightening screws
J-6325-400-A	Torque screwdriver (3 kg•cm) (0.3 N•m)	Tightening screws (for M2)
J-6252-510-A	Torque screwdriver (6 kg•cm) (0.6 N•m)	Tightening screws (For M2.6)
J-6325-520-A	Torque screwdriver (12 kg•cm) (1.2 N•m)	Tightening screws (For M3)
7-600-002-52	ThreeBond (TB1401B)	For preventing screws from being loosened
Commercially available	Nut driver (size: 12 mm)	Tightening sleeve (ENC2)

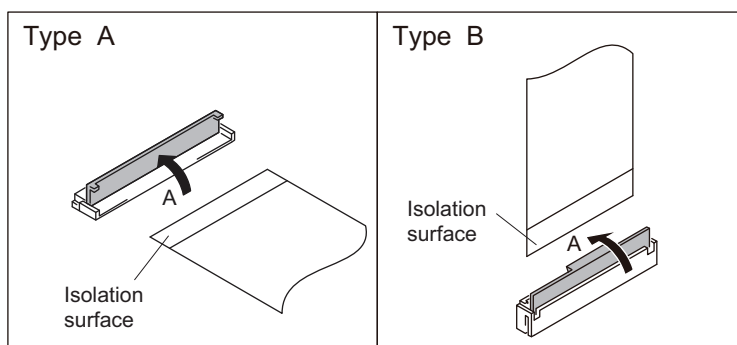
1-6. Flexible Card Wire and Fine-Wire Coaxial Cable

1-6-1. Disconnecting/Connecting Flexible Card Wire

Note

- Be very careful not to fold flexible card wires. Life of flexible card wire will be significantly shortened if it is folded.
- Each flexible card wire has conductive side and insulated side. If the flexible card wire is connected in the wrong orientation of the conductive side and the insulated side, the circuit will not function.
- Insert the flexible card wire straight.
- Check that the conductive side of the flexible card wire is not contaminated.

Type A to B



Disconnecting

1. Turn off the power.
2. Slide or lift up the portion A in the direction of the arrow to unlock and pull out the flexible card wire.

Connecting

1. Slide or lift up the portion A in the direction of the arrow and securely insert the flexible card wire into the deep end of the connector.
2. Return the portion A to its original position and lock the connector.

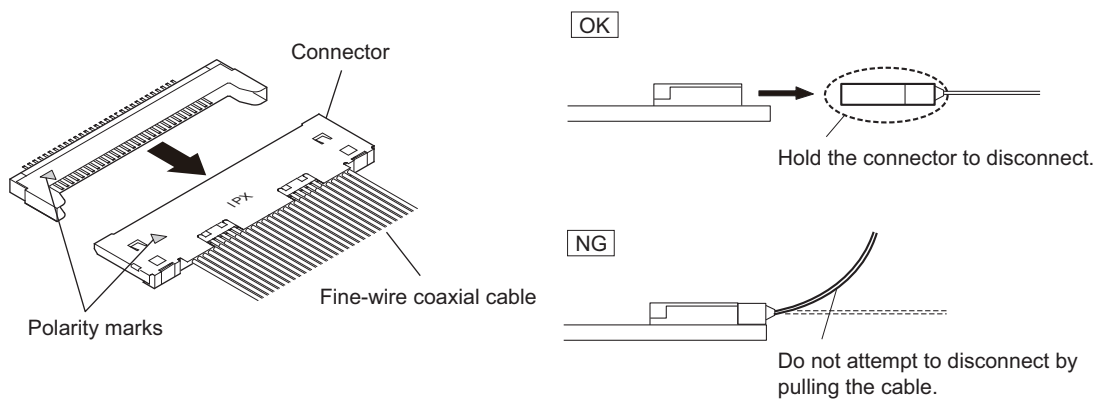
1-6-2. Disconnecting/Connecting Fine-Wire Coaxial Cable

Notes

- Be very careful when handling the fine-wire coaxial cable so that fine wires are not disconnected.
- When disconnecting the fine-wire coaxial cable, be sure to hold the connector. Do not attempt to pull the cable.
- Check that the contact surface of the fine-wire coaxial cable connector is free from dirt or dust.

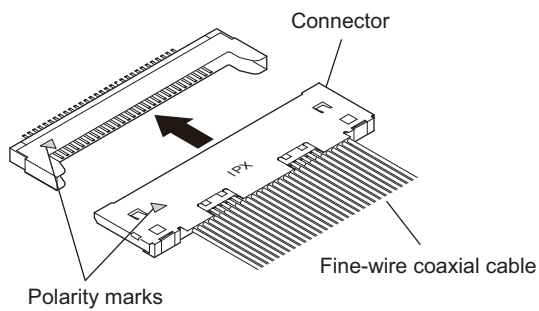
Type A

Disconnecting



1. Hold both sides of the fine-wire coaxial cable connector, and pull the connector straight to disconnect it.

Connecting



Note

Firmly insert the connector straight as far as it will go.

1. Insert the connector straight matching the polarity marks.

Section 2

Replacement of Main Parts

2-1. General Information for Parts Replacement

2-1-1. Basic Knowledge

Flexible card wire

When connecting flexible card wires, connect them firmly referring to [“1-6-1. Disconnecting/Connecting Flexible Card Wire”](#).

Fine-wire coaxial cable

When connecting fine-wire coaxial cables, connect them firmly referring to [“1-6-2. Disconnecting/Connecting Fine-Wire Coaxial Cable”](#).

2-1-2. Tightening Torque

When tightening screws used in this unit, be sure to use a torque driver and tighten screws to the specified tightening torque.

Tightening torque

M2: $0.18 \pm 0.02 \text{ N}\cdot\text{m}$

M2.6: $0.53 \pm 0.07 \text{ N}\cdot\text{m}$

M3: $0.8 \pm 0.12 \text{ N}\cdot\text{m}$

Tip

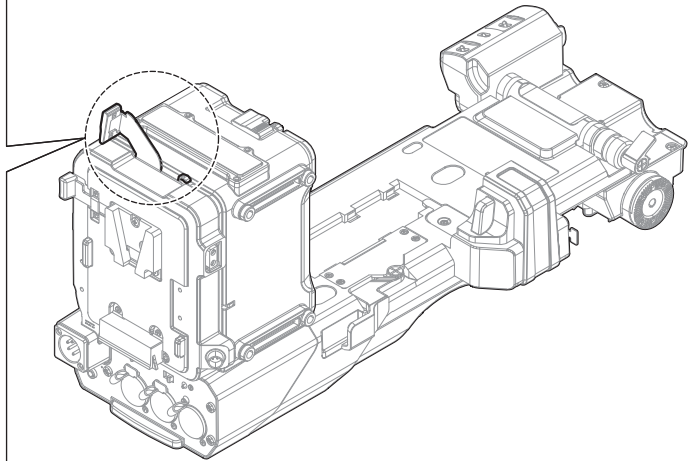
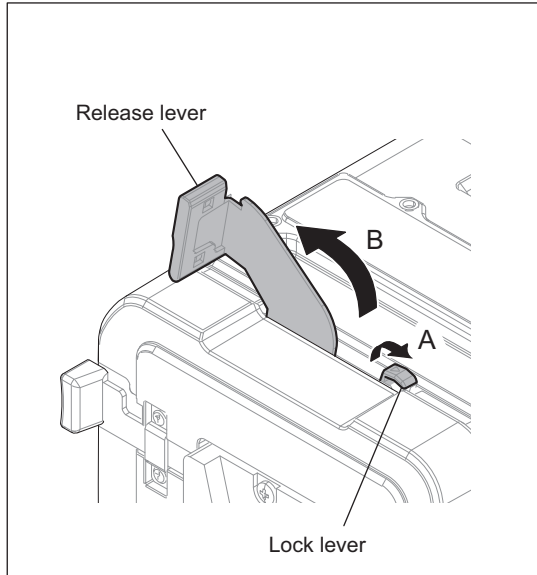
When using the torque driver with the notation of $\text{cN}\cdot\text{m}$, interpret it as follows.

Example: $0.8 \text{ N}\cdot\text{m} = 80 \text{ cN}\cdot\text{m}$

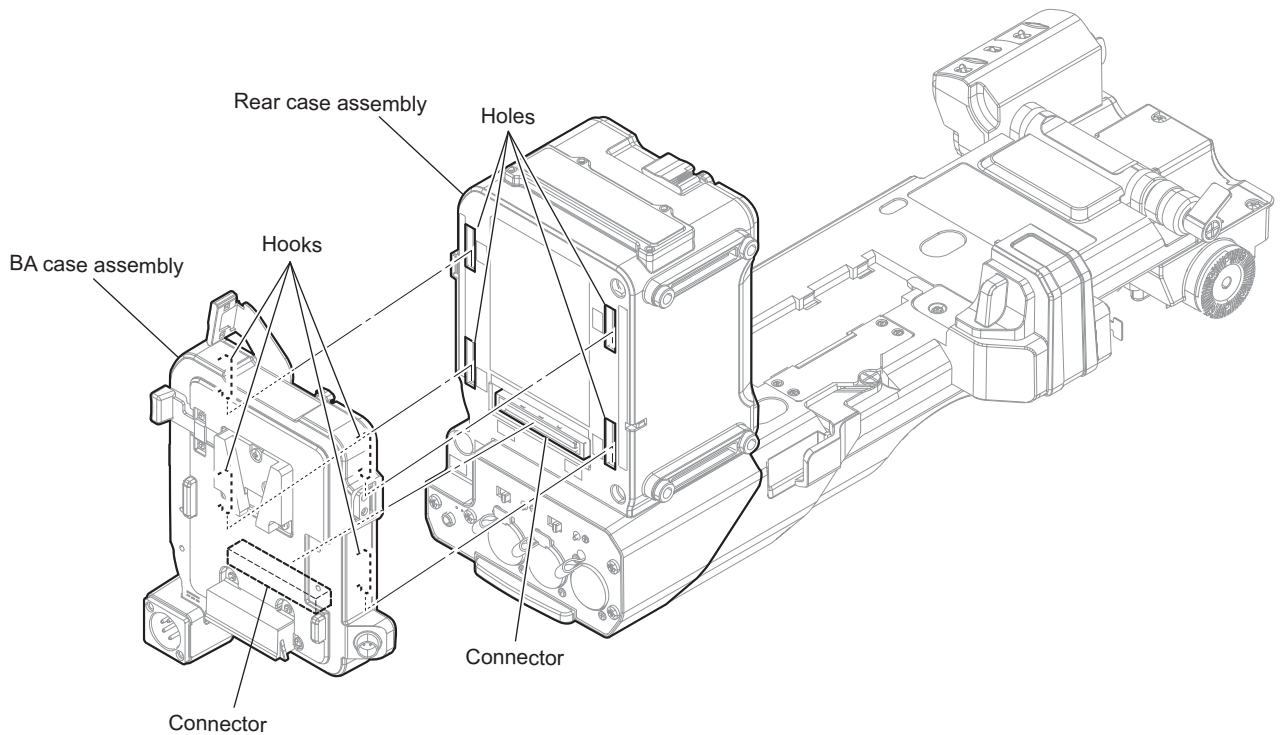
2-2. BA Case Assembly

Procedure

1. Open the lock lever in the direction of the arrow A, and turn the release lever in the direction of the arrow B.



2. Release the four hooks from the four holes of the rear case assembly, and remove the BA case assembly from the rear case assembly.



3. Install the removed parts by reversing the steps of removal.

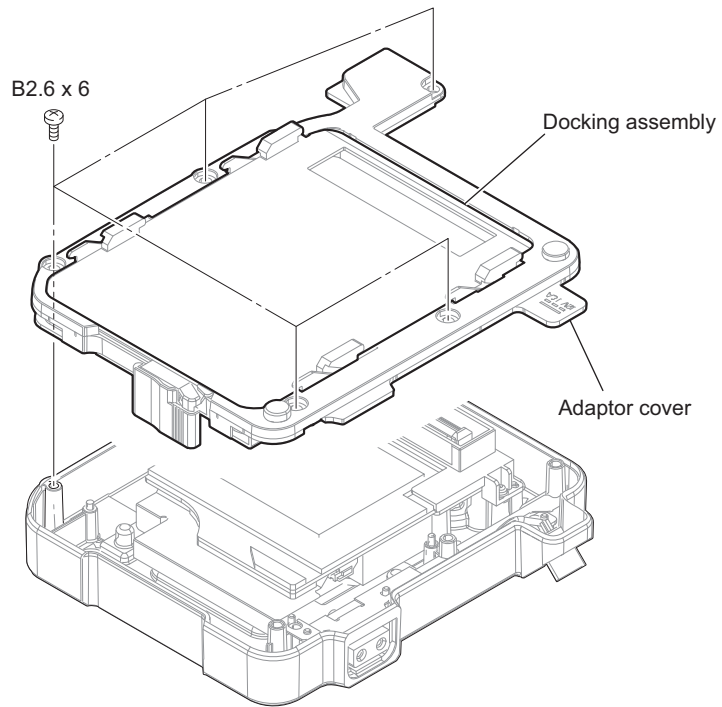
2-3. DC-178 Board

Preparation

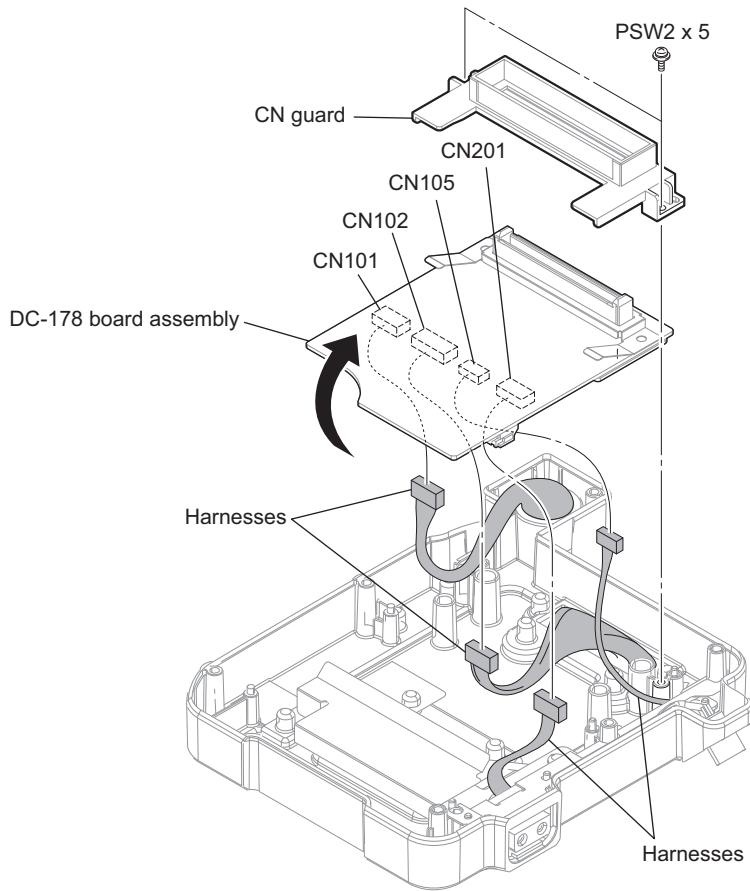
1. Remove the BA case assembly. (Refer to “2-2. BA Case Assembly”)

Procedure

1. Remove the five screws and detach the adaptor cover and docking cover assembly.

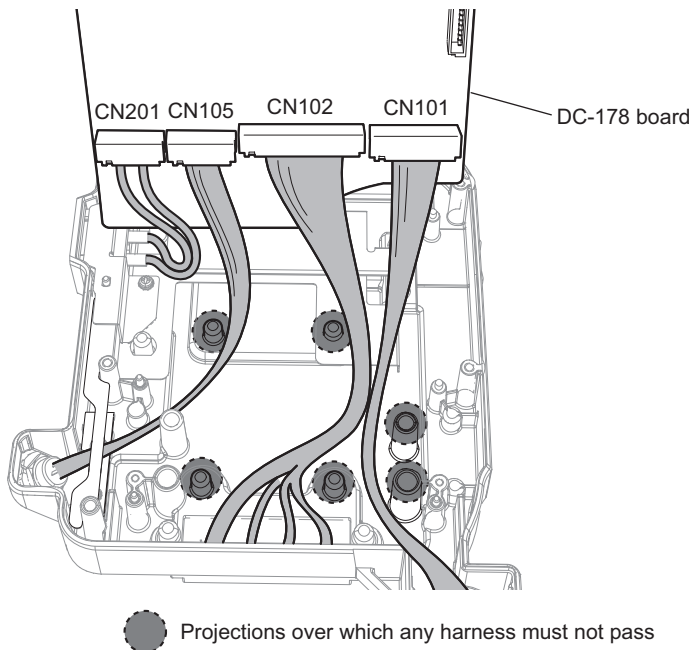


2. Remove the DC-178 board assembly.
 - 1) Remove the two screws and detach the CN guard.
 - 2) Open the DC-178 board assembly in the direction of the arrow, and disconnect the four harnesses from the four connectors (CN101, CN102, CN105, CN201) on the DC-178 board.

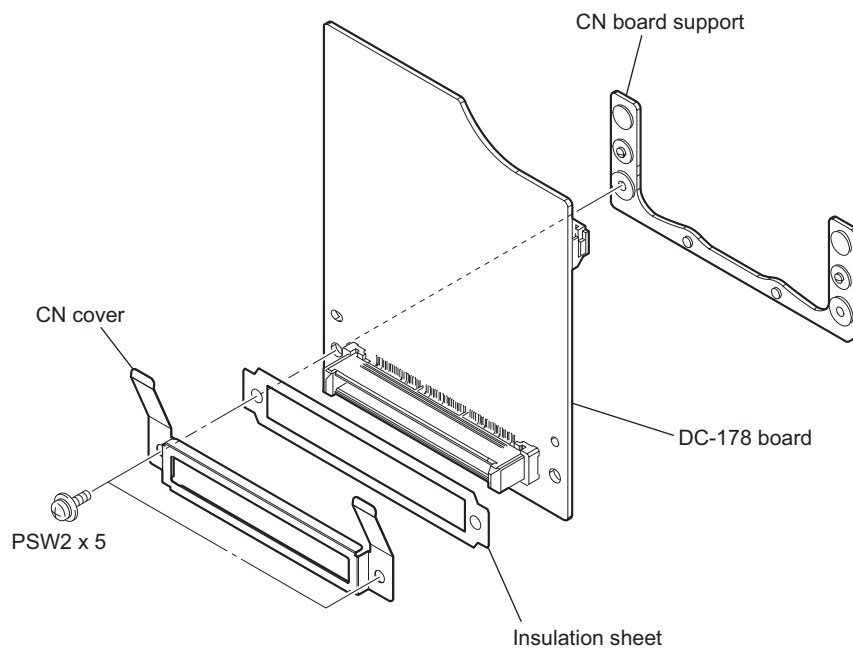


Note

When installing the DC-178 board, arrange the harnesses so that they do not pass over the projections shown below.



3. Remove the two screws and detach the CN cover, insulation sheet, and CN board support from the DC-178 board.



4. Install the removed parts by reversing the steps of removal.

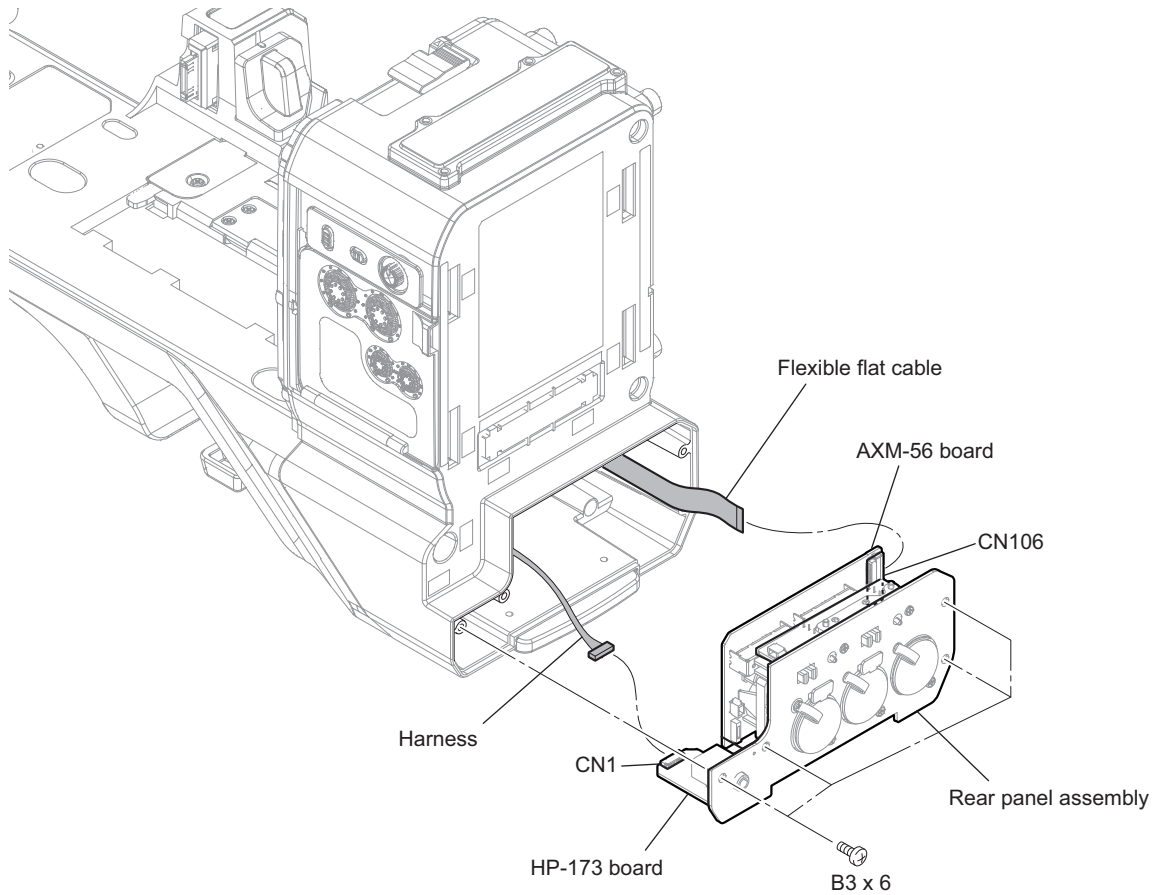
2-4. Rear Panel Assembly

Preparation

1. Remove the BA case assembly. (Refer to “2-2. BA Case Assembly”)

Procedure

1. Remove the rear panel assembly.
 - 1) Remove the four screws and pull out the rear panel assembly.
 - 2) Disconnect the flexible flat cable from the connector (CN106) on the AXM-56 board.
 - 3) Disconnect the harness from the connector (CN1) on the HP-173 board.



2. Install the removed parts by reversing the steps of removal.

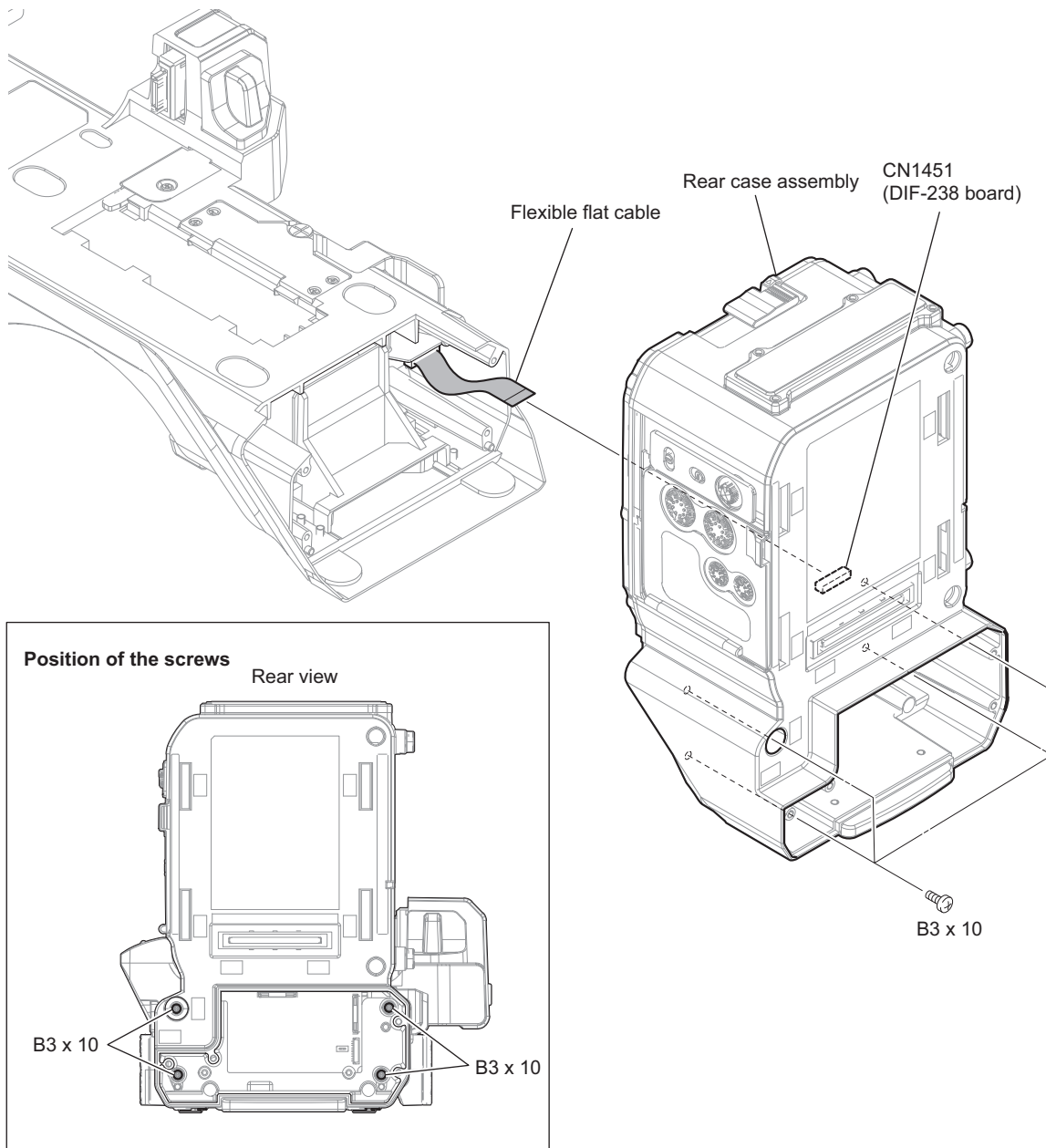
2-5. Rear Case Assembly

Preparation

1. Remove the BA case assembly. (Refer to “2-2. BA Case Assembly”)
2. Remove the rear panel assembly. (Refer to “2-4. Rear Panel Assembly”)

Procedure

1. Remove the rear case assembly.
 - 1) Remove the four screws and pull out the rear case assembly.
 - 2) Disconnect the flexible flat cable from the connector (CN1451) on the DIF-238 board.



2. Install the removed parts by reversing the steps of removal.

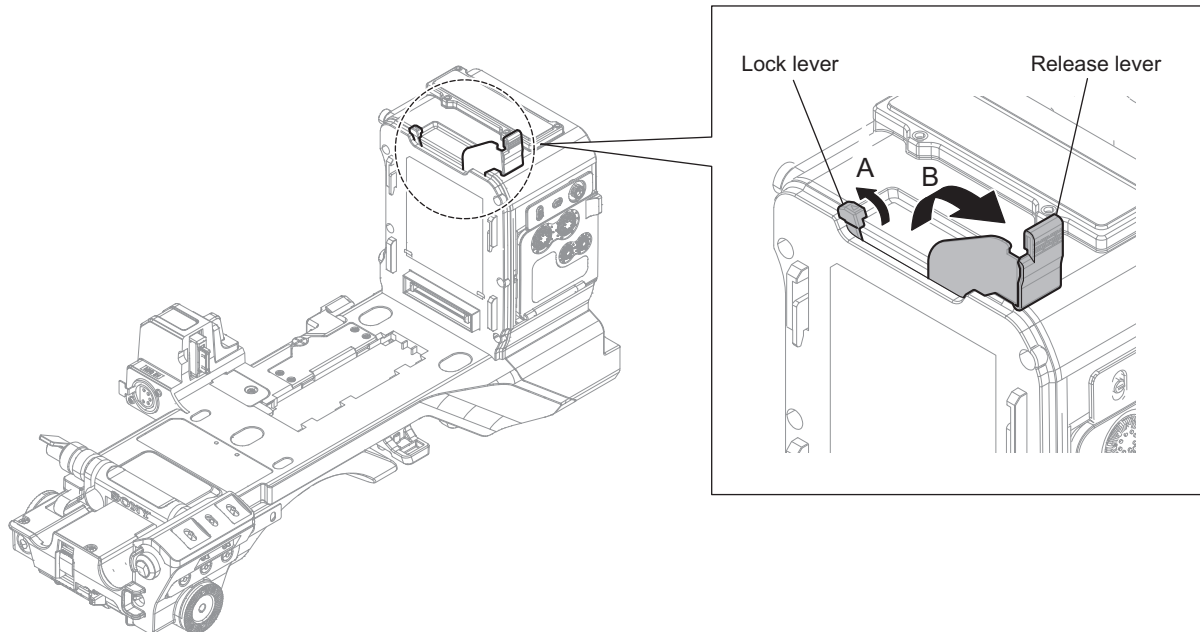
2-6. Rear Case Cover Assembly

Preparation

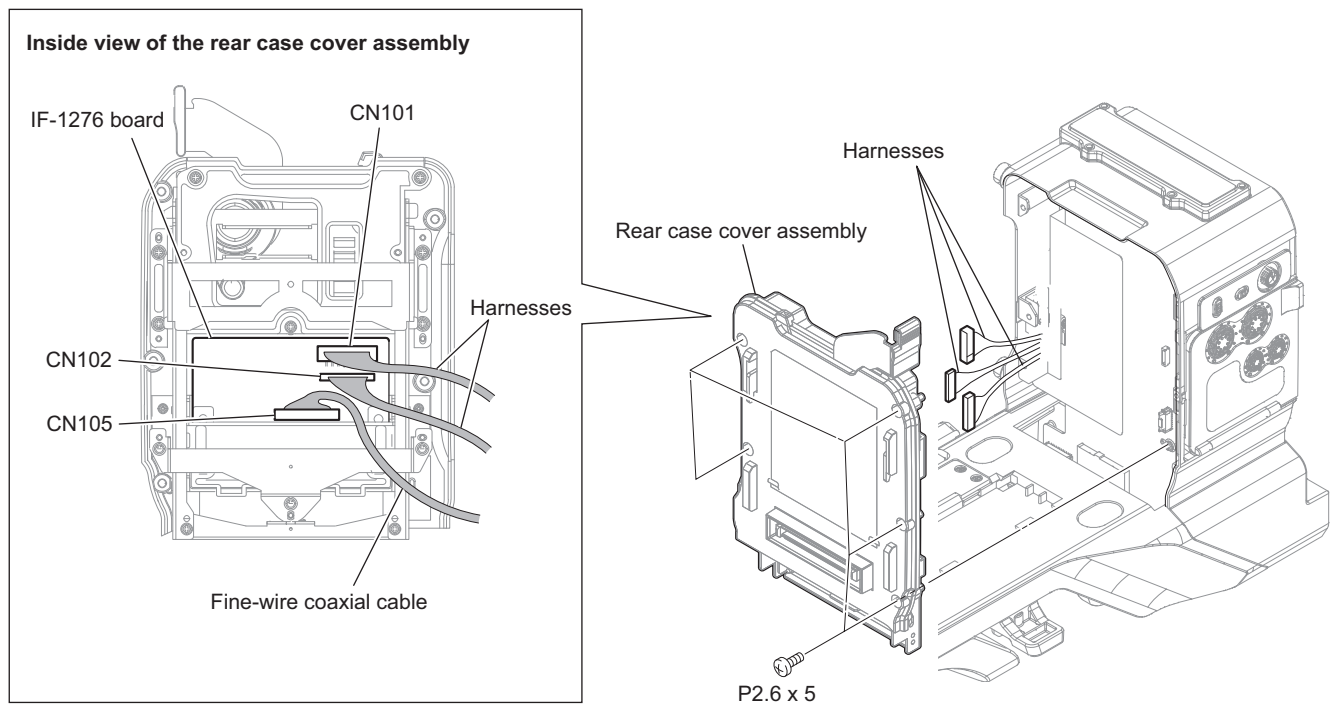
1. Remove the BA case assembly. (Refer to “2-2. BA Case Assembly”)

Procedure

1. Open the lock lever in the direction of the arrow A, and turn the release lever in the direction of the arrow B.



2. Remove the rear case cover assembly.
 - 1) Remove the five screws and pull out the rear case cover assembly.
 - 2) Disconnect the two harnesses from the two connectors (CN101, CN102) on the IF-1276 board.
 - 3) Disconnect the fine-wire coaxial cable from the connector (CN105) on the IF-1276 board.



3. Install the removed parts by reversing the steps of removal.

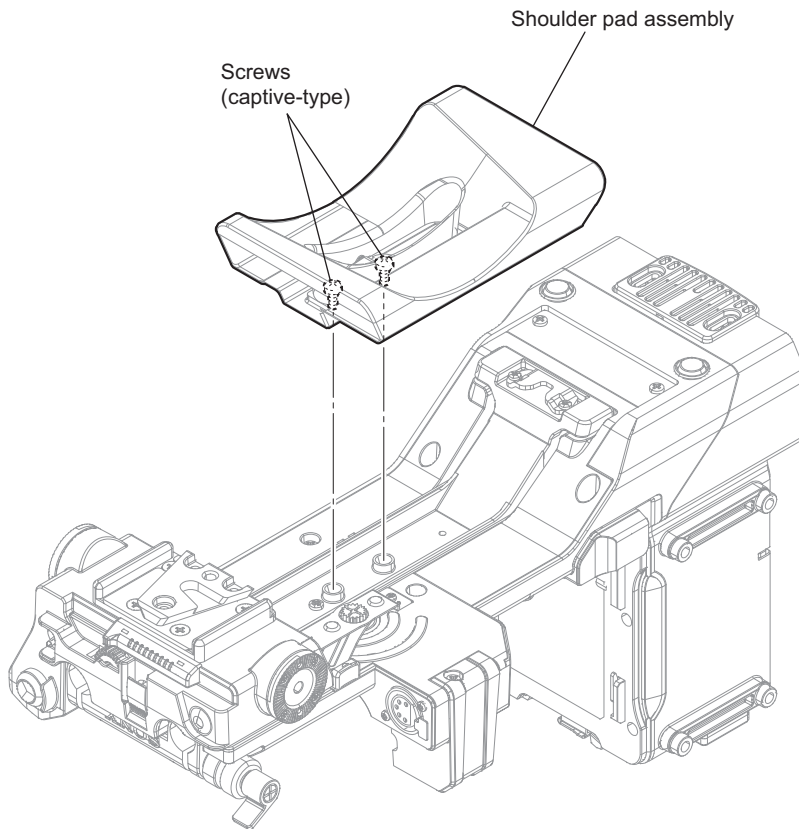
2-7. Slide Base Assembly

Preparation

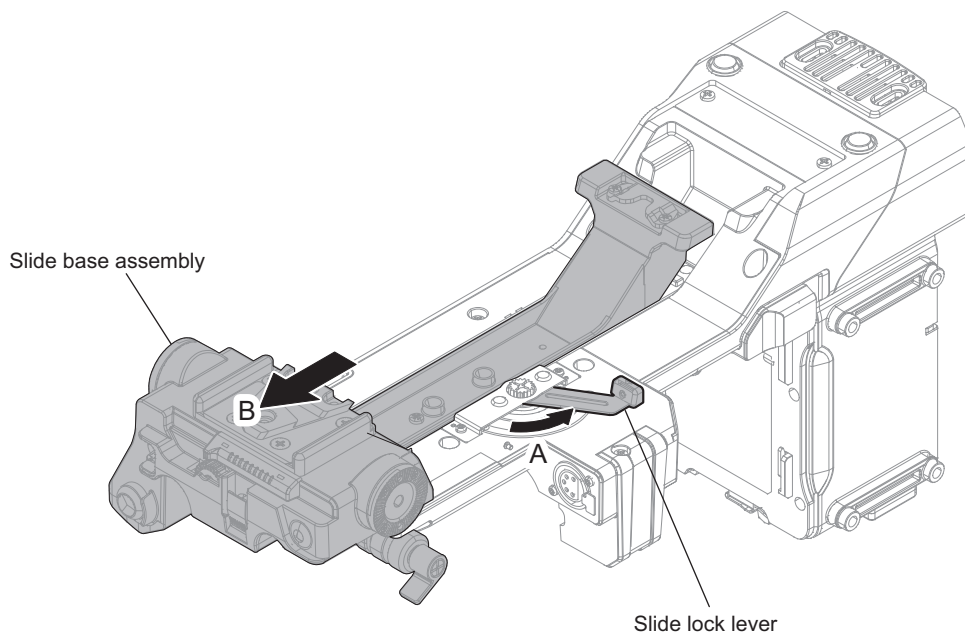
1. Remove the BA case assembly. (Refer to “2-2. BA Case Assembly”)

Procedure

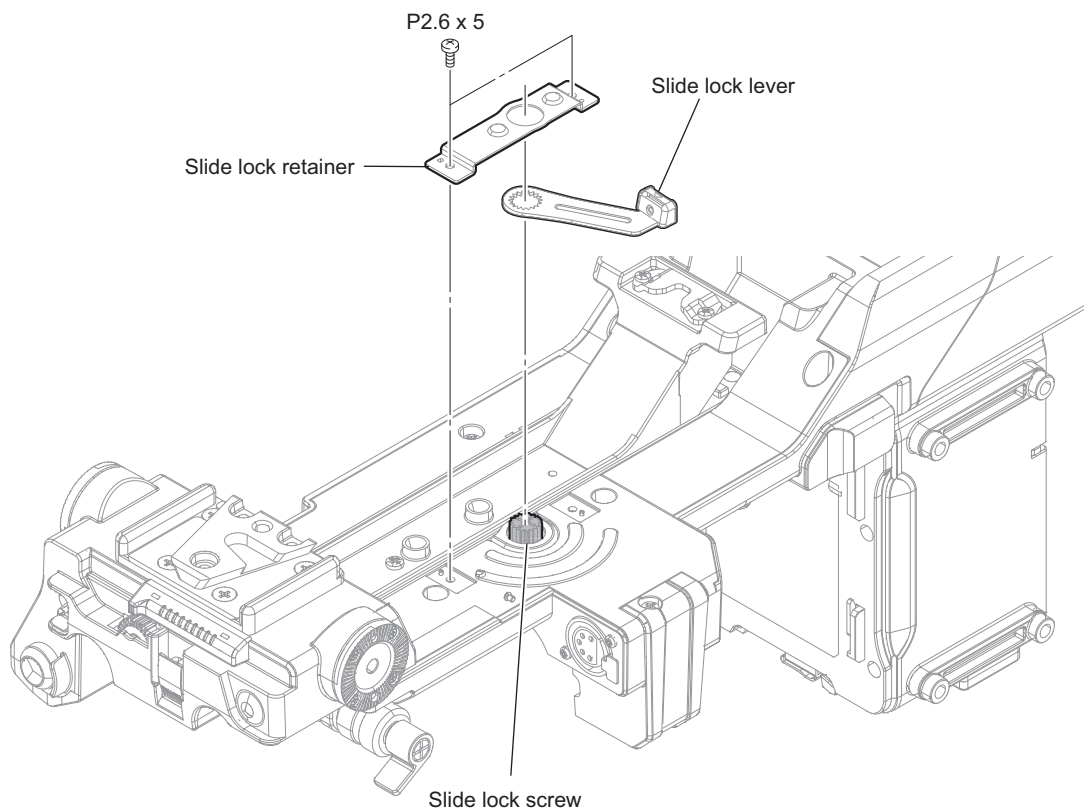
1. Loosen the two screws (captive-type) and remove the shoulder pad assembly.



2. Turn the slide lock lever in the direction of the arrow A, and slide the slide base assembly in the direction of the arrow B as far as it will go.



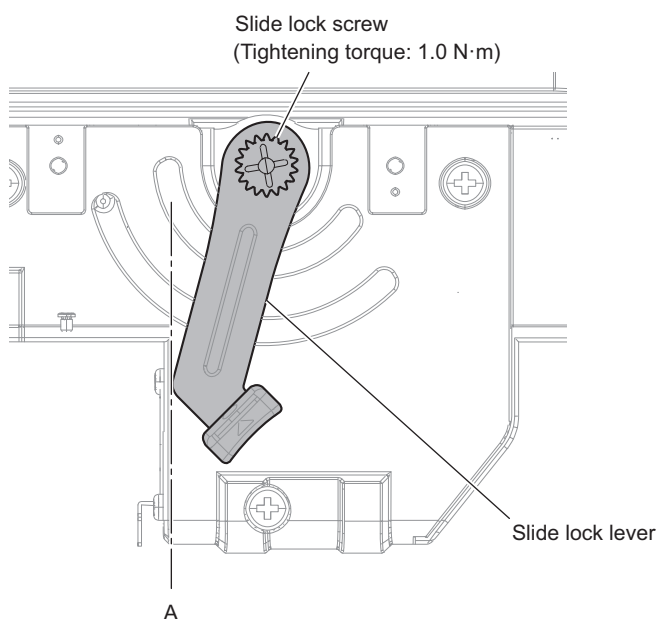
3. Remove the slide lock retainer and the slide lock lever.
 - 1) Remove the two screws and detach the slide lock retainer.
 - 2) Remove the slide lock lever from the slide lock screw.



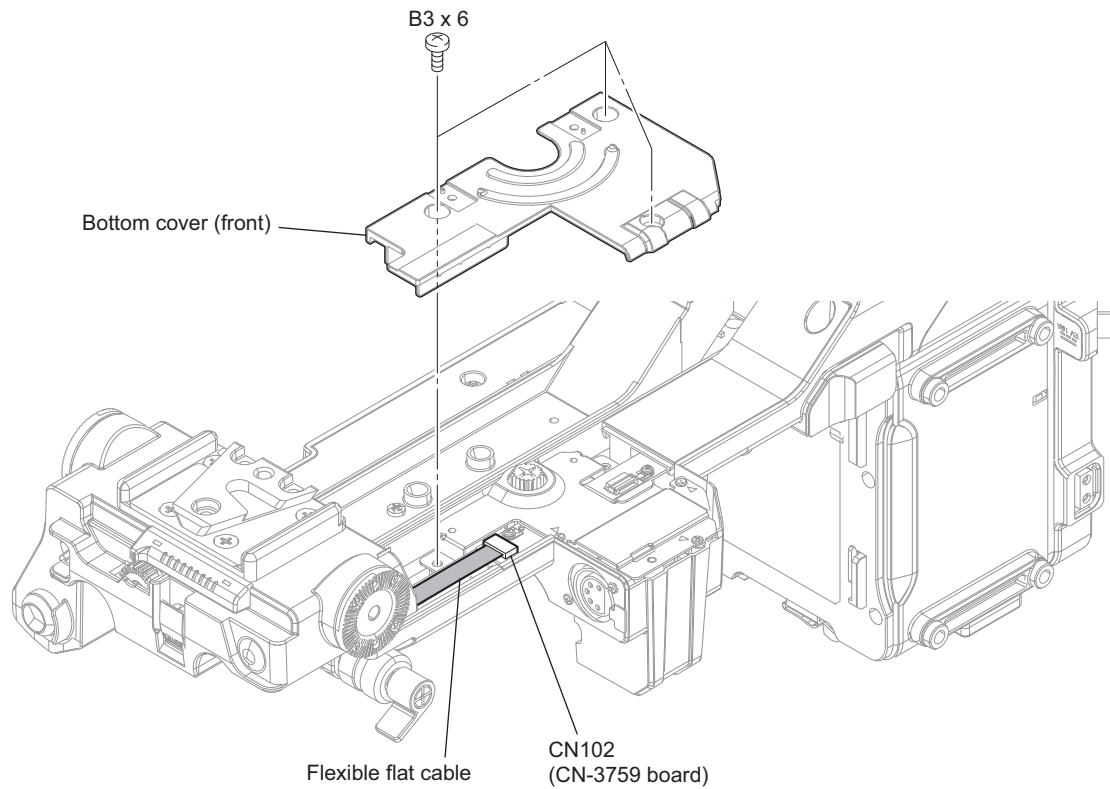
Note

When installing the slide lock lever, observe the following instructions.

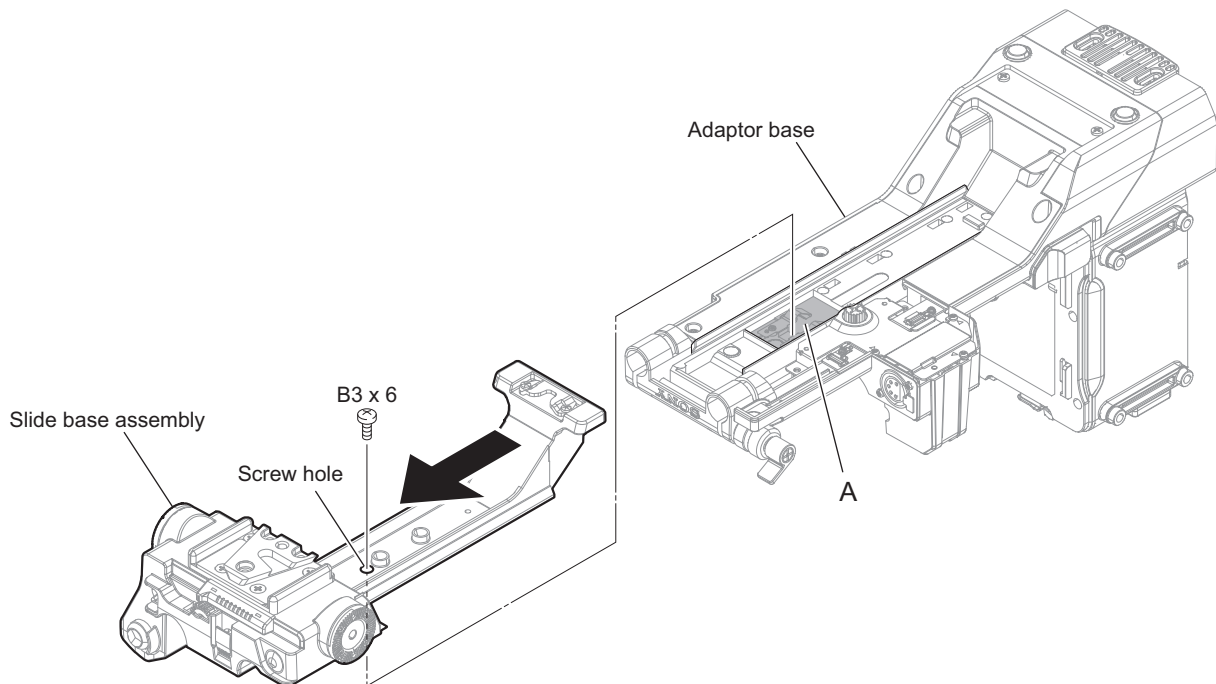
- Tighten the slide lock screw to a tightening torque of 1.0 N·m.
- Set the slide lock lever at position A as shown below.
- After the slide lock lever has been installed, check whether the slide base assembly is locked.



4. Disconnect the flexible flat cable.
- 1) Remove the three screws and detach the bottom cover (front).
 - 2) Disconnect the flexible flat cable from the connector (CN102) on the CN-3759 board.



5. Remove the screw and remove the slide base assembly in the direction of the arrow.



Note

When installing the screw, place the screw hole of the slide base over the portion A of the adaptor base.

6. Install the removed parts by reversing the steps of removal.

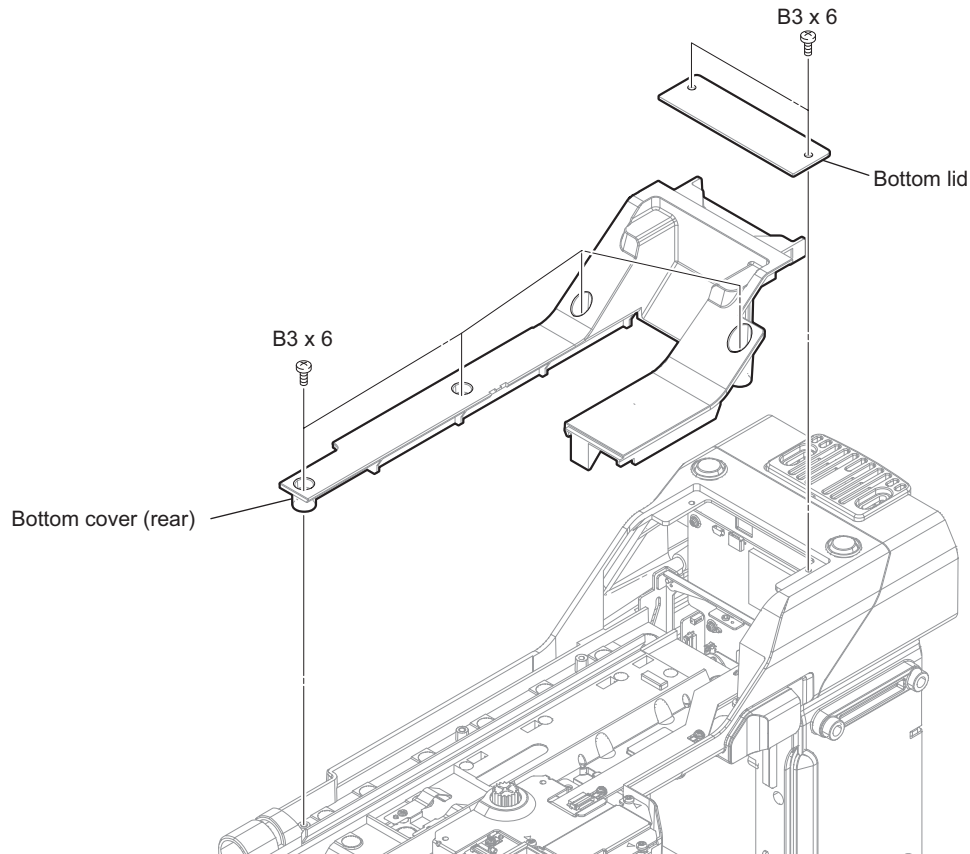
2-8. CN-3759 Board

Preparation

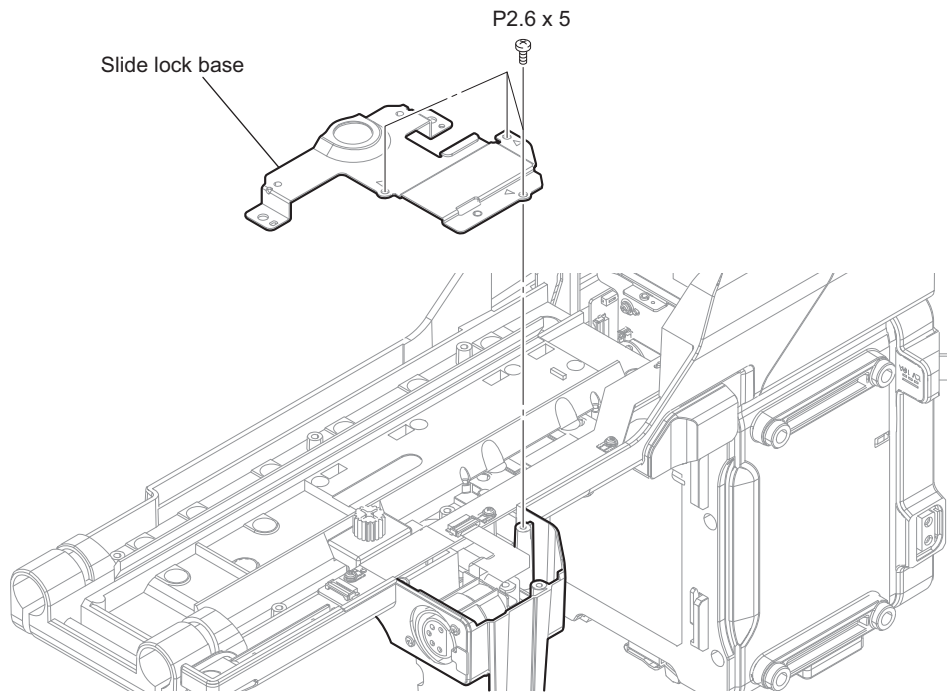
1. Remove the BA case assembly. (Refer to “2-2. BA Case Assembly”)
2. Remove the slide base assembly. (Refer to “2-7. Slide Base Assembly”)

Procedure

1. Remove the bottom lid and the bottom cover (rear).
 - 1) Remove the two screws and detach the bottom lid.
 - 2) Remove the four screws and detach the bottom cover (rear).

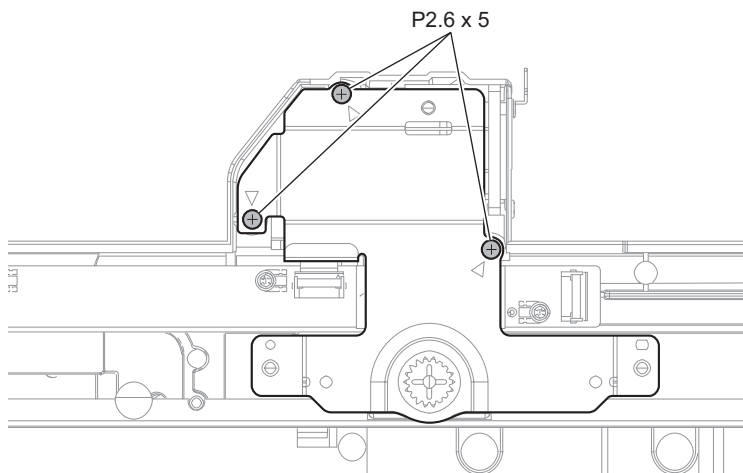


2. Remove the three screws and detach the slide lock base.

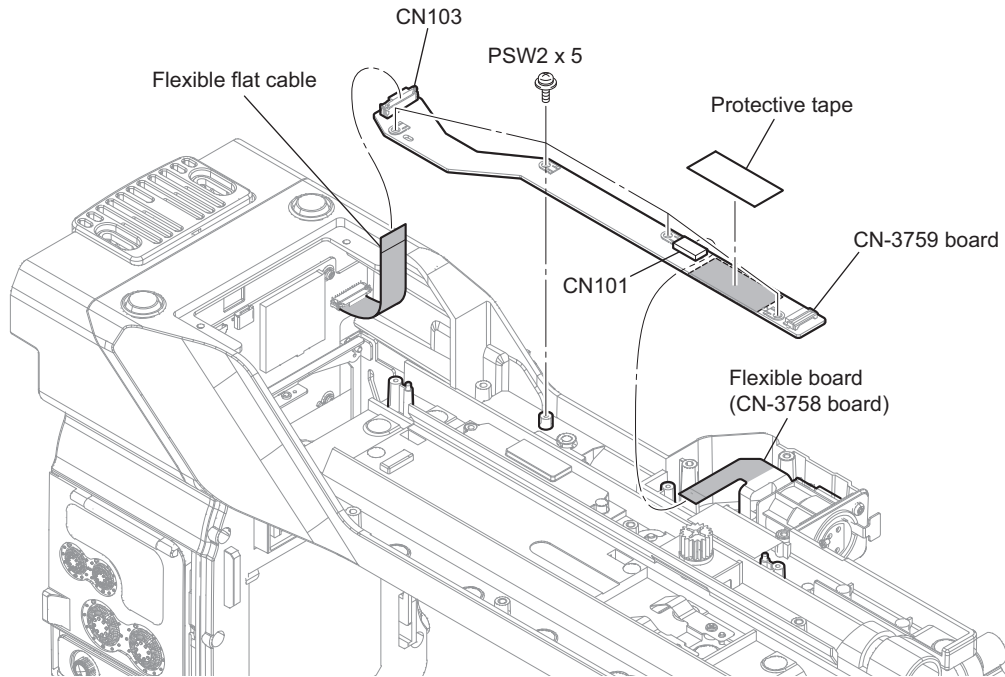


Note

When installing the slide lock base, install screws at the positions shown below.



3. Remove the CN-3759 board.
 - 1) Disconnect the flexible board from the connector (CN101) on the CN-3759 board.
 - 2) Disconnect the flexible flat cable from the connector (CN103) on the CN-3759 board.
 - 3) Remove the four screws and detach the CN-3759 board.
 - 4) Remove the protective tape from the CN-3759 board.



4. Install the removed parts by reversing the steps of removal.

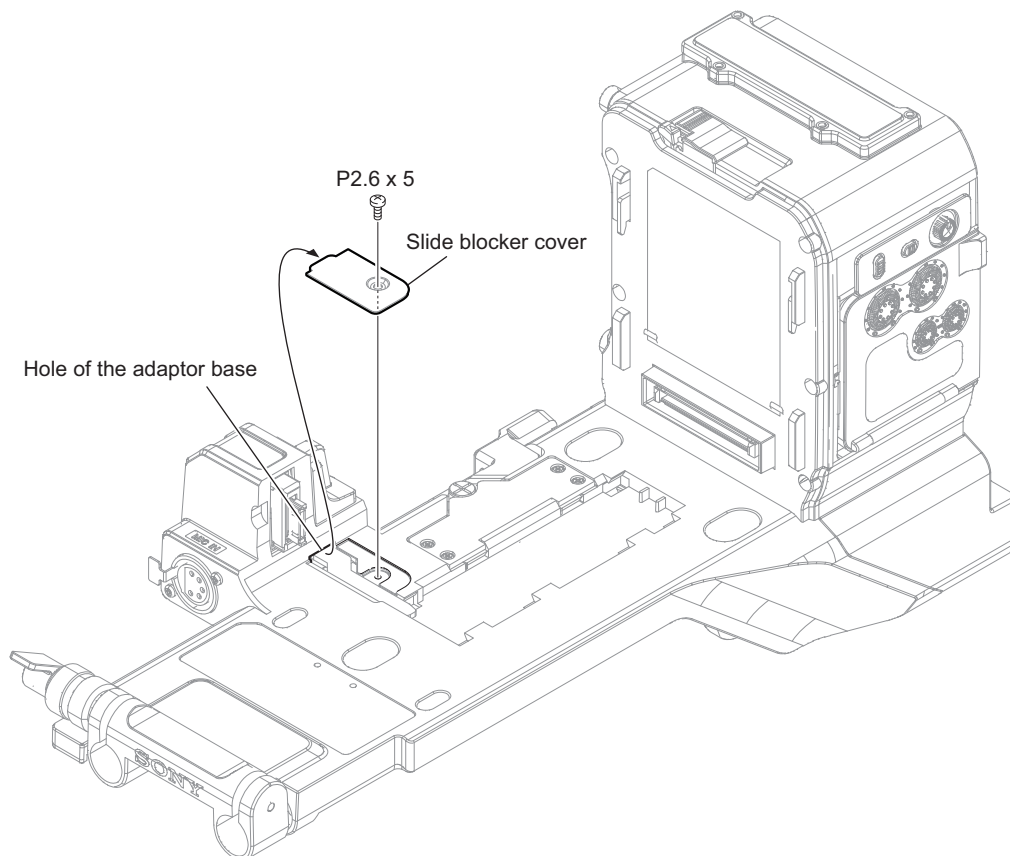
2-9. CN-3758 Board

Preparation

1. Remove the BA case assembly. (Refer to “2-2. BA Case Assembly”)
2. Remove the slide base assembly. (Refer to “2-7. Slide Base Assembly”)
3. Remove the slide lock base. (Refer to “2-8. CN-3759 Board”)

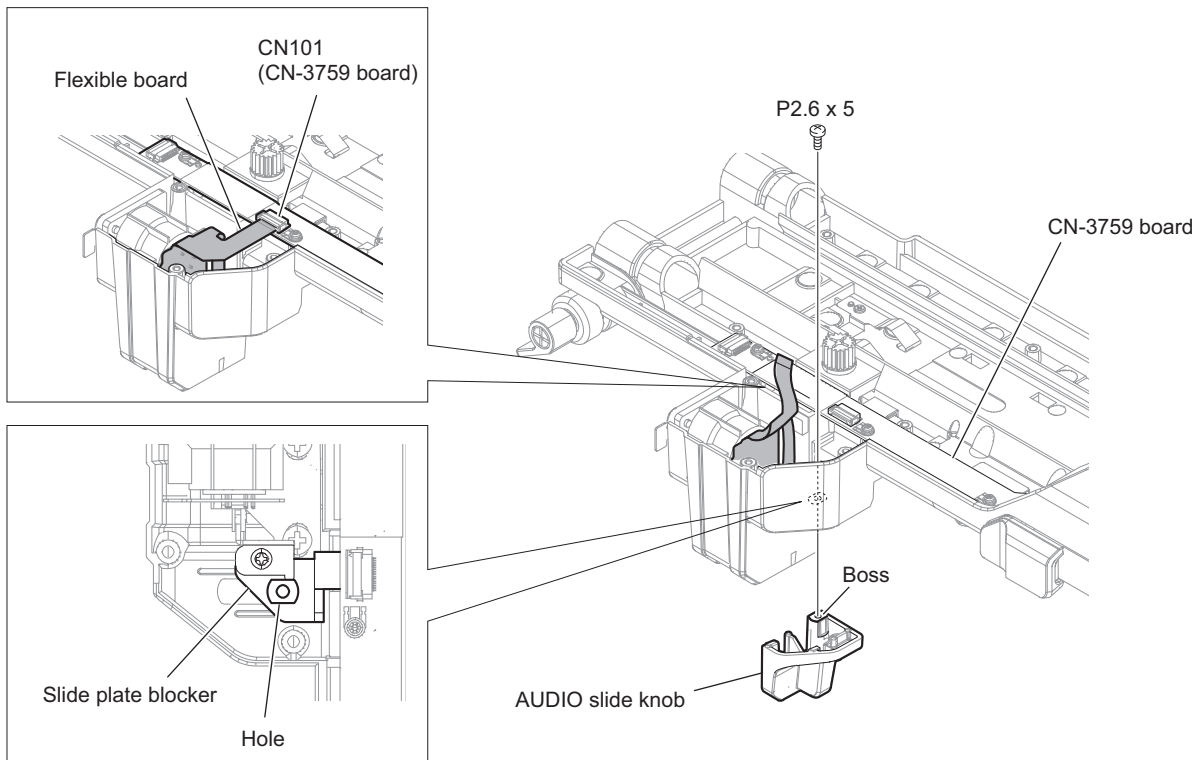
Procedure

1. Remove the slide blocker cover.
 - 1) Remove the screw.
 - 2) Remove the slide blocker cover out of the hole in the adaptor base.



2. Remove the AUDIO slide knob.

- 1) Disconnect the flexible board from the connector (CN101) on the CN-3759 board.
- 2) Remove the screw and detach the AUDIO slide knob.

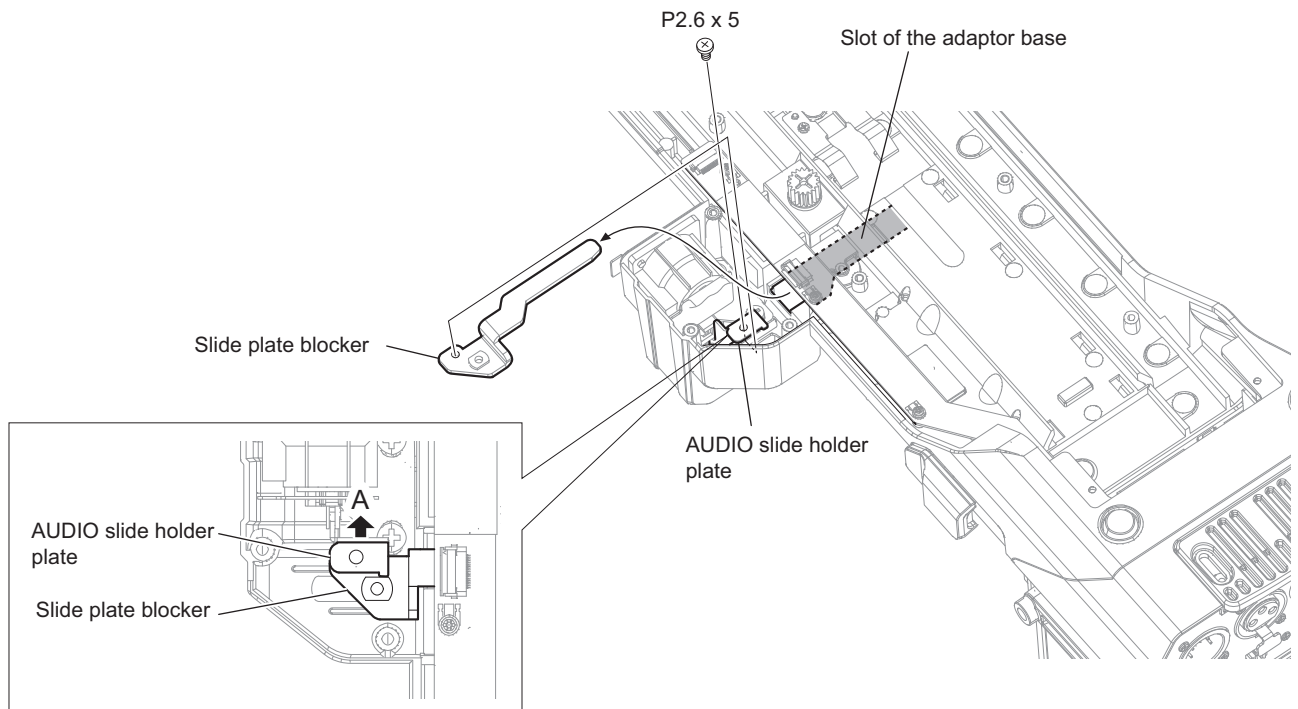


Note

When installing the AUDIO slide knob, align the hole of the slide plate blocker with the boss of the AUDIO slide knob.

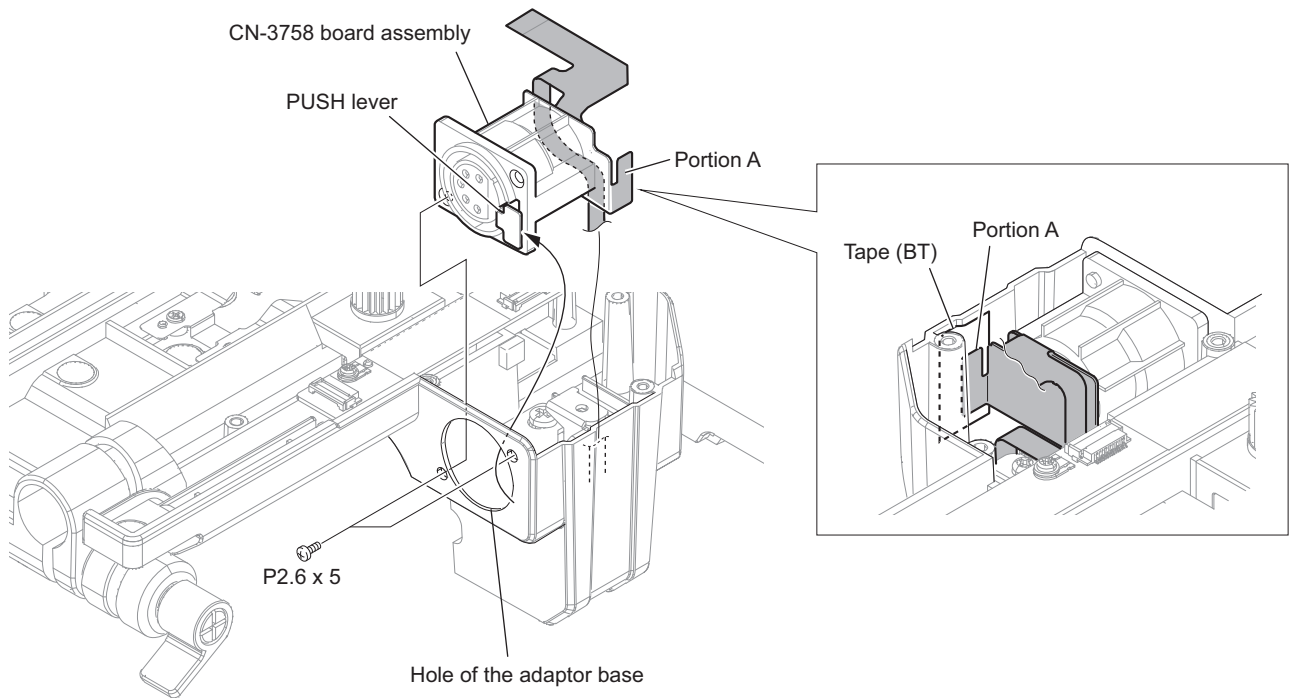
3. Remove the slide plate blocker.

- 1) Remove the screw.
- 2) Move the AUDIO slide holder plate in the direction of the arrow A, and remove the slide plate blocker out of the slot of the adaptor base.



4. Raise the CN-3758 board assembly.

- 1) Remove the two screws.
- 2) Pull the PUSH lever on the CN-3758 board out of the hole in the adaptor base, and then raise the CN-3758 board assembly.

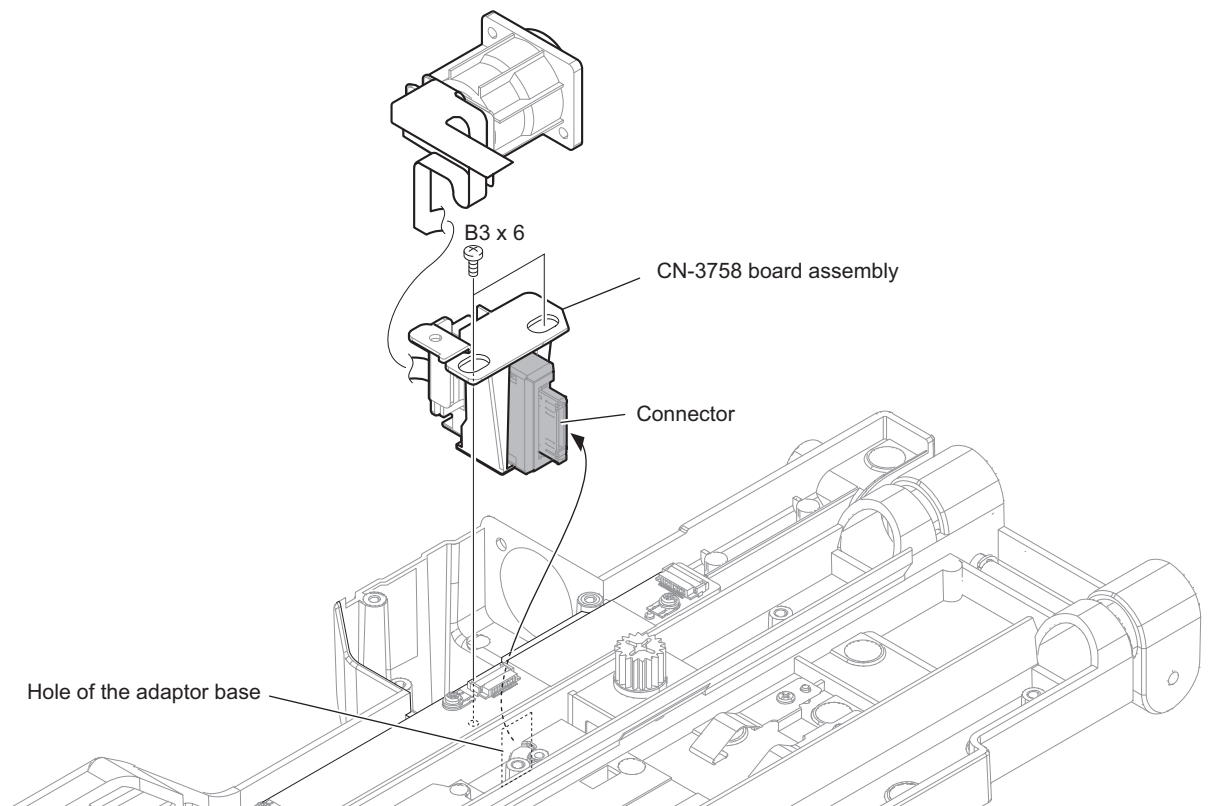


Note

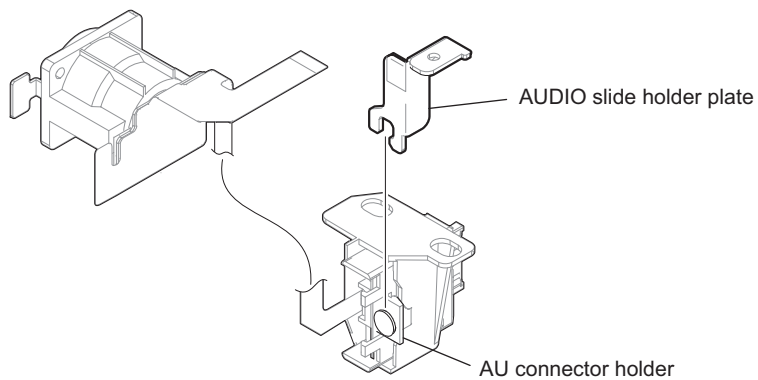
When installing the CN-3758 board assembly, bend the flexible board (portion A) along the tape (BT) as shown in the figure.

5. Remove the CN-3758 board assembly.

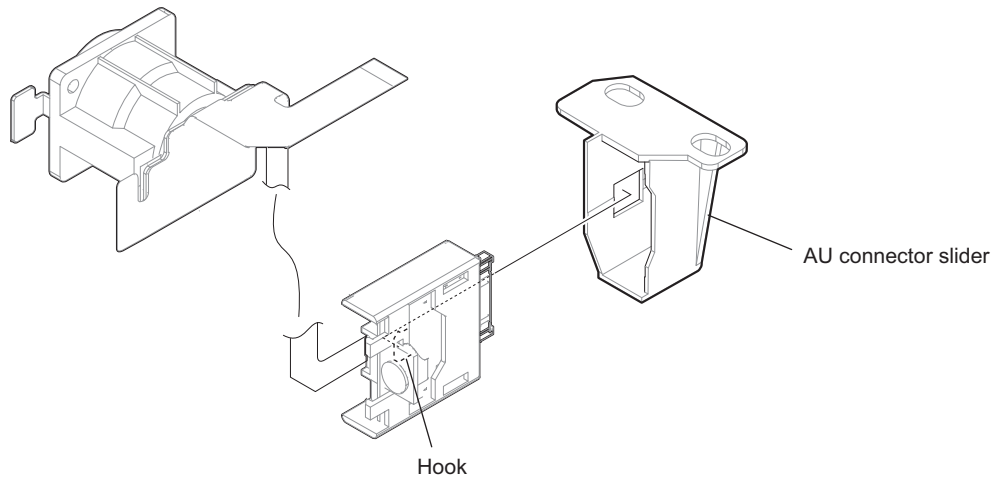
- 1) Remove the two screws.
- 2) Pull the connector out of the hole in the adaptor base and remove the CN-3758 board assembly.



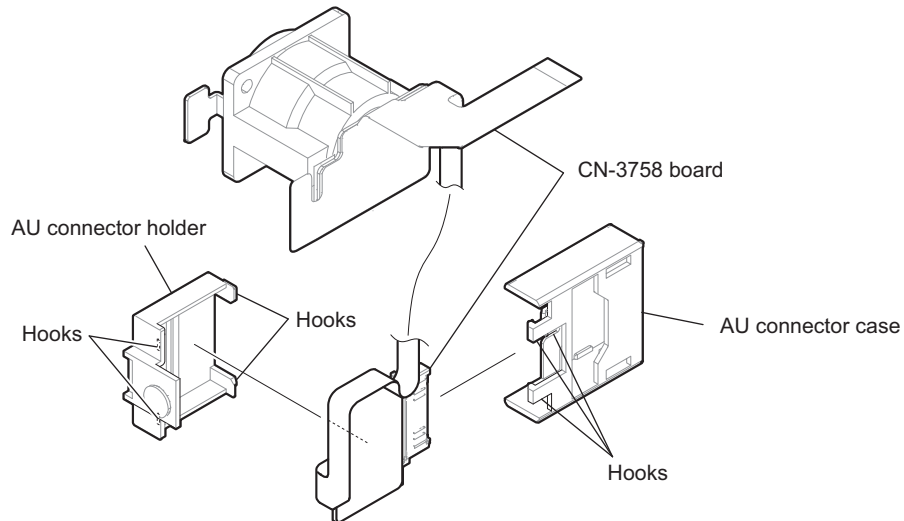
6. Remove the AUDIO slide holder plate.



7. Release the hook and remove the AU connector slider.



8. Remove the AU connector case, AU connector holder.
- 1) Release the three hooks and remove the AU connector case.
 - 2) Release the four hooks and remove the AU connector holder.



9. Install the removed parts by reversing the steps of removal.

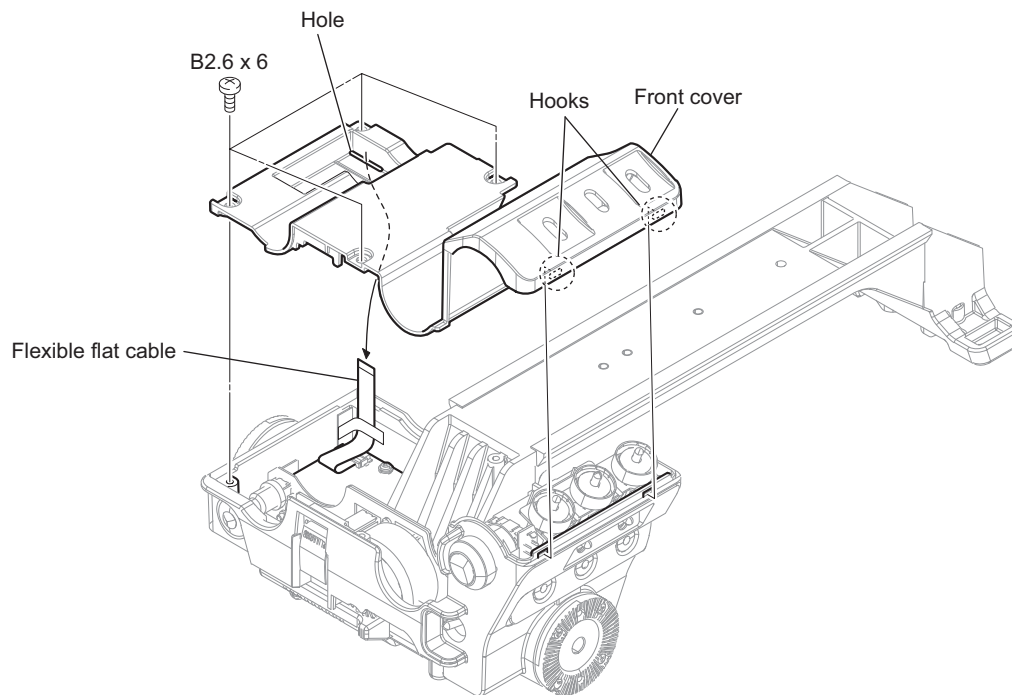
2-10. SW-1656 Board

Preparation

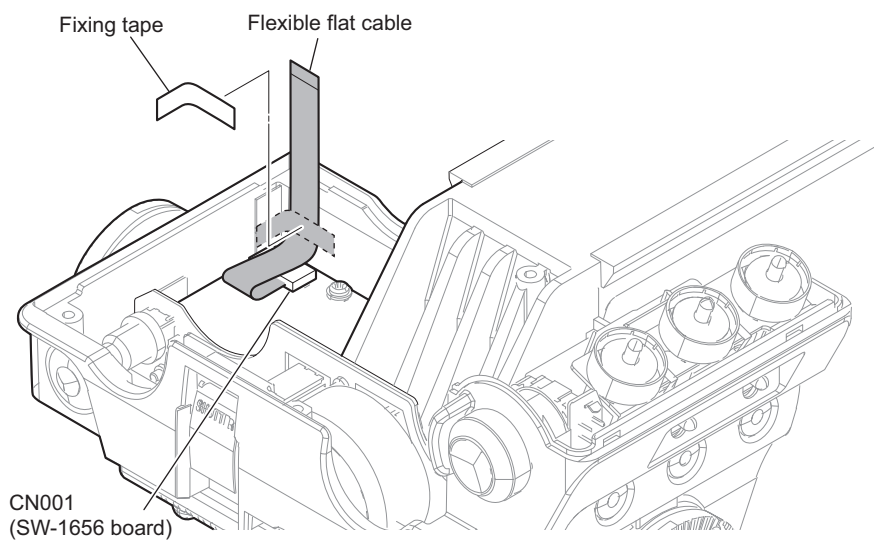
1. Remove the BA case assembly. (Refer to “2-2. BA Case Assembly”)
2. Remove the slide base assembly. (Refer to “2-7. Slide Base Assembly”)

Procedure

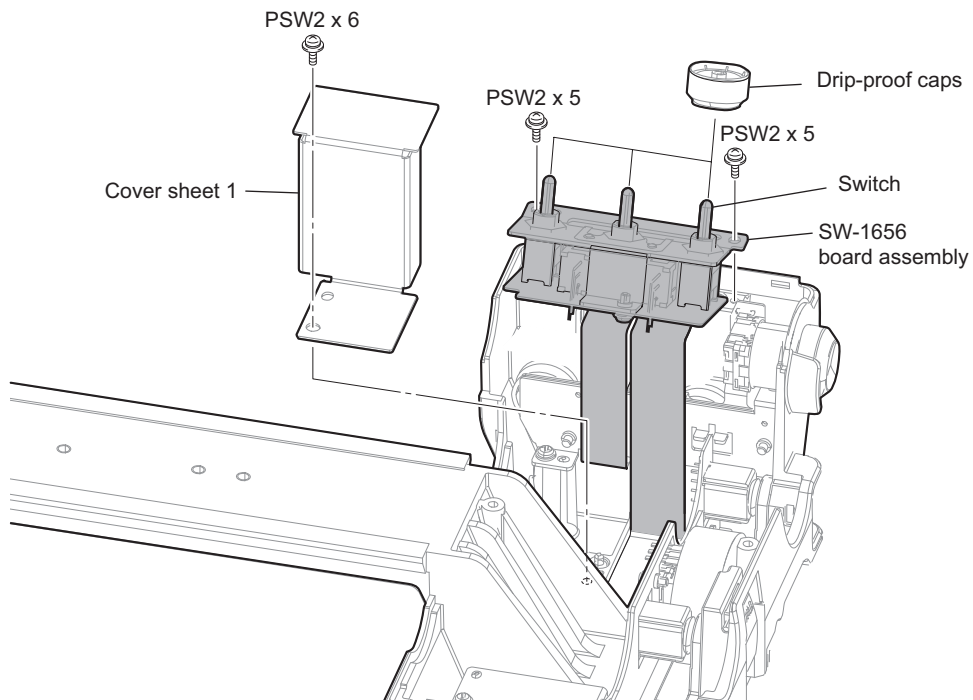
1. Remove the front cover.
 - 1) Remove the four screws.
 - 2) Release the two hooks and raise the front cover.
 - 3) Pull the flexible flat cable out of the hole in the front cover.



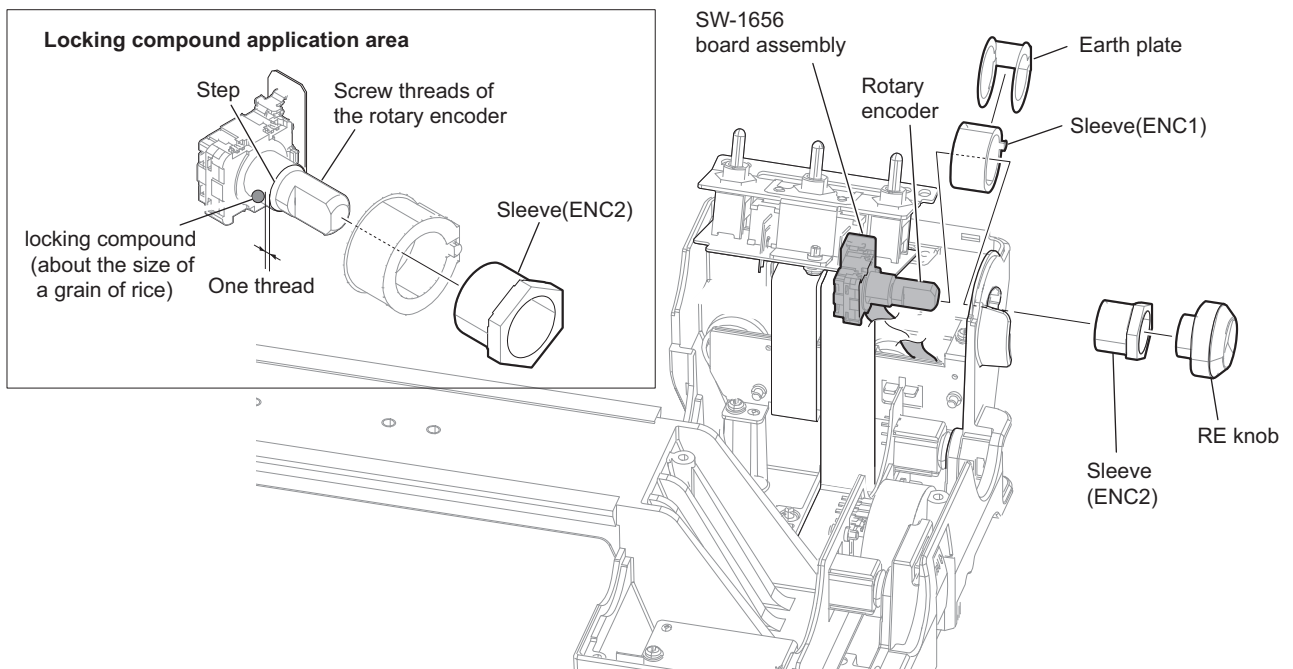
2. Disconnect the flexible flat cable.
 - 1) Remove the fixing tape.
 - 2) Disconnect the flexible flat cable from the connector (CN001) on the SW-1656 board.



3. Raise the SW-1656 board assembly.
 - 1) Remove the three drip-proof caps from the three switches on the SW-1656 board.
 - 2) Remove the screw (PSW2 x 6) and detach the cover sheet 1.
 - 3) Remove the two screws (PSW2 x 5) and raise the SW-1656 board assembly.



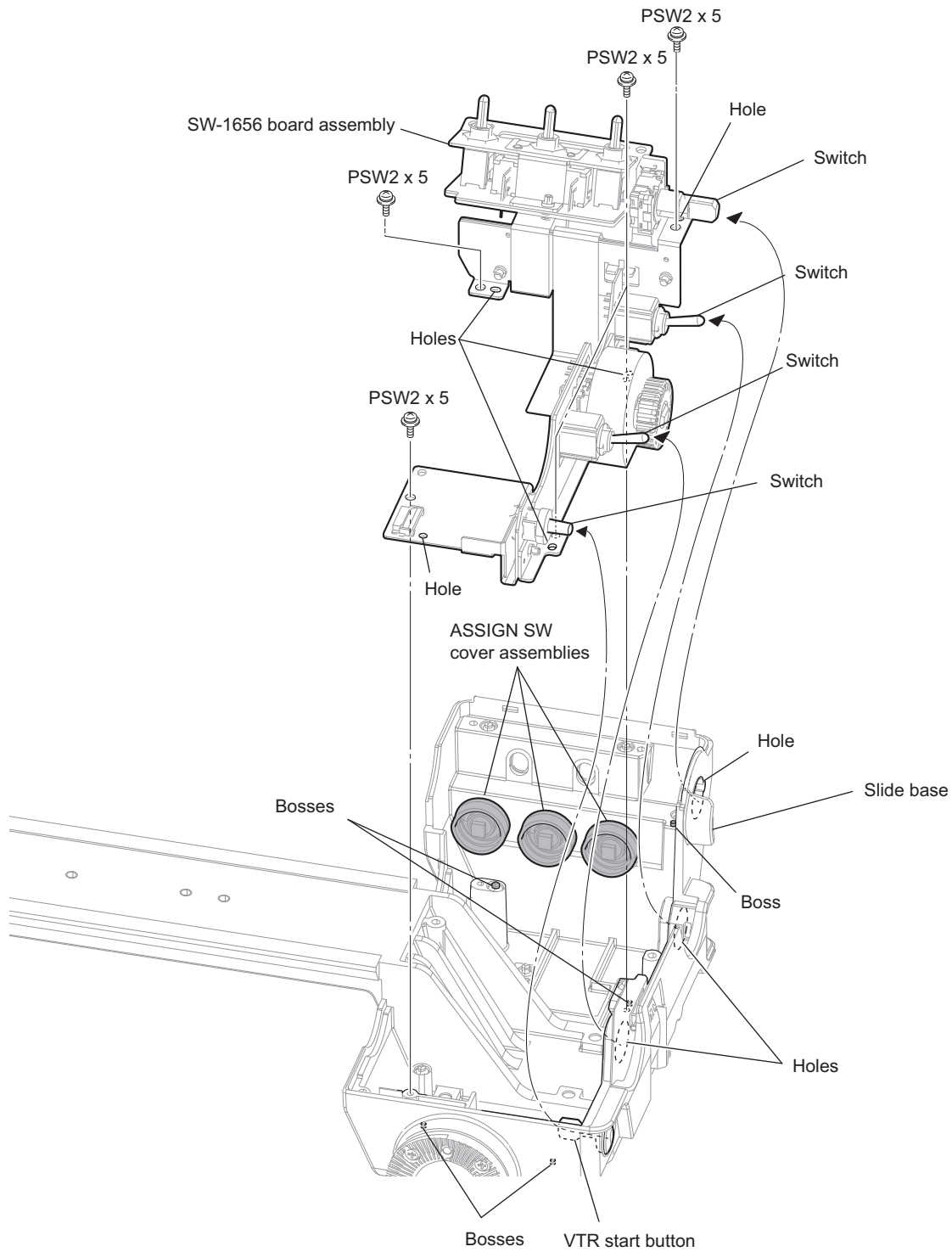
4. Raise the SW-1656 board assembly.
 - 1) Remove the RE knob and the sleeve (ENC2).
 - 2) Raise the SW-1656 board assembly and remove the earth plate and the sleeve (ENC1) from the rotary encoder.



Note

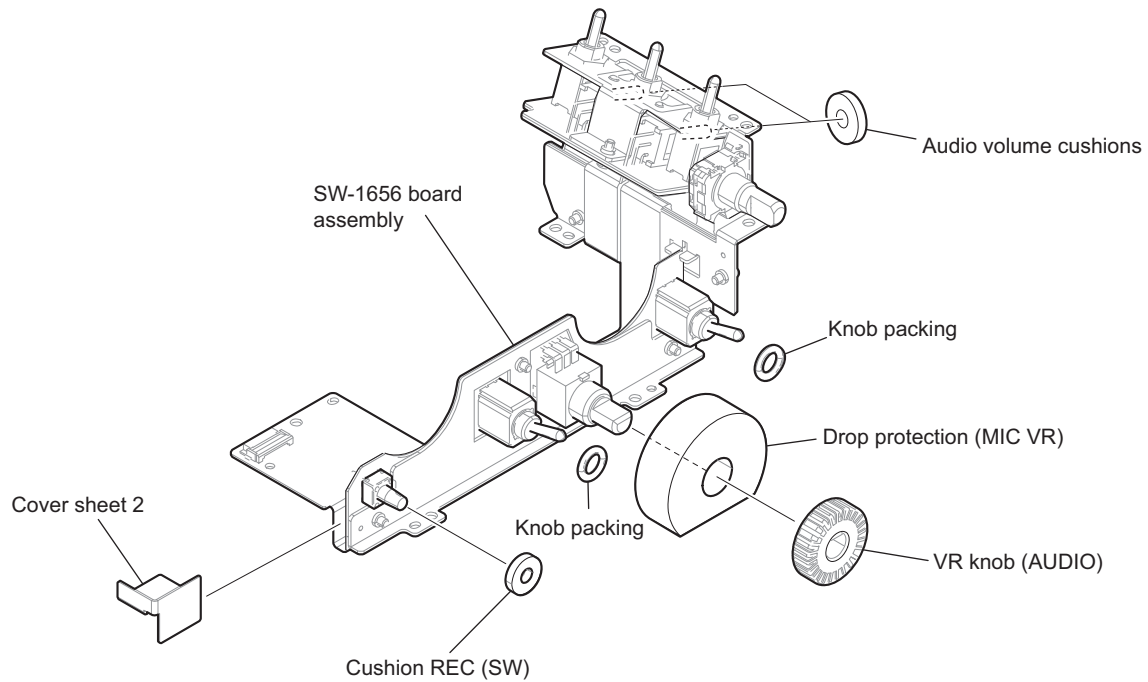
When installing the SW-1656 board assembly, apply locking compound to the sleeve (ENC1) and screw threads of the rotary encoder to bond them.

5. Remove the SW-1656 board assembly.
 - 1) Remove the five screws.
 - 2) Remove the five bosses from the five holes in the SW-1656 board assembly.
 - 3) Remove the four switches from the three holes in the slide base and the VTR start button, and remove the SW-1656 board assembly.
 - 4) Remove the three ASSIGN SW cover assemblies.



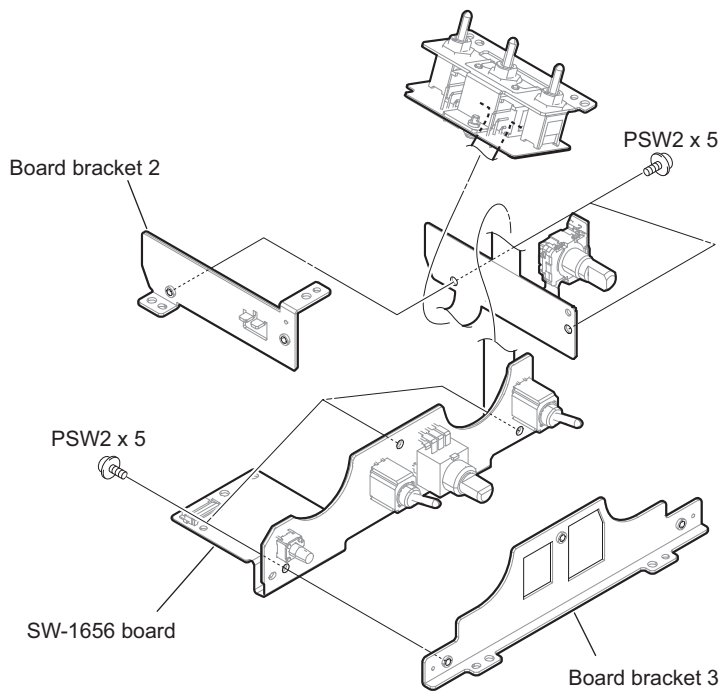
6. Remove the packings and cushions.

- 1) Remove the cover sheet 2.
- 2) Remove the cushion REC (SW), two audio volume cushions, VR knob (AUDIO), drop protection (MIC VR), and two knob packings.



7. Remove the board brackets.

- 1) Remove the two screws and detach the board bracket 2.
- 2) Remove the three screws and detach the board bracket 3.



8. Install the removed parts by reversing the steps of removal.

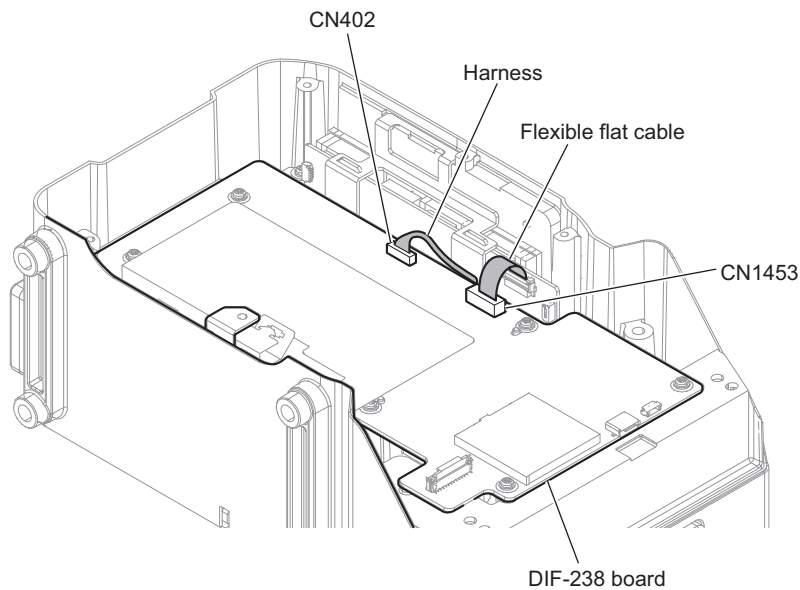
2-11. DIF-238 Board

Preparation

1. Remove the BA case assembly. (Refer to “2-2. BA Case Assembly”)
2. Remove the rear panel assembly. (Refer to “2-4. Rear Panel Assembly”)
3. Remove the rear case assembly. (Refer to “2-5. Rear Case Assembly”)
4. Remove the rear case cover assembly. (Refer to “2-6. Rear Case Cover Assembly”)

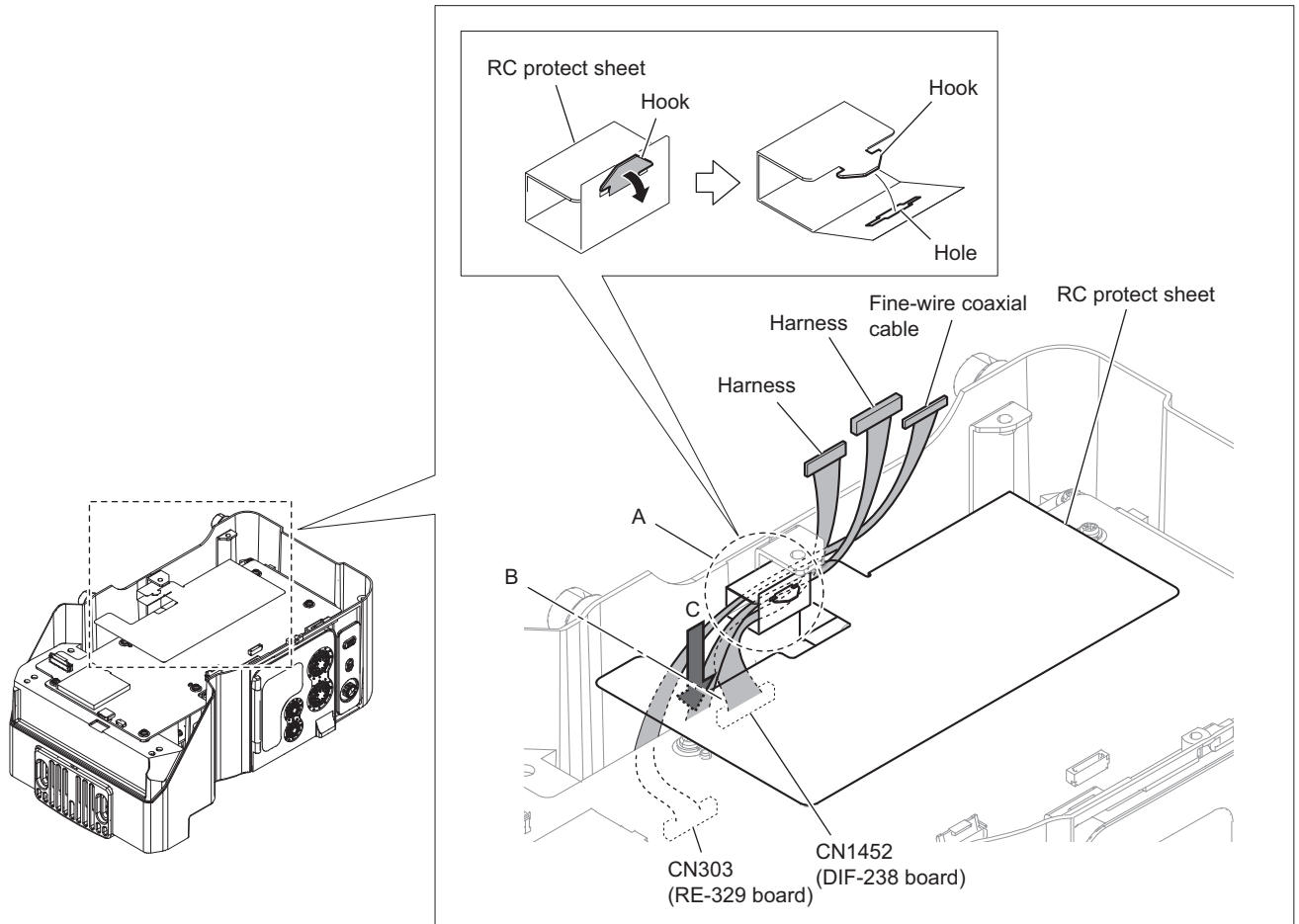
Procedure

1. Disconnect the flexible flat cable and the harness.
 - 1) Disconnect the flexible flat cable from the connector (CN1453) on the DIF-238 board.
 - 2) Disconnect the harness from the connector (CN402) on the DIF-238 board.



2. Remove the RC protect sheet.

- 1) Turn down the bended part of the hook on the RC protect sheet, and pull the hook out of the hole.
- 2) Disconnect the two harnesses and the fine-wire coaxial cable from portion A of the RC protect sheet.
- 3) Remove the RC protect sheet.



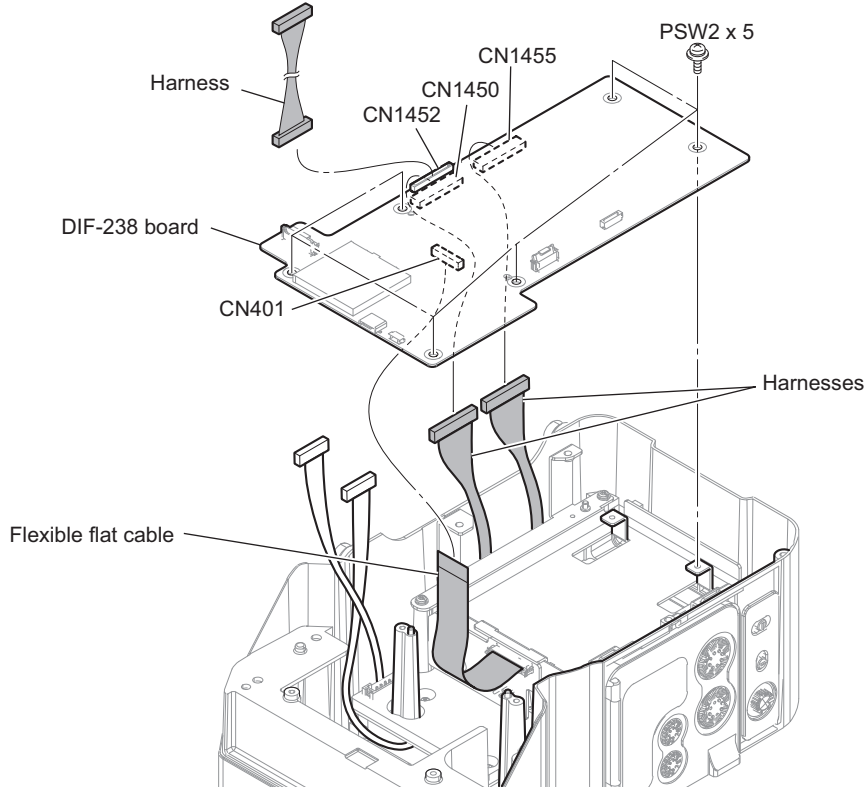
Note

When installing the RC protect sheet, observe the following instructions.

- Pass the cables through portion A of the RC protect sheet in the following sequence: the fine-wire coaxial cable, the harness from the connector CN1452 (DIF-238 board), the harness from the connector CN303 (RE-329 board).
- Pass the fine-wire coaxial cable and the two harnesses inside the line B of the RC protect sheet as shown in the figure.
- Push the excess length of the fine-wire coaxial cable and the two harnesses in the direction of arrow C.

3. Remove the DIF-238 board.

- 1) Disconnect the harness from the connector (CN1452) on the DIF-238 board.
- 2) Remove the six screws and raise the DIF-238 board.
- 3) Disconnect the two harnesses from the connectors (CN1450, CN1455) on the DIF-238 board.
- 4) Disconnect the flexible flat cable from the connector (CN401) on the DIF-238 board.

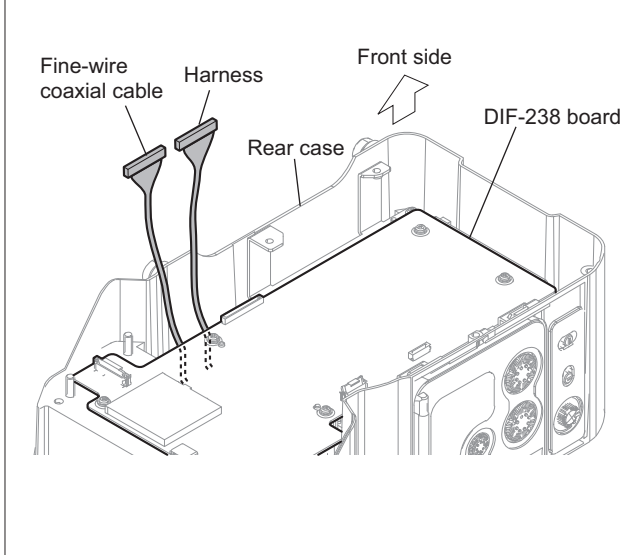


Note

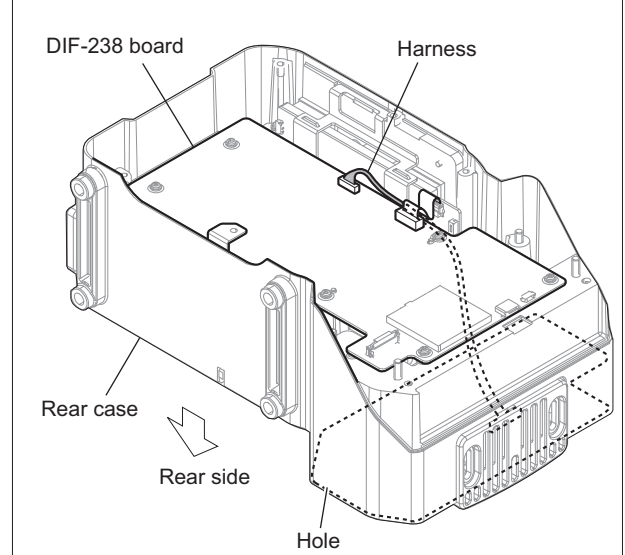
When installing the DIF-238 board, observe the following instructions.

- Draw the harness and the fine-wire coaxial cable on the left side of the DIF-238 board to the front side of the rear case
- Draw the harness on the right side of the DIF-238 board into the rear hole in the rear case.

Harness arrangement (left side of the DIF-238 board)



Harness arrangement (right side of the DIF-238 board)



4. Install the removed parts by reversing the steps of removal.

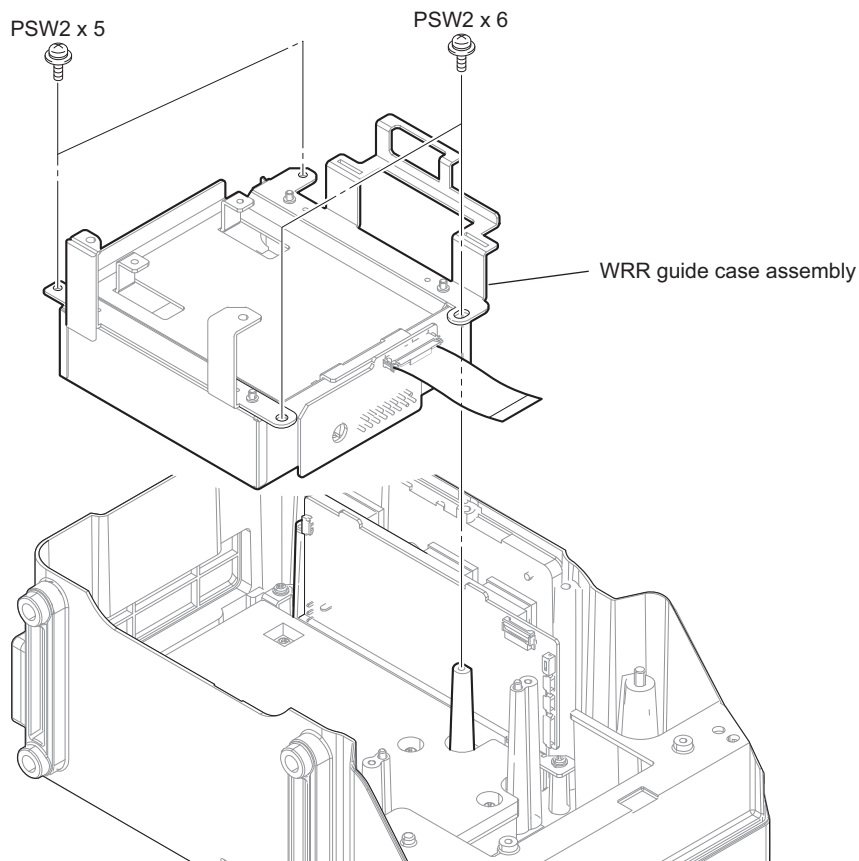
2-12. RX-139 Board

Preparation

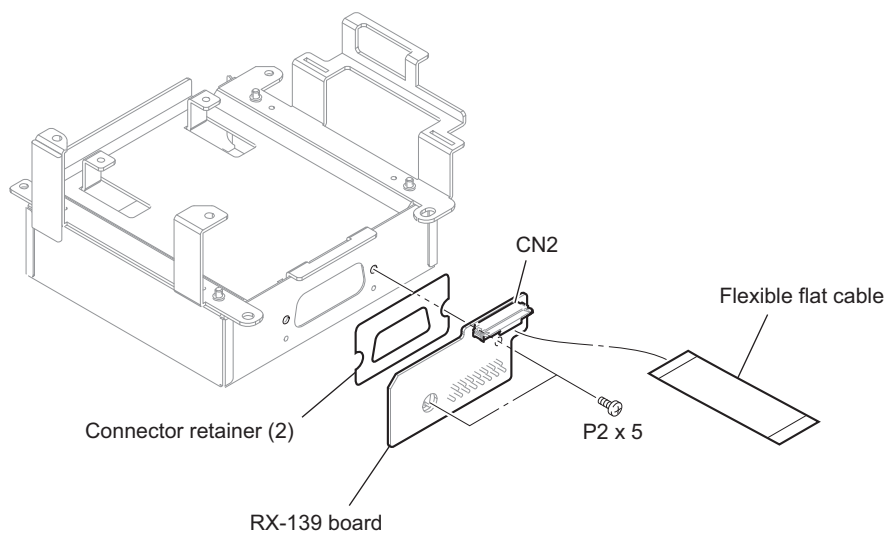
1. Remove the BA case assembly. (Refer to “2-2. BA Case Assembly”)
2. Remove the rear panel assembly. (Refer to “2-4. Rear Panel Assembly”)
3. Remove the rear case assembly. (Refer to “2-5. Rear Case Assembly”)
4. Remove the rear case cover assembly. (Refer to “2-6. Rear Case Cover Assembly”)
5. Remove the DIF-238 board. (Refer to “2-11. DIF-238 Board”)

Procedure

1. Remove the four screws (PSW2 x 5, PSW2 x 6) and remove the WRR guide case assembly.



2. Remove the RX-139 board.
 - 1) Disconnect the flexible flat cable from the connector (CN2) on the RX-139 board.
 - 2) Remove the two screws and detach the connector retainer (2) and the RX-139 board.



3. Install the removed parts by reversing the steps of removal.

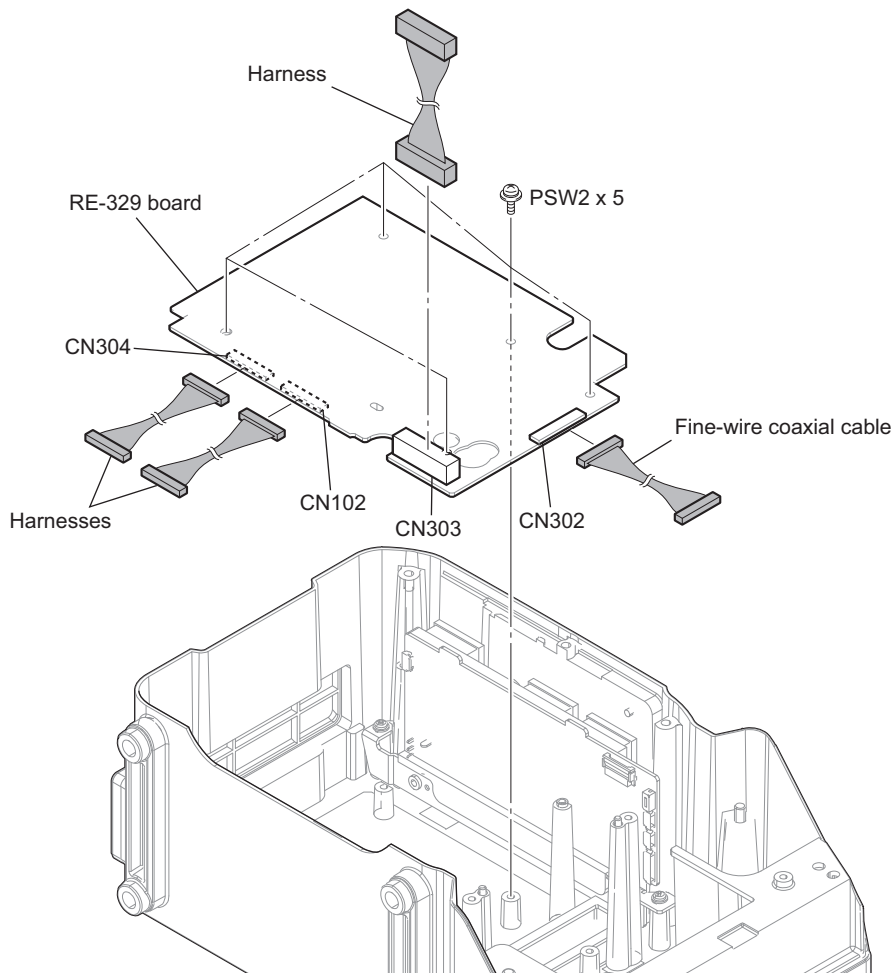
2-13. RE-329 Board

Preparation

1. Remove the BA case assembly. (Refer to “2-2. BA Case Assembly”)
2. Remove the rear panel assembly. (Refer to “2-4. Rear Panel Assembly”)
3. Remove the rear case assembly. (Refer to “2-5. Rear Case Assembly”)
4. Remove the rear case cover assembly. (Refer to “2-6. Rear Case Cover Assembly”)
5. Remove the DIF-238 board. (Refer to “2-11. DIF-238 Board”)
6. Remove the RX-139 board. (Refer to “2-12. RX-139 Board”)

Procedure

1. Remove the RE-329 board.
 - 1) Disconnect the harness from the connector (CN303) on the RE-329 board.
 - 2) Remove the five screws and detach the RE-329 board.
 - 3) Disconnect the two harnesses from the connectors (CN304, CN102) on the RE-329 board.
 - 4) Disconnect the fine-wire coaxial cable from the connector (CN302) on the RE-329 board.



2. Install the removed parts by reversing the steps of removal.

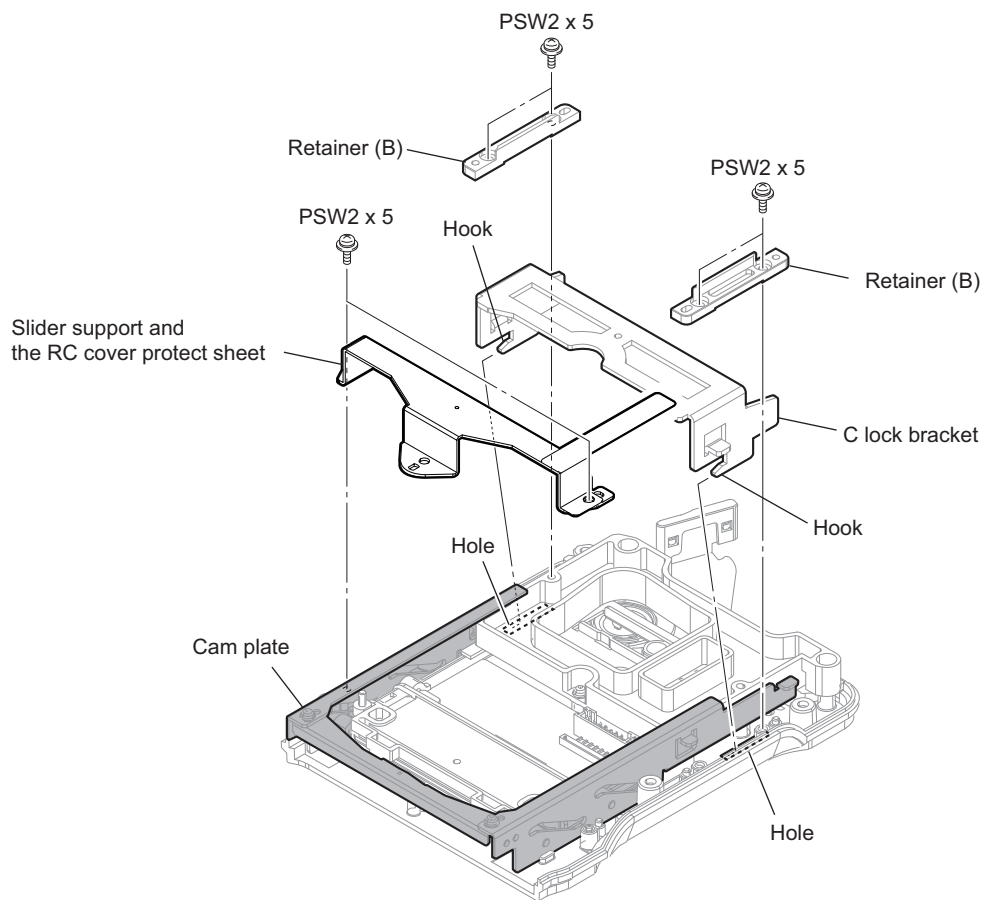
2-14. IF-1276 Board

Preparation

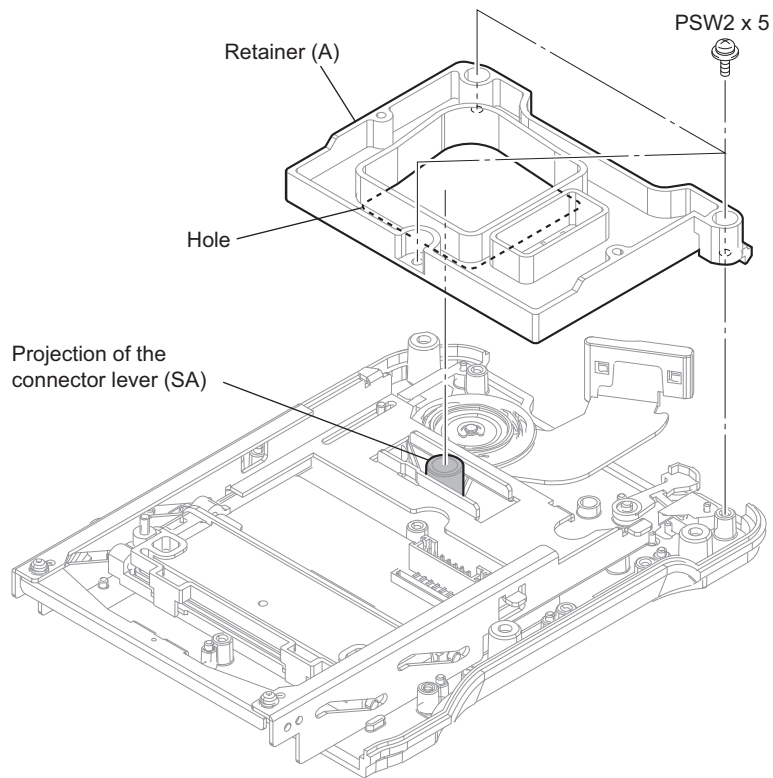
1. Remove the rear case cover assembly. (Refer to “2-6. Rear Case Cover Assembly”)

Procedure

1. Remove the slider support and the C lock bracket.
 - 1) Remove the two screws and detach the slider support and the RC cover protect sheet.
 - 2) Set the cam plate at the position shown below.
 - 3) Remove the four screws and detach the two retainers (B).
 - 4) Release the two hooks and detach the C lock bracket.

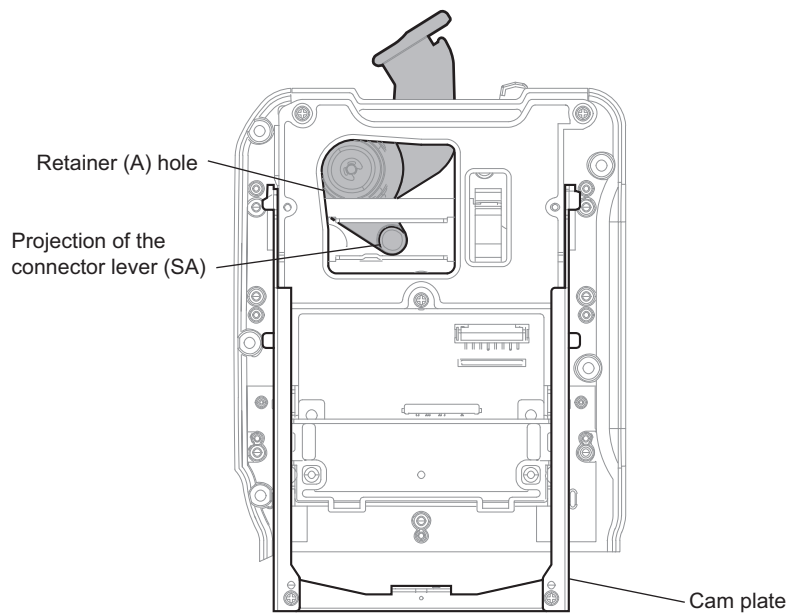


2. Remove the three screws and detach the retainer (A).



Note

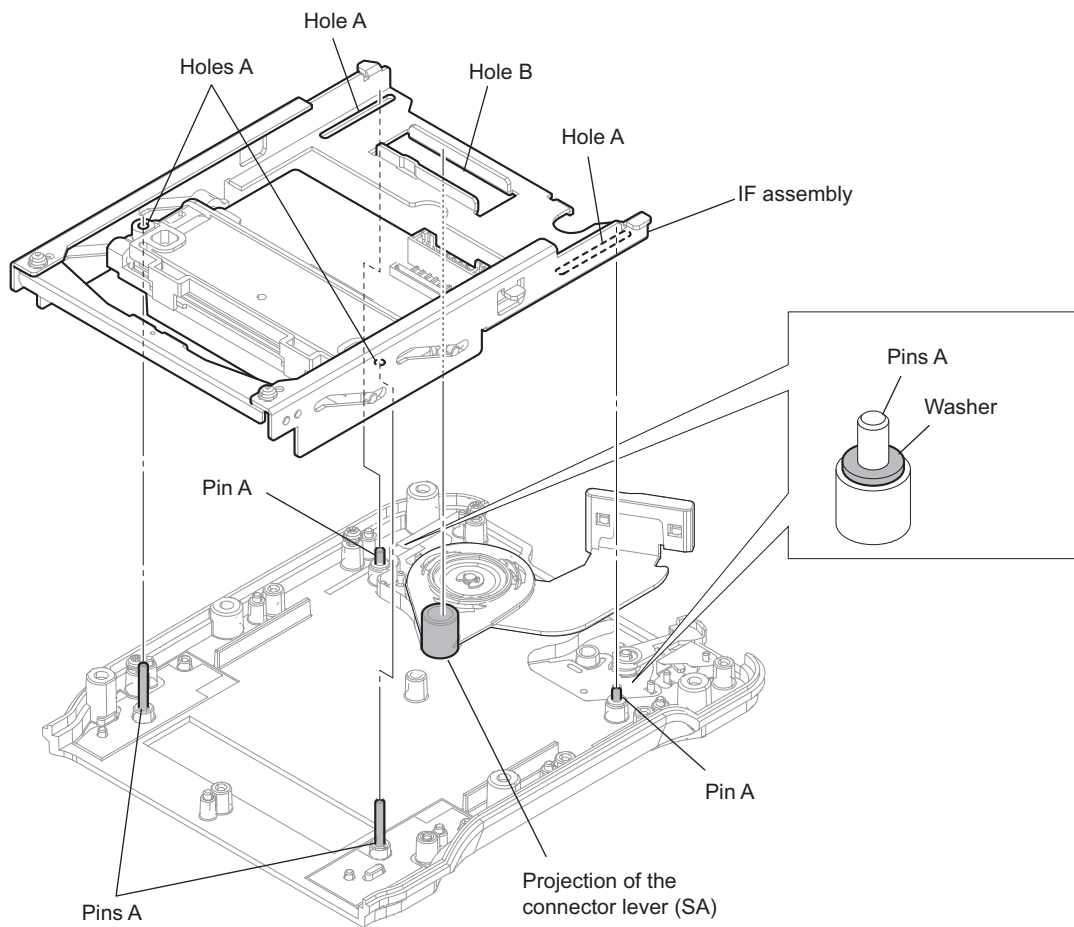
When installing the retainer (A), set the projection of the connector lever (SA), the retainer (A) hole, and the cam plate as shown below.



3. Remove the four pins A from the four holes A, and remove the IF assembly.

Note

Washers are attached to pins A. Carefully remove the IF assembly so as not to lose the washers.



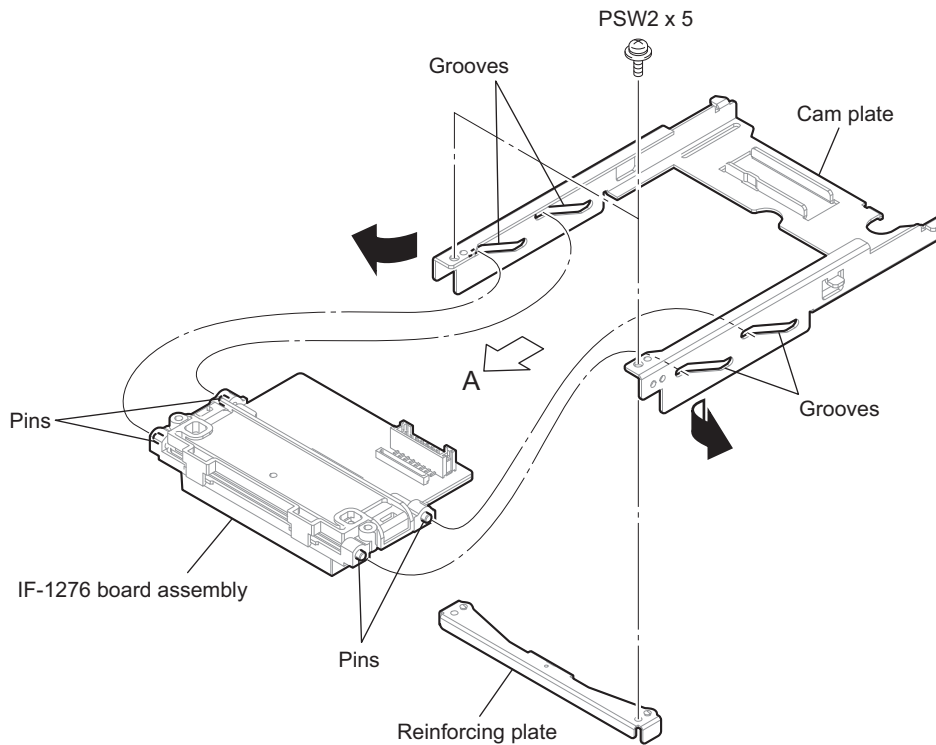
Note

When installing the IF assembly, match the projection of the connector lever (SA) with hole B.

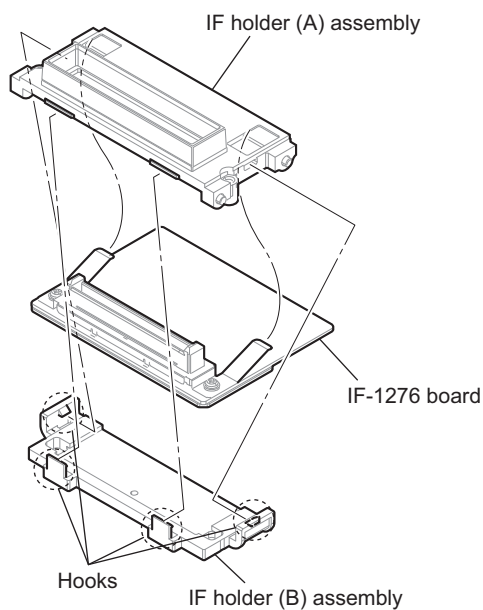
4. Remove the reinforcing plate and the IF-1276 board assembly.
 - 1) Remove the two screws and detach the reinforcing plate.
 - 2) Move the IF-1276 board assembly in the direction of the arrow A.
 - 3) Spread the cam plate outward, remove the pins from the four grooves, and then remove the IF-1276 board assembly.

Note

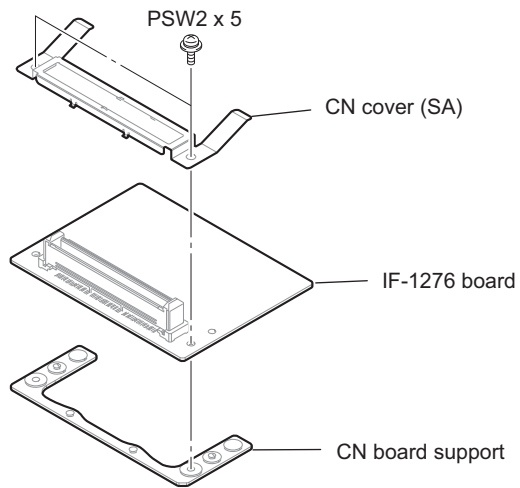
Be careful not to spread the cam plate assembly too wide. If the plate is spread too wide, it does not revert to the original shape.



5. Release the four hooks and detach the IF holder (A) assembly and the IF holder (B).



6. Remove the two screws and detach the CN cover (SA) and the CN board support (SA).



7. Install the removed parts by reversing the steps of removal.

Section 3

Spare Parts

3-1. Note on Repair Parts

1. Safety Related Components Warning

WARNING

Components marked △ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.

3. Stock of Parts

Parts marked with “o” at SP (Supply Code) column of the spare parts list may not be stocked. Therefore, the delivery date will be delayed.

1. 安全重要部品

△警告

△印のついた部品は安全性を維持するために重要な部品です。したがって、交換する時は必ず指定の部品を使ってください。

2. 部品の共通化

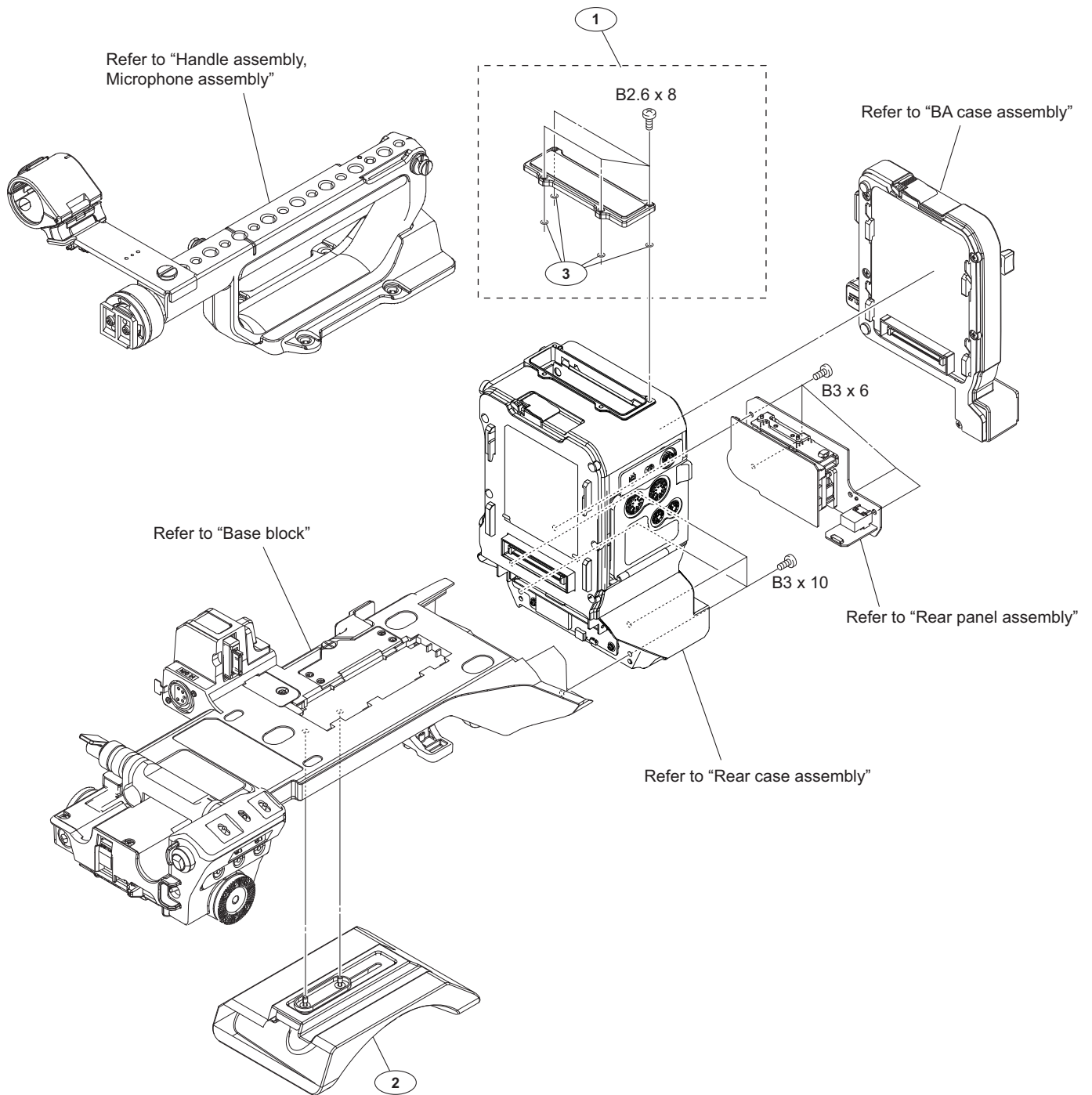
ソニーから供給する補修用部品は、セットに使われているものと異なることがあります。これは部品の共通化、改良等によるものです。

3. 部品の在庫

部品表の SP (Supply code) 欄に “o” で示される部品は在庫していないことがあり、納期が長くなる場合があります。

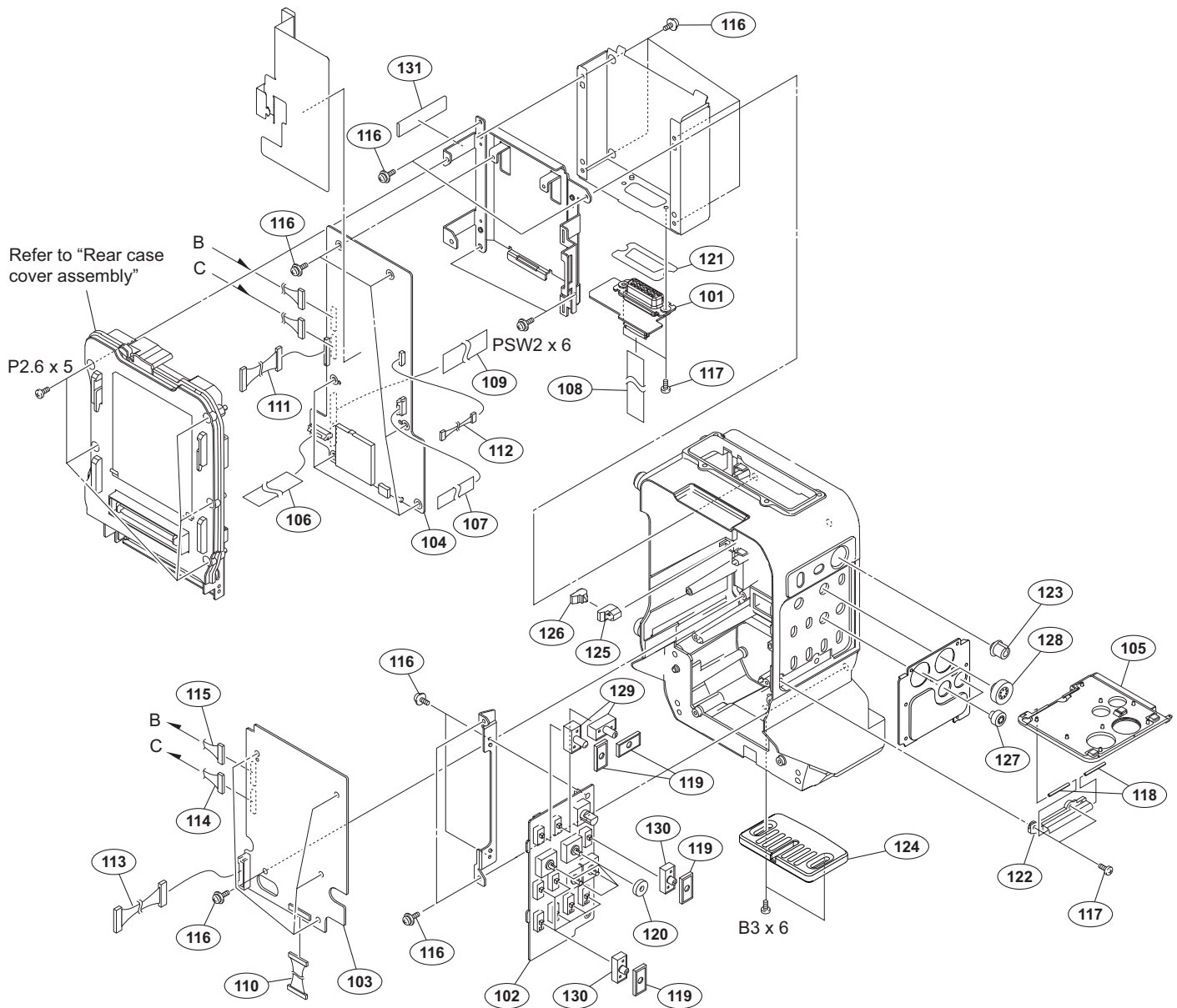
3-2. Exploded Views

Overall



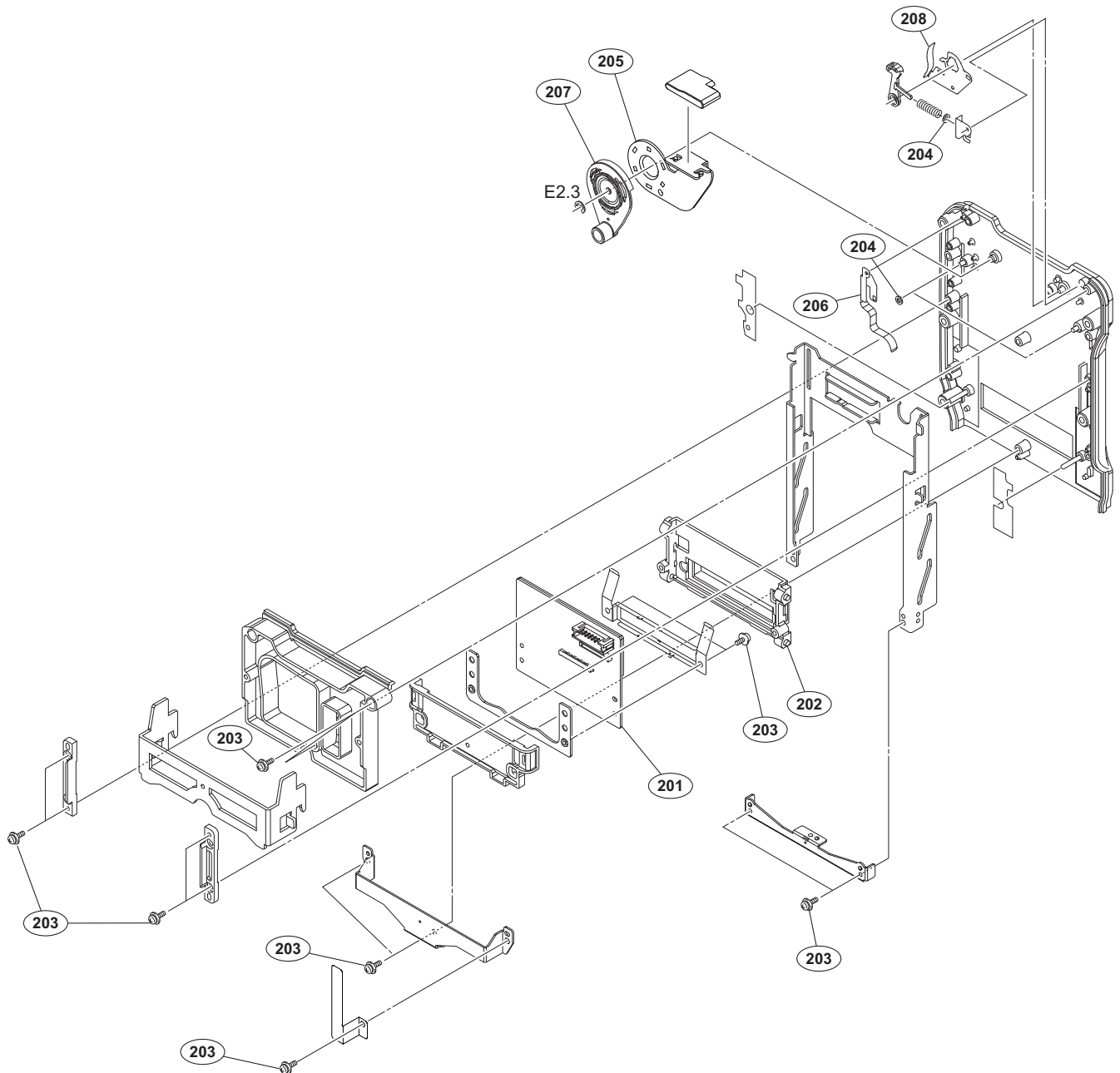
No.	Part No.	SP Description
1	A-1541-534-A s	PLATE (WRR) ASSY, BLIND
2	X-2590-808-1 s	SHOULDER PAD ASSY (SA)
3	3-742-004-01 s	RING, NYLON
	7-621-775-40 s	SCREW +B 2.6X8
	7-682-547-09 s	SCREW +B 3X6
	7-682-549-04 s	SCREW +B 3X10

Rear Case Assembly



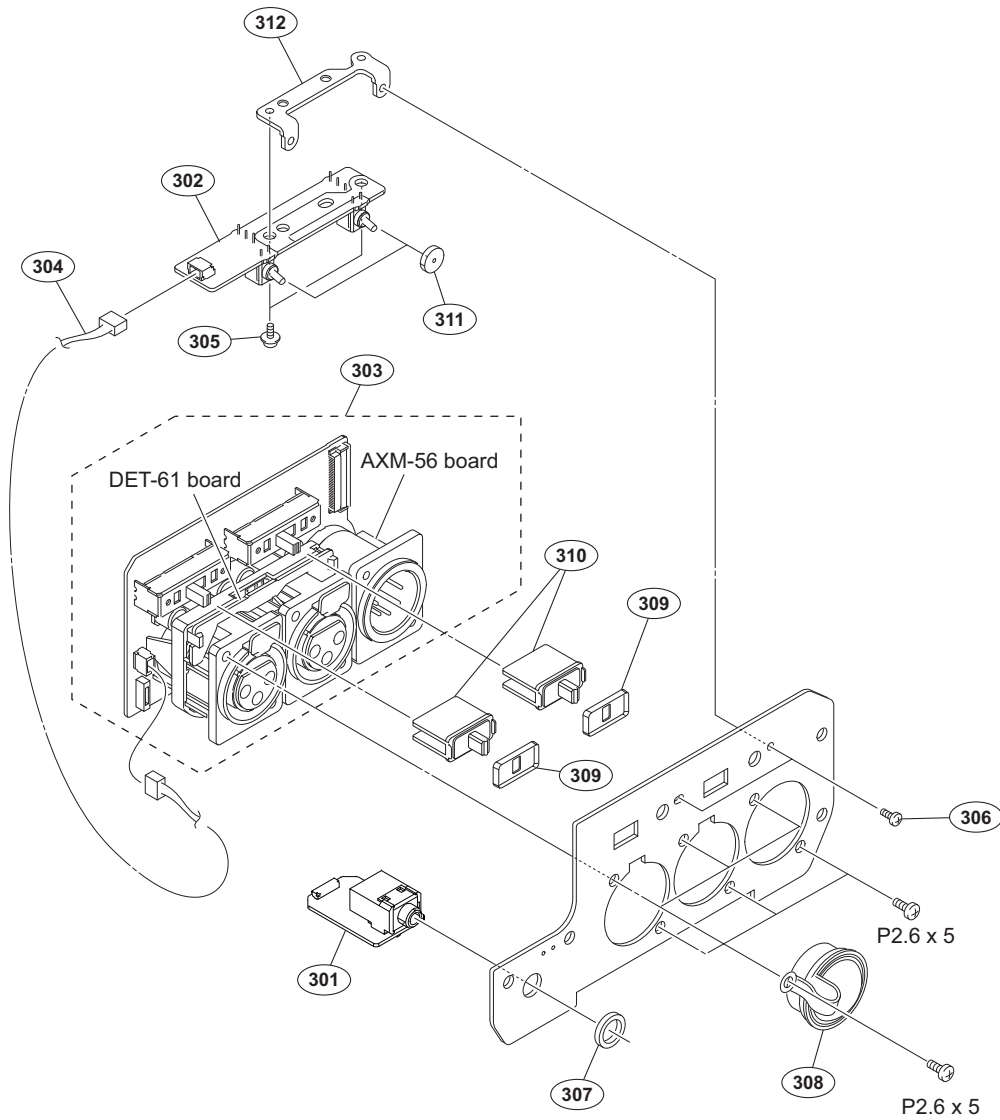
No.	Part No.	SP Description	No.	Part No.	SP Description
101	A-2066-369-A s	MOUNTED CIRCUIT BOARD, RX-139	121	3-826-984-03 s	CONNECTOR RETAINER 2
102	A-2067-338-A s	MOUNTED CIRCUIT BOARD, FP-240	122	3-870-058-01 s	HINGE, SW DOOR
103	A-2067-339-A s	MOUNTED CIRCUIT BOARD, RE-329	123	4-000-117-02 s	VOL KNOB
104	A-2067-340-A s	MOUNTED CIRCUIT BOARD, DIF-238	124	4-176-668-01 s	BOTTOM GUARD
105	X-2591-020-1 s	LID SW ASSY	125	4-458-189-11 s	SHADE, LED
106	1-848-790-11 s	FLEXIBLE FLAT CABLE (24 CORE)	126	4-458-190-01 s	INDICATOR, TAP
107	1-848-791-11 s	FLEXIBLE FLAT CABLE (15 CORE)	127	4-472-861-01 s	VR KNOB (S)
108	1-848-792-11 s	FLEXIBLE FLAT CABLE (30 CORE)	128	4-472-862-01 s	VR KNOB (2)
109	1-848-793-11 s	FLEXIBLE FLAT CABLE (30 CORE)	129	4-472-863-01 s	KNOB (B), SWITCH
110	1-969-481-11 s	WIRE, CONNECTOR WITH LEAD (HPR	130	4-472-864-01 s	KNOB (C), SWITCH
111	1-970-639-11 s	HARNESS, SUB (IF-DIF)	131	4-459-285-32 s	GASKET (10X3)
112	1-970-640-11 s	HARNESS, SUB (HP-DIF)			
113	1-970-641-11 s	HARNESS, SUB (IF-RE)			
114	1-970-642-11 s	HARNESS, SUB (RE-DIF22)			
115	1-970-643-11 s	HARNESS, SUB (RE-DIF20)			
116	2-640-315-02 o	SCREW (M2X5), SMALL, +P, SW			
117	3-080-203-41 s	SCREW (M2), LOCK ACE, P2 [P2X5]			
118	3-703-357-06 s	PIN, PARALLEL (DIA. 1.6X14)			
119	3-796-995-01 s	DROP PROTECTION (SW)			
120	3-797-016-01 s	CUSHION VOLUME AUDIO			
				7-627-556-58 s	SCREW +P 2.6X5
				7-628-000-05 s	+PSW 2X6
				7-682-547-09 s	SCREW +B 3X6

Rear Case Cover Assembly



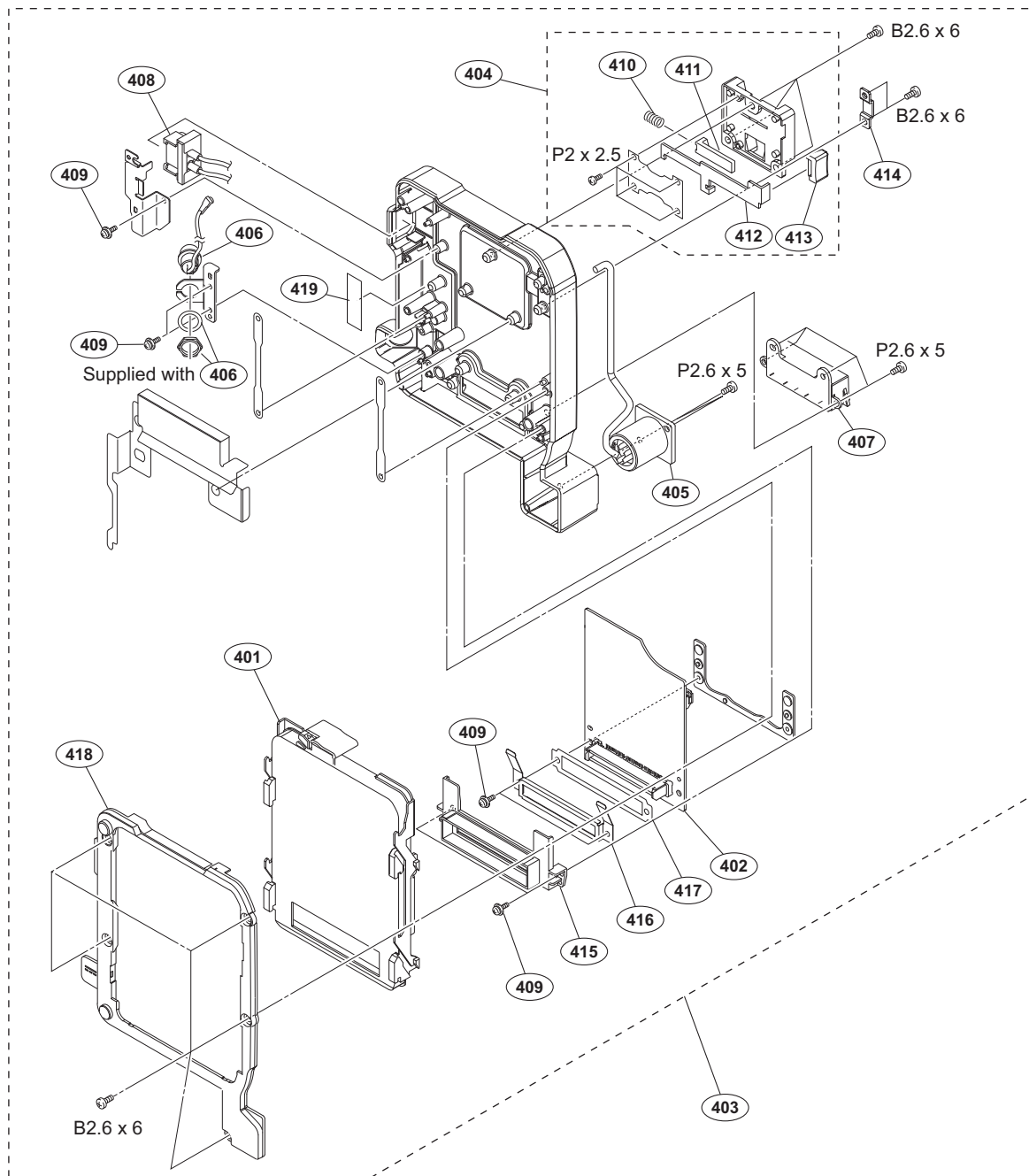
No.	Part No.	SP Description
201	A-2066-360-A s	MOUNTED CIRCUIT BOARD, IF-1276
202	X-2591-019-1 s	IF HOLDER (A) ASSY
203	2-640-315-02 o	SCREW (M2X5), SMALL, +P, SW
204	3-701-437-21 s	WASHER
205	4-559-537-01 s	PLATE, DRIVING
206	4-559-539-01 s	SPRING (DP)
207	4-563-978-01 s	LEVER (SA), CONNECT
208	4-568-638-01 s	PLATE, GND
	7-624-105-04 s	STOP RING 2.3, TYPE -E

Rear Panel Assembly



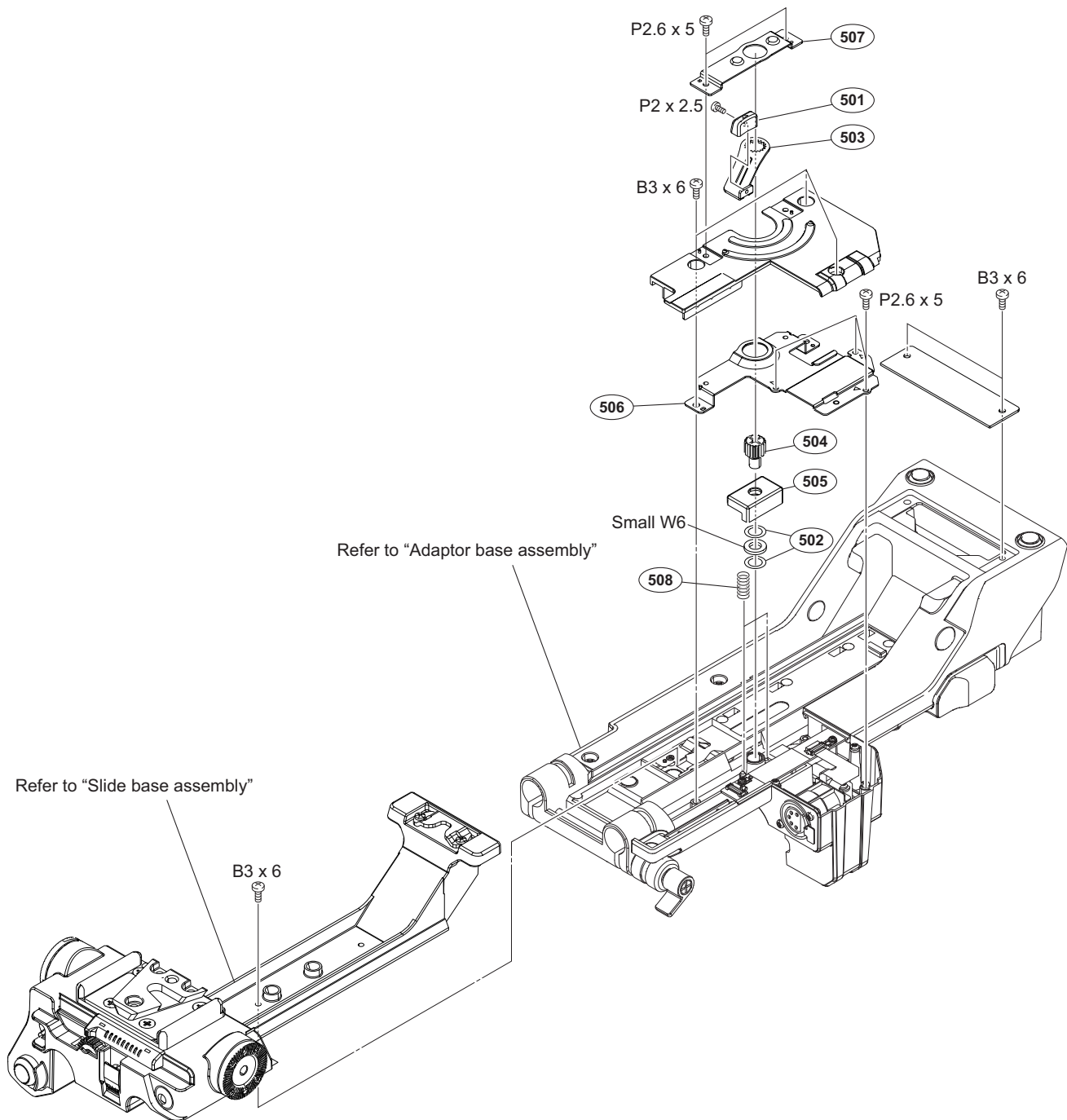
No.	Part No.	SP Description
301	A-2066-364-A	s MOUNTED CIRCUIT BOARD, HP-173
302	A-2066-366-A	s MOUNTED CIRCUIT BOARD, SW-1659
303	A-2067-240-A	s MOUNTED CIRCUIT BOARD, AXM-56
304	1-970-644-11	s HARNESS, SUB (AXM-SW)
305	2-640-315-02	o SCREW (M2X5), SMALL, +P, SW
306	3-080-203-41	s SCREW(M2),LOCK ACE,P2 [P2X5]
307	3-061-234-01	s NUT (M6X0.5)
308	3-748-142-01	s COVER,CONNECTOR
309	3-796-985-02	s CUSHION,DROP PROTECTION
310	3-796-986-02	s KNOB,SLIDE SW
311	3-796-993-01	s CUSION DROP PROTECTION TOGGLE
312	3-870-177-01	s BRACKET (SW)
	7-627-556-58	s SCREW +P 2.6X5

BA Case Assembly



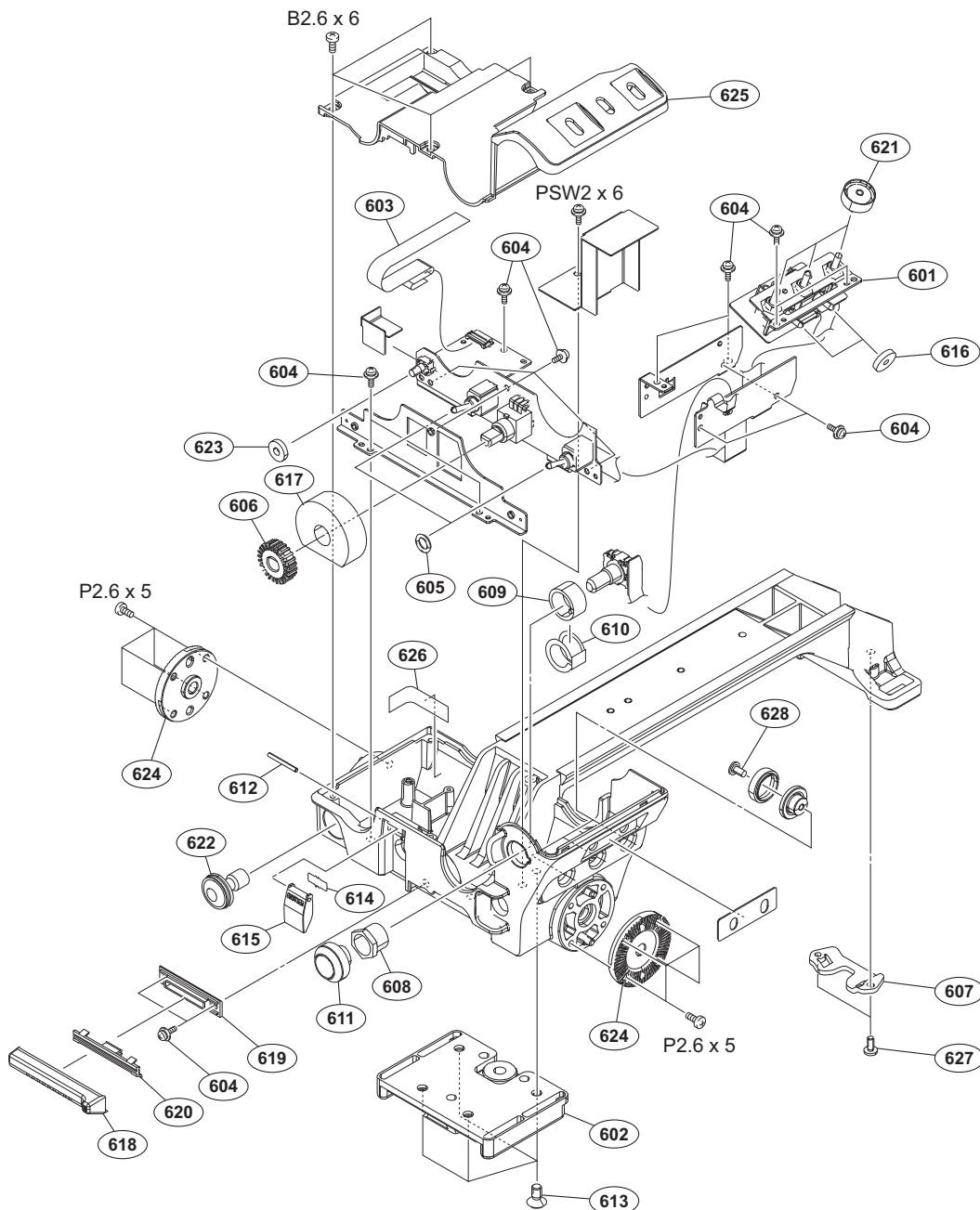
No.	Part No.	SP Description	No.	Part No.	SP Description
401	A-1959-427-A	s DOCKING ASSY	417	4-458-418-01	s SHEET, INSULATING
402	A-2066-367-A	s MOUNTED CIRCUIT BOARD, DC-178	418	 4-559-408-01	s COVER, ADAPTOR
403	A-2067-625-A	s BA CASE ASSY	419	4-564-074-01	s FIXING TAPE
404	A-8279-939-G	s MOUNT, V(B) ASSY			
405	1-969-467-11	s HARNESS, SUB (ADPT-DCIN)		7-621-773-95	s SCREW +B 2.6X6
406	1-969-468-11	s HARNESS, SUB (ADPT-DCOUT)		7-627-553-28	s SCREW, PRECISION +P 2X2.5
407	1-969-469-11	s HARNESS, SUB (ADPT-BATT)		7-627-556-58	s SCREW +P 2.6X5
408	1-970-645-11	s HARNESS, SUB (LIGHT_BA)			
409	2-640-315-02	o SCREW (M2X5), SMALL, +P, SW			
410	3-614-293-01	o SPPRING, COMPRESSION			
411	3-826-988-02	s LOCK, SLIDE			
412	3-614-295-03	s LEVER, RELEASE(B)			
413	3-614-298-01	o KNOB, RELEASE LEVER			
414	3-697-119-03	s RETAINER			
415	4-458-407-01	s GUARD, CN			
416	4-458-417-02	s COVER, CN			

Base Block



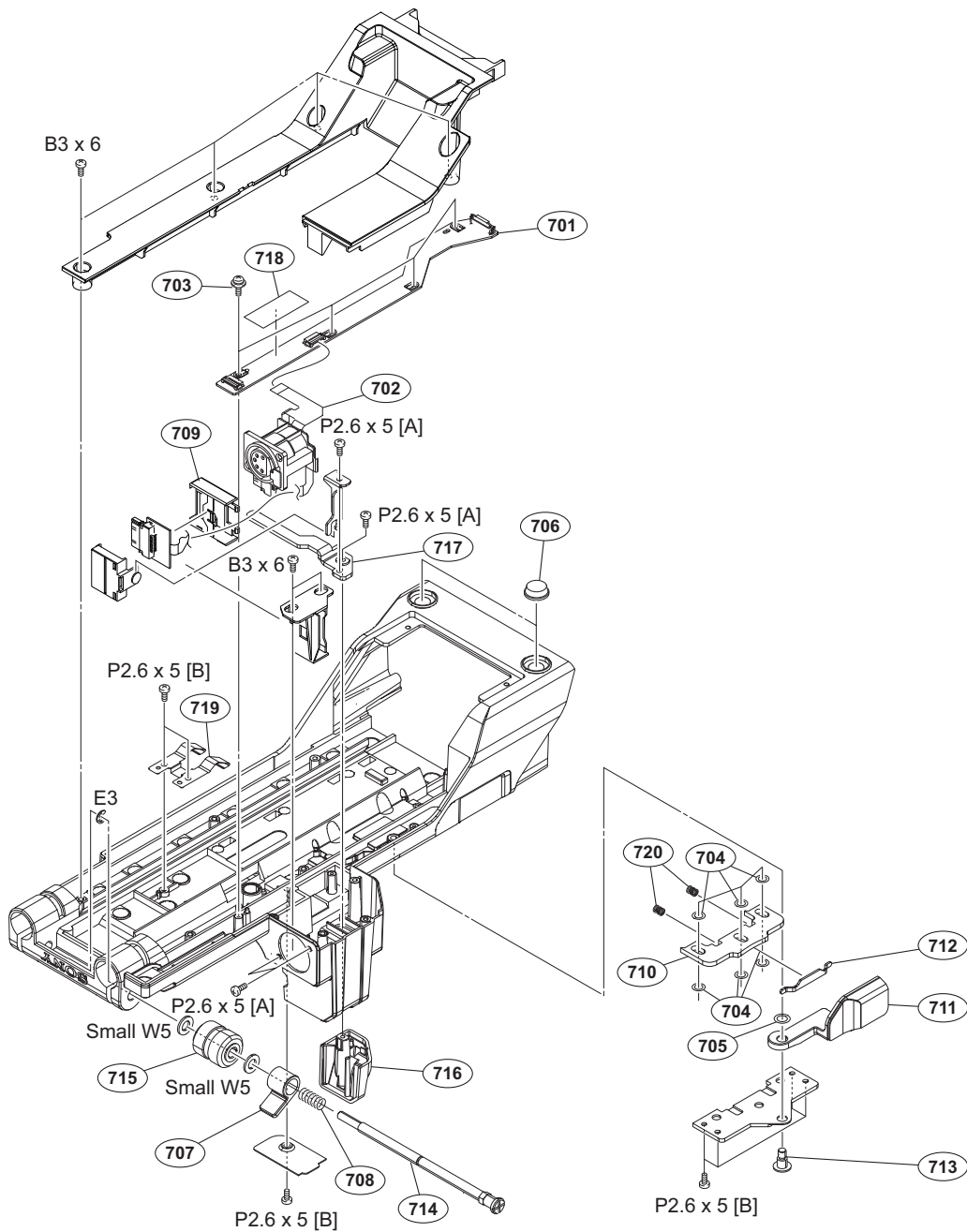
No.	Part No.	SP Description
501	3-680-952-02 o	KNOB, RELEASE LEVER
502	3-701-445-11 s	WASHER, 7
503	4-558-542-01 s	SLIDE LOCK LEVER
504	4-558-544-01 s	SLIDE LOCK SCREW
505	4-558-545-01 s	SLIDE LOCK BLOCK
506	4-564-512-01 s	SLIDE LOCK BASE
507	4-564-513-01 s	SLIDE LOCK RETAINER
508	4-568-285-01 s	SPRING, SLIDE LOCK
	7-621-775-20 s	SCREW +P 2.6X5
	7-627-553-28 s	SCREW, PRECISION +P 2X2.5
	7-682-547-09 s	SCREW +B 3X6
	7-688-006-01 s	W 6, SMALL

Slide Base Assembly



No.	Part No.	SP Description	No.	Part No.	SP Description
601	A-2067-337-A s	MOUNTED CIRCUIT BOARD, SW-1656	618	3-854-361-01 s	GUARD VOLUME FRONT
602	A-8279-993-D s	SHOE (D) ASSY, V	619	3-854-362-01 s	HOLDER GUARD
603	1-848-789-11 s	FLEXIBLE FLAT CABLE (15 CORE)	620	3-854-363-01 s	SLIDER
604	2-640-315-02 o	SCREW (M2X5), SMALL, +P, SW	621	3-870-137-02 s	CAP, DROP PROTECTION
605	3-312-823-02 s	PACKING, KNOB	622	3-986-632-02 s	BUTTON, VTR START
606	3-624-135-01 s	KNOB, VR (AUDIO)	623	3-990-897-01 s	CUSHION REC (SW)
607	3-626-781-03 s	STOPPER	624	4-546-932-01 s	RING, ROSSETTE
608	3-629-446-04 s	SLEEVE (ENC2)	625	4-563-991-01 s	FRONT COVER
609	3-629-447-03 o	SLEEVE (ENC1)	626	4-564-074-01 s	FIXING TAPE
610	3-647-917-02 s	PLATE, EARTH	627	3-364-941-12 s	SCREW (+B) (2.6X5), NYLOK
611	3-692-111-02 s	KNOB, RE	628	4-567-940-01 s	LIGHT GUIDE
612	3-703-357-05 s	PIN, PARALLEL (DIA. 1.6X8)			
613	3-729-072-02 s	SCREW, +K (4X8)			
614	3-742-066-11 o	SPRING, SHUTTER			
615	3-742-067-06 s	LID, SHUTTER			
616	3-797-016-01 s	CUSHION VOLUME AUDIO			
617	3-797-080-01 s	DROP PROTECTION (MIC VR)			
				7-621-773-95 s	SCREW +B 2.6X6
				7-627-556-58 s	SCREW +P 2.6X5
				7-628-000-05 s	+PSW 2X6

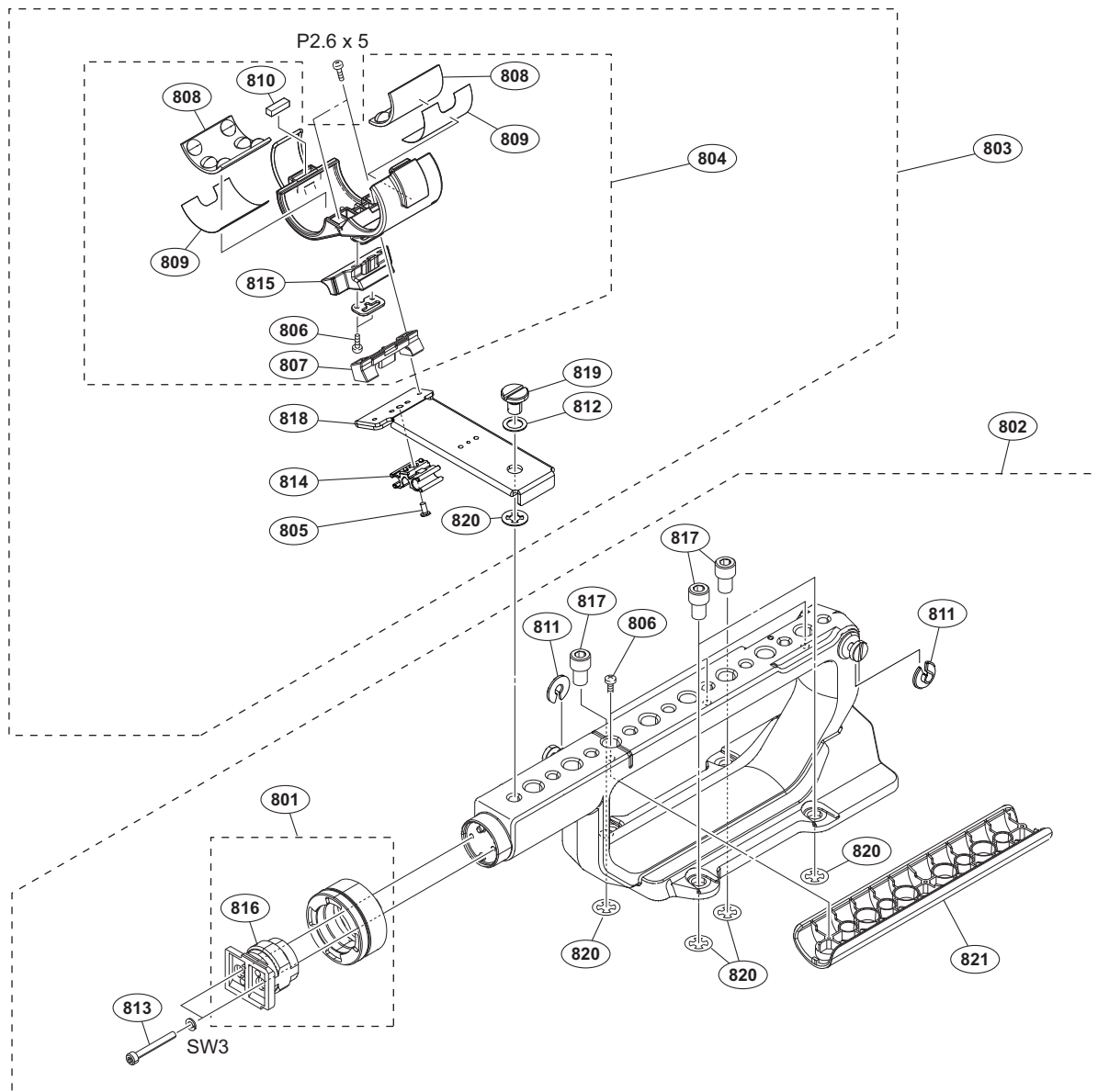
Adaptor Base Assembly



No.	Part No.	SP Description
701	A-2066-361-A s	MOUNTED CIRCUIT BOARD, CN-3759
702	A-2066-365-A s	MOUNTED CIRCUIT BOARD, CN-3758
703	2-640-315-02 o	SCREW (M2X5), SMALL, +P, SW
704	3-701-441-01 s	WASHER
705	3-701-443-11 s	WASHER
706	3-723-097-01 o	FOOT, RUBBER
707	4-458-121-01 s	LEVER, INSIDE
708	4-458-124-11 s	SPRING, ROD LOCK
709	4-558-546-01 s	AU CONNECTOR CASE
710	4-563-963-01 s	PLATE, LOCK
711	4-563-964-01 s	LEVER, LOCK
712	4-563-972-01 s	SPRING, SLIDE PUSH
713	4-563-974-02 s	SHAFT, LEVER CENTER
714	4-563-992-01 s	ROD FIXING SHAFT
715	4-564-061-01 s	ROD FIXING SLEEVE
716	4-564-070-01 s	KNOB, AUDIO SLIDE
717	4-564-071-01 s	BLOCKER, SLIDE PLATE

No.	Part No.	SP Description
718	4-565-480-01 s	TAPE, PROTECTION
719	4-567-085-01 s	SPRING, ADAPTOR BASE
720	4-568-285-01 s	SPRING, SLIDE LOCK
721	4-568-285-01 s	SPRING, SLIDE LOCK
722	4-568-285-01 s	SPRING, SLIDE LOCK
723	4-568-285-01 s	SPRING, SLIDE LOCK
724	4-568-285-01 s	SPRING, SLIDE LOCK
725	4-568-285-01 s	SPRING, SLIDE LOCK
726	4-568-285-01 s	SPRING, SLIDE LOCK
727	4-568-285-01 s	SPRING, SLIDE LOCK
728	4-568-285-01 s	SPRING, SLIDE LOCK
729	4-568-285-01 s	SPRING, SLIDE LOCK
730	4-568-285-01 s	SPRING, SLIDE LOCK
731	4-568-285-01 s	SPRING, SLIDE LOCK
732	4-568-285-01 s	SPRING, SLIDE LOCK
733	4-568-285-01 s	SPRING, SLIDE LOCK
734	4-568-285-01 s	SPRING, SLIDE LOCK
735	4-568-285-01 s	SPRING, SLIDE LOCK
736	4-568-285-01 s	SPRING, SLIDE LOCK
737	4-568-285-01 s	SPRING, SLIDE LOCK
738	4-568-285-01 s	SPRING, SLIDE LOCK
739	4-568-285-01 s	SPRING, SLIDE LOCK
740	4-568-285-01 s	SPRING, SLIDE LOCK
741	4-568-285-01 s	SPRING, SLIDE LOCK
742	4-568-285-01 s	SPRING, SLIDE LOCK
743	4-568-285-01 s	SPRING, SLIDE LOCK
744	4-568-285-01 s	SPRING, SLIDE LOCK
745	4-568-285-01 s	SPRING, SLIDE LOCK
746	4-568-285-01 s	SPRING, SLIDE LOCK
747	4-568-285-01 s	SPRING, SLIDE LOCK
748	4-568-285-01 s	SPRING, SLIDE LOCK
749	4-568-285-01 s	SPRING, SLIDE LOCK
750	4-568-285-01 s	SPRING, SLIDE LOCK
751	4-568-285-01 s	SPRING, SLIDE LOCK
752	4-568-285-01 s	SPRING, SLIDE LOCK
753	4-568-285-01 s	SPRING, SLIDE LOCK
754	4-568-285-01 s	SPRING, SLIDE LOCK
755	4-568-285-01 s	SPRING, SLIDE LOCK
756	4-568-285-01 s	SPRING, SLIDE LOCK
757	4-568-285-01 s	SPRING, SLIDE LOCK
758	4-568-285-01 s	SPRING, SLIDE LOCK
759	4-568-285-01 s	SPRING, SLIDE LOCK
760	4-568-285-01 s	SPRING, SLIDE LOCK
761	4-568-285-01 s	SPRING, SLIDE LOCK
762	4-568-285-01 s	SPRING, SLIDE LOCK
763	4-568-285-01 s	SPRING, SLIDE LOCK
764	4-568-285-01 s	SPRING, SLIDE LOCK
765	4-568-285-01 s	SPRING, SLIDE LOCK
766	4-568-285-01 s	SPRING, SLIDE LOCK
767	4-568-285-01 s	SPRING, SLIDE LOCK
768	4-568-285-01 s	SPRING, SLIDE LOCK
769	4-568-285-01 s	SPRING, SLIDE LOCK
770	4-568-285-01 s	SPRING, SLIDE LOCK
771	4-568-285-01 s	SPRING, SLIDE LOCK
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781	4-568-285-01 s	SPRING, SLIDE LOCK
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785	4-568-285-01 s	SPRING, SLIDE LOCK
786	4-568-285-01 s	SPRING, SLIDE LOCK
787	4-568-285-01 s	SPRING, SLIDE LOCK
788	4-568-285-01 s	SPRING, SLIDE LOCK
789	4-568-285-01 s	SPRING, SLIDE LOCK
790	4-568-285-01 s	SPRING, SLIDE LOCK
791	4-568-285-01 s	SPRING, SLIDE LOCK
792	4-568-285-01 s	SPRING, SLIDE LOCK
793	4-568-285-01 s	SPRING, SLIDE LOCK
794	4-568-285-01 s	SPRING, SLIDE LOCK
795	4-568-285-01 s	SPRING, SLIDE LOCK
796	4-568-285-01 s	SPRING, SLIDE LOCK
797	4-568-285-01 s	SPRING, SLIDE LOCK
798	4-568-285-01 s	SPRING, SLIDE LOCK
799	4-568-285-01 s	SPRING, SLIDE LOCK
800	4-568-285-01 s	SPRING, SLIDE LOCK

Handle Assembly, Microphone Assembly



No.	Part No.	SP Description	No.	Part No.	SP Description
801	A-2065-043-A	s SHOE ASSY,VF	821	4-564-067-01	s HANDLE COVER (SA)
802	A-2068-023-A	s HANDLE ASSY (SA)		7-621-775-20	SCREW +P 2.6X5
803	A-2068-182-A	s MICROPHONE HOLDER ASSY (SA)		7-623-208-22	s SW 3,TYPE 2
804	X-2342-570-5	s HOLDER (93000) ASSY,MICROPHONE			
805	2-630-005-31	s SCREW(M2),NEW TRUSTER,P2			
806	3-080-206-21	s SCREW, TAPPING, P2			
807	3-284-075-03	s COVER,MICROPHONE HOLDER RUBBER			
808	3-284-080-02	s RUBBER, MICROPHONE			
809	3-284-081-11	s SHEET, RUBBER ADHESIVE			
810	3-284-621-11	s CUSHION, MICROPHONE HOLDER			
811	3-654-615-02	s COLLAR, SUSPENSION			
812	3-701-445-11	s WASHER, 7			
813	3-711-765-01	s BOLT (M3), HEXAGON SOCKET			
814	3-870-272-02	s CLAMP, CABLE			
815	4-119-861-01	s RUBBER (93000), HOLDER			
816	4-558-057-01	s SHOE,SLIDE			
817	4-562-604-01	s BOLT(1/4-20 UNC),HOLE HEXAGON			
818	4-563-374-01	s MICROPHONE HOLDER BASE			
819	4-563-965-01	s SCREW , TRIPOD SA			
820	4-563-966-01	s SHEET, SCREW STOPPER			

3-3. Supplied Accessories

Q'ty	Part No.	SP Description
1pc	A-2067-625-A s	BA CASE ASSY
1pc	A-2068-023-A s	HANDLE ASSY (SA)
1pc	A-2068-182-A s	MICROPHONE HOLDER ASSY (SA)
1pc	A-6772-374-C s	BELT ASSY, SHOULDER
2pcs	4-458-485-02 s	15X250 ROD
1pc	4-458-622-01 s	MEASURE HOOK
1pc	 4-564-733-01 s	OPERATION MANUAL

Q'ty	Part No.	SP Description
1pc	A-2068-183-A s	VF TERMINAL PROTECTOR ASSY(SA) (The following parts are included.)
1pc	3-669-595-01 s	WASHER (2), STOPPER
1pc	4-559-602-01 s	VF TERMINAL PROTECTOR
1pc	7-621-773-95 s	SCREW +B 2.6X6

Q'ty	Part No.	SP Description
1pc	A-2070-502-A s	PLATE ASSY, SLIDE SHOE (The following parts are included.)
1pc	4-563-962-01 s	PLATE, SLIDE SHOE
1pc	4-563-965-01 s	SCREW, TRIPOD SA
1pc	4-563-966-01 s	SHEET, SCREW STOPPER

Block Diagrams and Frame Wiring

The diagram illustrates the internal circuitry of a device, organized into several functional blocks:

- PMW-F55/F5:** Power Management section at the top left, showing connections for EXT_DC (+), BATTERY (+), ADAPTOR_TYPEID#0-3, and various control signals like (IF) 2 (EXT)_REC_TALLY, (EXT) 2 (IF)_BATT_SDA/SCL, and (EXT) 2 (IF)_REC_TRIGGER.
- RE-329:** A central processing block containing a microcontroller (IC100), a CPLD (IC107), a switch driver (IC108), and various power regulators (IC201, IC202, IC203). It also includes a switch (Q106, 107) and a power sense amp (IC109).
- DC-178:** A digital interface block at the top right, showing connections for EXT_DC (+), BATTERY (+), ADAPTOR_TYPEID#0-3, and various control signals like (IF) 2 (EXT)_REC_TALLY, (EXT) 2 (IF)_BATT_SDA/SCL, and (EXT) 2 (IF)_REC_TRIGGER.
- DIF-238:** A digital interface block in the middle, showing connections for (IF) 2 (EXT)_REC_TALLY, (EXT) 2 (IF)_BATT_SDA/SCL, and (EXT) 2 (IF)_REC_TRIGGER.
- SW-1656:** A switch and button section at the bottom left, showing connections for S003, S102, S104, S105, S106, S107, S108, S109, S110, S111, S112, S113, S114, S115, S116, S117, S118, S119, S120, S121, S122, S123, S124, S125, S126, S127, S128, S129, S130, S131, S132, S133, S134, S135, S136, S137, S138, S139, S140, S141, S142, S143, S144, S145, S146, S147, S148, S149, S150, S151, S152, S153, S154, S155, S156, S157, S158, S159, S160, S161, S162, S163, S164, S165, S166, S167, S168, S169, S170, S171, S172, S173, S174, S175, S176, S177, S178, S179, S180, S181, S182, S183, S184, S185, S186, S187, S188, S189, S190, S191, S192, S193, S194, S195, S196, S197, S198, S199, S200, S201, S202, S203, S204, S205, S206, S207, S208, S209, S210, S211, S212, S213, S214, S215, S216, S217, S218, S219, S220, S221, S222, S223, S224, S225, S226, S227, S228, S229, S230, S231, S232, S233, S234, S235, S236, S237, S238, S239, S240, S241, S242, S243, S244, S245, S246, S247, S248, S249, S250, S251, S252, S253, S254, S255, S256, S257, S258, S259, S260, S261, S262, S263, S264, S265, S266, S267, S268, S269, S270, S271, S272, S273, S274, S275, S276, S277, S278, S279, S280, S281, S282, S283, S284, S285, S286, S287, S288, S289, S290, S291, S292, S293, S294, S295, S296, S297, S298, S299, S300, S301, S302, S303, S304, S305, S306, S307, S308, S309, S310, S311, S312, S313, S314, S315, S316, S317, S318, S319, S320, S321, S322, S323, S324, S325, S326, S327, S328, S329, S330, S331, S332, S333, S334, S335, S336, S337, S338, S339, S340, S341, S342, S343, S344, S345, S346, S347, S348, S349, S350, S351, S352, S353, S354, S355, S356, S357, S358, S359, S360, S361, S362, S363, S364, S365, S366, S367, S368, S369, S370, S371, S372, S373, S374, S375, S376, S377, S378, S379, S380, S381, S382, S383, S384, S385, S386, S387, S388, S389, S390, S391, S392, S393, S394, S395, S396, S397, S398, S399, S400, S401, S402, S403, S404, S405, S406, S407, S408, S409, S410, S411, S412, S413, S414, S415, S416, S417, S418, S419, S420, S421, S422, S423, S424, S425, S426, S427, S428, S429, S430, S431, S432, S433, S434, S435, S436, S437, S438, S439, S440, S441, S442, S443, S444, S445, S446, S447, S448, S449, S450, S451, S452, S453, S454, S455, S456, S457, S458, S459, S460, S461, S462, S463, S464, S465, S466, S467, S468, S469, S470, S471, S472, S473, S474, S475, S476, S477, S478, S479, S480, S481, S482, S483, S484, S485, S486, S487, S488, S489, S490, S491, S492, S493, S494, S495, S496, S497, S498, S499, S500, S501, S502, S503, S504, S505, S506, S507, S508, S509, S510, S511, S512, S513, S514, S515, S516, S517, S518, S519, S520, S521, S522, S523, S524, S525, S526, S527, S528, S529, S530, S531, S532, S533, S534, S535, S536, S537, S538, S539, S540, S541, S542, S543, S544, S545, S546, S547, S548, S549, S550, S551, S552, S553, S554, S555, S556, S557, S558, S559, S560, S561, S562, S563, S564, S565, S566, S567, S568, S569, S570, S571, S572, S573, S574, S575, S576, S577, S578, S579, S580, S581, S582, S583, S584, S585, S586, S587, S588, S589, S590, S591, S592, S593, S594, S595, S596, S597, S598, S599, S600, S601, S602, S603, S604, S605, S606, S607, S608, S609, S610, S611, S612, S613, S614, S615, S616, S617, S618, S619, S620, S621, S622, S623, S624, S625, S626, S627, S628, S629, S630, S631, S632, S633, S634, S635, S636, S637, S638, S639, S640, S641, S642, S643, S644, S645, S646, S647, S648, S649, S650, S651, S652, S653, S654, S655, S656, S657, S658, S659, S660, S661, S662, S663, S664, S665, S666, S667, S668, S669, S670, S671, S672, S673, S674, S675, S676, S677, S678, S679, S680, S681, S682, S683, S684, S685, S686, S687, S688, S689, S690, S691, S692, S693, S694, S695, S696, S697, S698, S699, S700, S701, S702, S703, S704, S705, S706, S707, S708, S709, S710, S711, S712, S713, S714, S715, S716, S717, S718, S719, S720, S721, S722, S723, S724, S725, S726, S727, S728, S729, S730, S731, S732, S733, S734, S735, S736, S737, S738, S739, S740, S741, S742, S743, S744, S745, S746, S747, S748, S749, S750, S751, S752, S753, S754, S755, S756, S757, S758, S759, S760, S761, S762, S763, S764, S765, S766, S767, S768, S769, S770, S771, S772, S773, S774, S775, S776, S777, S778, S779, S780, S781, S782, S783, S784, S785, S786, S787, S788, S789, S790, S791, S792, S793, S794, S795, S796, S797, S798, S799, S800, S801, S802, S803,

Frame Wiring

