

SONY®

CAMERA SYSTEM ADAPTOR

CA4000

CAMERA POWER BOOST KIT

SKC-PB40

F65 ADAPTOR

SKC-4065

INSTALLATION MANUAL

1st Edition (Revised 1)

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.

Model Name	Serial No.
CA4000 (SY): LEMO Optical Fiber Connector	10001 and Higher
CA4000 (CED): LEMO Optical Fiber Connector	40001 and Higher
CA4000 (J): Tajimi Optical Fiber Connector	30001 and Higher

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION

The use of optical instruments with this product will increase eye hazard.

CLASS 1 LASER PRODUCT
LASER KLASSE 1 PRODUKT
LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

This Camera System Adaptor is classified as a CLASS 1 LASER PRODUCT.

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Manual Structure

Purpose of this manual

This manual is intended for use by trained system engineers and service engineers, and describes information on installing this unit.

Related manuals

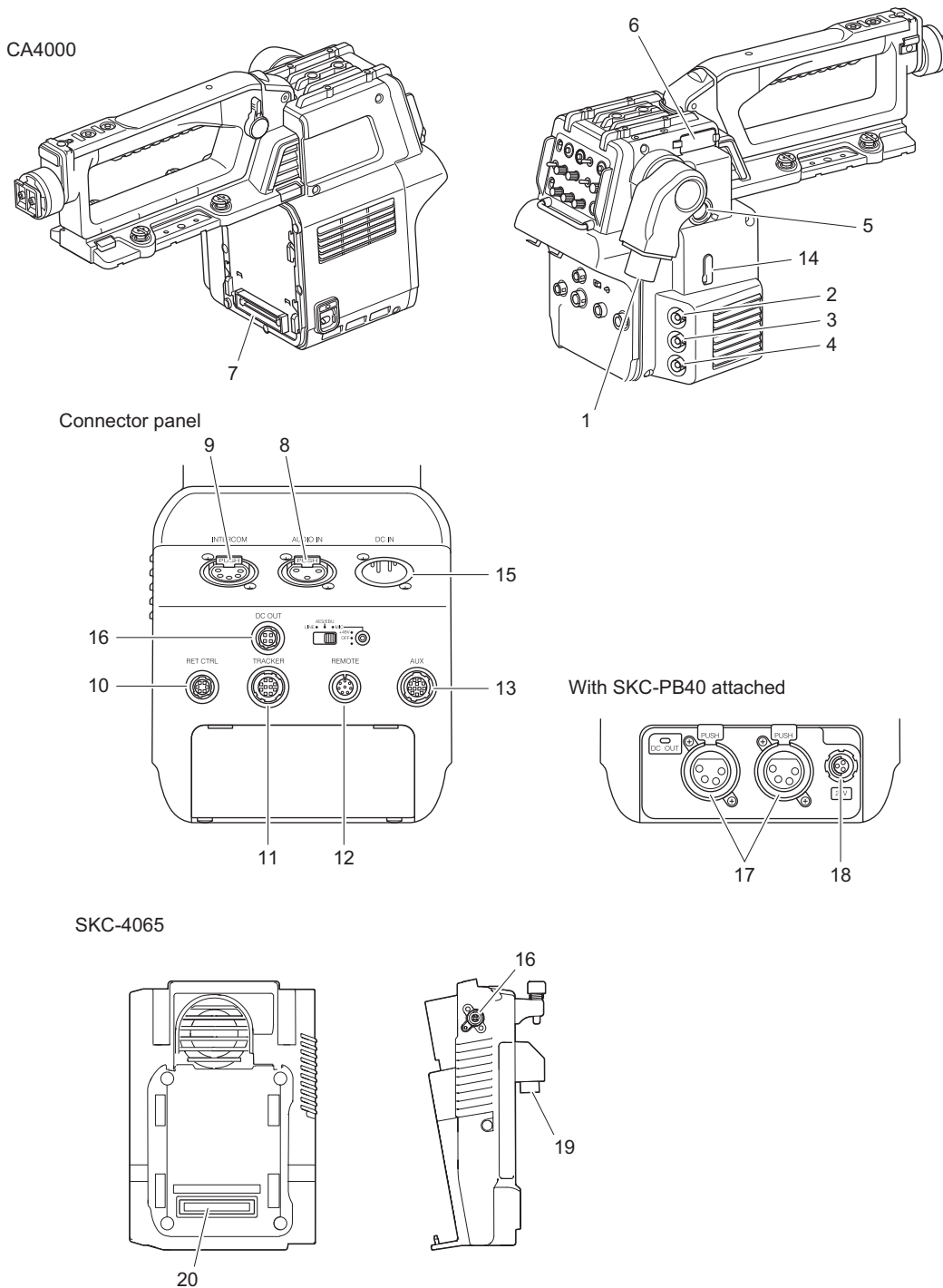
The following manual is provided for this unit in addition to this “Installation Manual”.

- Operation Guide (Supplied with this unit)
- Operation Manual CD-ROM (Supplied with this unit)
This manual contains information required to operate and use the unit.
- Service Manual (Available on request)
This manual describes service overview, replacement of main parts, and etc. of the unit to provide information required for block-level service.
- Factory Service Manual (Available on request)
Parts list, circuit diagram, and board layouts of the unit are included to provide information required for part-level service.

Section 1 Installation

1-1. Connectors and Cables

1-1-1. Connector Input/Output Signals



Input/Output Signals

1. BPU

10.692 Gbps/10.681319 Gbps serial

SY, CED: LEMO optical fiber connector
J: Tajimi optical fiber connector

2. PROMPTER1

BNC type 75 Ω , 1.0 V p-p, unbalanced

3. PROMPTER2/MONITOR

BNC type 75 Ω , 1.0 V p-p, unbalanced

4. SDI MONI

HD SDI signal

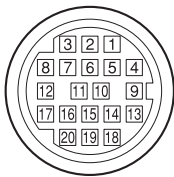
BNC type, SMPTE292M, 0.8 Vp-p, 75 Ω

1.485 Gbps/1.4835 Gbps

BTA-S004 compliant

5. VF-A

20-pin, Female

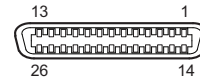


- External View -

No.	Signal	I/O	Specifications
1	S-DATA	IN/ OUT	TTL level
2	NC	—	No connection
3	NC	—	No connection
4	SCK	OUT	TTL level
5	NC	—	No connection
6	NC	—	No connection
7	NC	—	No connection
8	G TALLY	OUT	ON : 5 V OFF : GND
9	NC	—	No connection
10	NC	—	No connection
11	NC	—	No connection
12	Y VIDEO	OUT	1.0 V p-p, $Z_o = 75 \Omega$
13	VIDEO GND	—	GND for VIDEO
14	Pb VIDEO	OUT	± 0.35 V p-p, $Z_o = 75 \Omega$
15	Pr VIDEO	OUT	± 0.35 V p-p, $Z_o = 75 \Omega$
16	NC	—	No connection
17	R TALLY	OUT	ON : 5 V OFF : GND
18	NC	—	No connection
19	UNREG GND	—	GND for UNREG
20	UNREG	OUT	+10.5 Vdc to +17 Vdc

6. VF-B

Rectangular, 26-pin

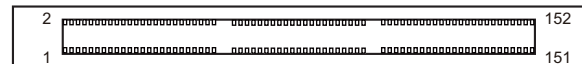


- External View -

No.	Signal	I/O	Specifications
1	SHIELD GND	—	GND
2 to 4	LVDS 1- to 3-	OUT	LVDS (-) output
5	LVDS CLK-	OUT	LVDS clock (-) output
6, 7	LVDS 4-, 5-	OUT	LVDS (-) output
8	VF ON	IN	VF ON signal input
9	SDAT	I/O	Serial data signal input/ output
10, 11	UNREG	OUT	UNREG output
12 to 14	GND	—	GND
15 to 17	LVDS 1+ to 3+	OUT	LVDS (+) output
18	LVDS CLK+	OUT	LVDS clock (+) output
19, 20	LVDS 4+, 5+	OUT	LVDS (+) output
21	SRX	OUT	SDI signal output
22	SCLK	OUT	Serial data clock signal output
23, 24	UNREG	OUT	UNREG output
25	GND	—	GND
26	SHIELD GND	—	GND

7. Camera mount

152-pin, Female



- External View -

No.	Signal	I/O	Specifications
1	ADAPTOR_ DET0_X	—	—
2	ADAPTOR_ DET2_X	—	GND
3	ADAPTOR_ TYPEID#0	—	GND
4	ADAPTOR_ TYPEID#1	—	GND

Continued

No.	Signal	I/O	Specifications
5	ADAPTOR_ TYPEID#2	—	GND
6	ADAPTOR_ TYPEID#3	—	No connection
7	BATTERY_ ID#0	—	GND
8	BATTERY_ ID#1	—	GND
9	(IF)2(EXT)_ ADAPTOR_ READY	OUT	—
10	(IF)2(EXT)_ EXT_INT_X	OUT	—
11	(EXT)2(IF)_ POWER_ GOOD	IN	—
12	GND	—	GND
13	(EXT)2(IF)_ POWER_ON	IN	—
14	(EXT)2(IF)_ BATT_SDA	I/O	—
15	BATT_ID	—	—
16	(EXT)2(IF)_ BATT_SCL	IN	—
17 to 18	GND	—	GND
19	(IF)2(EXT)_ REC_TRIG- GER	OUT	—
20	(EXT)2(IF)_ UART_TX	IN	—
21	(EXT)2(IF)_ REC_TALLY	IN	—
22	(IF)2(EXT)_ UART_RX	OUT	—
23 to 24	GND	—	GND
25 to 30	—	—	No connection
31 to 32	GND	—	GND
33 to 36	—	—	No connection
37 to 38	GND	—	GND
39 to 42	—	—	No connection

Continued

No.	Signal	I/O	Specifications
43 to 44	GND	—	GND
45 to 48	—	—	No connection
49 to 50	GND	—	GND
51	ID	IN	GND/OPEN
52	GND	—	GND
53 to 62	—	—	No connection
63	GND	—	GND
64 to 68	—	—	No connection
69 to 70	GND	—	GND
71 to 74	—	—	No connection
75 to 76	GND	—	GND
77 to 78	—	—	No connection
79	SDA	I/O	—
80	SCL	OUT	—
81 to 82	GND	—	GND
83 to 86	—	—	No connection
87 to 88	GND	—	GND
89 to 92	—	—	No connection
93 to 96	GND	—	GND
97	(EXT)2(IF)_ GOLGO_ TX3_P	IN	—
98	(IF)2(EXT)_ GOLGO_ RX3_P	—	No connection
99	(EXT)2(IF)_ GOLGO_ TX3_N	IN	—

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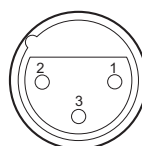
No.	Signal	I/O	Specifications
100	(IF)2(EXT)_ GOLGO_ RX3_N	—	No connection
101 to 102	GND	—	GND
103	(EXT)2(IF)_ GOLGO_ TX2_P	IN	—
104	(IF)2(EXT)_ GOLGO_ RX2_P	—	No connection
105	(EXT)2(IF)_ GOLGO_ TX2_N	IN	—
106	(IF)2(EXT)_ GOLGO_ RX2_N	—	No connection
107 to 108	GND	—	GND
109	(EXT)2(IF)_ GOLGO_ TX1_P	IN	—
110	(IF)2(EXT)_ GOLGO_ RX1_P	OUT	—
111	(EXT)2(IF)_ GOLGO_ TX1_N	IN	—
112	(IF)2(EXT)_ GOLGO_ RX1_N	OUT	—
113 to 114	GND	—	GND
115	(EXT)2(IF)_ GOLGO_ TX0_P	IN	—
116	(IF)2(EXT)_ GOLGO_ RX0_P	OUT	—
117	(EXT)2(IF)_ GOLGO_ TX0_N	IN	—
118	(IF)2(EXT)_ GOLGO_ RX0_N	OUT	—
119 to 120	GND	—	GND
121 to 124	—	—	No connection
125 to 126	GND	—	GND

Continued

No.	Signal	I/O	Specifications
127 to 130	—	—	No connection
131 to 132	GND	—	GND
133 to 135	—	—	No connection
136 to 137	GND	—	GND
138 to 140	—	—	No connection
141 to 142	GND	—	GND
143	BODY_DE- TECT	—	—
144	ADAPTOR_ DET1_X	—	—
145 to 147	BATTERY(+)	OUT	+11 to 17 Vdc
148 to 150	EXT_DC(+)	OUT	+11 to 17 Vdc
151	BATTERY(-)	—	Ground for BATTERY(-)
152	EXT_DC(-)	—	Ground for DC(-)

8. AUDIO IN

XLR 3-pin, Female



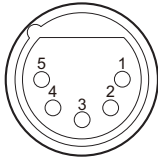
- External View -

(0 dBu = 0.775 Vrms)

No.	Signal	I/O	Specifications
1	AUDIO MIC (G)	—	-60 dBu, -50 dBu, -40 dBu, -30 dBu, -20 dBu, LINE (0 dBu) selectable, balanced
2	AUDIO MIC (X)	IN	
3	AUDIO MIC (Y)	IN	

9. INTERCOM

XLR 5-pin, Female



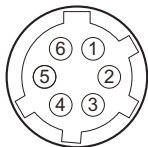
- External View -

(0 dBu = 0.775 V rms)

No.	Signal	I/O	Specifications
1	Intercom MIC (Y)	IN	- Carbon microphone: -20 dBu, unbalance - Dynamic microphone: -60 dBu, balance/unbalance - Manual: -20/-40/-60 dBu, balance/unbalance
2	Intercom MIC (X)	IN	
3	GND	—	GND
4	Intercom Left	OUT	11 dBu (VR max, 250 Ω load)
5	Intercom Right	OUT	

10. RET CTRL

6-pin, Female

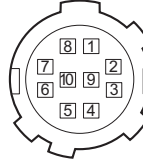


- External View -

No.	Signal	I/O	Specifications
1	INCOM MIC-ON/OFF: for SY, J ENG: for CED	IN	$Z_i \geq 10\text{ K}\Omega$ ON: GND OFF: OPEN
2	NC: for SY, J PROD: for CED	IN	- SY, J: No connection - CED: $Z_i \geq 10\text{ K}\Omega$ ON: GND OFF: OPEN
3	GND	—	—
4	RET 3-ON/OFF	IN	$Z_i \geq 10\text{ K}\Omega$ ON: GND OFF: OPEN
5	RET 1-ON/OFF	IN	
6	RET 2-ON/OFF	IN	

11. TRACKER

10-pin, Female

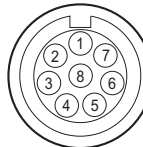


- External View -

No.	Signal	I/O	Specifications
1	TRACKER LEFT	OUT	TRACKER RECEIVE/PGM -20 dBu unbalanced
2	GND (TALK)	—	GND for TRACKER TALK
3	GND (RECEIVE/PGM/TALLY)	—	GND for RECEIVE/PGM/TALLY
4	TRACKER RIGHT	OUT	TRACKER RECEIVE/PGM -20 dBu unbalanced
5	UNREG	OUT	+12 Vdc (+10.5 Vdc to +17 Vdc)
6	GND (UNREG)	—	GND for UNREG
7	TRACKER TALK (X)	IN	TRACKER TALK 0 dBu / -20 dBu, High impedance balanced
8	TRACKER TALK (Y)	IN	
9	G TALLY	OUT	ON: GND OFF: High impedance (Open collector)
10	R TALLY	OUT	ON: GND OFF: High impedance (Open collector)

12. REMOTE

8-pin, Female



- External View -

No.	Signal	I/O	Specifications
1	- TX (X): for RCP - TX1 (+): for TRUNK (RS-422A)	OUT	- SERIAL DATA OUT: for RCP - TRUNK DATA OUT: for RS-422A
2	- TX (Y): for RCP - TX1 (-): for TRUNK (RS-422A)	OUT	
3	- RX (X): for RCP - RX1 (+): for TRUNK (RS-422A)	IN	- SERIAL DATA IN: for RCP - TRUNK DATA IN: for RS-422A
4	- RX (Y): for RCP - RX1 (-): for TRUNK (RS-422A)	IN	
5	TX-GND	—	GND for TX
6	UNREG-OUT	OUT	UNREG +10.5 Vdc to +17 Vdc, 200 mA (max)
7	UNREG-GND	—	GND for UNREG-OUT
8	RCP-PIX: for RCP	OUT	75 Ω , 1.0 V p-p (SD Video)
	CHASSIS GND: for TRUNK (RS-422A)	—	CHASSIS GND

13. AUX (LENS)

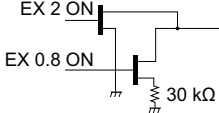
12-pin, Female



- External View -

No.	Signal	I/O	Specifications
1	RET VIDEO ENABLE	IN	- ENABLE: 0 V - DISABLE: +5 V or OPEN
2	VTR CTL	IN	- ENABLE: 0 V - DISABLE: +5 V or OPEN
3	GND	—	GND for UNREG
4	SERVO MA/AT	OUT	- AUTO: +5 V - MANU: 0 V or OPEN
5	IRIS POSITION	OUT	+3.4 V (F16) to +6.2 V (F2.8)
6	UNREG	OUT	+10.5 Vdc to +17 Vdc

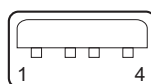
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No.	Signal	I/O	Specifications
7	IRIS POSITION	IN	+3.4 V (F16) to +6.2 V (F2.8)
8	IRIS AT/MA	OUT	- AUTO IRIS: 0 V - MANUAL IRIS: +5 V
9	EXTENDER ON/OFF	IN	- EX 2 ON: GND - EX 0.8 ON: 30 kΩ to GND - OFF: OPEN 
10	ZOOM POSITION	IN	- WIDE: 2 V - TELE: 7 V
11	FOCUS POSI (LENS RX)	IN	∞: 7 V - min.: 2 V
12	FOCUS POSI (LENS TX)	OUT	—

14. USB

USB (Series A), 4-pin

Signal standard: USB standard Ver. 2.0

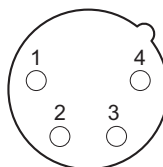


- External View -

No.	Signal	I/O	Specifications
1	USB_VBUS	—	VBUS
2	DATA (-)	IN/OUT	Data (-) input/output
3	DATA (+)	IN/OUT	Data (+) input/output
4	GND	—	GND

15. DC IN

XLR 4-pin, Male



- External View -

No.	Signal	I/O	Specifications
1	EXT_DC (C)	—	GND for DC (+)
2	NC	—	No connection
3	NC	—	No connection
4	EXT_DC (H)	IN	+10.5 Vdc to +17 Vdc

16. DC OUT

4-pin, Female

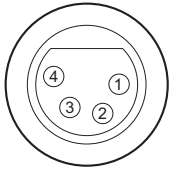


- External View -

No.	Signal	I/O	Specifications
1	UNREG GND	—	GND for UNREG-OUT
2	NC	—	No connection
3	NC	—	No connection
4	UNREG	OUT	+10.5 Vdc to +17 Vdc, 500 mA (max)

17. DC OUT1/2

XLR 4-pin, Female

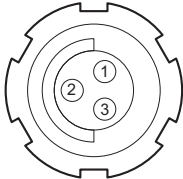


- External View -

No.	Signal	I/O	Specifications
1	GND	—	GND for DC-OUT
2	NC	—	No connection
3	NC	—	No connection
4	DC-OUT	OUT	+14 Vdc

18. DC OUT (24 V)

3-pin, Female



- External View -

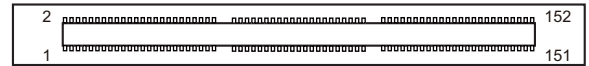
No.	Signal	I/O	Specifications
1	GND	—	GND for DC-OUT
2	DC-OUT	OUT	+24 Vdc
3	NC	—	No connection

19. F65 connection composite optical fiber

Electronic 12-pin, optical 8-line

20. CA4000 connection

152-pin, Male



- External View -

No.	Signal	I/O	Specifications
1	ADAPTOR_DET0_X	—	No connection
2	ADAPTOR_DET2_X	—	No connection
3	ADAPTOR_TYPEID#0	—	No connection
4	ADAPTOR_TYPEID#1	—	No connection
5	ADAPTOR_TYPEID#2	—	No connection
6	ADAPTOR_TYPEID#3	—	No connection
7	BATTERY_ID#0	—	No connection
8	BATTERY_ID#1	—	No connection
9	(IF)2(EXT)_ADAPTOR_READY	—	No connection
10	(IF)2(EXT)_EXT_INT_X	—	No connection
11	(EXT)2(IF)_POWER_GOOD	OUT	—
12	GND	—	GND
13	(EXT)2(IF)_POWER_ON	OUT	—
14	(EXT)2(IF)_BATT_SDA	—	No connection
15	BATT_ID	—	No connection
16	(EXT)2(IF)_BATT_SCL	—	No connection
17 to 18	GND	—	GND
19	(IF)2(EXT)_REC_TRIGGER	—	No connection
20	(EXT)2(IF)_UART_TX	OUT	—
21	(EXT)2(IF)_REC_TALLY	—	No connection
22	(IF)2(EXT)_UART_RX	IN	—
23 to 24	GND	—	GND

Continued

No.	Signal	I/O	Specifications
25 to 30	—	—	No connection
31 to 32	GND	—	GND
33 to 36	—	—	No connection
37 to 38	GND	—	GND
39 to 42	—	—	No connection
43 to 44	GND	—	GND
45 to 48	—	—	No connection
49 to 50	GND	—	GND
51	ID	IN	GND/OPEN
52	GND	—	GND
53 to 62	—	—	No connection
63	GND	—	GND
64 to 68	—	—	No connection
69 to 70	GND	—	GND
71 to 74	—	—	No connection
75 to 76	GND	—	GND
77 to 78	—	—	No connection
79	SDA	I/O	—
80	SCL	OUT	—
81 to 82	GND	—	GND
83 to 86	—	—	No connection
87 to 88	GND	—	GND

Continued

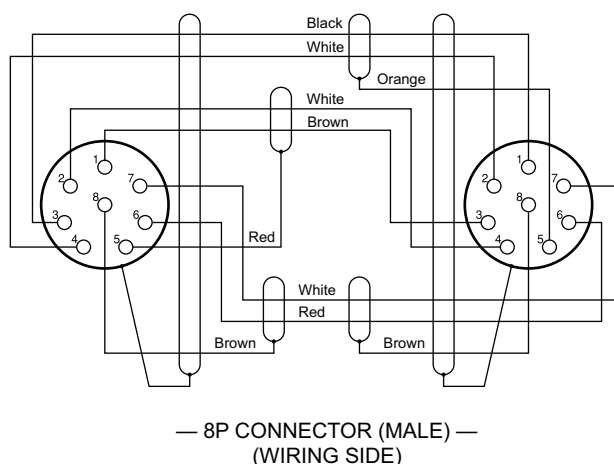
No.	Signal	I/O	Specifications
89 to 92	—	—	No connection
93 to 96	GND	—	GND
97	(EXT)2(IF)_ GOLGO_ TX3_P	OUT	—
98	(IF)2(EXT)_ GOLGO_ RX3_P	—	No connection
99	(EXT)2(IF)_ GOLGO_ TX3_N	OUT	—
100	(IF)2(EXT)_ GOLGO_ RX3_N	—	No connection
101 to 102	GND	—	GND
103	(EXT)2(IF)_ GOLGO_ TX2_P	OUT	—
104	(IF)2(EXT)_ GOLGO_ RX2_P	—	No connection
105	(EXT)2(IF)_ GOLGO_ TX2_N	OUT	—
106	(IF)2(EXT)_ GOLGO_ RX2_N	—	No connection
107 to 108	GND	—	GND
109	(EXT)2(IF)_ GOLGO_ TX1_P	OUT	—
110	(IF)2(EXT)_ GOLGO_ RX1_P	IN	—
111	(EXT)2(IF)_ GOLGO_ TX1_N	OUT	—
112	(IF)2(EXT)_ GOLGO_ RX1_N	IN	—
113 to 114	GND	—	GND
115	(EXT)2(IF)_ GOLGO_ TX0_P	OUT	—
116	(IF)2(EXT)_ GOLGO_ RX0_P	IN	—

Continued

No.	Signal	I/O	Specifications
117	(EXT)2(IF)_ GOLGO_ TX0_N	OUT	—
118	(IF)2(EXT)_ GOLGO_ RX0_N	IN	—
119 to 120	GND	—	GND
121 to 124	—	—	No connection
125 to 126	GND	—	GND
127 to 130	—	—	No connection
131 to 132	GND	—	GND
133 to 135	—	—	No connection
136 to 137	GND	—	GND
138 to 140	—	—	No connection
141 to 142	GND	—	GND
143	BODY_DE- TECT	—	—
144	ADAPTOR_ DET1_X	—	No connection
145 to 147	BATTERY(+)	—	No connection
148 to 150	EXT_DC(+)	IN	+11 to 17 Vdc
151	BATTERY(-)	—	No connection
152	EXT_DC(-)	—	Ground for DC(-)

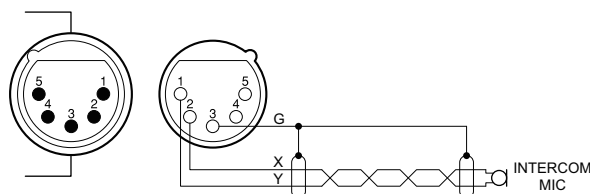
1-1-2. Wiring Diagrams for Cables

CCA-5 Cable (for REMOTE connector)

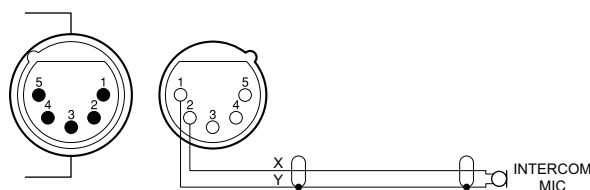


INTERCOM MIC Cable

1. Balance (HEAD SET menu UNBAL: OFF)



2. Unbalance (HEAD SET menu UNBAL: ON)



1-1-3. Connection Connectors/Cables

Connection made with the connector panels during installation or service, should be made with the connectors/complete cable assemblies specified in the following list, or equivalent parts.

Connector Name	Connector/Cable
- PROMPTER1 - PROMPTER2/ MONITOR - SDI MONI (BNC type)	Plug, BNC (Part No.: 1-569-370-12) or 5C-FBcoaxial cable/ Recommendation made by Fujikura

Continued

Connector Name	Connector/Cable
AUDIO IN (XLR type 3-pin, Female)	XLR, 3-Pin Male (Part No.: 1-508-084-00) or ITT Cannon XLR-3-12C or equivalent
RET CTRL (6-pin, Female)	Plug, 6-Pin Male (Part No.: 1-560-078-00) or HIROSE HR10-7PA-6P or equivalent
DC OUT (4-pin, Female)	Plug, 4-Pin Male (Part No.: 1-566-425-11) or HIROSE HR10A-7P-4P or equivalent
INTERCOM (XLR type 5-pin, Female)	XLR, 5-Pin Male (Part No.: 1-508-370-11) or ITT Cannon XLR-5-12C or equivalent
DC IN (XLR type 4-pin, Male)	XLR, 4-Pin Female (Part No.: 1-508-362-00) or ITT Cannon XLR-4-11C or equivalent or connection cord (Part No.: 1-551-577-00) (Supplied with AC-550)
REMOTE (8-pin, Female)	- Plug, 8-Pin Male (Part No.: 1-766-848-11) or CCA-5 cable assembly (CCA-5-10 (10 m)/CCA-5-3 (3 m)) (optional)*1*2 - REMOTE cable (Part No.: 1-783-372-11) (Supplied with RM-B170, 10 m) *1*2*3
TRACKER (10-pin, Female)	Connector, Round Type 10-Pin (Part No.: 1-506-522-12) or HIROSE HR10A-10P-10P or equivalent

1-1-4. Note in Connecting BPU Connector

It is recommendable to clean the optical contact portions mentioned below before connecting this unit to the BPU (baseband processor unit).

- BPU connector of this unit
- CAMERA connector of the baseband processor unit
- Optical/Electrical cable

For details on a cleaning method, refer to the service manual.

1-1-5. Note in Connecting F65 Connection Composite Optical Fiber

It is recommendable to clean the optical contact portions mentioned below before connecting this unit installed with SKC-4065 to the F65.

- F65 connection composite optical fiber connector of this unit
- Recorder connector of the F65

For details on a cleaning method, refer to the operation guide of SKC-4065 and the operation manual of F65.

*1: If using a cable of length different from a standard product, contact your local Sony Sales Office/Service Center.

*2: The pin 8 of CCA-5 cable is GND (ground). The pin 8 of REMOTE cable is not GND (ground).

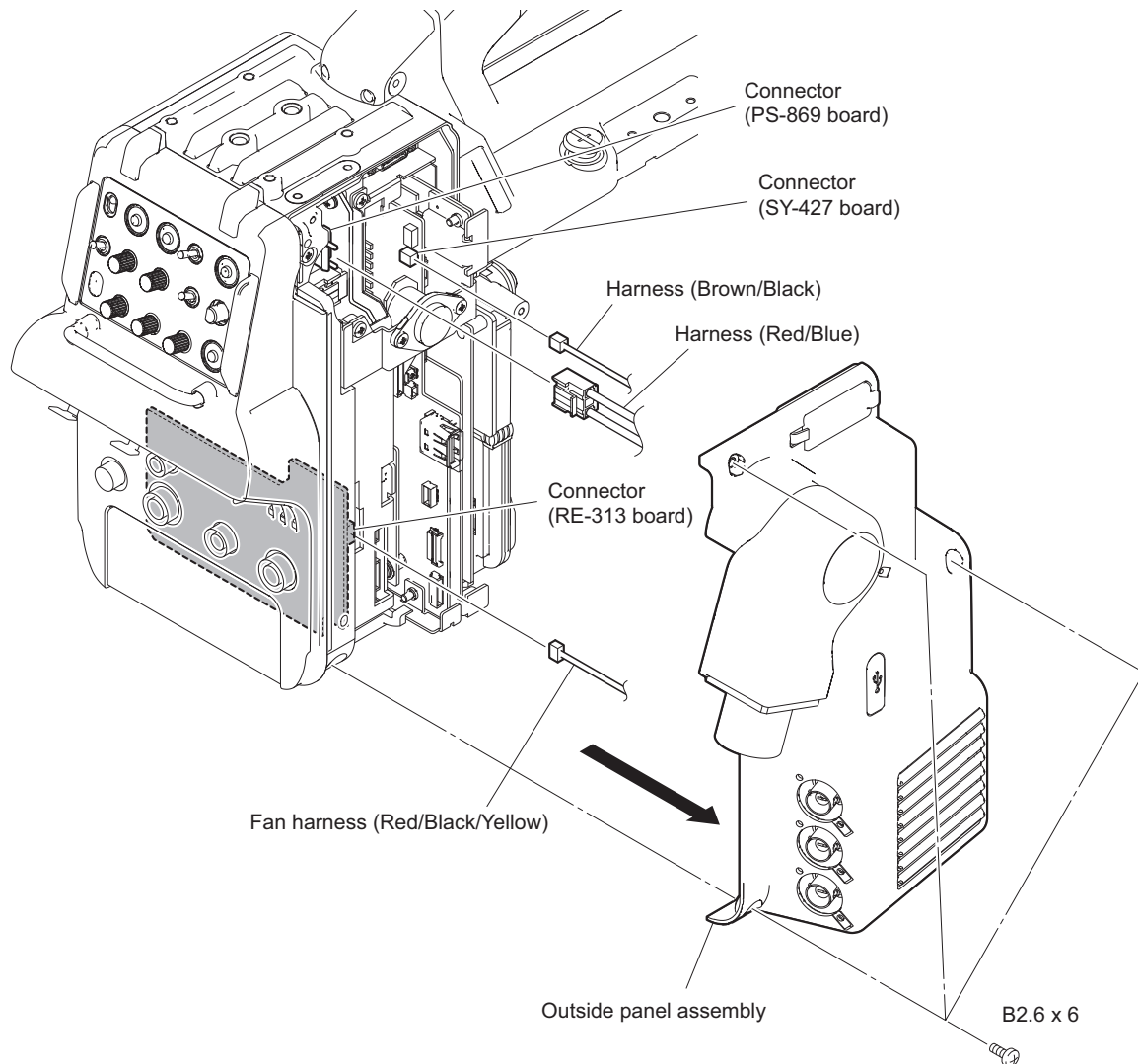
*3: Use of REMOTE cable enables to monitor video signals. (The pin 8 is available for the video signal line.) The down-converted SD signal is output.

1-2. Installing the SKC-PB40

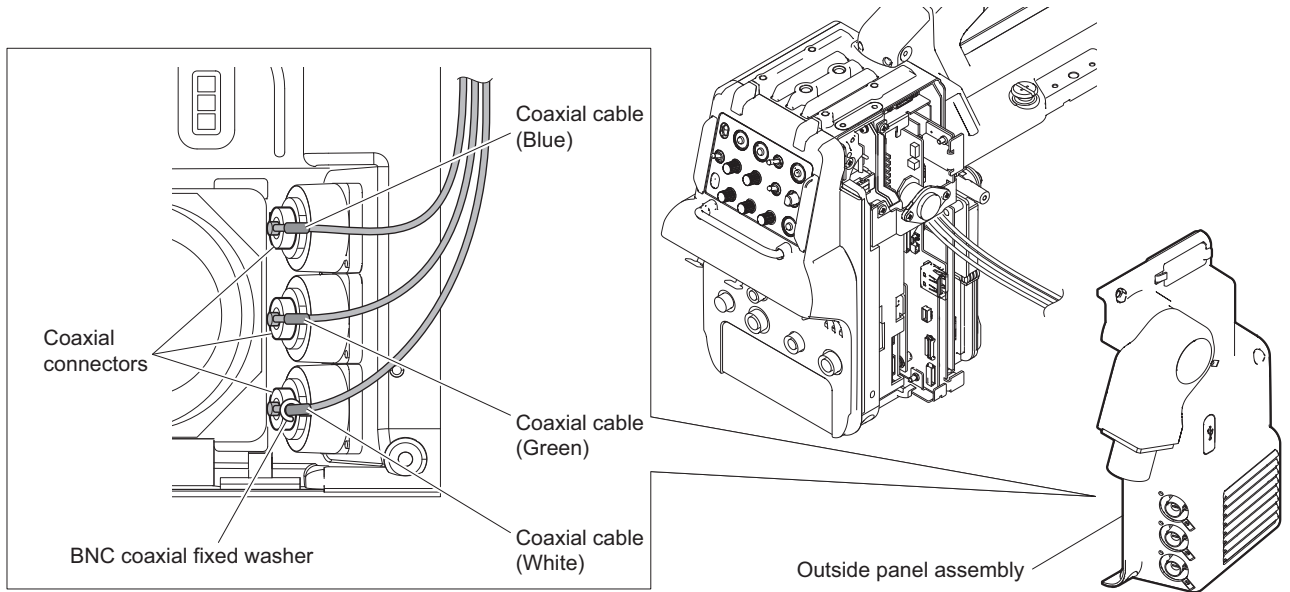
1-2-1. Removing Rear Panel Assembly

Procedure

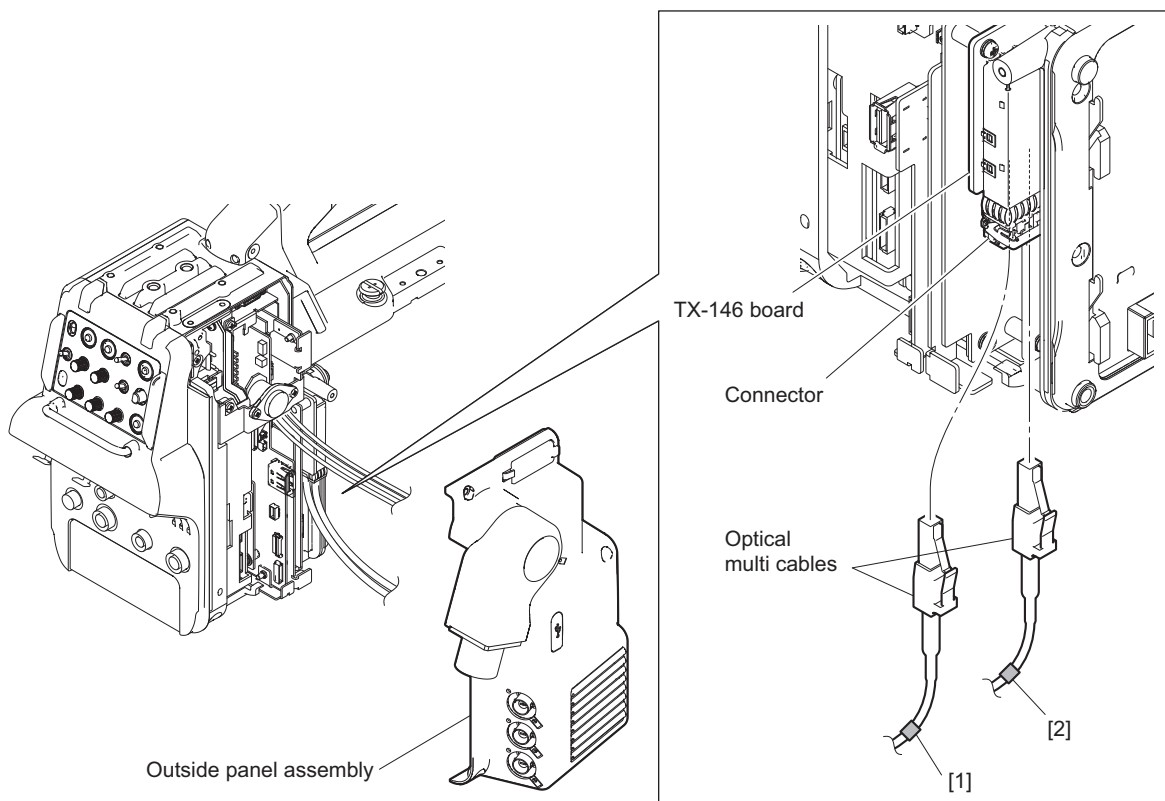
1. Remove the three screws to detach the outside panel assembly in the direction of the arrow.
2. Disconnect the harness (red/blue) from the connector on the PS-869 board.
3. Disconnect the harness (brown/black) from the connector on the SY-427 board.
4. Disconnect the fan harness (red/black/yellow) from the connector on the RE-313 board.



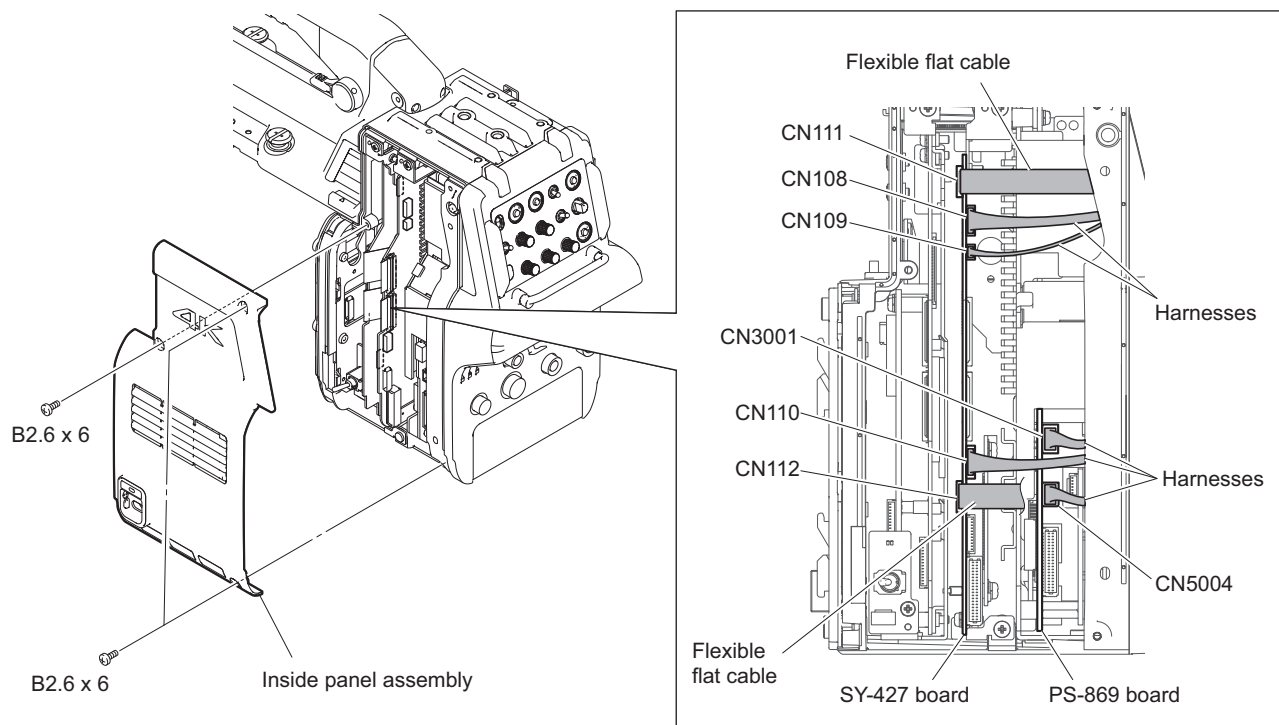
5. Release the coaxial cable (white) from the BNC coaxial fixed washer.
6. Disconnect the three coaxial cables from the three coaxial connectors.



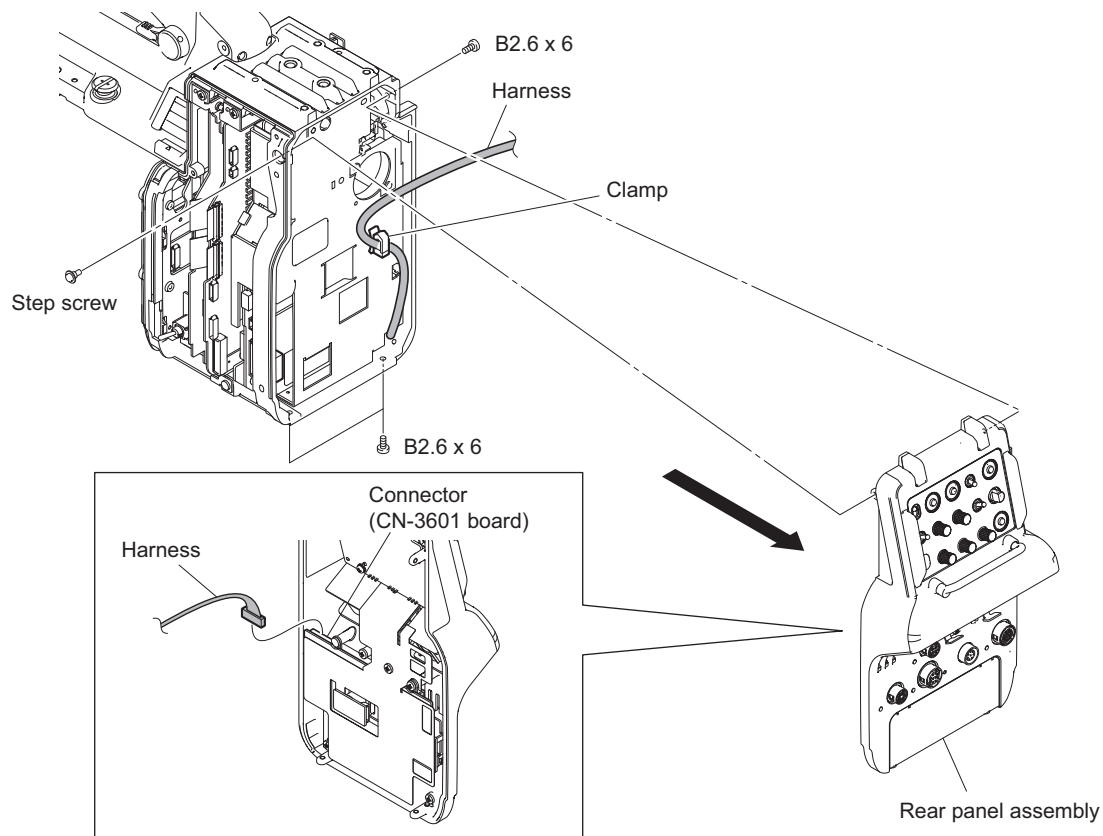
7. Disconnect the two optical multi cables from the connector on the TX-146 board and remove the outside panel assembly.



8. Remove the three screws to detach the inside panel assembly.
9. Disconnect the two flexible flat cables and the three harnesses from the five connectors on the SY-427 board.
10. Disconnect the two harnesses from the two connectors on the PS-869 board.



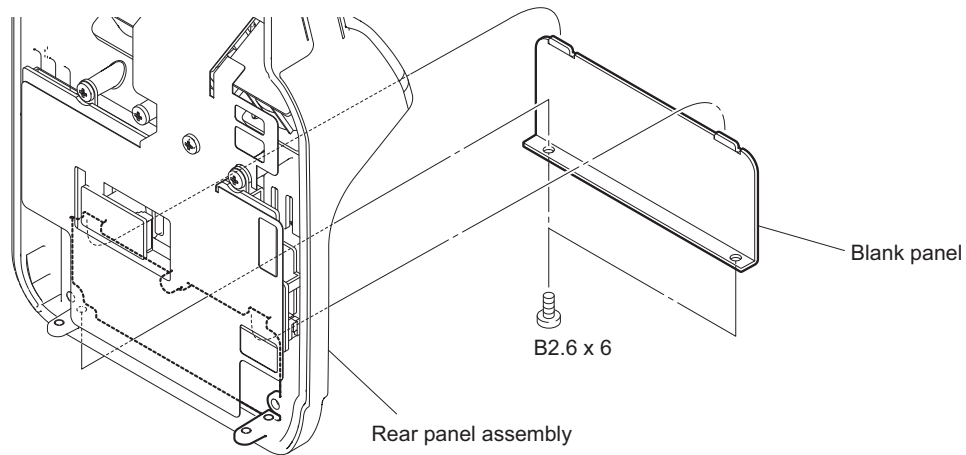
11. Remove the step screw and the three screws (B2.6 x 6) and then pull out the rear panel assembly in the direction of the arrow.
12. Open the clamp and release the harness.
13. Disconnect the harness from the connector on the CN-3601 board and remove the rear panel assembly.



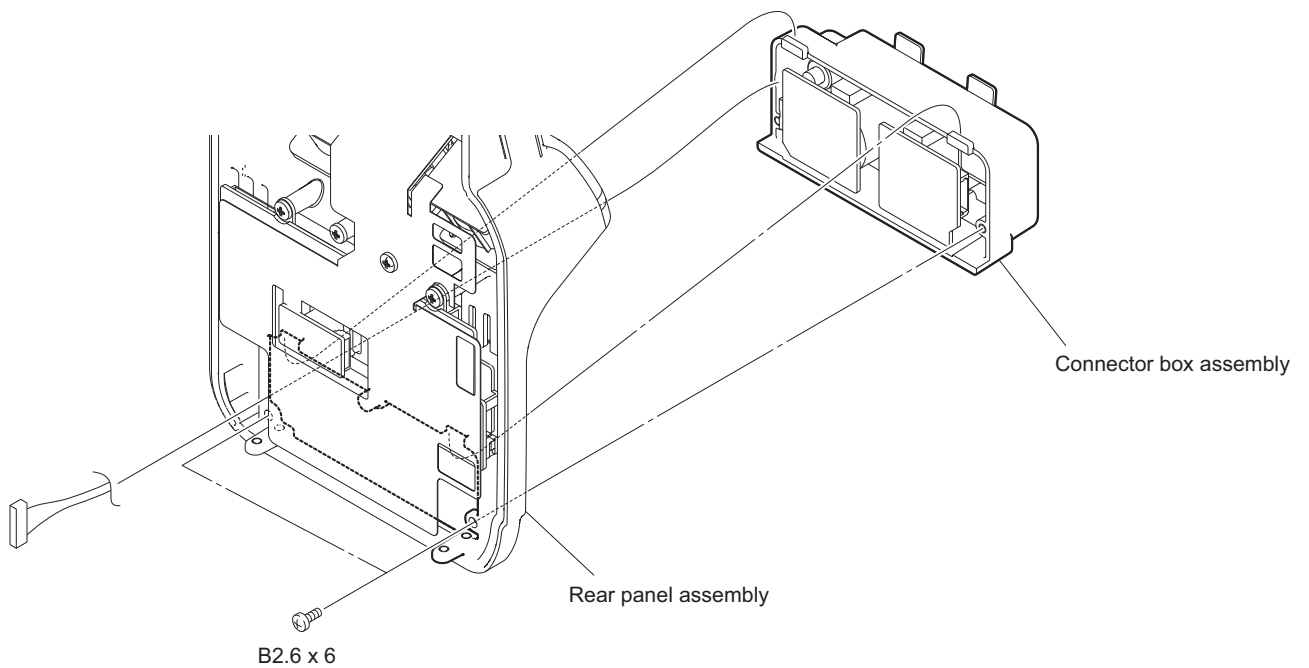
1-2-2. Installing the Connector Box Assembly

Procedure

1. Remove the two screws to detach the blank panel.



2. Secure the connector box assembly with the two screws.



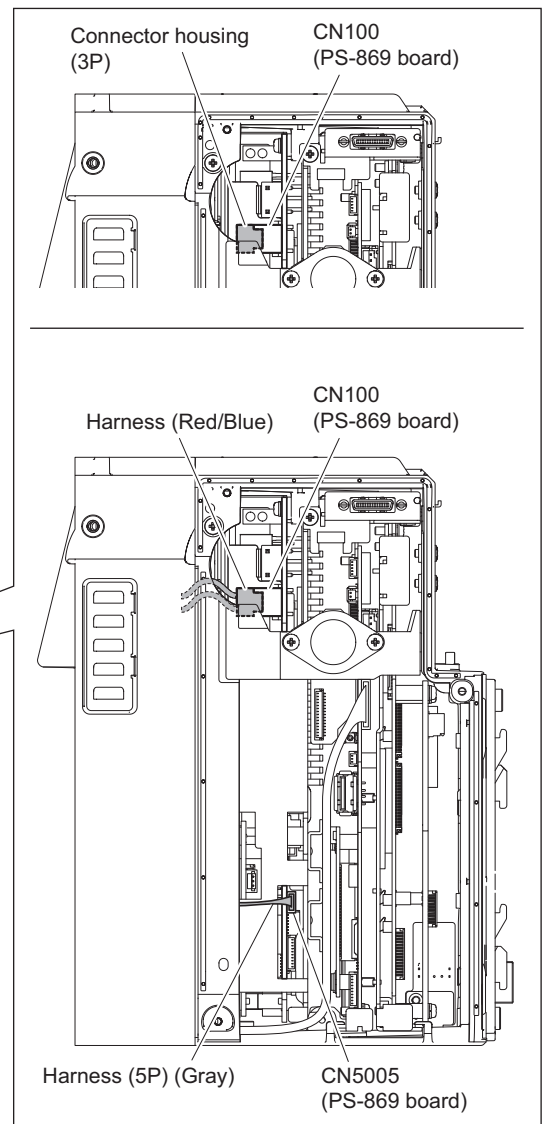
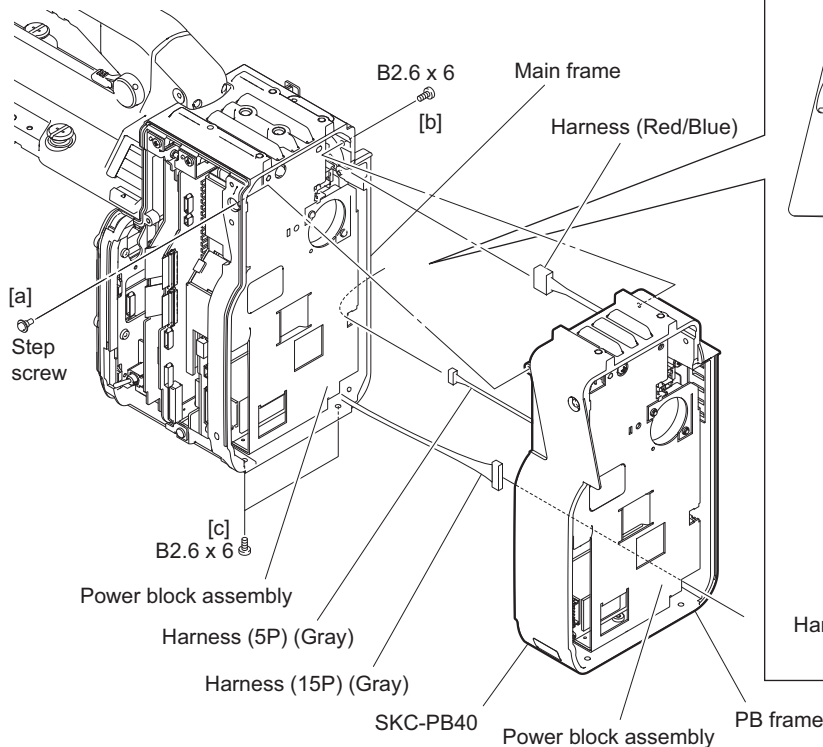
1-2-3. Installing Rear Panel Assembly

Procedure

1. Disconnect the connector housing (3P) from the connector (CN100) on the PS-869 board.
2. Connect the harness (red/blue) to the connector (CN100) on the PS-869 board.
3. Pass the harness (5P) (gray) from the SKC-PB40 between the main frame and the power block assembly and then put out it to the outside face.
4. Pass the harness (15P) (gray) from the CA4000 between the PB frame and the power block assembly and then put out it to the rear side face.
5. Secure the SKC-PB40 with the step screw and the three screws (B2.6 x 6).

Note

- Tighten screws in the order of [a], [b], and [c].
 - Be careful not to catch the harness (red/blue) with SKC-PB40.
6. Connect the harness (5P) (gray) to the connector (CN5005) on the PS-869 board.

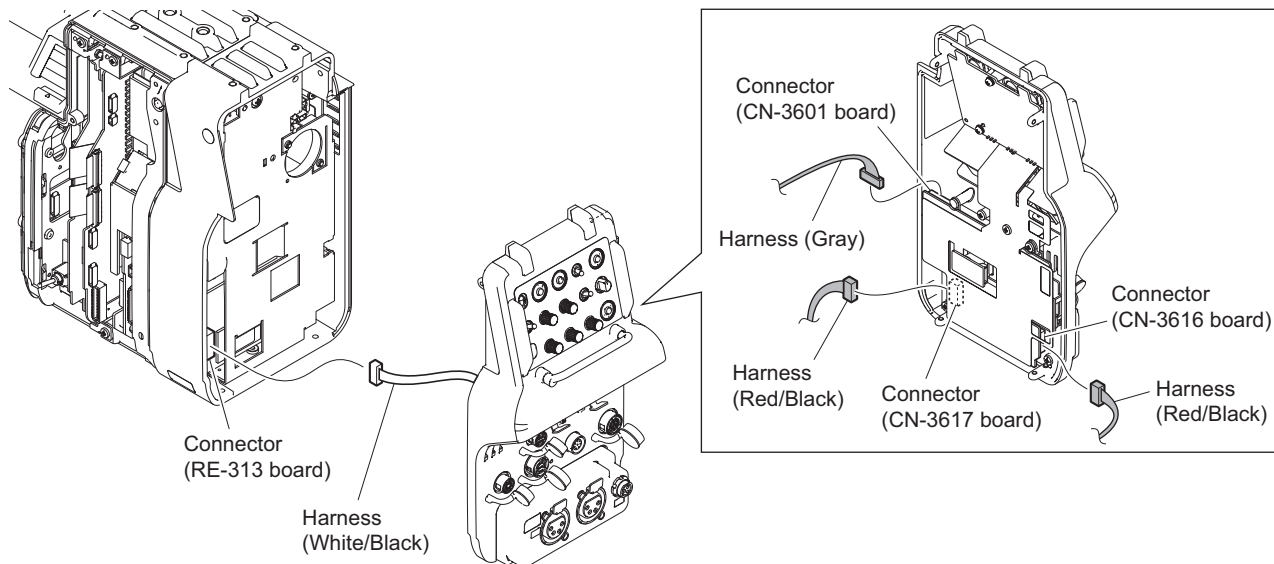


7. Connect the three harnesses to the connectors on the CN-3601 board, CN-3616 board, and CN-3617 board.

Note

Be sure to connect the harness to the connector securely.

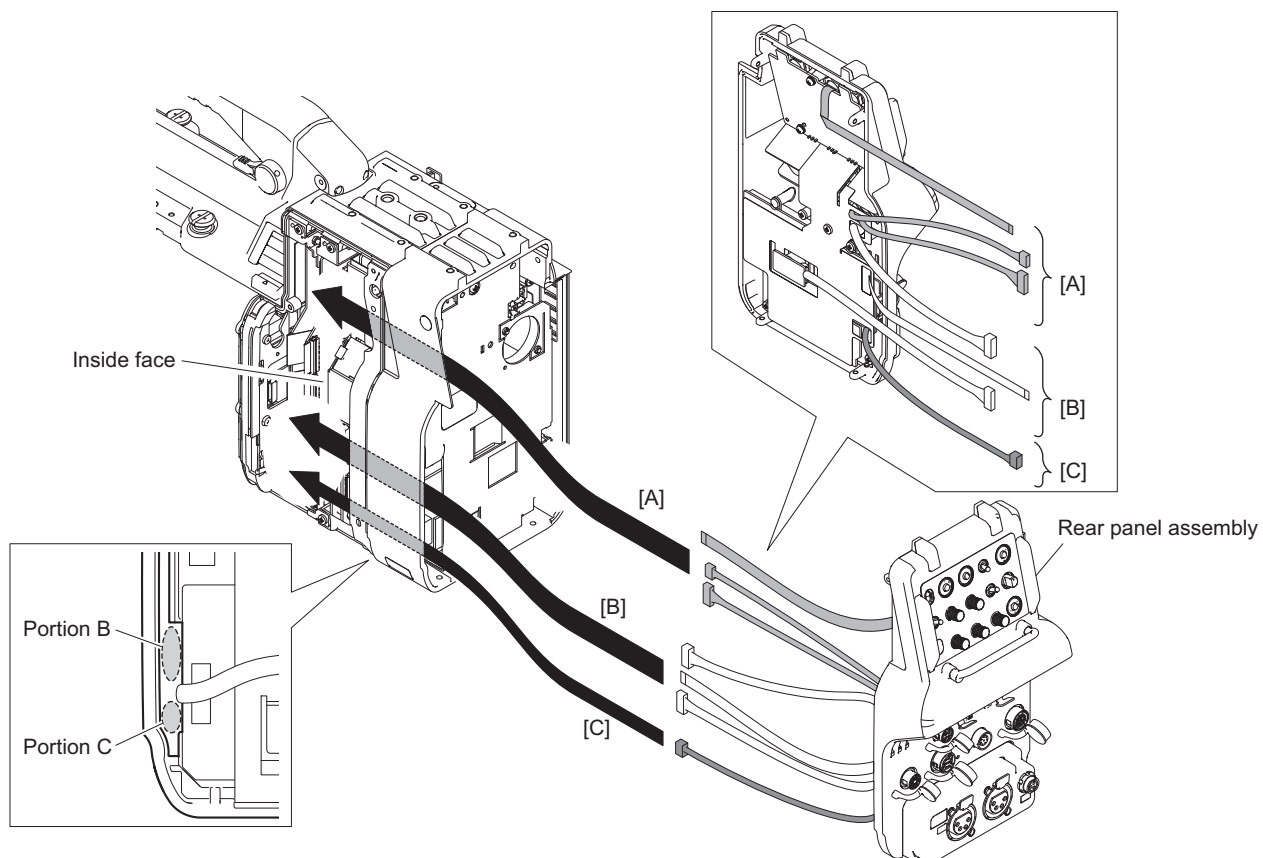
8. Connect the harness (white/black) to the connector on the RE-313 board.



9. Arrange the flexible flat cables and the harnesses from the rear panel assembly to the inside face as shown in the figure.

Note

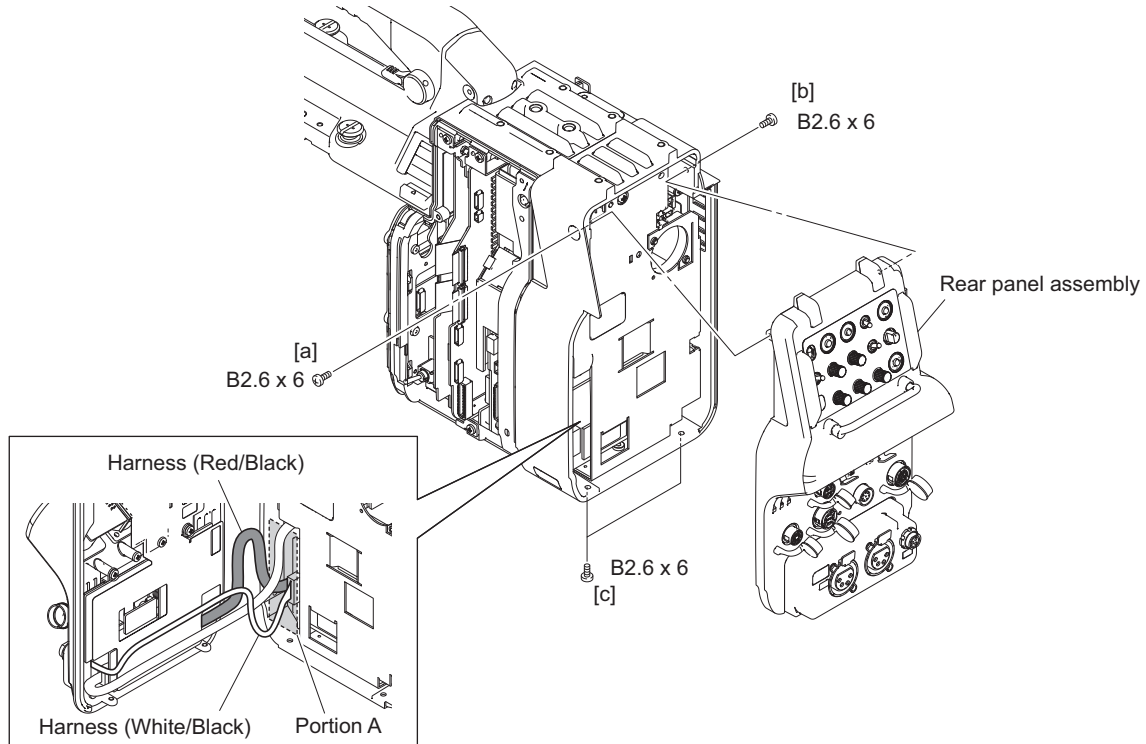
Pass the cable and the harness of [B] and [C] through the portions B and C respectively as shown below.



10. Secure the rear panel assembly with the four screws (B2.6 x 6).

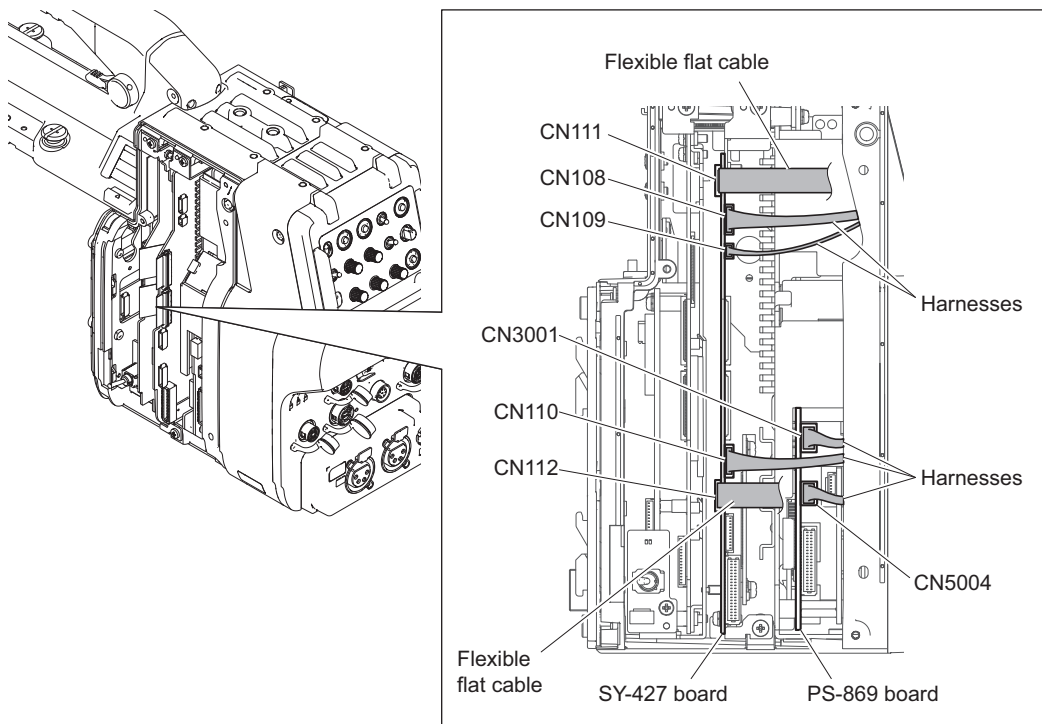
Note

- Arrange the harnesses as shown in the figure and push them into the portion A.
- Tighten screws in the order of [a], [b], and [c].

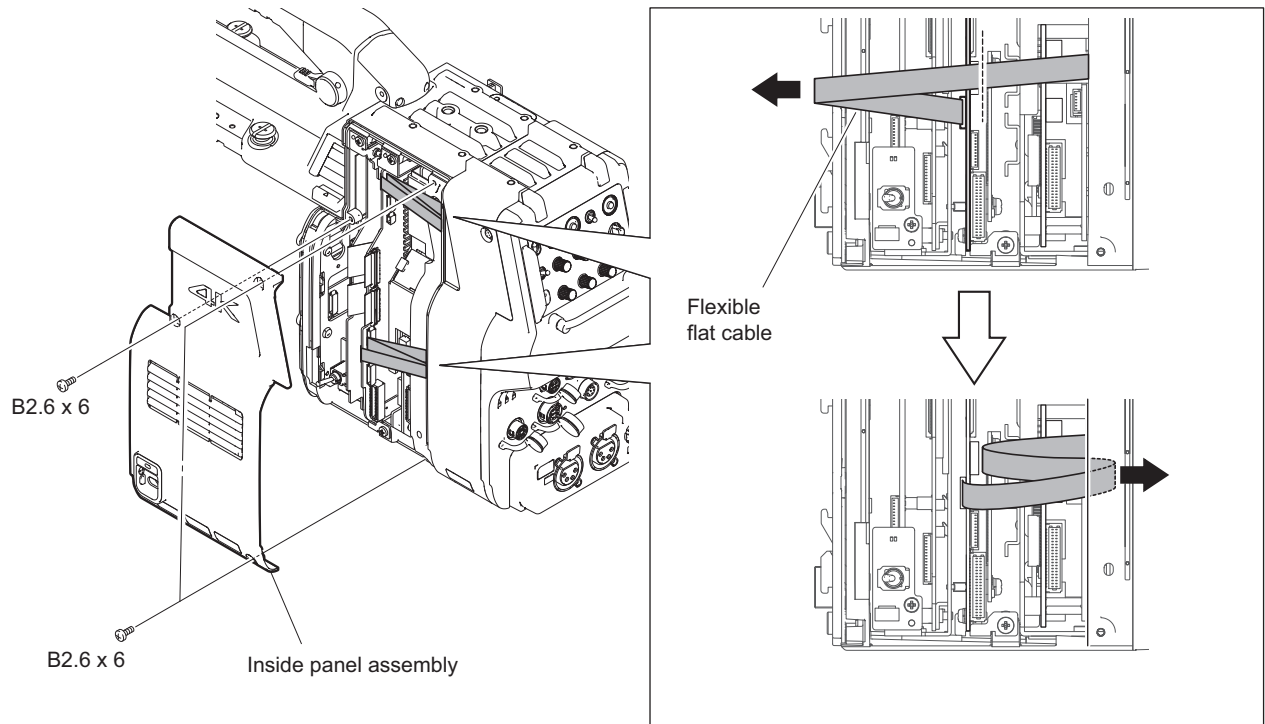


11. Connect the two flexible flat cables and the three harnesses to the five connectors on the SY-427 board.

12. Connect the two harnesses to the two connectors on the PS-869 board.



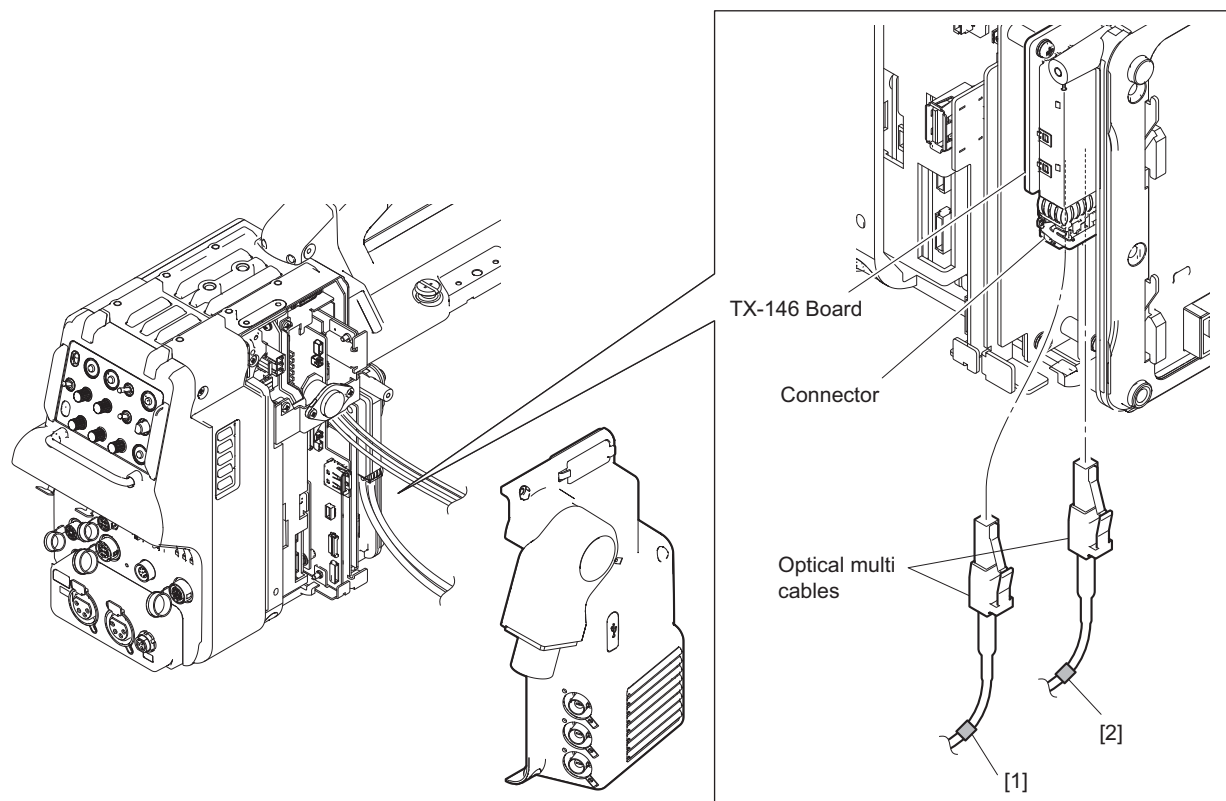
13. Arrange the two flexible flat cables as shown in the figure.
14. Secure the inside panel assembly with the three screws.



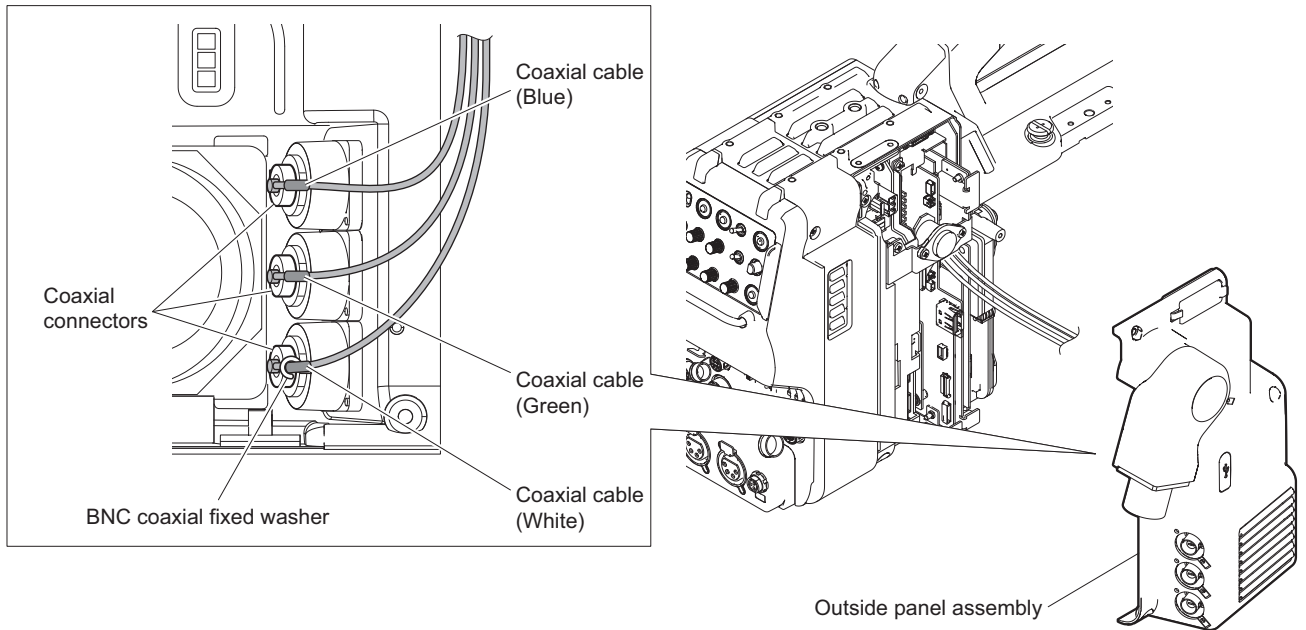
15. Connect the two optical multi cables to the connector on the TX-146 board.

Note

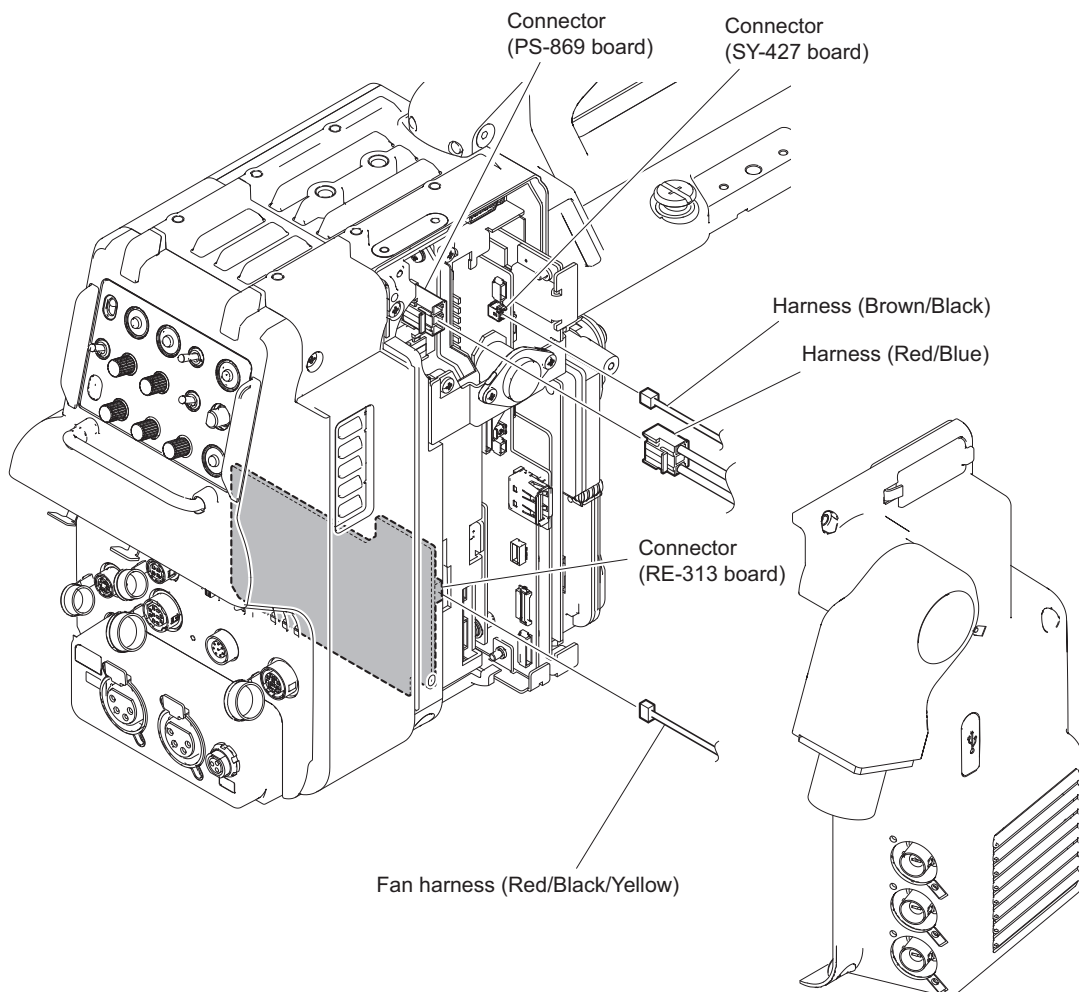
When reconnecting the cables, connect correct connectors.



16. Connect the three coaxial cables to the three coaxial connectors.
17. Install the coaxial cable (white) to the BNC coaxial fixed washer.



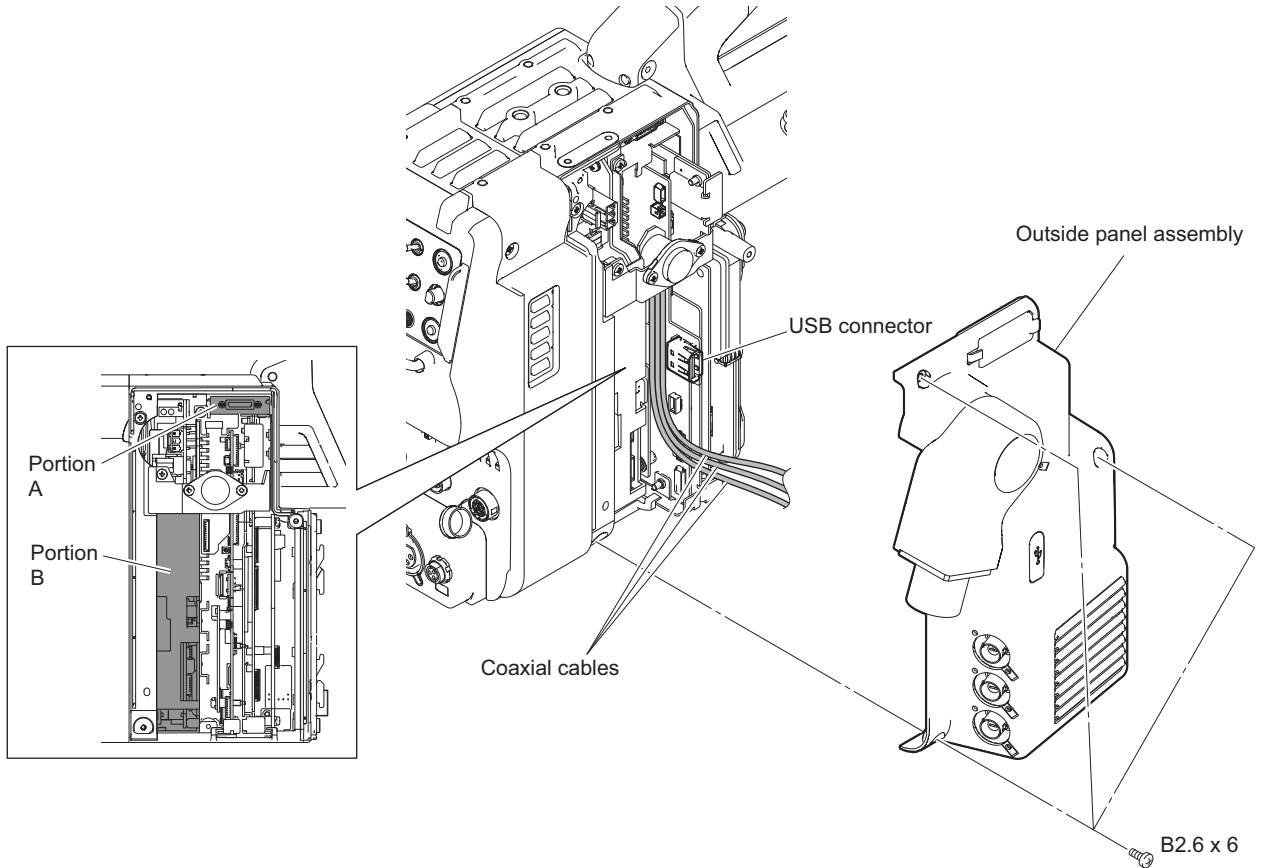
18. Connect the harness to the connector on the SY-427 board.
19. Connect the harness to the connector on the PS-869 board.
20. Connect the fan harness to the connector on the RE-313 board.



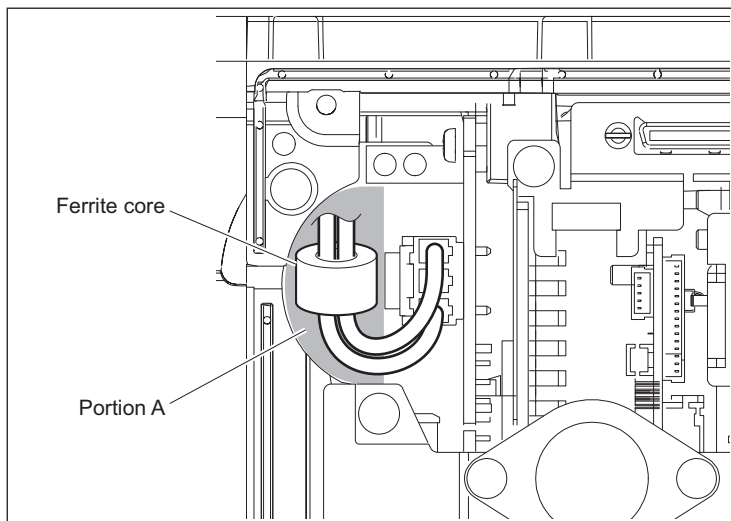
21. Secure the outside panel assembly with the three screws.

Note

- Arrange the three coaxial cables to behind of the USB connector as shown in the figure.
- When installing the outside panel assembly, check that the harnesses are not over the portions A or B.



- Arrange the ferrite core into the portion A.



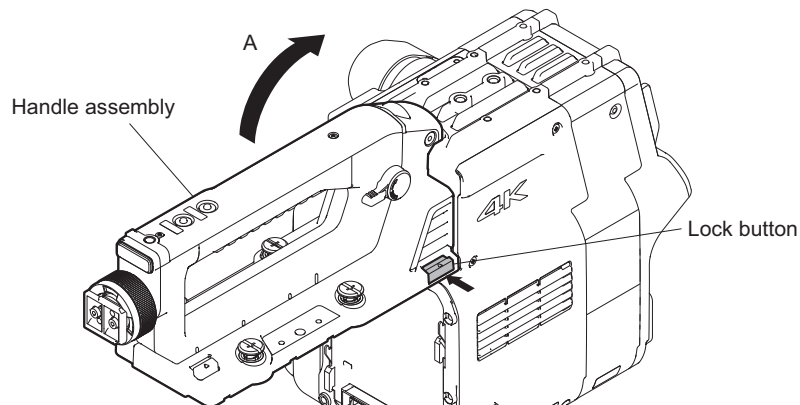
1-3. Installing the SKC-4065

When installing the SK-PB40, install it beforehand by referring to “1-2. Installing the SKC-PB40”.

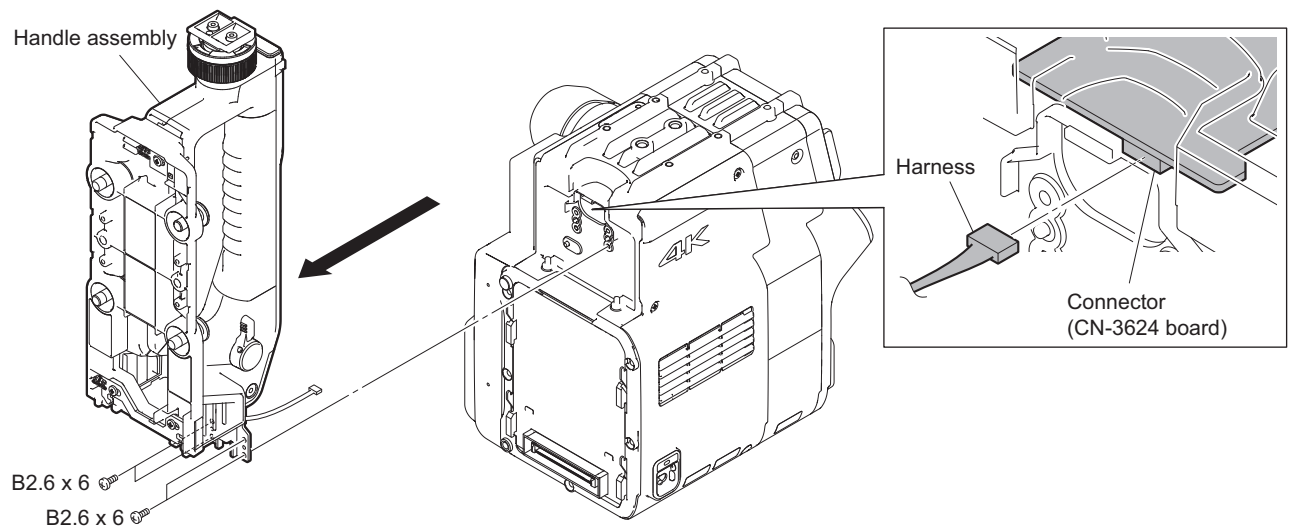
1-3-1. Removing the Handle Assembly

Procedure

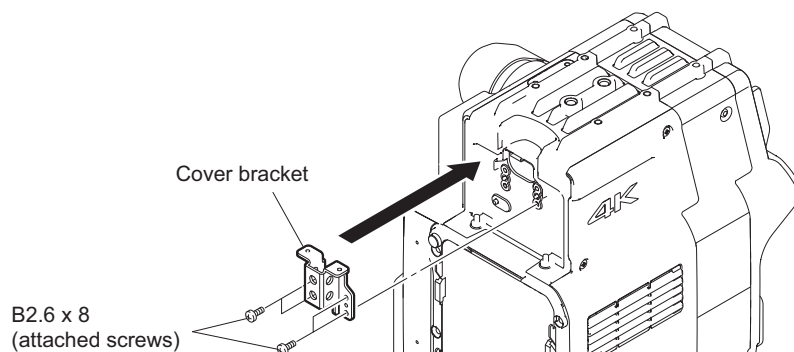
1. Rotate the handle assembly in the direction of the arrow A while pushing the lock button.



2. Remove the four screws and pull out the handle assembly in the direction of the arrow.
3. Disconnect the harness from the connector on the CN-3624 board and remove the handle assembly.



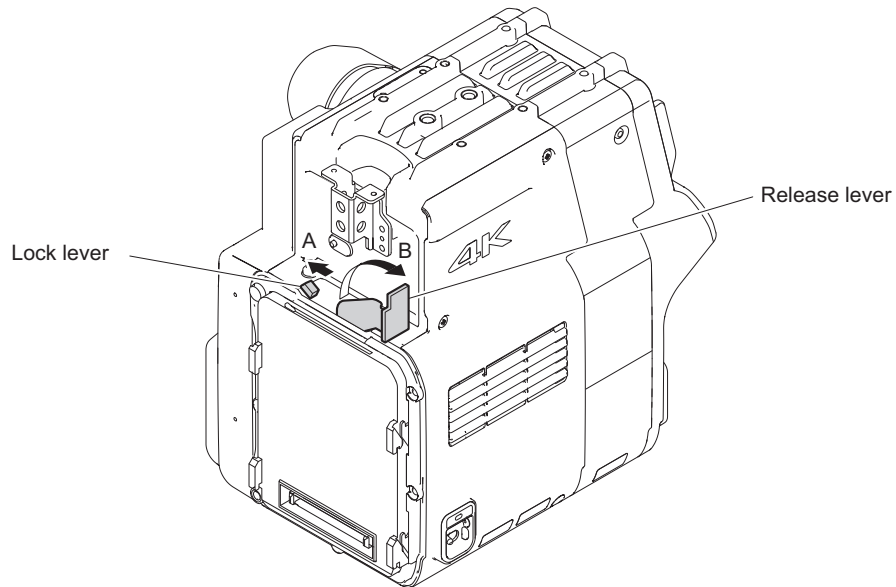
4. Install the cover bracket and tighten the four screws.



1-3-2. Installing the SKC-4065 and the Adaptor Cover Assembly

Procedure

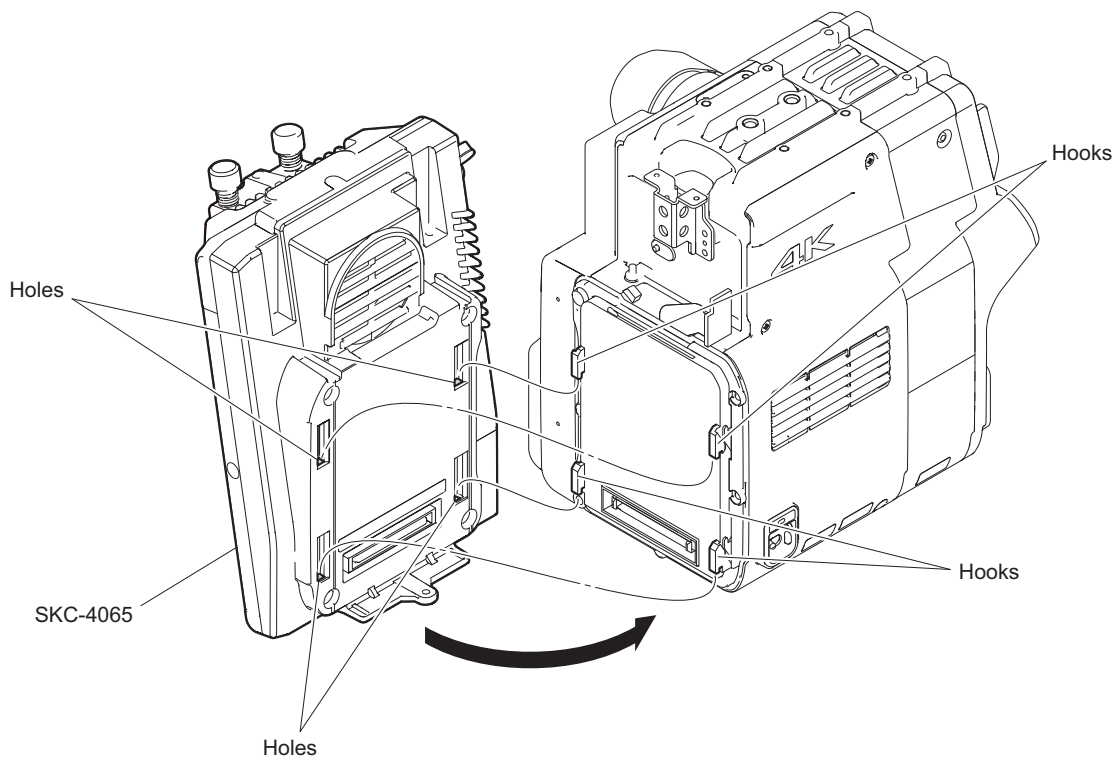
1. Release the lock lever in the direction of the arrow and rotate the release lever in the direction of the arrow B.



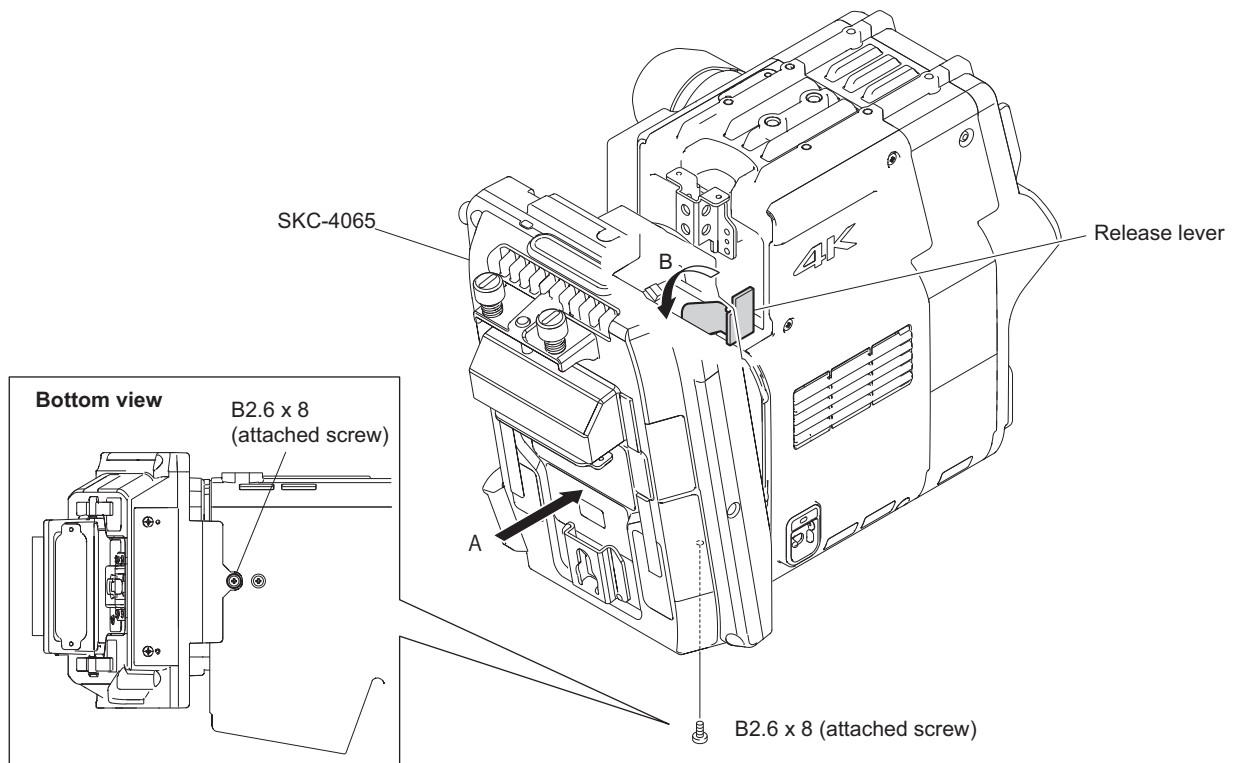
2. Install the SKC-4065.

Note

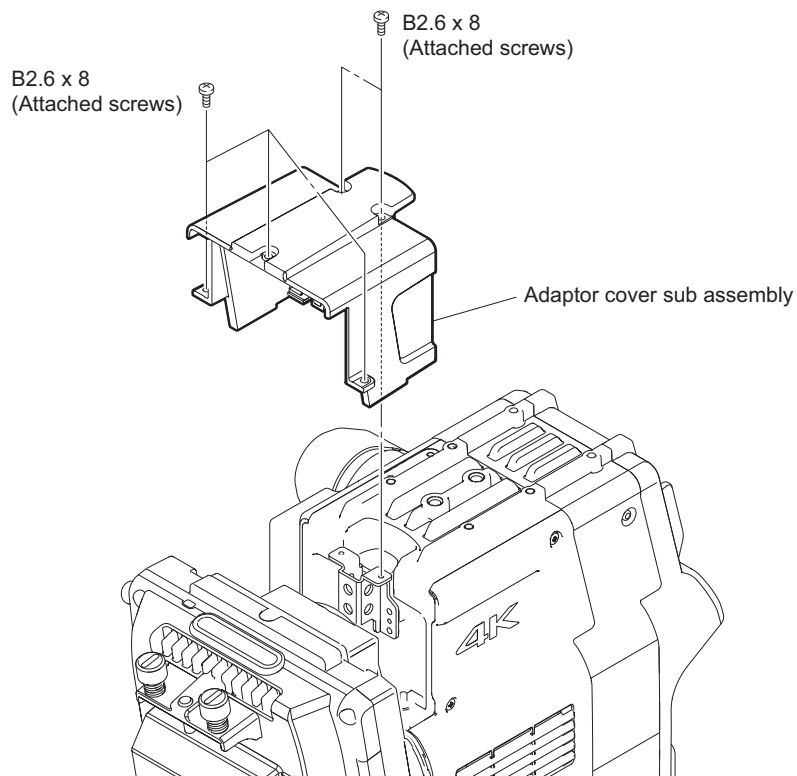
When installing the SKC-4065, fit the four hooks with the four holes.



3. Rotate the release lever in the direction of the arrow B until the release lever is locked while pushing the SKC-4065 in the direction of the arrow A.
4. Tighten the attached screw in the SKC-4065.



5. Install the adaptor cover sub assembly and tighten the five attached screws in the SKC-4065.



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CA4000 (CED)
CA4000 (J) J, E
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