SONY

REMOTE CONTROL PANEL

RCP-3500
RCP-3501

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SERVICE MANUAL
1st Edition

Corrected on September 9, 2020

⚠ 警告

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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ことがあります。
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⚠ 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 manual 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.

安全のために，周辺機器を接続する際は，過大電圧を持つ可能性があるコネクターを以下のポートに接続しないでください。
: Network コネクター
上記のポートについては本書の指示に従ってください。

For safety, do not connect the connector for peripheral device wiring that might have excessive voltage to the following port.
: Network connector
Follow the instructions for the above port.

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。

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.

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.

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.

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.

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.

HUOMIO

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

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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Section 1
Service Overview

1-1. Installation

1-1-1. Installation Environment

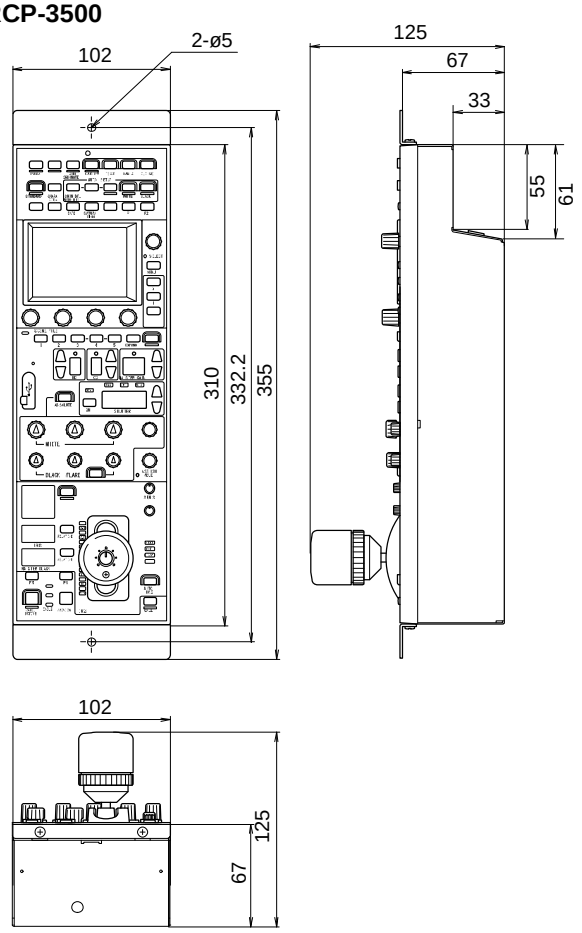
Install the unit at a place that satisfies the following conditions.
Operating temperature: +5 to +40 dC
Humidity: No condensation

1-1-2. Installation Conditions

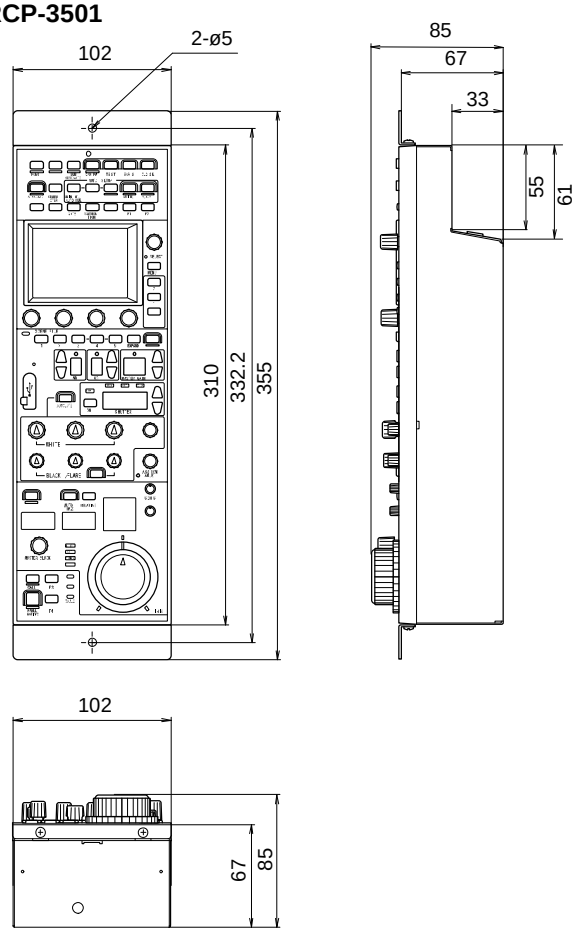
Secure a space of 7 cm or more backward from the connector panel to protect cables from damage.

1-1-3. Outside Dimensions (Unit: mm)

RCP-3500

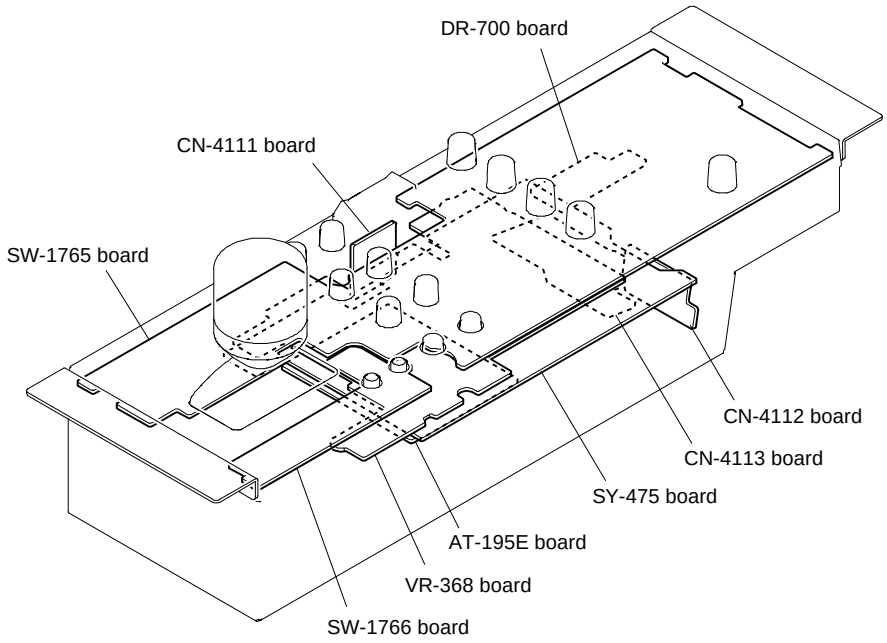


RCP-3501

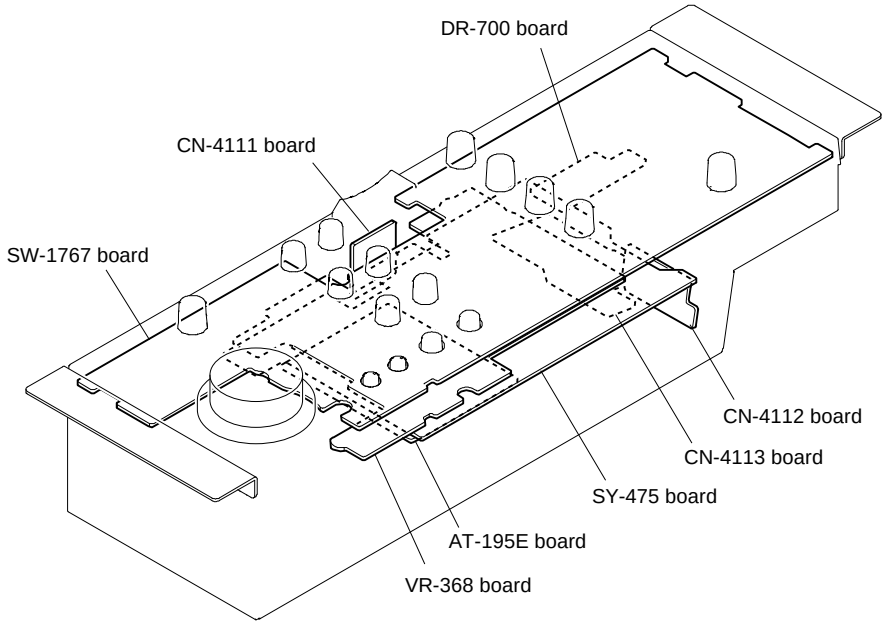


1-2. Location of Printed Wiring Boards

RCP-3500

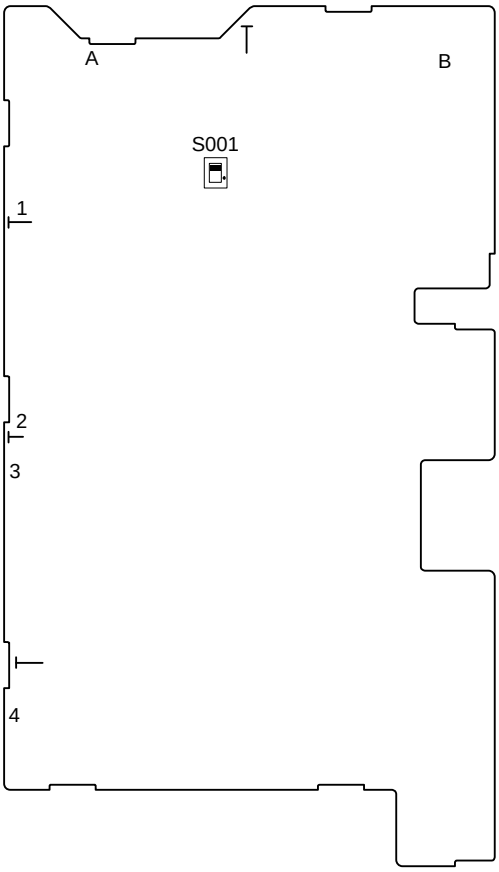


RCP-3501



1-3. Settings of Internal Switches

1-3-1. SY-475 Board



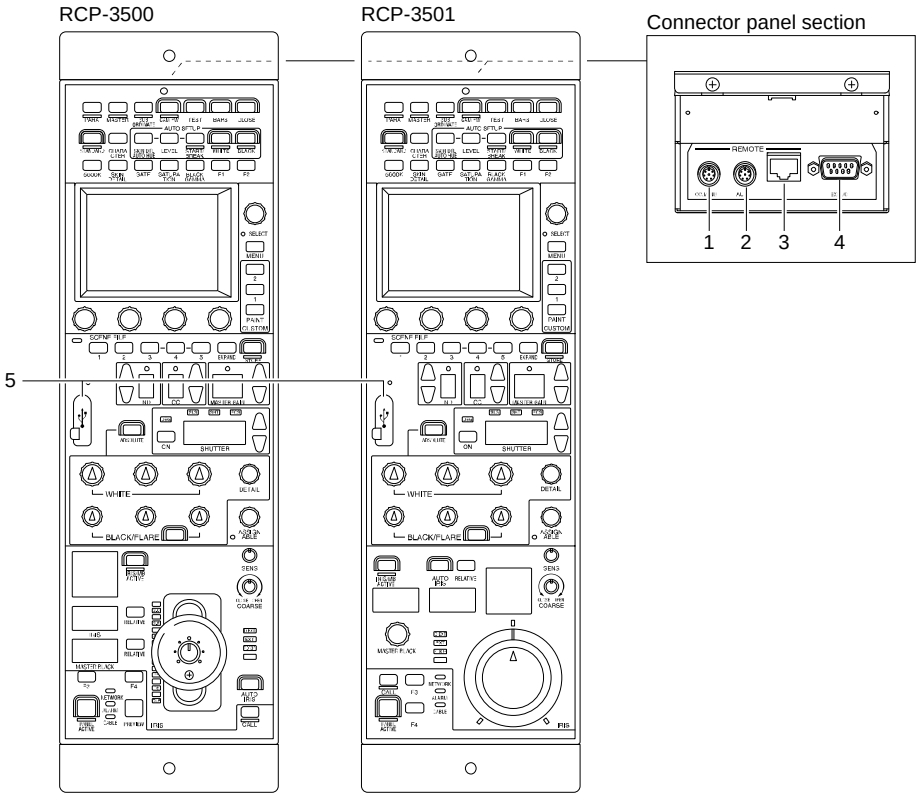
Factory Setting
(■ :Knob position)

SY-475 BOARD
-A SIDE-

Ref. No.	Description	Factory setting
S001	PoE Class	OFF

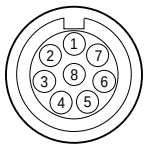
1-4. Connectors and Cables

1-4-1. Location of Connectors



1-4-2. Input/Output Signals of Connectors

1. CCU/CNU REMOTE (8P, Female)



- External View -

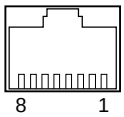
No.	Signal name	Specification
1	TX (+)	RCP serial data (+)
2	TX (-)	RCP serial data (-)
3	RX (+)	CCU/CNU serial data (+)
4	RX (-)	CCU/CNU serial data (-)
5	GND	GND
6	POWER (+) IN	RCP power, +10.5 V to +30 V
7	POWER (-) IN	GND for power
8	SPARE	-
	CHASSIS GND	Chassis GND

2. AUX (8P, Female)

- External View -

No.	Signal name	Specification
1	TX (+)	RCP serial data (+)
2	TX (-)	RCP serial data (-)
3	RX (+)	CCU/CNU serial data (+)
4	RX (-)	CCU/CNU serial data (-)
5	GND	GND
6	POWER (+) OUT	RCP power, +10.5 V to +30 V (Max 5 A)
7	POWER (-) OUT	GND for power
8	SPARE	-
	CHASSIS GND	Chassis GND

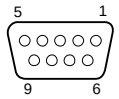
3. Ethernet: 10Base-T/100Base-TX/1000Base-T



- External View -

No.	Signal name	Specification
1	TRD0+	Transmitted data 0 (+)
2	TRD0-	Transmitted data 0 (-)
3	TRD1+	Transmitted data 1 (+)
4	TRD2+	Transmitted data 2 (+)
5	TRD2-	Transmitted data 2 (-)
6	TRD1-	Transmitted data 1 (-)
7	TRD3+	Transmitted data 3 (+)
8	TRD3-	Transmitted data 3 (-)

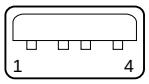
4. EXT I/O (9P, Female)



- External View -

No.	Signal name	Specification	
1	PREVIEW S1	Contact (Max. 200 mA)	
2	PREVIEW S2	Contact (Max. 200 mA)	
3	PREVIEW IN	PREVIEW button input (ON: GND, OFF: Open)	
4	CALL OUT	CALL output (Open-collector, Max. 30 mA)	
5	TALLY ENABLE	ON: GND	OFF: Open
6	R TALLY IN	R TALLY IN	-
7	PREVIEW IN/G TALLY IN	G TALLY IN	PREVIEW IN
8	POWER IN	Power supply input (10.5 V to 17 V)	
9	GND	GND	

5. USB (USB 2.0, Type A)



- External View -

No.	Signal name	Specification
1	VBUS	USB Vcc (+5 V)
2	D-	USB-
3	D+	USB+
4	GND	GND

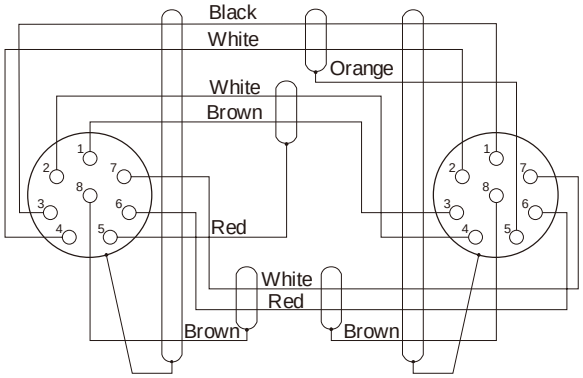
1-4-3. Cable Connectors/Cables

When connecting cables to the connectors on the connector panel during installation or service, use the cable connectors or cables below.

Connector name	Cable connector/Cable
• CCU/CNU REMOTE • AUX REMOTE (8P, Female)	Plug, 8-Pin Male (parts number: 1-766-848-11) or CCA-5 Cable Assembly (separately available) CCA-5-3 (3 m), CCA-5-10 (10 m), CCA-5-30 (30 m)
EXT I/O (9P, Female)	D-sub 9P Male (parts number: 1-560-651-11) or JAE DE-9PF-N or equivalent
Ethernet (8P)	RJ-45 modular jack, CAT5e STP cable (commercially available)
USB (USB 2.0, Type A)	USB 2.0 Type-A cable (commercially available)

1-4-4. Cable Connection

CCA-5 cable



8-pin connector (Male)
(Wiring side)

8-pin connector (Male)
(Wiring side)

1-5. System Connection

1-5-1. Supported Devices

This unit supports connection to the following devices.

- UHCU-8300
- BPU4800/4500A/4000
- HDRC-4000
- HDCU4300
- HDC4300
- HDCU5500/5000/3500/3100/3170
- HDC5500/5000/3500/3100/3170
- HDCU2500/2000
- HDC2400/2500/2000
- HDC-P50/P1
- HSCU-300R/RF
- HSC-100R/RF
- HSC-300R/RF
- HXCU-FB80/FB70
- HXC-FB80/FB75
- HXCU-TX70
- HXC-P70
- BRC-X1000
- BRC-H800
- HZC-CSM10 (PC-MSU)
- HZC-RCP5 (PC-RCP)
- CNA-1
- MSU-1500/1000
- RCP-1000/1001/1500/1501/1530/3100

Note

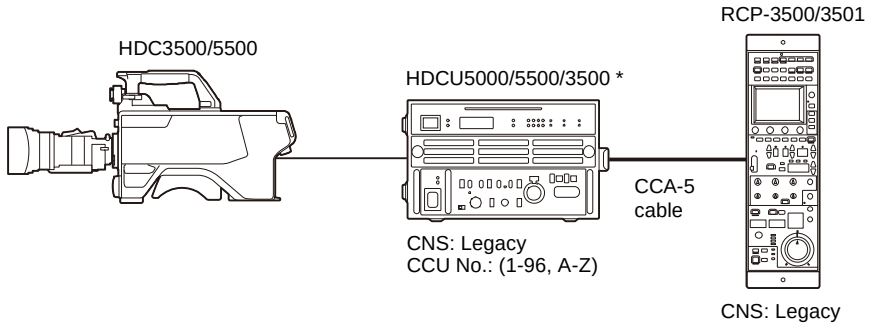
- Correct operation may not be possible depending on the firmware version. Be sure to update to the latest version before use.
- The functions available on the control panel may be limited depending on the connected camera. Some controls may not function with certain cameras, but this is not a malfunction.

1-5-2. System Connection Example

Note

Restart all camera systems after changing the connection mode (CNS).

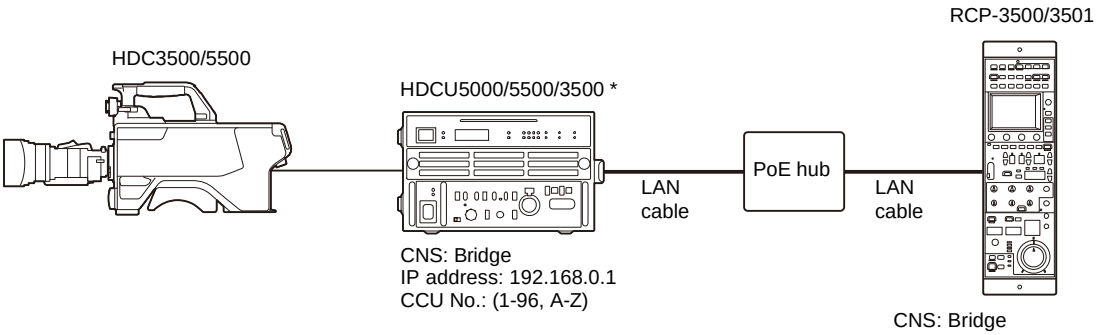
LEGACY mode connection example



Connect a camera control unit (CCU) and RCP with a CCA-5 cable.

* The diagram shows the HDCU5500/3500.

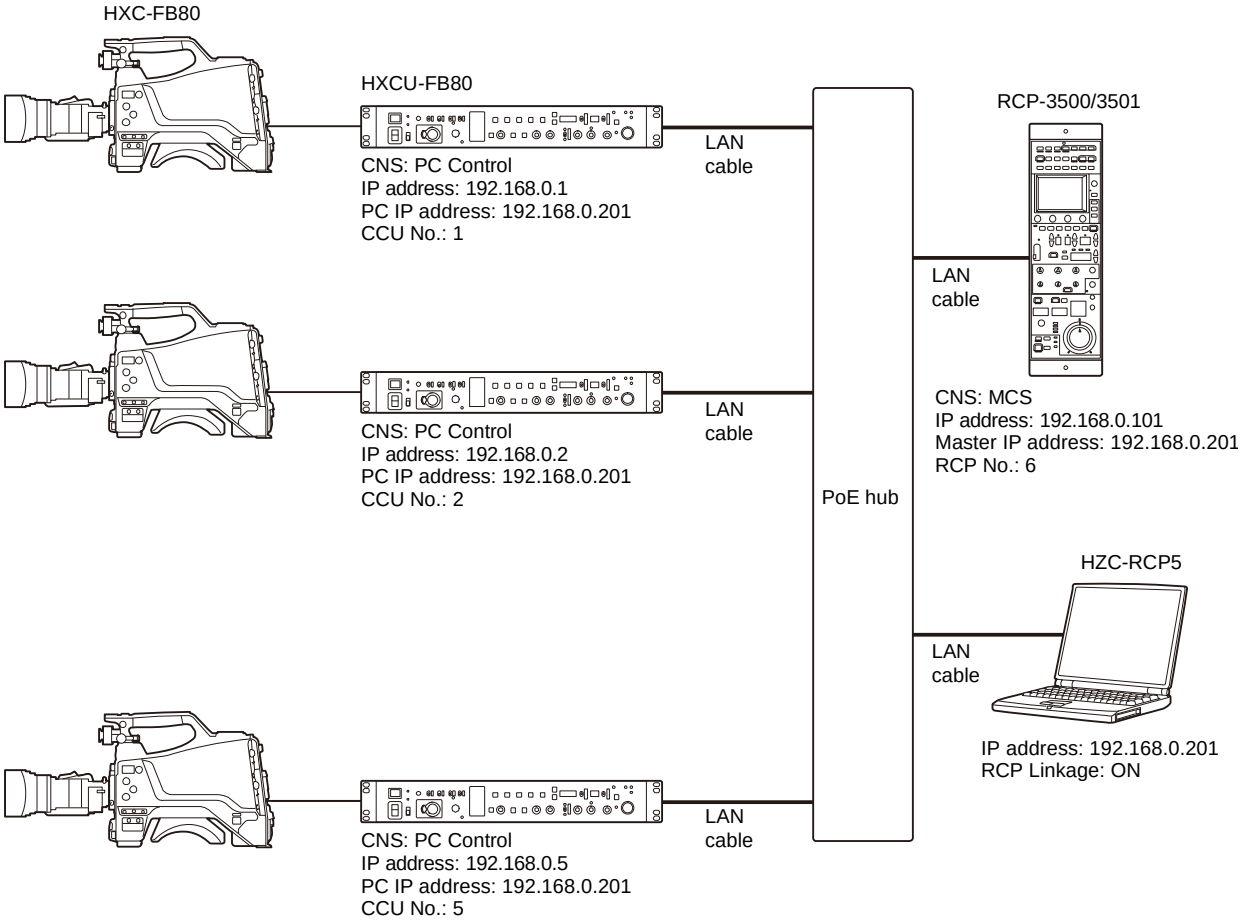
BRIDGE mode connection example



- Connect CCU and RCP (one to one) using a LAN cable.
- Configure the IP address and CCU (Target) destination IP address.

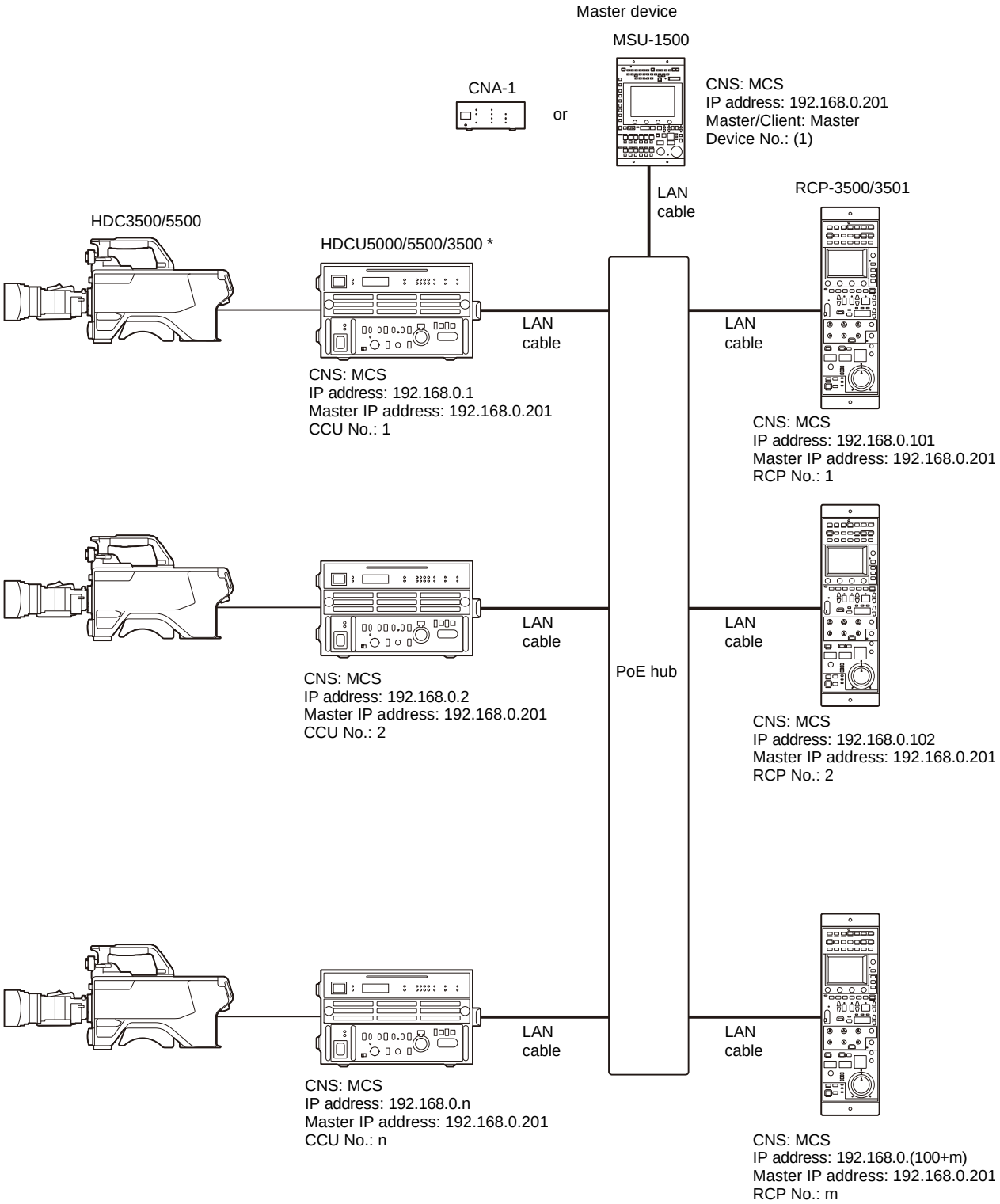
* The diagram shows the HDCU5500/3500.

PC Control mode connection example



- Configured using HZC-RCP5 Camera Remote Control Software.
- CCUs that support PC control are supported.
- Up to six RCP units can be connected.
- Connection example using the RCP Linkage function of HZC-RCP5.

MCS mode connection example



- The master device controls the whole camera system.
- Configure the IP address of each device and the IP address of the master device.
- A master setup unit (MSU) or CNA-1 can be used as the master device.
- Centralized control of devices and assignment of device to control (RCP assignment) are supported using MSU and HZC-CSM1.

* The diagram shows the HDCU5500/3500.

1-6. Note on Replacing the Parts and Repairing

1-6-1. Actions to Be Taken after Replacing the SY-475, SW-1765/SW-1767, and AT-195E Boards

The following boards store information specific to each model. This information is held in the same state between these boards.

- SY-475 board
- SW-1765 board (RCP-3500) or SW-1767 board (RCP-3501)
- AT-195E board

If all of these boards are replaced at the same time, model-specific information is lost.
Replace these boards one by one. After they have been replaced, turn on the unit and hold the model-specific information between these boards.

1-6-2. Replacing the Flexible Card Wires

Disconnecting/connecting the flexible card wire

Note

Life of flexible card wire/board will be significantly shortened if it is folded. Be very careful not to fold the flexible card wire/board.
The several types of different shape connectors are used in this unit.
Because the direction of the flexible card wire/board is different depending on the shape of the connector, be careful when connecting the flexible card wire/board.

Disconnecting

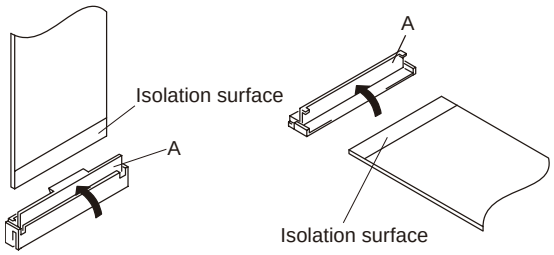
1. Turn off the power.
2. Slide or lift up the portion A in the direction of the arrow to unlock and pull out the flexible card wire.

Connecting

Note

- Do not insert the flexible card wire sideways.
- Confirm that there is no stain or dust on the contact surface of the flexible card wire.
- When connecting the flexible card wire, check the connector shape, and great care should be taken for the direction of the contact surface or isolation surface (blue).

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.



Procedure for synchronizing model-specific information
If a difference is generated in model-specific information when a aboard is replaced, a message “RCP: Model Information Error.” appears on the LCD.
In this case, perform the following procedure to write model-specific information to the replaced board.

Procedure

1. Startup the service mode. (Refer to “4-1. Activating the Service Mode”.)
2. Tap [Config] > [RCP] > [Information] > [Version] to display the Version Info screen.
3. Tap [Restore] at the lower right of the screen.
4. When “Restore Model Information” appears, tap [OK].
5. Check that the message “RCP: Model Information Error.” disappears.
6. Turn off and on the unit, and then check that “RCP: Model Information Error.” does not appear.

Forming the flexible card wire

When installing a new flexible card wire prepared as a spare part, bend it by hand referring to the flexible card wire supplied with this unit.

Note

Never reform the flexible card wire after being folded once.

RCP-3500/3501

- SY-475 board CN003 ↔ CN-4113 board CN003
- SY-475 board CN105 ↔ AT-195E board CN304

RCP-3500

- SY-475 board CN001 ↔ SW-1765 board CN001
- SY-475 board CN004 ↔ SW-1765 board CN004
- SW-1765 board CN006 ↔ SW-1766 board CN001

RCP-3501

- SY-475 board CN001 ↔ SW-1767 board CN001
- SY-475 board CN004 ↔ SW-1767 board CN004

1-6-3. Note on Replacement of Lithium Battery

A lithium battery is mounted on the SY-475 board to back up the real time clock (RTC). If this unit is not energized, the backup period is about two years. When the RTC is reset without using this unit for long time, charge the lithium battery by energizing this unit all day long.
When the backup period is shortened even if the lithium battery is charged, the lithium battery must be replaced.

- Replacement part: Lithium secondary battery (ML621 (U))
- Part number: ⚠1-756-134-18

Note on Replacement of Lithium Battery

CAUTION

When replacing the lithium battery, ensure that the battery is installed with “+” and “-” poles connected to the correct terminals. Improper connection may cause an explosion or leakage of fluid, resulting in injury or damage to surrounding properties.

1-6-4. Circuit Protection Parts

Fuses

WARNING

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.

CAUTION

Replacing any fuse is replaced while power is supplied to the unit may cause electric shock. Before replacing any fuse, turn off the POWER switch and also disconnect all connected cables.

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

Board	Ref. No	Parts No.	Rating
CN-4113	F001	⚠1-523-519-11	2.5 A/32 V
	F002	⚠1-523-113-11	800 mA/32 V

Section 2
Periodic Maintenance and Inspection

2-1. Recommended Replacement Parts

The following parts are recommended replacement parts. Replace them if necessary.

Parts name	Parts No.	Remarks
USB cap	4-478-730-02	Check for deformation and deterioration (abraded or damaged or lost) from time to time. Replace it as necessary.
Lithium secondary battery	⚠1-756-134-18	This lithium battery back up the real time clock (RTC). When the RTC is reset without using this unit for long time, charge the lithium battery by energizing this unit all day long. When the backup period is shortened even if the lithium battery is charged, the lithium battery must be replaced.

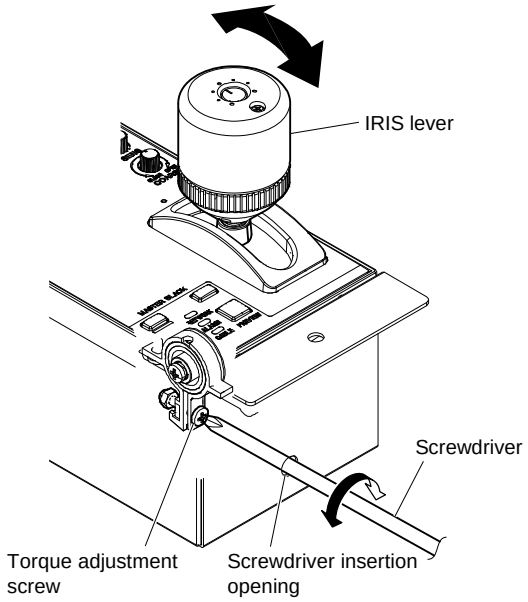
2-2. Torque Adjustment of J IRIS Assembly

The J IRIS assembly is shipped after being adjusted to the specified torque value. When the operation torque of the J IRIS assembly is weakened due to aging and so on, fine adjust the torque of the J IRIS assembly in either one of the following two methods.

When the bottom chassis is attached

Procedure

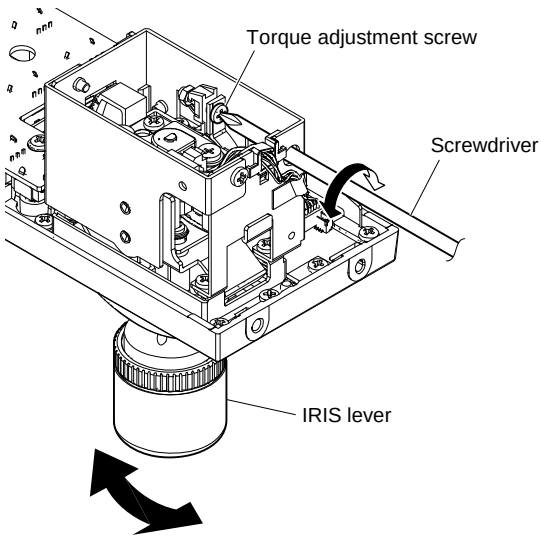
1. Insert the screwdriver from the screwdriver insertion opening of the bottom chassis.
2. Rotate the torque adjustment screw and adjust the torque of IRIS lever while moving it.



When the bottom chassis is removed

Procedure

1. Remove the bottom chassis. (Refer to Section 3-2-1.)
2. Insert the screwdriver, rotate the torque adjustment screw, and adjust the torque of IRIS lever while moving it.



Section 3
Replacement of Parts

WARNING

Be sure to disconnect the power plug before starting replacement work.

3-1. Tightening Torque

Tighten the each screw with the torque below.

- M2.6: 0.53 ±0.07 N·m
- M3: 0.80 ±0.12 N·m
- Set screw: 0.53 ±0.07 N·m
- Connector screw: 0.53 ±0.07 N·m

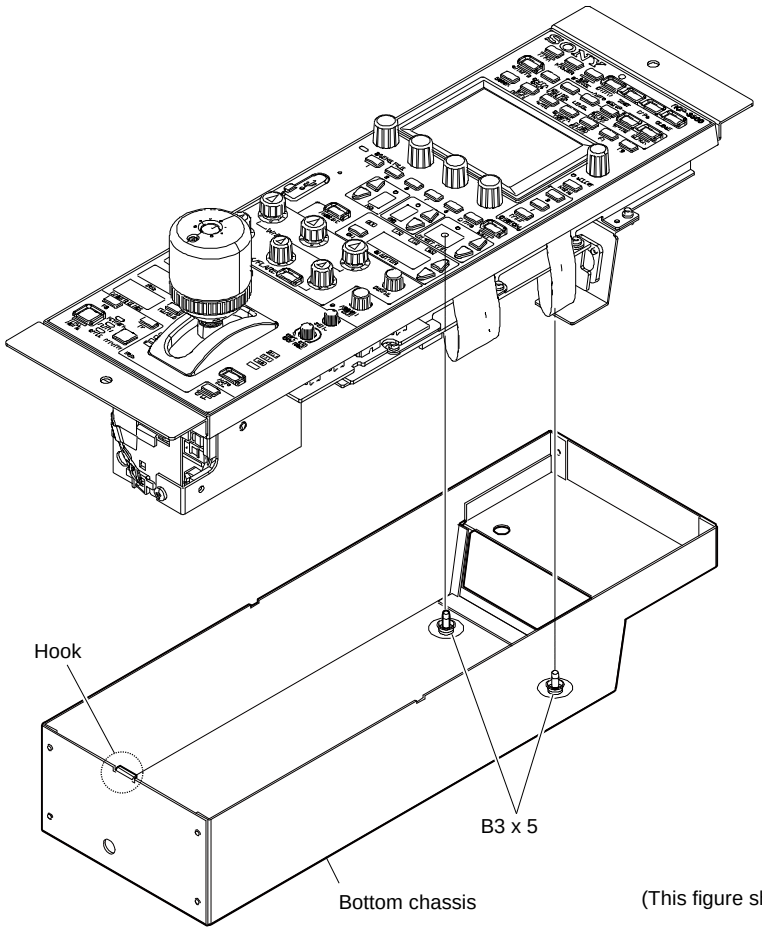
When using the torque driver with the notation of cN·m, interpret it as follows.
Example: 0.8 N·m = 80 cN·m

3-2. Replacement of Main Parts

3-2-1. Bottom Chassis

Removal

1. Loosen the two screws.
2. Remove the hook, and then remove the bottom chassis.



(This figure shows RCP-3500.)

Installation

1. Attach the bottom chassis by reversing the steps of removal procedure.

3-2-2. J IRIS Assembly (RCP-3500)

Tip

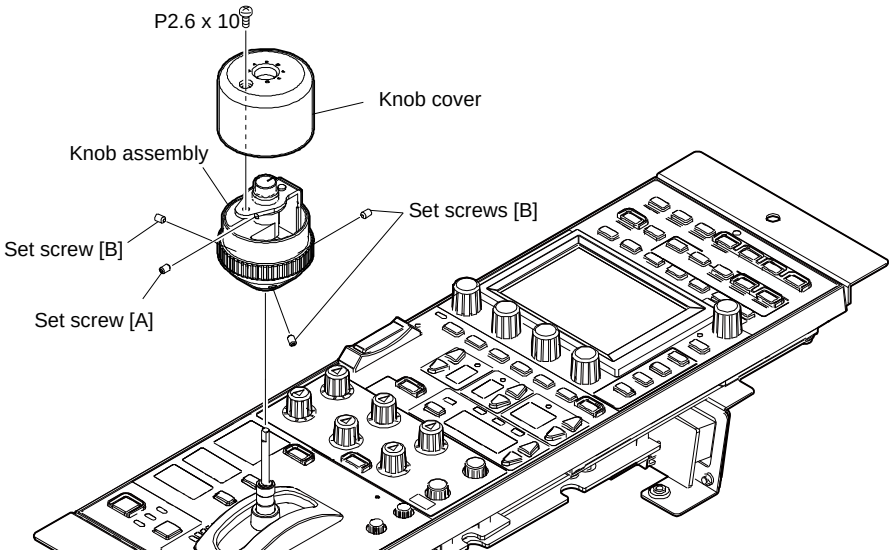
When replacing the plate spring, refer to “Spare Parts” in Section 7.

Preparation

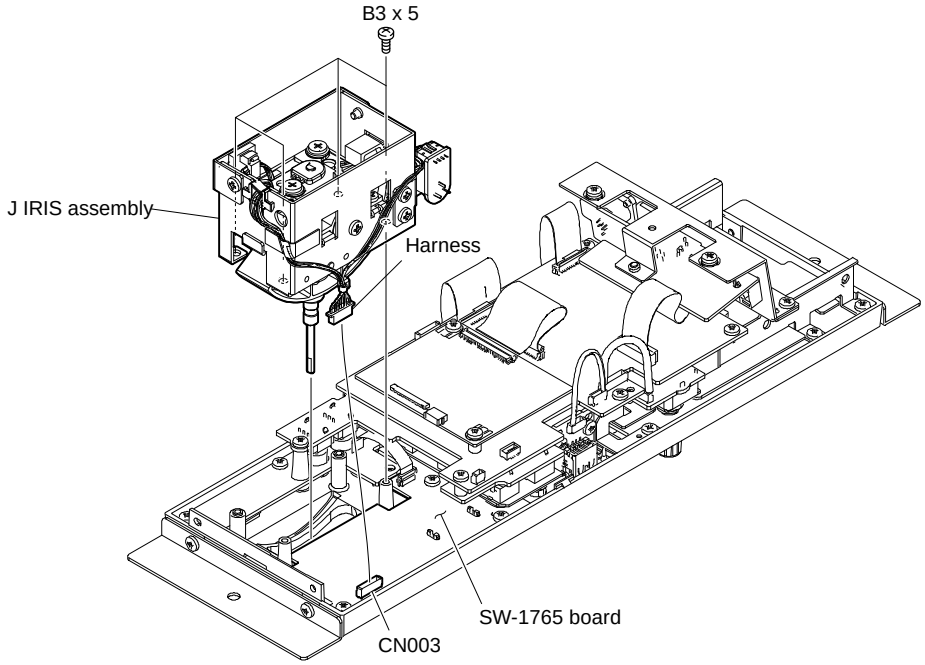
1. Remove the bottom chassis. (Refer to Section 3-2-1.)

Removal

1. Remove the screw (P2.6 x 10), and then remove the knob cover.
2. Remove the set screw [A].
3. Remove the three set screws [B], and then remove the knob assembly.



4. Disconnect the harness from the connector (CN003) on the SW-1765 board.
5. Remove the four screws, and then remove the J IRIS assembly.

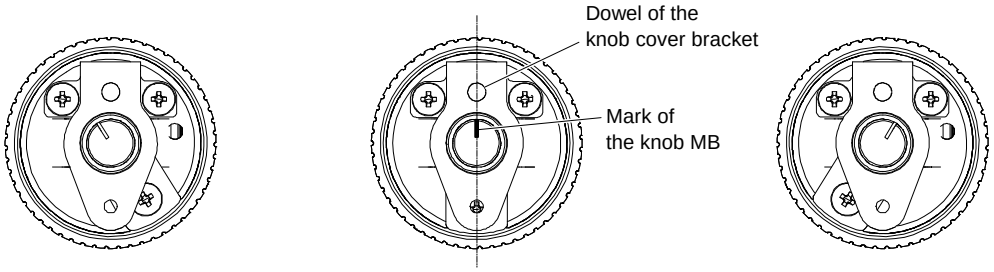


Installation

1. Attach the J IRIS assembly by reversing the steps of removal procedure.

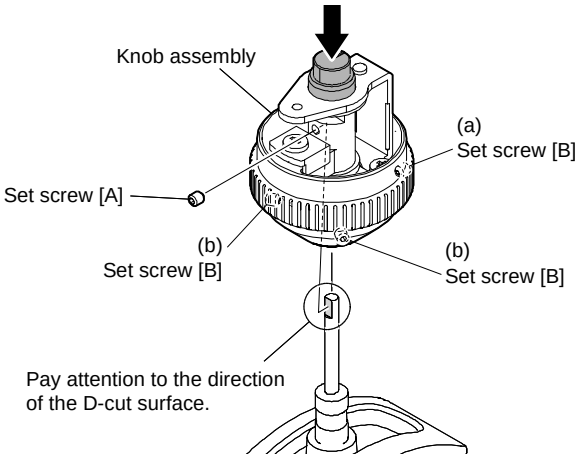
Note

- Before attaching the knob assembly, align the mark of the knob MB with the dowel of the knob cover bracket as shown in the figure.



Incorrect Correct Incorrect

- When installing the knob assembly, align the set screw [A] with the D-cut surface.
- Tighten the set screws while holding down the area of the knob assembly indicated by the arrow in the figure with a force of approx. 1 kgf.
- When installing the set screw [A] and three set screws [B], apply the locking compound.
- When attaching the knob assembly, tighten the three set screws [B] in the following sequence: (a), (b).



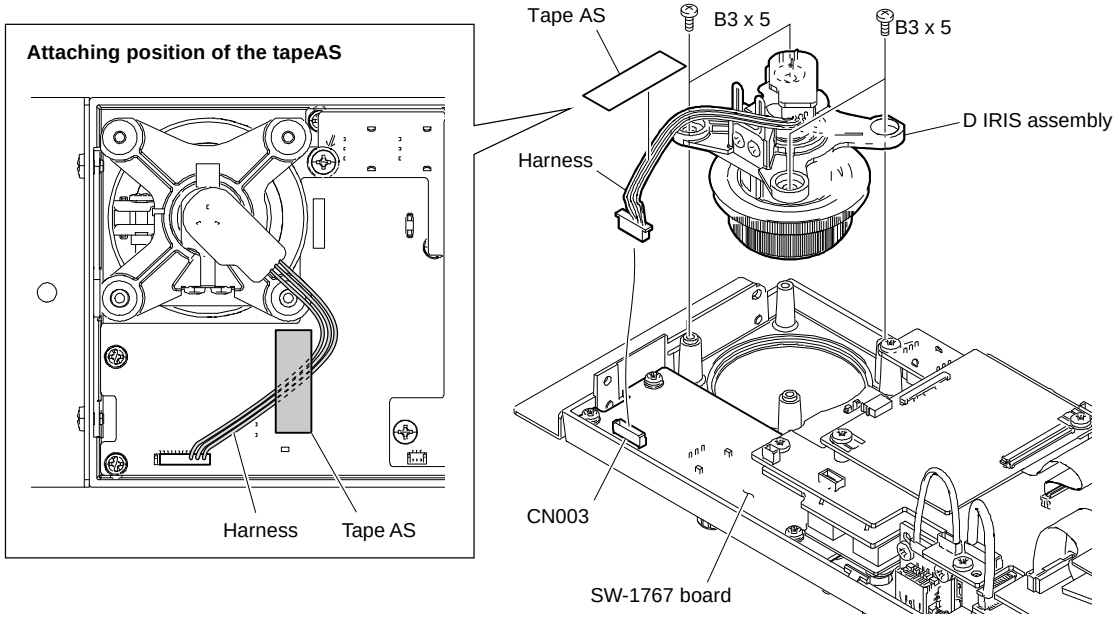
3-2-3. D IRIS Assembly (RCP-3501)

Preparation

1. Remove the bottom chassis. (Refer to Section 3-2-1.)

Removal

1. Peel off the tape AS.
2. Disconnect the harness from the connector (CN003) on the SW-1767 board.
3. Remove the four screws, and then remove the D IRIS assembly.



Installation

1. Attach the D IRIS assembly by reversing the steps of removal procedure.

   Tip

   Attach the tape AS over the harness so that the harness stays on the board.

3-2-4. EL Sheet Assembly

Preparation

1. Remove the bottom chassis. (Refer to Section 3-2-1.)
2. Remove the connector bracket. (Refer to steps 1 and 2 in Section 3-3-1.)
3. Remove the SY-475 board. (Refer to steps 1 to 3 in Section 3-3-3.)
4. Remove the VR-368 board. (Refer to Section 3-3-4.)

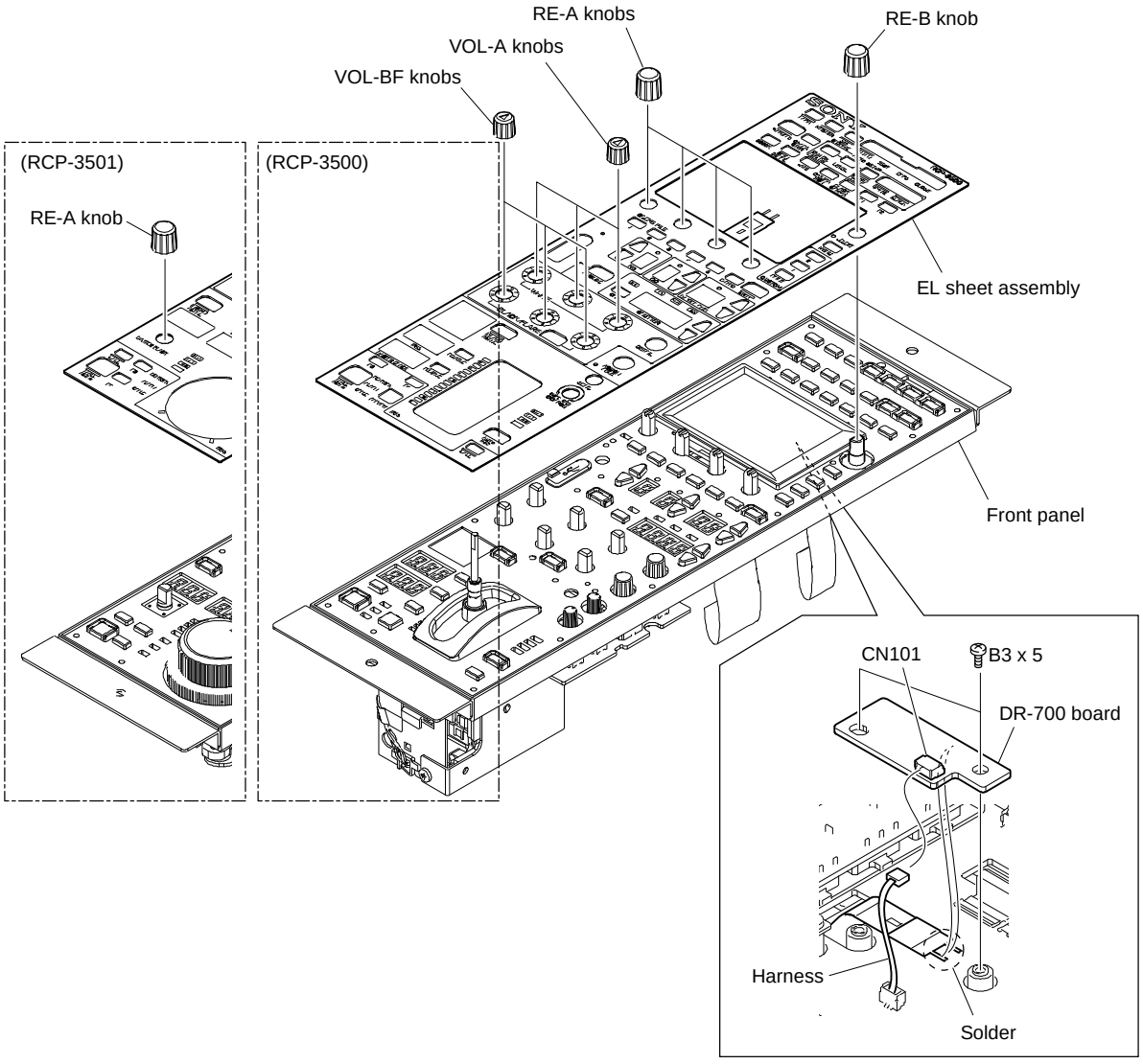
Removal

1. Disconnect the harness from the connector (CN101) on the DR-700 board.
2. Remove the two screws, and then pull up the DR-700 board.
3. Remove solder from the two places.

   Note

   Do not apply excessive heat when unsoldering.

4. Remove the knobs shown in the figure.
5. Detach the EL sheet assembly from the front panel.



Installation

1. Attach the EL sheet assembly by reversing the steps of removal procedure.

3-2-5. 3 inch LCD Module Assembly

Preparation

1. Remove the bottom chassis. (Refer to Section 3-2-1.)
2. Remove the connector bracket. (Refer to steps 1 and 2 in Section 3-3-1.)
3. Remove the SY-475 board. (Refer to steps 1 to 3 in Section 3-3-3.)
4. Remove the VR-368 board. (Refer to Section 3-3-4.)

[For RCP-3500]

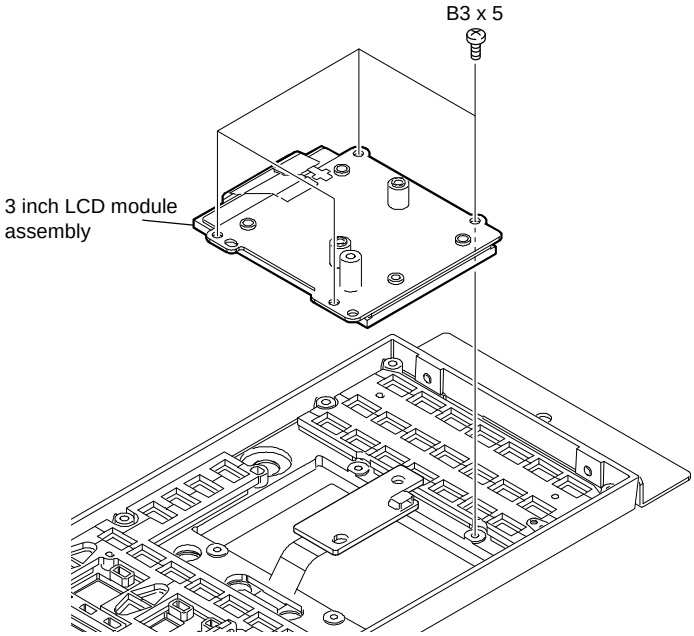
5. Remove the SW-1765 board. (Refer to Section 3-3-5.)

[For RCP-3501]

5. Remove the SW-1767 board. (Refer to Section 3-3-7.)

Removal

1. Remove the four screws, and then remove the 3 inch LCD module assembly.

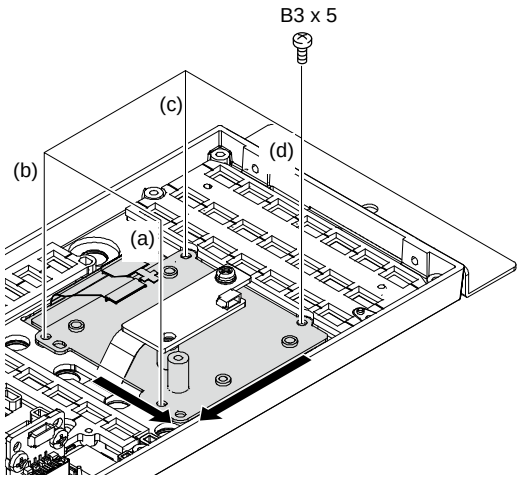


Installation

1. Attach the 3 inch LCD module assembly by reversing the steps of removal procedure.

Tip

When attaching the 3 inch LCD module assembly, while pushing it in the directions of the arrows, tighten the screws in the following sequence: (a), (b), (c), (d).



3-2-6. Speaker (2-1CM)

Tip

The speaker (2-1CM) is not reusable. Prepare new parts in advance.

Preparation

1. Remove the bottom chassis. (Refer to Section 3-2-1.)
2. Remove the connector bracket. (Refer to steps 1 and 2 in Section 3-3-1.)
3. Remove the SY-475 board. (Refer to steps 1 to 3 in Section 3-3-3.)
4. Remove the VR-368 board. (Refer to Section 3-3-4.)

[For RCP-3500]

5. Remove the side bracket (L). (Refer to steps 3, 4 in Section 3-3-5.)

[For RCP-3501]

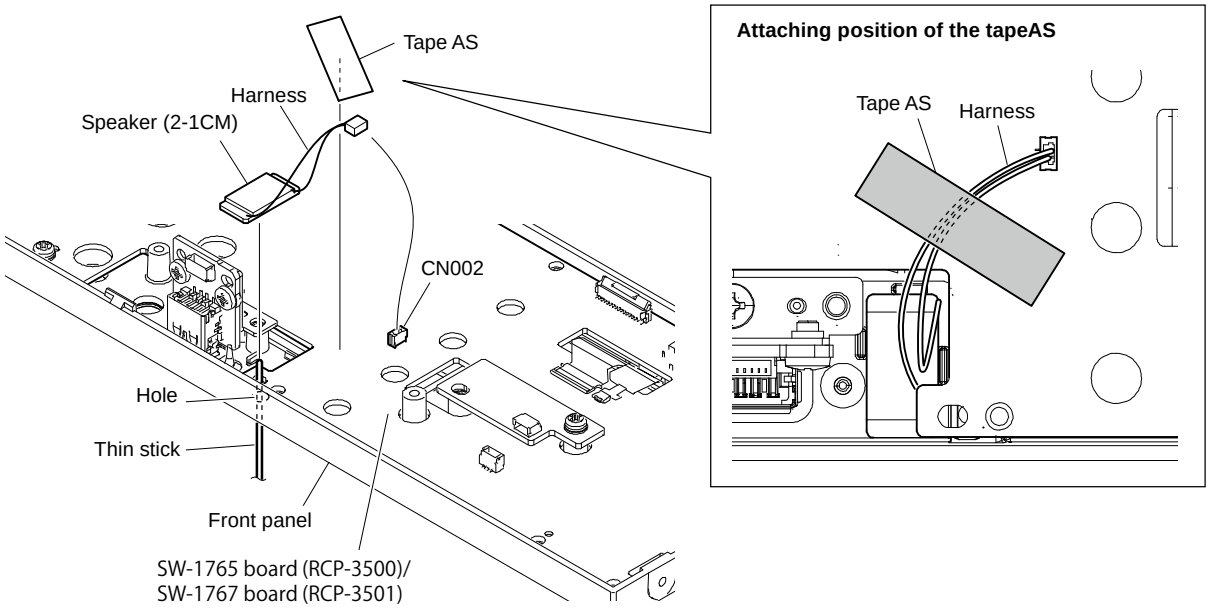
5. Remove the side bracket (L). (Refer to steps 3, 4 in Section 3-3-7.)

Removal

1. Peel off the tape AS.
2. Disconnect the harness from the connector (CN002) on the SW-1765 board (RCP-3500)/SW-1767 board (RCP-3501).
3. Insert a thin stick into the hole to push out the speaker (2-1CM).

   Tip

   Remove the adhesive tape attached on the front panel side.



Installation

1. Install a new speaker (2-1CM).
2. Attach the tape AS over the harness so that the harness stays on the board.

3-3. Replacement of Boards

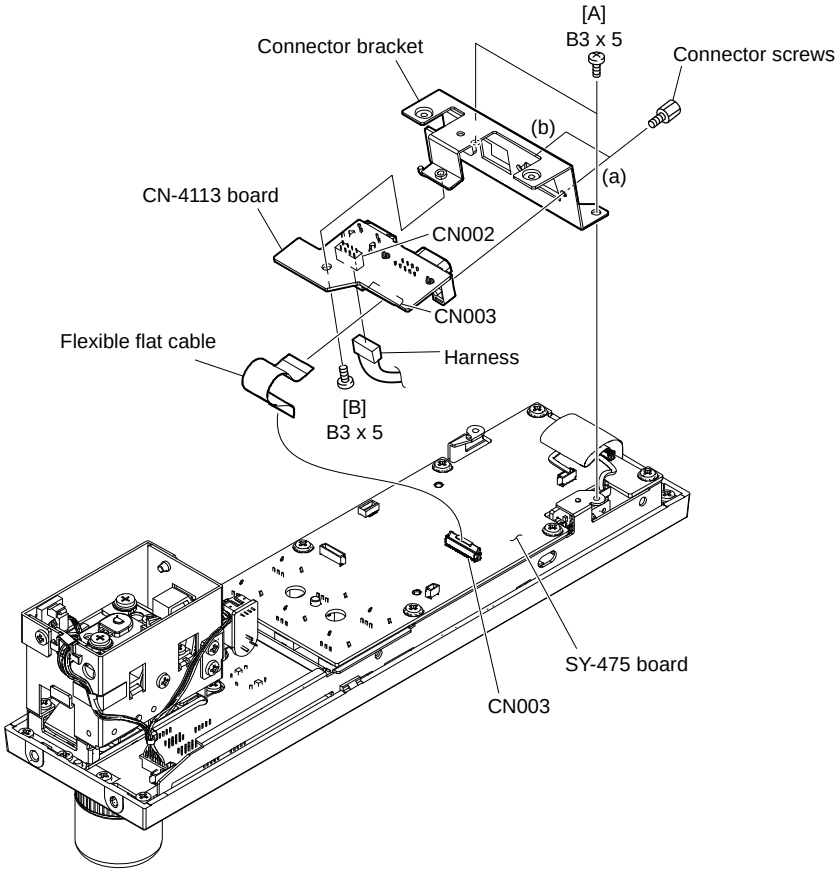
3-3-1. CN-4113 Board

Preparation

1. Remove the bottom chassis. (Refer to Section 3-2-1.)

Removal

1. Disconnect the flexible flat cable from the connector (CN003) on the SY-475 board.
2. Remove the two screws [A] (B3 x 5), and then remove the connector bracket.
3. Disconnect the flexible flat cable from the connector (CN003) on the CN-4113 board.
4. Disconnect the harness from the connector (CN002) on the CN-4113 board.
5. Remove the screw [B] (B3 x 5).
6. Remove the two connector screws, and then remove the CN-4113 board.



Installation

1. Attach the CN-4113 board by reversing the steps of removal procedure.

Tip

When attaching the CN-4113 board, tighten the connector screws in the following sequence: (a), (b).

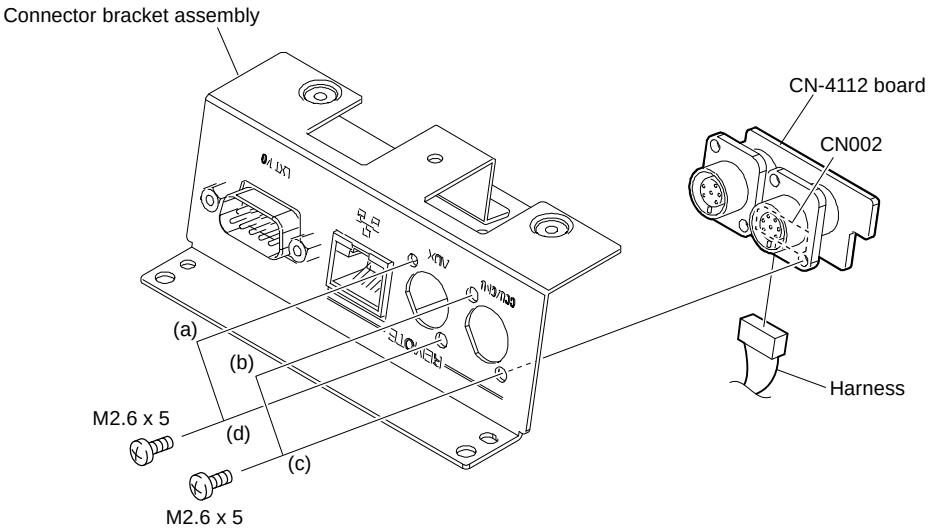
3-3-2. CN-4112 Board

Preparation

1. Remove the bottom chassis. (Refer to Section 3-2-1.)
2. Remove the connector bracket. (Refer to steps 1 and 2 in Section 3-3-1.)

Removal

1. Disconnect the harness from the connector (CN002) on the CN-4112 board.
2. Remove the four screws, and then remove the CN-4112 board.



Installation

1. Attach the CN-4112 board by reversing the steps of removal procedure.

Tip

When attaching the CN-4112 board, tighten the screws in the following sequence: (a) to (d).

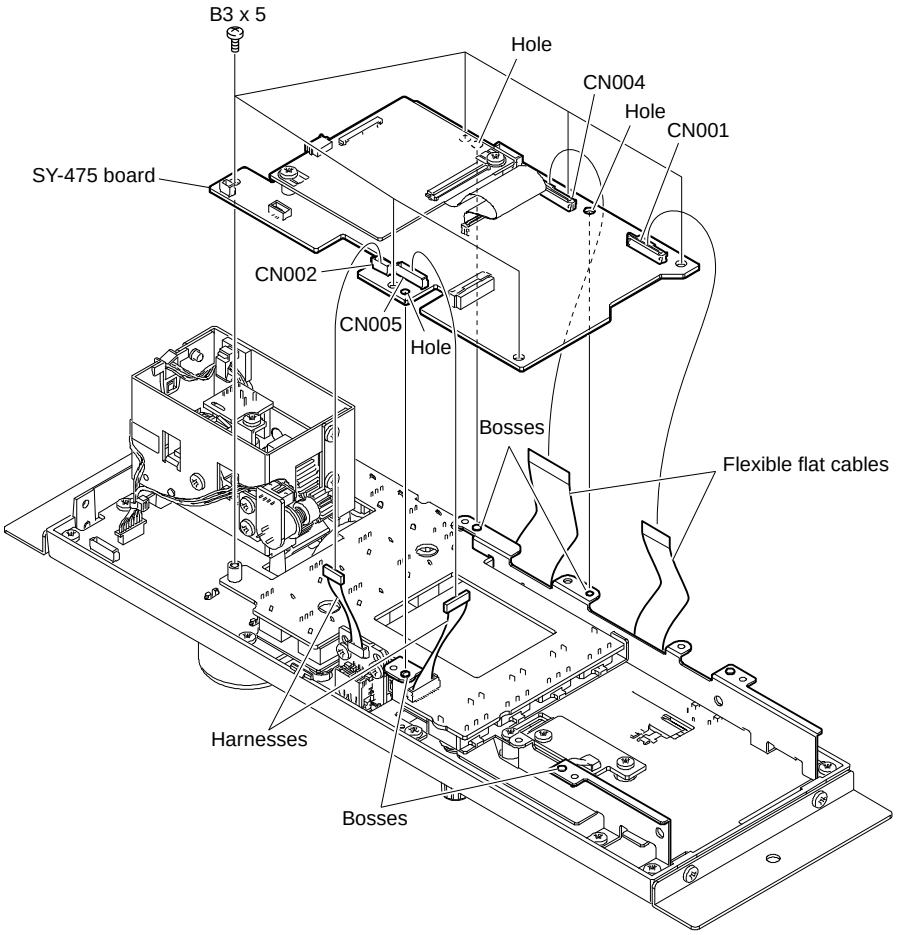
3-3-3. SY-475 Board, AT-195 Board

Preparation

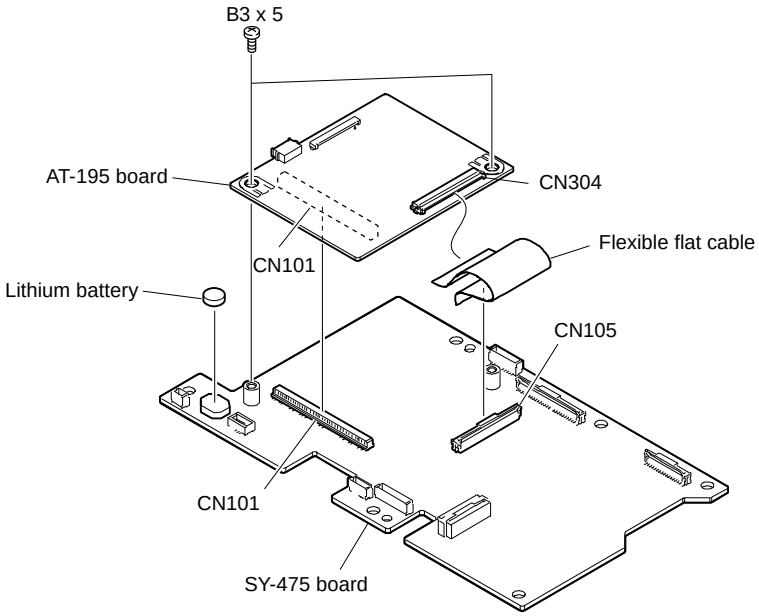
1. Remove the bottom chassis. (Refer to Section 3-2-1.)
2. Remove the connector bracket. (Refer to steps 1 and 2 in Section 3-3-1.)

Removal

1. Disconnect the two harnesses from the connectors (CN002, CN005) on the SY-475 board.
2. Disconnect the two flexible flat cables from the connectors (CN001, CN004) on the SY-475 board.
3. Remove the six screws, and then remove the SY-475 board.



4. Disconnect the flexible flat cable from the connector (CN304) on the AT-195 board and the connector (CN105) on the SY-475 board.
5. Remove the two screws, and then remove the AT-195 board.
6. Remove the lithium battery (CR2032).

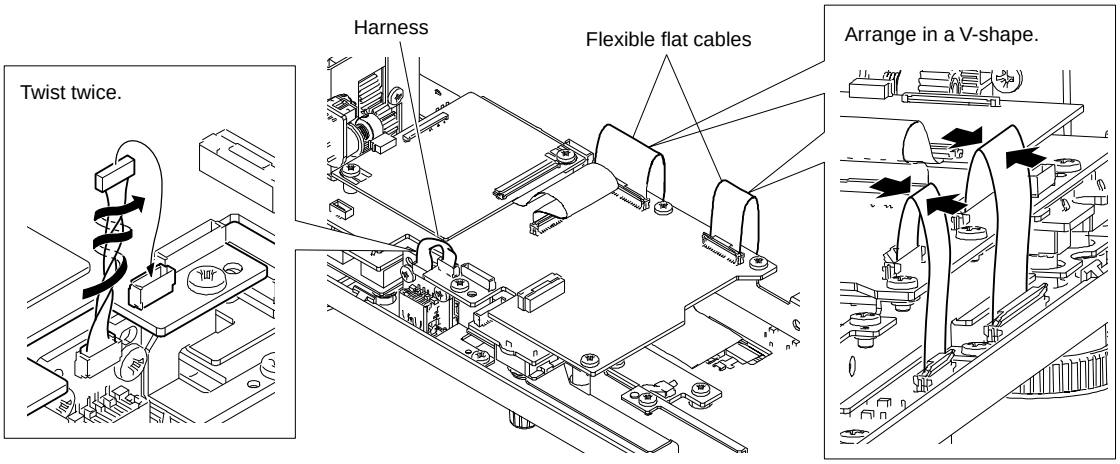


Installation

1. Attach the SY-475 board and the AT-195 board by reversing the steps of removal procedure.

Tip

- Twist the harness twice.
- After connecting the two flexible flat cables, arrange them in a V-shape by pinching them as shown in the figure.



3-3-4. VR-368 Board

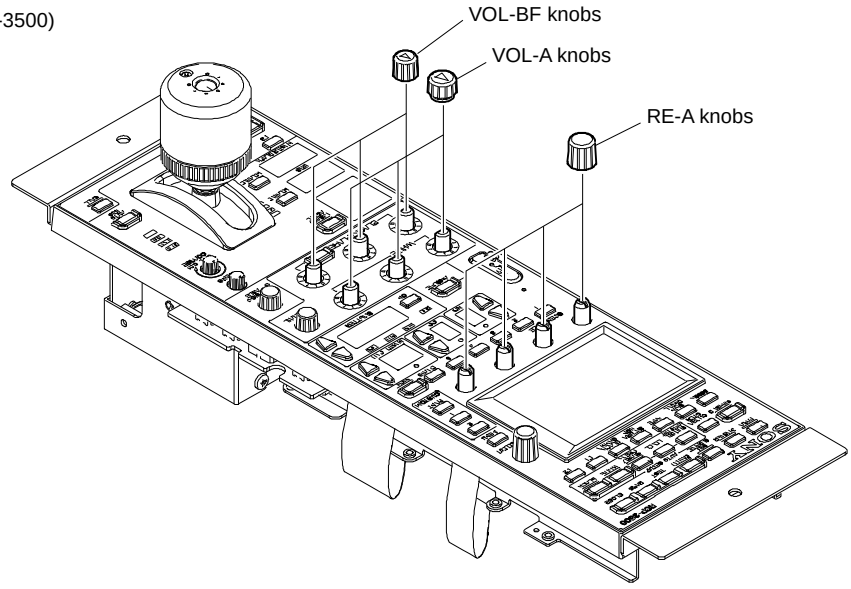
Preparation

1. Remove the bottom chassis. (Refer to Section 3-2-1.)
2. Remove the connector bracket. (Refer to steps 1 and 2 in Section 3-3-1.)
3. Remove the SY-475 board. (Refer to steps 1 to 3 in Section 3-3-3.)

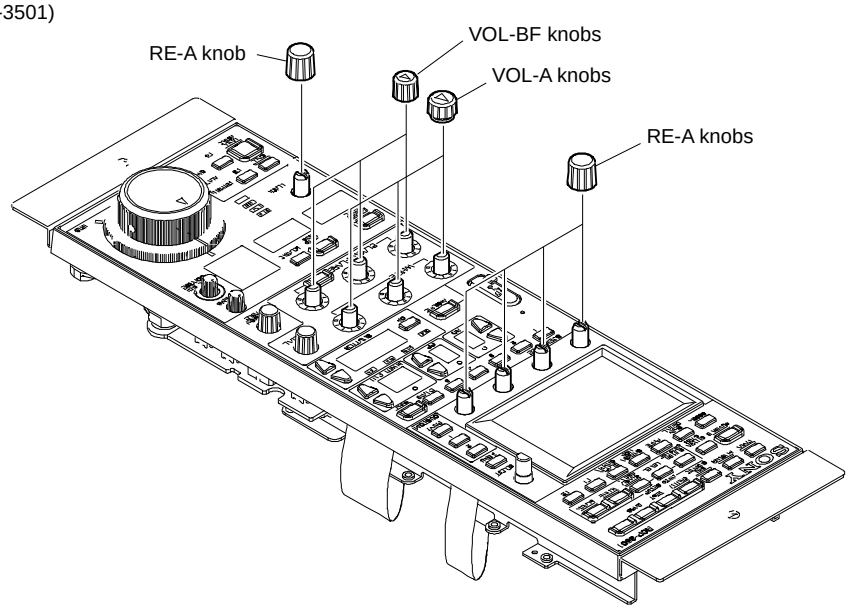
Removal

1. Remove the knobs shown in the figure.

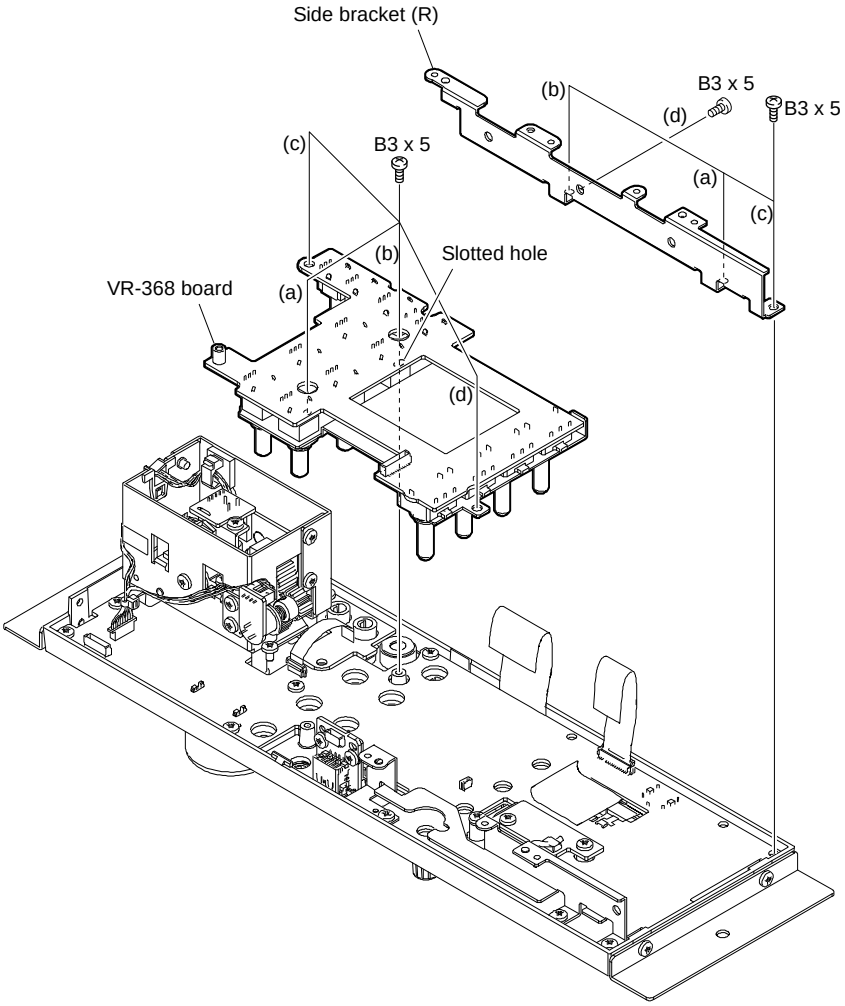
(RCP-3500)



(RCP-3501)



2. Remove the four screws, and then remove the side bracket (R).
3. Remove the four screws, and then remove the VR-368 board.



Installation

1. Attach the VR-368 board by reversing the steps of removal procedure.

Tip

- When attaching the side bracket (R), tighten the screws in the following sequence: (a), (b), (c), (d).
- When attaching the VR-368 board, tighten the screws in the following sequence: (a), (b), (c), (d).

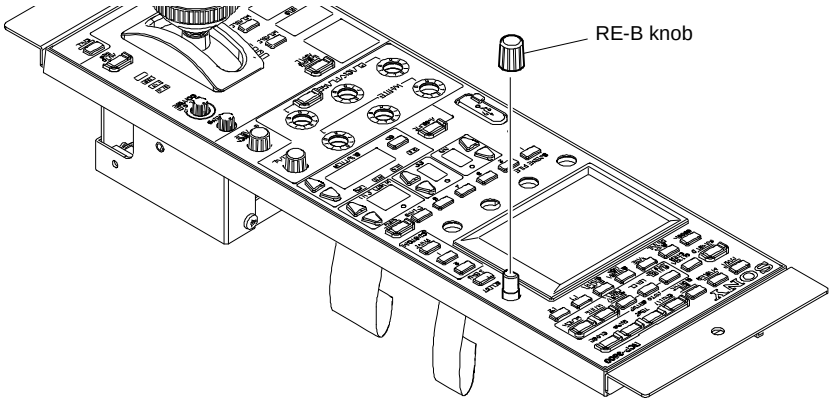
3-3-5. SW-1765 Board (RCP-3500)

Preparation

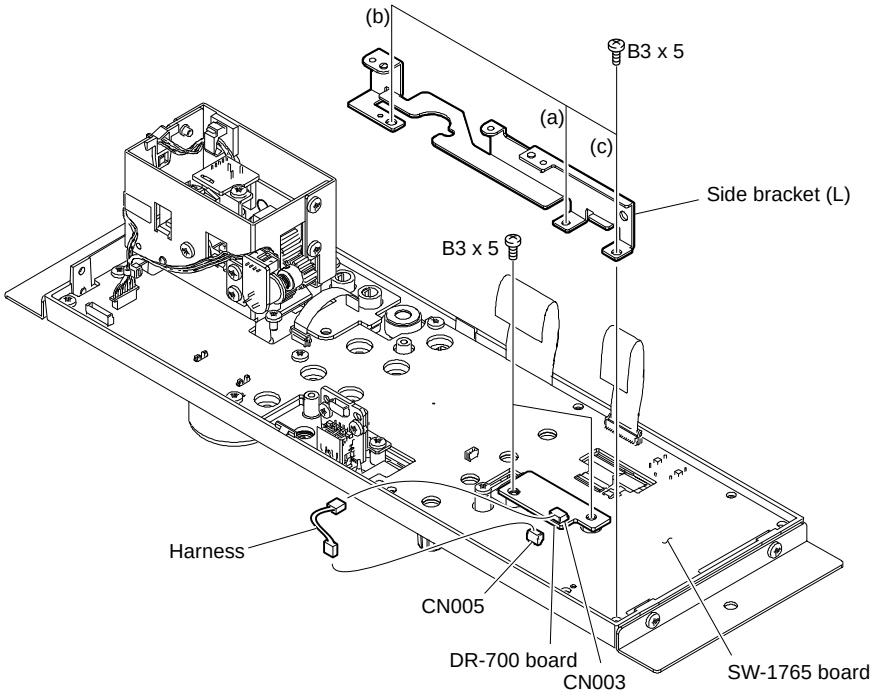
1. Remove the bottom chassis. (Refer to Section 3-2-1.)
2. Remove the connector bracket. (Refer to steps 1 and 2 in Section 3-3-1.)
3. Remove the SY-475 board. (Refer to steps 1 to 3 in Section 3-3-3.)
4. Remove the VR-368 board. (Refer to Section 3-3-4.)

Removal

1. Remove the RE-B knob.



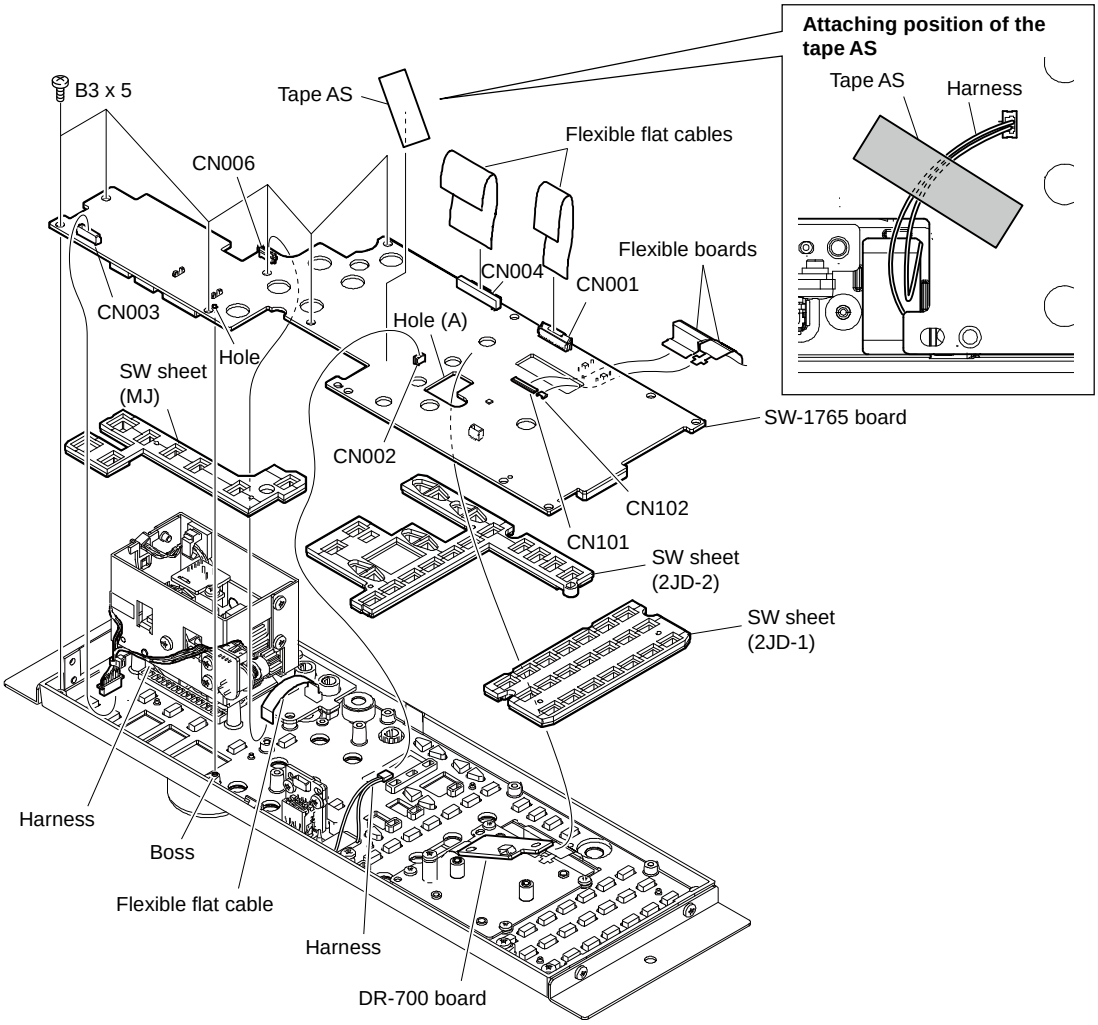
2. Disconnect the harness from the connector (CN003) on the DR-700 board and the connector (CN005) on the SW-1765 board.
3. Remove the two screws, and then remove the DR-700 board.
4. Remove the three screws, and then remove the side bracket (L).



5. Disconnect the three flexible flat cables from the connectors (CN001, CN004, CN006) on the SW-1765 board.
6. Peel off the tape AS.
7. Disconnect the two harnesses from the connectors (CN002, CN003) on the SW-1765 board.
8. Disconnect the two flexible boards from the connectors (CN101, CN102) on the SW-1765 board.
9. Remove the six screws.
10. Remove the DR-700 board through the hole (A), and then remove the SW-1765 board.

Note

After removing the board, be careful not to drop the unfixed parts (SW sheet (2JD-1), SW sheet (2JD-2), and SW sheet (MJ)).



Installation

1. Attach the SW-1765 board by reversing the steps of removal procedure.

Tip

- When attaching the side bracket (L), tighten the screws in the following sequence: (a), (b), (c).
- Attach the tape AS over the harness so that the harness stays on the board.

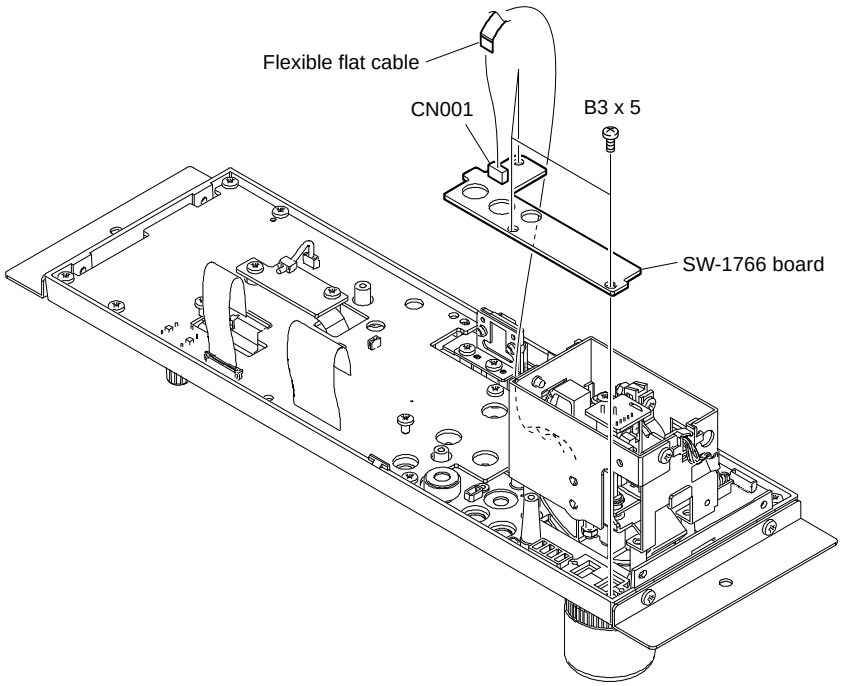
3-3-6. SW-1766 Board (RCP-3500)

Preparation

1. Remove the bottom chassis. (Refer to Section 3-2-1.)
2. Remove the connector bracket. (Refer to steps 1 and 2 in Section 3-3-1.)
3. Remove the SY-475 board. (Refer to steps 1 to 3 in Section 3-3-3.)
4. Remove the VR-368 board. (Refer to Section 3-3-4.)

Removal

1. Disconnect the flexible flat cable from the connector (CN001) on the SW-1766 board.
2. Remove the three screws, and then remove the SW-1766 board.



Installation

1. Attach the SW-1766 board by reversing the steps of removal procedure.

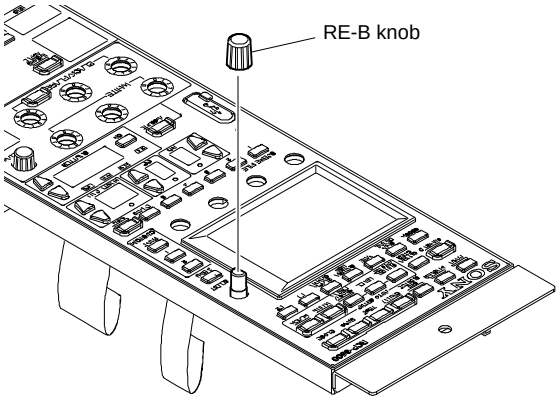
3-3-7. SW-1767 Board (RCP-3501)

Preparation

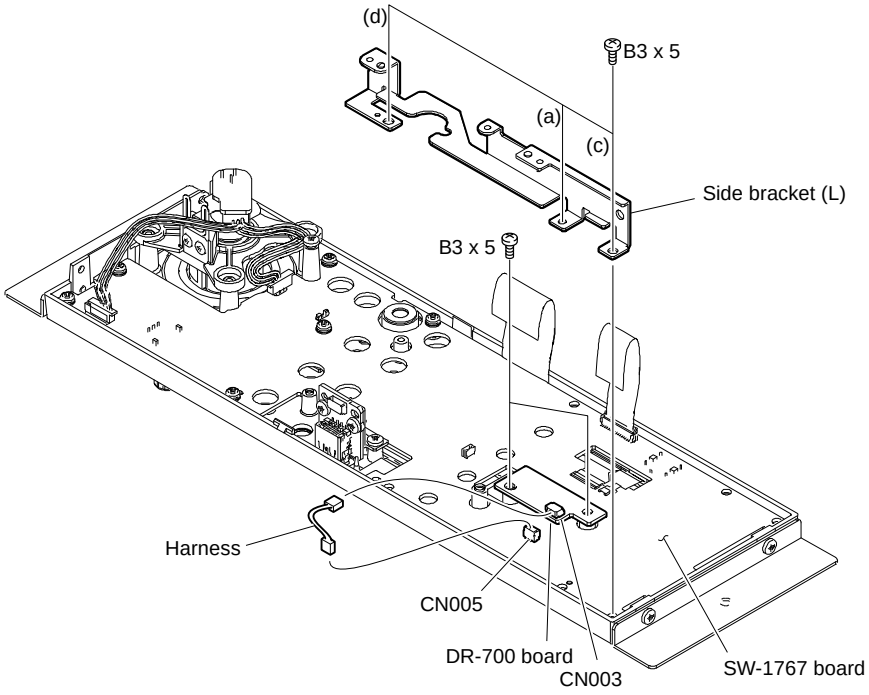
1. Remove the bottom chassis. (Refer to Section 3-2-1.)
2. Remove the connector bracket. (Refer to steps 1 and 2 in Section 3-3-1.)
3. Remove the SY-475 board. (Refer to steps 1 to 3 in Section 3-3-3.)
4. Remove the VR-368 board. (Refer to Section 3-3-4.)

Removal

1. Remove the RE-B knob.



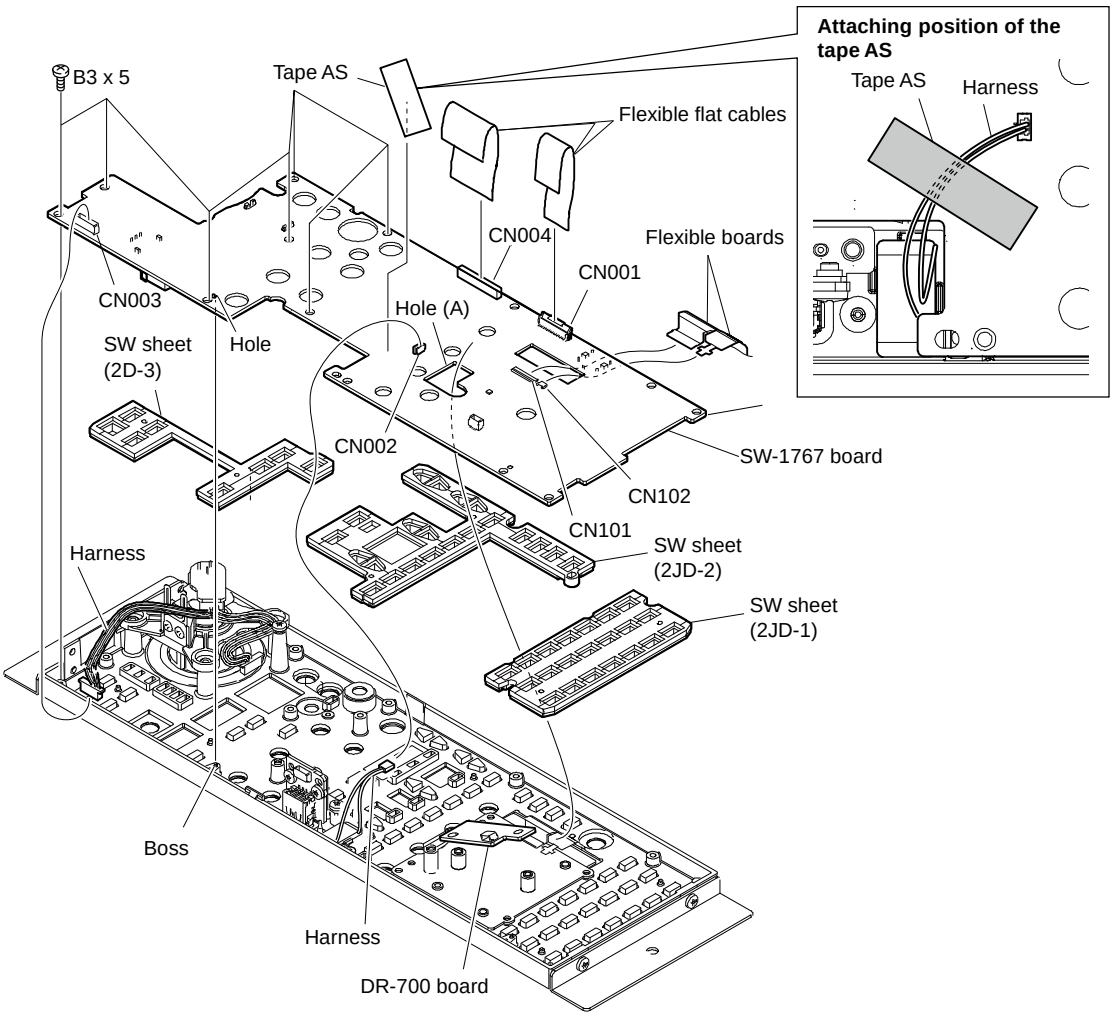
2. Disconnect the harness from the connector (CN003) on the DR-700 board and the connector (CN005) on the SW-1767 board.
3. Remove the two screws from the DR-700 board.
4. Remove the three screws, and then remove the side bracket (L).



5. Disconnect the two flexible flat cables from the connectors (CN001, CN004) on the SW-1767 board.
6. Peel off the tape AS.
7. Disconnect the two harnesses from the connectors (CN002, CN003) on the SW-1767 board.
8. Disconnect the two flexible boards from the connectors (CN101, CN102) on the SW-1767 board.
9. Remove the seven screws.
10. Remove the DR-700 board through the hole (A), and then remove the SW-1767 board.

Note

After removing the board, be careful not to drop the unfixed parts (SW sheet (2JD-1), SW sheet (2JD-2), and SW sheet (2D-3)).



Installation

1. Attach the SW-1767 board by reversing the steps of removal procedure.

Tip

- When attaching the side bracket (L), tighten the screws in the following sequence: (a), (b), (c).
- Attach the tape AS over the harness so that the harness stays on the board.

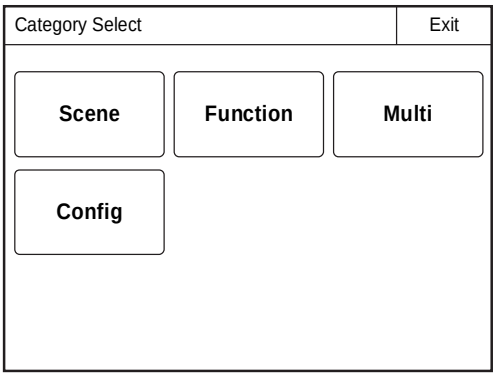
Section 4
Service Mode

Overview

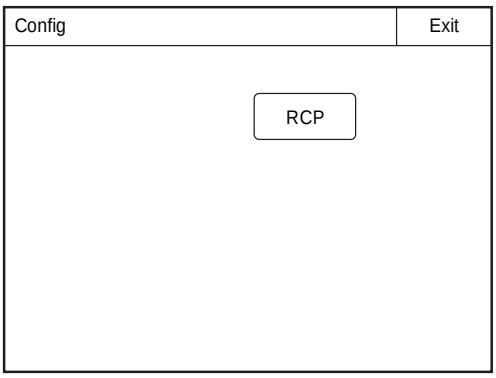
This unit has service mode useful for maintenance and adjustment. Various settings can be checked and modified using the service mode.

4-1. Activating the Service Mode

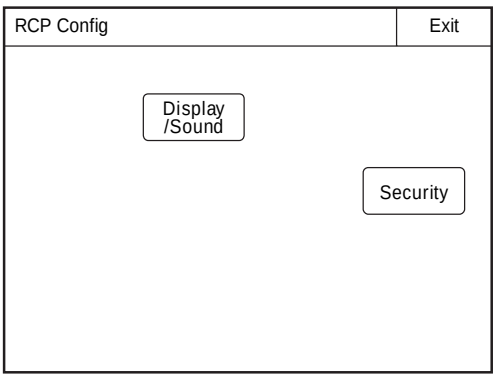
1. Press the [MENU] button on the unit to display the Category Select menu.



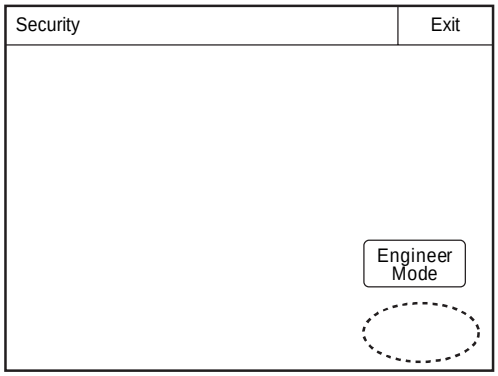
2. Press [Config] on the screen to display the Config menu.



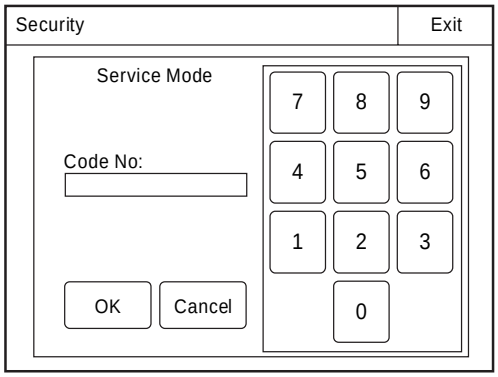
3. Press [RCP] to display the RCP Config menu.



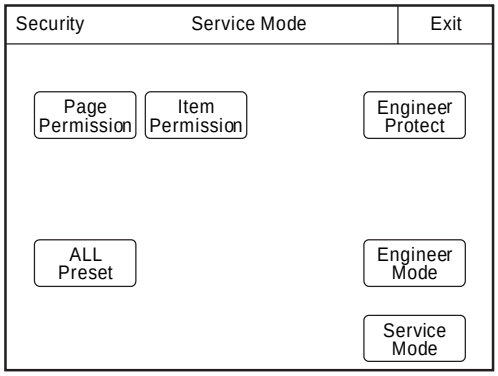
4. Press [Security] to display the Security menu.



5. Press the blank area under [Engineer Mode] (enclosed by dotted line in above figure) for five seconds to display the Code No. input screen.



6. Enter Code No. <05127900> and press [OK] to enter the service mode.



4-2. Updating the Firmware

Note

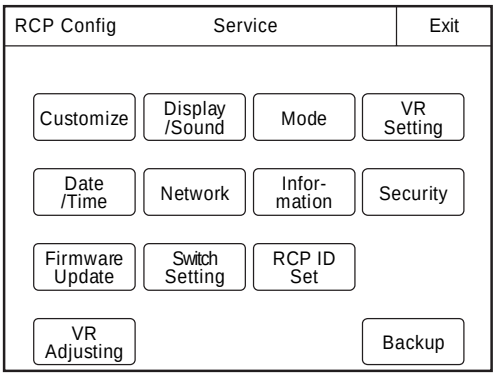
- For how to obtain the data file for update, contact your local Sony Sales Office/Service Center.
- Do not turn off the power during firmware update.

Required Equipment/Tools

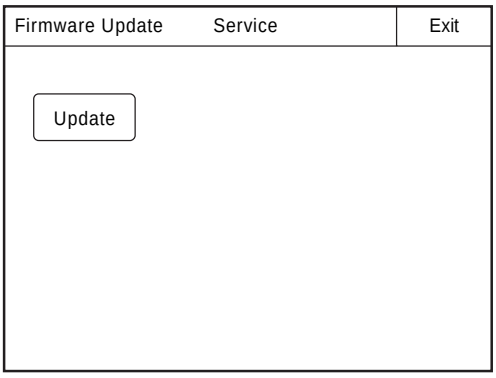
- USB memory (commercially available)
- Data file for update

Procedure

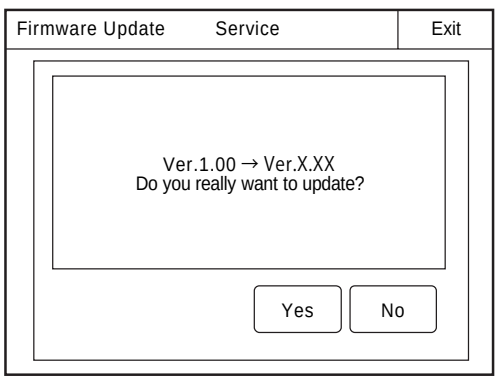
1. Create the following directory in the USB memory.
   ¥MSSONY¥PRO¥CAMERA¥RCP35XX
2. Copy the data file for update to this created directory.
3. Connect the USB memory with the update program written to the USB terminal of this unit.
4. Display the RCP Config menu in the service mode. (Refer to Section 4-1)



5. Press [Firmware Update] to display the Firmware Update menu.



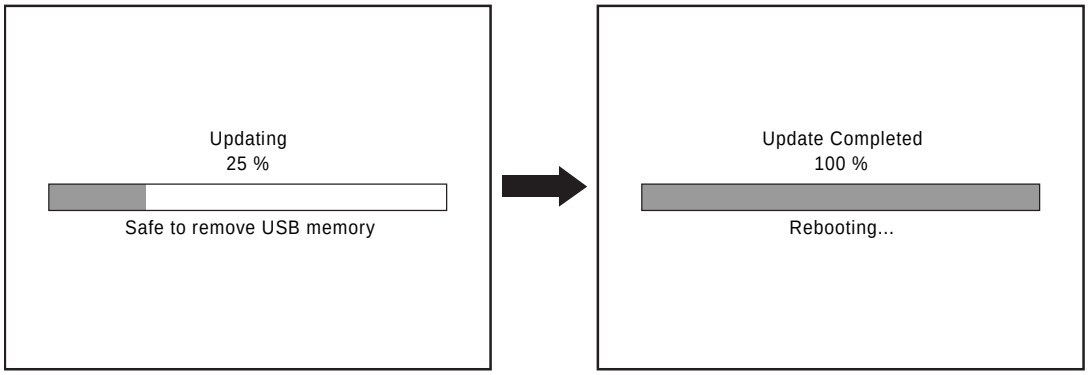
6. Press [Update] to display the confirmation screen.



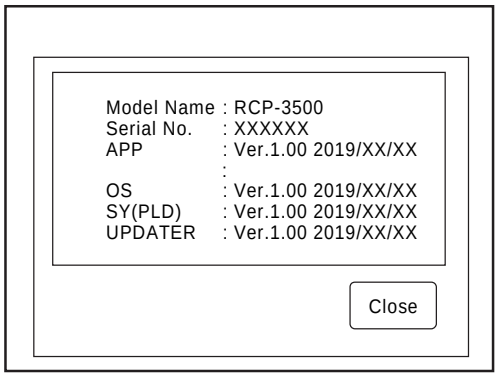
7. Press [Yes] to perform update of the main program.

Tip

A progress bar appears while the program is being updated.
The LCD screen is turned off and on several times during the update. Do not turn off the unit and wait until the update complete screen appears. When the progress bar reaches 100%, the unit restarts.



8. Confirm on the screen below that the update has been successfully completed.



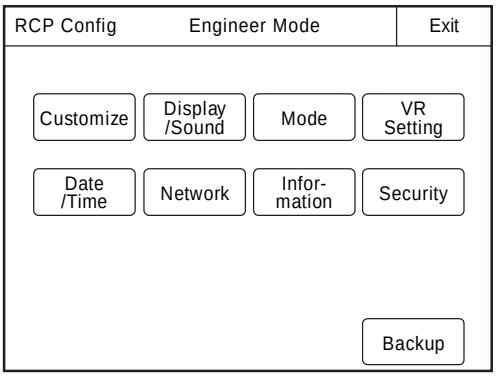
9. Press [Close] to finish the update.

Version check after completion of update

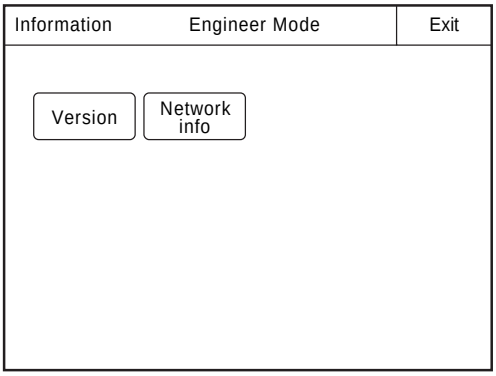
Perform the following procedure to check the program version after the update is completed.

Procedure

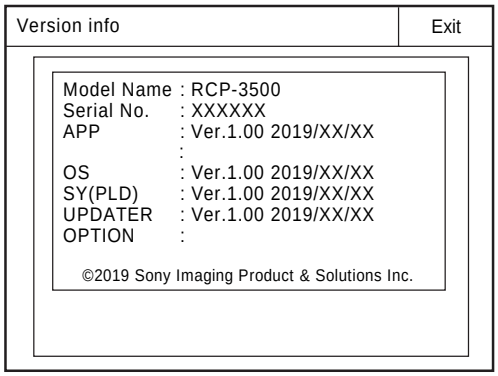
1. Press [Engineer Mode] from the Security menu to enter the engineer mode. (Refer to Section 4-1)
2. Display the RCP Config menu in the engineer mode.



3. Press [Information] to display the Information menu.



4. Press [Version] to display the Version Info. screen.



Tip

- If entire information is not displayed in the screen, turn the left-end rotary encoder under the LCD to scroll the display.
- The PLD version is displayed in the Information menu of service mode.

Forced update of the main program

Forced update is an emergency means of update. In case this unit malfunctions due to power-off during update of the main program or other reasons, the main program can be reset by forced update.

Procedure

1. Connect the USB memory with the update program written to the USB terminal of this unit.
2. Turn on the power while pressing the [PARA] button, [MASTER] button, and the SCENE FILE [STORE] button simultaneously.

   Note

   Keep pressing these three buttons until the update display appears on the LCD screen. The update starts automatically.

3. Confirm that the dialog box indicating completion of the forced update appears.
4. Press [Close] to finish the update.

4-3. VR Offset Adjustment

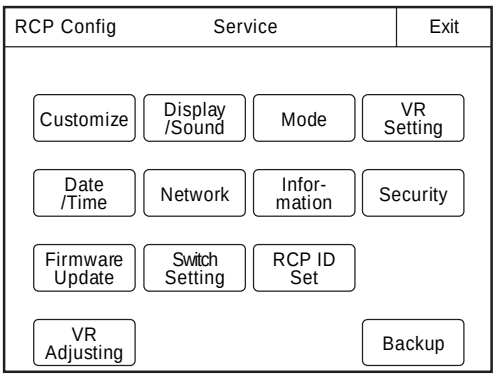
Set the variable range of the IRIS adjustment potentiometer or the MASTER BLACK adjustment potentiometer (RCP-3500 only).

Note

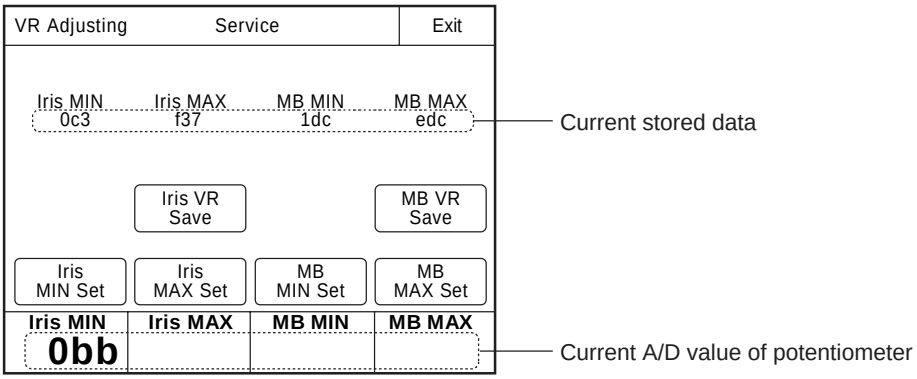
When any of these potentiometers or the AT-195E board is replaced, adjust the VR offset.

Procedure

1. Display the RCP Config menu in the service mode. (Refer to Section 4-1)



2. Press [VR Adjusting] to display the VR Adjusting menu.
   The current stored data is displayed at the upper part of the screen, and the current A/D value of the potentiometer is displayed in the Iris MIN field.



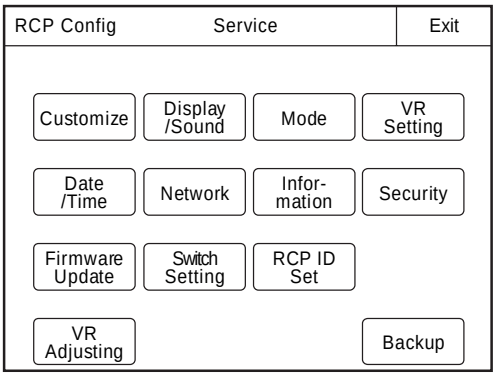
3. Set IRIS to the CLOSE end and press [Iris MIN Set] to set the data at the CLOSE end.
4. Set IRIS to the OPEN end and press [Iris MAX Set] to set the data at the OPEN end.
5. Press [Iris VR Save] to store the MIN data and MAX data in the EEPROM.
6. Set MASTER BLACK to MIN and press [MB MIN Set] to set the MIN data.
7. Set MASTER BLACK to MAX and press [MB MAX Set] to set the MAX data.
8. Press [MB VR Save] to store the MIN data and MAX data in the EEPROM.
9. Press [Exit] to exit the setting mode.

4-4. PANEL ACTIVE Toggle Mode Setting

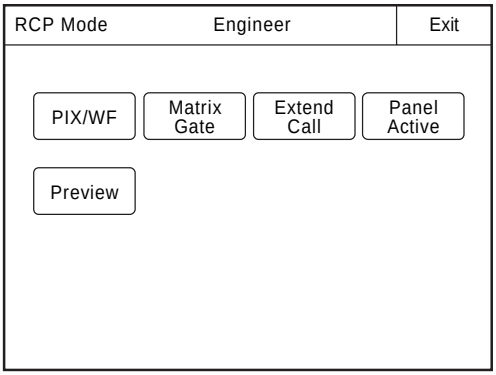
When a CNU system or a camera network system is constructed with the MCS (Multi Camera System) mode, if display is turned off with the [PANEL ACTIVE] button, PANEL ACTIVE does not exist normally in any PANEL. Setting the mode to the PANEL ACTIVE toggle mode allows returning of PANEL ACTIVE to the panel that was ACTIVE when PANEL ACTIVE was acquired.

Procedure

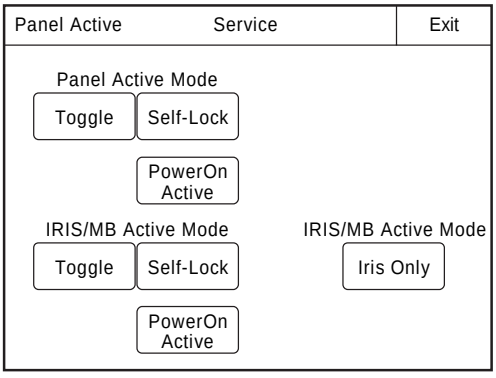
1. Display the RCP Config menu in the service mode. (Refer to Section 4-1)



2. Press [Mode] to display the RCP Mode menu.



3. Press [Panel Active] to display the Panel Active menu.



4. Press [Toggle] to set Toggle Control Mode to ON.

Note

- To return PANEL ACTIVE, set Toggle Control Mode of all PANEL to be returned to ON.
- To restore the normal operation, set Toggle Control Mode to OFF.

Section 5
Self-Diagnosis

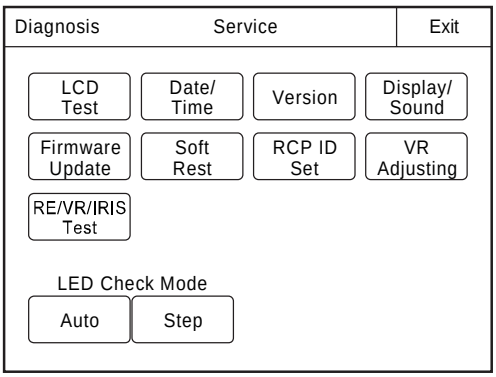
Overview

This unit has a self-diagnosis mode for internal trouble. Abnormality of illumination switch, LED indicator, rotary encoder on the control panel can be confirmed in the self-diagnosis mode of this unit.

5-1. Starting the Self-Diagnosis

Procedure

1. Press the [PARA] button, [MASTER] button, and the SCENE FILE [1] button of the unit simultaneously to display the Diagnosis menu.



Menu	Overview
LCD Test	A test pattern can be displayed and used to check the LCD display.
Date/Time	Display the setting screen.
Version	Display the setting screen.
Display/Sound	Display the setting screen.
Firmware Update	Display the setting screen.
Soft Reset	Reset all settings to the factory settings.
RCP ID Set	Display the setting screen.
VR Adjusting	Display the setting screen.
RE/VR/IRIS Test	Used to check the operation of the rotary encoder and volume.
LED Check Mode	Used to check the lighting of the LED indicator.

5-2. Closing the Self-Diagnosis Mode

Procedure

1. Press the [PARA] button, [MASTER] button, and the SCENE FILE [1] button of the unit simultaneously or press [Exit] on the screen to exit the Diagnosis menu.

5-3. Device

Operation of the illuminated switches, LED indicators, and rotary encoders on the control panel can be checked by the self-diagnosis mode of the unit.

Note

If the correct mode is not enabled or the correct screen does not appear even when the setting button or an adjustment item button is pressed, be sure to check the operation.

Procedure

1. Start the Diagnosis (Self-diagnosis) menu.
2. Check the operation check of each device.

5-3-1. Check Illuminated Switch

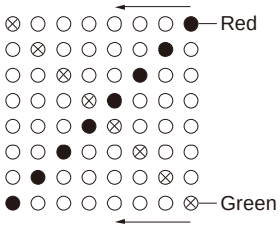
Procedure

1. When pressing each illuminated switch, check that the switch lights.

5-3-2. Check Indicator

Procedure

1. Check that the red and green cross display in the camera number/tally display area moves from right to left.



2. Make sure that the EXT indicator of the IRIS adjusting block blinks.
3. Make sure that the 7-segment LEDs of ECS/ SHUTTER, GAMMA, MASTER GAIN control blocks and MASTER BLACK and IRIS adjusting blocks light up in the following order.

Section 6
Circuit Description

6-1. AT-195E Board

The AT-195 board is used in common for system cameras.
IC001 on this board is an NXP processor (1GHz dual-core CPU) provided with interfaces for graphics, USB, Ethernet, PCIe, etc.
IC205 is a power management IC (PMIC) that generates voltages required for the CPU and memory devices.
IC401 is an 8-gigabyte eMMC that stores the firmware program and settings of the unit.
IC601 and IC602 are 4-gigabit LPDDR3.
The AT-195 board is connected to the SY-475 board using the 160-pin B to B connector CN101.
Depending on models, different firmware programs are stored on the AT-195 board. When replacing this board, be sure to replace it with a complete AT-195E board (part number: A-5016-202-A) with programmed firmware.

6-2. CN-4111 Board

The CN-4111 board contains a USB connector. This board is connected to the SY-475 board from the connector CN002.

6-3. CN-4113 Board

The CN-4113 board contains a network connector (RJ-45 type) for connection to a network and an EXT I/O connector (9-pin D-sub) for external interface.
Be sure to use the same component for the fuse used on this board.

6-4. CN-4112 Board

The CN-4112 board contains a CCU/CNU REMOTE connector (multi-connector) for connection to the CCU or CNU and an AUX REMOTE connector for connection to the second RCP.
This board is connected to the CN-4113 board from the connector CN003.

6-5. DR-700 Board

The DR-700 board contains an EL sheet driver. This board is connected to the SY-475 board from the connector CN003.
The DR-700 board is connected to the EL sheet through CL001 and CL002 to control the drive voltage and ON/OFF of the EL sheet.

6-6. SW-1765/SW-1767 Boards

The SW-1765 or SW-1767 board is switch signal input/output board provided with switches and LEDs for the front panel.
IC101 generates a voltage of +3.7 V for driving LEDs. IC118 and IC119 generate voltages of +3.3 V and +3.0 V for interface with the SY-475 board.
IC114 is an EEPROM and IC120 is an I2C PIO used to identify models.
IC103, IC104, IC105, and IC205 convert the amplitudes of signals from the SY-475 board to +5 V, and then transfer the +5 V amplitude to the LED driver.
IC106, IC107, and IC108 convert input switch signals to a serial signal, and then output the serial signal to the SY-475 board.
IC112 is an LED backlight driver for the LCD.
Brightness sensors IC109, IC110, and IC117 sense the brightness of the EL sheet and the brightness of outside light. The CPU captures the brightness sent from the sensors and controls the drive voltage and ON/OFF of the EL sheet. Q327 to Q329 compose an EL sheet brightness control circuit to vary the oscillating frequency of ICs on the DR-700 board.

The serial signal generated by the PLD on the SY-475 board is used to control ON/OFF of all LEDs and adjust their brightness using the PWM method.
IC201 to IC207 and IC601 to IC605 are serial/parallel converter ICs to drive LEDs at +5.2 V.
IC301, IC302, IC303, IC501, and IC502 are serial/parallel converter ICs to drive the 7-segment LEDs. Because a large current flows in these ICs, digital transistors and FETs are used to drive them at +3.7 V.
IC401, IC402, and IC403 are serial/parallel converter ICs for dot matrix LEDs to display the camera number and TALLY. Digital transistors and FETs are used to scan 64 × 64 double-color LEDs. A power voltage of +3.7 V is used.
The connector CN003 connected to the iris assembly is used to send analog voltages buffered in IC607 to the SY-475 board.

6-7. SW-1766 Board

The SW-1766 board is used for the switches and LEDs at the right of the joystick.
This board contains only RCP-3500.

6-8. SY-475 Board

The SY-475 board is a system control board that contains a PLD to control the SW-1765 or SW-1767 board, a PoE power circuit, a DC/DC converter, and a LAN controller. This board functions as an interface with the AT-195E board and peripheral devices.
Signals from the external connector are input from the connector CN003. Signals from the LAN connector are input through the diode bridge (D101, D102) to the PoE power circuit, and are then input to the LAN controller through T101 to T104.
The LAN controller IC101for PCIe connection conforms to 1000BASE-T.
The EEPROM IC102 for the LAN controller stores the MAC address. When replacing the SY-475 board, replace it with a complete SY-475 board (part number: A-5016-203-A) that stores the MAC address. Do not replace the EEPROM because the MAC address is stored at the manufacturer.
PH103 and PH104 are photocouplers to receive 700 protocol signals. The 700 protocol controller is contained in the PLD.
Together with Q107, T105, IC105, D120, and D121, the DCDC controller IC104 that contains a PoE control circuit generates a voltage of +14 V from the voltage supplied from the LAN connector.
When a voltage is input from the CCU/CNU or EXT I/O connector, IC103 turns off the PoE power circuit to reduce power consumption.
IC201, IC202, IC218, Q201, and Q202 form an ORING circuit that uses a high voltage from the three connectors (PoE connector, CCU/CNU connector, and EXT I/O connector) as the voltage for this unit. IC218 also functions as a protective circuit for EXT I/O that prevents overvoltage, reverse connections, and excessive current in the AUX connector.
The DC/DC converter IC204 generates a voltage of +5.2 V from the ORING input. IC206, IC207, and IC208 generate a voltage of +3.7 V to be supplied to the AT-195E board from +5.2 V, and an internal voltage used in the SY-475 board.
IC503 and IC504 generate voltages +1.2 V and +2.5 V for the PLD.
IC209 to IC212 are 12-bit A/D converters to read input signals of the iris assembly connected through the SW-1765 or SW-1767 board, the VR voltage input from the VR-368 board, brightness sensor signals, and input voltage and current values.
IC213 to IC216 are A/D converters that generate amplifier signals and audio signals to drive the speaker.
The real-time clock (RTC) IC304 drives the internal clock with the rechargeable battery (ML621) and the electric double-layer capacitor C308. If the unit is turned off for a long period, the internal battery voltage drops and the clock time in the RTC is reset. When the time setting is reset, the ALARM indicator on the unit blinks yellow.
IC308 is an EEPROM and IC303 is a PIO used to identify models, which are connected to the AT-195E board.
IC306 is a USB current limiting IC to limit the USB connector current to 100 mA while the RCP is operating. This IC releases the USB connector current to 500 mA while the USB is used (such as file access).
The connector CN105 is used to receive LCD data from the AT-195E board. The connectors CN001 and CN004 connected to the SW-1765 or SW-1767 board is used to receive input switch signals, LED lighting control signals, and LCD data.
The PLD IC401 is controlled by the AT-195E board. This PLD generates a serial signal to control ON/OFF, blinking, and brightness of the LEDs on the SW-1765 or SW-1767 board and converts the serial signal from the SW-1765 or SW-1767 board to parallel signals to acquire the status of the switches and the encoder.

Section 7
Spare Parts

7-1. 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.

4. Harness

Harnesses with no part number are not registered as spare parts.

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

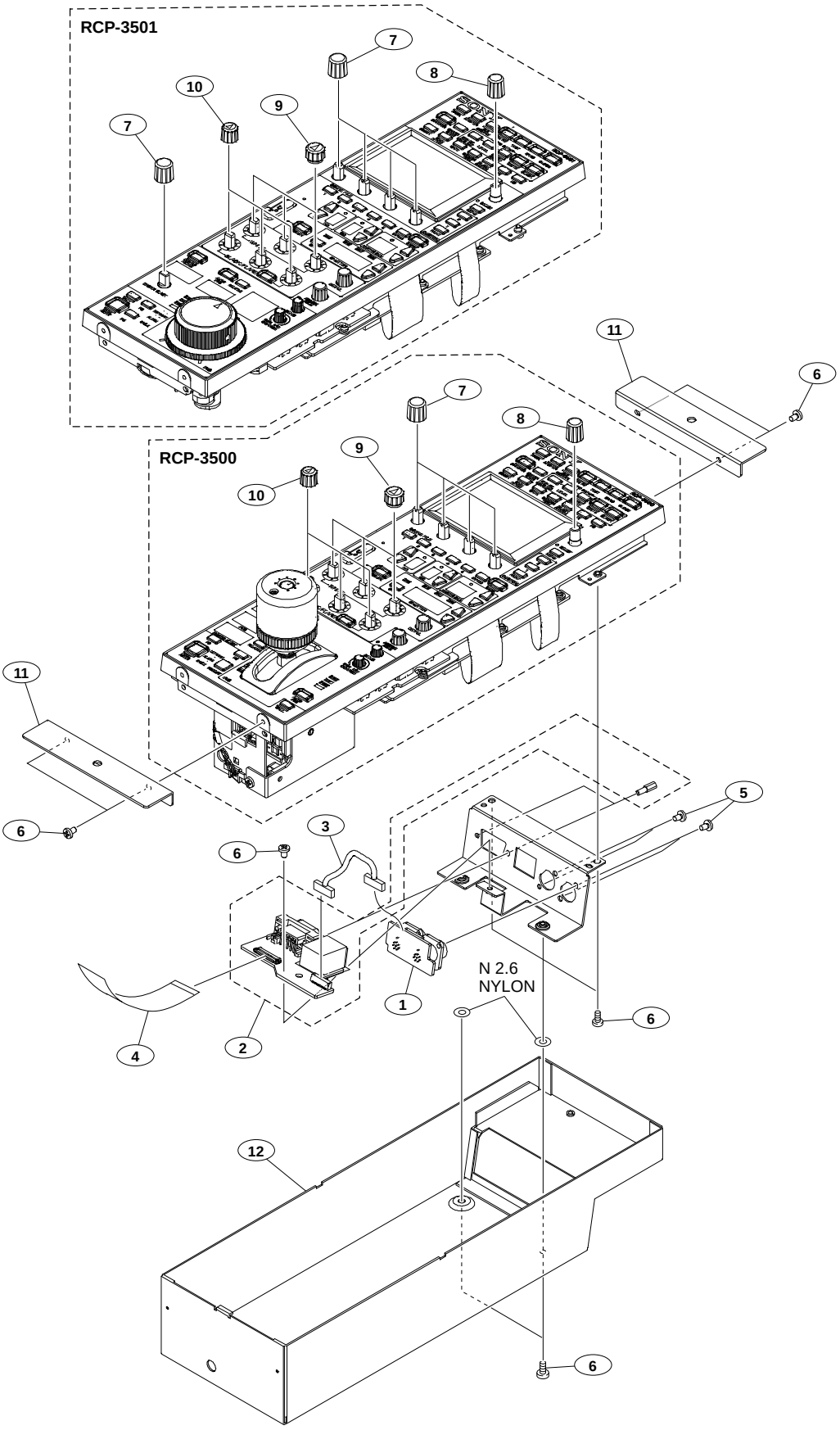
部品表のSP（Supply code）欄に “o” で示される部品は在庫していないことがあり，納期が長くなることがあります。

4. ハーネス

部品番号の記載されていないハーネスは，サービス部品として登録されていません。

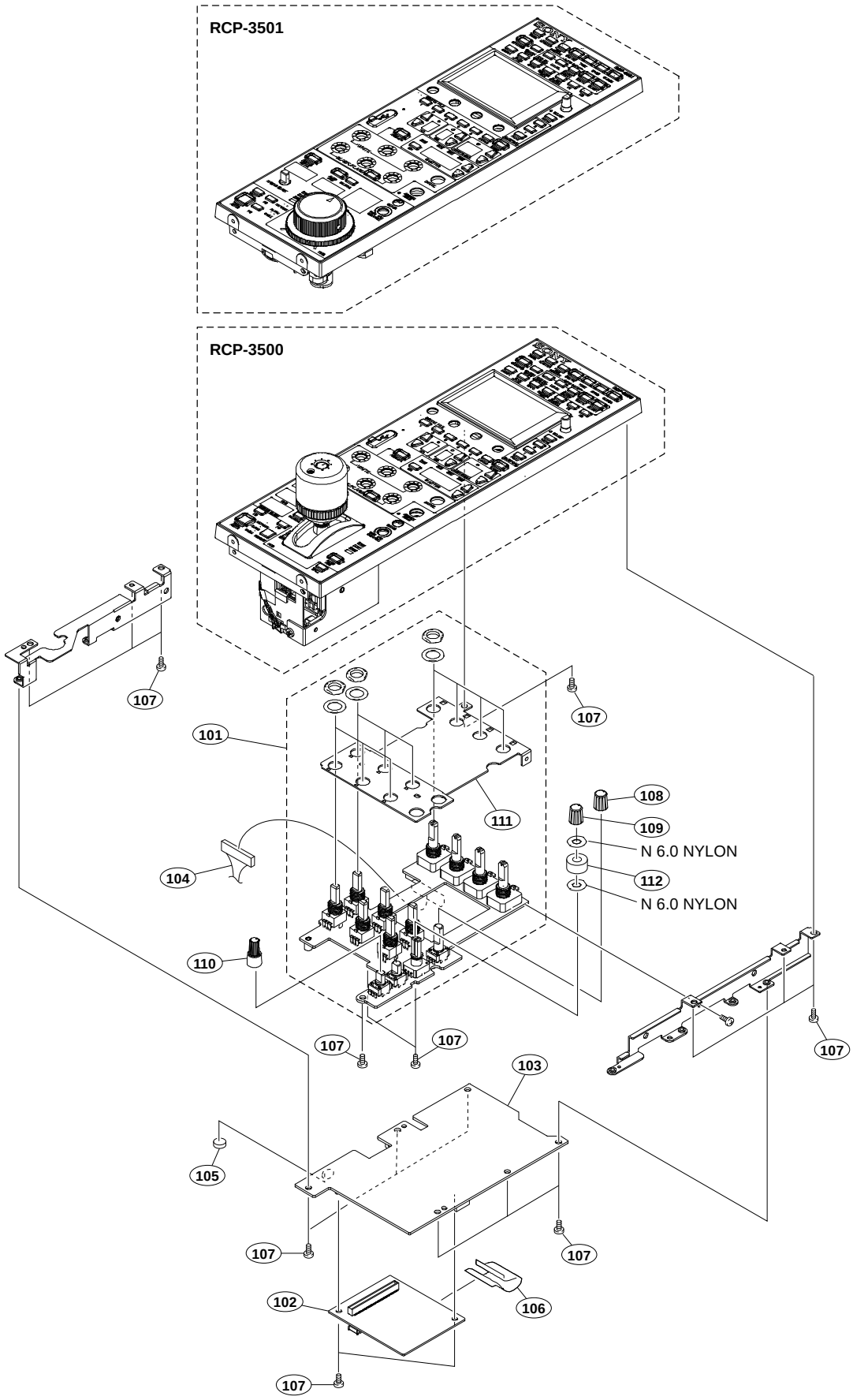
7-2. Exploded Views

Connector Block



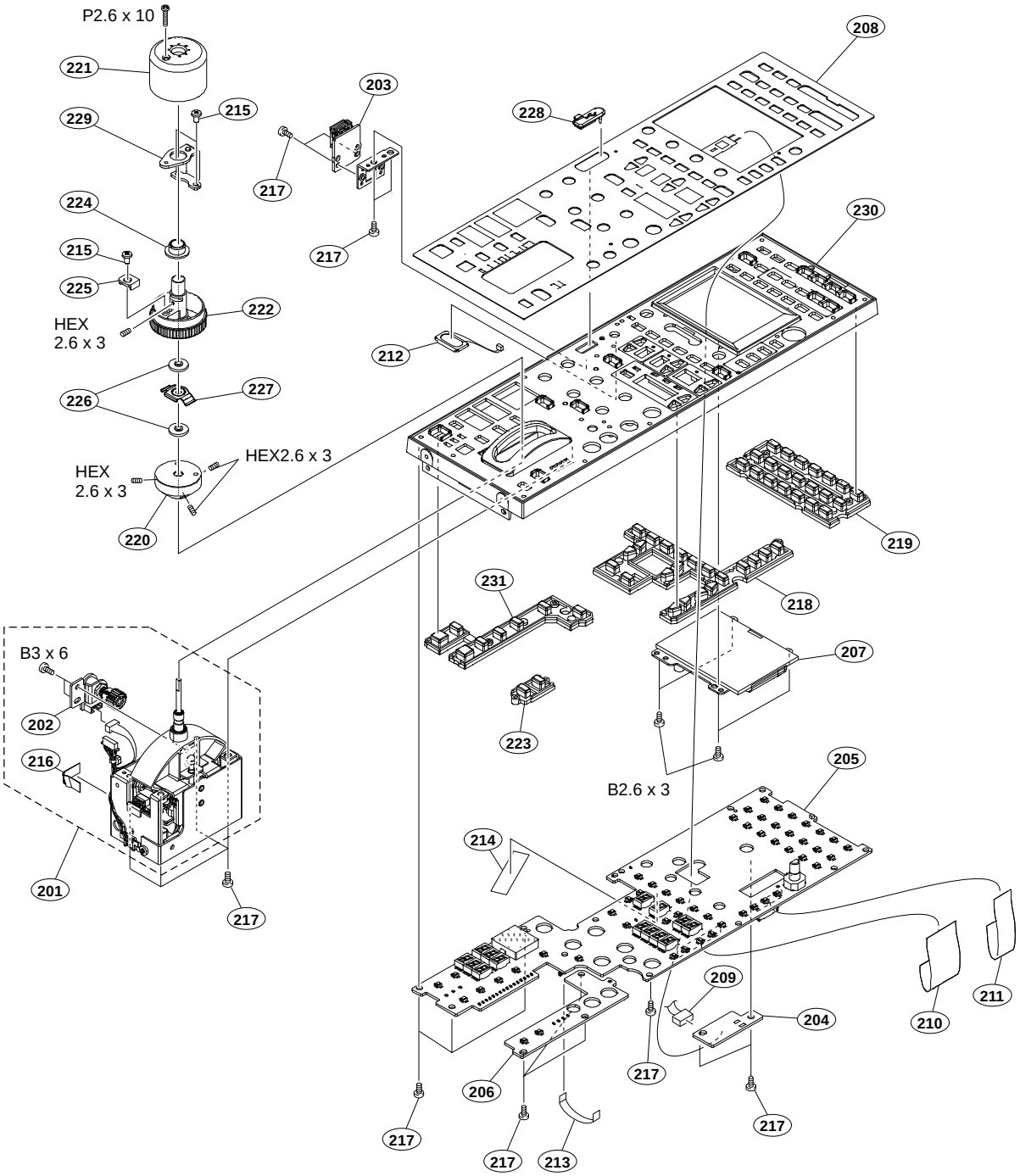
No.	Part No.	SP	Description
1	A-5007-941-A	s	CN-4112 MOUNT
2	A-5007-942-A	s	CN-4113 MOUNT
3	1-004-195-11	s	SUB HARNESS (POWER)
4	1-849-299-11	s	CABLE, FLEXIBLE FLAT (30 CORE)
5	3-637-901-02	s	SCREW M2.6X5
6	4-150-565-01	s	SCREW +B 3X5 NI (SCOTCH GRIP)
7	4-169-753-01	s	KNOB-RE-A
8	4-169-756-01	s	KNOB-RE-B
9	4-169-757-02	s	KNOB-VOL-A
10	4-180-814-02	s	KNOB-VOL-BF
11	4-563-341-01	s	RACK BRACKET (2)
12	4-563-344-02	s	BOTTOM CHASSIS (2)
	7-623-923-11	s	WASHER 2.6, NYLON

Board Block-1



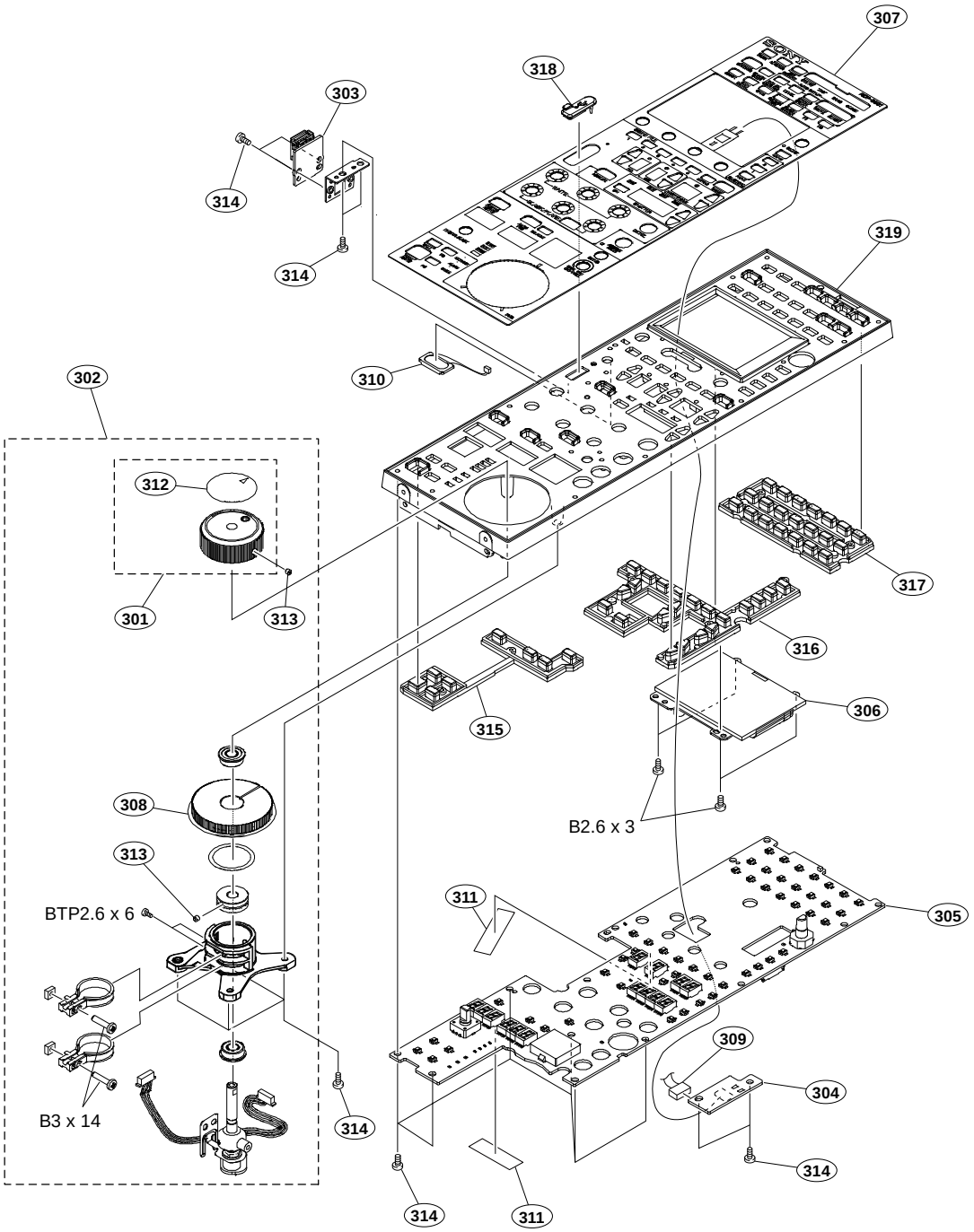
No.	Part No.	SP	Description
101	A-5008-020-A	s	VR-368 MOUNT
102	A-5016-202-A	s	AT-195E COMPL
103	A-5016-203-A	s	SY-475 COMPL
104	1-004-195-11	s	SUB HARNESS (POWER)
105	1-756-134-18	s	BATTERY, LITHIUM (SECONDARY)
106	1-848-535-11	s	CABLE, FLEXIBLE FLAT (50 CORE)
107	4-150-565-01	s	SCREW +B 3X5 NI (SCOTCH GRIP)
108	4-169-758-01	s	KNOB-VOL-B
109	4-169-758-11	s	KNOB-VOL-B
110	4-180-813-01	s	KNOB-VOL-SC
111	4-563-350-01	s	PLATE VOL (2)
112	5-013-847-01	s	CUSHION, KNOB
	7-623-927-01	s	WASHER 6.0, NYLON

Joystick Unit and Board Block-2 (RCP-3500)



No.	Part No.	SP	Description
201	A-1746-346-E	s	ASSY,J IRIS
202	A-1752-241-A	s	ASSY,J IRIS VOLUME
203	A-5007-940-A	s	CN-4111 MOUNT
204	A-5007-943-A	s	DR-700 MOUNT
205	A-5007-945-A	s	SW-1765 MOUNT
206	A-5007-946-A	s	SW-1766 MOUNT
207	A-5017-092-A	s	3 INCH LCD ASSY (RCP-3500)
208	A-5017-093-A	s	EL SHEET ASSY (RCP-3500)
209	1-004-196-11	s	SUB HARNESS (EL)
210	1-848-535-11	s	CABLE, FLEXIBLE FLAT (50 CORE)
211	1-849-299-11	s	CABLE, FLEXIBLE FLAT (30 CORE)
212	1-858-528-71	s	SPEAKER(2-1CM)
213	1-912-731-11	s	CABLE, FLEXIBLE FLAT (12 CORE)
214	3-079-115-01	s	TAPE AS
215	3-364-941-01	s	SCREW (+B) (2.6X5), NYLOK
216	4-121-494-01	s	TAPE (7X30)
217	4-150-565-01	s	SCREW +B 3X5 NI (SCOTCH GRIP)
218	4-169-761-02	s	SW-SHEET (2JD-2)
219	4-169-762-02	s	SW-SHEET (2JD-1)
220	4-169-766-02	s	KNOB BASE
221	4-169-767-01	s	KNOB COVER
222	4-169-768-02	s	KNOB MB
223	4-169-769-02	s	SW-SHEET (0D-3)
224	4-171-600-02	s	BUSH
225	4-178-547-01	s	STOPPER,MB
226	4-264-125-01	s	WASHER POM
227	4-285-535-01	s	SPRING,LEAF
228	4-478-730-02	s	CAP, USB
229	4-563-349-01	s	KNOB COVER BRACKET
230	4-684-989-11	s	FRONT PANEL (2J)
231	5-009-190-01	s	SW SHEET(MJ)
	7-621-734-09	s	SET-SCT,HEX. 2.6X3
	7-621-775-08	s	SCREW +B 2.6X3
	7-627-557-48	s	SCREW,PRECISION +P2.6X10 TYPE1
	7-682-547-04	s	SCREW +B 3X6

Dial Unit and Board Block-2 (RCP-3501)



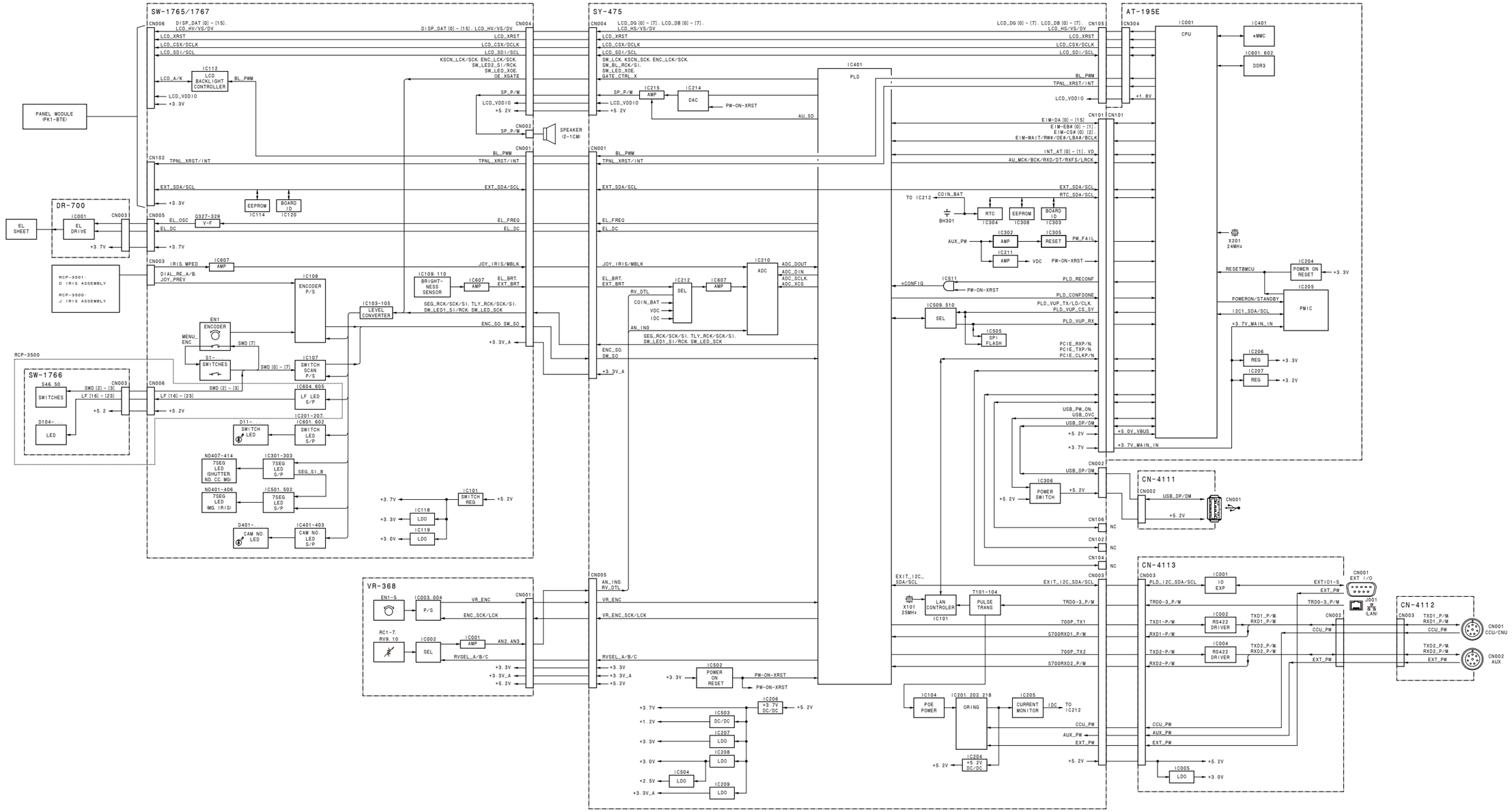
No.	Part No.	SP	Description
301	A-1752-782-B	s	ASSY,D IRIS KNOB
302	A-2188-462-A	s	ASSY,D IRIS
303	A-5007-940-A	s	CN-4111 MOUNT
304	A-5007-943-A	s	DR-700 MOUNT
305	A-5007-947-A	s	SW-1767 MOUNT
306	A-5017-092-A	s	3 INCH LCD ASSY (RCP-3500)
307	A-5017-094-A	s	EL SHEET ASSY (RCP-3501)
308	X-2515-573-3	s	ASSY IRIS GAUGE
309	1-004-196-11	s	SUB HARNESS (EL)
310	1-858-528-71	s	SPEAKER(2-1CM)
311	3-079-115-01	s	TAPE AS
312	3-681-098-01	o	DIAL POINTER
313	3-701-505-01	s	SET SCREW, DOUBLE POINT 3X3
314	4-150-565-01	s	SCREW +B 3X5 NI (SCOTCH GRIP)
315	4-169-736-02	s	SW-SHEET (2D-3)
316	4-169-761-02	s	SW-SHEET (2JD-2)
317	4-169-762-02	s	SW-SHEET (2JD-1)
318	4-478-730-02	s	CAP, USB
319	5-001-835-11	s	FRONT PANEL (2D)
	7-621-775-08	s	SCREW +B 2.6X3
	7-682-551-04	s	SCREW +B 3X14
	7-685-533-19	s	SCREW +BTP 2.6X6 TYPE2 N-S

7-3. Supplied Accessories

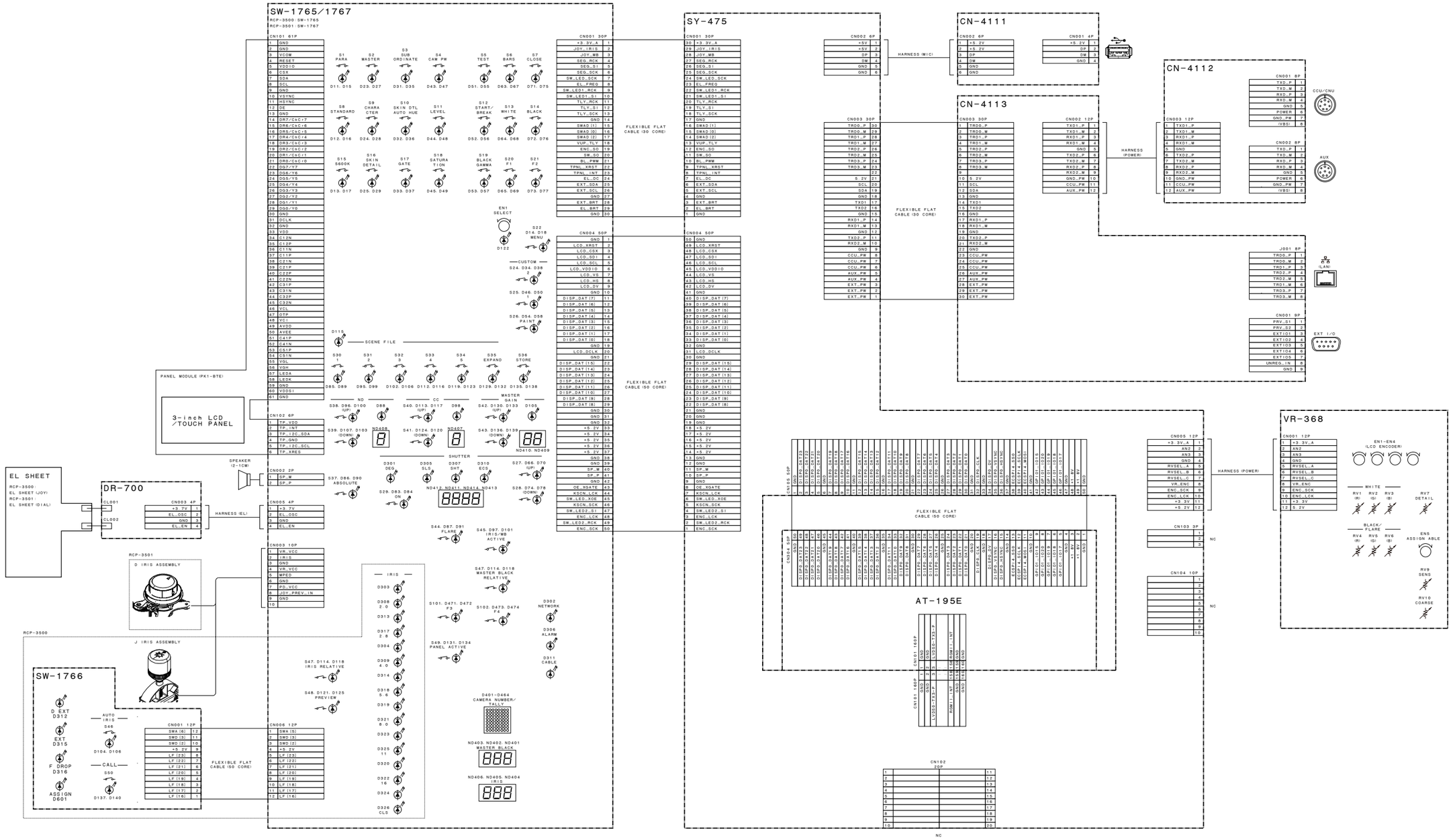
Q'ty	Part No.	SP	Description
1pc	⚠ 5-017-035-41	s	BEFORE USING THIS UNIT

Section 8
Diagrams

Overall



Frame Wiring



Revision History

Date	History	Contents
2019. 12	1st Edition 9-932-737-01	—

RCP-3500 (SY) J,E
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9-932-737-01 V1.00A

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