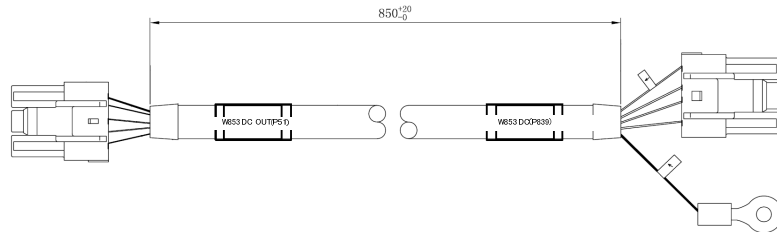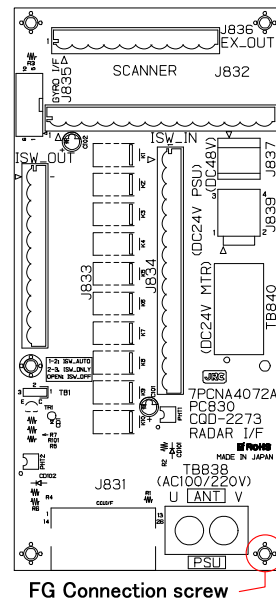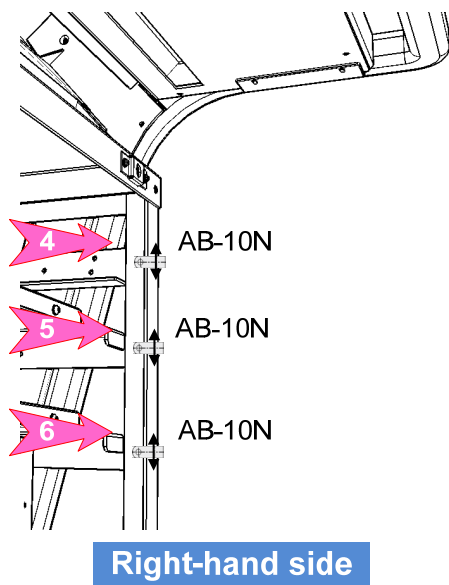W853：H-7ZCNA4160(included in CML-836-DC)

・Connect the W853 cable connector labeled "P51" to the J51 connector on the PSU.

・Connect the W853 cable connector labeled "P839" to the J839 connector on the RIF.

・Co-tighten the terminal labeled "FG" in the W853 cable and FG connection screw.

Wire the cable to pass through the nylon clip No.6.

Right-hand side

4 AB-10N

5 AB-10N

6 AB-10N

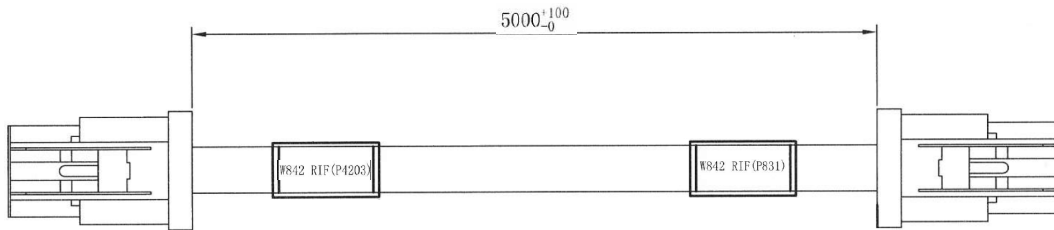FG Connection screw

3.5.2.2 **Connection for desktop type**

If the RIF is incorporated JB, connect the RIF and CCU. Either cable is arranged by the scanner unit.

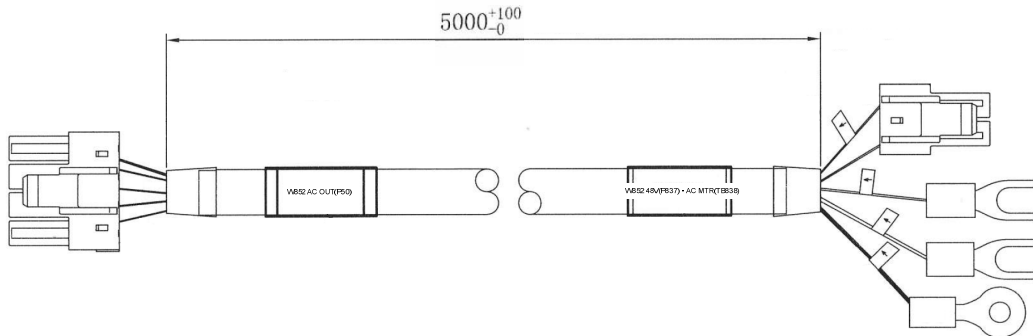・CML-836-ACF

・CML-836-DCF

●When CML-836-ACF has been arranged

W842：H-7ZCNA4165(included in CML-836-ACF)

Connect the J831 connector on the RIF to the J4203 on CCU by W842: H-7ZCNA4165.


W852：7ZCNA4159(included in CML-836-ACF)

・Connect the W852 cable connector labeled "P50" to the J50 connector on the PSU.

・Connect the cable labeled "P837" in the W852 cable to the J837 connector on the RIF.

・Connect the terminal labeled "U" in the W851 to the TB838 U terminal on the RIF.

・Connect the terminal labeled "V" in the W851 to the TB838 V terminal on the RIF.

・Co-tighten the terminal labeled "FG" in the W852 cable and FG connection screw (See. **3.5.2.1 Connection for standalone type**) on the RIF.

●When CML-836-DCF has been arranged

W842：H-7ZCNA4165(included in CML-836-DCF)

Connect the J831 connector on the RIF to the J4203 on CCU by W842: H-7ZCNA4165.
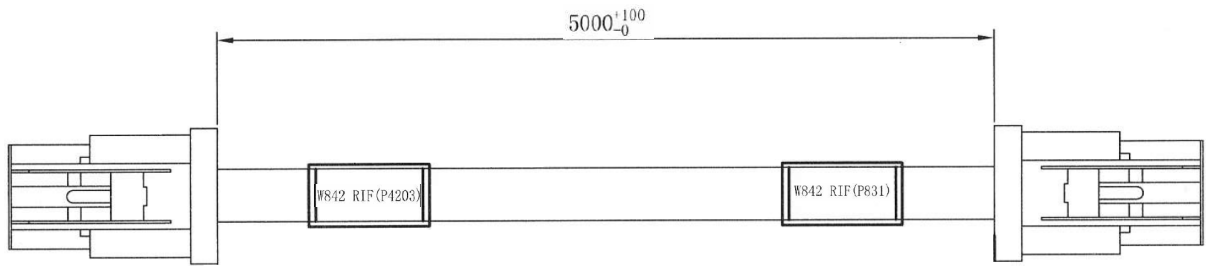
W854：H-7ZCNA4161(included in CML-836-DCF)

・Connect the W854 cable connector labeled "P51" to the J51 connector on the PSU.

・Connect the W854 cable connector labeled "P839" to the J839 connector on the RIF.

・Co-tighten the terminal labeled "FG" in the W854 cable and FG connection screw(See. **3.5.2.1 Connection for standalone type**).
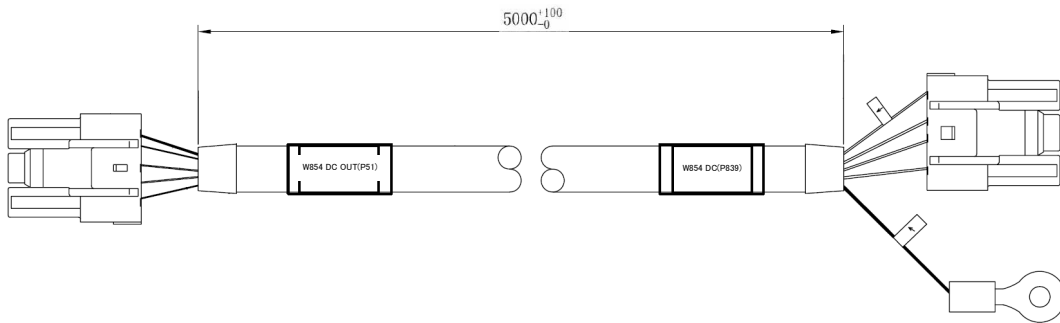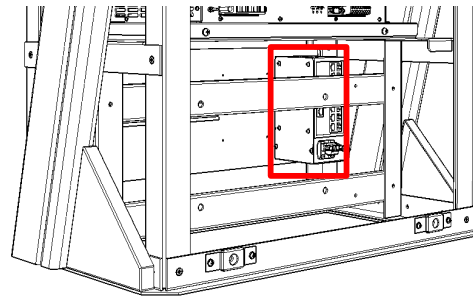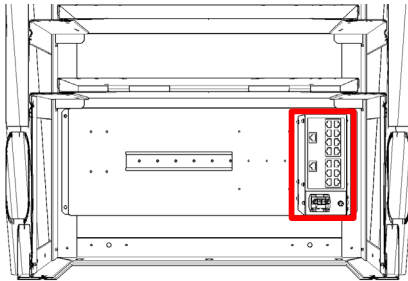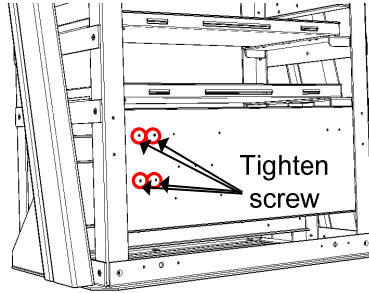
3.5.3 **Installation of Sensor LAN Unit**

If the NQA-2443 Sensor LAN Unit is arranged, install the rear panel of the frame.
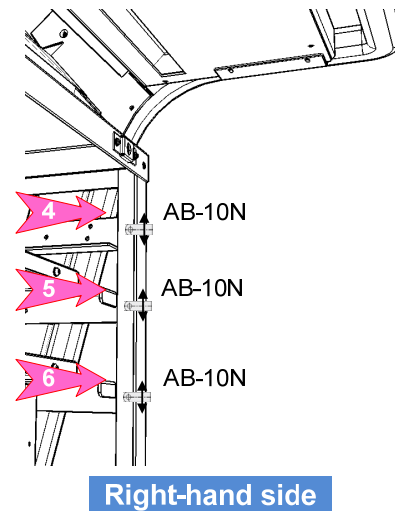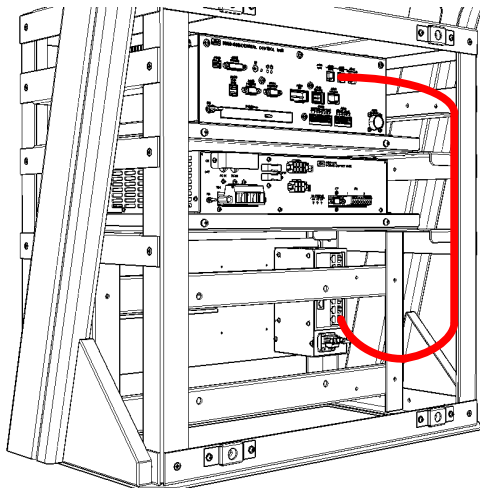
■In case of CWA-246(26inch monitor stand alone type)

1) Open the rear cover. And install the Sensor LAN Unit to the rear panel.
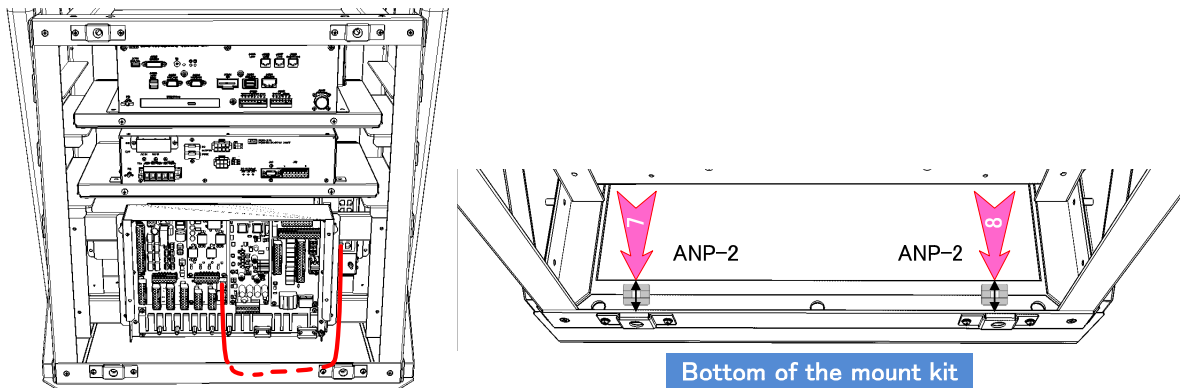
   Screw: M3x12(included in NQA-2443)

2) Connect the J4117 connector on the CCU and Port12 connector on the Sensor LAN Unit with W83: KB-STP-01LB(included in CML-901).

Wire the cable to pass through the nylon clip No.4, 5 and 6.

3) Connect the J8111 connector on the SLC and Port12 connector on the Sensor LAN Unit with W85: KB-STP01LB(CML-841).

Bottom of the mount kit

Wire the cable to pass through the cable tie base No.8.

Fasten the cable using the T50R cable tie to the cable tie base No.8.

⚠ Be careful so that the cables are not stretched.

   Fold in the cable length is left over.

⚠ WARNING

|	
❗	Before installing power cable, always make sure to turn off the circuit breaker of main power line. Otherwise, it may cause an electric shock or malfunction.

---

4) Refer to the **3.4.5 Installation of Relay Terminal (CQD-2312)**. And connect the 24VDC power supply cable.

■In case of CWA-245(19inch monitor stand alone type)

1) Open the rear cover. And screw the Sensor LAN Unit to the rear panel.

   Screw: M3x12(included in NQA-2443)
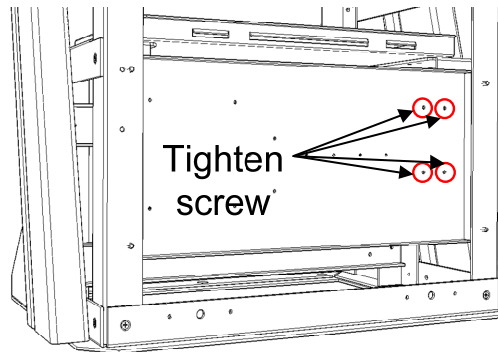
2) Attach the cable tie base to the 3 position shown in the figure below.
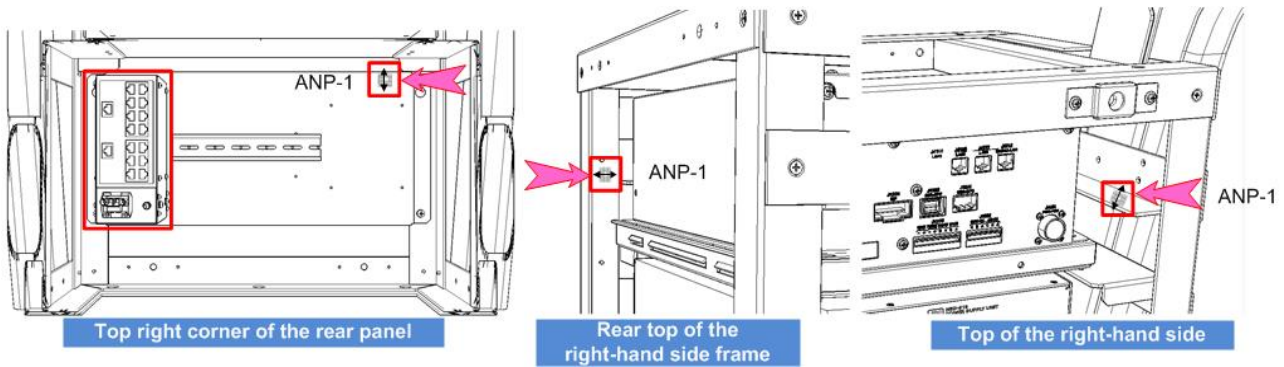
3) Connect the J4117 connector on the CCU and Port1 connector on the Sensor LAN Unit with W83: KB-STP-01LB(included in CML-901).
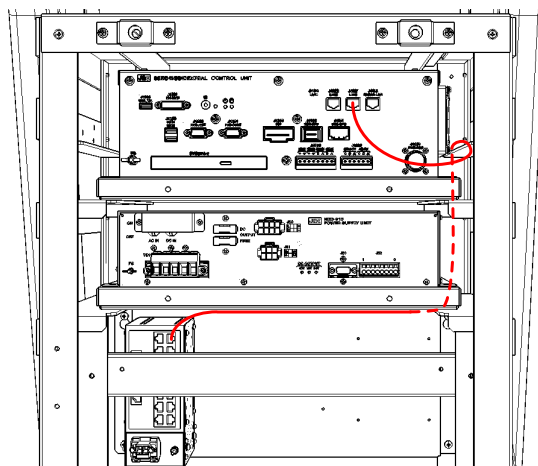
Wire the cable to pass through the 3 position shown in the figure above..

Fasten the cable using the T30R cable tie to the each cable tie base.

4) Connect the J8111 connector on the SLC and Port12 connector on the Sensor LAN Unit with W85: KB-STP01LB(CML-841).

Wire the cable to pass through the cable tie base No.8.

Fasten the cable using the T50R cable tie to the cable tie base No.8.

⚠ Be careful so that the cables are not stretched.

Fold in the cable length is left over.

⚠WARNING

❗	Before installing a power cable, always make sure to turn off the circuit breaker of main power line. Otherwise, it may cause an electric shock or malfunction.

---

5) Refer to the **3.4.5 Installation of Relay Terminal (CQD-2312)**. And connect the 24VDC power supply cable.

3.5.3.1 **Assembling an Ethernet Connector (RJ-45 Type)**
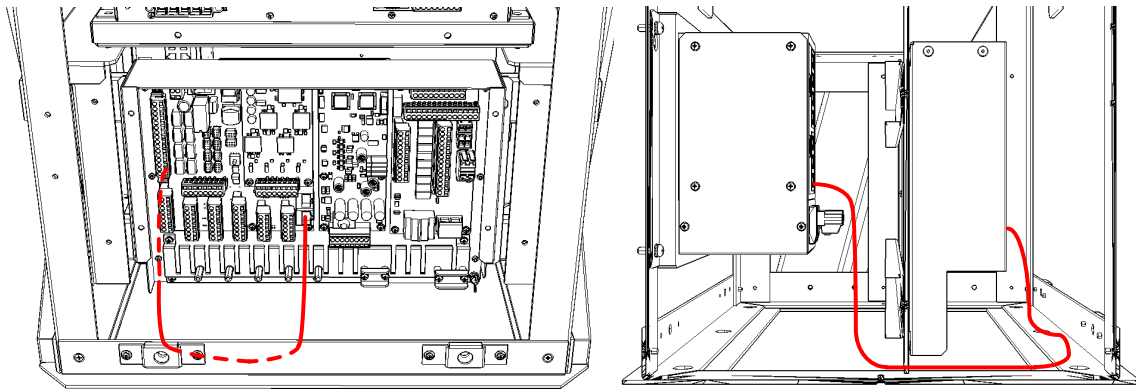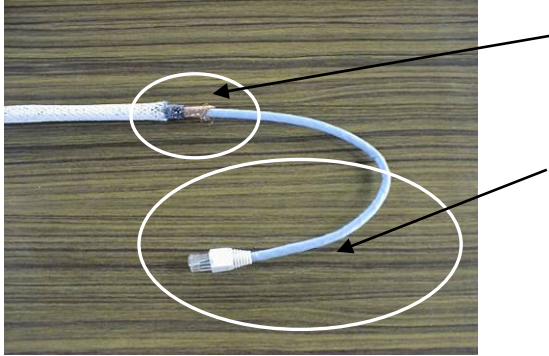
Assemble an Ethernet connector according to the following procedure.

●**Assemble Outside Sheath of an Ethernet cable**

Cut off outside sheath except for inner LAN Cable at the cable let-in hole.

Only shielding wire needs to leave length to a chassis.

●**How to Assemble an Ethernet Connector**

①	Let the Ethernet cable pass through the cable boot.
②	Measure the length of the cable sheath that is to be peeled. **NOTE**: The rough standard is the length of your thumb (about 5 to 6 cm).
③	Make a cut in the sheath by a wire stripper.

|	
④	Check by bending the cable that the foil inside is not damaged. If the foil inside is damaged, cut the cable there and go back to the procedure 2 again.
Failure example	**[Failure example]** The foil is torn and the core wires inside can be seen.
⑤	Cut the sheath by a cutter vertically from the cut line made by the stripper in the procedure 3. **NOTE**: Do not damage the foil inside.
⑥	Twist the cable to split off the sheath. Peel the sheath along the cut lines made by the stripper and the cutter.
⑦	Check that the foil is not damaged after the sheath is peeled. The foil is OK if it is not torn by the pull of the arrow direction shown in the left figure.

⑧ Fold back the foil and roll it up around the cable.
NOTE:
The blue surface of the foil must be touched to the sheath.

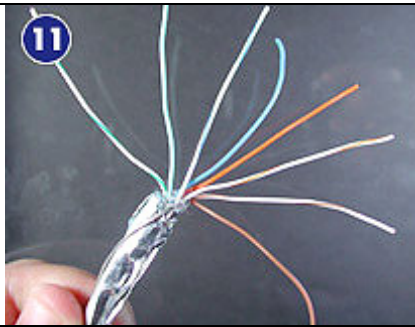⑨ As the same way, fold back the drain wire to attach to the sheath.
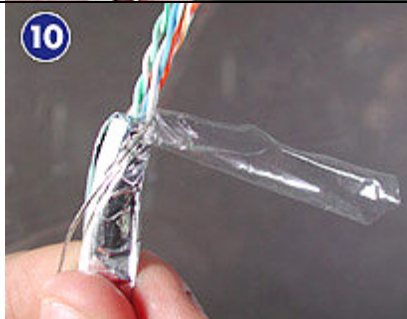
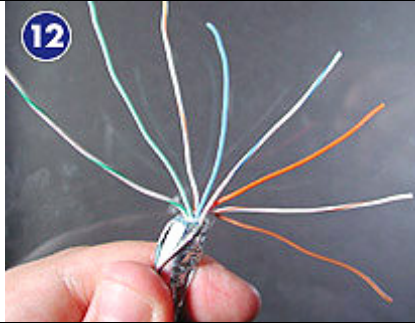⑩ Cut off the vinyl covering the core wires by scissors.
NOTE:
Cut the vinyl off at the bottom-most of the bare core wires for not blocking the connector to put in.
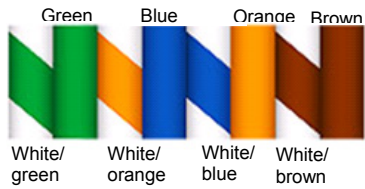
Untwist the core wires and straighten each wire.

After straightening, arrange the core wires so that the wires are aligned in the wiring order.
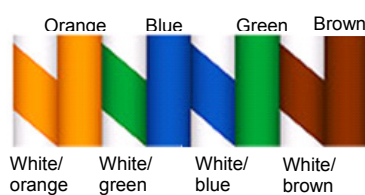**NOTE**:
Above picture shows the order of "Wiring A."

Wiring A

Green   Blue   Orange Brown

White/   White/   White/   White/
green   orange   blue   brown

A pin number is 1 to 8 in an order from the left.

1	2	3	4	5	6	7	8
W/G	G	W/O	Bl	W/Bl	O	W/Br	Br
Tx+	Tx-	Rx+			Rx-		

Wiring B

Orange   Blue   Green   Brown

White/   White/   White/   White/
orange   green   blue   brown
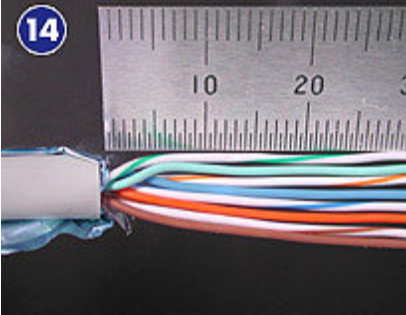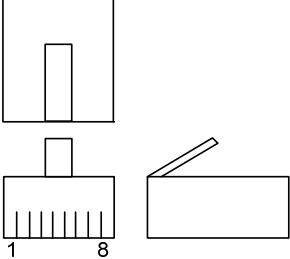
B pin number is 1 to 8 in an order from the left.

1	2	3	4	5	6	7	8
W/O	O	W/G	Bl	W/Bl	G	W/Br	Br
Tx+	Tx-	Rx+			Rx-		

W: White, G: Green, O: Orange, Bl: Blue, Br: Brown

Gather all the core wires with maintaining the order.

⑭	Cut off the core wires at about 16mm from the sheath. **Useful tip**: First, cut them 1 to 3 mm longer. Then, adjust by inserting the connector.
⑮	Insert the core wires into the STP connector. Check that the leading edges of the wires reach to the connector edge. **NOTE**: Also check that the foil and the drain wire are touched to the metal part inside the connector.
	A pin number is 1 to 8 in an order from the left.
⑯	Calk by a calking tool.

(17)	Cut off the unnecessary foil and drain wire by scissors.
(18)	Attach the cable boot. The cable assembling procedure is completed.

3.5.4　**Installation of UPS**

UPS consists of 4 units of the following.

(1)	(2)	(3)	(4)
ME-MAX-NEF/QUINT20	**QUINT-PS/ 1AC/24DC/20**	**QUINT-DC-UPS/24DC/20**	**QUINT-BAT/24DC/ 3.4AH**

⚠　The main purpose of this UPS is backup for the display unit. NKE-2254-6HS / NKE-2103-6 / NKE-2103-6HS Radar antennas can transmit by change the setting.(See 4.12 AC Power Failure)

But do not change the settings without instruction.

1) Wire the cable as shown in the figure below.

   Please wiring by cutting the cable of 4:QUINT-BAT/24DC/3.4AH. DC 24V output terminal connect to the CQD-2312 Relay terminal wiring by another cable. Refer to the **3.4.7 Wiring for Relay Terminal**.

   When desktop or flush mount type is arranged, there is no CQD-2312 Relay terminal. Connect to the terminal TB1 on the NBD-913 Power Supply Unit directly.
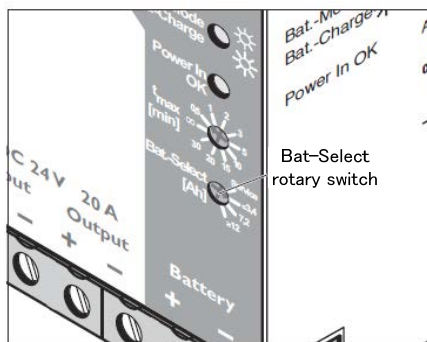
2) Install the battery fuse that came with the battery module.

⚠ Note when installing the fuse, because there is that small spark occurs.

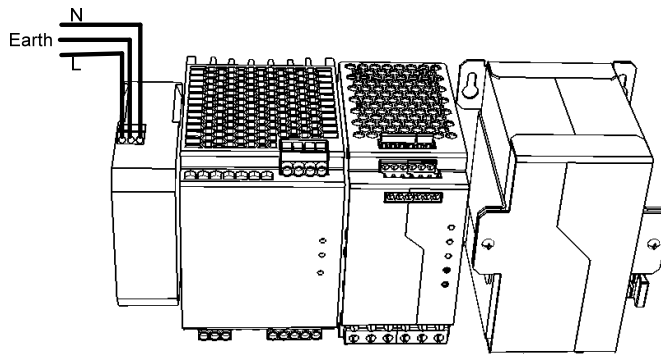3) Set the "Bat-Select" rotary switch on the 3:QUINT-DC-UPS/24DC/20 to 3.4.

⚠ **WARNING**

	Before installing a power cable, always make sure to turn off the circuit breaker of main power line. Otherwise, it may cause an electric shock or malfunction.

4) Connect the AC(100V-220V) power supply line to the reference to the figure below.

⚠ Make sure that the ground cable of the terminal block in the upper part of the input filter is connected with the ground of the ship.

While maintaining the OFF state of the circuit breaker for the power supply of the display unit, turn ON the circuit breaker of the main power line and check that the LEDs of the UPS controller turn ON/OFF as follows.

| LED	Color	ON/OFF Status
Alarm	Red	OFF
Bat.-Mode	Yellow	Flashing or
Bat.-Charge		OFF
Power In OK	Green	ON

The installation of UPS ends above. Refer to the next page if you want to install the UPS to the inside of the display unit.

■In case of the install to the inside of the Display Unit

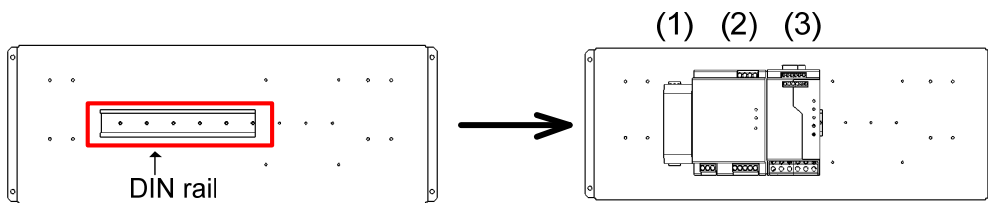1) Remove the 4 screws.　And remove the frame for installing the JB.
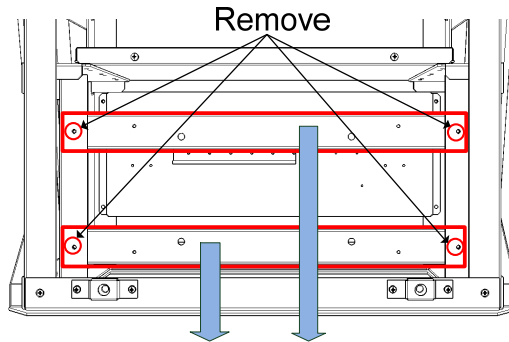
Remove
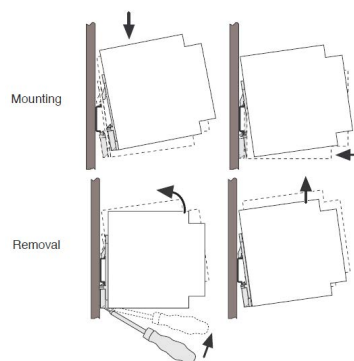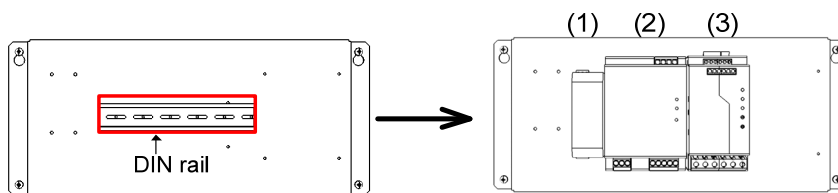
2) Remove the 4 screws on the rear panel.

Remove
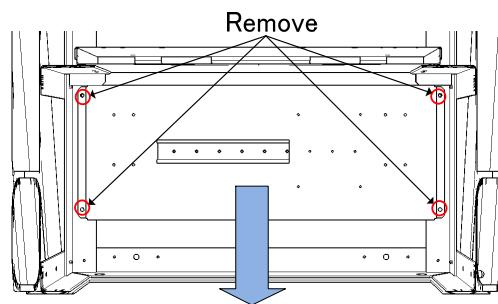
3) Install the UPS units(1), (2), (3) to the DIN rail on the rear panel.

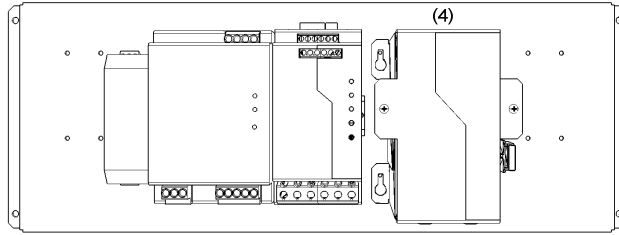●In case of 26inch Display Unit Mount Kit(CWA-246)

(1)　(2)　(3)

DIN rail

●In case of 19inch Display Unit Mount Kit(CWA-245)
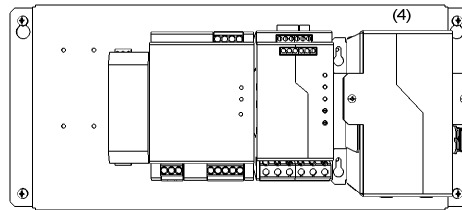
(1)　　(2)　　　(3)

DIN rail

Mounting

Removal

3-91

4) Install the UPS battery to the rear panel.

●In case of 26inch Display Unit Mount Kit(CWA-246)

●In case of 19 inch Display Unit Mount Kit(CWA-245)

5) Wire the cable as shown in the figure below.

Please wiring by cutting the cable of 4:QUINT-BAT/24DC/3.4AH. And then remove the AC input connector on the 1.ME-MAX-NEF/QUINT20 for wiring. DC 24V output terminal connect to the CQD-2312 Relay terminal wiring by another cable. Refer to the **3.4.7 Wiring for Relay Terminal**.

Then, remove the AC input terminal on 1.ME-MAX-NEF/QUINT20 for power supply wiring.
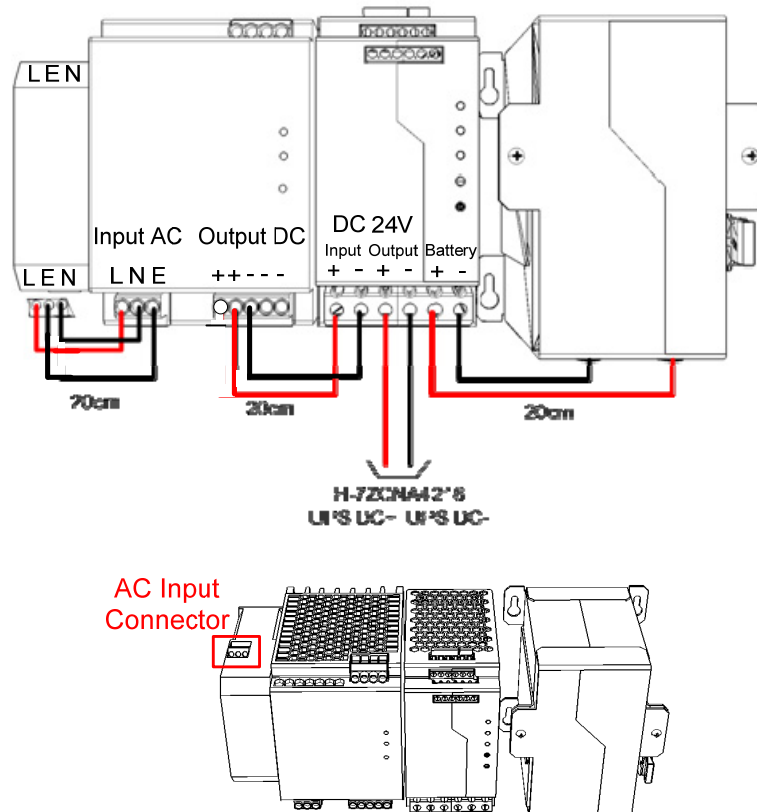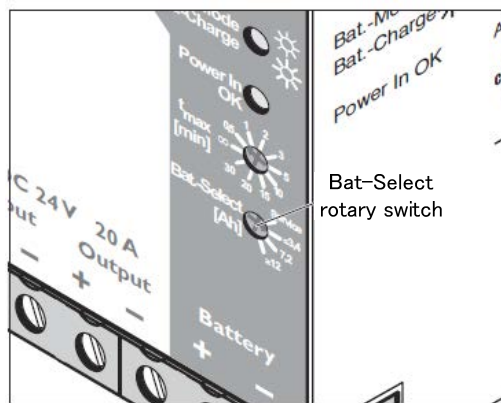
6) Install the battery fuse that came with the battery module.

⚠ Note when installing the fuse, because there is that small spark occurs.

To CQD-2312
Relay Terminal

7) Set the "Bat-Select" rotary switch on the 3:QUINT-DC-UPS/24DC/20 to "3.4".
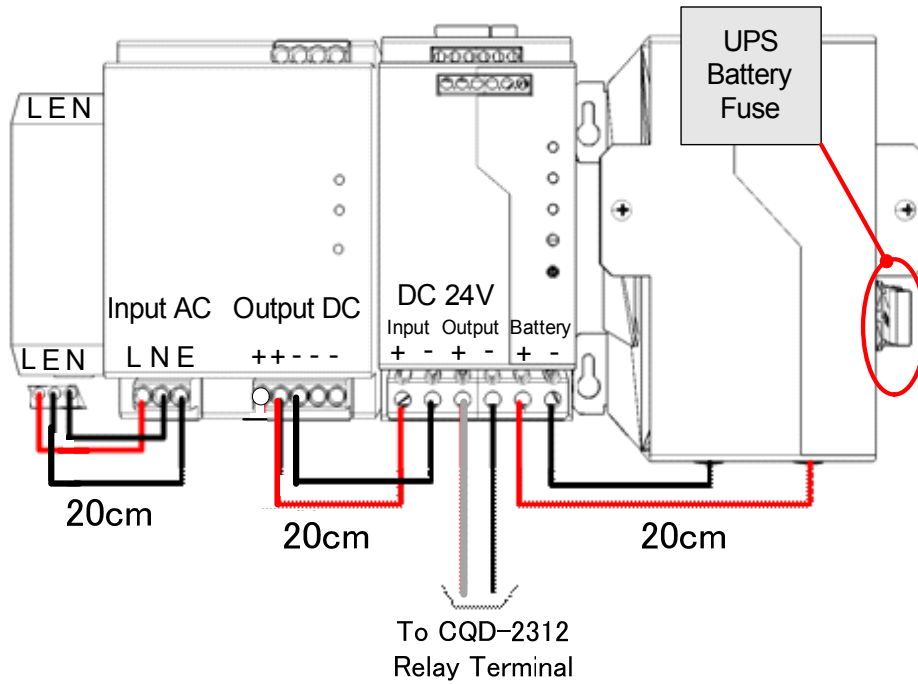
Bat-Select
rotary switch

8) Refer to the **3.4.7 Wiring for Relay Terminal**. And wire the cable for AC input and DC output.


⚠WARNING

Before installing a power cable, always make sure to turn off the circuit breaker of main power line.   Otherwise, it may cause an electric shock or malfunction.
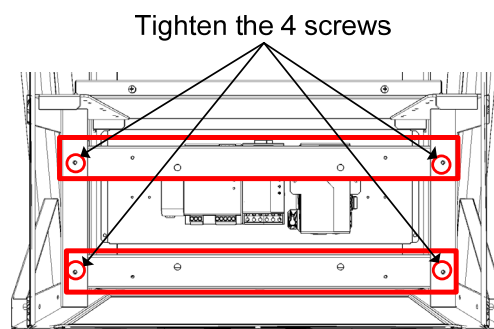
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9) While maintaining the OFF state of the circuit breaker for the power supply of the display unit, turn ON the circuit breaker of the main power line and check that the LEDs of the UPS controller turn ON/OFF as follows.

LED	Color	ON/OFF Status
Alarm	Red	OFF
Bat.-Mode Bat.-Charge	Yellow	Flashing or OFF
Power In OK	Green	ON

10) Install the rear panel installed UPS to the frame. And wire the cable to pass through the cable tie base No.16.

Tighten the 4 screws
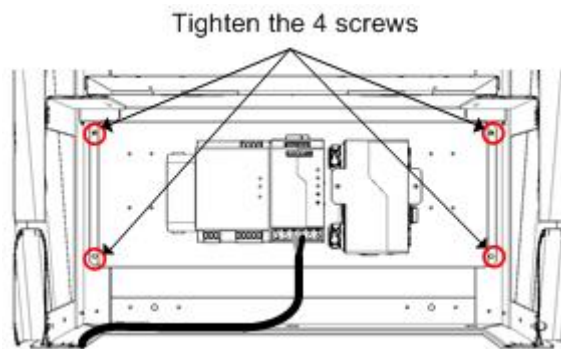
11) Install the 2 frames for installing the JB.

Tighten the 4 screws

The installation of UPS ends above.