

4.3.10.2 Replacing the UPS AC-DC Converter: QUINT-PS/1AC/24DC/20

WARNING



An AC power supply has been fed to UPS. Before replacement work, be sure to turn OFF the circuit breaker of the main power line. Not following this instruction will cause electric shock and/or malfunction.








Before starting UPS replacement work, be sure to remove the fuse of the UPS battery. Not following this instruction will cause electric shock and/or malfunction.

[Required Tools]

The tools shown in the following table are required for replacement work.

Table Required Tools

No.	Name	Size	Appearance
1	Flat head screwdriver	2 mm, 4 mm, 6 mm	
2	Phillips screwdriver	Size #2	
3	Phillips stubby screwdriver	Size #2	
4	Diagonal pliers	—	
5	Cable-tie *1	—	

*1 A number of cable-ties may be required.



Before conducting replacement work, turn OFF the circuit breaker for the power supply of the display unit.



Do not lose the screws as they will be needed again.



To prevent damage to the Unit during the replacement work, cut off cable-ties that fasten the cable of the unit beforehand.

Step 1 Remove the JB from the display unit mount kit.

Remove the JB from the display unit mount kit. For more information about the JB removal procedure, refer to "4.3.9.1 Replacing the Sensor LAN Switch Unit: NQA-2443."

Step 2 Set "Bat-Select" of the UPS controller QUINT-DC-UPS/24DC/20 at "Service."

Set the "Bat-Select" rotary switch of the UPS controller at "Service." For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."

Step 3 Remove the blade fuse of the UPS battery QUINT-BAT/24DC/3.4AH.

Remove the fuse of the UPS battery. After removing the fuse, leave it for at least 5 min until the electricity charged in the internal capacitor is discharged. For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."

Step 4 Remove the Relay terminal block: CQD-2312

Disconnect all cables / wires from Relay terminal block by using a 3 mm width flat head screwdriver. Then, dismount the Relay terminal block from the DIN rail. For the details of dismounting, refer to the " Replacing the Relay Terminal Block: CQD-2312".



AC and DC power supplies have been connected to the Relay terminal block. Before replacement work, be sure to turn OFF the applicable power circuit breaker. Not following this instruction will cause electric shock and/or malfunction.

Step 5 Remove the two metal planks.

Remove the screws (M5: total of 4 locations) that fasten the two top and bottom metal planks and take out both of them. For more information, refer to "4.3.9.1 Replacing the Sensor LAN Switch Unit: NQA-2443."

Step 6 Remove the power wiring of the UPS.

Disconnect the power connector of the UPS. The power connector of the UPS can be removed using the principle of leverage, by inserting a 2 mm width flat head screwdriver into the groove at the root of the terminal block in the upper part of the input filter ME-NAX-NEF/QUINT20. For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."



An AC power supply has been connected to the UPS. Before starting replacement work, turn OFF the circuit breaker of the AC power supply.

If a sensor LAN switch unit is installed, disconnect the wiring of the sensor LAN switch unit. For more information, refer to "4.3.9.1 Replacing the Sensor LAN Switch Unit: NQA-2443."

Step 7 Remove the UPS output cables.

Using a 4 mm width flat head screwdriver, disconnect the output cables at the bottom of the UPS controller. The output cables are fastened using an European-style terminal block. For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."

Step 8 Remove the rear panel.

Remove the screws (M5: 4 locations) that fasten the rear panel and take out the rear panel together with the UPS. For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."



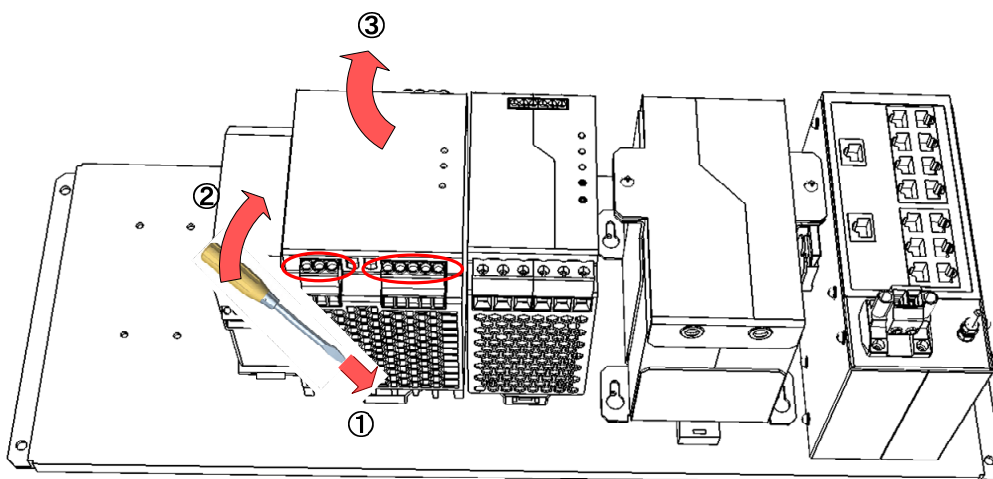
If a UPS has been installed, the weight of the rear panel increases to 10 kg or more.

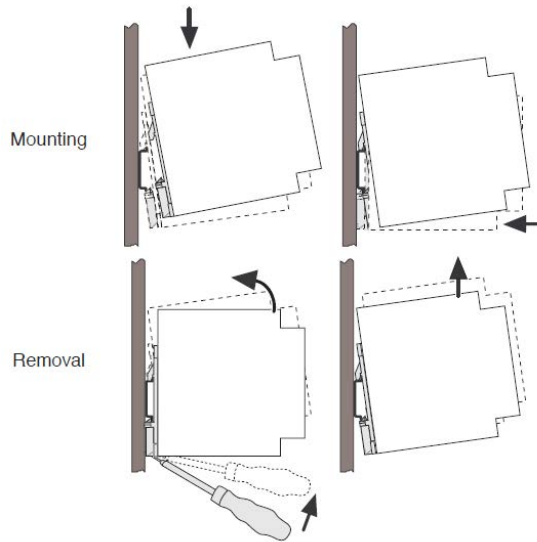
Be careful not to catch your hands while removing the rear panel.

Step 9 Change the UPS AC-DC converter: QUINT-PS/1AC/24DC/20.

Loosen the European-style terminal blocks in the lower part of the UPS AC-DC converter QUINT-PS/1AC/24DC/20 and disconnect the cables.

After disconnecting the cables, remove the UPS AC-DC converter. The UPS AC-DC converter is fastened to the DIN rail. The UPS AC-DC converter can be removed from the DIN rail using the principle of leverage, by inserting a 6 mm width flat head screwdriver into the groove of the metal fixture in the lower part of the UPS AC-DC converter.





Step 10 Put back the rear panel and check for LED lighting.

After replacing the UPS input filter, assemble to the original condition by repeating the same procedure in the reverse order. Put back the wiring and perform setting in the following sequence.

- (i) UPS output cable
- (ii) Ups power cable
- (iii) UPS battery blade fuse
- (iv) Set the "Bat-Select" rotary switch of the UPS controller at "3.4."

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. For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."

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



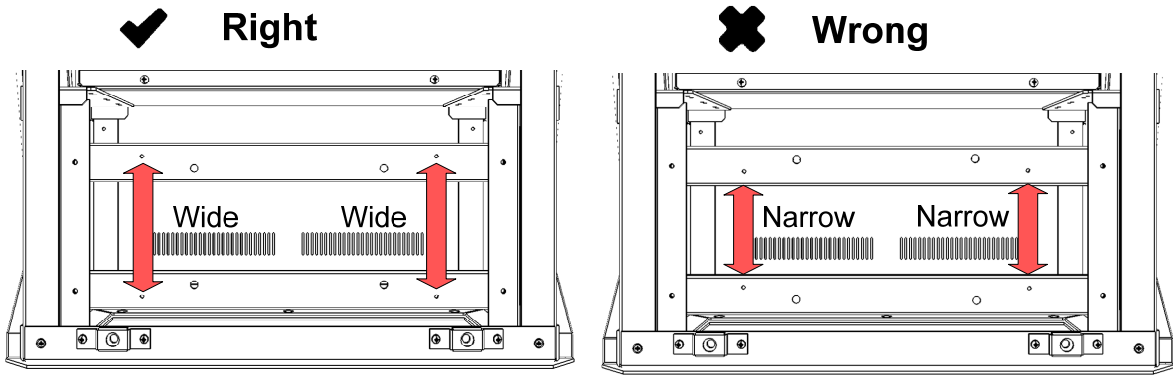
Make sure that the ground cable of the European-style terminal block in the upper part of the input filter is connected with the ground of the ship.

Step 11 Put back all other cables and covers.

Turn OFF the circuit breaker of the main power line again. Put all the remaining cables and covers back in place by repeating the same procedure in the reverse order. Please make sure to tighten all the screws and connect all the cables back in place.



When reinstalling the two metal planks, be careful with vertical direction.



To reconnect the cables and the two-piece terminal blocks, connect them to the same locations as before removing them.

This completes the replacement of the UPS AC-DC converter.

4.3.10.3 Replacing the UPS Controller: QUINT-DC-UPS/24DC/20

WARNING



An AC power supply has fed to the UPS. Before replacement work, be sure to turn OFF the circuit breaker of the main power line. Not following this instruction will cause electric shock and/or malfunction.



Before starting UPS replacement work, be sure to remove the fuse of the UPS battery. Not following this instruction will cause electric shock and/or malfunction.






Before replacing the UPS controller, be sure to set the "Bat-Select" rotary switch of the UPS controller at "Service." Not following this instruction will cause electric shock and/or malfunction.

[Required Tools]

The tools shown in the following table are required for replacement work.

Table Required Tools

No.	Name	Size	Appearance
1	Flat head screwdriver	2 mm, 4 mm, 6 mm	
2	Phillips screwdriver	Size #2	
3	Phillips stubby screwdriver	Size #2	



Before conducting replacement work, turn OFF the circuit breaker for the power supply of the display unit.



Do not lose the screws as they will be needed again.



An AC power supply has been connected to the UPS. Before starting replacement work, turn OFF the circuit breaker of the main power supply.

Step 1 Remove the JB from the display unit mount kit.

Remove the JB from the display unit mount kit. For more information about the JB removal procedure, refer to "4.3.9.1 Replacing the Sensor LAN Switch Unit: NQA-2443."

Step 2 Set "Bat-Select" of the UPS controller QUINT-DC-UPS/24DC/20 at "Service."

Set the "Bat-Select" rotary switch of the UPS controller at "Service." For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."

Step 3 Remove the blade fuse of the UPS battery QUINT-BAT/24DC/3.4AH.

Remove the fuse of the UPS battery. After removing the fuse, leave it for at least 5 min until the electricity charged in the internal capacitor is discharged. For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."

Step 4 Remove the Relay terminal block: CQD-2312

Disconnect all cables / wires from Relay terminal block by using a 3 mm width flat head screwdriver. Then, dismount the Relay terminal block from the DIN rail. For the details of dismounting, refer to the " Replacing the Relay Terminal Block: CQD-2312".



AC and DC power supplies have been connected to the Relay terminal block. Before replacement work, be sure to turn OFF the applicable power circuit breaker. Not following this instruction will cause electric shock and/or malfunction.

Step 5 Remove the two metal planks.

Remove the screws (M5: total of 4 locations) that fasten the two top and bottom metal planks and take out both of them. For more information, refer to "4.3.9.1 Replacing the Sensor LAN Switch Unit: NQA-2443."

Step 6 Remove the power wiring of the UPS.

Disconnect the power connector of the UPS. The power connector of the UPS can be removed using the principle of leverage, by inserting a 2 mm width flat head screwdriver into the groove at the root of the terminal block in the upper part of the input filter ME-NAX-NEF/QUINT20. For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."



An AC power supply has been connected to the UPS. Before starting replacement work, turn OFF the circuit breaker of the main power supply.

If a sensor LAN switch unit is installed, disconnect the wiring of the sensor LAN switch unit. For more information, refer to "4.3.9.1 Replacing the Sensor LAN Switch Unit: NQA-2443."

Step 7 Remove the UPS output cables.

Using a 4 mm width flat head screwdriver, disconnect the output cables at the bottom of the UPS controller. The output cables are fastened using a European-style terminal block. For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."

Step 8 Remove the rear panel.

Remove the screws (M5: 4 locations) that fasten the rear panel and take out the rear panel together with the UPS. For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."



If a UPS has been installed, the weight of the rear panel increases to 10 kg or more.

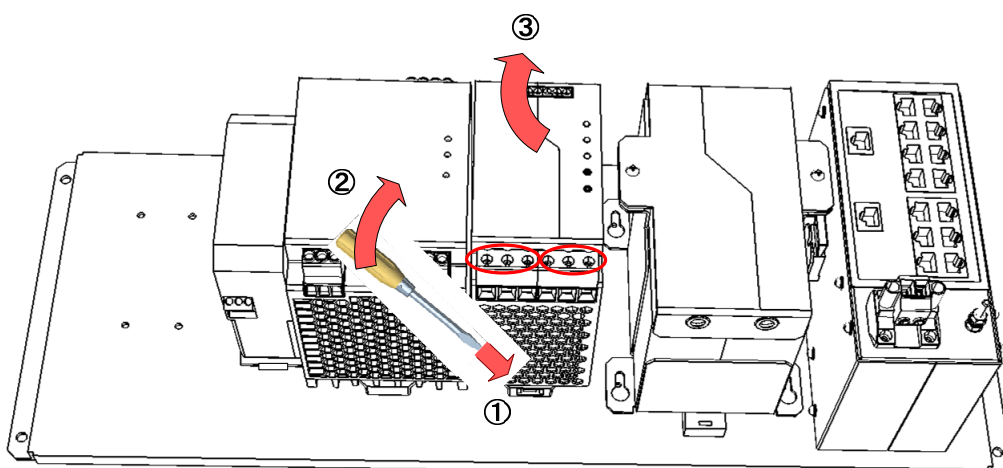
Be careful not to catch your hands while removing the rear panel.

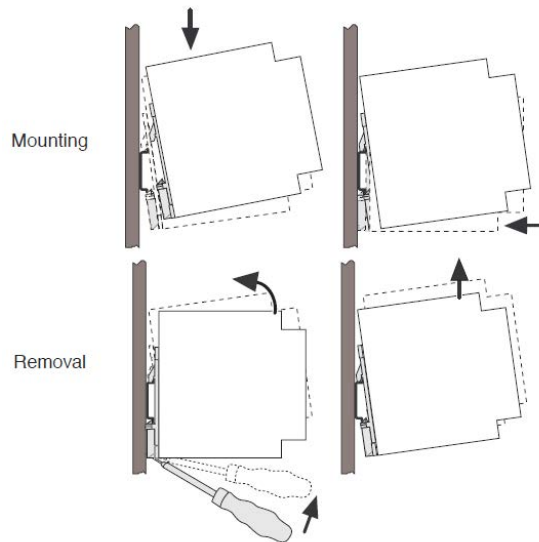
Step 9 Change the UPS controller: QUINT-DC-UPS/24DC/20.

Loosen the European-style terminal blocks in the lower part of the UPS controller QUINT-DC-UPS/24DC/20 and disconnect the cables.

After disconnecting the cables, change the UPS controller. The UPS controller is fastened to the DIN rail. The UPS controller can be removed from the DIN rail using the principle of leverage, by inserting a 6mm width flat head screwdriver into the groove of the metal fixture in the lower part of the UPS controller.

When installing a new UPS controller, be sure to set the "Bat-Select" rotary switch of the UPS controller at "Service."

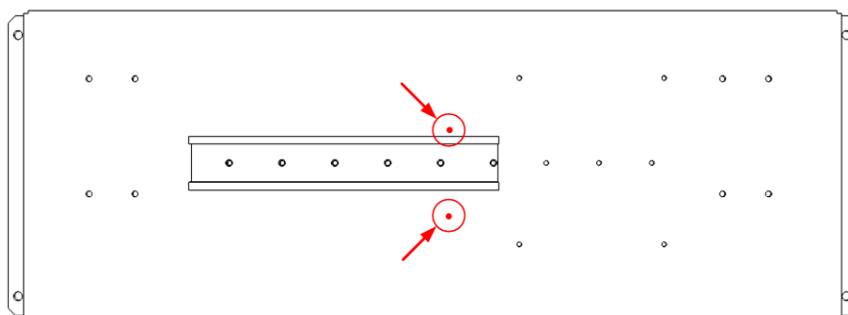




When removing the cables of the UPS battery, be sure to leave the battery for at least 5 min after removing the fuse. Not doing so may cause electric shock.



Remove two screws shown in figure below if they interfere with attachment of the UPS controller.



Step 10 Put back the rear panel and check for LED lighting.

After replacing the UPS input filter, assemble to the original condition by repeating the same procedure in the reverse order. Put back the wiring and perform setting in the following sequence.

- (i) UPS output cable
- (ii) UPS power cable
- (iii) UPS battery blade fuse
- (iv) Set the "Bat-Select" rotary switch of the new UPS controller at "3.4."

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. For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."

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



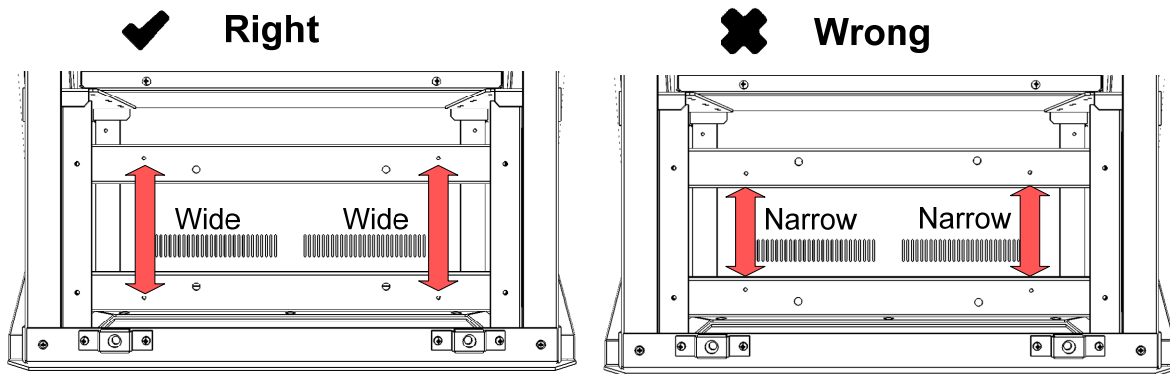
Make sure that the ground cable of the European-style terminal block in the upper part of the input filter is connected with the ground of the ship.

Step 11 Put back all other cables and covers.

Turn OFF the circuit breaker of the main power line again. Put all the remaining cables and covers back in place by repeating the same procedure in the reverse order. Please make sure to tighten all the screws and connect all the cables back in place.



When reinstalling the two metal planks, be careful with vertical direction.



To reconnect the cables and the two-piece terminal blocks, connect them to the same locations as before removing them.

This completes the replacement of the UPS controller.

4.3.10.4 Replacing the UPS Battery: QUINT-BAT/24DC/3.4AH

DANGER



Never handle the battery as stated below. Not following this instruction will cause liquid leak, heat generation, fire, explosion, damage, burn or other damage or injury.

- Short circuit between the positive and negative terminals
- Use other than designated
- Disassembly, modification and disposal
- Use beyond the expiration date

WARNING



An AC power supply has fed to UPS. Before replacement work, be sure to turn OFF the circuit breaker of the main power line. Not following this instruction will cause electric shock and/or malfunction.



Before starting UPS replacement work, be sure to remove the fuse of the UPS battery. Not following this instruction will cause electric shock and/or malfunction.



Before replacing the UPS battery, be sure to set the "Bat-Select" rotary switch of the UPS controller at "Service." Not following this instruction will cause electric shock and/or malfunction.

CAUTION






When disposing of used batteries, follow the regulations and/or rules of the local regulatory authority which has control over the location of disposal.

[Required Tools]

The tools shown in the following table are required for replacement work.

Table Required Tools

No.	Name	Size	Appearance
1	Flat head screwdriver	2 mm, 4 mm, 6 mm	
2	Phillips screwdriver	Size #2	
3	Phillips stubby screwdriver	Size #2	



Before conducting replacement work, turn OFF the circuit breaker for the power supply of the display unit.



Do not lose the screws as they will be needed again.

Step 1 Remove the JB from the display unit mount kit.

Remove the JB from the display unit mount kit. For more information about the JB removal procedure, refer to "4.3.9.1 Replacing the Sensor LAN Switch Unit: NQA-2443."

Step 2 Set "Bat-Select" of the UPS controller QUINT-DC-UPS/24DC/20 at "Service."

Set the "Bat-Select" rotary switch of the UPS controller at "Service." For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."

Step 3 Remove the blade fuse of the UPS battery QUINT-BAT/24DC/3.4AH.

Remove the fuse of the UPS battery. After removing the fuse, leave it for at least 5 min until the electricity charged in the internal capacitor is discharged. For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."

Step 4 Remove the Relay terminal block: CQD-2312

Disconnect all cables / wires from Relay terminal block by using a 3 mm width flat head screwdriver. Then, dismount the Relay terminal block from the DIN rail. For the details of dismounting, refer to the " Replacing the Relay Terminal Block: CQD-2312".



AC and DC power supplies have been connected to the Relay terminal block. Before replacement work, be sure to turn OFF the applicable power circuit breaker. Not following this instruction will cause electric shock and/or malfunction.

Step 5 Remove the two metal planks.

Remove the screws (M5: total of 4 locations) that fasten the two top and bottom metal planks and take out both of them. For more information, refer to "4.3.9.1 Replacing the Sensor LAN Switch Unit: NQA-2443."

Step 6 Remove the power wiring of the UPS.

Disconnect the power connector of the UPS. The power connector of the UPS can be removed using the principle of leverage, by inserting a 2 mm width flat head screwdriver into the groove at the root of the terminal block in the upper part of the input filter ME-NAX-NEF/QUINT20. For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."



An AC power supply has been fed to the UPS. Before starting replacement work, turn OFF the circuit breaker of the main power supply.

If a sensor LAN switch unit has been installed, disconnect the wiring of the sensor LAN switch unit. For more information, refer to "4.3.9.1 Replacing the Sensor LAN Switch Unit: NQA-2443."

Step 7 Remove the UPS output cables.

Using a 4 mm width flat head screwdriver, disconnect the output cables at the bottom of the UPS controller. The output cables are fastened using an European-style terminal block. For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."

Step 8 Remove the rear panel.

Remove the screws (M5: 4 locations) that fasten the rear panel and take out the rear panel together with the UPS. For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."



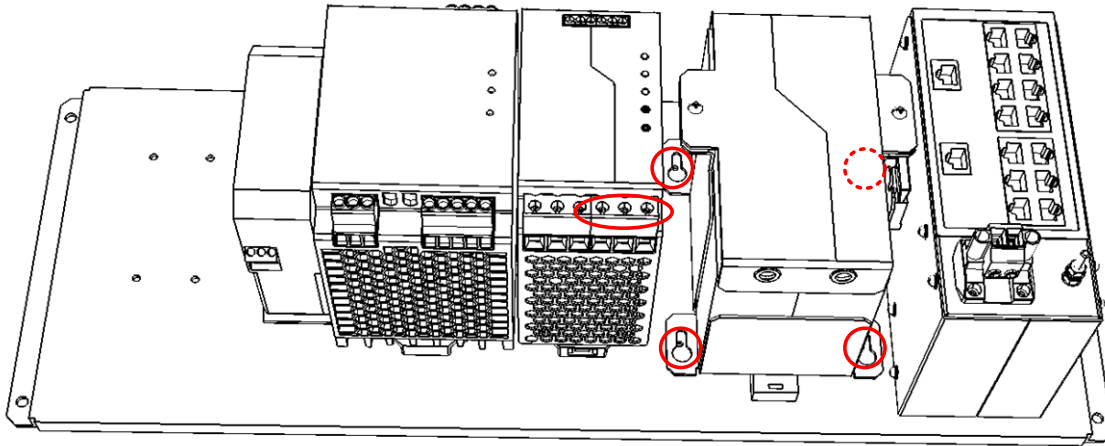
If a UPS has been installed, the weight of the rear panel increases to 10kg or more. Be careful not to catch your hands while removing the rear panel.

Step 9 Change the UPS Battery: QUINT-BAT/24DC/3.4AH.

The UPS battery QUINT-BAT/24DC/3.4AH is connected with the UPS controller QUIT-DC-UPS/24DC/20. Loosen the European-style terminal block in the lower part of the UPS controller and disconnect the cables.

After removing the cables, remove the screws (M4: 4 locations) that fasten the UPS battery QUINT-DC-UPS/24DC/20.

Before installing a new UPS battery, be sure to remove the fuse of the UPS battery.



Before removing the cables of the UPS battery, leave it for at least 5 min after removing its fuse.

Not doing so may cause electric shock.



Be sure to remove the fuse of a new UPS battery before installing it.

Not doing so may cause electric shock.

Step 10 Put back the rear panel and check for LED lighting.

After replacing the UPS input filter, assemble to the original condition by repeating the same procedure in the reverse order. Put back the wiring and perform setting in the following sequence.

- (i) UPS output cable
- (ii) UPS power cable
- (iii) UPS battery blade fuse
- (iv) Set the "Bat-Select" rotary switch of the UPS controller at "3.4."

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. For more information, refer to "4.3.10.1 Replacing the UPS Input Filter: ME-NAX-NEF/QUINT20."

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



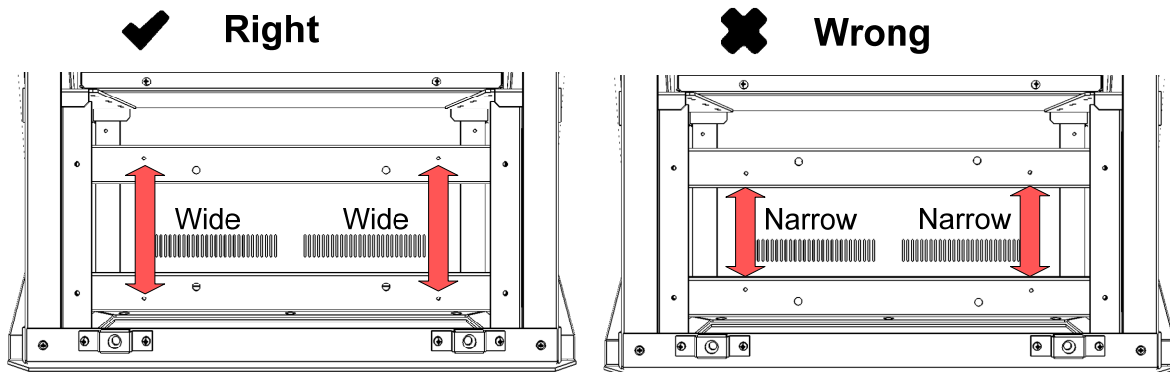
Make sure that the ground cable of the European-style terminal block in the upper part of the input filter is connected with the ground of the ship.

Step 11 Put back all other cables and covers.

Turn OFF the circuit breaker of the main power line again. Put all the remaining cables and covers back in place by repeating the same procedure in the reverse order. Please make sure to tighten all the screws and connect all the cables back in place.



When reinstalling the two metal planks, be careful with vertical direction.



To reconnect the cables and the two-piece terminal blocks, connect them to the same locations as before removing them.

Step 12 Reset the usage time.

- (1) Reset the usage time of the UPS. For the reset method, please refer to " " in the Instruction Manual.

Step 13 Dispose of the used UPS battery.

When disposing of used batteries, follow the regulations and/or rules of the local regulatory authority which has control over the location of disposal.

This completes the replacement of the UPS battery.

4.3.11 Detaching the front frame of the Display unit mount kit.

4.3.11.1 Precaution

WARNING



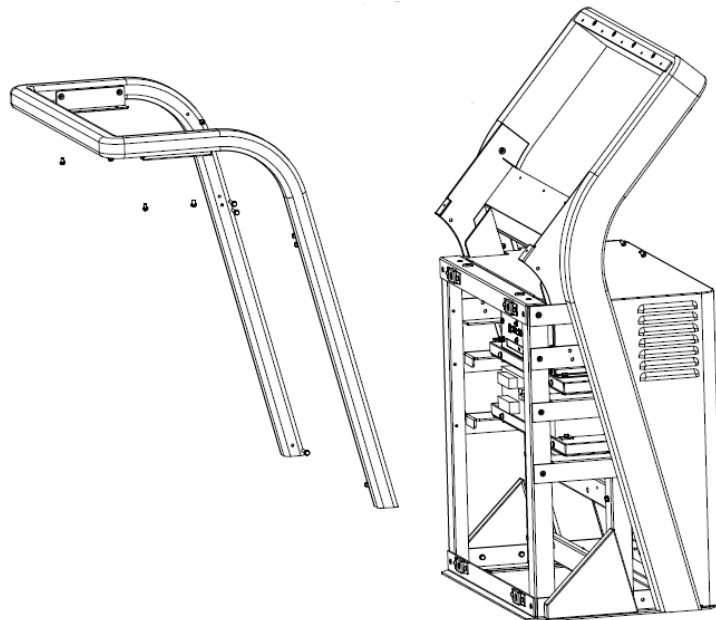
Do not disassemble the front frame except under unavoidable circumstances for the sake of the ship's structure. It may lead to unexpected accidents.



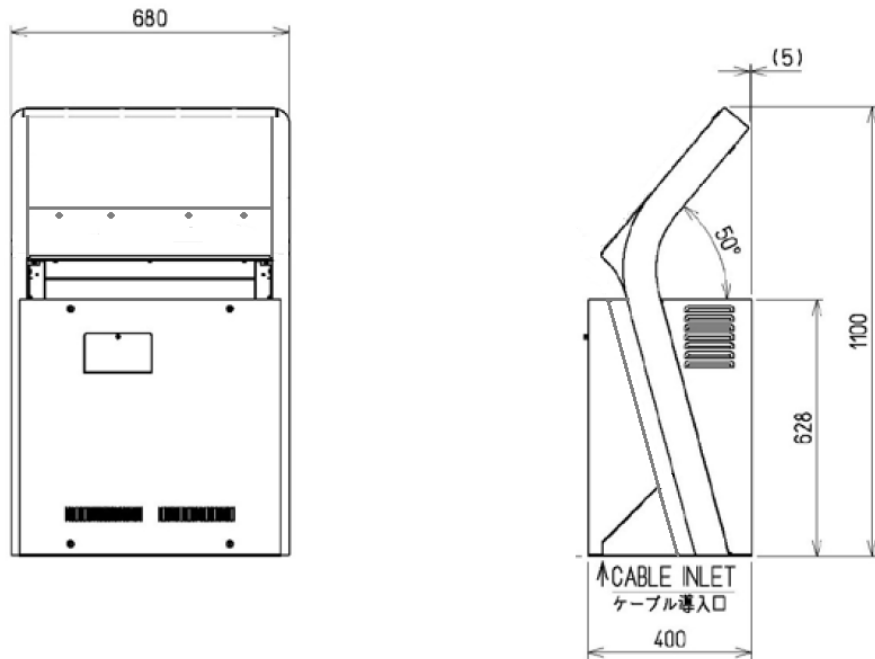
Be sure to do it with at least two persons.

If only one person does this work, he/she may lead to unexpected accidents.

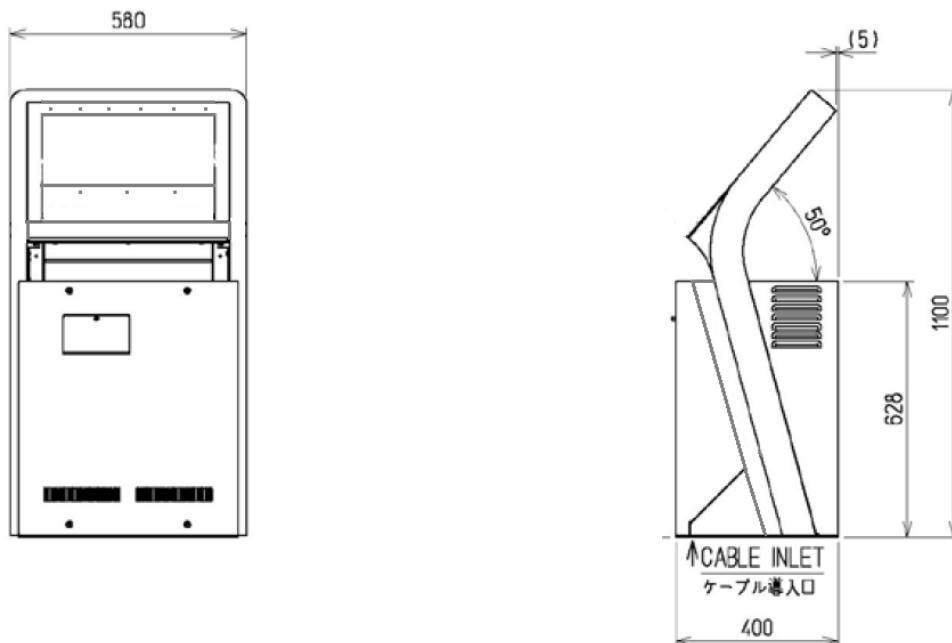
You can pull out the front frame of the Display Unit mount kit if the door of the bridge is too narrow for the stand alone Display Unit.



4.3.11.2 Dimension diagrams of the Display Unit mount kit without a front frame



Dimension diagrams of CWA-246: 26" Display Unit mount kit without a front frame







Dimension diagrams of CWA-245: 19" Display Unit mount kit without a front frame

4.3.11.3 Detaching the front frame of the Display Unit mount kit

【 Required Tools 】

The tools shown in the following table are required for this work

Table Required Tools

No	Name	Size	Appearance
1	Phillips screwdriver	Size #2	
2	Phillips stubby screwdriver	Size #2	
3	Diagonal pliers	—	
4	Cable-tie *1	—	

*1 A number of cable-ties may be required.



Do not lose the screws as they will be needed again



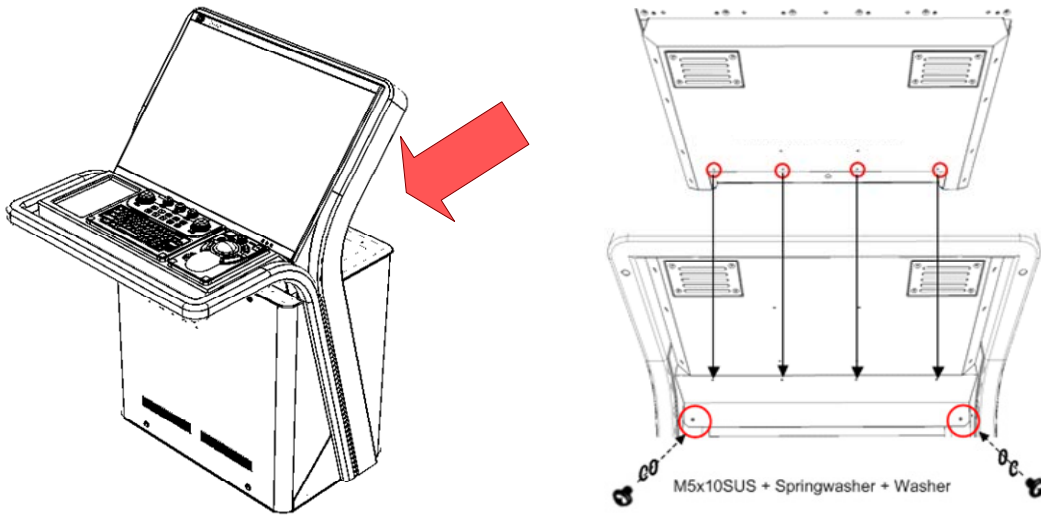
Do not detach the front frame except under unavoidable circumstances for the sake of the ship's structure. It may lead to unexpected accidents.



To prevent damage to the Unit during the replacement work, cut off cable-ties that fasten the cable of the unit beforehand.

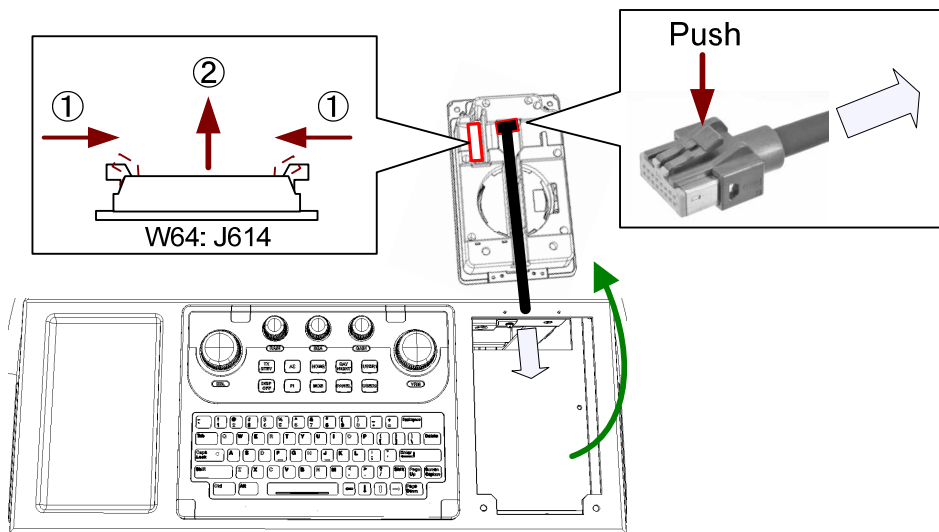
Step 1 Remove the monitor

Remove the monitor from the Display Unit mount kit by referring Chapter 4.



Step 2 Remove the Trackball Operation Unit

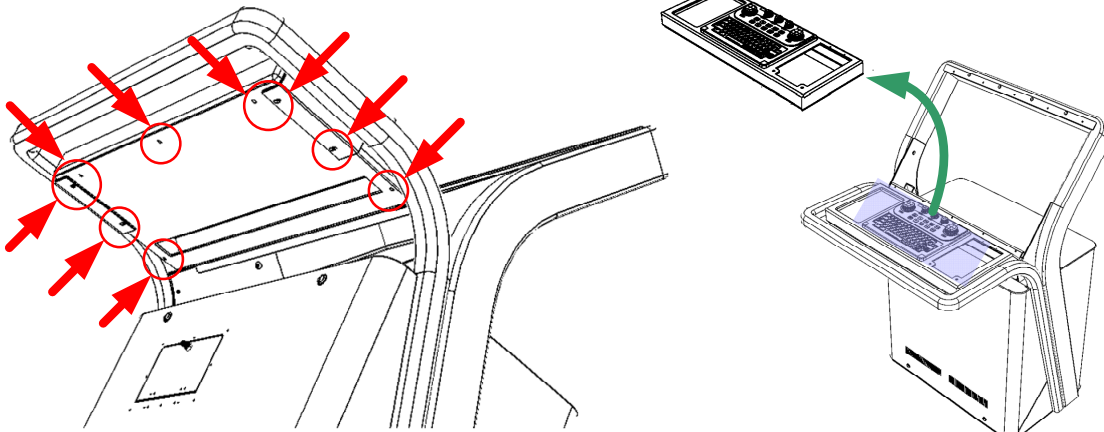
Remove the Trackball Operation Unit from the Display Unit mount kit by referring Chapter 4.



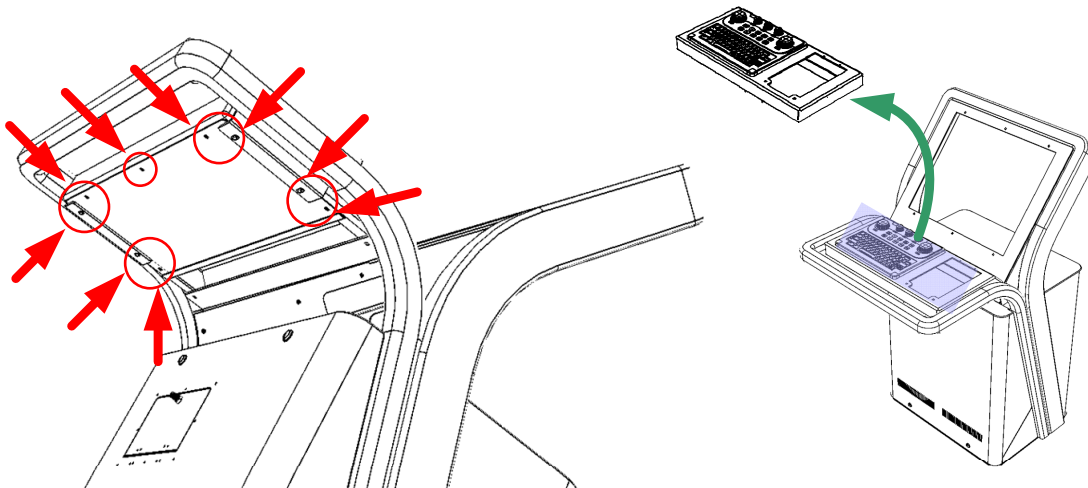
It is not necessary to remove Keyboard OPU. (If it has been installed.)

Step 3 Remove Operation Unit frame

Remove the screws (M4: 9 locations) that fasten the Operation Unit frame and then take out it.



Taking out the OPU frame from 26" Display Unit mount kit

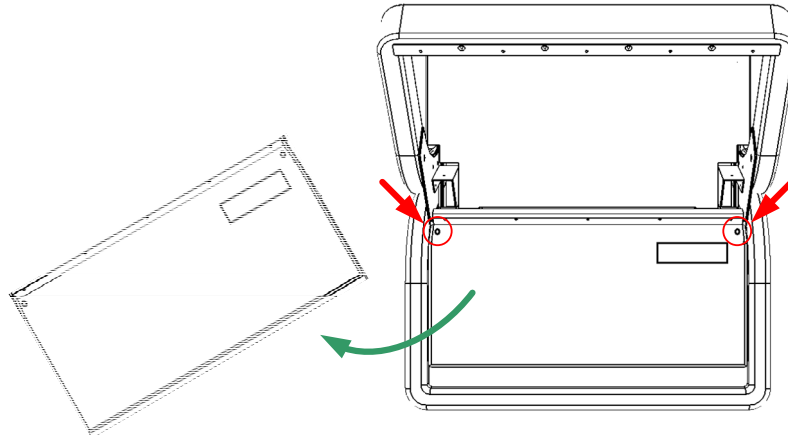


Taking out the OPU frame from 19" Display Unit mount kit

Step 4 Remove the bottom sheet metal

Remove the bottom sheet metal of OPU frame.

In the 26" Display Unit mount kit, Remove the screws (M3: 2 locations) that fasten the sheet metal and then take out it.

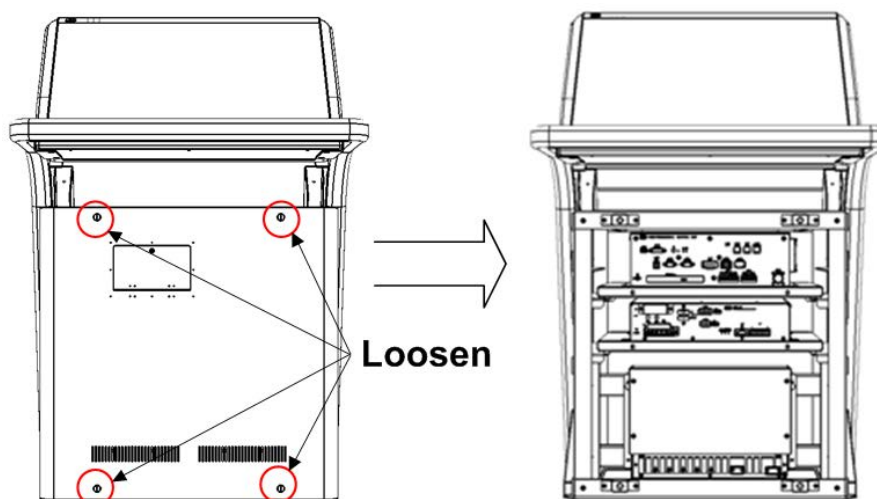


Taking out the OPU sheet metal from 26" Display Unit mount kit

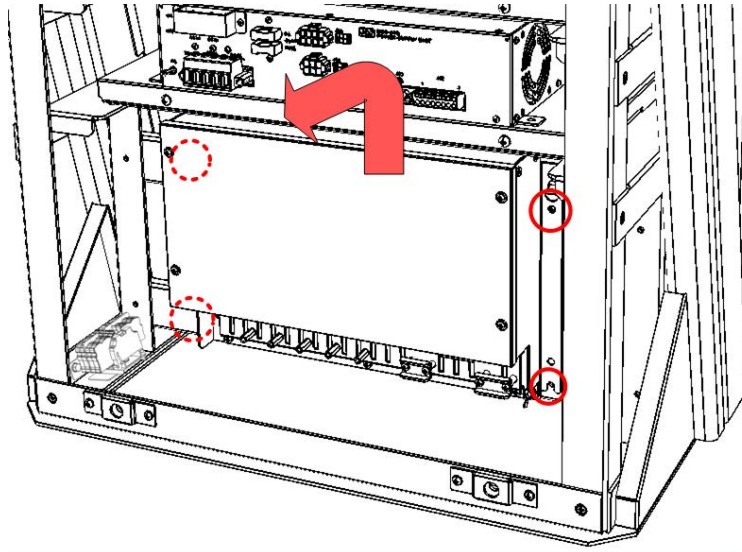
In the 19" Display Unit mount kit, you can remove the sheet metal and OPU frame together.

Step 5 Remove the front cover and the Junction Box

Remove the front cover from the Display Unit mount kit by referring Chapter 4.

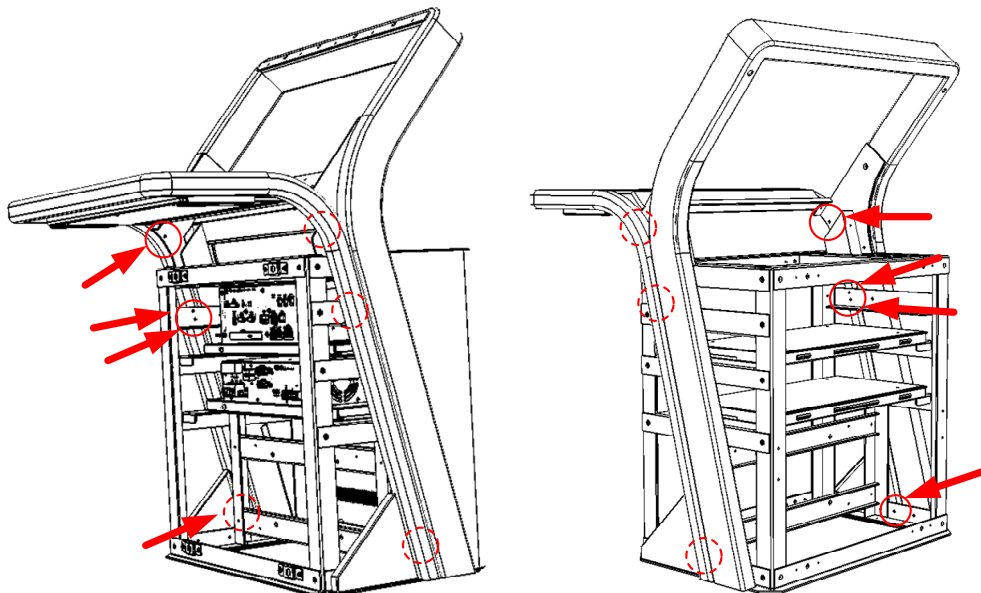


If the Junction box has been installed, remove it as well.

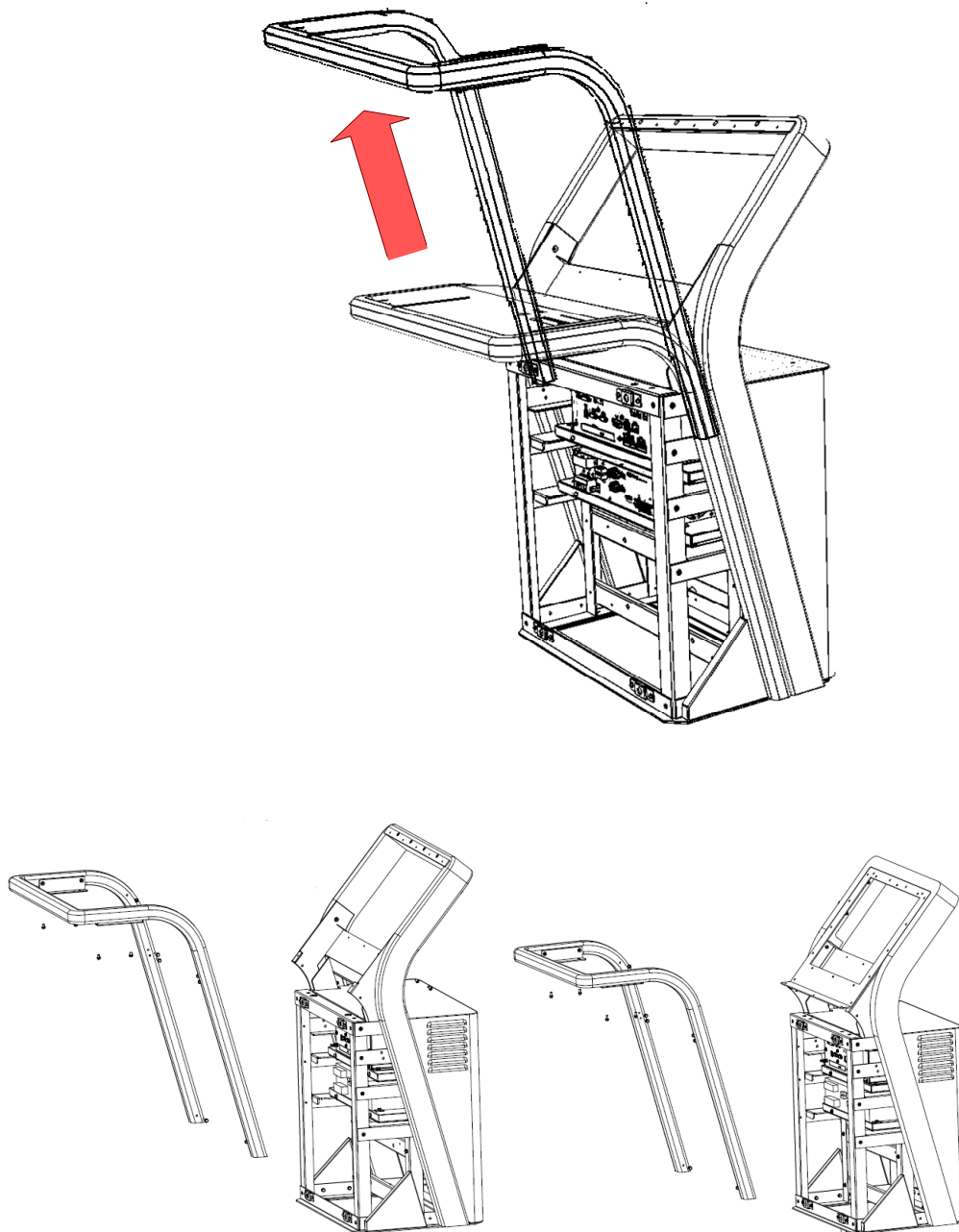


Step 6 Remove the front frame

Using a Phillips stubby screwdriver, remove the M4 screws that fasten the front frame. They are 4 locations in one side, 8 locations in total.



Pull up the front frame slowly in the obliquely upward direction along its line and take away.



After carrying in the stand alone Display Unit is completed, assemble to the original condition by repeating the same procedure in the reverse order. Please make sure to tighten all the screws and connect all the cables back in place.

This completes carrying in the stand alone Display Unit into the bridge that has a narrow door by detaching its front frame.

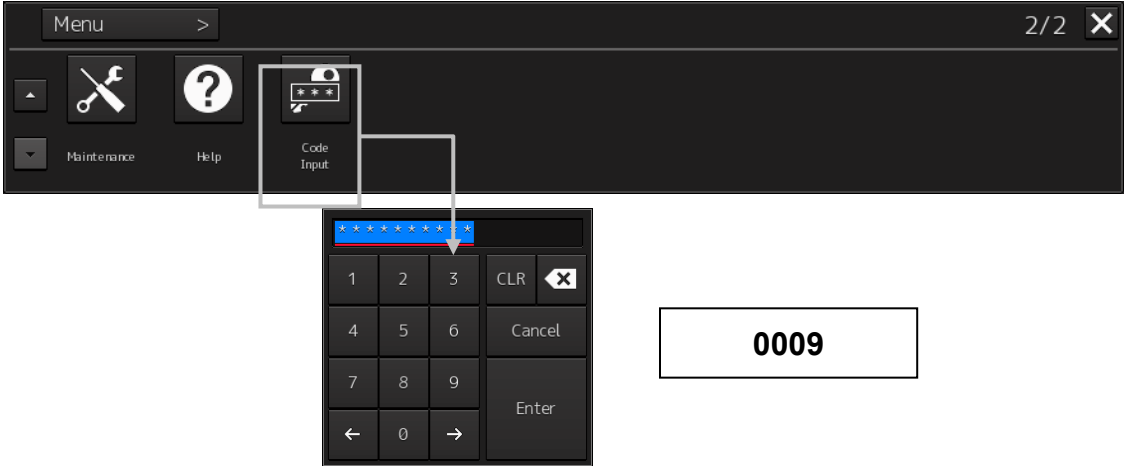
4.4 Setting up after replacements

Whenever you have done the replacement of the components in Scanner Unit or in Display Unit, set up the system as follows.

4.4.1. To display the Service menu for Engineers:

Service menu for Engineers appears when you enter the password 0009 on Code Input dialog. For further information, see “Chapter 7 Troubleshooting”.

Enter 0009 in Password.



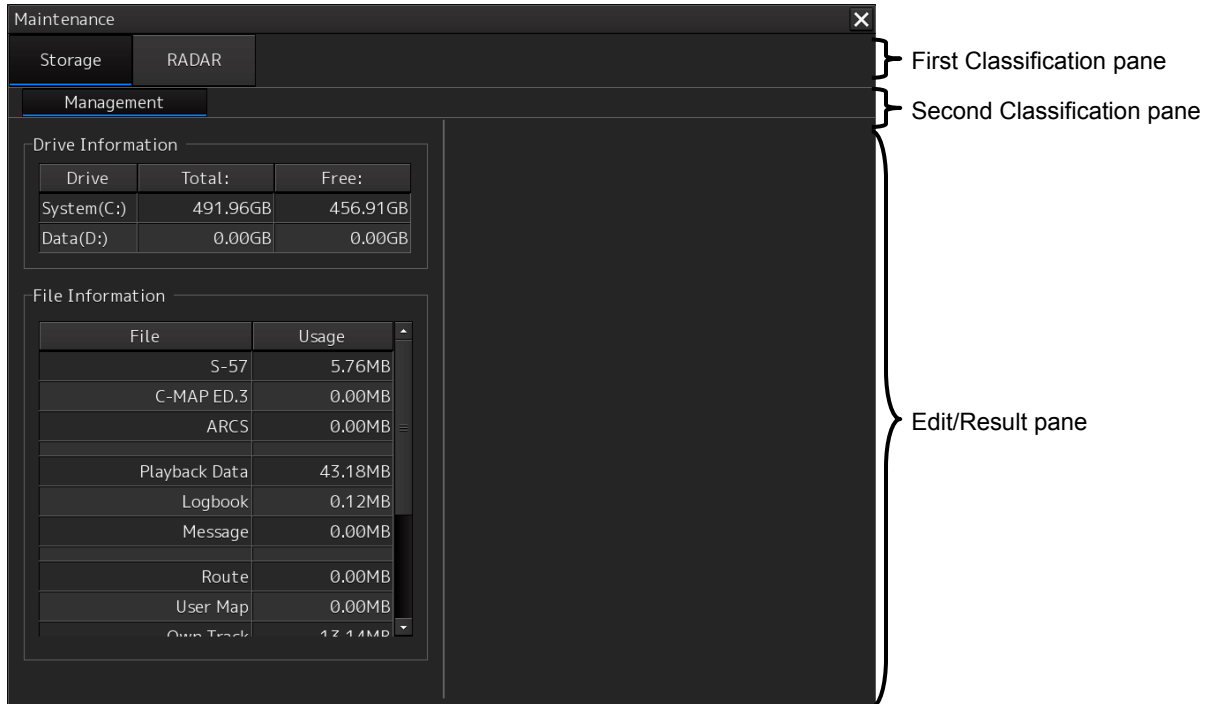
The [Service] button is added to the menu.



4.4.2. Displaying the "Maintenance" dialog box

Clicking the [Maintenance] button in the submenu displays the "Maintenance" dialog box.

The "Maintenance" dialog box in the submenu consists of the Classification pane and the Edit/Result pane. The Classification pane consists of two-level layers of the First Classification pane and the Second Classification pane.



Note

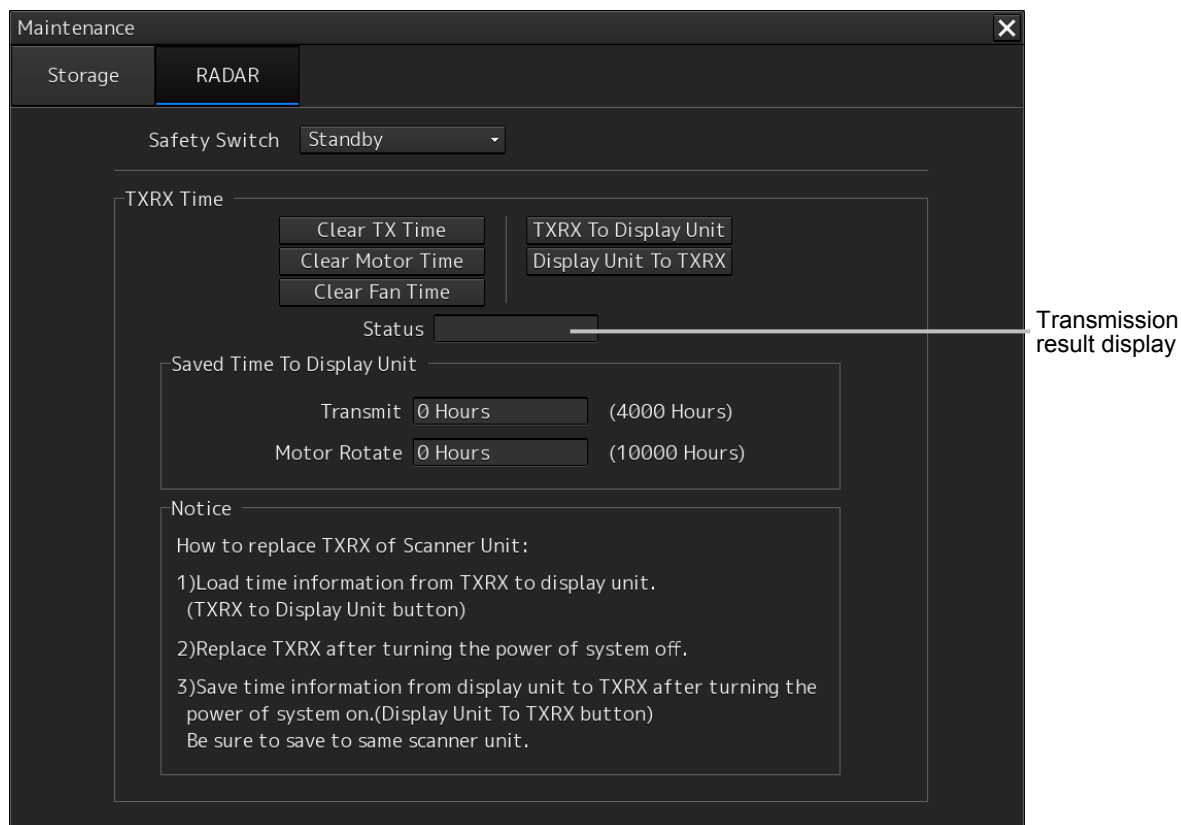
In the ECDIS screen, [RADAR] function does not work.

4.4.3. Setting up anfter replacing Scanner Units

Use the "RADAR" dialog to maintain the radar.

4.4.3.1 Displaying the "RADAR" dialog

When you select [RADAR] in the Classification pane, the RADAR dialog is displayed in the Edit/Result pane.



4.4.3.2 Changing the operation mode of the safety switch

Open the list of the [Safety Switch] box and select the operation to be performed when the safety switch of the antenna is set to OFF.

Setting	Operation
TX-Off	<ul style="list-style-type: none"> No radiant section's rotation and transmission PPI screen in the transmitting state Maintains the transmitting state without generating BP or BZ alarm
Standby	<ul style="list-style-type: none"> No radiant section's rotation and transmission PPI screen standby
TX-On	<ul style="list-style-type: none"> No radiant section's rotation, with transmission PPI screen in the transmitting state Maintains the transmitting state without generating BP or BZ alarm

4.4.3.3 Clearing a radar antenna operation time

The total transmission time and the total motor rotation time of a radar antenna can be cleared.

Clearing the total transmission time of a radar antenna

1. Click on the [Clear TX Time] (resetting transmission time) button.

Clearing the total motor rotation time of a radar antenna

1. Click on the [Clear Motor Time] (resetting the motor rotation time) button.

4.4.3.4 Replacing a TXRX circuit of a radar antenna

Verify the total transmission time and the total motor rotation time of the radar antenna and use the information as the guideline for replacement.

Acquiring the data of the total transmission time and the total motor rotation time from a radar antenna

Click on the [TXRX To Display Unit] (transmitting from an antenna to a display unit) button.

The data of the total transmission time and the total motor rotation time is acquired from the antenna and is stored in a display unit. The time that is acquired is displayed on the [Saved Time To Display Unit] display section.

Transmit: Total time acquired from the radar antenna

Motor Rotate: Total motor rotation time acquired from the radar antenna

Storing data of the total transmission time and the total motor rotation time in the radar antenna

Click the [Display Unit To TXRX] button (transmission from the display to the radar antenna).

The total transmission time and total motor rotation time saved in the display unit are saved to the radar antenna.

If data is saved normally, the data saved in the display unit will be deleted.

When a command is sent from the display unit to the radar antenna, the transmission result is displayed as follows.

Result waiting state: "Sending..." is displayed blinking at intervals of 1 sec.

When the result is success: "Completed" is displayed.

When the result is failure: "Not Completed" is displayed.

Replacing a TXRX circuit

The operation procedure and notes are displayed on the Notice display.

1. By clicking on the [TXRX To Display Unit] button, load the data of the total transmission time and the total motor rotation time from the radar antenna to the display unit.
2. Turn off the power of the system and replace the TXRX circuit.
3. Turn on the power of the system and write the data of the total transmission time and the total motor rotation time in the transceiver unit of the radar antenna by clicking on the [Display Unit To TXRX].

Note

Make sure that data is written to the transceiver unit of the same radar antenna when the data is loaded.

4.4.3.5 To set up or adjust radar antennas

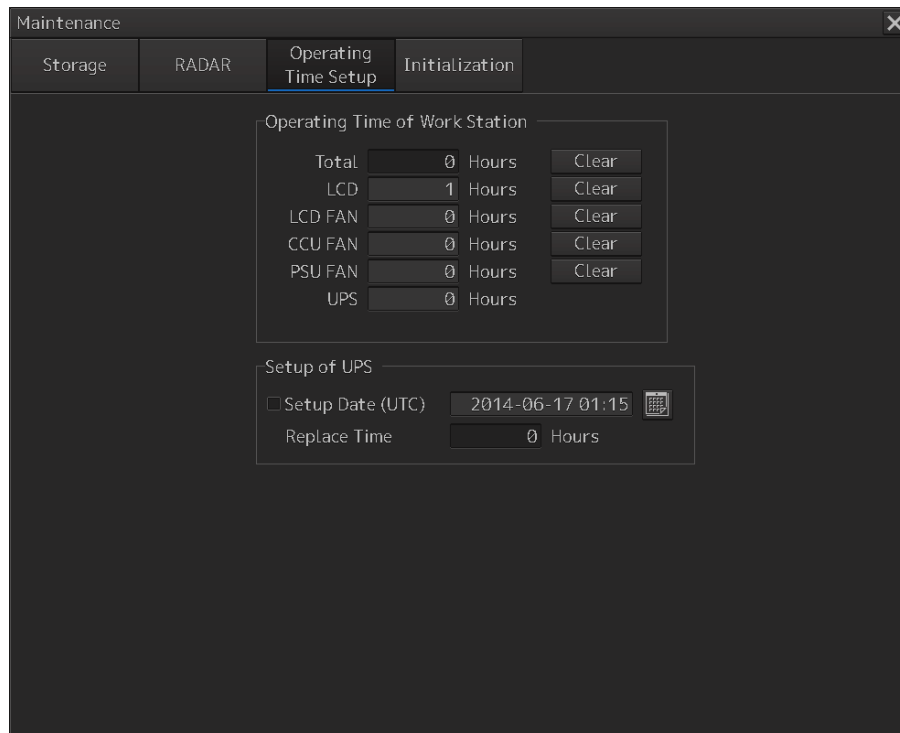
To set up or adjust following items, please refer “JMR-920xx/72xx, JAN-920x/720x Instruction manual chapter 4”.

- Tune adjustment
- Bearing adjustment
- Distance adjustment
- Radar antenna height adjustment
- Tuning bar peak value adjustment
- Performance monitor
- Sector blank
- TT function
- MBS adjustment
- CCRP

4.4.4. Setting up anfter replacing Display Units

4.4.4.1 Clearing operation time of Workstation

Open the service menu for Engineers by entering password 0009 at [Menu] -> [Code Input].
Click [Maintenance] -> [Operation Time Setup] tab.



Clearing the total operation time of a Workstation

1. Click on the [Clear] button next of Total.

Clearing the operation time of a LCD

1. Click on the [Clear] button next of LCD.

Clearing the operation time of a LCD Fan

1. Click on the [Clear] button next of LCD FAN.

Clearing the operation time of a CCU Fan

1. Click on the [Clear] button next of CCU FAN.

Clearing the operation time of a CCU

1. Click on the [Clear] button next of CCU.

Clearing the operation time of a PSU FAN

1. Click on the [Clear] button next of PSU FAN.

Clearing the operation time of a UPS

1. Click the calendar picker button in order to enter the date of UPS replacement.
The check box on the left of "Setup Date (UTC) " will be reset.
2. Select it again, and the operation time of a UPS will return to 0.