

VersaUV

LEF-12 LEF-20

ECO-UV4 Ink Switching Method

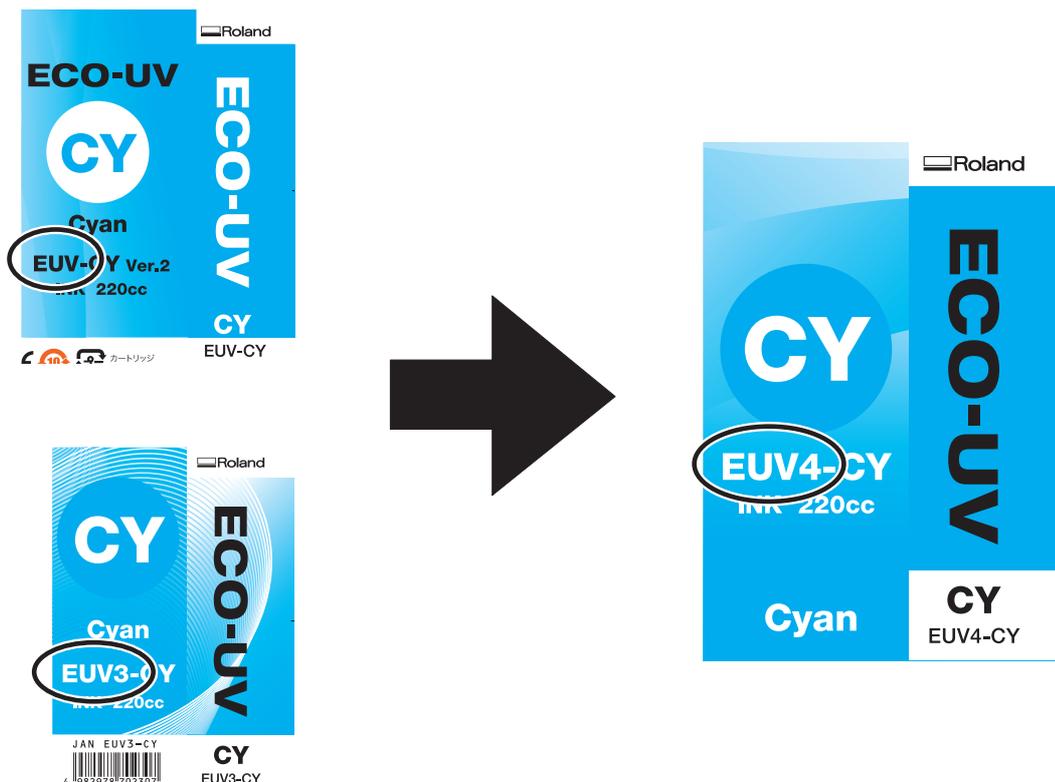
About this Manual

This manual explains how to switch the ink being used from ECO-UV ink (hereinafter called EUV ink) or ECO-UV3 ink (hereinafter called EUV3 ink) to ECO-UV4 (hereinafter called EUV4 ink)*

To prevent the ink from mixing, perform operations according to the procedures given in this manual.

* Colors with EUV4 ink are different than with EUV and EUV3 ink.

* Switching from EUV3 ink to EUV4 ink is not possible.



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- In this operation manual, excluding the case where "Roland VersaWorks" is shown on the computer screen, "Roland VersaWorks" is written as "VersaWorks."
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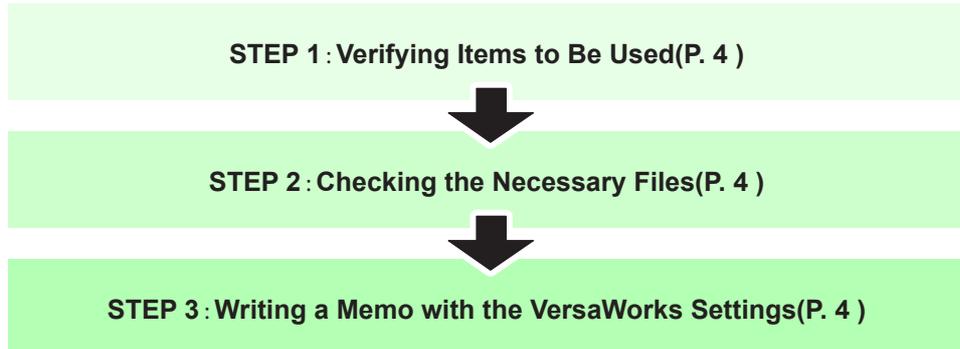
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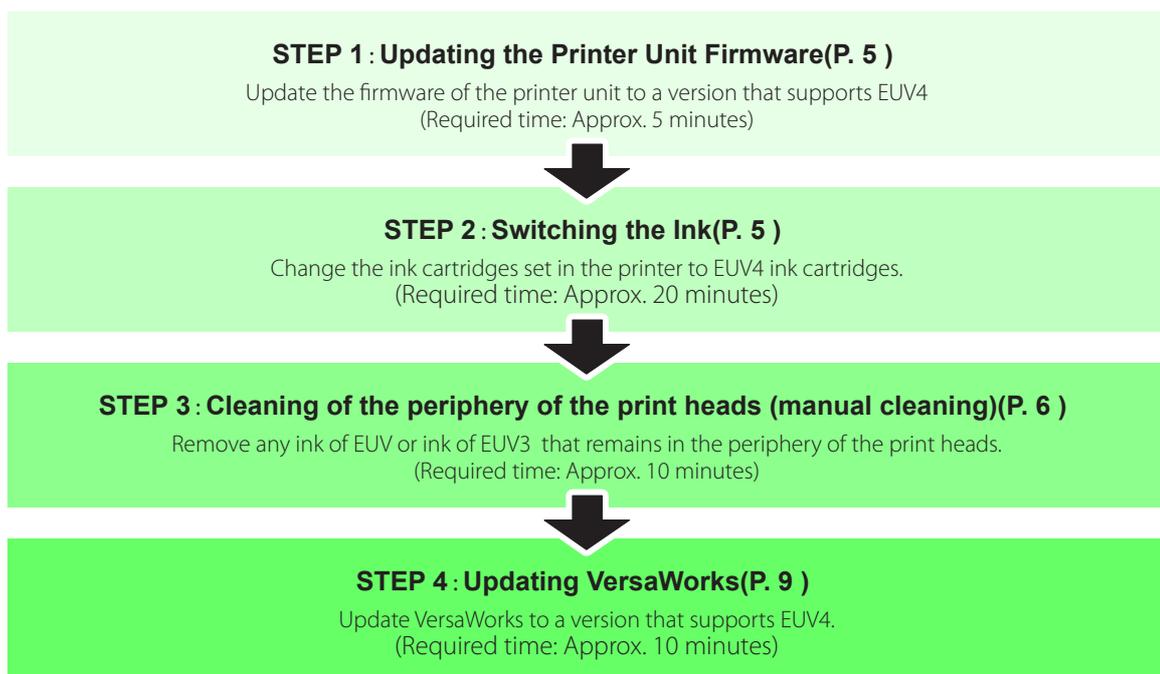
Introduction

Overall Flow

Preparation before Operations



Switching the Ink



Preparation before Operations

STEP 1 : Verifying Items to Be Used

The following items are used for the operations in this manual. Verify that you have all the items before beginning.

Items included with printer	
 Cleaning sticks	 Cleaning liquid

* You must prepare the replacement ink yourself.

STEP 2 : Checking the Necessary Files

The firmware and updater downloaded from <http://www.rolanddg.com/euv4/> are necessary for the operations in this manual. Check that the following files are present.

	Firmware (in the "Firmware" folder)	VersaWorks updater (in the "Roland VersaWorks local updater" folder)
LEF-12	LEF12Firm230.exe	LocalUpdater.exe (Ver. 5.4.0 or later)
LEF-20	LEF20Firm200.exe	

If the above files are not present, download them from the following URL.
<http://www.rolanddg.com/euv4/>

STEP 3 : Writing a Memo with the VersaWorks Settings

Important

As the final step when you switch the ink, update VersaWorks (Hereinafter called VersaWorks) to a version that supports EUV4 ink. After the update, because the printer that has been switched to EUV4 ink will be connected as a new printer, the previous job data and settings will be deleted. Write down the IP address and the settings of the connected printer such as "Quality."

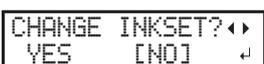
Switching the Ink

STEP 1 : Updating the Printer Unit Firmware

Use the file that you have downloaded to update the firmware of the printer unit to a version that supports EUV4 ink. For the update method, refer to "readme.pdf," the file that you downloaded at the same time as the firmware.

STEP 2 : Switching the Ink

1. Display the [CHANGE INK] menu.

- 1 Press 
- 2  Press  several times to display the left figure.
Press 
- 3  Press  several times to display the left figure.
Press , and then .
- 4  Press 
- 5  Press  or  and select "YES."
Press 

2. Switch the ink cartridges.

- 1  When the screen on the left is displayed, open the front cover, remove the drain bottle, and discard the discharged fluid.

⚠ CAUTION Before you detach the drain bottle, be sure to wait for the screen to display "EMPTY DRAIN BOTTLE." After discarding the discharged fluid, promptly attach the drain bottle to the machine.

Failing to follow this procedure may cause discharged fluid to flow out of the machine and spill, soiling your hands or the floor.

⚠ WARNING Never place discharged fluid near open flame.
Doing so may cause fire.

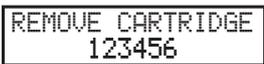
⚠ CAUTION To store discharged fluid temporarily, place it in the included drain bottle or in a durable sealed container such as a metal can or polyethylene tank, and cap tightly.
Any spillage or vapor leakage may cause fire, odor, or physical distress.

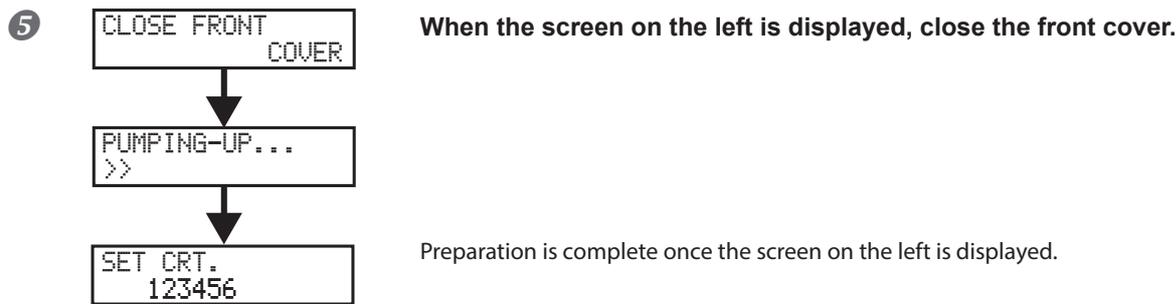
Dispose of discharged fluid properly, in accordance with the laws in effect in your locale.

Discharged fluid is flammable and contains toxic ingredients. Never attempt to incinerate discharged fluid or discard it with ordinary trash. Also, do not dispose of it in sewer systems, rivers, or streams. Doing so may have an adverse impact on the environment.

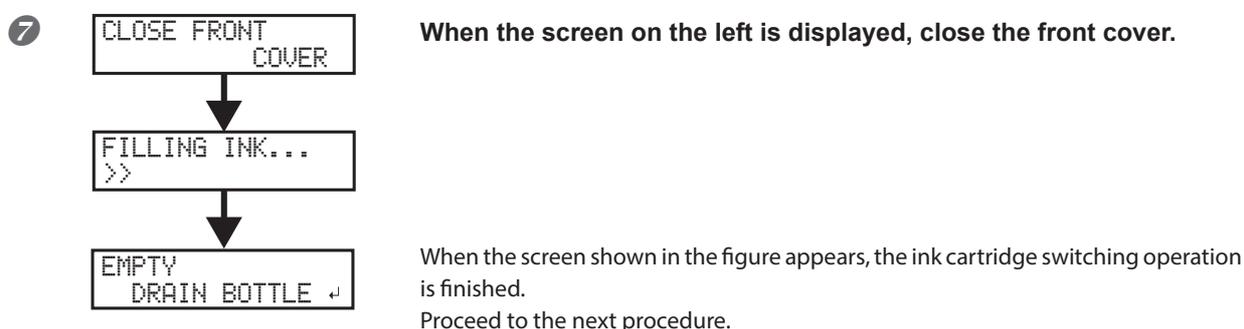
- 2 Install the drain bottle.

- 3 Press 

- 4  Remove all the currently inserted ink cartridges.



6 Set the new EUV4 ink cartridges in place.



STEP 3 : Cleaning of the periphery of the print heads (manual cleaning)

IMPORTANT!

Important Notes on This Procedure

- Before attempting this operation, remove any media.
- Cleaning requires the cleaning liquid and cleaning sticks included with the printer. Please have these items ready.
- To prevent the print heads from drying out, finish this procedure in 10 minutes or less. A warning beep sounds after 10 minutes.
- Never use any implement other than the included cleaning stick. Cotton swabs or other lint producing items may damage the heads. If you use up the cleaning stick, purchase a new one from your authorized Roland DG Corp. dealer.
- Use one cleaning stick per cleaning session, then discard the stick after use. Reusing cleaning sticks may reduce printing quality.
- Do not put the cleaning stick used for cleaning into the cleaning liquid. It will deteriorate the fluid.
- Never rub the nozzle surface of the print heads.
- Stroke the sponges very gently, applying as little pressure as possible. Never rub, scrape, or crush them.
- Do not clean the UV irradiation device. Cleaning it recklessly may damage the irradiation surface. The UV irradiation device must be cleaned by a suitably qualified service technician.

⚠ CAUTION

Be sure to perform operations as specified by the instructions, and never touch any area not specified in the instructions.
Sudden movement of the machine may cause injury.

1. Prepare for manual cleaning.

IMPORTANT! If a warning beep sounds

If the operations are not completed within 10 minutes, a warning beep will sound to warn you of the print heads drying out. If the warning beep is heard, temporarily halt the work, close the front cover, and press **ENTER**. This temporarily interrupts the operations. After you interrupt the operations, you cannot continue the operations with the procedures in this manual. Refer to the user's manual of the model that you are using and perform the operations according to the details listed under \Rightarrow P. 13, "When Operations Are Interrupted".

1

EMPTY
DRAIN BOTTLE

When the screen on the left is displayed, open the front cover, remove the drain bottle, and discard the discharged fluid.

2

Install the drain bottle.

3

Press **ENTER**

4

OPEN FRONT
COVER

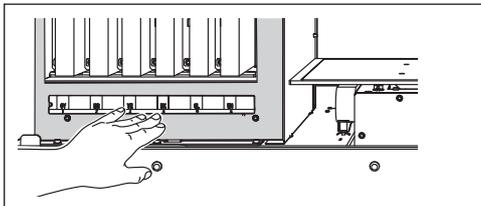
When the screen on the left is displayed, open the front cover.

MANUAL CLEANING
FINISHED?

Preparations are complete when this screen appears.

2. Perform the manual cleaning.

1



Touch the location shown in the figure (under the ink cartridge cover) to discharge any static electricity.

2

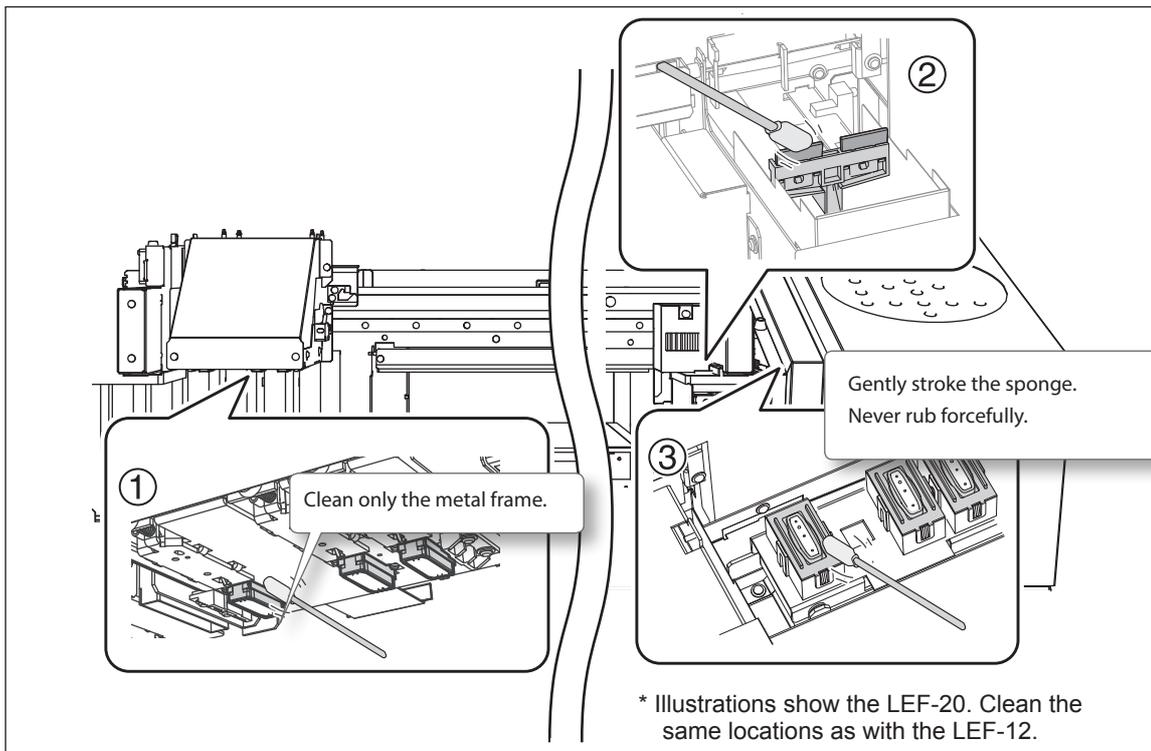


Moisten the cleaning stick with the cleaning liquid. Be sure to use one of the included cleaning sticks.

3 Clean in the sequence shown in the figure below.

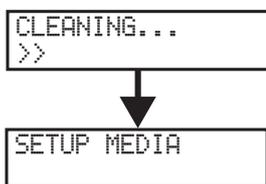
Be especially careful to clean away any fibrous dust (lint).

While cleaning, be careful not to touch the head surfaces (nozzle surface) directly with the stick.



4 Close the front cover.

5 Press **ENTER**



The screen shown in the figure appears, then cleaning starts.

When the screen shown in the figure appears, manual cleaning is finished.

STEP 4 : Updating VersaWorks

1. Update VersaWorks.

- ① Refer to <http://www.rolanddg.com/ecosolmax/> and update VersaWorks to a version that supports EUV4 ink
- ② If VersaWorks is running, exit it.

From this point, the procedure differs depending on the type of printer that is connected to VersaWorks.

When only a printer that has been switched to EUV4 ink is connected to VersaWorks.(P. 9)

Initialize VersaWorks, and then reconnect the printer to it as a new printer. All the information will be deleted due to the initialization. We recommend that you write down the IP address of the printer that you will reconnect and the settings of the VersaWorks application that you want to continue to use.

When a printer that does not use EUV4 ink is connected to VersaWorks.(P. 11)

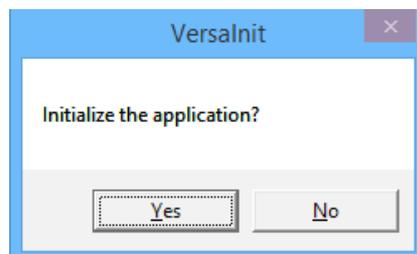
Leave the printer that does not use EUV4 ink connected (leave the information set in VersaWorks). Only reconnect the printer that has been switched to EUV4 ink as a new printer. All the information of the newly reconnected printer is deleted (the information of the printer that does not use EUV4 ink remains), so we recommend that you write down the IP address of the printer that has been switched to EUV4 ink and the settings of the VersaWorks application that you want to continue to use.

When only a printer that has been switched to EUV4 ink is connected to VersaWorks

2. Initialize VersaWorks.

- ① **Windows VISTA / 7**
 - ① Click [Start]() menu.
 - ② Click [All Programs] (or [Program]) - [Roland VersaWorks] - [Initialize Application].
- Windows 8**
 - ① Right-click on [Start] screen.
 - ② Click  [All apps].
 - ③ Click [Initialize Application] of Roland VersaWorks.
- Windows 8.1**
 - ① Click  on the [Start] screen.
 - ② Click "Initialize Application" of Roland VersaWorks.

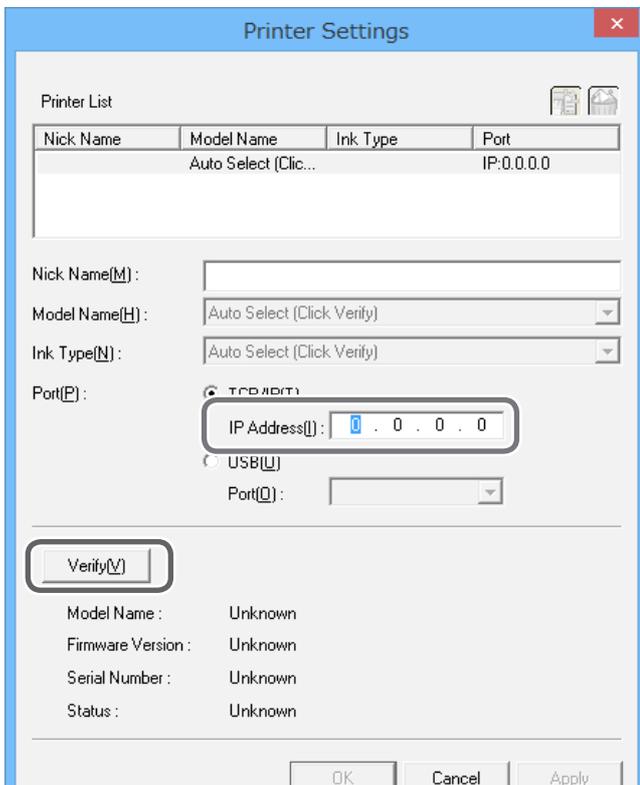
②



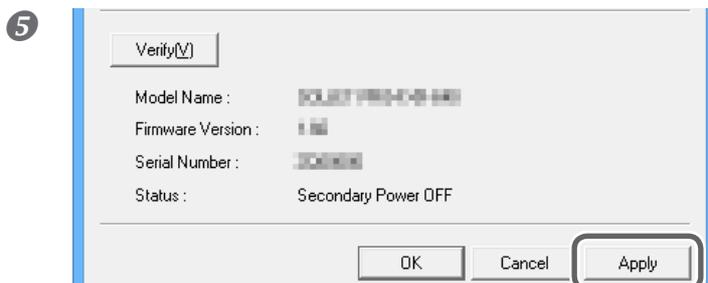
When the message shown in the figure is displayed, click [Yes].

3. Reconnect a printer that has been switched to EUV4 ink to VersaWorks.

- 1 **Start VersaWorks.**
The [Printer Settings] screen will appear.
- 2 **Set [IP address] to the IP address of the printer that has been switched to EUV4 ink.**
- 3 **Click [Verify].**



Check that [Ink type] is the EUV4 ink.
This indicates that you have successfully reconnected to a printer that has been switched to EUV4 ink.



Click [Apply].
The printer that has been switched to EUV4 ink is displayed under [Printer List].

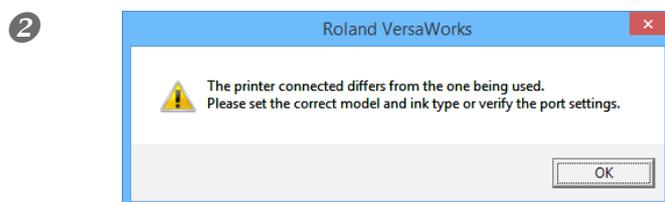
- 6 If there are multiple printers that have been switched to EUV4 ink click .
Repeat steps 2 to 5 to reconnect to these printers that have been switched to EUV4 ink.
- 7 Click [OK].

This completes the operations to switch to EUV4 ink.

When a printer that does not use EUV4 ink is connected to VersaWorks

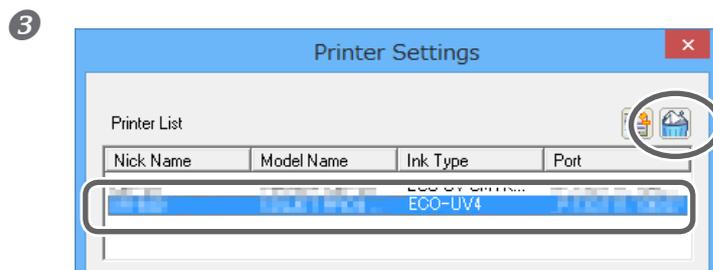
2. Temporarily delete a printer that has been switched to EUV4 ink from VersaWorks.

- 1 Start VersaWorks.

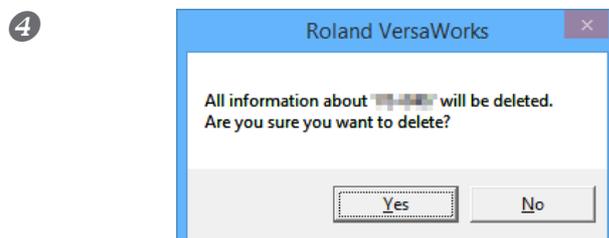


When the window shown in the figure is displayed, click [OK].

The "Printer Settings" window is displayed.



Select a printer that has been switched to EUV4 ink under [Printer list], and then click .

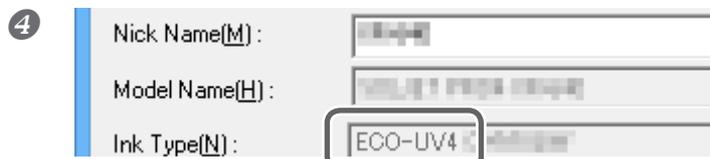
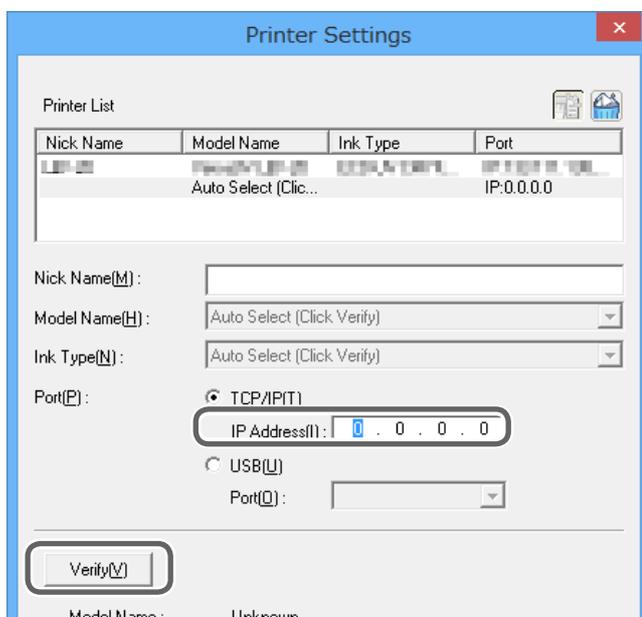


When the screen shown in the figure appears, confirm that you want to delete the selected printer, and then click [Yes].

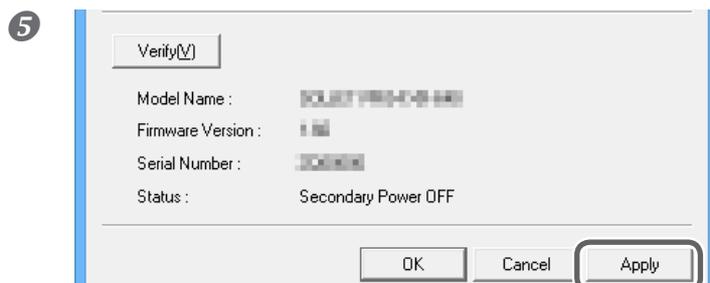
The selected printer disappears from the [Printer list].

3. Reconnect a printer that has been switched to EUV4 ink to VersaWorks.

- 1 Click .
- 2 Set [IP address] to the IP address of the printer that was temporarily deleted (the printer that has been switched to EUV4 ink).
- 3 Click [Verify].



Check that [Ink type] is the EUV4 ink
 This indicates that you have successfully reconnected to a printer that has been switched to EUV4 ink.



Click [Apply].
 The printer that has been switched to EUV4 inks displayed under [Printer list].

- 6 If there are multiple printers that have been switched to EUV4 ink, click . Repeat steps 2 to 5 to reconnect to these printers that have been switched to EUV4 ink.
- 7 Click [OK].

When Operations Are Interrupted

When the Message "CANCELED FOR MOTOR PROTECTION" Is Displayed

This message indicates that the machine's operations have been canceled in order to prevent pump motor malfunctions arising from overheating.

If this message is displayed, press the sub power switch to turn the sub power off. Then, wait approximately 10 minutes before turning the sub power switch on again. The operation will continue from the point where it was interrupted.

When the Cleaning Operation Is Interrupted

➤ **STEP3:Cleaning of the periphery of the print heads (manual cleaning)**

If you interrupt the above operations partway through the procedure, you cannot continue the operations with the procedure in this manual.

Refer to the corresponding page for the following sections of the user's manual of the model that you are using and then perform operations.

"Manual Cleaning "

If you do not perform all the operations, color mixing will occur in the ink. If you interrupt operations partway through the procedure, be sure to perform the above operations.

