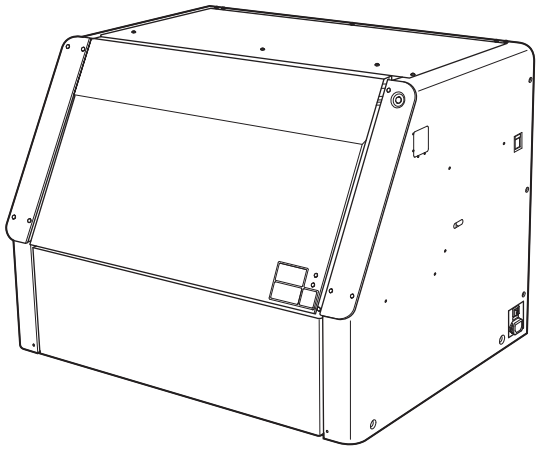
VersaSTUDIO

BD-8 BD-12

Installation and Initial Settings



Thank you very much for purchasing this product.

- To ensure correct and safe usage with a full understanding of this product's performance, please be sure to read through this manual completely.
- Unauthorized copying or transferal, in whole or in part, of this manual is prohibited.
- The specifications of this product and the contents of this operation manual are subject to change without notice.
- The operation manual and the product have been prepared and tested as much as possible. If you find any misprints or errors, please inform us.
- Roland DG Corporation assumes no responsibility for any direct or indirect loss or damage that may occur through use of this product, regardless of any failure to perform on the part of this product.
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R5-260930

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Roland DG Corporation

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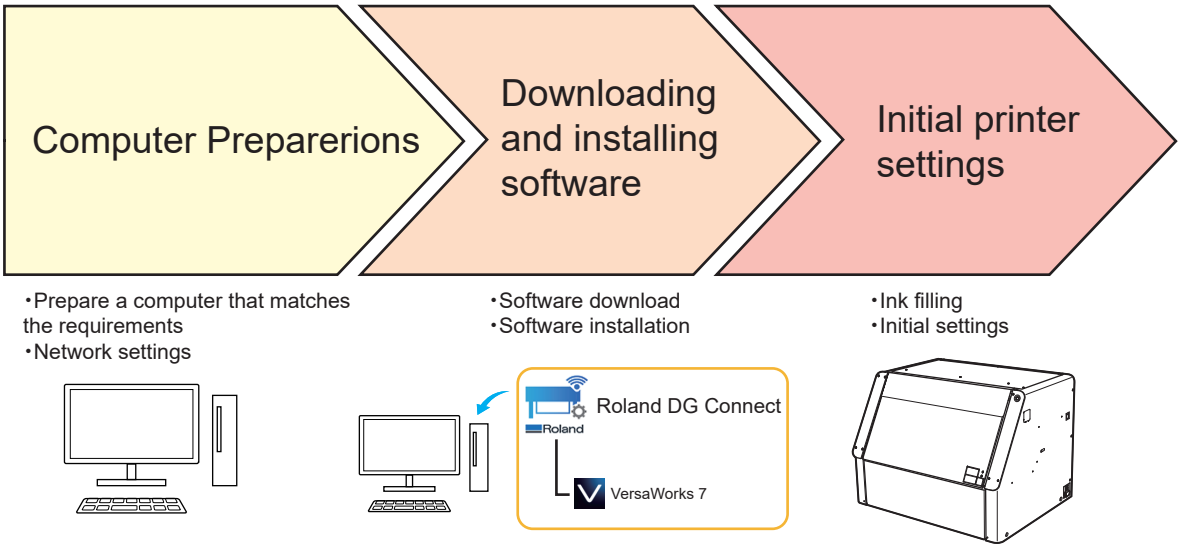
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Read This First

This manual explains the operating procedure once this machine is installed.
Perform operations according to the instructions described in this manual.
In this manual, the objects to be printed are called the "object" or "media."



About the Documentation for This Machine

The following instruction manuals are included to ensure proper use of the machine.

- **Safety Precautions**

  This manual contains important precautions for using the machine.
- **Quick Access Guide**

  This guide contains the setup flow for this machine as well as links to procedures.
- **Regular Maintenance Guidelines**

  These guidelines include links to maintenance items listed in the manual. Scan the QR code to open the maintenance instructions directly.
- **Machine Installation**

  This guide contains details on how to install the machine.
- **Installing the Software and Configuring Its Initial Settings**

  This guide contains information on how to configure the initial settings of the machine.
- **User's Manual**

  This manual contains details such as how to use and maintain the machine as well as an FAQ (a set of frequently asked questions).
- **Roland DG Connect Designer User's Manual**

  This guide contains basic operating instructions for the design and output software.
- **Videos**

  These are the support videos for the manuals. The videos help guide users through explanations that are not easily understood through text and illustrations only.

MEMO

View the manuals and videos from the following URL.
https://downloadcenter.rolanddg.com/BD-8

Screen captures from Windows are used for Utility windows in these manuals.

System Requirements/Overview

System Requirements

Prepare a computer that matches the requirements.

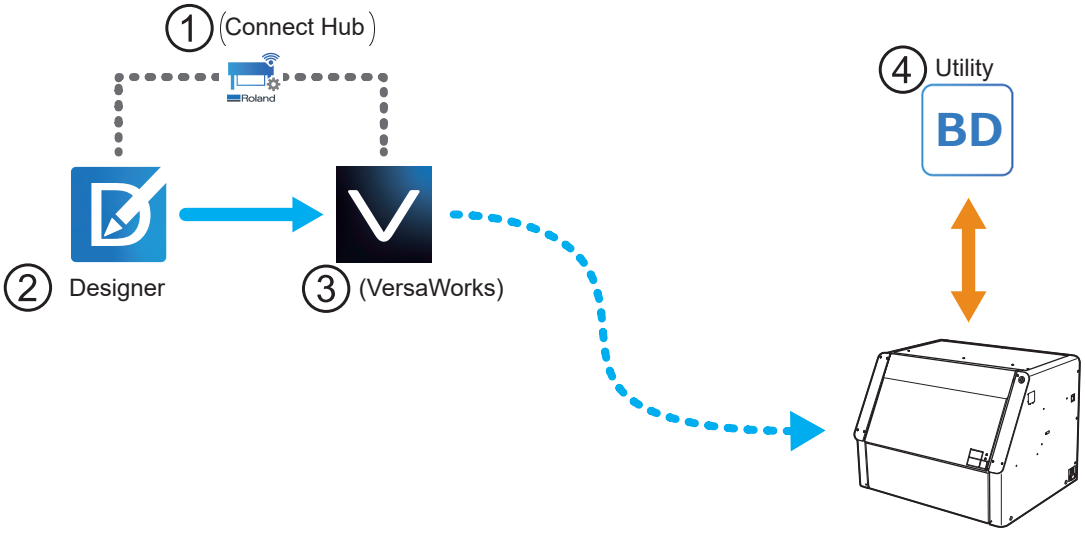
	Windows	Mac
Operating system (OS)	Windows 11	macOS 26, 15, 14
CPU	Intel Core i5 4670 or higher	Apple Silicon
Memory	16 GB or more	8 GB or more
Video card, monitor	Full HD (1,920 × 1,080 pixels, 24-bit color)	1,280 × 1,024 pixels or above
Solid state drive	256 GB or more free space	128 GB or more
Hard disk	500 GB or more free space	
Others	Internet connectivity, web browser, and Ethernet port	

Software to Be Used

The software to be used is listed below.

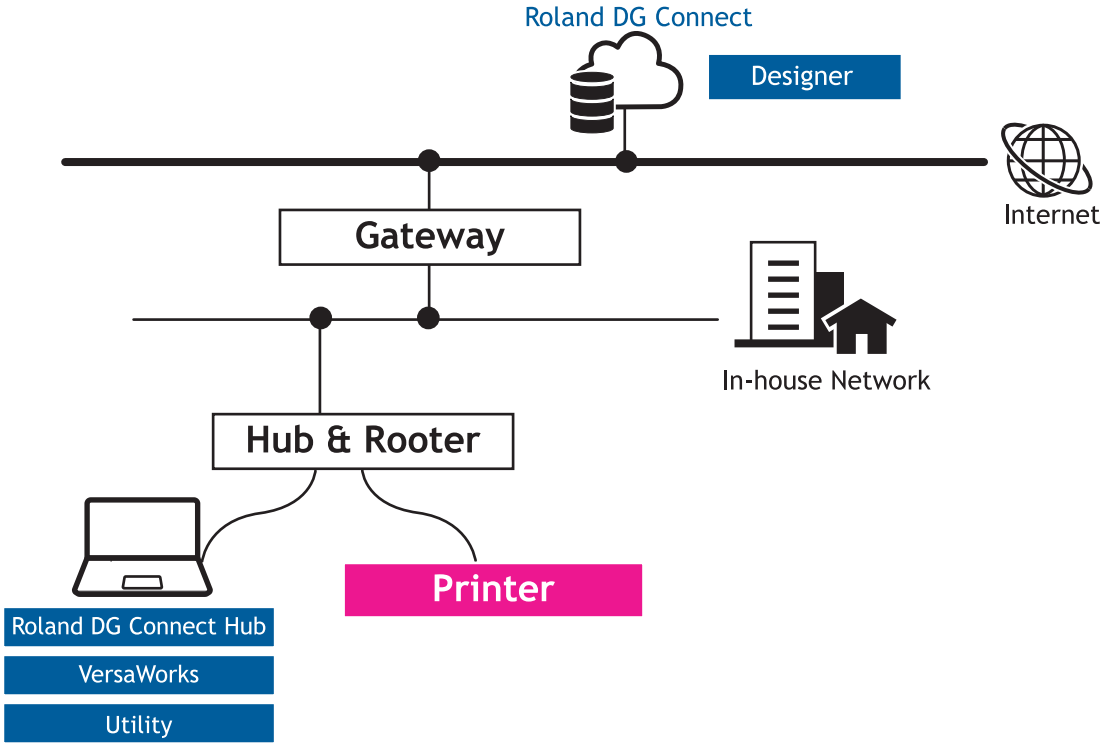
In this manual, "Roland DG Connect Hub" is written as "Connect Hub," "Roland DG Connect Designer" as "Designer," "VersaWorks 7" as "VersaWorks," and "BD Utility" as "Utility."

①	Connect Hub	System hub software. The major functions are shown below. • Starting Designer, VersaWorks, and Utility • Transferring data between Designer and VersaWorks • Transferring printer status and operating information required for the Roland DG Connect service
②	Designer	Design software used on Roland DG Connect. The software makes it easy to create print data, set print settings such as media and quality, and output via VersaWorks.
③	VersaWorks 7	Software RIP (Raster Image Processor). For more information on the functions, see the VersaWorks 7 manuals.
④	Utility	Software that is needed to operate the machine. The major functions are shown below. • Settings and adjustments • Management of ink remaining amount • Maintenance • Display of messages and error messages



When using commercially available design software such as Adobe Illustrator or CorelDRAW, the created data (.pdf, .ai, etc.) can be imported into Designer for editing. The data can also be directly imported into VersaWorks and output after configuring the print properties.

Network Configuration Diagram



Network Settings

IMPORTANT

The machine and computer are connected using an IP address that is automatically assigned via DHCP.

Setting the Computer's Network

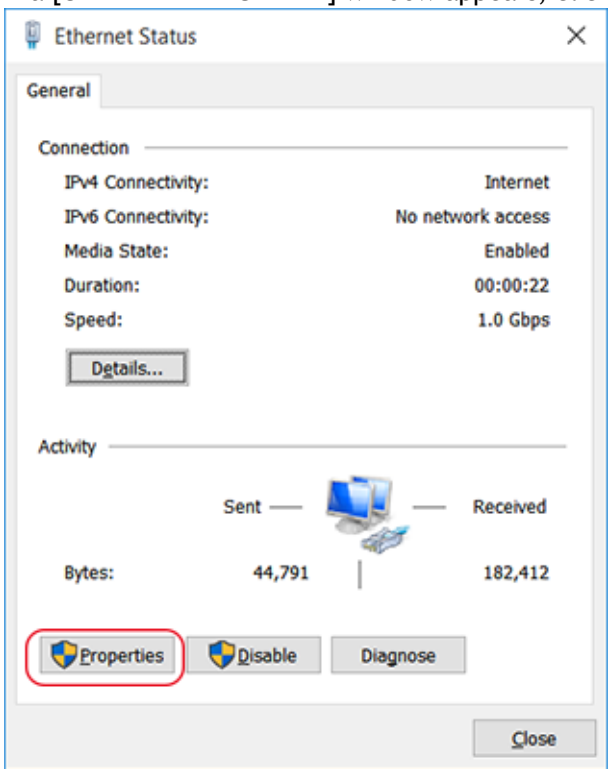
Windows

This manual contains operation explanations for the following versions. Operations and names may vary depending on the version and build of the OS.

- Windows 11
  Version 24H2

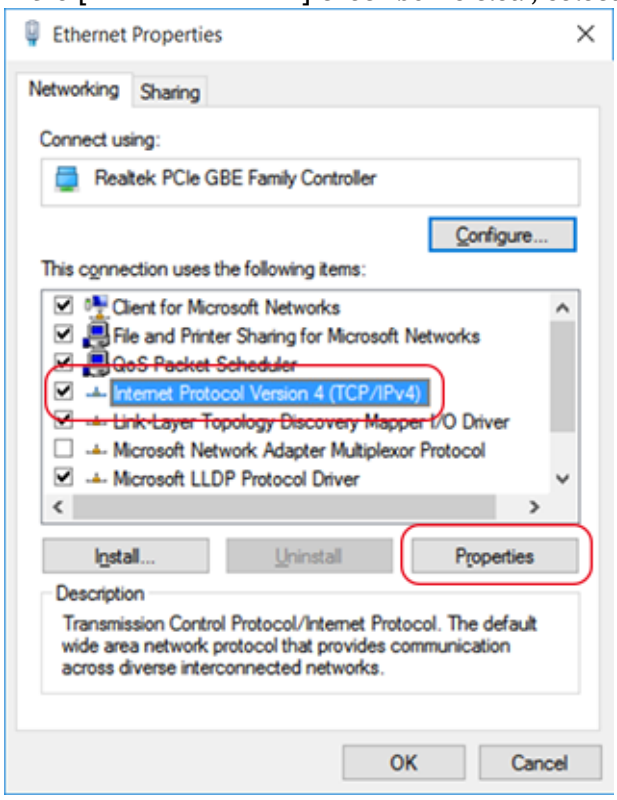
Procedure

1. **Log on to Windows as the [Administrator] or a member of the [Administrators] group.**
2. **Open Control Panel.**
   Search for "Control Panel" from the taskbar.
3. **Click [Network and Sharing Center].**
4. **Click [Ethernet] or [Wi-Fi].**
5. **Click [Properties].**
   If a [**User Account Control**] window appears, click [**Continue**].

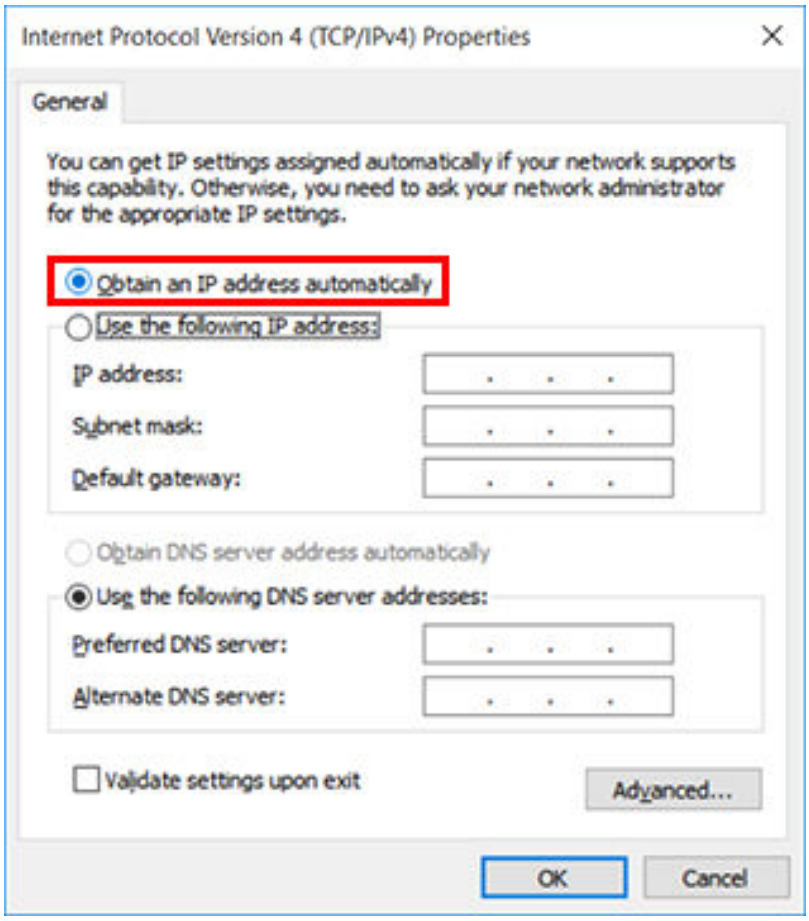


   The [**Ethernet Properties**] or [**Wi-Fi Properties**] window appears.

6. **Select [Internet Protocol Version 4 (TCP/IPv4) Properties], and then click [Properties].**
   If the [**Internet Protocol**] check box is clear, select it.



7. **Select [Obtain an IP address automatically] and click [OK].**



8. **Click the following buttons to return to the original state.**
   a. [**Cancel**] in the [**Ethernet Properties**] or [**Wi-Fi Properties**] window
   b. [**Cancel**] in the [**Ethernet Status**] or [**Wi-Fi Status**] dialog box

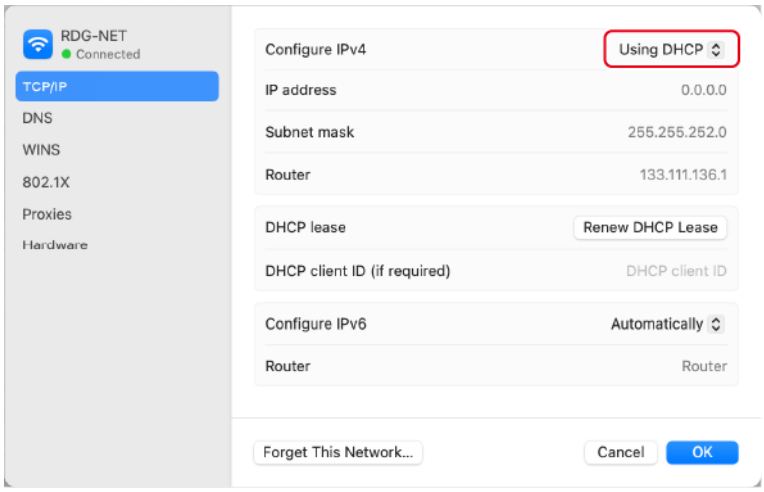
Mac

This manual contains operation explanations for the following versions. Operations and names may vary depending on the version and build of the OS.

- Mac
  macOS 15.2

Procedure

1. **Log on to the Mac as the "Administrator."**
2. **From the Apple menu, click [System Settings...].**
3. **Click [Network]>[Wi-Fi] or the network name (when using Ethernet).**
4. **Click [Details...].**
5. **Click [TCP/IP].**
6. **Select [Using DHCP] for [Configure IPv4].**


RDG-NET
Connected
TCP/IP
DNS
WINS
802.1X
Proxies
Hardware
Configure IPv4
Using DHCP
IP address
0.0.0.0
Subnet mask
255.255.252.0
Router
133.111.136.1
DHCP lease
Renew DHCP Lease
DHCP client ID (if required)
DHCP client ID
Configure IPv6
Automatically
Router
Router
Forget This Network...
Cancel
OK

7. Click [OK].

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Software Setup

IMPORTANT

A connection to the Internet is required to set up the software.

Step 1: Creating a Roland DG Connect Account

If you already have a Roland DG Connect ID, you do not need to create an account. Proceed to Step 2: Downloading and Installing Roland DG Connect Hub(P. 14).

Procedure

1. **Start the computer.**
2. **Access the following website.**
   https://connect.rolanddg.com/
3. **Click [Sign Up], and then create a Roland DG Connect account.**
   Create an account according to the information in the Master Initial Setting Guide.
   https://support.rolanddg.co.jp/hc/ja/articles/43642150668953

   MEMO

   You can also use the ID that you have created with [**Sign Up**] in Roland DG Connect with [**Sign In**] in Roland DG Connect Hub.

Step 2: Downloading and Installing Roland DG Connect Hub

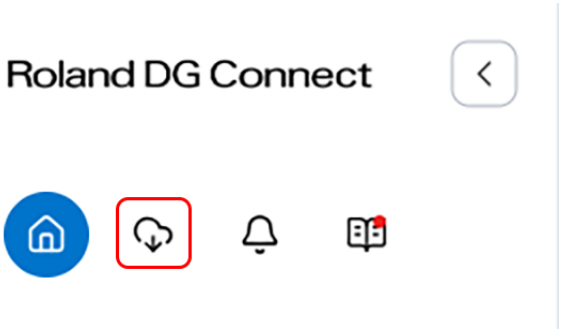
Procedure

1. **Log in to Roland DG Connect.**
   https://connect.rolanddg.com/

   MEMO

   If you have not closed the page displayed after you created a Roland DG Connect account, you do not need to log in again. Proceed to Step 2.

2. **Click .**



3. **Download Roland DG Connect Hub.**
   Roland DG Connect Hub is available for Windows and Mac. Download the version for your OS.

4. **Install Roland DG Connect Hub from the downloaded file.**
   Follow the on-screen instructions to install Roland DG Connect Hub.

Step 3: Signing in to Roland DG Connect Hub

Start Roland DG Connect Hub and sign in.

If you select the [**Launch Roland DG Connect Hub**] checkbox in the Roland DG Connect Hub setup wizard, Roland DG Connect Hub will start automatically after setup finishes.

To sign in, use the Roland DG Connect ID that you created in Step 1: Creating a Roland DG Connect Account(P. 13).

Step 4: Registering the Machine to Roland DG Connect Hub

Refer to the procedure below to register the printer to Connect Hub.
https://support.rolanddg.co.jp/hc/ja/articles/44190364320537

Step 5: Installing VersaWorks from Roland DG Connect Hub

Use Roland DG Connect Hub to install VersaWorks.

Procedure

1. **Start [Roland DG Connect Hub].**
   - Windows
     Click the [**Roland DG Connect Hub**] icon in the notification area.
   - Mac
     Click the [**Roland DG Connect Hub**] icon on the Dock.

   IMPORTANT

   When using Windows, if you have cleared the [**Launch Roland DG Connect Hub**] checkbox in the Roland DG Connect Hub setup wizard, start the software from the [**Start**] menu after setup finishes.

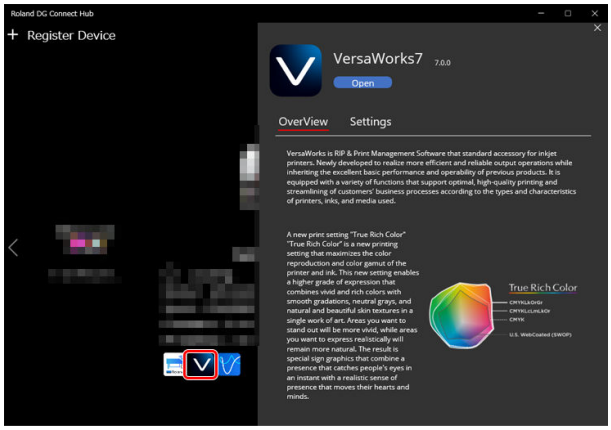
2. **In the main window, select the machine to use.**

   MEMO

   If the printer to register cannot be found, see the "Roland DG Connect Help."
   https://support.rolanddg.com/hc/en-us/categories/6469527154585-Roland-DG-Connect

3. **Click** .

   The sidebar is displayed on the right side of the window.



4. **Click [Install].**

   After installation completes, click  to start VersaWorks.

Step 6: Configuring VersaWorks Settings

For information on how to connect the printer after installing VersaWorks, see the VersaWorks Installation Guide.

Actions to Take When Machine Information Is Not Displayed in Roland DG Connect Hub

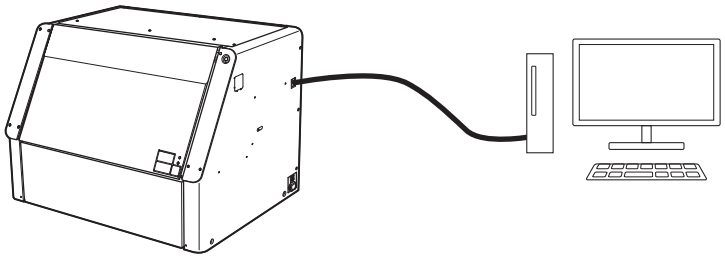
- If machine information is not displayed in Roland DG Connect Hub, refer to the following information and bring the computer and this machine into the same subnet mask.

  P. 7 Network Configuration Diagram
- If the computer and this machine cannot be brought into the same subnet mask, refer to Directly Connecting to the Computer(P. 19) and connect them directly, and then configure the network settings for the computer and printer.

Directly Connecting to the Computer

This section explains the setting procedure for connecting one computer and one machine directly, not over a network.

IP addresses that start with "192.168." can be used freely by anyone. Use one of these addresses when connecting one computer and one machine in an environment separate from other networks.



1. Make the Network Settings on the Printer

Procedure

1. **On the Utility home screen, click ☰.**

2. **Click [System Information], and then clear the [Obtain IP Address Automatically] checkbox under [Network].**

3. **Enter the [IP Address] and [Subnet Mask].**

   (1) **Enter the [IP Address].**

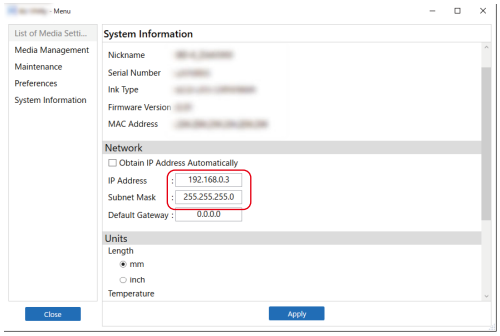
Item	Address to enter
IP address	192.168.0.XXX
Subnet mask	255.255.255.0

   Note: Here, "XXX" may be any number you want from 1 to 254. Ensure that it is different from the numbers of other equipment.

   Here, "192.168.0.3" is entered by way of example.

   (2) **Enter the [Subnet Mask].**

   Enter the same subnet mask as the one used by the computer.



4. Click [Apply].

2. A: Setting the Computer's Network (Windows)

MEMO

Operation methods may vary depending on the version and build of the OS.

Procedure

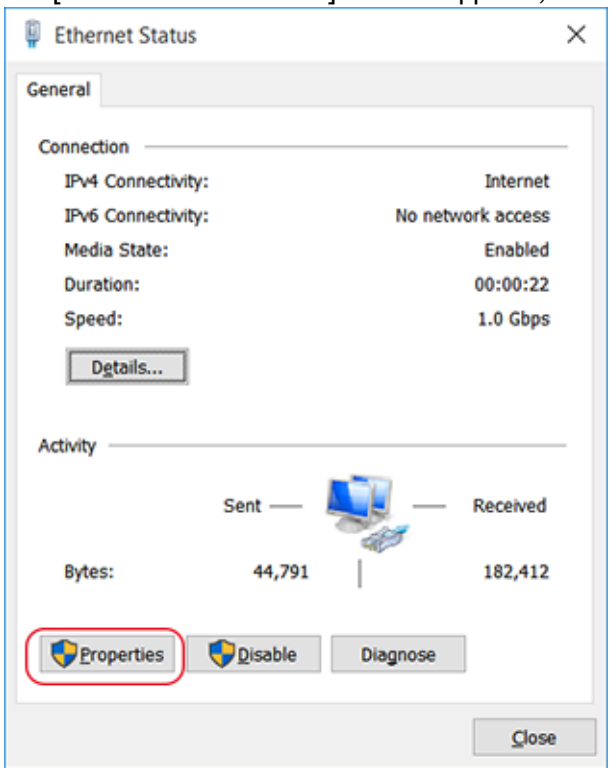
1. **Log on to Windows as the [Administrator] or a member of the [Administrators] group.**

2. **Open Control Panel.**
   Search for "Control Panel" from the taskbar.

3. **Click [Network and Sharing Center].**

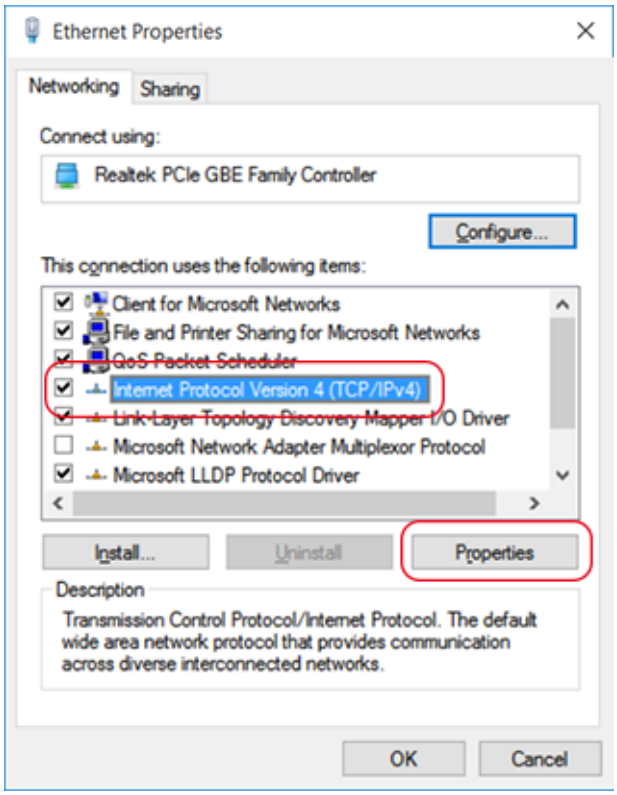
4. **Click [Ethernet].**

5. **Click [Properties].**
   If a [**User Account Control**] window appears, click [**Continue**].



   The [**Ethernet Properties**] screen appears.

6. **Select [Internet Protocol Version 4 (TCP/IPv4) Properties], and then click [Properties].**
   If the [**Internet Protocol**] check box is clear, select it.



7. **Select [Use the following IP address], enter the IP address and subnet mask, and click [OK].**

MEMO

The addresses in the following table are examples used for the explanations in this manual. Enter the desired IP address and subnet mask.

Item	Address to enter
IP address	192.168.0.XXX
Subnet mask	255.255.255.0

"XXX" represents a number from 1 to 254. However, do not use the same number as set in "Make the Network Settings on the Printer."



8. **Click the following buttons to return to the original state.**

a. [**Cancel**] in the [**Ethernet Properties**] window

b. [**Cancel**] in the [**Ethernet Status**] window

2. B: Setting the Computer's Network (Mac)

MEMO

The following operation procedure uses macOS 15.1. Operation methods may vary depending on the version of Mac OS or the build of the OS.

Procedure

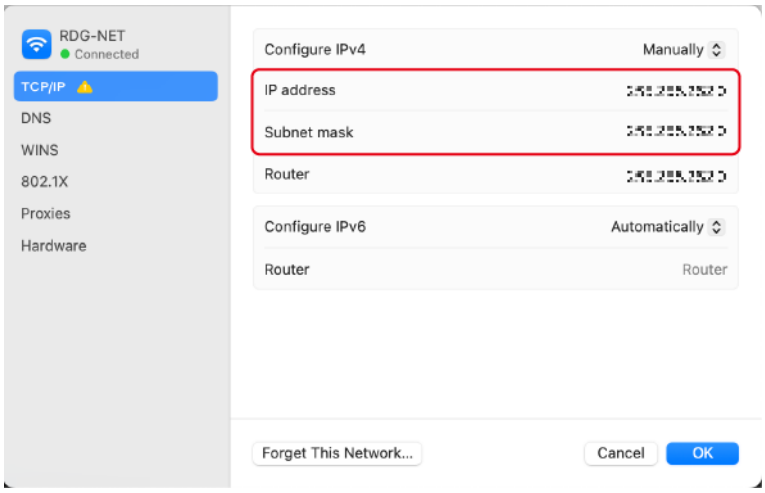
1. **Log on to the Mac as the "Administrator."**
2. **From the Apple menu, click [System Settings...].**
3. **Click [Network]>[Wi-Fi] or the network name (when using Ethernet).**
4. **Click [Details...].**
5. **Click [TCP/IP].**
6. **Select [Manually] for [Configure IPv4].**
7. **Enter the [IP address] and [Subnet mask].**

   MEMO

   The addresses in the following table are examples used for the explanations in this manual. Enter the desired IP address and subnet mask.

Item	Address to enter
IP address	192.168.0.XXX
Subnet mask	255.255.255.0

   Here, "XXX" can be any number from 1 to 254. Ensure that it is different from the numbers of other equipment.

8. **Click [OK].**

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Initial Ink Filling and Initial Adjustment

Perform the initial ink filling process, and perform initial adjustment.

IMPORTANT

Remove the rotary axis unit (optional) before performing the initial setup procedure.

An error may occur if you perform the initial setup procedure with the rotary axis unit (optional) installed on the printer.

MEMO

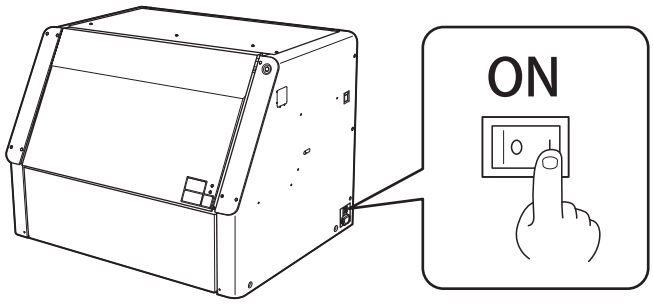
Use the following link to view a reference video for this procedure. We recommend that you view this video to understand the overall flow of work.

https://vimeo.com/907676754/385fa8f31a

Step 1: Starting the Printer and Utility

Procedure

1. **Close the front cover.**
2. **Turn on the main power switch.**

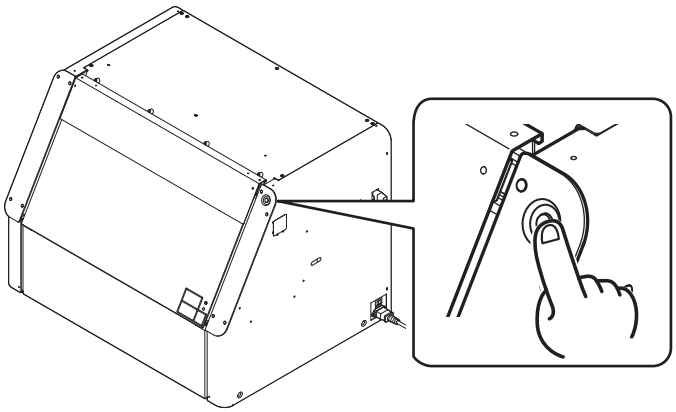


IMPORTANT

Always keep the main power switched on.

Never switch off the main power. Leaving the main power enables automatic maintenance to be carried out periodically. If the automatic maintenance is not carried out, it may result in the breakdown of this machine, such as the breakdown of the print heads.

3. **Press the sub power button.**



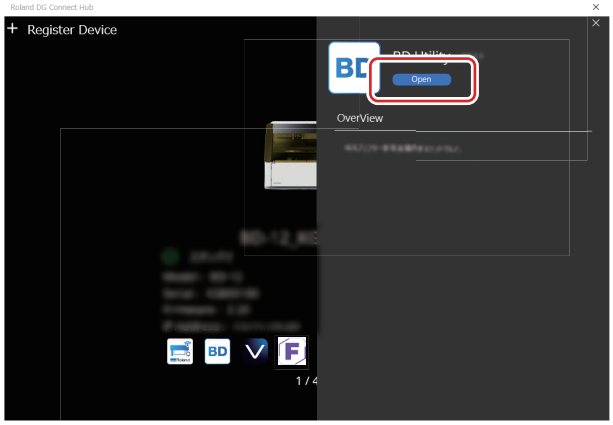
The sub power is switched on. When the sub power button indicator changes from flashing blue to a steady blue color, the flat table has stopped and startup is finished.

MEMO

If the main power is off, turn the main power on to start firmware initialization. There will be no response when pressing the sub power button until initialization is complete. In this case, wait some time before pressing the sub power button.

4. **Start Utility from the Roland DG Connect Hub home screen.**

Click [**Open**] next to Utility.



Next, we will fill the machine with ink.

P. 28 Initial Ink Filling

Step 2: Initial Ink Filling

To prevent discharging problems, perform manual cleaning before the initial ink filling.

MEMO

- The work procedure for manual cleaning appears in the Utility window. Carefully read the on-screen instructions and carry out the work.
- Ink filling begins after manual cleaning is performed.
- Do not stop in the middle of the procedure.
- If the main or sub power is turned off accidentally during initial ink filling, you will need to start over from manual cleaning.

IMPORTANT

Important notes on this procedure

- To prevent the print heads from drying out, finish manual cleaning within 10 minutes after automatic cleaning finishes. A warning beep sounds after 10 minutes.
- Never use any implements other than the included cleaning sticks.
  Fibers or other lint-producing items may damage the print heads. If you use up the cleaning sticks, contact your authorized dealer.
- Use a new cleaning stick per cleaning session. Reusing cleaning sticks may reduce print quality.
- Do not put a cleaning stick that has been used for cleaning into the cleaning liquid. Doing so will deteriorate the cleaning liquid.
- Stroke the sponges very gently, applying as little pressure as possible. Never rub, scrape, or crush them.
- Before inserting ink cartridges, shake each of them 50 times (about 20 seconds).

When a warning beep sounds during cleaning

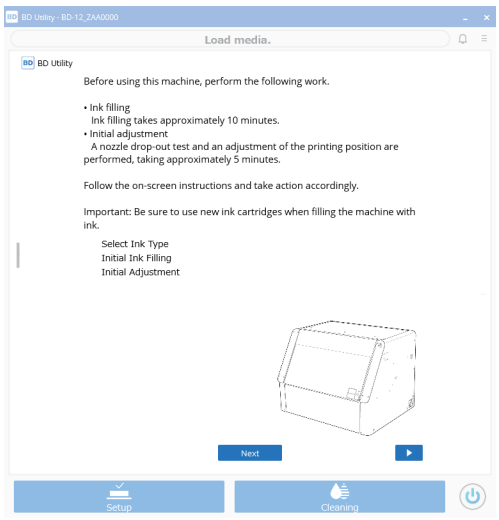
To prevent the print heads from drying out, an alarm sounds about 10 minutes after automatic cleaning finishes. Perform the operation by following the message displayed in the Utility window.

Do not use the manual cleaning tool if it is deformed due to hitting something or being dropped. In this situation, replace this tool.

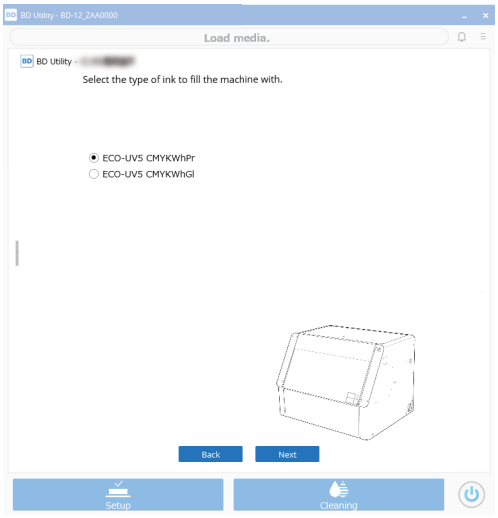
Using a deformed manual cleaning tool may prevent manual cleaning from being carried out properly or damage the machine.

Procedure

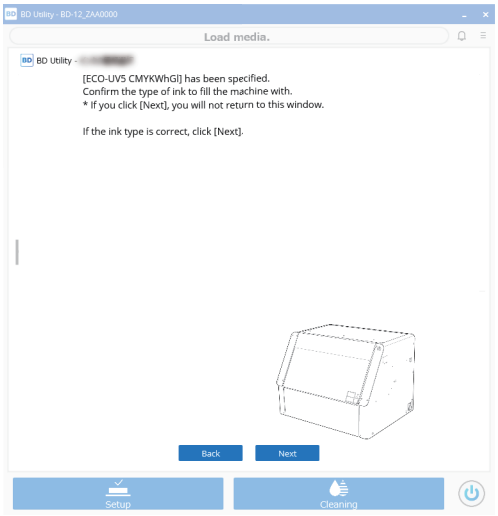
1. Check that the following window is displayed, and then click [Next].



2. Select the type of ink being used for filling, and then click [Next].

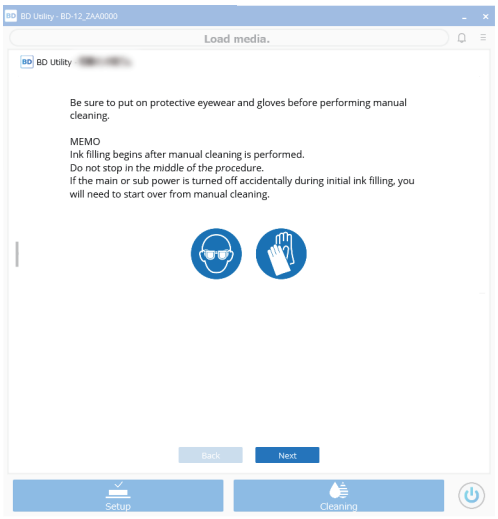


3. **Check the type of ink being used for filling, and then click [Next].**



4. **Wear protective gear (gloves and glasses).**

Once you are wearing protective gear, click [**Next**].



IMPORTANT

When [**Replace the drain pack.**] appears, replace the drain pack, and then click [**Next**].

5. **Prepare a manual cleaning tool.**

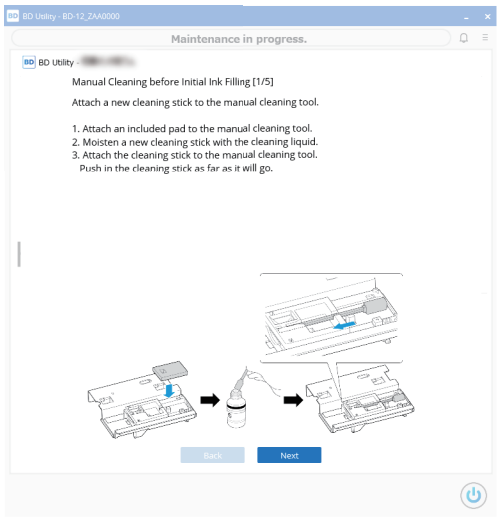
(1) **Attach an included pad to the manual cleaning tool.**

(2) **Apply a large amount of cleaning liquid to a new cleaning stick.**

(3) **Attach the cleaning stick to the manual cleaning tool.**

Push in the cleaning stick as far as it will go to fix it in place.

(4) **Click [Next].**



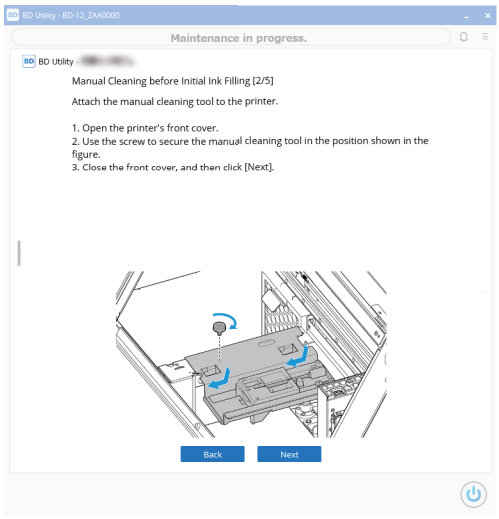
6. **Attach the manual cleaning tool to the printer.**

(1) **Open the front cover.**

(2) **Use the manual cleaning tool fixing screw to secure the manual cleaning tool in the position shown in the figure.**

(3) **Close the front cover, and then click [Next].**

Automatic cleaning of the area near the print heads will begin.



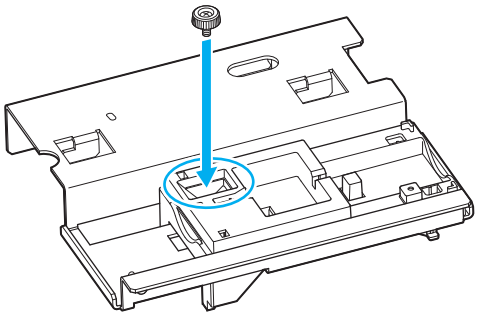
7. **When automatic cleaning finishes, perform the following procedure, and then click [Next].**

(1) **Open the front cover.**

(2) **Remove the manual cleaning tool.**

IMPORTANT

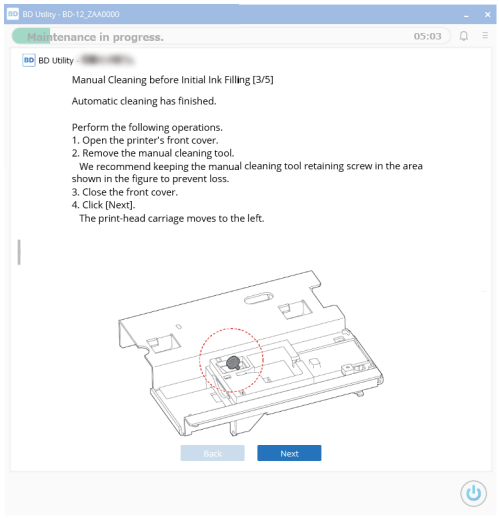
Place the manual cleaning tool fixing screw in the position shown in the figure to store it safely.



(3) **Close the front cover.**

(4) **Click [Next].**

The print-head carriage moves to the left.



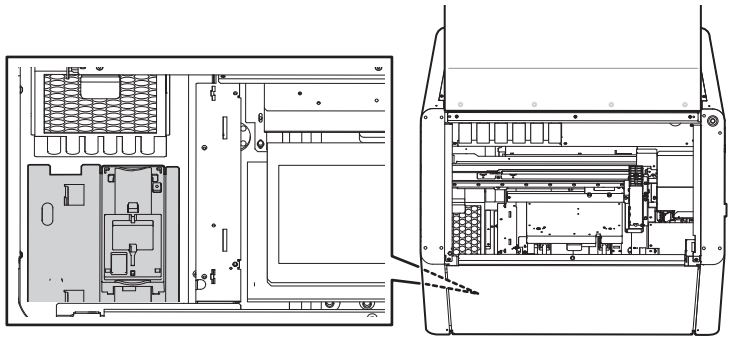
8. Clean the wiper, scraper, and cap top.

(1) **Open the front cover.**

(2) **Remove the cleaning stick from the manual cleaning tool.**

MEMO

- Use the removed cleaning stick to clean the wiper, scraper, and cap top.
- It is recommended that you store the manual cleaning tool in front of the deodorizer.



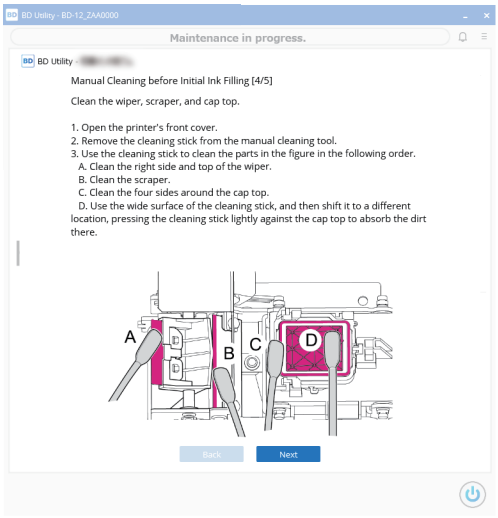
(3) **Clean the left, right, and top of the wiper in that order. (Figure A)**

(4) **Clean the scraper. (Figure B)**

(5) **Clean the four sides around the cap top. (Figure C)**

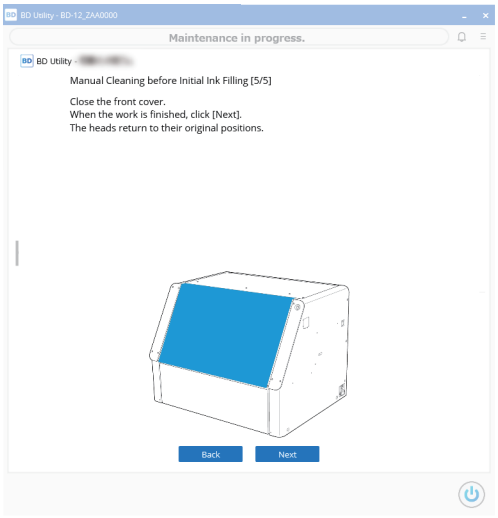
(6) **Use the wide surface of the cleaning stick, and then shift it to a different location, pressing the cleaning stick lightly against the cap top to absorb the dirt there. (Figure D)**

(7) **Click [Next].**

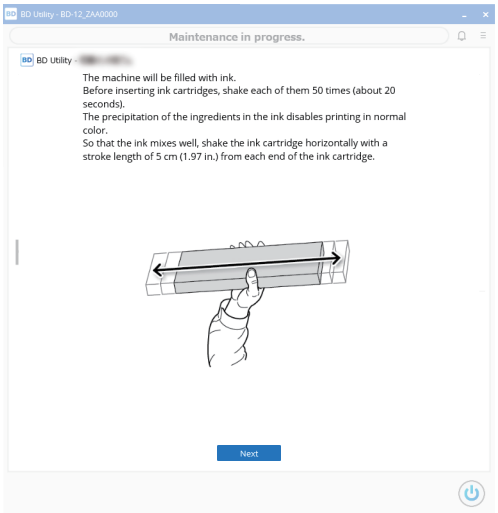


9. **Close the front cover, and then click [Next].**

The print-head carriage will return to its original position.



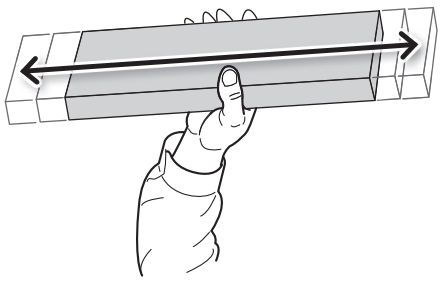
10. **Shake the ink, and then click [Next].**



IMPORTANT

Before inserting ink cartridges, shake each of them 50 times (about 20 seconds).

The precipitation of the ingredients in the ink disables printing in normal color. So that the ink mixes well, shake the ink cartridge horizontally with a stroke length of around 5 cm (1.97 in.) from each end of the ink cartridge.



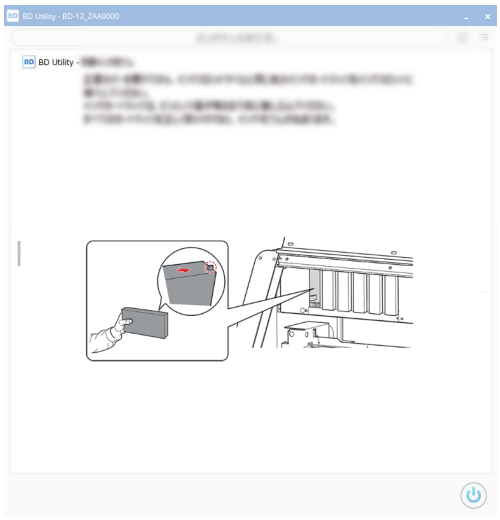
11. **Insert the ink cartridge in the ink slot.**

(1) **Open the front cover.**

(2) **Insert the ink cartridge with the same color as the ink slot label in the ink slot.**

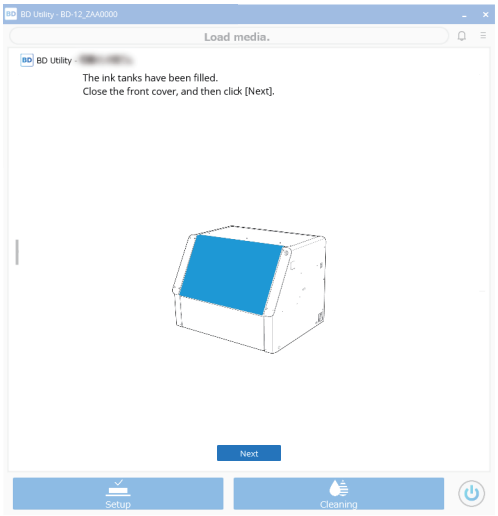
Insert the ink cartridge all the way until a beep is heard.

After all the ink cartridges have been inserted correctly, ink filling begins.



12. **When [The ink tanks have been filled.] appears, ink filling is complete.**

Close the front cover, and then click [**Next**].



The [**Initial Adjustment**] window appears.

Next, we will perform a nozzle drop-out test.

P. 35 Nozzle Drop-out Test

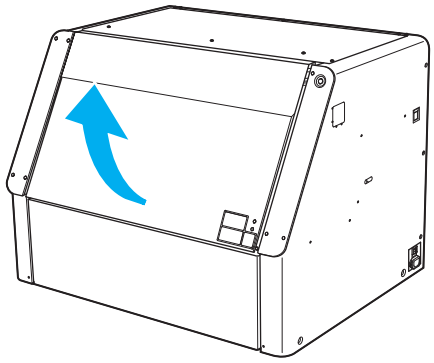
Step 3: Nozzle Drop-out Test

Loading the Nozzle Drop-out Test Paper

Perform a nozzle drop-out test using the included nozzle drop-out test paper.

Procedure

1. Open the front cover.



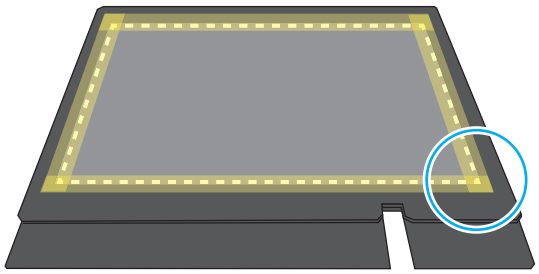
2. Load the included nozzle drop-out test paper.

Place the nozzle drop-out test paper so that it lines up with the bottom right corner of the white frame (BD-8) or the guide line frame (BD-12), and then fix it in place using tape or some other implement.

IMPORTANT

For details on the types of nozzle drop-out test paper used and ways to fix the paper in place, refer to the user's manual.

BD-12/8 User's Manual > Basic Handling Methods > Basic Information > Introduction > Nozzle Drop-out Test

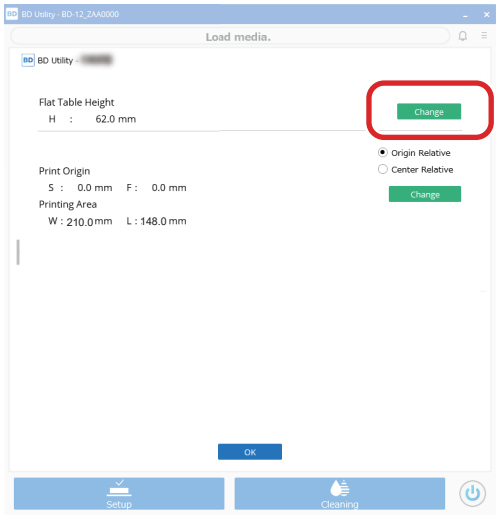


Setting the Height of the Flat Table

Set the flat table to a position suitable for printing.

Procedure

1. Click [Change] under [Flat Table Height].



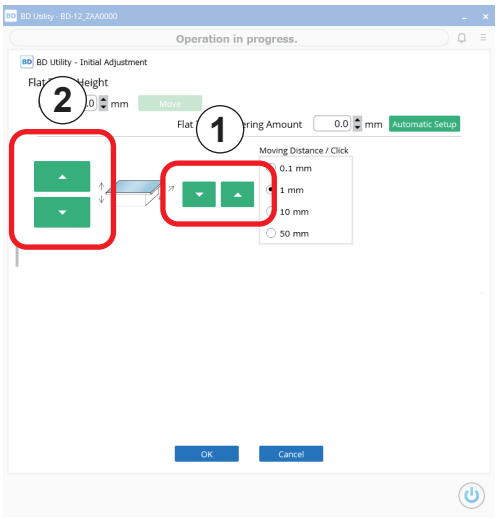
2. Move the flat table as close as possible to the head gap sensor.

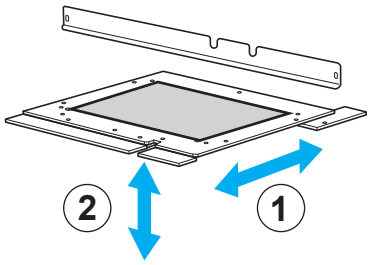
Move the head gap sensor as close as possible to the print surface beforehand to reduce the time required for automatic height setting.

- Click ①  or  on the right side of the window to move the flat table forward or back.
- Click ②  or  on the left side of the window to move the flat table up or down.

MEMO

- You can select 0.1 mm (0.004 in.), 1 mm (0.04 in.), 10 mm (0.39 in.), or 50 mm (1.97 in.) as the single-click moving distance.
- If the height position is unclear, open the front cover and make the adjustments from a close distance.

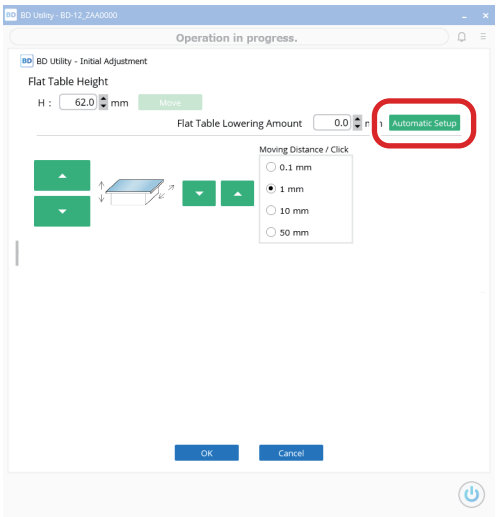




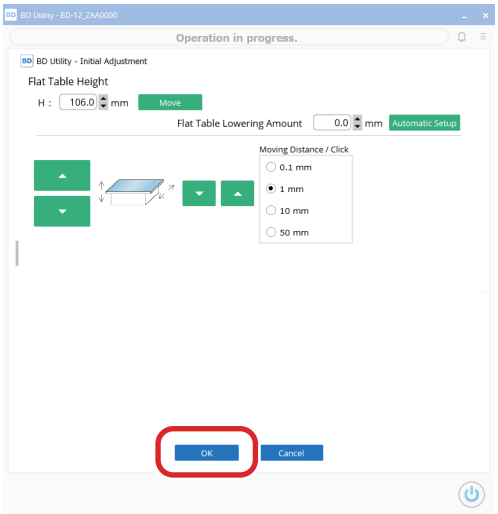
3. **Click [Automatic Setup].**

Gradually raise the height of the flat table in small increments from the position set in (1) until it comes into contact with the head gap sensor.

The height of the table will be set automatically to the print surface of the object about 1 mm (0.04 in.) away from the print head's ink emission surface.



4. **When the height of the flat table is set, click [OK].**



This ends the flat table height setup procedure.

Next, we will set the [**Print Origin**] and [**Printing Area**].

P. 39 Setting the Print Origin

Setting the Print Origin

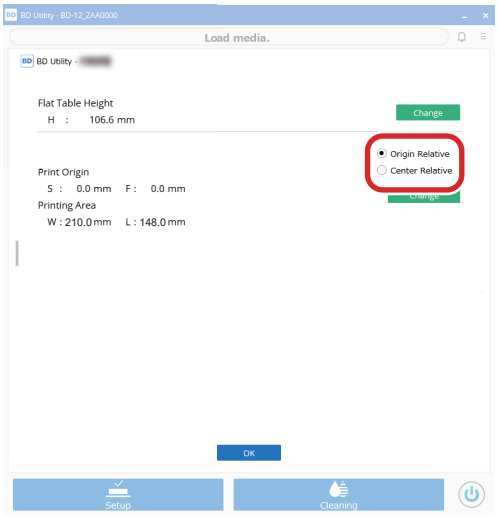
Procedure

1. **Select [Origin Relative].**

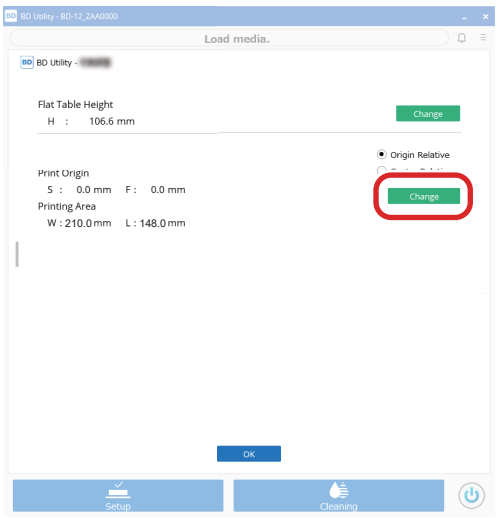
Set the point that will serve as the base printing position. This section describes the procedure used when using [**Origin Relative**].

MEMO

- [**Origin Relative**]: Sets the lower-right corner of the printing area as the base printing position.
- [**Center Relative**]: Sets the center of the printing area as the base printing position.



2. **Click [Change] next to [Print Origin] and [Printing Area].**



3. **Set the print origin.**

Move the origin so the test pattern is printed on the nozzle drop-out test paper.

MEMO

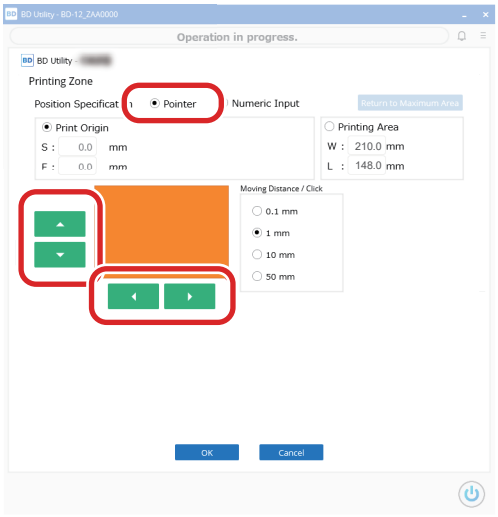
You do not need to set the printing area for the nozzle drop-out test.

The upper-left corner of this area is automatically set to the maximum position.

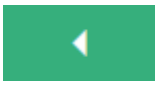
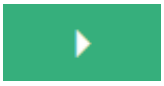
(1) **Select [Pointer].**

(2) **Use**  **to set the print origin position.**

The print origin is set to the position the print-head carriage pointer is pointing to.



MEMO

Use  to move the flat table, and then use   to move the print-head carriage.

(3) **Click [OK].**

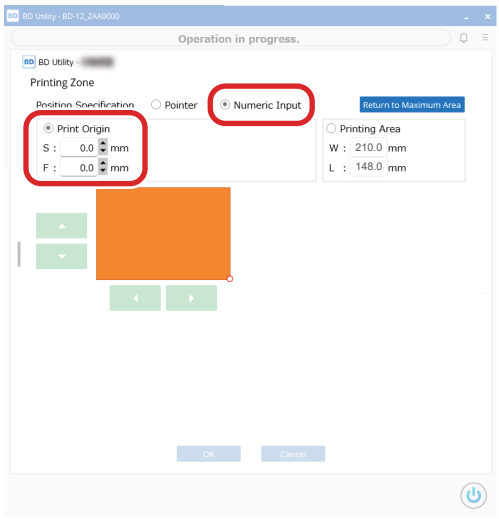
You can also set the print origin using **[Numeric Input]**.

(1) **Select [Numeric Input].**

(2) **Enter any value into the [S] and [F] fields to set the print origin position.**

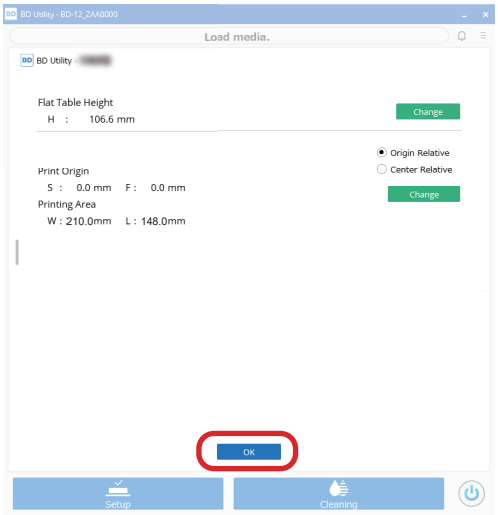
MEMO

[S] refers to the scan (left-right) direction, while **[F]** refers to the feed (forward-back) direction.



(3) **Click [OK].**

4. **Click [OK].**



This completes the settings for print origin and printing area. Next, we will perform a nozzle drop-out test.

P. 42 Nozzle Drop-out Test

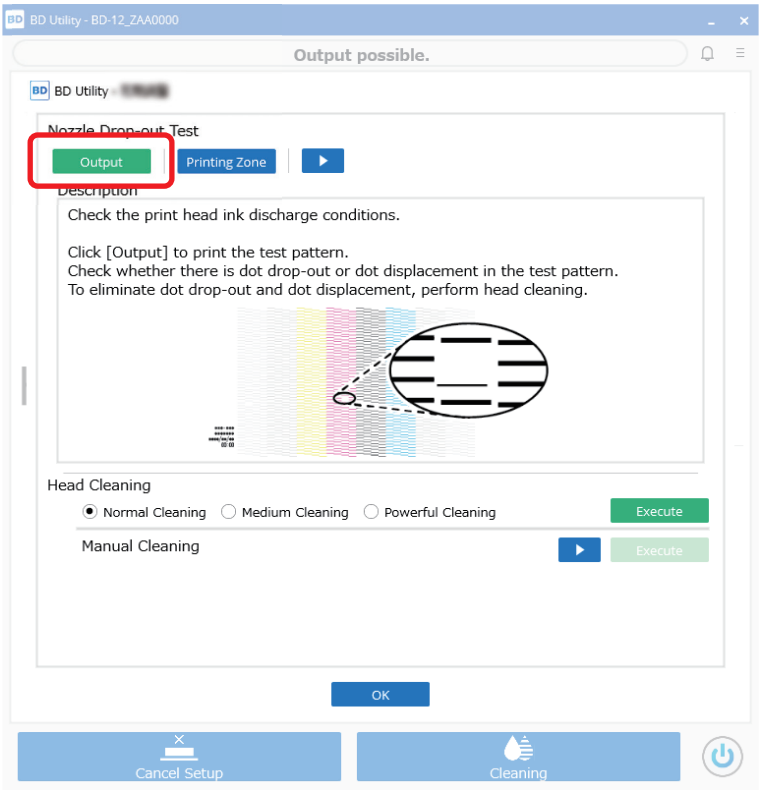
Nozzle Drop-out Test

Perform a nozzle drop-out test to ensure no dot drop-out or dot displacement occurs. If dot drop-out or dot displacement occurs, clean the print heads.

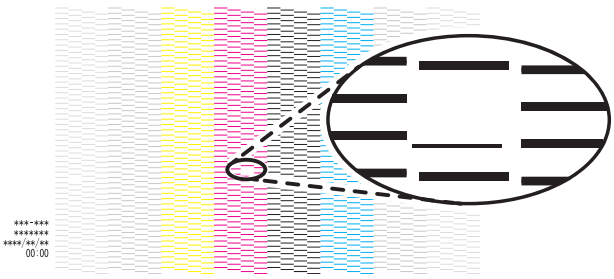
Procedure

1. **Click [Output] under [Nozzle Drop-out Test].**

Printing of the test pattern starts.



2. **Check whether there is dot drop-out or dot displacement in the test pattern.**



Missing blocks indicate dot drop-out. Collapsed or inclined blocks indicate dot displacement.

- If there is no dot drop-out or dot displacement, click **[OK]**.
- If dot drop-out or dot displacement is present, perform cleaning.

P. 45 Fixing Dot Drop-out and Dot Displacement

3. **Click [OK].**

Step 4: Adjust Pointer Position

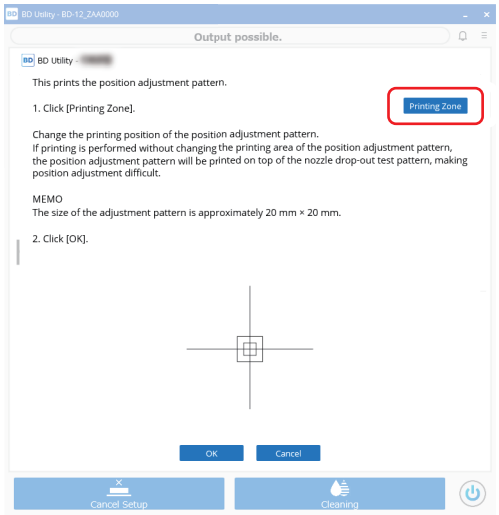
Procedure

1. Click the [Printing Zone] button.

Change the printing position of the position adjustment pattern.

If printing is performed without changing the printing area of the position adjustment pattern, the position adjustment pattern will be printed on top of the nozzle drop-out test pattern, making position adjustment difficult.

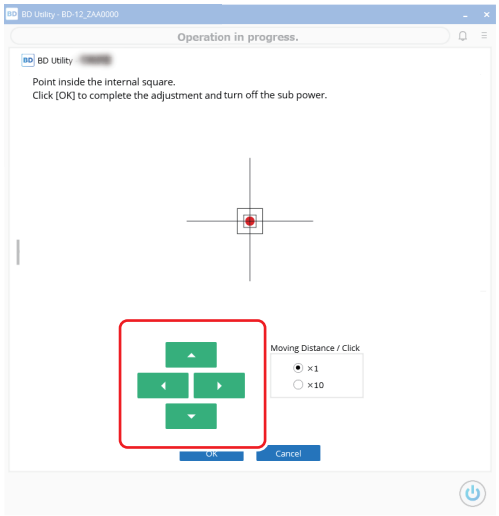
> **MEMO**
>
> The size of the adjustment pattern is approximately 20 mm × 20 mm (0.79 in. × 0.79 in.).

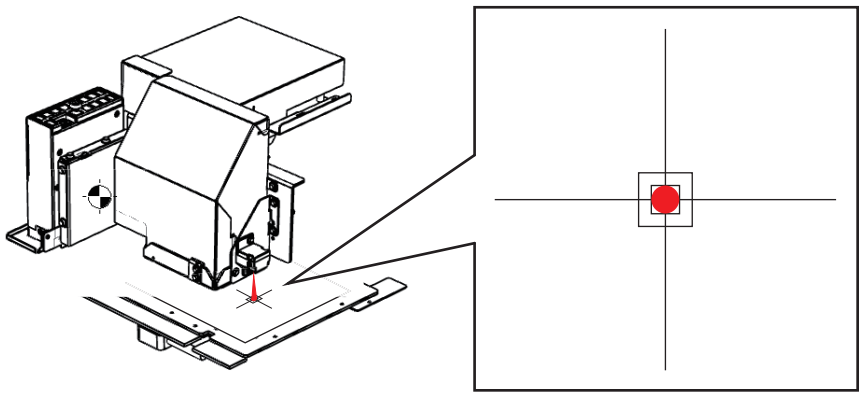


After changing the printing area of the position adjustment pattern, click **[OK]**.

The position adjustment pattern is printed.

2. Use  to center the pointer in the middle of the pattern.

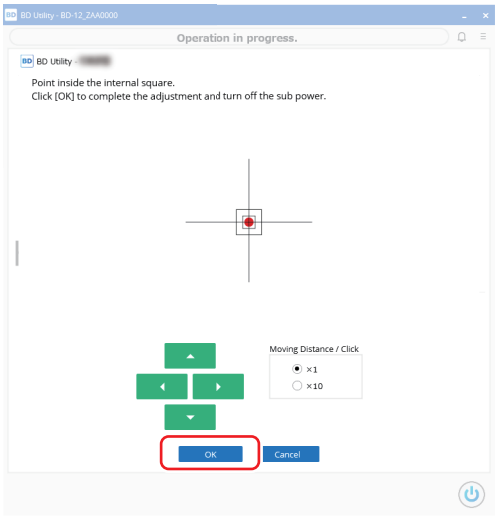




MEMO

Use ▲ ▼ to move the flat table, and then use ◀ ▶ to move the print-head carriage.

3. **Click [OK].**



After pointer settings are complete, the sub power switches off automatically, and Utility will display the home screen.

This completes the initial printer settings of the printer. For information on printer handling, refer to the user's manual.

https://downloadcenter.rolanddg.com/BD-8

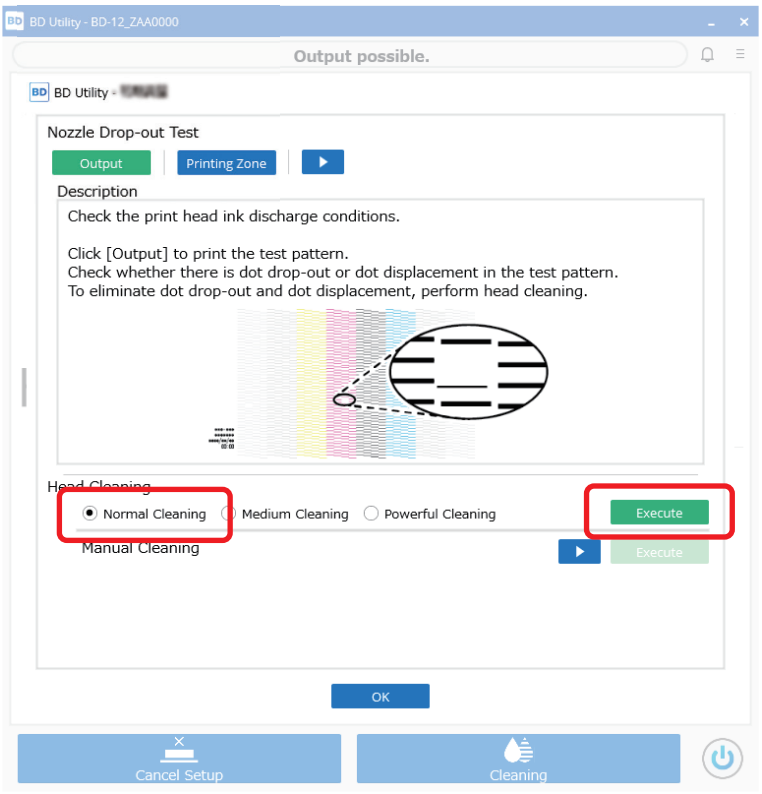
Fixing Dot Drop-out and Dot Displacement

Clean the print heads to improve ink discharge conditions such as dot drop-out and dot displacement.

Normal Cleaning

Procedure

1. **Select [Normal Cleaning] under [Head Cleaning], and then click [Execute].**
   Normal cleaning will start.

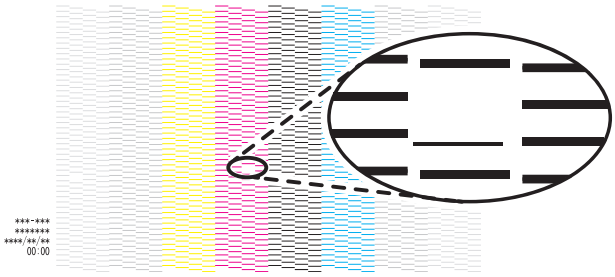


2. **Click [Output] under [Nozzle Drop-out Test].**
   The nozzle drop-out test will start.

> **MEMO**
>
> To prevent overlapping with the previous test pattern, it is recommended to change the nozzle drop-out test paper with a different piece of media or use [**Printing Zone**] to change the printing position.
> For details on changing the printing position, see Step 3 in Setting the Print Origin(P. 39).

3. **When printing is complete, open the front cover.**

4. **Check whether there is dot drop-out or dot displacement in the test pattern.**
   Missing blocks indicate dot drop-out. Collapsed or inclined blocks indicate dot displacement.



MEMO

- If there is no dot drop-out or dot displacement, click [**OK**].
- If the problem persists, try performing normal cleaning again.
- If problems such as dot drop-out and dot displacement persist even after you have performed normal cleaning two or three times, perform medium cleaning.

P. 47 Medium Cleaning

Medium Cleaning

When problems such as dot drop-out and dot displacement are not resolved by normal cleaning, perform the more forceful [**Medium Cleaning**] to remove clogging from the print heads.

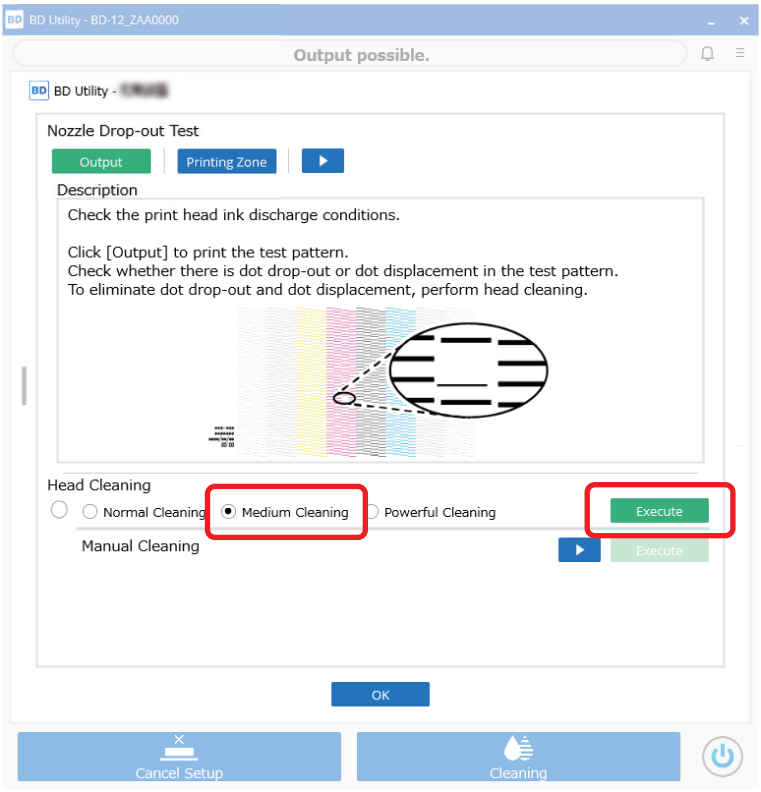
MEMO

Medium cleaning consumes more ink than normal cleaning. Because the print heads are prone to damage if cleaned too frequently, do not perform cleaning more than necessary.

Procedure

1. **Select [Medium Cleaning] under [Head Cleaning], and then click [Execute].**

   Medium cleaning starts.



2. **Click [Output] under [Nozzle Drop-out Test].**

   The nozzle drop-out test will start.

   MEMO

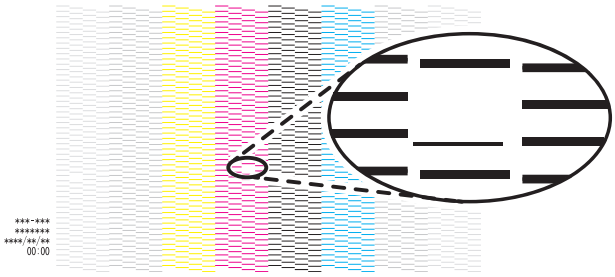
   To prevent overlapping with the previous test pattern, it is recommended to change the nozzle drop-out test paper with a different piece of media or use [**Printing Zone**] to change the printing position.

   For details on changing the printing position, see Step 3 in Setting the Print Origin(P. 39).

3. **When printing is complete, open the front cover.**

4. **Check whether there is dot drop-out or dot displacement in the test pattern.**

   Missing blocks indicate dot drop-out. Collapsed or inclined blocks indicate dot displacement.



MEMO

- If there is no dot drop-out or dot displacement, click [**OK**].
- If the problem persists, try performing medium cleaning again.
- If problems such as dot drop-out and dot displacement persist even after you have performed medium cleaning two or three times, perform the more forceful [**Powerful Cleaning**].

P. 49 Powerful Cleaning

Powerful Cleaning

When problems such as dot drop-out and dot displacement are not resolved by medium cleaning, perform the more forceful [**Powerful Cleaning**] to remove clogging from the print heads.

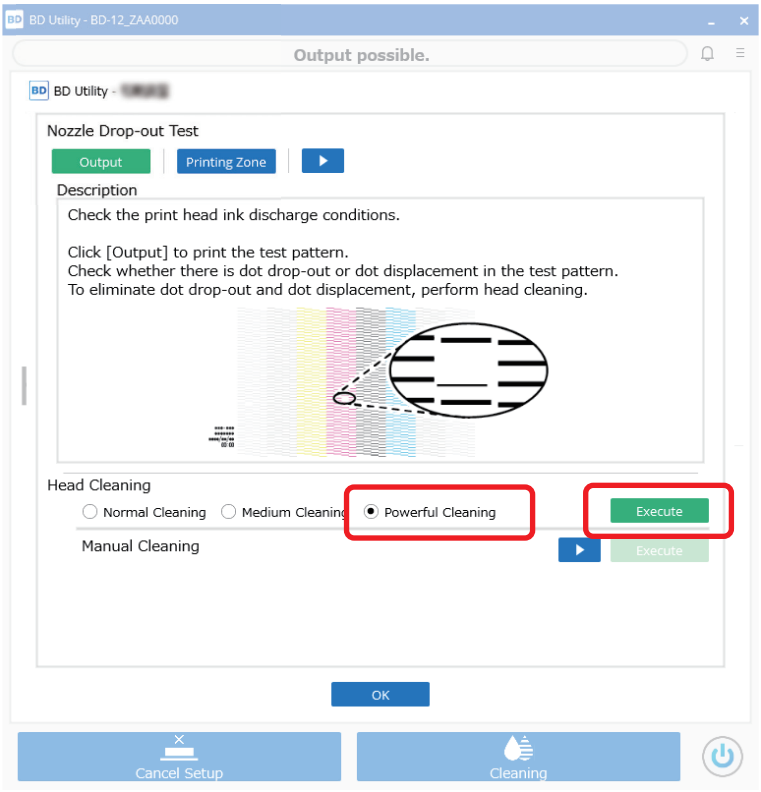
MEMO

Powerful cleaning consumes more ink than medium cleaning. Because the print heads are prone to damage if cleaned too frequently, do not perform cleaning more than necessary.

Procedure

1. **Select [Powerful Cleaning] under [Head Cleaning], and then click [Execute].**

   Powerful cleaning will start.



2. **Click [Output] under [Nozzle Drop-out Test].**

   The nozzle drop-out test will start.

   MEMO

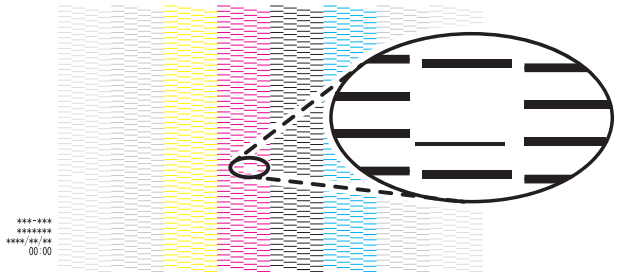
   To prevent overlapping with the previous test pattern, it is recommended to change the nozzle drop-out test paper with a different piece of media or use [**Printing Zone**] to change the printing position.

   For details on changing the printing position, see Step 3 in Setting the Print Origin(P. 39).

3. **When printing is complete, open the front cover.**

4. **Check whether there is dot drop-out or dot displacement in the test pattern.**

   Missing blocks indicate dot drop-out. Collapsed or inclined blocks indicate dot displacement.



MEMO

- If there is no dot drop-out or dot displacement, click [**OK**].
- If the problem persists, try performing powerful cleaning again.
- If problems such as dot drop-out and dot displacement persist even after you have performed powerful cleaning two or three times, contact your authorized dealer.


Roland