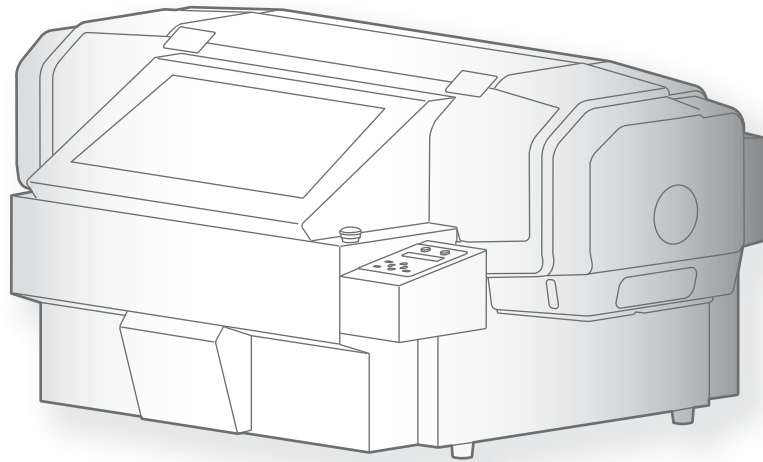


# VJ-426UF

## Operation Manual

Operations and Maintenance Methods



- 
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  - Every care has been taken in writing the contents of this manual, but please contact MUTOH or the dealer you purchased the product from if you find any unclear, erroneous or otherwise unsatisfactory content in the manual.
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## For Users in Europe



The CE marking is a mandatory European marking for certain product groups to indicate conformity with the essential health and safety requirements set out in European Directives.

By affixing the CE marking, the manufacturer, his authorized representative, or the person placing the product on the market or putting it into service ensures that the item meets all the essential requirements of all applicable EU directives and that the applicable conformity assessment procedures have been applied.

## For Users in the United States

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This system (including the housing and safety device) is a Class 2 laser product.

Laser specifications of this system (including the housing)

Wavelength: 655 nm, maximum output: 1mW or less, pulse duration: 3.0 $\mu$ s

Complies with IEC 60825-1 Edition 2.0 (2007-03).

Complies with FDA performance standards for laser products except for deviations pursuant to Laser notice No.50 dated June 24, 2007.

### **CAUTION**

Use of controls or adjustments or performance of procedures other than those specified herein may result in radiation exposure.

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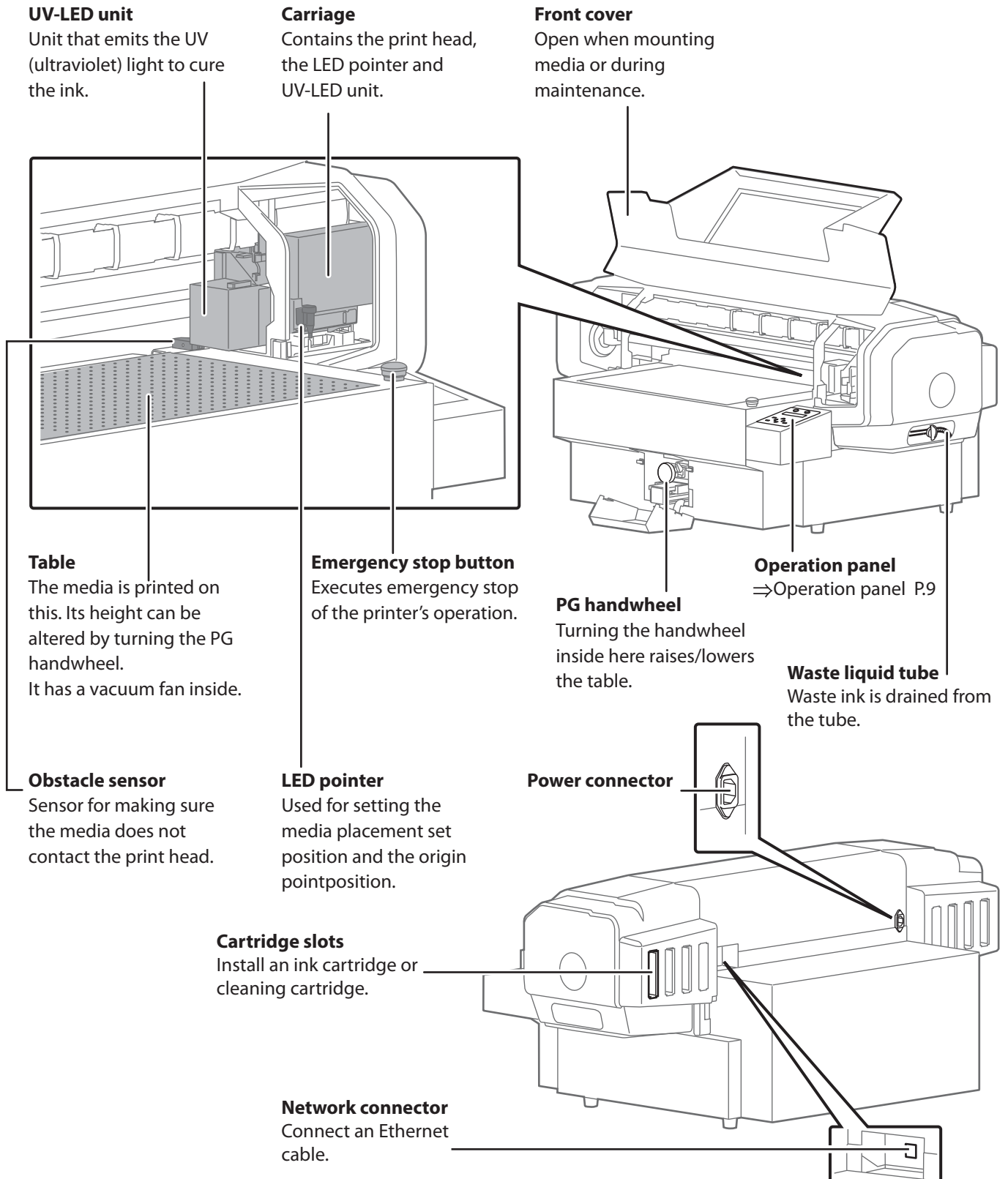
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# Introduction

## Name of each part

### Printer's main body






## Operation panel

### Power button

- Press it to turn the power on. Lights steady in blue when the power is on.
- Press it again to turn the power off. The button turns off while in power off.
- The button flashes while receiving data or in sleep mode.

[Reference]

The  symbol means “standby”. Even when the power button is not turned on, the printer consumes a tiny amount of power so long as the power cable is connected. This state is referred to as the power being “off” in this Manual.

### [Option] indicators

Not functional. These indicators do not light.

### [Media Set] indicator

Lights steady green when a media has been set in place and the printer is ready to print.

### [Low speed] indicator

Lights steady green, except when [Low speed] is turned Off.

### [Menu] key

Press this key to access to or exit the menu.

### [Pause] / [Cancel] key

- Press this key to pause printing.
- Long press this key for more than 2 seconds to cancel the print job and delete the data received.

### When setting a value:

Cancels a change of a setting value.

### Error indicator

Lights up in orange when an error has occurred or a cover is open.  
Flashes when the ink is low.

### Display

Displays the printer status, setting menu, errors and so on.

### [Cleaning Mode] indicators

Light steady green to indicate the head cleaning mode.

### [Enter] key

When you have set a media in place, pressing and holding this down for 2 seconds or longer will run a media set check.

### When setting a value:

- Press this to go to the menu item you select.
- Press this to confirm a set value.

### [+] / [Set Media] key

Press this key after loading media to put the printer into ready-to-print status.

### When setting a value:

- Press this to move to another menu item
- Press this to change a set value.

### [-] / [Remove Media] key

Press this key after printing to remove media from the table.

### When setting a value:

- Press this to move to another menu item
- Press this to change a set value.

### [<] / [Nozzle Check] key

Long press this key for more than 2 seconds to run a nozzle check.

### When setting a value:

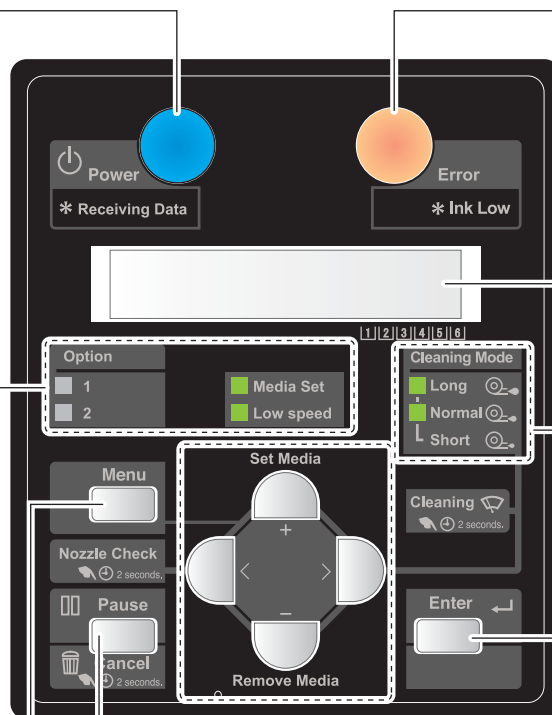
Press this to change a set value.

### [>] / [Cleaning Mode] key

- For changing the cleaning mode.
- Long press this key for more than 2 seconds to execute head cleaning.

### When setting a value:

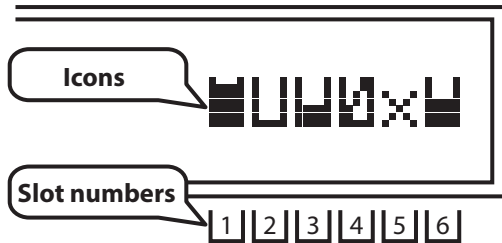
- Press this to move to a lower level of menu items.
- Press this to change a set value.



## Icon displays on operation panel

Icons to indicate the status of the ink or cartridges are displayed in the following situations:

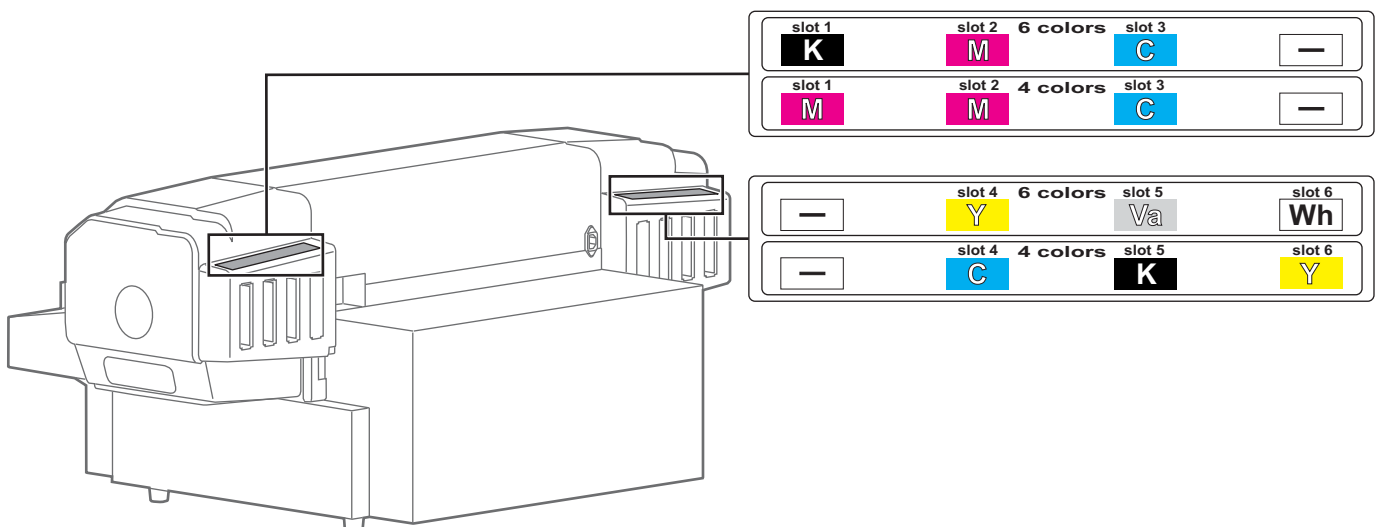
- When no menu is displayed
- When there is an ink or cartridge error



- There are printed slot numbers beneath the icons.
- In the display shown on the left, the slot 2 cartridge's ink is low, the slot 4 cartridge's ink has run out, and no cartridge has been inserted in slot 5.
- The following icons indicate the status of each slot:

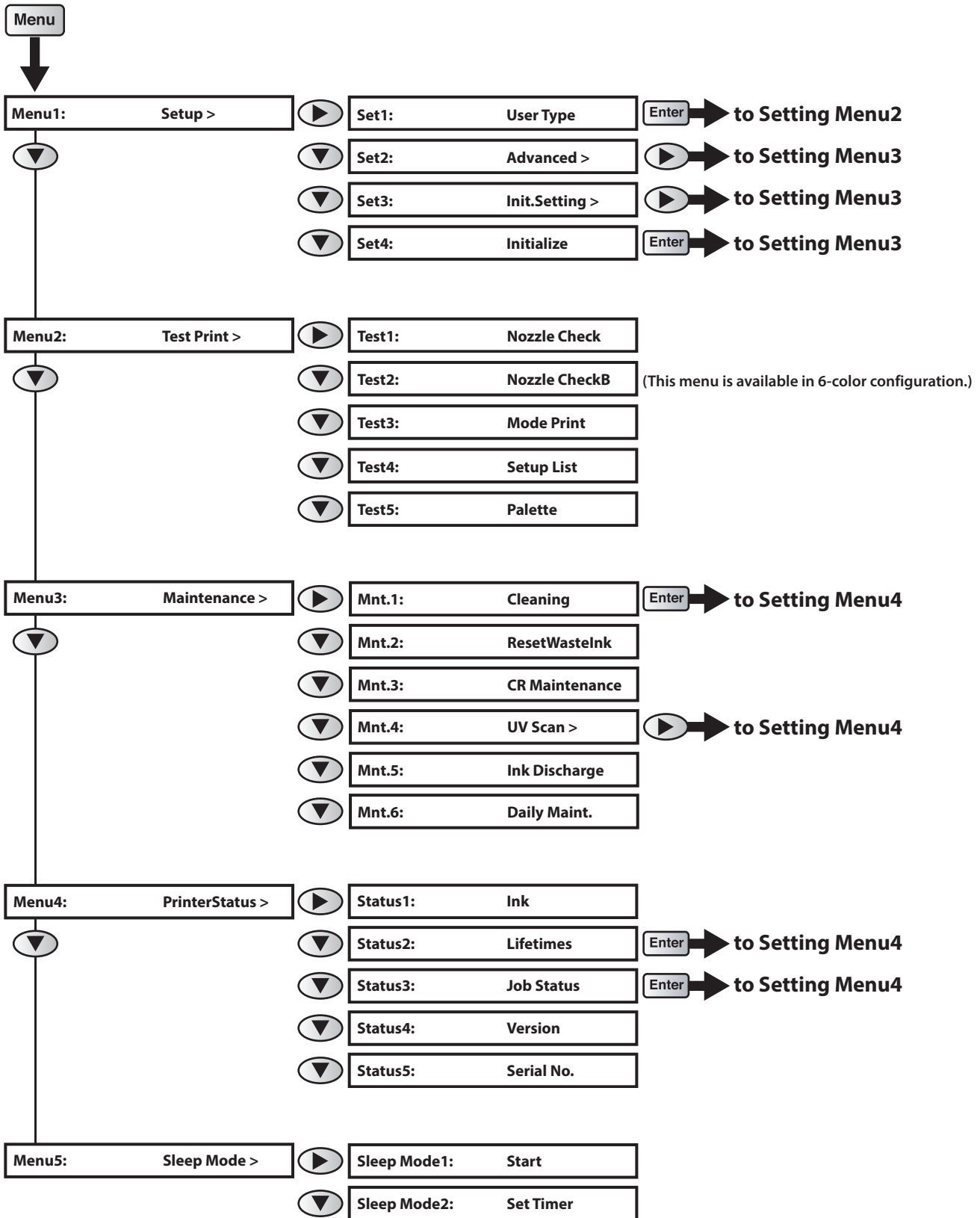
	Remaining ink amount : More than 80%, less than 100%		Remaining ink amount : Less than 20%
	Remaining ink amount : More than 60%, less than 80%		Ink Low
	Remaining ink amount : More than 40%, less than 60%		Ink End
	Remaining ink amount : More than 20%, less than 40%		No cartridge

The ink colors and slot locations for each color are shown below.

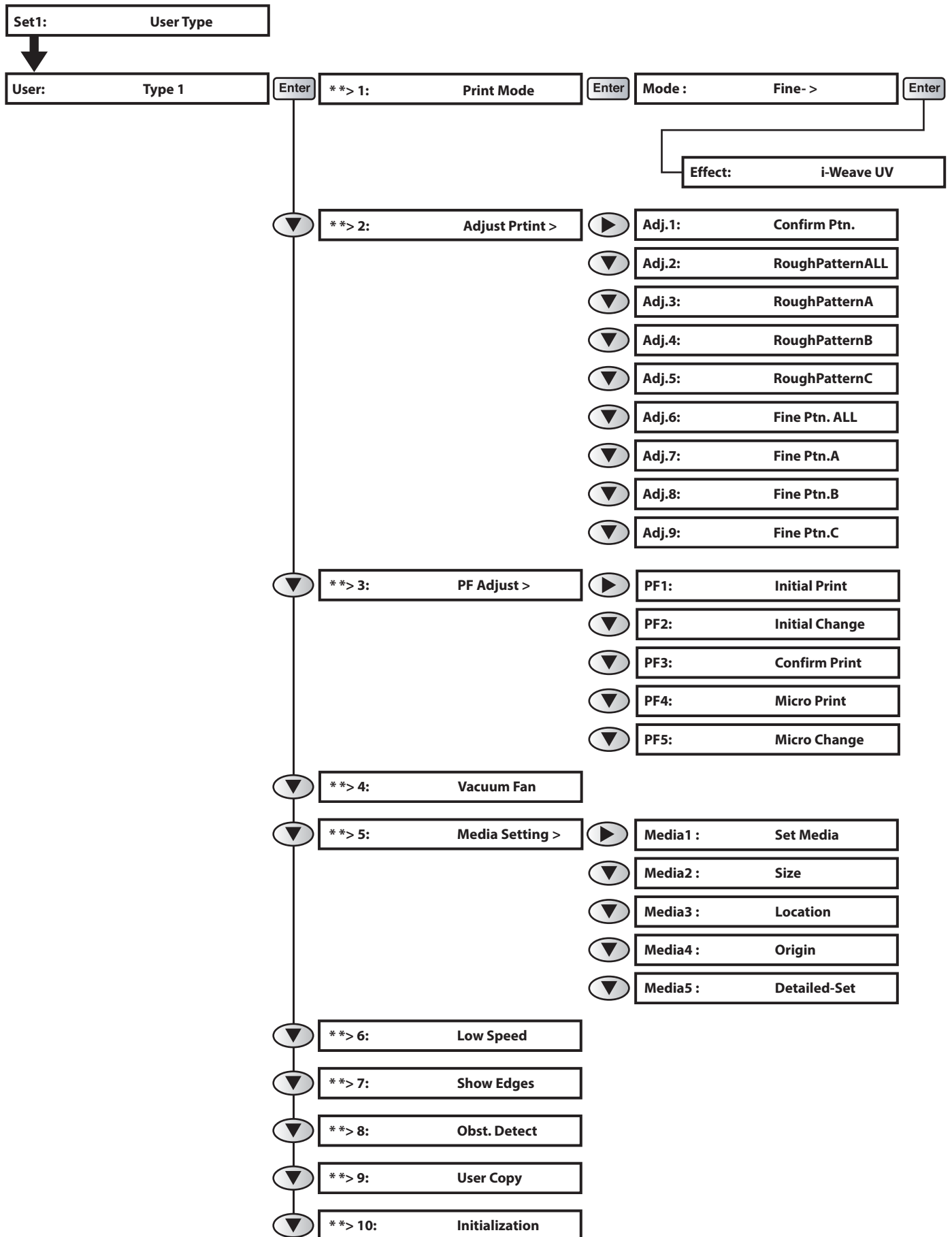


# Menu chart

## Setting menu 1

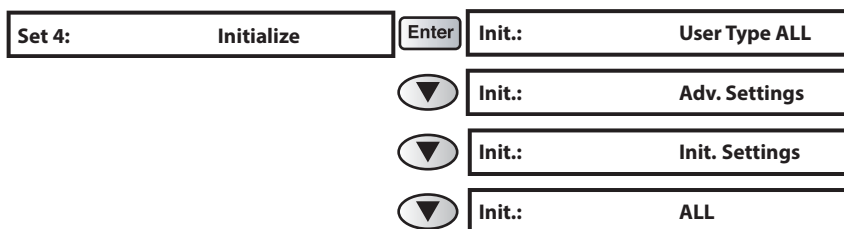
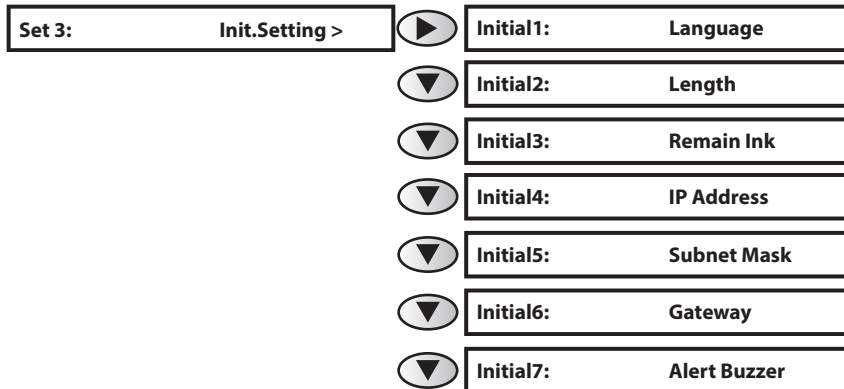
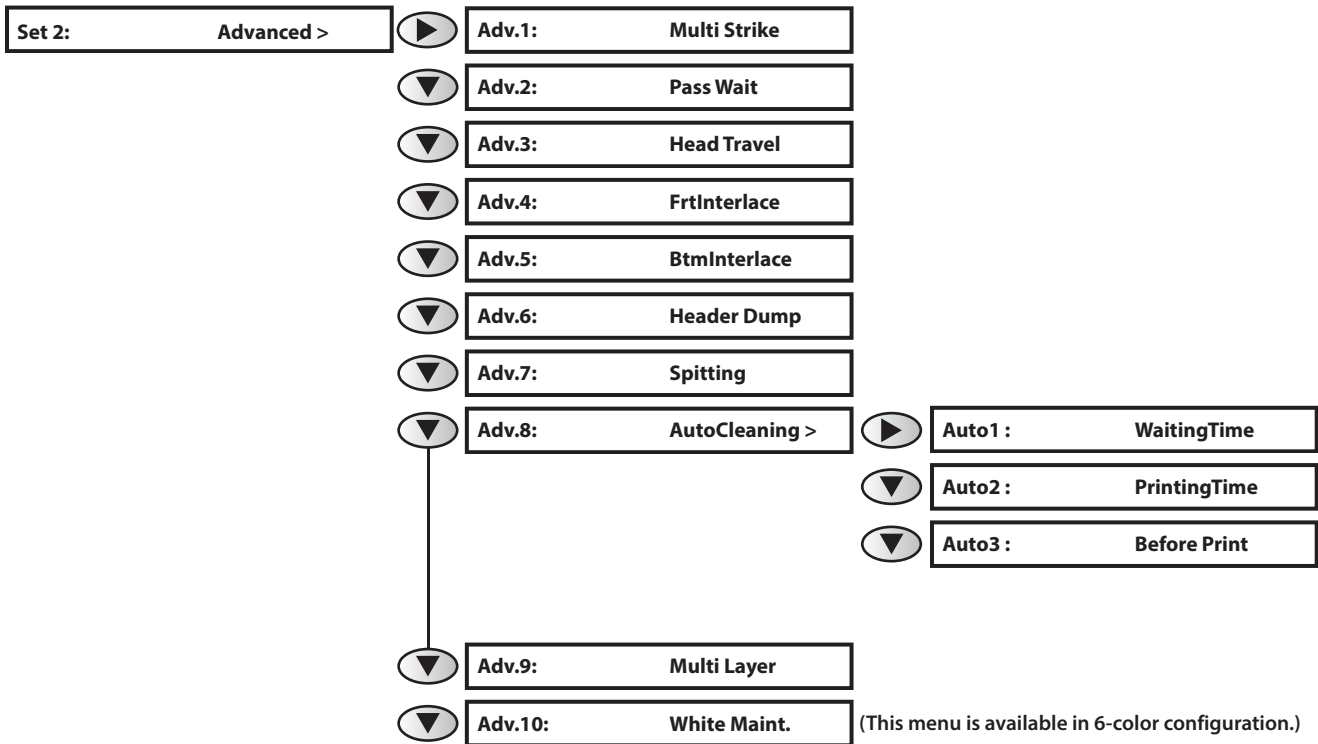


# Setting menu 2



## Setting menu 3

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## Setting menu 4

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<b>Mnt.1:</b>	<b>Cleaning</b>	<b>Enter</b>	<b>Time :</b>	<b>Short</b>
		▼	<b>Time :</b>	<b>Normal</b>
		▼	<b>Time :</b>	<b>Long</b>
		▼	<b>Time :</b>	<b>Little Charge</b>
		▼	<b>Time :</b>	<b>Initial Charge</b>

---

<b>Mnt.4:</b>	<b>UV Scan &gt;</b>	▶	<b>UV Scan1:</b>	<b>Start</b>
		▼	<b>UV Scan2:</b>	<b>Scans</b>
		▼	<b>UV Scan3:</b>	<b>Post Cure</b>

---

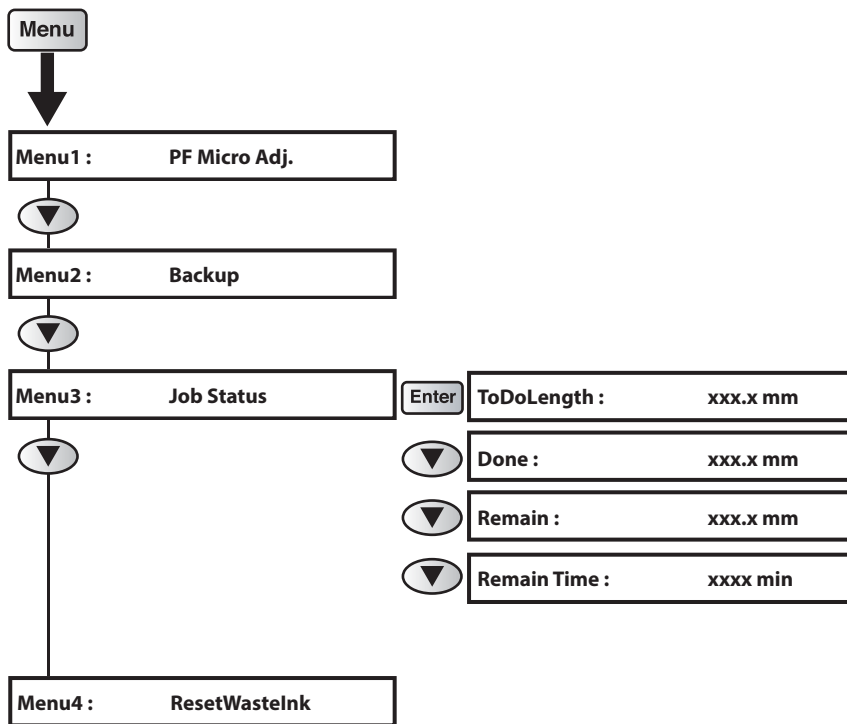
<b>Status 2:</b>	<b>Lifetimes</b>	<b>Enter</b>	<b>Head :</b>	<b>E*** F</b>
		▼	<b>Pump :</b>	<b>E*** F</b>
		▼	<b>CRMotor :</b>	<b>Change</b>
		▼	<b>PFMotor :</b>	<b>E*** F</b>
		▼	<b>CPump :</b>	<b>E*** F</b>
		▼	<b>UVLamp :</b>	<b>E*** F</b>
		▼	<b>WasteInkTank</b>	<b>E*** F</b>

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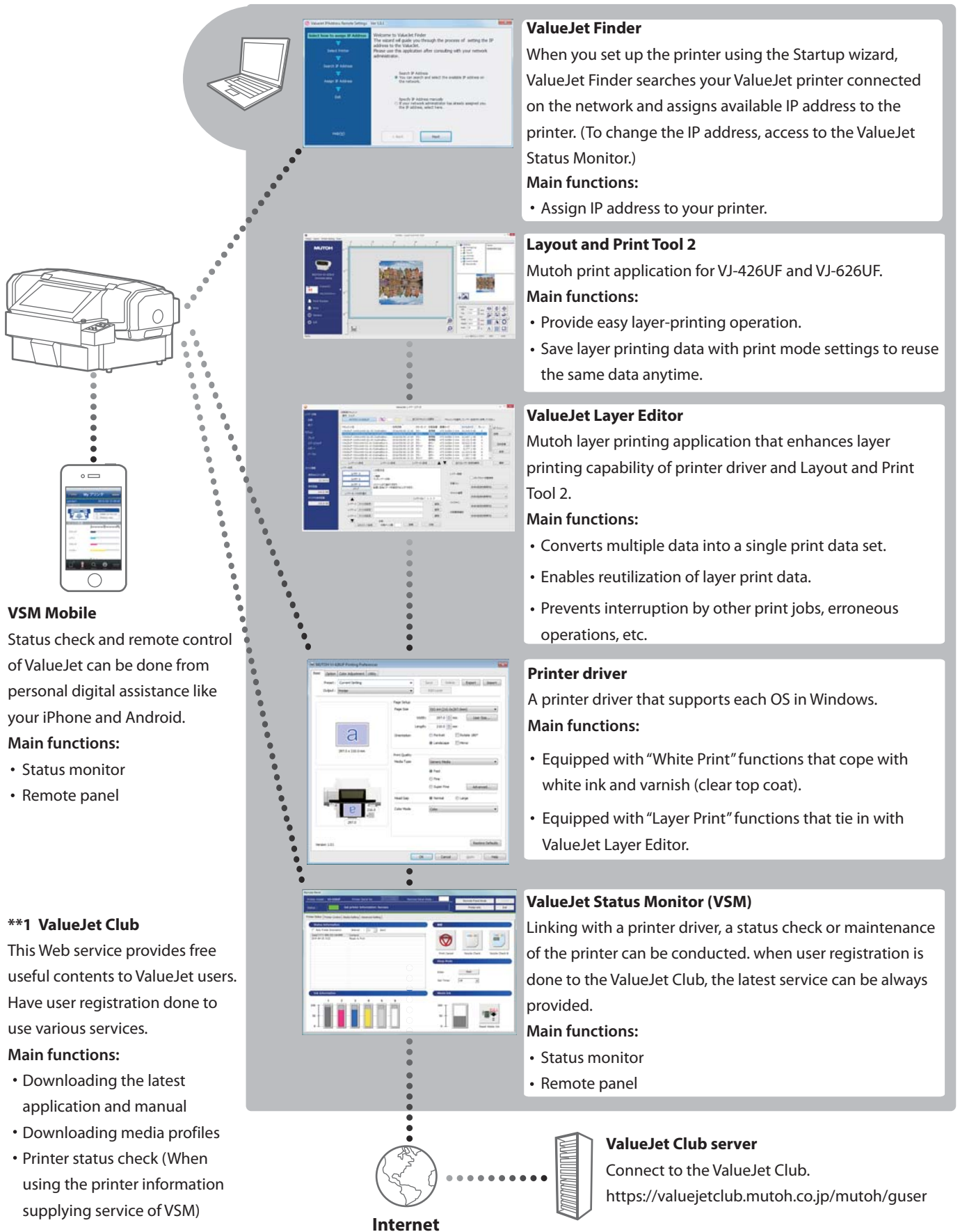
<b>Status 3:</b>	<b>Job Status</b>	<b>Enter</b>	<b>Job Status :</b>	<b>Completed</b>
		▼	<b>ToDoLength :</b>	<b>xxx.x m</b>
		▼	<b>Done :</b>	<b>xxx.x m</b>
		▼	<b>Remain:</b>	<b>xxx.xm</b>

## Menu during printing

---



# System configurations of this product



### VSM Mobile

Status check and remote control of ValueJet can be done from personal digital assistance like your iPhone and Android.

#### Main functions:

- Status monitor
- Remote panel

### \*\*1 ValueJet Club

This Web service provides free useful contents to ValueJet users. Have user registration done to use various services.

#### Main functions:

- Downloading the latest application and manual
- Downloading media profiles
- Printer status check (When using the printer information supplying service of VSM)

### ValueJet Finder

When you set up the printer using the Startup wizard, ValueJet Finder searches your ValueJet printer connected on the network and assigns available IP address to the printer. (To change the IP address, access to the ValueJet Status Monitor.)

#### Main functions:

- Assign IP address to your printer.

### Layout and Print Tool 2

Mutoh print application for VJ-426UF and VJ-626UF.

#### Main functions:

- Provide easy layer-printing operation.
- Save layer printing data with print mode settings to reuse the same data anytime.

### ValueJet Layer Editor

Mutoh layer printing application that enhances layer printing capability of printer driver and Layout and Print Tool 2.

#### Main functions:

- Converts multiple data into a single print data set.
- Enables reutilization of layer print data.
- Prevents interruption by other print jobs, erroneous operations, etc.

### Printer driver

A printer driver that supports each OS in Windows.

#### Main functions:

- Equipped with "White Print" functions that cope with white ink and varnish (clear top coat).
- Equipped with "Layer Print" functions that tie in with ValueJet Layer Editor.

### ValueJet Status Monitor (VSM)

Linking with a printer driver, a status check or maintenance of the printer can be conducted. when user registration is done to the ValueJet Club, the latest service can be always provided.

#### Main functions:

- Status monitor
- Remote panel

### ValueJet Club server

Connect to the ValueJet Club.

<https://valuejetclub.mutoh.co.jp/mutoh/guser>

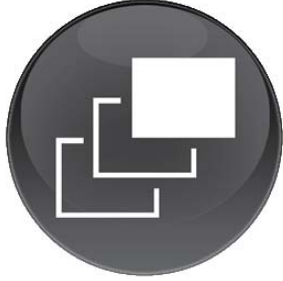

Internet



## Appropriate Use of Layout and Print Tool 2 and ValueJet Layer Editor

The CDROM supplied with this printer contains two print application; Layout and Print Tool 2 and ValueJet Layer Editor. To perform layer printing on VJ-426UF, please use Layout and Print Tool 2.

Each print application has following features.

	Layout and Print Tool 2	ValueJet Layer Editor
		
Functions	<p>Enables to print more than one image layer by layer on the same media. Users can edit layer printing layout for up to 15 layers and save them.</p>	<ul style="list-style-type: none"> <li>• Receives print data from the printer driver. Users can assign the received data to each layer to perform layer printing.</li> <li>• To create print data file, use Layout and Print Tool 2 or other graphic applications.</li> </ul>
Intended use	<ul style="list-style-type: none"> <li>• Suitable for small print production or adding text to an image.</li> <li>• Recommended to use ValueJet Layer Editor for large print production.</li> </ul>	<p>Saves print data with format converted for the printer to print soon after sending from ValueJet Layer Editor and efficiently reprint the same data.</p>
Image printing (PNG/TIFF)	✓	—
Multi layer printing (Print layer by layer on the same media)	✓	✓
Single layer printing (Print 2 or 3 layers in one pass)	—	✓
Change printer settings on output data	—	✓ (Change carriage speed, vacuum fan and more)

### Note

For more details of layer printing and supported file format, see the Layout and Print Tool 2 Operation Manual and ValueJet Layer Editor Operation Manual.

## Displaying the Printing Preferences screen of printer driver

### [1] Windows 10

Click [Start], [All Apps], [Windows System], then [Control Panel].  
In the screen that appears, click [Devices and Printers].

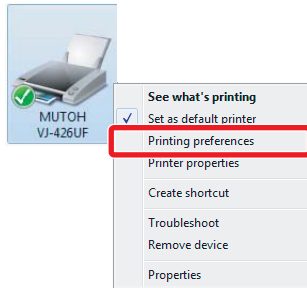
### Windows 8 / Windows 8.1

Display the charm bar on Desktop, and click [Settings]. Click [Control Panel] - [View devices and printers].

### Windows 7

Click [Start] - [Devices and Printers].

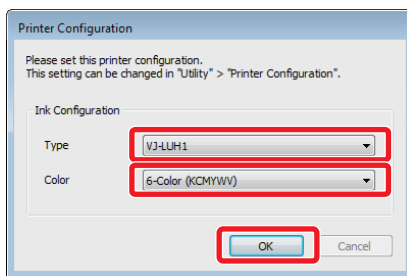
### [2]



Right click the "MUTOH VJ-426UF" icon and click [Printing preferences].

- The "Printer Configuration" dialog box opens only at the first time.
- The Printing Preferences screen of printer driver opens from the second time.

### [3]



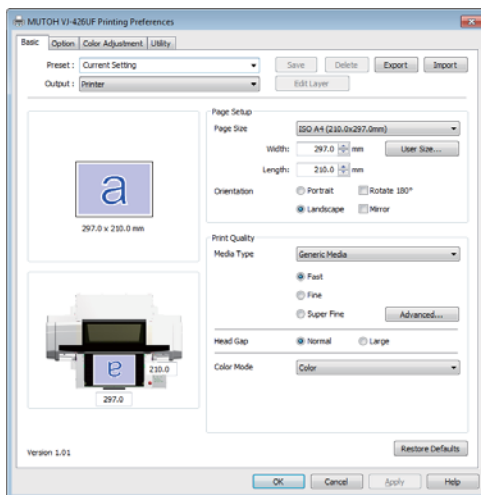
Select the ink type and the ink configuration settings and click [OK].

- After clicking, the Printing Preferences screen of printer driver opens.



#### Note

If you use the Windows printer driver, make sure to select the ink type and the ink configuration settings of your printer.



Printing Preferences screen of printer driver

# Launching/Displaying/Exiting ValueJet Status Monitor (VSM)

## Launching VSM



### Windows 8 / Windows 8.1

In the [Start] screen, click [Desktop].  
Double click the VSM icon on the Desktop.

### Windows 10 / Windows 7

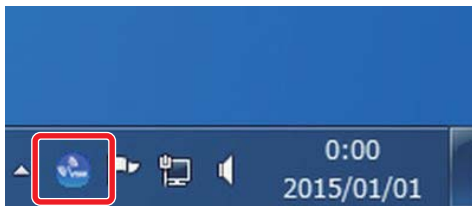
Double click the VSM icon on the Desktop.

### Note

Launching from the Start Menu of Windows

- Windows 8 / Windows 8.1  
Right click somewhere the [Start] screen tiles are not displayed to display the application bar, and click [All Apps].
- Windows 10 / Windows 7  
From the [Start] menu, click [All Programs] (or [All Apps]) - [MUTOH] - [ValueJet Status Monitor].

## Displaying VSM



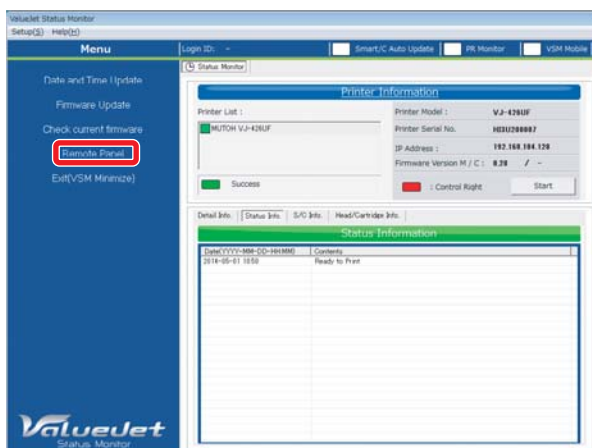
Double click the VSM icon in the task tray.

## Displaying remote panel

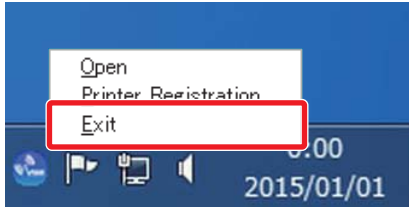
The remote panel is used to view this product's status or operate.

Click [Remote Panel].

- The remote panel opens.



## Exiting VSM



### Windows 8.1

Click the Down Arrow in the [Start] screen.  
Click [ValueJet Status Monitor].

Right click the VSM icon in the task tray, and click [Exit].



When using the printer, do not exit VSM.  
When closing the VSM window, click [Settings] - [Close].

## Launching ValueJet Finder

From the [Printer Registration] menu on the ValueJet Status Monitor, click “3. Search printer Assign/Change IP address”.



If you have used the old version of Startup wizard in your PC, ValueJet Finder has been already installed.  
In that case, uninstall the ValueJet Finder.

## Launching Layout and Print Tool 2

### Windows 8 / Window 8.1

Display the charm bar on the desktop, and then click [Search].

Enter “Layout and Print Tool 2”, and then click .

Click the “Layout and Print Tool 2” icon displayed in the search result.

### Windows 10 / Windows 7

From the [Start] menu, click [All Programs] (or [All Apps]) – [MUTOH] – [Layout and Print Tool 2] in order.

## Launching ValueJet Layer Editor

### Windows 8 / Window 8.1

Display the charm bar on the desktop, and then click [Search].

Enter “ValueJet Layer Editor”, and then click .

Click the “ValueJet Layer Editor” icon displayed in the search result.

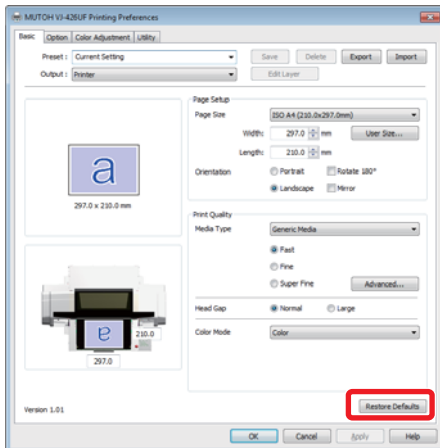
### Windows 10 / Windows 7

From the [Start] menu, click [All Programs] (or [All Apps]) – [MUTOH] – [ValueJet Layer Editor] in order.

## Displaying Help or Manual

### Printer driver

Display the Printing Preferences screen of printer driver, and click [Help].

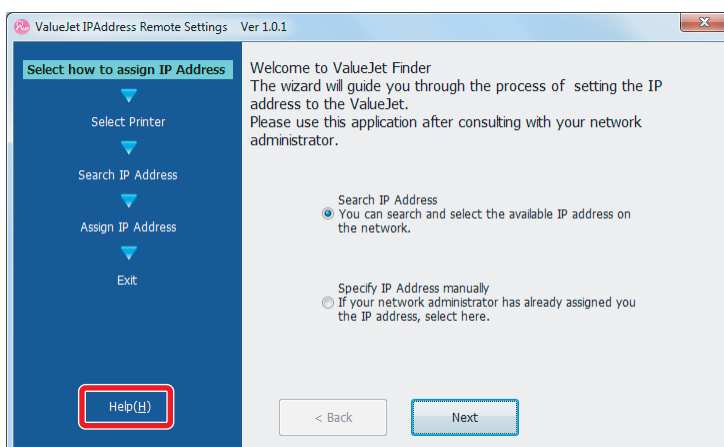


### Printer driver, ValueJet Status Monitor and ValueJet Layer Editor

- [1] Set the software CD ("Driver & Applications") that comes with the product to CD-ROM drive of your computer.
- [2] Display the contents of CD-ROM.
- [3] Open the [Manual] folder, and choose the applicable folder, then double-click on a PDF.

### ValueJet Finder

Launch ValueJet Finder, and click [Help].



## Requirements for usable media

Media that meet the requirements below can be used with this printer.

### Usable sizes

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Maximum width	483 mm
Maximum length	329 mm
Maximum thickness	70 mm
Weight	4 kg or less

#### Important!

**The minimum media width and length that are settable in the User Type for the printer are 30 mm x 30 mm. To print onto media with dimensions smaller than these, you should take precautions to prevent the table from being dirtied with ink.**

### Cautions for handling media

---

- Do not use media that is sensitive to heat.  
The heat given off by the UV rays could deform such media, or affect its image quality, or cause it to contact with the head.
- If printing onto a solid object that is liable to roll (such as a golf ball or ballpoint pen), use a jig or similar to stop it from rolling.
- If printing onto media that has level differences in it, note that adequate print results may not be obtained if there is a large distance between the lower-level printing surfaces and the print head.
- Do not use media that are liable to reflect the UV light.  
The reflective UV light can cure the ink on the print head.

## Precautions when using this product

### Do not turn the power off

---

Use the printer with its power turned permanently on. When you are not using the printer, always leave the power on and put the printer into the sleep mode. In the sleep mode, the printer will periodically circulate the ink inside the printer and carry out head cleaning automatically. If you do not put the printer into the sleep mode, the ink inside the printer could settle out and/or coagulate, causing poor image quality or printer failure.

### Avoid direct contact with uncured ink

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The curing time for Mutoh UV ink varies by surface properties of media you use. Particularly a low ink density area on a print takes longer time to be cured (approximately one hour).

When you check if your print is fully cured, be sure to wear protective gloves.

### Agitate the ink cartridges

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Before installing a new ink cartridge, invert the ink cartridge back and forth to agitate ink. Periodical ink agitation is also required when prompted on the operation panel.

Otherwise, the ink inside the cartridges settles or coagulates and may cause poor print quality or a malfunction.

### When opening and closing the front cover

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#### **WARNING**



**Do not open or close the front cover if you are not in a balanced posture.**

If you open or close it in an unbalanced posture, your hands or other body parts could get caught in it, possibly resulting in serious injury.

#### **CAUTION**

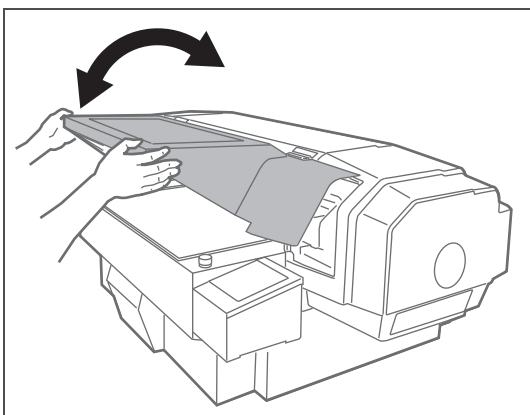


• **Always close the front cover fully.**

If you leave it part-open, it could close suddenly.

• **When closing the front cover, always use both hands and hold it by the portions specified.**

Do not place your fingers on the edges of the printer's opening portion, or on any parts around those edges. Your fingers could get caught and be injured.



Always hold the cover by the places shown in the picture, using both hands, and close it slowly.

## Please use this product periodically


---

It is recommended to use this product at least once a week. When left unused for a long time, the print head nozzles can get clogged causing damage to the printer.

## Conduct periodic maintenance

---

This product requires daily maintenance.

- Perform the Nozzle check before and after printing.  
If nozzle clog is found, conduct a head cleaning.
- Make sure to perform daily maintenance after you finish printing for the day.  
Failure to perform daily maintenance may affect print quality or result in damage to the printer.  
 ["Daily Maintenance" on page 95](#)
- Empty the waste ink tank when needed.
- Clean the interior of the printer once a month.

## Some parts need to be replaced periodically

---

In this product, following parts need to be replaced after a long-term use.

- Parts required to be replaced by users: Absorption material for the flushing box, Cleaning wiper
- Parts required to be replaced by service personnel: Various motors, Pumps, Print head, Head cap unit, UV lamp

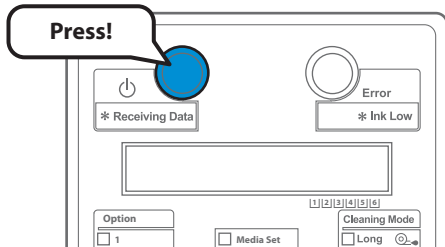


# Powering ON/OFF

## Turning the power ON

[1] Close the front cover.

[2]



Press the power button to turn the power ON.

- The blue light turns on.
- This product starts its initialization operations.

## Turning the power OFF

### Important!

**Use the printer with its power turned permanently on. When you are not using the printer, always leave the power on and put the printer into the sleep mode while not in use.**

**If you do not put the printer into the sleep mode, the ink inside the printer could settle out and/or coagulate, causing poor image quality or printer failure.**

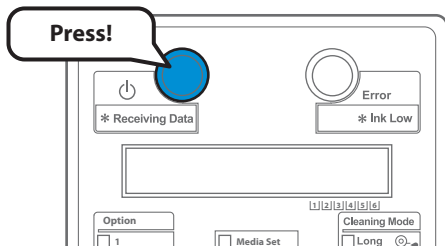
["Sleep Mode" on page 27](#)

[1] Check that the printer completes printing and no object including a jig is loaded on the table.

[2] Prepare items required for daily maintenance.

["Preparing for Daily Maintenance" on page 96](#)

[3]



Press the power button to turn the power OFF.

[4]

**Daily Maint. : Start**

Press the [Enter] key.

[5]

**Remove Media -> E**

The message on the left will appear.

- Remove the media and the jig on the table, and then press the [Enter] key.


**Wait for a while**

- The table, carriage and cleaning wiper move to gain access to daily maintenance.

[6]

<b>Daily Maint. :</b>	<b>End</b>
-----------------------	------------

The message on the left will appear.

- You can start daily maintenance.  
 ["Performing Daily Maintenance" on page 98](#)
- After the daily maintenance is complete, press the [Enter] key.

<b>Cleaning</b>	<b>** %</b>
-----------------	-------------

The printer automatically performs the Short cleaning.

<b>Power Off Printer</b>
--------------------------

After the Short cleaning, this printer will start turning off.

# Sleep Mode

When you are not using the printer, always leave the power on and put the printer into the sleep mode while not in use. If you do not put the printer into the sleep mode, the ink inside the printer could settle out and/or coagulate, causing poor image quality or printer failure.

Make sure to follow the instructions on the operation panel to perform daily maintenance.

The following operations are performed during sleep mode.

- Automatic Head cleaning by timer set in the "SetTimer" Menu.
- Ink circulation
- "Little Charge"

## Important!

**To leave the printer in sleep mode for seven days or more, perform followings once a week:**

- **Check the ink level and replace the relevant ink cartridge if "Ink Low" is displayed.**
- **Agitate the ink cartridges.**

## Steps

- [1] Make sure that the printer's operating condition is as follows:
- The Front cover and the PG handle cover are closed.
  - No object including a jig is loaded on the table.
  - The remaining ink level is sufficient.
  - The waste ink bottle has enough space.

## Important!

**If you are going to use the sleep mode for a prolonged period of time, first empty the waste ink tank.**

- [2] Prepare items required for daily maintenance.  
["Preparing for Daily Maintenance" on page 96](#)

- [3]  Press the [Menu] key.

- [4] 

Menu5:	Sleep Mode >
--------	--------------

 Press the [ - ] key until "Menu5: Sleep Mode >" appears.
  - Press the [ > ] key.

- [5] 

SleepMode:	Start
------------	-------

 Press the [Enter] key.

- [6] 

Start Sleep Mode?
-------------------

 Press the [Enter] key.

[7] 

Daily Maint. :	Start
----------------	-------

Press the [Enter] key.

[8] 

Remove Media	- >	E
--------------	-----	---

The message on the left will appear.

- Remove the media and the jig on the table, and then press the [Enter] key.


Wait for a while
------------------

- The table, carriage and cleaning wiper move to gain access to daily maintenance.

[9] 

Daily Maint. :	End
----------------	-----

The message on the left will appear.

- You can start daily maintenance.  
 ["Performing Daily Maintenance" on page 98](#)
- After the daily maintenance is complete, press the [Enter] key.

Cleaning	** %
----------	------

The printer automatically performs the Short cleaning.

Restart	- >	Enter
---------	-----	-------

The sleep mode will start.

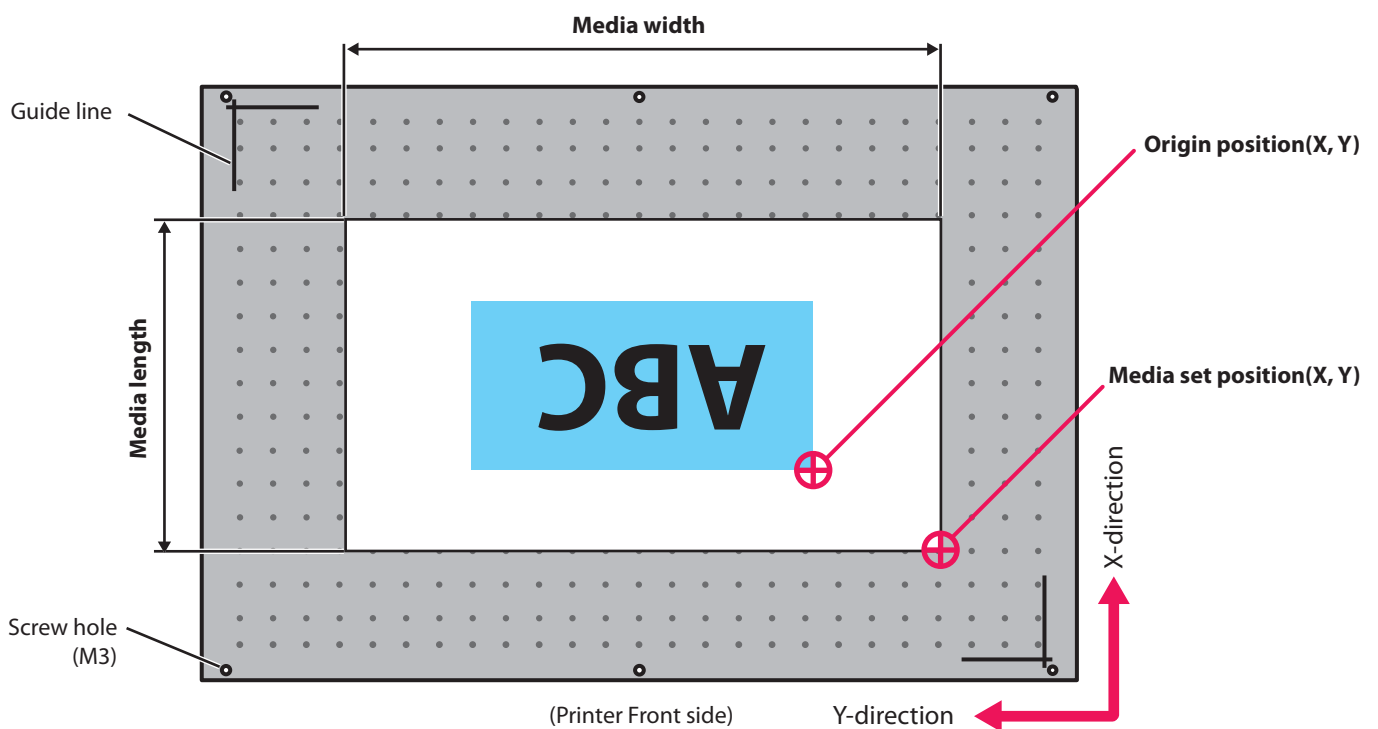
- To exit the sleep mode, press the [Enter] key.

 Note

- The power button flashes in blue while the printer is in the sleep mode.
- To set the timer for automatic head cleaning during sleep mode, see ["SleepMode2: SetTimer" on page 84](#).
- Depending on the elapsed time from the previous automatic maintenance, the printer may automatically execute head cleaning and/or ink charging, etc., when it exits the sleep mode. Such operation does not depend on the sleep mode settings. It is an automatic maintenance function of the printer.

## Printing area

- When loading new media, you need to enter the media size (width and length), media set position and origin position (print start position) from the operation panel.
- Minimum margins from media set position to the origin position are 5 mm x 5 mm.
- The guide line indicates the maximum media size (483 x 329 mm).
- Use the screw hole (M3) to attach your own jig.
- Printing is always started from Origin position (print start point).  
See the figure below as example (setting: Landscape/Set the media horizontally).



## Loading media

### WARNING



**Do not open or close the front cover if you are not in a balanced posture.**

If you open or close it in an unbalanced posture, your hands or other body parts could get caught in it, possibly resulting in serious injury.

### 1. Placing the media on the table

[1]

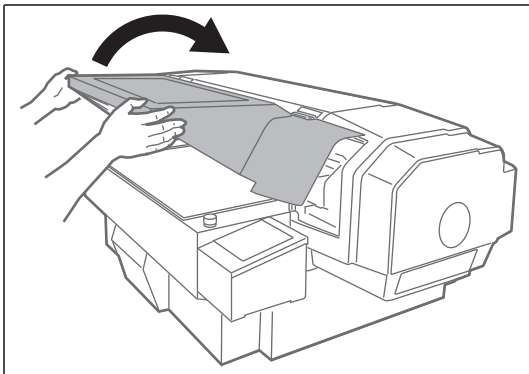
Set Media, then

press Set Media key.

Check that the message on the left is displayed.

- If not displayed, press the [Remove Media] key.

[2]



Open the front cover slowly, holding it by the places shown in the picture and using both hands.

- Fully open the front cover.

### CAUTION



**Always open the front cover fully.**

If you leave it part-open, it could close suddenly.

Set media, then

+ -

close cover.

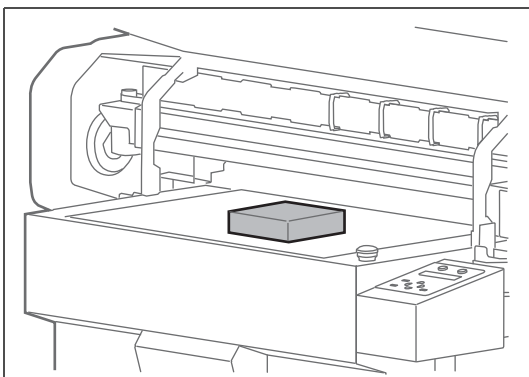
+ -

Check that the message on the left is displayed.

#### Note

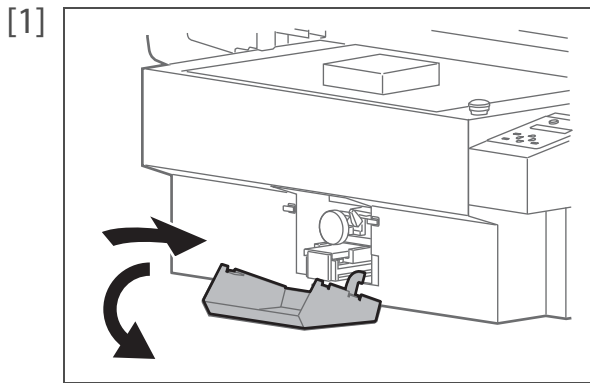
- If the message on the left is displayed, you can use the [+] and [-] keys to change the vacuum fan setting.
- Change this setting depending on the thickness of the media.
- The vacuum fan will start operating when the [+] or [-] key is pressed.
- If you change the setting, it will be reflected in the currently selected User Type.

[3]

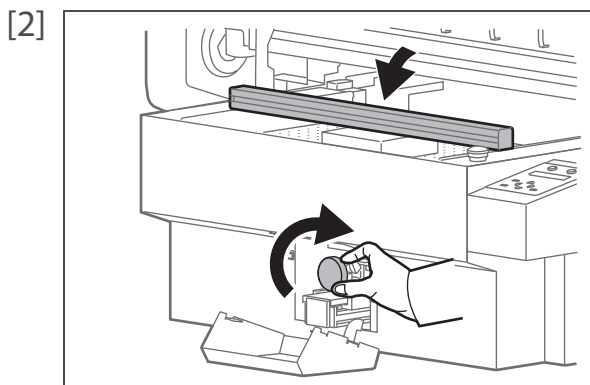


Place the media on the table.

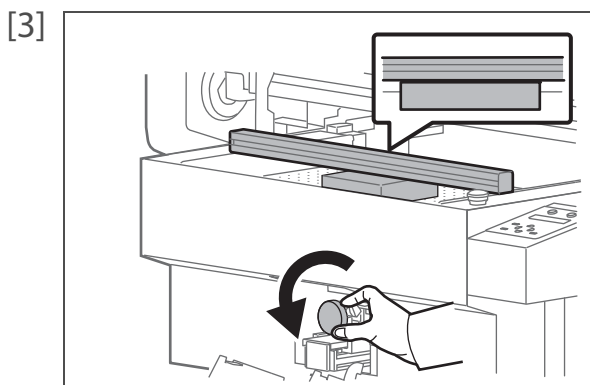
## 2. Adjusting the table's height



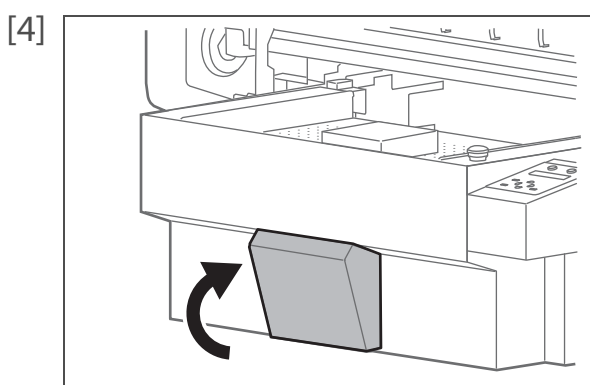
Open the PG handwheel cover, by pressing on it.



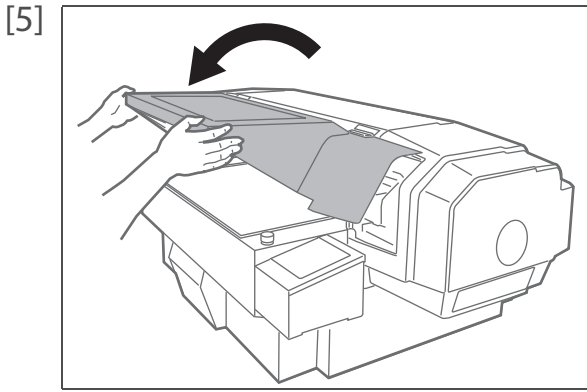
- Turn the PG handwheel to lower the table.
- Position the media height guide over the table.



Turn the PG handwheel to raise the table to the position where the media touches the media height guide.



- Remove the media height guide.
- Close the PG handwheel cover.



Close the front cover slowly, holding it by the places shown in the picture and using both hands.

**CAUTION**



**When closing the front cover, always use both hands and hold it by the portions specified.**

Do not place your fingers on the edges of the printer's opening portion, or on any parts around those edges. Your fingers could get caught and be injured.



Press the [Set Media] key.

- The message on the left will appear. The table will move inward, and a check will be run using the obstacle sensor, to make sure that the media will not contact with the head.



**Note**

If the table is still positioned too high, the following will appear in the order given: "Obstacle Detected", "Press Remove Media", "key". Press the [Remove Media] key and readjust the table's height.



Press the [Enter] key.



**Note**

- This menu only appears when the user Type are selected for the first time.
- If you select "On", you will have to input the media width, media length, media set position and origin position after pressing the [Set Media] key each time you set a media on the table.
- If you select "Off" via the [-] key, "Ready to Print" will be displayed after pressing the [Set Media] key each time you set a media on the table. In that case, the currently selected User Type values will be used for the media width, media length, media set position and origin position.

### 3. Inputting the media width and length



- Use the [+] / [-] key to input the media width.
- Press the [Enter] key.



**Note**

- These menus will only appear if "On" is set for "Detailed-Set".
- Any value from 30 mm to 483 mm can be set for the width.
- If you use 483 mm width media, you cannot input a Y-direction value for the set position.



[2] **Length: 329 mm**

- Use the [+] / [-] key to input the media length.
- Press the [Enter] key.

 **Note**

- Any value from 30 mm to 329 mm can be set for the length.
- If you use 329 mm length media, you cannot input an X-direction value for the set position.

 **Note**

- If you entered the maximum media size (W: 483 mm, L: 329 mm), the message “MediaSize [Max.]” will appear on the panel. Then, two seconds later or after pressing the [Enter] key, the message “Confirm SET Pos. ? No” will appear. To skip the “4. Inputting the set position” step, press the [Enter] key on the message.
- If you want to check the media loading position on the table, use [-] key to select “Confirm SET Pos.? Yes”, and then press the [Enter] key.

## 4. Inputting the set position

[1] **SET X: 0.0 Y: 0.0**

Press the [Enter] key.

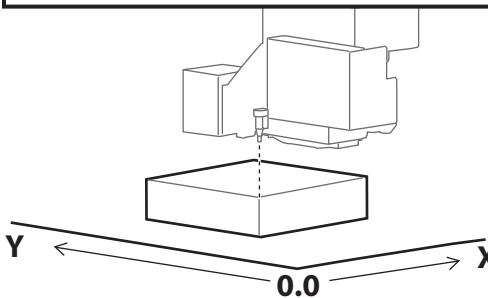
 **Note**

- These menus will only appear if “On” is set for “Detailed-Set”.
- If you know the media set position in advance, you can input it here, using the [+] / [-] key to enter the X (longitudinal) value and [<] / [>] key to enter the Y (lateral) value.
- For the set position, any value from 0.0 to 265.0 can be set for the X value, and any value from 0.0 to 453.0 for the Y value.  
\*These ranges will vary depending on the values set for the media width and length.

**Moving Location Pos.**

- The table will move inward.
- The carriage will move to the set position, with its LED pointer lit steady.

[2] **SET X: 10.0 Y: 20.0**



Use the keys to align the LED pointer with right front corner of the media.

- Use the [+] / [-] key to move the table forward/backward.
  - Use the [<] / [>] key to move the LED pointer leftward/rightward.
- Press the [Enter] key to set the position.

## 5. Inputting the origin position

[1]

Origin: On

Press the [Enter] key.



Note

- This menu will only appear if "On" is set for "Detailed-Set".
- If you select "Off", the origin position set in the User Type will be X = 5.0, Y = 5.0.



Note

- If you entered the minimum media size (W: 30 mm, L: 30 mm), the message "MediaSize [Min.]" will appear on the panel. Then, two seconds later or after pressing the [Enter] key, the message "Confirm ORG Pos. ? No" will appear. You can skip the origin position confirmation by pressing the [Enter] key. The origin is set to X: 5.0, Y: 5.0.
- If you want to check the origin position on the media, use the [-] key to select "Confirm ORG Pos. ? Yes", and then press the [Enter] key.

[2]

ORG X: 5.0 Y: 5.0

Press the [Enter] key.



Note

- If you know the print origin position in advance, you can input it here, using the [+] / [-] key to enter the X (longitudinal) value and [<] / [>] key to enter the Y (lateral) value.
- For the origin position, any value from 5.0 to 270.0 for the X value, and any value from 5.0 to 453.0 for the Y value, can be entered.  
\*These ranges will vary depending on the values set for the media width and length.

Moving Origin Pos.

- The table will move inward.
- The carriage will move to the set position, with its LED pointer lit steady.

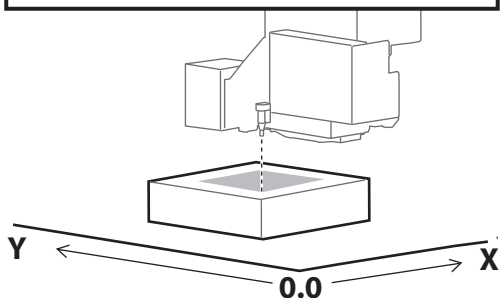
[3]

ORG X: 15.0 Y: 40.0

Use the keys to move the LED pointer to the origin position (print start point).

- Use the [+] / [-] key to move the table forward/backward.
- Use the [<] / [>] key to move the LED pointer leftward/rightward.

Press the [Enter] key to set the position.



Ready to Print

- That completes setting of the media.
- You can now start printing by sending print data from the computer.



Note

To display the input menu for the media width, length, set position and origin position, long press the [Enter] key for more than 2 seconds while "Ready to Print" is displayed.

Any values you input will be reflected in the currently selected User Type.

## Nozzle check and cleaning

Before starting everyday operation, please perform nozzle check printing to check the print head condition. If nozzle clog is found, conduct cleaning.


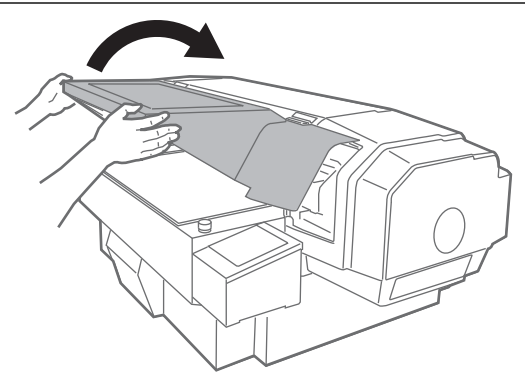
This printer offers the following 2 kinds of nozzle checks:

- Nozzle Check - Prints the nozzle check patterns
- Nozzle Check B - Prints the nozzle check patterns on the partially colored background.

### Note

- "Nozzle Check B" will only appear in the menu if 6-color is set.
- When using white ink, colored media, transparent films or semi-transparent films (such as OHP film, tracing paper and more) are recommended to use for nozzle check.

## 1. Nozzle check steps

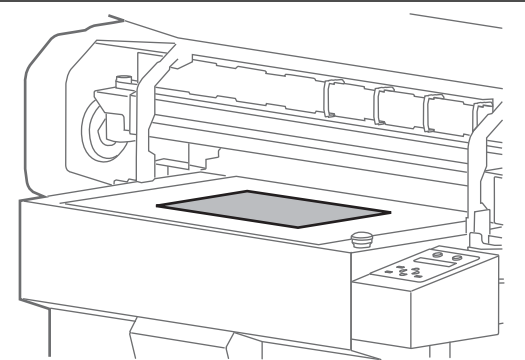
- [1] **Set Media, then**  
**press Set Media key.**
- Check that the message on the left is displayed.
- If not displayed, press the [Remove Media] key.
- 
- [2] 
- Open the front cover slowly, holding it by the places shown in the picture and using both hands.
- Fully open the front cover.

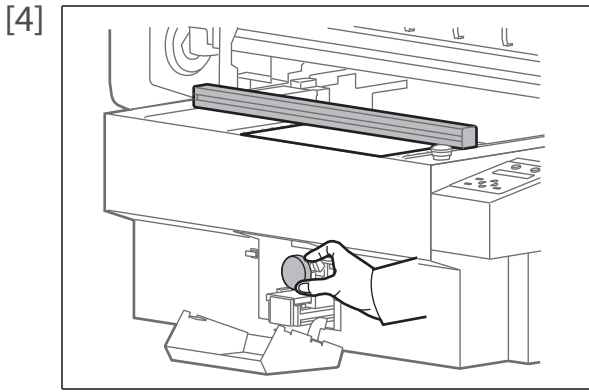
### CAUTION



**Always open the front cover fully.**

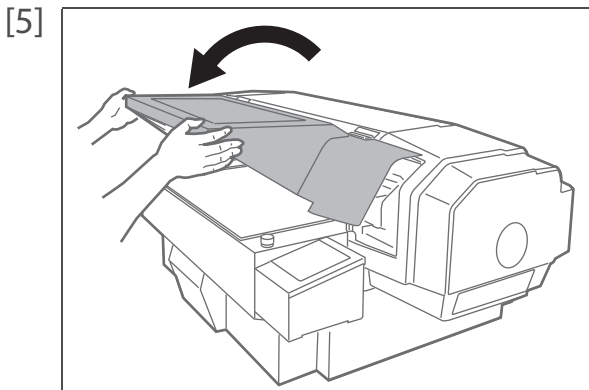
If you leave it part-open, it could close suddenly.

- [3] 
- Place the media on the table.
- Set an A4 size media sideways on the table.
- Important!**
- The minimum required media size for nozzle check printing is width 260 mm x length 35 mm. If you use a media that is smaller than this, the printing will overshoot it.**

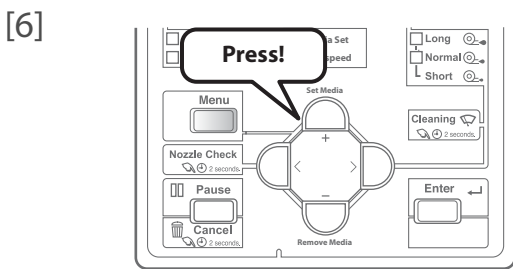


Adjust the table's height.

☞ "Adjusting the table's height" on page 31



Close the front cover slowly, holding it by the places shown in the picture and using both hands.



Press the [Set Media] key.

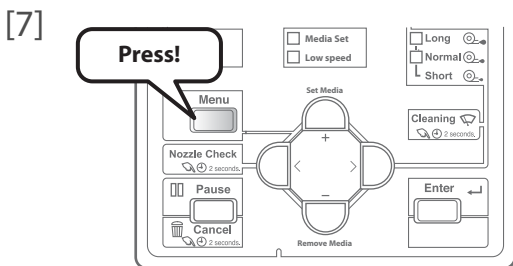
Note

If "Detailed-Set" is set to "On", you need to enter the media width, media length, set position and origin position.

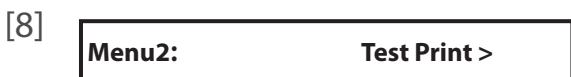
☞ "Inputting the media width and length" on page 32

☞ "Inputting the set position" on page 33

☞ "Inputting the origin position" on page 34



Press the [Menu] key.



- Press the [-] key until "Menu2: Test Print >" appears.
- Press the [>] key.



- Press the [Enter] key.
- To select Nozzle Check B, press the [-] key to display "Nozzle Check B", then press the [Enter] key.

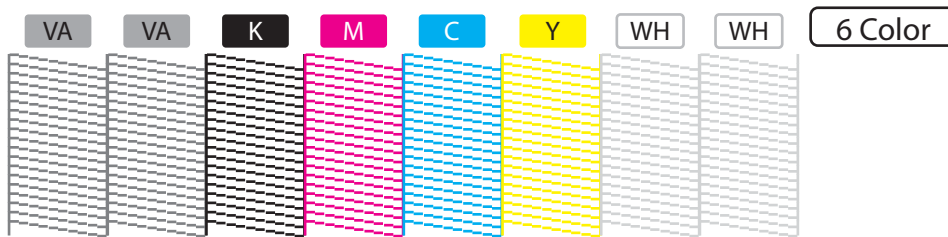
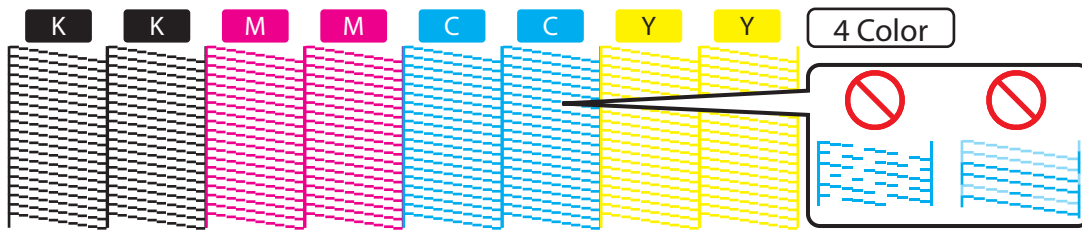


- Nozzle check patterns will be printed.

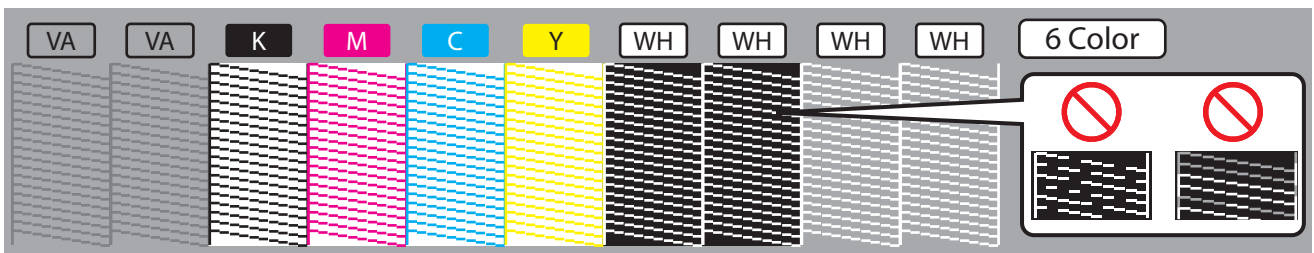
[10] Check the nozzle check print.

- If parts of lines are missing or faint, go to "[Cleaning steps](#)" on page 38.
- If all lines are clearly printed, go to "[Starting printing](#)" on page 39.

The figure below are examples of the Nozzle Check patterns.



- Nozzle Check B is printed on the partially colored background.
- The figure below is an example of the Nozzle Check B pattern. In this example, non-colored background area is shown in gray.

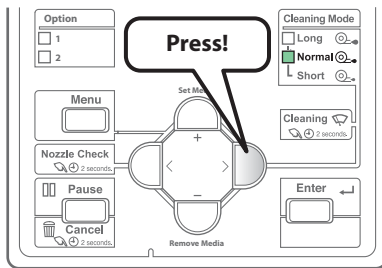


Note

The printer information (date and time of printing, printer's serial number, firmware version) is printed on the nozzle check pattern.

## 2. Cleaning steps

[1]



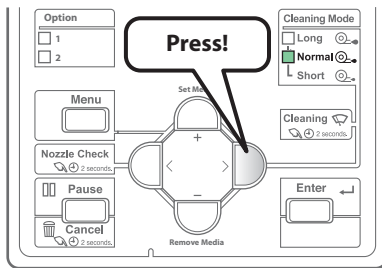
Press the [Cleaning] key, so that the “Normal” indicator (one of the “Cleaning Mode” indicators) lights steady.

- The cleaning mode will be set to “Normal”.



You can alternatively do this via the printer driver or the VSM's remote panel.

[2]



Press the [Cleaning] key for more than two seconds.

- Cleaning will start.

[3]

Conduct a nozzle check, again.

 ["Nozzle check steps" on page 35](#)

- If there is still nozzle clogging, repeat Normal cleaning. See ["Head cleaning" on page 103](#) regarding “Short”, “Long” and “LittleCharge” cleaning.

# Starting printing

## Printing from the Layout and Print Tool 2

You can lay out and print out the images using the bundled CD-ROM software, Layout and Print Tool 2.

This section explains the basic printing instructions only. For the details, see the operation manual for Layout and Print Tool 2.

Layout and Print Tool 2 supports following graphic file formats:

- PNG (.png)
- TIFF (.tif)

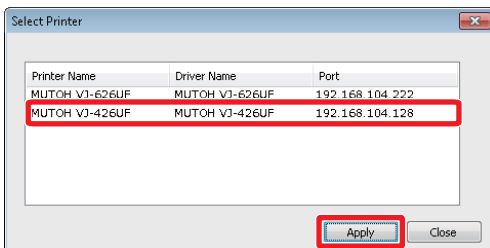
### Note

For the details of supported file format, see the Layout and Print Tool 2 Operation Manual.

[1] Start Layout and Print Tool 2.

 "["Launching Layout and Print Tool 2" on page 20](#)

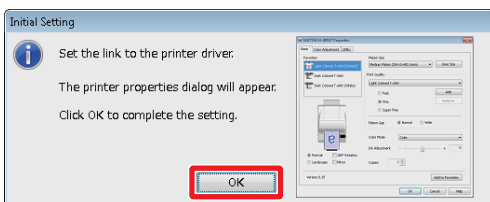
[2]



Select the printer driver.

- Click [Apply].

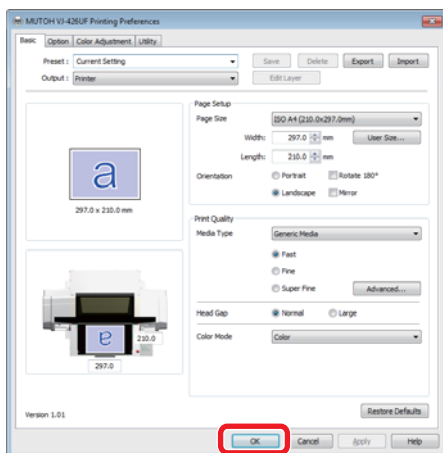
[3]



If the driver settings have not been completed, the dialog on the left will appear.

- Click [OK].

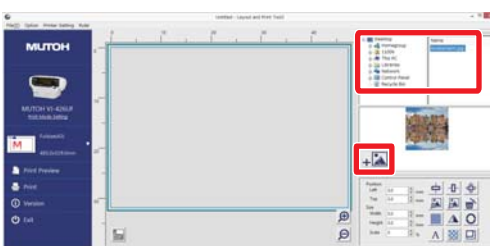
[4]




The dialog on the left will appear.

- Click [OK].

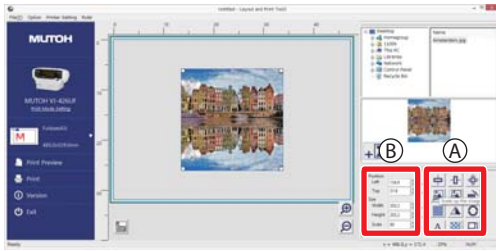
[5]



Select the image to be used in printing.

- Click the  button to insert the image.

[6]



Align the image by using the following methods:

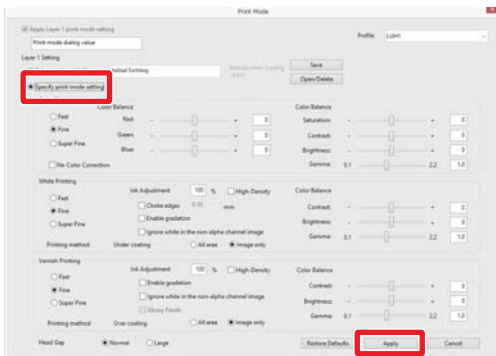
- Click the edit buttons (A on the left illustration).
- Enter values directly (B on the left illustration).

[7]



Click [Print Mode Setting].

[8]



- Select [Specify print mode setting].
- After specifying all the settings, click [Apply].

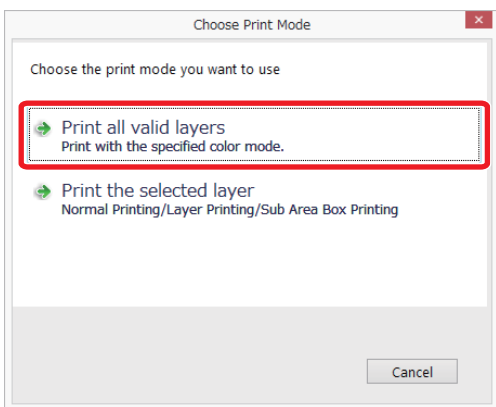
[9]



Click [Send to Layer Editor].

- The “Choose Print Mode” dialog will appear.

[10]



Select the Print Mode.

- Printing is executed.

 **Note**

For more details of layer printing, see the Layout and Print Tool 2 Operation Manual.



## Printing from the Printer driver

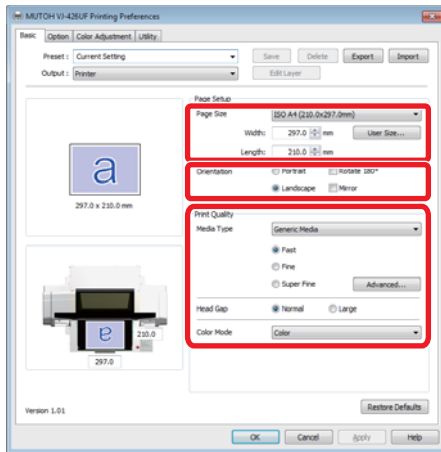
In this section, a method to print from the printer driver is explained.

[1] Open printing data from application software to execute printing.

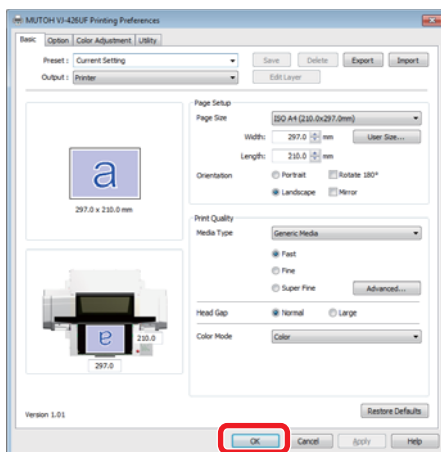
[2] Open the print setup screen of the VJ-426UF printer driver from the application software.

[3] Conduct print setup.

- Set [Page Size], [Orientation] and [Print Quality].

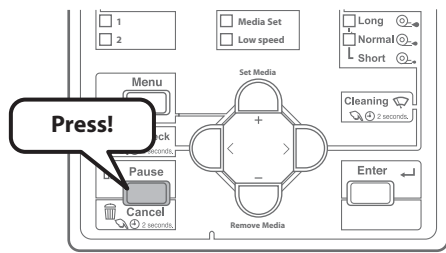


[4] Click [OK].



[5] Printing is executed.

## Pausing/Restarting printing



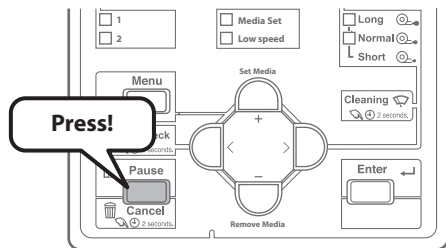
To halt printing, press the [Cancel] key.

- The printing pauses.
- To resume printing, press the [Enter] key.

### Note

- In this operation, printing data sent to the product are not deleted.
- Please see the followings when canceling printing and deleting data.  
👉 ["Canceling printing" on page 42](#)

## Canceling printing



Press and hold the operation key on the operation panel for 2 seconds or more during printing.

- The printing is canceled (it cannot be restarted).
- The printing data sent to the product are deleted.

### Note

You can alternatively do this via the printer driver or the VSM's remote panel.

## What you can do on the operation panel during printing

[1]

<b>Receiving</b>
<b>Printing</b>
<b>Processing</b>

Press the [Menu] key while any of the messages on the left is displayed.

[2]

<b>Menu1:</b>	<b>PF Micro Adj.</b>
<b>Menu2:</b>	<b>Backup</b>
<b>Menu3:</b>	<b>Job Status</b>
<b>Menu4:</b>	<b>ResetWasteInk</b>

Use the [+] / [-] key to select a menu item.

- 👉 ["Menu1: PF Micro Adjustment" on page 43](#)
- 👉 ["Menu2: Backup" on page 43](#)
- 👉 ["Menu3: Job Status" on page 44](#)
- 👉 ["Menu4: Reset Waste Ink" on page 44](#)

## Menu1: PF Micro Adjustment

---

With this menu item, you can alter the micro-adjustment value for the feed correction. The alteration will be valid for the current printing only.

- See the following related sections of Panel Setting Menus (Chapter 2 below):

 ["\\*\\*\\*>3: PF Adjust" on page 61](#)

[1] 

<b>Menu1:</b>	<b>PF Micro Adj.</b>
---------------	----------------------

Press the [Enter] key to access the menu item.

[2] 

<b>Micro:</b>	<b>5.00 %</b>
---------------	---------------

- Use the [+] / [-] key to change the setting value.
- Press the [Enter] key to set the changed value.



### Note

- The changed value set with this menu item will become invalid when the printing ends.
- To have the change reflected in the currently selected User Type, save it using "Menu2: Backup".

## Menu2: Backup

---

With this menu item, you can have a change that you made via "Menu1: PF Micro Adj." reflected in the currently selected User Types.

[1] 

<b>Menu2:</b>	<b>Backup</b>
---------------	---------------

Press the [Enter] key.

[2] 

<b>Update Parameter?</b>
--------------------------

Press the [Enter] key.

<b>* Parameter Updating *</b>
-------------------------------

The setting value will be saved.

## Menu3: Job Status

---

This menu displays data on the job being printed.

- See the following related sections of Panel Setting Menus (Chapter 2 below):

 ["Status3: Job Status" on page 83](#)

[1]

<b>Menu3:</b>	<b>Job Status</b>
---------------	-------------------

Press the [Enter] key to access the menu.

[2]

<b>ToDoLength:</b>	<b>xxx.x m</b>
--------------------	----------------

Use the [+] / [-] key to select a menu.

<b>Done:</b>	<b>xxx.x m</b>
--------------	----------------

- ToDoLength: display this to check the total length (paper feed direction) of the job being printed.

<b>Remain:</b>	<b>xxx.x m</b>
----------------	----------------

- Done: display this to check how much of the current job has been printed.

<b>Remain Time:</b>	<b>xx min</b>
---------------------	---------------

- Remain: display this to check how much of the current job remains to be printed.

- Remain time: displays the time remaining to complete the print job.



### Note

- The values displayed by this function are approximate. They are not guaranteed to be rigorously accurate.
- If the print job data contains no length information, "0" will be displayed for all these items.

## Menu4: Reset Waste Ink

---

Use this menu to reset the waste ink counter to zero, if you empty out the waste ink tank during printing.

[1]

<b>Menu4:</b>	<b>ResetWasteInk</b>
---------------	----------------------

Press the [Enter] key to access the menu.

[2]

<b>Initial. Parameter?</b>
----------------------------

Press the [Enter] key.

<b>** Initializing **</b>
---------------------------

The counter will be reset to zero.

## Checking the printing area

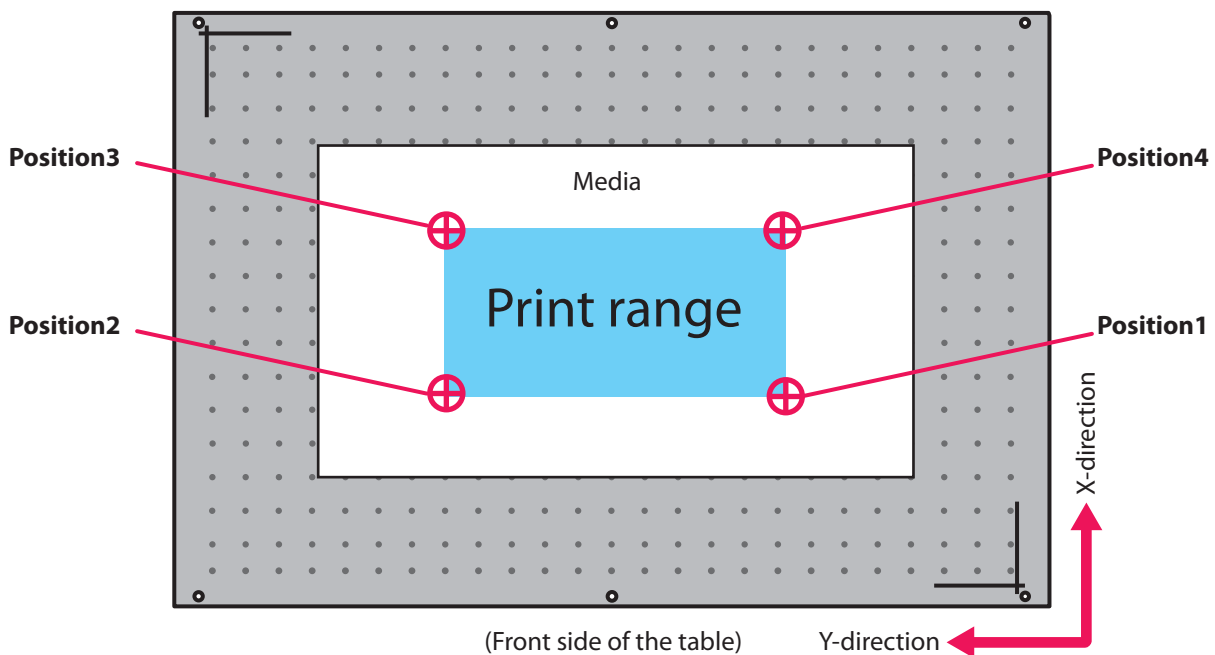
To avoid printing on an unwanted area on your media, the Show Edges function helps to check the printing area of the print data before printing. By specifying this setting before printing, LED pointer shows where the image will be printed on the media. This helps to avoid misprinting especially when printing on an object that you do not have more than one pieces.

With this function, you can check the following:

- Whether an image can be printed on the intended area on the media.
- Whether the print data can be fitted on the media.

### Operation

- Locate the four corners of the printing area by the LED pointer.
- The LED pointer flashes (every second) on the point.
- The LED pointer lights up when moving from point to point.
- If the print data is too big for the media, the LED pointer flashes fast (twice a second) on the point.
- Move the LED pointer from the "position1" to "position4" in order in the following illustration.

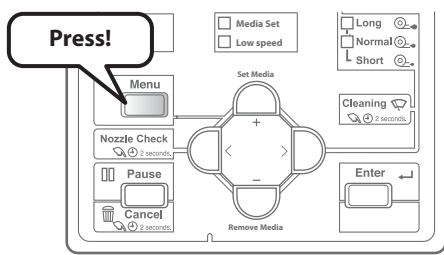


### Note

- Because of this product's structure, when the length (X direction length) of the print data is 270 mm and more, the LED pointer cannot show the correct position. When this happens, the LED pointer flashes when moving from point to point. If the LED pointer is flashing every second, the print data is within the set user-defined range.
- When the print data does not have the length information (X direction length), the LED pointer does not move from Position3 and 4.

# 1. Setting "Show Edges" function

[1]



Press the [Menu] key.

[2]



Press the [>] key.

[3]



Press the [Enter] key.

[4]



- Use the [+] or [-] key to select the user type from Type 1 to Type 10.
- Press the [Enter] key.

## Important!

If you have changed the user type to another type, all settings that can be changed by user type settings change to the settings of the selected user type.

- When the "media setting" for the user type settings have been changed, the settings for the "media size", "media location", and "origin position" are changed to the settings of the selected user type. Therefore, be careful with the print start position. Images might be printed at the position that was not intended or outside the media.
- You can change the settings for the "media setting" from the Panel Setting menu.

[\\*\\*\\*>5: MediaSetting" on page 65](#)

[5]



- Press the [-] key until "\*\*\*>7: Show Edges" appears.
- Press the [Enter] key.

[6]



Use the [+] or [-] key to select the setting.



- Off: LED pointer does not show the printing area. This is the default setting.
- Step: LED pointer shows where the image will be printed on the media and the printer will ask you at each point of corner if the position is OK.
- Auto: LED pointer shows where the image will be printed on the media without checking with the user.



[7]

Press the [Enter] key to confirm.

## 2. How to check the printing area

This section explains about when the checking method is set to "Step".

### Note

When it is set to "Auto", the following steps 2 to 5 are skipped. After step 1, the LED pointer moves from the "position1" to "position4" in order.

[1]

**Start Show Edges** -> **E**

- When the media is loaded and the print data is sent to the printer, the left message is displayed.
- Press the [Enter] key.

### Note

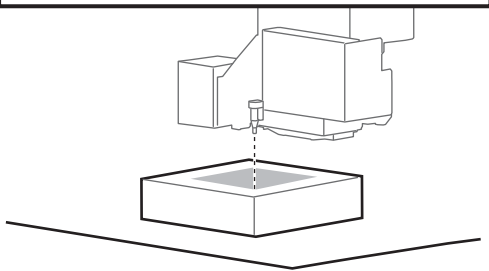
If you press the [Cancel] key, the printer starts printing without showing printing area.

**Wait for a while**

- The LED pointer moves to the bottom right corner of the print range (position1) while the LED is turned off.

**Confirming PrintArea**

- After moving, the LED pointer flashes every second, for a total of 3 times.



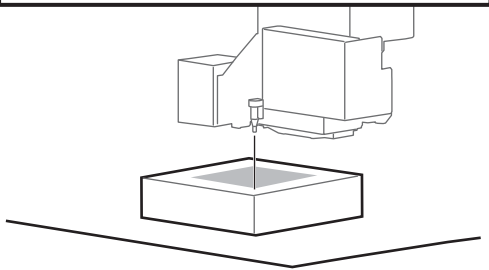
[2]

**Position 1 OK?**

Check that the LED pointer's position is not misaligned with the media position, and then press the [Enter] key.

### Note

- The LED pointer remains on until the [Enter] key is pressed.
- Printing is canceled when the [Cancel] key is pressed.

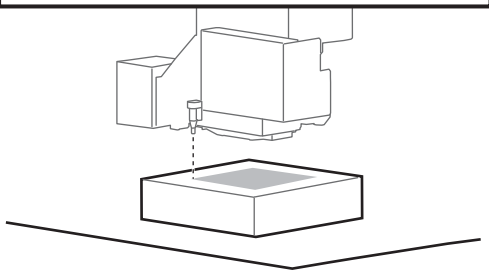


**Confirming PrintArea**

- The LED pointer moves to the bottom left corner of the print range (position2).
- The LED pointer remains on while moving.
- After moving, the LED pointer flashes every second, for a total of 3 times.

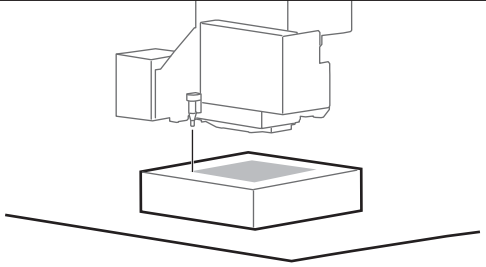
### Note

When the print data's width (Y direction length) is too big for the media, the LED pointer flashes twice a second, for a total of 6 times after moving.



[3]

### Position 2 OK?

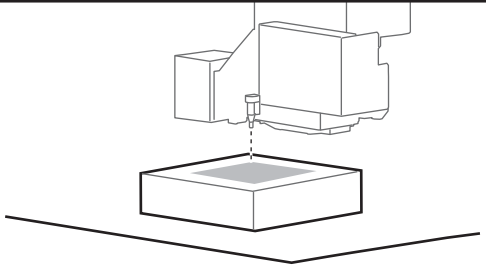


Check that the LED pointer's position is not misaligned with the media position, and then press the [Enter] key.

#### Note

- The LED pointer remains on until the [Enter] key is pressed.
- Printing is canceled when the [Cancel] key is pressed.

### Confirming PrintArea



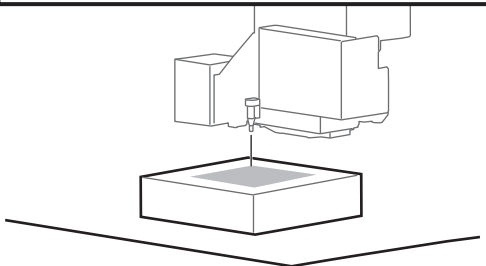
- The LED pointer moves to the top right corner of the print range (position3).
- The LED pointer remains on while moving.
- After moving, the LED pointer flashes every second, for a total of 3 times.

#### Note

When the print data's width (Y direction length) is too big for the media, the LED pointer flashes twice a second, for a total of 6 times after moving.

[4]

### Position 3 OK?

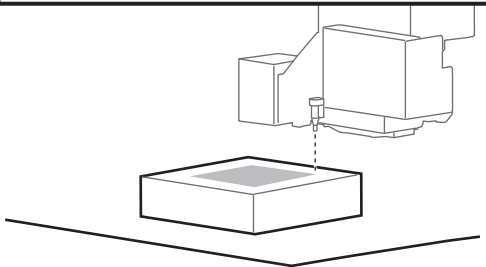


Check that the LED pointer's position is not misaligned with the media position, and then press the [Enter] key.

#### Note

- The LED pointer remains on until the [Enter] key is pressed.
- When the print data's length (X direction length) is too big for the media, the LED pointer flashes twice a second, for a total of 6 times after moving.
- Printing is canceled when the [Cancel] key is pressed.

### Confirming PrintArea



- The LED pointer moves to the top right corner of the print range (position4).
- The LED pointer remains on while moving.
- After moving, the LED pointer flashes every second, for a total of 3 times.

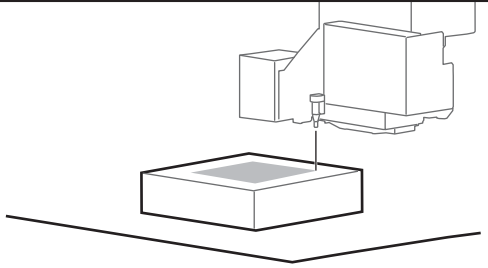
#### Note

- When the print data's length (X direction length) is too big for the media, the LED pointer flashes twice a second, for a total of 6 times after moving.
- Because of this product's structure, when the length of the print data (depth) is 270 mm and more, the LED pointer cannot show the correct position. When this happens, the LED pointer flashes when moving from the print range position3 to 4. If the LED pointer is flashing every second, the print data is within the set user-defined user type range.



[5]

**Position 4 OK?**

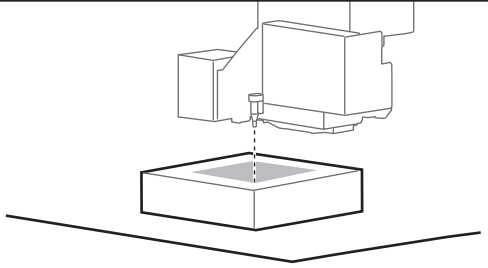


Check that the LED pointer's position is not misaligned with the media position, and then press the [Enter] key.

 **Note**

- The LED pointer remains on until the [Enter] key is pressed.
- Printing is canceled when the [Cancel] key is pressed.

**Confirming PrintArea**



- The LED pointer moves to the bottom right corner of the print range (position1).
- The LED pointer remains on while moving.
- After moving, the LED pointer flashes every second, for a total of 1 time.

**Wait for a while**

- The carriage returns to the original position (capping station).
- Checking the print range is complete.

[6]

**Start Printing ?**

Press the [Enter] key to start printing.

 **Note**

Printing is canceled when the [Cancel] key is pressed.

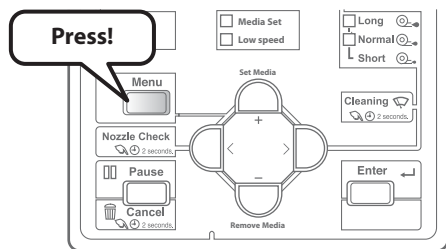
## Applying additional UV light after printing

When you want to promote ink curing, you can apply additional UV light on the print after printing.

This is useful for the following cases.

- When printing on media that soaks ink, such as a cloth and so on.
- When printing an image that uses a lot of ink.
- When the multi-layered ink on the media is thick.

[1]



After printing, press the [Menu] key.

[2]

**Menu3: Maintenance >**

- Press the [-] key until "Menu3: Maintenance >" appears.
- Press the [>] key.

[3]

**Mnt.4: UV Scan >**

- Press the [-] key until "Mnt.4: UV Scan >" appears.
- Press the [>] key.

[4]

**UV Scan1: Start**

Press the [Enter] key.

- The printer applies UV light on the print.

### Note

- The range to apply the UV light depends on the user type's [MediaSetting] – [Size] and [Location] settings that are currently selected.
- See the following when changing the number of reciprocating motions for every 1 inch in the media feeding direction while performing UV scanning.
  - ☞ ["UV Scan2: Scans" on page 81](#)
- To apply additional UV-LED light automatically every time after printing, see the following.
  - ☞ ["UV Scan3: Post Cure" on page 81](#)

For details on the related sections of the Panel Setting menu, see the following.

☞ ["Mnt.4: UV Scan" on page 80](#)

## Layer printing

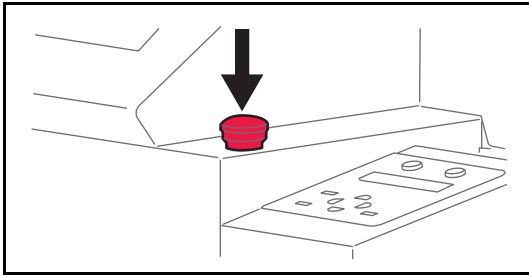
This printer has the capability for layer printing.

- To perform layer printing using Layout and Print Tool 2 or ValueJet Layer Editor, see Layout and Print Tool 2 Operation Manual or ValueJet Layer Editor Operation Manual.
  - 👉 ["Displaying Help or Manual" on page 21](#)
- See the following related sections of Panel Setting Menus (Chapter 2 below):
  - 👉 ["Adv. 1: Multi Strike" on page 68](#)
  - 👉 ["Adv. 9: Multi Layer" on page 72](#)

## Emergency stop button

The printer is equipped with an emergency stop button. The methods for using and resetting it are set out below.

[1]



Press the emergency stop button.

- The printer will stop operation.

**Emergency Stop**

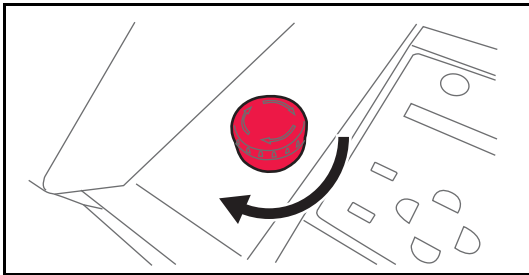
**Reboot a printer**

The message on the left will appear.

[2]

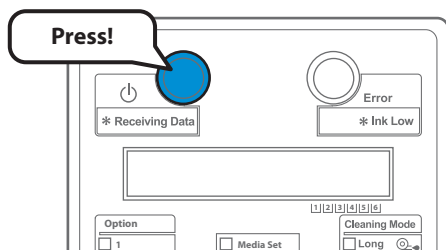
Resolve the cause(s) of the emergency stop, and make sure there are no problems.

[3]



Turn the emergency stop button clockwise, to turn it off and cancel the emergency stop status.

[4]



- Turn the power button off.
- Wait a short while, then turn the power button on, to restart the printer.

# Chapter 2 Advanced Operations

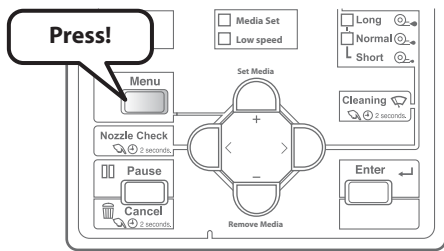
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# Introduction

Using the panel setting menus, configure various kinds of settings for the printer.

## Operating the keys to use the menus

[1]



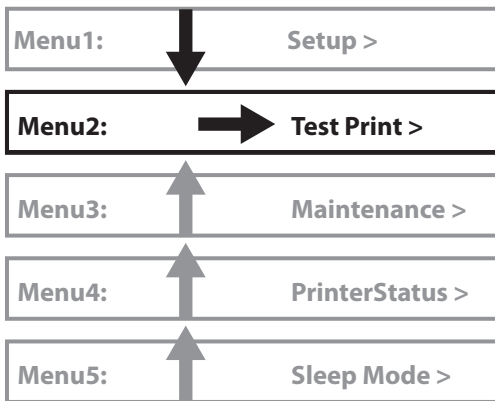
To access the panel setting menus, press the [Menu] key.



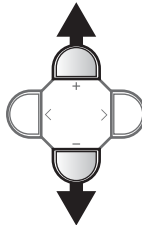
**Note**

You cannot access the panel setting menus while printing or receiving data (the power button is flashing).

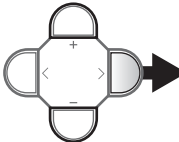
[2]



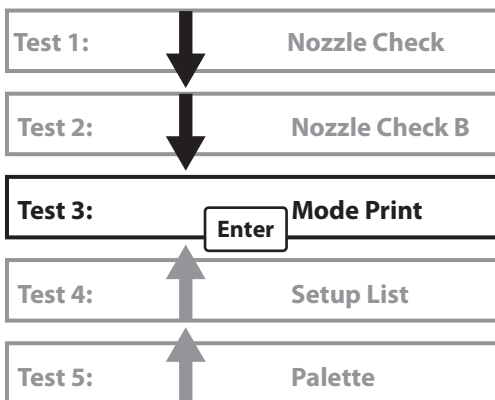
Use the [+] / [-] key to scroll through the menus.



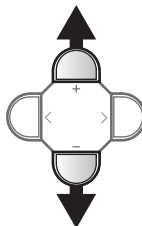
Press the [>] key to access the menu you are on.



[3]



Use the [+] / [-] key to select submenus, enter numeric values and so forth.



Press the [Enter] key to set/execute.



Use the [Cancel] key to return to the menu/submenu.  
(In the case shown on the left, pressing [Cancel] key will return to "Menu2: Test Print">.)







# Panel setup menu

## Menu1: Setup

Menu 1 : Setup >

Configures various settings of the printer.

### Submenus






- Set 1 : User Type  [Set1: User Type](#)
- Set 2 : Advanced >  [Set2: Advanced](#)
- Set 3 : Init. Settings >  [Set3: Initial Settings](#)
- Set 4 : Initialize  [Set4: Initialize](#)

## Menu2: Test Print

Menu 2 : Test Print >

Performs nozzle check of the print head and prints a printer setup list.

### Submenus

- Test 1 : Nozzle Check  [Test1: Nozzle Check](#)
- Test 2 : Nozzle Check B  [Test2: Nozzle Check B](#)
- Test 3 : Mode Print  [Test3: Mode Print](#)
- Test 4 : Setup List  [Test4: Setup List](#)
- Test 5 : Palette  [Test5: Palette](#)

### Note

“Nozzle Check B” will only appear in the menu if 6-color is set.

### Menu3: Maintenance

---







**Menu 3 :**            **Maintenance >**

Performs maintenance for Print head and ink.

---

Submenus

---

- |                                       |  |
|---------------------------------------|--|
| <b>Mnt. 1 :</b> <b>Cleaning</b>       |  <a href="#">Mnt.1: Cleaning</a>          |
| <b>Mnt. 2 :</b> <b>ResetWasteInk</b>  |  <a href="#">Mnt.2: ResetWasteInk</a>     |
| <b>Mnt. 3 :</b> <b>CR Maintenance</b> |  <a href="#">Mnt.3: CR Maintenance</a>    |
| <b>Mnt. 4 :</b> <b>UV Scan &gt;</b>   |  <a href="#">Mnt.4: UV Scan</a>           |
| <b>Mnt. 5 :</b> <b>Ink Discharge</b>  |  <a href="#">Mnt.5: Ink Discharge</a>     |
| <b>Mnt. 6 :</b> <b>Daily Maint.</b>   |  <a href="#">Mnt.6: Daily Maintenance</a> |

### Menu4: Printer Status

---






**Menu 4 :**            **PrinterStatus >**

Provides printer status information.

---

Submenus

---

- |                                     |   |
|-------------------------------------|---|
| <b>Status 1 :</b> <b>Ink</b>        |  <a href="#">Status1: Ink</a>        |
| <b>Status 2 :</b> <b>Lifetimes</b>  |  <a href="#">Status2: Lifetimes</a>  |
| <b>Status 3 :</b> <b>Job Status</b> |  <a href="#">Status3: Job Status</a> |
| <b>Status 4 :</b> <b>Version</b>    |  <a href="#">Status4: Version</a>    |
| <b>Status 5 :</b> <b>SerialNo.</b>  |  <a href="#">Status5: SerialNo.</a>  |

### Menu5: Sleep Mode

---



**Menu 5 :**            **Sleep Mode >**

Configures or activates sleep modes.

---

Submenus

---

- |                                      |  |
|--------------------------------------|--|
| <b>SleepMode 1 :</b> <b>Start</b>    |  <a href="#">SleepMode1: Start</a>    |
| <b>SleepMode 2 :</b> <b>SetTimer</b> |  <a href="#">SleepMode2: SetTimer</a> |



# Menu1: Setup

## Set1: User Type

The User Type is one of user-settings to set media types and printing conditions for printing.

Set 1 :	User Type
---------	-----------

You can have up to 10 groups of User Type, labeled "Type1" to "Type10". When you select a User Type group ("Type") and press the [Enter] key, that definition group will be set for the printer. Also, a submenu will be displayed.

### Setting values

User :	Type 1
--------	--------

Select a "Type" number, from "Type1" to "Type10".

### Important!

- When you have changed to another User Type, all the settings that are alterable via the User Type will be changed to the values in the currently selected User Type.
    - When the "media setting" for the user type settings have been changed, the settings for the "media size", "media location", and "origin position" are changed to the settings of the selected user type. That means the print start position will also change. Make sure that the printer will start printing from the intended position. If not, the printer could print onto the wrong part(s) of the media or print outside it.
  - "Detailed-Set: On" (on/off for the set check display when a media is set on the table) only appears when the User Type is selected for the first time. Use the [+]/[-] key to select "On" or "Off", and press the [Enter] key.
    - If you select "Detailed-Set: On", you will have to input the media width, media length, media set position and origin position after pressing the [Set Media] key each time you set a media on the table.
    - If you select "Detailed-Set: Off", "Ready to Print" will be displayed after pressing the [Set Media] key each time you set a media on the table.
- The currently selected User Type values will be used for the media width and length, media set position and origin position.

User :	Type 1
--------	--------

Configures the printer settings for selected User Type.

### Submenus

**> 1 :	Print Mode	☞	**>1: Print Mode
**> 2 :	Adjust Print >	☞	**>2: Adjust Print>
**> 3 :	PF Adjust >	☞	**>3: PF Adjust
**> 4 :	Vacuum Fan	☞	**>4: Vacuum Fan
**> 5 :	MediaSetting >	☞	**>5: MediaSetting
**> 6 :	Low Speed	☞	**> 6: Low Speed
**> 7 :	Show Edges	☞	**>7: Show Edges
**> 8 :	Obst. Detect	☞	**>8: Obst. Detect
**> 9 :	User Copy	☞	**>9: User Copy
**> 10 :	Initialization	☞	**>10: Initialization

## \*\*>1: Print Mode

**\*\*> 1 :**      **Print Mode**

Selects the print mode.

- By holding down the [>] key while each print mode is displayed, you can check the resolution, number of passes and printing direction of the print mode.
- After setting the print mode, go on to setting of effect.

### Setting values

**Mode :**      **Fast - >**

High-speed printing

**Mode :**      **Fine - >**

This is the default setting.

**Mode :**      **Super Fine - >**

High-quality printing

## Details of print mode

Print Mode	Color set	Resolution	Pass	Direction	Initial values for effect
Fast	6 Colors	720 x 1080	12pass	Uni (unidirectional)	i-Weave UV
	4 Colors	720 x 1080	6pass	Uni (unidirectional)	i-Weave UV
Fine	6 Colors	720 x 1440	16pass	Uni (unidirectional)	i-Weave UV
	4 Colors	720 x 1440	8pass	Uni (unidirectional)	i-Weave UV
Super Fine	6 Colors	1440 x 1440	32pass	Uni (unidirectional)	i-Weave UV
	4 Colors	1440 x 1440	16pass	Uni (unidirectional)	i-Weave UV

## Effect

**Mode :**      **Fine - >**

Selects the effect.

Set up this menu when you want to improve print quality by adjusting the set print mode.

### Setting values

**Effect :**      **None**

The Effect function is not applied.

**Effect :**      **i-Weave UV**

The printing joint will shade off.  
This is the default setting.

## \*\*>2: Adjust Print>

**\*\*> 2 :**      **Adjust Print >**

Adjusts the printer to optimize the print quality for the media.

- Required media size: width 210 mm x length 100 mm.

 ["Confirm pattern" on page 60](#)

 ["Rough adjustment pattern" on page 60](#)

 ["Fine adjustment pattern" on page 60](#)

---

### Submenus

---

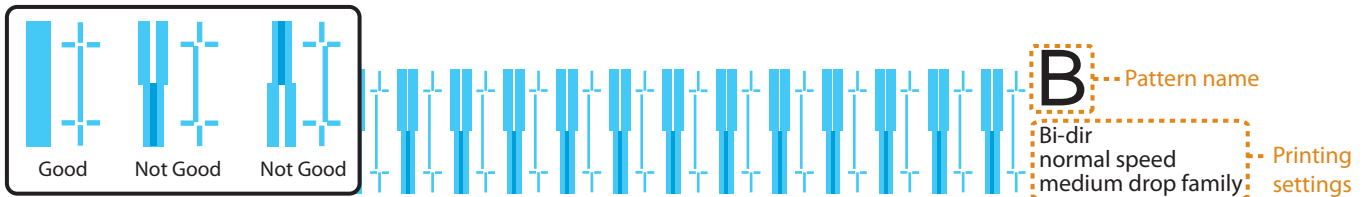
<b>Adj. 1 :</b> <b>Confirm Ptn.</b>	Print a confirm pattern.
<b>Adj. 2 :</b> <b>RoughPtn. ALL</b>	Print rough adjustment patterns A to C and enter adjustment values.
<b>Adj. 3 :</b> <b>RoughPatternA</b>	Print rough adjustment pattern A only and enter an adjustment value.
<b>Adj. 4 :</b> <b>RoughPatternB</b>	Print rough adjustment pattern B only and enter an adjustment value.
<b>Adj. 5 :</b> <b>RoughPatternC</b>	Print rough adjustment pattern C only and enter an adjustment value.
<b>Adj. 6 :</b> <b>Fine Ptn. ALL</b>	Print fine adjustment patterns A to C and enter adjustment values.
<b>Adj. 7 :</b> <b>Fine Pattern A</b>	Print fine adjustment pattern A only and enter an adjustment value.
<b>Adj. 8 :</b> <b>Fine PatternB</b>	Print fine adjustment pattern B only and enter an adjustment value.
<b>Adj. 9 :</b> <b>Fine PatternC</b>	Print fine adjustment pattern C only and enter an adjustment value.

## Steps

- 1.** Print a confirm pattern and check it for printing errors.
- 2.** Print rough adjustment patterns and enter correction values.
  - Select "ALL", or one of "A" to "C".
- 3.** Print fine adjustment patterns and enter correction values.
  - Select "ALL", or one of "A" to "C".

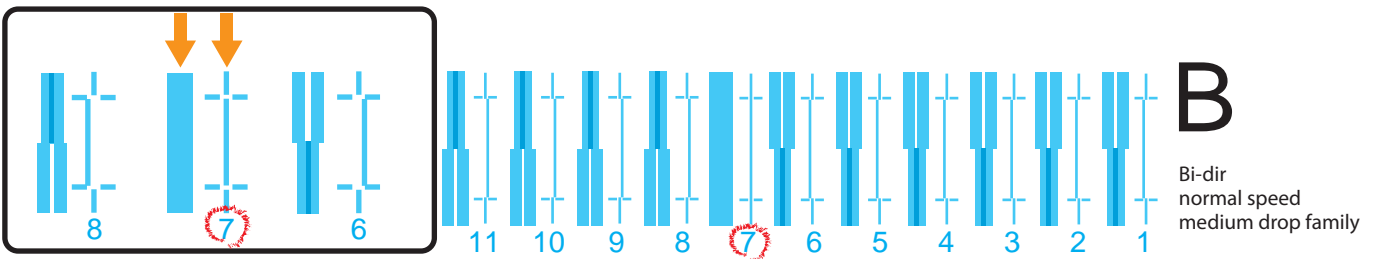
## Confirm pattern

- Press the [Enter] key to carry out printing.
- Check the pattern print. If there are misalignments, proceed to rough adjustment pattern printing.
- In the picture below, there are misalignments.



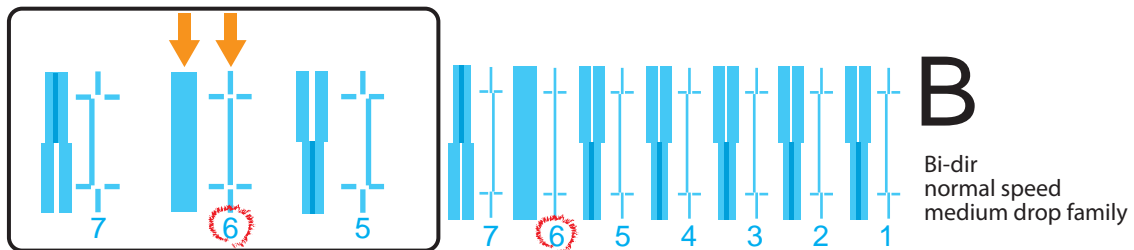
## Rough adjustment pattern

- Press the [Enter] key to carry out printing.
- Look for and mark a number printed under a pattern that has least misalignment.
- "Pattern B: 6" or similar will appear in the display. Use the [+] / [-] key to enter in the display the number that you marked, and press the [Enter] key.
- In the case of the picture below, enter "7", so that the display reads "Pattern B: 7".



## Fine adjustment pattern

- Press the [Enter] key to carry out printing.
- Look for and mark a number printed under a pattern that has least misalignment.
- "Pattern B: 4" or similar will appear in the display. Use the [+] / [-] key to enter in the display the number that you marked, and press the [Enter] key.
- In the case of the picture below, enter "6", so that the display reads "Pattern B: 6".



## \*\*>3: PF Adjust

**\*\*> 3 :**                    **PF Adjust >**

Performs media feed adjustment.

- Required media size: width 210 mm x length 110 mm.
- A ruler is required for this adjustment. Please prepare a commercially available ruler.

When the following defects are found in your prints, they may improve by conducting a paper feed correction.

- Images are overlapping.
- There are white lines in images.

---

### Submenus

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**PF1 :**                    **Initial Print**

 ["PF 1. Initial Print" on page 62](#)

**PF2 :**                    **Initial Change**

 ["PF2. Initial Change" on page 62](#)

**PF3 :**                    **Confirm Print**

 ["PF3. Confirm Print" on page 63](#)

**PF4 :**                    **Micro Print**

 ["PF4. Micro Print" on page 63](#)

**PF5 :**                    **Micro Change**

 ["PF5. Micro Change" on page 64](#)

## Steps

- 1.** Print a "PF1: Initial Print", and measure the distance between the "+" marks with a ruler.
- 2.** Enter the distance measured as the "Initial Change".
- 3.** Determine the feed length for the "PF3: Confirm Print", print it, and measure the distance between the "+" marks with a ruler.
  - Check that there is no deviation from the feed length.
- 4.** Print a "PF4: Micro Print", and find the pattern with the least white streaks and image overlaps.
  - The numeral below that pattern is the micro adjustment value.
- 5.** Enter the micro adjustment value according to the test pattern print in Step 4.

## PF 1. Initial Print

PF1 : Initial Print

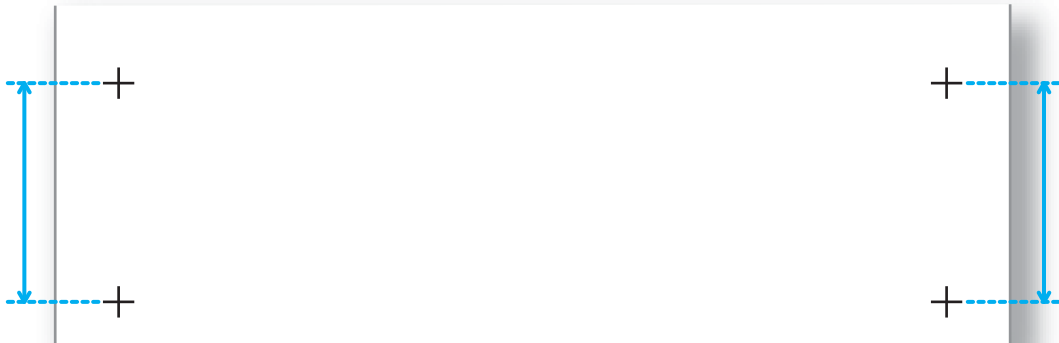
Performs initial adjust print. Enter the "FeedLength", and press the [Enter] key. Print a "+" mark at the beginning, feed the media according to the setting value, and print another "+" mark.

### Setting values

FeedLength : 300 mm

100 mm to <250 mm> to 300 mm  
<> indicates the default setting.

- With a ruler, measure the length between "+" in the pattern.
- In the example below, the measured place is shown in blue dotted lines and arrows (the blue parts are not actually printed).



### Important!

- The maximum setting value for the feed length will vary depending on the settings for "MediaSetting", "Size" and "Length" in the User Type. (The same applies to "Confirm Print".)
- Some media lengths cannot be used.  
For example, if a media has a length of 100 mm or below, "Media size error: Length" will appear on the panel and printing will not be carried out.

## PF2. Initial Change

PF2 : Initial Change

Enter the value that you measured. Provided there is no discrepancy between that value and the value set during initial adjustment printing, press the [Enter] key to set the value.

### Setting values

Init. : 290.0 / 300 mm

<Initial Print menu setting value>  
± 10.0 mm  
<> indicates the default setting.

### PF3. Confirm Print

PF3 : Confirm Print

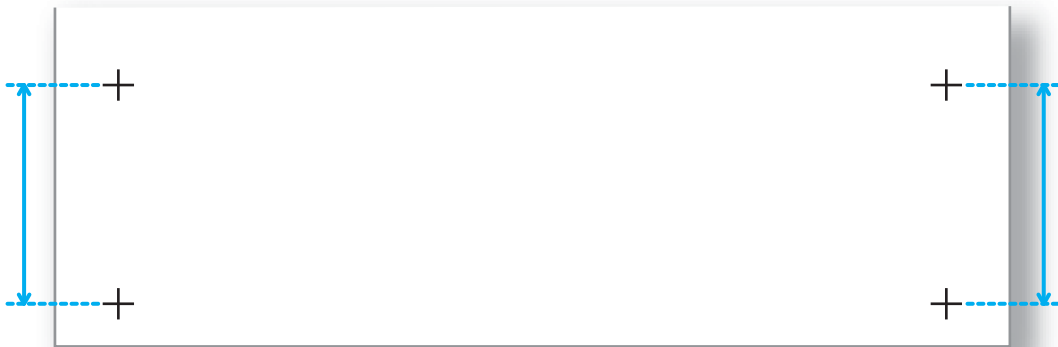
Performs Confirm Print. Enter the "FeedLength", and press the [Enter] key. Print a "+" mark at the beginning, feed the media according to the setting value, and print another "+" mark.

#### Setting values

FeedLength : 300 mm

100 mm to <250 mm> to 300 mm  
<> indicates the default setting.

- With a ruler, measure the length between "+" in the pattern.
- If there is discrepancy between the value set for "FeedLength" and the value measured, carry the procedure out again from 1. "Initial Print". If there is no discrepancy, go to 4. "PF4. Micro Print".
- In the example below, the measured place is shown in blue dotted lines and arrows (the blue parts are not actually printed).



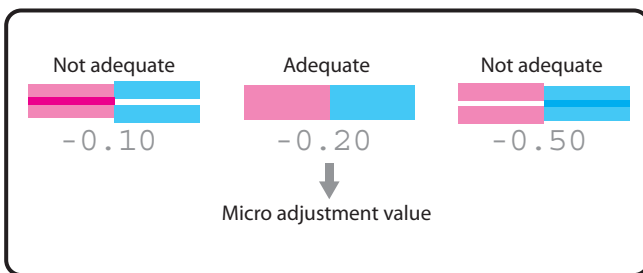
### PF4. Micro Print

PF4 : Micro Print

Performs Micro adjustment print.

Enter the appropriate micro adjustment value according to the test pattern print.

- Observe the pattern and verify the micro adjustment value. In the pattern, look for a place that has least white lines or overlapping in images. The number printed below the pattern is the micro adjustment value.
- Enter the Micro adjustment value according to the test pattern print.



#### Note

The micro adjustment value saved becomes the pattern's standard value.

For example, if "-0.20" is saved as the micro adjustment value and a pattern is printed again, the number below the center pattern changes from "0.00" to "-0.20", and the left edge to "+0.30" and right edge to "-0.70".

## PF5. Micro Change

PF5 :	Micro Change
-------	--------------

Use the [ + ] / [ - ] key to enter the micro adjustment value, and press the [Enter] key.

---

### Setting values

---

Micro :	5.00%
---------	-------

-5.00% to <0.00%> to 5.00%  
<> indicates the default setting.

## \*\*>4: Vacuum Fan

**> 4 :	Vacuum Fan
---------	------------

Sets up vacuum fan operation. It has the role of fixing the media to the table.

- If you are using a thin or delicate media and there is risk of it wrinkling due to the fan, set a lower value for the fan.

---

### Setting values

---

Vacuum Fan :	High
--------------	------

<High> / Medium-Hi / Medium / Low / Off  
<> indicates the default setting.

Vacuum Fan :	Medium - Hi
--------------	-------------

Vacuum Fan :	Medium
--------------	--------

Vacuum Fan :	Low
--------------	-----

Vacuum Fan :	Off
--------------	-----



## \*\*>5: MediaSetting

**\*\*> 5: MediaSetting >**

This is for setting the conditions for placing the media on the table.

### Submenus

**Media 1 : Set Media**

For entering the media width and length, and setting the set position and origin position.

- Carry these out with the media set in place on the table.

**Media 2 : Size**

For entering the media width and length only.

**Media 3 : Location**

For entering the set position only.

- Carry these out with the media set in place on the table.

**Media 4 : Origin**

- If you select "Origin: On", you can then set the origin position (carry this out with the media set in place on the table).
- If you select "Origin: Off", the origin position input menu ("ORG: X:\_\_, Y:\_\_") will not appear. Also, the setting values will not be reflected in printing.

**Media 5 : Detailed-Set**

- If you select "Detailed-Set: On", you will have to input the media width, media length, media set position and origin position after pressing the [Set Media] key each time you set a media on the table. However, you can eliminate the need for such input by pressing the [Cancel] key. If you do so, the values set in the User Type will be used.
- If you select "Detailed-Set: Off", "Ready to Print" will be displayed after pressing the [Set Media] key each time you set a media on the table.  
The currently selected User Type values will be used for the media width and length, media set position and origin position.

## \*\*> 6: Low Speed

**\*\*> 6 : Low Speed**

Use this when you want a slower printing speed.

- It helps to enhance print quality when you print on an uneven surface media or curved object (e.g. golf ball, ballpoint pen, smart phone case).
- If you set anything other than "Off" for this, the "Low speed" indicator will light steady.

### Setting values

<b>Low Speed :</b>	<b>Off</b>	The printing speed will not be lowered. This is the default setting.
<b>Low Speed :</b>	<b>50%</b>	The printing speed will be lowered to 50%.
<b>Low Speed :</b>	<b>25%</b>	The printing speed will be lowered to 25%.

## \*\*>7: Show Edges

**\*\*> 7 : Show Edges**

To check the printing area before printing, LED pointer shows where the image will be printed on the media.

 ["Checking the printing area" on page 45](#)

### Setting values

<b>Show Edges:</b>	<b>Off</b>	LED pointer does not show the printing area. This is the default setting.
<b>Show Edges:</b>	<b>Step</b>	LED pointer shows where the image will be printed on the media and the printer will ask you at each point of corner if the position is OK.
<b>Show Edges:</b>	<b>Auto</b>	LED pointer shows where the image will be printed on the media without checking with the user.

## \*\*>8: Obst. Detect

**\*\*> 8 : Obst. Detect**

Selects the printer operation when the obstacle sensor has detected an obstacle.

### Submenus

<b>Obst. Detect :</b>	<b>Cancel</b>	The printer cancels printing and prompts the obstacle error message. This is the default setting.
<b>Obst. Detect :</b>	<b>Confirm</b>	The printer pauses the printing and allows users to choose from two options; Print Continue or Print Cancel.

### Note

- "Obst. -> PrintContinue"  
Hold the media flat on the table without any warp, fold or curl.  
Press the [Enter] key to resume the job.
- "Obst. -> Print Cancel"  
Press the [Enter] key to cancel the job and prompts the obstacle error message.

## \*\*>9: User Copy

**\*\*> 9 :            User Copy**

This is for copying the currently selected User Type setting into another User Type.

- The items that will be copied are: "Print Mode", "Effect", the "Confirm Print" and "PF Adjust" adjustment values, "Vacuum Fan", "MediaSetting", "Low Speed", "Show Edges" and "Obst. Detect".

### Setting values

**UserCopy : Type \*\* - >            1**

**UserCopy : Type \*\* - >            ALL**

Here you can select the User Type to copy the settings into. If you select ALL, the settings will be copied into all the User Type.

## \*\*>10: Initialization

**\*\*> 10 :            Initialization**

Returns all settings of the currently selected User Type to factory default.

## Set2: Advanced

**Set2 :            Advanced >**

Configures various advanced settings.

### Submenus

**Adv.1 :            Multi Strike**

 ["Adv. 1: Multi Strike" on page 68](#)

**Adv.2 :            Pass Wait**

 ["Adv. 2: Pass Wait" on page 69](#)

**Adv.3 :            Head Travel**

 ["Adv. 3: Head Travel" on page 69](#)

**Adv.4 :            FrtInterlace**

 ["Adv. 4: Front Interlace" on page 69](#)

**Adv.5 :            BtmInterlace**

 ["Adv. 5: BtmInterlace" on page 69](#)

**Adv.6 :            Header Dump**

 ["Adv. 6: Header Dump" on page 70](#)

**Adv.7 :            Spitting**

 ["Adv. 7: Spitting" on page 70](#)

**Adv.8 :            AutoCleaning >**

 ["Adv. 8: Auto Cleaning" on page 71](#)

**Adv.9 :            Multi Layer**

 ["Adv. 9: Multi Layer" on page 72](#)

**Adv.10 :           White Maint.**

 ["Adv.10: White Maintenance" on page 72](#)

\*This only appears when 6-color is set.

## Adv. 1: Multi Strike

Adv.1 : Multi Strike

Sets the number of times to print the same line.

- The display will shift to setting of layer printing number of strikes only when "Strike Cnt" is set to 1 in 6-color configuration.

### Setting values

Strike Cnt : 1 cnt

<1 times> to 9 times  
<> indicates the default setting.

## Layer Multi Str.

Strike Cnt : 1 cnt

The display will shift to layer selection.

### Submenus

Layer Multi Str.1 : Co

 ["Layer Multi Str.1: Co" on page 68](#)

Layer Multi Str.2 : Wh

 ["Layer Multi Str.2: Wh" on page 68](#)

Layer Multi Str.3 : Va

 ["Layer Multi Str.3: Va" on page 68](#)

## Layer Multi Str.1: Co

Layer Multi Str.1 : Co

Sets the number of times to print the same line in color (CMYK) layer.

### Setting values

Color : 1 cnt

<1 times> to 9 times  
<> indicates the default setting.

## Layer Multi Str.2: Wh

Layer Multi Str.2 : Wh

Sets the number of times to print the same line in white layer.

### Setting values

White : 1 cnt

<1 times> to 9 times  
<> indicates the default setting.

## Layer Multi Str.3: Va

Layer Multi Str.3 : Va

Sets the number of times to print the same line in varnish layer (clear topcoat).

### Setting values

Varnish : 1 cnt

<1 times> to 9 times  
<> indicates the default setting.

## Adv. 2: Pass Wait

---

**Adv.2 :**            **Pass Wait**

Sets the waiting time between passes in multi-strike setting and normal printing.

---

Setting values

**Pass Wait :**                            **0.0 sec**

<0.0 sec.> to 5.0 sec.  
<> indicates the default setting.

## Adv. 3: Head Travel

---

**Adv.3 :**            **Head Travel**

Sets up the range that Print head moves while printing.

---

Setting values

**Distance :**                            **Data**

Print head moves the range of the print data width.

**Distance :**                            **Machine**

The print head will travel the maximum distance possible with the printer.

**Distance :**                            **Media**

Print head shifts within the media width. This is the default setting.

## Adv. 4: Front Interlace

---

**Adv.4 :**            **FrtInterlace**

This menu is used to set media edge treatment menu.

---

Setting values

**FrontInterlace :**                            **On**

Off / <On>  
<> indicates the default setting.

## Adv. 5: BtmInterlace

---

**Adv.5 :**            **BtmInterlace**

Sets the BottomInterlace function.

---

Setting values

**BottomInterlace :**                            **On**

Auto / <On>  
<> indicates the default setting.

## Adv. 6: Header Dump

**Adv.6 : Header Dump**

Sets whether to print the following information when printing.  
(Required media size: width 250 mm x length 50 mm.)

- Data header
- Data dot number (printed only when Header Dump setting is ON)
- Printer serial number
- Firmware version

### Setting values

**Header Dump : Off**

Dump data is not printed.  
This is the default setting.

**Header Dump : On**

Dump data is printed after the original image is printed.

**Header Dump : Dump**

Prints only header dump.  
"Data dot number" is not printed.

### Note

- The data will be useful when contacting technical support.
- Performing printing if the printer is connected to PC, the print settings of RIP soft you are using are printed on data header.

## Adv. 7: Spitting

**Adv.7 : Spitting**

Enables or disables the spitting function while printing.

- The display will shift to setting of the pass count only if "On" is set for "Spitting".

### Setting values

**Spitting : On**

Off / <On>  
<> indicates the default setting.

### Note

Spitting is a maintenance operation for preventing clogging of the print head's nozzles. It consumes ink.

## Pass Count

**Spitting : On**

Sets the frequency that the printer spits ink from the print head.

- The head will carry out spitting operation every time it completes the number of passes that you set here.

### Setting values

**Pass Count : 1 cnt**

<1 time> to 999 times  
<> indicates the default setting.

### Important!

**If the number of spitting returns is set high, there is a higher chance of nozzle clogging when printing for a long time. In such a case, print quality cannot be guaranteed.**

## Adv. 8: Auto Cleaning

Adv.8 : AutoCleaning >

Sets the timer to perform auto cleaning during standby, before printing, and during printing.

### Submenus

Auto1 : Waiting Time

 ["Auto1: Waiting Time" on page 71](#)

Auto2 : PrintingTime

 ["Auto2: Printing Time" on page 71](#)

Auto3 : Before Print

 ["Auto3: Before Print" on page 71](#)

### Auto1: Waiting Time

Auto1 : Waiting Time

Sets the timer to perform auto cleaning during standby mode.

#### Setting values

Time : Off

<Off> / 10 min. to 1,440 min.  
<> indicates the default setting.

### Auto2: Printing Time

Auto2 : PrintingTime

Sets the timer to perform auto cleaning while printing.

#### Setting values

Time : Off

<Off> / 5 min. to 180 min.  
<> indicates the default setting.

### Auto3: Before Print

Auto3 : Before Print

Enables or disables auto cleaning before printing.

#### Setting values

Before Print : Off

<Off> / On  
<> indicates the default setting.

## Adv. 9: Multi Layer

**Adv.9 :** **Multi Layer**

Enables or disables to print more than one image data on the same media layer by layer.

### Setting values

**Multi Layer :** **Off**

<Off> / On

<> indicates the default setting.



### Note

- If you select "Off", the printer will ask you to remove media after printing one data and load a new media to print next data.
- If you select "On", just sending the next data to the printer, you can print more than one data on the same area of the media.
  - In the case of "Adjust Print", "PF Adjust" or "Test Print", you will have to set the media in place again even if you select "On" for this.

## Adv.10: White Maintenance

**Adv.10 :** **White Maint.**

Sets up white ink's maintenance operation.

- If you do not usually use white ink for regular printing, set to "Little" to minimize white ink consumption in standby status.
- This submenu will only appear in 6-color configuration.

### Setting values

**White Maint. :** **Normal**

White ink maintenance operation will be carried out at a normal frequency. This is the default setting.

**White Maint. :** **Little**

White ink maintenance operation will be carried out at a lower frequency.



### Note

White ink tends to settle or coagulate inside the print head or ink tubes.

Therefore, the printer regularly discharges a small amount of white ink to maintain the performance, even in standby status.




## Set3: Initial Settings

Set 3 : Init. Settings >

Select a language and unit displayed on the LCD.

### Submenus

Initial1 : Language

 ["Initial1: Language" on page 73](#)

Initial2 : Length

 ["Initial2: Length" on page 73](#)

Initial3 : Remain Ink

 ["Initial3: Remain Ink" on page 74](#)

Initial4 : IP Address

 ["Initial4: IP Address" on page 74](#)


Initial5 : Subnet Mask

 ["Initial5: Subnet Mask" on page 74](#)

Initial6 : Gateway

 ["Initial6: Gateway" on page 75](#)

Initial7 : Alert Buzzer

 ["Initial7: Alert Buzzer" on page 75](#)

### Initial1: Language

Initial1 : Language

Selects a language to be displayed on the operation panel.

#### Setting values

Lang. : エイゴ English

Displays will be in English.  
This is the default setting.

Lang. : ニホンゴ Japanese

Displays the menu items in Japanese.

### Initial2: Length

Initial2 : Length

Selects a length unit to be displayed on the operation panel.

#### Setting values

Length : mm

Displays the length in millimeters (mm).  
This is the default setting.

Length : inch

Displays the length in inches (inch).

### Initial3: Remain Ink

---

**Initial3 :**            **Remain Ink**

Selects how the remaining ink amount will be displayed.

---

Setting values

**Remain Ink :**            **Off**

Remaining ink icons will not be displayed. Slot numbers and remaining ink will be displayed in numerals.

**Remain Ink :**            **On**

Remaining ink icons will be displayed. This is the default setting.

### Initial4: IP Address

---

**Initial4 :**            **IP Address**

Sets the IP address of the printer.

- Use the [+] key to increase a setting value.
- Use the [- ] key to decrease a setting value.
- Press the [Enter] key to confirm your input for a value. The cursor will move on to the next setting value.
- Confirm your input for each value.

---

Setting values

**IP :**            **192.**    **168.**    **1.**    **253**

0.0.0.0 to <192.168.1.253> to 255.255.255.255  
<> indicates the default setting.

### Initial5:Subnet Mask

---

**Initial5 :**            **Subnet Mask**

Sets the subnet mask of the printer.

- Use the [+] key to increase a setting value.
- Use the [- ] key to decrease a setting value.
- Press the [Enter] key to confirm your input for a value. The cursor will move on to the next setting value.
- Confirm your input for each value.

---

Setting values

**MASK :**            **255.**    **255.**    **255.**    **0**

0.0.0.0 to <255.255.255.0> to 255.255.255.255  
<> indicates the default setting.

## Initial6: Gateway

**Initial6 :** Gateway

Sets the gateway.

- Use the [+] key to increase a setting value.
- Use the [-] key to decrease a setting value.
- Press the [Enter] key to confirm your input for a value. The cursor will move on to the next setting value.
- Confirm your input for each value.

### Setting values

**GW :** 192. 168. 1. 254

0.0.0.0 to <192.168.1.254> to  
255.255.255.255

<> indicates the default setting.

## Initial7: Alert Buzzer

**Initial7 :** Alert Buzzer

Selects how to turn off the printer beep sound when an error occurs.

For unattended printing, you can select "Off" setting to avoid continuous buzzer beep.

### Setting values

**Alert Buzzer :** Off

After several beeps, the printer automatically turns off beep sound.

**Alert Buzzer :** On

Press any key on Operation panel to turn off beep sound.  
This is the default setting.

## Set4: Initialize

**Set 4 :** Initialize

Restore the settings of the printer to factory default.

### Submenus

**Init. :** User Type ALL

Initialize the User Type settings (Type1 to Type10) in all the submenus of the "[Set1: User Type](#)".

**Init. :** Adv. Settings

Initialize the settings in all the submenus of the "[Set2: Advanced](#)".

**Init. :** Init. Settings

Initialize the settings in all the submenus of the "[Set3: Initial Settings](#)".

**Init. :** ALL

Initialize the settings of all the menus.

# Menu2: Test Print

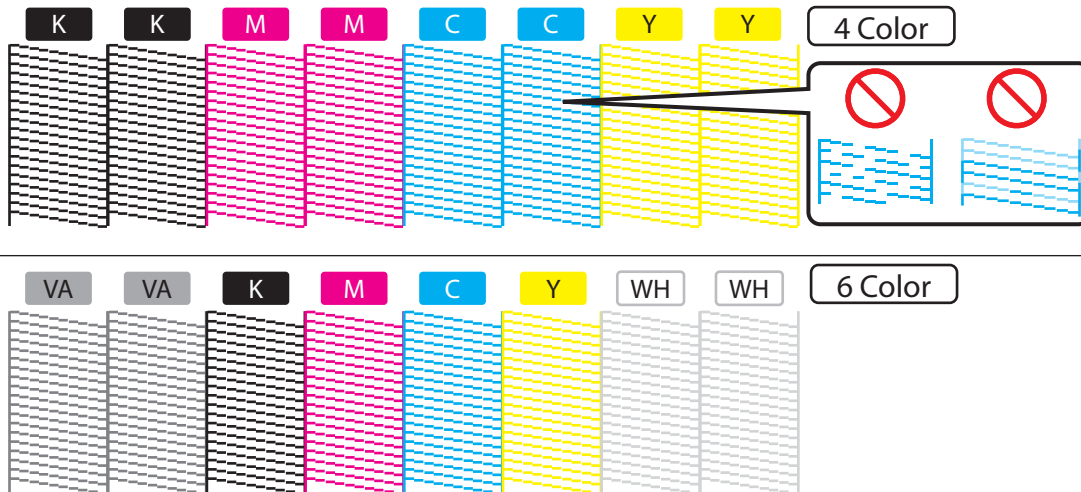
## Test1: Nozzle Check

Test 1: Nozzle Check

It is used to check whether there are any clogged heads, or missing or blurred prints.

(Required media size: width 260 mm x length 35 mm.)

["Nozzle check steps" on page 35](#)



### Note

The printer information (date and time of printing, printer's serial number, firmware version) is printed on the nozzle check pattern.

## Test2: Nozzle Check B

Test 2: Nozzle Check B

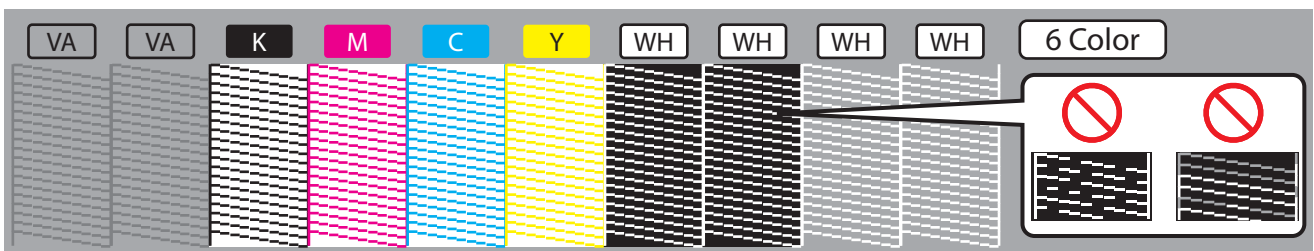
This is nozzle check for white ink.

The background for some of the nozzle check pattern is printed in color so that the nozzle condition is easy to see.

- Part of the background for the white nozzles is black.
- The background of the KCMY nozzles are white.
- For varnish (and part of white) nozzles, the background is not printed.

(Required media size: width 260 mm x length 35 mm.)

["Nozzle check steps" on page 35](#)



### Note

- "Nozzle Check B" will only appear in the menu if 6-color is set.
- The printer information (date and time of printing, printer's serial number, firmware version) is printed on the nozzle check pattern.

## Test3: Mode Print

### Test 3 : Mode Print

Print following settings of the selected User Type configured from the operation panel.

- Used to confirm the following printing conditions.
- Print quality
- Effect
- Fine adjustment value for feed correction.

(Required media size: width 220 mm x length 25 mm.)

2014/05/01 0:00 Fine (720x1440 16Pass Uni)-i-Weave UV/PF Adjust: 0.00%

## Test4: Setup List

### Test 4 : Setup List

Setup list printing is performed.  
Use this to check the current setting contents and the User Type.  
(Required media size: width 420 mm x length 297 mm)

## Setup List

Setup List	
<p>&lt;Information&gt;</p> <p>SerialNo. : ~~~~~</p> <p>Model : i-WeaveUV</p> <p>Memory Size : 20MB</p> <p>Printer : ~~~~~</p> <p>Print : 0 Pass [ ]</p> <p>1 Pass [ ]</p> <p>2 Pass [ ]</p> <p>3 Pass [ ]</p> <p>4 Pass [ ]</p> <p>5 Pass [ ]</p>	<p>&lt;Menu Setup&gt;</p> <p>[1] User Type = Type 1</p> <p>[2] Print Mode = Fine</p> <p>[3] Micro Adjust = 0.00%</p> <p>[4] Vacuum Fan = Medium</p> <p>[5] Media Length = 25mm</p> <p>[6] Media Width = 220mm</p> <p>[7] Start Paper = 0.0mm</p> <p>[8] Start Paper = 0.0mm</p> <p>[9] Start Paper = 0.0mm</p> <p>[10] Start Paper = 0.0mm</p> <p>[11] Start Paper = 0.0mm</p> <p>[12] Start Paper = 0.0mm</p> <p>[13] Start Paper = 0.0mm</p> <p>[14] Start Paper = 0.0mm</p> <p>[15] Start Paper = 0.0mm</p> <p>[16] Start Paper = 0.0mm</p> <p>[17] Start Paper = 0.0mm</p> <p>[18] Start Paper = 0.0mm</p> <p>[19] Start Paper = 0.0mm</p> <p>[20] Start Paper = 0.0mm</p> <p>[21] Start Paper = 0.0mm</p> <p>[22] Start Paper = 0.0mm</p> <p>[23] Start Paper = 0.0mm</p> <p>[24] Start Paper = 0.0mm</p> <p>[25] Start Paper = 0.0mm</p> <p>[26] Start Paper = 0.0mm</p> <p>[27] Start Paper = 0.0mm</p> <p>[28] Start Paper = 0.0mm</p> <p>[29] Start Paper = 0.0mm</p> <p>[30] Start Paper = 0.0mm</p> <p>[31] Start Paper = 0.0mm</p> <p>[32] Start Paper = 0.0mm</p> <p>[33] Start Paper = 0.0mm</p> <p>[34] Start Paper = 0.0mm</p> <p>[35] Start Paper = 0.0mm</p> <p>[36] Start Paper = 0.0mm</p> <p>[37] Start Paper = 0.0mm</p> <p>[38] Start Paper = 0.0mm</p> <p>[39] Start Paper = 0.0mm</p> <p>[40] Start Paper = 0.0mm</p> <p>[41] Start Paper = 0.0mm</p> <p>[42] Start Paper = 0.0mm</p> <p>[43] Start Paper = 0.0mm</p> <p>[44] Start Paper = 0.0mm</p> <p>[45] Start Paper = 0.0mm</p> <p>[46] Start Paper = 0.0mm</p> <p>[47] Start Paper = 0.0mm</p> <p>[48] Start Paper = 0.0mm</p> <p>[49] Start Paper = 0.0mm</p> <p>[50] Start Paper = 0.0mm</p> <p>[51] Start Paper = 0.0mm</p> <p>[52] Start Paper = 0.0mm</p> <p>[53] Start Paper = 0.0mm</p> <p>[54] Start Paper = 0.0mm</p> <p>[55] Start Paper = 0.0mm</p> <p>[56] Start Paper = 0.0mm</p> <p>[57] Start Paper = 0.0mm</p> <p>[58] Start Paper = 0.0mm</p> <p>[59] Start Paper = 0.0mm</p> <p>[60] Start Paper = 0.0mm</p> <p>[61] Start Paper = 0.0mm</p> <p>[62] Start Paper = 0.0mm</p> <p>[63] Start Paper = 0.0mm</p> <p>[64] Start Paper = 0.0mm</p> <p>[65] Start Paper = 0.0mm</p> <p>[66] Start Paper = 0.0mm</p> <p>[67] Start Paper = 0.0mm</p> <p>[68] Start Paper = 0.0mm</p> <p>[69] Start Paper = 0.0mm</p> <p>[70] Start Paper = 0.0mm</p> <p>[71] Start Paper = 0.0mm</p> <p>[72] Start Paper = 0.0mm</p> <p>[73] Start Paper = 0.0mm</p> <p>[74] Start Paper = 0.0mm</p> <p>[75] Start Paper = 0.0mm</p> <p>[76] Start Paper = 0.0mm</p> <p>[77] Start Paper = 0.0mm</p> <p>[78] Start Paper = 0.0mm</p> <p>[79] Start Paper = 0.0mm</p> <p>[80] Start Paper = 0.0mm</p> <p>[81] Start Paper = 0.0mm</p> <p>[82] Start Paper = 0.0mm</p> <p>[83] Start Paper = 0.0mm</p> <p>[84] Start Paper = 0.0mm</p> <p>[85] Start Paper = 0.0mm</p> <p>[86] Start Paper = 0.0mm</p> <p>[87] Start Paper = 0.0mm</p> <p>[88] Start Paper = 0.0mm</p> <p>[89] Start Paper = 0.0mm</p> <p>[90] Start Paper = 0.0mm</p> <p>[91] Start Paper = 0.0mm</p> <p>[92] Start Paper = 0.0mm</p> <p>[93] Start Paper = 0.0mm</p> <p>[94] Start Paper = 0.0mm</p> <p>[95] Start Paper = 0.0mm</p> <p>[96] Start Paper = 0.0mm</p> <p>[97] Start Paper = 0.0mm</p> <p>[98] Start Paper = 0.0mm</p> <p>[99] Start Paper = 0.0mm</p> <p>[100] Start Paper = 0.0mm</p>

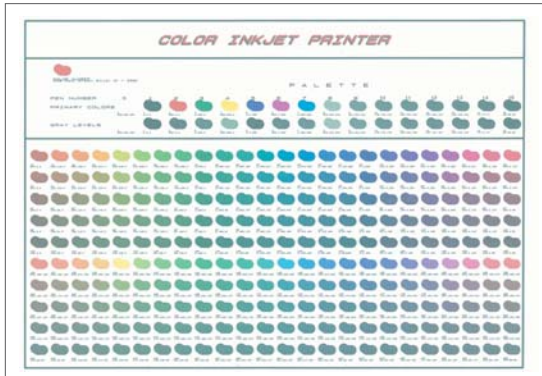
## User Type List

<User type List>										
User Type	Type 1	Type 2	Type 3	Type 4	Type 5	Type 6	Type 7	Type 8	Type 9	Type10
Print Mode	Fine	Fast	Fine	Fine	Fine	Fine	Fast	Fine	Fine	Fine
Print Mode>Effect	i-Weave UV	i-Weave UV	i-Weave UV	i-Weave UV	i-Weave UV	i-Weave UV	i-Weave UV	i-Weave UV	i-Weave UV	i-Weave UV
PF>Initial Adjust	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm
PF>Micro Adjust	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Vacuum Fan	Medium	Medium	High	Medium	Low	High	High	Low	High	High
Media>Size Width	420	420	460	420	460	420	420	420	420	420
Media>Size Length	297	297	297	297	297	297	297	297	297	297
Media>Location	X: 0.0mm/Y: 0.0mm	X: 0.0mm/Y: 0.0mm	X: 0.0mm/Y: 0.0mm	X: 0.0mm/Y: 0.0mm	X: 0.0mm/Y: 0.0mm	X: 0.0mm/Y: 0.0mm	X: 0.0mm/Y: 0.0mm	X: 0.0mm/Y: 0.0mm	X: 0.0mm/Y: 0.0mm	X: 0.0mm/Y: 0.0mm
Media>Origin	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Media>Detailed-Set	On	Off	Off	Off	Off	Off	Off	Off	Off	Off
Low Speed	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off

# Test5: Palette

**Test 5: Palette**

Palette print is executed for the color demonstration.  
(Required media size: width 210 mm x length 210 mm.)



# Menu3: Maintenance

## Mnt.1: Cleaning

Mnt. 1 : Cleaning

Perform Head cleaning.

### Submenus

Time : Short

Consumes less ink than Normal cleaning.

Time : Normal

Perform Normal cleaning if nozzle clogging is found in the nozzle check print.

Time : Long

Perform Long cleaning if nozzle clogging still persists after performing Normal cleaning. It consumes more ink than Normal cleaning.


Time : LittleCharge

Provide higher cleaning effect than Long cleaning, but it also consumes more ink.

Time : InitialCharge

Provide higher cleaning effect than Little Charge, but it also consumes more ink.

- When "Empty WasteInk ->E" appears, empty out the waste ink and press the [Enter] key.

 ["Drain waste fluid into container" on page 93](#)

## Mnt.2: ResetWasteInk

Mnt. 2 : ResetWasteInk

This resets the waste ink counter to zero.

 ["Resetting waste ink counter" on page 94](#)

## Mnt.3: CR Maintenance

Mnt. 3 : CR Maintenance

Use this for replacing absorption material for the flushing box and the cleaning wiper.

 ["Replacing absorption material for the flushing box" on page 108](#)

 ["Replacing the cleaning wiper" on page 111](#)

### Submenus

CR Maint. : Start

Press the [Enter] key to replace the absorption material for the flushing box.

- The carriage moves to the center of the printer.
- The cleaning wiper moves upward.

CR Maint. : End

After the replacement is complete, press the [Enter] key.

- The printer moves the carriage and the cleaning wiper back to each original position.

## Mnt.4: UV Scan

Mnt. 4 : UV Scan >

Performs further UV curing.

Use this when you want to promote ink curing by applying additional UV light.

### Submenus

UV Scan1 : Start

 ["UV Scan1: Start" on page 80](#)

UV Scan2 : Scans

 ["UV Scan2: Scans" on page 81](#)

UV Scan3 : Post Cure

 ["UV Scan3: Post Cure" on page 81](#)



### Note

The range over which the UV scanning is executed will depend on the current settings for "Size" and "Location" in the "MediaSetting" User Type.

### UV Scan1: Start

UV Scan1 : Start

Performs further UV curing when needed.

When the media is not loaded, "No Media" is displayed, and the screen returns to the previous screen.

- Application is canceled when the [Cancel] key is pressed for 2 seconds and more while applying UV light.

### Setting

UV Scan1 : Start

Press the [Enter] key to start.



## UV Scan2: Scans

UV Scan2 : Scans

Sets the number of times to apply UV light on the area.

- The settings here are reflected on "UV Scan1: Start" and "UV Scan3: Post Cure" only.

### Setting

UV Scans: 4

2 / <4> / 8 / 16

< > indicates the default setting.

## UV Scan3: Post Cure

UV Scan3 : Post Cure

When it is set to "On", the printer automatically performs post curing to apply additional UV light after printing.

### Setting

Post Cure: Off

<Off> / On

< > indicates the default setting.

## Mnt.5: Ink Discharge

Mnt. 5 : Ink Discharge

Discharges the ink in the printer. This operation is performed before moving the printer.


 ["Transporting" on page 114](#)

## Mnt.6: Daily Maintenance

Mnt. 6 : Daily Maint.

Use this menu in following cases:

- If the nozzle missing still persists after performing head cleaning.
- If you perform printing all day without entering to sleep mode and you need to perform daily maintenance.

 ["Clean daily maintenance parts" on page 105](#)

### Submenus

Daily Maint. : Start

Press the [Enter] key to start maintenance.

Daily Maint. : End

After the maintenance is complete, press the [Enter] key.

- The printer automatically performs the Short cleaning.



To perform daily maintenance after using the printer for the day, see ["Daily Maintenance" on page 95](#).

## Menu4: Printer Status

### Status1: Ink

Status 1 : Ink

Displays the various information about ink cartridge.

#### Submenus

1 2 3 4 : 1 0 0 / 9 0 / 8 0 / 7 0

Displays the remaining ink in Slots 1 to 4, as percentages of the full levels.

5 6 : 1 0 0 / 9 0

Displays the remaining ink in Slots 5 and 6.

### Status2: Lifetimes

Status 2 : Lifetimes

Displays the operational life time of each part.

- The lifetime of each part is indicated by the asterisks (Maximum 5 asterisks: 100% left). As the part deteriorates, the number of asterisks decreases one by one (20%).
- The part should be changed when all of the asterisks have disappeared, and "Change" is displayed. Contact your local MUTOH dealer to ask for replacing parts.
- After "Change" appears, "Life Times [Pump]" or a similar message will be displayed when you are not in this menu. You can delete this message by pressing the [Cancel] key.

#### Submenus

Head : E\*\*\* F

Displays the service life for the print head.

Pump: E\*\*\* F

Displays the service life for the pump.

CR Motor : Change

Displays the service life for the CR motor.

PF Motor : E\*\*\*\* F

Displays the service life for the PF motor.

CPump : E\*\*\* F

Displays the service life for the Circulation pump.

UV Lamp : E\*\*\* F

Displays the service life for the UV lamp.

WasteInkTank : E\*\*\* F

Displays the service life for the waste ink tank.

## Status3: Job Status

Status 3 : Job Status

Displays various information of previous print.

### Submenus

JobStatus : Canceled

Displays if the print is completed.

- When the print is completed: [Completed]
- When the print is canceled: [Canceled]

ToDoLength : xxx.x m

Displays the total length of print data (media feeding direction).

Done : xxx.x m

Displays the printed length.

Remain : xxx.x m

Displays the remaining length of print data.



### Note

- The values displayed in this function are just standard values, not guarantee the accuracy.
- If the print data includes no length data, all information will be displayed as "0".
- This function is to check the information of print data with the print operation is completed. For the details on data while printing, please refer to the ["What you can do on the operation panel during printing"](#) of ["Menu3: Job Status" on page 44](#)

## Status4: Version

Status 4 : Version

Displays the versions of the firmware.

### Submenus

Version: x. xx

## Status5: SerialNo.

Status 5 : SerialNo.

Displays the printer's serial number.

### Submenus

SerialNo. : \*\*\*\*\*

## Menu5: Sleep Mode

### SleepMode1: Start

SleepMode 1 : Start

Activate Sleep Mode.

Make sure to follow the instructions on the operation panel to perform daily maintenance.

 ["Sleep Mode" on page 27](#)

### SleepMode2: SetTimer

SleepMode 2 : SetTimer

Sets the timer to perform head cleaning in the sleep mode.

Setting values

CleaningTimer : Off

<Off> / 1 / 2 / 3 / 4 / 5 / 6 / 9 / 12 / 18 / 24 hours

<> indicates the default setting.

If you set an interval, the display will shift to "SleepMode 1: Start".

#### Important!

**In following cases, the printer does not perform head cleaning by the timer in sleep mode.**

- Front cover is open.
- The waste fluid tank is full.
- There is little remaining ink in the ink cartridge (or no ink).
- The ink cartridge has been removed.
- The inserted ink cartridge is not the genuine ink cartridge, etc.

**If one of the above conditions occurs during Head cleaning, cleaning is stopped.**

**When the printer returns to a normal state, Head cleaning is restarted.**

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# Maintenance

To maintain the performance of this product, please conduct maintenance by yourself.  
The types of maintenance are shown next.

Before and after daily operation	<a href="#">"Wearing the gloves and goggles" on page 87</a> <a href="#">"Agitating ink cartridges" on page 88</a> <a href="#">"Nozzle check and cleaning" on page 35</a>
After daily operations	<a href="#">"Daily Maintenance" on page 95</a>
Based on your usage condition	<a href="#">"Head cleaning" on page 103</a> <a href="#">"Replacing ink cartridge" on page 91</a> <a href="#">"Emptying waste ink tank" on page 92</a> <a href="#">"Clean daily maintenance parts" on page 105</a> <a href="#">"Replacing absorption material for the flushing box" on page 108</a>
Monthly	<a href="#">"Inside cleaning" on page 107</a>
Every six months	<a href="#">"Replacing the cleaning wiper" on page 111</a>

## Important!

**In following cases, please contact your local MUTOH dealer to request service personnel.**

- **The same system error repeatedly occurs.**
- **The message to notify the life of motor, pump, or UV lamp is displayed.**

 ["Messages and Error Messages" on page 120](#)

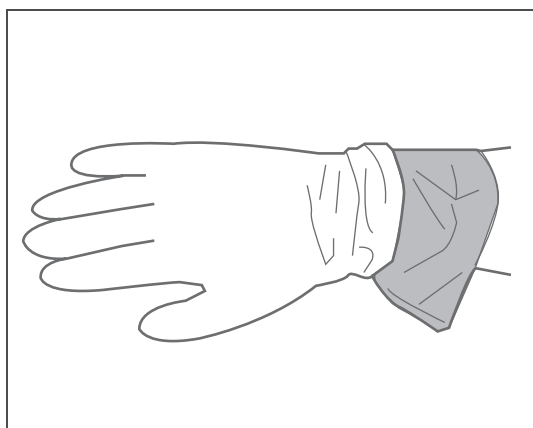
## Wearing the gloves and goggles

Skin or eye contact with UV curable ink may cause skin inflammation or allergic reaction. Wear protective gloves, goggles and/or face shield, and clothing while using of the printer.

Especially when performing any of the following operations, be sure to wear the supplied gloves (or solvent resistant gloves) and goggles.

- "Agitating ink cartridges" on page 88
- "Replacing ink cartridge" on page 91
- "Emptying waste ink tank" on page 92
- "Daily Maintenance" on page 95
- "Clean daily maintenance parts" on page 105
- "Replacing absorption material for the flushing box" on page 108
- "Replacing the cleaning wiper" on page 111

## How to wear the supplied gloves



Wear the rubber gloves (white) over the plastic gloves (pink).

### CAUTION



**Do not touch uncured UV ink with bare hands.**



- **If glove becomes contaminated with ink, replace it with new.**
- **If protective clothing becomes contaminated with ink, immediately remove and wash for re-use.**
- **If ink gets on skin, immediately wash with soap and plenty of water for 15 minutes. Seek medical advice/attention if irritation or inflammation are present.**
- **If ink gets in eyes, flush eyes with plenty of water for 15 minutes and seek medical advice/attention immediately.**
- **If swallowed, rinse mouth immediately and do not induce to vomiting. Seek medical advice/attention.**

# Agitating ink cartridges

## Agitating ink cartridges

Agitate the ink at the following times to prevent it from settling out and/or coagulating:

- Before installing new ink cartridge
- When any of the messages below appears

### 6-color configuration:

Shake W Cartridge

Agitate the White (Wh) ink cartridge.

- Displays every 12 hours.

Shake KMCY Cartridge

Agitate the Black (K), Magenta (M), Cyan (C), and Yellow (Y) ink cartridges.

- Displays every 72 hours.

Shake KMCYW Cart.

Agitate the Black (K), Magenta (M), Cyan (C), Yellow (Y), and White (Wh) ink cartridges.

### 4-color configuration:

Shake ALL Cart.

Agitate the Black (K), Magenta (M), Cyan (C), and Yellow (Y) ink cartridges.

- Displays every 72 hours.

#### Important!

- **Agitate the ink cartridges periodically. Otherwise, the ink inside the cartridges settles or coagulates and may cause poor print quality or a malfunction.**
- **You should agitate the ink cartridges when the message appears. Otherwise, for 12 hours after the message appears, you will repeatedly have to wait a certain time before you can print. When 12 hours have passed, the printer will not print any data. In either case, you can restore the printer to normal condition by agitating the ink cartridges.**

#### CAUTION

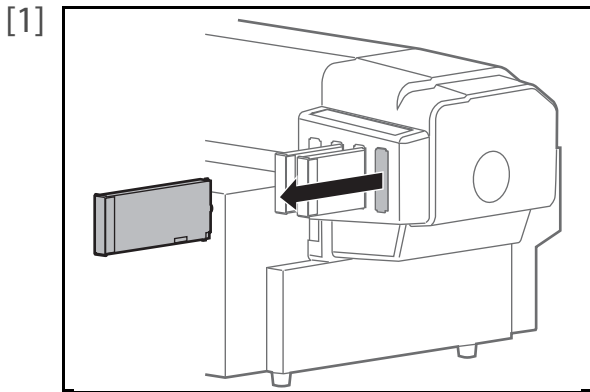


**Skin or eye contact with UV curable ink may cause skin inflammation or allergic reaction.**

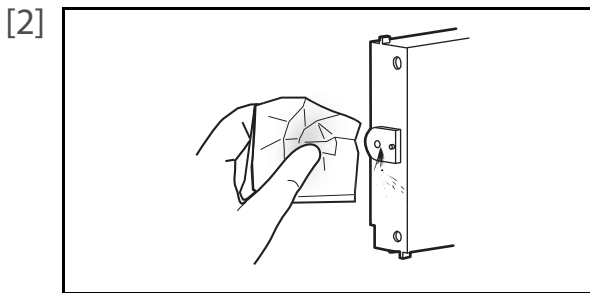
For this operation, be sure to wear the supplied gloves (or solvent resistant gloves) and goggles to prevent ink from contacting with your eyes or skin.



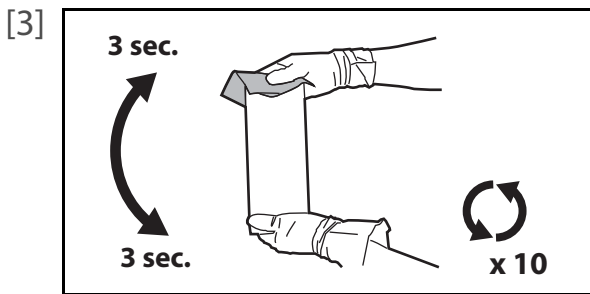
## Steps



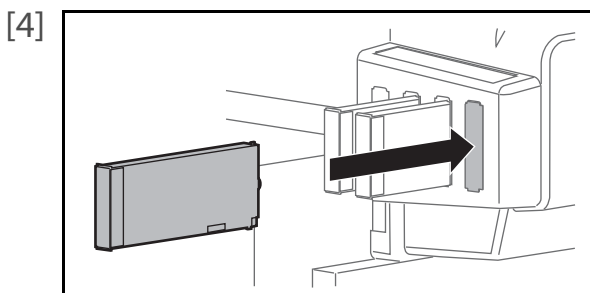
- Check the power is ON.
- Wear the supplied gloves and remove ink cartridges from Ink cartridge slots.



Using the paper towel provided with the printer to wipe off the ink attached to the printer plug of Ink cartridge.



- Place the lint-free cloth over the ink plug of the cartridge, turn the plug up and maintain vertical position for three seconds.
- Rotate cartridge upside down (plug facing down) and hold for three seconds.
- Repeat it 10 times.



Re-insert the ink cartridges into Ink cartridge slots.

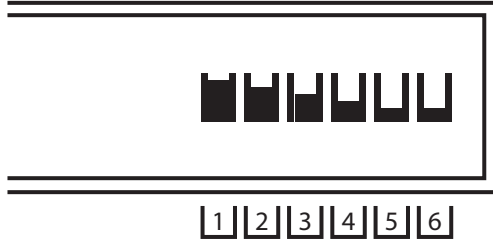
**Important!**

**Make sure you insert the ink cartridges into the original slots. Even when you have the same color ink cartridges, do not switch and insert them into different slots.**

# Checking ink level and replacing ink cartridge

## Checking ink level

[1]



Check the remaining ink icons.

- To do a more detailed check, press the [Menu] key.



You can alternatively check the remaining ink amount via the VSM's remote panel.

 ["Launching VSM" on page 19](#)

[2]



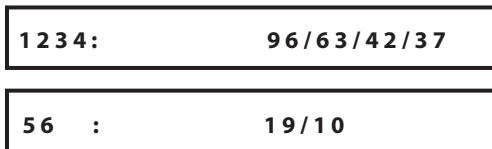
- Press the [-] key until "Menu 4: PrinterStatus >" appears.
- Press the [>] key.

[3]



Press the [Enter] key.

[4]



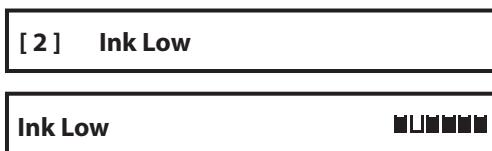
- Displays the remaining ink in Slots 1 to 4, as percentages of the full levels.
- Press the [-] key to flip to the display for Slots 5 and 6.

## When cartridge is nearly out of ink

When the ink level becomes low, the error LED on the operation panel flashes with beep sounds.

### Steps

[1]



Press the [Enter] key.

- The buzzer stops.
- In the icons shown on the left, the Slot 2 cartridge is nearing replacement time.

[2] Prepare an ink cartridge to replace.

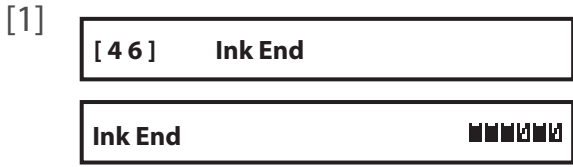


Sleep mode continues after stopping the buzzer.

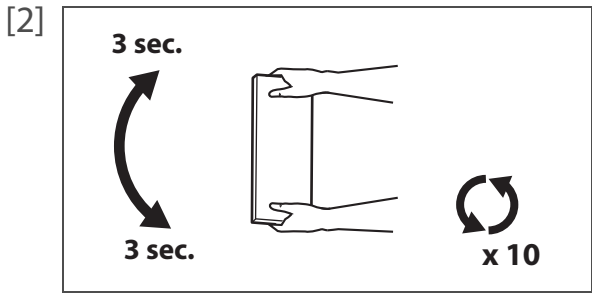
# Replacing ink cartridge

When a cartridge is out of ink, the error LED on the operation panel flashes with beep sounds. The printer pauses printing. After replacing with the new ink cartridge, it resume printing.

## Steps



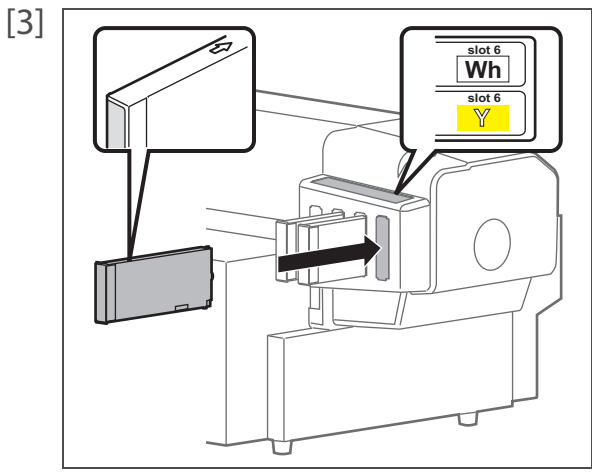
- Press the [Enter] key.
- The buzzer stops.
  - In the icons shown on the left, the Slot 4 and 6 cartridges need replacing.



- Make sure you agitate the ink cartridge after you unpack it.
- Turn the ink plug upward and wait for three seconds.
  - Next, turn the ink plug downward and wait for three seconds.
  - Repeat that 10 times.

 **Note**

When replacing varnish ink, you do not have to agitate it.



- Remove the empty ink cartridge and insert the new one.
- Make sure to match the ink cartridge color with the label of this product.
  - The arrow on the cartridge should face up.
  - Insert each cartridge to firmly seat it into each slot.

 **Important!**

- **Do not replace ink cartridge when the power of this product is OFF. Ink level cannot be detected correctly.**
- **If there is no ink cartridge for replacement at hand, leave the empty ink cartridge inserted in the printer. Leaving the printer with the ink cartridge removed may cause the print head to clog.**
- **If ink cartridge is moved from cold to warm place, leave it at least three hours.**

 **WARNING**

- **Leave ink cartridges away from fire or high temperature objects.**  
It may cause fire.

 **Note**

Sleep mode continues after stopping the buzzer.

# Emptying waste ink tank

## Emptying waste ink tank

When a certain amount of waste fluid has been collected in the waste ink tank, the error LED on the operation panel of this product turns on with beep sounds.

Drain all waste ink in the waste ink tank into a container (e.g. PET bottle). After emptying the waste ink tank, reset the waste ink counter.

### Display messages

**NearFullWasteInkTank**

The waste ink tank is about to become full. Mutoh recommends that you empty the waste ink tank before it is completely full.

- Printing or other operation will continue while you do this.

**Full WasteInkTank**

The waste ink tank has become full. Empty the waste ink tank immediately.

- Printing or other operation will stop. It will resume when you have carried out "ResetWasteInk".

### **WARNING**



#### **Do not mix waste ink with any other chemicals, even in a small amount.**

If mixed with other chemicals (e.g. oxidizing agent), it may produce heat. Before pouring waste ink into a container, make sure

- the container is empty.
- inside the container is completely dry.

### **CAUTION**



#### **Skin or eye contact with UV curable ink may cause skin inflammation or allergic reaction.**

For this operation, be sure to wear the supplied gloves (or solvent resistant gloves) and goggles to prevent ink from contacting with your eyes or skin.

### **Important!**

**Empty the waste ink tank before moving the printer.**

**If ink splashes inside the waste ink tank while being moved, it can cause damage.**

## 1. Drain waste fluid into container

[1] Prepare a container like PET bottle to drain the waste ink.

### Important!

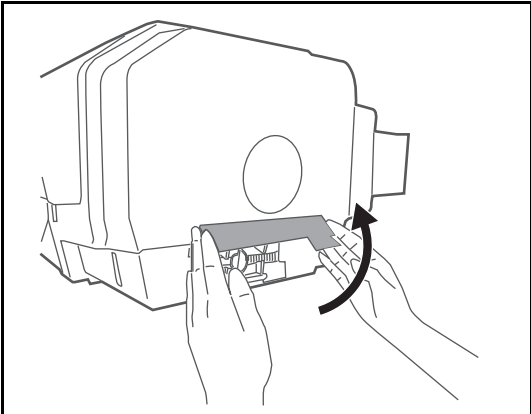
The capacity of waste ink tank is 1,400 ml. Make sure to prepare a container that has enough capacity when discharging waste ink.

### CAUTION

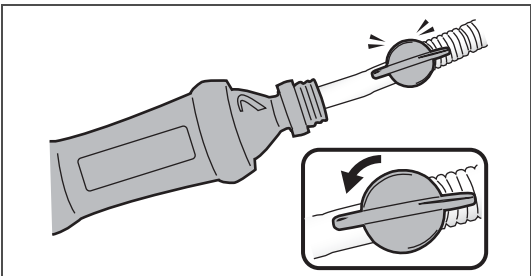


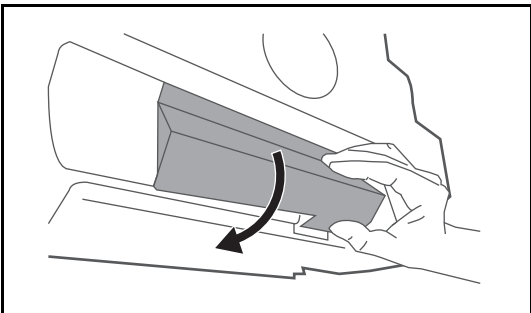
**Make sure to completely empty the waste ink tank.**

If not, the waste ink counter cannot count the waste ink level correctly and it can lead waste ink leaks inside or from the printer.

[2]  Hold both sides of the light-blocking cover, and open it.

[3]  Pull out the waste ink tube.

[4]  • Insert the waste ink tube into a container.  
• Turn the hand valve as shown in the figure left to drain the waste ink.  
• Drain waste ink into the container.  
• After emptying the waste ink tank, return the hand valve to the original position.  
• Return the waste ink tube to the original position.

[5]  While inserting the light-blocking cover's knob into the printer's slot, close the light blocking cover.

 Important!

Be sure to close the light-blocking cover.  
Otherwise, the ink inside the hand valve is cured and the waste ink cannot be discharged.

 WARNING



- You are obligated to properly dispose of waste fluid from the printer in compliance with Wastes Disposal and Public Cleansing Act and local ordinances. Delegate disposal to an industrial waste disposal contractor.
- Waste fluid from this product is harmful to aquatic organisms. Avoid the waste fluid from out flowing to sewage or natural water systems.
- Keep out of direct sunlight and store the waste ink container in a cool, dark place.
- Do not mix waste ink with any other chemicals, even in a small amount.

## 2. Resetting waste ink counter

---

 CAUTION



**Before resetting the counter, make sure the waste ink tank is completely empty.**  
If not, it can lead waste ink leaks inside or from the printer.

[1]

Menu 3 : Maintenance >

- Press the [Menu] key.
- Press the [-] key until "Menu 3: Maintenance >" appears.
- Press the [>] key.

[2]

Mnt. 2 : ResetWasteInk

- Press the [-] key until "Mnt.2: ResetWasteInk" appears.
- Press the [Enter] key.

[3]

Initial. Parameter?

Press the [Enter] key.

\*\* Initializing \*\*

The waste ink counter is being reset.  
• The waste ink tank has been emptied.

 Note

- "ResetWasteInk" can alternatively be carried out via "Maintenance" in the printer driver's "Utility" section.
- It can also be carried out via the VSM's remote panel.
- To carry out [ResetWasteInk] during printing, see ["Menu4: Reset Waste Ink" on page 44](#) under ["What you can do on the operation panel during printing"](#).

# Daily Maintenance

## Flow of Daily Maintenance

This printer requires daily maintenance.

Follow the steps below to perform daily maintenance after you finish your printing for the day.

- "Perform Daily Maint." is prompted on the operation panel after certain period of time from the previous daily maintenance.  
Make sure to perform daily maintenance when prompted.

### Important!

**If you perform printing all day without entering to sleep mode, make sure to perform daily maintenance once a day.**

**Failure to perform daily maintenance may affect print quality or result in damage to the printer.**

**To perform daily maintenance, go to "Mnt.9: Daily Maint." on the operation panel.**

 ["Mnt.6: Daily Maintenance" on page 81](#)

 ["Clean daily maintenance parts" on page 105](#)

Prepare required items for Daily Maintenance

Leave the printer in Sleep Mode

Clean the UV Lamp

Moisten the surface of print head nozzles

Clean the print head circumference

Clean the cleaning wiper and the circumference of the cap

The printer automatically performs the Short cleaning

Daily Maintenance completed !

## Preparing for Daily Maintenance

### Required Items

[1] Prepare the following items to perform daily maintenance.



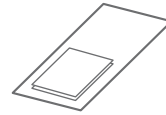
Plastic gloves



Rubber gloves



Protective goggles



Paper towel  
or Polyester knit wiper



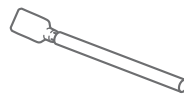
Dropper



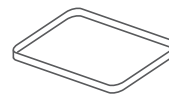
Dedicated maintenance  
cleaner



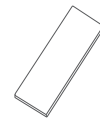
Plastic cup



Cleaning stick



Tray

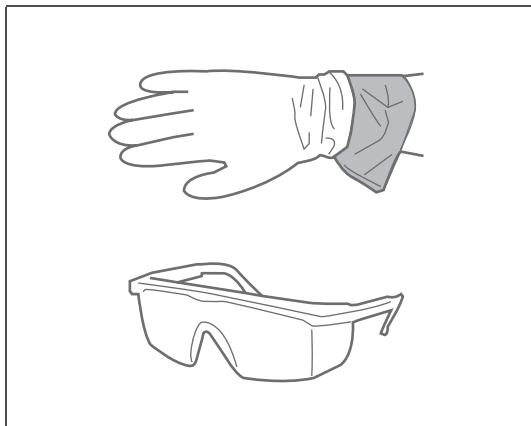


Scraper

### Important!

- Use a paper towel supplied with the printer or optional polyester knit wiper. **DO NOT** use a tissue. Lints or flakes on tissue may cause damage to the print head.
- **DO NOT** use non-dedicated maintenance cleaner.
- If you want to purchase the optional maintenance cleaner, contact your local Mutoh dealer or nearest Mutoh sales office.

[2]



- Wear the rubber gloves (white) over the plastic gloves (pink).
- Wear protective goggles.

### CAUTION

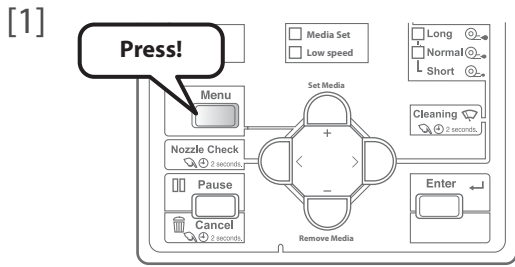


**Skin or eye contact with UV curable ink may cause skin inflammation or allergic reaction.**

For this operation, be sure to wear the supplied gloves (or solvent resistant gloves) and goggles to prevent ink from contacting with your eyes or skin.



## Entering to sleep mode



Press the [Menu] key.



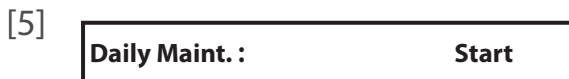
Press the [-] key until "Menu5: Sleep Mode >" appears.  
• Press the [>] key.



Press the [Enter] key.



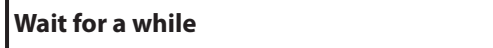
Press the [Enter] key.



Press the [Enter] key.



The message on the left will appear.  
• Remove the media and the jig on the table, and then press the [Enter] key.



• The table, carriage and cleaning wiper move to gain access to daily maintenance.



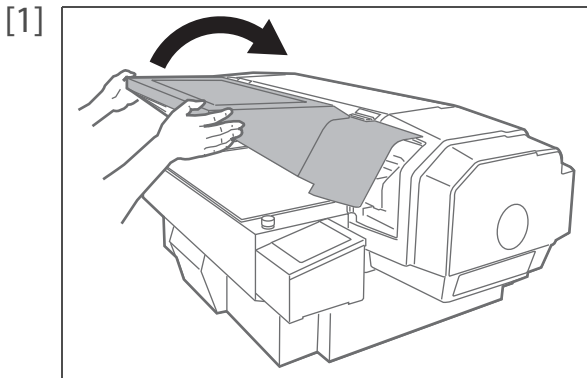
The message on the left will appear.  
• You can start maintenance.



**Make sure to complete this maintenance within 5 minutes while the printer is in Daily maintenance state.**

## Performing Daily Maintenance

### 1. Cleaning of UV Lamp



Open the front cover slowly, holding it by the places shown in the picture and using both hands.

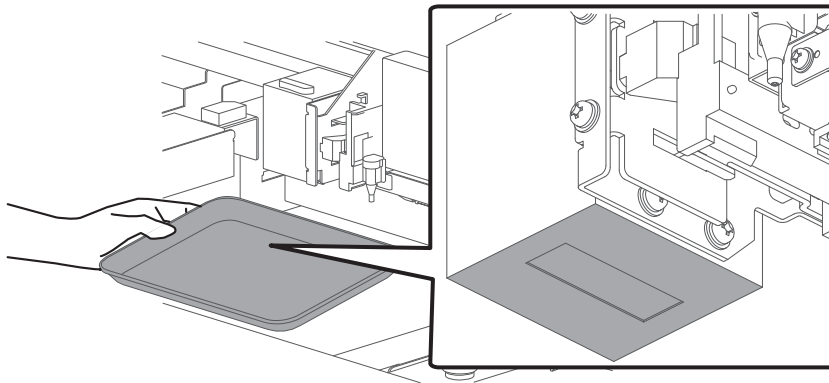
- Fully open the front cover.



**Do not place any object inside the printer.**

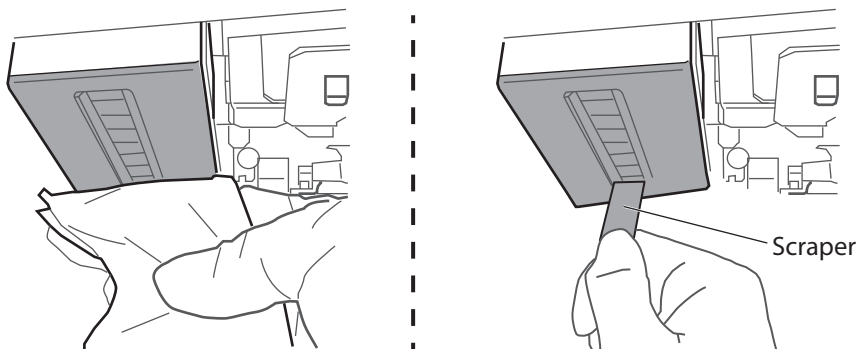
[2] Look in the stainless tray to check for ink or dust on the UV lamp.

- If no ink or dust is found on the UV lamp, skip this step and move on to "[Moistening the surface of print head nozzles](#)" on page 99.



[3] If any ink or dust is found, using a paper towel, remove ink and dust from the UV lamp.

- If ink deposits cannot be removed with the paper towel, use the scraper supplied with the printer.
- Press the scraper on the ink deposits with a slight angle and scrape off the ink deposits.
- Use the paper towel to clean the ink scraped from the lamp.



- **Make sure to use the scraper supplied with the printer.**
- **Never use the corner of the scraper. It can damage the UV lamp.**
- **When using the scraper, do not apply too much pressure to the lamp. It can damage the UV lamp.**

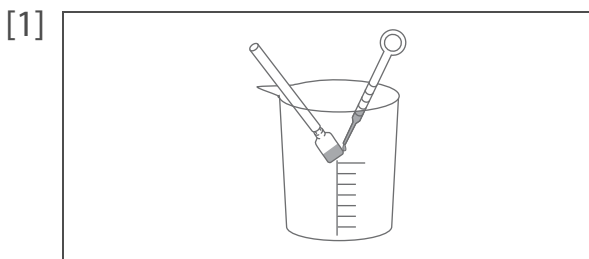
[4] Next moisten the surface of print head nozzles.

## 2. Moistening the surface of print head nozzles

### Important!

During cleaning, please note the followings:

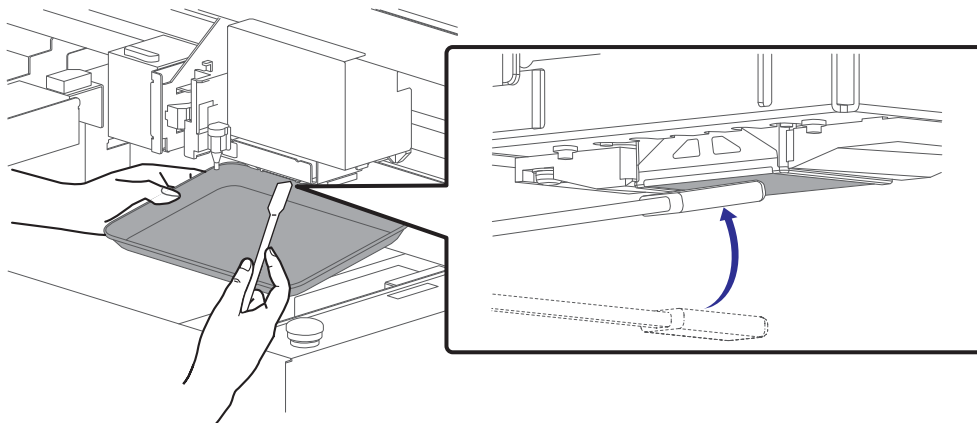
- Always follow this steps to perform daily maintenance.
- When moistening the surface of nozzles, do not use the cleaning stick already used to clean the print head circumference, cleaning wiper or cap circumference. Doing so may result in damage to the print head.
- Always use a new cleaning stick and dampen it with dedicated maintenance cleaner. DO NOT use non-dedicated maintenance cleaner. It may cause nozzle clogging.
- Do not touch the tip of a cleaning stick with fingers. If sebum is adhered, it can cause damage to the print head.
- Do not reuse a cleaning stick. Dusts can adhere causing damage to the print head.



- Put a cleaning stick in the plastic cup.
- Use the dropper to dampen the swab of cleaning stick with dedicated maintenance cleaner. (Amount used: 0.5 ml)

[2] Look in the stainless tray to check the bottom of the carriage. Using the cleaning stick dampened with the maintenance cleaner, moisten the surface of the print head nozzles.

- Lightly touch with the cleaning stick to moisten the nozzle surface.
- Repeat it a couple of times to moisten the entire nozzle surface.

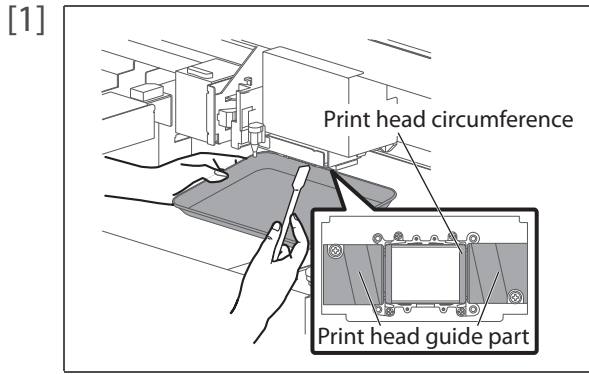


### Important!

- DO NOT rub into the nozzle surface. It can cause damage to the print head.
- If the entire nozzle surface has been moistened, you can stop it.

[3] Next clean the print head circumference.

### 3. Cleaning of print head circumference



Look in the tray to check the bottom of the carriage. Check if dusts and ink deposit are adhered.

- Print head circumference (silver metal part)
- Print head guide part (black plastic part)

**Important!**

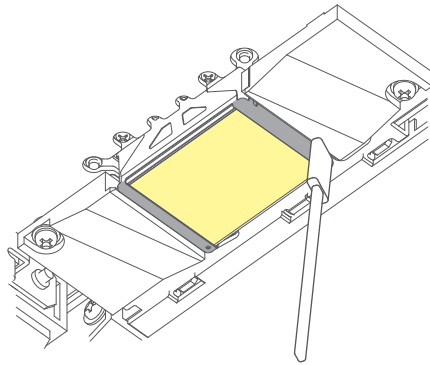
**If maintenance cleaner is splashed onto the printer, use a paper towel to wipe it off.**

[2] Use the cleaning stick to remove the ink and dust on the circumference of the bottom of the carriage.

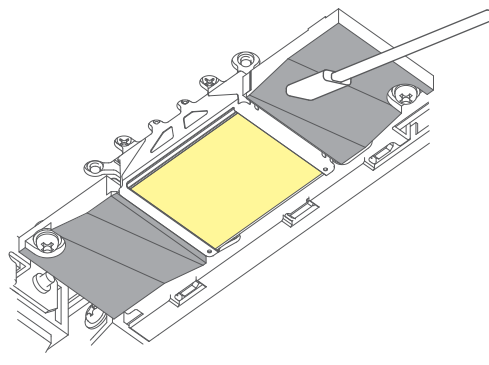
■ Cleaning required

■ **DO NOT touch the surface of a print head (the yellow portions in the illustration below)**

Print head circumference (silver metal part)

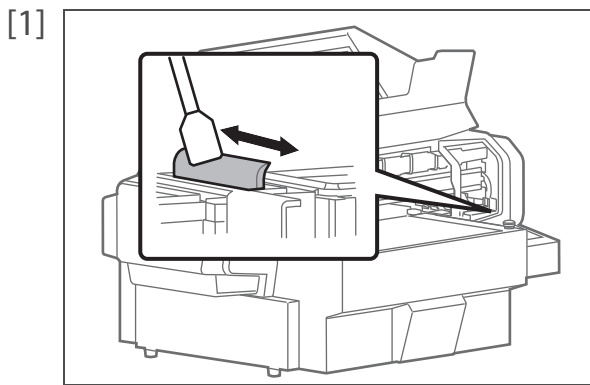


Print head guide part (black plastic part)



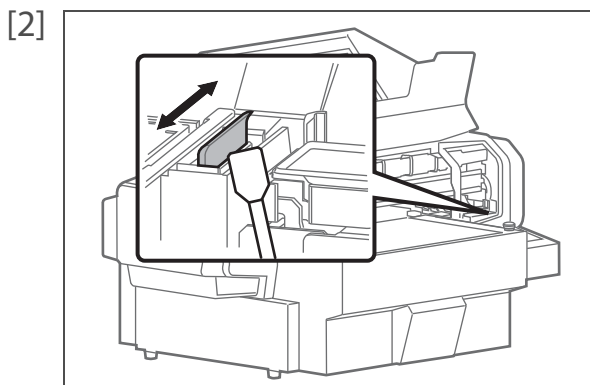
[3] Next clean the cleaning wiper and the cap circumference.

## 4. Cleaning of cleaning wiper and the circumference of the cap

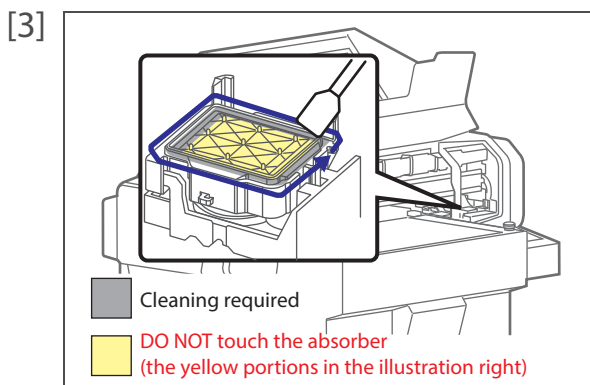


Wipe the cleaning wiper with a cleaning stick.

- Wipe the left side surface of cleaning wiper going back and forth.



Wipe the right side surface of cleaning wiper going back and forth.



Use the cleaning stick to remove the ink and dust on the circumference of the cap.

[4] Close the front cover gently.

[5] Next finish the daily maintenance.

## 5. Finishing daily maintenance

---

[1] Press the [Enter] key.

Daily Maint. :	End
----------------	-----

[2] The printer automatically performs the Short cleaning.

[3] When the Short cleaning is complete, the printer automatically enters to sleep mode.

- [4]
- Dispose of the used cleaning stick.
  - Use a paper towel to wipe the maintenance cleaner off the dropper.
  - Dispose of the maintenance cleaner in the plastic cup and dry the cup well using the paper towel.
  - Use a paper towel to clean the tray.



### Important!

- **Do not reuse a cleaning stick.**  
**Dusts can adhere causing damage to the print head.**
- **Check that the lid of the maintenance cleaner is shut properly and store it.**

[5] Now the daily maintenance is complete.

## Head cleaning

When nozzle clogging is found in nozzle check, conduct head cleaning. Head cleaning consumes ink. There are several cleaning modes in this product. Please select an appropriate mode based on your usage condition.

Short cleaning	Consumes less ink than Normal cleaning.
Normal cleaning	Perform Normal cleaning if nozzle clogging is found on the nozzle check print.
Long cleaning	Perform Long cleaning if nozzle clogging still persists after performing Normal cleaning. It consumes more ink than Normal cleaning.
Little Charge	Provide higher cleaning effect than Long cleaning, but it also consumes more ink. *This mode cannot be selected via the "Cleaning" key. Select it from the Cleaning submenu in the Panel Setting Menus.  "Mnt.1: Cleaning" on page 79
Initial Charge	Provide higher cleaning effect than Little Charge, but it also consumes more ink. *This mode cannot be selected via the "Cleaning" key. Select it from the Cleaning submenu in the Panel Setting Menus.  "Mnt.1: Cleaning" on page 79

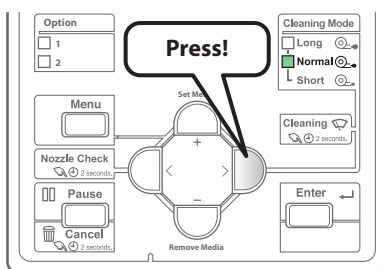
### Important!

**Comply strictly with the following when you performing "Little Charge" or "Initial Charge". If charging is interrupted, ink will be lost when charging is resumed.**

- Do not open the Front cover or the PG handle cover.
- Do not use ink cartridges that have little ink remaining.

## Steps for head cleaning

[1]

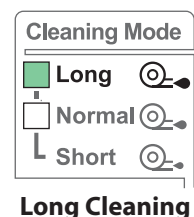
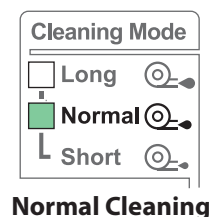
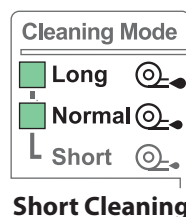


Use the [Cleaning] key to select a cleaning mode.

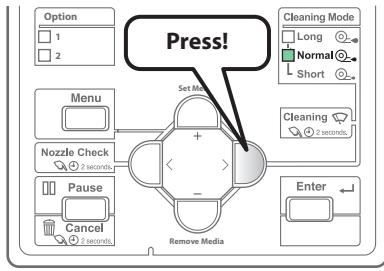
- The "Cleaning Mode" indicators will change each time the key is pressed.

### Note

- You can alternatively do this via the printer driver or the VSM's remote panel.
- The "Cleaning Mode" indicators will change as shown below.



[2]



Press the [Cleaning] key for more than two seconds.

- Cleaning will start.

[3]

Conduct Nozzle Check.

- If nozzle clogging still remains, repeat cleaning and nozzle check.

 ["Steps for head cleaning" on page 103](#)

 **Note**

- When nozzle clogging remains even after repeating "Normal cleaning" several times, conduct "Long cleaning".
- When nozzle clogging remains even after repeating "Long cleaning" several times, conduct ["Clean daily maintenance parts" on page 105](#).
- If it does not help to recover the nozzle, carry out "LittleCharge" via the Cleaning submenu in the Panel Setting Menus.



# Clean daily maintenance parts

In following cases, clean the daily maintenance parts.

- If faint print or dot missing still persists even after head cleaning has been performed.
- If you perform printing all day without entering to sleep mode and you need to perform daily maintenance.

## Preparation:

See "[Preparing for Daily Maintenance](#)" on page 96 to prepare items required for the maintenance.



**If you want to continuously use the printer after this maintenance, follow the steps below.**

**If you will not use the printer after this maintenance, enter to sleep mode and then perform maintenance.**

"[Daily Maintenance](#)" on page 95

## 1. Putting the printer into the Daily maintenance mode

[1] Check that no object including a jig is loaded on the table.

[2]  Press the [Menu] key.

[3] 

<b>Menu 3 :</b>	<b>Maintenance &gt;</b>
-----------------	-------------------------

- Press the [-] key until "Menu 3: Maintenance >" appears.
- Press the [>] key.

[4] 

<b>Mnt. 6 :</b>	<b>Daily Maint.</b>
-----------------	---------------------

- Press the [+] key to bring up "Mnt.6: Daily Maint."
- Press the [Enter] key.

[5] 

<b>Daily Maint. :</b>	<b>Start</b>
-----------------------	--------------

 Press the [Enter] key.

[6] 

<b>Remove Media</b>	<b>- &gt;</b>	<b>E</b>
---------------------	---------------	----------

The message on the left will appear.

- Remove the media and the jig on the table, and then press the [Enter] key.

<b>Wait for a while</b>
-------------------------

- The table, carriage and cleaning wiper move to gain access to maintenance.

[7] 

<b>Daily Maint. :</b>	<b>End</b>
-----------------------	------------





The message on the left will appear.

- You can start maintenance.

## 2. Cleaning daily maintenance parts

---

The maintenance procedure and parts to be cleaned are the same as "Daily Maintenance" on page 95. Follow the steps described in "Performing Daily Maintenance" on page 98 to clean each part.

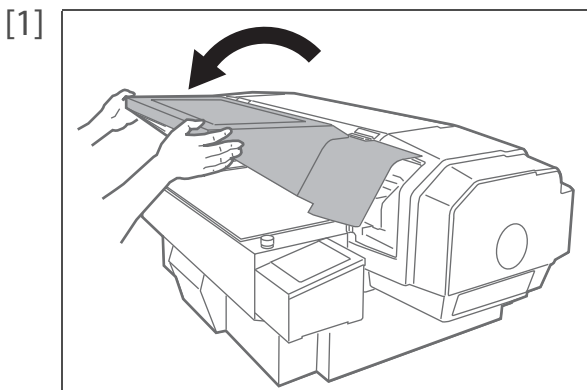
-  "Cleaning of UV Lamp" on page 98
-  "Moistening the surface of print head nozzles" on page 99
-  "Cleaning of print head circumference" on page 100
-  "Cleaning of cleaning wiper and the circumference of the cap" on page 101

### Important!

**Make sure to complete this maintenance within 5 minutes while the printer is in Daily maintenance state.**

## 3. Finishing maintenance

---



Close the front cover slowly, holding it by the places shown in the picture and using both hands.

### CAUTION



**When closing the maintenance cover, hold the tab on the maintenance cover to gently close it.**

Do not place your fingers on the edges of the printer's opening portion, or on any parts around those edges. Your fingers could get caught and be injured.



Press the [Enter] key.

[3] The printer automatically performs the Short cleaning.

- [4]
- Dispose of the used cleaning stick.
  - Use a paper towel to wipe the maintenance cleaner off the dropper.
  - Dispose of the maintenance cleaner in the plastic cup and dry the cup well using the paper towel.
  - Use a paper towel to clean the tray.

### Important!

- **Do not reuse a cleaning stick.**  
Dusts can adhere causing damage to the print head.
- **Check that the lid of the maintenance cleaner is shut properly and store it.**

[5] Now the maintenance is complete.

## Inside cleaning

### Cleaning period:

- Monthly

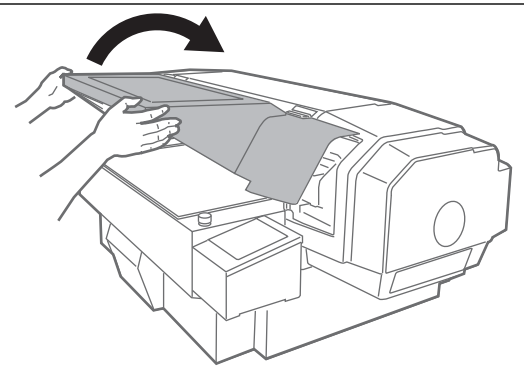
### WARNING



**Do not open or close the front cover if you are not in a balanced posture.**

If you open or close it in an unbalanced posture, your hands or other body parts could get caught in it, possibly resulting in serious injury.

### Steps

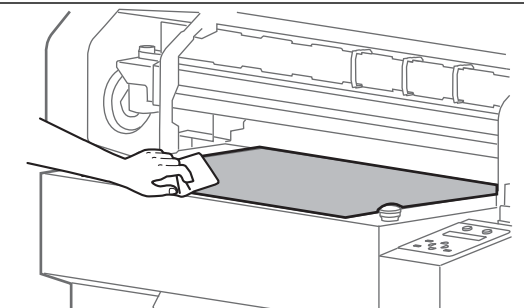

- [1] 
- Open the front cover slowly, holding it by the places shown in the picture and using both hands.
- Fully open the front cover.

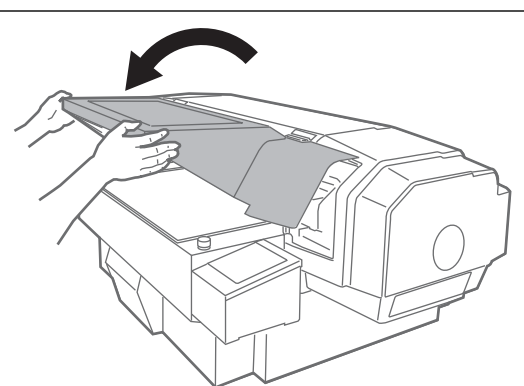
### CAUTION



**Always open the front cover fully.**

If you leave it part-open, it could close suddenly.

- [2] 
- Clean away dirt from the table using a cloth soaked in water and thoroughly wrung out.
-  **Important!**
- Do not blow off dusts inside the product with a gas duster.**  
**Dust can attach to moving parts, causing abnormal sound or malfunctions.**

- [3] 
- Close the front cover slowly, holding it by the places shown in the picture and using both hands.

### CAUTION



**When closing the front cover, always use both hands and hold it by the portions specified.**

Do not place your fingers on the edges of the printer's opening portion, or on any parts around those edges. Your fingers could get caught and be injured.

# Replacing consumable parts

## Replacing absorption material for the flushing box

The flushing box is a part that keeps receiving ink discharged from the print head. Please replace the absorption material for the flushing box periodically. If used without replacing, it can cause damage to the print head.

### Replacing period:

- When ink clumps have accumulated on the flushing-box sponges beyond the flushing-box frame. (since it differs depending on usage frequency, please check periodically)

### CAUTION



#### **Skin or eye contact with UV curable ink may cause skin inflammation or allergic reaction.**

For this operation, be sure to wear the supplied gloves (or solvent resistant gloves) and goggles to prevent ink from contacting with your eyes or skin.

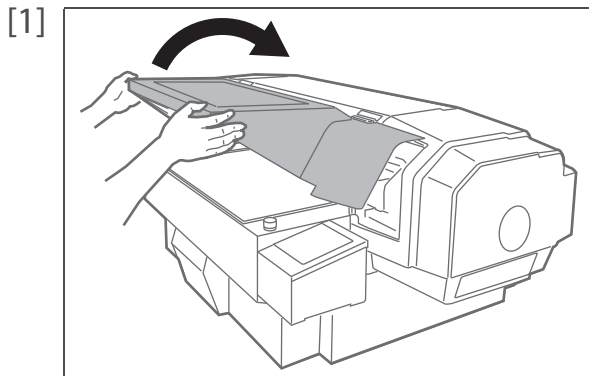
### WARNING



#### **Do not open or close the front cover if you are not in a balanced posture.**

If you open or close it in an unbalanced posture, your hands or other body parts could get caught in it, possibly resulting in serious injury.

## 1. Checking steps



Open the front cover slowly, holding it by the places shown in the picture and using both hands.

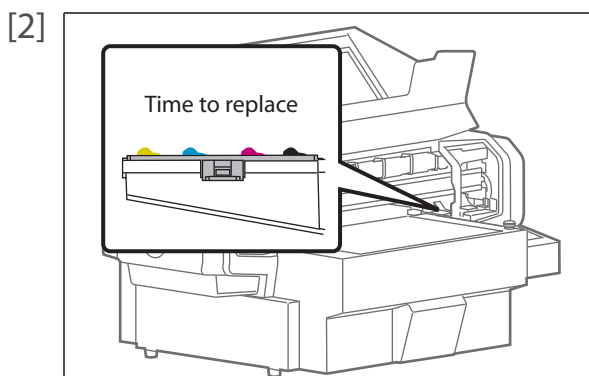
- Fully open the front cover.

### CAUTION

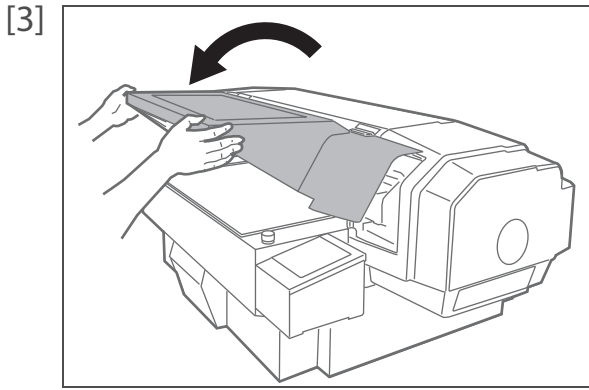


#### **Always open the front cover fully.**

If you leave it part-open, it could close suddenly.



- Check the absorption material for the flushing box.
- If the ink deposit is visible on the flushing box, replace the absorption material.



Close the front cover slowly, holding it by the places shown in the picture and using both hands.

**CAUTION**

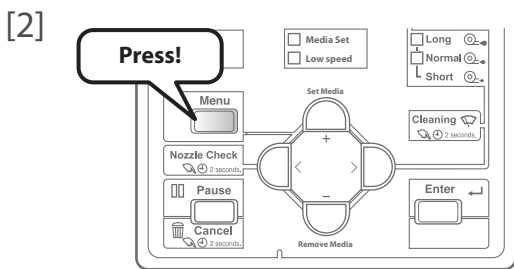


**When closing the front cover, always use both hands and hold it by the portions specified.**

Do not place your fingers on the edges of the printer's opening portion, or on any parts around those edges. Your fingers could get caught and be injured.

## 2. Replacing steps

[1] Check that no object including a jig is loaded on the table.



Press the [Menu] key.



- Press the [-] key until "Menu 3: Maintenance >" appears.
- Press the [>] key.



- Press the [-] key until "Mnt.3: CR Maintenance" appears.
- Press the [Enter] key.

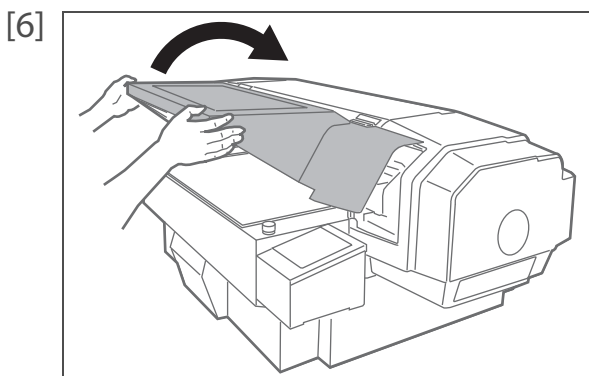


Press the [Enter] key.

- The carriage will move to the left side of the printer.
- The cleaning wiper will move upward.



The message on the left will appear.



Open the front cover slowly, holding it by the places shown in the picture and using both hands.

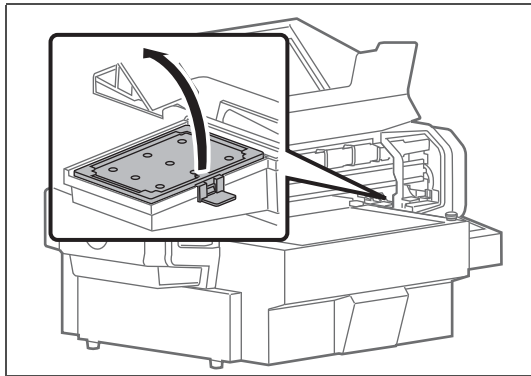
- Fully open the front cover.

**CAUTION**



**Always open the front cover fully.**  
If you leave it part-open, it could close suddenly.

[7]



Remove the absorption material for the flushing box.

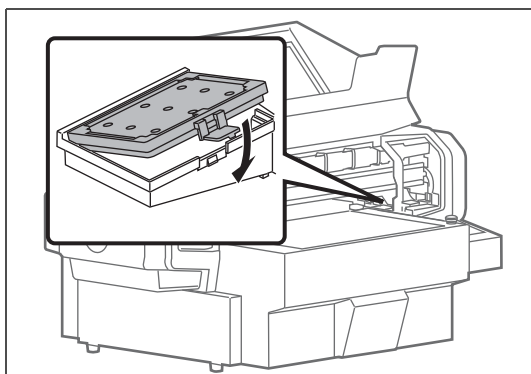
- Pull the tab up of the absorption material for the flushing box, and release the hook.



**Important!**

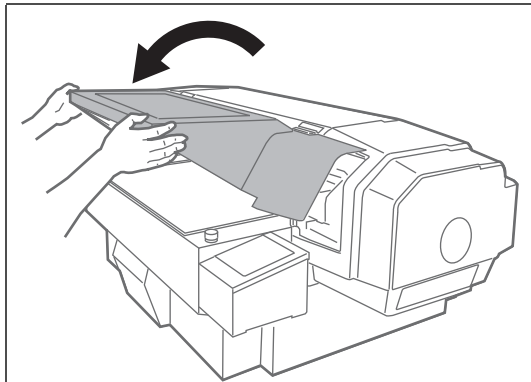
**When removing the absorption material for the flushing box, be cautious of ink drops.**

[8]



Attach new absorption material for the flushing box.

[9]



Close the front cover slowly, holding it by the places shown in the picture and using both hands.

**CAUTION**



**When closing the front cover, always use both hands and hold it by the portions specified.**

Do not place your fingers on the edges of the printer's opening portion, or on any parts around those edges. Your fingers could get caught and be injured.

[10]

CR Maint. :	End
-------------	-----

Press the [Enter] key.

CR Maint. :	Start
-------------	-------

- The message on the left will appear.
- That ends the procedure.

# Replacing the cleaning wiper

The cleaning wiper is an essential part to make printing consistent. Please replace it periodically.

## Replacing period:

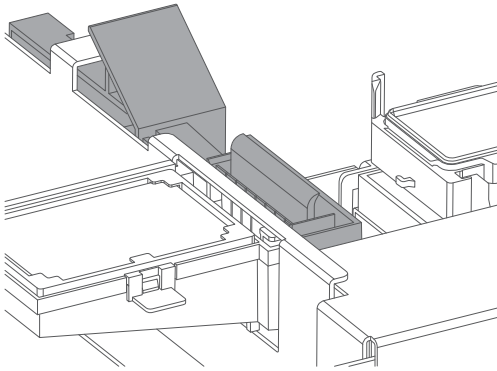
- Approx. every six months

### Note

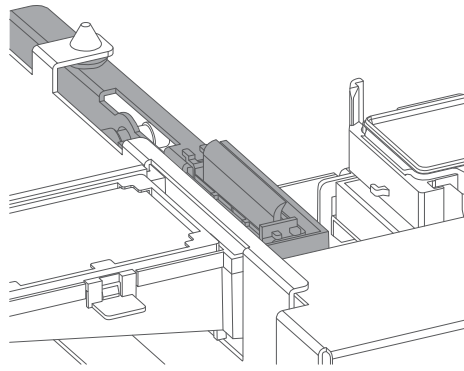
If a non-replaceable wiper is installed on your printer (as shown in the illustration left below), you cannot replace it by yourself.

- For replacement, contact your local Mutoh dealer.

Non-replaceable wiper



Replaceable wiper



### CAUTION



**Skin or eye contact with UV curable ink may cause skin inflammation or allergic reaction.**

For this operation, be sure to wear the supplied gloves (or solvent resistant gloves) and goggles to prevent ink from contacting with your eyes or skin.

### WARNING

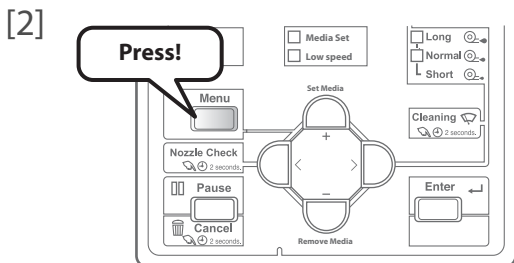


**Do not open or close the front cover if you are not in a balanced posture.**

If you open or close it in an unbalanced posture, your hands or other body parts could get caught in it, possibly resulting in serious injury.

## Replacing steps

- [1] Check that no object including a jig is loaded on the table.



Press the [Menu] key.



- Press the [-] key until "Menu 3: Maintenance >" appears.
- Press the [>] key.

[4] 

Mnt. 3 :	CR Maintenance
----------	----------------

- Press the [-] key until "Mnt.3: CR Maintenance" appears.
- Press the [Enter] key.

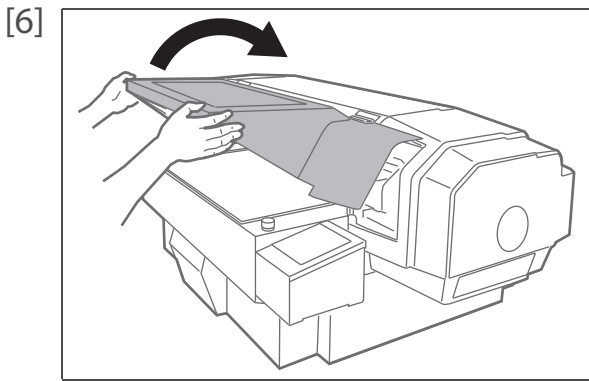
[5] 

CR Maint. :	Start
-------------	-------

- Press the [Enter] key.
- The carriage will move to the left side of the printer.
  - The cleaning wiper will move upward.

CR Maint. :	End
-------------	-----

The message on the left will appear.



Open the front cover slowly, holding it by the places shown in the picture and using both hands.

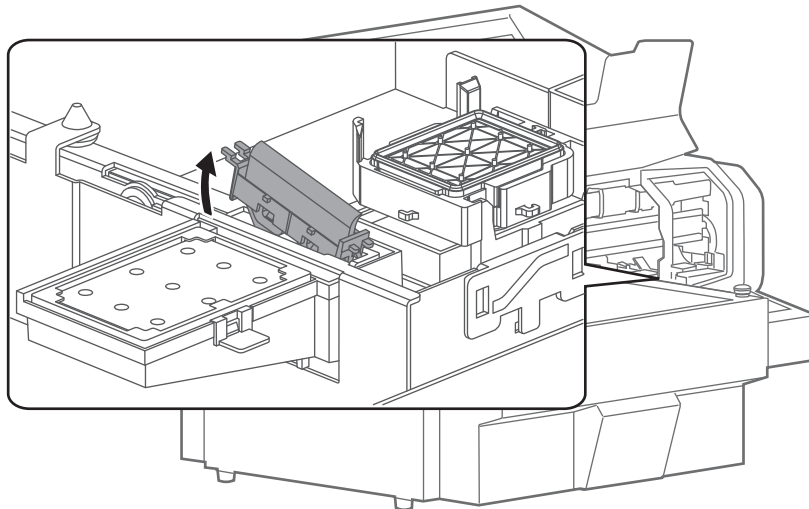
- Fully open the front cover.

**CAUTION**



**Always open the front cover fully.**  
If you leave it part-open, it could close suddenly.

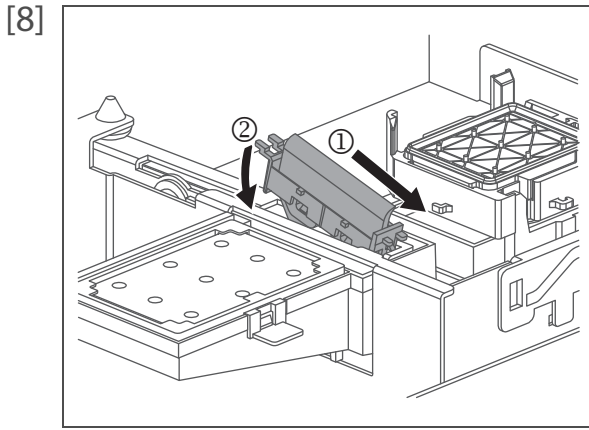
- [7] Remove the cleaning wiper.
- Lift the cleaning wiper hook and release the hook. Then, remove the cleaning wiper.



**Important!**

**When removing the cleaning wiper, be cautious of ink drops.**

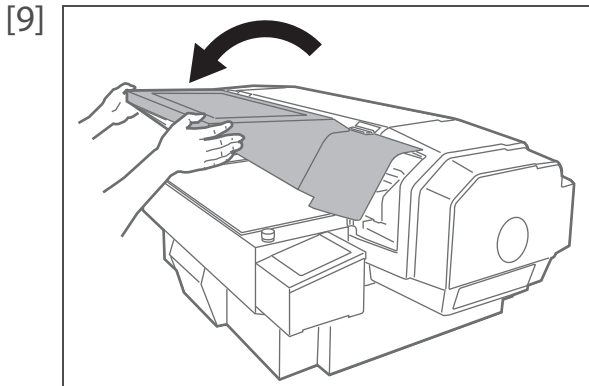




- Follow the steps below to install new cleaning wiper.
- Slide the front side of the new cleaning wiper into its slot.
  - Press the wiper hook down until it clicks into place.

**Important!**

**Do NOT touch the cleaning wiper rubber with your bare hand. If finger oil gets on the rubber, it will damage the print head.**



Close the front cover slowly, holding it by the places shown in the picture and using both hands.

**CAUTION**



**When closing the front cover, always use both hands and hold it by the portions specified.**

Do not place your fingers on the edges of the printer's opening portion, or on any parts around those edges. Your fingers could get caught and be injured.



Press the [Enter] key.



- The message on the left will appear.
- That ends the procedure.

# Transporting

Please refer to this section when transporting this product.

## Transporting

When transporting this product, it is necessary to empty the waste ink tank and fixate the print head and the table with packaging material. Transporting without these steps can cause ink leakage.

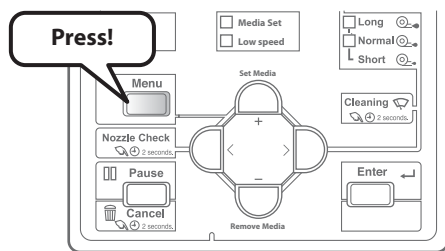
To use the printer again, reinstall the printer and perform initial charging.

### Important!

- **When moving this product, always empty the waste ink tank even moving short distance. If ink splashes inside the waste ink tank while being moved, it can cause damage.**
- **Do not tilt, or place this product upside down. Otherwise the ink may leak or the handling mentioned above may cause abnormality.**

## 1. Discharging the ink in the printer and waste ink

[1]



Press the [Menu] key.

[2]

**Menu 3 : Maintenance >**

- Press the [-] key until "Menu 3: Maintenance >" appears.
- Press the [>] key.

[3]

**Mnt.5 : Ink Discharge**

- Press the [-] key until "Mnt.5: Ink Discharge" appears.
- Press the [Enter] key.

[4]


**Ink Discharge : Start**

Press the [Enter] key.

[5]

**Empty WasteInk - > E**

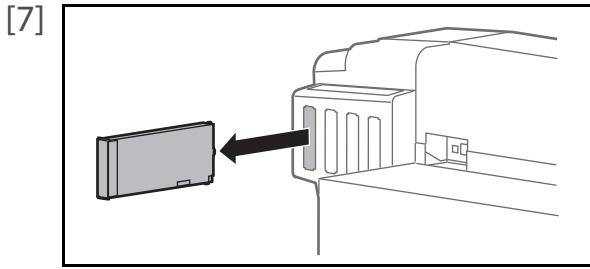
When the message on the left appears, transfer the waste ink into a container.

 ["Drain waste fluid into container" on page 93 under "Emptying waste ink tank"](#)

[6]

**Remove Cartridges**

- Press the [Enter] key.
- The message on the left will appear.



Remove the cartridges from all the cartridge slots.

**During discharge**      \*\*%

The message on the left will appear.

- Discharging the ink will start.

[8] **[123456] No Cartridge**

When the message on the left appears, transfer the waste ink into a container.

["Drain waste fluid into container" on page 93](#) under ["Emptying waste ink tank"](#)

**No Cartridge**      xxxxxxx

## 2. Repacking

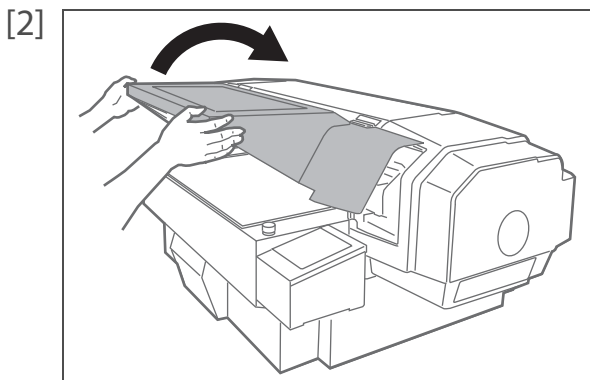
### **WARNING**



**Do not open or close the front cover if you are not in a balanced posture.**

If you open or close it in an unbalanced posture, your hands or other body parts could get caught in it, possibly resulting in serious injury.

[1] Remove all cables from the printer.



Open the front cover slowly, holding it by the places shown in the picture and using both hands.

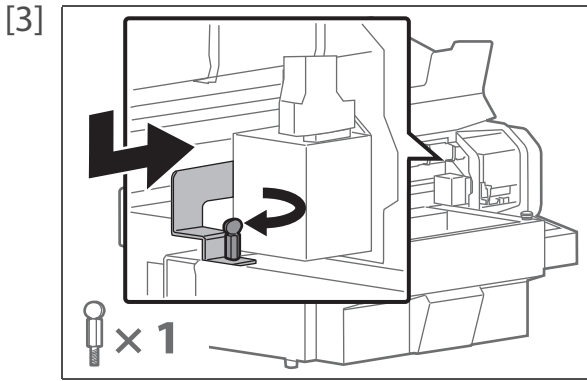
- Fully open the front cover.

### **CAUTION**



**Always open the front cover fully.**

If you leave it part-open, it could close suddenly.



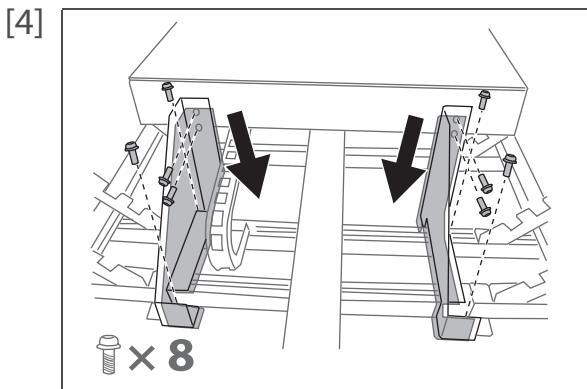
Attach the head fixing plate with screws.

- Slide the head fixing plate leftward to attach it.

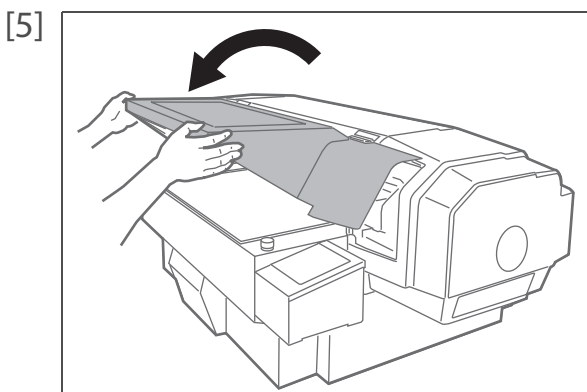


**Note**

Attach the head fixing plate carefully, so that it does not scratch any of the surrounding parts. If they are scratched, the print quality could drop.



Install the two table fixing plates with the eight screws.



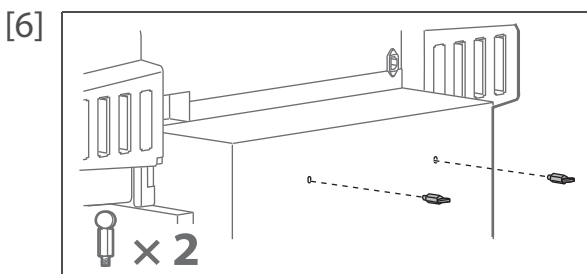
Close the front cover slowly, holding it by the places shown in the picture and using both hands.

**CAUTION**

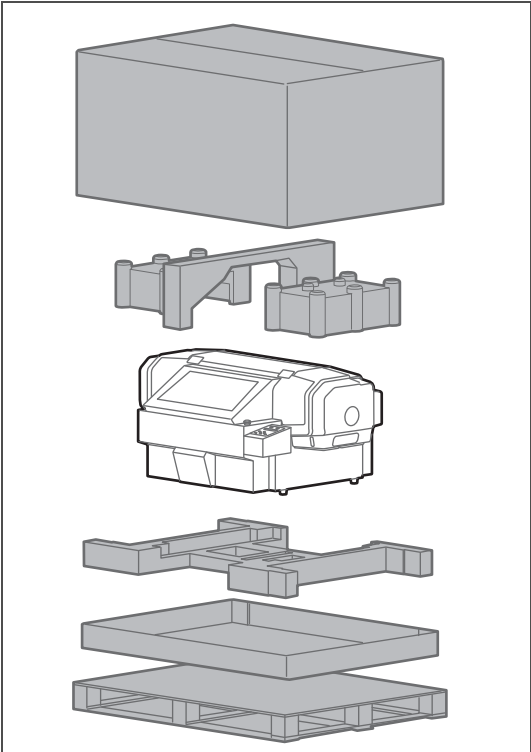


**When closing the front cover, always use both hands and hold it by the portions specified.**

Do not place your fingers on the edges of the printer's opening portion, or on any parts around those edges. Your fingers could get caught and be injured.




Install the two table fixing plates with the screws.

- [7]  Attach protection materials, and place the product inside the package box.

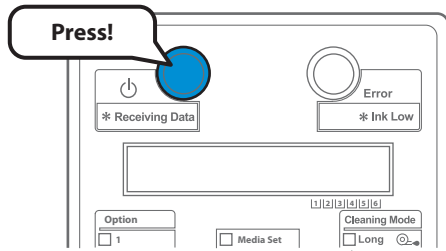
### 3. Reinstalling

---

- [1] Referring to "Startup Guide", unpack the product and assemble.  
• Conduct up to "Turning the Power On and Making the Initial Settings".
- [2] Carry out initial ink charging after ink discharge.  
 ["How to perform initial ink charging after ink discharge" on page 118](#)

## How to perform initial ink charging after ink discharge

[1]



Turn the power button of this product ON.

- Blue light turns on.
- The product starts initialization operations.

[2]



Press the "Enter" key when the message on the left appears.

[3]



When the message on the left appears, empty the waste ink tank.

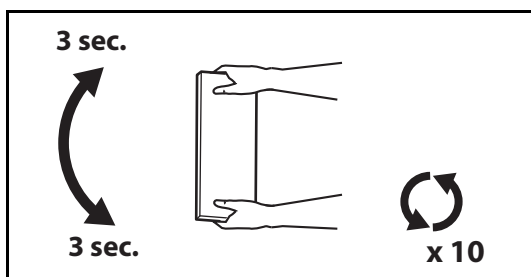
["Drain waste fluid into container" on page 93 under "Emptying waste ink tank"](#)

[4]



- Press the [Enter] key.
- The message on the left will appear.

[5]



Make sure you agitate the ink cartridge after you unpack it.

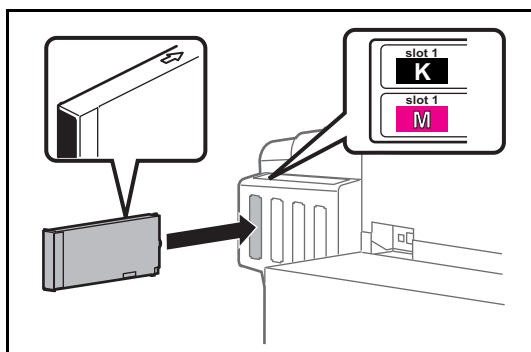
- Turn the ink plug upward and wait for three seconds.
- Next, turn the ink plug downward and wait for three seconds.
- Repeat that 10 times.



Note

You do not have to agitate varnish ink before use.

[6]



Insert ink cartridge to this product.

- Match the label of this product to the color of ink cartridge.
- The arrow on the cartridge should face up.
- Insert each cartridge to firmly seat it into each slot.



The message on the left will appear.

- This printer starts ink charging.



When ink charging is complete, the message on the left will appear.



# Chapter 4 Appendix



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# Messages and Error Messages



This section describes messages displayed during normal printer operation or when errors occur, and solutions to the messages.

## Status messages

This section describes messages displayed during printer normal operation. When the product is operating correctly, each operation status is displayed on the operation panel as below.

Display	Description
Activation required	Activation has not been executed. Consult the relevant section of the Startup Guide, and carry out activation.  <a href="#">Startup Guide "Step1 Carrying out activation" P.11</a>
Ready to Print	Standby (Media is loaded).
Set media, then press Set Media Key	Standby (Media is not loaded).
Obstacle detected Press Remove Media Key.	An obstacle has been detected. Press the [Remove Media] key, and reset the media in place.  <a href="#">"Loading media" on page 30</a>
Receiving	Receiving data.
Converting	Analyzing data.
Printing	Under printing.
Remain : XXX.Xm	Displays the length of the data that has not been printed in meters for the data currently being printed.
Remain Time : XXX.Xmin	Displays the time remaining to print in minutes for the data currently being printed.
PrintRestart->Enter	Printing is paused. To resume, press the [Enter] key.
Power Off	Turning OFF the printer. Please wait for a while.
S/C Reading	Reading the S/C card.
Ink Circulation	Ink is circulating inside the printer.
*** Remote Mode ***	The remote panel mode is running, via VSM or similar. In the remote panel mode, operations via the operation panel are not possible. To terminate the remote panel mode, press the [Cancel] key for more than two seconds.
Start Ink Charge ->E	Ink charging starts. Please wait a while.
Insert CleaningCart.	Washing Print head. Install the cleaning cartridges.
Busy-Washing **%	<ul style="list-style-type: none"> <li>Initial charging, ejecting filler fluid.</li> <li>Washing the print head by cleaning fluid.</li> </ul> Please wait a while.
Remove Cartridges	Washing Print head or discharging ink. Remove the cartridges.
Insert Ink Cartridges	Charging the ink. Insert Ink Cartridges







Display	Description
Ink Refill **%	Charging the ink. Please wait a while.
Discharging	Discharging the Ink. Please wait a while.
Empty WasteInk ->E	Transfer the waste ink from the waste ink tank into a container, and press the [Enter] key.  <a href="#">"Emptying waste ink tank" on page 92</a>
Cover Open	The front cover is open.
PG Handle Cover Open	The PG handwheel cover is open.
Perform Daily Maint.	Make sure to perform daily maintenance when prompted.  <a href="#">"Clean daily maintenance parts" on page 105</a>

## Error message display and possible solutions

This section describes error messages and possible solutions.

Error messages are displayed when certain failures occur during printer operation.

If an error that can be displayed occurs, the printer may display the following error messages on the operation panel and stop operation.

Display	Description
[*****] Ink End	Ink has run out. (Stops operation) Replace with a new ink cartridge.  <a href="#">"Replacing ink cartridge" on page 91</a>
[*****] NoCartridge	Ink cartridge is not inserted. (Stops operation) Insert Ink cartridge.
[*****] Discharged	Ink is not filled. Perform initial ink charging.  <a href="#">"How to perform initial ink charging after ink discharge" on page 118</a>
Full WasteInkTank	The waste ink tank has become full. (Operation will stop when this happens.) Immediately transfer the waste ink into a container.  <a href="#">"Emptying waste ink tank" on page 92</a>
NearFullWasteInkTank	The waste ink tank is about to become full. (Operation will continue in this condition.) Transfer the waste ink into a container.  <a href="#">"Emptying waste ink tank" on page 92</a>
[*] Ink Low	Slot * ink is low. Get a replacement cartridge ready.
[*****] S/C ReadErr	Reading S/C Card has been failed. Insert ink cartridge again. If S/C Card still cannot be read, insert new ink cartridge.
[*****] S/C Col.Err	Ink cartridges are inserted in wrong slots. Insert ink cartridges correctly again.
[*] S/C Ink Err	The ink cartridge cannot be used for this printer. Contact your local MUTOH dealer.

Display	Description
[*] S/C CodeErr	Inserted ink cartridge is not a proper one. Contact your local MUTOH dealer.
[*] Broken Chip	S/C Card has been broken. Insert new ink cartridge.
[*****] Check Ink	Ink cartridges were not recognized correctly. Insert ink cartridges correctly again. Contact your local MUTOH dealer.
[*]Reseat Ink	Because the Smart chip card is poor in contact, the reinsertion of the ink cartridge is necessary. Reseat all the ink cartridges.
Daily Maint. Error	An obstacle has been detected. Press any key on the operation panel. Remove any object including a jig from the table and then perform daily maintenance.
Obst. - > Print Cancel	An obstacle has been detected. Press the [Enter] key to cancel the job.
Obst. - > PrintContinue	An obstacle has been detected. Press the [Enter] key to resume the job.
Err!Reboot Printer	Activation has failed. Restart the printer and activate the printer again.
Life Times [Pump]	The operational life of the pump motor has almost expired. (Continues operation) Contact your local MUTOH dealer.
Life Times [CR Motor]	The operation life CR motor has almost expired. (Continues operation) Contact your local MUTOH dealer.
Life Times [PF Motor]	The operational life of the PF motor has almost expired. (Continues operation) Contact your local MUTOH dealer.
Life Times [C Pump]	The operational life of Circulation pump motor is almost expired. (Continues operation) Contact your local MUTOH dealer.
Life Times [UV Lamp]	The operational life of UV LED has almost expired. (The operation continues.) Contact your local MUTOH dealer.
Shake W Cartridge	Agitate the White (Wh) ink cartridge.
Shake KMCY Cartridge	Agitate the Black (K), Magenta (M), Cyan (C), and Yellow (Y) ink cartridges.
Shake KMCYW Cartridge	Agitate the Black (K), Magenta (M), Cyan (C), Yellow (Y), and White (Wh) ink cartridges.
Shake ALL Cartridge	Agitate all ink cartridges. Agitate the Black (K), Magenta (M), Cyan (C), and Yellow (Y) ink cartridges.

Display	Description
Life Warning [CPump]	<p>You must replace the Circulation Pump. Please contact your Mutoh dealer to replace the Circulation-Pump. If you want to stop the beep and continue printing, follow these steps.</p> <ol style="list-style-type: none"> <li>1. Press the [Enter] or [Cancel] key to stop the beep.</li> <li>2. The message "MaintenanceCall?" appears on the operation panel. Use the [+] / [-] key to select [Yes] or [No].</li> <li>3. Press the [Enter] key. <ul style="list-style-type: none"> <li>• When [Yes] is selected, the message "Ready To Print" will appear on the operation panel. You can continue printer operation.</li> <li>• When [No] is selected, the message "Printer Stop Shortly" will appear on the operation panel. Go to Step 4.</li> </ul> </li> <li>4. Press the [Enter] key. The message "Ready To Print" appears on the operation panel.</li> </ol>
Replace [CPump]	<p>The Circulation Pump reached the end of the life cycle. You cannot operate the printer from the operation panel until replacing the pump.</p> <ol style="list-style-type: none"> <li>1. Press the [Enter] or [Cancel] key to stop the beep.</li> <li>2. Contact your dealer immediately to replace the Circulation-Pump. <ul style="list-style-type: none"> <li>• In this stage, the automatic ink maintenance will no longer work. The printer performance after the replacement cannot be guaranteed.</li> </ul> </li> </ol>

 Note

- The color inside [\*\*\*\*\*] in the error display represents the ink color with a problem.
- If no ink and no cartridge occur at the same time, no cartridge message has priority to be displayed.

## Error requiring restart

An error requiring restart is displayed if a fatal operational failure such as the following occurs.

- When an obstacle that prevents printing occurs.
- When a problem occurs with the electrical circuit (PCB, motor, sensor, etc.) of the printer.
- When a failure in the printer control program occurs.

If an error requiring restart occurs, the printer stops operating after performing the following operations.

**1. The drive power automatically shuts down.**

**2. All LED lights on the operation panel blink and the printer beeps continuously.**


**3. The error message is displayed on the operation panel.**

Pressing any key on the operation panel stops the beeping.

For an error requiring restart, operation will return to normal after removing the cause of the error and restarting the printer.

If the same error message is repeatedly displayed, contact the your local MUTOH dealer.

Be sure to tell us the code no. of the error message when you contact us.

Display	Description
Emergency Mode: E ***	A problem that does not have a remedy has occurred. 1. Check if the replaced parts are installed correctly. 2. Turn the power button off. Wait a short while, then turn the power button on, to restart the printer.
Emergency Mode: AC	The power was shut down instantaneously while the printer is operating. 1. Turn the power button off. Wait a short while, then turn the power button on, to restart the printer.
Emergency Mode: CPU	CPU error occurred. 1. Turn the power button off. Wait a short while, then turn the power button on, to restart the printer.
Emergency Stop Reboot Printer	Emergency stop button is pressed. The printer will stop operation. 1. Resolve the cause(s) of the emergency stop, and make sure there are no problems. 2. Turn the emergency stop button clockwise, to turn it off and cancel the emergency stop status. 3. Turn the power button off. Wait a short while, then turn the power button on, to restart the printer.  <a href="#">"Emergency stop button" on page 52</a>

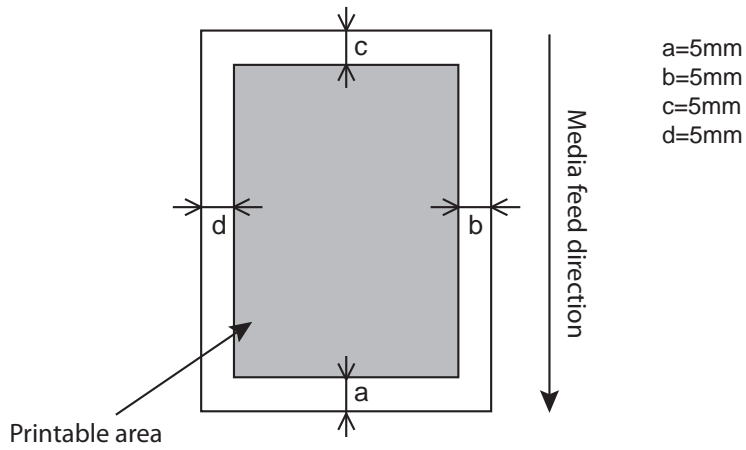


Note

" \*\*\* " in the error message is the code no. that indicates what type of error occurred.

# Specifications of this product

## Printing area



## List of specifications

Model Name	VJ-426UF	
Print method	On demand piezo method	
Drive method	Firmware servo / DC motor drive	
Paper feed method	Setting on (removing from) the table from the front, with the front cover open	
Media hold down method	Vacuum Table	
Ink curing device	UV-LED Lamp	
Conditions of usable media	Maximum width	483 mm
	Maximum length	329 mm
	Maximum thickness	70 mm
	Weight	4 kg or less
Maximum print width	473 mm	
Maximum print length	319 mm	
Head height adjustment	Table height adjustable by using PG handwheel. Interference with media and/or head controlled via obstacle sensor	
CPU	64 bit RISC CPU	
Memory	256 MB	
Interface	Ethernet (10/100BASE-TX)	
Ink	Color	4 colors (Black, Cyan, Magenta, Yellow) 6 colors (Black, Cyan, Magenta, Yellow, White, Varnish)
	Type	220 ml cartridge
Waste Ink Tank	Fixed to the body type, capacity 1,400 ml, waste ink discharge by users	
Emergency stop button	Equipped with switch for stopping operation in an emergency.	
Environmental conditions	Operation environment	Temperature 20 to 32 °C, humidity 40 to 60%, no condensation.
	Recommended Printing Environment	Temperature 20 to 32 °C, humidity 40 to 60%, no condensation.
	Change rate	Temperature: No more than 2 °C per 1 hour Humidity: No more than 5% per 1 hour
	Environment for storage	Storage without ink charging: up to 6 months Temperature -20 to +60 °C, humidity 20 to 80% Storage with ink charging: up to 30 days <sup>*1*2</sup> Temperature 5 to +30 °C, humidity 20 to 80% <sup>*1</sup> Perform the Daily Maintenance in the operation manual. <sup>*2</sup> Always leave the printer in sleep mode and check the remaining ink level once a week. Agitate white ink in the cartridge once a week as instructed.

Power supply specifications	Voltage	AC 100 V to 240 V $\pm$ 10%
	Frequency	50/ 60Hz $\pm$ 1Hz
	Capacity	No less than 4 A
Power consumption	Power off	AC 100 V to 120 V, 2.1 W or below AC 200 V to 240 V, 3.2 W or below
	Operation	330 W or below
Current consumption	100 V to 120 V	4 A or below
	200 V to 240 V	2 A or below
External dimensions	Height	544.6 mm
	Width	1,188 mm
	Depth	838.5 mm
Weight	Main body	70 kg

## Options / Supply list

For more information about the options and the supply items, contact your local MUTOH dealer.

**MUTOH**