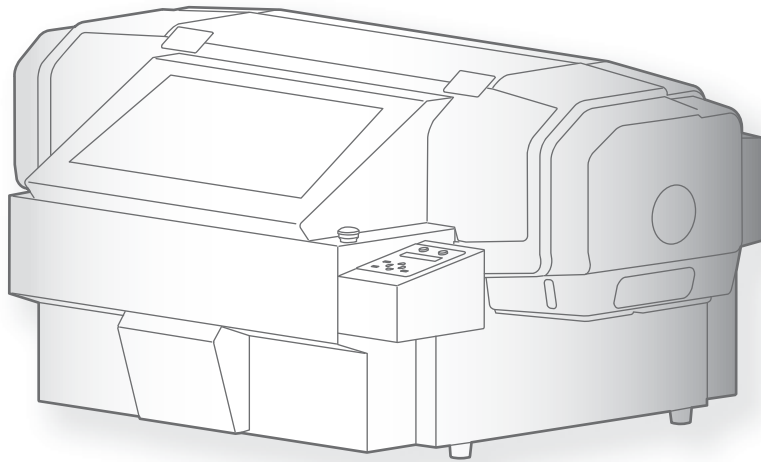


VJ-426UF

Operation Manual

Operations and Maintenance Methods



-
- Unauthorized copying or duplication of the whole or part of the contents of this manual is prohibited.
 - 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.
 - Please be aware that MUTOH will not be liable in any way for failures or accidents that result from handling or operating the printer according to any procedures other than those set forth in this manual.
 - Company names and product names that appear in this manual are registered trademarks of the respective companies.

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: 3.0µs

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.

Warranty Limitations

- MUTOH INDUSTRIES LTD. warrants part repair or replacement as a sole measure only if a failure is found in the system or in the materials and workmanship of the product the seller produced.
However, if the cause of failure is uncertain, decide the action after due mutual consultation.
- The warranty shall not apply to any direct or indirect loss, or compensation for the loss due to the product that has been subject to misuse, neglect, or improper alternation.

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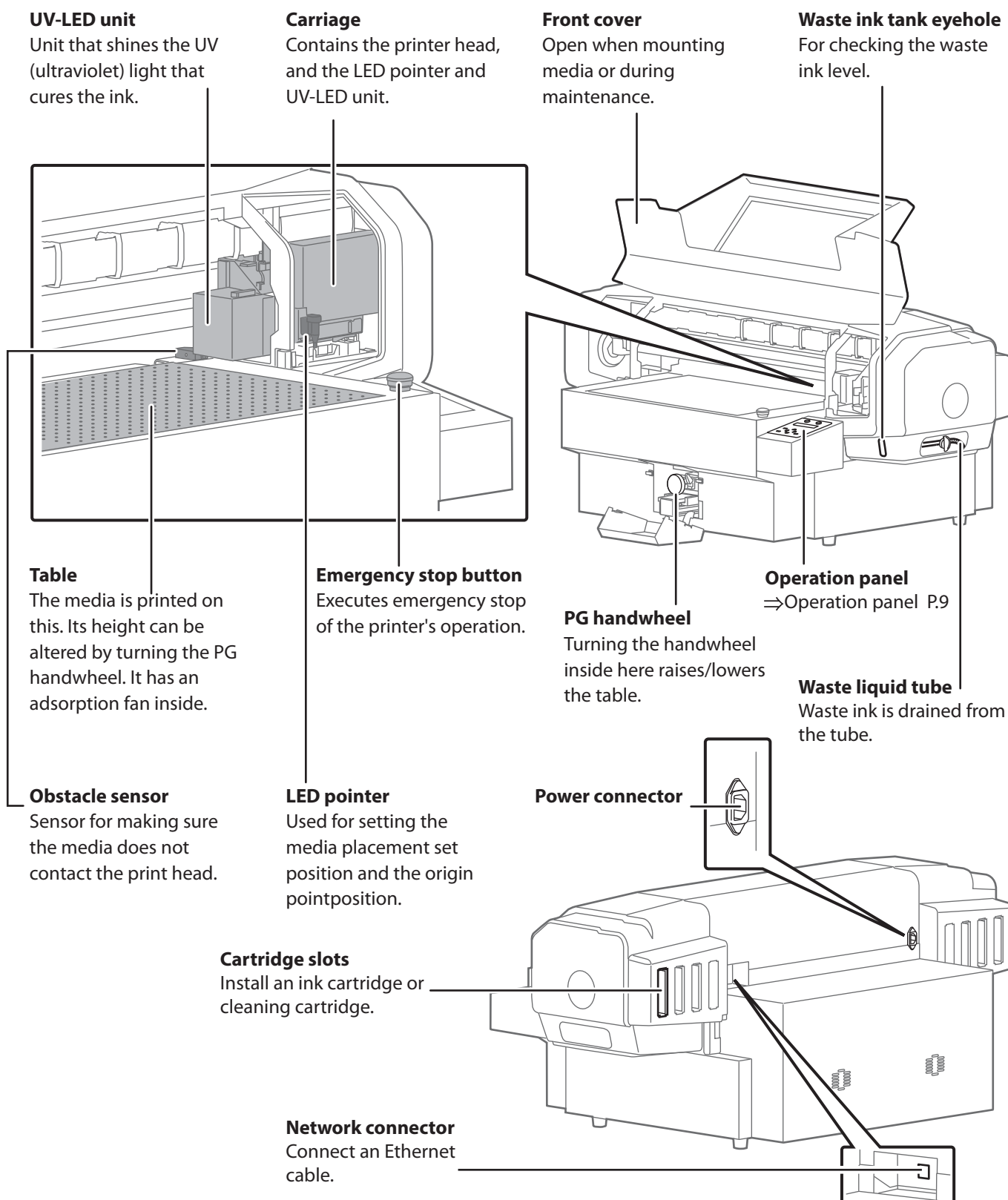
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Introduction

Name of each part

Printer's main body



Operation panel

Power button

- Pressing this turns the power on. Lights steady in blue when the power is on.
- Pressing this once more turns the power off. Is unlit when the power is off.
- Flashes while data is being received, in the sleep mode, and at other times.

[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.

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 the menu:

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

[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

Used for accessing and exiting the menu.

[Pause] / [Cancel] key

- Press this key to pause printing.
- Holding this key pressed down for 2 seconds or longer will cancel the print job and delete the data received.

When setting the menu:
Cancels a change of a setting value.

[+] / [Set Media] key

Pressing this after setting a media in place will put the printer into ready-to-print status.

When setting the menu:

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

[<] / [Nozzle Check] key

Pressing and holding this down for 2 seconds or longer will run a nozzle check.

When setting the menu:
Press this to change a set value.

[-] / [Remove Media] key

Pressing this after printing will enable replacement of the media.

When setting the menu:

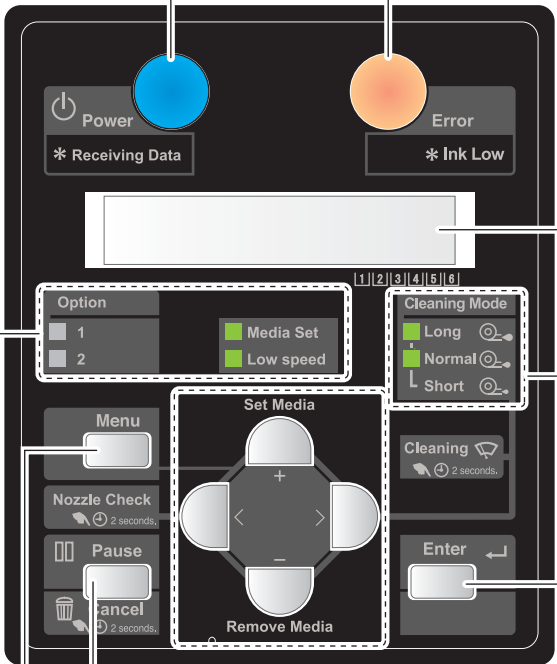
- Press this to move to another menu item
- Press this to change a set value.

[>] / [Cleaning Mode] key

- For changing the cleaning mode.
- Pressing and holding this down for 2 seconds or longer will execute head cleaning.

When setting menu:

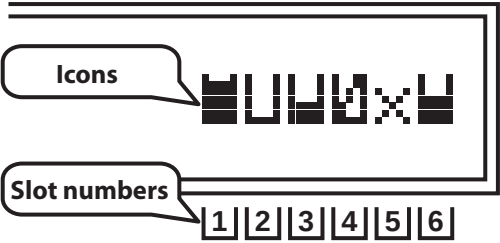
- Press this to move to a lower level of menu items.
- Press this to change a set value.



Icon displays on operation panel

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

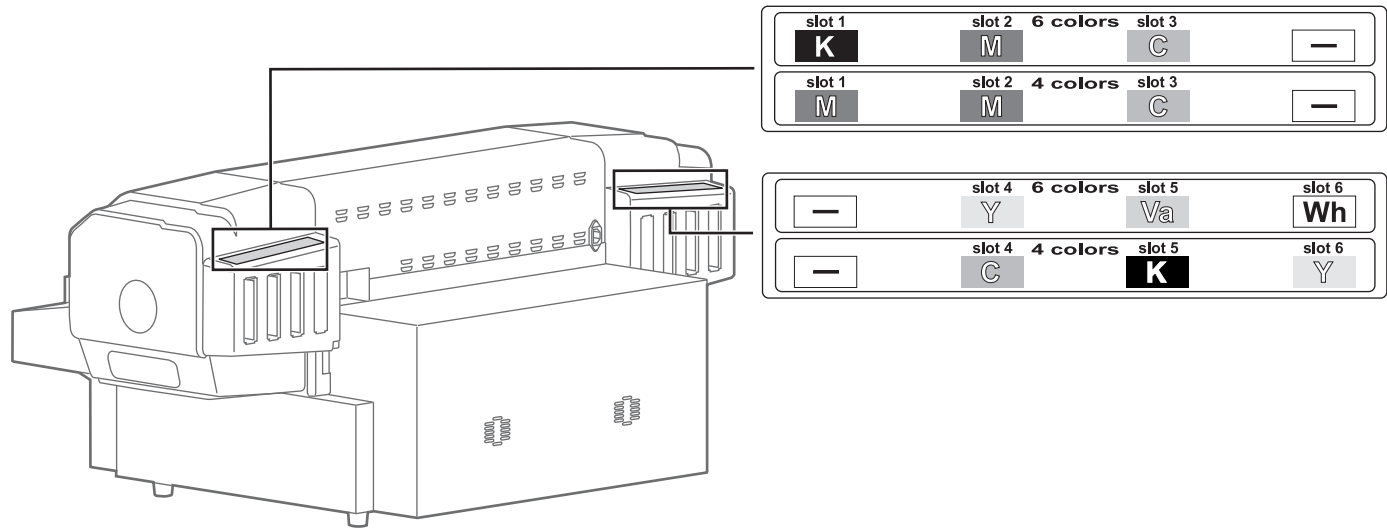
- When no menu is displayed
- When there is an ink or cartridge error



- 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 meanings of the icons are as set out below.

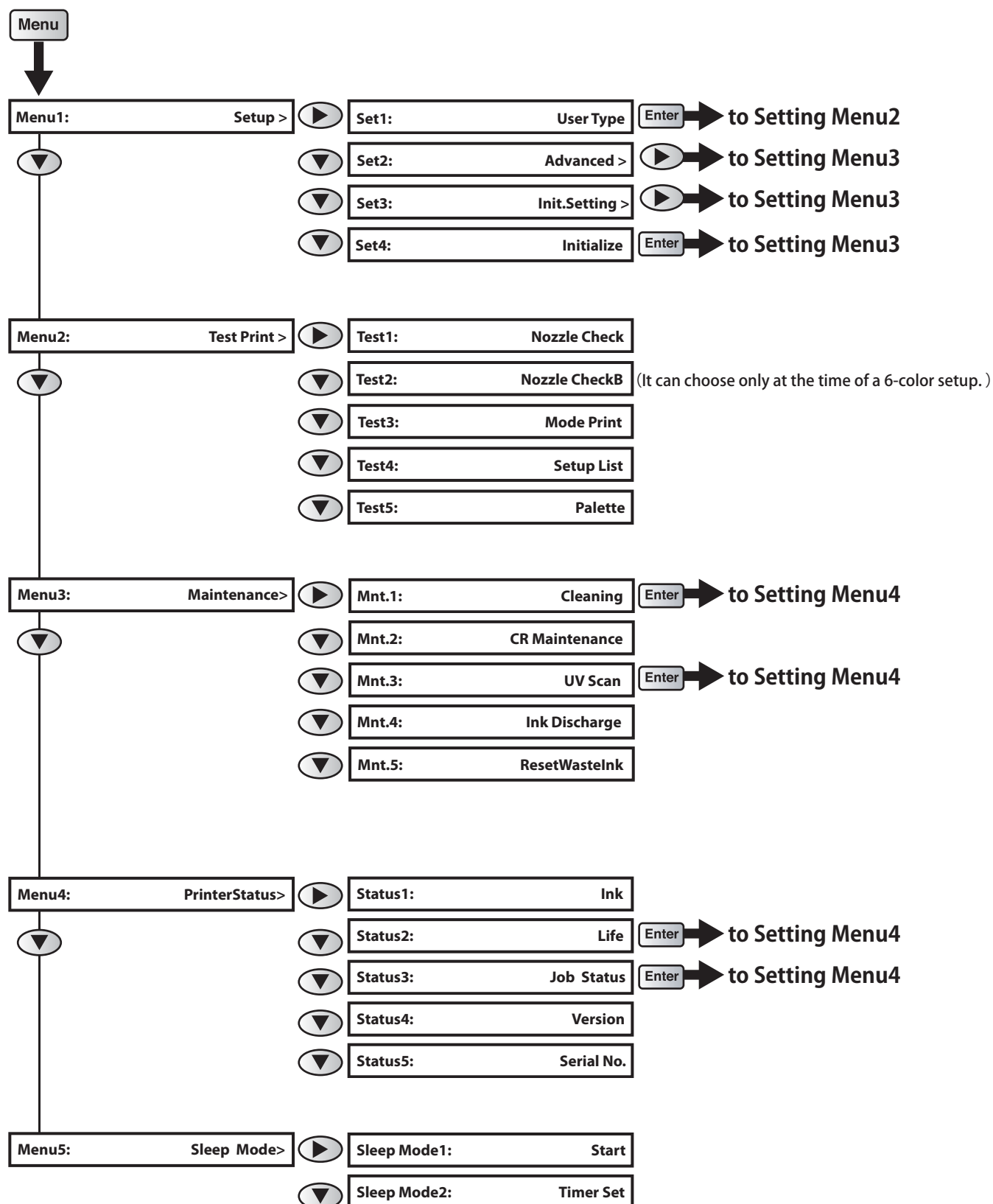
	Remaining ink amount : More than 80%, less than 100%		Remaining ink amount : Less than 20%
	Remaining ink amount : More than 60%, less than 80%		Ink Low
	Remaining ink amount : More than 40%, less than 60%		Ink End
	Remaining ink amount : More than 20%, less than 40%		No cartridge

The relationships between the slot numbers and ink cartridges are as follows.

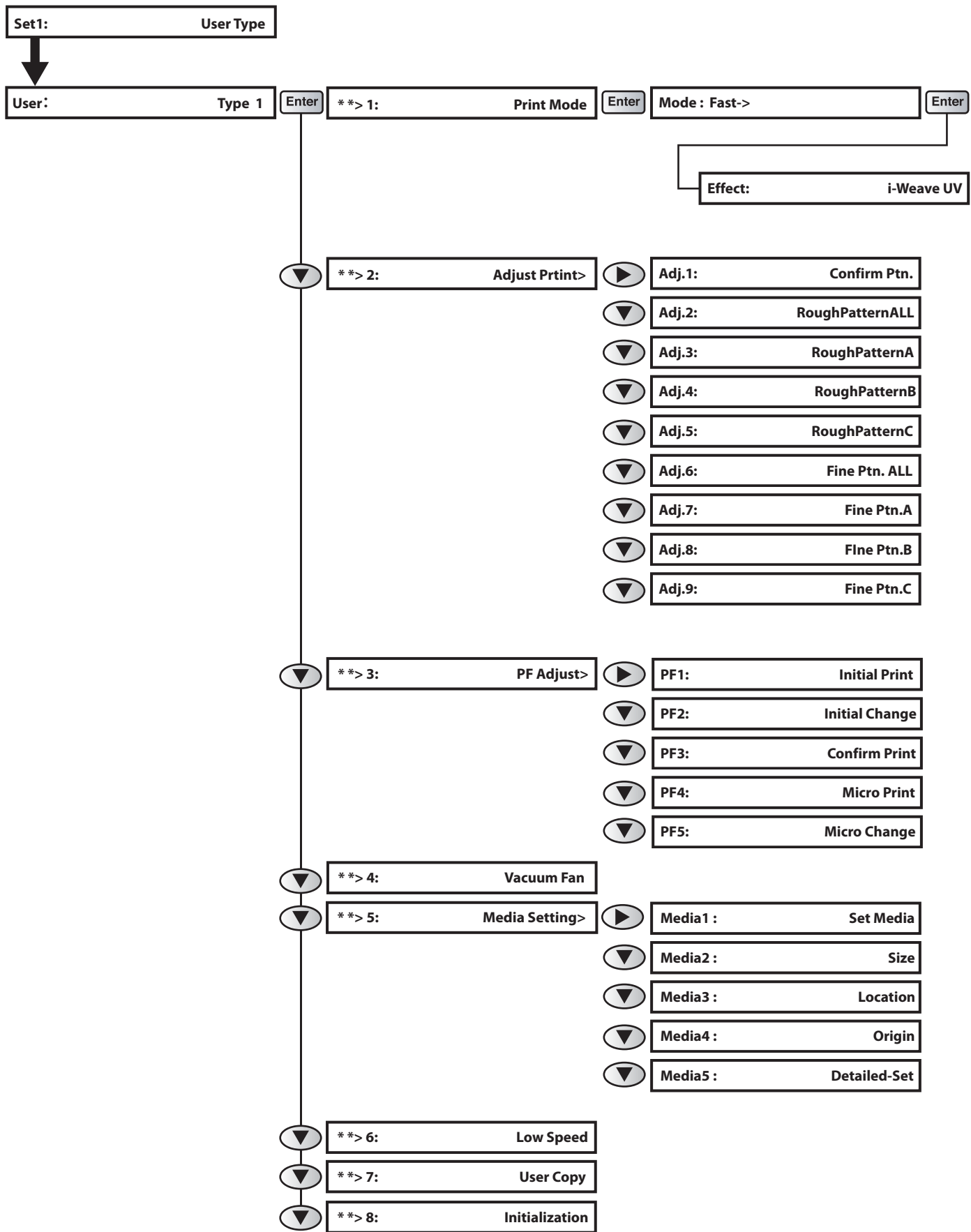


Menu chart

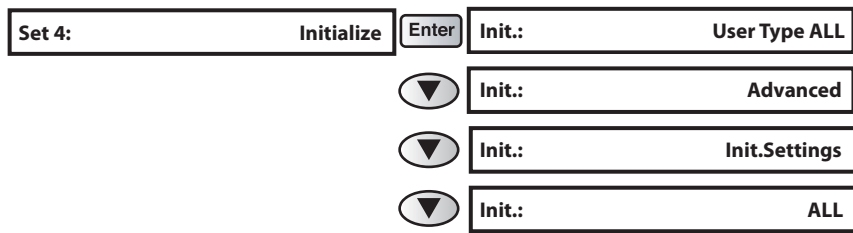
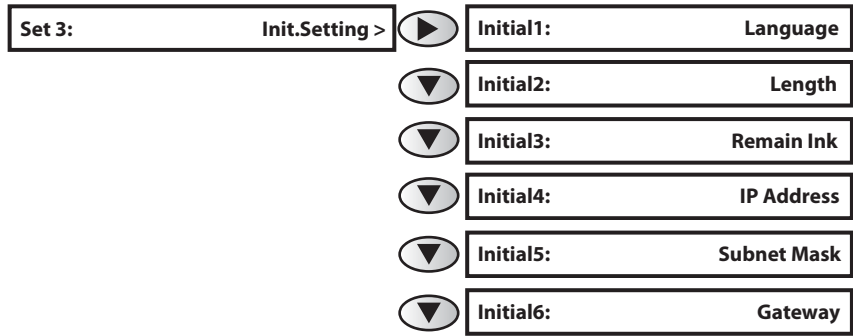
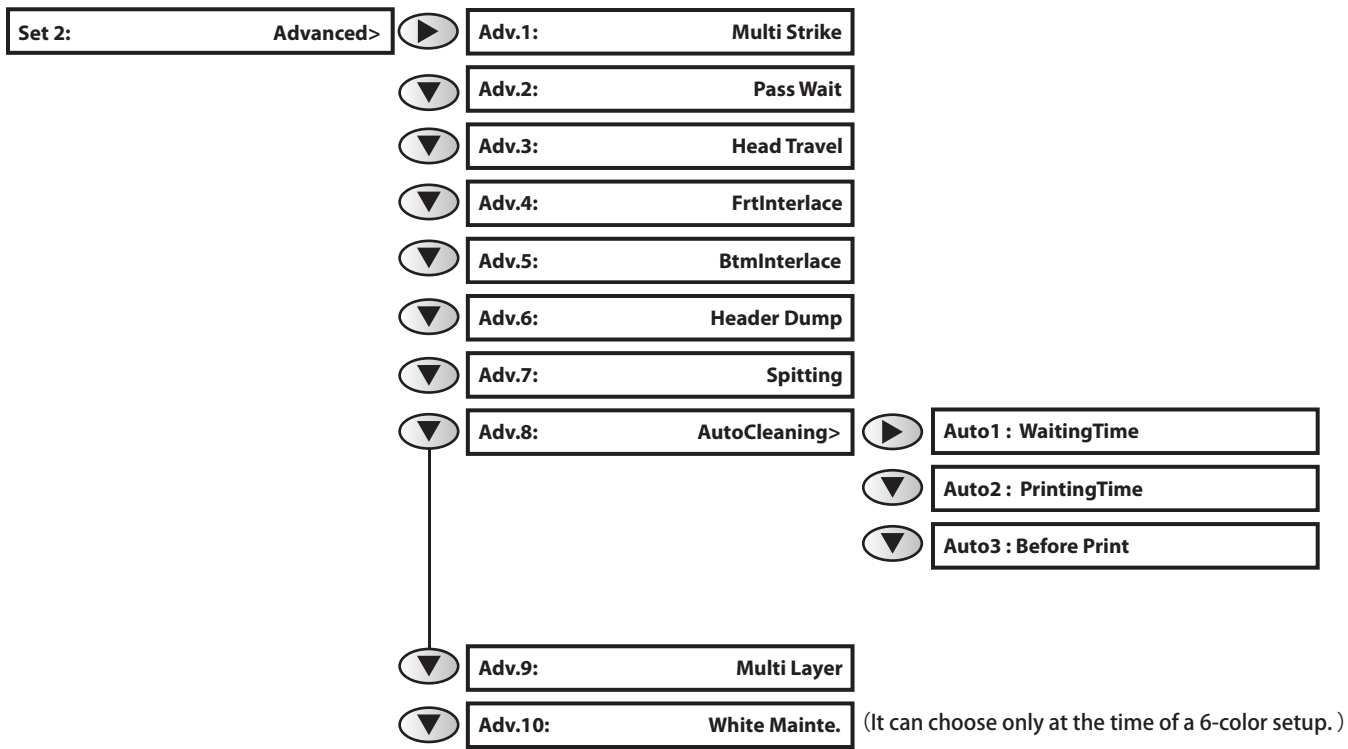
Setting menu 1



Setting menu 2



Setting menu 3



Setting menu 4

Mnt.1:

Cleaning

Enter

Time :

Short

▼

Time :

Noraml

▼

Time :

Long

▼

Time :

Little Charge

▼

Time:

InitialCharge

Mnt.3:

UV Scan>

Enter

UV Scan1:

Start

▼

UV Scan2:

Scans

▼

UV Scan3:

Post Cure

Status 2:

Life

Enter

Head :

E*** F

▼

Pump :

E*** F

▼

CRMotor :

Change

▼

PFMotor :

E**** F

▼

PGMotor :

E**** F

▼

C Pump :

E*** F

▼

UVLamp :

E*** F

▼

WasteInkTank

E*** F

Status 3:

Job Status

Enter

Job Status :

Completed

▼

ToDoLength :

XXX.X m

▼

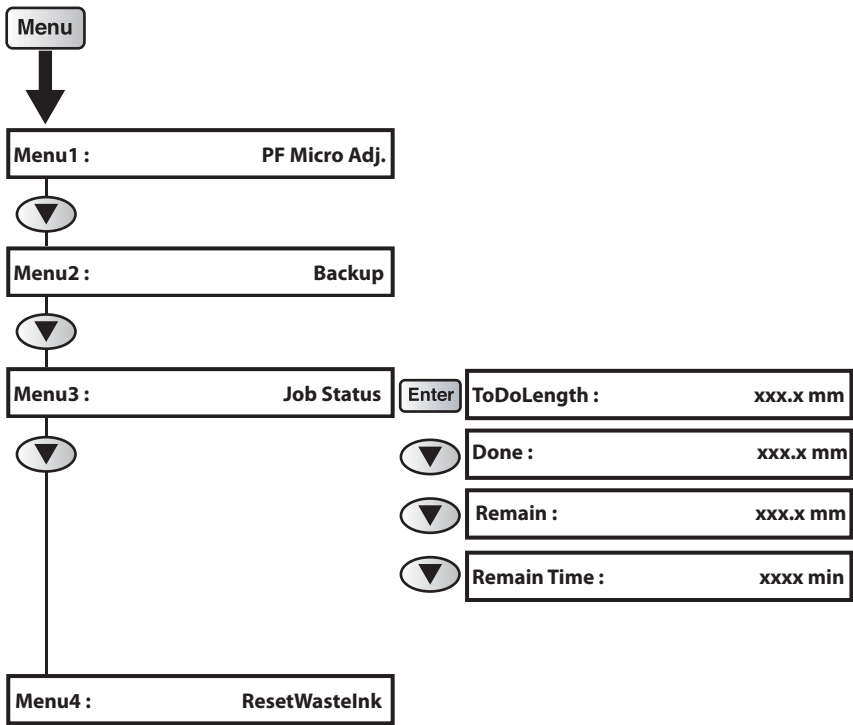
Done :

XXX.X m

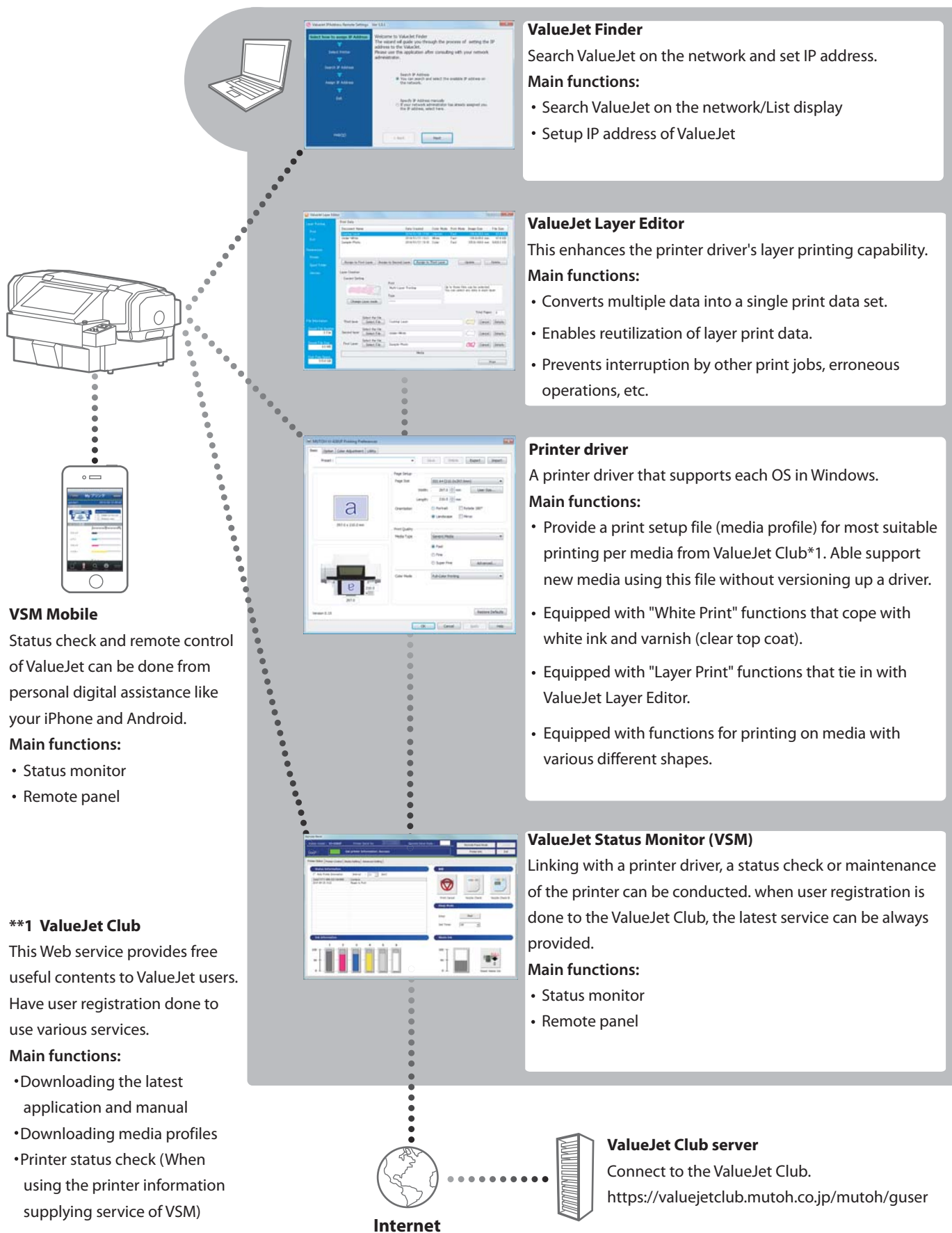
▼

Remain:

XXX.Xm



System configurations of this product



Displaying the Printing Preferences screen of printer driver

[1] Windows 8/Windows8.1

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

Windows 7

Click [Start] - [Devices and Printers].

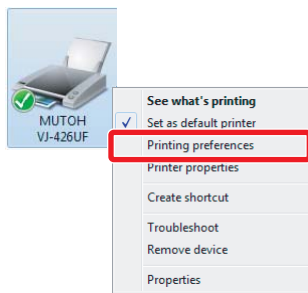
Windows Vista

Click [Start] - [Control Panel] - [Printer].

Windows XP

Click [Start] - [Printers and Faxes].

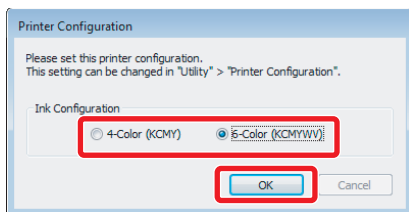
[2]



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

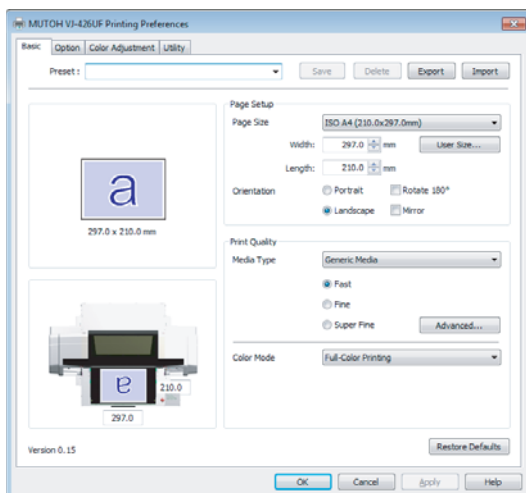
- The "Printer Configuration" dialog box opens only at the first click.
- The Printing Preferences screen of printer driver opens after the second click.

[3]



Select the ink color configuration and click [OK].

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



Printing Preferences screen of printer driver

Launching/Displaying/Finishing ValueJet Status Monitor (VSM)

Launching VSM



Windows 8/Windows8.1

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

Windows7/Vista/XP

Double click the VSM icon on the Desktop.

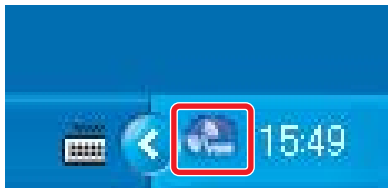


Note

Launching from the Start Menu of Windows

- Windows 8/Windows8.1
Right click somewhere the [Start] screen tiles are not displayed to display the application bar, and click [All Apps].
- Windows7/ Vista/XP
From the [Start] menu, click [All Programs] (or [Programs]) - [MUTOH] - [ValueJet Status Monitor].

Displaying VSM



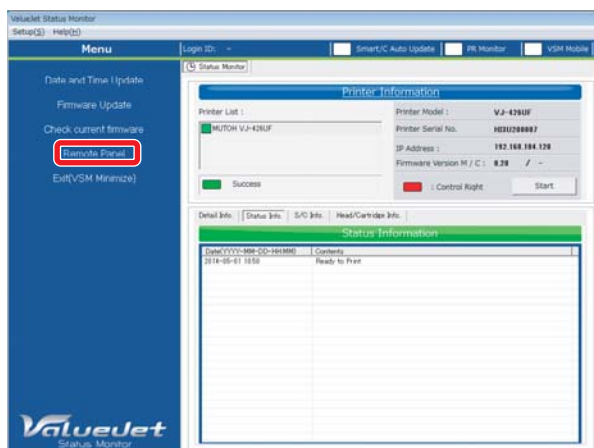
Double click the VSM icon in the task tray.

Displaying remote panel

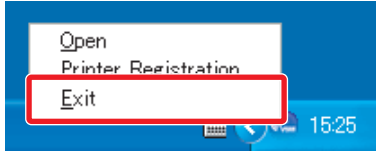
The remote panel is used to view this product's status or operate.

Click [Remote Panel].

- The remote panel opens.



Finishing VSM



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



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

Windows8.1

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

Launching ValueJet Finder

Windows 8/Window8.1

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.

Windows7/ Vista/XP

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

Launching ValueJet Layer Editor

Windows 8/Window8.1

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.

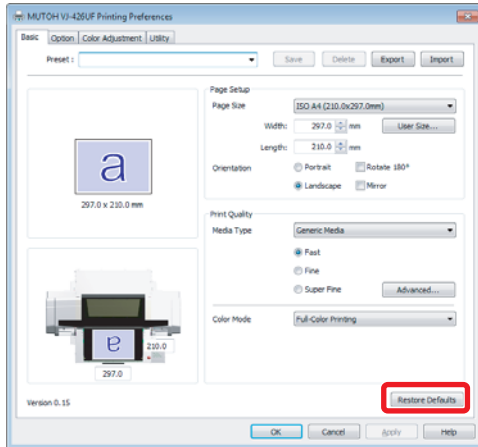
Windows7/ Vista/XP

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

Displaying Help

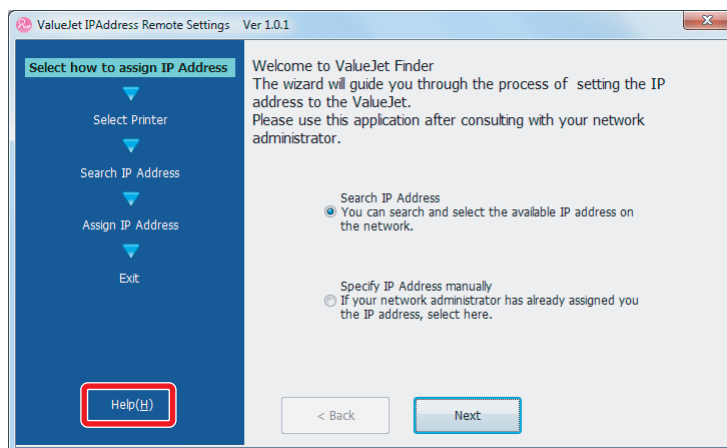
Printer driver

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



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

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 printing 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-LED light, because they could cause the ink on the print head surface to harden.

Cautions in 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 in its interior and carry out head cleaning automatically. If you do not put the printer into the sleep mode, the ink in its interior could settle out and/or coagulate, causing poor image quality or printer failure.

Shake the ink cartridges

Shake the ink cartridge before use. Shake the ink cartridges periodically. 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



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

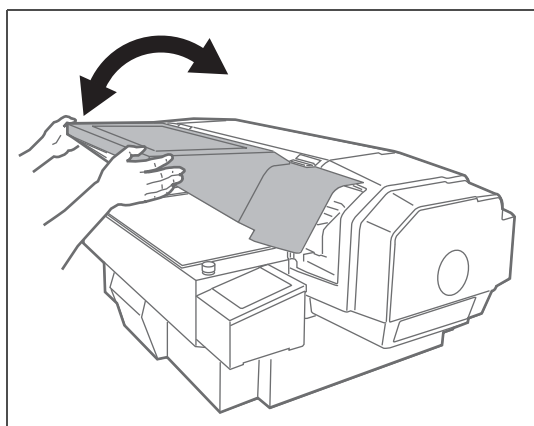


- Always close the front cover fully.

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 once a week. When left unused for a long time, the print head nozzles can get clogged causing damage.

Conduct periodic maintenance

This product requires daily maintenance.

- Check the nozzle before and after printing.
If nozzle clog is found, conduct a head cleaning.
- Clean the cleaning wiper once a week.
- When this product is not used for a long time (a week or more), conduct a head cleaning once a week.
- Clean its exterior and inside once a month.
- Drain waste ink in the waste liquid tank periodically.

Some parts need to be replaced periodically

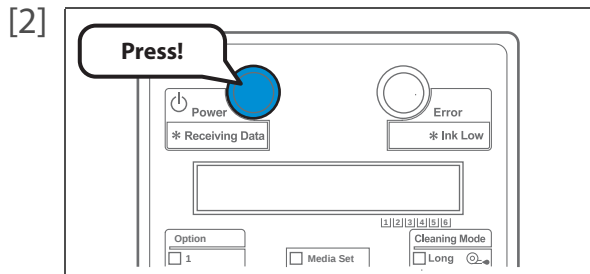
In this product, there are some parts required to be replaced after a long-term use.

- Parts required to be replaced by users: absorption material for the flushing box.
- Parts required to be replaced by service personnel: Various motors, print head, the pumps, the UV lamp

Powering ON/OFF

Turning the power ON

[1] Close the front cover.

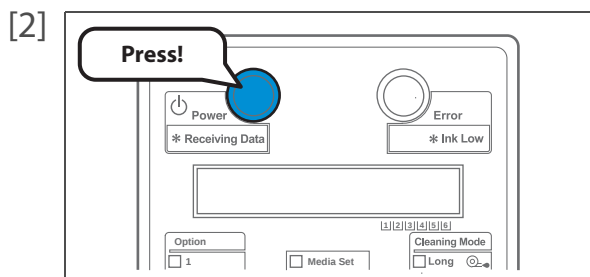


Press the power button of this product to turn the power ON.

- The blue light becomes ON.
- This product starts its initialization operations.

Turning the power OFF

[1] Make sure printing is done.



Press the power button of this product to turn the power OFF.

- This product starts its powering off operations.
- The blue light becomes 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. In the sleep mode, the printer will periodically circulate the ink in its interior and carry out head cleaning automatically. If you do not put the printer into the sleep mode, the ink in its interior could settle out and/or coagulate, causing poor image quality or printer failure.

Sleep Mode

When you are not using the printer, always leave the power on and put the printer into the sleep mode. If you do not put the printer into the sleep mode, the ink in its interior could settle out and/or coagulate, causing poor image quality or printer failure. The following operations are performed during sleep mode.

- Automatic Head cleaning is performed after the time set in the Timer Setting Menu has elapsed.
- Some of the ink inside the printer is circulated (every hour).
- Refills a small amount of ink (once a week).

Important!

To continue the sleep mode for seven days or longer, when seven days have passed, perform the following:

- Check the ink level and replace the relevant ink cartridge if "Ink level low" is displayed.
- Shake the ink cartridges.

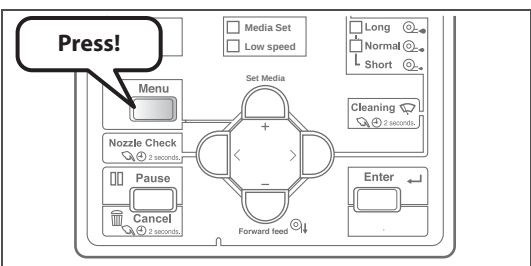
Steps

[1] Make sure that the printer's operating condition is as follows:

- Front cover is closed.
- There is ample amount of ink in the ink cartridges.
- There is enough free space in the waste fluid bottle.

Important!

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

[2]  Press the [Menu] key.

[3]  **Menu5:** **Sleep Mode>**

- Press the [-] key several times, to bring up the display on the left.
- Press the [>] key.

[4]  **SleepMode:** **Start**

Press the [Enter] key.

[5]  **Start Sleep Mode?**

Press the [Enter] key.

 **Restart -> Enter**

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

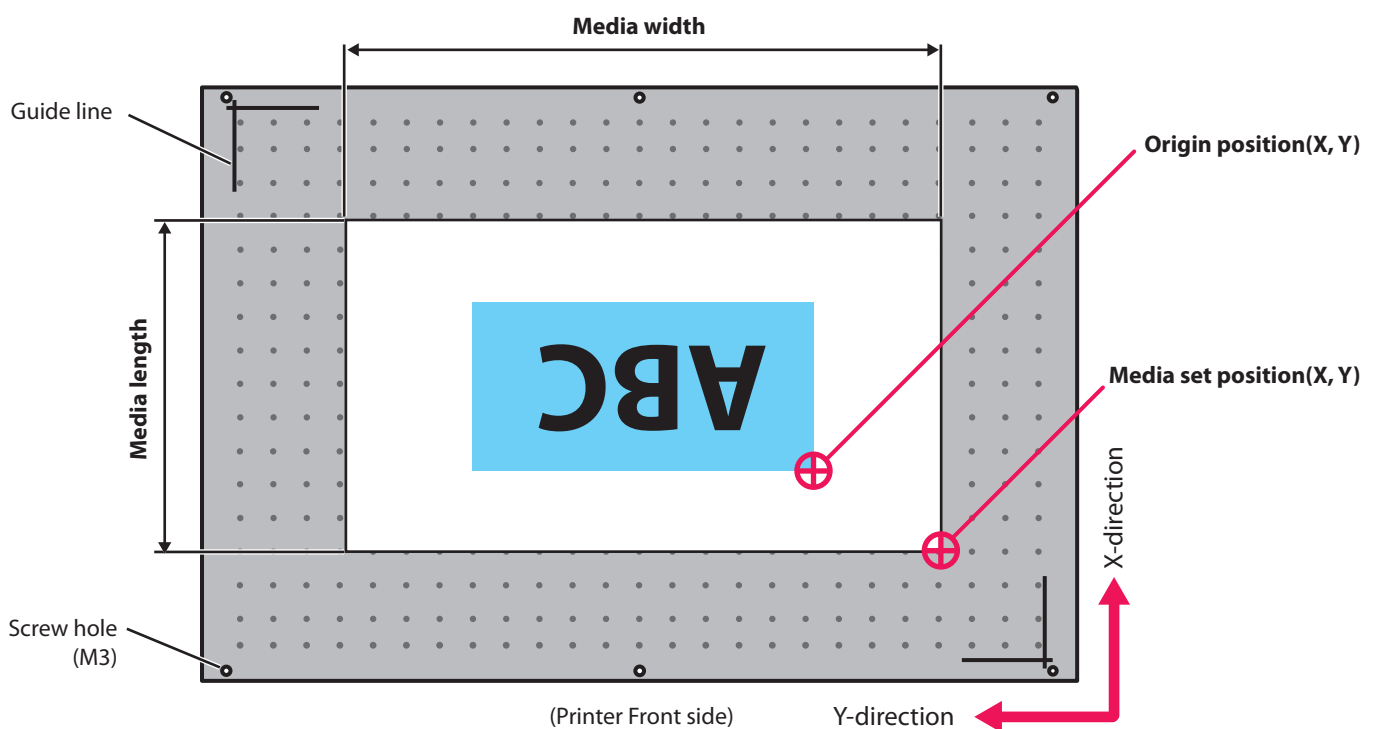
Note

- The power button flashes in blue while the printer is in the sleep mode.
- To set the sleep mode to come on by the timer, see ["SleepMode2: SetTimer" on page 75](#).
- The printer may automatically execute head cleaning and/or ink charging, etc., when it exits the sleep mode. Such operation will depend on the time that has elapsed since the last time. Such operation does not depend on the sleep mode settings. It is an automatic maintenance function of the printer.

Printing

Printing area

- Set the media size (width and length), media set position and origin position (print start position).
- Minimum margins from mediapaper set position to the origin position are 5 mm x 5 mm.
- The guide line indicates the maximum media size (483 x 329mm).
- 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).



Setting up 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]

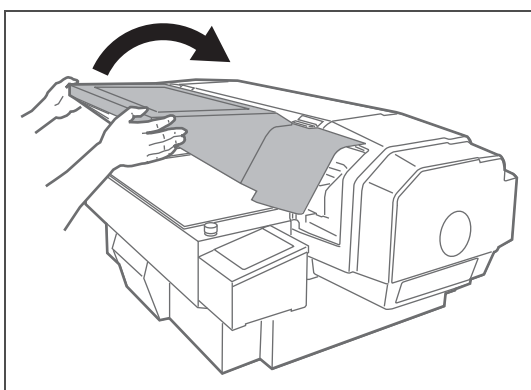
Set Media, then

press Set Media key.

Check that the message on the left is displayed.

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

[2]



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

- Open the front cover fully up as far as it will go.

CAUTION



Always open the front cover fully.

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

Set media, then

+ -

close cover.

+ -

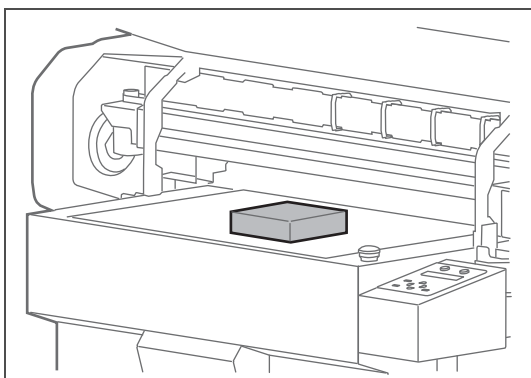
Check that the message on the left is displayed.



Note

- If the message on the left is displayed, you can use the [+] and [-] keys to alter the adsorption fan's intensity.
- Use this when you want to alter the adsorption fan's intensity according to the media's thickness.
- The adsorption fan will start operating when the [+] or [-] key is pressed.
- If you alter the setting, it will be reflected in the currently selected User Type.

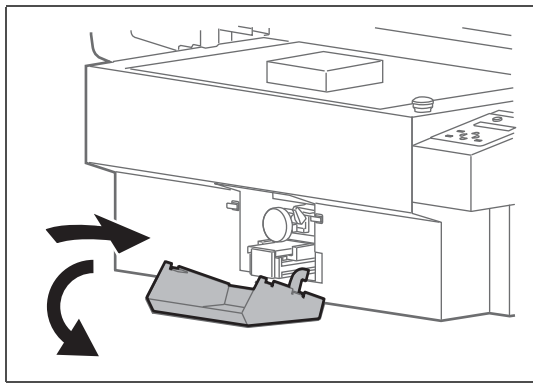
[3]



Place the media on the table.

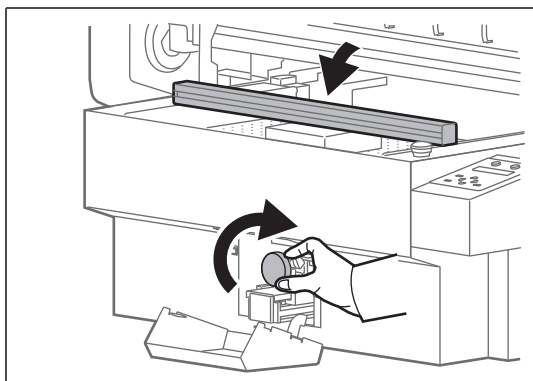
2. Adjusting the table's height

[1]



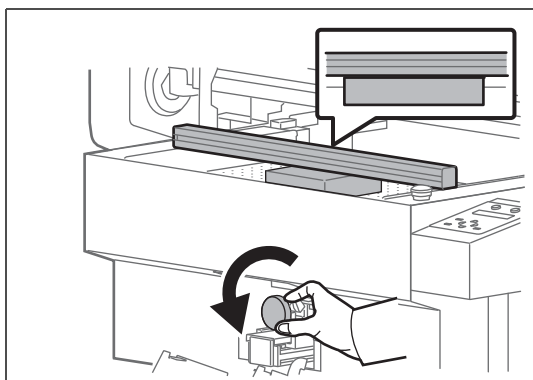
Open the PG handwheel cover, by pressing on it.

[2]



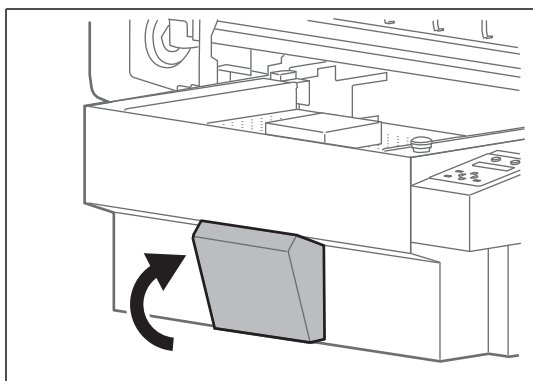
- Turn the PG handwheel to lower the table.
- Position the media height guide over the table.

[3]

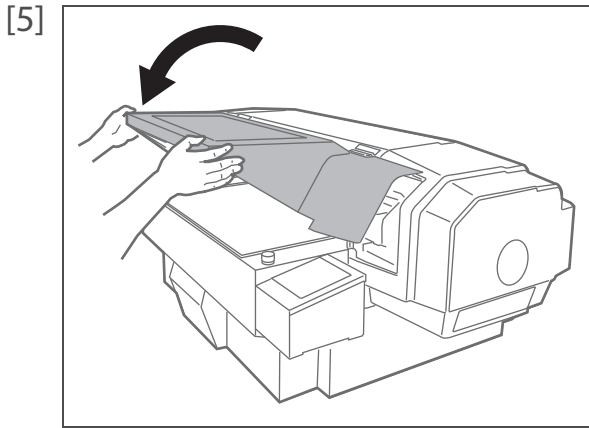


Turn the PG handwheel to raise the table to the position where the media touches the media height guide.

[4]



- 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.

[6] **Wait for a while**

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.

[7] **Detailed-Set :** **On**

Press the [Enter] key.



Important!

- This menu item 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 height, 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 height, media set position and origin position.

3. Inputting the media width and length

[1] **Width:** 483mm

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

 Note

- These menu items 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 media with width 483 mm is used, it will not be possible to 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 media with length 329 mm is used, it will not be possible to input an X-direction value for the set position.

4. Inputting the set position

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

Press the [Enter] key.

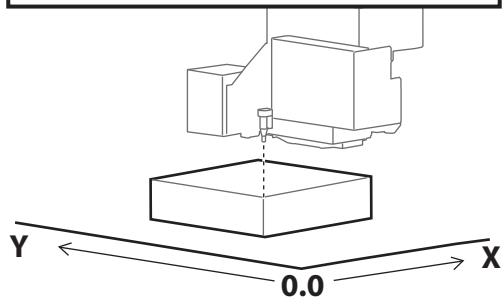
 Note

- These menu items 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

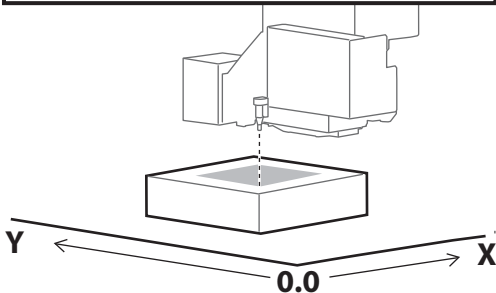


Use the keys to align the LED pointer right foreground of the media.

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

Press the [Enter] key to set the position.

5. Inputting the origin position

- [1] **Origin:** **On**
- Press the [Enter] key.
-  **Note**
- This menu item will only appear if "On" is set for "Detailed-Set".
 - If you select "Off" for this, the origin position set in the User Type will be X = 5.0, Y = 5.0.
- [2] **ORG** **X: 5.0 Y: 5.0**
- Press the [Enter] key.
-  **Note**
- If you know the media 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 (longitudinally).
 - Use the [<] / [>] key to move the LED pointer leftward/rightward (laterally).
- 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**
- Pressing and holding down the [Enter] key for 2 seconds or longer while "Ready to Print" is displayed will bring up an inputting menu for the media width, length, set position and origin position. Any values you input will be reflected in the currently selected User Type.

Nozzle check and cleaning

Before starting everyday operation, please check the nozzle. If nozzle clog is found, conduct cleaning.

This printer has the following 2 kinds of nozzle checks:

- Nozzle Check - Prints the nozzle check patterns
- Nozzle Check B - checks the nozzle for white ink. Prints the nozzle check patterns on a colored background, to make it easy to see the white ink nozzle's status.



Note

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

1. Nozzle check steps

- [1] Set the media to be used for the nozzle check on the table, and carry out the procedure as far as setting the origin position.

- Set an A4 size media sideways on the table.

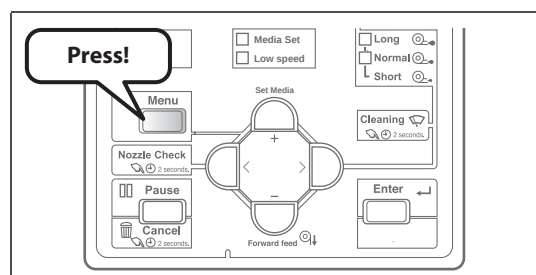
["Setting up media" on page 27](#)



Important!

- The 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.

[2]



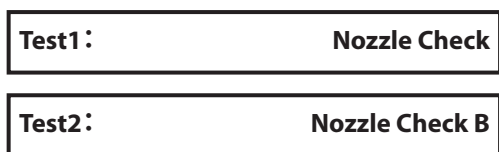
Press the [Menu] key.

[3]



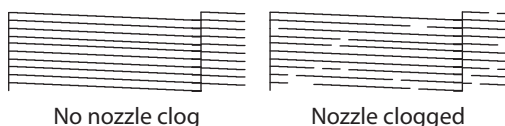
- Press the [-] key several times, to bring up the display on the left.
- Press the [>] key.

[4]



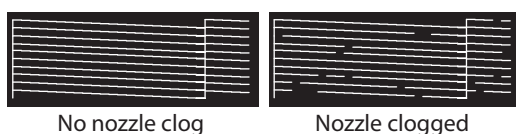
- Press the [Enter] key.
- To select Nozzle Check B, press the [-] key to display "Nozzle Check B", then press the [Enter] key.
- Nozzle check patterns will be printed.

[5]



Check the patterns.

- If there is nozzle clogging, go to ["Cleaning steps" on page 33](#).
- If there is none, go to ["Starting printing" on page 34](#).



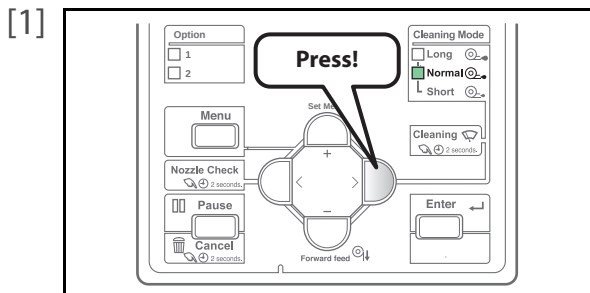
- When performing nozzle check B, part of the nozzle check pattern background is black (part of the white pattern).



Note

- For the KCMY nozzles, the background is printed in white ink.
- For varnish (and part of white) nozzles, the background is not printed.

2. Cleaning steps



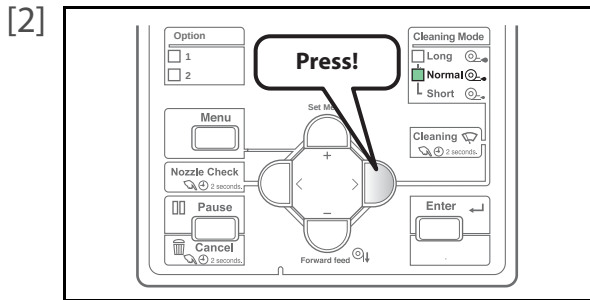
Press the [Cleaning] key, so that the “Normal” indicator (one of the “Cleaning Mode” indicators) lights steady.

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



Note

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



Give the [Cleaning] key a long press, for 2 seconds or more.

- Cleaning will start.

[3] Conduct a nozzle check, again.



["Nozzle check steps" on page 32](#)

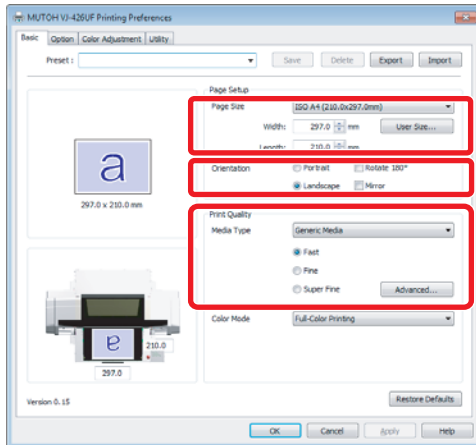
- If there is still nozzle clogging, repeat normal cleaning. See ["Head cleaning" on page 86](#) regarding “Short”, “Long” and “LittleCharge” cleaning.

Starting printing

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.

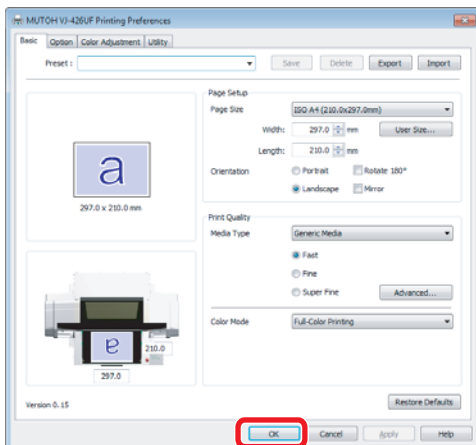
[3]



Conduct print setup.

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

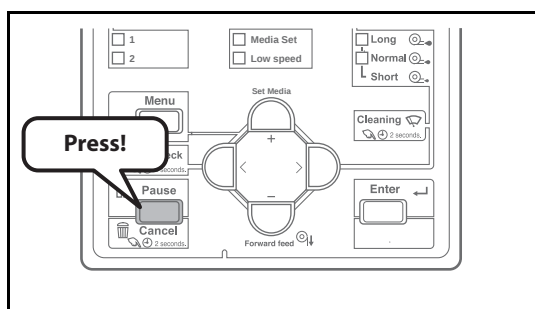
[4]



Click [OK].

[5] Printing is executed.

Pausing/Restarting printing



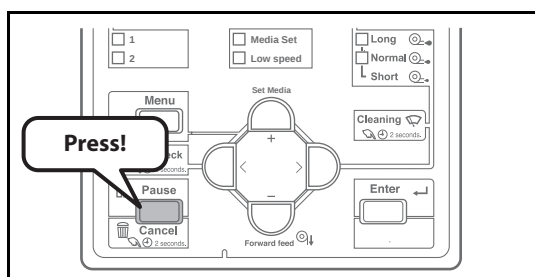
To halt printing, press the [Cancel] key.

- 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 35](#)

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

Receiving

Printing

Processing

- [2] Use the [+] / [-] key to select a menu item.
- ☞ ["Menu1: PF Micro Adjustment" on page 36](#)
 - ☞ ["Menu2: Backup" on page 36](#)
 - ☞ ["Menu3: Job Status" on page 37](#)
 - ☞ ["Menu4: Reset Waste Ink" on page 37](#)

Menu1 : PF Micro Adj.

Menu2 : Backup

Menu3 : Job Status

Menu4 : ResetWasteInk

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 53](#)

[1]

Menu1 :	PF Micro Adj.
----------------	----------------------

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

[2]

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

- 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]

Menu2:	Backup
---------------	---------------

Press the [Enter] key.

[2]

Update Parameter?

Press the [Enter] key.

* Parameter Updating *

The setting value will be saved.

Menu3: Job Status

This menu item displays data on the job being printed.

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

 ["Status3: Job Status" on page 74](#)

[1]

Menu3:

Job Status

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

[2]

ToDoLength:XXX.Xm

Done:XXX.Xm

Remain:XXX.Xm

Remain Time:Xmin

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

- ToDoLength: display this to check the total length (paper feed direction) of the job being printed.
- Done: display this to check how much of the current job has been printed.
- 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.



- 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 item to reset the waste ink counter to zero, if you empty out the waste ink tank during printing.

[1]

Menu4:

ResetWasteInk

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

[2]

Initial. Parameter?

Press the [Enter] key.

** Initializing **

The counter will be reset to zero.

Checking the print range

Once you have set this, you can check the print range by LED pointer before printing.

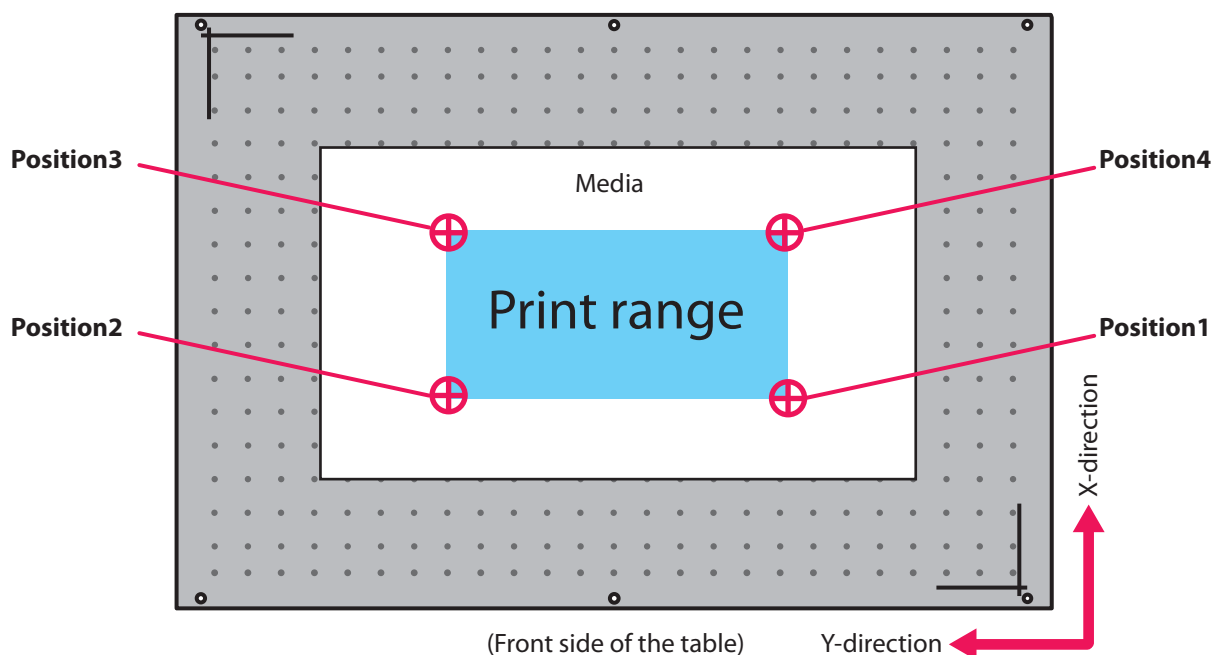
This is useful when you do not want to make a mistake, such as when printing on the media that you have only one of.

With this function, you can check the following:

- Whether or not the media position and the print range are misaligned
- Whether the print data is too big for the media

Operation

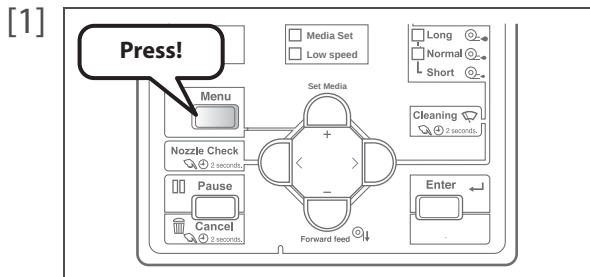
- Specify the four corners of the print range by the LED pointer.
- The LED pointer flashes (every second) on the point.
- The LED pointer lights up when moving from point to point.
- When the print data is too big for the media, the LED pointer flashes fast (twice a second) on the point.
- Move the 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 sent 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



Press the [Menu] key.



Press the [>] key.



Press the [Enter] key.



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

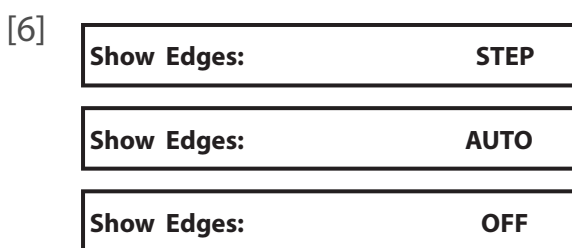
Important!

- 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 57](#)



- Press the [-] several times to display the left screen.
- Press the [Enter] key.



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

- Step: LED pointer checks with the user at the point on the four corners to show the print range.
- Auto: The LED pointer shows the print range without checking with the user.
- Off: The print range is not shown. This is the default setting.

[7] Press the [Enter] key to confirm.

2. How to check the print range

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

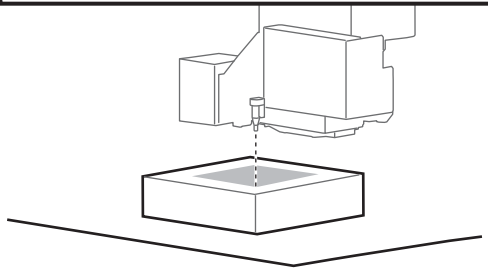
Note

If you press the [Cancel] key, printing starts without checking the print range.

Wait for a while

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

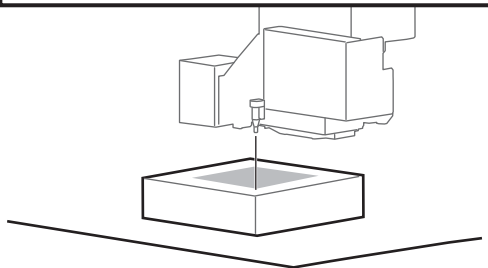
Confirming PrintArea



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

[2]

Position 1 OK?

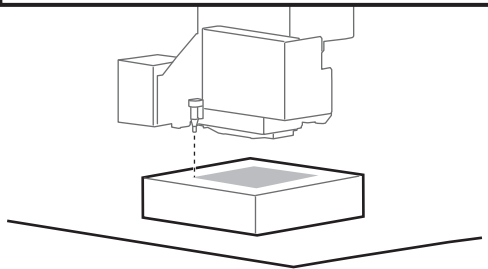


Check that the LED pointer's position is not misaligned with the media position, and then press the [Enter] key.

Note

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

Confirming PrintArea



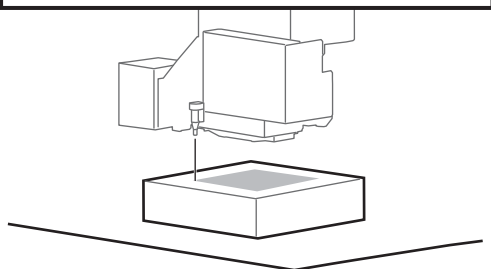
- The LED pointer moves to the bottom left corner of the print range (position2).
- The LED pointer remains on while moving.
- After moving, the LED pointer flashes every second, for a total of 3 times.

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?



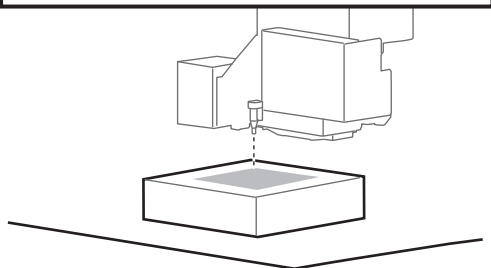
Check that the LED pointer's position is not misaligned with the media position, and then press the [Enter] key.



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.

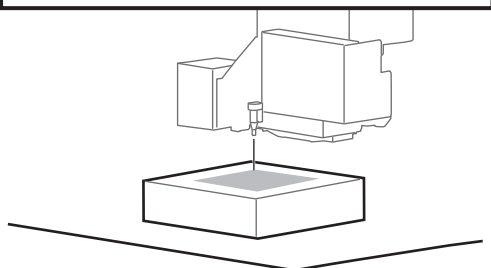


Note

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 1 OK?



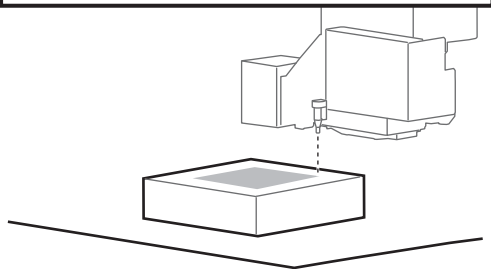
Check that the LED pointer's position is not misaligned with the media position, and then press the [Enter] key.



Note

- The LED pointer remains on until the [Enter] key is pressed.
- 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 left 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.

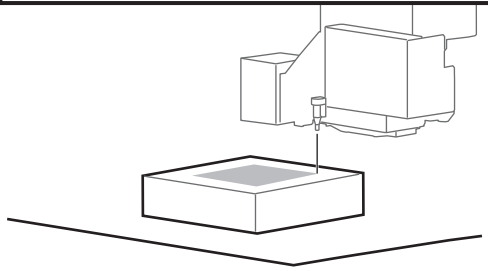


Note

- 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?

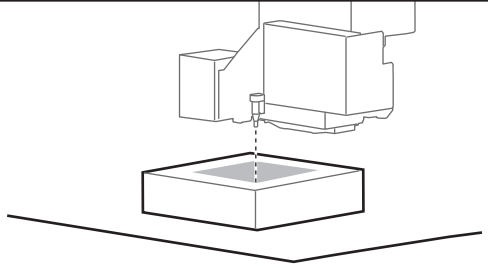


Check that the LED pointer's position is not misaligned with the media position, and then press the [Enter] key.

 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 (capped).
- Checking the print range is complete.

[6]

Start Printing ?

Press the [Enter] key to start printing.

 Note

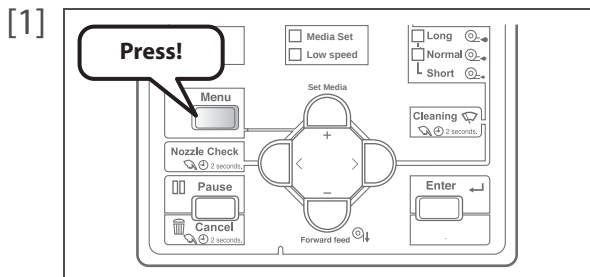
- Printing is canceled when the [Cancel] key is pressed.

Applying additional UV light after printing

When you want to promote ink curing, you can apply UV-LED light additionally 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 ink film is thick from layer printing



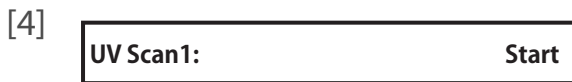
After printing, press the [Menu] key.



- Press the [-] several times to display the left screen.
- Press the [>] key.



- Press the [-] several times to display the left screen.
- Press the [Enter] key.



- Press the [Enter] key.
- UV-LED light application starts.

Note

- The range to apply the UV-LED 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 71](#)
- To apply additional UV-LED light automatically every time after printing, see the following.
["UV Scan3: Post Cure" on page 71](#)

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

["Mnt.3: UV Scan" on page 71](#)

Doing layer printing

This printer has the capability for layer printing.

- For details of layer printing, which uses ValueJet Layer Editor, see the ValueJet Layer Editor Operation Manual.

☞ "Displaying Help" on page 20

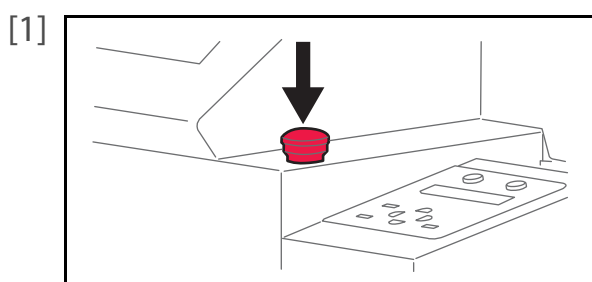
- See the following related sections of Panel Setting Menus (Chapter 2 below):

☞ "Adv. 1: Multi Strike" on page 60

☞ "Adv. 9: Multi Layer" on page 64

Emergency stop button

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



Press the emergency stop button.

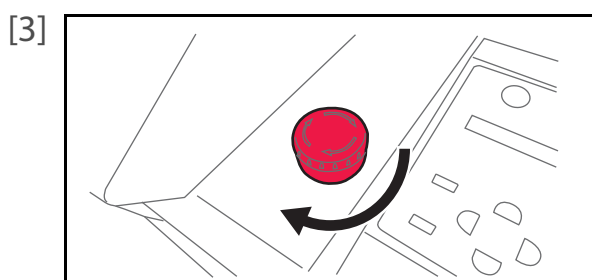
- The printer will stop operation.

Emergency Stop

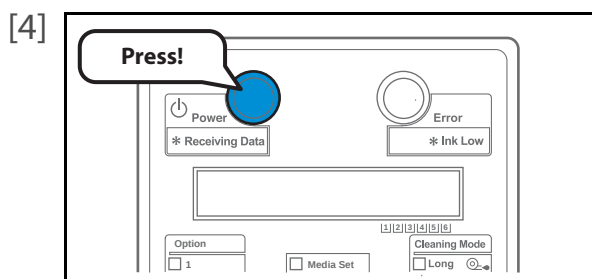
Reboot a printer

The message on the left will appear.

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



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



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

Chapter 2 Advanced Operations

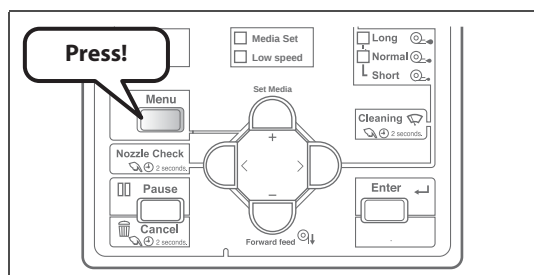
- Introduction 46
 - Operating the keys to use the menus 46
 - Panel setup menu 47
- Menu1: Setup 49
 - Set1: User Type 49
 - Set2: Advanced 59
 - Set3: Initial Settings 65
 - Set4: Initialize 67
- Menu2: Test Print 68
 - Test1: Nozzle Check 68
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 - Test3: Mode Print 68
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- Menu3: Maintenance 70
 - Mnt.1: Cleaning 70
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- Menu5: Sleep Mode 75
 - SleepMode1: Start 75
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Introduction

The panel setting menus can be used to carry out various kinds of settings for the printer.

Operating the keys to use the menus

[1]



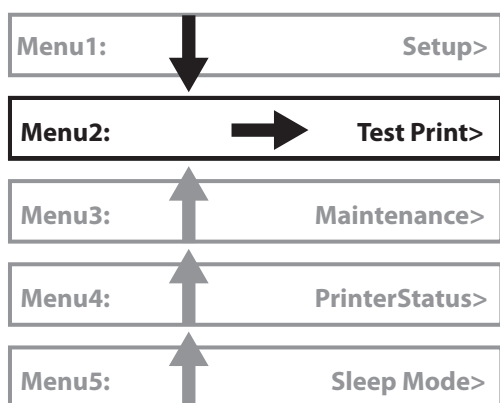
To access the panel setting menus, press the [Menu] key.



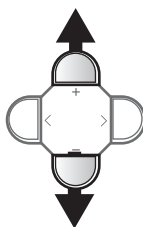
Note

The panel setting menu cannot be accessed during printing or while data is being received (the power button is flashing).

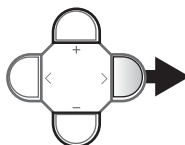
[2]



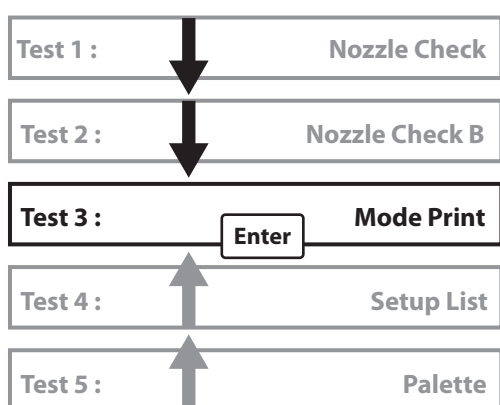
Use the [+] / [-] key to scroll through the menus.



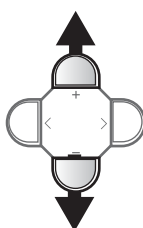
Press the [>] key to access the menu you are on.



[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 (the previous higher level)

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



Panel setup menu

Menu1: Setup

Menu 1 : Setup>

Various settings of the printer are configured.

Submenus

Set 1 : User Type

 ["Set1: User Type" on page 49](#)

Set 2 : Advanced>

 ["Set2: Advanced" on page 59](#)

Set 3 : Init.Settings>

 ["Set3: Initial Settings" on page 65](#)

Set 4 : Initialize

 ["Set4: Initialize" on page 67](#)

Menu2: Test Print

Menu 2 : Test Print>

Performs nozzle check of the print head and setup list.

Submenus

Test 1 : Nozzle Check

 ["Test1: Nozzle Check" on page 68](#)

Test 2 : Nozzle Check B

 ["Test2: Nozzle Check B" on page 68](#)

Test 3 : Mode Print

 ["Test3: Mode Print" on page 68](#)

Test 4 : Setup List

 ["Test4: Setup List" on page 69](#)

Test 5 : Palette

 ["Test5: Palette" on page 69](#)



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

Mnt. 1 :	Cleaning	 "Mnt.1: Cleaning" on page 70
Mnt. 2 :	CR Maintenance	 "Mnt.2: CR Maintenance" on page 70
Mnt. 3 :	UV Scan	 "Mnt.3: UV Scan" on page 71
Mnt. 4 :	Ink Discharge	 "Mnt.4: Ink Discharge" on page 72
Mnt. 5 :	ResetWasteInk	 "Mnt.5: ResetWasteInk" on page 72

Menu4: Printer Status

Menu 4 : PrinterStatus>

This provides displays of the printer's status.

Submenus

Status 1 :	Ink	 "Status1: Ink" on page 73
Status 2 :	Lifetimes	 "Status2: Lifetimes" on page 73
Status 3 :	Job Status	 "Status3: Job Status" on page 74
Status 4 :	Version	 "Status4: Version" on page 74
Status 5 :	SerialNo.	 "Status5: SerialNo." on page 74

Menu5: Sleep Mode

Menu 5 : Sleep Mode>

Sleep mode settings are configured.

Submenus

SleepMode 1 :	Start	 "SleepMode1: Start" on page 75
SleepMode 2 :	SetTimer	 "SleepMode2: SetTimer" on page 75

Menu1: Setup

Set1: User Type

The User Type are is a kind of presets 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. Therefore, be careful with the print start position. Therefore, pay attention to the print start position, or 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 are 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

Making media settings.

Submenus

**> 1 : Print Mode

 [***>1: Print Mode" on page 50](#)

**> 2 : Adjust Print>

 [***>2: Adjust Print>" on page 51](#)

**> 3 : PF Adjust>

 [***>3: PF Adjust" on page 53](#)

**> 4 : Vacuum Fan

 [***>4: Vacuum Fan" on page 56](#)

**> 5 : MediaSetting>

 [***>5: MediaSetting" on page 57](#)

* *> 6 : Low Speed

 [***> 6 : Low Speed" on page 58](#)

**>7: Show Edges

 [***>7: Show Edges" on page 58](#)

**> 8 : User Copy

 [***>8: User Copy" on page 58](#)

**> 9 : Initialization

 [***>9: Initialization" on page 58](#)

**>1: Print Mode

**> 1 :

Print Mode

Making settings for print mode

- Pressing the [>] key while a mode is displayed will bring up detailed information on that mode (resolution, number of passes, print direction), which will be displayed for as long as the key is held down.
- After setting the print mode, go on to setting of effect.

Setting values

Mode : Fast ->

Printing prioritizes speed.

Mode : Fine ->

This is the initially set value.

Mode : Super Fine ->

Printing prioritizes print quality.

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 :

Fast ->

Sets up the Effect menu.

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 used.

Effect : i-Weave UV

The printing joint will shade off.
This is the initially set value.

**> 2:

Adjust Print>

Sets up when adjusting the printer for the optimum quality of image print.

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

-  ["1. Confirm pattern" on page 52](#)
-  ["2. Rough adjustment pattern" on page 52](#)
-  ["3. Fine adjustment pattern" on page 52](#)

Submenus

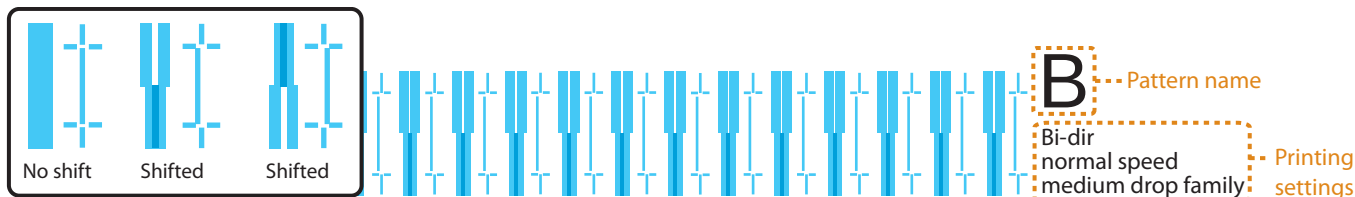
Adj. 1 :	Confirm Ptn.	For printing checking patterns.
Adj. 2 :	RoughPtn. ALL	For printing rough adjustment patterns A to C and entering adjustment values.
Adj. 3 :	RoughPatternA	For printing rough adjustment pattern A only and entering an adjustment value.
Adj. 4 :	RoughPatternB	For printing rough adjustment pattern B only and entering an adjustment value.
Adj. 5 :	RoughPatternC	For printing rough adjustment pattern C only and entering an adjustment value.
Adj. 6 :	Fine Ptn. ALL	For printing fine adjustment patterns A to C and entering adjustment values.
Adj. 7 :	Fine Ptn. A	For printing fine adjustment pattern A only and entering an adjustment value.
Adj. 8 :	Fine PatternB	For printing fine adjustment pattern B only and entering an adjustment value.
Adj. 9 :	Fine PatternC	For printing fine adjustment pattern C only and entering 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".

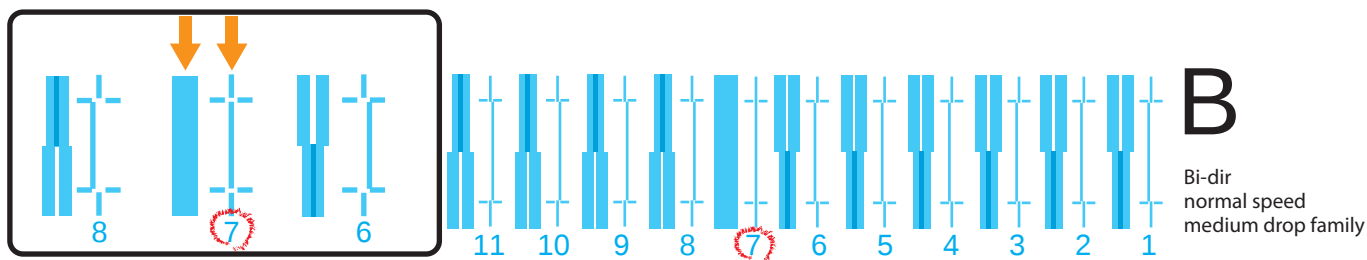
1. Confirm pattern

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



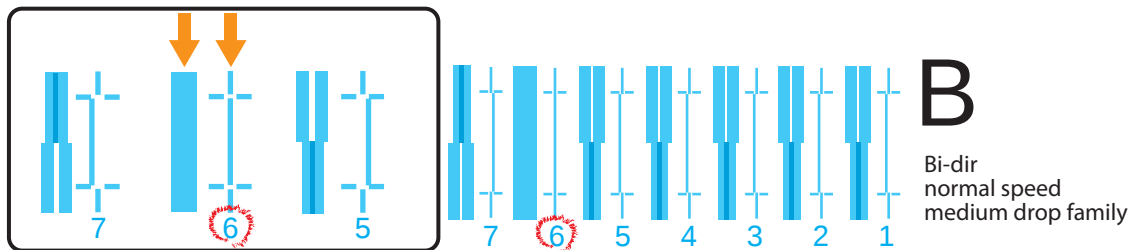
2. Rough adjustment pattern

- Press the [Enter] key to carry out printing.
- Look for and mark a number printed under a pattern that has least shifting.
- "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".



3. Fine adjustment pattern

- Press the [Enter] key to carry out printing.
- Look for and mark a number printed under a pattern that has least shifting.
- "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>

Sets up various settings on the Media feed correction.

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

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

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

Submenus

PF1 :	Initial Print	 "1. PF 1. Initial Print" on page 54
PF2 :	Initial Change	 "2. PF2. Initial Change" on page 54
PF3 :	Confirm Print	 "3. PF3. Confirm Print" on page 55
PF4 :	Micro Print	 "4. PF4. Micro Print" on page 55
PF5 :	Micro Change	 "5. Micro Change" on page 56

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 as the “Micro Change”.

1. 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.

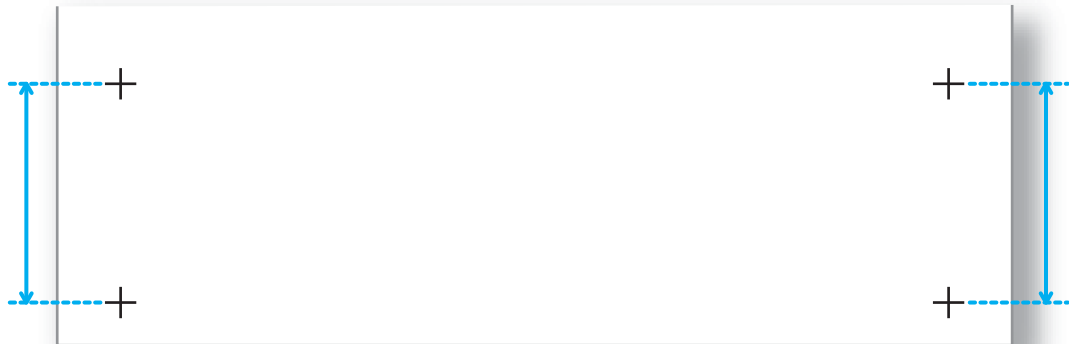
Setting values

FeedLength :

300mm

100 mm to <250 mm> to 300mm
<> indicates the initial value.

- 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.

2. 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. :

290.0/300mm

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

3. PF3. Confirm Print

PF3 : Confirm Print

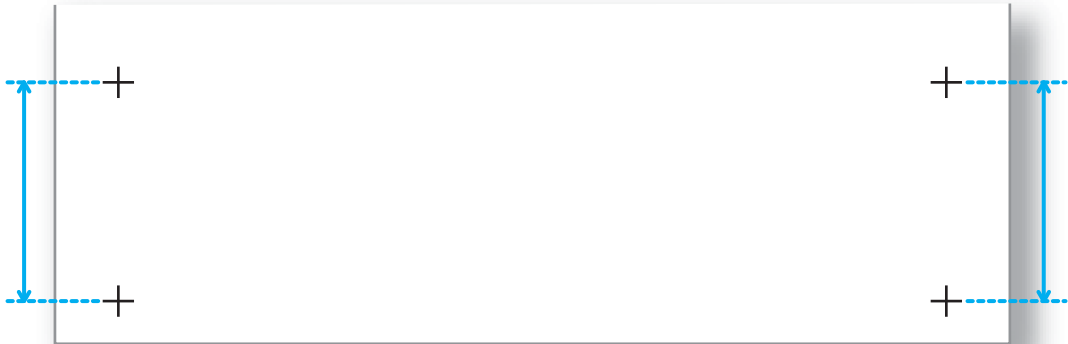
Performs Confirm Print. Enter the "FeedLength", and press the [Enter] key. Print a "+" mark at the beginning, feed the media according to the setting value, and print another "+" mark.

Setting values

FeedLength : 300mm

100 mm to <250 mm> to 300mm
<> indicates the initial value.

- 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. "Micro Print".
- In the example below, the measured place is shown in blue dotted lines and arrows (the blue parts are not actually printed).



4. PF4. Micro Print

PF4 : Micro Print

Pressing the [Enter] key when the words on the left are displayed will execute micro adjustment printing.

- Observe the pattern and verify the micro change 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 change value.

Not adequate

Adequate

Not adequate

- 0 . 10

- 0 . 20

- 0 . 50

↓

Micro change value



Note

The micro change value saved becomes the pattern's standard value.
For example, if "-0.20" is saved as the micro change 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".

5. 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 initial value.

**>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>/Midium-Hi/ Midium/ Low/ Off
<> indicates the initial value.

Vacuum Fan :

Medium - Hi

Vacuum Fan :

Medium

Vacuum Fan :

Low

Vacuum Fan :

Off

** > 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 height, 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 height, media set position and origin position.

** > 6 : Low Speed

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

Use this when you want a slower printing speed.

- Setting this when you are going to print onto a media with irregular surfaces or level differences (such as a golf ball, ballpoint pen or smartphone case) will enhance the image quality.
- If you set anything other than "Off" for this, the "Low speed" indicator will light steady.

Setting values

Low Speed :	Off	The printing speed will not be lowered. This is set initially.
Low Speed :	50 %	The printing speed will be lowered to 50%.
Low Speed :	25 %	The printing speed will be lowered to 25%.

**>7: Show Edges

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

You can use the LED pointer to check the circumference of the print range and the positions of the corners before printing.

 ["Checking the print range" on page 38](#)

Setting values

Show Edges:	Step	The LED pointer checks with the user at the point on the four corners to show the print range.
Show Edges:	Auto	The LED pointer shows the print range without checking with the user.
Show Edges:	Off	The print range is not checked. This is the default setting.

**>8: User Copy

****> 8 :** **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" and "Show Edges".

Setting values

UserCopy : Type ** ->	1	Here you can select the User Type to copy the settings into.
UserCopy : Type ** ->	ALL	If you select ALL, the settings will be copied into all the User Type.

**>9: Initialization

****> 9 :** **Initialization**

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

Set2: Advanced

Set2 : **Advanced >**

Various settings of the printer are configured.

Submenus

Adv.1 :	Multi Strike	 "Adv. 1: Multi Strike" on page 60
Adv.2 :	Pass Wait	 "Adv. 2: Pass Wait" on page 61
Adv.3 :	Head Travel	 "Adv. 3: Head Travel" on page 61
Adv.4 :	FrtInterlace	 "Adv. 4: Front Interlace" on page 61
Adv.5 :	BtmInterlace	 "Adv. 5: BtmInterlace" on page 61
Adv. 6 :	Header Dump	 "Adv. 6: Header Dump" on page 62
Adv.7 :	Spitting	 "Adv. 7: Spitting" on page 62
Adv.8 :	AutoCleaning>	 "Adv. 8: Auto Cleaning" on page 63
Adv.9 :	Multi Layer	 "Adv. 9: Multi Layer" on page 64
Adv.10 :	White Mainte.	 "Adv.10: White Maintenance" on page 64

*This only appears when 6-color is set.

Adv. 1: Multi Strike

Adv.1 : Multi Strike

Sets up the overwrite count per line.

- The display will shift to setting of layer printing number of strikes only when 6-color is set and the number of strikes is 1.

Setting values

Strike Cnt : 1 cnt

<1 times> to 9 times
<> indicates the initial value.

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 60](#)

Layer Multi Str.2 : Wh

 ["Layer Multi Str.2: Wh" on page 60](#)

Layer Multi Str.3 : Va

 ["Layer Multi Str.3: Va" on page 60](#)

Layer Multi Str.1: Co

Layer Multi Str.1 : Co

The display will shift to setting of number of color (CMYK) strikes.

Setting values

Color : 1 cnt

<1 times> to 9 times
<> indicates the initial value.

Layer Multi Str.2: Wh

Layer Multi Str.2 : Wh

The display will shift to setting of number of white ink strikes.

Setting values

White : 1 cnt

<1 times> to 9 times
<> indicates the initial value.

Layer Multi Str.3: Va

Layer Multi Str.3 : Va

The display will shift to setting of number of varnish (clear topcoat) strikes.

Setting values

Varnish : 1 cnt

<1 times> to 9 times
<> indicates the initial value.

Adv. 2: Pass Wait

Adv.2 : Pass Wait	Set up the strike wait time while overwrite printing as well as regular printing.
Setting values	
Pass Wait : 0.0sec	<0.0 sec.> to 5.0 sec. <> indicates the initial value.

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 set initially.

Adv. 4: Front Interlace

Adv.4 : FrtInterlace	This menu is used to set media edge treatment menu.
Setting values	
FrontInterlace : On	<On> / Off <> indicates the initial value.

Adv. 5: BtmInterlace

Adv.5 : BtmInterlace	Sets the BtmInterlace function.
Setting values	
BottomInterlace : On	<On> / Auto <> indicates the initial value.

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 set initially.

Header Dump : On

Dump data is printed after the original
image is printed.

Header Dump : Dump

Prints only dump data.
"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

Sets up the spitting operation while printing.

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

Setting values

Spitting : On

<On> / Off
<> indicates the initial value.



Note

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

Pass Count

Spitting : On

This is for setting the interval at which the print head will carry out spitting operation.

- 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



Note

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>

This is for setting the duration for which auto cleaning will be carried out during standby, before printing, and during printing.

Submenus

Auto1 : Waiting Time

 ["Auto1: Waiting Time" on page 63](#)

Auto2 : PrintingTime

 ["Auto2: Printing Time" on page 63](#)

Auto3 : Before Print

 ["Auto3: Before Print" on page 63](#)

Auto1: Waiting Time

Auto1 : Waiting Time

For setting whether auto cleaning will be carried out before printing.

Setting values

Time : Off

<Off> / 10 min. to 1440 min.
<> indicates the initial value.

Auto2: Printing Time

Auto2 : PrintingTime

Set the auto cleaning interval during printing.

Setting values

Time : Off

<Off> / 5 min. to 180 min.
<> indicates the initial value.

Auto3: Before Print

Auto3 : Before Print

Set the value for auto cleaning before printing.

Setting values

Before Print : Off

<Off> / On
<> indicates the initial value.

Adv. 9: Multi Layer

Adv.9 : Multi Layer

This is for setting layer printing.

Setting values

Multi Layer : Off

<Off> / On
<> indicates the initial value.

Note

- If you select "Off" for this, then when printing of a print data set ends, you will have to set the media in place again before sending the next data set.
- If you select "On" for this, then the media status will be retained when printing of a print data set ends, and by sending the next data set you can print another layer over the previous printing.
 - 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 Mainte.

Sets up white ink's maintenance operation.

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

Setting values

White Mainte. : Normal

White ink maintenance operation will be carried out at a normal frequency. This is set initially.

White Mainte. : 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>

Display language or unit for LCD is configured. IP addresses are also configured.

Submenus

Initial1 : Language

 ["Initial1: Language" on page 65](#)

Initial2 : Length

 ["Initial2: Length" on page 65](#)

Initial3 : Remain Ink

 ["Initial3: Remain Ink" on page 65](#)

Initial4 : IP Address

 ["Initial4: IP Address" on page 66](#)

Initial5 : Subnet Mask

 ["Initial5:Subnet Mask" on page 66](#)

Initial6 : Gateway

 ["Initial6: Gateway" on page 66](#)

Initial1: Language

Initial1 : Language

Performs head washing using cleaning fluid.

Setting values

Lang. : エイゴ English

Displays will be in English.
This is set initially.

Lang. : ニホンゴ Japanese

Displays the menu items in Japanese.

Initial2: Length

Initial2 : Length

For setting the length units that will be displayed.

Setting values

Length : mm

Displays the length in millimeters (mm).

Length : inch

Displays the length in inches (inch).

Initial3: Remain Ink

Initial3 : Remain Ink

For setting how the remaining ink amount will be displayed.

Setting values

Remain Ink : On

Remaining ink icons will be displayed.

Remain Ink : Off

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

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 initial value.

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 initial value.

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 initial value.

Set4: Initialize

Set 4 : Initialize

Returns the settings of the printer to default.

Submenus

Init. : User Type ALL

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

Init. : Advanced

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

Init. : Init.Settings

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

Init. : ALL

For initializing the settings of all the menus.

Menu2: Test Print

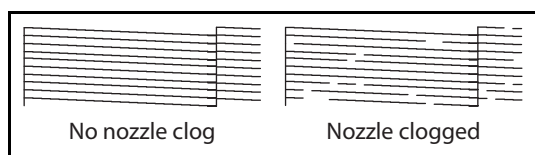
Test1: Nozzle Check

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 32](#)



Test2:Nozzle Check B

Test 2 : Nozzle Check B

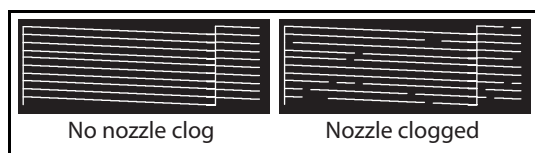
This is nozzle check for white ink.

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 32](#)



Note

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

Test3: Mode Print

Test 3 : Mode Print

- Mode print can be performed.
 - 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.)

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

Setup List

[illegible]

User Type List

C:\User Type List >										
User Type	Type 1	Type 2	Type 3	Type 4	Type 5					
Print Mode	Fine	Fast	Fine	Fine	Fine					
Print Mode<Effect	1-Beave UV	1-Beave UV	1-Beave UV	1-Beave UV	1-Beave UV					
PS>Initial Adjust	250.0/250m	250.0/250m	250.0/250m	250.0/250m	250.0/250m					
PS>Initial Length	0.00%	0.00%	0.00%	0.00%	0.00%					
Vacuum Fan	Medium	Medium	High	Low	Medium					
Media>Size Width	420	420	483	420	483					
Media>Length	292	292	329	292	329					
Media>Location	Off	Off	Off	Off	Off					
Media>Origin	On	Off	Off	Off	Off					
Media>Detail-Set Size	Off	Off	Off	Off	Off					
Low Speed	Off	Off	Off	Off	Off					

User Type	Type 6	Type 7	Type 8	Type 9	Type 10
Print Mode	Fine	Fast	Print	Print	Print
Print Mode<Effect	1-Beave UV	1-Beave UV	1-Beave UV	1-Beave UV	1-Beave UV
PS>Initial Adjust	250.0/250m	250.0/250m	250.0/250m	250.0/250m	250.0/250m
PS>Initial Length	0.00%	0.00%	0.00%	0.00%	0.00%
Vacuum Fan	High	High	Low	Low	High
Media>Size Width	483m	483m	483m	483m	483m
Media>Length	329m	329m	329m	329m	329m
Media>Location	Off	Off	Off	Off	Off
Media>Origin	Off	Off	Off	Off	Off
Media>Detail-Set Size	Off	Off	Off	Off	Off
Low Speed	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.)

(Required media size: width 210 mm x length 210 mm.)



Menu3: Maintenance

Mnt.1: Cleaning

Mnt. 1 : **Cleaning**

Perform Head cleaning.

Submenus

Cleaning : **Short**

Consumes less ink than Normal cleaning.

Time : **Normal**

Conduct nozzle check before and after printing, and use when nozzle clogging is found.

Time : **Long**

Consumes more ink than Normal cleaning. When nozzle clogging still occurs after Normal cleaning, conduct Long cleaning.

Time : **LittleCharge**

Though much better cleaning results can be expected than Long cleaning, it consumes a large amount of ink.

Time : **InitialCharge**

Gives a rather higher cleaning effect than "LittleCharge", but also consumes rather more ink. When "Empty WasteInk ->E" appears, empty out the waste ink and press the [Enter] key.

 ["Transfer the waste ink" on page 84](#)

Mnt.2: CR Maintenance

Mnt. 2 : **CR Maintenance**

Performs maintenance.

Use this for carrying out the operations below.

- ["Cleaning of cleaning wiper" on page 88](#)
- ["Cleaning of print head circumference" on page 91](#)
- ["Cleaning the circumference of the cap" on page 93](#)
- ["Replacing absorption material for the flushing box" on page 97](#)

Submenus

CR Mainte. : **Start**

Performs maintenance.

CR Mainte. : **End**

Completes maintenance.

Mnt.3: UV Scan

Mnt. 3 :

UV Scan

A function for executing just UV scanning.

Use this when you want to promote ink curing by applying the UV-LED light additionally.

Submenus

UV Scan1 :

Start

 ["UV Scan1: Start" on page 71](#)

UV Scan2 :

Scans

 ["UV Scan2: Scans" on page 71](#)

UV Scan3 :

Post Cure

 ["UV Scan3: Post Cure" on page 71](#)



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

UV-LED light application is performed manually.

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 the UV-LED light.

Setting

UV Scan1 :

Start

Press the [Enter] key to start.

UV Scan2: Scans

UV Scan2 :

Scans

You can select the number of reciprocating motions for every 1 inch in the media feeding direction while performing UV scanning.

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

Setting

UV Scans:

4

2/<4>/8/12

The item in < > indicates the default setting.

UV Scan3: Post Cure

UV Scan3 :

Post Cure

When it is set to "On", UV-LED light is additionally applied automatically even time after printing.

Setting

Post Cure:

Off

<Off>/On

The item in < > indicates the default setting.

Mnt.4: Ink Discharge

Mnt. 4 :	Ink Discharge
----------	---------------

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

 ["Transporting" on page 100](#)

Mnt.5: ResetWasteInk

Mnt. 5 :	ResetWasteInk
----------	---------------

This resets the waste ink counter to zero.

 ["Resetting waste ink counter" on page 85](#)

Menu4: Printer Status

Status1: Ink

Status 1 : Ink

Displays the various information about ink cartridge.

Submenus

1 2 3 4 : 100 / 90 / 80 / 70

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

5 6 : 100 / 90

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[Head]" 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

Print head remaining life display

Pump: E*** F

Pump remaining life display

CR Motor : Change

CR moter remaining life display

PF Motor : E**** F

PF motor remaining life display

CPump : E*** F

Circulation pump remaining life display

UV Lamp : E*** F

UV lamp remaining life display

WasteInkTank : E*** F

Waste ink tank remaining life display

Status3: Job Status

Status 3 : Job Status

Various information of previous print will be displayed.

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

The total length of print data (media feeding direction) will be displayed.

Done : XXX.X m

The printed length will be displayed.

Remain : XXX.X m

The remaining length of print data will be displayed.



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 37

Status4: Version

Status 4 : Version

Displays the versions of the firmware.

Submenus

Version: 1.00

Status5: SerialNo.

Status 5 : SerialNo.

Displays the printer's serial number.

Submenus

SerialNo. : HI3U000000

Menu5: Sleep Mode

SleepMode1: Start

SleepMode 1 : Start

Start Activate Sleep Mode.
 ["Sleep Mode" on page 25](#)

SleepMode2: SetTimer

SleepMode 2 : SetTimer

This is for setting the interval at which head cleaning will be carried out in the sleep mode.

Setting values

CleaningTimer : Off

<Off>/ 1/2/3/4/5/6/9/12/18/24 hours
<> indicates the initial value.
If you set an interval, the display will shift to "SleepMode 1: Start".

Important!

During Sleep Mode, even if the set amount of time has passed, print-head cleaning is not performed under the following circumstances.

- 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.

Chapter 3 Maintenance

- Maintenance 78
- Wearing the gloves and goggles 79
 - How to wear the supplied gloves 79
- Shaking ink cartridges 80
 - Shaking ink cartridges..... 80
- Checking ink and replacing ink cartridge 82
 - Checking ink level..... 82
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- Emptying waste ink tank 84
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- Cleaning each part 86
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 - Transporting..... 100
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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	"Wearing the gloves and goggles" on page 79
	"Shaking ink cartridges" on page 80
	"Nozzle check and cleaning" on page 32
Based on your usage condition	"Head cleaning" on page 86
	"Replacing ink cartridge" on page 83
	"Emptying waste ink tank" on page 84
	"Replacing absorption material for the flushing box" on page 97
Weekly	"Cleaning of cleaning wiper" on page 88
	"Cleaning of print head circumference" on page 91
	"Cleaning the circumference of the cap" on page 93
Monthly	"Inside cleaning" on page 95
When not used for a week or more	Weekly "Head cleaning" on page 86

Important!

Since a service technician has to handle following cases, please contact your local MUTOH dealer.

- Error requiring restart is happening repeatedly.
- The message to notify the life of print head and various motors is displayed.

 ["Messages and Error Messages" on page 108](#)

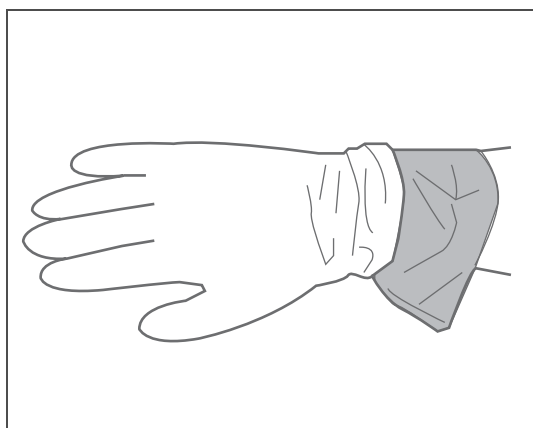
Wearing the gloves and goggles

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.

- "Shaking ink cartridges" on page 80
- "Replacing ink cartridge" on page 83
- "Emptying waste ink tank" on page 84
- "Replacing absorption material for the flushing box" on page 97
- "Cleaning of cleaning wiper" on page 88
- "Cleaning of print head circumference" on page 91
- "Cleaning the circumference of the cap" on page 93

How to wear the supplied gloves



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

CAUTION



- Do not touch UV curable ink with bare hands prior to ink curing.



- 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.

Shaking ink cartridges

Shaking ink cartridges

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

- Before starting and after ending daily printing work
- When any of the messages below appears.

Six color set:

Shake W Cartridge

Shake the White (Wh) ink cartridge.

- Displayed every 12 hours.

Shake KMCY Cartridge

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

- Displayed every 72 hours.

Shake KMCYW Cart.

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

Four color set:

Shake ALL Cart.

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

- Displayed every 72 hours.

Important!

- Shake the ink cartridges periodically. Otherwise, the ink inside the cartridges settles or coagulates and may cause poor print quality or a malfunction.
- You should shake the ink cartridges soon after a message telling you to do so 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, printing will become impossible. In either case, you can restore the printer to normal condition by shaking the ink cartridges.

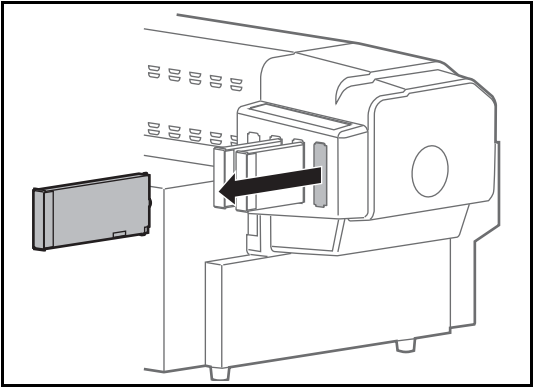
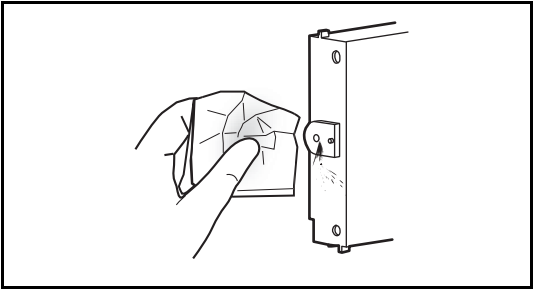
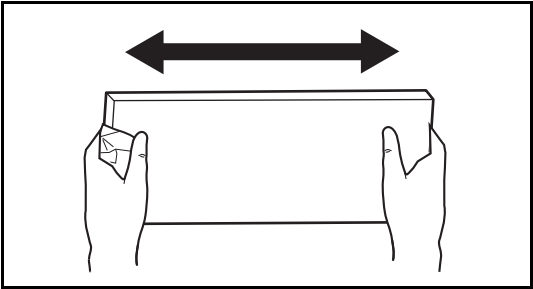
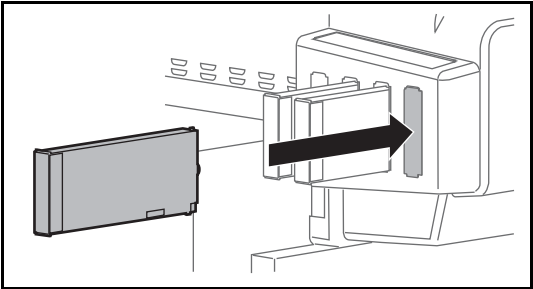
CAUTION



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.

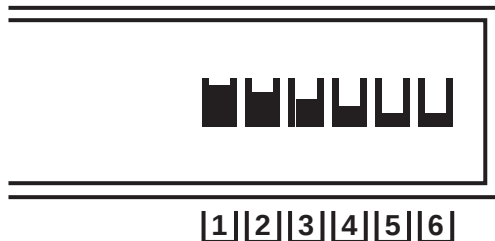
Steps

- [1] 
- Check the power is ON.
 - Wear the supplied gloves and remove ink cartridges from Ink cartridge slots.
- [2] 
- Using the paper towel provided with the printer to wipe off the ink attached to the printer plug of Ink cartridge.
- [3] 
- While holding the printer plug with a paper towel, shake the ink cartridge horizontally 10 times.
- [4] 
- 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 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 18](#)

[2]



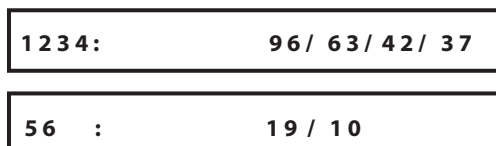
- Press the [-] key several times, to bring up the display on the left.
- Press the [>] key.

[3]



Press the [Enter] key.

[4]



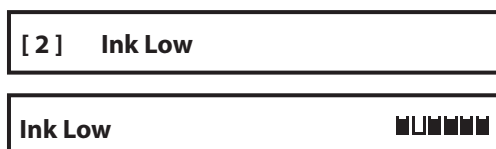
- Displays the remaining ink in Slots 1 to 4, as percentages of the full levels.
- Press the [-] key to flip to the display for Slots 5 and 6.

When it becomes time to replace ink cartridge

When the ink level becomes low, the error LED of the operation panel flashes and a buzzer sounds.

Steps

[1]



Press the [Enter] key.

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

[2] Prepare an ink cartridge to replace.

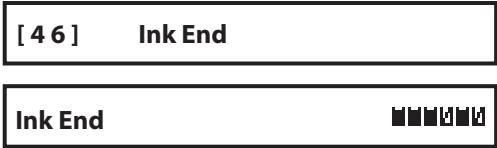
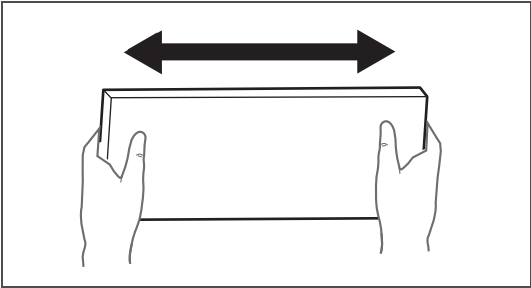
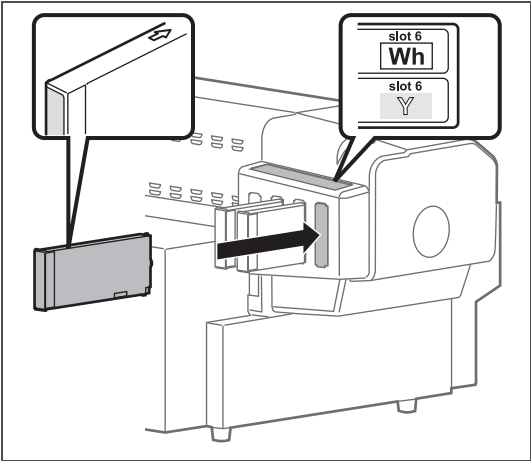


- Sleep mode continues after stopping the buzzer.

Replacing ink cartridge

When ink level becomes low, the error LED of the operation panel flashes and a buzzer sounds. Printing pauses temporarily. It restarts after changed with a new ink cartridge.

Steps

- [1] 
- Press the [Enter] key.
- The buzzer stops.
 - In the picture on the left, the Slot 4 and 6 cartridges need replacing.
- [2] 
- Shake new ink cartridges horizontally 10 times.
-  **Note**
When replacing varnish ink, you do not have to shake it.
- [3] 
- 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 should face up.
 - Insert all the way to the end.

Important!

- Do not replace ink cartridge when the power of this product is OFF. Ink level cannot be detected correctly.
- If ink cartridge is moved from cold to warm place, leave it at least 3 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 ink is used, the error LED in the operation panel of this product becomes ON, and a buzzer sounds. Pour waste ink inside the waste ink tank to PET bottle, and discharge.

Display messages

NearFullWasteInkTank

The waste ink tank is about to become full. Empty the waste ink out of the tank before it becomes full.

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

Full WasteInkTank

The waste ink tank has become full. Immediately empty the waste ink out of the tank.

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

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 out of the tank before moving the printer.

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

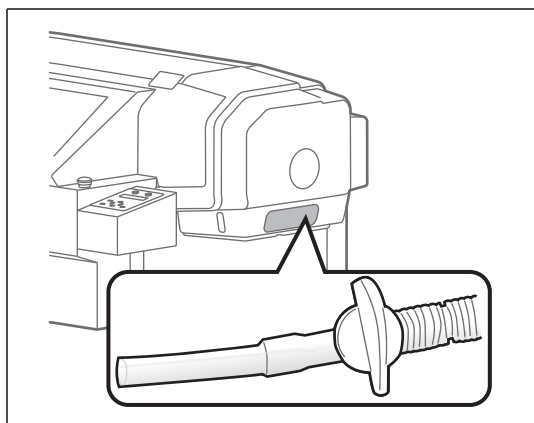
1. Transfer the waste ink

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

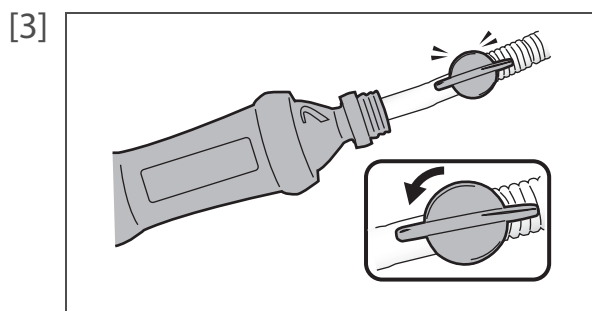
Important!

The capacity of waste ink tank is 1400 ml. Make sure to prepare a container that has enough capacity when discharging waste ink.

[2]



Pull out the tip of the waste ink tube.



- Insert the waste ink tube into a container.
- Turn the tab of the tube clamp and position it as shown in the illustration on the left.
- Pour waste ink into the container.
- When the waste liquid has been moved, return the tube clamp tab to the original position.

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.

2. Resetting waste ink counter

- [1] **Menu 3 :** **Maintenance>**
- Press the [Menu] key.
 - Press the [-] key several times, to bring up the display on the left.
 - Press the [>] key.
- [2] **Mnt. 5 : ResetWasteInk**
- Press the [-] key several times, to bring up the display on the left.
 - Press the [Enter] key.
- [3] **Initial. Parameter?**
- Press the [Enter] key.
- ** Initializing ****
- The waste ink counter is being reset.
- Emptying of the waste ink has finished.

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 37](#) under ["What you can do on the operation panel during printing"](#).

Cleaning each part

To use this product always in its best condition, please clean periodically.

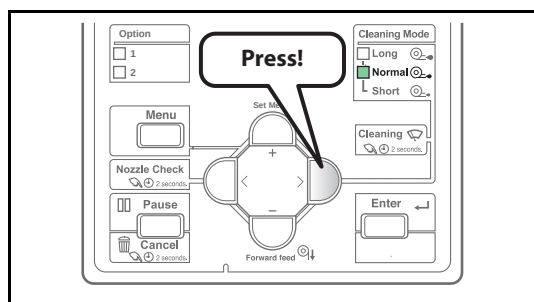
Head cleaning

When nozzle clogging is found in nozzle check, conduct head cleaning. Head cleaning consumes ink. There are several cleaning modes in this product. Please use them accordingly based on your usage condition.

Short cleaning	Consumes less ink than Normal cleaning.
Normal cleaning	Conduct nozzle check before and after printing, and use when nozzle clogging is found.
Long cleaning	Consumes more ink than Normal cleaning. When nozzle clogging still occurs after Normal cleaning, conduct Long cleaning.
Little Charge	Though much better cleaning results can be expected than Long cleaning, it consumes a large amount of 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 70

Steps for head cleaning

[1]

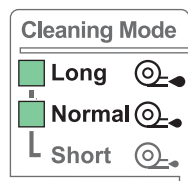


Use the [Cleaning] key to select a cleaning mode.

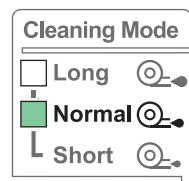
- The "Cleaning Mode" indicators will change each time the key is pressed.

Note

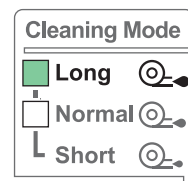
- You can alternatively do this via the printer driver or the VSM's remote panel.
- The "Cleaning Mode" indicators will change as shown below.



Short Cleaning

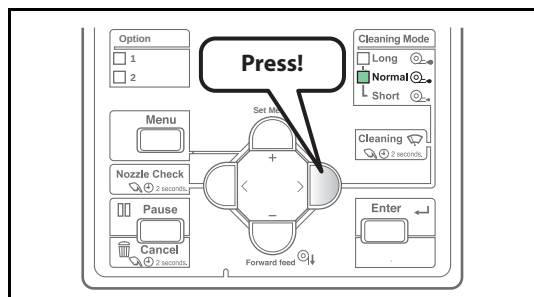


Normal Cleaning



Long Cleaning

[2]



Give the [Cleaning] key a long press, for 2 seconds or more.

- Cleaning will start.

[3] Conduct Nozzle Check.

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

 ["Steps for head cleaning" on page 86](#)



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 ["Cleaning of cleaning wiper" on page 88](#) or ["Cleaning of print head circumference" on page 91](#).
- If the nozzle clog still is not rectified, carry out "LittleCharge" via the Cleaning submenu in the Panel Setting Menus.

Cleaning of cleaning wiper

Cleaning period:

- Weekly
- When print blurring and dot missing remain after head cleaning is done.

Preparation:

- Cleaning stick



During cleaning, please note the followings.

- If it is hard to remove the stain, perform "Short" Head cleaning, and then clean again.
- Use a cleaning stick in dry condition. If moisten with water or solution, it can cause damage to the print head.
- 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.
- Standard cleaning time should be within 5 minutes. If it takes longer, the stick can dry causing damage to the print head.

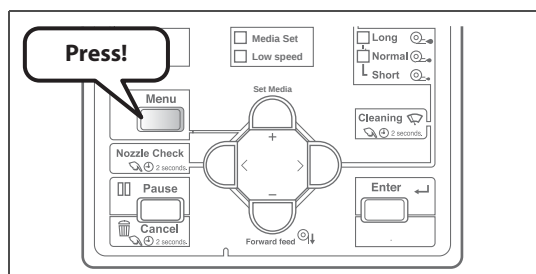
CAUTION



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.

1. Putting the printer into the CR maintenance mode

[1]



Press the [Menu] key.

[2]

Menu 3 : Maintenance>

- Press the [-] key several times, to bring up the display on the left.
- Press the [>] key.

[3]

Mnt. 2 : CR Maintenance

- Press the [-] key several times, to bring up the display on the left.
- Press the [Enter] key.

[4]

CR Mainte. : Start

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.

CR Mainte. : End

2. Cleaning the cleaning wiper

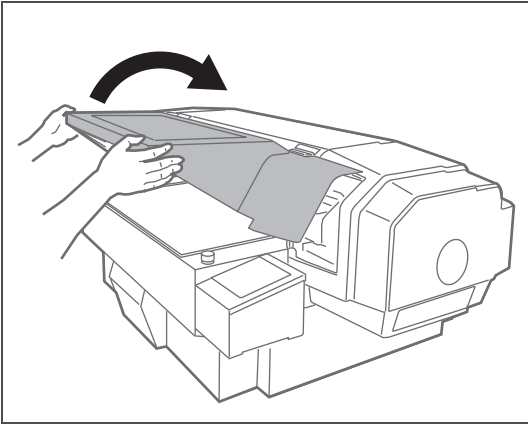
WARNING



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] Open the front cover slowly, holding it by the places shown in the picture and using both hands.
- Open the front cover fully up as far as it will go.



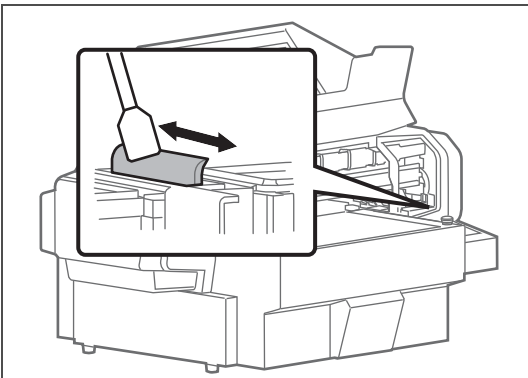
CAUTION



Always open the front cover fully.

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

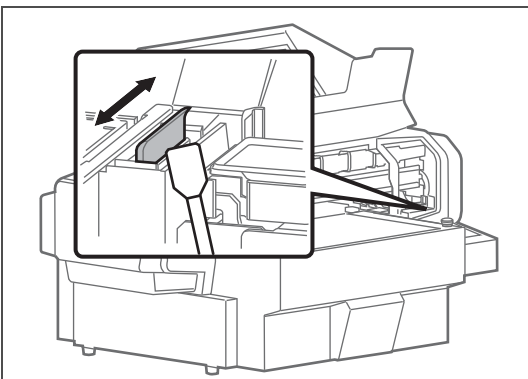
- [2] Wipe the cleaning wiper with a cleaning stick.
- Wipe the left side surface of cleaning wiper going back and forth.



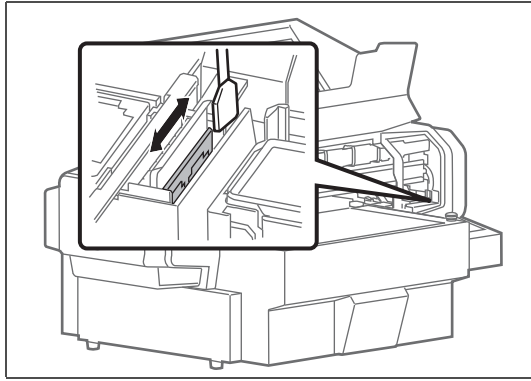
Important!

If it is hard to remove the stain, perform "Short" Head cleaning, and then clean again.

- [3] Wipe the right side surface of cleaning wiper going back and forth.

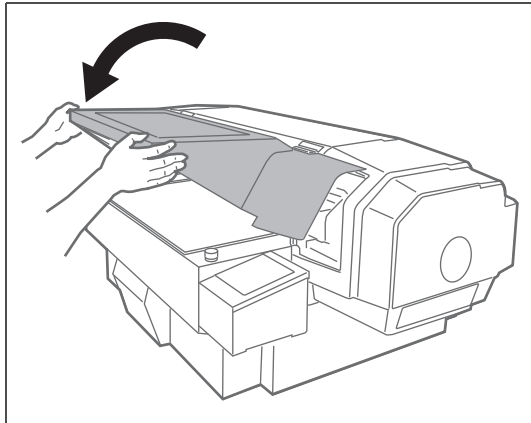


[4]



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

[5]



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.

[6]

CR Mainte. :	End
--------------	-----

Press the [Enter] key.

CR Mainte. :	Start
--------------	-------

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

Cleaning of print head circumference

Cleaning period:

- Weekly
- When print blurring and dot missing remain after head cleaning is done.

Preparation:

Cleaning stick



Important!

During cleaning, please note the followings.

- Use a cleaning stick in dry condition. If moisten with water or solution, it can cause damage to the print head.
- 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.
- Standard cleaning time should be within 5 minutes. If it takes longer, the stick can dry causing damage to the print head.

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



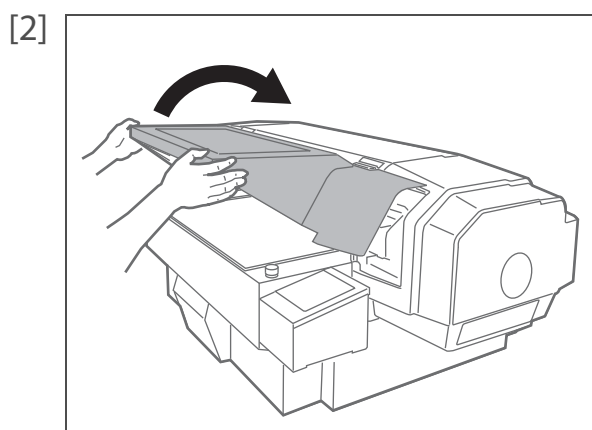
Do not open or close the front cover if you are not in a balanced posture.

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.

Steps

[1] Put the printer into the CR maintenance mode.

 ["Putting the printer into the CR maintenance mode" on page 88](#) under ["Cleaning of cleaning wiper"](#)



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

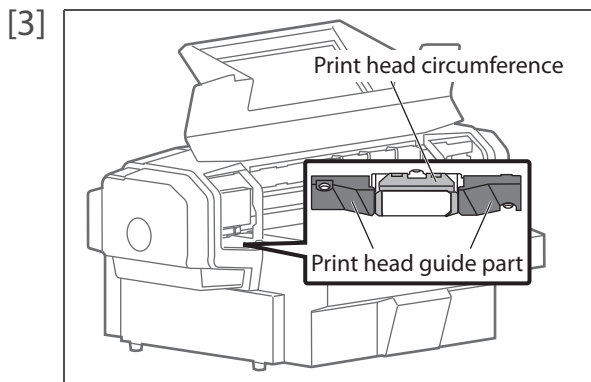
- Open the front cover fully up as far as it will go.

CAUTION



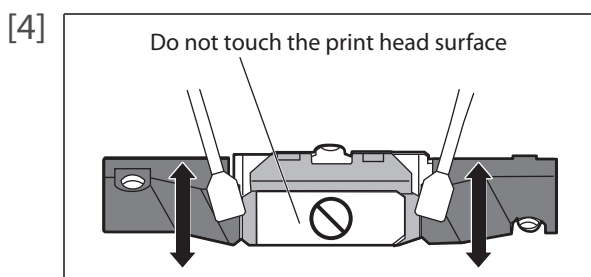
Always open the front cover fully.

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



Look at the bottom side of the carriage and check if dusts and ink lump are adhered.

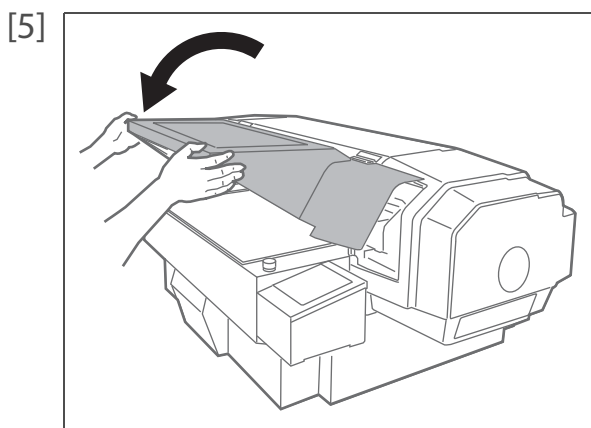
- Print head circumference (silver metal part)
- Print head guide part (black plastic part)



If dusts or ink lump are adhered, clean with a cleaning stick.

Important!

- Do not touch the print head surface with fingers or a cleaning stick. It can cause damage to the print head.

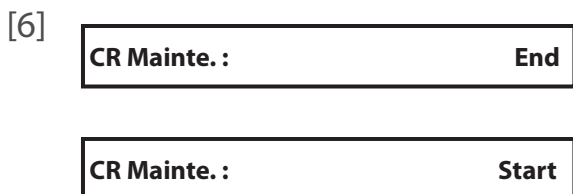


Close the front cover slowly, holding it by the places shown in the picture and using both hands.

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.

Cleaning the circumference of the cap

Cleaning period:

- Weekly
- When print blurring and dot missing remain after head cleaning is done.

Preparation:

Cleaning stick



During cleaning, please note the followings.

- Use a cleaning stick in dry condition. If moisten with water or solution, it can cause damage to the print head.
- 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.
- Standard cleaning time should be within 5 minutes. If it takes longer, the stick can dry causing damage to the print head.

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

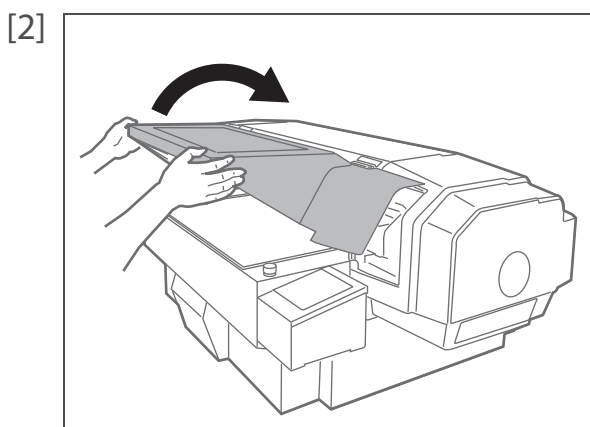


Do not open or close the front cover if you are not in a balanced posture.
If you open or close it in an unbalanced posture, your hands or other body parts could get caught in it, possibly resulting in serious injury.

Steps

- [1] Put the printer into the CR maintenance mode.

["Putting the printer into the CR maintenance mode" on page 88](#) under ["Cleaning of cleaning wiper"](#)



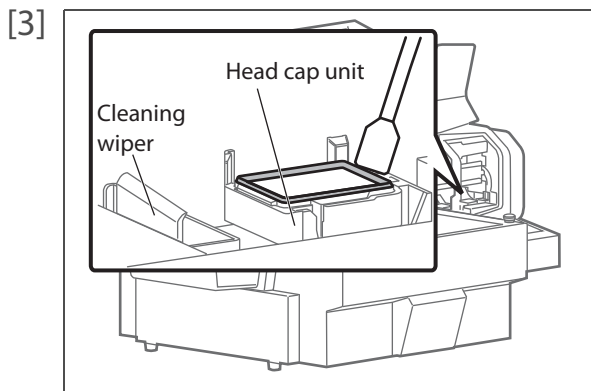
Open the front cover slowly, holding it by the places shown in the picture and using both hands.

- Open the front cover fully up as far as it will go.

CAUTION



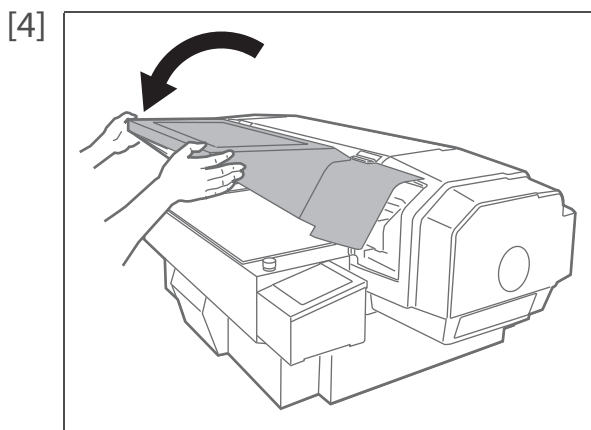
Always open the front cover fully.
If you leave it part-open, it could close suddenly.



If dusts or ink lump are adhered, clean with a cleaning stick.

Important!

- Do not touch Cleaning wiper and Head cap unit. Head cleaning may not be performed correctly because of oil from your hands.
- Do not rub the Flushing box sponge with the cleaning stick. The sponge may fluff up and damage the print head.

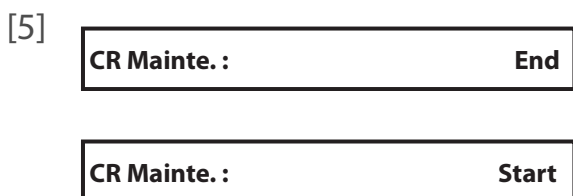


Close the front cover slowly, holding it by the places shown in the picture and using both hands.

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.

Inside cleaning

Cleaning period:

- Monthly

WARNING

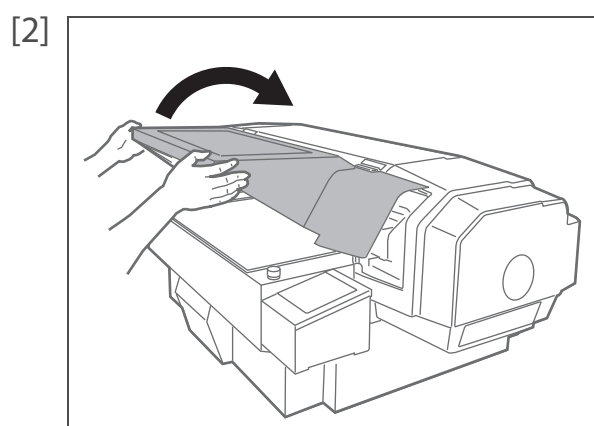


Do not open or close the front cover if you are not in a balanced posture.

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] Check the power is OFF.



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

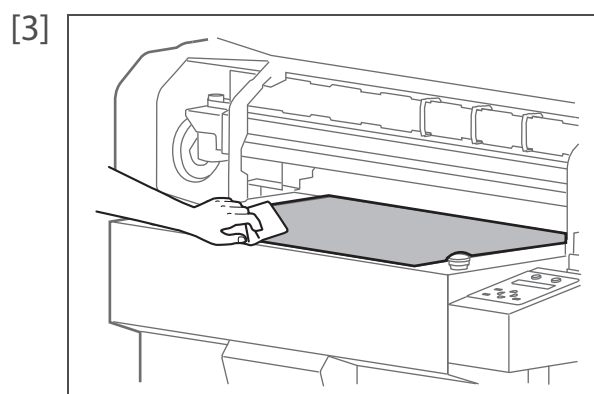
- Open the front cover fully up as far as it will go.

CAUTION



Always open the front cover fully.

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



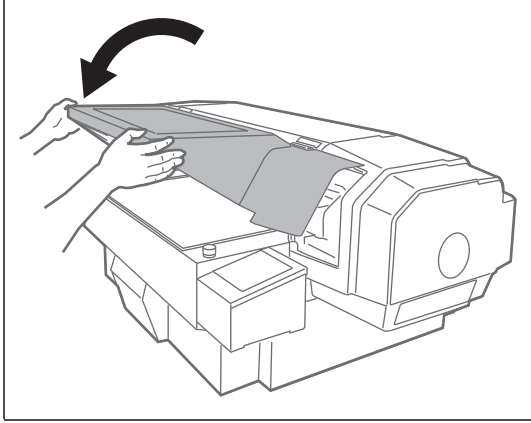
Clean away dirt from the table using a cloth soaked in water and thoroughly wrung out.



Important!

Do not blow off dusts inside the product with a gas duster. It may cause abnormal noise.

[4]



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:

- Approx. every 2 months (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

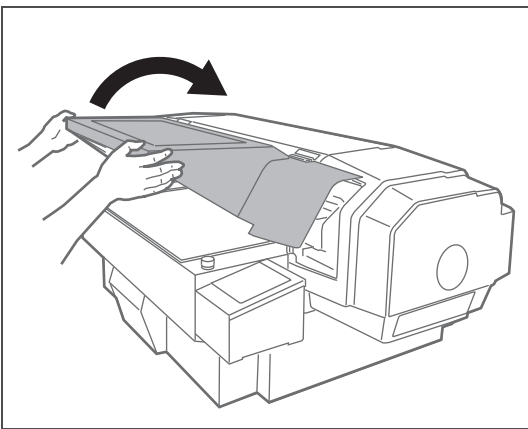


Do not open or close the front cover if you are not in a balanced posture.

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

[1]



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

- Open the front cover fully up as far as it will go.

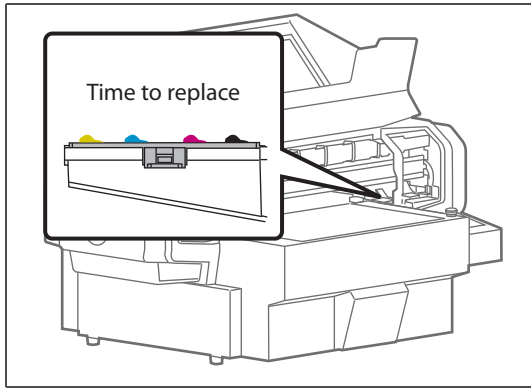
CAUTION



Always open the front cover fully.

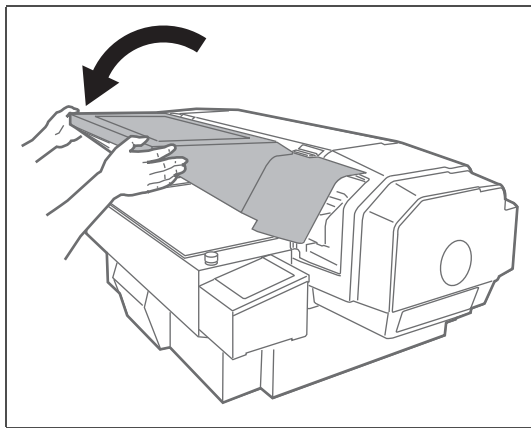
If you leave it part-open, it could close suddenly.

[2]



- Check the absorption material for the flushing box.
- When there are lumps of ink rise from the frame of the flushing box, it is time to replace.

[3]



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

⚠ CAUTION



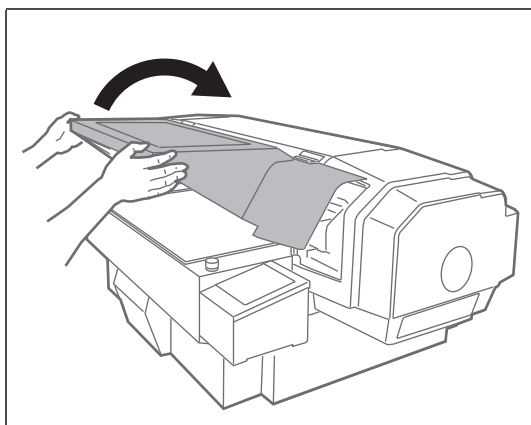
When closing the front cover, always use both hands and hold it by the portions specified. Do not place your fingers on the edges of the printer's opening portion, or on any parts around those edges. Your fingers could get caught and be injured.

2. Replacing steps

[1] Put the printer into the CR maintenance mode.

👉 ["Putting the printer into the CR maintenance mode" on page 88 under "Cleaning of cleaning wiper"](#)

[2]



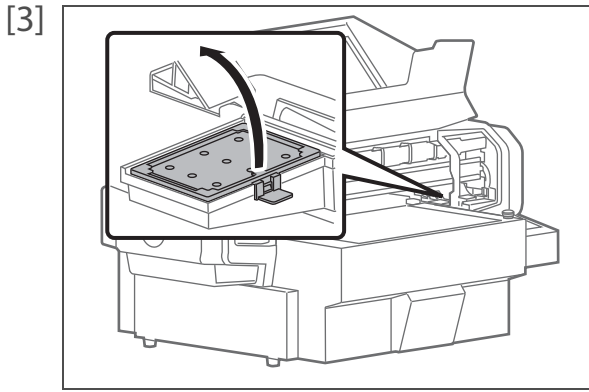
Open the front cover slowly, holding it by the places shown in the picture and using both hands.

- Open the front cover fully up as far as it will go.

⚠ CAUTION



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

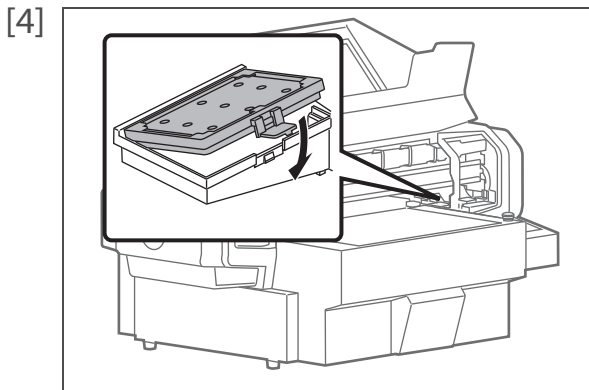


Remove the absorption material for the flushing box.

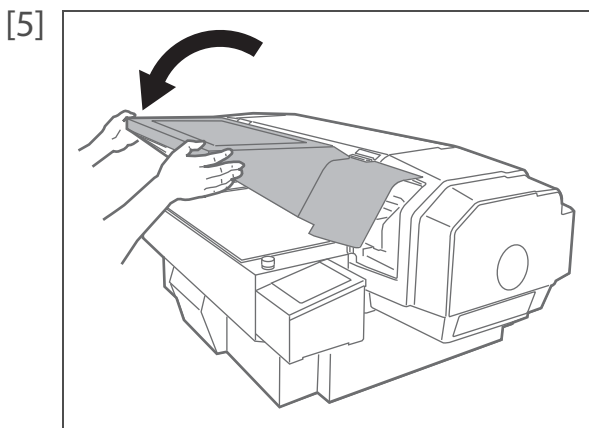
- Pull the tab up of the absorption material for the flushing box, and release the hook.

 Important!

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



Attach new absorption material for the flushing box.



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 discharge the ink in the printer and waste ink and fixate the print head with packaging material. If transported as it is, it can cause ink leakage and damage to the print head.

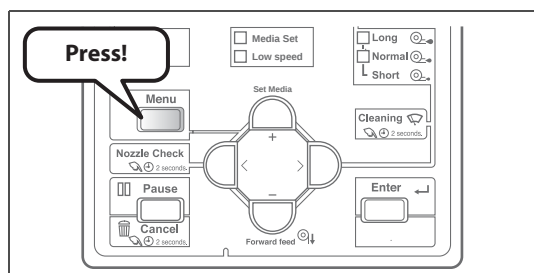
When it is used again, conduct reinstallation work and initial charging.

Important!

- When moving this product, always empty the waste ink tank even if it is for a short distance.
If ink splashes inside the waste ink tank while being moved, it can cause damage.
- Do not tilt, set against something 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 several times, to bring up the display on the left.
- Press the [>] key.

[3]

Mnt.4 : Ink Discharge

- Press the [-] key several times, to bring up the display on the left.
- Press the [Enter] key.

[4]

Ink Discharge : Start

Press the [Enter] key.

[5]

Empty WasteInk ->E

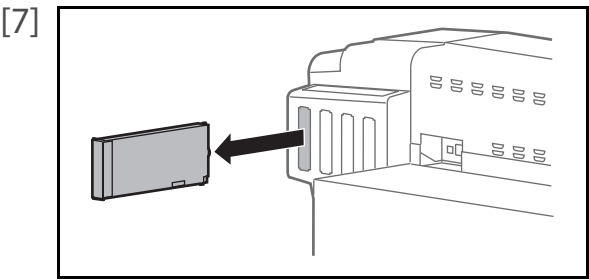
When the message on the left appears, transfer the waste ink into a container.

["Transfer the waste ink" on page 84](#) 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
No Cartridge xxxxxxxx

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

 ["Transfer the waste ink" on page 84 under "Emptying waste ink tank"](#)

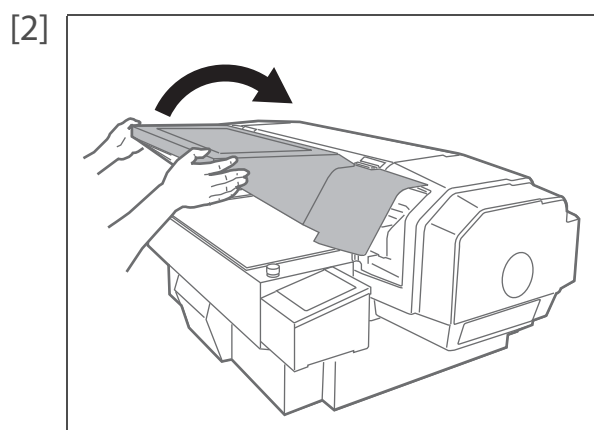
2. Repacking

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 like power cable.



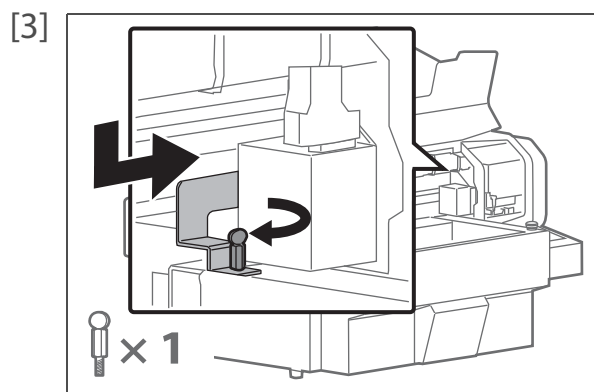
Open the front cover slowly, holding it by the places shown in the picture and using both hands.

- Open the front cover fully up as far as it will go.

CAUTION



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

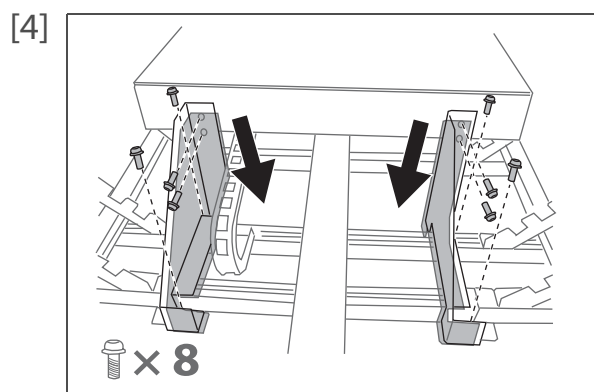


Attach the head fixing plate with screws.

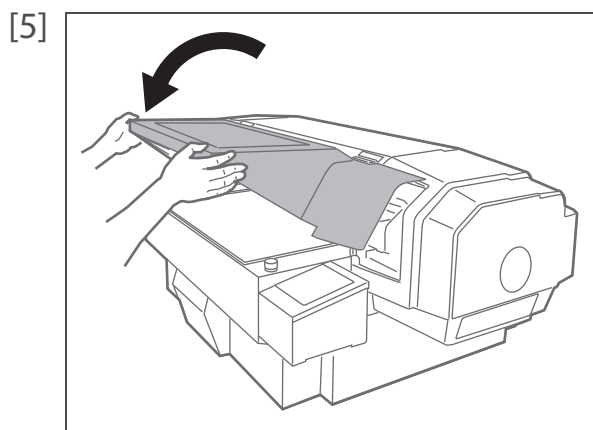
- Slide the head fixing plate leftward to attach it.

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.



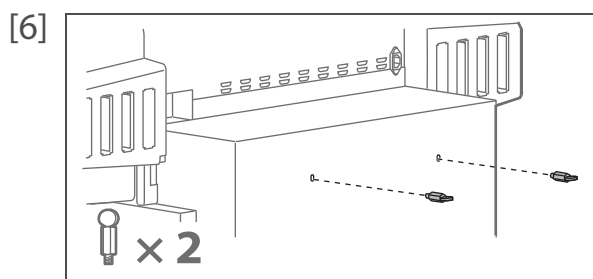
Close the front cover slowly, holding it by the places shown in the picture and using both hands.

CAUTION

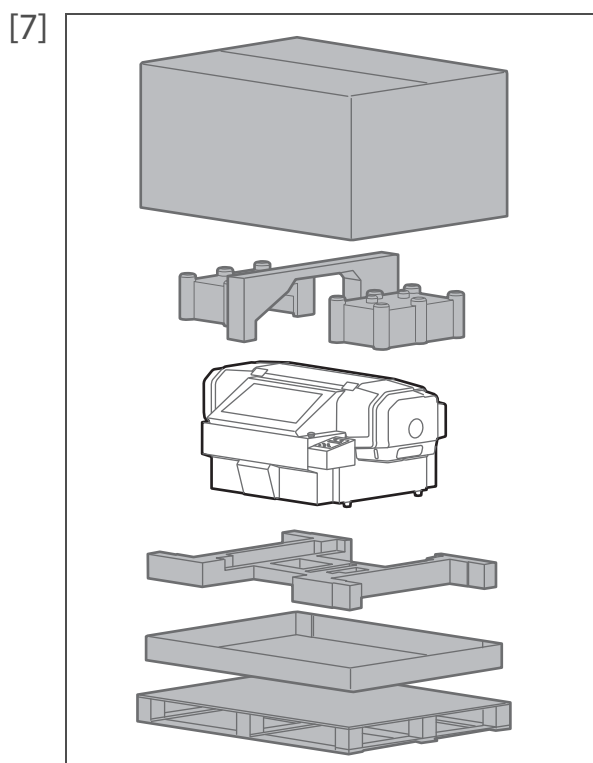


When closing the front cover, always use both hands and hold it by the portions specified.

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.

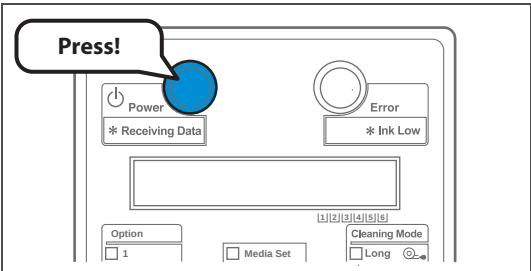


Attach protection materials, and place the product inside the package box.

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 filling after ink discharge.
 -  ["How to carry out initial ink filling after ink discharge" on page 105](#)

How to carry out initial ink filling after ink discharge

- [1] 

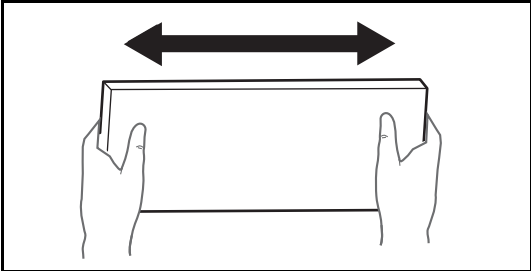
Turn the power button of this product ON.

 - Blue light becomes ON.
 - The product starts initialization operations.
- [2] 

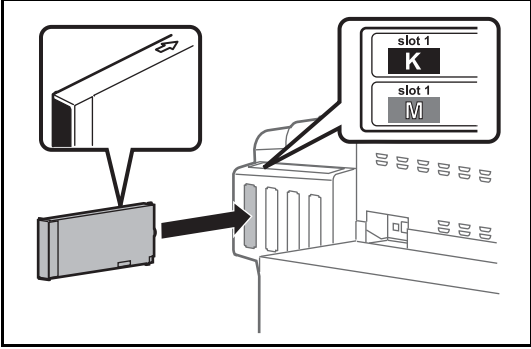
Press the "Enter" key when the message on the left appears.
- [3] 

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

 ["Transfer the waste ink" on page 84](#) under ["Emptying waste ink tank"](#)
- [4] 

 - Press the [Enter] key.
 - The message on the left will appear.
- [5] 

Shake the new ink cartridge horizontally 10 times.

 **Note**
You do not have to shake 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 should face up.
 - Insert all the way to the end.



The message on the left will appear.

 - This product starts ink charging.





When ink charging ends, the message on the left will appear.

Chapter 4 Appendix

- Messages and Error Messages 108
 - Status messages 108
 - Error message display and remedies 109
 - Error requiring restart 111
- Specifications of this product 112
 - Drawing area 112
 - List of specifications..... 113

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.  Startup Guide "Step1 Carrying out activation" P.11
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.  "Setting up media" on page 27
Receiving	Receiving data.
Processing	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.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, give the [Cancel] key a long press, for 2 seconds or more.
Start Ink Charge ->E	Ink filling starts. Please wait a while.
Insert CleaningCart.	Washing Print head. Install the cleaning cartridges.
Busy-Washing **%	• Initial filling, ejecting filler fluid. • Washing the print head by cleaning fluid. Please wait a while.
Remove Cartridges	Washing Print head or discharging ink. Remove the cartridges.
Insert Ink Cartridges	Filling the ink. Insert Ink Cartridges

Display	Description
Ink Refill ** %	Filling 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.  "Emptying waste ink tank" on page 84
Cover Open	The front cover is open.
PG Handle Cover Open	The PG handwheel cover is open.

Error message display and remedies

This section describes error messages and remedies.

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.  "Replacing ink cartridge" on page 83
[*****] NoCartridge	Ink cartridge is not inserted. (Stops operation) Insert Ink cartridge.
[*****] Discharged	Ink is not filled. Perform initial ink filling.  "How to carry out initial ink filling after ink discharge" on page 105
Full WasteInkTank	The waste ink tank has become full. (Operation will stop when this happens.) Immediately transfer the waste ink into a container.  "Emptying waste ink tank" on page 84
NearFullWasteInkTank	The waste ink tank is about to become full. (Operation will continue in this condition.) Transfer the waste ink into a container.  "Emptying waste ink tank" on page 84
[*] 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.
Err!Reboot a printer	Activation has failed. Restart the printer and carry activation out once more.
Life Times [Head]	The operational life of the print head has almost expired. (Continues operation) Contact your local MUTOH dealer.
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	Shake the White (Wh) ink cartridge.
Shake KMCY Cartridge	Shake the Black (K), Magenta (M), Cyan (C), and Yellow (Y) ink cartridges.
Shake KMCYW Cartridge	Shake the Black (K), Magenta (M), Cyan (C), Yellow (Y), and White (Wh) ink cartridges.
Shake ALL Cartridge	Shake all ink cartridges. Shake the Black (K), Magenta (M), Cyan (C), and Yellow (Y) ink cartridges.
[*] Change Plug	Connector rubber for High-capacity pack adapter is at the end of its life. Replace Connector rubber of High-capacity pack adapter.  Operation manual for High-Capacity Ink Pack Adapter



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 lamps on the operation panel blink, and the buzzer rings 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 continues to be 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 a 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.  "Emergency stop button" on page 44

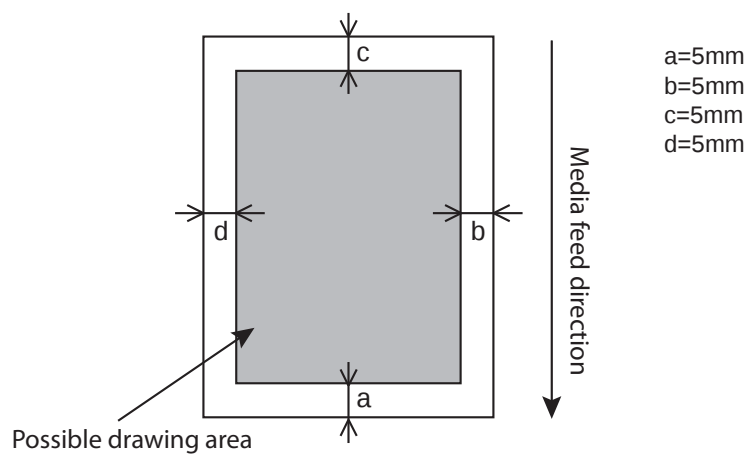


Note

- "****" in the error message is the code no. that indicates what type of error occurred.

Specifications of this product

Drawing 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 fix		Standardly equipped with vacuum-fixing table unit
Ink curing device		UV ray irradiation device
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 1400 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.
	Ranges to ensure printing precision	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	If not charged with ink when stored: up to 6 months Temperature -20 to +60 °C, humidity 20 to 80%. If charged with ink when stored: up to 1 week Temperature 5to +30 °C, humidity 20 to 80%.
Power supply specifications	Voltage	AC 100 V to 240 V ±10%
	Frequency	50/ 60Hz ±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	1188 mm
	Depth	838.5 mm
Weight	Main body	70 kg

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