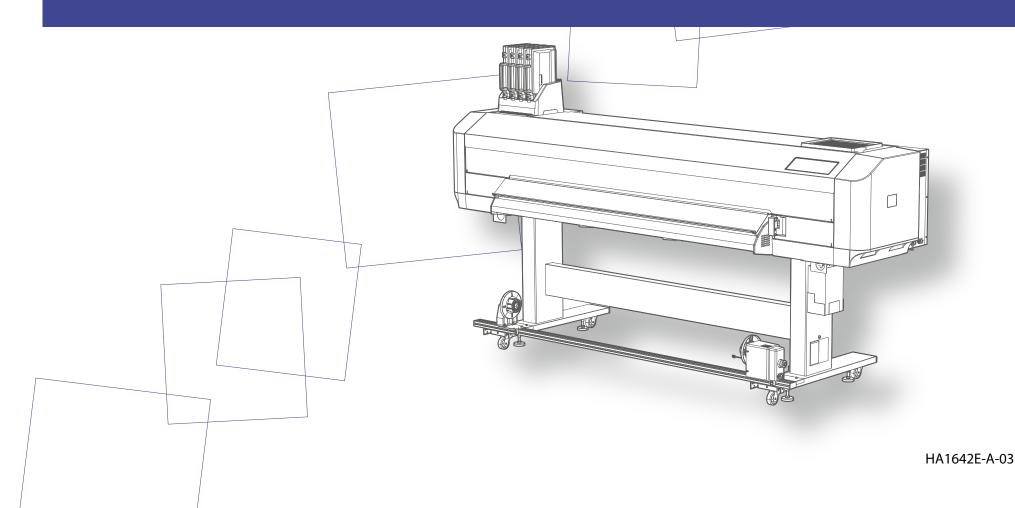
MUTOH

HA-1642

Operation Manual

Operations and Maintenance Methods



Important

Notice

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.

CAUTION

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

.....

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VerteLith™ is trademark of MUTOH INDUSTRIES LTD.

Company names and product names that appear in this Guide are registered trademarks or trademarks of the respective companies.

- Unauthorized copying or duplication of the whole or part of the contents of this Guide is prohibited.
- Every care has been taken in writing the contents of this Guide, but please contact MUTOH or the dealer you purchased the product from if you find any unclear, erroneous or otherwise unsatisfactory content in the Guide.
- 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 Guide.

.....



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Safety Precautions

Symbols

In this document, the following symbols are used for the instructions that must be followed to avoid risk of harm to human health or damage to the property.

Please understand the meaning of each mark and use this product safely and correctly.

■ Warnings and cautions

Marning	Failure to follow the instructions could result in serious injury or death.
? Caution	Failure to follow the instructions could result in minor injury or damage to the product.

■ Actions that must be avoided or instructions that must be followed.

\bigcirc	Indicates an action that must be avoided. A symbol in the sign indicates the prohibited action.
0	Indicates an important instruction that must be followed. A symbol in the sign indicates the instruction must be followed.

■ Other symbols

	Provides information that require special attention or should be followed.
Note	Provides supplemental or reference information.
Œ	Indicates the link to the reference section.

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In the event of abnormal conditions





- In the event of abnormal conditions such as smoke or unusual odor, turn off the main power immediately and unplug the power cord.
 - Continuing to use the machine under these conditions may result in failure, electric shock, or fire. Once you have confirmed that smoke is no longer being emitted, contact your local dealer or our service office. Never attempt to repair the machine yourself, which is hazardous.
- If a foreign object, water, or other liquid gets inside the product, immediately turn off the power button and unplug the power plug from the outlet.
- Continuing to use the machine under these conditions may result in failure, electric shock, or fire. Once you have confirmed is no anomalies, contact your local dealer or our service office. Never attempt to repair the machine yourself, which is hazardous.
- If ink, maintenance cleaner, or waste fluid, gets on skin, wipe it off immediately with a cloth. Then wash with soap and plenty of water. If skin irritation or inflammation occurs, seek medical advice.
- If ink, maintenance cleaner, or waste fluid gets into your eyes, immediately flush them with copious amounts of running water for 15 minutes. If irritation or pain is felt in the eyes, seek medical attention immediately. If left untreated, it may cause redness and mild irritation of the eyes.
- If ink, maintenance cleaner, or waste fluid is swallowed, do not force vomiting, gargle immediately and seek medical attention immediately. Attempting to force vomiting may cause vomit to enter the trachea.

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Usage Precautions

Handling





- Do not touch the product when lightning starts.
- This could may result in electric shock.
- Do not insert or drop metal or flammable objects into the printer through openings such as vent.

This could result in fire or electric shock.

• Do not block the vent on the product with cloth or other materials.

If covered, the inside the product gets hot, resulting in fire.

· Do not touch the moving parts.

This may cause injury or damage to the product.

• Do not sit on or place heavy objects on the product.

Failure to do so may result in injury from a fall.

• Do not touch the media guide while printing or the heater is in operation.

There is a risk of burns.



• Never modify the product or open any covers secured with screws.

This could result in an electrical shock or damage to the printer. Also, modifying or disassembling the product will void the warranty.



- When handling the printer, please note the following:
 - 1. Do not stare at the ultraviolet light at close range for long periods of time. This may cause eye damage.
 - 2. Do not expose your skin to ultraviolet light at close range for long periods of time. This may cause skin inflammation.
- Small amount of UV light (bluish white light) is leaked from the UV-LED unit, but it is minimized to safe level.





• Do not tilt or give any impact to the product.

Doing so may cause the ink inside the printer to leak. Otherwise proper operation cannot be guaranteed.



- When handling the front cover or the maintenance cover, always use the following safety precautions:
 - 1. Avoid strong airflow from a fan or an air conditioner to install this printer. If not, it may accidentally close the cover.
 - 2. When opening the cover, make sure the cover does not hit anyone or anything.

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Power cords





• Do not damage or modify the power cord or power plug. Also, do not place heavy objects on it, heat it, orforcibly bend or pull it.

The power cord may be damaged, resulting in fire or electric shock.

• Do not use the power cord if it is damaged or broken or if the core wire is exposed.

This could result in fire or electric shock.

• Do not plug the ground terminal into a power outlet.

This could result in fire or electric shock.

• Do not allow metal or other objects to touch the blade of the power plug.

This could result in fire or electric shock.

• Do not use extension cords or power strips.

This could result in fire or electric shock.

- Do not connect an earth wire to the following places:
 - 1. Gas pipe: It has potential risks of fire and explosion.
 - 2. Earth wire of telephone cables or lighting rods: Large current may flow when the lightning strikes.
 - 3. Water pipe or faucet: It may not work properly if a plastic pipe is connected to the pipe.



• Do not handle the power plug with wet hands.

This could may result in electric shock.

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- Use the Printer with a power supply that meets specifications.
- Be sure to use the designated power cords.

Failure to do so could result in an electrical shock or fire. For the designated power cord, please contact your local MUTOH dealer.

- 1. The power cord should have the protective ground terminal and make sure to plug in securely.
- 2. Use the power cords which meet the safety standard, voltage and plug shape of the country to use this product.
- Plug the power cord into a power outlet close to the machine.
- Insert the power plug blade securely.

Incomplete insertion may cause fire or electric shock.

- When unplugging the power cord, be sure to hold the plug and pull it out.

 Pulling on the power cord may damage the cord, resulting in fire or electric shock.
- Clean the power plug regularly with a dry cloth.

 Moisture or adhering to accumulated dust may cause a short circuit. This could result in fire or electric shock
- Unplug the power plug from the outlet when not using the product for an extended period of time. Dust buildup on the power plug may cause fire or electric shock.
- Use the cord clamp to secure the power cord. Startup Guide "Connecting the cables"



• Plug the power cords into the wall outlet that has the earth connection and make sure to connect the earth.

If the earth is not connected, an electrical shock or fire may occur.

- Make sure to connect an earth wire to the earth connection that meets the following requirements:
 - 1. Earth terminal of power socket.
 - 2. An earth wire with a copper plate which is buried at 650 mm or more in the ground.



Caution



 When connecting the power cord, check the input voltage of the power outlet and the capacity of the breaker. Also, connect each cable to a separate power source with an independent breaker.

Connecting to power outlets linked with the same breaker will cause the breaker to trip.

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About Maintenance



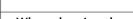
Caution

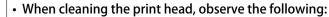


• Make sure to wear protective equipment (gloves, goggles or eye protection, protective clothing, mask) when performing a maintenance.









- 1. Always follow the steps to perform maintenance.
- 2. Use the designated maintenance cleaner. Use of non-designated one may cause print head failure.
- 3. Use a new cleaning stick. Reusing used cleaning sticks may cause print head failure.
- 4. Do not touch the tip of a cleaning stick with bare hands. Sebum can cause print head failure.
- Check that the media guide is cool enough to perform maintenance.

The media guide becomes hot during operation and you could get burns.



- Never touch the print head nozzles when cleaning the parts around the print head. This could damage the print head.
- Do not touch the cleaning wiper and the print head capping station with bare hands when cleaning the wiper.

If finger oil gets on this, head cleaning cannot be performed properly.

• Do not use volatile chemicals such as thinner, benzine or alcohol for cleaning.

This may cause damage to the paint or plastic cover.

- Do not attempt the following actions during ink charging:
 - 1. Turn off the printer.
 - 2. Unplug the power cord of the printer.
 - 3. Open the front cover or maintenance cover.
 - 4. Raise the pressure rollers.
 - 5. Move the printer.

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Location of the Printer





- Install in a well-ventilated area and ensure that the work area is well ventilated.
- Odor of ink could have adversely impact on health. If you experience headache, fatigue or dizziness, stop your work and immediately get to fresh air. If nausea persists, seek medical advice.
- Before taking out the printer from the packaging box, remove the plastic sheet wrapped around the printer first.

Failure to do so may cause slip and damage to the product.



Caution



- Choose the location which satisfies the requirements below:
 - 1. The floor must be level.
- 2. Avoid vibration from the neighboring devices.
- 3. Low humidity and free from dust.
- 4. Less chance of temperature and humidity changes.
- 5. Avoid direct sunlight.
- 6. Avoid water.
- 7. Avoid direct air onto the printer.
- 8. Low levels of electromagnetic waves.



- This equipment is not suitable for use in locations where children are likely to be present.
- Do not install the product in direct sunlight or remove the cover.

Next to the UV-LED lamp in the printer, there may be other sources of UV light present in the working environment: sunlight or any form of artificial light. It could cause unintended curing, resulting in printer damage (nozzle clogs, malfunction of the maintenance station, etc.).

When moving the printer



Caution



- Before moving this printer, always empty the waste ink tank even moving short distance. Failure to do so may result in damage to the product.
- Minimum three people are required for moving this product. When moving, keep the product level. Otherwise proper operation cannot be guaranteed after moving.
- Wearing safety shoes is recommended for moving this product.

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Ink and waste fluid





• The safety concerns involved with using and handling of ink and waste fluid are detailed in the Safety Data Sheet (SDS).

Please read the SDS carefully before handling these liquids.

Please download the latest SDS from our website (https://www.mutoh.co.jp/en/).



• Always wear protective equipment (gloves, goggles or safety glasses, protective clothing, mask) when handling ink or performing any work that ink may come in contact with your skin (e.g. cleaning print heads, caps, wipers, etc.).



• Two types of gloves are supplied with the printer. To avoid ink penetration, please wear the rubber gloves over the polyethylene gloves (pink). If these gloves are not available, butyl rubber gloves are recommended.



• If glove becomes contaminated with ink, replace with new ones.



• Do not touch uncured ink with bare hands.

Ink curing time varies depending on the surface characteristics of media. Always wear gloves when checking if the ink has cured.



• Store ink in a cool, dark place and keep away from fire and heat.

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• Do not disassemble or give strong impact to the ink bag, or swing it around violently. Doing so may cause ink leakage.



• Use MUTOH genuine ink.

This printer is designed to deliver best performance by using MUTOH genuine ink. The use of non-genuine ink may affect the printer as well as print quality. This is not covered by the warranty.

- Use inks within its shelf life.
- 1. Use of expired ink may cause ink ejection failure or damage to the printer.
- 2. When expired, replace with a new one even if ink remains in the ink bag.
- 3. Dispose of expired ink as industrial waste. Put the emptied ink bag in a plastic bag and dispose of it according to the local regulations.
- Ink bags and waste fluid should be stored in the following places:
 - 1. A place out of reach of children.
- 2. A cool, dark place that keeps away from fire, high temperature or direct sunlight.
- When disposing of ink, waste fluid collected from the printer, or containers and paper towels with ink adhered, be sure to follow the instructions of industrial waste disposal contractors, related laws, and local regulations to dispose of them.
- Waste fluid collected from this printer is harmful. Do not allow it to reach sewage or natural water systems.
- Use a HDPE container with light blocking properties to store waste fluid.
- When storing waste fluid for a long time, slightly loosen the cap on the container to allow air. Do not tightly close it.
- Do not mix waste fluid with any other chemical substances, not even in small amounts. When mixed with other chemicals (e.g. oxidants), heating may occur.

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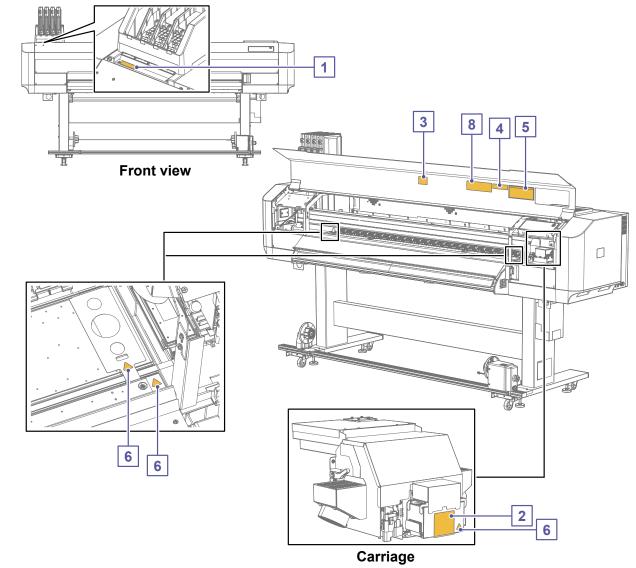
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Warning labels

Warning labels are affixed to the hazardous area of the printer. Read and follow the instructions on the labels. In case the warning labels came off or get dirty, please contact your local MUTOH dealer for replacement.



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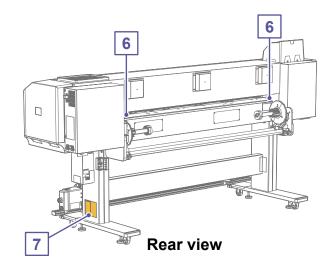
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M Note

The following marks correspond to Chinese safety standards.



汉文	仅适用于海拔2000m以下地区安全使用。
藏文	《2000m म्ये वन्त्रानमार ऋजिरहायों वनर शूनमार म्यूनी हुन महन्तेवर तक्त्रोति हुन में वन्तराक्तों न
蒙古文	"मुःश्रुष्ट्रप्ट्रयःजयःश्रृष्ट् र्श्वेर्2000ययः मुःयः विवाष्ट्रयः वेदः मुदःमुदः मुदःमुदः मुदः मुदः मुदः मुदः
壮文	Dan hab yungh youq gij digih haijbaz 2000m doxroengz
	haenx ancienz sawjyungh.
维文	دېڭىز يۈزىدىن 2000 مېتر تۆۋەن رايونلاردىلا بىخەتەر ئىشلەتكىلى بولىدۇ



汉文	"仅适用于非热带气候条件下安全使用。"
藏文	«अन्नेम्मूच क्रिशंन ६ क्रिंग्ड म्मूचर मॉर्साम्बर वर्ष क्रिंडिनर व्यव्यत् भारवरेंद्वर तस्त्रेमव वर्ड में व्यतस्तर्य .) ••
蒙古 文	"कं चतः मातुषः ग्रीः मादा मादीमा श्रीदः चादी मात्रायां दरः नेदः श्रोदः चेदः श्रीदः ग्रीदः ग्रीदः ग्रीयः मादीमा
壮文	Dan hab yungh youq gij dienheiq diuzgen mbouj dwg diegndat
	haenx ancienz sawjyungh.
维文	غەيرى ئىسسىق بەلباغ ھاۋا كىلىماتى شارائىتىدىلا بىخەتەر ئىشلەتكىلى بولىدۇ

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Label type Name / Meaning







Protective equipment wear label

• Wear protective equipment when handling ink.

2



UV warning label

• UV light hazard: Avoid direct skin or eye exposure to light.

3



Steel belt caution

• Do not touch this part. There is a risk of injury.



Cutter caution

• Do not place fingers near the cutter. There is a risk of injury from the cutter blade.

5



Front cover caution

Follow the instructions on the label.



Hot surface hazard label

• Risk of burns. Do not touch this surface for at least 10 minutes after printing.

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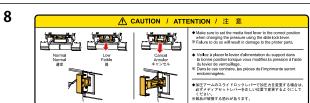
Label type Name / Meaning

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Waste fluid caution label

• Waste ink is harmful to human body. Wear a protective mask, protective glasses, protective gloves, and protective clothing while handling.



Slide lock lever caution label

• When changing pressure that comes onto media using the slide lock lever, incorrect procedure may cause damage to the printer parts. Follow the operation procedure to change the pressure.

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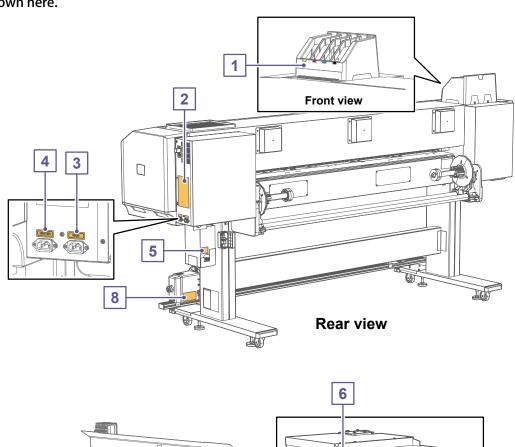
Maintenance

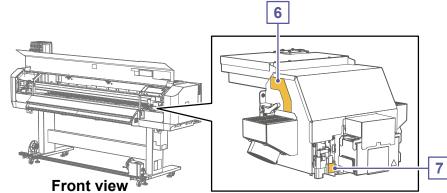
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Instruction Labels

Instruction labels are affixed where special attention for operating this product is required. The contents of each label are shown here.





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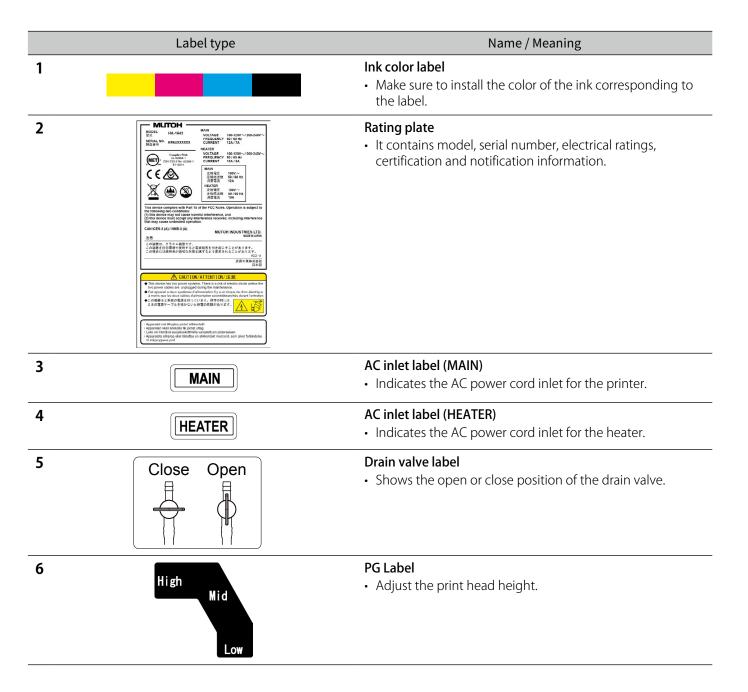
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Label type Name / Meaning

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ORIGIN Label

• Indicates the origin position.

IJ-TUP30-01 MODEL SERIAL No. KT6U**** VOLTAGE 100 - 240V∼ FREQUENCY 50 / 60 Hz CURRENT 0.26 A - 0.13 A



This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any inherference received,
including interference that may cause undesired operation.
CAN ICES-3(A) / NMB-3(A)

MUTOH INDISTRIES 1TO MUTOH INDUSTRIES LTD. MADE IN JAPAN この装置は、クラスA機器です。この装置を住宅環境で使用すると 電波妨害を引き起こすことがあります。この場合には使用者が適切 な対策を講ずるよう要求されることがあります。 VCCI-A

武藤工業株式会社 日本製

Apparatet må tilkoples jordet stikkontakt
Apparaten skall anslutas till jordat uttag
Latte on litettävä suojakoskettimilla varustettuun pistorasiaan
Apparatets stikprop skall tilsluttes en stikkontakt med jord, som
giver forbindelse til stikproppens jord

Rating plate for take-up unit

• It contains model, serial number, electrical ratings, certification and notification information.

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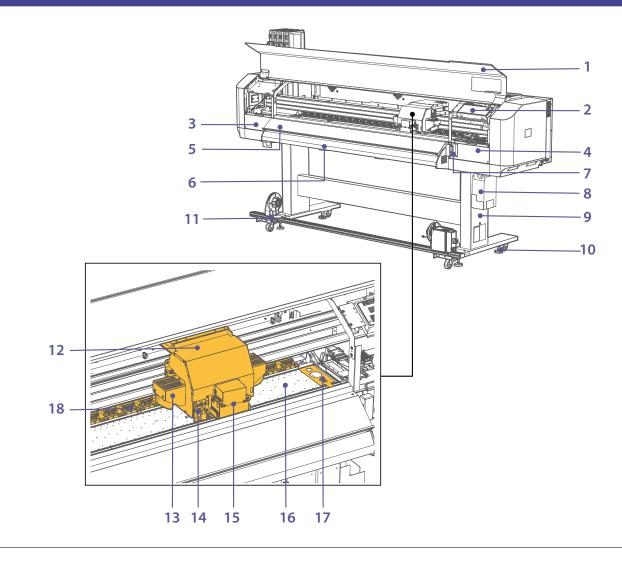
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1	Front cover	Opens and closes when loading media or removing jammed paper. Normally, it should be closed.
2	Printer Control Panel	© "Printer Control Panel" P.29
3	Maintenance Cover L	Opens and closes when cleaning or replacing consumables. Normally, it should be closed.
4	Maintenance Cover R	Opens and closes when cleaning or replacing consumables. Normally, it should be closed.
5	UV-LED light protective cover	This cover protects eyes from UV light.
6	Media guide	A roll media passes over the media guide. A heater is built in to dry the ink.
7	Media feed lever	Lever to hold down or release the media. Push the lever to hold down the media. The holddown pressure can be changed between "Normal" and "High" using this lever.
8	Waste ink tank	Collects waste fluids from the printer. Empty the tank before it becomes full.
9	Stand	This supports the main body of the printer.
10	Adjuster	This is used to adjust the height of the printer or prevent shaking.
11	Take-up unit	Rewinds printed media.
12	Carriage	The print head is built in. It moves left and right during printing.
13	Dryer unit	Used to cure ink.
14	Cutter	Automatically cut media.
15	UV-LED unit	This unit irradiates UV light (ultraviolet light) to cure the ink.
16	Platen	Media are printed on this position. The vacuum fan that holds down media and the heater that reduces ink bleeding are built in.
17	Edge holder	Place it on both ends of the media to prevent the media from lifting.
18	Pressure rollers	Holds the entire media from above during printing. The slide lock lever on each pressure rollers can be used to reduce or cancel the holddown pressure.

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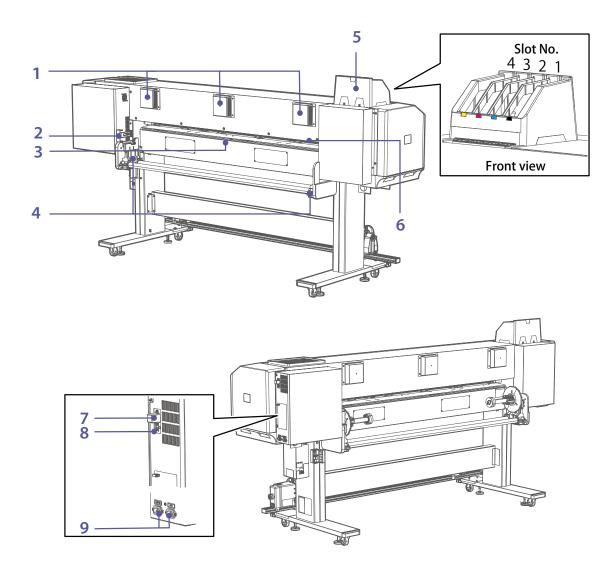
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1	Exhaust Fan	Exhausts the air inside the printer.
2	Media feed lever	Lever to hold down or release the media. It is linked to the media feed lever on the front side.
3	Media guide	Media Pathways. A built-in heater preheats the media before printing to control media temperature changes.
4	Roll media holder	Load the paper roll. Attach the flange to the roll paper and set it in the roll media holder.
5	Ink slots	Set the ink pack case.
6	Media feed slot	When loading media, insert the media here and pass the media through the front.
7	Take-up unit connector	This connector is used to connect the take-up unit to the printer.
8	Network interface cable connector	Connect the Ethernet cable and use it to connect the printer to the computer.
9	AC inlet	Connect the power cord. To prevent the power cord from disconnecting, secure it to the cable clamp.

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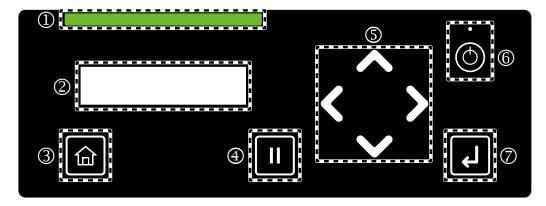
Printer Control Panel

How to use the printer control panel

The printer has a touch-screen panel. The active keys are lit up on the panel for guidance.

- Tap: Lightly touch the key and immediately release your finger.
- Long touch: Press and hold the key.

About the parts of the printer control panel



Status light

Indicates the printer status by LED light.

- Working normally: Solid green
- Error state: Solid red

Display

Displays printer status, setup menus, errors, etc.

8



[Home] key:

• Tap to access to or exit the "Setup" menus.

4



[Cancel] key:

- Tap to pause printing. Tapping the key again will resume printing.
- Tapping the key while no printing is performed will cut a sheet off the roll media.

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Arrow keys:

In the "Setup" menu, use these keys to select a menu item or enter a value.

- Key: Scroll up the menu list.
- Key: Return to the previous menu without saving the change.
- Key: Go to the next level menu.
- Key: Scroll down the menu list.

In ready-to-print state, use these keys to feed media or perform nozzle check print or cleaning.

- Key: Feed the media backward. Long-touch to feed it with high speed.
- Key: Print a nozzle check F pattern.

 "Performing Nozzle Check" P.61
- Every: Perform a cleaning cycle. The "Performing Head cleaning" P.63
- Key: Feed the media forward. Long-touch to feed it with high speed.





Power button:

• Press and hold the button for more than 2 seconds to turn on the power. The small LED above the button will turn on white.

Turn off the printer" P.44

 Press and hold the button for more than 2 seconds while the power is on to turn the power off. The LED above the button will turn off.

Turn off the printer" P.44



() Mark means standby. The printer consumes a small amount of power when the power cord is connected, even when the white LED above the button is off. In this manual, this state is referred to as the power being off.





[Enter] key:

Tap to confirm the menu or the value selected.

• Tapping during warm-up will start printing before warm-up is complete.

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📢 Important !

Make sure your computer meets the following requirements:

- OS: Windows 11, Windows 10
- CPU: Intel (R) Core (TM) i5 or more
- Memory: 8 GB or more
- Network: Use a network port that supports Gigabit Ethernet, and an Ethernet cable that supports Category 6 Gigabit Ethernet or later.

◯ Note

- The OS support period of MUTOH software follows the Microsoft support lifecycle policies.
- When using RIP software, please also check the system requirements of your RIP software.
- If you are using the LAN connection, make sure that your printer and computer are on the same subnet.

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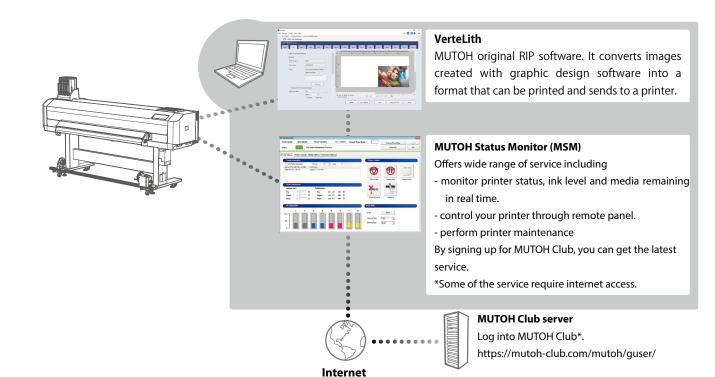
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* MUTOH Club

By signing up for MUTOH Club, it offers free useful contents including

- download the latest version of application, operation manual
- download media profile
- check printer information (printer information uploaded through MSM can be viewed)

<About Printing Support Software>

To get the best out of this product, use the MUTOH Status Monitor (MSM).

You can download the latest version of MSM from the MUTOH Club Server.

To use MPS, specify the output port of RIP software to MPS.

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Launching MSM



Windows 11 / Windows 10 1. Double-click the MSM icon on the desktop.

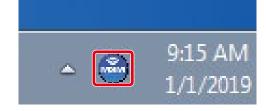
Launching/Opening/Exiting MSM



How to start from the Windows Start Menu Windows 11 / Windows 10

• From the [Start] menu, click [All Programs] (or [All Apps]) - [MUTOH] - [MUTOH Status Monitor].

Displaying MSM



1. Double-click the MSM icon in the task tray.

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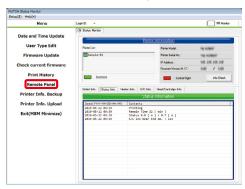
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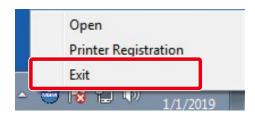
Displaying remote panel

The remote panel allows you to view the printer status or remotely operate your printer.



- 1. Click on the Remote panel.
- The remote panel opens.

Exiting MSM



Windows 11 / Windows 10

1. Right-click the MSM icon in the task tray and click [Exit].



While using your printer, do not exit MSM. To close the MSM window, click [Settings] - [Close] on the menu bar.

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Installing VerteLith

Follow the instructions on Install Guide supplied with the VerteLith package to complete user registration and installation.

Once installed, follow the VerteLith user manual to complete initial setup and printer registration.

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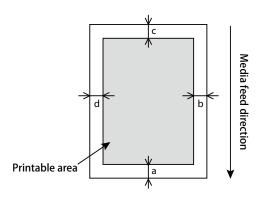
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The printer always starts printing from the origin position (print start point) with following margin. The illustration below is an example of the printed result.



a=5 mm *1 b=5 mm to 25 mm *2 c=5 mm d=5 mm to 25 mm *2

- *1 The margin will be 15 mm in the following cases:
 - The first printing after media initialization
 - When feeding the media backward by using key.

The margin will be 40 mm in the following cases:

- When the Media Initial menu is set to "Top&Width"
- After cutting the media
- *2 Side margin can be changed from the Side Margin menu

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Media size

Media outer diameter	up to 200 mm
Paper core diameter	2 inches: 50 mm to 52 mm 3 inches: 75.5 mm to 79 mm
Weight	up to 30 kg
Width	500 mm to 1,625 mm
Recommended media thickness	up to 1.0 mm

□ Important!

The factory default head height is set to "Low".

In the "Low" setting, media up to 0.3 mm thick can be loaded on the printer.



For recommended media, please contact your local MUTOH dealer.

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Cautions on handling media

When handling media, please note the following:

· Media should be used in an appropriate environment. The temperature and humidity suitable for printing are as follows

Recommended Printing	Temperature: 22 $^{\circ}$ C to 30 $^{\circ}$ C
Environment	Humidity: 40 $^{\circ}$ to 60 $^{\circ}$, non condensing
Change rate	Temperature: within 2 ° C per hour Humidity: within 5 % per hour

- Use media with no fold, scratch, tear or curl.
- The size of media may change according to changes in humidity in the printing environment. Before using
 media, leave it for 1 hour in the printing environment to adapt it to the environment.
 If printing is started before the printer is accustomed to the printing environment, paper jams may occur due
 to misalignment or wrinkling of the printed media. It also has a negative impact on print quality.
- When used in a low-humidity environment, cut media may not fall off depending on how the media is affixed. In such cases, after cutting the media tip, open the front cover and remove the media.
- · Do not use heat sensitive media. It will deform during ink curing by UV light.
- Do not touch the printing surface of the media. Moisture and oil on your hands can affect print quality.
- Do not leave media loaded for long periods of time.
 Some media may become habitual, causing paper lift, paper jams, and poor print quality. Avoid using such media, especially during winter and dry periods.
- Printing on a light reflective material may have a chance to cure the ink on the print head, causing malfunction or damage to the printer.
- Do not discard the original packaging box and plastic bag of roll media. You will use them for storing media.

Precaution on storing media after use

When storing roll media after use, follow these precautions to avoid print defects caused by wrinkles:

- After removing your roll media from the media flange, wind it back onto the roll properly and put it in the
 original plastic bag. Then store it in the package it came in.
- Avoid high temperature, high humidity, and direct sunlight when storing media.
- Keep the media dry.

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Please use this printer regularly

It is recommended that printers be used once a week.

If left unattended for a long period of time, the nozzles of the print head will clog, causing a malfunction.

Please handle ink bag carefully

- Before using the ink pack for the first time, be sure to read the Safety Data Sheet (SDS) before carrying out any
 work.
- Do not disassemble the ink pack.

 When decomposed, the ink may get into the eyes or on the skin, causing irritation or allergic reactions.
- Wear gloves, protective glasses, and a mask when handling ink packs.
- When handling ink packs, be careful not to get ink in your eyes or on your skin.
 If it gets into eyes or adheres to skin, rinse immediately with water. If left untreated, it may cause redness and mild irritation of the eyes. If irritation is present, seek medical advice and attention immediately.
- Do not drop the ink pack or hit it hard. Ink may leak.
- Use inks within its shelf life.
 Expired ink should be disposed of as industrial waste, and empty ink packs should be placed in plastic bags and disposed of in accordance with local ordinances and municipal regulations.
- Use of genuine ink is recommended.
 The printers are manufactured to perform at full capacity by using genuine MUTOH inks. Use of non-genuine ink may adversely affect the product itself and print quality.

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Please conduct maintenance regularly

Printers require routine maintenance.

- Perform nozzle checks before and after printing.
 If the nozzle is clogged, perform head cleaning.
- Please be sure to carry out daily maintenance after the end of the work day. Failure to perform daily maintenance may result in poor image quality or malfunction. To all ymaintenance at the end of work P.143
- Clean the cleaning wiper, the outer circumference of the cap, and the outer circumference of the print head once a week.
- If not used for long periods of time*, head cleaning should be performed once a week.
 If head cleaning cannot be performed, perform long-term storage. "Long-term storage" P.179
 *When "Not in use for an extended period of time" is defined as leaving it unattended for a week to a month.
- Internal cleaning should be performed once a month.
- Check the waste ink tank regularly and drain the waste fluid before it becomes full.

Some parts need to be replaced periodically

Some parts of the printer will need to be replaced after prolonged use.

- Parts that need to be replaced by the user:
 Spitting boxe, cutters, cleaning wipers, absorbent material for wipers, UV-LED unit filters, UV-LED unit glass
- Parts that need to be replaced by service personnel:
 Various motors, various pumps, print heads



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Printing workflow

The basic workflow for printing is as follows

- 1. Turn on the power.
 - Turn on the printer" P.43
- 2. Load media into the printer.
 - The Load the media into the printer P.45
 - **"Using the Take-up unit with the printer" P.57**
- 3. Run a nozzle check (perform cleaning if needed)
 - **™ "Nozzle check and head cleaning" P.61**
- 4. Adjust printing accuracy. (When necessary)
 - **™** "Calibrating your printer" P.65
- 5. Print a design.

This section explains how to print using our genuine "VerteLith" RIP software.

- **™** "Start printing" P.66
- 6. End the printing operation.
 - Toally maintenance at the end of work P.143

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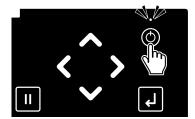
Turn on the printer

Close the front cover.

- 2 Long press the power button on the control panel.
 - The power LED (above the power button) and each key light up.
 - The printer initialization begins.



- Once the power LED lights up, release the power button.
- The take-up unit rotates during initial operation.



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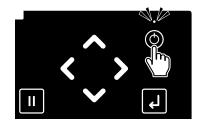
Operating from the printer control panel

Turn off the printer

- Ensure that printing is complete and media has been removed.
- 2 Long press the power button on the control panel.
 - Perform a daily maintenance before entering into sleep mode.

Mote Note

- Tap (Cancel) will turn off the printer without performing a daily maintenance.
- Powering off without daily maintenance could cause nozzle clogging. Normally make sure to perform a daily maintenance.



- 3 Tap 🗗 (Enter).
 - The carriage moves to the maintenance space on the left side.



- Perform a daily maintenance.
 - Toally maintenance at the end of work P.143
- Once the daily maintenance is done, tap 🔃 (Enter).
 - "Power Off" appears and the printer turns off. The LED above the power button turns off.



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Load the media into the printer

(Important !

Depending on the size of media, two or more people are required.

Loading the media into the printer

Follow these steps to load the media into the printer.

1. Attach the flange to the media

Items Required:

· Media: 1 piece

• Media flange: 2 pieces

Replace the flange adapter depending on the size of paper core of roll media.

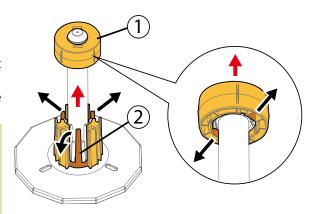
■ When using media with a paper core inner diameter of 2 inches:

Remove the 3-inch adapter from the media flange.

- ①: Pull two tabs on the adapter outward, then remove it from the flange.
- ②: Pull three tabs on the adapter outward, then remove it from the flange.

◯ Note

- If ② adaptor cannot be removed, turn the handle on the flange anticlockwise to loose (see Step 2), then remove it.
- If you are using 3-inch core roll media, skip this step.



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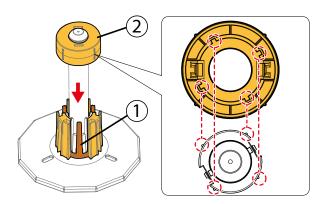
■ When using media with a paper core inner diameter of 3 inches:

Attach the 3-inch adapters to the media flange.

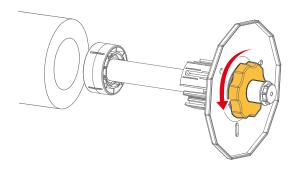
- ① : Align the tabs (x3) on the adapter with the dents on the base of flange to click into place.
- ② : Align the notches (x4) on the inside of adapter with the protrusions (x4) on the leading edge of media flange as shown to the right to attach it to the edge of the media flange.



If ${\mathfrak Q}$ adapter is misaligned, it will not be properly fixed to the media flange.



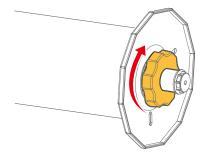
- Push the media flange (x2) into the both ends of the media core.
 - Before inserting, twist the handle on the flange anticlockwise to unlock it.



Twist the handle clockwise to lock the flange.

□ Important!

Check that the flange is firmly locked. If not, the media can be removed from the flanges while printing, affecting the print quality.



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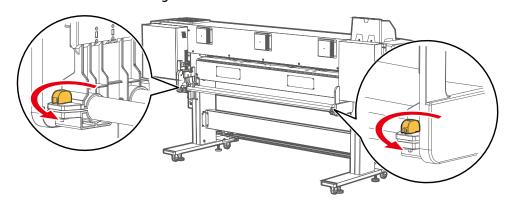
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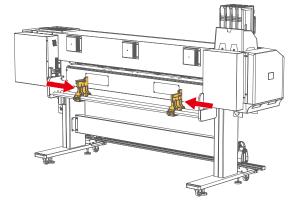
Twist the knob bolt on the left and right media holders anticlockwise to loosen.

2. Enabling torque on media holders

If you want to apply torque to the media holders, follow these steps.



Slide both left and right media holders about 30 cm towards the center of the slider for easy access.



3 Tighten the knob bolts on both media holders.

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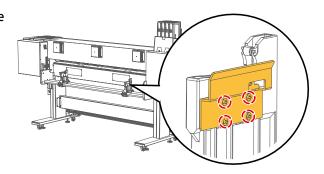
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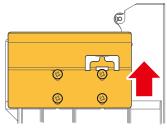
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(When looking from the rear side of the printer) Use the screwdriver to loosen four screws securing the roller shaft guide plate to the right media holder.

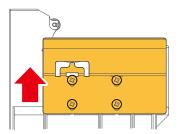


Slide up the roller shaft guide plate as far as it will go and tighten the screws.



Roller shaft guide plate (right)

Do the same for the left media holder to slide up the roller shaft guide plate as far as it will go and tighten the screws.



Roller shaft guide plate (left)

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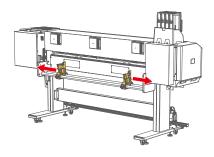
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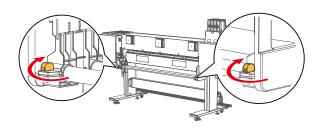
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Loosen the knob bolts and slide back both media holders to the original position.

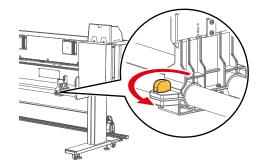


Tighten the knob bolts on both media holders.



3. Placing the media onto the media holder

Twist the knob bolt on the right side of the media holder anticlockwise to loosen.



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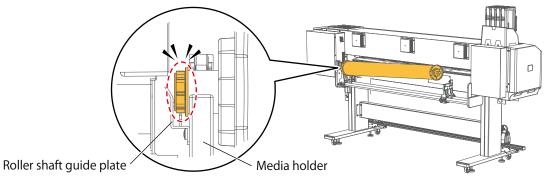
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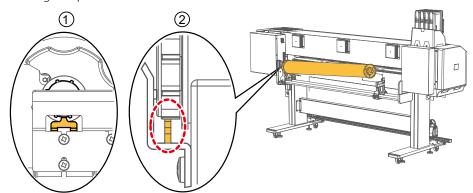
Place the roll media onto the left media holder. Carefully and gently place it on the holder.

• Place the flange between the roller shaft guide plate and the media holder as shown in the illustration.



If you have enabled torque, check the following.

- ① : When looking from the side, check that the protrusion on the roller shaft guide plate is fitted into between two protrusions on the flange end cap.
- ②: When looking from the rear side of the printer, check that the flange end cap is properly placed on the protrusion on the roller shaft guide plate.



(Important!)

- Do not drop or apply excessive impact while placing the media. This will cause damage to the part.
- When you adjust the position of the media holder (left), do not move it more than 450 mm away from the left-hand end. The printer will not be able to detect media.

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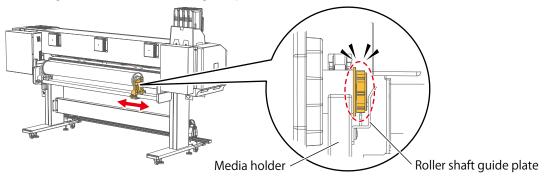
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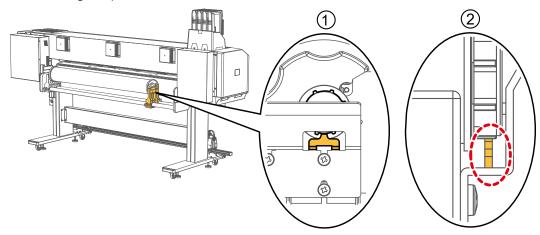
Place the roll media onto the right media holder. Carefully and gently place it on the holder.

- Slide the right side of the media holder to place the right side of the flange onto the holder.
- Place the flange between the roller shaft guide plate and the media holder as shown in the illustration.



If you have enabled torque, check the following.

- ① : When looking from the side, check that the protrusion on the roller shaft guide plate is fitted into between two protrusions on the flange end cap.
- ②: When looking from the rear side of the printer, check that the flange end cap is properly placed on the protrusion on the roller shaft guide plate.



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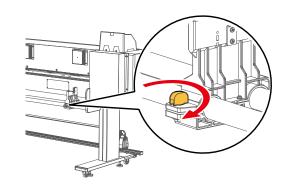
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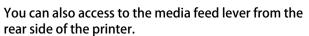
Operating from the printer control panel

Twist the knob bolt on the right side of the leading holder clockwise to tighten.

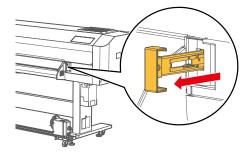


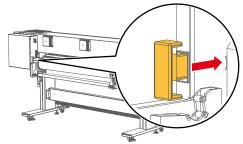
4. Loading the media into the printer

- Check that the printer is powered on.
- Pull the media feed lever to the very front and raise the pressure rollers.



• To release the pressure rollers, push the lever as far as it goes.





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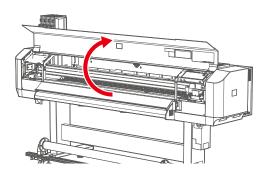
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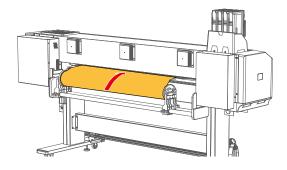
Advanced settings

Operating from the printer control panel

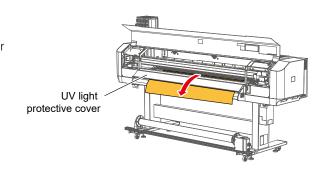
3 Open the front cover.



From the rear side of the printer, insert the leading edge of the media into the media slot.



- From the front side of the printer, pull the media for approximately 1 m.
 - Pass the media between the UV light protective cover and the media guide and pull it.



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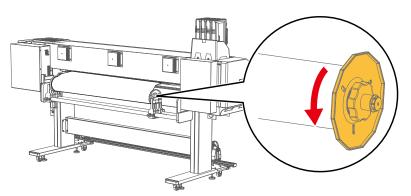
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While one person holds the leading edge of the media, the other person turns the flange to slightly rewind the media onto the roll to remove warp or skew.

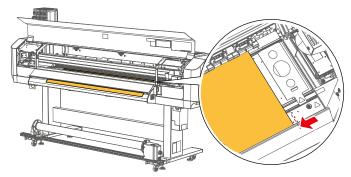


Mote Note

If you remove your hands from the leading edge of the media while rewinding, the media can be removed from the media slot.

7 Check that the right-hand edge of the media is located at the left side of the media guide line.

• If not, print quality can be affected.



8 If necessary, change the pressure of the pressure rollers individually.

Thange pressure of pressure rollers individually P.76

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5. After loading the media

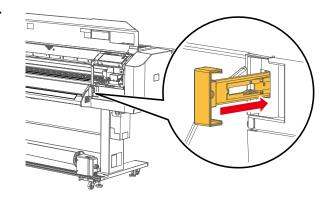
1

Push the media feed lever to lower the pressure rollers.

Mote Note

Using the media feed lever, the pressure can be changed to the two levels (Normal/ High). For normal use, pull the lever towards you until it clicks to set the pressure to "Normal".

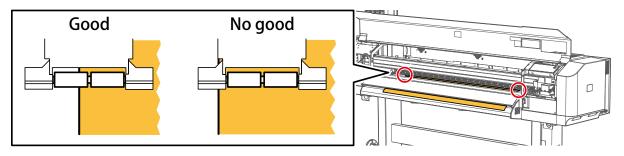
☞ "Change pressure that comes onto entire media" P.75



Check that both edges of the media are held down properly by the pressure rollers.

• If it is held like "No good" example, pull the media feed lever towards you as much as possible, then adjust the position of the left or right side of the media holder until the both edges of the media are held down properly.

☞ "3. Placing the media onto the media holder" P.49



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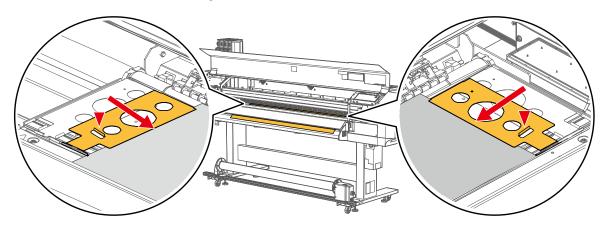
Start printing

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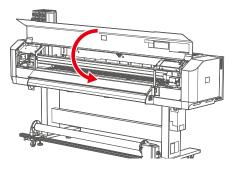
Operating from the printer control panel

Place the edge holders on both edges of the media.

• Lift up the tab on the front of edge holder so that the center of edge holder is lifted. Move and place it on the edge of the media while the center of the edge holder is lifted.



Close the front cover.



- "User: Type** OK?" will be displayed.
 - Select the User Type to be used with the 🔼 / 💟 keys.
 - Tap (Enter) to perform a media initial.
 - Exit the Media Set.

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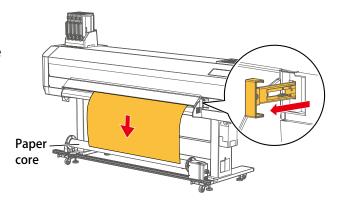
Advanced settings

Operating from the printer control panel

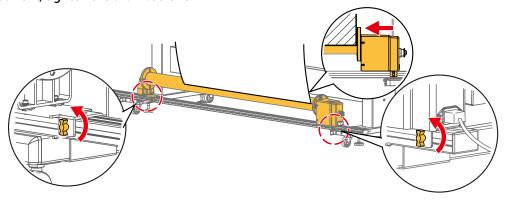
Using the Take-up unit with the printer

To wind up the media, follow these steps to load the media into the take-up unit.

- Using the printer control panel, make necessary setting(s) to use the take-up unit.
- ™ "Menu 1: Setup menus" P.90 > "Output Mode" P.92
- Pull the media feed lever to the very front and raise the pressure rollers.
 - Pull out the paper until its leading edge reaches the paper core.



- Loosen the two thumbscrews on the take-up unit and adjust the paper core by shifting it left or right so that the right end of the paper core is aligned with the right end of the media.
 - After adjustment, tighten the thumbscrews.



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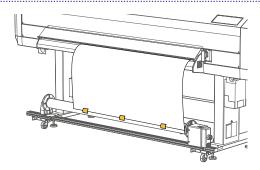
4

Tape the leading edge of the media to the paper core of the take-up unit.

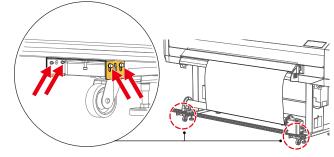
• Ensure that the leading edge of the media is parallel to the paper core. If they are not parallel, follow the procedure of step 5 through 7 to adjust it.



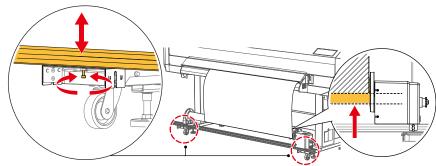
This illustration shows when winding media with printed side facing out.



Susing the supplied hex wrench, gently loosen the eight hex screws securing the rail holder.



- Adjust the height of both ends of the rail. Turn one hex screw on the underside of the rail base with the supplied hex wrench so that the leading edge of the media is parallel to the paper core.
 - To raise height: Turn the screw counterclockwise
 - To lower height: Turn the screw clockwise



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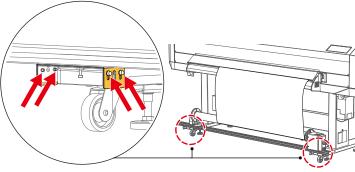
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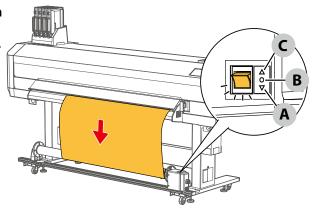
7 Tighten the eight hex screws securing the rail holder firmly.



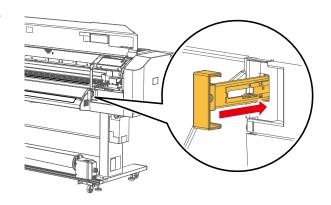
- Turn the operation switch to A or C and wind the media for about two rounds.
 - A: Wind media counterclockwise (printed side facing out).
 - B: Stop
 - C: Wind media clockwise (printed side facing in).

Mote Note

- Operation switch turns green during operation.
- Make sure that the operation switch is turned on (to wind) while printing.



9 Push the media feed lever to lower the pressure rollers.



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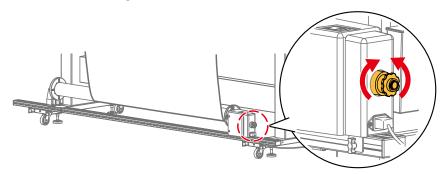
Advanced settings

Operating from the printer control panel



To change the winding force, adjust the torque adjustment screw.

- Clockwise: Increase the winding force
- Counterclockwise: Decrease the winding force



Mote Note

Adjust it when the media is loose on the paper core or the take-up unit is not winding correctly.

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Nozzle check and head cleaning

Check nozzles before each day's work. If the nozzle is clogged, perform head cleaning.

Performing Nozzle Check

Run a nozzle check print to see if the print head fires ink properly.

- Load media and detect media width.

 "Load the media into the printer" P.45
- Tap Key while "Print Ready" is displayed.
 - "Nozzle Check F Start -> Enter" will be displayed.

Mote Note

A nozzle check can also be performed from the following menu:

- 1. Tap 🔝 (Home). "Setup" will be displayed.
- 2. Tap ▲ / ★ key to select "Test Print".
- 3. Tap > key to display "Nozzle Check F".
- 3 Tap 🔃 (Enter).
 - The printer begins printing a nozzle check pattern.

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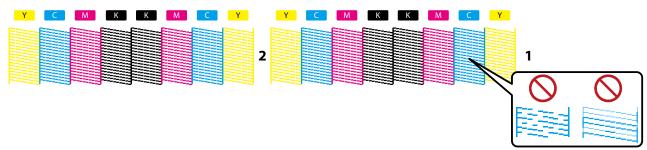
Advanced settings

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4

Check the pattern printed.

• If the nozzle is clogged, go to "Performing Head cleaning" P.63.



◯ Note

Printer information (print time, serial number, and firmware version) is printed next to the pattern.

Important!

If you run a nozzle check print immediately after the initial ink charging, the following symptoms may occur.

- Lines are faded.
- Patterns are partially missing.

In such cases, perform "Little Charge" cleaning. If it does not help to solve the problem, leave the printer for at least one hour, then perform cleaning or "Little Charge" cleaning again. If the problem still persists, please contact your local MUTOH dealer.

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Performing Head cleaning

If the nozzle is clogged, perform a head cleaning. The product has several cleaning modes. Select an appropriate mode depending on the result of the nozzle check print.

■ Head cleaning mode

Short Cleaning	Consumes a small amount of ink.
Normal cleaning	Select this mode if there are nozzle clogging.
Long cleaning	Select this mode if nozzle clogging persists even if "Normal cleaning" was performed.
Little Charge * "Cleaning" menu only	Gives high cleaning efficiency, but consumes large amount of ink. "Menu 3: Cleaning" P.111
Initial Charge * "Cleaning" menu only	Offers more powerful cleaning than "Little Charge", but consume large amount of ink. "Menu 3: Cleaning" P.111

📢 Important!

When performing "Little Charge" and "Initial Charge", observe the followings:

- * If the operation is interrupted, a large amount of ink is consumed to re-fill the ink.
- Do not turn off the power.
- Do not unplug the power cord.
- Do not open the front cover or maintenance cover.
- Do not raise the pressure rollers.
- Do not remove the ink bag case or smartchip card.
- Do not use ink bags with low ink levels.

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1 Tap key.

• "Clean Print Head?" will be displayed.



The following procedure allows you to select the print head (All / Head1 / Head2) you want to clean.

- 1. Tap (Home). "Setup" will be displayed.
- 2. Tap ▲ / ★ key to select "Cleaning".
- 3. Tap key to display "Select Print Head: ".
- 4. Tap ✓ / ✓ key to select the print head to be cleaned.
- Use / W key to select an appropriate cleaning mode.

3 Tap 🔃 (Enter).

• The cleaning cycle begins.

Run a nozzle check print to see all nozzles are clear.

Performing Nozzle Check" P.61

• If the nozzle clogging persists, repeat the Normal cleaning.

Mote Note

If nozzle clogging persists after repeated Normal cleaning attempts, try the following solutions for a reference.

- 1. Perform a Long cleaning. (If the problem persists, move to the next one)
- 2. Clean the following parts. (If the problem persists, move to the next one)
- 🐨 "4. Clean the cleaning wiper and the parts around the capping unit" P.150
- 3. Clean the parts around the print head" P.149
- 3. Perform a Little Charge cleaning. (If the problem still persists, move to the next one)
- @ "Menu 3: Cleaning" P.111
- 4. Perform a soak cleaning.
- ® "Menu 12: Soak Cleaning" P.127

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The following calibration must be performed before you print for the first time.

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• "Adjust Head" P.108

This product is equipped with two printheads. This adjustment will calibrate dot placement between two print heads. After performing 「Adjust Head」, you must perform 「Print quality calibration (Adjust Print)」.

- "Print quality calibration (Adjust Print)" P.97
- This calibration adjusts dot placement position for bidirectional printing. Enter the thickness of the media before adjusting.
- "Media feed adjustment" P.102

This adjustment corrects the amount of media feed.

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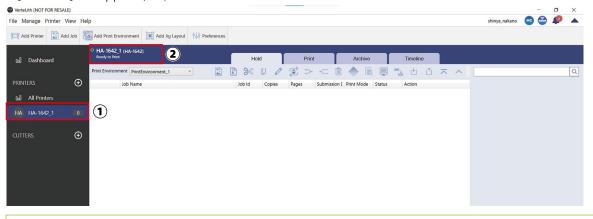
Start printing

This section describes the basic printing procedure using VerteLith.

Please refer to the separate "VerteLith User Manual" for VerteLith setup and detailed operating instructions.

Start VerteLith. Select "HA-1642" from the list of printer (①).

• [HA-1642] will appear (2).



Mote Note

For how to add a printer to VerteLith, see the VerteLith user manual.

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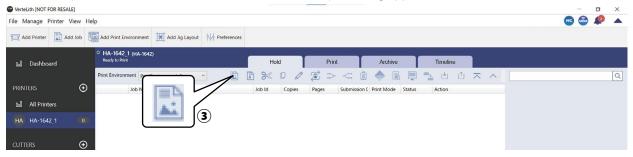
Start printing

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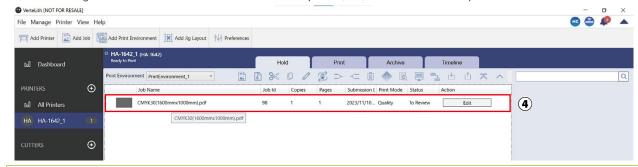
Operating from the printer control panel

Add an image file you want to print.

• In the Hold queue, click the [Add Job] icon (3) so that the open dialog appears.



• Select an image file and click [OK] to add it to the Hold queue (④). You can add multiple files here.





You can also drag and drop files in the Hold queue.

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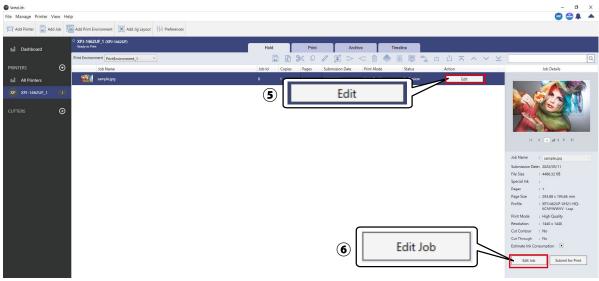
Calibrating your printer

Start printing

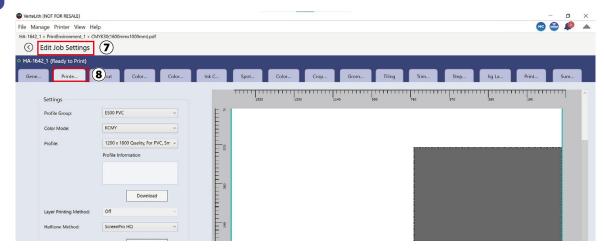
Advanced settings

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Select a print job and click [Edit](⑤) or [Edit Job](⑥).



[Edit Job Settings]($\mathfrak D$) appears. Click the Printer Profile tab ($\mathfrak B$).



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Configure the basic print settings.

Profile Group option (9)

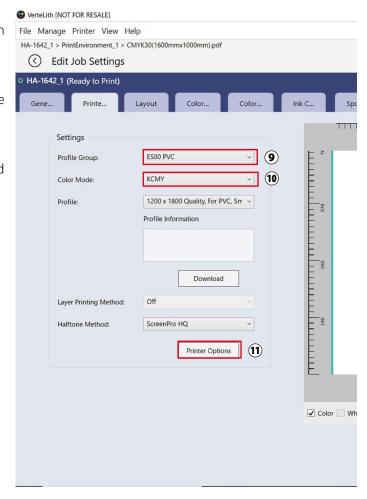
• Select an appropriate profile group depending on the ink being used.

Profile option (10)

• Select an appropriate profile depending on the media type and print mode.

Printer Options (11)

 Additional advanced settings can be configured (you can also print with default settings).



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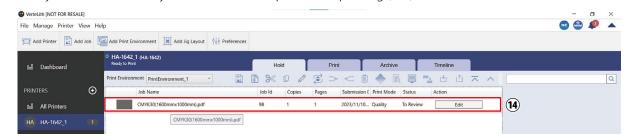
Once you have set the print settings, click [Submit for Print](②) so that the job will move to the Print queue. Printing begins after RIP processing.



• The processing status of the job (Sending, Waiting for ripping, Ripping, Waiting for Print) can be viewed (3).



• The job will automatically move to the Hold queue after printing (4).



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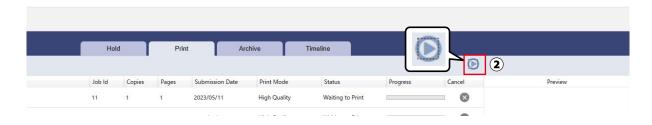
Operating from the printer control panel

Pause / Resume / Cancel a print job

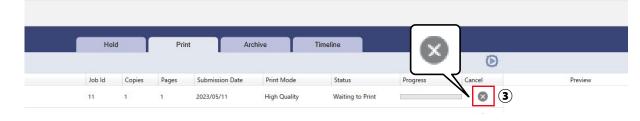
Clicking the [Pause Print] icon (①) will put the RIP processed job into "Waiting for Print" status (you cannot pause the job being sent).



Clicking the [Resume Print] icon (②) will resume the print job which is in "Wait for Print" status.



Clicking the [Cancel] icon ($\mathfrak 3$) will cancel printing the job.



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Advanced settings

Change the printer settings depending on the media being used and how it is used.

- When the media rubs against the print head and gets dirty
- **Print head Height" P.73**
- · When printing on thin or soft media
- **"Change pressure that comes onto entire media" P.75**
- **"Change pressure of pressure rollers individually" P.76**



When printing on thin or soft media, reducing the vacuum fan is also helps to prevent wrinkling.

"Vacuum Fan" P.91

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Print head Height

Normally choose the "Low" or "Middle" head height option depending on media thickness.

The closer the distance between the media and the print head, the better the consistency of the image quality.

(Important !

Depending on the condition of the media and wrinkling caused by printing conditions, you may get a head strike causing ink smears on the media. In such cases, try the following

- Lower the preheater and platen heater temperature settings.
 "Menu 1: Setup menus" P.90 > "User Type" P.90 > "Preheater" P.91, "Platen Heater" P.91
- Reduce/cancel the pressure on the individual pressure rollers holding down the area where the wrinkle occurred.

 "Change pressure of pressure rollers individually" P.76
- After you change the head height, make sure to perform the print quality calibration (Adjust Print).
- Do not open the front cover to switch head height during printing. Switching the head height will change the "Print quality calibration (Adjust Print)" and print quality cannot be guaranteed.

See the following table for the relationship between head height and recommended media thickness.

Avoid using higher head height unless absolutely necessary, as the wider head gap will cause ink mist to adhere to the nozzles, media, and inside the machine, which may result in poor print quality and damage to printer parts

Head height	Recommended media thickness (1.0 mm or less)	Maximum media thickness that printer can feed	Description
Low	Max. 0.3 mm	0.3 mm	Normally use this head height.
Middle	0.3 mm to 0.8 mm	0.8 mm	Use this option for media between 0.3 mm to 0.8 mm thick or when the head strikes occur with Low setting.
High	0.8 mm to 1.3 mm	1.3 mm	Avoid using this option if a head strike does not occur with Middle setting. Because of wide distance between the print head and media, printing with "High" setting will generate ink mist, Nozzle clogging Ink smudges due to ink mist Ink sticking inside of the printer

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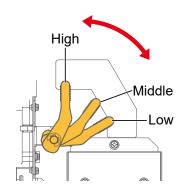
Operating from the printer control panel

Change head height

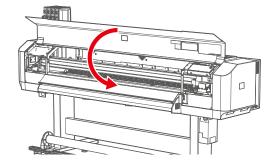
Open the front cover.

Use this lever to change the head height.

Head height	Description	
High	The highest head height setting.	
Middle	Use this option for media between 0.3 mm to 0.8 mm thick or when the head strikes occur with Low setting.	
Low	Default head height. The lowest head height setting.	



3 Close the front cover.



4 Perfori

Perform "Print quality calibration (Adjust Print)".

☞ "Print quality calibration (Adjust Print)" P.97

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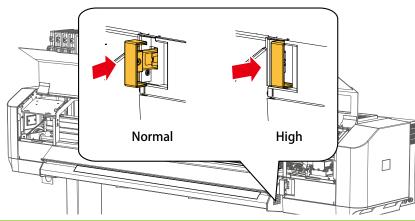
Advanced settings

Operating from the printer control panel

Change pressure that comes onto entire media

If you want to change the holddown pressure applied across the entire width of media, change it using the media feed lever. Using the media feed lever, the pressure can be changed to the two levels (Normal/ High).

- Normal: Recommended for typical roll media. To apply "Normal" pressure, push the lever from the front side of the printer until it clicks.
- High: Recommended for heavy weight media (such as Tarpaulin). To apply "High" pressure, push it as far as it goes.



📢 Important!

Every time after you change the holddown pressure by the media feed lever, you must perform the media feed adjustment.

™ "Media feed adjustment" P.102

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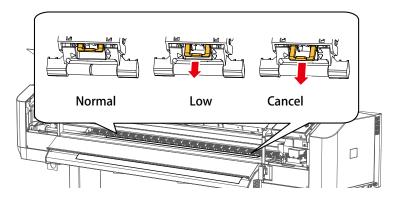
Advanced settings

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Change pressure of pressure rollers individually

When printing on thin or soft media, sometimes the media hits the print head causing ink smudge on the media. By reducing pressure or disabling the pressure rollers individually, it helps to reduce the chance of head strike. The slide lock lever on each pressure rollers can be used to change the pressure to "Normal", "Low", or "Cancel".

- Normal: Recommended for typical roll media. The factory default is set to "Normal".
- · Low: Less pressure than "Normal".
- Cancel: The pressure rollers that were set to "Cancel" by the slide lock lever remain in UP position even if the media feed lever is pushed in.



📢 Important !

- Changing the slide lock lever to "Normal" or "Low" while the media feed lever is fully pulled towards you (pressure rollers are up) can cause malfunction. Follow the operation procedure on the next page to change the pressure.
- Every time after you change the holddown pressure by individual slide lock lever, you must perform the media feed adjustment.

☞ "Media feed adjustment" P.102

Mote Note

Thin or stiff media tends to wrinkle easily during printing. Wrinkles can contact the bottom side of the print head causing ink smudge on the media. Canceling the pressure rollers on both edges of media will help prevent wrinkling. First, try with the pressure rollers holding both ends of the media. If the problem persists, reduce or cancel more rollers.

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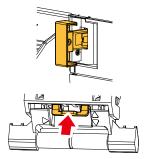
Start printing

Advanced settings

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- Open the front cover.
- Change the position of the media feed lever and the slide lock lever depending on the use.

 To change the position of the slide lock lever, push the lever down then change the position
 - To set the slide lock lever to "Normal"
 - 1. Set the media feed lever to the "Normal" set position.
 - **"Change pressure that comes onto entire media" P.75**
 - 2. Set the slide lock lever to "Normal".
 - Push the lever all the way in.





If you want to change the pressure that comes onto entire media to "High", push the media feed lever all the way in after changing the pressure using the slide lock lever.

"Change pressure that comes onto entire media" P.75

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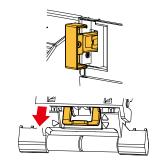
Operating from the printer control panel

● To set the slide lock lever to "Low"

1. Set the media feed lever to the "Normal" set position.

Thange pressure that comes onto entire media P.75

- 2. Set the slide lock lever to "Low".
- Pull the lever towards the front until it clicks into place.



Mote Note

If you want to change the pressure that comes onto entire media to "High", push the media feed lever all the way in after changing the pressure using the slide lock lever.

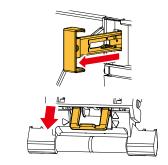
"Change pressure that comes onto entire media" P.75

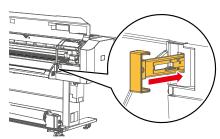
- To set the slide lock lever to "Cancel"
- 1. Pull the media feed lever to the very front and raise the pressure rollers.
- 2. Set the slide lock lever to "Cancel".
- Pull the lever to the very front.
- 3. Push the media feed lever to lower the pressure rollers.



Using the media feed lever, the pressure can be changed to the two levels (Normal/ High). For normal use, pull the lever towards you until it clicks to set the pressure to "Normal".

"Change pressure that comes onto entire media" P.75





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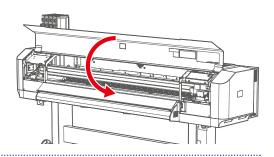
Calibrating your printer

Start printing

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3 Close the front cover.



4

Perform media feed adjustment

™ "Media feed adjustment" P.102

■ Restrictions on slide lock lever

When the media feed lever is set to "High", you can only choose between "Normal" and "Cancel". Even you set it to "Low", the holddown pressure will not be reduced.

Media fee	ed lever	Slide lock lever	
High		Normal / Cancel	
	Normal	Normal / Low / Cancel	

📢 Important!

Changing the slide lock lever to "Normal" or "Low" while the media feed lever is fully pulled towards you (pressure rollers are up) can cause malfunction.

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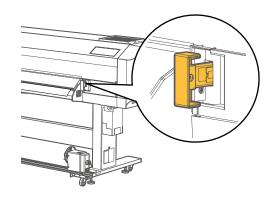
Start printing

Advanced settings

Operating from the printer control panel

Feeding media

Ensure that the pressure rollers is lowered.

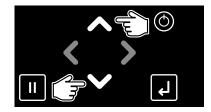


Operating from the printer control panel

- - Key: Feed the media backward.
 - 💌 Key: Feed the media forward.

◯ Note

Long touch the key to feed the media with high speed.



3 Once it has reached the intended position, release the key.

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Pause / Resume printing

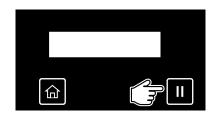
1 While printing, tap (Cancel).

• Printing pauses.



This operation does not delete the print data sent to the printer. To cancel printing and delete data, see the following section.

☞ "Cancel printing" P.82



2 Tap (Cancel) again to resume printing.



Print quality cannot be guaranteed if printing is paused.



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Cancel printing

1 While printing, tap (Cancel).

Printing pauses.



To resume printing, tap Cancel key again.



Tap (Enter) to cancel printing (Once canceled, you cannot resume the job again.)

• Print data sent to the printer is deleted.



You can also cancel the job from the remote panel on MSM.



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Start printing during warm-up

Check that the printer is warming up.

Warming Up

Send a print data.

Use ▲ / ★ key to select "Yes".

Skip Heater Warm Up?

NO

Tap (Enter) to start printing.

□ Important!

Print quality cannot be guaranteed if printing is started during warm-up.



If printing is started during warm-up, warm-up continues to the set temperature.



Caution



Do not touch the media guide while printing or when the message "Warming Up" appears on the panel. There is a risk of burn injuries.

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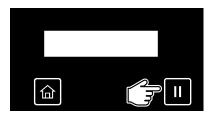
Operating from the printer control panel

Cutting Media



Ensure that printing is finished.

• Tap 🔳 (Cancel).



2

Tap (Enter).

• The printer will advance the media for the bottom margin and will cut it off the roll media.





- If the leading edge of a new roll media is not straight, cut it before printing.
- When the "Media Initial" menu is set to "Off", the printer does not cut the media automatically.
 - **™ "Menu 1: Setup menus" P.90 > "User Type" P.90 > ™ "Media Initial" P.92**
- When the "Output Mode" menu is set to "Auto Cut", the printer cuts the media automatically after printing.
- **™** "Menu 1: Setup menus" P.90 > "User Type" P.90 > **™** "Output Mode" P.92
- The cutter blade is consumable parts. Please replace consumables regularly.
 - **Replace the Cutter" P.167**

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Menus you can access while printing

Tap (Home) when one of the messages on the right is displayed.

Receiving	
PG: Low	W: 1625 mm
Printing	
PG: Low	W: 1625 mm
Converting	
PG: Low	W: 1625 mm

Use or very key to select the menu, then tap the key.

ltem	Description
Temperature	Check heater temperature. The current temperature and the specified temperature are displayed in []. • Use key to select the item you want to view.
	Note • The temperatures displayed are for reference only. Exact accuracy is not guaranteed.
	The current temperature blinks constantly regardless of whether the warm-up is completed or not.
Preheater Change heater temperature.	
Platen heater Dryer	Use ▲ / ★ key to change the settings, then tap (Enter).
	Note
	The change made will become invalid after printing.
	You can also save this change in the selected user type.
	© "Backup" P.86

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ltem	Description	
PF Micro Adjust	Correct the media feed amount. • Use ▲ / ★ key to change the settings, then tap 【 (Enter). Note • The change made will become invalid after printing. • You can also save this change in the selected user type. Backup" P.86	
Backup	Save the change made in the following menus to the selected "User Type". • Preheater • Platen Heater • Dryer • PF Micro Adjust • Use ✓ / ✓ key to select "Yes" and tap ✓ (Enter)	
Job status	Displays information about a print job being printed. • ToDoLength: Displays the length of print data. (media feed direction). • Done: Displays the length printed. • Print Remain: Displays the length of data which has not been printed yet. • Remain Time: Displays the time remaining to finish printing. • Use ✓ ✓ ✓ key to select the item you want to view. □ Note • The value displayed is reference only, not guaranteed. • If print data does not contain length information, "0" is displayed for all items.	
MPS	Displays the status of the MPS function. Settings for the MPS function can be changed from the MSM.	



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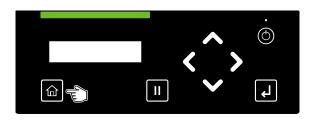
Menu 11: CR Maintenance

Menu 12: Soak Cleaning

Key operation

You will configure the various settings using the "Setup" menu.

1 To enter the "Setup" menu, tap 🔝 (Home).

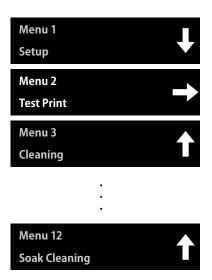


Mote Note

You cannot enter the "Setup" menu while printing or receiving data (while the power button is blinking).

Use 🔼 or 💟 key to scroll through the menu.

• Use key to enter the menu.



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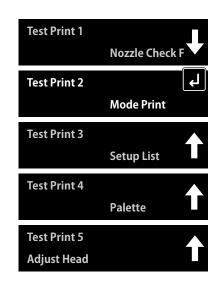
Roll Length Manage

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- Use ▲ / ★ keys to choose the option from a submenu or enter a numerical value.
 - (Enter): Tap to confirm the setting or run the selected function.
 - Key: Use to return to the upper level menu. (In the illustration on the right, it returns to "Menu 2: Test Print.")



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Menu 1: Setup menus

Menu List

Underlines in the setting range are default values.

Item	Range of values	Description
User Type	Type1 to Type15	Create your own media preset for each media type and save it with appropriate printer settings as "Type xx". You can define up to 15 user types.
Adjust Print "Print quality calibration (Adjust Print)" P.97		Perform bidirectional printing calibration to align dot placement position. You will enter the thickness of media before calibration. Note Warm up the heater and then start printing. Heating can be skipped, but this is not recommended because it will change the position of the dot landing.
Auto	Adjust Pattern A	The color sensor reads the adjustment pattern print and the printer runs automatic "Print quality calibration (Adjust Print)". If performing the auto calibration does not improve print quality (banding or graininess appears), run an "Auto" calibration again or perform "Custom" calibration.
Custom	Confirm Pattern, Rough Pattern A, Fine Pattern A	 Print an adjustment pattern and enter the number of the pattern that has the least misalignment. Confirm pattern: Prints a confirm pattern. Check for misalignment. Rough pattern: Perform this if misalignment is large. Enter the number of the pattern that has the least misalignment. Fine pattern: Perform this if misalignment is small. This menu prints an adjustment pattern at both ends and in the center of the media. Enter the number of the pattern that has the least misalignment.

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ltem	Range of values	Description
PF Adjust "Media feed adjustment" P.102		This adjustment corrects the amount of media feed.
Auto		The color sensor reads the adjustment pattern print and the printer runs automatic "Media feed adjustment".
Initial Print	100 to <u>250</u> to 500 mm	Specify the media feeding length and print an initial adjustment pattern.
Initial Change	Initial adjustment print ± 50.0 mm	Measure the adjustment pattern printed and enter the measured length.
Confirm Print	100 to <u>250</u> to 500 mm	Print a confirmation pattern to check the adjustment.
Micro Print	11 patterns: \pm 0 %, \pm 0.1 %, \pm 0.2 %, \pm 0.5 %, \pm 0.8 %, and \pm 1.2 %.	Print the adjustment pattern for fine adjustment.
Micro Change	- 5.00 to <u>0.00</u> to 5.00 %	Check the adjustment pattern for fine adjustment and enter the best fine adjustment value.
Preheater	Off, <u>30</u> to 50° C	Preheats media to control rapid temperature changes.
Platen Heater	Off, <u>30</u> to 50° C	Suppresses blurring of printed ink.
Dryer	Off, <u>30</u> to 50° C	Allow the printed ink to dry.
Vacuum Fan	Off, Low, Medium, <u>High</u> , Ex High	Select the suction power level to hold down media. For soft media, reduce the suction power.
Thickness	80 to <u>170</u> to 1300 um	Enter the thickness of the media being loaded. If the setting has already been made in the "Adjust Print" menu, no entry is required. "Adjust Print" P.90
Copy User Type	Type1 to Type15, ALL	The following settings of the selected user type can be copied to another user type: Adjustment value of Adjust Print/ PF Adjust / Vacuum fan / Thickness/ Various heater settings. When "ALL" is selected, these settings will be copied to all user types.

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Item Range of values		Description
Side Margin	<u>5</u> to 25 mm	Sets the left and right margins of the media.
		If media skewed, you will get ink smudge on the media that is held down by the edge holder. In such cases, the side margin should be set to more than 10 mm.
Media Initial	Off, Top&Width, Width	 Select how the printer detects the width of media. Off: No detection is performed. Enter the media width in the "Media Width" menu. Top&Width: Automatically detects the width and the leading edge of media. Width: Automatically detects media width.
Media Width	210 to 1000 to 1625 mm	Enter the width of media being loaded. If the Media Initial menu is set to "Width" or "Top & Width", the media width that the printer automatically detected will be displayed. A / K key in, then tap [1] (Enter).
Output Mode Off, <u>Take Up</u> , Auto Cut		 Select the how the printed media is processed. Off: Select this when you do not use the take-up unit. Take Up: Select this when you use the take-up unit. Auto cut: Automatically cuts media after printing.
Pull Back	Off, On	When set to "Take Up", this menu appears. Select "On" when you want to reduce the blank space between pages. The winding stops in the middle of the printing and once printing is finished, the media will then be fed backward. When you are using soft media Since the winding will stop in the middle of the printing, the media can get warped, causing it to contact the
InkDryTimer	<u>0</u> to 60 min	printhead. Set the time interval between after printing and before next printing for ink drying. Next printing will start when the specified time has passed.

Before Use	Key operation	Item	Range of values	Description
Basic Operations	Menu 1: Setup menus	Method of Cut	Single Cut - 2 steps Single Cut - 3 steps Double Cut - 2 steps Double Cut - 3 steps	 Sets the media cut operation after printing. Single Cut - 2 steps: Cut with less process than "Single Cut - 3 steps". Suitable for narrower width media. Single Cut - 3 steps: Normal cutting method.
Various settings	Menu 2: Test Print Menu 3: Cleaning		Bousie eut Batepa	 Double Cut - 2 steps: Select this when "Single Cut - 2 steps" cannot fully cut the media. Double Cut - 3 steps: Select this when "Single Cut - 3 steps" cannot fully cut the media.
Maintenance When problems occur	Menu 4: Menu Option Menu 5: System Info.			 When the "Media Initial" menu is set to "Off", media cutting will not be performed. "Media Initial" P.92 This option may not cut off some types of media. In such
Appendix	Menu 6: Sleep Mode			cases, set the "Output Mode" menu to "Off" and cut the media manually. Toutput Mode" P.92
	Menu 7: Initial Settings	Cut Pressure	Low, <u>High</u>	 Sets the pressure to cut the media. Low: Select this mode, when the High mode gives too much pressure or when you are using thin media. High: Normal cutting pressure.
	Menu 8: Job status Menu 9: Roll Length Manage	Origin	PF, CR	 Sets the print start position (origin).
	Menu 10: Media Adjustment			head moving direction (CR). • (Enter): Tap the key so that the carriage will move to the specified print start position.
	Menu 11: CR Maintenance			

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Item	Range of values	Description
Prevent Stick	Off, On	Feed media back and forth before printing to prevent media sticking. When the "Output Mode" menu is set to "Take Up", this menu will be disabled.
Standby Heating	10 to <u>60</u> min	Sets the heater off time after printing.
Head Travel	Data, Machine, <u>Media</u>	 Select the width that the print head travels for printing. Data: Travels the data width. Machine: Travels the full printer width. Media: Travels the media width.
Multi Strike	<u>1</u> to 9 cnt	Specify the number of times the printer prints the same line. Increase the number of times if you want to perform high density printing on transparent media.
Pass Wait	<u>0.0</u> to 5.0 sec	Sets the amount of time the carriage is paused each time it scans. Ink bleeding can be improved when ink does not dry easily, such as in layered applications.
Slant Check	Off, <u>On</u>	The printer checks skew after printing. If media skew is detected, an error message will be displayed.
Auto Cleaning		Set the type and timer of automatic cleaning. It prevents nozzle clogging.
Standby Mode		Sets the automatic cleaning to be performed while in ready-to- print state. Interval includes power off time. Auto-cleaning is not performed when the power is turned off, but is performed the next time the power is turned on.
Cleaning Type	Off, Short, Normal, Long	Sets the type of cleaning.
Cleaning interval	10 to <u>360</u> to 1440 min	Sets the timer for automatic cleaning.
While Printing		Sets the automatic cleaning to be performed during printing. When the print time setting is exceeded, cleaning begins. When cleaning is complete, printing resumes.
Cleaning Type	Off, Short, Normal, Long	Sets the type of cleaning.
Cleaning interval	5 to <u>180</u> min	Sets the timer for automatic cleaning.
Before Print		Sets the automatic cleaning to be performed before printing.
Cleaning Type	Off, Short, Normal, Long	Sets the type of cleaning.

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Item	Range of values	Description
Exhaust Fan	Off, <u>Low</u> , High	Exhausts the air inside the printer. Ink mist is also ejected, reducing contamination inside the printer. It is recommended to operate for long printing runs.
Longstore		Clean the print head. ADesignated maintenance cleaner is required. "Long-term storage" P.179
Initialization		Restores various settings to factory defaults.
ALL		Initializes all settings.
User Type		Initialize all the user types.
Except UserType		Initialize the settings other than user type.
Header Dump	Off, On, Dump, Print	 Select whether to print the following dump information for the print data (Data header / Data dot number / pint time / serial number / firmware version / receiving time / receiving size). Off: This information will not be printed. On: The printer prints an image data followed by dump information. "Receiving time" and "Receiving size" are not printed. Dump: The printer prints dump information except data dot number. Print: The printer prints the last dump information. "Receiving time" and "Receiving size" are not printed. The message "No data" will appear if there is no dump information in the history. Note Dump data is used for reference information when you receive technical support. When you are printing through computer, the print settings configured in the RIP software will be printed here.

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Item	Range of values	Description
Heater Control	Normal, Fixer, Dryer	 Sets heater operation. Normal: Printing starts when the heater reaches the specified temperature. Use this option when you do not experience media cockling. Fixer: Printing starts before the heater reaches the specified temperature. Printing colors may change. Dryer: Use this option when you are using the take-up unit or you want to reduce a chance of media cockling without reducing ink drying.
Start Feed	<u>0</u> to 500 mm	 Sets the margins between print data. When the "Output Mode" menu is set to "Off", the margin between print data will be the length specified in the "Start Feed" menu plus 10 mm. When the "Output Mode" menu is set to "Take Up", the margin between print data will be the length specified in the "Start Feed" menu. Margins between print data are set at 10 mm. "Start printing" P.66
Temporary		Temporarily displays the menu set to hidden in the "Menu Option" menu.

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Print quality calibration (Adjust Print)

This calibration adjusts dot placement position for bidirectional printing. Enter the thickness of the media before adjusting.

- Be sure to "Print quality calibration (Adjust Print)" in the following cases.
- 1. When using this product for the first time.
- 2. When you changed with the different type of media.
- 3. After you performed the "Adjust Head" calibration. Tadjust Head" P.108
- If any of the following symptoms are observed, please perform "Print quality calibration (Adjust Print)".
 - 1. When graininess look or blurred lines appear on the print in bidirectional printing.

■ "Adjust Print" has following menus:

Auto The color sensor reads

The color sensor reads the adjustment pattern print and the printer runs automatic "Print quality calibration (Adjust Print)". If performing the auto calibration does not improve print quality (banding or graininess appears), run an "Auto" calibration again or perform "Custom" calibration.

Custom

Print an adjustment pattern and enter the number of the pattern that has the least misalignment.

- Confirm pattern: Prints a confirm pattern. Check for misalignment.
- Rough pattern: Perform this if misalignment is large. Enter the number of the pattern that has the least misalignment.
- Fine pattern: Perform this if misalignment is small. This menu prints an adjustment pattern at both ends and in the center of the media. Enter the number of the pattern that has the least misalignment.

◯ Note

• To print an adjustment pattern, more than 550 mm width of printable area is required. If less than 550 mm, adjustment cannot be performed. Printable width on the media can be adjusted by changing CR origin and side margin (left and right side margin) settings.

The Media Width P.92, "Origin P.93, "Side Margin" P.92

• Heater warming up is performed before printing the pattern. The printer control panel will display the message "Skip Heater Warm Up? No". Printing can be started during warm-up, but this is not recommended because the dot placement position may change.

☞ "Start printing during warm-up" P.83

• If the image quality does not improve after adjusting the "Print quality calibration (Adjust Print)", "Adjust Head" may improve the image quality.

☞ "Adjust Head" P.108

Key operation

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Menu 12: Soak Cleaning



Caution



Do not touch the media guide while printing or when the message "Warming Up" appears on the panel. There is a risk of burn injuries.

1 Load media and detect media width.

The local was a second of the printer P.45

Make sure to load it without any warps or curls.

- Access the "Adjust Print" menu in the "User Type" menu.
 - 1. Tap (Home). "Setup" will be displayed.
 - 2. Tap key to display "User Type: Type**".
 - 3. Tap ▲/ ★ key to select any user type.
 - 4. Tap (Enter).
 - 5. Tap ▲ / ★ key to select "Adjust Print".
- 3 Tap key to display "Thickness: ".

Enter the media thickness.

- ► / ➤ Key: Enter a value
- (Enter): Confirm the setting
- 4 Tap ▲ / ★ key to select the adjustment method.

™ "Print quality calibration (Adjust Print)" P.97

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Menu 11: CR Maintenance

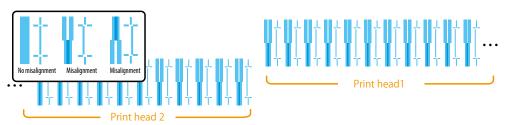
Menu 12: Soak Cleaning

Tap (Enter) to start the adjustment.

- (Cancel): Cancels printing.
- When "Auto" is selected: the calibration is performed automatically.
- If the adjustment is successful, "AutoAdjust Succeeded OK -> Enter" is displayed.
- If the adjustment fails, the message "AutoAdjust Failed OK -> Enter" is displayed. Redo the auto adjustment or perform a custom adjustment. The adjustment value for the pattern which has been failed to calibrate or has not been calibrated yet will not be saved in the printer.

Mote

- If performing the auto calibration does not improve print quality (banding or graininess appears), run an "Auto" calibration again or perform "Custom" calibration.
- When "Custom" is selected: Prints the "Confirm pattern".
- Check for misalignment. If there is no misalignment, proceed to the next step.



- If the amount of misalignment is large: Print a rough pattern. TROUGH pattern P.100
- If the amount of misalignment is small: Print a fine pattern. The pattern P.101
- Tap (Enter) to finish the adjustment.

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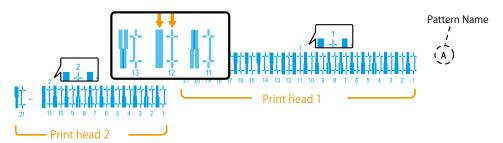
Media Adjustment

Menu 11: CR Maintenance

Menu 12: Soak Cleaning

Rough pattern

- 1. Perform a rough adjustment.
- Tap ▲ / ★ key to select the "Rough Pattern".
- Tap (Enter) to print the adjustment pattern.
- 2. Look at the print results for Print Head 1 and select the number written under the pattern that looks most aligned.



- 3. Enter the number of the pattern with no misalignment.
- For the above illustration, you will enter "Pattern A: 12".
- ► / ► : Change the number.
- (Enter): Confirm the change.
- 4. Enter the number for Print Head 2 in the same way.
- 5. Perform a fine adjustment.

Fine pattern P.101

Key operation

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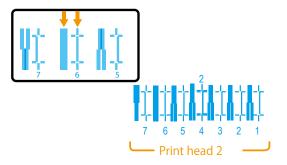
Menu 10: Media Adjustment

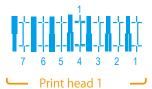
Menu 11: CR Maintenance

Menu 12: Soak Cleaning

Fine pattern

- 1. Perform a fine adjustment.
- Tap ▲ / ★ key to select the "Fine pattern".
- Tap [1] (Enter) to print the adjustment pattern. Adjustment patterns are printed on both ends and in the center of the media.
- 2. Look at the print results for Print Head 1 and select the number written under the pattern that looks most aligned.







- 3. Enter the number of the pattern with no misalignment.
- For the above illustration, you will enter "Pattern A: 6".
- ▲/▼: Change the number.
- [J (Enter): Confirm the change.
- 4. Perform an adjustment for Print Head 2 in the same way.

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Media feed adjustment

This adjustment corrects the amount of media feed.

- If any of the following symptoms are observed, please perform "Media feed adjustment".
- 1. When white or dark-colored lines appear the scanning direction of the carriage.
- Be sure to "Media feed adjustment" in the following cases.
- 1. When using this product for the first time.
- 2. When you changed with the different type of media.
- 3. When you changed the pressure on the pressure rollers.

■ "PF Adjust" has the following menus:

Auto	The color sensor reads the adjustment pattern print and the printer runs automatic "Media feed adjustment". • The value after the Auto adjustment is automatically saved in Micro Change. "Micro Change" P.102 • The value of Initial Change may be initialized. "Initial Change" P.102	
Initial Print	Initial Print Specify the media feeding length and print an initial adjustment pattern.	
Initial Change	Initial Change Measure the adjustment pattern printed and enter the measured length.	
Confirm Print	Print a confirmation pattern to check the adjustment.	
Micro Print	Print the adjustment pattern for fine adjustment.	
Micro Change	Check the adjustment pattern for fine adjustment and enter the best fine adjustment value.	

Mote Note

• To print an adjustment pattern, more than 400 mm width of printable area is required. If less than 400 mm, adjustment cannot be performed. Printable width on the media can be adjusted by changing CR origin and side margin (left and right side margin) settings.

™ "Media Width" P.92, "Origin" P.93, "Side Margin" P.92

• Heater warming up is performed before printing the pattern. The printer control panel will display the message "Skip Heater Warm Up? No". Printing can be started during warm-up, but this is not recommended because the dot placement position may change.

☞ "Start printing during warm-up" P.83

Key operation

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Menu 12: Soak Cleaning



Caution



Do not touch the media guide while printing or when the message "Warming Up" appears on the panel. There is a risk of burn injuries.

Load media and detect media width.

The local was a second of the printer P.45

Make sure to load it without any warps or curls.

- Access the "PF Adjust" menu in the "User Type" menu.
 - 1. Tap (Home). "Setup" will be displayed.
 - 2. Tap ≥ key to display "User Type: Type**".
 - 3. Tap ▲ / ★ key to select any user type.
 - 4. Tap [4] (Enter).
 - 5. Tap ▲ / ★ key to select "PF Adjust".

"Media feed adjustment" P.102

- 4 Tap 🔃 (Enter) to start the adjustment.
 - (Cancel): Cancels printing.
 - When "Auto" is selected: the calibration is performed automatically.
 - If the adjustment is successful, "AutoAdjust Succeeded OK -> Enter" is displayed
 - If the adjustment fails, the message "AutoAdjust Failed OK -> Enter" is displayed.

Mote Note

If white or dark colored line still appears even after auto adjustment, perform media feed adjustment manually.

- When other than "Auto" is selected: Terform manual media feed adjustment P.104
- Tap 🔃 (Enter) to finish the adjustment.

Key operation

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Perform manual media feed adjustment

You will need a ruler for this adjustment. Please prepare a commercially available ruler. If you already know the adjustment value, enter it in the "Micro Change" (Step9 (P.105)).

- 1. Perform an "Initial Print".
- Tap ▲ / ▶ key to select "Initial Print".
- Tap (Enter) to print the adjustment pattern.

◯ Note

- The default value for feed length is set to 250 mm. Increasing the feed length slightly improves the accuracy of "Media feed adjustment".
- 2. Cut the media if needed.
- 3. Using a ruler, measure the length between the printed " + ".



- 4. Enter the measured length in "Initial Change".
- Tap ✓ key to select "Initial Change".
- Enter the actual measured value and tap 🔃 (Enter).
- 5. Perform a "Confirm Print".
- Tap ▲/ ★ key to select "Confirm Print".
- Tap 🔃 (Enter) to print the adjustment pattern.

◯ Note

• The default value for feed length is set to 250 mm. Increasing the feed length slightly improves the accuracy of "Media feed adjustment".

Key operation

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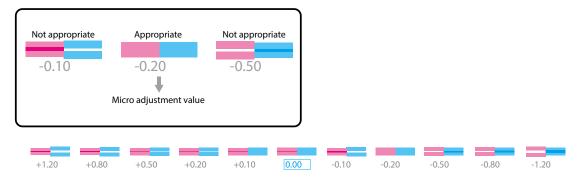
Menu 9: Roll Length Manage

Menu 10: Media Adjustment

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- 6. Cut the media if needed.
- 7. Using a ruler, measure the length between the printed " + " (as well as Step3 (P.104)).
- If the length being displayed and the measured distance match: proceed to the next step.
- If the length being displayed and the measured distance do not match: Start over from the "Initial Print" (Step1 (P.104)).
- 8. Perform a "Micro Print".
- Tap ▲/ ★ key to select "Micro Print".
- Tap [1] (Enter) to print the adjustment pattern.
- Look at the print and select the value written under the pattern that has least white lines or overlapping.



- 9. Enter the selected value in the "Micro Change" field.
- Tap ▲ / ➤ the key to select "Micro Change".
- Enter a value and tap 🔃 (Enter).

□ Note

• Once the micro adjustment value has been saved, the value will become the reference value to be printed in the center of the pattern from the next print. For example, if you have entered "-0.20" and print a micro adjustment pattern, values printed below block pattern will be changed to (from left to right) +1.00, +0.60, +0.30, 0.00, -0.20 (reference value), -0.30, -0.40, -0.70, -1.00, -1.40.

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Menu 2: Test Print

Menu List

Item	Description	
Nozzle check F "Performing Nozzle Check" P.61	Prints a nozzle check pattern using all nozzles.	
Mode Print	Prints the following information set in the currently selected User Type. • Settings of each heater □ "Preheater" P.91, "Platen Heater" P.91, "Dryer" P.91 • Micro adjustment value of media feed adjustment □ "PF Adjust" P.91 2021/10/08 0:00 Pre:30℃ / Platen:30℃ / Dryer:30℃ / PF Adjust:0.00%	
Setup List	Prints the settings configured in the printer and specified in each user type. Setup List Setup List Se	

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DE	foi	-	US.	е.

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(Menu 11: CR Maintenance)

lte	em	Description	
Pa	llet	Prints a color palette pattern.	
		COLOR INKJET PRINTER	
		PALE TYEE	
		And the first firs	
	ljust Head F "Adjust Head" P.108	This product is equipped with two printheads. This adjustment will calibrate dot placement between two print heads.	
	Custom	Print the adjustment pattern and enter the number of the pattern that has least misalignment. The color sensor reads the adjustment pattern print and the printer runs automatic "Adjust Head".	
	Auto		

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Adjust Head

This product is equipped with two printheads. This adjustment will calibrate dot placement between two print heads.

- Be sure to "Adjust Head" in the following cases.
- 1. When using this product for the first time.
- If any of the following symptoms are observed, please perform "Adjust Head".
- 1. When graininess look or blurred lines appear in the unidirectional printing.
- 2. When you noticed the misalignment between two print heads.
- 3. When the image quality does not improve even after "Print quality calibration (Adjust Print)" is performed.
- 4. Ink dot does not spread when printing on thin media.

■ "Adjust Head" has the following menus:

Auto	The color sensor reads the adjustment pattern print and the printer runs automatic "Adjust Head".
Custom	Print the adjustment pattern and enter the number of the pattern that has least misalignment.



- After performing "Adjust Head" be sure to perform "Print quality calibration (Adjust Print)". Misalignment may occur in the bidirectional printing due to the head alignment. Trint quality calibration (Adjust Print)" P.97
- If the image quality does not improve after performing the Auto Adjustment (banding or graininess is observed), redo the Auto Adjustment or perform a Custom Adjustment.
- To print an adjustment pattern, more than 550 mm width of printable area is required. If less than 550 mm, adjustment cannot be performed. Printable width on the media can be adjusted by changing CR origin and side margin (left and right side margin) settings. ** "Media Width" P.92, "Origin" P.93, "Side Margin" P.92
- Heater warming up is performed before printing the pattern. The printer control panel will display the message "Skip Heater Warm Up? No". Printing can be started during warm-up, but this is not recommended because the dot placement position may change. "Start printing during warm-up" P.83



Caution



Do not touch the media guide while printing or when the message "Warming Up" appears on the panel. There is a risk of burn injuries.

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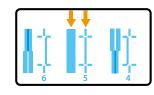
Menu 12: Soak Cleaning

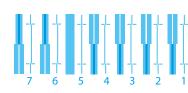
Head adjustment procedure

- Load media and detect media width.
 - The load the media into the printer P.45
 - Make sure to load it without any warps or curls.
- Access the "Adjust Head" menu.
 - 1. Tap 🔝 (Home). "Setup" will be displayed.
 - 2. Tap **★** key to display "Test Print".
 - 3. Tap key to display "Nozzle check".
 - 4. Tap ▲ / ★ key to select "Adjust Print".
 - 5. Tap key.
- Tap ▲ / ✔ key to select the adjustment method.

Tadjust Head" P.108

- Tap 🔃 (Enter) to start the adjustment.
 - (Cancel): Cancels printing.
 - When "Auto" is selected: the calibration is performed automatically.
 - If the adjustment is successful, "AutoAdjust Succeeded OK -> Enter" is displayed.
 - If the adjustment fails, the message "AutoAdjust Failed OK -> Enter" is displayed. Redo the auto adjustment or perform a custom adjustment. The adjustment value for the pattern which has been failed to calibrate or has not been calibrated yet will not be saved in the printer.
 - When Custom is selected: The adjustment pattern will be printed on both ends and in the center of the media.
 - 1. Check the printed results to find the pattern with the least misalignment.







- 2. Tap ▲ / ★ key and enter the number of the pattern with no misalignment.
 - For the above illustration, you will enter "Pattern A: 5".

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Tap [4] (Enter) to finish the adjustment.

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Menu 3: Cleaning

Clean the print head. You can select the heads to be cleaned and the type of cleaning.

Menu List

Item	Range of values	Description
Cleaning "Performing Head cleaning" P.63		
Select Print Head	All, Head 1, Head 2	Select the print head to be cleaned. If nozzle clogging is occurring in a particular printhead, ink consumption can be reduced by selecting the target printhead.
Cleaning Type "Head cleaning mode" P.63	Short, Normal, Long, Little Charge, Initial Charge	Select the cleaning type. Select an appropriate mode depending on the result of the nozzle check print. Initial Charge is displayed when "All" is selected for head selection.

(Important!

When performing "Little Charge" and "Initial Charge", observe the followings:

- * If the operation is interrupted, a large amount of ink is consumed to re-fill the ink.
- Do not turn off the power.
- Do not unplug the power cord.
- Do not open the front cover or maintenance cover.
- Do not raise the pressure rollers.
- Do not remove the ink bag case or smartchip card.
- \bullet Do not use ink bags with low ink levels.

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Menu 4: Menu Option

You can select items to be displayed in the "Setup" menu. Menu 1: Setup menus P.90

- Access the "Menu Option" menu.
 - 1. Tap (Home). "Setup" will be displayed.
 - 2. Tap ▲/ ★ key to display "Menu Option".
 - 3. Tap > key to select "User Type".
- Tap / W key to select an item to show/hide.
- Tap (Enter) to show or not to show the item.
 [*]: to be displayed, []: not to be displayed

◯ Note

"All On" and "All Off" can be used to show or hide all items at once.

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(Menu 11: CR Maintenance)

Menu 12: Soak Cleaning

Menu 5: System Info.

Displays printer information.

Menu List

Item	Description
Version	Displays the version of the firmware (M: Main, C: Controller).
Printer Model	Displays the model name of the printer.
Serial Number	Displays the serial number of the printer.
Color	Displays the ink set being used.
Total Print Area	Displays the cumulative area printed from the time of purchase to the present.
Ink Status	 Displays the amount of ink remaining in each ink bag (Unit: %). Use genuine ink and smart chip cards. Ink status will not be displayed correctly if non-genuine products are used. If the ink level is blinking at 10%, smart chip recovery is being performed for the corresponding ink bag. "Smartchip Recovery" P.193
Life Times	Displays remaining life of the parts that need to be replaced. Parts life is indicated by the number of [*] marks (max. 5 (100 % remaining)). The number of [*] marks decreases by one (20 %) as the life of the component approaches. Example: • [Pump 1
Ink expiration	Displays ink expiration date.

Key operation

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Menu 6: Sleep Mode

Sleep mode allows head cleaning to be performed periodically even when the printer is not in use. During sleep mode, all keys except the power button and (Enter) are disabled.

Menu List

Underlines in the setting range are default values.

Item	Range of values	Description
Cleaning Setting		Sets the automatic head cleaning to be performed during sleep mode.
Cleaning Timer	1 to <u>6</u> to 24 hours	Sets the timer for automatic cleaning.
Start		Perform a daily maintenance before entering into sleep mode. "Daily maintenance at the end of work" P.143 To wake up from sleep mode, tap (Enter). Sleep mode cannot be entered in the following cases • Errors are occurring (Ink End, No Bag, Full Waste Ink Tank, Cover Open, etc.) • Printer is running (e.g., during Media Initial, printing, etc.)

| Important!

If any of the following conditions occur during sleep mode, head cleaning will not be executed (operation will be stopped during head cleaning). When restored to normal conditions, head cleaning will resume.

- Front cover or maintenance cover is open.
- The pressure rollers is up.
- · Waste ink tank is full.
- Ink bag case is removed.
- Smart chip card is removed.
- A non-genuine smart chip card is inserted.

Key operation

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Menu 7: Initial Settings

Configure printer settings.

Menu List

Underlines in the setting range are default values.

Item	Range of values	Description
Language	English, Dutch, Spanish, France, Italian, Portuguese, German, Japanese	Select the language to be displayed on the panel.
Temperature	Celsius [° C], Fafrenheit [° F]	Select the temperature unit to be displayed on the panel.
Length	mm, inch	Select the length unit to be displayed on the panel.
IP Address	0.0.0.0 ~ <u>192.168.1.253</u> ~ 255.255.255.255	
Subnet Mask	0.0.0.0 ~ <u>255.255.255.0</u> ~ 255.255.255	
Gateway	0.0.0.0 ~192.168.1.254 ~ 255.255.255.255	
Alert Buzzer	Off, <u>On</u>	 Select how the alert buzzer beeps when an error occurs. On: The buzzer beeps continuously. Off: The buzzer stops after a certain number of beeps. This prevents the alert buzzer from sounding continuously at night or when the operator is not present.

□ Important!

Always consult your network administrator before setting the IP address, subnet mask, and gateway of the printer.

Key operation

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(Menu 11: CR Maintenance)

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Menu 8: Job status

Displays various information on previous printout results.

Menu List

Item	Description
Status	Indicates whether printing is complete.
ToDoLength	Displays the total length of the print data (Media feed direction).
Done	Displays the length of the printed data.
Print Remain	Displays the length of data not printed.

Key operation

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Menu 9: Roll Length Manage

This menu allows you to manage the remaining length information of roll media being loaded in the printer. You can print this information on the roll media with text and a code. The next time when the roll media is loaded, the printer will read the code and manage the remaining length.

Mote Note

- In the following cases, you will not be able to select the menu other than "Roll Length" P.119. (An error message will appear)
- When the "Media Initial" menu is set to "Off". The "Media Initial" P.92
- When no media is loaded. The "Load the media into the printer" P.45
- "Print" P.118 or "Simple Print" P.118 requires at least 400 mm printable width.

 If it is less than 400 mm, you will not be able to print it. (An error message will appear)
- Printable width on the media can be adjusted by changing CR origin and side margin (left and right side margin) settings. The media Width P.92, "Origin P.93, "Side Margin P.92"

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Menu List

Underlines in the setting range are default values.

Item	Set value	Description	
Print		After cutting the print off the roll media, print a roll remaining length management information (roll media type, remaining length, date printed, roll length management code) on the roll media.	
		When the "Roll Length" menu is set to "Off", cannot be printed. TROIL Length" P.119	
Simple Print		After cutting the print off the roll media, print a roll remaining length management information (roll media type, remaining length, date printed) on the roll media. When the "Roll Length" menu is set to "Off", cannot be printed. "Roll Length" P.119	
		ローAMI 機能:1500m 2020/10/15 09:25	
Scan Scan" P.121		Scan the roll length management code printed on the roll media. If the reading fails, the "Roll Length" menu appears. Please enter manually. Trail Length P.119	

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Item	Set value	Description			
Roll Length	Off, Roll 1-3	The length of up to three roll media can be specified (Setting range: 1 m to 1500 m, changeable in 1 m increments). Once specified, the display goes to the "End Detection" menu. • "End Detection" menu			
		Select whether to pause printing when the remaining roll length counter reached zero. On (Default): Detects the presence of media. In the "On" setting, the display will go to			
		the "Print Stop" menu.Off: Does not detect the presence of media. In the "Off" setting, the "Print Stop" menu is fixed to "On" and the display will go to the "Near End" menu.			
		When set to "Off"			
		 There is a risk of printing on the platen as the printer does not detect the presence of media. Set the media length shorter than the actual length. An exclamation mark (!) appears on the panel. In the "On" setting: 			
		Print Ready Print Ready			
		PG: Low L: XX m PG: Low L!: XX m			
		"Print Stop" menu Sets how to stop printing			
		Sets how to stop printing.Off (Default): Printing pauses when the rear sensor responds.			
		On: When the remaining length counter reached zero, the printer gives "Roll Remain Error" message and pauses printing. If a roll media does not release easily from the paper core, you should select "On". In the "On" setting, the display will go to the "Near End" menu.			
		● "Near End" menu			
		Select whether to display the remaining roll length on the control panel before the counter reaches 0.			
		 Off (Default): Remaining length is not displayed. Remain **m (** can be specified between 1 to 10): "Near End" is displayed when the 			
		counter reached the length you specified.			

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Item	Set value	Description
Auto Scan	Off, On	Select whether or not the printer automatically scans the remaining length management code. Off: The printer does not automatically scans the code. On: The printer automatically scans the code. Tap (Cancel) will cancel the scanning. Note Read timing When the printer is turned on When the roll media is replaced If the "Auto Scan" is set to "On" but the printer does not read the code, check if the following settings are set to "Off" or "Auto Cut". "Media Initial" P.92, "Output Mode" P.92
Auto Print	Off, On	Select whether or not to prompt a confirmation message when you perform media cutting, asking you whether to print a remaining length management information on a roll media. Off (Default): This message is not prompted. On: The confirmation message "Print Roll's Remain?" appears after you perform media cutting. Select "Yes" or "No" and tap (Enter). Note When the "Roll Length" menu is set to "Off", the "Auto Print menu" cannot be set to "On". "Roll Length" P.119

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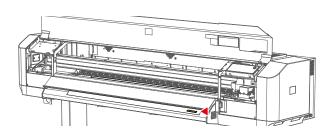
Menu 11: CR Maintenance

Menu 12: Soak Cleaning

Scan

Scan the roll length management code printed on the roll media.

- Load a roll media that the remaining length management code has been printed on into the printer.
 - **☞** "Load the media into the printer" P.45
 - **™** "Menu 9: Roll Length Manage" P.117, Print P.118
 - Make sure to load it without any warps or curls.
- Check that the code printed on the media has passed through the pressure rollers.



- 3 Access the Scan menu in the "Roll Length Manage" menu.
 - 1. Tap (Home). "Setup" will be displayed.
 - 2. Tap ▲ / ★ key to display "Roll Length Manage".
 - 3. Tap key to display "Print".
 - 4. Tap ▲/ ★ key to select "Read".

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Tap [(Enter) to start reading.

• (Cancel): Cancels the reading.

When the printer scanned the code successfully, the following settings will automatically be specified in "Roll Length":

☞ "Menu 9: Roll Length Manage" P.117

- Type of roll media
- Remaining roll length

Mote Note

• The printer may fail to scan if a remaining length management code has dirt or fold marks on it. In case failed to scan the code, manually specify the Roll Length settings based on the remaining length management information printed in text on the media.

™ "Roll Length" P.119

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Menu 10: Media Adjustment

The printer automatically runs print quality calibration and media feed adjustment.

"Print quality calibration (Adjust Print)" P.97, "Media feed adjustment" P.102

◯ Note

- To print an adjustment pattern, more than 550 mm width of printable area is required. If less than 550 mm, calibration cannot be performed. Printable width on the media can be adjusted by changing CR origin and side margin (left and right side margin) settings.
 - Media Width P.92, Origin P.93, Side Margin P.92
- If the image quality does not improve after adjusting the "Print quality calibration (Adjust Print)", "Adjust Head" may improve the image quality.
 - **™ "Adjust Head" P.108**
- Heater warming up is performed before printing the pattern. The printer control panel will display the message "Skip Heater Warm Up? No". Printing can be started during warm-up, but this is not recommended because the dot placement position may change.
 - **☞** "Start printing during warm-up" P.83
- The User Type and media thicknesses selected here are reflected in the set values.



Caution



Do not touch the media guide while printing or when the message "Warming Up" appears on the panel. There is a risk of burn injuries.

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Load media into the printer.

☞ Load the media into the printer P.45

- Make sure to load it without any warps or curls.
- Access the "Media Adjustment" menu.
 - 1. Tap (Home). "Setup" will be displayed.
 - 2. Tap ✓ key to display "Media Adjustment".
 - 3. Tap > key to display "User Type: Type**".
- 3 Tap ▲ / ★ key to select any user type.
- Tap 🔃 (Enter) to enter the media thickness.
 - ▲/ ★ Key: Enter a value
 - (Enter): Confirm the setting
 - Tap 🔃 (Enter) to start automatic adjustment.
 - (Cancel): Cancels printing.
 - If the adjustment is successful, "AutoAdjust Succeeded OK -> Enter" is displayed.
 - If the adjustment fails, the message "AutoAdjust Failed OK -> Enter" is displayed. Please redo it manually (Print quality calibration (Adjust Print) P.97 and Media feed adjustment P.102). The adjustment value for the pattern which has been failed to calibrate or has not been calibrated yet will not be saved in the printer.

◯ Note

- If performing the auto calibration does not improve print quality (banding or graininess appears), run an "Auto" calibration again or perform "Custom" calibration.
- The initial values for User Type and media thickness reflect the currently selected User Type values.
- 6 Tap 🗾 (Enter) to exit automatic adjustment.

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Menu 11: CR Maintenance

Move the carriage and perform maintenance on the printer. Use this menu to perform the following maintenance:

- "Daily maintenance at the end of work" P.143
- "Clean the UV-LED unit" P.145
- "Clean the parts around the print head" P.149
- "Clean the cleaning wiper and the parts around the capping unit" P.150
- "Clean the color sensor" P.155
- "Replace the wiper pad" P.164
- "Replace the Cutter" P.167
- "Replace the UV-LED unit filter" P.170
- "Replace the UV-LED unit glass" P.172
- "Replace the flushing box" P.174
- 1 Access the "CR Maintenance" menu.
 - 1. Tap (Home). "Setup" will be displayed.
 - 2. Tap ✓ key to display "CR Maintenance".
 - 3. Tap key to display "Start".
- Tap (Enter) to start maintenance.
 - "End -> Enter" will be displayed.
 - The carriage moves to the maintenance space and the wipers move to the maintenance position.

Daily Maintenance
Start -> Enter

- Open the covers and perform a maintenance.

 - The message "Close Cover" will appear if the cover is open for more than ten minutes.

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- Close all covers when maintenance is complete.
- Tap 🗗 (Enter) to exit maintenance.

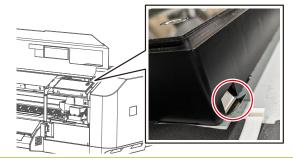


After 30 seconds of closing the cover, maintenance is automatically terminated.



Important!

When you open the front cover, there is the metal part popped out on the upper right of the printer control panel. Do not touch it to avoid injury.



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Menu 12: Soak Cleaning

Soak the print head in the maintenance cleaner filled in the head cap to clean dirt on the surface of nozzle.

Prepare the necessary items for maintenance.

Preparations for maintenance P.133

Items Required:

- Polyethylene gloves, Rubber gloves, Protective goggles, Protective mask
- Designated maintenance cleaner, Dropper
- Wear protective equipment.

☞ "Wearing protective equipment" P.134

- Access the "Soak Cleaning" menu.
 - 1. Tap (Home). "Setup" will be displayed.
 - 2. Tap ▲ / ★ key to display "Soak Cleaning".
 - 3. Tap key to display "Start".
- 4 Tap 🔃 (Enter) to start maintenance.
 - The carriage moves to the maintenance space on the left side.
 - "Pour Cleaning Fluid End -> Enter" appears.

Mote Note

Soak cleaning cannot be performed when the printer is in the following conditions.

- Front cover or maintenance cover is open.
- Waste ink tank is full.
- Ink bag case is removed.
- Smart chip card is removed.
- A non-genuine smart chip card is inserted.



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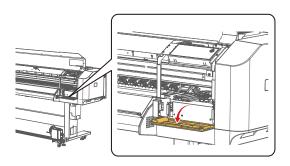
Menu 9: Roll Length Manage

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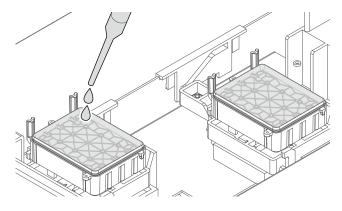
Menu 11: CR Maintenance

Menu 12: Soak Cleaning

- Open the front cover.
- 6 Open the right side maintenance cover.



- 7 Fill the head cap with maintenance cleaner.
 - Use a dropper to fill it with maintenance cleaner until the cleaner almost overflows the cap.



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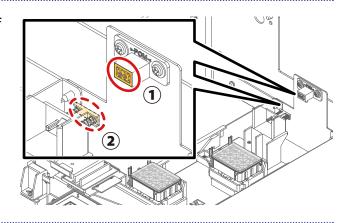
Menu 9: Roll Length Manage

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Using a paper towel, wipe off any ink on the surface of the air valve (parts ① and ②).



- Close the maintenance cover and then the front cover.
- 10 Tap 🗾 (Enter).
 - The countdown begins (count by minutes). When the timer reaches 1 minute left, it will count by seconds.
 - Once soaking time is over, the printer automatically performs suction and then cleaning. (or suction only if cleaning cannot be performed)

End the soak cleaning.

• Wipe the maintenance cleaner on the dropper with a paper towel.

□ Important!

• Please keep the bottle lid of the designated maintenance cleaner tightly closed.



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About Maintenance

To maintain your printer performance, please conduct the following maintenance.

■ When to perform maintenance

Timing	Item
Before daily operation	"Nozzle check and head cleaning" P.61
After daily operation	"Daily maintenance at the end of work" P.143
Once every two days (before printer operation)	"Fill maintenance cleaner (For flushing box)" P.159
When needed	"Replace the ink bag" P.136
	"Emptying waste ink tank" P.140
	 "Clean the parts around the print head" P.149 When clogged nozzles or blurred or missing prints do not disappear after head cleaning When printing is partially stained.
	 Cleaning Wipers When clogged nozzles or blurred or missing prints do not disappear after head cleaning "Clean the cleaning wiper and the parts around the capping unit" P.150
	 "Menu 12: Soak Cleaning" P.127 When clogged nozzles or blurred or missing prints do not disappear after head cleaning
	 "Clean the color sensor" P.155 When auto adjustment fails repeatedly in "Print quality calibration (Adjust Print)" and "Adjust Head".
	"Replace the wiper pad" P.164 • When ink has accumulated on absorbent material.
	"Replace the Cutter" P.167When the media cannot be cut straight or fluffing occurs at the cut section.
	"Replace the UV-LED unit glass" P.172 • When the glass is defective or stains are not removed.
	"Replace the flushing box" P.174 • When the ink accumulated on the flushing box.

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Once a week	"Menu 12: Soak Cleaning" P.127
Once a month	"Replace the UV-LED unit filter" P.170 • If the filter is significantly dirty, do not wait one month before replacing.
	"Cleaning inside the printer" P.157 • If it is significantly dirty, do not wait one month before cleaning.
Once a year	"Cleaning Wiper" P.161
When not used for a week or more	"Nozzle check and head cleaning" P.154
When not used for a long period	"Long-term storage" P.179

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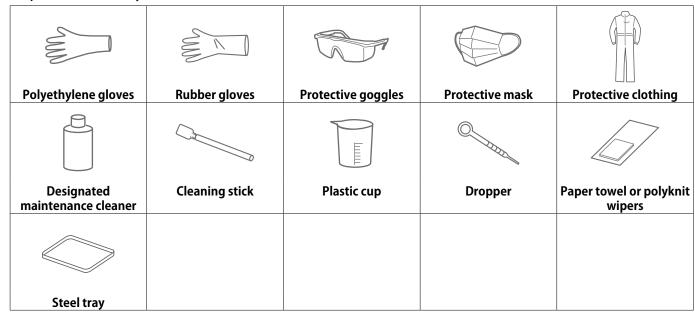
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Preparations for maintenance

Prepare the necessary items for maintenance.



□ Important!

- Please use the paper towels supplied with the product or the optional poly-knit wiper.
- Do not use tissue paper. Lint or flakes on tissue may cause the print head to malfunction.
- Do not use non-designated maintenance cleaner.
- To purchase the optional accessories such as designated maintenance cleaner, contact your local MUTOH dealer.

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Wearing protective equipment

Wear protective equipment such as supplied gloves (or solvent-resistant gloves) and protective goggles, especially when performing the following maintenance.

- "Checking ink and replacing ink bag" P.135
- "Emptying waste ink tank" P.140
- "Daily maintenance at the end of work" P.143
- "Menu 12: Soak Cleaning" P.127
- "Clean the color sensor" P.155
- "Cleaning inside the printer" P.157
- "Fill maintenance cleaner (For flushing box)" P.159
- "Cleaning Wiper" P.161
- "Replace the wiper pad" P.164
- "Replace the UV-LED unit filter" P.170
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- "Replace the flushing box" P.174



Make sure to read the following sections before this task:

THandling" P.10

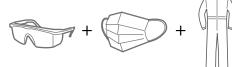
"Ink and waste fluid" P.15

Wearing the supplied gloves

Wear the rubber gloves over the polyethylene gloves (pink).







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Checking ink and replacing ink bag

Checking ink level

- Access the "System Info." menu.
 - 1. Tap (Home). "Setup" will be displayed.
 - 2. Tap ▲/ ★ key to display the "System Info.".
 - 3. Tap key to display "Version".
- Access the "Ink Status" menu.
 - 1. Tap key to display "Version".
 - 2. Tap ▲ / ★ key to display "Ink Status".
 - 3. Tap (Enter).
- The ink level of each ink bag is displayed in percentage (0 % to 100 %).

KCMY: 10

100/90/90/80

C: Cyan, M: Magenta, Y: Yellow, K: Black



If the ink level is blinking at 10%, smart chip recovery is being performed for the corresponding ink bag.

☞ "Smartchip Recovery" P.193

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When an ink bag is nearing replacement

When the ink level is low, the status light on the printer control panel blinks in red with beep sound.



Tap (Enter).

- The beep sound stops.
- In this figure, the black ink is nearing replacement.

[K] S/C Ink Low
PG:Low W:1625 mm

2

Replace with a new ink bag.

"Replace the ink bag" P.136

Replace the ink bag

When an ink bag runs out of ink, the status light on the printer control panel turns on red with beep sound. "Ink End" or "S/C Ink End" will appear on the printer control panel. Promptly replace it with a new ink bag and smartchip card. If ink is not replaced for a certain period of time, printing will pause. In this case, replace the ink bag with a new one and printing will resume.



Caution



Wear the protective gloves, glasses and masks and avoid contact with your eyes or skin. If in eyes or on skin, immediately flush with water. If left untreated, it may cause redness and mild irritation of the eyes. If irritation is present, seek medical advice and attention immediately.

□ Important!

- If the printer is powered off, do not replace with a new ink bag. The printer may not be able to detect ink level correctly.
- When moving an ink bag from cold place to warm place, rest it in room temperature at least 3 hours before use.
- If you do not have a new ink bag for replacement, leave the old one installed. Leaving the printer without ink bags installed could cause nozzle clogging.

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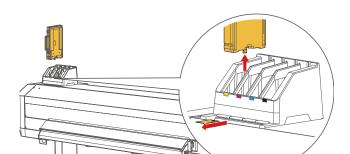
Moving or transporting the printer

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Remove the ink bag case

- Tap 【】(Enter).
 - The beep sound stops.
 - In this figure, the black ink needs to be replaced.

Remove the ink bag case of the ink bag to be replaced and the corresponding smartchip card.

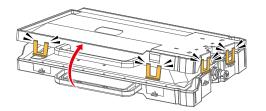


[KCMY] Ink End

Unlock four latches and open the ink bag case.

□ Important!

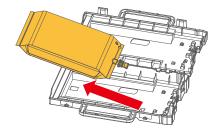
Do not apply excessive force when unlocking the latch. This will cause damage to the latch.



Remove the empty ink bag.



Put the empty ink bag in a plastic bag and dispose of it according to the local regulations.



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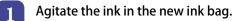
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Replace the consumable parts

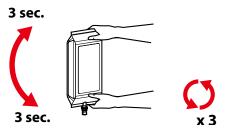
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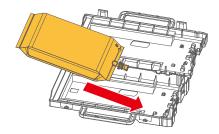
Load a new ink bag



- Hold the ink bag with the ink outlet facing up and wait for three seconds.
- Invert it with the ink outlet facing down and wait for three seconds.
- Repeat this three times.



Put the ink bag into the ink bag case.



Close the ink bag case.

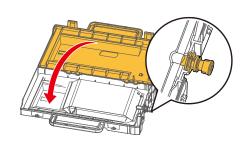
| Important!

Make sure that the spout of the ink bag is properly fitted into the groove in the case. If not fitted, the printer cannot correctly detect the ink bag.

Close the latches (x4) of the case properly.



Check that all the latches (x4) are closed. If not, it may cause ink spillage.





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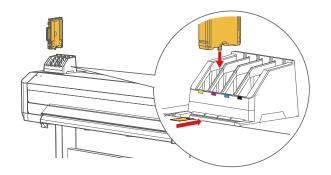
Moving or transporting the printer

Long-term storage



Insert the ink bag cases and smart chip cards into each slot.

- Make sure to match the colored label on the ink slot and the colored label on the ink bag.
- Face the latch side towards you and insert the case into the slot.
- Make sure that they are fully inserted.



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Emptying waste ink tank

In the following cases, drain waste fluids into a container to empty the waste ink tank:

- When the waste ink tank is more than half full.
- When the message "Empty Waste Ink Tank then Tap Enter" appears. (P.188).
- When the message "Full WastelnkTank" appears. (P.191)



Warning



- Store waste fluids in a cool, dark place and avoid direct sunlight.
- Keep away from fire and heat.
- Use a HDPE container with light blocking properties to store waste fluid.



- When storing waste fluid for a long time, slightly loosen the cap on the container to allow air. Do not tightly close it.
- Do not mix waste fluid with any other chemical substances, not even in small amounts. When mixed with other chemicals (e.g. oxidants), heating may occur.



Caution



Skin or eye contact with 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 or waste fluid from contacting with
your eyes or skin.



Prepare a container to collect waste fluid.

| Important!

The capacity of the waste ink tank is 2,000 ml. Make sure to prepare a container that has enough capacity to collect waste fluid.

2

Cover the floor under the waste ink tank with waste paper or cloth.

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Wear protective equipment.

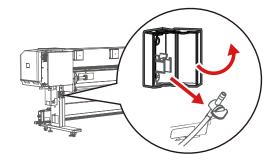
Treparations for maintenance P.133

- 1. Wear rubber gloves over polyethylene gloves.
- 2. Wear protective goggles.





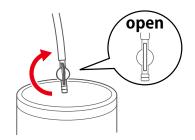
Open the cover of the waste ink valve case, and then take the drain tube valve out from the case.



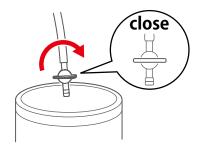
Put the tip of the drain tube valve in the empty container and open the valve to drain waste fluid from the waste ink tank.



Waste fluid may splash while draining from the waste ink tank. Make sure to put the tip of the drain tube valve in the empty container and start draining.



Once you finish emptying the tank, close the drain tube valve firmly.



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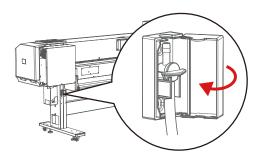
Printer maintenance

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- Use a dry cloth to clean the tip of the valve.
- Hook the drain tube valve on the clamp of the waste ink valve case, then close the cover.



O Dispose of the waste fluids as industrial waste.



Warning



- Waste fluids fall under the category of waste oil (waste ink) in industrial waste. 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 printer is harmful to aquatic organisms. Do not allow it to reach sewage or natural water systems.

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Daily maintenance at the end of work

Printers require daily maintenance. Follow these steps to perform a daily maintenance when you are done printing for the day



Make sure to read the following sections before this task:

THandling" P.10

"Ink and waste fluid" P.15

| Important!

Make sure to perform daily maintenance once a day. Failure to perform maintenance may result in poor image quality or malfunction.

Preparations for maintenance P.133

- 1. Clean the UV-LED unit P.145
- 2. Moisten the surface of print head nozzles P.147
 - 3. Clean the parts around the print head P.149
- 4. Clean the cleaning wiper and the parts around the capping unit P.150
 - 5. Fill maintenance cleaner P.152
 - 6. End the maintenance P.153

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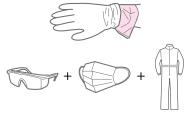
Long-term storage

Preparation



Wear protective equipment.

- **"Preparations for maintenance" P.133**
- 1. Wear rubber gloves over polyethylene gloves.
- 2. Wear protective equipment such as protective goggles, protective masks, protective clothing, etc.



2

Put the printer into CR maintenance state (or turn off the printer).

™ "Menu 11: CR Maintenance" P.125

Turn off the printer" P.44

Procedure



Caution





The UV-LED lamp may get hot after printing. Allow the lamp to cool down for at least 10 minutes after printing and then start this task.

◯ Note

Standard cleaning time is within 5 minutes. If more than 10 minutes have passed since the cover was opened the message "Close the Cover" will appear with beep sound.

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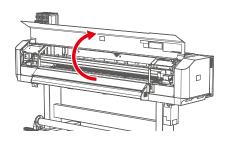
Replace the consumable parts

Moving or transporting the printer

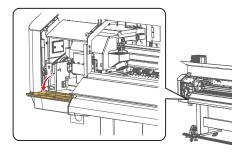
Long-term storage

1. Clean the UV-LED unit

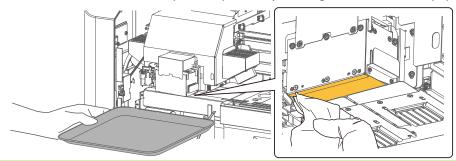
Open the front cover.



Open the left maintenance cover.



Look at the bottom surface of the UV-LED lamp and wipe off any sticking ink or dust with a paper towel.



Mote Note

If it is hard to see, use a stainless steel tray to look at the bottom of the UV-LED lamp.

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Next, moisten the nozzle surface of the print head.

2. Moisten the surface of print head nozzles" P.147

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2. Moisten the surface of print head nozzles

Important!

- Be sure to follow the cleaning procedure as instructed. In particular, do not moisten the nozzle surface with the same cleaning stick that is used to clean the print head area, cleaning wiper, or capping unit. This may cause print head failure.
- Be sure to use a new cleaning stick and the designated maintenance cleaner. Use of non-designated one may cause the print head failure.
- Do not touch the tip of a cleaning stick with fingers. If skin oil gets on the stick, it may cause the print head to malfunction.
- Put a new cleaning stick in the plastic cup.
 Use the dropper to drop the designated maintenance cleaner onto the tip of the cleaning stick to moisten (Use about 5 ml).



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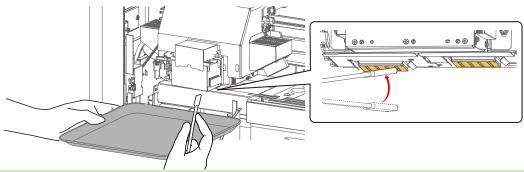
Printer maintenance

Replace the consumable parts

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Long-term storage

- Look at the bottom surface of the carriage and moisten the nozzle surface of the print head with the cleaning stick dampened with the maintenance cleaner.
 - Lightly touch with the cleaning stick.
 - Repeat several times until the entire surface of the nozzle is moistened.



Important!

- Never rub the surface of the nozzles. This may cause print head failure.
- When the entire nozzle surface has been moistened, you can stop it. Do not repeat more than necessary.



If it is hard to see, use a stainless steel tray to look at the bottom of the head.

Next, clean the parts around the print head.

☞ "3. Clean the parts around the print head" P.149

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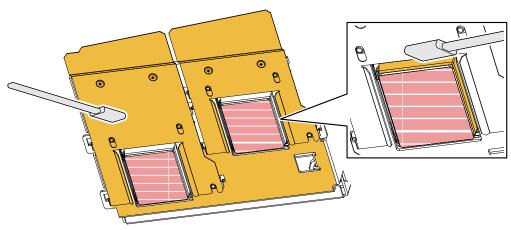
3. Clean the parts around the print head

1

Clean the bottom surface of the carriage and the side surface of the print heads.

: Cleaning area.

: Never touch the nozzle surface.



📢 Important !

If the maintenance cleaner gets on the printer, wipe it off with a paper towel.



If it is hard to see, use a stainless steel tray to look at the bottom of the head.

2

Next, clean the cleaning wiper and the parts around the capping unit.

 $\ensuremath{\mathfrak{P}}$ "4. Clean the cleaning wiper and the parts around the capping unit" P.150

| Important!

• If the cleaning stick becomes dirty during cleaning, put the maintenance cleaner in the plastic cup and submerge the foam tip of the stick into the maintenance cleaner in the cup to clean it. If the dirt does not get off, replace it with a new one.

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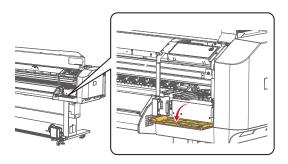
Replace the consumable parts

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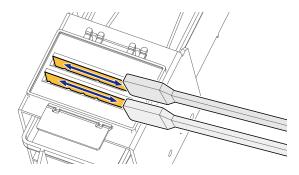
Long-term storage

4. Clean the cleaning wiper and the parts around the capping unit

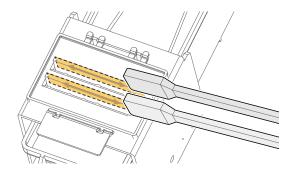
Open the right side maintenance cover.



Use the cleaning stick to wipe off any dirt on the front side of the cleaning wiper.



Wipe off the dirt on the back side of the cleaning wiper.



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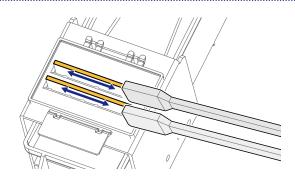
Printer maintenance

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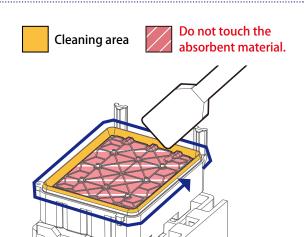
Moving or transporting the printer

Long-term storage

Wipe off the dirt on the top of the cleaning wiper.



Use the cleaning stick to clean the parts around the capping unit to wipe off ink and dust.



6

Next, fill maintenance cleaner.

☞ "5. Fill maintenance cleaner" P.152

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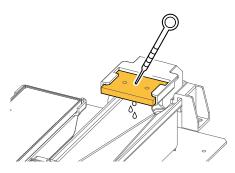
Moving or transporting the printer

Long-term storage

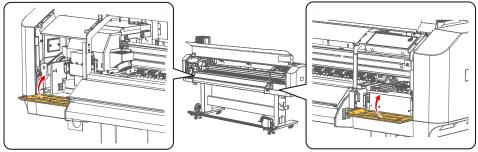
5. Fill maintenance cleaner

1 Fill the wiper pad with maintenance cleaner.

• Drop maintenance cleaner until the entire pad is wet and dripping in the tray under the pad (Use about 10 ml).



Close the left and right maintenance covers.



- Close the front cover.
- Next, end the maintenance.

 "6. End the maintenance" P.153

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6. End the maintenance

Tap (Enter) to exit maintenance.

"Menu 11: CR Maintenance" P.125

Turn off the printer" P.44

• The carriage moves to the CR maintenance position on the right side.



• After 30 seconds of closing the cover, maintenance is automatically terminated.

· When performed from "CR Maintenance"

CR Maintenance End -> Enter

• When performed from "Turn off the printer"



- 2
 - Dispose of cleaning stick.
 - Wipe the maintenance cleaner on the dropper with a paper towel.
 - Dispose of the maintenance cleaner in the plastic cup and wipe the plastic cup clean with a paper towel.
 - Wipe the tray with paper towels.

Important!

- Do not reuse the cleaning stick. Dust and other particles may adhere to the print head, causing it to malfunction.
- Please keep the bottle lid of the designated maintenance cleaner tightly closed.

◯ Note

• Used cleaning stick and the maintenance cleaner left in the plastic cup are industrial waste. Dispose of them in accordance with the local regulations.

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Printer maintenance

Nozzle check and head cleaning

If the nozzles are clogged after a nozzle check, head cleaning should be performed.

Performing Nozzle Check" P.61

Run a nozzle check print to see if the print head fires ink properly.

• ® "Performing Head cleaning" P.63

If the nozzle is clogged, perform a head cleaning. The product has several cleaning modes. Select an appropriate mode depending on the result of the nozzle check print.

Mote Note

If nozzle clogging persists after repeated Normal cleaning attempts, try the following solutions for a reference.

- 1. Perform a Long cleaning. (If the problem persists, move to the next one)
- 2. Clean the following parts. (If the problem persists, move to the next one)
- 3 "4. Clean the cleaning wiper and the parts around the capping unit" P.150
- 3. Clean the parts around the print head" P.149
- 3. Perform a Little Charge cleaning. (If the problem still persists, move to the next one)
- 4. Perform a soak cleaning.
- @ "Menu 12: Soak Cleaning" P.127

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Clean the color sensor

(Important /

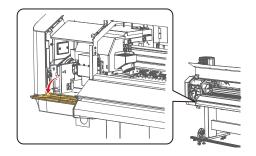
- Do not push hard on the color sensor glass with cleaning stick. This will cause damage to the glass.
- Do not reuse the cleaning stick. This will cause dust to adhere to the sensor, leading to malfunction.
- The standard maintenance time is about five minutes. If it takes longer, the print head will get dried, causing the damage.
- Prepare the necessary items for maintenance.

Preparations for maintenance P.133

Items Required:

- Polyethylene gloves, Rubber gloves, Protective goggles, Protective mask
- Cleaning stick
- Ethanol (more than 50 % ethanol)
- Wear protective equipment.

 "Wearing protective equipment" P.134
- Put the printer into "CR Maintenance" state.
 - **™ "Menu 11: CR Maintenance" P.125**
- 4 Open the front cover.
- Open the left maintenance cover.



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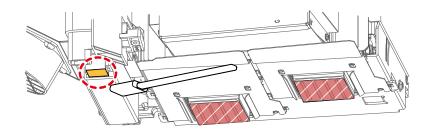
Printer maintenance

Replace the consumable parts

Moving or transporting the printer

Long-term storage

Gently clean the glass surface of the color sensor on the bottom of the carriage with a cleaning stick dampened in a small amount of ethanol to remove ink and dust.







- Close the maintenance cover and then the front cover.
- Tap (Enter) to exit maintenance.

Mote Note

Put the used cleaning stick in a cleaning bag and dispose of it according to the local regulations.

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Cleaning inside the printer



Caution



When cleaning the inside of the printer, be sure to turn off the power and unplug the power plug from the power outlet.

📢 Important !

Immediately after printing is finished, the printer heater gets hot.

Touch the platen or media guide, and if it is hot, wait until it is cool down.

Prepare the necessary items for maintenance.

Preparations for maintenance P.133

Items Required:

- Soft brush
- Paper towel or soft cloth
- Ethanol (more than 50 % ethanol)
- Glove
- Remove the media.
- Make sure the printer is turned off.
- 4 Open the front cover.

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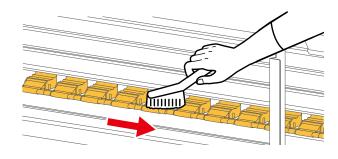
Moving or transporting the printer

Long-term storage

Use a soft brush to clean the dust off the pressure rollers.



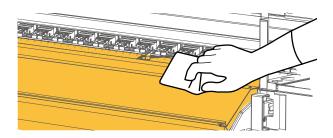
Do not use air duster to clean the dust inside the printer. This will cause dust to accumulate on the moving parts, leading to damage or noise.



Using a paper towel or soft cloth dampened with in a small amount of ethanol, clean the platen, media guide and edge holders to remove dust.



Wear gloves when cleaning.



7 Close the front cover.

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Fill maintenance cleaner (For flushing box)



Caution



Wear the protective gloves, glasses and masks and avoid contact with your eyes or skin. If in eyes or on skin, immediately flush with water. If left untreated, it may cause redness and mild irritation of the eyes. If irritation is present, seek medical advice and attention immediately.

📢 Important!

- Frequency of filling maintenance cleaner is once every two days (before printer operation).
- The flushing box runs out of maintenance cleaner quickly in the high temperature environment.

 We recommend you to check the flushing box before daily printer operation. You must fill maintenance cleaner into the flushing box when:
- The block is not immersed in liquid.
- The block got clogged.
- Prepare the necessary items for maintenance.

☞ "Preparations for maintenance" P.133

Items Required:

- Polyethylene gloves, Rubber gloves, Protective goggles, Protective mask
- Designated maintenance cleaner, Plastic cup
- Wear protective equipment.

☞ "Wearing protective equipment" P.134

- Put the printer into "CR Maintenance" state.

 "Menu 11: CR Maintenance" P.125
- 4 Open the front cover.

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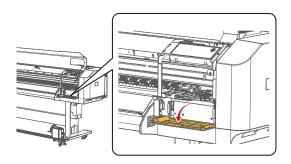
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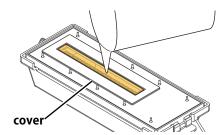
Open the right side maintenance cover.



Fill about 20 ml of maintenance cleaner into the flushing box.



- The amount to be used varies depending on the amount of maintenance cleaner remaining in the flushing box. Be careful not to overflow.
- If the maintenance cleaner is spilled on the cover of the flushing box, clean it with a paper towel. Any remaining liquid may be splashed by a fan.



- Close the maintenance cover and then the front cover.
- 8 Tap (Enter) to exit maintenance.

☞ "6. End the maintenance" P.153

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Replace the consumable parts

Cleaning Wiper

The cleaning wiper is a necessary component for maintaining consistent printing quality. Please replace consumables regularly.



Caution



Wear the protective gloves, glasses and masks and avoid contact with your eyes or skin. If in eyes or on skin, immediately flush with water. If left untreated, it may cause redness and mild irritation of the eyes. If irritation is present, seek medical advice and attention immediately.

1

Prepare the necessary items for maintenance.

Preparations for maintenance P.133

Items Required:

- Polyethylene gloves, Rubber gloves, Protective goggles, Protective mask
- Replacement cleaning wipers
- · Waste paper (paper that ink does not bleed through)
- Wear protective equipment.
 - **Wearing protective equipment** P.134
- Put the printer into "CR Maintenance" state.

 "Menu 11: CR Maintenance" P.125
- 4 Open the front cover.

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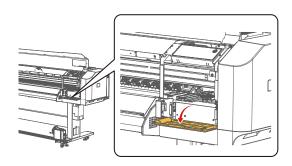
Printer maintenance

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Open the right side maintenance cover.



Cover the platen with the waste paper.

(Important!

Ink may drip from the cleaning wiper. We recommend covering the floor with paper as well.

7 Remove the cleaning wipers.

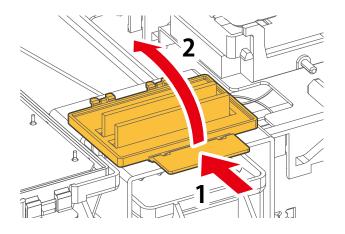
- 1. Push the tab of the cleaning wiper to the back to release the hook in the front.
- 2. Remove the cleaning wiper by lifting up the tab of the cleaning wiper.

□ Important!

- Wear gloves when cleaning.
- When removing the cleaning wiper, be careful of ink dripping.



Put the used pad in a plastic bag and dispose of it according to the local regulations.



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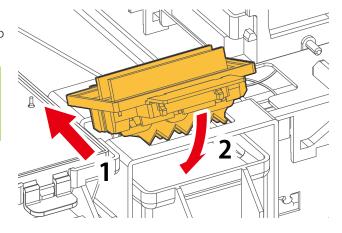
Long-term storage

8 Install a new cleaning wiper.

- 1. Insert the back of the cleaning wiper.
- 2. Push in the tab of the cleaning wiper until it clicks into place.

(Important !

Do not to touch the rubber part of the cleaning wiper with bare hands. Sebum can cause print head failure.



- Olose the maintenance cover and then the front cover.
- 10 Tap 🔃 (Enter) to exit maintenance.

6. End the maintenance P.153

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Replace the wiper pad

Wiper pad is used to keep cleaning wipers clean. Ink sticking to the wiper can cause poor print quality. Replace it as needed.



Caution



Wear the protective gloves, glasses and masks and avoid contact with your eyes or skin. If in eyes or on skin, immediately flush with water. If left untreated, it may cause redness and mild irritation of the eyes. If irritation is present, seek medical advice and attention immediately.

Prepare the necessary items for maintenance.

Preparations for maintenance P.133

Items Required:

- Polyethylene gloves, Rubber gloves, Protective goggles, Protective mask
- Designated maintenance cleaner, Dropper
- · Replacement wiper pad
- Wear protective equipment.

™ "Wearing protective equipment" P.134

Put the printer into "CR Maintenance" state.

™ "Menu 11: CR Maintenance" P.125

4 Open the front cover.

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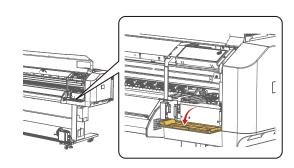
Printer maintenance

Replace the consumable parts

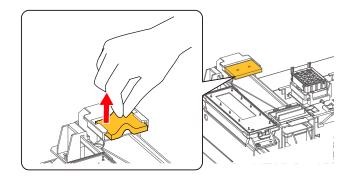
Moving or transporting the printer

Long-term storage

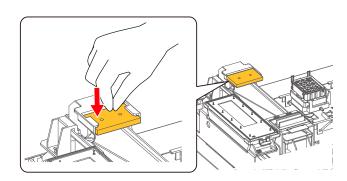
Open the right side maintenance cover.



6 Pinch the wiper pad and lift it up to remove it.



Insert the wiper pad into the pad slot from the top.



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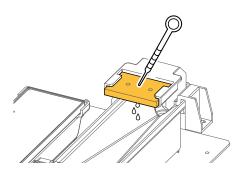
Replace the consumable parts

Moving or transporting the printer

Long-term storage

8 Fill the wiper pad with maintenance cleaner.

• Drop maintenance cleaner until the entire pad is wet and dripping in the tray under the pad (Use about 10 ml).



- Close the maintenance cover and then the front cover.
- Tap [] (Enter) to exit maintenance.

☞ "6. End the maintenance" P.153

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Replace the Cutter



Caution

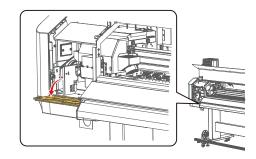


- Do not push the tab on the cutter holder too hard or release suddenly. There is a spring under the cutter so that the cutter may jump out from the holder.
- Do not touch the cutter blade. There is a risk of injury.
- Prepare the necessary items for maintenance.

Preparations for maintenance P.133

Items Required:

- Cutter replacement blade
- Put the printer into "CR Maintenance" state.
 - **™ "Menu 11: CR Maintenance" P.125**
- 3 Open the front cover.
- Open the left maintenance cover.



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Replace the consumable parts

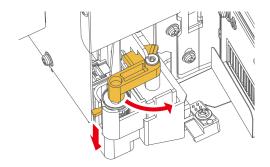
Moving or transporting the printer

Long-term storage

While lightly pushing the tab on the cutter, rotate the cutter cap in the direction shown in the illustration.



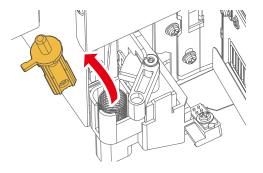
Do not push down the cutter cap. It may damage the part.



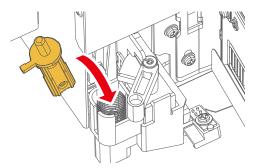
Remove the cutter.



Put the used cutter in a plastic bag and dispose of it according to the local regulations.



7 Attach a new cutter.



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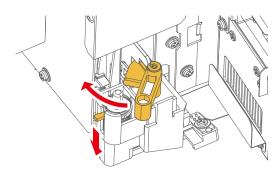
Printer maintenance

Replace the consumable parts

Moving or transporting the printer

Long-term storage

While lightly pushing the tab on the cutter, put the cutter cap back to its original position.



- Close the maintenance cover and then the front cover.
- Tap (Enter) to exit maintenance.

6. End the maintenance P.153

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Long-term storage

Replace the UV-LED unit filter

The UV-LED lamp filter protects the lamp from ink mist. Using a dirty filter will cause damage to the lamp. Please replace consumables regularly.



Caution



Wear the protective gloves, glasses and masks and avoid contact with your eyes or skin. If in eyes or on skin, immediately flush with water. If left untreated, it may cause redness and mild irritation of the eyes. If irritation is present, seek medical advice and attention immediately.



The UV-LED lamp may get hot after printing. Allow the lamp to cool down for at least 10 minutes after printing and then start this task.

Prepare the necessary items for maintenance.

Preparations for maintenance P.133

Items Required:

- Polyethylene gloves, Rubber gloves, Protective goggles, Protective mask
- · Replacement Filters
- Wear protective equipment.
 - **☞** "Wearing protective equipment" P.134
- Put the printer into "CR Maintenance" state.

 "Menu 11: CR Maintenance" P.125
- Open the front cover.

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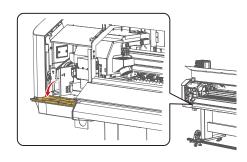
Printer maintenance

Replace the consumable parts

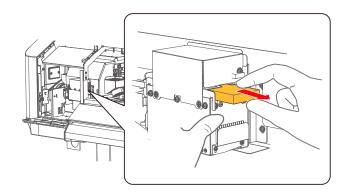
Moving or transporting the printer

Long-term storage

Open the left maintenance cover.



6 While holding the UV-LED unit, remove the filter.



- Replace with a new filter.
 - Insert the filter firmly all the way in.
- R Close the maintenance cover and then the front cover.
- Tap [] (Enter) to exit maintenance.

6. End the maintenance P.153

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Long-term storage

Replace the UV-LED unit glass

The glass of the UV-LED unit is a component to protect the UV-LED unit. Using the printer with dirty or broken glass will cause damage to the lamp or insufficient ink curing. Please replace the glass as needed.



Caution



Wear the protective gloves, glasses and masks and avoid contact with your eyes or skin. If in eyes or on skin, immediately flush with water. If left untreated, it may cause redness and mild irritation of the eyes. If irritation is present, seek medical advice and attention immediately.



The UV-LED lamp may get hot after printing. Allow the lamp to cool down for at least 10 minutes after printing and then start this task.

Prepare the necessary items for maintenance.

Preparations for maintenance P.133

Items Required:

- Polyethylene gloves, Rubber gloves, Protective goggles, Protective mask
- Replacement Glass
- Wear protective equipment.

☞ "Wearing protective equipment" P.134

Put the printer into "CR Maintenance" state.

™ "Menu 11: CR Maintenance" P.125

4 Open the front cover.

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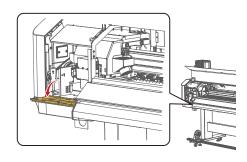
Printer maintenance

Replace the consumable parts

Moving or transporting the printer

Long-term storage

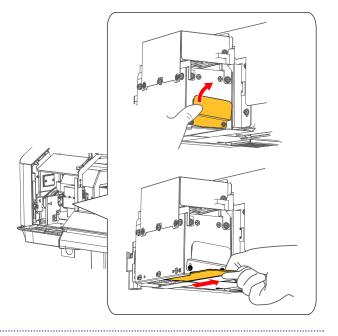
Open the left maintenance cover.



- 6 Check the glass and replace if there are defects or cracks.
 - 1. Slide the exhaust cover up using the screw on the right side of the exhaust cover as a fulcrum.
 - 2. Slide the glass attached on the bottom of the UV-LED unit to the right to remove it.
 - 3. Check for cracks, chips, or ink on the glass.
 - 4. Attach a new glass to the UV-LED unit. Insert the glass firmly all the way to the back and lower the exhaust cover as before.

| Important!

Make sure that the glass is attached to the UV-LED unit and the exhaust cover is put back in place. Using your printer without them will cause damage to the unit.



- Close the maintenance cover and then the front cover.
- 8 Tap 🔃 (Enter) to exit maintenance.

6. End the maintenance P.153

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Long-term storage

Replace the flushing box



Caution



Wear the protective gloves, glasses and masks and avoid contact with your eyes or skin. If in eyes or on skin, immediately flush with water. If left untreated, it may cause redness and mild irritation of the eyes. If irritation is present, seek medical advice and attention immediately.

Prepare the necessary items for maintenance.

Preparations for maintenance P.133

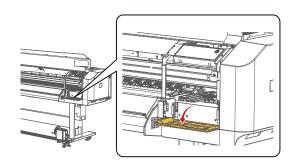
Items Required:

- Polyethylene gloves, Rubber gloves, Protective goggles, Protective mask
- Designated maintenance cleaner, Plastic cup
- Replacement flushing box
- Wear protective equipment.

 "Wearing protective equipment" P.134
- Put the printer into "CR Maintenance" state.

™ "Menu 11: CR Maintenance" P.125

- 4 Open the front cover.
- Open the right side maintenance cover.



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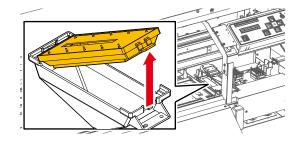
Moving or transporting the printer

Long-term storage

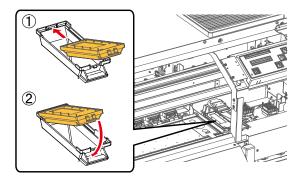
6 Lift the tabs and tilt the flushing box to drain the waste fluid.



Put the used flushing box in a plastic bag and dispose of it according to the local regulations



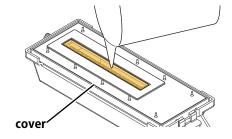
7 Install a new flushing box.



Fill 20 ml of maintenance cleaner into the flushing box.



If the maintenance cleaner is spilled on the cover of the flushing box, clean it with a paper towel to avoid splash by a fan.



- 9 Close the maintenance cover and then the front cover.
- 10 Tap 🔃 (Enter) to exit maintenance.

6. End the maintenance P.153

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Moving or transporting the printer

Transporting the printer

When transporting this product, it must be repacked in the original packaging and packaging materials as you purchased to protect the printer from vibration and shock.

📢 Important !

When transporting this product, please consult your local MUTOH dealer.

Moving the printer

This section explains how to move this product.

📢 Important!

- Before moving this printer, always empty the waste ink tank even moving short distance. Failure to do so may result in damage to the product.
- Minimum three people are required for moving this product. When moving, keep the product level. Otherwise proper operation cannot be guaranteed after moving.
- Wearing safety shoes is recommended for moving this product.

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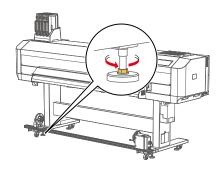
Moving or transporting the printer

Long-term storage

Preparation for moving the printer

- Turn off the power.

 "Turn off the printer" P.44
- Empty the waste ink tank.
- "Emptying waste ink tank" P.140
- 3 Disconnect all cables, including the power cord.
- Loosen the adjusters (4 places) on the stand by rotating them counterclockwise.



Move the printer.

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After moving the printer

- Select a suitable location for installation.
 - **Startup Guide**
- After moving the printer to the installation site, use the adjusters to lock the printer.
- Connect the cables including the power cord.
- Run a nozzle check to make sure all nozzles are clear.
 - **☞ "Performing Nozzle Check" P.61**
- Perform "Print quality calibration (Adjust Print)".

 "Print quality calibration (Adjust Print)" P.97

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Long-term storage

Long-term storage

When the printer is not in use for an extended period of time, perform the "Longstore" cleaning to flush ink out of the printer for storage.

TLongstore P.95

Prepare the necessary items for long-term storage.

Preparations for maintenance P.133

Items Required:

- Cleaning bag: x4
- Access the Longstore menu.
 - 1. Tap 🔝 (Home). "Setup" will be displayed.
 - 2. Tap key to display "User Type".
 - 3. Tap ▲ / ★ key to display "Longstore".
 - 4. Tap ≥ key to display "Start -> Enter".
- 3 Tap 🔃 (Enter).
 - Use ▲/ ★ key to select "Yes".

Prepare Cleaning Bag NO

Empty the waste ink tank, then tap (Enter) key.

"Emptying waste ink tank" P.140

Empty Waste Ink Tank
-> Enter

- Tap 【 (Enter).
 - Use ▲/ ★ key to select "Yes".

Empty the Tank ?

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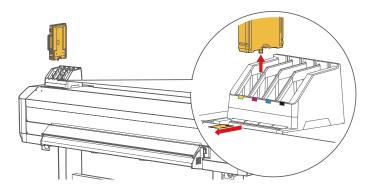
Moving or transporting the printer

Long-term storage

6

Start cleaning.

- "Remove Bags" will appear.
- 1. Remove all ink bag cases and smartchip cards.
- Once removed, the printer begins flushing ink out of the printer.



- 2. Store the ink bags with the corresponding smartchip cards.
- 3. When ink flushing is completed, "Insert Cleaning Bags" will appear.



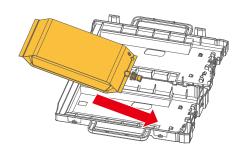
Unlock four latches and open the ink bag case.

□ Important!

Do not apply excessive force when unlocking the latch. This will cause damage to the latch.



8 Put the cleaning bag into the ink bag case.



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9

• Close the ink bag case.

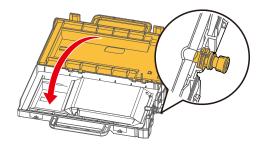
□ Important!

Make sure that the spout of the cleaning bag is properly fitted into the groove in the case. If not fitted, the printer cannot correctly detect the cleaning bag.

• Close the latches (x4) of the case properly.

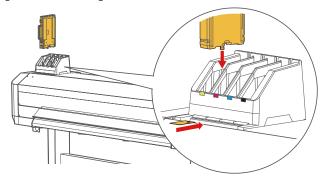


Check that all the latches (x4) are closed. If not, it may cause cleaner spillage.





- 10 Insert the ink bag cases and smart chip cards into each slot.
 - Face the latch side towards you and insert the case into the slot.
 - Make sure that they are fully inserted.
 - Once loaded, the printer begins head cleaning.



Once the printer is filled with the cleaner, "Remove Bags" will be displayed.

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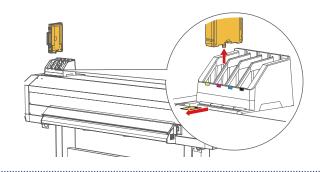
Printer maintenance

Replace the consumable parts

Moving or transporting the printer

Long-term storage

- Remove the ink bag cases and smartchip cards from the slots.
 - 1. Remove all ink bag cases and smartchip cards.
 - Once removed, it begins flushing cleaner out of the printer.
 - 2. Store the cleaning bag with the corresponding the smartchip card.
 - 3. When the cleaner has been drained, "Insert Cleaning Bag" is displayed.



- Repeat steps 10 12 several times.
 - The message on the right will be displayed.

[KCMY] Discharged

14

Turn off the printer.



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Long-term storage

Initial ink charging after Longstore cleaning



Caution



Do not attempt the following actions during ink charging:

- Turn off the printer.
- Unplug the power cord of the printer.
- Open the front cover or maintenance cover.
- Raise the pressure rollers.
- Move the printer.
- Turn on the printer.

Turn on the printer" P.43

Tap (Enter) to start ink filling.



3 Tap ☑ (Enter).



◯ Note

If you need to wash the head, tap the key to select "Wash Retry? Yes" and tap (Enter). Then follow the instructions on the printer control panel.

When cleaning is complete, "Insert Ink Bags" will be displayed. Please proceed to the next step.



Tap [4] (Enter) to start ink filling.

• "Insert Ink Bags" appears.

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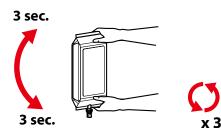
Moving or transporting the printer

Long-term storage

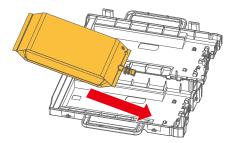
- Prepare the new ink bag and follow the instructions below to agitate ink in the ink bag.
 - Hold the ink bag with the ink outlet facing up and wait for three seconds.
 - Invert it with the ink outlet facing down and wait for three seconds.
 - · Repeat this three times.



Be sure to use a new ink bag. If a used ink bag does not have enough ink, it will run out of ink during initial ink charging and will consume more ink.



Put the ink bag into the ink bag case.



7 Close the ink bag case.

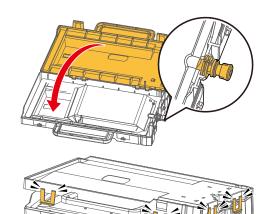
□ Important!

Make sure that the spout of the ink bag is properly fitted into the groove in the case. If not fitted, the printer cannot correctly detect the ink bag.

Close the latches (x4) of the case properly.



Check that all the latches (x4) are closed. If not, it may cause ink spillage.



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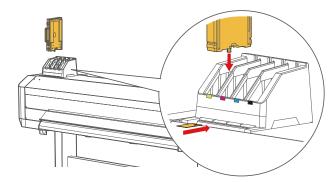
Printer maintenance

Replace the consumable parts

Moving or transporting the printer

Long-term storage

- Insert the ink bag cases and smart chip cards into each slot.
 - Make sure to match the colored label on the ink slot and the colored label on the ink bag.
 - Face the latch side towards you and insert the case into the slot.
 - Make sure that they are fully inserted.
 - Once loaded, ink charging begins.



Once the ink has been filled, the message on the right will be displayed.

No Media PG: Low

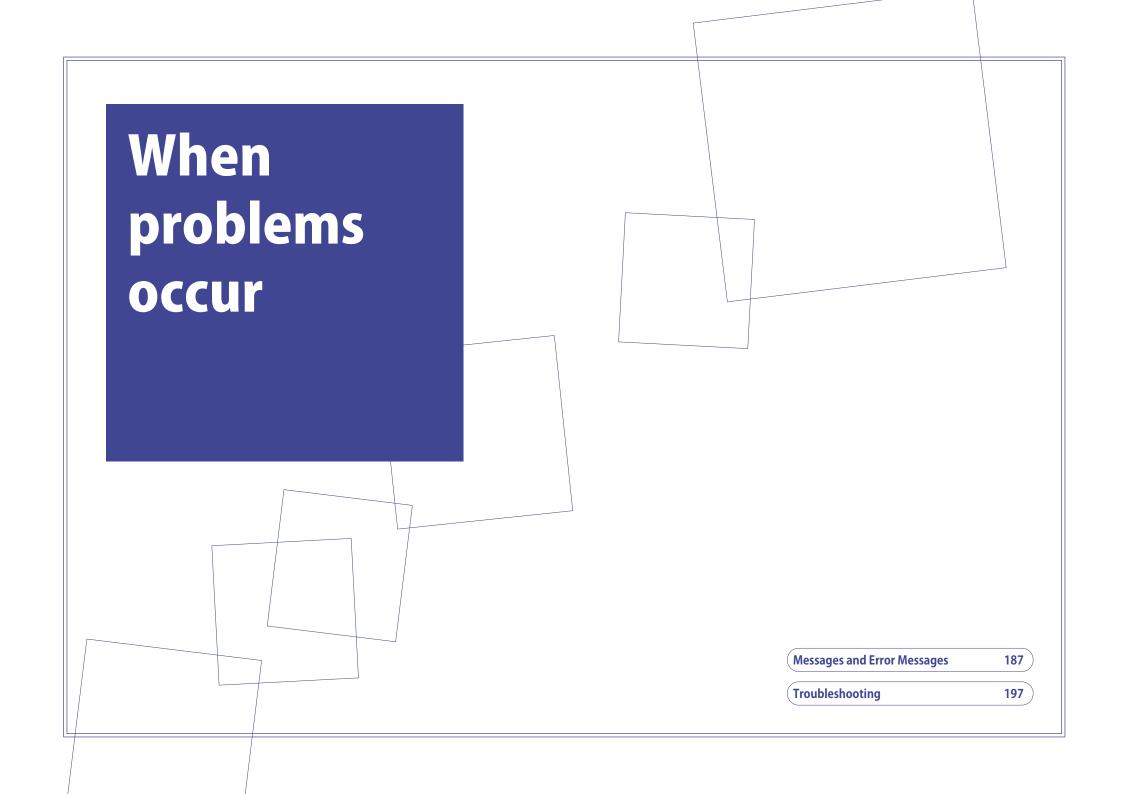
📢 Important !

If you run a nozzle check print immediately after the initial ink charging, the following symptoms may occur.

- Lines are faded.
- Patterns are partially missing.

In such cases, perform Little Charge according to "Menu 3: Cleaning" P.111 and then check the printed results.

If it does not help to solve the problem, leave the printer for at least one hour, then perform cleaning or "Little Charge" cleaning again. If the problem still persists, please contact your local MUTOH dealer.



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Messages and Error Messages

Troubleshooting

Messages and Error Messages

This section describes the messages that appear and how to deal with them.

Status messages

This section describes the messages when the printer is working properly.

Display	Description
Print Ready	Ready-to-print state (Media is loaded)
Media End	Ready-to-print state (Media is not loaded).
	™ "Load the media into the printer" P.45
Receiving	Data is being received.
Converting	Data analysis is in progress.
Printing	Printing is in progress.
Print Remain: *** m	Displays the length in meters of data that has not yet been printed for the currently printed data.
Remain Time: *** min	Displays the time remaining to print in minutes for the data currently being printed.
Roll Remain: *** m	Displays the remaining length of the currently set roll media in meters.
Pausing Print	Printing is being paused.
Cancel Print -> Enter	Tap (Cancel) to resume printing.
	Tap (Enter) to stop printing.
Canceling	Printing is being canceled.
Feeding Forward	Feeding the media forward.
Feeding Backward	Rewinding the media.
Warming Up	Heater is warming up.
Warming Up Skip -> Enter	To start printing before the heater warms up, tap 🔃 (Enter).

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Messages and Error Messages

Display	Description
Cleaning ** %	Cleaning in progress. Please wait a moment.
Ink Refill ** %	Filling ink in the printer. Please wait a moment.
SubTank Refill ** %	Filling ink in the subtank. Please wait a moment.
Washing Head	The cleaning solution is filled and drained in the initial cleaning. Or, the print head is being cleaned in the head cleaning process. Please wait a moment.
User: Type ** OK? Media Initial	Initializing media. Please wait a moment. (** indicates the selected user type)
Move To Origin Position	In the origin setting menu, the print head is moving to the print start position. Please wait a moment.
Confirm Position End -> Enter	The print head has moved to the print start position. Locate and tap (Enter).
Power Off	Turning off the printer. Please wait a moment.
Insert Ink Bags	Install the ink bag case.
Insert Cleaning Bags	Head cleaning process in progress. Install the cleaning bag case.
Remove Bags	Head cleaning or ink discharging process is in progress. Remove the ink bag case.
Empty Waste Ink Tank then Tap Enter	The waste ink tank became full during Initial Charge. Empty the waste ink tank and tap [1] (Enter).
S/C Reading	The smart chip card is being read.
*** Remote Mode *** End -> Enter	Remote panel mode is being executed by MSM or other means. Operations from the printer control panel are not possible while in remote panel mode. Tap [4] (Enter) to force the remote panel mode to exit.
Roll Remain Error	The remaining media count has reached zero (Stops printing).
Roll Near End: *** m	The remaining media count will soon reach zero. Remaining media capacity is * m.
Life Times [Pump*] OK -> Enter	The pump motor is approaching the end of its service life (Continue operation). Please contact the MUTOH product dealer where you purchased the product or the MUTOH Customer Support Desk.

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Display	Description
Life Times [CR Motor] OK -> Enter	CR motor is nearing the end of its service life (Continue operation). Please contact the MUTOH product dealer where you purchased the product or the MUTOH Customer Support Desk.
Life Times [PF Motor] OK -> Enter	PF motor is nearing the end of its service life (Continue operation). Please contact the MUTOH product dealer where you purchased the product or the MUTOH Customer Support Desk.
Life Times [UV Lamp] OK -> Enter	UV Lamp is nearing the end of its service life (Continue operation). Please contact the MUTOH product dealer where you purchased the product or the MUTOH Customer Support Desk.
PG: **** L: ***mm	When the "Roll Length" menu is set to other than "Off", the remaining roll length of the selected media is displayed. TROIL Length" P.119
PG: **** L!: ***mm	When the "End Detection" menu is set to "Off", an exclamation mark (!) appears on the panel. There is a risk of printing on the platen as the printer does not detect the presence of media. **\text{\textit{Roll Length}" P.119}

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Message type error display and how to deal with it

This section describes the message-type errors and their countermeasures.

Message-type errors appear when some failure occurs during printer operation. The printer control panel may display an error message and stop operation.

Display	Description
Cover Open	Any or all of the covers (front cover, maintenance cover right, maintenance cover left) are open. Close the cover.
Use Lever Lower pressure Rollers	The pressure rollers is raised. Lower the pressure rollers.
Load Media	No media is loaded. Load the media. "Load the media into the printer" P.45
Undefined Media	Media recognition failed (Operation is stopped). Re-load the media.
Media Slant	Media slanted (Operation is stopped). Re-load the media.
Media Cut Error	Media could not be cut (Operation is stopped). Re-load the media.
End of Roll	The media is gone (Operation is stopped). Load new media. The media into the printer P.45
Change Head Gap *** PG: **** W: ***mm	The head height specified in the print data is different from the actual head height. Change to the indicated head height. Trint head Height P.73
[****] Ink End	Ink is gone (Operation is stopped). Replace with a new ink bag. ** "Replace the ink bag" P.136
[****] No Bag	Ink bag case is not inserted (Operation is stopped). Insert the ink bag case.
[****] No S/C Card	Smart chip card is not inserted (Operation is stopped). Insert the smart chip card.
[****] S/C Ink Low	Ink is running low (Operation continues). Prepare replacement ink bagks.

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Display	Description
[****] S/C Ink End	Smart chip card has run out of remaining capacity (Operation is stopped). Replace with a new ink bag. "Replace the ink bag" P.136
[*] Chg. S/C Card	Replace with a new smart chip card.
[****] Discharged	Ink is not filled. Perform Initial Charge. "Initial ink charging after Longstore cleaning" P.183
Full WastelnkTank	The waste ink tank has become full (Operation is stopped). Immediately transfer the waste fluid to a container. "Emptying waste ink tank" P.140
[****] S/C ReadErr	Failed to read smart chip card. Reinsert the smart chip card.
[****] S/C Col.Err	The ink bag case is installed in the wrong ink slot. Install the ink bag case in the correct ink slot.
[****] S/C Ink Err	This type of ink cannot be used with this product. Please contact the MUTOH product dealer where you purchased the product or a MUTOH sales office.
[****] S/C CodeErr	An incorrect ink bag has been inserted. Please contact the MUTOH product dealer where you purchased the product or a MUTOH sales office.
[****] Broken Chip	The smart chip card is damaged. Replace with a new ink bag.
[****] Ink term warns	The ink has expired. Replace with a new ink bag.
[****] Ink Expired	The ink has expired. (Operation is stopped). Replace with a new ink bag.

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Display	Description
Cannot Operate Outside Print Area	Printing is not performed because the width of the printable area is insufficient. Printable width on the media can be adjusted by changing CR origin and side margin (left and right side margin) settings. "Media Width" P.92, "Origin" P.93, "Side Margin" P.92 The width of the required printable area varies for each function. Adjust to the appropriate width. "Menu 1: Setup menus" P.90 > "Print quality calibration (Adjust Print)" P.97 (over 550 mm) "Menu 1: Setup menus" P.90 > "Media feed adjustment" P.102 (over 400 mm) "Menu 2: Test Print" P.106 > "Adjust Head" P.108 (over 550 mm) "Menu 9: Roll Length Manage" P.117 > "Simple Print" P.118 (over 400 mm)
Cannot Operate Media Initial - Off	The "Roll Length Manage" menu cannot be displayed because the "Media Initial" menu is set to "Off". After setting the "Media Initial" menu to "Top&Width" or "Width", select the "Roll Length Manage" menu. "Media Initial" P.92, "Menu 9: Roll Length Manage" P.117
Cannot Operate No Media	No media is loaded. Load the media. "Load the media into the printer" P.45
Cannot Operate Roll Length - Off	Cannot print because the "Roll Length" is set to "Off" and cannot be printed. After setting the "Roll Length" menu, select the "Print" menu or the "Simple Print" menu. "Roll Length" P.119 "Print" P.118, "Simple Print" P.118
Cannot Operate Output Mode - Take Up	The scanner cannot be scanned because the "Output Mode" menu is set to "Take Up" and cannot be scanned. After setting the "Output Mode" menu to "Off", select the "Scan" menu. "Output Mode" P.92, "Scan" P.121
Print data Error then Tap Enter	Unable to print the job. The command specified in the RIP software or other tool is not supported. The job will be canceled.

Mote Note

- "Change Head Gap ***" can be either High, Middle or Low.
- The error display [****] indicates the ink bag that is the target of the warning.
- When "Ink End" or "No S/C Card" and "No Bag" occur at the same time, the "No Bag" indication has priority.

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Smartchip Recovery

If the following message appears on the printer control panel, a smartchip error such as broken chip may have occurred in the smartchip card.

Check that the correct smartchip card is inserted and perform smartchip recovery. This will allow you to continue to print.

To perform smartchip recovery, do one of the followings according to the message appeared.

Display	Description
[*] S/C Recog. E	The smartchip card that needs smartchip recovery may have been installed. Remove the smartchip card and insert it again. If the printer is still unable to read it, insert a new smartchip card. If "[*] Check Color OK -> Enter" is displayed after reinserting the smart chip card, follow the instructions.
[*] Check Color OK -> Enter	 The smartchip card that needs smartchip recovery may have been installed. Check that the ink color of the smartchip card inserted is correct. In case of wrong color insertion, insert a correct smartchip card. If the correct smart chip card is inserted, tap (Enter). The printer will perform smartchip recovery and will continue to print.
[*] Chg. S/C Card	The smartchip card that the smartchip recovery was performed has run out of ink. Replace with a new smart chip card.



- [*] in the error message indicates the ink bag that is subject to alert.
- While Smart Chip Recovery is in progress, the target ink will blink in the "Ink Status" menu.

☞ "Ink Status" P.113

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Error requiring reboot

An error requiring a restart is indicated when the printer experiences a fatal failure in its operation, such as

- · When obstacles that interfere with driving occur
- If an electrical circuit (PCB, motor, sensor, etc.) fails
- When an abnormality occurs in the control program

If this error occurs, the printer will stop operation after

- 1. Automatically shuts off power of the drive system.
- 2. All the LEDs on the printer control panel blink and the buzzer sounds intermittently.
- 3. Error message appears in the printer control panel.
- Tap any key on the printer control panel to stop the buzzer sound.
- For this kind of error, the printer will be recovered by removing the cause of the error and restarting the printer.
- If the same error message appears again, please contact the MUTOH dealer you purchased your printer from or the MUTOH Customer Support Center. When contacting us, please be sure to provide the code number of the error message.

Display	Causes and remedies
E016 xxxxxxxx[xx]	A problem was detected with the control program. 1. Turn off the power on the machine and turn it on after a while.
CPU ERROR [35]	A problem was detected with the control PCB. 1. Turn off the power on the machine and turn it on after a while.
E065 ERROR PF Motor	A problem was detected during motor control.
E066 ERROR CR Motor	1. Turn off the power on the machine and turn it on after a while.
E067 ERROR PF Encoder	
E068 ERROR CR Encoder	
E069 ERROR PF Timeout	
E070 ERROR CR Timeout	

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Display	Causes and remedies
E071 ERROR PF Current	Overcurrent or overload was detected during motor operation.
E072 ERROR CR Current	Open the front cover and check for any obstructions to carriage operation.
E073 ERROR PF2 Current	2. Check that the media is loaded into the printer correctly. 3. Turn off the power on the machine and turn it on after a while.
E074 ERROR CR2 Current	
E076 ERROR Pre Heat	A problem was detected with the heater control.
E077 ERROR Platen Heat	1. Turn off the power on the machine and turn it on after a while.
E078 ERROR Dryer	
E079 ERROR Board Commu.	A problem was detected with the communication between the control PCBs. 1. Turn off the power on the machine and turn it on after a while.
E081 ERROR CR Origin	A problem was detected during the origin detection. 1. Turn off the power on the machine and turn it on after a while.
E090 ERROR Heater Volt	A problem was detected with the heater voltage. 1. Turn off the power on the machine and turn it on after a while.
E092 ERROR CR Over Load	The CR motor was overloaded. 1. Turn off the power on the machine and turn it on after a while.
E093 ERROR Control Ver.	Control PCB version mismatch was detected. 1. Turn off the power on the machine and turn it on after a while.
E097 ERROR NVRAM	A problem was detected with the parameter.
E126 ERROR VBS 1	1. Turn off the power on the machine and turn it on after a while.
E127 ERROR VBS 2	
E13x ERROR SubTank x	A problem was detected with the sub-tanks in the ink supply path. 1. Turn off the power on the machine and turn it on after a while.
E140 ERROR Pre Therm.	A problem was detected with the heater temperature.
E141 ERROR PlatenTherm.	1. Turn off the power on the machine and turn it on after a while.
E142 ERROR Dryer Therm.	

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Display	Causes and remedies
E186 ERROR Head Temp 1	A problem was detected with the head temperature.
E187 ERROR Head Temp 2	1. Turn off the power on the machine and turn it on after a while.
E188 ERROR Head Heat 1	
E189 ERROR Head Heat 2	
E190 ERROR H Trans Th.1	
E191 ERROR HTrans Th.2	
E228 ERROR UV Fan1	A problem was detected with in the fan for cooling the UV-LED unit.
E229 ERROR UV Fan2	1. Turn off the power on the machine and turn it on after a while.
E231 ERROR UV HeadDet.	UV-LED unit are not yet installed.
	1. Turn off the power on the machine and turn it on after a while.
E232 ERROR Wiper Sensor	A problem was detected in the operation of the cleaning wiper.
E233 ERROR Wiper Motor	Check if there are any obstructions to interrupt cleaning wiper operation. Turn off the power on the machine and turn it on after a while.

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Troubleshooting

This section describes printer troubles that an error message is not prompted, and possible cause and solutions.



- Printer status and error information can be checked from MSM status information.
 If the printer is not working properly, please check the MSM.
- Please use the latest version of MSM.

 You can check the version information in MSM's help to see if there is a newer version than your MSM.

 If old version is installed in your computer, download the latest version from MUTOH Club.

MUTOH Status Monitor

Trouble during installation / initial setup

Symptoms	Possible cause and Remedy
Cannot perform initial ink charging.	Check that the front cover and maintenance covers are closed.
	Check that the pressure rollers are down.
	Make sure that ink bag cases and smartchip cards are all the way seated in the slots. "Load a new ink bag" P.138
Ink does not come out after Initial Charge.	 Check that the ink bag is not too cold. Rest the ink bags for at least 3 hours at room temperature, and then perform head cleaning several times. "Nozzle check and head cleaning" P.154
	Is the power turned OFF during ink charging? • Turn the power ON and perform an initial ink charging again.

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Symptoms	Possible cause and Remedy
Nozzle clogging occurs after initial ink charging.	Perform cleaning and then check the print results. "Nozzle check and head cleaning" P.154 • If there is no improvement in the print result even after performing cleaning, leave the printer unused for an hour or more. Then perform cleaning or "Little Charge" again and check the print result. If the problem still persists, contact your local Mutoh dealer.
Unable to connect to printer from MSM or RIP	Check that the Ethernet cable is connected securely to the Ethernet port.
	Check that the network settings are configured correctly.
	Check that the printer's network settings match with the computer's settings. "Menu 7: Initial Settings" P.115 "IP Address" P.115, "Subnet Mask" P.115, "Gateway" P.115

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Trouble with operation

Symptoms	Possible cause and Remedy	
	Check that the power cord is connected correctly.	
	Does the AC power supply provide the specified voltage? Connect to another outlet.	
	Check that the front cover and maintenance covers are closed.	
	Check that the pressure rollers are down.	
Printer does not work at all after powered on or even after media is loaded.	Check that the media is loaded into the printer correctly. "Load the media into the printer" P.45	
	Check that the ink bag cases are inserted into the ink slots.	
	Do you use the printer within recommended environmental conditions? • Make sure to use the printer within the specification range. © "Confirm installation location" Startup Guide	
	Is there any error message displayed on MSM? • Check MSM status information.	

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Media-related problems

Symptoms	Possible cause and Remedy
Media detached, torn, or wrinkled during media initials	Check that the media is loaded into the printer correctly. "Load the media into the printer" P.45
	Are there any foreign materials such as torn paper adhering to the pressure roller? • Clean the pressure roller. © "Cleaning inside the printer" P.157
	Do you use the printer within recommended environmental conditions? • Make sure to use the printer within the specification range. © "Confirm installation location" Startup Guide
	 Are any curls or warps present on your media? Place the edge holders on both edges of the media. Check that you select the appropriate vacuum fan setting. "5. After loading the media" P.55 "Menu 1: Setup menus" P.90 > "Vacuum Fan" P.91
	Are you using folded, scratched, torn, and winding curled media? • Replace the media.
	 Is holddown pressure adequate for the roll media? Try using the slide lock levers on the pressure rollers to individually reduce or cancel the pressurization. "Change pressure of pressure rollers individually" P.76



Remove jammed or torn media according to"In case of media jam" P.206.

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Symptoms	Possible cause and Remedy	
Media initials do not correctly identify media	Check that the media is loaded into the printer correctly. "Load the media into the printer" P.45	
	Is the media set at an angle? • Load the media straight. * "Load the media into the printer" P.45	
	Do you use the printer within recommended environmental conditions? • Make sure to use the printer within the specification range. © "Confirm installation location" Startup Guide	
	Are you using media that has been printed before? • Use new media.	
Frequent media jams.	Do you use the printer within recommended environmental conditions? • Make sure to use the printer within the specification range. © "Confirm installation location" Startup Guide	
	 Are any curls or warps present on your media? Place the edge holders on both edges of the media. Check that you select the appropriate vacuum fan setting. "5. After loading the media" P.55 "Menu 1: Setup menus" P.90 > "Vacuum Fan" P.91 	
	Are you using folded, scratched, torn, and rolled media? • Replace the media.	



Remove jammed or torn media according to "In case of media jam" P.206.

Symptoms	Possible cause and Remedy	
Media skews during printing	Check that the media is loaded into the printer correctly. "Load the media into the printer" P.45	

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Printing problems

Symptoms	Possible cause and Remedy		
	Check that the Ethernet cable is connected securely to the Ethernet port.		
Data is sent but not printed.	Is there any error message displayed on MSM? • Check MSM status information.		
	 Does your computer meets the following requirements? OS: Windows 11, Windows 10 CPU: Intel (R) Core (TM) i5 or more Memory: 8 GB or more Network: Use a network port that supports Gigabit Ethernet, and an Ethernet cable that supports Category 6 Gigabit Ethernet or later. The OS support period of MUTOH software follows the Microsoft support lifecycle policies. When using RIP software, please also check the system requirements of your RIP software. 		
Carriage pauses at right or left edge during printing	 Are you using a Gigabit-capable Ethernet cable to make the connection? Use a Gigabit-capable Ethernet cable of Category 6 or higher to connect the printer to the computer. 		
	 Is the MPS function enabled? Check the settings of the MPS function. "MPS" P.86 In the "On" setting: Check that your computer (specification, CPU load), Ethernet cable (specification, connectivity) and network environment meet the requirements. In the "Off" setting: In MSM, the checkbox "MUTOH Print Server (MPS)" is unchecked or "MPS Optimization" is set to "Disable". Try enabling MPS in MSM. Note Settings for the MPS function can be changed from the MSM.		

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Symptoms	Possible cause and Remedy	
Printing is partially smudged or missing.	 Are any curls or warps present on your media? Place the edge holders on both edges of the media. Check that you select the appropriate vacuum fan setting. "5. After loading the media" P.55 "Menu 1: Setup menus" P.90 > "Vacuum Fan" P.91 	
	Is the media deformed by heat? • If the media is deformed by heat during standby, increase the feed amount from the "Start Feed" menu. **The media is deformed by heat during standby, increase the feed amount from the "Start Feed" menu. **The media deformed by heat? • If the media deformed by heat? • If the media is deformed by heat? • I	
	Does the media contain moisture or are you using the creased or wrinkled media? • Replace with new media.	
	Is the parts around the print head clean? • Perform cleaning of the outer circumference of the print head. 3. Clean the parts around the print head" P.149	
	Check that the media is loaded into the printer correctly. "Load the media into the printer" P.45	
Printing is misaligned or there are areas that do not print.	Have you set the origin? • Cancel or reset the origin setting. ** "Menu 1: Setup menus" P.90 > "Origin" P.93	
	Are you printing on the printed side of the media? • Check the print side of the media and set it correctly.	
Printed lines bleed.	Did you perform "Print quality calibration (Adjust Print)"? • Perform "Print quality calibration (Adjust Print)". "Menu 1: Setup menus" P.90 > "Print quality calibration (Adjust Print)" P.97	
	Did you perform Media feed adjustment? • Perform Media feed adjustment. © "Menu 1: Setup menus" P.90 > "PF Adjust" P.91	

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Symptoms	Possible cause and Remedy	
White or black line appears on the print.	Check that the media is loaded into the printer correctly. "Load the media into the printer" P.45	
	Does the media contain moisture or are you using the creased or wrinkled media? • Replace with new media.	
	 Is the nozzle in good condition? Perform a nozzle check. If the nozzle is clogged, perform head cleaning. "Nozzle check and head cleaning" P.61 	
	Did you perform "Print quality calibration (Adjust Print)"? • Perform "Print quality calibration (Adjust Print)". "Menu 1: Setup menus" P.90 > "Print quality calibration (Adjust Print)" P.97	
	Did you perform media feed adjustment? • Perform Media feed adjustment. "Menu 1: Setup menus" P.90 > "Media feed adjustment" P.102	
Printing lines are not aligned/ doubled, Printed results are blurred.	 Is the nozzle in good condition? Perform a nozzle check. If the nozzle is clogged, perform head cleaning. "Nozzle check and head cleaning" P.61 	
	Did you perform "Print quality calibration (Adjust Print)"? • Perform "Print quality calibration (Adjust Print)". "Menu 1: Setup menus" P.90 > "Print quality calibration (Adjust Print)" P.97	
	Did you perform media feed adjustment? • Perform Media feed adjustment. "Menu 1: Setup menus" P.90 > "Media feed adjustment" P.102	
	Is the ink bag within its expiration date? • Use ink bags that are within the expiration date.	

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Symptoms	Possible cause and Remedy	
	Is the nozzle in good condition? • Perform a nozzle check. If the nozzle is clogged, perform head cleaning. "Nozzle check and head cleaning" P.61	
Printed color is not accurate.	Did you install ink ink bags and smartchip cards in the printer in correct color combination? • If the combination is incorrect, perform "Longstore" cleaning, then an initial ink charging.	
Nozzle clogging remains after head cleaning.	Are the cleaning wipers and the parts around the print head clean? • Clean the cleaning wiper and the parts around the print head. ———————————————————————————————————	
	 Did you select an appropriate cleaning option? Select Print Head: Select "all" or heads with clogged nozzles. "Menu 3: Cleaning" P.111 Cleaning Type: If the nozzle clogging is not resolved after 2 or 3 times of Normal or Long cleaning, perform Little Charge. "Menu 3: Cleaning" P.111 	
	Is it time to replace cleaning wipers or the pad for the flushing box? • Check the conditions of cleaning wiper and flushing box pad and replace them if required. "About Maintenance" P.131 "Cleaning Wiper" P.161	
Ink does not dry easily after printing	Are you using a heater? • Check the heater settings. "Menu 1: Setup menus" P.90 > "Preheater" P.91, "Platen Heater" P.91 ,"Dryer" P.91	



- When printing that uses a lot of ink, there is a risk that the ink may not dry easily after printing.
- Depending on the media you are using, the ink may not dry easily.

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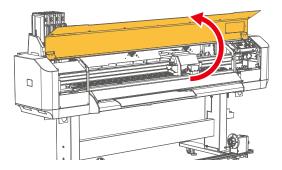
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In case of media jam

When the media is jammed in the printer, follow these steps to remove it.

- 1 Turn off the printer.
 - Turn off the printer" P.44
- Open the front cover.

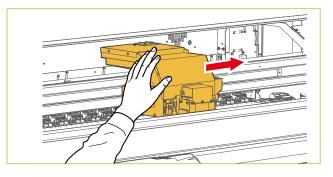


Move the carriage from the top of the media to the right side.

| Important!

When the head height is set to Low or Middle, change it to High and then move the carriage. After moving, change the head height back to Low or Middle.

Print head Height" P.73



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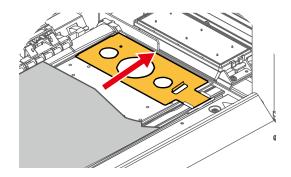
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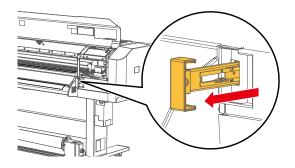
Remove the edge holder from the media.

□ Important!

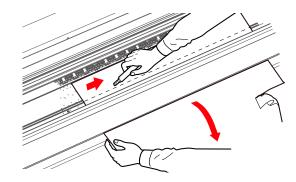
If the edge holder is deformed, stop using the printer and contact your local MUTOH dealer.



Raise the pressure rollers.



Pull the media toward the front and use a personal cutter to cut the torn part of the media along the groove.



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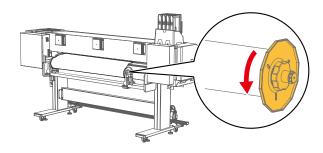
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Turn the flange of the roll media holder to rewind the media onto the roll.

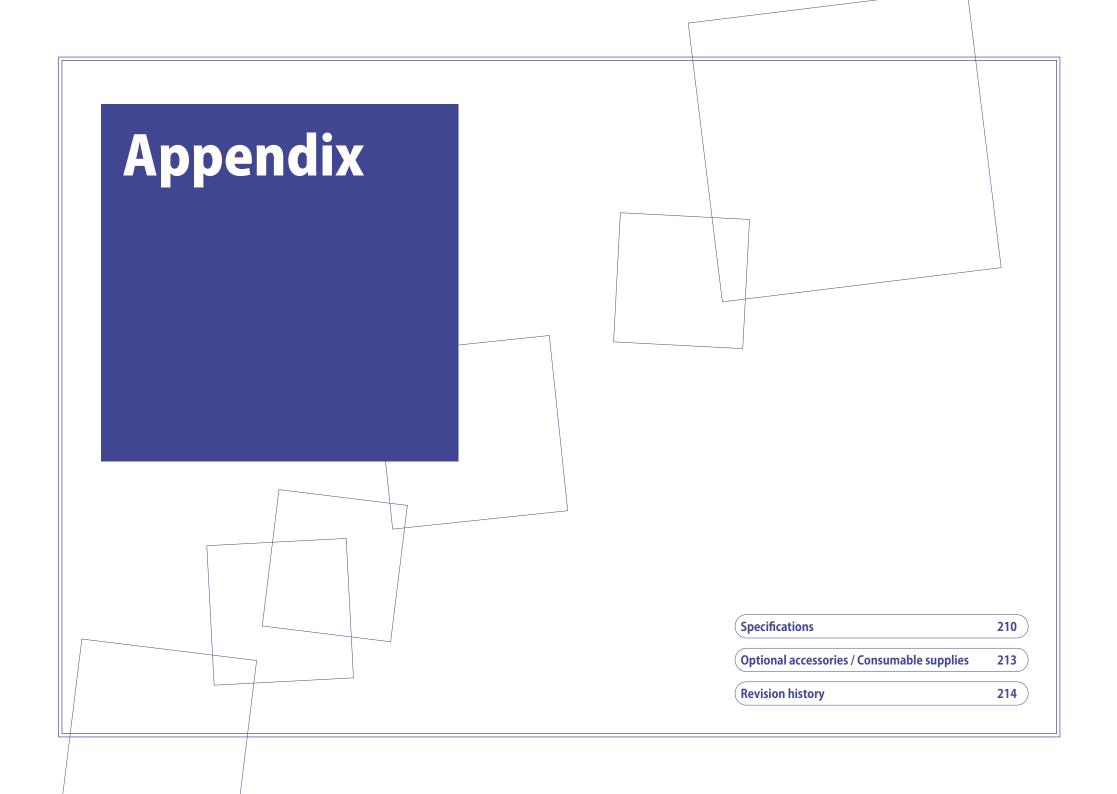


- If paper dust or pieces of paper remain inside the printer, remove them.
- Turn on the printer.
- Turn on the printer" P.43
- Load a roll media to print a nozzle check pattern.

 "Load the media into the printer" P.45
- 11 Tap Key.
- 12 Tap 🔃 (Enter).
 - The printer will print the nozzle check pattern F.

Nozzle Check F
Start -> Enter

- 13 Check the pattern printed.
 - If the nozzle is clogged, proceed to "Performing Head cleaning" ${\bf P.63}$.
 - If all lines are clearly printed, you can start printing.



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Revision history

Specifications

Item		Description
Model name		HA-1642
Printing method		On-demand piezo method
Driving method		Firmware servo / DC motor drive
Media feed method	l	Multipoint pressurized grid roller system
Media hold-down s	ystem	Pressure rollers down system with manual lever
Ink curing system		UV-LED
Media size	Media outer diameter	200 mm or less
	diameter	2 inch or 3 inch
	Weight	30 kg or less
	Width	500 mm to 1,625 mm
	Recommended media thickness	1.0 mm or less
Maximum printable width		1,615 mm
Maximum printable	elength	1,500 m
Head height adjustment		Low / Middle / High 3-step adjustment
Interface		Gb-Ethernet (1000BASE-T)
Waste ink tank		2,000 ml tank attached to the printer
Ink Colors		4 colors (black, cyan, magenta, yellow)
	Туре	1,000 ml ink bag

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Item		Description
Environmental Requirements	Operating condition	Temperature: 20 ° C to 32 ° C Humidity: 40 % to 60 %, non condensing
	Printing Condition	Temperature: 22 ° C to 30 ° C Humidity: 40 % to 60 %, non condensing
	Change rate	Temperature: no more than 2 ° C per hour Humidity: no more than 5 % per hour
	Printer Storage Condition	 Without ink filled: Within 6 months: Temperature: 10 ° C to 60 ° C Humidity: 20 % to 80 %, non condensing With ink filled: Within1 week: Temperature: 10 ° C to 40 ° C Humidity: 20 % to 80 %, non condensing Storage must be within 4 days when stored between 32 ° C to 40 ° C.
	Ink Storage Condition	 Black / Cyan / Magenta / Yellow (1,000 ml each) Temperature: 10 ° C to 40 ° C Humidity: 5 % to 85 %, non condensing Storage must be within one month when stored at 40 ° C. Keep away from heat sources and flammable materials and store in a cool, dark and well-ventilated place. Cleaner bag (300 ml) Temperature: 10 ° C to 40 ° C Humidity: 80 % or less, non condensing Storage must be within one month when stored between 30 ° C to 40 ° C.
Power	Printer:	
specifications	Input voltage	AC 100 V to 120 V \pm 10 % AC 200 V to 240 V \pm 10 %
	Input frequency	50 / 60 Hz ± 1 Hz
	Input current	AC 100 V to 120 V: 12 A or less AC 200 V to 240 V: 7 A or less

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Power Heater: 1 Specifications Input voltage AC 100 V to 120 V \pm 10 % AC 200 V to 240 V \pm 10 %	
716 200 V to 2 10 V = 10 70	
Input frequency $50 / 60 \mathrm{Hz} \pm 1 \mathrm{Hz}$	
Input current AC 100 V to 120 V: 10 A or less AC 200 V to 240 V: 5 A or less	
Power Take-up unit: 1 specifications Input voltage AC 100 V to 240 V ± 10 %	
Input frequency $50/60 \text{Hz} \pm 1 \text{Hz}$	
Input current AC 100 V to 240 V: 0.26 to 0.13 A or less	
Power off 20 W or less	
Ready-to-print 240 W or less (When heater is not used)	
Sleep Mode 41 W or less	
Operation 1400 W or less (Peak 2700 W)	
Dimensions Height 1,428 mm When ink bag case (1,000 ml) is installed: 1,611 mm	
Width 2,770 mm	
Depth 895 mm	
Weight Printer 146 kg	
Stand 32 kg	
Take-up unit 8 kg	

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For information about optional accessories and consumable supplies, please contact your local MUTOH dealer.

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Date	Version	Manual control number	Supported firmware
2024.07	00	HA1642E-A-00	V.1.00
2024.12	01	HA1642E-A-01	V.1.01
2025.04	02	HA1642E-A-02	V.1.02
2025.10	03	HA1642E-A-03	V.1.03