

Maintenance That Should Be Performed Every Six Months

Refreshing Subtanks (REFRESH SUBTANKS)

Refresh the subtanks once every six months to resolve issues with ink components precipitating in the subtanks. If this procedure is not performed once every six months, print quality may be adversely affected, e.g., printed colors may be uneven.

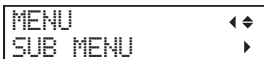
This operation is effective when light choke cleaning does not resolve uneven color issues.

IMPORTANT!

Refreshing the subtanks consumes more ink and places more of a strain on the print heads than light choke cleaning. Undertake this procedure with caution if performing it more than once every six months.

1. Enter the [REFRESH SUBTANK] menu.

1 Press **MENU**.

2 

Press  several times to display the screen shown on the left.

Press .

3 

Press  several times to display the screen shown on the left.

Press , then .

4 

Press **ENTER**.

2. Start refreshing the subtanks.

1 

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

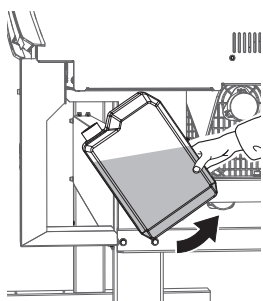
⚠ CAUTION

When [EMPTY DRAIN BOTTLE] is displayed, you must discard the discharged fluid. If you do not discard it at this stage, discharged fluid will overflow from the drain bottle during the procedure that follows.

⚠ CAUTION

Before you detach the drain bottle, be sure to wait for the screen to display [EMPTY DRAIN BOTTLE].

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

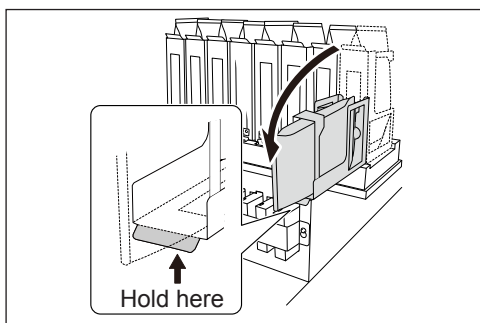


- 2 After discarding the discharged fluid, press **ENTER**.

IMPORTANT! Precautions for the operations to follow

- Take care not to drop ink pouches.
- During this work, move the ink pouch holders slowly. If you let go of the ink pouch holders partway through moving them, they will be subjected to a strong impact, which may cause the ink to leak.

- 3 **DOWN INK POUCH HOLDER**

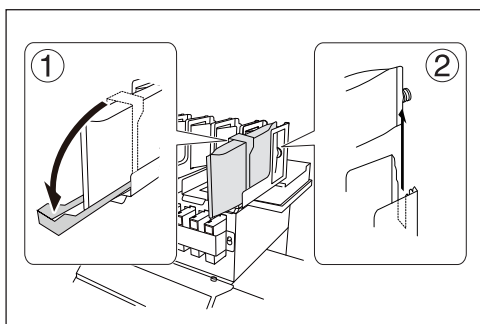


Pull all the ink pouch holders forward.

Lower the ink pouch holders slowly without letting go of them.

- 4 Press **ENTER**.

- 5 **REMOVE INK POUCH**
12345678



① **Remove the stoppers.**

② **Remove all the ink pouches.**

If ink gets on the machine or the floor when removing an ink pouch, wipe it off with a dry cloth or a similar object.

- 6 Press **ENTER**.

- 7 **EMPTY**
DRAIN BOTTLE

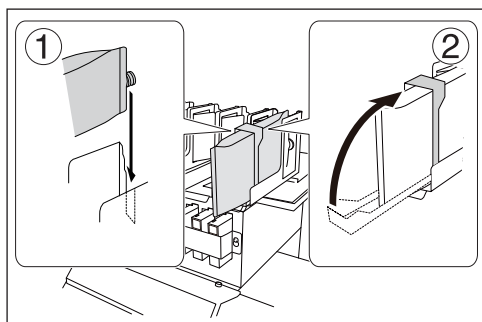
When the screen on the left is displayed, remove the drain bottle and discard the discharged fluid.

- 8 Press **ENTER**.

"EMPTY DRAIN BOTTLE" appears on the screen several times. Repeat steps 7 and 8.

3. Finish refreshing the subtanks.

1 SET INK POUCH
12345678



① **Install all the ink pouches.**

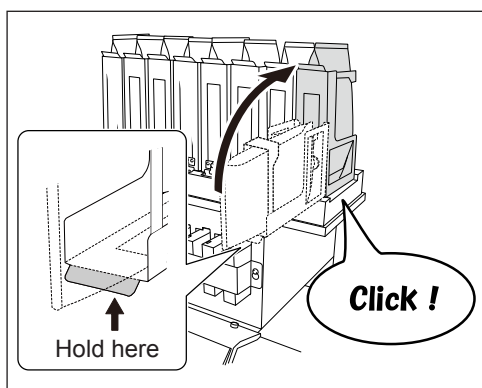
Take care to use the right colors.

② **Attach the stoppers.**

Take care not to crush the ink pouches.

2 Press **ENTER**.

3 UP INK POUCH
12345678



Raise all the ink pouch holders.

Raise the ink pouch holders slowly without letting go of them.

IMPORTANT!

When installing an ink pouch and returning the ink pouch holder to its original position, raise the ink holder firmly until it clicks into place. Ink will leak if the ink pouch holder is not returned to the correct position.

4 Press **ENTER**.

5 EMPTY
DRAIN BOTTLE

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

6 Press **ENTER**.

INK CONTROL
REFRESH SUBTANK

When finished, the screen shown on the left appears again.

7 Press **MENU** to go back to the original screen.

When Problems Such as Dot Drop-Out Are Not Fixed

When Problems Such as Dot Drop-Out Are Not Fixed

Perform the procedure below if ink discharge issues such as dot drop-out are not corrected after performing cleaning using the cleaning function (normal, medium, powerful) or manual cleaning.

IMPORTANT!

A large amount of ink will be discharged during this operation. Perform this operation only when dot drop-out cannot be corrected even after performing cleaning using the cleaning function (normal, medium, powerful) or manual cleaning.

☞ P. 58 "Maintenance That Should Be Performed Daily", P. 62 "When Normal Cleaning Is Not Effective",
P. 66 "Maintenance That Should Be Performed More than Once a Month"

Procedure

1 Discard the discharged fluid in the drain bottle.

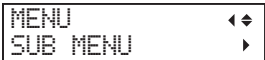
Refer to P. 58 "Disposing of Discharged Fluid" to discard the discharged fluid. Start from step 2.

⚠ CAUTION

The discharged fluid must be discarded at this stage.

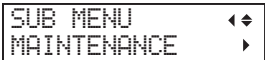
A large amount of ink will be discharged during this operation. The discharged fluid must be discarded at this stage. If you do not discard it at this stage, discharged fluid may overflow from the drain bottle during the procedure that follows.

2 Press **MENU**.

3 

Press  several times to display the screen shown on the left.

Press .

4 

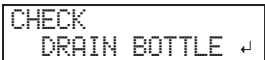
Press  several times until the screen on the left appears.

Press .

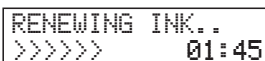
5 

Press  several times until the screen on the left appears.

Press .

6 

Check that the drain bottle is empty, and then press .



The screen shown in the figure appears.

The (approximate) remaining time for the procedure is displayed on the screen. ("01:45" = "1 minute and 45 seconds")



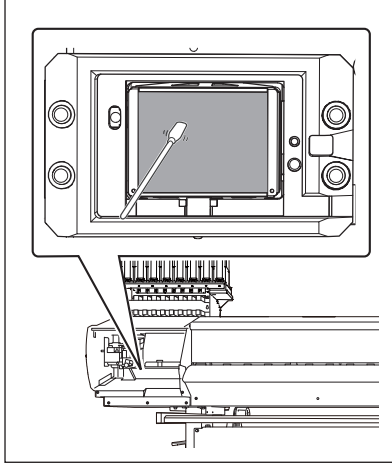
When cleaning finishes, the screen shown in the figure appears again.

7 Press **MENU**, then to go back to the original screen.

POINT!

Cleaning the print head surface as an emergency measure

When dot drop-out or dot deflection is not improved even if cleaning is performed several times, you can clean the surface of the print heads as an emergency measure. The print head surface (nozzle surface) is a very delicate mechanism, so work must be performed carefully and cautiously.



Very gently touch the cleaning stick against the print head surface (nozzle surface).

Very softly press the cleaning stick against the print head surface. Never rub the stick or press it forcefully against the print head surface.

This procedure is an emergency measure. Depending on symptoms, it may damage normal areas and cause symptoms to worsen. If you have any questions, contact your authorized Roland DG Corp. dealer.

Replacing Consumable Parts

Replacing the Wiper

The wiper is a component that is used for cleaning the print heads. When the screen displays a message like the one shown below, it is time to replace the items. There are two wipers. Replace both wipers with new ones.

TIME FOR
WIPER REPLACE ↵

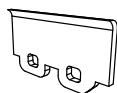
For information about purchasing wipers, contact your authorized Roland DG Corp. dealer.

⚠ CAUTION

Be sure to perform operations as specified by the instructions, and never touch any area not specified in the instructions.

Failure to observe these instructions may cause the machine to move suddenly, resulting in injury.

Required items



Wiper



Tweezers

1. Enter the wiper replacement menu.

1

TIME FOR
WIPER REPLACE ↵

When the screen on the left is displayed, press **ENTER**.

2

Remove any media.

3

Press **MENU**.

4

MENU ⬅ ➡
SUB MENU ➡

Press **▼** several times to display the screen shown on the left.

Press **▶**.

5

SUB MENU ⬅ ➡
MAINTENANCE ➡

Press **▼** several times to display the screen shown on the left.

Press **▶**.

6

MAINTENANCE ⬅ ➡
REPLACE WIPER ↵

Press **▼** several times to display the screen shown on the left.

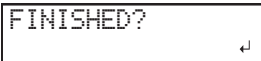
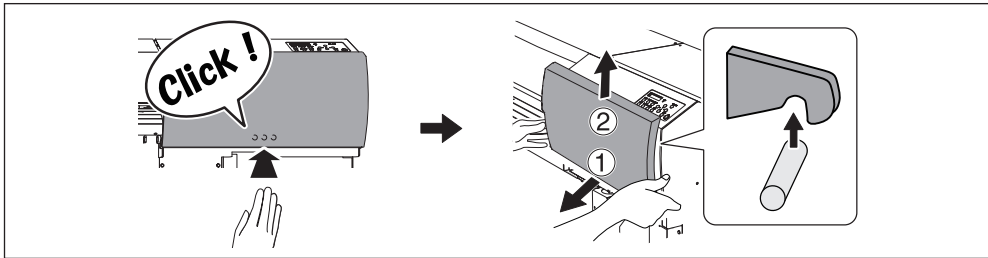
Press **ENTER**.

↓
OPEN COVER R

The print-head carriage moves to a location where wiper replacement is possible, and then the screen shown on the left appears.

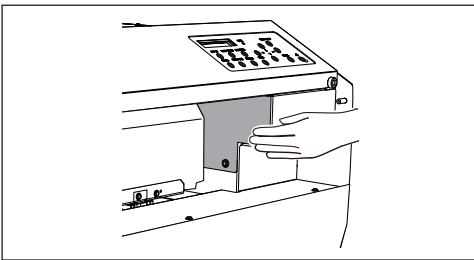
2. Replace the wiper.

1 Open the right cover.



Preparations are complete when this screen appears.

2



Touch the location shown in the figure to discharge any static electricity.

3 Replace the first wiper.

Removing an old wiper

Tweezers (included)

Hook

Detach the hook.
Using the tweezers to press on the hook in the hole on the wiper makes it easier to remove the wiper.

Pull up and out.

Point

If the area is dark and difficult to see, use a flashlight or a similar device to illuminate the area.

Attaching a new wiper

Place the inclined end on the back side.
If the wiper is installed with the incorrect orientation, appropriate cleaning will not be possible.

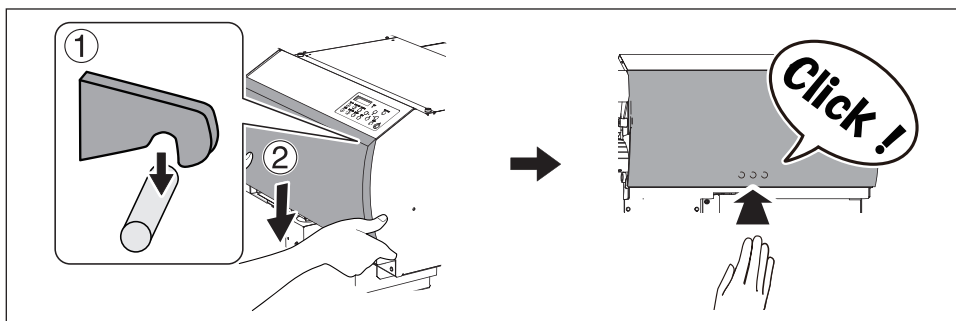
Attach the part to the hooks.
Be sure to attach the part to the hooks. Failure to do so may result in dot drop-out or other problems.

Hook

4 Press **ENTER**.

5 **CLOSE COVER R**

Close the right cover.



6 **OPEN COVER R**

Open the right cover.

FINISHED?

Preparations are complete when this screen appears.

7 **Replace the second wiper.**

The replacement procedure is the same as for the first wiper. Refer to the illustration shown in step 3.

3. Exit the wiper replacement menu.

1 Press **ENTER**.

2 **CLOSE COVER R**

Close the right cover.

MAINTENANCE ⬅➡
REPLACE WIPER ⬇➡

After the process to exit the wiper replacement menu is performed, the screen shown in the figure appears.

3 Press **MENU**, then **⬅** to go back to the original screen.

4. Perform a printing test to verify the results of the procedure.

Perform a printing test to check the results.

➡ P. 45 "Printing Tests and Normal Cleaning"

Replacing the Felt Wiper

The felt wiper is a component that is used for cleaning the print heads. When the screen displays a message like the one shown below, it is time to replace the items. There are two felt wipers. Replace both felt wipers with new ones.

TIME FOR
FELT REPLACE ↵

For information about purchasing felt wipers, contact your authorized Roland DG Corp. dealer.

⚠ CAUTION

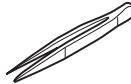
Be sure to perform operations as specified by the instructions, and never touch any area not specified in the instructions.

Failure to observe these instructions may cause the machine to move suddenly, resulting in injury.

Required Items



Felt wipers



Tweezers

3

Maintenance

1. Enter the felt wiper replacement menu.

1

TIME FOR
FELT REPLACE ↵

When the screen on the left is displayed, press **ENTER**.

2

Remove any media.

3

Press **MENU**.

4

MENU ⬅ ➡
SUB MENU ➡

Press **▼** several times until the screen on the left appears.

Press **▶**.

5

SUB MENU ⬅ ➡
MAINTENANCE ➡

Press **▼** several times until the screen on the left appears.

Press **▶**.

6

MAINTENANCE ⬅ ➡
REPLACE FELT ↵

Press **▼** several times until the screen on the left appears.

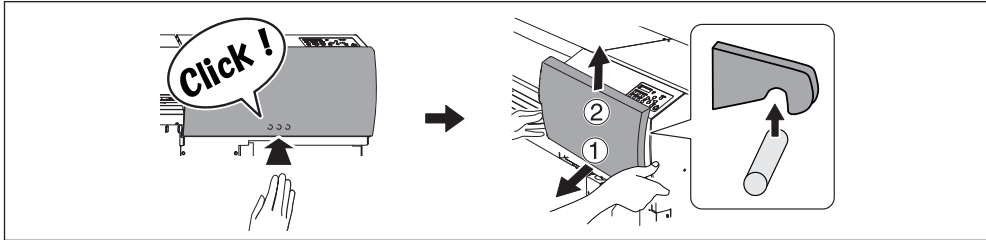
Press **ENTER**.

↓
OPEN COVER R

The print-head carriage moves to a location where felt wiper replacement is possible, and then the screen shown on the left appears.

2. Replace the felt wiper.

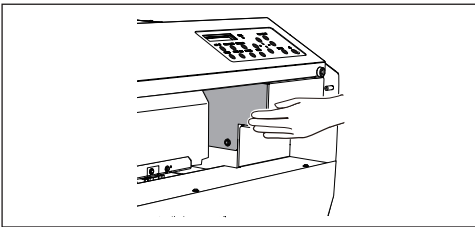
1 Open the right cover.



FINISHED?

Preparations are complete when this screen appears.

2



Touch the location shown in the figure to discharge any static electricity.

3 Open the front cover.

4 Replace the first felt wiper.

Removing an old felt wiper

Tweezers (included)

Hook

Pull up and out.

Detach the hook.
Using the tweezers to press on the hook in the hole on the felt wiper makes it easier to remove the felt wiper.

Point

If the area is dark and difficult to see, use a flashlight or a similar device to illuminate the area.

Attaching a new felt wiper

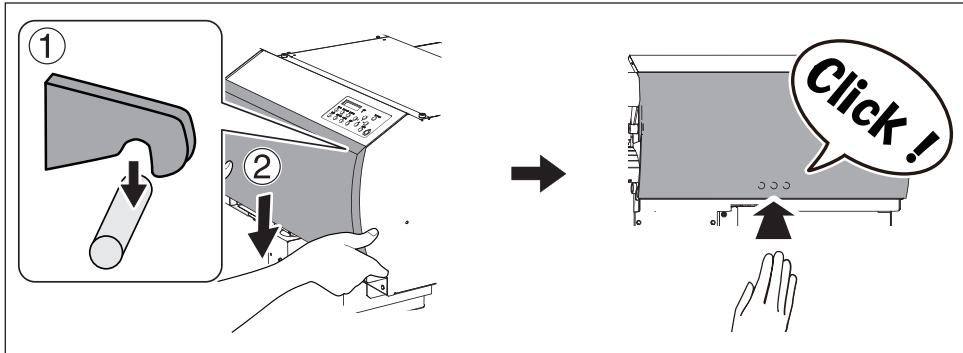
Hook

Attach the wiper to the hook.
Make sure the wiper catches on the hook. Failure to do so may result in drop-out or other problems.

5 Close the front cover.

6 Press **ENTER**.

7 **CLOSE COVER R** Close the right cover.



8 **OPEN COVER R** Open the right cover.

FINISHED? Preparations are complete when this screen appears.

9 Open the front cover.

10 Replace the second felt wiper.

The replacement procedure is the same as for the first felt wiper. Refer to the illustration shown in step 4.

3. Exit the felt wiper replacement menu.

1 Close the front cover.

2 Press **ENTER**.

3 **CLOSE COVER R** Close the right cover.

**MAINTENANCE
REPLACE FELT**

After the process to exit the felt wiper replacement menu is performed, the screen shown in the figure appears.

4 Press **MENU**, then **◀** to go back to the original screen.

4. Perform a printing test to verify the results of the procedure.

Perform a printing test to check the results.

➤ P. 45 "Printing Tests and Normal Cleaning"

Replacing the Separating Knife

If the separating knife becomes dull, replace it with the included replacement knife.

⚠ CAUTION

Be sure to perform operations as specified by the instructions, and never touch any area not specified in the instructions.

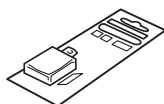
Failure to observe these instructions may cause the machine to move suddenly, resulting in injury.

⚠ CAUTION

Do not touch the edge of the separating knife.

Doing so may result in injury.

Required Items



Replacement blade
for separating knife

1. Enter the knife replacement menu.

① Remove any media.

② Press **MENU**.

③

MENU	⬅ ➡
SUB MENU	➡

Press **▼** several times until the screen on the left appears.

Press **▶**.

④

SUB MENU	⬅ ➡
MAINTENANCE	➡

Press **▼** several times until the screen on the left appears.

Press **▶**.

⑤

MAINTENANCE	⬅ ➡
REPLACE KNIFE	↵

Press **▼** several times until the screen on the left appears.

Press **ENTER**.

NOW PROCESSING..



OPEN FRONT COVER

The print-head carriage moves to a location where knife replacement is possible, and then the screen shown on the left appears.

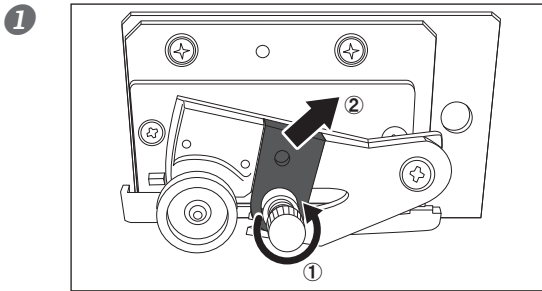
⑥

FINISHED?	↵
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Open the front cover.

Preparations are complete when this screen appears.

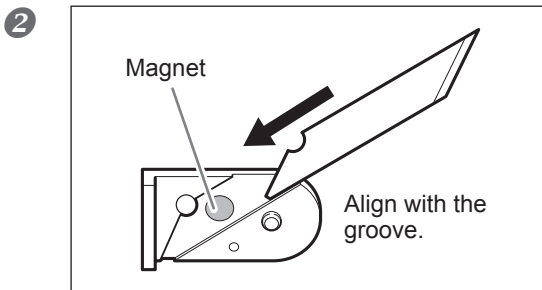
2. Replace the separating knife.



Remove the separating knife.

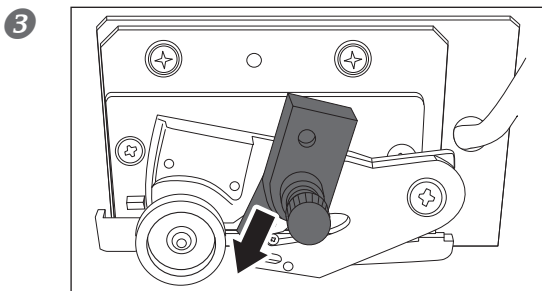
① Loosen the screw until it slips out.

② Grasp the screw portion, and slowly pull in the direction of the arrow. When doing this, do not pull it toward you.

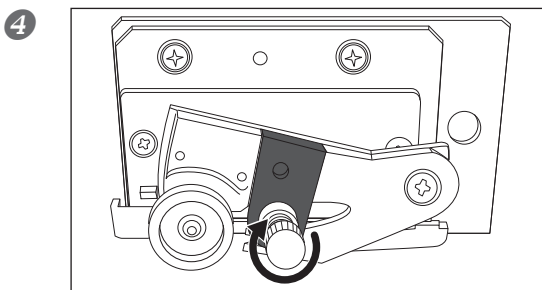


Install a new knife.

The knife is secured in place by the magnet.



Slowly insert the knife into the groove.



Tighten the screw.

Take care to ensure that the knife does not slip out of position at this time.

3. Exit the knife replacement menu.

① Close the front cover.

② Press **ENTER**.

③ Press **MENU** to go back to the original screen.

When Not in Use for a Prolonged Period

Keep Performing Maintenance

Switch on the power once a month

Switch on the sub power once a month. When you turn on the power, the machine automatically performs some operations such as those to keep the print heads from drying out. Leaving the machine unused for a prolonged period may damage the print heads, so be sure to switch on the power to perform these automatic operations.

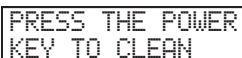
Keep at a constant temperature and relative humidity

Even when the machine is not in use, keep it at a temperature of 15 to 30°C (59 to 86°F) and a relative humidity of 20 to 80% (with no condensation). Temperatures that are too high may degrade the ink and cause malfunctions. Temperatures that are too low may cause the ink to freeze and damage the print heads.

Alarm Feature

3

Maintenance



PRESS THE POWER
KEY TO CLEAN

The alarm feature reminds you to switch on the sub power once a month. When the machine remains unused for about one month, this screen appears and a warning beep sounds. If this screen appears, switch on the sub power. When maintenance operations finish, switch off the sub power.

This feature operates when the machine's main power is turned on. Leave the main power switched on at all times even when the machine is to remain out of use for a prolonged period.

If the Machine has not been Used for Over One Month

If the machine has not been used for over one month, refresh the sub tanks. If you use the machine straight away without performing this procedure, printing may be adversely affected, e.g. printed colors may be unstable.

➡ P. 73 "Refreshing Subtanks (REFRESH SUBTANKS)"

Chapter 4

Advanced Functions

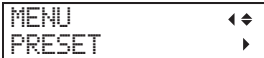
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Fully Utilizing the Preset Function

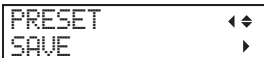
Saving Various Settings as a Name Assigned Preset

Procedure

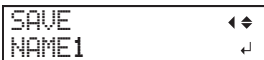
1 Press **MENU**.

2 

Press **▼** to display the screen shown on the left.
Press **▶**, then **▼**.

3 

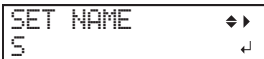
Press **▶**.

4 

Press **▲** or **▼** to select one option from NAME1 to NAME8.

Press **ENTER** to confirm your entry.

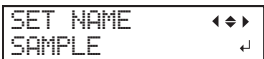
The current menu settings are saved.

5 

Press **▲** or **▼** to enter a character.

When you have selected the character you want to enter, press **▶**.

The characters you can enter are "A" through "Z," "0" through "9," and the "-" character. You can enter up to 15 characters, including spaces.

6 

Press **▲** or **▼** to enter the next character.

Enter the following characters in the same way.

When you have finished, press **ENTER** to confirm your entry.

7 Press **MENU**, then **◀** to go back to the original screen.

Description

Using the [PRESET] menu lets you easily change a wide variety of settings to optimize them for the media. Up to eight types of presets can be saved. You can assign a name to each one. Using media names for these may aid recognition and clarity. Making changes for each menu item every time you change the media can be troublesome. That's why it can be useful to save the menu-item settings optimized for an often-used type of media as a preset. The next time you use the media, you can change the menu-item settings to the optimal values for the media simply by loading the preset you saved. The menu items that can be saved in presets are listed below.

[DRYER]	☞ P. 92 "Setting the Temperature of the Dryer"
[PREHEATING]	☞ P. 93 "Dryer Control While Idling"
[FEED FOR DRY]	☞ P. 94 "Drying the Trailing Edge of the Printing Area on the Dryer"
[DRYING TIME]	☞ P. 95 "Setting the Drying Time after Printing"
[ADJUST BI-DIR SIMPLE SETTING]	☞ P. 96 "Correcting for Misalignment in Bidirectional Printing"
[ADJUST BI-DIR DETAIL SETTING]	☞ P. 96 "Correcting for Misalignment in Bidirectional Printing More Precisely"
[CALIBRATION]	☞ P. 97 "Reducing Horizontal Bands (Feed Correction Function)"
[SHEET TYPE], [SHEET WIDTH], [SHEET POS.]	☞ P. 101 "Using Transparent Media"
[SCAN INTERVAL]	☞ P. 103 "Using Hard-to-Dry Media"
[VACUUM POWER]	☞ P. 103 "Using Media That Does Not Move Smoothly"
[FULL WIDTH S]	☞ P. 104 "Changing the Range of Print-head Carriage Movement"
[SIDE MARGIN]	☞ P. 105 "Expanding the Printing Area by Reducing the Margins"
[MEDIA RELEASE]	☞ P. 107 "Using Sticky Media"

☞ P. 89 "Loading a Saved Preset"

Loading a Saved Preset

Procedure

1 Press **MENU**.

2  MENU PRESET

3  LOAD NAME1

 SETUP SHEET

Press  to display the screen shown on the left.
Press  twice.

Press  or  to select the name of the preset you want to load.
Press  to confirm your entry.

The settings are changed and the screen shown on the left appears.

Description

This loads a saved preset. You can select any one of eight types of presets. (When no names have been assigned, select from among NAME1 through NAME8.) If you load a preset while **SET UP** is lit, **SET UP** starts flashing. After that, when the setup operation is complete, **SET UP** returns to being lit.

Automatic Loading of a Saved Preset When Media Is Loaded

Procedure

- 1

Press **MENU**.
- 2

MENU
PRESET

Press **▼** to display the screen shown on the left.
Press **▶**, then **▲**.
- 3

PRESET
AUTO DISPLAY

Press **▶**.
- 4

AUTO DISPLAY
DISABLE ▶ ENABLE

Press **▲** or **▼** to select "ENABLE."
Press **ENTER** to confirm your entry.
- 5

Press **MENU**, then **◀** to go back to the original screen.

Description

Once "ENABLE" is selected, the screen for loading a preset is always displayed when the media is loaded. Follow the procedure given below to use the loaded preset.

How to Use the Loaded Preset

Press **SET UP** at the end of the media loading process to display the screen shown in the figure. Press **ENTER** to load the displayed preset. (Press **SET UP** before pressing **ENTER** to perform setup with the current settings without loading the preset.)

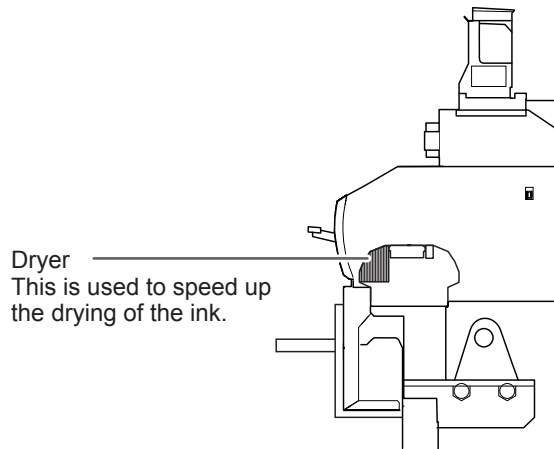
LOAD PRESET
NAME1

The preset displayed on the screen is the last loaded preset or the last saved preset. You can select other presets by pressing **▲** or **▼**.

Using the Dryer

What is the Dryer?

This machine is equipped with a dryer for drying the ink. You can adjust the temperature settings to match the type of media and the printing speed.



⚠ WARNING

Caution: High temperatures

The dryer becomes hot. Exercise caution to avoid fire or burns.

⚠ WARNING

Remove any loaded media or switch off the sub power when printing is not being performed.

The continued application of heat at a single location may cause fire or produce toxic gases.

⚠ WARNING

Never use media that cannot withstand the heat.

Doing so may result in fire or the release of toxic gases or may degrade the media.

⚠ WARNING

Never use the platen or dryer for any purpose for which they are not intended, such as to dry clothing.

Doing so may cause overheating, resulting in a fire or accident.

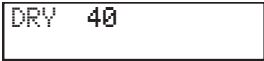
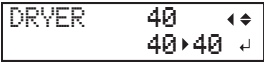
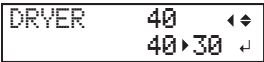
Use the machine in an environment with an ambient temperature of 20 to 32°C (68 to 90°F).

If the machine is used at an ambient temperature lower than 20°C (68°F), then depending on the type or width of the media, wrinkling or temperature-caused unevenness may occur. If this happens, try lowering the temperature of the dryer by about 2°C (36°F). To obtain stable printing results, however, use the machine in an environment with an ambient temperature of 20 to 32°C (68 to 90°F).

Note: Depending on the printing conditions, an external heater may be needed. For the details of the recommended external heater, contact your authorized Roland DG Corp. dealer. For information on how to use the external heater, refer to the documentation for the heater you are using.

Setting the Temperature of the Dryer

Procedure

- 1 Press **HEATER**.
- 2  The current temperature is displayed.
Press **HEATER** a second time.
- 3  Press  or  to select the unit.
- 4  Press  or  to set the temperature.
You can also set the temperature to "OFF."
Press **ENTER** to confirm your entry.
- 5 Press **MENU**, then  to go back to the original screen.

Temperature Setting Estimates and Hints

The optimal temperature for the dryer varies according to such factors as the type of media and differences in the print mode. Use the following as a general guide and adjust the temperature accordingly.

Dryer	When ink drying is poor, raise the temperature. Note, however, that a temperature that is too high may degrade the media or cause it to wrinkle.
Relationship between the print mode and temperature	The optimal temperature for the dryer varies according to such factors as the type of media and differences in the print mode. If smudging or poor drying occur even after raising the temperature, try using a print mode of the software RIP offering higher image quality. Conversely, if you want to use a faster print mode, raise the temperature.
Amount of ink	When you change the amount of ink using the settings for your software RIP, adjusting this may yield better results. If problems such as smudging persist even after raising the temperature, try reducing the amount of ink.
Other points to remember	When recommended settings for temperature, print mode, and other values are given as the use condition of your media, use the suggested settings.

- These are only rough estimates. Make adjustments to match the media you're using.
- Using the dryer does not necessarily make it possible to apply ink to every kind of media. Be sure to test in advance.
- Results may vary greatly depending on the print mode and other factors. Make settings suited to the media.

Description

With the default settings, simply switching on the power does not make the dryer warm up to the set temperature. The temperature rises to the set temperature when the media is loaded correctly and **SET UP** lights. You can also make this setting in the software RIP. When you have made the setting in the software RIP, the software RIP's setting is used.

* Depending on the usage environment, the temperature of the dryer may become higher than the set temperature, but this does not represent a problem.

Default Setting

[DRYER]: 40°C (104°F)

Dryer Control While Idling

Note: Preheating: State in which the main power and the sub power are switched on and **SET UP** is not lit (state in which the media setup is not completed)

Procedure

- 1

Hold down **MENU** and press **HEATER**.
- 2

HEATER MENU

PREHEATING

Press **▶**, then **▼** to display the screen shown on the left.
Press **▶**.
- 3

PREHEATING

30°C ▶ MENU ▶

Press **▲** or **▼** to select a setting.
Press **ENTER** to confirm your entry.
- 4

Press **MENU**, then **◀** to go back to the original screen.

Default Setting

[PREHEATING]: 30°C (86°F),

Drying the Trailing Edge of the Printing Area on the Dryer

Procedure

- 1 Hold down **MENU** and press **HEATER**.
- 2

HEATER MENU	◀◆
FEED FOR DRY	▶

 Press **▶** to display the screen shown on the left.
Press **▶**.
- 3

FEED FOR DRY	◀◆
DISABLE▶ENABLE	↵

 Press **▲** or **▼** to select "ENABLE."
Press **ENTER** to confirm your entry.
- 4 Press **MENU**, then **◀** to go back to the original screen.

Description

- **ENABLE:** Media feeding is performed until the trailing edge of the printing area is positioned on the dryer. The margin between the print-end position and the next print-start position is set to a value of 125 mm (4.9 in.). If you set the margin to a value that is greater than or equal to the above value in the software RIP, the software's setting is used.
- **DISABLE:** Media feeding stops when printing ends. This means that the trailing edge of the printing area is not fed to the dryer unless you continue with a subsequent printing operation.

Default Setting

[FEED FOR DRY]: DISABLE

Setting the Drying Time after Printing

Procedure

- 1 Hold down **MENU** and press **HEATER**.
- 2 Press **▶**.
- 3

HEATER MENU	◀▶
DRYING TIME	▶

 Press **▲** to display the screen shown on the left.
Press **▶**.
- 4

DRYING TIME	◀▶
0min ▶ 10min	◀▶

 Press **▲** or **▼** to select the drying time.
Press **ENTER** to confirm your entry.
- 5 Press **MENU**, then **◀** to go back to the original screen.

Description

Set the drying time after the 1st page is printed. The next operation is not started until the set time passes. During drying, **PAUSE** is lit. Press **PAUSE** while **PAUSE** is lit to finish the drying time and start the next operation. Also, hold down **SET UP** while **PAUSE** is lit to cancel the output. You can also make this setting in the software RIP. When you have made the setting in the software RIP, the software RIP's setting is used.

Default Setting

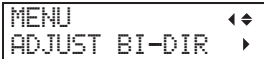
[DRYING TIME]: 0min

Fully Utilizing the Correction Function

Correcting for Misalignment in Bidirectional Printing

Procedure

1 Press **MENU**.

2 

Press **▼** several times to display the screen shown on the left.

Press **▶**.

3 

Press **ENTER**.

A test pattern is printed.

When printing ends, press **▼**, and then press **▶**.

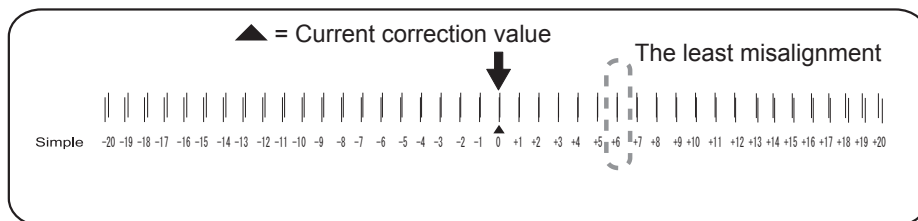
4 

Press **▲** or **▼** to select the correction value.

Press **ENTER** to confirm your entry.

To decide a correction value

Choose the value that produces the least misalignment of the 2 lines. When you cannot choose between two numbers, select a value that is halfway between them.



5 Press **MENU**, then **◀** to go back to the original screen.

Description

This machine prints by the bidirectional mode (in which the print head carriage performs printing during both its outbound pass and return pass). This printing method is called "Bidirectional Printing." Bidirectional printing offers the advantage of being able to shorten printing times, but subtle misalignment occurs during the outbound and return passes. The procedure to correct this and eliminate misalignment is "Bidirectional Correction." This misalignment varies according to the print head height and the thickness of the media, so we recommend performing correction to match the media you are using.

Correcting for Misalignment in Bidirectional Printing More Precisely

When further correction is required, such as when adjustment made using [SIMPLE SETTING] does not enhance printing, use [DETAIL SETTING] to make corrections.

For instructions on how to perform the work, refer to P. 36 "Performing the Initial Adjustment (Correcting for Misalignment in Bidirectional Printing More Precisely)".

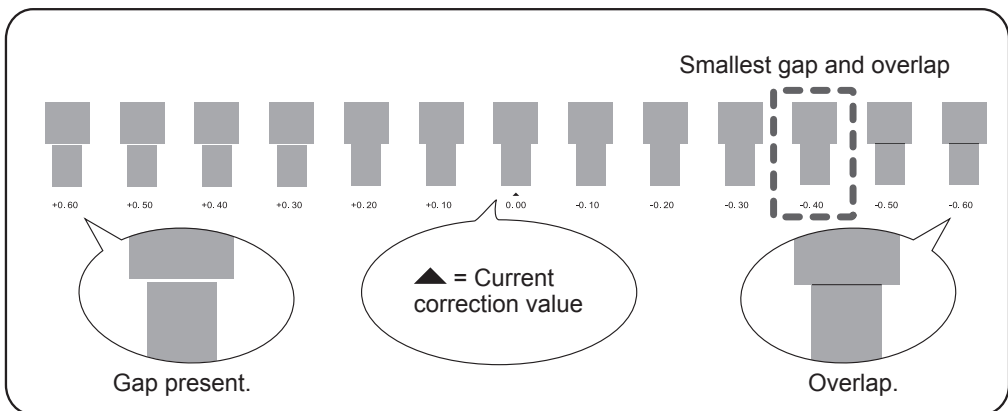
Reducing Horizontal Bands (Feed Correction Function)

Procedure

- 1 If using roll media, check that the media is not sagging.
- 2 Press **MENU**.
- 3  Press **▼** several times to display the screen shown on the left.
Press **▶**.
- 4  Press **ENTER**.
A test pattern is printed.
When printing ends, press **▼**, and then press **▶**.
- 5  Press **▲** or **▼** to select the correction value.
Press **ENTER** to confirm your entry.

To decide a Correction Value

Select the value to make the upper/lower rectangular gap and overlap smallest. When you cannot choose between two numbers, select a value that is halfway between them.



- 6 Press **MENU**, then **◀** to go back to the original screen.

Description

The movement distance of the media changes subtly depending on the media's thickness and the temperature of the dryer. When the movement distance becomes discrepant, horizontal stripes are more likely to occur during printing. We recommend that you make corrections to match the media you are using and the set temperature of the dryer. Repeat the process of printing a test pattern and entering a correction value several times to find the optimal value.

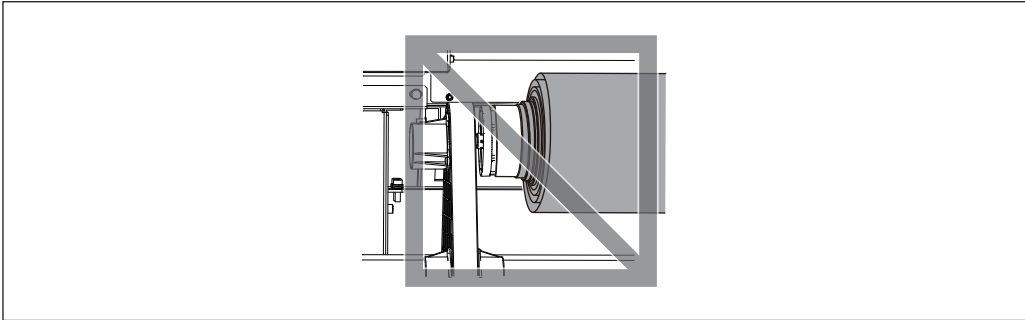
Depending on the software RIP you are using, you can also configure this setting in the software RIP (by, for example, choosing the media type). When you have made the setting in the software RIP, the software RIP's setting is used and the printer's setting is ignored.

Correcting Media Skew

Perform this correction when horizontal stripes cannot be eliminated even after performing the operations in P. 97 "Reducing Horizontal Bands (Feed Correction Function)".

Procedure

- 1 If using roll media, check that the media is not being wound improperly.**
If the media is not wound correctly, fix and re-set the media.



- 2 Set [SHEET TYPE] to "OPAQUE."**

Refer to step **1** in P. 101 "Using Transparent Media" and set the [SHEET TYPE] to "OPAQUE."

- 3 Remove the media clamps.**

- 4 Press** **MENU**.

- 5**

MENU	◀▶
MEDIA ALI.	▶

Press **▼** several times to display the screen shown on the left.

Press **▶**.

- 6**

MEDIA ALI.	◀▶
TEST PRINT	↵

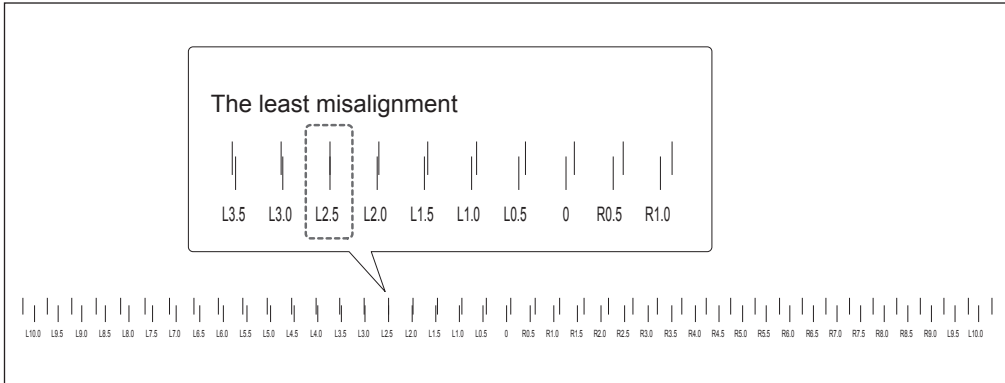
Press **ENTER**.

A test pattern is printed.

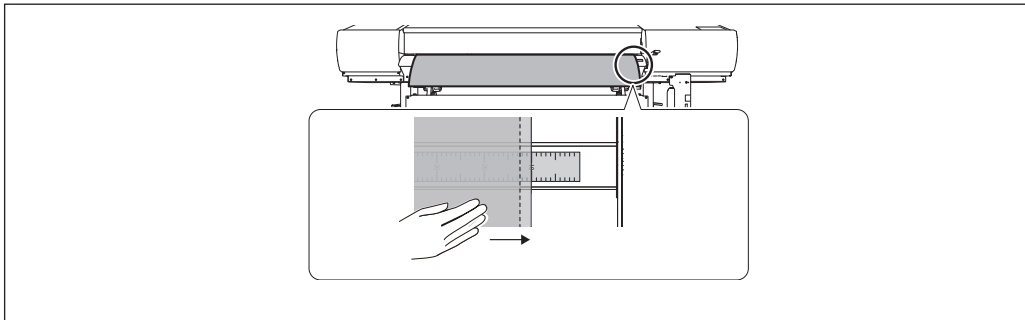
7 Check the test results to determine the correction values.

Choose the value that produces the least misalignment of the 2 lines. When you cannot choose between two numbers, select a value between them.

"R" means "right," and "L" means "left." For example, if the line marked "L2.5" has the least misalignment, this means that there is a 2.5 mm (98.4 mil) misalignment to the left. In this case, the correction value is 2.5 mm (98.4 mil) to the right.

**8 Adjust the position of the media while keeping an eye on the scale on the apron.**

Raise the loading lever and adjust the position of the media based on the values determined from the test print results. Once the position has been decided, lower the loading lever to secure the position of the media.

**9 Repeat from step 4 to 6 once more to check the correction results.**

Adjustment is complete when the two lines align at the "0" position. If the two lines do not align at the "0" position, adjust the position of the media once more.

Description

Even if the media is attached straight, it may drift diagonally through subtle shifts. If the media drifts, horizontal stripes are more likely to occur during printing. This function reduces horizontal bands by correcting the skew of the media.

If the media is 5 mm (196.9 mil) or more to the right from the test pattern printing start location, an error will be generated and the test pattern will not print. Move the media 5 mm (196.9 mil) or more to the left.

Accommodating Different Media Types and Conditions

Adjusting Print Head Height to Match Media Thickness

Procedure

1 Press **MENU**.

2  MENU HEAD HEIGHT

Press  several times to display the screen shown on the left.

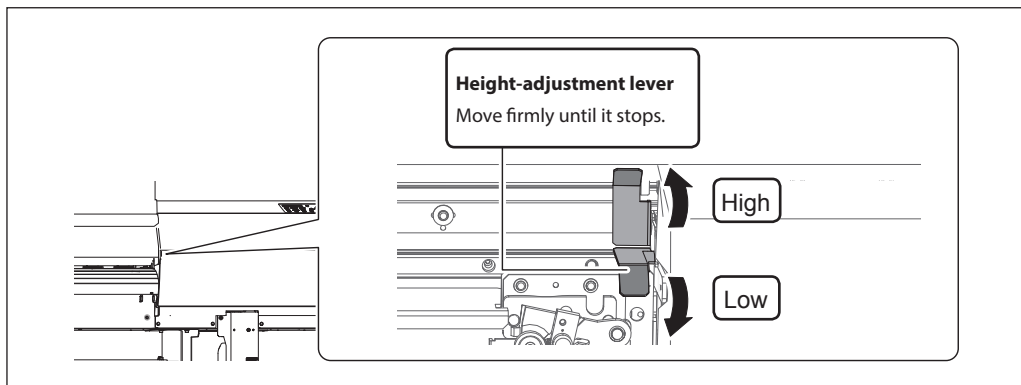
Press .

3  HEAD HEIGHT LOW LOW

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

4 Move the height-adjustment lever to adjust the print-head height.

When the lever is moved to the "High" direction, the buzzer sounds twice. When it is moved to the "Low" direction, the buzzer sounds once.



5  MENU HEAD HEIGHT

Close the front cover.

The print-head carriage moves to the original position, and then the screen shown on the left appears.

6 Press **MENU**, then  to go back to the original screen.

Description

Depending on the media, media may wrinkle or come loose from the platen during printing, increasing the chance of contact with the print heads. When you are using such media, adjust [HEAD HEIGHT] to "HIGH." Printing quality when [HEAD HEIGHT] is set to "HIGH" may be coarser or otherwise lower than when set to "LOW." If this happens, refer to the pages indicated below.

➤ P. 96 "Correcting for Misalignment in Bidirectional Printing", P. 36 "Performing the Initial Adjustment (Correcting for Misalignment in Bidirectional Printing More Precisely)", P. 106 "Preventing Soiling of the Media and Dot Drop-Out"

Using Transparent Media

1. Set the media type to "CLEAR."

① Raise the loading lever.

② Press **MENU**.

③

MENU	↔
SUB MENU	▶

Press **▼** several times to display the screen shown on the left.

Press **▶** twice.

④

SHEET TYPE	↔
CLEAR ▶ OPAQUE	↕

Press **▲** or **▼** to select "CLEAR."

Press **ENTER** to confirm your entry.

2. Set the media width.

①

SUB MENU	↔
SHEET TYPE	▶

Press **◀** to display the screen shown on the left.

Press **▼**.

②

SUB MENU	↔
SHEET WIDTH	▶

Press **▶**.

③

SHEET WIDTH	↔
1625mm ▶ 1200mm	↕

Press **▲** or **▼** to enter the width of the media.

Press **ENTER** to confirm your entry.

④ Press **MENU**, then **◀** to go back to the original screen.

3. Load transparent media on the machine.

Refer to P. 17 "Loading Media", and load the media on the machine.

4. Set the position of the right edge of the media.

① Press **MENU**.

②

MENU	↔
SUB MENU	▶

Press **▼** several times to display the screen shown on the left.

Press **▶**.

③

SUB MENU	↔
SHEET POS.	▶

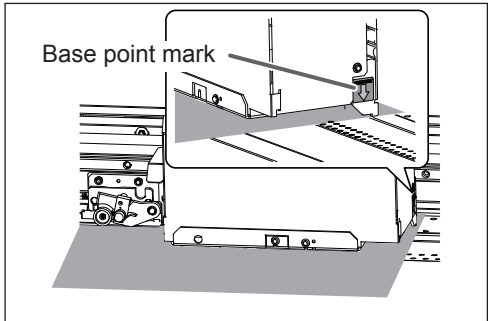
Press **▼** twice to display the screen shown on the left.

Press **▶**.

SHEET POS.	↔
SAVE	↕

The print-head carriage moves to the currently set position, and then the screen shown on the left appears.

4



Press  or  to move the print-head carriage (base point mark) to the right edge of the media.

The position indicated by the arrow of the base point mark is set as the position of the right edge of the media

If a fixed period of time passes while the setting procedure is in progress, the menu is forcefully terminated.

If a fixed period of time passes while the setting procedure is in progress, the menu is forcefully terminated and the print-head carriage returns to the home position to prevent the print heads from drying out. In this case, perform step 4. again.

To quit the procedure for setting the position of the right edge of the media

1 Close the front cover.

2 

Press  to display the screen shown on the left.

3 Press .

The print-head carriage returns to the home position (behind the right cover).

5 After positioning, press  to confirm your entry.

Description

For transparent media, the width and position cannot be automatically detected. Therefore, [SHEET TYPE] must be set to "CLEAR" before the width and attachment position are set manually.

When [SHEET TYPE] is set to "CLEAR," printing does not stop if the media runs out while printing is in progress. If media runs out while printing is in progress, immediately press  to stop printing. Otherwise, there is a chance that the platen or other parts may become soiled by ink or that ink may get inside and damage the machine.

Default Settings

[SHEET TYPE]: OPAQUE

[SHEET WIDTH]: 1,625 mm (64 in.)

Using Hard-to-Dry Media

Procedure

- 1 Press **MENU**.
- 2  Press **▼** several times to display the screen shown on the left.
Press **▶**.
- 3  Press **▼** several times to display the screen shown on the left.
Press **▶**.
- 4  Press **▲** or **▼** to select a value.
Larger values cause the media to move more slowly, enabling you to extend the drying time accordingly.
Press **ENTER** to confirm your entry.
- 5 Press **MENU**, then **◀** to go back to the original screen.

Description

Use this if ink dries poorly even when the dryer is used. Depending on the software RIP you are using, you can also make this setting in the software RIP. When you have made the setting in the software RIP, the printer's setting is ignored.

Default Setting

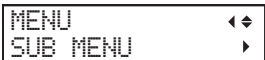
[SCAN INTERVAL]: OFF

4

Advanced
Functions

Using Media That Does Not Move Smoothly

Procedure

- 1 Press **MENU**.
- 2  Press **▼** several times to display the screen shown on the left.
Press **▶**.
- 3  Press **▼** several times to display the screen shown on the left.
Press **▶**.

- 4 Press or to select a value.
Press to confirm your entry.

0%–100%	When the media is flimsy and cannot move smoothly, decreasing this value (reducing the suction force) may resolve the problem.
AUTO	The strongest suction force will always be used.

- 5 Press , then to go back to the original screen.

Description

The platen uses suction to grip the media and keep it stable. The suction force can be adjusted corresponding to the nature and condition of the media. Depending on the software RIP you are using, you can also make this setting in the software RIP. When you have made the setting in the software RIP, the machine's setting is ignored.

Default Setting

[VACUUM POWER]: AUTO

Changing the Range of Print-head Carriage Movement

Procedure

- 1 Press .
- 2 Press several times to display the screen shown on the left.
Press .
- 3 Press several times to display the screen shown on the left.
Press .
- 4 Press or to select a setting.
Press to confirm your entry.

SHEET	"SHEET" matches the range of print head movement to the width of the media.
OFF	"OFF" matches the range of print head movement to the printing data. Movement is limited to the minimum amount necessary, and this can be expected to yield the fastest output. Note, however, that because the speed of media movement is no longer constant, colors may be uneven.
FULL	"FULL" makes the speed of media movement constant at all times and produces the most stable printing result.

- 5 Press , then to go back to the original screen.

Description

Fixing the width that the print-head carriage moves can help reduce uneven colors. When this setting is set to "OFF," the movement of the print-head carriage is minimized. This does save printing time, but because the speed of media movement is no longer constant, colors may be uneven.

Default Setting

[FULL WIDTH S]: FULL

Expanding the Printing Area by Reducing the Margins

Procedure

- 1

Press  .

2

MENU

SUB MENU

◀▶

▶

Press  several times to display the screen shown on the left.

Press  .

3

SUB MENU

SIDE MARGIN

◀▶

▶

Press  several times to display the screen shown on the left.

Press  .

4

SIDE MARGIN

10mm ▶ 5mm

◀▶

↵

Press  or  and select "5mm."

Press  to confirm your entry.

5

Press  , then  to go back to the original screen.

4
Advanced
Functions

Description

This makes the setting for distance from the left or right media clamp to the corresponding left or right edge of the printing area. You can select "5 mm," "10 mm," or "25 mm." Setting this to "5 mm" lets you expand the printing area.

☞ P. 139 "Maximum Printing Area and Margins"

Note, however, that when you are using transparent media, setting this to "5 mm" may result in printing on top of the media clamps.

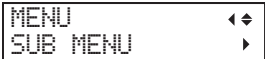
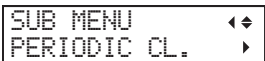
Default Setting

[SIDE MARGIN]: 10 mm

105

Preventing Soiling of the Media and Dot Drop-Out

Procedure

- 1 Press **MENU**.
- 2  Press **▼** several times to display the screen shown on the left.
Press **▶**.
- 3  Press **▼** several times to display the screen shown on the left.
Press **▶**.
- 4  Press **▲** or **▼** to select a setting.
Press **ENTER** to confirm your entry.

NONE	Automatic cleaning is not performed.
PAGE	Automatic cleaning is performed every time before printing starts.
INTERVAL (JOB)	Automatic cleaning is performed when the cumulative printing time reaches the value you set here. However, if this time is reached during printing, automatic cleaning is performed before the next printing operation starts. Because printing is not paused, uneven color issues due to paused operation do not occur.
INTERVAL (TIME)	Automatic cleaning is performed when the cumulative printing time reaches the value you set here. When this time is reached during printing, printing pauses and so colors may be uneven.

- 5 Press **MENU**, then **◀** to go back to the original screen.

Description

In the following cases, ink tends to collect on the surface of the print heads. Under some conditions, this ink may be transferred to the media or cause dot drop-out.

- When you use media prone to static electricity buildup.
- When the ambient temperature is low.
- When the print-head height is set to "HIGH."

If "PAGE," "INTERVAL (JOB)," or "INTERVAL (TIME)" is selected, ink buildup is removed before or during printing. Note, however, that using these settings results in longer printing times.

Default Setting

[PERIODIC CL.]: NONE

Using Sticky Media

Procedure

- 1 Press **MENU**.
- 2

MENU	↕
SUB MENU	▶

 Press **▼** several times to display the screen shown on the left.
Press **▶**.
- 3

SUB MENU	↕
MEDIA RELEASE	▶

 Press **▼** several times to display the screen shown on the left.
Press **▶**.
- 4

MEDIA RELEASE	↕
DISABLE ▶ ENABLE	↕

 Press **▲** or **▼** to select "ENABLE."
Press **ENTER** to confirm your entry.
- 5 Press **MENU**, then **◀** to go back to the original screen.

Description

Some types of media may tend to stick to the platen. Starting printing with the media sticking to the platen may make normal media feed impossible and cause the media to jam. When using such media, set the [MEDIA RELEASE] menu item to "ENABLE." This peels off the media before starting printing if it is stuck to the platen. Note, however, that media feed may be unstable when printing is performed after executing this operation. Leave this menu item set to "DISABLE" unless you specifically need to change it.

Default Setting

[MEDIA RELEASE]: DISABLE

Printing with Crop Marks

Printing with Crop Marks

Use your software RIP to configure the settings for printing crop marks. For information on how to make the settings, refer to the documentation for the software RIP you are using.

IMPORTANT!

Alignment marks and symbols drawn using graphics software cannot be used as crop marks.