SOLJET PRO II V
Sign Maker by Roland DG Corporation

Roland

SC-545EXW
Print&Cut

Be Sure to Read This First

This manual describes important information that you should know before you use the SC-545EXW (white-ink model).

Features

- This machine is a large-format printer capable of printing white ink in addition to four-color (CMYK) inks. This makes it possible to achieve unique expressiveness not possible with conventional printers, such as by printing CMYK colors on white.
- This machine employs proven ECO-SOL inks.
- This machine cannot use light cyan or light magenta inks.

About the User's Manuals for This Machine

- Read this manual along with the SC-545EX User's Manual. The present manual describes the differences between this machine and the SC-545EX (six-color ink model).
- Read this manual first to gain an understanding of the machine's characteristics and important cautions. For other matters, refer to the SC-545EX User's Manual.

Important: Characteristics of White Ink

The usage and handling of white ink involves some important considerations that do not apply to ink of other colors. Be sure to familiarize yourself with the characteristics of white ink before you use it.

White ink settles and separates.

- If it is allowed to stand, the precipitated material may solidify and cause clogging of the print heads or other malfunction. Be sure to observe the cautions in this manual.

Periodic maintenance is necessary and must be performed without fail.

- We recommend operating the printer at least once a week.
- Maintenance must be performed at least once every two weeks, even when the machine is not in use. Allowing it to stand may result in malfunction.
- Maintenance requires four SOL INK cleaning cartridges, so be sure to have these on hand.

Be sure to shake the cartridges before each use.

- Before every printing operation, be sure to remove the white ink cartridges and shake them gently. Failing to do this may result in faint color or cause breakdown.

Drying white ink

- Allow all ink (not just white ink) to dry sufficiently. Note that white ink in particular requires printing at a high density, and so is more difficult to dry than CMYK inks.
- We strongly recommend using a media dryer.

Using white ink out of doors

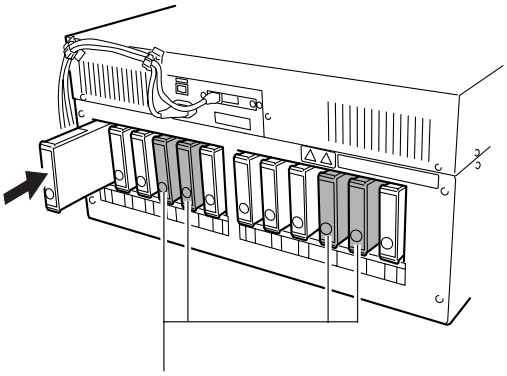
- Depending on conditions, the weatherability of white ink may be inferior to that of CMYK inks. The ink may deteriorate and become powdery, peel or flake off, or smudge. We recommend performing lamination when the white ink is to be used out of doors.

Installing the Ink Cartridges

The procedures for installing ink cartridges for the first time (ink filling) and for replacing cartridges are basically the same as for the SC-545EX (six-color ink model). Note, however, that the following points differ.

➢ When filling ink, make sure the ink type is set to "ECO-SOL KCMYWW."

➢ Install two cartridges each for cyan, magenta, yellow, and black, and four cartridges for white. Shake each cartridge gently before you install it.



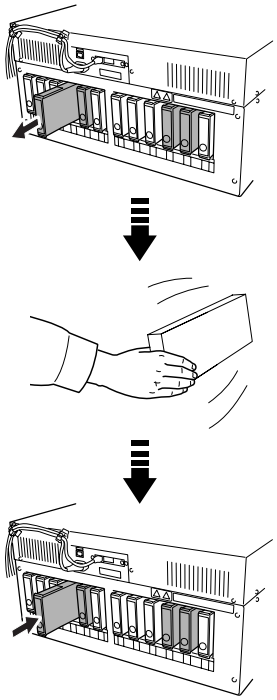
Four white ink cartridges

➢ Never insert a light cyan or light magenta cartridge.
➢ The [INK REMAINING] menu does not correctly display the amount of ink remaining in the white ink cartridges.

Actions That Must be Performed Continuously

What to Do Before Starting Every Printing Operation

➢ Before switching on the power, remove the white ink cartridges, shake them gently, then reinsert them.
➢ Be sure to carry out this operation every time before you start printing.
➢ CMYK ink cartridges do not need to be shaken before every operation, but be sure to shake them when installing new ones.



If a message appears

➢ If this message appears when you switch on the power, be sure to carry out maintenance.

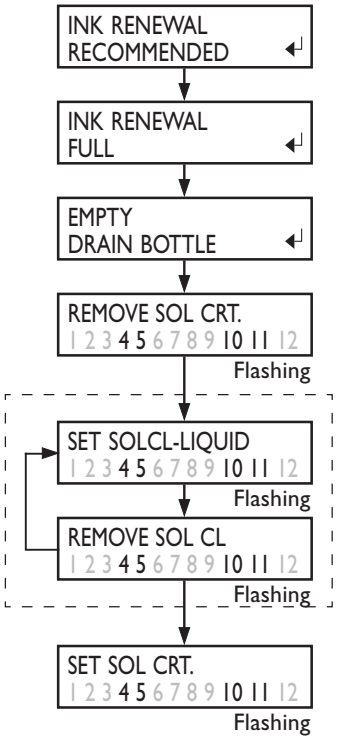
☞ Refer to page 3, "Maintenance Operations."

Periodically switch on the power.

➢ At least once every two weeks, be sure to switch on the power and perform maintenance as instructed by the messages displayed.
➢ We recommend performing printing at intervals no longer than one week.
☞ Refer to page 3, "Maintenance Operations."

Maintenance Operations

Message displayed: [INK RENEWAL FULL]



Press the [ENTER] key.

Press the [ENTER] key.

Empty the drain bottle, then press the [ENTER] key.

Pull out the white ink cartridges.

Insert the cleaning cartridges.

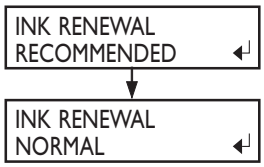
Pull out the cleaning cartridges.
Insert and remove the cleaning cartridges several times, as instructed by the on-screen messages.

Insert the white ink cartridges.

Important
Cleaning cartridges can be used to perform maintenance up to five times.

- ➢ Insert and remove only the white ink cartridges.
- ➢ "Full" maintenance requires four SOL INK cleaning cartridges.
- ➢ Four cleaning cartridges can be used to perform maintenance five times. Never use them more times than that. Doing so may damage the machine.
- ➢ This message appears when two weeks or longer have passed since the last time "full" maintenance was performed. If the printer has been out of use, however, it appears after one week.
- ➢ Pressing the [MENU] key makes the message disappear without performing maintenance. In this case, be sure to go to the [INK CONTROL] menu and select [INK RENEWAL FULL] to perform maintenance. Failure to do this may result in malfunction.

Message displayed: [INK RENEWAL NORMAL]



Press the [ENTER] key.

Press the [ENTER] key.

- ➢ "Normal" maintenance does not require cleaning cartridges.
- ➢ This message appears when 12 hours or longer have passed since the last time maintenance was performed.
- ➢ Pressing the [MENU] key makes the message disappear without performing maintenance. In this case, be sure to go to the [INK CONTROL] menu and select [INK RENEWAL NORMAL] to perform maintenance. Failure to do this may result in malfunction.

When the machine has not been operated for two weeks

- ➢ Switch on the power every two weeks, even if the machine has been out of use. The [INK RENEWAL FULL] message appears, so carry out maintenance as described in the previous section.

Important Notes When Performing Overprinting

What is overprinting?

Overprinting refers to printing a white-ink undercoat first, and then performing CMYK printing on top of the white ink (or vice versa). The procedure may involve first printing only white ink, then returning the media to its original position, and finally performing CMYK printing.

Allow the ink to dry thoroughly.

- ➢ Dry the ink sufficiently before you perform overprinting with the next color. Performing overprinting before the ink has dried enough may make attractive printing impossible or cause problems such as reduced weatherability.
- ➢ Drying time differs according to various conditions, but as a general guide you should use a media dryer and also allow the media to stand for an additional 15 minutes.

Using the middle pinch rollers

- ➢ The middle pinch rollers may smudge the printed surface when the media is pulled back. When you perform overprinting, we recommend securing the media in place using only two pinch rollers (one on the left and one on the right).

Preventing misaligned colors

- ➢ Because the media is pulled back between printing operations, color misalignment occurs between the white printing and the CMYK printing.
- ➢ We recommend that you set the [PREFEED] menu item to [ENABLE]. This can help reduce color misalignment to a minimum.
- ➢ Use the machine in the recommended operating environment. Also, carry out operations in a location having stable temperature and humidity.

Important Notes When Using Transparent Media

Loading transparent media

- ➢ Set the [EDGE DETECTION] menu item to [DISABLE]. Transparent media cannot be loaded unless this setting is made.

Important notes on the amount of media remaining

- ➢ When you use transparent media, the presence of media cannot be detected. In such cases, printing operation does not stop when the media runs out, and there is a chance that the platen or the like may become soiled by ink or that ink may get inside and damage the machine.
- ➢ If media runs out while printing is in progress, immediately press the [PAUSE] key to quit printing.

Using the middle pinch rollers

- ➢ The pinch rollers damage media slightly, and on transparent media this damage can be very noticeable. If such damage is a concern, we recommend securing the media in place using only two pinch rollers (one on the left and one on the right).

Automatic crop-mark detection

- ➢ Automatic crop-mark detection may not be possible for some media, such as transparent media. In such cases, perform alignment manually.

Important Notes When Using the Media Take-up Unit

- ➢ The automatic media take-up unit can be used only in CMYK printing.
- ➢ Set the [FEED FOR DRY] menu item to [DISABLE].
- ➢ Set the [PREFEED] menu item to [DISABLE].
- ➢ Be sure to refer to the documentation for the take-up unit and make the other settings as well.

The [FEED FOR DRY] menu item is a feature for a media dryer. It prevents uneven drying by feeding the trailing edge of the printed media to a dryer after printing has finished. Note, however, that because media take-up is also performed, this menu item must be set to [DISABLE] when the take-up unit is used.

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R1-050507