

TrueVIS

VG-640 VG-540 SG-540 SG-300

TR2 Ink Switching Method



TR

TR2

About this Manual

This manual explains how to switch the ink being used from **TR ink** to **TR2 ink**.*

To prevent the ink from mixing, perform operations according to the procedures given in this manual.

* Colors with TR2 ink differ from those with TR ink.

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Preparation before Operations

Writing a Memo with the Software RIP Settings

IMPORTANT: When using VersaWorks 6

Before switching to TR2 ink, write down the printer's IP address and other settings such as "Quality."

After switching the ink, VersaWorks 6 must be updated to a version that supports TR2 ink. After the update, because the printer that has been switched to TR2 ink will be connected as a new printer, the previous job data and settings will be deleted. Writing a memo with the settings will make it easier to carry over the previously used configuration.

IMPORTANT: When using Roland VersaWorks Dual

Upgrade VersaWorks 6 to a version that supports TR2 ink. Roland VersaWorks Dual does not support TR2 ink.

For upgrade information, visit our "TrueVIS VG Series Free Upgrade" website (https://truevis.rolanddg.com/tr2/download_en.html)

Switching the Ink

Step 1: Switching to TR2 Ink

This procedure takes about 1 hour and 30 minutes to complete (not including firmware update).

Items required

- New TR2 ink pouches (each color)
- New TR2 cleaning liquid pouch (1)

IMPORTANT

Important notes on this procedure

- This procedure explains how to switch from TR cleaning liquid to TR2 cleaning liquid. Follow the procedure in this manual and be sure to switch to TR2 cleaning liquid.
- If TR cleaning liquid is used by mistake, the printer will not be able to detect the liquid. Check the labels on the cartridge carefully and switch only to TR2 cleaning liquid in this procedure.
- After switching to TR2 cleaning liquid, do not use TR cleaning liquid. Using TR cleaning liquid will damage the print heads.
- The procedure includes actions that must be followed in order. Be sure to follow the instructions exactly.

IMPORTANT

When the procedure is interrupted mid-way

If the power is turned off for any reason during the procedure, **be sure to wait at least 10 minutes before turning the power back on.** Turning the power on before 10 minutes have passed may damage the printer and make recovery difficult.

WARNING

Never place discharged fluid or ink near an open flame.
Doing so may cause fire.

CAUTION

To store discharged fluid temporarily, place it in the included drain bottle or in a durable sealed container such as a metal can or polyethylene tank, and cap the container tightly.
Any spillage or vapor leakage may cause fire, odor, or physical distress.

CAUTION

Before you detach the drain bottle, be sure to wait for the screen to display "EMPTY DRAIN BOTTLE." After discarding the discharged fluid, promptly attach the drain bottle to the machine.
Failing to follow this procedure may cause discharged fluid to flow out of the tube and spill, soiling your hands or the floor.

CAUTION

When [EMPTY DRAIN BOTTLE] is displayed on the screen, be sure to discard the discharged fluid.
Continuing without discarding the discharged fluid may cause the fluid to overflow, soiling your hands or the floor.

IMPORTANT

Dispose of discharged fluid properly, in accordance with the laws in effect in your locale.

Discharged fluid is flammable and contains toxic ingredients. Never attempt to incinerate discharged fluid or discard it with ordinary trash. Also, do not dispose of it in sewer systems, rivers, or streams. Doing so may have an adverse impact on the environment.

Switching the Ink

1. Prepare to switch the ink.

1 Press the sub power button.

The following screen may appear, but when you turn on the sub power, the screen will change to that displayed in step 2.

```
PRESS THE POWER  
KEY TO CLEAN
```

2 When the following screen appears, press [◀] or [▶] to select [YES].

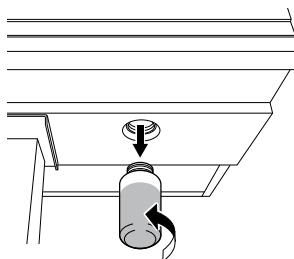
```
CHANGE INKSET?◀▶  
[YES] NO ↵
```

3 Press [ENTER] to confirm your entry.

If you select [NO], the power will be turned off. If you select [NO] by mistake, turn the sub power back on.

4 When the screen shown below appears, remove the drain bottle and discard the discharged fluid.

```
EMPTY  
DRAIN BOTTLE ↵
```



IMPORTANT

When you remove the drain bottle, a few drops of discharged fluid may come out of the machine. Exercise caution to prevent this fluid from soiling your hands or the floor.

5 Install the drain bottle.

6 Press [ENTER].

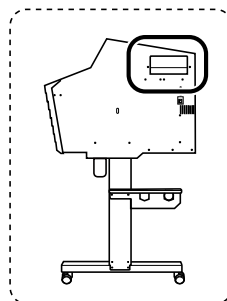
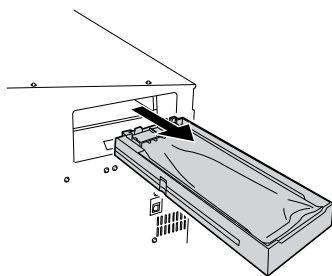
If cleaning is required at this point, the screen shown below appears, and then cleaning starts. The (approximate) remaining time for the procedure is displayed on the screen. (Hereafter, the approximate remaining time is displayed on the screens for procedures that require time such as cleaning and ink or cleaning liquid filling.)

```
CLEANING...  
>> 01:40
```

If this screen is not displayed, proceed to the next step.

- 7** When the screen shown below appears, remove the pouch tray from the cleaning liquid slot.

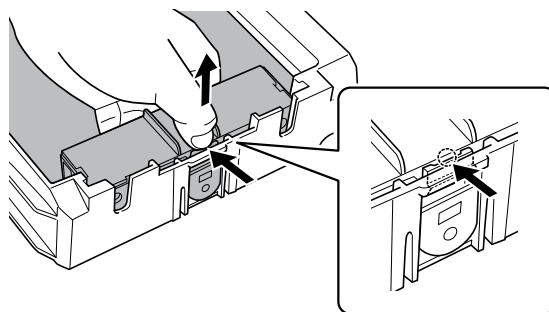
REMOVE CL-LIQUID
FOR WIPER



The figure shows the VG series printer.

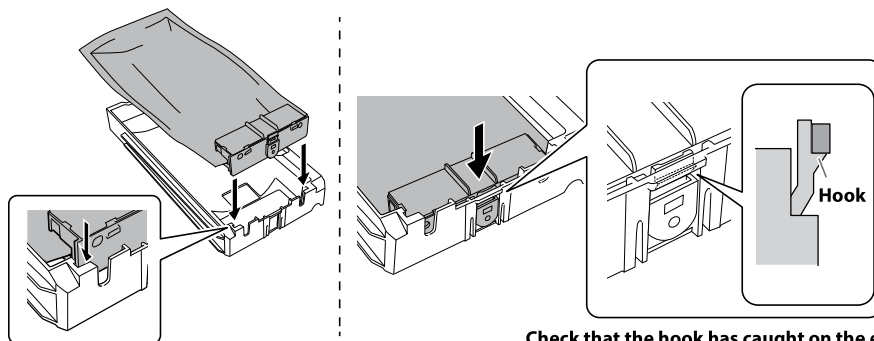
2. Switch from TR cleaning liquid to TR2 cleaning liquid.

- 1** Remove the TR cleaning liquid pouch from the pouch tray.



- 2** Attach the TR2 cleaning liquid pouch to the pouch tray.

Be sure to attach the TR2 cleaning liquid pouch. Using the wrong cleaning liquid will damage the print heads.



Check that the hook has caught on the edge.

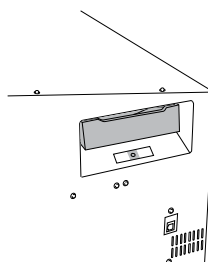
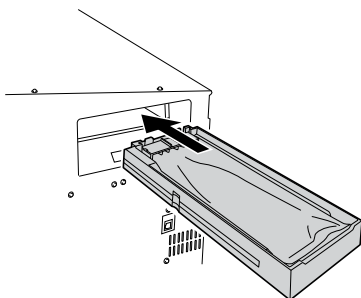
- 3** Press [ENTER].

Switching the Ink

- 4** When the screen shown below appears, set the pouch tray in which you have attached the TR2 cleaning liquid pouch in the cleaning liquid slot.

Insert the pouch tray as far as it will go.

SET
TR2-CL-LIQUID ↵



The figure shows the VG series printer.

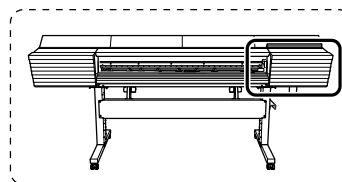
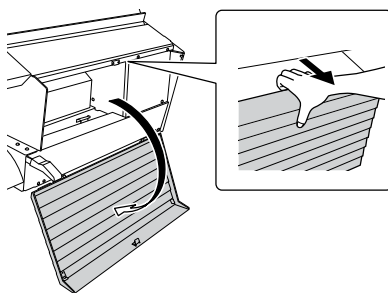
- 5** Press [ENTER].

The screen shown below appears, and then the machine will begin filling with TR2 cleaning liquid.

FILLING LIQUID
> 00:40

- 6** When the following screen is displayed, open the right cover.

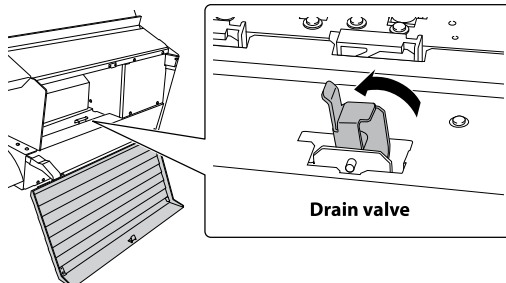
OPEN COVER R



The figure shows the VG series printer.

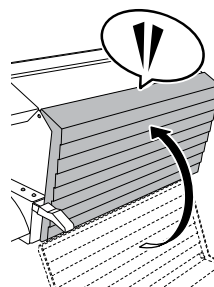
- 7** When the following screen is displayed, open the drain valve.

OPEN
WASTE VALVE



- 8** When the following screen is displayed, close the right cover.

CLOSE COVER R



When the right cover is closed, the cleaning liquid in the tray is drained.

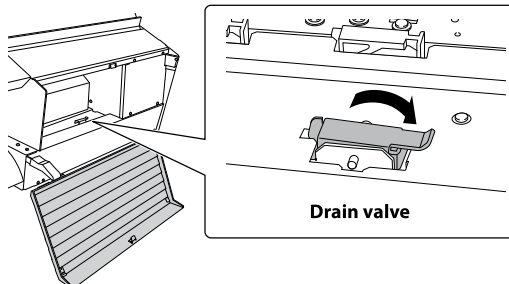
DRAIN TRAY
> 02:30

- 9** When the following screen is displayed, open the right cover.

OPEN COVER R

- 10** When the following screen is displayed, close the drain valve.

CLOSE
WASTE VALVE



- 11** When the following screen is displayed, close the right cover.

CLOSE COVER R

When the right cover is closed, the machine will begin filling with TR2 cleaning liquid, and cleaning will start.

FILLING LIQUID
> 03:00

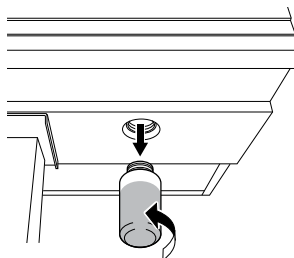
If the cleaning liquid runs out during filling, the screen shown below appears. Replace the TR2 cleaning liquid. Filling will resume after the TR2 cleaning liquid is replaced.

CHANGE CL-LIQUID
FOR WIPER

Switching the Ink

- 12** When the screen shown below appears, remove the drain bottle and discard the discharged fluid.

EMPTY
DRAIN BOTTLE ↵



- 13** Install the drain bottle.

- 14** Press [ENTER].

Ink discharge preparation starts.

- 15** When the screen shown below appears, remove the pouch tray from the ink slot whose number is flashing.

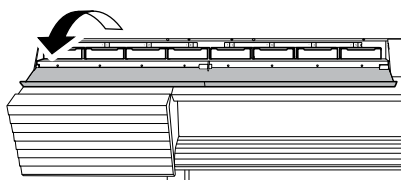
When the pouch tray is removed, the TR ink discharge starts (time required: about 50 minutes).

VG series:

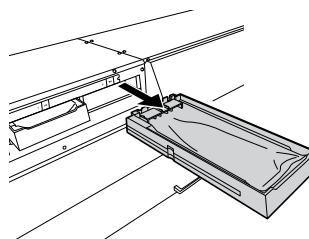
SG series:

REMOVE CARTRIDGE
12345678

REMOVE CARTRIDGE
1234



The figure shows the VG series printer.

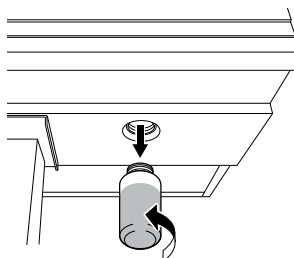


The screen shown below appears during TR ink discharge.

PUMPING-UP...
> 51:46

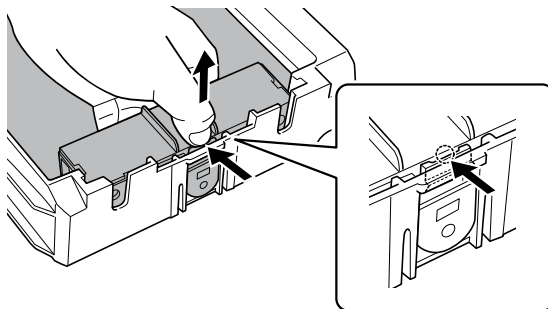
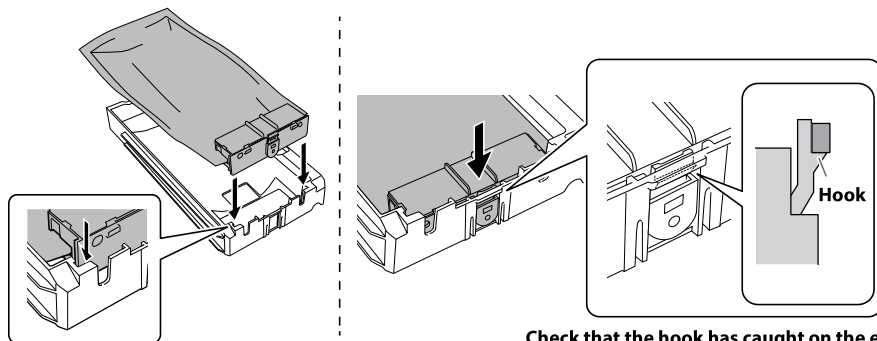
- 16** When the screen shown below appears, remove the drain bottle and discard the discharged fluid.

EMPTY
DRAIN BOTTLE ↵



17 Press [ENTER].

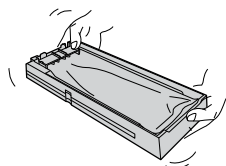
TR2 ink filling preparation starts.

3. Switch from TR ink to TR2 ink.**1 Remove the TR ink pouch from the pouch tray.****2 Set the new TR2 ink pouch in the pouch tray.**

Check that the hook has caught on the edge.

3 Grasp the pouch tray and gently shake the new TR2 ink pouch.

Gently shake the ink pouch to mix its contents.



Switching the Ink

- 4** When the screen shown below appears, insert the pouch tray into the ink slot whose number is flashing.

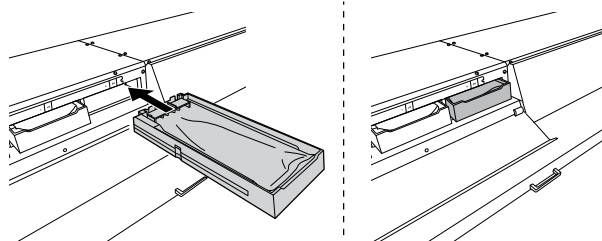
When the pouch tray is inserted, the TR2 ink filling starts (time required: about 20 minutes).

VG series:

SET CARTRIDGE
12345678

SG series:

SET CARTRIDGE
1234



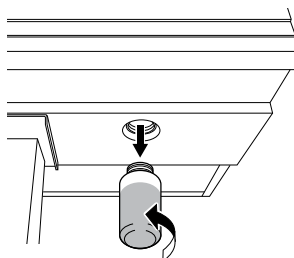
The screen shown below appears during TR2 ink filling.

FILLING INK...
19:50

If a pouch tray is inserted with a TR ink pouch set by mistake, an error message that says "WRONG CARTRIDGE" will be displayed, and the following actions will not be possible. Set the TR2 ink pouch in the pouch tray again.

- 5** When the screen shown below appears, remove the drain bottle and discard the discharged fluid.

EMPTY
DRAIN BOTTLE ↵



- 6** Press [ENTER].

When the following screen is displayed, the ink switch is finished.

SETUP SHEET

Step 2: Cleaning the Periphery of the Print Heads (Manual Cleaning)

Items required

- TR2 cleaning liquid (bottle)
- Cleaning sticks

IMPORTANT

Important notes on this procedure

- Be sure to use TR2 cleaning liquid. Using TR cleaning liquid will damage the print heads.
- Before attempting this operation, remove any media.
- To prevent the print heads from drying out, finish this procedure in 30 minutes or less. A warning beep sounds after 30 minutes.
- Never use any implements other than the included cleaning sticks. Cotton swabs or other lint-producing items may damage the print heads. If you use up the cleaning sticks, purchase new ones from your authorized Roland DG Corporation dealer.
- Use one cleaning stick per cleaning session, and then discard the stick after use. Reusing cleaning sticks may reduce print quality.
- Do not put a cleaning stick that has been used for cleaning into the cleaning liquid. Doing so will deteriorate the cleaning liquid.
- Never rub the nozzle surface of the print heads.

If a warning beep sounds during cleaning

A warning beep sounds 30 minutes after operation starts. Temporarily stop work, and then close the left, right, and front covers.

Press [ENTER] to end the manual cleaning mode. After that, restart the procedure from the beginning.

CAUTION

Be sure to perform operations as specified by the instructions, and never touch any area not specified in the instructions.
Sudden movement of the machine may cause injury.

The procedure is different from that before switching the ink. Read this manual carefully and follow the procedure correctly to perform cleaning.

1. Clean the print head caps.

- 1 Remove any media.
- 2 Press [FUNCTION].
- 3 Press [▶] once, and then press [▼] several times to display the screen shown below.



Switching the Ink

4 Press [ENTER].

After "NOW PROCESSING.." is displayed, the screen shown below appears.

Also, the print head moves to the left end of the platen.

FINISHED?
↵

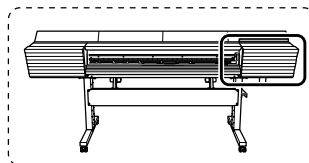
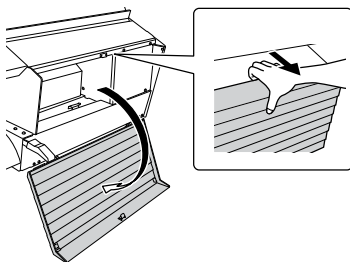
IMPORTANT

Do not press [ENTER] at this stage. Press [ENTER] after cleaning is complete. If you press [ENTER] at this stage, wait for the screen to change as shown in the following figure, and then press [ENTER] again.

CLEANING...
>> 01:45

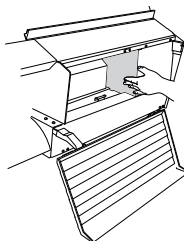
CLEANING ◀▶
MANUAL CL. ↵

5 Open the right cover.



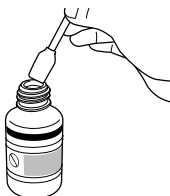
The figure shows the VG series printer.

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



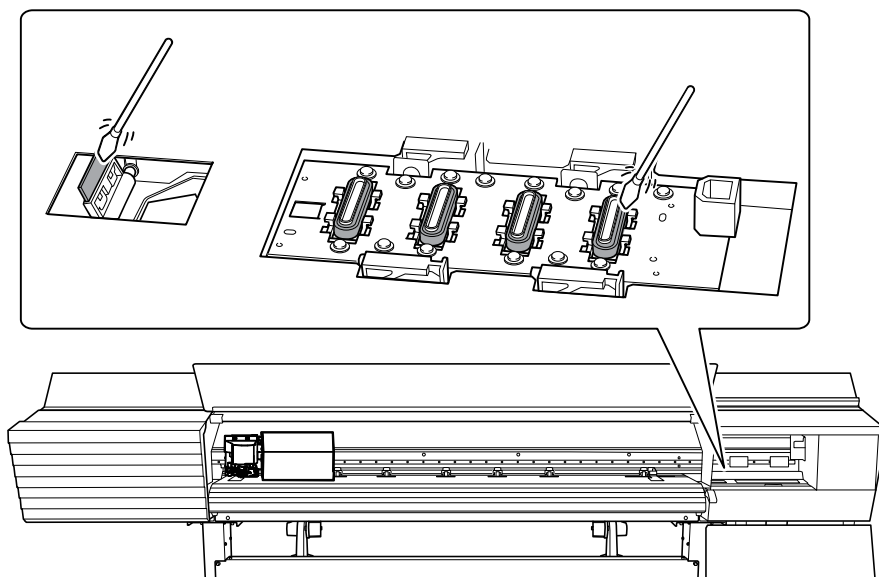
7 Moisten the cleaning stick with TR2 cleaning liquid.**IMPORTANT**

- Be sure to use TR2 cleaning liquid. Using TR cleaning liquid will damage the print heads.
- Be sure to use one of the included cleaning sticks.

**8** Clean the locations shown in the following figure.

Be especially careful to clean away any fibrous dust (lint).

Area to clean



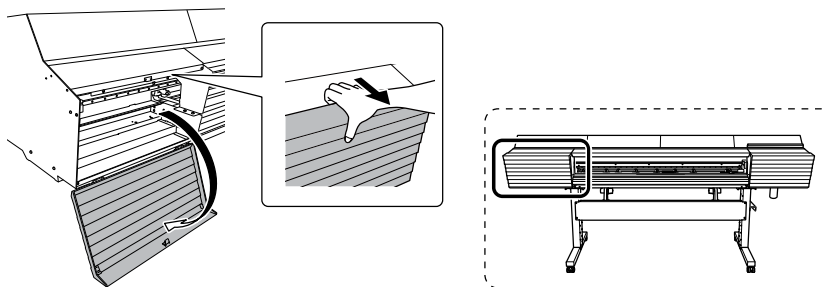
The figure shows the VG series printer.

9 When you have finished cleaning, close the right cover.

2. Clean the print heads.

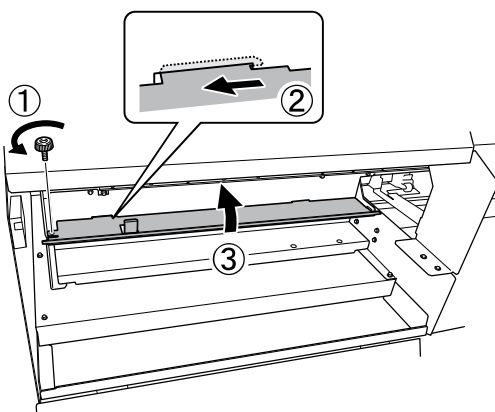
① Open the front cover.

② Open the left cover.

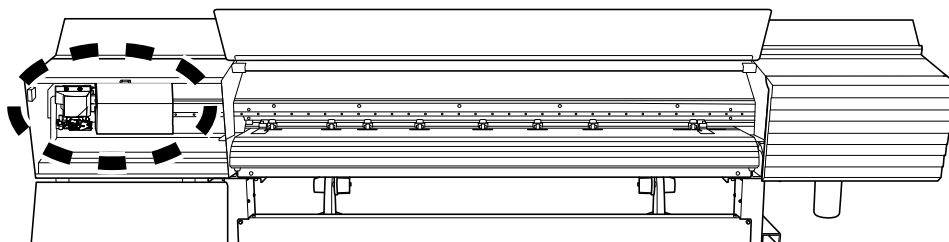


The figure shows the VG series printer.

③ Remove the cut rail.



④ Move the print-head carriage to the position where the cut rail was present.



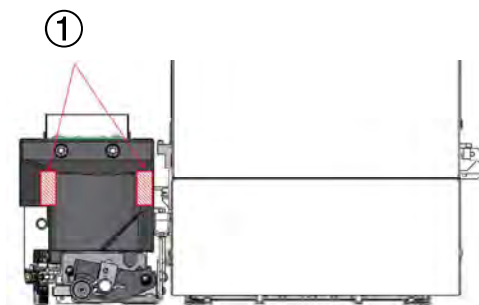
The figure shows the VG series printer.

Move it by holding the positions indicated with ① in the following figure.

⚠ CAUTION

When moving the print-head carriage by hand, be sure to hold the specified position.

Moving it by holding positions other than that specified may deform and damage the cover.



①: Position to hold with your hand

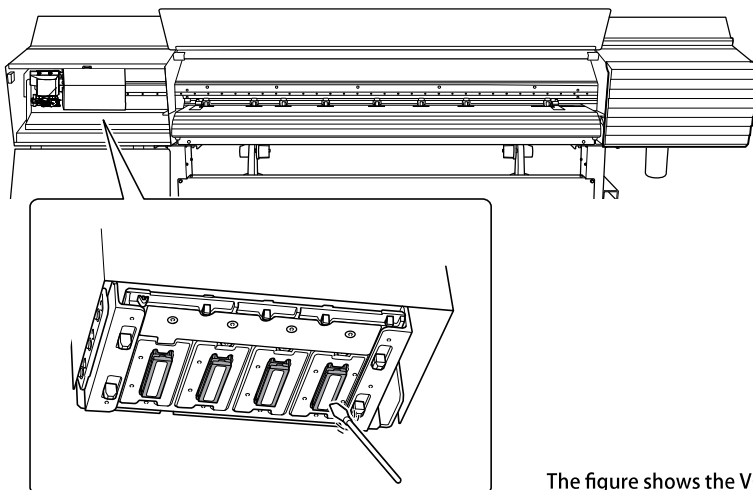
5 Moisten the cleaning stick with TR2 cleaning liquid.

IMPORTANT

- Be sure to use TR2 cleaning liquid. Using TR cleaning liquid will damage the print heads.
- Be sure to use one of the included cleaning sticks.

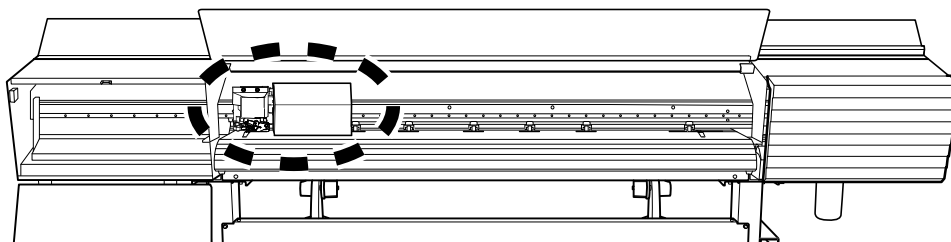
6 Clean the locations shown in the following figure.

Be especially careful to clean away any fibrous dust (lint).



The figure shows the VG series printer.

7 When you have finished cleaning, move the print-head carriage to above the platen.



The figure shows the VG series printer.

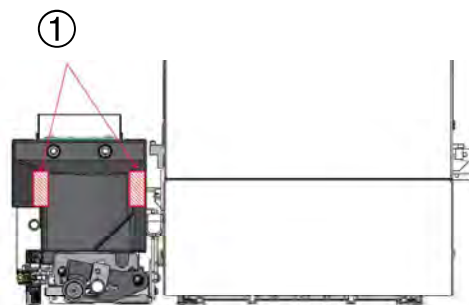
Switching the Ink

Move it by holding the positions indicated with ① in the following figure.

⚠ CAUTION

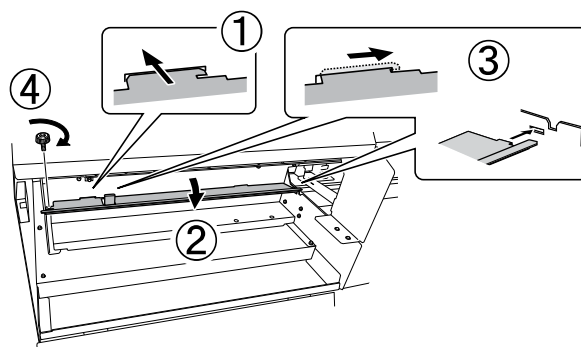
When moving the print-head carriage by hand, be sure to hold the specified position.

Moving it by holding positions other than that specified may deform and damage the cover.



①: Position to hold with your hand

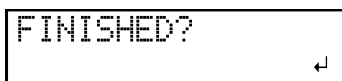
8 Attach the cut rail.



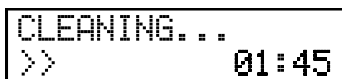
9 Close the left cover.

10 Close the front cover.

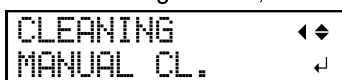
11 Press [ENTER].



The screen shown below appears, and then cleaning starts. The (approximate) remaining time for the procedure is displayed on the screen.



When cleaning finishes, the screen shown below appears again.



12 Press [FUNCTION] to go back to the original screen.


Step 3: Accurately Adjusting the Misalignment of the Ink Landing Position

This adjusts the misalignment of the ink landing position. Prior to the firmware being updated, this work was called "bidirectional correction." There have not been any major changes to the procedure, but the names of the menu items on the screen have changed, and the test pattern has also been changed slightly.

IMPORTANT


The adjustment value changes when the ink is switched, so it is necessary to adjust the misalignment again. Be sure to carry out this operation.

Procedure

- 1 Press [MENU].
- 2 Press [▼] several times to display the screen shown below.



```

MENU          ◀▶
MEDIA GAP ADJ. ▶

```
- 3 Press [▶], then [▲] to display the screen shown below.


```

MEDIA GAP ADJ. ◀▶
DETAIL SETTING ▶

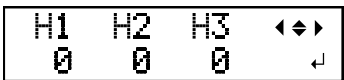
```
- 4 Press [▶] to display the screen shown below.


```

DETAIL SETTING ◀▶
TEST PRINT      ↵

```
- 5 Press [ENTER].
 Printing of the test pattern starts.
- 6 When printing is finished, press [▼], then [▶] to display the screen shown below.

VG series:




```

H1  H2  H3  ◀▶
0   0   0   ↵

```

SG series:



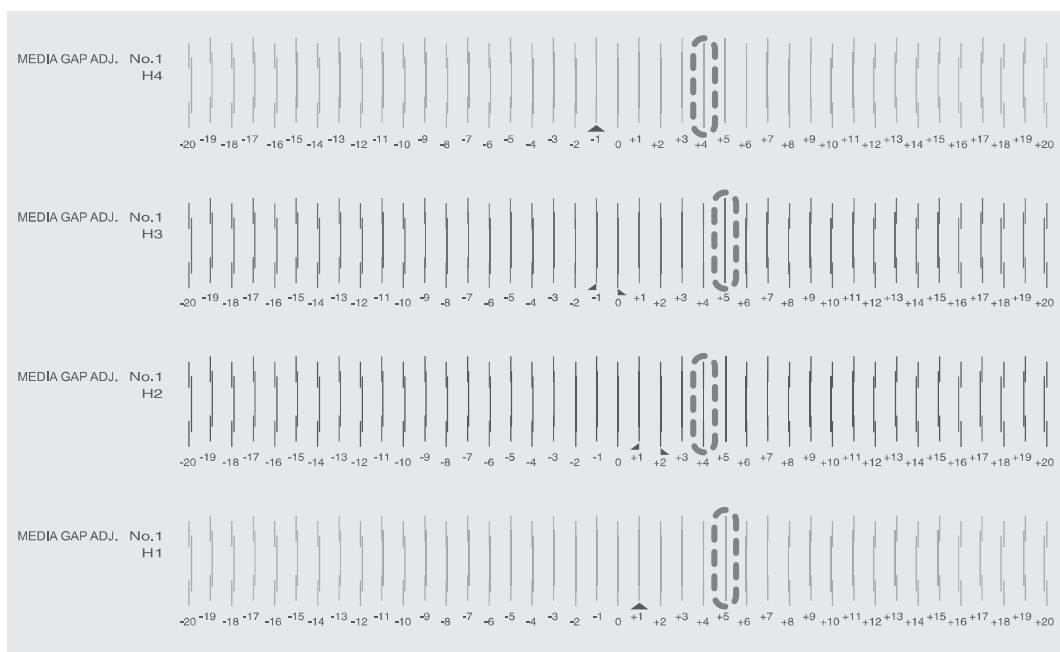
```

H1  H2  ◀▶
0   0   ↵

```

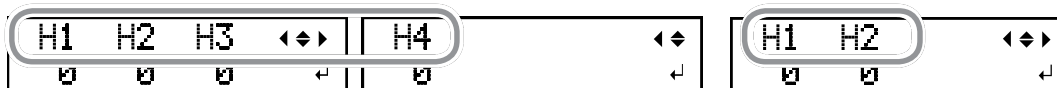
- 7 View the printed test pattern, and then determine the correction values from "MEDIA GAP ADJ. NO.1 H1" to "MEDIA GAP ADJ. NO.1 H4" or the "MEDIA GAP ADJ. NO.1 H1" and "MEDIA GAP ADJ. NO.1 H2" correction values.

Select the value that gives the least misalignment between the two lines. In the case of the following figure, select "+5" for H1 and H3 and "+4" for H2 and H4. When you cannot choose between two sequential numbers, select a value that is between them (you can set correction values in units of "0.5"). The following figure shows the VG series test pattern.



- 8 Set the correction values.

- ① Press [◀] or [▶] to select a value from H1 to H4 or from H1 and H2.
- ② Press [▲] or [▼] to select the correction value.

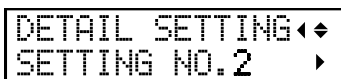


- ③ When you have finished setting the correction values, press [ENTER].

The screen shown below appears again.



- 9 Press [▼] to display the screen shown below.



- 10 Set the correction values from "MEDIA GAP ADJ. NO.2 H1" to "MEDIA GAP ADJ. NO.2 H4" or the "MEDIA GAP ADJ. NO.1 H1" and "MEDIA GAP ADJ. NO.1 H2" correction values in the same manner as step 8.

- 11 Press [▼] to display the screen shown below.



- 12 Press [ENTER].

Printing of the test pattern starts.

- 13 Check the test pattern to see whether the correction was successful.

For all the correction values, check that the misalignment is minimized for the two vertical lines indicated by "▲" (that is, the current correction value). If the misalignment is smaller for another set of vertical lines, set the correction value again.

- 14 When you have successfully performed the correction, press [MENU] to go back to the original screen.

Step 4: Reconnecting the Printer to VersaWorks 6

When using VersaWorks 6

Update VersaWorks 6 to a version that supports TR2 ink. It will not be possible to connect to the printer with older versions.

The work to perform after updating VersaWorks 6 varies depending on the type of printer that has been registered as the assigned printer for VersaWorks.

Printer model	Work to perform after updating the software
VG-640/VG-540/ SG-540/SG-300 only (Combinations permitted)	<ul style="list-style-type: none"> Initialize VersaWorks 6, which you have updated. After initializing VersaWorks 6, connect the printer to it. (See P. 21.) <p>For information on initialization, see the "User's Manual/Basic Knowledge of VersaWorks/Initializing VersaWorks" (https://webmanual.rolanddg.com/VersaWorks6).</p>
VG-640/VG-540/ SG-540/SG-300 + other model	Temporarily delete the VG-640/VG-540/SG-540/SG-300 that has been switched to TR2 ink from VersaWorks 6, and then reconnect this VG-640/VG-540/SG-540/SG-300 to VersaWorks 6. (See P. 20 and P. 21.)

When using Roland VersaWorks Dual

Upgrade VersaWorks 6 to a version that supports TR2 ink. Roland VersaWorks Dual does not support TR2 ink.

The work to perform after updating VersaWorks 6 varies depending on the type of printer that has been registered as the assigned printer for VersaWorks.

Printer model	Work to perform after updating the software
VG-640/VG-540/ SG-540/SG-300 only (Combinations permitted)	Connect the printer to VersaWorks 6. (See P. 21.)
VG-640/VG-540/ SG-540/SG-300 + other model	<ul style="list-style-type: none"> Use the migration tool to migrate the data to VersaWorks 6. After migrating the data, temporarily delete the VG-640/VG-540/SG-540/SG-300 that has been switched to TR2 ink from VersaWorks 6, and then reconnect this VG-640/VG-540/SG-540/SG-300 to VersaWorks 6. (See P. 20 and P. 21.)

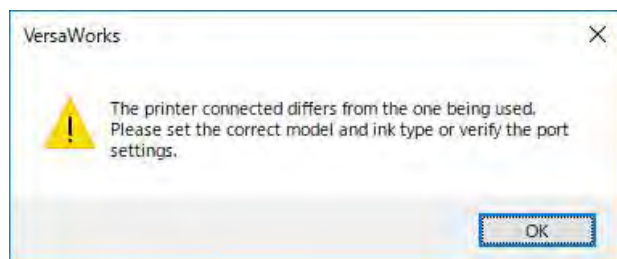
* For information on updating to, upgrading to, and migrating data to VersaWorks 6 that supports TR2 ink, visit our "TrueVIS VG Series Free Upgrade" website (https://truevis.rolanddg.com/tr2/download_en.html).

Switching the Ink

1. Temporarily delete the printer that has been switched to TR2 ink from VersaWorks 6.

1 Start the updated version of VersaWorks 6 capable of supporting TR2 ink.

2 When the screen shown in the figure is displayed, click [OK].



3 From the menu bar, select [Printer] - [Printer Settings] to display the [Printer Settings] screen.

IMPORTANT!

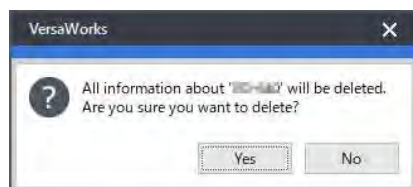
Did you record the VersaWorks 6 settings?

When you proceed to the next step, the previous job data and settings will be deleted. To carry over the previously used configuration, it is necessary to write a memo with the printer's IP address and other settings such as "Quality." If you have not written a memo with the settings, close the [Printer Settings] window and write such a memo. Afterward, restart VersaWorks 6 and start over from the beginning.

4 Select a printer that has been switched to TR2 ink in the [Printer List], and then click . "Ink Type" is the original ink type.



5 When the screen shown in the figure appears, confirm that you want to delete the selected printer, and then click [Yes].

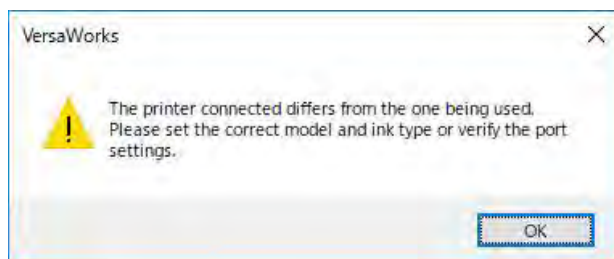


The selected printer is deleted from the [Printer List].

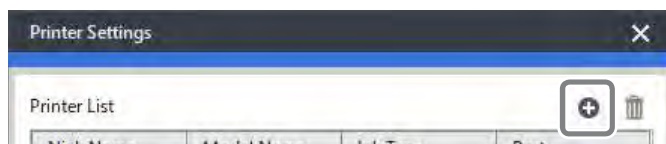
6 If there are multiple printers that have been switched to TR2 ink, delete all the target printers by repeating steps 4 and 5.

2. Connect the printer that has been switched to TR2 ink to VersaWorks 6.

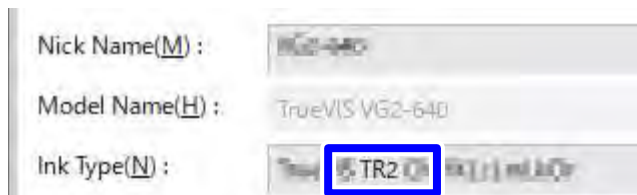
- 1 Start the version of VersaWorks 6 that supports TR2 ink.
- 2 When the screen shown in the figure is displayed, click [OK].



- 3 From the menu bar, select [Printer] - [Printer Settings] to display the [Printer Settings] screen.
- 4 Click +.



- 5 Select "TCP/IP" and enter the IP address of the printer that has been switched to TR2 ink.
- 6 Click [Verify].
- 7 Check that [Ink Type] is TR2 ink.



This indicates that you have successfully reconnected to a printer that has been switched to TR2 ink.

- 8 Set the [Nick Name].
If you do not set a nickname, the model name is displayed.
- 9 Click [Apply].
- 10 When the message "Do you want to install the printer driver?" is displayed, click [Yes].
This message does not indicate the printer driver to use in communication.

Switching the Ink

11 When the [User Account Control] window appears, click [Yes] (or [Allow]).

12 When the [Add Printer Wizard] window appears, click [Next].

The information of the connected printer appears in the [Printer List].

13 If there are multiple printers that have been switched to TR2 ink, click .

Repeat steps **5** through **12** to reconnect to the printers that have been switched to TR2 ink.

14 Click [OK].

This completes the procedure for connecting the printers to VersaWorks 6. If you want to carry over to VersaWorks 6 the configuration from before switching the ink, change the settings to match the details that you wrote in the memo in advance.

