

BY-20

Manual for Switching to S-PG2 Ink

Contents

Contents.....	1
Overview	2
Introduction.....	2
Checks before Operations	3
Items required.....	3
Switching to S-PG2 Ink.....	4
Step 1: Updating the Firmware.....	4
Step 2: Performing a Nozzle Drop-out Test.....	5
Step 3: Replacing the Drain Pack.....	7
Step 4: Performing Ink Draining and Refilling with S-PG2 Ink.....	7
Step 5: Replacing Parts for Maintenance	8
Step 6: Performing a Nozzle Drop-out Test.....	9
Step 7: Viewing System Information	11
Step 8: Registering the VersaWorks Model Again	12

Overview

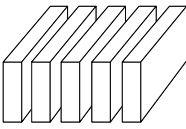
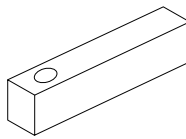


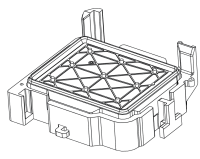
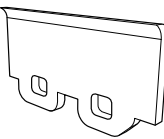
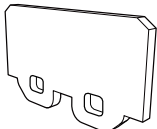
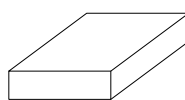
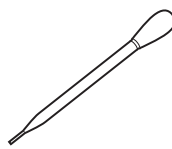

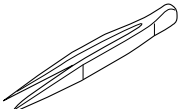

Introduction

Thank you very much for purchasing the Roland BY-20. This manual explains the procedure for replacing the S-PG ink currently used in the BY-20 with S-PG2 ink.

If you cannot carry out work according to the procedures in this manual or if unexpected problems occur during work, contact your authorized dealer.

Checks before Operations

Items required

 <p>S-PG2 ink cartridges</p>	 <p>Drain pack</p>	 <p>Cleaning sticks</p>	 <p>S-PG2-CL cleaning liquid</p>	 <p>Cap top</p>
 <p>Wiper</p>	 <p>Felt wiper</p>	 <p>Wiper pad</p>	 <p>Dropper</p>	 <p>Gloves</p>
 <p>Tweezers</p>	 <p>Protective eyewear</p>			

Switching to S-PG2 Ink

Step 1: Updating the Firmware

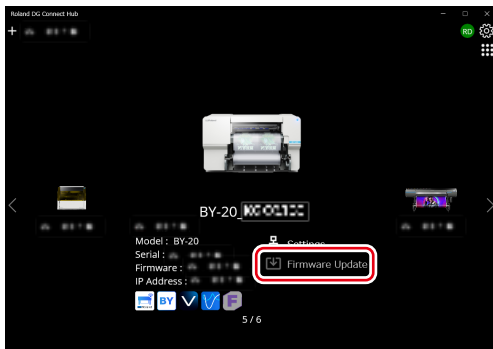
The firmware must be updated only when switching to S-PG2 ink.

CAUTION

Updating the firmware when continuing to use S-PG ink may cause a malfunction or failure. If the firmware is updated accidentally while still using S-PG ink, contact your authorized dealer.

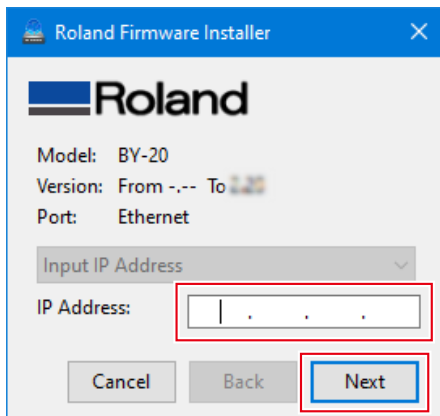
Procedure

- 1 Start [Roland DG Connect Hub].
- 2 In the main window, select the machine to use.
- 3 Click [Firmware Update].



- 4 Click [Update].
- 5 Download the BYFirm.zip file to the desired location.
- 6 Extract the files from BYFirm.zip.
- 7 Run BYFirm3***.exe in the BYFirm folder.
- 8 Enter the IP address and click [Next].



The new firmware will be installed.

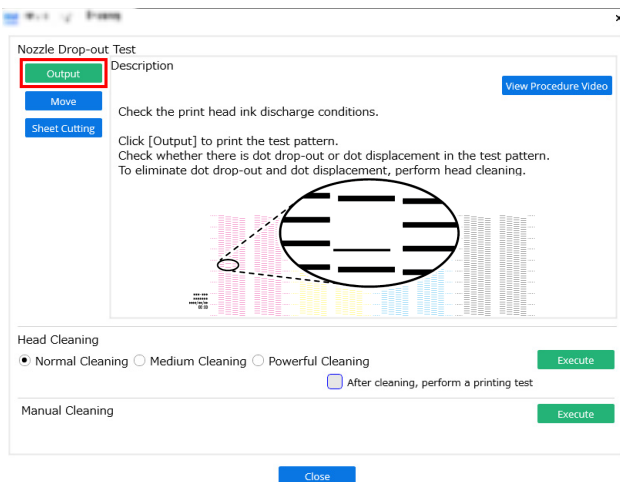


- 9 When the message "The installation of firmware was successful." appears, click [OK].
The update is complete if the firmware version is 3.**. The machine will automatically restart.

Step 2: Performing a Nozzle Drop-out Test

Procedure

- 1 Start Utility.
- 2 Click  to turn on the sub power.
- 3 Click  [Cleaning] on the home screen.
- 4 Click [Nozzle Drop-out Test] > [Output].



5 Check for multiple instances of dot drop-out in the test pattern.

Missing blocks indicate dot drop-out. Collapsed or inclined blocks indicate dot displacement.



Does dot drop-out occur in multiple locations?

Yes > Proceed to Step 6.

No > Proceed to "Step 3: Replacing the Drain Pack".

MEMO

- Switching to S-PG2 ink is possible if dot drop-out occurs in just a few locations. In such cases, proceed to "Step 3: Replacing the Drain Pack." If dot drop-out occurs in multiple locations within a row, cleaning is required. Proceed to Step 6.
- A test pattern like that shown above is printed when you update the firmware and perform a nozzle drop-out test. Note that this test pattern differs from those printed with previous firmware versions.

6 If the nozzle drop-out test performed in Step 5 results in dot drop-out occurring in multiple locations, perform the following procedure.

MEMO

For (1) Manual Cleaning, use the current cleaning liquid instead of the S-PG2-CL cleaning liquid.

① Manual Cleaning

https://downloadcenter.rolanddg.com/contents/manuals/BY-20_USE_EN/index.html?id=fft1625633434484

② Medium Cleaning

https://downloadcenter.rolanddg.com/contents/manuals/BY-20_USE_EN/index.html?id=wst1625633444387

- ③ Perform a nozzle drop-out test and check for multiple instances of dot drop-out.

Does dot drop-out occur in multiple locations?

Yes > Contact your authorized dealer.

No > Proceed to "Step 3: Replacing the Drain Pack".

Step 3: Replacing the Drain Pack


https://downloadcenter.rolanddg.com/contents/manuals/BY-20_USE_EN/index.html?id=exu1625633455794

MEMO

If the message [Do you want to reset the discharged-fluid count?] appears at the end of the work to replace the drain pack, click "Yes".


Step 4: Performing Ink Draining and Refilling with S-PG2 Ink

Procedure

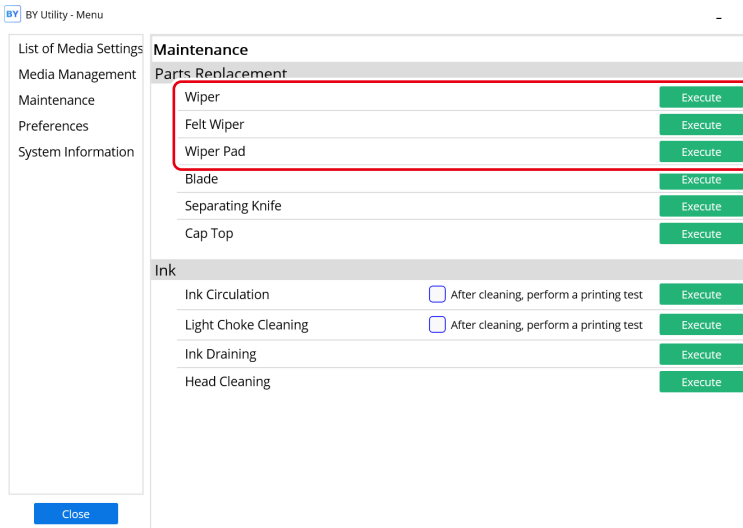
- 1 Click  on the home screen.
- 2 Click [Execute] under [Maintenance] > [Ink] > [Ink Draining].
Drain the ink from the machine.
- 3 When ink draining has finished, turn off the sub power.
- 4 Press the sub power button.
- 5 Fill the machine with S-PG2 ink.
Follow the instructions on the Utility screen to fill the ink.

Step 5: Replacing Parts for Maintenance

Procedure

- 1 Click  on the home screen.
- 2 Click the [Execute] button for each part under [Maintenance] > [Parts Replacement], and follow the instructions on the Utility screen to replace the parts.

- **Wiper**
<https://vimeo.com/1003476606/3c45a51aa4>
- **Felt Wiper**
<https://vimeo.com/1003475818/8b2a3f3955>
- **Wiper Pad**
<https://vimeo.com/1003477176/9fea8d956b>

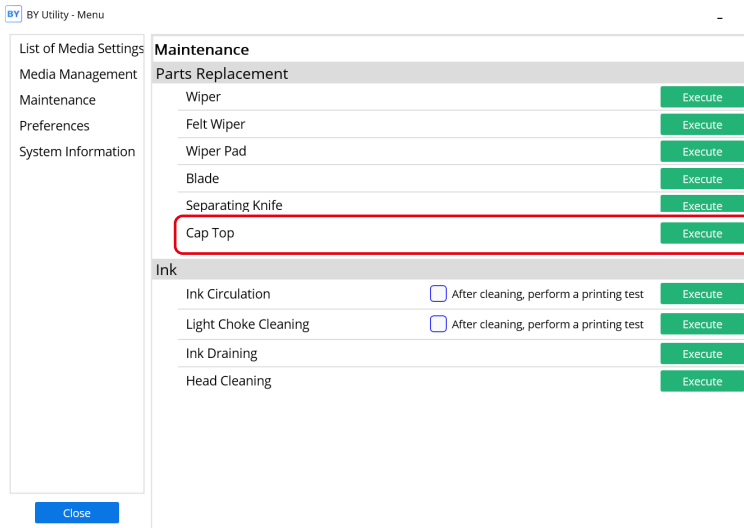


- Click the [Execute] button for [Cap Top] under [Maintenance] > [Parts Replacement], and follow the instructions on the Utility screen to replace the cap top.

MEMO


Use the following link to view a reference video for this procedure. We recommend that you view this video to understand the overall flow of work.

<https://vimeo.com/1003475225/49c1636c84>

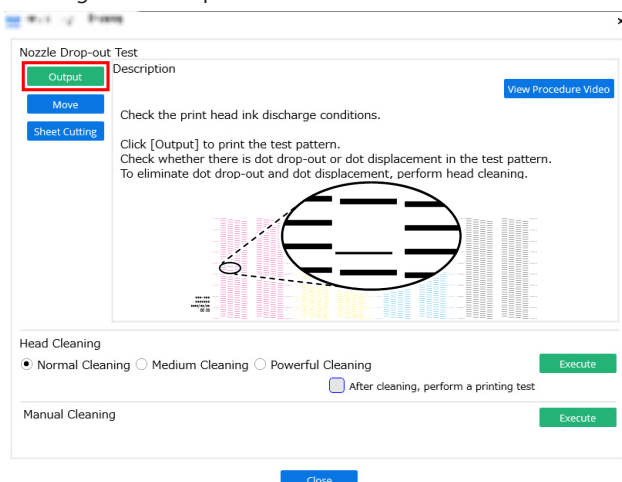


Step 6: Performing a Nozzle Drop-out Test

Procedure

- Click  [Cleaning] on the home screen.
- Click [Nozzle Drop-out Test] > [Output].

Printing of the test pattern starts.



3 Check whether there is dot drop-out or dot displacement in the test pattern.

Missing blocks indicate dot drop-out. Collapsed or inclined blocks indicate dot displacement.

MEMO

It may be possible to ignore the effect on products if drop-out occurs in just a few locations. Try printing. If you can judge that the product is not affected, use the printer without any further cleaning.


If dot drop-out or dot displacement occurs in multiple locations, perform powerful cleaning.

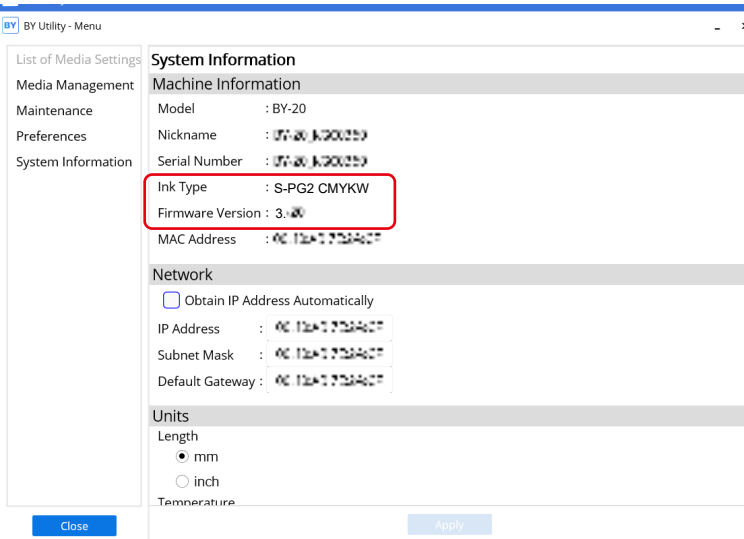
https://downloadcenter.rolanddg.com/contents/manuals/BY-20_USE_EN/index.html?id=s-fv1665623877748



Note that the manual cleaning procedure will change after switching to S-PG2 ink. Follow the instructions on the Utility screen to perform maintenance. In addition, be sure to use S-PG2-CL cleaning liquid after switching to S-PG2 ink.

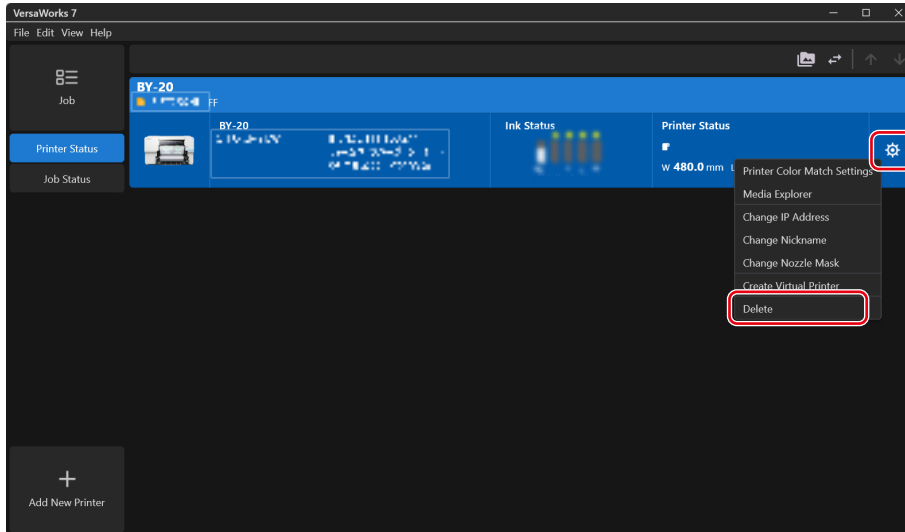
Step 7: Viewing System Information

- 1 Click  on the home screen.
- 2 Check the following information under [System Information] > [Machine Information].
 - Firmware Version: 3.** or later
 - Ink Type: S-PG2 CMYKW



Step 8: Registering the VersaWorks Model Again

If a BY-20 used before the ink was switched is registered in VersaWorks, the ink will not be recognized as S-PG2, making printing impossible due to an ink mismatch. To recognize the ink as S-PG2 and enable printing, delete the BY-20 model information from VersaWorks, and then register the BY-20 again.



For the procedure for registering a printer in VersaWorks, refer to Steps 3 and later in the procedure accessed from the following link.

https://downloadcenter.rolanddg.com/contents/manuals/VW7_INS_EN/index.html?id=cez1732143725149

