

SL-D700

Maintenance Tool Operation Guide

CMP0018-00 EN

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Meaning of Symbols

Important: Important must be followed to avoid damage to this product.	
Note:	Notes contain important information on the operation of this product.

Operating System Versions

In this documentation, the following abbreviations are used.

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	ndows refers to Windows 8, 7.
J	Windows 8.1 refers to Windows 8.1, Windows 8.1 Pro.
	Windows 8 refers to Windows 8, Windows 8 Pro.
	Windows 7 refers to Windows 7 Professional.
Ma	cintosh refers to Mac OS X.
	Mac OS X refers to Mac OS X 10 5 8/10 6 x/10 7 x/10 8 x/10 9 x

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Summary of the Maintenance Tool

From your computer you can perform adjustment and maintenance operations such as checking the printer's status, making settings, performing head cleaning and so on.

Starting and Closing

Starting

On the computer, click Start - All Programs - EPSON - EPSON SL-D700 - SL Printer Maintenance Tool.

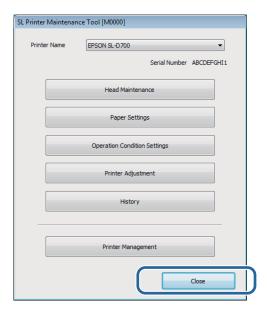


Note:

- You can click **Start SL Printer Maintenance Tool** on the printer driver screen.
- ☐ In Windows 8 and Windows 8.1, point to the top-right or bottom-right of the screen, click **Search** from Charms, and then select **SL Printer Maintenance Tool** from the App list.

Closing

Click Close.



List of Functions

	Setting Item		.
Main Screen Menu	Large Item	Small Item	Settings
Printer Name	-	-	Select the printer.
Head Maintenance	Diagnostic Cleaning	-	Detects clogged nozzles and automatically performs cleaning. To "Diagnostic Cleaning" on page 10
	Forced Cleaning	-	Perform manual cleaning. Forced Cleaning" on page 11
	Nozzle Check	-	Checks for clogged nozzles. The "Nozzle Check" on page 14
Paper Settings	-	-	Set paper information. The "Paper Settings" on page 18
Operation Condition Settings	Warning Buzzer	-	Set whether or not to sound the warning buzzer. **T "Warning Buzzer" on page 19
	Power Saving	-	Set the time to switch to power saving mode. "Power Saving" on page 20
	Periodic Nozzle Check	-	Set whether or not to automatically perform a nozzle check. Periodic Nozzle Check" on page 22

	Setting Item		
Main Screen Menu	Large Item	Small Item	Settings
Printer Adjustment	Print Head Alignment	-	Corrects the print misalignment. ———————————————————————————————————
	Paper Feed Adjustment	-	Adjusts the amount of paper feed. ——————————————————————————————————
	Gray Adjustment	Color Balance	Adjusts the color balance. Gain "Color Balance" on page 31
		Density	Adjusts the density (darker/lighter). The "Density" on page 36
		Gradation	Adjusts the gradation (difference between light and dark). G "Gradation" on page 41
History	Operation History	-	Allows you to check errors and the number of copies printed. ———————————————————————————————————
	Collect Logs	-	Saves log files. ———————————————————————————————————
Printer Management	Firmware Update	-	Updates the printer firmware. ———————————————————————————————————
	Register/Delete Printer	-	Registers or deletes the printer. ———————————————————————————————————
	Replace Printer	-	Replaces the printer. ———————————————————————————————————
	Spool Folder Settings	-	Changes the folder that temporarily stores the spooled data for printing.
	Paper Info Update	-	

Head Maintenance

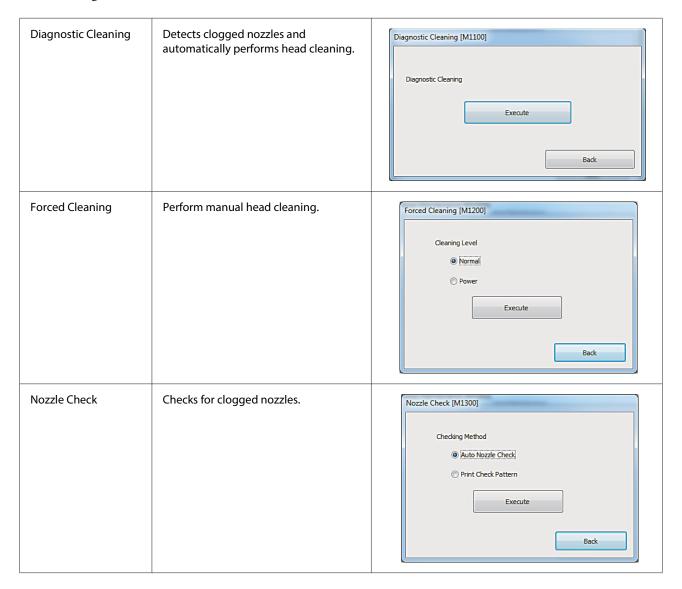
In **Head Maintenance** you can perform printer maintenance operations such as **Diagnostic Cleaning**, **Forced Cleaning**, and **Nozzle Check**.

Before performing **Head Maintenance**, make sure that the printer's **(** light is on.

Using Head Maintenance

This function checks for clogging in the print head, and clears the clogging if any is detected. If the nozzles are clogged, stripes may appear in the print outs, and the colors may differ from the standard, expected colors. If this does occur, use **Head Maintenance** to clear the problem by following the workflow on the next page.

The following three functions are available in **Head Maintenance**.



1 There are problems with the print outs such as stripes appearing or a variation in the colors.

<Print example>







Perform Diagnostic Cleaning.

When the message "Diagnostic Cleaning completed normally." is displayed

-> Cleaning is complete.

When the message "Diagnostic Cleaning is complete. Clogged nozzles detected. Perform diagnostic cleaning again. If the clogged nozzles are not cleared after performing diagnostic cleaning three times, perform [Forced Cleaning] set to [Power]." is displayed

-> Perform **Diagnostic Cleaning** again.

If the nozzles remain clogged after repeating this procedure three times, go to the next step.



3 Execute **Power** from **Forced Cleaning**, and then check **Print Check Pattern**.

When there are no problems in the check pattern print results

-> Operations are complete.

When there are problems in the check pattern print results

-> Contact service support.

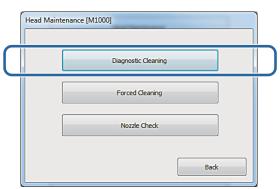
Diagnostic Cleaning

Click **Head Maintenance** on the main screen.



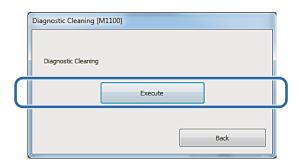
The **Head Maintenance** screen is displayed.

Click Diagnostic Cleaning.



The **Diagnostic Cleaning** screen is displayed.

3 Click Execute.



The nozzle check starts. Perform cleaning if necessary.

Depending on the condition of the nozzles, the time required may differ.

4

Check the results of Diagnostic Cleaning in the message displayed on the screen.

When the message "Diagnostic Cleaning completed normally." is displayed, cleaning is complete.

When "Diagnostic cleaning is finished. Clogged nozzles detected. Perform diagnostic cleaning again. If the clogging is not cleared even after repeating diagnostic cleaning three times, execute [Power] from [Forced Cleaning]." is displayed, perform **Diagnostic Cleaning** again.

If "Auto nozzle check failed." is displayed, contact service support.

If the clogged nozzles are not cleared after performing **Diagnostic Cleaning** three times, perform Forced Cleaning set to **Power**. If the nozzles are still clogged even after performing **Power** cleaning, contact service support.

△ "Forced Cleaning" on page 11

Forced Cleaning

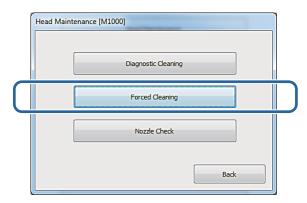
1

Click **Head Maintenance** on the main screen.



The **Head Maintenance** screen is displayed.

Click Forced Cleaning.



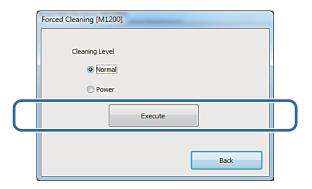
The Forced Cleaning screen is displayed.

3 Select the Cleaning Level.



ltem	Explanation	
Normal	The surface of the head is cleaned and clogged nozzles are cleared.	
Power	Performs a stringer cleaning than Normal . Use this setting if the nozzles are still clogged even after repeating Normal cleaning several times. Power consumes more ink than Normal cleaning. If a message is displayed informing you that here is not enough ink remaining, replace the lnk cartridge before continuing.	

Click Execute.



Cleaning is performed.

Depending on the **Cleaning Level**, the time required may differ.

5

Check the Head Cleaning results.

Check the condition of the nozzles in **Nozzle Check**.

"Nozzle Check" on page 14

If the nozzles are clogged, display the screen from step 3 and perform Normal cleaning. If the nozzles are still clogged even after repeating Normal several times, perform Power cleaning.

If the nozzles are still clogged even after performing Power cleaning, contact service support.

Nozzle Check

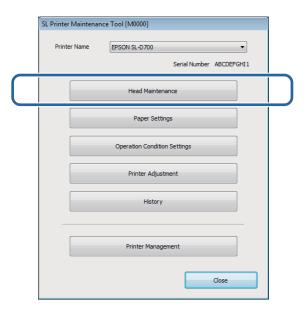
The **Nozzle Check** function checks if the print head nozzles are clogged. The printer uses the **Auto Nozzle Check** function to automatically check for clogged nozzles, and then **Print Check Pattern** prints a check pattern for a visual confirmation.

After the nozzle check, perform **Forced Cleaning** if necessary.

Auto Nozzle Check



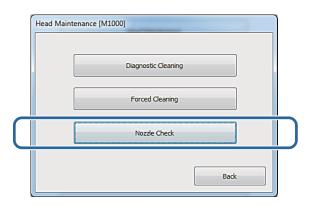
Click **Head Maintenance** on the main screen.



The **Head Maintenance** screen is displayed.

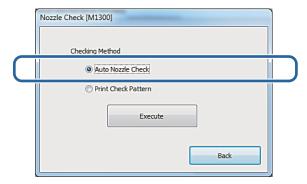
2

Click Nozzle Check.

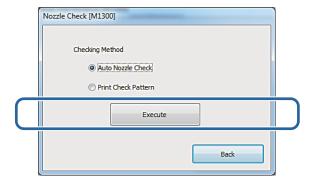


The Nozzle Check screen is displayed.

Select Auto Nozzle Check.



Click **Execute**.



Auto Nozzle Check is performed.

Depending on the condition of the nozzles, this may take some time.

Check the results of the nozzle check in the message displayed on the screen.

When "Auto Nozzle Check complete." is displayed, the check is complete.

When "Clogged nozzles detected. Perform [Forced Cleaning]." is displayed, perform Forced Cleaning.

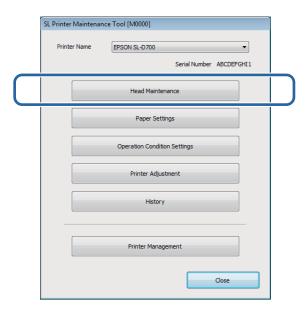
△ "Forced Cleaning" on page 11

Perform **Print Check Pattern** to check the condition of the nozzles.

T "Print Check Pattern" on page 16

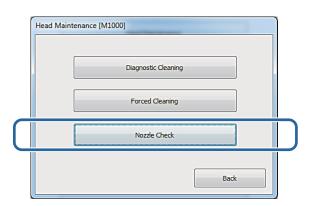
Print Check Pattern

Click **Head Maintenance** on the main screen.



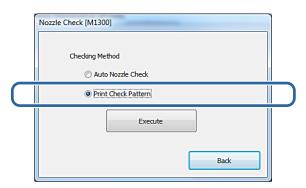
The **Head Maintenance** screen is displayed.

Click Nozzle Check.

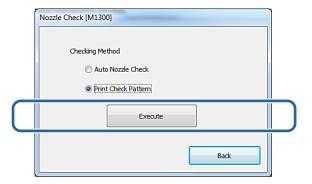


The Nozzle Check screen is displayed.

3 Select **Print Check Pattern**.



Click **Execute**.

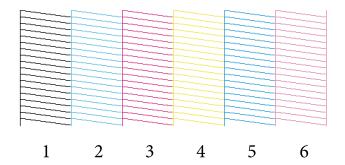


The check pattern is printed.

5 Check the print results.

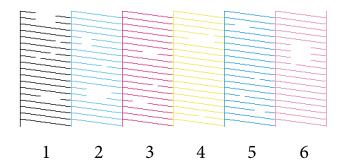
Good example

There are no gaps in the check pattern. The nozzles are not clogged.



Bad example

There are gaps in the check pattern. Clogged nozzles detected. Perform cleaning.



You need to perform head cleaning of there are any gaps in the check patterns.

△ "Forced Cleaning" on page 11

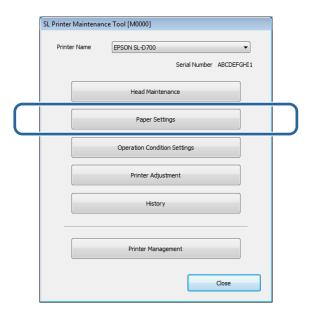
Paper Settings

In Paper Settings, you can set the Paper Type and the Paper Level.

Make these settings when you replace the paper.



Click **Paper Settings** on the main screen.



The Paper Settings screen is displayed.

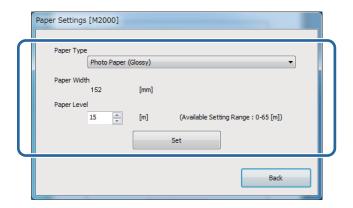
Note:

If the **Paper Settings** screen is not displayed, and "Cannot recognize the paper type. Update the paper information." is displayed, update the paper information.

"Update Paper Information" on page 58

Set the **Paper Type** and the **Paper Level**, and then click **Set**.

The paper width set in **Paper Width** is displayed.



Operation Condition Settings

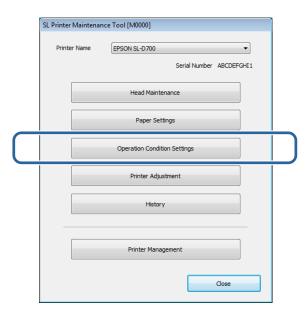
You can perform various printer settings in **Operation Condition Settings**, such as **Warning Buzzer**, **Power Saving**, and **Periodic Nozzle Check**.

Warning Buzzer

Set whether or not to sound the warning buzzer.



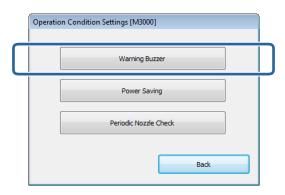
Click **Operation Condition Settings** on the main screen.



The **Operation Condition Settings** screen is displayed.

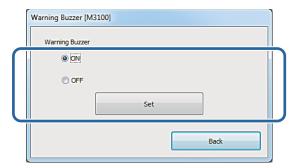
2

Click Warning Buzzer.



The Warning Buzzer screen is displayed.

Select **ON** or **OFF**, and then click **Set**.



ltem	Explanation
ON	The warning buzzer sounds.
OFF	The warning buzzer does not sound.

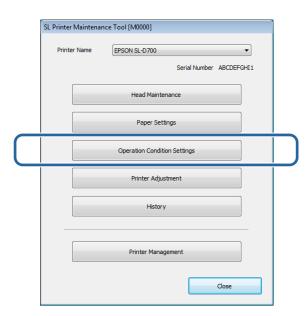
Power Saving

Set the time before switching to Sleep Mode.

If an error has not occurred on the printer and no print jobs have been received for the specified length of time, the printer automatically switches to Sleep Mode.

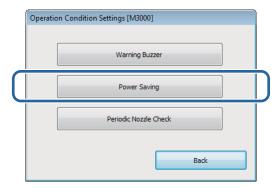
1

Click **Operation Condition Settings** on the main screen.



The **Operation Condition Settings** screen is displayed.

Click Power Saving.

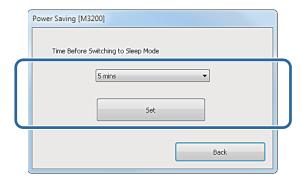


The **Power Saving** screen is displayed.

Select **Time Before Switching to Sleep Mode**, and then click **Set**.

Once the set time has passed, the printer switches to Sleep Mode.

Settings: Shortest, 5 mins, 10 mins, 15 mins, 30 mins, 1 hour, 2 hours



Note

After printing is complete, it takes about five minutes to prepare to switch to Sleep Mode. Therefore, the time before switching to Sleep Mode after printing is about five minutes longer than the actual setting.

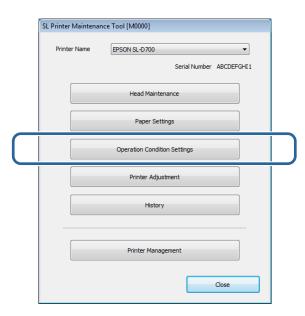
Periodic Nozzle Check

Set whether or not to automatically perform a Nozzle Check.

This should normally be selected ON. Select OFF only if you are instructed to do so by a service engineer. If this is selected OFF, it is necessary to check the clogging status manually.

1

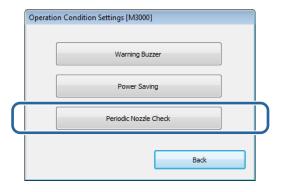
Click **Operation Condition Settings** on the main screen.



The **Operation Condition Settings** screen is displayed.

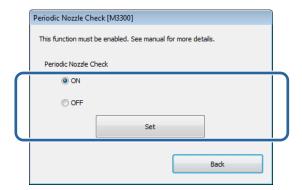
2

Click Periodic Nozzle Check.



The **Periodic Nozzle Check** screen is displayed.

Select **ON/OFF**, and then click **Set**.



Item	Explanation	
ON	Automatically performs Nozzle Check at periodic intervals.	
OFF	☐ Nozzle Check is not performed automatically.	
	☐ Diagnostic Cleaning and Auto Nozzle Check cannot be performed.	

Printer Adjustment

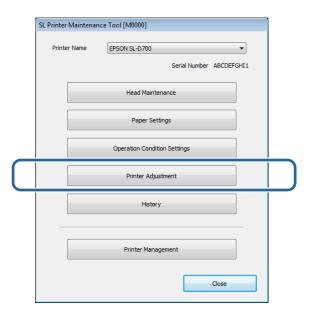
In Printer Adjustment, you can make printer adjustments such as Print Head Alignment, Paper Feed Adjustment, and Gray Adjustment.

Print Head Alignment

If the print results appear grainy or out of focus, perform print head alignment. The print head alignment function corrects print misalignments.

1

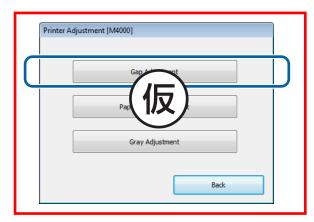
Click **Printer Adjustment** on the main screen.



The **Printer Adjustment** screen is displayed.

2

Click Print Head Alignment.

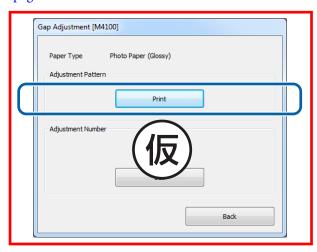


The **Print Head Alignment** screen is displayed.

Check that the paper type displayed matches the paper type for this printer, and then click **Print** from **Adjustment Pattern**.

If the paper type does not match, set the correct paper type in Paper Settings.

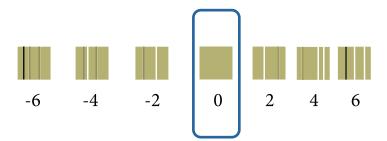
△ "Paper Settings" on page 18



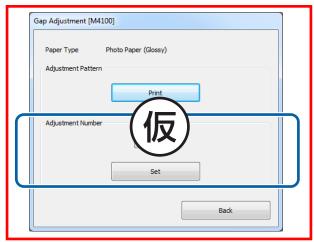
The adjustment pattern is printed.

Check the print results.

Check for the pattern with the least number of missing lines.



Select the pattern number, and then click **Set**.



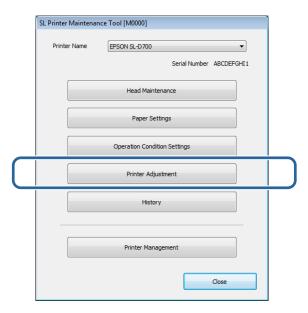
The adjustment values are applied.

Paper Feed Adjustment

Paper feed amount errors may occur in the printer due to changes in the surroundings or changes over time. If quality declines, you may be able to improve it by correcting the paper feed amount.



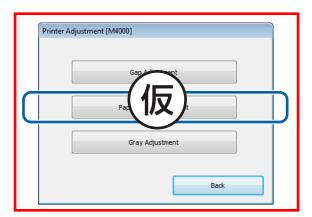
Click **Printer Adjustment** on the main screen.



The **Printer Adjustment** screen is displayed.

2

Click Paper Feed Adjustment.

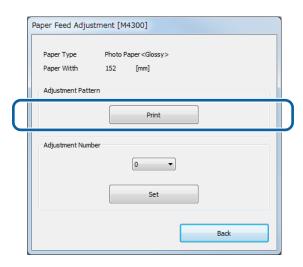


The **Paper Feed Adjustment** screen is displayed.

Check that the printer's paper type and paper width match the paper type and paper width displayed, and then click **Print** from **Adjustment Pattern**.

If the paper type does not match, set the correct paper type in Paper Settings.

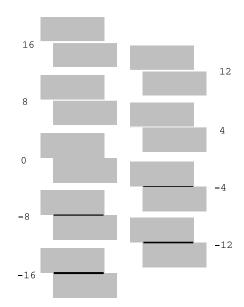
△ "Paper Settings" on page 18



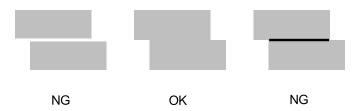
An adjustment pattern is printed.

4 Check the print results.

Note the number of the pattern with the fewest black and white lines.



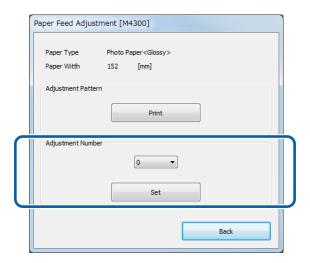
Refer to the following illustration and select an adjustment pattern without black and white lines.



If there are no good patterns among the printed patterns, enter the number for a pattern that is nearly ok, and then reprint the adjustment pattern.

5

Select the pattern number, and then click **Set**.



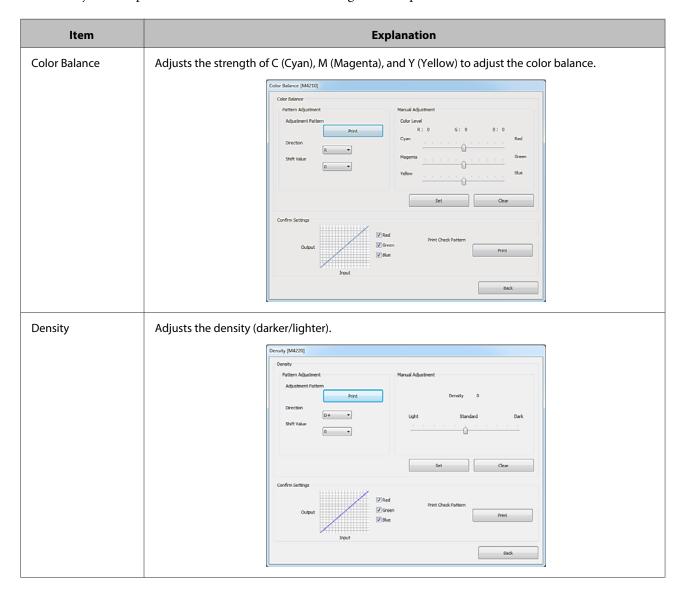
The adjustment values are applied.

Gray Adjustment

Adjusts each value for color balance, density, and gradation, to correct the print colors.

You can adjust the **Image Quality** to high resolution, standard, or high speed.

Print an adjustment pattern, and then select the best setting from the patterns.

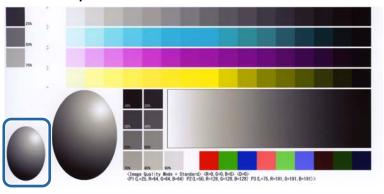


Explanation		
Adjusts the gradation (difference between light and dark).		
Gradation [M4230]		
Gradation Pattern Adjustment Adjustment Harrusi Adjustment Adjustment Pattern		
Print Direction Shift Value R G B		
P1: 25 ° % R		
Ph 75 % % R • 0 • Ph 191 % 191 %		
Set Clear		
Confirm Settings Red Print Check Pattern Print Stire Print Print Stire Print Print Print Stire Print Print		
Input Book		

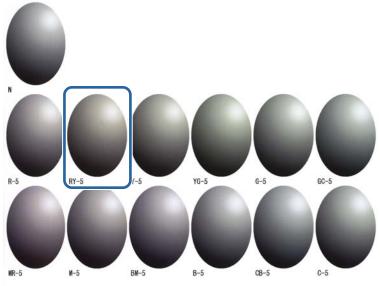
Note:

When adjusting the color balance so that it matches between multiple printers, print an adjustment pattern for the secondary printers and select the pattern closest to the adjustment pattern for the printer being used as the standard.

Adjustment pattern for the standard printer

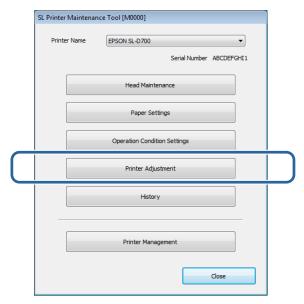


Adjustment pattern for the printer you want to match to the standard printer



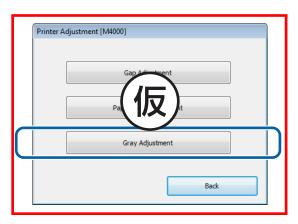
Color Balance

Click **Printer Adjustment** on the main screen.



The **Printer Adjustment** screen is displayed.

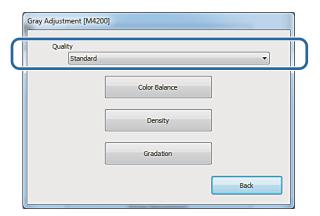
Click Gray Adjustment.



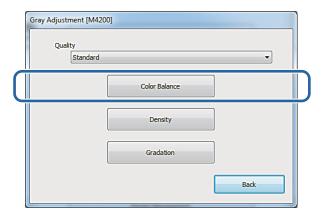
The **Gray Adjustment** screen is displayed.

3 Select the image quality setting you want to adjust.

Available image quality settings differ according to the loaded paper type.

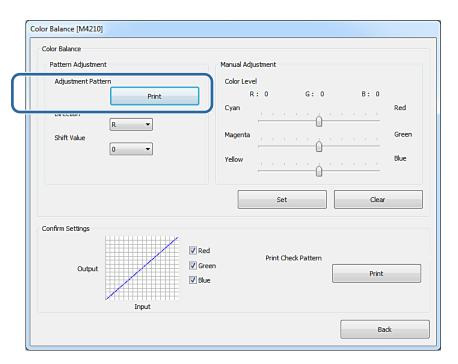


Click Color Balance.



The **Color Balance** screen is displayed.

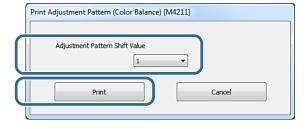
On the Color Balance screen, click Print from Adjustment Pattern.



6 Select **Adjustment Pattern Shift Value**, and then click **Print**.

If the value is large, an adjustment pattern with a large number of variations in the correction values is printed.

Select a small value to fine-tune your adjustments.



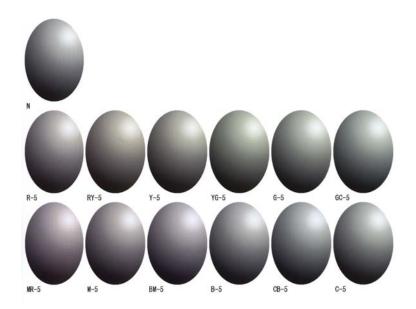
The adjustment pattern is printed.

Select the best pattern from the adjustment patterns, and check the adjustment number.

The adjustment numbers are the letters and numbers printed at the bottom left of each pattern. (Example: RY-5)

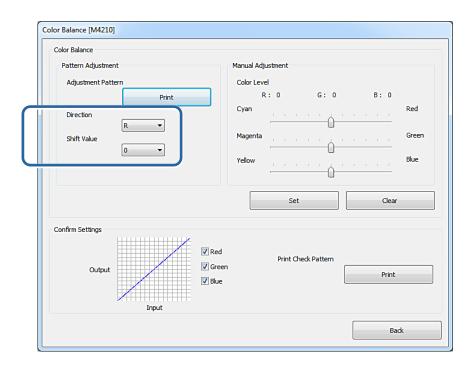
The letters show the direction of the color to be adjusted. "N" indicates no adjustment.

The numbers indicate the shift value.



8 Set the **Direction** and **Shift Value**.

Set the adjustment number for the selected adjustment pattern.



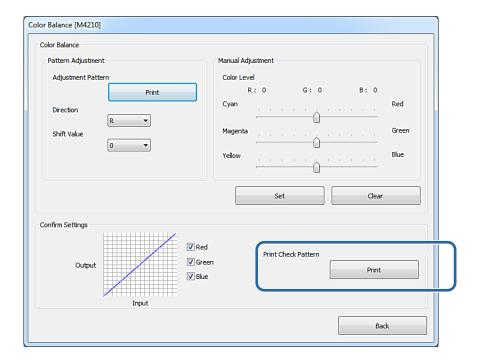
When you change the settings, the changes are reflected in the slide bar on the right of the screen and the graph (tone curve) at the bottom of the screen.

Note:

- The tone curve shows the output strength for each input color (R: Red, G: Green, and B: Blue). When there are no corrections, the line goes straight from the top right to the bottom left; if the line curves down from this position, the colors become darker, and if the line curves up, the colors become lighter.
- You can adjust the color balance manually in **Manual Adjustment** on the right of the screen. When adjusting manually, the value set in **Pattern Adjustment** is no longer used.
- ☐ If you click **Clear**, the **Color Balance** adjustment number returns to its default value. Save the values in **Density** and **Gradation**.
- Click **Print** from **Print Check Pattern**.

The check pattern is printed.

Check that the color balance is as you intended.



Click Set.

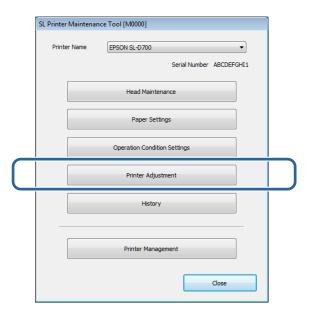
The settings are applied.

11 Click Back.

The Settings screen closes.

Density

Click **Printer Adjustment** on the main screen.



The **Printer Adjustment** screen is displayed.

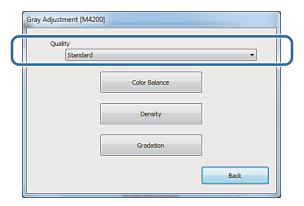
Click Gray Adjustment.



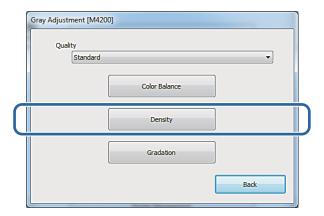
The **Gray Adjustment** screen is displayed.

3 Select the image quality setting you want to adjust.

Available image quality settings differ according to the loaded paper type.



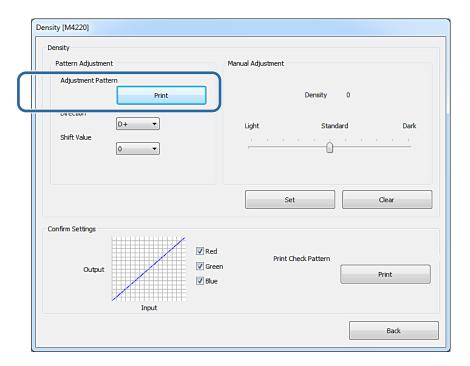
Click Density.



The **Density** screen is displayed.

On the **Density** screen, click **Print** from **Adjustment Pattern**.

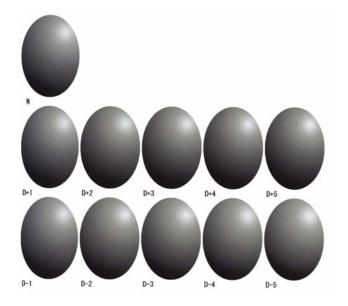
The adjustment pattern is printed.



6 Select the best pattern from the adjustment patterns, and check the adjustment number.

The adjustment numbers are the letters and numbers printed at the bottom left of each pattern. (Example: D-2)

"N" indicates no adjustment. The numbers indicate the shift value.

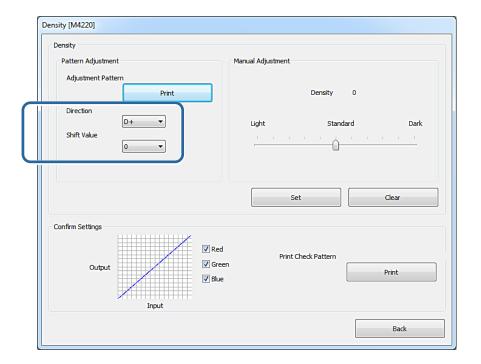




Set the Direction and Shift Value.

Set the adjustment number for the selected adjustment pattern.

Set the light and darkness (D+ and D-) in **Direction**, and the numbers in **Shift Value**.



When you change the settings, the changes are reflected in the slide bar on the right of the screen and the graph (tone curve) at the bottom of the screen.

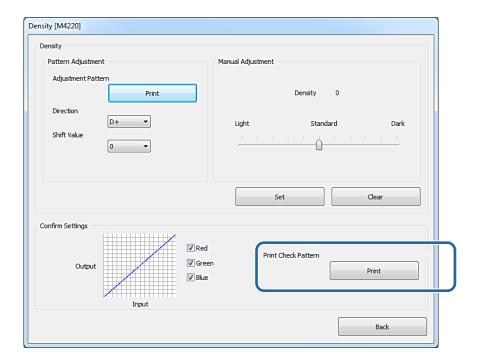
Note:

- The tone curve shows the output strength for each input color (R: Red, G: Green, and B: Blue). When there are no corrections, the line goes straight from the top right to the bottom left; if the line curves down from this position, the colors become darker, and if the line curves up, the colors become lighter.
- You can adjust the density manually in **Manual Adjustment** on the right of the screen. When adjusting manually, the value set in **Pattern Adjustment** is no longer used.
- ☐ If you click **Clear**, the **Density** adjustment number returns to its default value. Save the values in **Color Balance** and **Gradation**.

8 Click Print from Print Check Pattern.

The check pattern is printed.

Check that the color balance is as you intended.



Click Set.

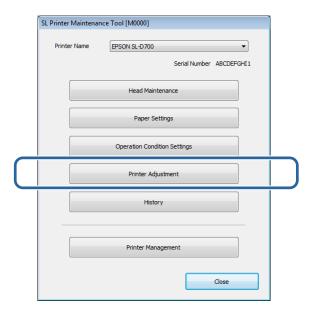
The settings are applied.

Click Back.

The Settings screen closes.

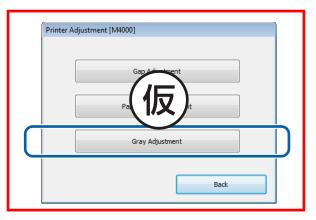
Gradation

Click **Printer Adjustment** on the main screen.



The **Printer Adjustment** screen is displayed.

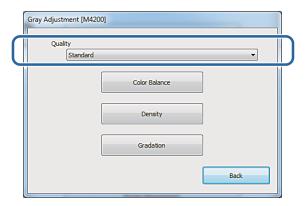
Click Gray Adjustment.



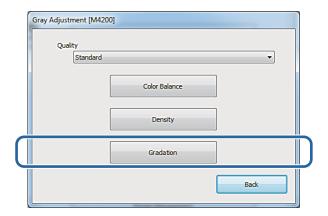
The **Gray Adjustment** screen is displayed.

3 Select the image quality setting you want to adjust.

Available image quality settings differ according to the loaded paper type.

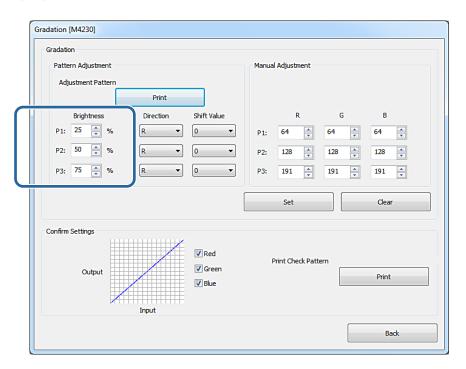


Click Gradation.



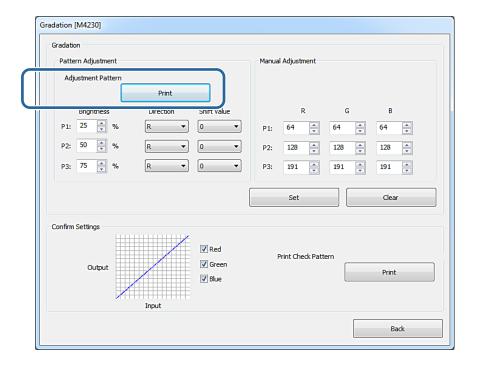
The **Gradation** screen is displayed.

On the **Gradation** screen, you can adjust the settings for brightness points (P1: shadows, P2: intermediate colors, P3: highlights) if necessary.



6 Click Print from Adjustment Pattern.

The screen where you can set the adjustment pattern shift value to be printed is displayed.



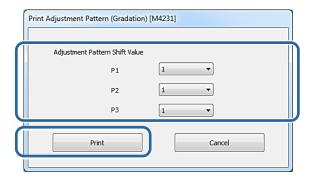
7

Select Adjustment Pattern Shift Value, and then click Print.

If the value is large, an adjustment pattern with a large number of variations in the correction values is printed.

Select a small value to fine-tune your adjustments.

Set the shift value for each brightness point; P1 (shadows), P2 (intermediate colors), and P3 (highlights).



The adjustment pattern is printed.

8

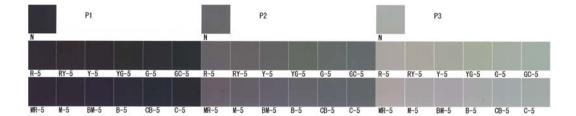
Select the best pattern from the adjustment patterns, and check the adjustment number.

The adjustment numbers are the letters and numbers printed at the bottom left of each pattern. (Example: R-5)

The letters show the direction of the color to be adjusted. "N" indicates no adjustment.

The numbers indicate the shift value.

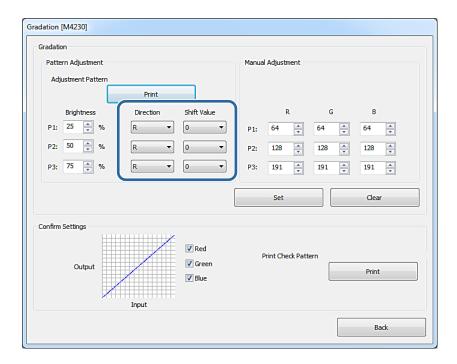
Check each brightness point; P1 (shadows), P2 (intermediate colors), and P3 (highlights).



9

Set the Direction and Shift Value.

Set the adjustment number for the selected adjustment pattern.



When you change the settings, the changes are reflected in each number for **Manual Adjustment** on the right of the screen and the graph (tone curve) at the bottom of the screen.

Note:

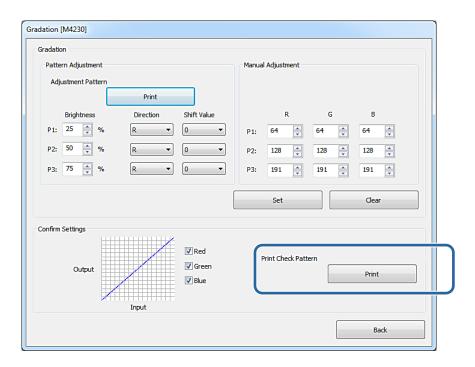
- The tone curve shows the output strength for each input color (R: Red, G: Green, and B: Blue). When there are no corrections, the line goes straight from the top right to the bottom left; if the line curves down from this position, the colors become darker, and if the line curves up, the colors become lighter.
- You can adjust the gradation manually in **Manual Adjustment** on the right of the screen. When adjusting manually, the value set in **Pattern Adjustment** is no longer used.
- ☐ If you click **Clear**, the **Gradation** adjustment number returns to its default value. Save the values in **Color Balance** and **Density**.



Click **Print** from **Print Check Pattern**.

The check pattern is printed.

Check that the color balance is as you intended.



- 11 Click Set.
 - The settings are applied.
- Click Back.

The Settings screen closes.

Problems with Gray Adjustment

Cause	Error message	What to do
The print quality of the adjustment pattern is bad	-	Are some print head nozzles clogged? Print an adjustment pattern again after performing head cleaning.
An error occurs when the setting is applied.	Setup failed. Cannot communicate with the selected printer.	Is the printer connected to the computer correctly? Check the connection between the computer and the printer, and then click Apply again. Is the computer's hard disk out of space? Free up additional space on the computer's hard disk, and then click Apply again.
The wrong adjustments have been applied. I want to make the adjustments again.	-	Return the settings to their defaults, and then adjust again. Click Clear for Color Balance, Density, and Gradation, and then make the adjustments again.

History

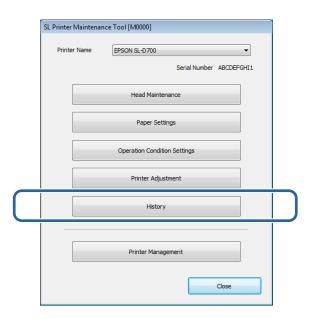
In **History**, you can check the **Operation History**, and save log files in **Collect Logs**.

Operation History

You can check errors and the total number of copies printed.

1

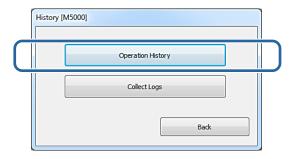
Click **History** on the main screen.



The **History** screen is displayed.

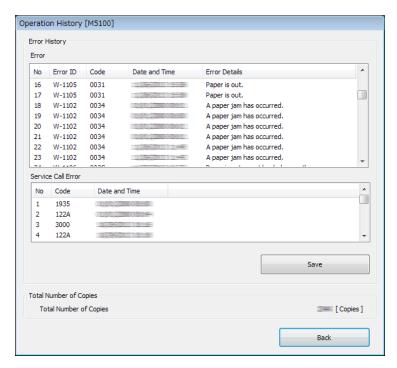
2

Click **Operation History**.



The **Operation History** screen is displayed.

Check the **Operation History** screen.



 $80\,in stances\,of\,errors\,and\,notifications\,that\,occurred\,in\,the\,printer, and\,20\,in stances\,of\,service\,call\,errors\,are\,displayed.$

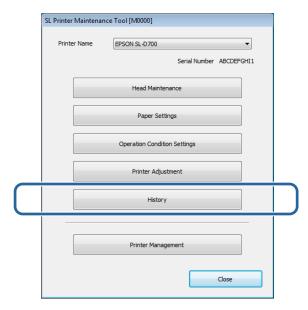
The code indicates the error number.

If you click Save, the Save As screen is displayed and you can save the error history as a text file.

Collect Logs

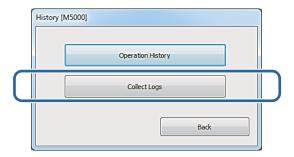
Saves the log files accumulated on the printer.

1 Click **History** on the main screen.



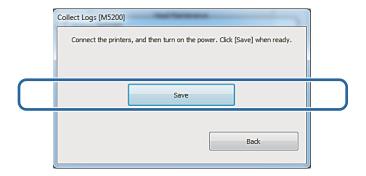
The **History** screen is displayed.

Click Collect Logs.



The **Collect Logs** screen is displayed.

Click Save.



When the Save As screen is displayed, you can save the log data as a zip file.

Printer Management

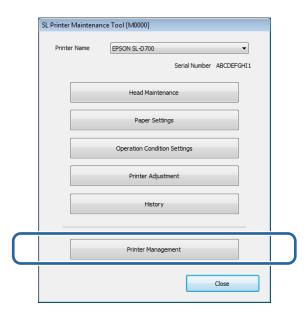
In **Printer Management**, you can perform printer management operations such as **Firmware Update**, **Paper Info Update**, **Register/Delete Printer**, **Replace Printer**, and **Spool Folder Settings**.

Firmware Update

Updates the printer's firmware.



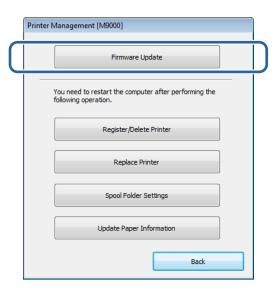
Click **Printer Management** on the main screen.



The **Printer Management** screen is displayed.

2

Click Firmware Update.



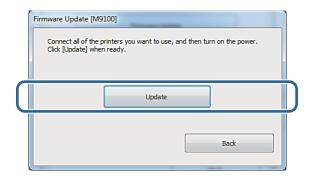
The Firmware Update screen is displayed.

Check that the printer is connected and turned on.

When multiple printers are connected, check all of the printers.



Click **Update**.



The update is executed.

A confirmation message is displayed when the update is complete.

Register/Delete Printer

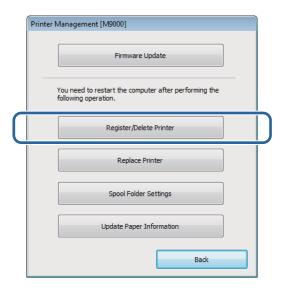
Registers or deletes the printer.

- Connect and turn on all of the printers you want to register. Disconnect and turn off all of the printers you want to delete.
- Click **Printer Management** on the main screen.



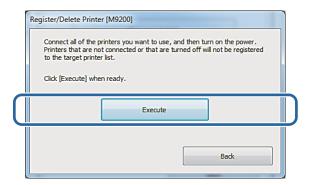
The **Printer Management** screen is displayed.

Click Register/Delete Printer.



The **Register/Delete Printer** screen is displayed.

4 Click Execute.



Registering and deleting the printers is performed.

A confirmation message is displayed when the process is complete.

Note:

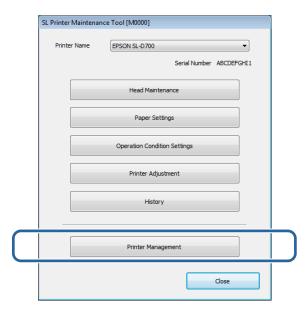
When an updated paper type file is available, the paper information for printers that were additionally registered is updated.

T "Update Paper Information" on page 58

Replace Printer

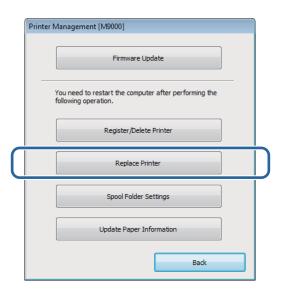
Replaces a printer with the same printer name.

- Disconnect the printer you do not want to use. Connect and turn on the printer you want to use instead.
- Click **Printer Management** on the main screen.



The **Printer Management** screen is displayed.

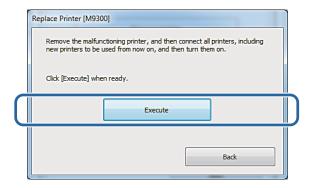
Click Replace Printer.



The **Replace Printer** screen is displayed.

4

Click Execute.



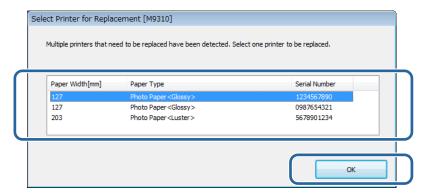
The printer replacement process is performed.

A confirmation message is displayed when the process is complete.

When multiple printers are connected, the **Select Printer for Replacement** screen is displayed.

Select the printer in the next step.

When multiple printers are connected, select the printer you want to replace, and then click **OK**.



The printer replacement process is performed.

A confirmation message is displayed when the process is complete.

Note:

When an updated paper type file is available, the paper information for printers that were additionally registered is updated.

"Update Paper Information" on page 58

Register the paper information again in **Paper Settings**.

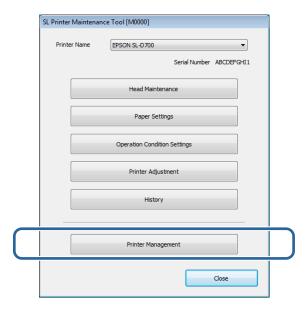
△ "Paper Settings" on page 18

Spool Folder Settings

Set the folder that temporarily stores the spooled data for printing that was generated by the printer driver.

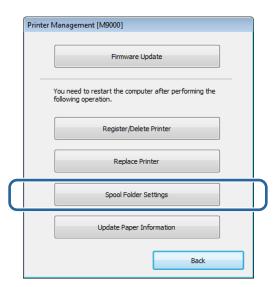
1

Click **Printer Management** on the main screen.



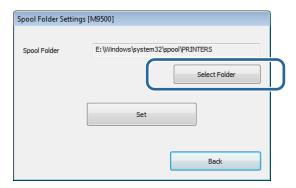
The **Printer Management** screen is displayed.

Click Spool Folder Settings.



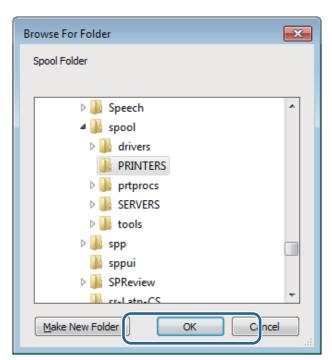
The **Spool Folder Settings** screen is displayed.

Click Select Folder.



The select folder screen is displayed.

Select a folder, and then click **OK**.



The path to the selected folder is displayed.

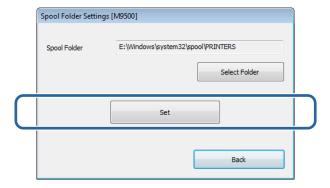
Check that the printer is connected and turned on, and that printing is complete.

When multiple printers are connected, check all of the printers.

Check that there are no print jobs remaining.



6 Click Set.

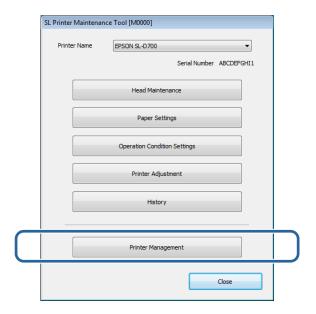


The spool folder is set.

Update Paper Information

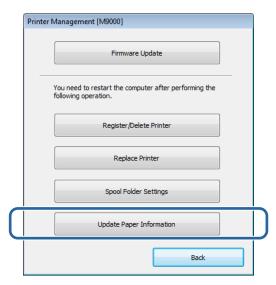
Registers a paper type file to the printer.

Click **Printer Management** on the main screen.



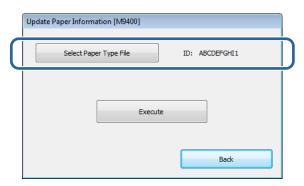
The **Printer Management** screen is displayed.

Click Update Paper Information.



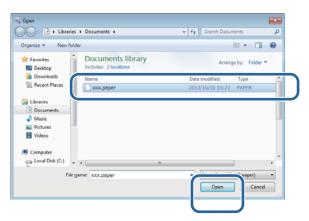
The **Update Paper Information** screen is displayed.

Click Select Paper Type File.



The select file screen is displayed.

Select a paper type file, and then click **Open**.



The ID for the selected paper type file is displayed.



Make sure you select a paper type file.

Note:

Contact your local dealer for information on acquiring paper type files.

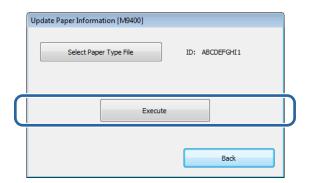
Check that the printer is connected and turned on.

When multiple printers are connected, check all of the printers.



Do not print while during registration.

6 Click Execute.



The paper information is updated.

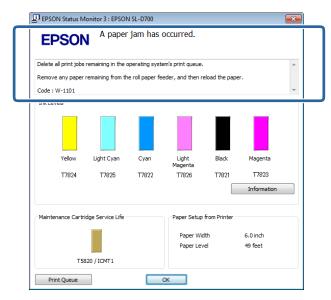
A confirmation message is displayed when the update is complete.

Troubleshooting

About error messages

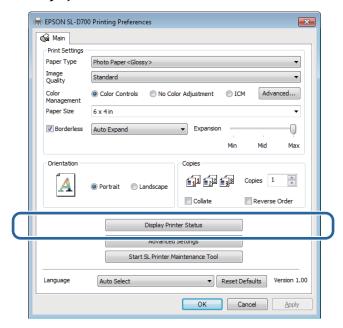
Error messages (Printer Window screen) are displayed when an error occurs in the printer while printing.

The error code, error details, solutions, and so on are displayed on the screen.



Note:

- ☐ See the "Operation Guide" for a list of error messages and solutions.
 - ☐ "Operation Guide" "Errors and Solutions"
- ☐ You can also display the Printer Window screen by following the steps below.
 - 1. Click Print and so on from the File menu of the application you are using.
 - 2. Select this printer, and then click Print Settings (or Detailed Settings or Properties).
 - 3. On the Main screen, click **Display Printer Status**.



Summary of the Maintenance Tool

From your computer you can perform adjustment and maintenance operations such as checking the printer's status, making settings, performing head cleaning and so on.

Starting and closing

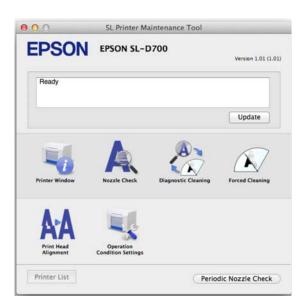
Starting (Mac OS X 10.6.x/10.7.x/10.8.x/10.9.x)

- Select **System Preferences** > **Print & Scan** (or **Print & Fax**) from the **Apple** menu.
- Select the printer and click **Options & Supplies** > **Utility** > **Open Printer Utility**.

Starting (for Mac OS X 10.5.8)

- Select System Preferences > Print & Fax from the Apple menu.
- Select the printer and click **Open Print Queue** >**Utility**.

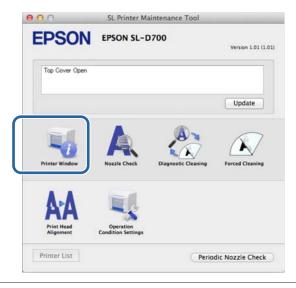
Maintenance Tool screen



Note:

When errors occur in the printer while printing, click **Printer Window** on the main screen and check the content of the error and solutions.

Click **Cancel** on the error screen to return to the main screen.



Closing

Click the red **Close** button (X) at the top-left of the screen.



List of functions

Main Screen Functions	Setting Item	Settings
Message	-	Displays the printer's status. Click Update to update to the latest status.
Printer Window	-	Allows you to check the amount of ink remaining, the free space in the maintenance cartridge, and so on. Printer Window" on page 66
Nozzle Check	-	Allows you to print a check pattern and visually check for clogged nozzles. "Nozzle Check" on page 69
Diagnostic Cleaning	-	Detects clogged nozzles and automatically performs cleaning. ———————————————————————————————————
Forced Cleaning	-	Performs manual cleaning. ———————————————————————————————————
Print Head Alignment	-	Corrects the print misalignment. ———————————————————————————————————
Operation Condition Settings	Time Before Switching to Sleep Mode	Set the time before switching to sleep mode. Time Before Switching to Sleep Mode" on page 78
	Warning Buzzer	Set whether or not to use the warning buzzer. ———————————————————————————————————
	Paper Settings	Set the paper information. ———————————————————————————————————
Printer List	-	Displays a list of available printers allowing you to select the printer you want to configure.
Periodic Nozzle Check	-	Set whether or not to automatically perform a nozzle check. ———————————————————————————————————

Printer Window

Click **Printer Window** on the main screen.



Allows you to check the printer's status such as the amount of ink remaining, the free space in the maintenance cartridge, and information on the paper loaded in the printer and so on from your computer.



Click **Update** to update to the latest status.

Adjusting the Print Head

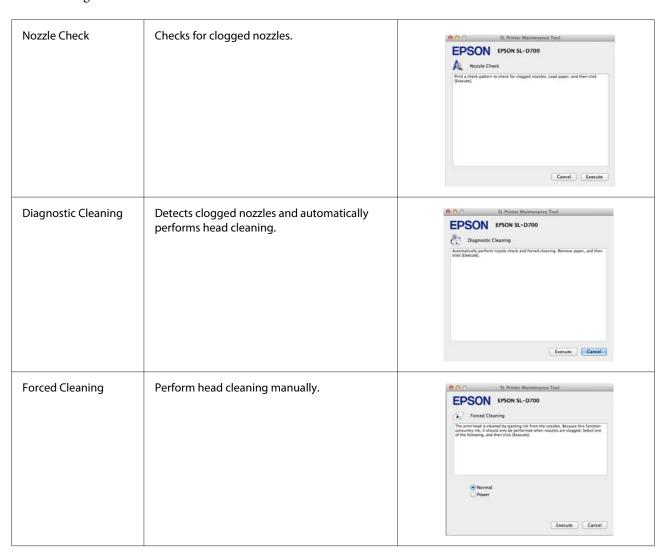
Performing Head Maintenance

Nozzle Check, **Diagnostic Cleaning**, and **Forced Cleaning** are head maintenance functions that check for clogging in the print head and clear clogging if it is detected.

If nozzles are clogged, lines appear in the print outs, and colors are not printed correctly. If this occurs, use the head maintenance functions as described on the following pages.

Make sure the printer's 1 light is on before performing **Head Maintenance**.

The following three functions are available for **Head Maintenance**.



Abnormalities appear in the print outs such as lines, or colors are not printed correctly.

<Print example>







2 Execute Diagnostic Cleaning.

When "Diagnostic cleaning completed." is displayed on the screen

-> Operations are complete.

When "Diagnostic cleaning is finished. Clogged nozzles detected. Perform diagnostic cleaning again. If the clogging is not cleared even after repeating diagnostic cleaning three times, execute [Power] from [Forced Cleaning]." is displayed on the screen

-> Execute **Diagnostic Cleaning** again.

If nozzles are still clogged after repeating this three times, go to the next step.



3 Execute **Power** from **Forced Cleaning**, and then check **Print Check Pattern**.

When there are no problems in the check pattern print results

-> Operations are complete.

When there are problems in the check pattern print results

-> Contact service support.

Nozzle Check

The **Nozzle Check** function checks for clogged nozzles in the print head. Print a check pattern and visually check for clogged nozzles.

After the nozzle check, execute **Forced Cleaning** if necessary.

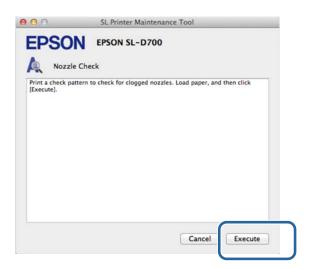
1

Click Nozzle Check on the main screen.



The Nozzle Check screen is displayed.

Click Execute.

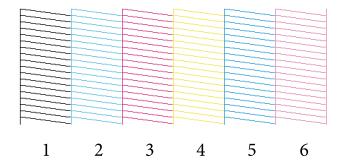


The check pattern is printed.

3 Check the print results.

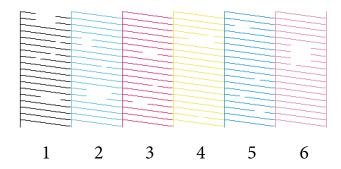
Good example

There are no gaps in the check pattern. There are no clogged nozzles.



Bad example

There are gaps in the check pattern. Clogged nozzles detected. Perform cleaning.

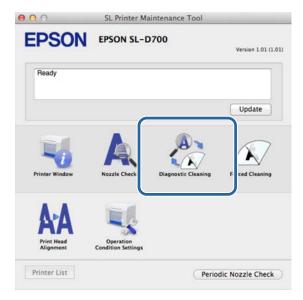


If there are gaps in the check pattern, you need to perform head cleaning.

 ${\mathfrak L}$ "Forced Cleaning" on page 72

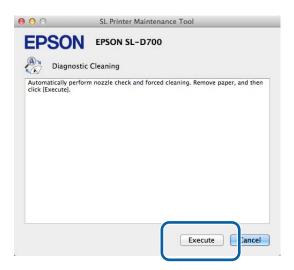
Diagnostic Cleaning

Click **Diagnostic Cleaning** on the main screen.



The **Diagnostic Cleaning** screen is displayed.

Click Execute.



The nozzle check starts, and cleaning is performed if necessary.

This may take some time depending on the condition of the nozzles.

Check the message on the screen for the Diagnostic Cleaning results.

When "Diagnostic cleaning completed." is displayed, the procedure is complete.

When "Diagnostic cleaning is finished. Clogged nozzles detected. Perform diagnostic cleaning again. If the clogging is not cleared even after repeating diagnostic cleaning three times, execute [Power] from [Forced Cleaning]." is displayed, execute **Diagnostic Cleaning** again.

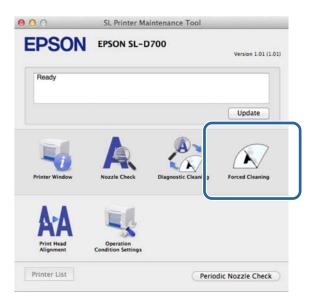
If nozzles are still clogged after repeating **Diagnostic Cleaning** three times, execute **Power** from Forced Cleaning. If nozzles are still clogged after executing **Power** cleaning, contact service support.

△ "Forced Cleaning" on page 72

Forced Cleaning

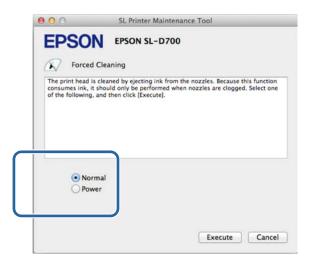
1 Click Forced Clear

Click Forced Cleaning on the main screen.



The **Forced Cleaning** screen is displayed.

Select the cleaning level.

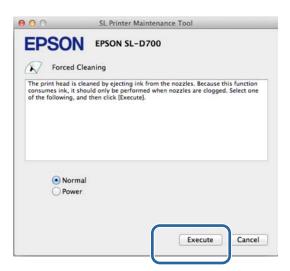


Item	Explanation	
Normal	Cleans the surface of the head and clears clogged nozzles.	

Item	Explanation
Power	Performs a stronger cleaning than Normal . Use this if nozzles are still clogged even after executing Normal cleaning several times. Power cleaning uses more ink than Normal cleaning. If a message is displayed informing you that ink is running low, replace the ink cartridge, and then perform cleaning.

3

Click Execute.



Cleaning is executed.

This may take some time depending on the cleaning level.

4

Check the results of the head cleaning.

Use **Nozzle Check** to check the status of the nozzles.

T "Nozzle Check" on page 69

If the nozzles are clogged, display the screen from step 2 and perform Normal cleaning. If nozzles are still clogged after repeating Normal several times, execute Power cleaning.

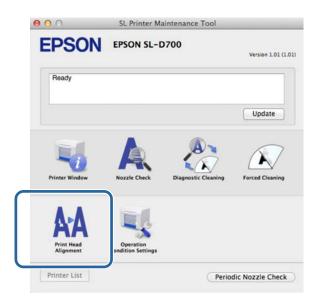
If nozzles are still clogged after executing Power cleaning, contact service support.

Print Head Alignment

If print quality declines due to prints appearing grainy or out of focus, perform Print Head Alignment. The Print Head Alignment function corrects print misalignments and paper feed amount.

1

Click **Print Head Alignment** on the main screen.



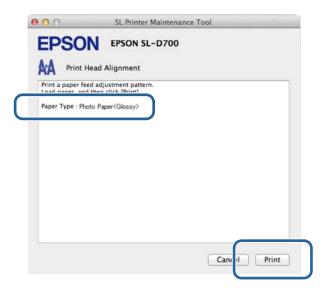
The **Print Head Alignment** screen is displayed.

Check that the paper type displayed matches the paper type for this printer, and then click **Print**.

If the paper type does not match, set the correct paper type in Paper Settings.

△ "Paper Settings" on page 80

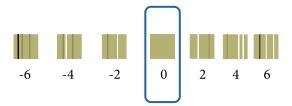
To adjust paper feeding without performing Print Head Alignment, click **Skip** go to step 5.



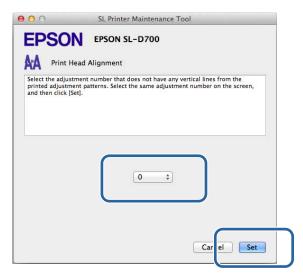
An adjustment pattern is printed.

3 Check the print results.

Check the number of the pattern with the fewest gaps between nozzles.



Select the pattern number, and then click **Set**.



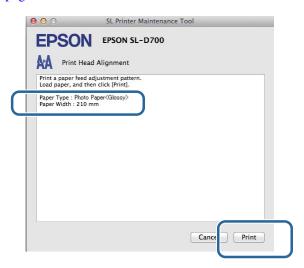
The adjustment values are applied.

Next, the **Paper Feed Adjustment** screen is displayed.

Check that the printer's paper type and paper width match the paper type and paper width displayed, and then click **Print**.

If the paper type does not match, set the correct paper type in Paper Settings.

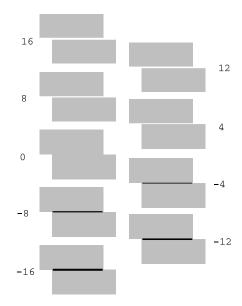
△ "Paper Settings" on page 80



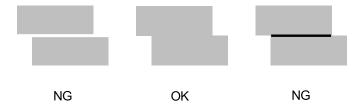
An adjustment pattern is printed.

6 Check the print results.

Check the number of the pattern with the fewest black and white lines.

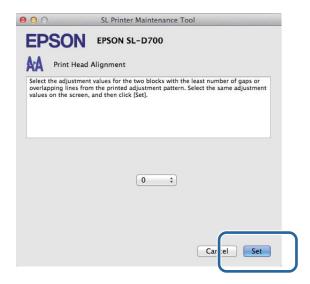


Refer to the following illustration and select an adjustment pattern without black and white lines.



If there are no good patterns among the printed patterns, enter the number for a pattern that is nearly ok, and then reprint the adjustment pattern.

7 Select the pattern number, and then click **Set**.



The adjustment values are applied.

Operation Condition Settings

In **Operation Condition Settings** you can perform various printer settings such as **Time Before Switching to Sleep Mode**, **Warning Buzzer**, and **Paper Settings**.



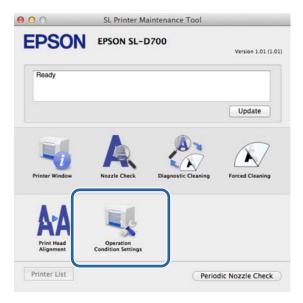
Time Before Switching to Sleep Mode

Set the time before switching to Sleep Mode.

The printer automatically switches to Sleep Mode when a print job has not been received for a while and no errors have occurred.

1

Click **Operation Condition Settings** on the main screen.



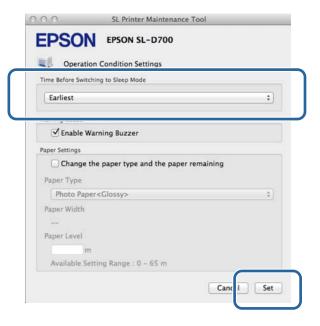
The **Operation Condition Settings** screen is displayed.

2

Select **Time Before Switching to Sleep Mode**, and then click **Set**.

When the set time has passed, the printer switches to Sleep Mode.

Settings: Soon, 5 mins., 10 mins., 15 mins., 30 mins., 1 hour, 2 hours



Note:

After printing is complete, it takes about five minutes to prepare to switch to Sleep Mode. Therefore the time before switching to Sleep Mode is approximately five minutes longer than the set value.

Warning Buzzer

Set whether or not to use the warning buzzer.

1

Click **Operation Condition Settings** on the main screen.

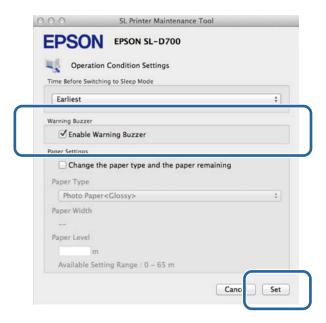


The **Operation Condition Settings** screen is displayed.

Select Enable Warning Buzzer, and then click Set.

Select to enable the warning buzzer.

Clear to disable the warning buzzer.



Paper Settings

In Paper Settings, you can set the Paper Type and Paper Level.

Set these after replacing the paper.

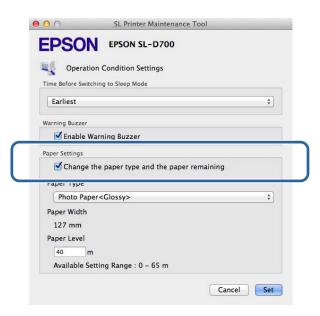
Click **Operation Condition Settings** on the main screen.



The **Operation Condition Settings** screen is displayed.

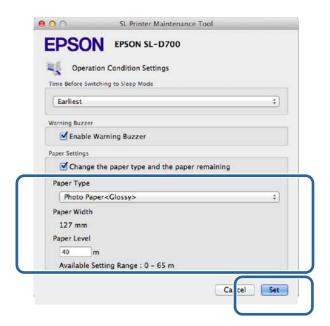
2 Select Change Paper Type and Paper Level.

When this is selected, you can change the Paper Type and Paper Level.



3 Set the Paper Type and the Paper Level, and then click Set.

Paper Width shows the paper width currently set.



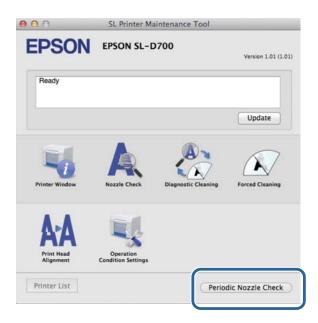
Periodic Nozzle Check

Set whether or not to automatically perform a Nozzle Check.

This should normally be enabled. Only disable this function if you are instructed to do so by a service engineer. If this is disabled, it is necessary to check the clogging status manually.



Click Periodic Nozzle Check on the main screen.



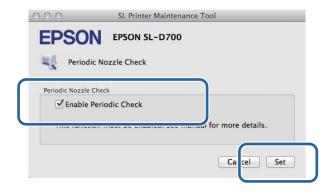
The **Periodic Nozzle Check** screen is displayed.

2

Select Enable Periodic Check., and then click Set.

When this is selected, a Nozzle Check is automatically performed at periodic intervals.

When this is cleared, a Nozzle Check is not automatically performed. Also, you cannot execute Diagnostic Cleaning.



Adding a Printer/Updating Paper Information

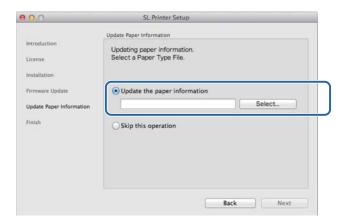
You need to install the printer driver when performing the following operations.

- ☐ Adding a printer
- ☐ Updating paper information (Registering information for a paper type file to the printer)
- Turn off the printer and then connect the printer to a computer with a USB cable.



- Insert the software disc, and then double-click SL Printer Setup.dmg in the **SystemApplication Mac OS X** folder.
- When the screen is displayed, double-click **SL Printer Setup.app**.
- Follow the on-screen instructions to install.

When the following screen is displayed, click **Update the paper information** - **Select**, and then select the paper type file.



Contact your local dealer for information on acquiring paper type files.

Troubleshooting

About error messages

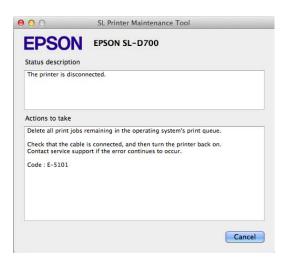
When errors occur in the printer while printing, you can check the content of the error and solutions with the Maintenance Tool.



When an error occurs, click **Printer Window** on the main screen.



Check the solution on the screen and take the required action.



Note

- ☐ See the "Operation Guide" for a list of error messages and solutions.
 - ☑ "Operation Guide" "Errors and Solutions"
- ☐ Click **Cancel** on the error screen to return to the main screen.

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Version 2.1, February 1999

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