Roland

OA-IB-300

Ionizer Unit
Operation Manual

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Introduction

About This Machine

This machine is an optional unit for Roland DG printers.

- This ionizer neutralizes the static electricity within the printer and the static electricity of the object. This reduces issues caused by static electricity such as ink landing position misalignment and adhesion of dust on the object.
- For cautions on use and further details on how to use the printer, see the printer's user's manual.

Operating the Machine

After this machine is installed, you can operate it from the printer's operation panel. For matters regarding the operation panel not included in this manual, see the printer's user's manual.

Setup Method

Configuring Ionizer Settings

Procedure

1 Tap on the operation panel's home screen.

If the home screen is not displayed, tap .

2 Tap [Preferences] - [Ionizer].

MEMO

If an ionizer is not connected, [Ionizer Status] and the [Ionizer] menu item are not displayed on the home screen.

3 Select [On] and tap [Save].

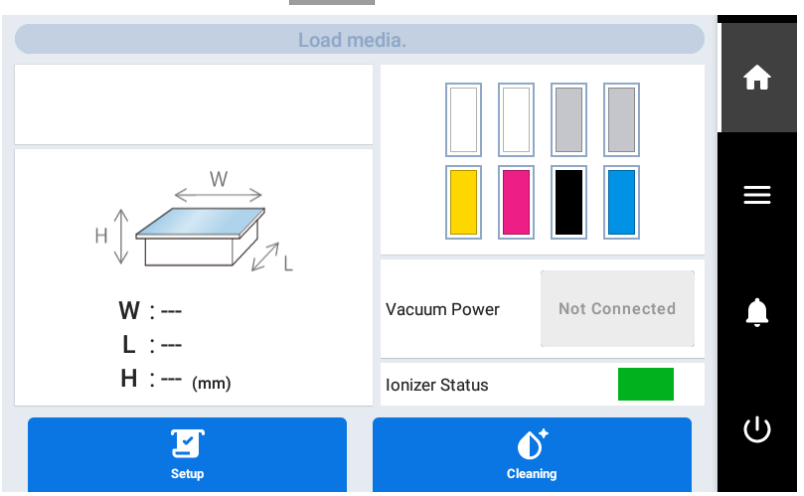
[Ionizer]	Description
[On]	Turns the ionizer on to eliminate the static electricity within the printer and the static electricity of the object.
[Off]	Turns the ionizer off.

4 Tap to display the home screen.

5 Check that is displayed next to [Ionizer Status] on the home screen.

MEMO

When [Ionizer] is set to [Off], is displayed next to [Ionizer Status].



Setting the Operation before Printing

Use the setting described below to eliminate static electricity from the object before printing.
If you select [On], the table will move slowly to eliminate static electricity from the object before printing starts.

MEMO

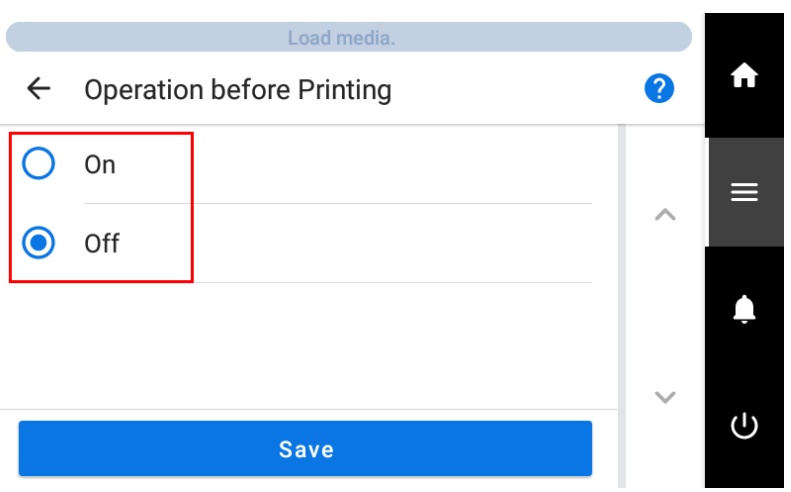
If an abnormal object height is detected during operation before printing, operation is stopped, and the [Table Height Error] message appears on the operation panel.
When this error message appears, work cannot be continued. Confirm that the object is not too large to be loaded in the printer. If it is too large, load an object that is the appropriate size.

You can configure the following setting from the operation panel of the printer to readjust the table height automatically, ensuring that the operation before printing continues even if an abnormal object height is detected.
If the table height was automatically adjusted, the message [The table height was readjusted.] appears after printing finishes.

① **Tap ☰ - [Preferences] - [Clearance Settings].**
② **Tap [Clearance Settings] and select [Readjust].**
③ **Tap [Save].**

Procedure

1. **Tap** ☰ on the operation panel's home screen.
   If the home screen is not displayed, tap ⌂.
2. **Tap [Preferences] - [Operation before Printing].**
3. **Select the [Operation before Printing].**



[Operation before Printing]	Description
[On]	The table will move slowly to eliminate static electricity from the object before printing starts.
[Off]	No operation will be performed before printing starts.

4 **Tap [Save].**

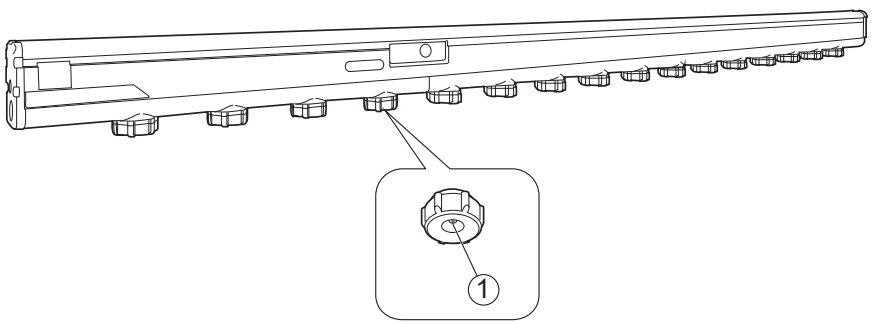
Maintenance

Cleaning the Electrode Probes

When the ionizer is used for a long time, the electrode probes (1) become dirty due to the accumulation of dust and dirt.

Continued use with dirty probes reduces the static electricity elimination capability and may lead to malfunctions.

If the message [Ionizer Ion Error] appears on the printer's operation panel, clean the electrode probes.



To clean the electrode probes, use cotton swabs or electrode probe cleaning kits (sold separately).

For information about purchasing cleaning kits, contact your authorized dealer.

⚠ WARNING **To prevent injury, do not touch the electrode probes directly by hand.**

Use care when performing operations.

MEMO

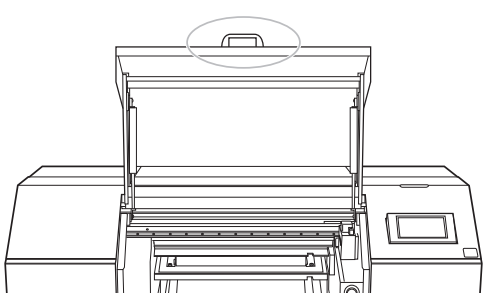
- This machine is a precision device and is sensitive to dust and dirt. Perform cleaning on a daily basis.
- Never attempt to oil or lubricate the machine.
- Before cleaning, remove the object.

1. **Switch off the sub power.**
2. **Turn off the main power switch.**
3. **Open the front cover.**

MEMO

Be sure to hold the handle of the front cover and keep holding it until the cover is completely opened or closed.

If you do not open and close the front cover gently, it may break or you may be injured.



4 **Soak a cotton swab or the cleaning kit filters in alcohol.**

MEMO

When using cleaning kits, attach the filters according to the cleaning kit's manual.

5 **Clean the dirt away from the electrode probes and the inner walls of the electrode probe caps with the cotton swab (A) or the cleaning kits (B).**

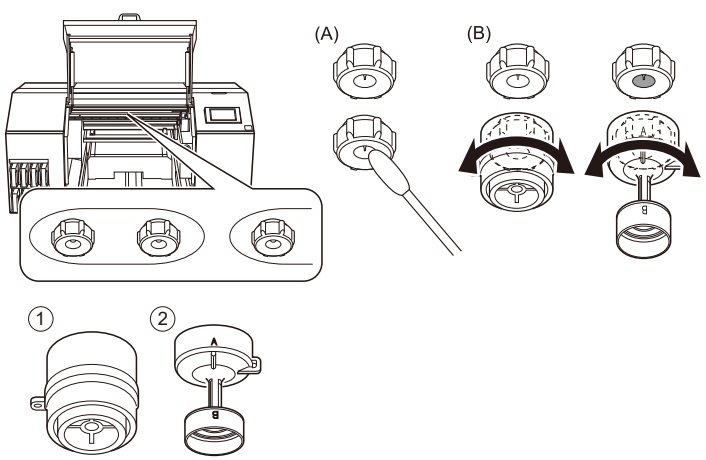
MEMO

There are two types of cleaning kits. One is for cleaning the electrode probes (1). The other is for cleaning the inner wall of the electrode probe caps (2).

With the cleaning kit for cleaning the electrode probes (1), cover an electrode probe with the side on which the filter is attached, and then lightly turn the filter two or three times. The cleaning kit's filter will wipe away the dirt from the electrode probe.

With the cleaning kit for cleaning the inner wall of the electrode probe caps (2), cover an electrode probe with the side on which the filter is attached, and then lightly turn the filter two or three times. The cleaning kit's filter will wipe away the dirt from the inner wall of the electrode probe cap.

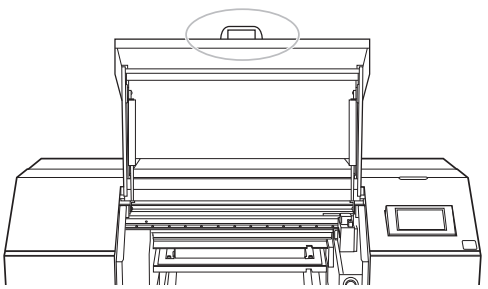
For more information, see the cleaning kit's manual. Note that this machine is not equipped with accelerating electrode probes.



6 **Close the front cover.**

MEMO

Be sure to hold the handle of the front cover and keep holding it until the cover is completely opened or closed.
If you do not open and close the front cover gently, it may break or you may be injured.



7 **Turn on the main power switch.**

8 **Press the sub power button.**

Replacing the Electrode Probes

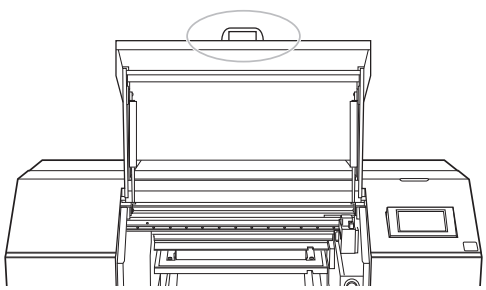
If the electrode probes wear out, the message [Ionizer Ion Error] will appear even if you clean the electrode probes and their surrounding areas. If the message [Ionizer Ion Error] appears frequently or immediately after cleaning the electrode probes, replace them.

⚠ WARNING **To prevent injury, do not touch the electrode probes directly by hand.**
Use care when performing operations.

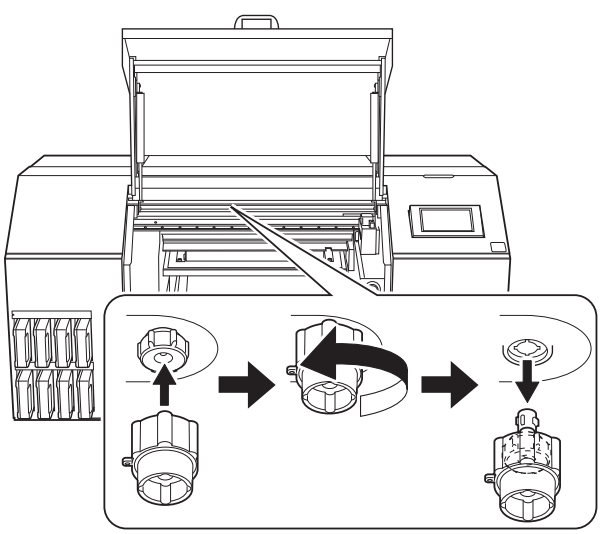
1. **Switch off the sub power.**
2. **Turn off the main power switch.**
3. **Open the front cover.**

MEMO

Be sure to hold the handle of the front cover and keep holding it until the cover is completely opened or closed. If you do not open and close the front cover gently, it may break or you may be injured.



4. **Use the included electrode probe replacement kit to remove the electrode probes.**
   ① **Cover an electrode probe with the electrode probe replacement kit.**
   ② **Turn the electrode probe replacement kit counterclockwise to remove the electrode probe.**



5 **Use the included electrode probe replacement kit to attach new electrode probes.**

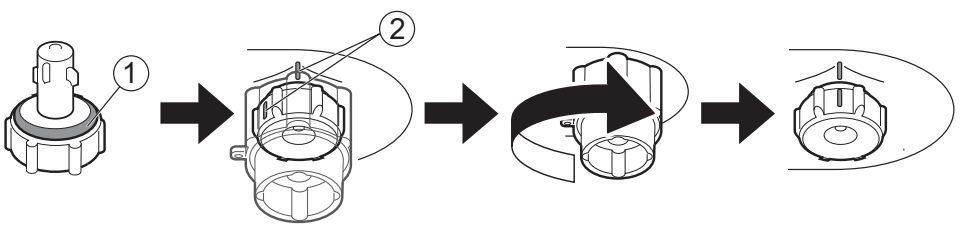
① **Check that the electrode probe's O-ring (1) is attached in the position shown in the figure.**

② **Check the position of the alignment mark (2) on the electrode probe, and then load the electrode probe in the electrode probe replacement kit.**

③ **Misalign the alignment marks on the ionizer and the electrode probe (2), and then insert the electrode probe into the ionizer.**

④ **Turn the electrode probe replacement kit clockwise to attach the electrode probe.**

⑤ **Remove the electrode probe replacement kit, and then check that the alignment marks are lined up.**

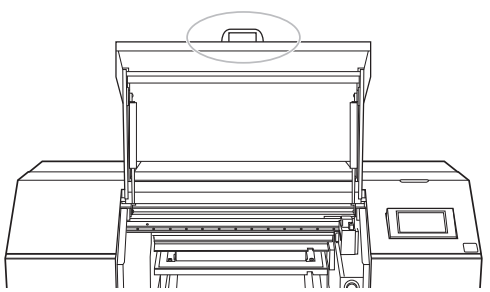


6 **Close the front cover.**

MEMO

Be sure to hold the handle of the front cover and keep holding it until the cover is completely opened or closed.

If you do not open and close the front cover gently, it may break or you may be injured.



7 **Turn on the main power switch.**

8 **Press the sub power button.**

Troubleshooting

Messages

These are the main messages that appear on the printer's operation panel to prompt correct operation. These messages are not errors, so you can close them and perform other work.

To check messages again or to carry out their corresponding actions, tap  to display the list of messages. Tap a message to display the menus and procedure required for the action. Perform operations according to the on-screen instructions.

[Check the ionizer.]

This message appears when the static electricity elimination capability is affected by changes to the installation environment (temperature, humidity, surrounding metal, etc.) such as the absorption of ions by surrounding metal.

Remove all metal and other grounded bodies from the vicinity of the ionizer. When the problem is eliminated, the message will disappear from the notifications.

If there are no metal or other grounded bodies in the vicinity of the ionizer, switch off the sub power, followed by the main power, then switch on the main power again, followed by the sub power.
If the error still occurs, contact your authorized dealer.

Error Messages

This section describes the error messages that appear on the printer's operation panel and how to take action to remedy the problem.

If an error message appears, all screen operations other than switching the power off are disabled. Follow the instructions on the screen to clear the error or switch the power off before starting to operate the printer again.

If the action displayed on the screen does not correct the problem or if an error message not described here appears, contact your authorized dealer.

[Ionizer Alarm Error]

This message appears when an abnormal discharge occurs during static electricity elimination or when the internal circuit is abnormal.

Operation cannot be continued. Switch off the sub power, followed by the main power. Remove any conductive items from the vicinity of the electrode probes, and then switch on the main power again, followed by the sub power.

If the error still occurs, contact your authorized dealer.

[Ionizer Ion Error]

This message appears when the amount of generated ions falls below the set value due to issues such as the electrode probes being dirty or worn out.

Operation cannot be continued. Switch off the sub power, followed by the main power. Then, clean the electrode probes.

☞ P. 6 "Cleaning the Electrode Probes"

If the error still occurs even after you clean the electrode probes, replace them.

☞ P. 9 "Replacing the Electrode Probes"

If the error still occurs even after you replace the electrode probes, contact your authorized dealer.

