

Notification of Change in the Procedure for Cleaning the Tube

Introduction

The procedure for cleaning the tube described in the DFL7161 Maintenance Manual has changed. This technical newsletter provides information about the new operation procedure.

Applicable models

Applicable Model	Section in Maintenance Manual
DFL7161	Section 1-4 of Chapter E

Changed contents

If the coating function is left unused for a long time, the protective film solution may be solidified in the tube, leading to a malfunction of the machine or processing failure.

If the machine is left unused for a long time, clean the tube in accordance with the instructions described in this technical newsletter.

→For the operation procedure, refer to the attached document.

Machine condition	Old procedure	New procedure
Storage of the machine after the coating function is left unused for a long time	After cleaning the tube, fill the machine's tube with deionized water before storing the machine.	After cleaning the tube, drain the deionized water from the machine's tube to the outside of the machine before storing the machine.
Operation to be performed according to the period of time when the coating function is unused	<u>For 2 weeks or longer:</u> Clean the tube before stopping use of the function.	<u>For 2 days or longer:</u> Clean the nozzle after stopping use of the function. <u>For 2 weeks or longer:</u> Clean the tube before stopping use of the function.
Volume of deionized water used	0.5 L	1.0 L

Inquiries

Please contact your DISCO sales representative or DISCO service office if you have any questions regarding this matter.

1-4. Executing the Tube Cleaning (Coating)

When the coating function is left unused for a long time

When the coating function is left unused for a long time, the protective film solution will coagulate within the tube and cause malfunctions. If this machine will not be used for a long time, execute tube cleaning so that any residual protective film solution inside the tube will be discharged out of the tube.

CAUTION

If the coating function is left unused for 2 days or longer, clean the coater nozzle and suction port of the tank before starting to use it

Protective film solution may have adhered to them.

If the coating function is left unused for a long time (2 weeks or more is a rough guide), make sure to perform tube cleaning before stopping use of the function

If tube cleaning fails to be performed, the protective film solution may be solidified in the tubes, which may cause the protective film solution to be poorly applied or require replacement of the machine parts.

NOTICE

Do not clean the stick type sensor before executing liquid charging using deionized water

Otherwise the sensor in the tank will fail to make normal detection.



Technical Newsletter

#tnl2013-0005e



Operation flow

1-4-1	Executing the Liquid Charging Using Deionized Water
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1-4-2	Executing the Tube Cleaning
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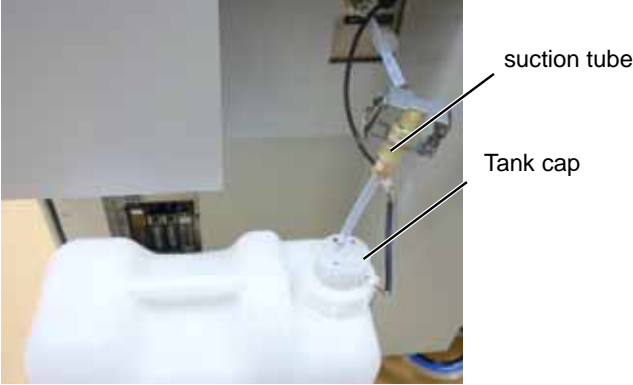
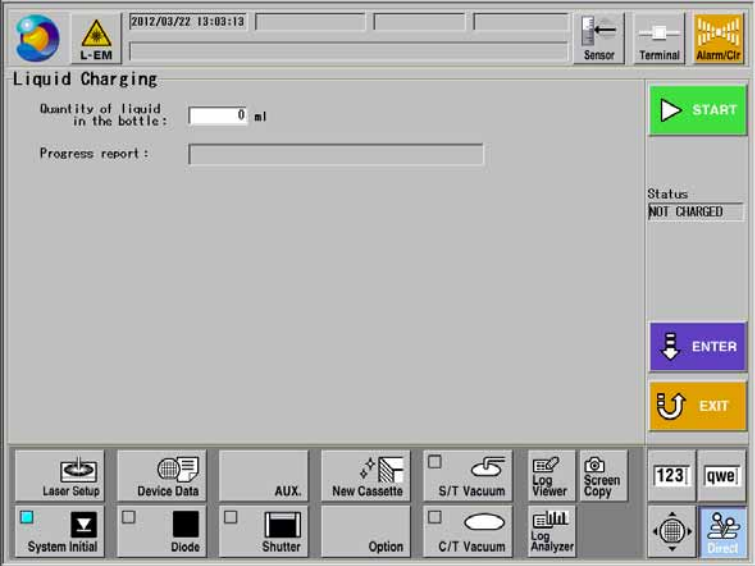
Equipment you must have ready

Safety goggles and protective gloves

Deionized water (1 L)

1-4-1. Executing the Liquid Charging Using Deionized Water

Procedure for executing the liquid charging using deionized water

Step No.	Procedure
1	Wear safety goggles and protective gloves.
2	Have a tank of 1 L deionized water ready.
3	<p>Remove the suction tube and tank cap from the protective film solution tank and put them on the deionized water tank.</p> 
4	<p>Press the <F5> button on the MAIN MENU screen [0.0].</p> <ul style="list-style-type: none"> The OPERATOR MAINTENANCE screen [5.0] will be displayed.
5	<p>Press the <F1> button on the OPERATOR MAINTENANCE screen [5.0].</p> <ul style="list-style-type: none"> The LIQUID CHARGING screen will be displayed. 
6	Enter "1000" in the box [1] on the LIQUID CHARGING screen.


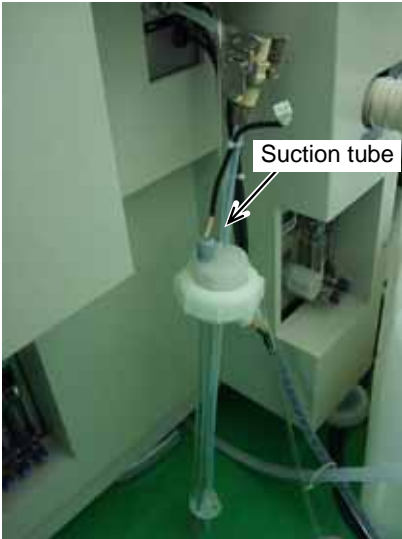
Procedure for executing the liquid charging using deionized water (Continued)

Step No.	Procedure
7	<p>Press the <START> button to execute the liquid charging. (1st time)</p> <ul style="list-style-type: none">• Confirm that deionized water in the tank has been sent to the inside of the machine. <p>→As for liquid charging, see Section 1-3-2 [Liquid Charging by Manual Operation] of Chapter E, in the Maintenance Manual.</p> <p><u>If the error “E1273 : Abnormalities in the tank liquid sensor. Please check the container.” occurs while liquid charging is in execution</u></p> <p>This error occurs if the stick type sensor for detecting the remaining amount in the tank fails to detect deionized water.</p> <p>If an error occurs, put the suction tube back into the protective film solution tank to have protective film solution adhered to the stick type sensor, and then execute the liquid charging with deionized water again.</p>
8	<p>Once liquid charging is complete, press the <START> button again and execute liquid charging (2nd time).</p> <ul style="list-style-type: none">• Do not perform liquid charging operation three times or more.

Continued in the next section.

1-4-2. Executing the Tube Cleaning

Procedure for executing the tube cleaning

Step No.	Procedure (Continued from the previous section)
1	Press the <EXIT> button on the LIQUID CHARGING screen. • The OPERATOR MAINTENANCE screen [5.0] will be displayed.
2	Press the <F6> button on the OPERATOR MAINTENANCE screen [5.0]. • The TUBE CLEAN screen will be displayed. <div data-bbox="523 701 1273 1261" data-label="Image">  </div>
3	Remove the suction tube from the deionized water tank. <div data-bbox="699 1335 1102 1872" data-label="Image">  </div>
4	Press the <START> button to execute the tube cleaning. • Deionized water in the tube in the machine will be discharged to the outside of the machine.

Procedure for executing the tube cleaning (Continued)

Step No.	Procedure
5	<p>Check to make sure that there is no deionized water left in the tube in the machine.</p> <p><u>If the error “E1290 Abnormalities in the pump liquid sensor. Please check the tubing.” occurs while tube cleaning is in execution</u></p> <p>This error occurs if any deionized water is left in the tube. Execute the tube cleaning again.</p>
6	<p><u>The next time the coating function is used</u></p> <ol style="list-style-type: none">1. Take the tube from the deionized water and insert it into the protective film solution tank instead.2. Calling up the LIQUID CHARGING screen.3. Press the <START> button and begin liquid charging. <p>→For the LIQUID CHARGING screen, see Section 4-6 [LIQUID CHARGING Screen]of Chapter B, in the Data Maintenance Manual</p>
