

The following
material is
confidential.



LG-640,540,300

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LG-645430 UV Lamp Height Adjustment Procedure

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LG-645430 Removing reattaching CAP UPDOWN gear cover

LG-645430 Removing reattaching CAP UPDOWN gear cover Information

Step 1 / 2

General Tool

一般ツール/General Tool

六角レンチ (2.5mm)
Hexagonal wrench(2.5mm)



Step 2 / 2

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
ハット昇降ギアカバー付け直し Reattach CAP up/down gear cover	2 min.

LG-645430 Removing reattaching CAP UPDOWN gear cover

LG-645430 Removing reattaching CAP UPDOWN gear cover Procedure

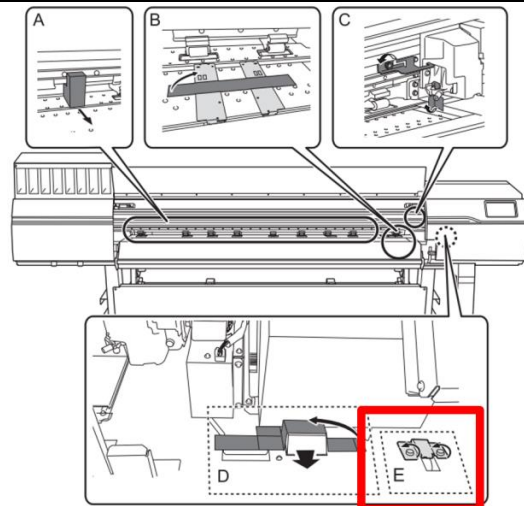
Step 1 / 6

After the machine is assembled and installed, perform this operation when removing the fixture. Failure to perform this operation may result in damage to parts around the gear or cause errors.



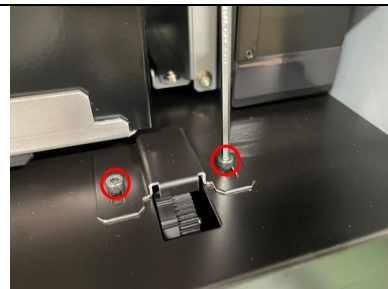
Step 2 / 6

In this operation, the fixture E described in the Setup Guide is removed and reattached.



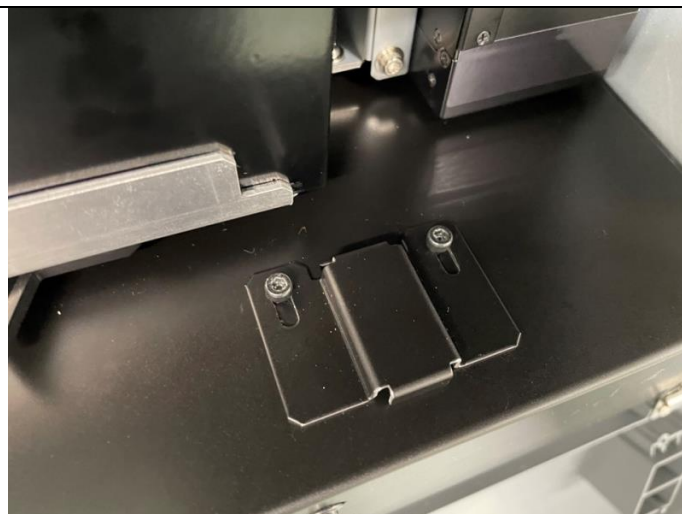
Step 3 / 6

Remove the screws.



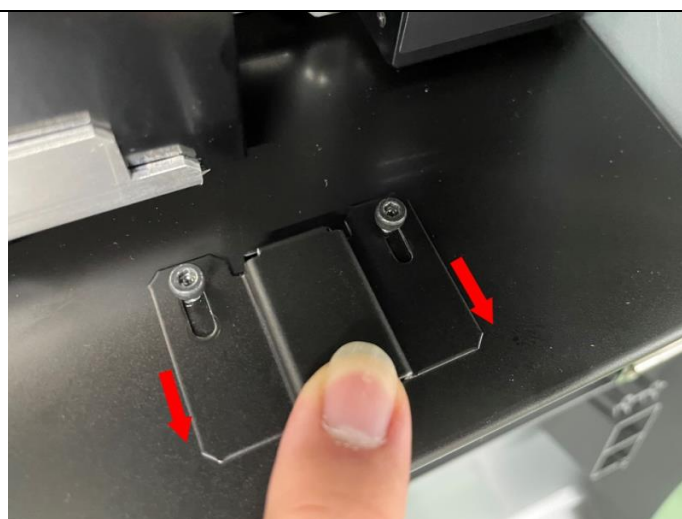
Step 4 / 6

Turn over the cover so that it faces to cover the CAP UP/DOWN gear.



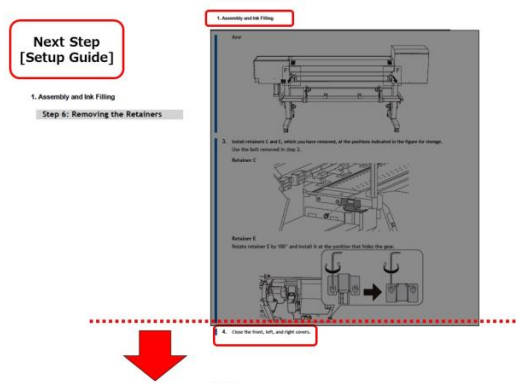
Step 5 / 6

Detail1: Pull the cover toward you and install it so that it is secured at the back side of the long hole.



Step 6 / 6

Return to the work in Setup Guide.



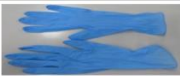
LG-645430 Manual Cleaning before ink filling

LG-645430 Manual Cleaning before ink filling Information

Step 1 / 2

General Tool

一般ツール/General Tool

手袋 Groves	
クリーニングスティック Cleaning stick	
CJ-CL	
ESL5-CL	
保護メガネ Goggle	

Step 2 / 2

Typical Work Time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
マニュアルクリーニング Manual cleaning	10 min.

LG-645430 Manual Cleaning before ink filling

LG-645430 Manual Cleaning before ink filling Procedure

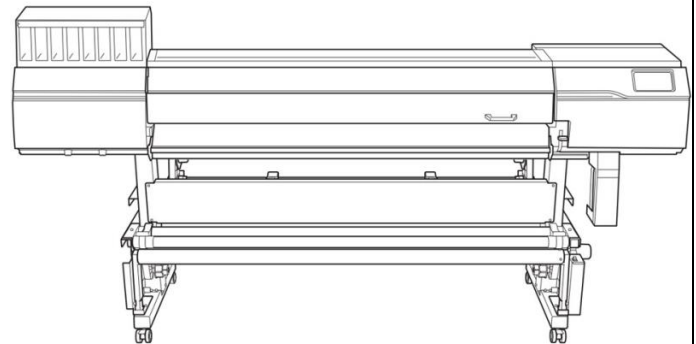
Step 1 / 16

Perform this work after assembling/installing the machine and removing the fixtures, including reattaching the CAP up/down gear cover. Failure to do so will result in a ink ejection failure.



Step 2 / 16

Assemble/install the machine according to the setup guide.



Step 3 / 16

When the sub power is turned on, the carriage moves to the maintenance space on the left side of the machine by

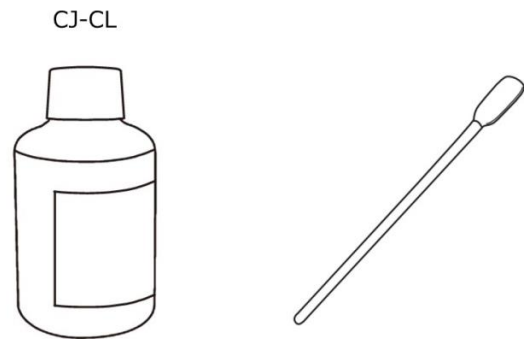


sequence control.



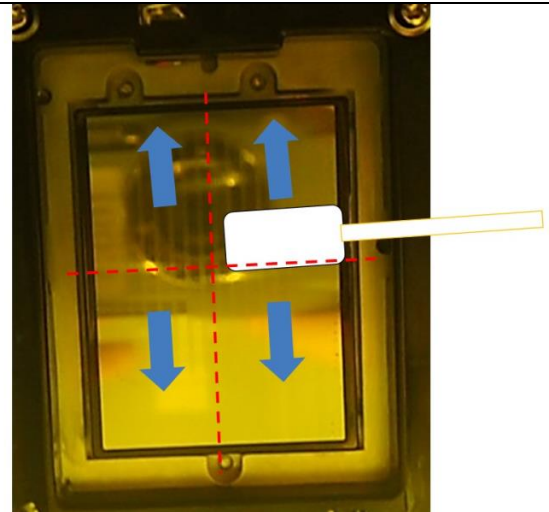
Step 4 / 16

Prepare one cleaning stick soaked with CJ-CL.



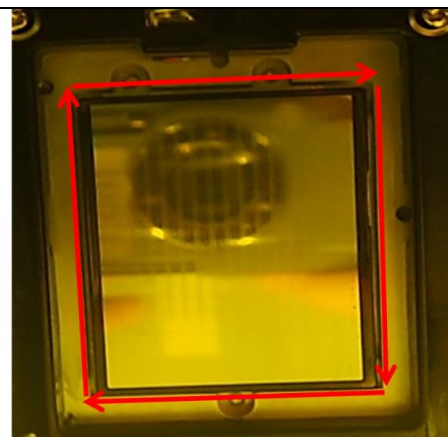
Step 5 / 16

Press the cleaning stick firmly onto the nozzle surface of the print head and slowly wipe off the remaining inspection ink inside and outside of the nozzle in four separate movements from the inside to the outside. Do not press the stick too hard or rub the nozzle.



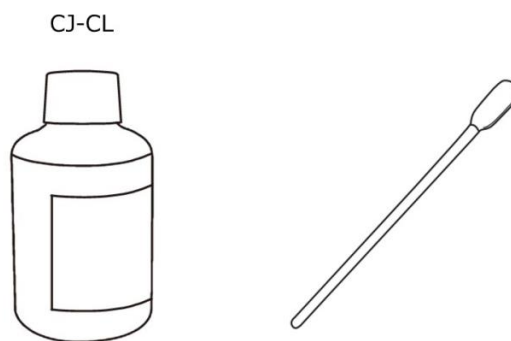
Step 6 / 16

Wipe all the sides of the print head with the cleaning stick used earlier. *Use one cleaning stick per head.



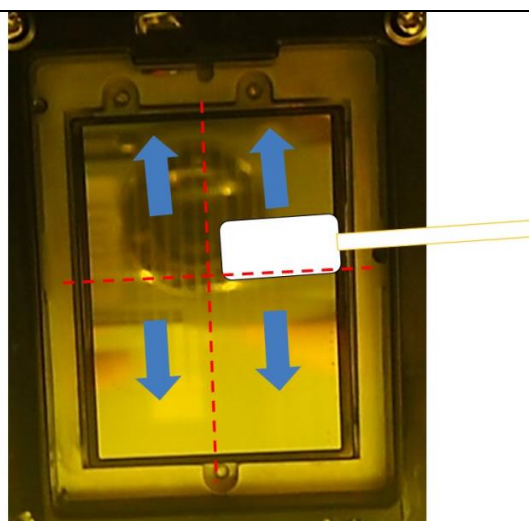
Step 7 / 16

Prepare a new cleaning stick soaked with CJ-CL and perform the same operation on the other print head.



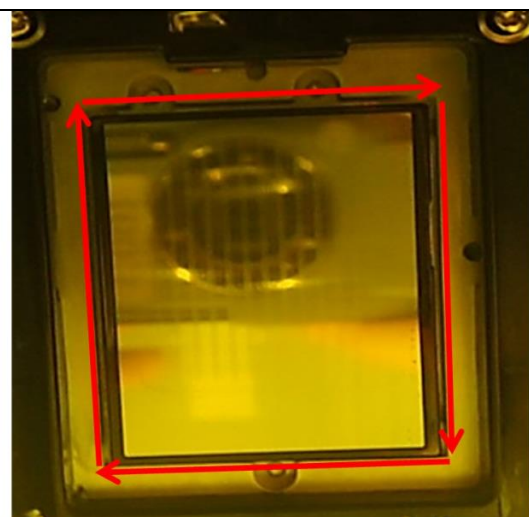
Step 8 / 16

Detail1: Press the cleaning stick firmly onto the nozzle surface of the print head and slowly wipe off the remaining inspection ink inside and outside of the nozzle in four separate movements from the inside to the outside. Do not press the stick too hard or rub the nozzle.



Step 9 / 16

Detail2: Wipe all the sides of the print head with the cleaning stick used earlier. *Use one cleaning stick per head.



Step 10 / 16

Prepare one new cleaning stick and soak it with ESL5-CL. *Be sure to prepare a new cleaning stick.

ESL5-CL



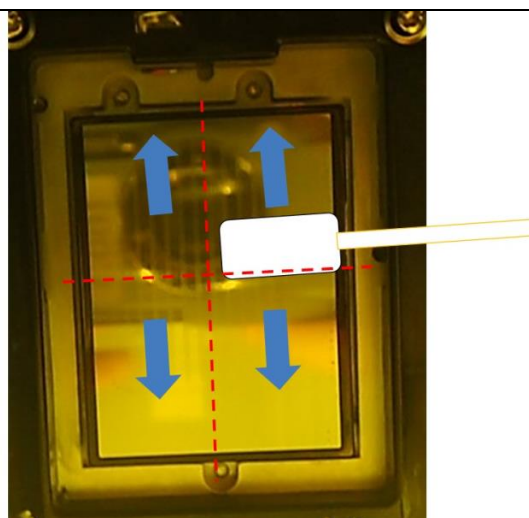
Step 11 / 16

The same work as in CJ-CL is performed in ESL5-CL.



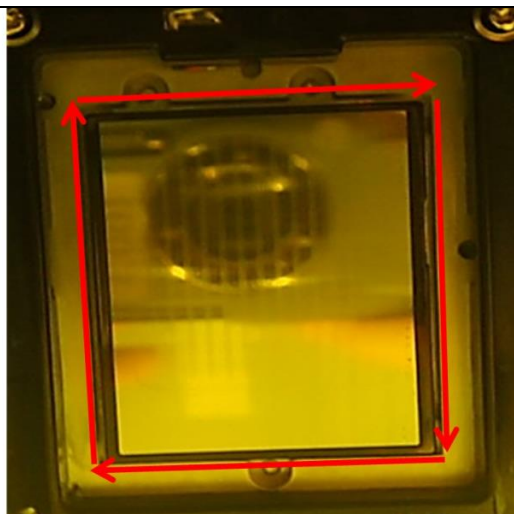
Step 12 / 16

Detail1: Press the cleaning stick firmly onto the nozzle surface of the print head and slowly wipe off the remaining inspection ink inside and outside of the nozzle in four separate movements from the inside to the outside. Do not press the stick too hard or rub the nozzle.



Step 13 / 16

Detail2: Wipe all the sides of the print head with the cleaning stick used earlier. *Use one cleaning stick per head.



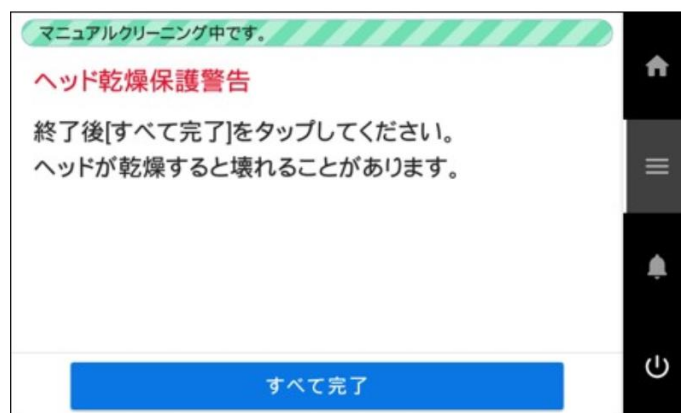
Step 14 / 16

After both print heads have been cleaned, wipe off the wipers and cap tops using the ESL5-CL cleaning stick that was used to wipe off the print heads.



Step 15 / 16

When you have finished, press the [FINISH ALL] key on the panel.



Return to the work in Setup Guide.

Next Step
[Setup Guide]

1. Assembly and Ink Filling
Step 10: Initial Settings and Ink Filling

1. Assembly and Ink Filling
2. Select the ink type and set the cleaning liquid in its slot.

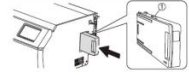
Procedure:

1. The Ink Type Not Set screen will appear. Tap [ECO-INK/CPWK]. This is set to [ECO-INK/CPWK] by default. To use this ink type, tap [OK] to proceed to the next part of the procedure.
2. Select the ink type to use, and then tap [OK].
3. Tap [Execute].
4. Perform manual cleaning before filling the machine with ink.

WARNING
Manual cleaning before filling the machine with ink must be performed by a suitably qualified worker. Never attempt to perform this work yourself.

5. Load the cleaning cartridge in the cleaning liquid slot.
Orient the cartridge in its position (1), face up, and then insert the cartridge as far as it will go, ensuring that the cartridge remains level.

NOTICE
Do not insert ink cartridges into the cleaning liquid slot. Inserting an incorrect cartridge may lead to breakdown. Be careful not to insert the wrong cartridge. If you insert an incorrect cartridge by mistake, contact your authorized dealer.



6. Tap [OK].

LG-645430 Change ink type at installation

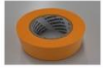
LG-645430 Change ink type at installation

Information

Step 1 / 3

General Tools

一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
マスキングテープ Masking Tape	
ニッパー Cutting Nippers	
スケール Scale	
ESL5-CL	

Step 2 / 3

Necessary parts for work

必要パーツ/Necessary Parts

部品名/Parts Name	個数/Quantity
6000007264 ASSY,ADAPTER JOINT SV CG2183	1
	

Step 3 / 3

Standard operation time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
投函機インクタイプ切替 Ink type switching at installation	30 min.

LG-645430 Change ink type at installation

LG-645430 Change ink type at installation

Procedure

Step 1 / 43

Please be sure to update the firmware to the latest version (Ver. 1.9 or later) before performing the ink type switching procedure. Also, since there is no cap operation menu in the support menu, the operation cannot be completed.



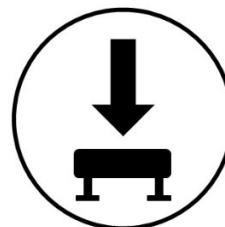
作業を実施する前に必ずファームウェアをVer.1.9以降にアップデートしてください。

Be sure to update the firmware to Ver.1.9 or later before perform the work.

Step 2 / 43

For firmware upgrade before ink filling, see the work item "Firmware Installation" in the RDGSA "Firmware Installation" procedure.

ファームウェアインストール Firmware Installation



Step 3 / 43

This operation should be performed after assembly of the fuselage and removal of the fixture, and before filling



この作業は必ずインク充填前に実施してください。

This procedure must always be performed before ink filling.

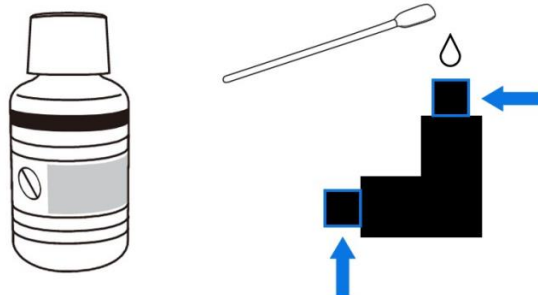
with ink.



Step 4 / 43

During the procedure for inserting a joint into a tube, apply cleaning solution (ESL5-CL) to the end of the joint to make it easier to insert the tube.

ESL5-CL



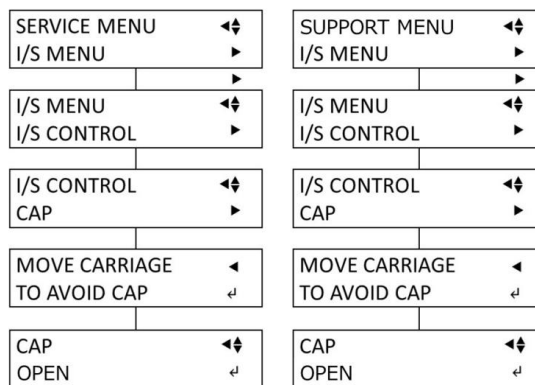
Step 5 / 43

Before starting work, be sure to perform the following steps to lower the print head cap. If you try to start the work without lowering the cap, parts may be damaged.



Step 6 / 43

After turning on the power and starting in service/support mode, operate the cap by "I/S MENU > I/S CONTROL > CAP > MOVE CARRIAGE TO AVOID CAP > OPEN".



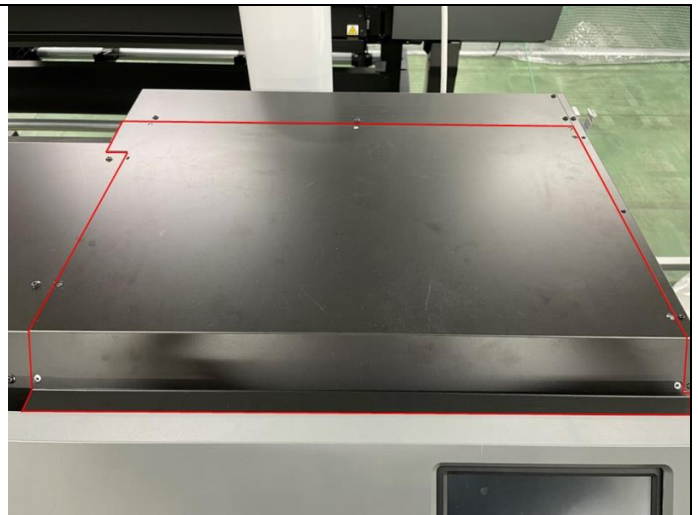
Step 7 / 43

After turning off the secondary power supply, turn off the primary power supply.



Step 8 / 43

Remove the cover.



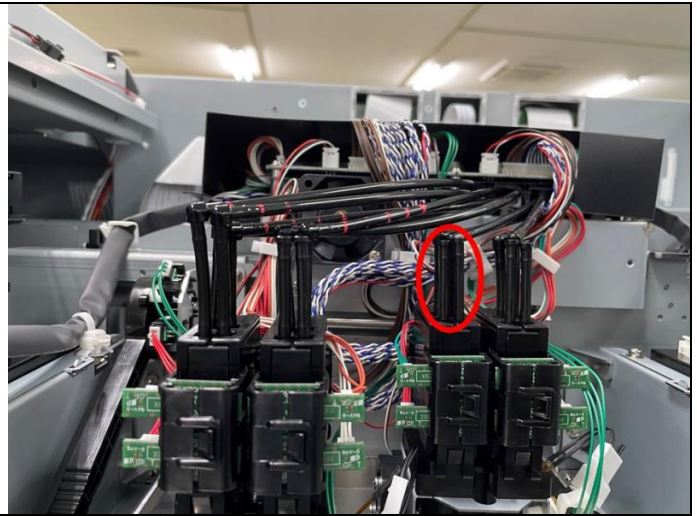
Step 9 / 43

Remove the carriage cover.



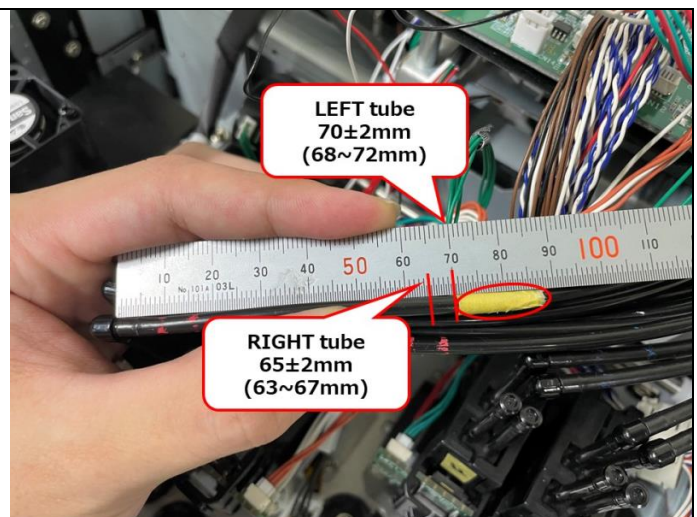
Step 10 / 43

Remove the two tubes on the front side of the right (Head2) head left damper.



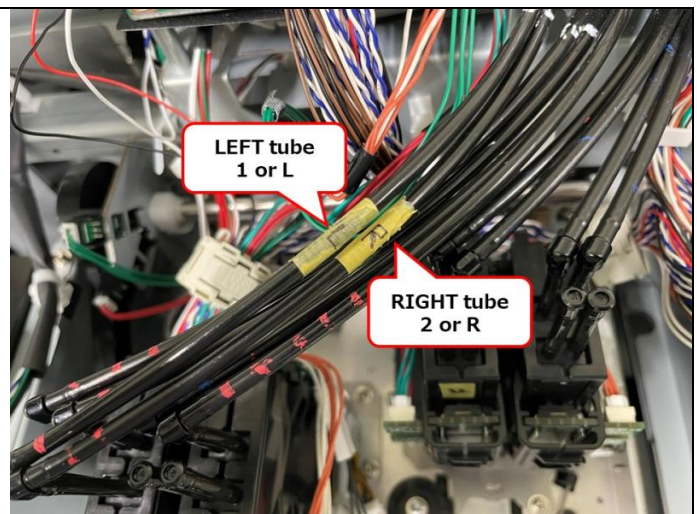
Step 11 / 43

Mark the tube with a tape or other means to cut and identify the tube of the circulation path connected to the front side of the left damper on the left print head (Head1). Mark the tube so that the edge of the marking is at the specified value.



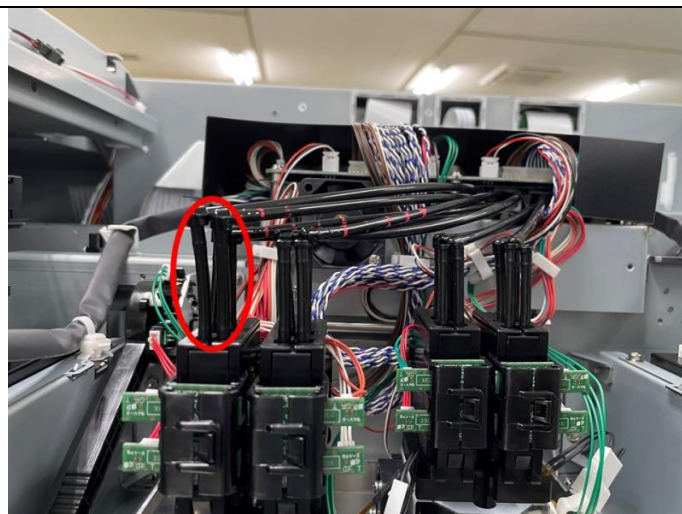
Step 12 / 43

To avoid the mistake in inserting wrong tube when replacing, the connection points should be marked with numbers or L/R so that the connection position can be identified.



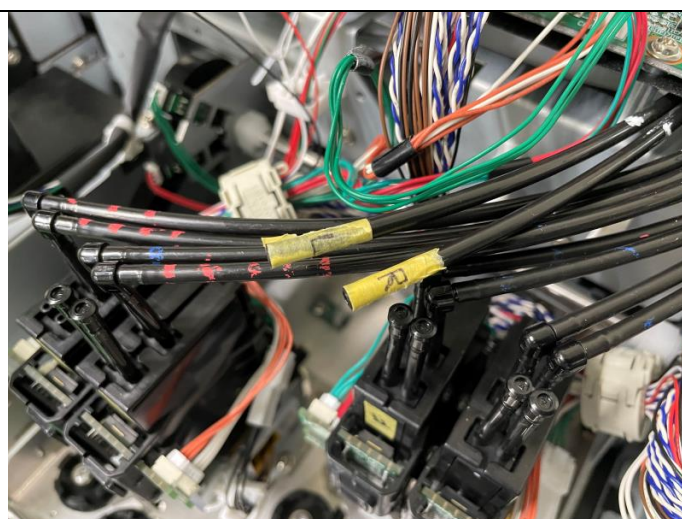
Step 13 / 43

Remove the circulation path tube connected to the front side of the left damper on the left side (Head1). When removing the tube, remove it from the damper connection.



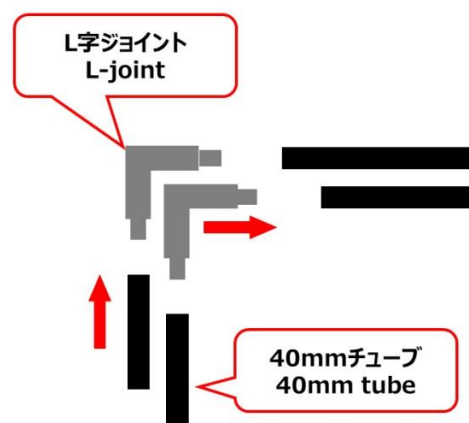
Step 14 / 43

Remove and cut the tube at the cut position you have just marked. (70±2mm)



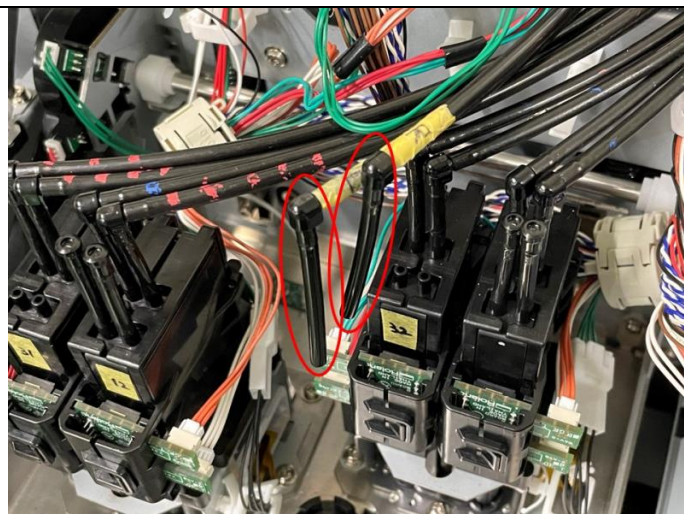
Step 15 / 43

Connect a new L-joint for connection and a 40 mm tube to the end of each cut tube. Be careful not to break the tube and insert the tube up to the base of the joint.



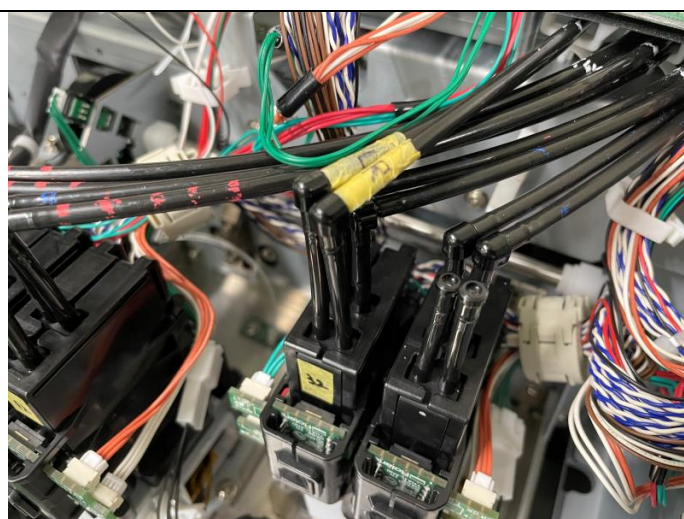
Step 16 / 43

Detail1: Tube connected



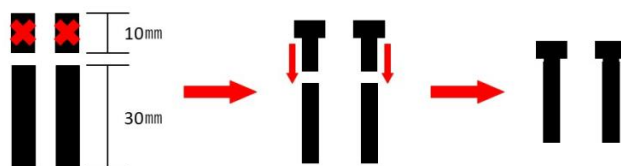
Step 17 / 43

Connect the connected tube to the two paths on the front side of the left damper of the right print head (Head2). Refer to the markings and be careful not to make a left-right insertion mistake.



Step 18 / 43

Cut the new 40 mm tube to 30 mm and connect the new tube stopper. Insert the tube up to the base of the stopper, being careful not to break the tube.



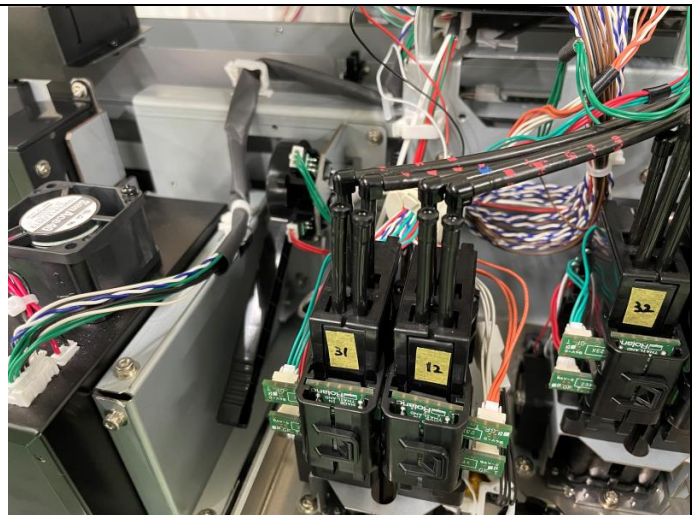
Step 19 / 43

Detail1: Tube connected



Step 20 / 43

Connect the two 30 mm tubes with the tube stopper connected to the front side of the left side (Head1) head left damper.



Step 21 / 43

Attach the carriage cover.



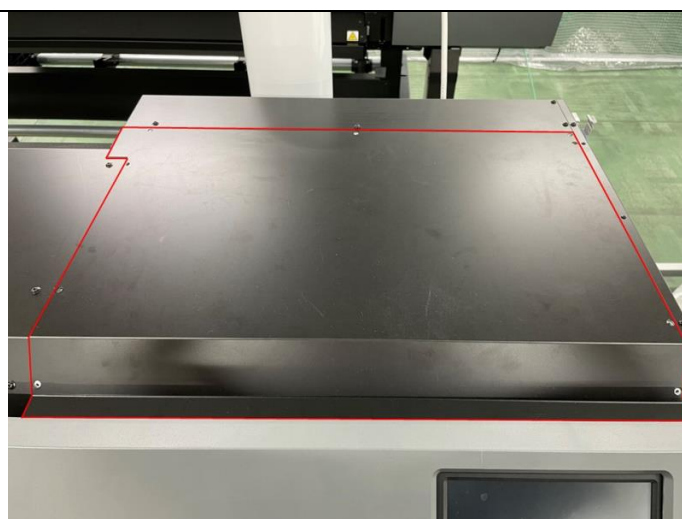
Step 22 / 43

Lock the carriage.



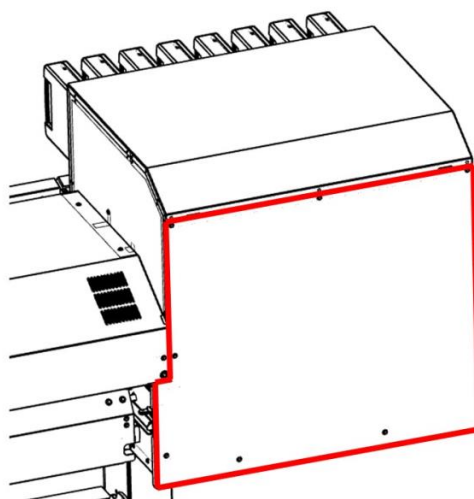
Step 23 / 43

Install the cover.



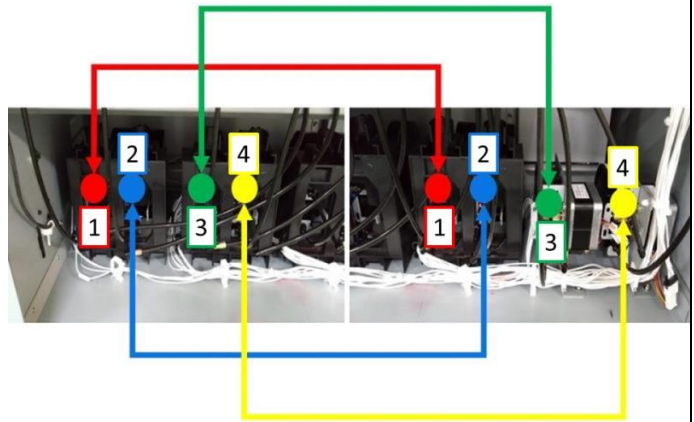
Step 24 / 43

Remove the cover.



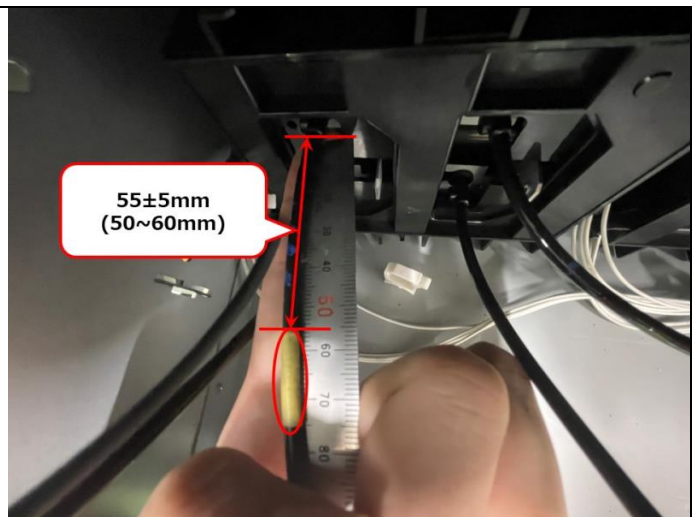
Step 25 / 43

By following the guide from next step, please swap the tubes connected to the pumps from ink cartridge No. 1₄ to 5₈ and viceversa as shown in the figure.



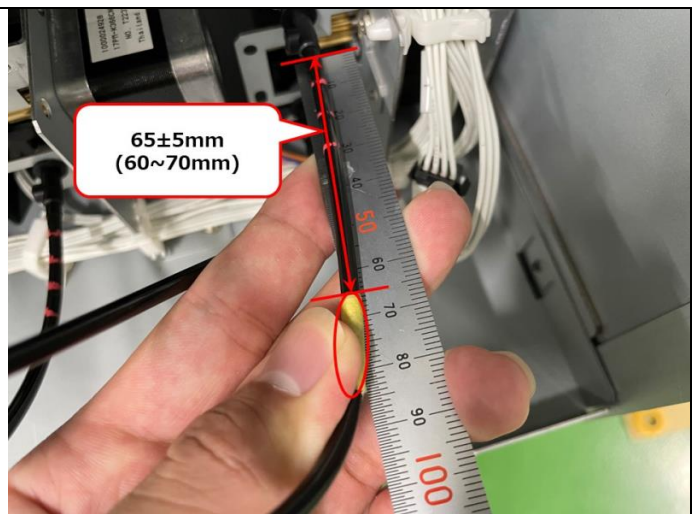
Step 26 / 43

Cut and identify the tube between the pressure pump and print head carriage on the left side (paths 5 to 8) by marking it with tape or other means. Mark the tube so that the end of the marking is at the specified numerical position.



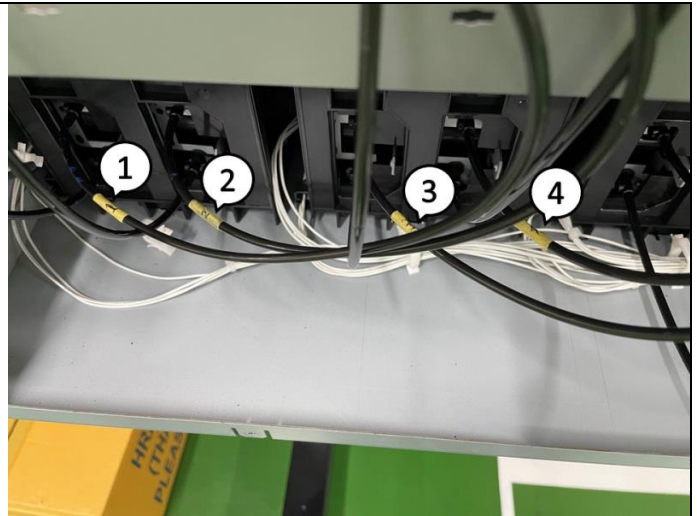
Step 27 / 43

Cut and identify the tube between the right side (path 1 to 4) pressure/circulation pump and print head carriage by marking it with tape or other means. Mark the tube so that the end of the marking is at the specified numerical position.



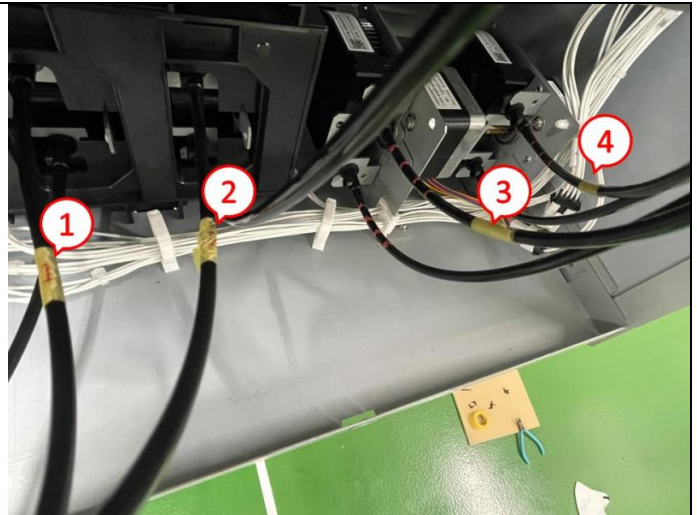
Step 28 / 43

Mark the connection point with a number or the like so that the connection point can be identified in order to prevent incorrect insertion when replacing the ink tube. After the tube is cut, please mark the location where the marking will remain on the tube on the head side. (Example: see image)



Step 29 / 43

Mark the connection point with a number or the like so that the connection point can be identified in order to prevent incorrect insertion when replacing the ink tube. After the tube is cut, please mark the location where the marking will remain on the tube on the head side. (Example: see image)



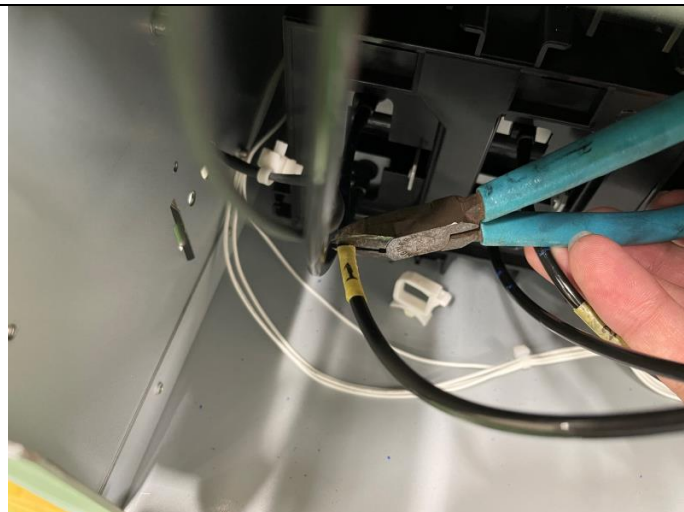
Step 30 / 43

The following operations should be performed one route at a time to prevent misplacement. Refer to the working diagram for where to replace the tube.



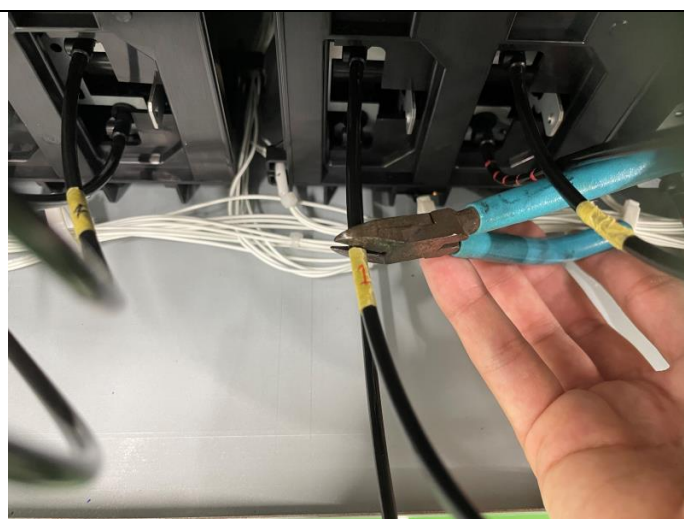
Step 31 / 43

Cut the tube at the position where the tube to be replaced is marked. Do not cut any route other than that of the tube to be replaced.



Step 32 / 43

Cut the tube at the position where the tube to be replaced is marked. Do not cut any route other than that of the tube to be replaced.



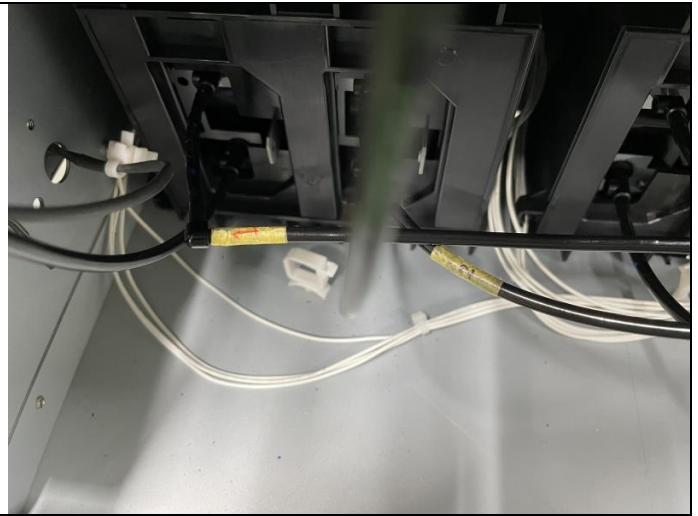
Step 33 / 43

Connect a new L-joint to each end of the cut tubing on the pump side. Insert the tubing up to the base of the joint, being careful not to break the tubing.



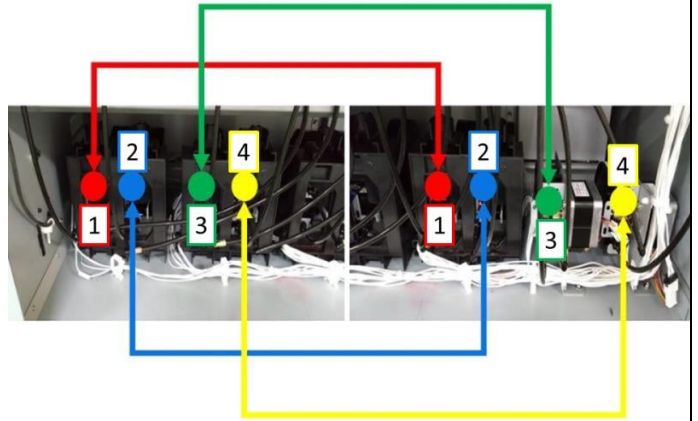
Step 34 / 43

Connect the cut carriage-side tube to the L-shaped joint connected to the pump side to be replaced. (Right pump route tube to left pump joint, left pump route tube to right pump joint) Be careful not to break the tube and insert the tube to the base of the joint.



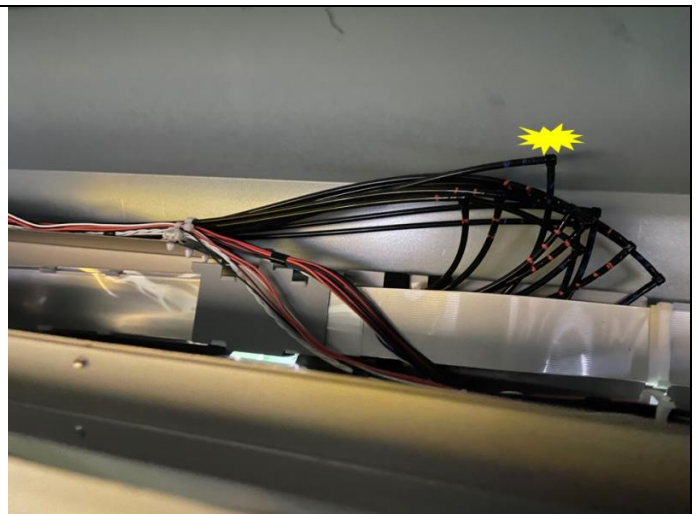
Step 35 / 43

Perform the same process for the remaining three routes, one at a time.



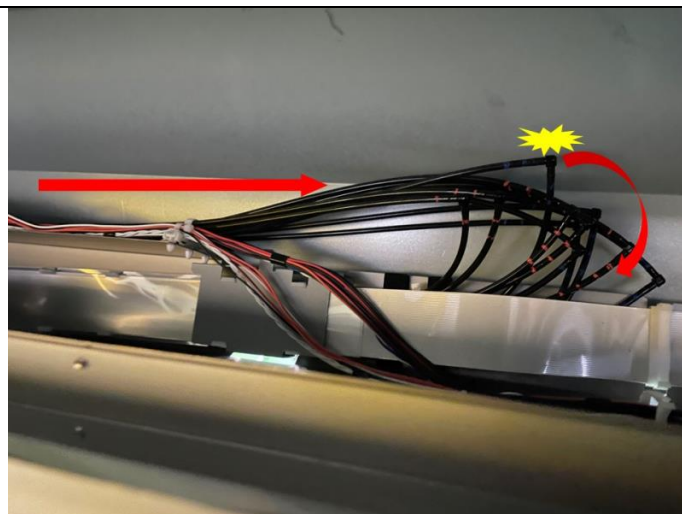
Step 36 / 43

After all the path replacement work is completed, check the tube folding position on the rail from the front of the machine and confirm that there is no contact with the upper part of the folding position (rail cover).



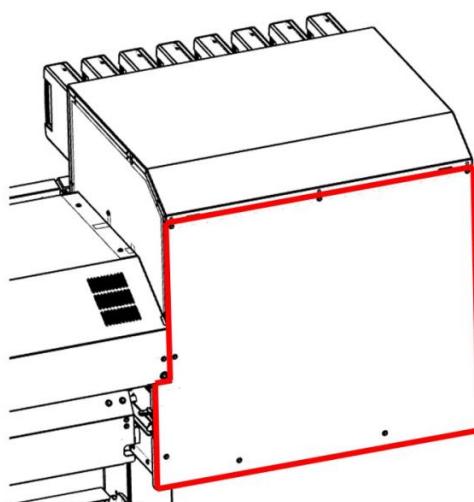
Step 37 / 43

If the tube is in contact with the cover, feed the tube from the pump side and make sure the tube at the folded back position is submerged.



Step 38 / 43

Install the cover.



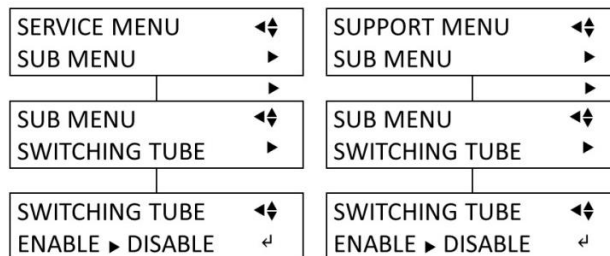
Step 39 / 43

Before starting up the machine in user mode, be sure to perform the following steps to switch ink type settings. If the printer is started in user mode before the ink type is changed, the ink type cannot be selected after the ink type switching because the ink filling sequence starts.



Step 40 / 43

After turning on the power and starting in service/support mode, change the "Service Menu > Sub Menu > Change Inktype > Swtcing" setting to "Enable".



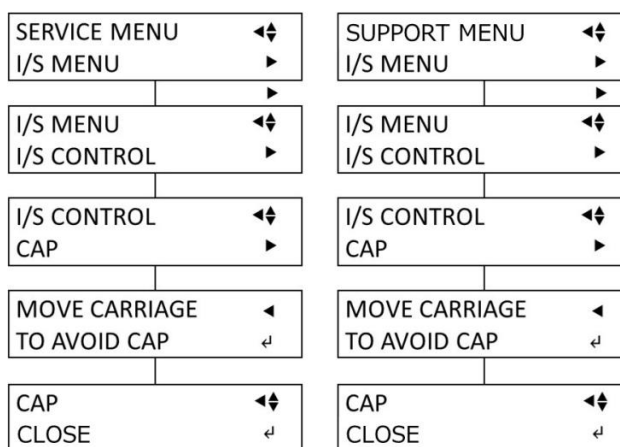
初期値/Default : DISABLE

CMYK→Wh : DISABLE

Wh→CMYK : ENABLE

Step 41 / 43

Make sure the carriage is locked, then close the cap by pressing [I/S MENU] > [I/S CONTROL] > [CAP] > [MOVE CARRIAGE TO AVOID CAP] > [CLOSE]. * Please execute the menu with the carriage locked.



Step 42 / 43

Turn off secondary power.



Step 43 / 43

Turn on the secondary power supply in user mode and follow the manual for ink filling.



次の手順

インク充填

Next Step

Ink Filling

LG-645430 Adjustment after ink filling

LG-645430 Adjustment after ink filling

Information

Step 1 / 3

General Tool

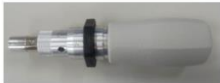
一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
塩ビ/銀メディアまたはSOL-PET vinyl media/Silver media or SOL-PET	
拡大鏡 Magnifying lens	
ライト Flashlight	
六角レンチ (2.0mm) Hexagonal wrench(2.0mm)	

Step 2 / 3

Special Tool

特殊治具/Special Tools

非空転式トルクドライバー No.2 (パーツ名)	
PC	
4COLOR ADJUST用データ Data for 4COLOR ADJUST	

Step 3 / 3

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
吐出確認 Test print	5 min.
BIAS/VERTICAL調整 BIAS/VERTICAL adjustment	6 min.
M-GAP DEFAULT調整 M-GAP DEFAULT adjustment	5 min.
HORIZONTAL調整 HORIZONTAL adjustment	4 min.
4COLOR ADJUST (4色調整のみ) 4COLOR ADJUST(4 colors mode only)	13 min.
M-GAP DEFAULT調整 M-GAP DEFAULT adjustment	5 min.
Print & Cut調整 Print & Cut adjustment	10 min.

Friday, July 4, 2025 6:36 AM

Language: en

LG-645430 Adjustment after ink filling

LG-645430 Adjustment after ink filling Procedure

Step 1 / 48

After manual cleaning and ink filling are completed, perform test print to check the results. If there are missing dots or dot displacement, perform normal cleaning.



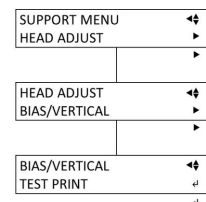
Step 2 / 48

Use a magnifying glass or flash light when checking test patterns.



Step 3 / 48

After checking of test print pattern is completed, print the [BIAS/VERTICAL] test pattern from the [Support menu] or



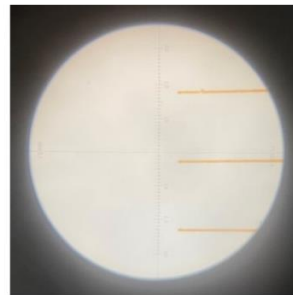
from the [Service menu].



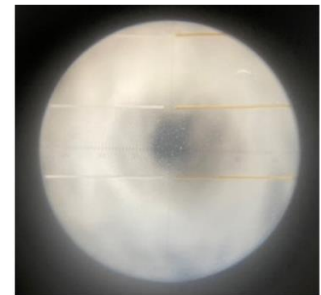
Step 4 / 48

Detail1: You can check the BIAS/VERTICAL test pattern on silver media most easily. SOL-PET and PVC can also be used to check the test pattern, although it may be difficult to see the test pattern depending on the ink type.

Vinyl (White)

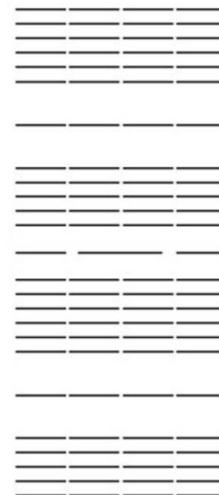


Silver media



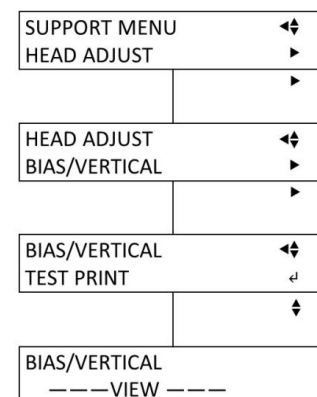
Step 5 / 48

Once the pattern is printed, use a magnifying glass or flash light to check the pattern.



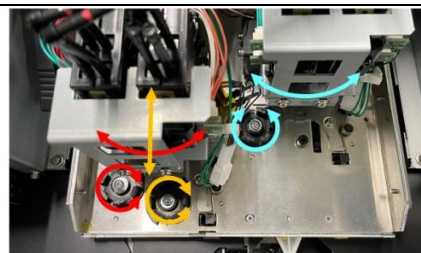
Step 6 / 48

Detail1: Pressing either the up or down button from the [Test Pattern Output] menu will enter the VIEW mode and the media will be fed.



Step 7 / 48

Detail2: There are three areas that need to be checked when making adjustments. Check the line on the left side of each pattern, and use the line on the right side as a guide. The allowable displacement is within 0.5 do



右ヘッド傾き調整
Right head BIAS adjustment

前後位置調整
VERTICAL adjustment

左ヘッド傾き調整
Left head BIAS adjustment



Step 8 / 48

After confirming that the amount of displacement is within 0.5 dots, perform the M-GAP DEFAULT adjustment. If the displacement is not within 0.5 dots, continue with the adjustment.



仕様外の場合は調整を行ってください。

If you get the out of range,
please adjustment.



次の手順

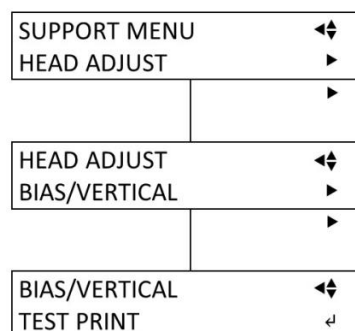
M-GAP DEFAULT調整

Next Step

M-GAP DEFAULT ADJUSTMENT

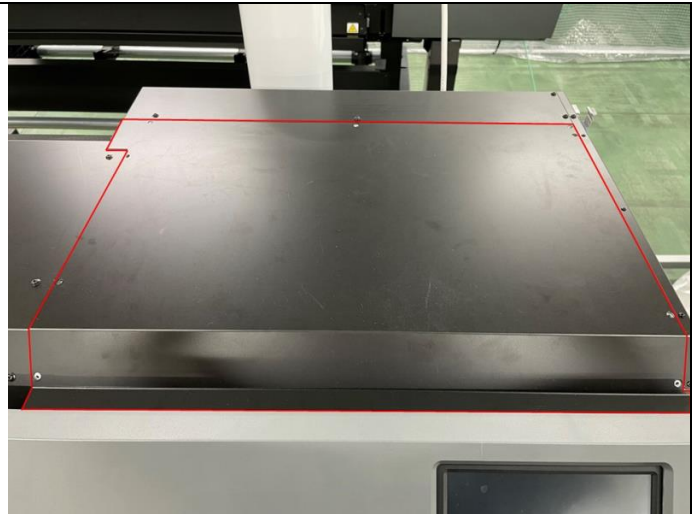
Step 9 / 48

This adjustment can be made with the test pattern output menu displayed.



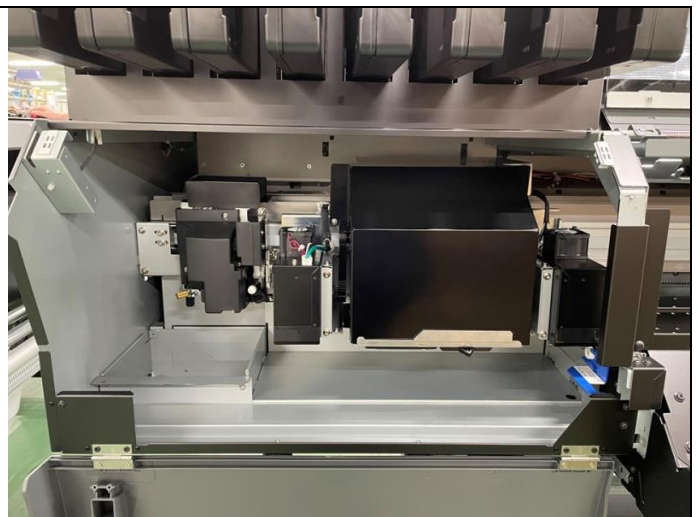
Step 10 / 48

Remove the cover on the top of the print head.



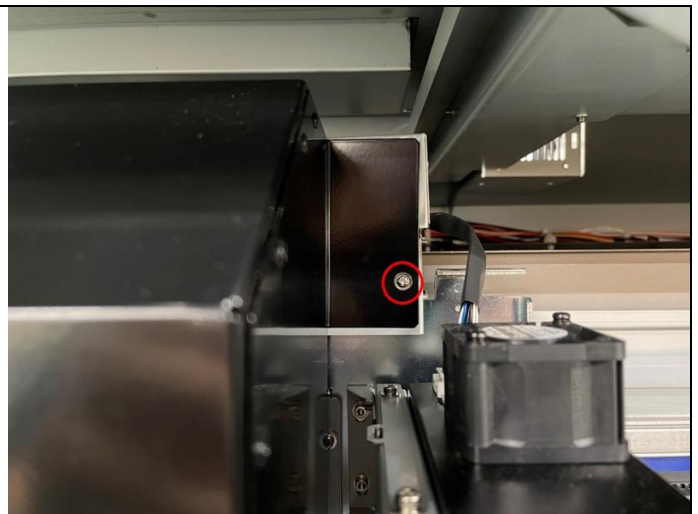
Step 11 / 48

Remove the two screws and remove the carriage cover.



Step 12 / 48

Detail1: Screw to be removed



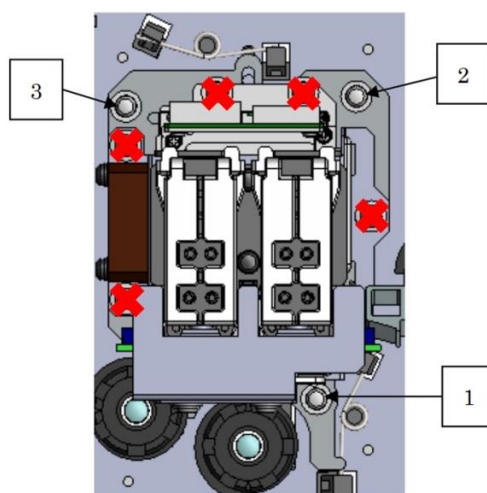
Step 13 / 48

Detail2: Screw to be removed



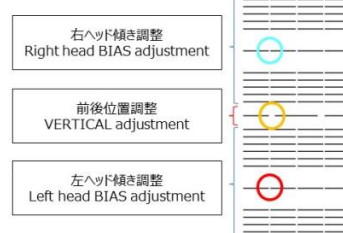
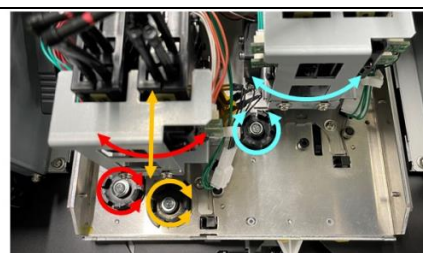
Step 14 / 48

Loosen the screws on the print head to be adjusted (marked in the image), one half turn at a time.



Step 15 / 48

Turn the adjustment gear to match the amount of displacement of the test pattern lines.



Step 16 / 48

Detail1: The adjustment value for one click differs between BIAS and VERTICAL, so please adjust carefully using the values in the image as a guide.

傾き調整/BIAS ADJUSTMENT

24Clicks=1Dot 12Clicks=0.5Dot

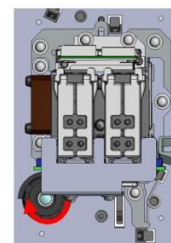
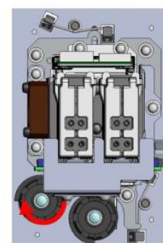
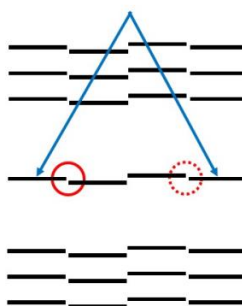
前後位置調整/VERTICAL ADJUSTMENT

6Clicks=1Dot 3Clicks=0.5Dot

Step 17 / 48

Detail2: Adjustment direction for BIAS adjustment dial

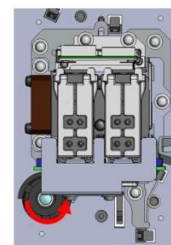
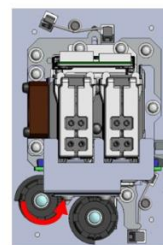
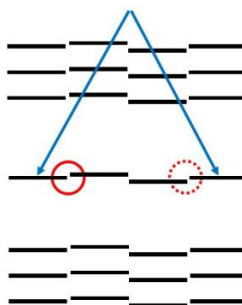
基準線/Reference line



Step 18 / 48

Detail3: Adjustment direction for BIAS adjustment dial

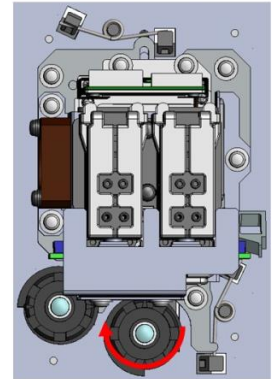
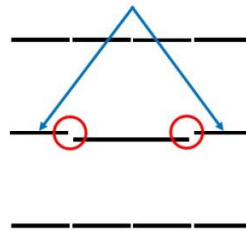
基準線/Reference line



Step 19 / 48

Detail4: Adjustment direction for
VERTICAL adjustment dial

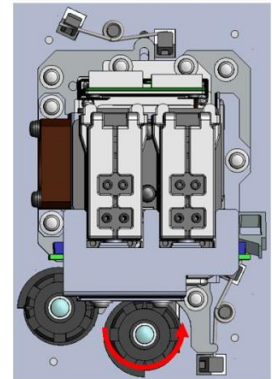
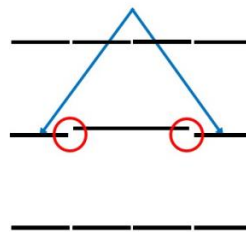
基準線/Reference line



Step 20 / 48

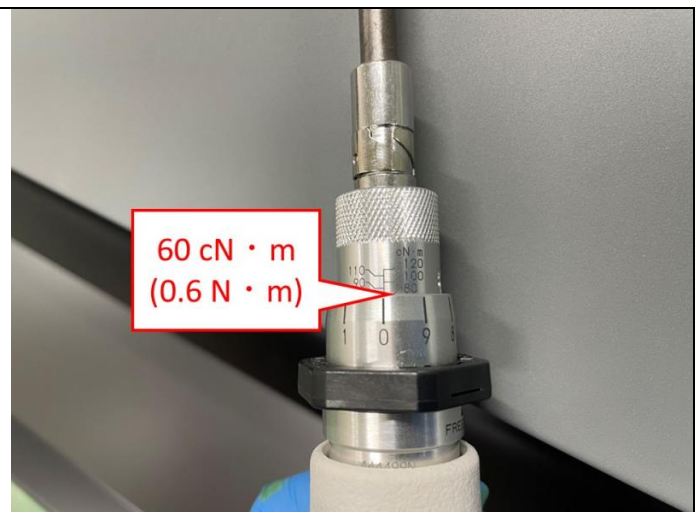
Detail5: Adjustment direction for
VERTICAL adjustment dial

基準線/Reference line



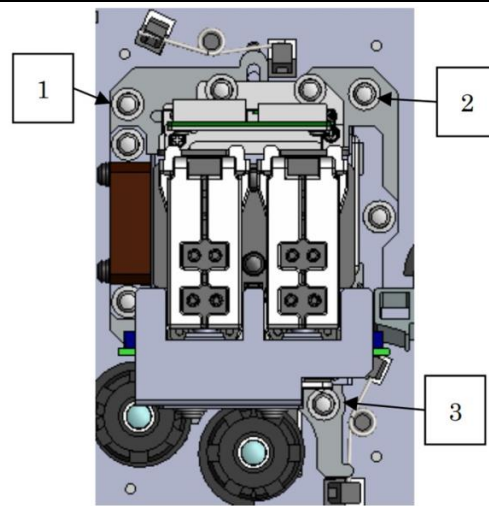
Step 21 / 48

Set the torque screwdriver that does not
generate impact to 0.6 N·m.



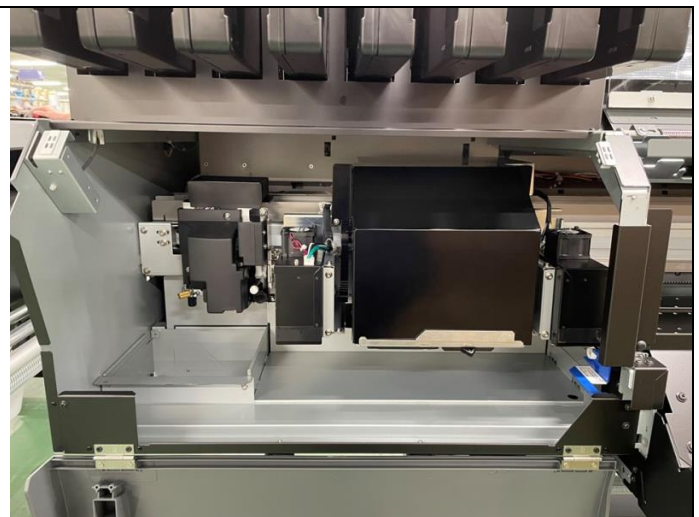
Step 22 / 48

Fasten the screws using a torque screwdriver in the reverse order of the screws loosened before adjustment.



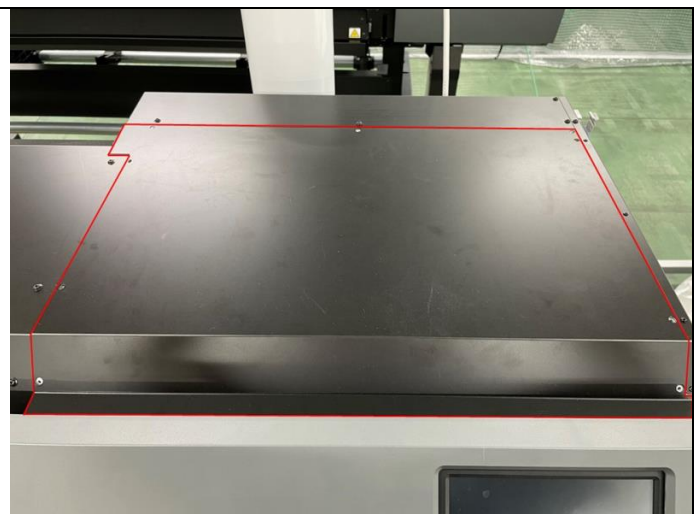
Step 23 / 48

Attach the cover that was removed to shield the UV lamp.



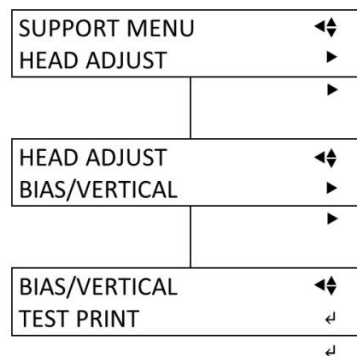
Step 24 / 48

Detail1: Cover to be attached



Step 25 / 48

Print the test pattern again.



Step 26 / 48

Check the adjustment pattern and confirm that the amount of displacement is within 0.5 dots.



Step 27 / 48

If the displacement is within 0.5 dots, perform the M-GAP DEFAULT adjustment; if it is more than 0.5 dots, remove the cover and perform the adjustment procedure again.



仕様外の場合は再度調整を行ってください。

If you get the out of range, please adjustment again.



次の手順

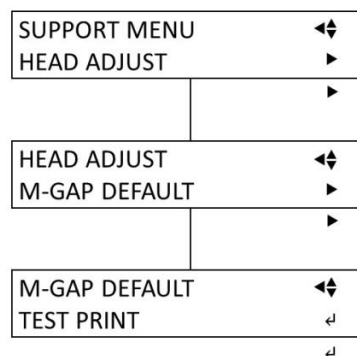
M-GAP DEFAULT調整

Next Step

M-GAP DEFAULT ADJUSTMENT

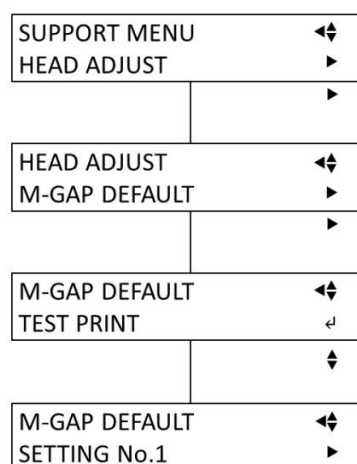
Step 28 / 48

Print the [M-GAP DEFAULT] test pattern from the support menu or service mode.



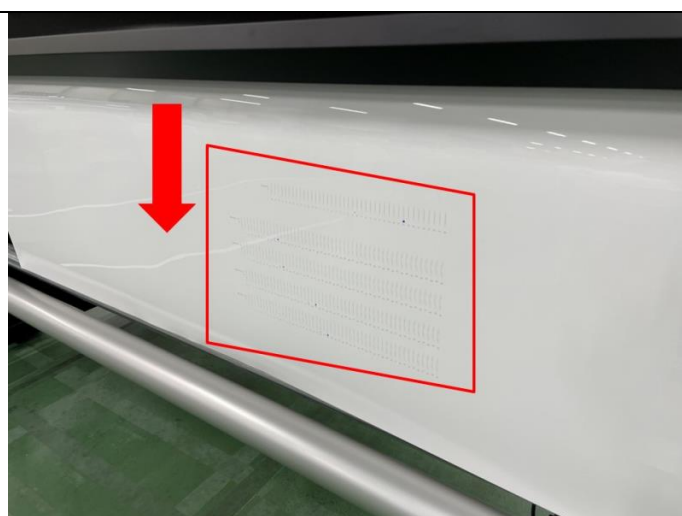
Step 29 / 48

After the test pattern is printed, press [] to go to the adjustment value input menu.



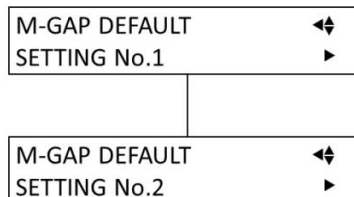
Step 30 / 48

Detail1: Only when the support menu is activated, the media will be fed when you enter the adjustment value input menu. Check the adjustment values.



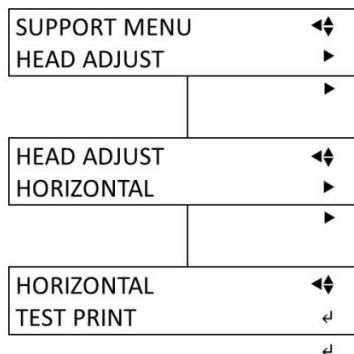
Step 31 / 48

Enter all appropriate adjustment values
for both SETTING No.1/2 and press [ENTER].



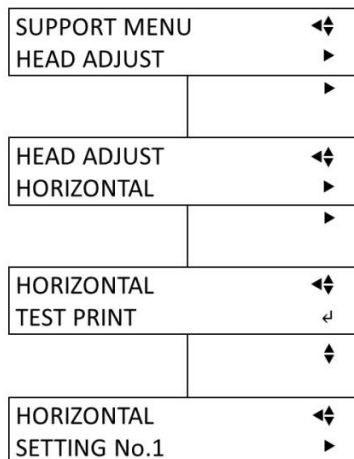
Step 32 / 48

Print [HORIZONTAL] test pattern from
the Support menu or Service mode.



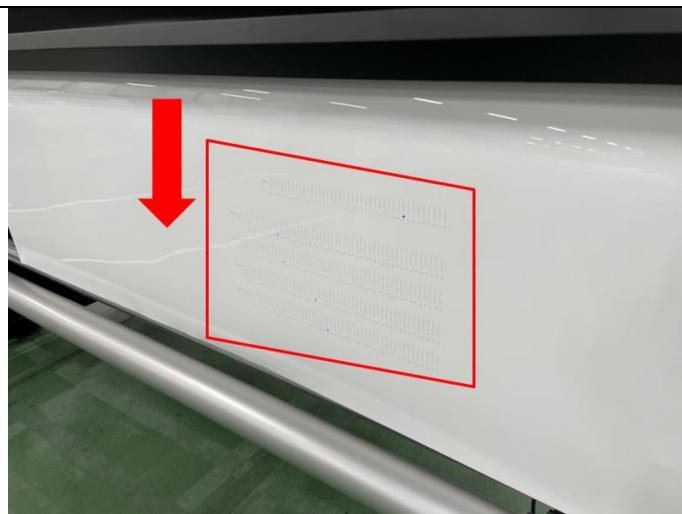
Step 33 / 48

After the test pattern is printed, press [] to go to the adjustment value input menu.



Step 34 / 48

Detail1: As with the M-GAP DEFAULT adjustment, only when the support menu is activated, the media will be fed when you enter the adjustment value input menu. Check the adjustment values.



Step 35 / 48

Enter the adjustment value confirmed in SETTING No. 1 and press [ENTER].

M-GAP DEFAULT	◀▶
SETTING No.1	▶

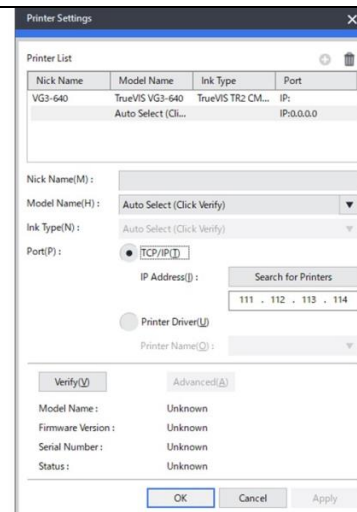
Step 36 / 48

This adjustment needs to be done only for 4-color ink type machines; 7- or 8-color machines do not need to do this work. Note: Use SOL-PET or PVC media.



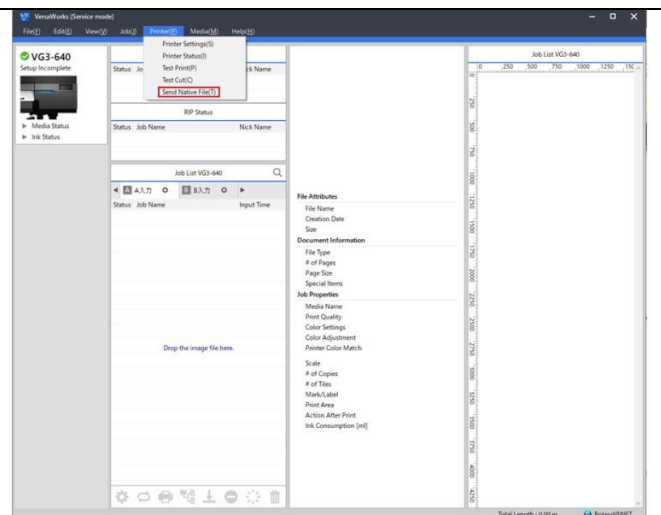
Step 37 / 48

Start VersaWorks and connect it to the machine.



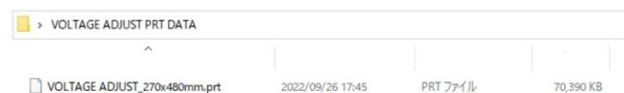
Step 38 / 48

Print PRT data for 4 COLOR ADJUST from VersaWorks.



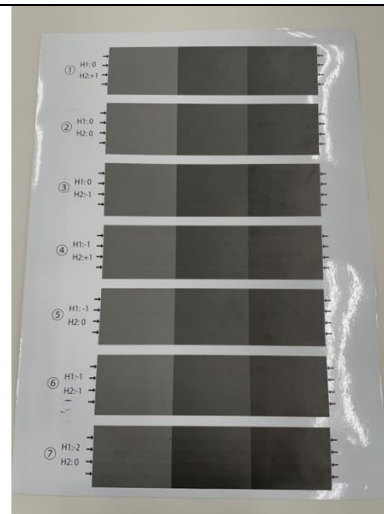
Step 39 / 48

Detail1: Select output data for adjustment.



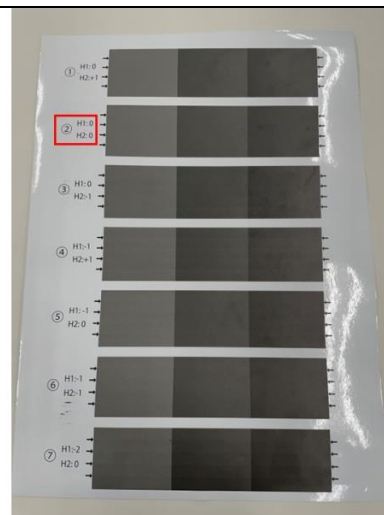
Step 40 / 48

Seven patterns with three levels of shading are printed.



Step 41 / 48

Select the pattern with the least banding among them and check the H1/2 V value listed next to the selected pattern.



Step 42 / 48

Enter the confirmed values for H1/2 respectively from the input menu.

HEAD ADJUST	◀▶	HEAD ADJUST	◀▶
4COLOR ADJ.	▶	4COLOR ADJ.	▶
▶		▶	
4COLOR ADJ.	◀▶	4COLOR ADJ.	◀▶
HEAD 1	▶	HEAD 2	▶
▶		▶	
HEAD 1	◀▶	HEAD 2	◀▶
VDD2ALL	▶	VDD2ALL	▶
▶		▶	
VDD2ALL	◀▶	VDD2ALL	◀▶
0.0 ▶ 0.0 ◀	◀	0.0 ▶ 0.0 ◀	◀

Step 43 / 48

As with the 4 COLOR ADJUST, this adjustment needs to be performed only on 4-color ink type machines, and does not need to be performed on 7- or 8-color machines.



Step 44 / 48

4 COLOR ADJUST adjusts the ink ejection rate by changing the voltage applied to the print head. If the voltage is changed, the ejection rate will also change, so please perform the M-GAP DEFAULT adjustment again.

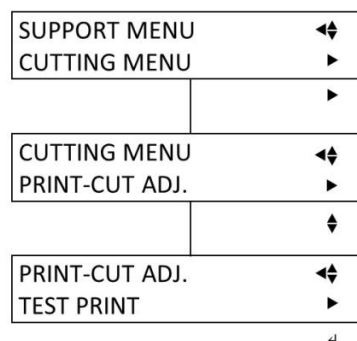


M-GAP DEFAULT調整を再度行ってください。

Please do the M-GAP DEFAULT ADJUSTMENT again.

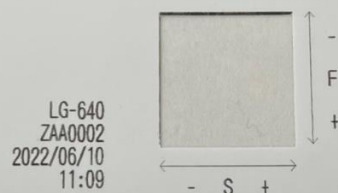
Step 45 / 48

[PRINT-CUT ADJ] from the Support menu or the Service menu. Print a test pattern. Use vinyl media.



Step 46 / 48

After the test pattern is printed,
measure the print result and the
amount of cut displacement.



Step 47 / 48

Enter the adjustment values for SCAN
and FEED respectively.

CUTTING MENU		↔
PRINT-CUT ADJ.		▶
		▶
PRINT-CUT ADJ.		↔
TEST PRINT		▶
		↕
PRINT-CUT ADJ.		↔
SETTING		▶
		▶
F: 0.00	▶ 0.00	↔
S: 0.00	▶ 0.00	↕

Step 48 / 48

Return to the work in Setup Guide.

Next Step
[Setup Guide]

4. Downloading and Installing Software

4. Downloading and Installing Software

A connection to the Internet is required to download and install the software.

Among the various pieces of software to use with this machine, first download and install Roland DG Connect Hub on the computer to connect to the machine. Then, install the other required software.

Downloading Roland DG Connect Hub

Procedure

1. Start the computer and log on as the "Administrator" or an "Administrator" account.
Shut down all other programs.
Only the account with "Administrator" rights that was used to install this software can use it.
2. Access the following website on the computer where the software will be downloaded.
<https://downloadcenter.rolanddg.com/LG-AGSoftware>
Depending on where you live, you may be asked to complete user registration before downloading the software.
3. Click [Roland DG Connect / Connect Hub].
4. Click [Install / Update].
The explanation window for Roland DG Connect appears.
5. Click [Next].
6. Read the license agreement for the software. If you agree with the contents, click [Agree].
7. Download [RolandDG_Connect_Setup.exe] to an arbitrary location.

LG-645430 Print Head Replacement

LG-645430 Print Head Replacement Information

Step 1 / 4

Necessary tools

一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
手袋 Groves	
保護メガネ Goggle	
ウエス Rag	

Step 2 / 4

Necessary tools

一般ツール/General Tool

クリーニングスティック Cleaning stick	
CJ-CL	
ESL5-CL	

Step 3 / 4

Special Tool

特殊治具/Special Tools

TORQUE DRIVER, LTD120CN	
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Step 4 / 4

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
ヘッド交換 Head replacement	30 min.
調整 Adjustment	20 min. 38 min.(4colors mode)

LG-645430 Print Head Replacement

LG-645430 Print Head Replacement

Procedure

Step 1 / 107

The print head is supplied with eight 40 mm tubes and four stoppers.

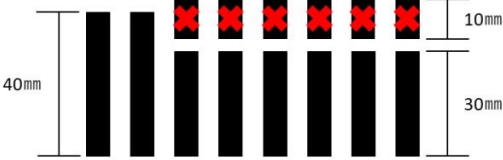
ストッパー/ Stopper
4 個/4 Pieces

40mm チューブ/40mm Tube
8 本/8 Pieces



Step 2 / 107

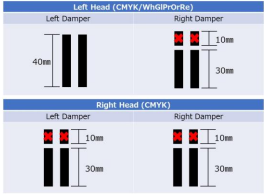
When replacing the left print head: Cut 6 tubes (except 2 tubes that will be used for circulation tube) by 10 mm to make 30 mm tubes.



Step 3 / 107

For CMYK > Wh (including CMYK×2)

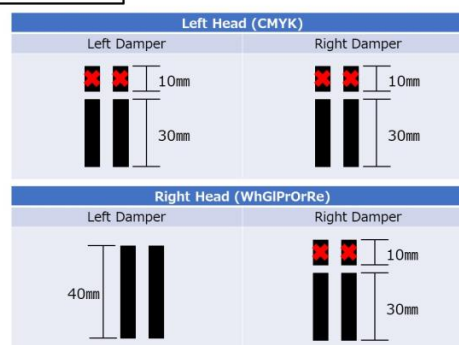
CMYK CMYK/CMYK > Wh



Step 4 / 107

For Wh > CMYK

Wh > CMYK

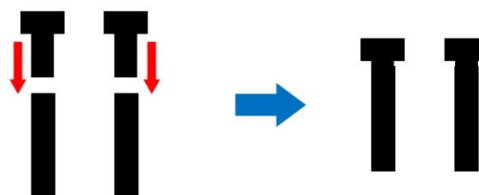


Step 5 / 107

Attach the stoppers to two 30 mm tubes.

Four stoppers are included in the package because four stoppers are used when replacing the right print head.

However, when you replace the left print head, you only need two stoppers.



Step 6 / 107

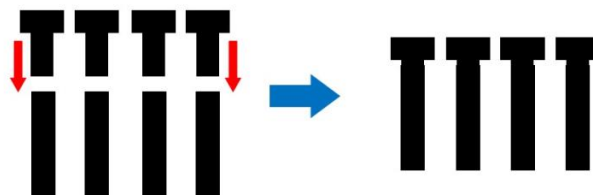
When replacing the right print head:

Cut all 8 tubes included in the package to 30 mm.



Step 7 / 107

Attach stoppers to the four tubes.



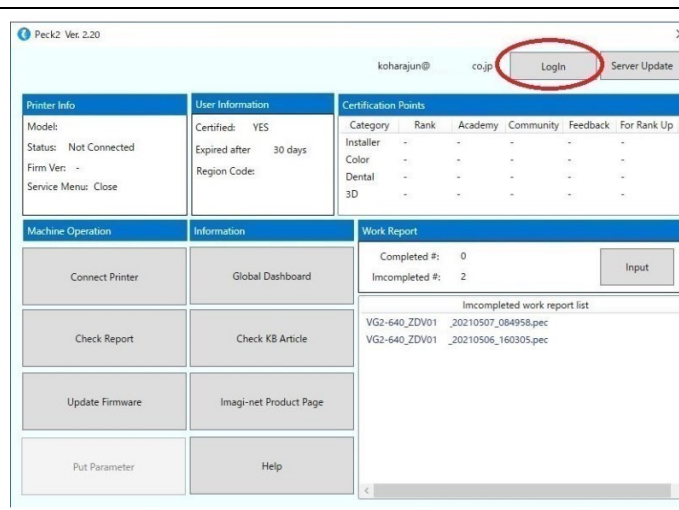
Step 8 / 107

Start Peck2.



Step 9 / 107

Detail1: Click the Login button.



Step 10 / 107

Detail2: : Log in with your Imagi-net ID.

Sign in to your account

Microsoft

Select an account

 Jun Koh
koharajun@
Window

利用規約

プライバシーとCookie

...

Step 11 / 107

Detail3: Click [Connect Printer].

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

Printer Info

Model:

Status: Not Connected

Firm Ver: -

Service Menu: Close

User Information

Certified: YES

Expired after: 30 days

Region Code:

Certification Points

Category	Rank	Academy	Community	Feedback	For Rank Up
Installer	-	-	-	-	-
Color	-	-	-	-	-
Dental	-	-	-	-	-
3D	-	-	-	-	-

Machine Operation

Connect Printer

Check Report

Update Firmware

Put Parameter

Information

Global Dashboard

Check KB Article

Imagi-net Product Page

Help

Work Report

Completed #: 0

Imcompleted #: 2

Input

Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Step 12 / 107

Detail4: Enter the IP address of the machine to be connected.

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

Printer Info

Model:

ConnectPrinter

Select: VG2-640(11 .129.52)

Input IP Address:

Connect

Close

User Information

Certified: YES

Expired after: 30 days

Certification Points

Category	Rank	Academy	Community	Feedback	For Rank Up
Installer	Certified	0	*	*	*
Color	0	0	0	200	
Dental	0	0	*	200	
3D	0	0	*	200	

Machine Operation

Global Dashboard

Check Report

Check KB Article

Update Firmware

Imagi-net Product Page

Put Parameter

Help

Work Report

Completed #: 0

Imcompleted #: 2

Input

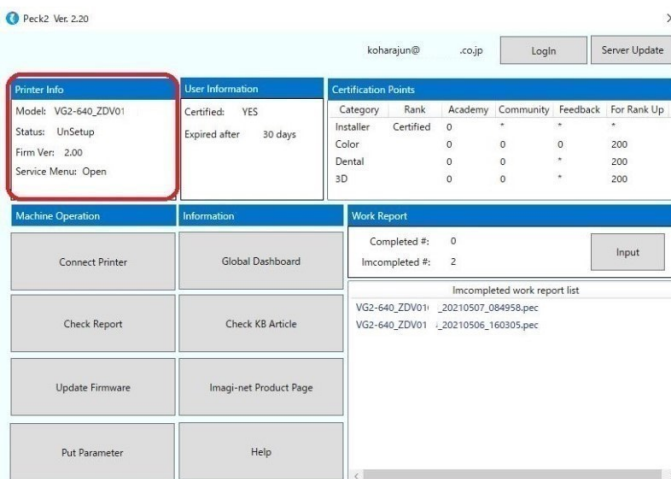
Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

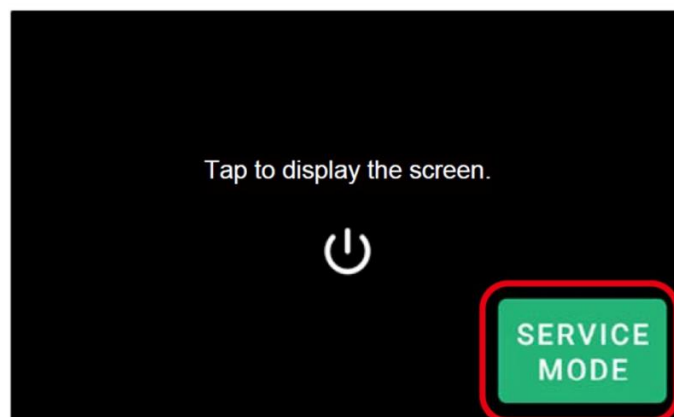
Step 13 / 107

Detail5: When connected to a printer, printer information is displayed in [Printer Info].



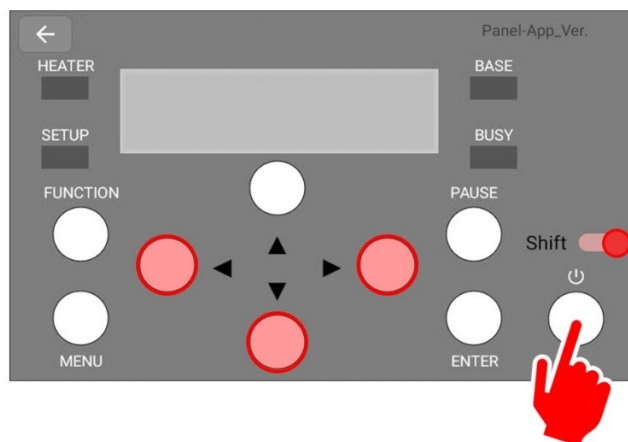
Step 14 / 107

Detail6: Select the service mode in the panel.



Step 15 / 107

Detail7: Press the machine panel [Shift] > []+[]+[]+[Sub Power] to enter the service mode. Turning the [Shift] button ON allows you to press multiple buttons at the same time.



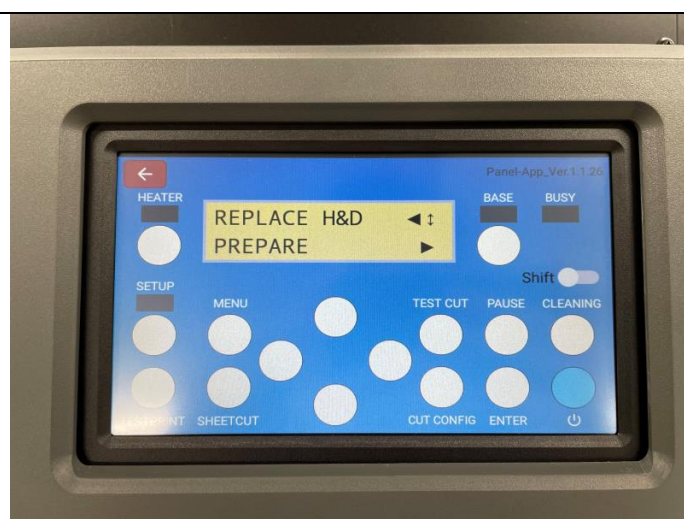
Step 16 / 107

Open [REPLACE H&D] from the [SUB MENU] in the [SERVICE MENU].



Step 17 / 107

With [PREPARE] displayed, click [□] to select the group of print head to be replaced.



Step 18 / 107

Select the group corresponding to the print head to be replaced.



Step 19 / 107

A: Left print head.



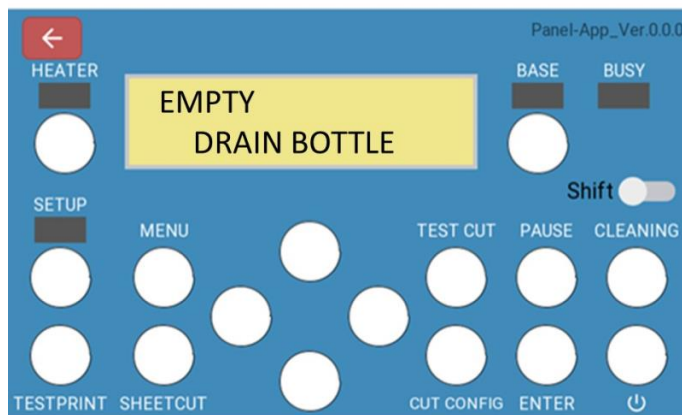
Step 20 / 107

B: Right print head.



Step 21 / 107

Discard the waste liquid.



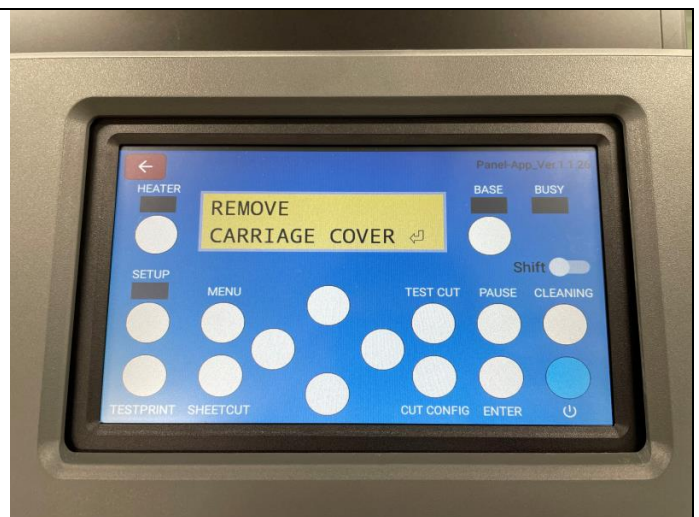
Step 22 / 107

When you press [ENTER], the carriage moves to the position where you can remove the carriage cover.



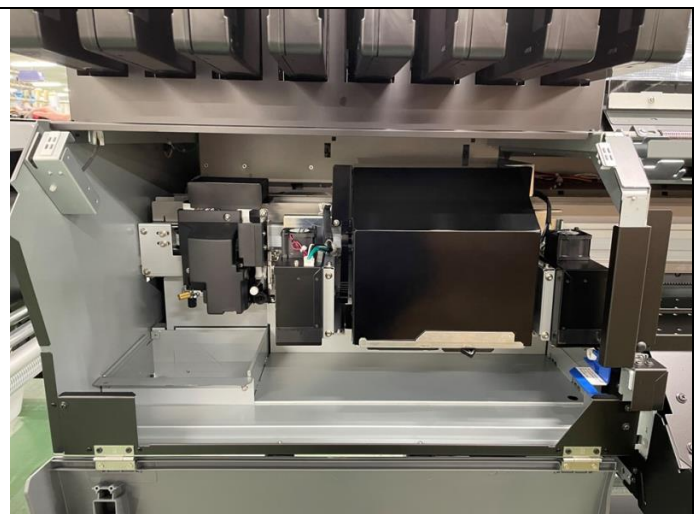
Step 23 / 107

When the panel shows [REMOVE CARRIAGE COVER], remove the cover of the carriage that has been moved to the maintenance space.



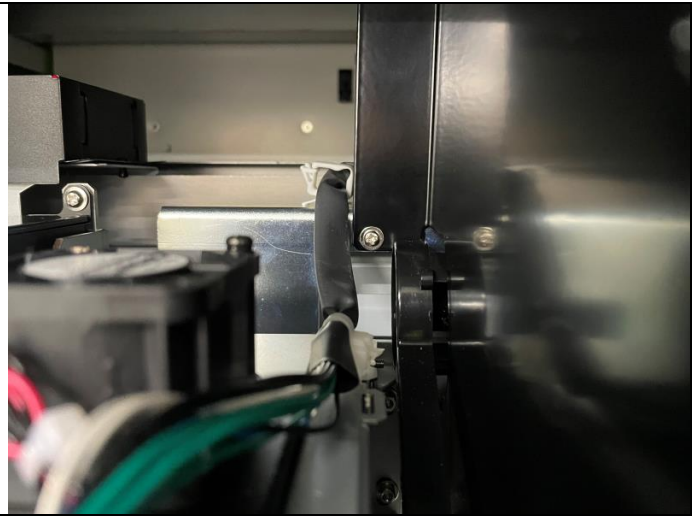
Step 24 / 107

Detail1: Carriage cover



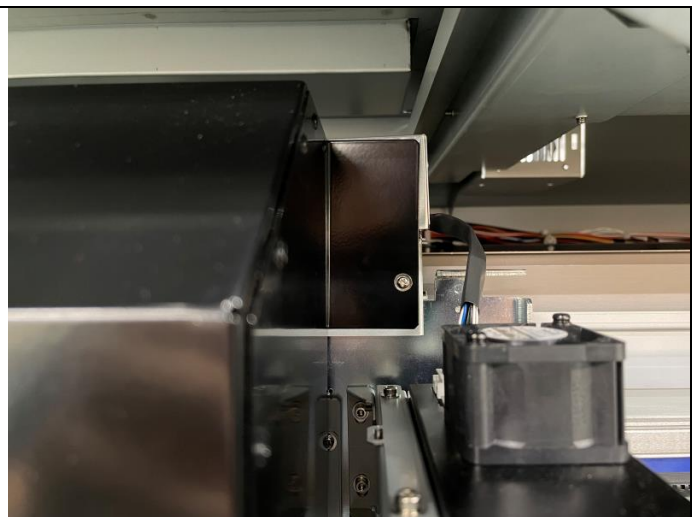
Step 25 / 107

Detail2: Screw position



Step 26 / 107

Detail3: Screw position



Step 27 / 107

Press [ENTER] to return the carriage to the home position.



Step 28 / 107

Wear gloves and protective eyewear.



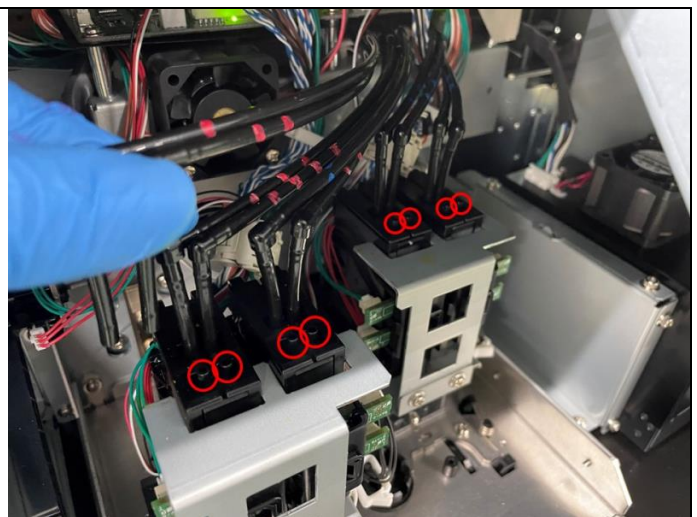
Step 29 / 107

When [REMOVE FRONT TUBE] appears, pull out the front tubes attached to the print head to be replaced and press [ENTER]. *Ink may leak out, so please prepare a dry cloth and remove the tubes. You will reattach this tubes, so please make sure you know where the tubes are connected.



Step 30 / 107

Detail1: Tubes to be removed



Step 31 / 107

Reattach the front ink tubes you just removed and press [ENTER]. *Please make sure to connect the same tubes you just disconnected, as this may cause color mixing, etc.



Step 32 / 107

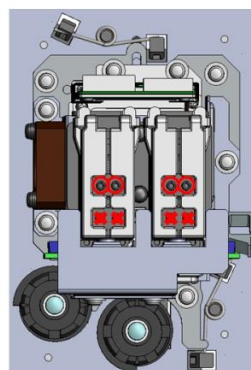
Pull out the back tubes attached to the print head to be replaced and press [ENTER]. Ink may leak out, so please prepare a dry cloth and remove the tubes.



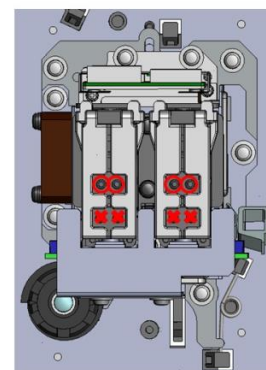
Step 33 / 107

Detail1: Tubes to be removed

左ヘッド/Left Head



右ヘッド/Right Head



Step 34 / 107

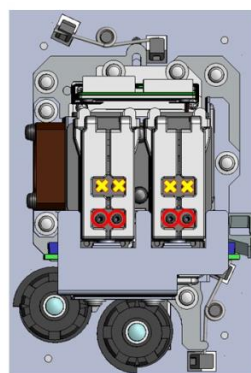
Pull out the tube on the front side of the print head to be replaced again and press [ENTER]. The ink discharge sequence will begin.



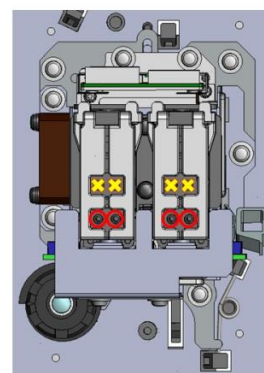
Step 35 / 107

Detail1: Tubes to be removed

左ヘッド/Left Head



右ヘッド/Right Head



Step 36 / 107

When the removing tube instruction is completed, sub power is turned off automatically.



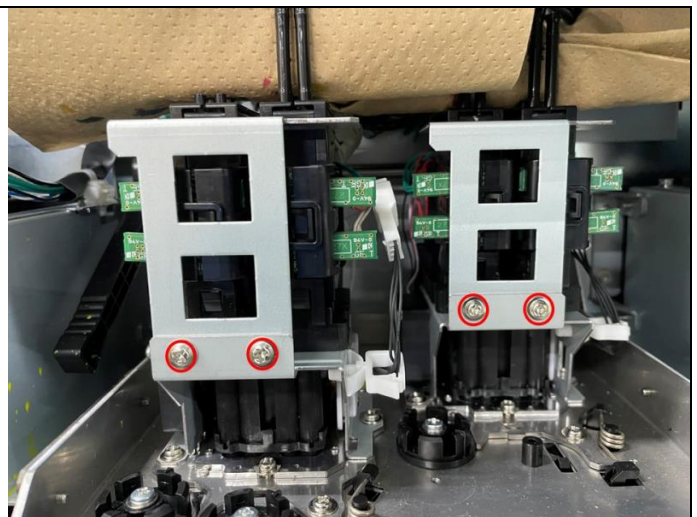
Step 37 / 107

Turn off the main power after the sub power is turned off.



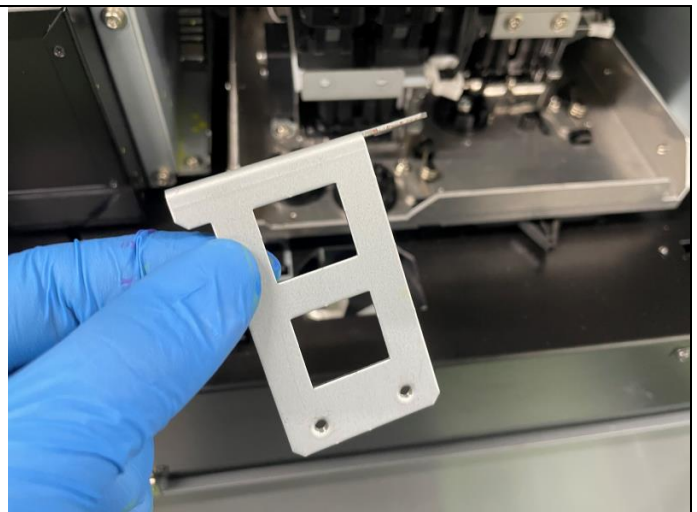
Step 38 / 107

Remove the sheet metal attached to the front of the damper. Pull it upward after removing the screws.



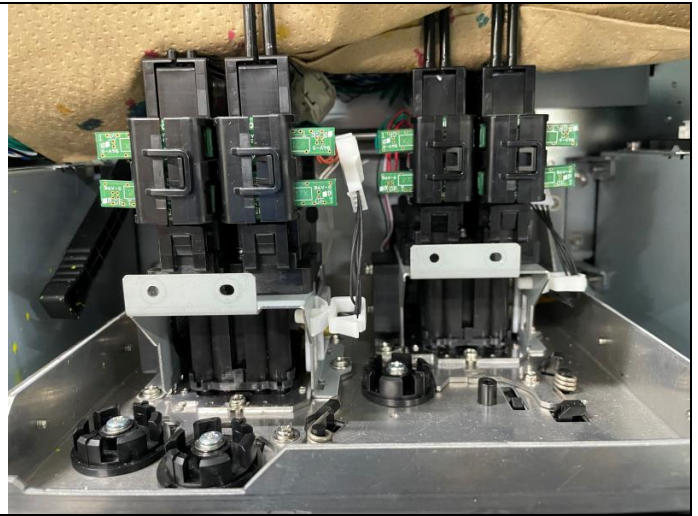
Step 39 / 107

Detail1: Parts to be removed



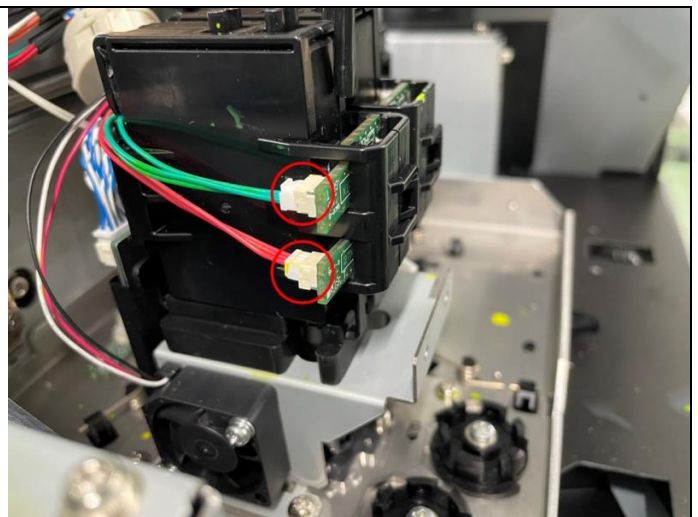
Step 40 / 107

Detail2: After removing the sheet metal



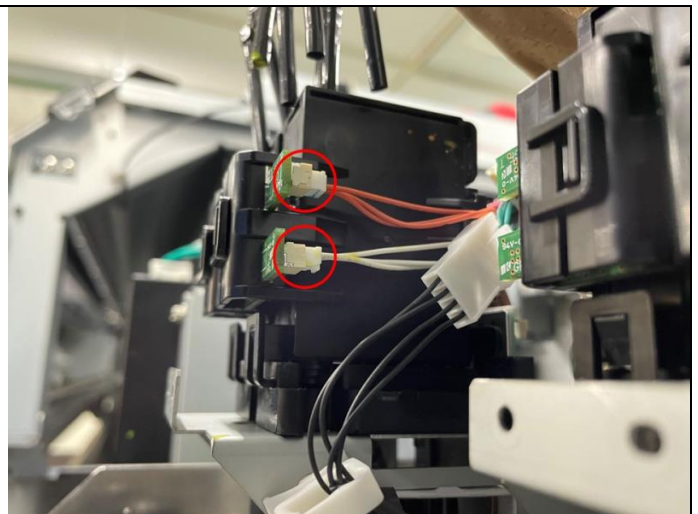
Step 41 / 107

Remove the four pressure sensor connectors. *Left side



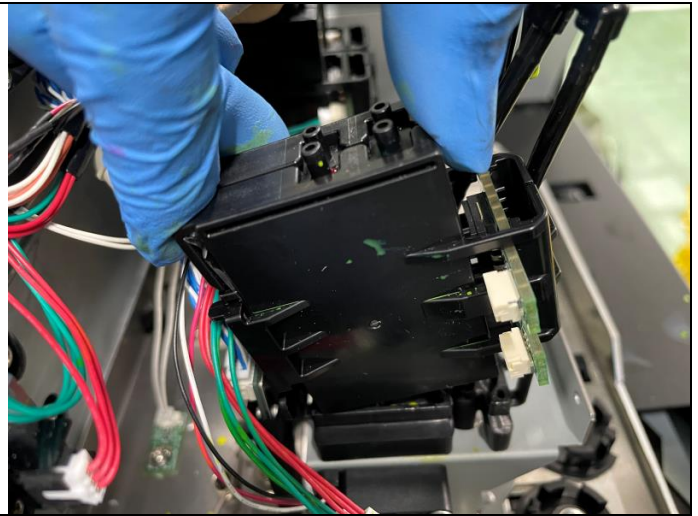
Step 42 / 107

Detail1: Right side



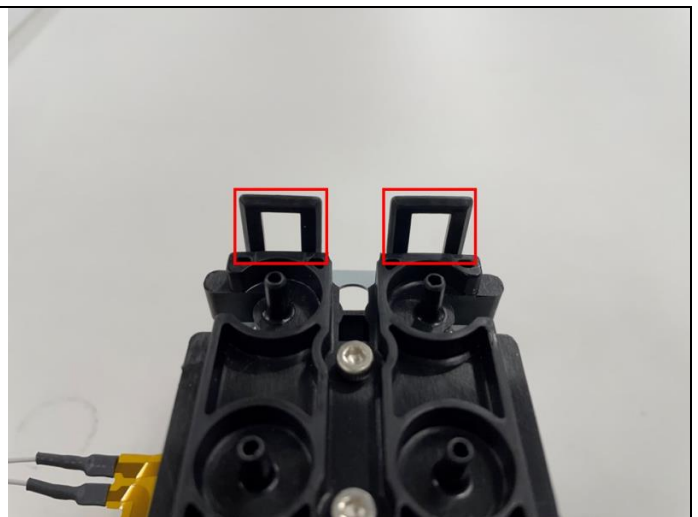
Step 43 / 107

Remove the damper.



Step 44 / 107

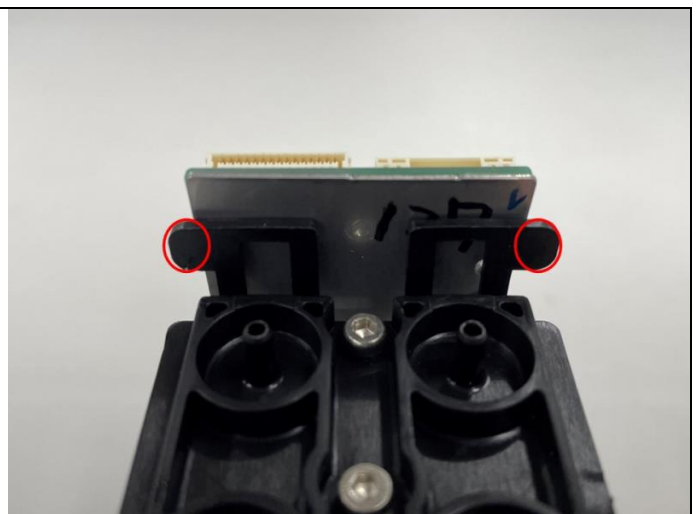
Detail1: The damper is fitted with claws, so please remove them. Front view



Step 45 / 107

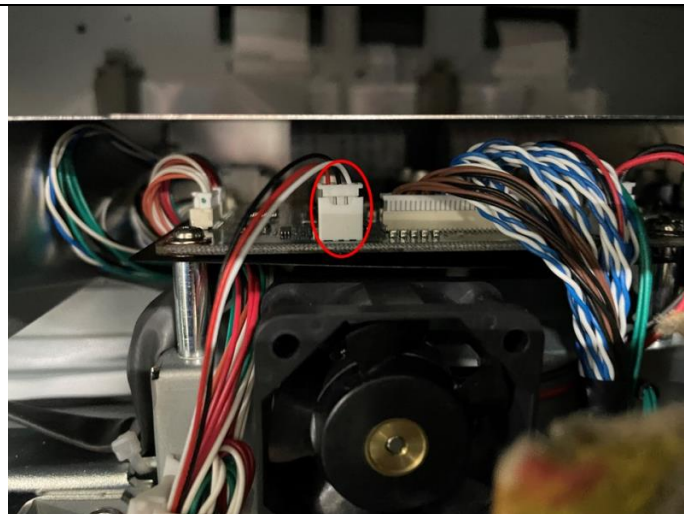
Detail2: The back of the damper also has claws, which can be easily removed by pushing the red circle toward the back.

Rear view



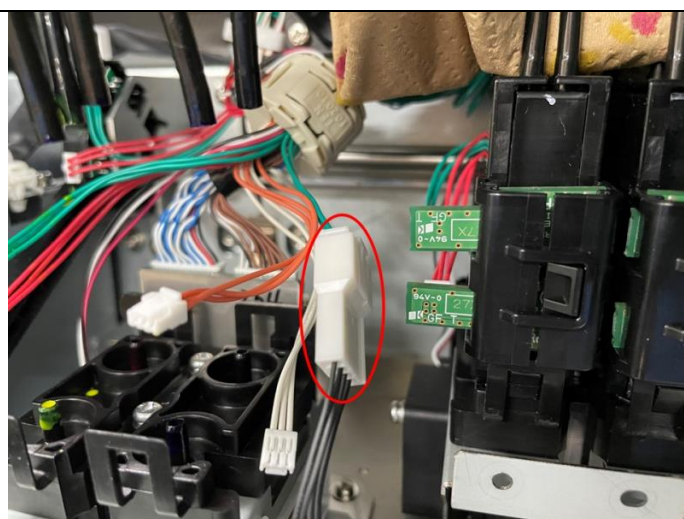
Step 46 / 107

Disconnect the print head cooling fan connector connected to the print carriage board.



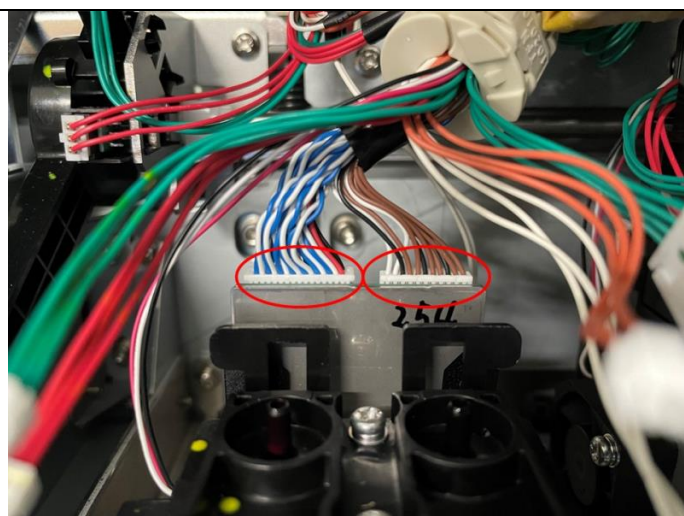
Step 47 / 107

Remove the connector connected to the head heater.



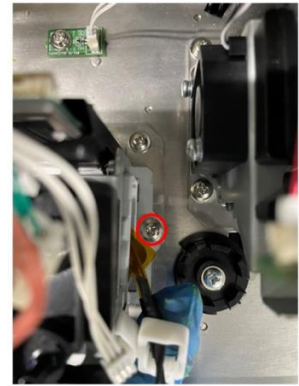
Step 48 / 107

Remove the two connectors connected to the print head. *Take care not to disconnect the terminals when pulling them out.



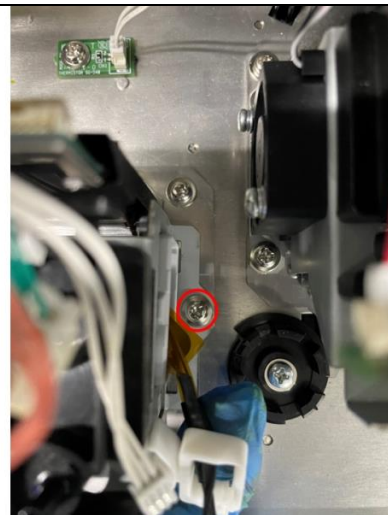
Step 49 / 107

Remove the three adapter fixing screws
securing the head plate.



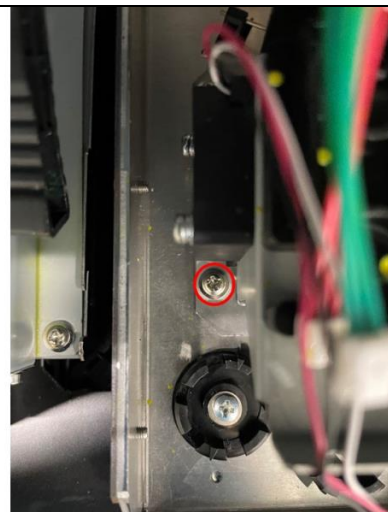
Step 50 / 107

Detail1: Right side



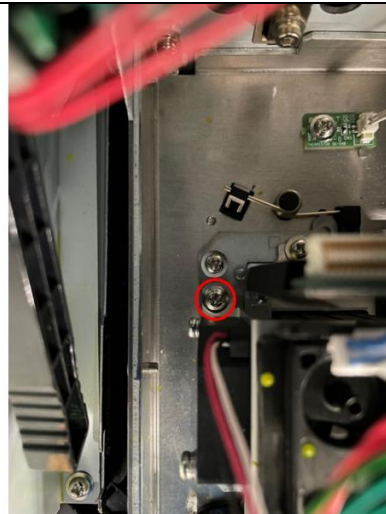
Step 51 / 107

Detail2: Left front



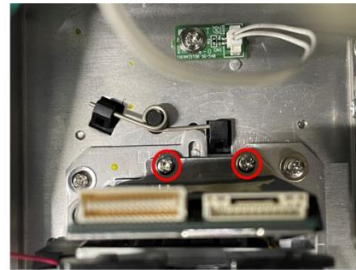
Step 52 / 107

Detail3: Far left



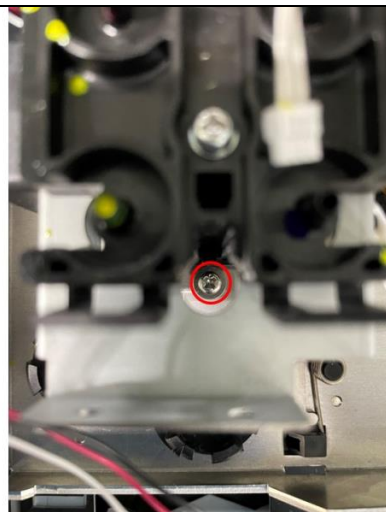
Step 53 / 107

Remove the three screws securing the print head.



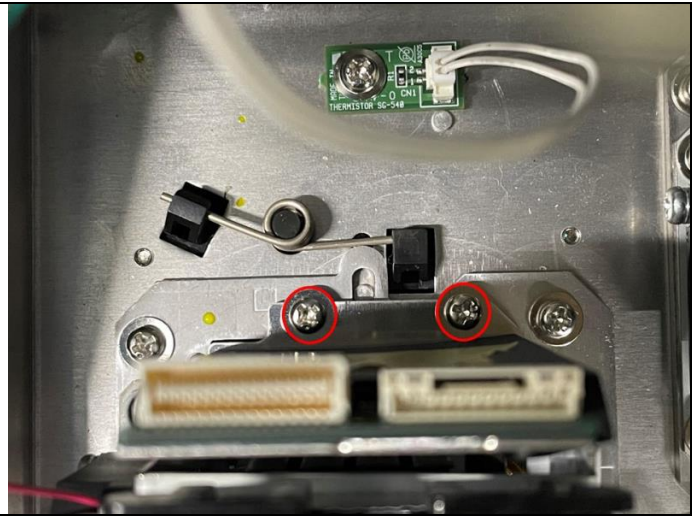
Step 54 / 107

Detail1: Front side of print head



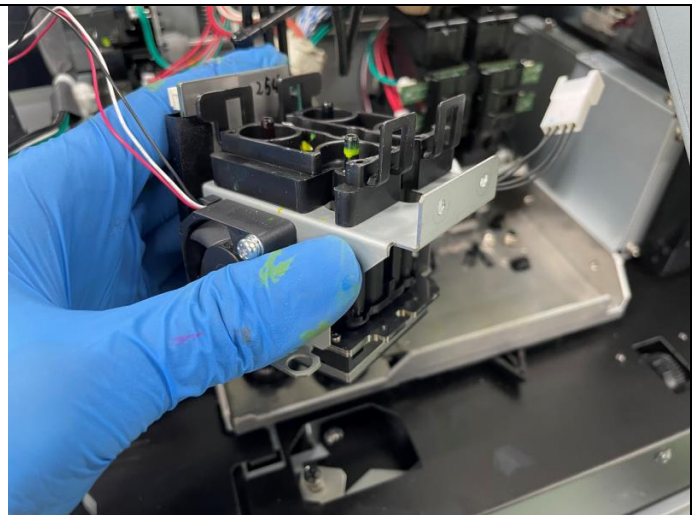
Step 55 / 107

Detail2: Far side of print head



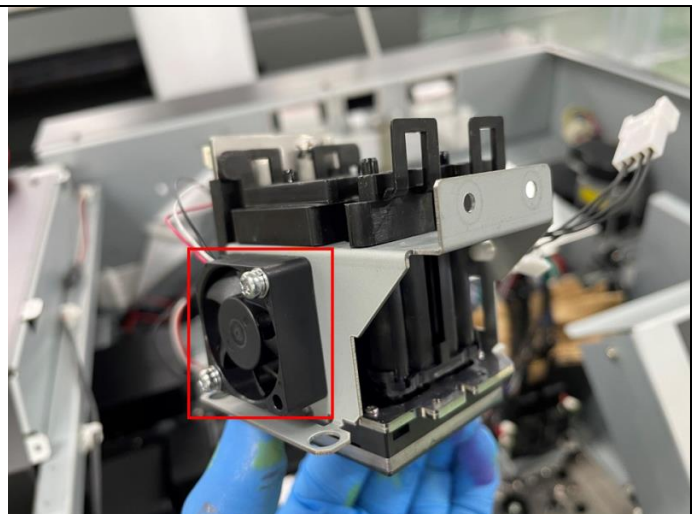
Step 56 / 107

Remove the print head.



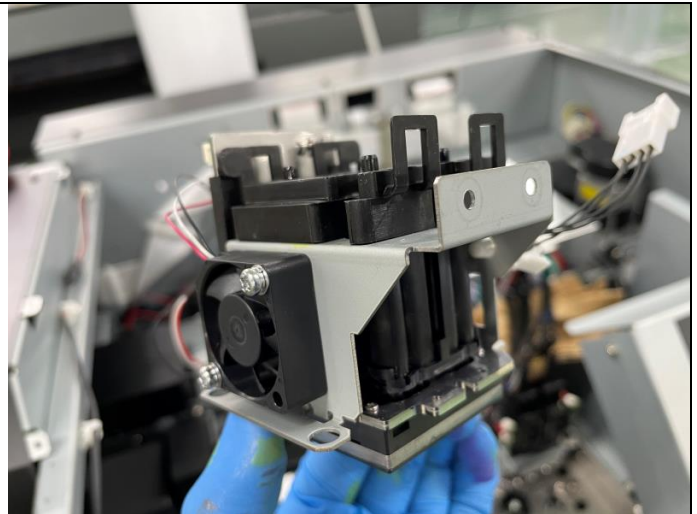
Step 57 / 107

Remove the head cooling fan attached to the print head.



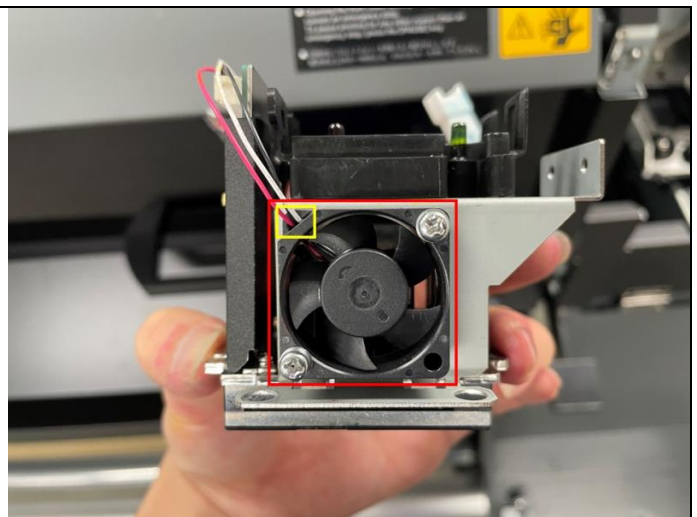
Step 58 / 107

Set the torque screwdriver to 0.3 N-m and attach the head cooling fan to the new print head.



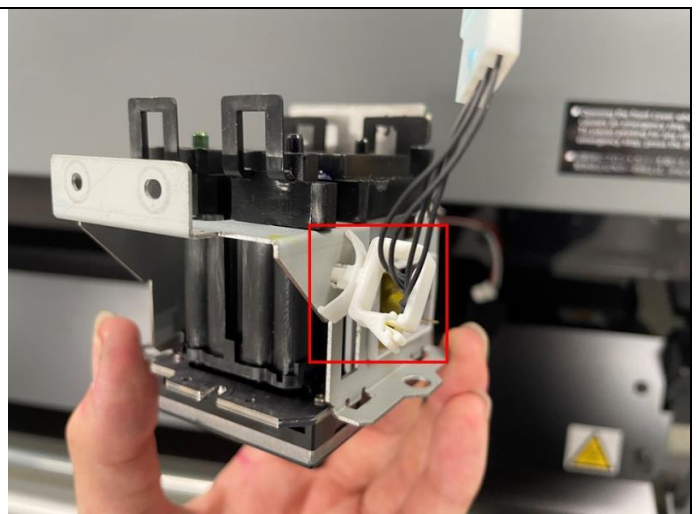
Step 59 / 107

Detail1: Be careful with the orientation of the head cooling fan. *Install it so that the cable wiring is at the upper rear side.



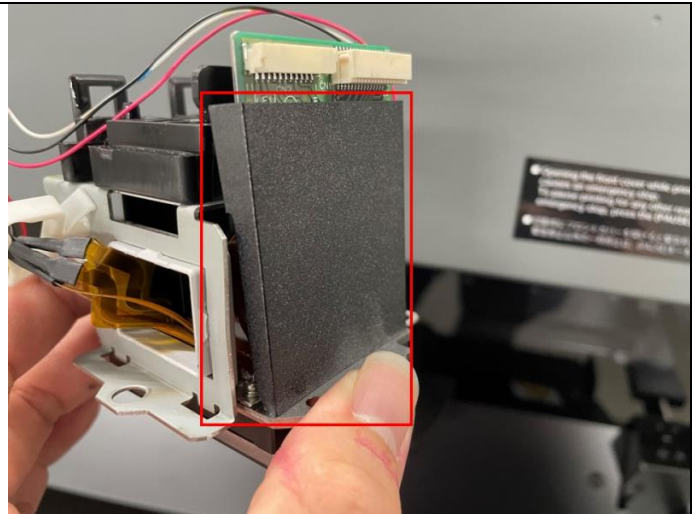
Step 60 / 107

Remove the saddle and print head board cover from the old head and attach to new print head.



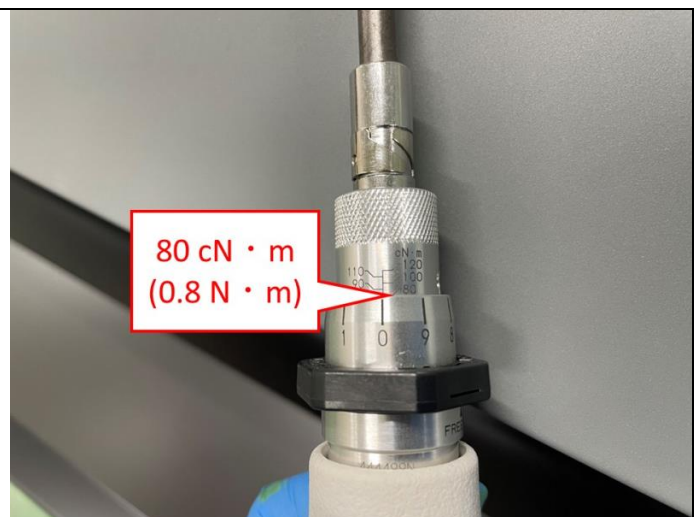
Step 61 / 107

Detail1: Print head board cover



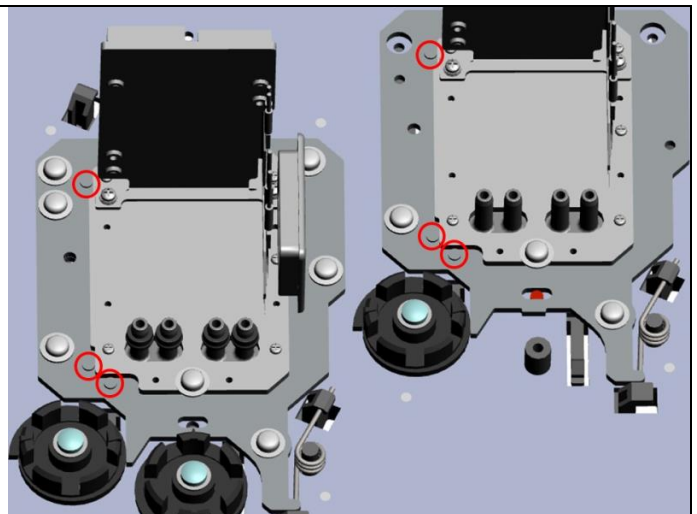
Step 62 / 107

Set the torque screwdriver to 0.8 N·m.



Step 63 / 107

Press the print head to the three bosses and attach screws of the print head using a torque screwdriver.



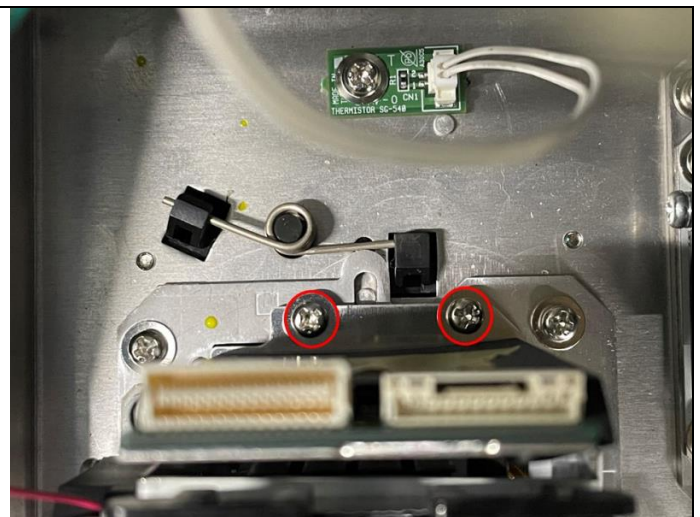
Step 64 / 107

Detail1: Print head fixing screw



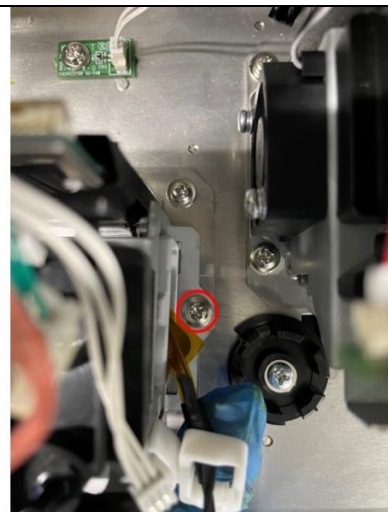
Step 65 / 107

Detail2: Print head fixing screw



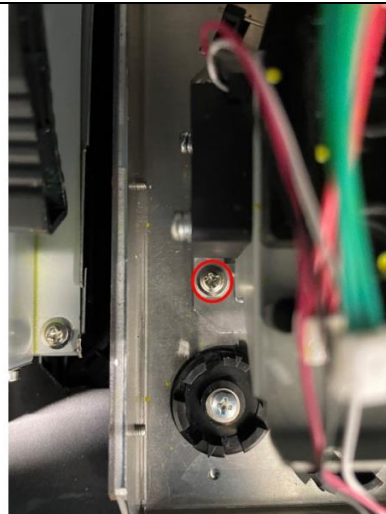
Step 66 / 107

Attach the screws on the adapter fixing sheet metal using a type of torque screwdriver that does not generate impact set at 0.8 N-m. *Right side of the print head



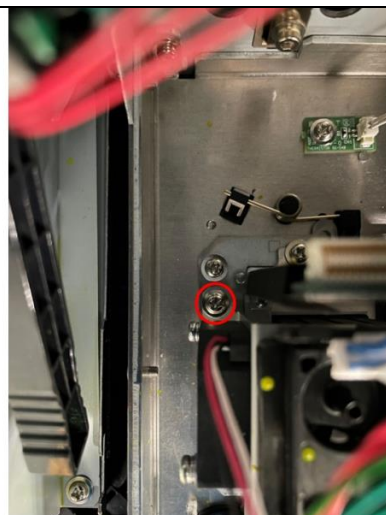
Step 67 / 107

Detail1: Front left side of print head



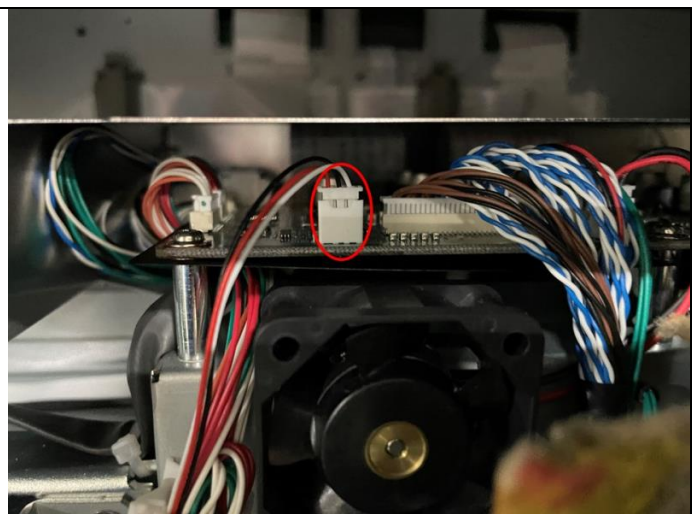
Step 68 / 107

Detail2: Back left side of print head



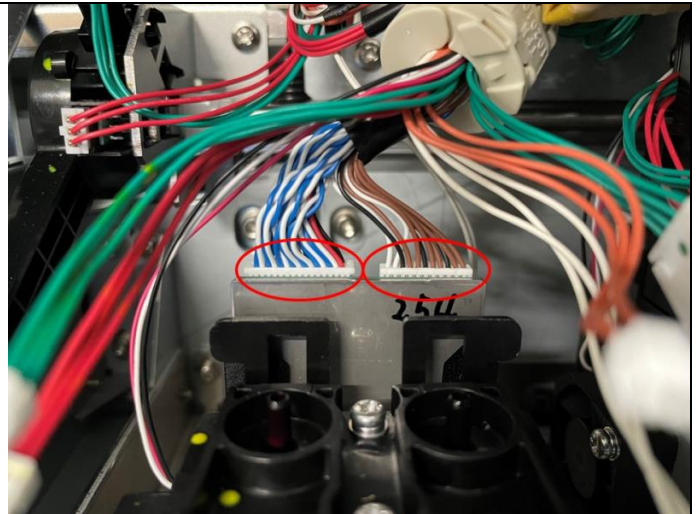
Step 69 / 107

Connect the removed connector.



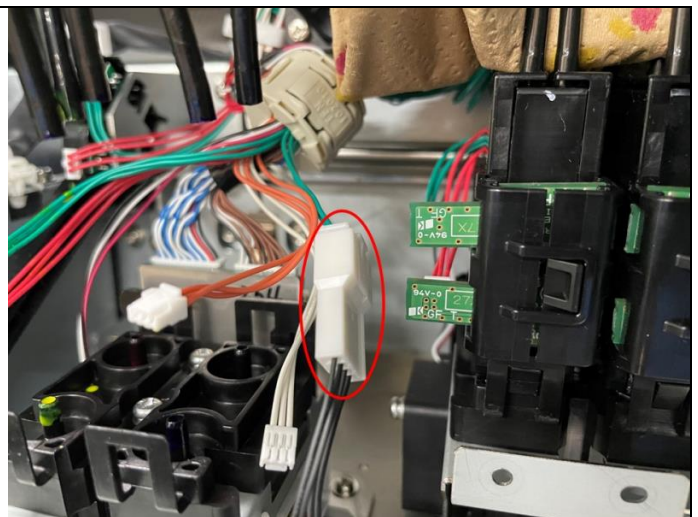
Step 70 / 107

Detail1: Print head connector



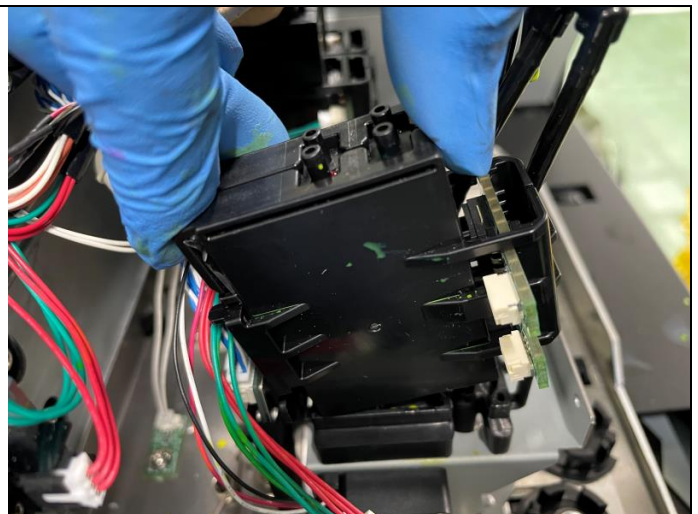
Step 71 / 107

Detail2: Print head heater connector



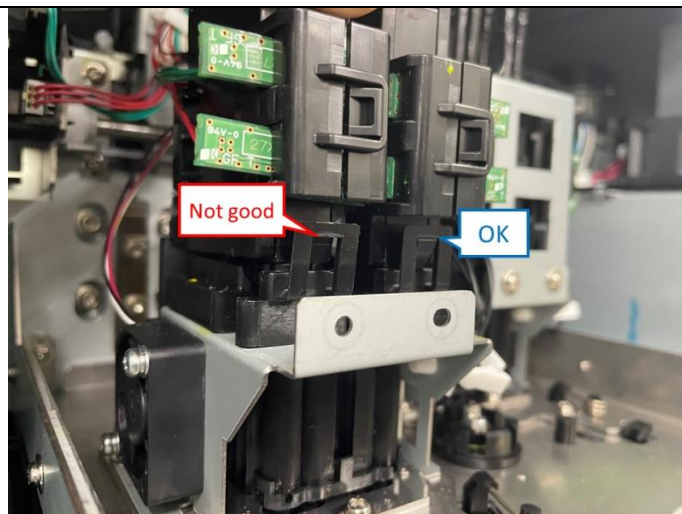
Step 72 / 107

Attach the damper. Securely engage the claws at the front and rear.



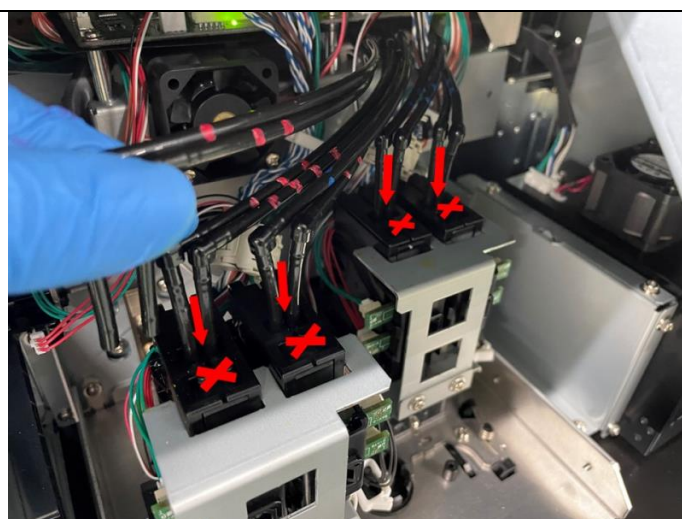
Step 73 / 107

Detail1: "Not good" indicates the damper not attached properly.



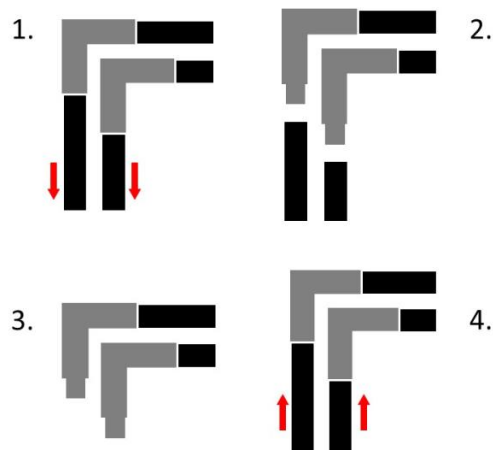
Step 74 / 107

Replace the tubes on the back side with a new tubes and connect them to the damper.



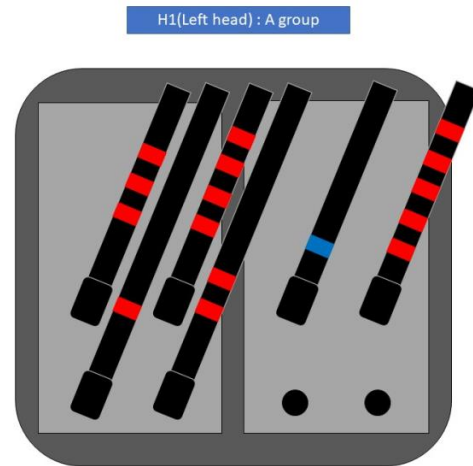
Step 75 / 107

Detail1: Connect the 30 mm tube that was cut during assembling print head tube procedure, Pull out the old tubes from the L-joint, connect the new tube into the L-joint, and connect it to the damper.



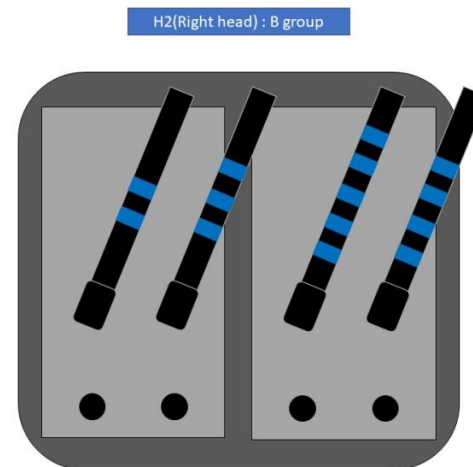
Step 76 / 107

Detail2: Tube wiring diagram



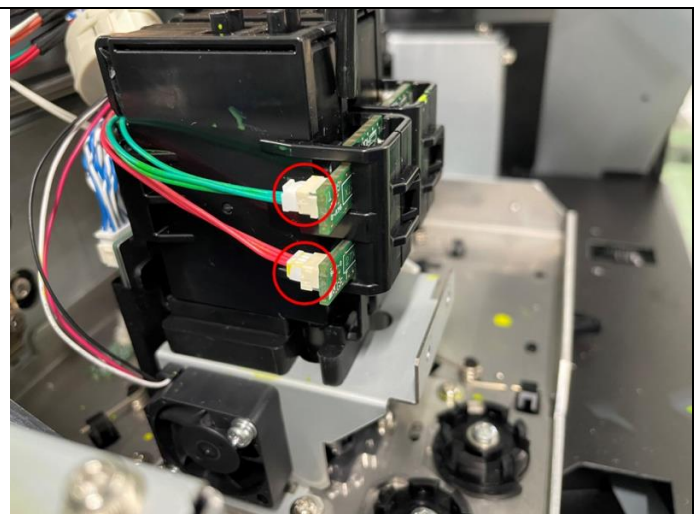
Step 77 / 107

Detail3: Tube wiring diagram



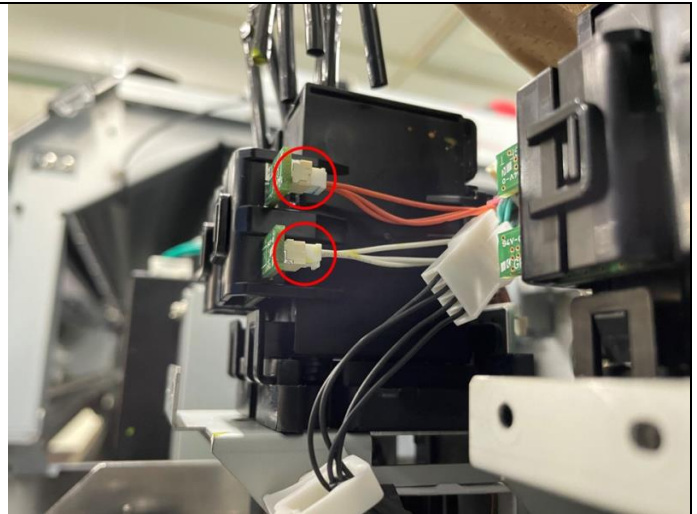
Step 78 / 107

Connect the pressure sensor connector.



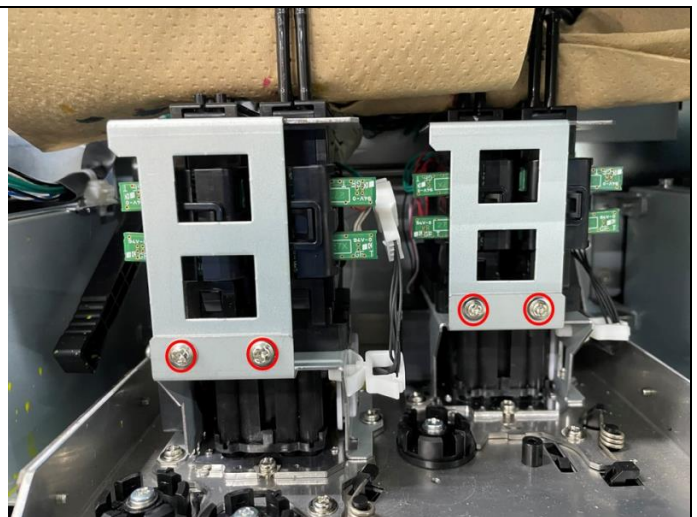
Step 79 / 107

Detail1: Be careful not to make a mistake in the connecting portion.



Step 80 / 107

Attach the damper fixing plate using a type of torque screwdriver that does not generate impact set to 0.8 N-m.



Step 81 / 107

Start the machine in service mode then open [REPLACE H&D] from the [SUB MENU] in the [SERVICE MENU].



Step 82 / 107

Press [□] from [PREPARE] you have pressed when the ink was discharged, and select [FINALIZE].



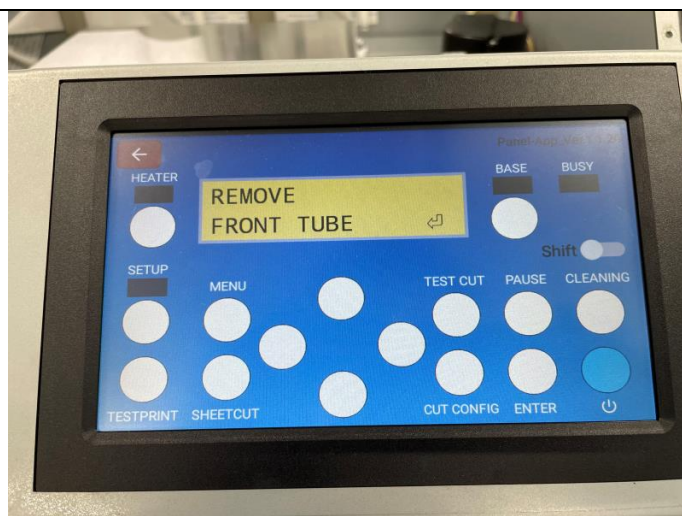
Step 83 / 107

Detail1: Select the group corresponding to the print head that has been replaced.
*A: Left head B: Right head



Step 84 / 107

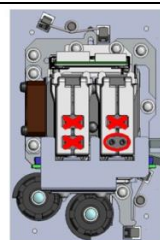
Remove the tube on the front side and press [ENTER] to initialize the pressure sensor.



Step 85 / 107

Connect the tube assembled in the assembling the print head tube procedure to the front side.

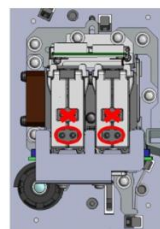
左ヘッド
Left head



30mmチューブ+ストッパー×2
30mm tube + Stopper*2



右ヘッド
Right head



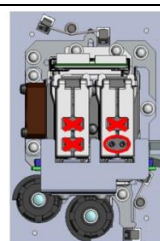
30mmチューブ+ストッパー×4
30mm tube + Stopper*4



Step 86 / 107

Detail1: If the left print head is replaced, replace the old tube from the left L-joint and install the new tube in the same manner as the back tube.

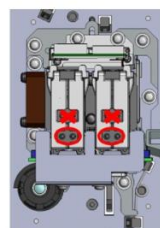
左ヘッド
Left head



30mmチューブ+ストッパー×2
30mm tube + Stopper*2



右ヘッド
Right head

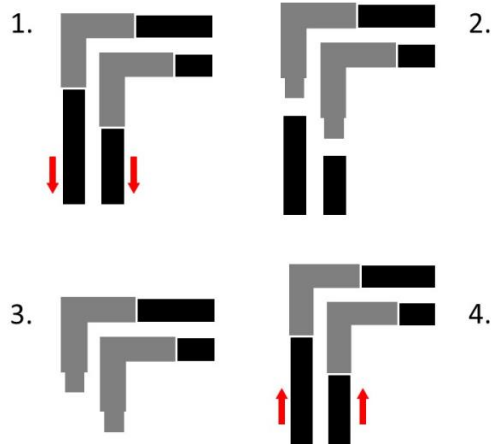


30mmチューブ+ストッパー×4
30mm tube + Stopper*4



Step 87 / 107

Detail2: Except for the circulation tube on the left side of the left print head, connect a 30 mm tube each with a stopper attached.



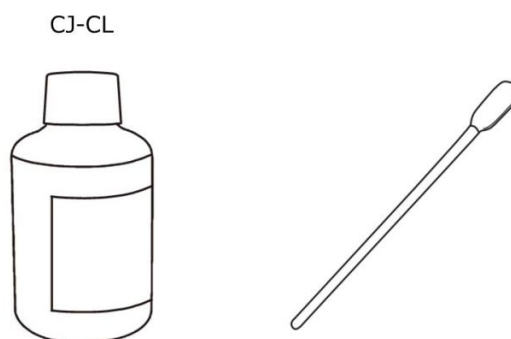
Step 88 / 107

After the carriage is moved to the maintenance space, perform manual cleaning. *Do not press [ENTER] until manual cleaning is completed.



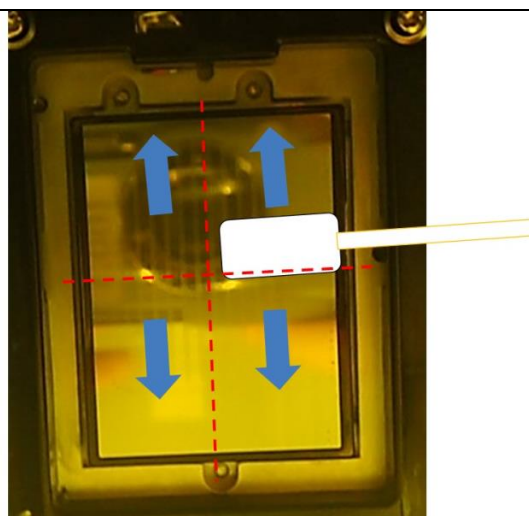
Step 89 / 107

Prepare one cleaning stick soaked with CJ-CL.



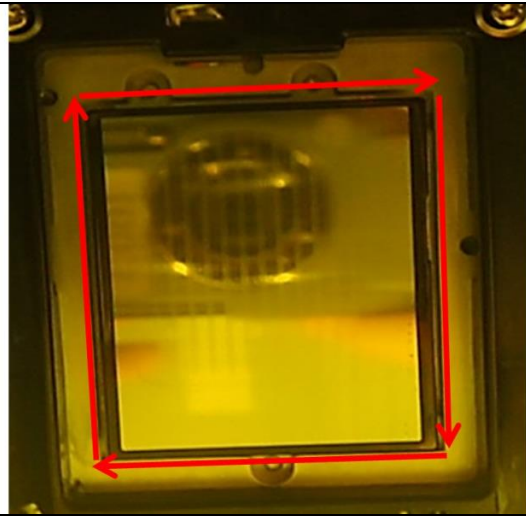
Step 90 / 107

Press the cleaning stick firmly onto the nozzle surface of the print head and slowly wipe off the remaining inspection ink inside and outside of the nozzle in four separate movements from the inside to the outside. Do not press the stick too hard or rub the nozzle.



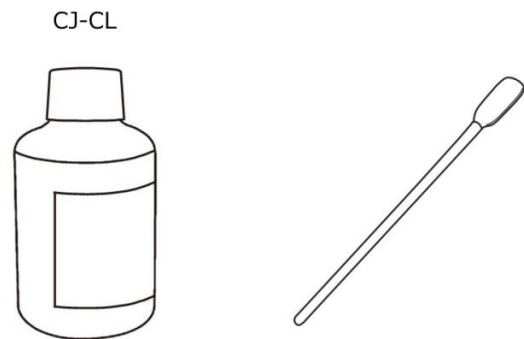
Step 91 / 107

Wipe all the sides of the print head with the cleaning stick used earlier. *Use one cleaning stick per print head.



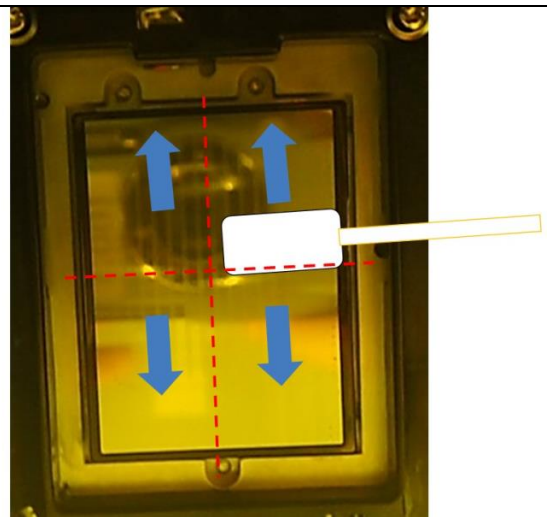
Step 92 / 107

Prepare a new cleaning stick soaked with CJ-CL and perform the same operation on the other print head.



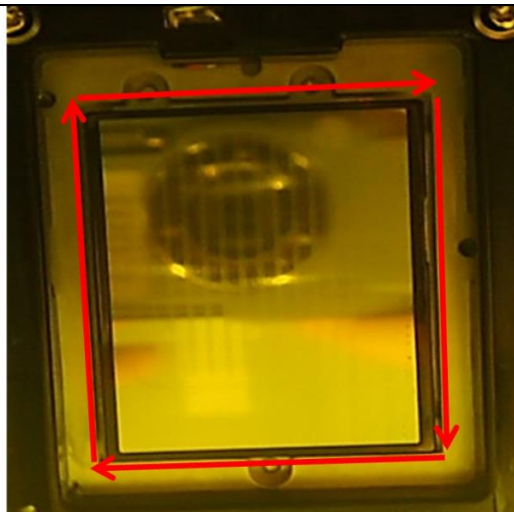
Step 93 / 107

Press the cleaning stick firmly onto the nozzle surface of the print head and slowly wipe off the remaining inspection ink inside and outside of the nozzle in four separate movements from the inside to the outside. Do not press the stick too hard or rub the nozzle.



Step 94 / 107

Wipe all the sides of the print head with the cleaning stick used earlier. *Use one cleaning stick per head.



Step 95 / 107

Perform the same operation one more time with a new cleaning stick using CJ-CL.

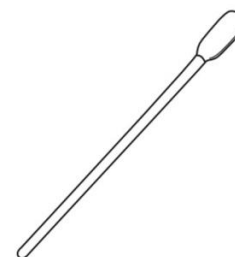
CJ-CL



Step 96 / 107

Prepare one new cleaning stick and soak it with ESL5-CL. *Be sure to prepare a new cleaning stick.

ESL5-CL



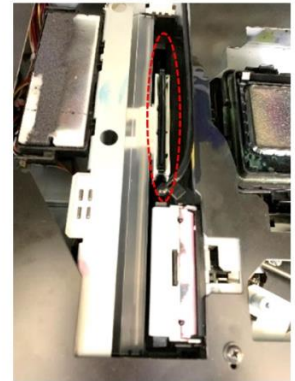
Step 97 / 107

The same work as in CJ-CL is performed in ESL5-CL.



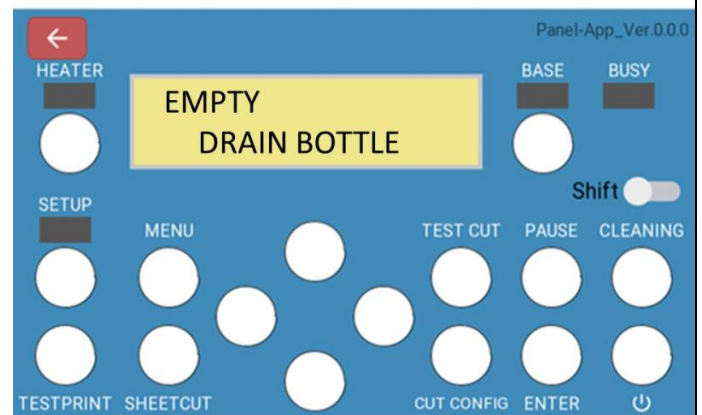
Step 98 / 107

After both print heads have been cleaned, wipe off the wipers and cap tops using the ESL5-CL cleaning stick that was used to wipe off the print head.



Step 99 / 107

Discard the waste liquid.



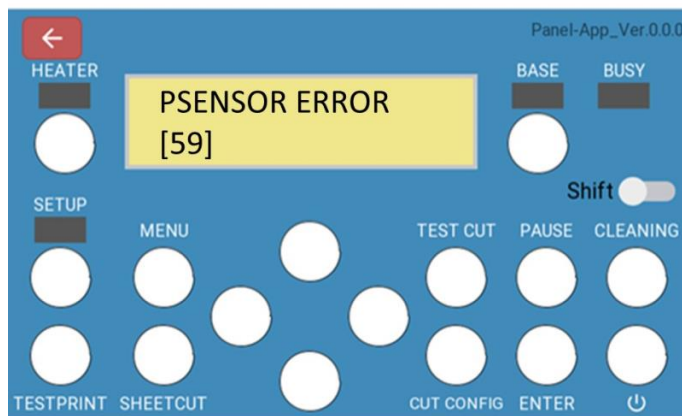
Step 100 / 107

Perform manual cleaning and press [ENTER] to move the carriage to the capping position and start ink filling.



Step 101 / 107

If ink filling is not successful, the message shown in the image will be displayed. Check the connection of the tubes in the ink path indicated in [] and then perform [FINALIZE] menu again.

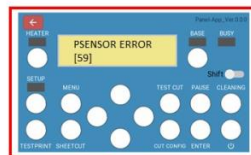


Step 102 / 107

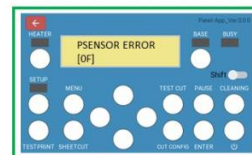
Detail1: How to read the code in the message

算出方法/Calculation method

0	1	2	3	4	5	6	7
0000	0001	0010	0011	0100	0101	0110	0111
8	9	A	B	C	D	E	F
1000	1001	1010	1011	1100	1101	1110	1111



0101 1001

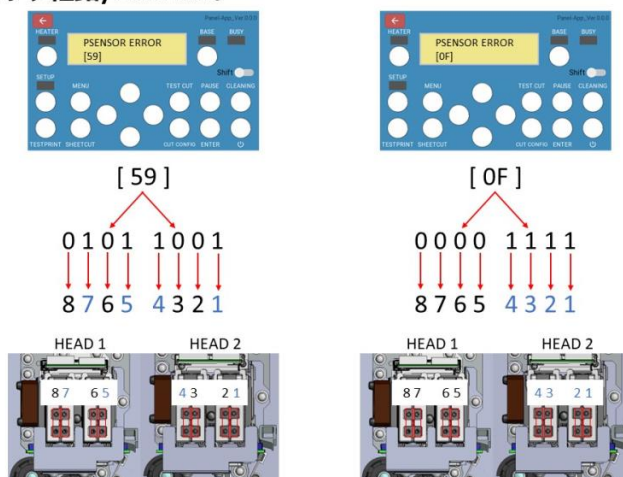


0000 1111

Step 103 / 107

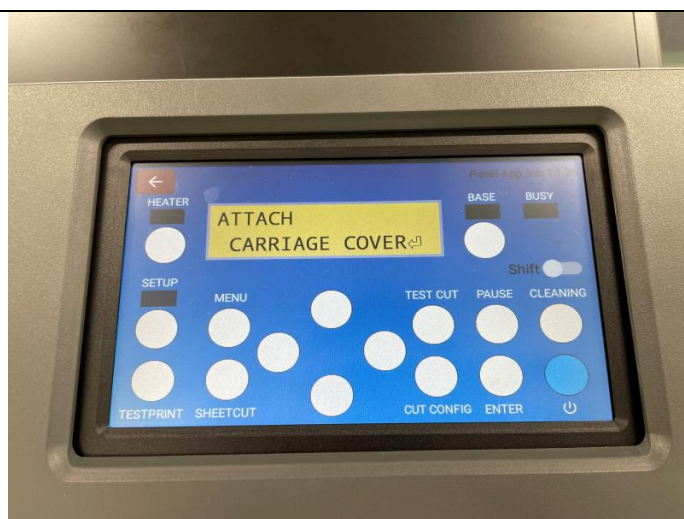
Detail2: Corresponding ink path

インク経路/Ink line



Step 104 / 107

When ink filling is completed, the panel display will appear as shown in the image. The carriage will move to the maintenance space again, so press [ENTER] after attaching the carriage cover.



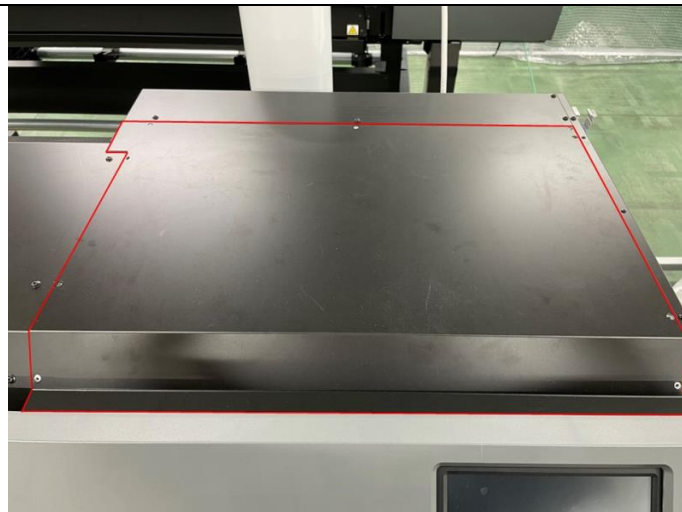
Step 105 / 107

Detail1: Carriage cover



Step 106 / 107

Attach the cover on the top of the print head.



Step 107 / 107

After the replacement work is completed, execute [CAP CHECK] from the [I/S MENU].

SERVICE MENU	◀▶
I/S MENU	▶
	▶
I/S MENU	◀▶
CAP CHECK	▶

LG-645430 Damper Replacement

LG-645430 Damper Replacement

Information

Step 1 / 3

Tubes and stoppers are not included with the damper. Please arrange separately for the required number of tubes and stoppers.



Step 2 / 3

Necessary Tools

一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
手袋 Groves	
保護メガネ Goggle	
ウエス Waste cloth	

Step 3 / 3

Typical Work Time

作業時間/Typical work time

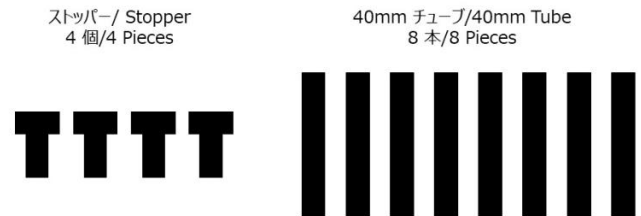
作業内容/Contents of work	時間/Time
ダンパー交換 Damper replacement	15 min.

LG-645430 Damper Replacement

LG-645430 Damper Replacement Procedure

Step 1 / 67

Eight 40 mm tubes and four stoppers are included with the damper.



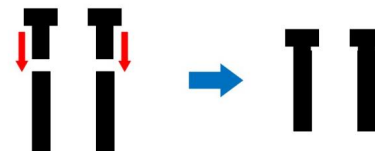
Step 2 / 67

When replacing the left damper: Cut 6 tubes (except 2 tubes for circulation tubes) by 10 mm to make 30 mm tubes.



Step 3 / 67

Detail1: Attach the stoppers to the two 30 mm tubes. Four stoppers are included in the package because four stoppers are used when replacing the right damper. However, when you



replace the left damper, you only need two stoppers.



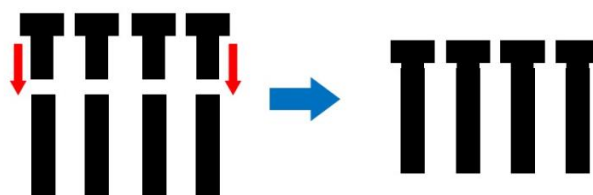
Step 4 / 67

Detail2: When replacing the right damper: Cut all 8 tubes included in the package to 30 mm.



Step 5 / 67

Attach the stoppers to the four tubes.



Step 6 / 67

Start Peck2.



Step 7 / 67

Detail1: Click the [Login] button.

Peck2 Ver. 2.20

koharajun@ co.jp Login Server Update

Printer Info	User Information	Certification Points
Model:	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: Not Connected	Expired after 30 days	Installer - - - - -
Firm Ver: -	Region Code:	Color - - - - -
Service Menu: Close		Dental - - - - -
		3D - - - - -

Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0 Imcompleted #: 2 Input
Check Report	Check KB Article	Imcompleted work report list
Update Firmware	Imagi-net Product Page	VG2-640_ZDV01 _20210507_084958.pec VG2-640_ZDV01 _20210506_160305.pec
Put Parameter	Help	

Step 8 / 67

Detail2: Login with your Imagi-net ID.

Sign in to your account

Microsoft

Select an account

Jun Koh koharajun@ Windows

利用規約 プライバシーとCookie

Step 9 / 67

Detail3: Click [Connect Printer].

Peck2 Ver. 2.20

koharajun@ co.jp Login Server Update

Printer Info	User Information	Certification Points
Model:	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: Not Connected	Expired after 30 days	Installer - - - - -
Firm Ver: -	Region Code:	Color - - - - -
Service Menu: Close		Dental - - - - -
		3D - - - - -

Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0 Imcompleted #: 2 Input
Check Report	Check KB Article	Imcompleted work report list
Update Firmware	Imagi-net Product Page	VG2-640_ZDV01 _20210507_084958.pec VG2-640_ZDV01 _20210506_160305.pec
Put Parameter	Help	

Step 10 / 67

Detail4: Enter the IP address of the printer you would like to connect to.

Peck2 Ver 2.20

koharajun@ .co.jp Login Server Update

Printer Info		User Information		Certification Points					
Model:	Certified: YES		30 days	Category	Rank	Academy	Community	Feedback	For Rank Up
ConnectPrinter				Installer	Certified	0	*	*	*
Select: VG2-640(11 .129.52)				Color		0	0	0	200
				Dental		0	0	*	200
				3D		0	0	*	200

Input IP Address:

Connect Close

Machine-Operation		Information		Work Report	
Connect Printer	Global Dashboard	Completed #:	0	Completed #:	0
Check Report	Check KB Article	Imcompleted #:	2	Imcompleted #:	2
Update Firmware	Imagi-net Product Page	Imcompleted work report list			
Put Parameter	Help	VG2-640_ZDV01 _20210507_084958.pec			
		VG2-640_ZDV01 _20210506_160305.pec			

Step 11 / 67

Detail5: When connected to the printer, printer information will be displayed in [Printer Info].

Peck2 Ver 2.20

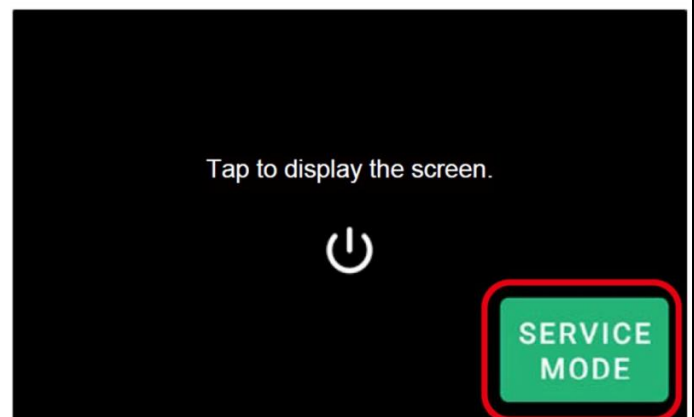
koharajun@ .co.jp Login Server Update

Printer Info		User Information		Certification Points					
Model: VG2-640_ZDV01	Certified: YES		30 days	Category	Rank	Academy	Community	Feedback	For Rank Up
Status: UnSetup	Expired after			Installer	Certified	0	*	*	*
Firm Ver: 2.00				Color		0	0	0	200
Service Menu: Open				Dental		0	0	*	200
				3D		0	0	*	200

Machine-Operation		Information		Work Report	
Connect Printer	Global Dashboard	Completed #:	0	Completed #:	0
Check Report	Check KB Article	Imcompleted #:	2	Imcompleted #:	2
Update Firmware	Imagi-net Product Page	Imcompleted work report list			
Put Parameter	Help	VG2-640_ZDV01 _20210507_084958.pec			
		VG2-640_ZDV01 _20210506_160305.pec			

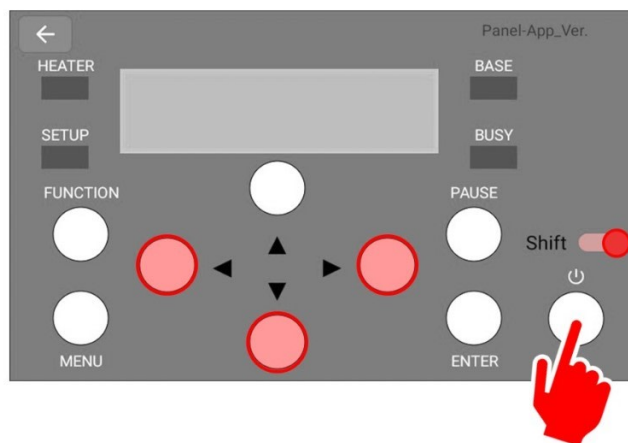
Step 12 / 67

Detail6: Select the service mode in the panel.



Step 13 / 67

Detail7: Press [Shift] > [□]+[□]+[□]+[Sub Power] to enter Service Mode. By turning on the [Shift] button, multiple buttons can be pressed at the same time.



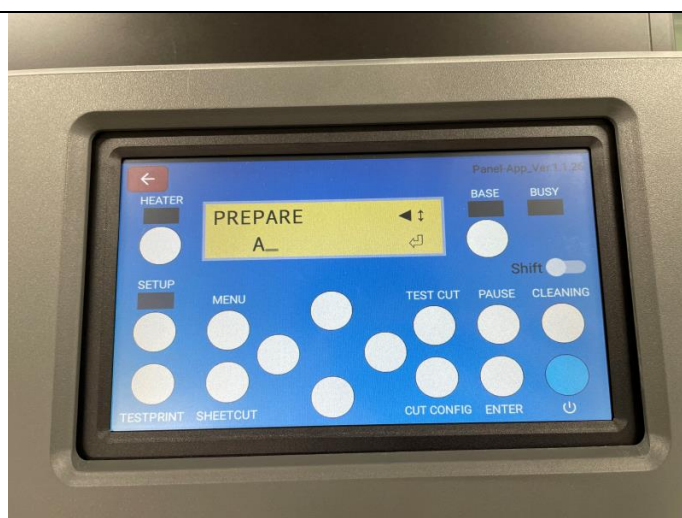
Step 14 / 67

Select the group of heads corresponding to the damper to be replaced by pressing [SERVICE MENU] > [SUB MENU] > [REPLACE H&D] > [PREPARE] > [AB].



Step 15 / 67

Detail1: A: Left head



Step 16 / 67

Detail2: B: Right head



Step 17 / 67

Detail3: Press [ENTER]. The print head carriage starts moving to left so that the cover can be removed.



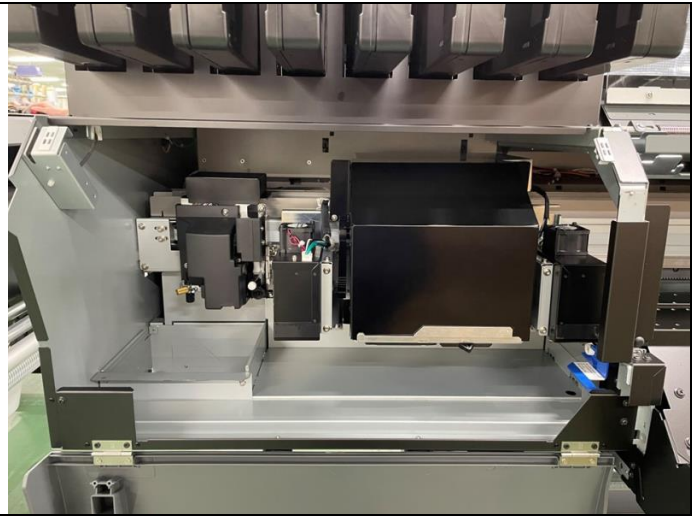
Step 18 / 67

When [CARRIAGE COVER] appears, remove the cover of the carriage that has been moved to the maintenance space.



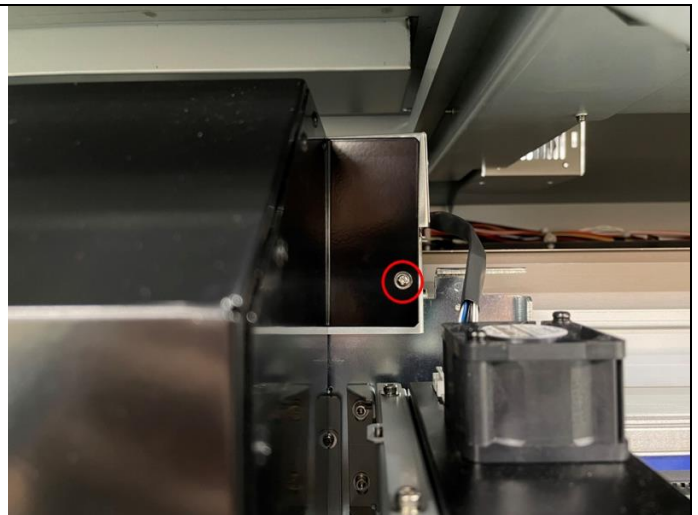
Step 19 / 67

Detail1: Carriage cover



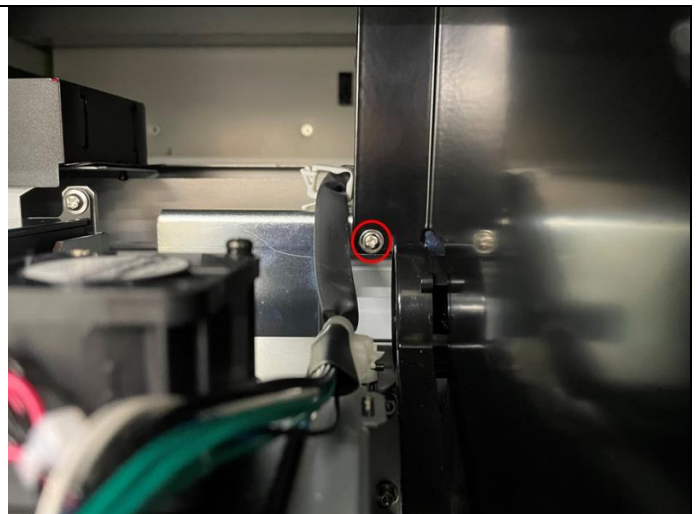
Step 20 / 67

Detail2: Screw position



Step 21 / 67

Detail3: Screw position



Step 22 / 67

Detail1: Press [ENTER] to return the carriage to the origin position.



Step 23 / 67

Wear gloves and safety glasses.



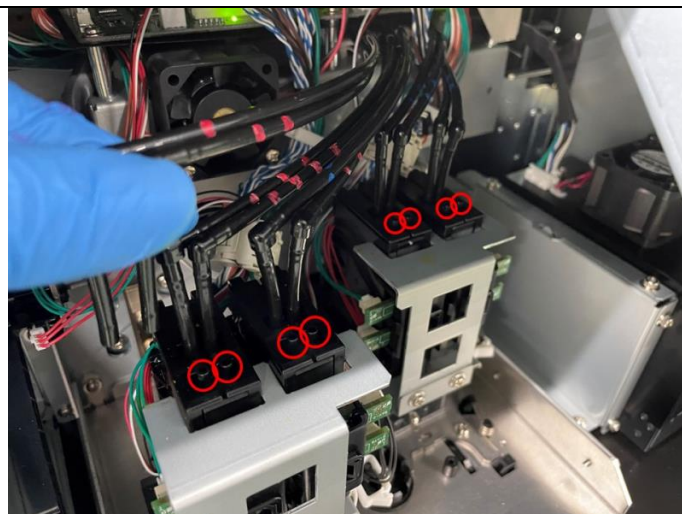
Step 24 / 67

When [REMOVE FRONT TUBE] appears, pull out the front tube attached to the damper to be replaced and press [ENTER]. *Ink may leak out, so prepare a dry cloth and remove the tube. Since it will be reconnected, make sure you know where the tube is connected.



Step 25 / 67

Detail1: Tubes to be removed



Step 26 / 67

When [CONNECT FRONT TUBE] appears, reconnect the front side ink tube you just disconnected and press [ENTER]. *Make sure to connect the correct tube you have disconnected, otherwise it cause color mixing, etc.



Step 27 / 67

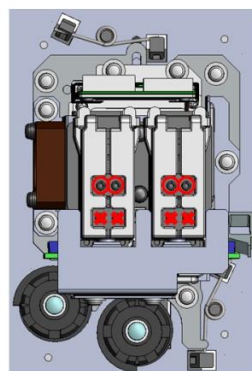
When [REMOVE REAR TUBE] appears on the display, pull out the back tube attached to the damper to be replaced, and press [ENTER]. *Ink may leak out, so please prepare a dry cloth and remove it.



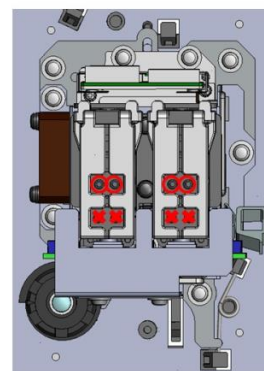
Step 28 / 67

Detail1: Tube to be removed

左ヘッド/Left Head



右ヘッド/Right Head



Step 29 / 67

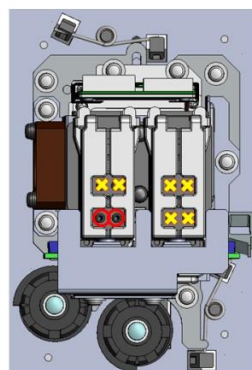
When [REMOVE CIRCULATE TUBE] appears, pull out the long tube connected to the front left side of the left damper and press [ENTER]. This will appear only when Group A is selected.



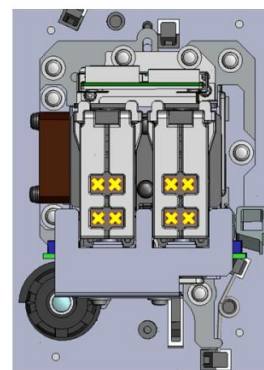
Step 30 / 67

Detail1: Tube to be removed

左ヘッド/Left Head



右ヘッド/Right Head



Step 31 / 67

When pump up is completed, the sub power is automatically turned off.



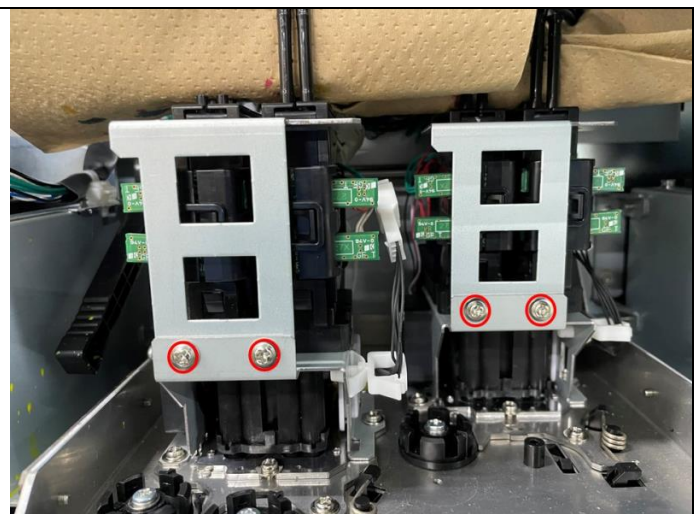
Step 32 / 67

After the sub power is turned off, turn off the main power.



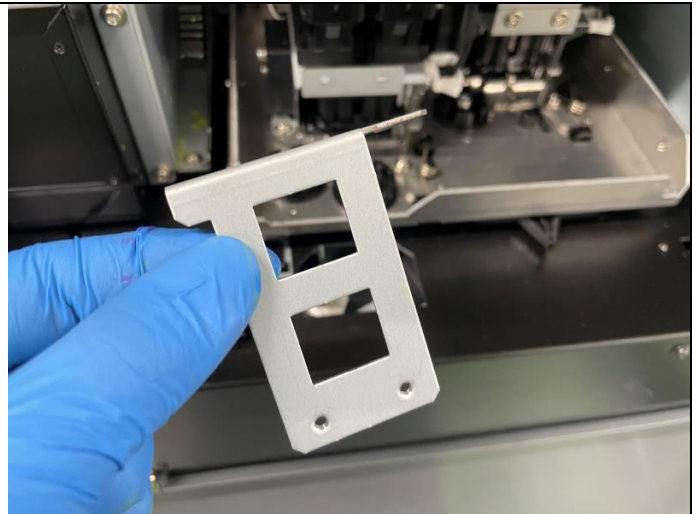
Step 33 / 67

Remove the metal plate attached to the front of the damper. Pull it upward after removing the screws.



Step 34 / 67

Detail1: Metal plate



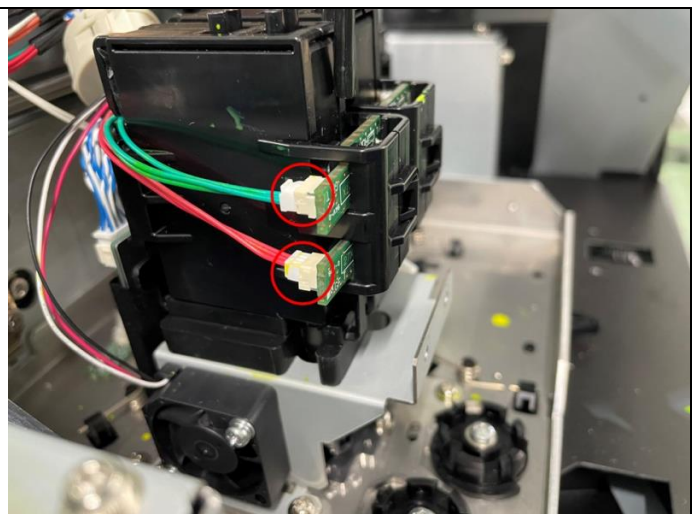
Step 35 / 67

Detail2: After the metal plate removed



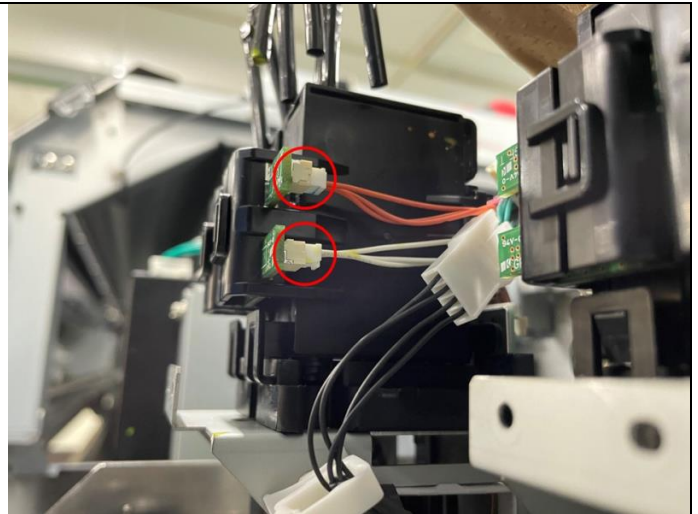
Step 36 / 67

Remove the 4 connectors of the pressure sensor. Left side view



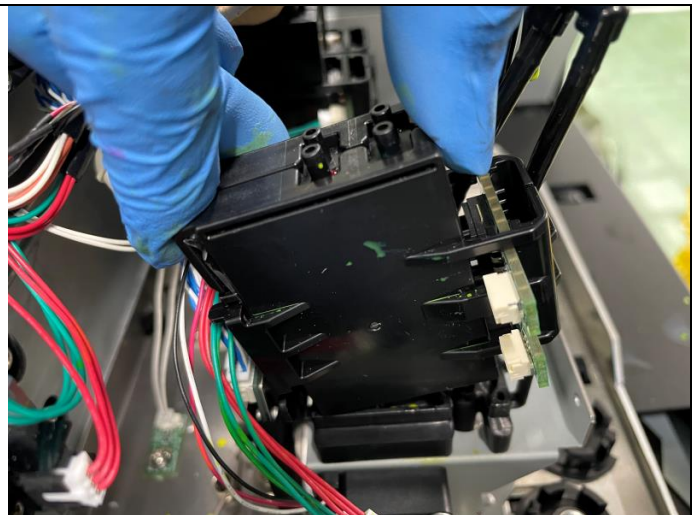
Step 37 / 67

Detail1: Right side view



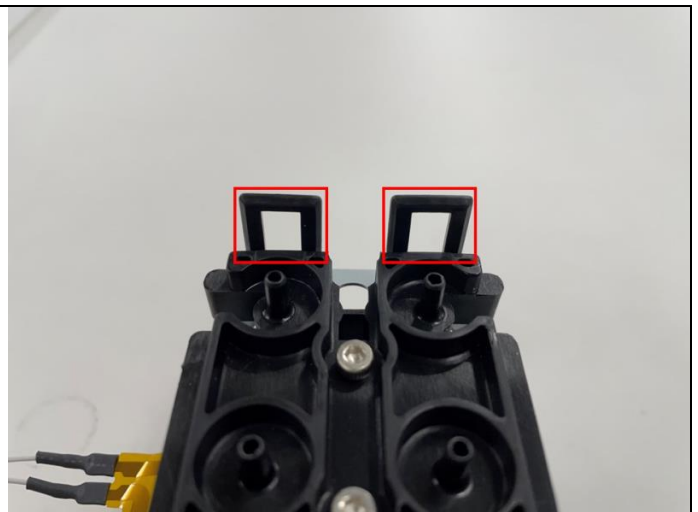
Step 38 / 67

Remove the damper.



Step 39 / 67

Detail1: Unhook the claws to remove the damper. Front view



Step 40 / 67

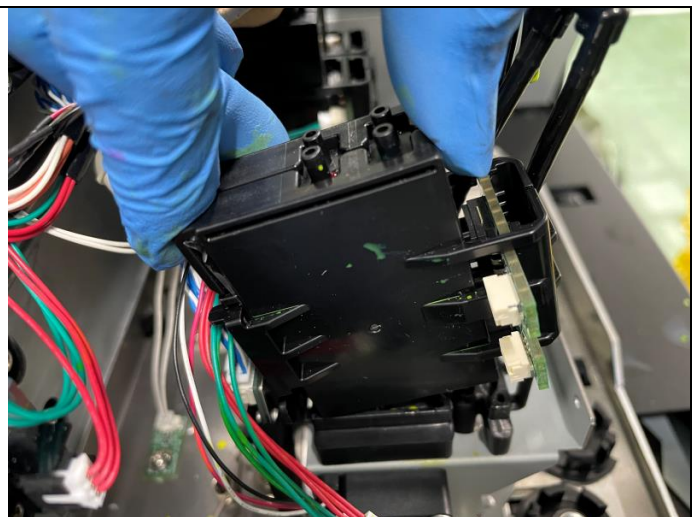
Detail2: The back side also has claws,
which can be easily unhooked by
pushing the red circled area to the rear.

Rear view



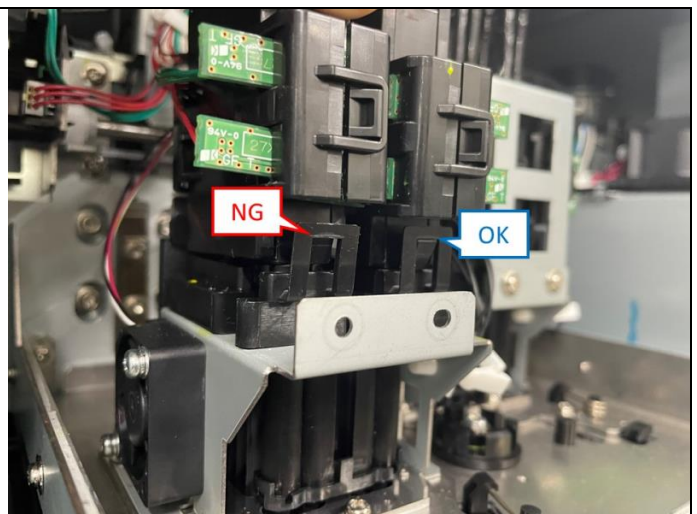
Step 41 / 67

Attach the damper. Firmly insert the
claws at the front and rear.



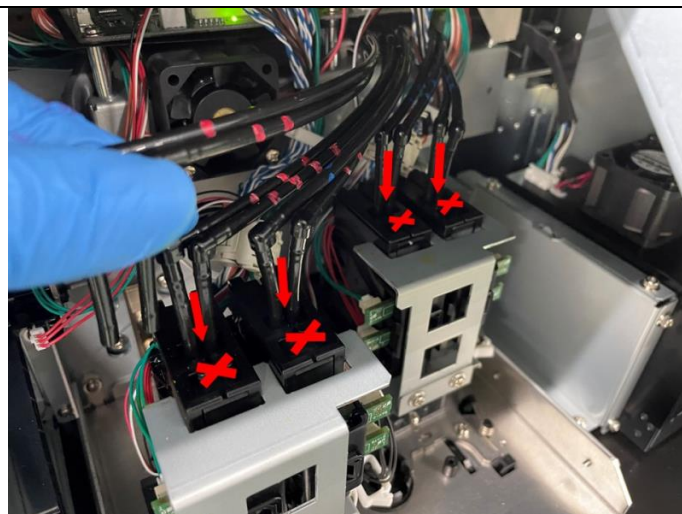
Step 42 / 67

Detail1: Reference for how the dampers
are inserted.



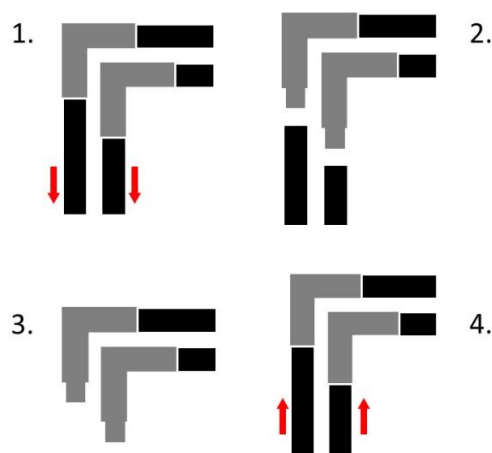
Step 43 / 67

Replace the tube on the back side with a new tube and connect it to the damper.



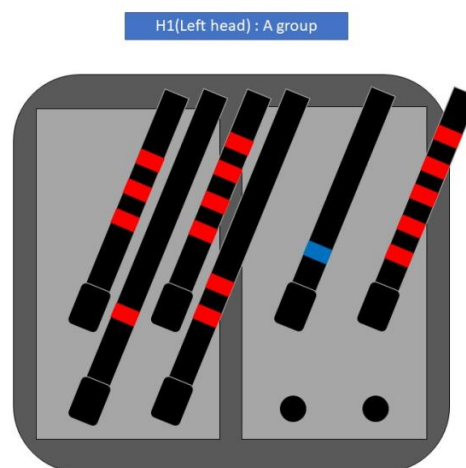
Step 44 / 67

Detail1: Install the 30 mm tube cut during the print head tube assembly procedure. Pull out the old tube from the L-joint and attach the new tube to the L-joint, and then connect it to the damper.



Step 45 / 67

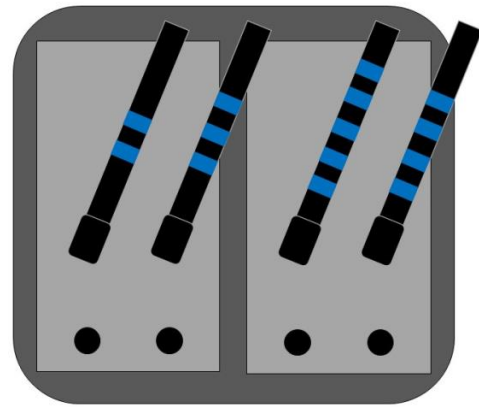
Detail2: Tube routing



Step 46 / 67

Detail3: Tube routing

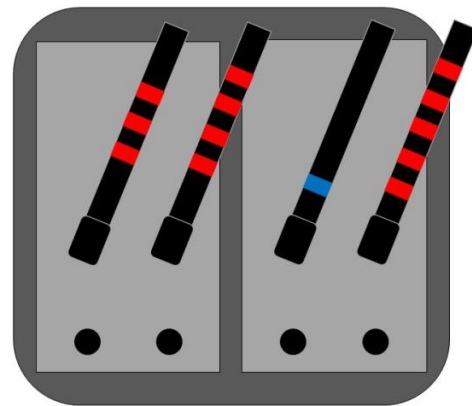
H2(Right head) : B group



Step 47 / 67

Tube routing diagram (for Wh > CMYK)

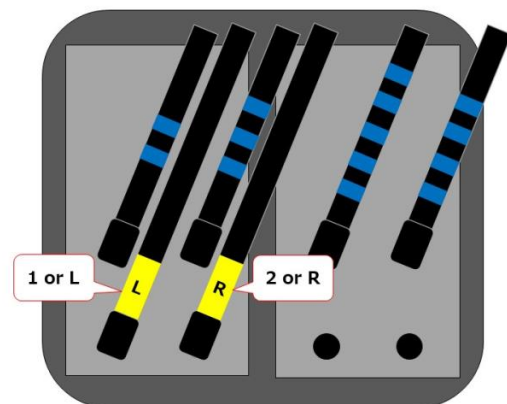
H1(Left head) : A group



Step 48 / 67

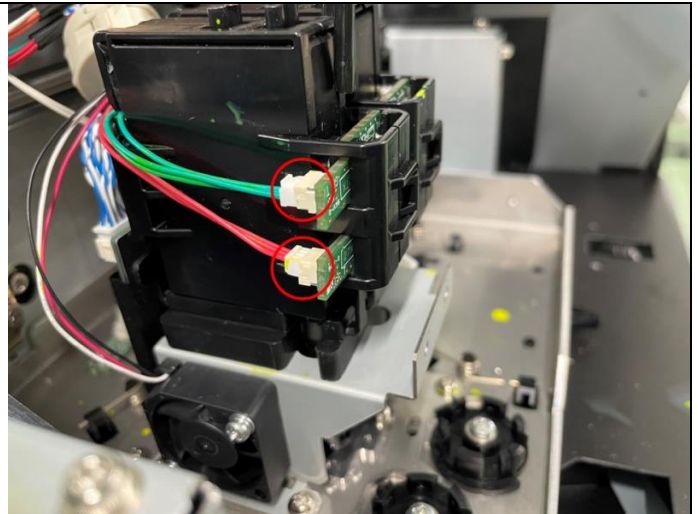
Tube routing diagram (for Wh > CMYK)

H2(Right head) : B group



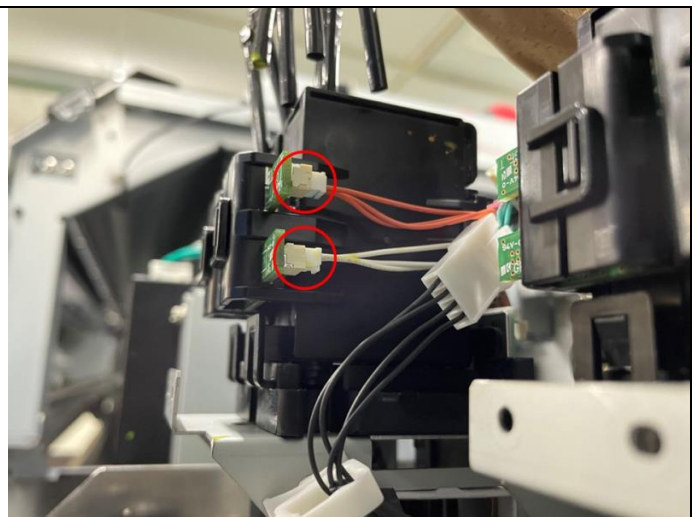
Step 49 / 67

Connect the pressure sensor connector.



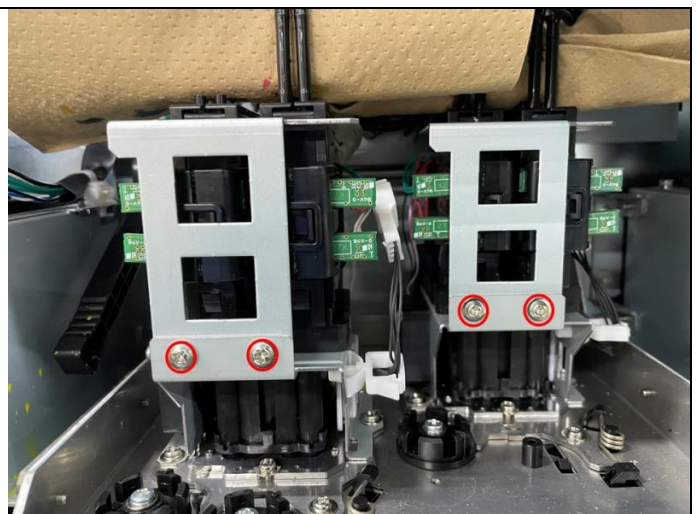
Step 50 / 67

Detail1: Be careful to connect the connectors in the correct connection positions.



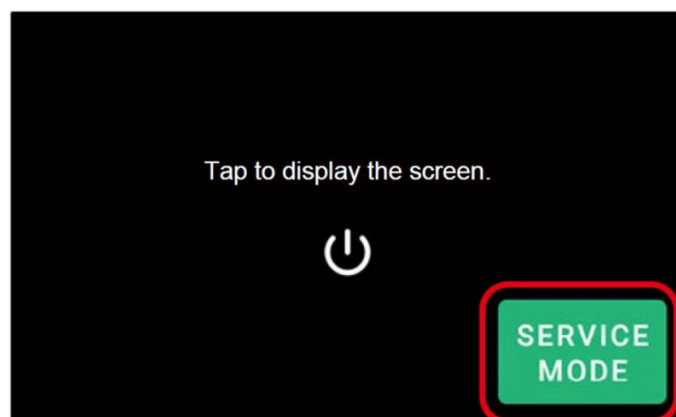
Step 51 / 67

Install the damper fixing plate using a torque driver that does not generate impact set to 0.8 N-m.



Step 52 / 67

Start the machine in service mode.



Step 53 / 67

Select the group of heads corresponding to the replaced damper at [SERVICE MENU] > [SUB MENU] > [REPLACE H&D] > [FINALIZE] > [AB].



Step 54 / 67

Detail1: Press [□] from [SERVICE MENU] > [SUB MENU] > [REPLACE H&D] > [PREPARE] menu that was executed during pump up and select [FINALIZE].



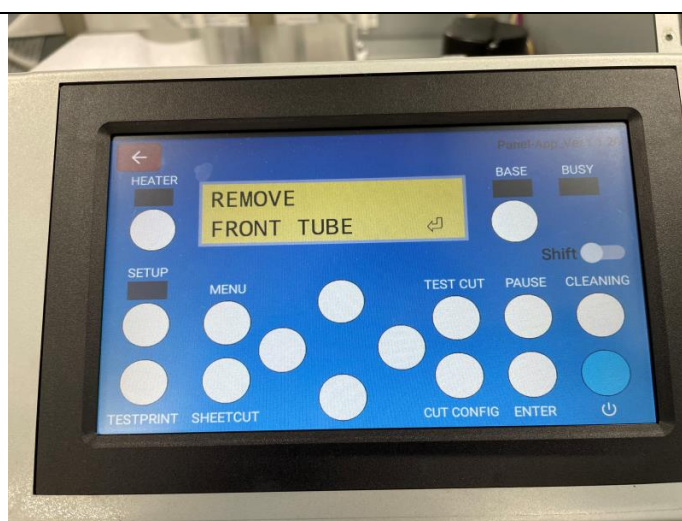
Step 55 / 67

Detail2: Select the group corresponding to the damper that was replaced. *A:
Left head B: Right head



Step 56 / 67

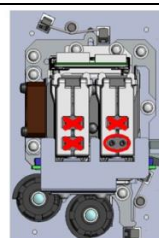
Remove the tube on the front side and press [ENTER] since the pressure sensor will be initialized.



Step 57 / 67

Connect the tube assembled in the print head tube assembly procedure to the front side. Except for the circulation tube on the left side of the left damper, connect the 30 mm tube with the stopper attached to each tube.

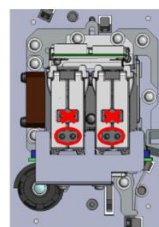
左ヘッド
Left head



30mmチューブ+ストッパー×2
30mm tube + Stopper*2



右ヘッド
Right head

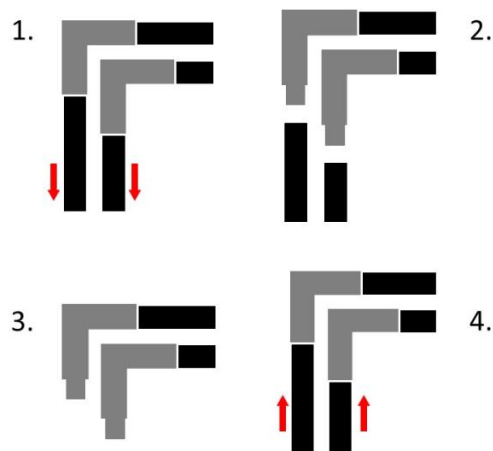


30mmチューブ+ストッパー×4
30mm tube + Stopper*4



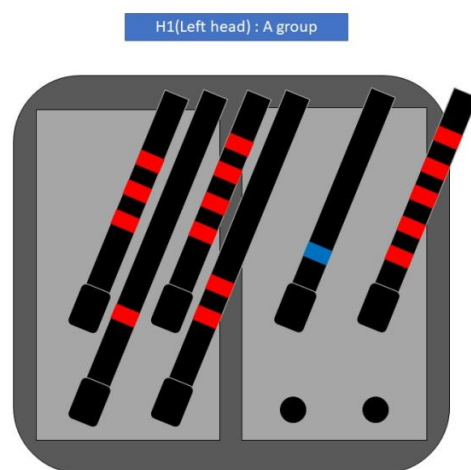
Step 58 / 67

If the left damper is replaced, replace the old tube from the L-joint on the left side and install the new tube in the same way as the tube on the back side.



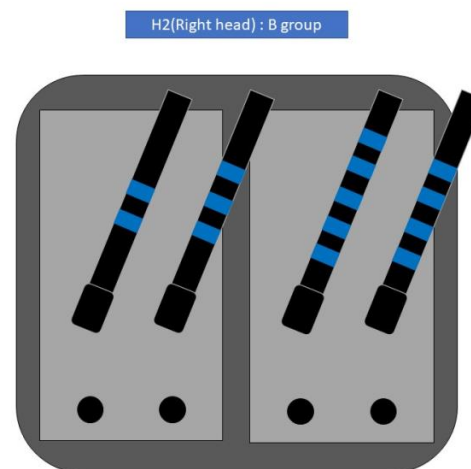
Step 59 / 67

Tube routing



Step 60 / 67

Tube routing



Step 61 / 67

Press [ENTER] when [FINISHED?] is displayed. The same sequence as print head replacement is used in the system, so this display will appear. Press [ENTER] because manual cleaning is not required when replacing the damper.



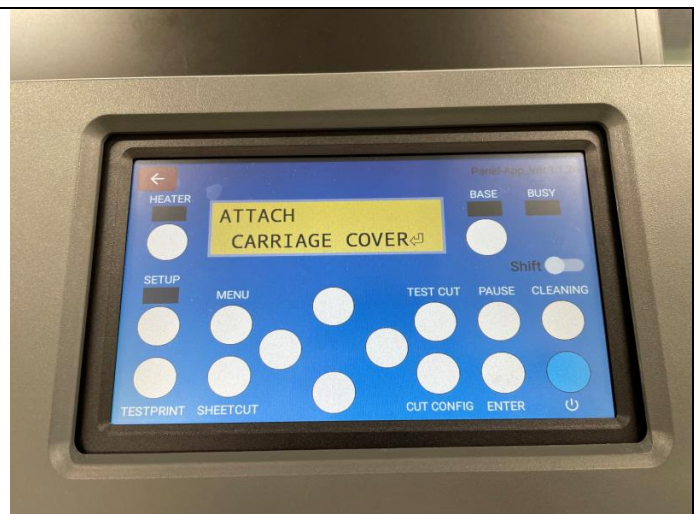
Step 62 / 67

Press [ENTER] to move the print head carriage to the capping position to start ink filling.



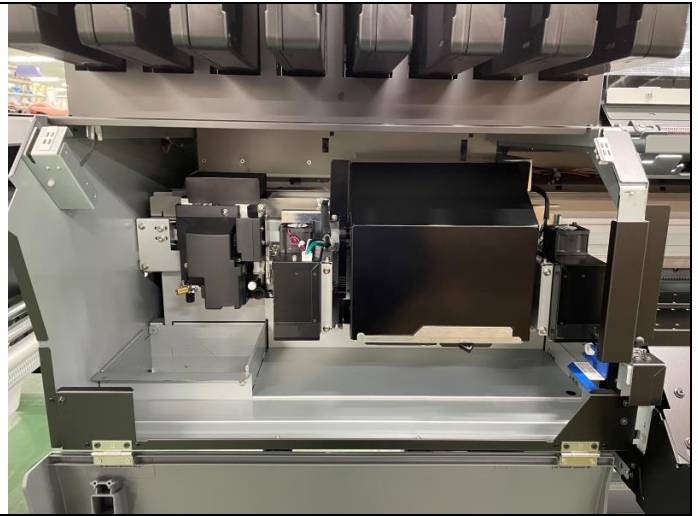
Step 63 / 67

When ink filling is completed, the display will show [ATTACH CARRIAGE COVER]. The print head carriage will move to the maintenance space again. After attaching the carriage cover, press [ENTER].



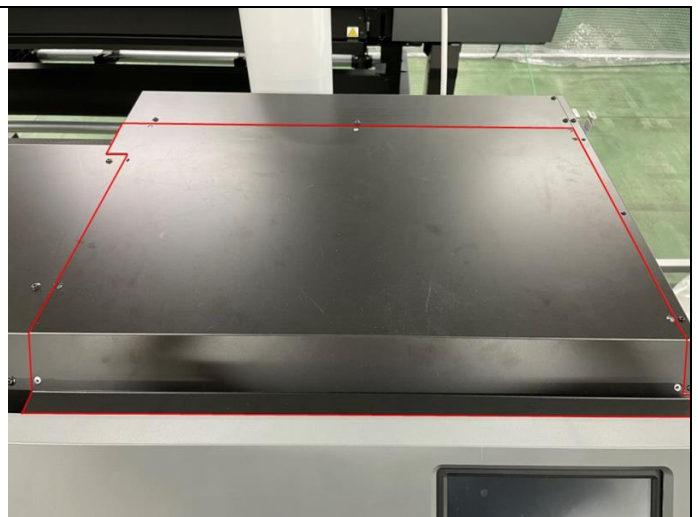
Step 64 / 67

Detail1: Carriage cover



Step 65 / 67

Attach the cover on the top of the print head.



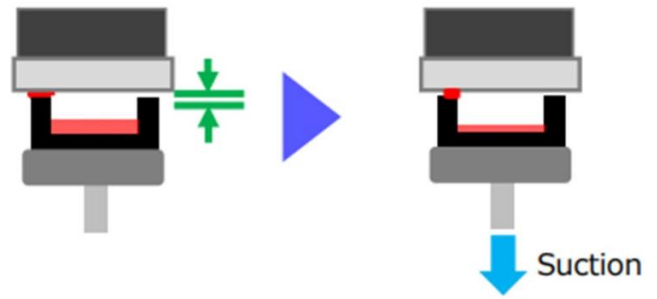
Step 66 / 67

After the replacement work is completed, perform [M-OPEN ADJUST] from the [I/S MENU].



Step 67 / 67

[M-OPEN ADJUST] performs micro-opening ink suction, which is performed by [CAP CHECK] on existing models.



LG-645430 Main Board Replacement

LG-645430 Main Board Replacement

Information

Step 1 / 6

Necessary Tools

交換に必要なツール/Necessary tools

Peck2	
プラスドライバー No.2 No.2 Phillips screwdriver	

Step 2 / 6

Special tools

特殊治具/Special Tools

None	
------	---

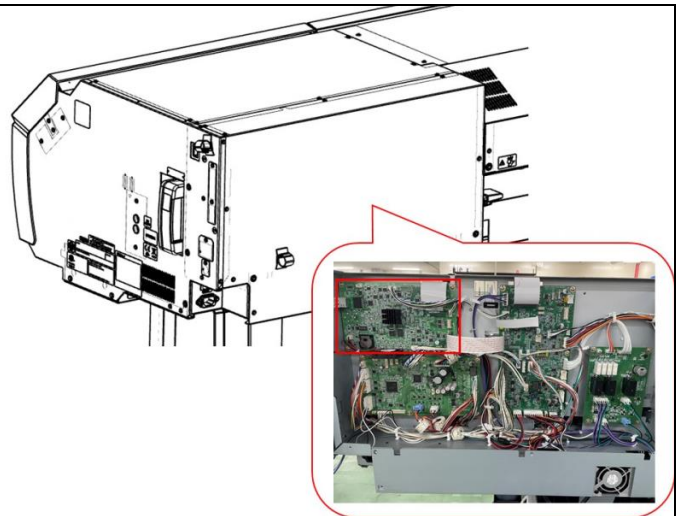
Step 3 / 6

Typical work time

作業内容	時間
メインボード交換 (Peck2 でのパラメーターの移し替えが不可能な場合)	40 分
メインボード交換 (Peck 2 でのパラメーターの移し替えが可能な場合)	20 分
Contents of work	Time
Main board replacement (When parameters cannot be transferred by Peck2)	40 min.
Main board replacement (When parameters can be transferred by Peck2)	20 min.

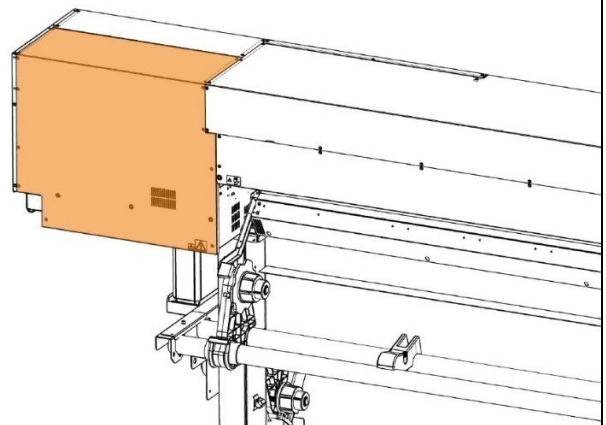
Step 4 / 6

Outline Diagram



Step 5 / 6

Cover That Needs to Be Removed



Step 6 / 6

To prevent static damage, discharge static electricity from your body before you touch any of the electronic parts. You can do so by touching an unpainted metal surface.



LG-645430 Main Board Replacement

LG-645430 Main Board Replacement

Procedure

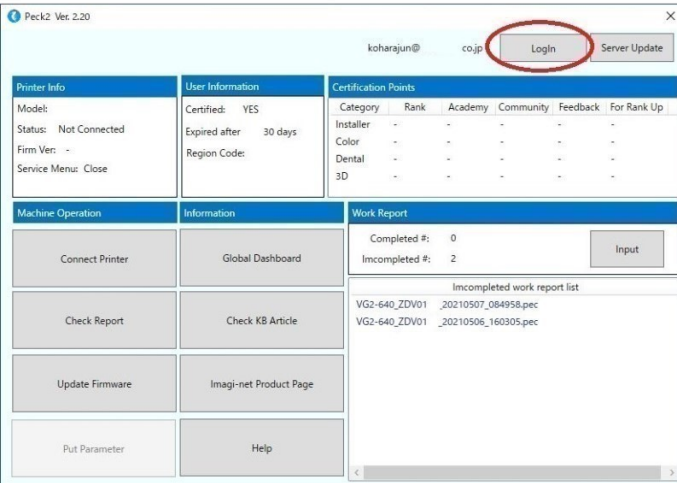
Step 1 / 52

When you start Peck2 and connect the machine from [Connect Printer], the machine will automatically retrieve the parameters to the specified folder.



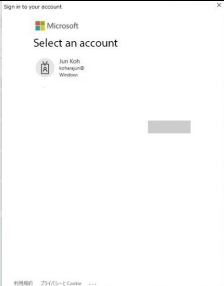
Step 2 / 52

Detail1: Click the [Login] button.



Step 3 / 52

Detail2: Log in with Imagi-net ID.



Step 4 / 52

Detail3: Click the [Connect Printer] button.

The screenshot shows the Peck2 Ver. 2.20 interface. The 'Machine Operation' section has a 'Connect Printer' button highlighted with a red circle. Other buttons in this section include 'Check Report', 'Update Firmware', 'Put Parameter', 'Global Dashboard', 'Check KB Article', 'Imagi-net Product Page', and 'Help'. The 'User Information' section shows 'Certified: YES', 'Expired after: 30 days', and 'Region Code:'. The 'Certification Points' table is also visible.

Category	Rank	Academy	Community	Feedback	For Rank Up
Installer	-	-	-	-	-
Color	-	-	-	-	-
Dental	-	-	-	-	-
3D	-	-	-	-	-

Model	Rank	Academy	Community	Feedback	For Rank Up
VG2-640_ZDV01	0	0	0	0	200
VG2-640_ZDV0	0	0	0	0	200
3D	0	0	0	0	200

Step 5 / 52

Detail4: Enter IP address of the machine to be connected.

The screenshot shows the Peck2 Ver. 2.20 interface with the 'Connect Printer' dialog box open. The dialog box has a 'Select' dropdown menu showing 'VG2-640' and '11.129.52'. Below it is an 'Input IP Address' field. The 'Connect' and 'Close' buttons are at the bottom of the dialog box.

Step 6 / 52

Detail5: When the printer is connected, printer information is shown in [Printer Info].

The screenshot shows the Peck2 Ver. 2.20 interface with the 'Printer Info' section highlighted by a red box. The 'Printer Info' section displays the following information:

Model	Rank	Academy	Community	Feedback	For Rank Up
VG2-640_ZDV01	0	0	0	0	200
VG2-640_ZDV0	0	0	0	0	200
3D	0	0	0	0	200

The 'Printer Info' section also shows 'Status: UnSetup', 'Firm Ver: 2.00', and 'Service Menu: Open'. The 'Machine Operation' section shows the 'Connect Printer' button.

Step 7 / 52

Detail6: When the printer is connected, the parameters are automatically retrieved. Click on the Put Parameter button to check the file.

Peck2 Ver: 2.20

koharjun@ .co.jp Login Server Update

Printer Info		User Information		Certification Points					
Model: VG2-640_ZDV01	Certified: YES			Category	Rank	Academy	Community	Feedback	For Rank Up
Status: UnSetup	Expired after: 30 days			Installer	Certified	0	*	*	*
Firm Ver: 2.00				Color		0	0	0	200
Service Menu: Open				Dental		0	0	*	200
				3D		0	0	*	200

Machine Operation		Information		Work Report	
Connect Printer	Global Dashboard	Completed #: 0		Input	
Check Report	Check KB Article	Incompleted #: 2			
Update Firmware	Imagi-net Product Page	Incompleted work report list			
Put Parameter	Help	VG2-640_ZDV01 _20210507_084958.pec VG2-640_ZDV01 _20210506_160305.pec			

Step 8 / 52

Detail7: Check the date and time of the file name to make sure that the parameters have been acquired. After checking, return to the home screen without opening the file.

> AppData > Roaming > Peck2 > DeviceInfo > Parameter

VG2-640_ZDV010
4_20210507_1010
19.para

Step 9 / 52

If the parameters could not be transferred, it is necessary to manually restore the correction values before replacing the main board. Check the UV lamp luminous intensity correction values before replacing the main board.
*Default value: 80

UV LAMP MENU				↔	UV LAMP MENU				↔
CORRECTION				▶	CORRECTION				▶
CORRECTION				↔	CORRECTION				↔
LAMP L				▶	LAMP R				▶
ALL	#1	#2	↔		ALL	#1	#2	↔	
80	80	80	▶		80	80	80	▶	
#3				↔	#3				↔
#4				↔	#4				↔
80				↔	80				↔
80				↔	80				↔

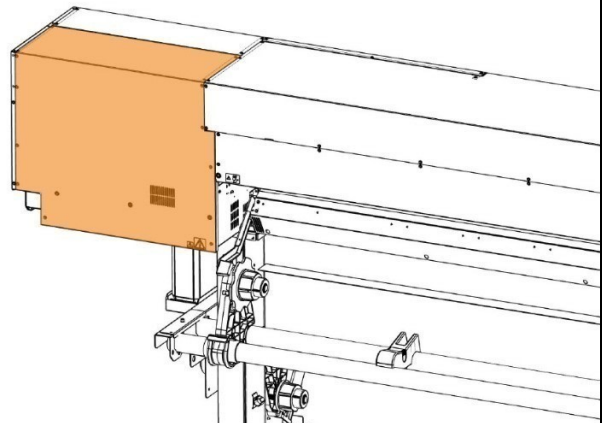
Step 10 / 52

Turn off the main power switch and unplug the power cable.



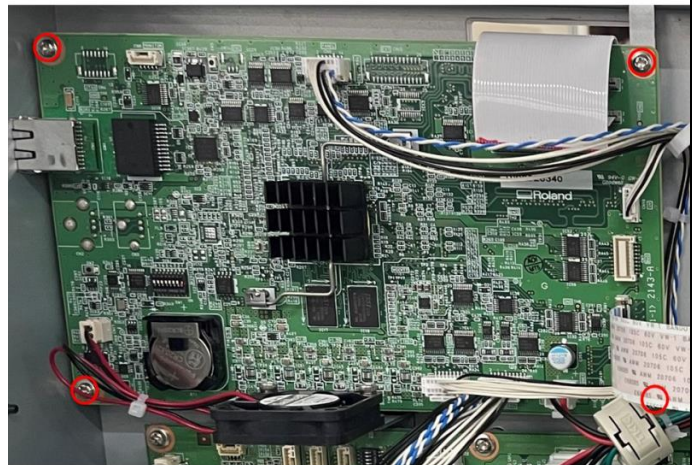
Step 11 / 52

Remove the cover.



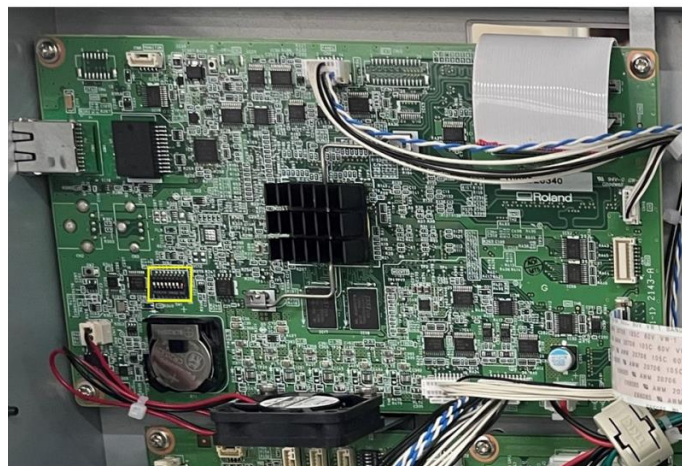
Step 12 / 52

Remove the connectors and remove the main board.



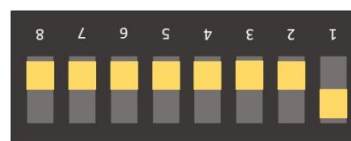
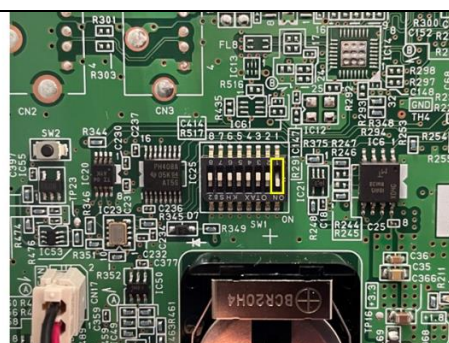
Step 13 / 52

Set 1 of DIP SW of the new main board to ON.



Step 14 / 52

Detail1: Set DIP SW1 to ON.



Step 15 / 52

Make sure to attach the removed battery to the new main board.



次の手順

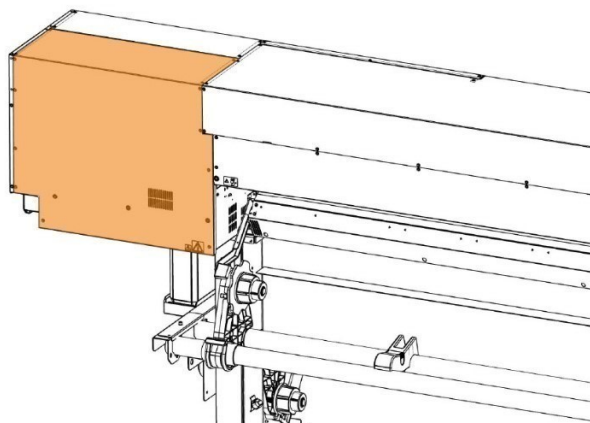
電池交換

Next Step

Battery replacement

Step 16 / 52

Attach the cover.



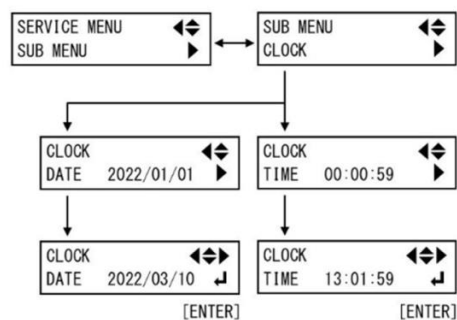
Step 17 / 52

The following is the procedure when parameters can be transferred by Peck2.
If there are no parameters, proceed to the following [When parameters cannot be transferred by Peck2].



Step 18 / 52

Set the date and time. Set [DATE] in the order of [year/month/day].



Step 19 / 52

Enter Temporary IP address mode.



Step 20 / 52

Perform firmware installation. Refer to [Firmware Installation].



次の手順

ファームウェアインストール

Next Step

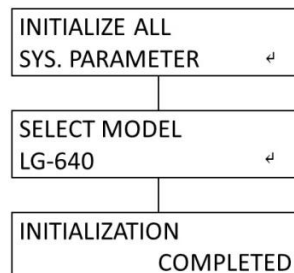
Firmware Installation

Step 21 / 52

Perform system parameter initialization.



OR



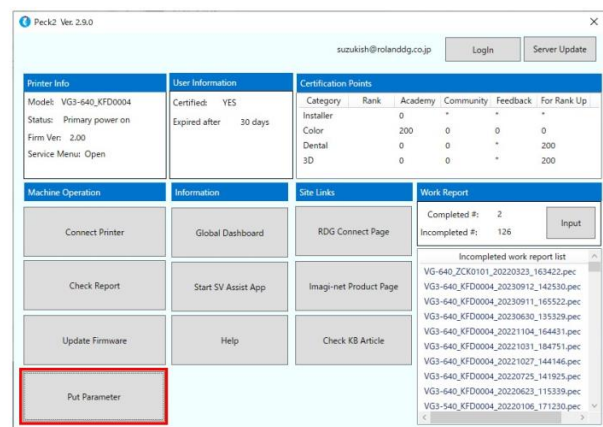
Step 22 / 52

Detail1: Enter Temporary IP address mode.



Step 23 / 52

Performs Put parameters.



Step 24 / 52

The following is the procedure when Parameter could not be transferred by Peck2. When Parameter has been transferred, the work is completed.



Step 25 / 52

Perform firmware installation. Refer to [Firmware Installation].



次の手順

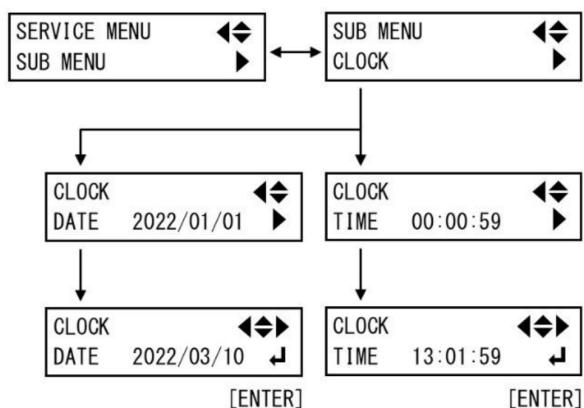
ファームウェアインストール

Next Step

Firmware Installation

Step 26 / 52

Perform the date and time settings. Set the Date in the following order: YYYY/MM/DD.



Step 27 / 52

Detail1: Enter Temporary IP address mode.

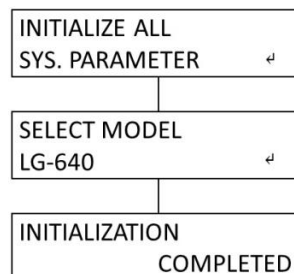


Step 28 / 52

Perform system parameter initialization.

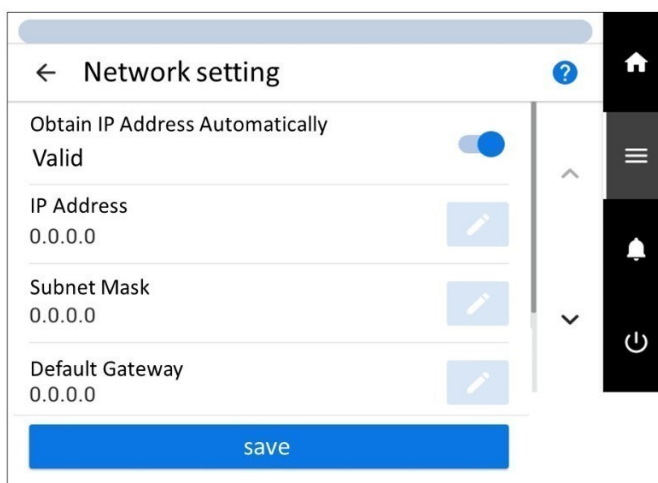


OR



Step 29 / 52

Go to User Menu and set IP Address.



Step 30 / 52

Detail1: Enter Temporary IP address mode.



次の手順

暫定IPアドレス設定

Next Step

Temporary IP address setting

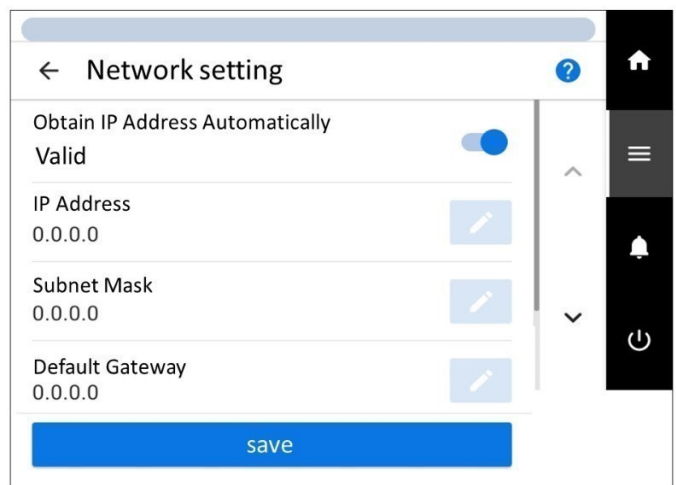
Step 31 / 52

Detail2: Connect Peck2 with the machine.



Step 32 / 52

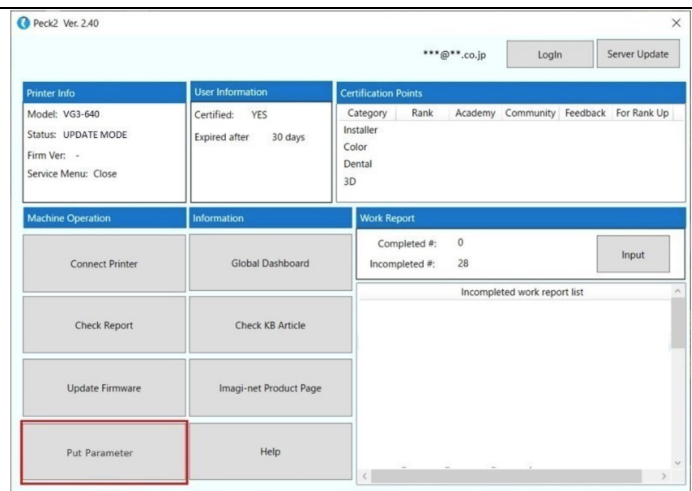
Detail3: Go to User Menu and set IP Address.



Step 33 / 52

Below, those who forgot to change the clock when entering the parameters

If you get a parameter with Peck and you notice a mistake early on, you can recover by rewriting the parameter.



Step 34 / 52

The following is for those who have not obtained the parameters or who have passed a long time



Step 35 / 52

In order to make the aircraft recognize that the menu has been executed, execute the following menu.

Replacement of wipers, sponges and cap tops ** (no need to replace them with new ones)**



Step 36 / 52

Perform manual cleaning, wiper tray cleaning

As soon as the cleaning is finished, it is finished.



Step 37 / 52

Language and unit settings



次の手順

言語・単位設定

Next Step

Language and unit settings

Step 38 / 52

Date and time settings



次の手順

日時設定

Next Step

Date and time settings

Step 39 / 52

Limit position initialization: Refer to [LIMIT POSITION INITIALIZATION].



次の手順

リミット位置調整

Next Step

Limit position adjustment

Step 40 / 52

Serial number input



次の手順

シリアルナンバー入力

Next Step

Serial number input

Step 41 / 52

Ink type setting [SUB MENU] > [
CHANGE INKTYPE]



次の手順

インクタイプ設定

Next Step

Ink type setting

Step 42 / 52

Wiper position adjustment: Refer to [
wiper position adjustment].



次の手順

ワイパー位置調整

Next Step

Wiper position adjustment

Step 43 / 52

Cap height adjustment: Refer to [CAP Height Adjustment].



次の手順

キャップ高さ調整

Next Step

Cap height adjustment

Step 44 / 52

Print head alignment: Refer to [Print Head Alignment] Adjust only Horizontal and M-GAP DEFAULT.



次の手順

ヘッド位置調整

Next Step

Print head adjustment

Step 45 / 52

4 COLOR ADJUST/M-GAP DEFAULT Adjustment [see Print Head Alignment]

*Adjustment work required only for 4-color ink type.



次の手順

(4色機のみ)

吐出量調整

M-GAP DEFAULT調整

Next Step

4 COLOR adjustment
(4 colors mode only) M-GAP DEFAULT adjustment

Step 46 / 52

Feed calibration: Refer to [Feed Calibration].



次の手順

距離補正

Next Step

Feed calibration

Step 47 / 52

Tool Pressure Adjustment: Refer ti [Tool Pressure Adjustment].



次の手順

筆圧調整

Next Step

Tool pressure adjustment

Step 48 / 52

Multi-sensor adjustment [See Multi-sensor adjustment].



次の手順

マルチセンサー調整

Next Step

Multi sensor adjustment

Step 49 / 52

Crop cut adjustment [CUTTING MENU]

> [CROP-CUT ADJ.].



次の手順

クロープカット調整

Next Step

Crop cut adjustment

Step 50 / 52

Print cut adjustment [CUTTING MENU]

> [PRINT-CUT ADJ.].



次の手順

プリント&カット調整

Next Step

Print & cut adjustment

Step 51 / 52

UV lamp serial number setting [UV
LAMP MENU] > [SERIAL NO.].



次の手順

UVランプシリアル番号設定

Next Step

UV lamp serial number input

Step 52 / 52

UV lamp luminous intensity correction [
UV LAMP MENU] > [CORRECTION] *

Enter the correction value confirmed
before main board replacement.



次の手順

UVランプ発光強度補正

Next Step

UV lamp
emission intensity correction

LG-645430 Battery Replacement

LG-645430 Battery Replacement Information

Step 1 / 4

Necessary tools

一般ツール/General Tool

プラスドライバー No.2
No.2 Phillips screwdriver



特殊治具/Special Tools

無し
None

Step 2 / 4

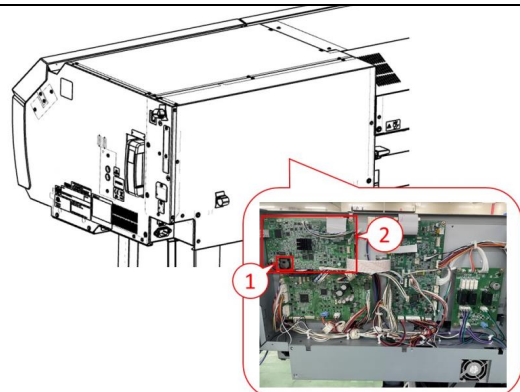
Typical Work Time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
電池交換 Battery Replacement	7 min.
日時の設定 Time and date setting	2 min.

Step 3 / 4

1. Battery, 2. Main board



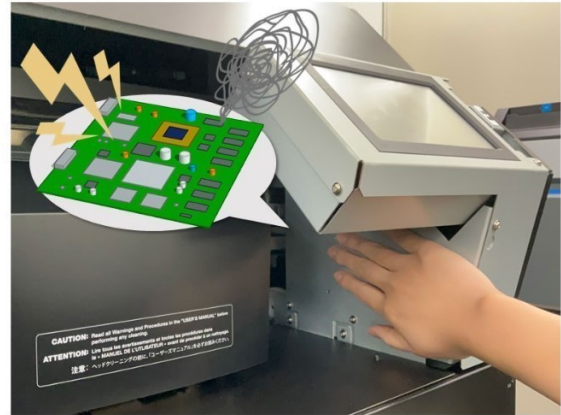
Friday, July 4, 2025 6:36 AM

Language: en

Step 4 / 4

To prevent static damage, discharge static electricity from your body before you touch any of the electronic parts. You can do so by touching an unpainted metal surface.

CAUTION !

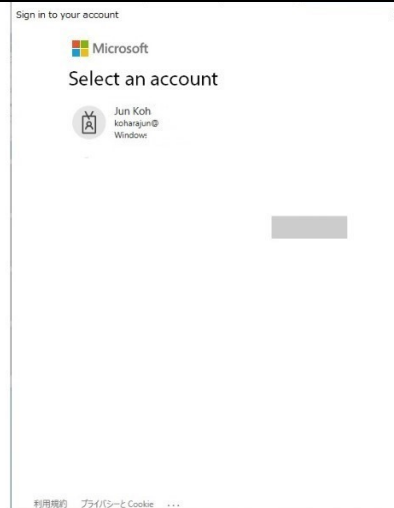


LG-645430 Battery Replacement

LG-645430 Battery Replacement Procedure

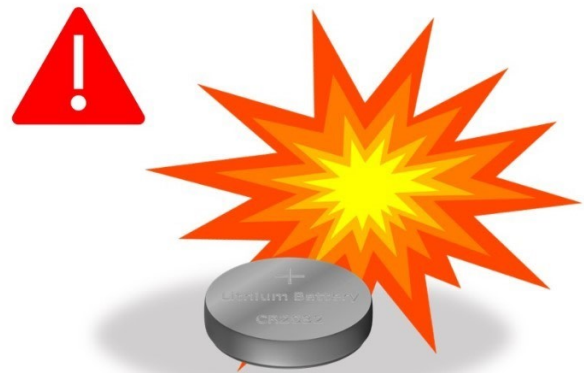
Step 1 / 25

Detail4: Log in with Imagi-net ID.



Step 2 / 25

CAUTION: Danger of explosion if the lithium battery is incorrectly replaced. Replace only with the same or equivalent type attached to the machine. Dispose of used battery in accordance with the manufacturer's instructions. Lithium battery:CR2032



Step 3 / 25

Detail1: PROHIBITED: Do not recharge, short-circuit, disassemble the lithium battery, nor put it into fire. It may cause heat, explosion and fire.



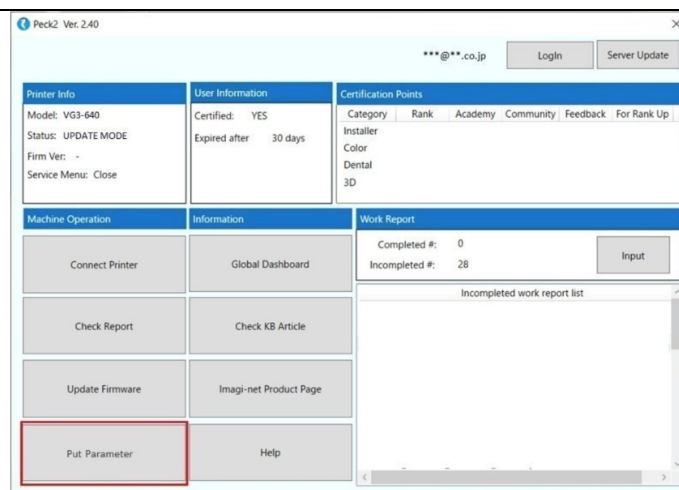
Detail2: DISPOSAL: Put tape around the lithium battery for insulation for disposal or preservation. Otherwise, it may cause heat, explosion and fire.



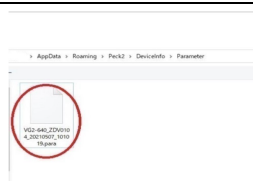
Connect the aircraft to the Peck.



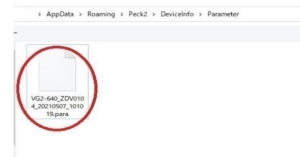
If you can connect to the printer, the parameters can be obtained automatically. Click the Put Parameter button to check the file.



Check the date and time of the file name

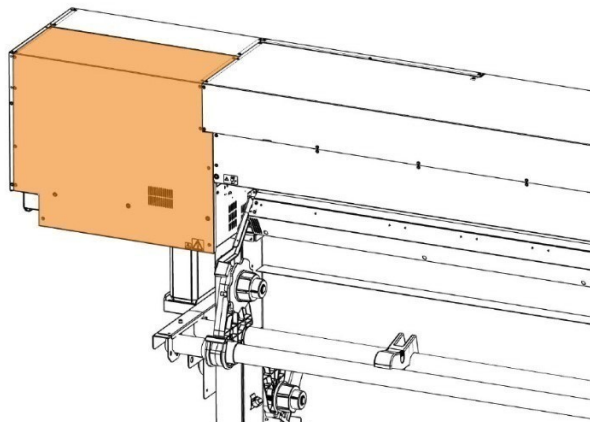


to see if the parameters are available.
Once confirmed, return to the home
screen without opening the file.



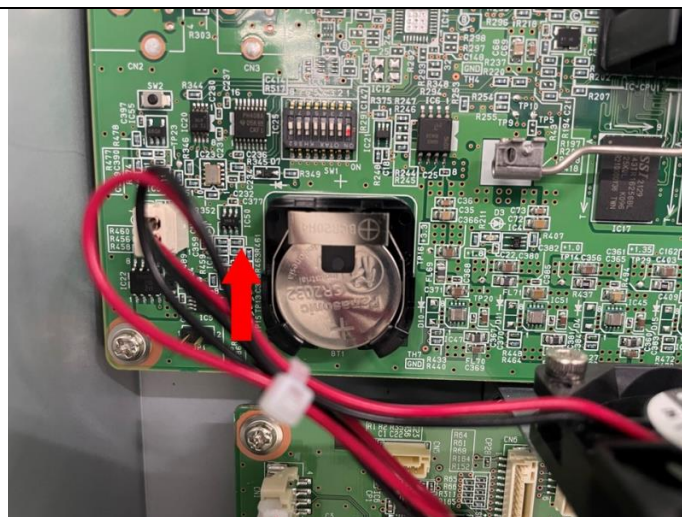
Step 8 / 25

Remove the cover.



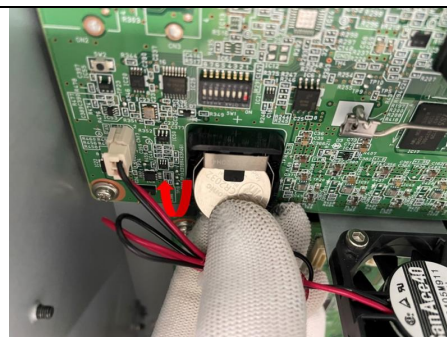
Step 9 / 25

Remove the battery on the main board
by pushing it back and tilting upward.



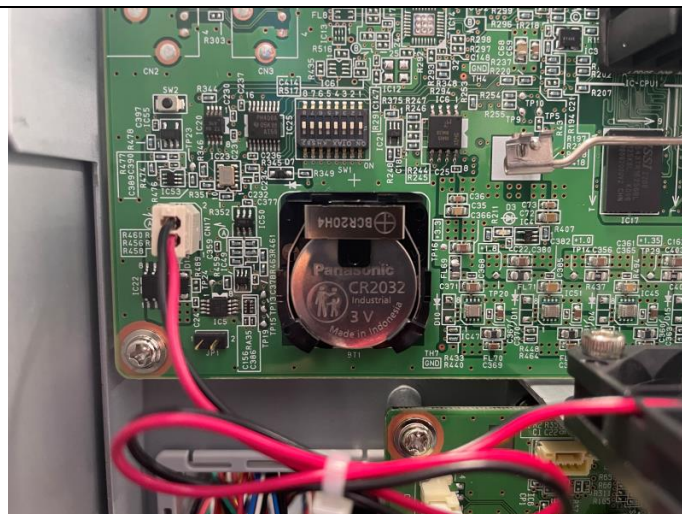
Step 10 / 25

Detail1: Tilt upward to remove the
battery.



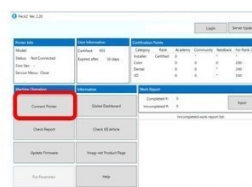
Step 11 / 25

Replace the battery with a new one. Be sure to correctly orient the battery.



Step 12 / 25

Turn on the power and connect Peck2 to the machine, and enter the service mode.



Step 13 / 25

Detail1: Plug the power cord and turn on the power.



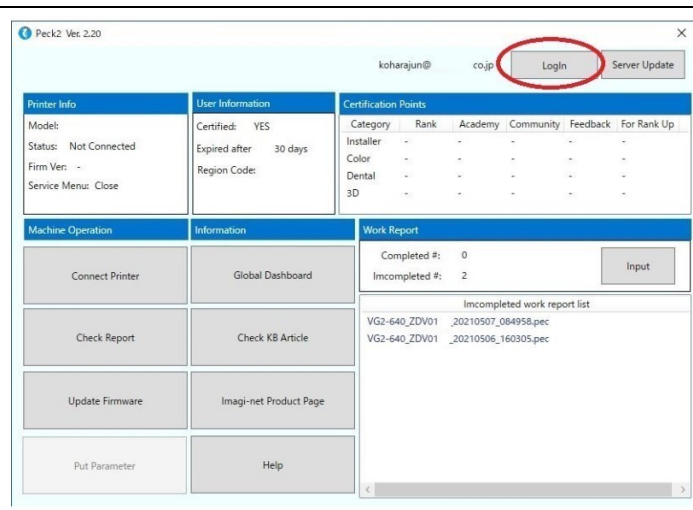
Step 14 / 25

Detail2: Start Peck2.



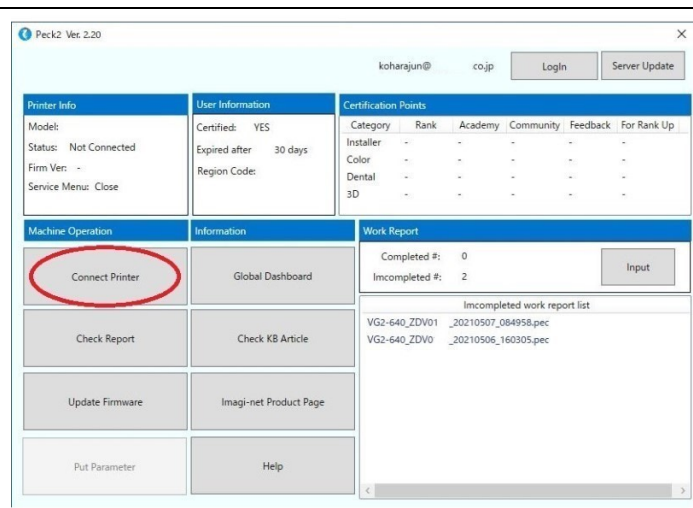
Step 15 / 25

Detail3: Click the [Login] button.



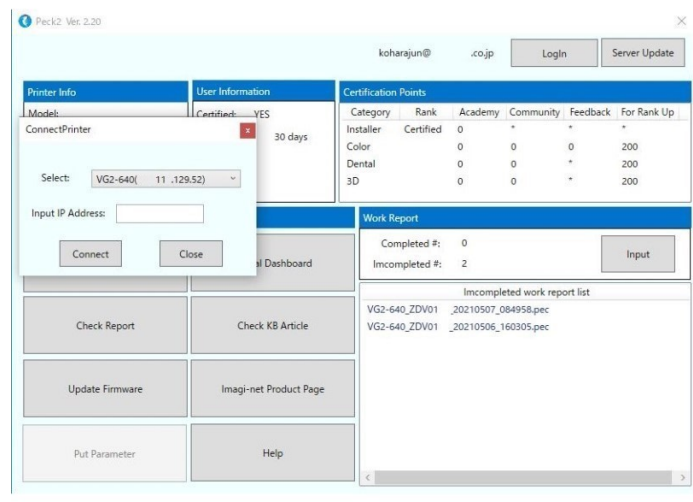
Step 16 / 25

Detail5: Click the [Connect Printer] button.



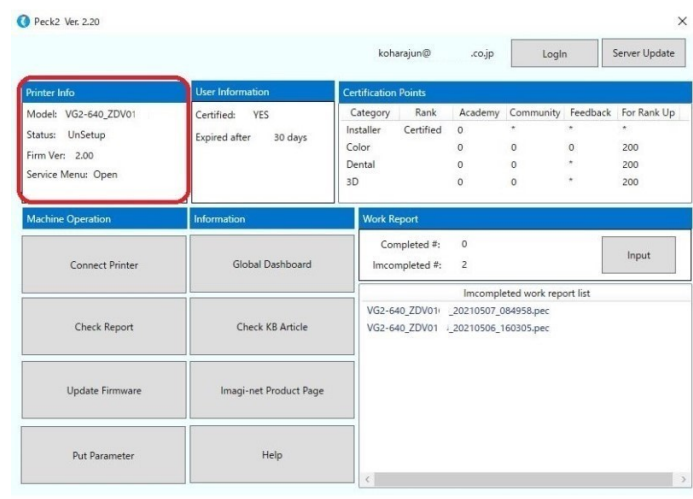
Step 17 / 25

Detail6: Enter IP address of the machine to be connected.



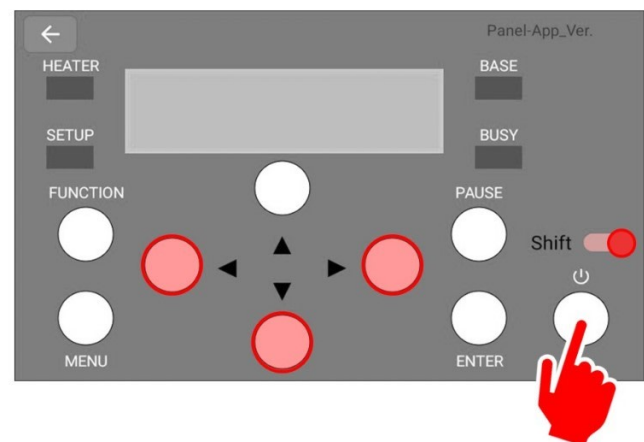
Step 18 / 25

Detail7: When the printer is connected, printer information is shown in [Printer Info].



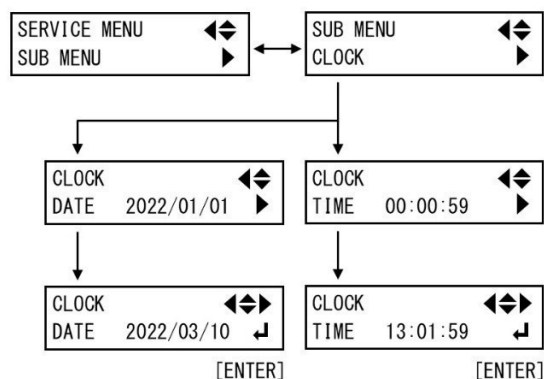
Step 19 / 25

Detail8: Press [Shift] > [] + [] + [] + [Sub power switch] on the panel of the machine to enter the service mode. By pressing [Shift], you can press multiple buttons at the same time.



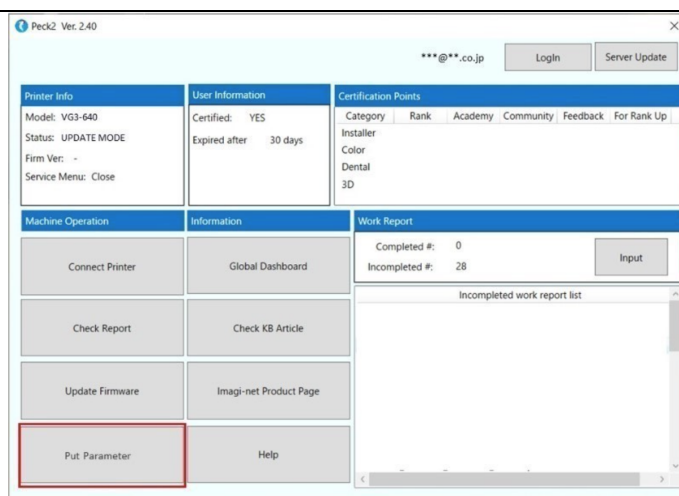
Step 20 / 25

Refer to [Date and Time Settings] and set the date and time.



Step 21 / 25

Execute the Put parameter.



Step 22 / 25

Below, those who forgot to change the clock when entering the parameters

If you get a parameter with Peck and you notice a mistake early on, you can recover by rewriting the parameter.



Step 23 / 25

The following is for those who have not obtained the parameters or who have passed a long time



Step 24 / 25

In order to make the aircraft recognize that the menu has been executed, execute the following menu.

Replacement of wipers, sponges and cap tops ** (no need to replace them with new ones)**



Step 25 / 25

Perform manual cleaning, wiper tray cleaning

As soon as the cleaning is finished, it is finished.



LG-645430 Servo Board Replacement

LG-645430 Servo Board Replacement Information

Step 1 / 5

Necessary Tools

一般ツール/General Tool

プラスドライバー No.2
No.2 Phillips screwdriver



特殊治具/Special Tools

無し
None

Step 2 / 5

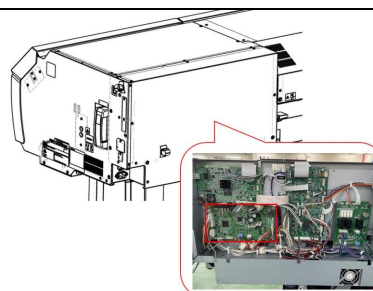
Typical Work Time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
サーボボード交換 Servo Board Replacement	20 min.

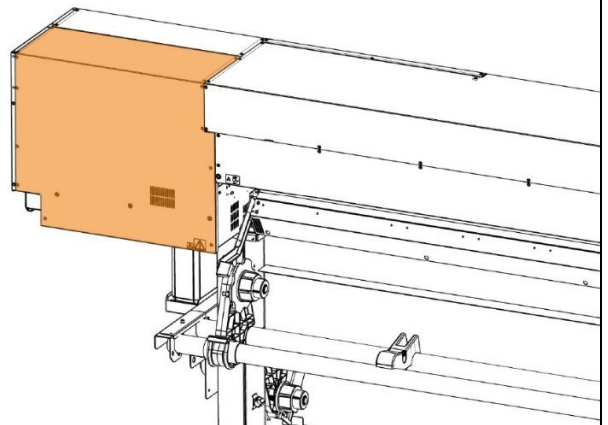
Step 3 / 5

Servo board



Step 4 / 5

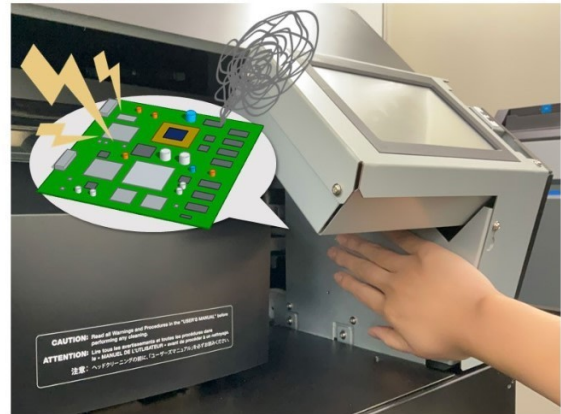
Cover that needs to be removed.



Step 5 / 5

To prevent damage from static electricity, release static electricity from your body before touching electronic components. Touching an unpainted metal surface helps to release static electricity.

CAUTION !



LG-645430 Servo Board Replacement

LG-645430 Servo Board Replacement Procedure

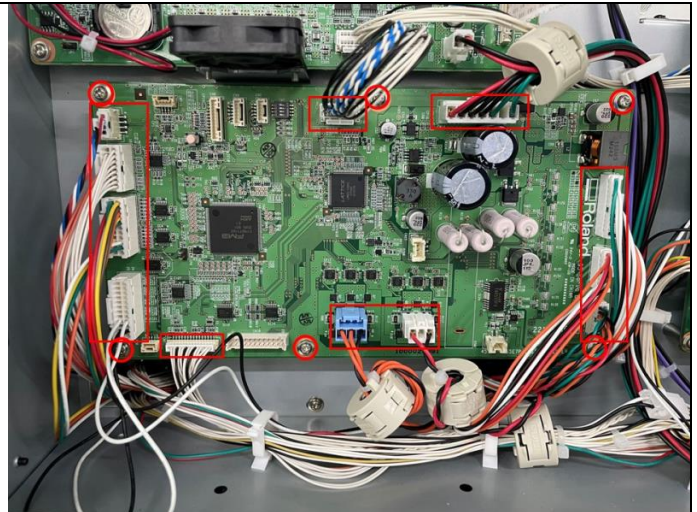
Step 1 / 4

Turn off the main power and unplug the power cable.



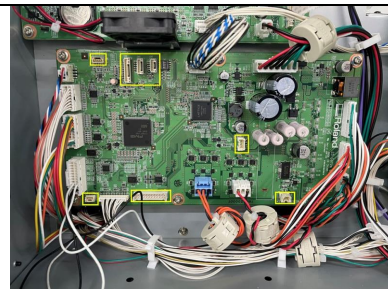
Step 2 / 4

Remove the connected connectors and screws and replace the servo board with a new one.



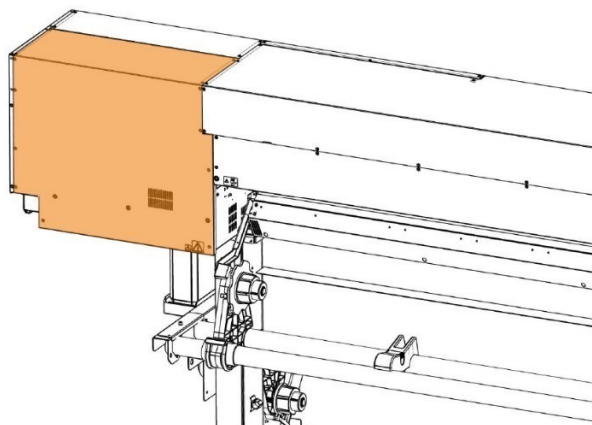
Step 3 / 4

Detail1: There is no connector to attach to the positions marked in yellow.



Step 4 / 4

Attach the cover.



LG-645430 Switching Power Supply Replacement 41V

LG-645430 Switching Power Supply Replacement 41V Information

Step 1 / 2

Necessary Tools

一般ツール/General Tool

プラスドライバー No.2
No.2 Phillips screwdriver



Step 2 / 2

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
スイッチング電源交換 SW Power Supply Replacement	20 min.

LG-645430 Switching Power Supply Replacement 41V

LG-645430 Switching Power Supply Replacement 41V Procedure

Step 1 / 28

Turn off the main power and unplug the power cable.



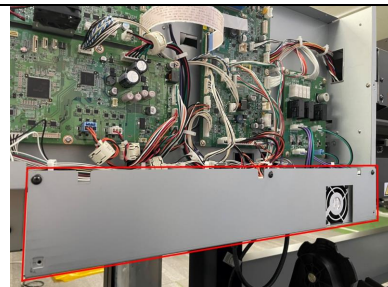
Step 2 / 28

Remove the cover on the back of the print head.



Step 3 / 28

Pull out the chassis.



Step 4 / 28

Detail1: When pulling out the chassis, remove the cables bundled with the clamps before pulling it out.



Step 5 / 28

Detail2: Remove the connector.



Step 6 / 28

Detail3: Remove the connector.



Step 7 / 28

Detail4: Screws to be removed



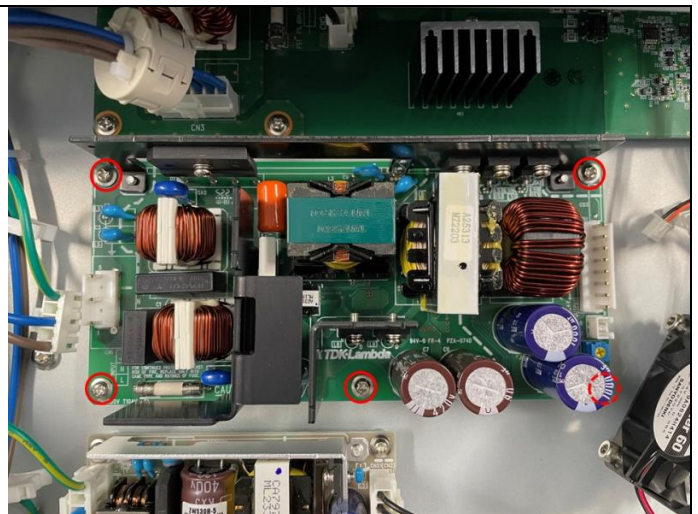
Step 8 / 28

Detail5: Screws to be removed



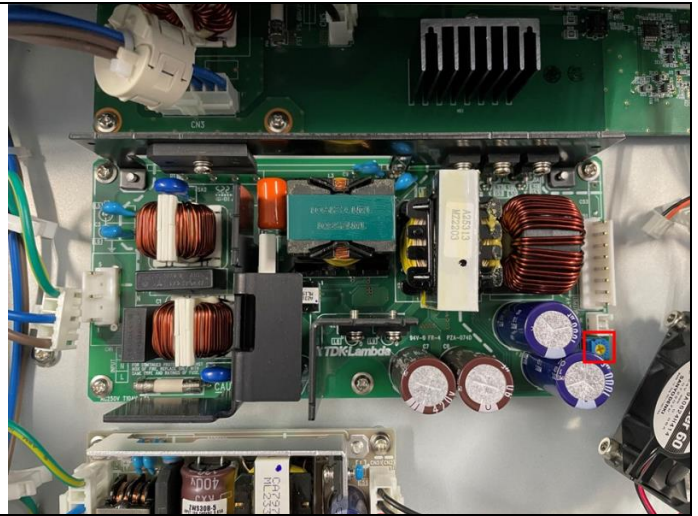
Step 9 / 28

Replace the switching power supply with a new one.



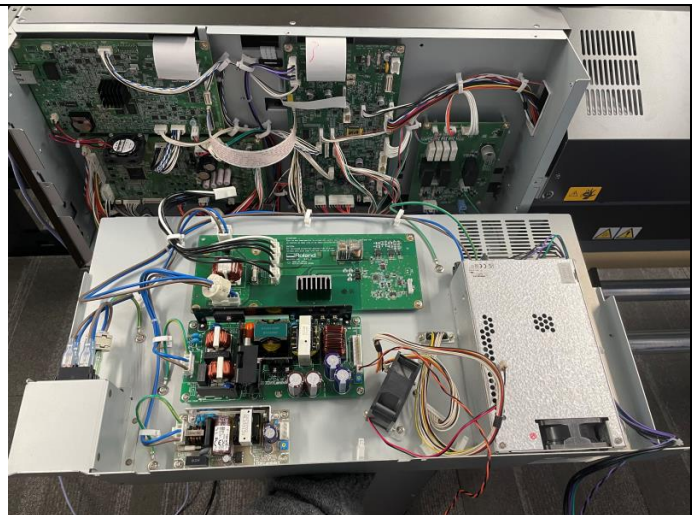
Step 10 / 28

If you happen to touch the potentiometer when replacing the switching power supply, readjust it so that the output power supply is $+41 \pm 0.1V$.



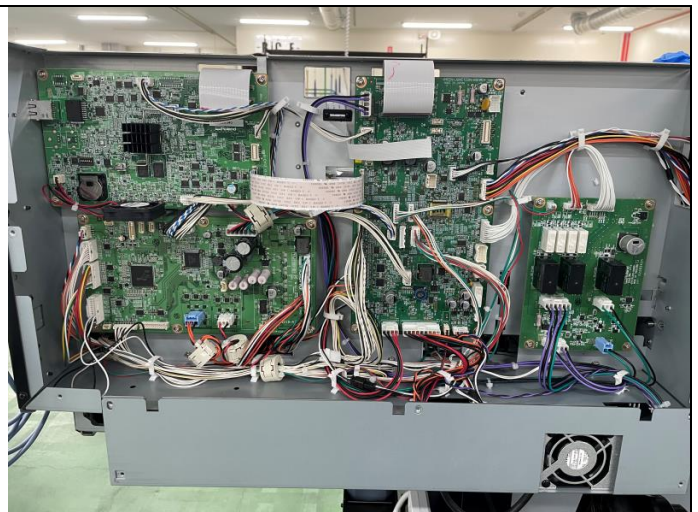
Step 11 / 28

Remove the entire chassis.



Step 12 / 28

Detail1: When removing the chassis, disconnect all connectors and remove the clamps to remove all cables that are connected from the board inside the chassis to the board on top of the chassis.



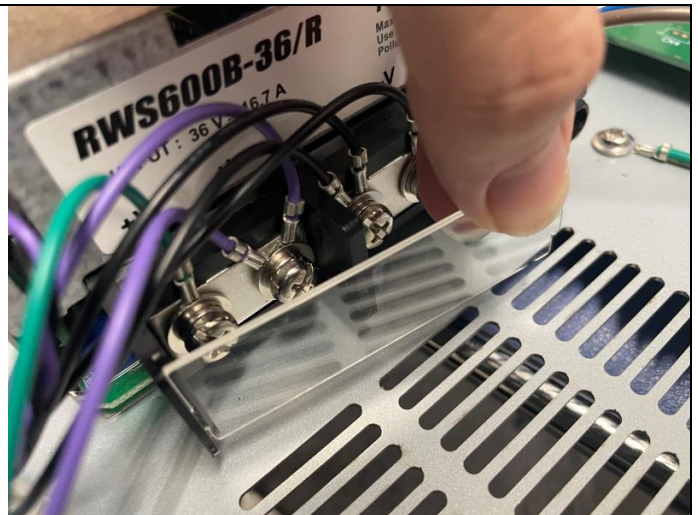
Step 13 / 28

Remove the connector.



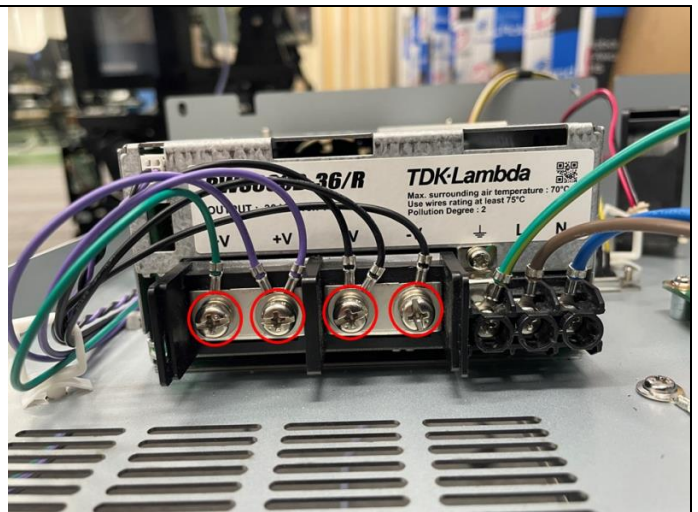
Step 14 / 28

Remove the plastic board.



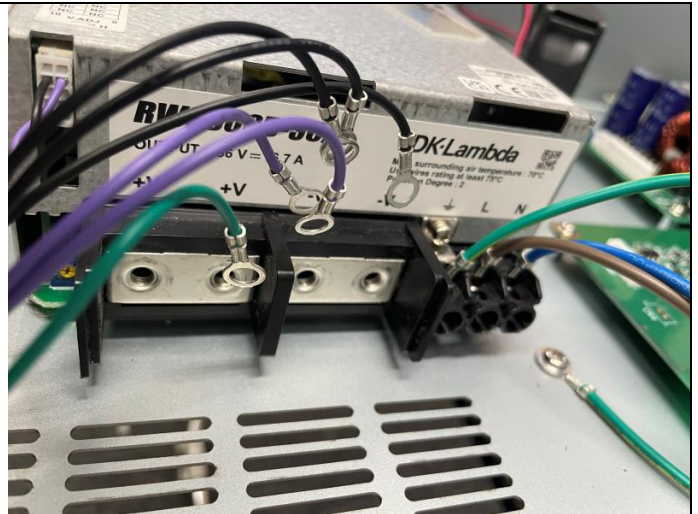
Step 15 / 28

Remove the screws and disconnect the cables.



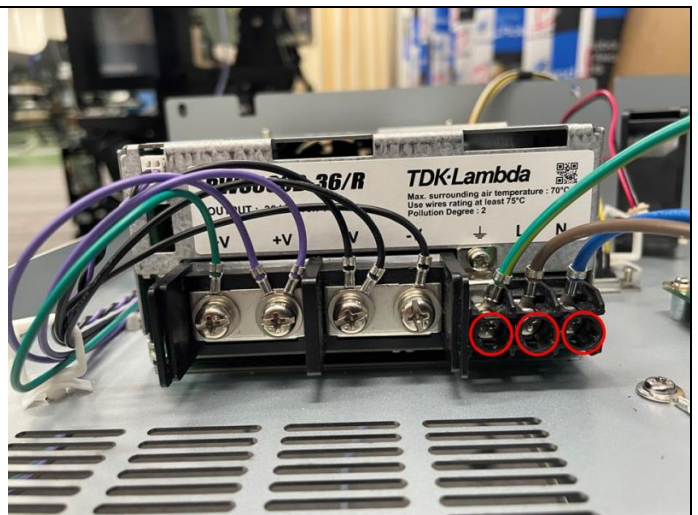
Step 16 / 28

Detail1: After screws and cables removed



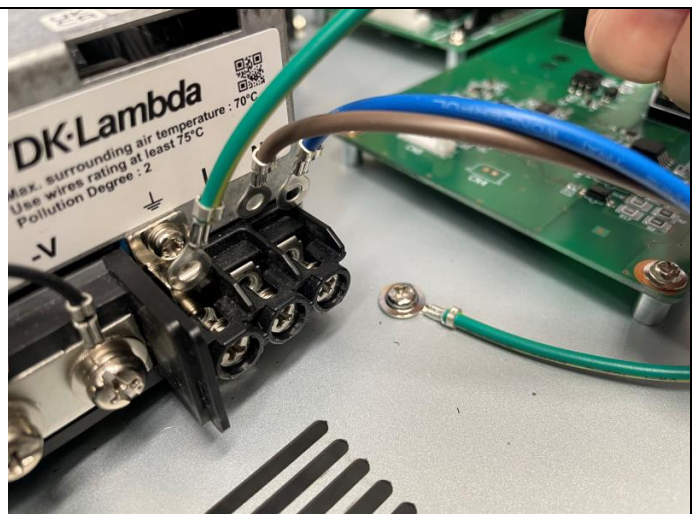
Step 17 / 28

Loosen the screws and remove the cables.



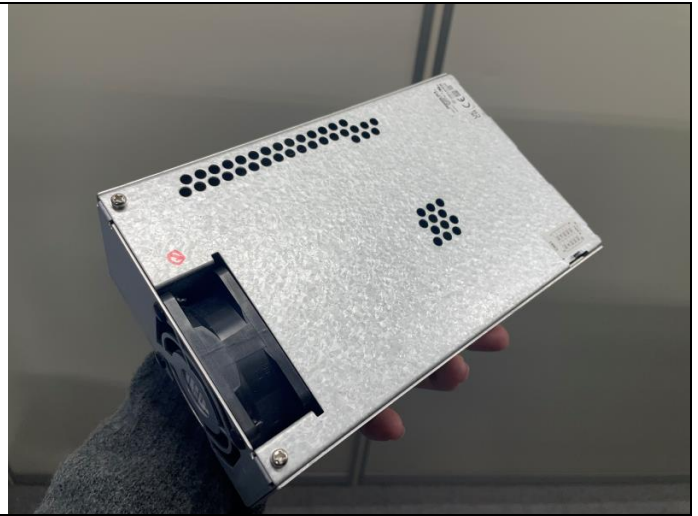
Step 18 / 28

Detail1: After cables removed



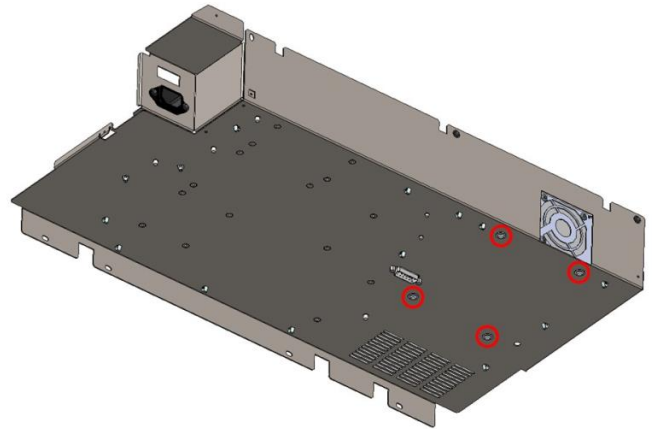
Step 19 / 28

Remove the four screws on the bottom of the chassis and replace with a new switching power supply.



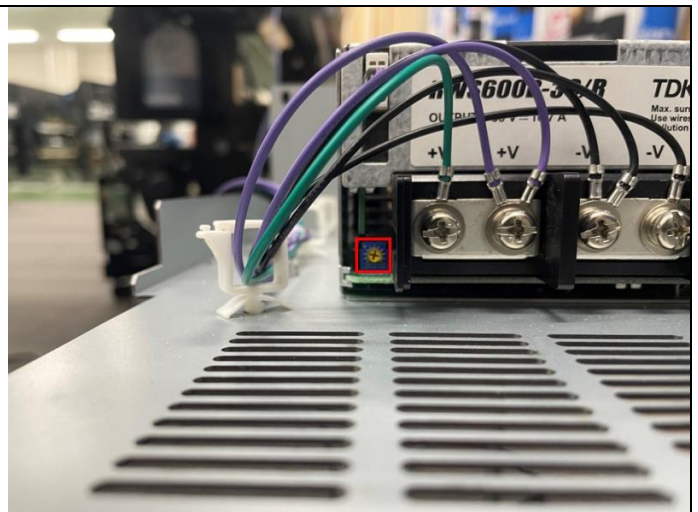
Step 20 / 28

Detail1: Screws to be removed



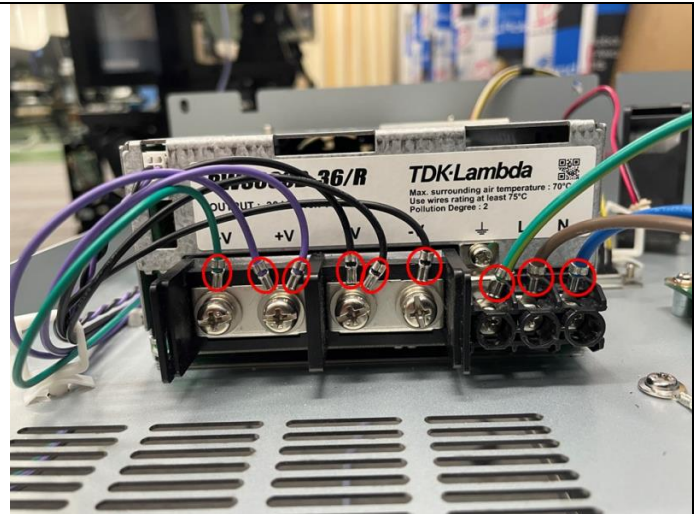
Step 21 / 28

If you happen to touch the potentiometer when replacing the switching power supply, readjust it so that the output power supply is $+41 \pm 0.1V$.



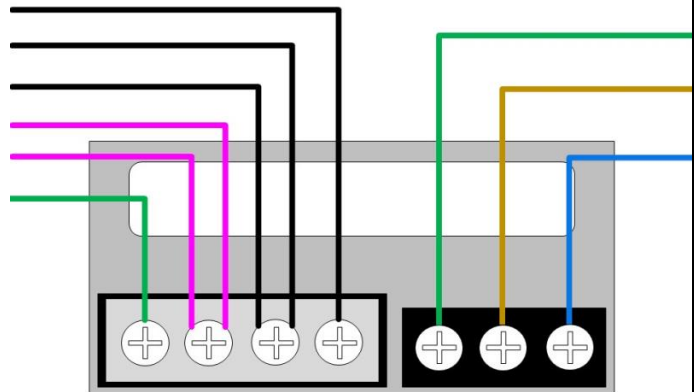
Step 22 / 28

Attach the cables, paying attention to the cable routing.



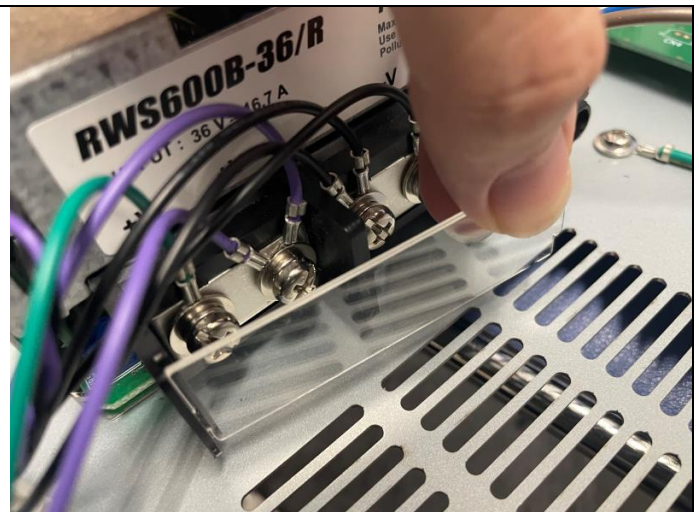
Step 23 / 28

Detail1: Cable arrangement



Step 24 / 28

Attach the plastic plate.



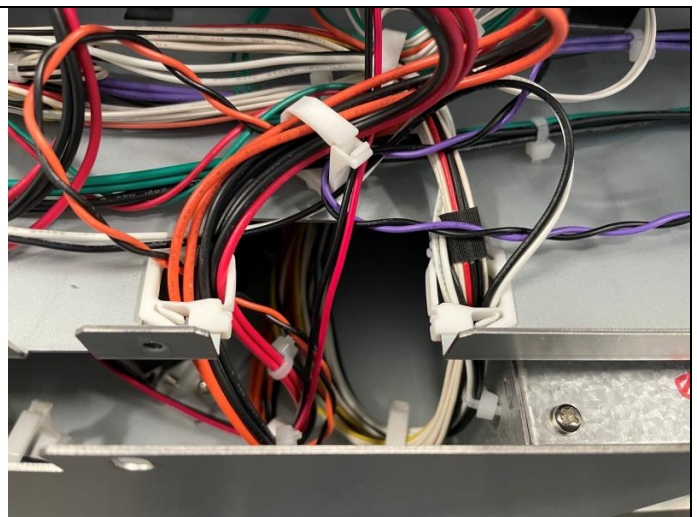
Step 25 / 28

Attach the connector.



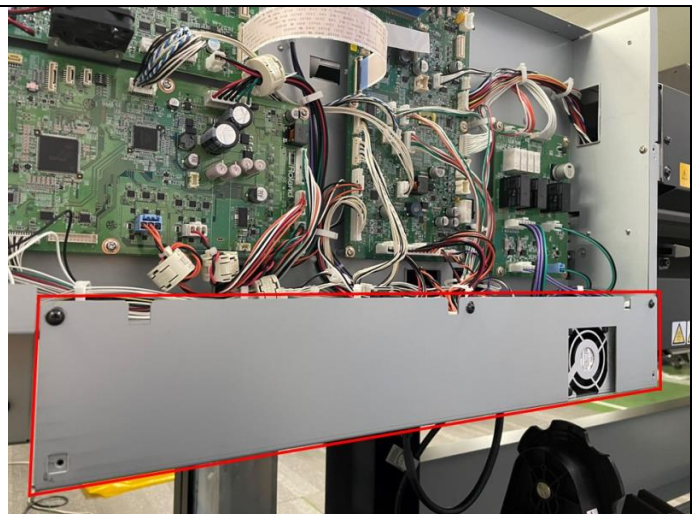
Step 26 / 28

Attach all the cables that were removed when removing the chassis, bundling them with the clamps.



Step 27 / 28

Put the chassis back on and attach the screws.



Step 28 / 28

Attach the cover.



LG-645430 Switching Power Supply Replacement 5V

LG-645430 Switching Power Supply Replacement 5V Information

Step 1 / 2

Necessary Tools

一般ツール/General Tool

プラスドライバー No.2
No.2 Phillips screwdriver



Step 2 / 2

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
スイッチング電源交換 SW Power Supply Replacement	20 min.

LG-645430 Switching Power Supply Replacement 5V

LG-645430 Switching Power Supply Replacement 5V Procedure

Step 1 / 11

Turn off the main power and unplug the power cable.



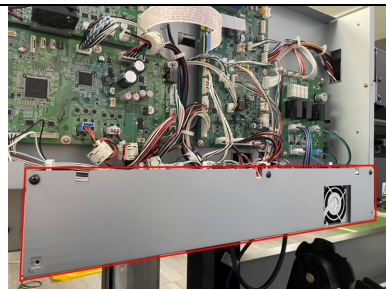
Step 2 / 11

Remove the cover on the back of the print head.



Step 3 / 11

Pull out the chassis.



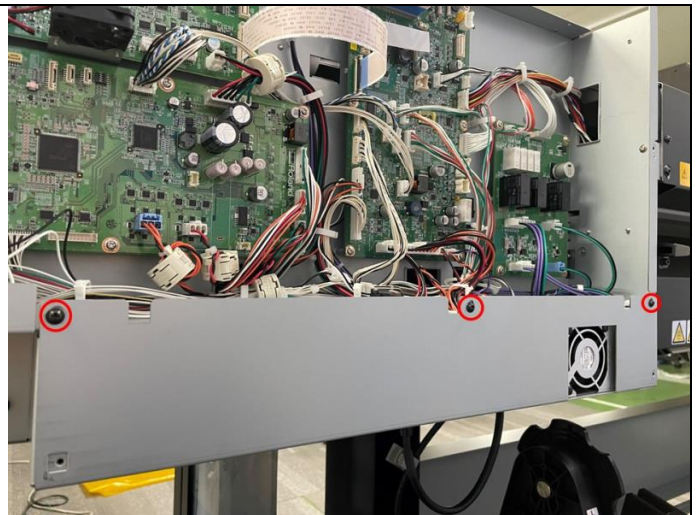
Step 4 / 11

Detail1: When pulling out the chassis, remove the cables bundled with the clamps before pulling it out.



Step 5 / 11

Detail2: Screws to be removed



Step 6 / 11

Detail3: Screws to be removed



Step 7 / 11

Replace the switching power supply with a new one.



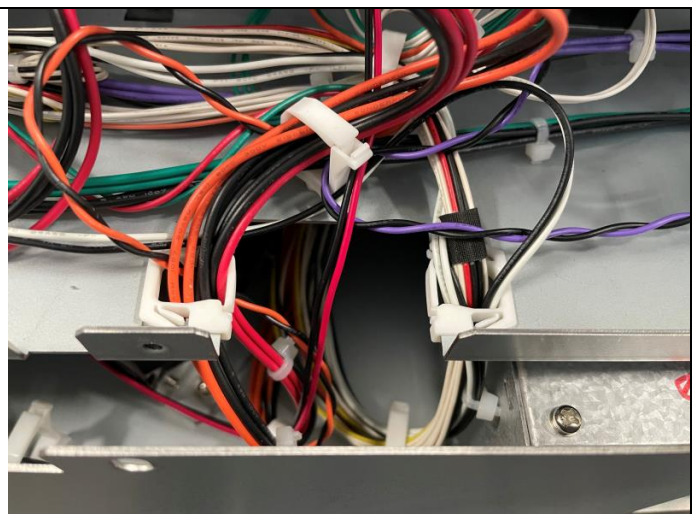
Step 8 / 11

If you happen to touch the potentiometer when replacing the switching power supply, readjust it so that the output power supply is $+5\pm0.1V$.



Step 9 / 11

Bundle all cables with clamps.



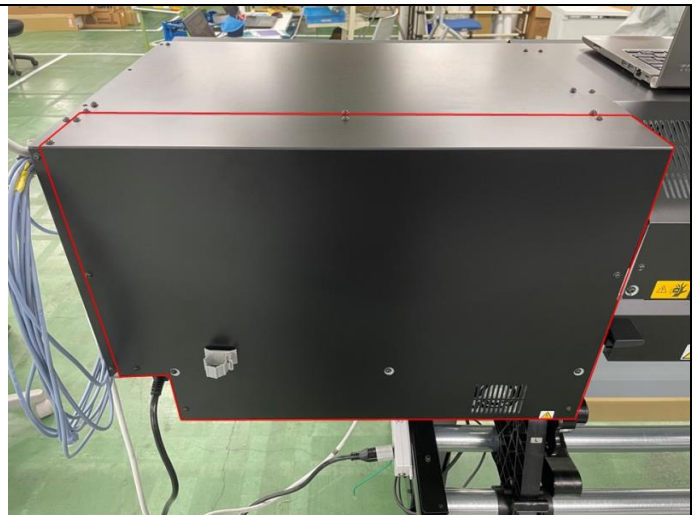
Step 10 / 11

Put back the chassis and attach the screws.



Step 11 / 11

Attach the cover.



LG-645430 Scan Motor Replacement

LG-645430 Scan Motor Replacement Information

Step 1 / 4

Necessary Tools

一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
六角レンチ 3.0 mm 3.0 mm hexagonal wrench	

Step 2 / 4

Special Tools

特殊治具/Special Tools

GREASE,FLOIL G-902 10ML_02	
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Step 3 / 4

Typical work time

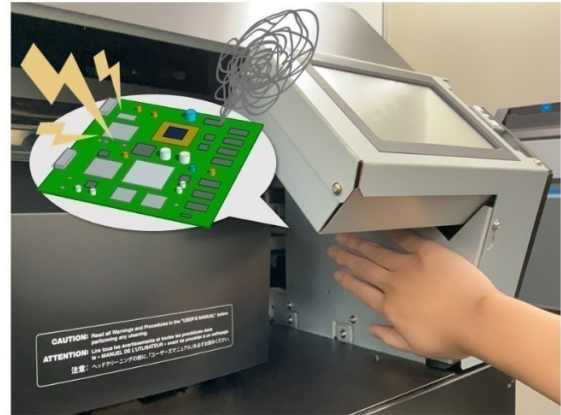
作業時間/Typical work time

作業内容/Contents of work	時間/Time
スキャンモーター交換 Scan Motor Replacement	15 min.
サーボロック確認 Servo Lock check	1 min.
エイジング確認 Aging check	5 min
モーター時間クリア Motor time clear	1 min.

Step 4 / 4

To prevent damage caused by static electricity, release static electricity from your body before touching electronic components. Touching an unpainted metal surface will release static electricity.

CAUTION !

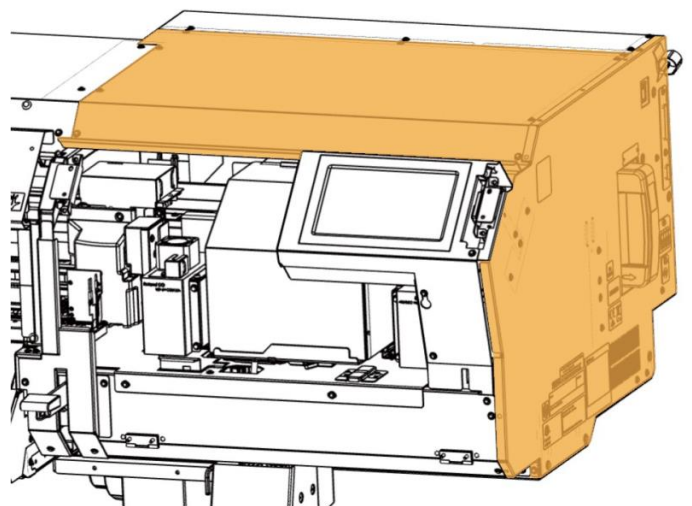


LG-645430 Scan Motor Replacement

LG-645430 Scan Motor Replacement Procedure

Step 1 / 26

Remove the covers.



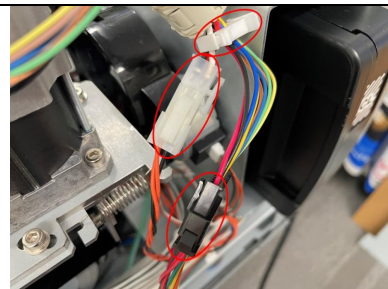
Step 2 / 26

Remove the cap UP/DOWN gear cover.



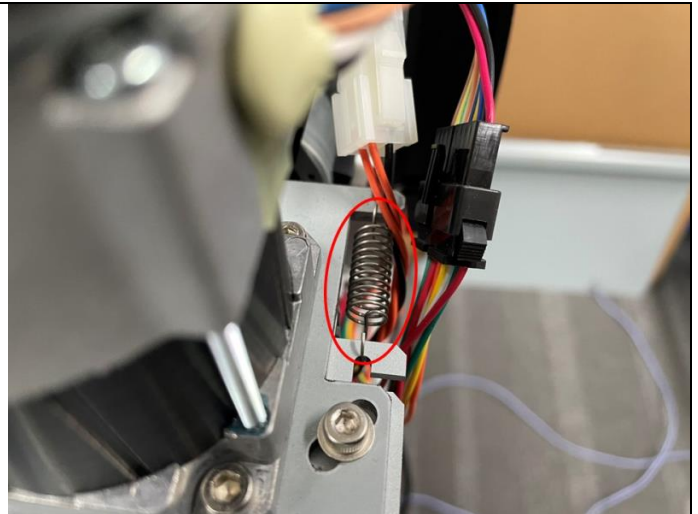
Step 3 / 26

Disconnect the motor connector cables from the clamp and remove the connector.



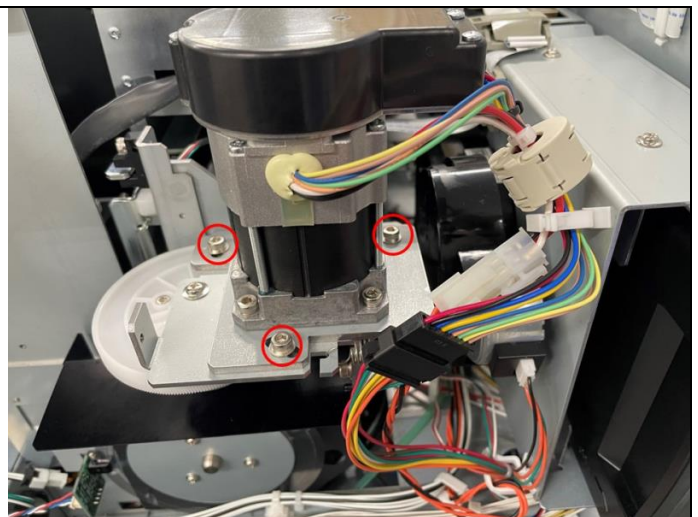
Step 4 / 26

Remove the spring.



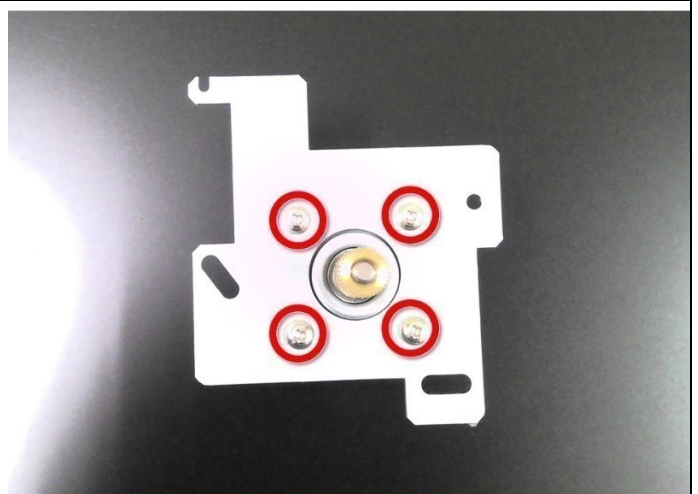
Step 5 / 26

Remove the screws and remove the motor together with the flange.



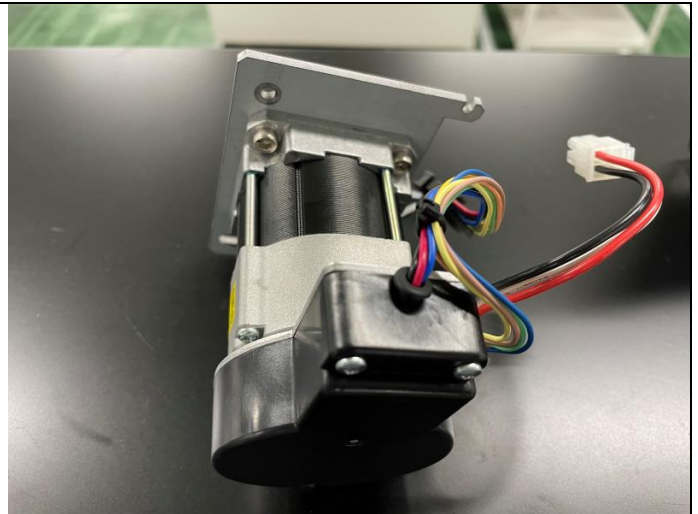
Step 6 / 26

Remove the screws and remove the motor from the flange.



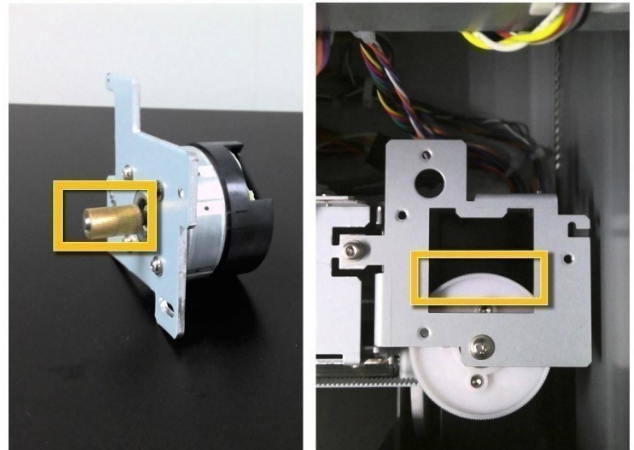
Step 7 / 26

Replace the motor with a new one.
Attach the motor and flange carefully in
the correct orientation.



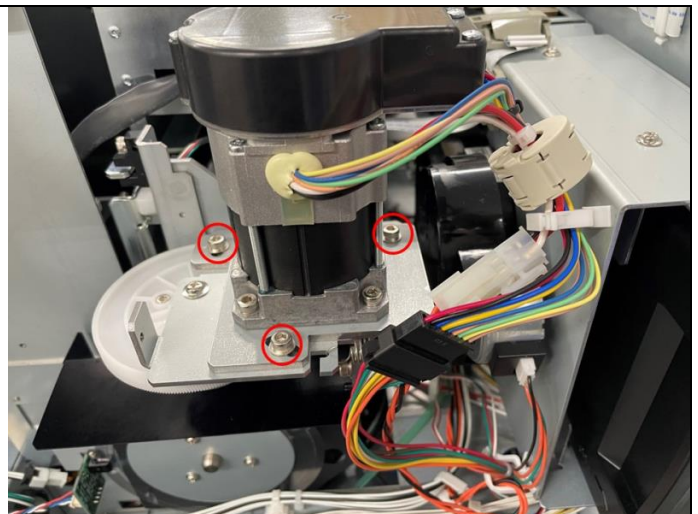
Step 8 / 26

Apply an appropriate amount of grease
to the drive gear and motor.



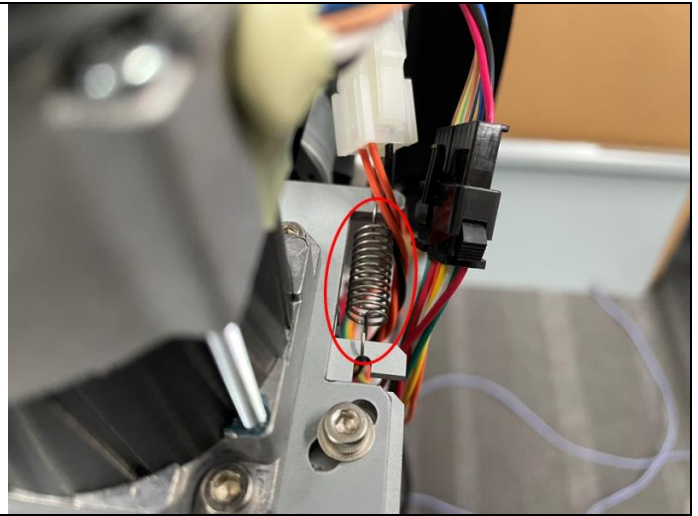
Step 9 / 26

Temporarily tighten the flange.



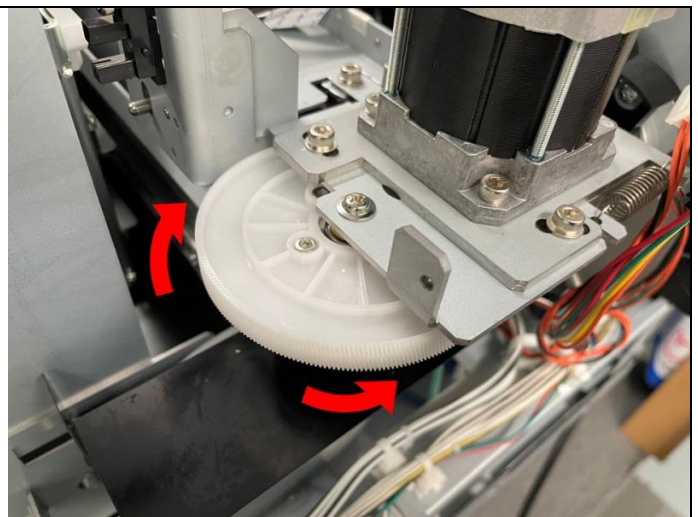
Step 10 / 26

Attach the spring.



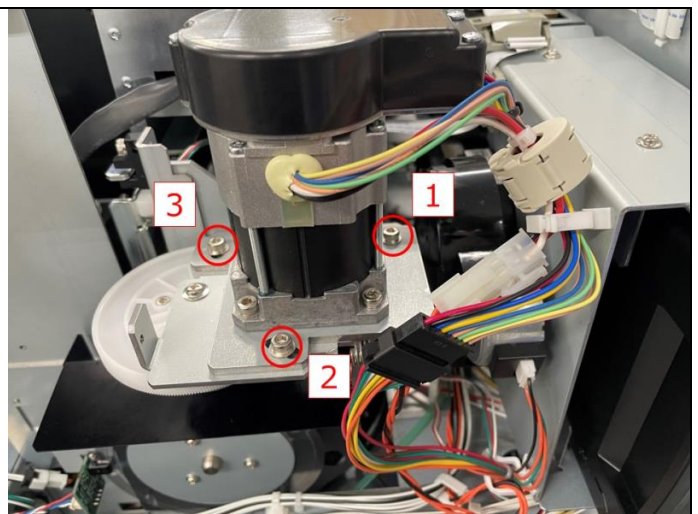
Step 11 / 26

Move the carriage and check that the motor and gear are engaged and turning together.



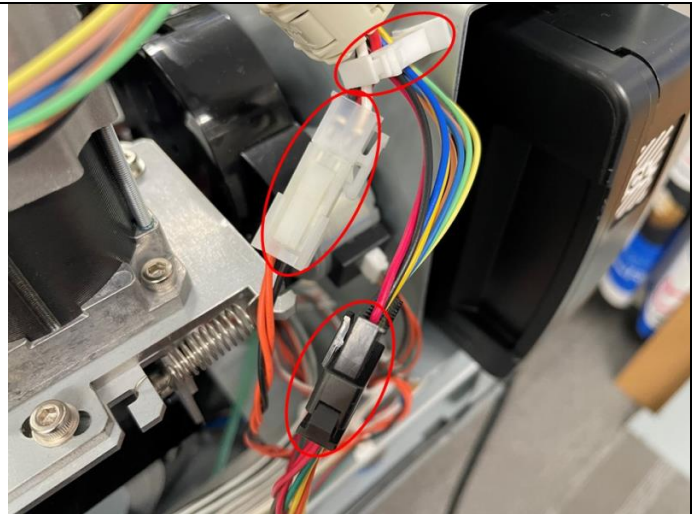
Step 12 / 26

Tighten the screws on the flange in the order shown.



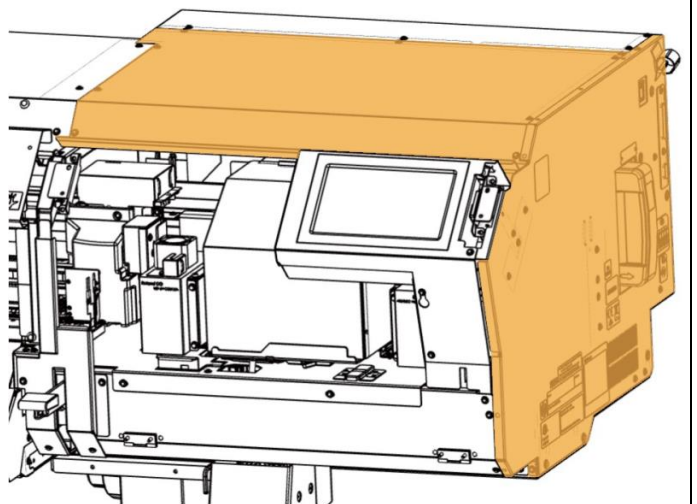
Step 13 / 26

Plug the connectors and bundle the cables with the clamp.



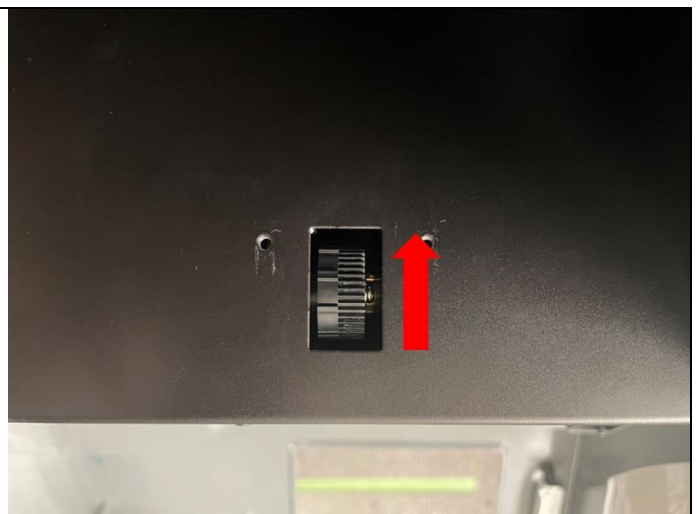
Step 14 / 26

Attach the covers.



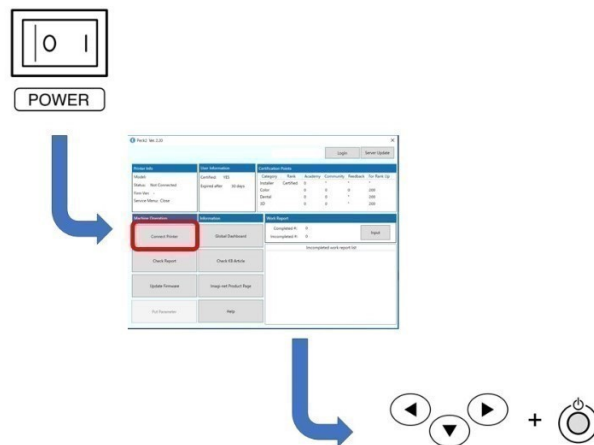
Step 15 / 26

Rotate the cap UP/DOWN gear to the rear about 5 times to disengage the capping and then move the carriage onto the bed. *Note that the carriage cannot be unlocked after the service mode has been activated and the servo lock cannot be checked.



Step 16 / 26

Turn on the power and enter the service mode with Peck2.



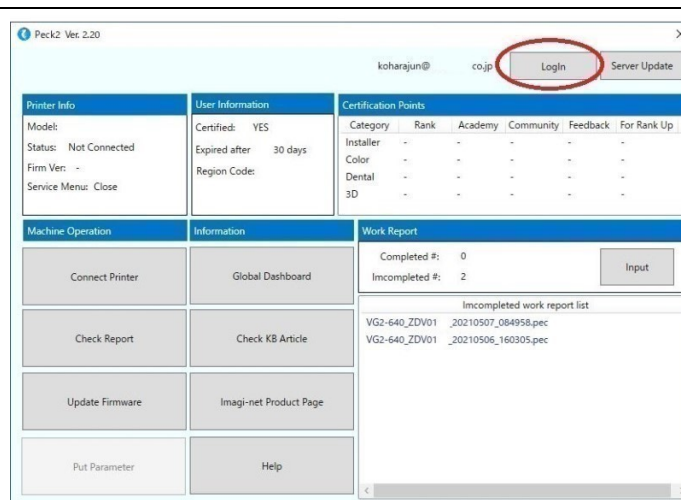
Step 17 / 26

Detail1: Start Peck2.



Step 18 / 26

Detail2: Click the [Login] button.



Step 19 / 26

Detail3: Login with your Imagi-net ID.

Sign in to your account

Microsoft

Select an account

 Jun Koh
koharajun@
Window

利用規約

プライバシーとCookie

...

Step 20 / 26

Detail4: Click the [Connect Printer] button.

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

Printer Info

Model:

Status: Not Connected

Firm Ver: -

Service Menu: Close

User Information

Certified: YES

Expired after: 30 days

Region Code:

Certification Points

Category	Rank	Academy	Community	Feedback	For Rank Up
Installer	-	-	-	-	-
Color	-	-	-	-	-
Dental	-	-	-	-	-
3D	-	-	-	-	-

Machine Operation

Connect Printer

Check Report

Update Firmware

Put Parameter

Information

Global Dashboard

Check KB Article

Imagi-net Product Page

Help

Work Report

Completed #: 0

Imcompleted #: 2

Input

Imcompleted work report list

VG2-640_ZDV01_20210507_084958.pec

VG2-640_ZDV01_20210506_160305.pec

Step 21 / 26

Detail5: Enter the IP address of the printer you would like to connect to.

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

Printer Info

Model:

ConnectPrinter

Select: VG2-640(11 .129.52)

Input IP Address:

Connect

Close

User Information

Certified: YES

Expired after: 30 days

Certification Points

Category	Rank	Academy	Community	Feedback	For Rank Up
Installer	Certified	0	*	*	*
Color	0	0	0	200	
Dental	0	0	*	200	
3D	0	0	*	200	

Machine Operation

Global Dashboard

Check Report

Check KB Article

Update Firmware

Imagi-net Product Page

Put Parameter

Help

Work Report

Completed #: 0

Imcompleted #: 2

Input

Imcompleted work report list

VG2-640_ZDV01_20210507_084958.pec

VG2-640_ZDV01_20210506_160305.pec

Step 22 / 26

Detail6: If you are able to connect to a printer, printer information will be displayed in [Printer Info].

Peck2 Ver. 2.20

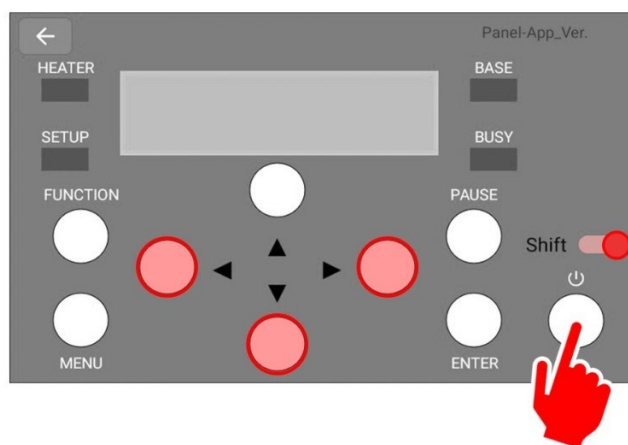
koharjun@ .co.jp Login Server Update

Printer Info		User Information		Certification Points					
Model:	VG2-640_ZDV01	Certified:	YES	Category	Rank	Academy	Community	Feedback	For Rank Up
Status:	UnSetup	Expired after:	30 days	Installer	Certified	0	*	*	*
Firm Ver:	2.00			Color	0	0	0	200	
Service Menu:	Open			Dental	0	0	*	200	
				3D	0	0	*	200	

Machine-Operation		Information		Work Report	
Connect Printer	Global Dashboard	Completed #:	0		
Check Report	Check KB Article	Incompleted #:	2	Input	
Update Firmware	Imagi-net Product Page	Incompleted work report list			
Put Parameter	Help	VG2-640_ZDV01 _20210507_084958.pec			
		VG2-640_ZDV01 _20210506_160305.pec			

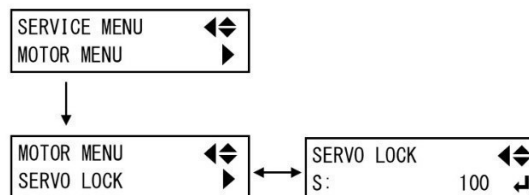
Step 23 / 26

Detail7: Press [Shift] > [□]+[□]+[□]+[Sub Power] to enter the service mode. By turning on the [Shift] button, multiple buttons can be pressed.



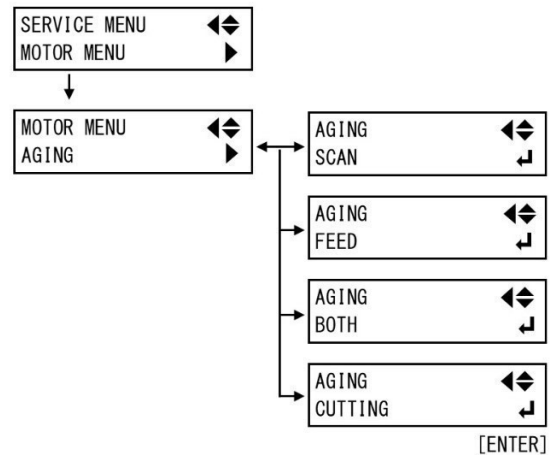
Step 24 / 26

Perform servo lock check. Confirm that the values change as the carriage moves and that pressing [ENTER] locks the carriage movement.



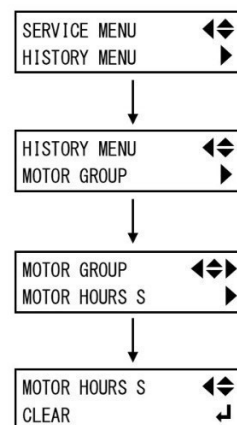
Step 25 / 26

Perform aging check [AGING] > [SCAN].



Step 26 / 26

Clear history [MOTOR GROUP] > [MOTOR HOURS S].



LG-645430 Grit Encoder Replacement

LG-645430 Grit Encoder Replacement

Information

Step 1 / 6

□Grit encoder replacement [20 minutes]□Servo lock check [1 min]□Grit encoder check [1 min]□Aging check [5 min]



Step 2 / 6

Necessary Tools

一般ツール/General Tool

プラスドライバー No.1 No.1 Phillips screwdriver	
プラスドライバー No.2 No.2 Phillips screwdriver	
プラスドライバー No.2 (80mm 以下) No.2 Phillips screwdriver (80mm or less)	

Step 3 / 6

Special Tools

特殊治具/Special Tools

None	
------	---

Step 4 / 6

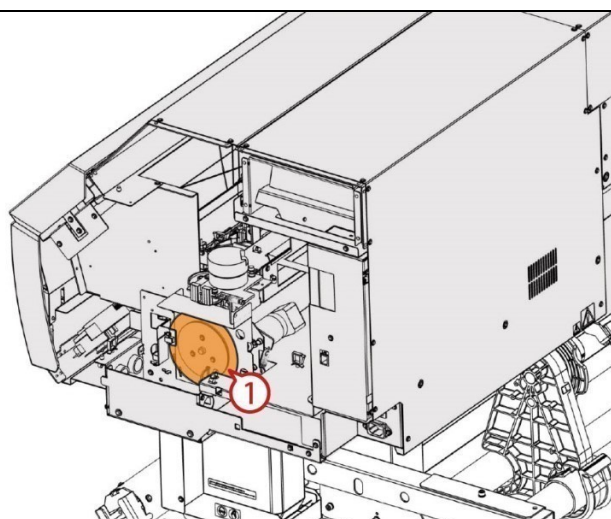
Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
グリットエンコーダー交換 Grit encoder replacement	20 min.
サーボロック確認 Servo lock check	1 min.
グリットエンコーダーチェック Grit encoder check	1 min.
エージング確認 Aging check	5 min.

Step 5 / 6

1. grid encoder



Step 6 / 6

To prevent damage caused by static electricity, release static electricity from your body before touching electronic components. Touching an unpainted metal surface will release static electricity.



LG-645430 Grit Encoder Replacement

LG-645430 Grit Encoder Replacement Procedure

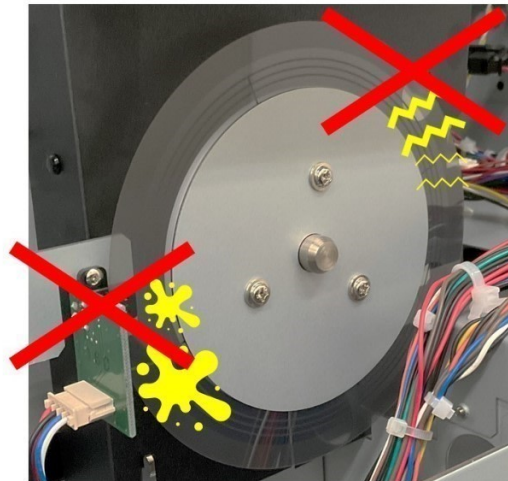
Step 1 / 34

Turn off the power and unplug the power cable.



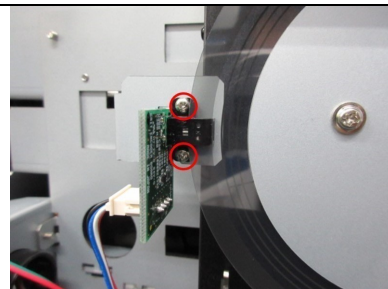
Step 2 / 34

Be careful not to scratch or stain the grit encoder.



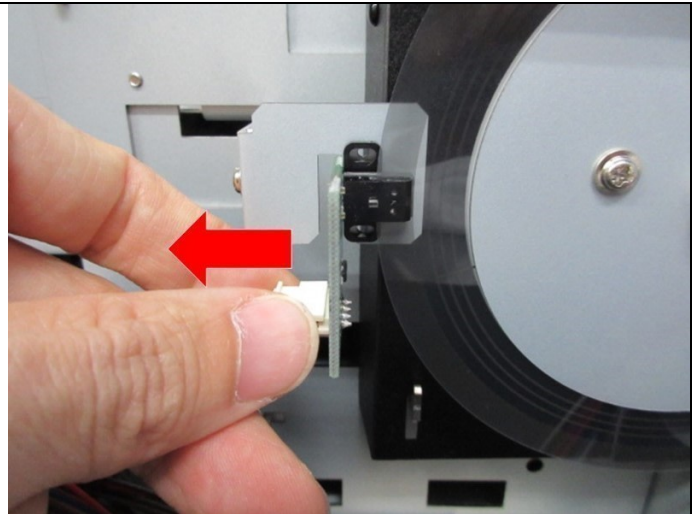
Step 3 / 34

Remove the screws and remove the encoder board so as not to scratch the encoder.



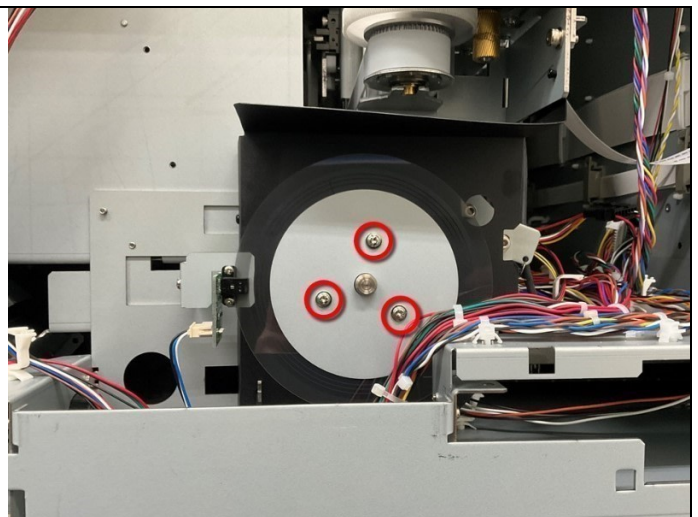
Step 4 / 34

Detail1: Remove the encoder board in the direction of the arrow. Make sure not to scratch it.



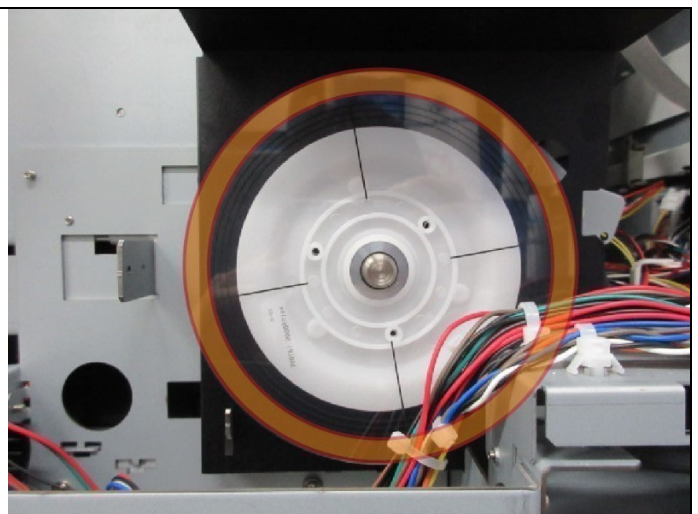
Step 5 / 34

Remove the grit encoder stopper and the grit encoder.



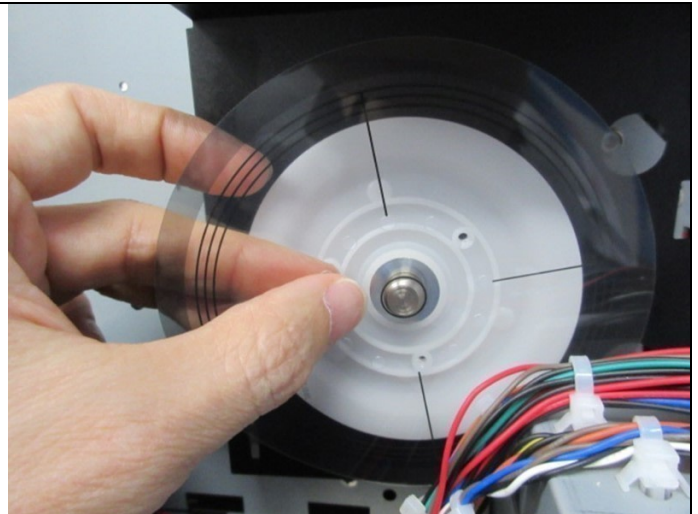
Step 6 / 34

Be careful not to touch the area to be read by the encoder board.



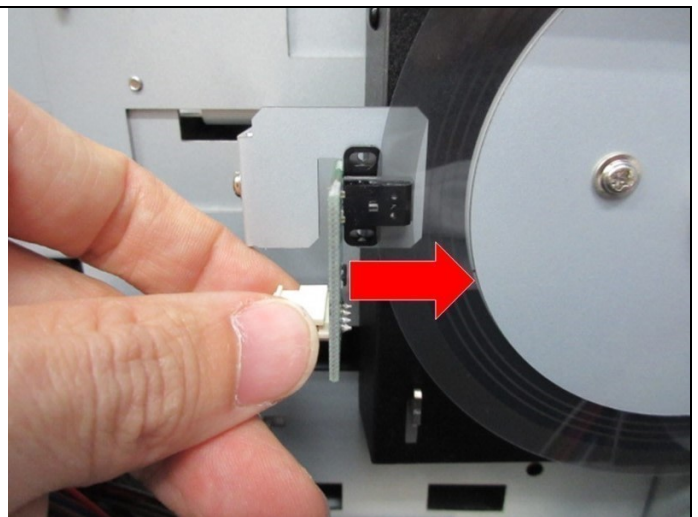
Step 7 / 34

Attach the new grit encoder and grit encoder stopper.



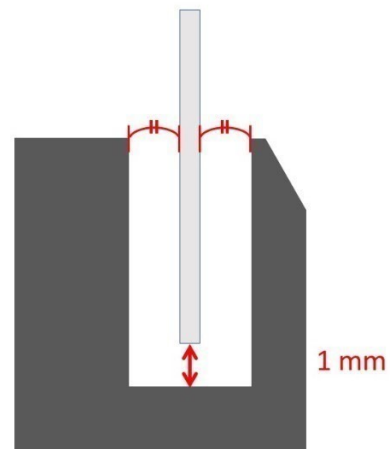
Step 8 / 34

Attach the grit encoder board to avoid scratching the encoder.



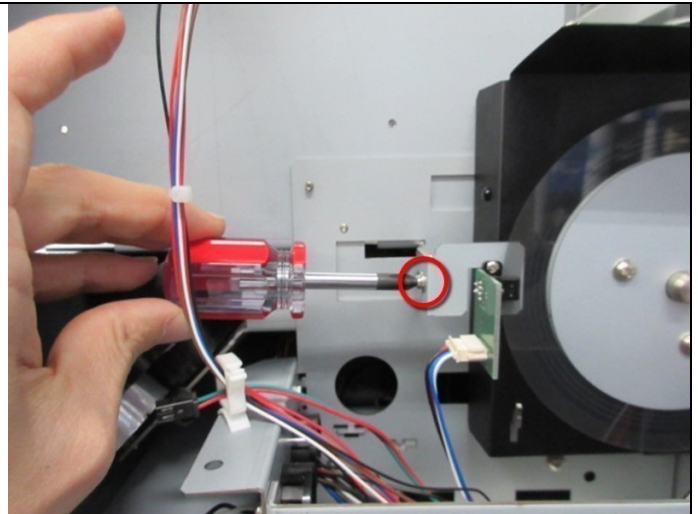
Step 9 / 34

Make sure that the grit encoder is in the middle of the sensor, with about 1 mm between the encoder and the sensor in the front-back direction.



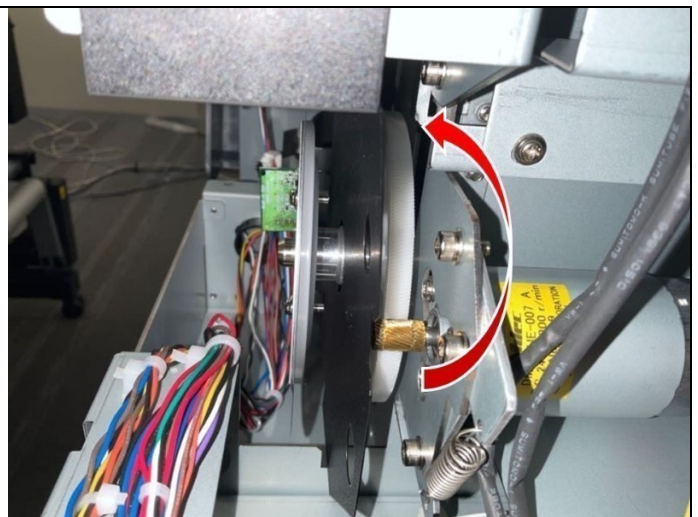
Step 10 / 34

If adjustment is required, loosen the screw of the stay and adjust the position.



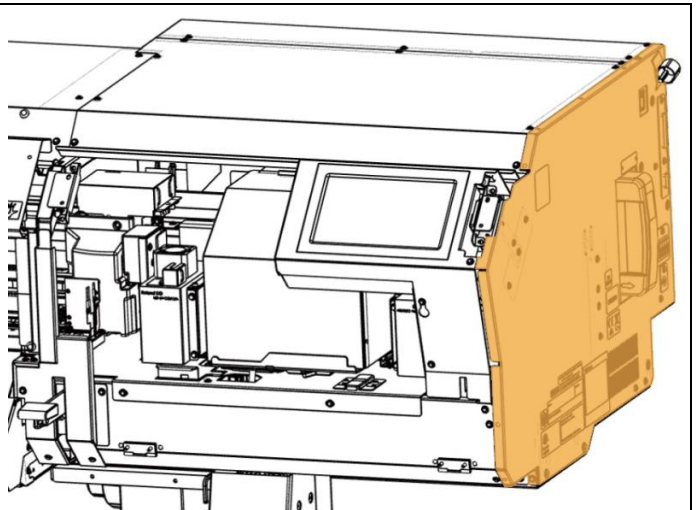
Step 11 / 34

Detail1: Turn the white gear by hand and check for any unusual noise or interference with the encoder.



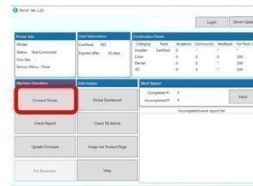
Step 12 / 34

Attach the cover and turn on the main power switch.



Step 13 / 34

Connect Peck2 with the machine to
enter the service mode.



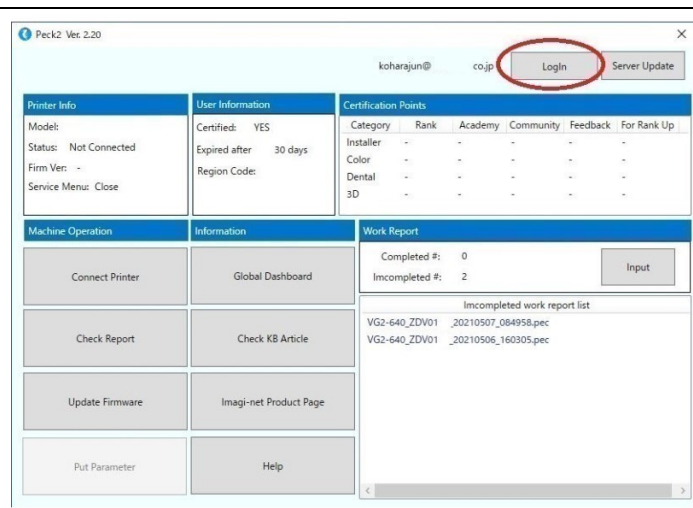
Step 14 / 34

Detail1: Start Peck2.



Step 15 / 34

Detail2: Click the [Login] button



Step 16 / 34

Detail3: Login with your Imagi-net ID.

Sign in to your account

Microsoft

Select an account

 Jun Koh
koharajun@
Window

利用規約

プライバシーとCookie

...

Step 17 / 34

Detail4: Click the [Connect Printer] button.

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

Printer Info

Model:

Status: Not Connected

Firm Ver: -

Service Menu: Close

User Information

Certified: YES

Expired after: 30 days

Region Code:

Certification Points

Category	Rank	Academy	Community	Feedback	For Rank Up
Installer	-	-	-	-	-
Color	-	-	-	-	-
Dental	-	-	-	-	-
3D	-	-	-	-	-

Machine Operation

Connect Printer

Check Report

Update Firmware

Put Parameter

Information

Global Dashboard

Check KB Article

Imagi-net Product Page

Help

Work Report

Completed #: 0

Imcompleted #: 2

Input

Imcompleted work report list

VG2-640_ZDV01_20210507_084958.pec

VG2-640_ZDV01_20210506_160305.pec

Step 18 / 34

Detail5: Enter the IP address of the device you would like to connect to.

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

Printer Info

Model:

ConnectPrinter

Select: VG2-640(11 .129.52)

Input IP Address:

Connect

Close

User Information

Certified: YES

Expired after: 30 days

Certification Points

Category	Rank	Academy	Community	Feedback	For Rank Up
Installer	Certified	0	*	*	*
Color	0	0	0	200	
Dental	0	0	*	200	
3D	0	0	*	200	

Machine Operation

Global Dashboard

Check Report

Check KB Article

Update Firmware

Imagi-net Product Page

Put Parameter

Help

Work Report

Completed #: 0

Imcompleted #: 2

Input

Imcompleted work report list

VG2-640_ZDV01_20210507_084958.pec

VG2-640_ZDV01_20210506_160305.pec

Step 19 / 34

Detail6: When the printer is connected, the printer information will be displayed in [Printer Info].

Peck2 Ver. 2.20

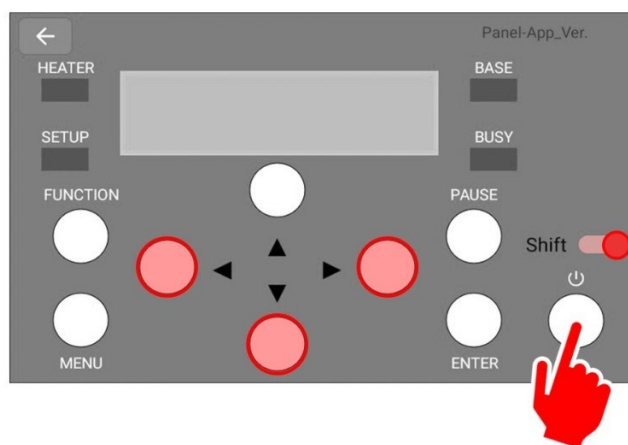
koharajun@ .co.jp Login Server Update

Printer Info		User Information		Certification Points					
Model:	VG2-640_ZDV01	Certified:	YES	Category	Rank	Academy	Community	Feedback	For Rank Up
Status:	UnSetup	Expired after:	30 days	Installer	Certified	0	*	*	*
Firm Ver:	2.00			Color		0	0	0	200
Service Menu:	Open			Dental		0	0	*	200
				3D		0	0	*	200

Machine-Operation		Information		Work Report	
Connect Printer	Global Dashboard	Completed #:	0		
Check Report	Check KB Article	Incompleted #:	2	Input	
Update Firmware	Imagi-net Product Page	Incompleted work report list			
Put Parameter	Help	VG2-640_ZDV01 _20210507_084958.pec			
		VG2-640_ZDV01 _20210506_160305.pec			

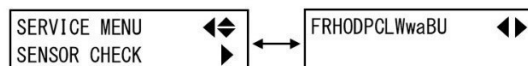
Step 20 / 34

Detail7: Press [Shift] > [□]+[□]+[□]+[Sub Power] to enter the service mode. By turning on the [Shift] button, multiple buttons can be pressed at the sama time.



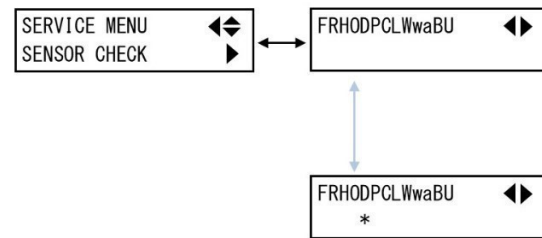
Step 21 / 34

Select [SERVICE MENU] > [SENSOR CHECK] and check if the cover sensor is responding properly.



Step 22 / 34

Detail1: Check if there is an asterisk (*) under the monitor display "D", and if so, perform adjustment.



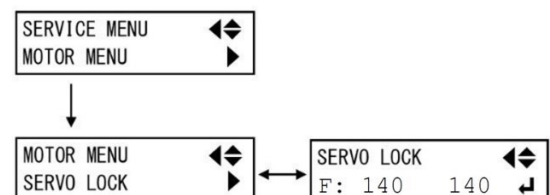
Step 23 / 34

Detail2: Loosen the screw and adjust the cover sensor back and forth.



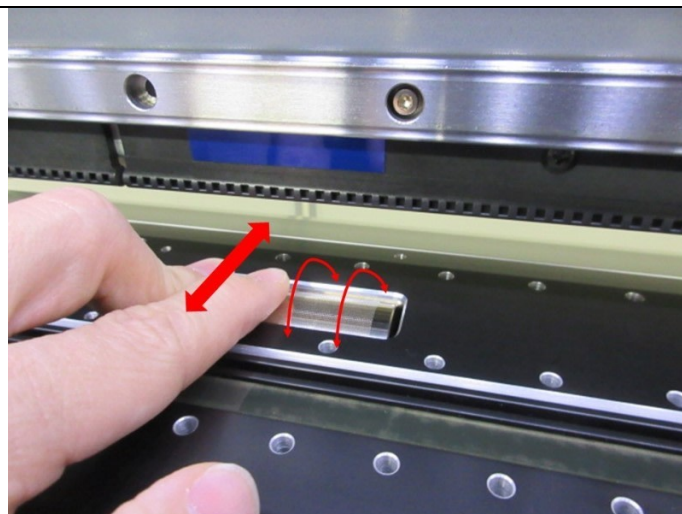
Step 24 / 34

From [SERVICE MENU] > [MOTOR MENU] > [SERVO LOCK], select [F].



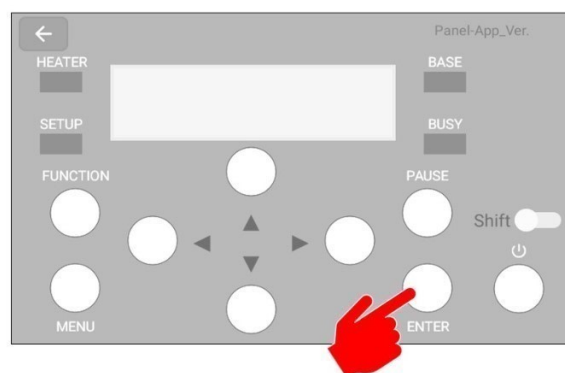
Step 25 / 34

Rotate the grit roller by hand and check that the values displayed change with the movement.



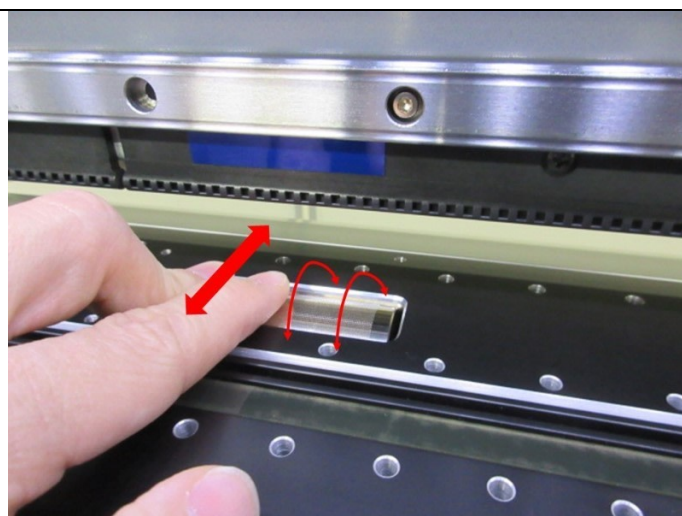
Step 26 / 34

Press the [ENTER] key to energize the motor.



Step 27 / 34

Make sure that it is difficult to move the grit roller by hand, and that the displayed values return to their original values.



Step 28 / 34

Perform a grit encoder check.



次の手順

グリットエンコーダーチェック

Next Step

Grit encoder check

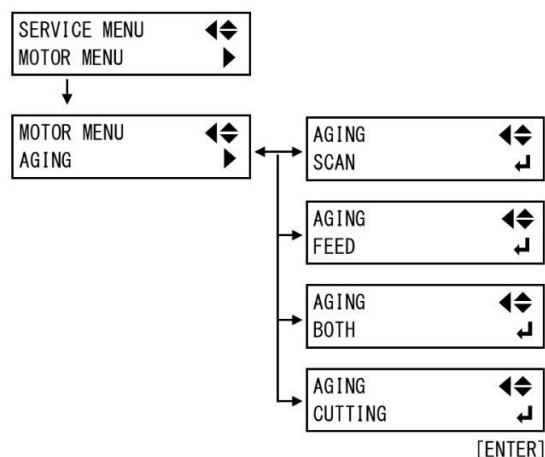
Step 29 / 34

Perform aging. Remove the media when performing aging.



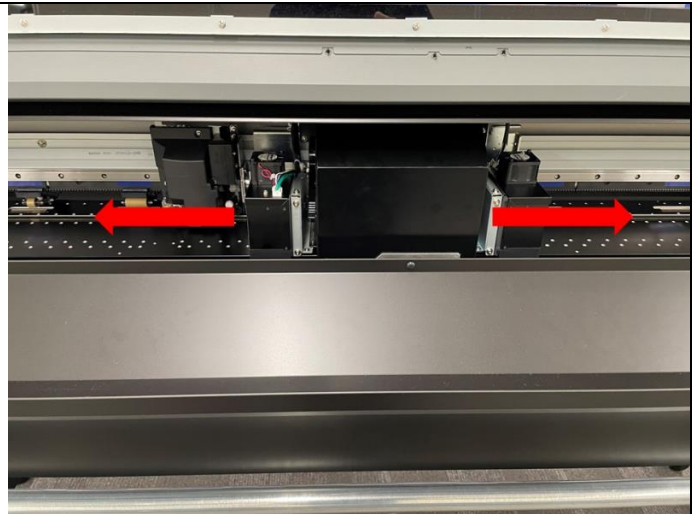
Step 30 / 34

From [SERVICE MENU] > [MOTOR MENU] > [AGING], select the item you want to check and press the [ENTER] key. Press the [ENTER] key to finish aging.



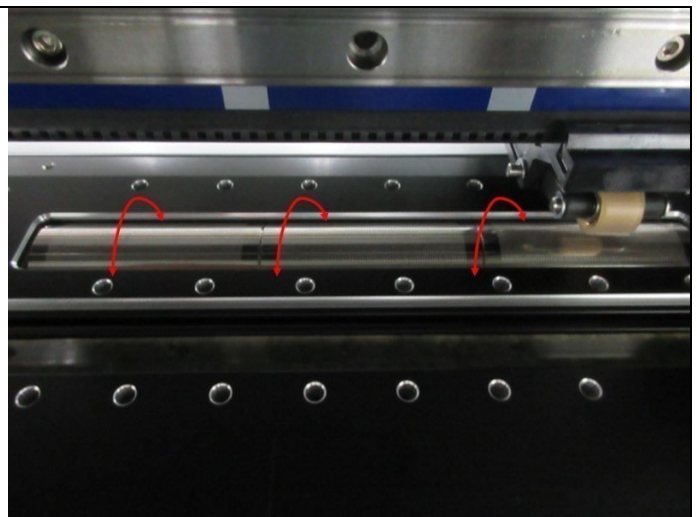
Step 31 / 34

Detail1: [SCAN] Scan motor operates with the cut carriage and print head carriage connected.



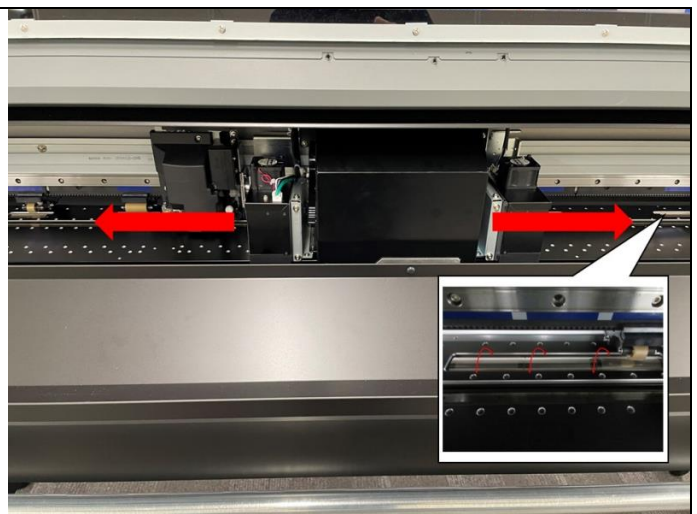
Step 32 / 34

Detail2: [FEED] Feed motor operates and the grit roller operates.



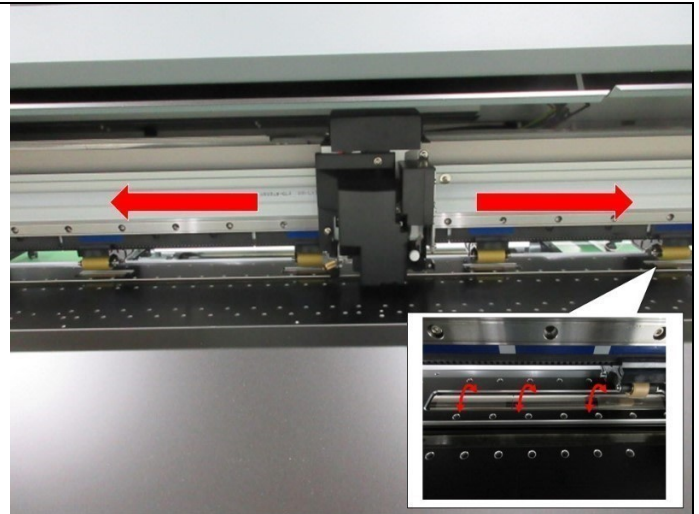
Step 33 / 34

Detail3: [BOTH] The scan motor and feed motor operate simultaneously with the cut carriage and print head carriage connected.



Step 34 / 34

Detail4: [CUTTING] Scan motor and feed motor operate at the same time with the cut carriage alone alone.



LG-645430 Feed Motor Replacement

LG-645430 Feed Motor Replacement Information

Step 1 / 5

Necessary tools

一般ツール/General Tool

ブラストドライバー No.2 No.2 Phillips screwdriver	
六角レンチ 3.0 mm 3.0 mm hexagonal wrench	

Step 2 / 5

Special tools

特殊治具/Special Tools

6000004129 GREASE, FLOIL G-902 10ML_02	
---	---

Step 3 / 5

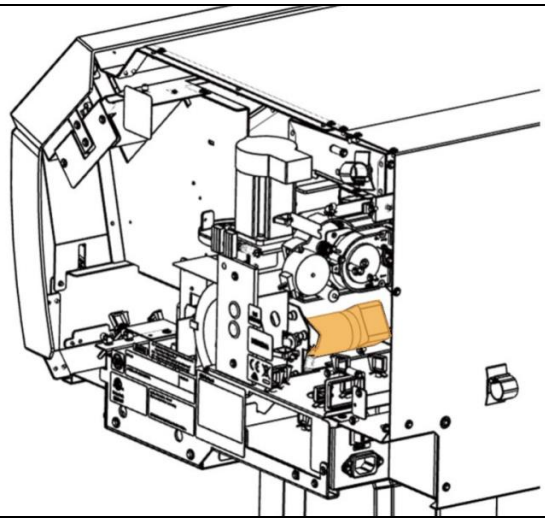
Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
フィードモーター交換 Feed motor replacement	30 min.
サーボロック確認 Servo lock check	1 min.
グリットエンコーダチェック Grit encoder check	1 min.
エージング確認 Aging check	5 min
モーター時間クリア Motor time clear	1 min.

Step 4 / 5

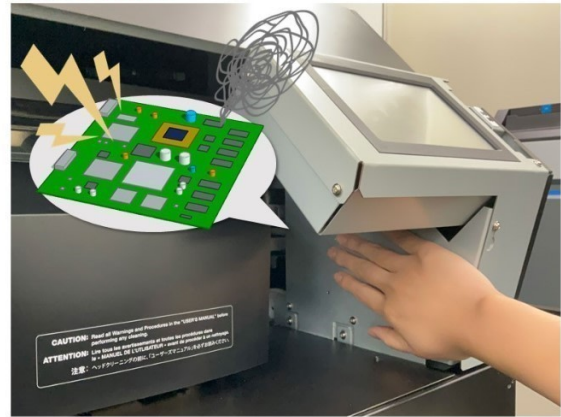
1.Feed motor



Step 5 / 5

To prevent static damage, discharge static electricity from your body before you touch any of the electronic parts. You can do so by touching an unpainted metal surface.

CAUTION !



LG-645430 Feed Motor Replacement

LG-645430 Feed Motor Replacement Procedure

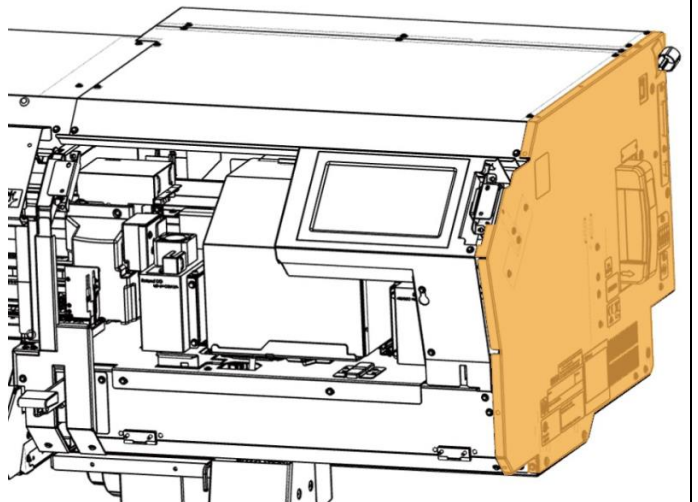
Step 1 / 39

Turn off the main power switch and unplug the power cord.



Step 2 / 39

Remove the cover on the right side.



Step 3 / 39

Detail1: Screws to be removed



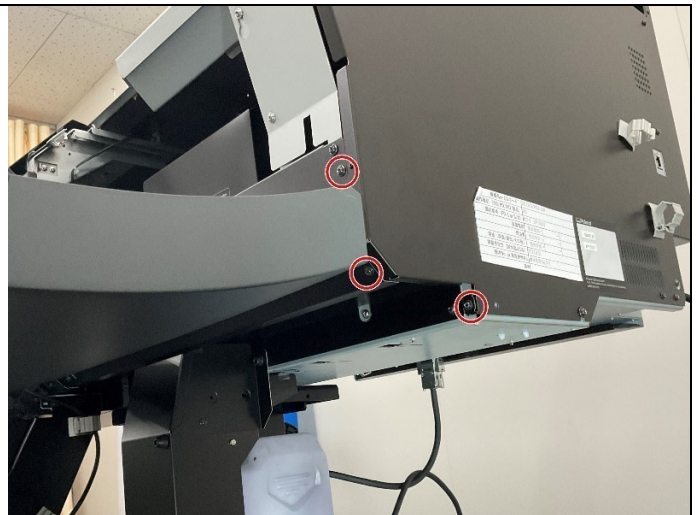
Step 4 / 39

Detail2: Screws to be removed



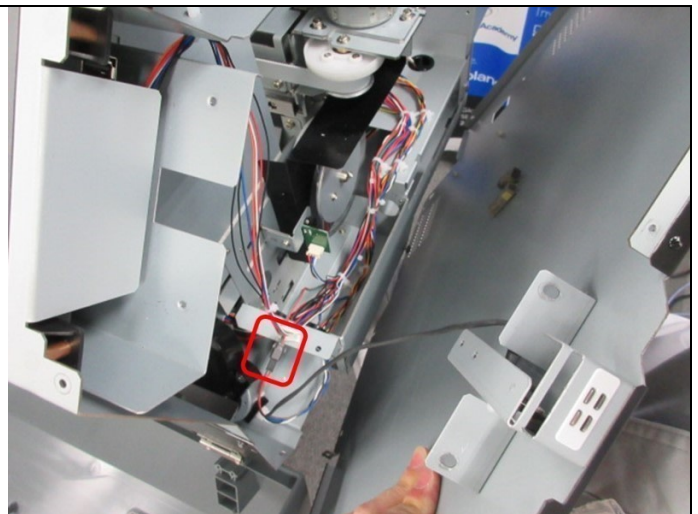
Step 5 / 39

Detail3: Screws to be removed



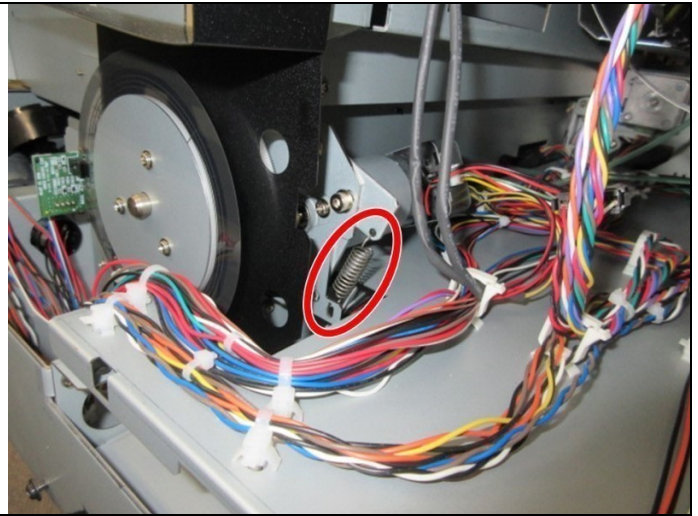
Step 6 / 39

Detail4: Remove the cover sensor.



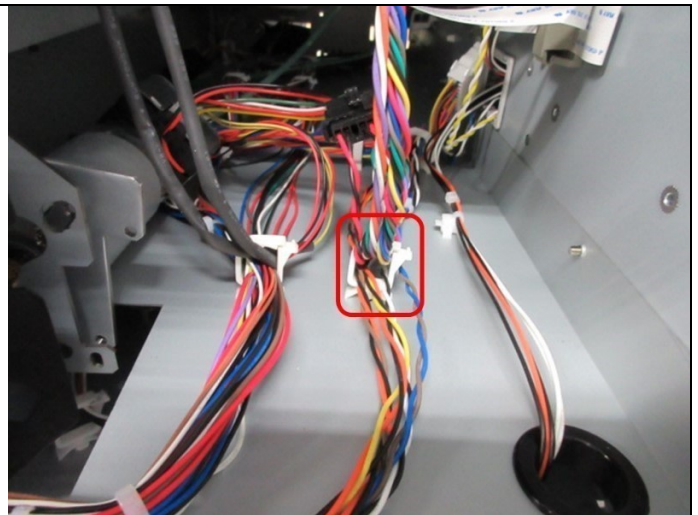
Step 7 / 39

Remove the spring.



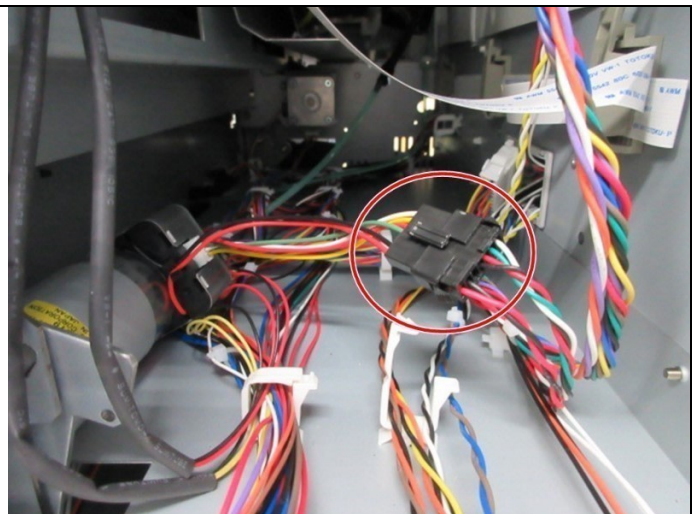
Step 8 / 39

Remove the cable saddle.



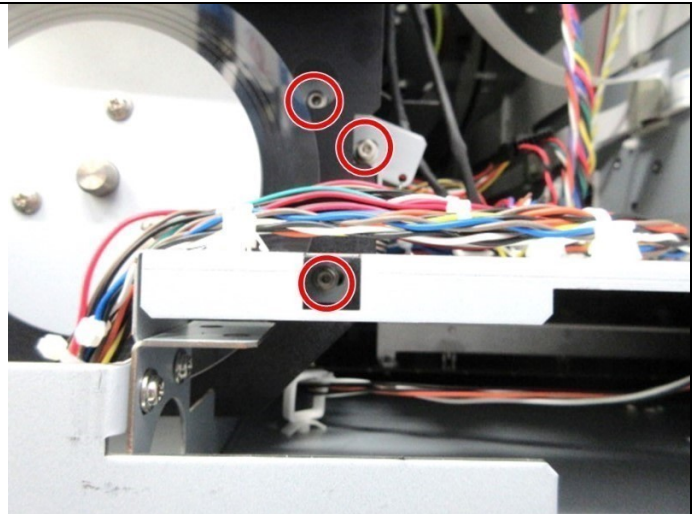
Step 9 / 39

Unplug the cable connector.



Step 10 / 39

Remove the screws and remove the motor together with the flange.



Step 11 / 39

Detail1: Motor with the flange



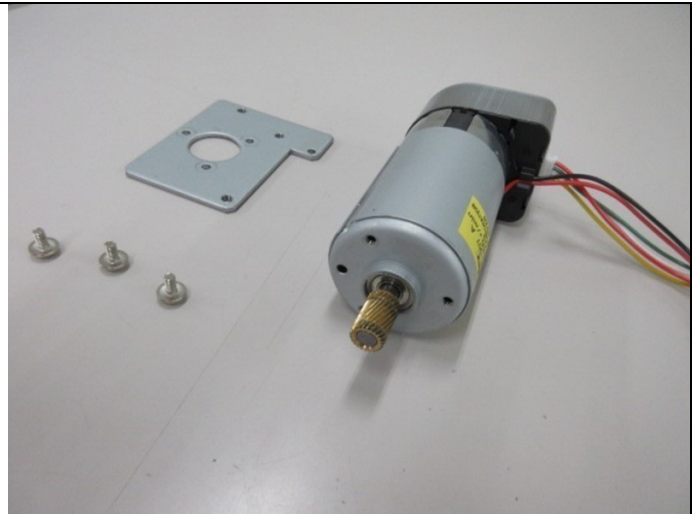
Step 12 / 39

By being careful of the orientation of the flange to the motor cable, attach the new motor to the flange.



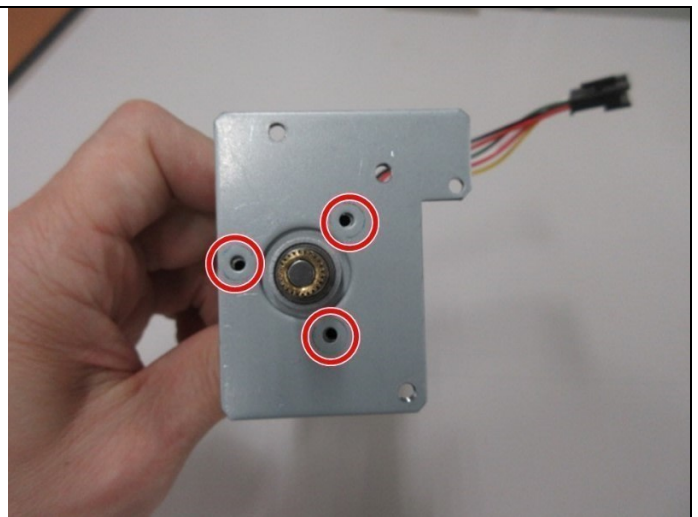
Step 13 / 39

Detail1: Remove the motor from the flange.



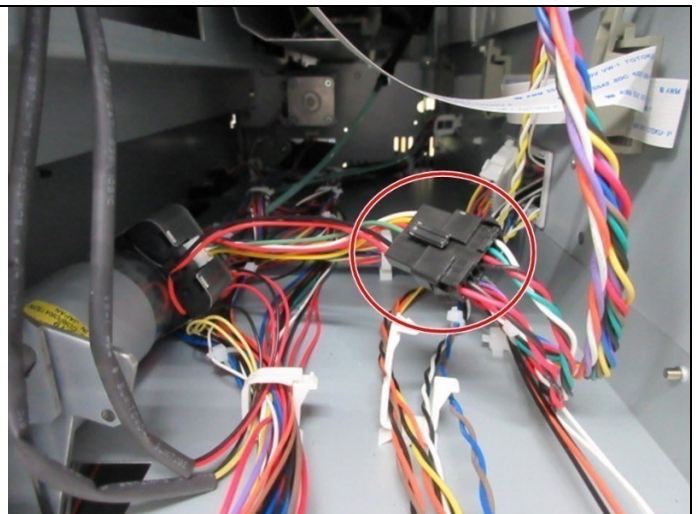
Step 14 / 39

Detail2: Check the mounting position of the flange and the new motor, and attach the screws.



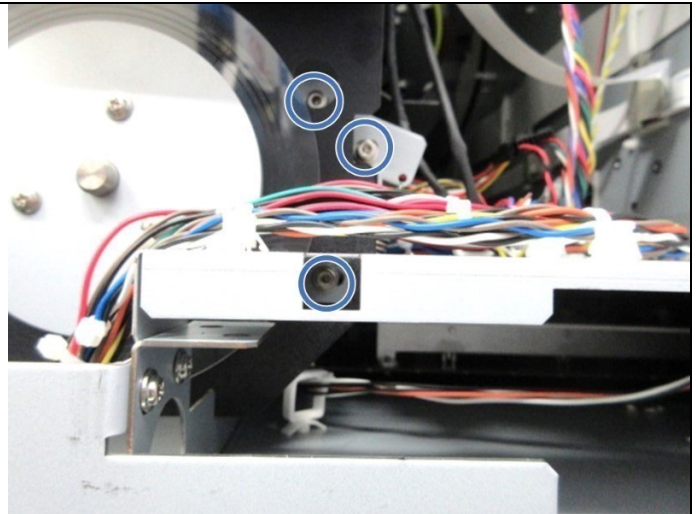
Step 15 / 39

Atatch the connector and put back the motor to its mounting position.



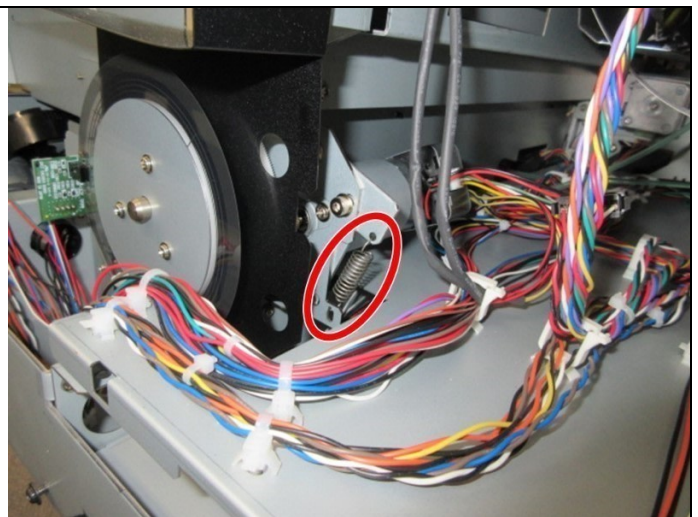
Step 16 / 39

Pay attention to the orientation of the flange, and temporarily tighten the screws (3 places).



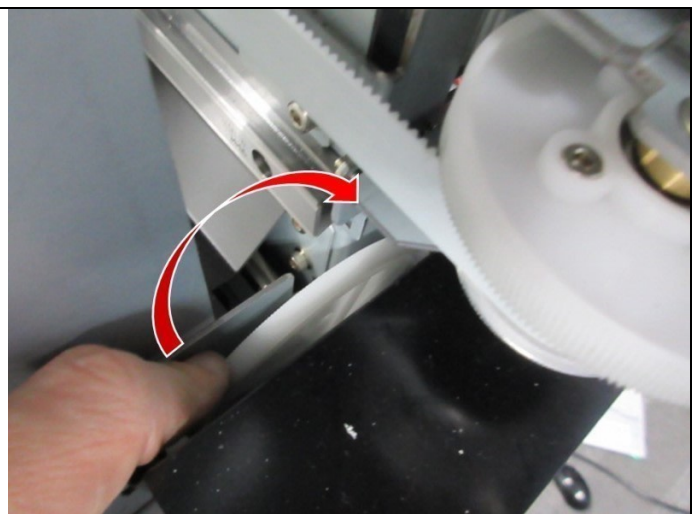
Step 17 / 39

Attach the spring.



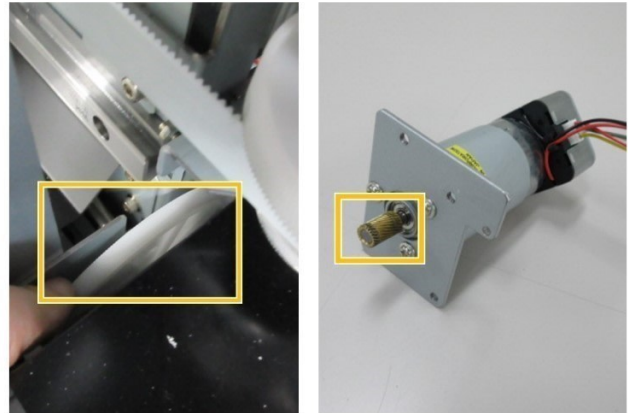
Step 18 / 39

Turn the drive gear more than three times by hand and check that the gears mesh together.



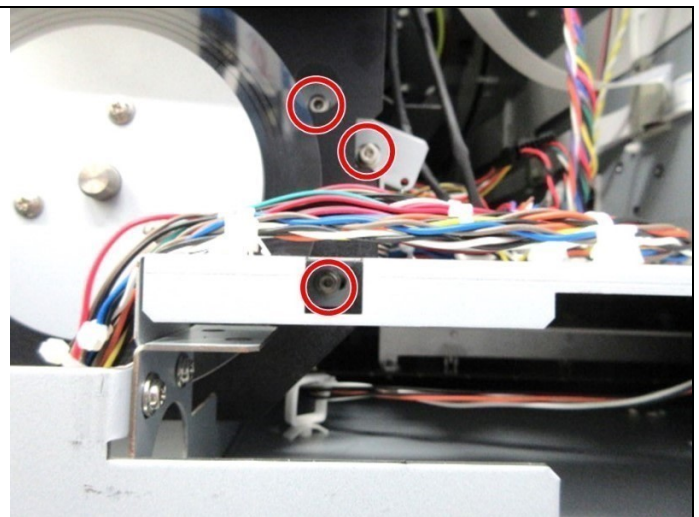
Step 19 / 39

Apply grease to the motor gear and the drive gear. • Grease :GREASE, FLOIL G-902 10ML_02 10ML_02 • Volume: proper amount



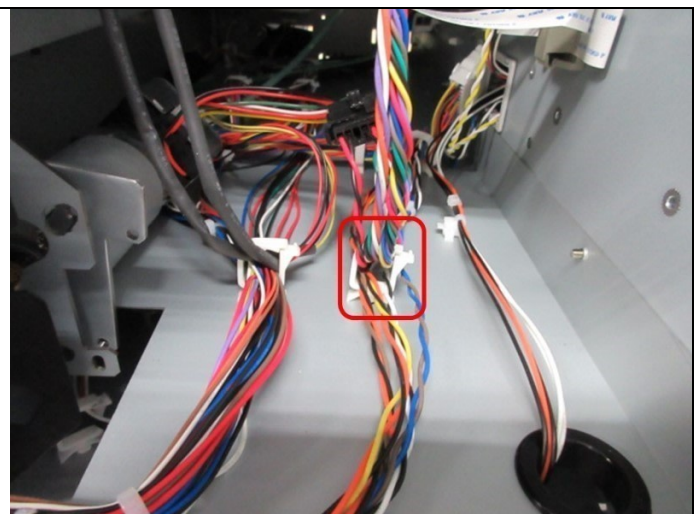
Step 20 / 39

Fully tighten three screws.



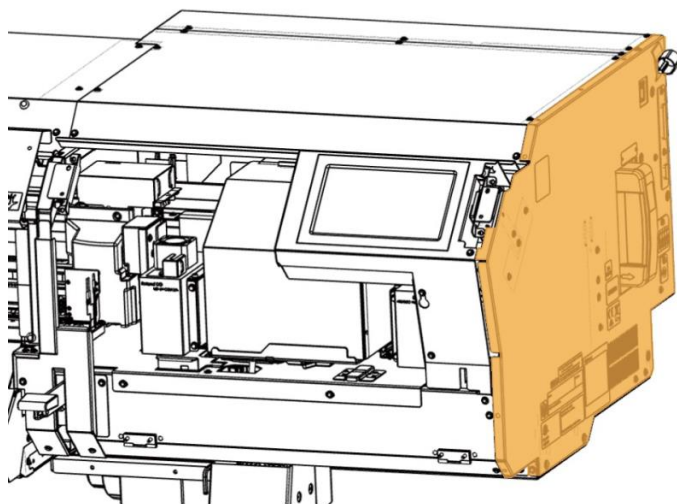
Step 21 / 39

Attach the motor cable to the cable saddle.



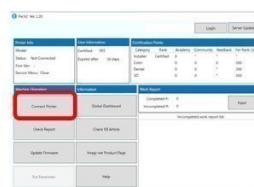
Step 22 / 39

Attach the cover and turn on the main power switch.



Step 23 / 39

Connect Peck2 with the machine to enter the service mode.



Step 24 / 39

Detail1: Start Peck2.



Step 25 / 39

Detail2: Click the [Login] button.

Peck2 Ver 2.20

koharajun@ co.jp Login Server Update

Printer Info	User Information	Certification Points
Model:	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: Not Connected	Expired after 30 days	Installer - - - - -
Firm Ver: -	Region Code:	Color - - - - -
Service Menu: Close		Dental - - - - -
		3D - - - - -

Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0 Incomplete #: 2 Input
Check Report	Check KB Article	Imcompleted work report list
Update Firmware	Imagi-net Product Page	VG2-640_ZDV01 _20210507_084958.pec VG2-640_ZDV01 _20210506_160305.pec
Put Parameter	Help	

Step 26 / 39

Detail3: Log in with Imagi-net ID.

Sign in to your account

Microsoft

Select an account

Jun Koh koharajun@ Windows

利用規約 プライバシーとCookie

Step 27 / 39

Detail4: Click the [Connect Printer] button.

Peck2 Ver 2.20

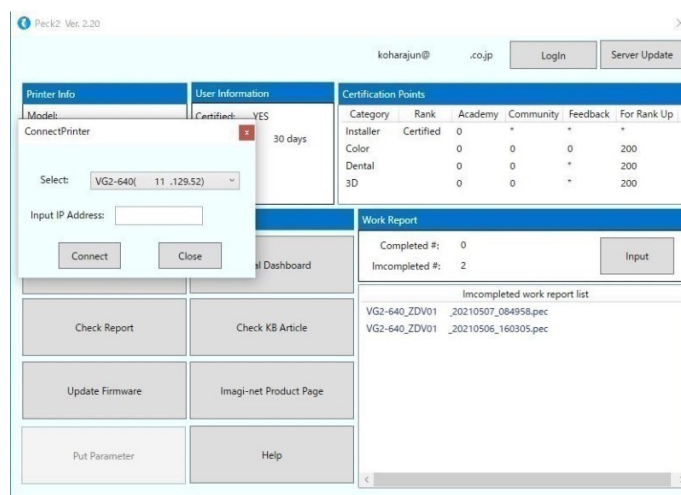
koharajun@ co.jp Login Server Update

Printer Info	User Information	Certification Points
Model:	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: Not Connected	Expired after 30 days	Installer - - - - -
Firm Ver: -	Region Code:	Color - - - - -
Service Menu: Close		Dental - - - - -
		3D - - - - -

Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0 Incomplete #: 2 Input
Check Report	Check KB Article	Imcompleted work report list
Update Firmware	Imagi-net Product Page	VG2-640_ZDV01 _20210507_084958.pec VG2-640_ZDV01 _20210506_160305.pec
Put Parameter	Help	

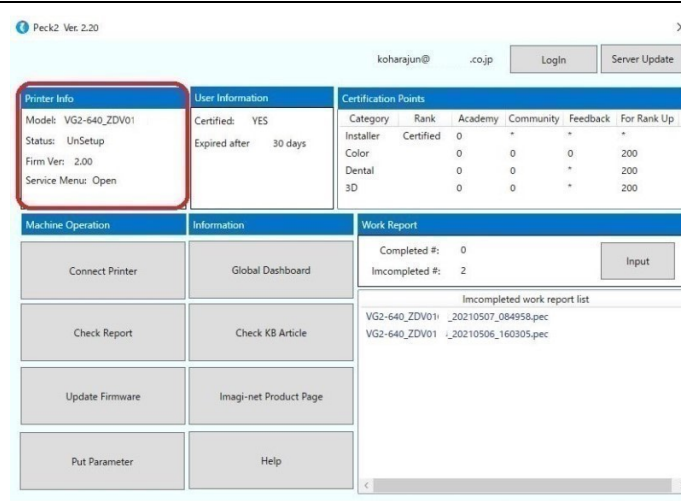
Step 28 / 39

Detail5: Enter IP address of the machine to be connected.



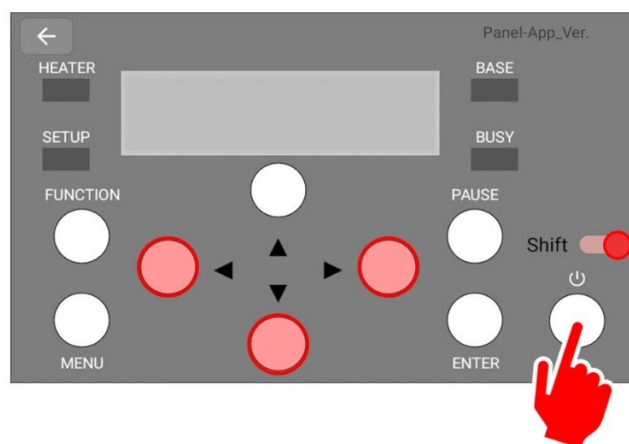
Step 29 / 39

Detail6: When the printer is connected, printer information is shown in [Printer Info].



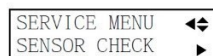
Step 30 / 39

Detail7: Press [Shift] > [] + [] + [] + [Sub power switch] on the panel of the machine to enter the service mode. By pressing [Shift], you can press multiple buttons at the same time.



Step 31 / 39

Select [SERVICE MENU] > [SENSOR CHECK].



Step 32 / 39

When the maintenance cover is closed, check the display below "D" on the monitor display, and make adjustments if "*" is displayed.

メンテナンスカバーセンサー確認

カバーが開いている時



カバーが閉じている時



Step 33 / 39

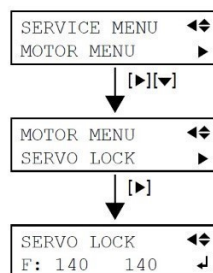
Detail1: Loosen the screw and adjust the cover sensor position so that the "*" appears below the "D" when the maintenance cover is closed.



Step 34 / 39

サーボロック確認

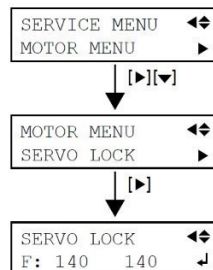
Perform servo lock check.



Step 35 / 39

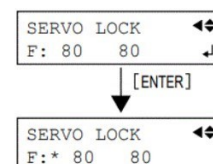
サーボロック確認

Detail1: From [SERVICE MENU] > [MOTOR MENU] > [SERVO LOCK], select [F]. Rotate the grit roller by hand and check that the values displayed change with the movement.



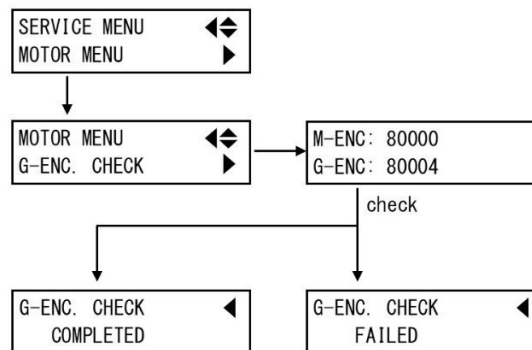
Step 36 / 39

Detail2: Press the [ENTER] key to energize the motor. Check that the grit roller does not move easily when rotated by hand, and that the displayed values return to their original values.



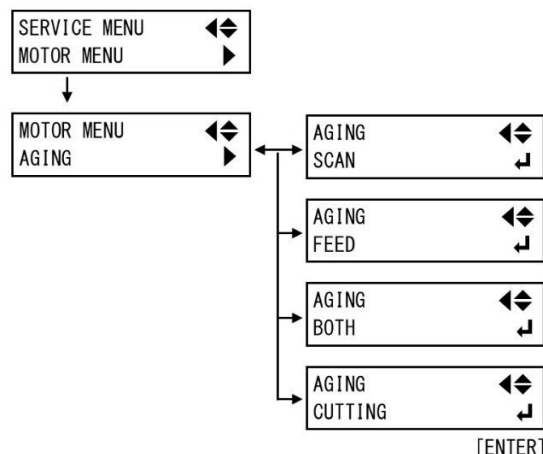
Step 37 / 39

Perform Grit Encoder Check. When [G-ENC. CHECK FAILED] is displayed, check the following. 1. The grit encoder is attached properly. 2. The feed motor is attached properly. 3. The grit encoder has no scratch or stain.



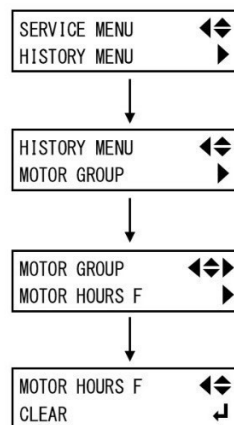
Step 38 / 39

Perform Aging Check [AGING] > [FEED]. Make sure the printer performs aging and then finish aging by pressing the [ENTER] key. Remove media before performing aging.



Step 39 / 39

Clear history [MOTOR GROUP] > [MOTOR HOURS F] > [CLEAR].



LG-645430 Linear Encoder Board Replacement

LG-645430 Linear Encoder Board Replacement Information

Step 1 / 2

Necessary Tools

一般ツール/General Tool

プラスドライバー No.1 No.1 Phillips screwdriver	
プラスドライバー No.2 No.2 Phillips screwdriver	

Step 2 / 2

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
リニアエンコーダーボード交換 Linear encoder board replacement	20 min.

LG-645430 Linear Encoder Board Replacement

LG-645430 Linear Encoder Board Replacement Procedure

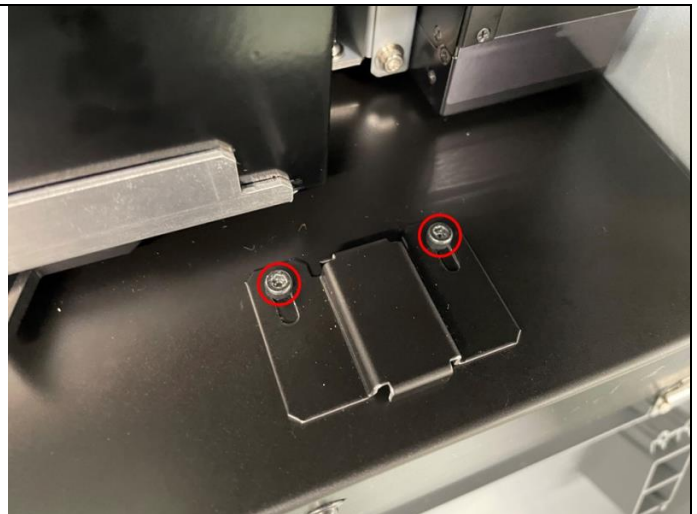
Step 1 / 15

Unlock the print head carriage.



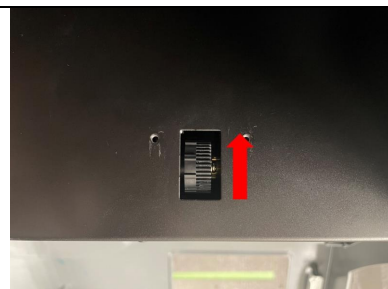
Step 2 / 15

Detail1: Remove the cap elevation gear cover.



Step 3 / 15

Detail2: Rotate the cap UP/DOWN gear to backwards about 5 turns to release the capping and then move the carriage

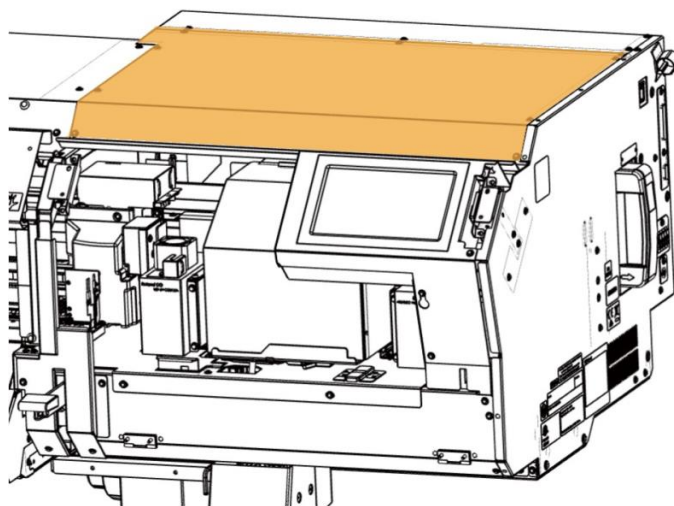


onto the bed.



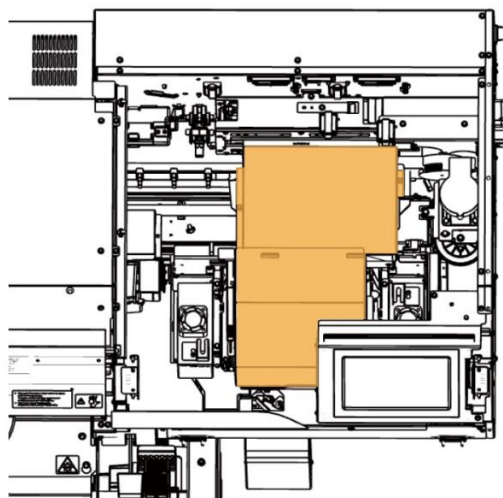
Step 4 / 15

Remove the cover.



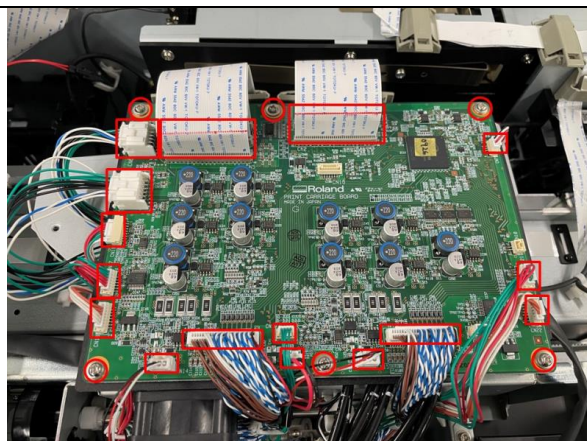
Step 5 / 15

Remove the cover.



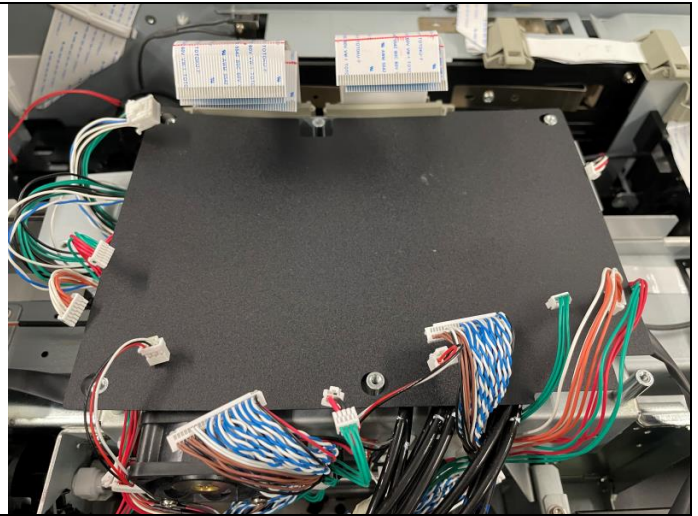
Step 6 / 15

Disconnect the connectors and ribbon cables connected to the print carriage board, and remove the print carriage board.



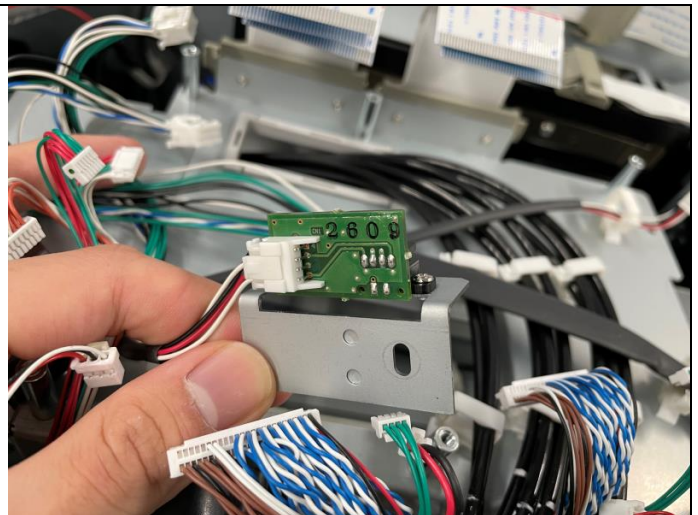
Step 7 / 15

Remove the black cover on the bottom of the print carriage board.



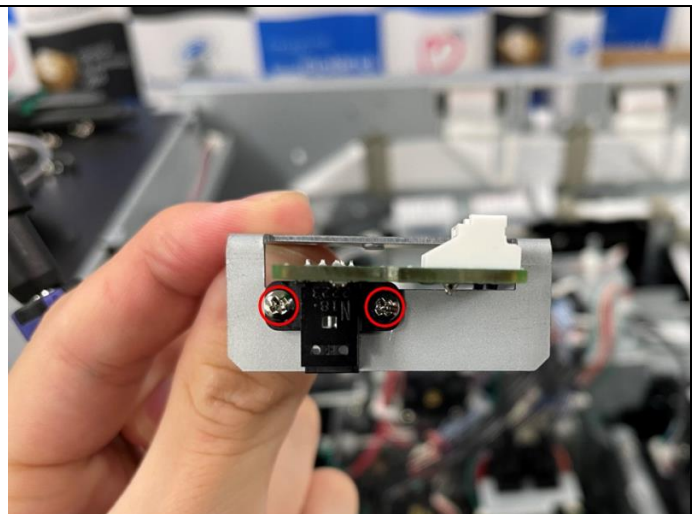
Step 8 / 15

Remove the linear encoder board and stay together.



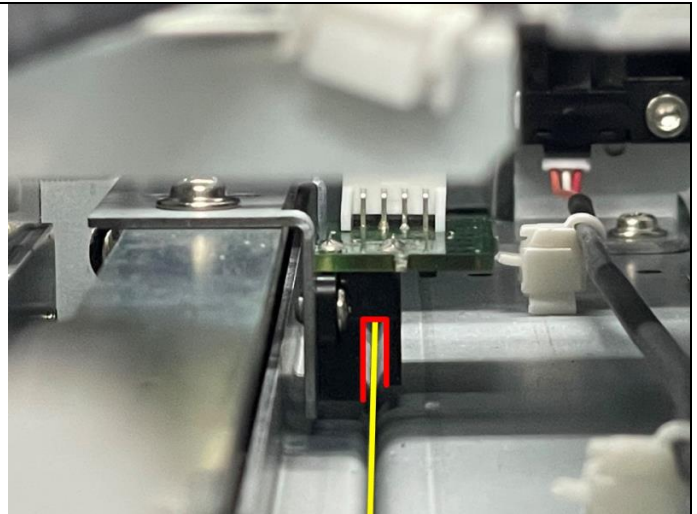
Step 9 / 15

Remove the linear encoder board from the stay and install a new linear encoder board. (Use Phillips screwdriver No. 1)



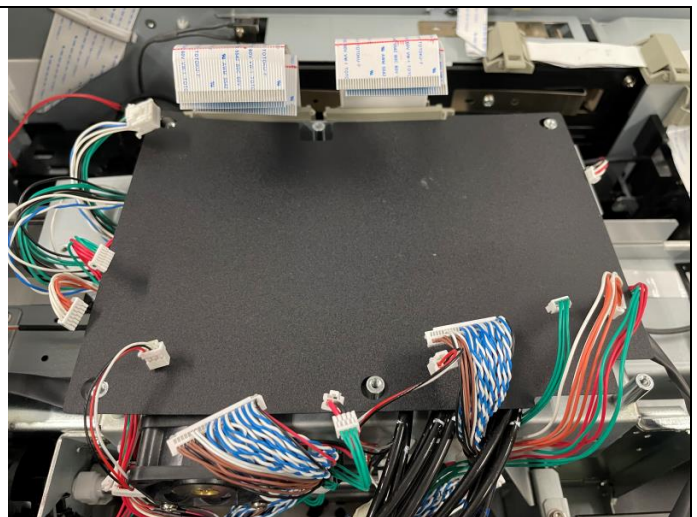
Step 10 / 15

Connect the connectors and install the linear encoder board together with the stay. Make sure that the encoder scale does not make contact with the encoder sensor. Also, check that the encoder scale is inbetween the slit of the encoder sensor.



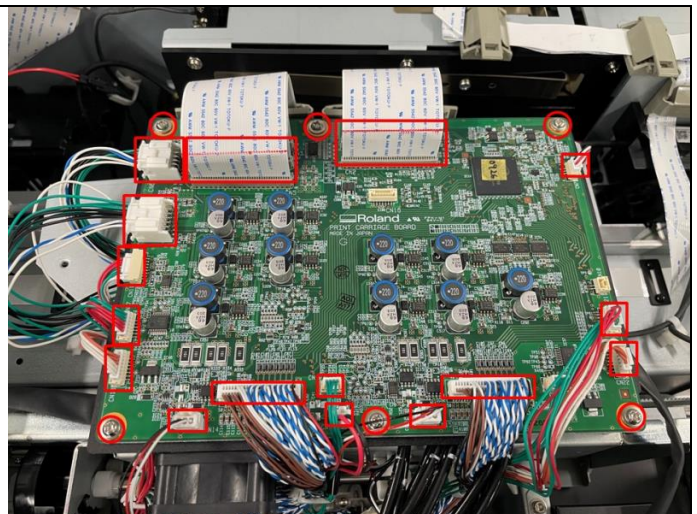
Step 11 / 15

Attach the black cover.



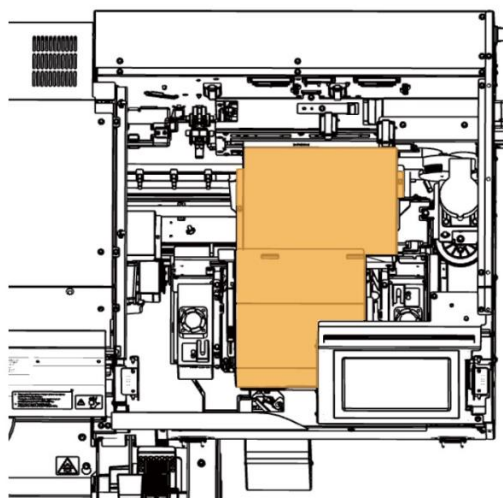
Step 12 / 15

Install the print carriage board and connect all connectors and cables.



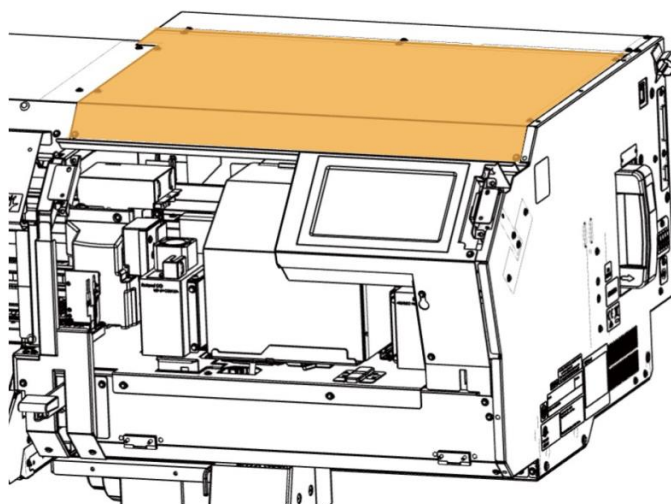
Step 13 / 15

Attach the cover.



Step 14 / 15

Attach the cover.



Step 15 / 15

Linear Encoder Setup



次の手順

リニアエンコーダー位置設定

Next Step

Linear encoder position setting

LG-645430 Encoder Scale Replacement

LG-645430 Encoder Scale Replacement Information

Step 1 / 5

Encoder scaleLinear encoder Set up [
SERVICE MENU] > [PRINT MENU] > [
LINEAR ENCODER]



Step 2 / 5

Necessary Tools

一般ツール/General Tool

プラスドライバー No.2
No.2 Phillips screwdriver



Step 3 / 5

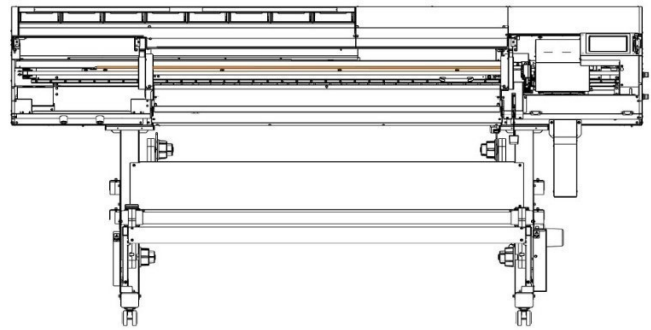
Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
エンコーダスケール交換 Encoder scale replacement	15 min.
リニアエンコーダ位置設定 Linear encoder setup	5 min.

Step 4 / 5

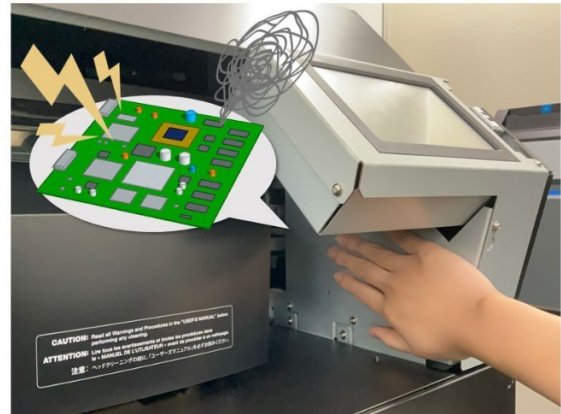
Encoder scale



Step 5 / 5

To prevent damage from static electricity, release static electricity from your body before touching electronic components. Touching an unpainted metal surface helps to release static electricity.

CAUTION !



LG-645430 Encoder Scale Replacement

LG-645430 Encoder Scale Replacement Procedure

Step 1 / 18

Open the covers.



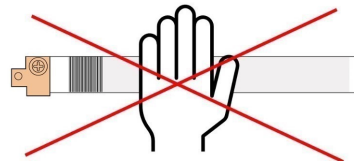
Step 2 / 18

Move the print head carriage.



Step 3 / 18

Be careful not to touch, scratch or smudge the encoder scale surface during installation.



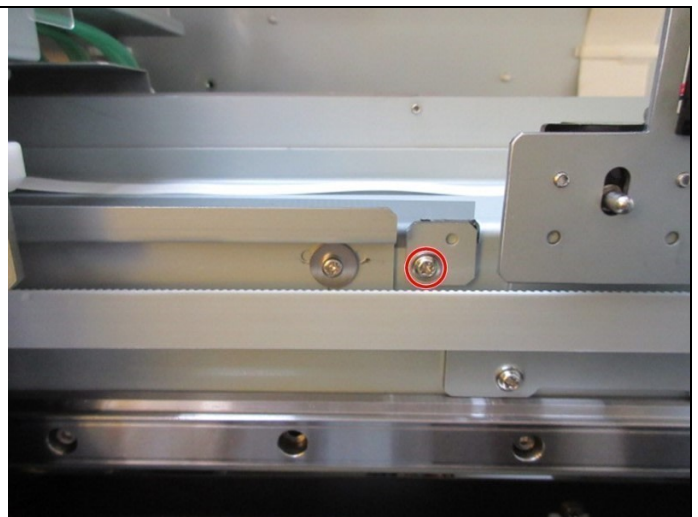
Step 4 / 18

Remove the left side spring.



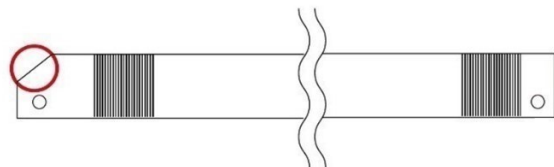
Step 5 / 18

Remove the plate securing the right side of the encoder scale and remove the encoder scale.



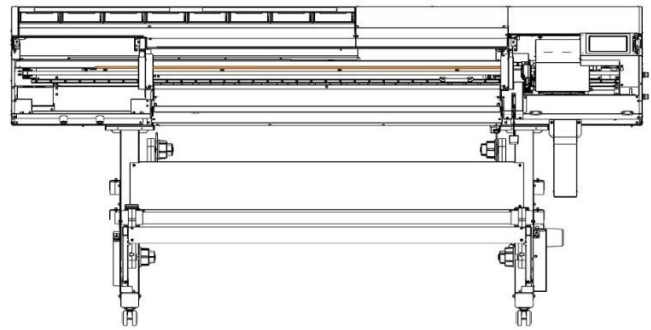
Step 6 / 18

The spring is attached to the notched side.



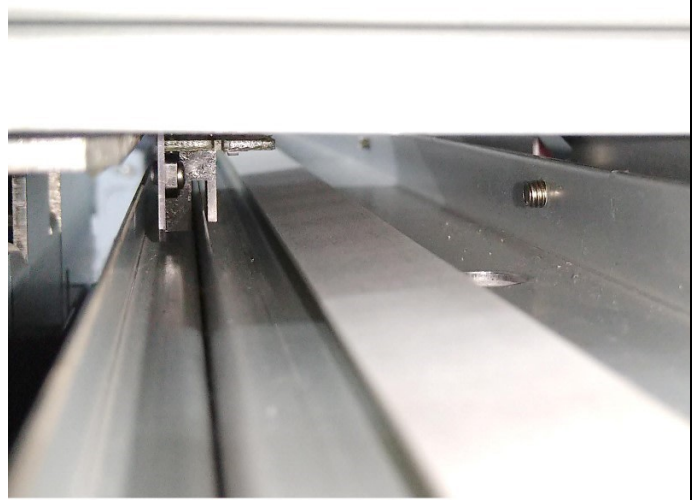
Step 7 / 18

Install the encoder scale.



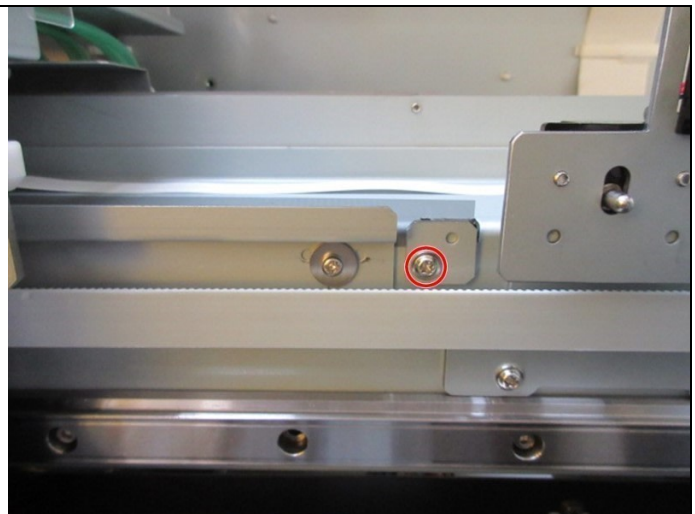
Step 8 / 18

Insert the encoder scale into the gap between the encoder plate and the guide rail.



Step 9 / 18

Detail2: Temporarily fasten the right side of the encoder with the plate.



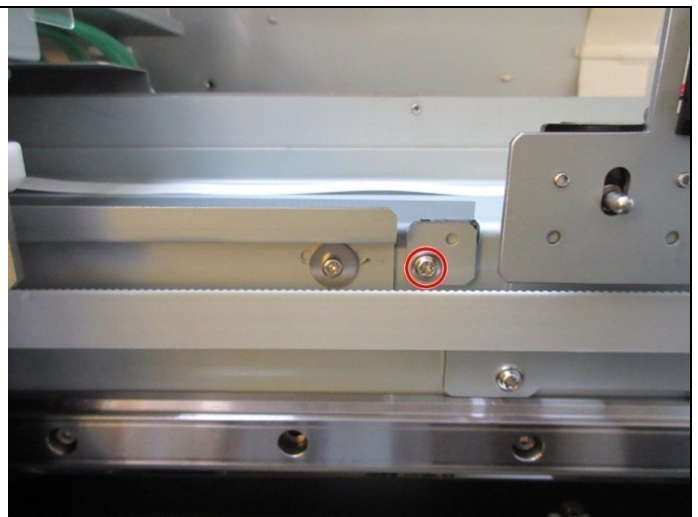
Step 10 / 18

Detail3: Attach the spring on the left side of the encoder.



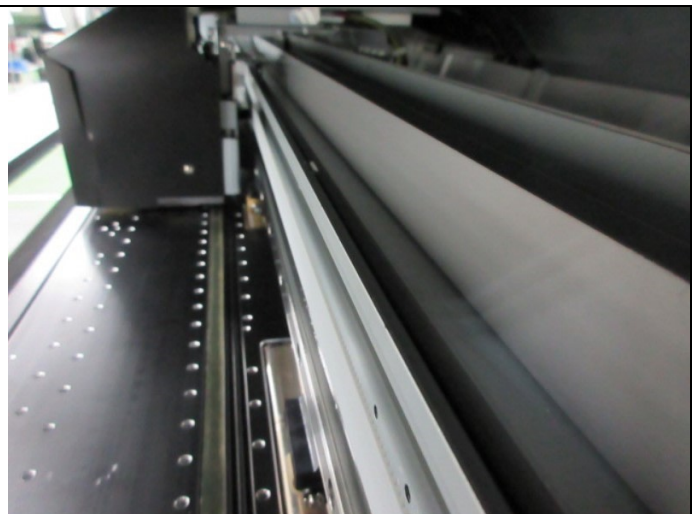
Step 11 / 18

Detail4: Retighten the screw on the right side.



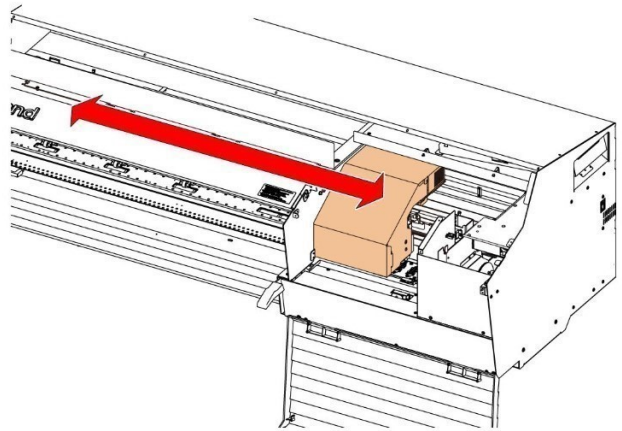
Step 12 / 18

Detail4: Check visually if the encoder scale is in place.



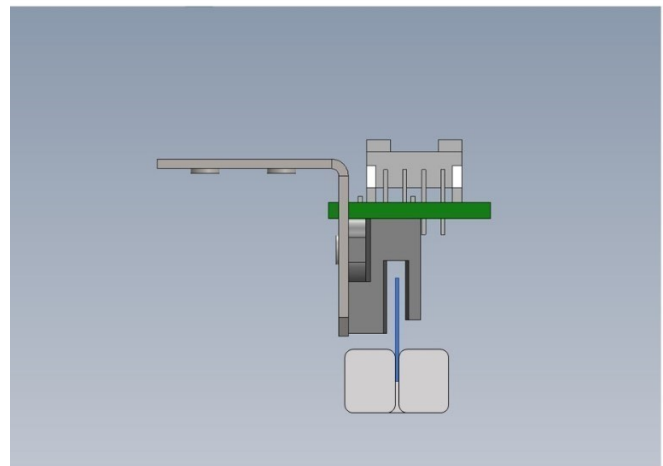
Step 13 / 18

Move the print head carriage across the whole width of the machine and confirm that the encoder scale does not make contact with the encoder sensor. Also, check that the encoder scale is in between the slit of the encoder sensor.



Step 14 / 18

Make sure the encoder is not in contact with the sensor.



Step 15 / 18

Detail1: Lock the print print head carriage.



Step 16 / 18

Close all open covers.



Step 17 / 18

Next step [Linear Encoder Setup].



次の手順

リニアエンコーダー位置設定

Next Step

Linear encoder position setting

Step 18 / 18

Next step [Linear Encoder Setup].



次の手順

リニアエンコーダー位置設定

Next Step

Linear encoder position setting

LG-645430 Carriage Belt Replacement

LG-645430 Carriage Belt Replacement

Information

Step 1 / 5

General tools

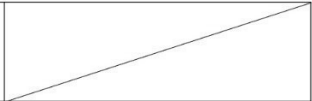
一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
六角レンチ 3.0mm 3.0mm hexagonal wrench	
テープ Tape	

Step 2 / 5

Special tools

特殊治具/Special Tools

None	
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Step 3 / 5

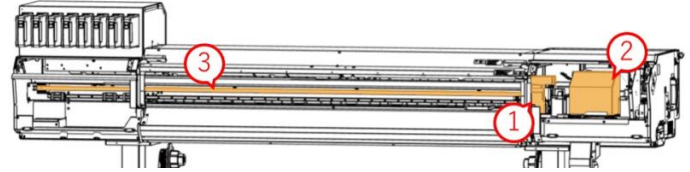
Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
キヤリッジベルト交換 Carriage belt Replacement	30 min.

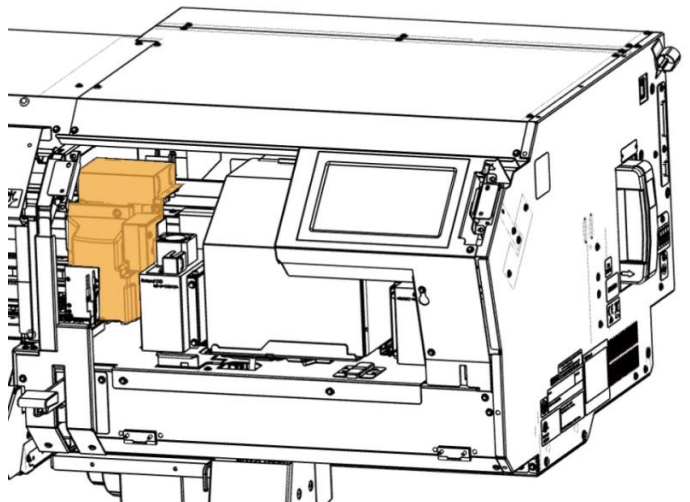
Step 4 / 5

1. Tool carriage, 2. Print head carriage,
3. Carriage belt



Step 5 / 5

Cover That Needs to Be Removed

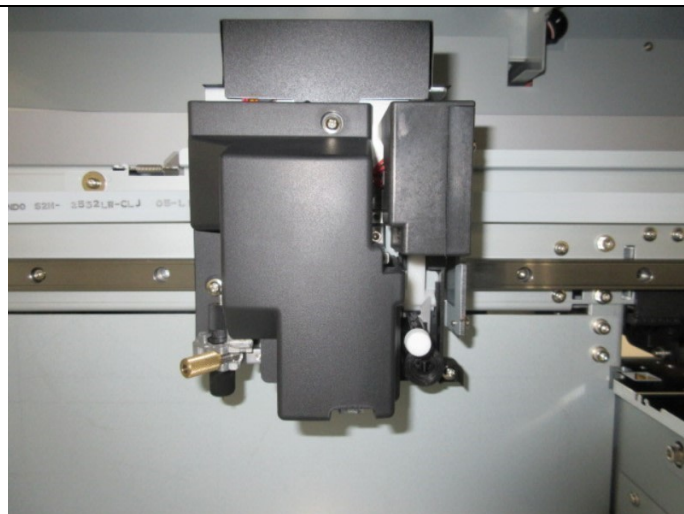


LG-645430 Carriage Belt Replacement

LG-645430 Carriage Belt Replacement Procedure

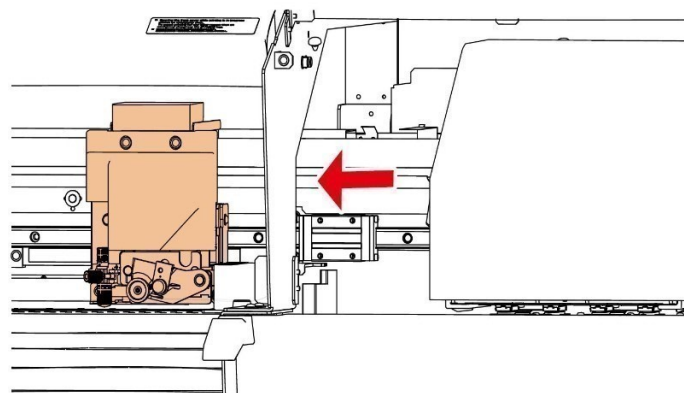
Step 1 / 27

Move the tool carriage to the maintenance cover L side.



Step 2 / 27

Detail1: Disconnect the tool carriage from the print head carriage.



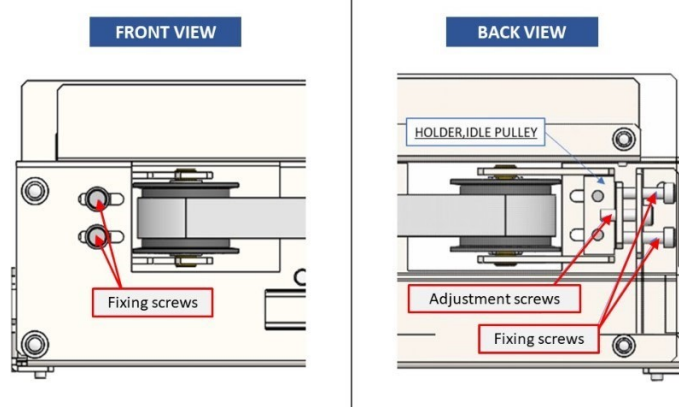
Step 3 / 27

Detail2: Move the tool carriage to the maintenance cover L side.



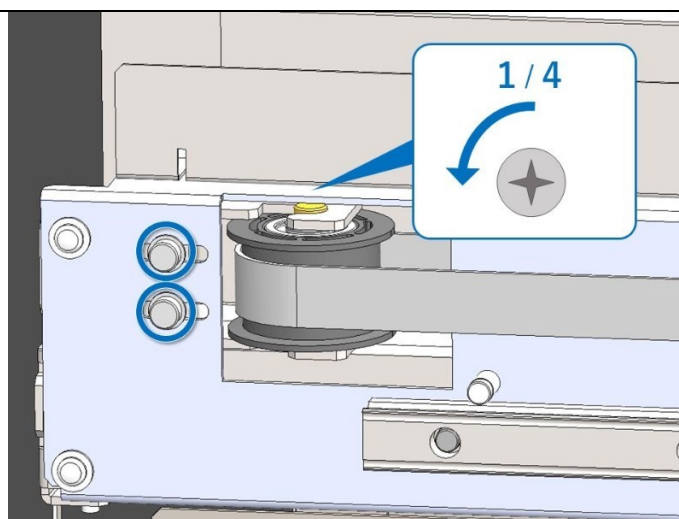
Step 4 / 27

Loosen the fixing screw of the idle pulley side at the left end of the belt by about a quarter turn and loosen the adjustment screw by about 2 to 3 turns.



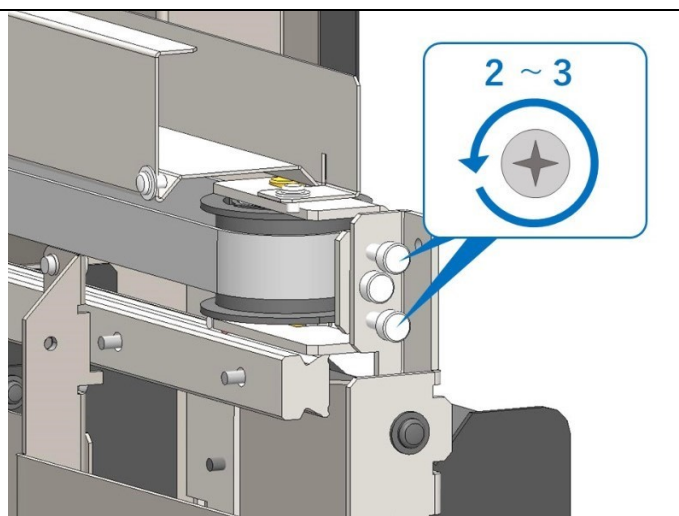
Step 5 / 27

Detail1: Loosen the fixing screw of the idle pulley side at the left end of the belt by about a quarter turn.



Step 6 / 27

Detail2: Loosen the adjustment screw by about 2 to 3 turns.



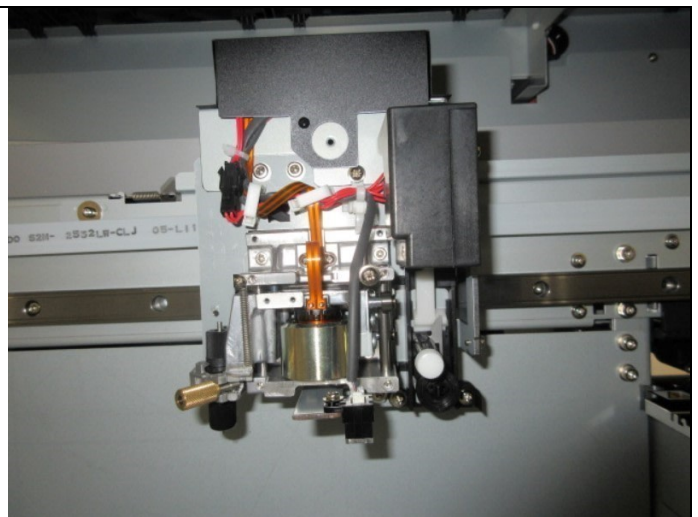
Step 7 / 27

Detail3: Adjustment screws are accessible from outside the cover



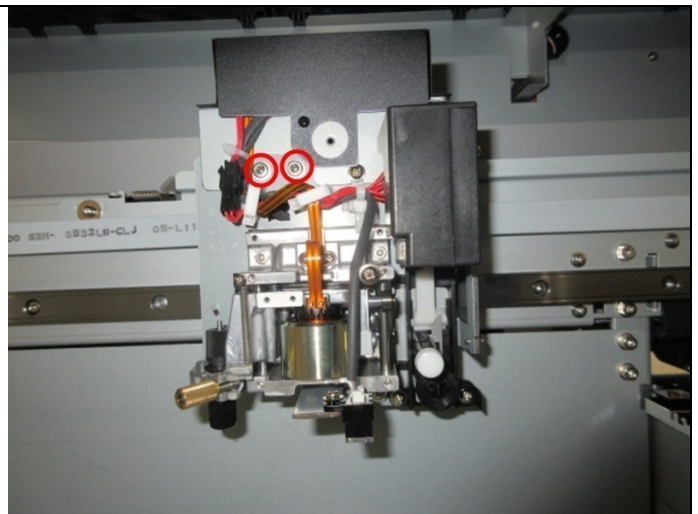
Step 8 / 27

Remove the tool carriage cover.



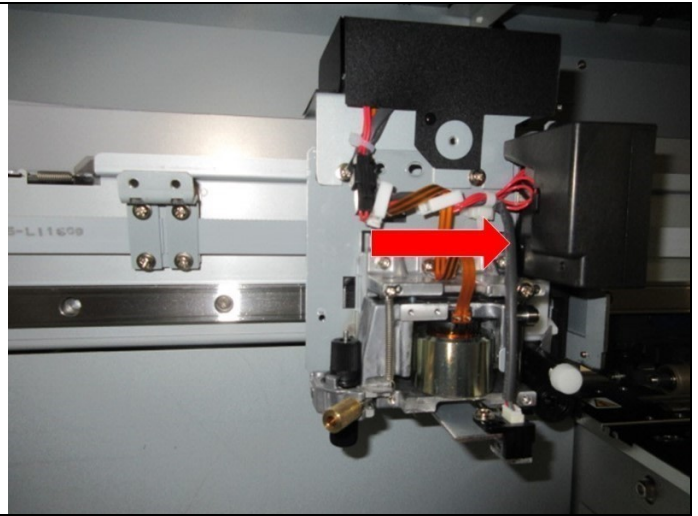
Step 9 / 27

Remove the screws (two places).



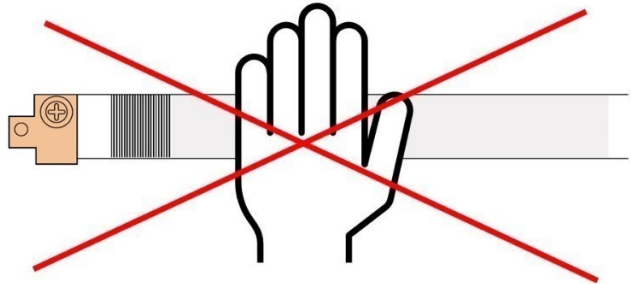
Step 10 / 27

Slide the tool carriage to the right.



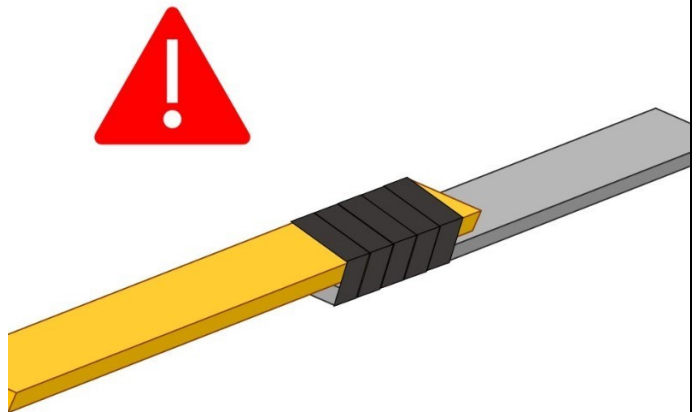
Step 11 / 27

When removing the carriage belt, make sure the carriage belt does not touch the encoder scale. If the grease on the belt adheres to the encoder scale, printing problems may occur.



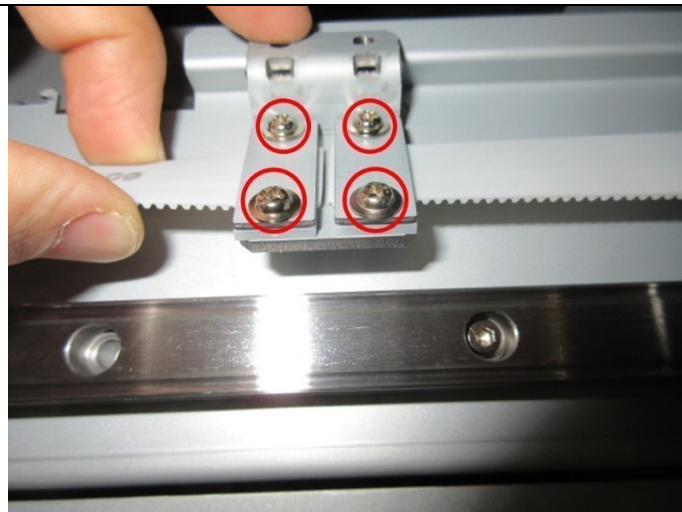
Step 12 / 27

When replacing the carriage belt, make sure to connect the new belt to the old belt, and then thread the new belt into places when you remove the old belt. Failure to follow this procedure may make it impossible to install the new belt.



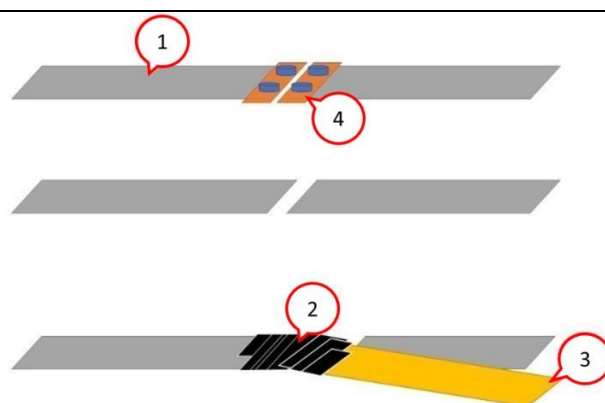
Step 13 / 27

Remove the carriage belt.



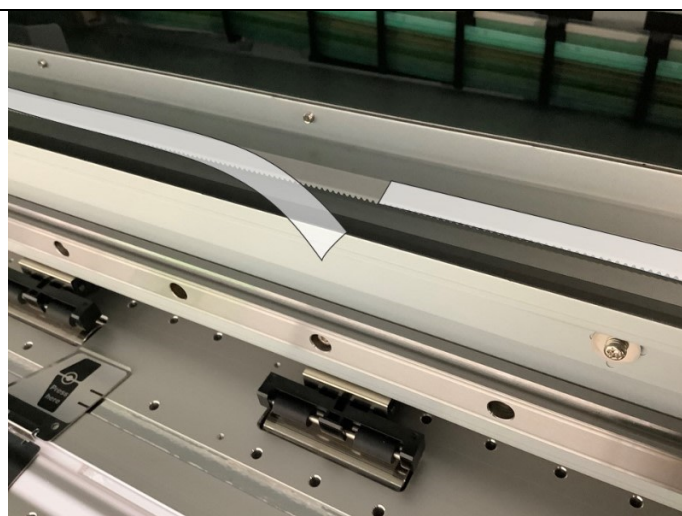
Step 14 / 27

Remove the carriage belt from the stay.
Then attach the new carriage belt to the
old carriage belt using scotch tape. 1. Old
carriage belt 2. Tape 3. New carriage
belt



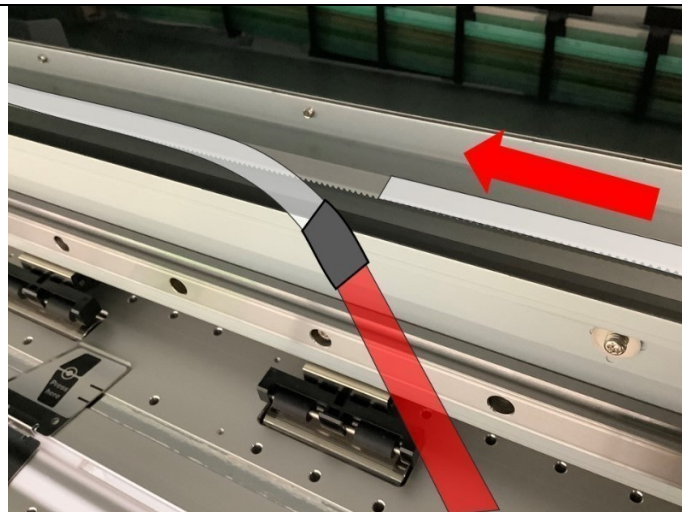
Step 15 / 27

Detail1: Remove the carriage belt from
the stay.



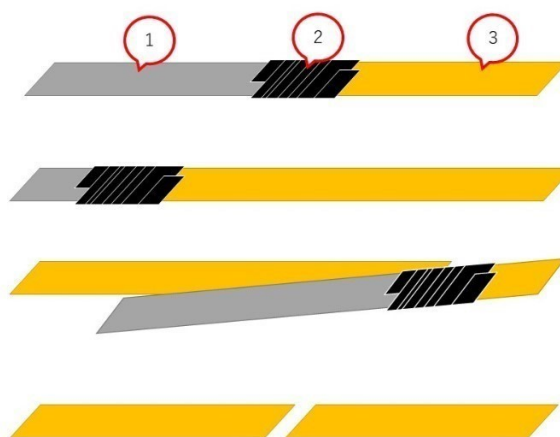
Step 16 / 27

Detail2: Attach the new carriage belt to one side of the old belt with tape.



Step 17 / 27

Pull the old belt until it reaches the side of the belt that new carriage belt is not connected. When the belt has gone around once, remove the tape. 1.Old carriage belt 2. Tape 3. New carriage belt



Step 18 / 27

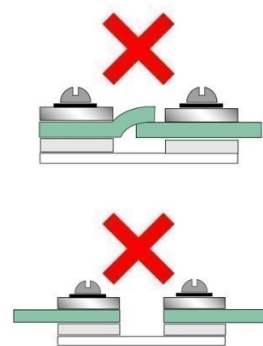
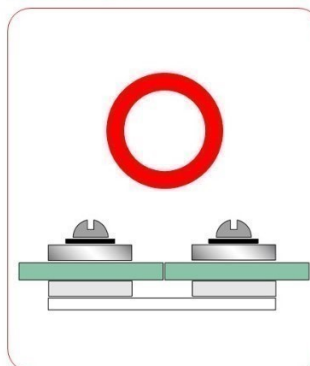
Detail1: Pull the old belt until it reaches the side of the belt that new carriage belt is not connected.



Step 19 / 27

When attaching the carriage belt, make sure the ends of the carriage belt are not overlapped. Also, be careful of the orientation of the plastic plate and the order in which the plates are fixed.

CAUTION



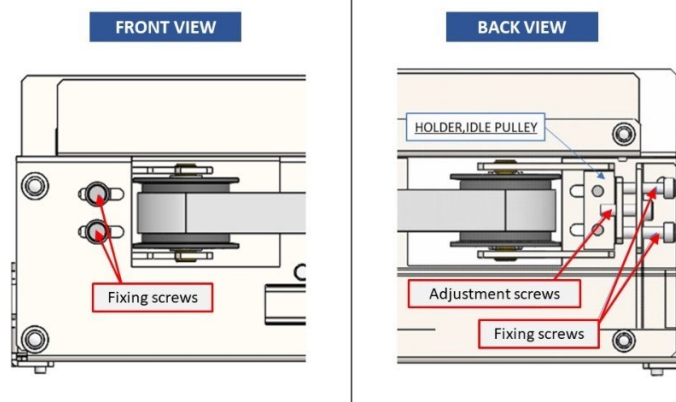
Step 20 / 27

Attach the ends of the carriage belt with the plastic plate and sheet metal plate, and the belt holder with the screws.



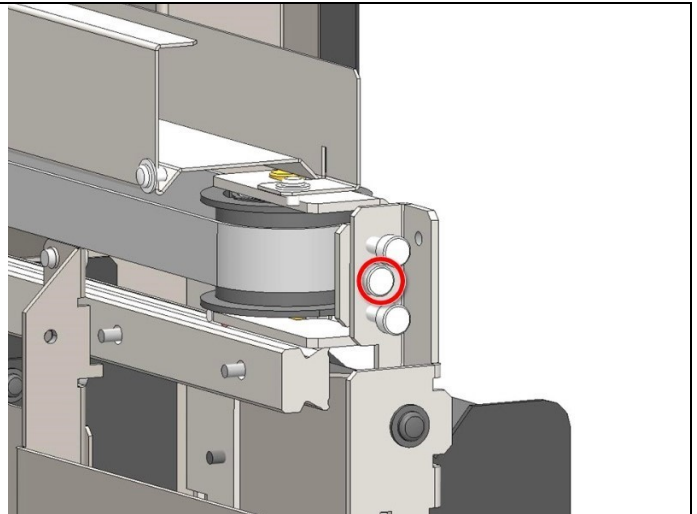
Step 21 / 27

Tighten the adjustment screw to remove the slack in the belt. Do not overtighten the screws. Then tighten the fixing screws on idle pulley side.



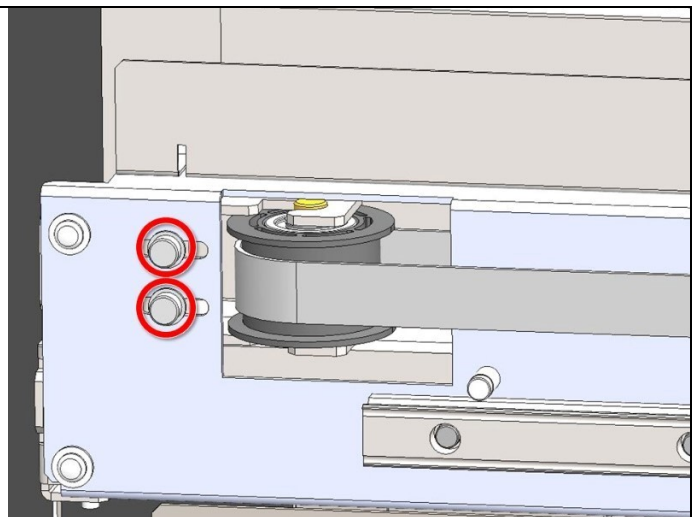
Step 22 / 27

Detail1: Tighten the adjustment screw to remove the slack in the belt. Do not overtighten the screws.



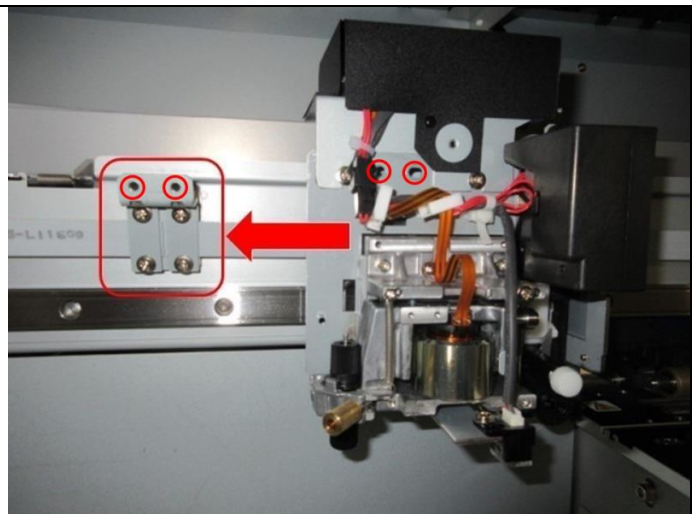
Step 23 / 27

Detail2: Tighten the fixing screws on idle pulley side.



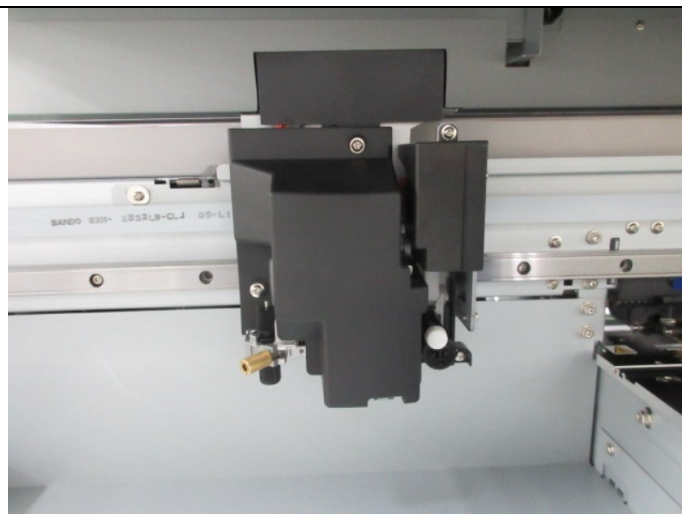
Step 24 / 27

Slide the tool carriage and attach it to the belt holder.



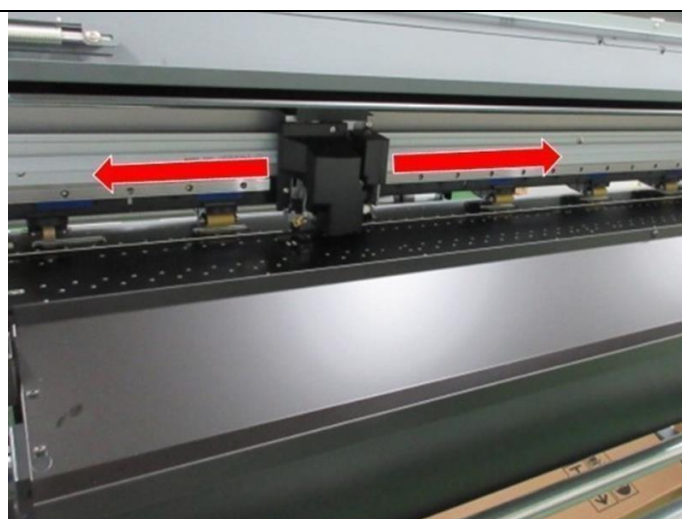
Step 25 / 27

Attach the tool carriage cover.



Step 26 / 27

Move the tool carriage across the whole width of the guide rail several times to remove the slack in the carriage belt.



Step 27 / 27

Perform Belt Tension Adjustment, Belt Position Adjustment, Limit position initialization, and Check cutting quality.



次の手順

ベルトテンション調整
ベルト位置調整
リミット位置調整
カット品質確認

Next Step

Belt tension adjustment
Belt position adjustment
Limit position adjustment
Check cutting quality

LG-645430 Shutter unit replacement

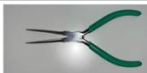
LG-645430 Shutter unit replacement

Information

Step 1 / 4

General Tools

一般ツール/General Tool

プラスドライバー No.2 (長さ200mm以下) No.2 Phillips screwdriver (Length 200mm or less)	
六角レンチ 2.5 mm 2.5 mm hexagonal wrench	
ペンチ Pliers	
スケール (定規) Ruler	
ニッパー Nippers	

Step 2 / 4

Special Tools

特殊治具/Special Tools

ST-056 TORQUE DRIVER N6	
1000015274 BIT, PHILLIPS NO.2 L200MM	

Step 3 / 4

Typical work time

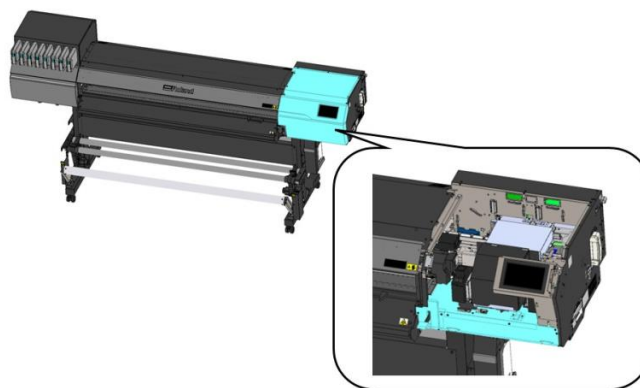
作業時間/Typical work time

作業内容/Contents of work	時間/Time
シャッターユニット交換 Shutter Unit replacement	60 min.

Step 4 / 4

Covers that need to be removed

概要図/Outline Diagram



LG-645430 Shutter unit replacement

LG-645430 Shutter unit replacement

Procedure

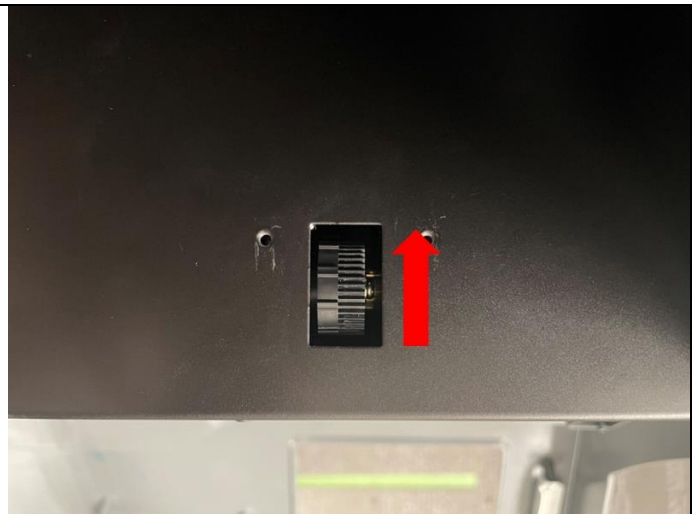
Step 1 / 65

Turn off the main power supply and unplug the power cable.



Step 2 / 65

Rotate the cap up/down elevation gear to backward about 5 times to remove the capping.



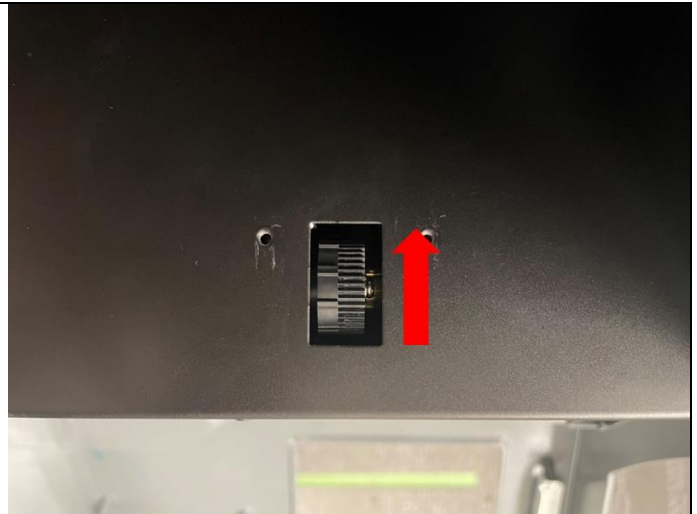
Step 3 / 65

Detail1: Remove the cap up/down elevation gear cover.



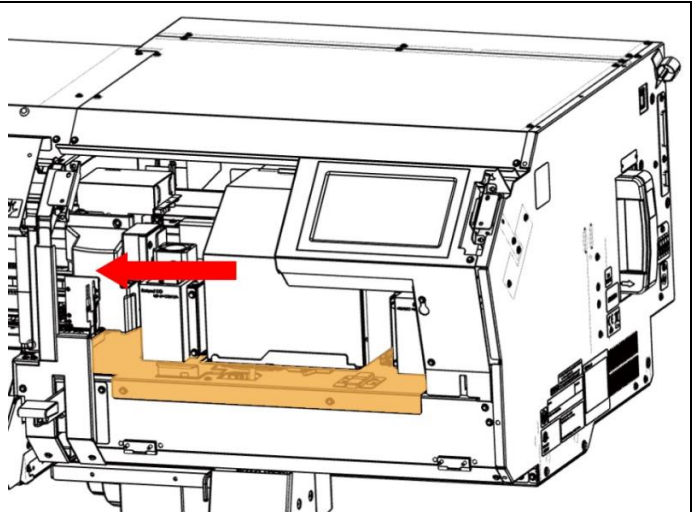
Step 4 / 65

Detail:2: Rotate the cap up/down elevation gear backward about 5 times to remove the capping



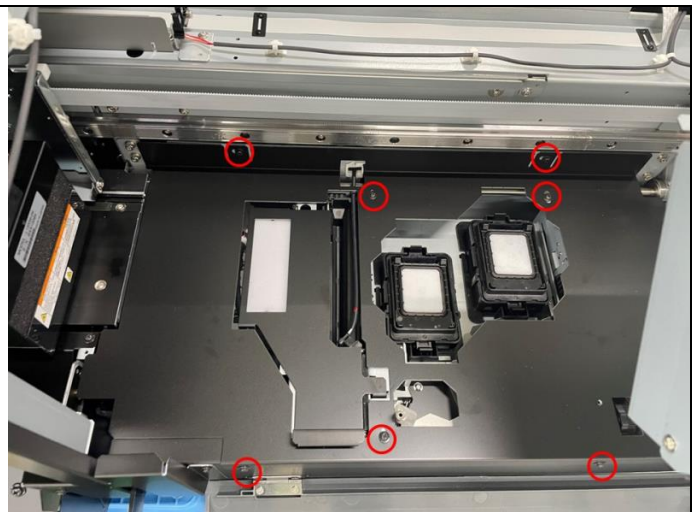
Step 5 / 65

Move the carriage to the bed and remove the maintenance cover.



Step 6 / 65

Detail1: Remove the 7 screws.



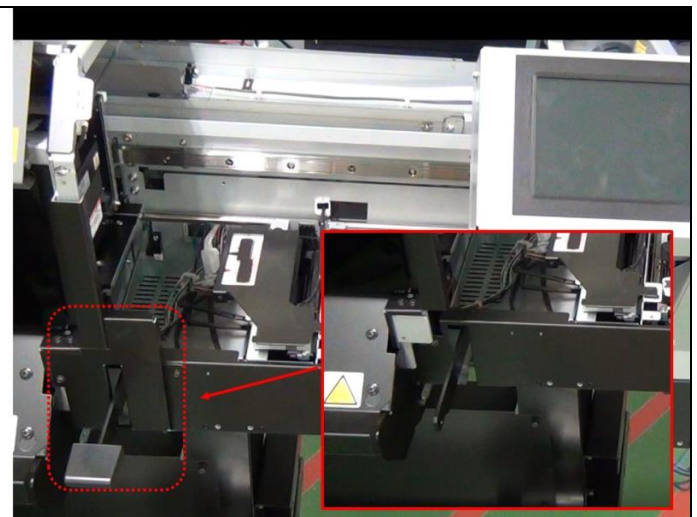
Step 7 / 65

Remove the right side maintenance cover.



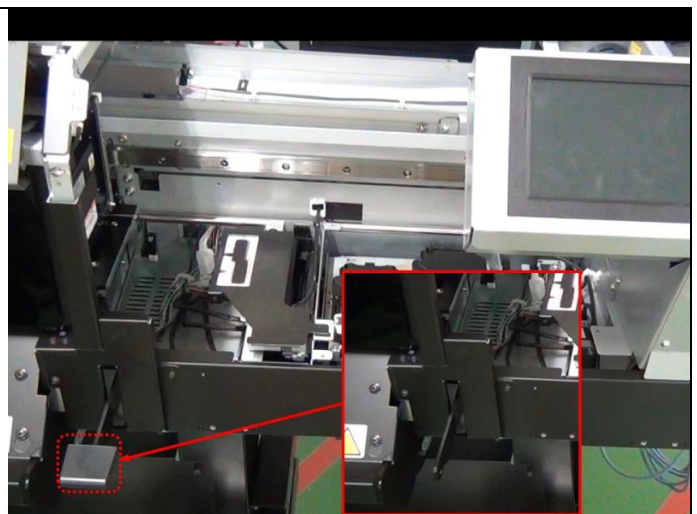
Step 8 / 65

Remove the pinch lever cover and handle.



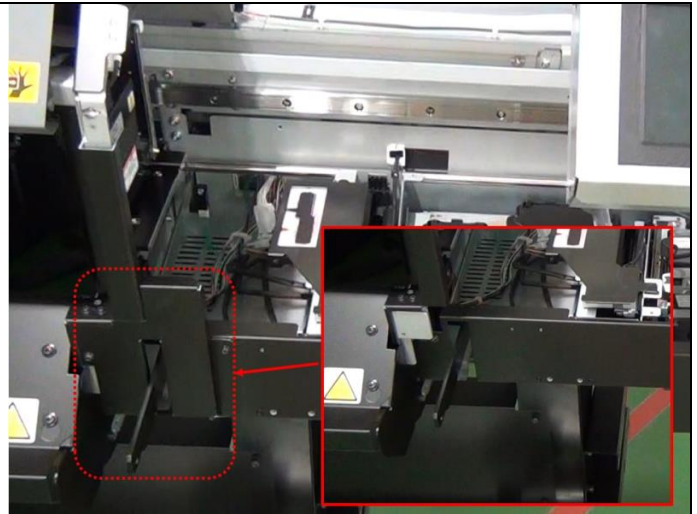
Step 9 / 65

Detail1: Remove one screw and remove the pinch lever handle.



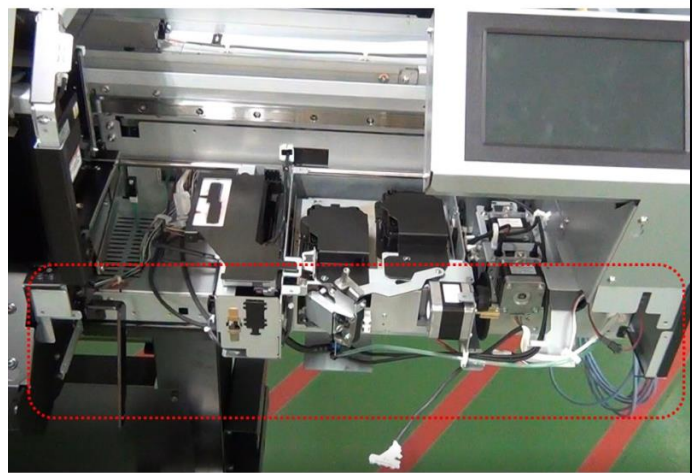
Step 10 / 65

Detail2: Remove the lever cover.



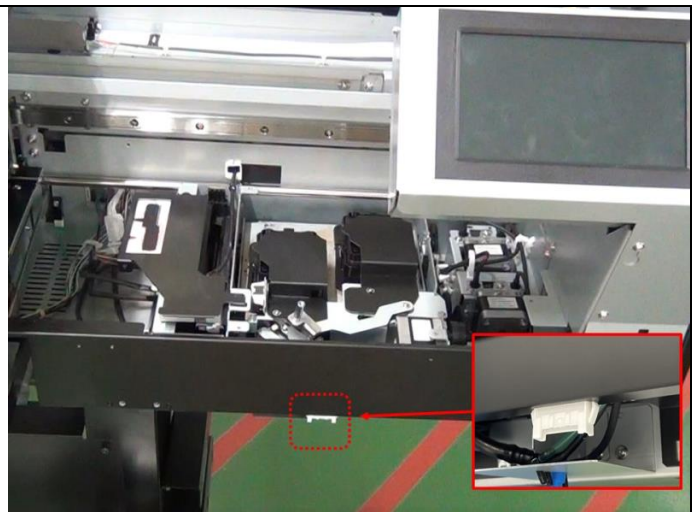
Step 11 / 65

Remove the under cover.



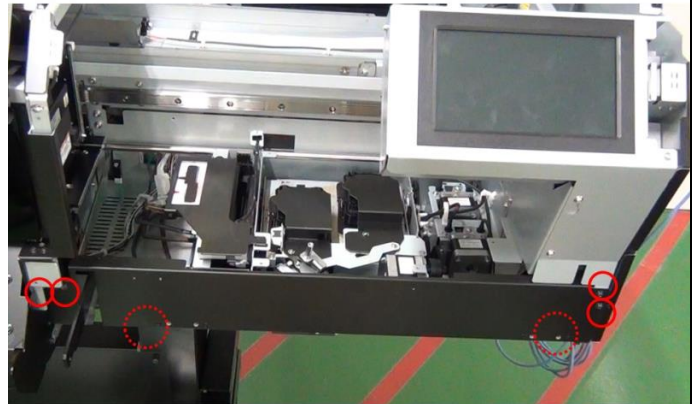
Step 12 / 65

Detail1: Push the connector claw from both sides to the back.



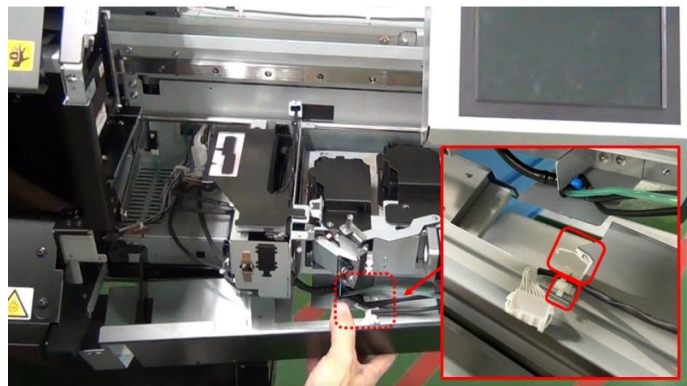
Step 13 / 65

Detail2: Remove the six screws.



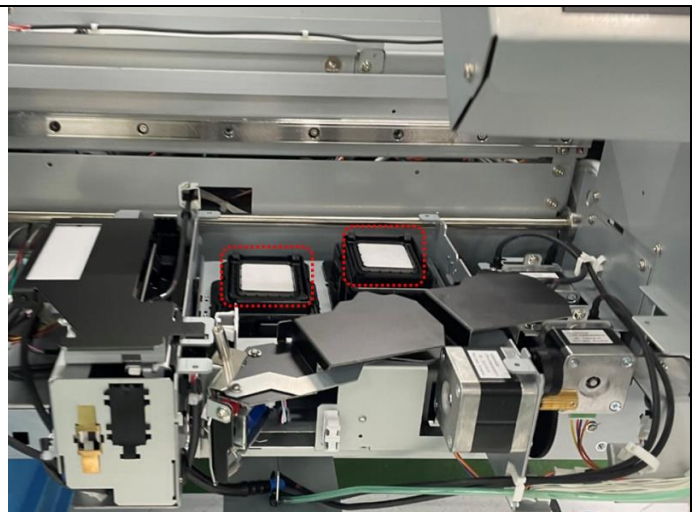
Step 14 / 65

Detail3: Open the cable saddle, remove the cable tie, and remove the cover.



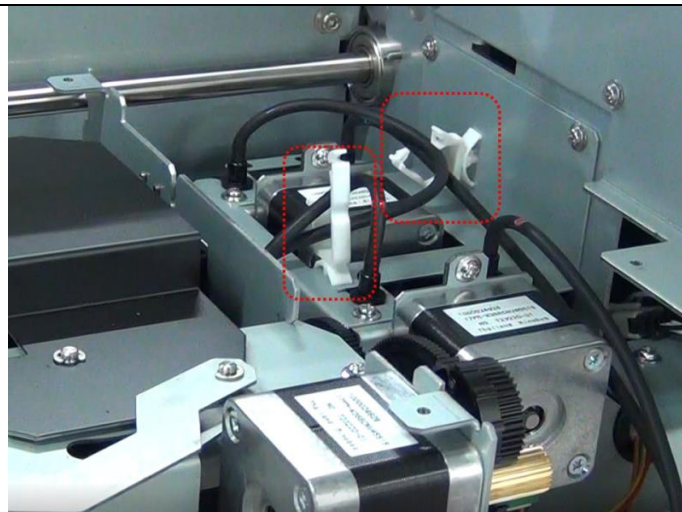
Step 15 / 65

Remove the two print head caps.



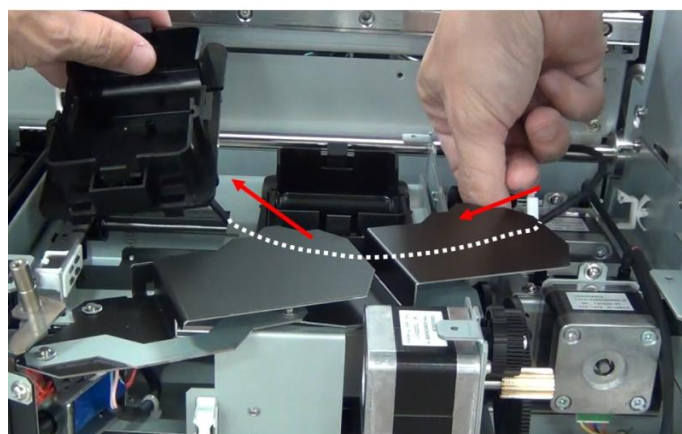
Step 16 / 65

Open the cable saddle and remove the tube.



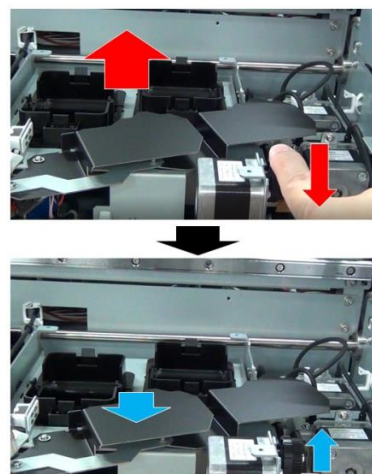
Step 17 / 65

Remove the cap base on the left side. To prevent the tube under the base from coming off, feed the tube marked in red to the base side.



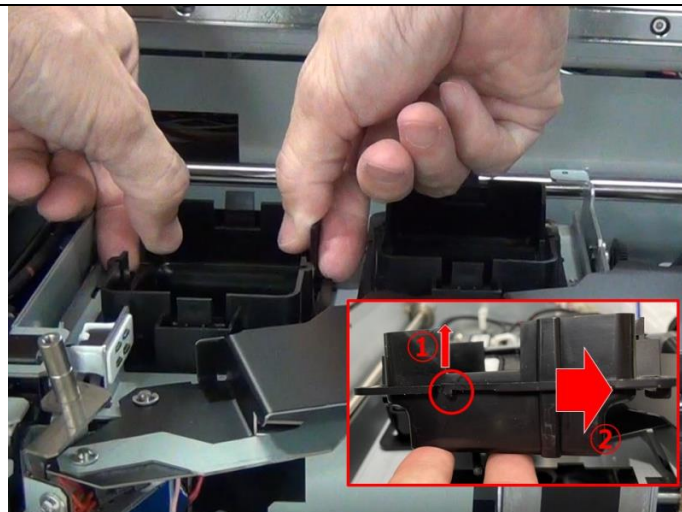
Step 18 / 65

Detail1: To prevent the cap base from interfering with the shaft and making it difficult to remove, adjust the height of the base. Turn the cap up/down elevation gear toward you until the cap top is fully raised. Then turn the gear backward about one turn to slightly lower the print head cap.



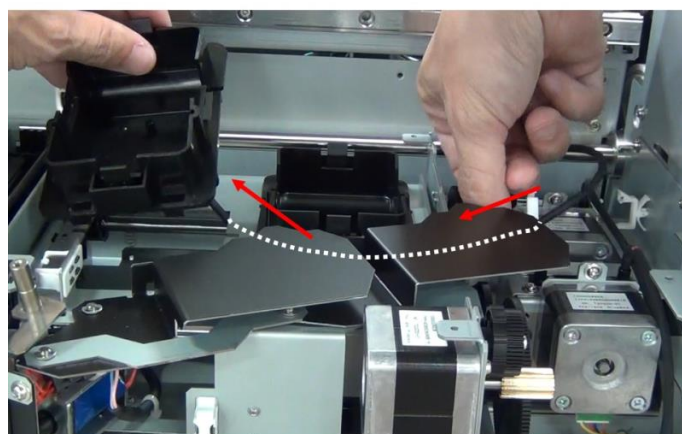
Step 19 / 65

Detail2: "1. Lift up the left and right locks on the cap base. 2. With the locks lifted, slide the cap base toward you and remove the cap base.*If it is difficult to remove, adjust the height with the gear."



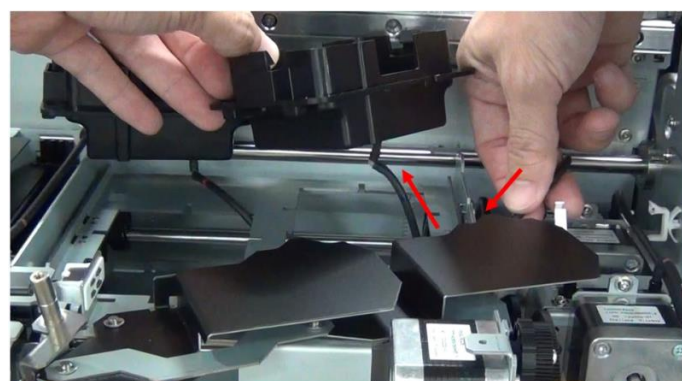
Step 20 / 65

Detail3: Pull up the cap base while feeding the tube marked in red toward the base.



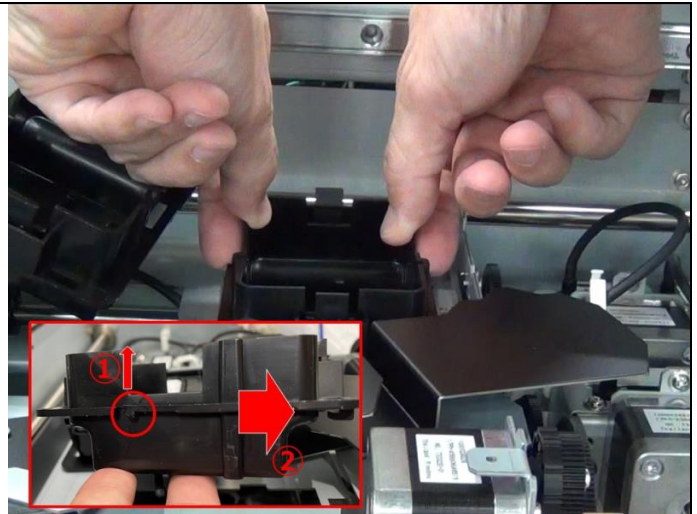
Step 21 / 65

Remove the cap base on the right side. Feed the tube marked blue to the base side to prevent the tube under the base from coming off.



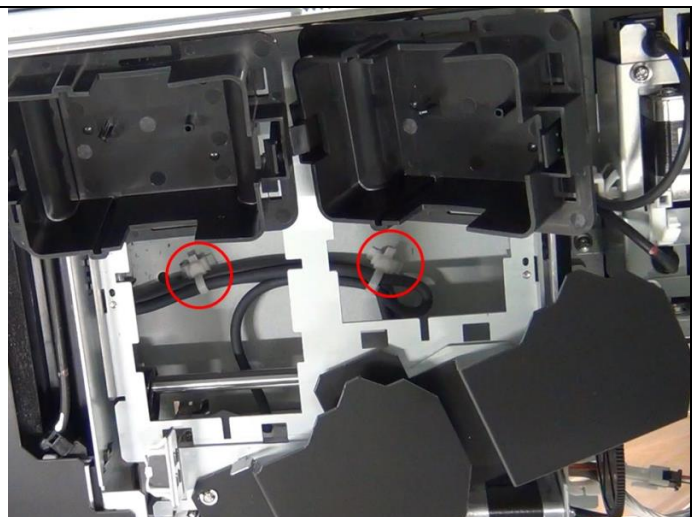
Step 22 / 65

Detail1: 1. lift up the left and right locks of the cap base 2. while lifting up the locks, slide the cap base toward you and remove the cap base. *If it is difficult to remove, adjust the height with the gear.



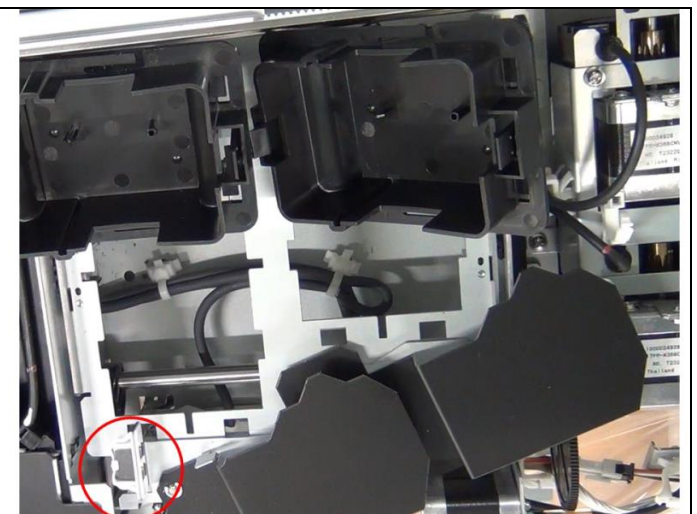
Step 23 / 65

Remove the cable tie.



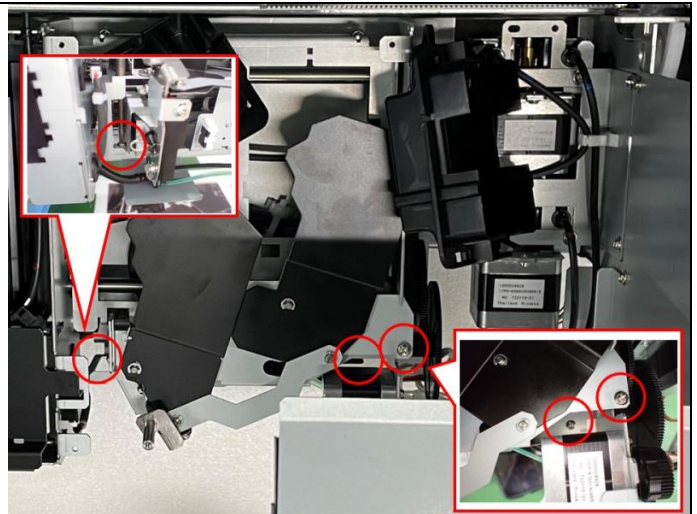
Step 24 / 65

Remove the magnet.



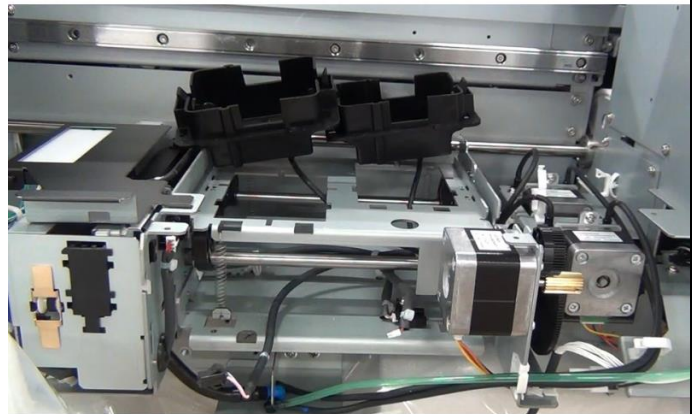
Step 25 / 65

Remove the three fixing screws of the shutter unit.



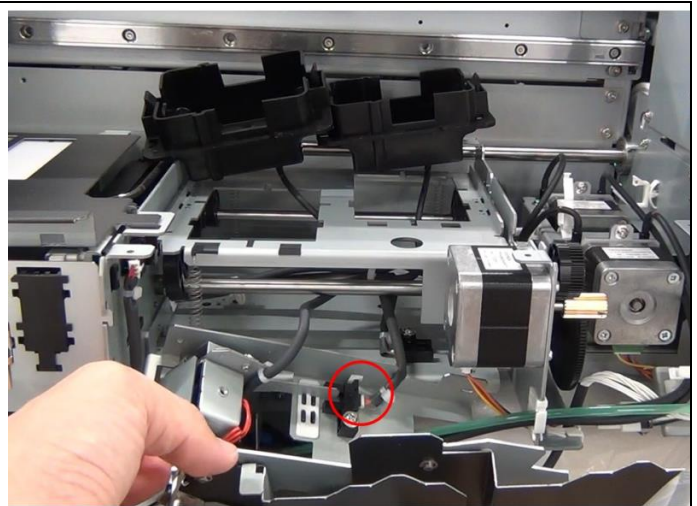
Step 26 / 65

Remove the shutter unit.



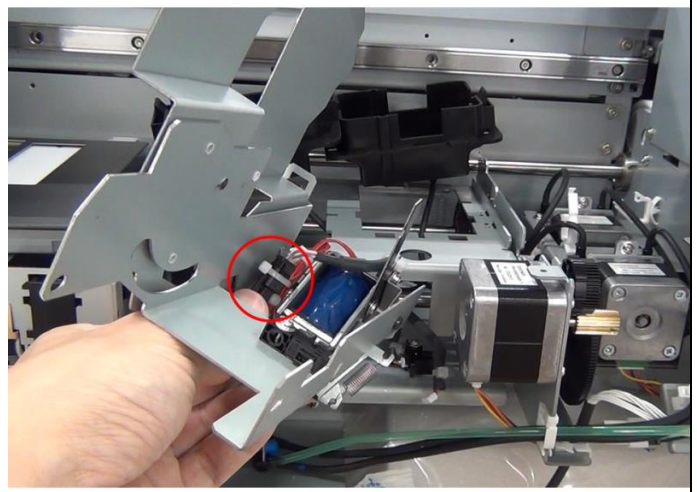
Step 27 / 65

Detail1: Remove the connector.



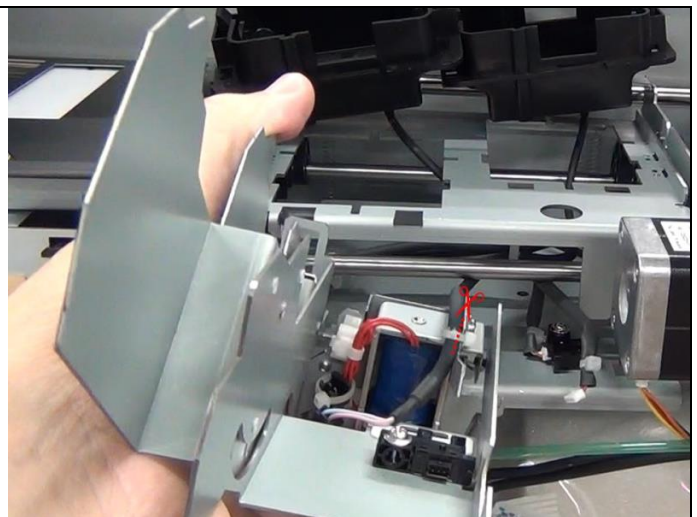
Step 28 / 65

Detail2: Remove the connector without removing the cable tie.



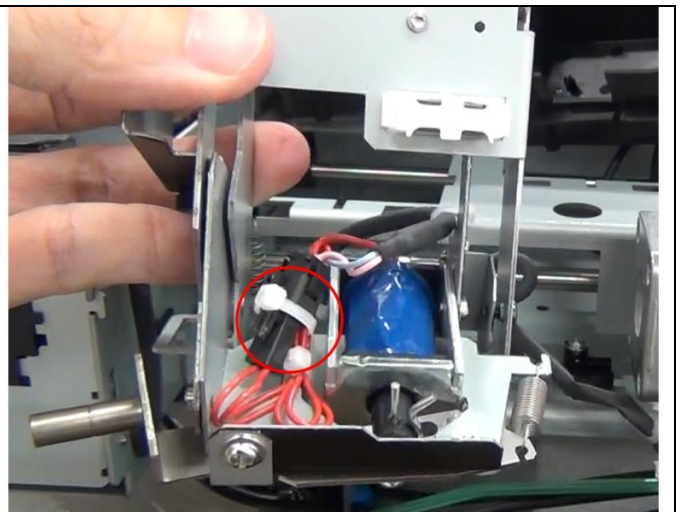
Step 29 / 65

Detail3: Cut off the cable tie.



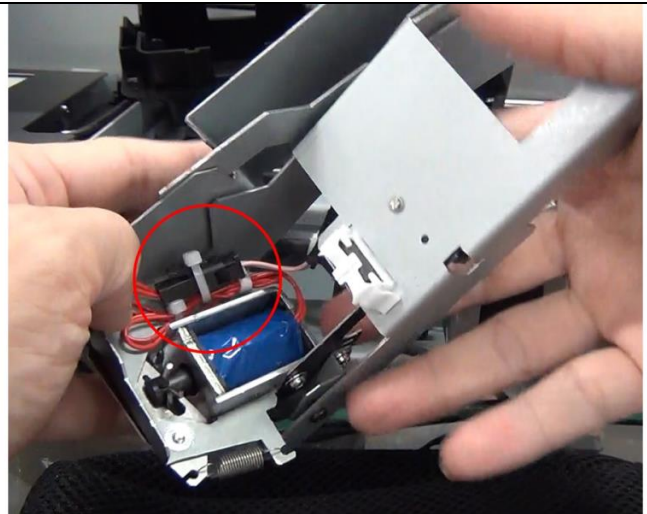
Step 30 / 65

When attaching the connector, set it so that the cable tie is in the same position as in the photo.



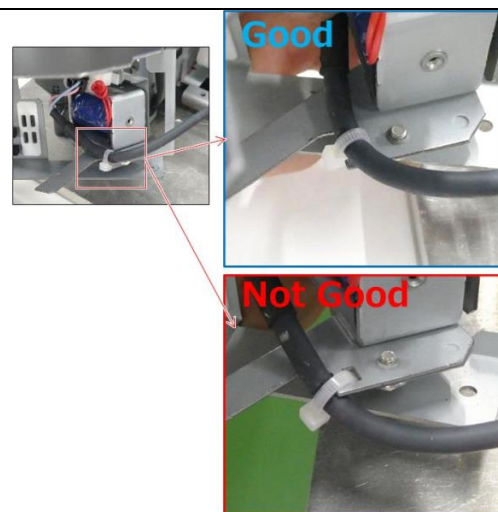
Step 31 / 65

Attach the connector to the new shutter unit. Pay attention to the cable routing.



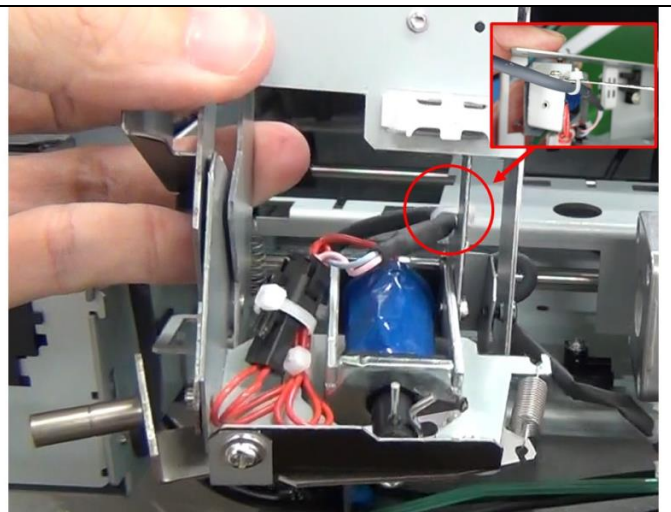
Step 32 / 65

When attaching the cable tie, install it so that the cable is on the sheet metal as shown in the figure.



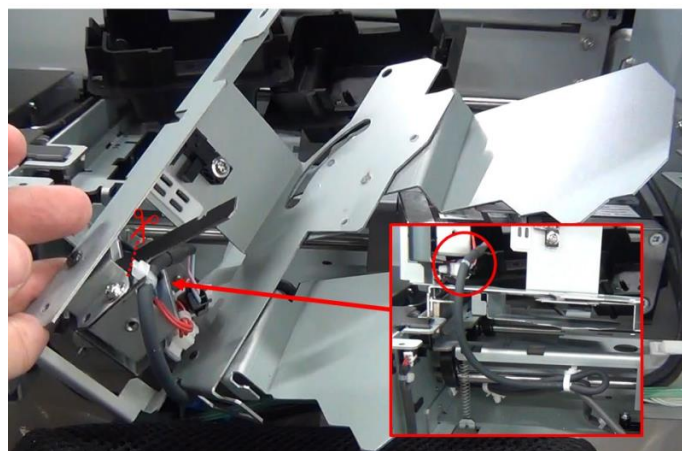
Step 33 / 65

Attach the cable tie so that the stop of the cable tie is aligned with the position shown in the photo. If it is not in the correct position, it may interfere with the sheet metal.



Step 34 / 65

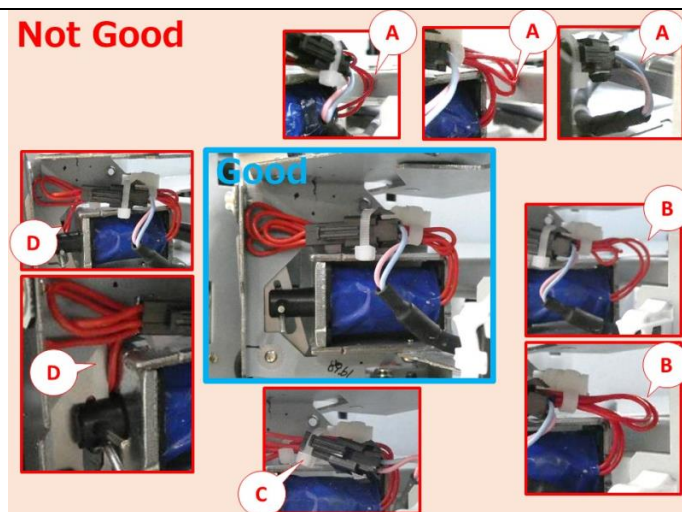
Attach the cable tie by aligning it with the white marked part of the cable, paying attention to the direction of the cable. Cut the unnecessary part of the cable tie with nippers.



Step 35 / 65

Check that there is no abnormality in the position of the cables and connectors. [A: Cable contact][B: Excessive cable sticking out][C: Abnormal connector fixing position][D: Cable pinched in].

Not Good

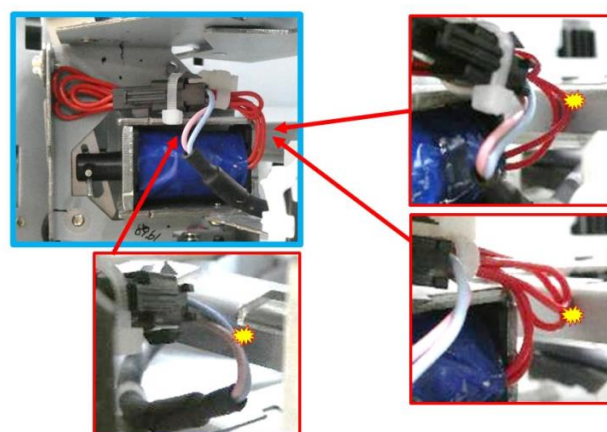


Step 36 / 65

Detail1: Cable contact

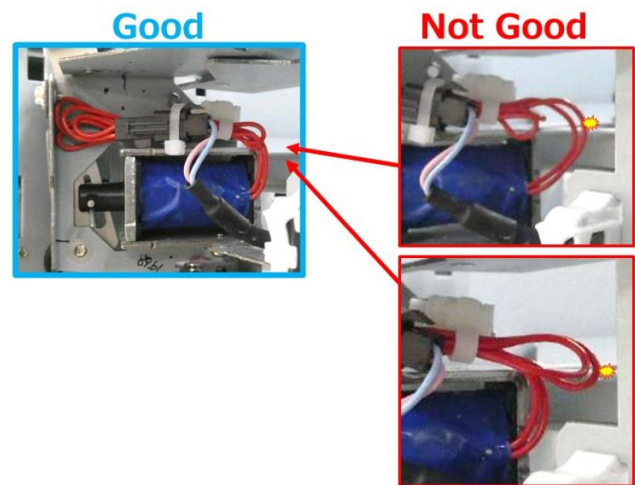
Good

Not Good



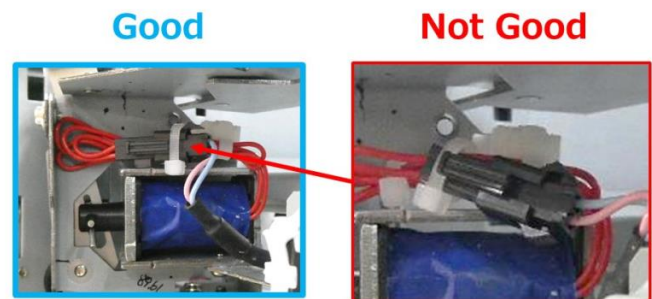
Step 37 / 65

Detail2: Excessive cable sticking out



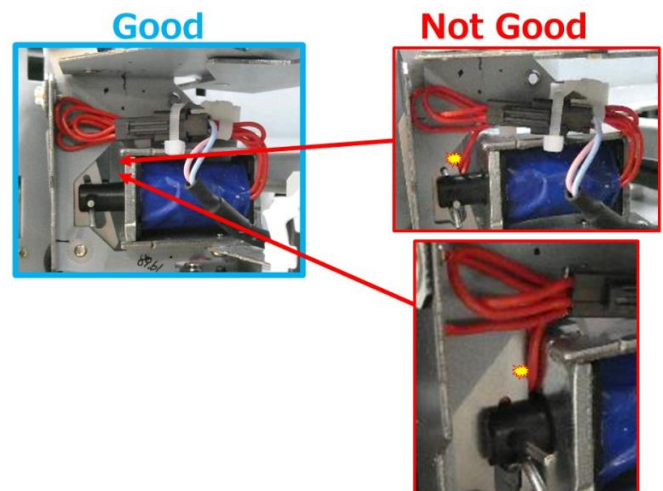
Step 38 / 65

Detail3: Abnormal connector fixing position



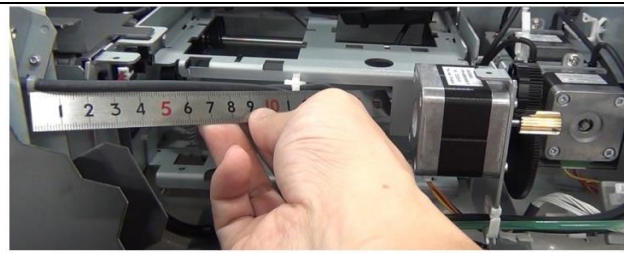
Step 39 / 65

Detail4: Cable pinched in



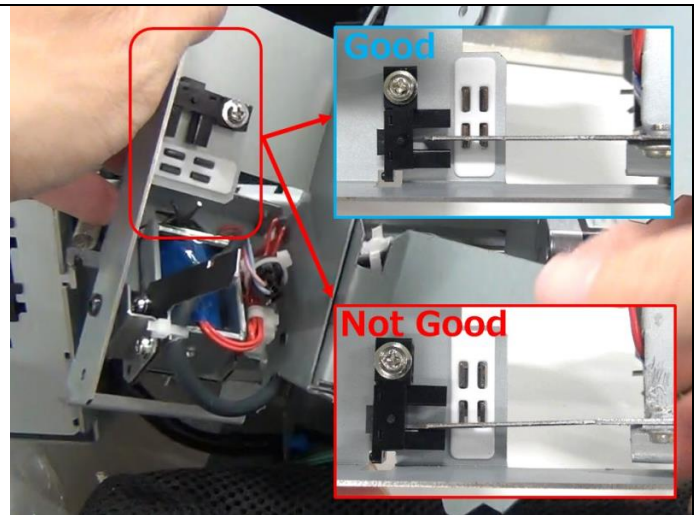
Step 40 / 65

Confirm that the fixing length of the cable tie is 120 ± 5 mm.



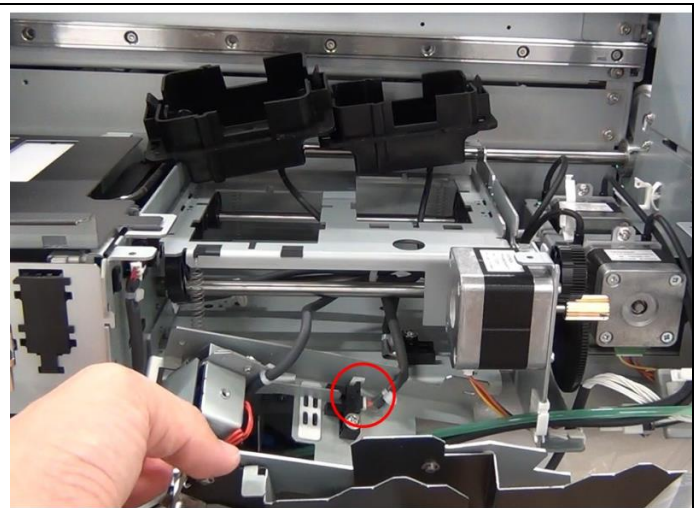
Step 41 / 65

Make sure that the sheet metal does not contact the sensor.



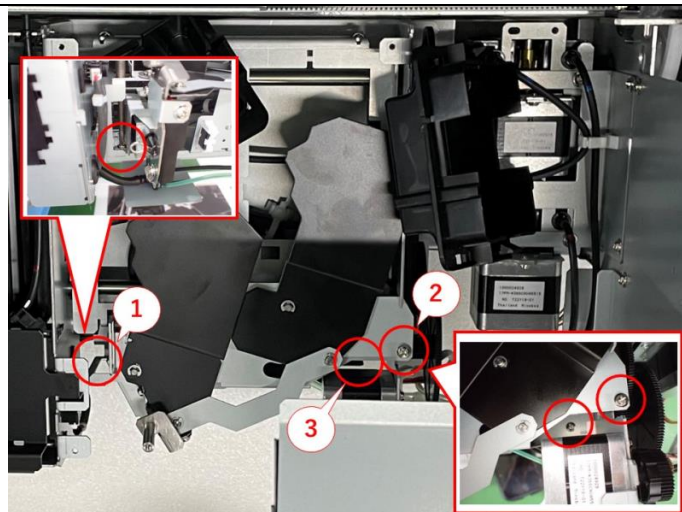
Step 42 / 65

Install the connector.



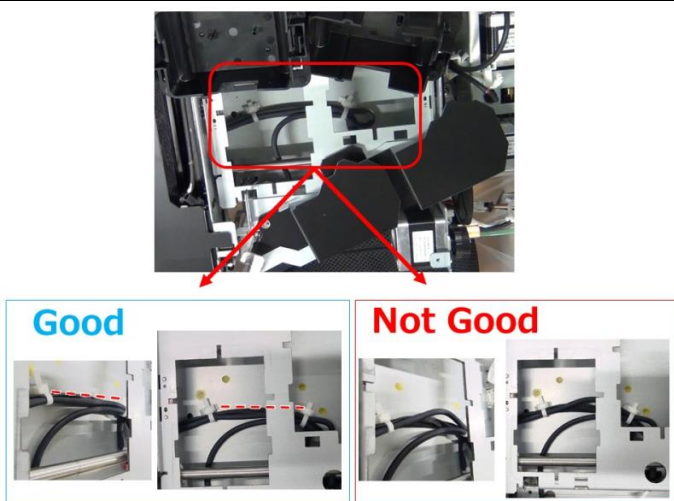
Step 43 / 65

Using a torque wrench (60cN-m), install the three screws in sequence.



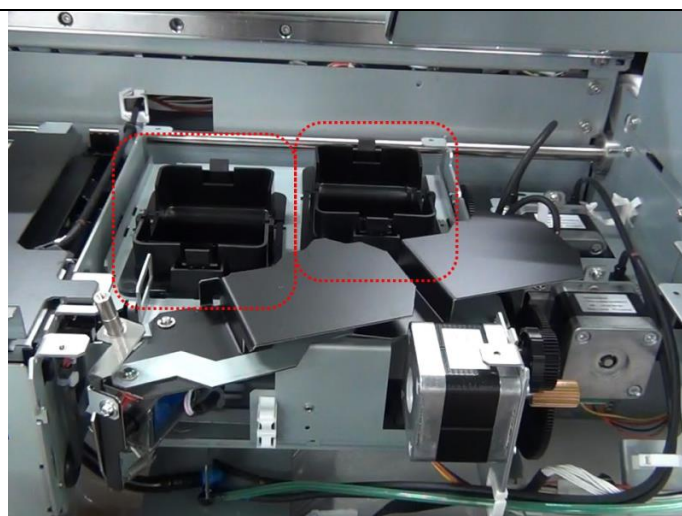
Step 44 / 65

Attach the cable tie so that there is no sagging in the cable under the cap base.



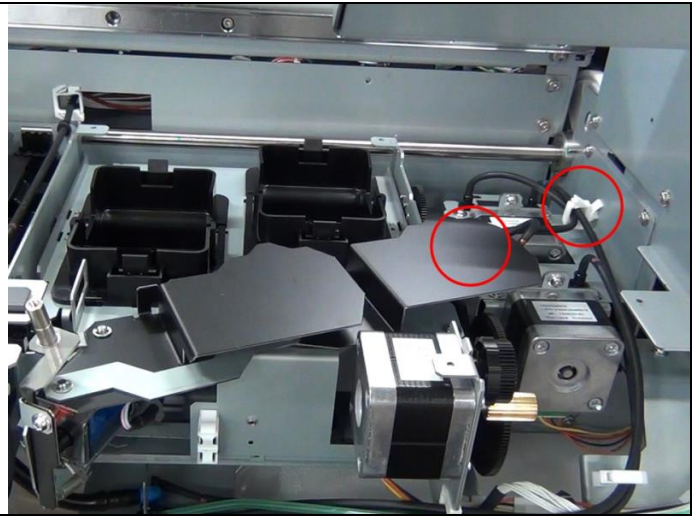
Step 45 / 65

"Install the left and right cap bases while feeding the tube to the right side to prevent the tube from bending.*If installation is difficult, turn the gear and move the base to an easier position for installation."



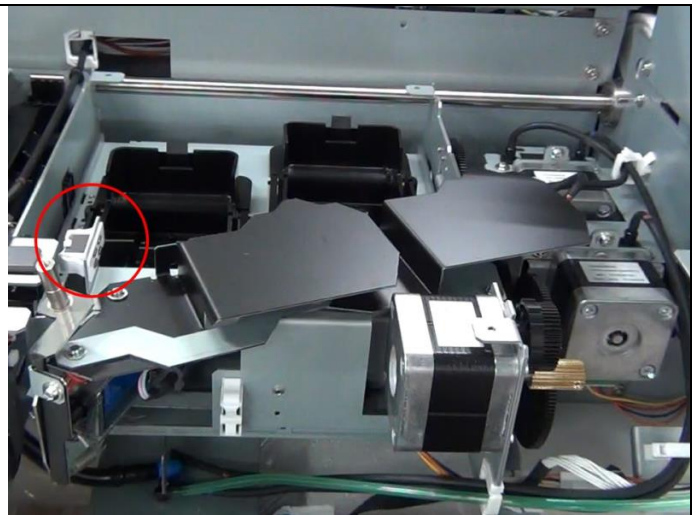
Step 46 / 65

Attach the tube to the cable saddle.



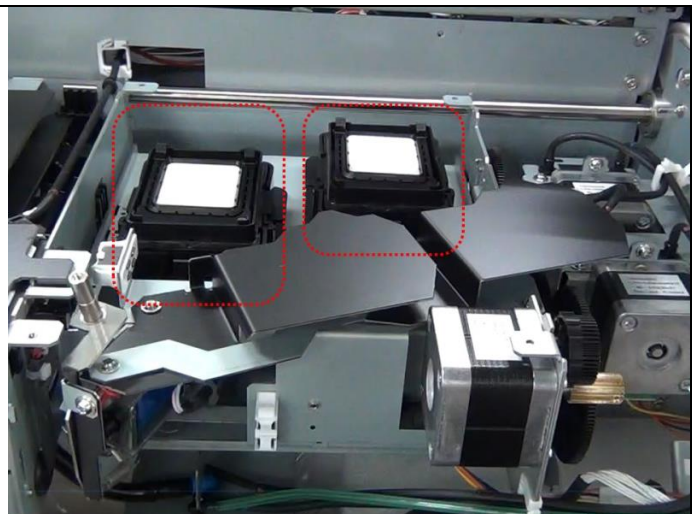
Step 47 / 65

Attach the magnet.



Step 48 / 65

Install the two print head caps. If it is difficult to insert the caps, apply a small amount of alcohol to the inserts.



Step 49 / 65

Attach all the removed covers.



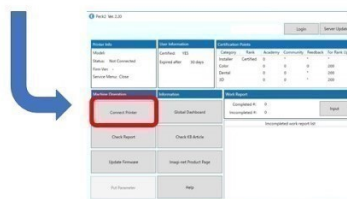
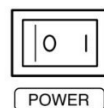
Step 50 / 65

Attach the power cable and turn on the main power supply.



Step 51 / 65

Turn on the power and enter service mode with Peck2.



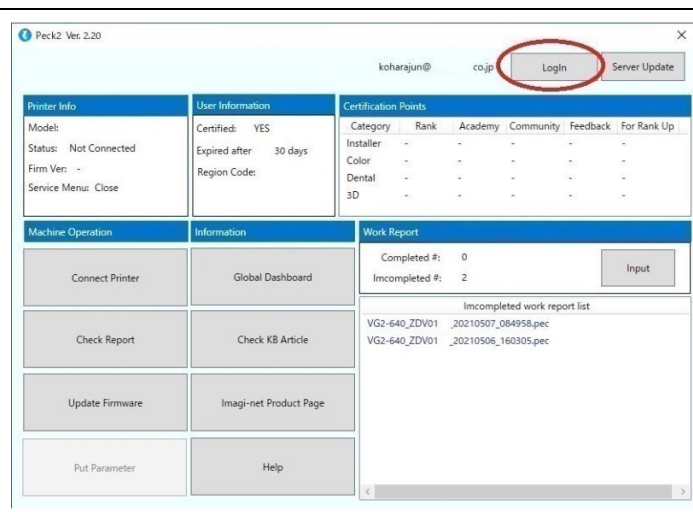
Step 52 / 65

Detail1: Start Peck2.



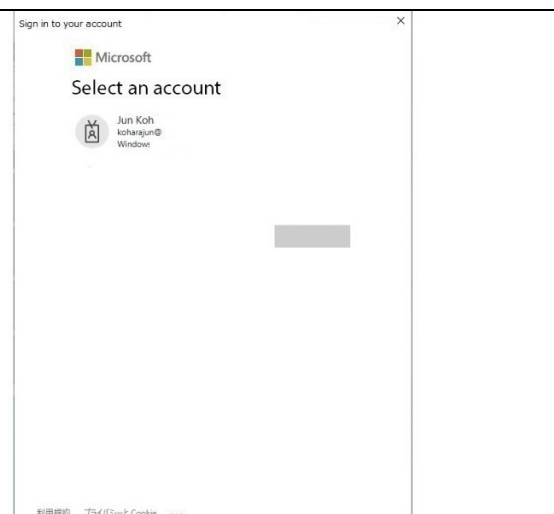
Step 53 / 65

Detail2: Click on the [Login] button.



Step 54 / 65

Detail3: Login with your Imagi-net ID.



Step 55 / 65

Detail4: Click the [Connect Printer] button.

Peck2 Ver 2.20

koharjun@ .co.jp Login Server Update

Printer Info	User Information	Certification Points
Model: VG2-640_ZDV01	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: Not Connected	Expired after: 30 days	Installer Certified 0 * * *
Firm Ver: -	Region Code:	Color 0 0 0 200
Service Menu: Close		Dental 0 0 * 200
		3D 0 0 * 200

Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0
Check Report	Check KB Article	Incompleted #: 2
Update Firmware	Imagi-net Product Page	Input
Put Parameter	Help	

Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Step 56 / 65

Detail5: Enter the IP address of the printer you wish to connect to.

Peck2 Ver 2.20

koharjun@ .co.jp Login Server Update

Printer Info	User Information	Certification Points
Model: VG2-640_ZDV01	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: Not Connected	Expired after: 30 days	Installer Certified 0 * * *
Firm Ver: -	Region Code:	Color 0 0 0 200
Service Menu: Close		Dental 0 0 * 200
		3D 0 0 * 200

Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0
Check Report	Check KB Article	Incompleted #: 2
Update Firmware	Imagi-net Product Page	Input
Put Parameter	Help	

Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Step 57 / 65

Detail6: When the printer is connected, the printer information will be displayed in [Printer Info].

Peck2 Ver 2.20

koharjun@ .co.jp Login Server Update

Printer Info	User Information	Certification Points
Model: VG2-640_ZDV01	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: UnSetup	Expired after: 30 days	Installer Certified 0 * * *
Firm Ver: 2.00	Region Code:	Color 0 0 0 200
Service Menu: Open		Dental 0 0 * 200
		3D 0 0 * 200

Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0
Check Report	Check KB Article	Incompleted #: 2
Update Firmware	Imagi-net Product Page	Input
Put Parameter	Help	

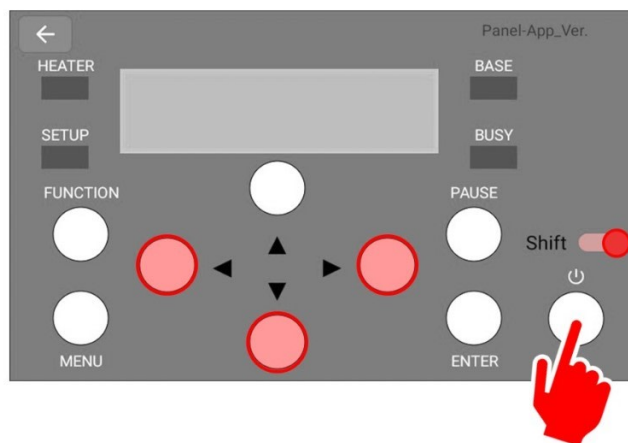
Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

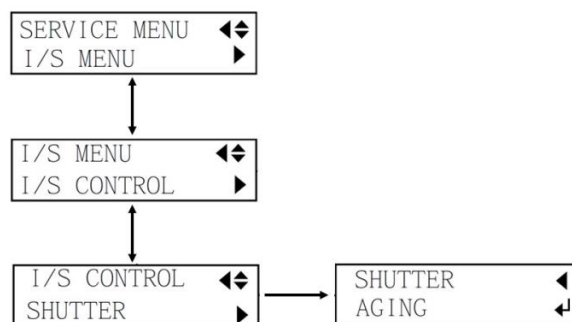
Step 58 / 65

Detail7: Press [Shift] > [□]+[□]+[□]+[Sub Power] on the panel to enter the service mode. You can press multiple buttons at the same time by turning the [Shift] button ON.



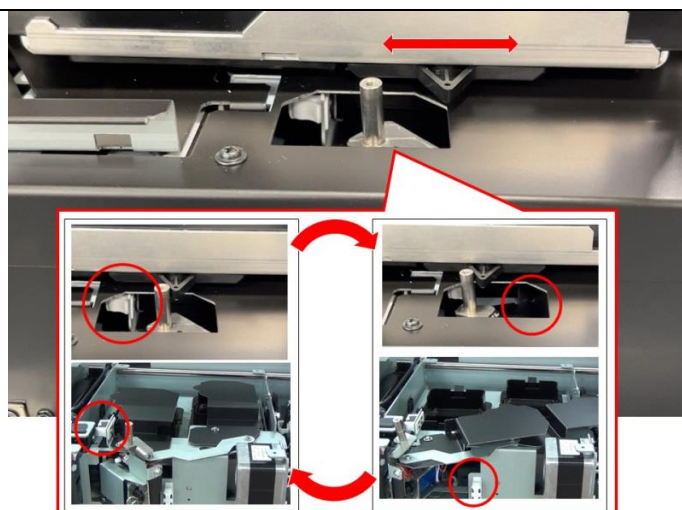
Step 59 / 65

Perform Shutter aging. [MENU] > [SERVICE MENU] > [I/S-MENU] > [I/S CONTROL] > [SHUTTER] > [AGING].



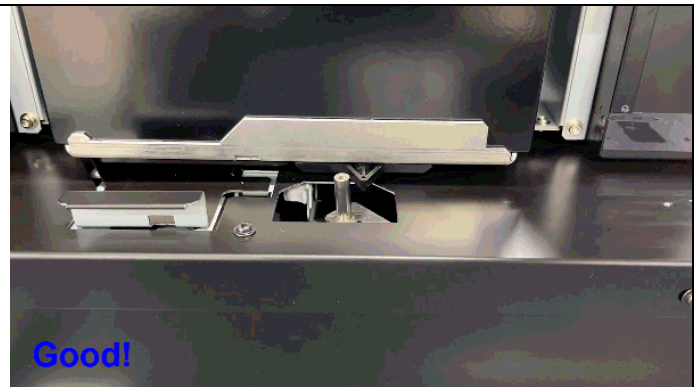
Step 60 / 65

Operate the shutter about 20 times to make sure that there is no abnormality in the shutter movement and that the magnets and sheet metal are in contact securely. For the magnet part that cannot be seen by the cover, check the shutter operation when the magnet leaves the cover.



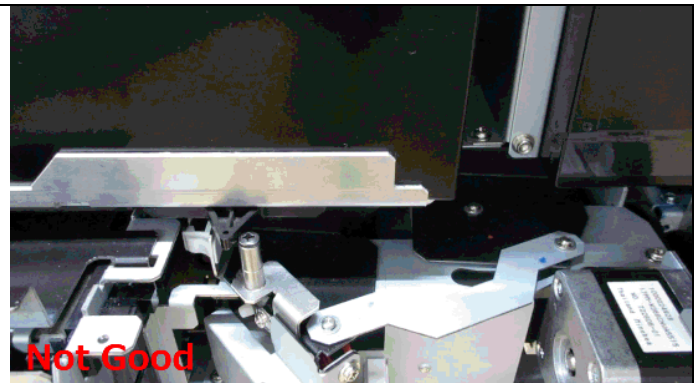
Step 61 / 65

Detail1: Are the magnet and metal plate firmly adhered to each other?



Step 62 / 65

Detail2: Are the magnet and metal plate firmly adhered to each other?



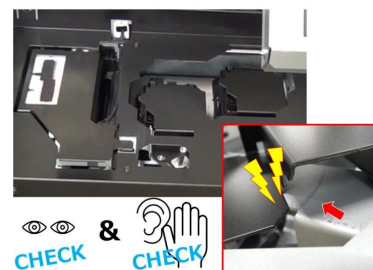
Step 63 / 65

Detail3: Are there any abnormalities such as service call 0500?



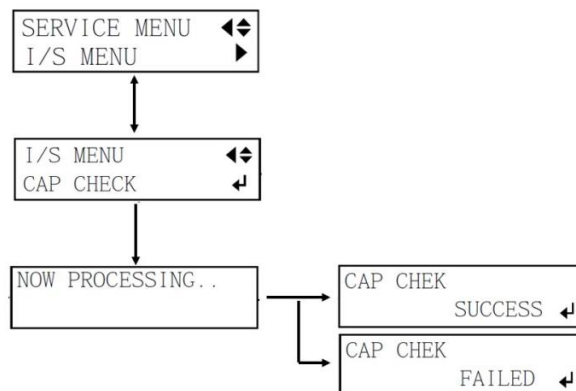
Step 64 / 65

Detail4: Check for any unusual noise or shutter rubbing.



Step 65 / 65

Perform cap check. [MENU] > [SERVICE MENU] > [I/S-MENU] > [CAP CHECK]



LG-645430 Cleaning Liquid Valve Unit Replacement

LG-645430 Cleaning Liquid Valve Unit Replacement Information

Step 1 / 2

General Tools

一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
手袋 Groves	
保護メガネ Goggle	

Step 2 / 2

Typical Work Time

作業時間/Typical work time

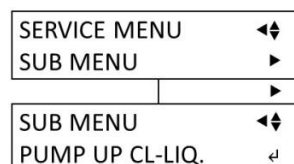
作業内容/Contents of work	時間/Time
洗浄液バルブユニット交換 Cleaning liquid valve unit replacement	18 min.

LG-645430 Cleaning Liquid Valve Unit Replacement

LG-645430 Cleaning Liquid Valve Unit Replacement Procedure

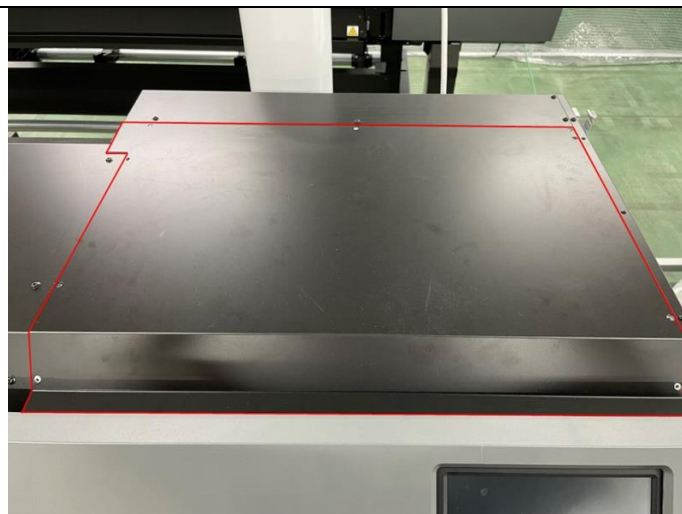
Step 1 / 17

Select [PUMP UP CL-LIQ.] from the SUB MENU in the service menu to discharge the cleaning liquid.



Step 2 / 17

Remove the print head top cover.



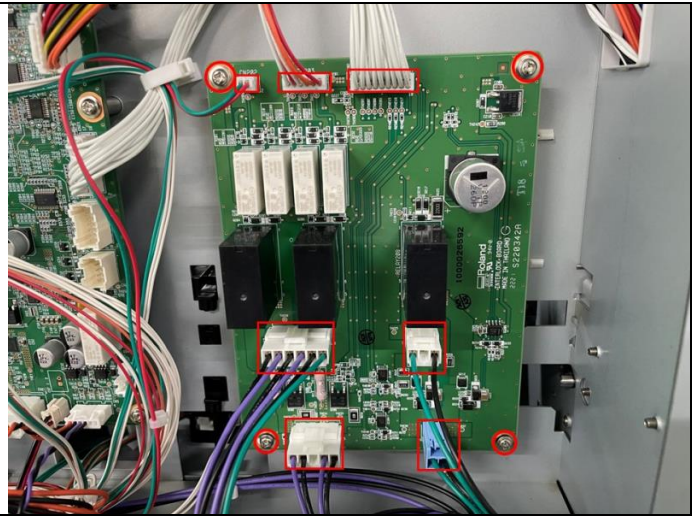
Step 3 / 17

Remove the print head back cover.



Step 4 / 17

Remove the connectors and four screws connected to the interlock board and remove the interlock board.



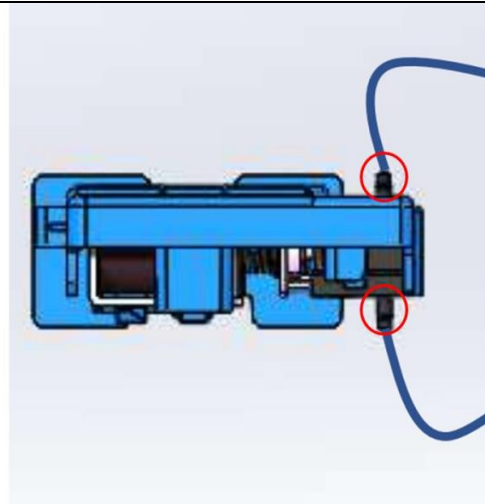
Step 5 / 17

Remove the two tubes connected to the valve. *The lower tube is connected to the opposite side of the upper tube.



Step 6 / 17

Detail1: Front view



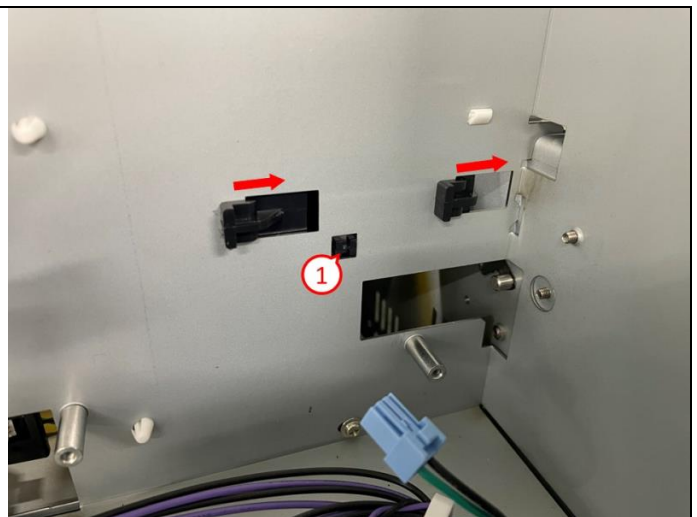
Step 7 / 17

Remove the connector connected to the solenoid.



Step 8 / 17

Remove the unit by sliding it out while pushing in the 1. snap fit shown in the image.



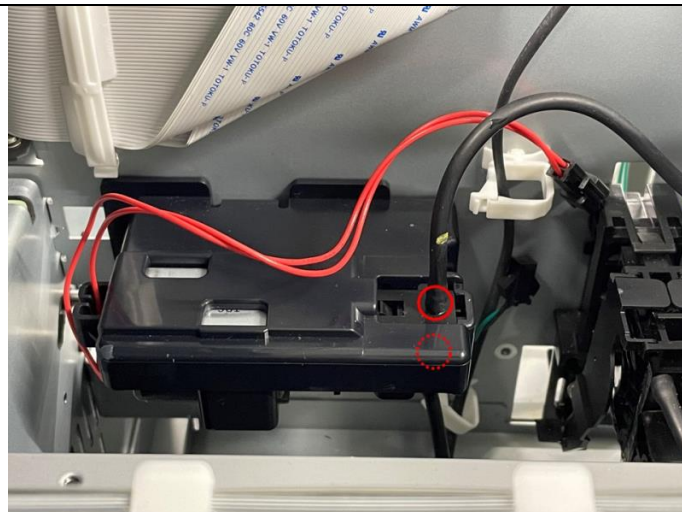
Step 9 / 17

Detail1: Unit removed



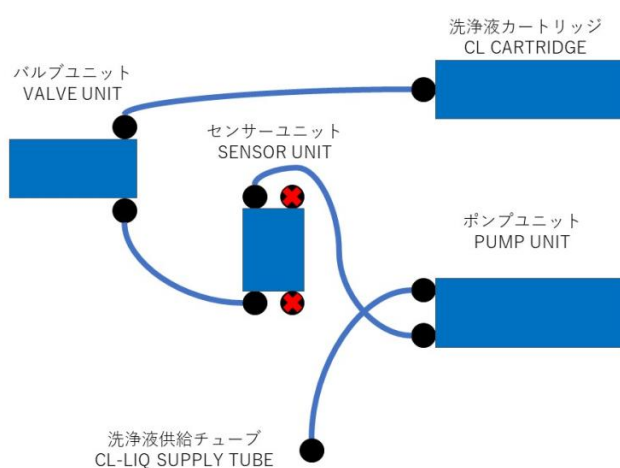
Step 10 / 17

Connect the tube that was disconnected.
Do not forget to connect the lower tube as well.



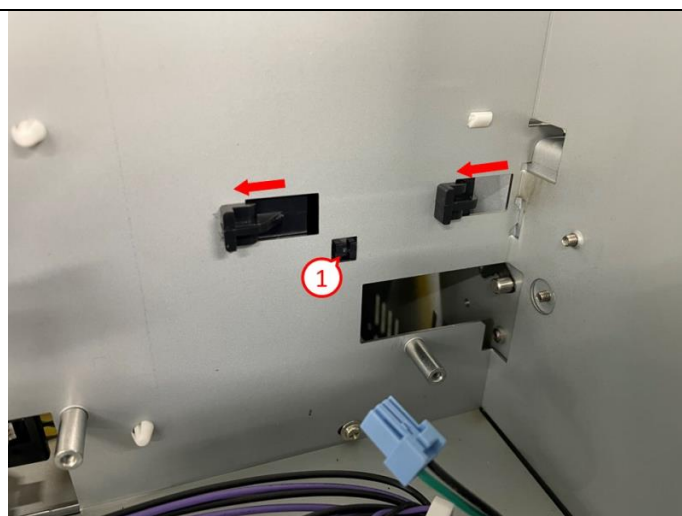
Step 11 / 17

Detail1: Tube routing diagram



Step 12 / 17

Hook the claws, 1. Slide the snap-fit until it snaps into place, and attach the new part.



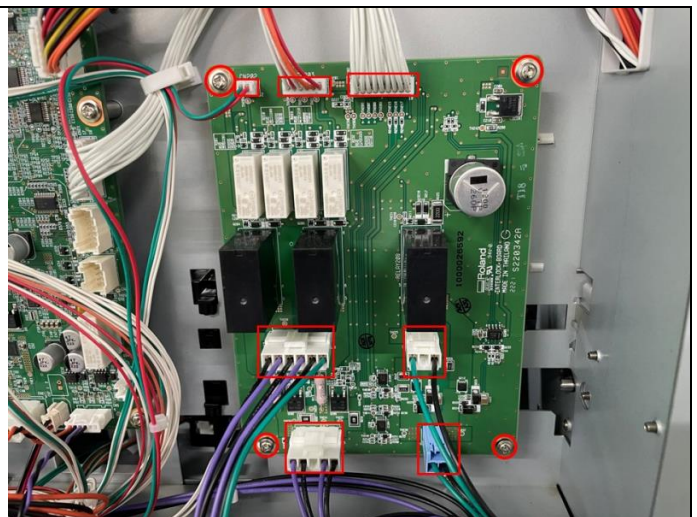
Step 13 / 17

Connect the solenoid connector.



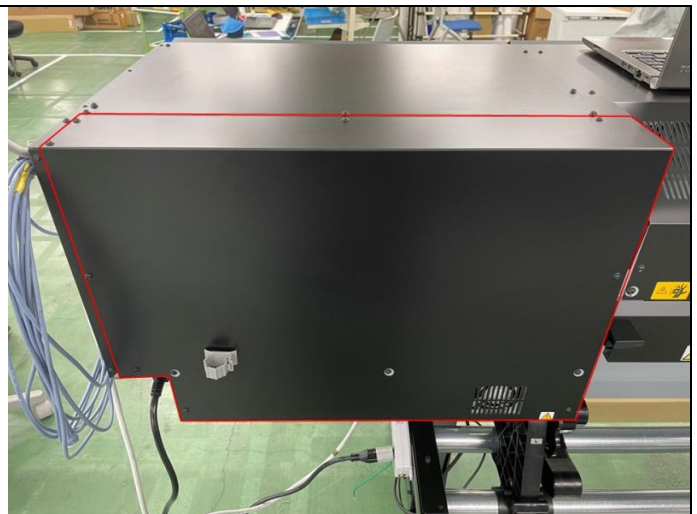
Step 14 / 17

Attach the four screws on the interlock board and plug the connectors.



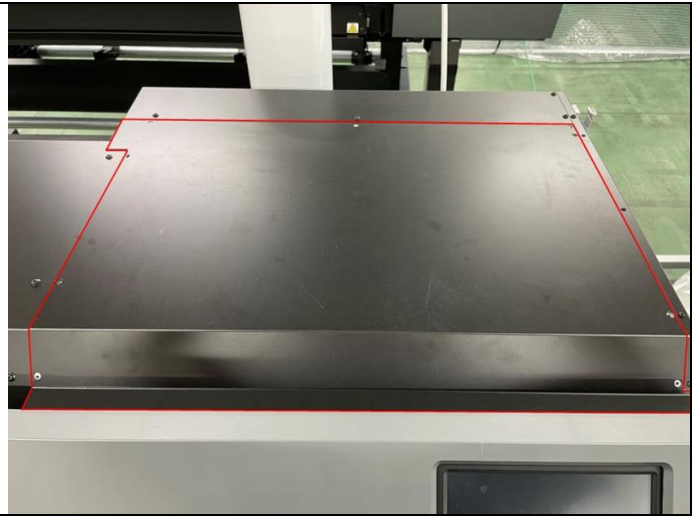
Step 15 / 17

Attach the cover on the back of the print head.



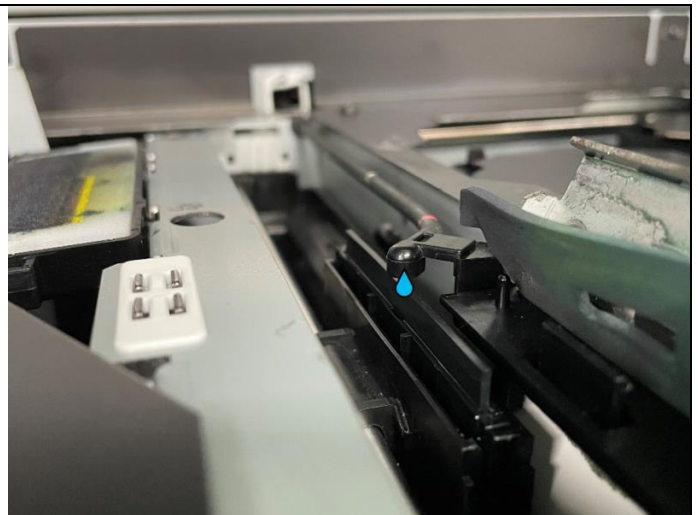
Step 16 / 17

Attach the cover on the top of the print head.



Step 17 / 17

Turn on sub power in user mode. Then visually check that the cleaning liquid supply tube is filled with cleaning liquid.



LG-645430 Cleaning Liquid Sensor Unit Replacement

LG-645430 Cleaning Liquid Sensor Unit Replacement Information

Step 1 / 2

General Tools

一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
手袋 Groves	
保護メガネ Goggle	

Step 2 / 2

Typical Work Time

作業時間/Typical work time

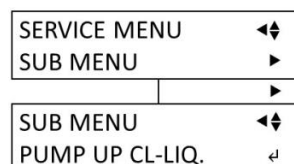
作業内容/Contents of work	時間/Time
洗浄液センサーユニット交換 Cleaning liquid sensor unit replacement	18 min.

LG-645430 Cleaning Liquid Sensor Unit Replacement

LG-645430 Cleaning Liquid Sensor Unit Replacement Procedure

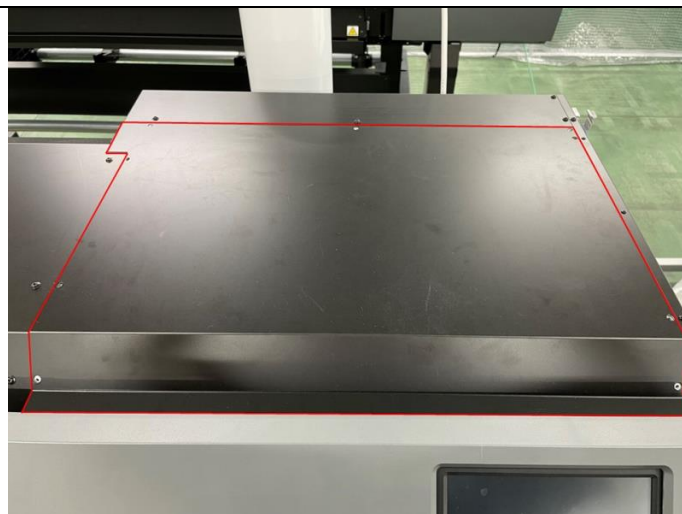
Step 1 / 14

Select [PUMP UP CL-LIQ.] from the SUB MENU in the service menu to discharge the cleaning liquid.



Step 2 / 14

Remove the cover on the top of the print head.



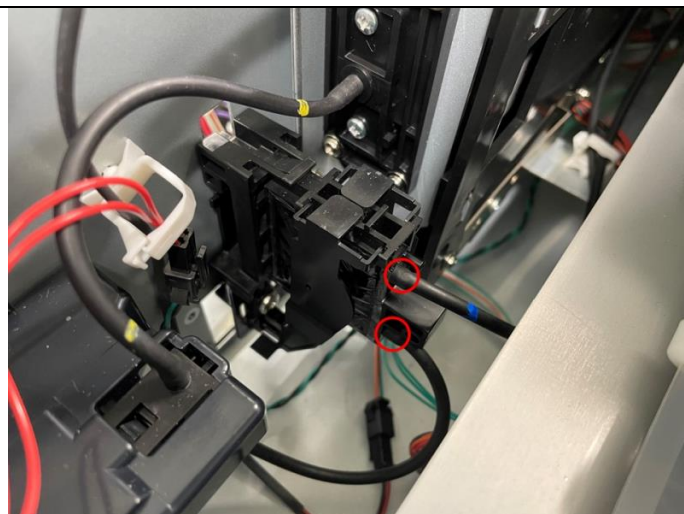
Step 3 / 14

Remove the cover on the back of the print head.



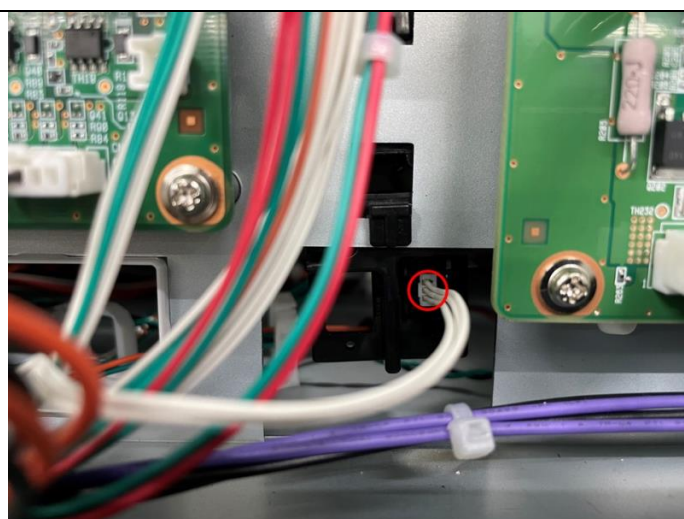
Step 4 / 14

Remove the two tubes connected to the sensor unit.



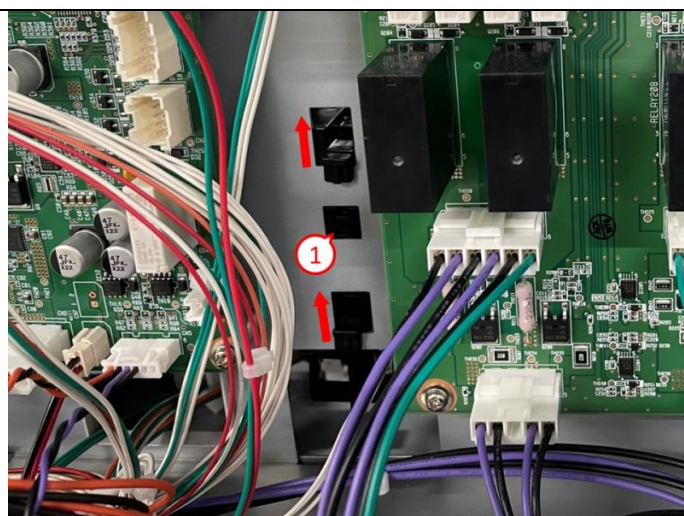
Step 5 / 14

Remove the connector connected to the sensor unit from the rear side of the machine.



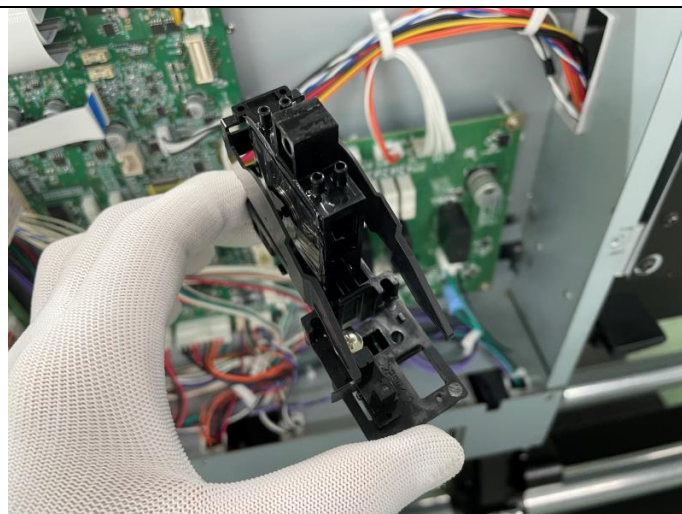
Step 6 / 14

Remove the unit by sliding it out while pushing in the 1. snap fit shown in the image.



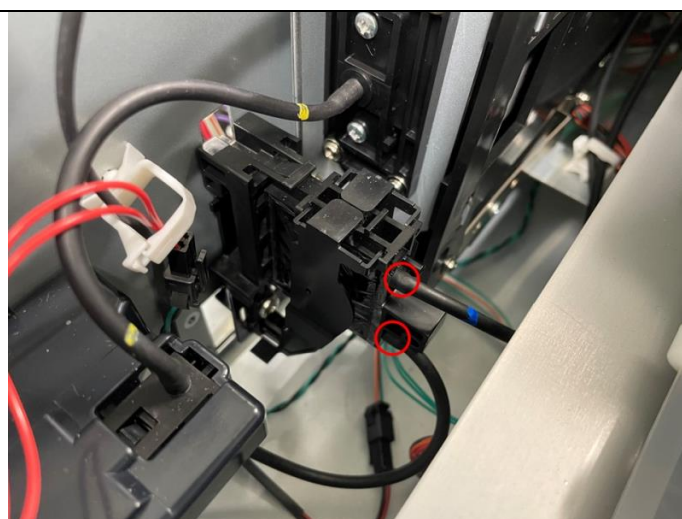
Step 7 / 14

Detail1: Unit removed



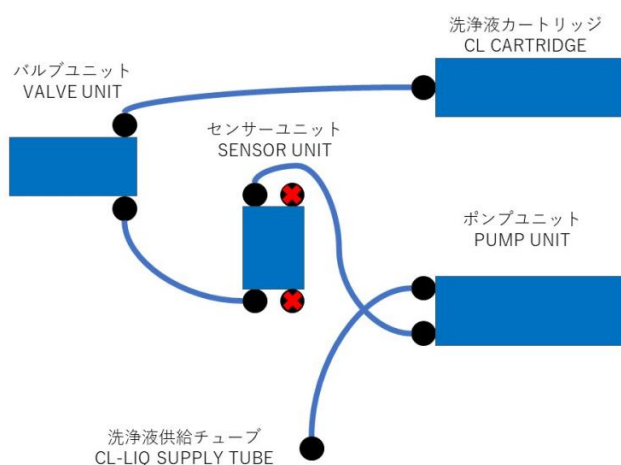
Step 8 / 14

Connect the tube that was disconnected to the two points on the new unit. Install with care, as the sensor mechanism is installed on one side only.



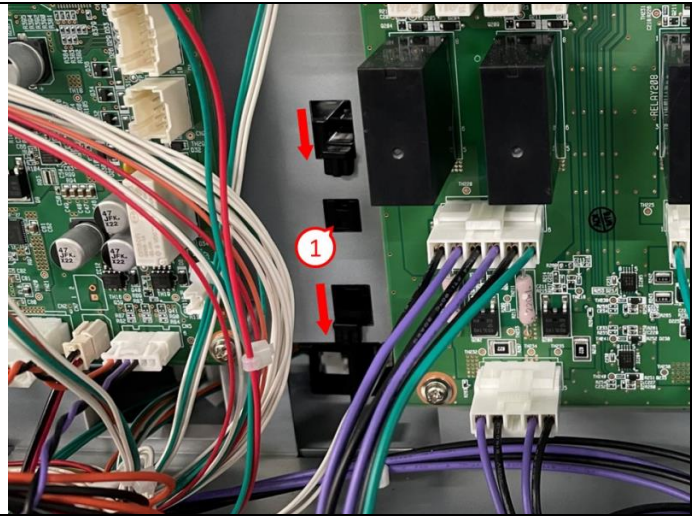
Step 9 / 14

Detail1: Tube routing diagram



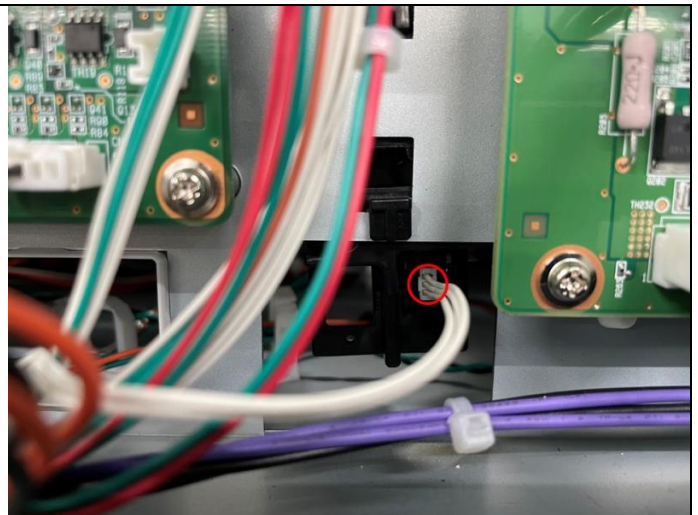
Step 10 / 14

Hook the claws, 1. Slide the snap fit until it snaps into place, and install the new unit.



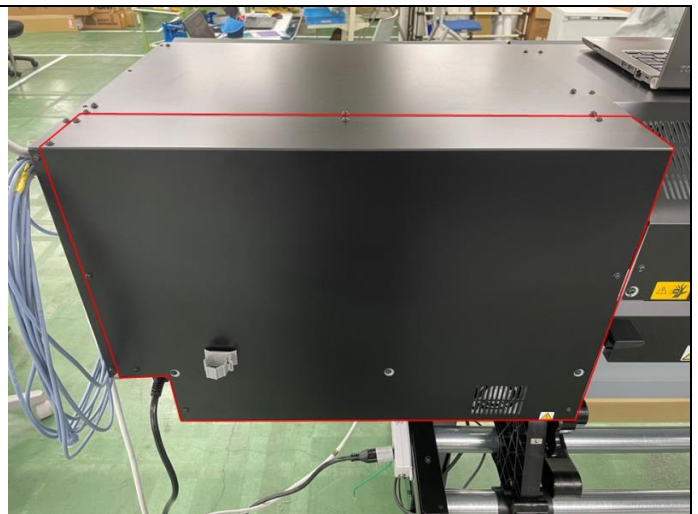
Step 11 / 14

Attach the connector to the sensor unit.



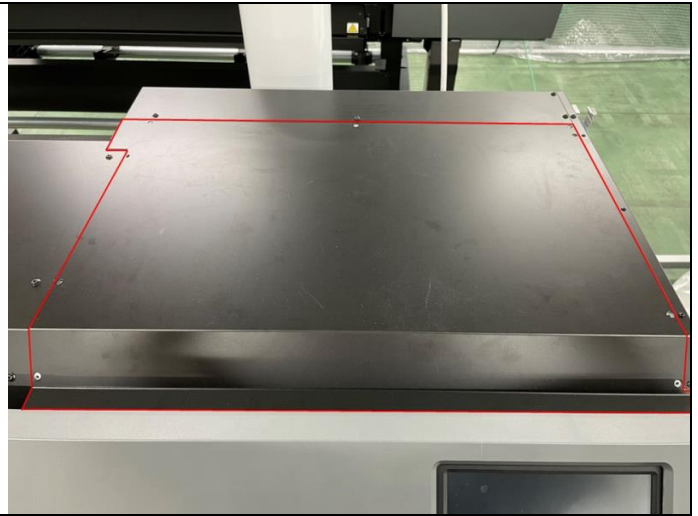
Step 12 / 14

Attach the print head back cover.



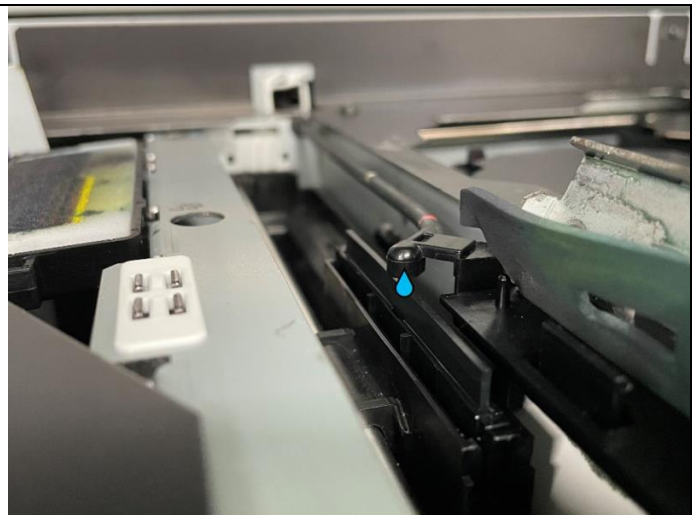
Step 13 / 14

Attach the print head top cover.



Step 14 / 14

Turn on sub power in user mode. Then visually check that the cleaning liquid supply tube is filled with cleaning liquid.



LG-645430 Cleaning Liquid Pump Unit Replacement

LG-645430 Cleaning Liquid Pump Unit Replacement Information

Step 1 / 2

General Tools

一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
手袋 Groves	
保護メガネ Goggle	

Step 2 / 2

Typical Work Time

作業時間/Typical work time

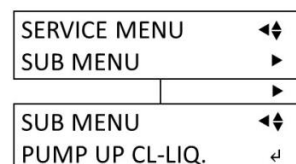
作業内容/Contents of work	時間/Time
洗浄液ポンプユニット交換 Cleaning liquid pump unit replacement	20 min.

LG-645430 Cleaning Liquid Pump Unit Replacement

LG-645430 Cleaning Liquid Pump Unit Replacement Procedure

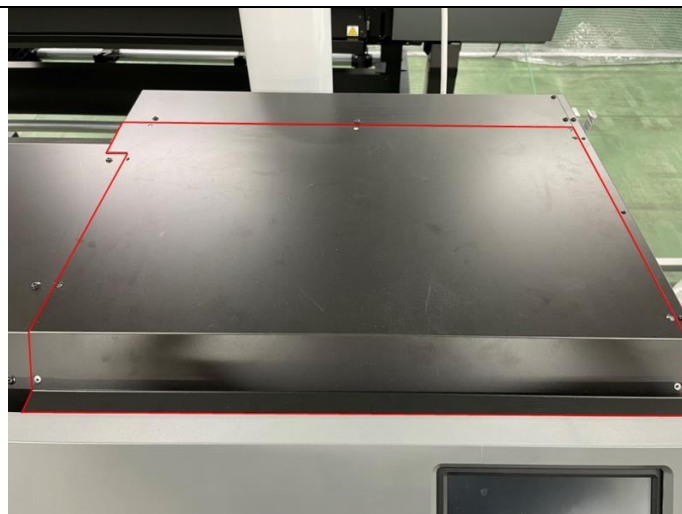
Step 1 / 23

Select [PUMP UP CL-LIQ.] from the SUB MENU in the service menu to discharge the cleaning liquid.



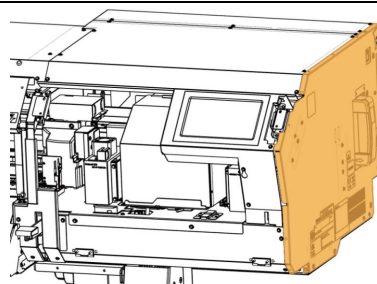
Step 2 / 23

Remove the cover on the top of the print head.



Step 3 / 23

Remove the cover on the right side cover of the machine.



Step 4 / 23

Detail1: There is a connector connected to the panel, so remove it before removing the cover.



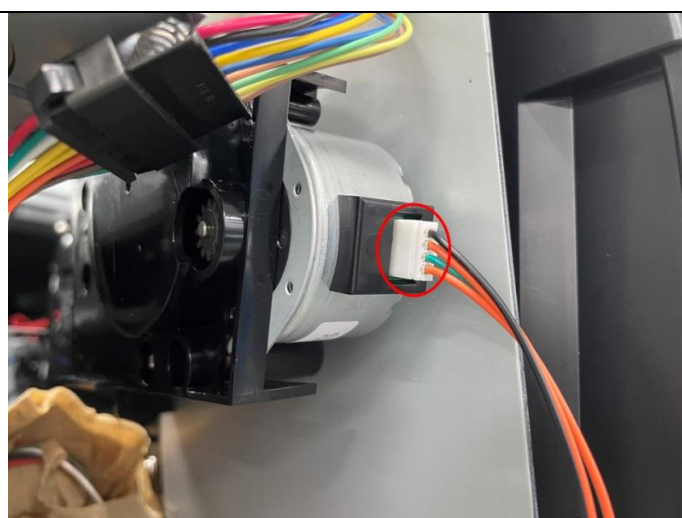
Step 5 / 23

Remove the tubes connected to the pump.



Step 6 / 23

Disconnect the pump motor connector.



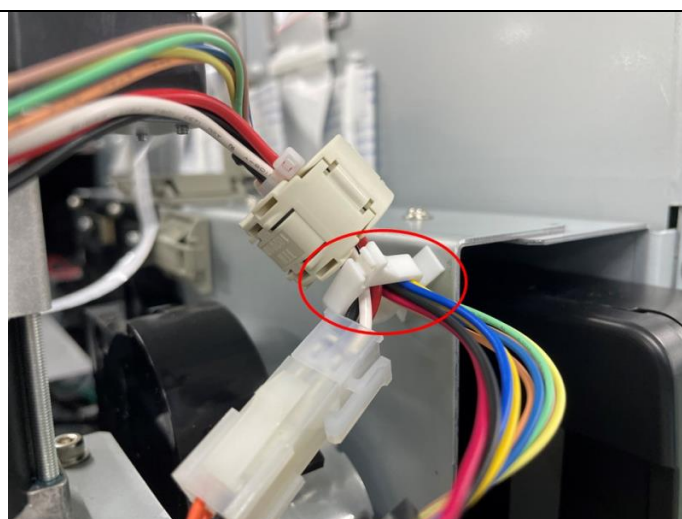
Step 7 / 23

Detail1: Remove the cable from the clamp attached to the pump unit fixing sheet metal.



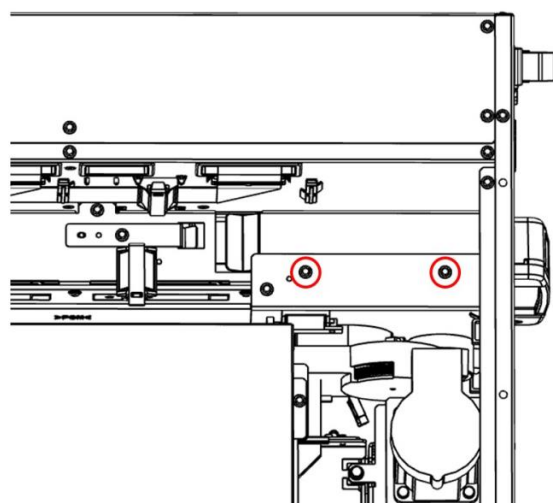
Step 8 / 23

Detail2: Remove the cable from the clamp attached to the pump unit fixing sheet metal.



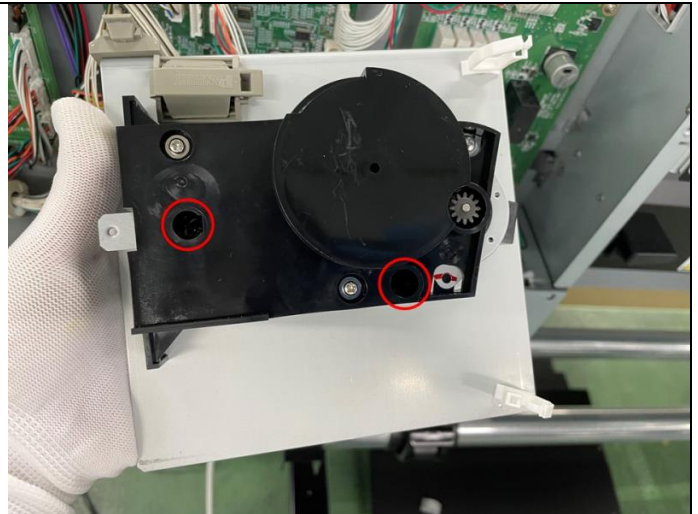
Step 9 / 23

Remove the two screws and remove the unit together with the pump unit fixing sheet metal.



Step 10 / 23

Remove the pump unit from the pump unit fixing sheet metal.



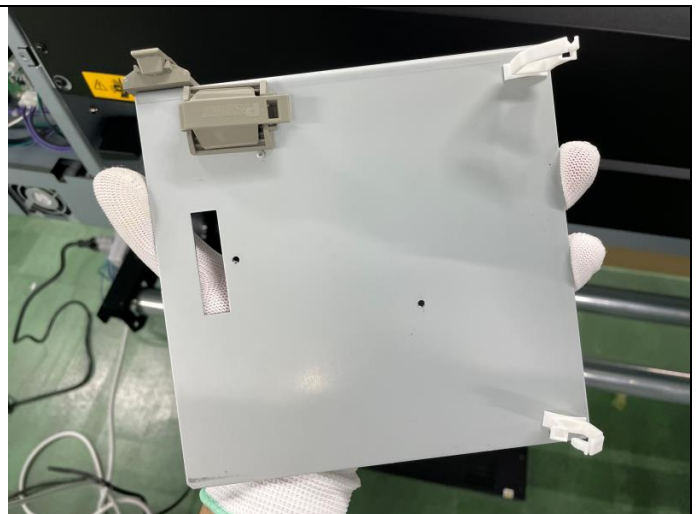
Step 11 / 23

Detail1: Pump unit removed



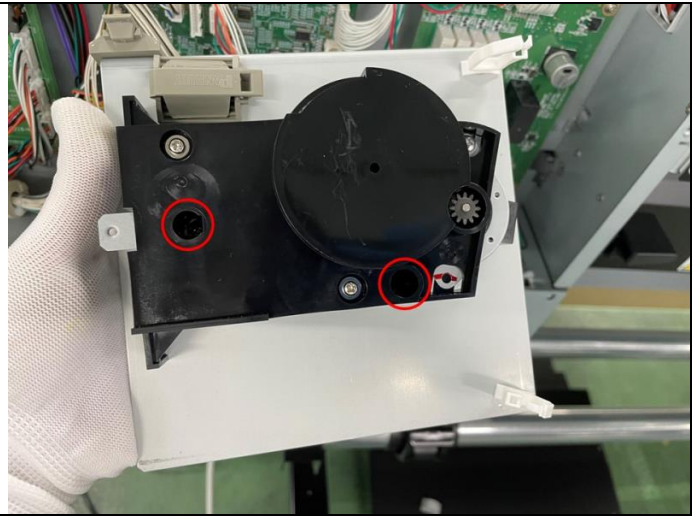
Step 12 / 23

Detail2: Pump unit fixing sheet metal removed



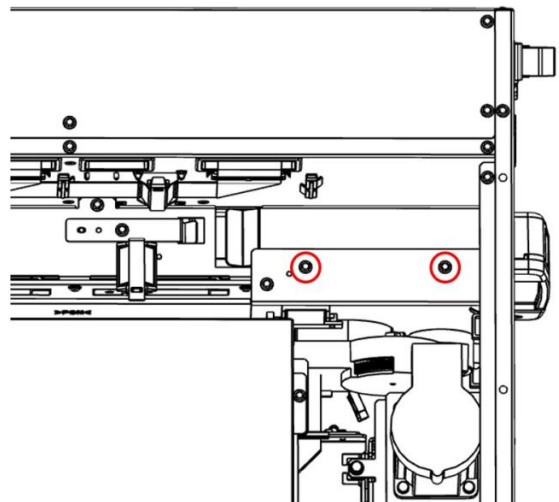
Step 13 / 23

Mount the new pump unit on the fixing sheet metal.



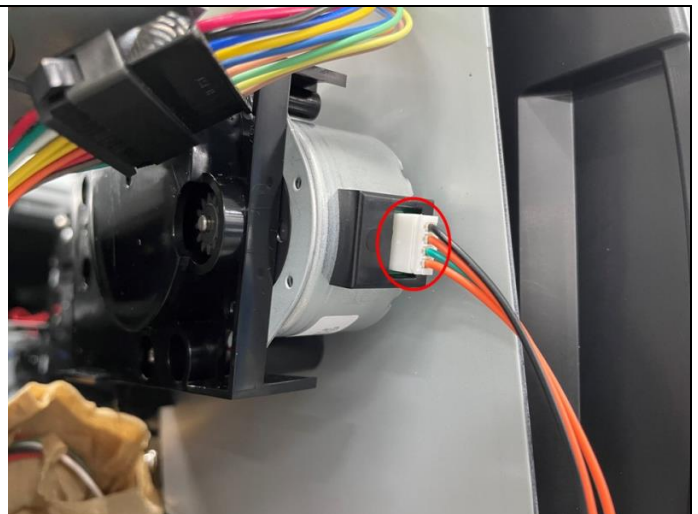
Step 14 / 23

Mount the pump unit fixing sheet metal.



Step 15 / 23

Detail1: Attach the pump motor connector.



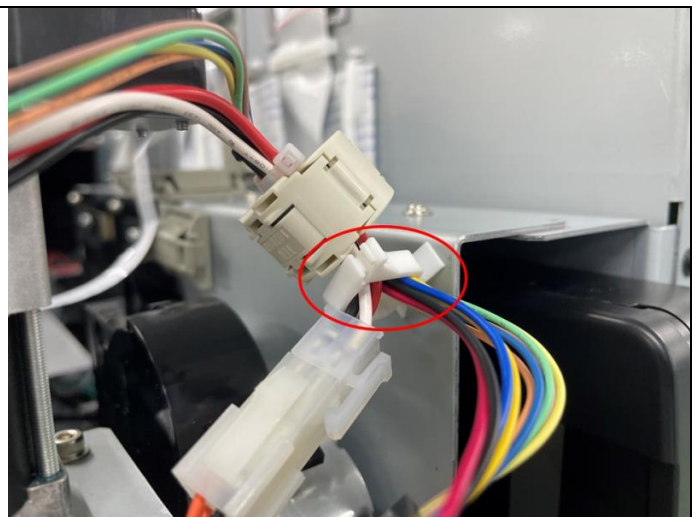
Step 16 / 23

Detail2: Bundle the cables with the clamp attached to the pump unit fixing sheet metal.



Step 17 / 23

Bundle the cables with the clamp attached to the pump unit fixing sheet metal.



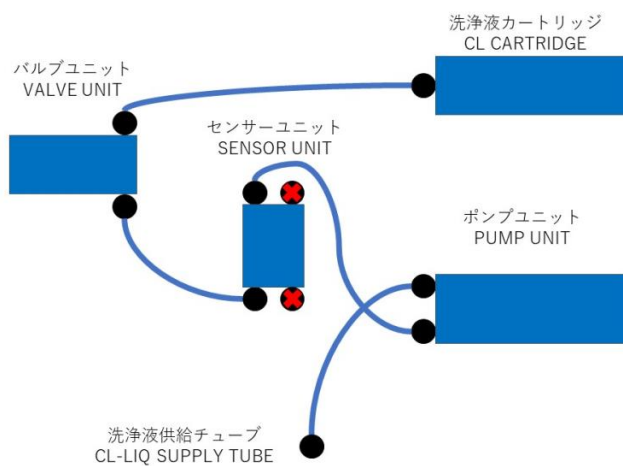
Step 18 / 23

Connect the removed tubes.



Step 19 / 23

Detail1: Tube routing diagram



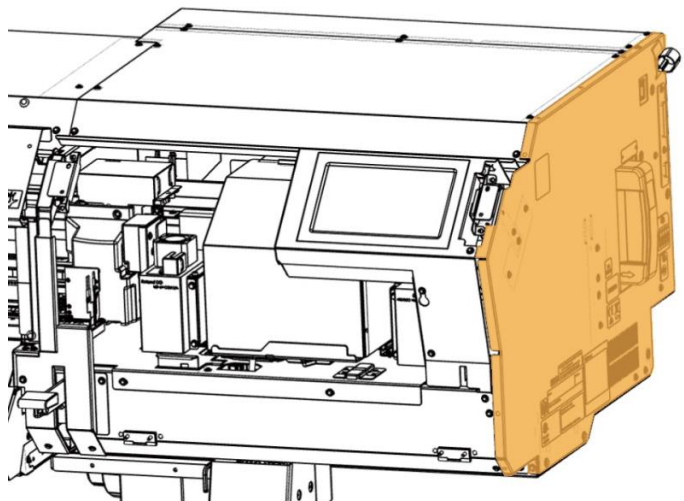
Step 20 / 23

Attach the panel connector.



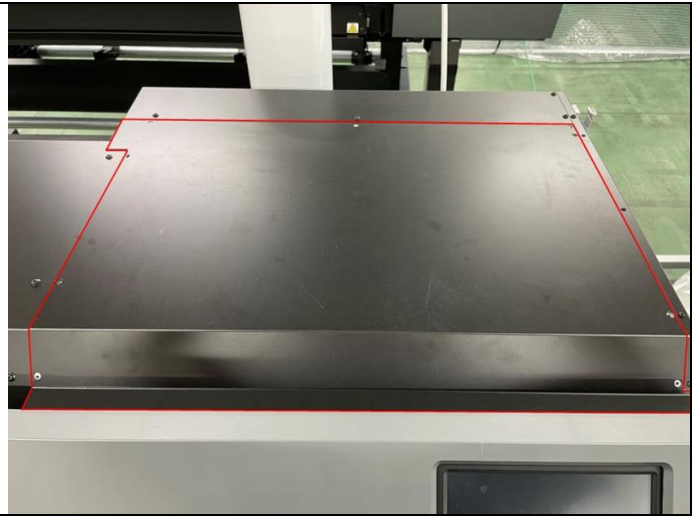
Step 21 / 23

Attach the right side cover of the machine.



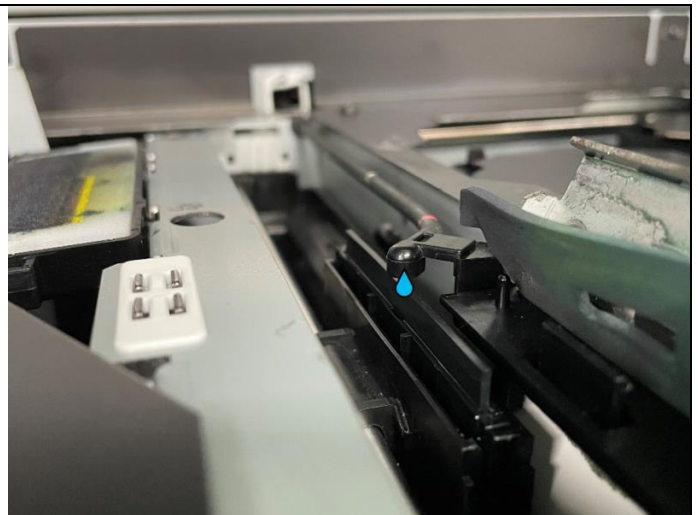
Step 22 / 23

Attach the cover on the top of the print head.



Step 23 / 23

Turn on sub power in user mode. Then visually check that the cleaning liquid supply tube is filled with cleaning liquid.



LG-645430 Tool Carriage Replacement

LG-645430 Tool Carriage Replacement

Information

Step 1 / 6

Necessary tools

一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
六角レンチ2.5mm 2.5 mm hexagonal wrench	

Step 2 / 6

Special tools

特殊治具/Special Tools

None	
------	---

Step 3 / 6

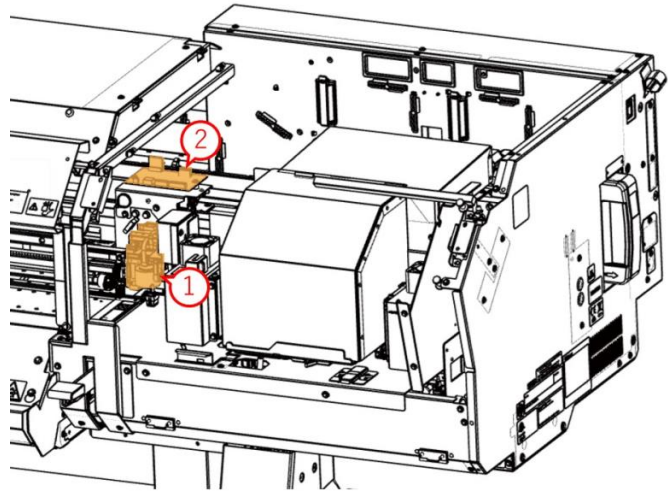
Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
ツールキャリア交換 Tool carriage replacement	10 min.

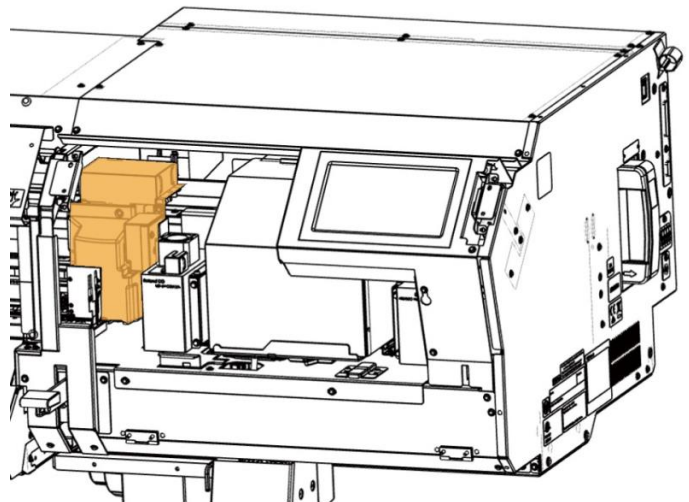
Step 4 / 6

1.Tool carriage, 2.Tool carriage board



Step 5 / 6

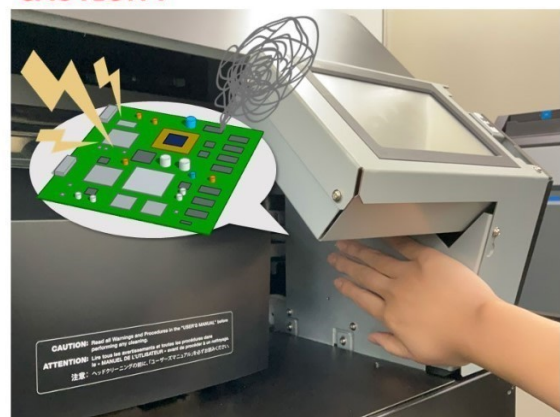
Cover That Needs to Be Removed



Step 6 / 6

To prevent static damage, discharge static electricity from your body before you touch any of the electronic parts. You can do so by touching an unpainted metal surface.

CAUTION !



LG-645430 Tool Carriage Replacement

LG-645430 Tool Carriage Replacement Procedure

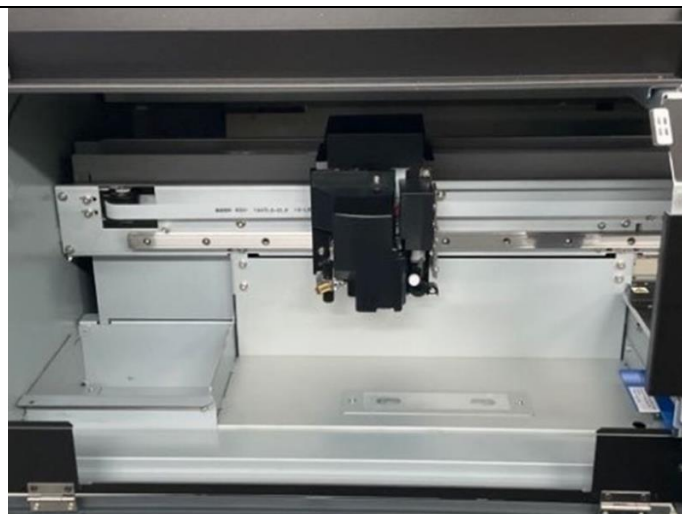
Step 1 / 16

Turn off the main power switch and unplug the power cord.



Step 2 / 16

Move the cut carriage to the maintenance space.



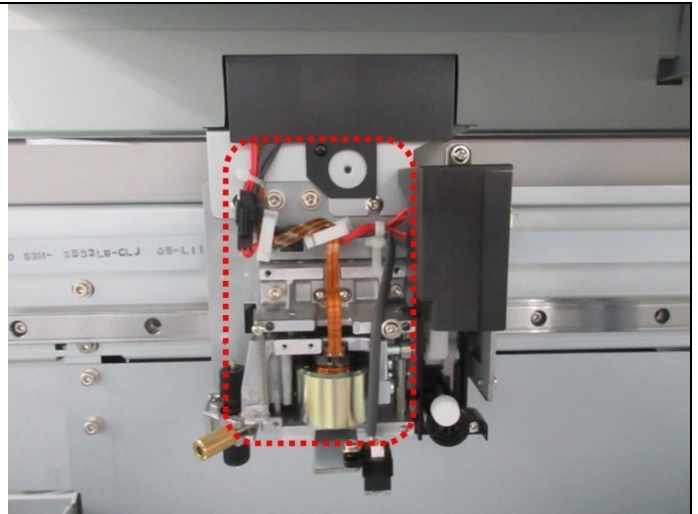
Step 3 / 16

Remove the cutter holder.



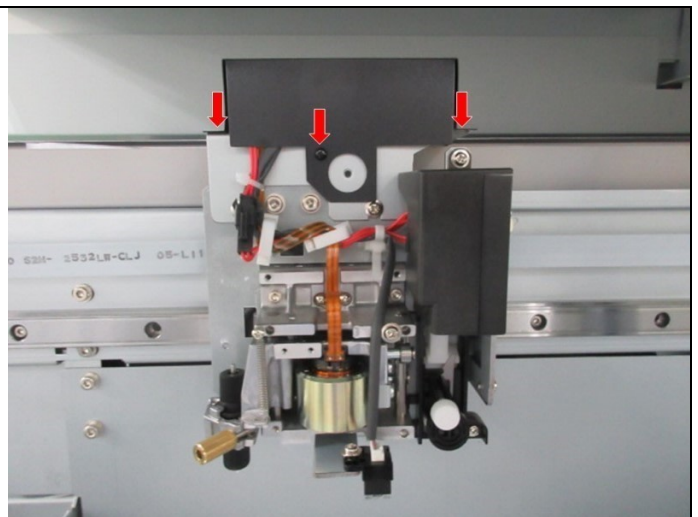
Step 4 / 16

Remove the tool carriage cover.



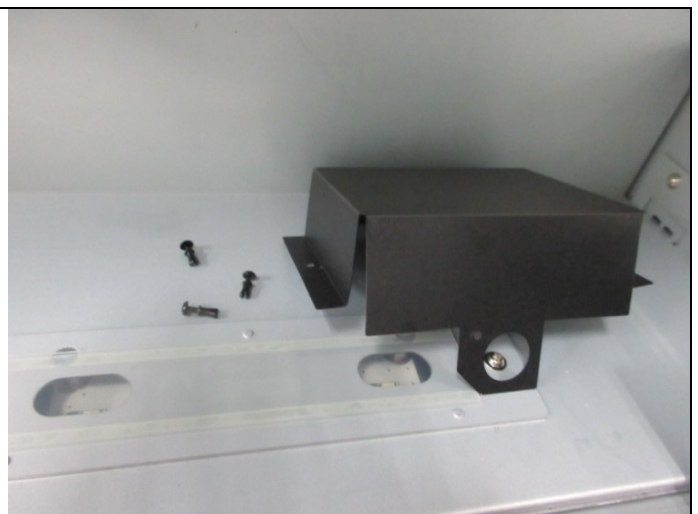
Step 5 / 16

Detail1: Remove the cut carriage board cover.



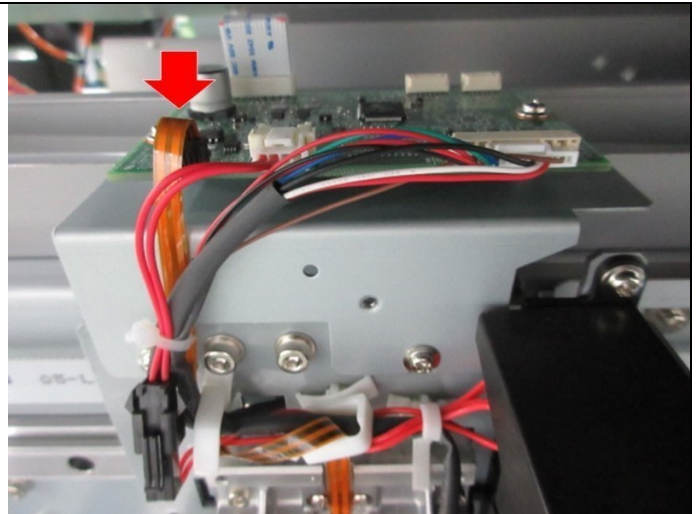
Step 6 / 16

This cover is attached with three rivets.



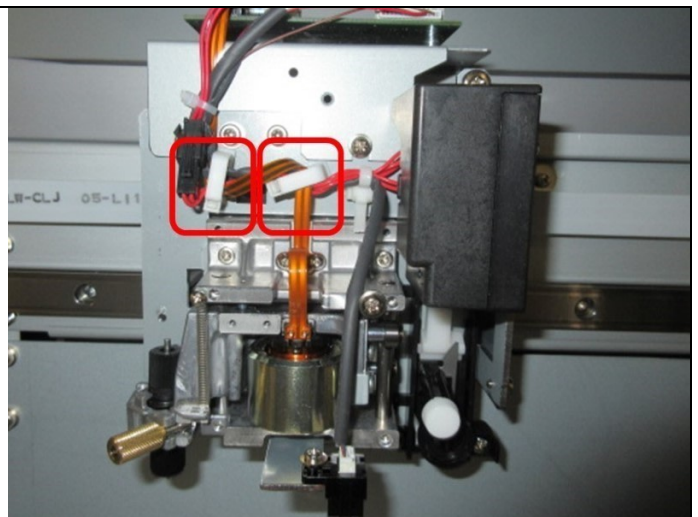
Step 7 / 16

Remove the flexible cable from the tool carriage board.



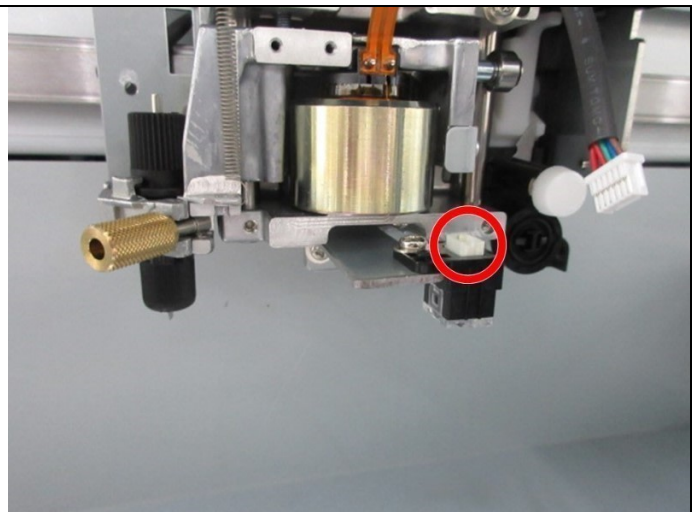
Step 8 / 16

Remove two clamps and remove the flexible cable.



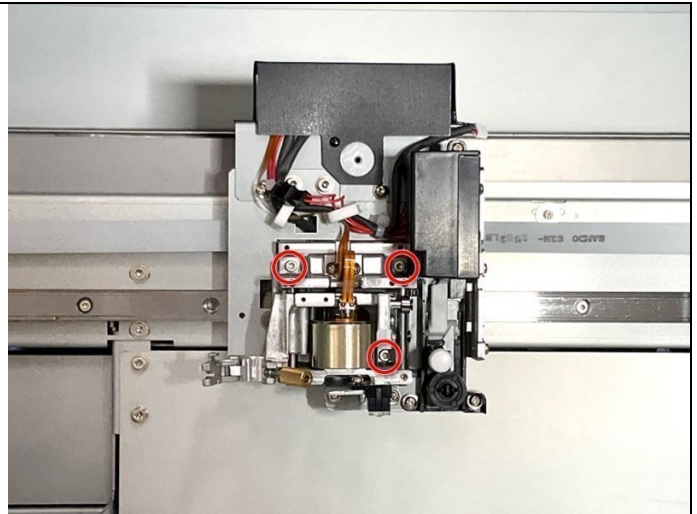
Step 9 / 16

Remove the connector of the color sensor.



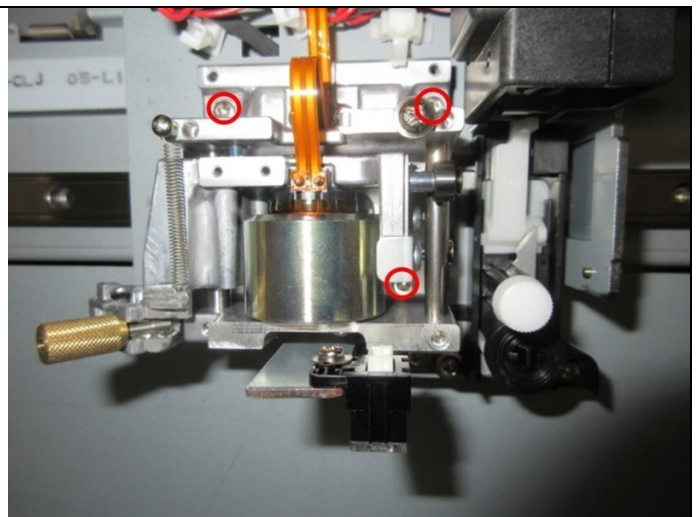
Step 10 / 16

Remove three screws and remove the tool carriage.



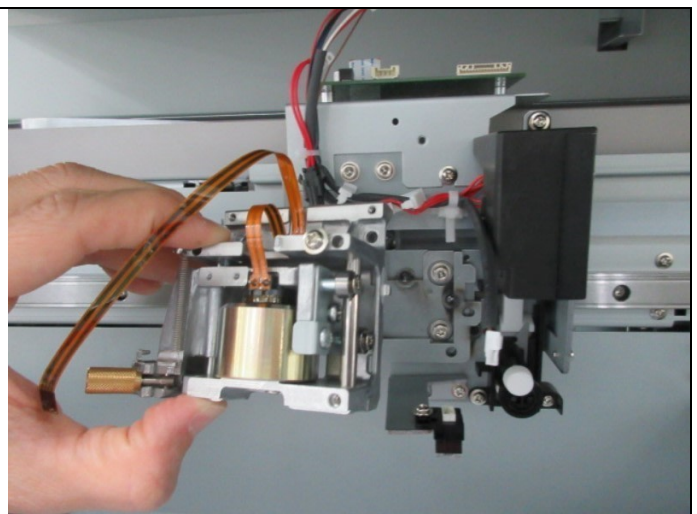
Step 11 / 16

Detail1: Remove three screws.



Step 12 / 16

Detail2: Remove the carriage.



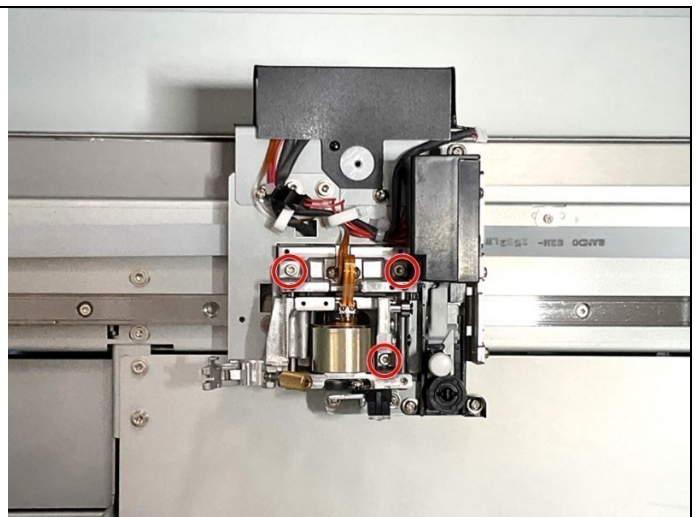
Step 13 / 16

Detail3: After the carriage is removed



Step 14 / 16

Attach the new tool carriage.



Step 15 / 16

Attach the removed parts.



1. Limit Position Initialization
2. Tool Height Adjustment
3. Tool Pressure Adjustment
4. Crop/cut position adjustment [CUTTING MENU] > [CROP-CUT ADJ.]
5. Print/Cut position Adjustment [CUTTING MENU] > [PRINT-CUT ADJ.].



次の手順

キャリッジロック位置設定
ツール高さ調整
筆圧調整
クロープカット位置調整
プリント&カット位置調整

Next Step

Carriage Lock Position Setting
Tool Height Adjustment
Tool Pressure Adjustment
Crop-Cut Position Adjustment
Print-Cut Position Adjustment

LG-645430 Multi Sensor Replacement

LG-645430 Multi Sensor Replacement Information

Step 1 / 4

Necessary tools (1)

一般ツール/General Tool

プラスドライバー No.1 No.1 Phillips screwdriver	
プラスドライバー No.2 No.2 Phillips screwdriver	
テープ Tape	

Step 2 / 4

Necessary tools (2)

一般ツール/General Tool

六角レンチ 2.5mm 2.5mm hexagonal wrench	
六角レンチ 5.0mm 5.0mm hexagonal wrench	

Step 3 / 4

Typical Work Time

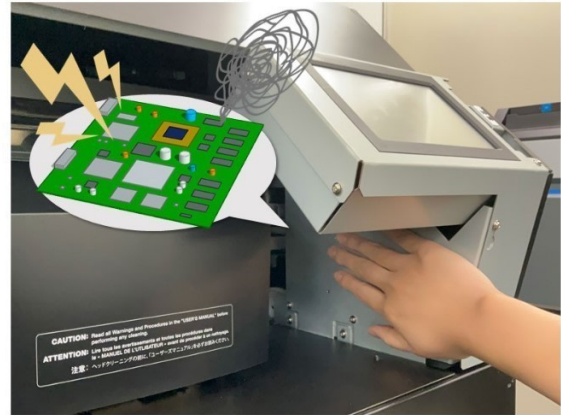
作業時間/Typical work time

作業内容/Contents of work	時間/Time
マルチセンサー交換 Multi sensor Replacement	15 min.

Step 4 / 4

To prevent static damage, discharge static electricity from your body before you touch any of the electronic parts. You can do so by touching an unpainted metal surface.

CAUTION !



LG-645430 Multi Sensor Replacement

LG-645430 Multi Sensor Replacement Procedure

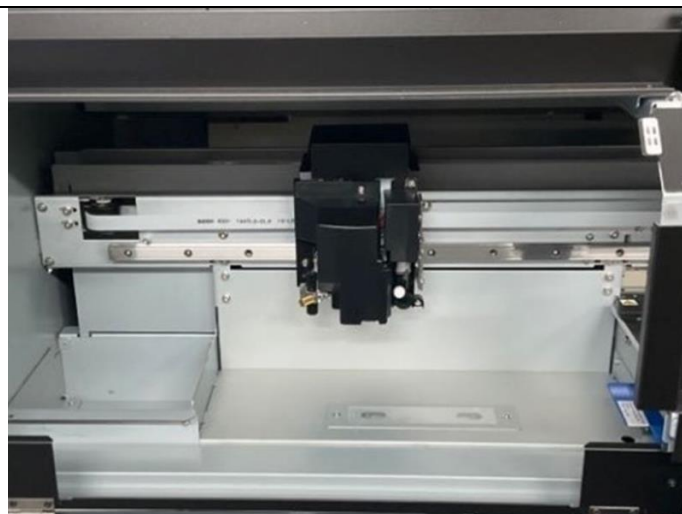
Step 1 / 18

Turn on the main power switch and unplug the power cord.



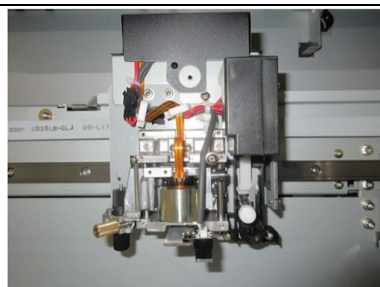
Step 2 / 18

Disconnect the cut carriage and move it to the manual cleaning position.



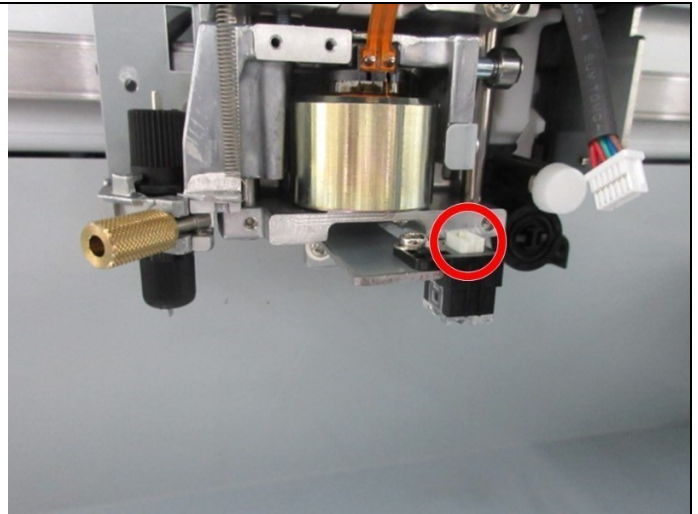
Step 3 / 18

Remove the cut carriage cover.



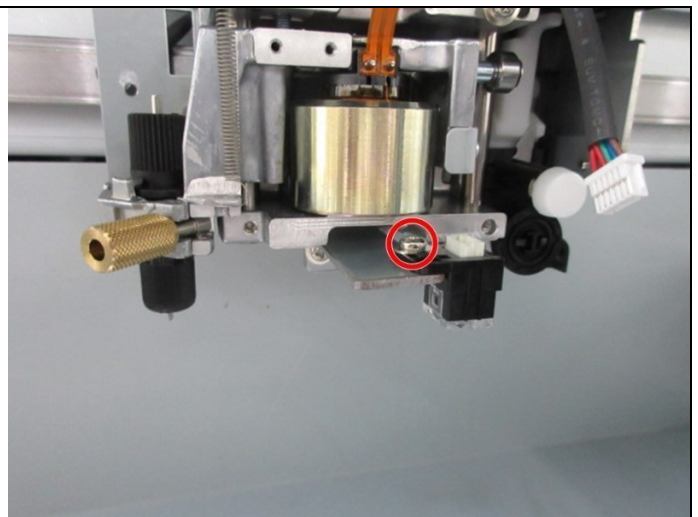
Step 4 / 18

Unplug the connector.



Step 5 / 18

Remove the multi sensor and replace it with a new one.



Step 6 / 18

Move the cut carriage to the right end of the platen.



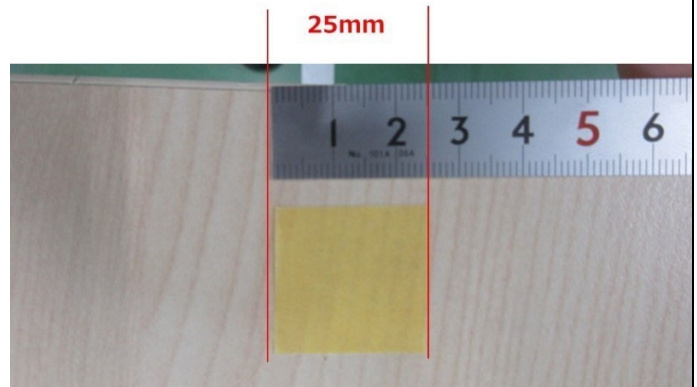
Step 7 / 18

Fasten the hexagonal wrenches 5.0 mm and 2.5 mm with masking tape to make a simple jig 7.7 mm thick. Thickness gauge is also OK.



Step 8 / 18

Detail1: Cut the masking tape into piece of about 25 mm. Note that if the masking tape is too long, the thickness of the tape changes the aiming value.



Step 9 / 18

Detail2: Line up the hexagonal wrenches and put masking tape on the side of the 5.0 mm side.



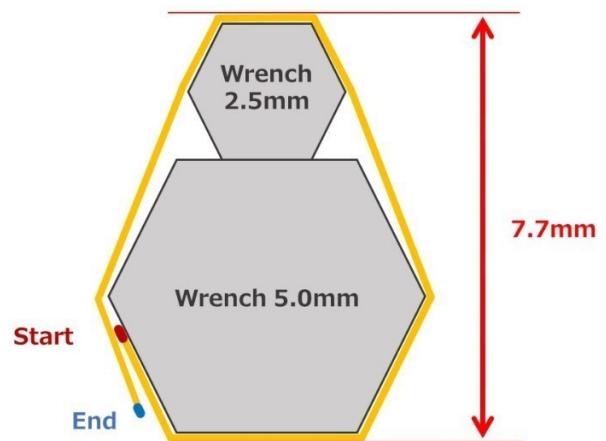
Step 10 / 18

Detail3: Wrap the masking tape around the hexagonal wrenches and putting them together.



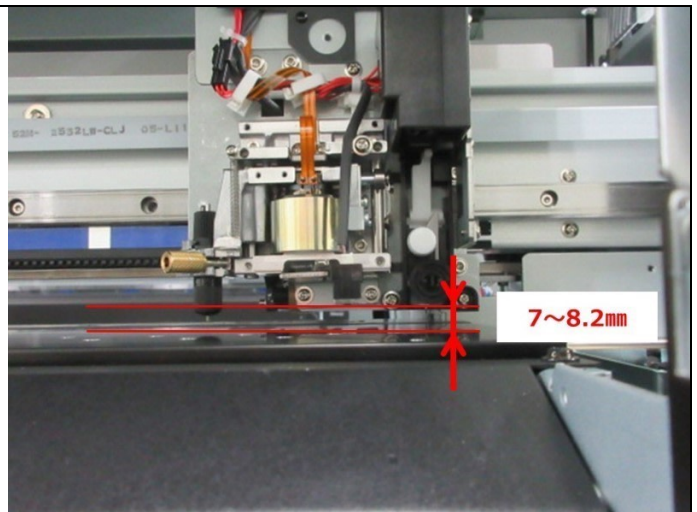
Step 11 / 18

Detail4: Reference



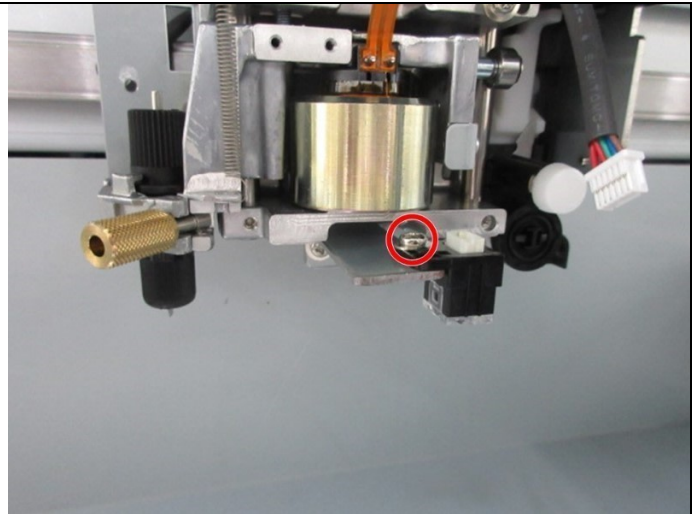
Step 12 / 18

The adjustment range between the platen surface and the sensor surface is 7 mm to 8.2 mm. The sensor needs to be attached parallel to the platen.



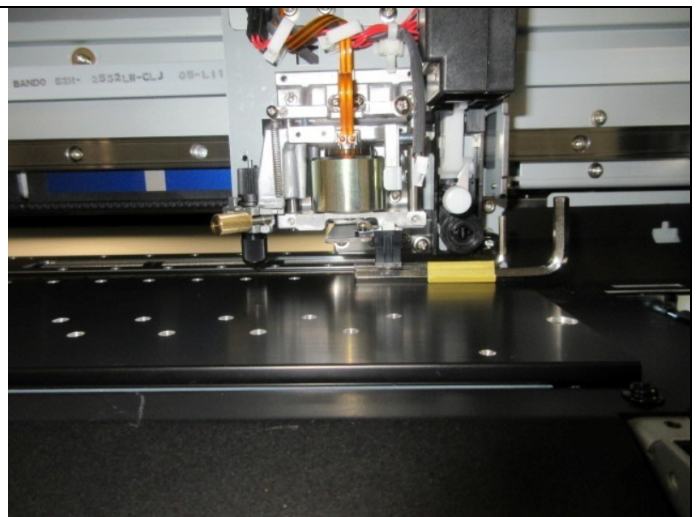
Step 13 / 18

Loosen the screw that holds the sensor in place by about a half turn. If you loosen the screw too much, you will not be able to make the adjustment correctly.



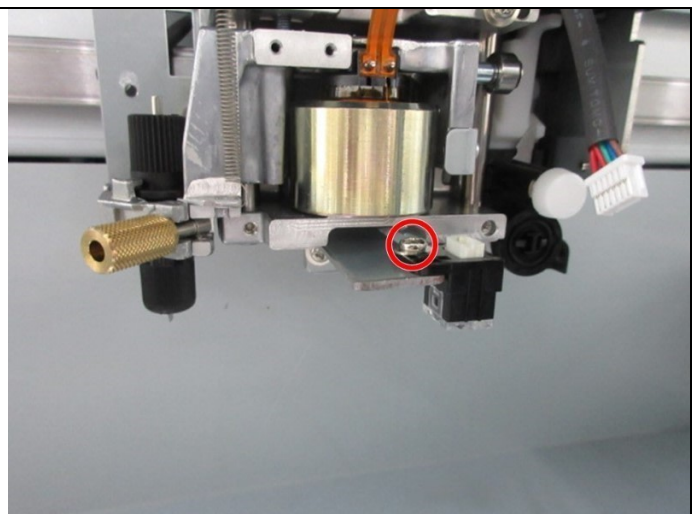
Step 14 / 18

Place a simple jig horizontally under the sensor at the back of the sensor so that the sensor can be mounted parallel to the platen. Apply to the flat part of the sensor, not the convex part.



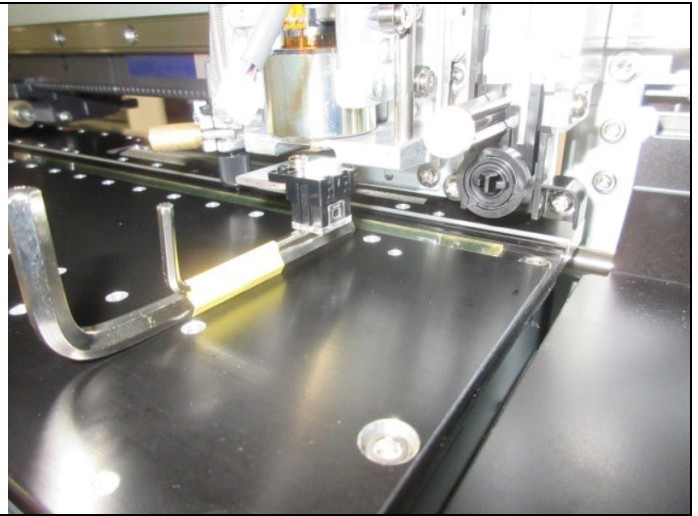
Step 15 / 18

Make sure that the simple jig and sensor do not move, and tighten the screws.



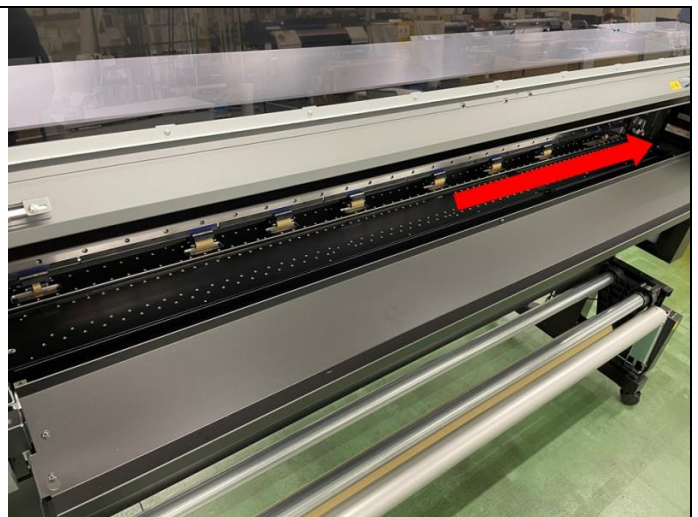
Step 16 / 18

Apply the simple jig from both sides of the sensor and check if it is attached horizontally to the BED.



Step 17 / 18

Attach the removed cover and move the cut carriage to its home position.



Step 18 / 18

Perform Multi sensor Adjustment.



次の手順

マルチセンサー調整

Next Step

Multi Sensor Adjustment

LG-645430 UV Lamp Replacement

LG-645430 UV Lamp Replacement

Information

Step 1 / 2

Necessary Tools

一般ツール/General Tool

プラスドライバー No.2 (130mm以下) No.2 Phillips screwdriver (Length:130mm or less)	
六角レンチ (2.5mm) Hexagonal wrench(2.5mm)	

Step 2 / 2

Typical work time

作業時間/Typical work time

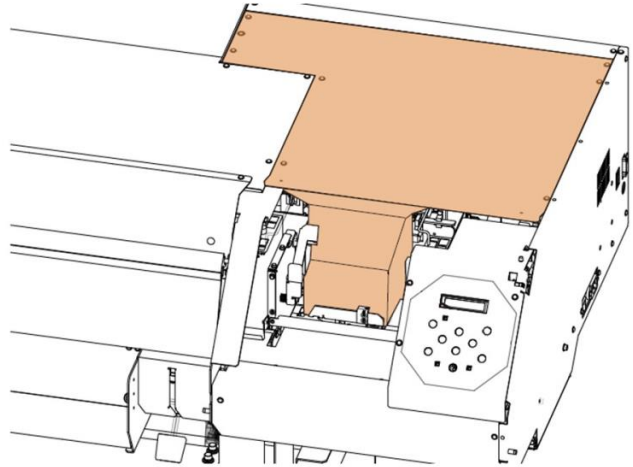
作業内容/Contents of work	時間/Time
UVランプ交換 UV lamp replacement	15 min.

LG-645430 UV Lamp Replacement

LG-645430 UV Lamp Replacement Procedure

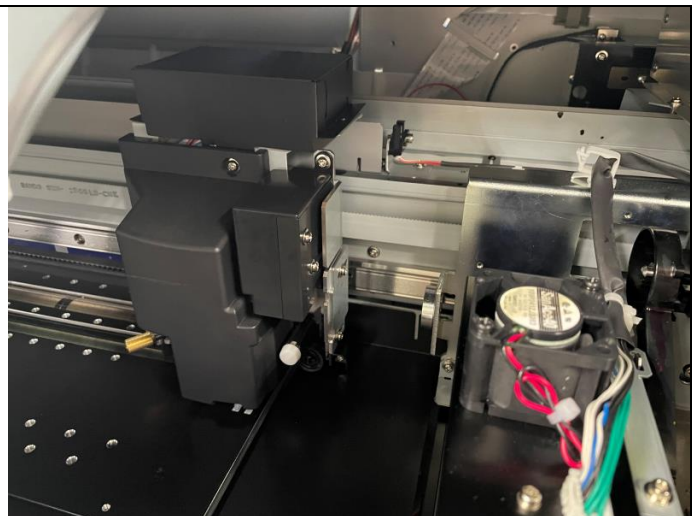
Step 1 / 21

Remove the cover.



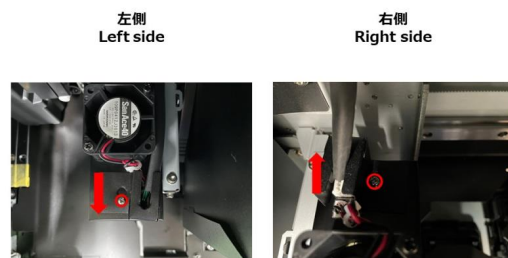
Step 2 / 21

Separate the cut carriage from the print head carriage.



Step 3 / 21

Loosen the screws on the UV lamp connector cover and slide the cover to remove it.



Step 4 / 21

Remove the connectors.

左側
Left side



右側
Right side



Step 5 / 21

Remove the 6 screws and remove the UV lamp.



Step 6 / 21

Detail1: Front side screws

左側
Left side



右側
Right side

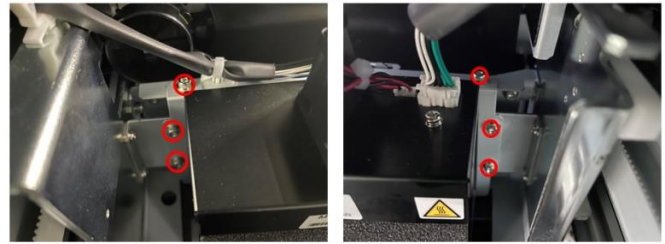


Step 7 / 21

Detail2: Back side screws

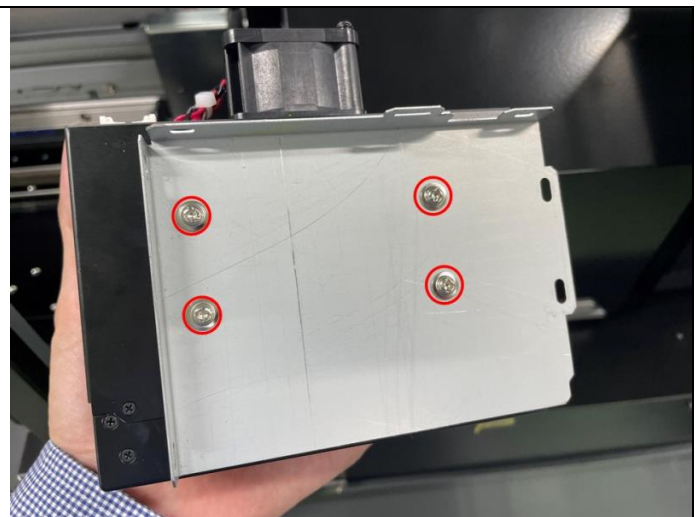
左側
Left side

右側
Right side



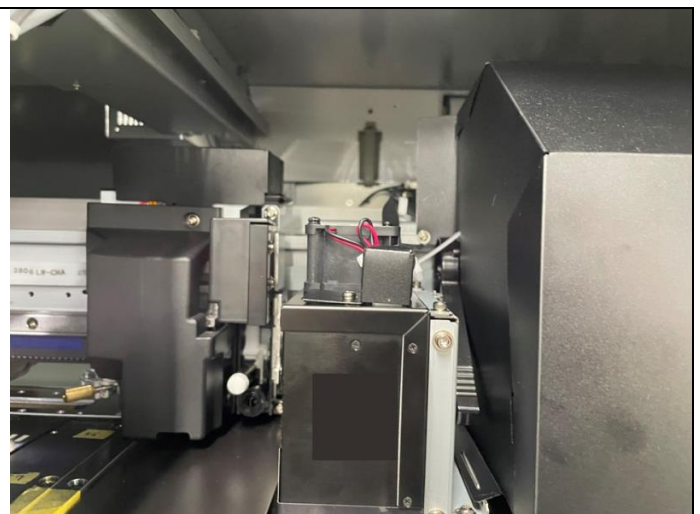
Step 8 / 21

Remove the four screws and remove the plate.



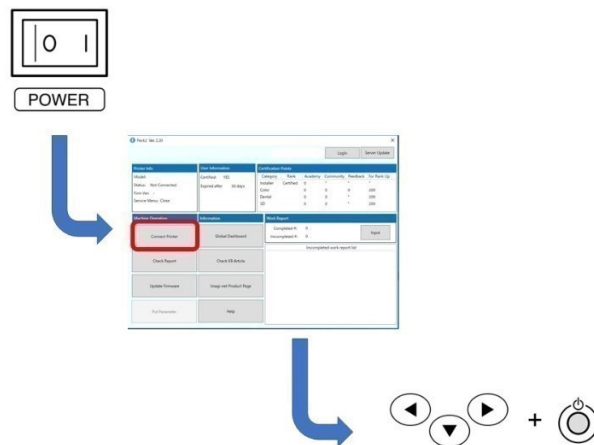
Step 9 / 21

Install the new UV lamp and attach the connectors and connector cover.



Step 10 / 21

Turn on the power and enter the service mode with Peck2.



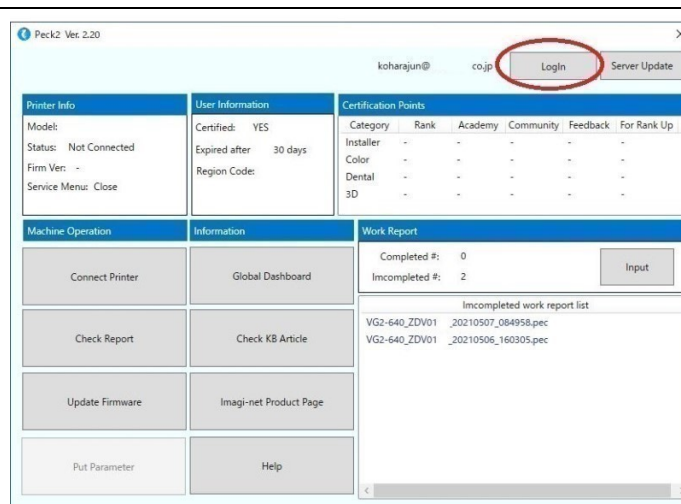
Step 11 / 21

Detail1: Start Peck2.



Step 12 / 21

Detail2: Click the [Login] button.



Step 13 / 21

Detail3: Login with your Imagi-net ID.

Sign in to your account

Microsoft

Select an account

 Jun Koh
koharajun@
Window

利用規約

プライバシーとCookie

...

Step 14 / 21

Detail4: Click the [Connect Printer] button.

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

Printer Info

Model:

Status: Not Connected

Firm Ver: -

Service Menu: Close

User Information

Certified: YES

Expired after: 30 days

Region Code:

Certification Points

Category	Rank	Academy	Community	Feedback	For Rank Up
Installer	-	-	-	-	-
Color	-	-	-	-	-
Dental	-	-	-	-	-
3D	-	-	-	-	-

Machine Operation

Connect Printer

Check Report

Update Firmware

Put Parameter

Information

Global Dashboard

Check KB Article

Imagi-net Product Page

Help

Work Report

Completed #: 0

Imcompleted #: 2

Input

Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Step 15 / 21

Detail5: Enter the IP address of the printer you would like to connect

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

Printer Info

Model:

ConnectPrinter

Select: VG2-640(11 .129.52)

Input IP Address:

Connect

Close

User Information

Certified: YES

Expired after: 30 days

Certification Points

Category	Rank	Academy	Community	Feedback	For Rank Up
Installer	Certified	0	*	*	*
Color	0	0	0	200	
Dental	0	0	*	200	
3D	0	0	*	200	

Machine Operation

Global Dashboard

Check Report

Check KB Article

Update Firmware

Imagi-net Product Page

Put Parameter

Help

Work Report

Completed #: 0

Imcompleted #: 2

Input

Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Step 16 / 21

Detail6: If you are able to connect to a printer, printer information will be displayed in [Printer Info].

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

Printer Info	User Information	Certification Points
Model: VG2-640_ZDV01	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: UnSetup	Expired after: 30 days	Installer Certified 0 * * *
Firm Ver: 2.00		Color 0 0 0 200
Service Menu: Open		Dental 0 0 * 200
		3D 0 0 * 200

Machine-Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0
Check Report	Check KB Article	Incompleted #: 2
Update Firmware	Imagi-net Product Page	Input
Put Parameter	Help	

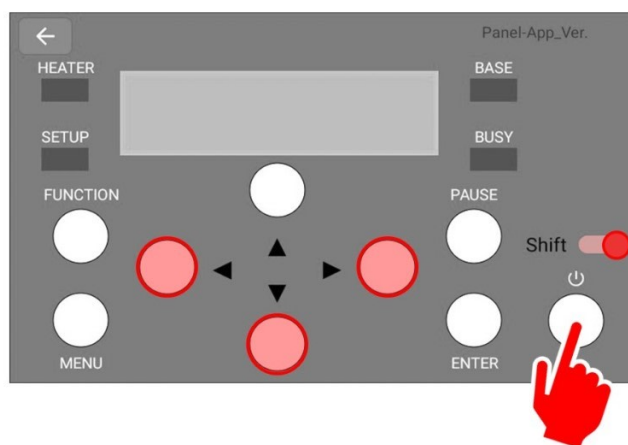
Incompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Step 17 / 21

Detail7: Press [Shift] > [□]+[□]+[□]+[Sub Power] to enter the service mode. By turning on the [Shift] button, multiple buttons can be pressed.



Step 18 / 21

Select [SERVICE MENU] > [UV LAMP MENU] > [SERIAL NO.] > [LAMP L/R]. Press [□][□] keys to move to the next digit, and [□][□] keys to change the value, and press [ENTER] after setting the serial number of the UV lamp.



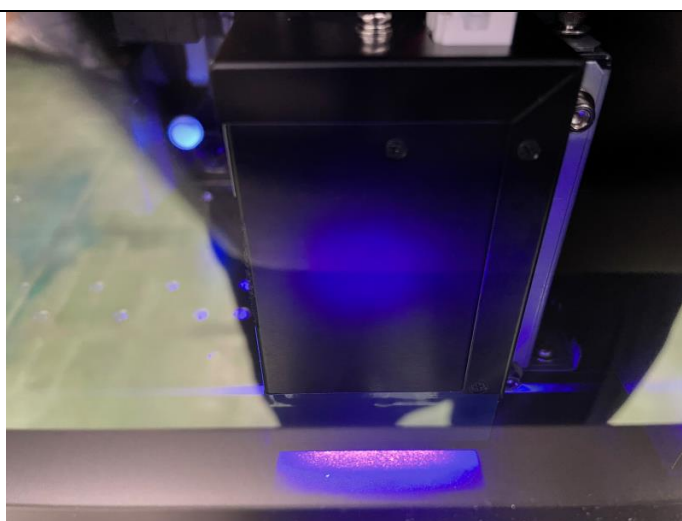
Step 19 / 21

Detail1: Serial No.



Step 20 / 21

Select [SERVICE MENU] > [UV LAMP MENU] > [LAMP CHECK] > [LAMP ON CHECK] and press [ENTER] to confirm that the replaced UV lamp emits light.



Step 21 / 21

UV Lamp Height Adjustment



次の手順

UVランプ高さ調整

Next Step

UV lamp height adjustment

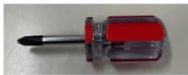
LG-645430 UV Lamp Lens Replacement

LG-645430 UV Lamp Lens Replacement Information

Step 1 / 3

Necessary Tools

一般ツール/General Tool

プラスドライバー No.2 (130mm以下) No.2 Phillips screwdriver (Length:130mm or less)	
六角レンチ (2.5mm) Hexagonal wrench(2.5mm)	

Step 2 / 3

Special Tools

特殊治具/Special Tools

精密プラスドライバー Precision Phillips screwdriver	
--	---

Step 3 / 3

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
UVランプレンズ交換 UV lamp lens replacement	20 min.

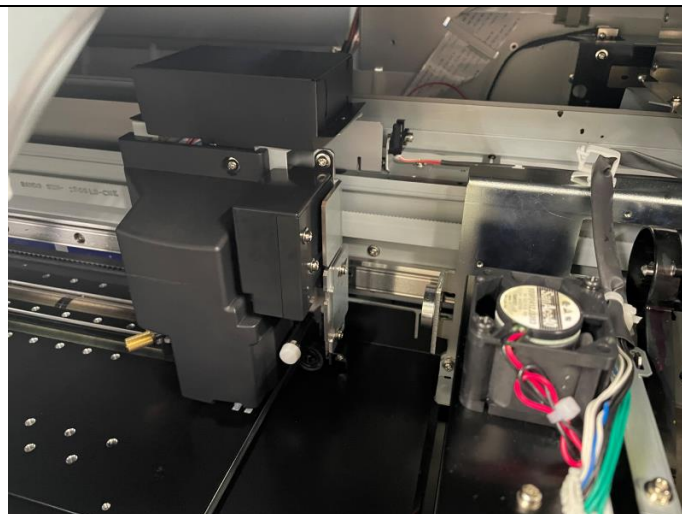
LG-645430 UV Lamp Lens Replacement

LG-645430 UV Lamp Lens Replacement

Procedure

Step 1 / 29

Separate the cut carriage from the print head carriage.

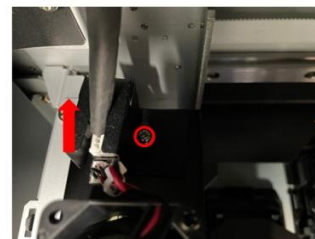


Step 2 / 29

Loosen the screws on the UV lamp connector cover and slide the cover to remove it.

左側
Left side

右側
Right side



Step 3 / 29

Remove the connectors.

左側
Left side

右側
Right side



Step 4 / 29

Remove the 6 screws and remove the UV lamp.



Step 5 / 29

Detail1: Front side screws

左側
Left side

右側
Right side

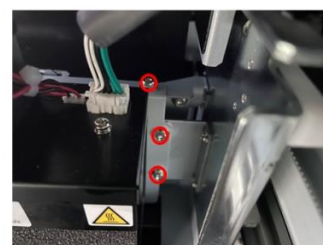
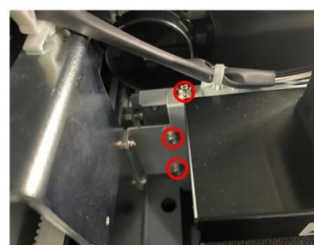


Step 6 / 29

Detail2: Back side screws

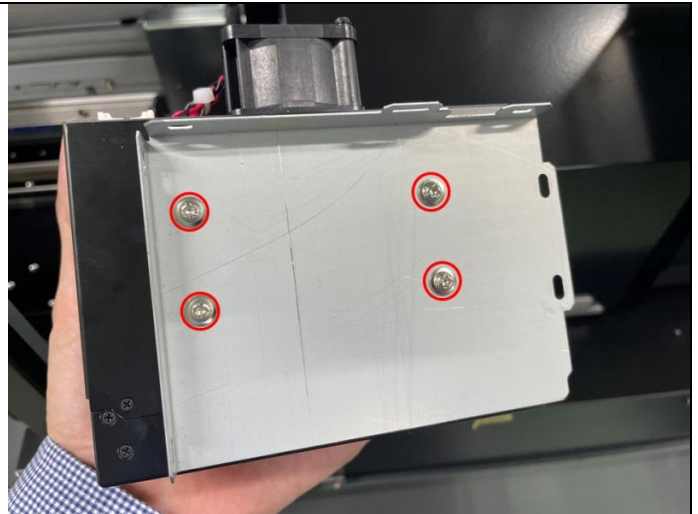
左側
Left side

右側
Right side



Step 7 / 29

Remove the plate by removing the four screws.



Step 8 / 29

Remove the label.



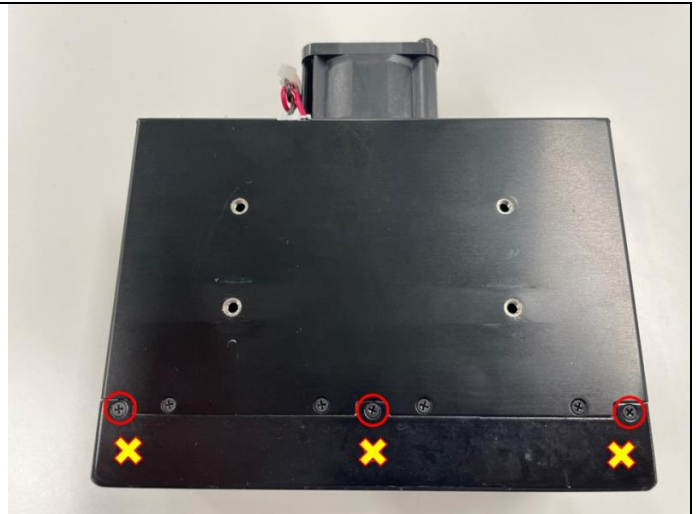
Step 9 / 29

Using a precision screwdriver, remove the 8 screws on 4 sides to remove the lens and replace it with a new lens.



Step 10 / 29

Detail: Screws to be removed Note: Do not remove the screws on the underside of the lens.



Step 11 / 29

Detail2: Screws to be removed Note: Do not remove the screws on the underside of the lens.



Step 12 / 29

Detail3: Screw to be removed



Step 13 / 29

Detail4: Screws to be removed



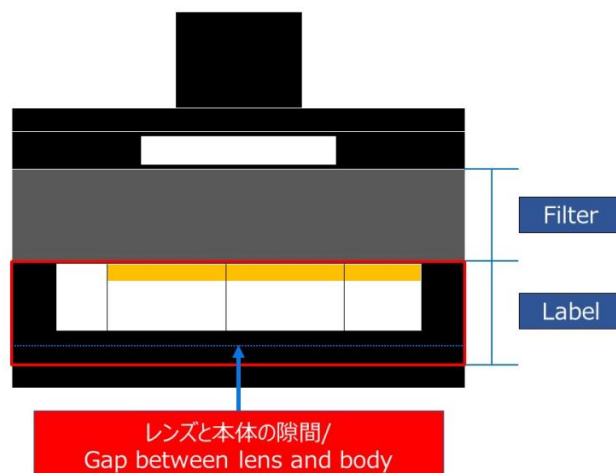
Step 14 / 29

After attaching the lens, attach the label included with lens package so that it covers the gap between the lens and the UV lamp body. If an old label is attached to the lens, dust and other debris may enter through the gap and cause a malfunction.



Step 15 / 29

Detail1: Label attaching position



Step 16 / 29

Detail2: Label attaching position



Step 17 / 29

Detail3: Label attaching position



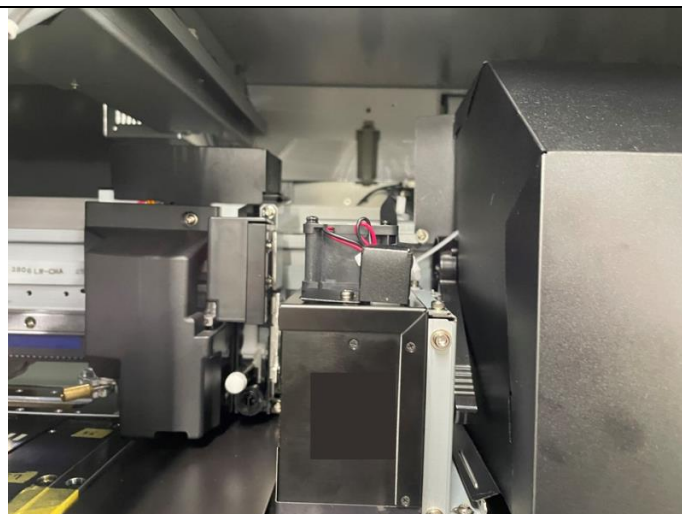
Step 18 / 29

Detail4: Label attaching position



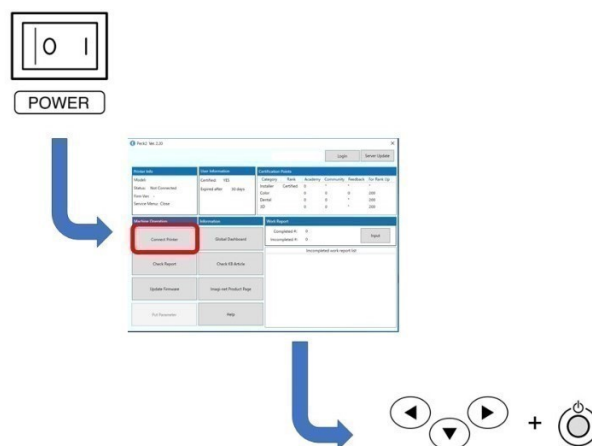
Step 19 / 29

Install the UV lamp, connector and connector cover.



Step 20 / 29

Turn on the power and enter the service mode with Peck2.



Step 21 / 29

Detail1: Start Peck2.



Step 22 / 29

Detail2: Click the [Login] button.

Peck2 Ver 2.20

koharajun@ co.jp Login Server Update

Printer Info	User Information	Certification Points
Model:	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: Not Connected	Expired after 30 days	Installer - - - - -
Firm Ver: -	Region Code:	Color - - - - -
Service Menu: Close		Dental - - - - -
		3D - - - - -

Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0 Incomplete #: 2 Input
Check Report	Check KB Article	Imcompleted work report list
Update Firmware	Imagi-net Product Page	VG2-640_ZDV01 _20210507_084958.pec VG2-640_ZDV01 _20210506_160305.pec
Put Parameter	Help	

Step 23 / 29

Detail3: Login with your Imagi-net ID.

Sign in to your account

Microsoft

Select an account

Jun Koh koharajun@ Windows

利用規約 プライバシーとCookie

Step 24 / 29

Detail4: Click the [Connect Printer] button.

Peck2 Ver 2.20

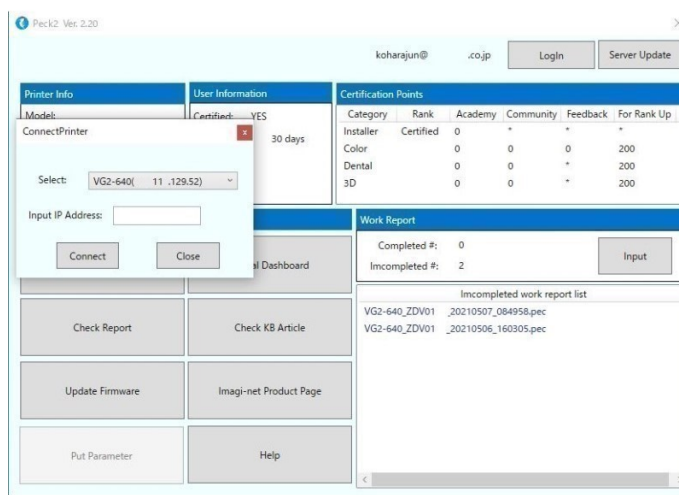
koharajun@ co.jp Login Server Update

Printer Info	User Information	Certification Points
Model:	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: Not Connected	Expired after 30 days	Installer - - - - -
Firm Ver: -	Region Code:	Color - - - - -
Service Menu: Close		Dental - - - - -
		3D - - - - -

Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0 Incomplete #: 2 Input
Check Report	Check KB Article	Imcompleted work report list
Update Firmware	Imagi-net Product Page	VG2-640_ZDV01 _20210507_084958.pec VG2-640_ZDV01 _20210506_160305.pec
Put Parameter	Help	

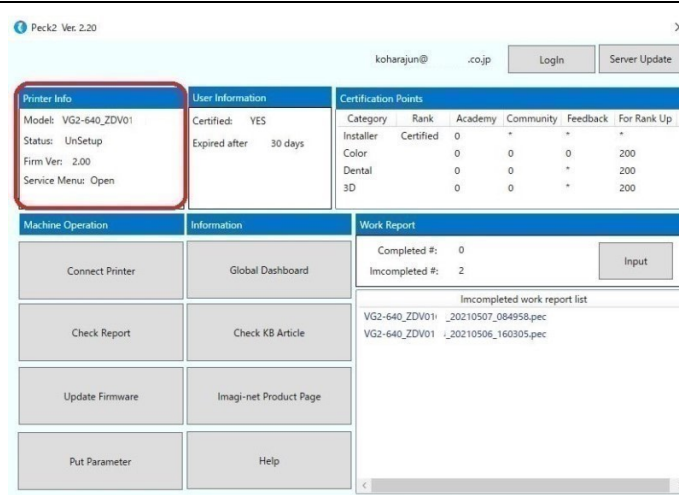
Step 25 / 29

Detail5: Enter the IP address of the printer you would like to connect to.



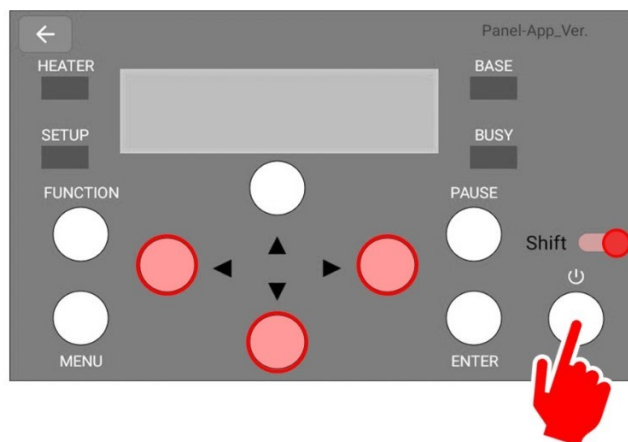
Step 26 / 29

Detail6: If you are able to connect to a printer, printer information will be displayed in [Printer Info].



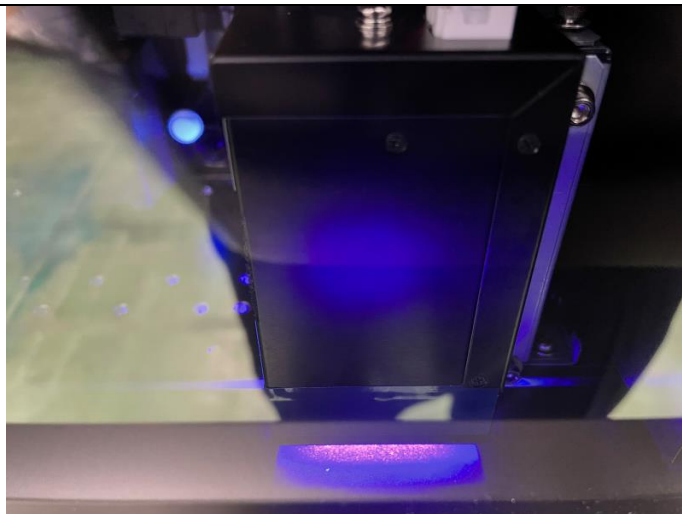
Step 27 / 29

Detail7: Press [Shift] > [□]+[□]+[□]+[Sub Power] to enter the service mode. By turning on the [Shift] button, multiple buttons can be pressed.



Step 28 / 29

Select [SERVICE MENU] > [UV LAMP MENU] > [LAMP CHECK] > [LAMP ON CHECK] and press [ENTER] to confirm that the replaced UV lamp emits light..



Step 29 / 29

UV Lamp Height Adjustment



次の手順

UVランプ高さ調整

Next Step

UV lamp height adjustment

LG-645430 Print Head Alignment

LG-645430 Print Head Alignment

Information

Step 1 / 3

Necessary tools

一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
塩ビ/銀メディアまたはSOL-PET vinyl media/Silver media or SOL-PET	
拡大鏡 Magnifying lens	
ライト Flashlight	
六角レンチ (2.0mm) Hexagonal wrench(2.0mm)	

Step 2 / 3

Special tools

特殊治具/Special Tools

非空転式トルクドライバー No.2 (パーツ名)	
PC	
4COLOR ADJUST用データ Data for 4COLOR ADJUST	

Step 3 / 3

Typical Work Time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
BIAS/VERTICAL調整 BIAS/VERTICAL adjustment	6 min.
M-GAP DEFAULT調整 M-GAP DEFAULT adjustment	5 min.
HORIZONTAL調整 HORIZONTAL adjustment	4 min.
4COLOR ADJUST (4色機のみ) 4COLOR ADJUST(4 colors mode only)	13 min.
M-GAP DEFAULT調整 (4色機のみ) M-GAP DEFAULT adjustment(4 colors mode only)	5 min.

LG-645430 Print Head Alignment

LG-645430 Print Head Alignment Procedure

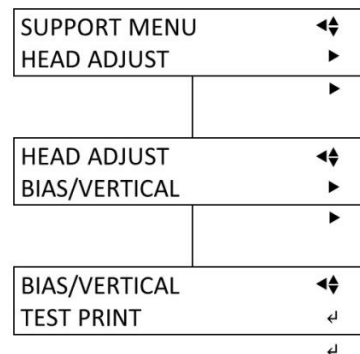
Step 1 / 41

Use a magnifying glass or flash light when checking test patterns.



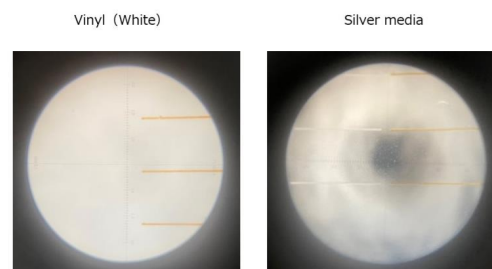
Step 2 / 41

Print [BIAS/VERTICAL] test pattern from the service menu.



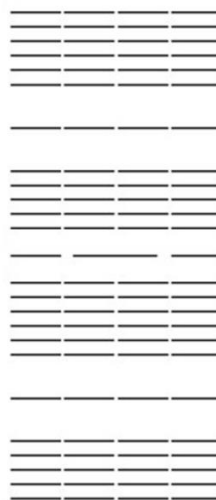
Step 3 / 41

Detail1: The BIAS/VERTICAL test pattern is most easily seen on silver media. Test pattern may be difficult to see depending on ink type.



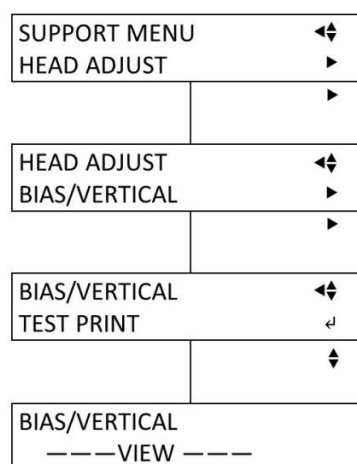
Step 4 / 41

Once the pattern is printed, use a magnifying glass or flash light to check the pattern.



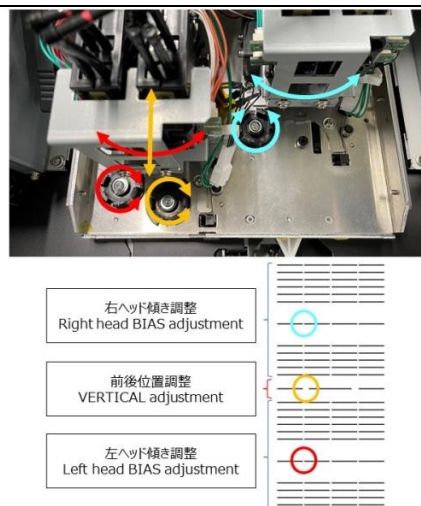
Step 5 / 41

Detail1: By pressing either the up or down button from the test pattern output menu, the menu enters VIEW mode and the media is fed.



Step 6 / 41

Detail2: There are three areas that need to be checked when making adjustments. Check the line on the left side of each pattern, and use the line on the right side as a guide. The allowable displacement is within 0.5 dots.



Step 7 / 41

After confirming that the amount of displacement is within 0.5 dots, move on to the M-GAP DEFAULT adjustment. If the displacement exceeds 0.5 dots, continue with the adjustment.



仕様外の場合は調整を行ってください。

If you get the out of range,
please adjustment.



次の手順

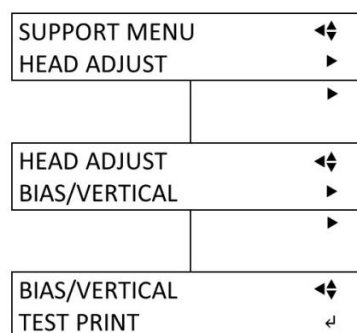
M-GAP DEFAULT調整

Next Step

M-GAP DEFAULT ADJUSTMENT

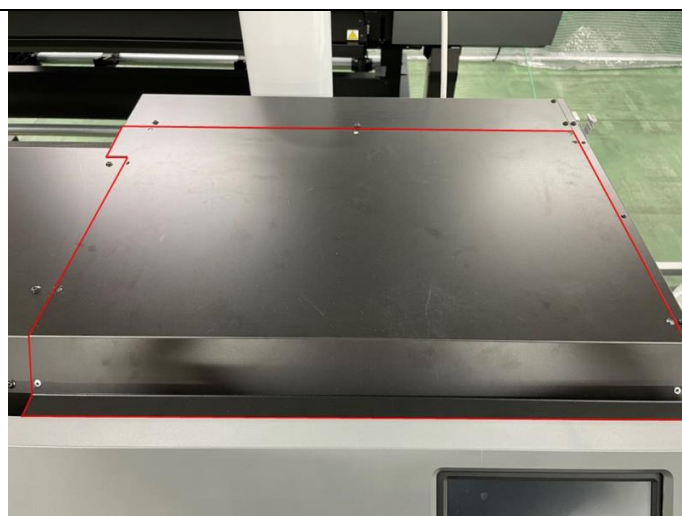
Step 8 / 41

This adjustment can be made with the test pattern output menu displayed.



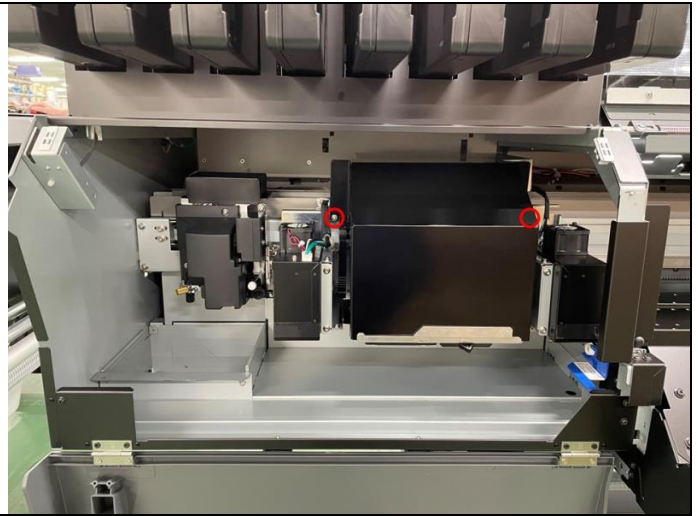
Step 9 / 41

Remove the cover on the top of the print head.



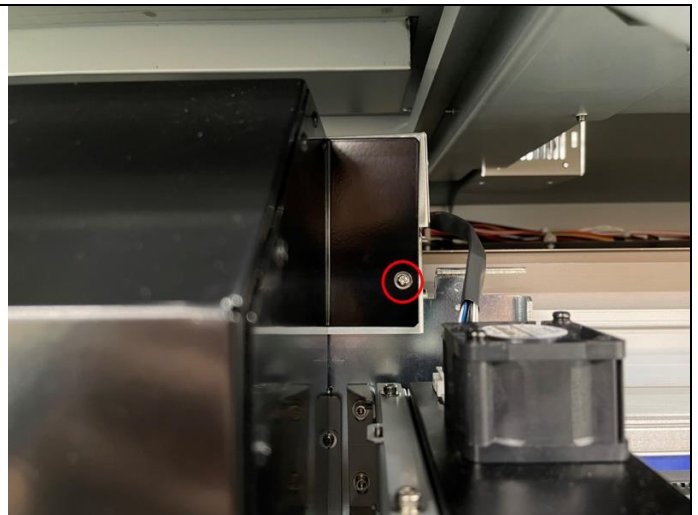
Step 10 / 41

Remove the two screws and remove the carriage cover.



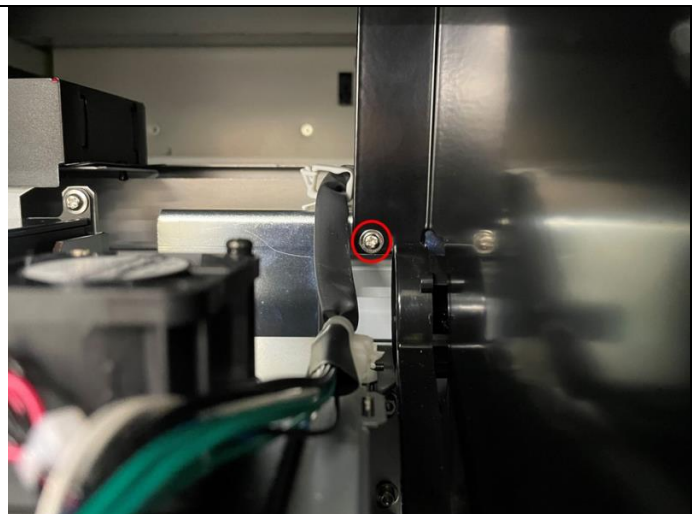
Step 11 / 41

Detail1: Screw to be removed



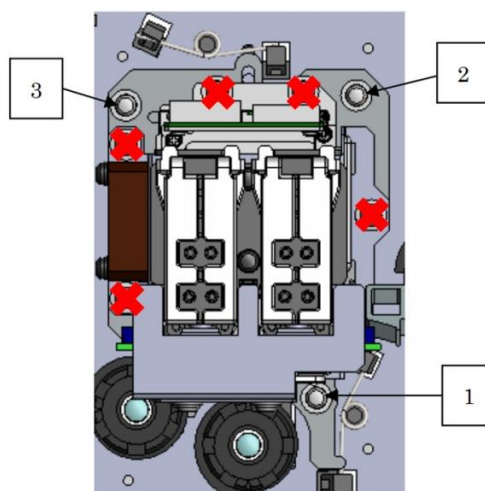
Step 12 / 41

Detail2: Screw to be removed



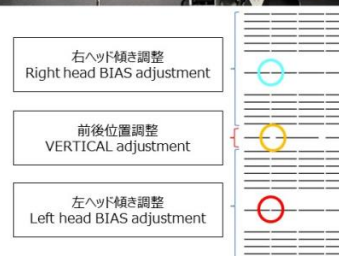
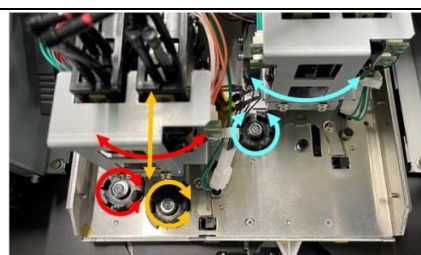
Step 13 / 41

Loosen the screws on the side of the print head to be adjusted by half a turn in the order marked in the image.



Step 14 / 41

Turn the adjustment gear depending the amount of displacement of the test pattern lines.



Step 15 / 41

Detail1: The adjustment value for one click differs between BIAS and VERTICAL, so use the values in the image as a guide and adjust carefully.

傾き調整/BIAS ADJUSTMENT

24Clicks=1Dot 12Clicks=0.5Dot

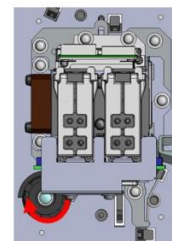
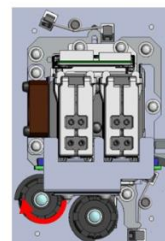
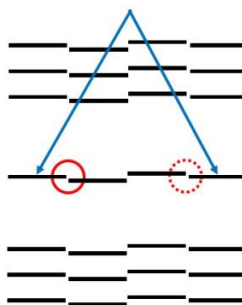
前後位置調整/VERTICAL ADJUSTMENT

6Clicks=1Dot 3Clicks=0.5Dot

Step 16 / 41

Detail2: Adjustment direction for BIAS adjustment dial

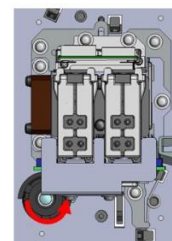
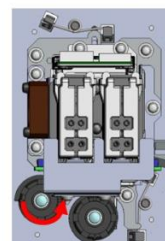
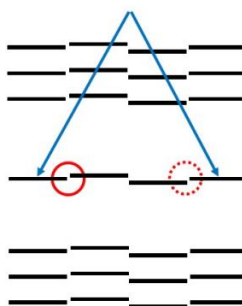
基準線/Reference line



Step 17 / 41

Detail3: Adjustment direction for BIAS adjustment dial

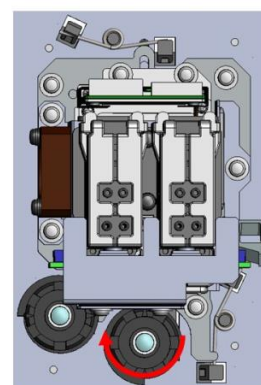
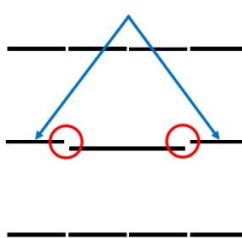
基準線/Reference line



Step 18 / 41

Detail4: Adjustment direction for VERTICAL adjustment dial

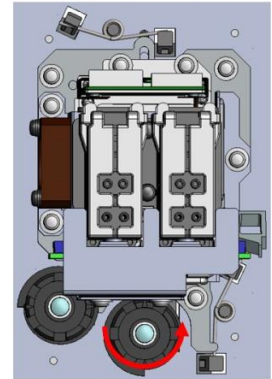
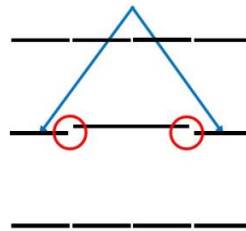
基準線/Reference line



Step 19 / 41

Detail5: Adjustment direction for
VERTICAL adjustment dial

基準線/Reference line



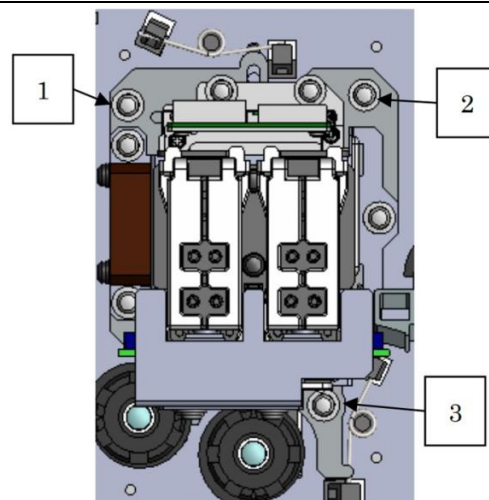
Step 20 / 41

Set the torque screwdriver that does not
generate impact to 0.6 N-m.



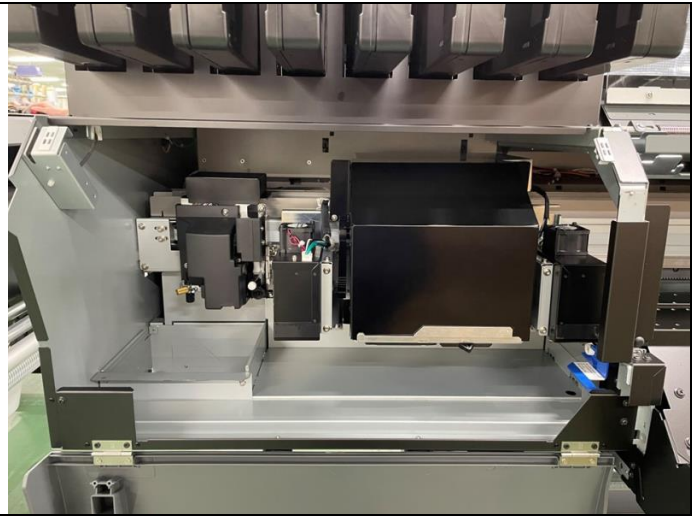
Step 21 / 41

Fasten the screws using a torque
screwdriver in the reverse order of the
screws loosened before adjustment.



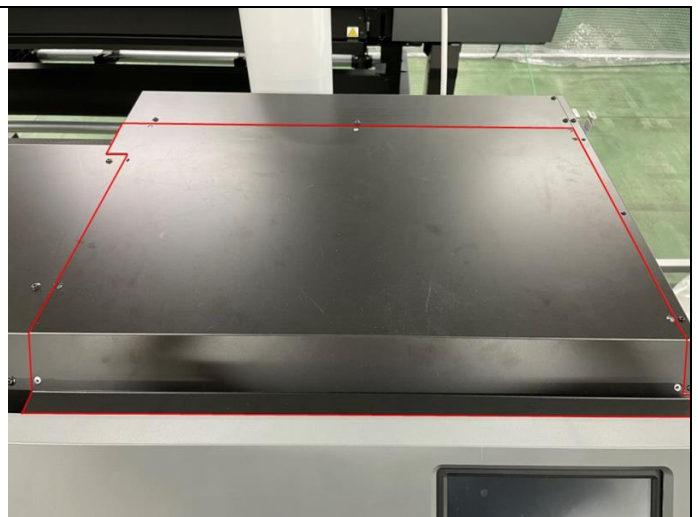
Step 22 / 41

Attach the cover that was removed to shield the UV lamp.



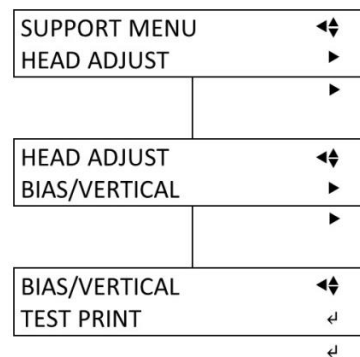
Step 23 / 41

Detail1: Cover to be attached



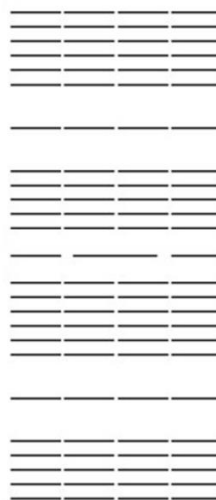
Step 24 / 41

Print the test pattern again.



Step 25 / 41

Check the adjustment pattern and confirm that it is within 0.5 dots.



Step 26 / 41

If the displacement is within 0.5 dots, perform the M-GAP DEFAULT adjustment; if it is more than 0.5 dots, remove the cover and perform the adjustment procedure again.



仕様外の場合は再度調整を行ってください。

If you get the out of range, please adjustment again.



次の手順

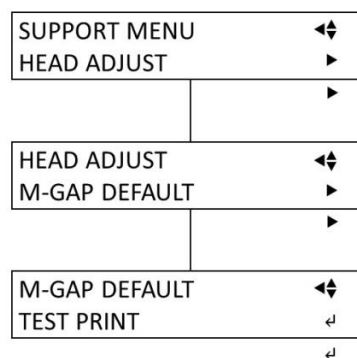
M-GAP DEFAULT調整

Next Step

M-GAP DEFAULT ADJUSTMENT

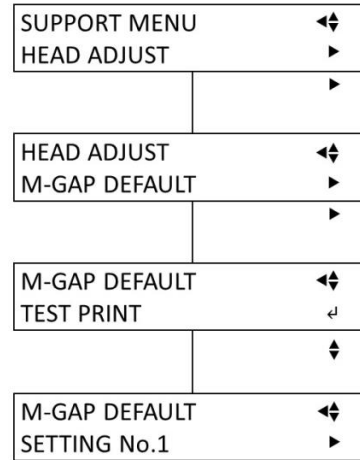
Step 27 / 41

Print the test pattern of [M-GAP DEFAULT].



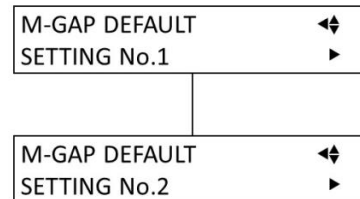
Step 28 / 41

After the test pattern is printed, press [] to enter the adjustment value input menu. After entering the adjustment value input menu, the media is automatically fed to the View position.



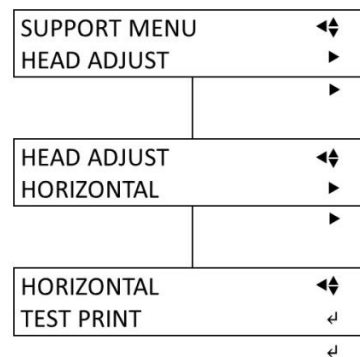
Step 29 / 41

Enter all appropriate adjustment values for both SETTING No.1/2 and press ENTER.



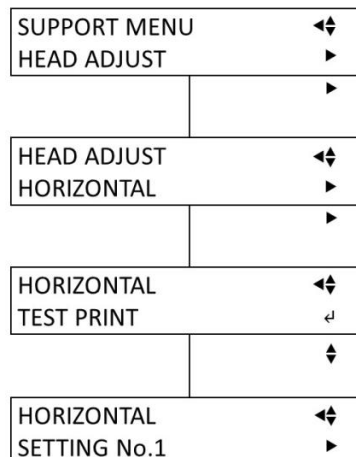
Step 30 / 41

Prints [HORIZONTAL] test pattern.



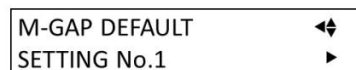
Step 31 / 41

After the test pattern is printed, press [] to go to the adjustment value input menu. After entering the adjustment value input menu, the media is automatically fed to the View position.



Step 32 / 41

Enter the adjustment value confirmed in SETTING No. 1 and press [ENTER].



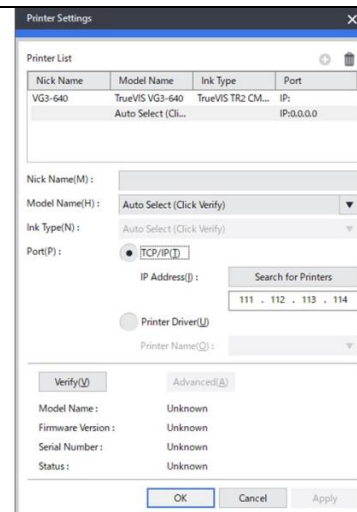
Step 33 / 41

This adjustment needs to be done only for 4-color ink type machines; 7- or 8-color machines do not need to do this work. Note: Use SOL-PET or PVC media.



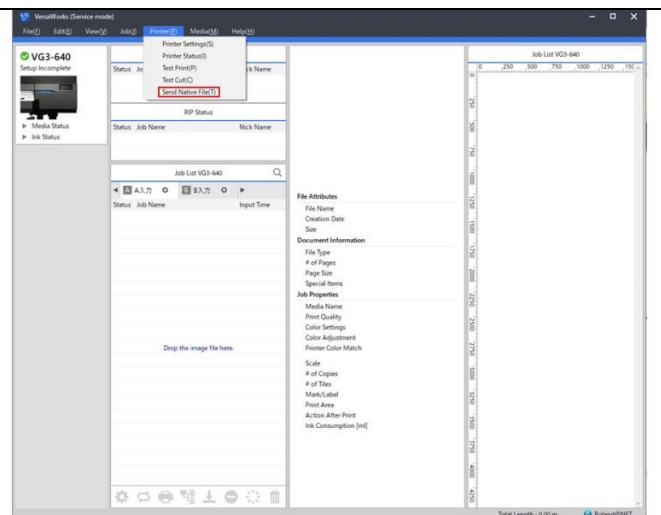
Step 34 / 41

Start VersaWorks and connect it to the machine.



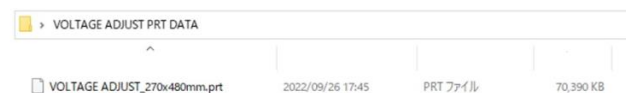
Step 35 / 41

Print PRT data for 4 color adjustment from VersaWorks.



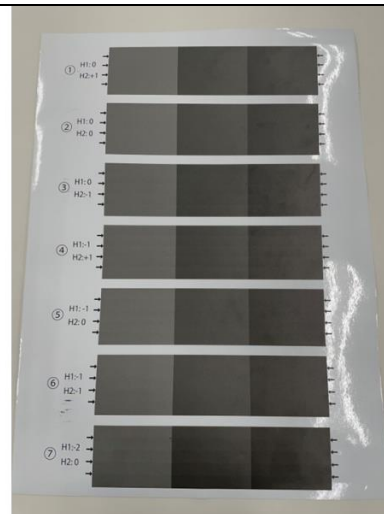
Step 36 / 41

Detail1: Select output data for adjustment.



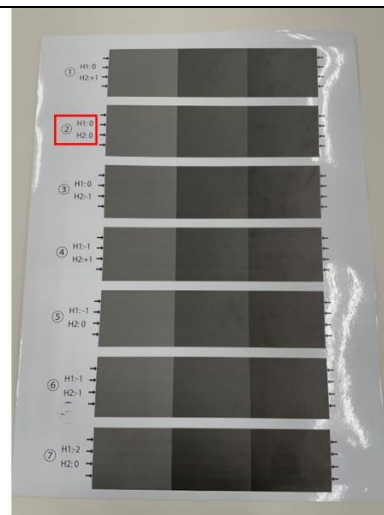
Step 37 / 41

Seven patterns with three levels of shading are printed.



Step 38 / 41

Select the pattern with the least banding among them and check the H1/2 V value listed next to the selected pattern.



Step 39 / 41

Enter the confirmed values for H1/2 respectively from the input menu.

HEAD ADJUST	◀▶	HEAD ADJUST	◀▶
4COLOR ADJ.	▶	4COLOR ADJ.	▶
▶		▶	
4COLOR ADJ.	◀▶	4COLOR ADJ.	◀▶
HEAD 1	▶	HEAD 2	▶
▶		▶	
HEAD 1	◀▶	HEAD 2	◀▶
VDD2ALL	▶	VDD2ALL	▶
▶		▶	
VDD2ALL	◀▶	VDD2ALL	◀▶
0.0 ▶ 0.0 ◀	◀	0.0 ▶ 0.0 ◀	◀

Step 40 / 41

As with the 4 COLOR ADJUST, this adjustment needs to be performed only on 4-color ink type machines, and does not need to be performed on 7- or 8-color machines.



Step 41 / 41

The VOLTAGE ADJUST adjustment adjusts the ink ejection rate by changing the voltage applied to the print head. If the voltage is changed, the ejection rate will also change, so please adjust the M-GAP DEFAULT adjustment again.



M-GAP DEFAULT調整を再度行ってください。

Please do the M-GAP DEFAULT ADJUSTMENT again.

LG-645430 Cap Height Adjustment

LG-645430 Cap Height Adjustment

Information

Step 1 / 2

Necessary Tools

一般ツール/General Tool

六角レンチ (3mm)
Hexagonal wrench(3mm)



Step 2 / 2

Typical work time

作業時間/Typical work time

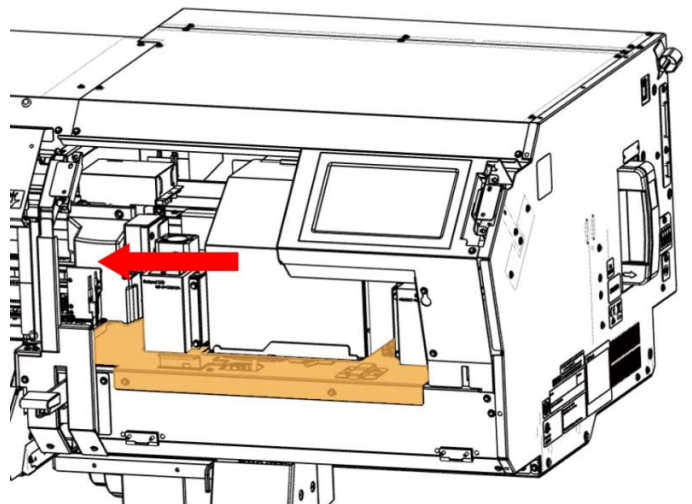
作業内容/Contents of work	時間/Time
キャップ高さ調整 Cap top height adjustment	5 min.

LG-645430 Cap Height Adjustment

LG-645430 Cap Height Adjustment Procedure

Step 1 / 21

Move the carriage to left and remove the cover.



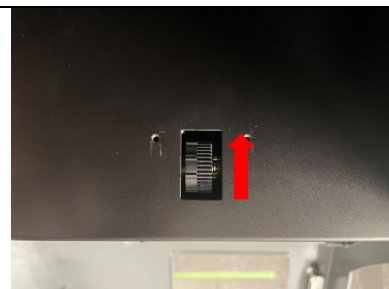
Step 2 / 21

Detail1: Remove the cap UP/DOWN gear cover.



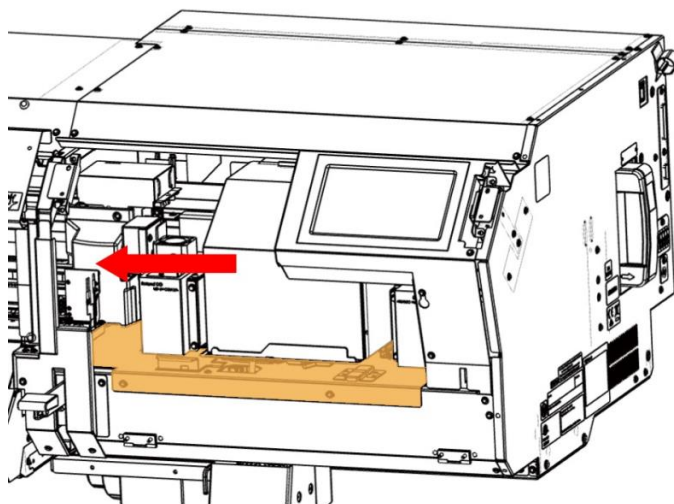
Step 3 / 21

Detail2: Rotate the cap UP/DOWN gear backward about 5 turns to remove the capping.



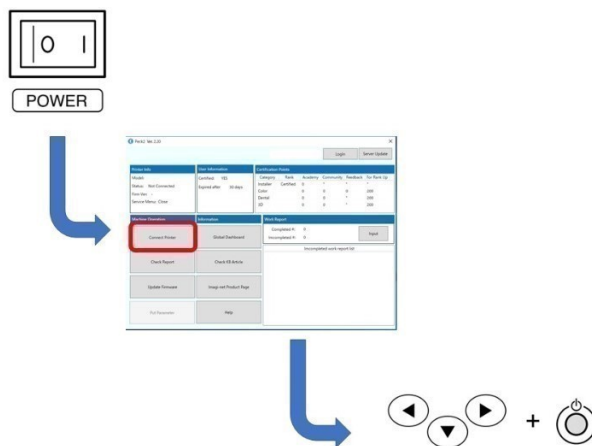
Step 4 / 21

Detail3: Move the carriage to left and remove the cover.



Step 5 / 21

Turn on the power and enter the service mode with Peck2.



Step 6 / 21

Detail1: Start Peck2.



Step 7 / 21

Detail2: Click the [Login] button.

Peck2 Ver. 2.20

koharajun@ co.jp Login Server Update

Printer Info	User Information	Certification Points
Model:	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: Not Connected	Expired after 30 days	Installer - - - - -
Firm Ver: -	Region Code:	Color - - - - -
Service Menu: Close		Dental - - - - -
		3D - - - - -

Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0 Imcompleted #: 2 Input
Check Report	Check KB Article	Imcompleted work report list
Update Firmware	Imagi-net Product Page	VG2-640_ZDV01 _20210507_084958.pec VG2-640_ZDV01 _20210506_160305.pec
Put Parameter	Help	

Step 8 / 21

Detail3: Login with your Imagi-net ID.

Sign in to your account

Microsoft

Select an account

Jun Koh koharajun@ Windows

利用規約 プライバシーと Cookie

Step 9 / 21

Detail4: Click the [Connect Printer] button.

Peck2 Ver. 2.20

koharajun@ co.jp Login Server Update

Printer Info	User Information	Certification Points
Model:	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: Not Connected	Expired after 30 days	Installer - - - - -
Firm Ver: -	Region Code:	Color - - - - -
Service Menu: Close		Dental - - - - -
		3D - - - - -

Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0 Imcompleted #: 2 Input
Check Report	Check KB Article	Imcompleted work report list
Update Firmware	Imagi-net Product Page	VG2-640_ZDV01 _20210507_084958.pec VG2-640_ZDV01 _20210506_160305.pec
Put Parameter	Help	

Step 10 / 21

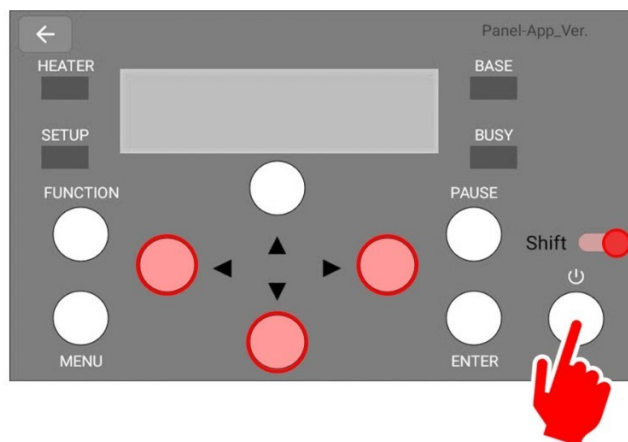
Detail5: Enter the IP address of the printer you would like to connect to.

Step 11 / 21

Detail6: If you are able to connect to a printer, printer information will be displayed in [Printer Info].

Step 12 / 21

Detail1: Press [Shift] > [□]+[□]+[□]+[Sub Power] to enter the service mode. By turning on the [Shift] button, multiple buttons can be pressed.



Step 13 / 21

Select [SERVICE MENU] > [I/S MENU] > [CAP ADJUST].



Step 14 / 21

Detail1: Press [ENTER] to lower the print head cap to the starting position of cap height adjustment and the panel display will change.



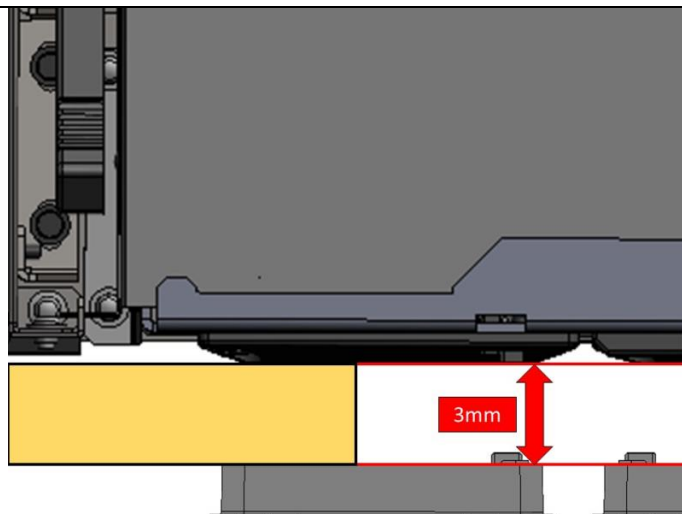
Step 15 / 21

Prepare a jig with a thickness of 3 mm.



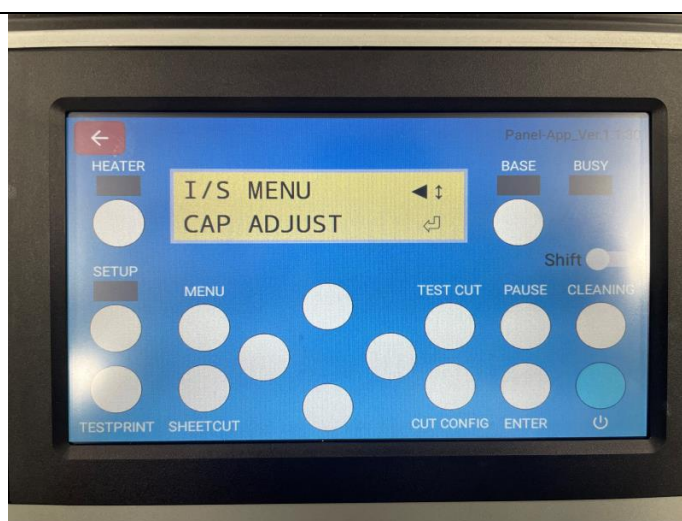
Step 16 / 21

Press the [] key to raise the print head cap, insert the 3 mm jig, and press [ENTER] when the jig is pinched. *To avoid backlash, press the [] key to lower the print head cap to the starting position for adjustment.



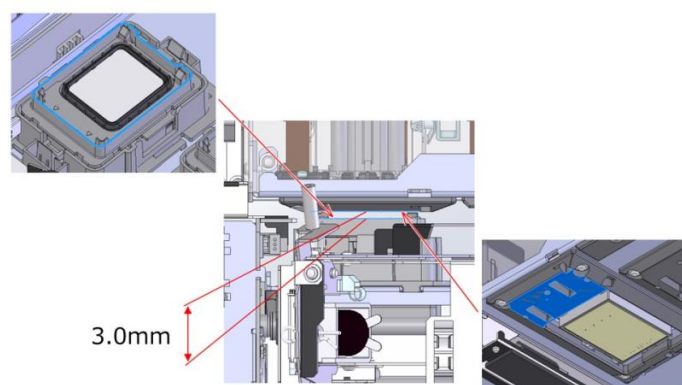
Step 17 / 21

Detail1: Pressing the [MENU] key inside the [CAP ADJUST] menu allows you to return to the first page of [CAP ADJUST] menu without saving the set value.



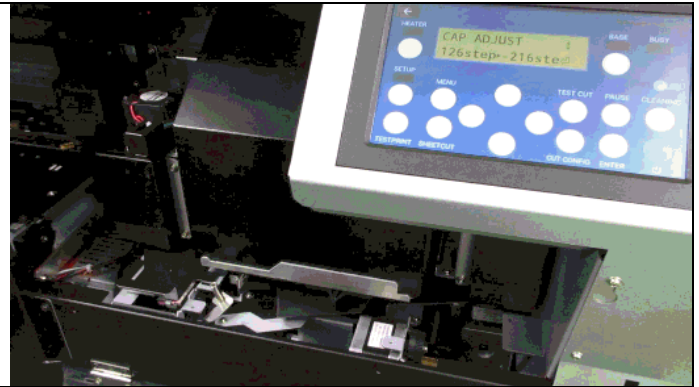
Step 18 / 21

Detail2: Position for adjustment



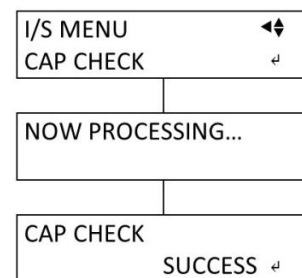
Step 19 / 21

Detail3: Video



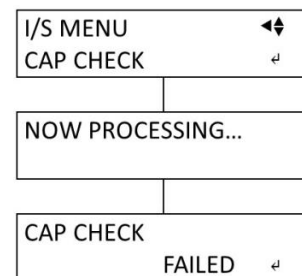
Step 20 / 21

After adjustment is complete, perform [SERVICE MENU] > [I/S MENU] > [CAP CHECK]. When [CAP CHECK SUCCESS] is displayed, the work is complete.



Step 21 / 21

Detail1: If [CAP CHECK FAILED] is displayed, reinstall the print head cap and perform [CAP ADJUST] again to remove the cause, and then perform [CAP CHECK] until [CAP CHECK SUCCESS] is displayed.



LG-645430 Firmware Installation

LG-645430 Firmware Installation Information

Step 1 / 2

Necessary Tools

一般ツール/General Tool

無し None	
------------	--

特殊治具/Special Tools

無し None	
------------	--

Step 2 / 2

Typical Work Time. If you do not have the system parameters obtained from Peck2 at the time of main board replacement, extra adjustment works will be needed. Total time will be about 20 minutes longer.

作業時間/Typical work time

作業内容/Contents of work	時間/Time
ファームウェアインストール Firmware file installation	15 min.

LG-645430 Firmware Installation

LG-645430 Firmware Installation Procedure

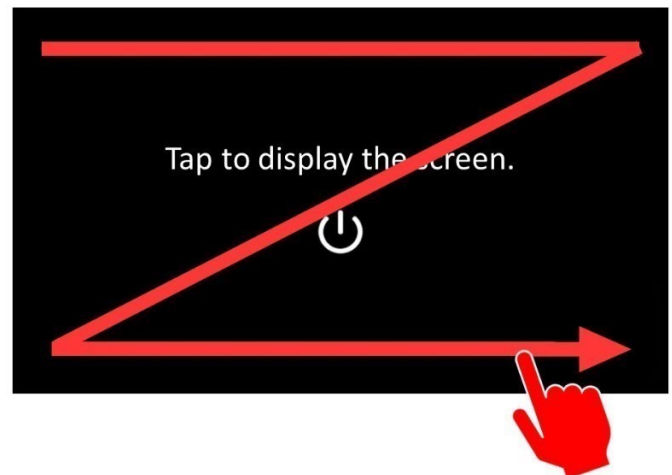
Step 1 / 35

Enter "3764892655" in the special number input screen to enter the temporary IP address mode.



Step 2 / 35

Detail1: Without releasing your finger, trace the display in the order of upper left, upper right, lower left, and lower right.



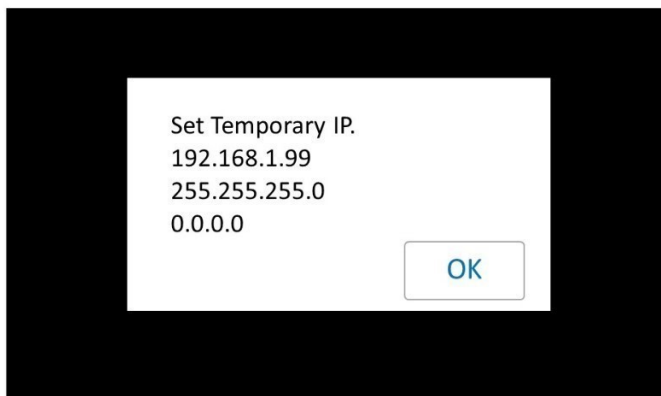
Step 3 / 35

Detail2: Enter "3764892655" in the special number input screen and press [OK].



Step 4 / 35

The temporary IP address will be displayed; pressing OK will sound a buzzer and the network settings will be temporarily set to 192.168.1.99/255.255.255.0/0.0.0.0.



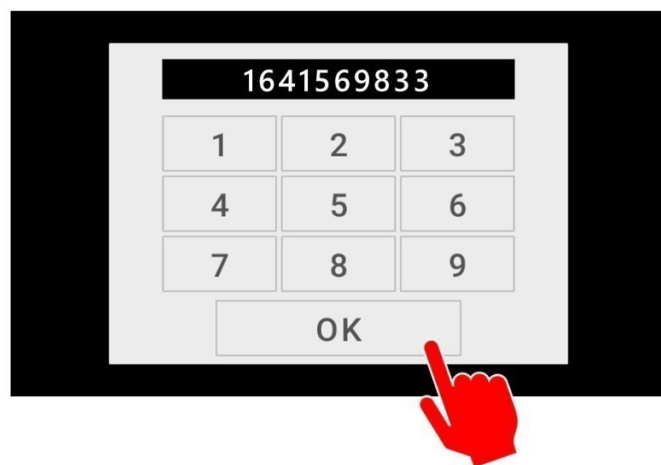
Step 5 / 35

Detail1: Temporary IP address mode is released by turning off the main power supply or restarting the machine. (turning the sub power from ON to OFF).



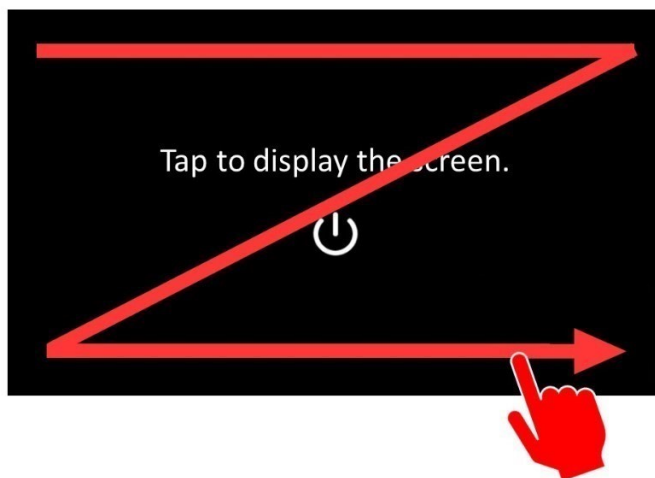
Step 6 / 35

Enter "1641569833" from the special number input screen to enter [UPDATE FIRMWARE] mode.



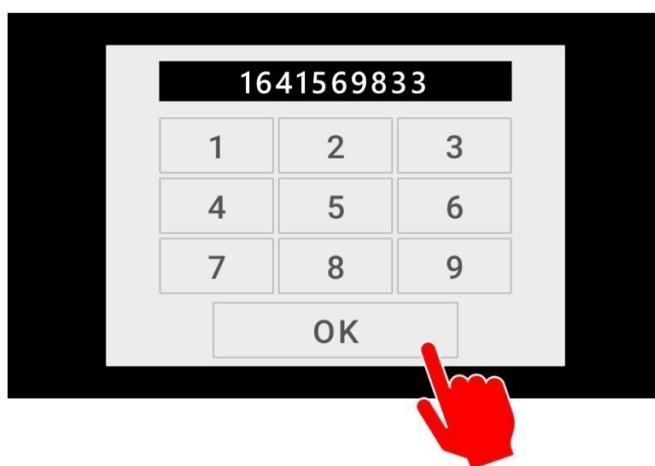
Step 7 / 35

Detail1: Without releasing your finger, trace the display in the order of upper left, upper right, lower left, and lower right.



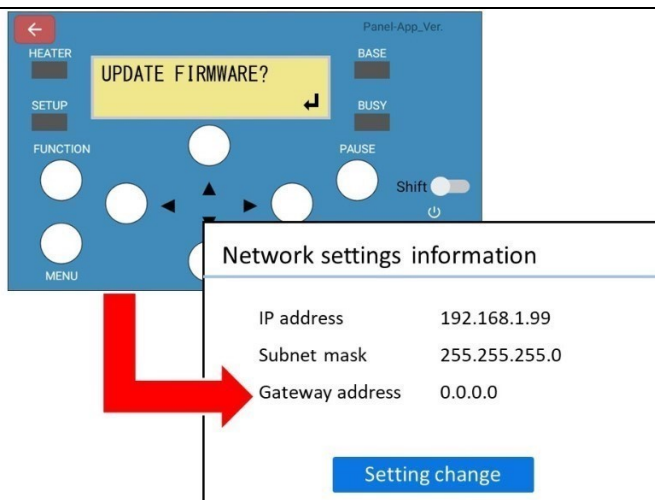
Step 8 / 35

Detail2: Enter "1641569833" at the special number input screen and press [OK].



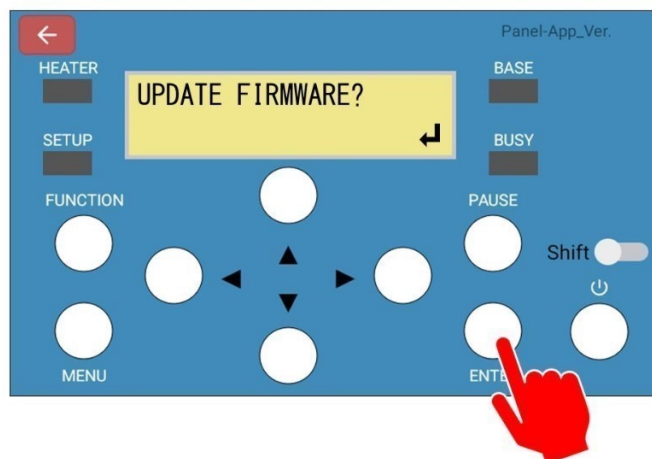
Step 9 / 35

Press [Enter] on the Service Mode screen to display the Network settings Information screen.



Step 10 / 35

Detail1: Press [Enter] on the service mode screen.



Step 11 / 35

Detail2: The network settings information will be displayed.

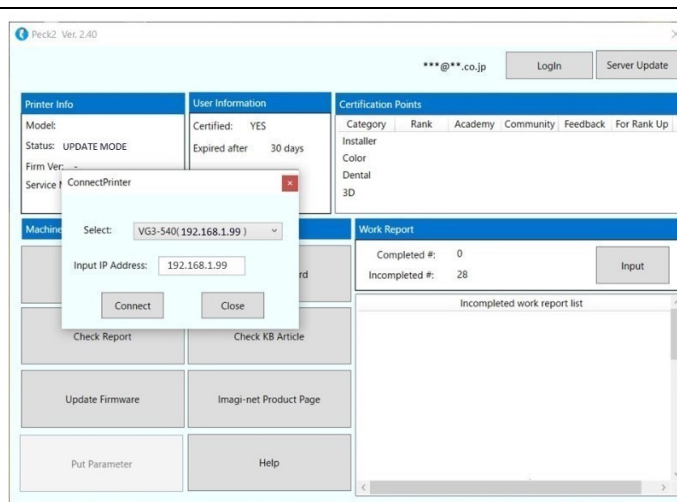
Network settings information

IP address	192.168.1.99
Subnet mask	255.255.255.0
Gateway address	0.0.0.0

Setting change

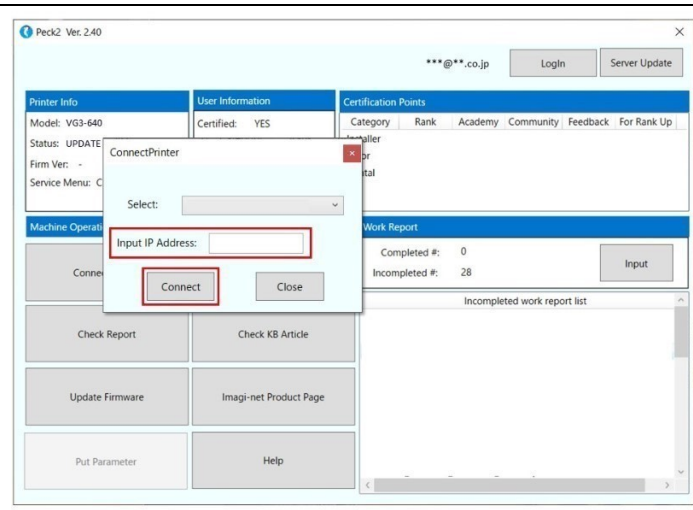
Step 12 / 35

Set the IP address to "192.168.1.99" from [Connect Printer] on Peck2 and press [Connect].



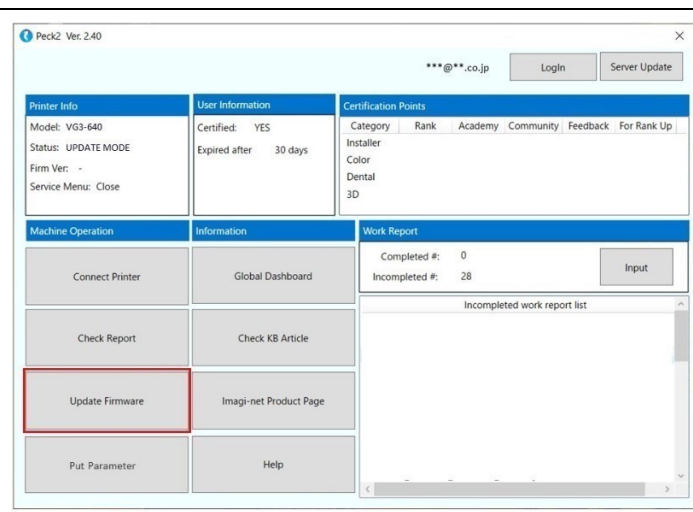
Step 13 / 35

Detail1: Set the IP address to "192.168.1.99" and press the [Connect] button.



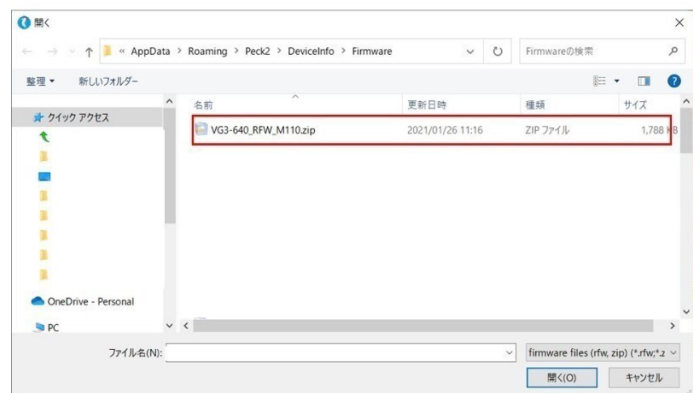
Step 14 / 35

Click the [Update Firmware] button and select the firmware.



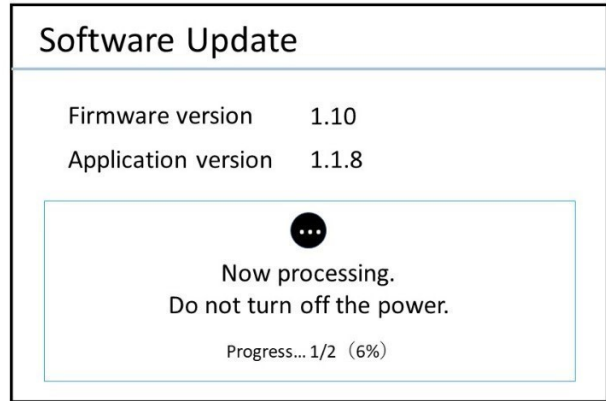
Step 15 / 35

Detail1: Click the [Open] button to transfer the firmware to the printer.



Step 16 / 35

The firmware installation will begin.
Wait 5 minutes for the installation to complete.



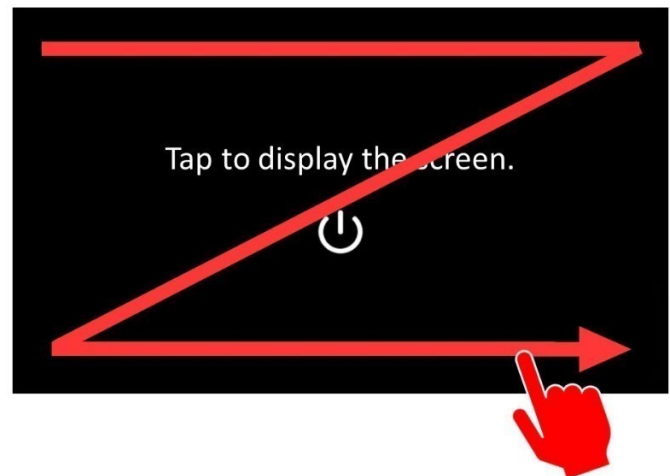
Step 17 / 35

Enter "6181355894" from the special
number input screen to enter the
system parameter initialize mode.



Step 18 / 35

Detail1: Without releasing your hand,
trace the display in the order of upper
left, upper right, lower left, and lower
right.



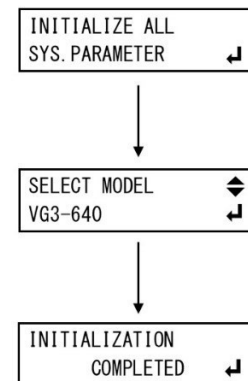
Step 19 / 35

Detail2: From the special number input screen, enter "6181355894" and press [OK].



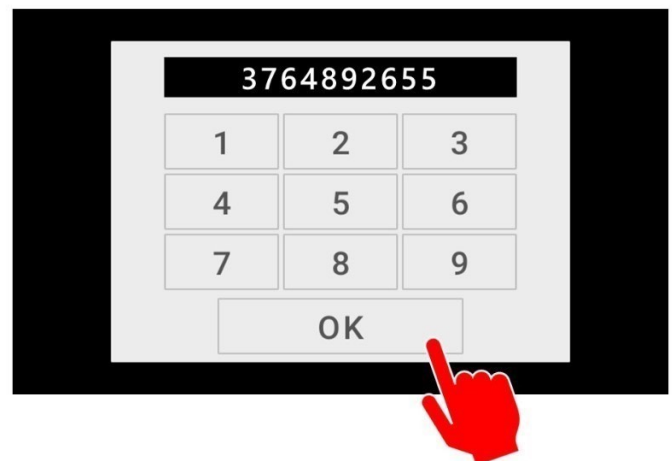
Step 20 / 35

Use the [] [] keys to select the model and press [ENTER] to execute initialization. When completed, the sub power will automatically turn off.



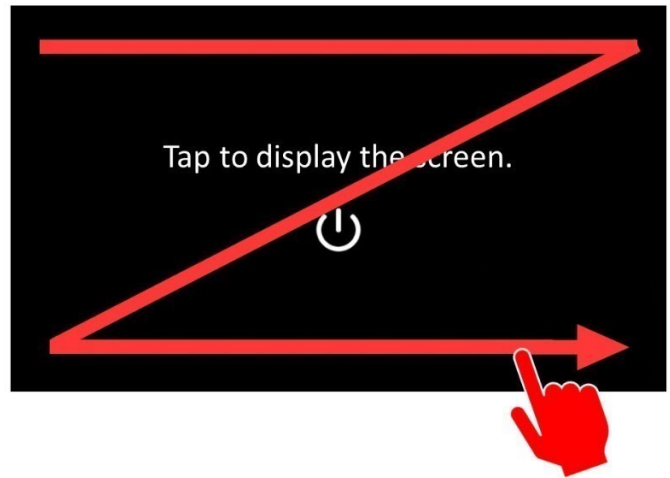
Step 21 / 35

Enter "3764892655" in the special number input screen to enter the temporary IP address mode.



Step 22 / 35

Detail1: Without releasing your hand, trace the display in the order of upper left, upper right, lower left, and lower right.



Step 23 / 35

Detail2: Enter "3764892655" on the special number input screen and press [OK].



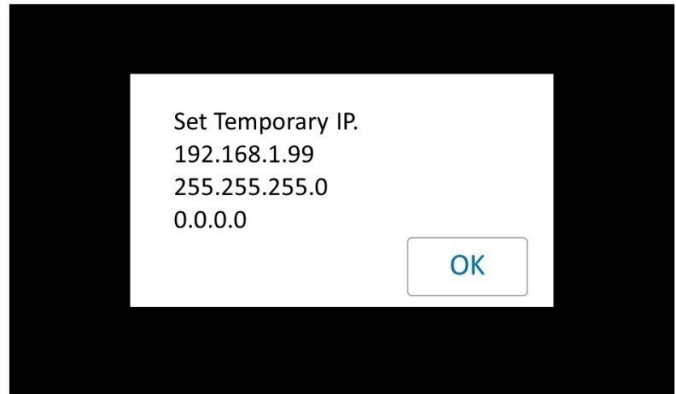
Step 24 / 35

Detail3: Press [OK] on the panel display, a buzzer sounds and the network settings are temporarily set to 192.168.1.99/255.255.255.0/0.0.0.0.



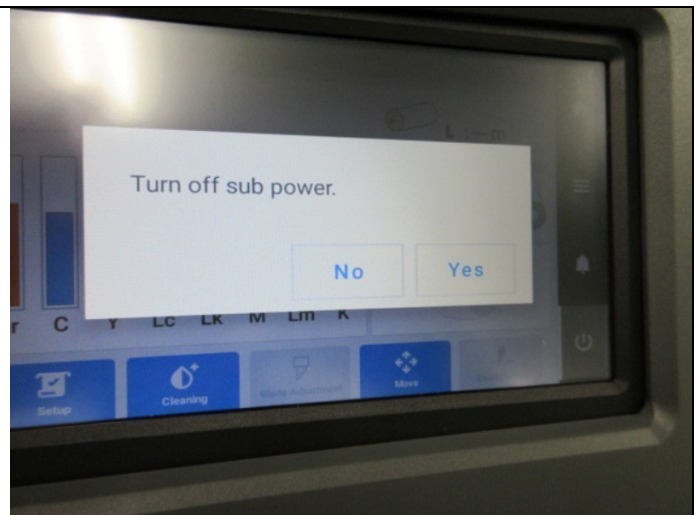
Step 25 / 35

The temporary IP address will be displayed; pressing [OK] will cause a buzzer sound and the network settings will be temporarily set to the 192.168.1.99/255.255.255.0/0.0.0.0 state.



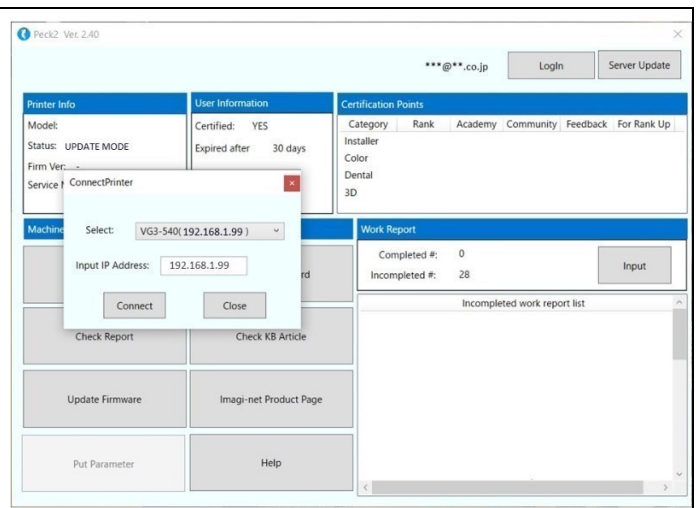
Step 26 / 35

Detail1: Temporary IP address mode will be released by turning off the main power supply or by restarting the machine (turning the sub power from ON to OFF).



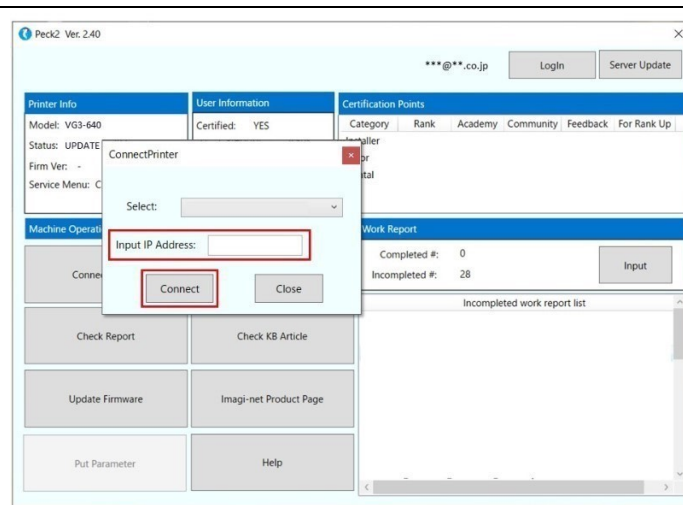
Step 27 / 35

Set the IP address to "192.168.1.99" from the Peck2 [Connect Printer] and press the [Connect] button.



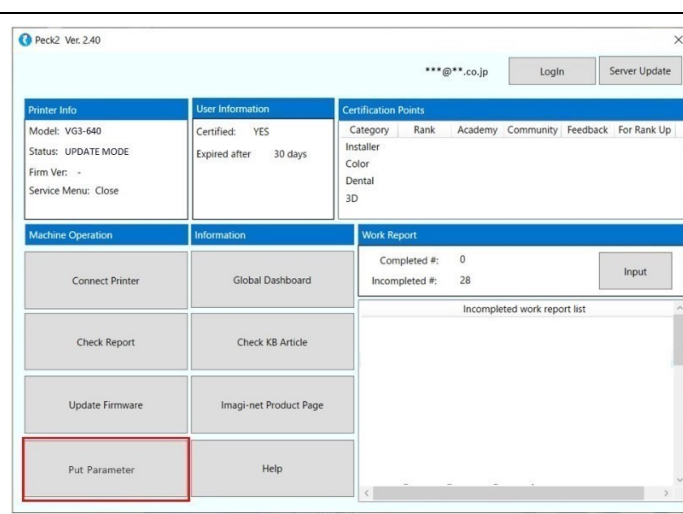
Step 28 / 35

Detail1: Set the IP address to "192.168.1.99" and press the [Connect] button.



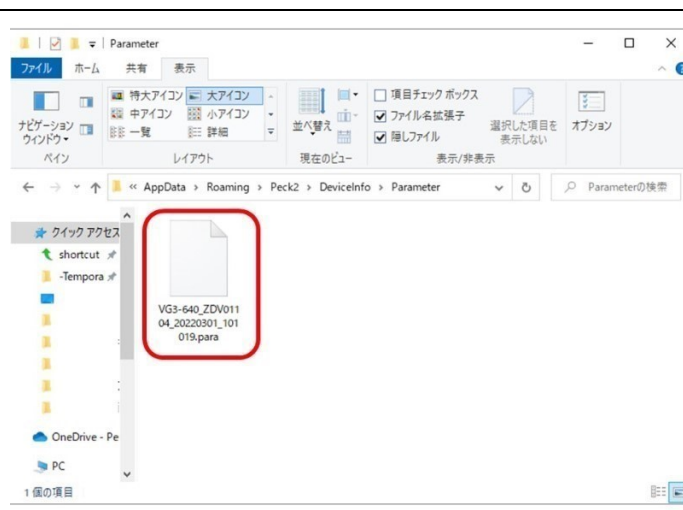
Step 29 / 35

Click the [Put Parameter] button to transfer the system parameters to the printer.



Step 30 / 35

Detail1: Select the system parameter file that was obtained before the main board replacement, etc. Click the [Open] button to transfer the system parameters to the printer.



Step 31 / 35

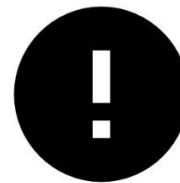
Click the [Check Report] button to obtain a report on the main unit.
Confirm that the parameters have been written correctly.

Step 32 / 35

Detail1: Confirm that the parameters have been written correctly.

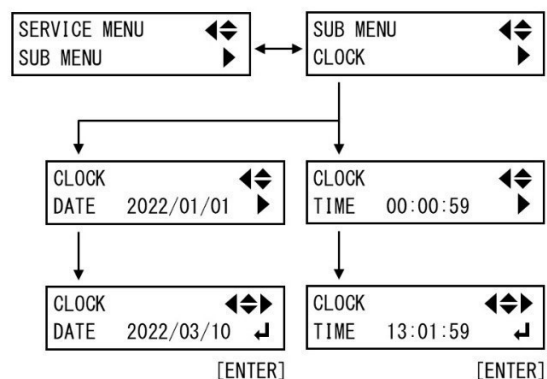
Step 33 / 35

The configured network settings will be rewritten to the addresses stored in the system parameters when [Put Parameter] is executed. If necessary, re-configure the settings.



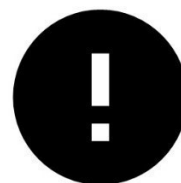
Step 34 / 35

Set the date and time from [SERVICE MENU] > [SUB MENU] > [CLOCK].



Step 35 / 35

If you are unable to transfer the parameters in Peck2, please refer to "When parameters cannot be transferred by Peck2" in the Main Board Replacement section.



LG-645430 Firmware Upgrade

LG-645430 Firmware Upgrade Information

Step 1 / 2

Necessary Tools

一般ツール/General Tool

無し None	
------------	--

特殊治具/Special Tools

無し None	
------------	--

Step 2 / 2

Typical Work Time

作業時間/Typical work time

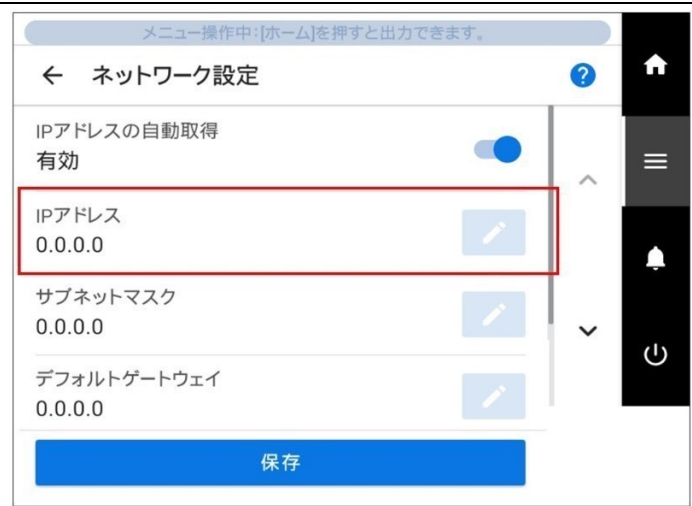
作業内容/Contents of work	時間/Time
ファームウェアアップグレード Firmware Upgrade	10 min.

LG-645430 Firmware Upgrade

LG-645430 Firmware Upgrade Procedure

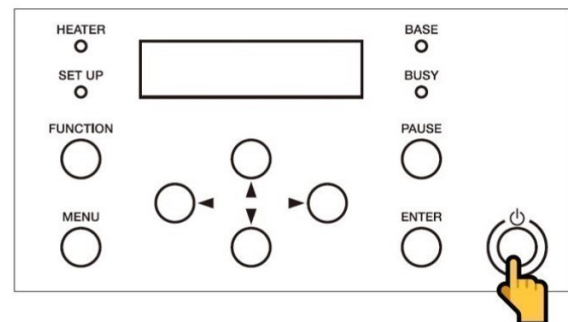
Step 1 / 13

Check the IP address of the printer. Turn on the main power and sub power, and check [Hamburger button] > [Network Settings] > [IP Address] on the panel of the machine.



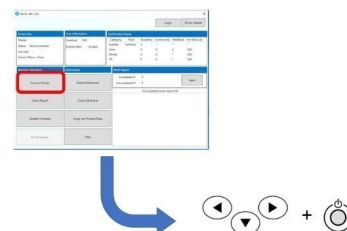
Step 2 / 13

Turn off the sub power.



Step 3 / 13

Connect Peck2 to the machine and enter Service Mode.



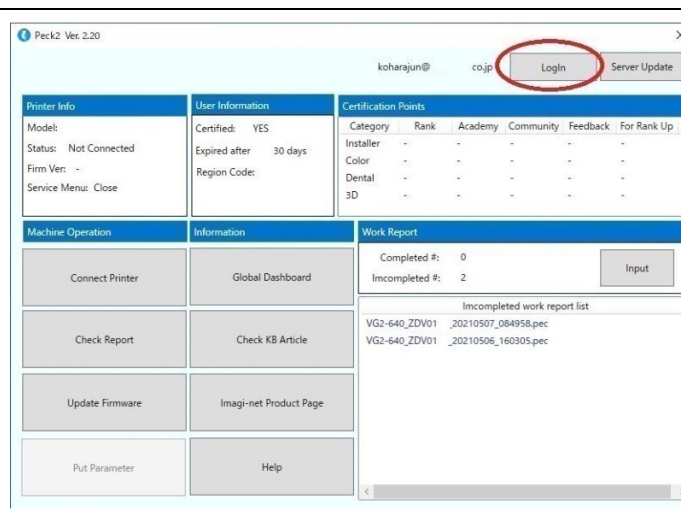
Step 4 / 13

Detail1: Start Peck2.



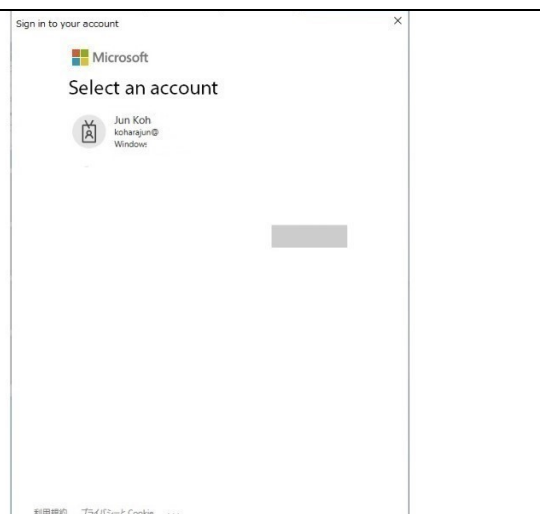
Step 5 / 13

Detail2: Click the [Login] button.



Step 6 / 13

Detail3: Login with your Imagi-net ID.



Step 7 / 13

Detail4: Click the [Connect Printer] button.

Peck2 Ver 2.20

koharjun@ .co.jp Login Server Update

Printer Info		User Information		Certification Points					
Model:		Certified:	YES	Category	Rank	Academy	Community	Feedback	For Rank Up
Status:	Not Connected	Expired after	30 days	Installer	Certified	0	*	*	*
Firm Ver:	-	Region Code:		Color		0	0	0	200
Service Menu:	Close			Dental		0	0	*	200
				3D		0	0	*	200

Machine Operation		Information		Work Report	
Connect Printer	Global Dashboard	Completed #:	0	Input	
Check Report	Check KB Article	Incompleted #:	2		
Update Firmware	Imagi-net Product Page	Incompleted work report list			
Put Parameter	Help	VG2-640_ZDV01 _20210507_084958.pec			
		VG2-640_ZDV01 _20210506_160305.pec			

Step 8 / 13

Detail5: Enter the IP address of the machine you would like to connect to.

Peck2 Ver 2.20

koharjun@ .co.jp Login Server Update

Printer Info		User Information		Certification Points					
Model:		Certified:	YES	Category	Rank	Academy	Community	Feedback	For Rank Up
ConnectPrinter		Expired after	30 days	Installer	Certified	0	*	*	*
Select:	VG2-640 11.129.52			Color		0	0	0	200
Input IP Address:				Dental		0	0	*	200
				3D		0	0	*	200

Machine Operation		Information		Work Report	
Connect	Close	Completed #:	0	Input	
		Incompleted #:	2		
Check Report	Check KB Article	Incompleted work report list			
Update Firmware	Imagi-net Product Page	VG2-640_ZDV01 _20210507_084958.pec			
Put Parameter	Help	VG2-640_ZDV01 _20210506_160305.pec			

Step 9 / 13

Detail6: The printer information will appear in the [Printer Info] section of the Peck2 main screen, confirming that it is connected to the machine.

Peck2 Ver 2.20

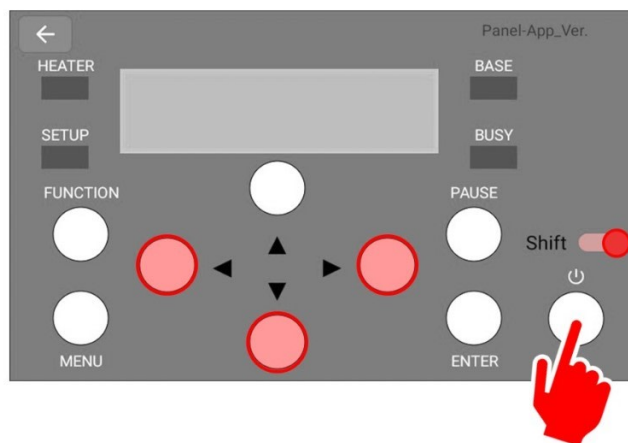
koharjun@ .co.jp Login Server Update

Printer Info		User Information		Certification Points					
Model:	VG2-640_ZDV01	Certified:	YES	Category	Rank	Academy	Community	Feedback	For Rank Up
Status:	UnSetup	Expired after	30 days	Installer	Certified	0	*	*	*
Firm Ver:	2.00			Color		0	0	0	200
Service Menu:	Open			Dental		0	0	*	200
				3D		0	0	*	200

Machine Operation		Information		Work Report	
Connect Printer	Global Dashboard	Completed #:	0	Input	
Check Report	Check KB Article	Incompleted #:	2		
Update Firmware	Imagi-net Product Page	Incompleted work report list			
Put Parameter	Help	VG2-640_ZDV01 _20210507_084958.pec			
		VG2-640_ZDV01 _20210506_160305.pec			

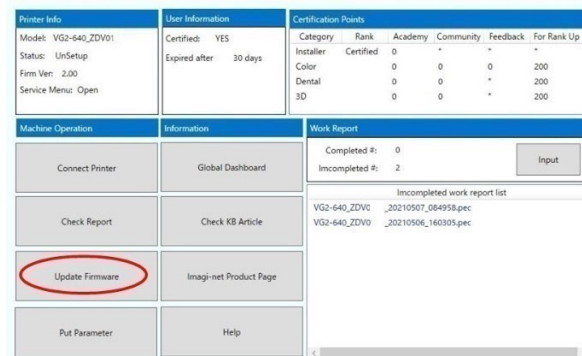
Step 10 / 13

Detail7: Press [Shift] > [□]+[□]+[□]+[Sub Power] to enter Service Mode. By turning on the [Shift] button, multiple buttons can be pressed at the same time.



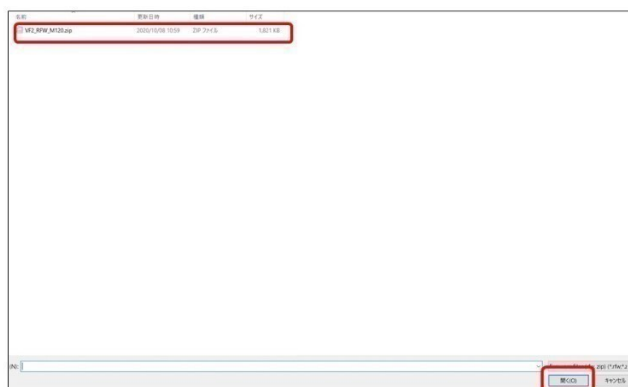
Step 11 / 13

Press the [Update Firmware] button to select the firmware and the firmware will be transferred to the printer.



Step 12 / 13

Detail1: Select the firmware and click the [Open] button to transfer the firmware to the printer.



Step 13 / 13

The machine will automatically enter Firmware Upgrade mode and the sub power will automatically turn off after the upgrade is complete. The upgrade will take at least 5 minutes.

Software Update

Firmware version	1.10
Application version	1.1.8



Now processing.
Do not turn off the power.

Progress... 1/2 (6%)



LG-645430 Limit Position Initialization

LG-645430 Limit Position Initialization Information

Step 1 / 3

□Set the limit position.□If the limit position is not correct, the print head will not be capped, the print carriage will not lock, or other problems will occur.After this adjustment, perform the "flushing position adjustment".



Step 2 / 3

Necessary Tools

一般ツール/General Tool

無し None	
------------	--

特殊治具/Special Tools

無し None	
------------	--

Step 3 / 3

Typical work time

作業時間/Typical work time

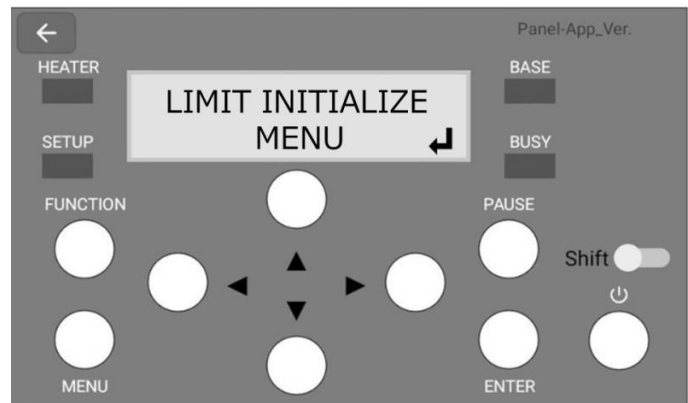
作業内容/Contents of work	時間/Time
リセット位置調整 Limit position adjustment	15 min.

LG-645430 Limit Position Initialization

LG-645430 Limit Position Initialization Procedure

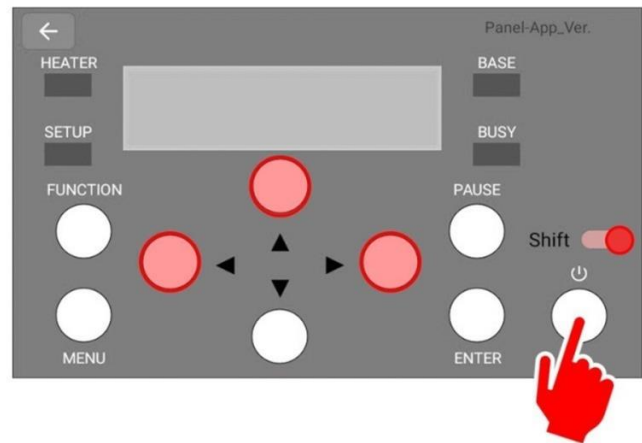
Step 1 / 4

Enter Limit position initialization mode.



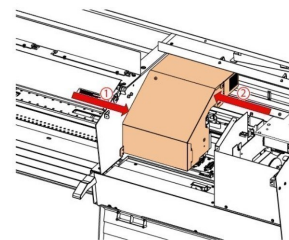
Step 2 / 4

Detail1: On the Service Mode screen, press [Shift], then press [] + [] + [] keys, then press the sub power supply.

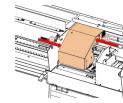


Step 3 / 4

Lock the print head carriage. Confirm that the print head carriage is locked by pushing it lightly to the left to eliminate

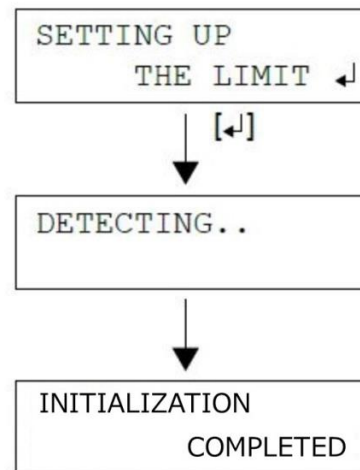


looseness.



Step 4 / 4

Confirm that it is locked in the correct position and press [ENTER]. Limit position initialization starts. After initialization is completed, a message is displayed.



LG-645430 Belt Tension Adjustment

LG-645430 Belt Tension Adjustment Information

Step 1 / 4

Perform belt position adjustment.



Step 2 / 4

Necessary Tools

一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
六角レンチ 3.0mm 3.0mm hexagonal wrench	
スケール (定規) Ruler	

Step 3 / 4

Special Tools

特殊治具/Special Tools



Step 4 / 4

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
ベルトテンション調整 Belt Tension Adjustment	40 min.

LG-645430 Belt Tension Adjustment

LG-645430 Belt Tension Adjustment Procedure

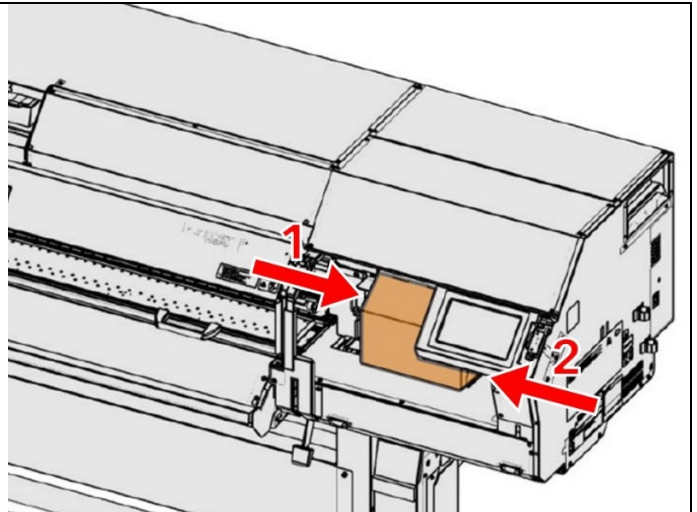
Step 1 / 16

Open the left and right maintenance covers.



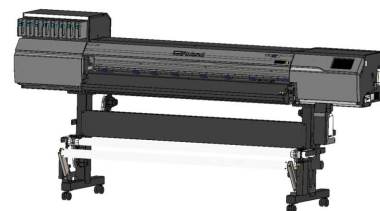
Step 2 / 16

Lock the print head carriage. After that confirm that it is locked by pushing the carriage lightly to the left to eliminate looseness.



Step 3 / 16

Using a tension gauge, measure the tension of the belt at a position that suits the model.



Step 4 / 16

Detail1: For LG-640/540, the measurement is taken at the center of the fourth grit roll from the right.



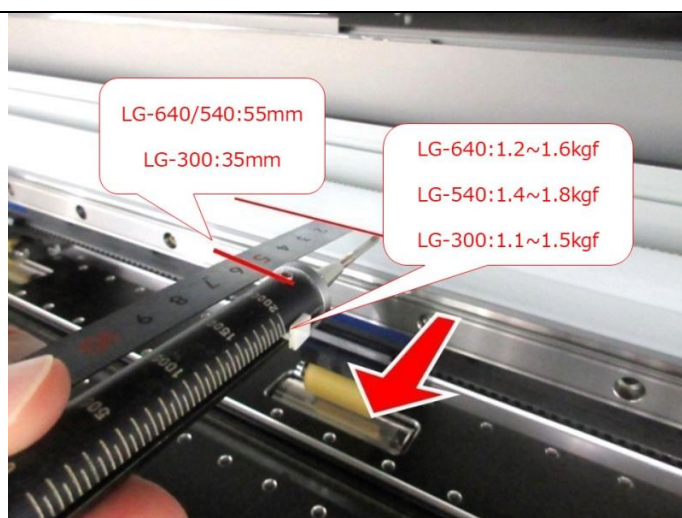
Step 5 / 16

Detail2: For LG-300, the measurement is taken at the center of the second pinch roll from the right.



Step 6 / 16

Measure the tension when the lower surface of the belt is pulled up to indicated position from the rail mounting metal plate. If the measured value is within the range, it is considered to be the correct tension.



Step 7 / 16

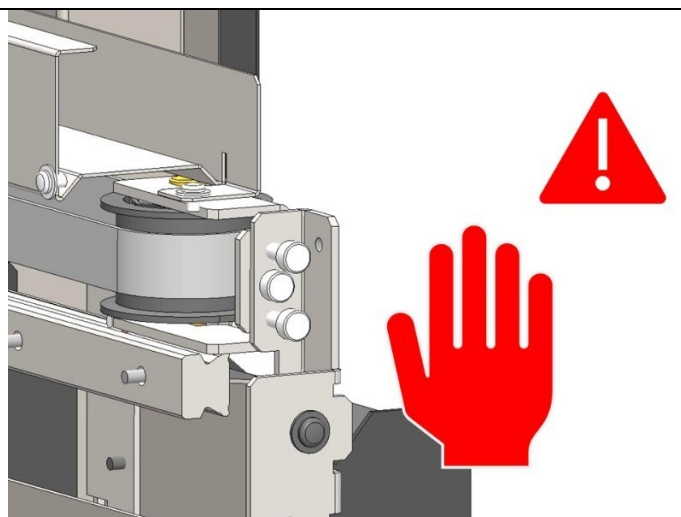
If the measured value is out of range, proceed to the next step. If the measured value is within the range, the work is complete. Perform belt position adjustment.

測定結果/Measurement Result

機種/Machine	測定値/Measurement Value	判定/Judge	次の作業/Next step
LG-640	~1.19kgf	Not Good	To the next step
	1.2~1.6kgf	OK	To Belt Position Adjustment
	1.61kgf~	Not Good	To the next step
LG-540	~1.39kgf	Not Good	To the next step
	1.4~1.8kgf	OK	To Belt Position Adjustment
	1.81kgf~	Not Good	To the next step
LG-300	~1.09kgf	Not Good	To the next step
	1.1~1.5kgf	OK	To Belt Position Adjustment
	1.51kgf~	Not Good	To the next step

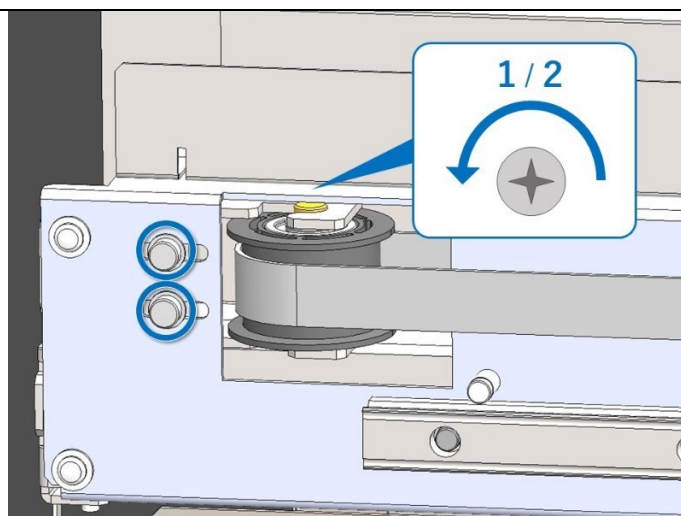
Step 8 / 16

Be careful of surrounding protrusions and other objects when turning the screws. It may cause injury.



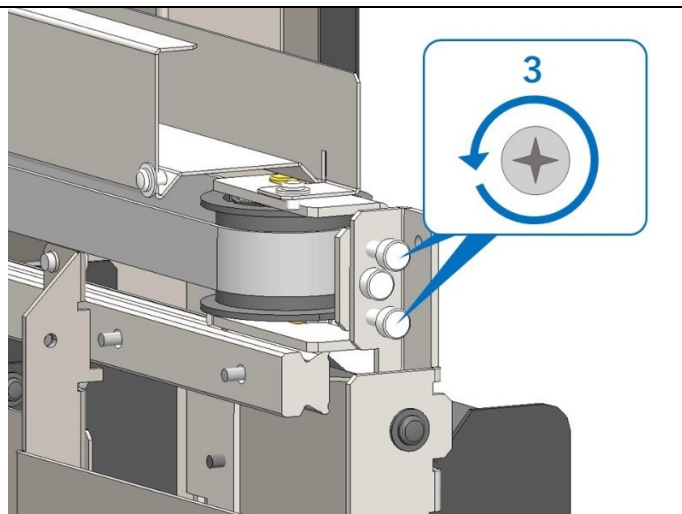
Step 9 / 16

Loosen the 2 fixing screws at the left end of the belt by about a half turn.



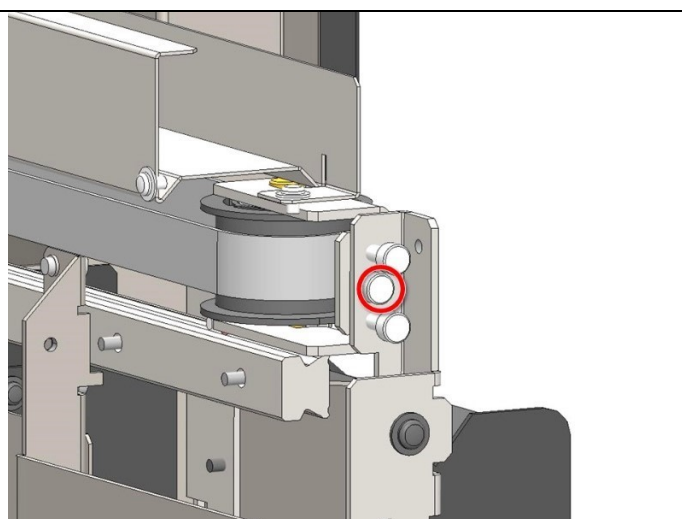
Step 10 / 16

Loosen the adjustment screws (2 places) about 3 times to create a gap of about 3 mm between the screw tips and the idle pulley holder. If they are in contact, no more tension can be applied.



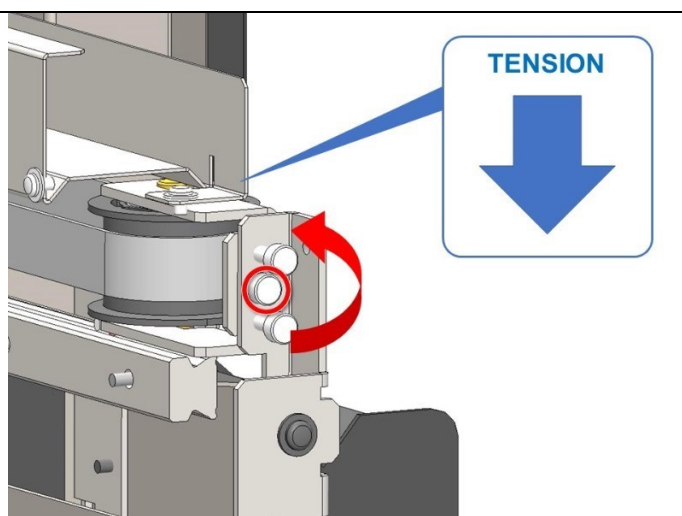
Step 11 / 16

Turn the adjustment screw and adjust the value of the tension gauge so that it is within the proper range according to the measurement method.



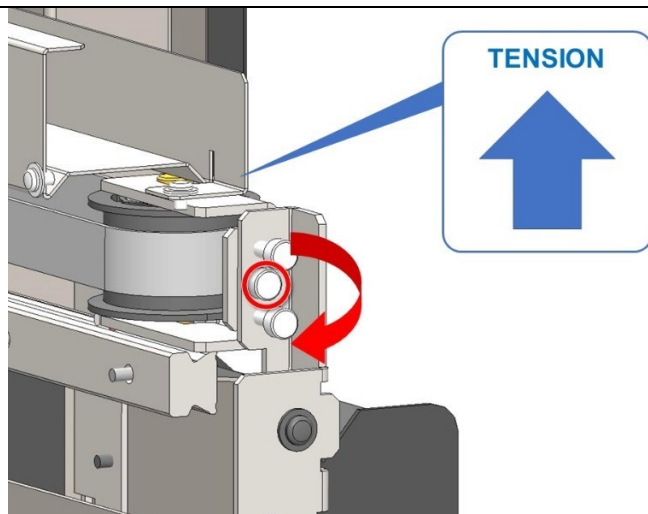
Step 12 / 16

Detail1: Turn the screw counterclockwise: Tension is decreased.



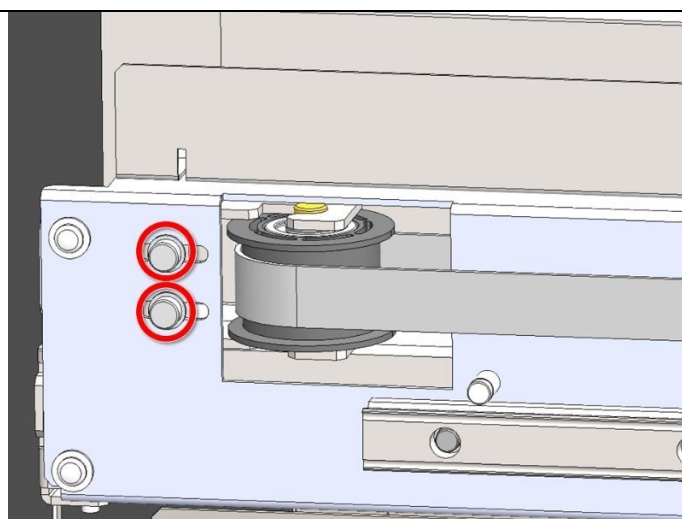
Step 13 / 16

Detail2: Turn the screw clockwise:
Tension is increased.



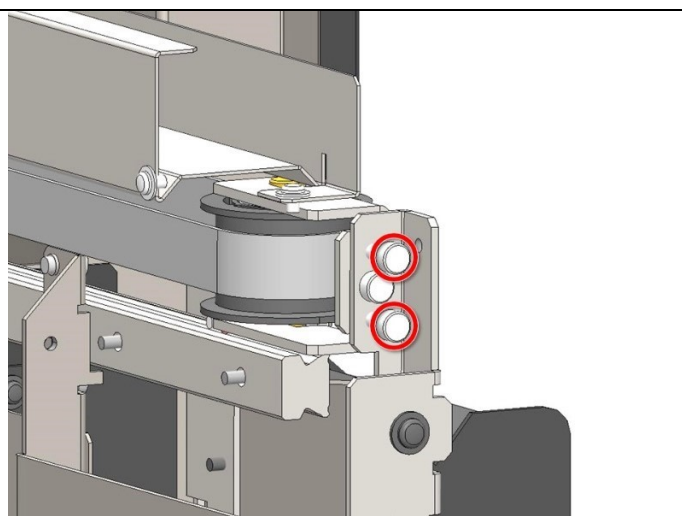
Step 14 / 16

Tighten the fixing screws (2 places) and
check again that the tension is within
the proper range.



Step 15 / 16

Tighten the adjustment screws (2 places)
until they lightly touch the idle pulley
holder. Be careful not to tighten the
screws too tightly, as this may cause the
fixed idle pulley holder to move.



Step 16 / 16

The work is complete. Perform belt position adjustment.



次の手順

ベルト位置調整

Next Step

Belt Position Adjustment

LG-645430 Belt Position Adjustment

LG-645430 Belt Position Adjustment

Information

Step 1 / 8

General tools

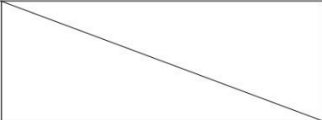
一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
六角レンチ 3.0 mm 3.0 mm hexagonal wrench	

Step 2 / 8

Special tools

特殊治具/Special Tools

なし None	
------------	---

Step 3 / 8

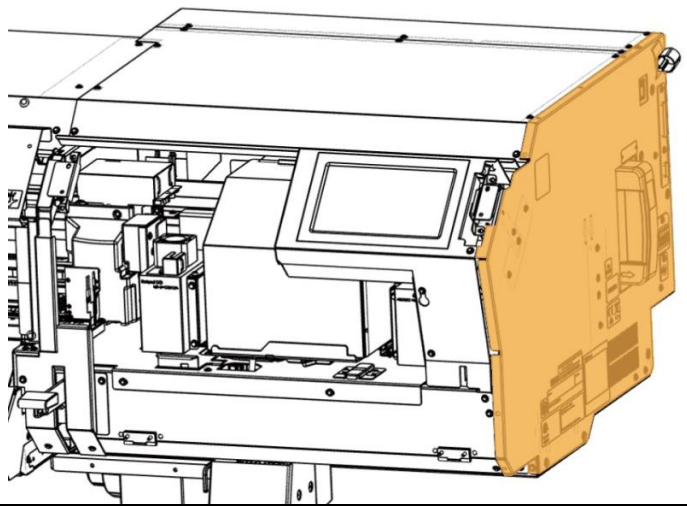
Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
キヤリッジベルト位置調整 Carriage Belt Position Adjustment	50 min.

Step 4 / 8

Cover that needs to be removed



Step 5 / 8

Detail1: Screws to be removed



Step 6 / 8

Detail2: Screws to be removed



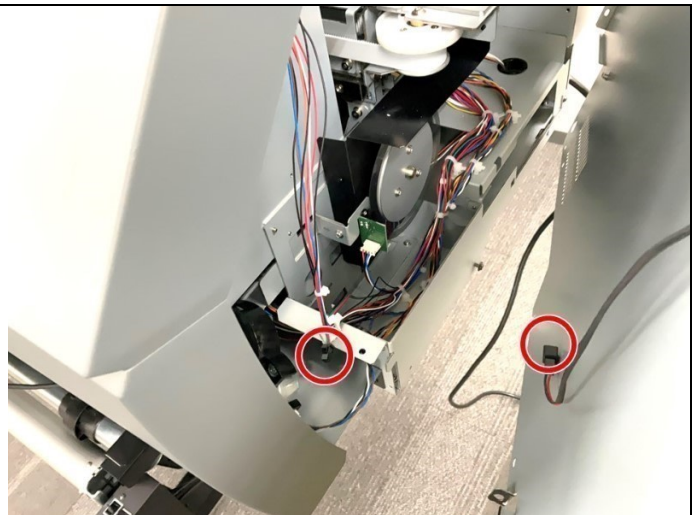
Step 7 / 8

Detail3: Screws to be removed



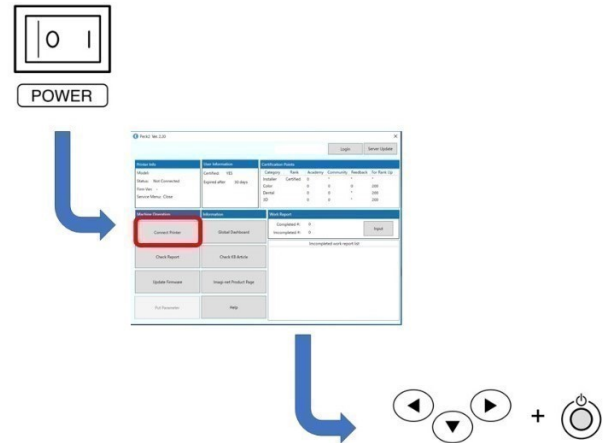
Step 8 / 8

Detail4: It is necessary to disconnect the connector of the cover sensor.



LG-645430 Belt Position Adjustment Procedure

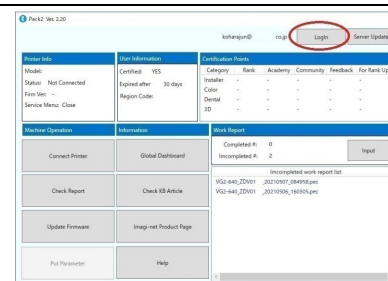
Connect Peck2 to the machine and enter the service mode.



Detail1: Start Peck2.



Detail2: Click the [Login] button.



Step 4 / 52

Detail3: Log in with Imagi-net ID.

Sign in to your account

Microsoft

Select an account



Jun Koh
koharajun@
Window

利用規約

プライバシーと Cookie

...

Step 5 / 52

Detail4: Click the [Connect Printer] button.

Peck2 Ver. 2.20

koharajun@

co.jp

Login

Server Update

Printer Info

Model: VG2-640_ZDV01

Status: Not Connected

Firm Ver: -

Service Menu: Close

User Information

Certified: YES

Expired after: 30 days

Region Code: -

Certification Points

Category	Rank	Academy	Community	Feedback	For Rank Up
Installer	-	-	-	-	-
Color	-	-	-	-	-
Dental	-	-	-	-	-
3D	-	-	-	-	-

Machine Operation

Connect Printer

Check Report

Update Firmware

Put Parameter

Information

Global Dashboard

Check KB Article

Imagi-net Product Page

Help

Work Report

Completed #: 0

Input

Imcompleted #: 2

Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Step 6 / 52

Detail5: When the printer is connected, printer information is shown in [Printer Info].

Peck2 Ver. 2.20

koharajun@

co.jp

Login

Server Update

Printer Info

Model: VG2-640_ZDV01

Status: UnSetup

Firm Ver: 2.00

Service Menu: Open

User Information

Certified: YES

Expired after: 30 days

Certification Points

Category	Rank	Academy	Community	Feedback	For Rank Up
Installer	Certified	0	*	*	*
Color	0	0	0	200	
Dental	0	0	*	200	
3D	0	0	*	200	

Machine Operation

Connect Printer

Check Report

Update Firmware

Put Parameter

Information

Global Dashboard

Check KB Article

Imagi-net Product Page

Help

Work Report

Completed #: 0

Input

Imcompleted #: 2

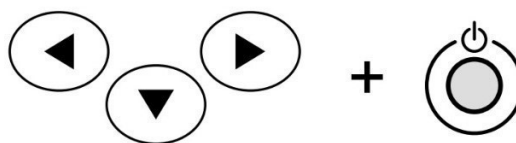
Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

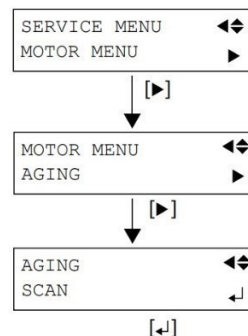
Step 7 / 52

Detail6: Touch [SERVICE MODE], then press [Shift]+[□]□[□]+[Power] to enter the service mode.



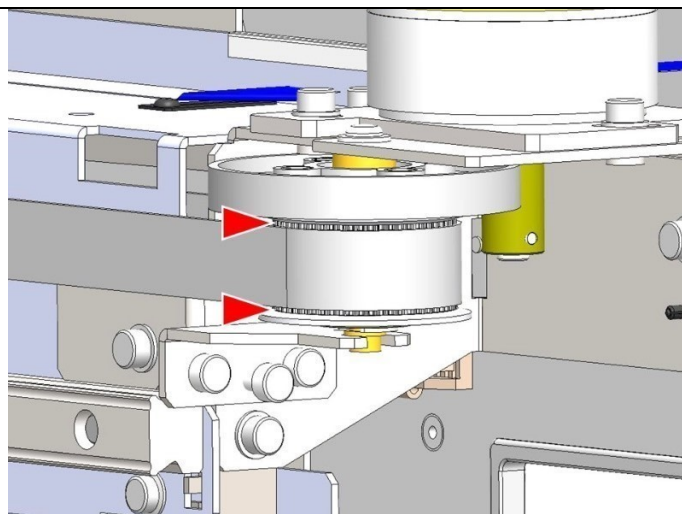
Step 8 / 52

Perform the scan motor aging. Select [MOTOR MENU] > [AGING] > [SCAN] and press the [ENTER] key.



Step 9 / 52

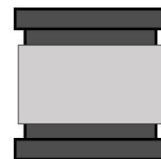
Check the position of the belt. If the belt is not excessively contacting the flange of the drive pulley, the position is proper.



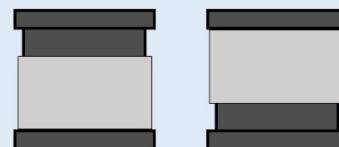
Step 10 / 52

If there is only partial contact, it is considered acceptable. If the position is proper, no adjustment is necessary. Continue with aging and move on to [Adjustment on idle pulley side]. If it is not proper, adjust the position according to the following procedure.

OK



No good



Step 11 / 52

Press the [ENTER] key to finish aging.

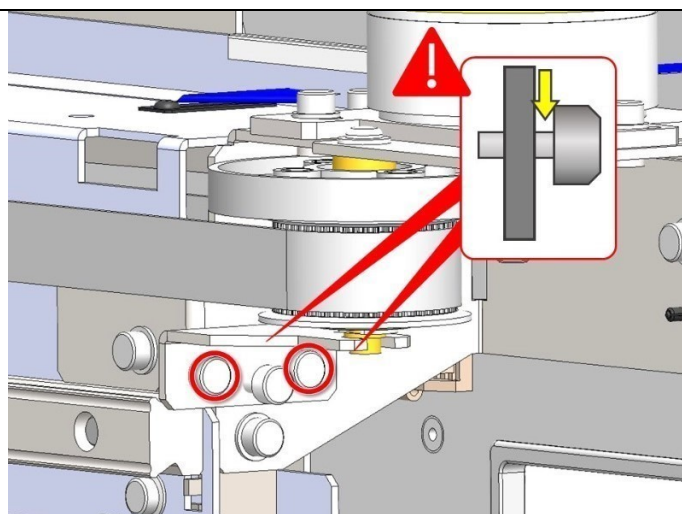
SCAN
NOW AGING



[↵]

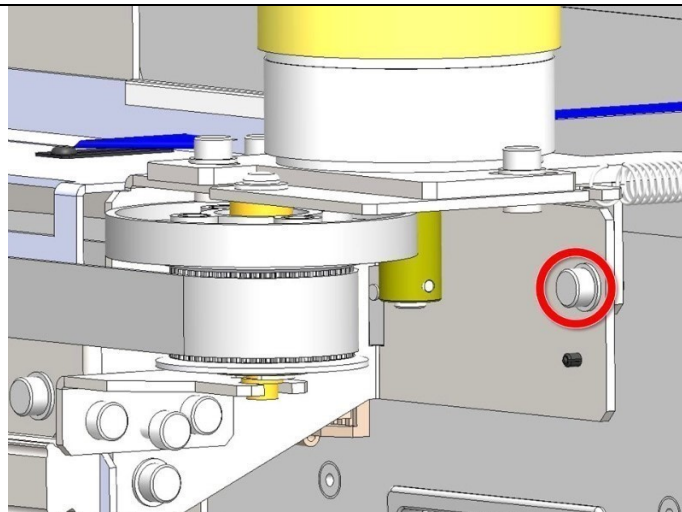
Step 12 / 52

Loosen the two fixing screws at the right end of the belt to the extent that the drive pulley stay shaft and the seat of the fixing screws do not come into contact.



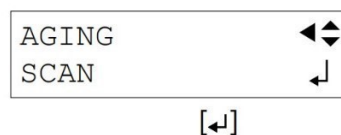
Step 13 / 52

Loosen the fixing screw at the bottom of the scan motor by about half a turn.



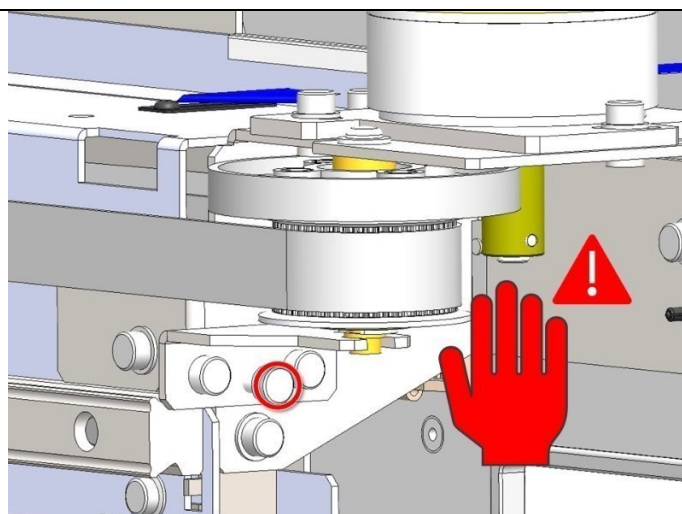
Step 14 / 52

Press the [ENTER] key to perform aging of the scan motor again.



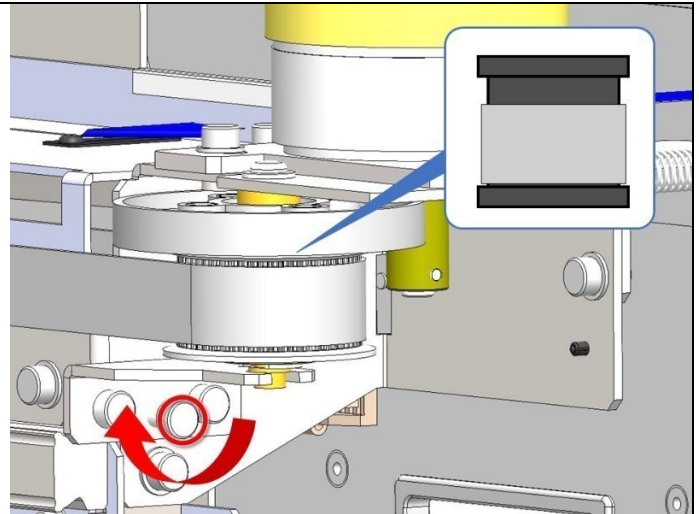
Step 15 / 52

Turn the adjustment screw and adjust the position of the belt referring to the following. The work space is small, so be careful not to get your hands on the rotating pulley or belt.



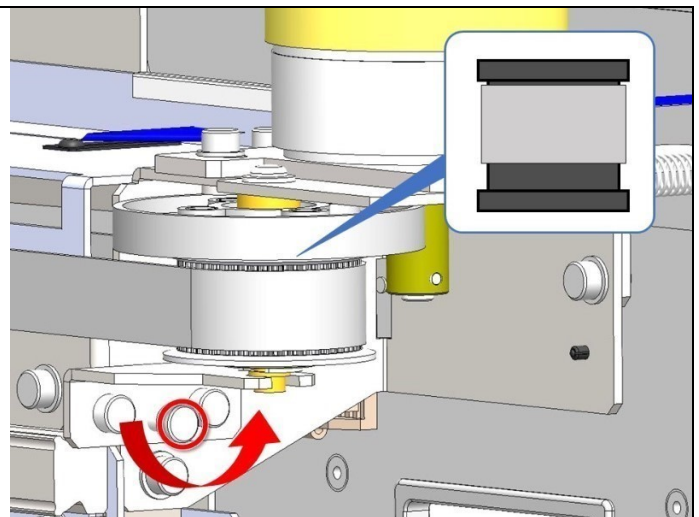
Step 16 / 52

Detail1: If the belt is close to the bottom of the main body, turn the adjustment screw clockwise (tightening direction) little by little.



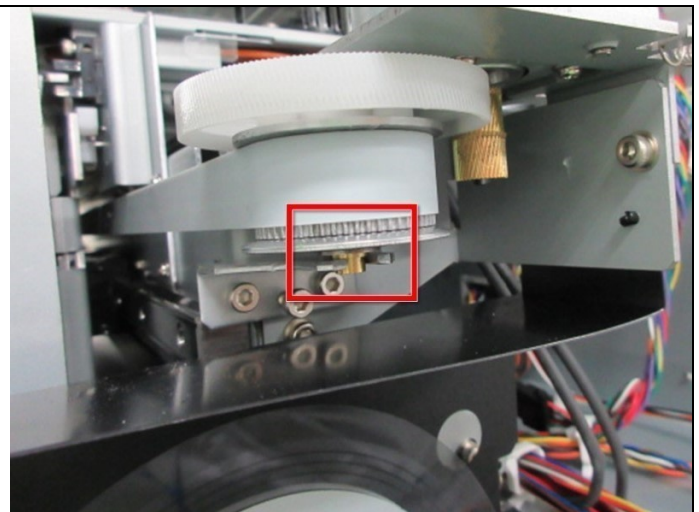
Step 17 / 52

Detail2: If the belt is close to the upper side of the main body, turn the adjustment screw counterclockwise (loosening direction) little by little.



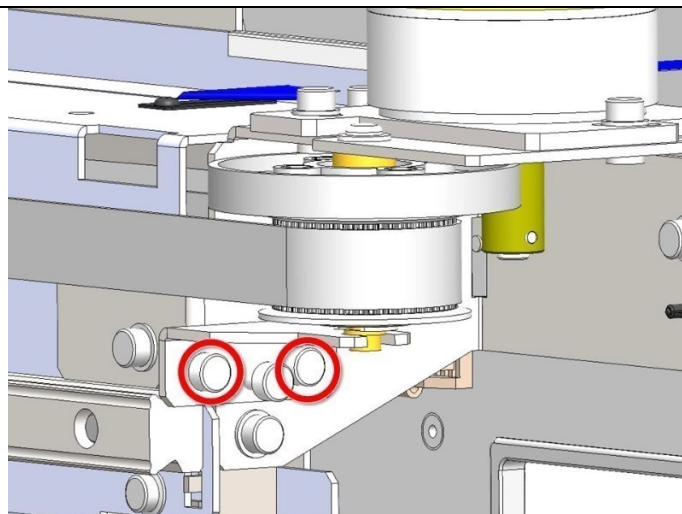
Step 18 / 52

Make sure that the shaft is not detached from the stay.



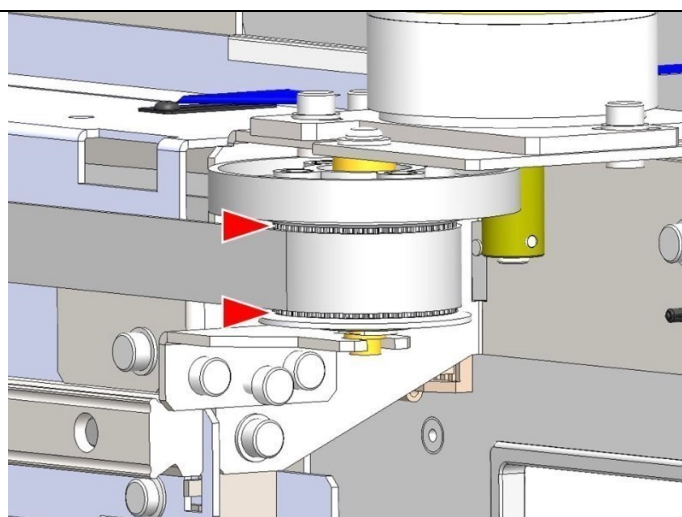
Step 19 / 52

Tighten two fixing screws. Be careful not to tighten too much, as this may cause the adjusted pulley to move.



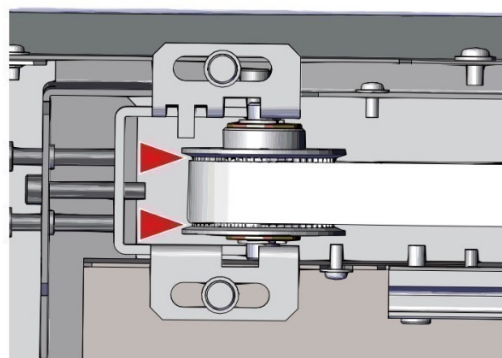
Step 20 / 52

Check that the belt is not in excessive contact with the pulley flange. If the belt is in excessive contact with the pulley flange, make the adjustment again. When the belt is properly positioned, continue with aging and proceed to [Adjustment on idle pulley side].



Step 21 / 52

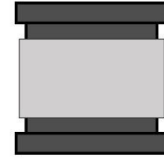
Check the position of the belt.



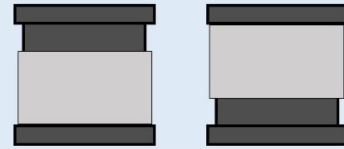
Step 22 / 52

Check that the belt is not in excessive contact with the pulley flange. If there is only partial contact, it is considered acceptable. If the position is proper, no adjustment is complete. If not, perform the following adjustment.

OK



No good



Step 23 / 52

Press the [ENTER] key to finish aging.

SCAN

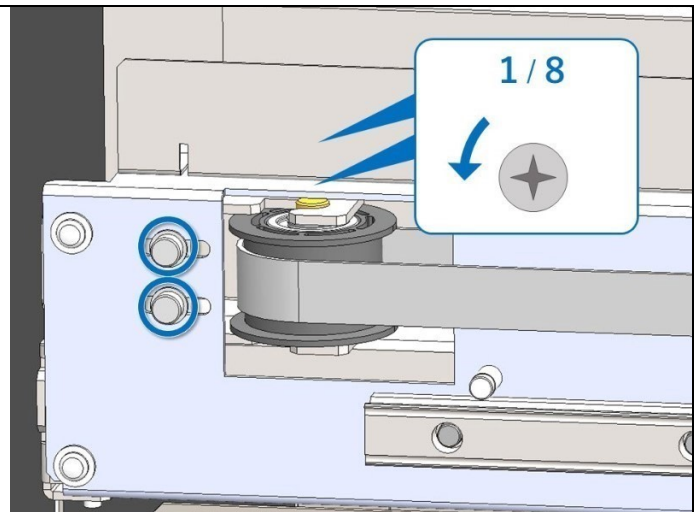
NOW AGING



[↵]

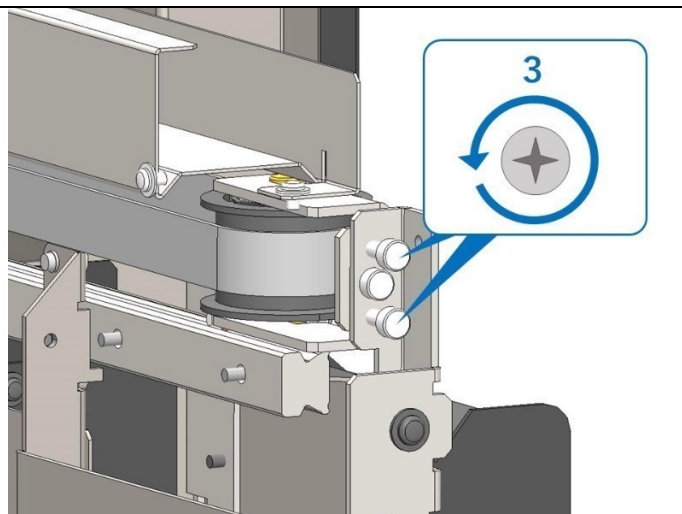
Step 24 / 52

Loosen the two fixing screws at the left end of the belt about 1/8 to a quarter turn. If you loosen the screws too much it will make it difficult to adjust the belt position. Also, be careful of surrounding protrusions and other objects when turning the screws. It may cause injury.



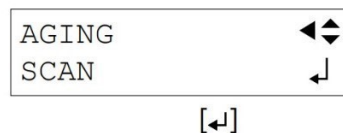
Step 25 / 52

Loosen the adjustment screws (2 places)
3 times to create a gap between the
screw tips and the idle pulley holder.



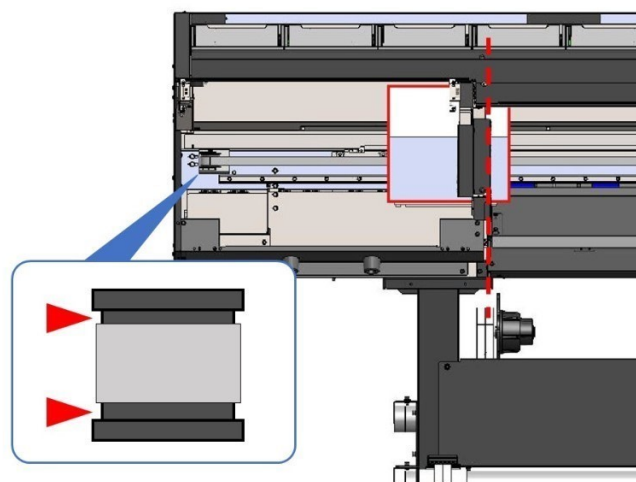
Step 26 / 52

Press the [ENTER] key to perform the
scan motor aging again.



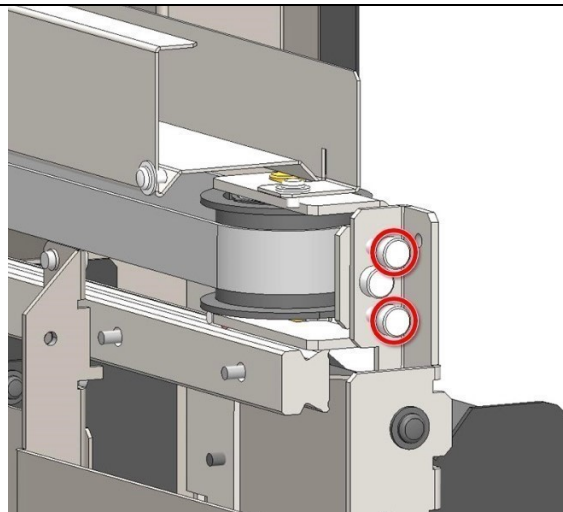
Step 27 / 52

With the print head carriage being on
the platen, if there is any point where
the belt does not make contact with the
idle pulley flange, the adjustment is
complete. (It is not necessary for the belt
to be away from the flange at all times.)



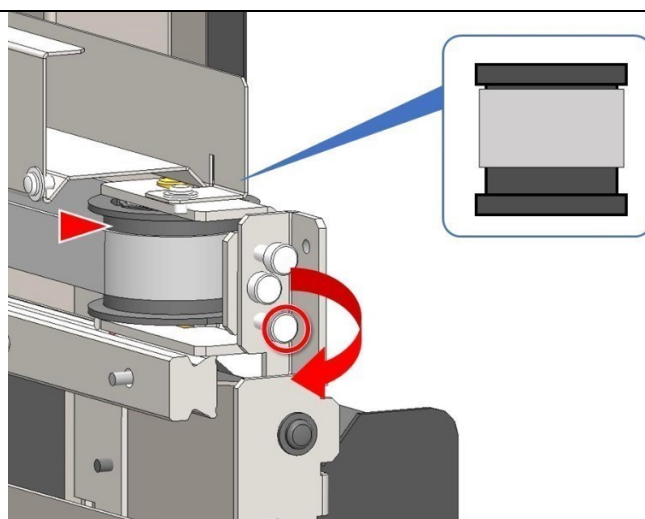
Step 28 / 52

Turn the adjustment screw to adjust the position of the belt, referring to the following. There are no grooves on the pulleys, and the belt tends to slide up and down, so adjust slowly.



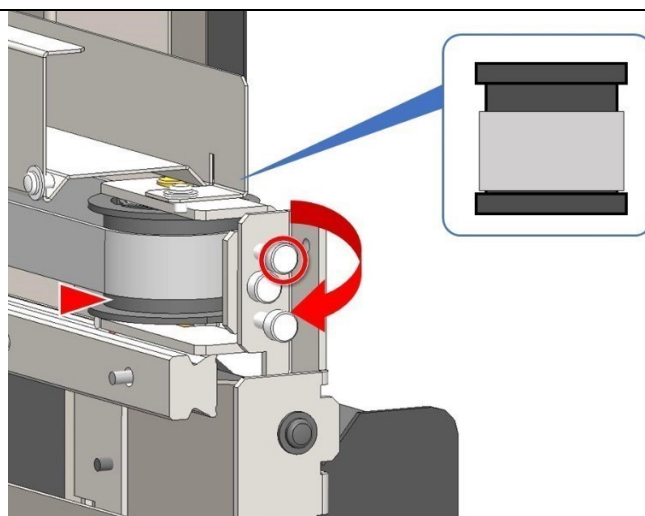
Step 29 / 52

Detail1: If the belt is close to the upper side of the main body, turn the adjustment screw (bottom) clockwise slightly and press it against the idle pulley holder.



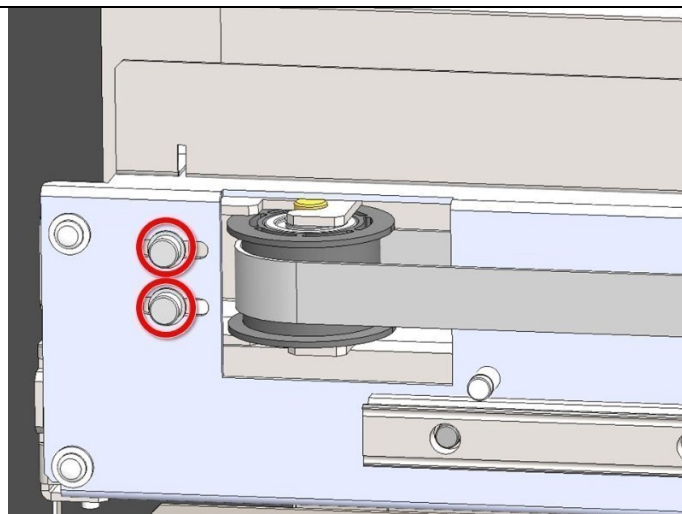
Step 30 / 52

Detail2: If the belt is close to the underside of the main body, turn the adjustment screw (top) clockwise slightly and press it against the idle pulley holder.



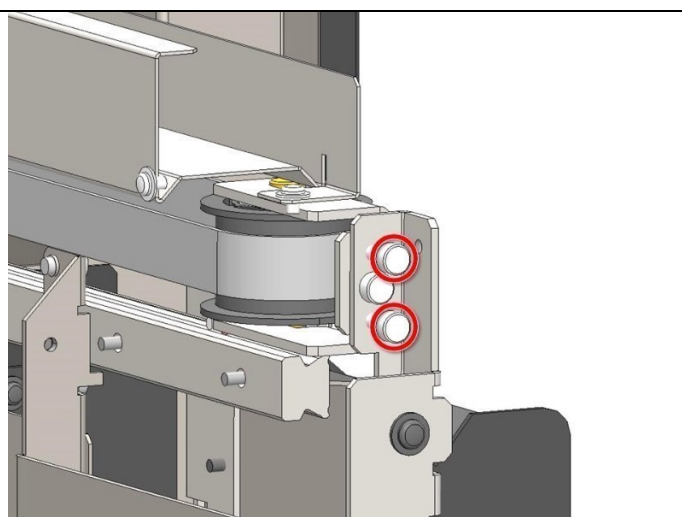
Step 31 / 52

Detail2: Tighten two fixing screws.



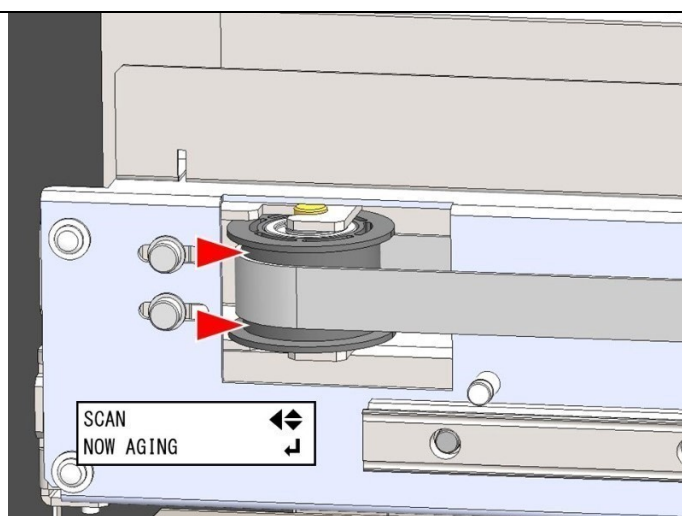
Step 32 / 52

Detail3: Tighten the one of the adjustment screws that is not in contact with the idle pulley holder to the point where it lightly contacts the idle pulley holder. If the tightening force is too strong, it may cause the idle pulley holder to move.



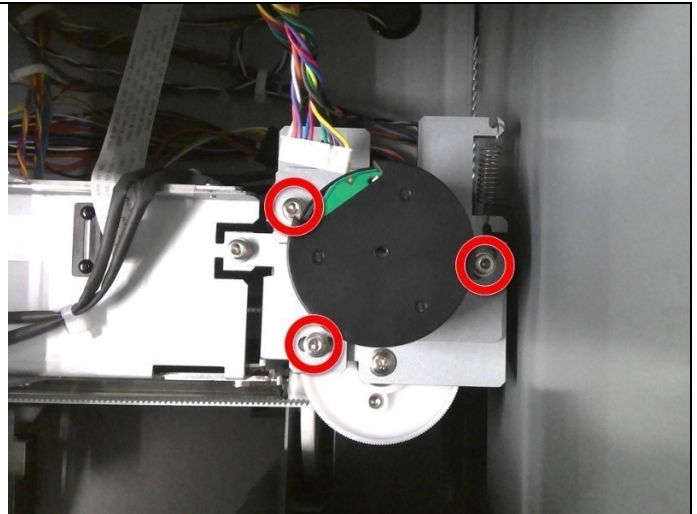
Step 33 / 52

Press the [ENTER] key to finish aging.



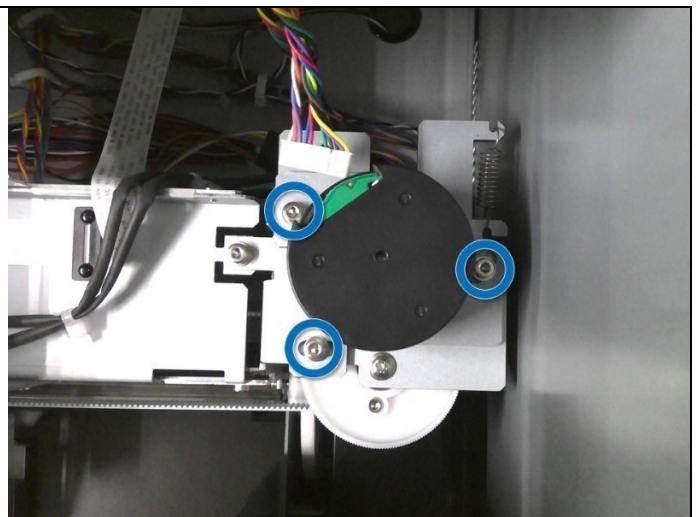
Step 34 / 52

Loosen the scan motor fixing screws (3 places) once, move the carriage to the left and right, and then retighten the screws.



Step 35 / 52

Detail1: Loosen the fixing screws (3 places) of the scan motor once.



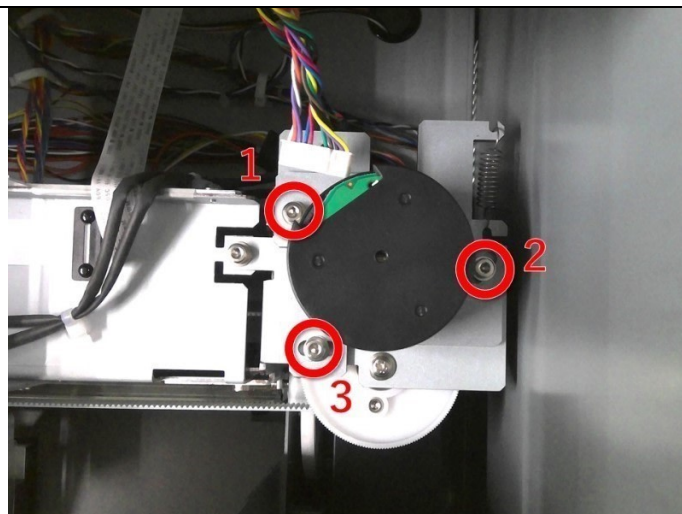
Step 36 / 52

Move the carriage left and right by hand to make sure the gears are engaged. Do not perform aging for this check.



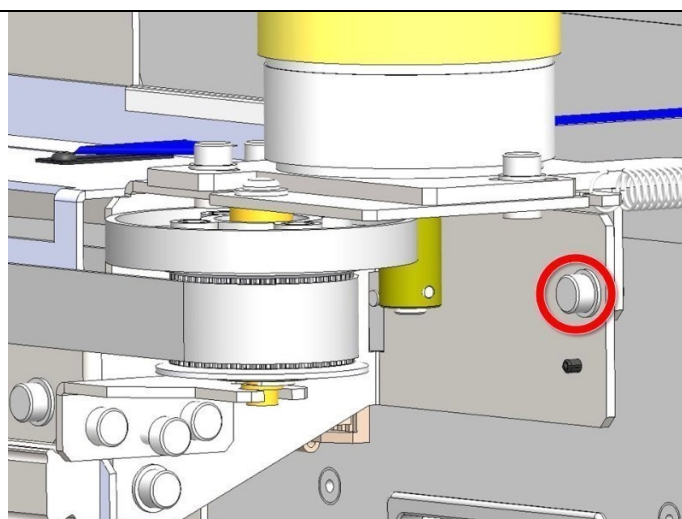
Step 37 / 52

Tighten the screws according to the order shown.



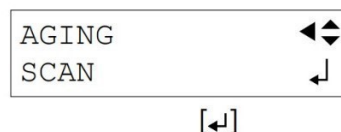
Step 38 / 52

Tighten the fixing screws on the bottom of the scan motor.



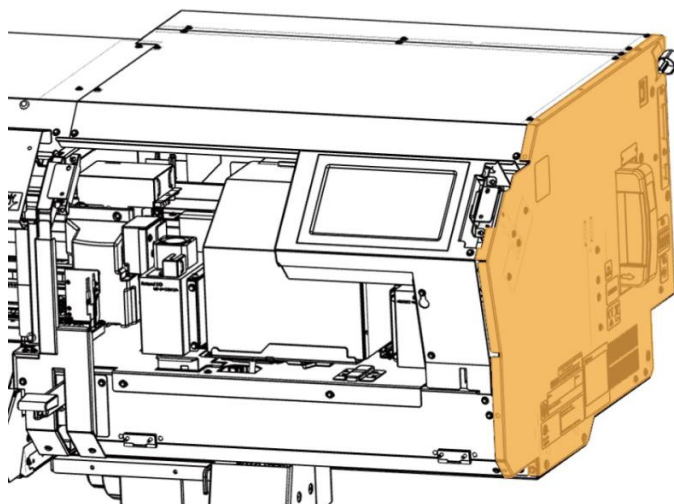
Step 39 / 52

Press the [ENTER] key to perform scan motor aging again. If the belt does not come into excessive contact with the idle pulley flange, the position is proper. The belt position adjustment is completed.



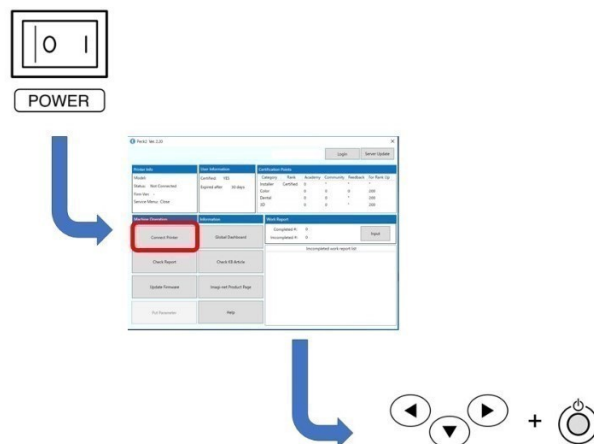
Step 40 / 52

Attach the cover.



Step 41 / 52

Connect Peck2 to the machine and enter the service mode.



Step 42 / 52

Detail1: Plug the power cord and turn on the power.



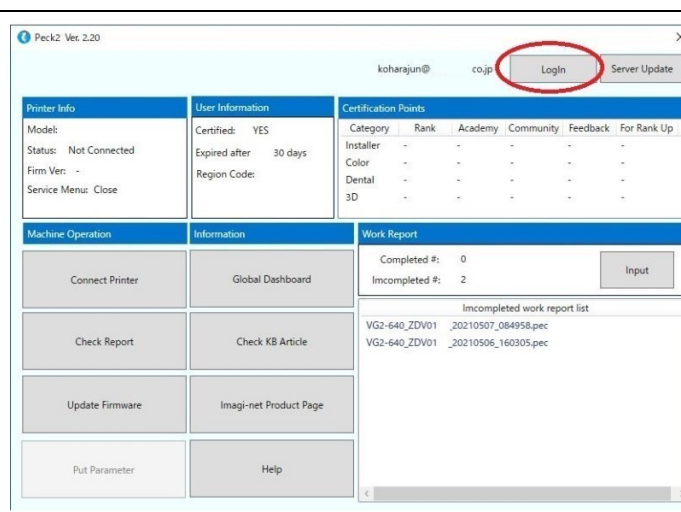
Step 43 / 52

Detail2: Start Peck2.



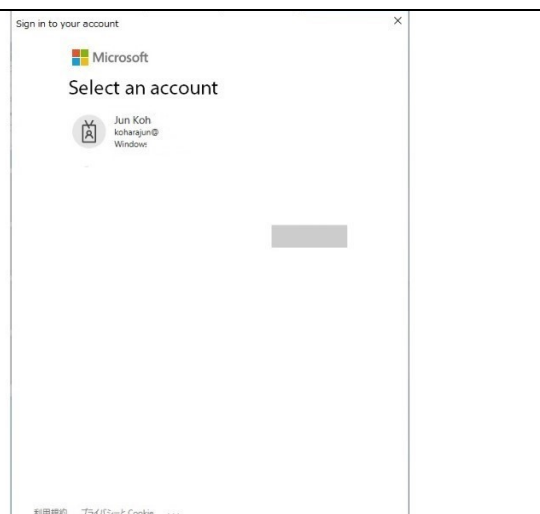
Step 44 / 52

Detail3: Click the [Login] button.



Step 45 / 52

Detail4: Log in with Imagi-net ID.



Step 46 / 52

Detail5: Click the [Connect Printer] button.

The screenshot shows the Peck2 Ver. 2.20 interface. The 'Machine Operation' section has a 'Connect Printer' button highlighted with a red circle. Other buttons include 'Check Report', 'Update Firmware', 'Put Parameter', 'Global Dashboard', 'Check KB Article', 'Imagi-net Product Page', and 'Help'. The 'User Information' section shows 'Certified: YES', 'Expired after: 30 days', and 'Region Code:'. The 'Certification Points' table is also visible.

Category	Rank	Academy	Community	Feedback	For Rank Up
Installer	-	-	-	-	-
Color	-	-	-	-	-
Dental	-	-	-	-	-
3D	-	-	-	-	-

Model	Rank	Academy	Community	Feedback	For Rank Up
VG2-640_ZDV01	0	0	0	0	200
VG2-640_ZDV0	0	0	0	0	200
3D	0	0	0	0	200

Step 47 / 52

Detail6: Enter IP address of the machine to be connected.

The screenshot shows the Peck2 Ver. 2.20 interface with the 'Connect Printer' dialog box open. The dialog box has a 'Select' dropdown menu showing 'VG2-640' and '11.129.52'. Below it is an 'Input IP Address' field. The 'Connect' and 'Close' buttons are at the bottom of the dialog box.

Step 48 / 52

Detail7: When the printer is connected, printer information is shown in [Printer Info].

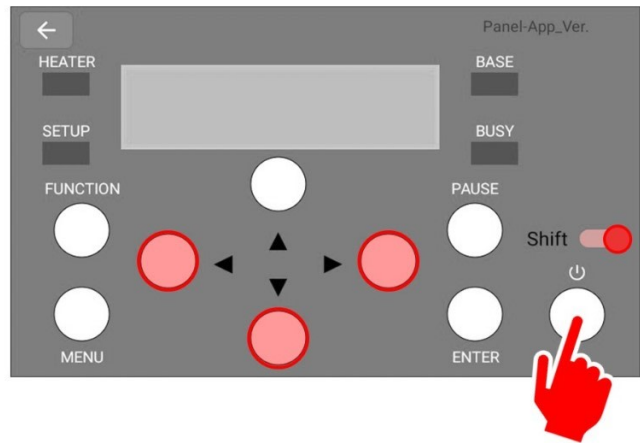
The screenshot shows the Peck2 Ver. 2.20 interface with the 'Printer Info' section highlighted with a red box. The 'Printer Info' section shows 'Model: VG2-640_ZDV01', 'Status: UnSetup', 'Firm Ver: 2.00', and 'Service Menu: Open'. The 'User Information' section shows 'Certified: YES', 'Expired after: 30 days', and 'Region Code:'. The 'Certification Points' table is also visible.

Category	Rank	Academy	Community	Feedback	For Rank Up
Installer	Certified	0	*	*	*
Color	0	0	0	0	200
Dental	0	0	0	0	200
3D	0	0	0	0	200

Model	Rank	Academy	Community	Feedback	For Rank Up
VG2-640_ZDV01	0	0	0	0	200
VG2-640_ZDV0	0	0	0	0	200
3D	0	0	0	0	200

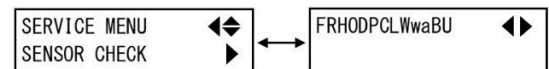
Step 49 / 52

Detail8: Touch [SERVICE MODE], then press [Shift]+[□]□[□]+[Power] to enter the service mode.



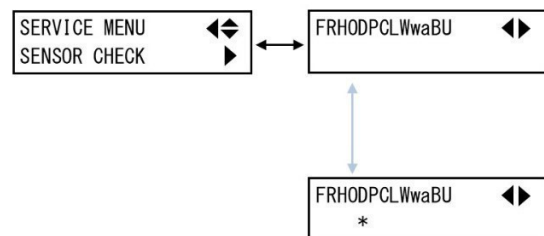
Step 50 / 52

Select [SERVICE MENU] > [SENSOR CHECK] and check if the cover sensor is responding correctly.



Step 51 / 52

Detail1: Check if there is an asterisk (*) under the monitor display "D", and if so, perform adjustment.



Step 52 / 52

Detail2: Loosen the screw and adjust the cover sensor back and forth.



LG-645430 Linear Encoder Setup

LG-645430 Linear Encoder Setup

Information

Step 1 / 2

Necessary tools

一般ツール/General Tool

無し None	
------------	--

特殊治具/Special Tools

無し None	
------------	--

Step 2 / 2

Typical work time

作業時間/Typical work time

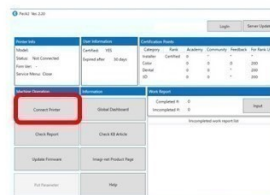
作業内容/Contents of work	時間/Time
リニアエンコーダー位置設定 Linear encoder setup	5 min.

LG-645430 Linear Encoder Setup

LG-645430 Linear Encoder Setup Procedure

Step 1 / 12

Start Peck2.



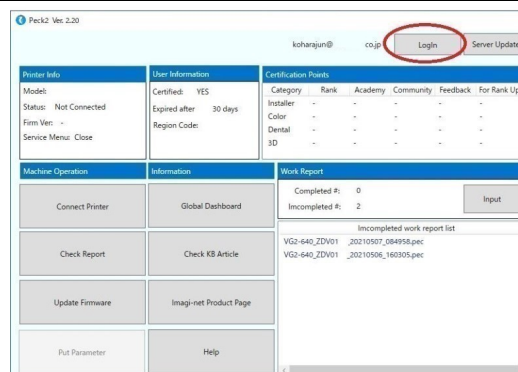
Step 2 / 12

Detail1: Click the [Login] button.



Step 3 / 12

Detail2: Log in with Imagi-net ID.

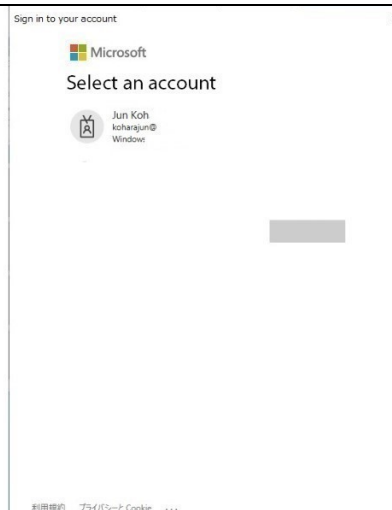


Friday, July 4, 2025 6:36 AM

Language: en

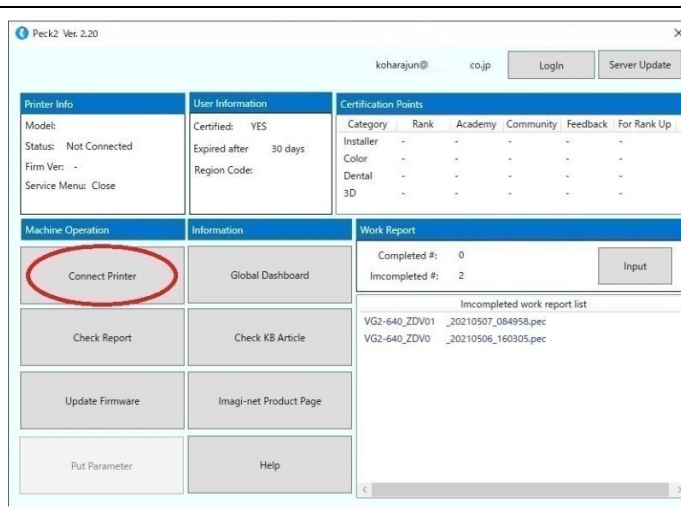
Step 4 / 12

Detail3: Click the [Connect Printer] button.



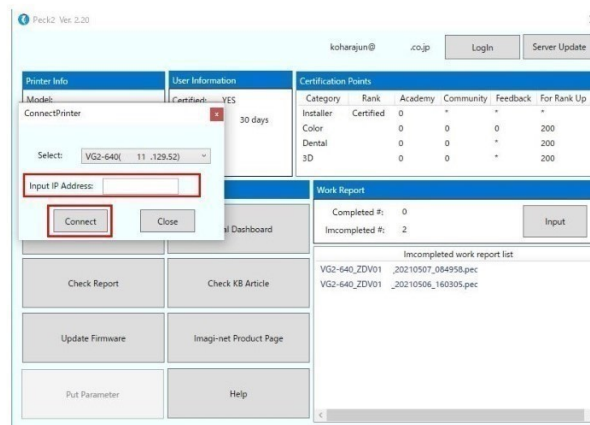
Step 5 / 12

Detail4: Enter IP address of the machine to be connected.



Step 6 / 12

Detail5: Enter IP address of the machine to be connected.

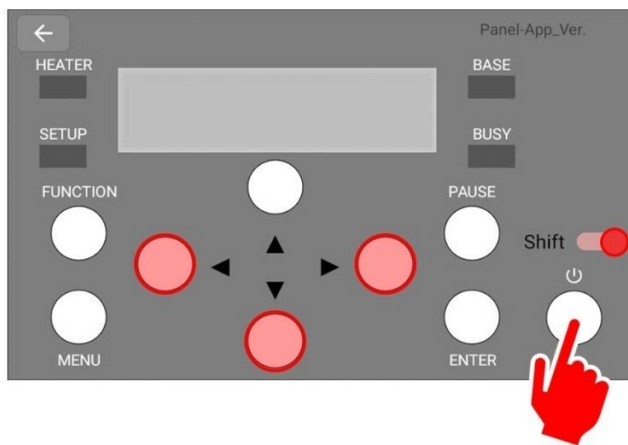


Detail6: When the printer is connected, printer information is shown in [Printer Info].

The screenshot displays the Veeam Backup & Replication console interface. At the top, the title bar shows 'Veeam Backup & Replication' and the version 'Ver. 2.20'. The main window is divided into several sections. On the left, a sidebar contains a tree view with 'Printer Info' selected and highlighted with a red rectangle. The main area is divided into three tabs: 'Printer Info', 'User Information', and 'Certification Points'. The 'Printer Info' tab is active, showing details for a printer named 'VG2-640_ZDV01'. Below the printer details, there are four buttons: 'Connect Printer', 'Check Report', 'Update Firmware', and 'Put Parameter'. The 'Check Report' button is highlighted with a red rectangle. The 'User Information' tab shows 'Certified: YES' and 'Expired after: 30 days'. The 'Certification Points' tab shows a table with columns: Category, Rank, Academy, Community, Feedback, and For Rank Up. The table contains data for 'Installer', 'Color', 'Dental', and '3D'. At the bottom, there is a section for 'Completed work report list' showing two reports for 'VG2-640_ZDV01'.

Category	Rank	Academy	Community	Feedback	For Rank Up
Installer	0	*	*	*	*
Color	0	0	0	0	200
Dental	0	0	0	0	200
3D	0	0	0	*	200

Detail7: Press [Shift] > [□] + [□] + [□] + [□] + [Sub power switch] on the panel of the machine to enter the service mode. By pressing [Shift], you can press multiple buttons at the same time.

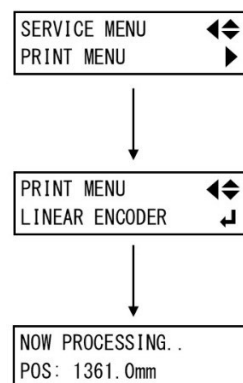


Remove the media if loaded and lower the pinch rollers.



Step 10 / 12

Select [SERVICE MENU] > [PRINT MENU] > [LINEAR ENCODER] and press [ENTER].



Step 11 / 12

Upon completion, one of the following messages will be displayed. If the message is [SETUP COMPLETED], setup is completed normally. If the message is [NG:EXTEND], [NG:SHLINK], [NG:GO BACK] or [NG:BLANK ****. *mm], identify the cause of the problem and take measures, then perform adjustment again.

確認/confirm

LINEAR ENCODER SETUP COMPLETED	作業終了 Work done
LINEAR ENCODER SETUP FAILED	再調整 Readjustment

Step 12 / 12

Detail1: Check the points listed above when messages other than [SETUP COMPLETED] is displayed.

確認/Confirm

エンコーダスケールの汚れ、傷 Dirt/scratches on the encoder scale
エンコーダセンサーの汚れ、破損 Dirt/scratches on the encoder sensor
リミット & カッターダウン位置異常 Limit position & cut down position initialization error
スキャンモーターギアとドライブギアとのバックラッシュ Backlash of the scan motor gear and the drive gear
キャリッジとベルトとの固定 Fastening of the carriage and the carriage belt
ケーブル接触不良 Bad cable contact

LG-645430 Grit Encoder Check

LG-645430 Grit Encoder Check Information

Step 1 / 2

Grit Encoder Check verifies that the grit encoder is functioning properly. It is performed when replacing the grit encoder, feed motor, or grit encoder board.Please note that the grid roller operates during the check.



Step 2 / 2

Typical work time

作業時間/Typical work time

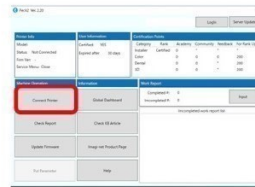
作業内容/Contents of work	時間/Time
グリッドエンコーダチェック Grid Encoder Check	1 min.

LG-645430 Grit Encoder Check

LG-645430 Grit Encoder Check Procedure

Step 1 / 13

Turn on the power and connect Peck2 with the machine to enter the service mode.



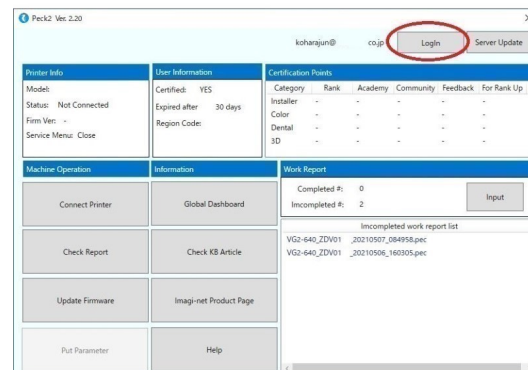
Step 2 / 13

Detail1: Start Peck2.



Step 3 / 13

Detail2: Click the [Login] button.

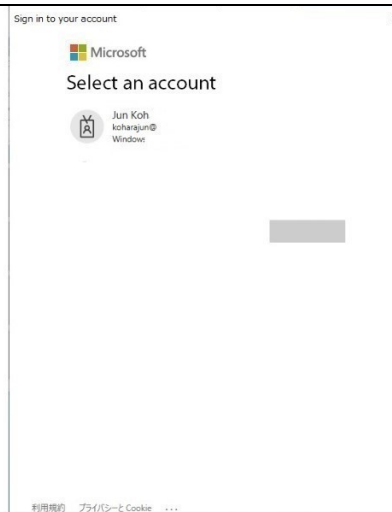


Friday, July 4, 2025 6:36 AM

Language: en

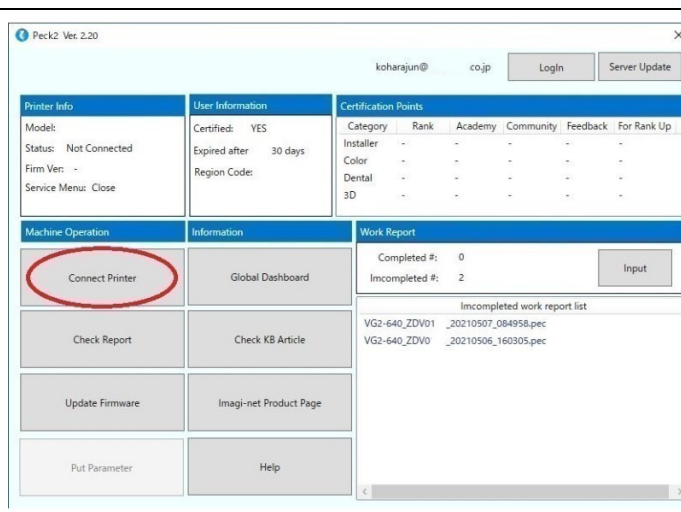
Step 4 / 13

Detail3: Login with your Imagi-net ID.



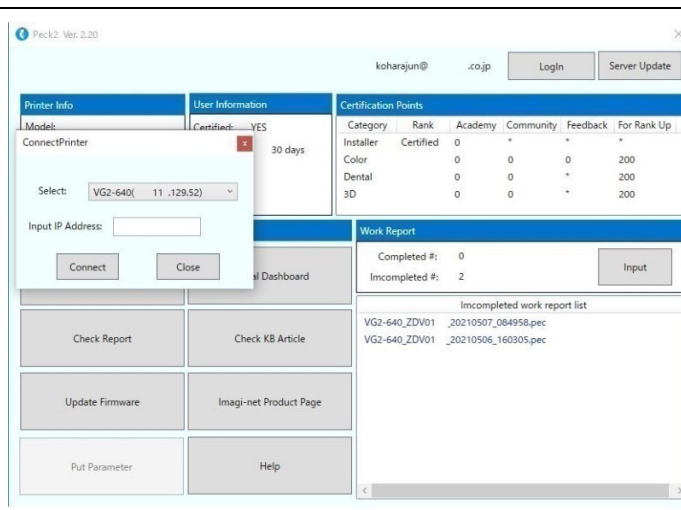
Step 5 / 13

Detail4: Click the [Connect Printer] button.



Step 6 / 13

Detail5: Enter the IP address of the device you would like to connect to.



Step 7 / 13

Detail6: When the printer is connected, the printer information will be displayed in [Printer Info].

Peck2 Ver: 2.20

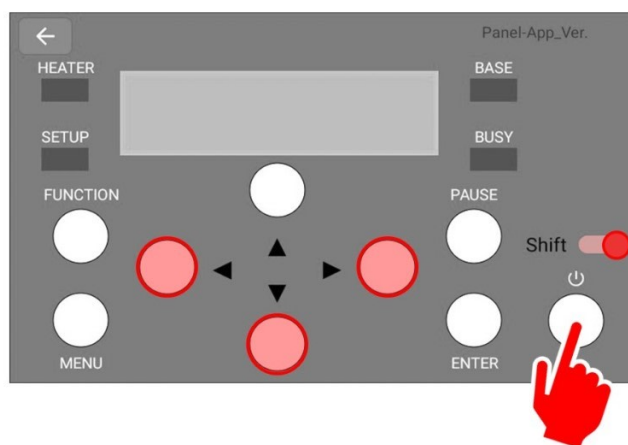
koharjun@ .co.jp Login Server Update

Printer Info		User Information		Certification Points				
Model: VG2-640_ZDV01	Certified: YES	Category	Rank	Academy	Community	Feedback	For Rank Up	
Status: UnSetup	Expired after: 30 days	Installer	Certified	0	*	*	*	
Firm Ver: 2.00		Color	0	0	0	200		
Service Menu: Open		Dental	0	0	*	200		
		3D	0	0	*	200		

Machine-Operation		Information		Work Report	
Connect Printer	Global Dashboard	Completed #:	0		
Check Report	Check KB Article	Incompleted #:	2	Input	
Update Firmware	Imagi-net Product Page	Incompleted work report list			
Put Parameter	Help	VG2-640_ZDV01 _20210507_084958.pec			
		VG2-640_ZDV01 _20210506_160305.pec			

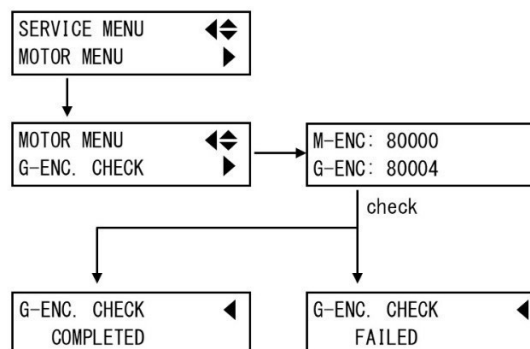
Step 8 / 13

Press[Shift] > [□]+[□]+[□]+[Sub Power] to enter the service mode. By turning on the [Shift] button, the multiple buttons can be pressed at the same time.



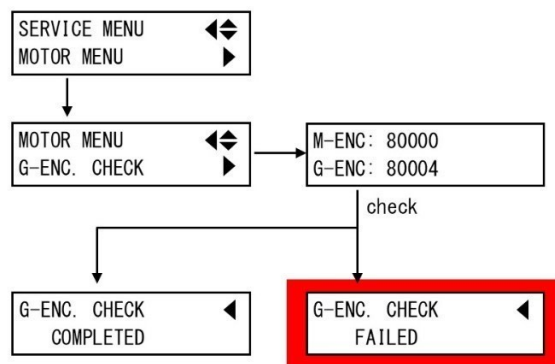
Step 9 / 13

Detail7: Select [MOTOR MENU] > [G-ENC. CHECK] and press [ENTER]. Confirm that [G-ENC. CHECK COMPLETED] is displayed and that the grit encoder is functioning properly.



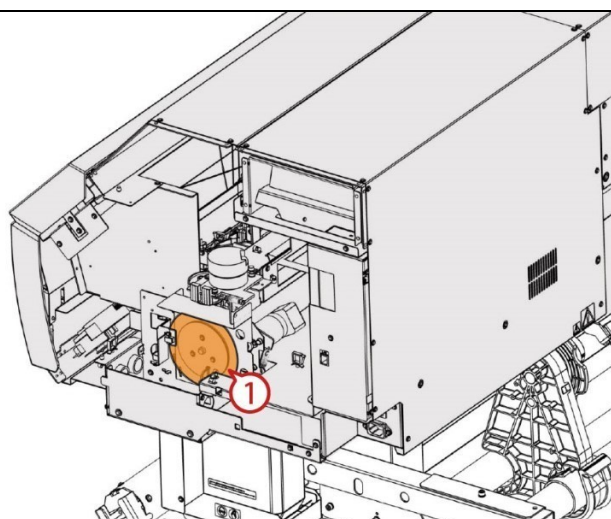
Step 10 / 13

If [G-ENC. CHECK FAILED] is displayed,
resolve the cause and then check again.



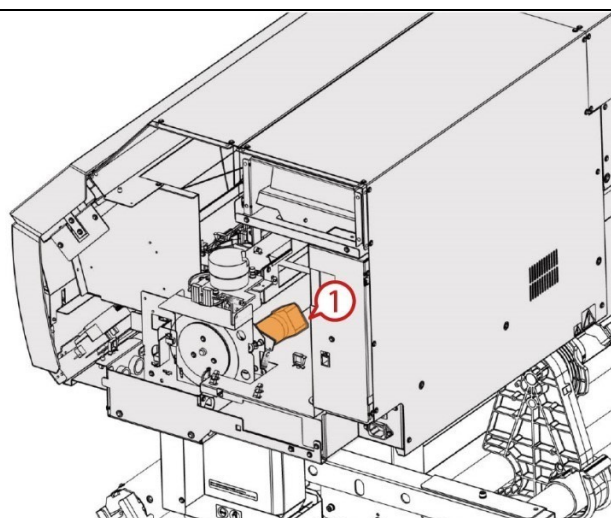
Step 11 / 13

Detail1: [Check Point]1. The grit encoder
is attached properly.



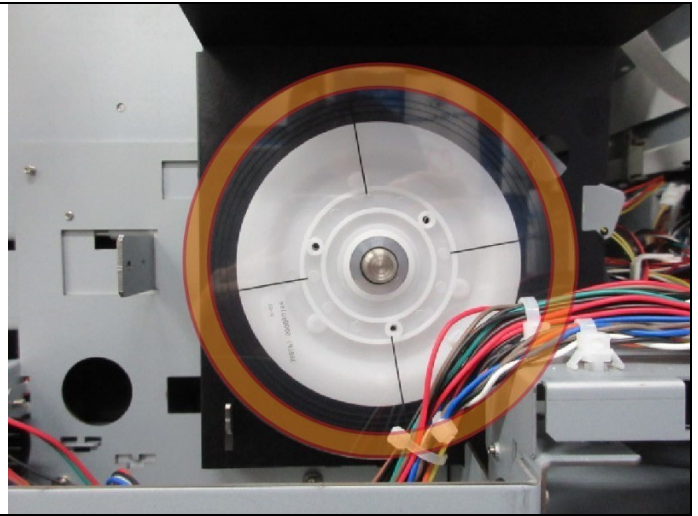
Step 12 / 13

Detail2: [Check Point]2. The feed motor
is attached properly.



Step 13 / 13

Detail3: [Check Point]3. The grit encoder has no scratch or stain.



LG-645430 Feed Calibration

LG-645430 Feed Calibration Information

Step 1 / 2

Necessary tools Test print requires 510 mm or more of the media setup width.

一般ツール/General Tool

SP-M(マットPET合成紙)
SP-M(Matter-PET artificial paper)

Step 2 / 2

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
距離補正(送り方向) Feed calibration	15 min.

LG-645430 Feed Calibration

LG-645430 Feed Calibration Procedure

Step 1 / 14

Connect Peck2 to the machine, and enter the service mode. Set SP-M on the printer.



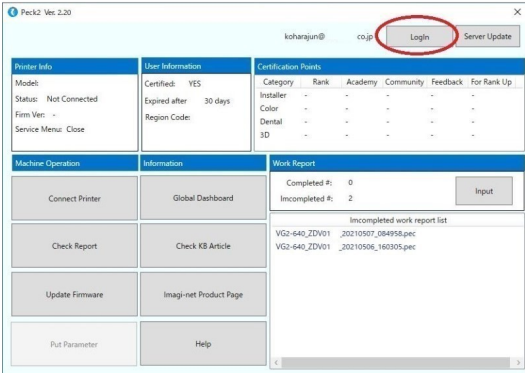
Step 2 / 14

Detail1: Start Peck2.



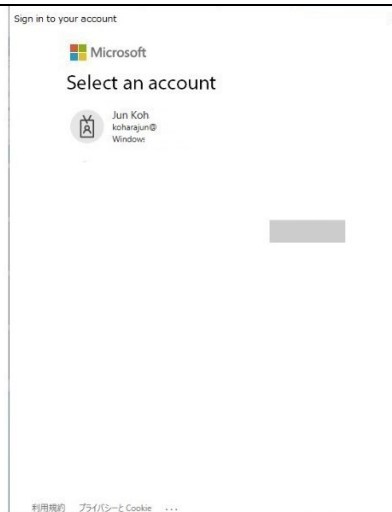
Step 3 / 14

Detail2: Click the [Login] button.



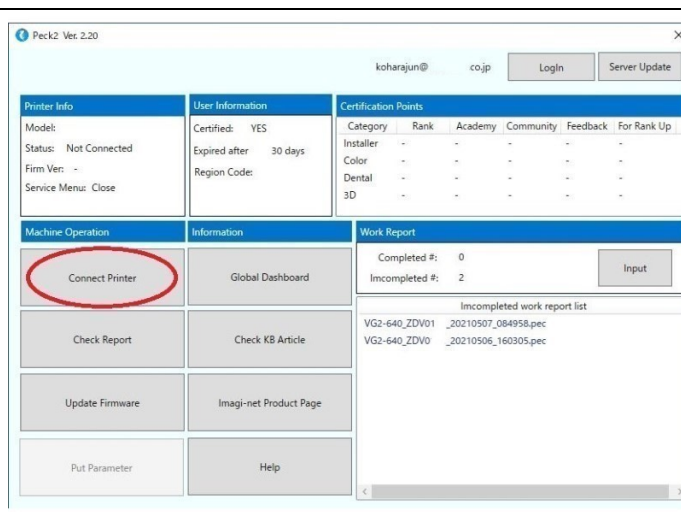
Step 4 / 14

Detail3: Log in with Imagi-net ID.



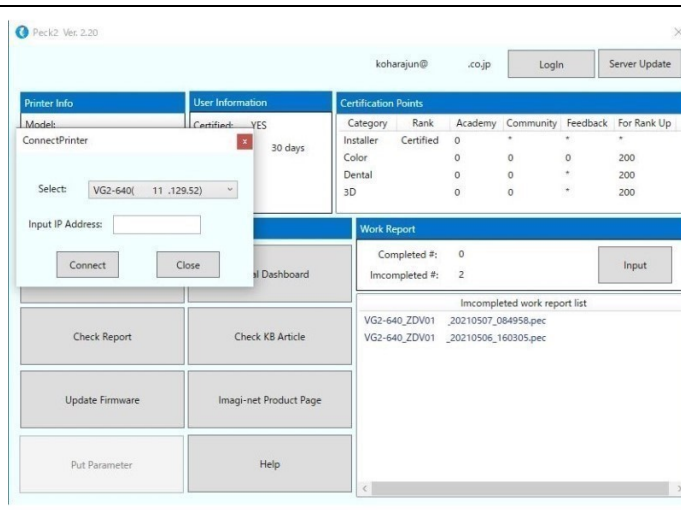
Step 5 / 14

Detail4: Click the [Connect Printer] button.



Step 6 / 14

Detail5: Enter IP address of the machine to be connected.



Step 7 / 14

Detail6: When the printer is connected, printer information is shown in [Printer Info].

Peck2 Ver. 2.20

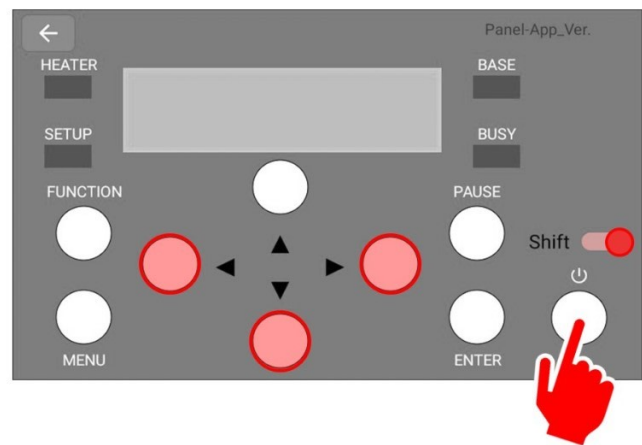
koharajun@ .co.jp Login Server Update

Printer Info		User Information		Certification Points					
Model:	VG2-640_ZDV01	Certified:	YES	Category	Rank	Academy	Community	Feedback	For Rank Up
Status:	UnSetup	Expired after:	30 days	Installer	Certified	0	*	*	*
Firm Ver:	2.00			Color		0	0	0	200
Service Menu:	Open			Dental		0	0	*	200
				3D		0	0	*	200

Machine-Operation		Information		Work Report	
Connect Printer	Global Dashboard	Completed #:	0	Input	
Check Report	Check KB Article	Incompleted #:	2		
Update Firmware	Imagi-net Product Page	Incompleted work report list			
Put Parameter	Help	VG2-640_ZDV01 : _20210507_084958.pec			
		VG2-640_ZDV01 : _20210506_160305.pec			

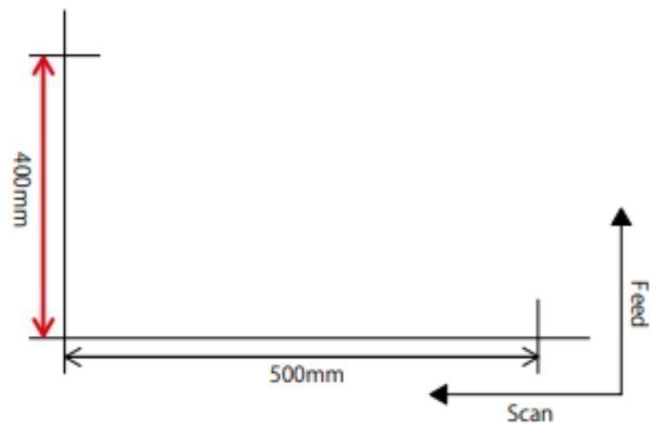
Step 8 / 14

Detail7: Press [Shift] > [□] + [□] + [□] + [Sub power switch] on the panel of the machine to enter the service mode. By pressing [Shift], you can press multiple buttons at the same time.



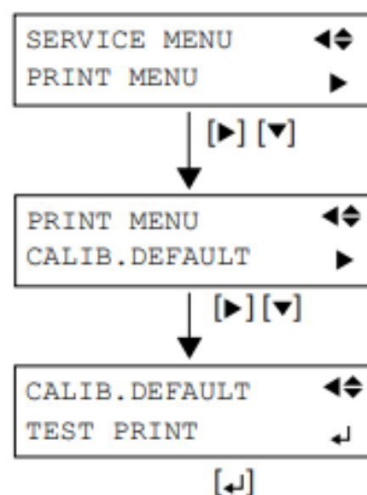
Step 9 / 14

Test print requires 510 mm or more of the media setup width.



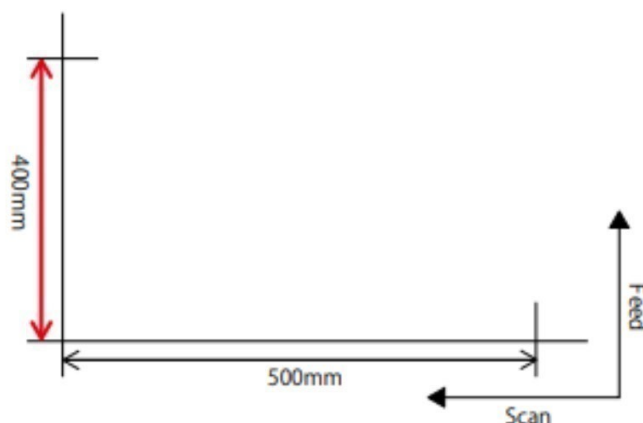
Step 10 / 14

Select [PRINT MENU] > [
CALIB.DEFAULT] > [TEST PRINT] and
press the [ENTER] key.



Step 11 / 14

Measure the length of the feed direction
from the test print result. The test
pattern is always output with a
correction value of 0.00 %. Even if you
change the value in the [SETTING]
menu, the test pattern will not change.



Step 12 / 14

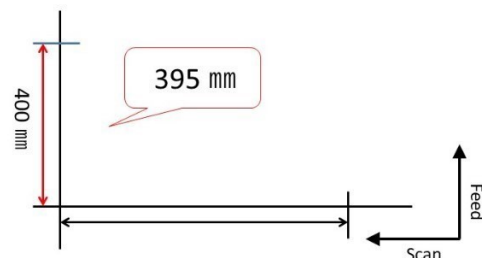
Calculate the correction value with the
formula.

$$\text{補正值} = \frac{400 - \text{測定値}}{\text{測定値}} \times 100$$
$$\text{Correction value} = \frac{400 - \text{Measured value}}{\text{Measured value}} \times 100$$

Step 13 / 14

Detail1: Calculation example

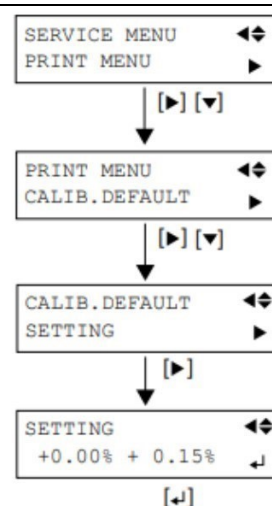
e.g.



$$1.27 = \frac{400 - 395}{395} \times 100$$

Step 14 / 14

Select [PRINT MENU] > [CALIB.DEFAULT] > [SETTING] and press [] [] to enter the correction value, then press the [ENTER] key to save the setting.



LG-645430 Wiper Position Adjustment

LG-645430 Wiper Position Adjustment Information

Step 1 / 2

Necessary tools

一般ツール/General Tool

無し None	
------------	--

特殊治具/Special Tools

無し None	
------------	--

Step 2 / 2

Typical Work Time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
ワイパー位置調整 Wiper Position Adjustment	3 min.

LG-645430 Wiper Position Adjustment

LG-645430 Wiper Position Adjustment

Procedure

Step 1 / 15

Connect Peck2 to the machine and enter the service mode.



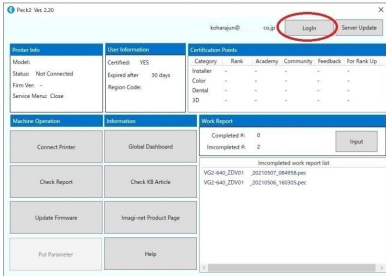
Step 2 / 15

Detail1: Start Peck2.



Step 3 / 15

Detail2: Click the [Login] button.



Step 4 / 15

Detail3: Log in with Imagi-net ID.

Sign in to your account

Microsoft

Select an account

 Jun Koh
koharajun@
Window

利用規約

プライバシーとCookie

...

Step 5 / 15

Detail4: Click the [Connect Printer] button.

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

Printer Info

Model:

Status: Not Connected

Firm Ver: -

Service Menu: Close

User Information

Certified: YES

Expired after: 30 days

Region Code:

Certification Points

Category	Rank	Academy	Community	Feedback	For Rank Up
Installer	-	-	-	-	-
Color	-	-	-	-	-
Dental	-	-	-	-	-
3D	-	-	-	-	-

Machine Operation

Connect Printer

Check Report

Update Firmware

Put Parameter

Information

Global Dashboard

Check KB Article

Imagi-net Product Page

Help

Work Report

Completed #: 0

Imcompleted #: 2

Input

Imcompleted work report list

VG2-640_ZDV01_20210507_084958.pec

VG2-640_ZDV01_20210506_160305.pec

Step 6 / 15

Detail5: Enter IP address of the machine to be connected.

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

Printer Info

Model:

ConnectPrinter

Select: VG2-640(11 .129.52)

Input IP Address:

Connect

Close

User Information

Certified: YES

Expired after: 30 days

Certification Points

Category	Rank	Academy	Community	Feedback	For Rank Up
Installer	Certified	0	*	*	*
Color	0	0	0	200	
Dental	0	0	*	200	
3D	0	0	*	200	

Machine Operation

Global Dashboard

Check Report

Check KB Article

Update Firmware

Imagi-net Product Page

Put Parameter

Help

Work Report

Completed #: 0

Imcompleted #: 2

Input

Imcompleted work report list

VG2-640_ZDV01_20210507_084958.pec

VG2-640_ZDV01_20210506_160305.pec

Step 7 / 15

Detail6: When the printer is connected, printer information is shown in [Printer Info].

Peck2 Ver: 2.20

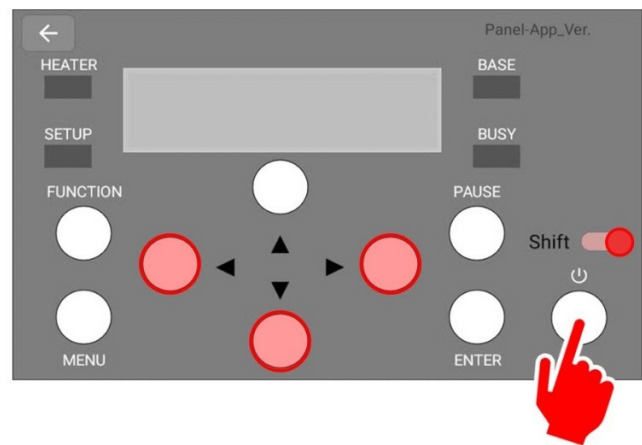
koharajun@ .co.jp Login Server Update

Printer Info		User Information		Certification Points				
Model: VG2-640_ZDV01	Certified: YES	Category	Rank	Academy	Community	Feedback	For Rank Up	
Status: UnSetup	Expired after: 30 days	Installer	Certified	0	*	*	*	
Firm Ver: 2.00		Color		0	0	0	200	
Service Menu: Open		Dental		0	0	*	200	
		3D		0	0	*	200	

Machine-Operation		Information		Work Report	
Connect Printer	Global Dashboard	Completed #:	0	Input	
Check Report	Check KB Article	Incompleted #:	2		
Update Firmware	Imagi-net Product Page	Incompleted work report list			
Put Parameter	Help	VG2-640_ZDV01 _20210507_084958.pec			
		VG2-640_ZDV01 _20210506_160305.pec			

Step 8 / 15

Detail7: Enter the service mode.



Step 9 / 15

Select [I/S MENU] > [WIPE ADJUST] > [WIPE HEIGHT] .

SERVICE MENU	◀▶
I/S MENU	▶
I/S MENU	◀▶
WIPE ADJUST	▶
WIPE ADJUST	◀▶
WIPE HEIGHT	▶
WIPE HEIGHT	◀▶
0step ▶ 0step	↶↷

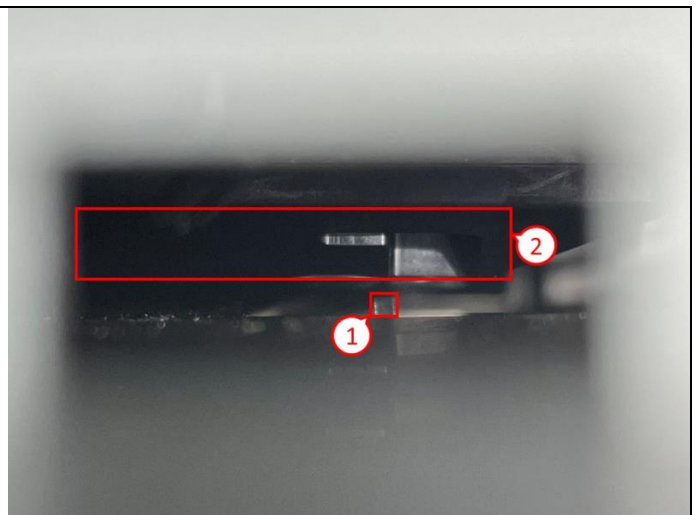
Step 10 / 15

Check the position of the wiper.



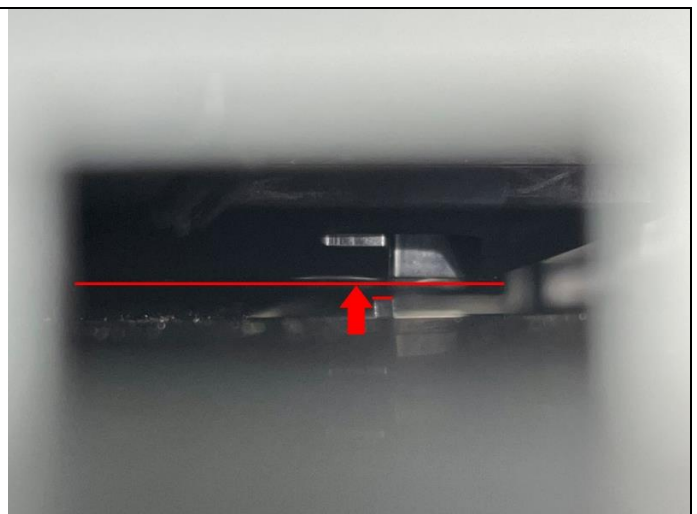
Step 11 / 15

Detail1: 1. Wiper 2. Print head



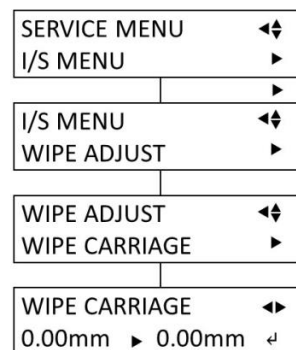
Step 12 / 15

Press the [□] key to raise the wiper and press the [ENTER] key where the wiper tip touches the head surface. Note: By pressing [□] key, the wiper returns to the default position.



Step 13 / 15

Select [I/S MENU] > [WIPE ADJUST] > [WIPE CARRIAGE].



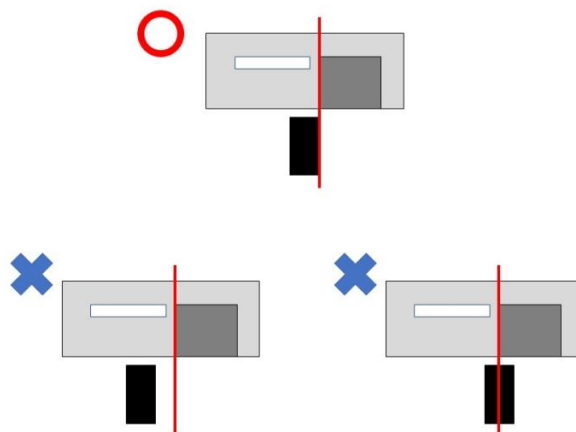
Step 14 / 15

Press the [◀] [▶] keys to move the print head carriage and press the [ENTER] key where the right edge of the wiper aligns with the left edge of the head guard notch.



Step 15 / 15

Detail1: Refer to the figure for the correct wiper position.



LG-645430 Tool Height Adjustment

LG-645430 Tool Height Adjustment

Information

Step 1 / 3

Necessary tools

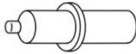
一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
シツクネスゲージ Thickness gauge	
六角レンチ1.5 mm 1.5 mm hexagonal wrench	

Step 2 / 3

Special tools

特殊治具/Special Tools

ST-006 WHITE DUMMY PEN	
------------------------	---

Step 3 / 3

Typical Work Time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
ツール高さ調整 Tool height adjustment	10 min.

LG-645430 Tool Height Adjustment

LG-645430 Tool Height Adjustment

Procedure

Step 1 / 15

Connect Peck2 to the machine and enter the service mode.



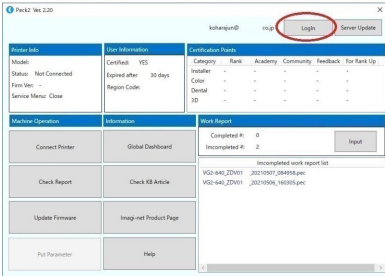
Step 2 / 15

Detail1: Start Peck2.



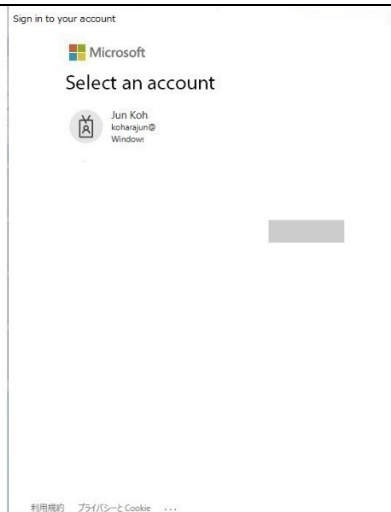
Step 3 / 15

Detail2: Click the [Login] button.



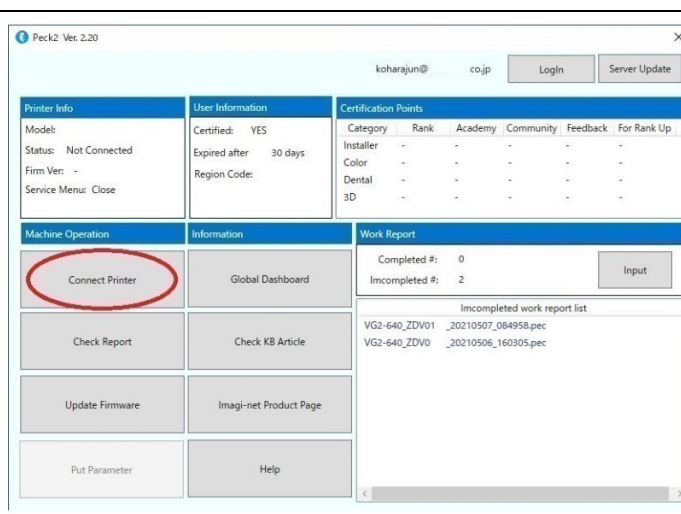
Step 4 / 15

Detail3: Log in with Imagi-net ID.



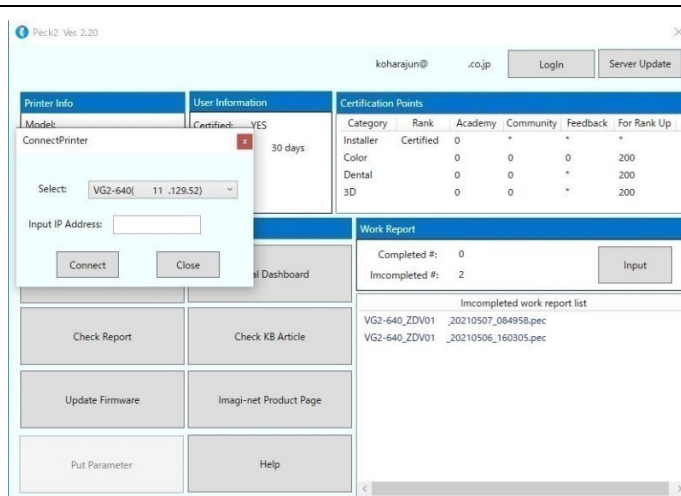
Step 5 / 15

Detail4: Click the [Connect Printer] button.



Step 6 / 15

Detail5: Enter IP address of the machine to be connected.



Step 7 / 15

Detail6: When the printer is connected, printer information is shown in [Printer Info].

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

Printer Info	User Information	Certification Points
Model: VG2-640_ZDV01	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: UnSetup	Expired after: 30 days	Installer Certified 0 * * *
Firm Ver: 2.00		Color 0 0 0 200
Service Menu: Open		Dental 0 0 * 200
		3D 0 0 * 200

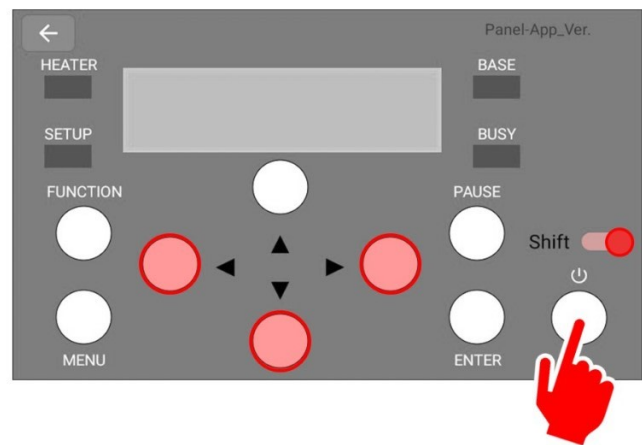
Machine-Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0
Check Report	Check KB Article	Incompleted #: 2
Update Firmware	Imagi-net Product Page	Input
Put Parameter	Help	

Incompleted work report list

VG2-640_ZDV01 _20210507_084958.pec
VG2-640_ZDV01 _20210506_160305.pec

Step 8 / 15

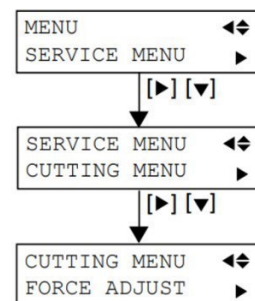
Detail7: Touch [SERVICE MODE], then press [Shift]+[□]□[□]+[Power] to enter the service mode.



Step 9 / 15

Select [CUTTING MENU] > [FORCE ADJUST].

FORCE ADJUST



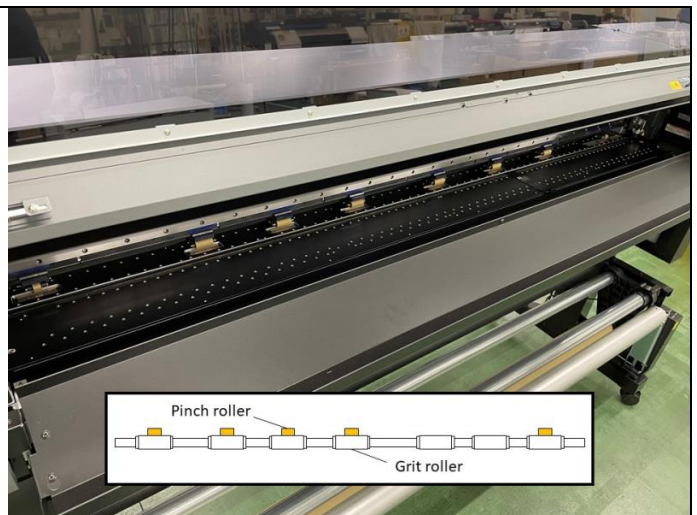
Step 10 / 15

Detail1: When you select [FORCE ADJUST], the tool carriage automatically moves to the adjustment position.



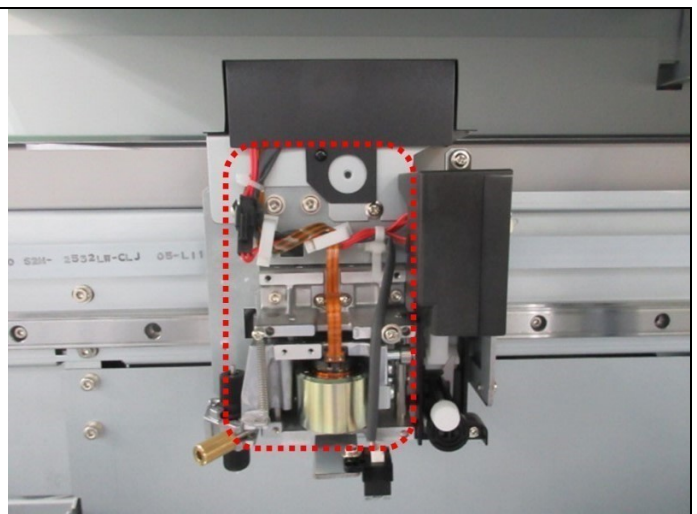
Step 11 / 15

Place the pinch rollers above the grit areas and lower the pinch lever.



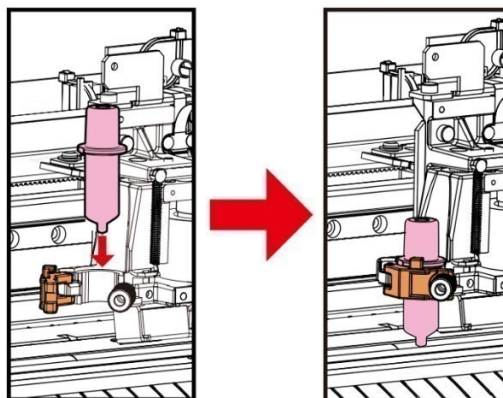
Step 12 / 15

Remove the tool carriage cover.



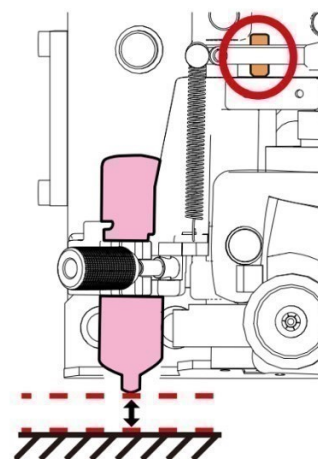
Step 13 / 15

Attach the white dummy pen to the tool carriage.



Step 14 / 15

Use 1.5 mm hexagonal wrench and turn the adjustment screw. Using thickness gauge, turn the adjustment screw so that the space between the pen tip and the bed becomes 2.5 mm to 2.6 mm.



Step 15 / 15

Refer to "Tool Pressure Adjustment" and adjust the tool pressure.



次の手順

筆圧調整

Next Step

Tool Pressure Adjustment

LG-645430 Tool Pressure Adjustment

LG-645430 Tool Pressure Adjustment Information

Step 1 / 3

Necessary tools

一般ツール/General Tool

プラスドライバー No.2
No.2 Phillips screwdriver



Step 2 / 3

Special tools

特殊治具/Special Tools

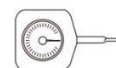
ST-002 TENSION GAUGE
300GF/300CN



ST-006 WHITE DUMMY PEN



ST-012 DIAL TENSION METER
DTB-50



Step 3 / 3

Typical Work Time

作業時間/Typical work time

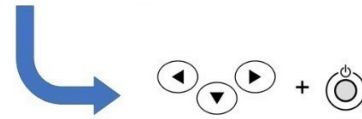
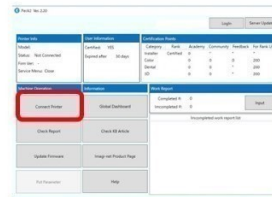
作業内容/Contents of work	時間/Time
筆圧調整 Tool pressure adjustment	15 min.

LG-645430 Tool Pressure Adjustment

LG-645430 Tool Pressure Adjustment Procedure

Step 1 / 16

Turn on the power and connect Peck2 to the machine, and enter the service mode.



Step 2 / 16

Detail1: Plug the power cord and turn on the power.



Step 3 / 16

Detail2: Start Peck2.



Step 4 / 16

Detail3: Click the [Login] button.

Peck2 Ver. 2.20

koharajun@ co.jp Login Server Update

Printer Info	User Information	Certification Points
Model:	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: Not Connected	Expired after 30 days	Installer - - - - -
Firm Ver: -	Region Code:	Color - - - - -
Service Menu: Close		Dental - - - - -
		3D - - - - -

Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0 Incomplete #: 2 Input
Check Report	Check KB Article	Imcompleted work report list
Update Firmware	Imagi-net Product Page	VG2-640_ZDV01 _20210507_084958.pec VG2-640_ZDV01 _20210506_160305.pec
Put Parameter	Help	

Step 5 / 16

Detail4: Log in with Imagi-net ID.

Sign in to your account

Microsoft

Select an account

Jun Koh koharajun@ Windows

利用規約 プライバシーと Cookie

Step 6 / 16

Detail5: Click the [Connect Printer] button.

Peck2 Ver. 2.20

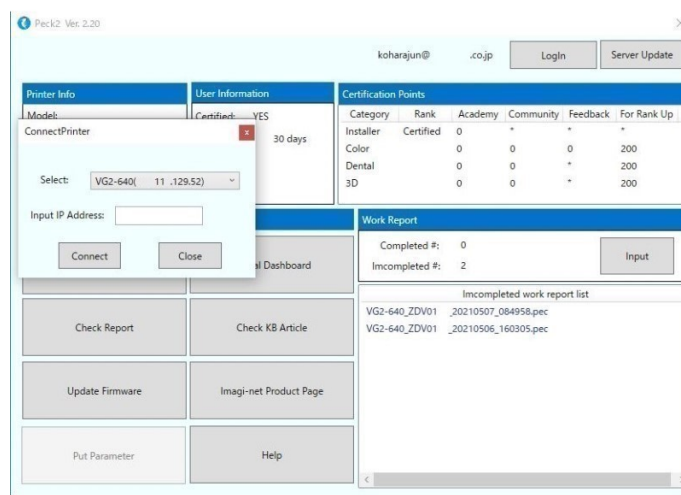
koharajun@ co.jp Login Server Update

Printer Info	User Information	Certification Points
Model:	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: Not Connected	Expired after 30 days	Installer - - - - -
Firm Ver: -	Region Code:	Color - - - - -
Service Menu: Close		Dental - - - - -
		3D - - - - -

Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0 Incomplete #: 2 Input
Check Report	Check KB Article	Imcompleted work report list
Update Firmware	Imagi-net Product Page	VG2-640_ZDV01 _20210507_084958.pec VG2-640_ZDV01 _20210506_160305.pec
Put Parameter	Help	

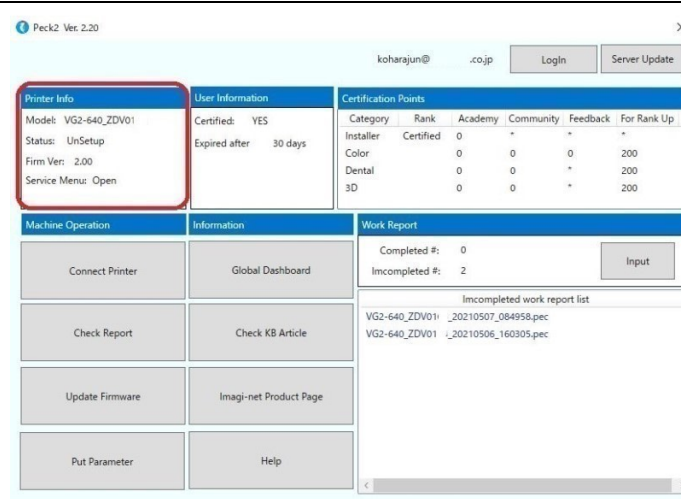
Step 7 / 16

Detail6: Enter IP address of the machine to be connected.



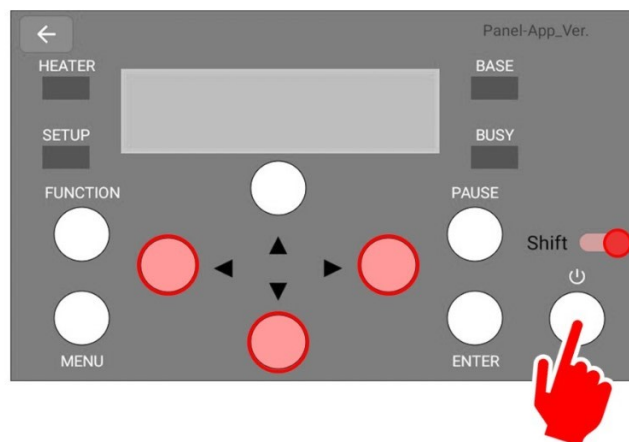
Step 8 / 16

Detail7: When the printer is connected, printer information is shown in [Printer Info].



Step 9 / 16

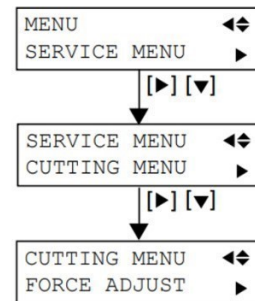
Detail8: Press [Shift] > [] + [] + [] + [Sub power switch] on the panel of the machine to enter the service mode. By pressing [Shift], you can press multiple buttons at the same time.



Step 10 / 16

Select [CUTTING MENU] > [FORCE ADJUST].

FORCE ADJUST



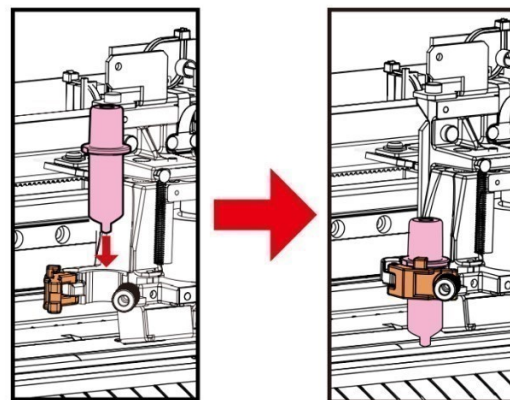
Step 11 / 16

Detail1: When you select [FORCE ADJUST], the tool carriage automatically moves to the adjustment position.



Step 12 / 16

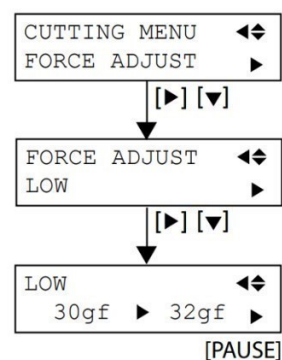
Attach the white dummy pen to the tool carriage.



Step 13 / 16

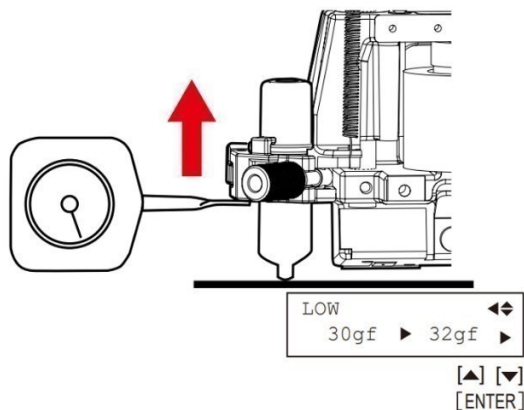
Select [LOW] in the [FORCE ADJUST] menu. Then press the [PAUSE] key to lower the tool carriage.

FORCE ADJUST LOW



Step 14 / 16

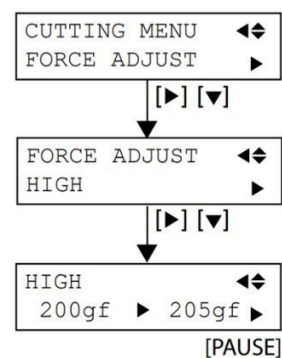
Lift the tool holder with the dial tension meter and measure the pressure when the pen tip leaves the bed. Then, input the value indicated by the dial tension meter with the [] [] keys. Then press the [ENTER] key to save the setting.



Step 15 / 16

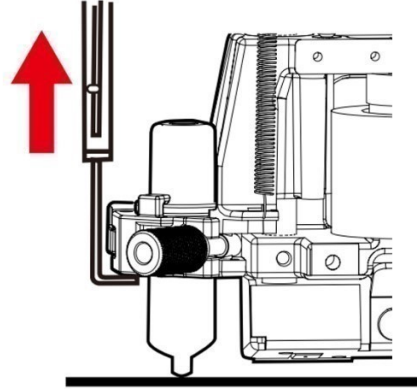
Select [HIGH] in the [FORCE ADJUST] menu. Then press the [PAUSE] key to lower the tool carriage.

FORCE ADJUST HIGH



Step 16 / 16

Lift the tool holder with the tension gauge and measure the pressure when the pen tip leaves the bed. Then, input the value indicated by the tension gauge with the [] [] keys, and press the [ENTER] key to save the setting.



LG-645430 Multi Sensor Adjustment

LG-645430 Multi Sensor Adjustment

Information

Step 1 / 2

Necessary tools Recommended Media:
IJ5331, IJ1220, LLSPEX, 3164G and SPMs

一般ツール/General Tool

白いステッカーメディア (IJ5331推奨)
White sticker media
(IJ5331 recommended)



Step 2 / 2

Typical Work Time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
マルチセンサー調整 Multi sensor Adjustment	5 min.

LG-645430 Multi Sensor Adjustment

LG-645430 Multi Sensor Adjustment

Procedure

Step 1 / 20

Connect Peck2 to the machine and enter the service mode.

01

POWER

Step 2 / 20

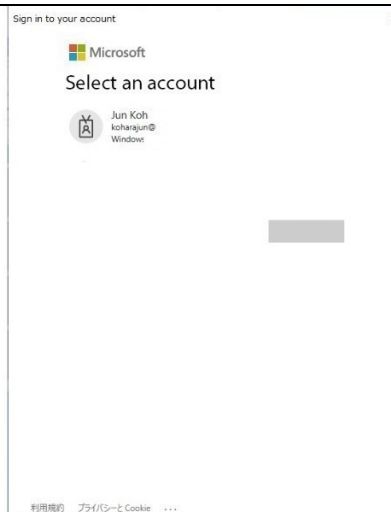
Detail1: Start Peck2.

Step 3 / 20

Detail2: Click the [Login] button.

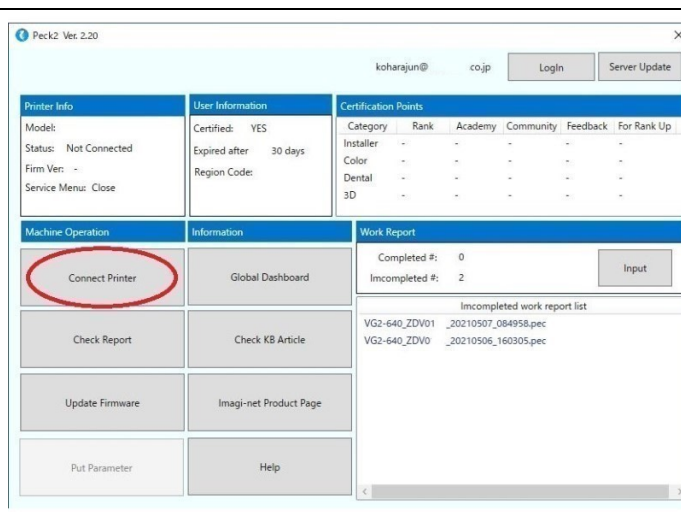
Step 4 / 20

Detail3: Log in with Imag-net ID.



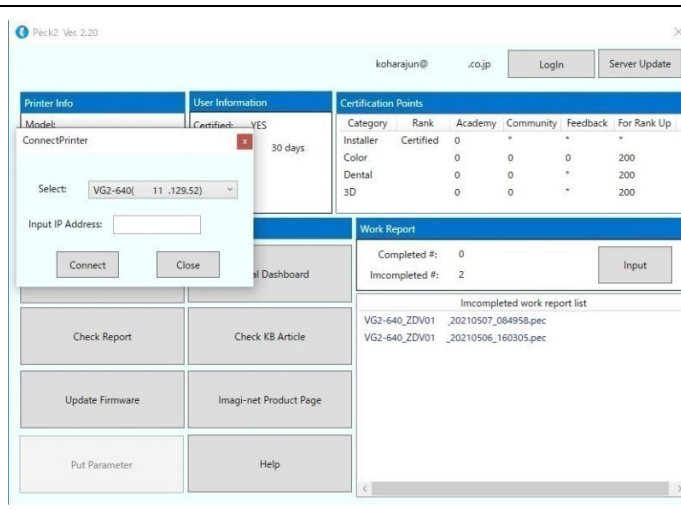
Step 5 / 20

Detail4: Click the [Connect Printer] button.



Step 6 / 20

Detail5: Enter IP address of the machine to be connected.



Step 7 / 20

Detail6: When the printer is connected, printer information is shown in [Printer Info].

Peck2 Ver. 2.20

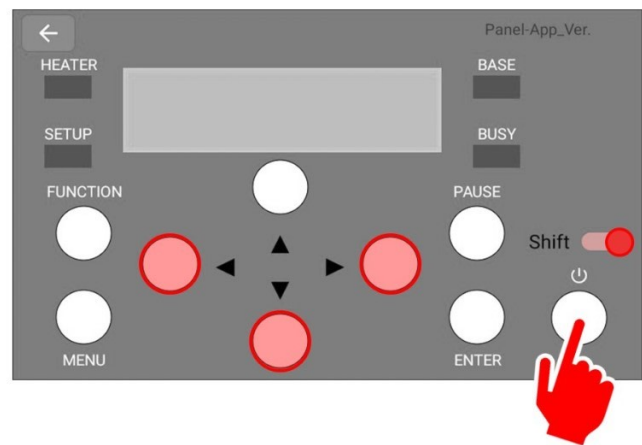
koharajun@ .co.jp Login Server Update

Printer Info		User Information		Certification Points				
Model: VG2-640_ZDV01	Certified: YES	Category	Rank	Academy	Community	Feedback	For Rank Up	
Status: UnSetup	Expired after: 30 days	Installer	Certified	0	*	*	*	
Firm Ver: 2.00		Color		0	0	0	200	
Service Menu: Open		Dental		0	0	*	200	
		3D		0	0	*	200	

Machine-Operation		Information		Work Report	
Connect Printer	Global Dashboard	Completed #:	0	Input	
Check Report	Check KB Article	Incompleted #:	2		
Update Firmware	Imagi-net Product Page	Incompleted work report list			
Put Parameter	Help	VG2-640_ZDV01 _20210507_084958.pec			
		VG2-640_ZDV01 _20210506_160305.pec			

Step 8 / 20

Detail7: Press [Shift] > [] + [] + [] + [Sub power switch] on the panel of the machine to enter the service mode. By pressing [Shift], you can press multiple buttons at the same time.



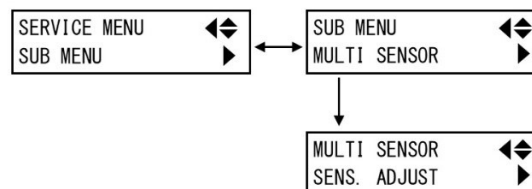
Step 9 / 20

Load the white sticker media and perform set up.



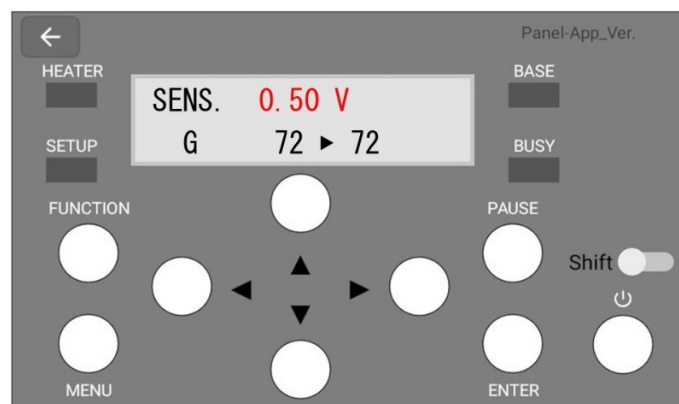
Step 10 / 20

Select [SERVICE MENU] > [SUB MENU]
> [MULTI SENSOR] > [SENS. ADJUST].



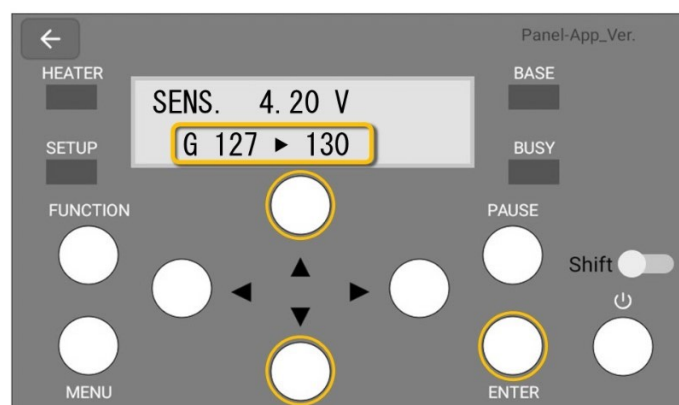
Step 11 / 20

Adjust the LED intensity so that the light receiving voltage is $0.50\text{ V} \pm 0$. Lowering the value decreases the light receiving voltage, while raising the value increases it.



Step 12 / 20

Detail1: Use the up and down keys to change the LED intensity, and press the [ENTER] key to update the light-receiving voltage.



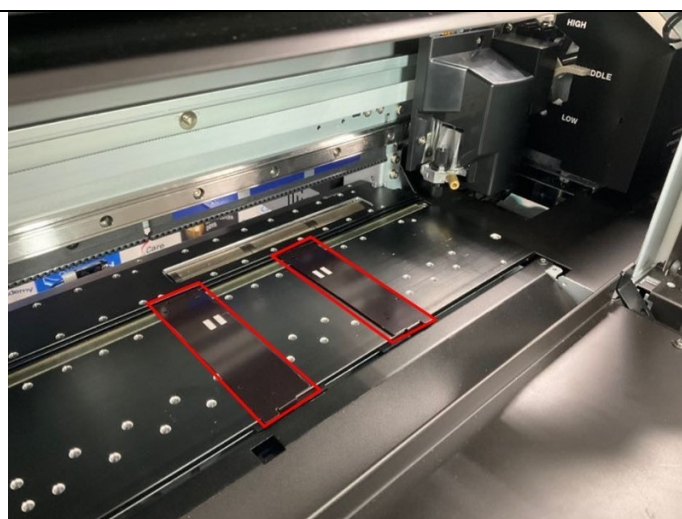
Step 13 / 20

Remove the media.



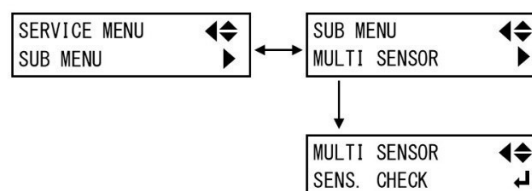
Step 14 / 20

Use the multi sensor to check the bed and the media clamps. Attach the media clamps if not attached.



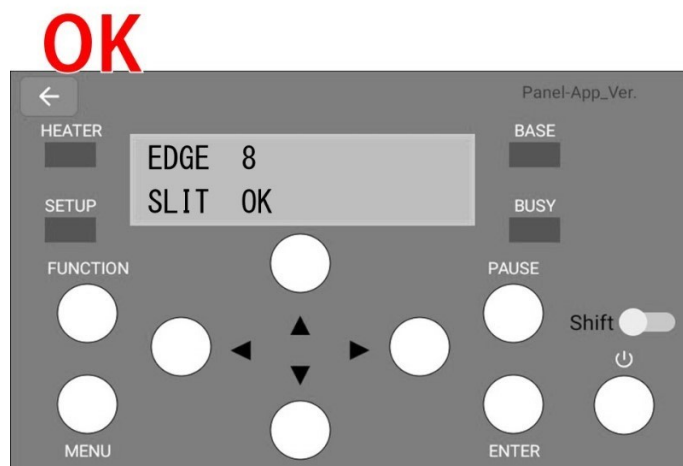
Step 15 / 20

Select [SERVICE MENU] > [SUB MENU]
> [MULTI SENSOR] > [SENS. CHECK].



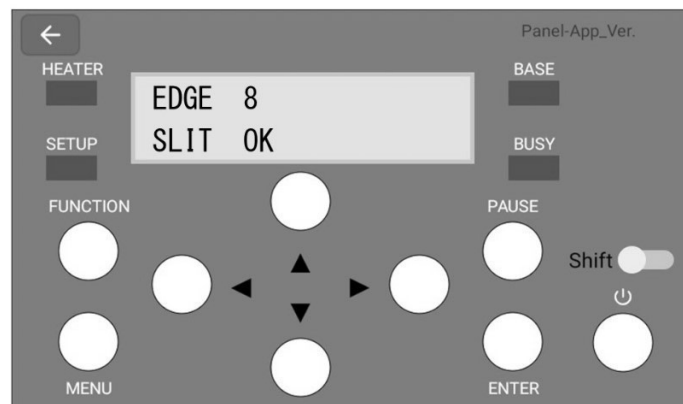
Step 16 / 20

Check that [EDGE 8] is displayed in the upper part of the panel and [SLIT OK] is displayed in the lower part. If this is the case, the sensor works properly and the process is complete.



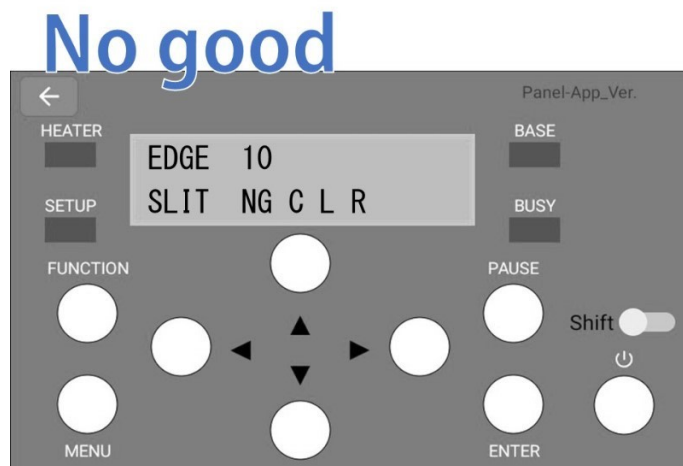
Step 17 / 20

Detail1: [Upper] Number of detected edges [Lower] White slit status of media clamp



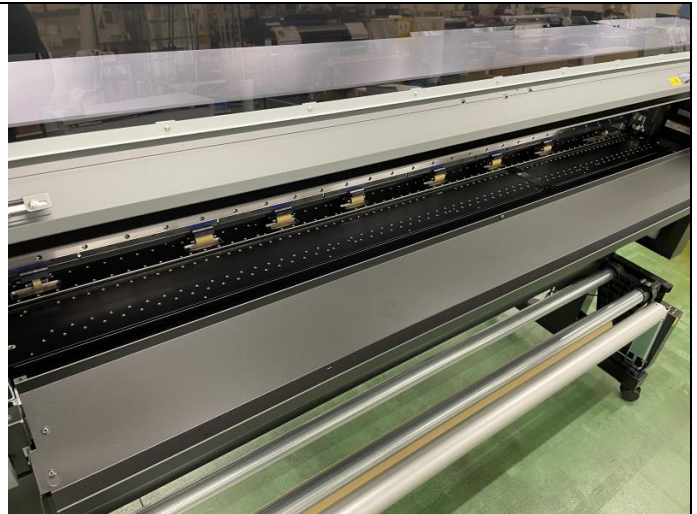
Step 18 / 20

If you see a different display on the panel, check and adjust again.



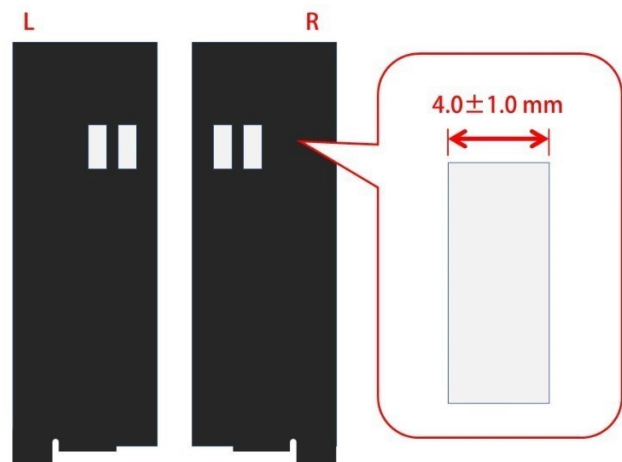
Step 19 / 20

Detail1: 1. Make sure that there are no foreign objects, scratches, dirt, etc. on the platen or media clamps. 2. Make sure that the media clamp is not deformed. 3. Check if the multi sensor is attached correctly.



Step 20 / 20

Detail2: [C]: If the black and white edges are not the number of slits (8 slits) [L]: If the length of the left slit exceeds the range of 4 ± 1 mm [R]: If the length of the right slit exceeds the range of 4 ± 1 mm



LG-645430 UV Lamp Height Adjustment

LG-645430 UV Lamp Height Adjustment Information

Step 1 / 2

Necessary Tools

一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
六角レンチ 2.5mm (100mm以上推奨) Hexagonal wrench(2.5mm) (Length:100mm or more recommended) OR 六角 ビット 2.5mm BIT HEXAGONAL (2.5mm)	
六角レンチ (3mm) Hexagonal wrench(3mm)	

Step 2 / 2

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
UVランプ高さ調整 UV lamp height adjustment	15 min.

LG-645430 UV Lamp Height Adjustment

LG-645430 UV Lamp Height Adjustment Procedure

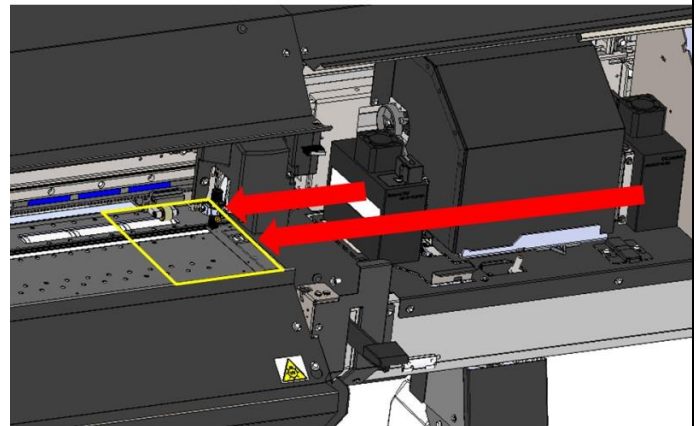
Step 1 / 12

Lower the print head height lever to LOW (lowest position).



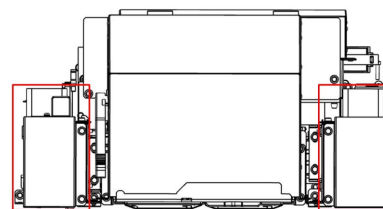
Step 2 / 12

Move the carriage so that the UV lamp to be replaced is positioned at the right end of the platen.



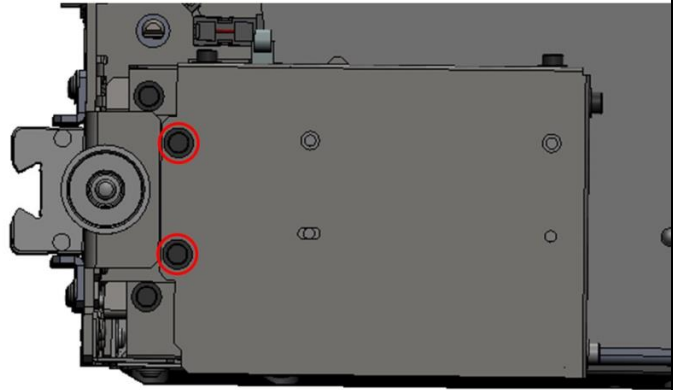
Step 3 / 12

Loosen 7 screws attached to the UV lamp to be adjusted.



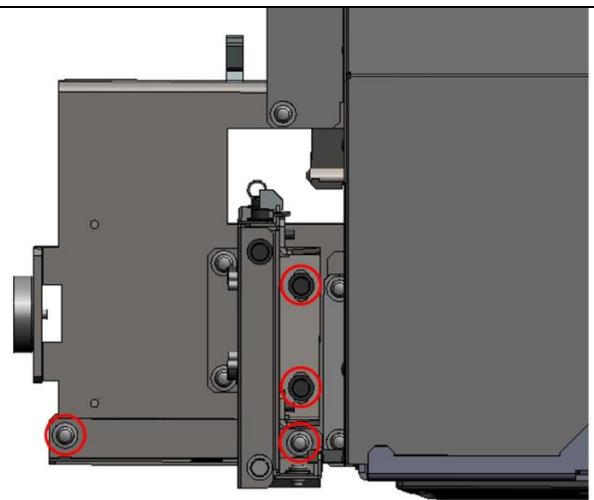
Step 4 / 12

Detail1: Left UV lamp side



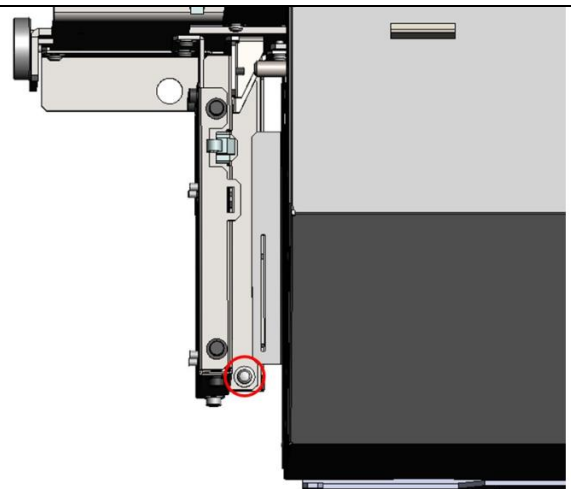
Step 5 / 12

Detail2; Left UV lamp front



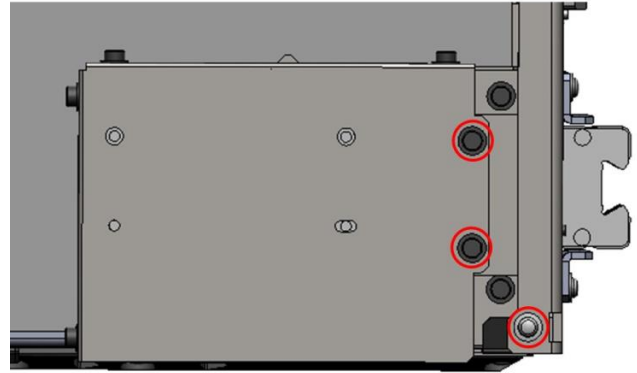
Step 6 / 12

Detail3: Left UV lamp top



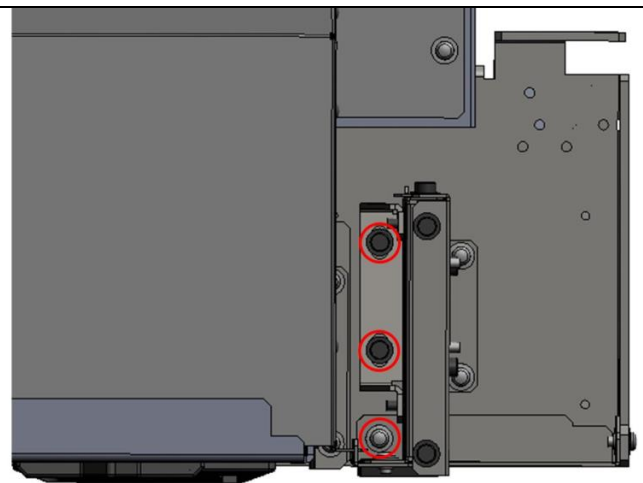
Step 7 / 12

Detail4: Right UV lamp side



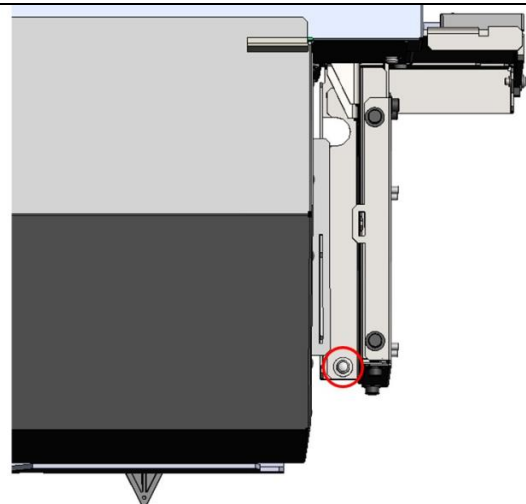
Step 8 / 12

Detail5: Right UV Lamp front



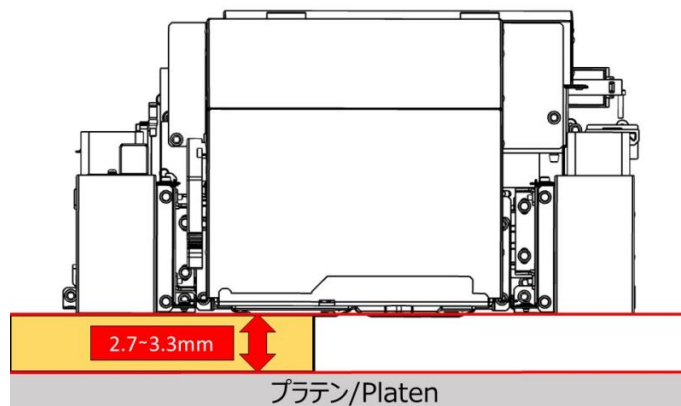
Step 9 / 12

Detail6: Right UV lamp top



Step 10 / 12

Place the jig between the bed and the UV lamp and adjust the height so that the gap becomes between 2.7 mm and 3.3 mm.



Step 11 / 12

Detail1: Use a 3 mm hex wrench or a Thickness Gauge for adjustment.



Step 12 / 12

Tighten the screws you loosened earlier at the adjusted height to secure the UV lamp.

