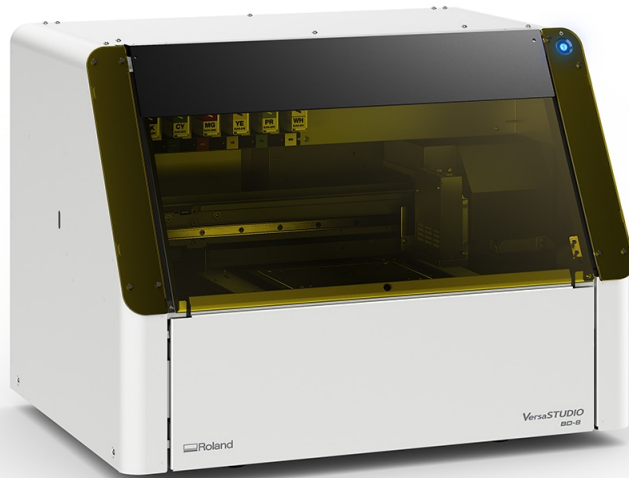


The following
material is
confidential.



BD-8

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BD-8 Print head replacement

BD-8 Print head replacement Information

Step 1 / 6

Next Work 50 BD-8 Print head
alignment



Step 2 / 6

Necessary Tools

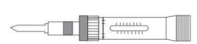
一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
ウイス Dry cloth	

Step 3 / 6

Special Tools

特殊治具/Special Tools

ST-056 TORQUE DRIVER N6	
六角ビット 2.5mm BIT HEXAGONAL (2.5mm)	
1000005829 TOOL, VINYL YE UV RESISTANT ST-113	

Step 4 / 6

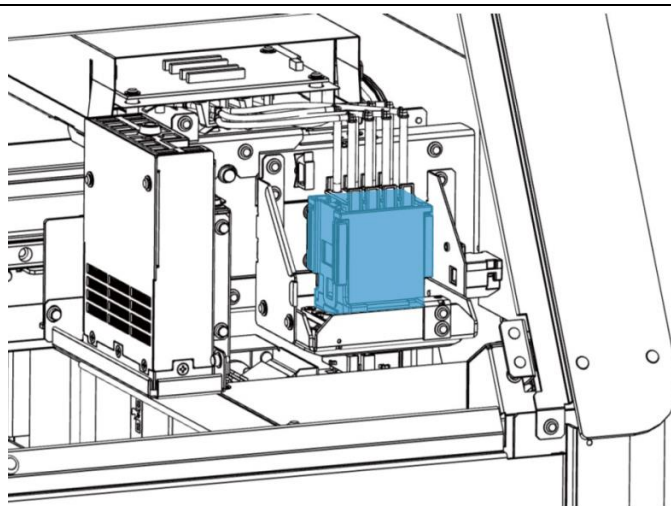
Typical Work Time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
プリントヘッド交換 Print head replacement	20 min.
ヘッド情報クリア Clearing the print head information	1 min.
ヘッド位置調整 Print head alignment	15 min.

Step 5 / 6

Outline diagram



Step 6 / 6

When removing the cover, use a light-shielding sheet to prevent the ink from curing.



BD-8 Print head replacement

BD-8 Print head replacement Procedure

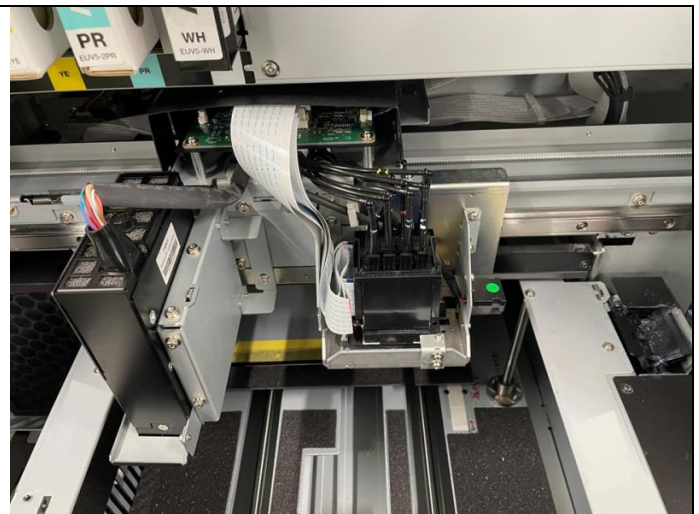
Step 1 / 28

Turn off the main power and unplug the power cable.



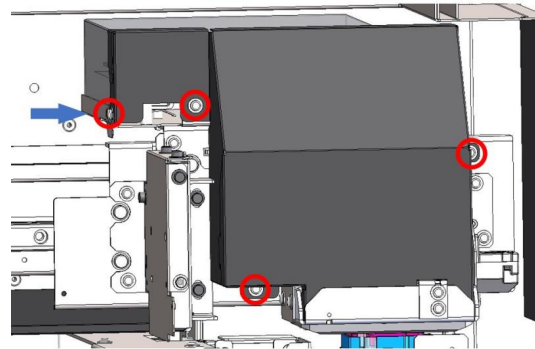
Step 2 / 28

Detail1: Open the front cover, move the print head to the center of the printer, and then remove the carriage cover.



Step 3 / 28

Detail2: Screws to be removed



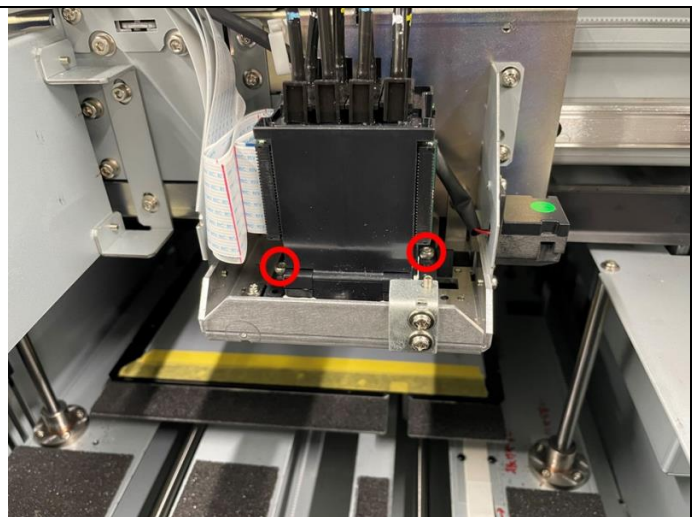
Step 4 / 28

It is recommended that you work with a dry cloth to prevent the screws from falling out.



Step 5 / 28

Remove the hexagonal screws securing the print head.



Step 6 / 28

It is recommended to put a dry cloth to prevent ink from splashing.



Step 7 / 28

Remove the print head that is fixed in place and disconnect the four ribbon cables.



Step 8 / 28

Release the hook and remove the print head from the damper.



Step 9 / 28

Detail1: Install the damper on the new print head.



Step 10 / 28

Detail2: The surface with the letter "F" is the front of the board. Push the print head in so that a click sound is heard and the hook is firmly caught in the print head's claw.



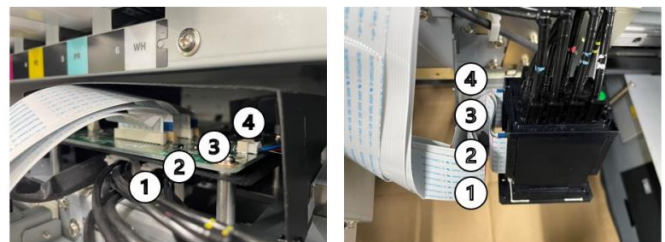
Step 11 / 28

Attach the ribbon cable to the print head.



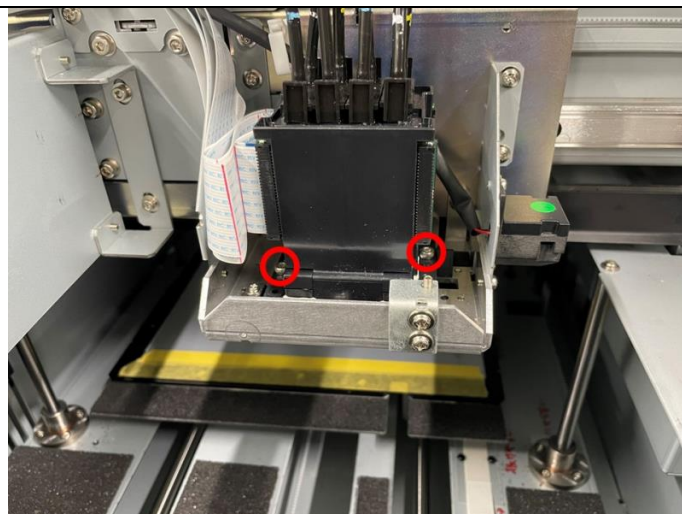
Step 12 / 28

Make sure the ribbon cables are connected correctly in order.



Step 13 / 28

Install the print head and tighten the two hex screws using a torque screwdriver. Use a 60 cN-m torque driver (ST-056 TORQUE DRIVER N6) and a hex bit (1000006902TOOL,BIT HEXAGONAL ST-118) to tighten the screws.



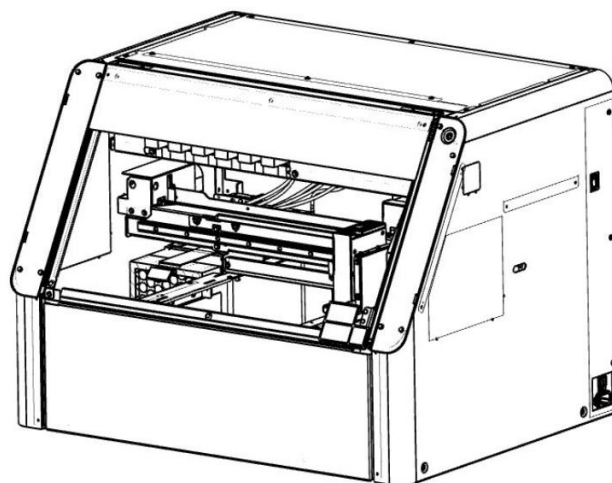
Step 14 / 28

Detail1: If the torque driver contacts the top cover when fixing screws, remove the front and top covers before proceeding.



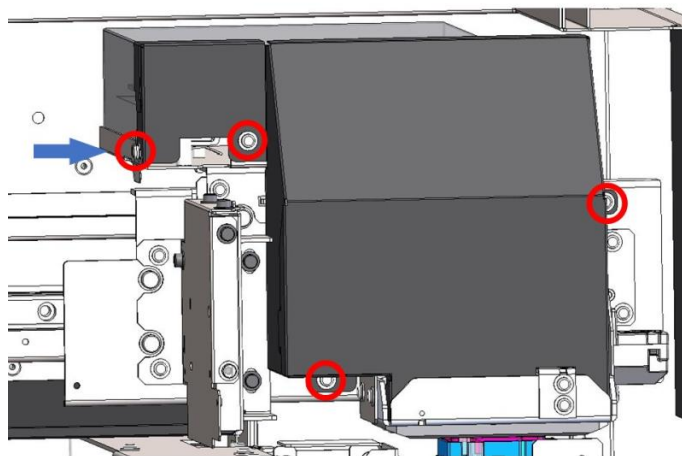
Step 15 / 28

Install the removed cover.



Step 16 / 28

Detail1: Screws to be installed on the carriage cover



Step 17 / 28

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



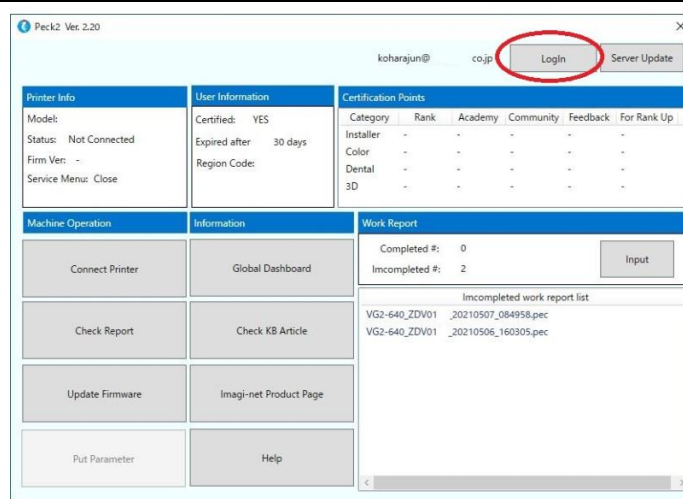
Step 18 / 28

Detail1: Start Peck2.



Step 19 / 28

Detail2: Click the [Login] button.



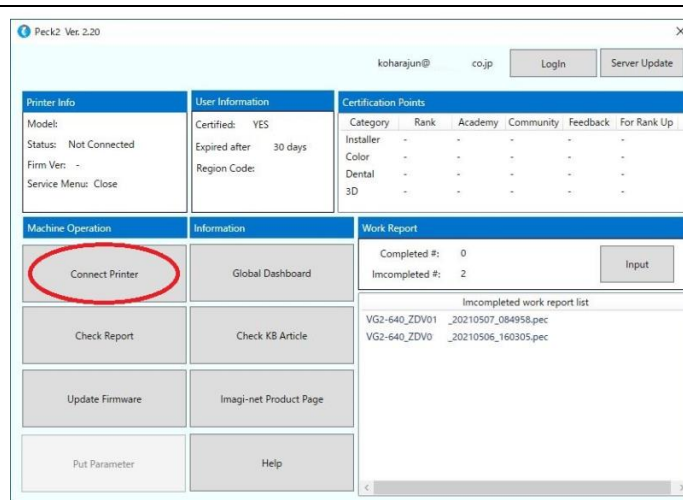
Step 20 / 28

Detail3: Log in with your Imag-net ID.



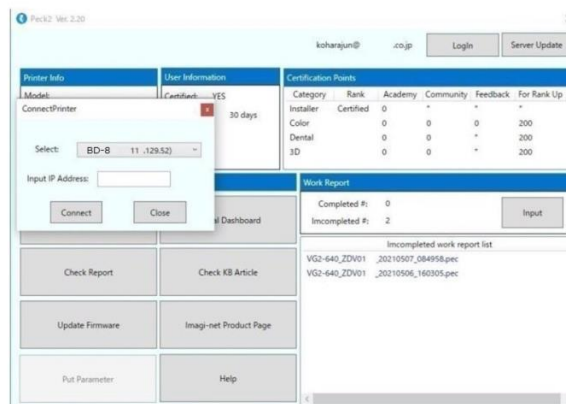
Step 21 / 28

Detail4: Click the [Connect Printer] button.



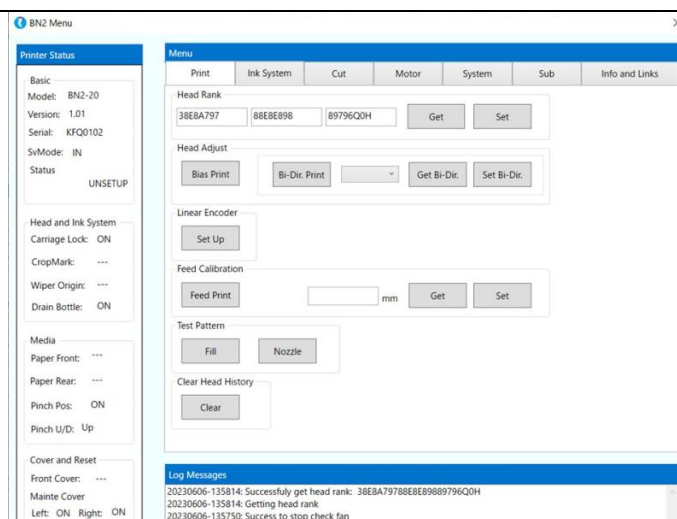
Step 22 / 28

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



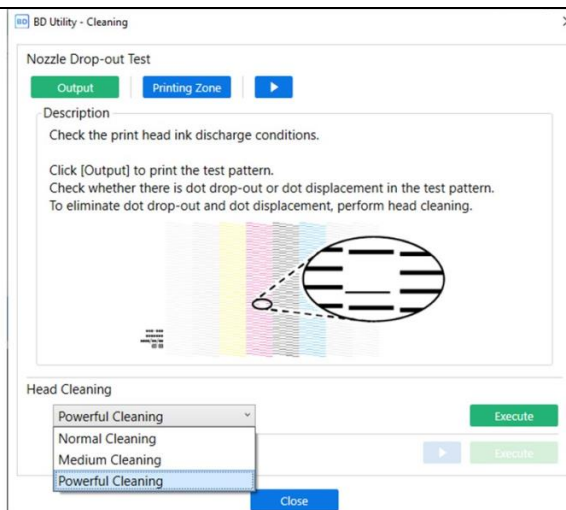
Step 23 / 28

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



Step 24 / 28

Perform Powerful Cleaning to fill ink.



Step 25 / 28

Enter Head rank. Select [Peck2] > [Print] > [Head Rank] and enter the head rank on the print head packing box.

BN2 Menu

Printer Status

Basic

Model: BN2-20

Version: 1.01

Serial: KFQ0102

SvMode: IN

Status: UNSETUP

Head and Ink System

Carriage Lock: ON

CropMark: ---

Wiper Origin: ---

Drain Bottle: ON

Media

Paper Front: ---

Paper Rear: ---

Pinch Pos: ON

Pinch U/D: Up

Cover and Reset

Front Cover: ---

Mainte Cover

Left: ON Right: ON

Menu

Print Ink System Cut Motor System Sub Info and Links

Head Rank

38E8A797 88E8E898 89796QOH Get Set

Head Adjust

Bias Print Bi-Dic Print Get Bi-Dic Set Bi-Dic

Linear Encoder

Set Up

Feed Calibration

Feed Print mm Get Set

Test Pattern

Fill Nozzle

Clear Head History

Clear

Log Messages

20230606-135814: Successfully get head rank: 38E8A79788E8E89889796QOH

20230606-135814: Getting head rank

20230606-135750: Success to stop check fan

Step 26 / 28

Clear Head History. [Print] > [Clear Head History] > [Clear]

BN2 Menu

Printer Status

Basic

Model: BN2-20

Version: 1.01

Serial: KFQ0102

SvMode: IN

Status: UNSETUP

Head and Ink System

Carriage Lock: ON

CropMark: ---

Wiper Origin: ---

Drain Bottle: ON

Media

Paper Front: ---

Paper Rear: ---

Pinch Pos: ON

Pinch U/D: Up

Cover and Reset

Front Cover: ---

Mainte Cover

Left: ON Right: ON

Menu

Print Ink System Cut Motor System Sub Info and Links

Head Rank

38E8A797 88E8E898 89796QOH Get Set

Head Adjust

Bias Print Bi-Dic Print Get Bi-Dic Set Bi-Dic

Linear Encoder

Set Up

Feed Calibration

Feed Print mm Get Set

Test Pattern

Fill Nozzle

Clear Head History

Clear

Log Messages

20230606-135814: Successfully get head rank: 38E8A79788E8E89889796QOH

20230606-135814: Getting head rank

20230606-135750: Success to stop check fan

Step 27 / 28

Clean the print head until a test print can be printed normally in the utility.



ノズル抜けテストで正常に吐出されない場合は
クリーニングを行ってください。

If the nozzle does not eject properly during
the nozzle ejection test, please proceed with
cleaning.

Step 28 / 28

Perform print head alignment.



次の手順

ヘッド位置調整

Next Step

Print head adjustment

BD-8 Damper replacement

BD-8 Damper 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	
ウエス Dry cloth	
マイナスドライバー (1.0mm~2.0mm) Flat head screwdriver(1.0 to 2.0mm)	

Step 2 / 5

Special tools

特殊治具/Special Tools

1000005829 TOOL,VINYL YE UV RESISTANT ST-113	
---	---

Step 3 / 5

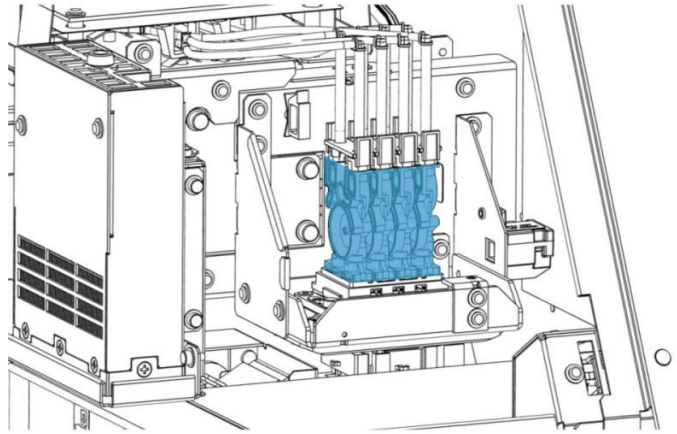
Typical Work Time

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	20 min.

Step 4 / 5

Outline diagram



Step 5 / 5

When removing the cover, use a light-shielding sheet to prevent the ink from curing.



BD-8 Damper replacement

BD-8 Damper replacement Procedure

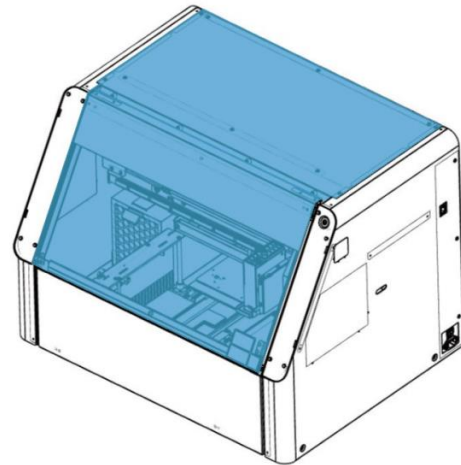
Step 1 / 29

Turn off the main power and unplug the power cable.



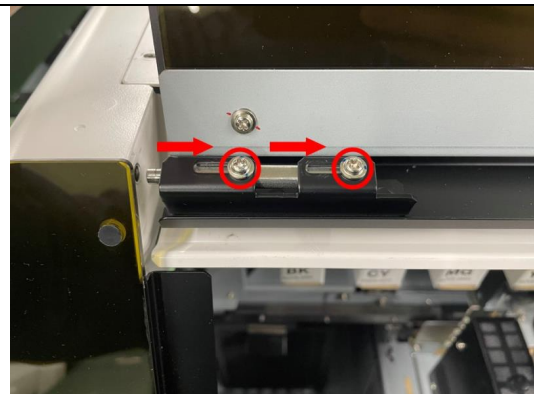
Step 2 / 29

Remove the front and top covers.



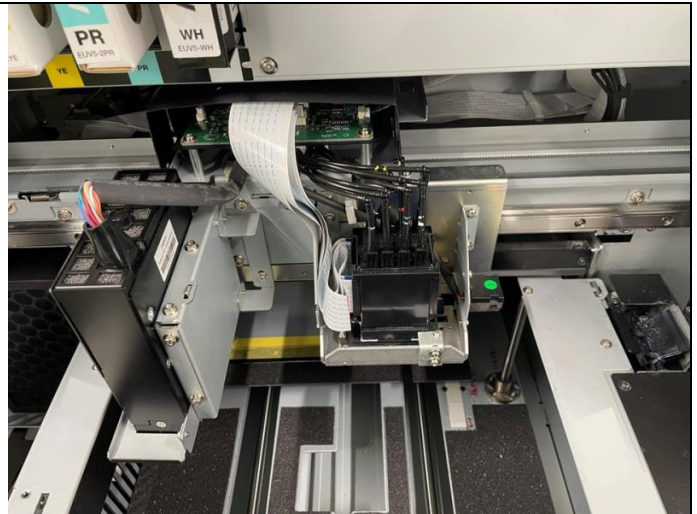
Step 3 / 29

Detail1: Remove the front cover by loosening the screw on the left side of the cover and sliding the bar to the right.



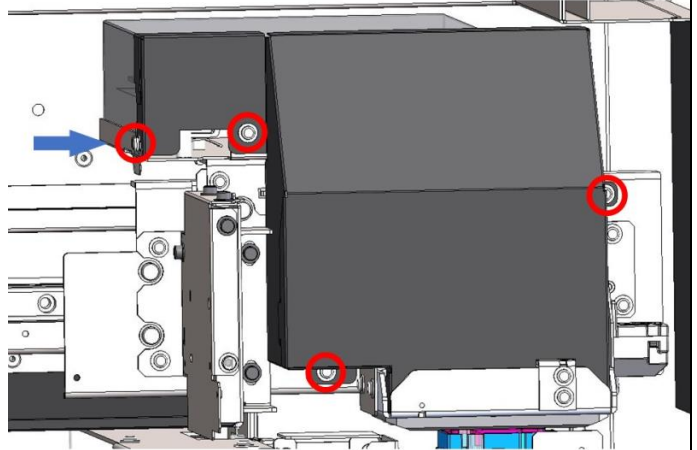
Step 4 / 29

Remove the carriage cover after moving the print head to the center of the printer.



Step 5 / 29

Detail1: Screws to be removed



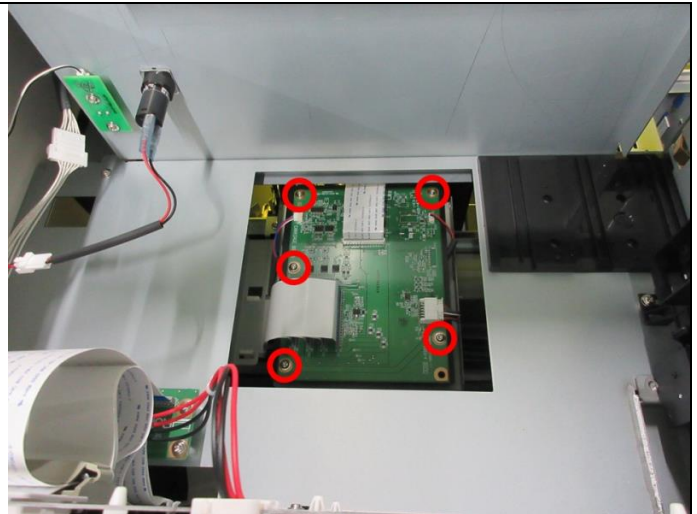
Step 6 / 29

Detail2: It is recommended that you work with a dry cloth to prevent the screws from falling out.



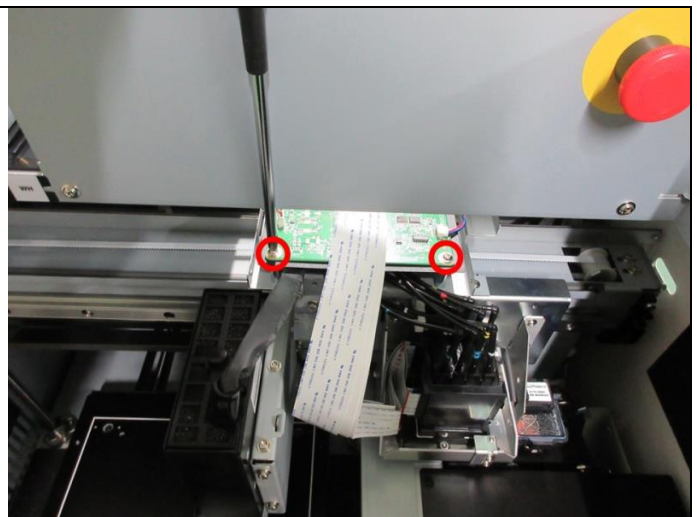
Step 7 / 29

Open the top cover to find a cutout for accessing the board. Remove the five screws securing the print carriage board by accessing it through the cutout.



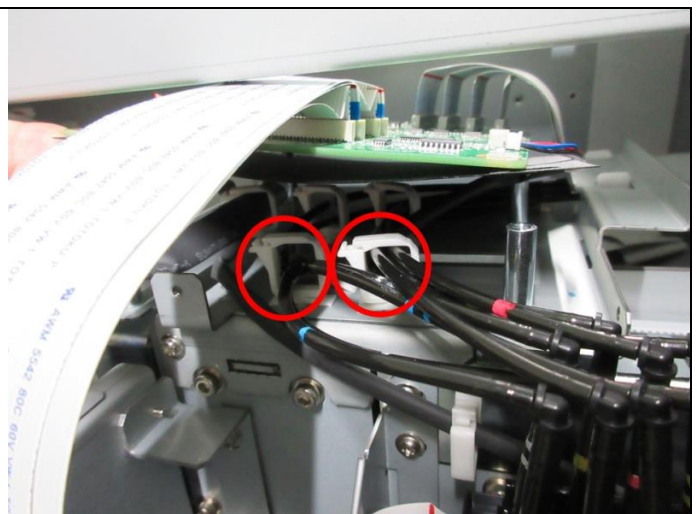
Step 8 / 29

Detail1: Remove the two screws of the board on the front side of the machine from the front.



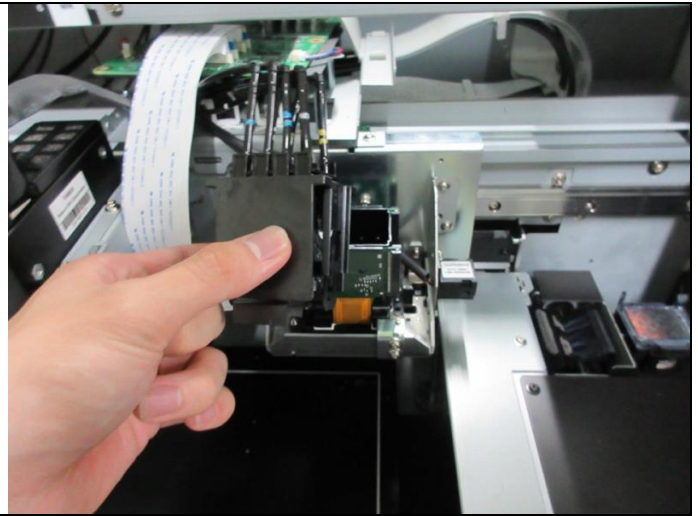
Step 9 / 29

Remove the two saddle clamps securing the tubes.



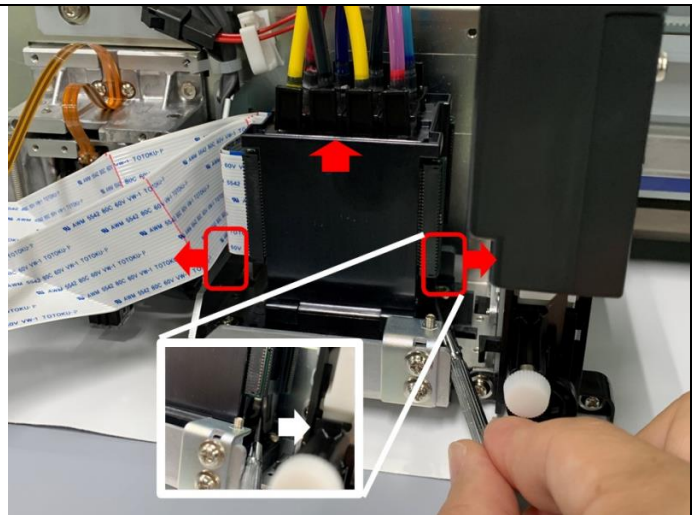
Step 10 / 29

Remove the damper from the print head. Be careful not to break the tube or allow ink to drip into the print head. To prevent ink splattering, it is recommended that you put a dry cloth to do the work.



Step 11 / 29

Detail1: Open the left and right claws outward and lift up the damper.



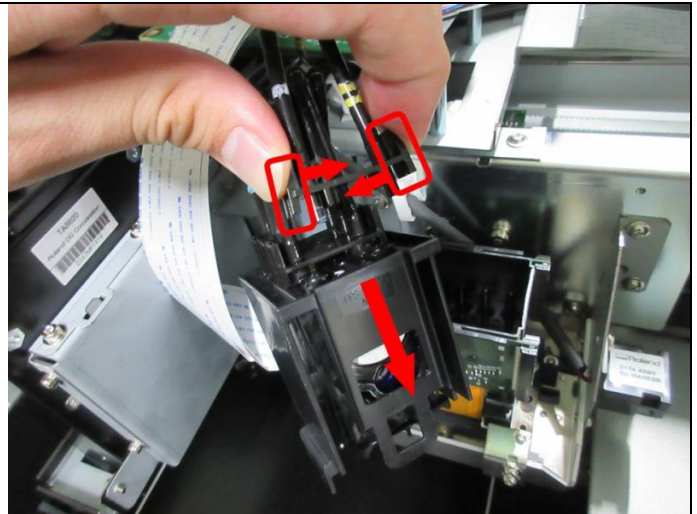
Step 12 / 29

Do not touch the damper valve when removing it, as ink will leak from the damper if you touch it. Also, if ink adheres to the substrate of the print head, the print head will be damaged.



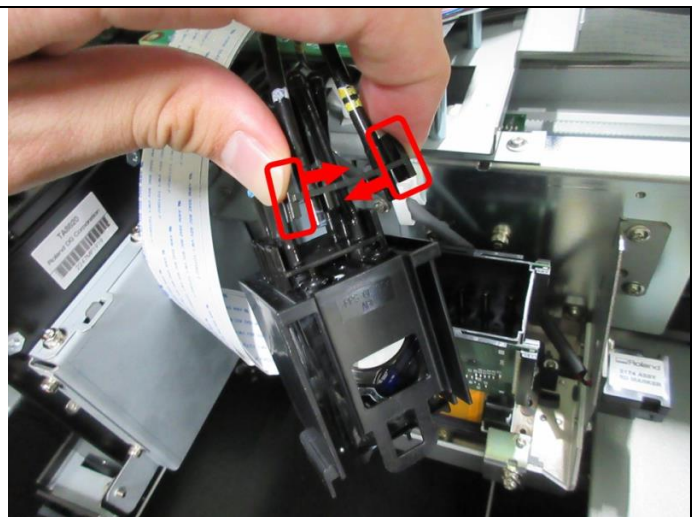
Step 13 / 29

Remove the damper by pinching the tabs on the top of the damper inward and pull the damper out from the bottom side. Be sure to replace the damper one by one.



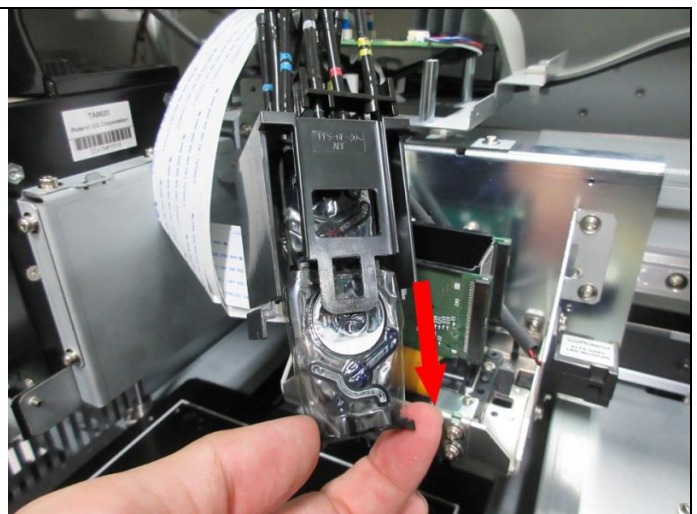
Step 14 / 29

Detail1: Pinch both ends of the damper joint at the top of the damper to remove the joint.



Step 15 / 29

Detail2: Pull out the damper from the lower side.



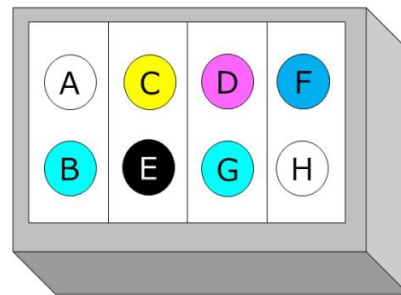
Step 16 / 29

Detail3: Install the new damper into the damper cover.



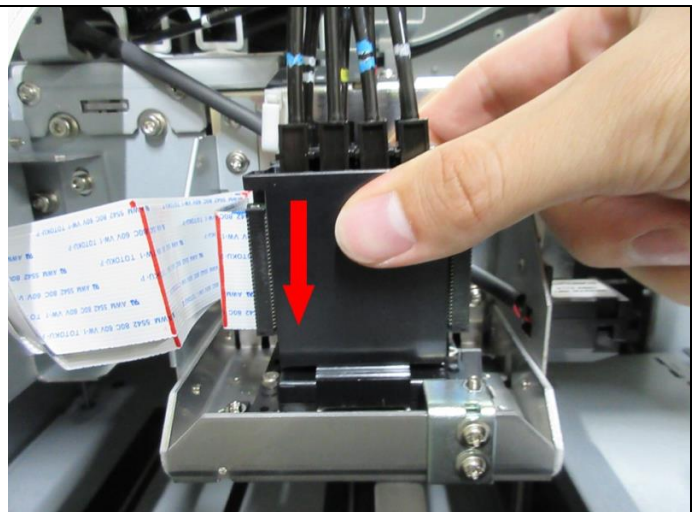
Step 17 / 29

When installing the damper, be careful not to mistake the ink line to be connected.



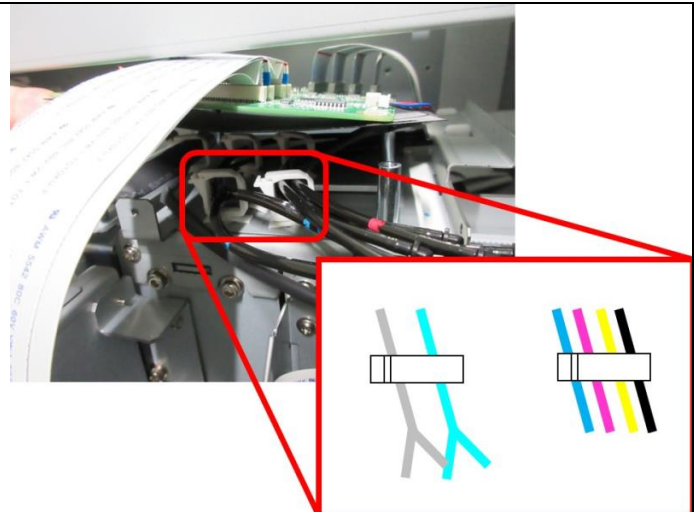
Step 18 / 29

Push the damper cover in so that a click sound is heard and the hook is firmly caught in the print head claw. If it is not inserted until it clicks, air will get mixed in and cause problems such as poor ink ejection.



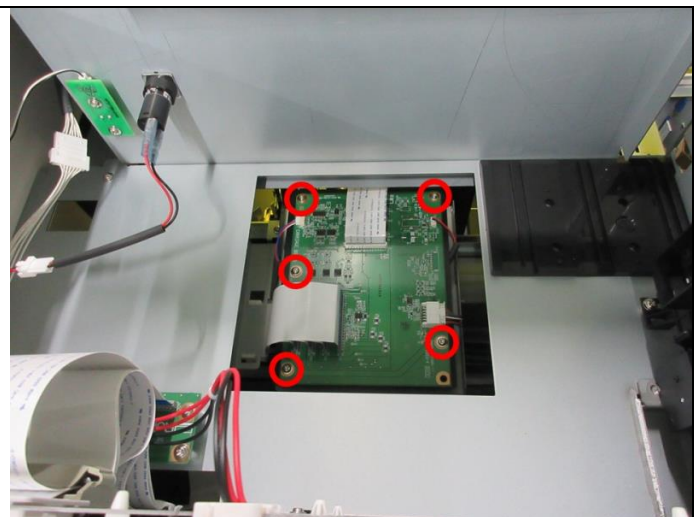
Step 19 / 29

Attach the tube to the saddle clamp. Be careful how you handle the tubes.



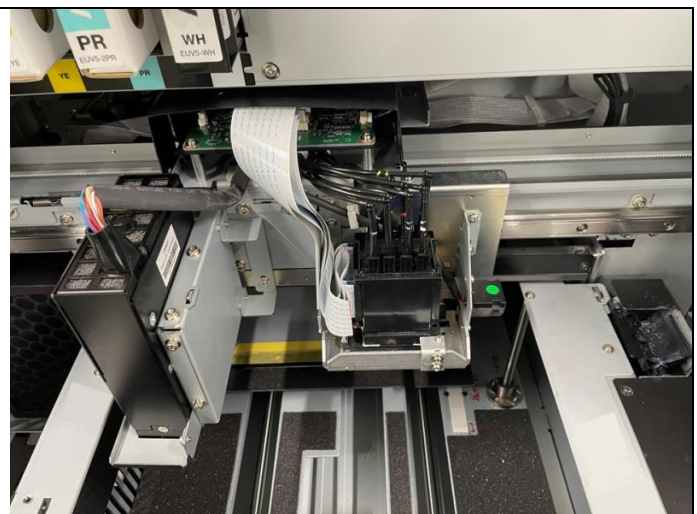
Step 20 / 29

Secure the board with the five screws.



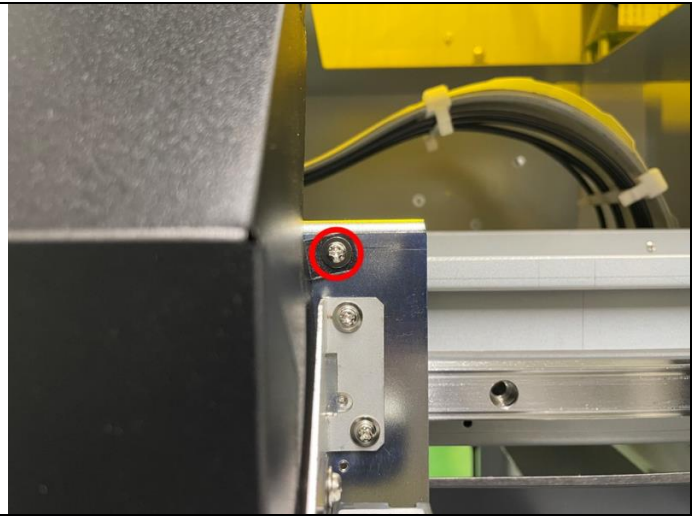
Step 21 / 29

Move the print head to the center of the printer and then attach the carriage cover.



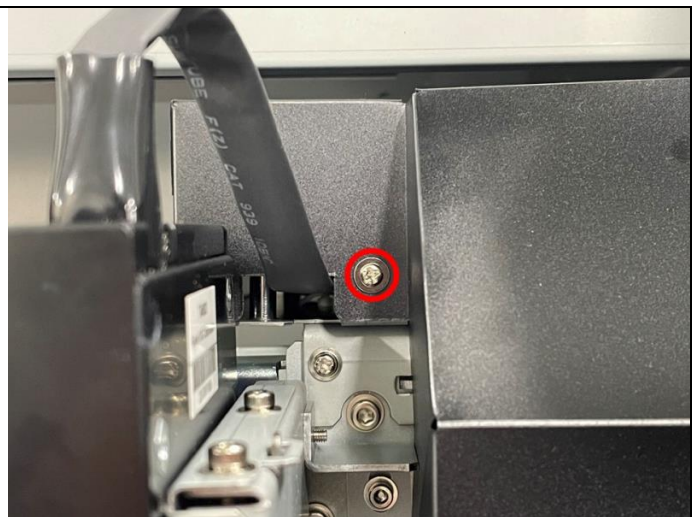
Step 22 / 29

Detail1: Screw (right side)



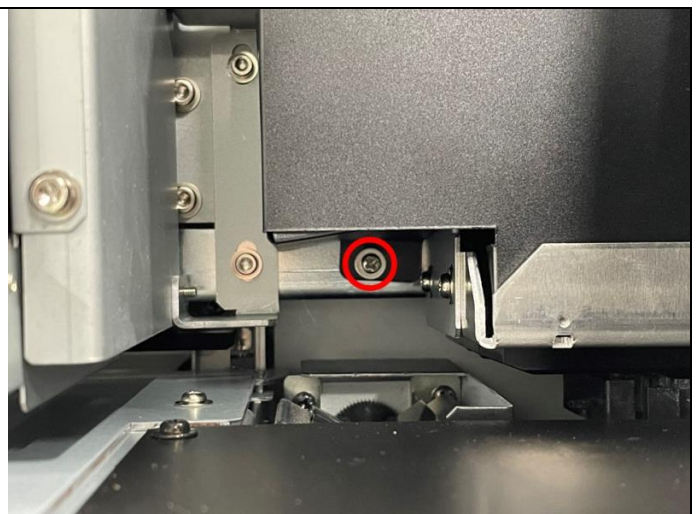
Step 23 / 29

Detail2: DetailScrew (upper left side)



Step 24 / 29

Detail3: Screw (lower left side)



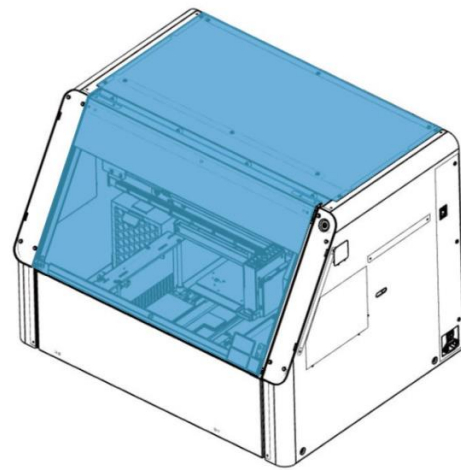
Step 25 / 29

Detail4: Screw (left side)



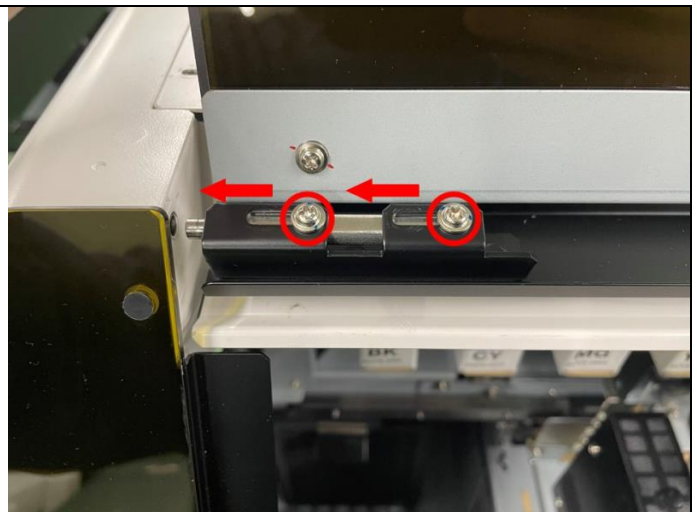
Step 26 / 29

Close the cover.



Step 27 / 29

Detail1: Slide and insert the bar, then tighten the screws to install the front cover.



Step 28 / 29

Perform powerful cleaning and ink filling.

BD Utility - Initial Adjustment

Nozzle Drop-out Test

Output

Printing Zone



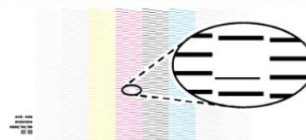
Description

Check the print head ink discharge conditions.

Click [Output] to print the test pattern.

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

To eliminate dot drop-out and dot displacement, perform head cleaning.



Head Cleaning

Normal Cleaning

Normal Cleaning

Medium Cleaning

Powerful Cleaning

Execute



Execute

OK

Step 29 / 29

Perform powerful cleaning until a test print can be printed successfully with the BD Utility.



ノズル抜けテストで正常に吐出されない場合は
クリーニングを行ってください。

If the nozzle does not eject properly during
the nozzle ejection test, please proceed with
cleaning.

BD-8 Cap top replacement

BD-8 Cap top replacement Information

Step 1 / 4

The replacement procedure for the cap top is the same as the user replacement procedure.



Step 2 / 4

Necessary Tools

一般ツール/General Tool

手袋 Groves	
保護メガネ Goggle	

Step 3 / 4

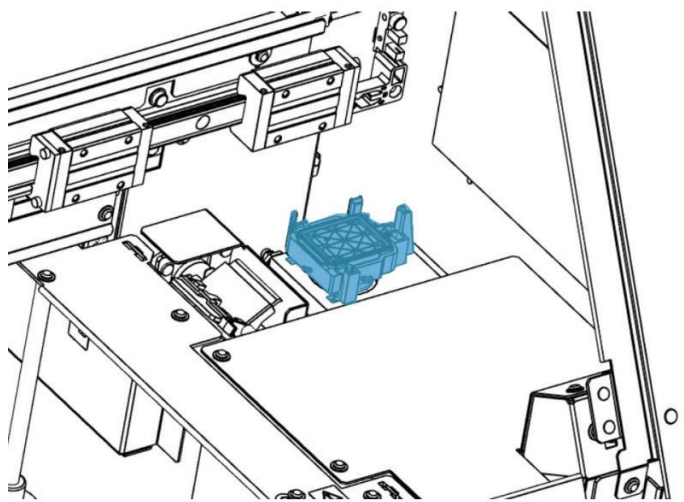
Typical Work Time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
キャップトップ交換 Cap top replacement	5 min.

Step 4 / 4

Outline diagram

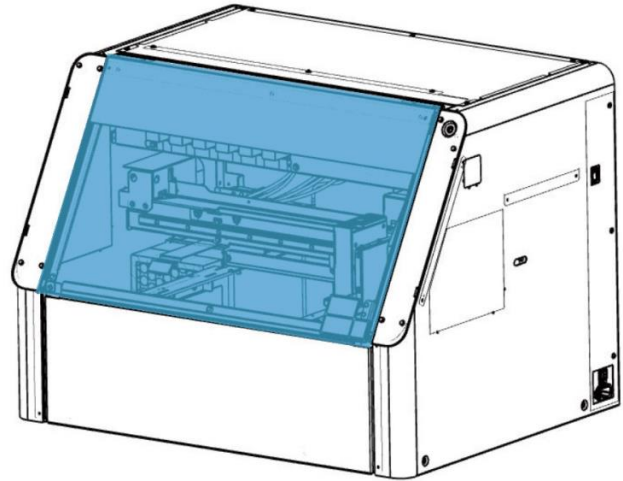


BD-8 Cap top replacement

BD-8 Cap top replacement Procedure

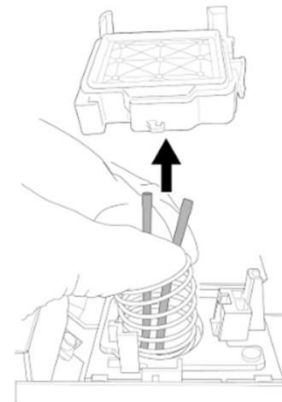
Step 1 / 17

Open the front cover.



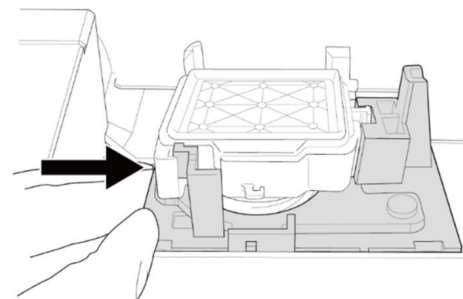
Step 2 / 17

Remove the cap top.



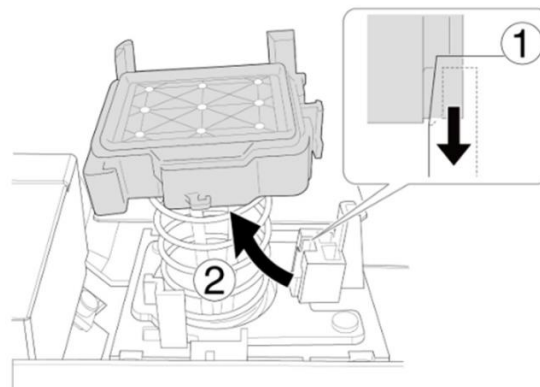
Step 3 / 17

Detail1: Push the base to the right where the cap is attached.



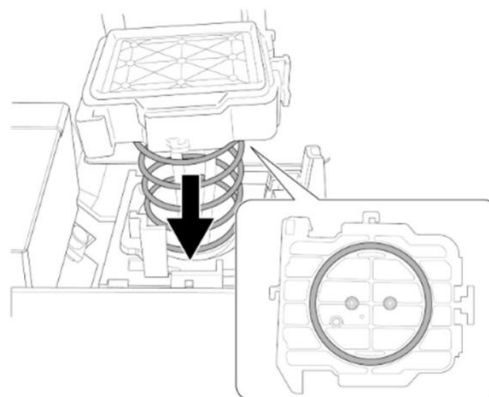
Step 4 / 17

Detail2: While pressing the T-shaped hook on the right side of the cap, remove the hook from the groove of the base.



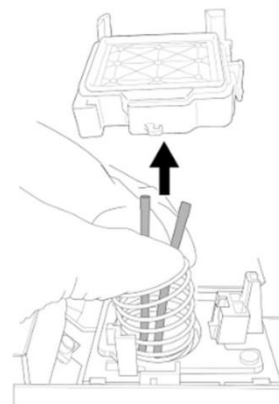
Step 5 / 17

Detail3: Remove the spring from the groove.



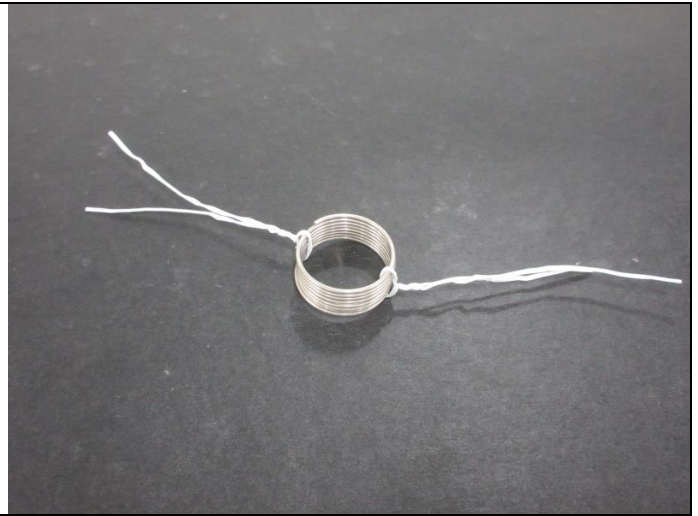
Step 6 / 17

Detail4: Disconnect the tube connected to the cap.



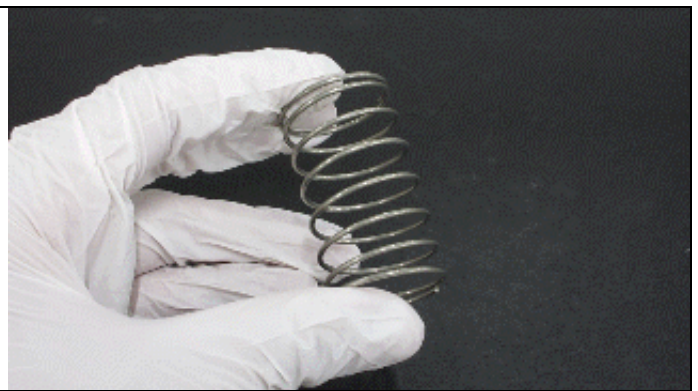
Step 7 / 17

To easily connect the tube to the cap, fix the spring with a cable with the spring compressed.



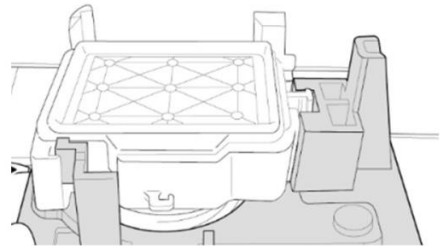
Step 8 / 17

Detail1: Video: How to fix the spring



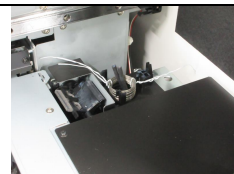
Step 9 / 17

Install a new cap top.

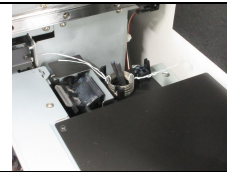


Step 10 / 17

Detail1: Place the spring in the groove

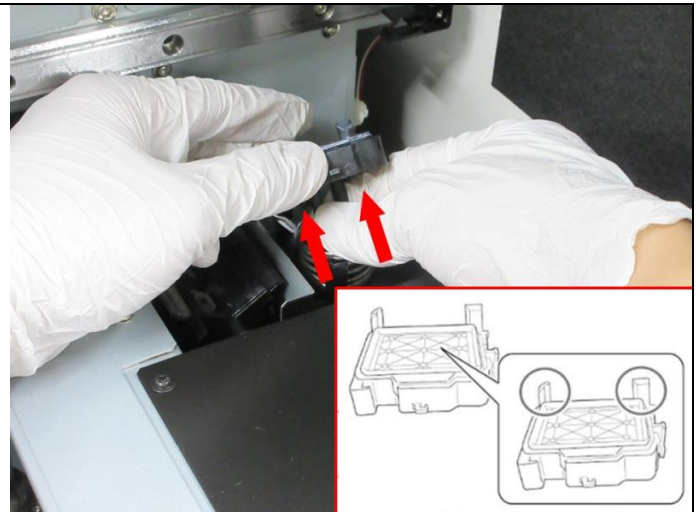


on the side of the cap station while keeping the spring compressed.



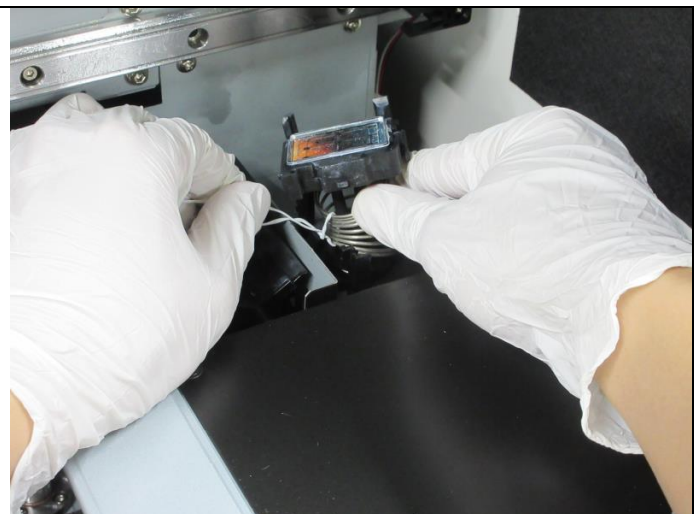
Step 11 / 17

Detail2: Attach the new cap to the tube, being careful to orient the cap. The tube can be installed from either side.



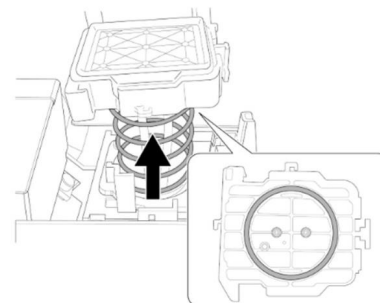
Step 12 / 17

Detail3: Remove the cable tie. *Remove the cable tie while holding the spring.



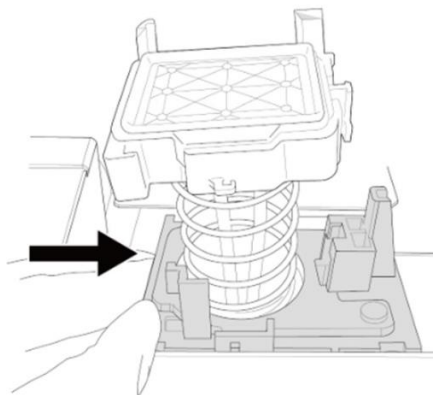
Step 13 / 17

Detail4: Insert the spring into the groove.



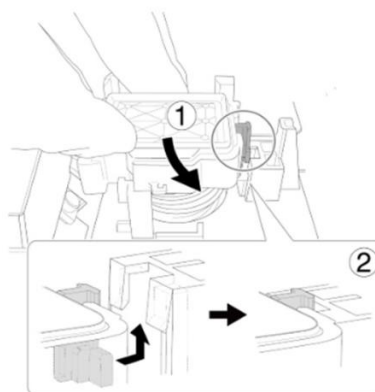
Step 14 / 17

Detail5: Push the base on which the cap is attached to the right side.



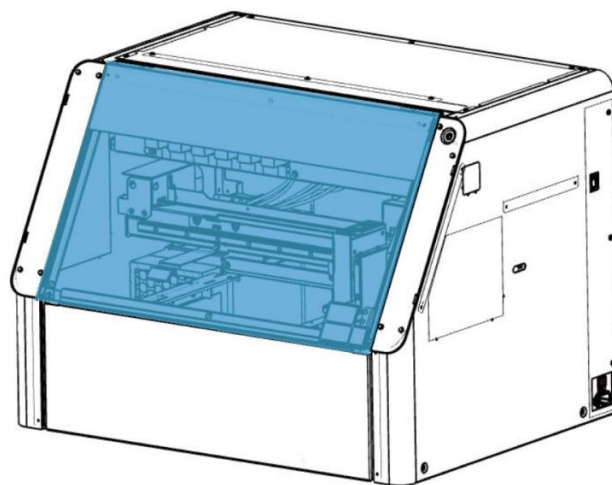
Step 15 / 17

Detail6: While pressing the T-shaped hook on the right side of the cap, insert the hook into the groove on the base.



Step 16 / 17

Close the front cover.



Step 17 / 17

If the nozzle does not eject ink properly,
clean the print head.



ノズル抜けテストで正常に吐出されない場合は
クリーニングを行ってください。

If the nozzle does not eject properly during
the nozzle ejection test, please proceed with
cleaning.

BD-8 Main board replacement

BD-8 Main board replacement Information

Step 1 / 5

Next Work 53 BD-8 Flushing position
adjustment 54 BD-8 Limit position
initialization 64 BD-8 Feed calibration
71 BD-8 Print area offset adjustment



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



特殊治具/Special Tools

1000005829
TOOL,VINYL YE UV RESISTANT ST-113



Step 3 / 5

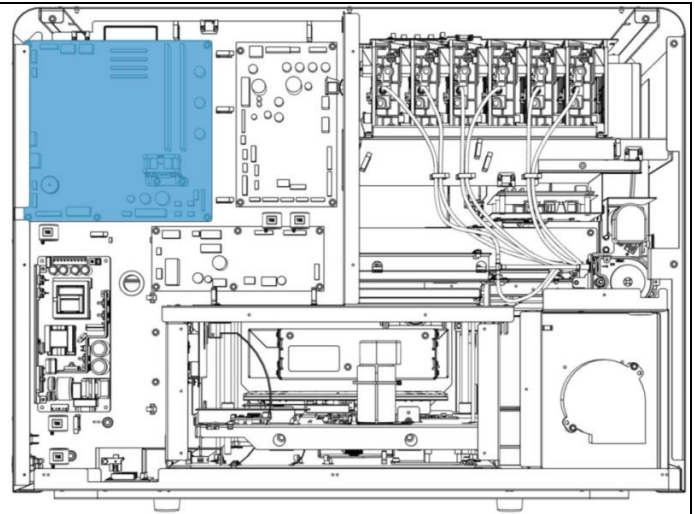
Typical Work Time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
メインボード交換 (Peck2でのパラメーターの移し替えが可能な場合) Main board replacement (When parameters can be transferred by Peck2)	30 min.
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) Main board replacement (When parameters cannot be transferred by Peck2)	50 min.

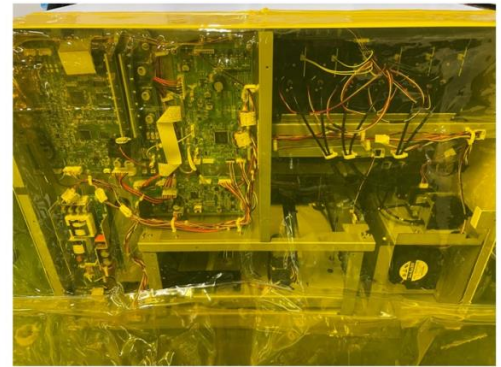
Step 4 / 5

Outline diagram



Step 5 / 5

When removing the cover, use a light-shielding sheet to prevent the ink from curing.



BD-8 Main board replacement

BD-8 Main board replacement Procedure

Step 1 / 46

Connect Peck2 to the machine and acquire the Parameter; the Parameter is automatically acquired when Peck2 is connected.

Peck2 Ver. 2.9.0

titoh@rolanddg.co.jp

Login

Server Update

Printer Info

Model:

Status: Not Connected

Firm Ver: -

Service Menu: Close

User Information

Certified: YES

Expired after: 16 days

Region Code:

Certification Points

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

Machine Operation

Connect Printer

Check Report

Update Firmware

Put Parameter

Information

Global Dashboard

Start SV Assist App

Help

Site Links

RDG Connect Page

Imagi-net Product Page

Check KB Article

Work Report

Completed #: 0

Incompleted #: 11

Input

Incompleted work report list

VG3-640_KFD0004_20221202_105005.pe

VG3-640_KFD0004_20220614_131742.pe

SG3-540_KFD0003_20221202_105708.pe

LEC2-640_KER0100_20220826_162207.pe

BN2-20A_KFQ0102_20230607_110708.pe

BN2-20A_KFQ0102_20230221_095142.pe

BN2-20_KFQ0102_20230607_110635.pe

BN2-20_KFQ0102_20230608_134245.pe

BN2-20_KFQ0102_20230531_093724.pe

BN2-20_KFQ0102_20230530_170810.pe

Step 2 / 46

Detail1: Start Peck2.

Step 3 / 46

Detail2: on the [Login] button.

Peck2 Ver. 2.20

koharjun@ 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
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

Incompleted #: 2

Input

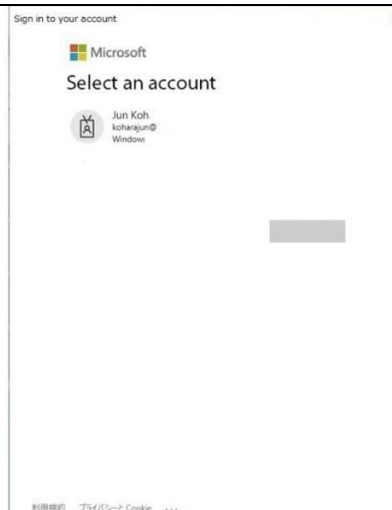
Incompleted work report list

VG2-640_ZDV01_20210957_084958.pe

VG2-640_ZDV01_20210956_160305.pe

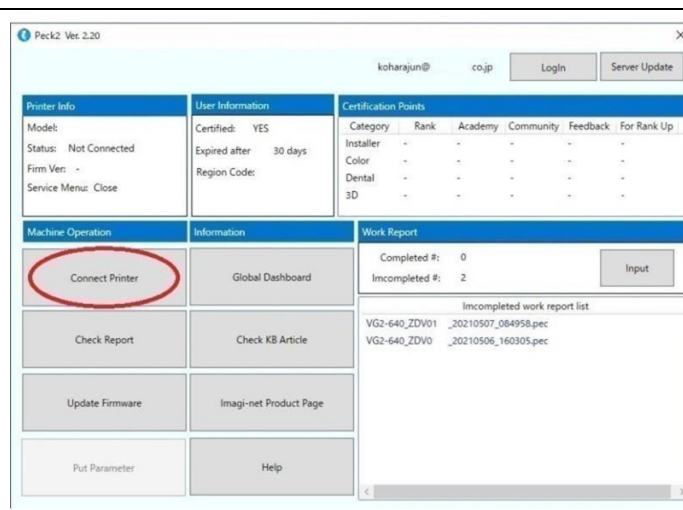
Step 4 / 46

Detail3: Login with your Imagi-net ID.



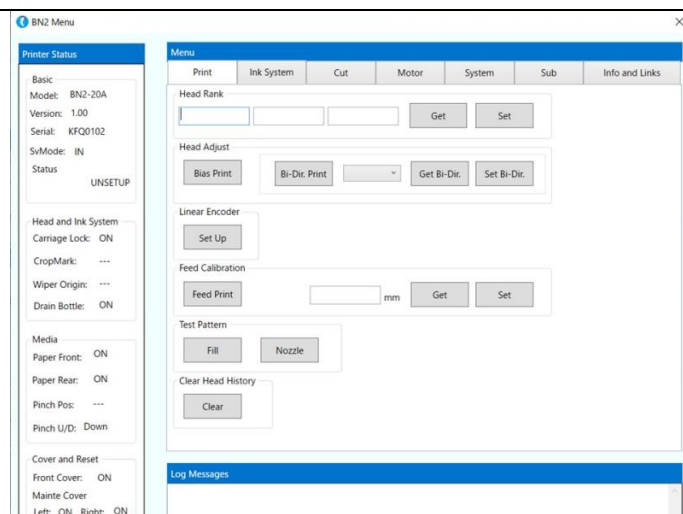
Step 5 / 46

Detail4: Click the [Connect Printer] button.



Step 6 / 46

Detail5: The printer information will be displayed in the [Printer Info] section of the Peck2 main screen, confirming that the printer is connected to the machine.



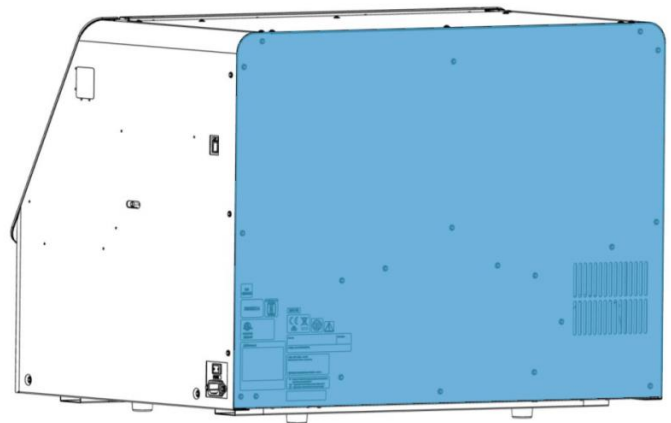
Step 7 / 46

Turn off the main power and unplug the power cable.



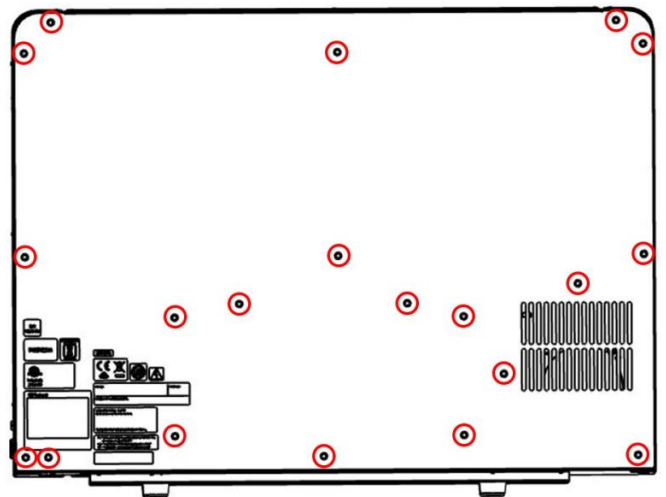
Step 8 / 46

Remove the back cover.



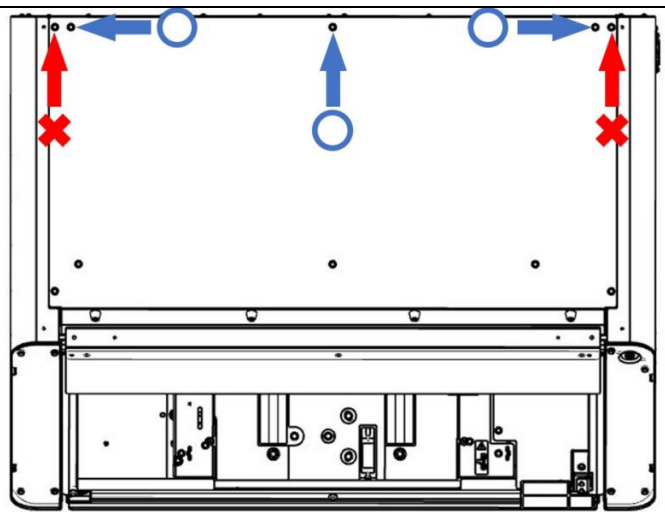
Step 9 / 46

Detail1: Remove the screws (20 places) on the back.



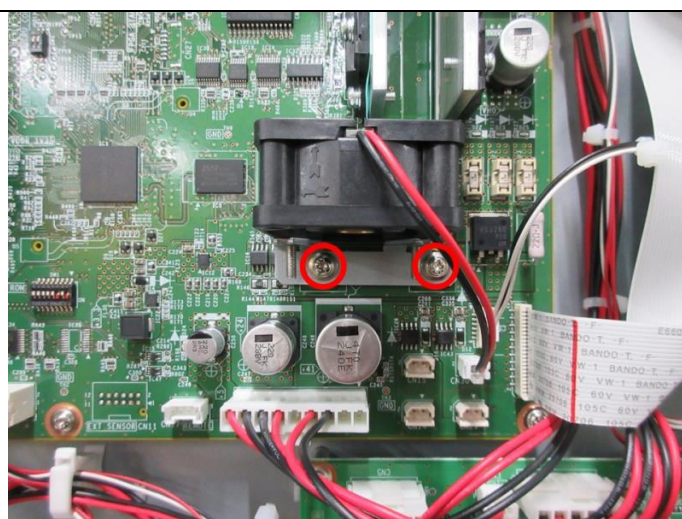
Step 10 / 46

Detail2: Remove the top 3 screws (not the outer two screws) on the back surface.



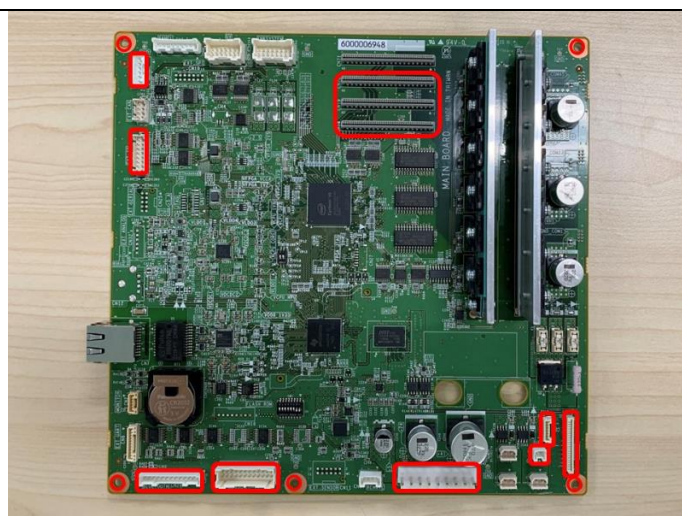
Step 11 / 46

Use a screwdriver to remove the two screws and remove the fan from the board.



Step 12 / 46

Unplug all cables and remove the main board by removing 5 screws with a screwdriver.



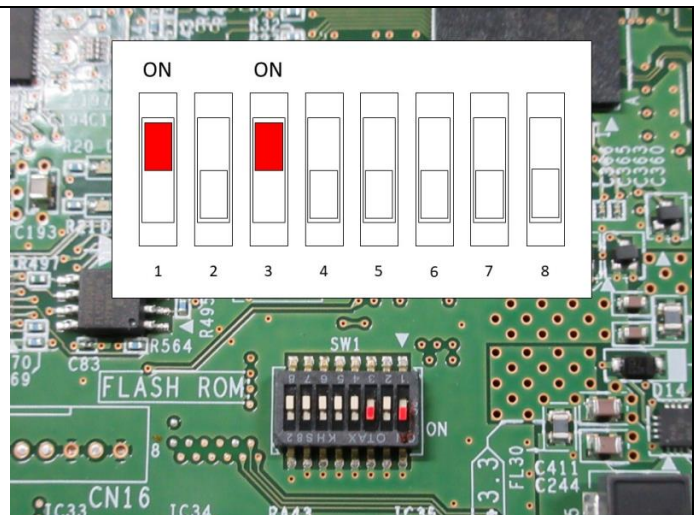
Step 13 / 46

Remove the battery from the removed board.



Step 14 / 46

Set the DIP switches on the new main board.



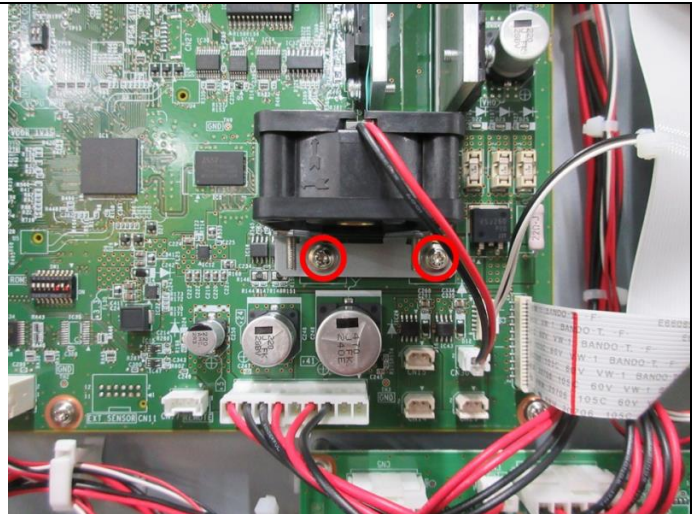
Step 15 / 46

Replace the battery in the new board and install the mainboard with the 5 screws.



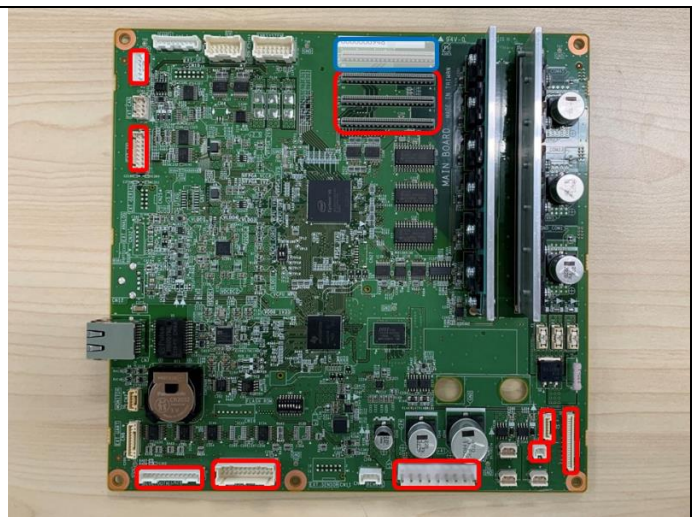
Step 16 / 46

Install the fan.



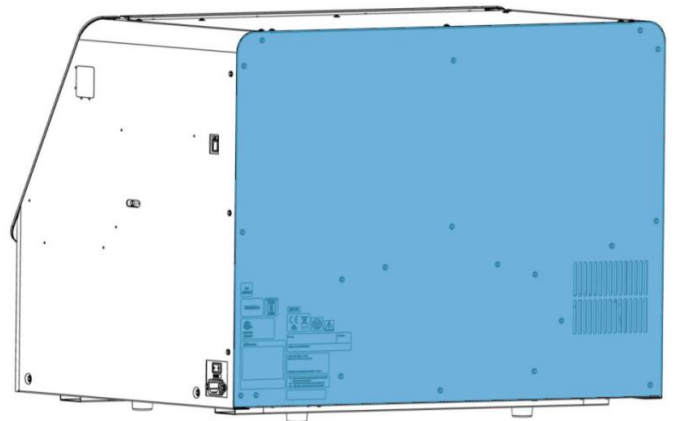
Step 17 / 46

Attach the cables, paying attention to their location and orientation. Be careful not to insert the cables into the connectors marked with blue rectangle.



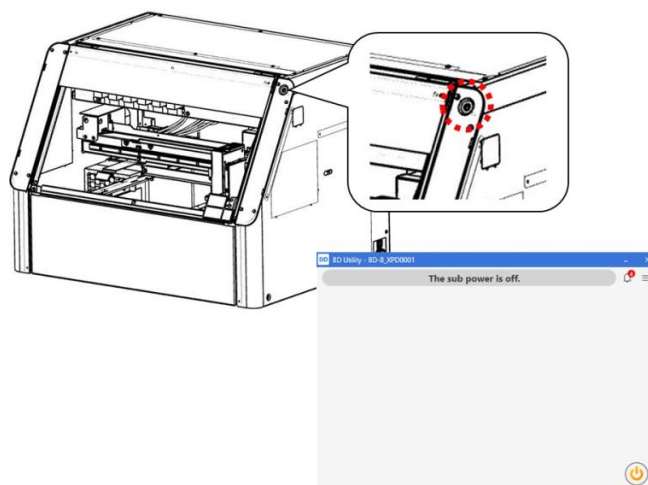
Step 18 / 46

Attach the cover.



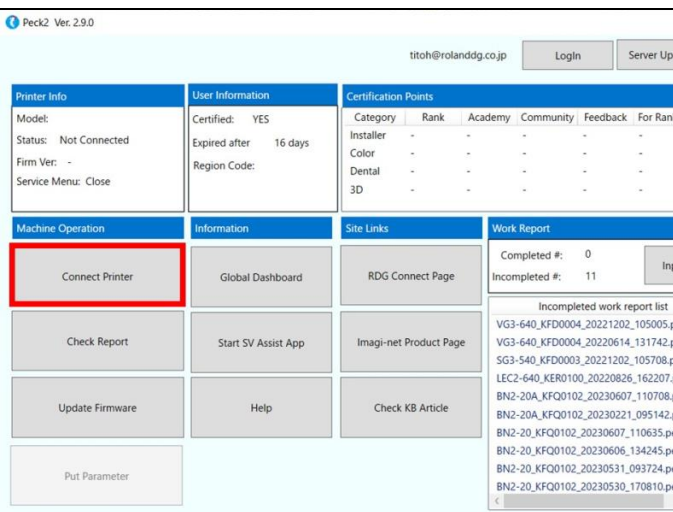
Step 19 / 46

Make sure the sub power of the machine is turned off, and connect the LAN cable to the PC. When connecting to the PC, be sure to set it to obtain an IP address automatically.



Step 20 / 46

Connect Peck2 to the machine and enter the service mode. When connecting, be sure to set your PC to obtain an IP address automatically and use the Search button to search for printers.



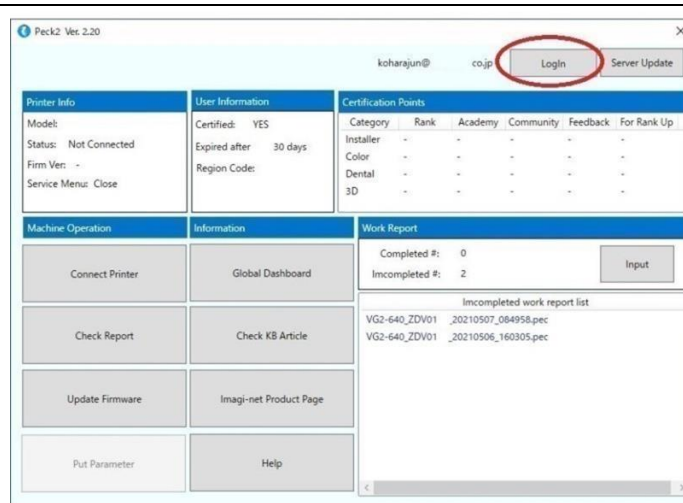
Step 21 / 46

Detail1: Start Peck2.



Step 22 / 46

Detail2: Click the Login button.



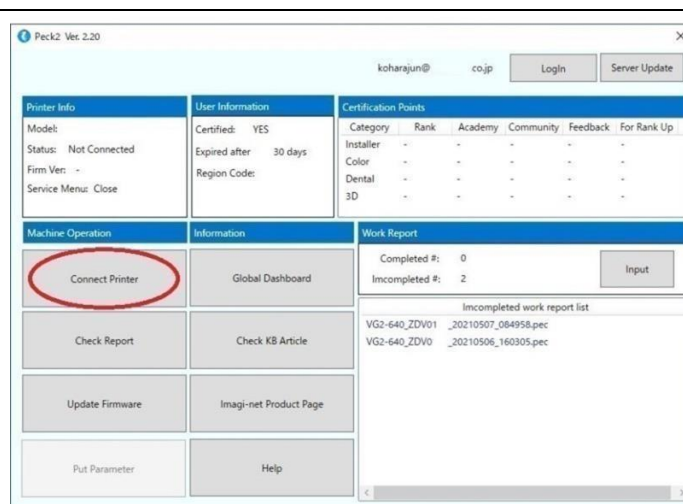
Step 23 / 46

Detail3: Login with your Imagi-net ID.



Step 24 / 46

Detail4: Click the [Connect Printer] button.



Step 25 / 46

Detail5: Search for the IP address of the device you wish to connect to by clicking the [Search] button. If you cannot find the IP address, please check if your PC is set to obtain an IP address automatically.

The screenshot shows the 'Printer Info' section of the Peck2 Ver 2.20 interface. The 'Search' button is highlighted with a red box. The interface also displays 'User Information', 'Certification Points', and 'Work Report' sections.

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

Completed #	Input
0	
2	

Incomplete work report list

- VG2-640_ZDV01_20210507_084958.pec
- VG2-640_ZDV01_20210506_160305.pec

Step 26 / 46

Detail6: Confirm that the printer information is displayed in the [Printer Info] section of the Peck2 main screen and that it is connected to the machine.

The screenshot shows the 'BN2 Menu' interface. The 'Printer Status' section on the left displays the following information:

- Basic: Model: BN2-20A, Version: 1.00, Serial: KFOQ102, SvMode: IN, Status: UNSETUP
- Head and Ink System: Carriage Lock: ON, CropMark: ---, Wiper Origin: ---, Drain Bottle: ON
- Media: Paper Front: ON, Paper Rear: ON, Pinch Pos: ---, Pinch U/D: Down
- Cover and Reset: Front Cover: ON, Mainte Cover: Left: ON, Right: ON

The 'Menu' section on the right contains various settings and controls, including 'Head Rank', 'Head Adjust', 'Linear Encoder', 'Feed Calibration', 'Test Pattern', and 'Clear Head History'.

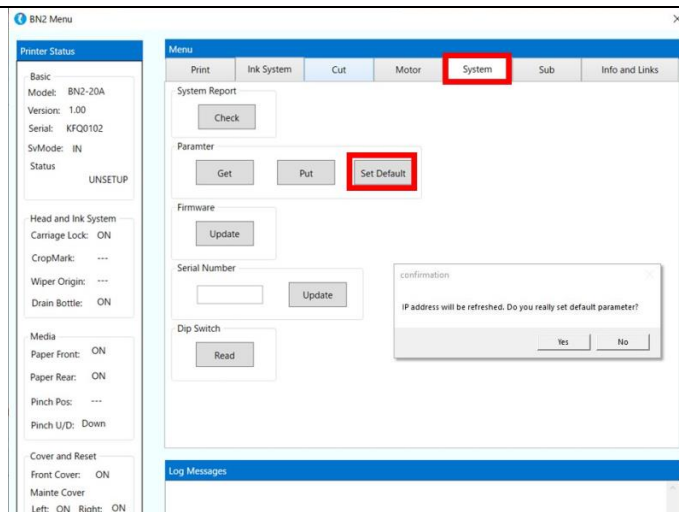
Step 27 / 46

Select [System] > [Firmware] > [Update] on Peck2 to install the firmware.

The screenshot shows the 'BN2 Menu' interface. The 'System' tab is selected and highlighted with a red box. Within the 'System' tab, the 'Firmware' section is highlighted with a red box, and the 'Update' button is also highlighted with a red box.

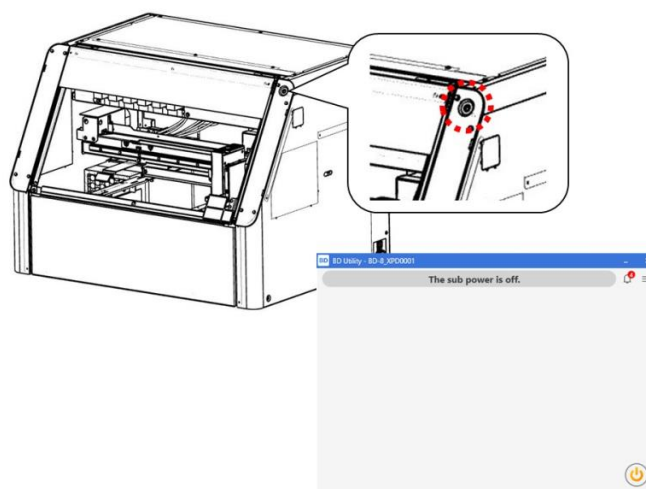
Step 28 / 46

Select [System] > [Parameter] > [Set Default] in Peck2 to initialize the System Parameter. After initialization, the IP address will be reset again.



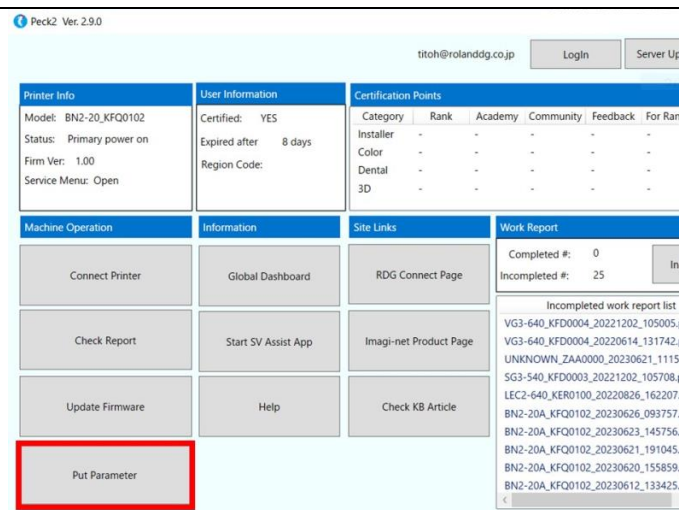
Step 29 / 46

Turn off the sub power to the machine.



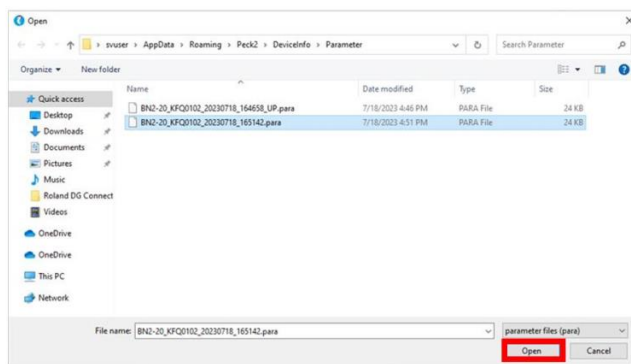
Step 30 / 46

Click the [Put Parameter] button on the TOP screen of Peck2 to apply the selected parameters.



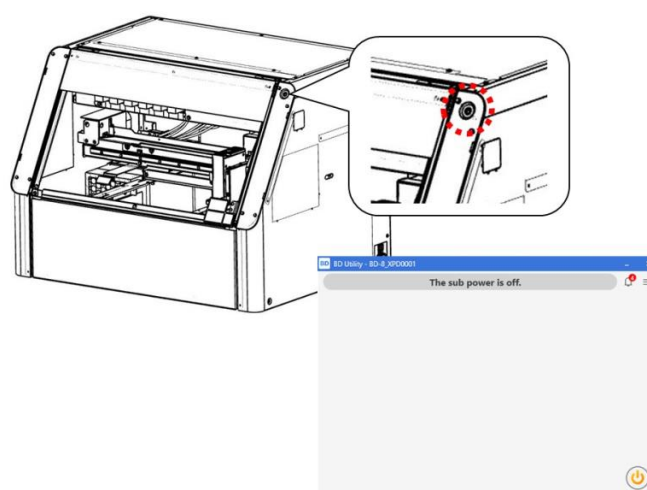
Step 31 / 46

Detail1: Select the saved parameters and click [Open].



Step 32 / 46

Turn off the sub power of the machine.



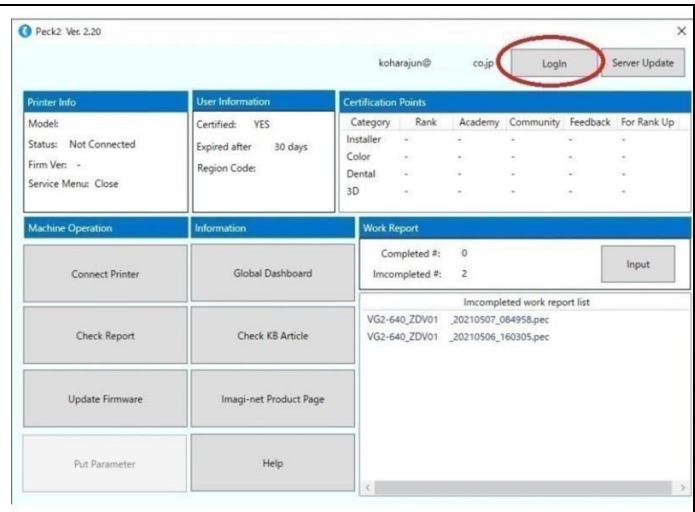
Step 33 / 46

Start Peck2.



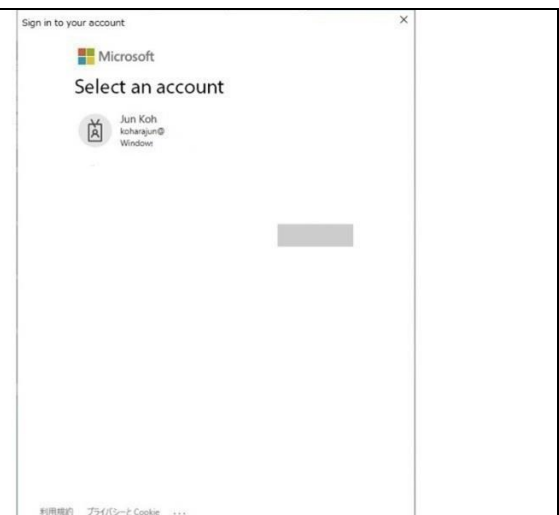
Step 34 / 46

Detail1: Click on the [Login] button.



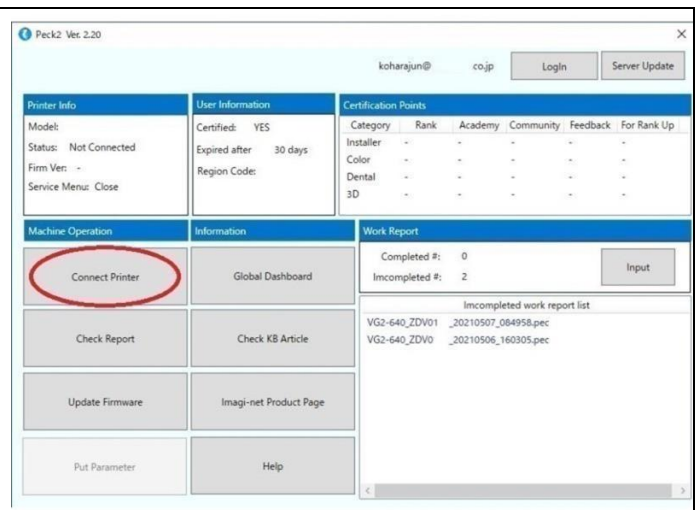
Step 35 / 46

Detail2: Login with your Imagi-net ID.



Step 36 / 46

Detail3: the [Connect Printer] button.



Step 37 / 46

Detail4: Click the [Search] button to search for the IP address of the printer you wish to connect to. If you cannot find the IP address, please check if your PC is set to obtain an IP address automatically.

Peck2 Ver 2.30

Printer Info

Model: BN2-20A

Select from top: BN2-20A

Search

Input IP Address: 79

Connect

Close

Check Report

Check KB Article

Update Firmware

Imagi-net Product Page

Put Parameter

Help

User Information

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

Work Report

Completed #: 0

Input

Imcompleted #: 2

Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pes

VG2-640_ZDV01 _20210506_160305.pes

Step 38 / 46

Detail5: Confirm that the printer information is displayed in [Printer Info] on the Peck2 main screen and that it is connected to the machine.

BN2 Menu

Printer Status

Basic

Model: BN2-20A

Version: 1.00

Serial: KFQ0102

SvMode: IN

Status: UNSETUP

Head and Ink System

Carriage Lock: ON

CropMark: ---

Wiper Origin: ---

Drain Bottle: ON

Media

Paper Front: ON

Paper Rear: ON

Pinch Pos: ---

Pinch U/D: Down

Cover and Reset

Front Cover: ON

Mainte Cover

Left: ON Right: ON

Menu

Print Ink System Cut Motor System Sub Info and Links

Head Rank

Head Adjust

Bias Print Bi-Dir. Print Get Bi-Dir. Set Bi-Dir.

Linear Encoder

Set Up

Feed Calibration

Feed Print mm Get Set

Test Pattern

Fill Nozzle

Clear Head History

Clear

Log Messages

Step 39 / 46

Select the ink type from [Ink System] > [Ink Type] and press [Set].

BN2 Menu

Printer Status

Basic

Model: BN2-20

Version: 1.00

Serial: KFQ0102

SvMode: IN

Status: UNSETUP

Head and Ink System

Carriage Lock: ON

CropMark: ---

Wiper Origin: ---

Drain Bottle: ON

Media

Paper Front: ---

Paper Rear: ---

Pinch Pos: ON

Pinch U/D: Up

Cover and Reset

Front Cover: ON

Mainte Cover

Left: ON Right: ON

IP Reset: ---

Media Setup

Menu

Print Ink System Cut Motor System Sub Info and Links

Wiper Unit

Move

Pump Check

2 seconds Suction Release

Ink Circulation

Start

Ink Type

PIGMENT CMYK

CM MAX2 CMYK

MAX2 CMYKWH

NONE

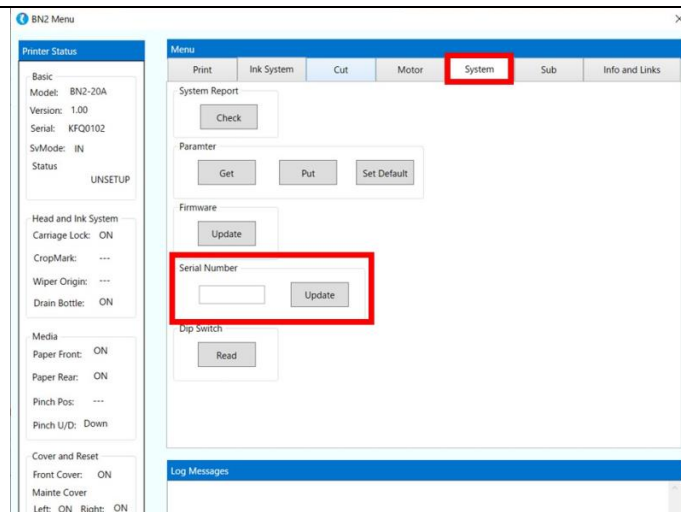
Flushing Position Adjustment

Start

Log Messages

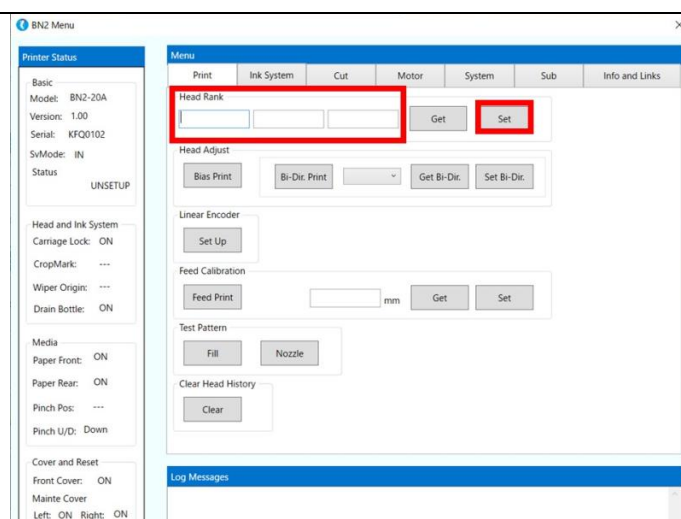
Step 40 / 46

Enter the serial number of the machine in [System] > [Serial Number] and click [Update].



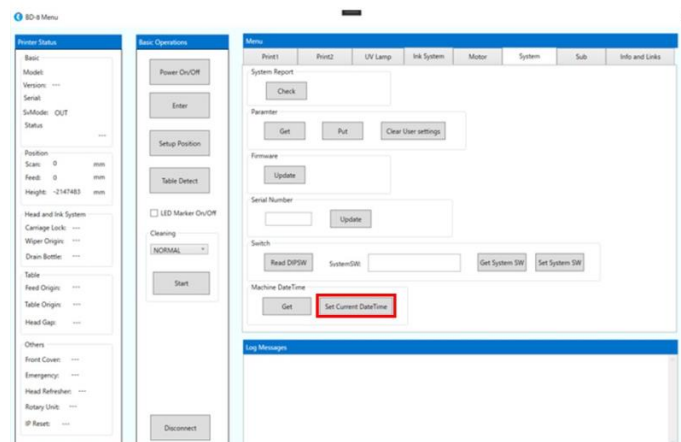
Step 41 / 46

Enter the head rank in [Print] > [Head Rank] and press [Set].



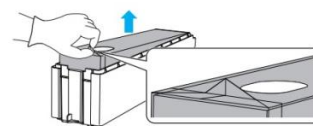
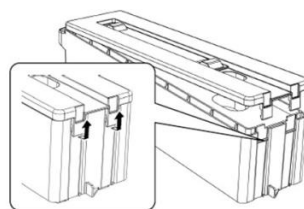
Step 42 / 46

Press [System] > [Machine Date Time] > [Set Current Date Time] button to set the time of the machine.



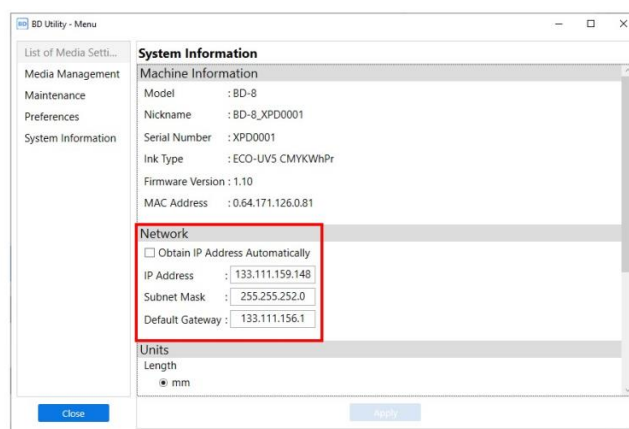
Step 43 / 46

The waste liquid count cannot be reset, so please replace the drain pad. If the pad is not replaced, the waste liquid may overflow.



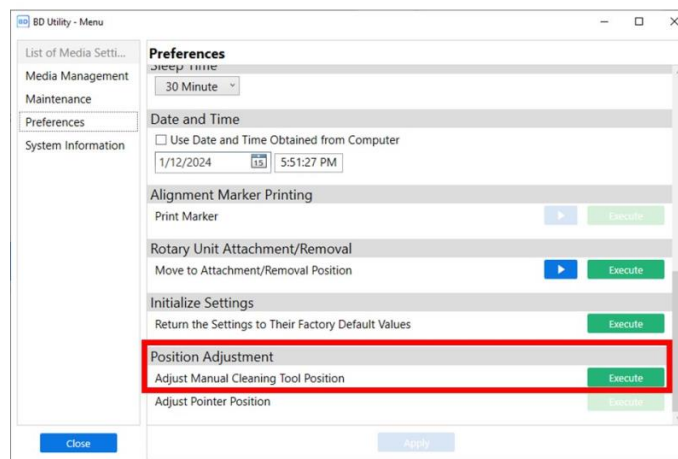
Step 44 / 46

Network Settings



Step 45 / 46

Adjust Manual Cleaning Tool Position



Step 46 / 46

Perform print area adjustment, feed calibration, flushing position adjustment and Limit position initialization.



次の手順

印刷領域調整
距離補正
フラッシング位置調整
リミット位置調整

Next Step

Print area adjustment
FEED calibration
Flushing position adjustment
Limit position initialization

BD-8 Servo board replacement

BD-8 Servo board 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

1000005829
TOOL,VINYL YE UV RESISTANT ST-113



Step 2 / 4

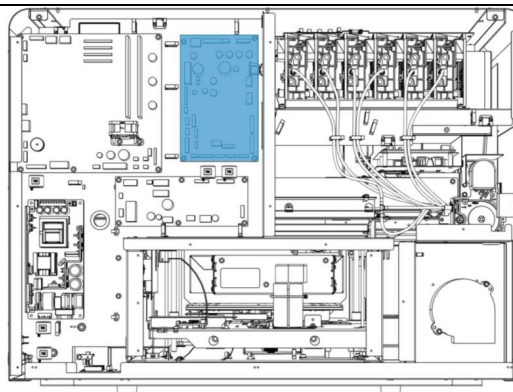
Typical Work Time

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.

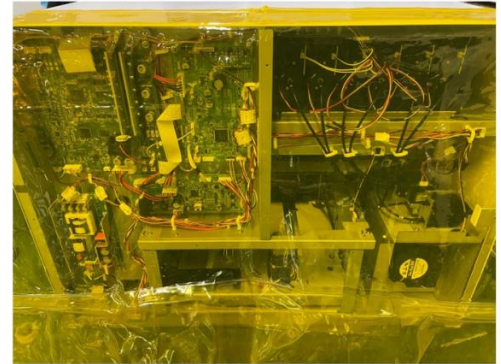
Step 3 / 4

Outline diagram



Step 4 / 4

When removing the cover, use a light-shielding sheet to prevent the ink from curing.



BD-8 Servo board replacement

BD-8 Servo board replacement Procedure

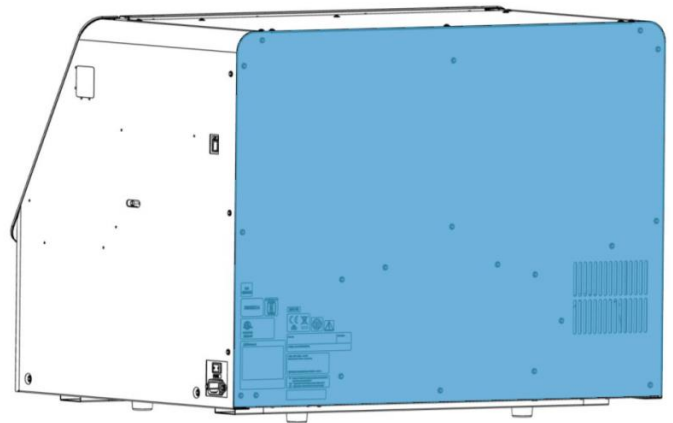
Step 1 / 8

Turn off the main power and unplug the power cable.



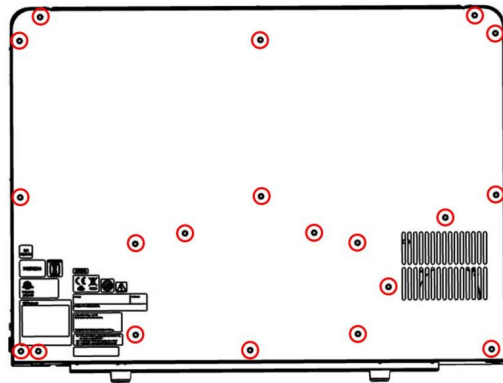
Step 2 / 8

Remove the back cover.



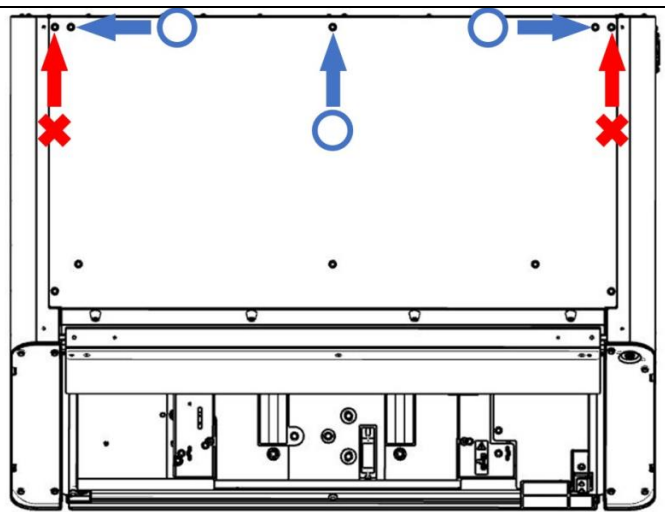
Step 3 / 8

Detail1: Remove the screws (20 locations) on the back side.



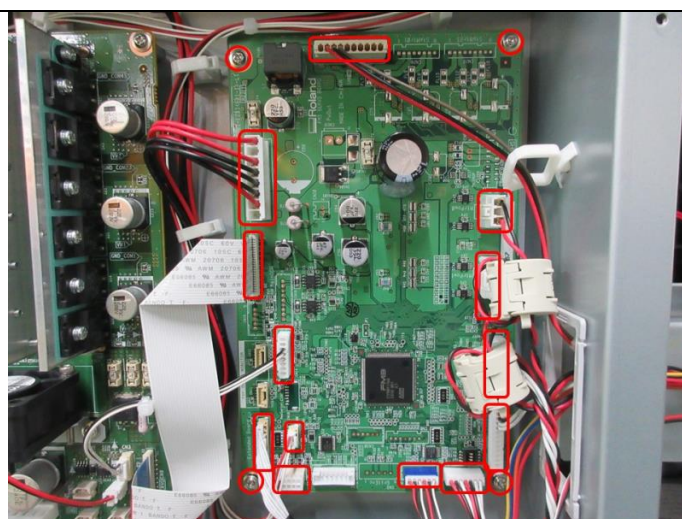
Step 4 / 8

Detail2: Remove the top 3 screws (not the outer two screws) on the back surface.



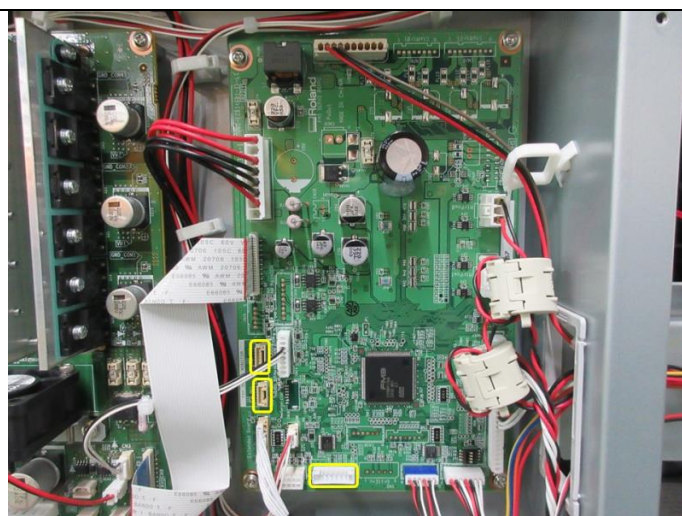
Step 5 / 8

Remove the connectors and screws (4 locations) connected to the servo board and replace with a new servo board.



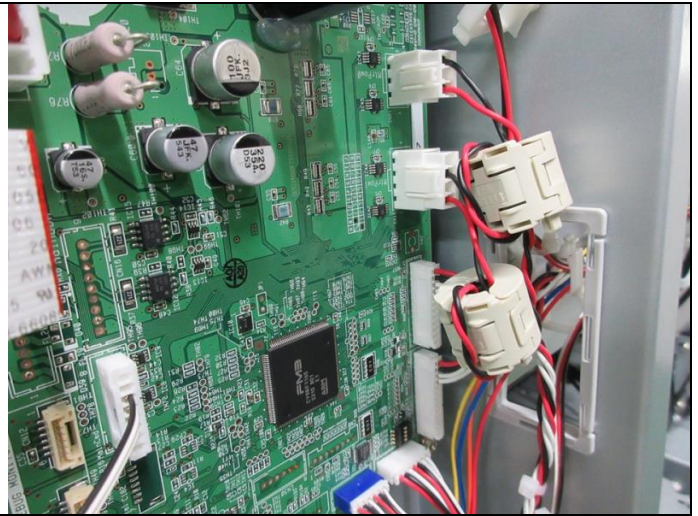
Step 6 / 8

Detail1: Note that there are no connectors to be attached to the yellow parts.



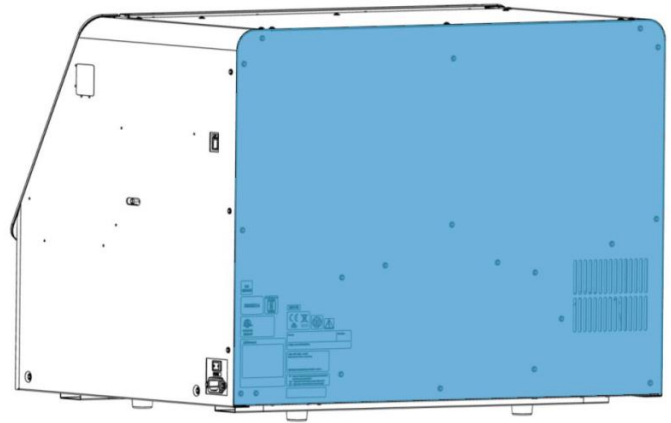
Step 7 / 8

Detail2: Connectors to be attached



Step 8 / 8

Attach the cover.



BD-8 Switching power supply board replacement

BD-8 Switching power supply board 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

1000005829
TOOL,VINYL YE UV RESISTANT ST-113



Step 2 / 4

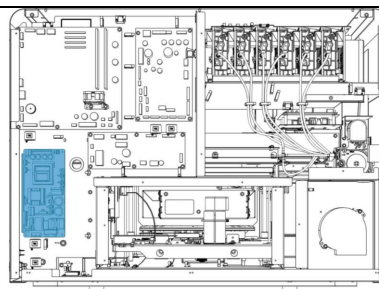
Typical Work Time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
スイッチング電源ボード交換 Switching power supply board replacement	20 min.

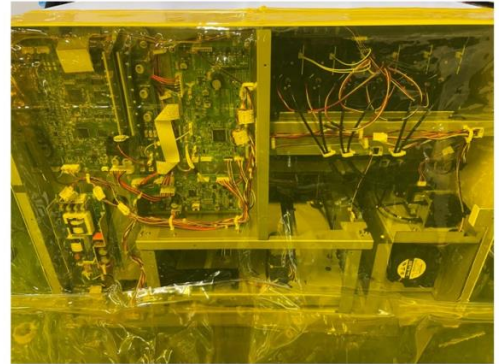
Step 3 / 4

Outline diagram



Step 4 / 4

When removing the cover, use a light-shielding sheet to prevent the ink from curing.



BD-8 Switching power supply board replacement

BD-8 Switching power supply board replacement Procedure

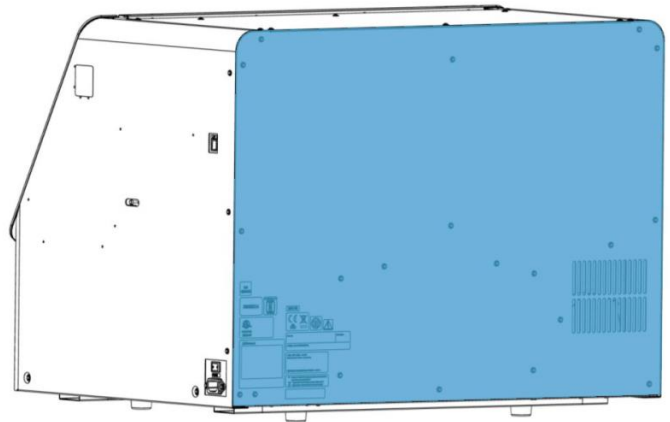
Step 1 / 7

Turn off the main power and unplug the power cable.



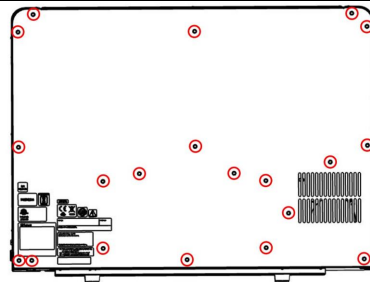
Step 2 / 7

Remove the back cover.



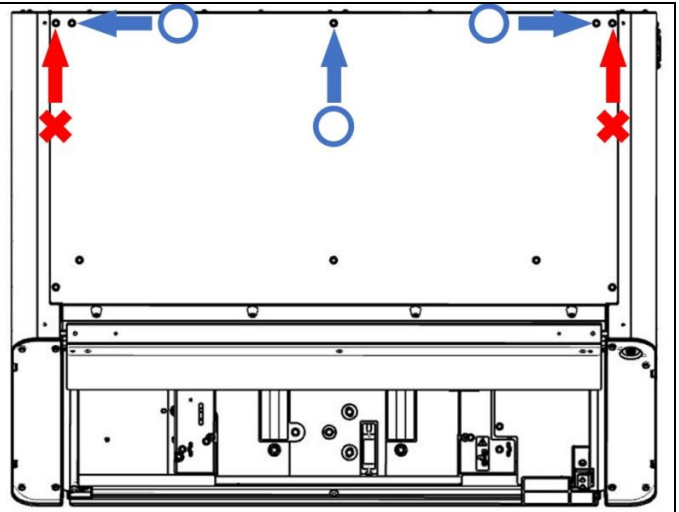
Step 3 / 7

Detail1: Remove the screws (20 locations) on the back side.



Step 4 / 7

Detail2: Remove the top 3 screws (not the outer two screws) on the back surface.



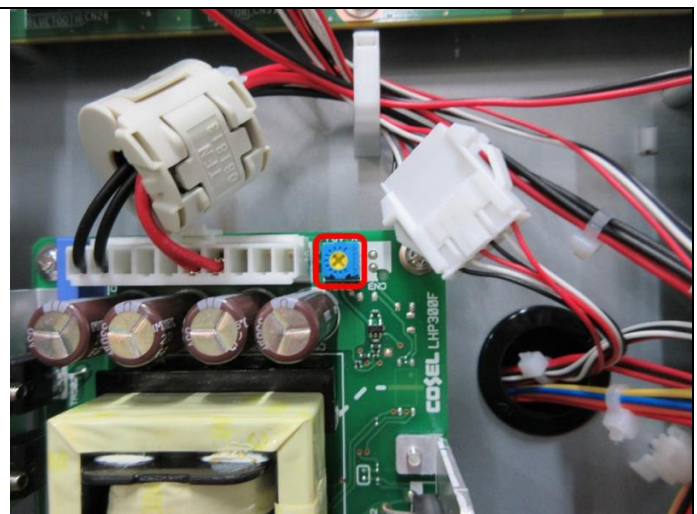
Step 5 / 7

Remove the connected connectors and screws and replace with a new switching power supply board. All connectors are used.



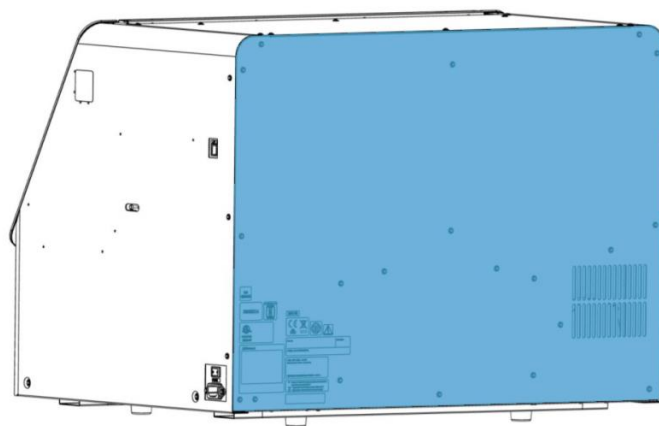
Step 6 / 7

Be careful not to touch the VR attached to the board. If you touch it, adjust the output power supply to $+41 \pm 0.1V$.



Step 7 / 7

Attach the cover.



BD-8 Power board replacement

BD-8 Power board replacement Information

Step 1 / 4

Necessary Tools

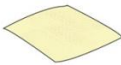
一般ツール/General Tool

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



特殊治具/Special Tools

1000005829
TOOL,VINYL YE UV RESISTANT ST-113



Step 2 / 4

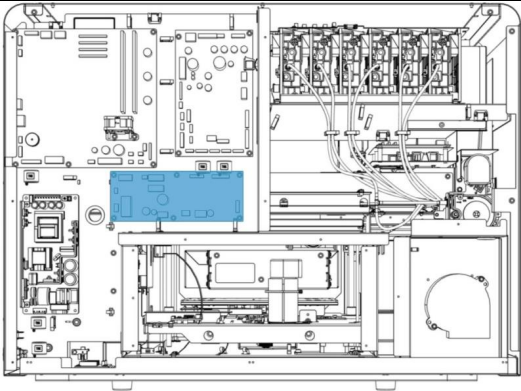
Typical Work Time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
パワーボード交換 Power board replacement	20 min.

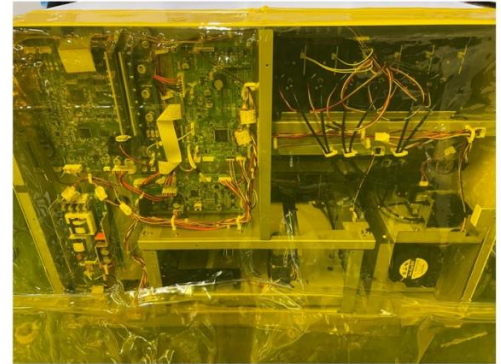
Step 3 / 4

Outline diagram



Step 4 / 4

When removing the cover, use a light-shielding sheet to prevent the ink from curing.



BD-8 Power board replacement

BD-8 Power board replacement Procedure

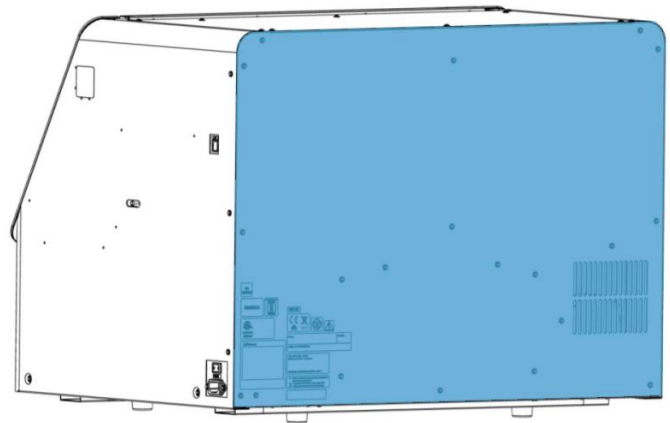
Step 1 / 7

Turn off the main power and unplug the power cable.



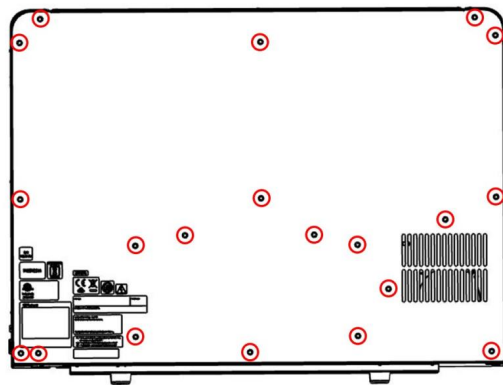
Step 2 / 7

Remove the back cover.



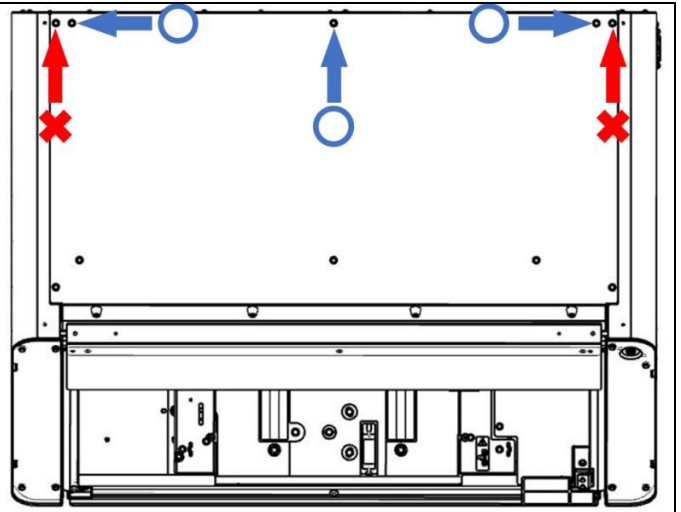
Step 3 / 7

Detail1: Remove the screws (20 locations) on the back side.



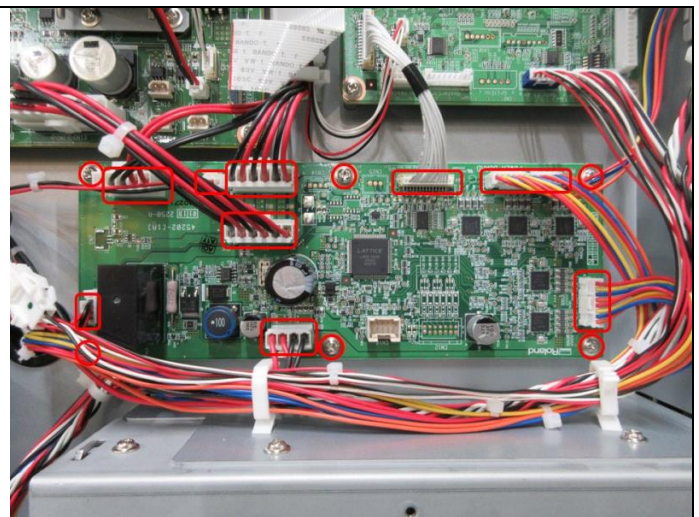
Step 4 / 7

Detail2: Remove the top 3 screws (not the outer two screws) on the back surface.



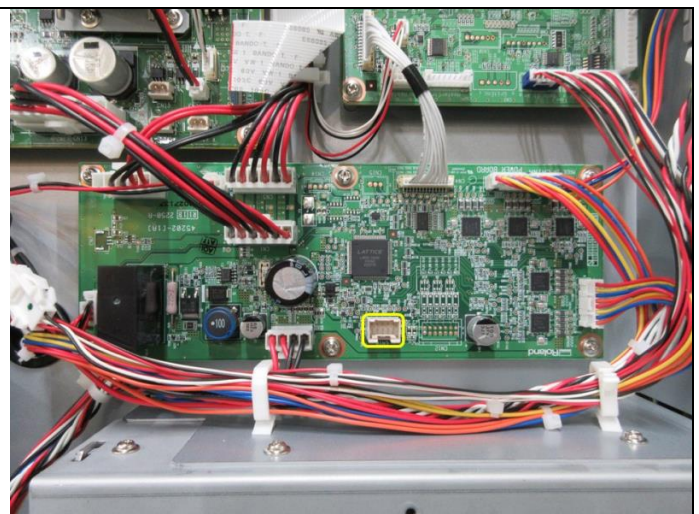
Step 5 / 7

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



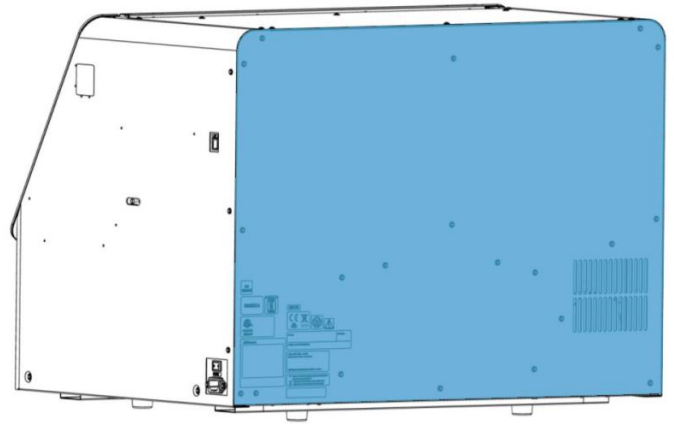
Step 6 / 7

Detail1: Note that there is no connector to be attached to the yellow part.



Step 7 / 7

Attach the cover.



BD-8 Scan motor replacement

BD-8 Scan motor 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 Hexagonal wrench 2.5mm	

Step 2 / 6

Special Tools

特殊治具/Special Tools

ST-056 TORQUE DRIVER N6	
六角 ビット 2.5mm BIT HEXAGONAL (2.5mm)	
6000004129 GREASE, FLOIL G-902 10ML_02	
1000005829 TOOL, VINYL YE UV RESISTANT ST-113	

Step 3 / 6

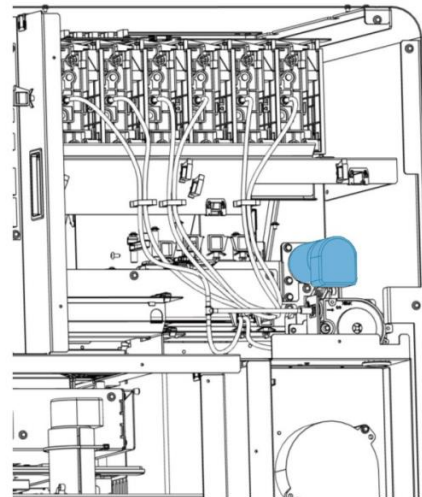
Typical Work Time

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	30 min.
モーター時間クリア Motor time clear	1 min.
エージング確認 Aging check	5 min.

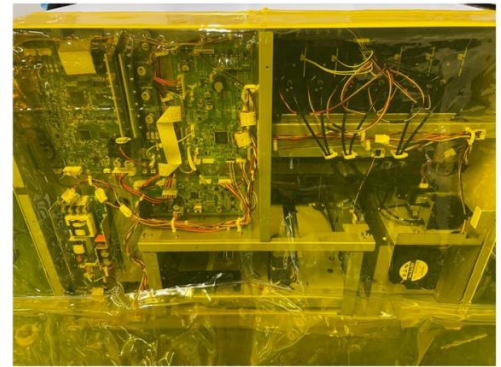
Step 4 / 6

Outline diagram



Step 5 / 6

When removing the cover, use a light-shielding sheet to prevent the ink from curing.



Step 6 / 6

Detail1: When removing the cover, use a light-shielding sheet to prevent the ink from curing.



BD-8 Scan motor replacement

BD-8 Scan motor replacement Procedure

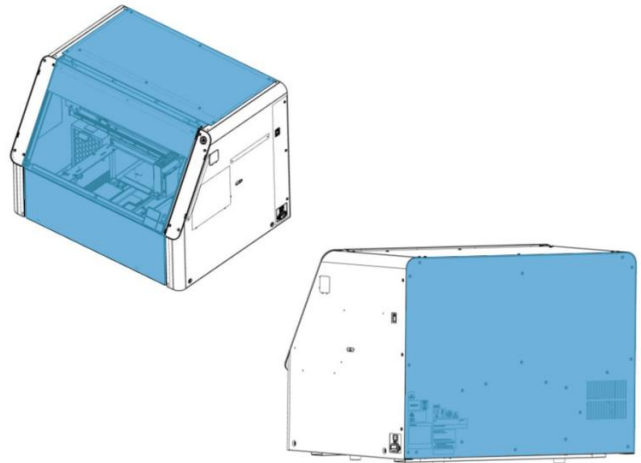
Step 1 / 30

Turn off the main power and unplug the power cable.



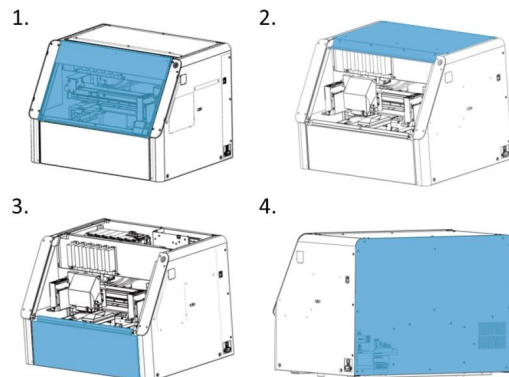
Step 2 / 30

Remove the covers.



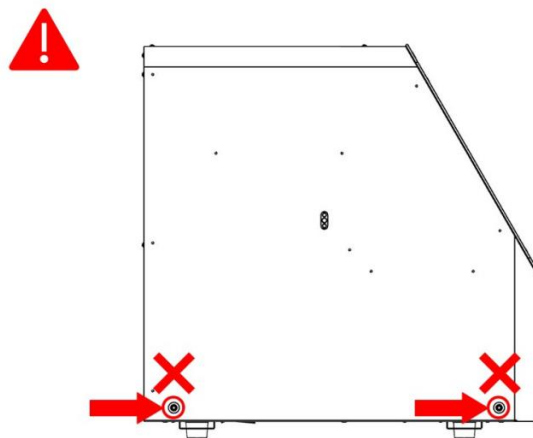
Step 3 / 30

Detail1: Remove the covers in the following order: 1. front cover 2. top cover 3. maintenance cover 4. back cover



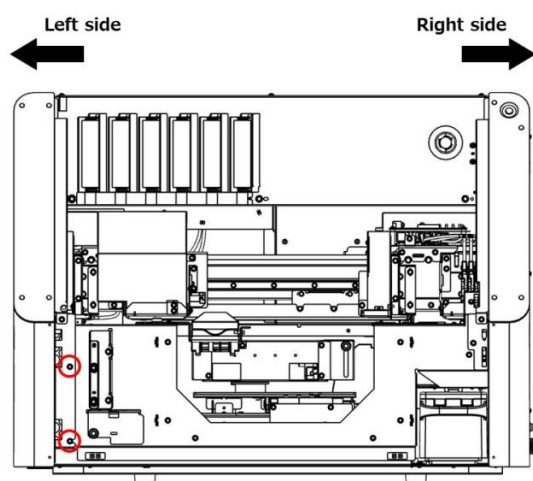
Step 4 / 30

Remove the screws secured to the left side cover of the machine to make room for work. Do not remove the two screws attached to the lower outer side of the cover.



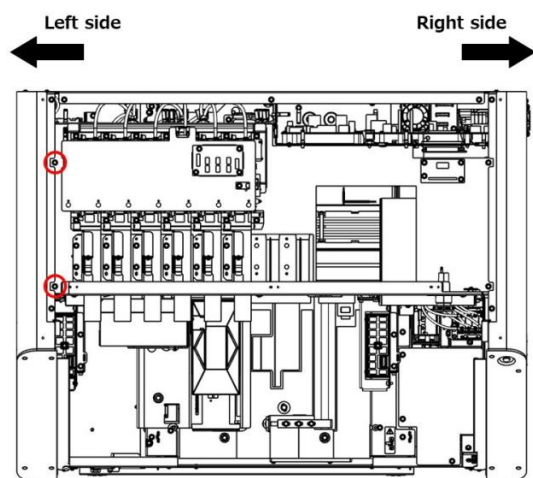
Step 5 / 30

Detail1: Screws to be removed



Step 6 / 30

Detail2: Screws to be removed



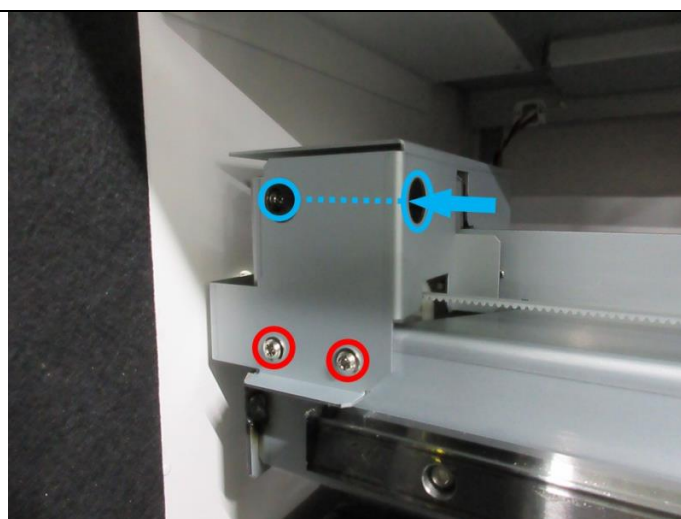
Step 7 / 30

Detail3: The cover can be extended from the rear of the machine to the right side. Be careful not to spread the cover excessively, as this will damage the screws securing it at the bottom of the cover.



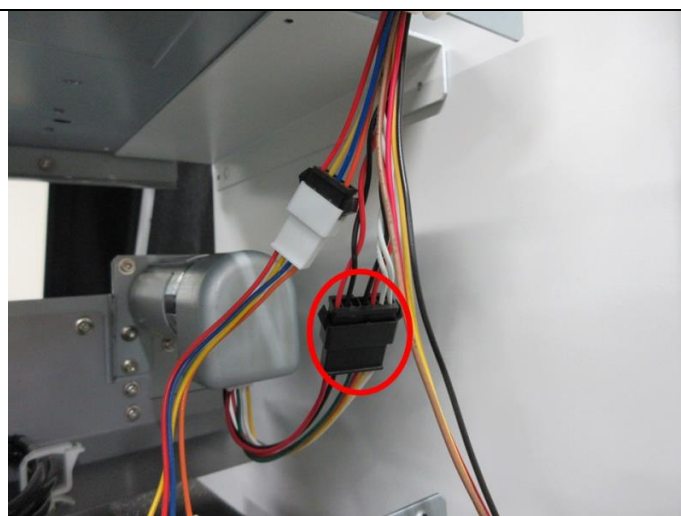
Step 8 / 30

Remove the scan motor gear cover.



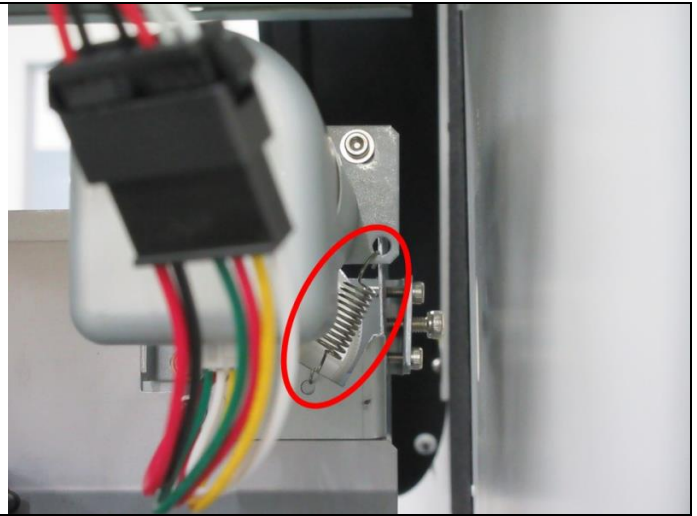
Step 9 / 30

Remove the scan motor connector.



Step 10 / 30

Remove the spring.



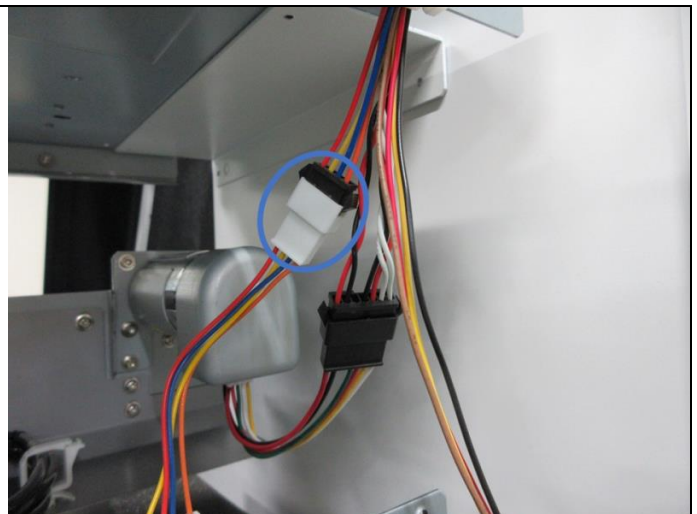
Step 11 / 30

Remove the four screws with a hex wrench.



Step 12 / 30

If the screws come in contact with the connector of the circulation pump when attaching or detaching the screws, remove the connector before proceeding.



Step 13 / 30

Remove the motor to be replaced from the plate with a hex wrench.



Step 14 / 30

Attach the new motor to the plate. Pay attention to the orientation in which the plate is attached.



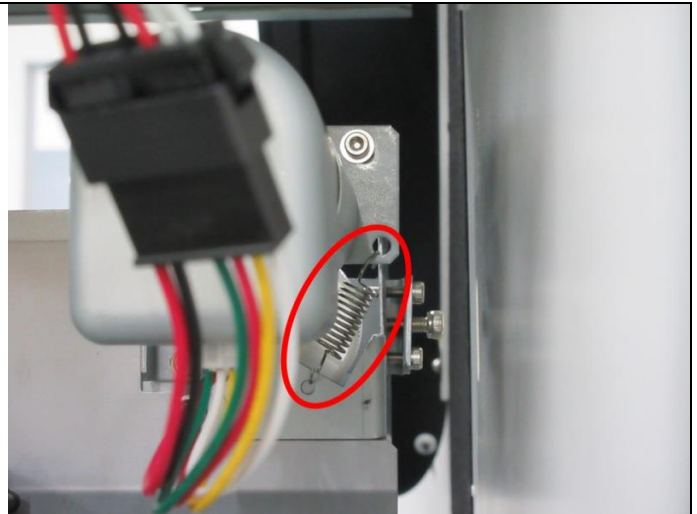
Step 15 / 30

Temporarily fasten the four screws with a hex wrench.



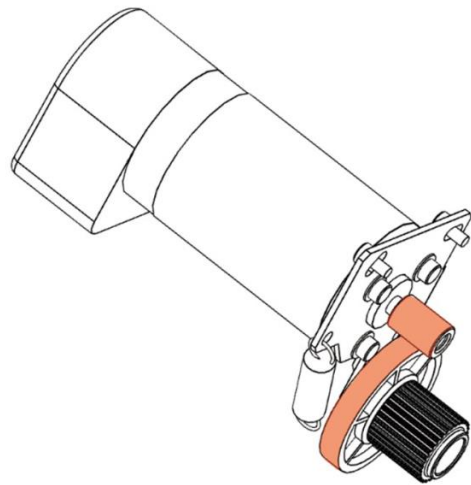
Step 16 / 30

Attach the spring.



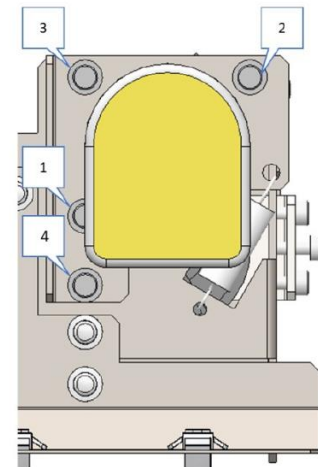
Step 17 / 30

Make sure the drive gear and motor gear are engaged and apply grease to them.



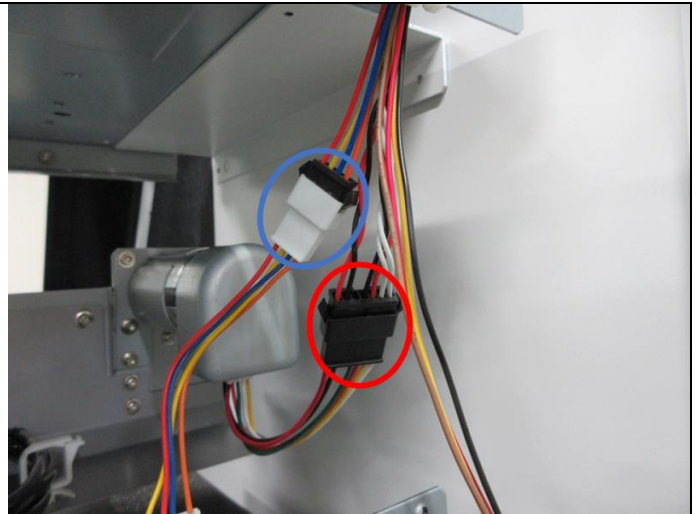
Step 18 / 30

Using a 0.8 N-m torque screwdriver, tighten the four screws in the order shown in the figure. After installation, confirm that the gear and pulley engage and rotate.



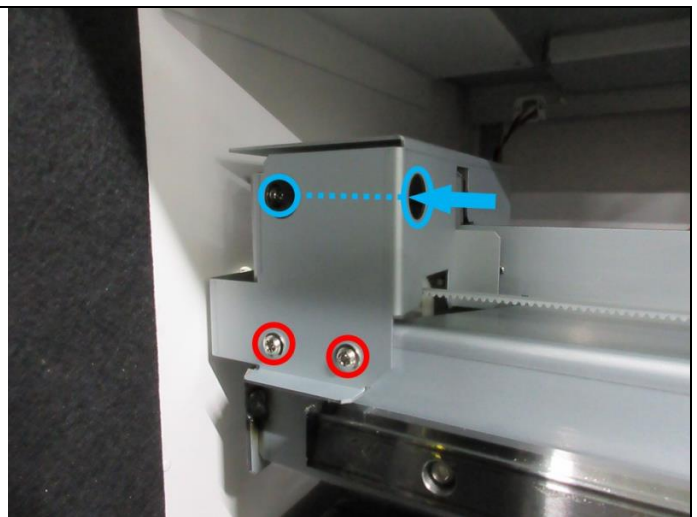
Step 19 / 30

Connect the scan motor and circulation pump connectors.



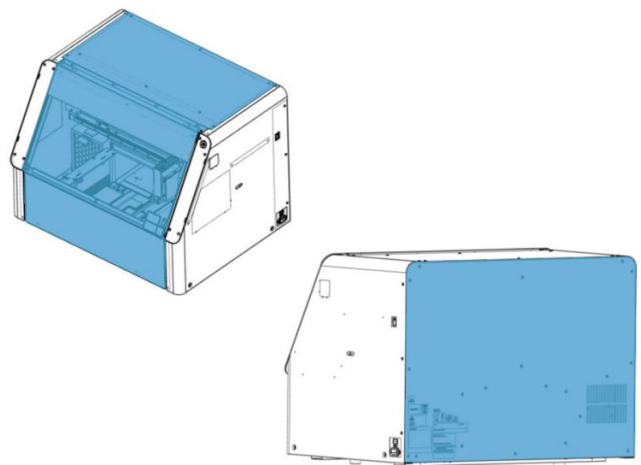
Step 20 / 30

Attach the scan motor gear cover.



Step 21 / 30

Attach the covers.



Step 22 / 30

Connect Peck2 to the machine and enter service mode.

Peck2 Ver. 2.9.0

titoh@rolanddg.co.jp Login Server Update

Printer Info	User Information	Certification Points																														
Model: Status: Not Connected Firm Ver: - Service Menu: Close	Certified: YES Expired after: 16 days Region Code:	<table><thead><tr><th>Category</th><th>Rank</th><th>Academy</th><th>Community</th><th>Feedback</th><th>For Rank Up</th></tr></thead><tbody><tr><td>Installer</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Color</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Dental</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>3D</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></tbody></table>	Category	Rank	Academy	Community	Feedback	For Rank Up	Installer	-	-	-	-	-	Color	-	-	-	-	-	Dental	-	-	-	-	-	3D	-	-	-	-	-
Category	Rank	Academy	Community	Feedback	For Rank Up																											
Installer	-	-	-	-	-																											
Color	-	-	-	-	-																											
Dental	-	-	-	-	-																											
3D	-	-	-	-	-																											

Machine Operation	Information	Site Links	Work Report
Connect Printer	Global Dashboard	RDG Connect Page	Completed #: 0 Incompleted #: 11
Check Report	Start SV Assist App	Imagi-net Product Page	Incompleted work report list
Update Firmware	Help	Check KB Article	VG3-640_KFD0004_20221202_105005.pec VG3-640_KFD0004_20220614_131742.pec SG3-540_KFD0003_20221202_105708.pec LEC2-640_KER0100_20220826_162207.pec BN2-20A_KFQ0102_20230607_110708.pec BN2-20A_KFQ0102_20230221_095142.pec BN2-20_KFQ0102_20230607_110635.pec BN2-20_KFQ0102_20230606_134245.pec BN2-20_KFQ0102_20230531_093724.pec BN2-20_KFQ0102_20230530_170810.pec
Put Parameter			

Step 23 / 30

Detail1: Start Peck2.



Step 24 / 30

Detail2: Click the [Login] button.

Peck2 Ver. 2.20

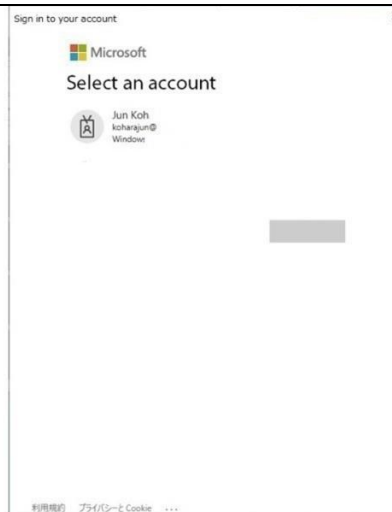
koharajun@ co.jp Login Server Update

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

Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0 Incompleted #: 2
Check Report	Check KB Article	Incompleted work report list
Update Firmware	Imagi-net Product Page	VG2-640_ZDV01_20210507_084958.pec VG2-640_ZDV01_20210506_160305.pec
Put Parameter	Help	

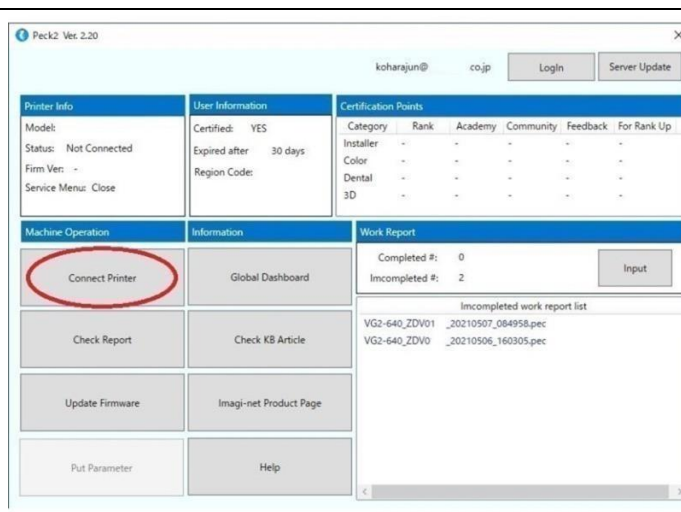
Step 25 / 30

Detail3: Login with your Imagi-net ID.



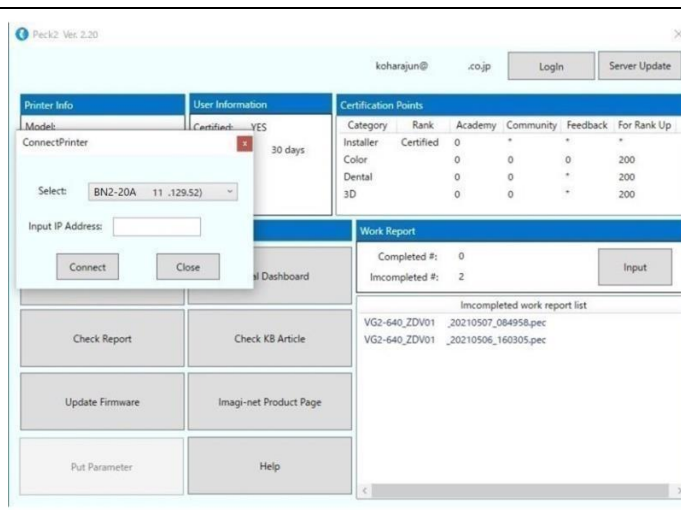
Step 26 / 30

Detail4: Click the [Connect Printer] button.



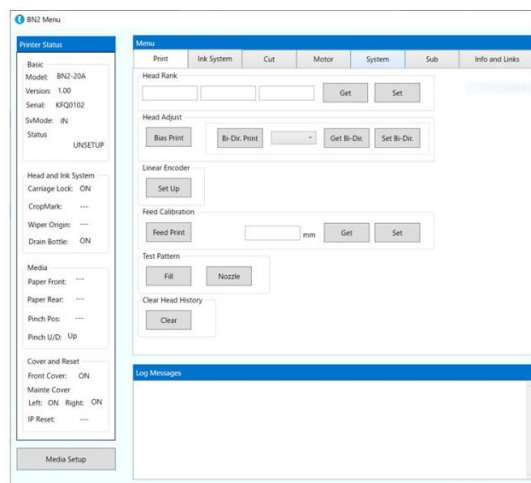
Step 27 / 30

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



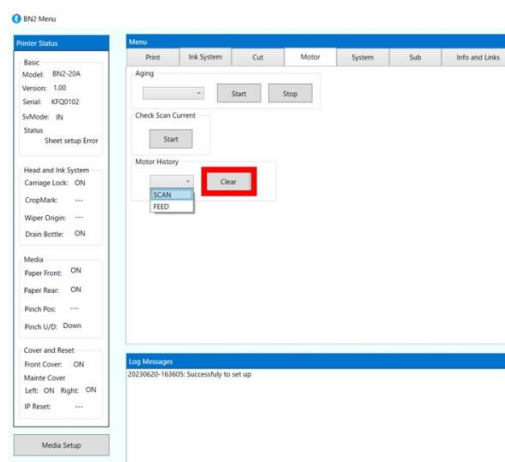
Step 28 / 30

Detail6: Confirm that the printer information is displayed in the [Printer Info] section of the Peck2 main screen and that the printer is connected to the machine.



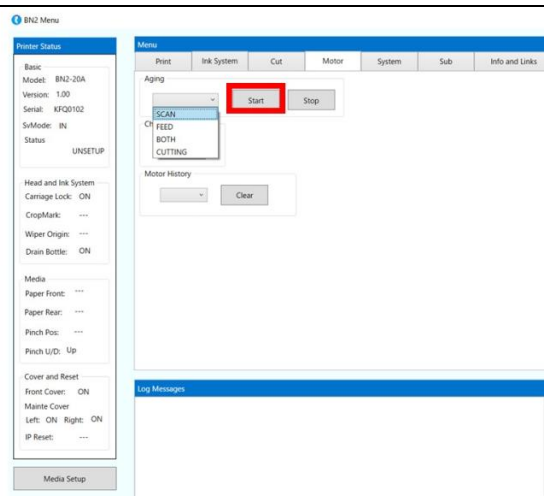
Step 29 / 30

Press [Motor] > [Motor History] > [Scan] > [Clear] to clear the motor history.



Step 30 / 30

Press [Motor] > [Asing] > [Scan] > [Start] to start Aging. After confirming that there are no unusual noises or abnormalities in operation, press [Stop] to stop aging.



BD-8 Feed motor replacement

BD-8 Feed motor 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



Step 2 / 5

Special Tools

特殊治具/Special Tools

6000004129
GREASE, FLOIL G-902 10ML_02



1000005829
TOOL, VINYL YE UV RESISTANT ST-113



Step 3 / 5

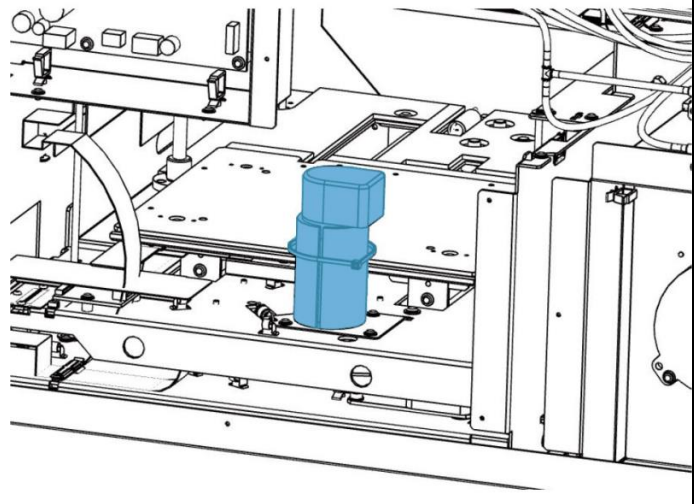
Typical work time

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	20 min.
モーター時間クリア Motor time clear	1 min.
エージング確認 Aging check	5 min.

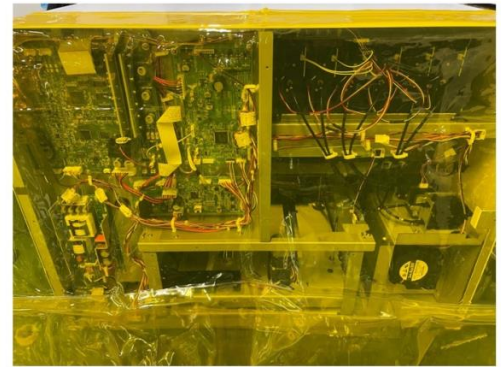
Step 4 / 5

Outline diagram



Step 5 / 5

When removing the cover, use a light-shielding sheet to prevent the ink from curing.



BD-8 Feed motor replacement

BD-8 Feed motor replacement Procedure

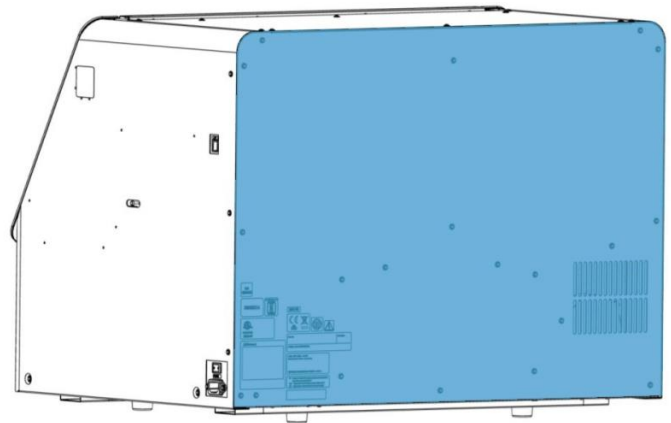
Step 1 / 20

Turn off the main power and unplug the power cable.



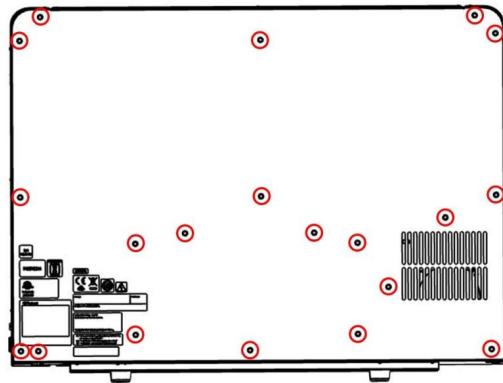
Step 2 / 20

Remove the back cover.



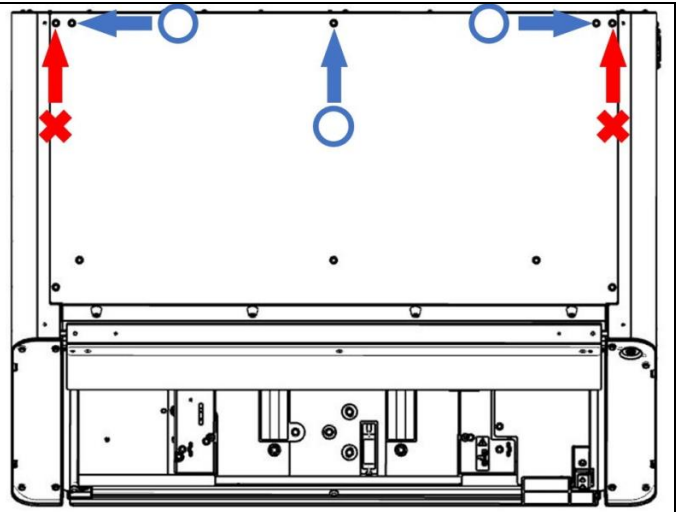
Step 3 / 20

Detail1: Remove the screws (20 places) on the back.



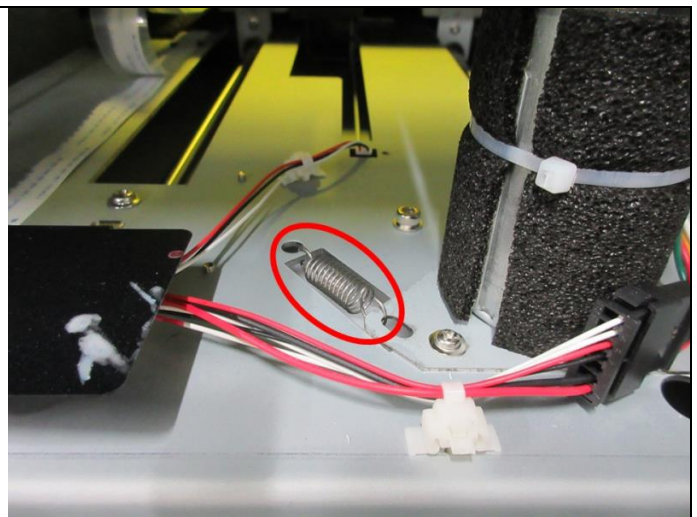
Step 4 / 20

Detail2: Remove the screws (3 places) on the rear inside of the top surface.



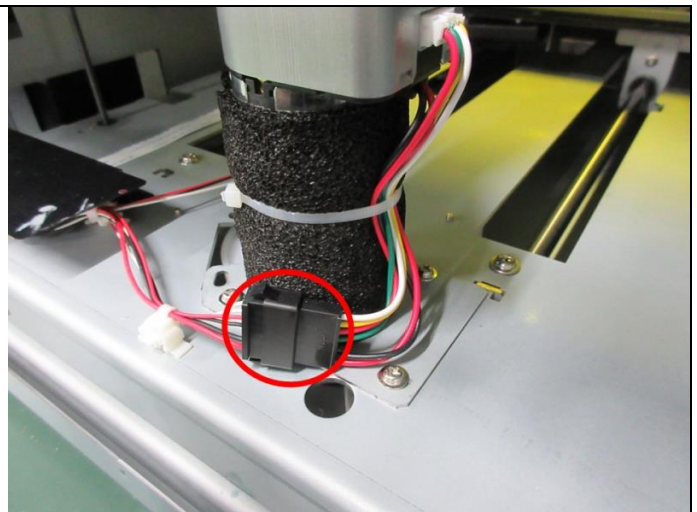
Step 5 / 20

Remove the spring.



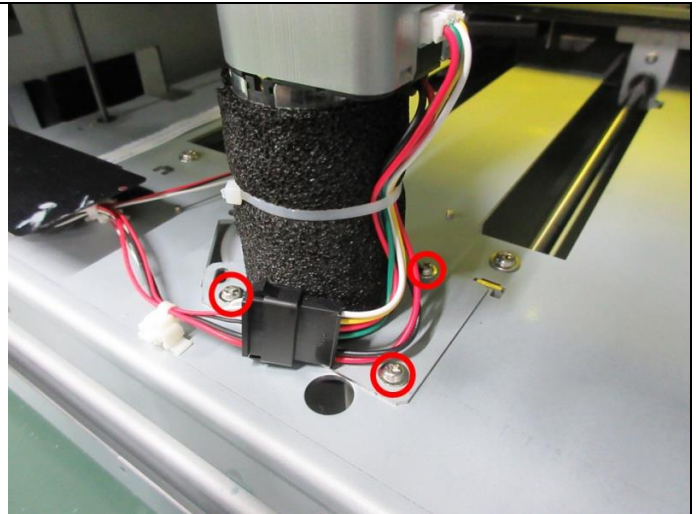
Step 6 / 20

Remove the connector.



Step 7 / 20

Remove the screws (3 places) and remove the motor together with the flange.



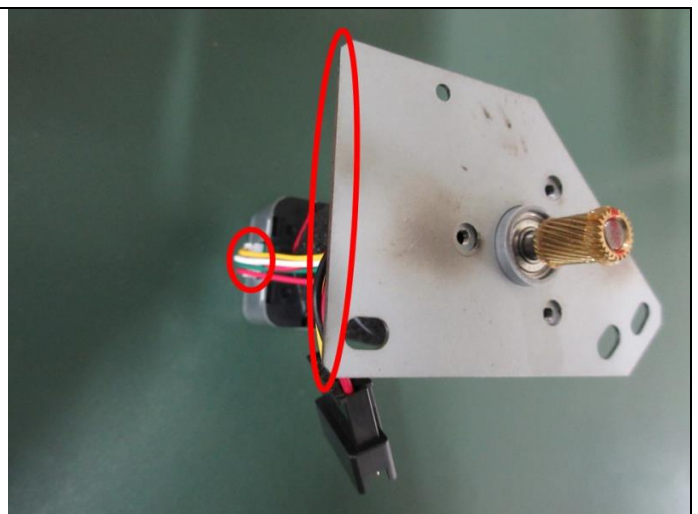
Step 8 / 20

Remove the screws (3 places) that secure the flange and attach the flange to the new motor.



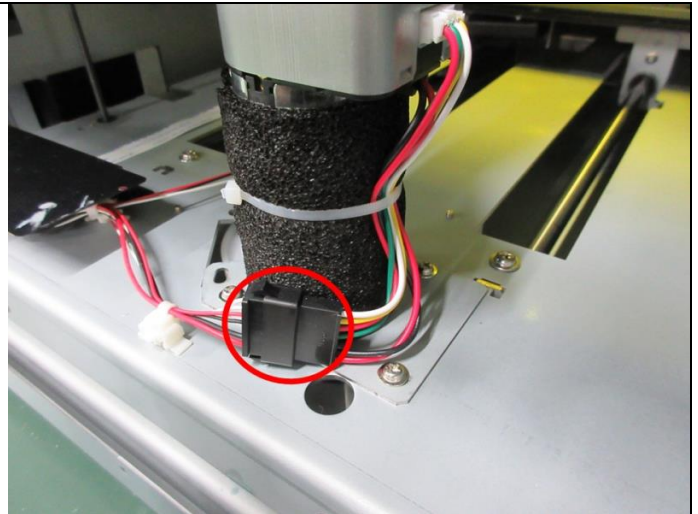
Step 9 / 20

Detail1: When attaching the flange, pay attention to the orientation.



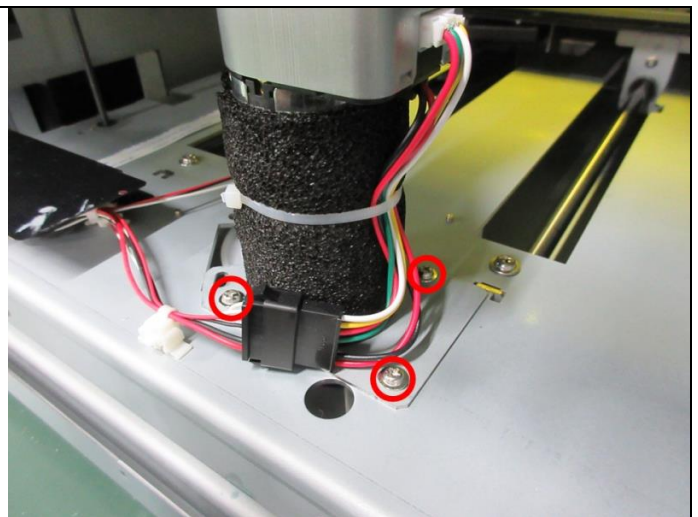
Step 10 / 20

Attach the connector.



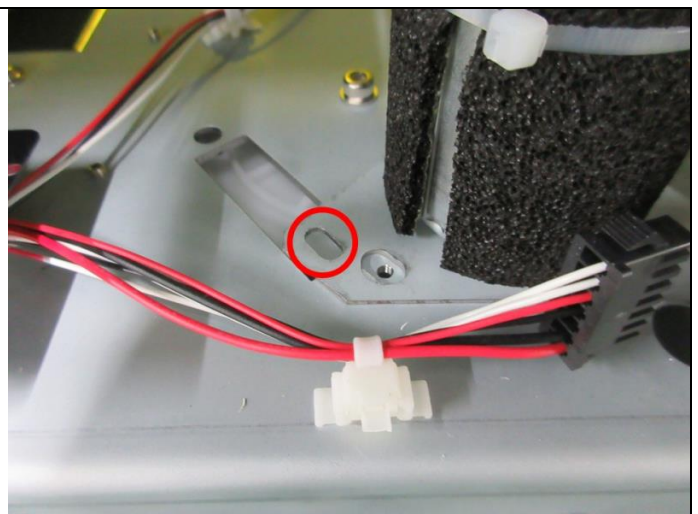
Step 11 / 20

Temporarily tighten the screws (3 places).



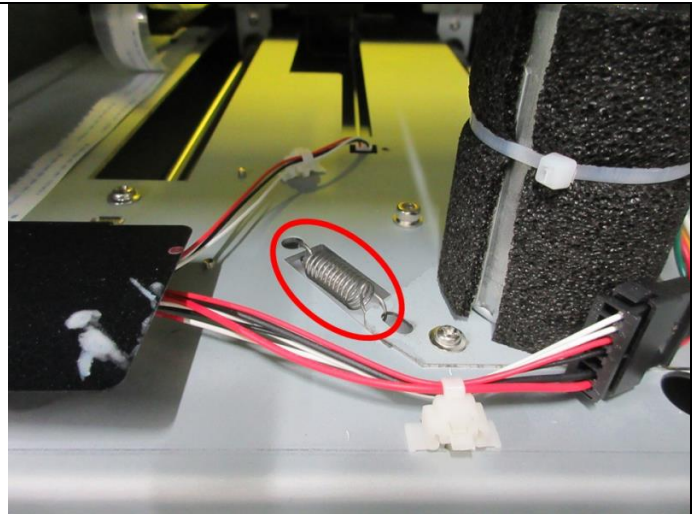
Step 12 / 20

Detail1: Pay attention to the orientation when attaching the motor.



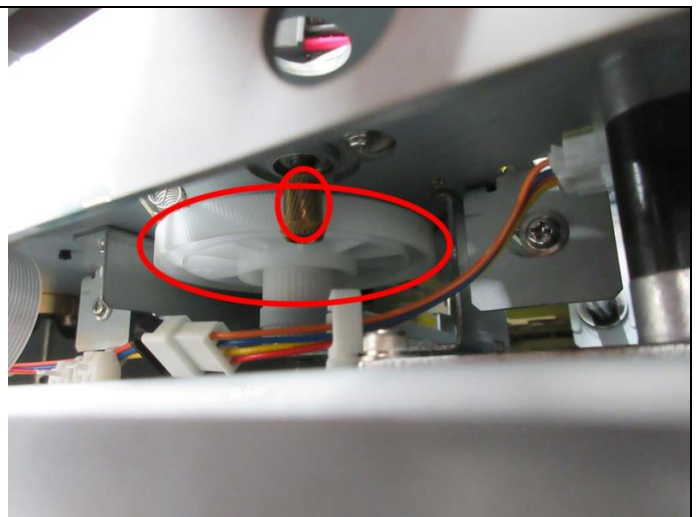
Step 13 / 20

Attach the spring. If the flange does not move when attaching the spring, loosen the temporarily tightened screws until the flange can move.



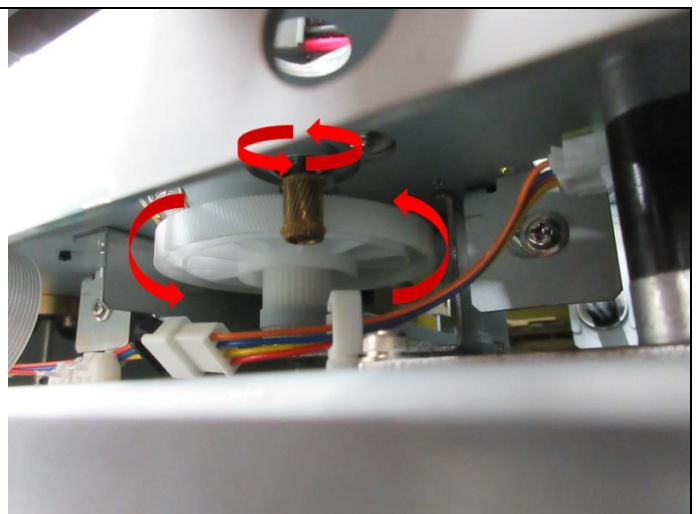
Step 14 / 20

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



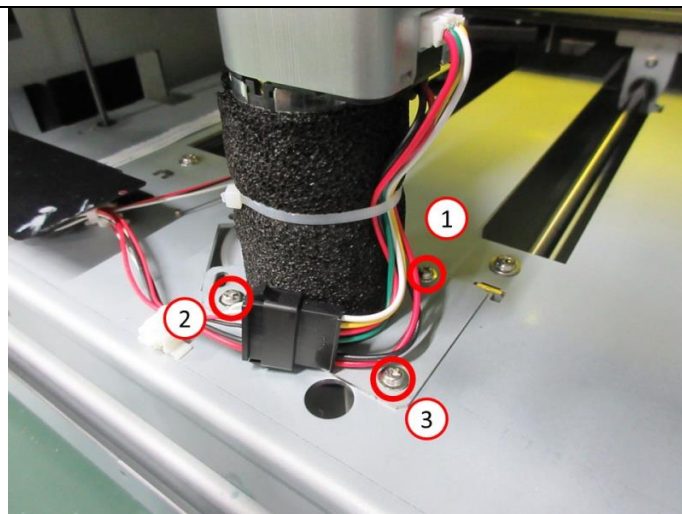
Step 15 / 20

Move the table manually and check that the table lifting gear and motor gear are engaged and the motor is rotating.



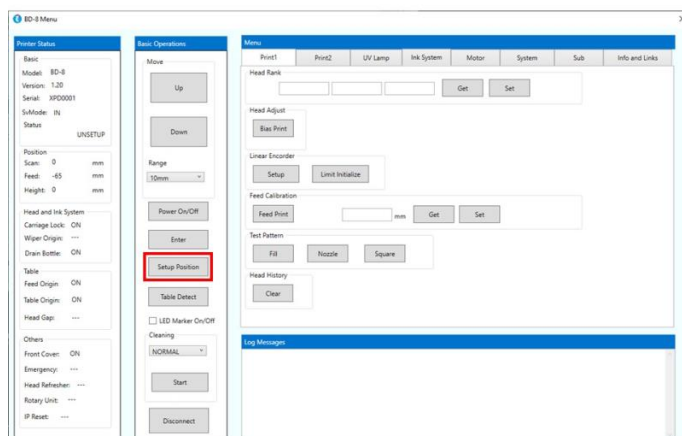
Step 16 / 20

Tighten the screws (3 places) in the order indicated in the work drawing.



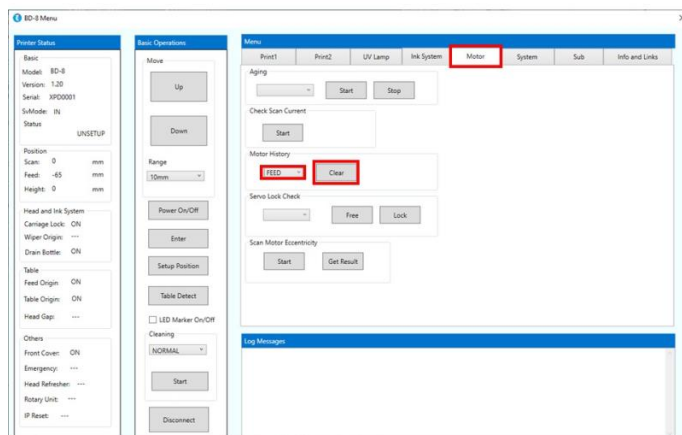
Step 17 / 20

Once Peck2 is connected, press [Setup Position] to perform setup operations. Make sure that the table and carriage have stopped moving.



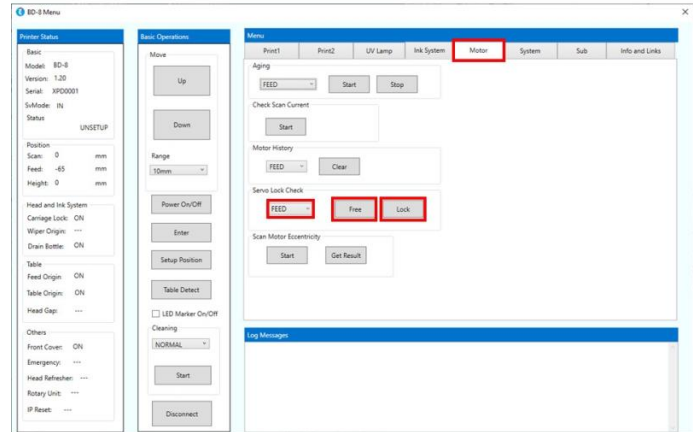
Step 18 / 20

Select [FEED] from the pull-down menu under [Motor History] in [Motor] tab, and press [Clear] to clear the motor history.



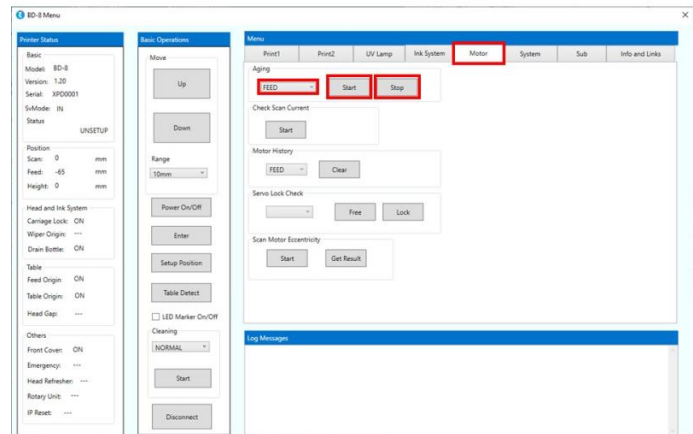
Step 19 / 20

Select [FEED] from the pull-down menu under [Servo Lock Check] in [Motor] tab. Then press [Free] to make sure the table moves manually, and press [Lock] to make sure it will not move.



Step 20 / 20

Select [FEED] from the [Aging] pull-down menu in [Motor] tab and press [Start] to perform aging. After confirming the movement for about 3 times, press [Stop] to finish aging.



BD-8 Linear encoder board replacement

BD-8 Linear encoder board replacement

Information

Step 1 / 5

Next Work 58 BD-8 Linear encoder
setup



Step 2 / 5

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	
六角レンチ 2.5mm Hexagonal wrench 2.5mm	

Step 3 / 5

Special Tools

特殊治具/Special Tool

1000005829 TOOL,VINYL YE UV RESISTANT ST-113	
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Step 4 / 5

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	30 min.

Step 5 / 5

When removing the cover, use a light-shielding sheet to prevent the ink from curing.

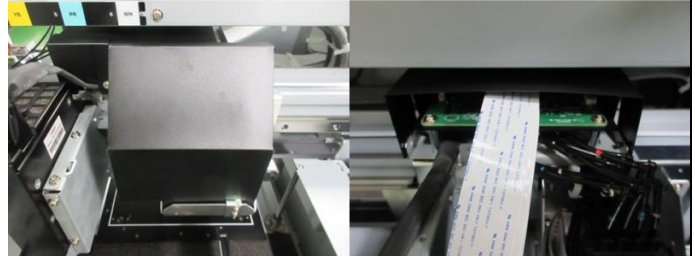


BD-8 Linear encoder board replacement

BD-8 Linear encoder board replacement Procedure

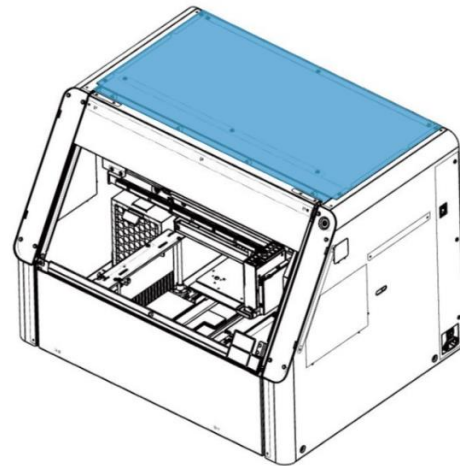
Step 1 / 25

Move the print head carriage to the center of the machine, remove the print head carriage cover and print carriage board cover.



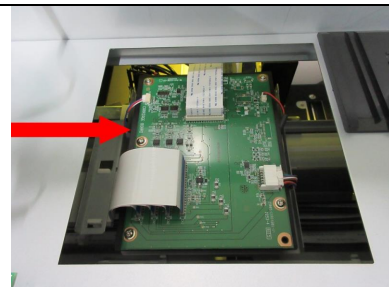
Step 2 / 25

Remove the top cover.



Step 3 / 25

Move the print carriage until the print carriage board is visible through the square hole next to the ink cartridges at

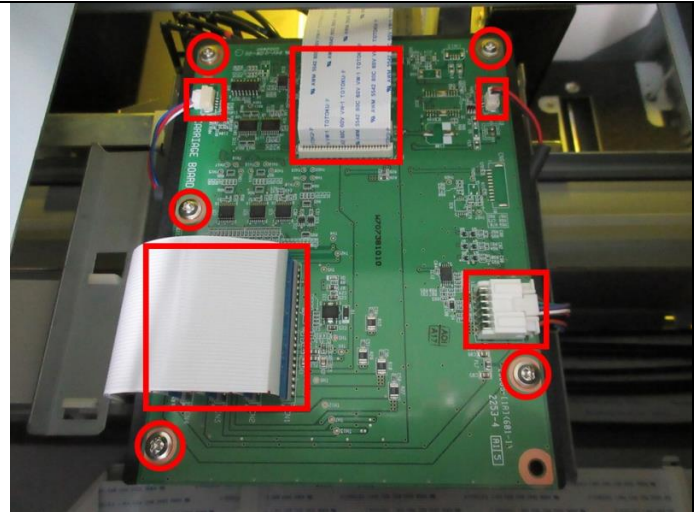


the top of the carriage.



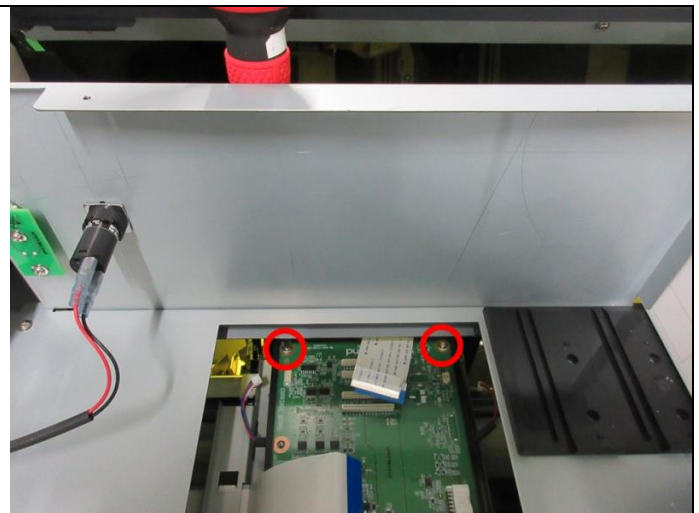
Step 4 / 25

Disconnect the connector and ribbon cable connected to the print carriage board, and then remove the print carriage board. *All connectors are used.



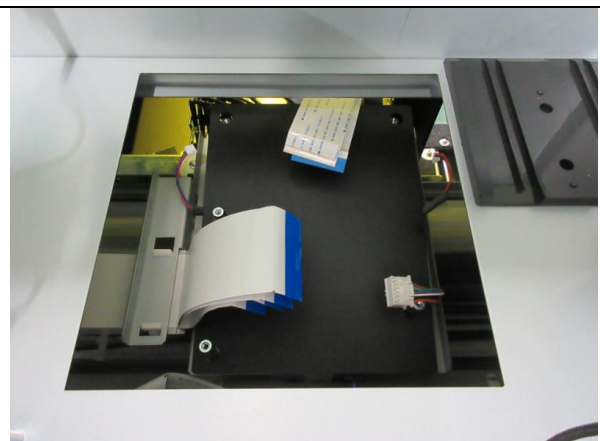
Step 5 / 25

Access the front screws (2 locations) from between the metal plate on the upper part of the print head carriage and front cover. Access from square holes is not possible.



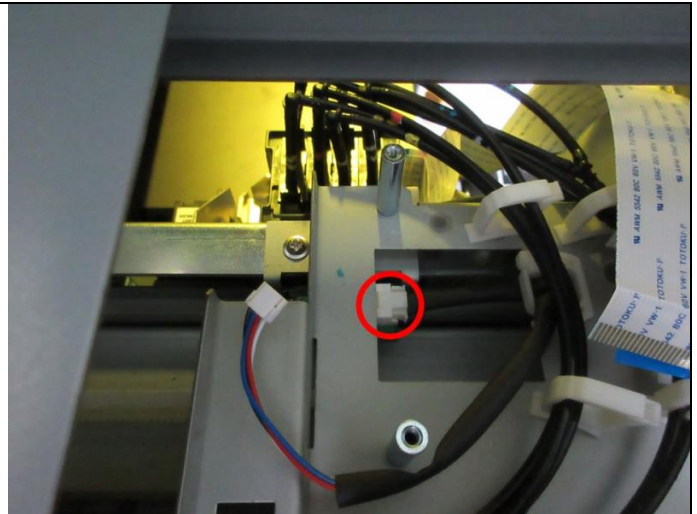
Step 6 / 25

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



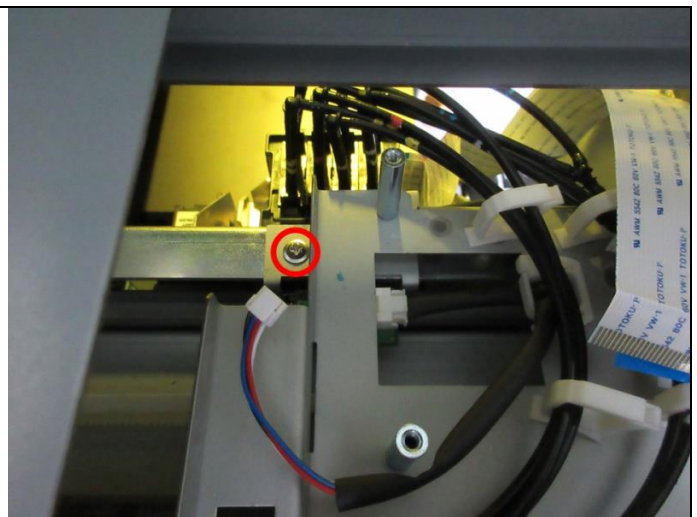
Step 7 / 25

Remove the connector.



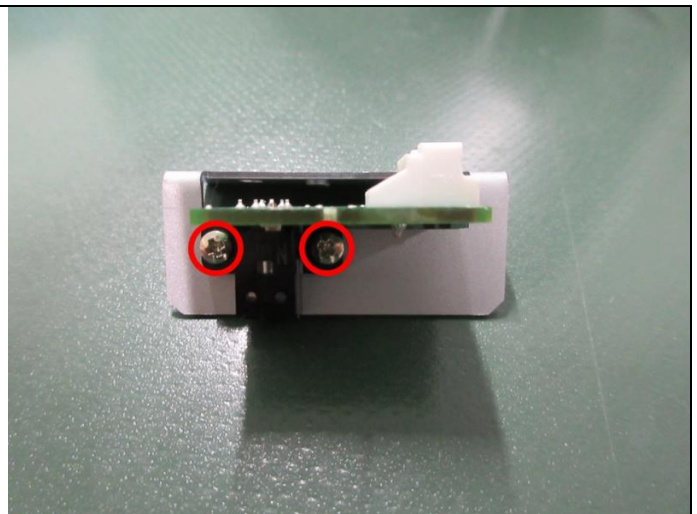
Step 8 / 25

Remove the screw (1 location) that secures the encoder board, and remove the linear encoder board and stay together.



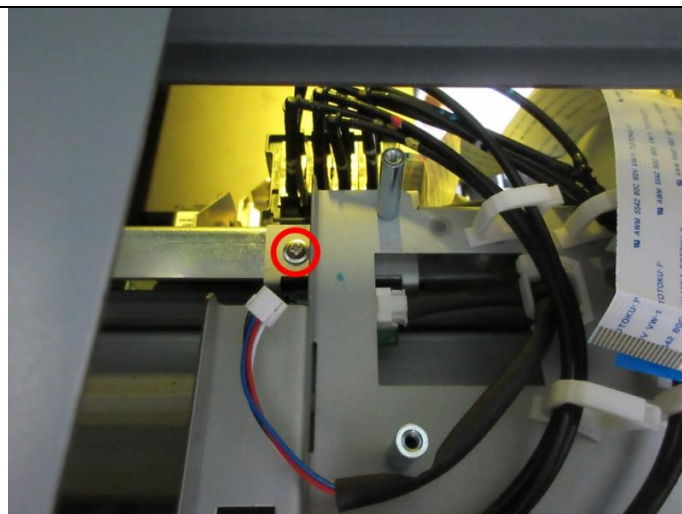
Step 9 / 25

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



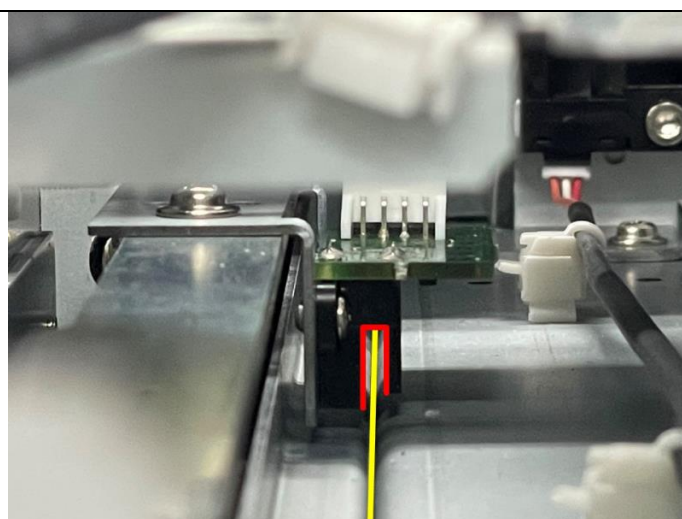
Step 10 / 25

Install the encoder board.



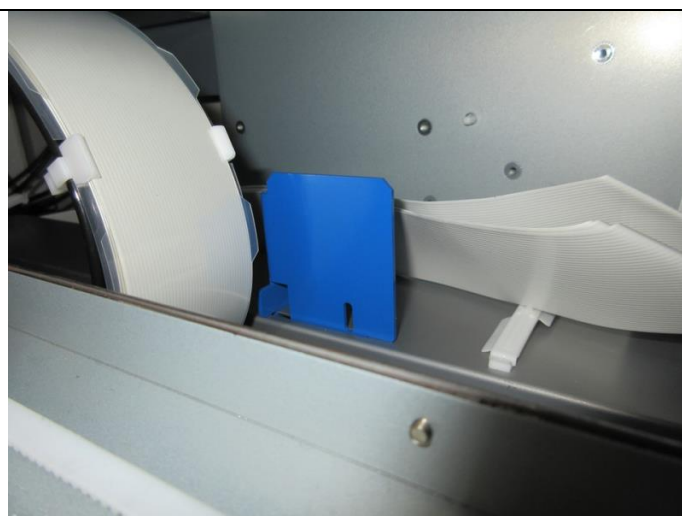
Step 11 / 25

Connect the connector and install the linear encoder board together with the stay. Make sure that the encoder scale and encoder sensor are not touching and that the encoder scale is in between the slit of the encoder sensor.



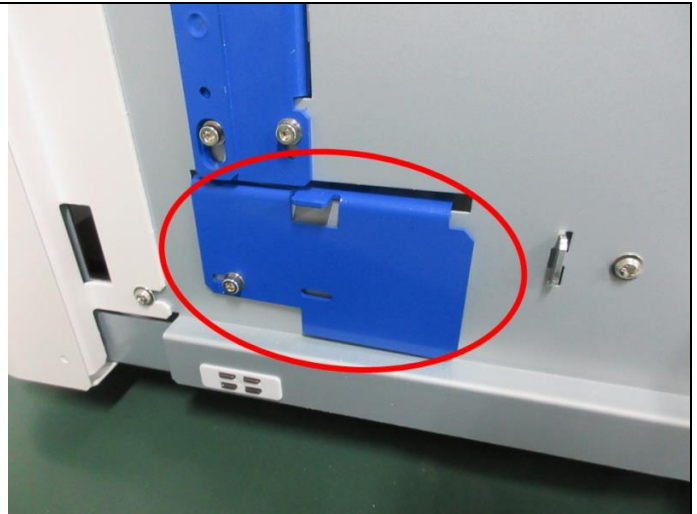
Step 12 / 25

To prevent the print carriage from being damaged by pushed into the bottom of the machine when connecting the ribbon cable, attach the fixing plate attached to the front of the machine to the rail. *There are no screws to fix it.



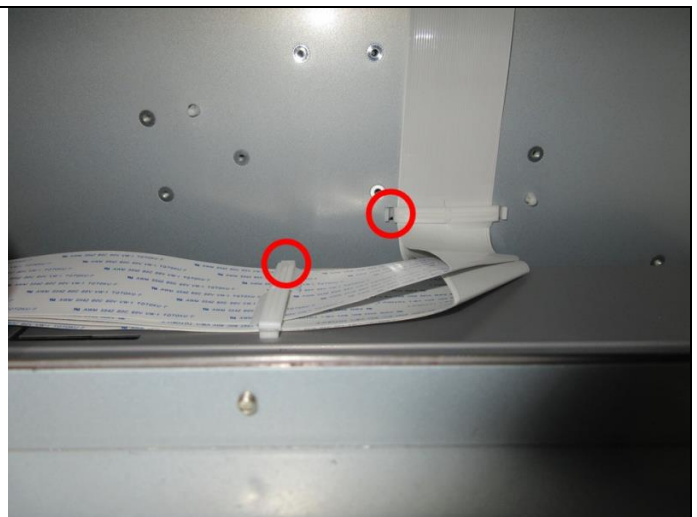
Step 13 / 25

Detail1: Remove the fixing plate.



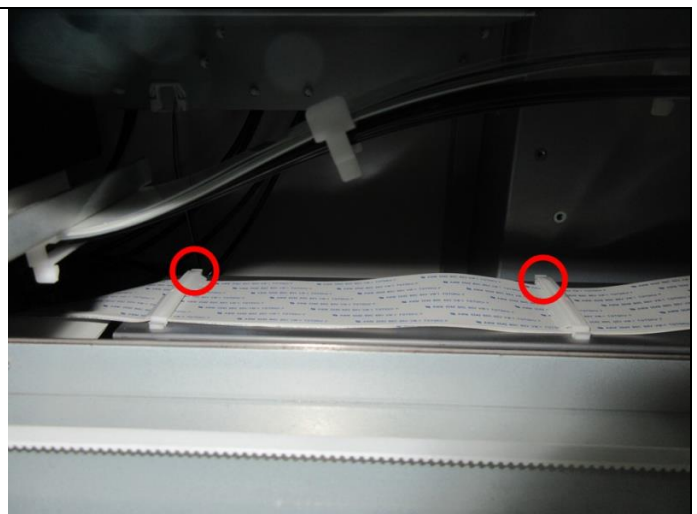
Step 14 / 25

Detail2: Remove one side of the cable tie that bundles the ribbon cables.



Step 15 / 25

Detail3: Remove one side of the cable tie that bundles the ribbon cables.



Step 16 / 25

Detail4: Move the ribbon cable to the back of the sheet metal. *Be careful not to bend the ribbon cable.



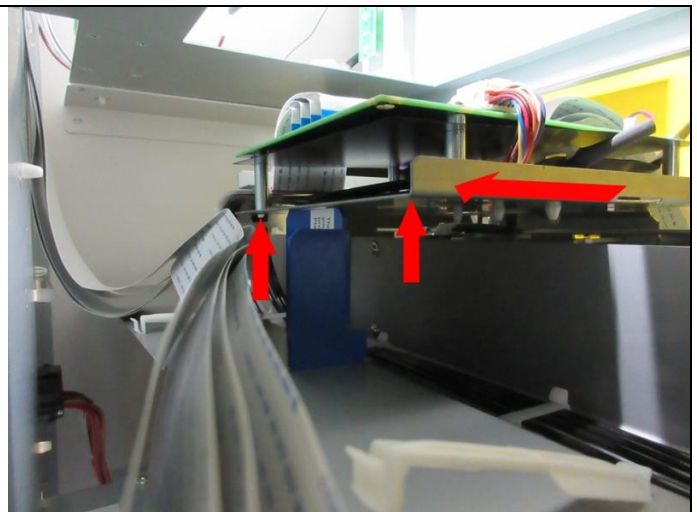
Step 17 / 25

Detail5: Insert the fixing sheet metal into the L-shaped hole on the rail.



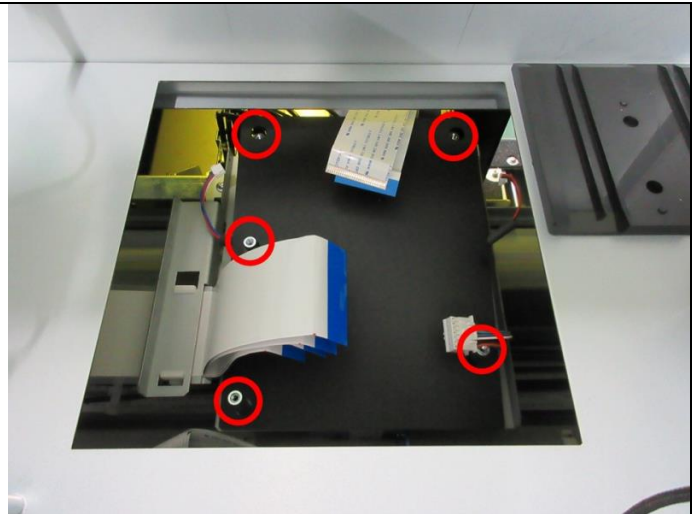
Step 18 / 25

Move the print carriage onto the attached fixing plate. At this time, the bottom of the print carriage may come into contact with the fixing plate, so lightly lift the bottom of the print carriage and move it.



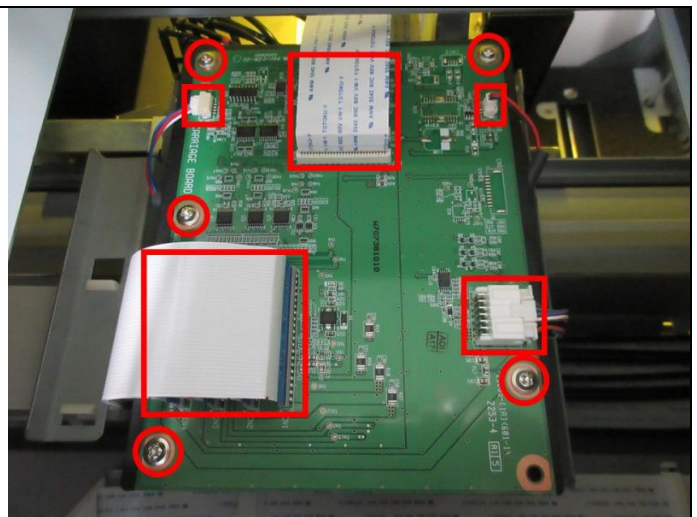
Step 19 / 25

Attach the black cover to the columns that fix the screws.



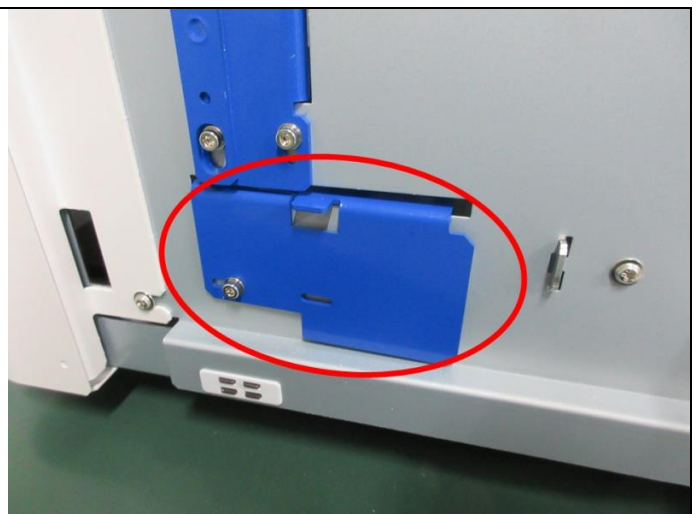
Step 20 / 25

Install the print carriage board with the fixing plate supporting the bottom of the print carriage, and connect all connectors and cables.



Step 21 / 25

Move the print carriage and remove the fixing plate and reattach it to the front of the machine.



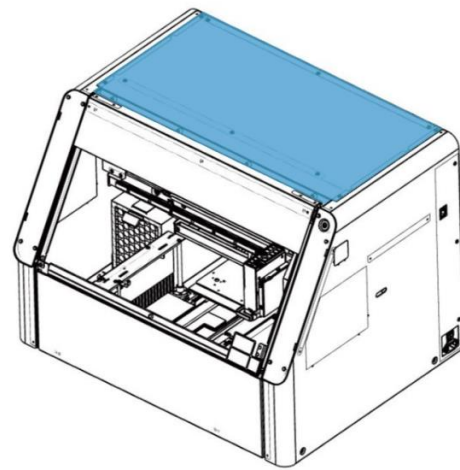
Step 22 / 25

Reattach the ribbon cables that were moved to the back of the machine and secure them with cable ties.



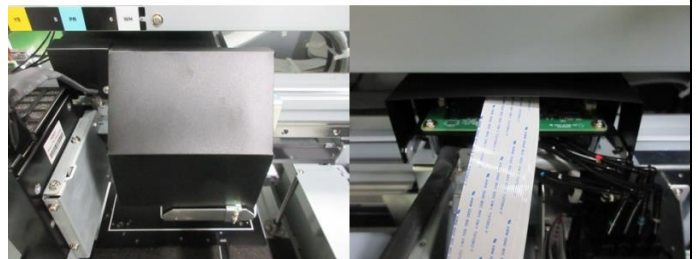
Step 23 / 25

Attach the top cover.



Step 24 / 25

Install the print carriage cover and print carriage board cover.



Step 25 / 25

Perform linear encoder setup.



次の手順

リニアエンコーダー位置設定

Next Step

Linear encoder setup

BD-8 Encoder scale replacement

BD-8 Encoder scale replacement

Information

Step 1 / 5

Next Work 58 BD-8 Linear encoder
setup



Step 2 / 5

Necessary tools

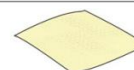
一般ツール/General Tool

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



特殊治具/Special Tool

1000005829
TOOL,VINYL YE UV RESISTANT ST-113



Step 3 / 5

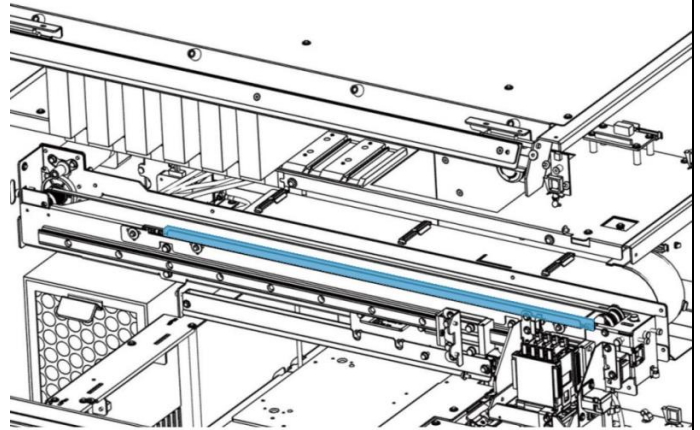
Typical work time

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.
リアエンコーダ位置設定 Linear encoder setup	5 min.

Step 4 / 5

Outline diagram



Step 5 / 5

When removing the cover, use a light-shielding sheet to prevent the ink from curing.

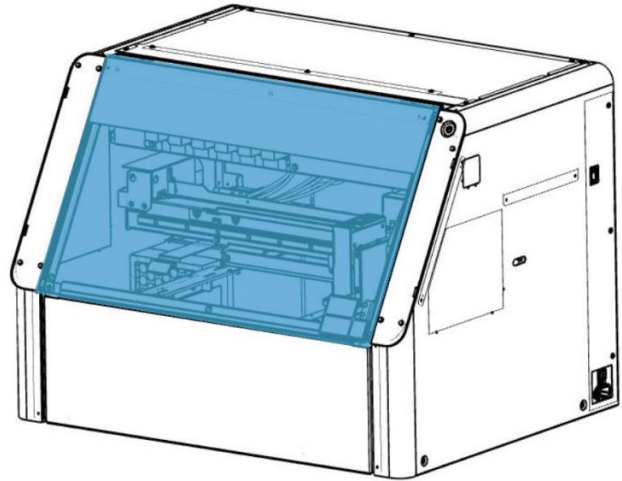


BD-8 Encoder scale replacement

BD-8 Encoder scale replacement Procedure

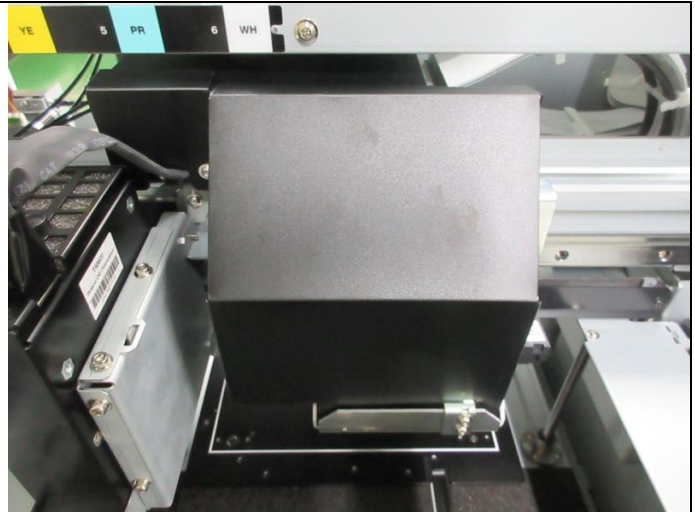
Step 1 / 16

Open the front cover.



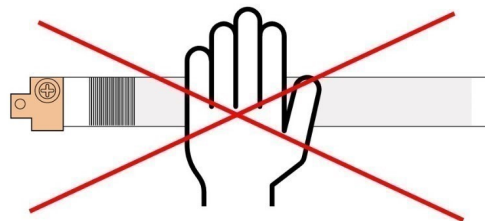
Step 2 / 16

Move the print carriage onto the table.



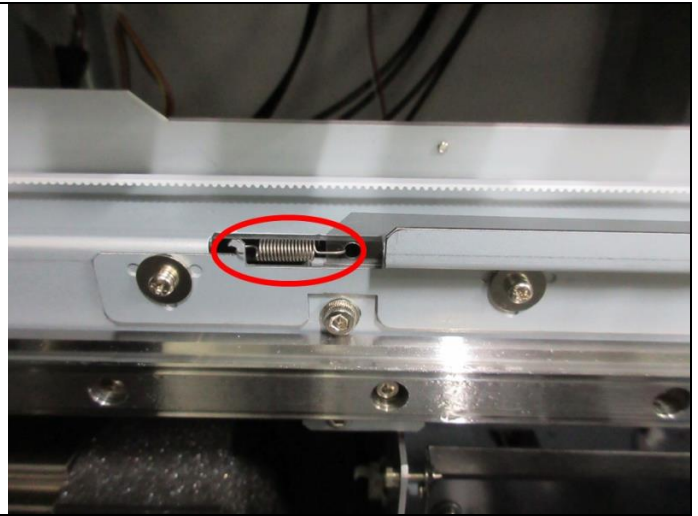
Step 3 / 16

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



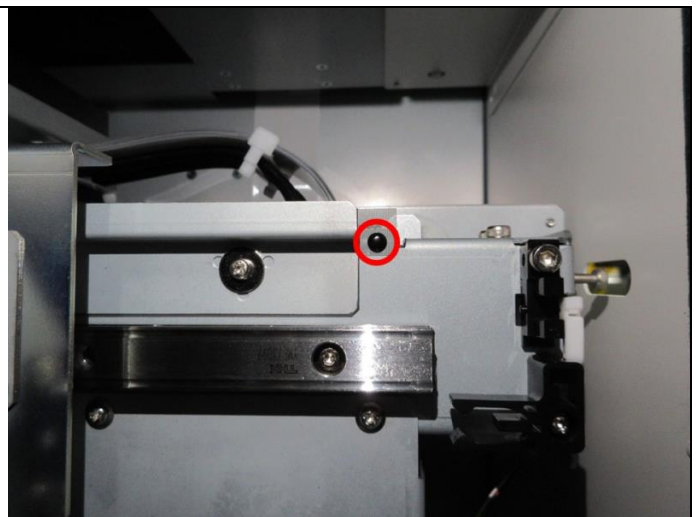
Step 4 / 16

Remove the left spring.



Step 5 / 16

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



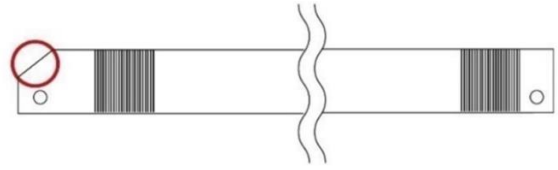
Step 6 / 16

Detail1: We recommend that you spread a dry cloth or something similar during work to prevent the rivets from falling.



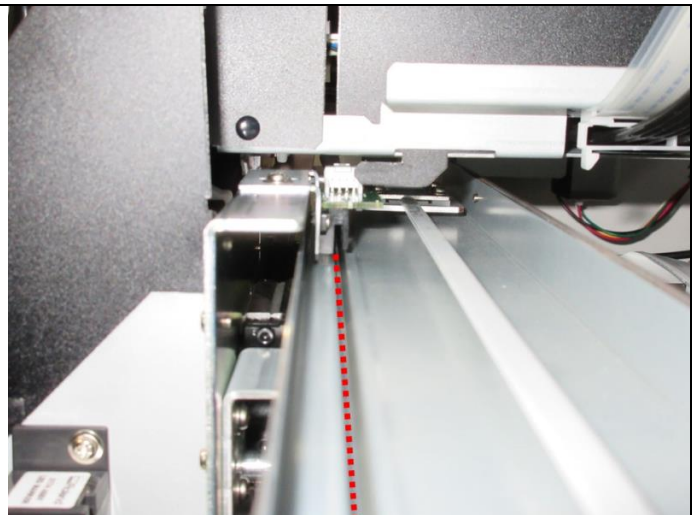
Step 7 / 16

Attach the encoder scale to the machine with the notched side facing left.



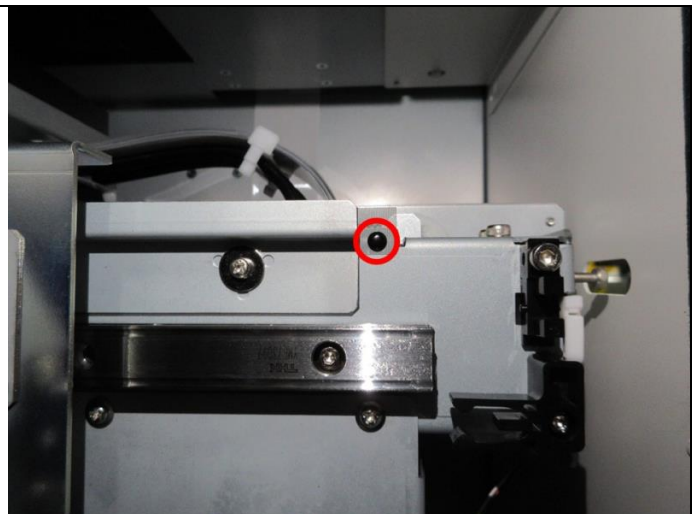
Step 8 / 16

Detail1: Insert the encoder scale into the gap between the encoder plate and guide rail.



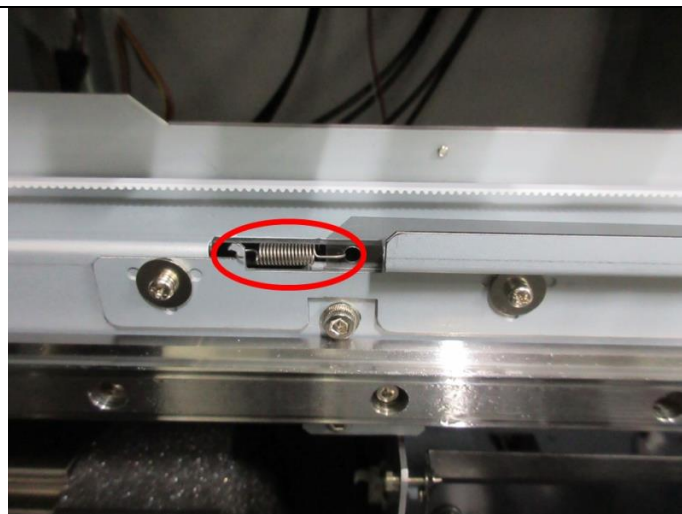
Step 9 / 16

Detail2: Fix the right side of the encoder with the rivet.



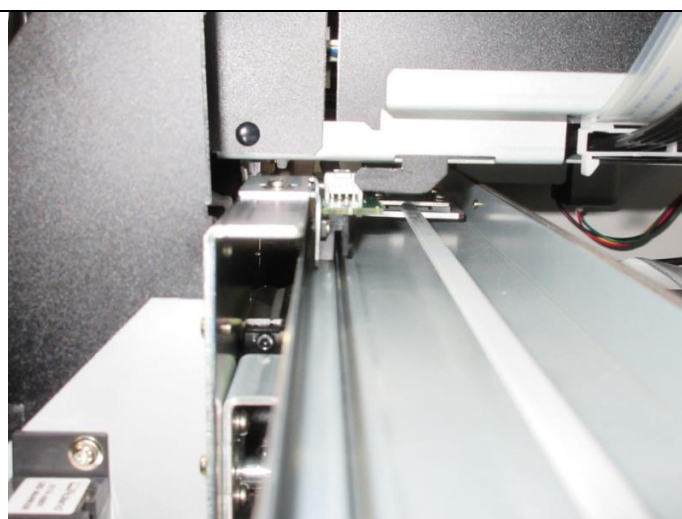
Step 10 / 16

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



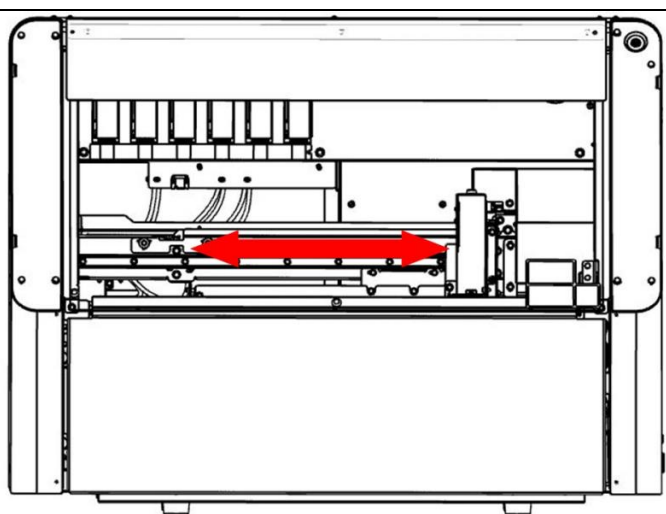
Step 11 / 16

Visually check that there is no lifting of the encoder scale.



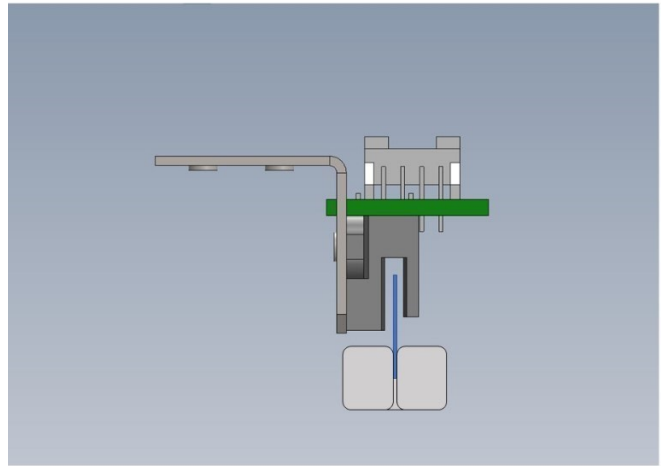
Step 12 / 16

Move the print carriage across the entire area and make sure that the encoder scale and encoder sensor are not touching and that the encoder sensor is over the encoder scale.



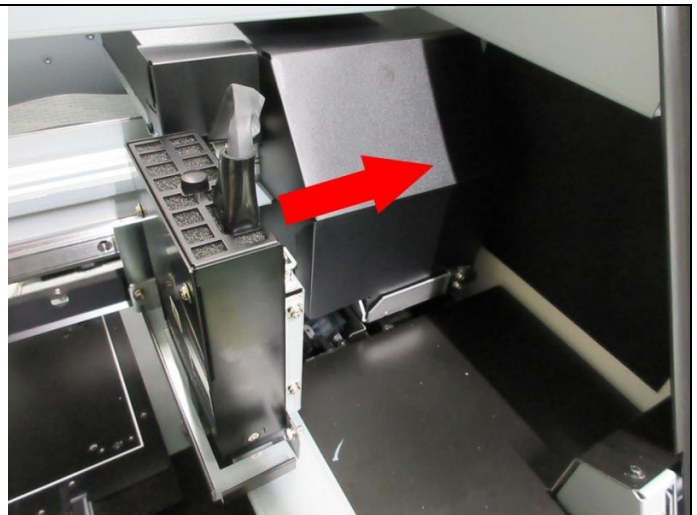
Step 13 / 16

Detail1: Make sure the encoder is not touching the sensor.



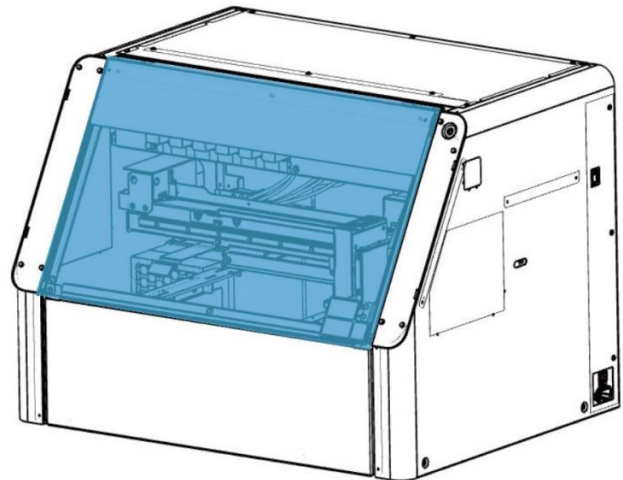
Step 14 / 16

Lock the print head carriage.



Step 15 / 16

Close the front cover.



Step 16 / 16

Next step [Linear encoder set up]



次の手順

リニアエンコーダー位置設定

Next Step

Linear encoder setup

BD-8 Carriage belt replacement

BD-8 Carriage belt replacement Information

Step 1 / 6

Next Work 53 BD-8 Flushing position adjustment 56 BD-8 Belt tension adjustment 57
BD-8 Belt position adjustment 58 BD-8 Linear encoder setup

Step 2 / 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/3.0mm Hexagonal wrench 2.5mm/3.0mm	
テープ Tape	

Step 3 / 6

Special Tools

特殊治具/Special Tools

6000004129 GREASE, FLOIL G-902 10ML_02	
1000005829 TOOL, VINYL YE UV RESISTANT ST-113	

Step 4 / 6

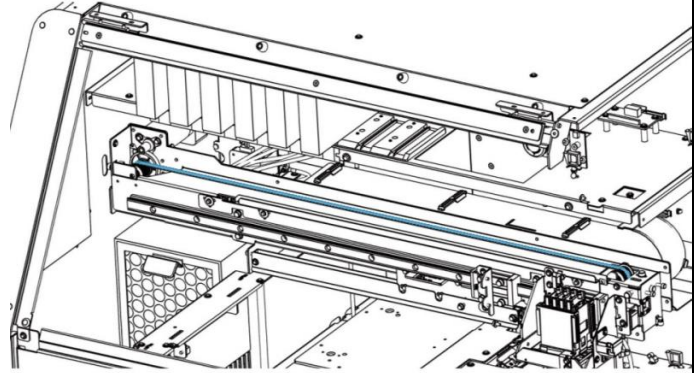
Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
2500014108 Carriage belt replacement	45 min.

Step 5 / 6

Outline diagram



Step 6 / 6

When removing the cover, use a light-shielding sheet to prevent the ink from curing.

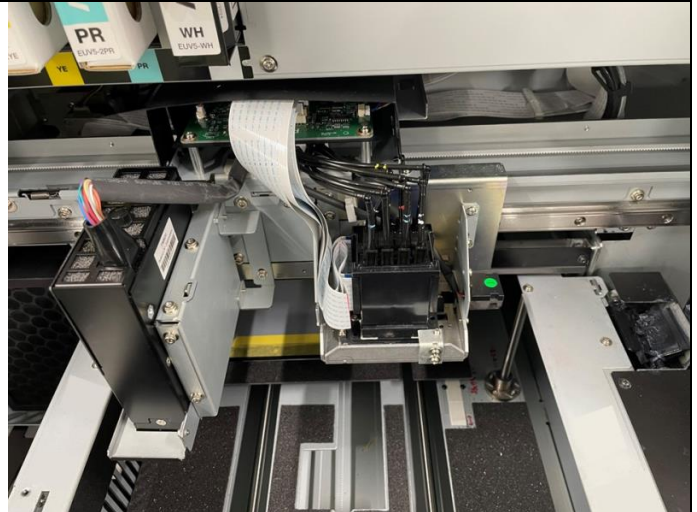


BD-8 Carriage belt replacement

BD-8 Carriage belt replacement Procedure

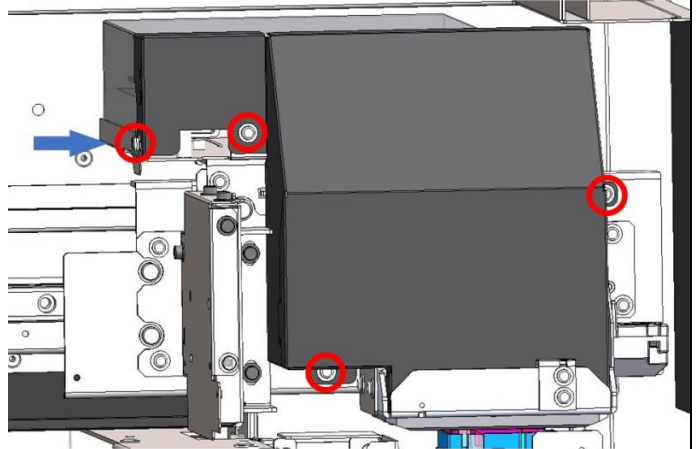
Step 1 / 17

Open the front cover, move the print head carriage to the center of the printer, and then remove the carriage cover.



Step 2 / 17

Detail1: Screws to remove



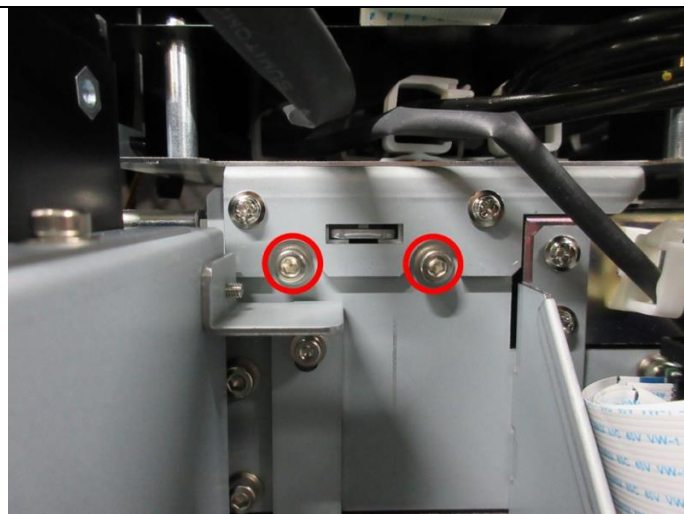
Step 3 / 17

Detail2: We recommend laying down a cloth or something similar to prevent the screws from falling.



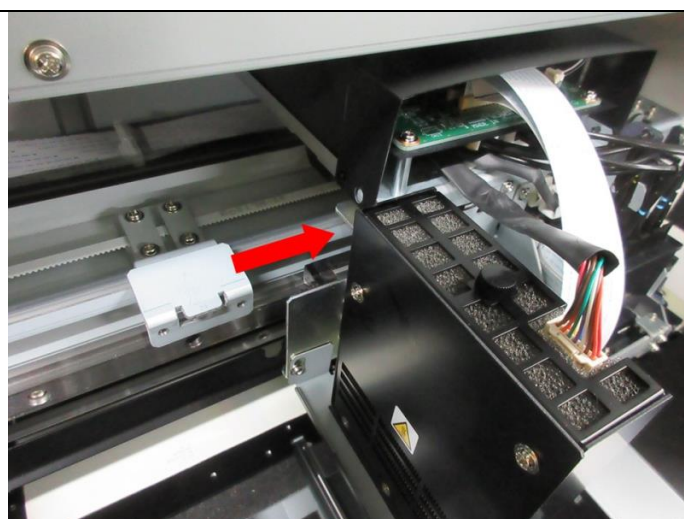
Step 4 / 17

Remove the screws (2 places) and separate the carriage belt and print head carriage.



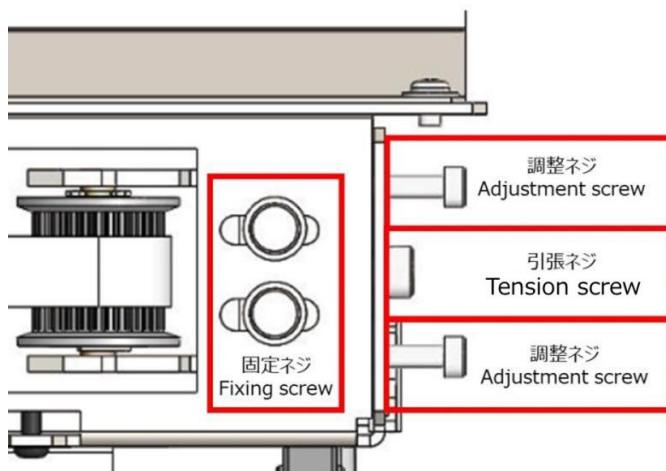
Step 5 / 17

Move the print head carriage so that you can see the carriage belt fixing part.



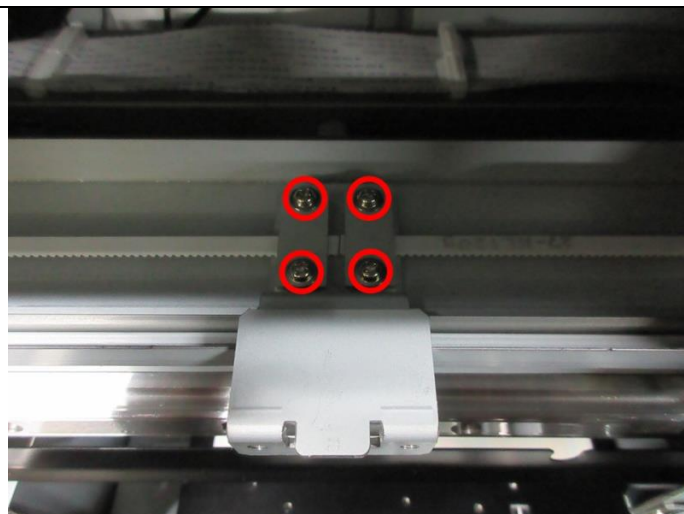
Step 6 / 17

Loosen the fixing screw, adjustment screw, and tension screw on the idle pulley side to allow the belt to slacken.



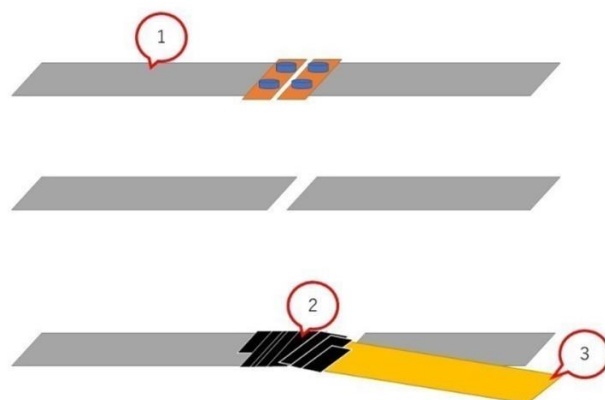
Step 7 / 17

Remove the carriage belt.



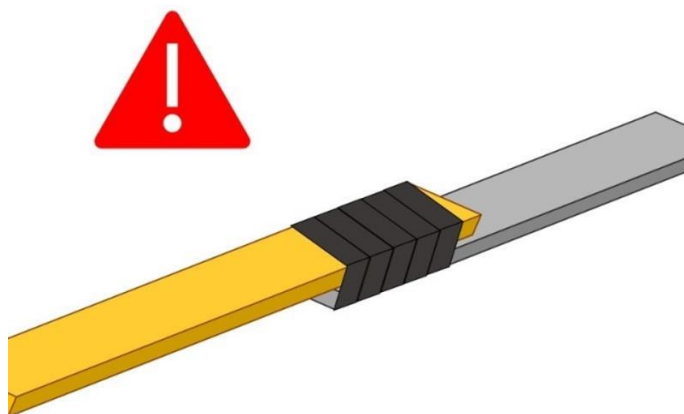
Step 8 / 17

Remove the carriage belt from the stay and attach a new carriage belt to one side with tape. (1. Old belt, 2. Tape, 3. New belt)



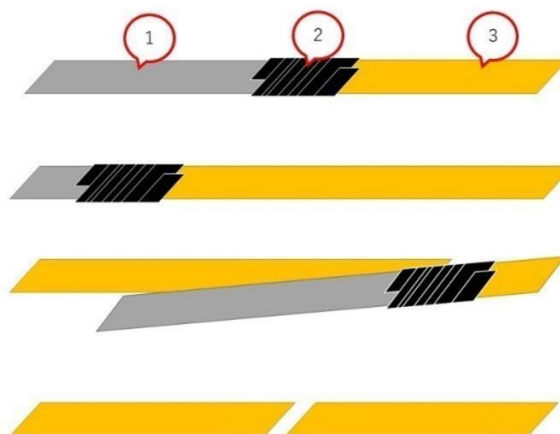
Step 9 / 17

When replacing the carriage belt, make sure to attach the new belt to the old belt, and then thread the new belt into place as you remove the old belt. If you do not replace it in this way, you may not be able to install the new belt.



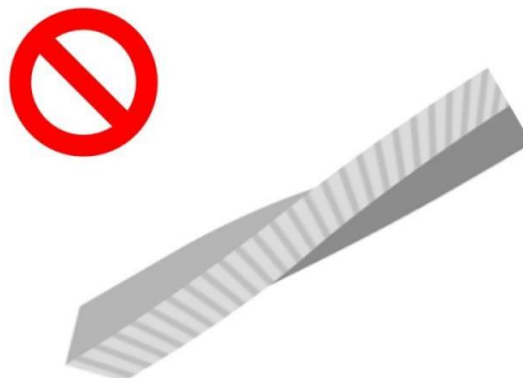
Step 10 / 17

Pull the new carriage belt until it reaches the belt on the unconnected side. Once the belt has completed one rotation, remove the tape. (1. old belt, 2. tape, 3. new belt)



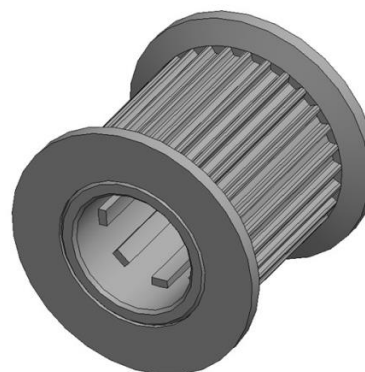
Step 11 / 17

Note: Make sure the belt is not twisted.



Step 12 / 17

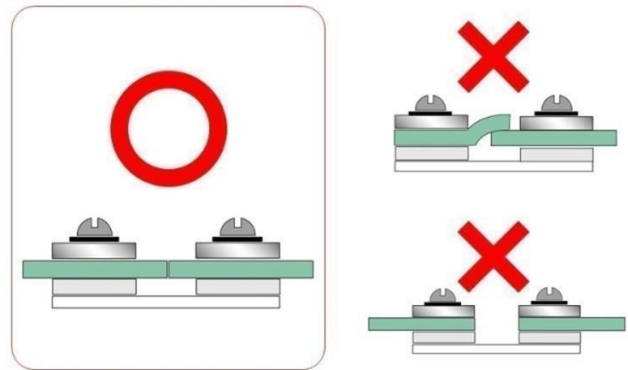
Apply an appropriate amount of grease to both side of pulleys. (Grease: FLOIL G-902 10ML_02, Application amount: Appropriate amount)



Step 13 / 17

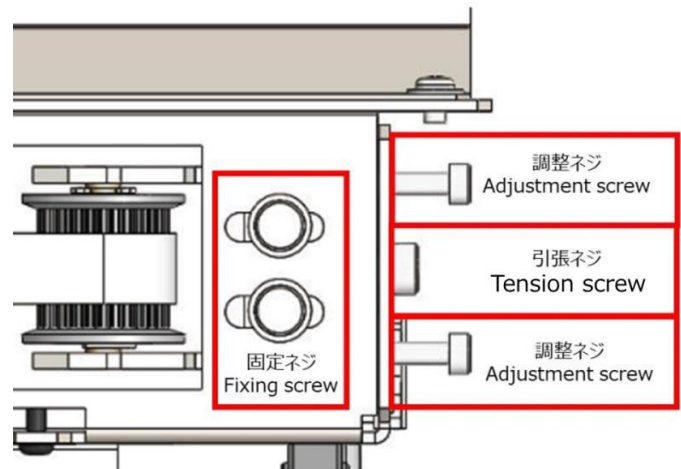
Peel off the tape, and then tighten two screws to fasten both ends of the carriage belt to the belt holder with the plastic plate and the metal plate. When installing the carriage belt, make sure that the ends of the belt do not overlap. Be careful of the orientation of the plastic plate and the order in which the plates are fixed.

CAUTION



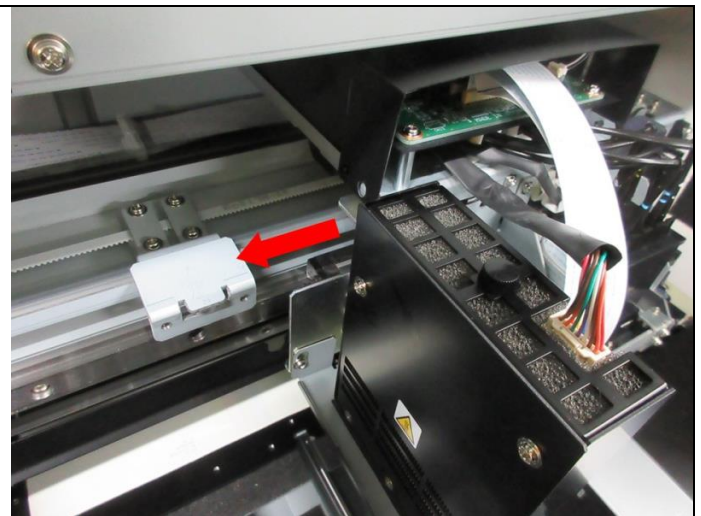
Step 14 / 17

Tighten the adjustment screw on the idle pulley side to eliminate any slack in the belt, then tighten the fixing screw. Do not overtighten the screws.



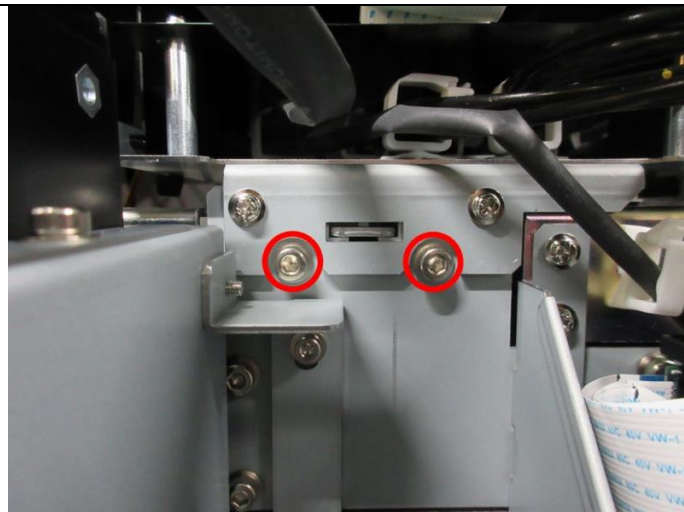
Step 15 / 17

Slide the print head carriage and align the carriage belt with the print head carriage.



Step 16 / 17

Fix the carriage belt and print head carriage with 2 screws.



Step 17 / 17

After completing the work, perform the adjustment works.



次の手順

ベルトテンション調整
ベルト位置調整
フラッシング位置調整
リニアエンコーダーセットアップ

Next Step

Belt tension adjustment
Belt position adjustment
Flushing position initialization
Linear encoder set up

BD-8 Table lifting motor replacement

BD-8 Table lifting 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 3.0mm Hexagonal wrench 3.0mm	

Step 2 / 4

Special Tools

特殊治具/Special Tool

1000005829 TOOL,VINYL YE UV RESISTANT ST-113	
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Step 3 / 4

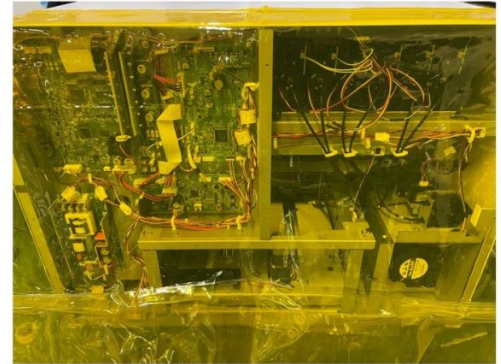
Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
テーブル昇降モーター交換 Linear encoder board replacement	40 min.

Step 4 / 4

When removing the cover, use a light-shielding sheet to prevent the ink from curing.



BD-8 Table lifting motor replacement

BD-8 Table lifting motor replacement Procedure

Step 1 / 28

In this replacement work, you need to lift the machine in a way that you can work from below. Never work in situations where safety cannot be ensured as it requires working from the underside of the machine.



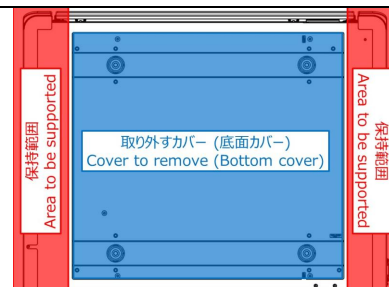
Step 2 / 28

Lift the machine to allow access from underneath, and place it on top of two tables or shelves. This task requires a minimum of three people to be done.



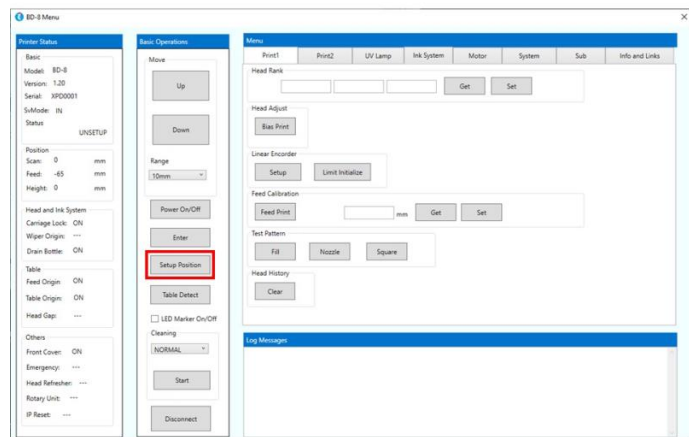
Step 3 / 28

Detail1: Areas to be supported by tables



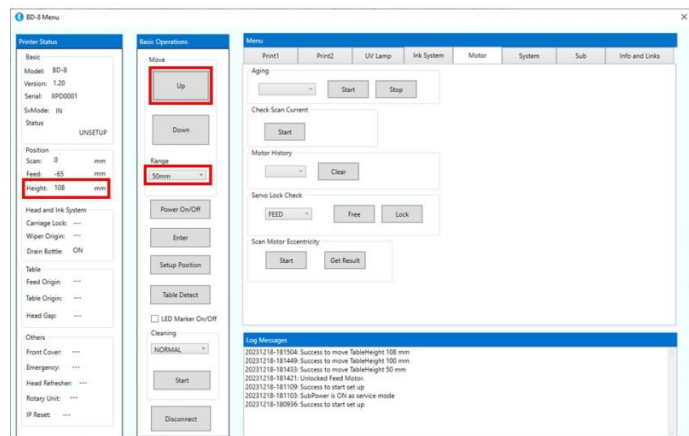
Step 4 / 28

Once Peck2 is connected, press [Setup Position] to perform setup operations. Make sure that the table and carriage have stopped moving.



Step 5 / 28

Select 50 mm from the [Range] pulldown and press [Up] three times to raise the table to the highest level (108 mm). *Do not press the button repeatedly; wait until the operation has stopped before pressing it.



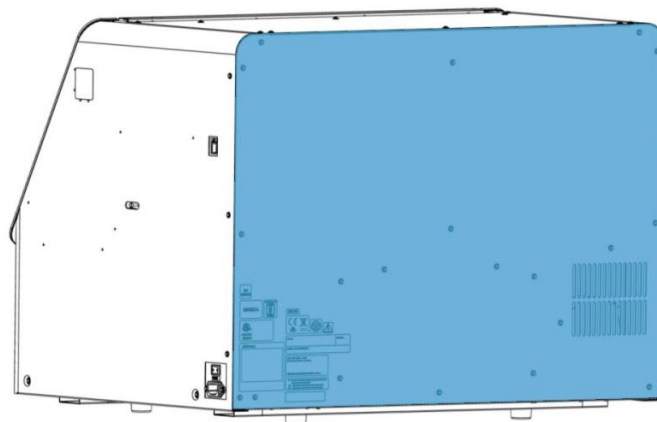
Step 6 / 28

Turn off the main power and unplug the power cable to maintain table height.



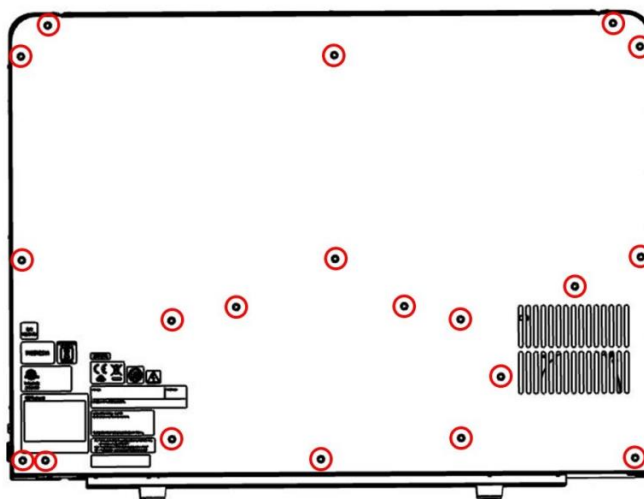
Step 7 / 28

Remove the back cover.



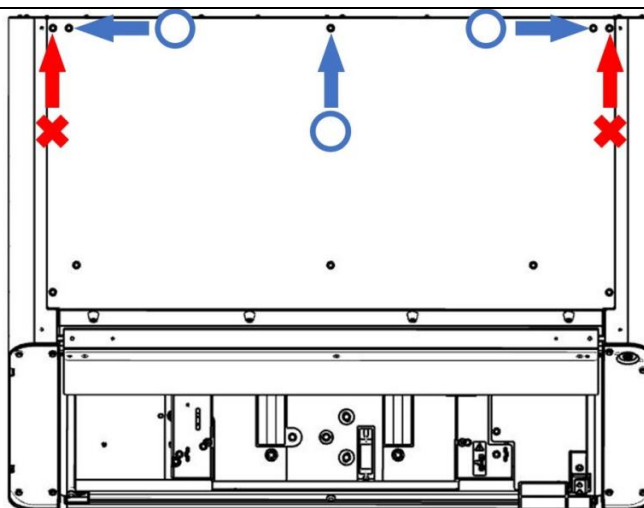
Step 8 / 28

Detail2: Remove the screws (20 places)
on the back.



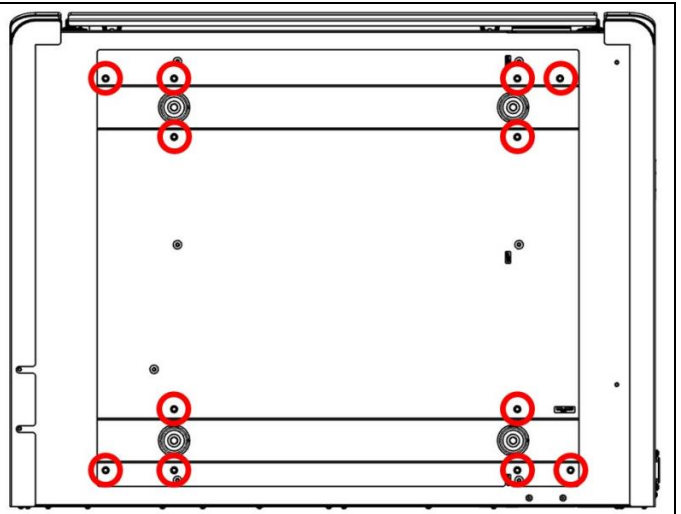
Step 9 / 28

Remove the screws (3 places) on the
rear inside of the top surface.



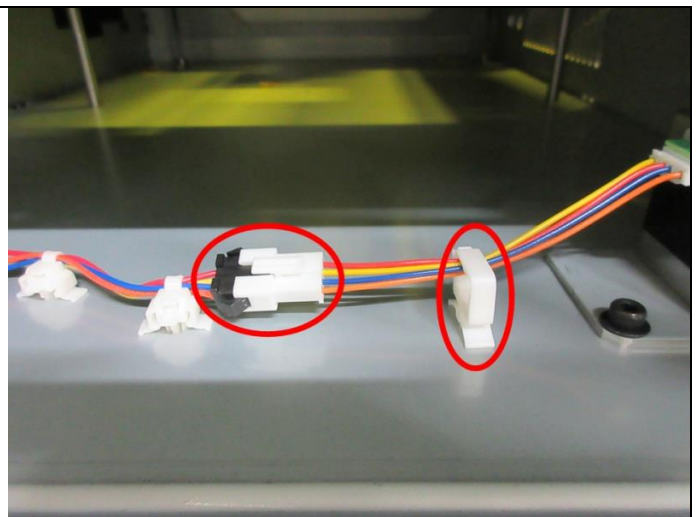
Step 10 / 28

Remove the screws (12 places) and
remove the bottom cover.



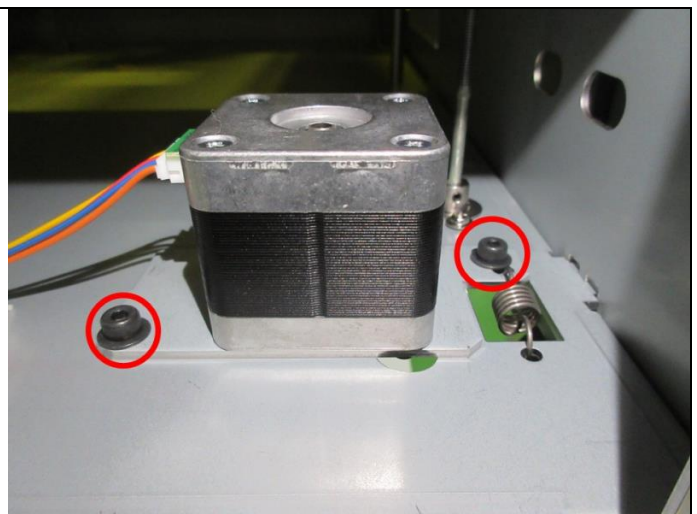
Step 11 / 28

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



Step 12 / 28

Remove the screws (2 places) that
secure the motor.



Step 13 / 28

Remove the belt.



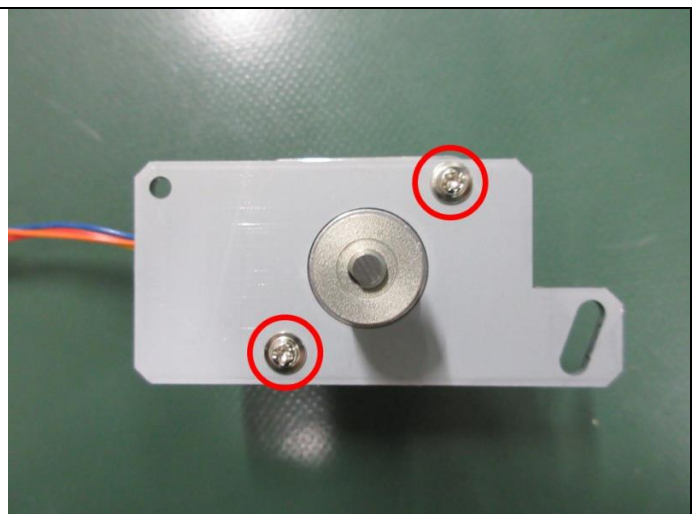
Step 14 / 28

Remove the spring.



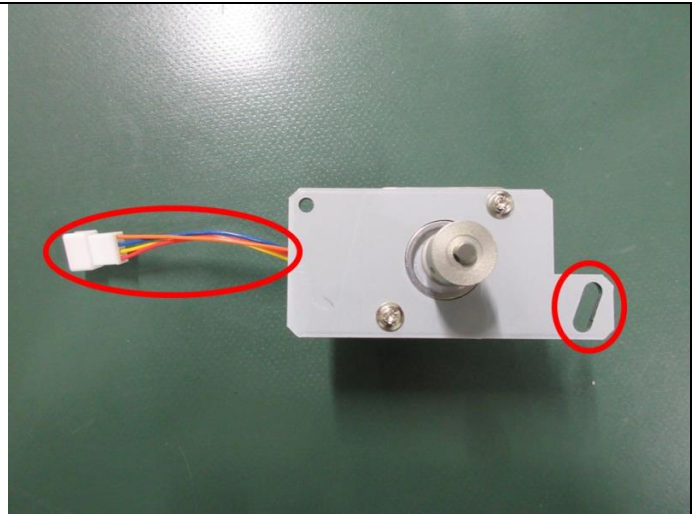
Step 15 / 28

Remove the table lift motor together with the plate, remove the screws (2 places), and attach the new motor to the plate.



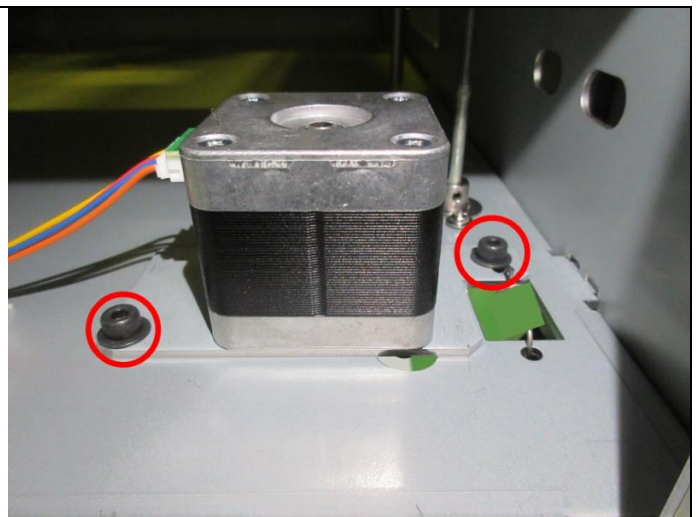
Step 16 / 28

When attaching the plate, pay attention to the orientation.



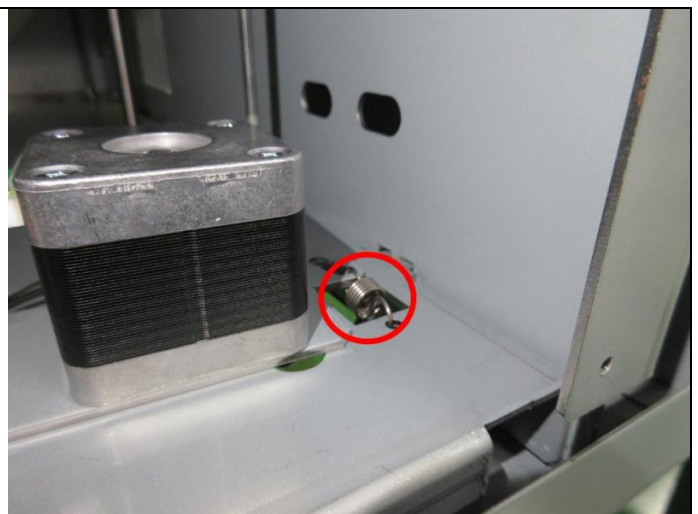
Step 17 / 28

Temporarily fasten the motor with screws (2 places).



Step 18 / 28

Attach the spring.



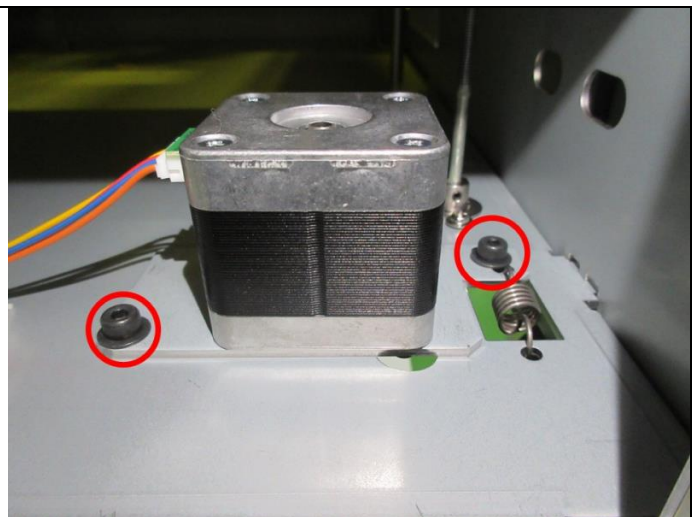
Step 19 / 28

Attach the belt.



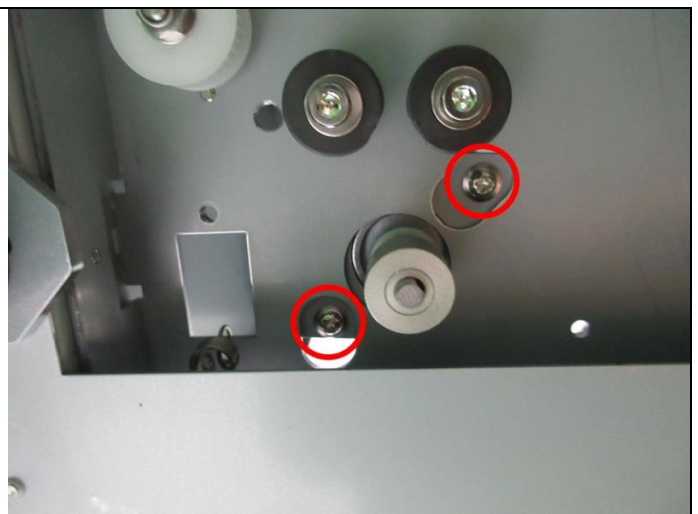
Step 20 / 28

Fully tighten the screws (2 places) that you temporarily tightened earlier.



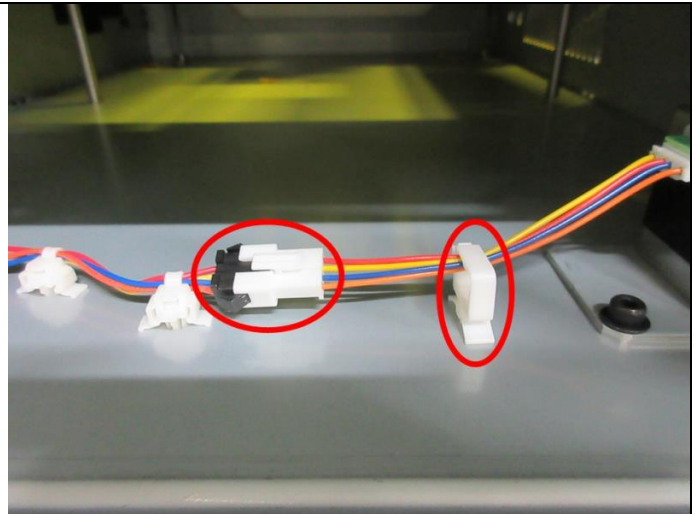
Step 21 / 28

When fixing the plate, check the mounting position through the hole on the bottom surface and securely fasten it in a position where the fixing screws do not overlap with the plate.



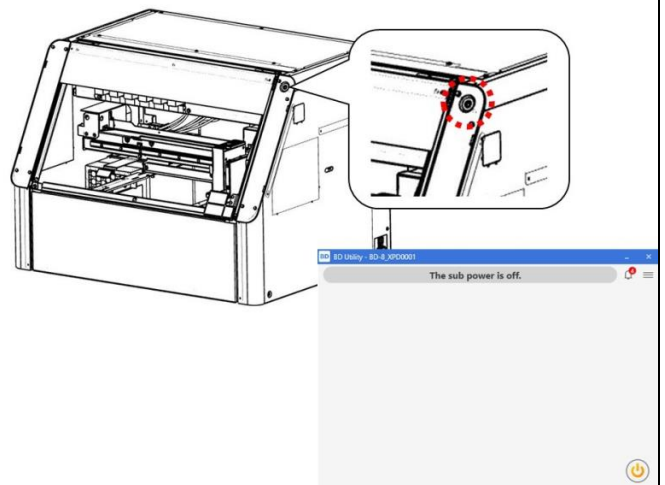
Step 22 / 28

Attach the motor connector and attach the cable to the cable clamp.



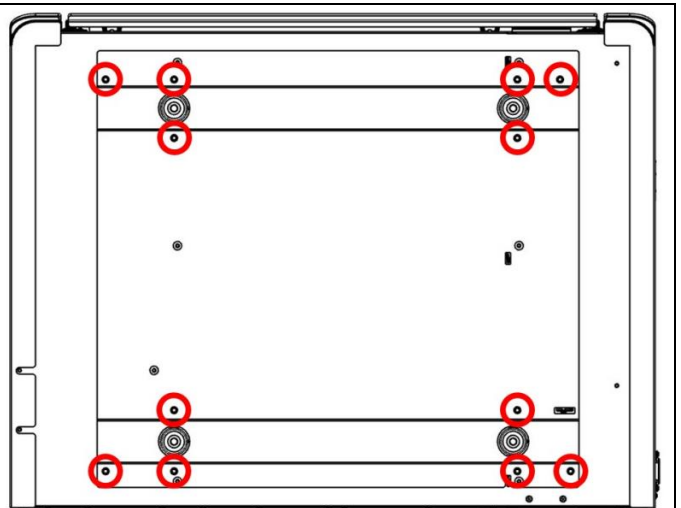
Step 23 / 28

Turn on the main power, start up in user mode from the power button or utility of the machine, and check if the table performs initial operations correctly.



Step 24 / 28

Attach the screws (12 places) and attach the bottom cover.



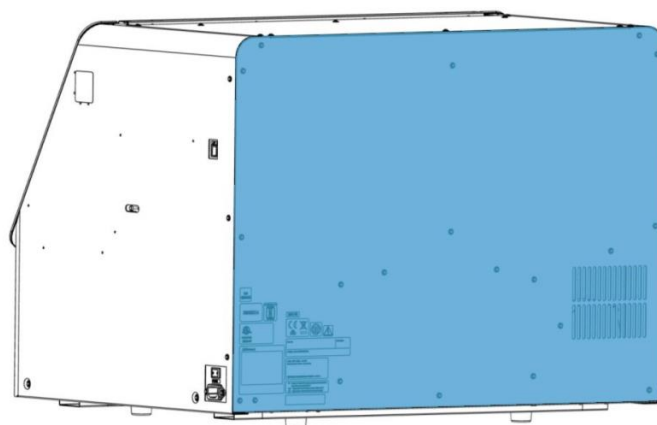
Step 25 / 28

Detail1: The bottom cover has holes for the exposed screws and tabs on the bottom surface. Therefore, attach the bottom cover in a direction where the screws and tabs align correctly with the corresponding holes.



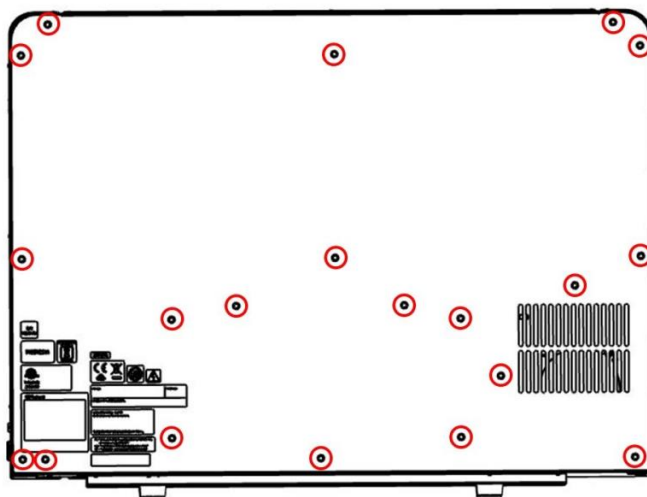
Step 26 / 28

Attach the back cover.



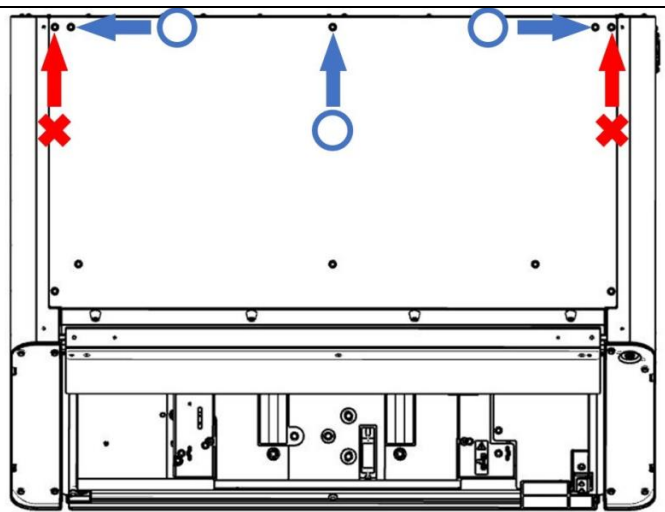
Step 27 / 28

Detail1: Attach the screws (20 places) on the back.



Step 28 / 28

Detail2: Attach the screws (3 places) on the rear inside of the top surface.



BD-8 Table lifting belt replacement

BD-8 Table lifting belt 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 3.0mm Hexagonal wrench 3.0mm	

Step 2 / 4

Special Tools

特殊治具/Special Tool

1000005829 TOOL,VINYL YE UV RESISTANT ST-113	
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Step 3 / 4

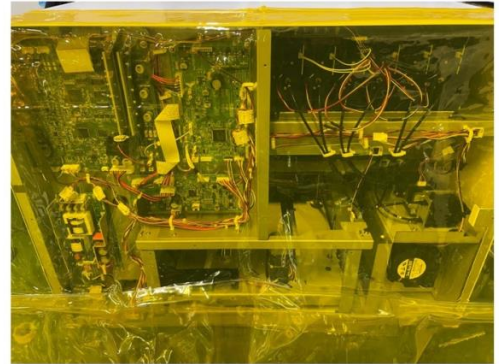
Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
テーブル昇降ベルト交換 Linear encoder belt replacement	40 min.

Step 4 / 4

When removing the cover, use a light-shielding sheet to prevent the ink from curing.



BD-8 Table lifting belt replacement

BD-8 Table lifting belt replacement

Procedure

Step 1 / 22

In this replacement work, you need to lift the machine in a way that you can work from below. Never work in situations where safety cannot be ensured as it requires working from the underside of the machine.



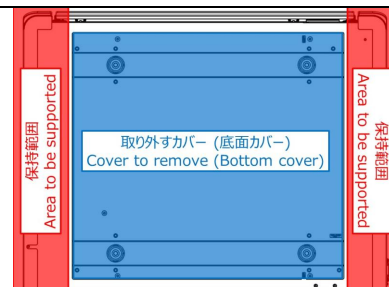
Step 2 / 22

Lift the machine to allow access from underneath, and place it on top of two tables or shelves. This task requires a minimum of three people to be done.



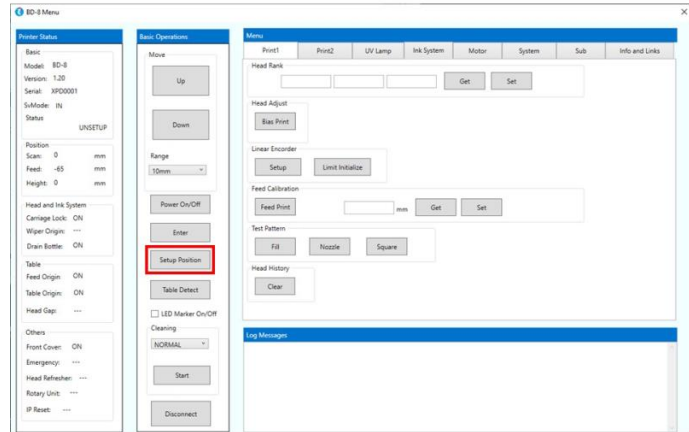
Step 3 / 22

Detail1: Areas to be supported by tables



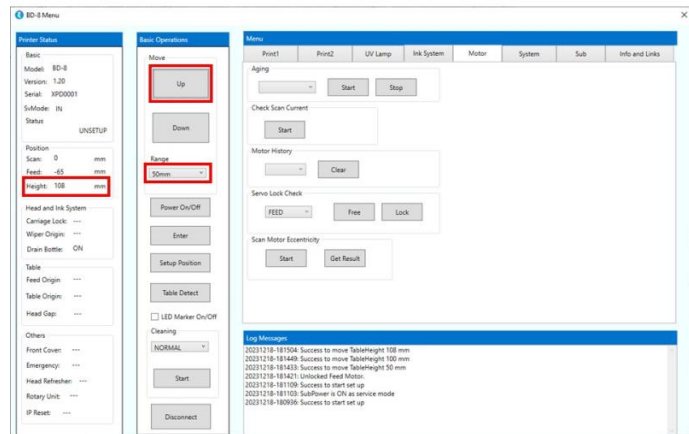
Step 4 / 22

Once Peck2 is connected, press [Setup Position] to perform setup operations. Make sure that the table and carriage have stopped moving.



Step 5 / 22

Select 50 mm from the [Range] pulldown and press [Up] three times to raise the table to the highest level (108 mm). *Do not press the button repeatedly; wait until the operation has stopped before pressing it.



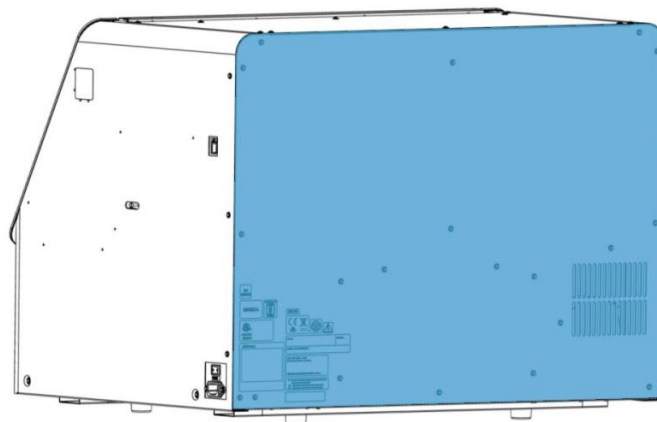
Step 6 / 22

Turn off the main power and unplug the power cable to maintain table height.



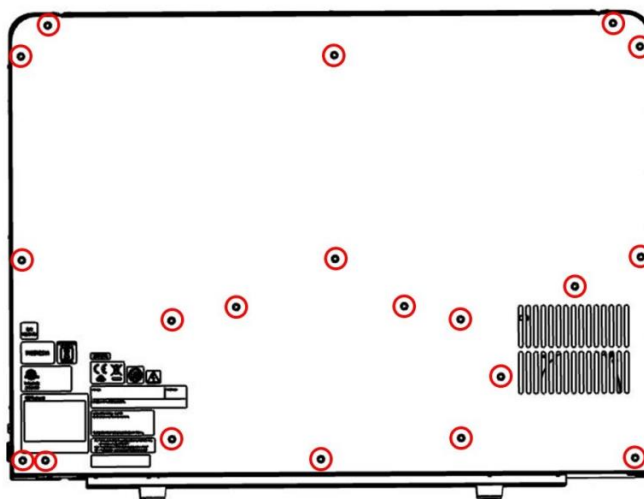
Step 7 / 22

Remove the back cover.



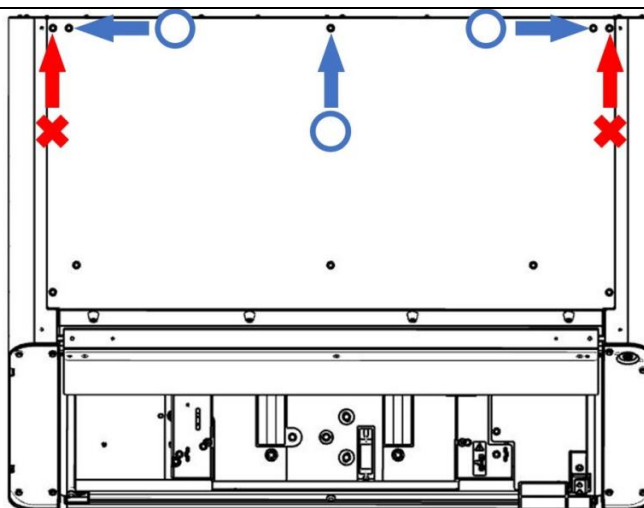
Step 8 / 22

Detail1: Remove the screws (20 places)
on the back.



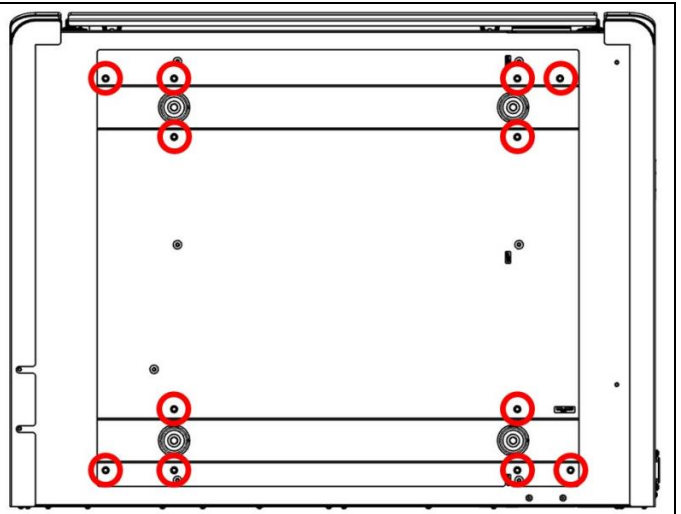
Step 9 / 22

Detail2: Remove the screws (3 places) on
the rear inside of the top surface.



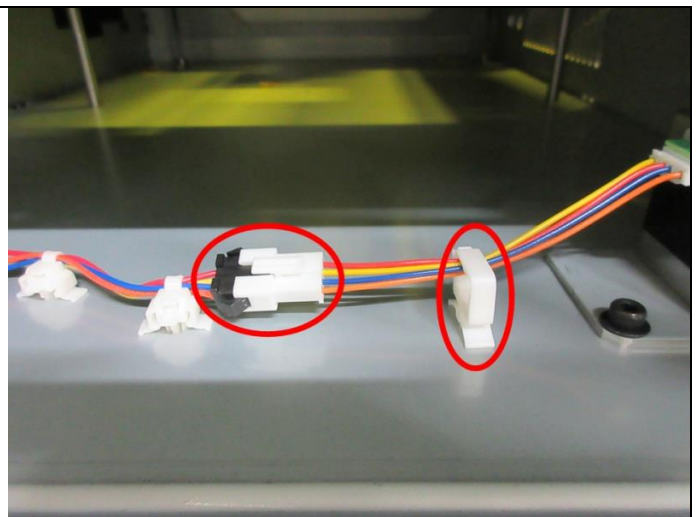
Step 10 / 22

Remove the screws (12 places) and
remove the bottom cover.



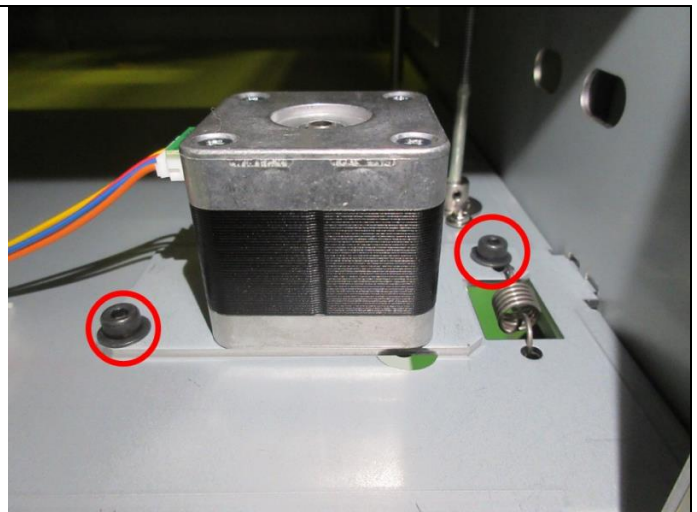
Step 11 / 22

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



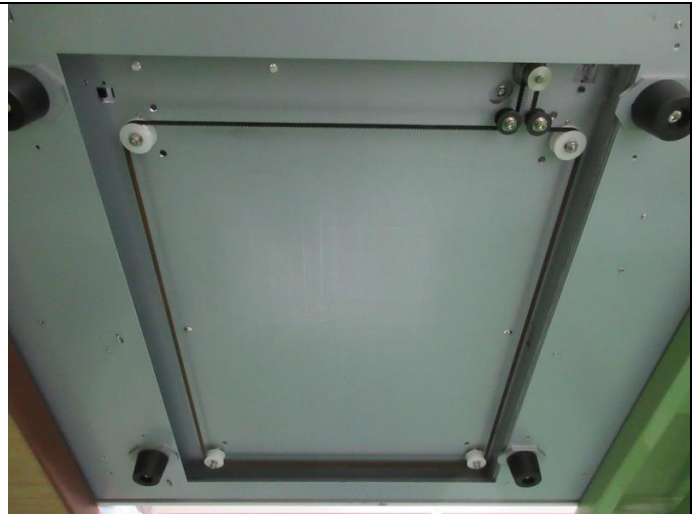
Step 12 / 22

Remove the screws (2 places) that
secure the motor.



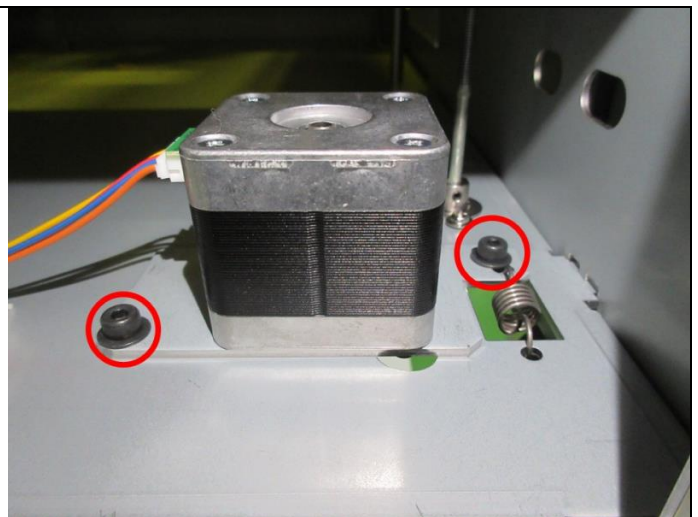
Step 13 / 22

Remove the belt and replace it with a new one.



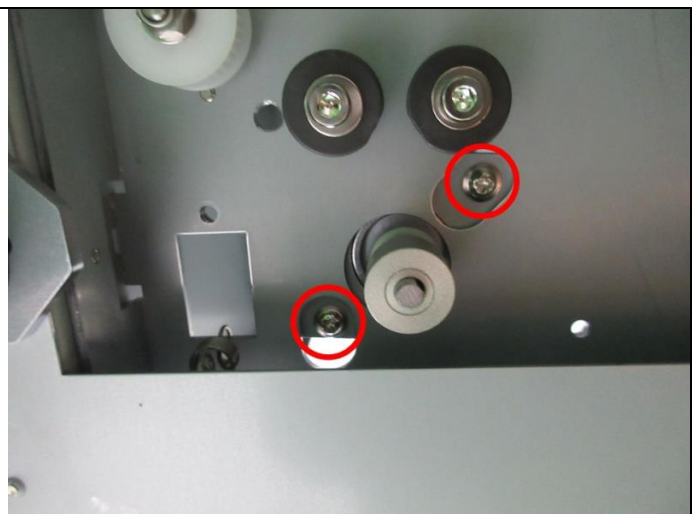
Step 14 / 22

Secure the motor with screws (2 places).



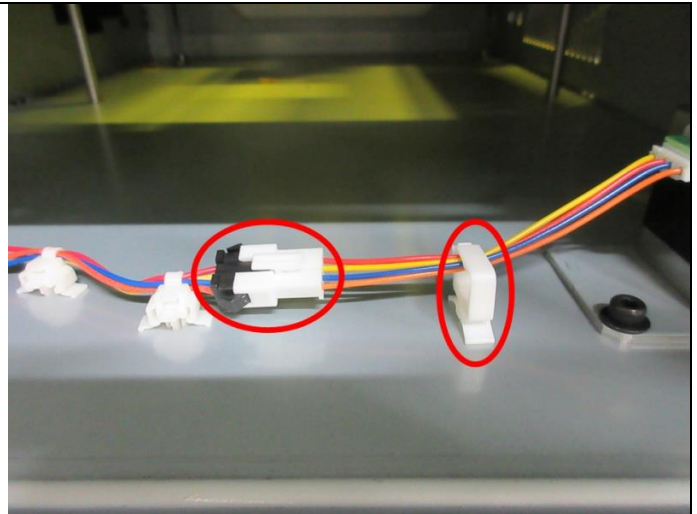
Step 15 / 22

When fixing the plate, check the mounting position through the hole on the bottom surface and securely fasten it in a position where the fixing screws do not overlap with the plate.



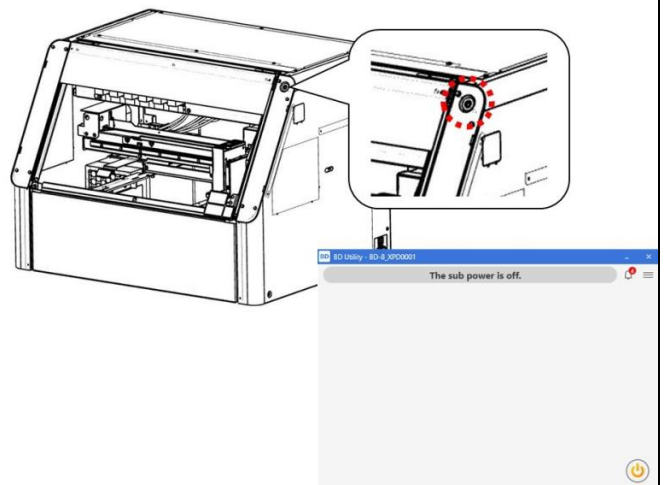
Step 16 / 22

Attach the motor connector and attach the cable to the cable clamp.



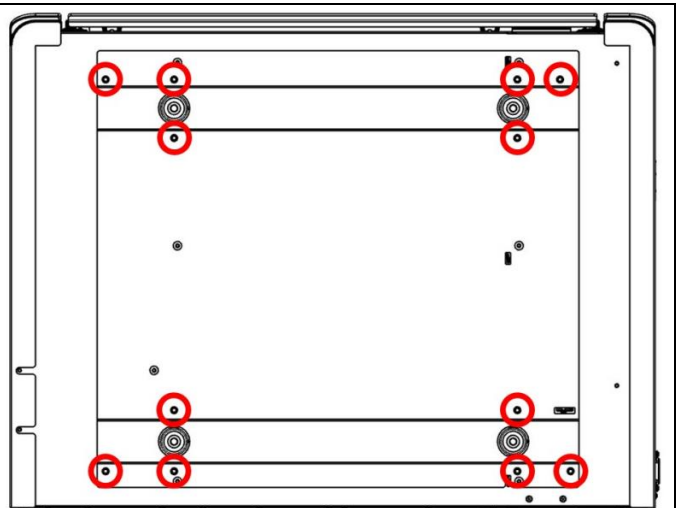
Step 17 / 22

Turn on the main power, start up in user mode from the power button or utility of the machine, and check if the table performs initial operations correctly.



Step 18 / 22

Install the screws (12 places) and attach the bottom cover.



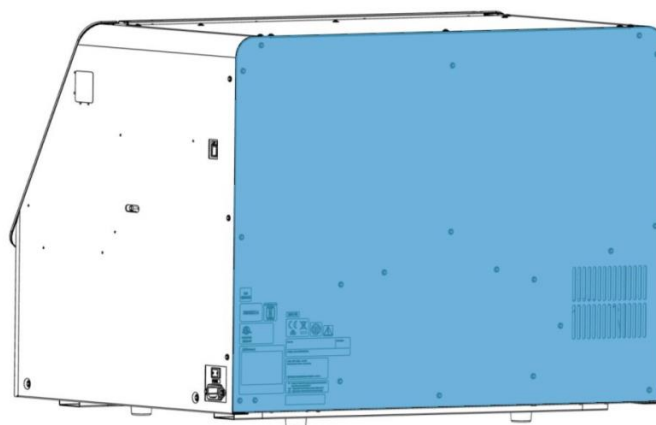
Step 19 / 22

Detail1: The bottom cover has holes for the exposed screws and tabs on the bottom surface. Therefore, attach the bottom cover in a direction where the screws and tabs align correctly with the corresponding holes.



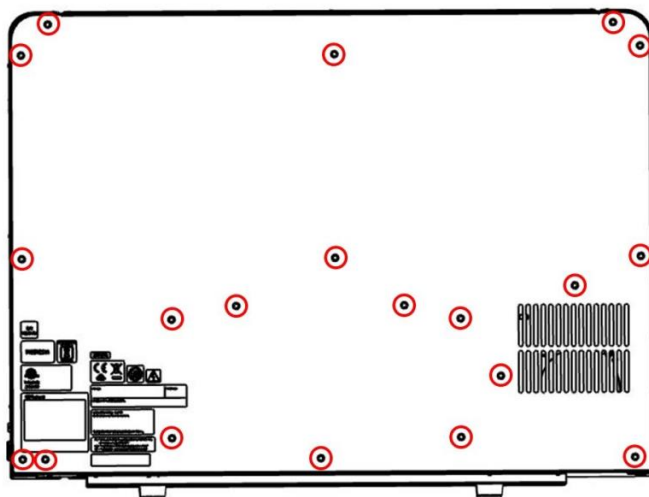
Step 20 / 22

Attach the back cover.



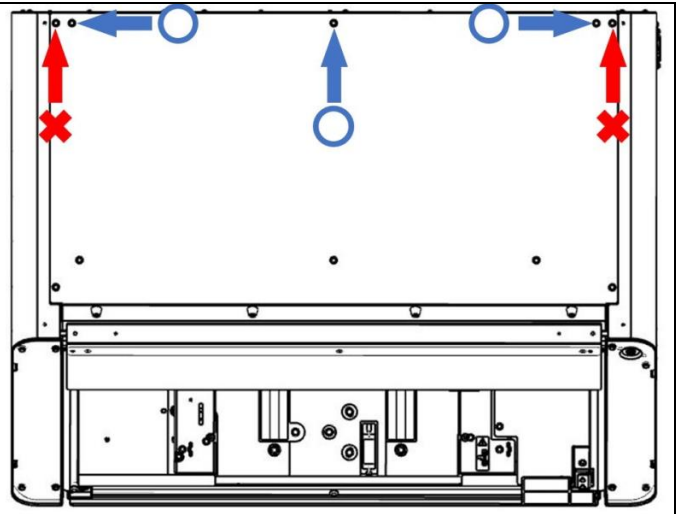
Step 21 / 22

Detail1: Attach the screws (20 places) on the back.



Step 22 / 22

Detail2: Attach the screws (3 places) on the rear inside of the top surface.



BD-8 UV lamp replacement

BD-8 UV lamp replacement Information

Step 1 / 5

Next Work 67 BD-8 UV lamp height adjustment



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	
六角レンチ 2.5mm Hexagonal wrench 2.5mm	

Step 3 / 5

Special Tools

特殊治具/Special Tool

1000005829 TOOL, VINYL YE UV RESISTANT ST-113	
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Step 4 / 5

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.
UVランプ照射確認 UV lamp check	5 min.
ヒストリークリア History clear	1 min.

Step 5 / 5

When removing the cover, use a light-shielding sheet to prevent the ink from curing.



BD-8 UV lamp replacement

BD-8 UV lamp replacement Procedure

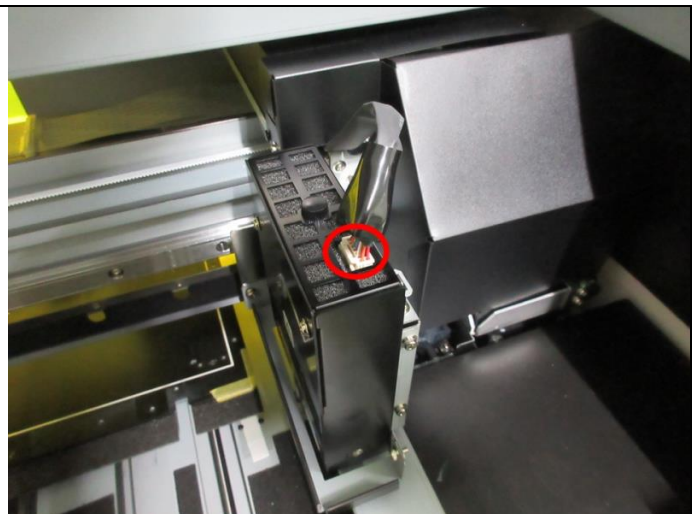
Step 1 / 20

Remove the UV lamp connector cover.



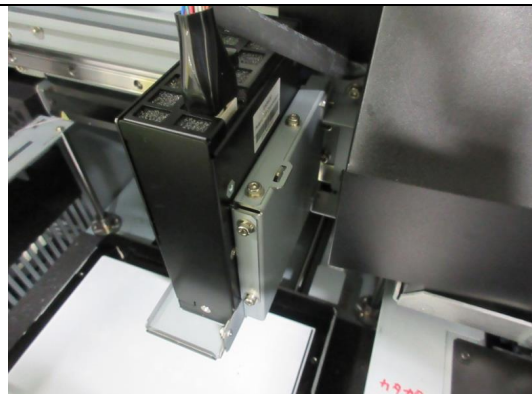
Step 2 / 20

Remove the UV lamp connector.



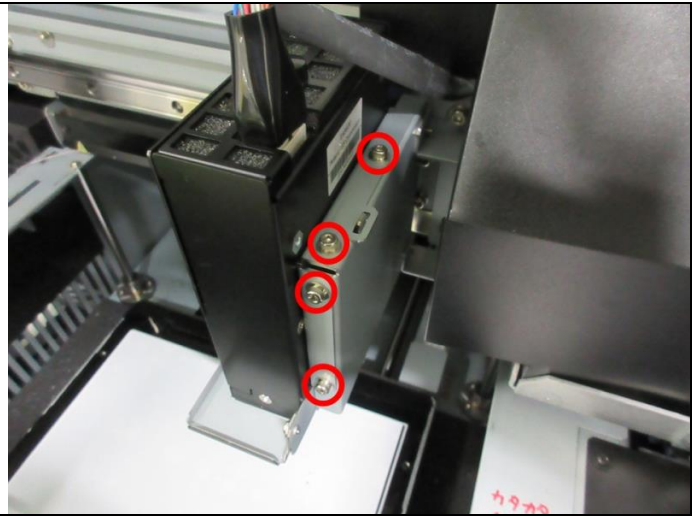
Step 3 / 20

Remove the screws (7 locations) and remove the UV lamp together with the UV lamp plate.



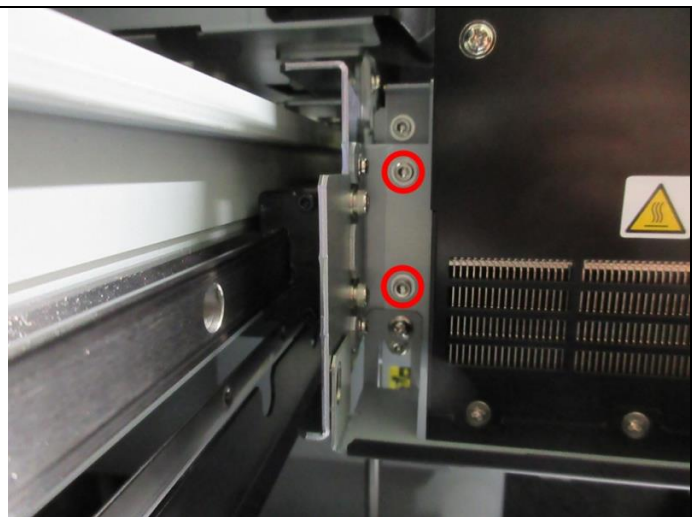
Step 4 / 20

Detail1: Screws to be removed (4 places)



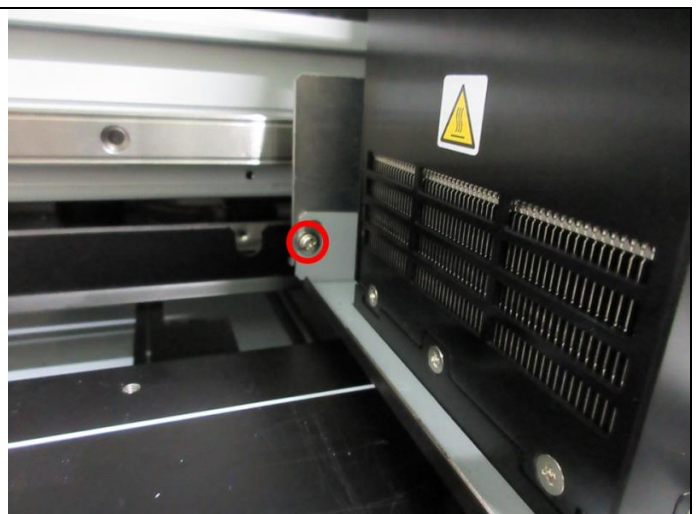
Step 5 / 20

Detail2: Screws to be remove (2 places)



Step 6 / 20

Detail3: to be removed (1 place)



Step 7 / 20

Remove the UV lamp by removing the UV lamp plate.



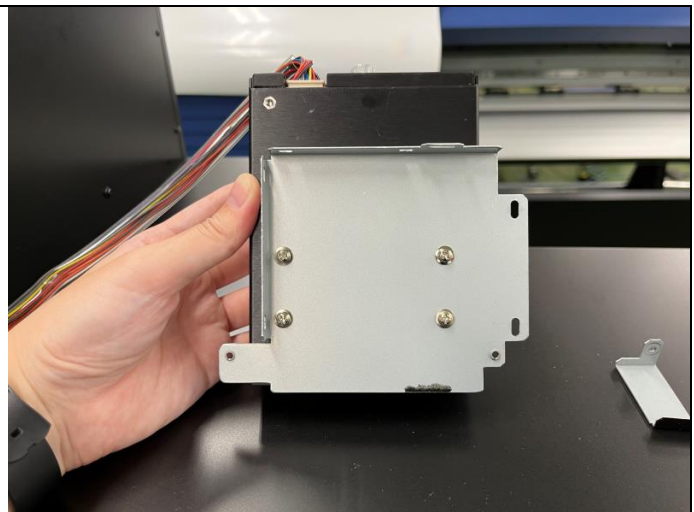
Step 8 / 20

Detail1: When attaching or detaching, please be careful not to let the UV lamp or lens come into contact with the UV reflection light suppression plate. If contact occurs, remove the reflection light suppression plate before proceeding with the work.



Step 9 / 20

Attach the new UV lamp to the UV lamp plate and attach it to the machine.



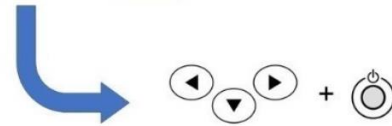
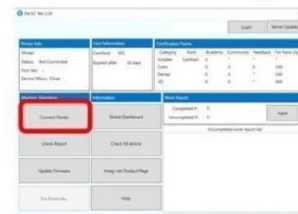
Step 10 / 20

Attach the UV lamp connector and connector cover.



Step 11 / 20

Enter service mode.



Step 12 / 20

Detail1: Start Peck2.



Step 13 / 20

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 14 / 20

Detail3: Log in with your Imag-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 15 / 20

Detail4: Click the [Connect Printer] button.

Peck2 Ver. 2.20

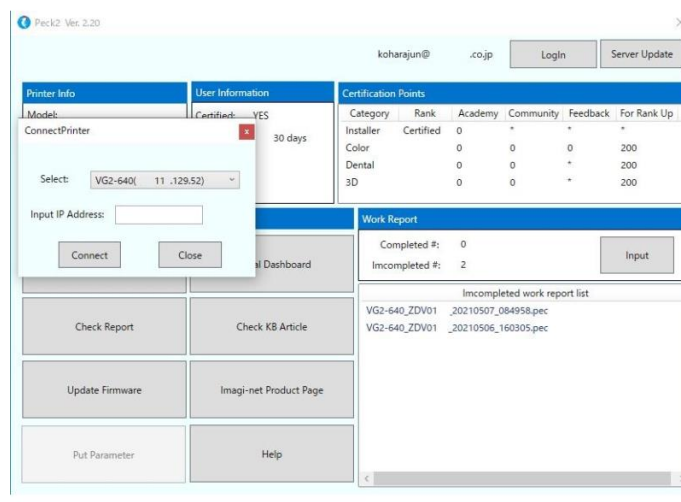
koharajun@ co.jp Login Server Update

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	

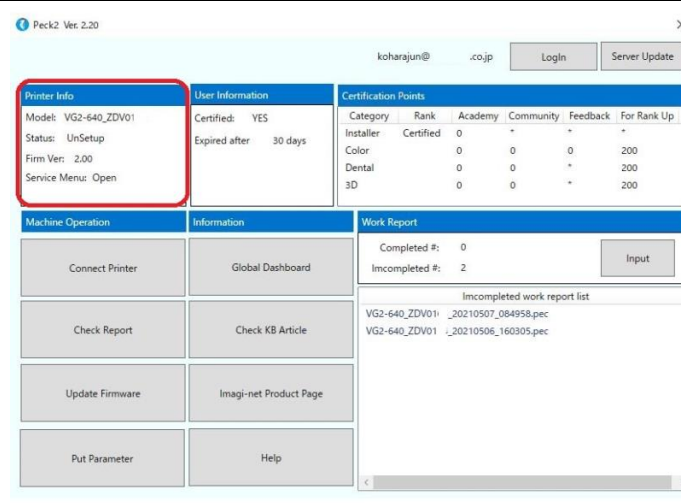
Step 16 / 20

Detail5: Enter the IP address of the machine to connect.



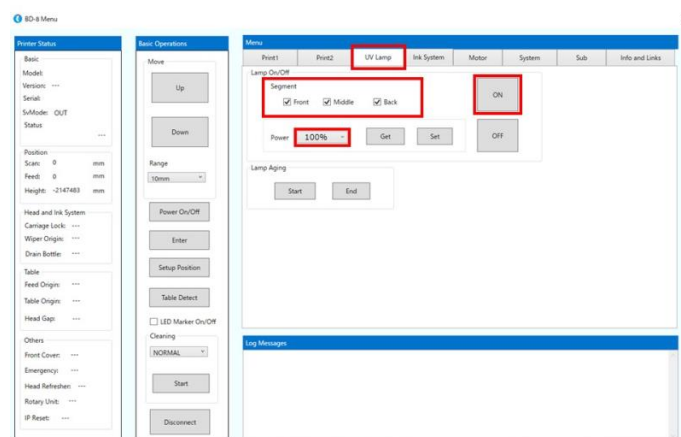
Step 17 / 20

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



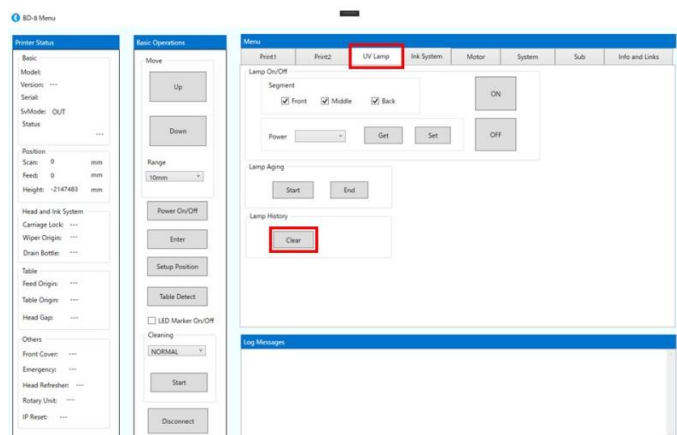
Step 18 / 20

Start Peck2, select the irradiation area from [Segment] under [Lamp On/Off] in [UV Lamp], select the irradiation power from the pull-down menu from [Power], and press [ON]. Check that the lamp is illuminated properly.



Step 19 / 20

Press [Clear] from [Lamp History] in [UV Lamp] to clear the UV lamp history.



Step 20 / 20

Adjustment



次の手順

UVランプ高さ調整

Next Step

UV lamp height adjustment

BD-8 UV lamp lens replacement

BD-8 UV lamp lens replacement Information

Step 1 / 5

Next Work 67 BD-8 UV lamp height adjustment



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	
六角レンチ 2.5mm Hexagonal wrench 2.5mm	

Step 3 / 5

Special Tools

特殊治具/Special Tool

1000005829 TOOL, VINYL YE UV RESISTANT ST-113	
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Step 4 / 5

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.

Step 5 / 5

When removing the cover, use a light-shielding sheet to prevent the ink from curing.



BD-8 UV lamp lens replacement

BD-8 UV lamp lens replacement Procedure

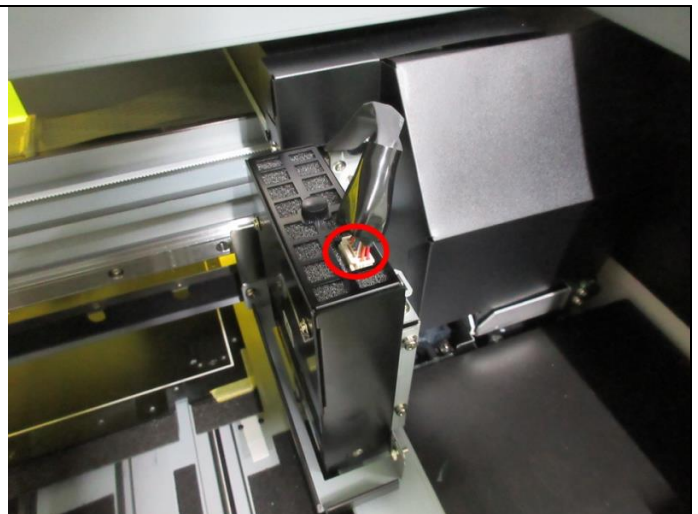
Step 1 / 17

Remove the UV lamp connector cover.



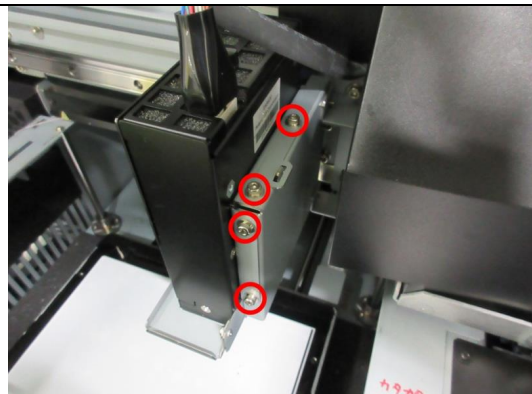
Step 2 / 17

Remove the UV lamp connector.



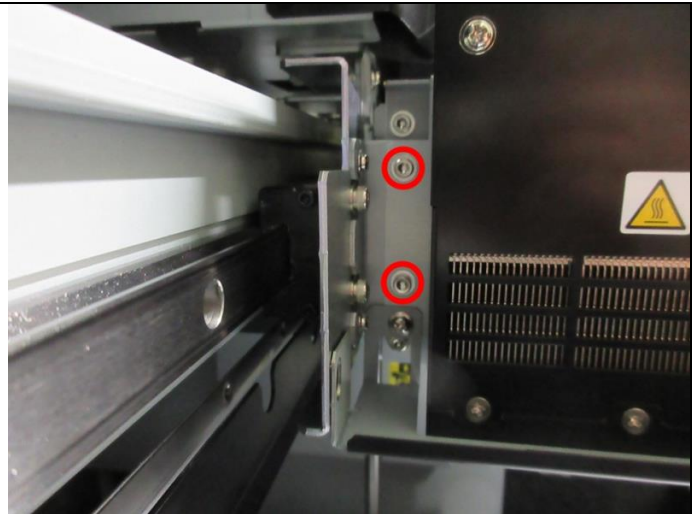
Step 3 / 17

Remove the screws (7 locations) and remove the UV lamp together with the UV lamp plate.



Step 4 / 17

Detail1: Screws (2 places)



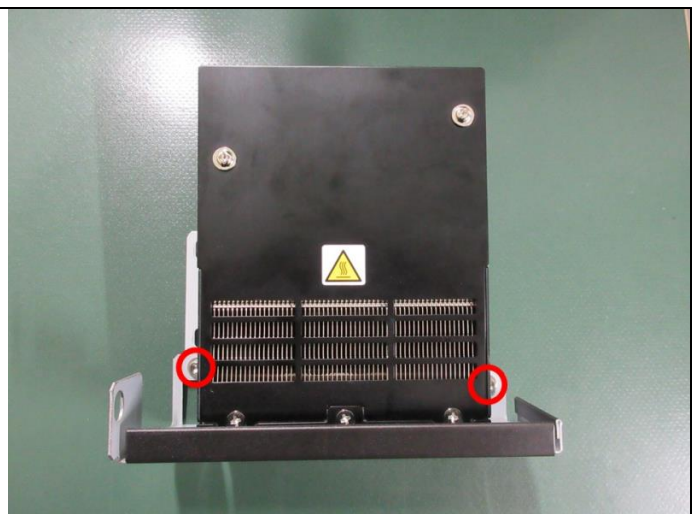
Step 5 / 17

Detail2: Screw (1 place)



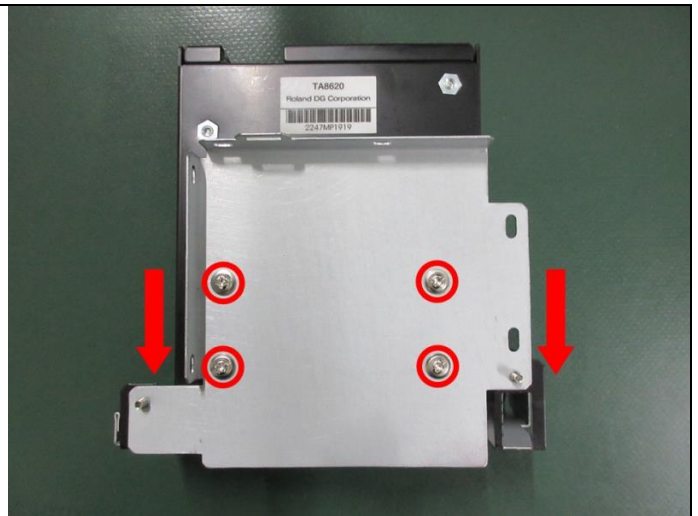
Step 6 / 17

Loosen the screws (2 places) that secure the UV reflection light suppression plate.



Step 7 / 17

Remove the screws (4 locations) that secure the UV lamp plate and pull it out together with the UV reflection light suppression plate.



Step 8 / 17

Remove the screws (4 locations) that secure the lens.



Step 9 / 17

Detail1: Screw to remove



Step 10 / 17

Detail2: Screw to remove



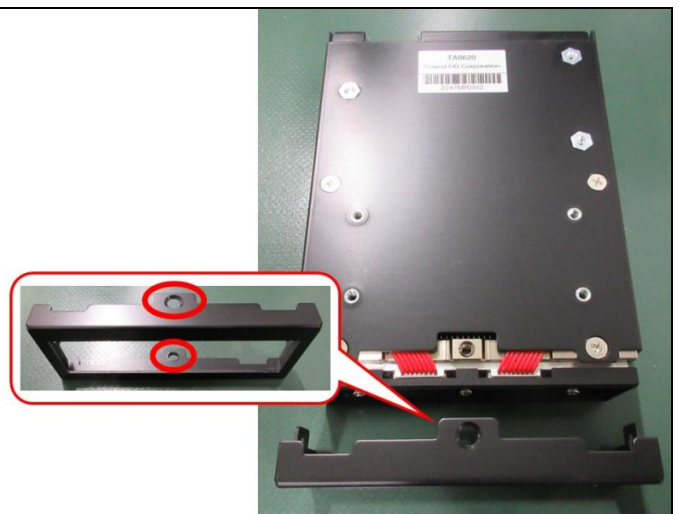
Step 11 / 17

Detail3: Screw to remove



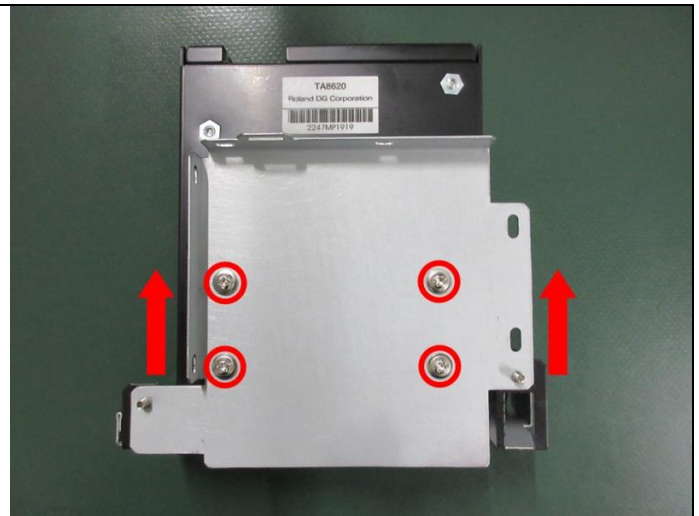
Step 12 / 17

Remove the lens and replace it with a new one. Lense has a fixed orientation, and cannot be installed if it is oriented in the wrong direction.



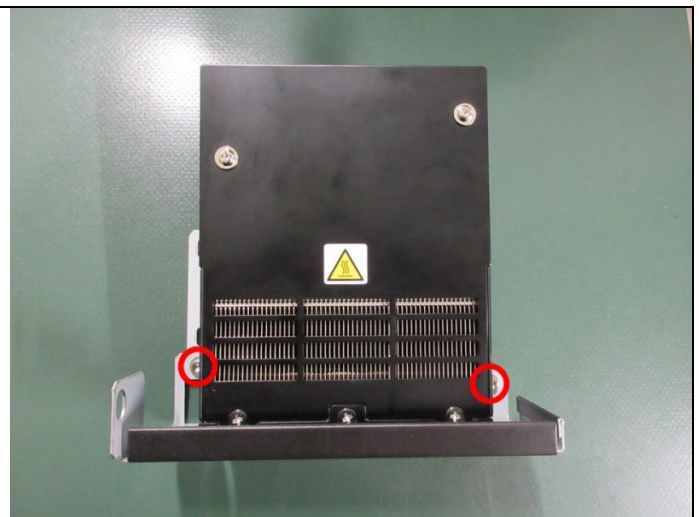
Step 13 / 17

Insert the UV reflection light suppression plate and UV lamp plate from the bottom of the UV lamp, and secure the UV lamp plate with screws (4 places).



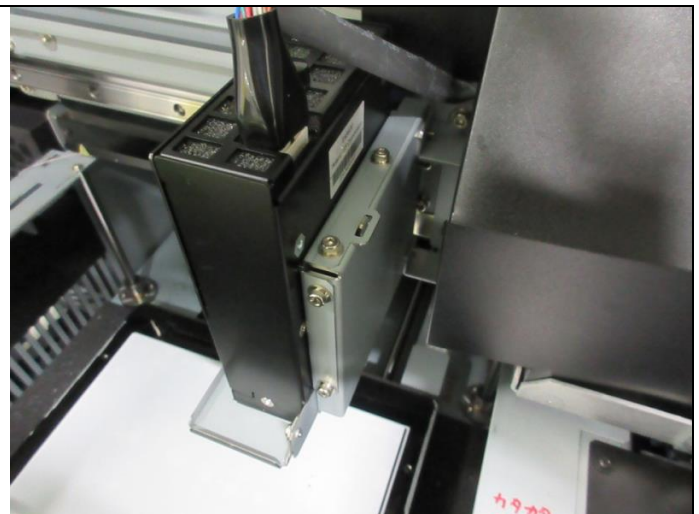
Step 14 / 17

Tighten the screws (2 places) that secure the UV reflection light suppression plate.



Step 15 / 17

Install the UV lamp.



Step 16 / 17

Attach the UV lamp connector and connector cover.



Step 17 / 17

Adjustment



次の手順

UVランプ高さ調整

Next Step

UV lamp height adjustment

BD-8 Print head alignment

BD-8 Print head alignment 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	
六角レンチ (1.5mm) Hexagonal wrench(1.5mm)	
LS-PET-G または 銀メディア LS-PET-G or Silver media	

Step 2 / 5

Special tools

特殊治具/Special Tools

プラスドライバー No.2 No.2 Phillips screwdriver	
六角 ビット 2.5mm BIT HEXAGONAL (2.5mm)	
1000005829 TOOL,VINYL YE UV RESISTANT ST-113	

Step 3 / 5

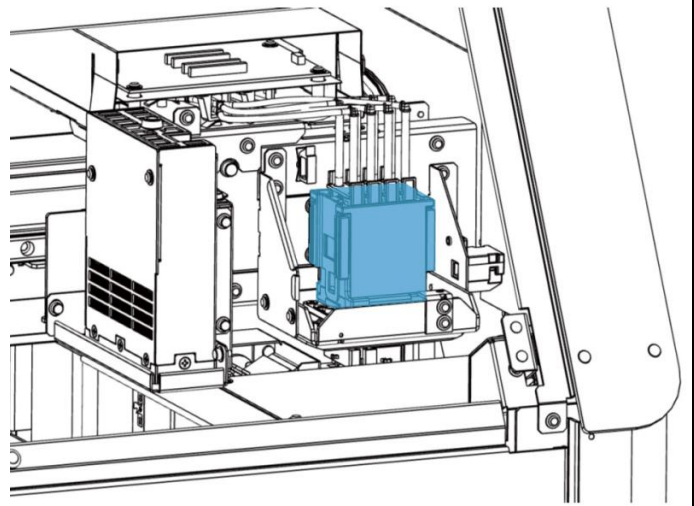
Typical Work Time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
ヘッド位置調整 Print head alignment	15 min.

Step 4 / 5

Outline diagram



Step 5 / 5

When removing the cover, use a light-shielding sheet to prevent the ink from curing.

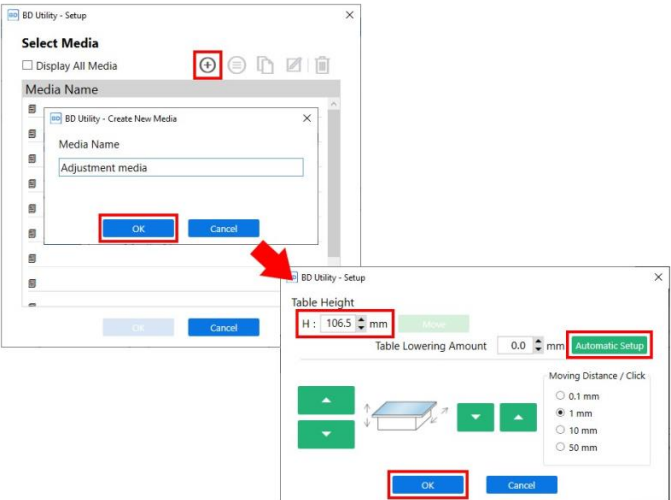


BD-8 Print head alignment

BD-8 Print head alignment Procedure

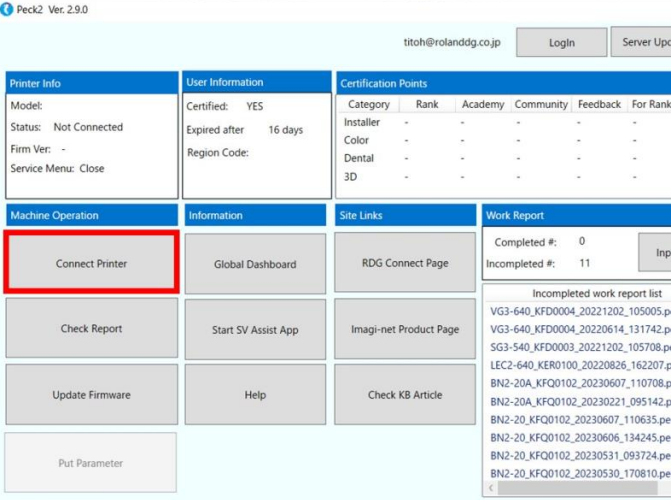
Step 1 / 24

Start the BD Utility, register the media used for adjustment as new media, perform setup, and then turn off the secondary power. The setup on Peck2 automatically applies the last used preset (table height, printing zone) in Utility.



Step 2 / 24

Connect Peck2 to the machine and enter the service mode.



Step 3 / 24

Detail1: Start Peck2.



Step 4 / 24

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	Incompleted 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 / 24

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 6 / 24

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	Incompleted 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 / 24

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

The screenshot shows the Peck2 Web 2.30 interface. A 'ConnectPrinter' dialog box is open, prompting the user to enter an 'Input IP Address'. The dialog also shows a 'Select' dropdown menu with the value 'BN2-20A 11 .129.52'. The background interface includes sections for 'Printer Info', 'User Information', 'Certification Points', 'Work Report', and a 'Dashboard' with buttons for 'Check Report', 'Check KB Article', 'Update Firmware', 'Imagi-net Product Page', 'Put Parameter', and 'Help'.

Step 8 / 24

Detail6: Confirm that the printer information is displayed in the [Printer Info] section of the Peck2 main screen and that the printer is connected to the machine.

The screenshot shows the BN2 Menu interface. The 'Printer Status' section on the left displays basic information: Model: BN2-20A, Version: 1.00, Serial: KFO0102, SvMode: IN, Status: UNSETUP. It also shows 'Head and Ink System' settings (Carriage Lock: ON, CropMark: ---, Wiper Origin: ---, Drain Bottle: ON) and 'Media' settings (Paper Front: ON, Paper Rear: ON, Pinch Pos: ---, Pinch U/D: Down). The 'Menu' section on the right includes tabs for 'Print', 'Ink System', 'Cut', 'Motor', 'System', 'Sub', and 'Info and Links'. The 'Print' tab is active, showing 'Head Rank' (Get/Set), 'Head Adjust' (Bias Print, Bi-Dir. Print, Get Bi-Dir., Set Bi-Dir.), 'Linear Encoder' (Set Up), 'Feed Calibration' (Feed Print, mm, Get, Set), 'Test Pattern' (Fill, Nozzle), and 'Clear Head History' (Clear). A 'Log Messages' section is at the bottom.

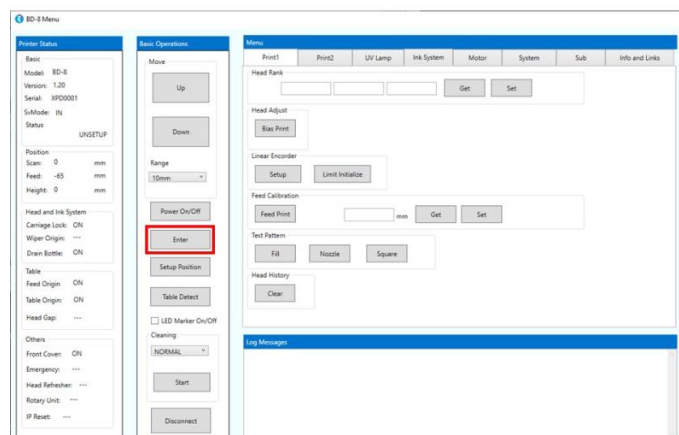
Step 9 / 24

Once Peck2 is connected, press [Setup Position] to perform setup operations. Make sure that the table and carriage have stopped moving.

The screenshot shows the ED-3 Menu interface. The 'Printer Status' section on the left displays basic information: Model: ED-3, Version: 1.20, Serial: XFO0001, SvMode: IN, Status: UNSETUP. It also shows 'Position' settings (Scan: 0 mm, Feed: -65 mm, Height: 0 mm) and 'Head and Ink System' settings (Carriage Lock: ON, Wiper Origin: ---, Drain Bottle: ON). The 'Basic Operations' section in the center has a 'Setup Position' button highlighted with a red box. Other buttons include 'Up', 'Down', 'Range', 'Power On/Off', 'Enter', 'Table Detect', 'LED Marker On/Off', 'Cleaning', 'Start', and 'Disconnect'. The 'Menu' section on the right includes tabs for 'Print', 'Ink System', 'UV Lamp', 'Motor', 'System', 'Sub', and 'Info and Links'. The 'Print' tab is active, showing 'Head Rank' (Get/Set), 'Head Adjust' (Bias Print, Get Bi-Dir., Set Bi-Dir.), 'Linear Encoder' (Setup, Limit Initialize), 'Feed Calibration' (Feed Print, mm, Get, Set), 'Test Pattern' (Fill, Nozzle, Square), and 'Head History' (Clear). A 'Log Messages' section is at the bottom.

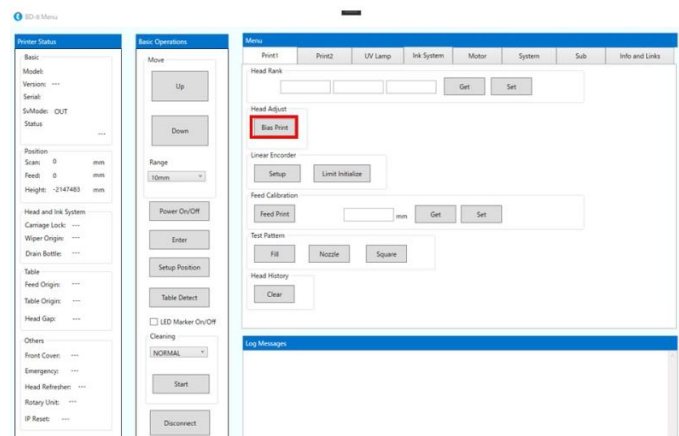
Step 10 / 24

When you press [Enter], the table will automatically move to the height set on the Utility and setup will be completed.



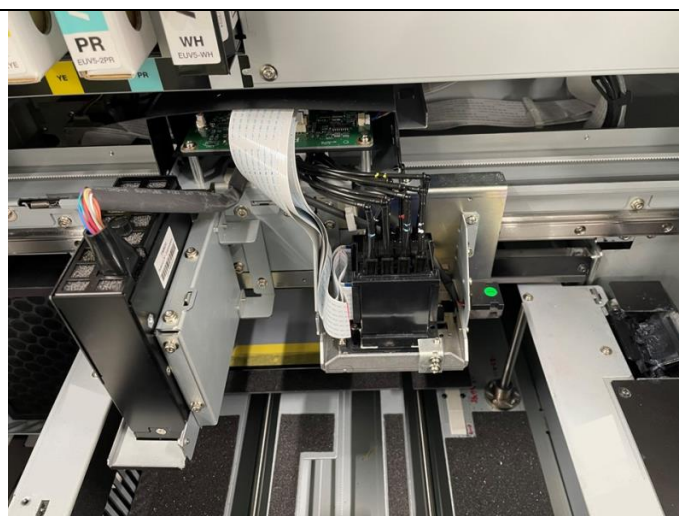
Step 11 / 24

Press [Print] > [Head Adjust] > [Bias Print] to print a bias test pattern.



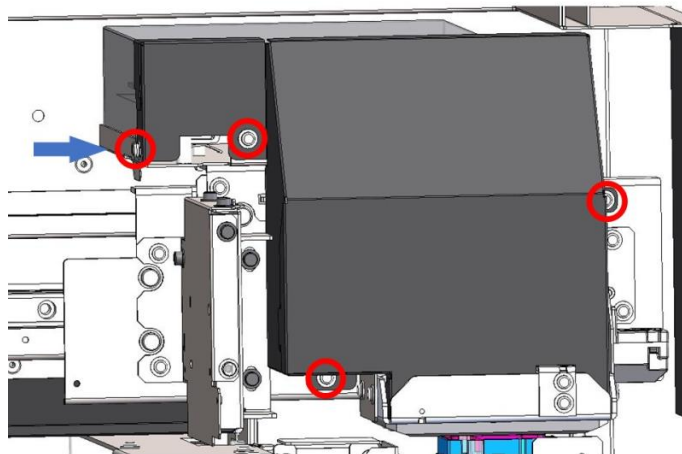
Step 12 / 24

Open the front cover, move the print head to the center of the printer, and remove the carriage cover.



Step 13 / 24

Detail1: Screws to be removed



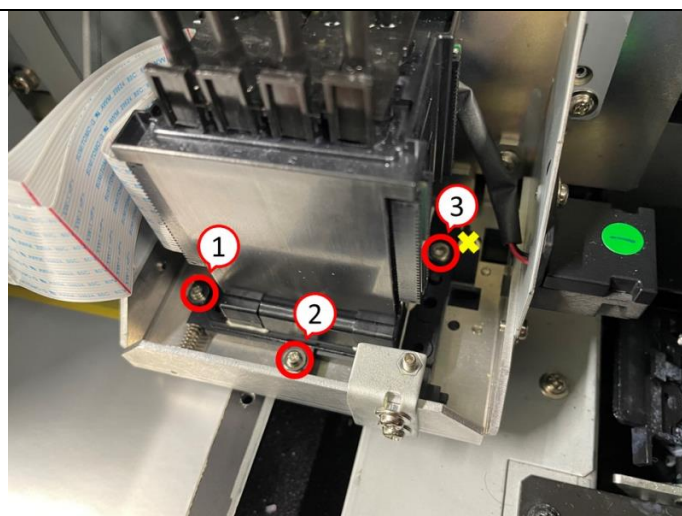
Step 14 / 24

Detail2: It is recommended that you put a dry cloth to prevent the screws from falling out.



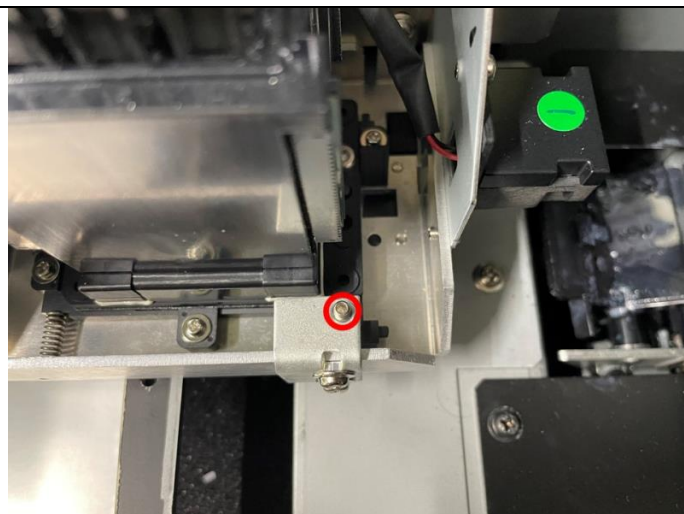
Step 15 / 24

Loosen the three screws (3 locations) securing the print head about 1/2 turn in the order shown in the figure. Note that if you loosen the screws too much, you will not be able to make the adjustment correctly.



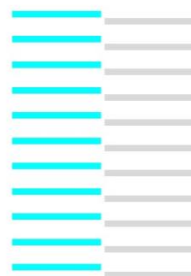
Step 16 / 24

Insert a 1.5 mm hex wrench into the screw on the right side of the front of the print head and adjust the screw so that the lines of each color in the group on the right side of the test pattern are aligned. 1/4 turn moves one line.



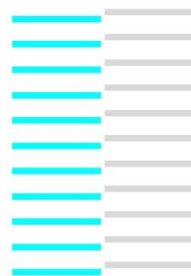
Step 17 / 24

Detail1: If the color on the right side has shifted down, turn the screw clockwise.



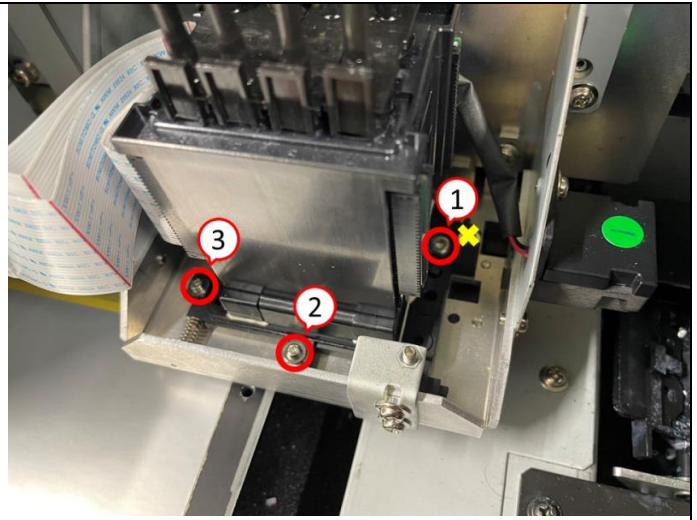
Step 18 / 24

If the color on the right side has shifted up, turn the screw counterclockwise.



Step 19 / 24

Using a torque screwdriver, tighten the head base fixing screws in the order shown in the figure. (Specified torque value: 0.2 N·m / 20 cN·m.) Do not tighten the screws too strongly, as the screw threads will be damaged if fastened with a torque value of 0.8 N·m / 80 cN·m or more.



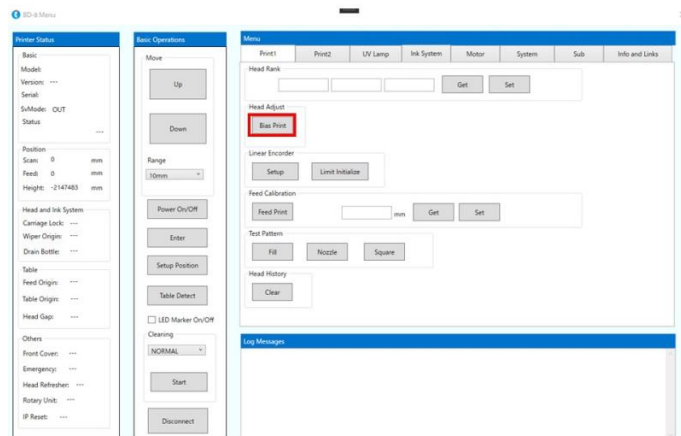
Step 20 / 24

Detail1: If the torque screwdriver comes in contact with the top cover when fastening screws, remove the front and top covers before proceeding.



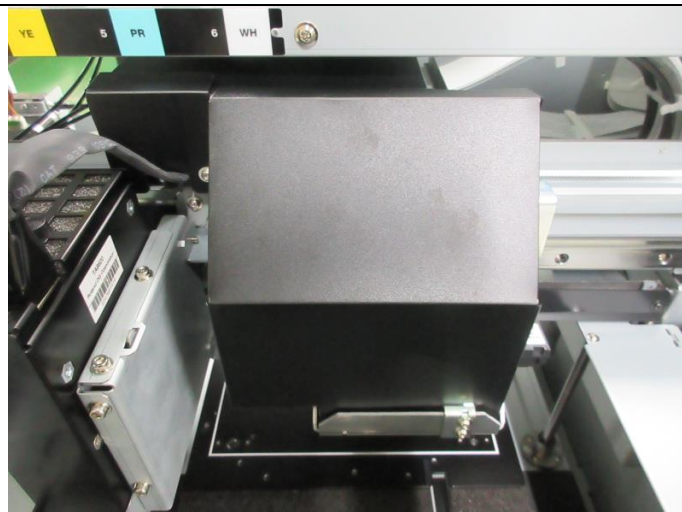
Step 21 / 24

Press [Print] > [Head Adjust] > [Bias Print] to print the bias test pattern again and confirm that the adjustment value is within 0.5 dots.



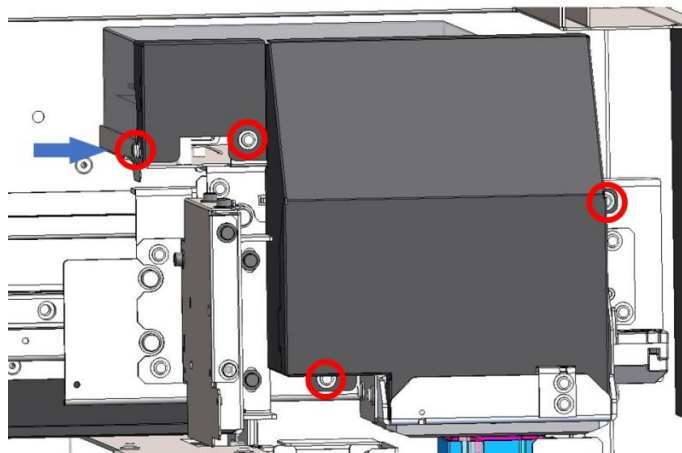
Step 22 / 24

Open the front cover and attach the carriage cover.



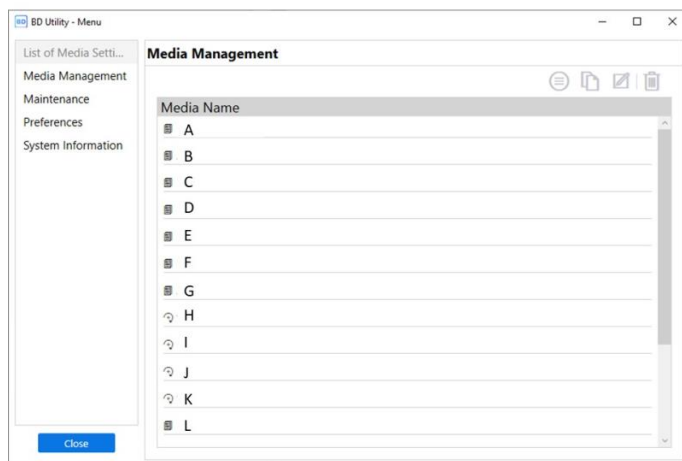
Step 23 / 24

Detail1: Screws to be attached



Step 24 / 24

Readjust the user-set media in your customer's BD Utility.



BD-8 Firmware installation

BD-8 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

作業時間/Typical work time

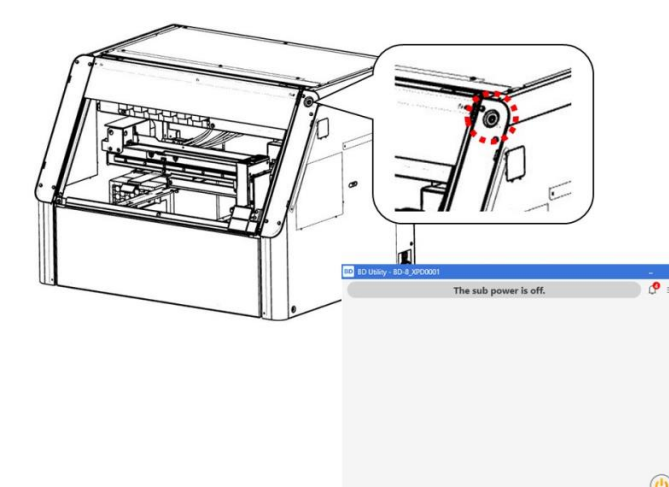
作業内容/Contents of work	時間/Time
ファームウェアインストール Firmware Installation	5 min.

BD-8 Firmware installation

BD-8 Firmware installation Procedure

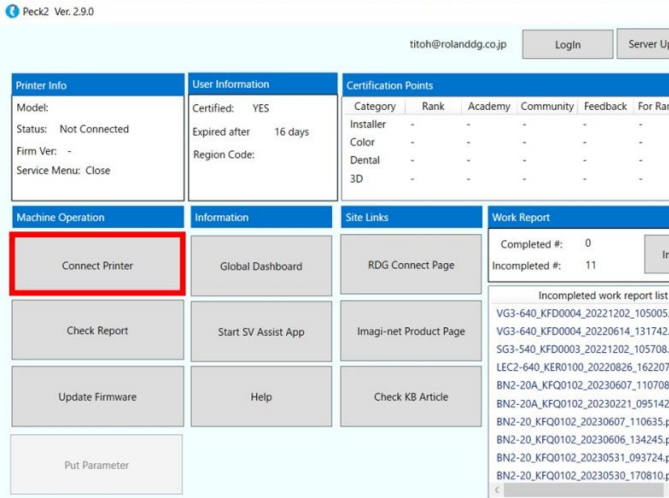
Step 1 / 9

Make sure the sub power of the machine is off.



Step 2 / 9

Connect Peck2 to the machine and enter Service Mode.



Step 3 / 9

Detail1: Start Peck2.



Step 4 / 9

Detail2: Click on 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	Incompleted 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 / 9

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 6 / 9

Click the [Connect Printer] button.

Peck2 Ver 2.20

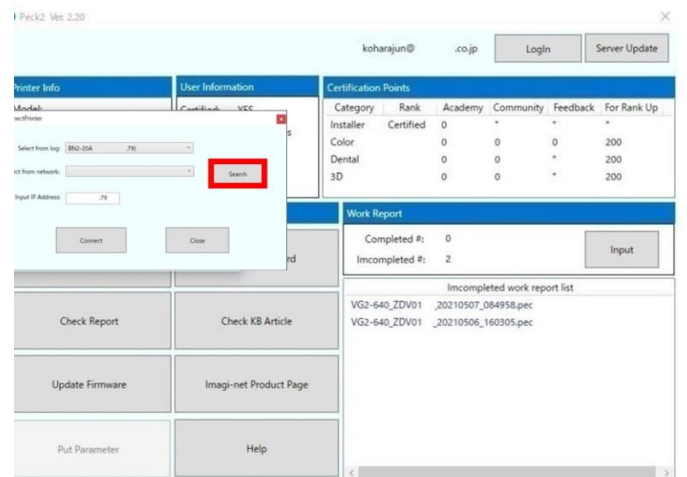
koharajun@ co.jp Login Server Update

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	Incompleted work report list
Update Firmware	Imagi-net Product Page	VG2-640_ZDV01 _20210507_084958.pec VG2-640_ZDV01 _20210506_160305.pec
Put Parameter	Help	

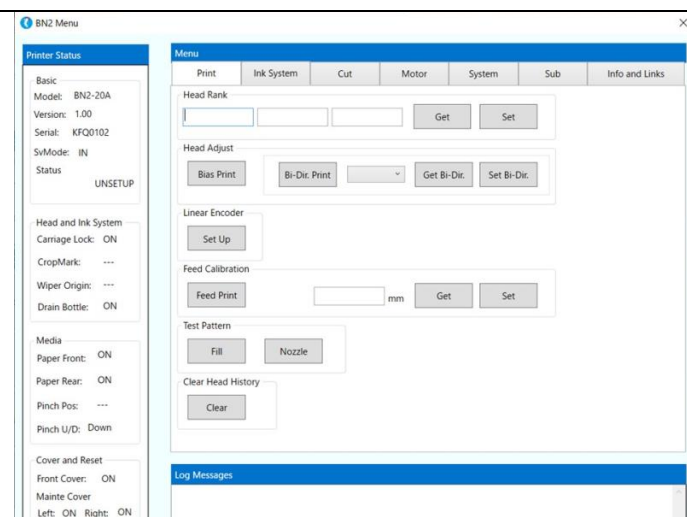
Step 7 / 9

Search for the IP address of the printer you wish to connect to by clicking the [Search] button. If you cannot find the IP address, check if the IP address setting of your PC is set to automatic acquisition.



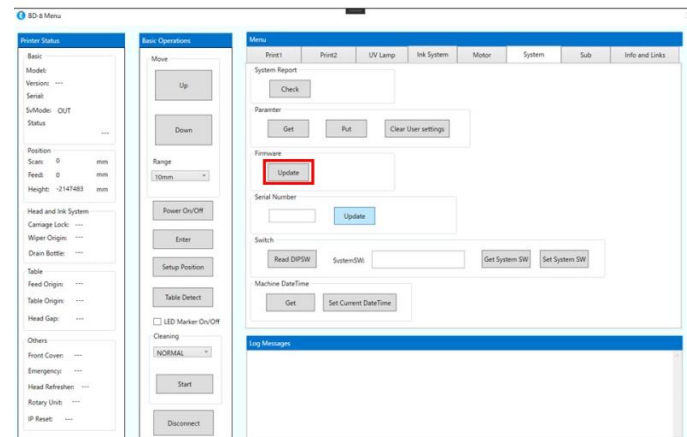
Step 8 / 9

Confirm that the printer information is displayed in the [Printer Info] section of the Peck2 main screen and that it is connected to the machine.



Step 9 / 9

Select [System] > [Firmware] > [Update] to install the firmware. When "Updating firmware has been completed" is displayed on Peck2, installation is complete.



BD-8 Firmware upgrade

BD-8 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

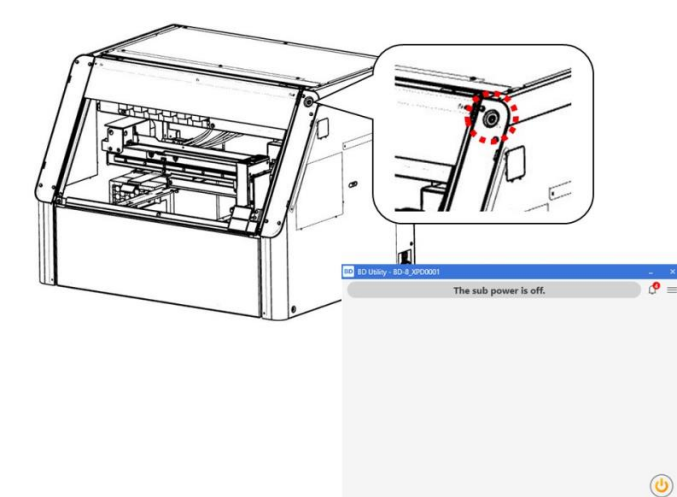
作業内容/Contents of work	時間/Time
ファームウェアアップグレード Firmware upgrade	5 min.

BD-8 Firmware upgrade

BD-8 Firmware upgrade Procedure

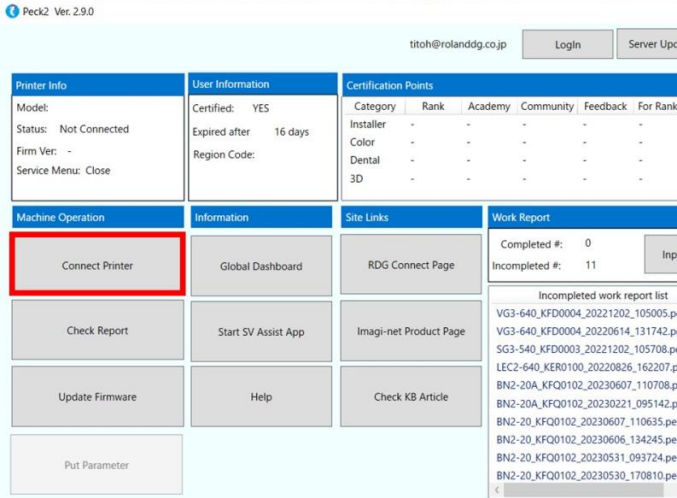
Step 1 / 9

Make sure the sub power of the machine is off.



Step 2 / 9

Connect Peck2 to the machine and enter Service Mode.



Step 3 / 9

Detail1: Start Peck2.



Step 4 / 9

Detail2: Click on 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	Incompleted 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 / 9

Detail3: Login with your Imagi-net ID.

Sign in to your account

Microsoft

Select an account

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利用規約 プライバシーとCookie

Step 6 / 9

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	Incompleted 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 / 9

Detail5: the IP address of the machine you wish to connect to.

The screenshot shows the Peck2 Web 2.30 interface. A 'ConnectPrinter' dialog box is open, prompting the user to 'Select' a printer (BN2-20A 11 .129.52) and 'Input IP Address'. The background interface includes sections for 'Printer Info', 'User Information', 'Certification Points', 'Work Report', and a 'Dashboard' with buttons for 'Check Report', 'Check KB Article', 'Update Firmware', 'Imagi-net Product Page', 'Put Parameter', and 'Help'.

Step 8 / 9

Confirm that the printer information is displayed in the [Printer Info] section of the Peck2 main screen and that the printer is connected to the machine.

The screenshot shows the Peck2 Web 2.30 interface with the 'Printer Info' section expanded. It displays printer details such as Model, Version, Serial, and Position. The 'Basic Operations' section shows 'Up' and 'Down' buttons. The 'Menu' section includes 'Head Rank', 'Head Adjust', 'Linear Encoder', 'Feed Calibration', 'Test Pattern', and 'Head History'.

Step 9 / 9

Select [System] > [Firmware] > [Update] to update the firmware. When "Updating firmware has been completed" is displayed on Peck2, update is complete.

The screenshot shows the Peck2 Web 2.30 interface with the 'System' > 'Firmware' > 'Update' section selected. The 'Update' button is highlighted with a red box. The interface also shows 'System Report', 'Parameter', 'Serial Number', 'Switch', and 'Machine DateTime' sections.

BD-8 Limit position initialization

BD-8 Limit position initialization 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

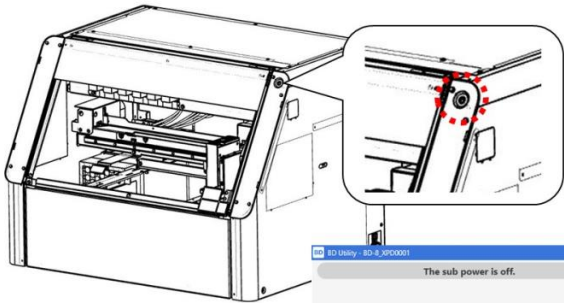
作業内容/Contents of work	時間/Time
リミット位置調整 Limit position initialization	3 min.

BD-8 Limit position initialization

BD-8 Limit position initialization Procedure

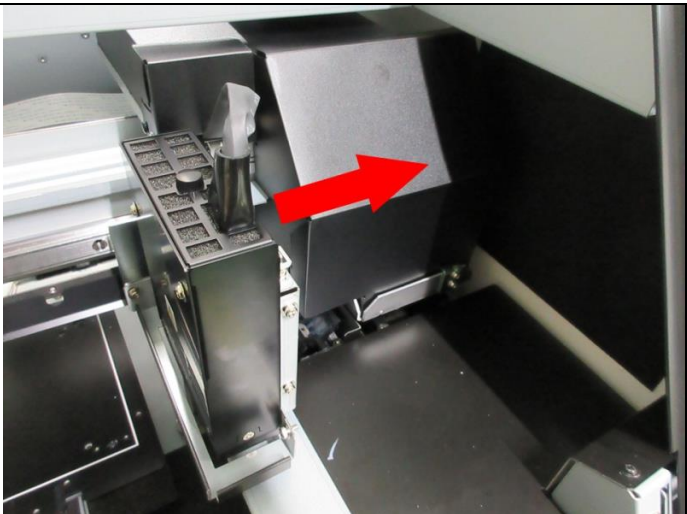
Step 1 / 7

Make sure the sub power of the machine is off.



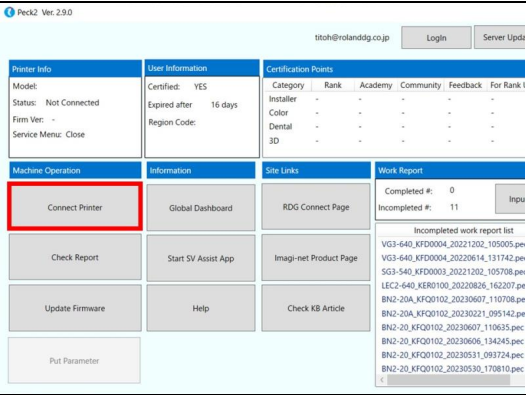
Step 2 / 7

Press the print head carriage against the rightmost side



Step 3 / 7

Connect the Peck2 to the machine and enter the service mode.



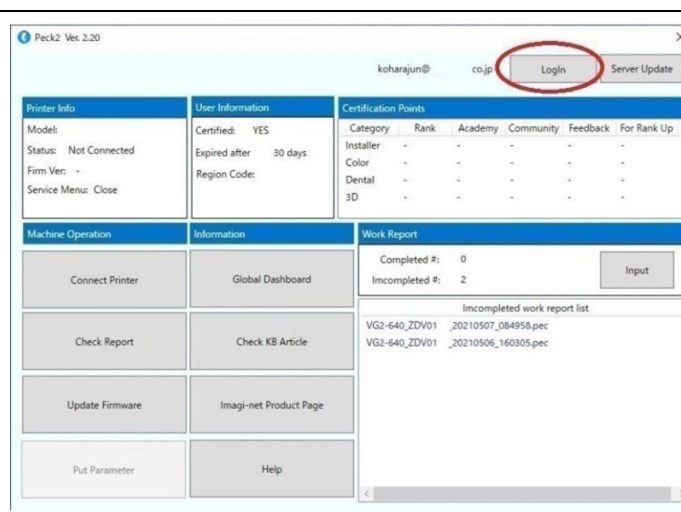
Step 4 / 7

Detail1: Start Peck2.



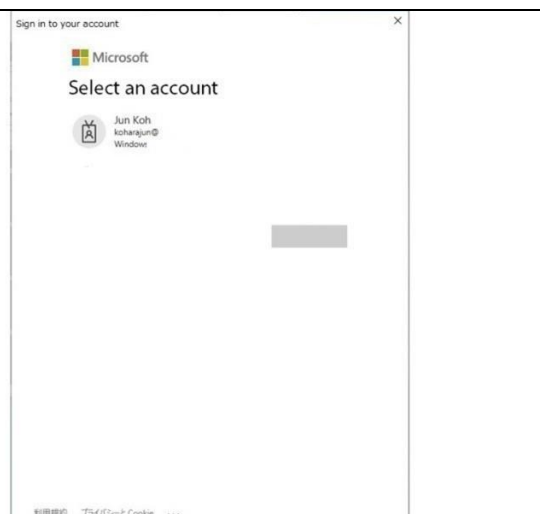
Step 5 / 7

Detail2: Click on the [Login] button.



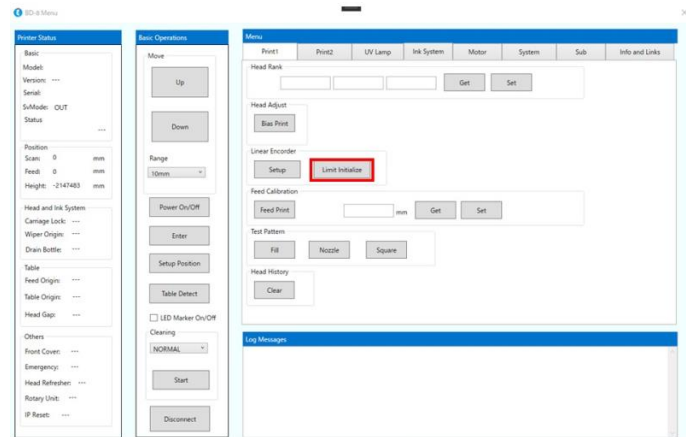
Step 6 / 7

Detail3: Log in with your Imagi-net ID.



Step 7 / 7

Select [Print1] > [Linear Encoder] > [Limit Initialize] to perform limit position initialization.



BD-8 Belt tension adjustment

BD-8 Belt tension adjustment 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 2.5mm/3.0mm Hexagonal wrench 2.5mm/3.0mm	

Step 2 / 4

Special Tools

特殊治具/Special Tools

ST-001 TENSION GAUGE 2000GF/2000CN	
1000005829 TOOL,VINYL YE UV RESISTANT ST-113	

Step 3 / 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	30 min.

Step 4 / 4

When removing the cover, use a light-shielding sheet to prevent the ink from curing.

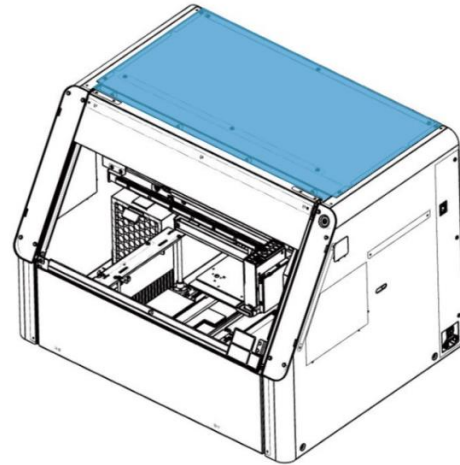


BD-8 Belt tension adjustment

BD-8 Belt tension adjustment Procedure

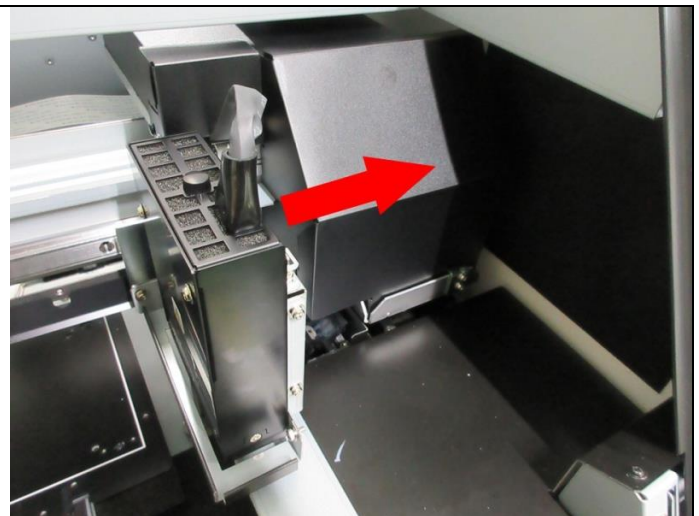
Step 1 / 11

Remove the top cover.



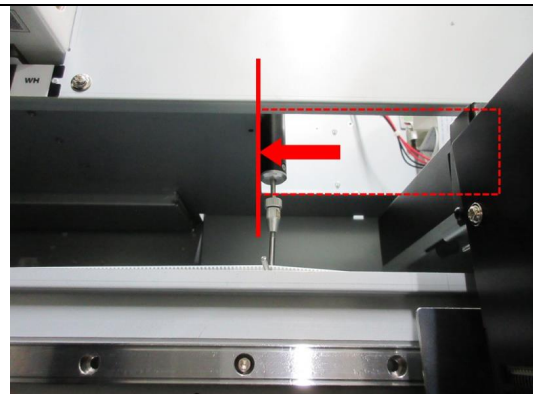
Step 2 / 11

After moving the print head carriage several times to the left and right ends of the printer, move the print head carriage to the home position and lock it.



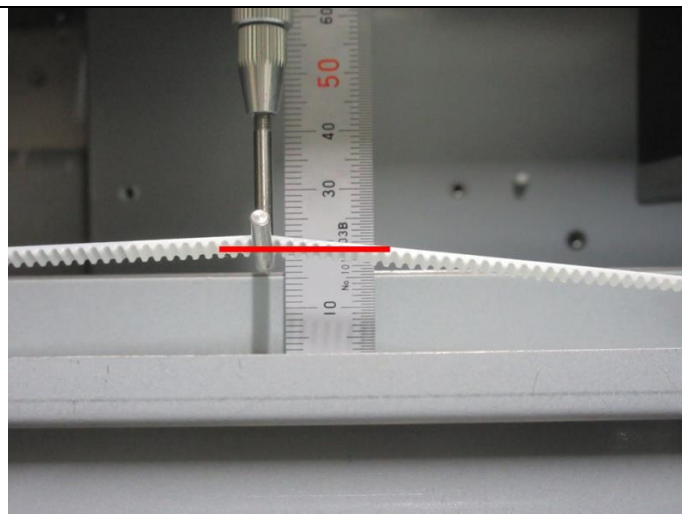
Step 3 / 11

Remove the top cover and measure the belt tension at the left end (ink cartridge side) of the square space next to the ink cartridge.



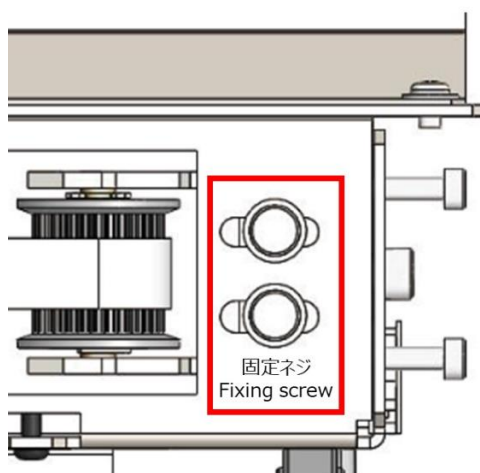
Step 4 / 11

Pull the belt tooth surface toward the upper side of the product to check if the tension value is within the proper range. *Appropriate tension value: 1.2 to 1.5 kgf *Length from the top of the RAIL: 20 mm



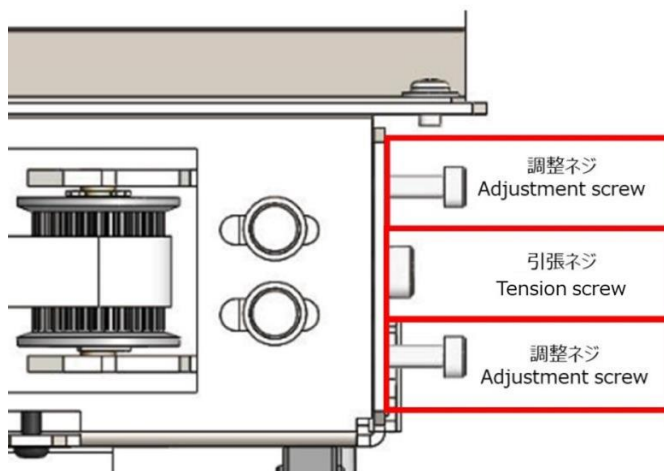
Step 5 / 11

If the measured value is outside the appropriate range, loosen the fixing screw 1/2 turn and readjust the tension.



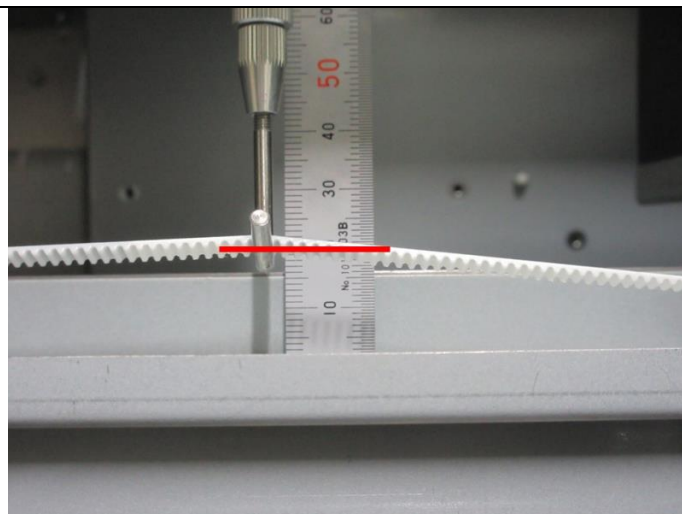
Step 6 / 11

Loosen the two adjustment screws about 3 turns and use the tension screw to adjust the tension to the appropriate value. *Appropriate tension value: 1.2 to 1.5 kgf



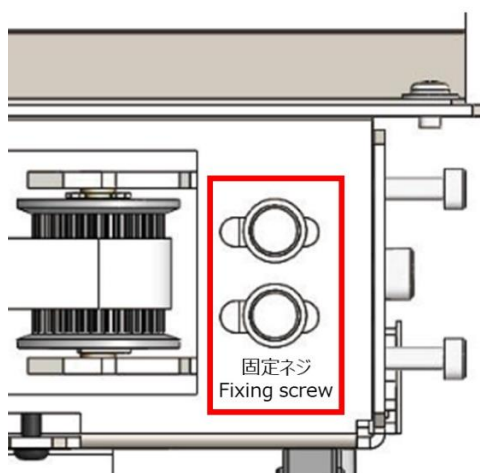
Step 7 / 11

Pull the belt tooth surface toward the upper side of the product to check if the tension value is within the proper range. *Appropriate tension value: 1.2 to 1.5 kgf *Length from the top of the RAIL: 20 mm



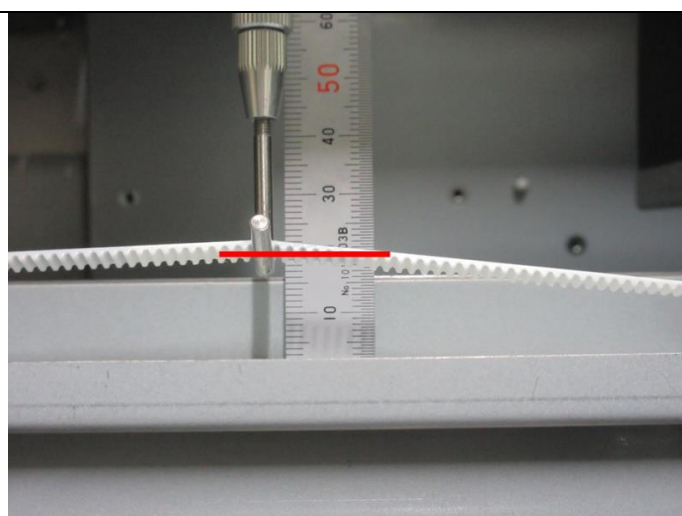
Step 8 / 11

Tighten the fixing screw when the appropriate tension value is reached.



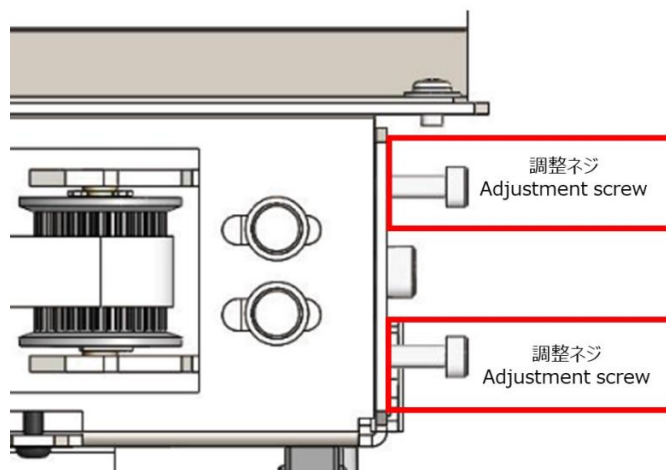
Step 9 / 11

Check again if the tension value is within the appropriate range. *
Appropriate tension value: 1.2 to 1.5 kgf
*Length from top of rail: 20 mm



Step 10 / 11

Tighten the adjustment screws. The adjustment screw should only lightly touch the idler pulley stay, and be careful not to overtighten it.



Step 11 / 11

Perform the adjustment works.



次の手順

ベルト位置調整
フラッシング位置調整
リニアエンコーダーセットアップ

Next Step

Belt position adjustment
Flushing position initialization
Linear encoder set up

BD-8 Belt position adjustment

BD-8 Belt position adjustment 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 2.5mm/3.0mm Hexagonal wrench 2.5mm/3.0mm	

Step 2 / 4

Special Tools

特殊治具/Special Tool

1000005829 TOOL,VINYL YE UV RESISTANT ST-113	
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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
ベルト位置調整 Belt position adjustment	20 min.

Step 4 / 4

When removing the cover, use a light-shielding sheet to prevent the ink from curing.

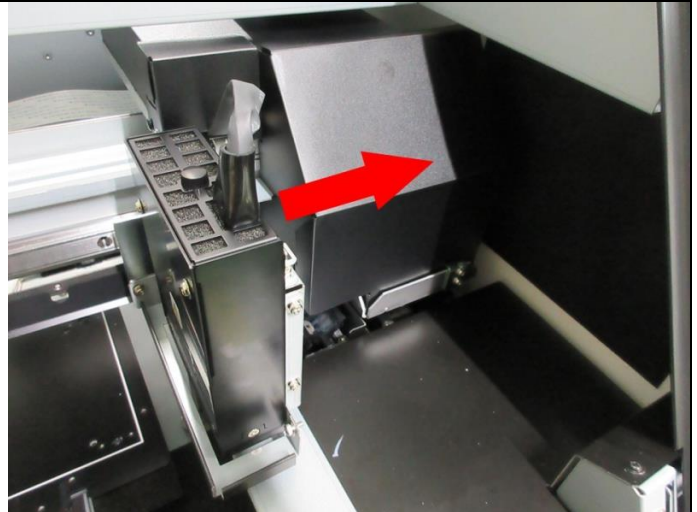


BD-8 Belt position adjustment

BD-8 Belt position adjustment Procedure

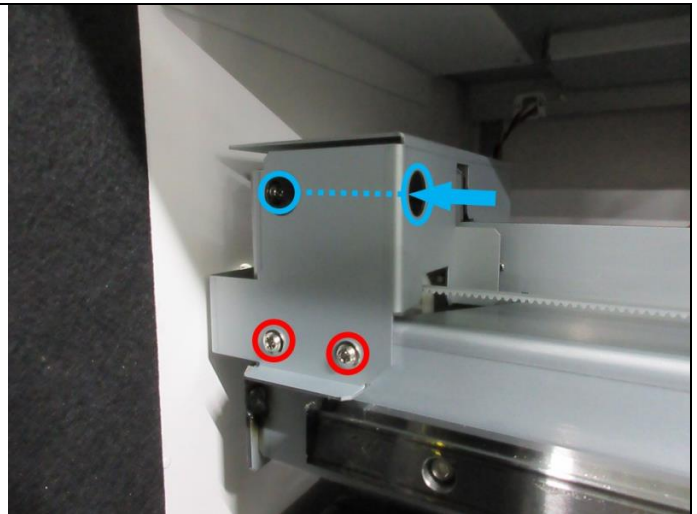
Step 1 / 15

Move the print head carriage to the home position and lock it.



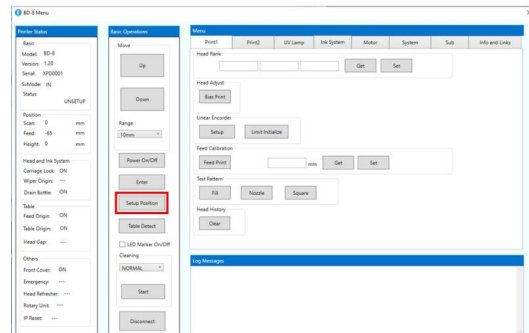
Step 2 / 15

Remove the scan motor gear cover to locate the belt.



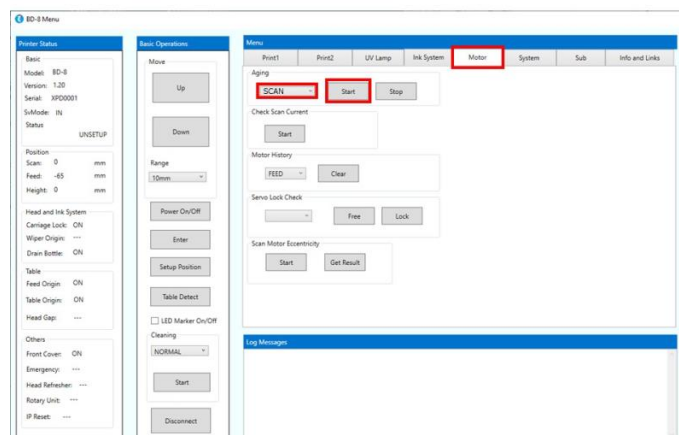
Step 3 / 15

Once Peck2 is connected, press [Setup Position] to perform setup operations. Make sure that the table and carriage have stopped moving.



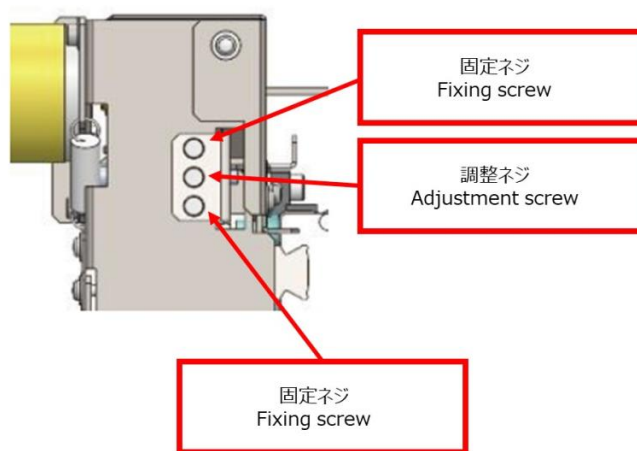
Step 4 / 15

Select [FEED] from the [Aging] pull-down menu under [Motor] and press [Start] to perform aging.



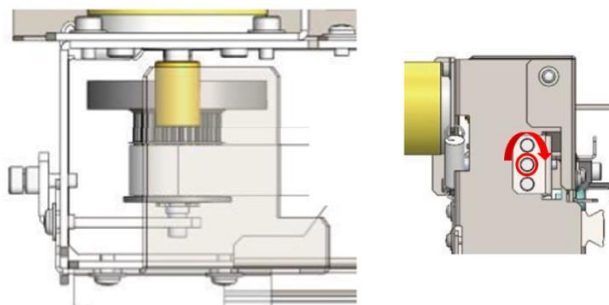
Step 5 / 15

Loosen the fixing screw and adjust the position of the belt on the motor side. Adjust the belt so that it does not touch the edge of the pulley.



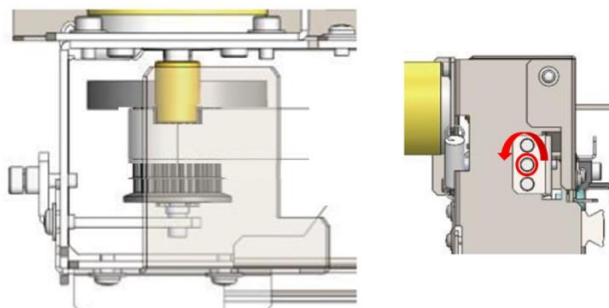
Step 6 / 15

Detail1: When the belt on the motor side is shifted to the front side, turn the adjustment screw clockwise.



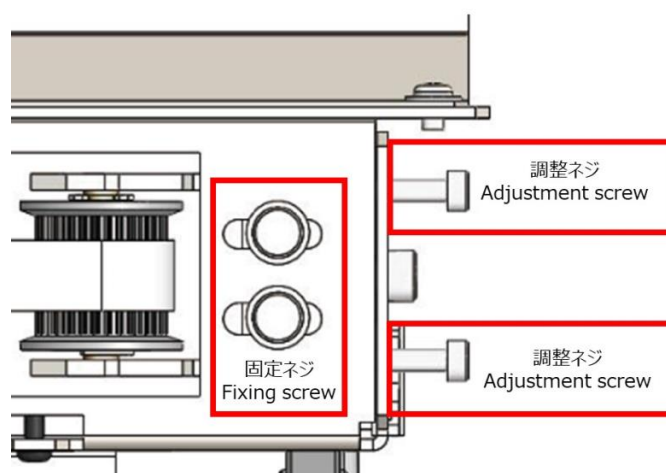
Step 7 / 15

Detail2: When the belt on the motor side is shifted to the back side, turn the adjustment screw counterclockwise.



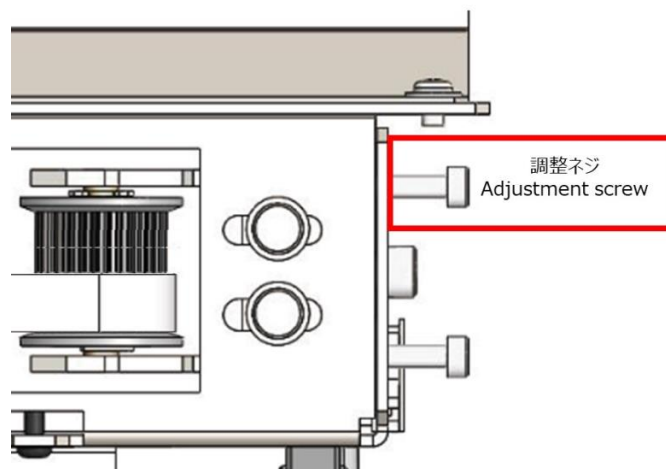
Step 8 / 15

Loosen the fixing screw 1/4 to 1/8 turn to adjust the belt on the idle pulley side.
Adjust the belt so that it does not touch the edge of the pulley.



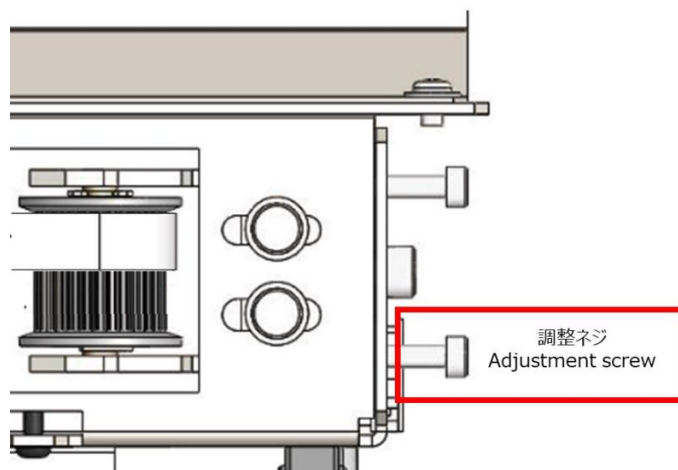
Step 9 / 15

Detail1: If the belt is shifted to the front side, tighten the adjustment screw on the back side. At this time, be careful not to hit the adjustment screw on the front side.



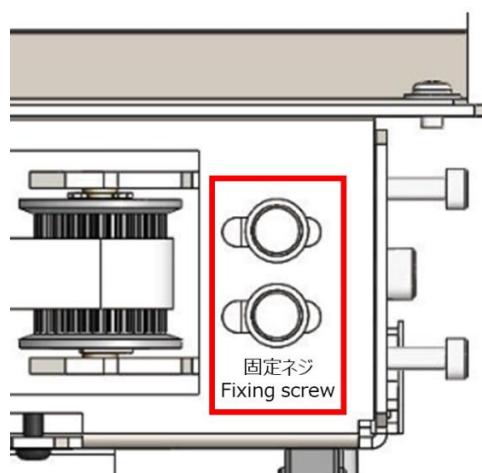
Step 10 / 15

Detail2: If the belt is shifted to the rear side, tighten the adjustment screw on the front side. At this time, be careful not to hit the adjustment screw on the back side.



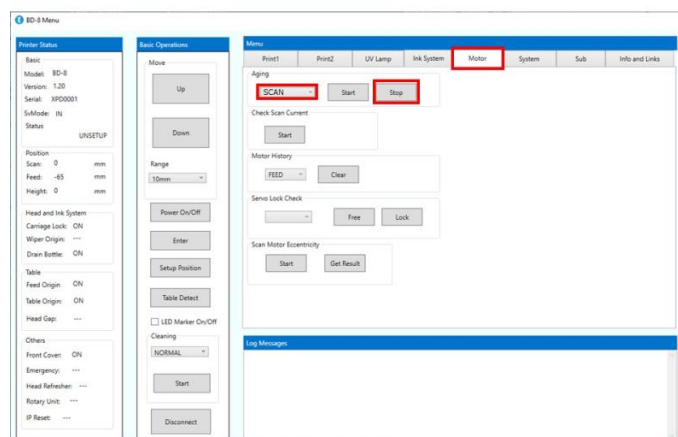
Step 11 / 15

Tighten the fixing screws.



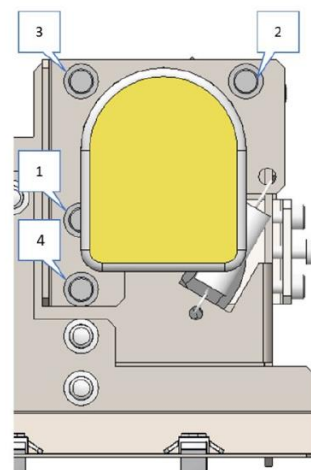
Step 12 / 15

Select [FEED] from the pull-down menu from [Aging] under [Motor] and press [Stop] to stop aging.



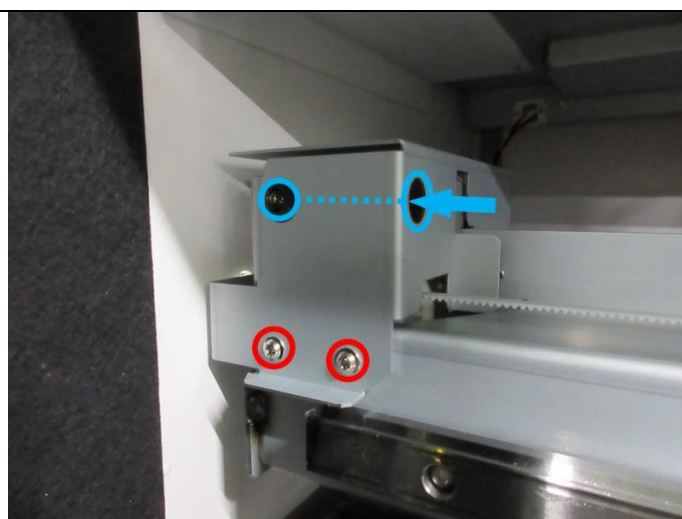
Step 13 / 15

Loosen the four screws on the scan motor and retighten them in the order shown. Then check that there is no backlash in the gear.



Step 14 / 15

Install the scan motor gear cover.



Step 15 / 15

Perform adjustment works.



次の手順

フラッシング位置調整
リニアエンコーダー位置調整

Next Step

Flushing position initialization
Linear encoder position adjustment

BD-8 Linear encoder setup

BD-8 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

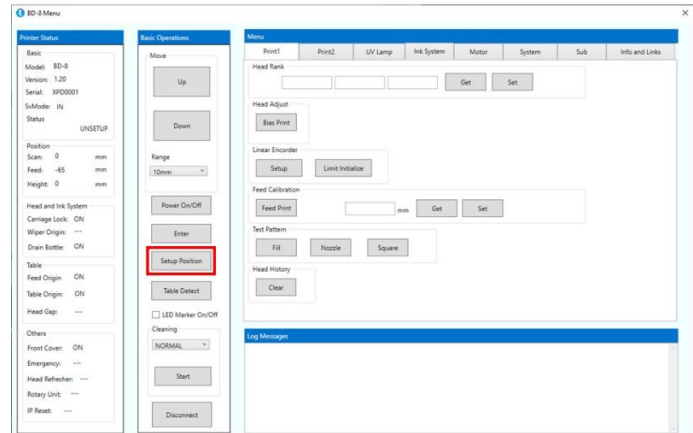
作業内容/Contents of work	時間/Time
リニアエンコーダー位置設定 Linear encoder setup	5 min.

BD-8 Linear encoder setup

BD-8 Linear encoder setup Procedure

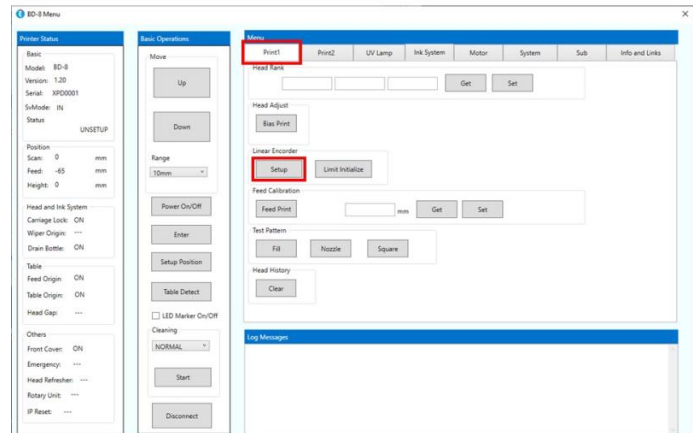
Step 1 / 4

Start SVAPP and press [Setup Position] to start setup. Make sure that the table and print head carriage have stopped moving.



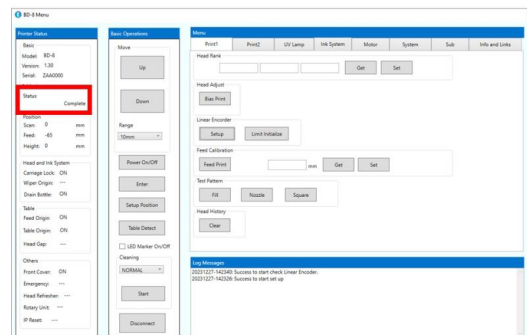
Step 2 / 4

Select [Setup] from [Linear Encoder] in [Print1] to start setup.



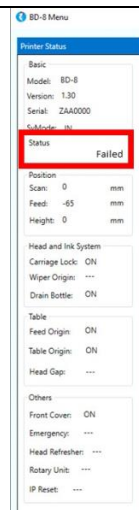
Step 3 / 4

The work is complete if [Complete] is displayed in [Status] in [Basic].



Step 4 / 4

In case of failure, [Failed] is displayed.
The cause may be in the list shown, so
remove the cause and try the setup
again.



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/breakage on the encoder sensor

エンコーダセンサーコネクタの接続不良

Bad connection of encoder sensor connector

スキャンモーターギアとドライブギアのかみ合わせ不良

Bad engagement between scan motor gear and drive gear

キャリッジとベルトの固定不良

Improper fixation of carriage and belt

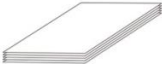
BD-8 Feed calibration

BD-8 Feed calibration Information

Step 1 / 2

Necessary tools

一般ツール/General Tool

メディア Media	
スケール Scale	

Step 2 / 2

Typical work time

作業時間/Typical work time

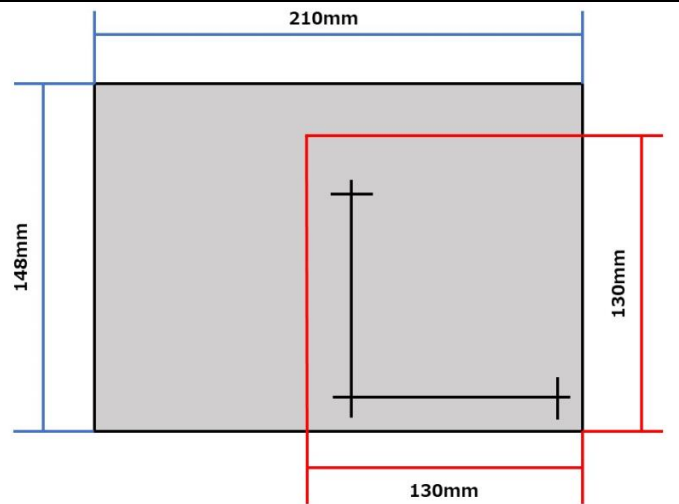
作業内容/Contents of work	時間/Time
距離補正 Feed Calibration	10 min.

BD-8 Feed calibration

BD-8 Feed calibration Procedure

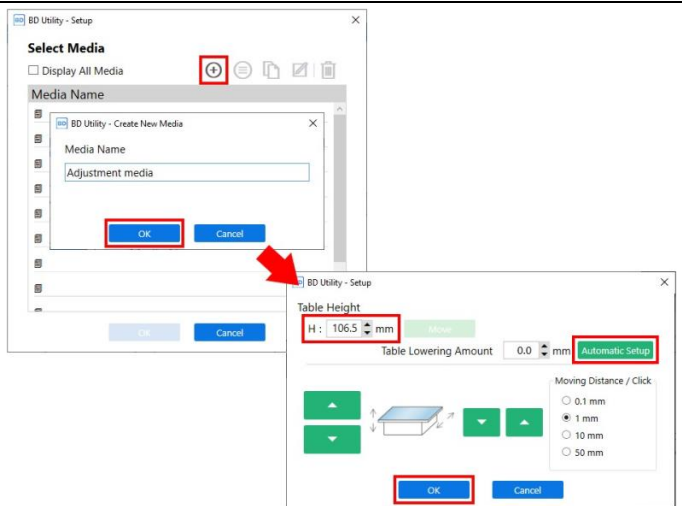
Step 1 / 7

For Feed calibration, printing of approximately 120 mm x 120 mm is performed, so set up the print area at least 130 mm x 130 mm from the print origin.



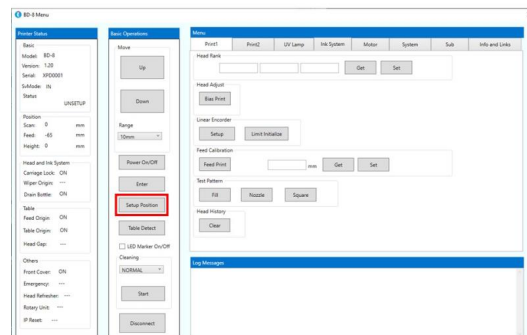
Step 2 / 7

Start the BD Utility, register the media used for adjustment as new media, perform setup, and then turn off the secondary power. The setup on Peck2 automatically applies the last used preset (table height, printing zone) in Utility.



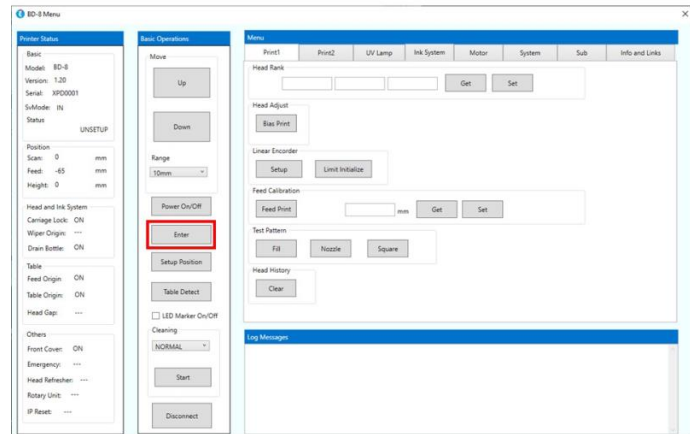
Step 3 / 7

Once Peck2 is connected, press [Setup Position] to perform setup operations. Make sure that the table and carriage have stopped moving.



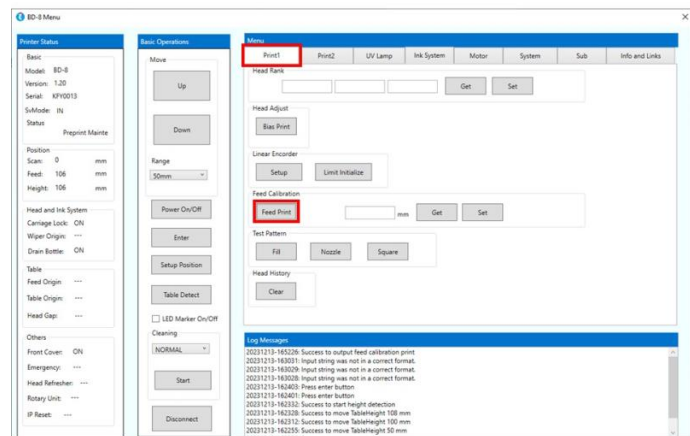
Step 4 / 7

When you press [Enter], the table will automatically move to the height set on the Utility and setup will be completed.



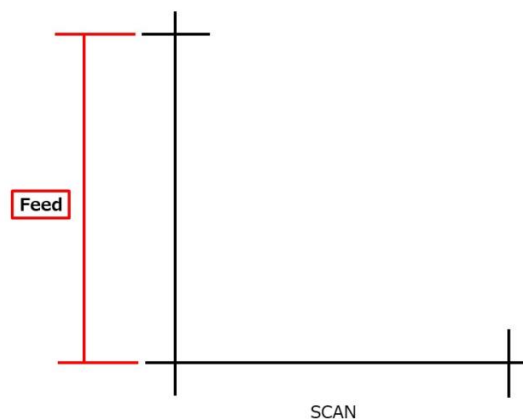
Step 5 / 7

Select [Feed Print] under [Feed Calibration] in [Print1] tab and start printing.



Step 6 / 7

Measure the value in the feed direction of the printed test pattern.



Step 7 / 7

Enter the measured value and press [Set].

The screenshot displays the ED-3 Menu interface, which is divided into several sections. On the left, the 'Printer Status' section shows basic information: Model: ED-3, Version: 1.20, Serial: KFY0013, SubMode: (N), and Status: READY. Below this, the 'Position' section shows Scan: 0 mm, Feed: 431 mm, and Height: 106 mm. The 'Head and Ink System' section includes Carriage Lock: ON, Wiper Origin: ---, and Dryer Bottle: ON. The 'Table' section shows Feed Origin: ---, Table Origin: ---, and Head Gap: ---. The 'Others' section shows Front Cover: ON, Emergency: ---, Head Refresher: ---, Rotary Unit: ---, and IP Reset: ---. The 'Basic Operations' section contains buttons for Move (Up, Down), Range (50mm), Power On/Off, Enter, Setup Position, Table Detect, LED Marker On/Off, Cleaning (NORMAL), Start, and Disconnect. The main 'Menu' section is currently on the 'Feed' tab, which is highlighted with a red box. It contains a 'Feed Point' input field with a red box around it, and a 'Set' button with a red box around it. The 'Feed Point' field displays the value '99.8'. Below the 'Feed Point' field, there are buttons for 'Feed Point', 'Get', and 'Set'. The 'Test Pattern' section includes buttons for 'Fill', 'Nozzle', and 'Square'. The 'Head History' section has a 'Clear' button. At the bottom, the 'Log Messages' section displays a list of system logs, including messages about factory print calls correction, output feed calibration point, input string not in a correct format, and press enter button.

BD-8 Flushing position adjustment

BD-8 Flushing position adjustment

Information

Step 1 / 3

Necessary Tools

一般ツール/General Tool

無し/None

特殊治具/Special Tools

無し/None

Step 2 / 3

Typical Work Time

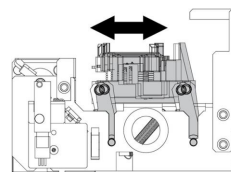
作業時間/Typical work time

作業内容/Contents of work	時間/Time
フラッシング位置調整 Flushing position adjustment	3 min.

Step 3 / 3

Outline diagram

概要図/Outline Diagram



BD-8 Flushing position adjustment

BD-8 Flushing position adjustment

Procedure

Step 1 / 10

Connect Peck2 to the machine and enter service mode.

Peck2 Ver. 2.9.0

titoh@rolanddg.co.jp

Login

Server Upd

Printer Info

Model:

Status: Not Connected

Firm Ver: -

Service Menu: Close

User Information

Certified: YES

Expired after: 16 days

Region Code:

Certification Points

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

Machine Operation

Connect Printer

Check Report

Update Firmware

Put Parameter

Information

Global Dashboard

Start SV Assist App

Help

Site Links

RDG Connect Page

Imagi-net Product Page

Check KB Article

Work Report

Completed #: 0

Incompleted #: 11

Input

Incompleted work report list

VG3-640_KFD0004_20221202_105005.pe

VG3-640_KFD0004_20220614_131742.pe

SG3-540_KFD0003_20221202_105708.pe

LEC2-640_KER0100_20220826_162207.pe

BN2-20A_KFQ0102_20230607_110708.pe

BN2-20A_KFQ0102_20230221_095142.pe

BN2-20_KFQ0102_20230607_110635.pe

BN2-20_KFQ0102_20230606_134245.pe

BN2-20_KFQ0102_20230531_093724.pe

BN2-20_KFQ0102_20230530_170810.pe

Step 2 / 10

Detail1: Start Peck2.



Peck2

Ver. X.XX

Imagine. Roland

Step 3 / 10

Detail2: Click on the [Login] button.

Peck2 Ver. 2.9.0

titoh@rolanddg.co.jp

Login

Server Upd

Printer Info

Model:

Status: Not Connected

Firm Ver: -

Service Menu: Close

User Information

Certified: YES

Expired after: 16 days

Region Code:

Certification Points

Category	Rank	Academy	Community	Feedback	For Rank
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

Incompleted #: 2

Input

Incompleted work report list

VG3-640_2D001_20210107_084918.pe

VG3-640_2D001_20210106_165010.pe

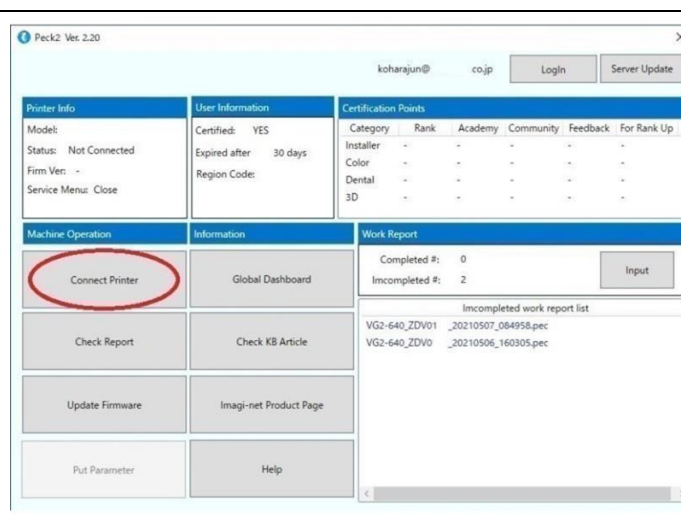
Step 4 / 10

Detail3: Login with your Imagi-net ID.



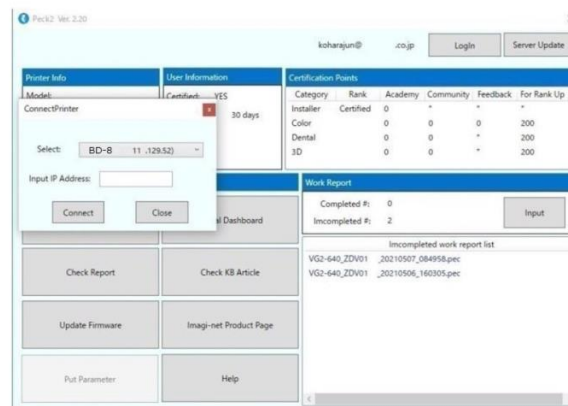
Step 5 / 10

Detail4: Click the [Connect Printer] button.



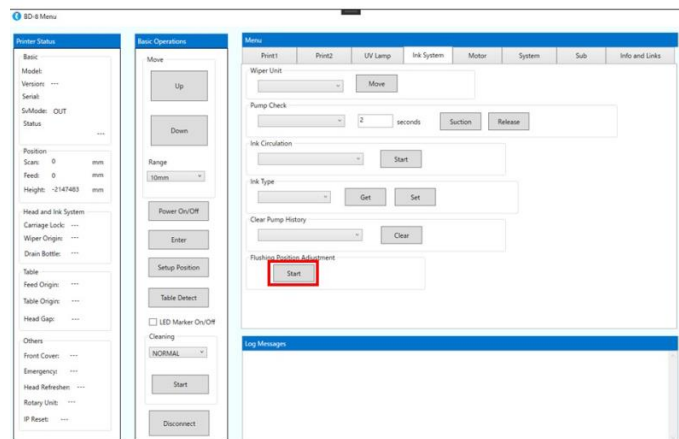
Step 6 / 10

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



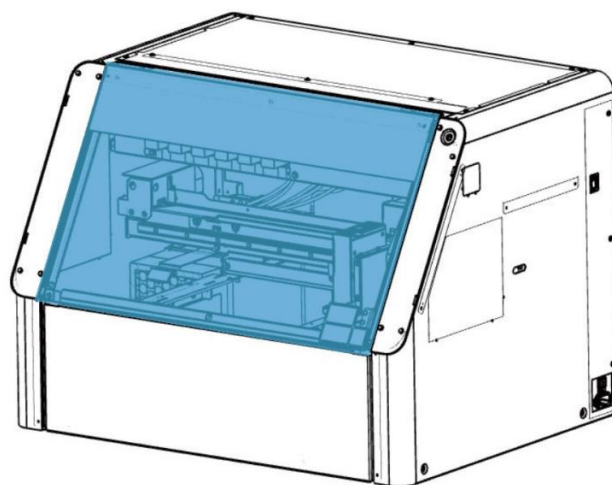
Step 7 / 10

Press [Ink System] > [Flushing Position Adjustment] > [Start] to move the print head to the current flushing position.



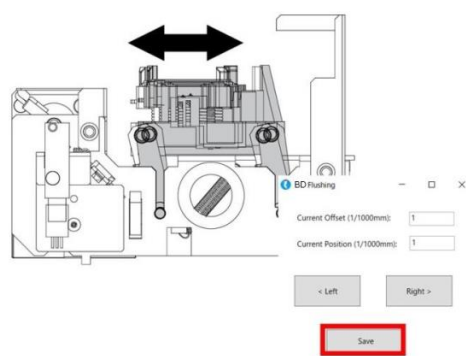
Step 8 / 10

Open the front cover.



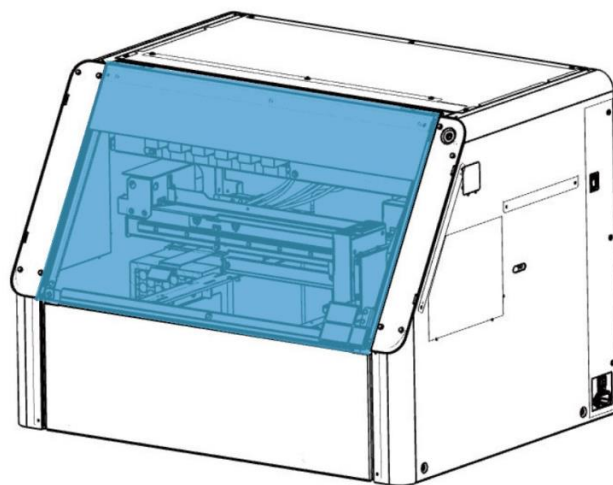
Step 9 / 10

Click [< Left], [Right >] to move the print head and set the position where the print head cap lifts using the [Save] button.



Step 10 / 10

Close the front cover.



BD-8 UV lamp height adjustment

BD-8 UV lamp height adjustment

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 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)	

Step 2 / 4

Special Tools

特殊治具/Special Tool

シツクネスゲージ Thickness gauge	
1000005829 TOOL,VINYL YE UV RESISTANT ST-113	
ST-056 TORQUE DRIVER N6	

Step 3 / 4

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
UVランプ高の調整 UV lamp height adjustment	10 min.

Step 4 / 4

When removing the cover, use a light-shielding sheet to prevent the ink from curing.

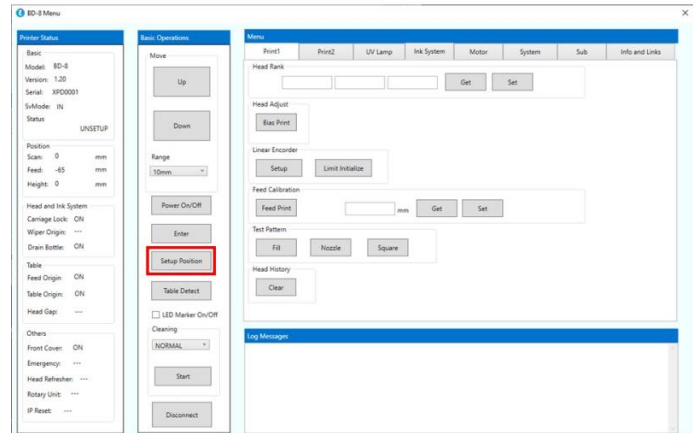


BD-8 UV lamp height adjustment

BD-8 UV lamp height adjustment Procedure

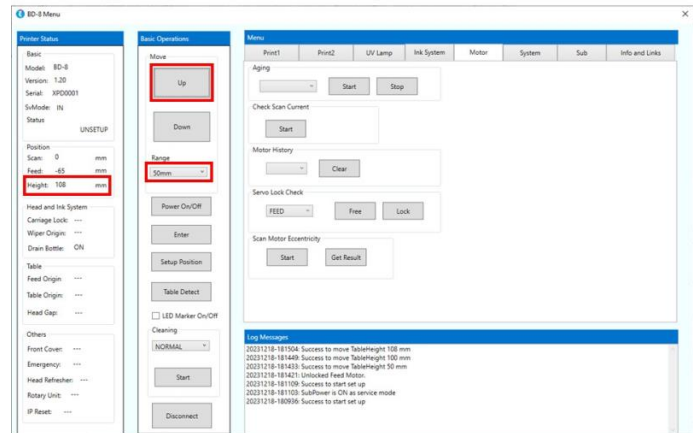
Step 1 / 10

Start Peck2 and press [Setup Position] to start setup. Make sure that the table and print head carriage have stopped moving.



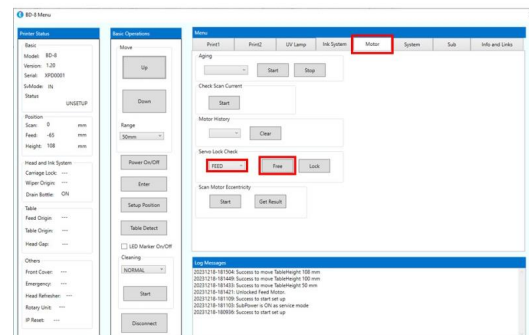
Step 2 / 10

Select 50 mm from the [Range] pulldown and press [Up] three times to raise the table to the highest level (108 mm). *Do not press the button repeatedly; wait until the table has stopped moving before pressing it.



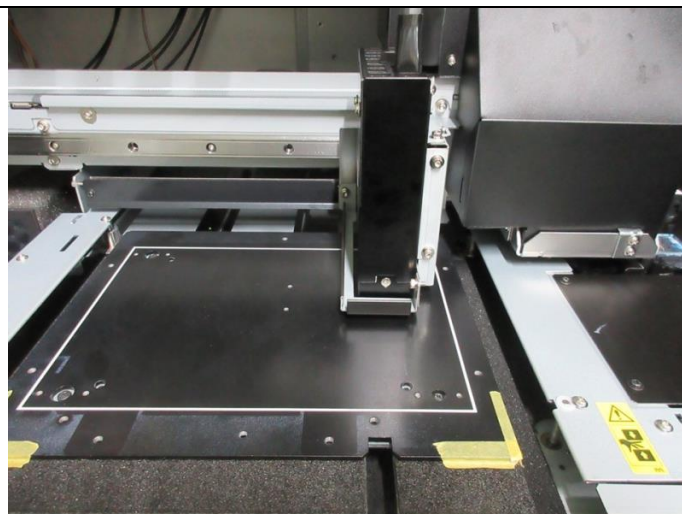
Step 3 / 10

Select [FEED] /[SCAN] from the pull-down menu from [Servo Lock Check] in [Motor] and press [Free] to release each lock.



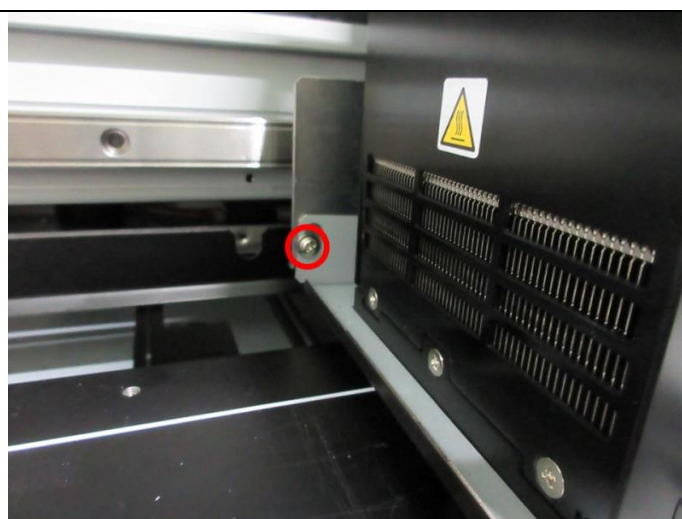
Step 4 / 10

Detail1: Table and print head carriage position



Step 5 / 10

Loosen the screw (1 location) that secures the UV reflection light suppression plate.



Step 6 / 10

Loosen the screws that secure the UV lamp plate. Please be careful as the UV lamp will fall if you loosen all the screws completely (4 locations). *Do not remove the screws.

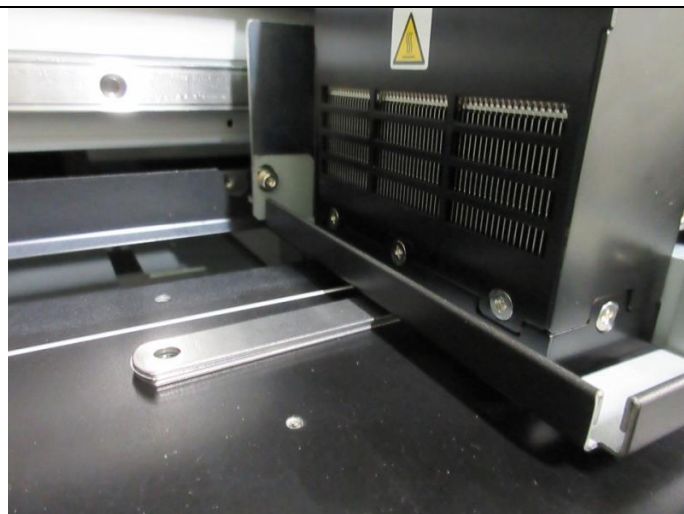
前面/Front side

背面/Back side



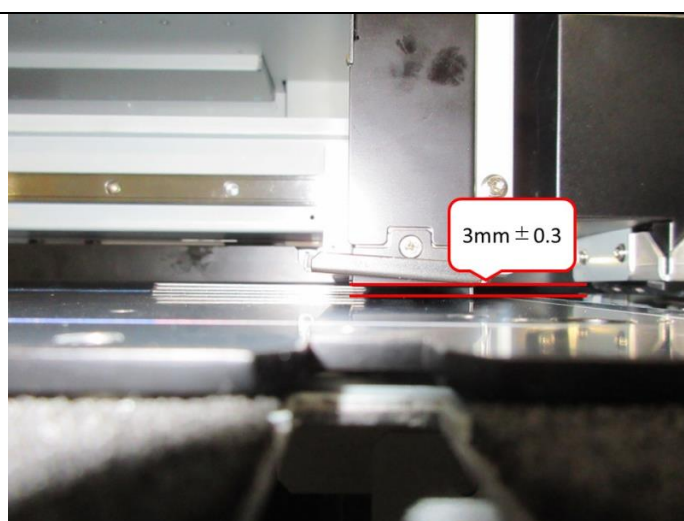
Step 7 / 10

Insert the thickness gauge (3 mm) from the UV lamp exhaust port side. At this time, if it comes into contact with the UV lamp reflection light suppression plate, readjust the installation position.



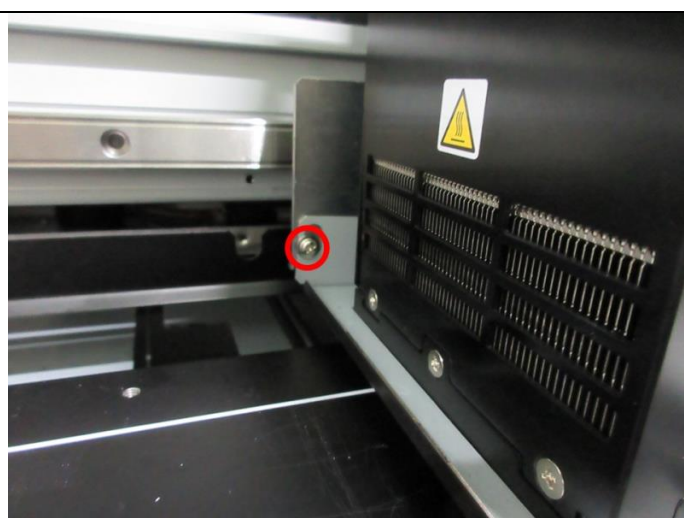
Step 8 / 10

Adjust the height so that the $3\text{ mm} \pm 0.3$ thickness gauge fits on the left side of the table and UV lamp lens frame.



Step 9 / 10

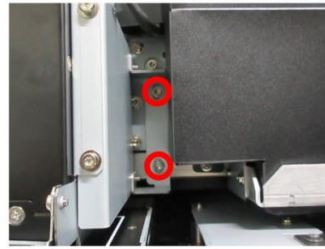
Tighten the loosened screw (1 location) that secures the UV reflection light suppression plate.



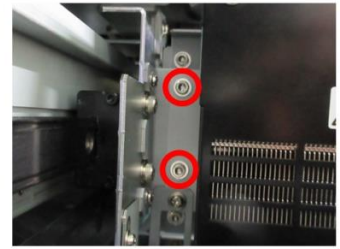
Step 10 / 10

Tighten the loosened screws that secure the UV lamp plate. Be sure to maintain the adjusted UV lamp height when fixing.

前面/Front side



背面/Back side



BD-8 UV lamp illuminance measurement

BD-8 UV lamp illuminance measurement Information

Step 1 / 7

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

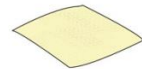


Step 2 / 7

Special Tools

特殊治具/Special Tool

1000005829
TOOL,VINYL YE UV RESISTANT ST-113



Step 3 / 7

Special Tools

特殊治具/Special Tools

1000021605
SET,PWR-M C6080-385-NFE15348-01 SV

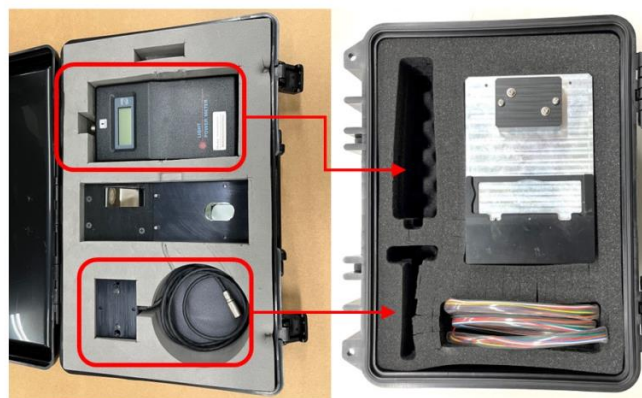


6000005895
SET,PWR-M C6080-385-NF SV CG2162



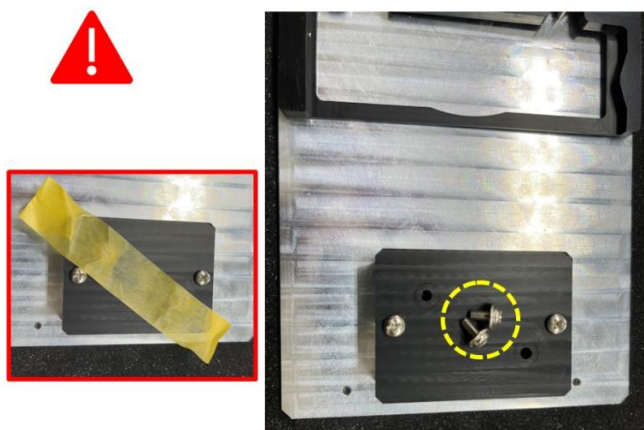
Step 4 / 7

Detail1: You can transfer the illuminance measuring device into the measurement jig case and carry them all together. The jig for LEF model included with the illuminance meter is not used.



Step 5 / 7

Detail2: Be careful not to lose the screws that attach the light receiver.



Step 6 / 7

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
UVランプ照度測定 UV lamp illuminance measurement	30 min.

Step 7 / 7

When removing the cover, use a light-shielding sheet to prevent the ink from curing.



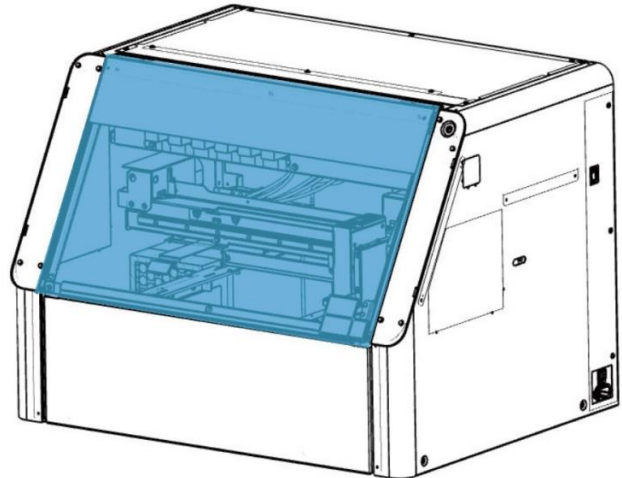
BD-8 UV lamp illuminance measurement

BD-8 UV lamp illuminance measurement

Procedure

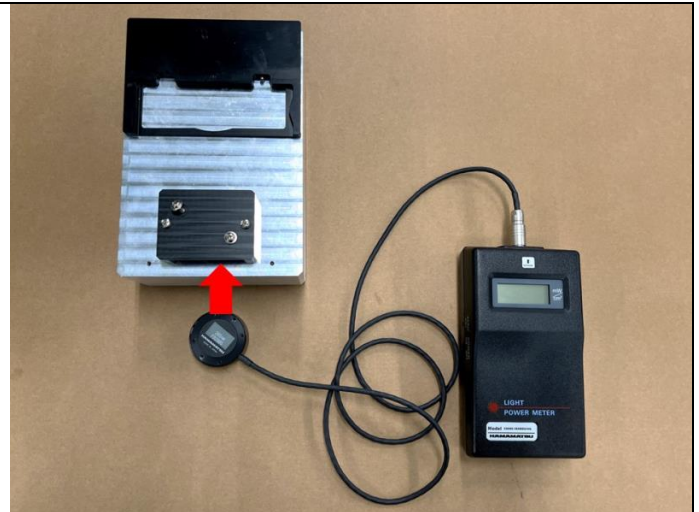
Step 1 / 25

Open the front cover.



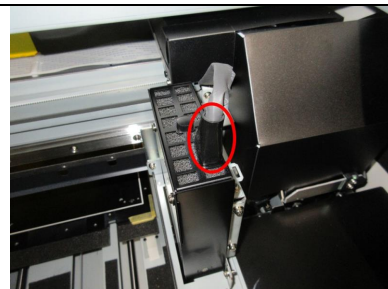
Step 2 / 25

Attach the light receiving part of the illuminance meter to the measurement jig.



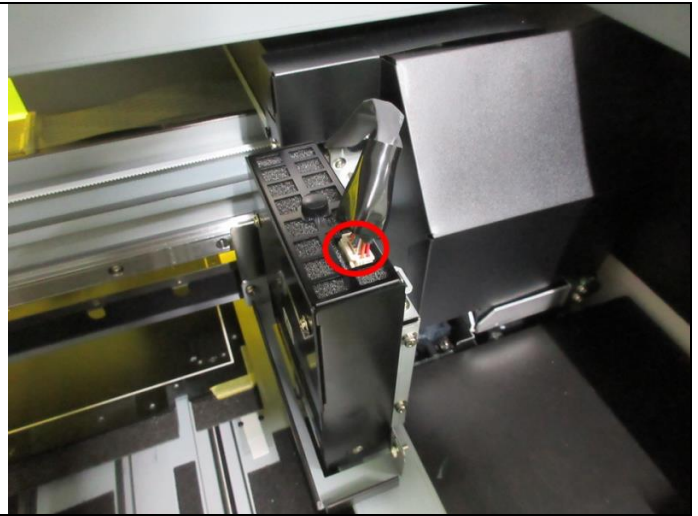
Step 3 / 25

Remove the UV lamp connector cover.



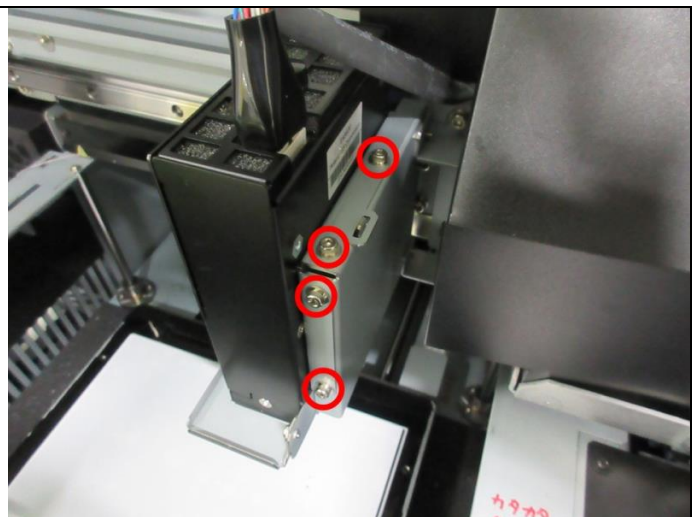
Step 4 / 25

Remove the UV lamp connector.



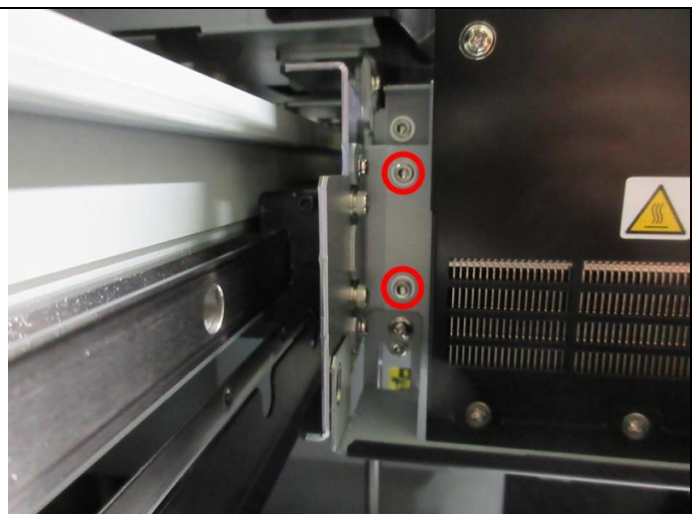
Step 5 / 25

Remove the screws (7 locations) and remove the UV lamp together with the UV lamp plate.



Step 6 / 25

Detail1: Screw to be removed (2 places)



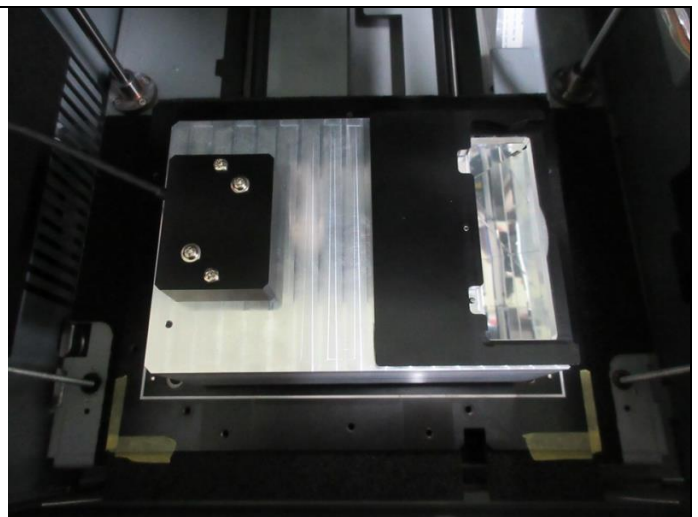
Step 7 / 25

Detail2: Screw to be removed (1 place)



Step 8 / 25

Pull out the table and place the measuring jig on the table.



Step 9 / 25

Place the display of the illuminance meter somewhere outside of the machine.



Step 10 / 25

By letting the cable of the measuring device out through the gap in the maintenance cover, it can be pulled out without coming into contact with the front cover.



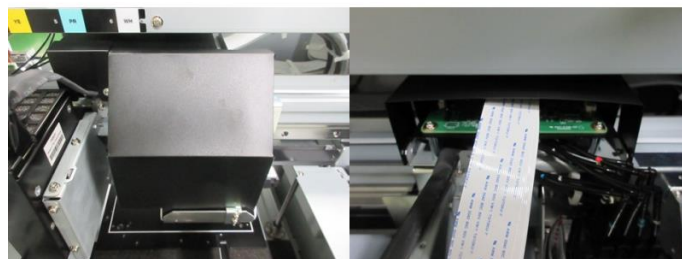
Step 11 / 25

Remove the screws (2 places) that secure the UV reflection light suppression plate and remove the UV reflected light suppression plate. Be sure to remove only the UV reflection light suppression plate and do not remove the UV lamp plate. If you remove the UV lamp plate, you will need to adjust the UV lamp height after work.



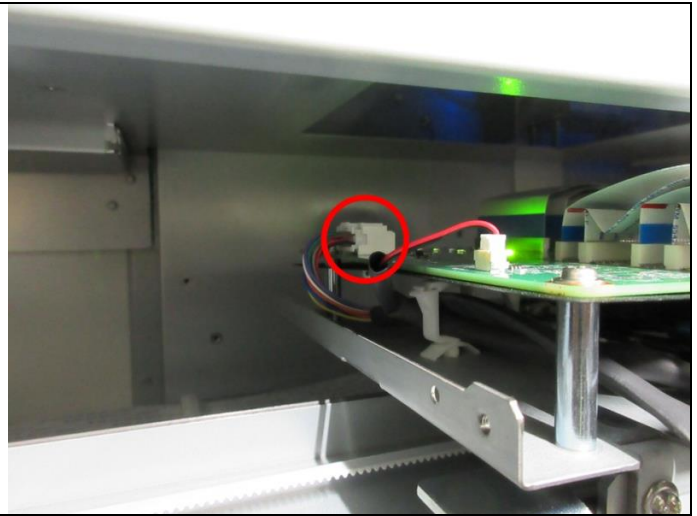
Step 12 / 25

Remove the print carriage cover and print carriage board cover.



Step 13 / 25

Remove the UV lamp connector connected to the print carriage board.



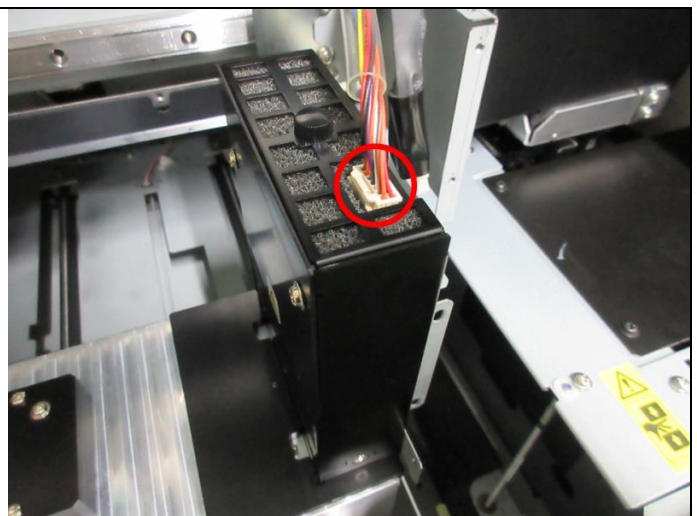
Step 14 / 25

Attach the measuring jig cable to the print carriage board.



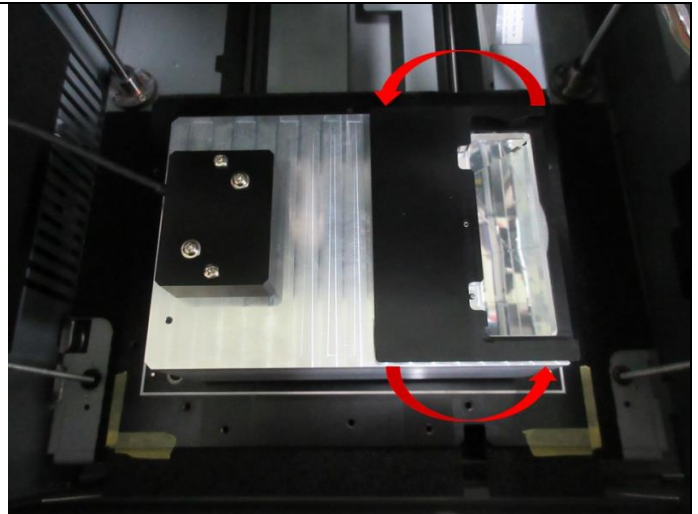
Step 15 / 25

Attach the measuring jig cable to the UV lamp.



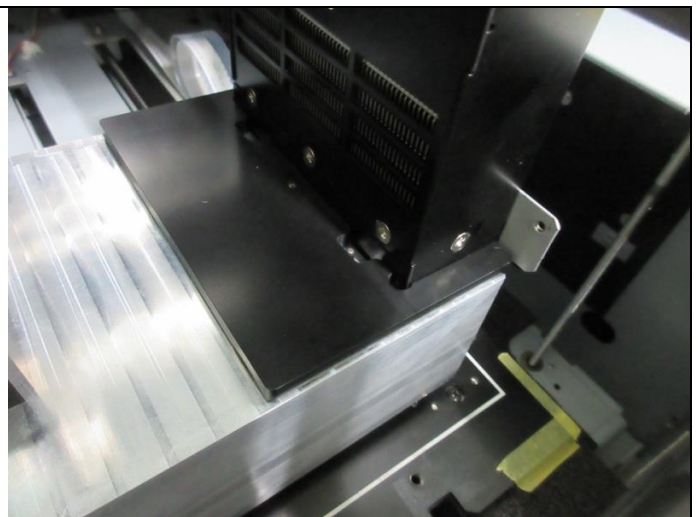
Step 16 / 25

Rotate the measuring jig cover 180°.



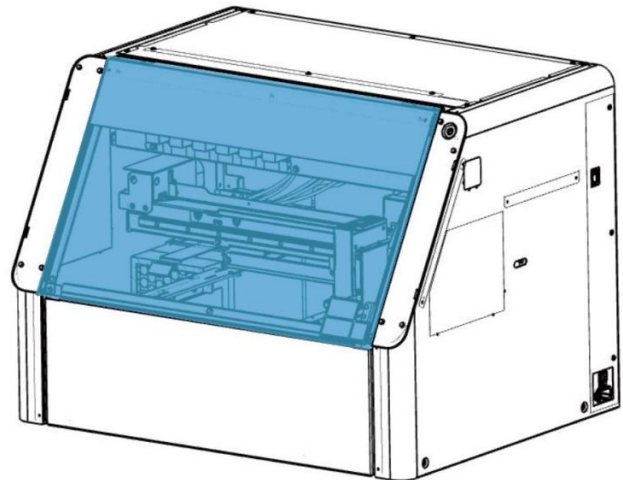
Step 17 / 25

Make sure the UV lamp is not lifted.



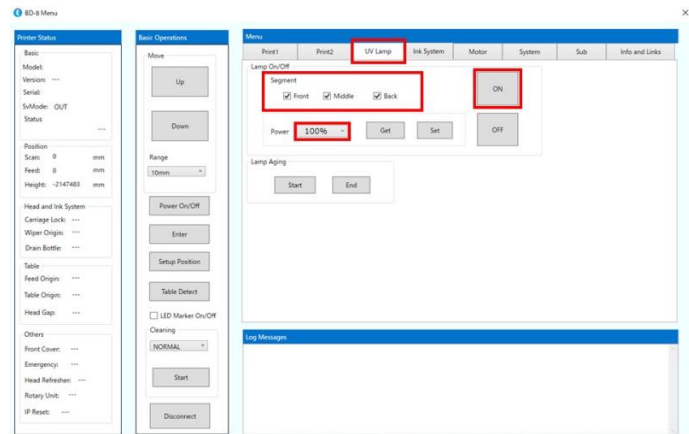
Step 18 / 25

Close the front cover.



Step 19 / 25

Start Peck2, select all irradiation segments from [Segment] under [Lamp On/Off] in [UV Lamp], select [100%] from the pulldown from [Power], and press [ON].



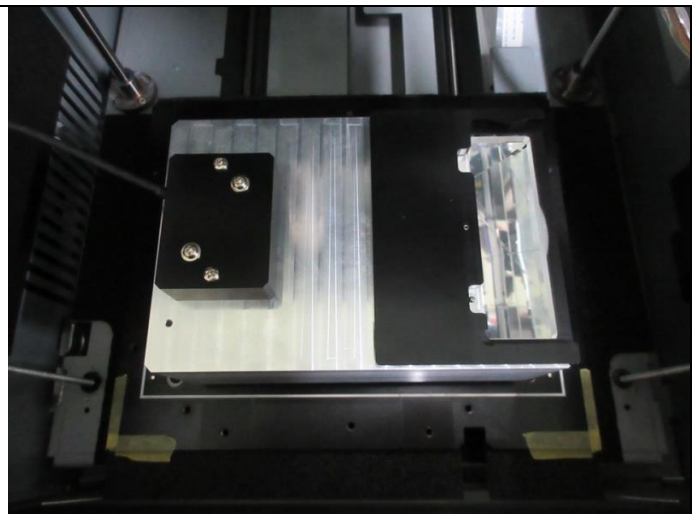
Step 20 / 25

Verify that the value displayed on the illuminance meter is at the proper threshold. (Proper threshold: 268 mw/cm2 or greater)



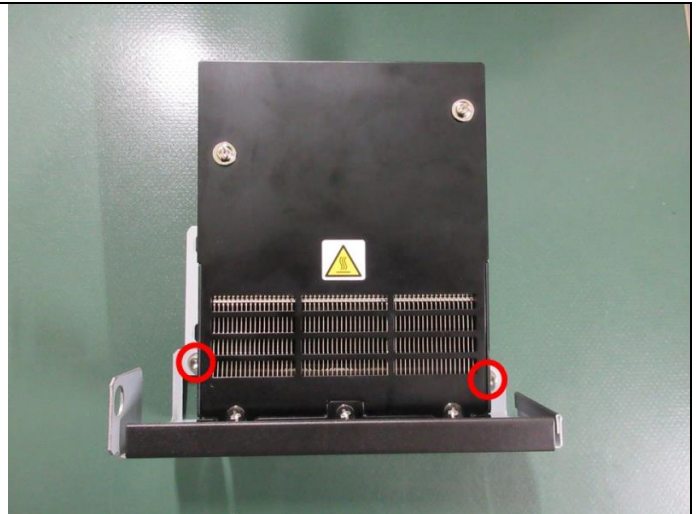
Step 21 / 25

Once the measurement is complete, remove all measuring equipment.



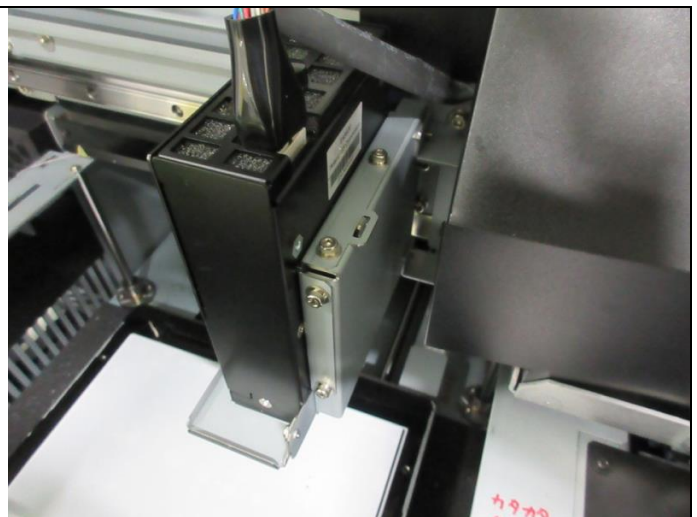
Step 22 / 25

Remove the measurement cable from the UV lamp and attach the UV reflection light suppression plate.



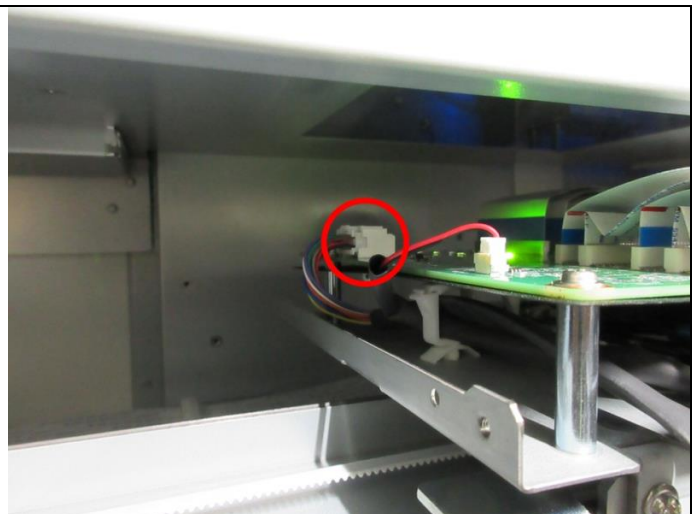
Step 23 / 25

Attach the UV lamp, and attach the UV lamp connector and connector cover.



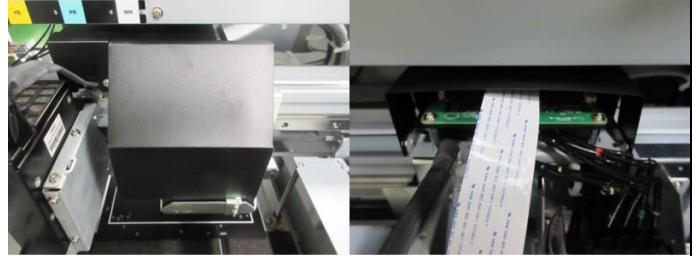
Step 24 / 25

Replace the measurement cable and UV lamp connector connected to the print carriage board.



Step 25 / 25

Install the print carriage cover and print carriage board cover.



BD-8 LED pointer adjustment

BD-8 LED pointer adjustment Information

Step 1 / 2

Necessary Tools

一般ツール/General Tool

メディア (指定なし)
Media (Unspecified)

Step 2 / 2

Typical Work Time

作業時間/Typical work time

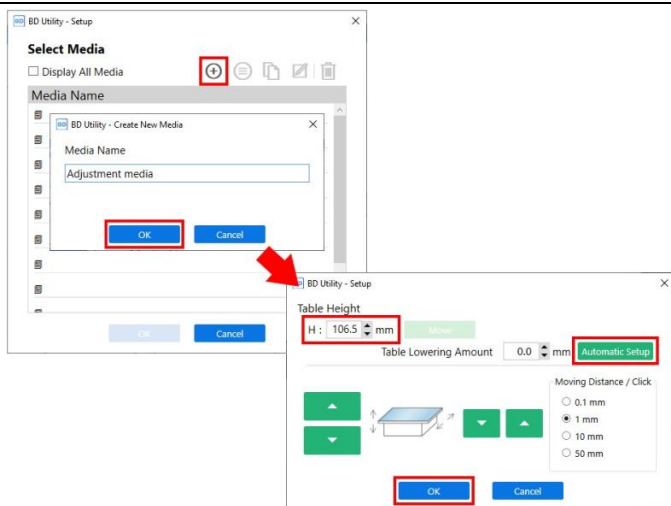
作業内容/Contents of work	時間/Time
LEDポインター調整 LED Pointer adjustment	5 min.

BD-8 LED pointer adjustment

BD-8 LED pointer adjustment Procedure

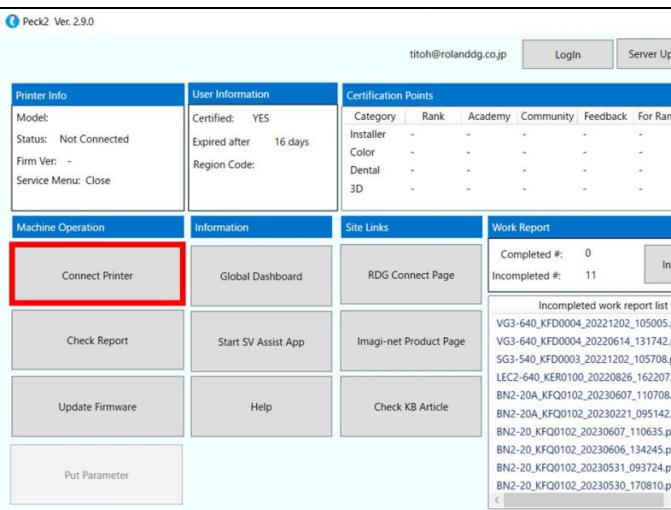
Step 1 / 13

Start the BD Utility, register the media used for adjustment as new media, perform setup, and then turn off the secondary power. The setup on Peck2 automatically applies the last used preset (table height, printing zone) in Utility.



Step 2 / 13

Connect Peck2 to the machine and enter Service Mode.



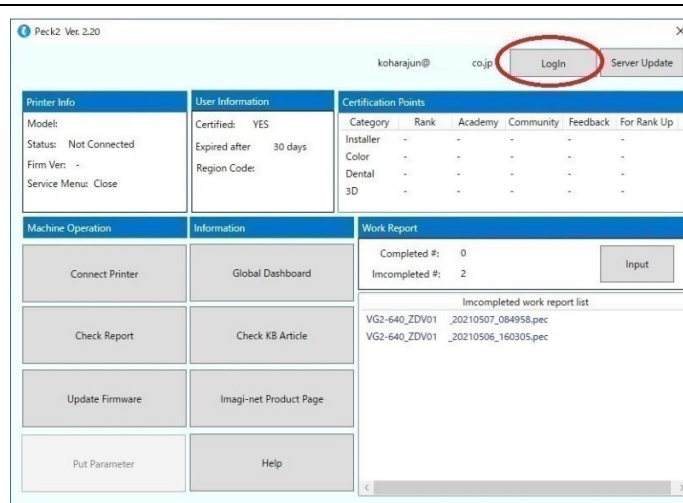
Step 3 / 13

Detail1: Start Peck2.



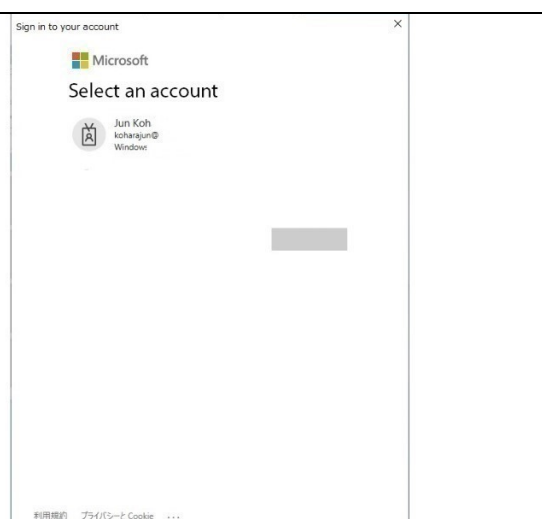
Step 4 / 13

Detail2: Click on the [Login] button.



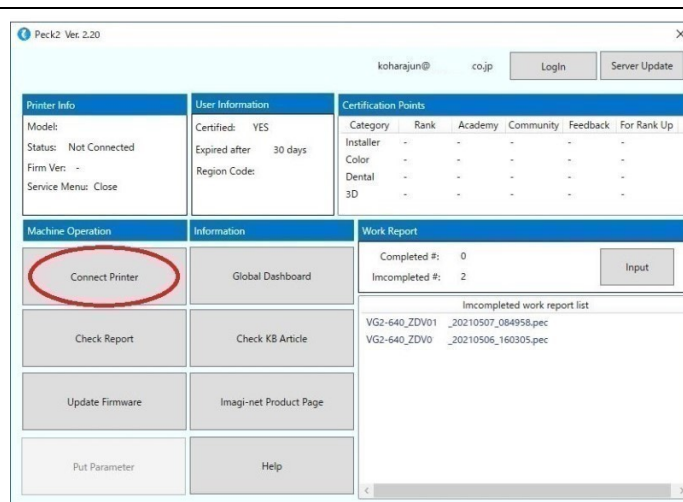
Step 5 / 13

Detail3: Login with your Imagi-net ID.



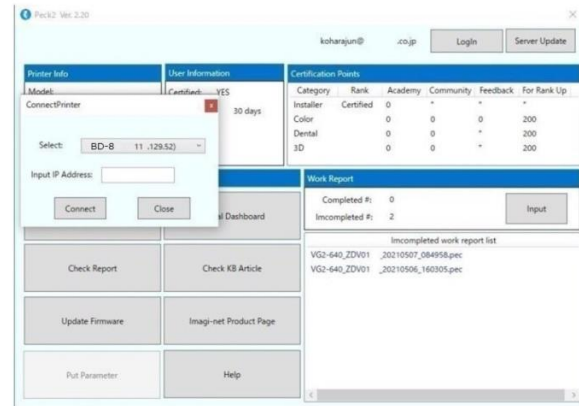
Step 6 / 13

Detail4: Click the [Connect Printer] button.



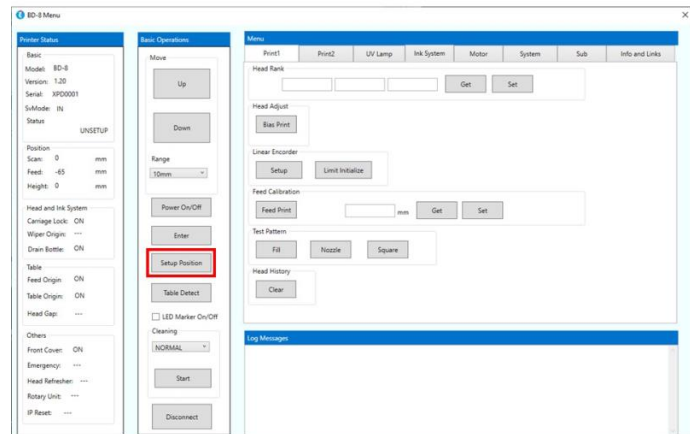
Step 7 / 13

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



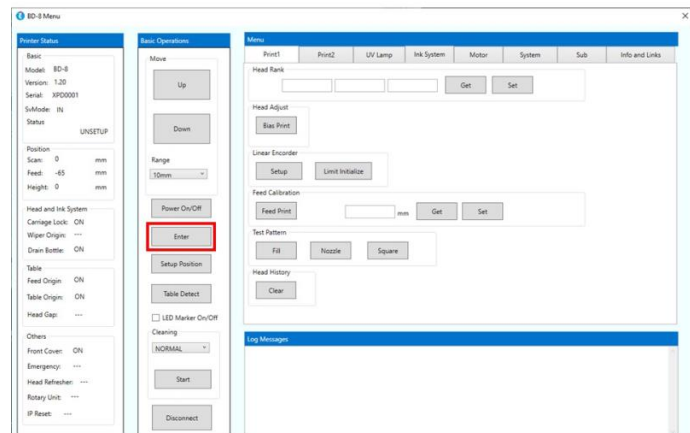
Step 8 / 13

Once Peck2 is connected, press [Setup Position] to perform setup operations. Make sure that the table and carriage have stopped moving.



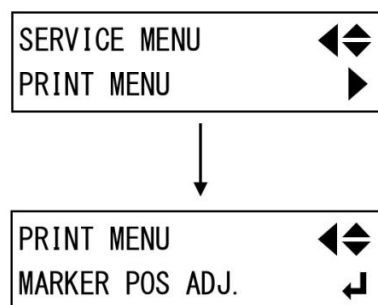
Step 9 / 13

When you press [Enter], the table will automatically move to the height set on the Utility and setup will be completed.



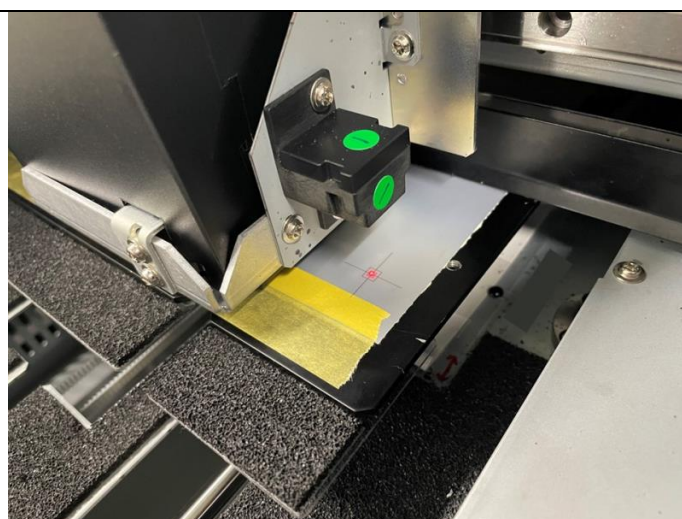
Step 10 / 13

Select [MARKER POS ADJ.] and the printer will automatically start printing a test pattern.



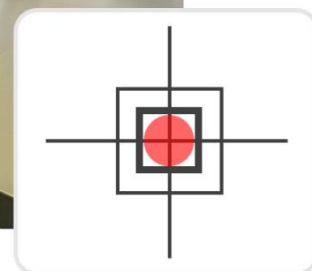
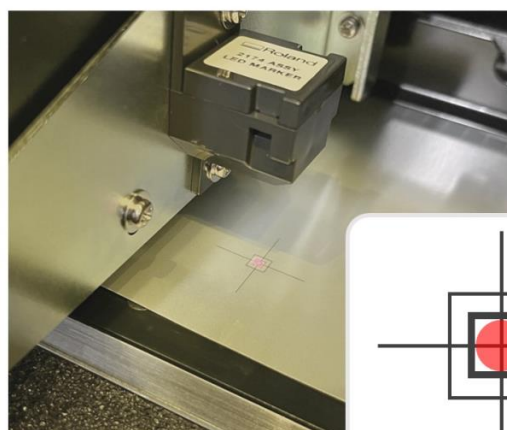
Step 11 / 13

After printing the test pattern, the print head carriage will automatically move over the test pattern.



Step 12 / 13

Use the [←] [→] [↑] [↓] keys to adjust the LED pointer so that it is centered on the test print pattern, then press the [ENTER] key to save the setting.



Step 13 / 13

Detail1: If the LED pointer position setting has not been adjusted, the menu setting value will be displayed as ****.

S:****	>	+0.1mm	◀◀▶▶
F:****	>	-0.3mm	↩

BD-8 Print area offset adjustment

BD-8 Print area offset adjustment

Information

Step 1 / 2

Necessary tools

一般ツール/General Tool

無し/None	
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特殊治具/Special Tools

無し/None	
---------	--

Step 2 / 2

Typical work time

作業時間/Typical work time

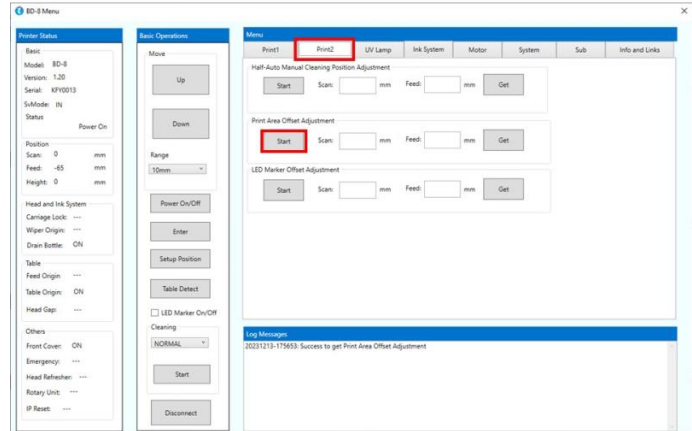
作業内容/Contents of work	時間/Time
印刷領域調整 Print Area Offset Adjustment	5 min.

BD-8 Print area offset adjustment

BD-8 Print area offset adjustment Procedure

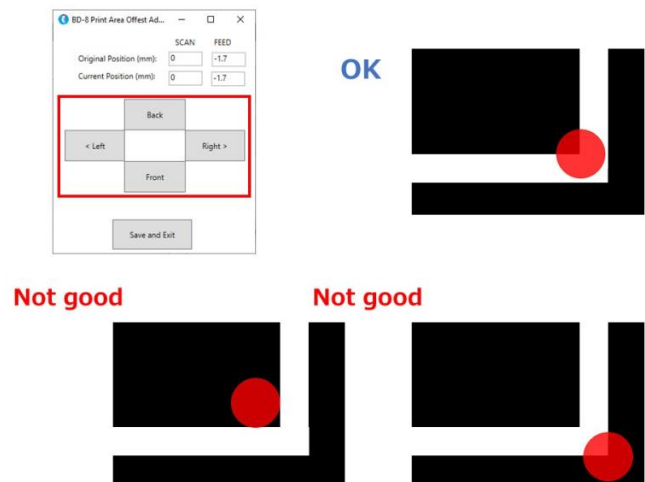
Step 1 / 3

Press [Start] under [Print Area Offset Adjustment] in [Print2] tab to start adjustment.



Step 2 / 3

A pop-up will appear, the table and carriage will move, and the LED marker will be illuminated. Adjust the center of the LED marker to match the inner corner of the white line on the table that indicates the maximum print area.



Step 3 / 3

After completing the adjustment, press [Save and Exit]. The sub power will turn off automatically.

