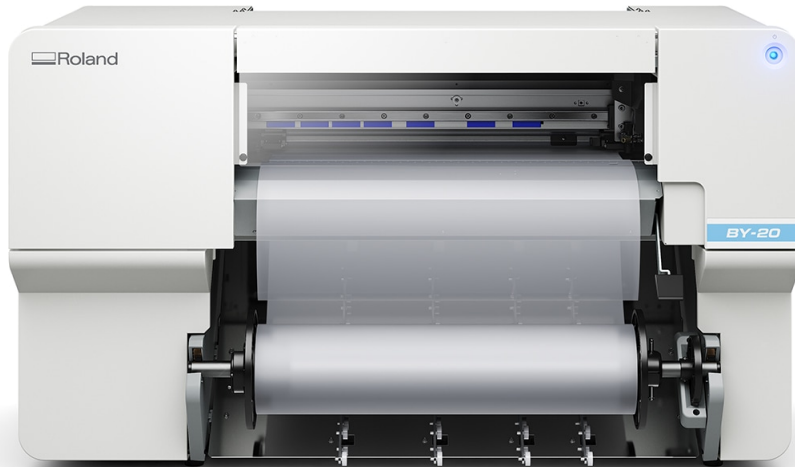


The following
material is
confidential.



BN2,BY-20

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BN2,BY-20 Print head replacement

BN2,BY-20 Print head replacement Information

Step 1 / 5

Clearing the print head
informationPrint head alignment



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	
ウエス Dry cloth	

Step 3 / 5

Special tools

特殊治具/Special Tools

ST-056 TORQUE DRIVER N6	
1000006902 TOOL,BIT HEXAGONAL ST-118	

Step 4 / 5

Typical work time

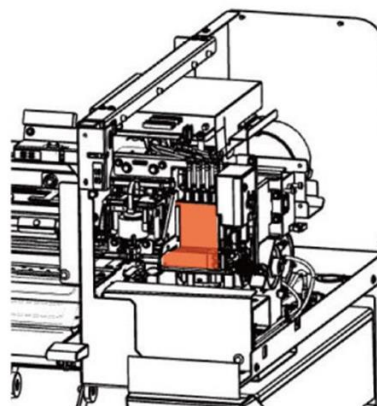
作業時間/Typical work time

作業内容/Contents of work	時間/Time
ヘッド交換 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	20 min.

Step 5 / 5

Outline diagram

概要図/Outline Diagram



BN2,BY-20 Print head replacement

BN2,BY-20 Print head replacement Procedure

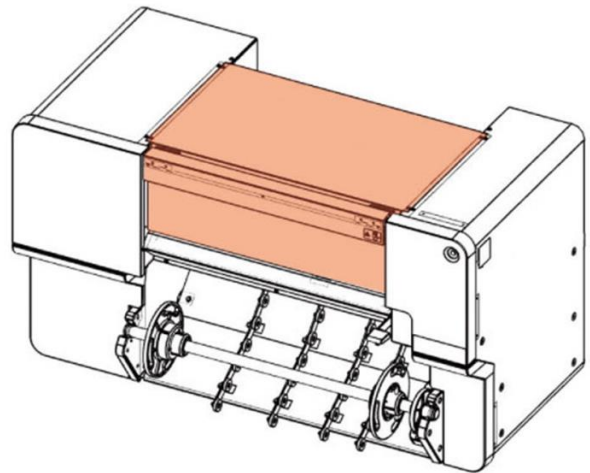
Step 1 / 29

Remove the cover and place the print head in the center of the printer.



Step 2 / 29

Detail□: Covers that need to be removed



Step 3 / 29

Detail2: Remove the front cover by loosening the screw on the left side of the cover and sliding the bar to the



right.



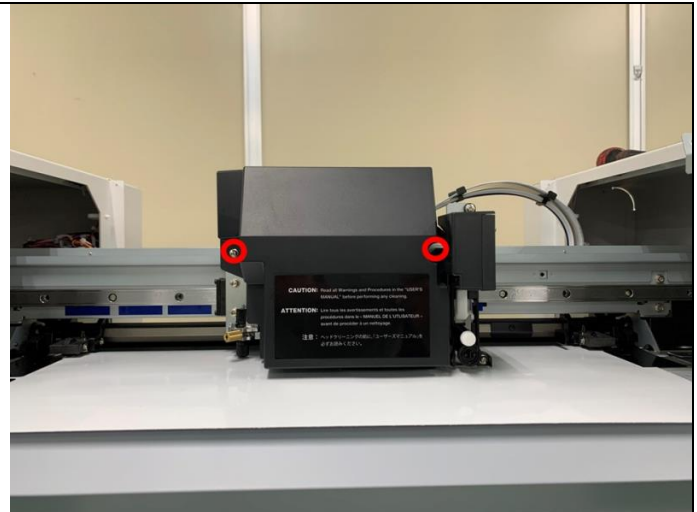
Step 4 / 29

Detail3: Remove the 7 screws on the TOP cover.



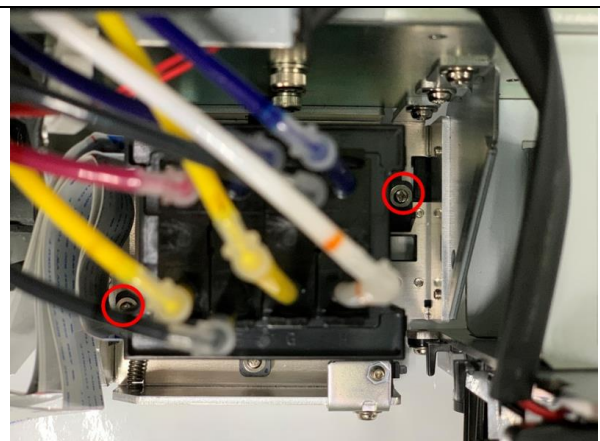
Step 5 / 29

Detail4: Remove the two screws on the print head cover and remove the it.



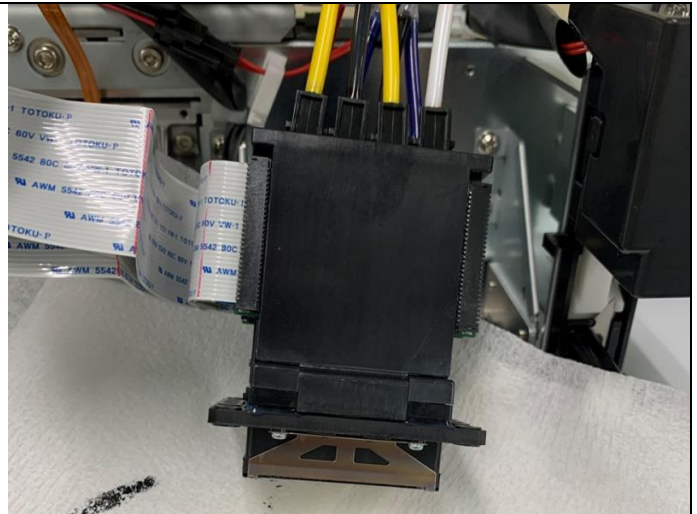
Step 6 / 29

Remove the hexagonal screws securing the print head.



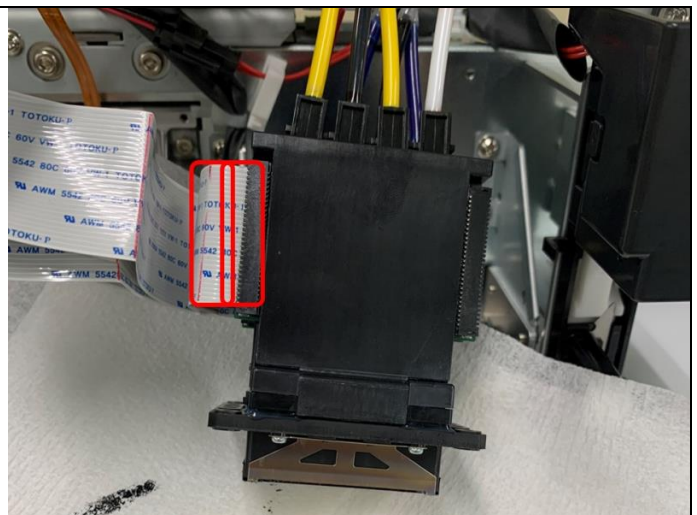
Step 7 / 29

To prevent ink splattering, we recommend that you spread a dry cloth.



Step 8 / 29

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



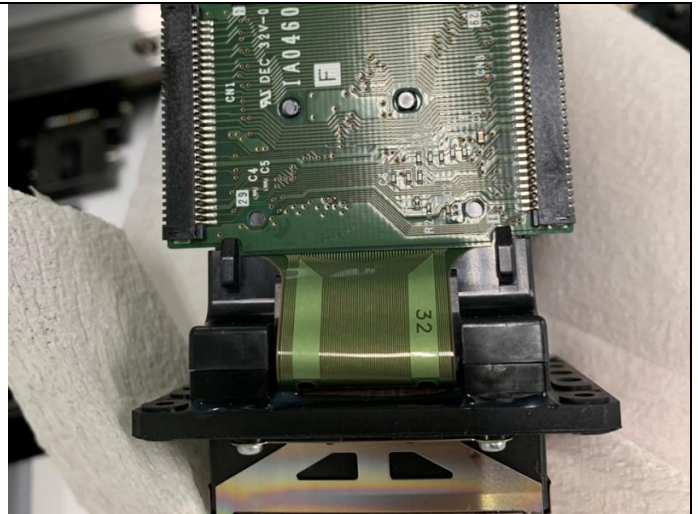
Step 9 / 29

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



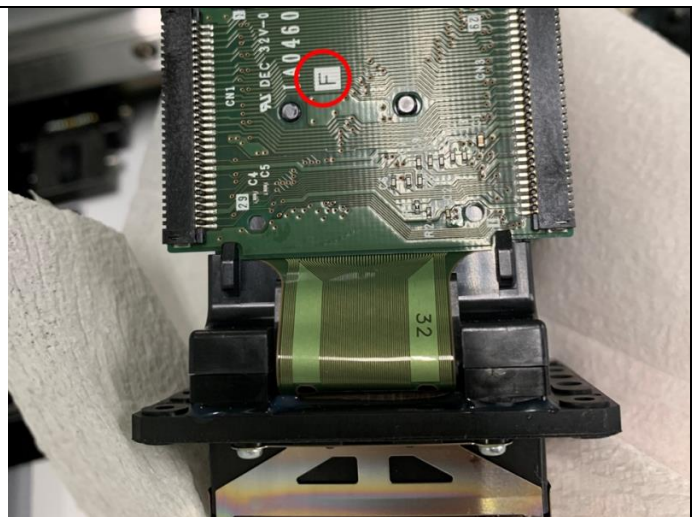
Step 10 / 29

Install the damper on the new print head.



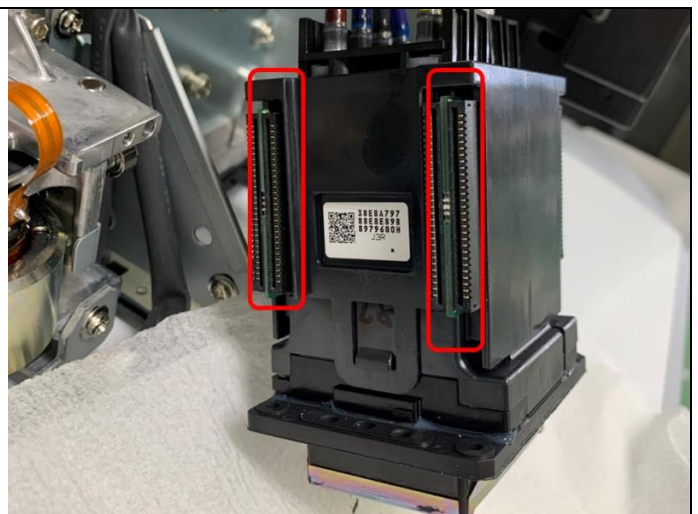
Step 11 / 29

Detail1: The surface with the letter "F" on the board should be in front. 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 12 / 29

Attach the flexible cables to the print head.

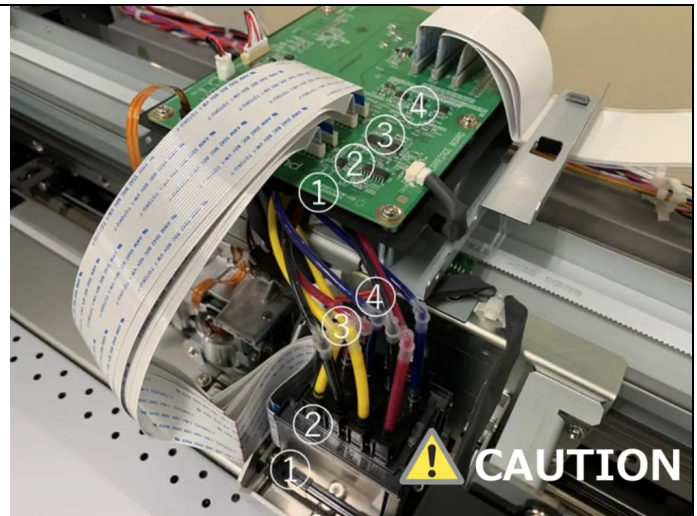


Step 13 / 29

Make sure that the flex cables are connected correctly in order.

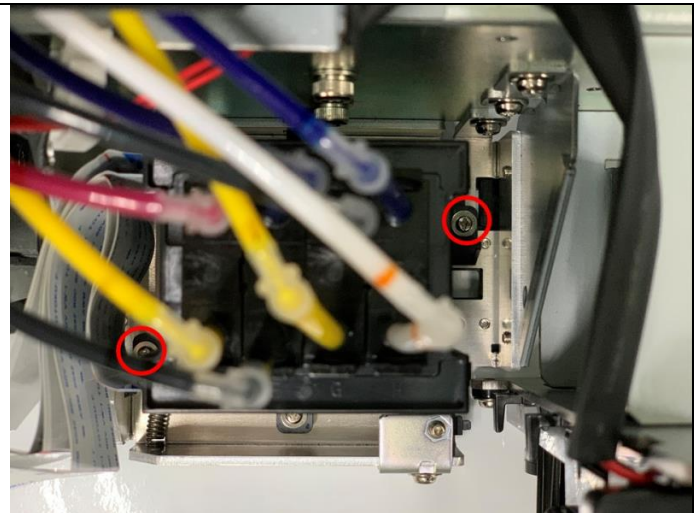
< CAUTION> If you do not connect them correctly, the head, mainboard and carriage board may be damaged, resulting in the following errors:

- Service call 0370 (cut solenoid A/D reading error)
- Service call 0012 (power supply voltage error)
- Unknown print head error



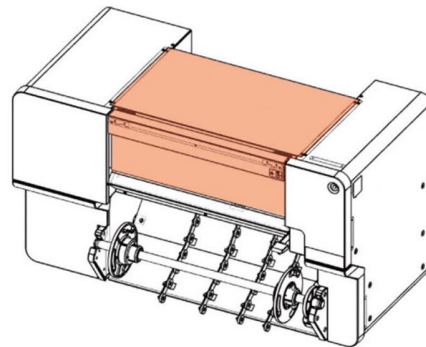
Step 14 / 29

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



Step 15 / 29

Attach the removed covers.



Step 16 / 29

Detail1: Attach the print head cover with two screws.



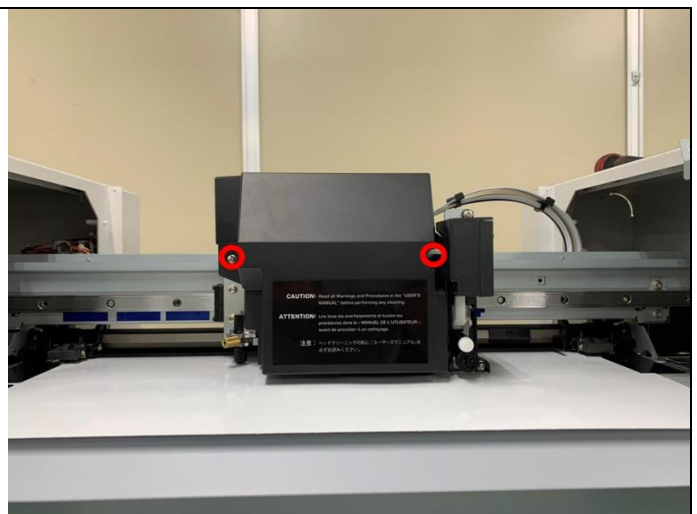
Step 17 / 29

Detail2: Attach the TOP cover with 7 screws.



Step 18 / 29

Detail3: Attach the front cover by sliding it to the left.



Step 19 / 29

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



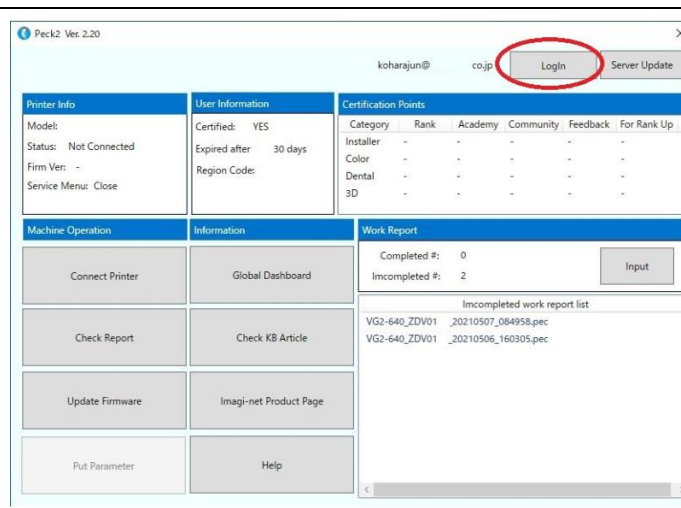
Step 20 / 29

Detail1: Start Peck2.



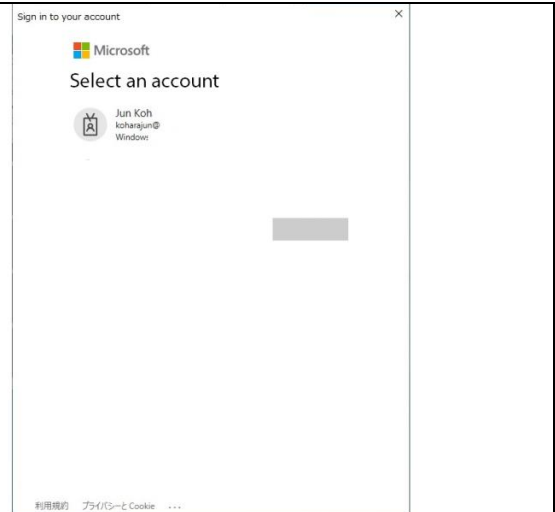
Step 21 / 29

Detail2: Click the [Login] button.



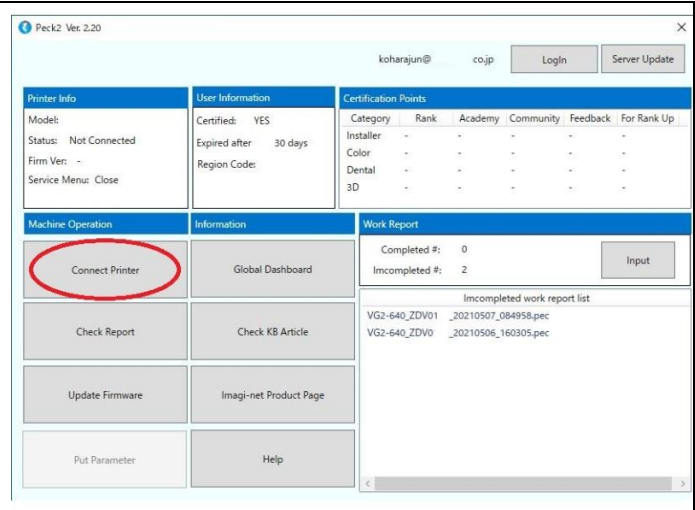
Step 22 / 29

Detail3: Login with your Imag-net ID.



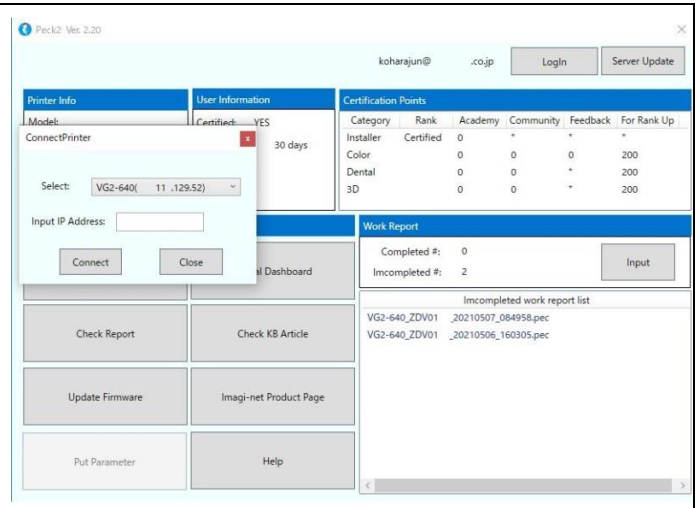
Step 23 / 29

Detail4: Click the [Connect Printer] button.



Step 24 / 29

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



Step 25 / 29

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

The screenshot shows the BN2 Menu interface. On the left, the 'Printer Status' panel displays basic information: Model: BN2-20, Version: 1.01, Serial: KFQ0102, SvMode: iN, and Status: UNSETUP. Below this, 'Head and Ink System' settings are shown: Carriage Lock: ON, CropMark: ---, Wiper Origin: ---, Drain Bottle: ON. 'Media' settings include Paper Front: ---, Paper Rear: ---, Pinch Pos: ON, and Pinch U/D: Up. 'Cover and Reset' settings show Front Cover: ---, Maintenance Cover: ---, and Left/Right covers: ON. The main 'Menu' panel on the right has tabs for Print, Ink System, Cut, Motor, System, Sub, and Info and Links. The 'Print' tab is active, showing 'Head Rank' fields with values 38EBA797, 88EBE898, and 89796Q0H, each with 'Get' and 'Set' buttons. Below are '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) sections. A 'Log Messages' section at the bottom shows three entries: '20230606-135814: Successfully get head rank: 38EBA79788EBE89889796Q0H', '20230606-135814: Getting head rank', and '20230606-135750: Success to stop check fan'.

Step 26 / 29

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

This screenshot is identical to the previous one, but the three 'Head Rank' input fields (38EBA797, 88EBE898, 89796Q0H) and their respective 'Get' and 'Set' buttons are highlighted with a red rectangular box, indicating the step where the user should enter the head rank from the print head package.

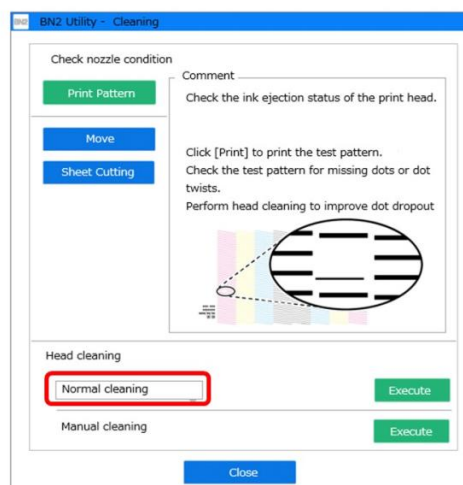
Step 27 / 29

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

This screenshot is identical to the previous ones, but the 'Clear' button in the 'Clear Head History' section is highlighted with a red rectangular box, indicating the step where the user should clear the head history.

Step 28 / 29

Perform powerful cleaning until a test print can be printed successfully by BN2 Utility.



Step 29 / 29

Perform [Print head alignment], [Crop-cut adjustment] and [Print/Cut position adjustment].



次の手順

ヘッド位置調整

Next Step

Print head adjustment

BN2,BY-20 Damper replacement

BN2,BY-20 Damper replacement

Information

Step 1 / 3

Necessary Tools

一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
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 / 3

Typical Wor Time

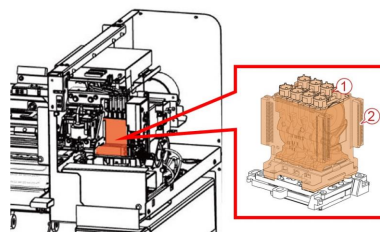
作業時間/Typical work time

作業内容/Contents of work	時間/Time
ダンパー交換 Damper replacement	20 min.

Step 3 / 3

1. Damper, 2. Print head

概要図/Outline Diagram



BN2,BY-20 Damper replacement

BN2,BY-20 Damper replacement Procedure

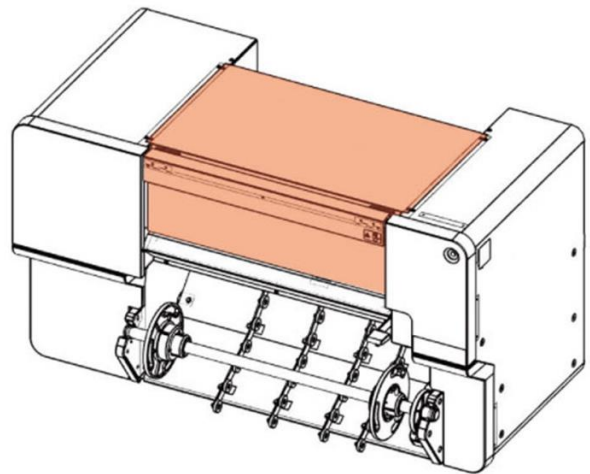
Step 1 / 26

Remove the cover and place the print head in the center of the printer.



Step 2 / 26

Detail1: Covers that need to be removed



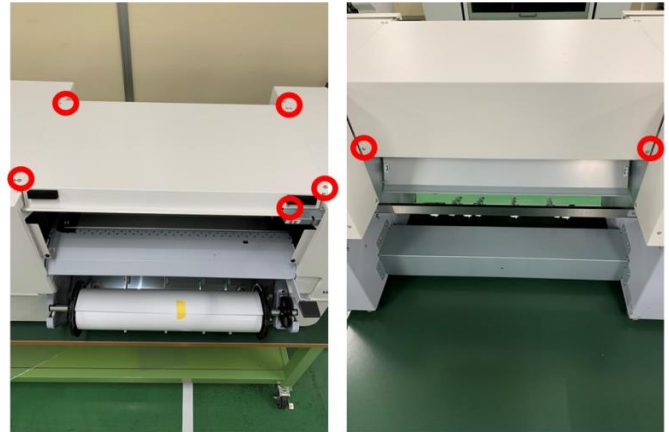
Step 3 / 26

Detail2: Remove the front cover by loosening the screw on the left side of the cover and sliding the bar to the right.



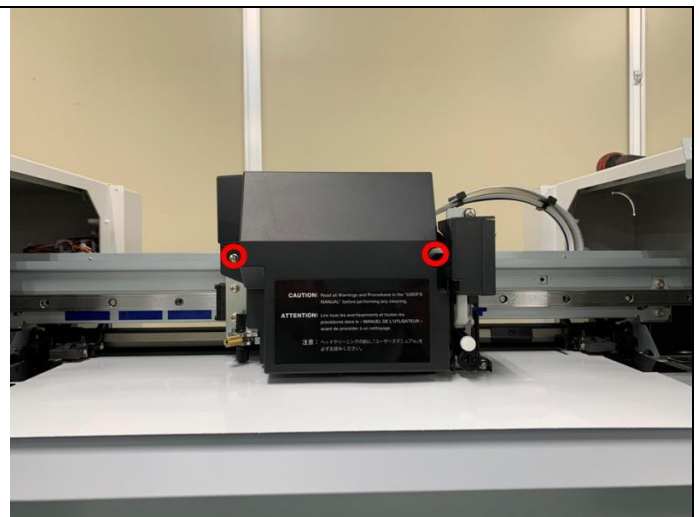
Step 4 / 26

Detail3: Remove the 7 screws on the TOP cover.



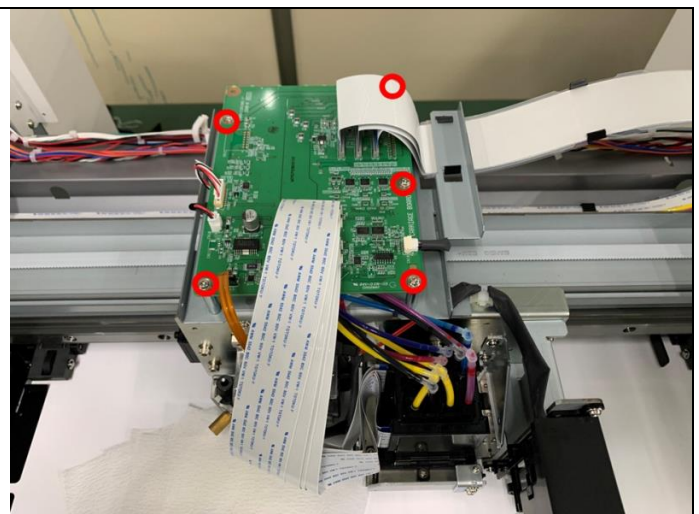
Step 5 / 26

Detail4: Remove the two screws on the print head cover.



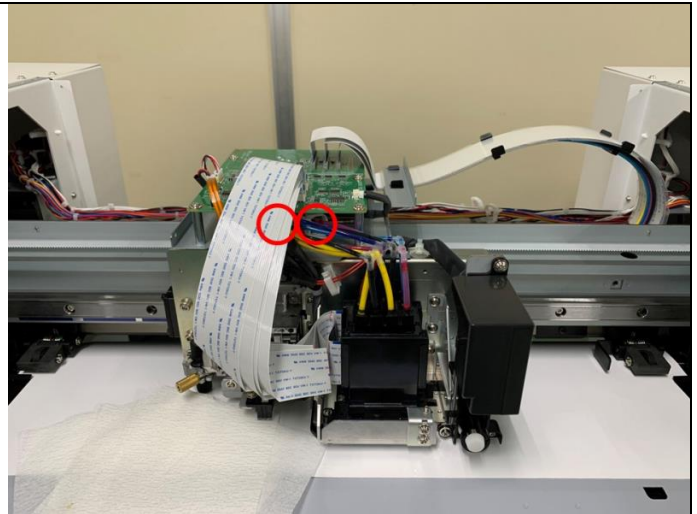
Step 6 / 26

Remove the 5 screws securing the board.



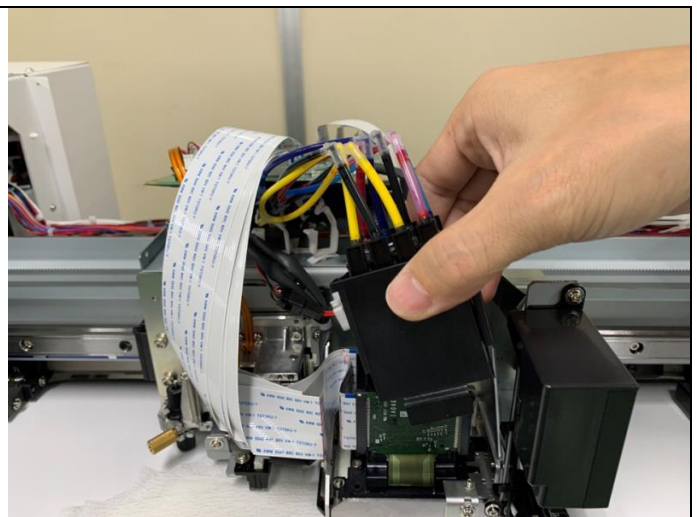
Step 7 / 26

Remove the two clamps securing the tubes.



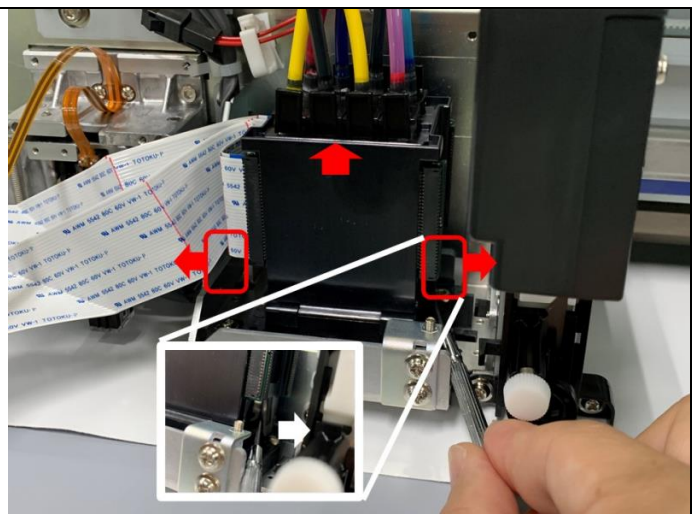
Step 8 / 26

Remove the damper from the print head. Be careful not to break the tube or allow ink to drip into the print head. We recommend that you work with a dry cloth to prevent ink splattering.



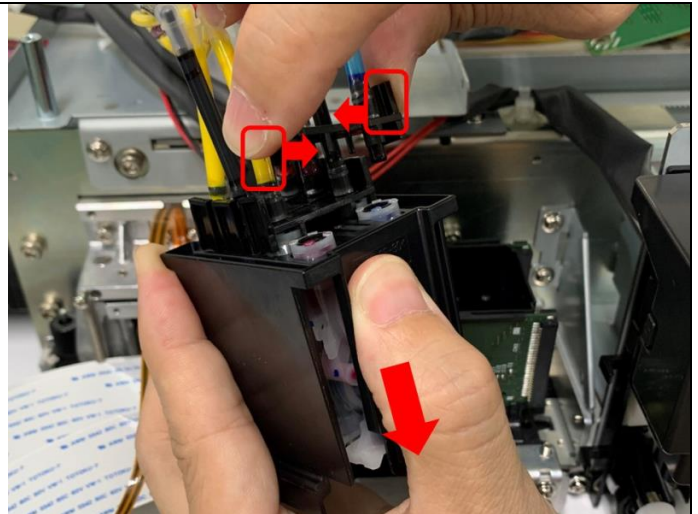
Step 9 / 26

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



Step 10 / 26

Pinch the tabs on the top of the damper inward to remove them, and pull the damper out from the lower side. Be sure to replace the dampers one at a time.



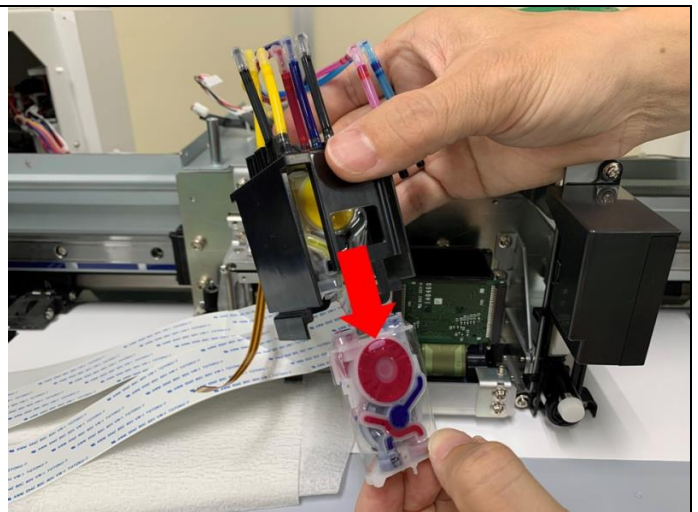
Step 11 / 26

Detail1: Remove the damper by pinching both ends of the damper joint at the top of the damper.



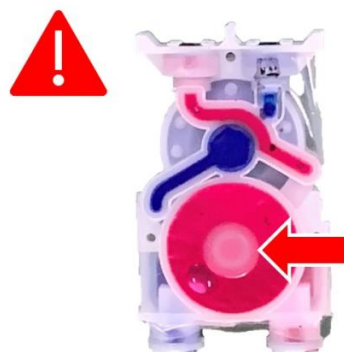
Step 12 / 26

Detail2: Pull out the damper from the lower side.



Step 13 / 26

Do not touch the valve of the damper.
Touching the valve of the damper will
cause ink to leak from the damper. Ink
on the print head board will also
damage the print head.



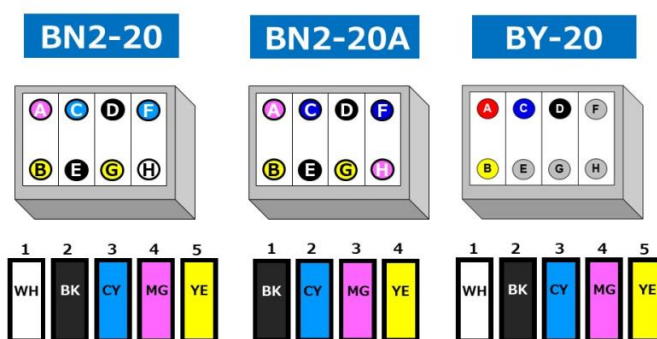
Step 14 / 26

Mount a new damper on the damper
cover.



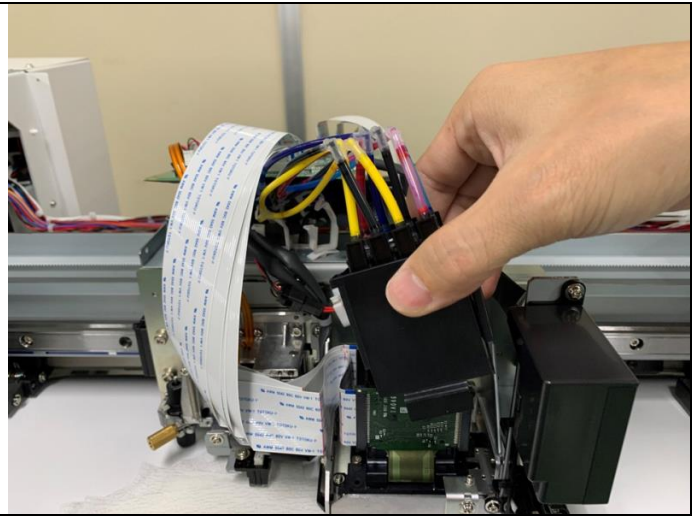
Step 15 / 26

When mounting the dampers, be careful
to connect to the correct ink lines.



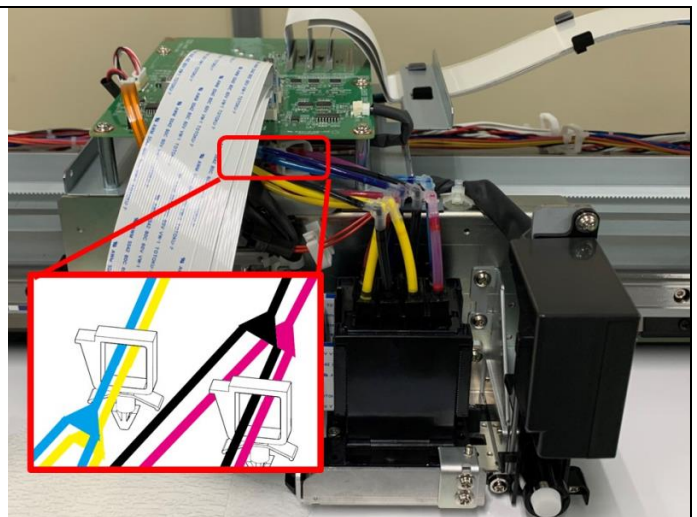
Step 16 / 26

Push the print head in so that a clicking sound is heard and the hook is firmly caught in the print head's claw.



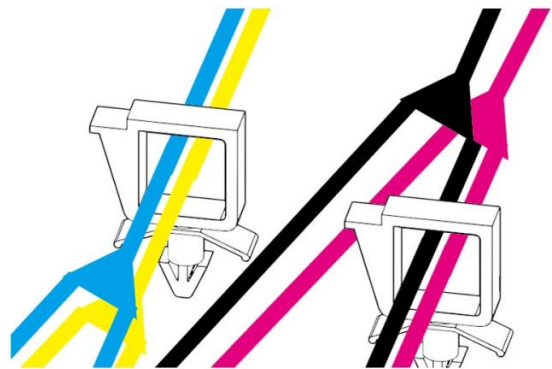
Step 17 / 26

Bundle the tubes with the clamps. Be careful with the tube routing.



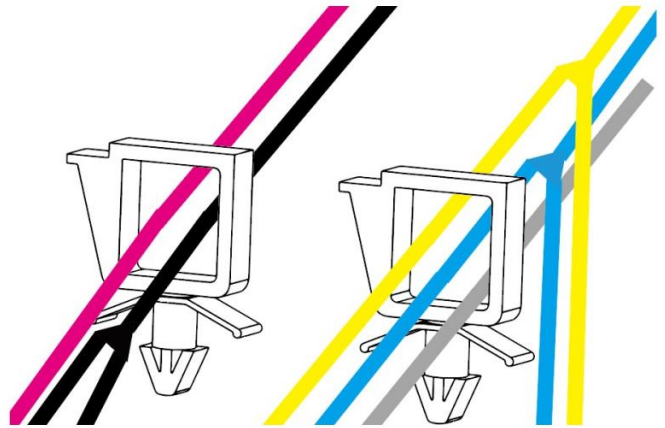
Step 18 / 26

Detail1: BN2-20A



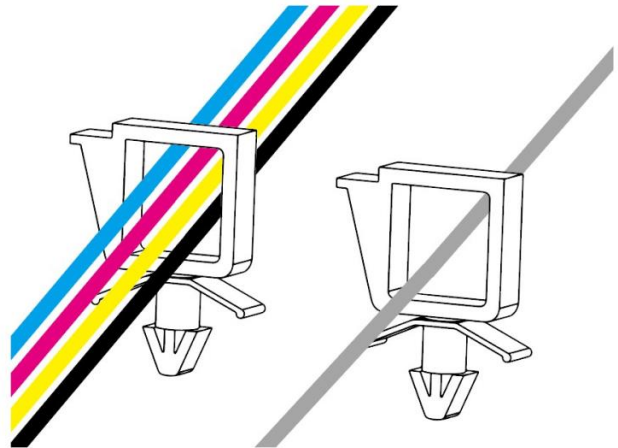
Step 19 / 26

Detail2: BN2-20



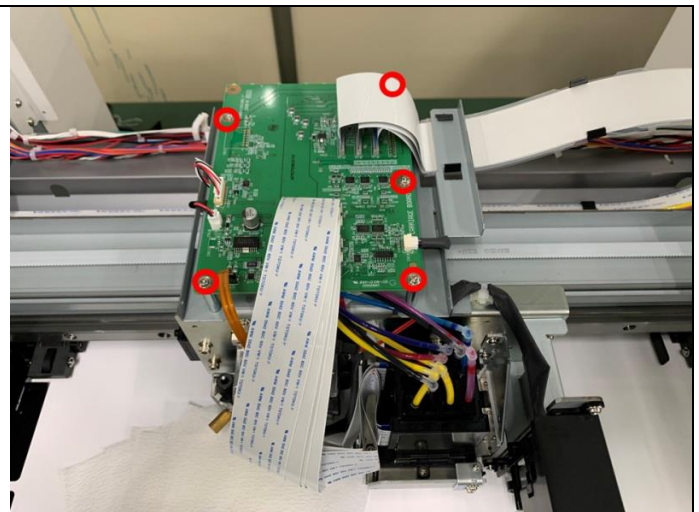
Step 20 / 26

Detail3: BY-20



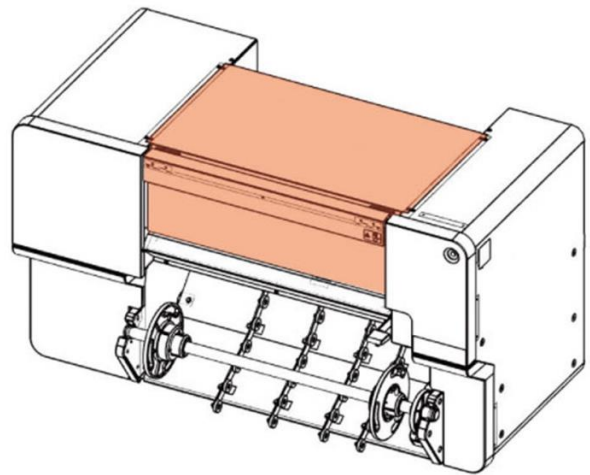
Step 21 / 26

Secure the board with the five screws.



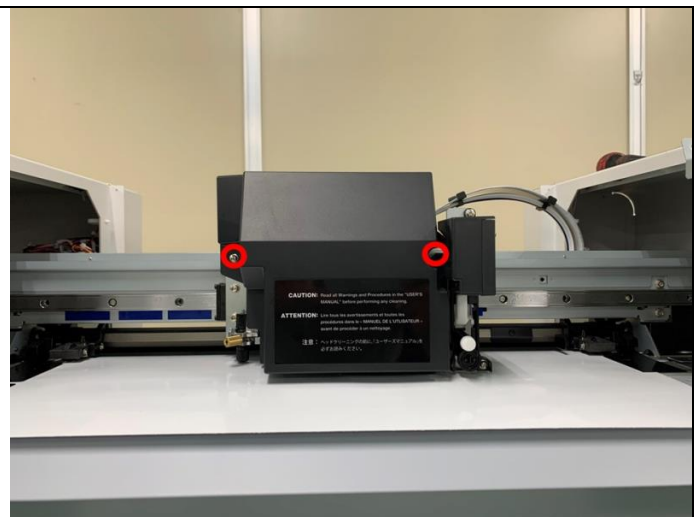
Step 22 / 26

Close the covers.



Step 23 / 26

Detail1: Attach the print head cover with 2 screws.



Step 24 / 26

Detail2: Attach the TOP cover with 7 screws.



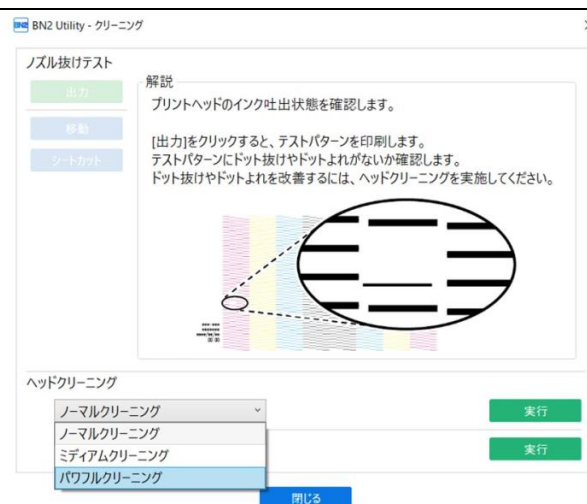
Step 25 / 26

Detail3: Tighten the screw on one side and slide the bar to attach the front cover.



Step 26 / 26

Perform a powerful cleaning until a test print can be printed successfully in BN2 Utility.



BN2,BY-20 Cap top replacement

BN2,BY-20 Cap top replacement

Information

Step 1 / 3

The exchange is the same as the user procedure.



Step 2 / 3

Necessary tools

一般ツール/General Tool

なし
None

Step 3 / 3

Typical work time

作業時間/Typical work time

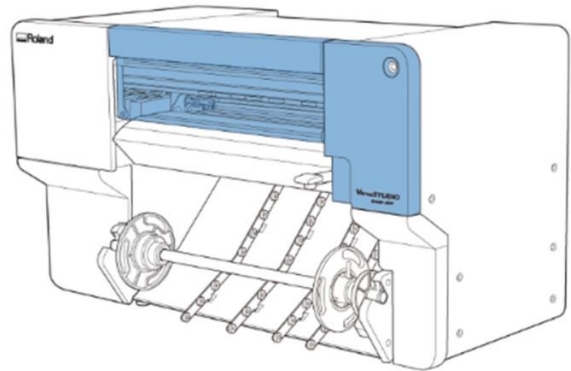
作業内容/Contents of work	時間/Time
CapTop交換 Cap Top replacement	5 min.

BN2,BY-20 Cap top replacement

BN2,BY-20 Cap top replacement Procedure

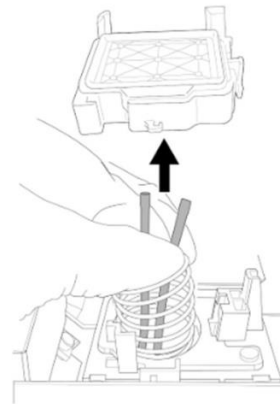
Step 1 / 13

Open the two covers.



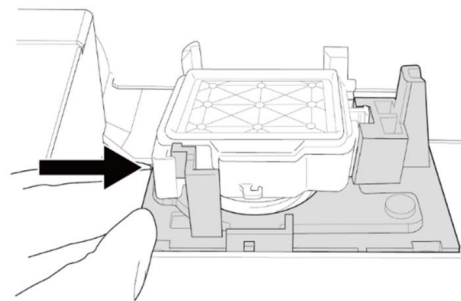
Step 2 / 13

Remove the cap top.



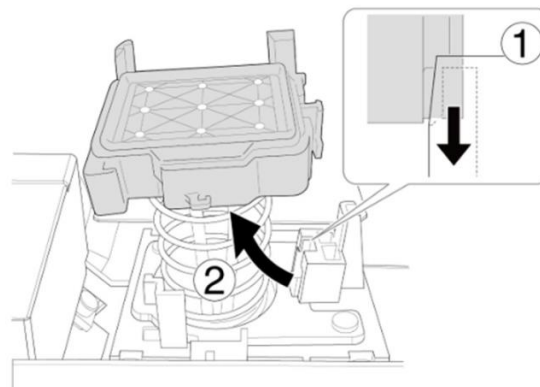
Step 3 / 13

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



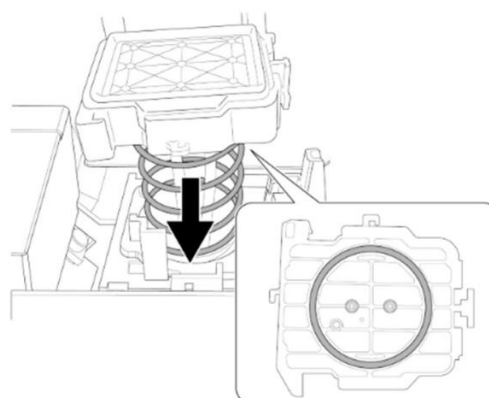
Step 4 / 13

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



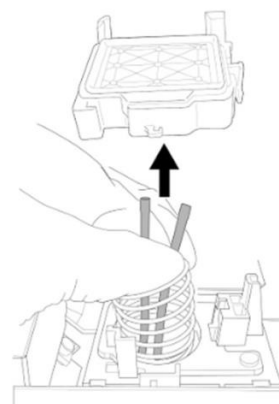
Step 5 / 13

Detail3: Remove the spring from the groove.



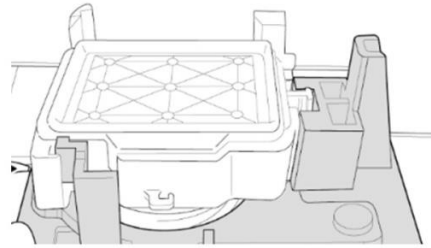
Step 6 / 13

Detail4: Disconnect the tubes connected to the cap top.



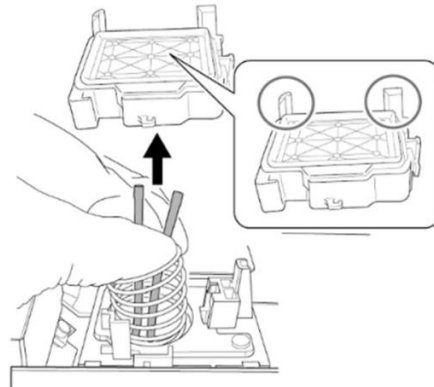
Step 7 / 13

Mount the new cap top.



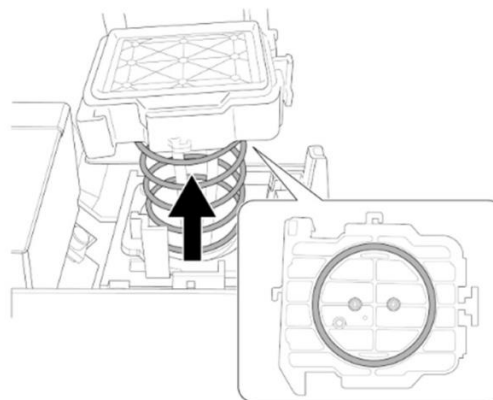
Step 8 / 13

Detail1: Attach the new cap top to the tubes, being careful of the orientation of the cap top. The tube can be attached from either one.



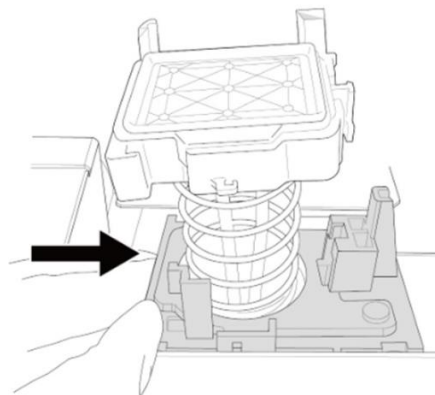
Step 9 / 13

Detail2: Engage the spring into the groove.



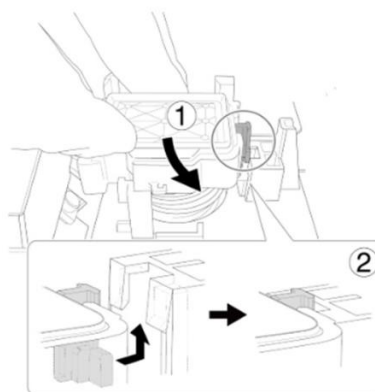
Step 10 / 13

Detail3: Push the base with the cap attached to the right.



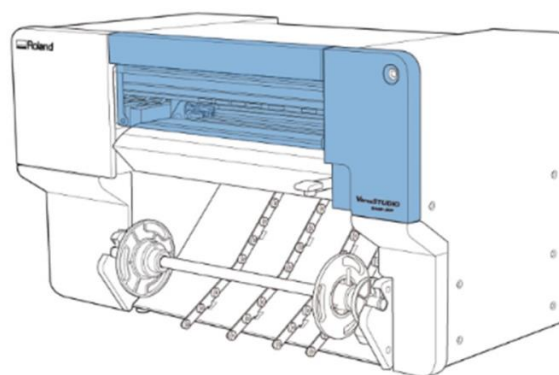
Step 11 / 13

Detail4: While pressing the T-shaped hook on the right side of the cap top, engage the hook in the groove on the base.



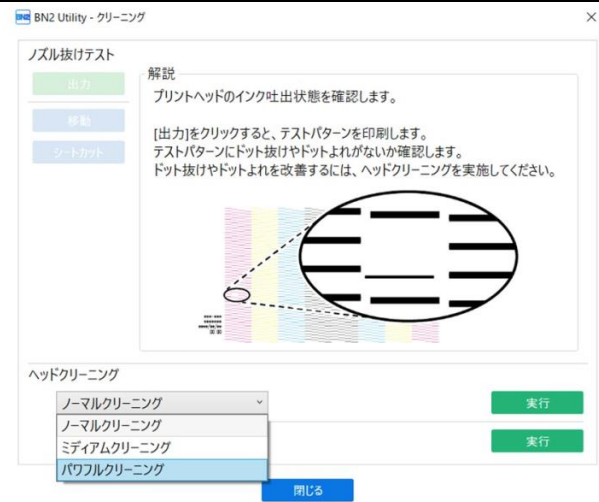
Step 12 / 13

Close the covers.



Step 13 / 13

Perform Nozzle drop-out test in BN2 Utility, and If the ink is not ejected properly, clean the print head.



BN2,BY-20 Main board replacement

BN2,BY-20 Main board replacement

Information

Step 1 / 3

The mainboard is a common board shared with other models.If the parameters cannot be obtained, it will be necessary to reset the parameters.Bi-directional adjustmentTool pressure adjustmentFeed calibrationCrop cut adjustmentPrint/cut position adjustment



Step 2 / 3

Necessary Tools

一般ツール/General Tool

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



Step 3 / 3

Typical work time

作業時間/Typical work time

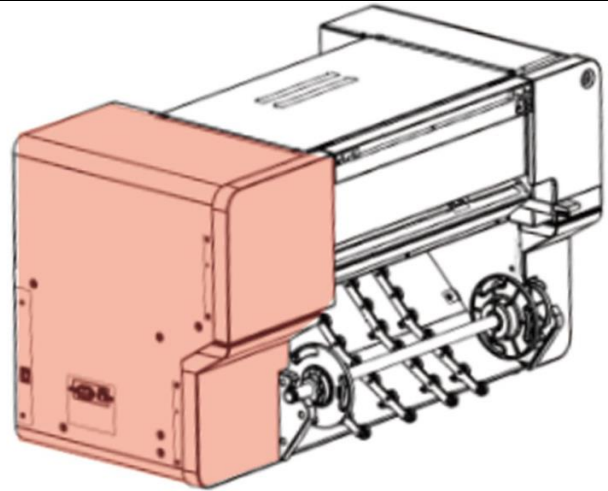
作業内容/Contents of work	時間/Time
メインボード交換 (Peck2でパラメータの転送が可能な場合) Mainboard replacement (When parameters can be transferred by Peck2)	30 min.
メインボード交換 (Peck2でパラメータの転送が不可能な場合) Mainboard replacement (When parameters cannot be transferred by Peck2)	50 min

BN2,BY-20 Main board replacement

BN2,BY-20 Main board replacement Procedure

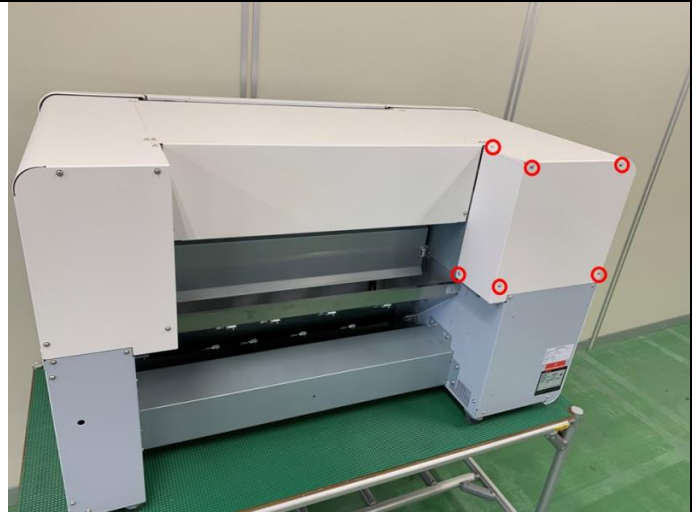
Step 1 / 52

Remove the cover.



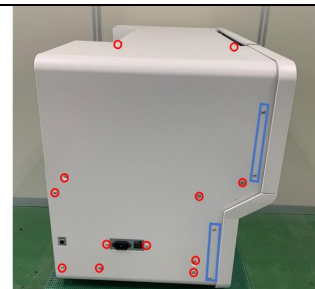
Step 2 / 52

Detail1: Remove the 6 screws and
remove the back cover.

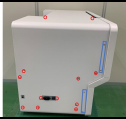


Step 3 / 52

Detail2: Remove the screws and remove
the side cover. The blue-framed screws
are the screws that fix the open/close



cover, so they are not removed.



Step 4 / 52

Detail1: Start Peck2.

Peck2

Ver. 3.31



Imagine. 

Step 5 / 52

Detail2: Click the Login button.

Peck2 Ver. 3.3.1

suzukish@rolanddg.co.jp

Login

Server Update

Printer Info

Model: BN2-20_KFQ0102

Status: UnSetup

Firm Ver: 1.80

Service Menu: Open

User Information

Certified: YES

Expired after: 29 days

Region Code:

Certification Points

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

Machine Operation

Connect Printer

Check Report

Update Firmware

Put Parameter

Information

Global Dashboard

Start RDGSA App

Help

Set ModelName

Site Links

RolandDG Connect Page

Imagi-net Product Page

Check KB Article

Work Report

Completed #: 0

Incompleted #: 3

Input

Incompleted work report list

LG-300_KFO0100_20240606_192346.pec

BY-20_KFZ0001_20240607_140406.pec

BN2-20_KFQ0102_20240607_141755.pec

Step 6 / 52

Detail3: Log in with your Imagi-net ID.

Sign in to your account

Microsoft

Select an account

 Jun Koh
kohakun@
Windows

Step 7 / 52

Detail4: Click the Connect Printer button.

Peck2 Ver. 3.3.1

suzukish@rolanddg.co.jp

Login

Server Update

2024.6.6

Printer Info	User Information	Certification Points				
Model: BN2-20_KFQ0102	Certified: YES	Category	Rank	Academy	Community	Feedback
Status: UnSetup	Expired after: 29 days	Installer	-	-	-	-
Firm Ver: 1.80	Region Code:	Color	-	-	-	-
Service Menu: Open		Dental	-	-	-	-
		3D	-	-	-	-

Machine Operation	Information	Site Links	Work Report
Connect Printer	Global Dashboard	RolandDG Connect Page	Completed #: 0
Check Report	Start RDGSA App	Imagi-net Product Page	Incompleted #: 3
Update Firmware	Help	Check KB Article	
Put Parameter	Set ModelName		

Input

Incompleted work report list

LG-300_KFQ0100_20240606_192346.pec

BY-20_KFZ0001_20240607_140406.pec

BN2-20_KFQ0102_20240607_141755.pec

Step 8 / 52

Detail5: Check 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: BN2-20

Version: 1.80

Serial: KFQ0102

SwModel: IN

Status: UNSETUP

Head and Ink System

Caraige Lock: ON

CropMark: ---

Wiper Origin: ---

Drain Bottle: ON

Media

Paper Front: ---

Paper Rear: ---

Pinch Pos: ON

Pinch Lift: Up

Cover and Reset

Front Cover: ---

Mainte Cover: Left: ON Right: ON

IP Reset: ---

Basic Operations

Media Setup

Sheet Cut

Cleaning

NORMAL

Start

Move

Back

Left

Right

Front

Range

Preview 200mm

Disconnect

Memo

Print

Link System

Cut

Motor

System

Sub

Info and Links

Head Rank

Head Adjust

Bas Print

Bi-Dic Print

No. 1

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

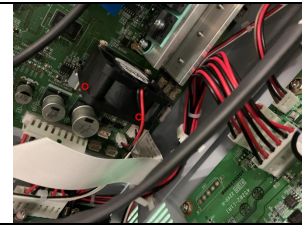
Log Messages

Step 9 / 52

Remove the sheet metal that holds the power supply.

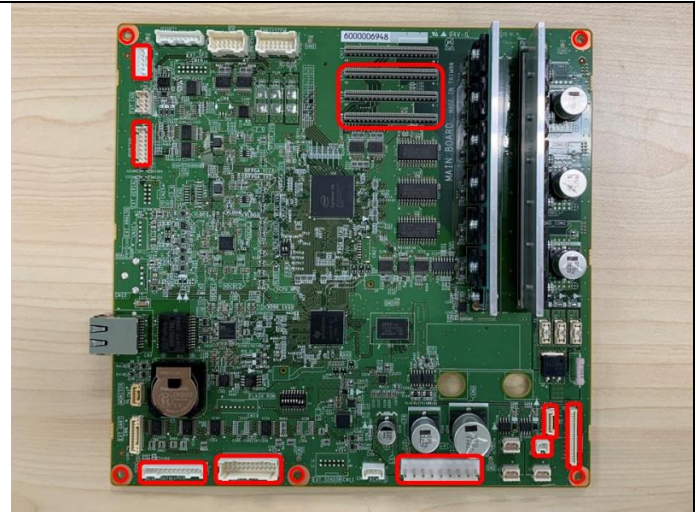
Step 10 / 52

Remove the two screws with a screwdriver and remove the fan from the board.



Step 11 / 52

Unplug all cables, remove 5 screws with a screwdriver and replace the main board.



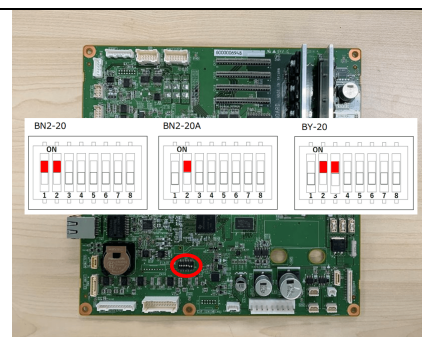
Step 12 / 52

Remove the battery from the old board.



Step 13 / 52

Set the DIP switches on the new mainboard.



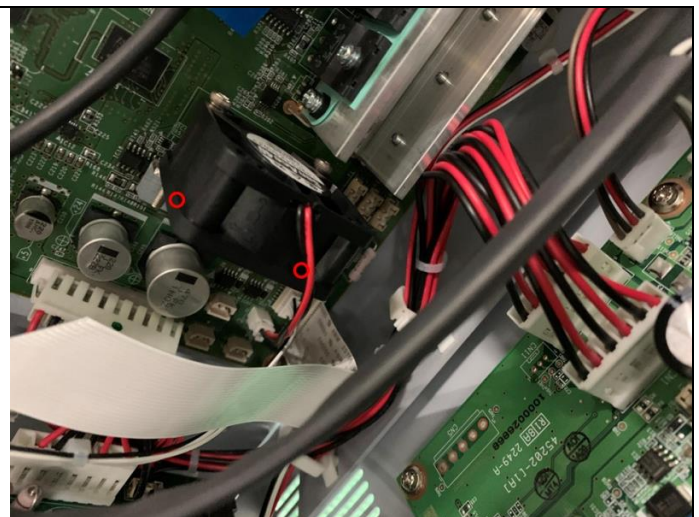
Step 14 / 52

Replace the battery with a new board and attach the main board with 5 screws.



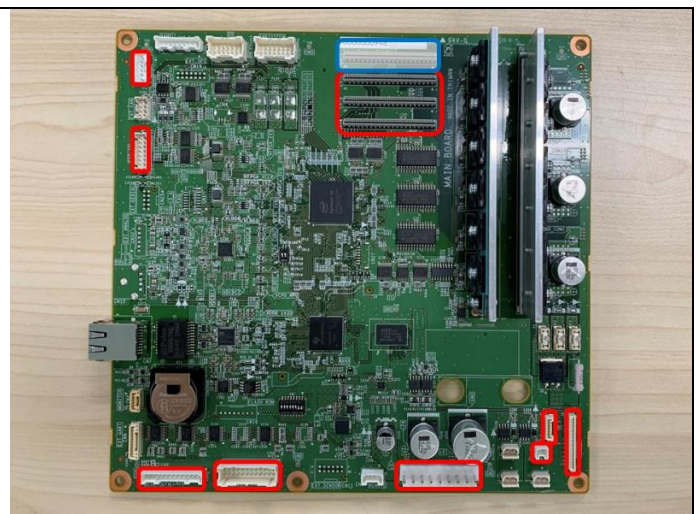
Step 15 / 52

Install the fan.



Step 16 / 52

Install the cables paying attention to their location and orientation. Also, be careful not to insert the cable into the connector framed in blue.



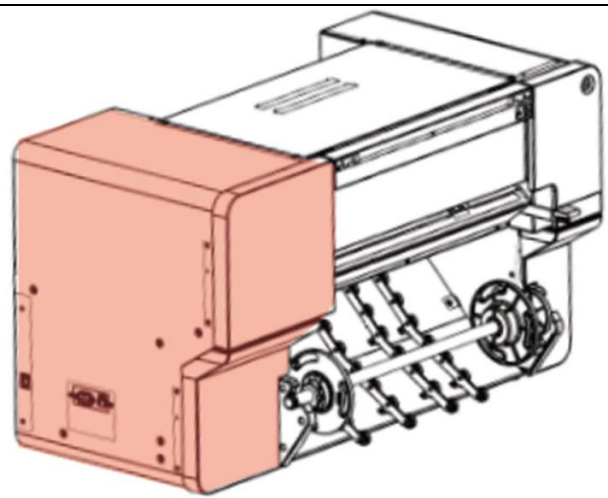
Step 17 / 52

Attach the metal plate that holds the power supply.



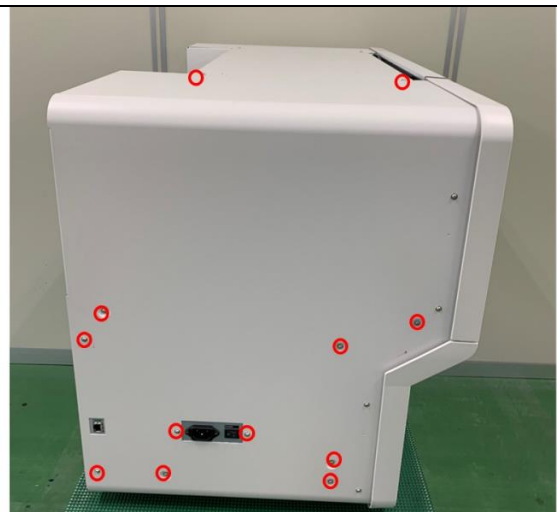
Step 18 / 52

Attach the cover.



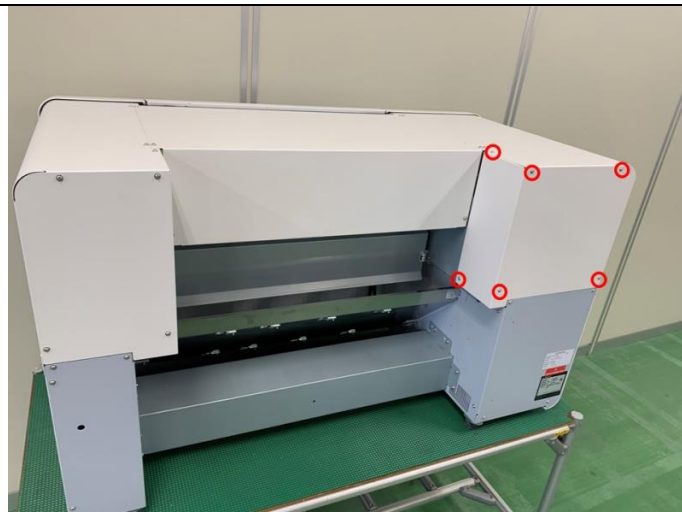
Step 19 / 52

Detail1: Install the side cover.



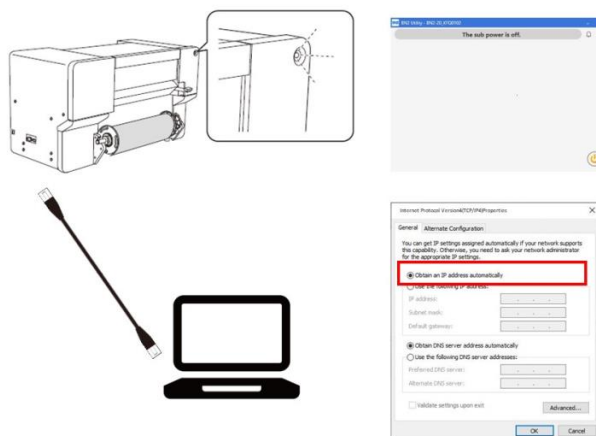
Step 20 / 52

Detail2: Attach the rear cover.



Step 21 / 52

Make sure that the power of the main unit is turned off, and connect the LAN cable to the PC. When connecting, be sure to set the PC's IP address to automatic IP acquisition.



Step 22 / 52

Detail1: Start Peck2. *Ver. 3.31 or later

Peck2

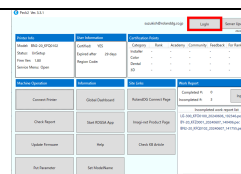
Ver. 3.31



Imagine. **Roland**

Step 23 / 52

Detail2: Click the Login button.



Wednesday, July 2, 2025 9:43 PM

Language: en

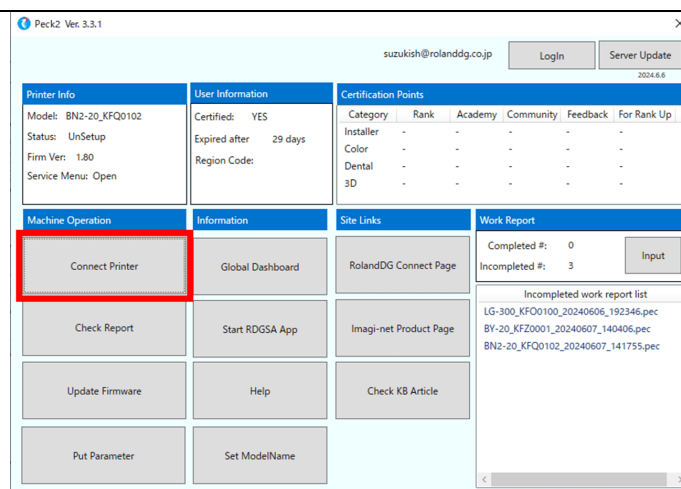
Step 24 / 52

Detail3: Log in with your Imagi-net ID.



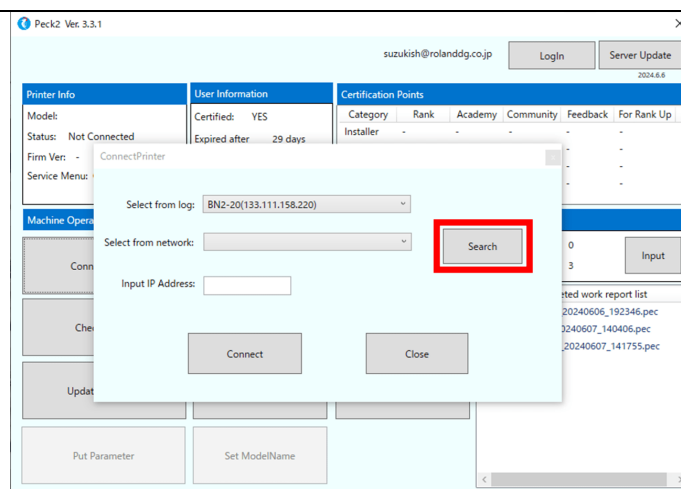
Step 25 / 52

Detail4: Click the Connect Printer button.



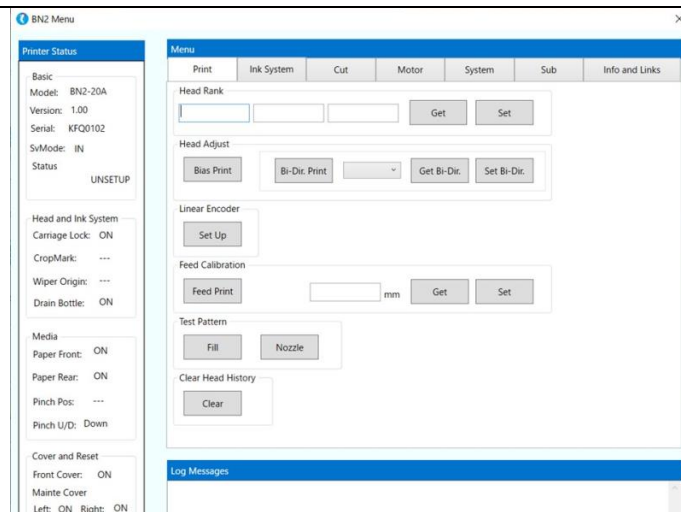
Step 26 / 52

Detail5: Use the Search button to search for the IP address of the device you want to connect to and connect. If you can not search, please check whether the IP address setting of the PC is automatically obtained.



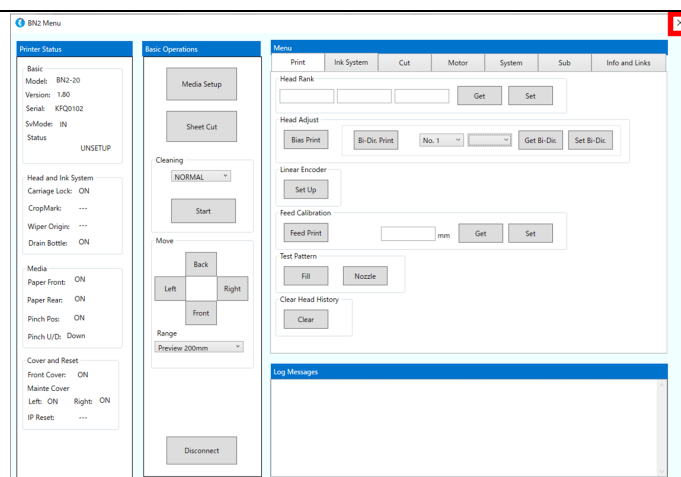
Step 27 / 52

Detail6: Check that the printer information is displayed in Printer Info on the Peck2 main screen and that it is connected to the machine.



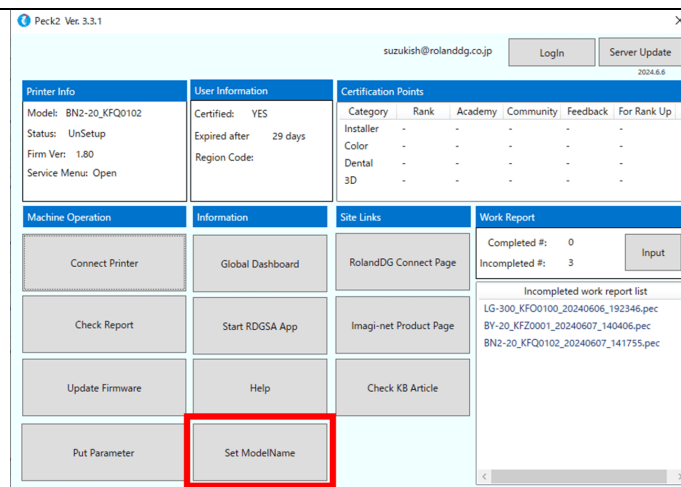
Step 28 / 52

Close the connection screen.

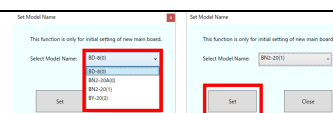


Step 29 / 52

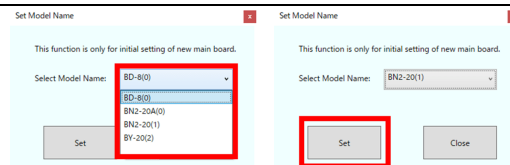
Click [Set ModelName].



Step 30 / 52



Select [BN2-20] from the pull-down and press [Set].



Step 31 / 52

Turn off the secondary power supply, then turn off the primary power supply, then turn on the primary power supply again.



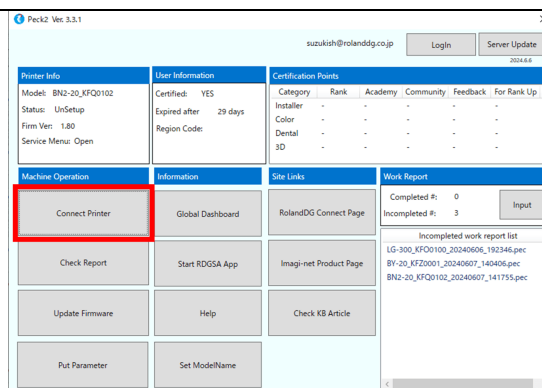
Step 32 / 52

Procedure if Parameter could be obtained



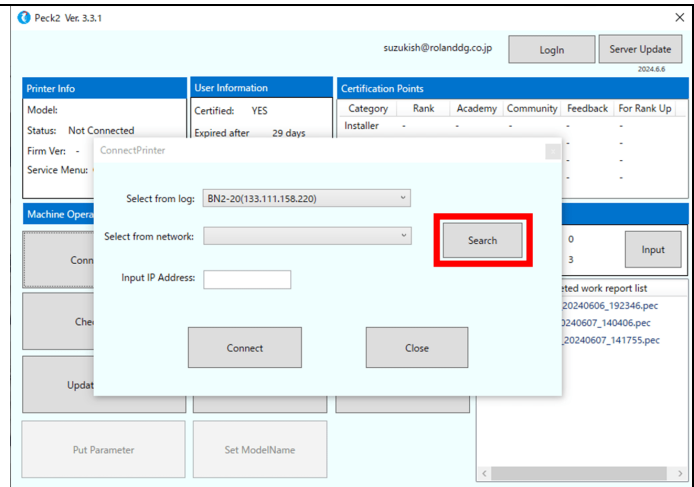
Step 33 / 52

Click the Connect Printer button.



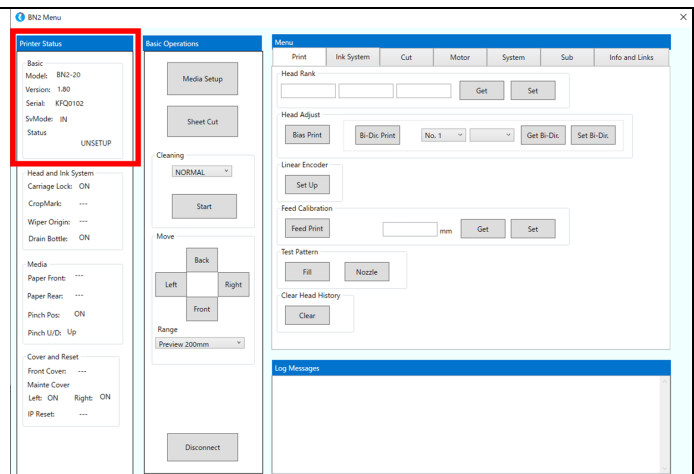
Step 34 / 52

Search for the IP address of the machine you want to connect to using the Search button. If you cannot search, check if the IP address setting of your PC is set to obtain automatically.



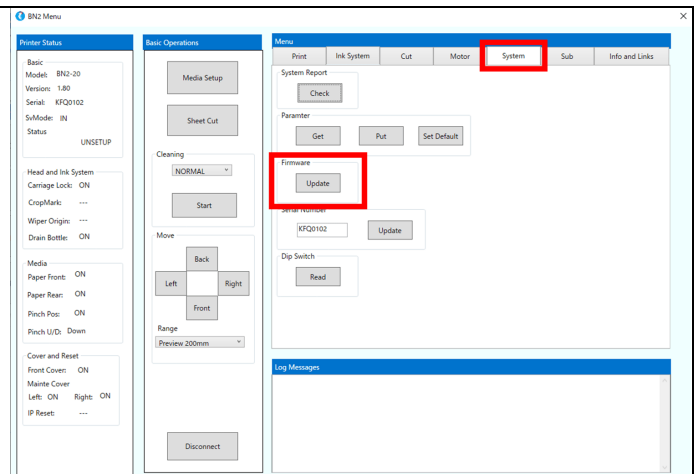
Step 35 / 52

Confirm on the screen that the model name is displayed.

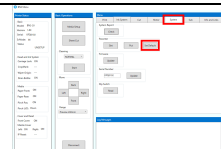


Step 36 / 52

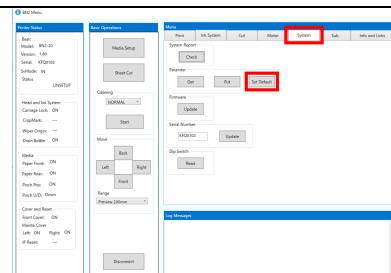
Select [System] > [Firmware] > [Update] to install the firmware.



Step 37 / 52

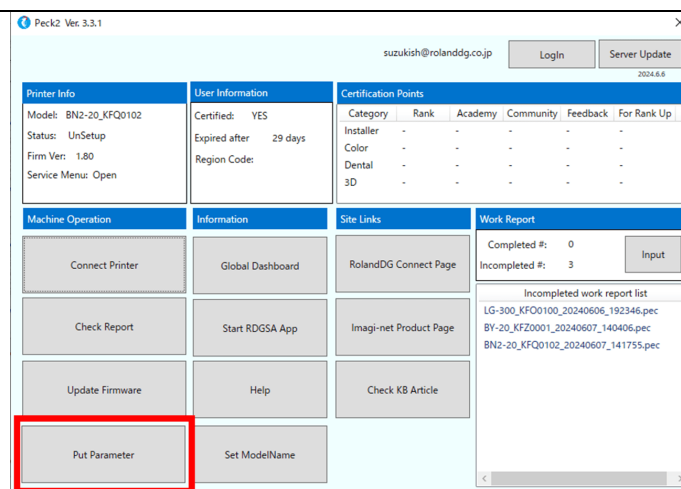


Select [System] > [Parameter] > [Set Default] to initialize the SystemParameter. After initialization, the IP address will be reset again.



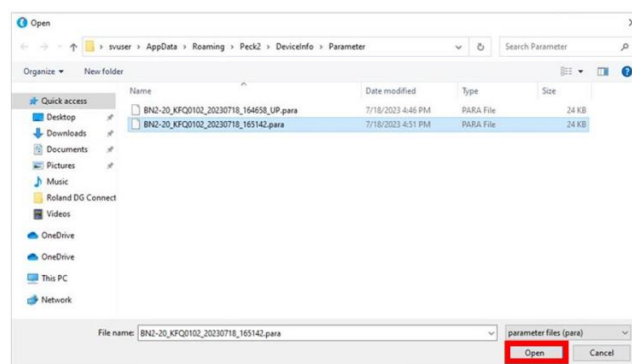
Step 38 / 52

Select [Put Parameter] on the Peck2 TOP screen to apply the parameter.



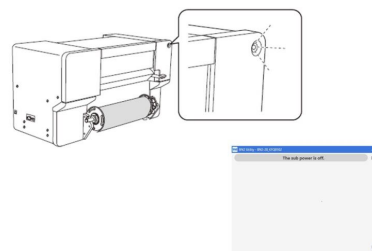
Step 39 / 52

Detail1: Select a saved parameter and apply it with Open.



Step 40 / 52

Turn off the power of the main unit again.



Step 41 / 52

Procedures if Parameter could not be obtained



Step 42 / 52

Start Peck2. *Ver. 3.31 or later

Peck2

Ver. 3.31



Imagine. Roland

Step 43 / 52

Detail1: Click the Login button.

Peck2 Ver. 3.3.1

suzukish@rolanddg.co.jp **Login** Server Update 2024.6.6

Printer Info	User Information	Certification Points
Model: BN2-20_KFQ0102	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: UnSetup	Expired after: 29 days	Installer - - - - -
Firm Ver: 1.80	Region Code:	Color - - - - -
Service Menu: Open		Dental - - - - -
		3D - - - - -

Machine Operation	Information	Site Links	Work Report
Connect Printer	Global Dashboard	RolandDG Connect Page	Completed #: 0 Incompleted #: 3 Input
Check Report	Start RDGSA App	Imagi-net Product Page	Incompleted work report list LG-300_KFQ0100_20240606_192346.pec BY-20_KFZ0001_20240607_140406.pec BN2-20_KFQ0102_20240607_141755.pec
Update Firmware	Help	Check KB Article	
Put Parameter	Set ModelName		

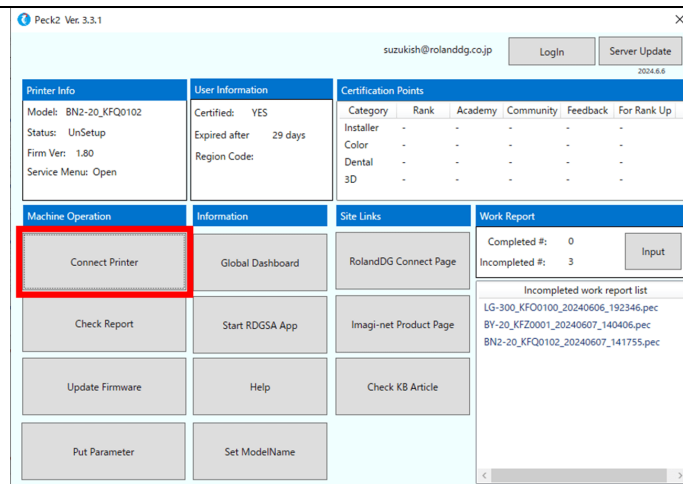
Step 44 / 52

Detail2: Log in with your Imagi-net ID.



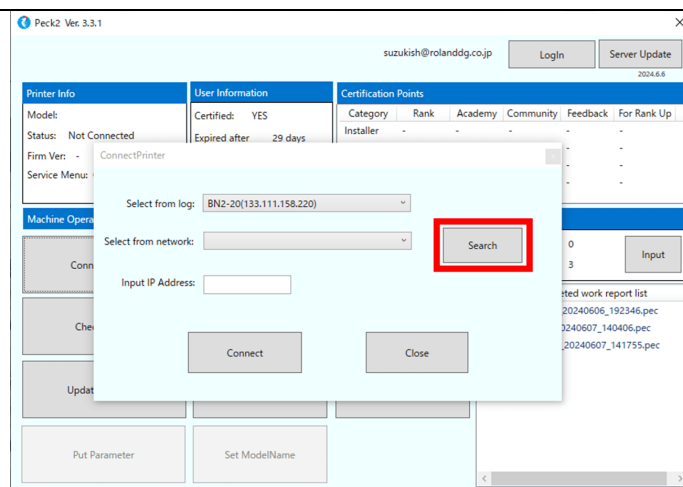
Step 45 / 52

Detail3: Click the Connect Printer button.



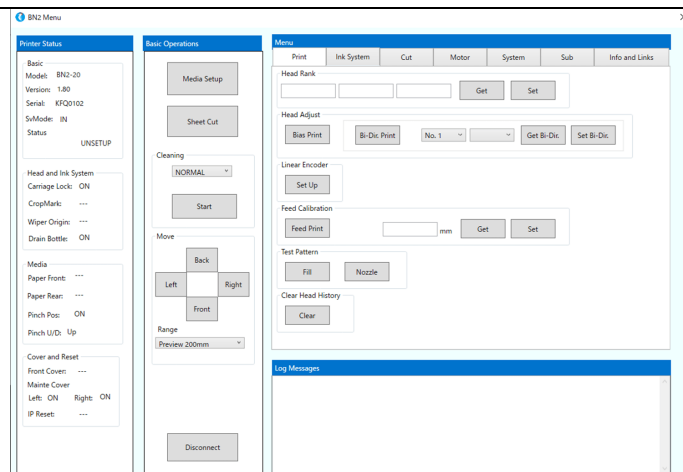
Step 46 / 52

Detail4: Use the Search button to search for the IP address of the device you want to connect to and connect. If you can not search, please check whether the IP address setting of the PC is automatically obtained.

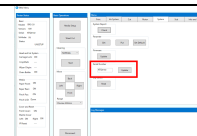


Step 47 / 52

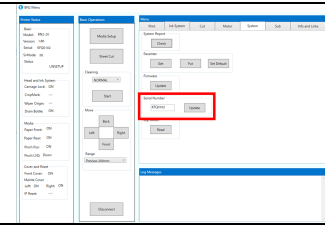
Detail5; Check that the printer information is displayed in Printer Info on the Peck2 main screen and that it is connected to the machine.



Step 48 / 52

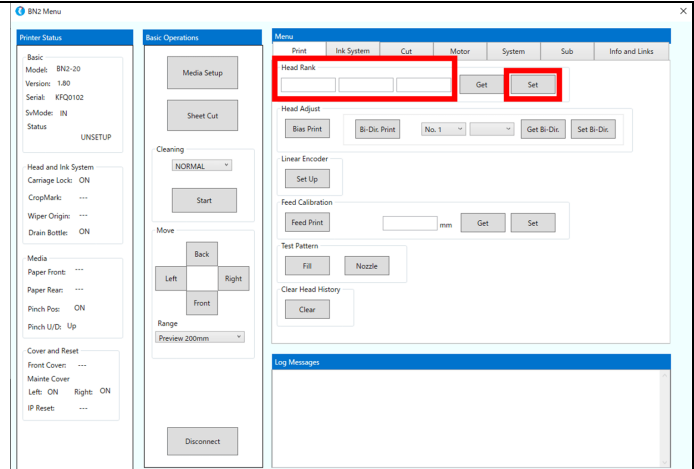


Enter the serial number of the main unit in [System] > [Serial Number] and update it.



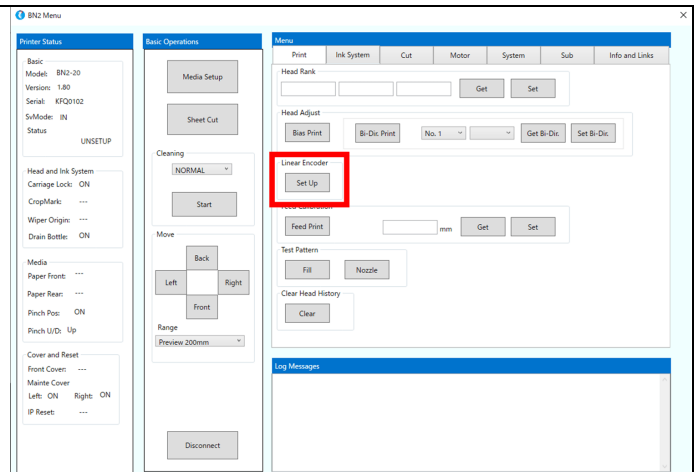
Step 49 / 52

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



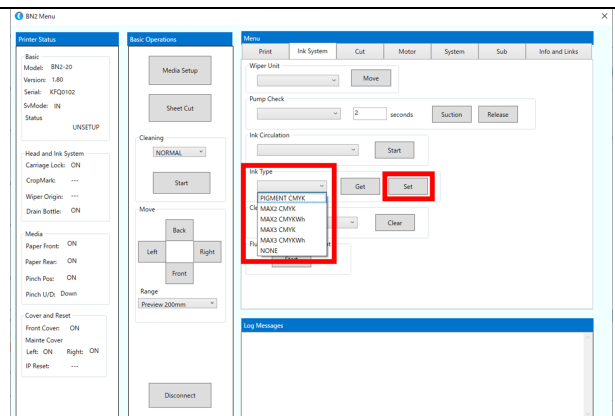
Step 50 / 52

Set up [Print] > [Linear Encoder] .



Step 51 / 52

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



Step 52 / 52

Make the following settings and finish the work.



次の手順

双方向調整
筆圧調整
距離補正
クロップカット調整
プリント/ カット位置調整

Next Step

Bi-directional adjustment
Tool pressure adjustment
Feed calibration
Crop cut adjustment
Print/cut position adjustment

BN2,BY-20 Scan motor replacement

BN2,BY-20 Scan motor replacement Information

Step 1 / 4

Aging checkMotor time clear



Step 2 / 4

Necessary tools

一般ツール/General Tool

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

Step 3 / 4

Special tools

特殊治具/Special Tools

6000004129 GREASE, FLOIL G-90Z 10ML_02	
---	---

Step 4 / 4

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
Scan モーター交換 Scan motor replacement	20 min.
エージング確認 Aging check	5 min.
モーター時間クリア Motor time clear	1 min.

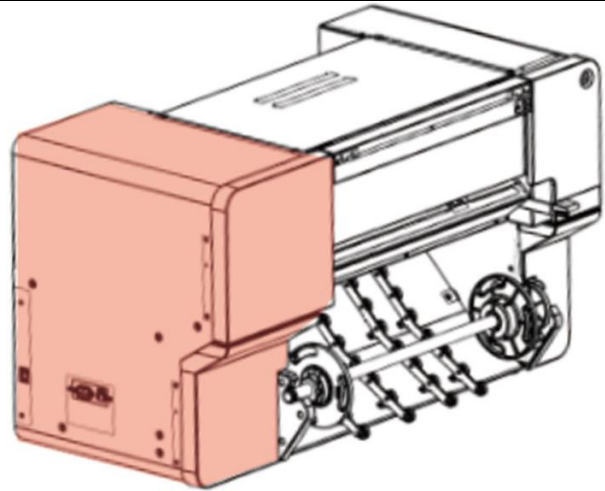
BN2,BY-20 Scan motor replacement

BN2,BY-20 Scan motor replacement

Procedure

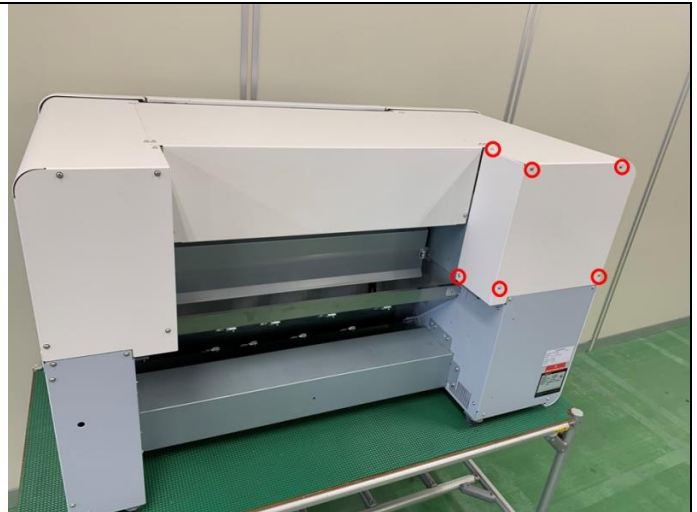
Step 1 / 26

Remove the covers.



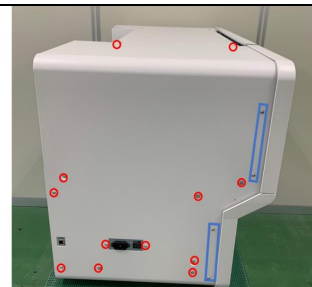
Step 2 / 26

Detail1: Remove the six screws and remove the rear cover.

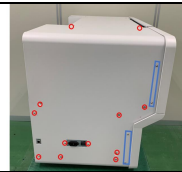


Step 3 / 26

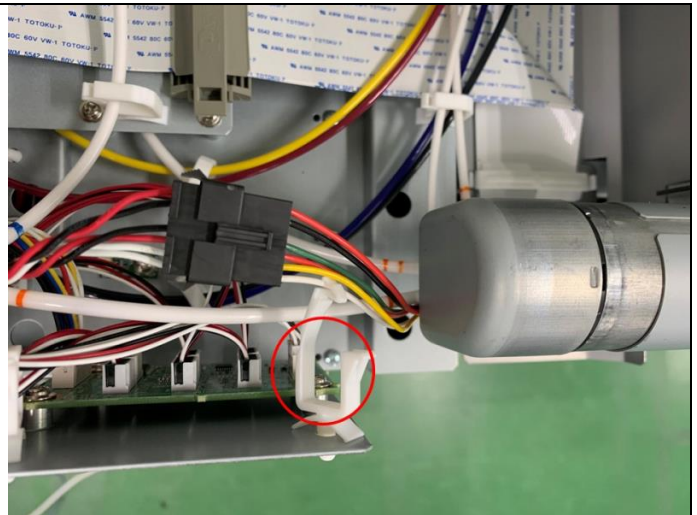
Detail2: Remove the screws and remove the side cover. Do not remove the screws indicated with blue rectangle, as these



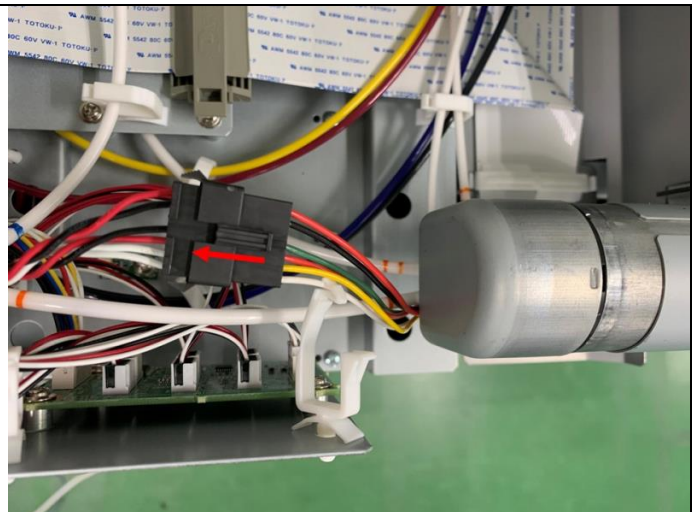
are the screws that secure the
open/close cover.



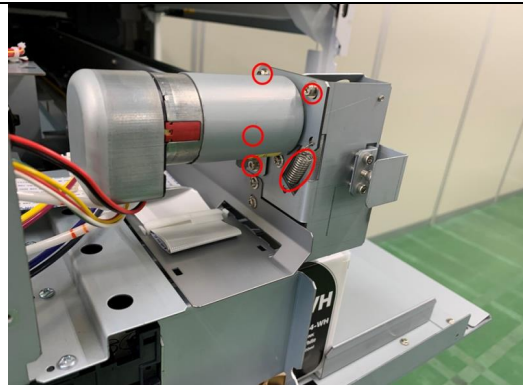
Step 4 / 26
Open the clamp.



Step 5 / 26
Disconnect the cable connected to the
scan motor.



Step 6 / 26
Remove the spring and remove the four
screws with a hex wrench.



Step 7 / 26

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



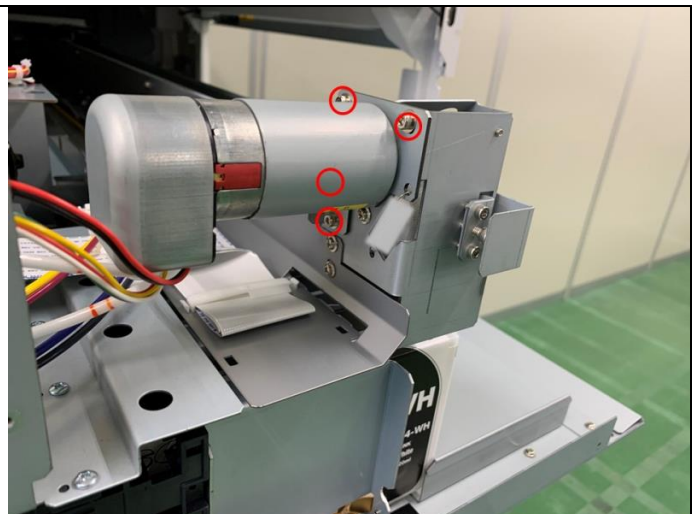
Step 8 / 26

Install the new motor on the plate. Pay attention to the orientation of the plate.



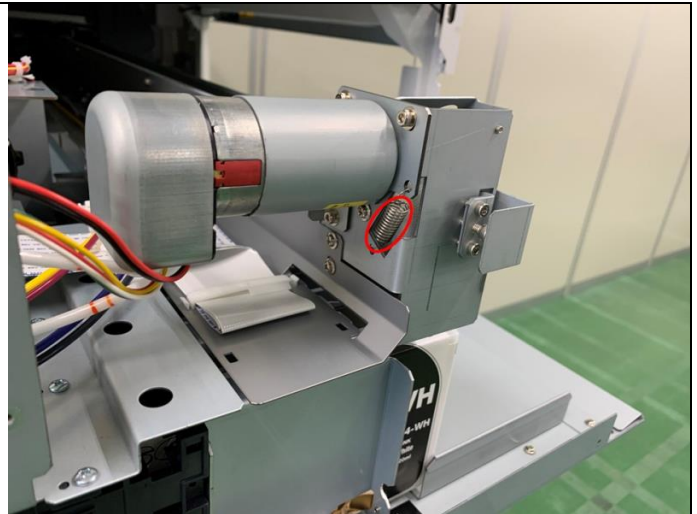
Step 9 / 26

Temporarily fasten the four screws with a hex wrench.



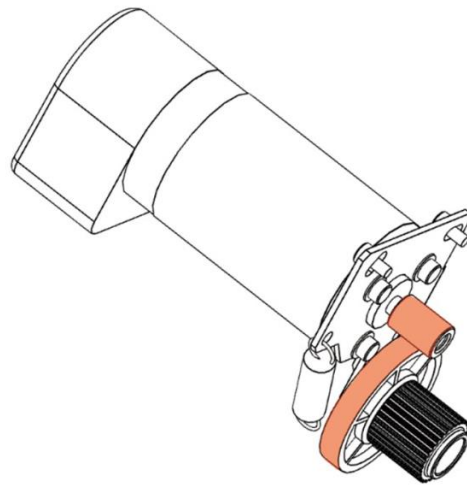
Step 10 / 26

Attach the spring.



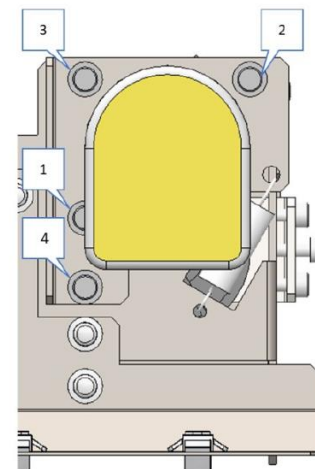
Step 11 / 26

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



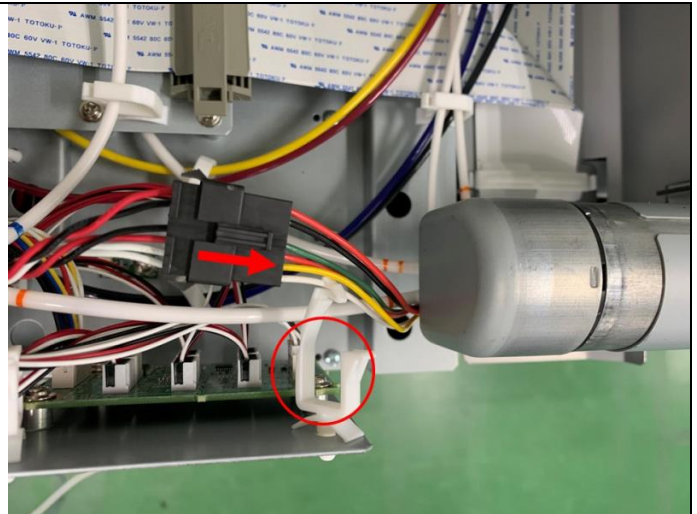
Step 12 / 26

Using a 0.8 N-m torque driver, tighten the four screws in the order shown in the figure. After that, check that there is no backlash in the gears.



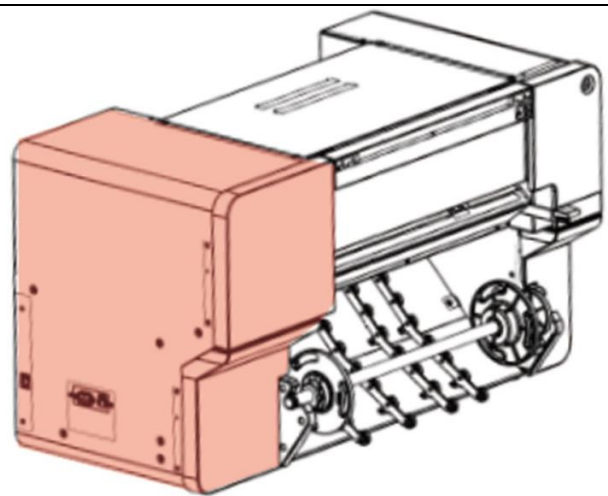
Step 13 / 26

Connect the cable leading to the scan motor and pass the cable through the clamp.



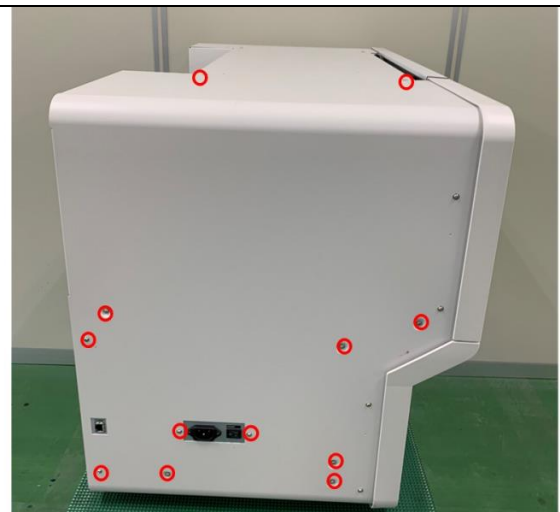
Step 14 / 26

Attach the covers.



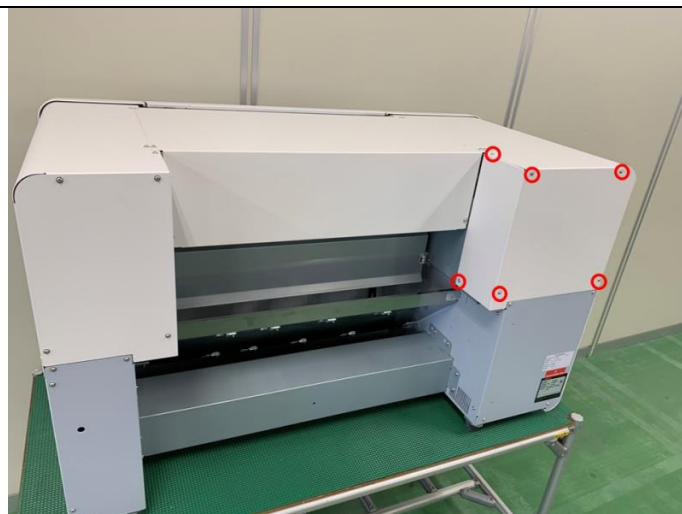
Step 15 / 26

Detail1: Attach the side cover.



Step 16 / 26

Detail2: Attach the rear cover.



Step 17 / 26

Connect Peck2 to the printer and enter Service Mode.

Peck2 Ver. 2.9.0

titoh@rolanddg.co.jp Login Server Update

Printer Info	User Information	Certification Points
Model:	Certified: YES	Category Rank Academy Community Feedback For Rank
Status: Not Connected	Expired after: 16 days	Installer - - - - -
Firm Ver: -	Region Code:	Color - - - - -
Service Menu: Close		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.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_20230606_110635.pe BN2-20_KFQ0102_20230606_134245.pe BN2-20_KFQ0102_20230531_093724.pe BN2-20_KFQ0102_20230530_170810.pe
Put Parameter			

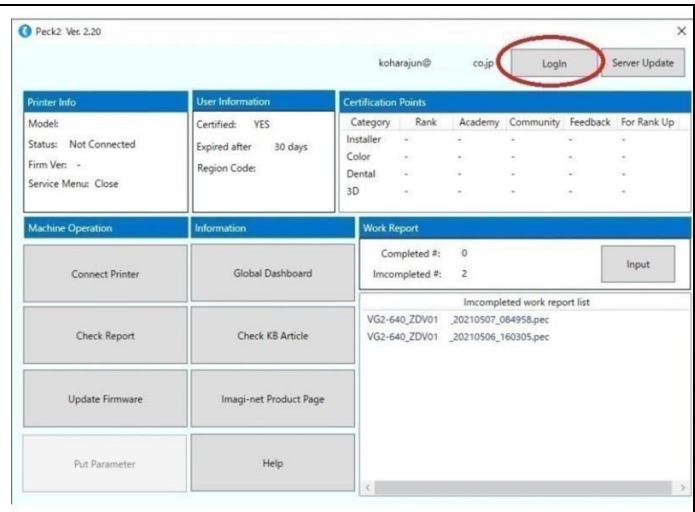
Step 18 / 26

Detail1: Start Peck2.



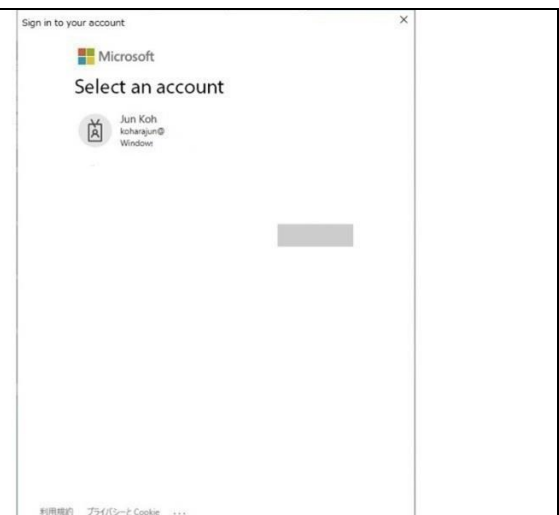
Step 19 / 26

Detail2: Click the [Login] button.



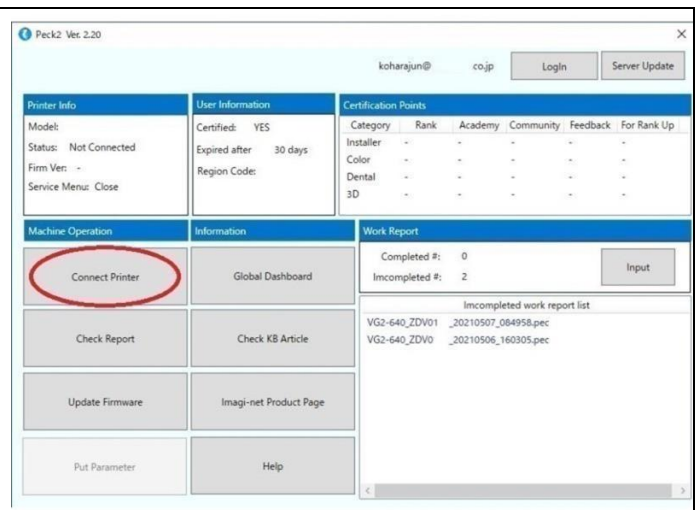
Step 20 / 26

Detail3: Login with your Imagi-net ID.



Step 21 / 26

Detail4: Click the [Connect Printer] button.



Step 22 / 26

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

Peck2 Web 2.30

koharajun@ .co.jp Login Server Update

Printer Info

Model: BN2-20A

Version: 1.00

Serial: KFKQ1152

SubModel: IN

Status: UNSETUP

User Information

Certified: YES

30 days

Certification Points

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

Work Report

Completed #: 0

Input

Imcompleted #: 2

Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Dashboard

Check Report

Check KB Article

Update Firmware

Imagi-net Product Page

Put Parameter

Help

Step 23 / 26

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

BN2 Menu

Printer Status

Basic

Model: BN2-20A

Version: 1.00

Serial: KFKQ1152

SubModel: IN

Status: UNSETUP

Head and Ink System

Carriage Lock: ON

CropMark: ---

Wiper Origin: ---

Drain Bottle: ON

Media

Paper Front: ---

Paper Rear: ---

Pinch Pos: ---

Pinch U/D: Up

Cover and Reset

Front Cover: ON

Main Cover: ON

Left: ON Right: ON

IP Reset: ---

Media Setup

Menu

Print Ink System Cut Motor System Sub Info and Links

Head Rank

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

Step 24 / 26

Load the media and set up the printer.

BN2 Menu

Printer Status

Basic

Model: BN2-20A

Version: 1.00

Serial: KFKQ1152

SubModel: IN

Status: UNSETUP

Head and Ink System

Carriage Lock: ON

CropMark: ---

Wiper Origin: ---

Drain Bottle: ON

Media

Paper Front: ---

Paper Rear: ---

Pinch Pos: ---

Pinch U/D: Up

Cover and Reset

Front Cover: ON

Main Cover: ON

Left: ON Right: ON

IP Reset: ---

Media Setup

Menu

Print Ink System Cut Motor System Sub Info and Links

Head Rank

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

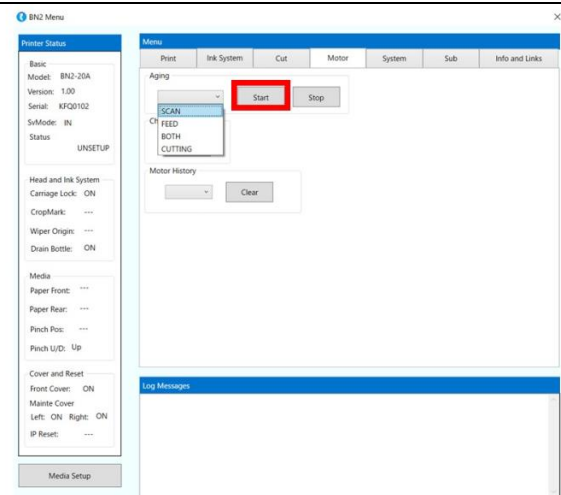
Clear Head History

Clear

Log Messages

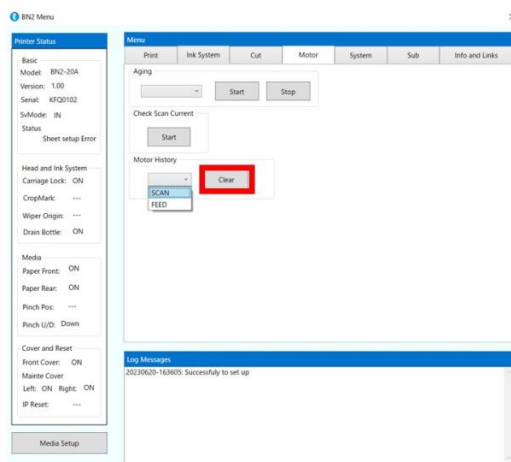
Step 25 / 26

Press [Motor] > [Asing] > [Scan] > [Start]
to start aging.



Step 26 / 26

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



BN2,BY-20 Carriage belt replacement

BN2,BY-20 Carriage belt replacement Information

Step 1 / 16

Necessary tools

一般ツール/General Tool

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

Step 2 / 16

Jigs/special tools

特殊ツール/Special Tools

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

Step 3 / 16

Typical work time

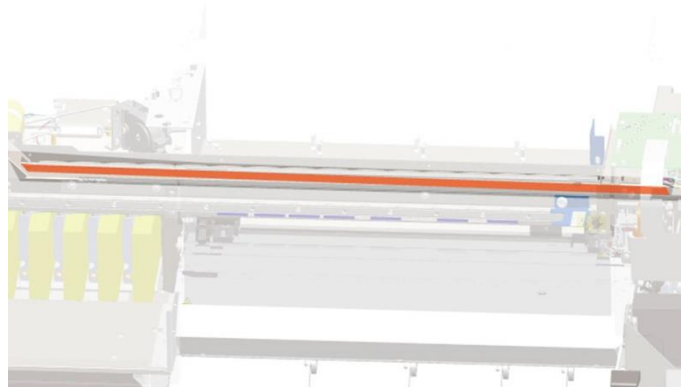
作業時間/Typical work time

作業内容/Contents of work	時間/Time
キヤリッジベルト交換 Carriage belt replacement	45 min.

Step 4 / 16

Outline diagram

概要図/Outline Diagram



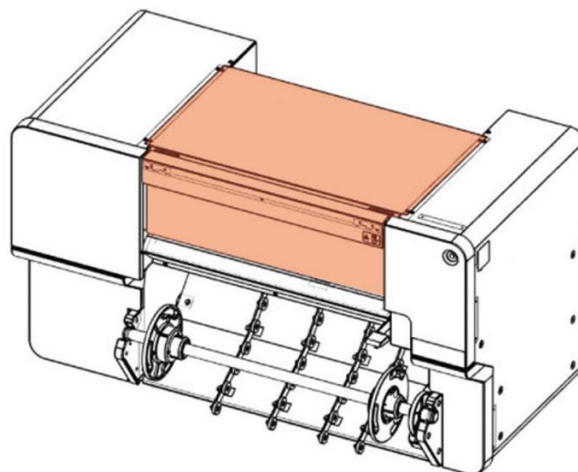
Step 5 / 16

Remove all the covers mentioned in the replacement preparation procedure and place the print head in the center of the printer. If you know the cover removal procedure, you can start with the replacement process.



Step 6 / 16

Remove the center cover and the print head cover.



Step 7 / 16

Detail1: Remove the front cover by loosening the screw on one side and sliding the bar.



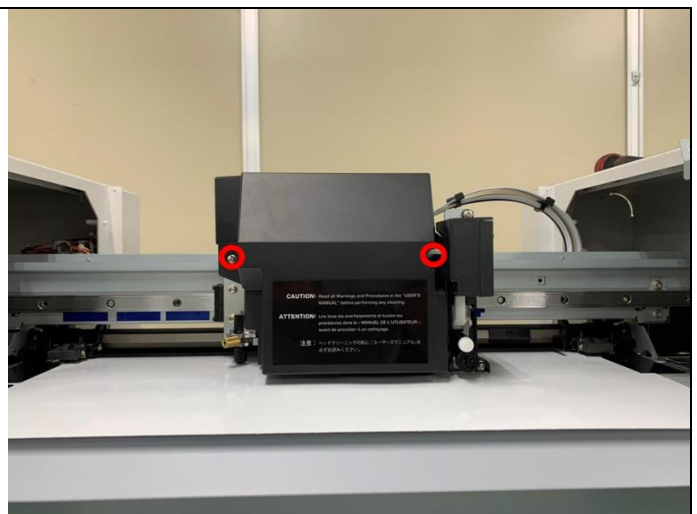
Step 8 / 16

Detail2: Remove the 7 screws on the top cover.



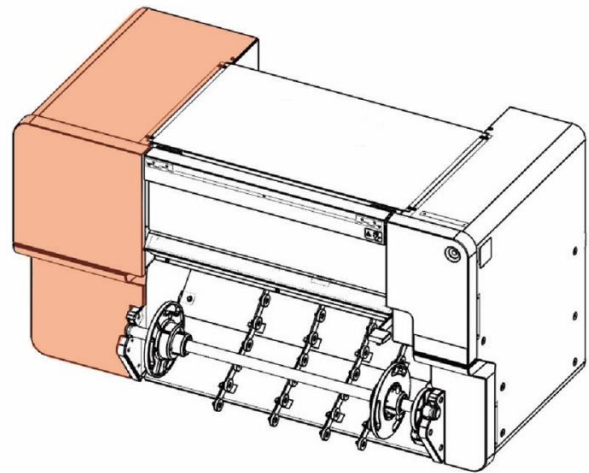
Step 9 / 16

Detail3: Remove the 2 screws and remove the print head cover.



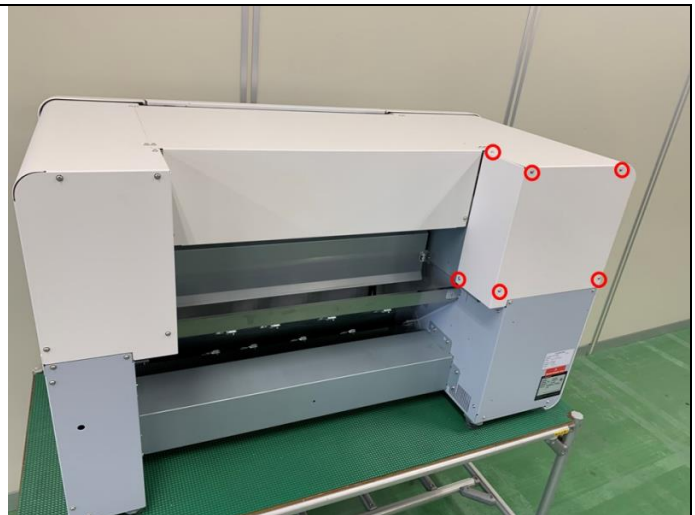
Step 10 / 16

Remove the left side cover.



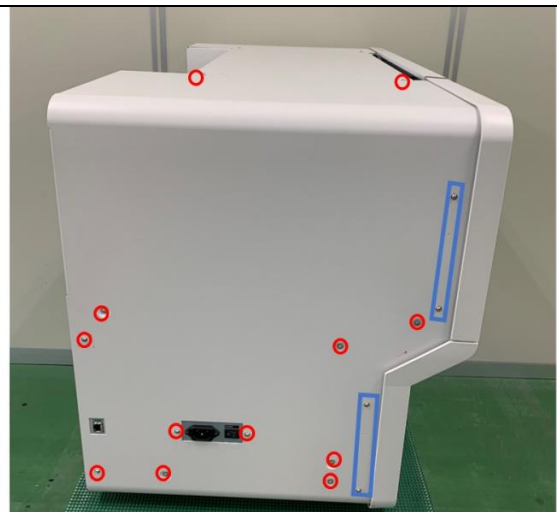
Step 11 / 16

Detail1: Remove the 6 screws and remove the back cover.



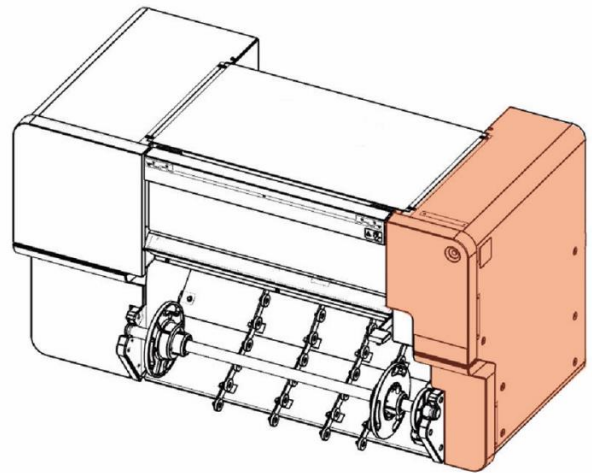
Step 12 / 16

Detail2: Remove the screws and remove the side cover. The screws indicated with blue rectangles are the screws that fix the open/close cover, so they are not removed.



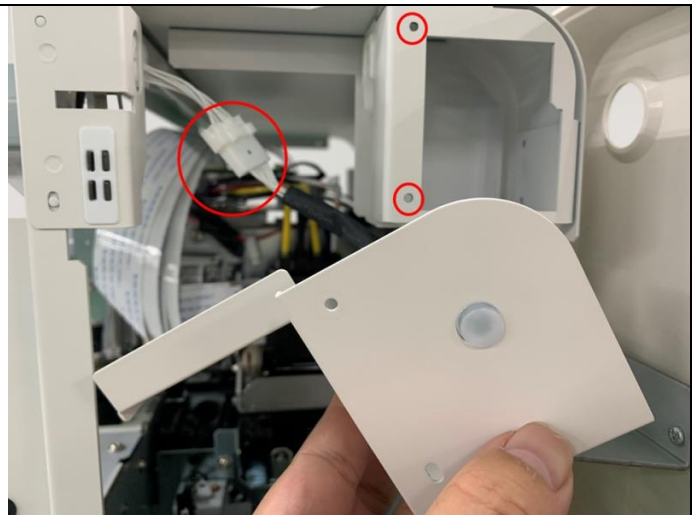
Step 13 / 16

Remove the right side cover.



Step 14 / 16

Detail1: Disconnect the connector and remove the power button.



Step 15 / 16

Detail2: Remove the 6 screws and remove the right side cover.



Step 16 / 16

Detail3: Remove the screws and remove the right side cover.



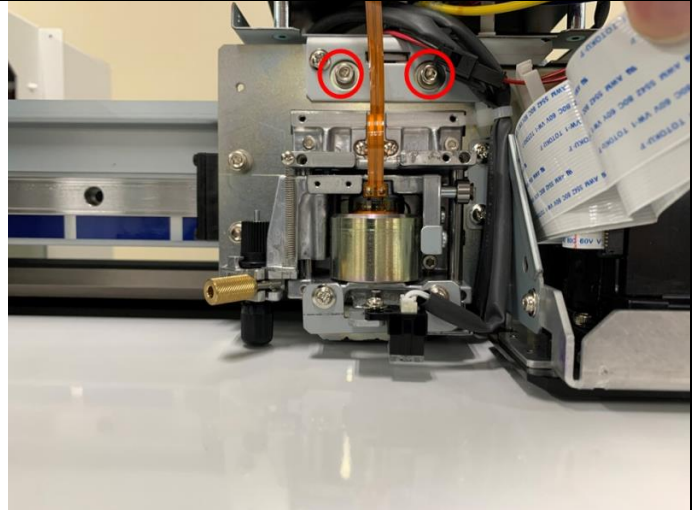
BN2,BY-20 Carriage belt replacement

BN2,BY-20 Carriage belt replacement

Procedure

Step 1 / 14

Remove the two screws to separate the carriage belt and tool carriage.



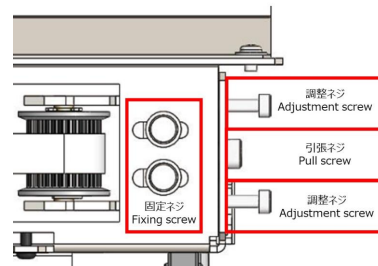
Step 2 / 14

Move the tool carriage to expose the fixed part.



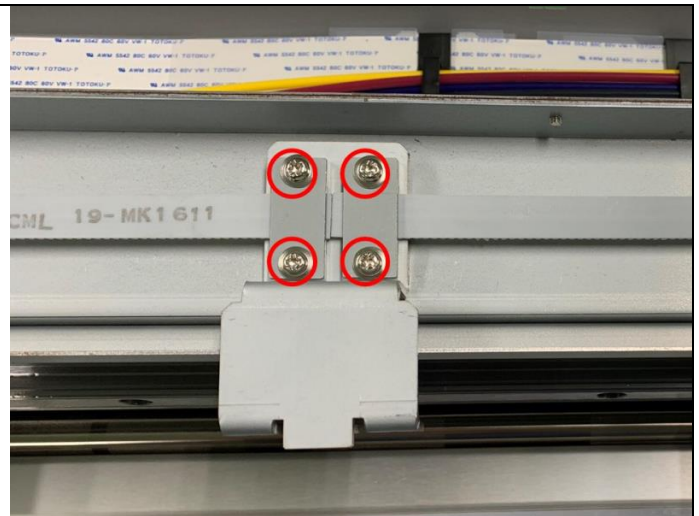
Step 3 / 14

Loosen the fixing and adjustment screws and the pull screw on the idle pulley side to allow the belt to slacken.



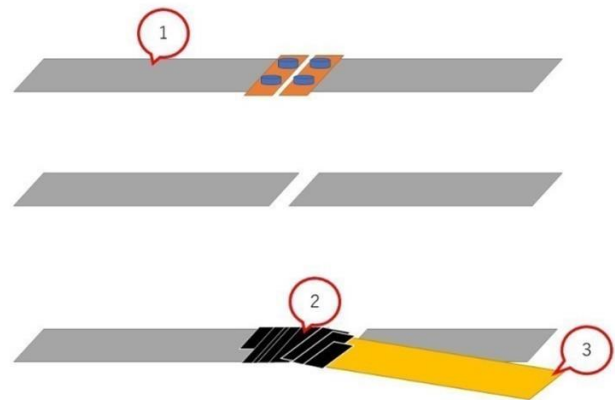
Step 4 / 14

Remove the carriage belt.



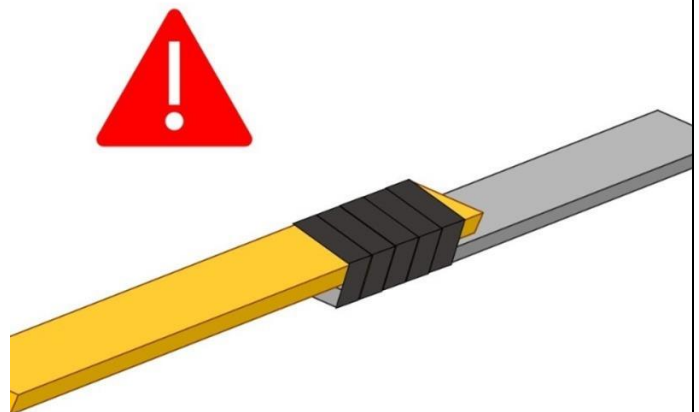
Step 5 / 14

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



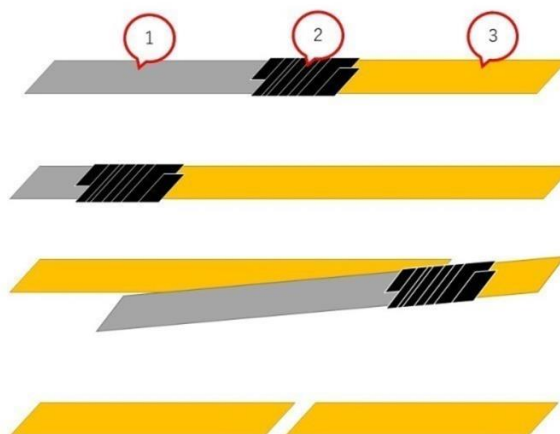
Step 6 / 14

When replacing the carriage belt, be sure to attach the new belt to the old belt, remove the old belt, and pass the new belt through. Failure to do so may result in the inability to install the new belt.



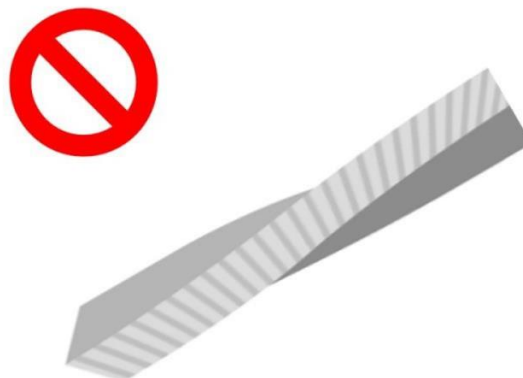
Step 7 / 14

Pull until the new carriage belt reaches the belt on the unattached side. Remove the tape after the belt has made one turn. (1. Old belt, 2. Tape, 3. New belt)



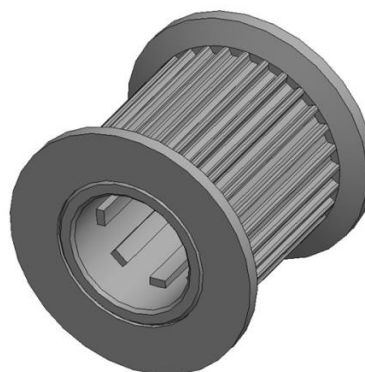
Step 8 / 14

CAUTION! Make sure the belt is not twisted.



Step 9 / 14

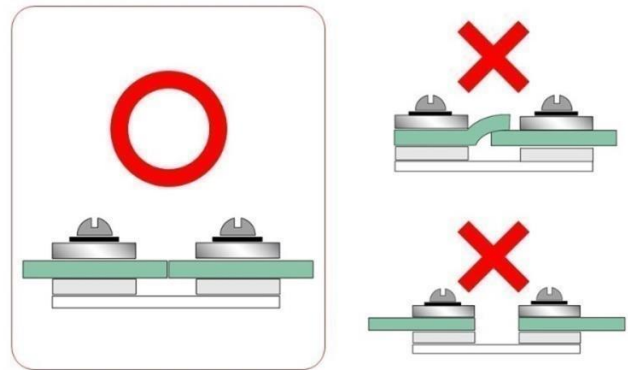
Grease the pulleys on both sides.
(Grease: FLOIL G-902 10ML_02,
Appropriate amount)



Step 10 / 14

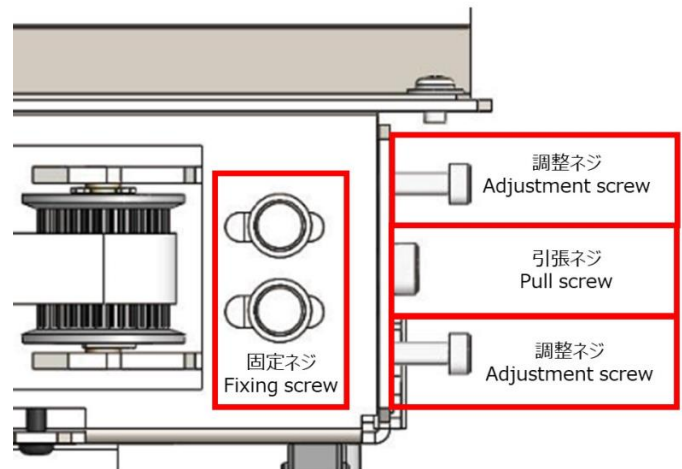
Remove the tape, attach both ends of the carriage belt with the resin plate and sheet metal plate, and attach the belt holder with screws (2 places). When installing the carriage belt, make sure that both ends of the belt do not overlap. Please pay attention to the direction of the resin plate and the order of fixing the plate.

CAUTION



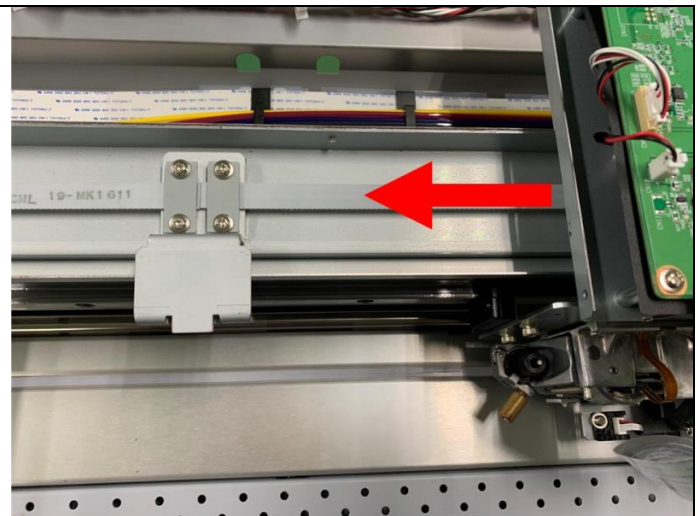
Step 11 / 14

Tighten the adjustment screw on the idle pulley side, remove the slack in the belt, and tighten it with the fixing screw. Do not overtighten the screws.



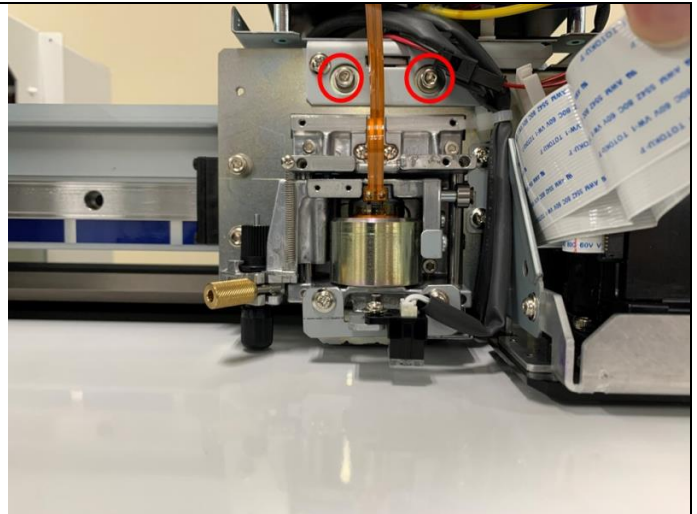
Step 12 / 14

Slide the tool carriage to align the carriage belt and the tool carriage.



Step 13 / 14

Fix the carriage belt and tool carriage with 2 screws.



Step 14 / 14

After completing the work, perform the adjustment works shown.



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

BN2,BY-20 Wiper scraper replacement

BN2,BY-20 Wiper scraper replacement Information

Step 1 / 4

Necessary tools

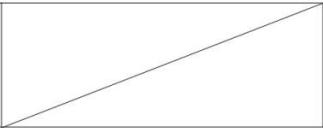
一般ツール/General Tool

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

Step 2 / 4

Jigs/special tools

特殊治具/Special Tools

無し/None	
---------	---

Step 3 / 4

Typical work time

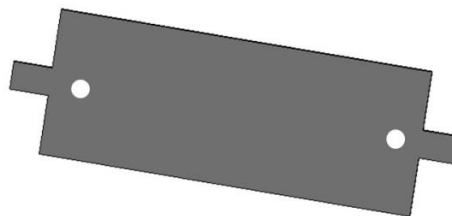
作業時間/Typical work time

作業内容/Contents of work	時間/Time
ワイパースクレーパー交換 Wiper scraper replacement	30 min.

Step 4 / 4

Outline diagram

概要図/Outline Diagram

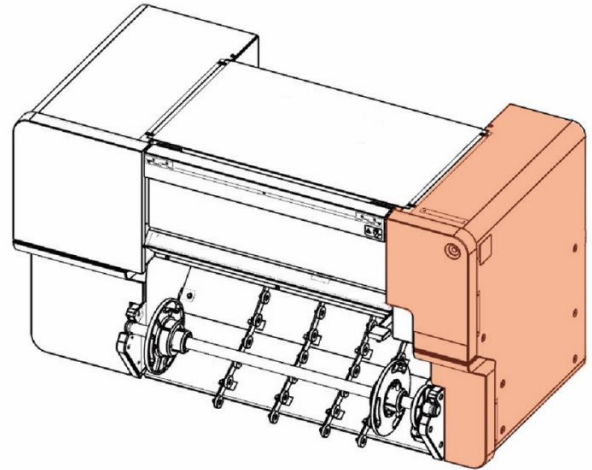


BN2,BY-20 Wiper scraper replacement

BN2,BY-20 Wiper scraper replacement Procedure

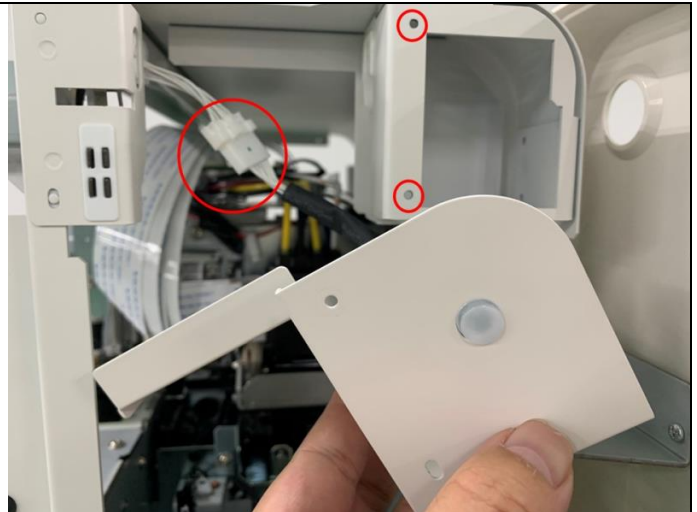
Step 1 / 20

Remove the right side cover.



Step 2 / 20

Detail1: Disconnect the connector and remove the power button.



Step 3 / 20

Detail2: Remove the 6 screws and remove the back cover.



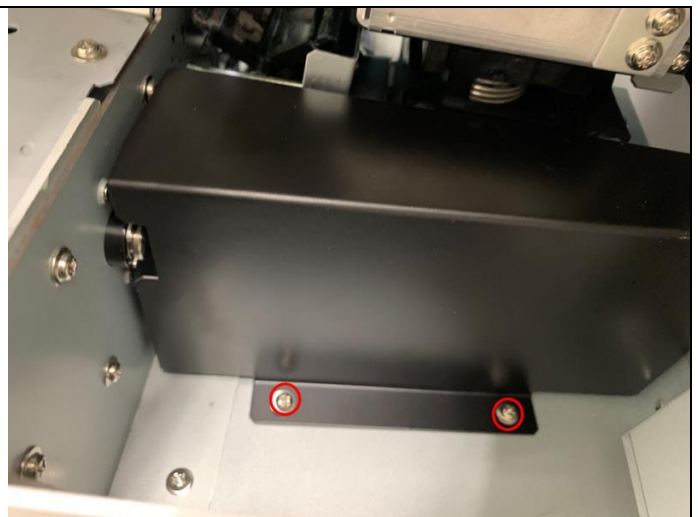
Step 4 / 20

Detail3: Remove the screws and remove the right side cover.



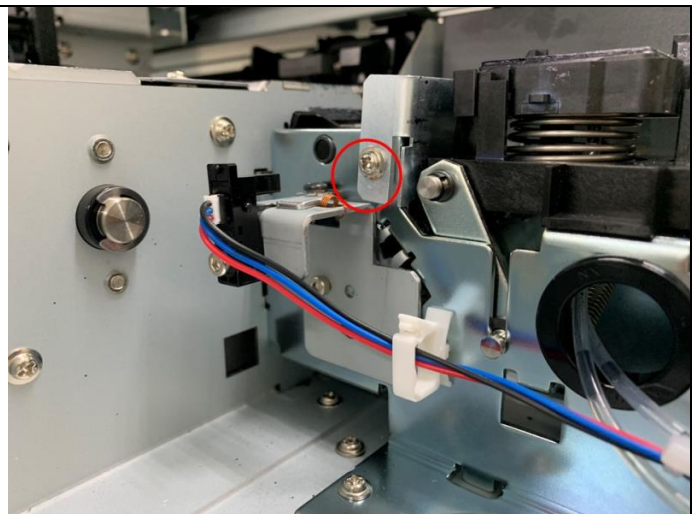
Step 5 / 20

Remove the cover in front of the cap top.



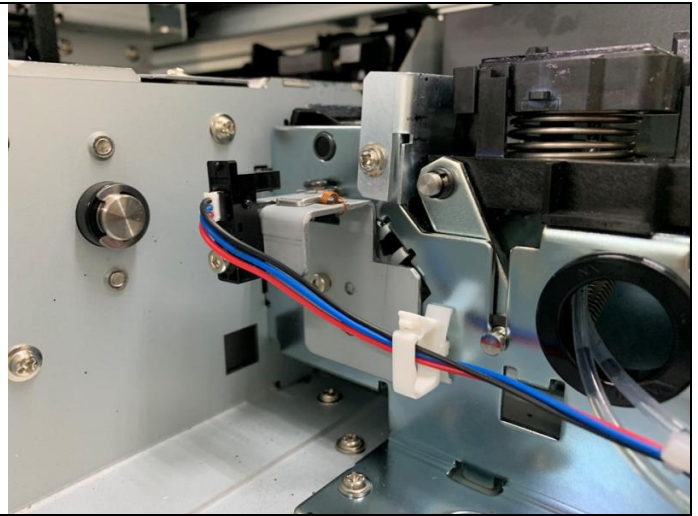
Step 6 / 20

Remove the cover on top of the wiper.



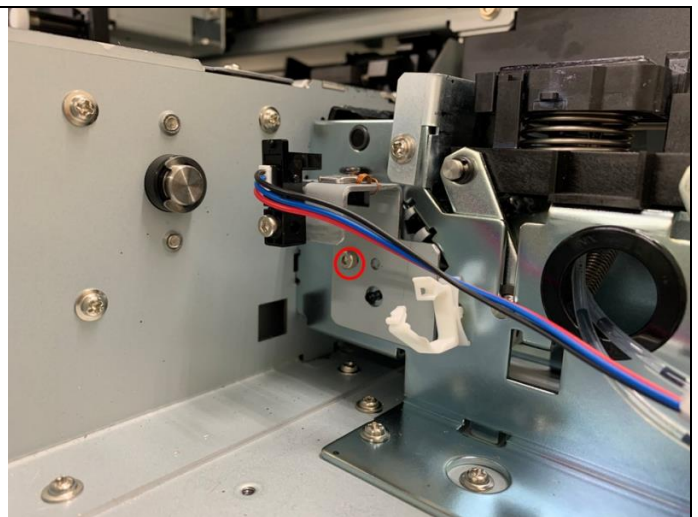
Step 7 / 20

Remove the cable clamp.



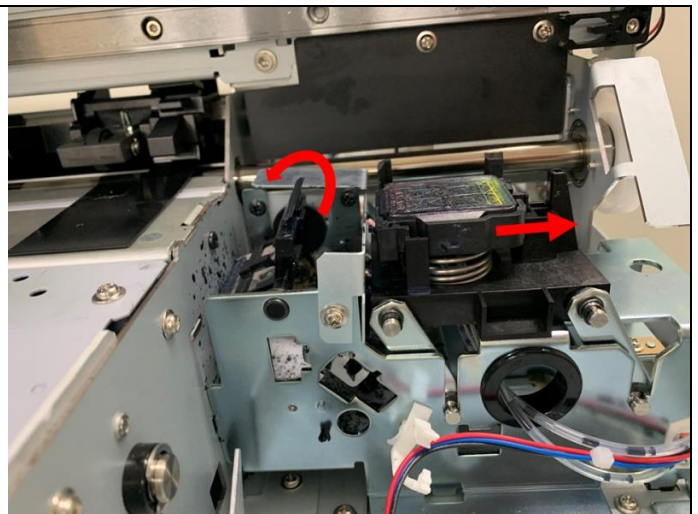
Step 8 / 20

Remove the hexagon screw holding the metal plate and remove the sensor together with the metal plate.



Step 9 / 20

Raise the wiper and move the Cap top to the right to secure work space.



Step 10 / 20

Remove the hexagon screws and remove the scraper together with the stay.



Step 11 / 20

Detail1: The right side of the stay is U-shaped, so it can be removed by simply loosening it.



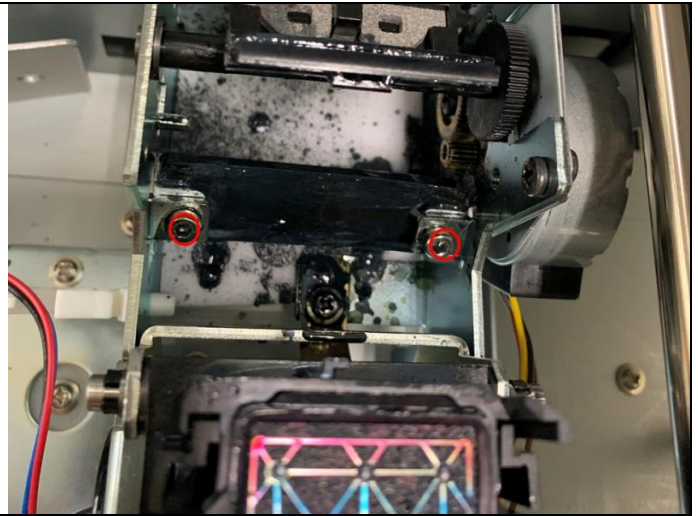
Step 12 / 20

Attach the new scraper to the stay.



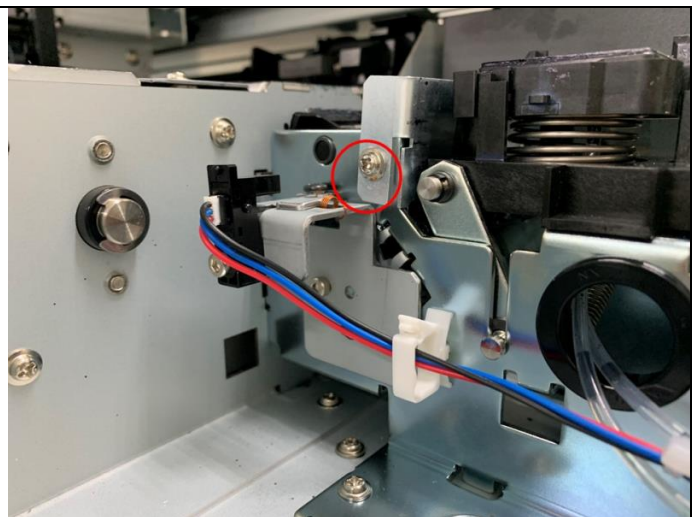
Step 13 / 20

Attach the scraper with the hex screw.



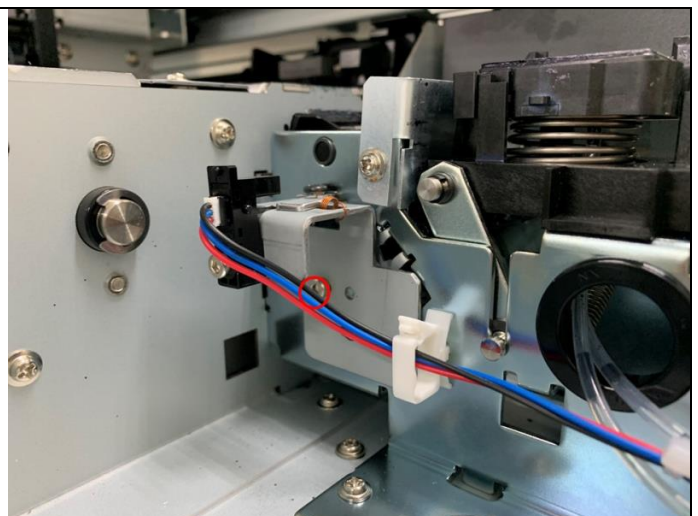
Step 14 / 20

Attach the cover on top of the wiper.



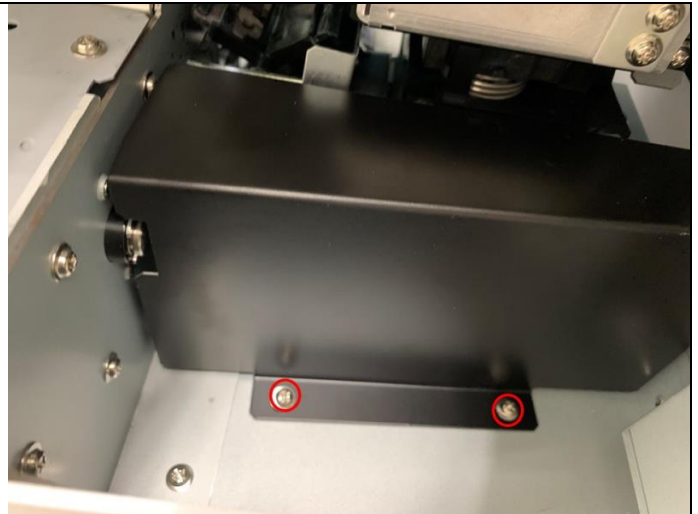
Step 15 / 20

Attach the sensor and the cable to the cable tie.



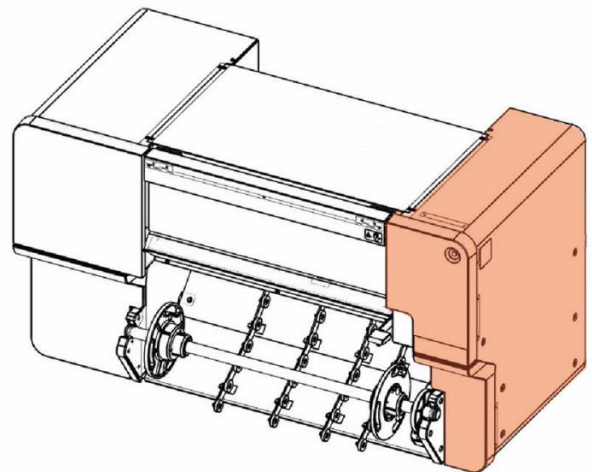
Step 16 / 20

Attach the black cover in front of the Cap top.



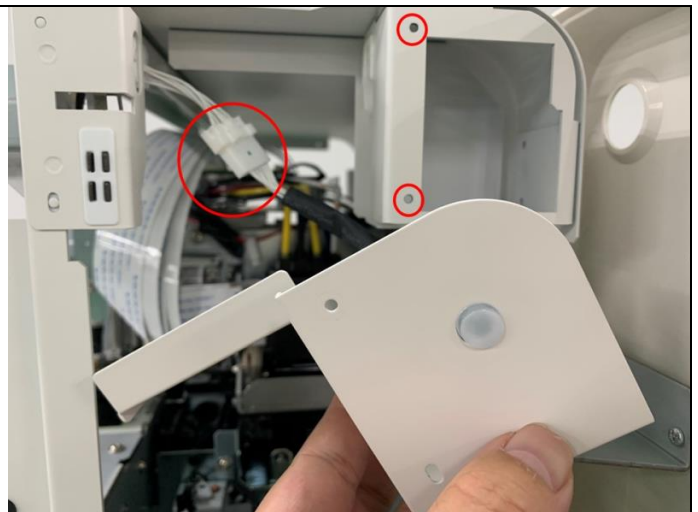
Step 17 / 20

Attach the right side cover.



Step 18 / 20

Detail1: Fit the connector and attach the power button with two screws.



Step 19 / 20

Detail2: Attach the right side cover.



Step 20 / 20

Detail3: Attach the right rear cover with 6 screws.



BN2,BY-20 Tool carriage replacement

BN2,BY-20 Tool carriage replacement

Information

Step 1 / 9

Tool height adjustment
Tool pressure adjustment
Crop-cut adjustment



Step 2 / 9

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

Step 3 / 9

Typical work time

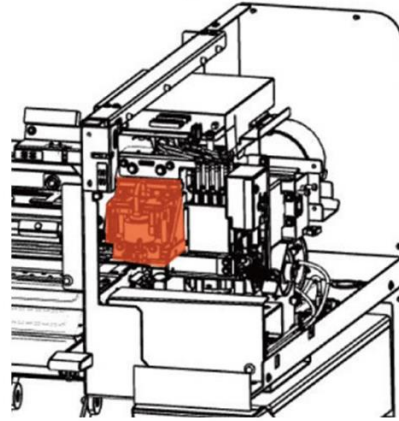
作業時間/Typical work time

作業内容/Contents of work	時間/Time
ツールキヤリッジ交換 Tool carriage replacement	10 min.

Step 4 / 9

Outline diagram

概要図/Outline Diagram



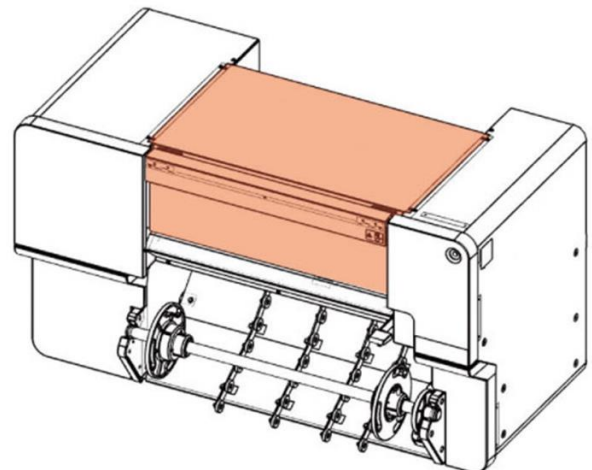
Step 5 / 9

Remove the print head carriage cover and move the carriage in the center of the bed.



Step 6 / 9

Detail1: Cover that needs to be removed



Step 7 / 9

Detail2: Remove the front cover by loosening the screw on one side and sliding the bar.



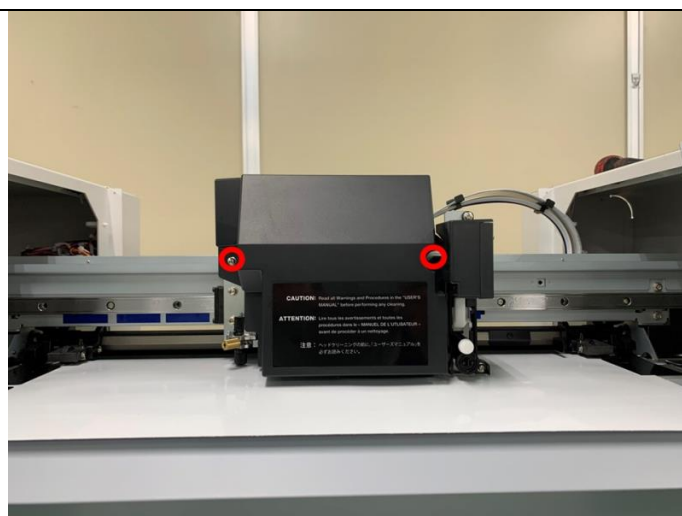
Step 8 / 9

Detail3: Remove the 7 screws on the TOP cover.



Step 9 / 9

Detail4: Remove the head cover by unscrewing two screws.



BN2,BY-20 Tool carriage replacement

BN2,BY-20 Tool carriage replacement Procedure

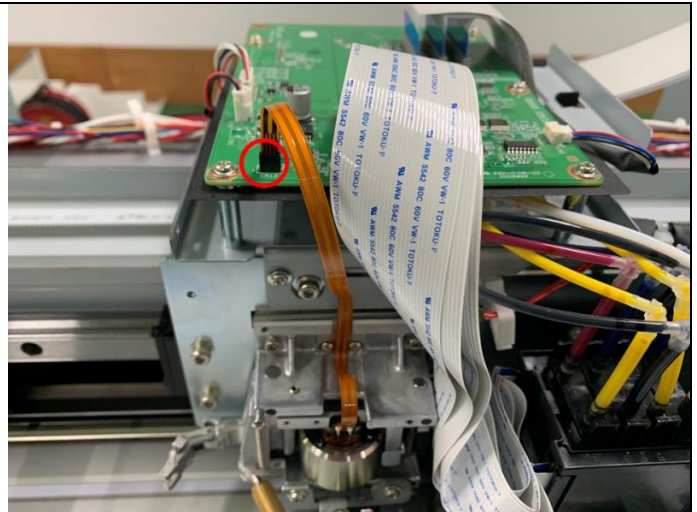
Step 1 / 19

Remove the connector from the sensor.



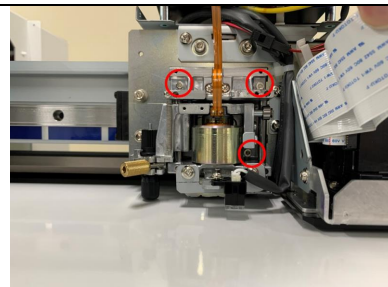
Step 2 / 19

Remove the ribbon cable from the carriage board.



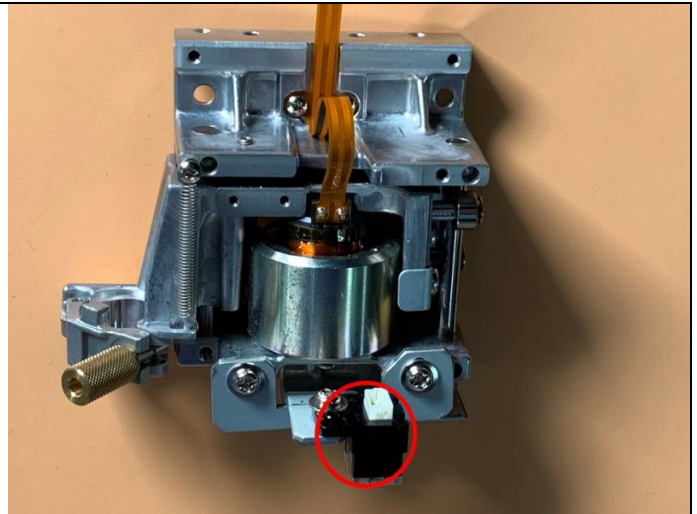
Step 3 / 19

Remove the tool carriage by unscrewing 3 screws.



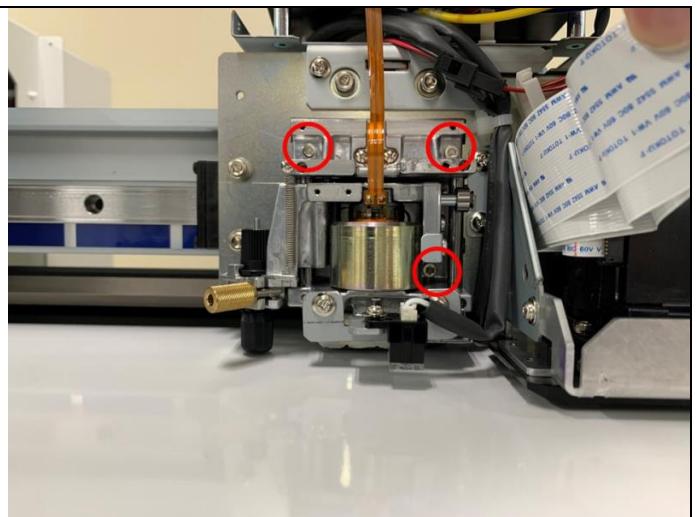
Step 4 / 19

Replace the multi-color sensor with the new tool carriage.



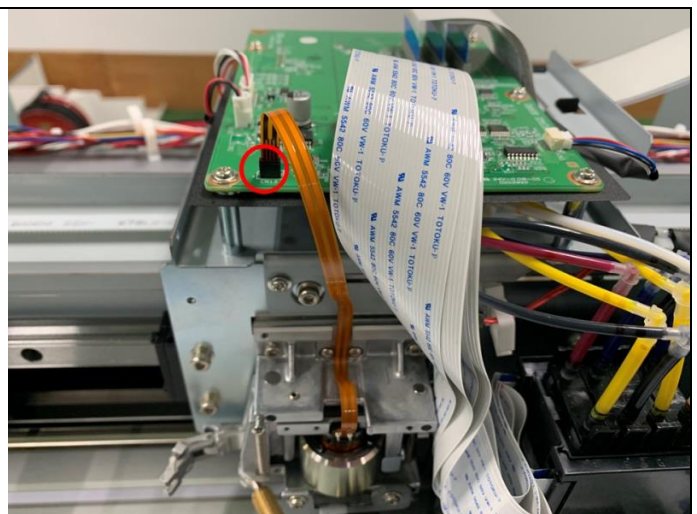
Step 5 / 19

Attach the tool carriage with the three screws.



Step 6 / 19

Attach the flexible cable to the carriage board.



Step 7 / 19

Connect the connector to the multi-color sensor and adjust the height with a simple jig.



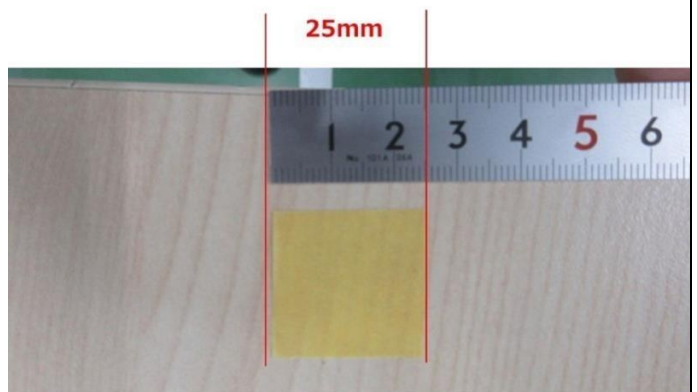
Step 8 / 19

Make a 7.7 mm thick simple jig by fastening a 5.0 mm hexagonal wrench and a 2.5 mm hexagonal wrench with masking tape. A Thickness Gauge is also acceptable.



Step 9 / 19

Detail1: Cut the masking tape to about 25 mm. If the masking tape is too long, the thickness of the tape will change the target value.



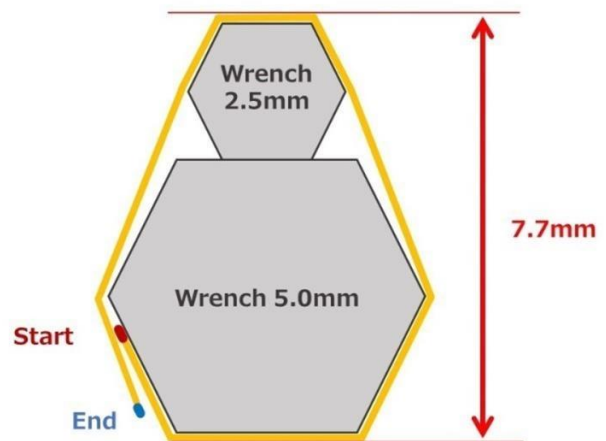
Step 10 / 19

Detail2: Wrap the masking tape around the hexagonal wrench while holding it against each other.



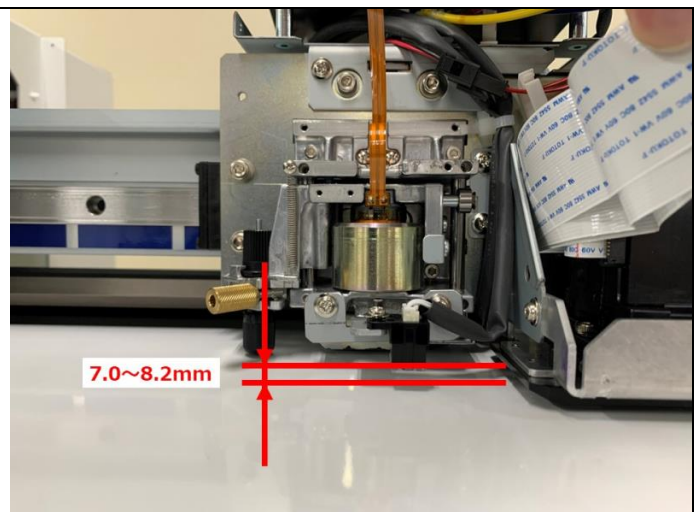
Step 11 / 19

Detail3: Reference figure



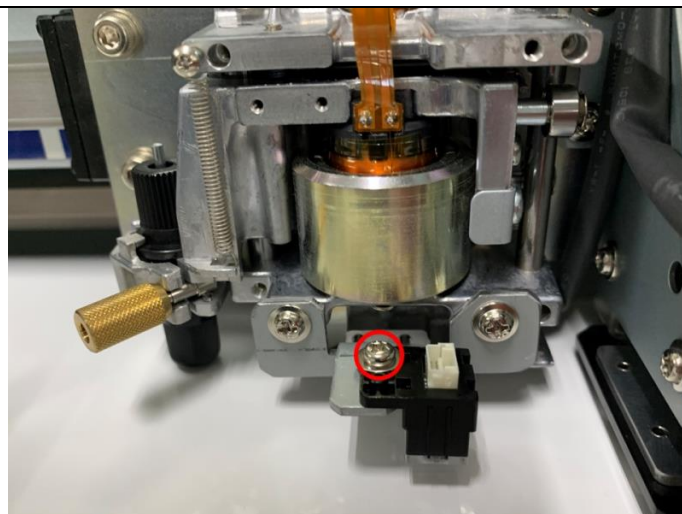
Step 12 / 19

Detail4: The adjustment range between the platen surface and the sensor surface is 7 mm to 8.2 mm. The sensor must be installed parallel to the platen.



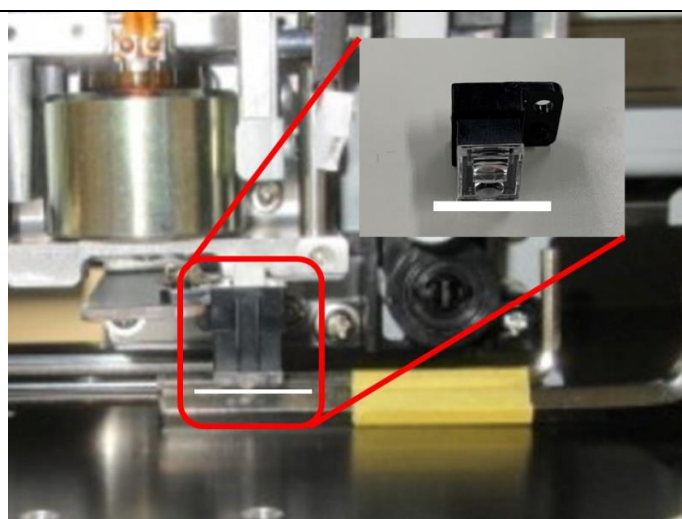
Step 13 / 19

Loosen the screw securing the sensor by about 1/2 turn. If the screw is loosened too much, the adjustment cannot be performed correctly.



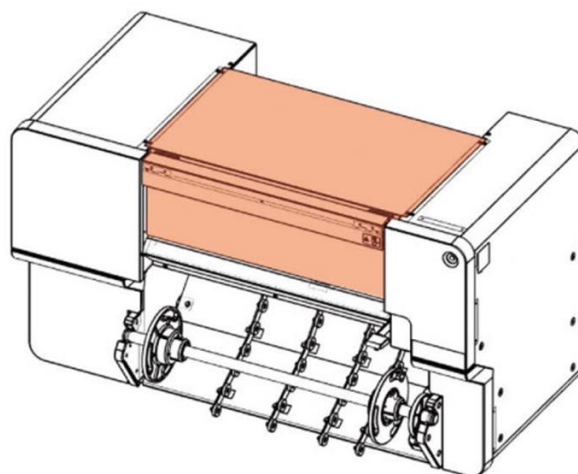
Step 14 / 19

To mount the sensor parallel to the platen, place a simple jig on the back side of the sensor in a horizontal position under the sensor. Tighten the screws by placing them on the flat part of the sensor, not the convex part.



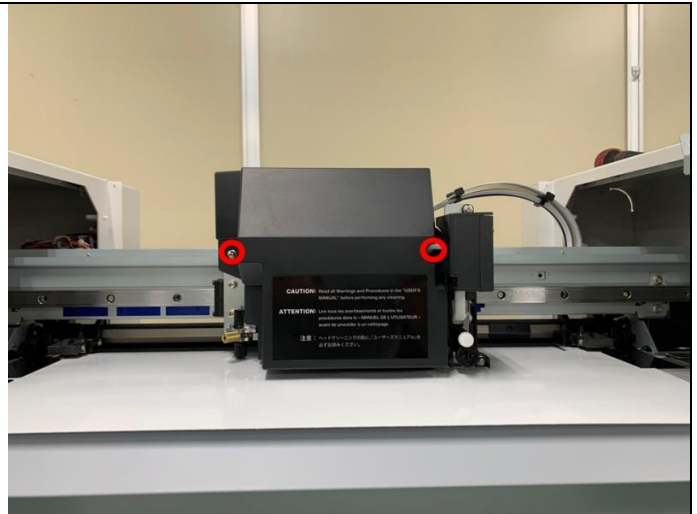
Step 15 / 19

Replace the removed cover.



Step 16 / 19

Detail1: Attach the head cover with two screws.



Step 17 / 19

Detail2: Attach the TOP cover with 7 screws.



Step 18 / 19

Detail3: Attach the front cover by loosening the screw on one side and sliding the bar.



Step 19 / 19

Finish the work.



次の手順

ツールの高さ調整
筆圧調整
マルチセンサー調整

Next Step

Tool height adjustment
Tool pressure adjustment
Multi-sensor adjustment

BN2,BY-20 Multi sensor replacement

BN2,BY-20 Multi sensor replacement

Information

Step 1 / 4

Multi sensor adjustment



Step 2 / 4

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	
テープ Tape	

Step 3 / 4

Necessary tools

一般ツール/General Tool

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

Step 4 / 4

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
マルチセンサー交換 Multi sensor replacement	15 min.
マルチセンサー調整 Multi sensor adjustment	5 min.

BN2,BY-20 Multi sensor replacement

BN2,BY-20 Multi sensor replacement

Procedure

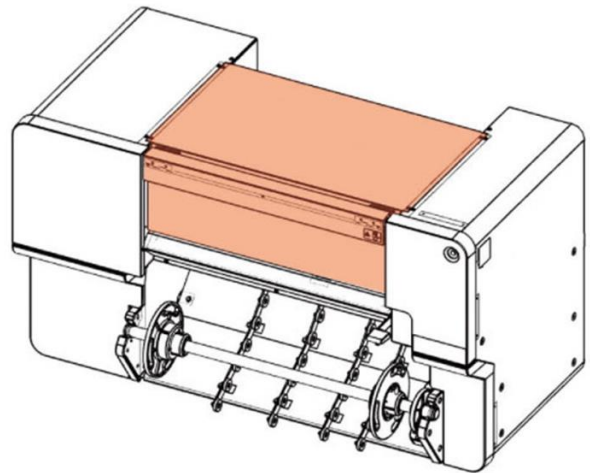
Step 1 / 19

Remove the cover and place carriage in the center of the bed so that print heads are visible.



Step 2 / 19

Detail1: Covers that need to be removed



Step 3 / 19

Detail2: Remove the front cover by loosening the screw on the left side of the cover and sliding the bar.



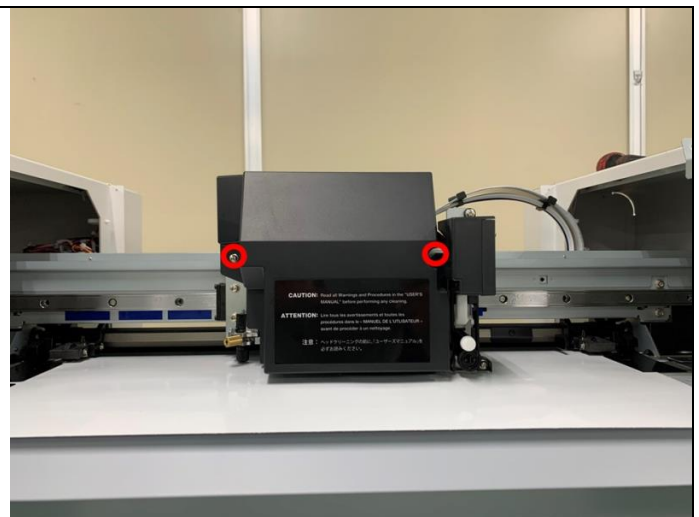
Step 4 / 19

Detail3: Remove the 7 screws on the TOP cover.



Step 5 / 19

Detail4: Remove the print head cover by removing the 2 screws.



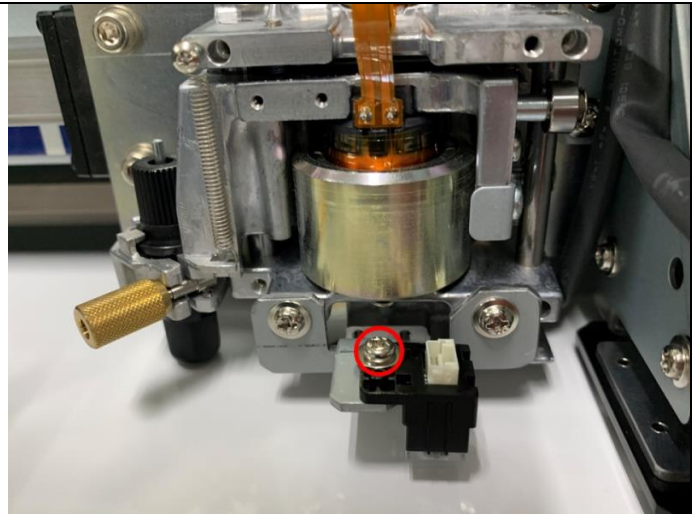
Step 6 / 19

Remove the connector from the sensor.



Step 7 / 19

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



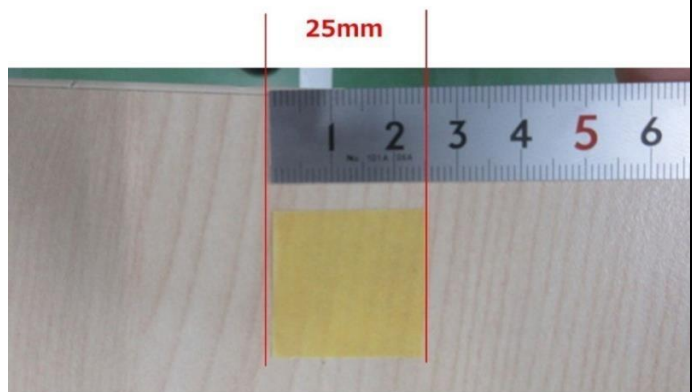
Step 8 / 19

Fasten the hexagonal wrenches (5.0 mm and 2.5 mm) with masking tape to make a simple jig of 7.7 mm thickness. A thickness gauge can also be used.



Step 9 / 19

Detail1: Cut the masking tape to about 25 mm. If the masking tape is too long, the thickness of the tape will change the target value.



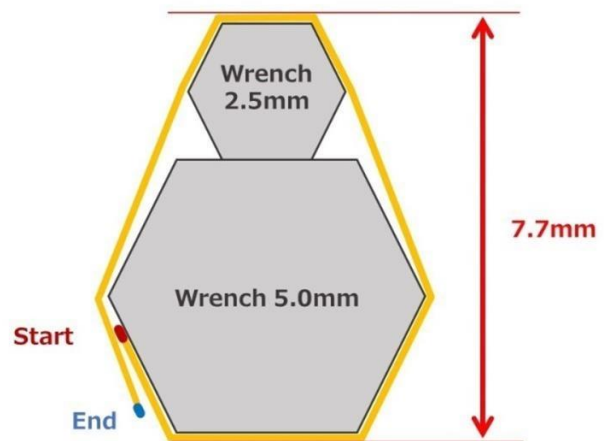
Step 10 / 19

Detail2: Wrap the masking tape around the wrenches, placing them against each other.



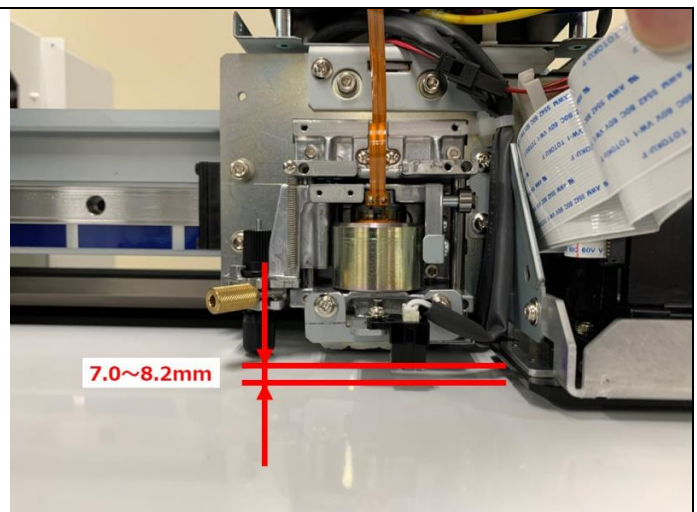
Step 11 / 19

Detail3: Reference figure



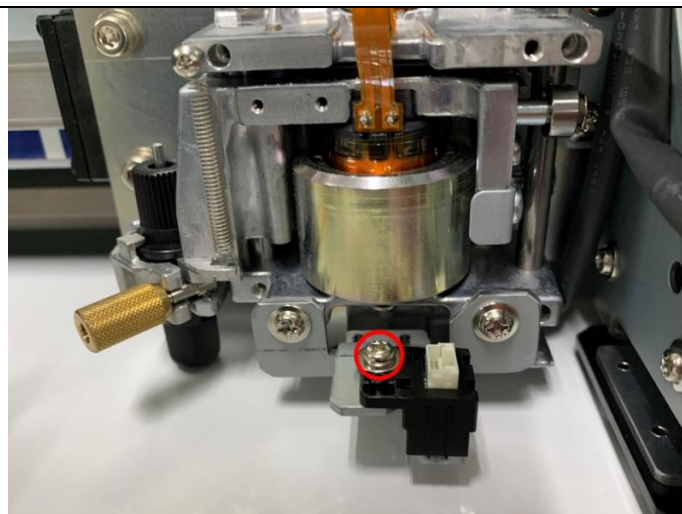
Step 12 / 19

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



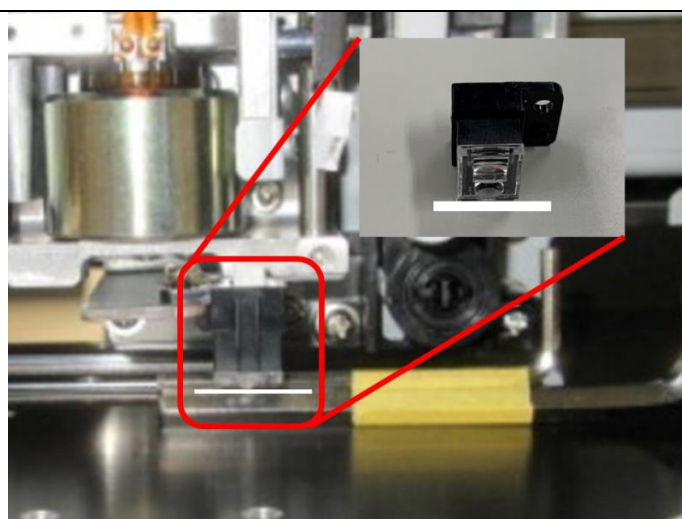
Step 13 / 19

Loosen the screw securing the sensor by about 1/2 turn. If the screw is loosened too much, the adjustment cannot be performed correctly.



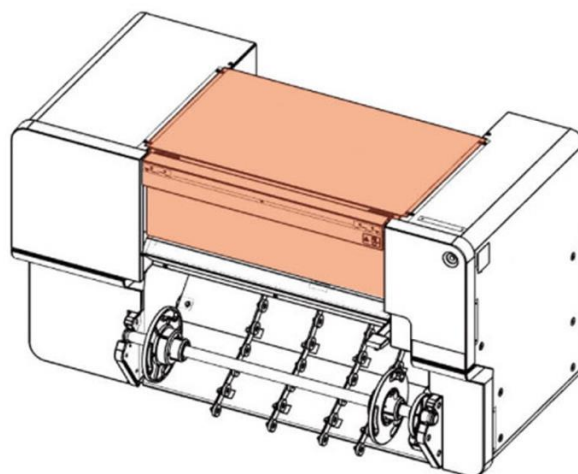
Step 14 / 19

Set the jig on the far side of the sensor. When setting, be careful that the jig does not touch the convex part. Then tighten the screws.



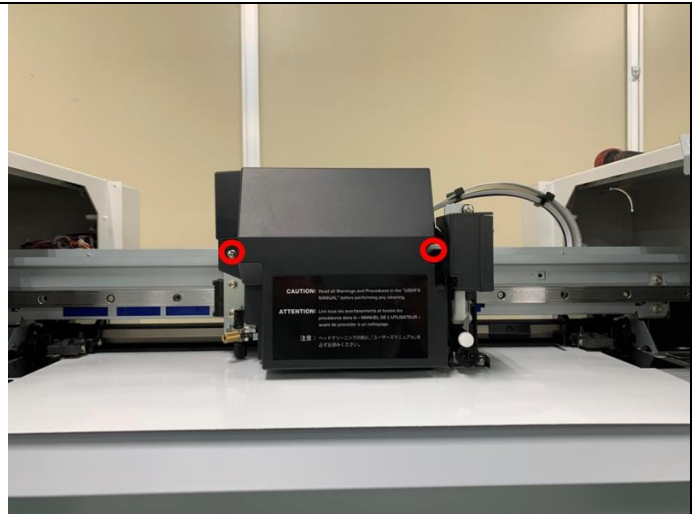
Step 15 / 19

Attach the removed covers.



Step 16 / 19

Detail1: Attach the print head cover with 2 screws.



Step 17 / 19

Detail2: Attach the TOP cover with 7 screws.



Step 18 / 19

Detail3: Attach the front cover by loosening the left screw and sliding the bar.



Step 19 / 19

Perform Multi sensor adjustment.



次の手順

マルチセンサー調整

Next Step

Multi sensor adjustment

BN2,BY-20 Pinchroller replacement

BN2,BY-20 Pinchroller replacement Information

Step 1 / 4

Necessary Tools

一般ツール/General Tool

マイナスドライバー Flat-head screwdriver	
ラジオペンチ Radio pliers	

Step 2 / 4

Jigs/special tools

特殊治具/Special Tools

無し None	
------------	---

Step 3 / 4

Typical work time

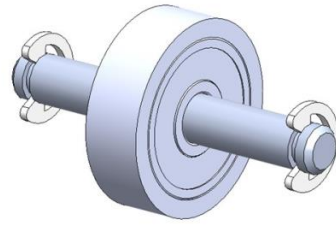
作業時間/Typical work time

作業内容/Contents of work	時間/Time
ピンチローラー交換 Pinchroller replacement	5 min.

Step 4 / 4

Outline diagram

概要図/Outline Diagram



BN2,BY-20 Pinchroller replacement

BN2,BY-20 Pinchroller replacement

Procedure

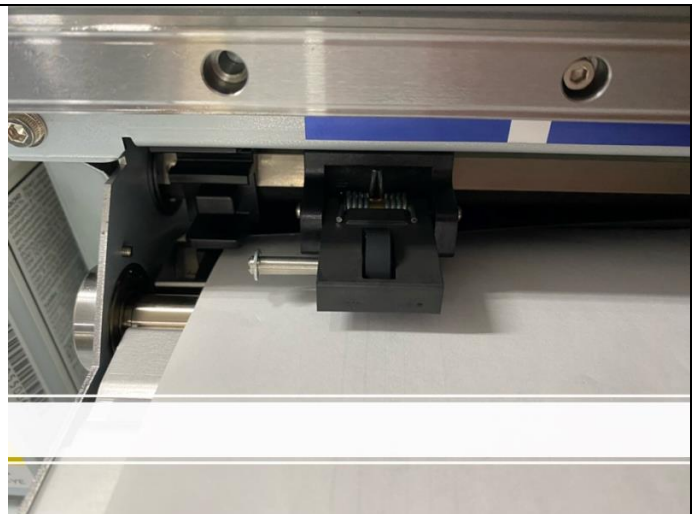
Step 1 / 4

Remove either the left or right E-ring using a flathead screwdriver or the like. When removing, place a paper or something similar to prevent the E-ring from falling into the printer.



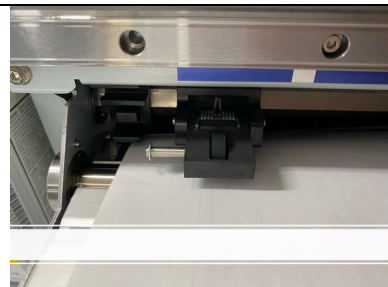
Step 2 / 4

Pull out the shaft and remove the pinch roller.



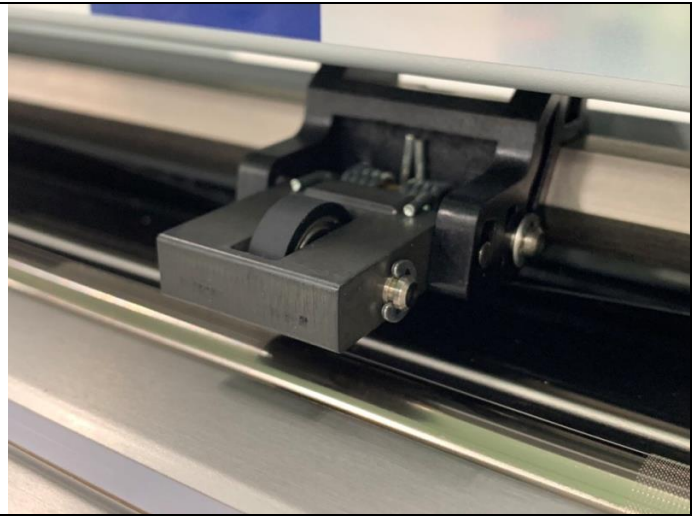
Step 3 / 4

Attach a new pinch roller and pass the shaft through.



Step 4 / 4

Fix the shaft with an E-ring.



BN2,BY-20 Pinchroller assy replacement

BN2,BY-20 Pinchroller assy replacement

Information

Step 1 / 3

Necessary tools

一般ツール/General Tool

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



六角レンチ 2.5mm
2.5mm hexagonal wrench



Step 2 / 3

Typical work time

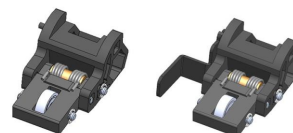
作業時間/Typical work time

作業内容/Contents of work	時間/Time
ピンチローラーASSY交換 Pinchroller assy replacement	30 min.

Step 3 / 3

Outline diagram

概要図/Outline Diagram



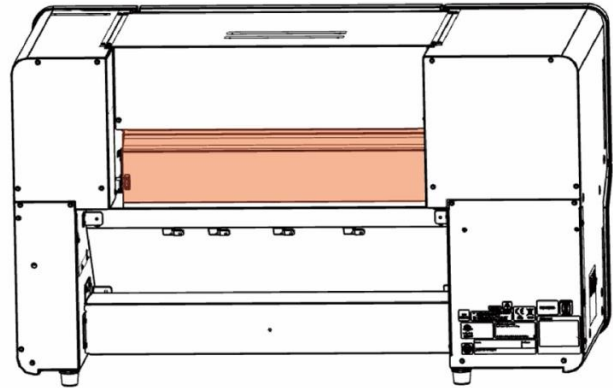
BN2,BY-20 Pinchroller assy replacement

BN2,BY-20 Pinchroller assy replacement

Procedure

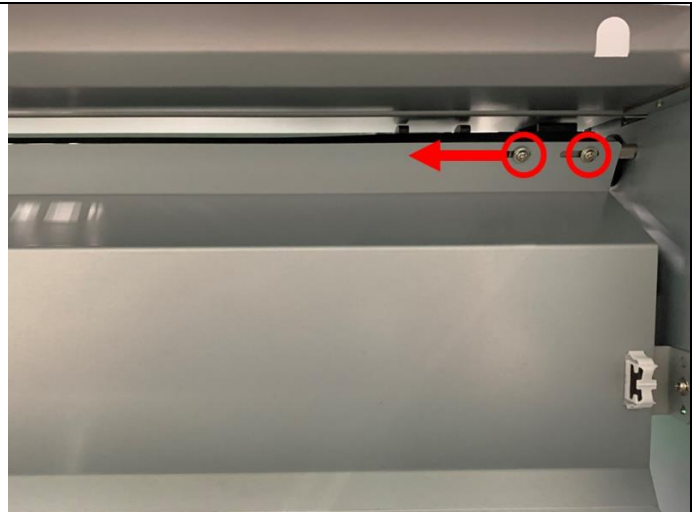
Step 1 / 22

Remove the back cover.



Step 2 / 22

Detail1: Remove the cover by loosening the screw on one side and sliding the bar.



Step 3 / 22

Pull out the two ink cartridges.



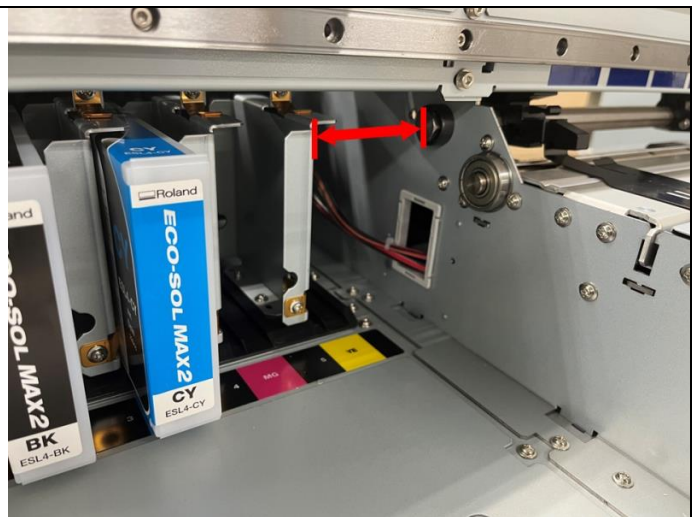
Step 4 / 22

Remove the metal plate next to the ink cartridge to make room to pull out the shaft.



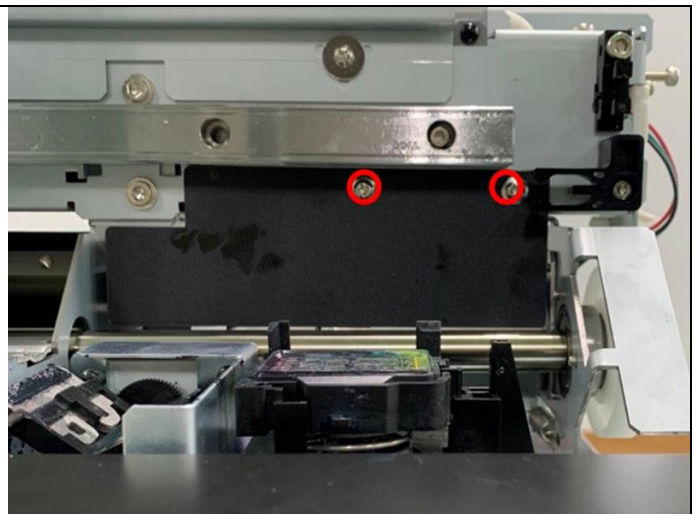
Step 5 / 22

Detail1: Room to pull out the shaft.



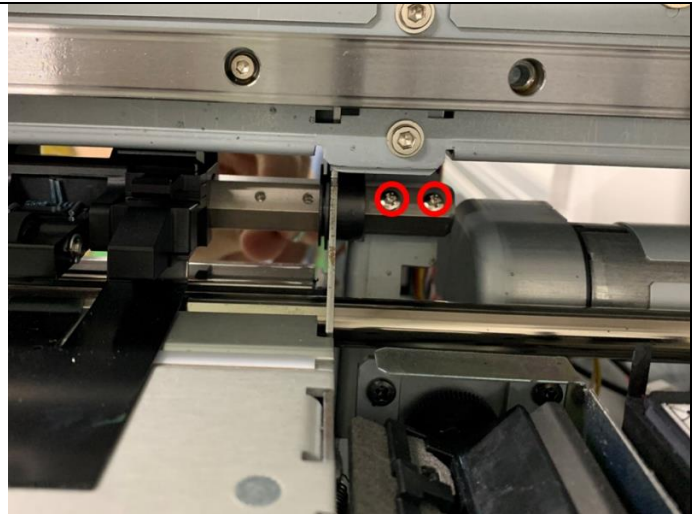
Step 6 / 22

Remove the cover behind the print head.



Step 7 / 22

Remove the screws on the shaft securing the pinch roller from the front side. Lower the pinch lever when removing.



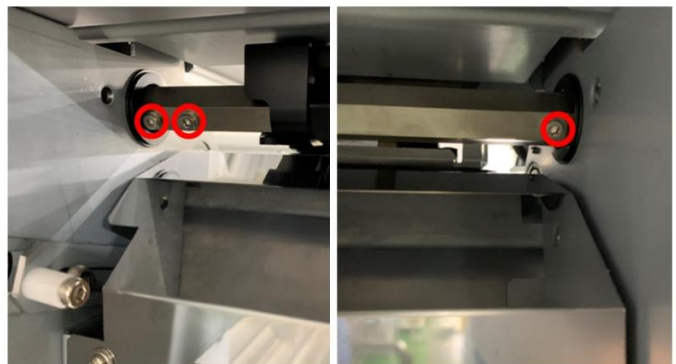
Step 8 / 22

Remove the fixture next to the pinch roller.



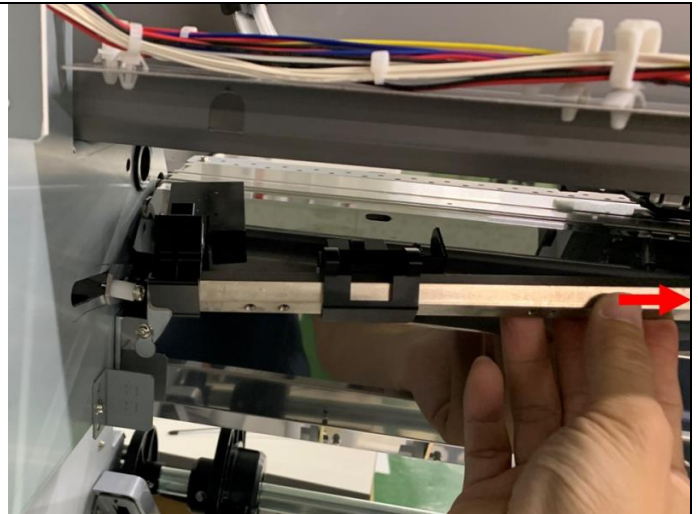
Step 9 / 22

Remove the hexagonal screws on the shaft from the rear side.



Step 10 / 22

Pull out the pinch roller shaft toward the direction of the ink cartridges.



Step 11 / 22

Pull out the media clamp on the right side.



Step 12 / 22

Pull out the pinch roller assy on the print head side.



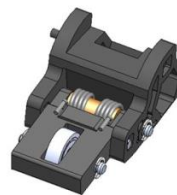
Step 13 / 22

Pull out the pinch roller assy on the ink cartridge side.

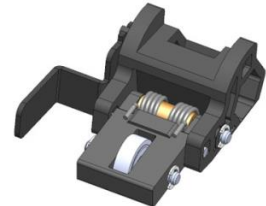


Step 14 / 22

Install the pinch rollers □ media clamps.
Be careful to install the left and right side pinch rollers correctly and at the correct angle.



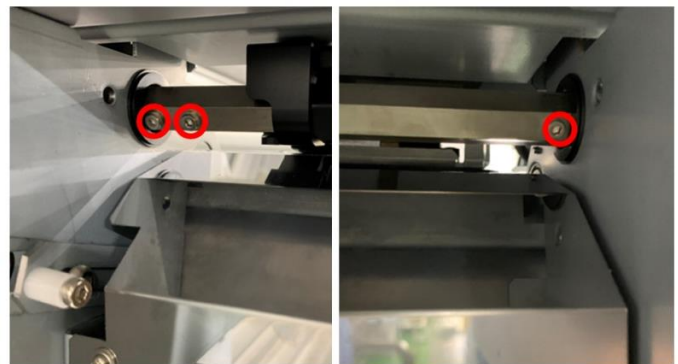
Ink cartridge side



Print head side

Step 15 / 22

Install the shaft and secure it from the rear side.



Step 16 / 22

Install the fixture next to the pinch roller.



Step 17 / 22

Fix the shaft securing the pinch roller and the pinch roll lever from the front side .



Step 18 / 22

Attach the metal plate next to the ink cartridge.



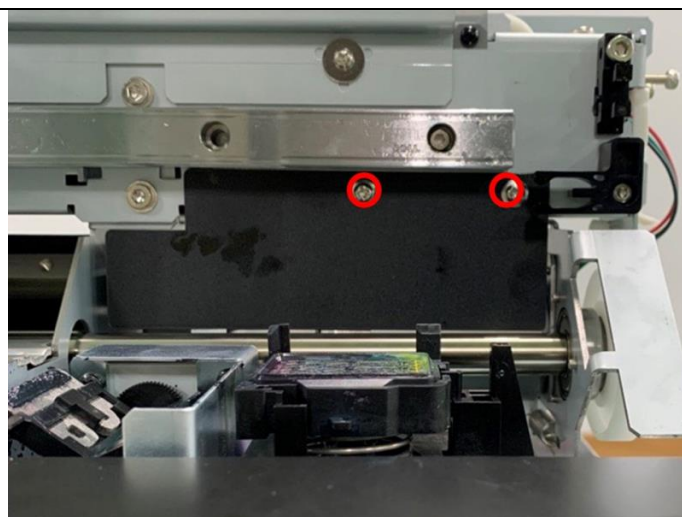
Step 19 / 22

Put back the ink cartridges.



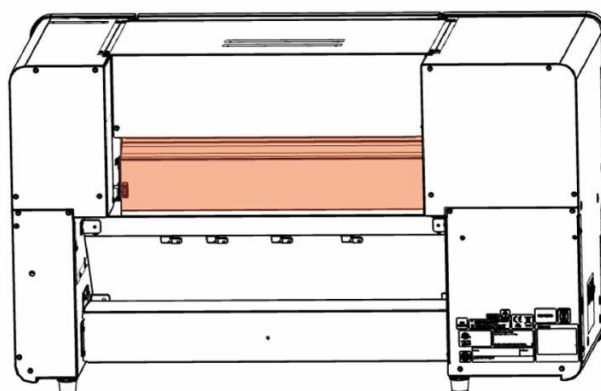
Step 20 / 22

Install the cover behind the print head.



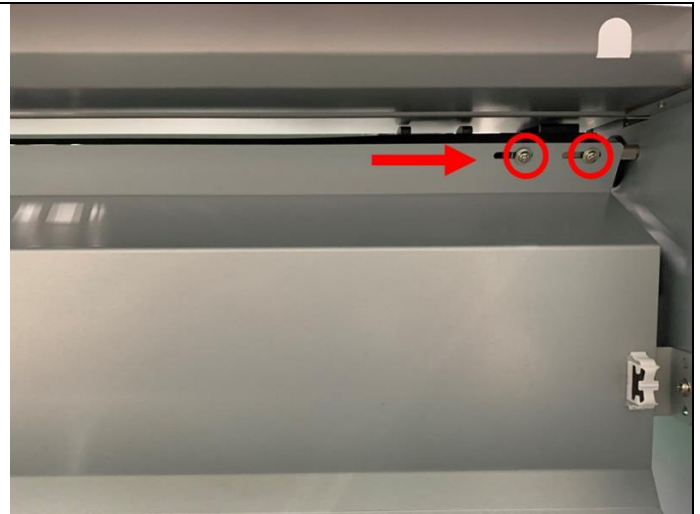
Step 21 / 22

Detail1: Attach the cover on the back side.



Step 22 / 22

Slide the bar to attach the cover and secure the screws.



BN2,BY-20 Print head alignment

BN2,BY-20 Print head alignment

Information

Step 1 / 5

BN2Utility settings



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 1.5mm 1.5mm hexagonal wrench	
白メディア White media	

Step 3 / 5

Jigs/special tools

特殊治具/Special Tools

ST-056 TORQUE DRIVER N6	
1000006902 TOOL,BIT HEXAGONAL ST-118	

Step 4 / 5

Typical work time

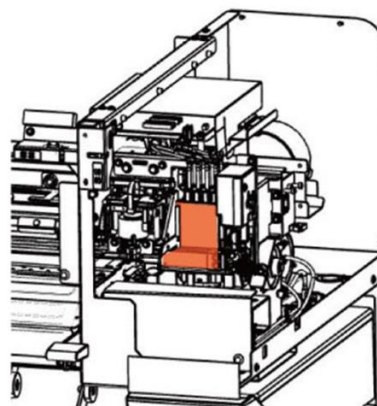
作業時間/Typical work time

作業内容/Contents of work	時間/Time
ヘッド位置調整 Head alignment	20 min.
メディアギャップ調整 Media gap adjustment	5 min.
送り補正調整 Feed correction adjustment	5 min.

Step 5 / 5

Outline diagram

概要図/Outline Diagram



BN2,BY-20 Print head alignment

BN2,BY-20 Print head alignment Procedure

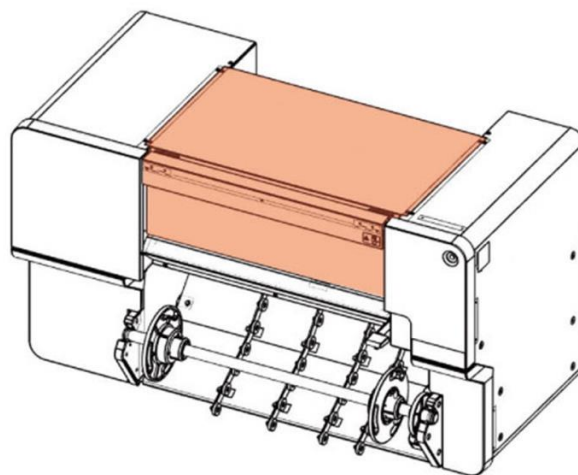
Step 1 / 35

Remove the cover and place the print head in the center of the printer.



Step 2 / 35

Detail1: Covers that need to be removed



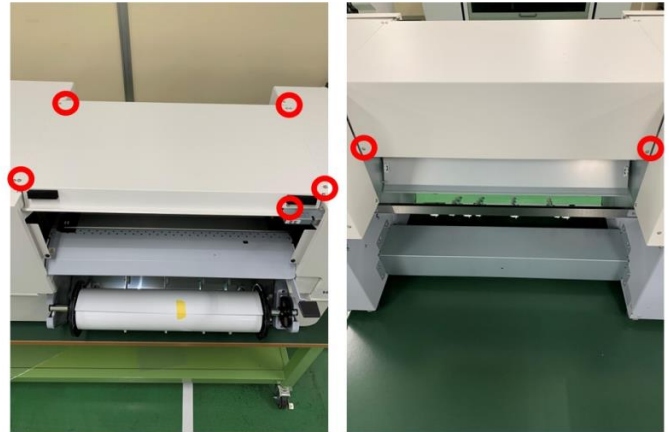
Step 3 / 35

Detail2: Remove the front cover by loosening the screw on the left and sliding the bar to the right.



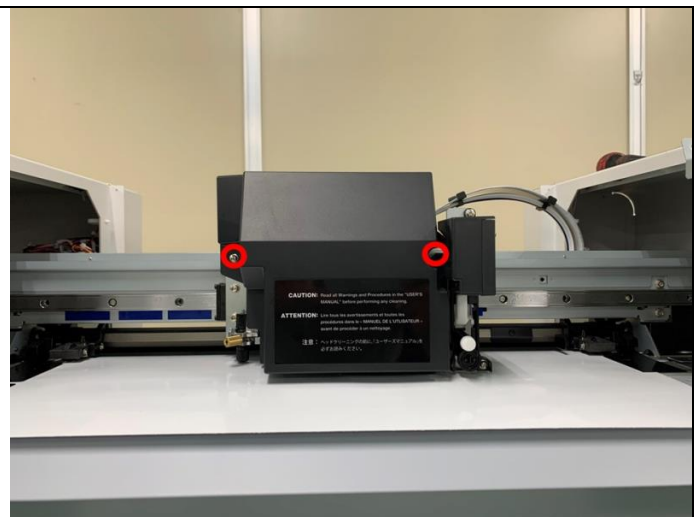
Step 4 / 35

Detail3: Remove the 7 screws on the TOP cover.



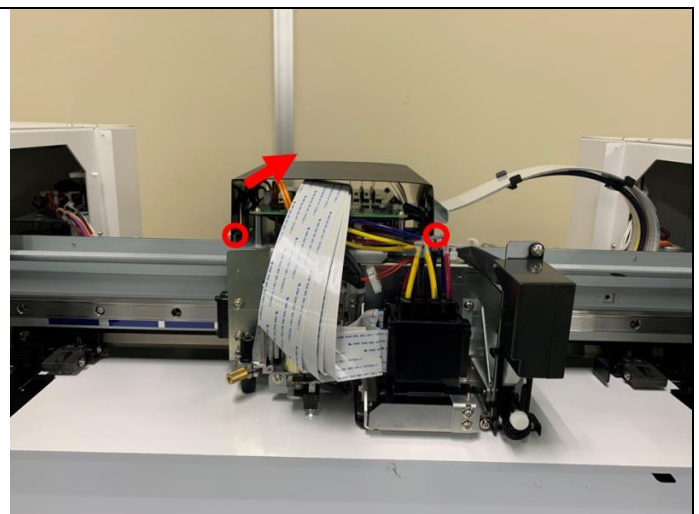
Step 5 / 35

Detail4: Remove the screws and remove the cover.



Step 6 / 35

Detail5: Remove the two rivets on the left and right and slide the board cover off.



Step 7 / 35

Detail1: Start Peck2.

Peck2

Ver. 3.31



Imagine. **Roland**

Step 8 / 35

Detail2: Click the [Login] button.

Peck2 Ver. 3.3.1

suzukish@rolanddg.co.jp **Login** Server Update 2024.6.8

Printer Info	User Information	Certification Points
Model: BN2-20_KFQ0102	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: UnSetup	Expired after: 29 days	Installer - - - - -
Firm Ver: 1.80	Region Code:	Color - - - - -
Service Menu: Open		Dental - - - - -
		3D - - - - -

Machine Operation	Information	Site Links	Work Report
Connect Printer	Global Dashboard	RolandDG Connect Page	Completed #: 0 Incompleted #: 3 Input
Check Report	Start RDGSA App	Imagi-net Product Page	Incompleted work report list
Update Firmware	Help	Check KB Article	LG-300_KFQ0100_20240606_192346.pec BY-20_KFZ0001_20240607_140406.pec BN2-20_KFQ0102_20240607_141755.pec
Put Parameter	Set ModelName		

Step 9 / 35

Detail3: Log in with your Imagi-net ID.

Sign in to your account

Microsoft

Select an account

Jun Koh
kohajun@windnet

Log in

利用規約 プライバシー Cookie

Step 10 / 35

Detail4: Click the [Connect Printer]

Peck2 Ver. 3.3.1

suzukish@rolanddg.co.jp **Login** Server Update 2024.6.8

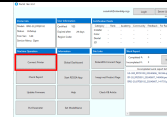
Printer Info	User Information	Certification Points
Model: BN2-20_KFQ0102	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: UnSetup	Expired after: 29 days	Installer - - - - -
Firm Ver: 1.80	Region Code:	Color - - - - -
Service Menu: Open		Dental - - - - -
		3D - - - - -

Machine Operation	Information	Site Links	Work Report
Connect Printer	Global Dashboard	RolandDG Connect Page	Completed #: 0 Incompleted #: 3 Input
Check Report	Start RDGSA App	Imagi-net Product Page	Incompleted work report list
Update Firmware	Help	Check KB Article	LG-300_KFQ0100_20240606_192346.pec BY-20_KFZ0001_20240607_140406.pec BN2-20_KFQ0102_20240607_141755.pec
Put Parameter	Set ModelName		

Wednesday, July 2, 2025 9:43 PM

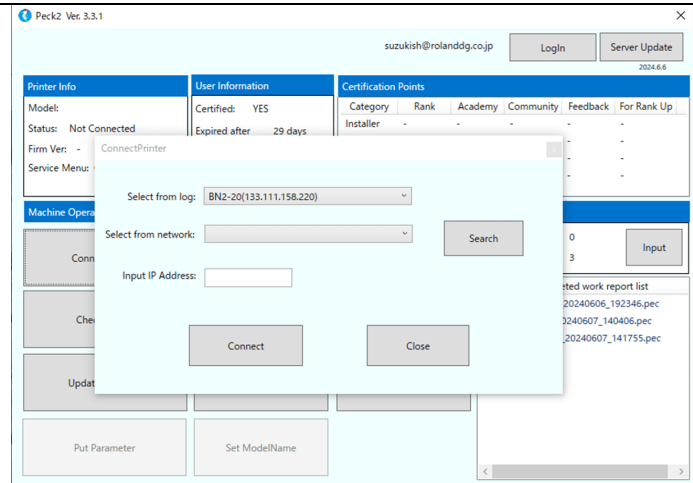
Language: en

button.



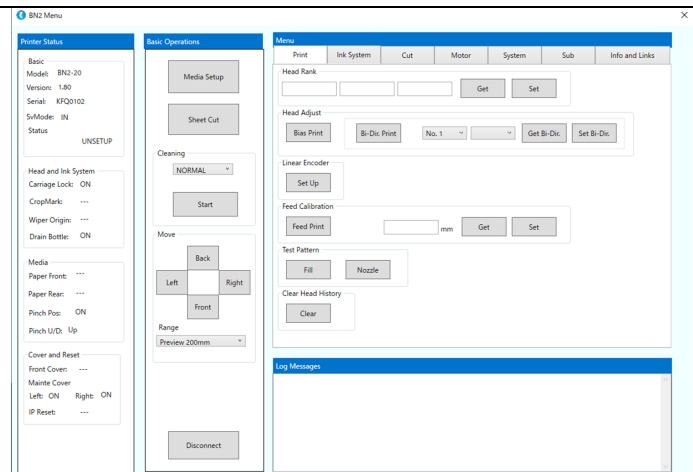
Step 11 / 35

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



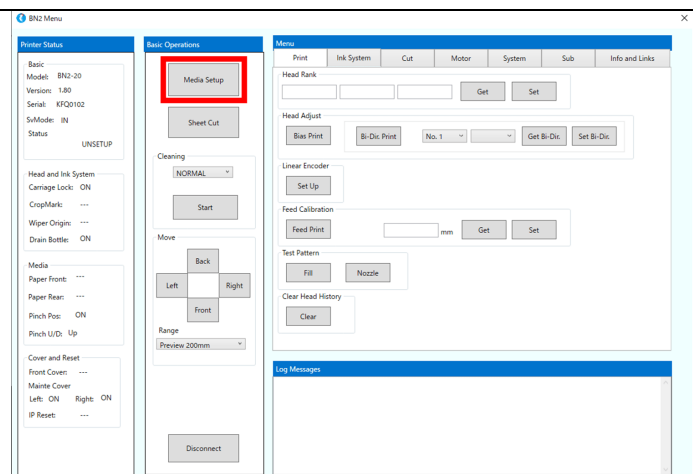
Step 12 / 35

Detail6: Check that the printer information is displayed in [Printer Info] on the Peck2 main screen and that the printer is connected.



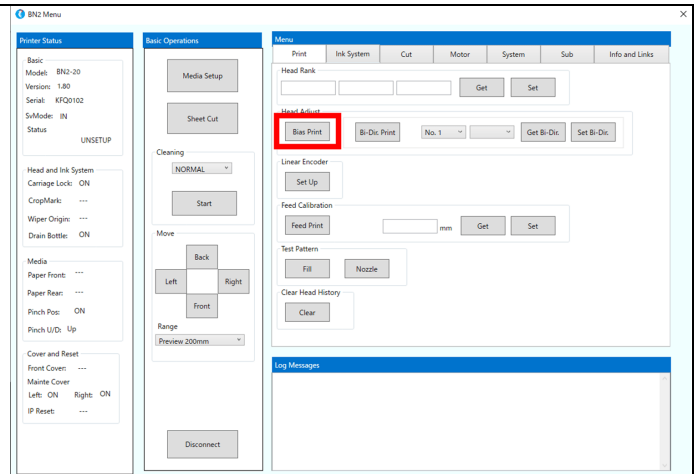
Step 13 / 35

Load the media and set it up.



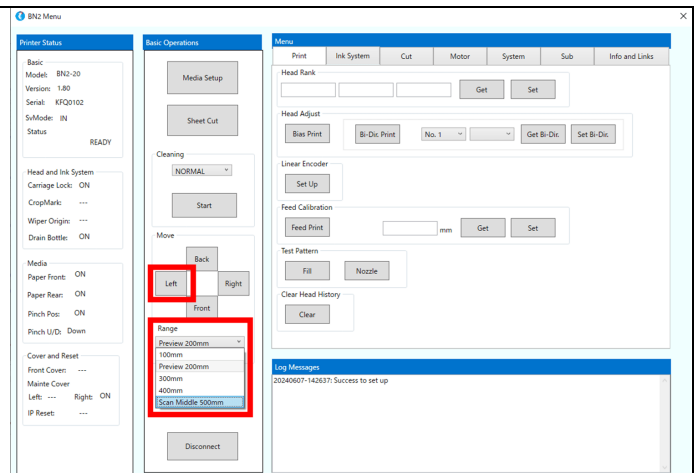
Step 14 / 35

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



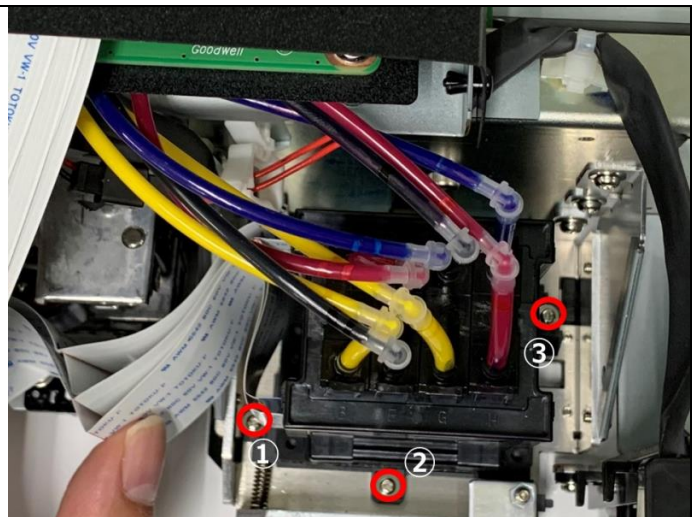
Step 15 / 35

To move the carriage to the center, select [Scan Middle 500mm] from the pull-down menu in [BasicOperations] > [Move] > [Range] and press [Left] key.



Step 16 / 35

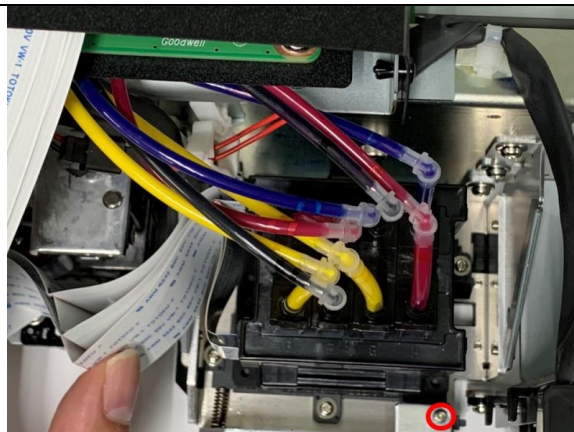
Loosen the screws (three places) that secure the print head in the order shown in the figure. Loosen the screw about 1/2 turn. If the screw is loosened too much, the adjustment cannot be performed correctly.



Step 17 / 35



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



Step 18 / 35

Detail1: If the color on the right is shifted downward, turn the screw clockwise.

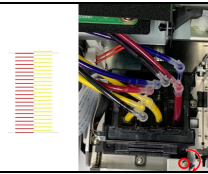


Step 19 / 35

Detail2: When the right side lines are shifting upwards, turn the adjustment screw counterclockwise two or three times so that the right side lines become lower than the left ones temporarily. Then print the test pattern again, and perform the adjustment. When adjusting the print head position, turn the screw clockwise. Turn the adjustment screw counterclockwise



only when fitting back the misalignment.



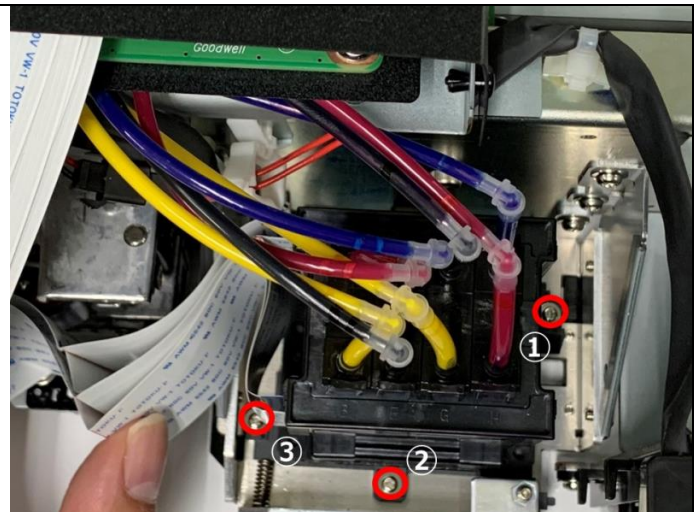
Step 20 / 35

Detail3: A test pattern is printed. Use transparent media when adjusting colors with poor visibility such as WH.



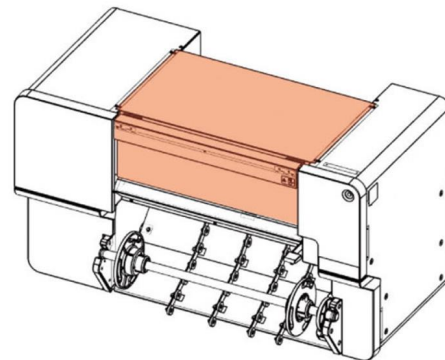
Step 21 / 35

Use a torque screwdriver to tighten the head base fixing screws in the order shown. (Specified torque value: $0.2\text{N}\cdot\text{m}$ / $20\text{cN}\cdot\text{m}$) Do not overtighten the screws.



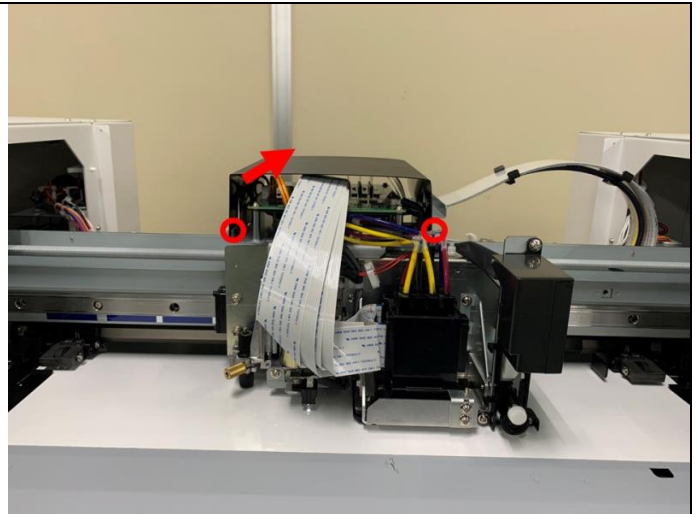
Step 22 / 35

Attach the covers.



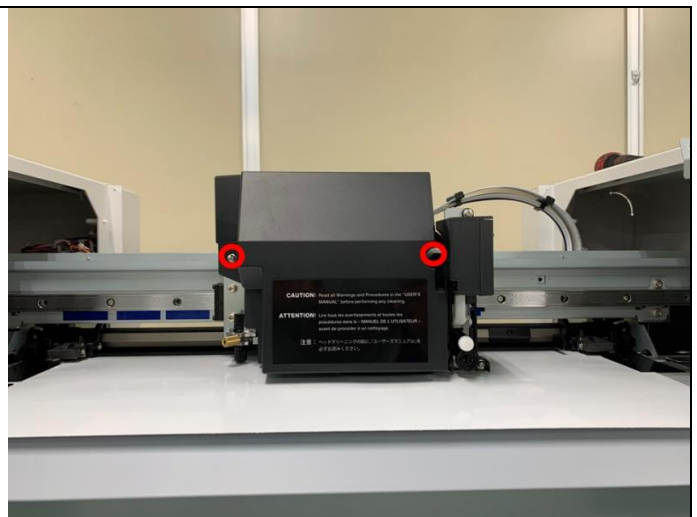
Step 23 / 35

Detail1: Attach the two rivets and attach the board cover.



Step 24 / 35

Detail2: Attach the print head cover with two screws.



Step 25 / 35

Detail3: Attach the top cover with 7 screws.



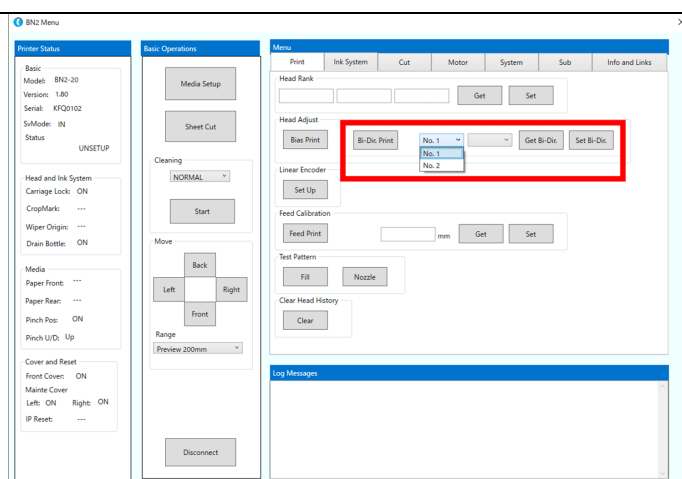
Step 26 / 35

Detail4: Attach the front cover by loosening the left screw and sliding the bar to the left.



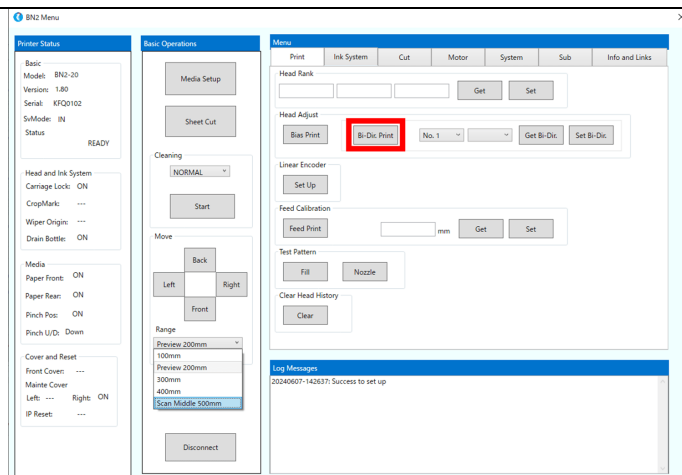
Step 27 / 35

Set media gap correction in Peck2. For the adjustment value, enter only the No. 1 value of the test print.



Step 28 / 35

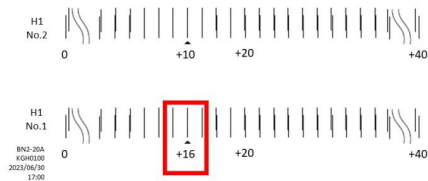
Detail1: Perform a test print with [Print] > [Head Adjust] > [Bi-Dir. Print].



Step 29 / 35

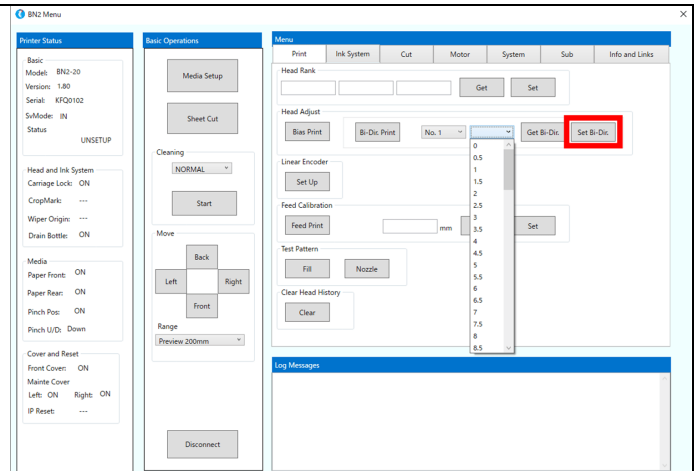


Detail2: Check the numbers of the lines that overlap each other in the No. 1 adjustment value. If you are not sure which of the two numbers is appropriate, can set intermediate values.



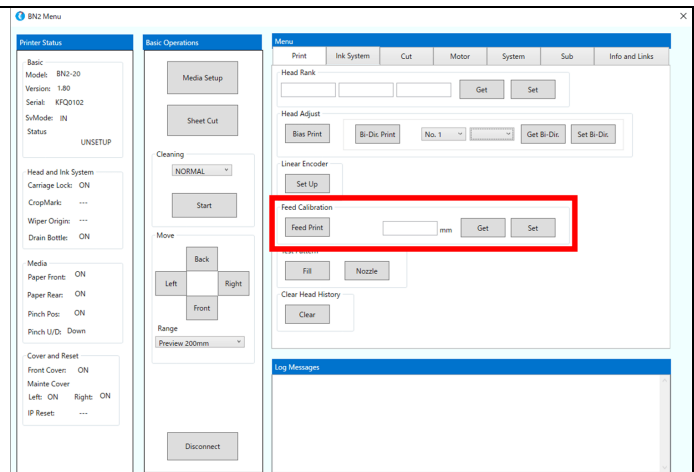
Step 30 / 35

Detail3: Select the adjustment value and press [Print] > [Head Adjust] > [Bi-Dir. Set].



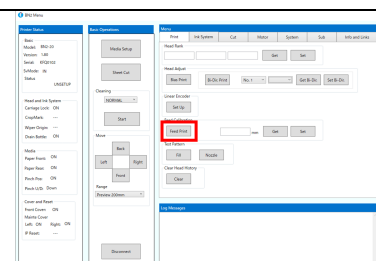
Step 31 / 35

Set the feed correction value in Peck2.



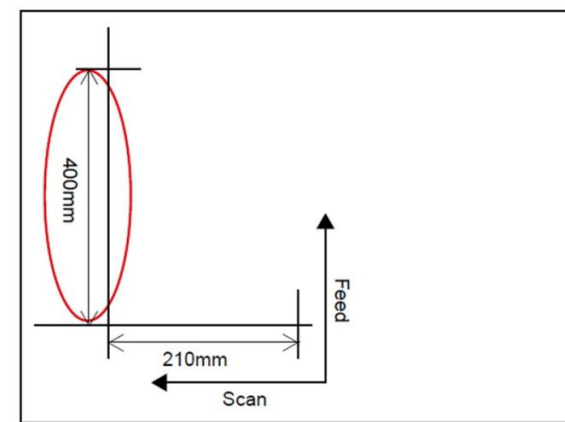
Step 32 / 35

Detail1: Perform a test print with [Print] > [Feed Calibration] > [Feed Print].



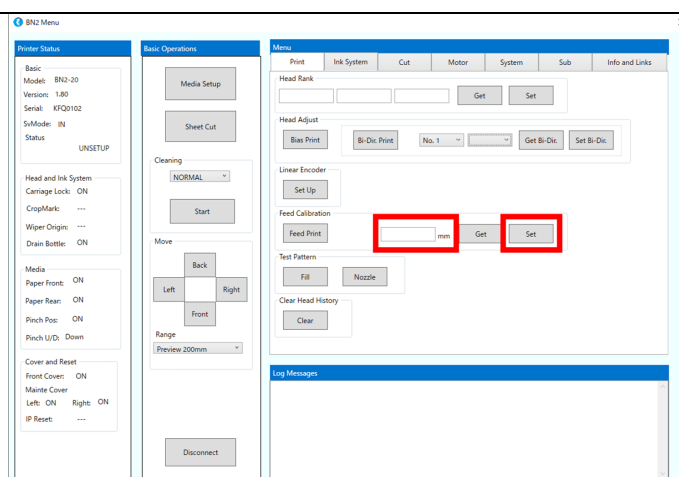
Step 33 / 35

Detail2: Measure the Feed length of the printed test print.



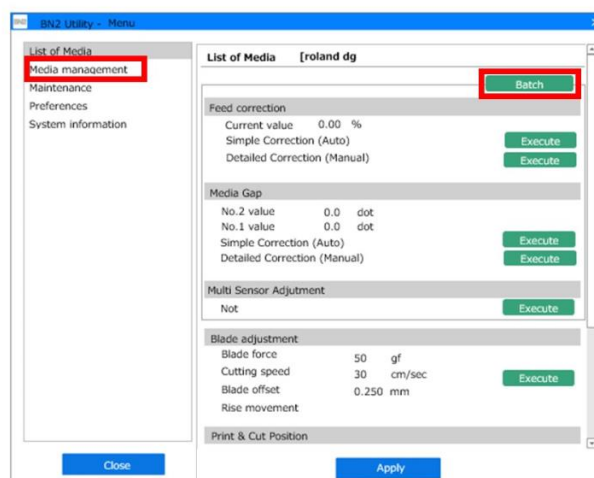
Step 34 / 35

Detail3: Enter the measured value and press [Print] > [Feed Calibration] > [Set].



Step 35 / 35

Readjust the user setting media with the customer's BN2 Utility. After replacing the print head, be sure to perform BN2 Utility setting.



BN2,BY-20 Firmwear Installation

BN2,BY-20 Firmwear Installation Information

Step 1 / 7

Necssary tools

一般ツール/General Tool

無し None	
------------	--

特殊治具/Special Tools

無し None	
------------	--

Step 2 / 7

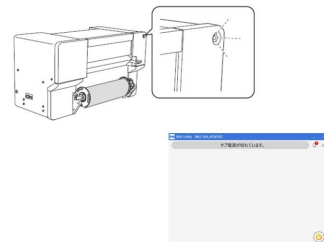
Typical work time

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.

Step 3 / 7

Make sure the machine is sub power is
turned off.



Step 4 / 7

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:	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: Not Connected	Expired after 16 days	Installer - - - - -
Firm Ver: -	Region Code:	Color - - - - -
Service Menu: Close		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.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
Put Parameter			

Step 5 / 7

Detail1: Start Peck2.



Step 6 / 7

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 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 7 / 7

Detail3: Log in with your Imagi-net ID.

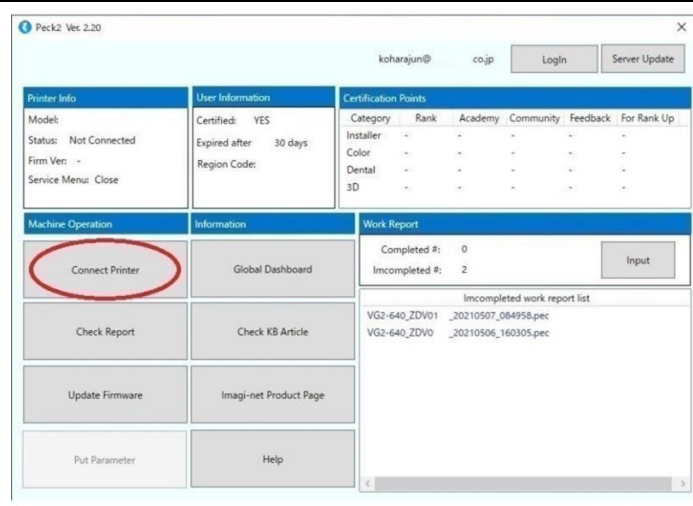


BN2,BY-20 Firmwear Installation

BN2,BY-20 Firmwear Installation Procedure

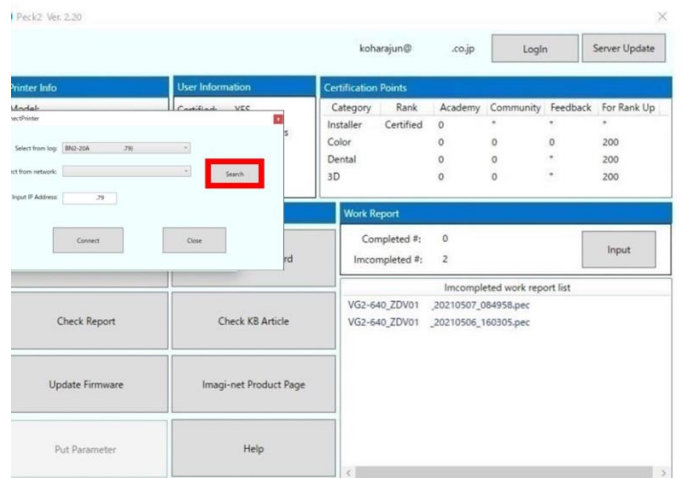
Step 1 / 4

Click the [Connect Printer] button.



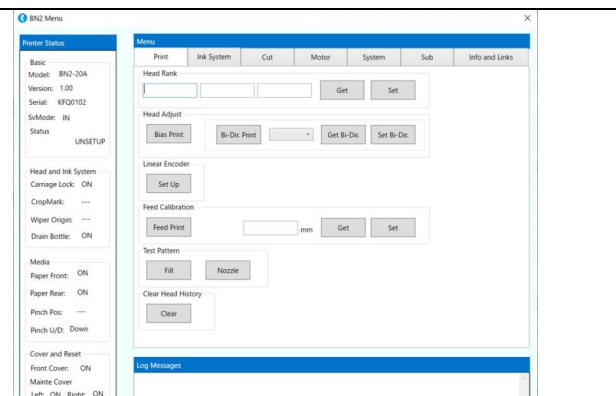
Step 2 / 4

Use the [Search] button to search for the IP address of the device you want to connect to and connect to it. If you can not search the device, check if the IP address configuration on your PC is set to automatic.



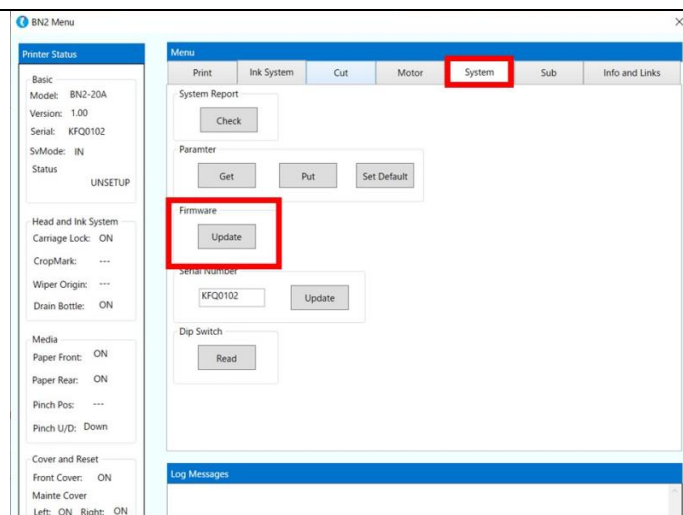
Step 3 / 4

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



Step 4 / 4

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



BN2,BY-20 Firmware upgrade

BN2,BY-20 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.

BN2,BY-20 Firmware upgrade

BN2,BY-20 Firmware upgrade Procedure

Step 1 / 8

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><tr><th>Category</th><th>Rank</th><th>Academy</th><th>Community</th><th>Feedback</th><th>For Rank</th></tr><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></table>	Category	Rank	Academy	Community	Feedback	For Rank	Installer	-	-	-	-	-	Color	-	-	-	-	-	Dental	-	-	-	-	-	3D	-	-	-	-	-
Category	Rank	Academy	Community	Feedback	For Rank																											
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.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																													
Put Parameter																																

Step 2 / 8

Detail1: Start Peck2.

Step 3 / 8

Detail2: Click the [Login] button.

Peck2 Ver. 2.20

koharjun@ 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><tr><th>Category</th><th>Rank</th><th>Academy</th><th>Community</th><th>Feedback</th><th>For Rank</th></tr><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></table>	Category	Rank	Academy	Community	Feedback	For Rank	Installer	-	-	-	-	-	Color	-	-	-	-	-	Dental	-	-	-	-	-	3D	-	-	-	-	-
Category	Rank	Academy	Community	Feedback	For Rank																											
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.pe VG2-640_ZDV01_20210506_160305.pe																														
Put Parameter	Help																															

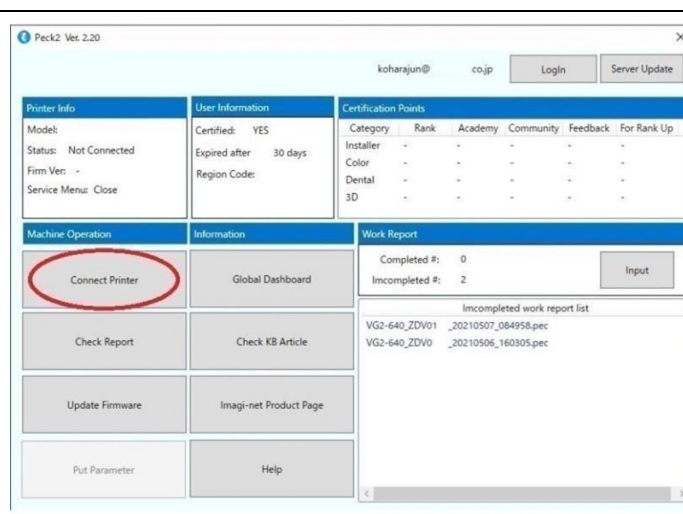
Step 4 / 8

Detail3: Login with your Imagi-net ID.



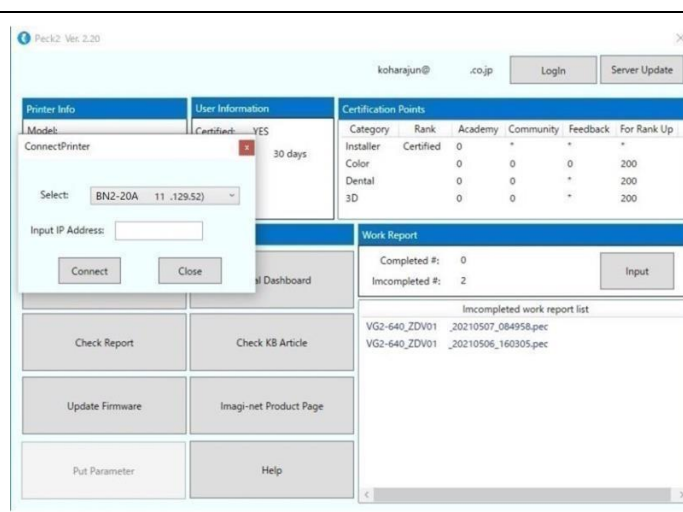
Step 5 / 8

Detail4: Click the [Connect Printer] button.



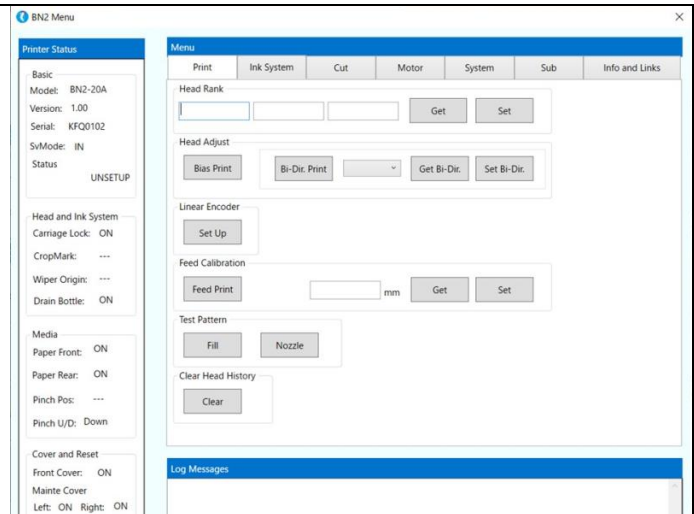
Step 6 / 8

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



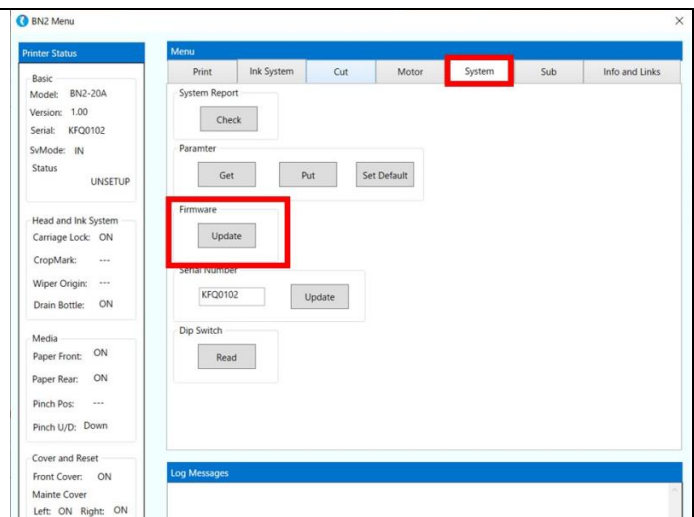
Step 7 / 8

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



Step 8 / 8

Select [System] > [Firmware] > [Update] to update the firmware.



BN2,BY-20 Belt tension adjustment

BN2,BY-20 Belt tension adjustment

Information

Step 1 / 17

Belt position adjustment
Flushing
position initialization
Linear encoder set
up



Step 2 / 17

Necessary Tools

一般ツール/General Tool

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



六角レンチ 3.0mm
3.0mm hexagonal wrench

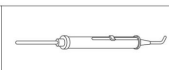


Step 3 / 17

Jigs/special tools

特殊治具/Special Tools

ST-001
TENSION GAUGE 2000GF/2000CN



Step 4 / 17

Typical work time

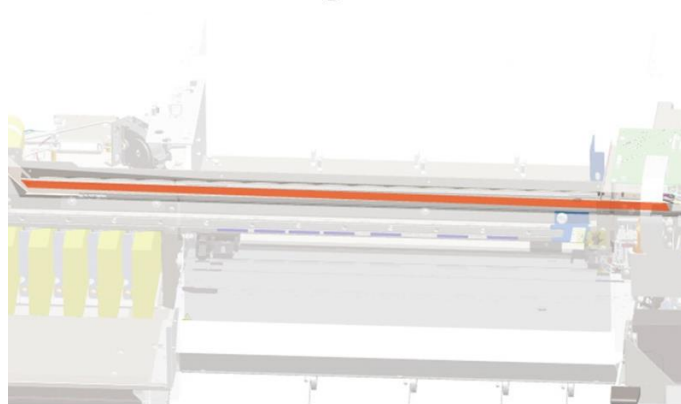
作業時間/Typical work time

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

Step 5 / 17

Outline diagram

概要図/Outline Diagram



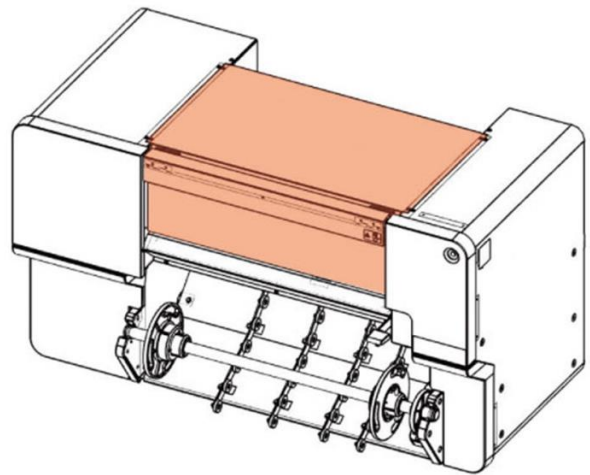
Step 6 / 17

Remove all covers as described in the next section.



Step 7 / 17

Remove the center and print head cover.



Step 8 / 17

Detail1: Remove the front cover by loosening the screw on one side and sliding the bar.



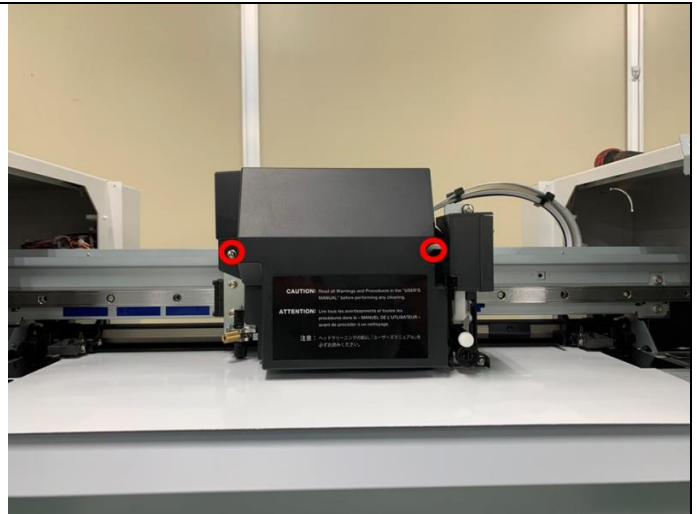
Step 9 / 17

Detail2: Remove the 7 screws on the top cover.



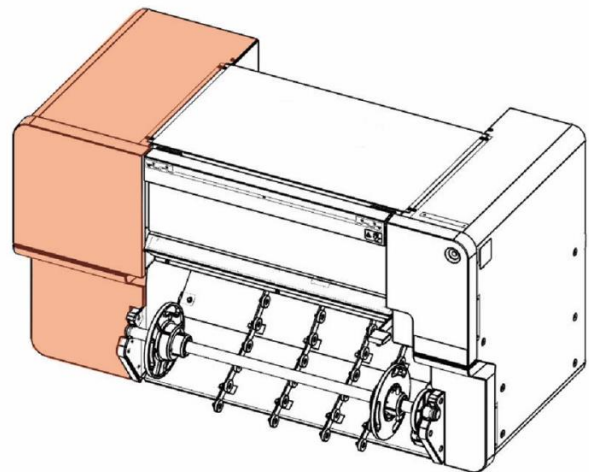
Step 10 / 17

Detail3: Remove the 2 screws and remove the print head cover.



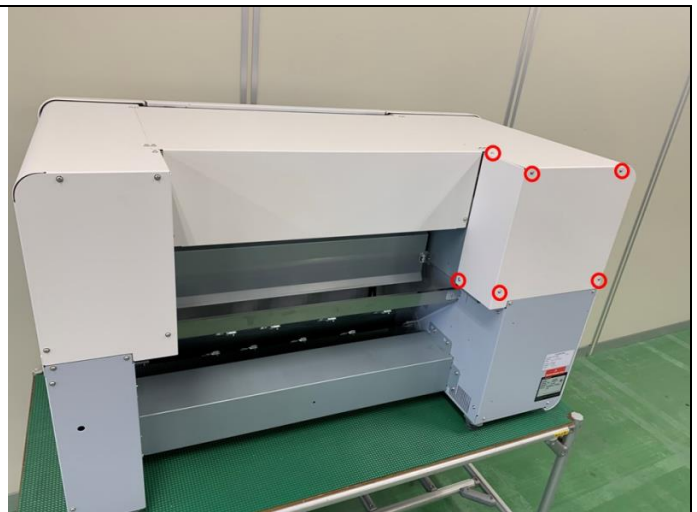
Step 11 / 17

Remove the left side cover.



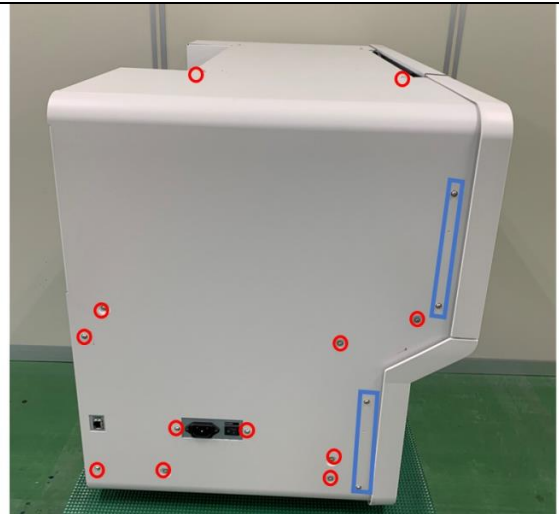
Step 12 / 17

Detail1: Remove the 6 screws and remove the back cover.



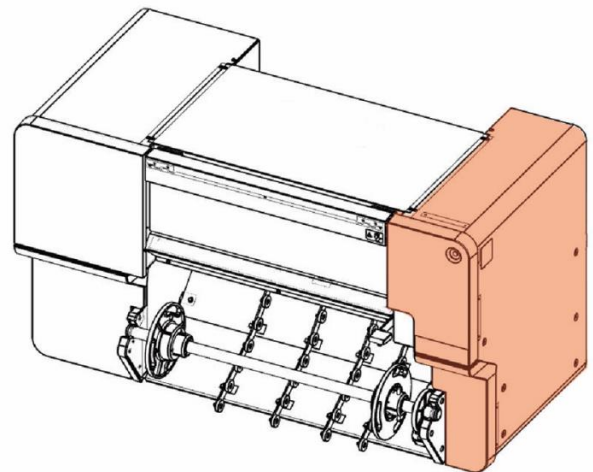
Step 13 / 17

Detail2: Remove the screws and remove the side cover. The screws indicated with blue rectangles are the screws that fix the open/close cover, so they are not removed.



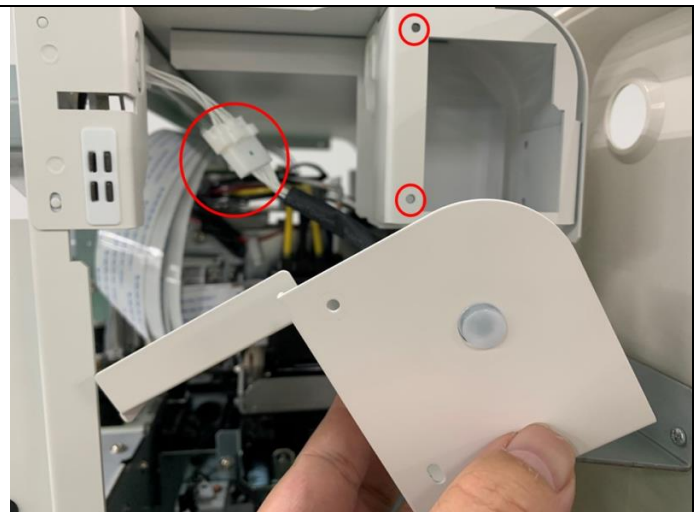
Step 14 / 17

Remove the right side cover.



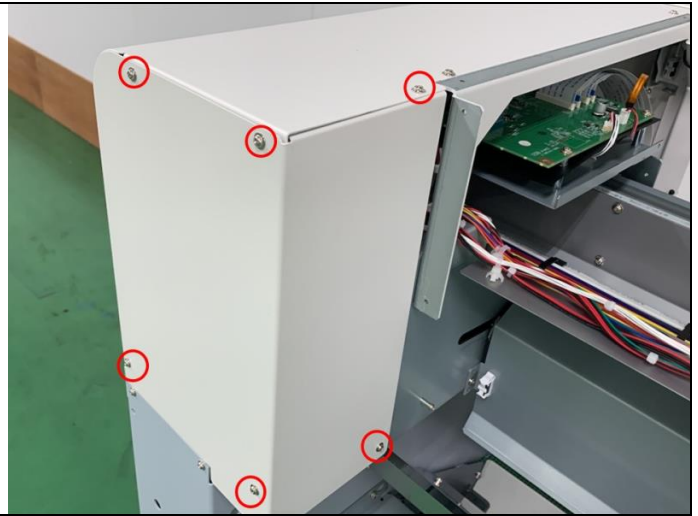
Step 15 / 17

Detail1: Remove the 6 screws and remove the back cover.



Step 16 / 17

Detail2: Remove the connector and screws and remove the power button.



Step 17 / 17

Detail3: Remove the screws and remove the side cover.



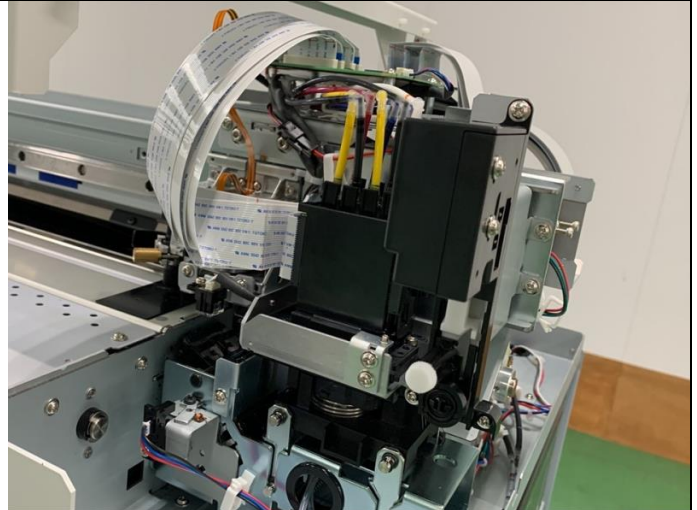
BN2,BY-20 Belt tension adjustment

BN2,BY-20 Belt tension adjustment

Procedure

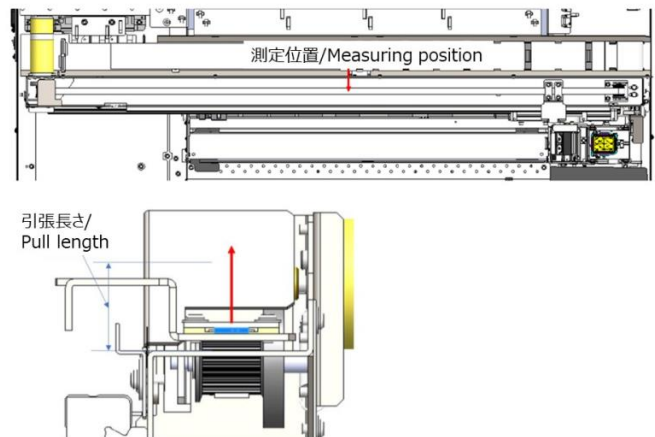
Step 1 / 10

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



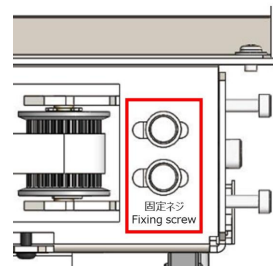
Step 2 / 10

In the center of the 4th grid from the right, pull the tooth surface of the belt toward the upper side of the machine and check if the measured value is within the proper range. *Proper tension value: 4.1 to 5.3 kgf *Pulling length: 50 mm (from top of rail)



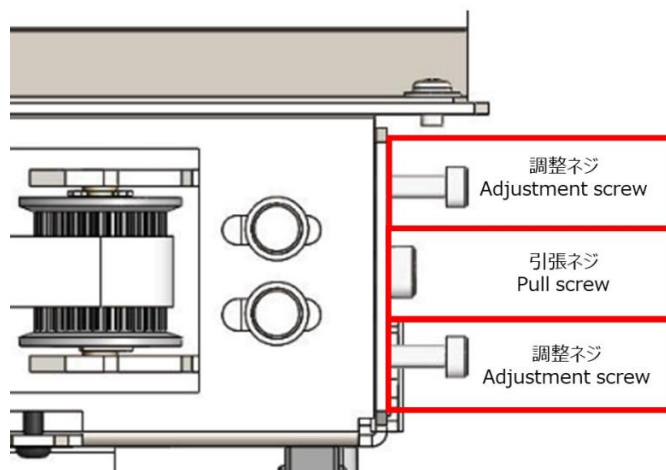
Step 3 / 10

Loosen the fixing screws 1/2 turn.



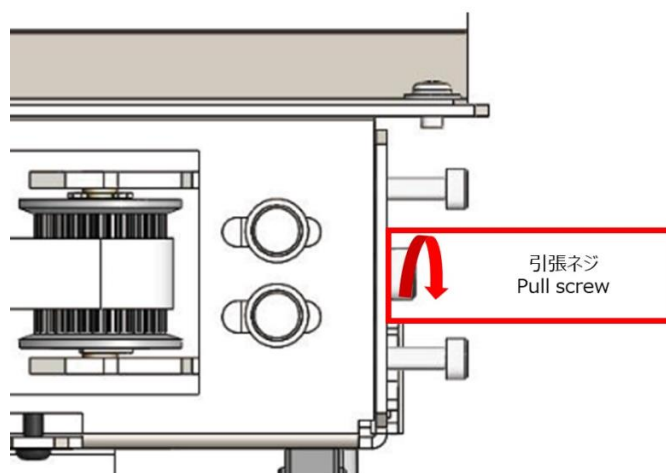
Step 4 / 10

Loosen the adjustment screws and adjust the tension to the proper value with the pull screw. * Proper tension value: 4.1 to 5.3 kgf



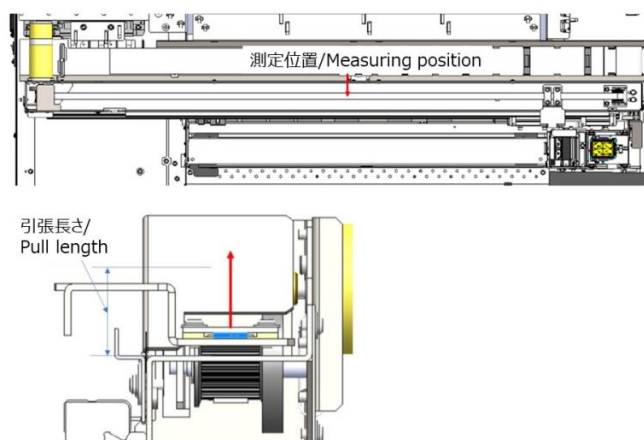
Step 5 / 10

Detail1: Turning the Pull screw in the direction of the arrow increases the measured value.



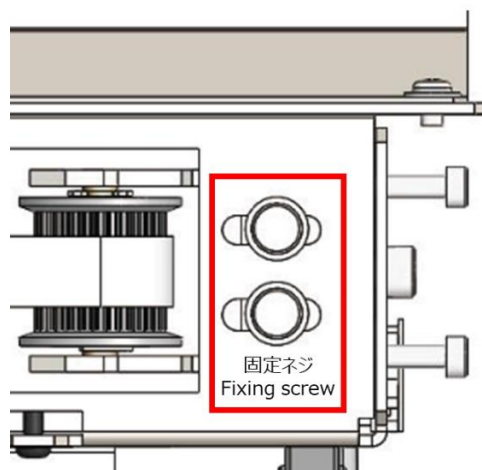
Step 6 / 10

In the center of the 4th grid from the right, pull the tooth surface of the belt toward the upper side of the machine and check if the measured value is within the proper range. *Proper tension value: 4.1 to 5.3 kgf *Pulling length: 50mm (from top of rail)



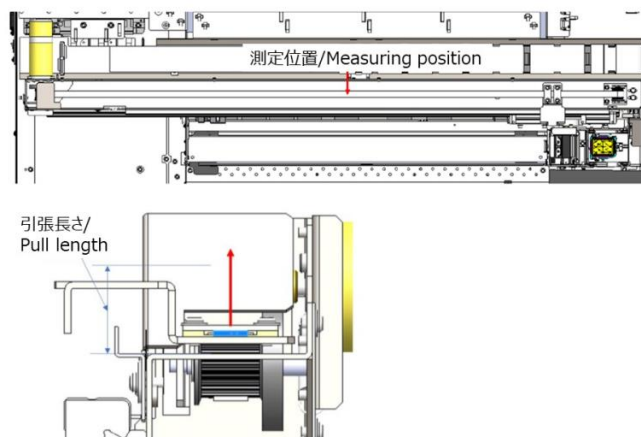
Step 7 / 10

Tighten the fixing screws when the proper tension value is obtained.



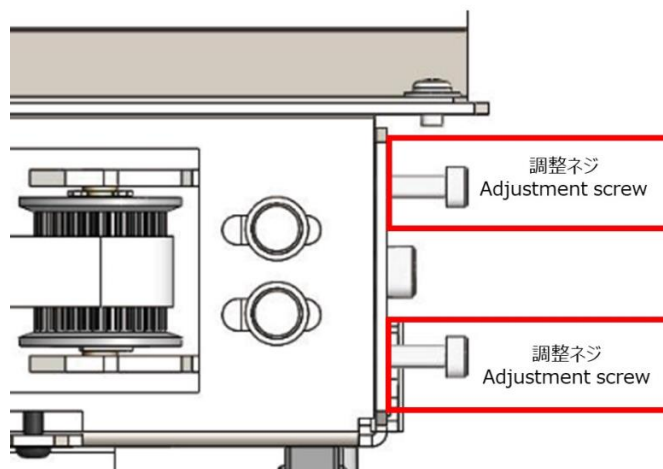
Step 8 / 10

Check if the measured value is within the proper range. *Proper tension value: 4.1 to 5.3 kgf *Pulling length: 50 mm (from top of rail)



Step 9 / 10

Tighten the adjustment screws. Adjust the adjustment screw so that it touches the idle pulley stay lightly, and be careful not to overtighten it.



Step 10 / 10

End of work



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

BN2,BY-20 Belt position adjustment

BN2,BY-20 Belt position adjustment

Information

Step 1 / 24

Flushing position initialization
Linear encoder set up



Step 2 / 24

Necessary tools

一般ツール/General Tool

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

Step 3 / 24

Jigs/special tools

特殊治具/Special Tools

無し/None	
---------	--

Step 4 / 24

Typical work time

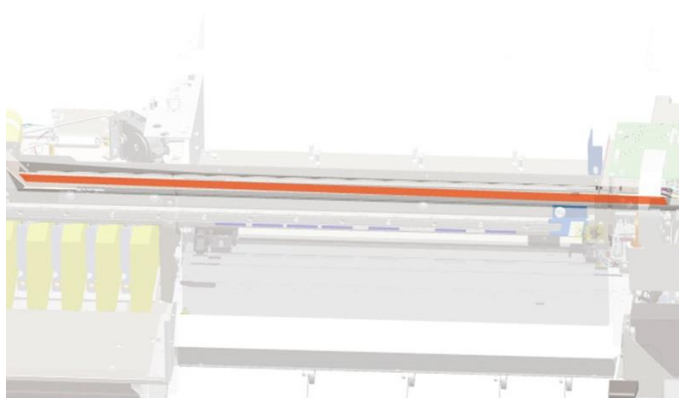
作業時間/Typical work time

作業内容/Contents of work	時間/Time
ベルト位置調整 Belt position adjustment	40 min.

Step 5 / 24

Outline diagram

概要図/Outline Diagram



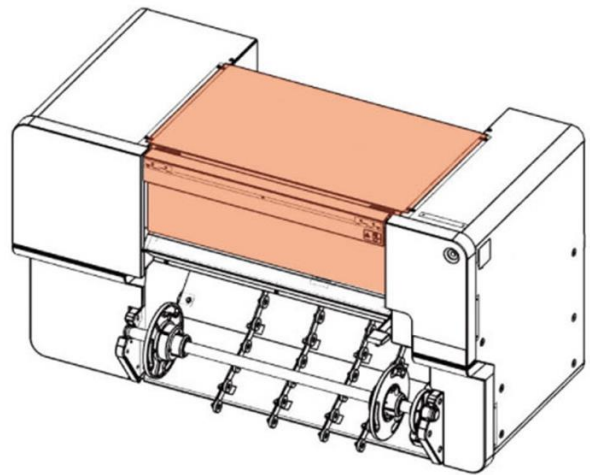
Step 6 / 24

Remove all covers as described in the next section.



Step 7 / 24

Remove the center and print head cover.



Step 8 / 24

Detail1: Remove the front cover by loosening the screws on one side and sliding the bar.



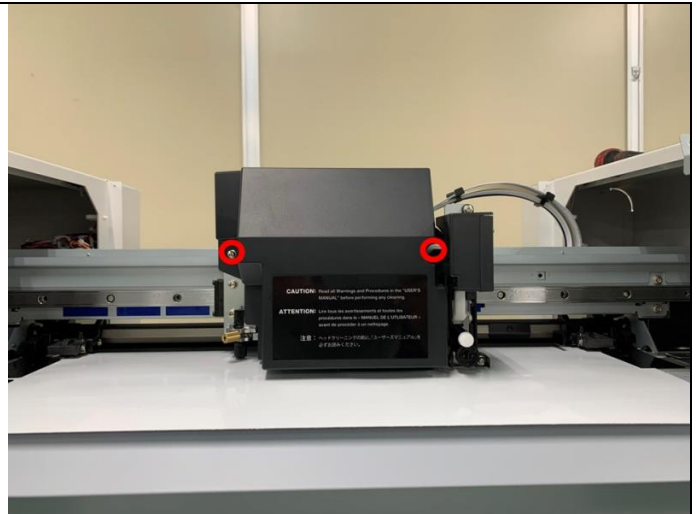
Step 9 / 24

Detail2: Remove the 7 screws on the top cover.



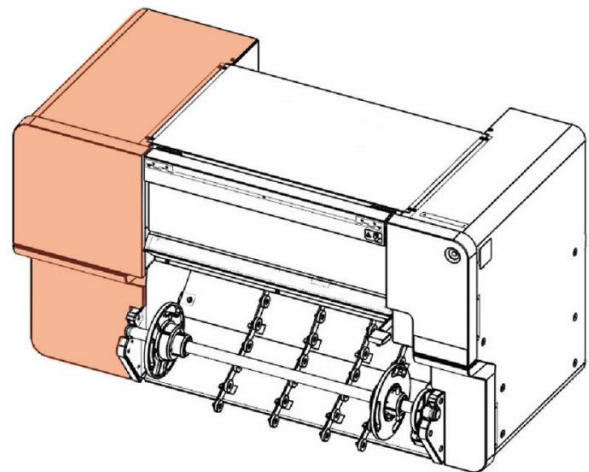
Step 10 / 24

Detail3: Remove the 2 screws and remove the print head cover.



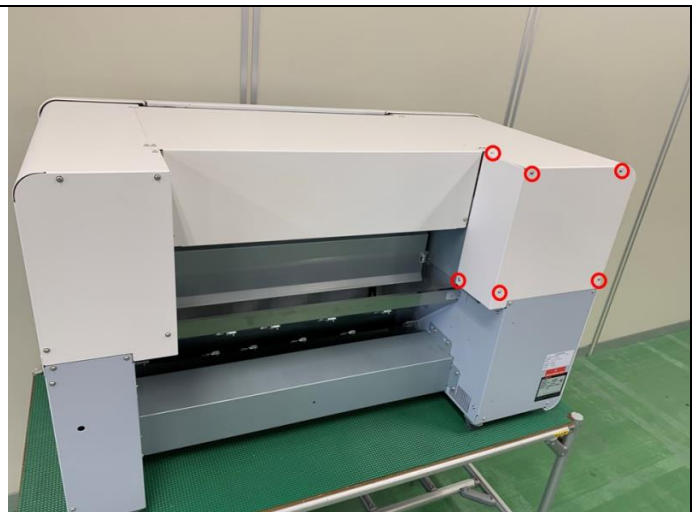
Step 11 / 24

Remove the left side cover.



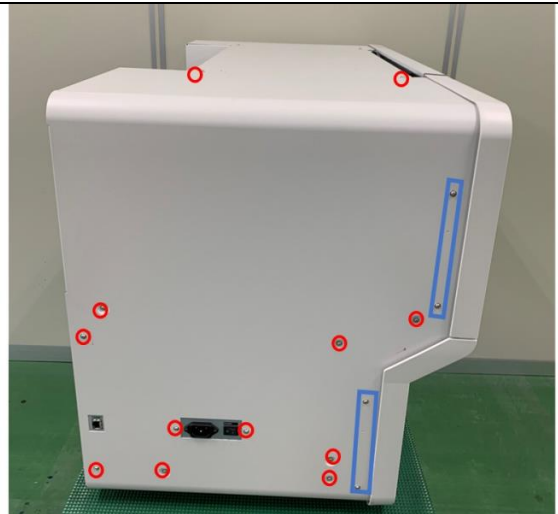
Step 12 / 24

Detail1: Remove the 6 screws and remove the back cover.



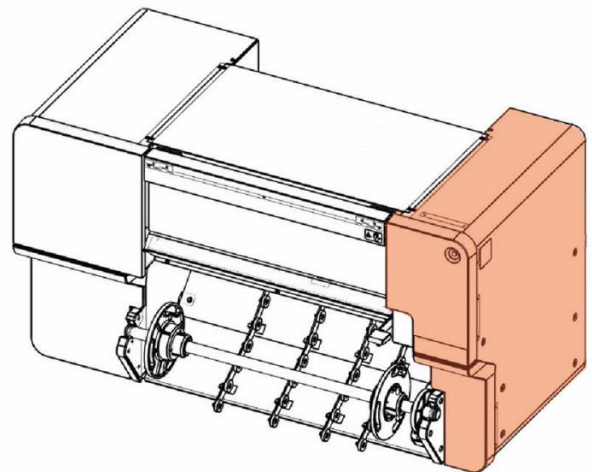
Step 13 / 24

Detail2: Remove the screws and remove the side cover. The screws indicated with blue rectangles are the screws that fix the open/close cover, so they are not removed.



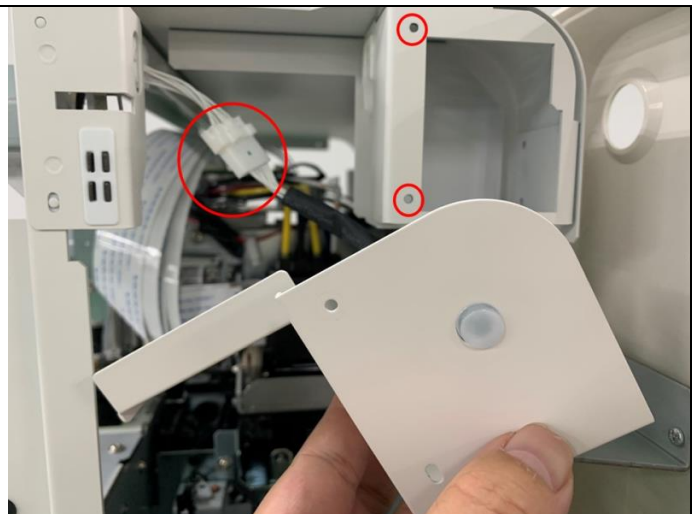
Step 14 / 24

Remove the right side cover.



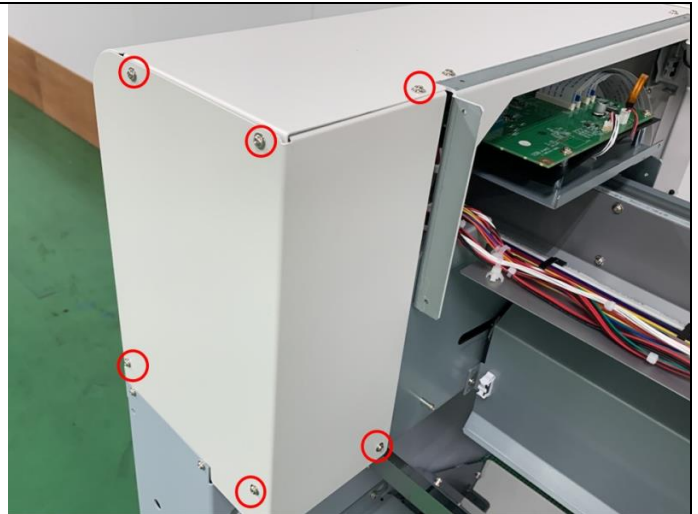
Step 15 / 24

Detail1: Remove the 6 screws and remove the back cover.



Step 16 / 24

Detail2: Disconnect the connector and remove the power button.



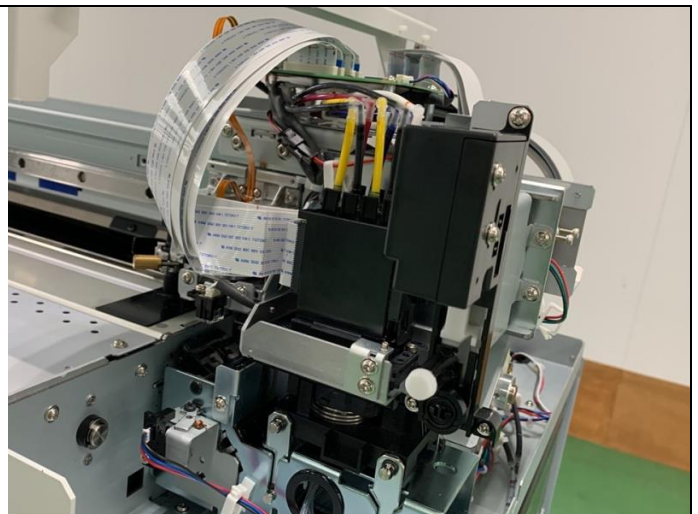
Step 17 / 24

Detail3: Remove the screws and remove the side cover.



Step 18 / 24

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



Step 19 / 24

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:	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: Not Connected	Expired after 16 days	Installer - - - - -
Firm Ver: -	Region Code:	Color - - - - -
Service Menu: Close		Dental - - - - -
		3D - - - - -

Machine Operation	Information	Site Links	Work Report
Connect Printer	Global Dashboard	RDG Connect Page	Completed #: 0 Incomplete #: 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.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
Put Parameter			

Step 20 / 24

Detail1: Start Peck2.



Step 21 / 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
Check Report	Check KB Article	Incompleted work report list
Update Firmware	Imagi-net Product Page	VG2-640_ZDV01_20210507_084958.pe VG2-640_ZDV01_20210506_160305.pe
Put Parameter	Help	

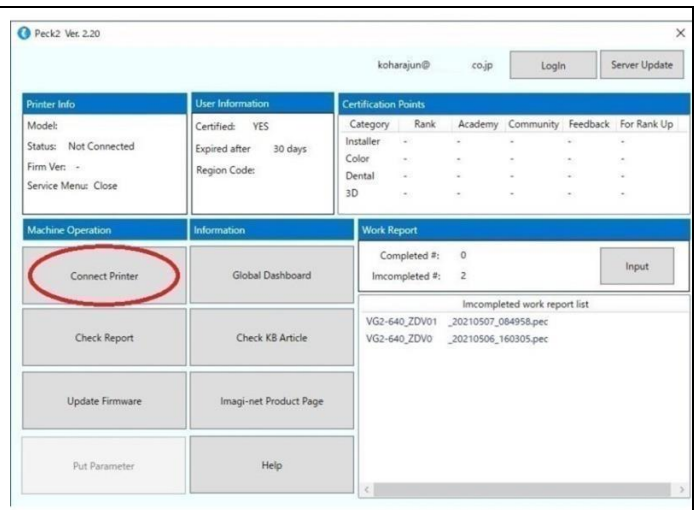
Step 22 / 24

Detail3: Log in with your Imagi-net ID.



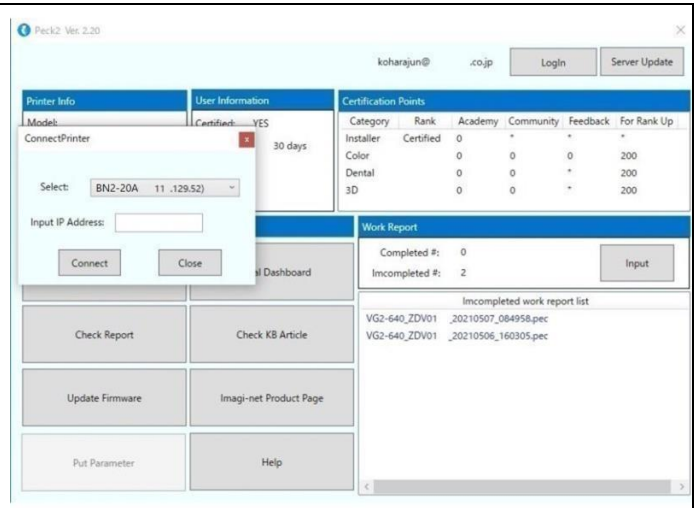
Step 23 / 24

Detail4: Click the [Connect Printer] button.



Step 24 / 24

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



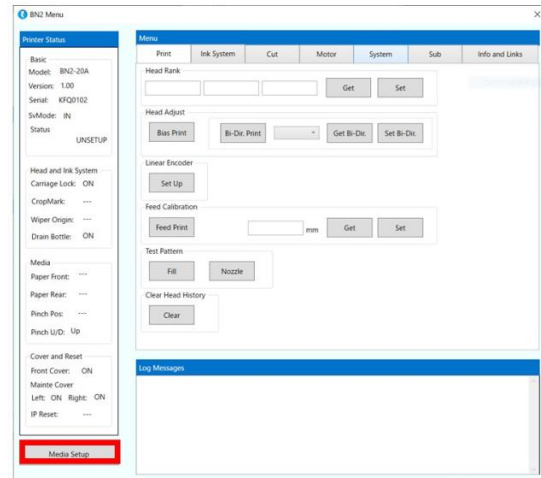
BN2,BY-20 Belt position adjustment

BN2,BY-20 Belt position adjustment

Procedure

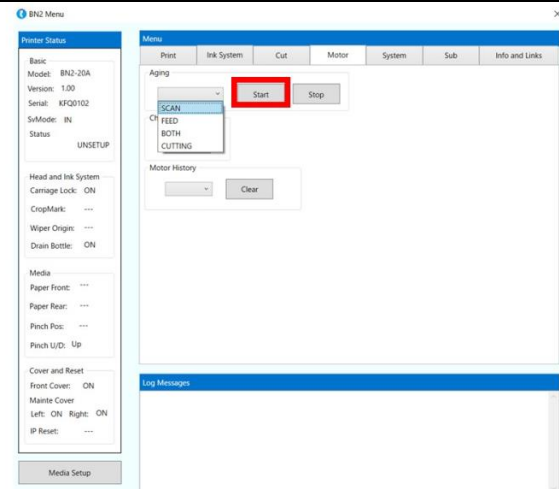
Step 1 / 12

Lower the pinch roller lever and press [Media Setup].



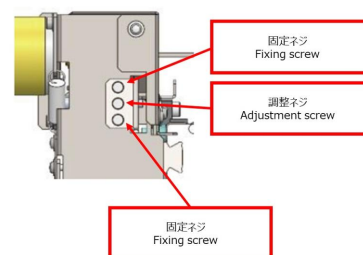
Step 2 / 12

Press [Motor] > [Aging] > [Scan] > [Start] to start Aging.

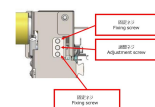


Step 3 / 12

Loosen the fixing screw and adjust the position of the belt on the motor side. Adjust the position so that the belt does

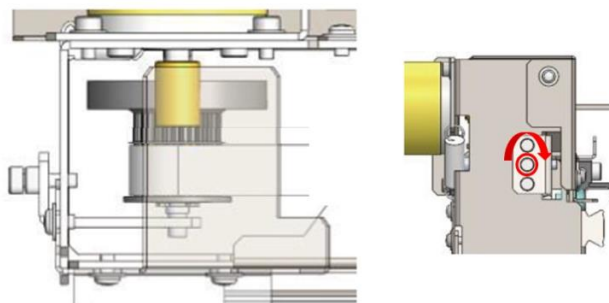


not touch the edge of the pulley.



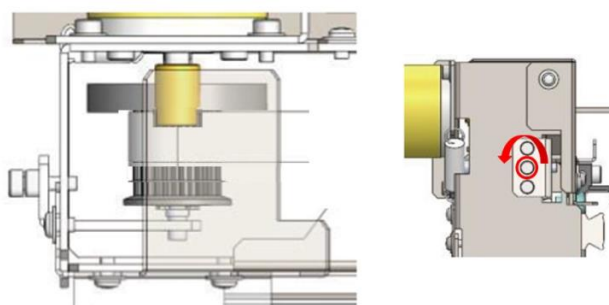
Step 4 / 12

Detail1: Turn the adjustment screw clockwise when the belt on the motor side is close to the front side.



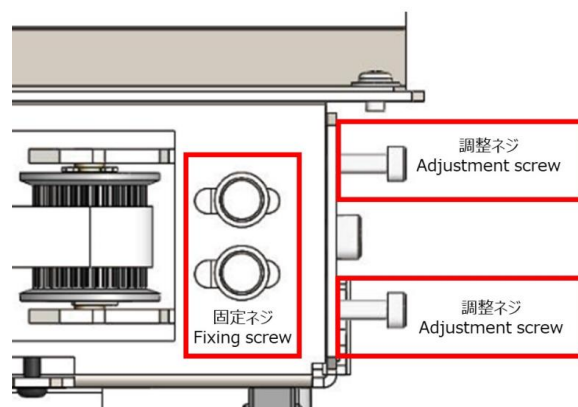
Step 5 / 12

Detail2: Turn the adjustment screw counterclockwise when the belt on the motor side is by the rear side.



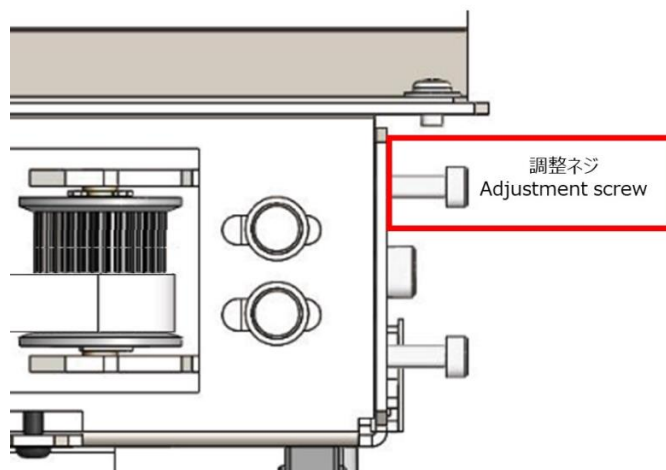
Step 6 / 12

Adjust the belt on the idle pulley side by loosening the fixing screw 1/4 to 1/8 turn. Adjust the position so that the belt does not touch the edge of the pulley.



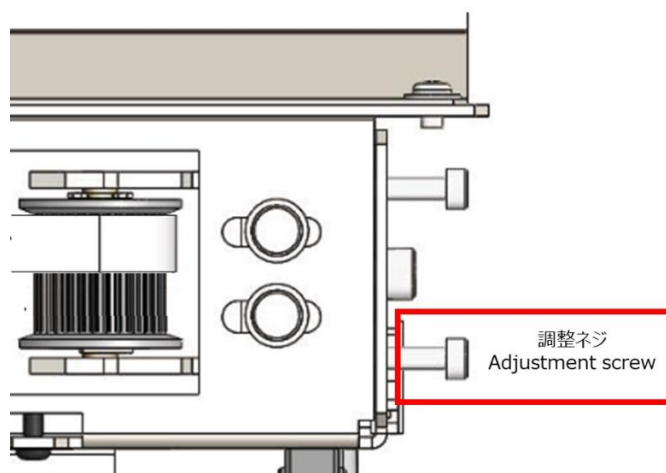
Step 7 / 12

Detail1: If the belt is by the front side, tighten the rear adjustment screw. At this time, be careful not to touch the adjustment screw on the front side.



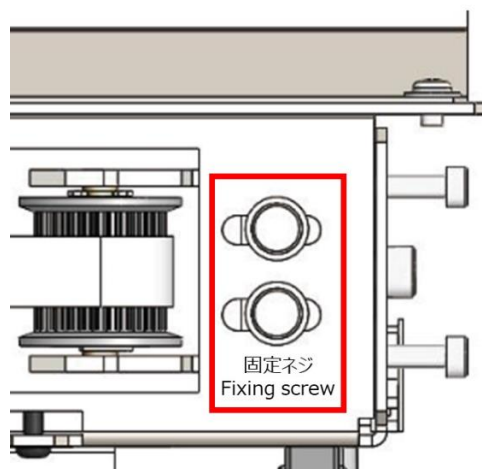
Step 8 / 12

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



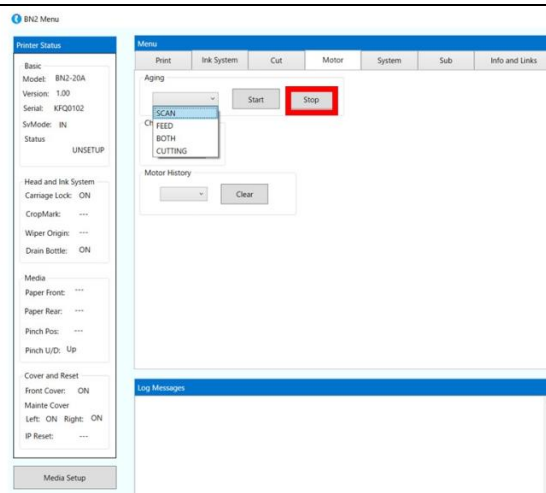
Step 9 / 12

Tighten the fixing screws.



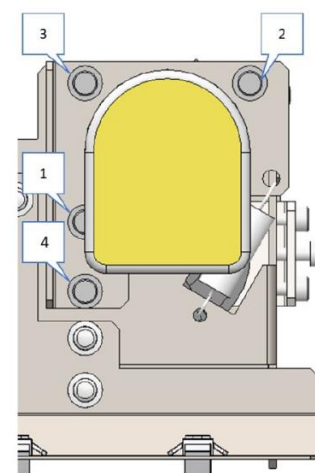
Step 10 / 12

Press [Motor] > [Aging] > [Scan] > [Stop]
to finish Aging.



Step 11 / 12

Loosen the 4 screws on the scan motor
and tighten them in the order shown.
After that, check that there is no
backlash in the gear.



Step 12 / 12

End of work



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

BN2, BY-20 Linear Encoder Position/Limit Position Adjustment

BN2,BY-20 Linear encoder position/Limit position adjustment Information

Step 1 / 9

Necessary tools

一般ツール/General Tool

無し/None	
---------	--

Step 2 / 9

Jigs/special tools

特殊治具/Special Tools

無し/None	
---------	--

Step 3 / 9

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
リアエンコーダー位置調整 Linear encoder set up	3 min.

Step 4 / 9

Connect Peck2 to the printer and enter service mode.

Peck2 Ver. 2.9.0

titoh@rolanddg.co.jp Login Server Update

Printer Info	User Information	Certification Points	
Model:	Certified: YES	Category	Rank
Status: Not Connected	Expired after: 16 days	Installer	-
Firm Ver: -	Region Code:	Color	-
Service Menu: Close		Dental	-
		3D	-

Machine Operation	Information	Site Links	Work Report
Connect Printer	Global Dashboard	RDG Connect Page	Completed #: 0
Check Report	Start SV Assist App	Imagi-net Product Page	Incompleted #: 11
Update Firmware	Help	Check KB Article	
Put Parameter			

Incompleted work report list

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

Step 5 / 9

Detail1: Start Peck2.



Step 6 / 9

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
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
Check Report	Check KB Article	Incompleted #: 2
Update Firmware	Imagi-net Product Page	
Put Parameter	Help	

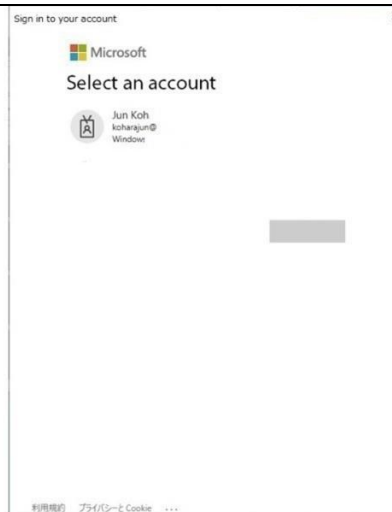
Incompleted work report list

VG2-640_ZDV01_20210507_084958.pec

VG2-640_ZDV01_20210506_160305.pec

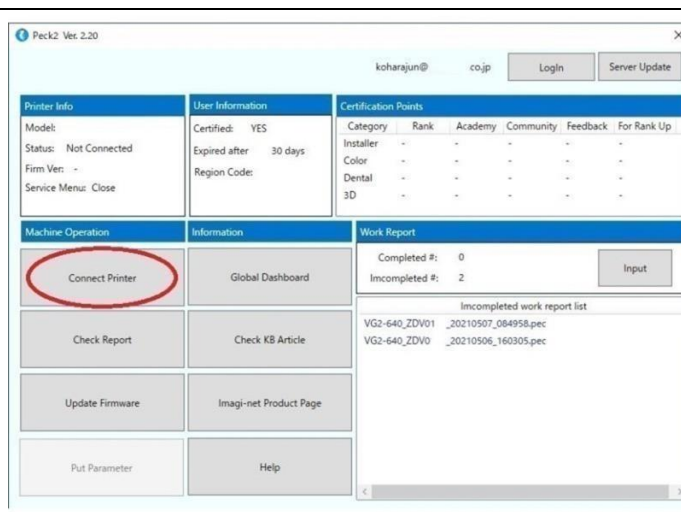
Step 7 / 9

Detail3: Log in with your Imagi-net ID.



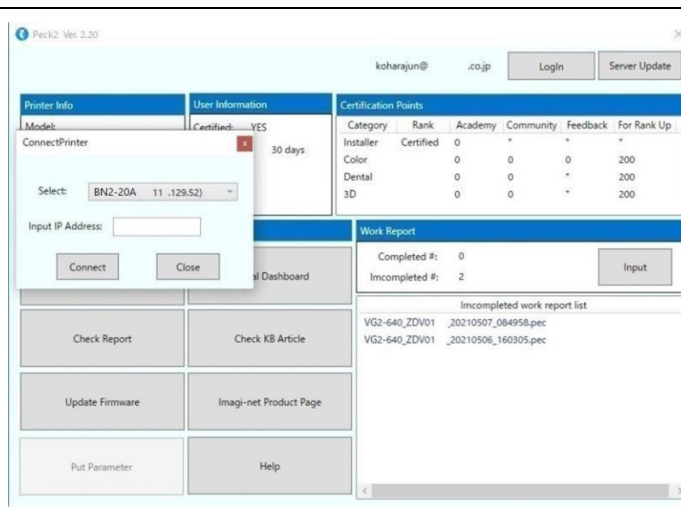
Step 8 / 9

Detail4: Click the [Connect Printer] button.



Step 9 / 9

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

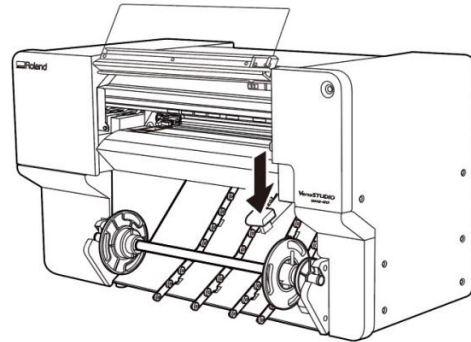


BN2, BY-20 Linear Encoder Position/Limit Position Adjustment

BN2,BY-20 Linear Encoder Position/Limit Position Adjustment Procedure

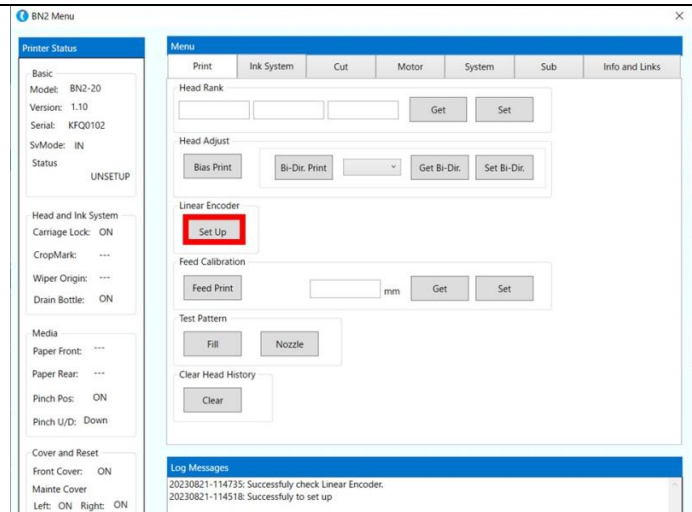
Step 1 / 4

Lower the setup lever without installing media.



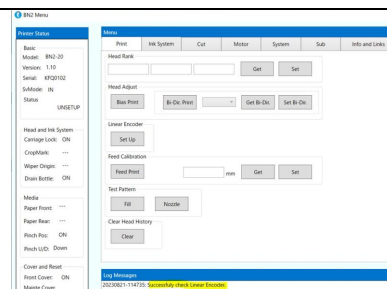
Step 2 / 4

Press [Print] > [Linear Encoder] > [Set Up].



Step 3 / 4

If [Successful check Linear Encoder] is displayed in the [Log Messages] column, setup is completed.



Wednesday, July 2, 2025 9:43 PM

Language: en

Step 4 / 4

Cause of error

エラー発生時の要因

エンコーダスケールの汚れ、傷
エンコーダモジュールの汚れ、破損
エンコーダスケール／モジュールの位置関係異常
キャリッジモータギアとドライブギアとのバックラッシュ
キャリッジとベルトとの固定
ケーブル接触不良

Factors when an error occurs

Dirt/Scratch on the Encoder Scale.
Dirt/Scratch on the Encoder Module.
Encoder Scale is not between the Encoder Module.
Backlash of the Carriage Motor Gear and the Drive Gear.
Fixation between the Carriage and the Carriage Belt.
Bad Contact of the cables.

BN2,BY-20 Flushing position adjustment

BN2,BY-20 Flushing position adjustment Information

Step 1 / 14

Necessary tools

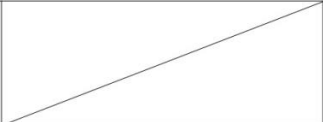
一般ツール/General Tool

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

Step 2 / 14

Jigs/special tools

特殊治具/Special Tools

無し/None	
---------	---

Step 3 / 14

Typical work time

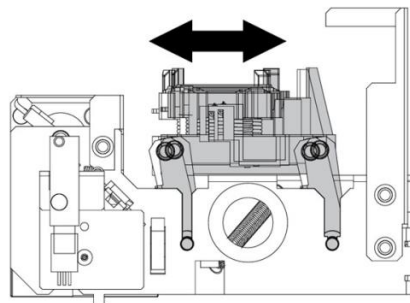
作業時間/Typical work time

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 4 / 14

Outline diagram

概要図/Outline Diagram



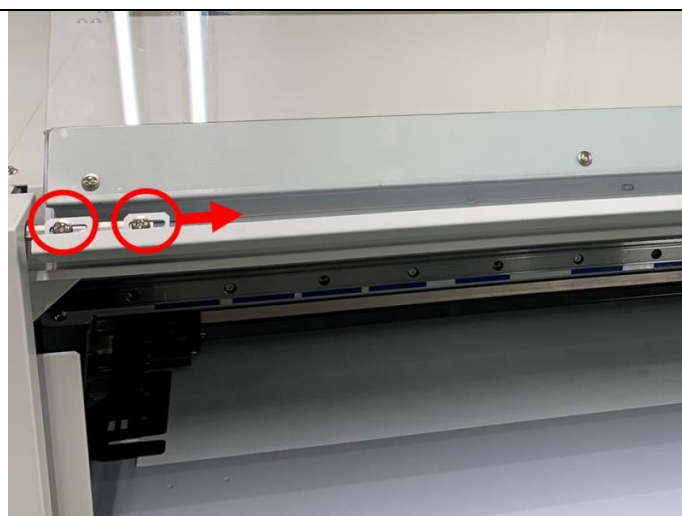
Step 5 / 14

Remove the covers.



Step 6 / 14

Detail1: Remove the front cover by loosening the screw on one side and sliding the bar.



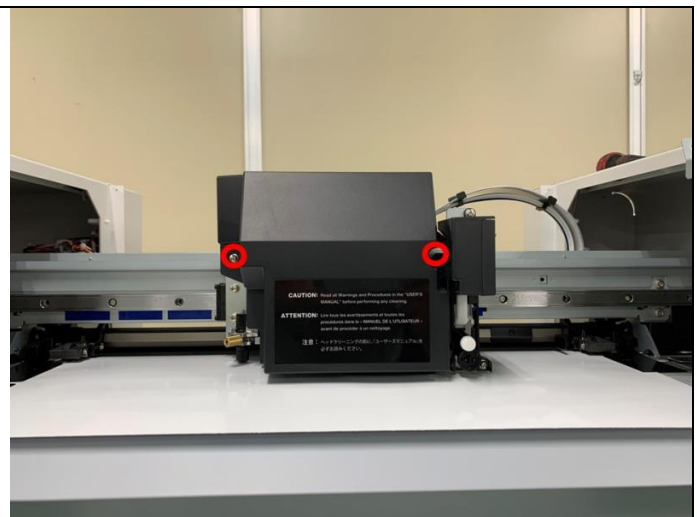
Step 7 / 14

Detail2: Remove the 7 screws on the top cover.



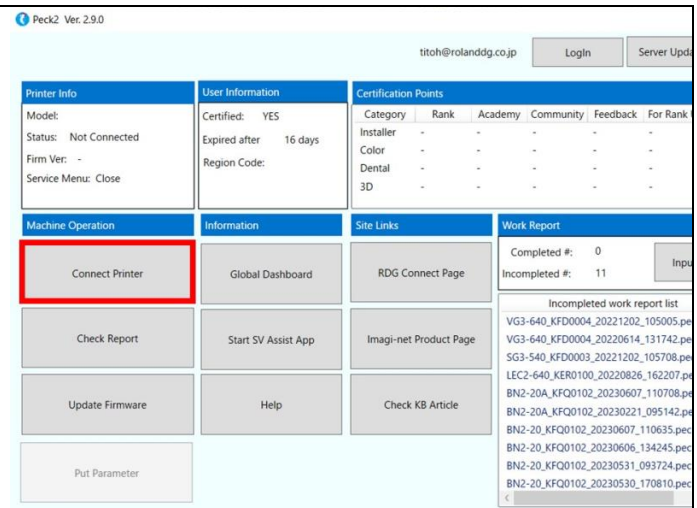
Step 8 / 14

Detail3: Remove the 2 screws and remove the print head carriage cover.



Step 9 / 14

Connect Peck2 to the machine and enter service mode.



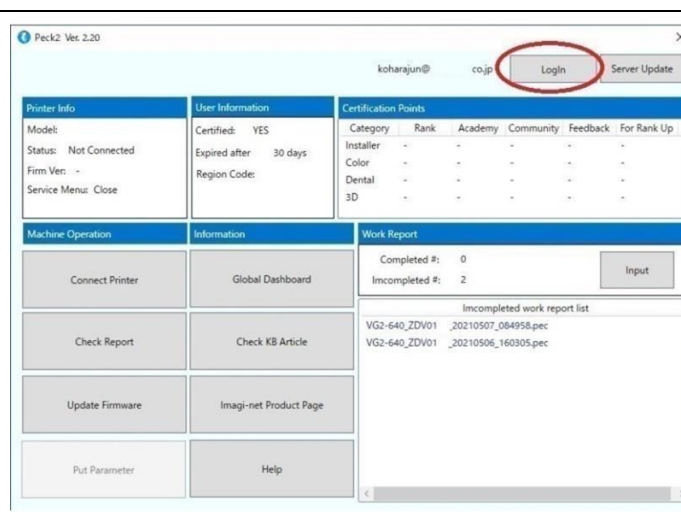
Step 10 / 14

Detail1: Start Peck2.



Step 11 / 14

Detail2: Click the [Login] button.



Step 12 / 14

Detail3: Log in with your Imagi-net ID.



Step 13 / 14

Detail4: Click the [Connect Printer] button.

Peck2 V6c 2.30

koharjun@ .co.jp Login Server Update

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

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

Incompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Step 14 / 14

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

Peck2 V6c 2.30

koharjun@ .co.jp Login Server Update

Printer Info	User Information	Certification Points
Model:	Certified: YES	Category Rank Academy Community Feedback For Rank Up
ConnectPrinter	Expired after: 30 days	Installer Certified 0 * * *
Select: BN2-20A 11 .129.52		Color 0 0 0 200
		Dental 0 0 * 200
		3D 0 0 * 200

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

Incompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

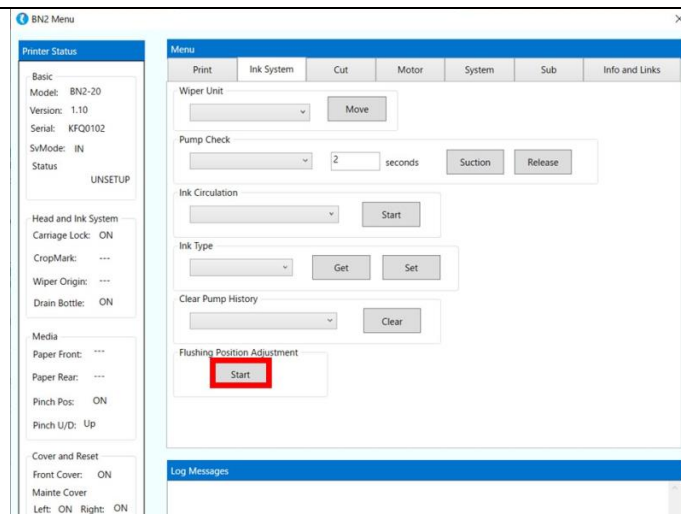
BN2,BY-20 Flushing position adjustment

BN2,BY-20 Flushing position adjustment

Procedure

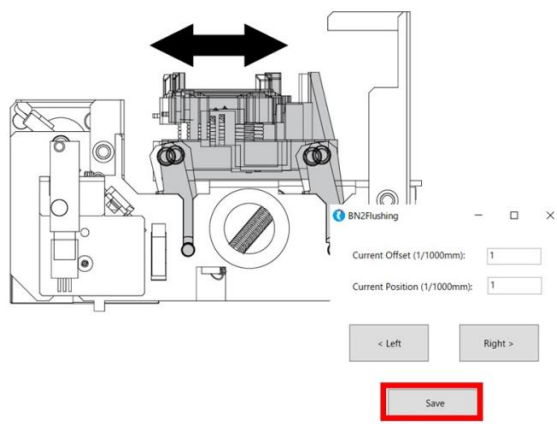
Step 1 / 6

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



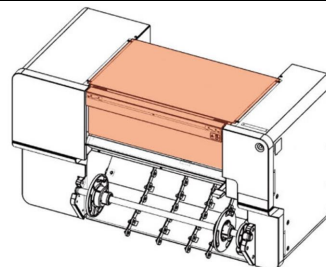
Step 2 / 6

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



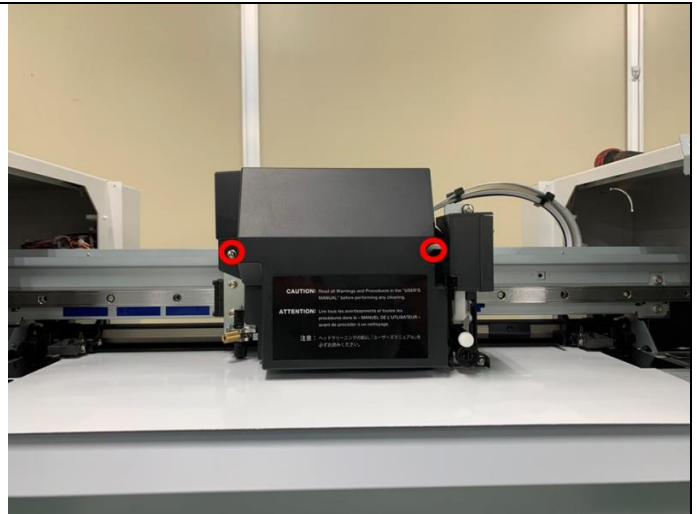
Step 3 / 6

Put back the removed covers.
Adjustment is complete.



Step 4 / 6

Detail1: Attach the print head carriage cover with 2 screws.



Step 5 / 6

Detail2: Attach the top cover with 7 screws.



Step 6 / 6

Detail3: Attach the front cover by loosening the screw on one side and sliding the bar.



BN2,BY-20 Tool pressure adjustment

BN2,BY-20 Tool pressure adjustment Information

Step 1 / 15

Necessary tools

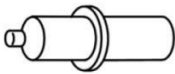
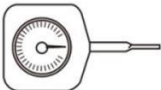
一般ツール/General Tool

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

Step 2 / 15

Jigs/special tools

特殊治具/Special Tools

ST-002 TENSION GAUGE 300g (3N)	
ST-006 WHITE DUMMY PEN	
ST-012 DIAL TENSION METER DTB-50	

Step 3 / 15

Typical work time

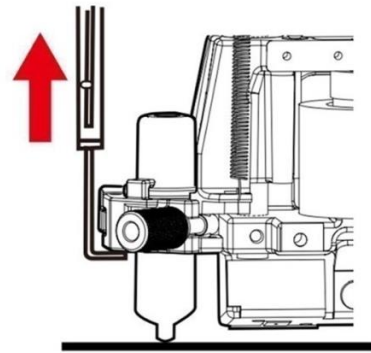
作業時間/Typical work time

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

Step 4 / 15

Outline diagram

概要図/Outline Diagram



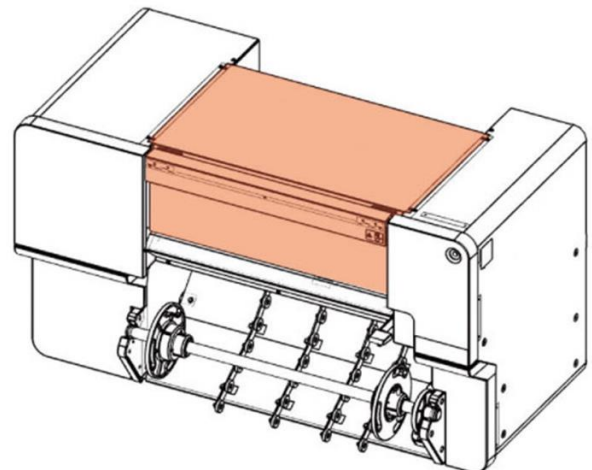
Step 5 / 15

Remove the covers and place the print head carriage in the center of the bed with the print head visible.



Step 6 / 15

Detail1: Covers that need to be removed



Step 7 / 15

Detail2: Remove the front cover by loosening the screw on one side and sliding the bar.



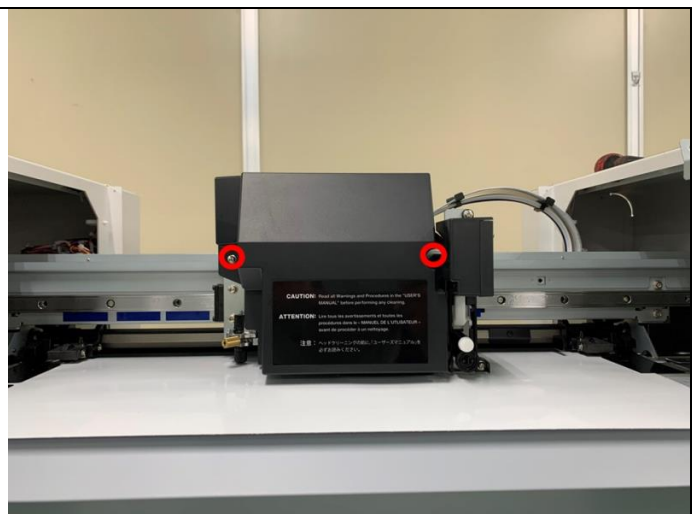
Step 8 / 15

Detail3: Remove the 7 screws on the TOP cover.



Step 9 / 15

Detail4: Remove the 2 screws and remove the print head carriage cover.



Step 10 / 15

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:	Certified: YES	Category	Rank	Academy	Community	Feedback	For Rank Up
Status: Not Connected	Expired after: 16 days	Installer	-	-	-	-	-
Firm Ver: -	Region Code:	Color	-	-	-	-	-
Service Menu: Close		Dental	-	-	-	-	-
		3D	-	-	-	-	-

Machine Operation	Information	Site Links	Work Report
Connect Printer	Global Dashboard	RDG Connect Page	Completed #: 0 Incomplete #: 11
Check Report	Start SV Assist App	Imagi-net Product Page	Incomplete 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
Update Firmware	Help	Check KB Article	
Put Parameter			

Step 11 / 15

Detail1: Start Peck2.



Step 12 / 15

Detail2: Click the [Login] button.

Peck2 Ver. 2.20

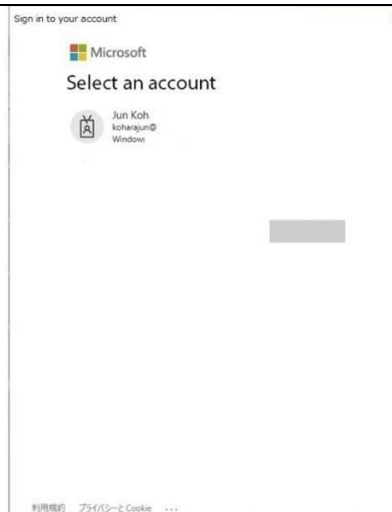
koharajun@ co.jp Login Server Update

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
Check Report	Check KB Article	Incomplete work report list VG2-640_ZDV01_20210507_084958.pec VG2-640_ZDV01_20210506_160305.pec
Update Firmware	Imagi-net Product Page	
Put Parameter	Help	

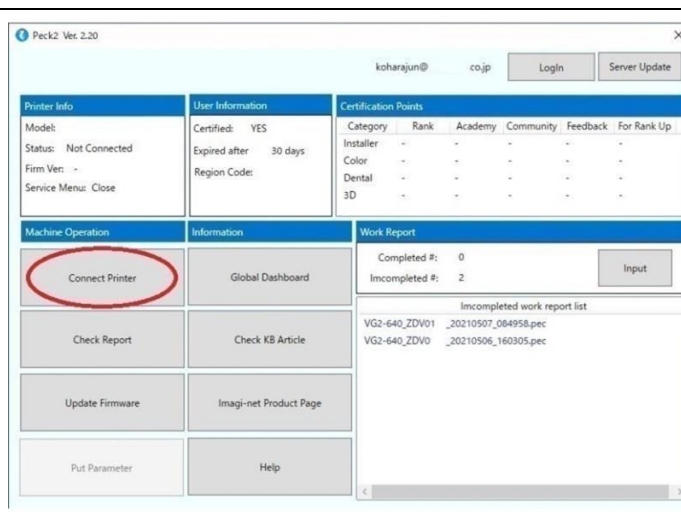
Step 13 / 15

Detail3: Log in with your Imagi-net ID.



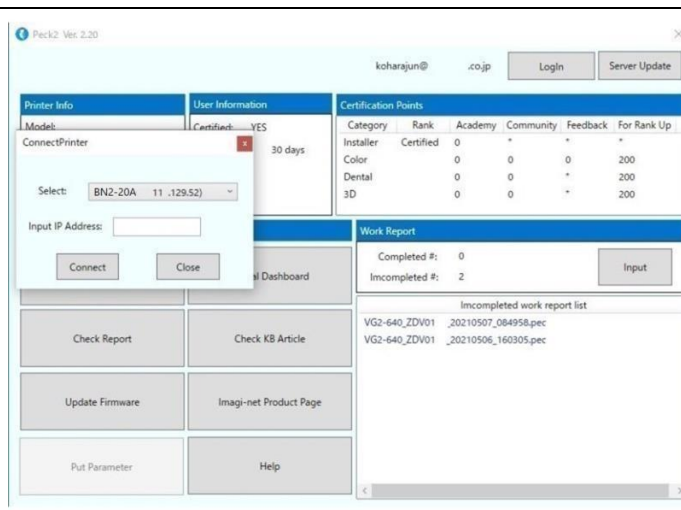
Step 14 / 15

Detail4: Click the [Connect Printer] button.



Step 15 / 15

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



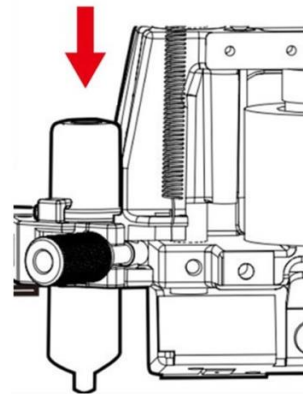
BN2,BY-20 Tool pressure adjustment

BN2,BY-20 Tool pressure adjustment

Procedure

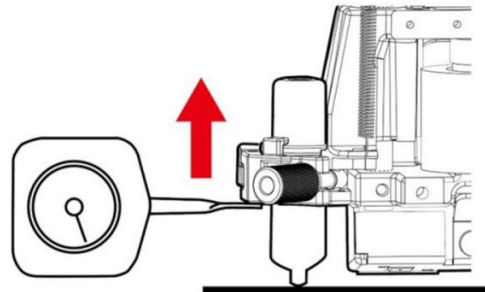
Step 1 / 13

Attach the dummy pen to the printer and start the adjustment.



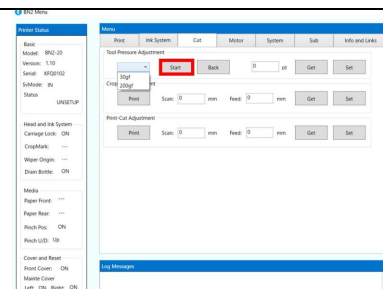
Step 2 / 13

Measure the tool pressure of 30 gf on the pen holder with a dial tension meter.



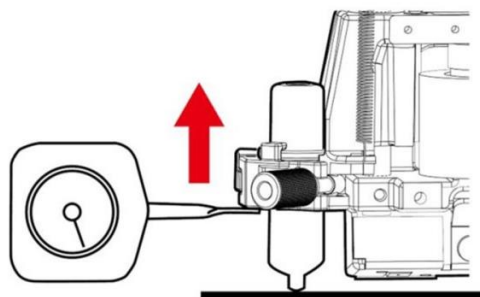
Step 3 / 13

Detail1: Press [Cut] > [Tool pressure adjustment] > [30gf] > [Start] to start the tool pressure adjustment at 30 gf.



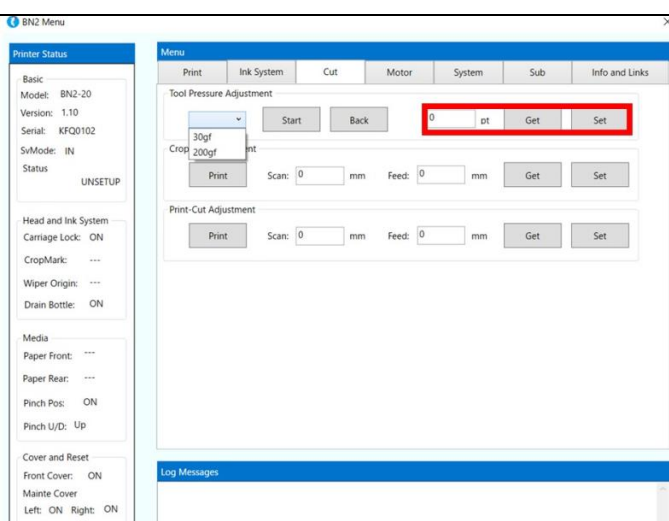
Step 4 / 13

Detail2: Lift the pen holder with the dial tension meter and check the value when the pen tip leaves the bed.



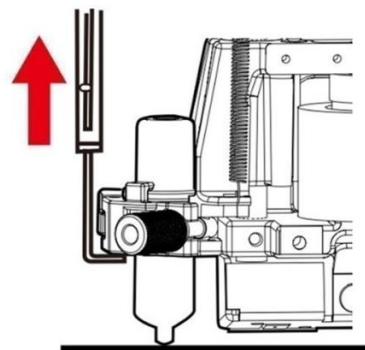
Step 5 / 13

Detail3: Select [Cut] > [Tool pressure adjustment] > [30gf] and enter the measured value.



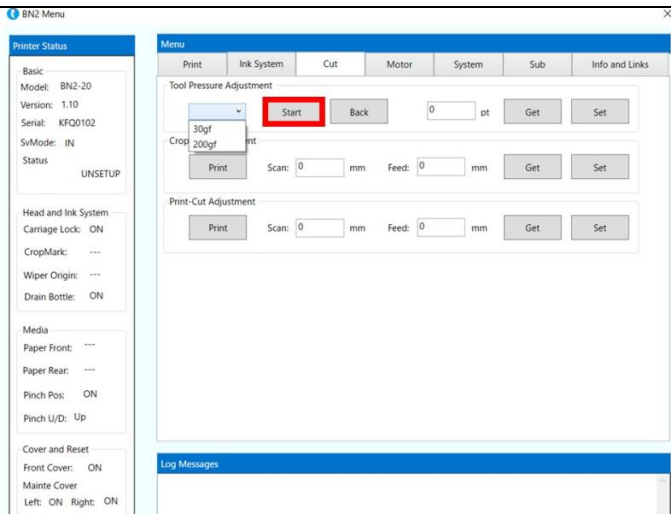
Step 6 / 13

Measure the tool pressure of 200 gf on the pen holder with a spring scale.



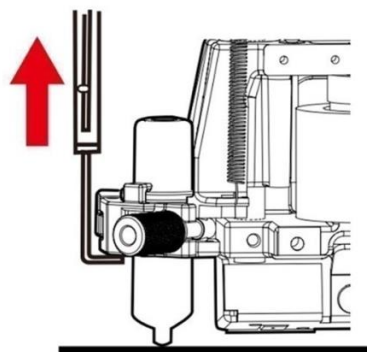
Step 7 / 13

Detail1: Press [Cut] > [Tool pressure adjustment] > [200gf] > [Start] to start the pen pressure adjustment at 200 gf.



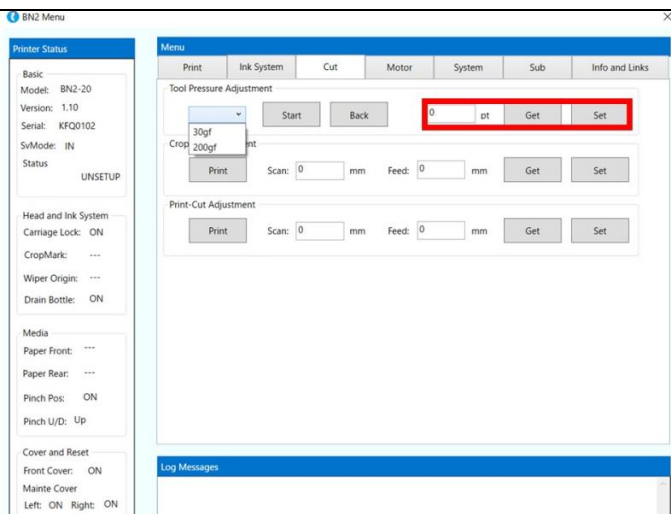
Step 8 / 13

Detail2: Lift the pen holder with a spring scale and check the value when the pen tip leaves the bed.



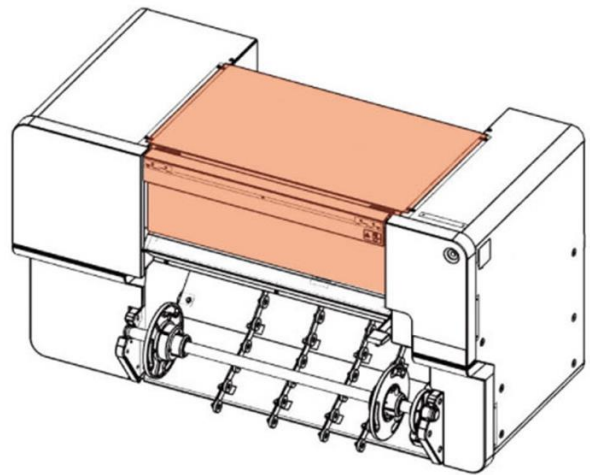
Step 9 / 13

Detail3: Select [Cut] > [Tool pressure adjustment] > [200gf] and enter the measured value.



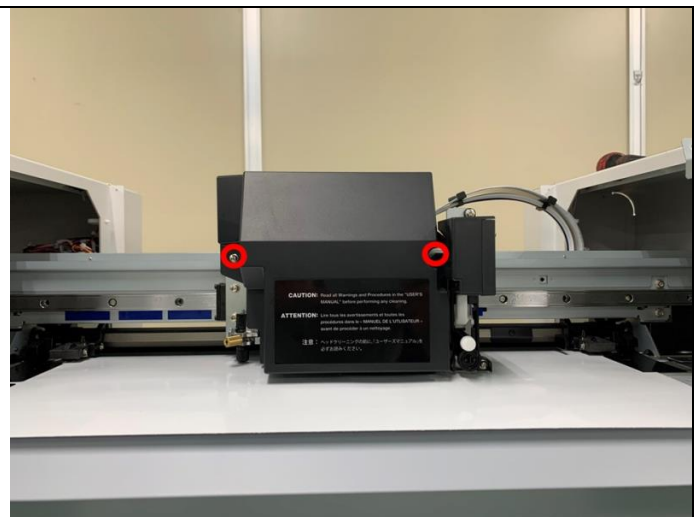
Step 10 / 13

Put back the removed covers.
Adjustment is complete.



Step 11 / 13

Detail1: Attach the print head carriage
cover with 2 screws.



Step 12 / 13

Detail2: Attach the top cover with 7
screws.



Step 13 / 13

Detail3: Attach the front cover by loosening the screw on one side and sliding the bar.



BN2,BY-20 Multi sensor adjustment

BN2,BY-20 Multi sensor adjustment

Information

Step 1 / 2

Necessary tools

一般ツール/General Tool

白メディア
White media



Step 2 / 2

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
マルチセンサー調整 Multi sensor adjustment	5min.

BN2,BY-20 Multi sensor adjustment

BN2,BY-20 Multi sensor adjustment

Procedure

Step 1 / 10

Connect Peck2 to the printer and enter Service Mode.

Peck2 Ver. 2.9.0

titoh@rolanddg.co.jp

Login

Server Upd

Printer Info	User Information	Certification Points
Model:	Certified: YES	Category Rank Academy Community Feedback For Rank
Status: Not Connected	Expired after 16 days	Installer - - - - -
Firm Ver: -	Region Code:	Color - - - - -
Service Menu: Close		Dental - - - - -
		3D - - - - -
Machine Operation	Information	Site Links
Connect Printer	Global Dashboard	RDG Connect Page
Check Report	Start SV Assist App	Imagi-net Product Page
Update Firmware	Help	Check KB Article
Put Parameter		
		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.

Step 3 / 10

Detail2: Click on the Login button.

Peck2 Ver. 2.9.0

titoh@rolanddg.co.jp

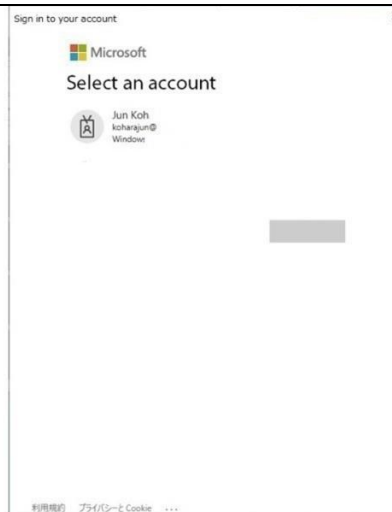
Login

Server Upd

Printer Info	User Information	Certification Points
Model:	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: Not Connected	Expired after 16 days	Installer - - - - -
Firm Ver: -	Region Code:	Color - - - - -
Service Menu: Close		Dental - - - - -
		3D - - - - -
Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0
Check Report	Check KB Article	Incompleted #: 2
Update Firmware	Imagi-net Product Page	Input
Put Parameter	Help	Incompleted work report list
		VG3-640_2D001_20210517_084918.pe
		VG3-640_2D001_20210506_161000.pe

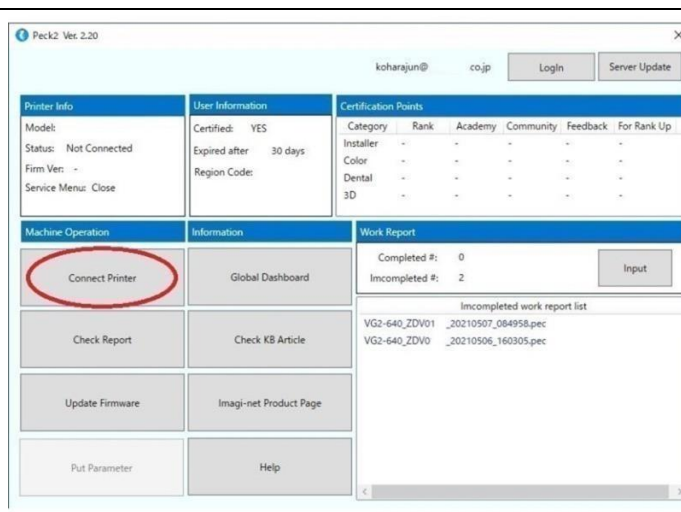
Step 4 / 10

Detail3: gin with your Imagi-net ID.



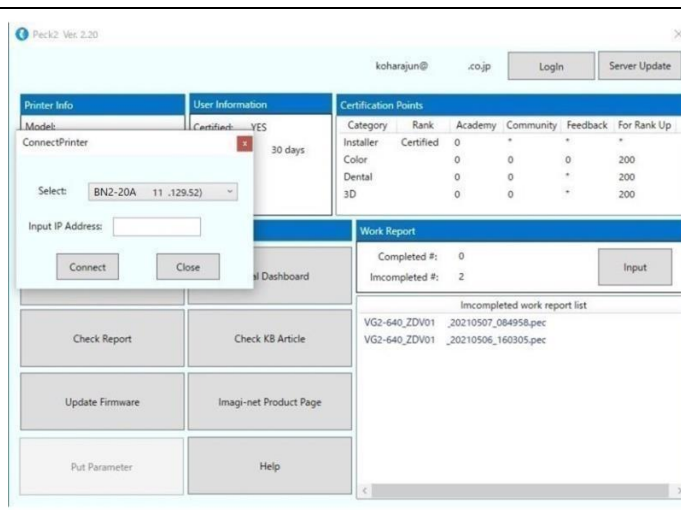
Step 5 / 10

Detail4: Click the Connect Printer button.



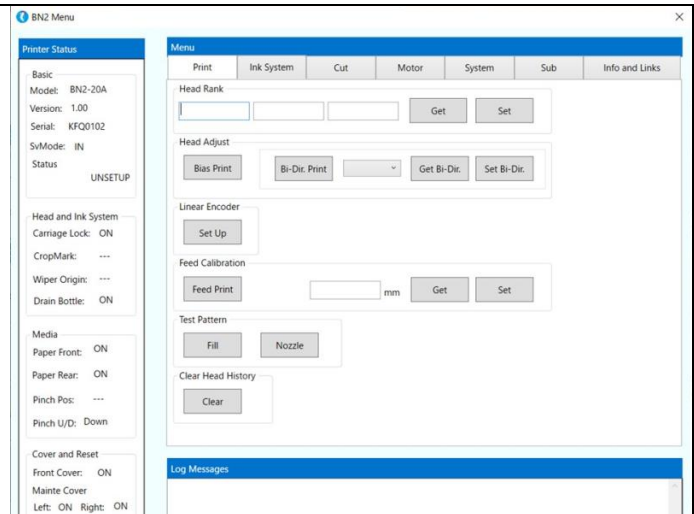
Step 6 / 10

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



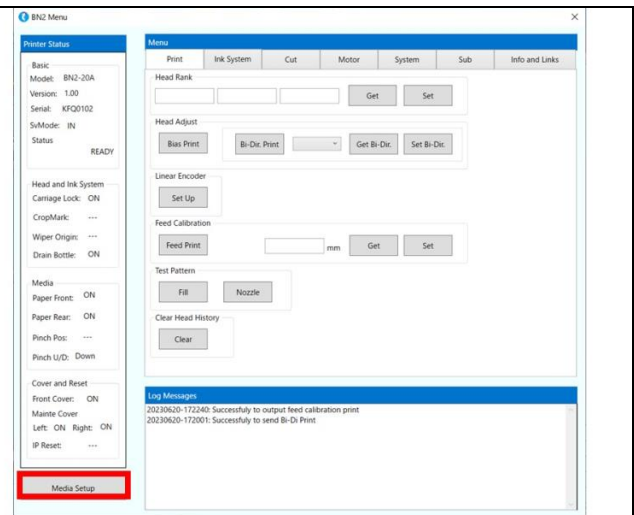
Step 7 / 10

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 device.



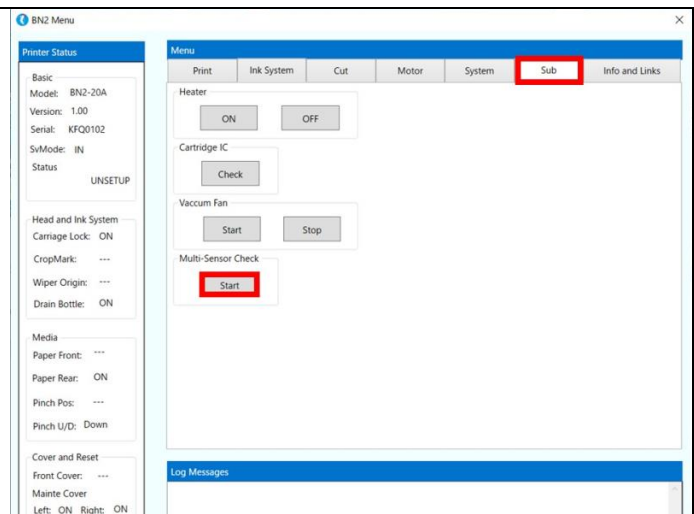
Step 8 / 10

Load the media and set it up.



Step 9 / 10

Press [Sub] > [Multi-Sensor Check] > [Start] to start automatic adjustment.



Step 10 / 10

Recalibrate the multi-color sensor for each user-configured media in your utility.

