

The following
material is
confidential.



MG-640,300

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MG-640300 Print Head Replacement

MG-640300 Print Head Replacement Information

Step 1 / 5

<Work after parts replacement>

- Print head alignment -Crop cut adjustment [CUTTING MENU] > [CROP-CUT ADJ.] -Print cut adjustment [CUTTING MENU] > [PRINT-CUT ADJ.]



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	
1000005829 TOOL,VINYL VE UV RESISTANT ST-113	

Step 4 / 5

Typical work time

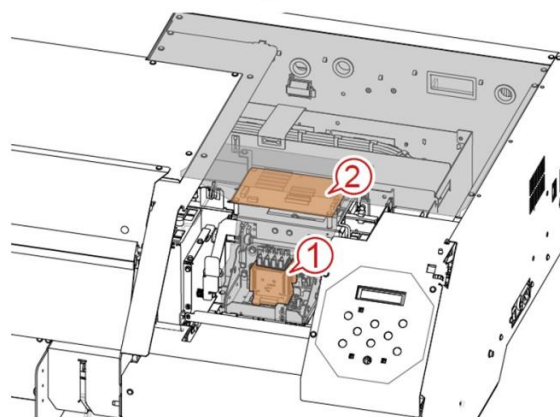
作業時間/Typical work time

作業内容/Contents of work	時間/Time
ヘッド交換 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.
クロップカット位置調整 Crop/cut adjustment	10 min.
プリントカット位置調整 Print/cut position adjustment	10 min.

Step 5 / 5

1. Print head, 2. Print carriage board

概要図/Outline Diagram

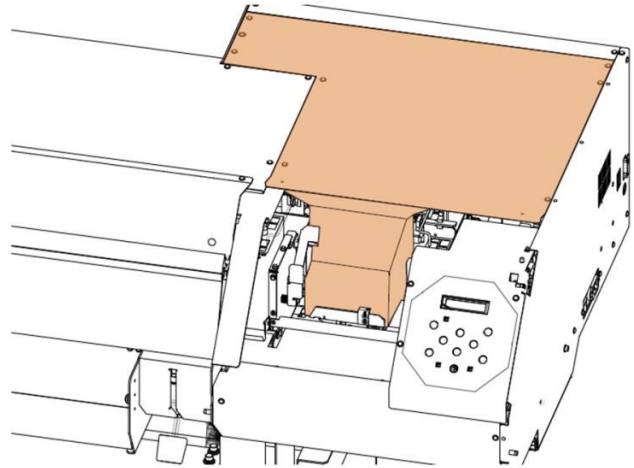


MG-640300 Print Head Replacement

MG-640300 Print Head Replacement Procedure

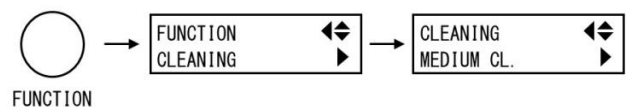
Step 1 / 34

Cover That Needs to Be Removed



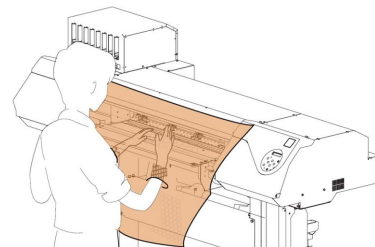
Step 2 / 34

To prevent ink from hardening, finish this procedure in 20 minutes or less. Perform medium cleaning on all print heads if 20 minutes passes.



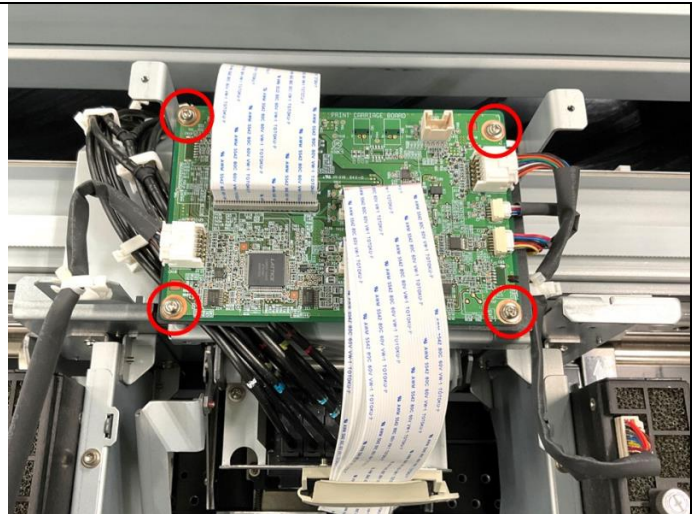
Step 3 / 34

Always use the UV protection sheet during this work, or ink will harden and clog inside the ink line.



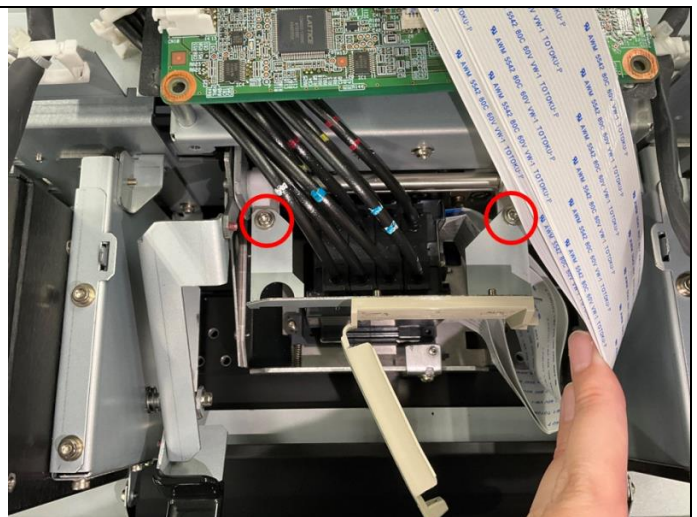
Step 4 / 34

Remove the screws of the print carriage board.



Step 5 / 34

Remove the ribbon cable stay.



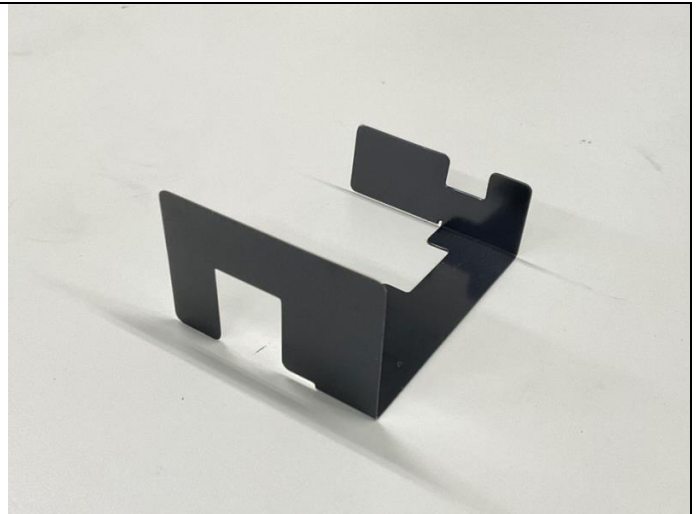
Step 6 / 34

Remove the light shielding cover.



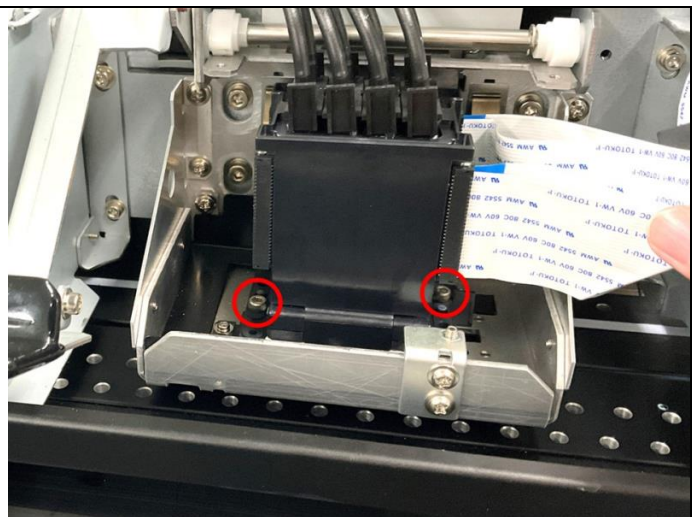
Step 7 / 34

Detail1: The light shading cover has depth.



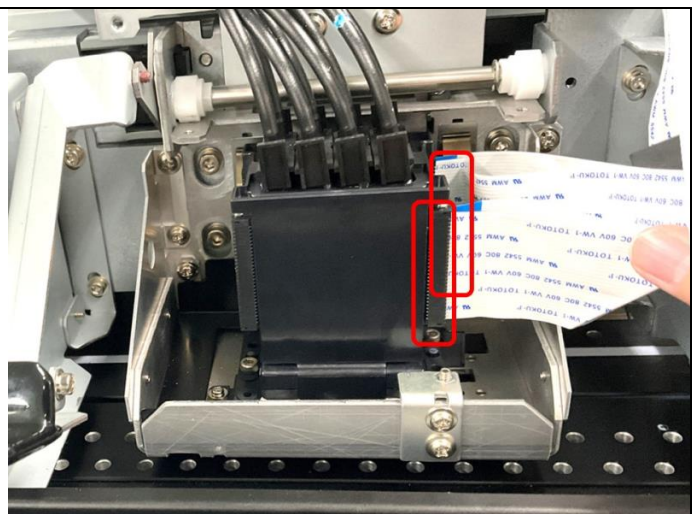
Step 8 / 34

Remove the print head.



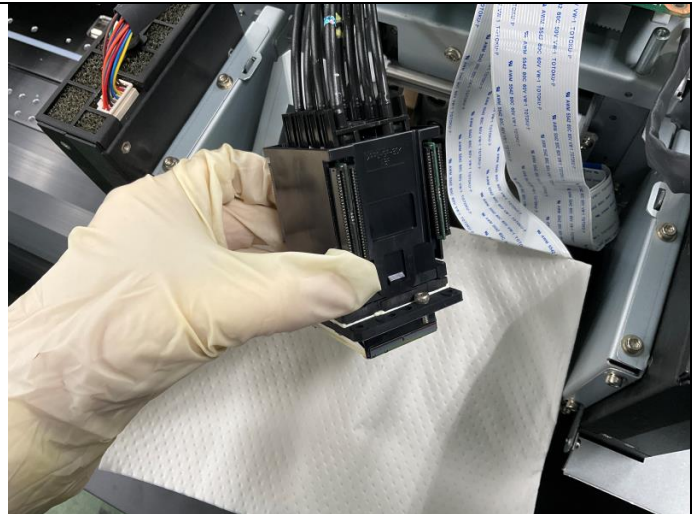
Step 9 / 34

Disconnect all the ribbon cables connected to the print head.



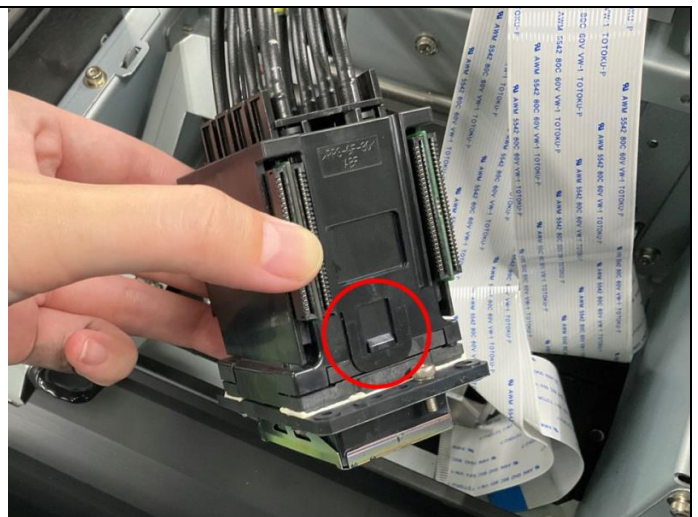
Step 10 / 34

To prevent ink from leaking or spattering, put a dry cloth when removing the print head.



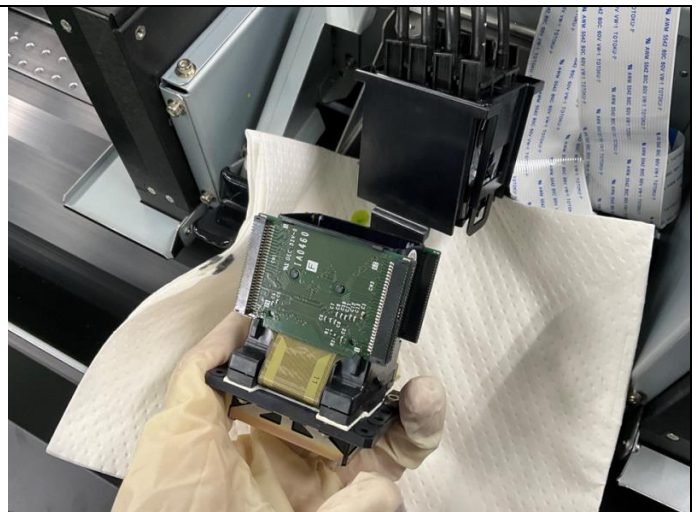
Step 11 / 34

Unhook the hook of the print head cover to remove the print head from the damper.



Step 12 / 34

Attach a new print head to the damper.



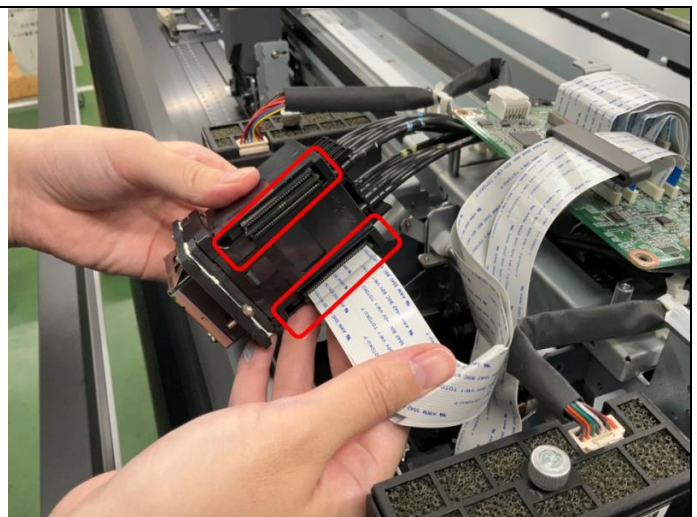
Step 13 / 34

Detail1: The board surface that has the letter “F” is the front side. Press the cover to the print head until the hook of the head cover clicks into place.



Step 14 / 34

Connect the ribbon cables to the print heads.



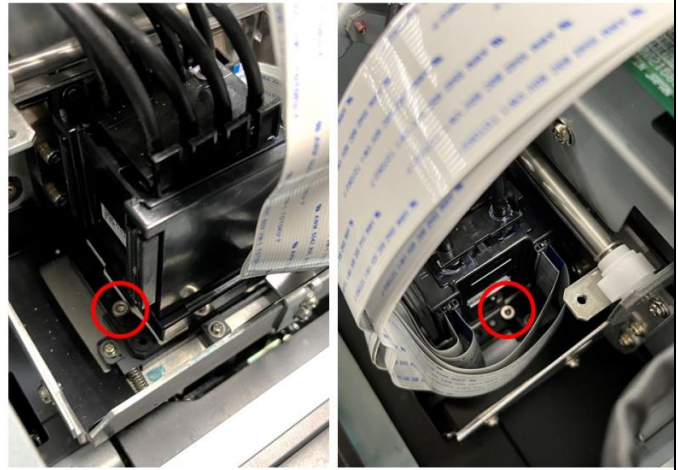
Step 15 / 34

Confirm that the ribbon cables are connected correctly in the order shown in the figure.



Step 16 / 34

Tighten two screws that secure the print head, using a torque screwdriver. Use a torque screwdriver (ST-056 TORQUE DRIVER N6/ Torque value: 60 cN·m) and a hexagonal bit (1000006902 TOOL,BITHEXAGONAL ST-118) to tighten the screws.



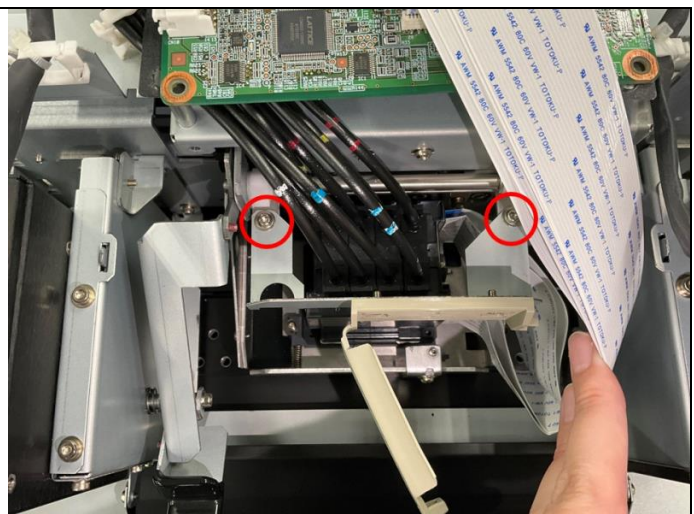
Step 17 / 34

Attach the light shielding cover.



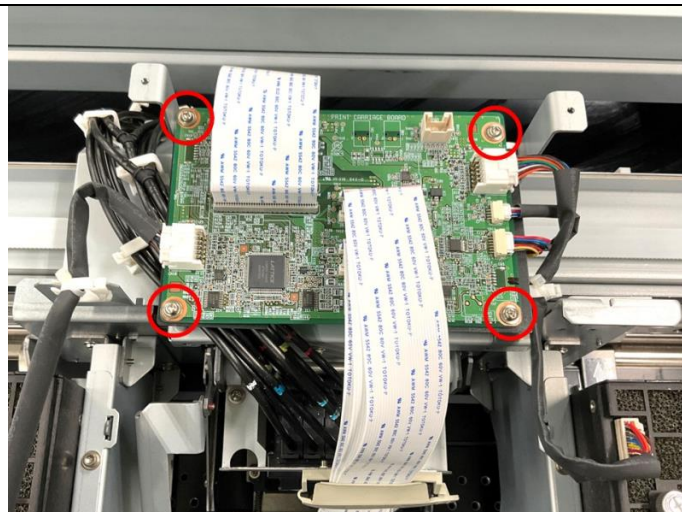
Step 18 / 34

Attach the ribbon cable stay.



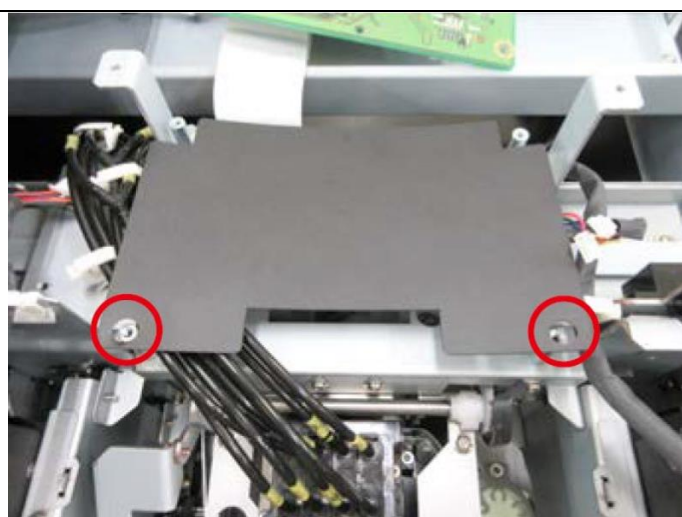
Step 19 / 34

Attach the screws of the print carriage board.



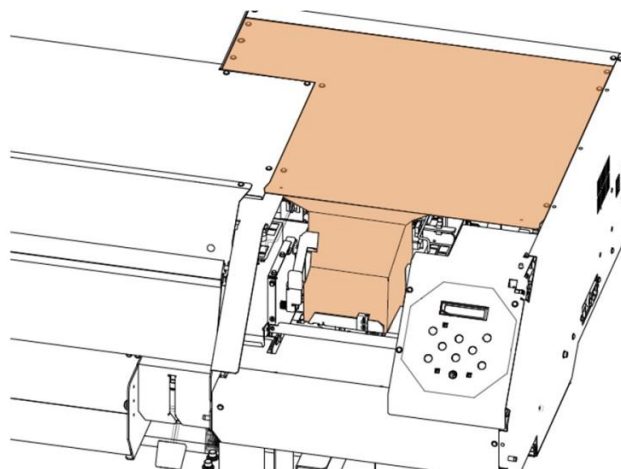
Step 20 / 34

Detail1: CAUTION Align the positions of the screw holes of black cover under the print carriage board with the holes of the print carriageboard, and then tighten the screws.



Step 21 / 34

Attach the covers.



Step 22 / 34

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



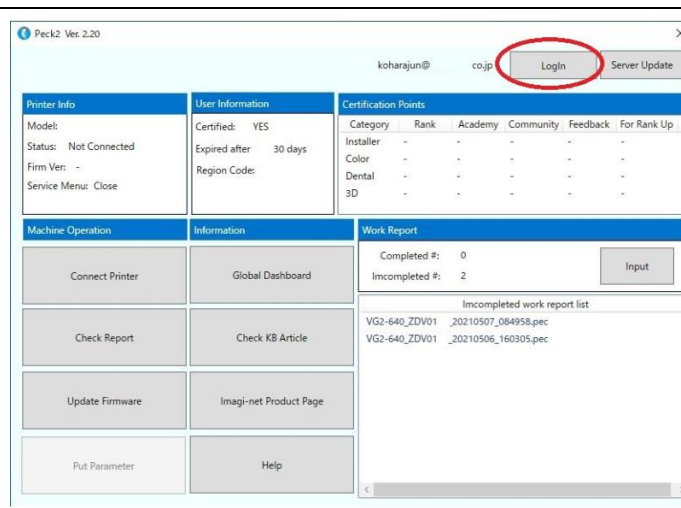
Step 23 / 34

Detail1: Start Peck2.



Step 24 / 34

Detail2: Click the [Login] button.



Step 25 / 34

Detail3: Log in with Imagi-net ID.

Sign in to your account

Microsoft

Select an account



Jun Koh
koharajun@
Window

利用規約 プライバシーとCookie ...

Step 26 / 34

Detail4: Click the [Connect Printer] button.

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

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

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

Step 27 / 34

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

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
ConnectPrinter	Expired after: 30 days	Installer Certified 0 * * *
		Color 0 0 0 0 200
		Dental 0 0 * * 200
		3D 0 0 * * 200

Select: VG2-640(11 .129.52) ▼

Input IP Address:

Connect Close

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

Step 28 / 34

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

Peck2 Ver. 2.20

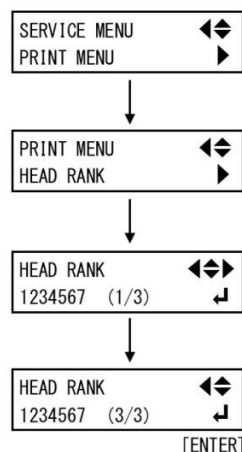
koharajun@ .co.jp Login Server Update

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

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

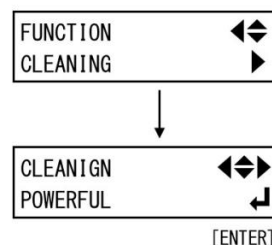
Step 29 / 34

Select [SERVICE MENU] > [PRINT MENU] > [HEAD RANK], and input the head rank, which is written on a new print headpackage. Input the head rank by selecting the corresponding digit with [] [] keys and changing the parameters with [] [] keys. Then press the [ENTER] key to save the setting.



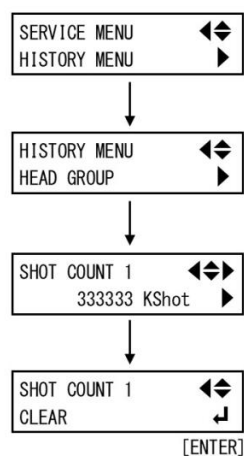
Step 30 / 34

Perform [FUNCTION] > [CLEANING] > [POWERFUL] once.



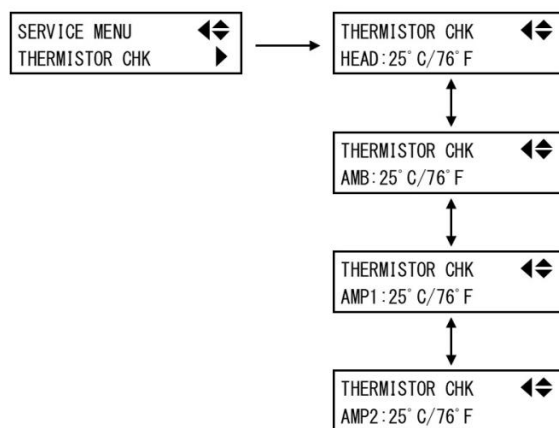
Step 31 / 34

Clear print head information. Perform [SERVICE MENU] > [HISTORY MENU] > [HEAD GROUP] > [SHOT COUNT1] to [SHOTCOUNT8] > [CLEAR].



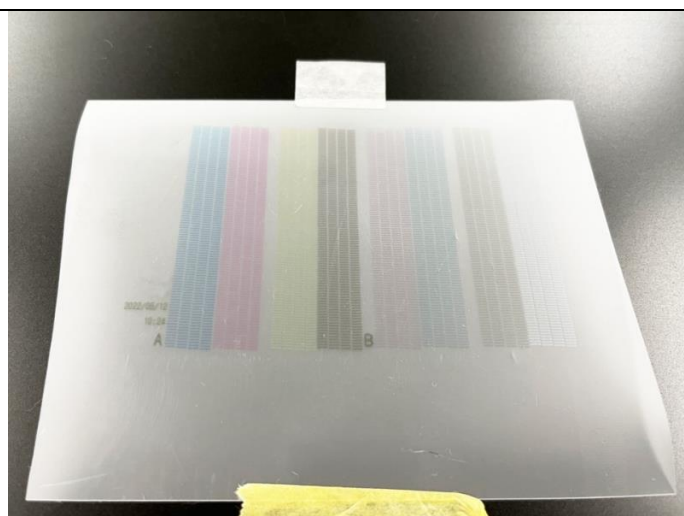
Step 32 / 34

Thermistor check [SERVICE MENU] > [THERMISTOR CHK]



Step 33 / 34

Perform Test Print. When the printing result has missing dots or misaligned dots, perform cleaning again.



Step 34 / 34

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



次の手順

ヘッド位置調整
クロープカット調整
プリントカット調整

Next Step

Print head adjustment
Crop-cut adjustment
Print/cut position adjustment

MG-640300 Ink Damper Replacement

MG-640300 Ink 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	

Step 2 / 3

Typical work time

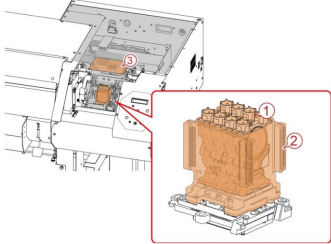
作業時間/Typical work time

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

Step 3 / 3

1.Damper, 2.Print head, 3.Print carriage board

概要図/Outline Diagram

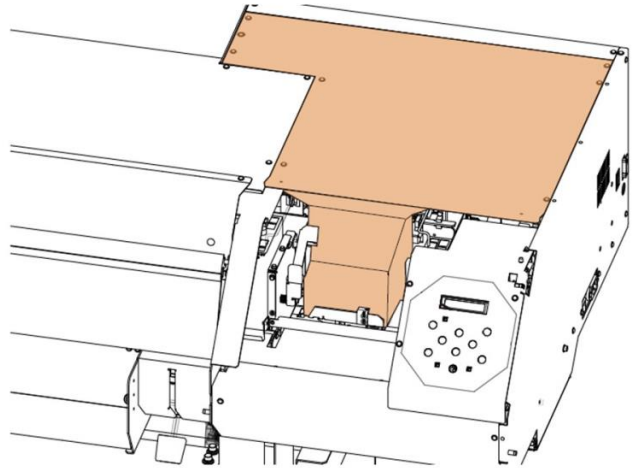


MG-640300 Ink Damper Replacement

MG-640300 Ink Damper Replacement Procedure

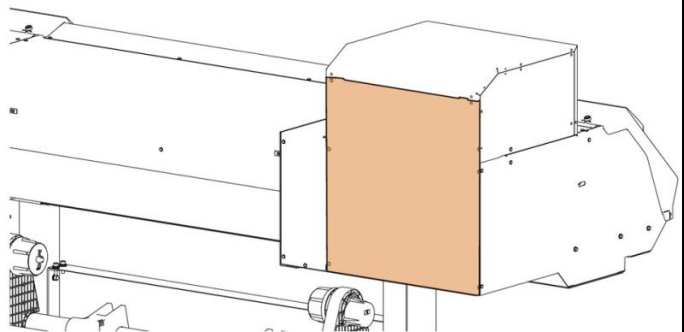
Step 1 / 41

Cover that needs to be removed 1



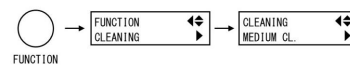
Step 2 / 41

Cover that needs to be removed 2



Step 3 / 41

To prevent ink from hardening, finish this procedure in 20 minutes or less.
Perform medium cleaning on all print

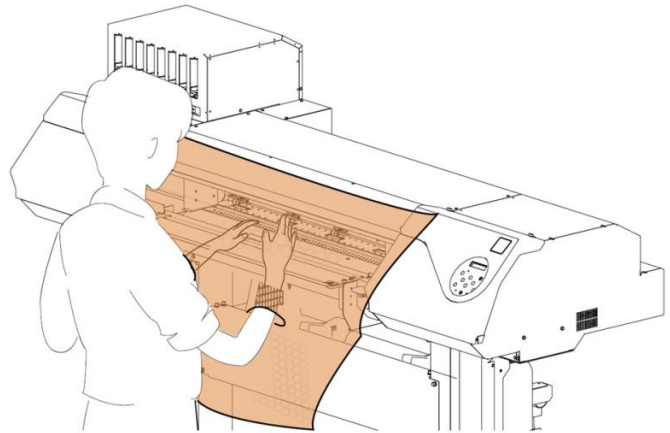


heads if 20 minutes passes.



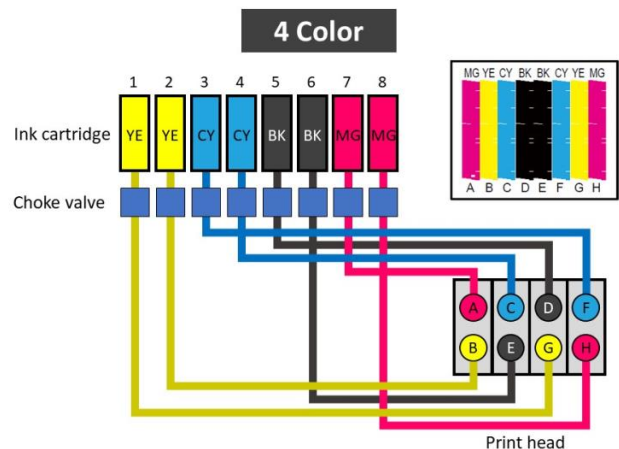
Step 4 / 41

Always use the UV protection sheet during this work, or ink will harden and clog inside the ink line.



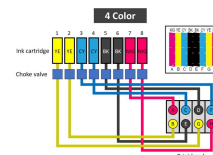
Step 5 / 41

Choke valves open automatically when the main power switch is turned off. Be sure to close the choke valves first before removing the damper. Before replacing the damper, check which damper is connected to which choke valve referring to the following figures. Even if ink settings are different, the connection routes between ink cartridges and dampers are the same. Please decide the choke valve you close not by colors but by ink cartridge numbers.



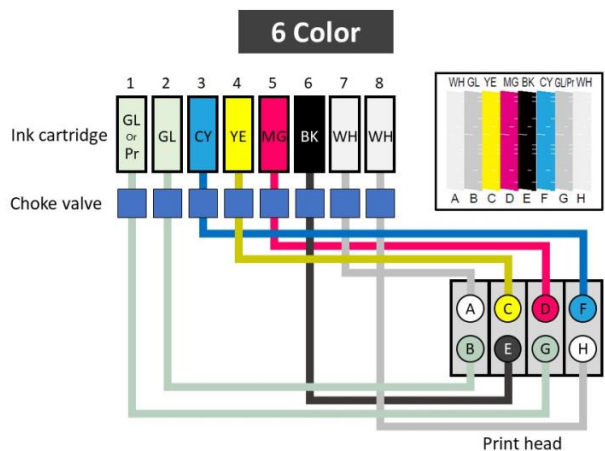
Step 6 / 41

Detail1: □color



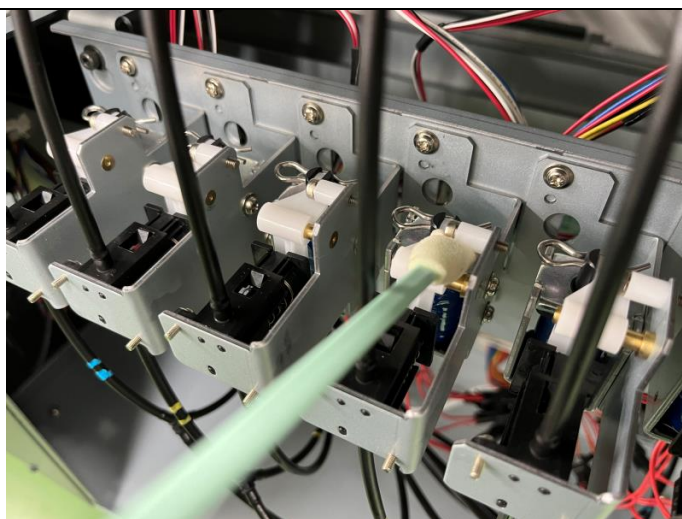
Step 7 / 41

Detail2: □color



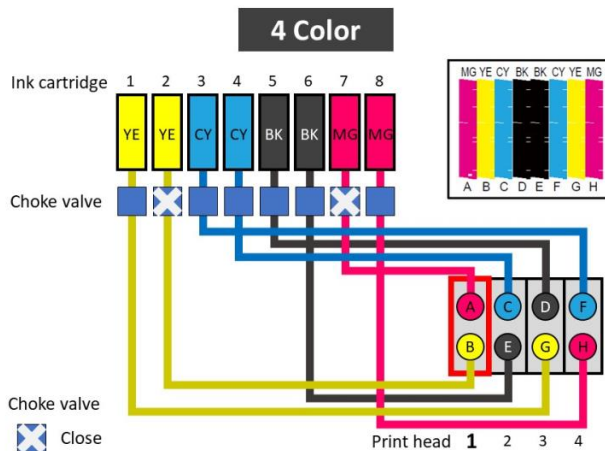
Step 8 / 41

Put a cleaning stick or other padding in the choke valve of the color of the damper you are going to replace, and then close the choke valve. Close all the choke valves in the ink line of the color of the damper you are going to replace.



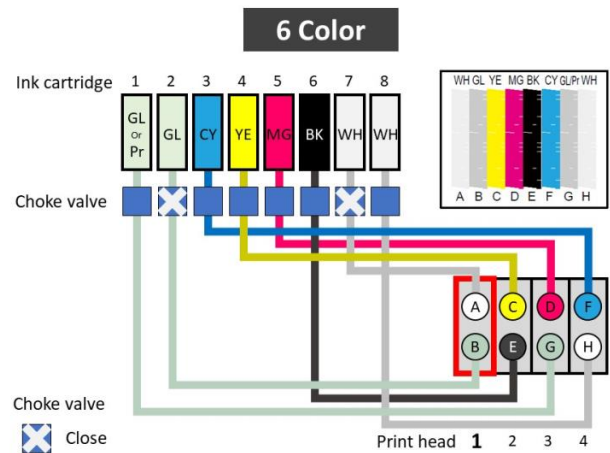
Step 9 / 41

Detail1: □Color When replacing damper 1



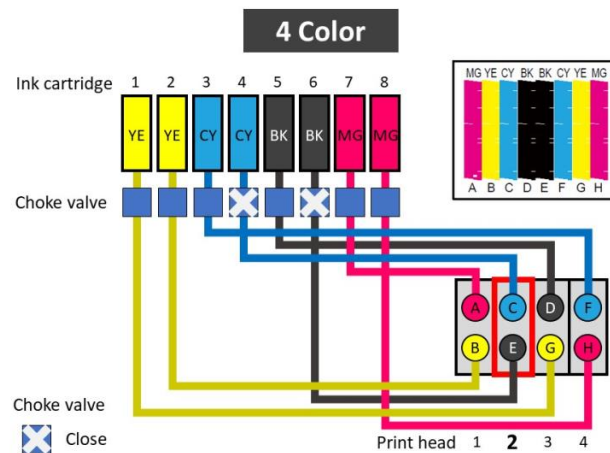
Step 10 / 41

Detail2: □Color When replacing damper 1



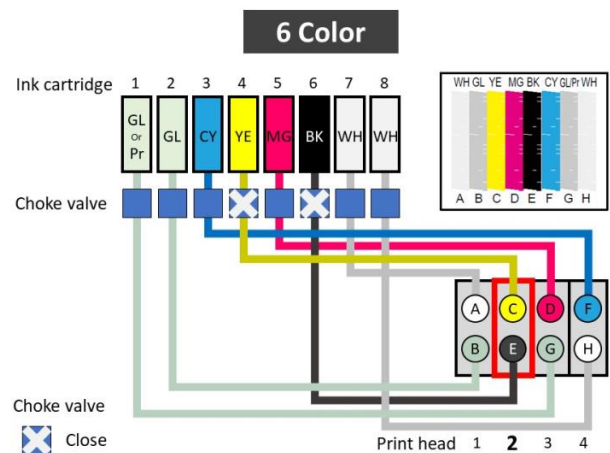
Step 11 / 41

Detail3: □Color When replacing damper 2



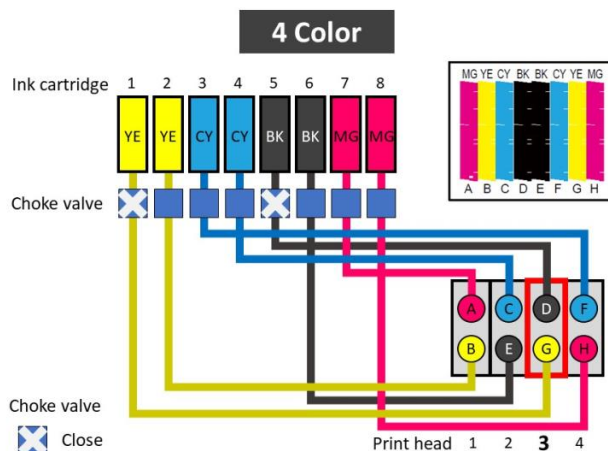
Step 12 / 41

Detail4: □Color When replacing damper 2



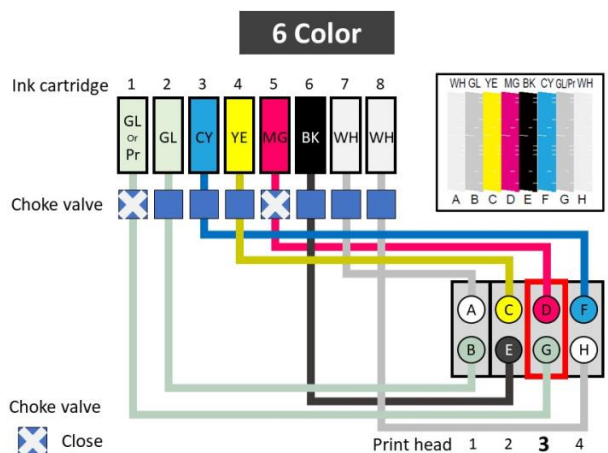
Step 13 / 41

Detail5: 4Color When replacing damper 3



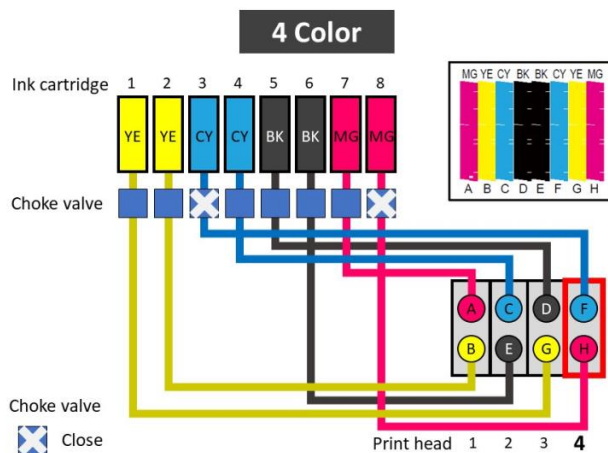
Step 14 / 41

Detail6: 6Color When replacing damper 3



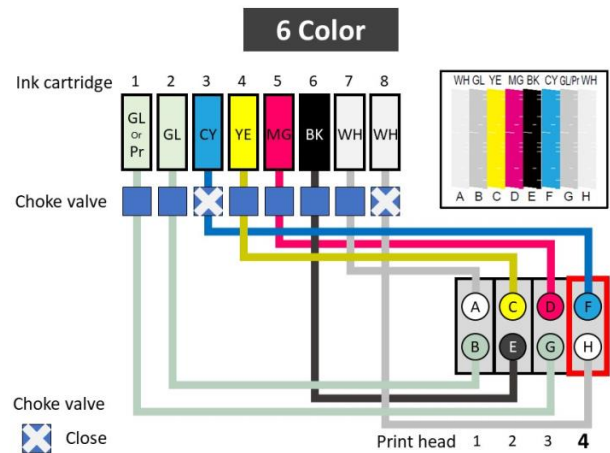
Step 15 / 41

Detail7: 4Color When replacing damper 4



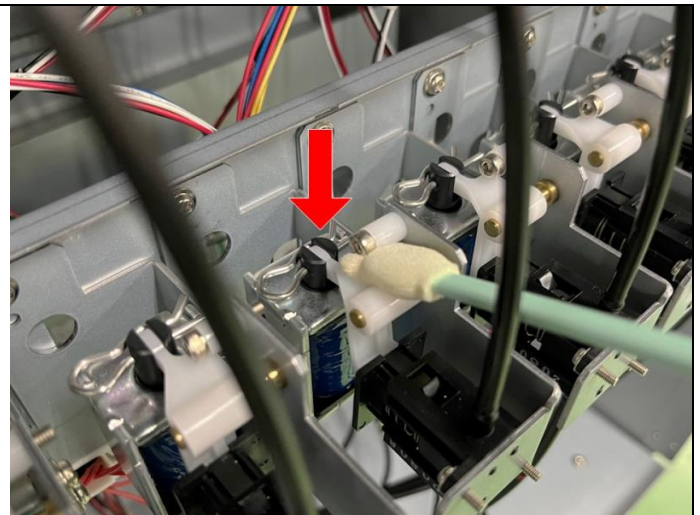
Step 16 / 41

Detail8: □Color When replacing damper 4



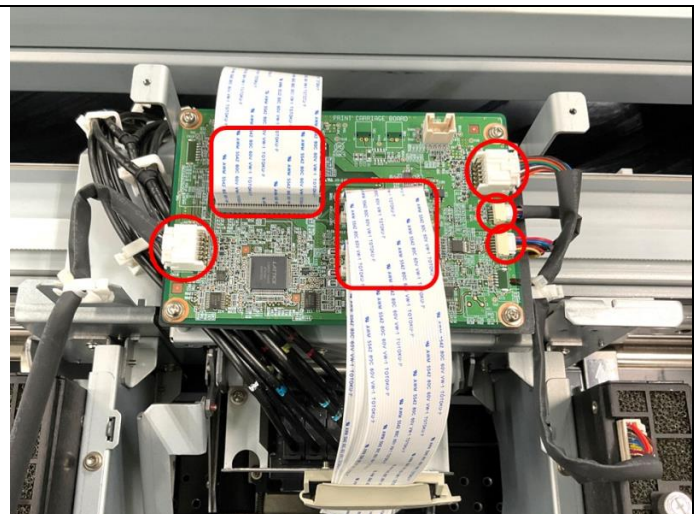
Step 17 / 41

Confirm that the black protrusion indicated with the red arrow will not move down even if you press it with your hand when the choke valves is closed.



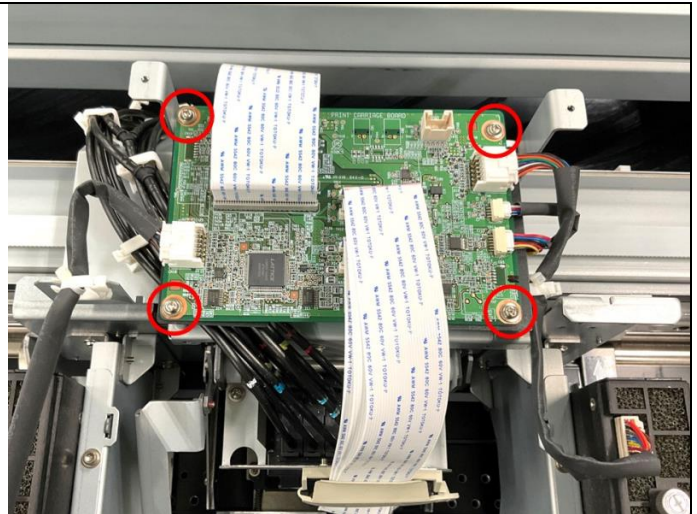
Step 18 / 41

Unplug the connectors and the ribbon cables.



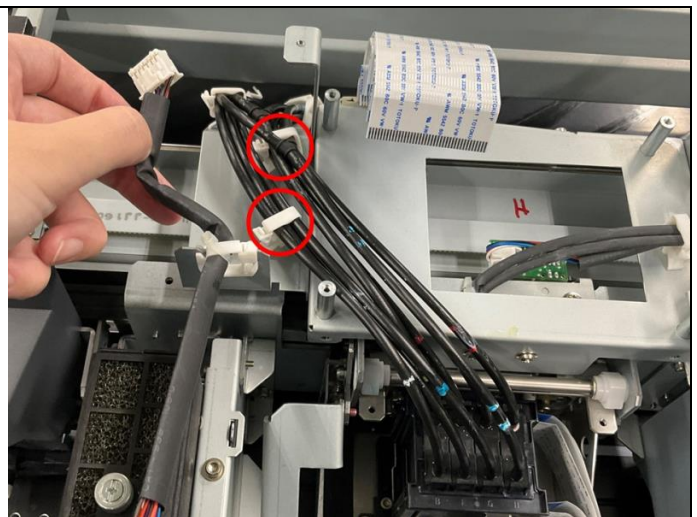
Step 19 / 41

Remove the print carriage board.



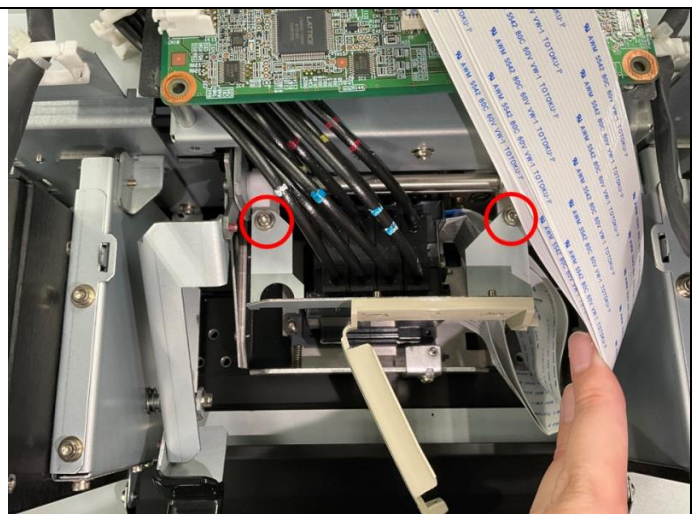
Step 20 / 41

Open the cable saddles.



Step 21 / 41

Remove the ribbon cable stay.



Step 22 / 41

Remove the light shielding cover.



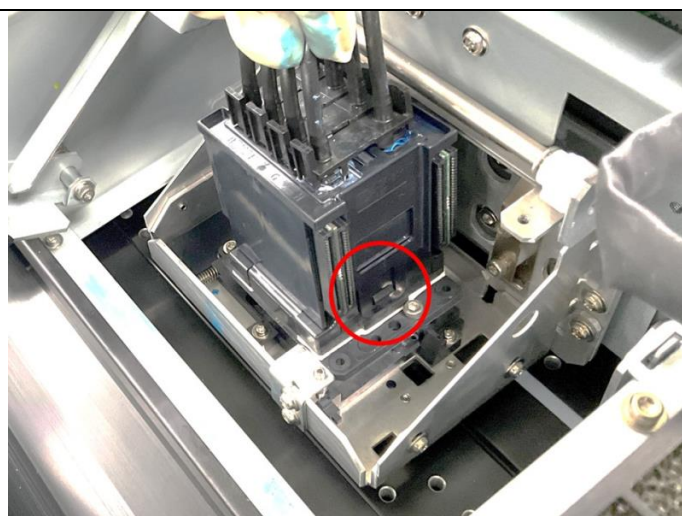
Step 23 / 41

Do not touch the valve of the damper. If you touch the valve, ink leaks from the damper. Print head gets damaged if ink is adhered on the head board. To prevent ink from leaking or spattering, use a dry cloth when removing the damper.



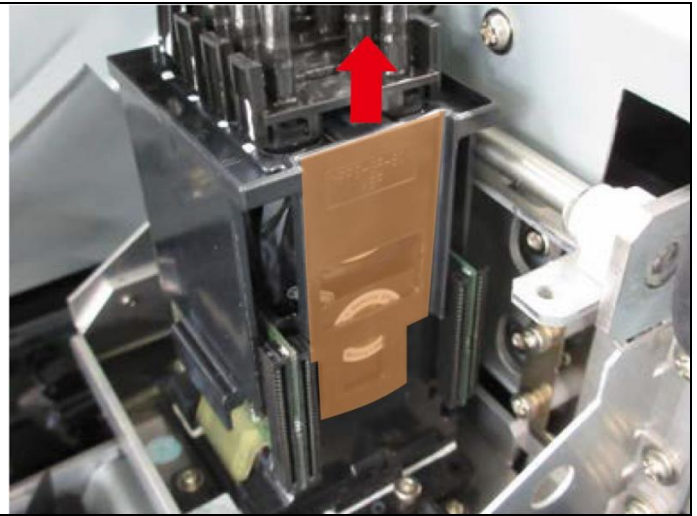
Step 24 / 41

Unhook the hooks of both sides of the print head cover with tweezers, etc. to remove the damper from the print head.



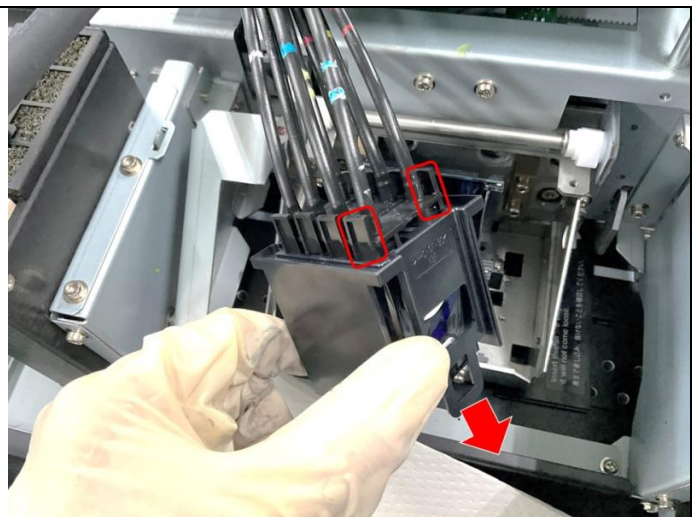
Step 25 / 41

Widen the hook part of the print head cover, and lift the damper, tubes and print head cover together slowly.



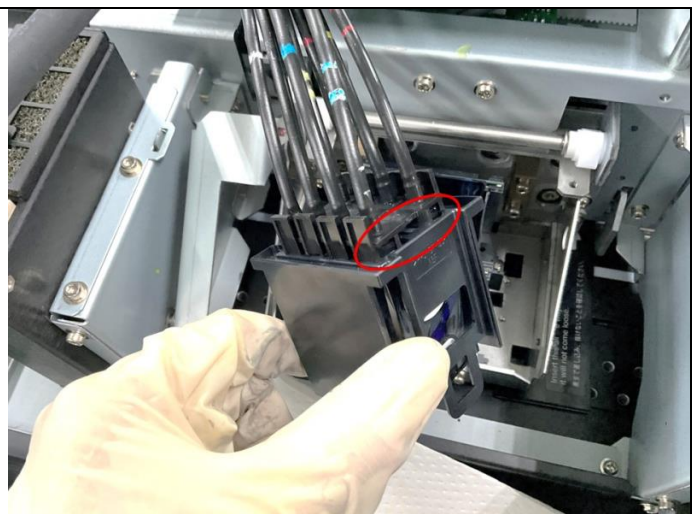
Step 26 / 41

Pick both ends of the damper joint on the upper part of the damper and remove the damper. When you replace more than one dampers, replace one damper at a time.



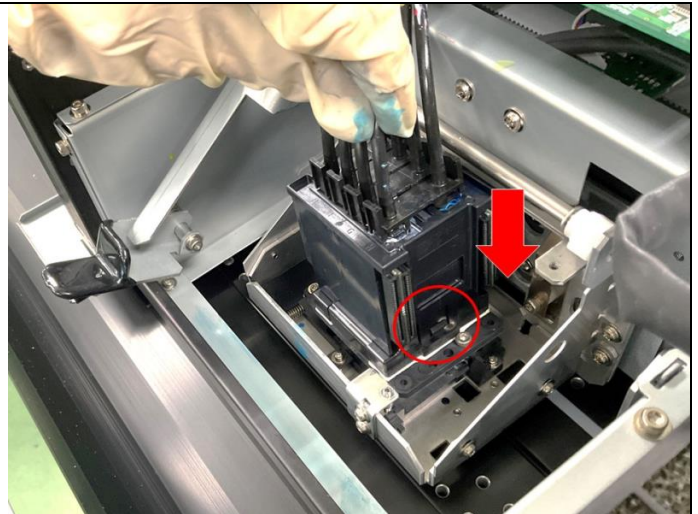
Step 27 / 41

Support the lower part of the damper, and attach the damper joint to the damper. Confirm that the damper joint is not detached by pulling it upward. Attaching the damper joint becomes easier by holding both ends of the damper joint and widen it.



Step 28 / 41

Press the print head cover to the print head until the hook clicks into place.



Step 29 / 41

Remove all the cleaning sticks or other padding inserted in the choke valves in preparation step.



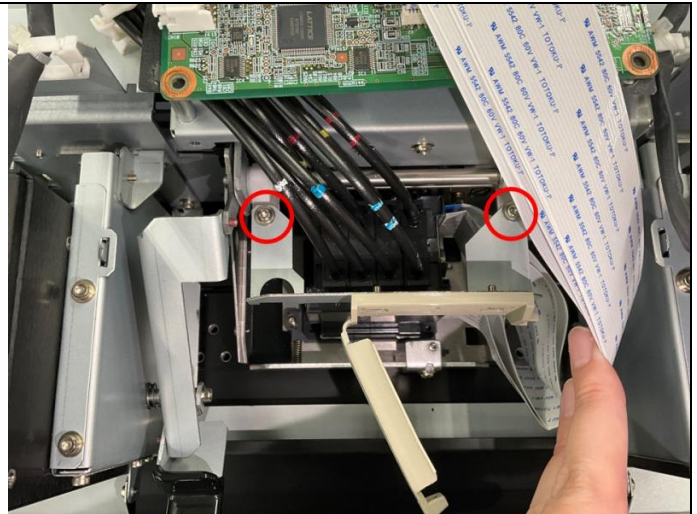
Step 30 / 41

Attach the light shielding cover.



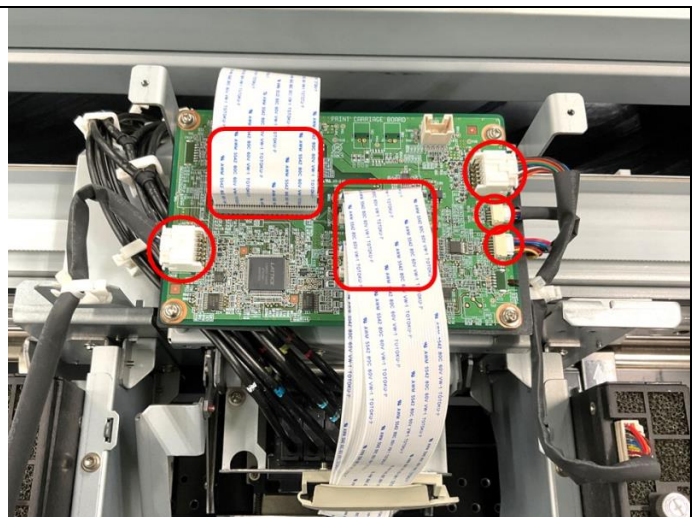
Step 31 / 41

Remove the ribbon cable stay.



Step 32 / 41

Close the cable saddles, and attach the print carriage board. Then attach the ribbon cables and connectors.



Step 33 / 41

Detail1: Align the positions of the screw holes of black cover under the print carriage board with the holes of the print carriage board, and then tighten the screws.



Step 34 / 41

Attach the cover, and turn on the power switch. Then connect Peck2 to the machine, and enter the service mode.



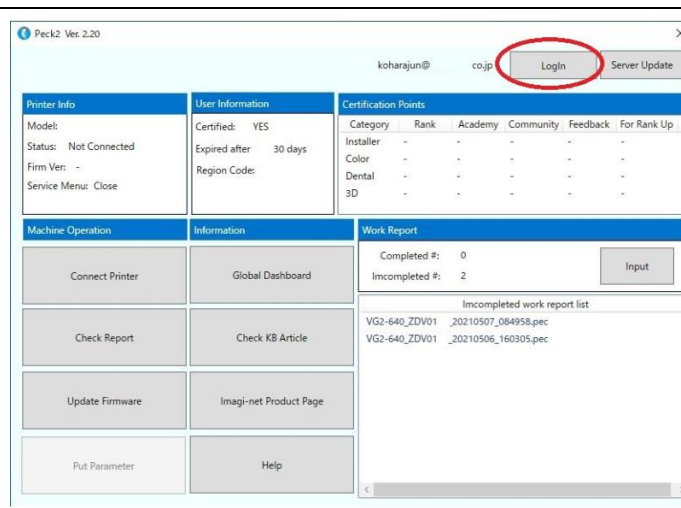
Step 35 / 41

Detail1: Start Peck2.



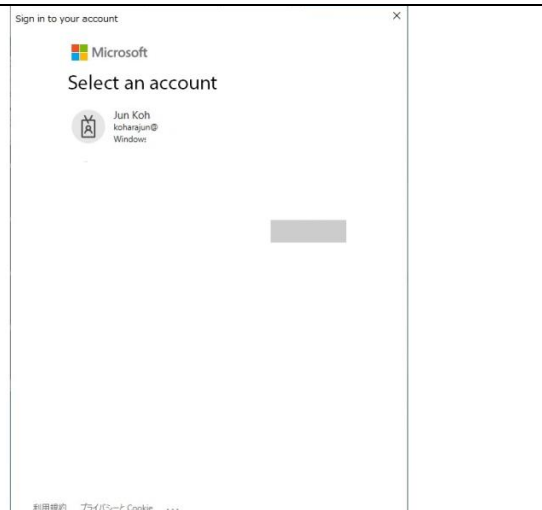
Step 36 / 41

Detail2: Click the [Login] button.



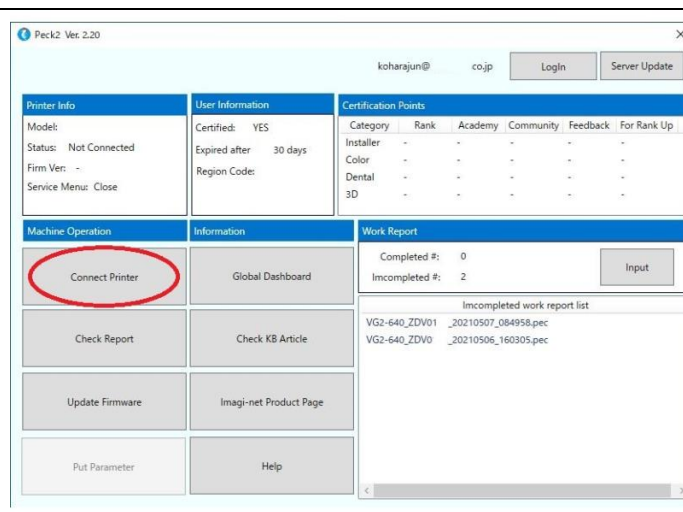
Step 37 / 41

Detail3: Log in with Imagi-net ID.



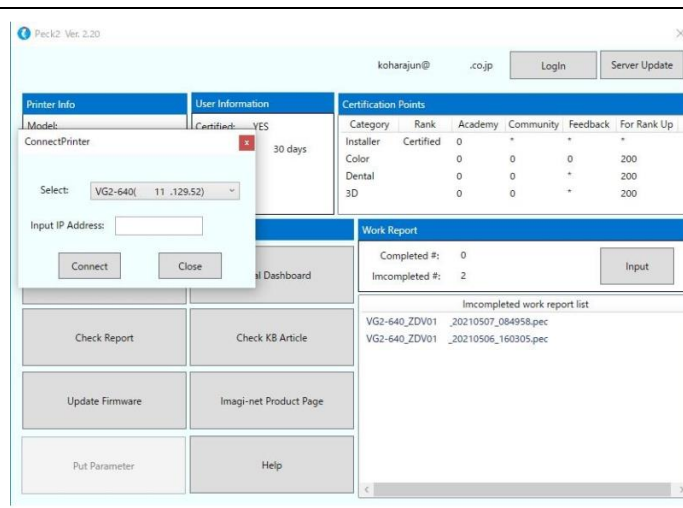
Step 38 / 41

Detail4: Click the [Connect Printer] button.



Step 39 / 41

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



Step 40 / 41

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

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

Printer Info Model: VG2-640_ZDV01 Status: UnSetup Firm Ver: 2.00 Service Menu: Open	User Information Certified: YES Expired after: 30 days	Certification Points <table><thead><tr><th>Category</th><th>Rank</th><th>Academy</th><th>Community</th><th>Feedback</th><th>For Rank Up</th></tr></thead><tbody><tr><td>Installer</td><td>Certified</td><td>0</td><td>*</td><td>*</td><td>*</td></tr><tr><td>Color</td><td></td><td>0</td><td>0</td><td>0</td><td>200</td></tr><tr><td>Dental</td><td></td><td>0</td><td>0</td><td>*</td><td>200</td></tr><tr><td>3D</td><td></td><td>0</td><td>0</td><td>*</td><td>200</td></tr></tbody></table>	Category	Rank	Academy	Community	Feedback	For Rank Up	Installer	Certified	0	*	*	*	Color		0	0	0	200	Dental		0	0	*	200	3D		0	0	*	200
Category	Rank	Academy	Community	Feedback	For Rank Up																											
Installer	Certified	0	*	*	*																											
Color		0	0	0	200																											
Dental		0	0	*	200																											
3D		0	0	*	200																											
Machine Operation Connect Printer Check Report Update Firmware Put Parameter	Information Global Dashboard Check KB Article Imagi-net Product Page Help	Work Report Completed #: 0 Incomplete #: 2 Input Incomplete work report list VG2-640_ZDV01 _20210507_084958.pec VG2-640_ZDV01 _20210506_160305.pec																														

Step 41 / 41

Perform [SERVICE MENU] > [CHOKE CL.] once.

SERVICE MENU	↕
CHOKE CL.	↙

[ENTER]

MG-640300 Cap Top Replacement

MG-640300 Cap Top 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



ラジオペンチ
Needle-nose pliers



Step 2 / 3

Typical work time

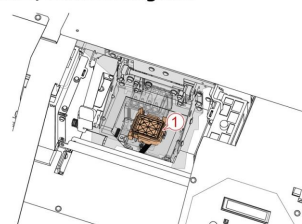
作業時間/Typical work time

作業内容/Contents of work	時間/Time
キャップトップ交換 Cap top replacement	10 min.

Step 3 / 3

Cap top

概要図/Outline Diagram

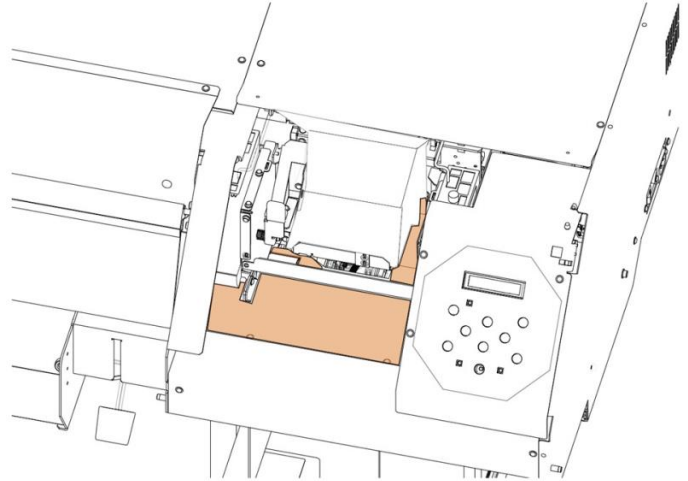


MG-640300 Cap Top Replacement

MG-640300 Cap Top Replacement Procedure

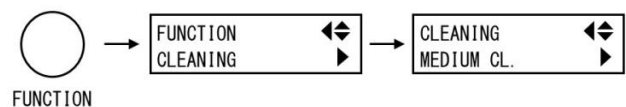
Step 1 / 12

Cover that needs to be removed



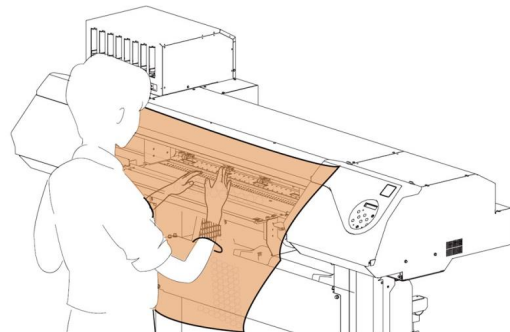
Step 2 / 12

To prevent ink from hardening, finish this procedure in 20 minutes or less. Perform medium cleaning on all print heads if 20 minutes passes.



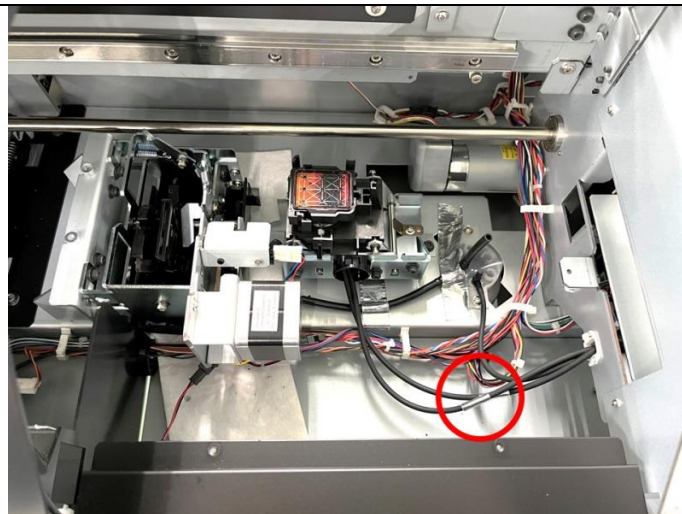
Step 3 / 12

Always use the UV protection sheet during this work, or ink will harden and clog inside the ink line.



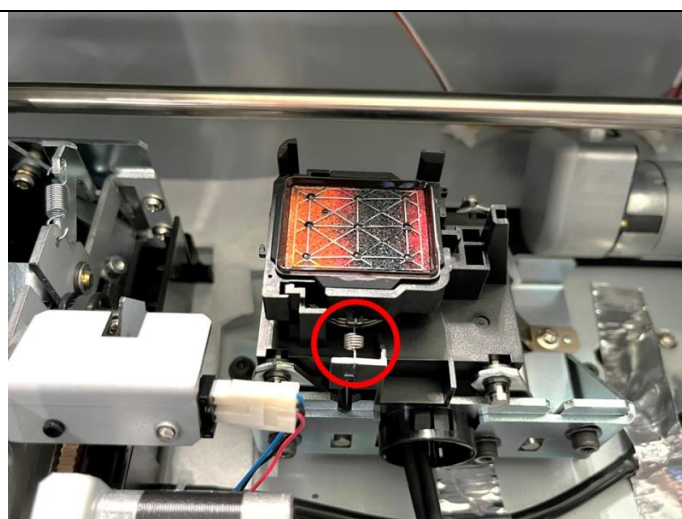
Step 4 / 12

Remove the light shielding tapes on the adapter that connects the cap top and pump, and pull out the tube of the cap top side.



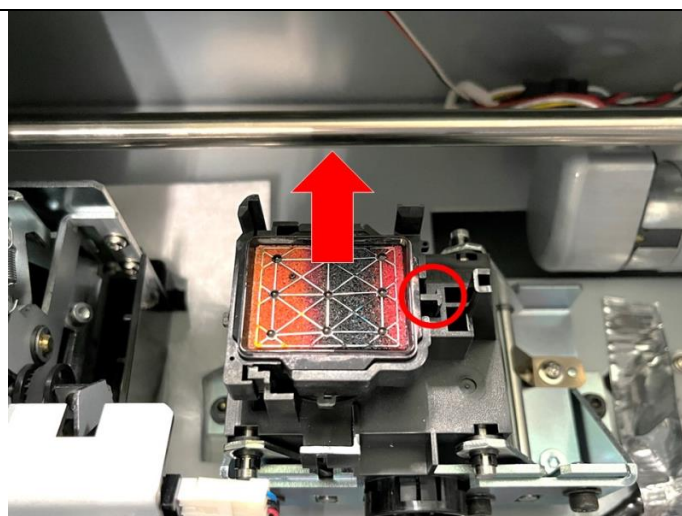
Step 5 / 12

Remove the spring.



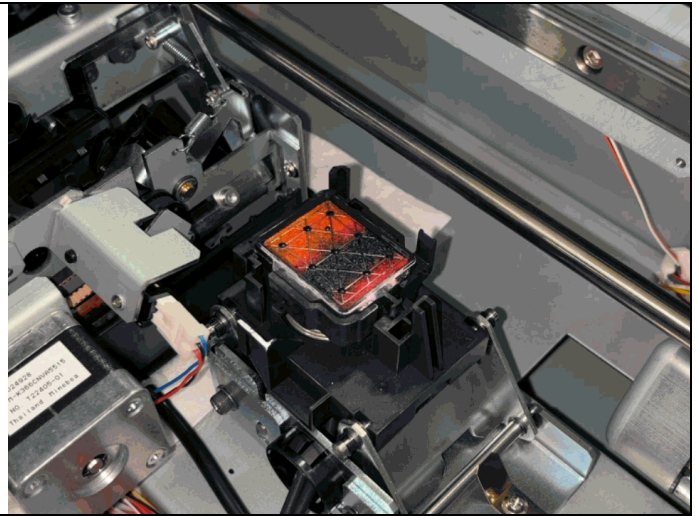
Step 6 / 12

Remove the cap top by pressing the T-shaped hook downward and pull up the cap top together with the tube.



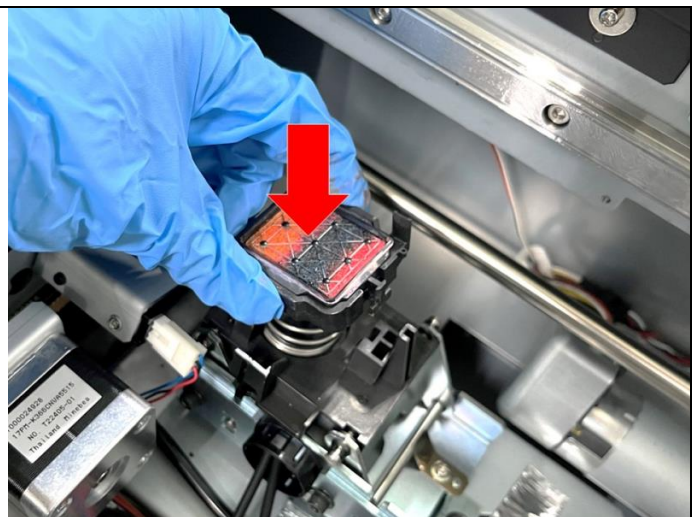
Step 7 / 12

Detail1: Reference Video



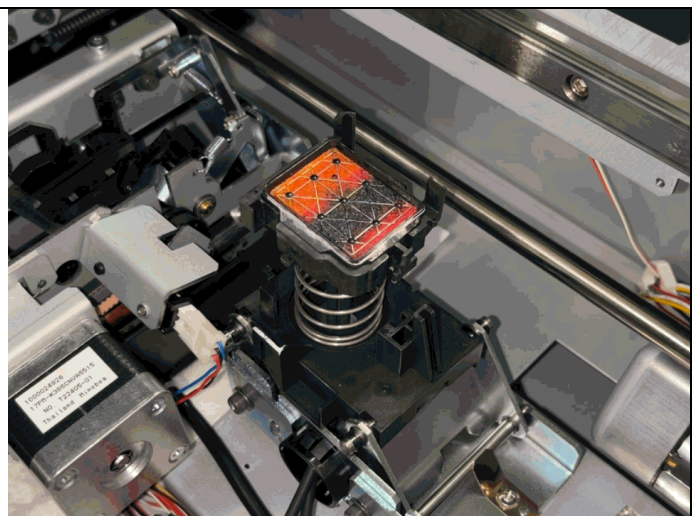
Step 8 / 12

Attach a new cap top by hooking it on the right T-shaped hook. Fix the cap top so that the spring fits the groove on the bottom of the cap top.



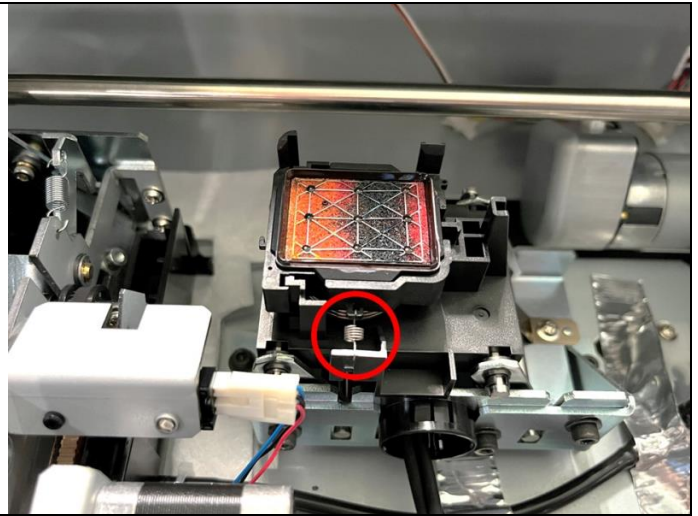
Step 9 / 12

Detail1: Reference Video



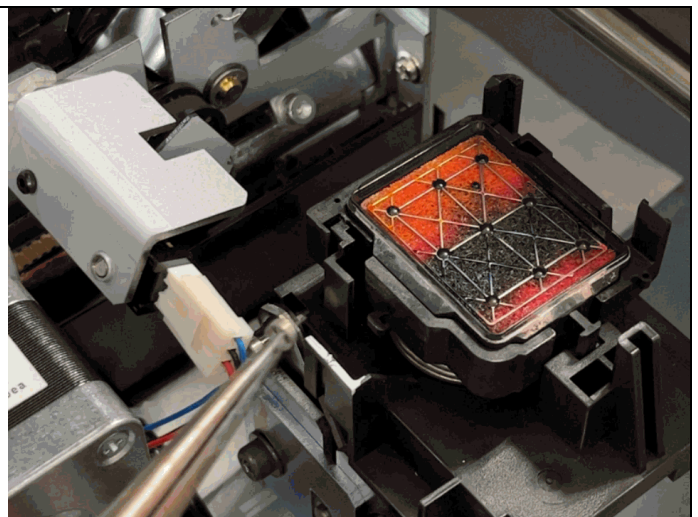
Step 10 / 12

Hook the spring.



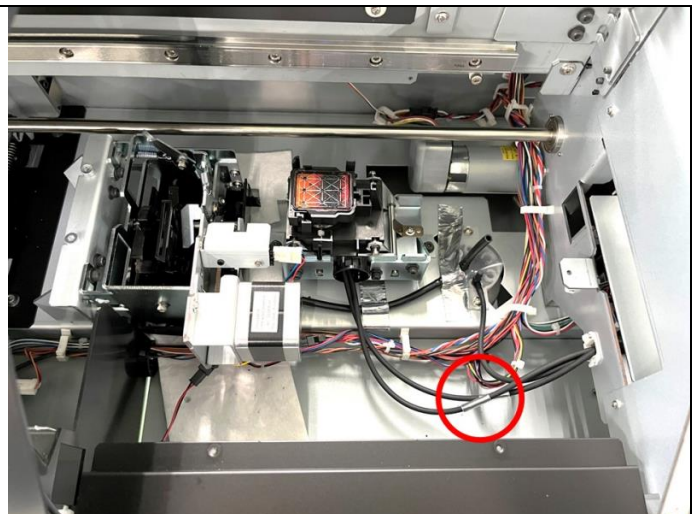
Step 11 / 12

Detail1: Reference Video



Step 12 / 12

Insert the cap top tube into the adapter,
and cover the adapter with light
shielding tape.



MG-640300 Main Board Replacement

MG-640300 Main Board Replacement Information

Step 1 / 3

<Work after replacement> If the parameters can be transferred:

-Firmware installation -System parameter initialization -Temporary IP address -Put Parameters -Date and time setting -Sensor check

If the parameter cannot be transferred:

-Firmware installation -System parameter initialization -Temporary IP address -IP Address -Date and time setting -Head rank input -Serial number input -Ink type setting -Sensor check -Limit & cutter down position initialization -Flushing position adjustment -Linear encoder setup -Print head alignment (M-GAP DEFAULT only) -Feed calibration -Crop mark sensor adjustment -Crop cut adjustment -Print cut position adjustment

Translated with

www.DeepL.com/Translator (free version)



Step 2 / 3

Necessary tools

一般ツール/General Tool

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



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

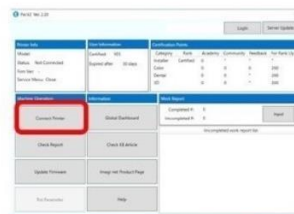
MG-640300 Main Board Replacement

MG-640300 Main Board Replacement

Procedure

Step 1 / 49

Connect Peck2 with the machine to enter the service mode.



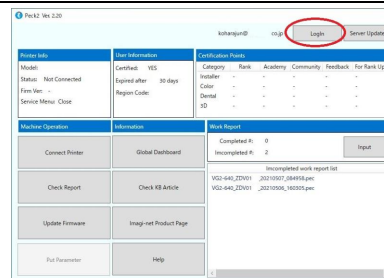
Step 2 / 49

Detail1: Start Peck2.



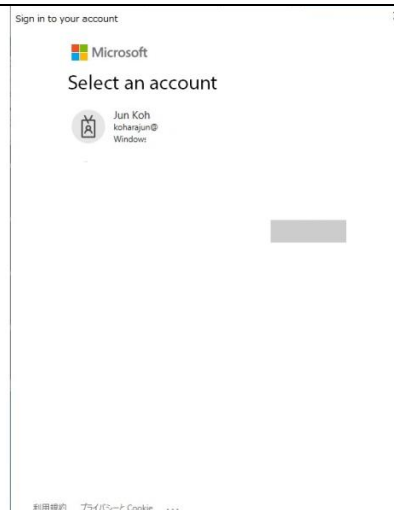
Step 3 / 49

Detail2: Click the [Login] button.



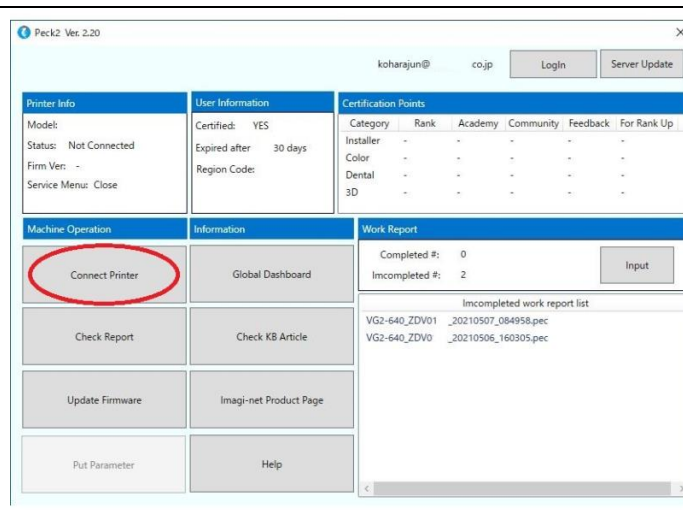
Step 4 / 49

Detail3: Log in with Imagi-net ID.



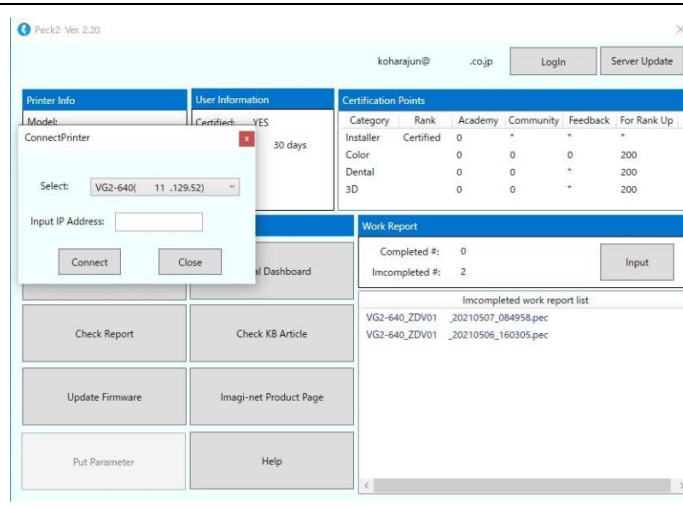
Step 5 / 49

Detail4: Click the [Connect Printer] button.



Step 6 / 49

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



Step 7 / 49

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

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

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

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

Step 8 / 49

Detail7: If the printer can be connected, parameters can be acquired automatically. Click the [Put Parameter] button to check the file.

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

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

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

Step 9 / 49

Detail8: Check the file.

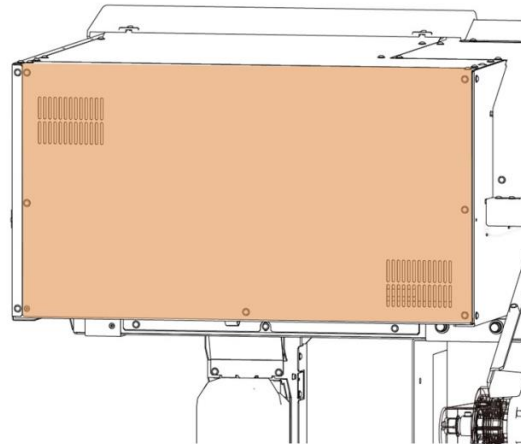
\\原 順 > AppData > Roaming > Peck2 > DeviceInfo > Parameter

Parameterの検索

VG2-640_ZDV010
4_20210507_1010
19.para

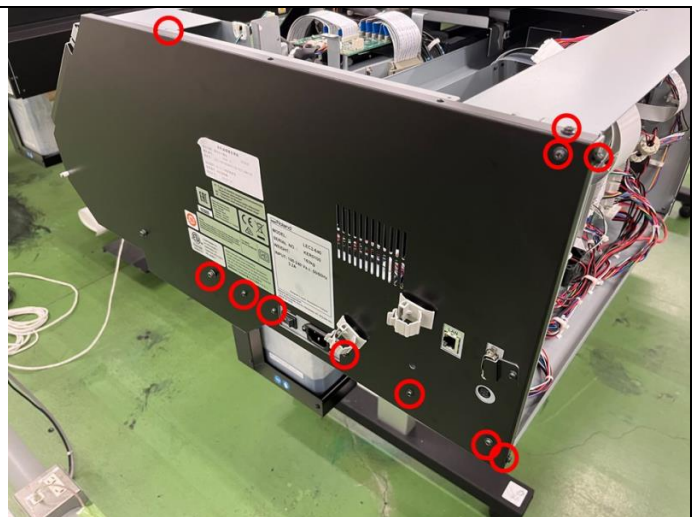
Step 10 / 49

Turn off the main power switch, and
remove the cover.



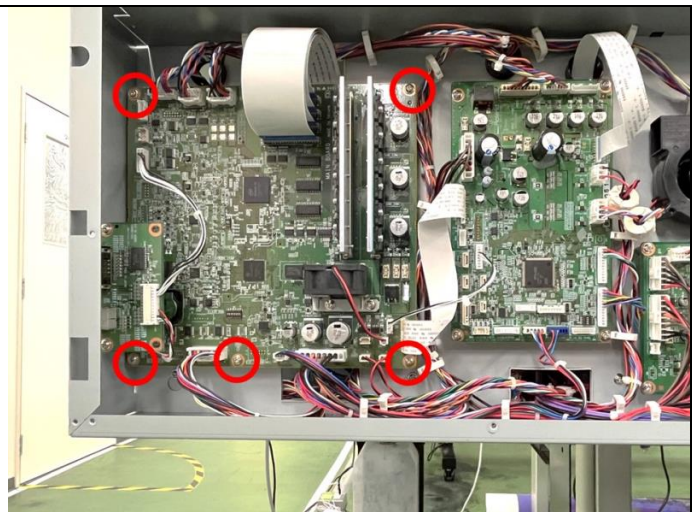
Step 11 / 49

Remove screws from the side cover.



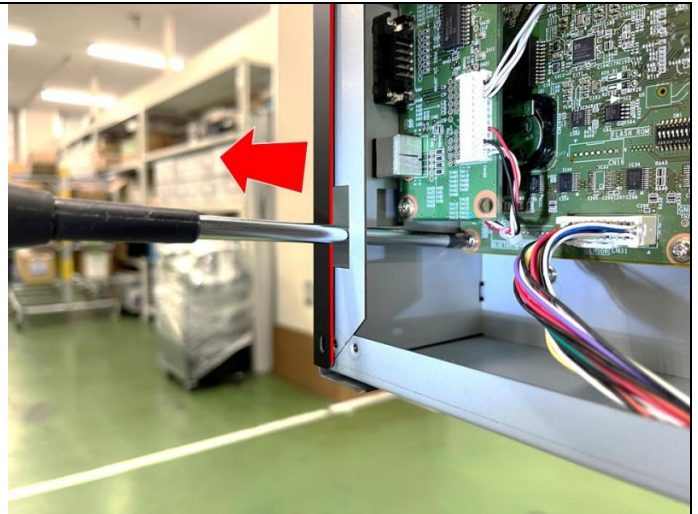
Step 12 / 49

Remove the main board.



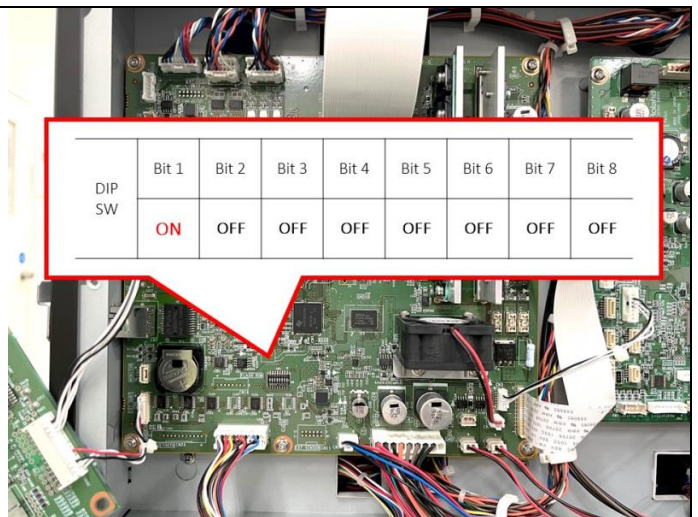
Step 13 / 49

Detail1: Pull the side cover to the left so that the screwdriver can be inserted to the gap when removing the screws close to the side cover.



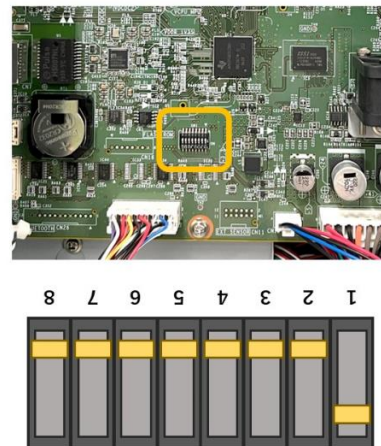
Step 14 / 49

Change DIP switch of the new main board as shown in the table.



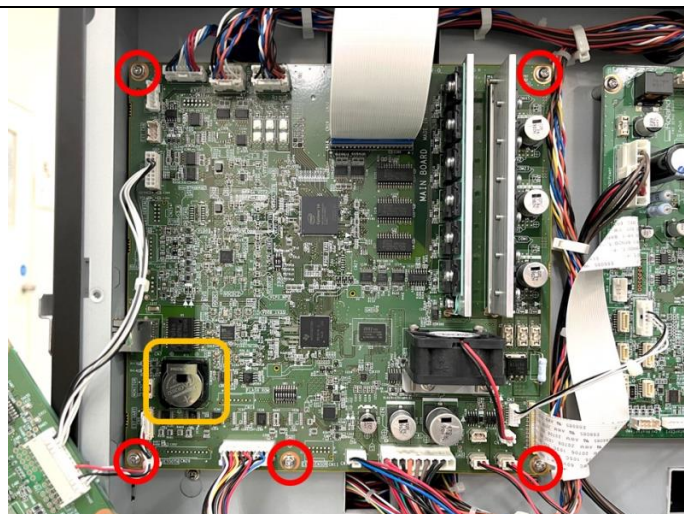
Step 15 / 49

Detail1: Change DIP switch of the new main board as shown in the figure.



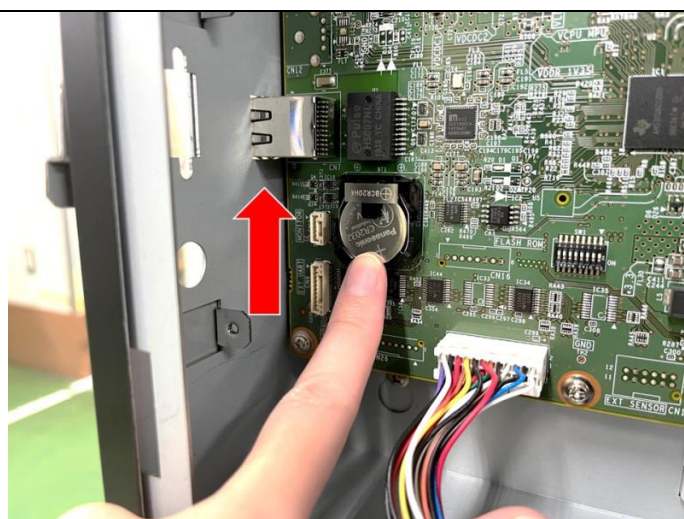
Step 16 / 49

Replace the main board with a new one.
Attach the removed battery to the new main board. Make sure to attach the removed battery to the new main board.



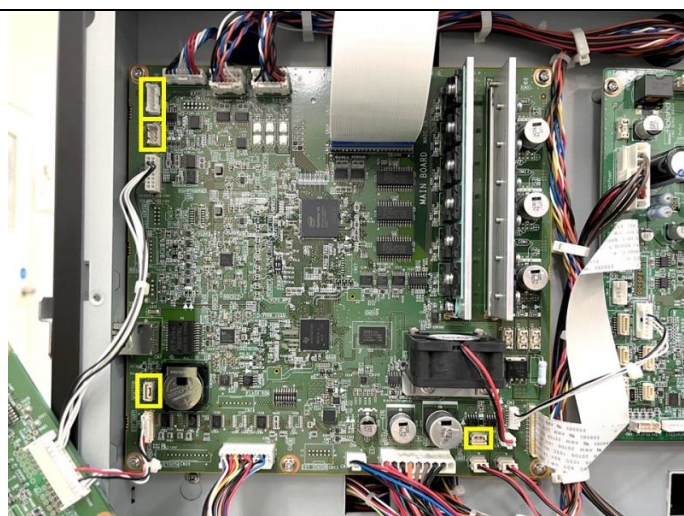
Step 17 / 49

Detail1: Remove the battery on the main board by pushing it back and tilting upward.



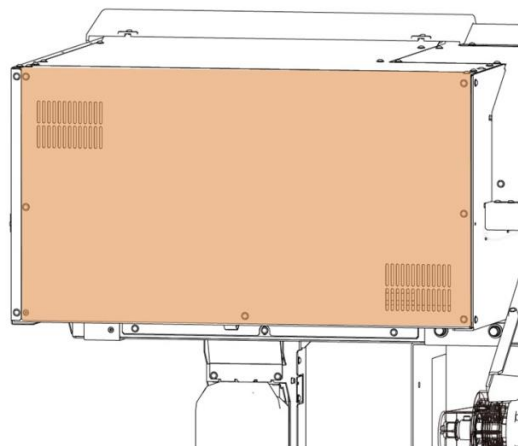
Step 18 / 49

There are no connectors to plug into the places marked in yellow.



Step 19 / 49

Attach the covers and perform the following adjustments.



Step 20 / 49

Perform "Firmware installation".



次の手順

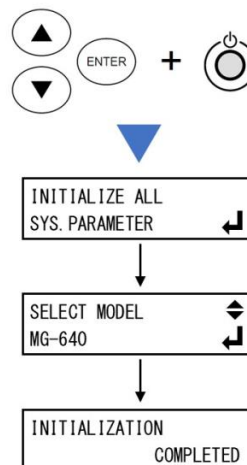
ファームウェアインストール

Next Step

Firmware Installation

Step 21 / 49

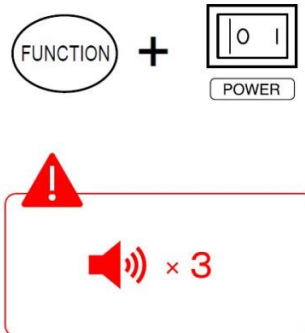
Perform "System parameter initialization".



Step 22 / 49

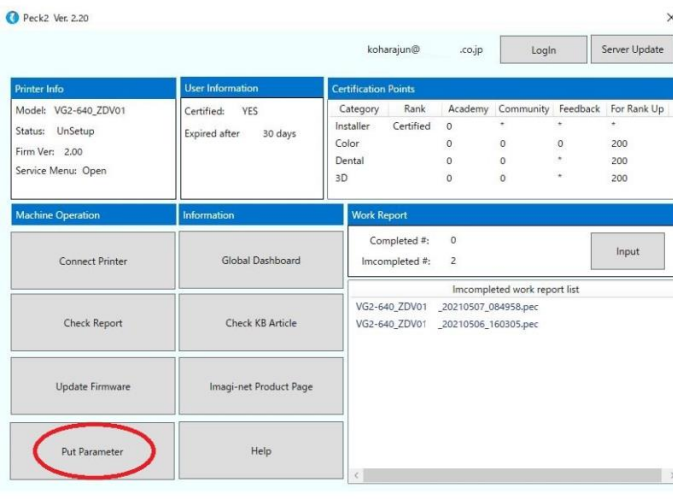
Perform "Temporary IP address setting".

Turn on the main power switch while pressing the [FUNCTION] key. Press and hold the [FUNCTION] key for about 10 seconds until BEEP sound rings one time. If the BEEP sound rings three times, try it again. The temporary IP address [192.168.1.99]. is automatically set.



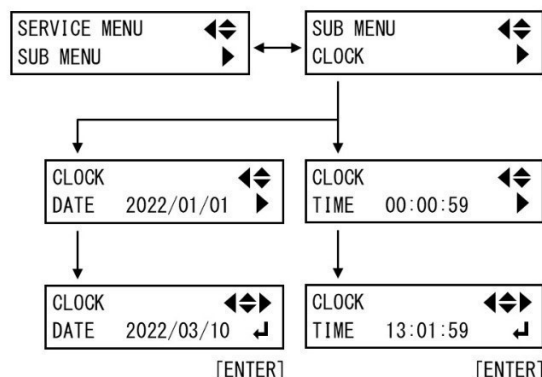
Step 23 / 49

Perform "Put parameters".



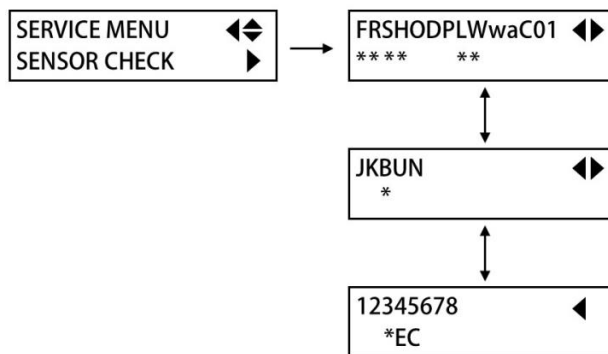
Step 24 / 49

Setting time and date. Set [DATE] in the order of [Year/Month/Day].



Step 25 / 49

Perform sensor check. See service note for sensor specifications.



Step 26 / 49

Perform "Firmware installation".



次の手順

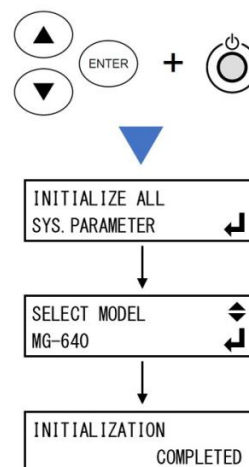
ファームウェアインストール

Next Step

Firmware Installation

Step 27 / 49

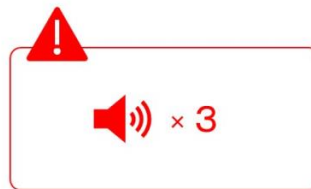
Perform "System parameter initialization".



Step 28 / 49

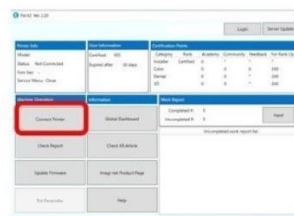
Perform "Temporary IP address setting".

Turn on the main power switch while pressing the [FUNCTION] key. Press and hold the [FUNCTION] key for about 10 seconds until BEEP sound rings one time. If the BEEP sound rings three times, try it again. The temporary IP address [192.168.1.99]. is automatically set.



Step 29 / 49

Connect Peck2 with the machine to enter the service mode.



Step 30 / 49

Detail1: Start Peck2.



Step 31 / 49

Detail2: Click the [Login] button.

Peck2 Ver. 2.20

koharajun@ co.jp Login Server Update

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

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

Step 32 / 49

Detail3: Log in with Imagi-net ID.

Sign in to your account

Microsoft

Select an account

Jun Koh
koharajun@
Windows

利用規約 プライバシーとCookie

Step 33 / 49

Detail4: Click the [Connect Printer] button.

Peck2 Ver. 2.20

koharajun@ co.jp Login Server Update

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

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

Step 34 / 49

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

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
ConnectPrinter			30 days	Installer	Certified	0	*	*	*
Select:	VG2-640(11.129.52)			Color		0	0	0	200
				Dental		0	0	*	200
				3D		0	0	*	200

Input IP Address:

Connect Close

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

Step 35 / 49

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

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

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

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

Step 36 / 49

Setting "IP Address". Start the machine with the service mode and set IP address in the user menu.



次の手順

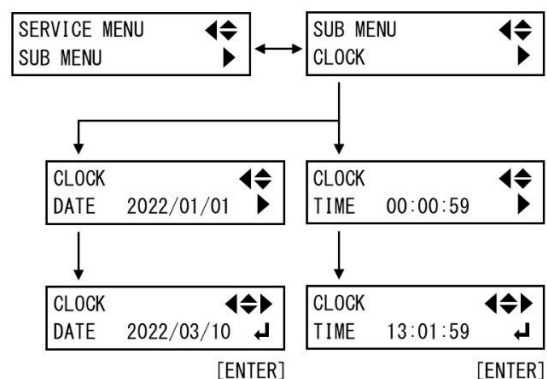
IP Address 設定

Next Step

IP address settings

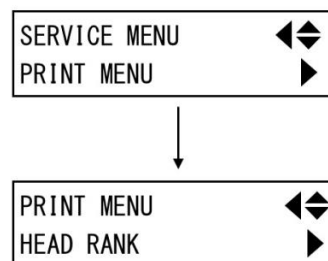
Step 37 / 49

Setting time and date. Set [DATE] in the order of [Year/Month/Day].



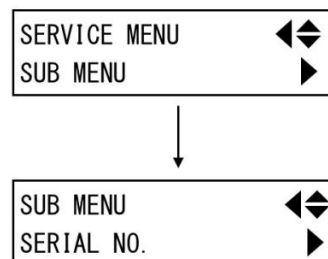
Step 38 / 49

Setting head rank. Set from [SERVICE MENU] > [PRINT MENU] > [HEAD RANK].



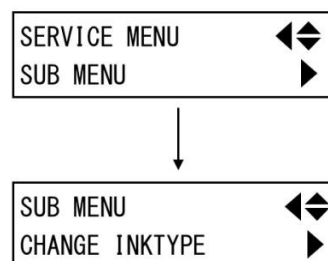
Step 39 / 49

Input Serial number input. Set from [SUB MENU] > [SERIAL NO.].



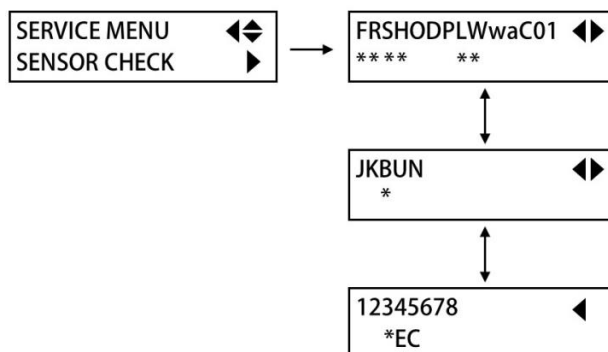
Step 40 / 49

Setting Ink type. Set from [SUB MENU] > [CHANGE INKTYPE].



Step 41 / 49

Perform sensor check. See service note for sensor specifications.



Step 42 / 49

Perform "Limit Position & Cut Down Position Initialization".



次の手順

リミット&カッターダウン位置設定

Next Step

Limit Position & Cut Down Position Initialization

Step 43 / 49

Perform "Flushing Position Adjustment".



次の手順

フラッシング位置調整

Next Step

Flushing Position Adjustment

Step 44 / 49

Perform "Linear Encoder Setup".



次の手順

リニアエンコーダー位置設定

Next Step

Linear Encoder Setup

Step 45 / 49

Perform "Print Head Alignment". Only
M-GAP DEFAULT adjustments is
required.



次の手順

ヘッド位置調整

Next Step

Print Head Alignment

Step 46 / 49

Perform "Feed calibration".



次の手順

距離補正（メディア送り方向）

Next Step

Feed calibration

Step 47 / 49

Perform "Crop mark sensor adjustment".



次の手順

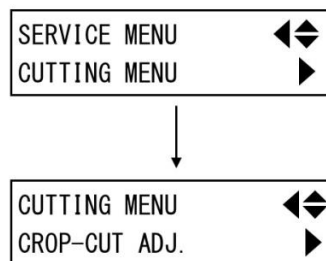
クロップマークセンサー調整

Next Step

Crop mark sensor adjustment

Step 48 / 49

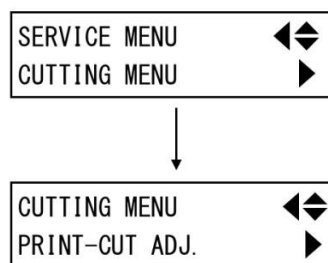
Perform "Crop-cut adjustment". Adjust the crop cut position by selecting [CUTTING MENU] > [CROP-CUT ADJ.].



Step 49 / 49

Perform "Print/cut position adjustment".

Adjust the print/cut position by selecting
[CUTTING MENU] > [PRINT-CUT ADJ.].



MG-640300 Battery Replacement

MG-640300 Battery Replacement Information

Step 1 / 4

<Parts to be replaced> Lithium battery
CR2032



Step 2 / 4

Necessary tools

一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
六角レンチ3.0mm 3.0 mm hexagonal wrench	
ラジオペンチ もしくは M2.5ナットドライバー Needle-nose pliers or M2.5 Nut driver	

Step 3 / 4

Typical work time

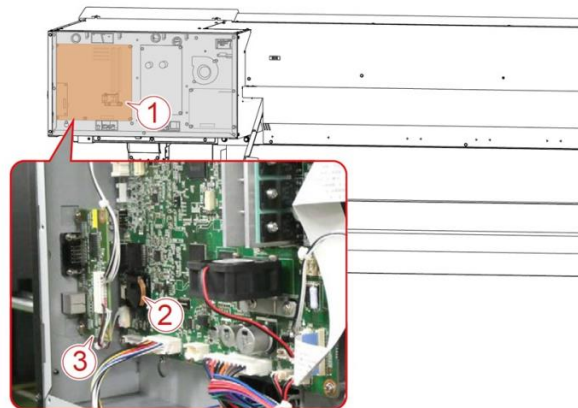
作業時間/Typical work time

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

Step 4 / 4

1. Main board, 2. Battery, 3. External interface board

概要図/Outline Diagram



MG-640300 Battery Replacement

MG-640300 Battery Replacement Procedure

Step 1 / 19

Danger of explosion if the lithium battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacture. Dispose of used batteries according to the manufacturer's instructions.
Lithium battery: CR2032



Step 2 / 19

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



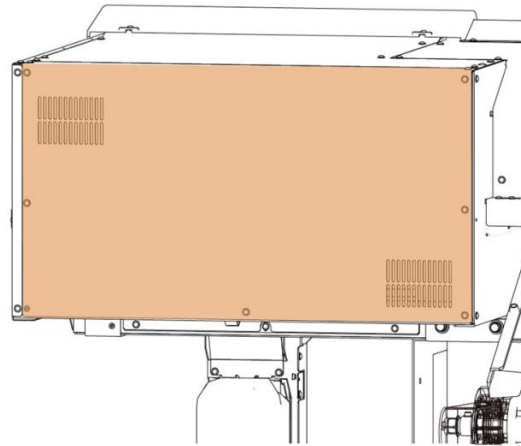
Step 3 / 19

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



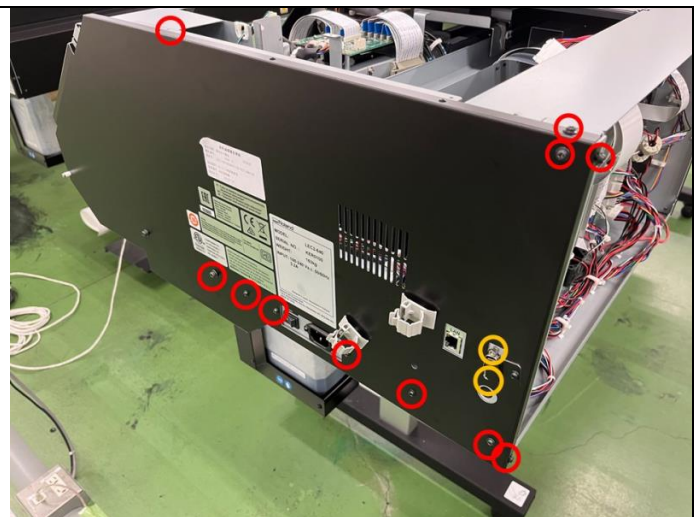
Step 4 / 19

Remove the cover.



Step 5 / 19

Remove screws and hexagonal nuts from the side board.



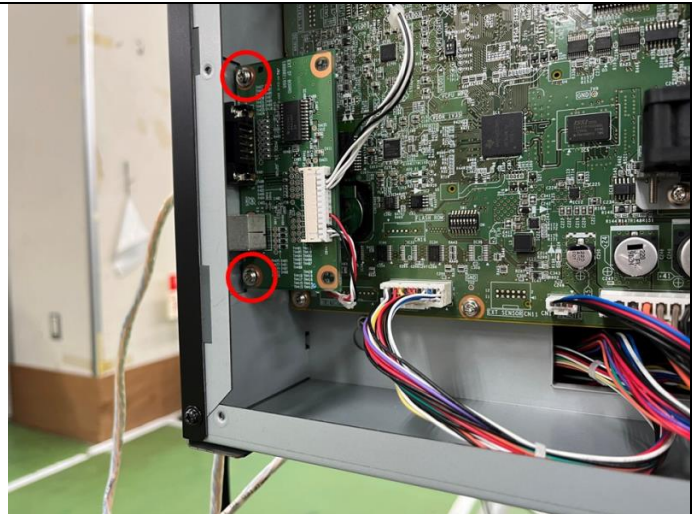
Step 6 / 19

Detail1: Remove the hexagonal nut with needle-nose pliers or similar tools.



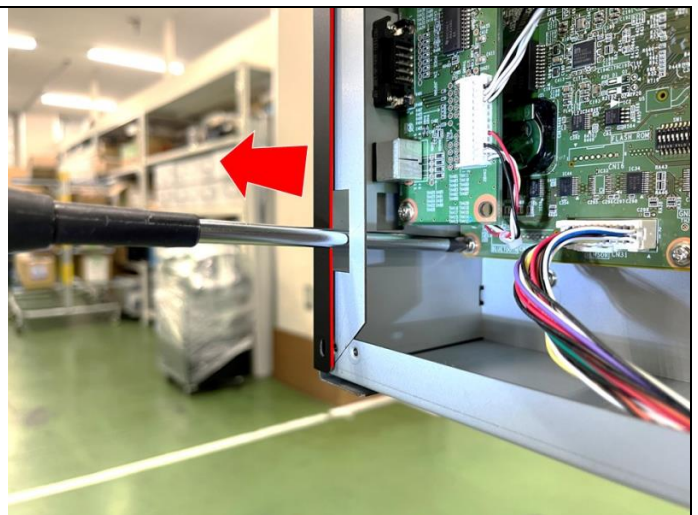
Step 7 / 19

Remove the external interface board.



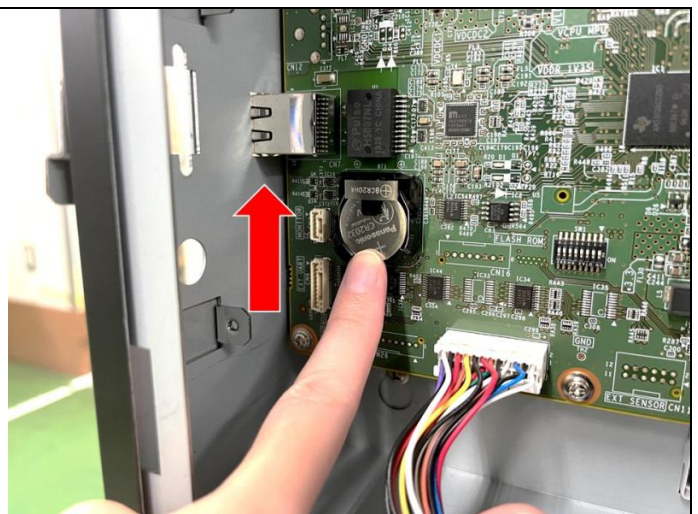
Step 8 / 19

Detail1: Pull the side cover to the left so that the screwdriver can be inserted to the gap when removing the screws.



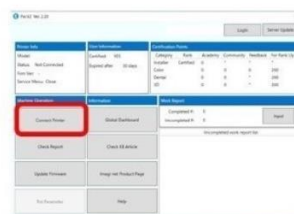
Step 9 / 19

Remove the battery on the main board by pushing it back and tilting upward. Replace the battery with a new one.



Step 10 / 19

Connect Peck2 with the machine to enter the service mode.



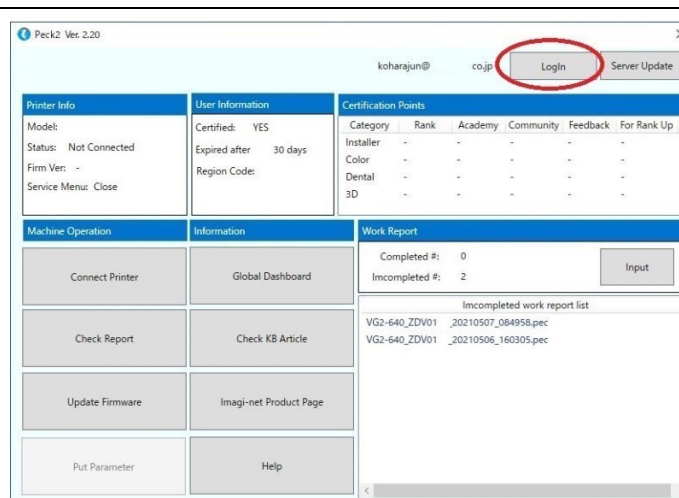
Step 11 / 19

Detail1: Start Peck2.



Step 12 / 19

Detail2: Click the [Login] button.



Step 13 / 19

Detail3: Log in with Imagi-net ID.

Sign in to your account

Microsoft

Select an account

 Jun Koh
koharajun@
Window

利用規約

プライバシーとCookie

...

Step 14 / 19

Detail4: Click the [Connect Printer] button.

Peck2 Ver 2.30

koharajun@ .co.jp

Login

Server Update

Printer Info

User Information

Certification Points

Model:

Certified: YES

30 days

ConnectPrinter

Select: VG2-640(11 .129.52)

Input IP Address:

Connect

Close

Work Report

Completed #: 0

Imcompleted #: 2

Input

Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Check Report

Check KB Article

Update Firmware

Imagi-net Product Page

Put Parameter

Help

Step 15 / 19

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

Peck2 Ver 2.30

koharajun@ .co.jp

Login

Server Update

Printer Info

User Information

Certification Points

Model:

Certified: YES

30 days

ConnectPrinter

Select: VG2-640(11 .129.52)

Input IP Address:

Connect

Close

Work Report

Completed #: 0

Imcompleted #: 2

Input

Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Check Report

Check KB Article

Update Firmware

Imagi-net Product Page

Put Parameter

Help

Step 16 / 19

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

Peck2 Ver. 2.20

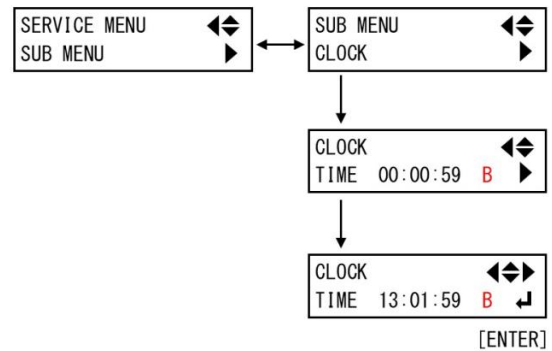
koharajun@ .co.jp Login Server Update

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

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

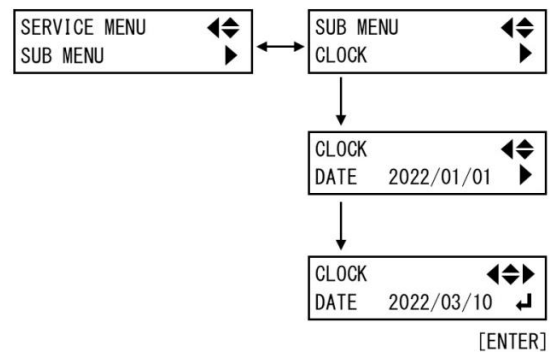
Step 17 / 19

Select [SUB MENU] > [CLOCK] > [TIME].
Set the time, and press the [ENTER] key.
The display of [B] which shows battery exhaustion disappears by this step.



Step 18 / 19

Select [SUB MENU] > [CLOCK] > [DATE].
Set the date, and press the [ENTER] key.



Step 19 / 19

Dispose of the removed battery.



MG-640300 Junction Board Replacement

MG-640300 Junction Board 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



Step 2 / 3

Typical work time

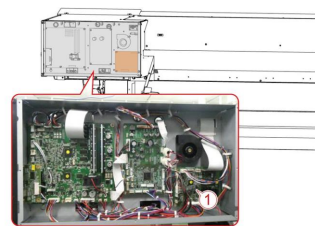
作業時間/Typical work time

作業内容/Contents of work	時間/Time
ジャンクションボード交換 Junction board replacement	15 min.

Step 3 / 3

Junction board

概要図/Outline Diagram

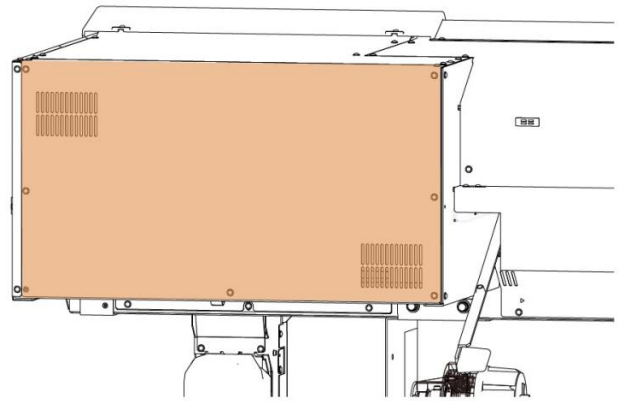


MG-640300 Junction Board Replacement

MG-640300 Junction Board Replacement Procedure

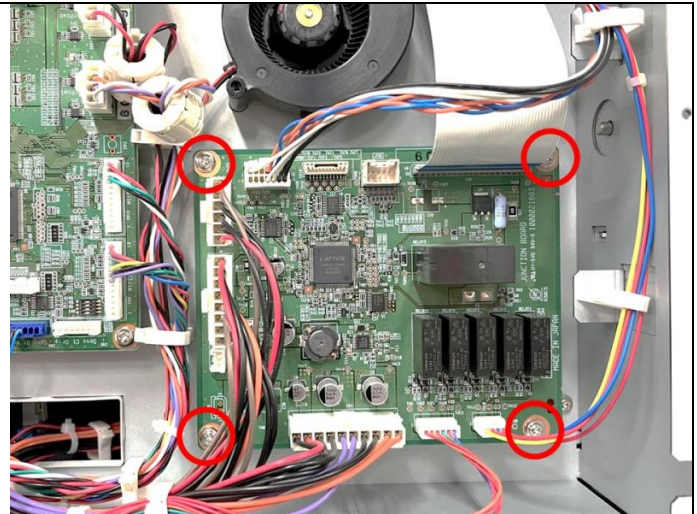
Step 1 / 2

Cover That Needs To Be Removed



Step 2 / 2

Remove the junction board and replace it with a new one.



MG-640300 Servo Board Replacement

MG-640300 Servo Board 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



Step 2 / 3

Typical work time

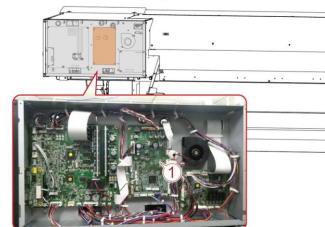
作業時間/Typical work time

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

Step 3 / 3

Servo board

概要図/Outline Diagram

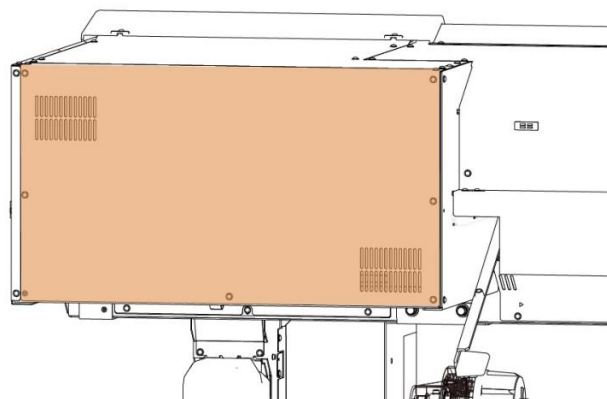


MG-640300 Servo Board Replacement

MG-640300 Servo Board Replacement Procedure

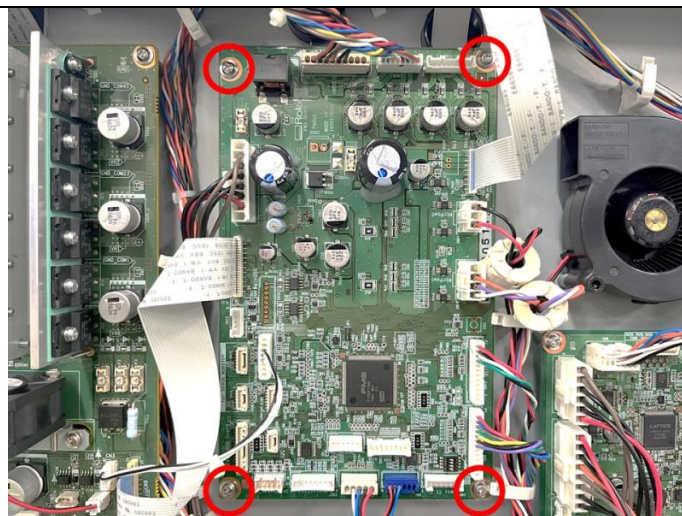
Step 1 / 4

Cover That Needs to Be Removed



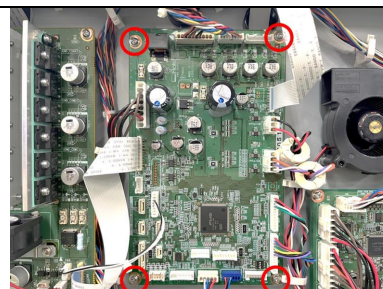
Step 2 / 4

Remove the servo board.



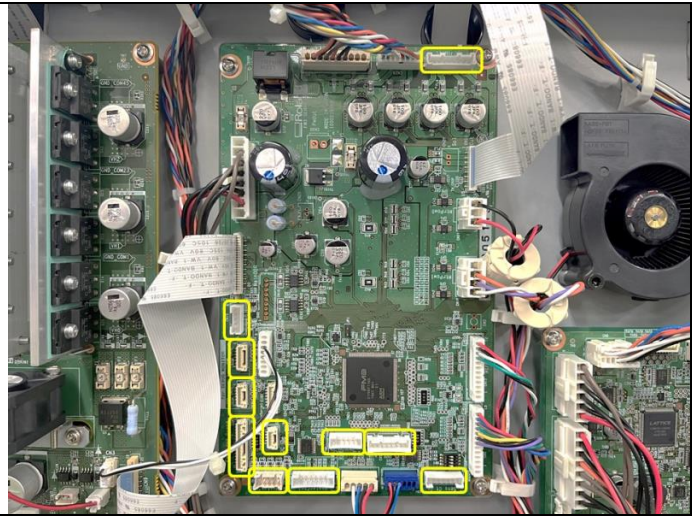
Step 3 / 4

Replace the servo board with a new one.



Step 4 / 4

Detail1: There are no connectors to plug into the location shown by the yellow arrow. (12 locations)



MG-640300 SW Power Supply Replacement

MG-640300 SW Power Supply 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



Step 2 / 3

Typical work time

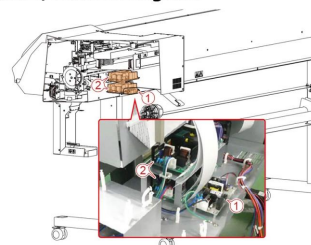
作業時間/Typical work time

作業内容/Contents of work	時間/Time
スイッチング電源交換 (5V) SW power supply(5V) replacement	20 min.
スイッチング電源 (41V) SW power supply(41V) replacement	20 min.

Step 3 / 3

1. SW power supply (5V), 2. SW power supply (41V)

概要図/Outline Diagram

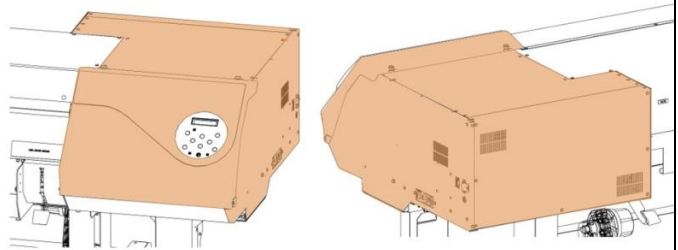


MG-640300 SW Power Supply Replacement

MG-640300 SW Power Supply Replacement Procedure

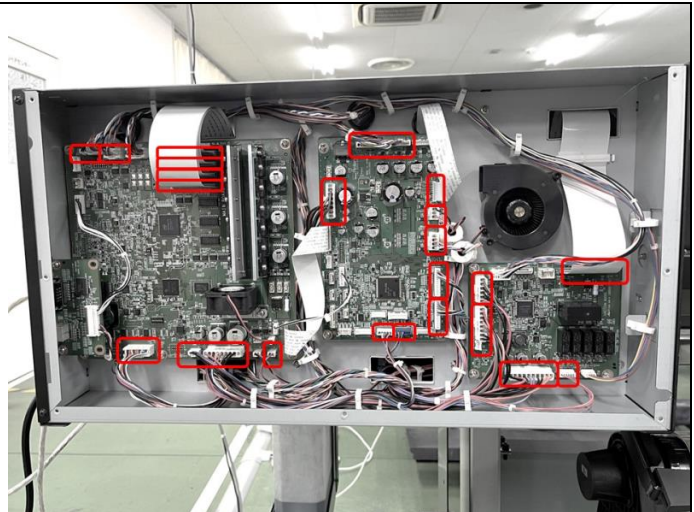
Step 1 / 16

Cover That Needs to Be Removed



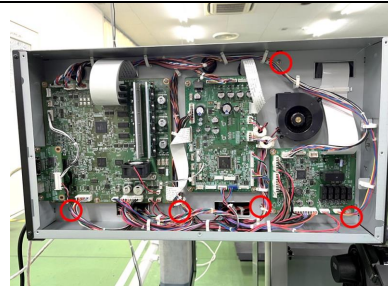
Step 2 / 16

Disconnect all the cables and ribbon cables that connects the machine with the controller chassis.



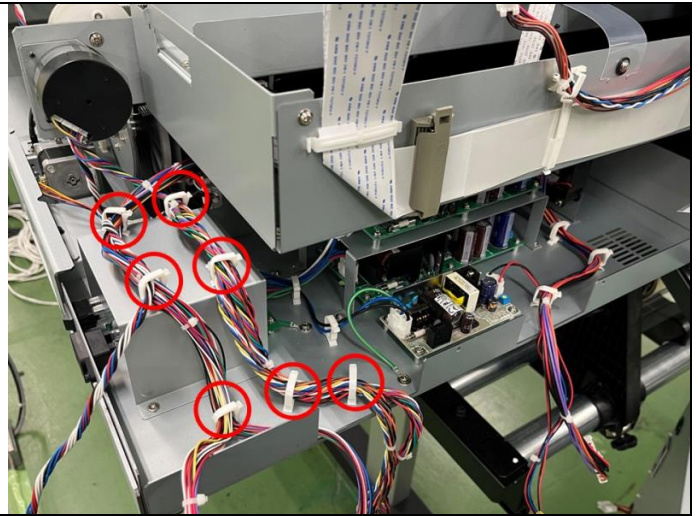
Step 3 / 16

Remove the controller chassis.



Step 4 / 16

Unfasten the cable saddles.



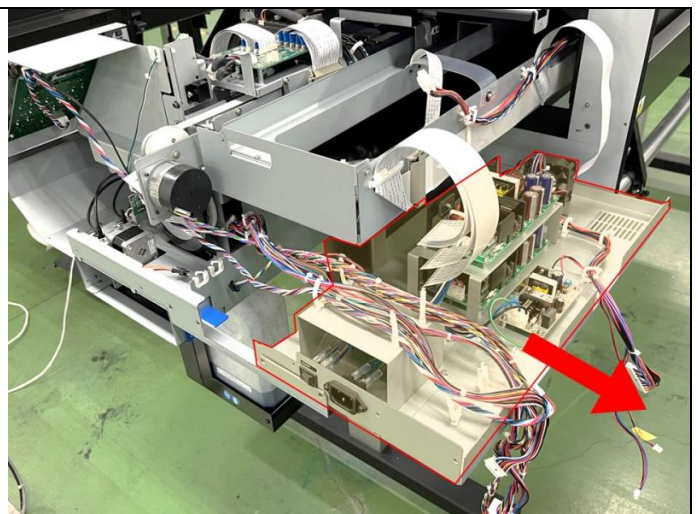
Step 5 / 16

Remove two screws below the chassis and one screw at the side of the chassis.



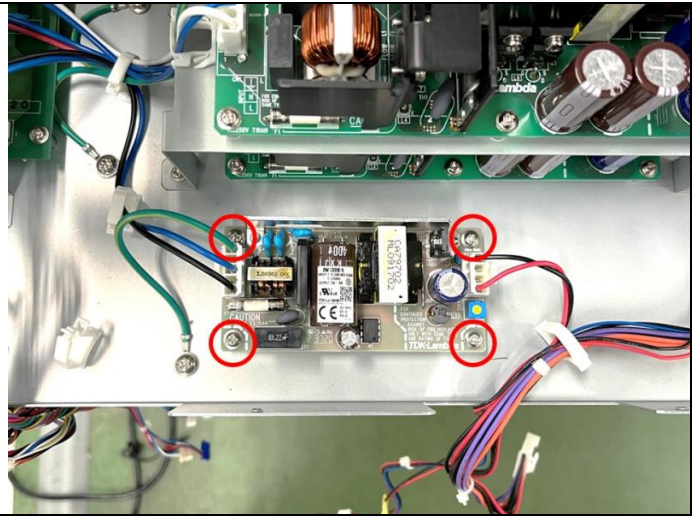
Step 6 / 16

Remove the power unit chassis by sliding it.



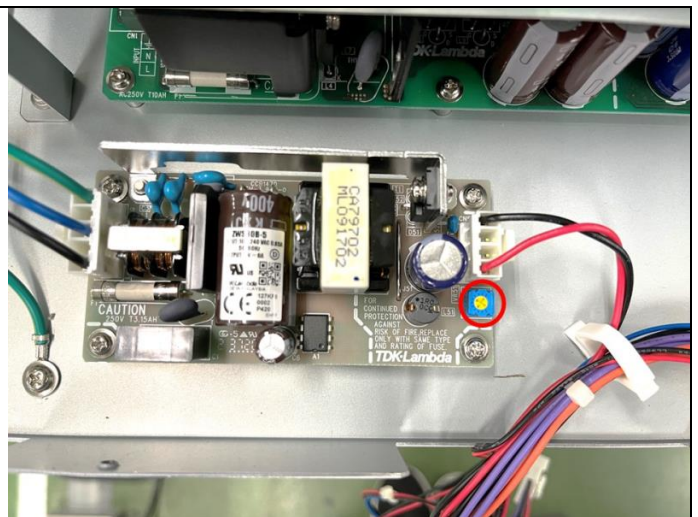
Step 7 / 16

Remove the SW power supply (5V) and replace it with a new one.



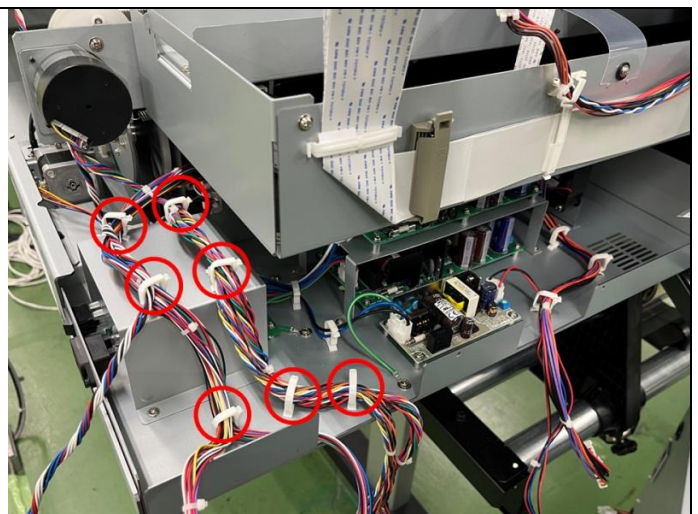
Step 8 / 16

In case you accidentally turn the potentiometer, adjust the output voltage value to +5 +/- 0.1.



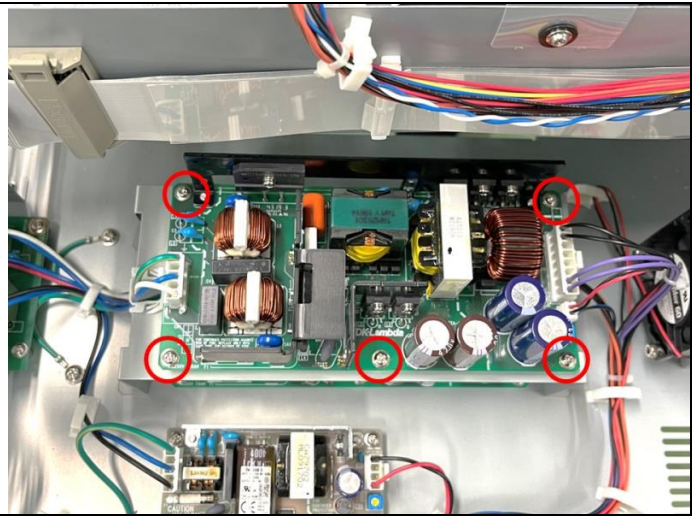
Step 9 / 16

Remove the SW power supply (41V), and replace it with a new one.



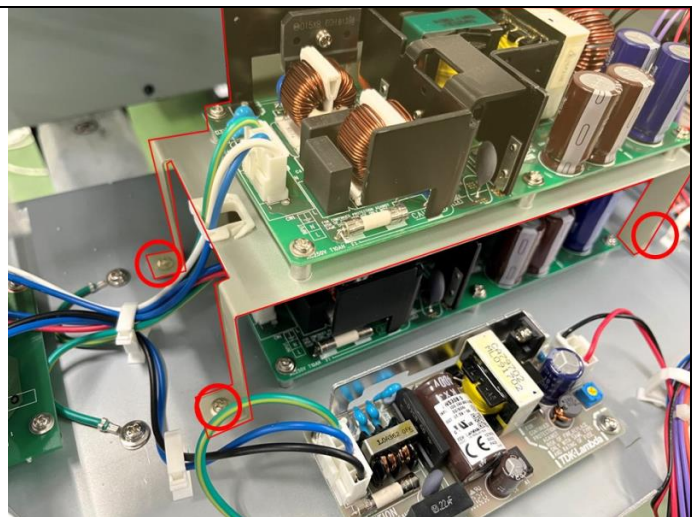
Step 10 / 16

Detail1: When you remove the SW power supply at the lower level, remove the upper level first.



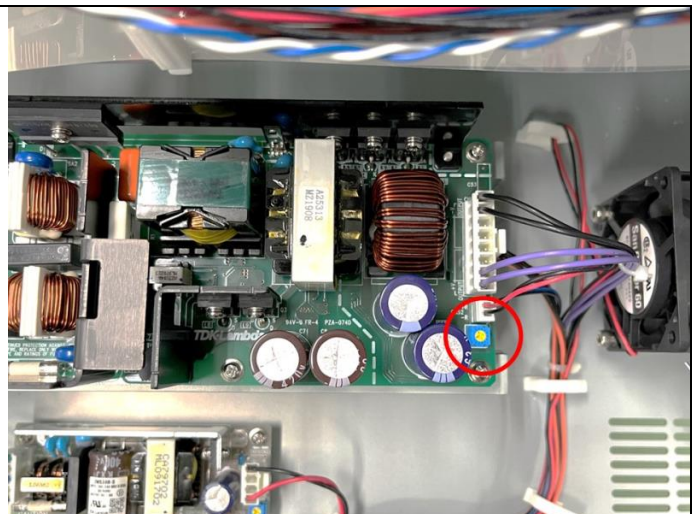
Step 11 / 16

In the case that the volume is accidentally turned, adjust the output voltage value to $+41 \pm 0.1$.



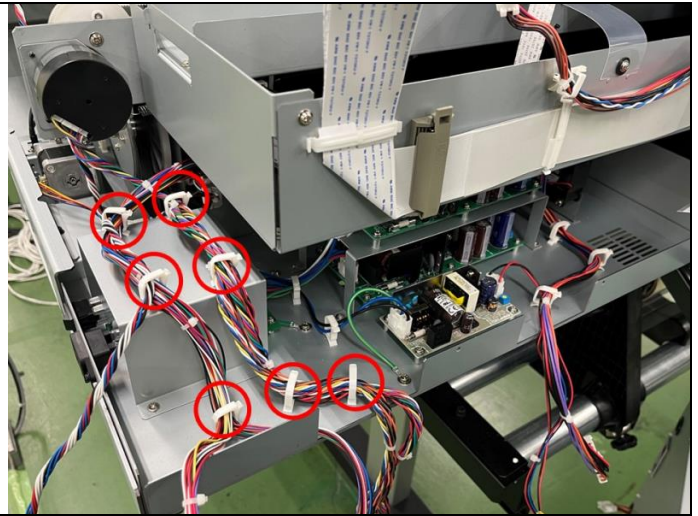
Step 12 / 16

Put back the power unit chassis to the original position, then attach the cables.



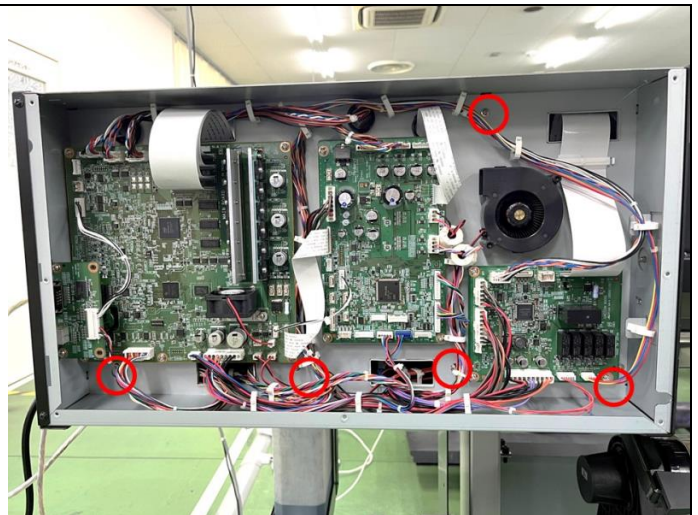
Step 13 / 16

Attach the controller chassis.



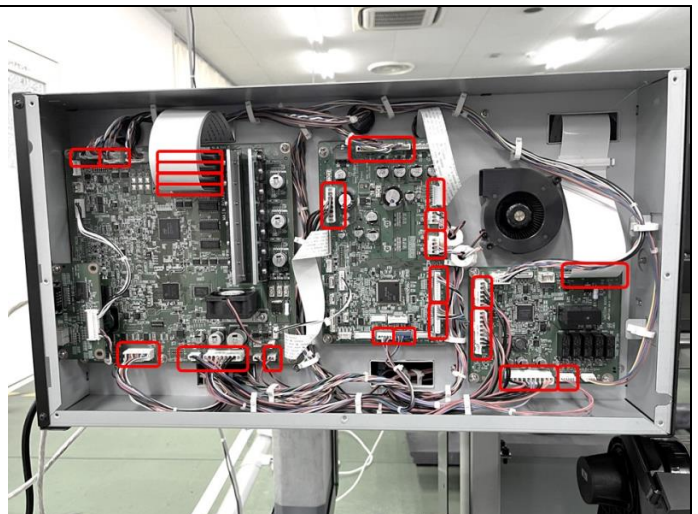
Step 14 / 16

Attach all removed connectors and flexible cables.



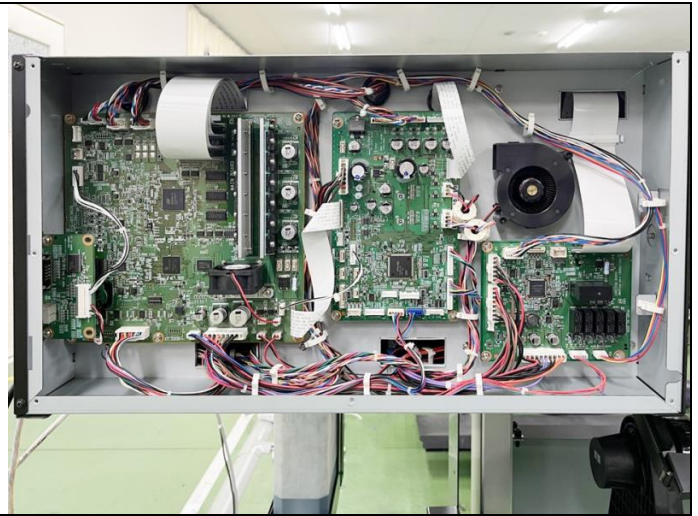
Step 15 / 16

Reference diagram



Step 16 / 16

Detail1: □□□



MG-640300 Scan Motor Replacement

MG-640300 Scan Motor 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3.0mm
3.0 mm hexagonal wrench

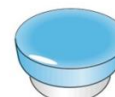


Step 2 / 3

Special tools

特殊治具/Special Tools

6000004129
GREASE, FLOIL G-902 10ML_02



Step 3 / 3

Typical work time

作業時間/Typical work time

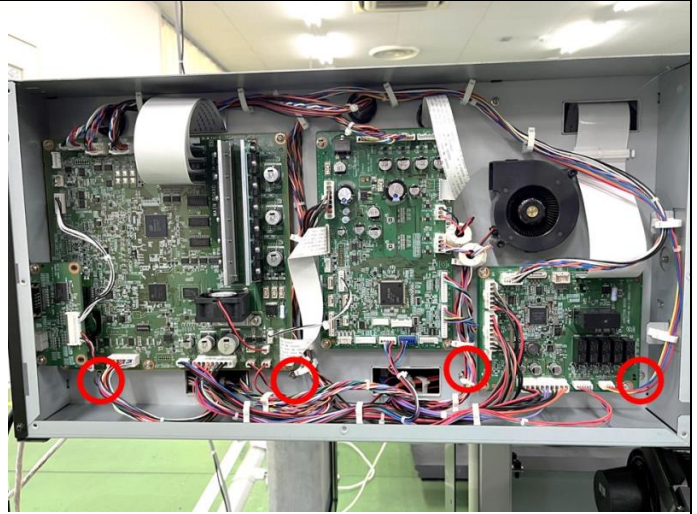
作業内容/Contents of work	時間/Time
スキャンモーター交換 Scan motor replacement	20 min.
サーボロック確認 Servo lock check	1 min.
エージング確認 Aging check	5 min.
モーター時間クリア Motor time clear	1 min.

MG-640300 Scan Motor Replacement

MG-640300 Scan Motor Replacement Procedure

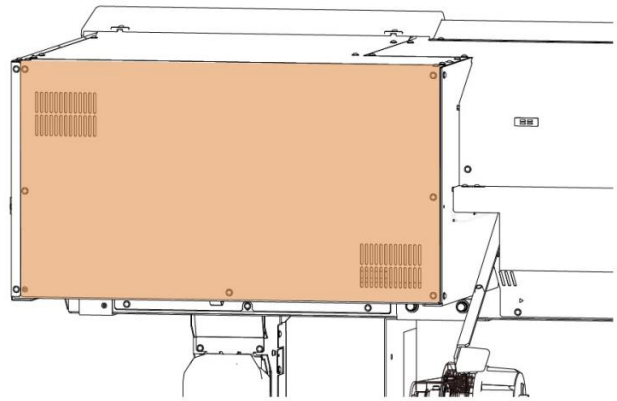
Step 1 / 29

Remove the right side cover. Before removing right side cover, be sure to loosen the screws that secure the controller schassis. If this is not performed, excessive load is applied to the screws. Due to the overload, screws may get broken or screw holes may get damaged.



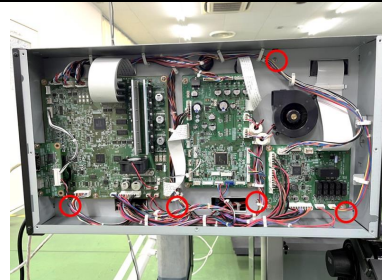
Step 2 / 29

Remove the schassi cover.



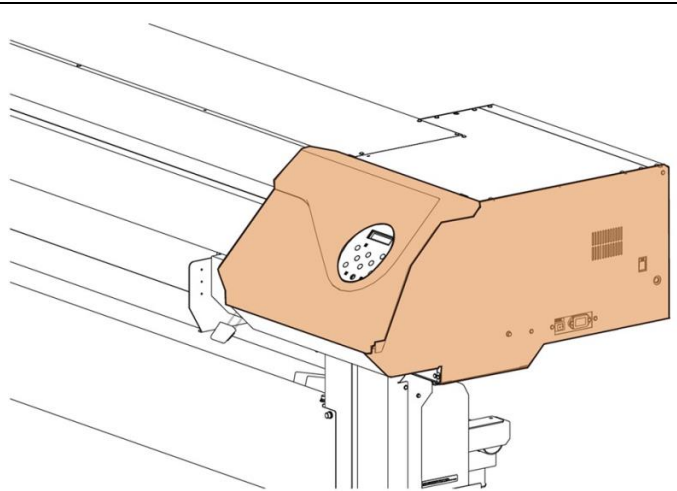
Step 3 / 29

Loosen the screws that secure the controller schassis.



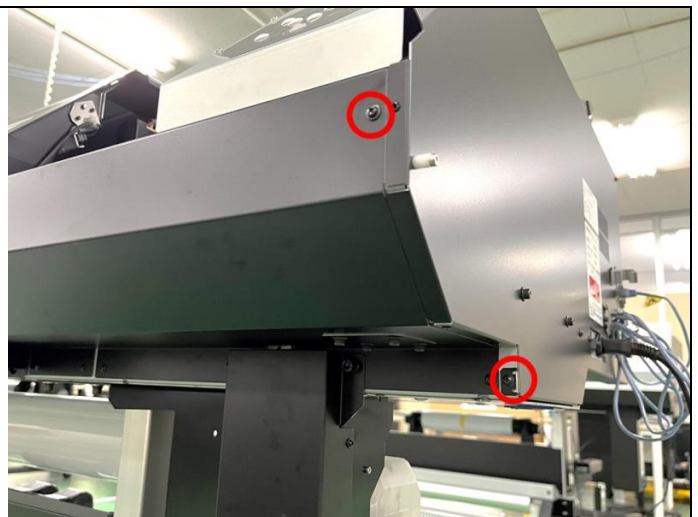
Step 4 / 29

Remove the right side cover.



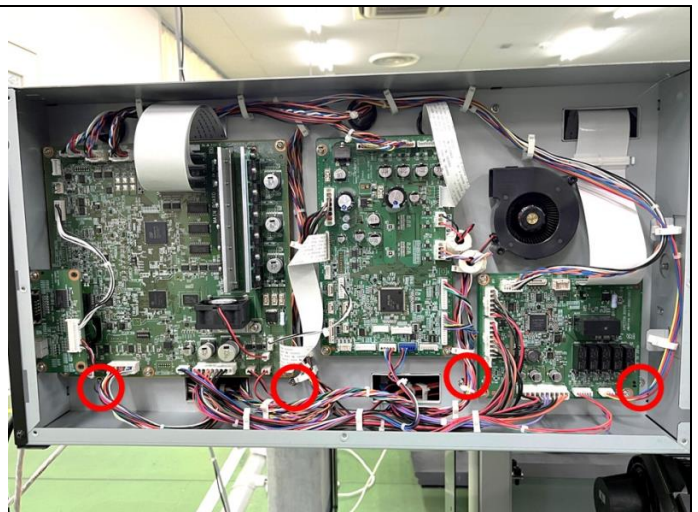
Step 5 / 29

Detail1: When removing the front part of the cover, remove the screws shown in the figure.



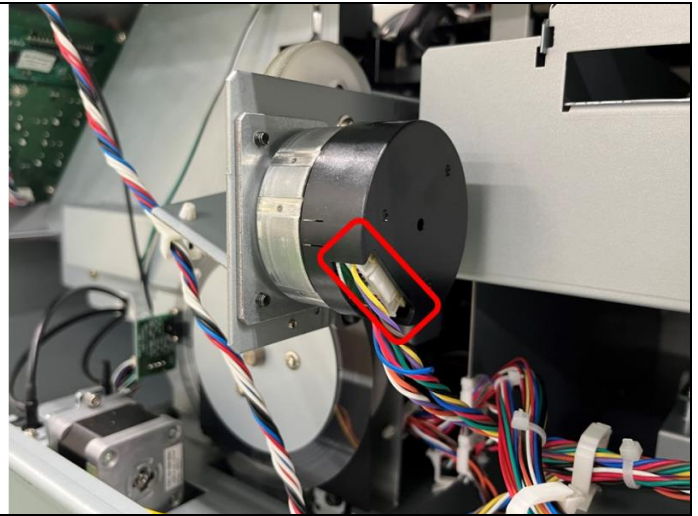
Step 6 / 29

When attaching the covers, attach the right cover and then tighten the screws of controller schassi loosened when removing the covers.



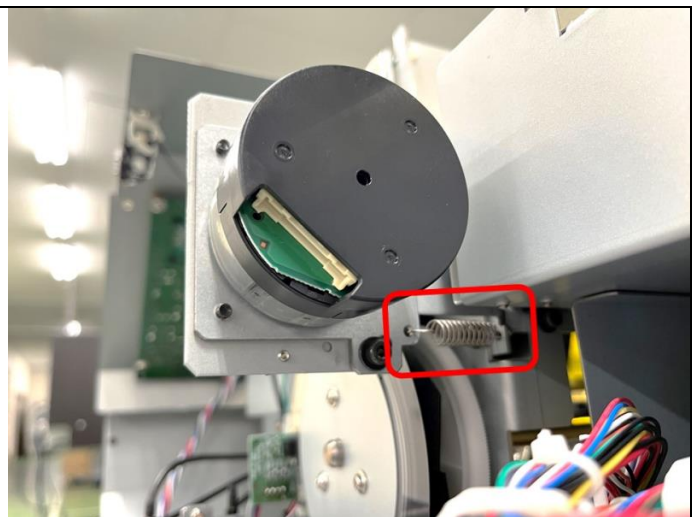
Step 7 / 29

Unplug the connector.



Step 8 / 29

Remove the spring.

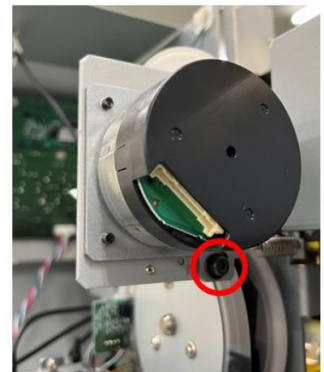
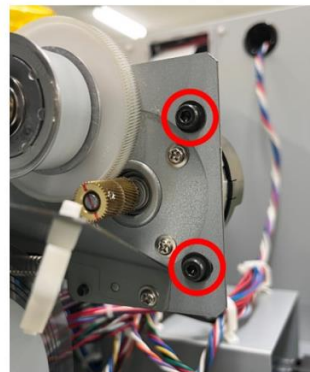


Step 9 / 29

Remove the motor together with the flange.

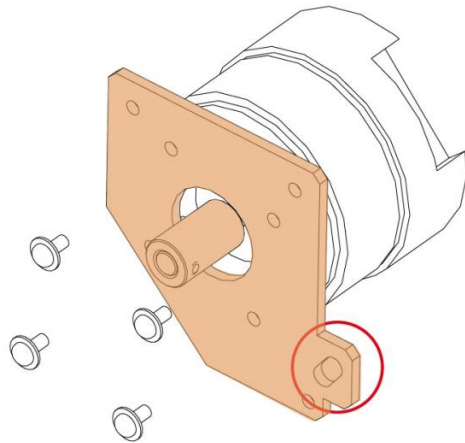
Front view

Rear view



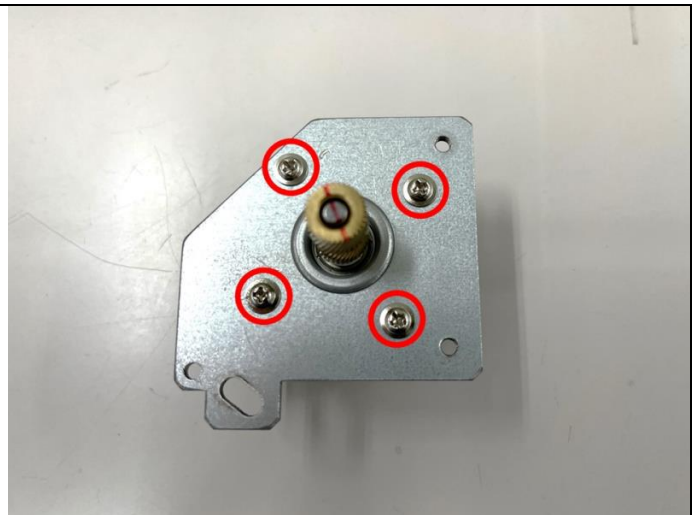
Step 10 / 29

Be careful to correctly orient the flange in relation to the motor cables.



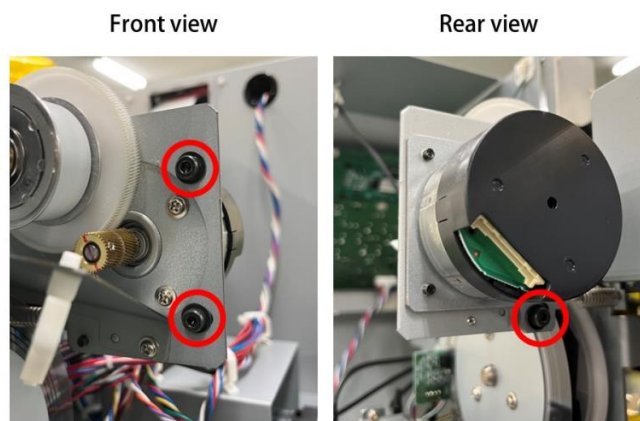
Step 11 / 29

Attach the new motor to the flange.



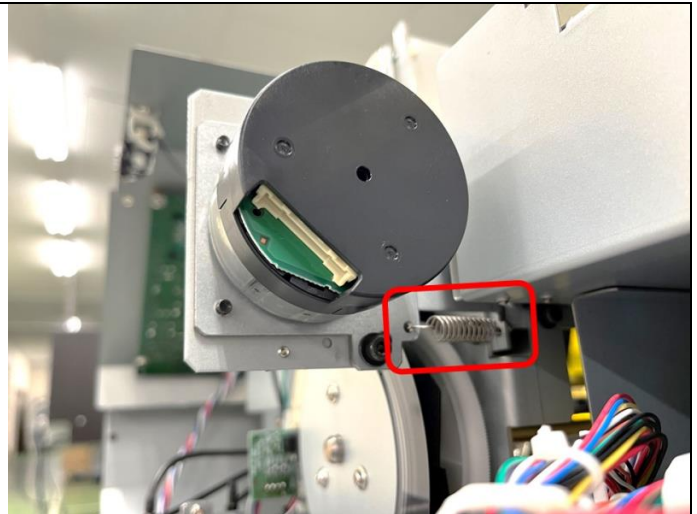
Step 12 / 29

Temporarily fasten the flange with three screws.



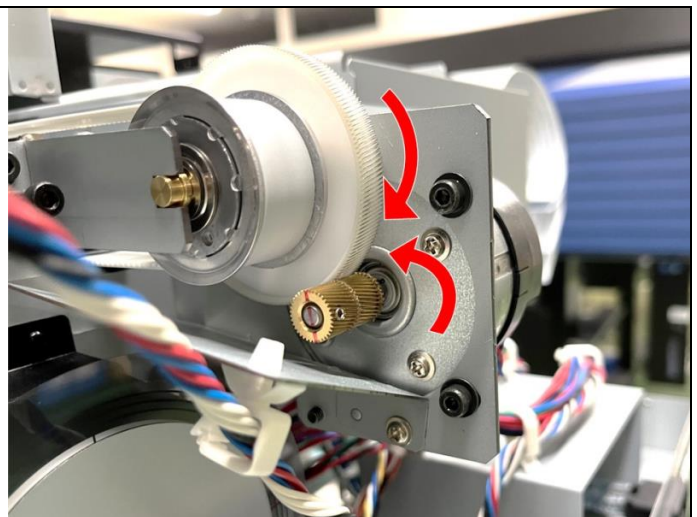
Step 13 / 29

Attach the spring.



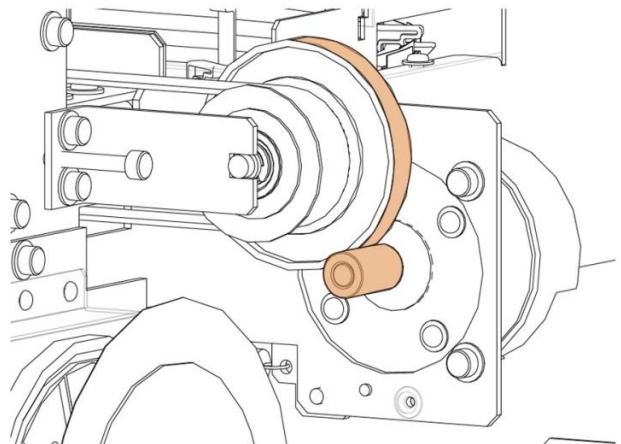
Step 14 / 29

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



Step 15 / 29

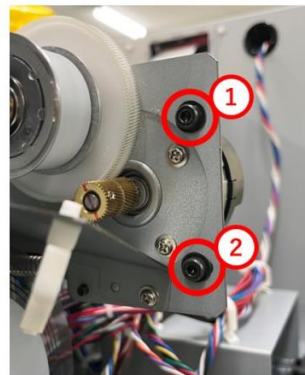
Apply grease to the motor gear and the drive gear.



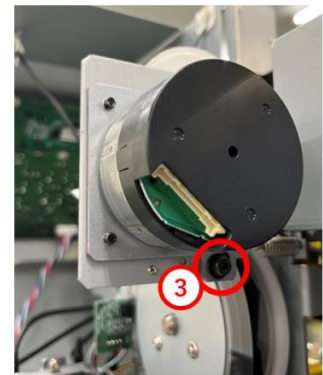
Step 16 / 29

Fully tighten three screws in order, to secure the flange.

Front view

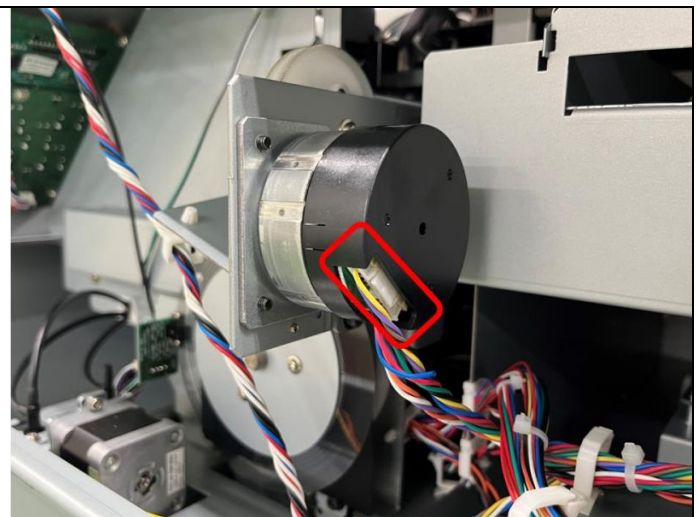


Rear view



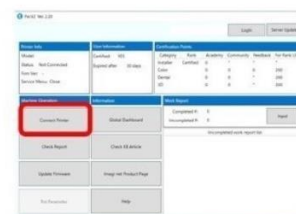
Step 17 / 29

Plug the connector into the motor.



Step 18 / 29

Attach the covers. Then turn on the power switch, and start Peck 2 to enter the service mode.



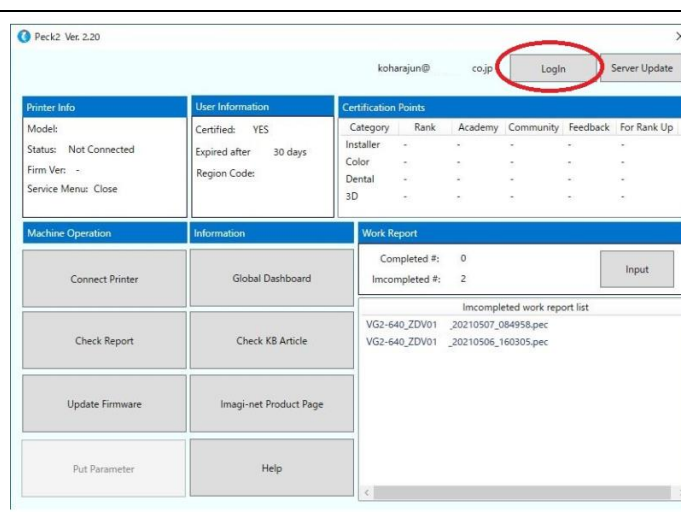
Step 19 / 29

Detail1: Start Peck2.



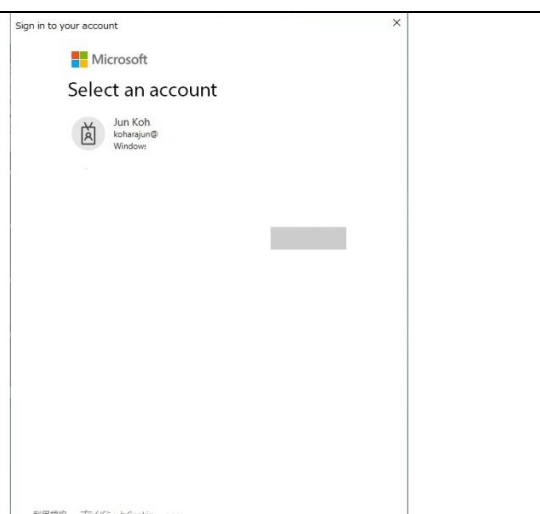
Step 20 / 29

Detail2: Click the [Login] button.



Step 21 / 29

Detail3: Log in with Imagi-net ID.



Step 22 / 29

Detail4: Click the [Connect Printer] button.

Peck2 Ver. 2.20

koharjun@ .co.jp Login Server Update

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

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

Incompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Step 23 / 29

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

Peck2 Ver. 2.20

koharjun@ .co.jp Login Server Update

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

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

Incompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Step 24 / 29

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

Peck2 Ver. 2.20

koharjun@ .co.jp Login Server Update

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

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

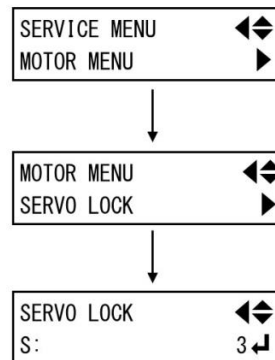
Incompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

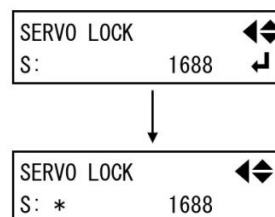
Step 25 / 29

Select [SERVICE MENU] > [MOTOR MENU] > [SERVO LOCK] > [S]. Move the print-head carriage left and right by hand and confirm that the value on the LCD changes as you move the print head.



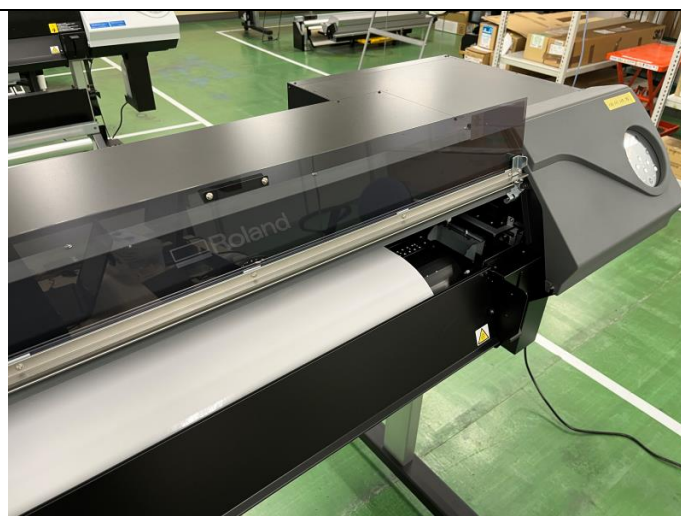
Step 26 / 29

Press the [ENTER] key to energize the motor. Confirm that the print-head carriage cannot be moved easily by hand and that the value on the LCD returns to the original value.



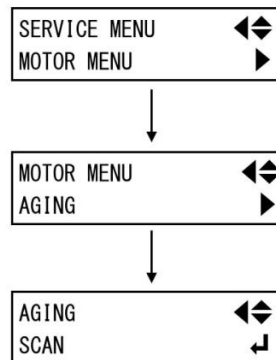
Step 27 / 29

Caution! Remove media before performing aging.



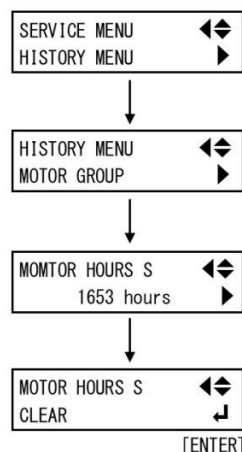
Step 28 / 29

Go back to [MOTOR MENU]. Select [AGING] > [SCAN], and press the [ENTER] key. Make sure the printer performs aging, and then finish again by pressing the [ENTER] key again.



Step 29 / 29

Go back to [SERVICE MENU]. Select [HISTORY MENU] > [MOTOR GROUP] > [MOTOR HOURS S] > [CLEAR], and press the [ENTER] key. The motor working hours will be reset to 0.



MG-640300 Feed Motor Replacement

MG-640300 Feed Motor Replacement Information

Step 1 / 4

Necessary tools

一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
六角レンチ1.5mm 1.5 mm hexagonal wrench	
六角レンチ3.0mm 3.0 mm hexagonal wrench	

Step 2 / 4

Special tools

特殊治具/Special Tools

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

Step 3 / 4

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
フィードモーター交換 Feed motor replacement	45 min.
サーボロック確認 Servo lock check	1 min.
グリットエンコーダチェック Grit encoder check	1 min.
エージング確認 Aging check	5 min.
モーター 時間クリア Clearing the motor time	1 min.

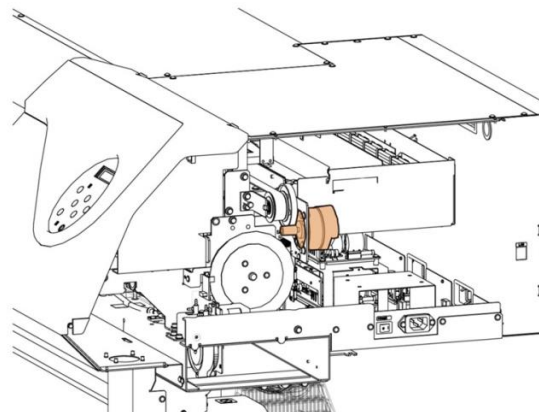
Friday, June 27, 2025 8:59 AM

Language: en

Step 4 / 4

Feed motor

概要図/Outline Diagram

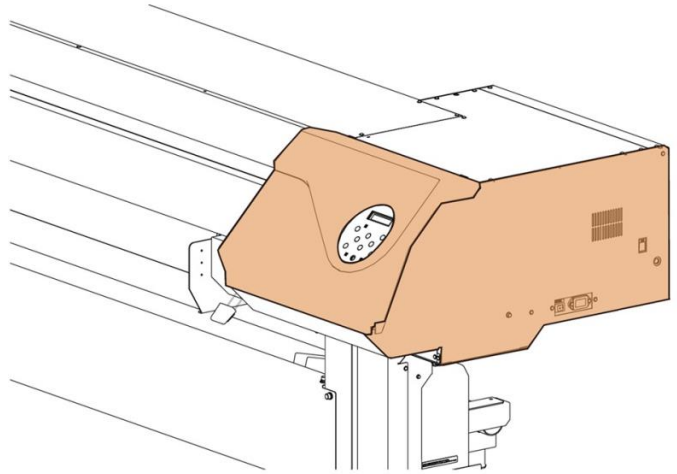


MG-640300 Feed Motor Replacement

MG-640300 Feed Motor Replacement Procedure

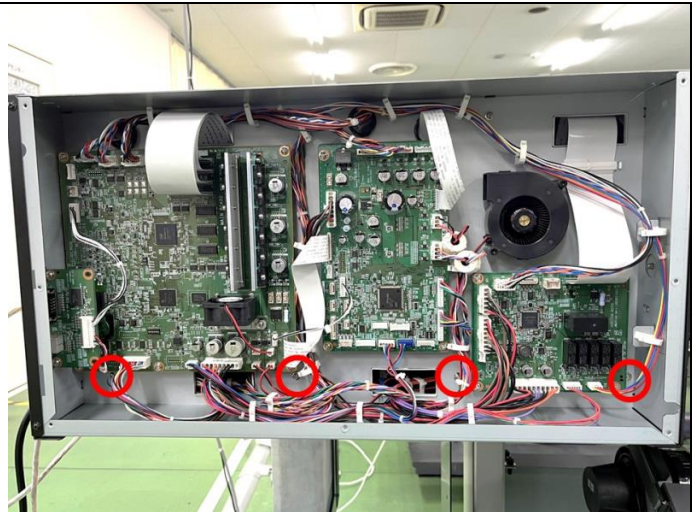
Step 1 / 36

Cover that needs to be removed



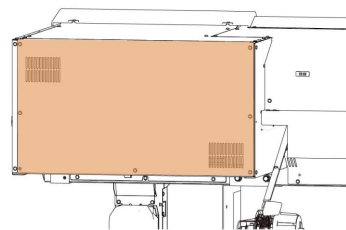
Step 2 / 36

Before removing right side cover, be sure to loosen the screws that secure the controller chassis. If this is not performed, excessive load is applied to the screws. Due to the overload, screws may get broken or screw holes may get damaged.



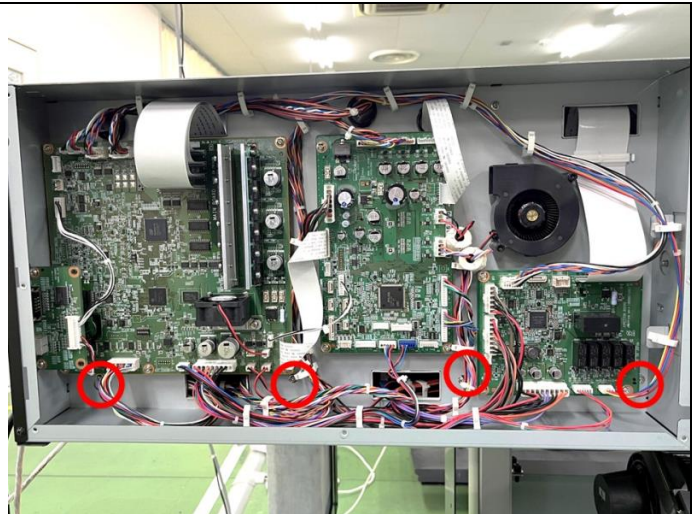
Step 3 / 36

Remove the back cover.



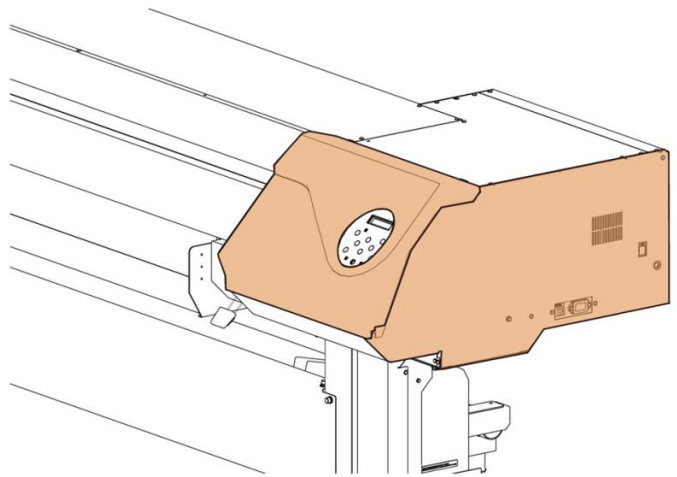
Step 4 / 36

Loosen the screws that secure the controller schassis.



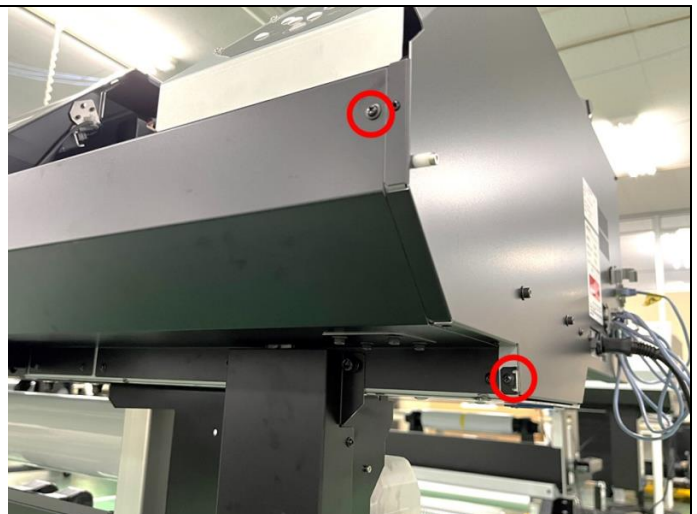
Step 5 / 36

Remove the right side cover.



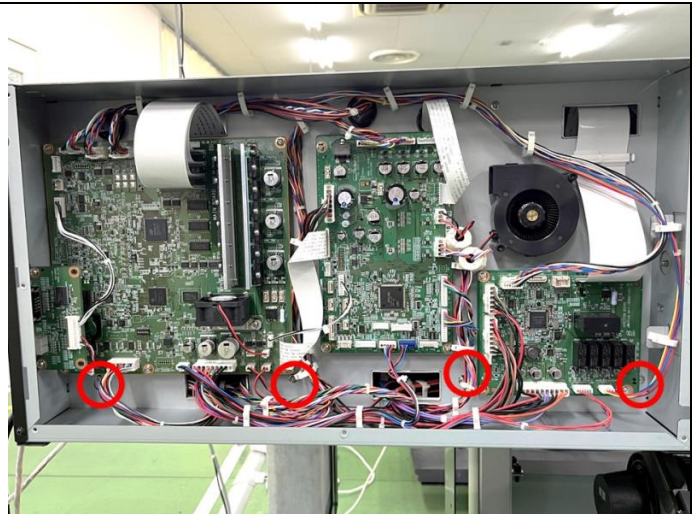
Step 6 / 36

Detail1: When removing the front part of the cover, remove the screws shown in the figure.



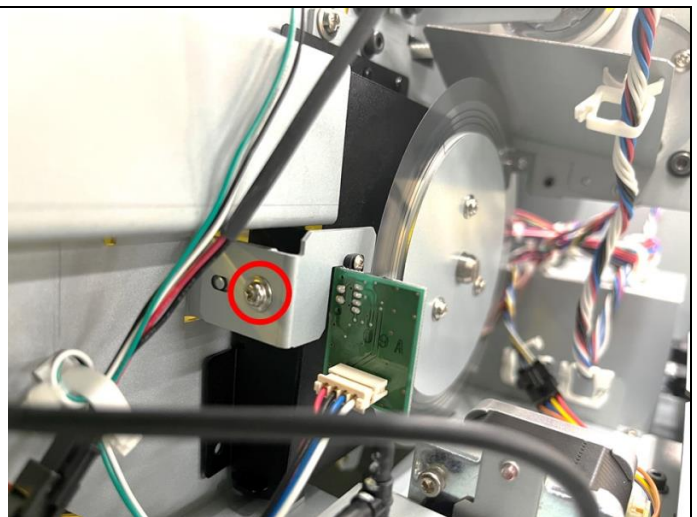
Step 7 / 36

When attaching the covers, attach the right cover and then tighten the screws of controller chassis loosened when removing the cover.



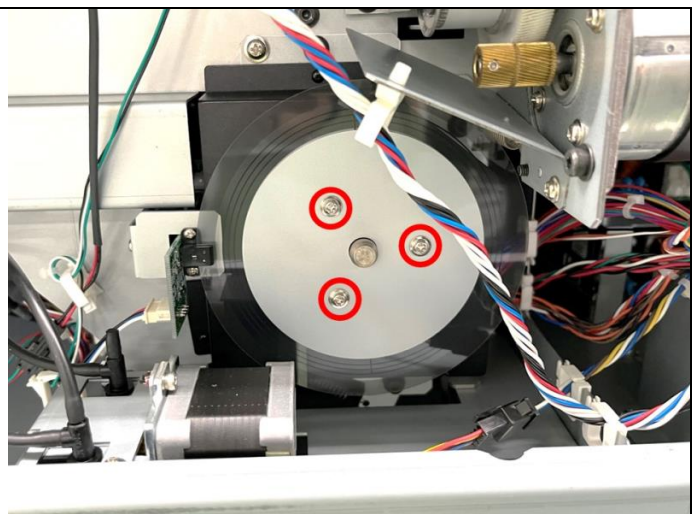
Step 8 / 36

Remove the grit encoder board.



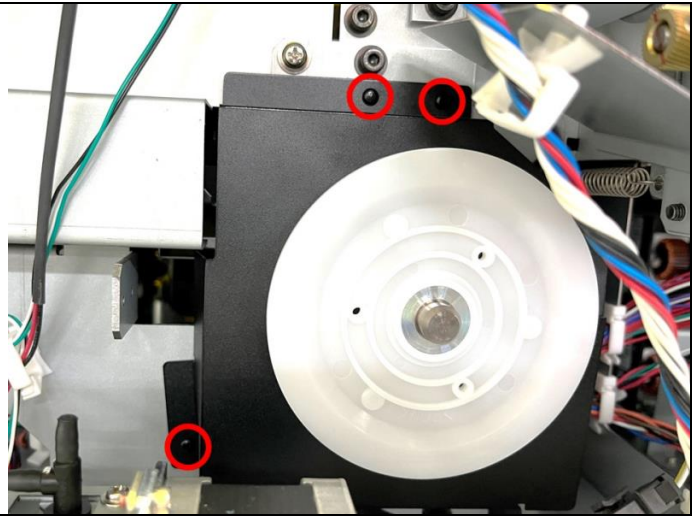
Step 9 / 36

Remove the grit encoder stopper and the grit encoder.



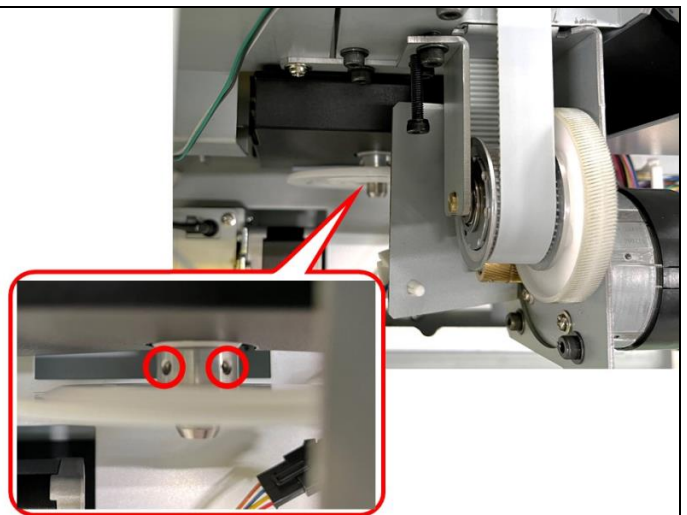
Step 10 / 36

Detach the rivets from the motor cover.



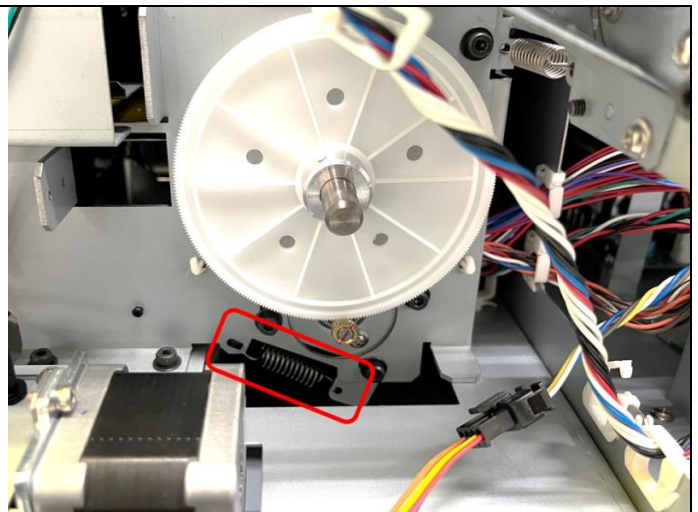
Step 11 / 36

Remove the grit encoder stay and the motor cover.



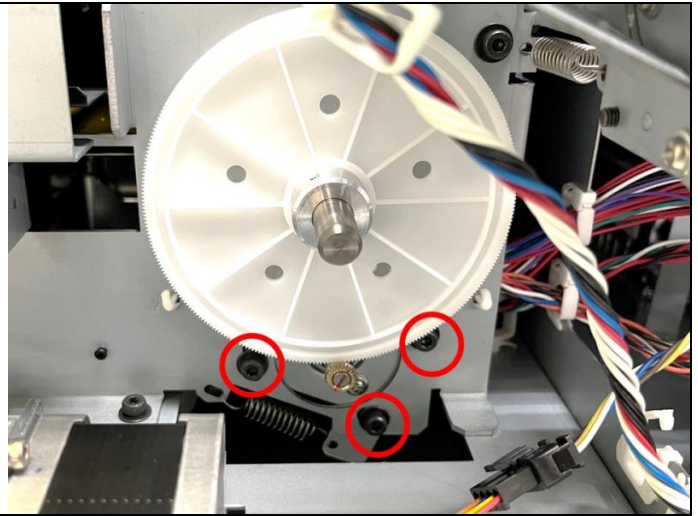
Step 12 / 36

Remove the spring.



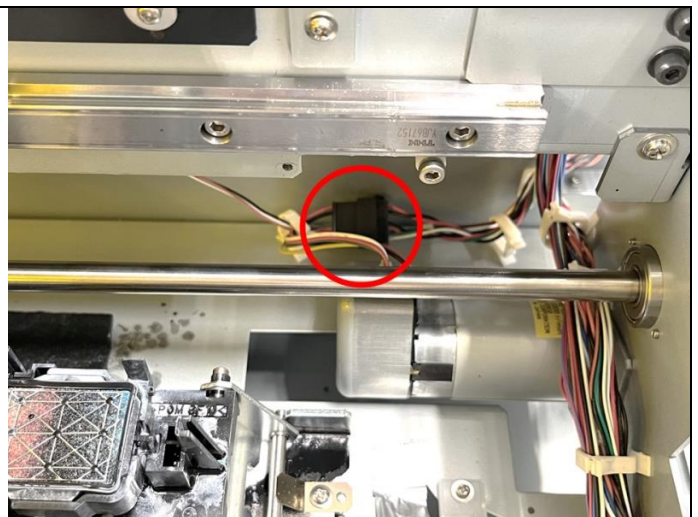
Step 13 / 36

Remove the motor together with the flange.



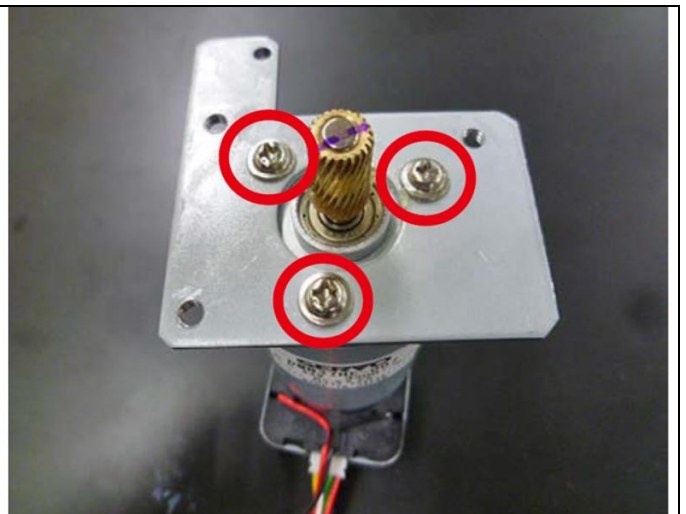
Step 14 / 36

Unplug the connectors and remove the feed motor.



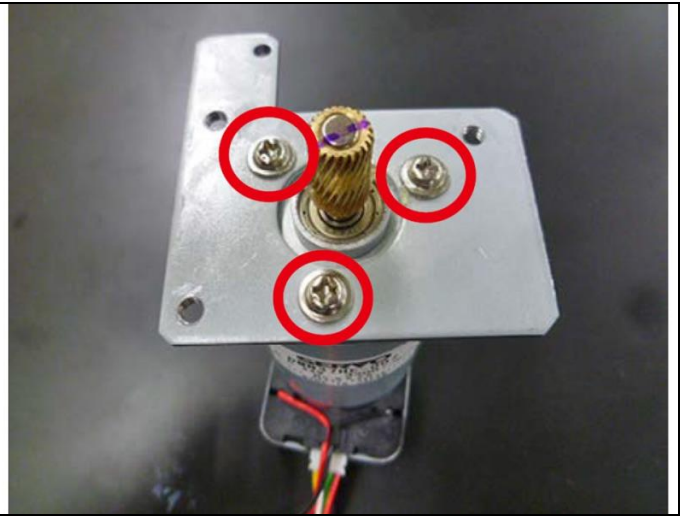
Step 15 / 36

Remove the screws, and remove the feed motor.



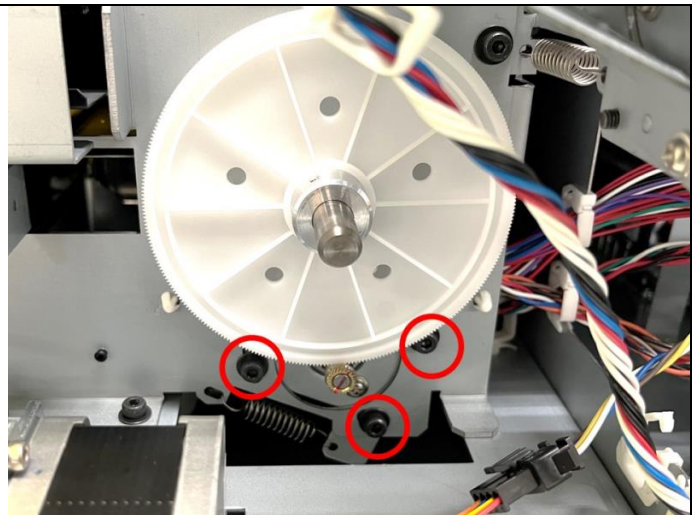
Step 16 / 36

Attach the new motor to the flange, making sure to orient the flange relative to the motor cable.



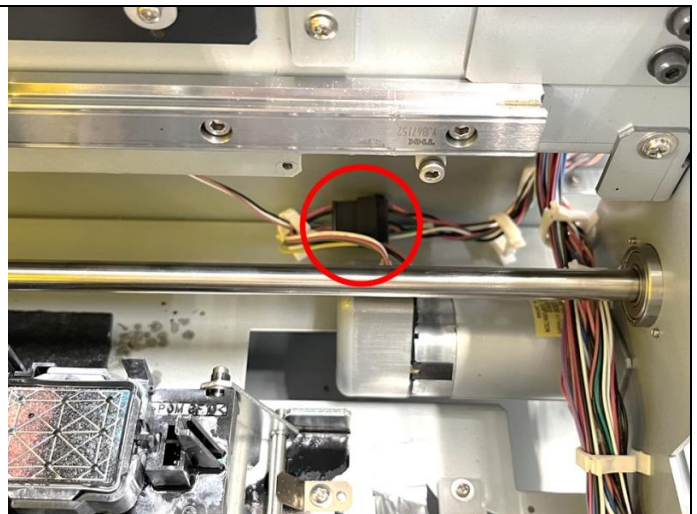
Step 17 / 36

Move the motor back to its original position. Then, temporarily fasten the flange with three screws.



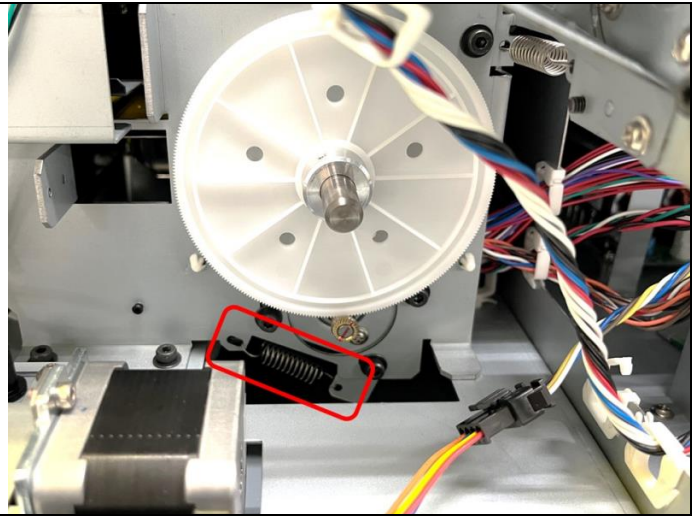
Step 18 / 36

Attach the connector.



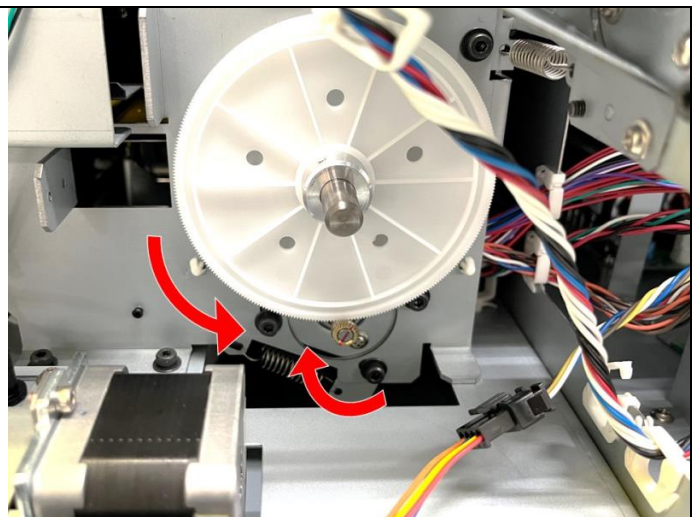
Step 19 / 36

Attach the springs.



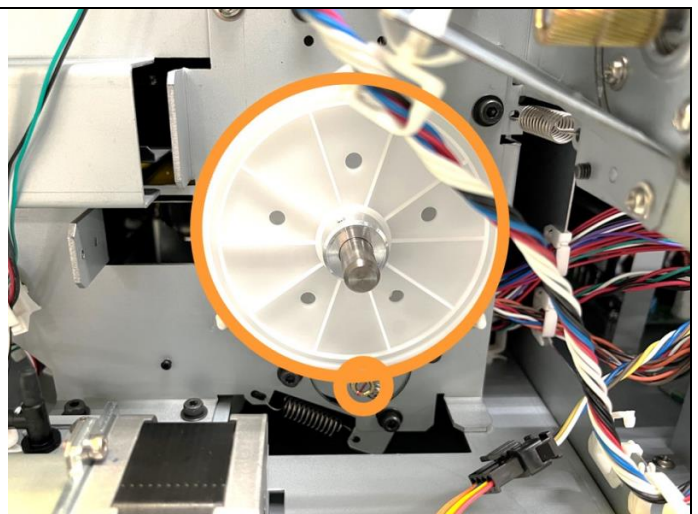
Step 20 / 36

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



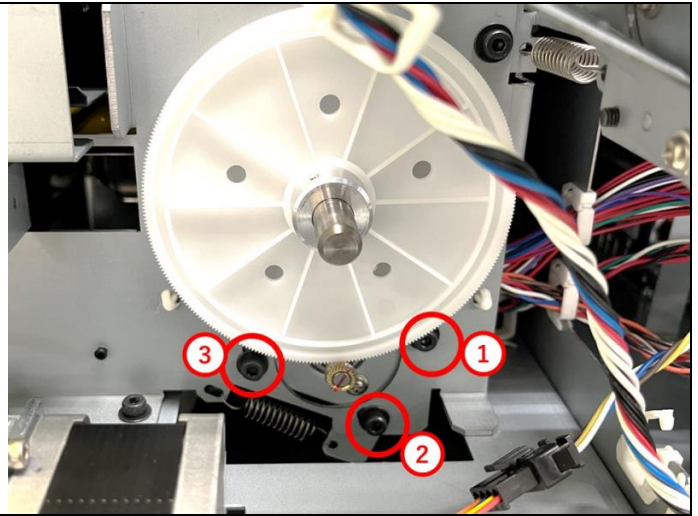
Step 21 / 36

Apply grease to the motor gear and the drive gear. (Grease: GREASE,FLOIL G-902 10ML_02, Volume: as needed)



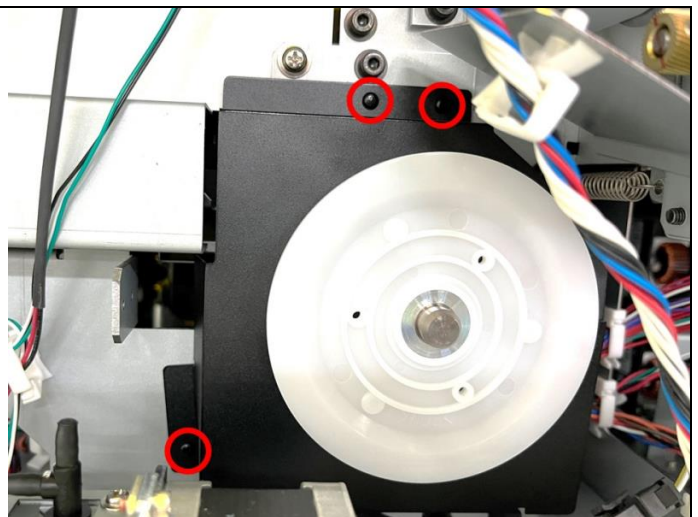
Step 22 / 36

Fully tighten the screws in order, to secure the flange.



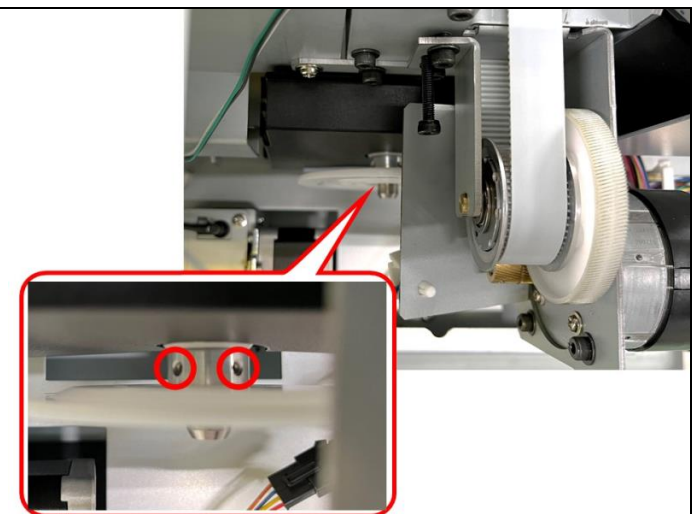
Step 23 / 36

Fix the motor cover with rivets.



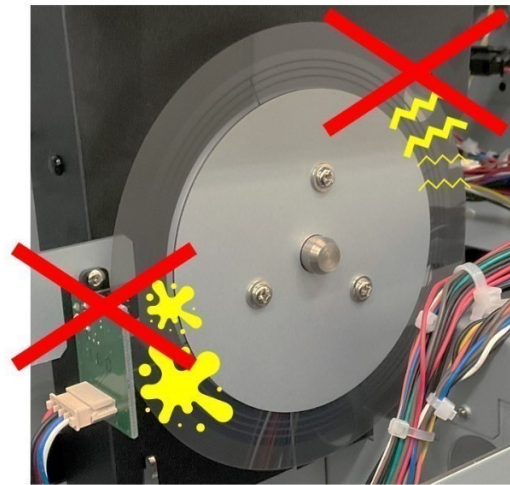
Step 24 / 36

Attach the grit encoder stay.



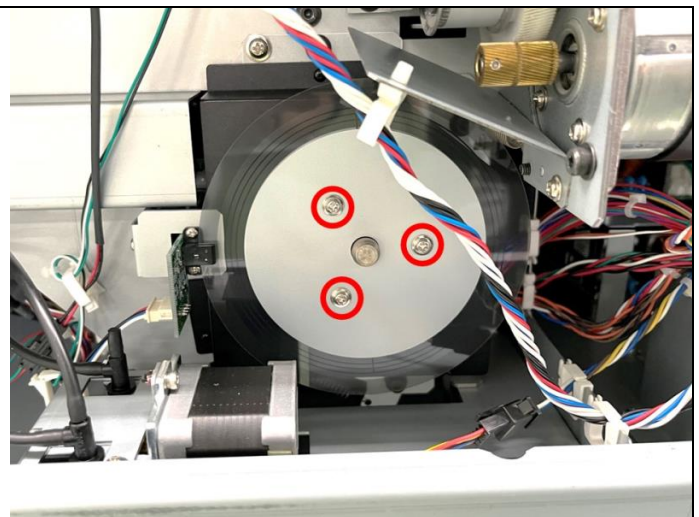
Step 25 / 36

Be careful not to scratch or get grease on the grit encoder when installing it.



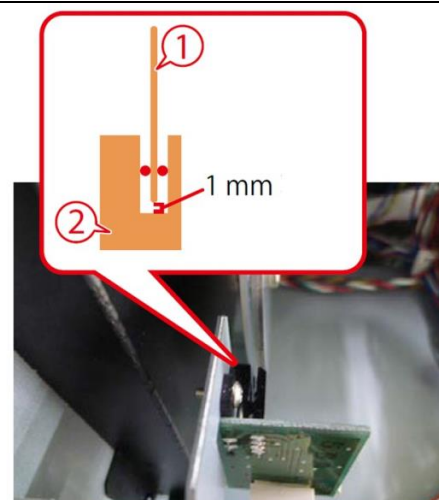
Step 26 / 36

Tighten three screws to secure the grit encoder stopper and the grit encoder.



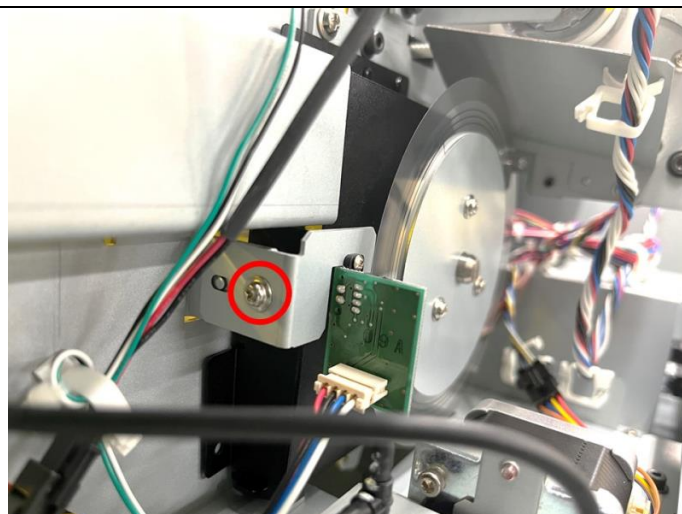
Step 27 / 36

Secure the stay to keep the grit encoder in the center position of the sensor.
Make sure to keep the gap approximately 1mm to the front and rear to the sensor. (1.Grit encoder, 2.Grit encoder sensor)



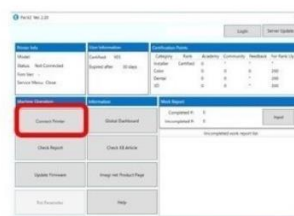
Step 28 / 36

Attach the grit encoder board.



Step 29 / 36

Attach the covers, and turn on the power switch. Then connect Peck2 to the machine, and enter the service mode.



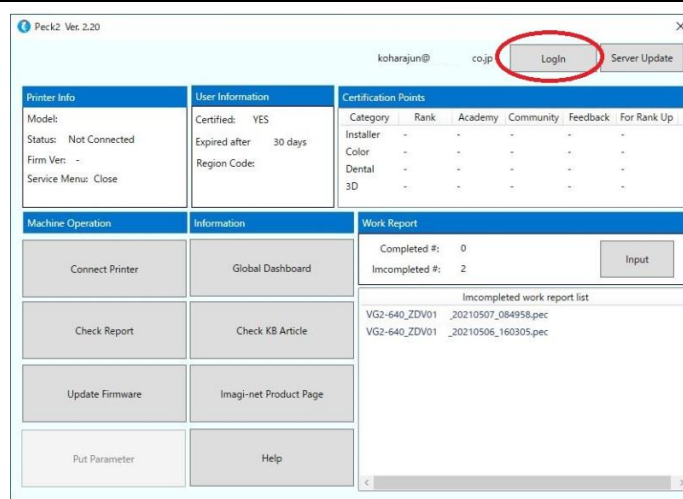
Step 30 / 36

Detail1: Start Peck2.



Step 31 / 36

Detail2: Click the [Login] button.



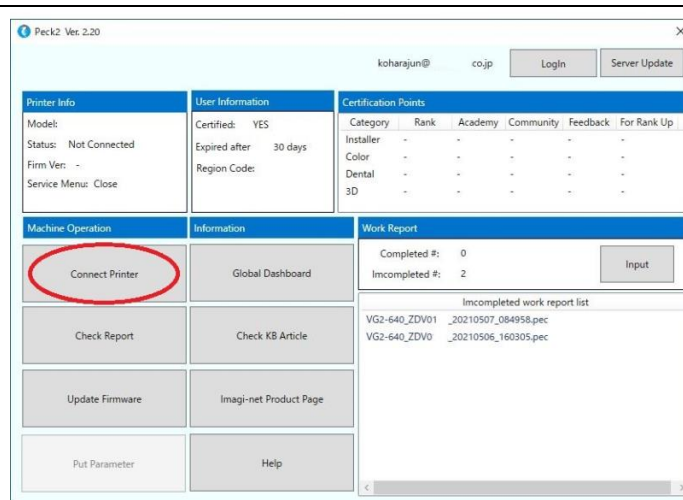
Step 32 / 36

Detail3: Log in with Imagi-net ID.



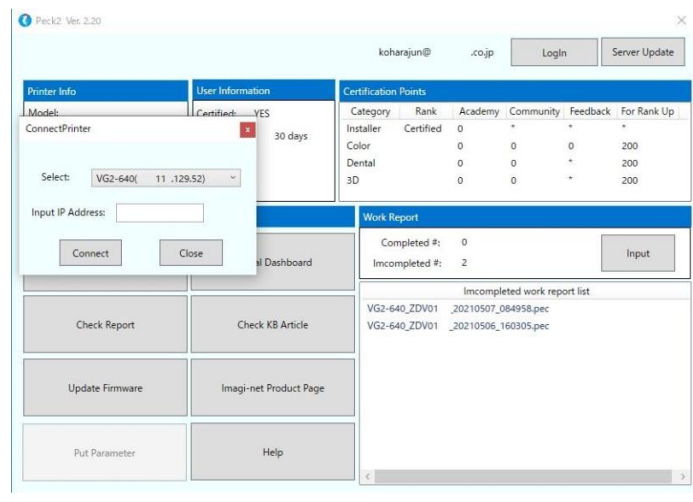
Step 33 / 36

Detail4: Click the [Connect Printer] button.



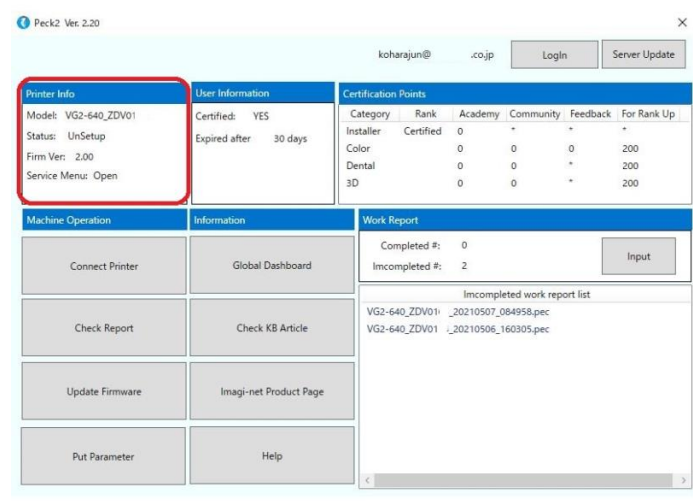
Step 34 / 36

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



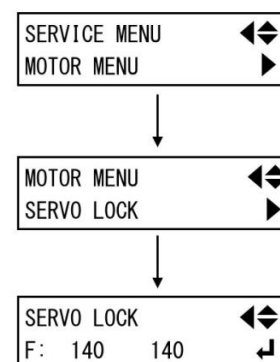
Step 35 / 36

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



Step 36 / 36

Select [SERVICE MENU] > [MOTOR MENU] > [SERVO LOCK] > [F]. Rotate the grit roller by hand, and then confirm that the value on the LCD changes according to the grit roller rotation.



MG-640300 Linear Encoder Board Replacement

MG-640300 Linear Encoder Board Replacement Information

Step 1 / 4

- This adjustment is for adjusting the relative distance between the limit sensor and the capping position, and also detecting the distance from the cut down position to the limit sensor after completing the adjustment.
- When the limit position is not correctly set, it may cause some problems such as a head capping error and a print-head carriage lock error. Also, when the cutter-down position is not correct, there will be some problems such as a cutter down error when separating the sheet.



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



Step 3 / 4

Typical work time

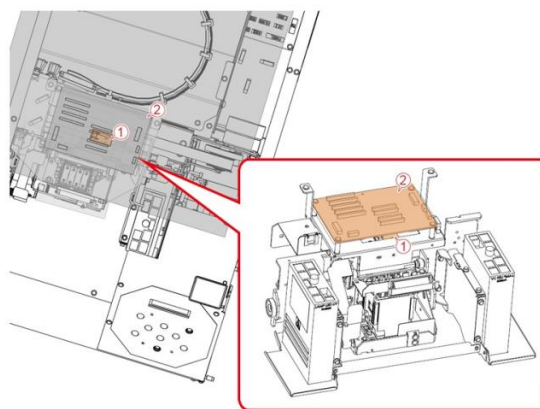
作業時間/Typical work time

作業内容/Contents of work	時間/Time
リニアエンコーダーボード交換 Linear encoder board replacement	20 min.
リニアエンコーダー位置設定 Linear encoder setup	5 min.

Step 4 / 4

Linear encoder board

概要図/Outline Diagram

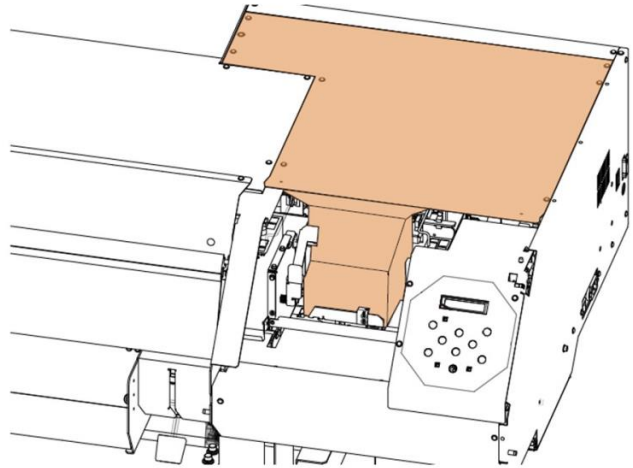


MG-640300 Linear Encoder Board Replacement

MG-640300 Linear Encoder Board Replacement Procedure

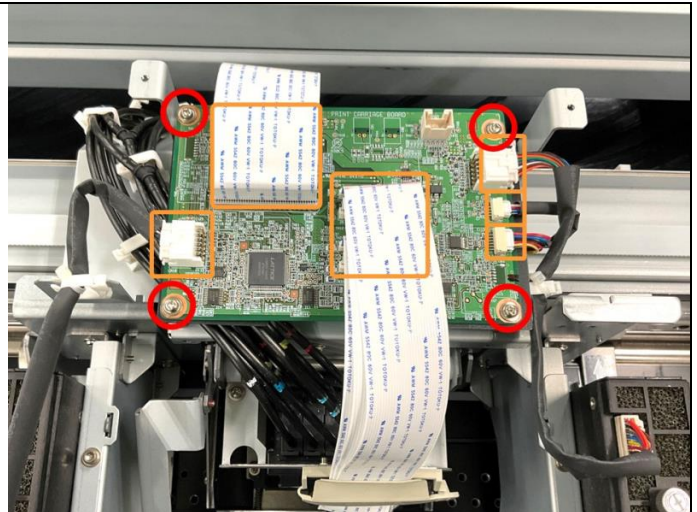
Step 1 / 10

Cover that needs to be removed



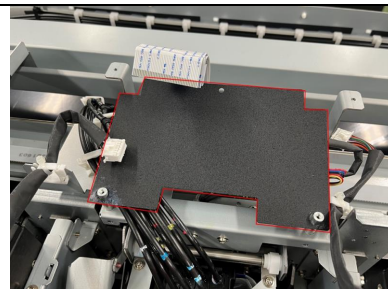
Step 2 / 10

Remove the connectors and ribbon cables from the print carriage board. And remove the print carriage board.



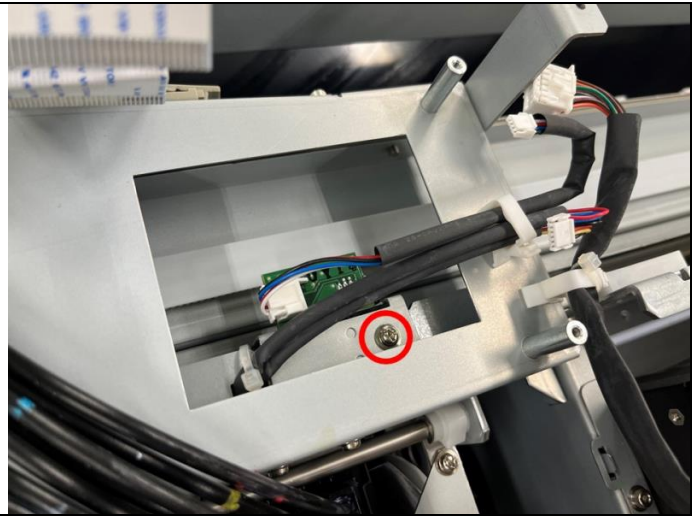
Step 3 / 10

Remove the black cover.



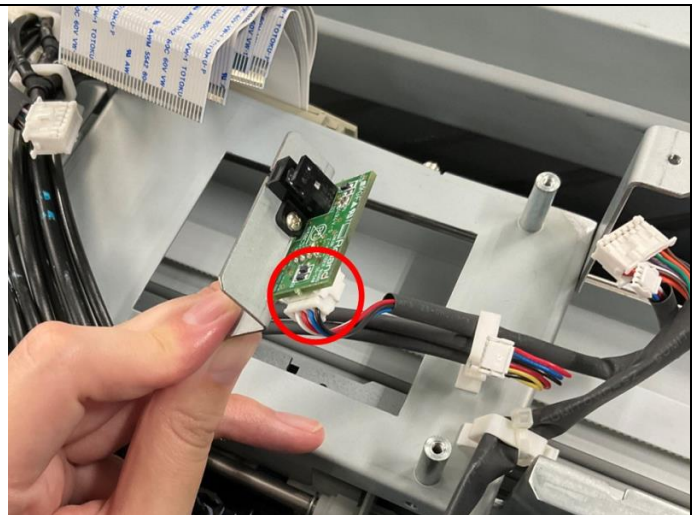
Step 4 / 10

Remove the linear encoder board along with the stay.



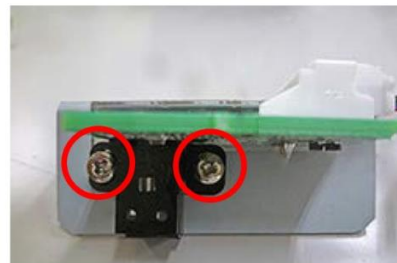
Step 5 / 10

Unplug the connector from the linear encoder board.



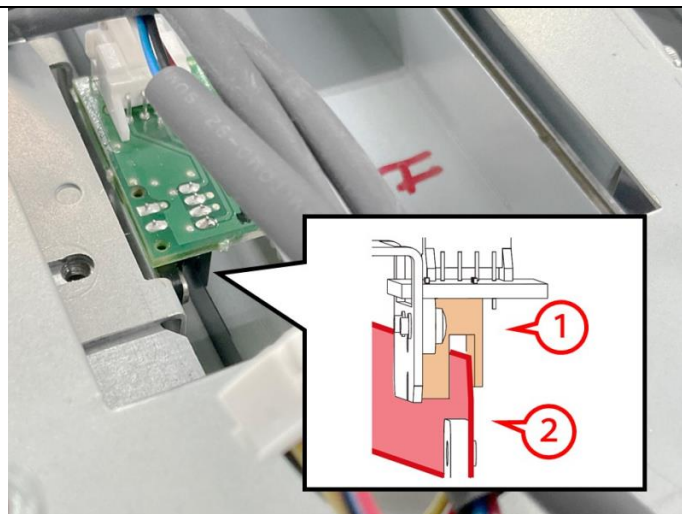
Step 6 / 10

Remove the linear encoder board from the stay. Then, attach a new linear encoder board to the stay.



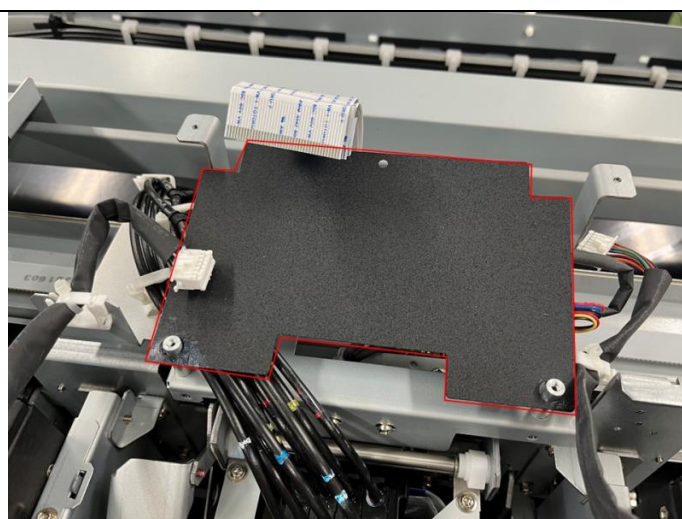
Step 7 / 10

Attach the linear encoder board together with the stay. Make sure that the encoder scale does not make contact with the encoder sensor. Also, check that the encoder scale is in between the slit of the encoder sensor.



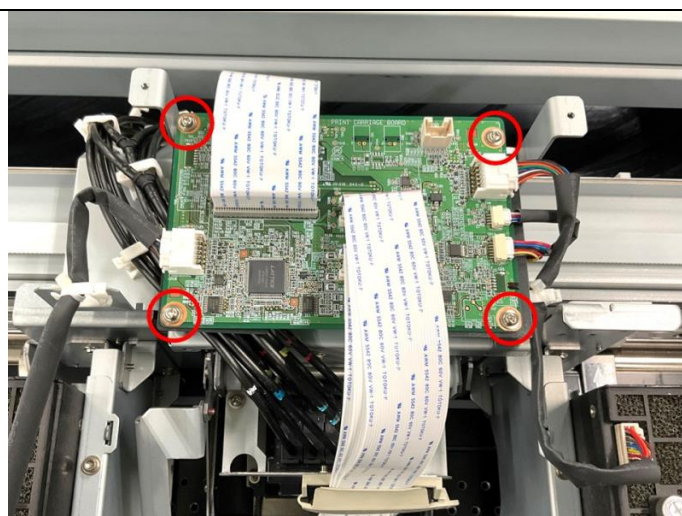
Step 8 / 10

Attach the black cover. Align the positions of the screw holes of black cover under the print carriage board with the holes of the print carriage board, and then tighten the screws.



Step 9 / 10

Attach the print carriage board.



Step 10 / 10

Perform "Linear Encoder Setup".



次の手順

リニアエンコーダー位置設定

Next Step

Linear encoder position setting

MG-640300 Encoder Scale Replacement

MG-640300 Encoder Scale Replacement Information

Step 1 / 4

<Necessary adjustment after
replacement> Linear Encoder Setup



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



Step 3 / 4

Typical work time

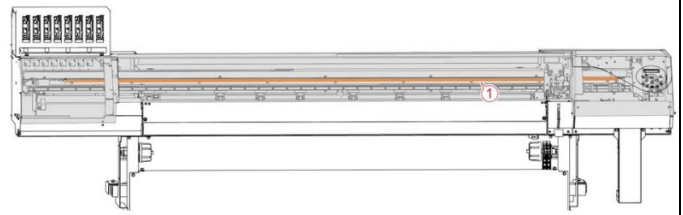
作業時間/Typical work time

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

Step 4 / 4

Encoder scale

概要図/Outline Diagram

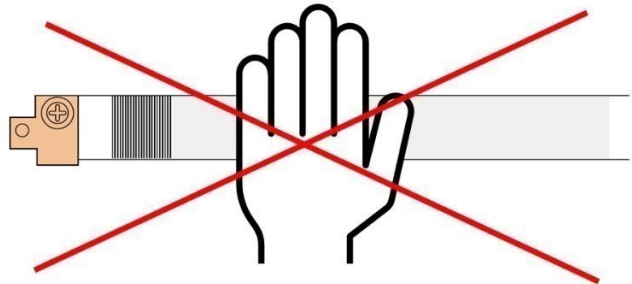


MG-640300 Encoder Scale Replacement

MG-640300 Encoder Scale Replacement Procedure

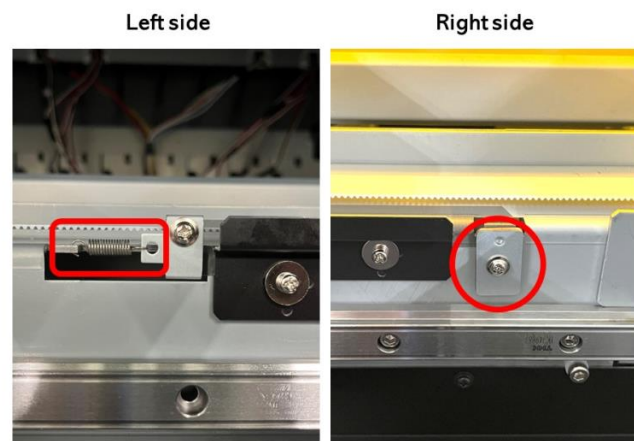
Step 1 / 7

Make sure not to scratch or get grease on the encoder scale when attaching it. Do not touch the surface of the encoder scale.



Step 2 / 7

Remove the encoder scale by removing the plate holding the encoder scale at its right end and the spring on its left end.



Step 3 / 7

Remove the spring plate from the encoder scale and fasten it to the end of the new encoder scale that does not



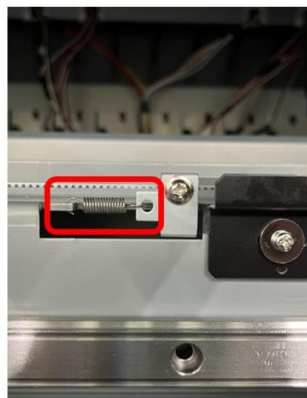
have a clipped corner.



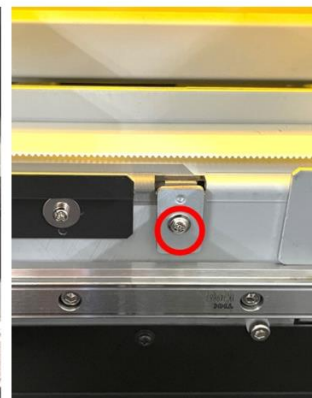
Step 4 / 7

Put the encoder scale in between the encoder plate and the guide rail. Then, fasten the right end with the plate, and hook up the spring on the left end. Make sure that the encoder scale is in place.

Left side

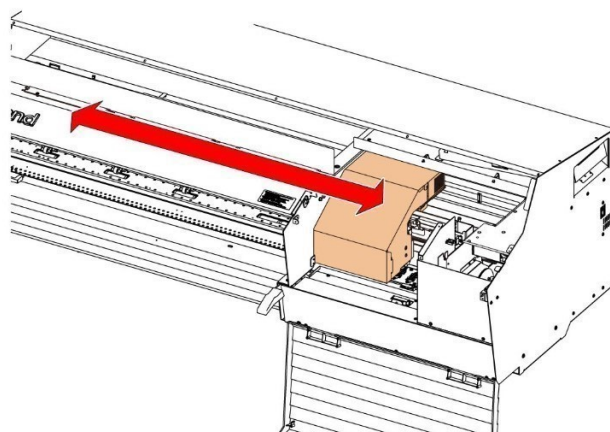


Right side



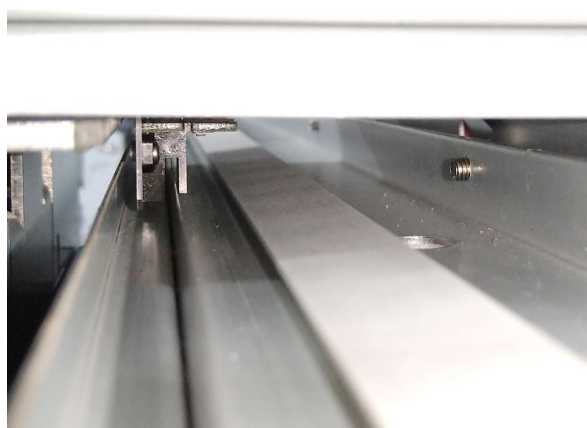
Step 5 / 7

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



Step 6 / 7

Detail1: Move the print-head carriage across the whole width of the machine manually and confirm that the encoder scale doesnot make contact with the encoder sensor. Also, check that the encoder scale is in between the slit of



the encoder sensor.



Step 7 / 7

Perform "Linear Encoder Setup".



次の手順

リニアエンコーダー位置設定

Next Step

Linear encoder position setting

MG-640300 Carriage Belt Replacement

MG-640300 Carriage Belt Replacement Information

Step 1 / 5

<Adjustment after replacement> □Belt

Tension Adjustment □Belt Position

Adjustment □Limit position

initialization □Check cutting quality



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3.0mm 3.0 mm hexagonal wrench	
テープ Tape	

Step 3 / 5

Special tools

特殊治具/Special Tools

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

Step 4 / 5

Typical work time

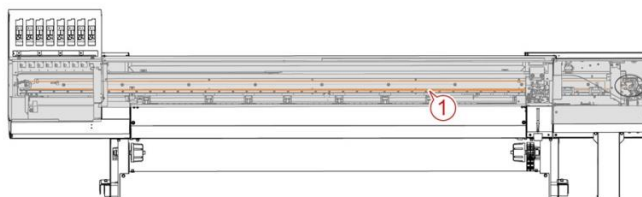
作業時間/Typical work time

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

Step 5 / 5

Carriage belt

概要図/Outline Diagram

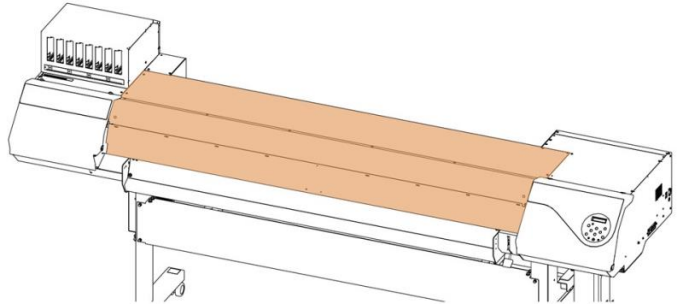


MG-640300 Carriage Belt Replacement

MG-640300 Carriage Belt Replacement Procedure

Step 1 / 31

Cover that needs to be removed



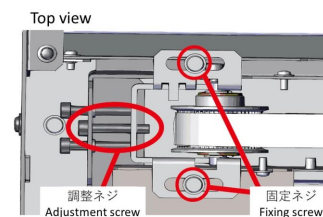
Step 2 / 31

Disconnect the tool carriage from the print-head carriage.



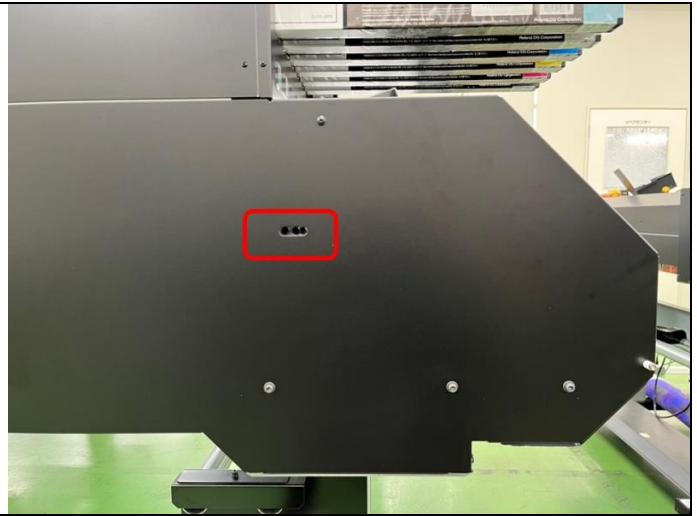
Step 3 / 31

Loosen the fixing screws located at the left end of the belt. Then, loosen the adjustment screw.



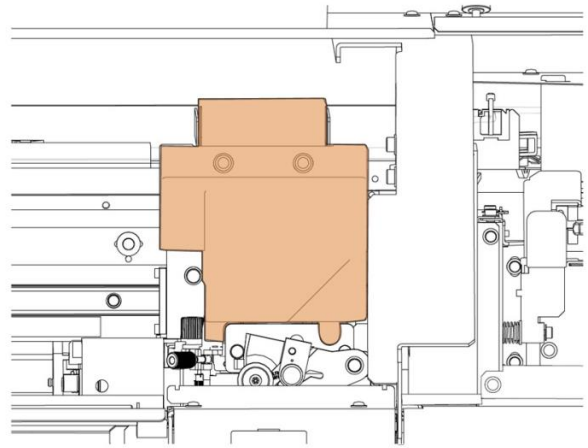
Step 4 / 31

Detail1: The adjustment screw is accessible from the left side.



Step 5 / 31

Remove the tool carriage cover.



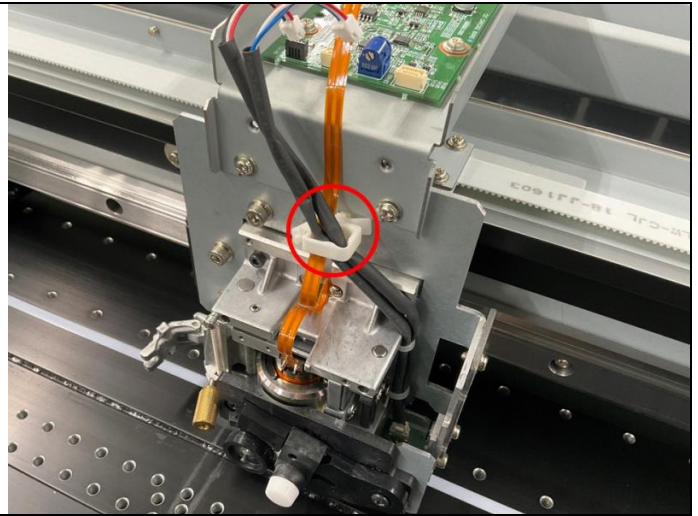
Step 6 / 31

Unplug the solenoid cable and connectors.



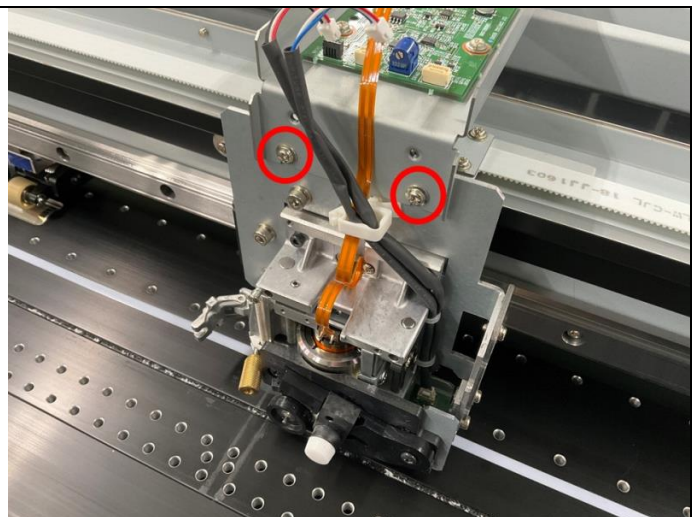
Step 7 / 31

□□□□□□□□□□□□□□□□



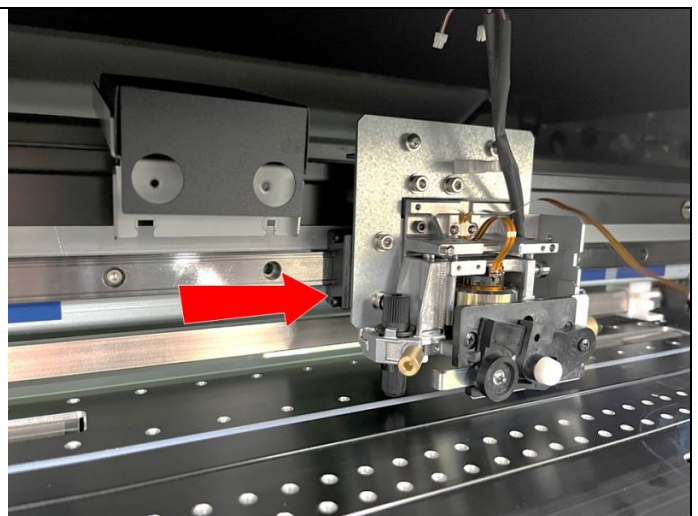
Step 8 / 31

Loosen the screws, and slide and remove the stay.



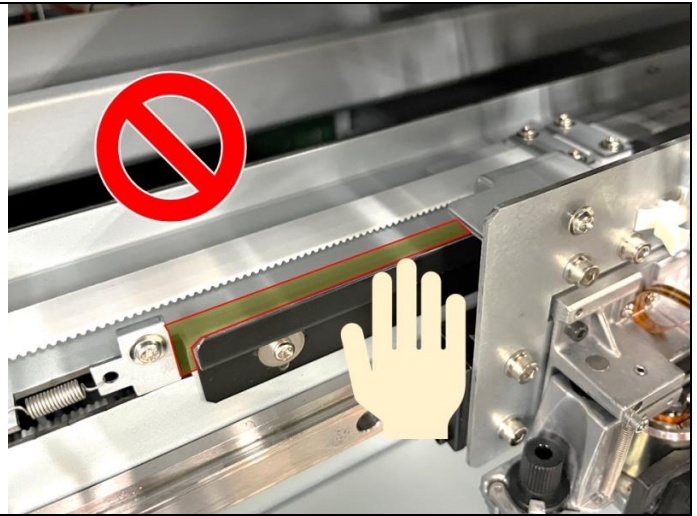
Step 9 / 31

Slide the tool carriage away from the stay.



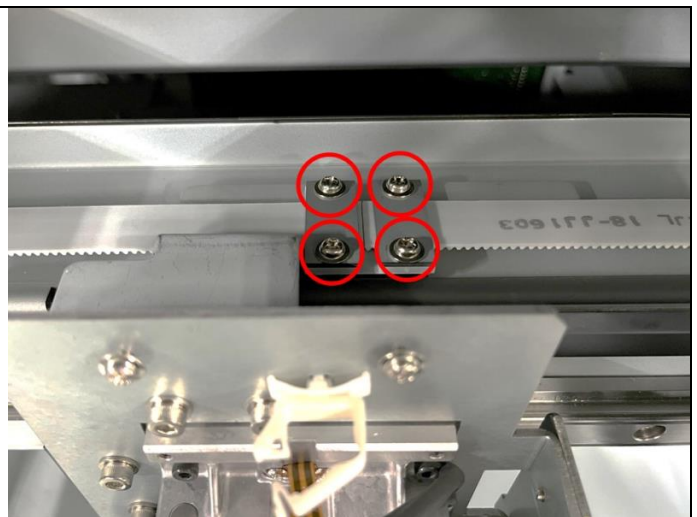
Step 10 / 31

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



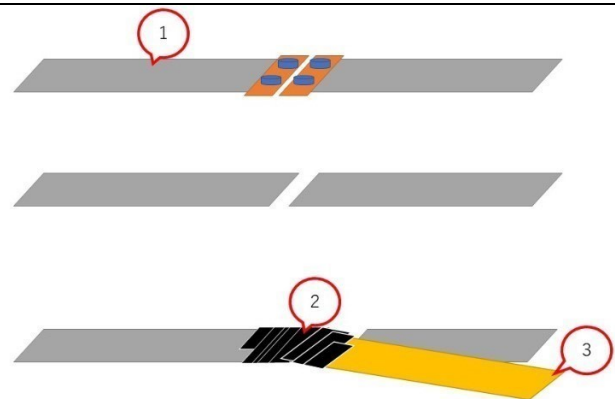
Step 11 / 31

Remove the carriage belt.



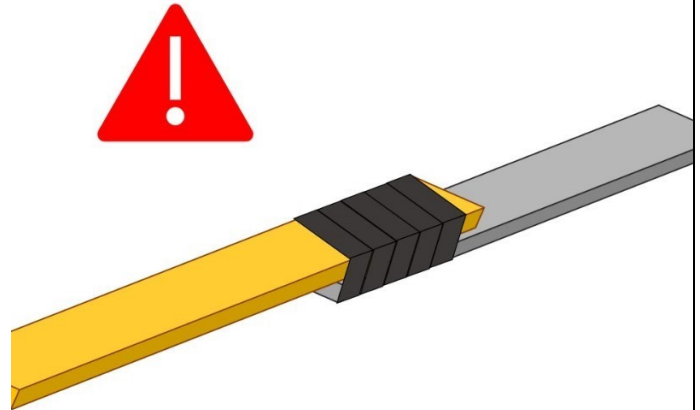
Step 12 / 31

Remove the carriage belt from the stay. Then, connect the new carriage belt to the old carriage belt using scotch tape. (1.Old carriage belt, 2.Scotch tape, 3.New carriage belt)



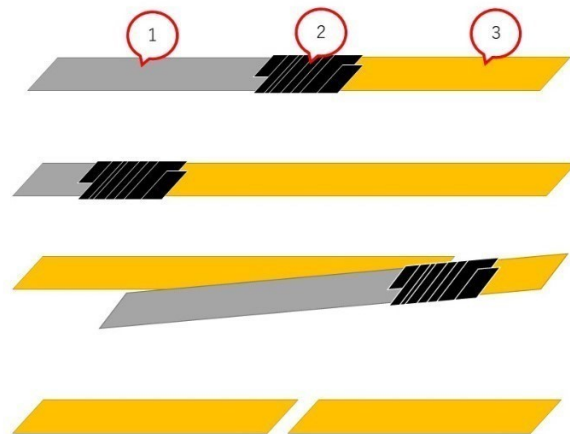
Step 13 / 31

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



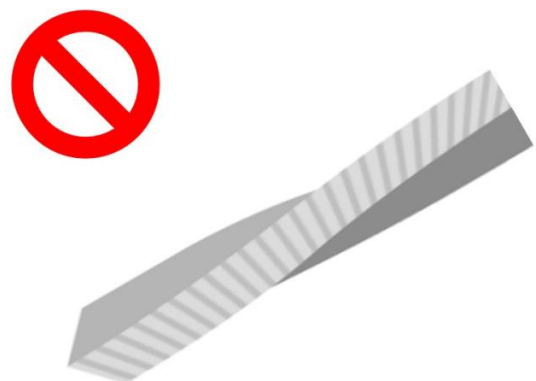
Step 14 / 31

Slowly pull the end of the old belt that is not connected to the new belt until the new belt reaches the belt stay. (1.Old carriage belt, 2.Scotch tape, 3.New carriage belt)



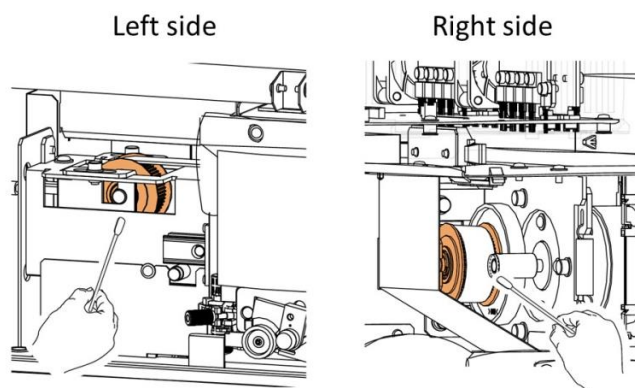
Step 15 / 31

Caution! Check that the belt is not twisted.



Step 16 / 31

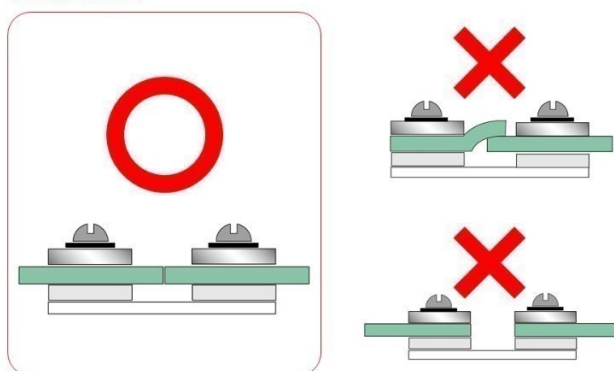
Apply grease to the pulleys. (Grease: FLOIL G-902 10ML_02, Volume: as needed)



Step 17 / 31

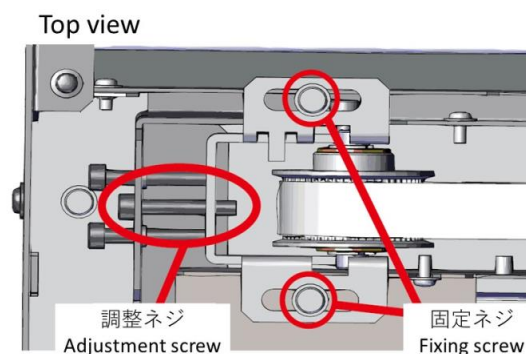
Peel off the tape, and then tighten two screws as shown in the figure to fasten both ends of the carriage belt to the belt holder with the plastic plate and the metal plate. When fastening the carriage belt, make sure the ends of the carriage belt are not overlapped. Be careful with the orientation in which you affix the plastic plate and the order in which you affix the plates.

CAUTION



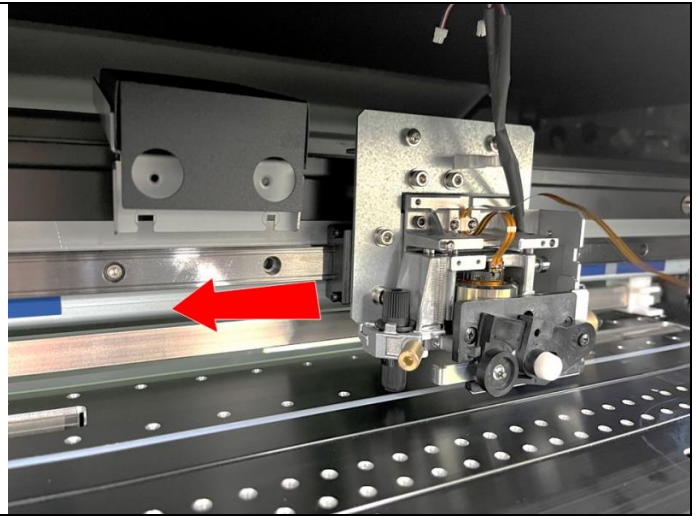
Step 18 / 31

Tighten the adjustment screw to remove the slack in the belt. Then, tighten the fixing screws. Do not overtighten the screws.



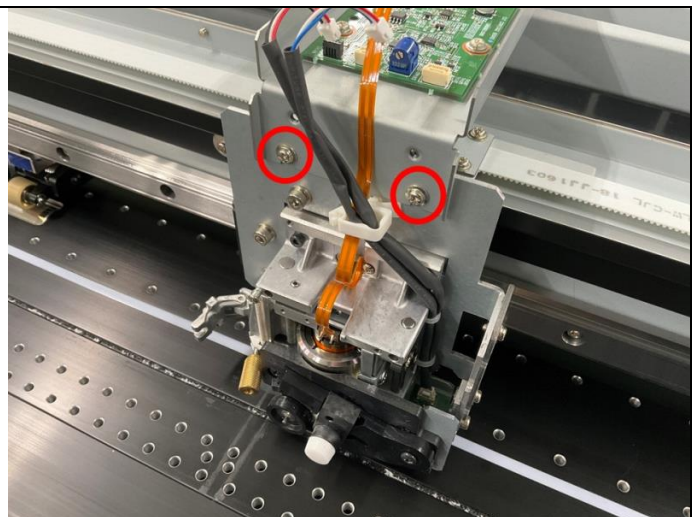
Step 19 / 31

Slide the tool carriage back to the original position, and align the screws on the tool carriage and the screw holes of the stay.



Step 20 / 31

Attach the stay.



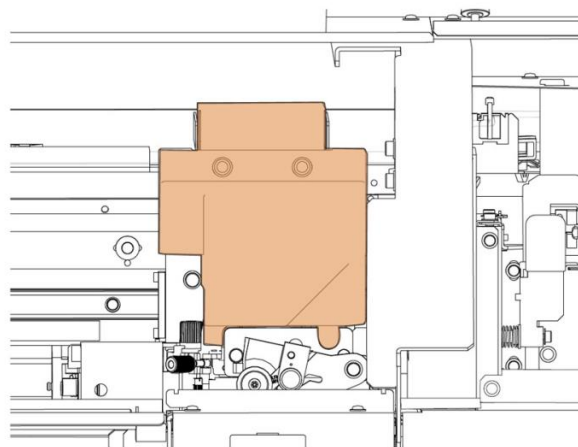
Step 21 / 31

Plug the solenoid cable and connectors into the tool carriage board.



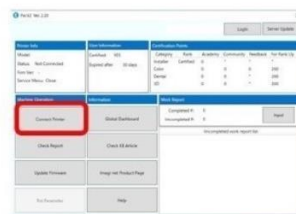
Step 22 / 31

Attach the tool carriage cover.



Step 23 / 31

Attach the covers. Then turn on the power switch, and start Peck2 to enter the service mode.



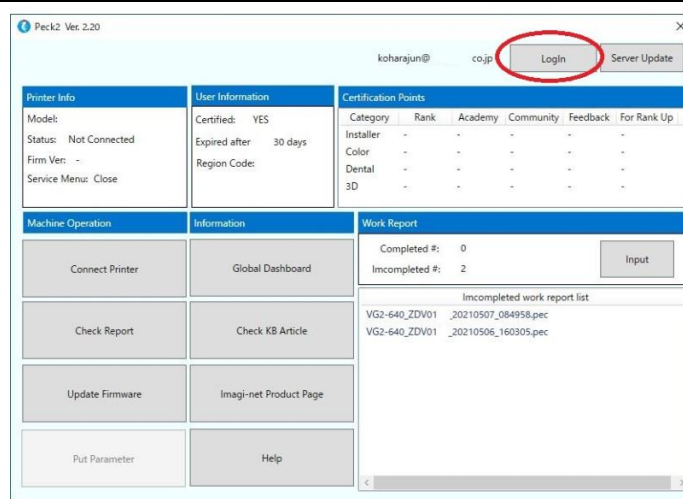
Step 24 / 31

Detail1: Start Peck2.



Step 25 / 31

Detail2: Click the [Login] button.



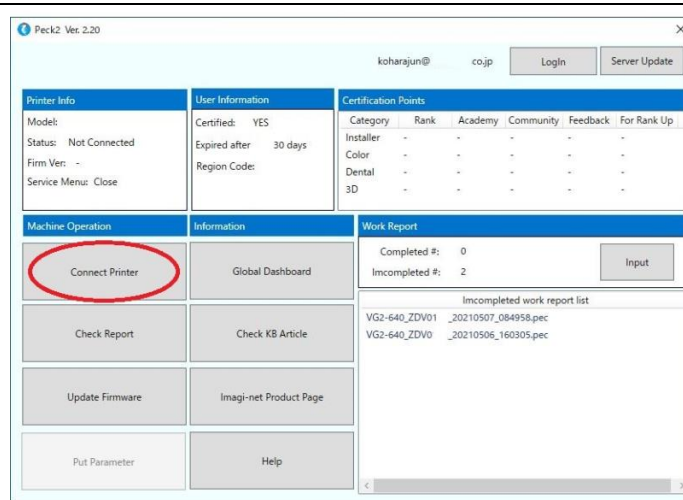
Step 26 / 31

Detail3: Log in with Imagi-net ID.



Step 27 / 31

Detail4: Click the [Connect Printer] button.



Step 28 / 31

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

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
ConnectPrinter			30 days	Installer	Certified	0	*	*	*
Select:	VG2-640(11 .129.52)			Color		0	0	0	200
Input IP Address:				Dental		0	0	*	200
				3D		0	0	*	200
Connect	Close								

Work Report

Completed #: 0

Imcompleted #: 2

Input

Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Check Report Check KB Article

Update Firmware Imagi-net Product Page

Put Parameter Help

Step 29 / 31

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

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

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

Machine Operation Information Work Report

Connect Printer Global Dashboard

Check Report Check KB Article

Update Firmware Imagi-net Product Page

Put Parameter Help

Completed #: 0

Imcompleted #: 2

Input

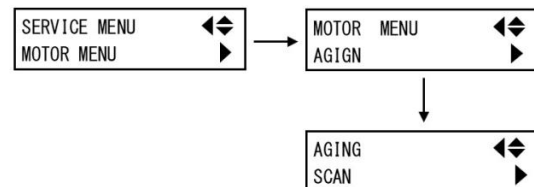
Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Step 30 / 31

Perform [SERVICE MENU]>[MOTOR MENU]>[AGING] and move the print head carriage across the whole width of the guide rail several times to remove slack in the carriage belt.



Step 31 / 31

Perform the "Belt tension adjustment",
"Belt position adjustment" and "Limit
position & Cut down position
initialization".



次の手順

ベルトテンション調整
ベルト位置調整
リミット&カッターダウン位置調整

Next Step

Belt tension adjustment
Belt position adjustment
Limit position & Cut down position initialization

MG-640300 Cartridge Board Replacement

MG-640300 Cartridge Board 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



Step 2 / 3

Typical work time

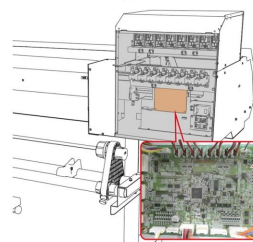
作業時間/Typical work time

作業内容/Contents of work	時間/Time
カートリッジボード交換 Cartridge board replacement	15 min.

Step 3 / 3

Cartridge board

概要図/Outline Diagram

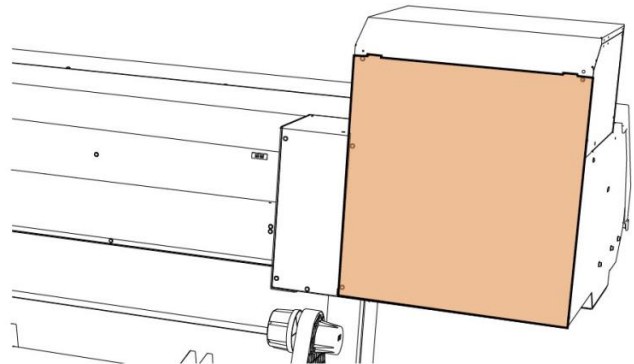


MG-640300 Cartridge Board Replacement

MG-640300 Cartridge Board Replacement Procedure

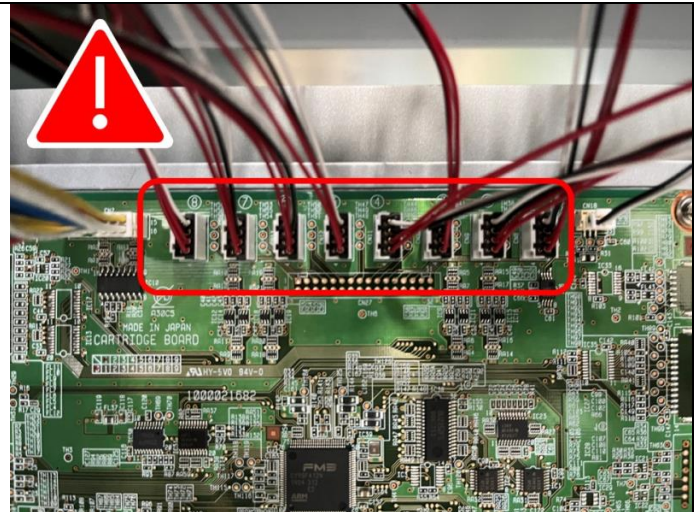
Step 1 / 4

Remove the cover.



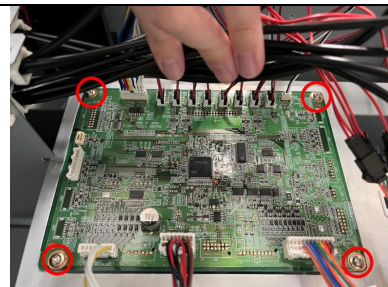
Step 2 / 4

When you remove the cables, make a note which cable is connected to which cartridge so as not to connect a wrong cable mistakenly when you attach them.



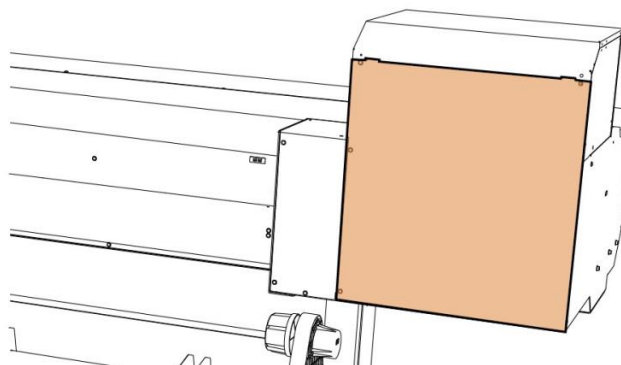
Step 3 / 4

Remove the cartridge board, and replace it with a new one.



Step 4 / 4

Attach the cover.



MG-640300 Tool Carriage Replacement

MG-640300 Tool Carriage Replacement Information

Step 1 / 4

Adjustment after replacement -Limit &
cutter down position initialization -Tool
height adjustment -Tool pressure
adjustment -Crop Cut Position
Adjustment [CUTTING MENU] > [
CROP-CUT ADJ.] -Print/Cut position
adjustment [CUTTING MENU] > [
PRINT-CUT ADJ.]



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 2.5 mm hexagonal wrench	
ニッパー Nippers	
サブタイ Cable tie	

Step 3 / 4

Typical work time

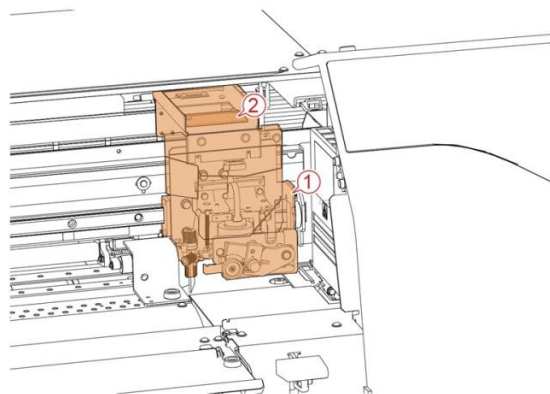
作業時間/Typical work time

作業内容/Contents of work	時間/Time
ツールキヤリッジ交換 Tool carriage replacement	20 min.

Step 4 / 4

概要図/Outline Diagram

1. Tool carriage, 2. Tool carriage board

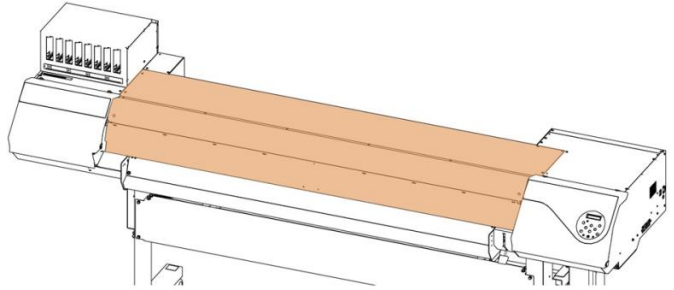


MG-640300 Tool Carriage Replacement

MG-640300 Tool Carriage Replacement Procedure

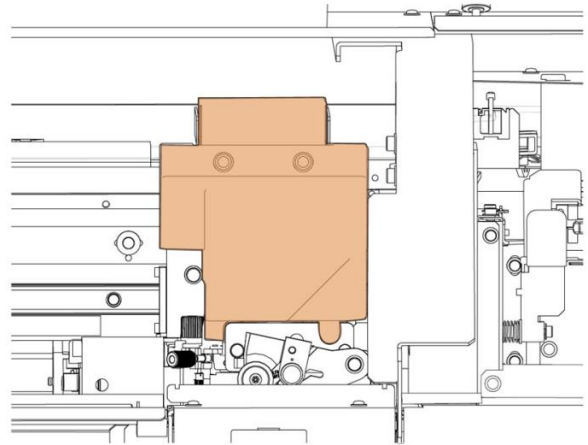
Step 1 / 18

Cover That Needs to Be Removed 1



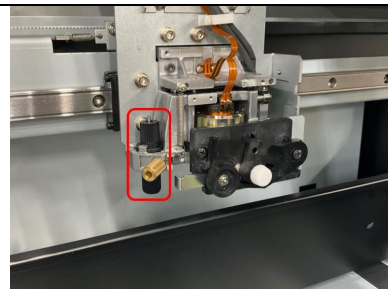
Step 2 / 18

Cover That Needs to Be Removed 2



Step 3 / 18

Remove the blade holder.



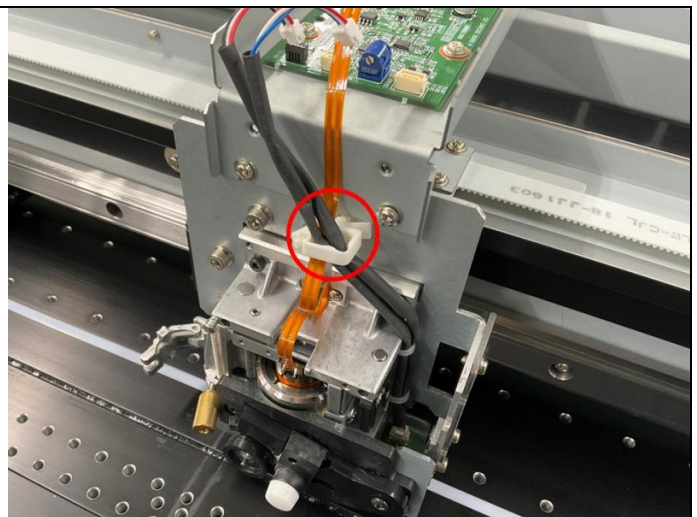
Step 4 / 18

Unplug the solenoid cables and connectors from the tool carriage board.



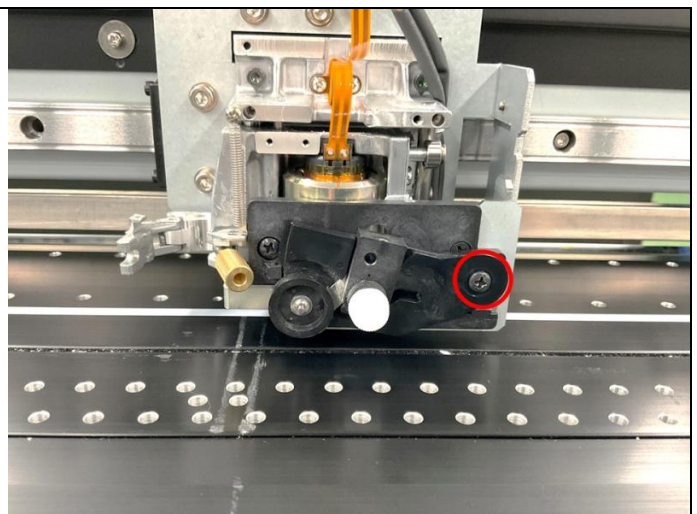
Step 5 / 18

Unfasten the clamp to release the cable.



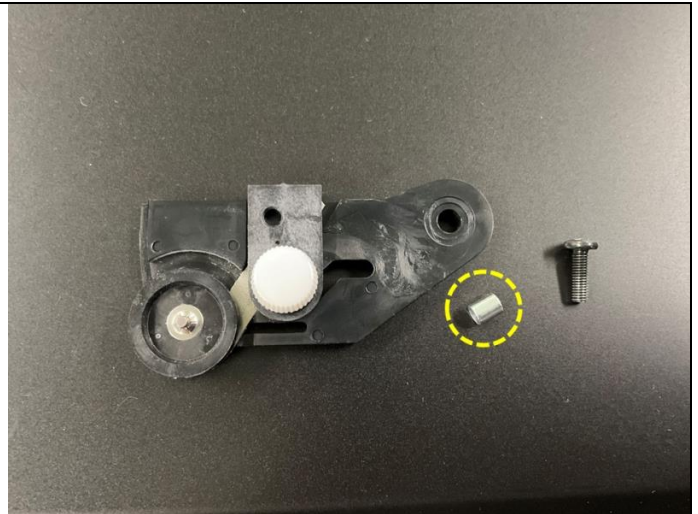
Step 6 / 18

Remove the sheet cutter holder.



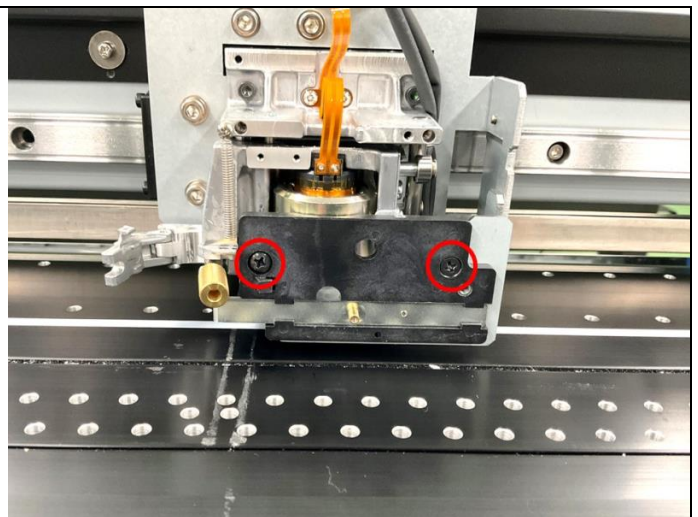
Step 7 / 18

The sheet cutter holder has a sleeve. Be careful not to lose it.



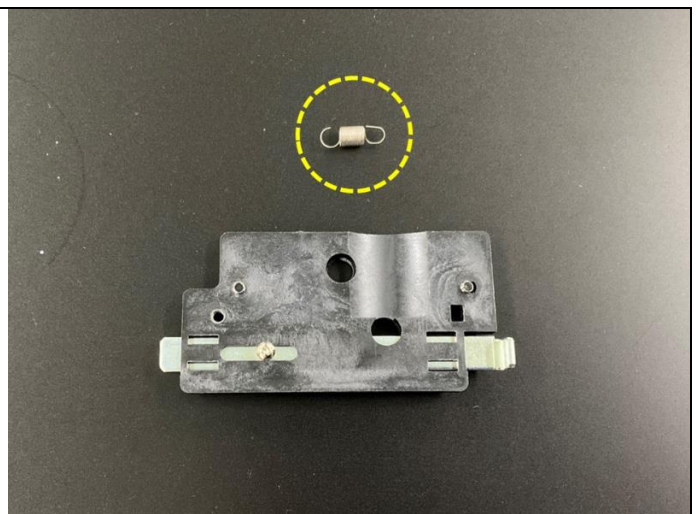
Step 8 / 18

Remove the sheet cutter base.



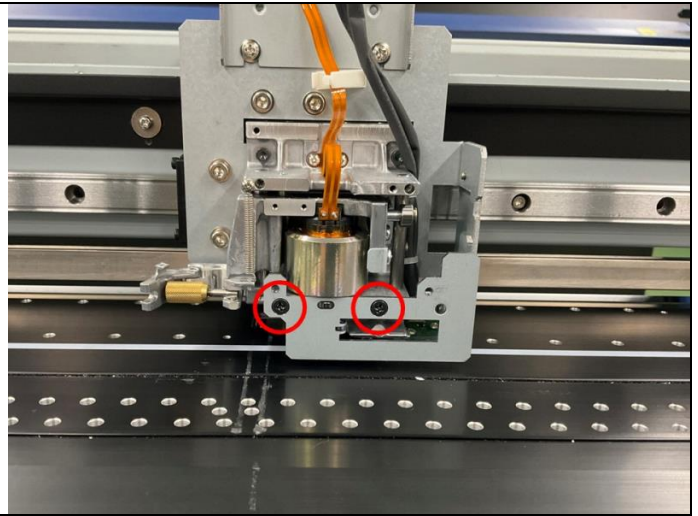
Step 9 / 18

The base has a spring attached on the back side. Be careful not to lose it.



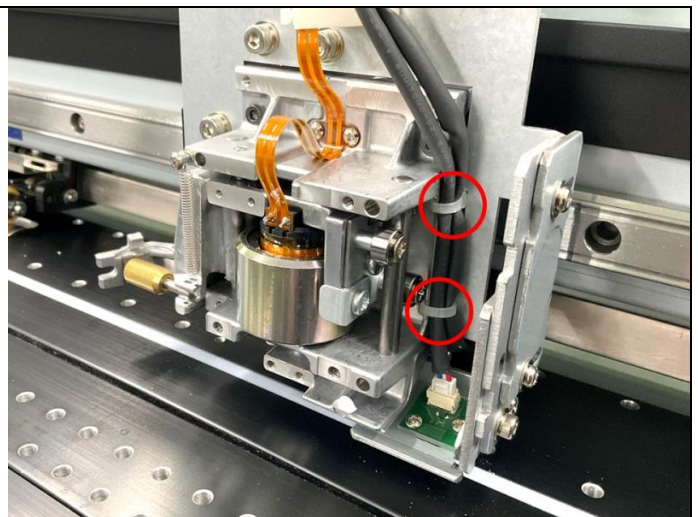
Step 10 / 18

Remove the screws and the stay.



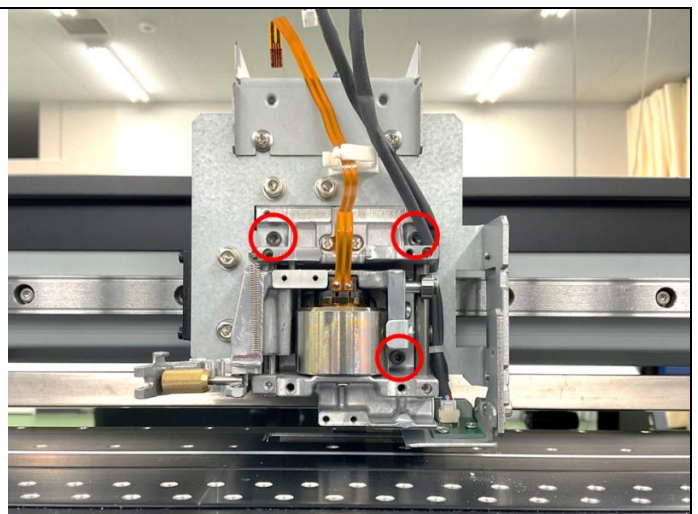
Step 11 / 18

Cut the cable ties.



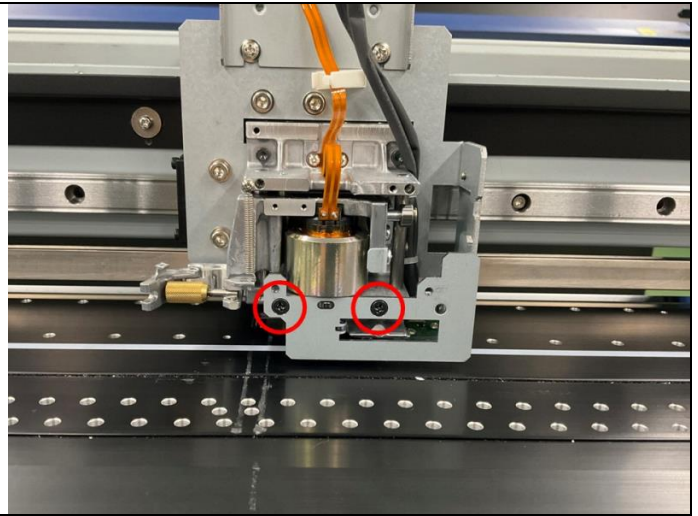
Step 12 / 18

Remove the tool carriage and replace it with a new one. Before attaching the tool carriage, fix the cable ties.



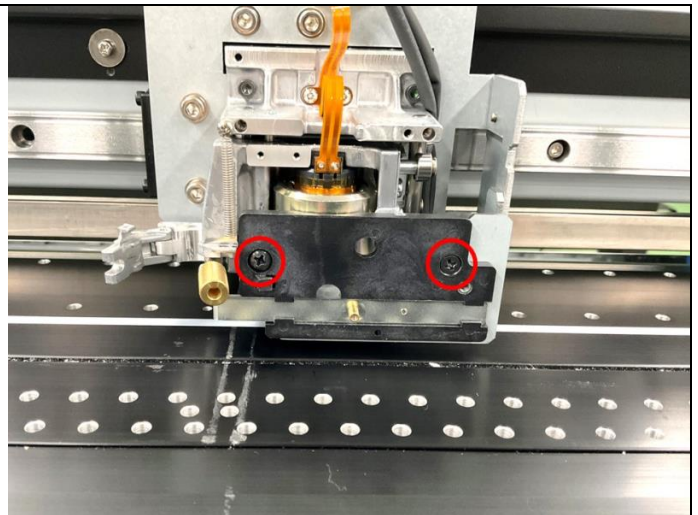
Step 13 / 18

Attach the stay.



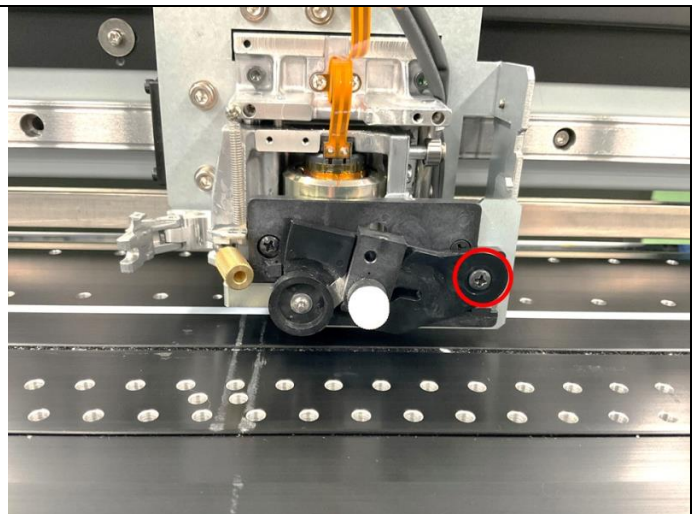
Step 14 / 18

Attach the sheet cutter base.



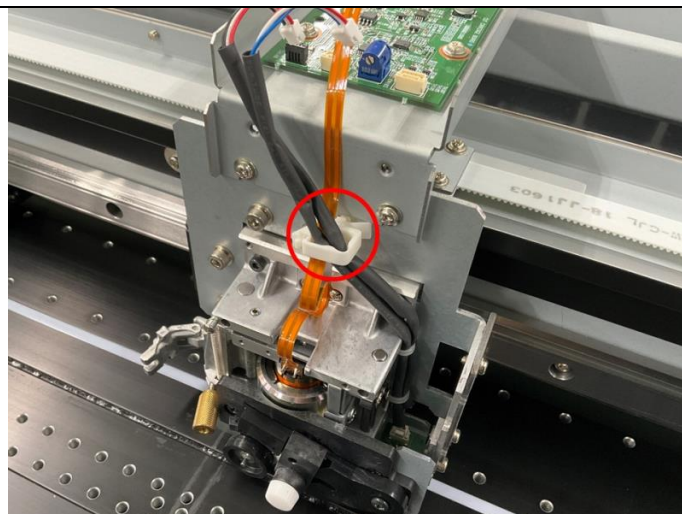
Step 15 / 18

Attach the sheet cutter holder.



Step 16 / 18

Bundle the cables with the clamp.



Step 17 / 18

Plug the cables to the tool carriage board.



Step 18 / 18

Attach the covers. Perform Limit Position & Cut Down Position Initialization, Tool Height Adjustment, Tool Pressure Adjustment, Crop/cut adjustment and Print/cut position adjustment.



次の手順

リミット & カッターダウン位置調整
ツール高さ調整
筆圧調整
クロップカット調整
プリントカット調整

Next Step

Limit position & cut down position initialization
Tool height adjustment
Tool pressure adjustment
Crop/cut adjustment
Print/cut adjustment

MG-640300 UV Lamp Replacement

MG-640300 UV Lamp 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
2.5 mm hexagonal wrench



Step 2 / 3

Typical Work Time

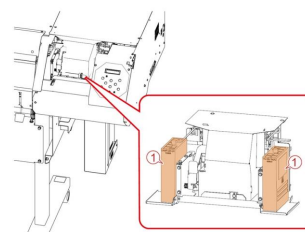
作業時間/Typical work time

作業内容/Contents of work	時間/Time
UVランプ交換 (1個) UV lamp replacement (1 UV lamp)	10 min.
UVランプチェック UV lamp check	5 min.

Step 3 / 3

UV lamp

概要図/Outline Diagram

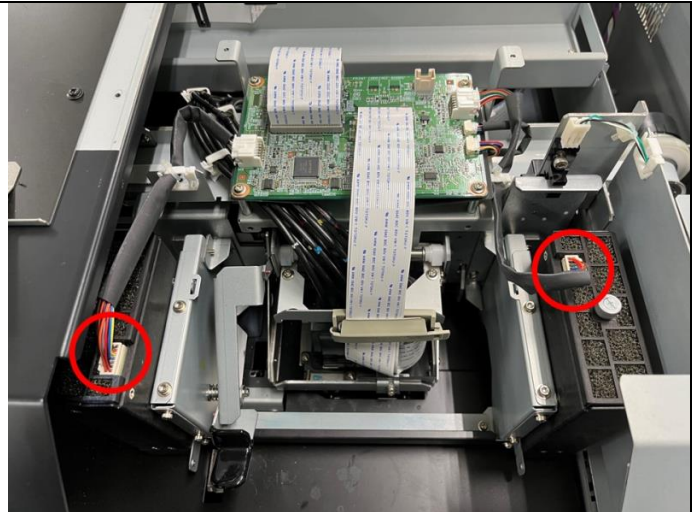


MG-640300 UV Lamp Replacement

MG-640300 UV Lamp Replacement Procedure

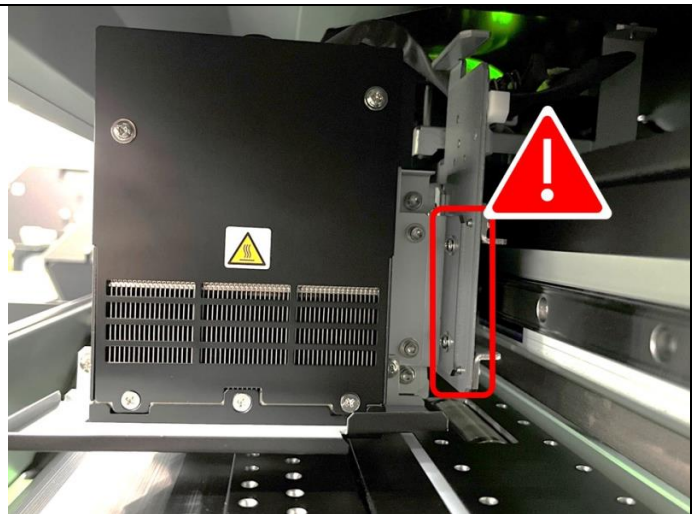
Step 1 / 16

Unplug the connector from the UV lamp.



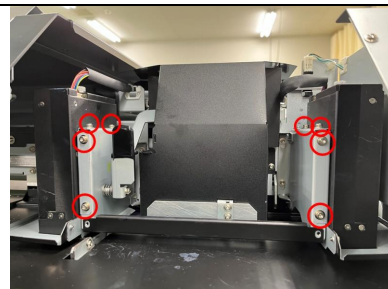
Step 2 / 16

Do not touch the screws shown in the figure.



Step 3 / 16

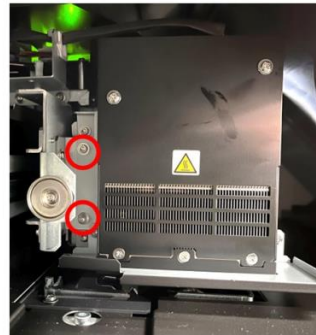
Remove the UV lamp together with the plate.



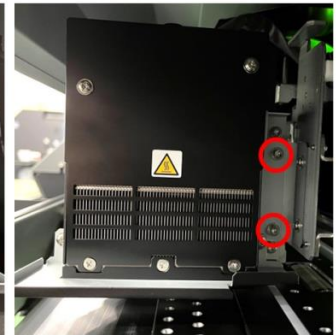
Step 4 / 16

Remove the screws on the side and remove the UV lamp.

Left side



Right side



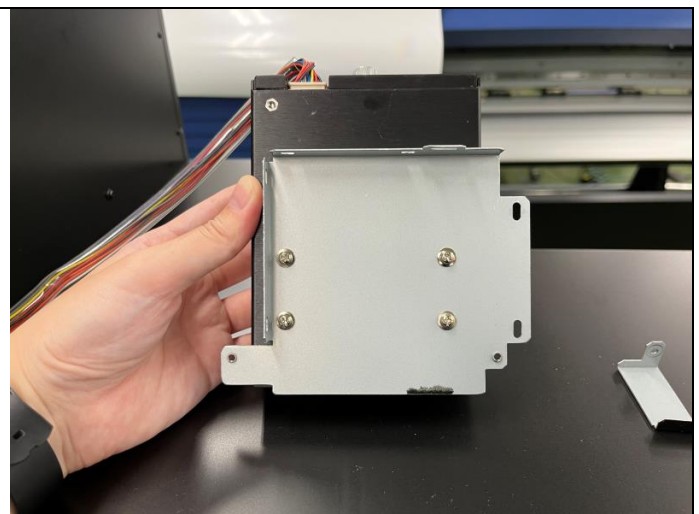
Step 5 / 16

Remove the plate screws and remove the UV lamp.



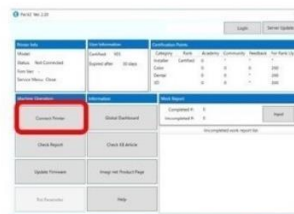
Step 6 / 16

Attach the new UV lamp to the plate, and attach them to the machine.



Step 7 / 16

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



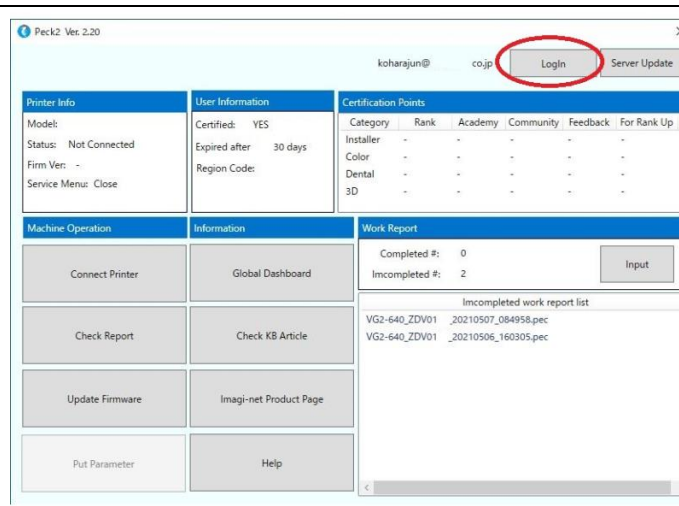
Step 8 / 16

Detail1: Start Peck2.



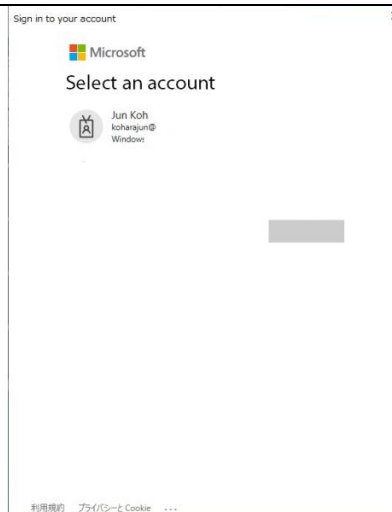
Step 9 / 16

Detail2: Click the [Login] button.



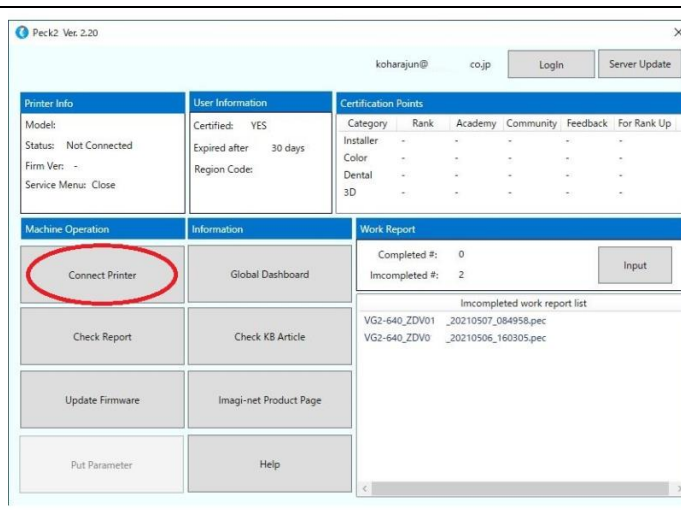
Step 10 / 16

Detail3: Log in with Imagi-net ID.



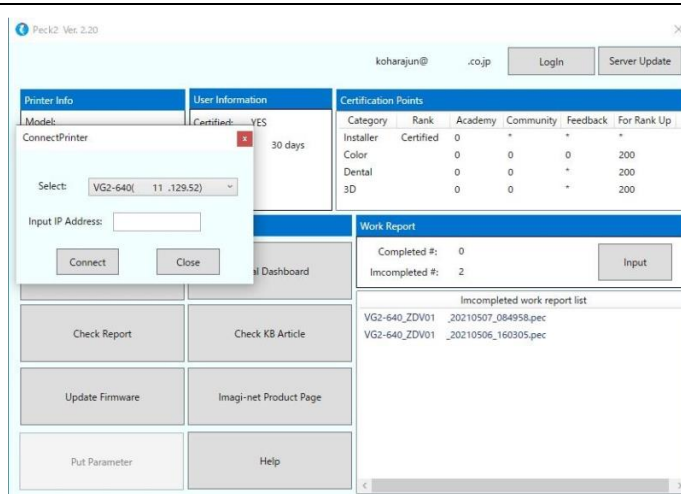
Step 11 / 16

Detail4: Click the [Connect Printer] button.



Step 12 / 16

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



Step 13 / 16

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

Peck2 Ver. 2.20

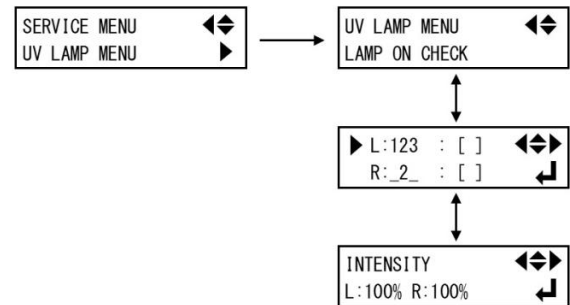
koharajun@ .co.jp Login Server Update

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

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

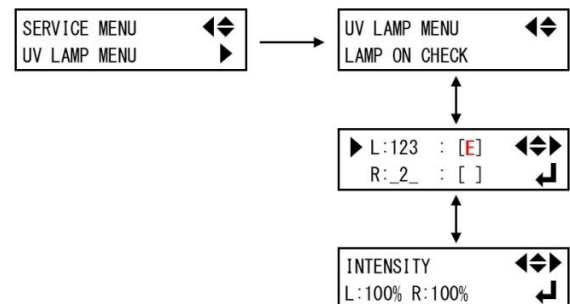
Step 14 / 16

Perform UV lamp check.



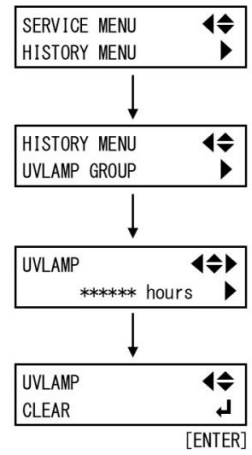
Step 15 / 16

Detail1: If the UV lamp is faulty, [E] will be displayed.



Step 16 / 16

Perform UV lamp count clear.



MG-640300 Print Head Alignment

MG-640300 Print Head Alignment

Information

Step 1 / 4

□ Print head alignment is a necessary setting for proper print quality. Be sure to do this when the machine is installed or when the print head is replaced. If not adjusted, printing defects such as banding, white streaks between bands, gaps between colors, etc. will occur. □ Do not use the take-up device for this adjustment.



Step 2 / 4

Necessary tools

一般ツール/General Tool

白いステッカーメディア White sticker media	
プラスドライバー No.2 No.2 Phillips screwdriver	
六角レンチ 1.5mm 1.5 mm hexagonal wrench	

Step 3 / 4

Special tools

特殊治具/Special Tools

ST-056 TORQUE DRIVER NG	
1000006902 TOOL BIT HEXAGONAL ST-118	
1000005829 TOOL VINYL YE UV RESISTANT ST-113	

Step 4 / 4

Typical work time

作業時間/Typical work time

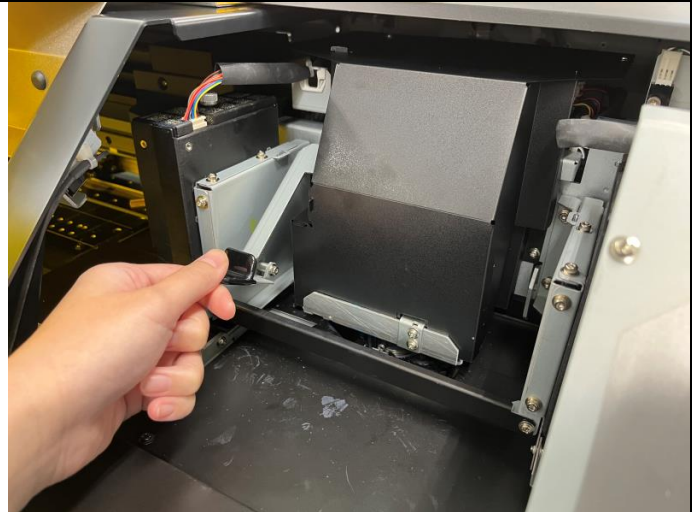
作業内容/Contents of work	時間/Time
ヘッド位置調整 Print head alignment	20 min.

MG-640300 Print Head Alignment

MG-640300 Print Head Alignment Procedure

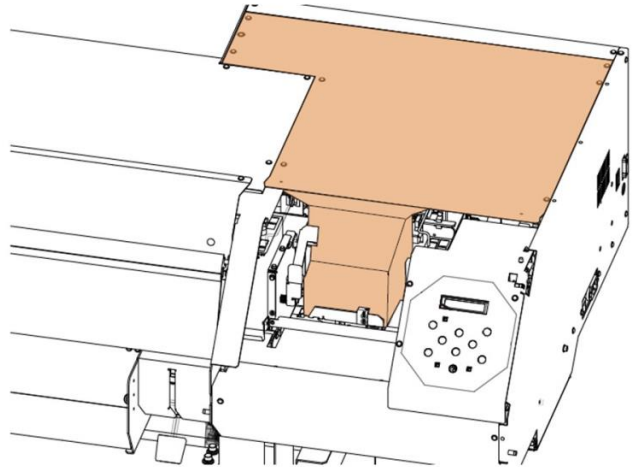
Step 1 / 21

Set the print head height to LOW.



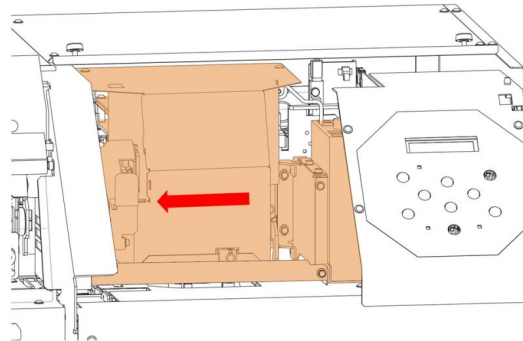
Step 2 / 21

Remove the print-head carriage cover.



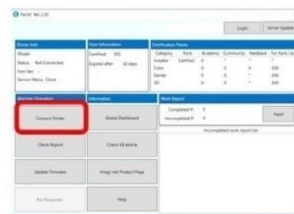
Step 3 / 21

Unlock the print-head carriage.



Step 4 / 21

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



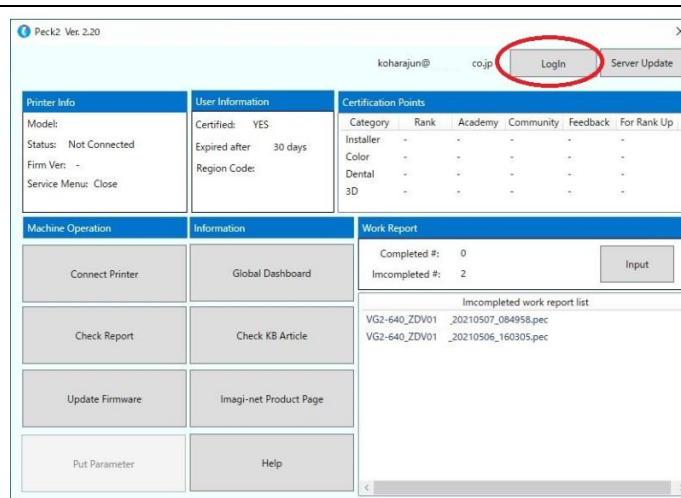
Step 5 / 21

Detail1: Start Peck2.



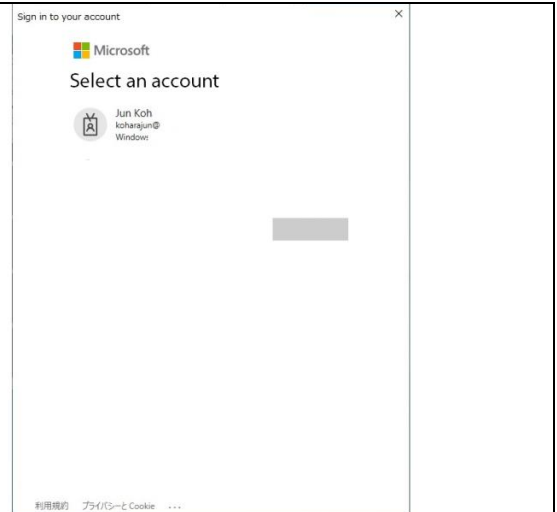
Step 6 / 21

Detail2: Click the [Login] button.



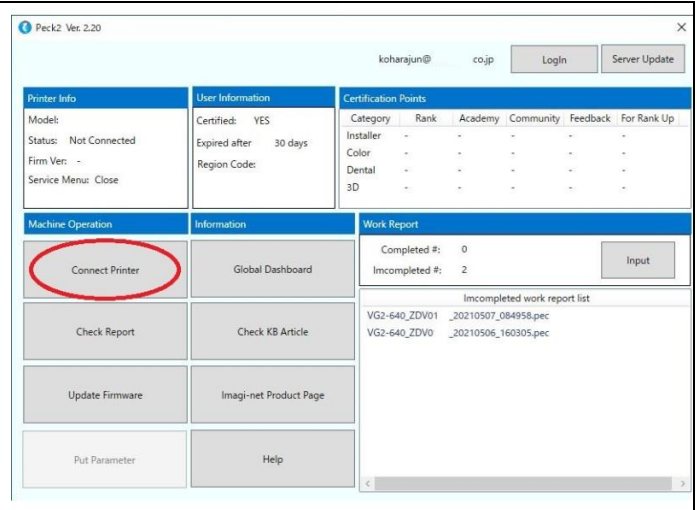
Step 7 / 21

Detail3: Log in with Imagi-net ID.



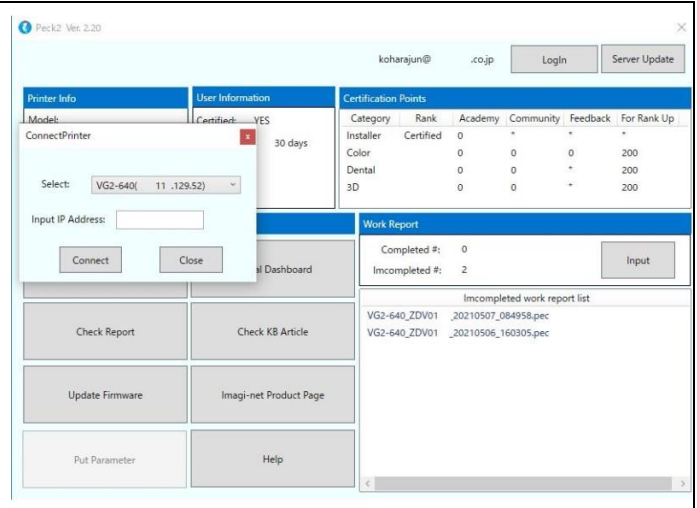
Step 8 / 21

Detail4: Click the [Connect Printer] button.



Step 9 / 21

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



Step 10 / 21

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

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

Printer Info	User Information	Certification Points																														
Model: VG2-640_ZDV01 Status: UnSetup Firm Ver: 2.00 Service Menu: Open	Certified: YES Expired after: 30 days	<table border="1"><thead><tr><th>Category</th><th>Rank</th><th>Academy</th><th>Community</th><th>Feedback</th><th>For Rank Up</th></tr></thead><tbody><tr><td>Installer</td><td>Certified</td><td>0</td><td>*</td><td>*</td><td>*</td></tr><tr><td>Color</td><td></td><td>0</td><td>0</td><td>0</td><td>200</td></tr><tr><td>Dental</td><td></td><td>0</td><td>0</td><td>*</td><td>200</td></tr><tr><td>3D</td><td></td><td>0</td><td>0</td><td>*</td><td>200</td></tr></tbody></table>	Category	Rank	Academy	Community	Feedback	For Rank Up	Installer	Certified	0	*	*	*	Color		0	0	0	200	Dental		0	0	*	200	3D		0	0	*	200
Category	Rank	Academy	Community	Feedback	For Rank Up																											
Installer	Certified	0	*	*	*																											
Color		0	0	0	200																											
Dental		0	0	*	200																											
3D		0	0	*	200																											

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

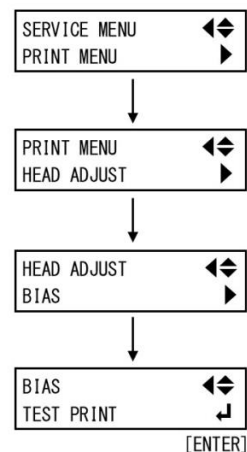
Step 11 / 21

Load the media for adjustment on the machine.



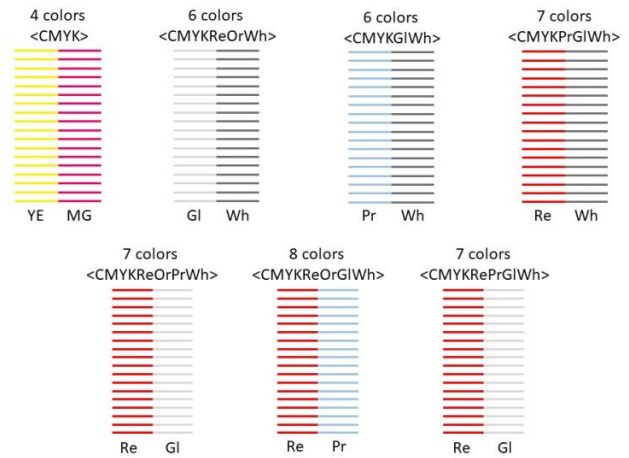
Step 12 / 21

Select [PRINT MENU] > [HEAD ADJUST] > [BIAS/VERTICAL] > [TEST PRINT], and press the [ENTER] key.



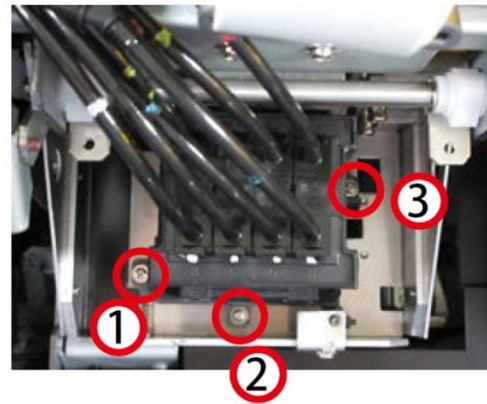
Step 13 / 21

A test pattern is printed. Press the [] key to feed the media forward so that you can see the test pattern well. Press the [] key to move it back to the original position. Use silver media or apply shavings of mechanical pencil lead during adjustment for colors that are difficult to see such as Gl.



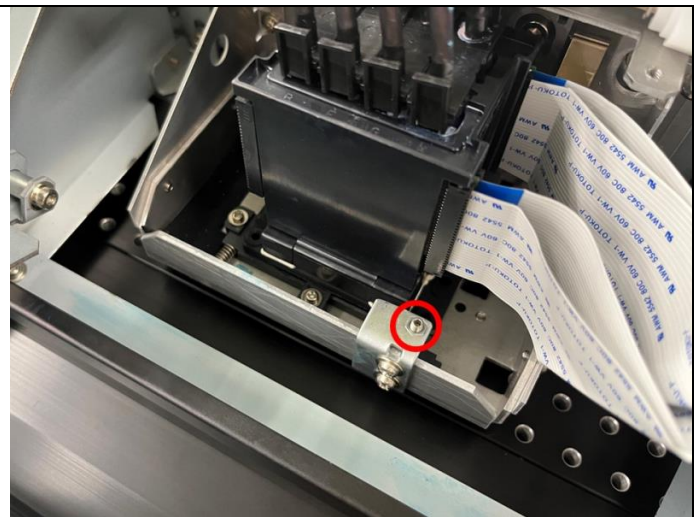
Step 14 / 21

Loosen three screws that secure the print head in the order as shown in the photo. Turn the screws about half a turn. If you loosen them too much, print head alignment cannot be performed properly.



Step 15 / 21

Insert the 1.5 mm hexagonal wrench through the front hole of the print-head carriage. Then, turn the adjustment screw clockwise to make the lines of each color on the right group in the test pattern straight. The position of the printing moves 1 line by turning the screw approximately 1/4 turn.



Step 16 / 21

Detail1: When the right half of the lines are shifting downwards, turn the adjustment screw clockwise.



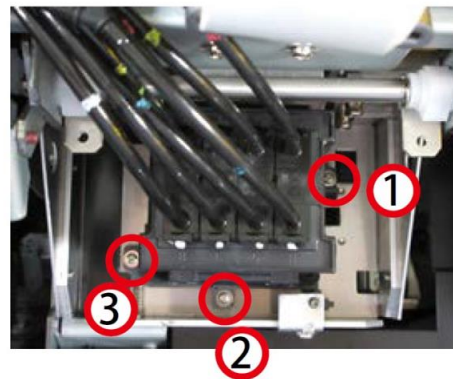
Step 17 / 21

Detail2: When the right half of the 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 head adjustment. Turn the adjustment screw counterclockwise only when fitting back the misalignment.



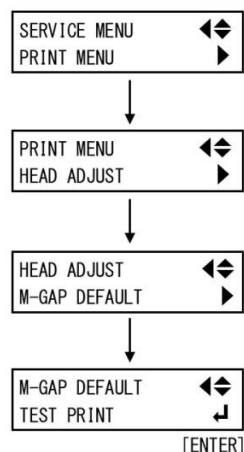
Step 18 / 21

Tighten the fixing screws to secure the print head base using a torque driver. (Torque value: 0.2 N·m/20 cN·m) Do not overtighten the screws.



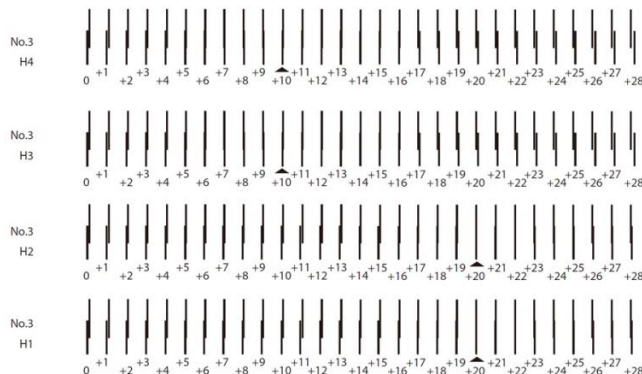
Step 19 / 21

Select [PRINT MENU] > [HEAD ADJUST]
> [M-GAP DEFAULT] > [TEST PRINT], and
press the [ENTER] key.



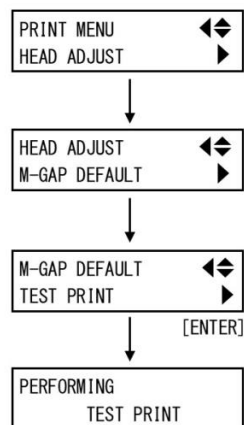
Step 20 / 21

A test pattern is printed. Find the
position where the two lines are
overlapping and check the number of
each color. In case of problems selecting
one of two numbers, half values are also
available for inputting. The number
with [□] is the current setting.



Step 21 / 21

Select [No.1] to [No.4] from the [HEAD
ADJUST] > [M-GAP DEFAULT] > [
SETTING] menu and enter the
parameters checked at previous step
with the [□] [□] keys. Press the [ENTER]
key to save the settings. Parameters can
be entered in increments of 0.5.



MG-640300 Firmware Installation

MG-640300 Firmware Installation Information

Step 1 / 3

-This is done when installing a new
main board without firmware.



Step 2 / 3

Necessary tools

一般ツール/General Tool

無し None	
------------	--

特殊治具/Special Tools

無し None	
------------	--

Step 3 / 3

Typical work time

作業時間/Typical work time

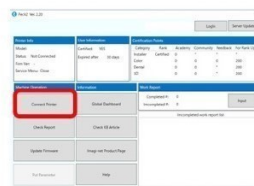
作業内容/Contents of work	時間/Time
ファームウェアインストール Firmware file installation	15 min.

MG-640300 Firmware Installation

MG-640300 Firmware Installation Procedure

Step 1 / 18

Start Peck2 on a computer, and by pressing [Login] button, log in with Imagi-net ID.



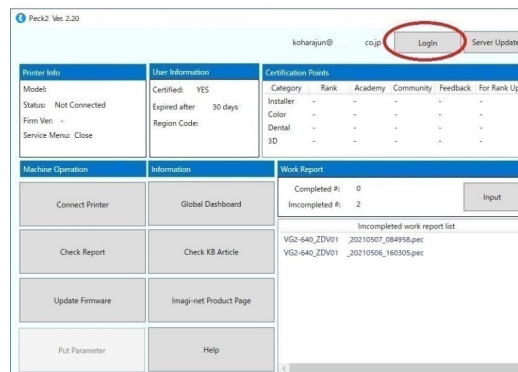
Step 2 / 18

Start Peck2.



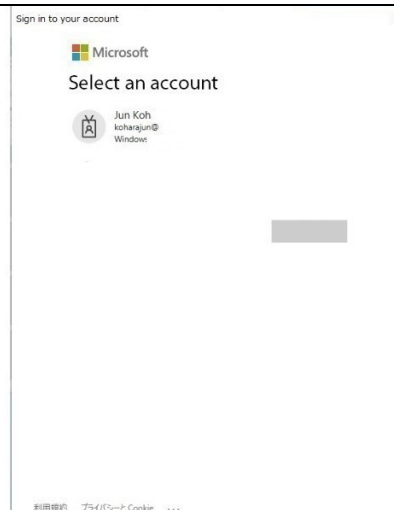
Step 3 / 18

Click the [Login] button.



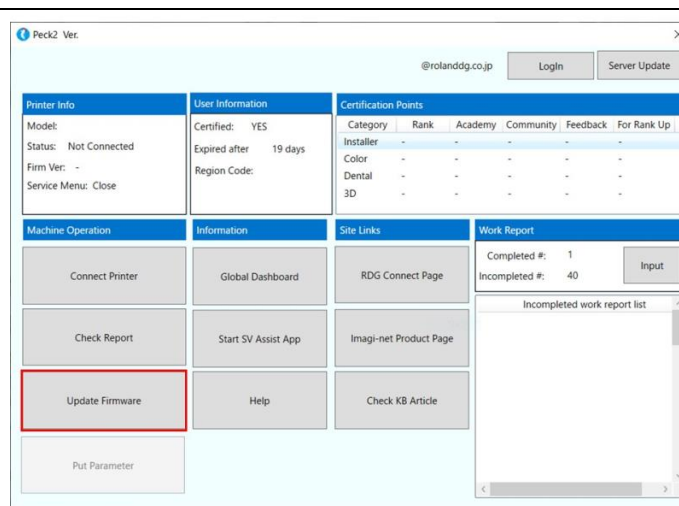
Step 4 / 18

Log in with Imagi-net ID.



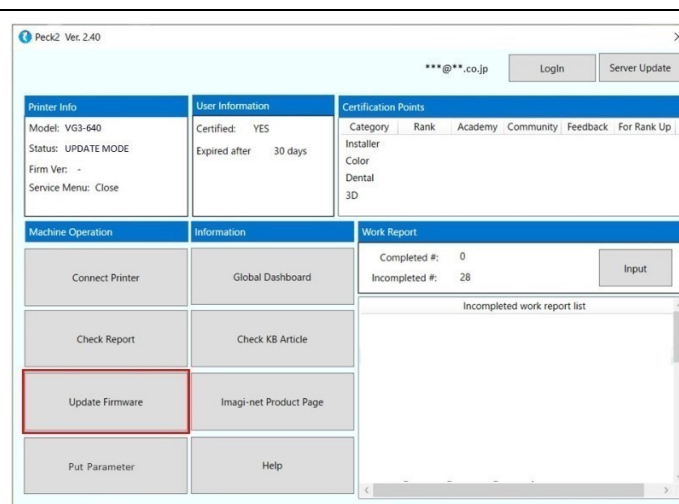
Step 5 / 18

[Update Firmware] can be selected without executing [Connect Printer].



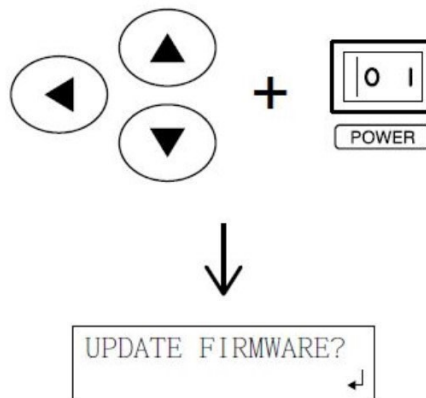
Step 6 / 18

Press [Update Firmware] button.



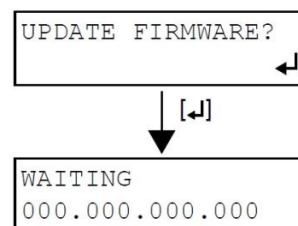
Step 7 / 18

Turn on the main power switch while pressing the  keys.



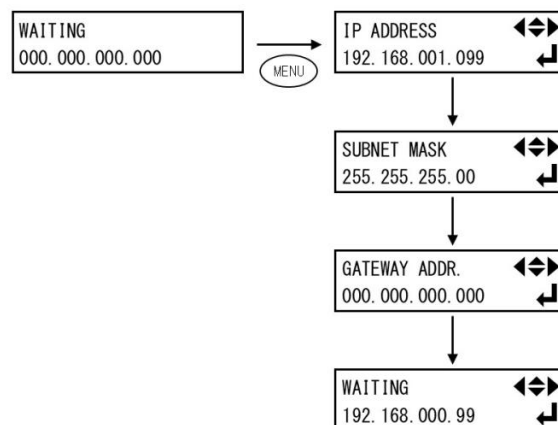
Step 8 / 18

Press the [ENTER] key to prepare the printer for receiving the firmware. Wait for 30 to 40 seconds until IP address is displayed.

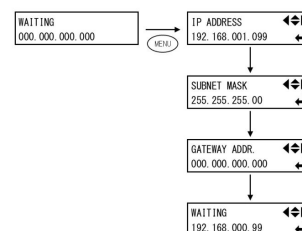


Step 9 / 18

Press the [MENU] key, and set [IP ADDRESS], [SUBNET MASK], and [GATEWAY ADDR.]. Press the  keys for moving between digits, and the  keys for selecting values. After setting an address, press the [ENTER] key to go to the next address setting. When [GATEWAY ADDR.] is set, return to the waiting mode for receiving the



firmware by pressing the[ENTER] key.
The setting made here is only temporary
for the firmware installation and it is
not saved.



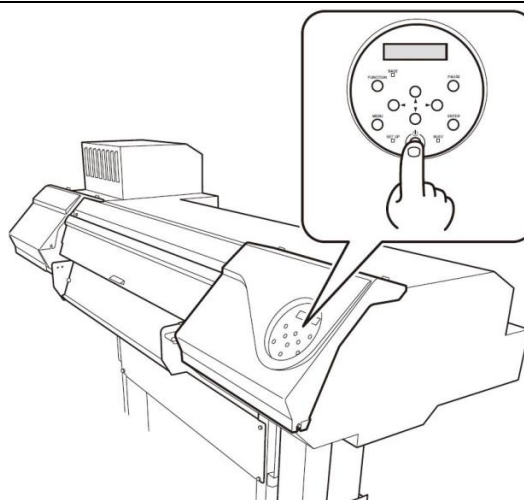
Step 10 / 18

Press [Send] button and select the
firmware. Then press [Open] button.
The firmware will be sent to the printer.



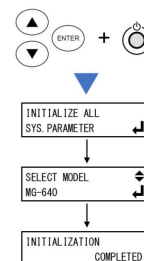
Step 11 / 18

Firmware loading begins. The firmware
installation is completed when the [
COMPLETED] message is displayed.
Turn off the sub power switch.

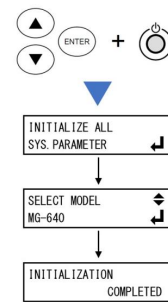


Step 12 / 18

Turn on the sub power switch while
pressing the [] [] [ENTER] keys to enter
the [INITIALIZE ALL SYS.

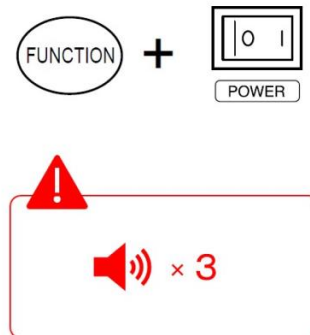


PARAMETER]menu. Select the model by pressing the [↑] [↓] keys, and press the [ENTER] key to start initialization. The sub powerswitch turns off automatically when it is completed.



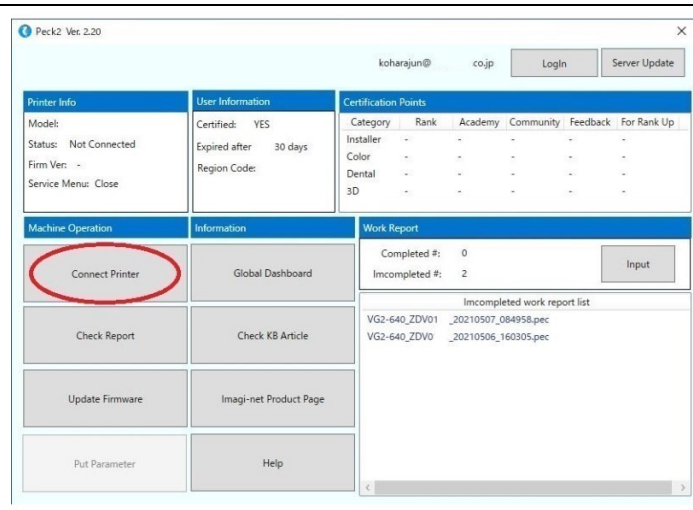
Step 13 / 18

Perform "Temporary IP address setting". Turn on the main power switch while pressing the [FUNCTION] key. Press and hold the [FUNCTION] key for about 10 seconds until BEEP sound rings one time. If the BEEP sound rings three times, try it again. The temporary IP address [192.168.1.99]. is automatically set.



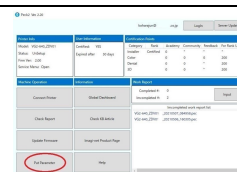
Step 14 / 18

Set the IP address [192.168.1.99] and press [Connect] button in [Connect Printer] in Peck2.



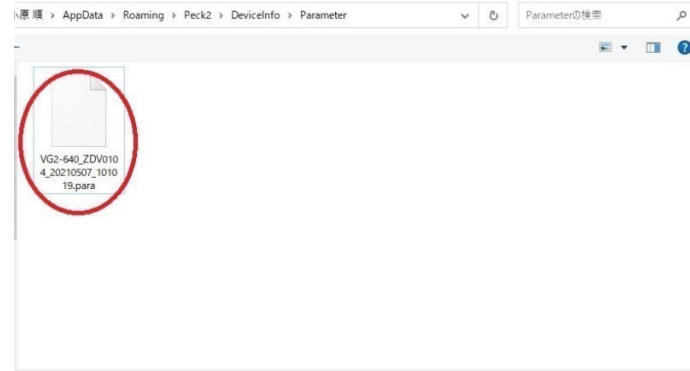
Step 15 / 18

Press [Put Parameter] button.



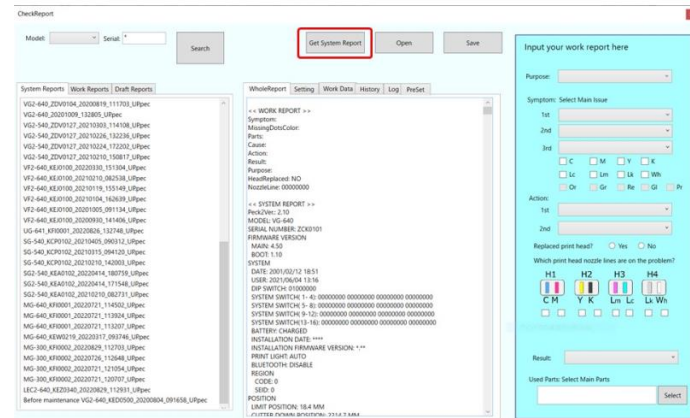
Step 16 / 18

Select the parameter file that was acquired before the main board replacement. Click [Open] and the system parameter will be sent to the printer.



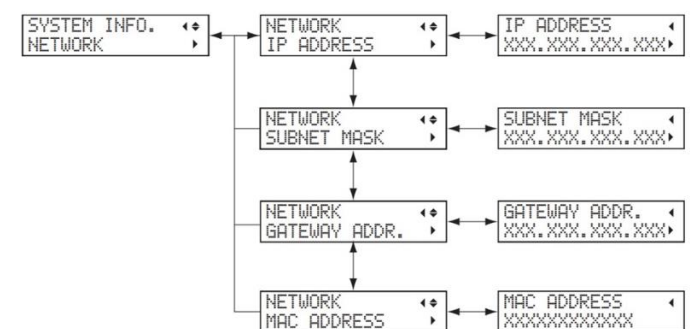
Step 17 / 18

Press [Check Report] button and then press [Get System Report] button to import the system report file. Confirm that system parameters are reloaded properly.



Step 18 / 18

The network settings are replaced with the address saved in the system parameters when [Put Parameters] is executed. Perform the network settings again if necessary.



MG-640300 Firmware Upgrade

MG-640300 Firmware Upgrade Information

Step 1 / 3

The following items are required during firmware upgrade/installation

- Firmware
- Windows PC (must be equipped with a network port)
- Peck2
- Network cable (if directly connected to a computer, a crossover cable is required)



Step 2 / 3

Necessary tools

一般ツール/General Tool

無し None	
------------	--

特殊治具/Special Tools

無し None	
------------	--

Step 3 / 3

Typical work time

作業時間/Typical work time

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

MG-640300 Firmware Upgrade

MG-640300 Firmware Upgrade Procedure

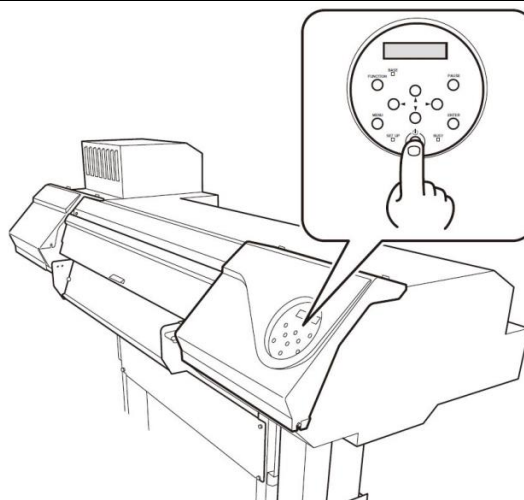
Step 1 / 11

Check the IP address of the printer. Turn on the main power switch, and turn on the sub power switch, and then press the [MENU] key. Select [SYSTEM INFO.] > [NETWORK] > [IP ADDRESS].



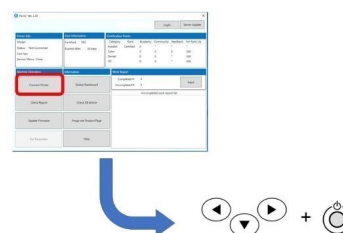
Step 2 / 11

Turn off the sub power switch.



Step 3 / 11

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



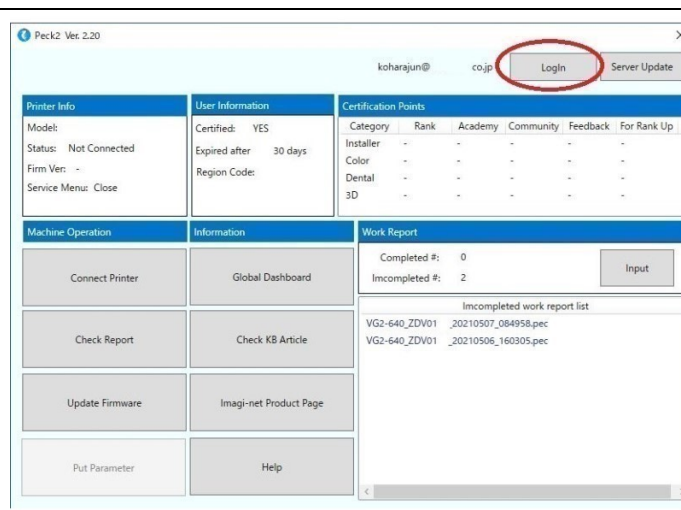
Step 4 / 11

Start Peck2.



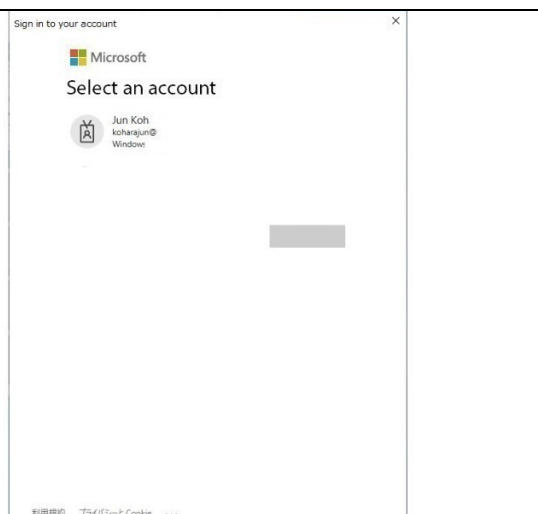
Step 5 / 11

Click the [Login] button.



Step 6 / 11

Log in with Imagi-net ID.



Step 7 / 11

Click the [Connect Printer] button.

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

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

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

Step 8 / 11

Enter IP address of the machine to be connected.

The screenshot shows the Peck2 Ver. 2.20 interface with the 'Connect Printer' dialog box open. The dialog box has a 'Select' dropdown menu showing 'VG2-640' and '11 .129.52'. Below it is an 'Input IP Address' text field. The 'Connect' and 'Close' buttons are at the bottom of the dialog box. The background interface is the same as in Step 7.

Step 9 / 11

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

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

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

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

Press [Update Firmware] button, and follow the instruction on Peck2 to send the firmware to the printer.

Printer Info		User Information		Certification Points			
Model: VG2-640_DZV01		Certified: YES		Category	Rank	Academy	Community
Status: UnSetup		Expired after 30 days		Installer	Certified	0	*
Firm Ver: 2.00				Color	0	0	0
Service Menu: Open				Dental	0	0	*
				3D	0	0	*
				Feedback	For Rank Up	200	200
Machine Operation		Information		Work Report			
Connect Printer		Global Dashboard		Completed #: 0		Input	
				Incomplete #: 2			
Check Report		Check KB Article		Incomplete work report list			
				VG2-640_DZV01_20210507_084958.pec			
				VG2-640_DZV01_20210506_160305.pec			
Update Firmware		Imagi-net Product Page					
Put Parameter		Help					

Click [Open] and the system parameter will be sent to the printer.



MG-640300 Limit Position & Cut Down Position Initialization

MG-640300 Limit Position & Cut Down Position Initialization Information

Step 1 / 3

- This adjustment is for adjusting the relative distance between the limit sensor and the capping position, and also detecting the distance from the cut down position to the limit sensor after completing the adjustment.
- When the limit position is not correctly set, it may cause some problems such as a head capping error and a print-head carriage lock error. Also, when the cutter-down position is not correct, there will be some problems such as a cutter down error when separating the sheet.



Step 2 / 3

Necessary tools

一般ツール/General Tool

無し None	
------------	--

特殊治具/Special Tools

無し None	
------------	--

Step 3 / 3

Typical work time

作業時間/Typical work time

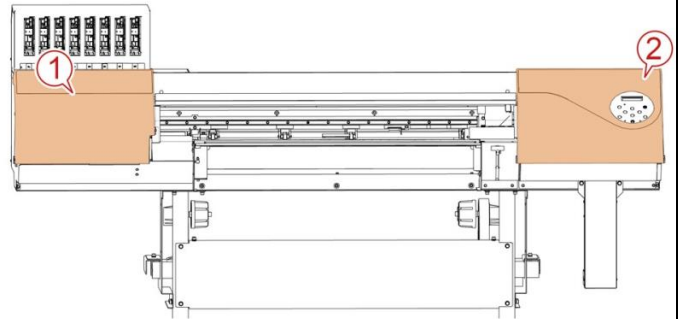
作業内容/Contents of work	時間/Time
リミット&カッターダウン位置設定 Limit position & cut down position initialization	3 min.

MG-640300 Limit Position & Cut Down Position Initialization

MG-640300 Limit Position & Cut Down Position Initialization Procedure

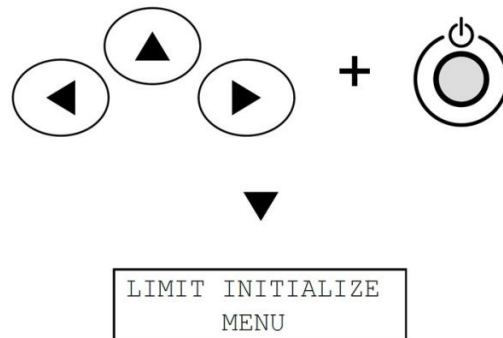
Step 1 / 8

Open the cover L and R.



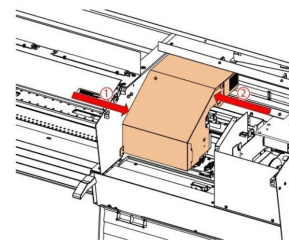
Step 2 / 8

Turn on the sub power switch while pressing the [] [] [] keys to enter the limit initialization mode.

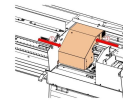


Step 3 / 8

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

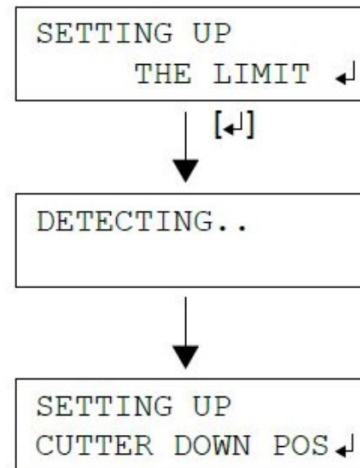


looseness.



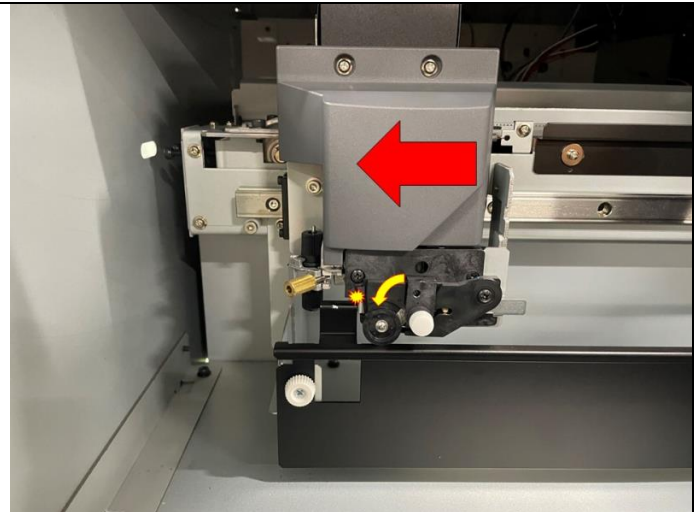
Step 4 / 8

Confirm that the print head is capped properly, and press the [ENTER] key. Limit position initialization will start. After initialization is completed, the message is displayed.



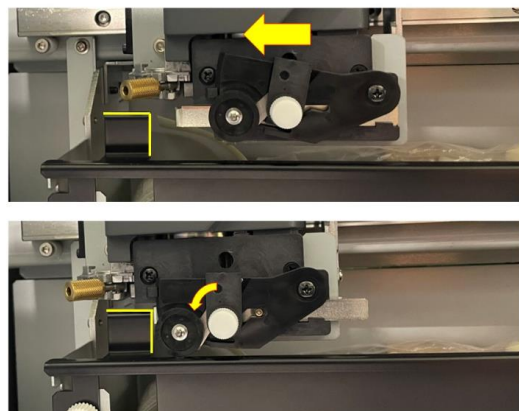
Step 5 / 8

Move the tool carriage with your hand until it makes full contact with the left frame with the cutter in the down position. *Do not perform this procedure with the tool carriage connected to the print head carriage.



Step 6 / 8

Detail1: Move the tool carriage with your hand until it makes full contact with the left frame with the cutter in the down position.



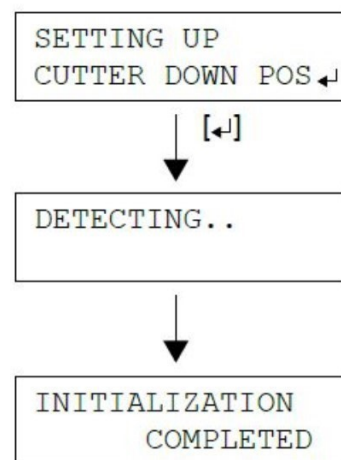
Step 7 / 8

Make sure to remove the media clamps. If you forget to remove them, the media clamps may interfere with the cutter.



Step 8 / 8

Press the [ENTER] key to perform cut down position initialization. After initialization is completed, the message is displayed.



MG-640300 Belt Tension Adjustment

MG-640300 Belt Tension Adjustment Information

Step 1 / 4

<Adjustment after work> Belt position
adjustment



Step 2 / 4

Necessary tools

一般ツール/General Tool

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



六角レンチ3.0mm
3.0 mm hexagonal wrench

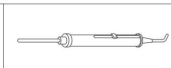


Step 3 / 4

Special tools

特殊治具/Special Tools

ST-001
TENSION GAUGE 2000GF/2000CN



Step 4 / 4

Typical work time

作業時間/Typical work time

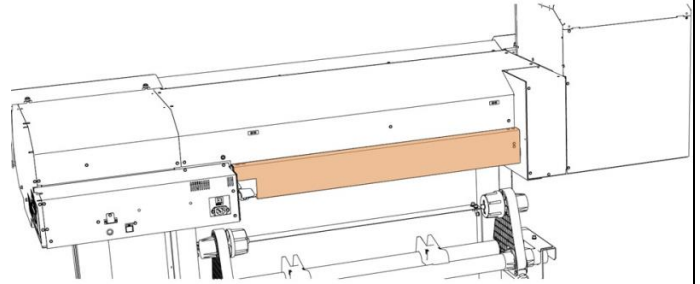
作業内容/Contents of work	時間/Time
ベルトテンション調整 Belt tension adjustment	40 min.

MG-640300 Belt Tension Adjustment

MG-640300 Belt Tension Adjustment Procedure

Step 1 / 13

Cover that needs to be removed 1



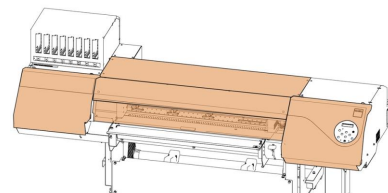
Step 2 / 13

Detail1: Loosen the screws and slide the shafts, and then remove the rear light shielding cover.



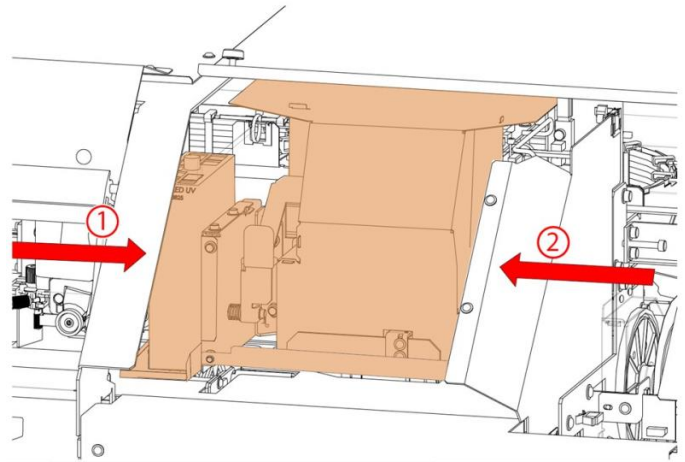
Step 3 / 13

Cover that needs to be removed 2



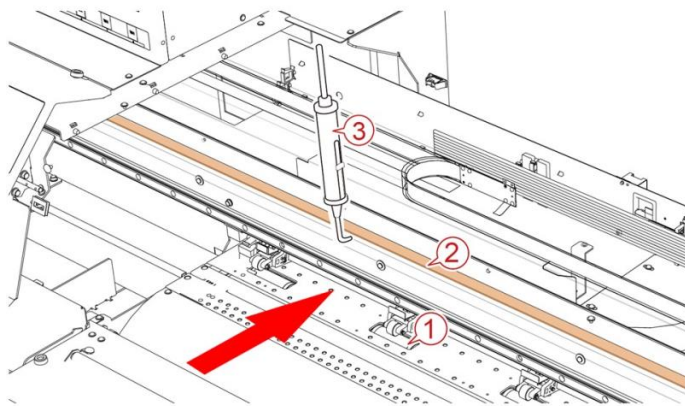
Step 4 / 13

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



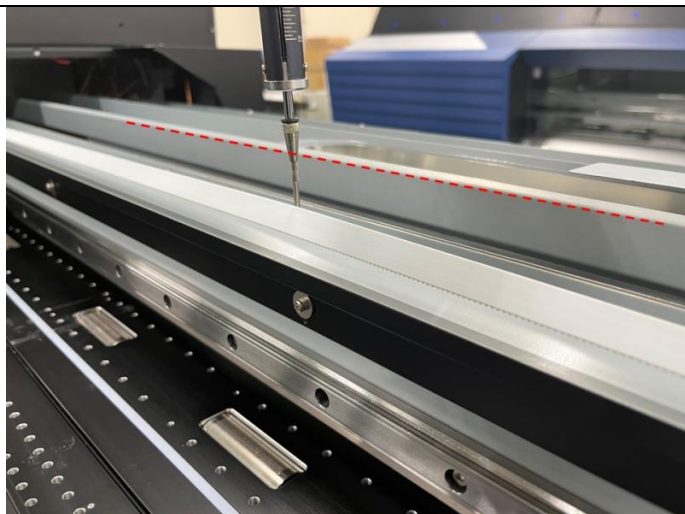
Step 5 / 13

Pull the belt up to the height of the cut-ribbon-cable guide as viewed from the machine front. The tension is correct if the measured value is within the proper range shown on the next step. When the tension is not proper, move on to the next step and adjust the belt tension. (1. Grit roller, 2. Belt, 3. Tension gauge)



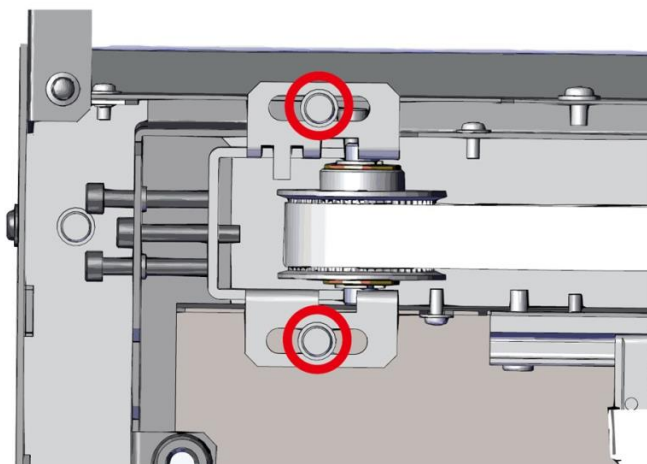
Step 6 / 13

Measure the tension of the belt using the tension gauge. □MG-300: Area between the second and third grit rollers from left 1.05Kgf ~ 1.20Kgf, □MG-640: Above the fifth grit roller from left 0.6Kgf ~ 0.7Kgf



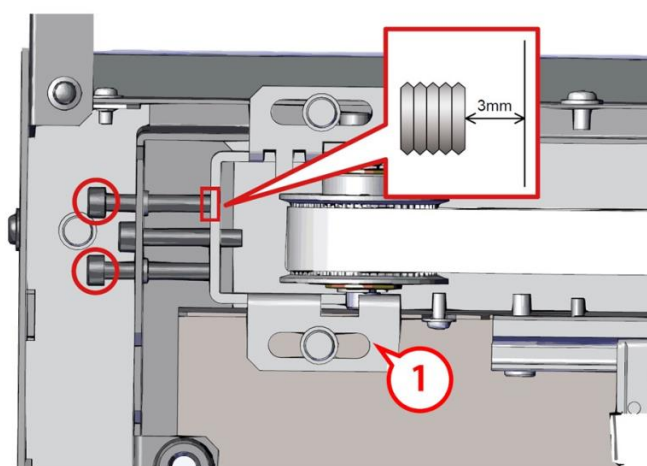
Step 7 / 13

Loosen two fixing screws which are located on the left end of the belt halfway turn. Be careful with the sharp edges around the belt when loosening the screws. It may cause injury.



Step 8 / 13

Insert a wrench through the holes on the side frame and loosen two adjustment screws to make a gap of three millimeters between the tip of the screw and idle pulley holder. (1.idle pulley holder)



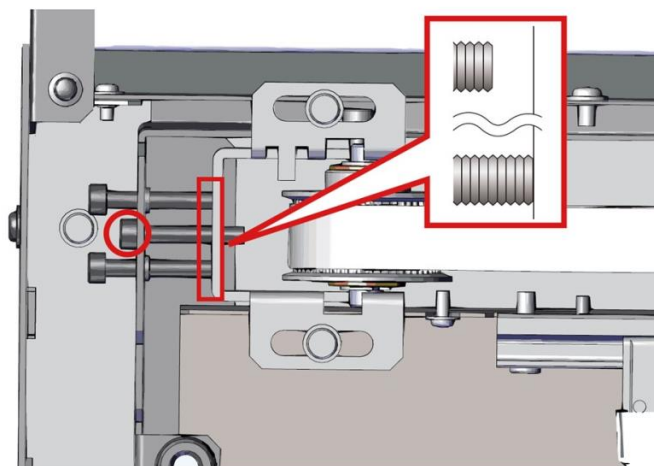
Step 9 / 13

Detail1: The belt tension cannot be adjusted higher when the screws contact with the idle pulley holder. The gap between the screws and idle pulley can be seen from both front side and rear side of the machine.



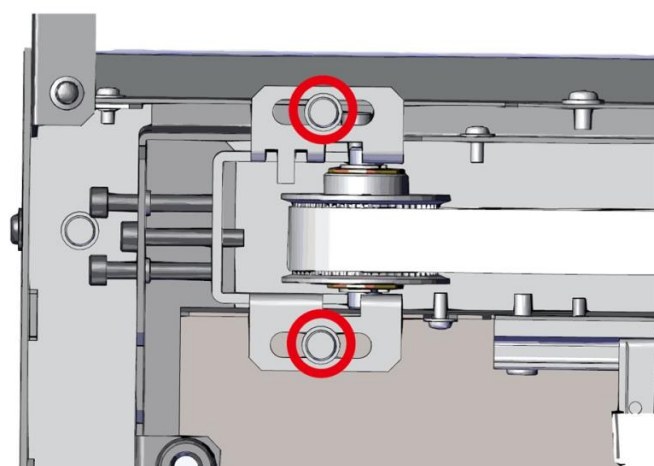
Step 10 / 13

Turn the adjustment screw to adjust the value of the tension gauge within proper range. Turn the screw clockwise: Tension is increased. * Turn the screw counterclockwise: Tension is decreased.



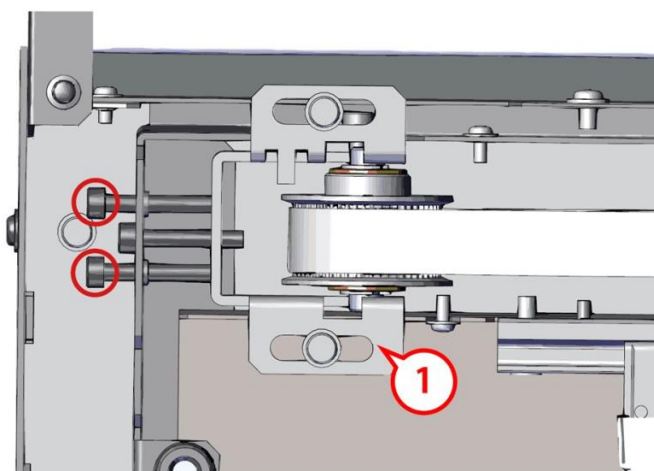
Step 11 / 13

Tighten two fixing screws, and again confirm that the tension is within the proper range.



Step 12 / 13

Tighten two adjustment screws until they slightly touch the idle pulley holder. Do not overtighten the screws. Overtightening could move the fixed idle pulley holder. (1.idle pulley holder)



Step 13 / 13

Perform "Belt Position Adjustment".



次の手順

ベルト位置調整

Next Step

Belt Position Adjustment

MG-640300 Belt Position Adjustment

MG-640300 Belt Position Adjustment

Information

Step 1 / 3

-This is done to prevent belt wear due to strong contact of the belt with the pulley flange. After adjusting the belt tension, check the belt position and adjust if necessary. -Adjustment on the drive pulley side will change the force with which the scan motor gear presses against the white gear on the drive pulley, leading to chipped teeth on the white gear and scan motor failure. After adjusting the belt position, it is always necessary to loosen the scan motor fixing screw and retighten it again.



Step 2 / 3

Necessary tools

一般ツール/General Tool

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

Step 3 / 3

Typical work time

作業時間/Typical work time

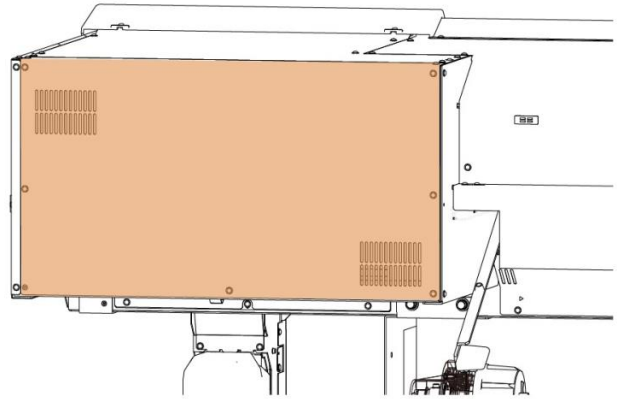
作業内容/Contents of work	時間/Time
キャリッジベルト位置調整 Carriage belt position adjustment	40 min.

MG-640300 Belt Position Adjustment

MG-640300 Belt Position Adjustment Procedure

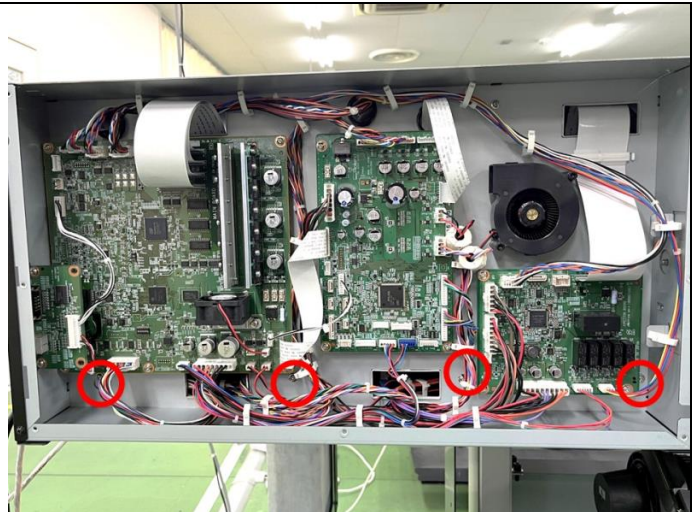
Step 1 / 37

Remove the chassis cover.



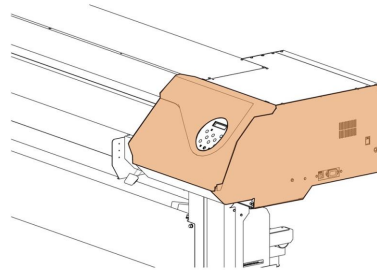
Step 2 / 37

Loosen the screws that secure the controller chassis.



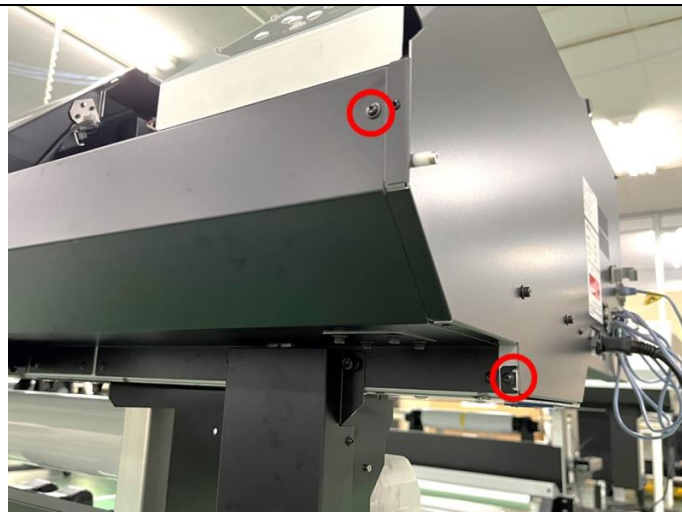
Step 3 / 37

Remove the right and left side covers.



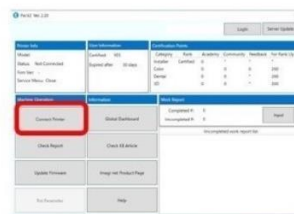
Step 4 / 37

Detail1: The front side screws to be removed are as follows. When attaching the covers, attach the right side cover first, and then tighten the screws to secure the controller chassis.



Step 5 / 37

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



Step 6 / 37

Check the position of the belt. If the flange of the drive pulley is not in contact with the belt excessively, the position is proper. When positioning is correct, skip this adjustment and go to "Adjustment on the idle pulley side" without stopping the aging. When positioning is not correct, perform the following adjustment.



Step 7 / 37

Detail1: Belt partly touching the flange is acceptable.

Peck2 Ver. 2.20

koharajun@ co.jp Login Server Update

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

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

Step 8 / 37

Press the [ENTER] key to interrupt aging.

Sign in to your account

Microsoft

Select an account

Jun Koh
koharajun@
Windows

利用規約 プライバシーとCookie

Step 9 / 37

Loosen two fixing screws located on the right end of the belt. Loosen the screws a few turns. Loosen the screws a few turns to make a small gap between the bottom of the screw head and stay.

Peck2 Ver. 2.20

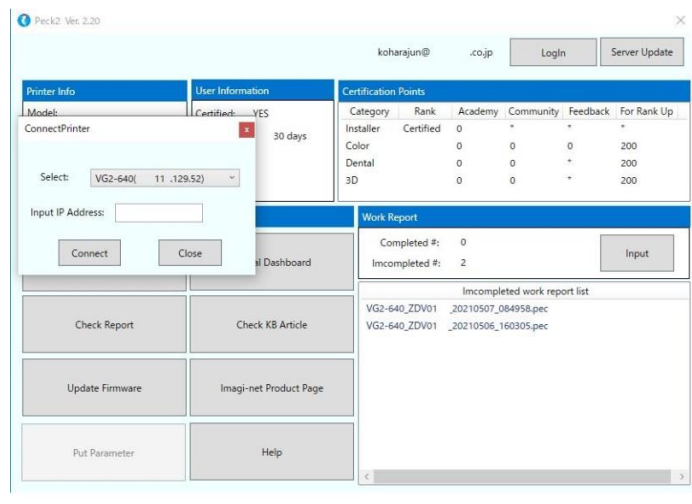
koharajun@ co.jp Login Server Update

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

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

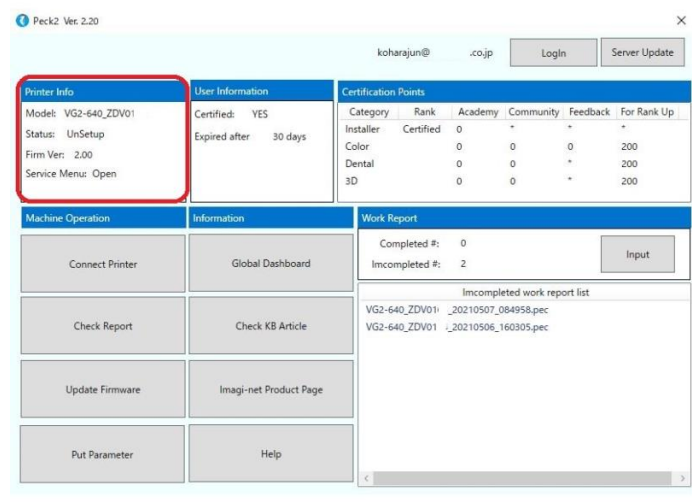
Step 10 / 37

Press the [ENTER] key to restart aging.



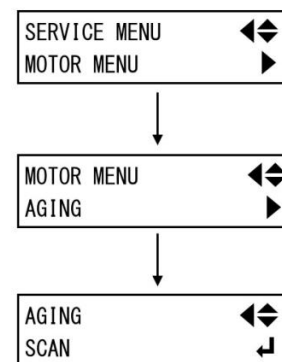
Step 11 / 37

Adjust the belt position by turning the adjustment screw as follows. The work space is narrow. Be careful not to touch the spinning drive pulley and belt.



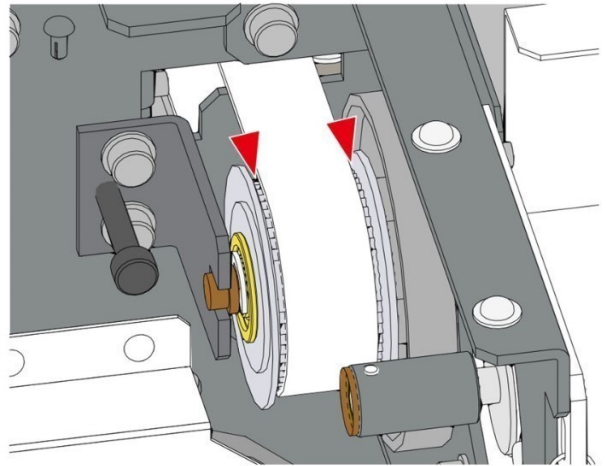
Step 12 / 37

Detail1: [When the belt is shifted toward the front side of the machine] Turn the screw carefully clockwise (tightening).



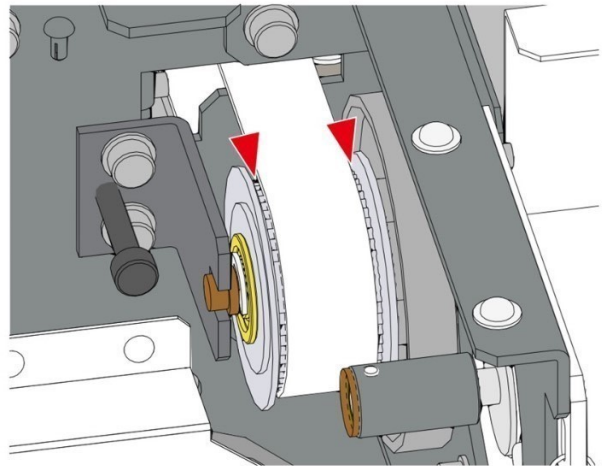
Step 13 / 37

Detail2: [When the belt is shifted toward the rear side of the machine] Turn the screw carefully counterclockwise (loosening).



Step 14 / 37

Tighten two screws until the bottom of the screw heads slightly touch the stay. Do not overtighten the screws. Overtightening could move the adjusted idle pulley.



Step 15 / 37

Confirm that the belt is not touching the pulley flanges excessively. When the belt is properly positioned, leave the belt aging on, and proceed to "Adjustment on the idle pulley side". When the belt is improperly positioned, adjust it again.

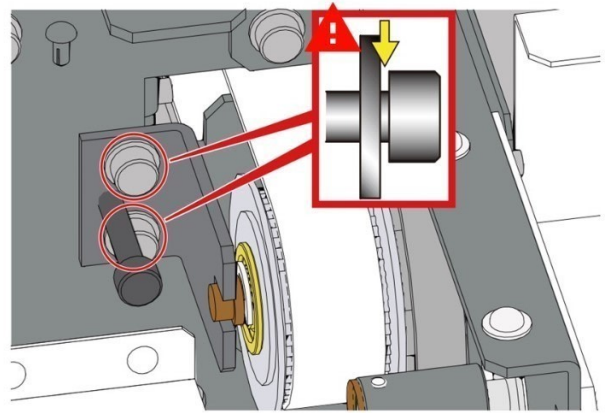
SCAN
NOW AGING



[↶]

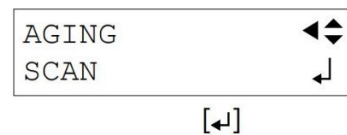
Step 16 / 37

Check the position of the belt. If the flange of the idle pulley is not in contact with the belt excessively, the position is proper. So, you may end this belt position adjustment at this point. When positioning is not correct, perform the following adjustment.



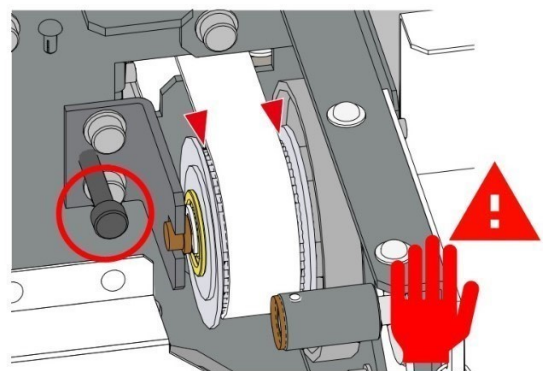
Step 17 / 37

Detail1: Belt partly touching the flange is acceptable.



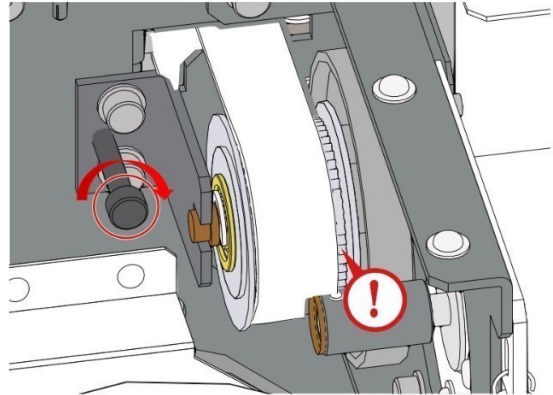
Step 18 / 37

Press the [ENTER] key to interrupt aging.



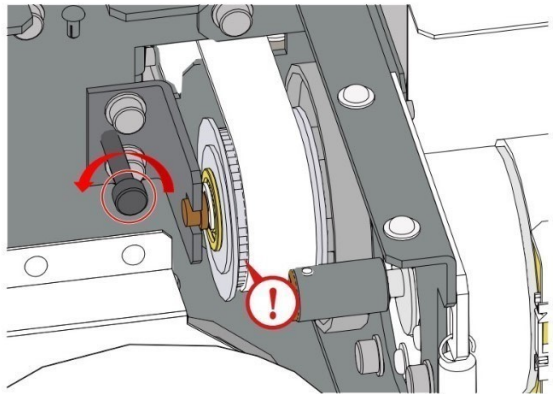
Step 19 / 37

Loosen two fixing screws located at the left end of the belt by a quarter turn. If you loosen the screws too much, it will make it difficult to adjust the belt position. Be careful with the sharp edges around the belt when loosening the screws. It may cause injury.



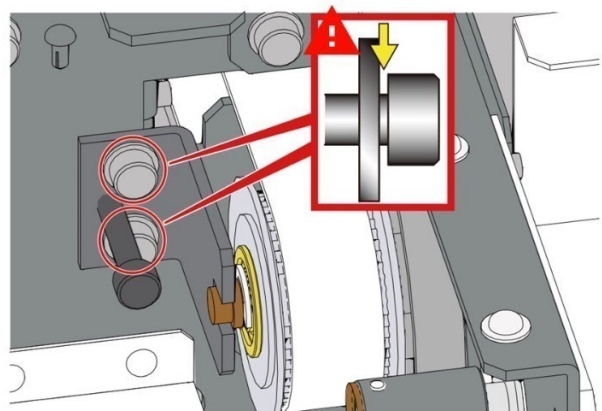
Step 20 / 37

Insert a wrench through the holes on the side frame and loosen two adjustment screws to make a gap of three millimeters between the tip of the screw and idle pulley holder.



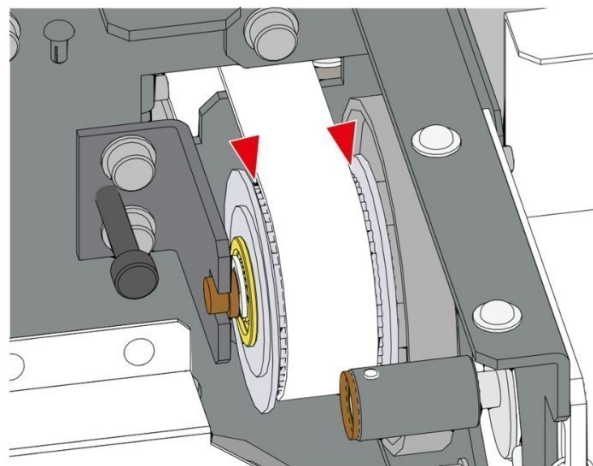
Step 21 / 37

Detail1: The gap between the screws and the idle pulley holder can be seen from both the front side and rear side of the machine.



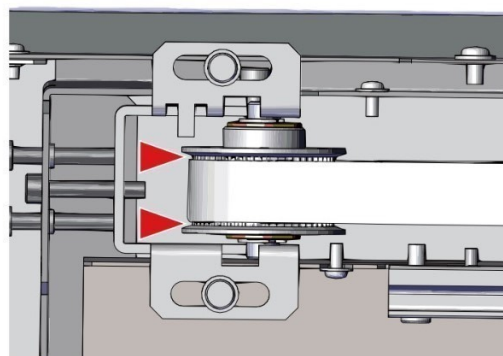
Step 22 / 37

Press the [ENTER] key to restart aging.



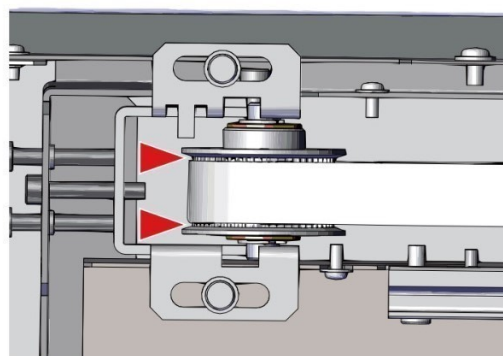
Step 23 / 37

Insert a wrench through the holes on the side frame and adjust the belt position by turning the screws as follows.



Step 24 / 37

Detail1: [When the belt is shifted toward the front side of the machine] Turn screw 1 carefully clockwise to where it touches to the idle pulley holder. * Make sure that there is a gap of three millimeters between screw 2 and the idle pulley holder when turning screw 1.



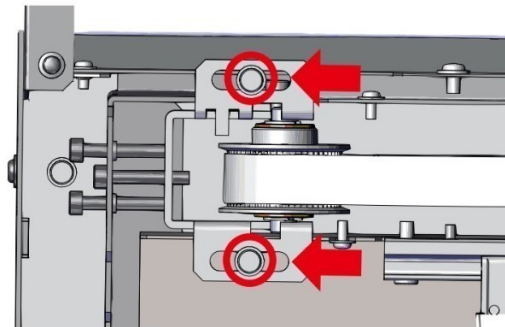
Step 25 / 37

Detail2: [When the belt is shifted toward the rear side of the machine] Turn screw 2 carefully clockwise to where it touches to the idle pulley holder. * Make sure that there is a gap of three millimeters between screw 1 and the idle pulley holder when turning screw 2.



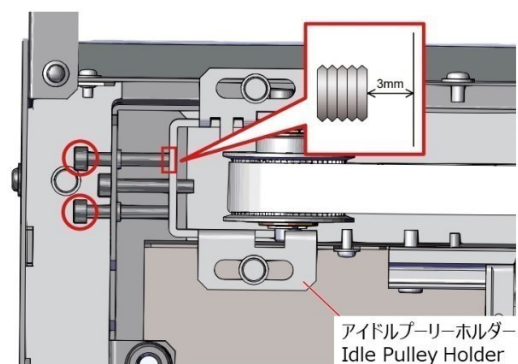
Step 26 / 37

Tighten one of the screws that have no contact with the idle pulley holder until the screw slightly touches the idle pulley holder. Do not overtighten the screws. Overtightening could move the idle pulley holder.



Step 27 / 37

Confirm that the belt is not touching the pulley flanges excessively. When positioning is correct, press the [ENTER] key to interrupt aging. When the belt is improperly positioned, adjust it again.



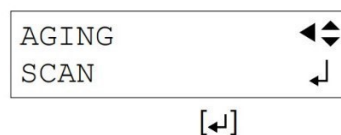
Step 28 / 37

Tighten two fixing screws.



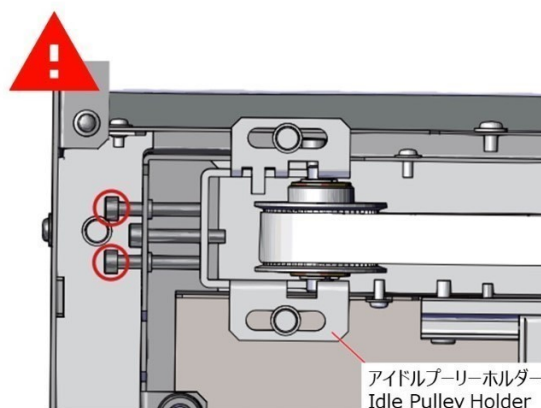
Step 29 / 37

When the drive pulley side adjustment has been done, loosen the fixing screw holding scan motor once, and tighten them again referring to "Scan Motor Replacement".



Step 30 / 37

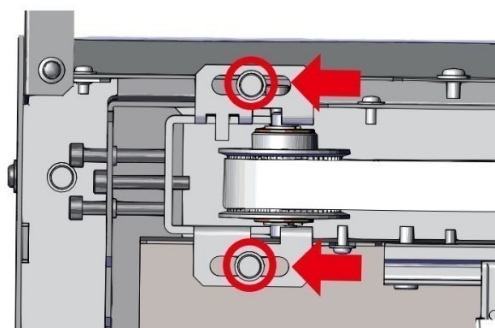
Press the [ENTER] key to restart aging. Positioning is correct when the belt is not touching the flanges excessively. When positioning is correct, end this belt position adjustment. When it is not correct, go back to step at the beginning and readjust the belt position.



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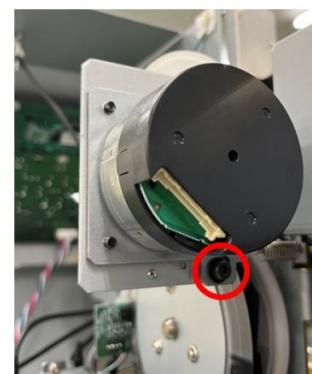


□□□□2 □□□□□□□□



3

Rear view



Step 37 / 37

[ENTER]

□ □

□ □

□ □

[illegible]

AGING

SCAN



[←]

MG-640300 Linear Encoder Setup

MG-640300 Linear Encoder Setup

Information

Step 1 / 2

Necessary tools

一般ツール/General Tool

無し None	
------------	--

特殊治具/Special Tools

無し None	
------------	--

Step 2 / 2

Typical work time

作業時間/Typical work time

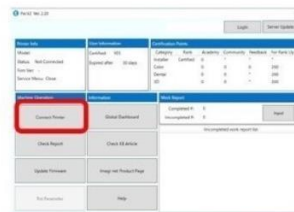
作業内容/Contents of work	時間/Time
リニアエンコーダー位置設定 Linear encoder setup	5 min.

MG-640300 Linear Encoder Setup

MG-640300 Linear Encoder Setup Procedure

Step 1 / 11

Connect Peck2 with the machine to enter the service mode.



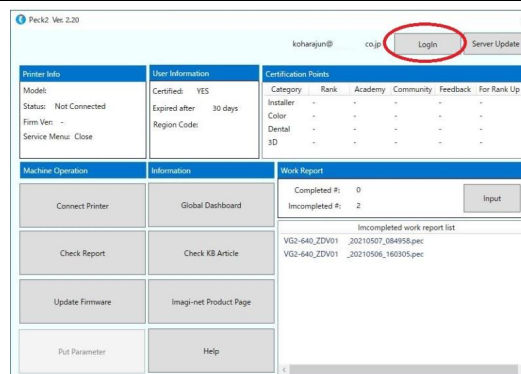
Step 2 / 11

Detail1: Start Peck2.



Step 3 / 11

Detail2: Click the [Login] button.

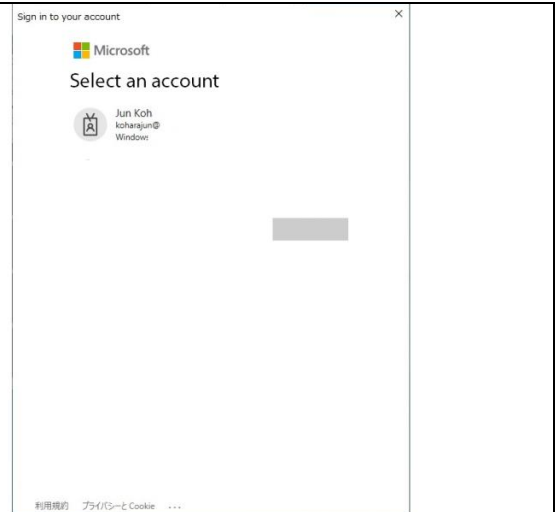


Friday, June 27, 2025 8:59 AM

Language: en

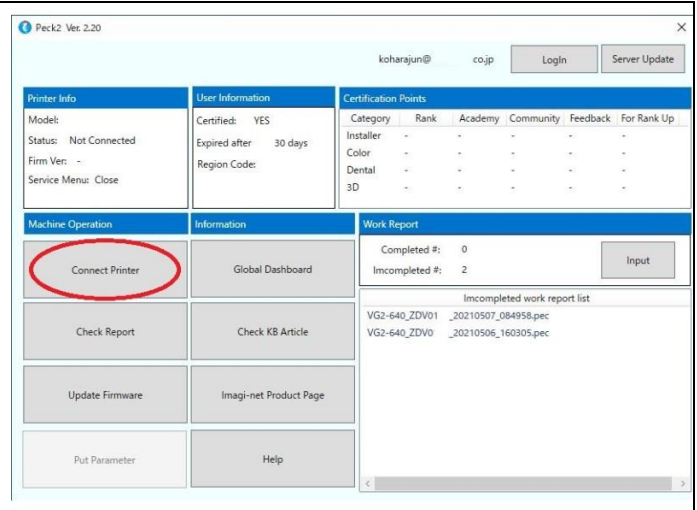
Step 4 / 11

Detail3: Log in with Imagi-net ID.



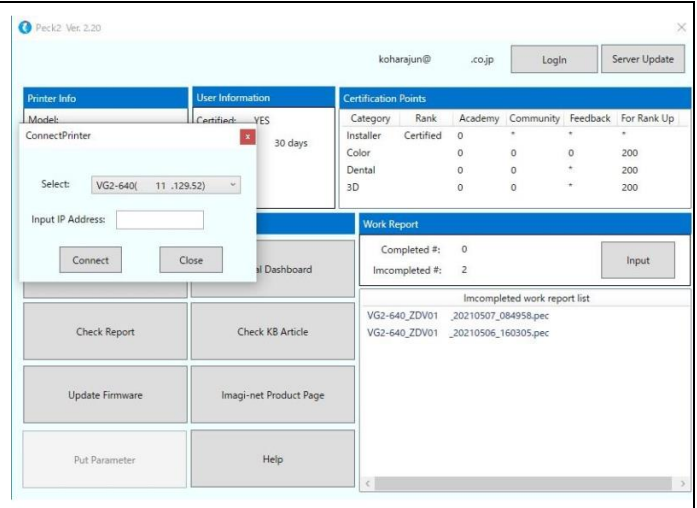
Step 5 / 11

Detail4: Click the [Connect Printer] button.



Step 6 / 11

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



Step 7 / 11

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

Peck2 Ver. 2.20

koharjun@ .co.jp Login Server Update

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

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

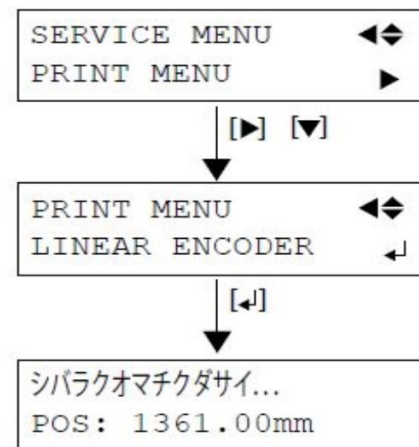
Step 8 / 11

Make sure to unload the media. Lower the pinch rollers.



Step 9 / 11

Select [PRINT MENU] > [LINEAR ENCODER], and press the [ENTER] key.



Step 10 / 11

One of the messages appears at the completion of setup. When [SETUP COMPLETED] is displayed, the process is complete.

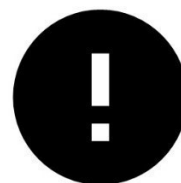
確認/confirm

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

Step 11 / 11

Detail1: In case of [SETUP FAILED] error occurs, check the following. •

- Dirt/scratches on the encoder scale •
- Dirt/scratches on the encoder sensor •
- Limit position & cut down position initialization error •
- Backlash of the scan motor gear and the drive gear •
- Fastening of the carriage and the carriage belt •
- Bad cable connection.



MG-640300 Feed Calibration

MG-640300 Feed Calibration Information

Step 1 / 3

- This adjustment is for calibrating the feed amount of media. It allows the media to be fed in proper amount by calibrating the variation in grit roller diameter. Calibration is made based on the value in feeding media [SP-M].

Without proper calibration, it may cause misalignment in the feed amount of media, and it results in the problems such as white banding by banding of overlap or the dimension error of print result compared to the original data.

- When you do not have SP-M, use PET film for solvents. • Take-up unit must not be used during this adjustment.



Step 2 / 3

Necessary tools

一般ツール/General Tool

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



Step 3 / 3

Typical work time

作業時間/Typical work time

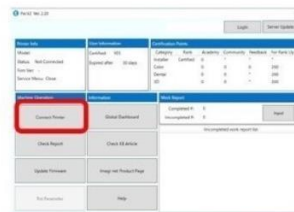
作業内容/Contents of work	時間/Time
距離補正（メディア送り方向） Feed calibration	15 min.

MG-640300 Feed Calibration

MG-640300 Feed Calibration Procedure

Step 1 / 12

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



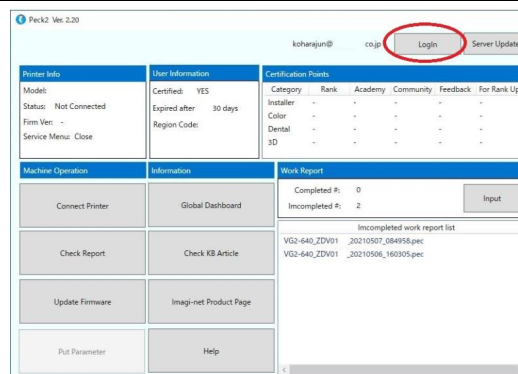
Step 2 / 12

Detail1: Start Peck2.



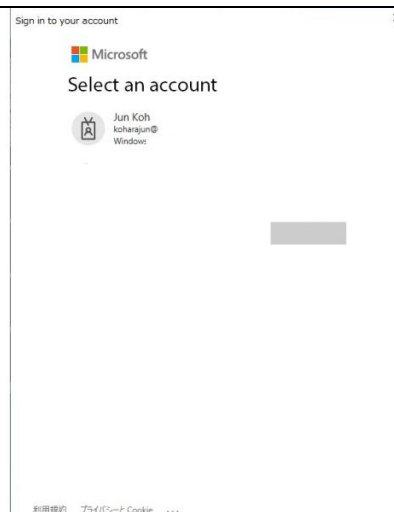
Step 3 / 12

Detail2: Click the [Login] button.



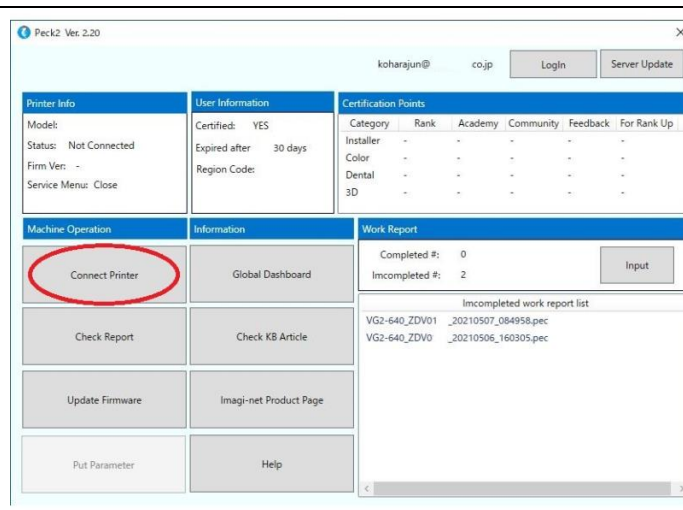
Step 4 / 12

Detail3: Log in with Imagi-net ID.



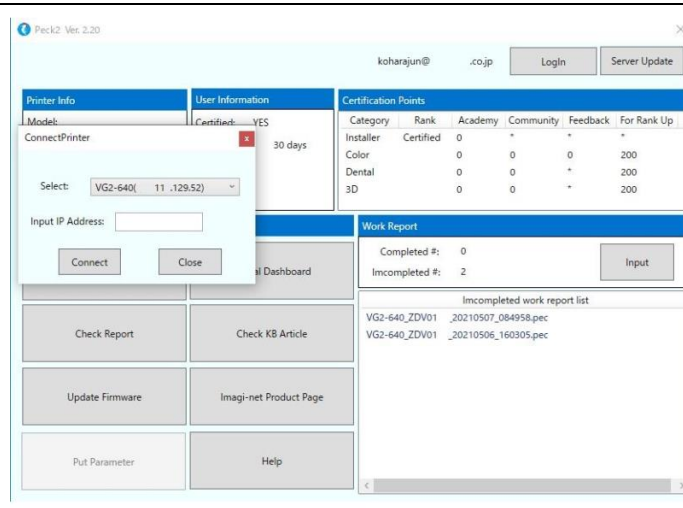
Step 5 / 12

Detail4: Click the [Connect Printer] button.



Step 6 / 12

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



Step 7 / 12

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

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

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

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

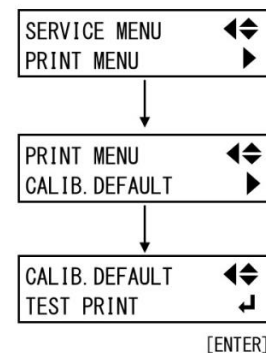
Input

Incompleted work report list

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

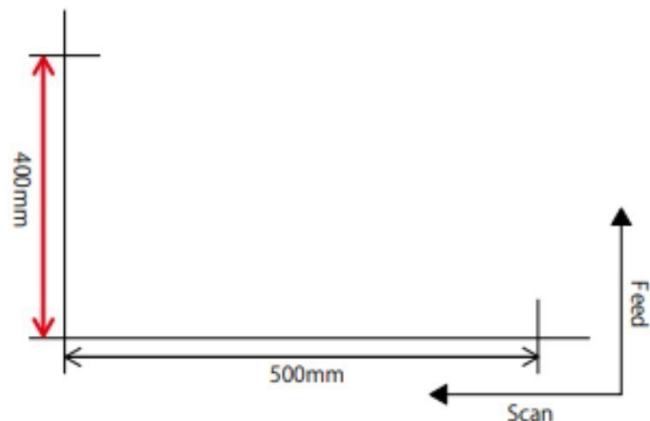
Step 8 / 12

Select [PRINT MENU] > [CALIB.DEFAULT] > [TEST PRINT], and press the [ENTER] key. Test print requires 510 mm or more of the media setup width.



Step 9 / 12

Measure the length of the feed direction and use the value to calculate the correction value with the formula shown at next step. Test pattern is always printed with correction value 0.00%. Even if a correction is made in the [SETTING] menu, the test pattern is not affected.



Step 10 / 12

Calculate the correction value with the formula.

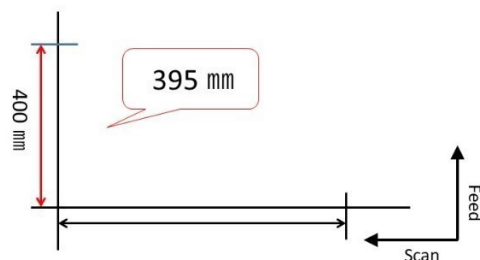
$$\text{補正值} = \frac{400 - \text{測定値}}{\text{測定値}} \times 100$$

$$\text{Correction value} = \frac{400 - \text{Measured value}}{\text{Measured value}} \times 100$$

Step 11 / 12

Detail1: Example

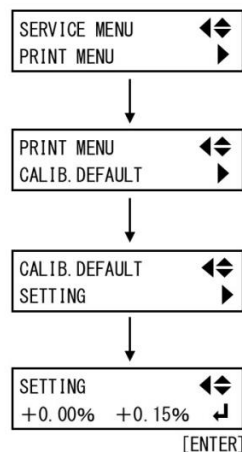
e.g.



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

Step 12 / 12

Select [PRINT MENU] > [CALIB.DEFAULT] > [SETTING], and enter the collection value with the [←] [→] keys. Then press the [ENTER] key to save the setting.



MG-640300 Flushing Position Adjustment

MG-640300 Flushing Position Adjustment Information

Step 1 / 3

This is to adjust the flushing position.
Without this adjustment, the flushing
may not be performed properly and
that can cause nozzle firing problem.



Step 2 / 3

Necessary tools

一般ツール/General Tool

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



Step 3 / 3

Typical work time

作業時間/Typical work time

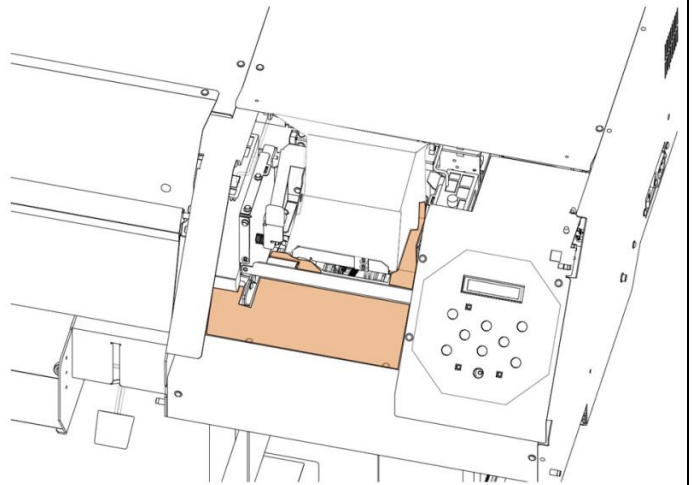
作業内容/Contents of work	時間/Time
フラッシング位置調整 Flushing position adjustment	3 min.

MG-640300 Flushing Position Adjustment

MG-640300 Flushing Position Adjustment Procedure

Step 1 / 13

Cover that needs to be removed



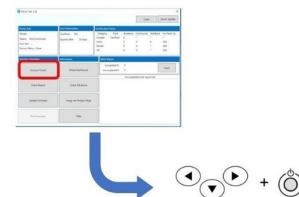
Step 2 / 13

Set the print head height to Sp. LOW.



Step 3 / 13

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



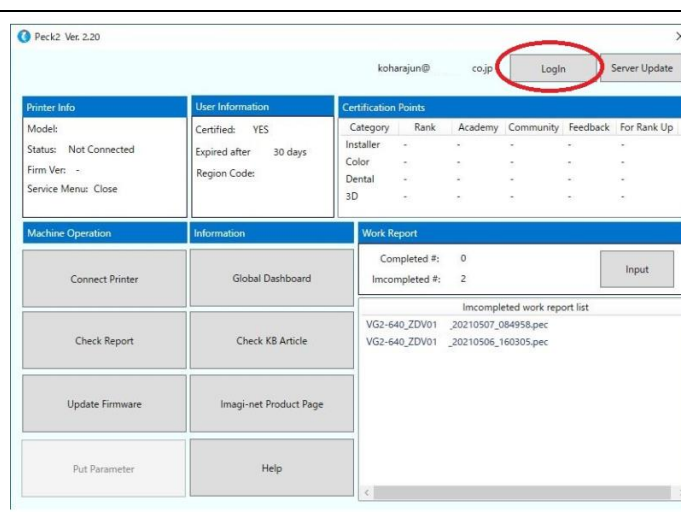
Step 4 / 13

Detail1: Start Peck2.



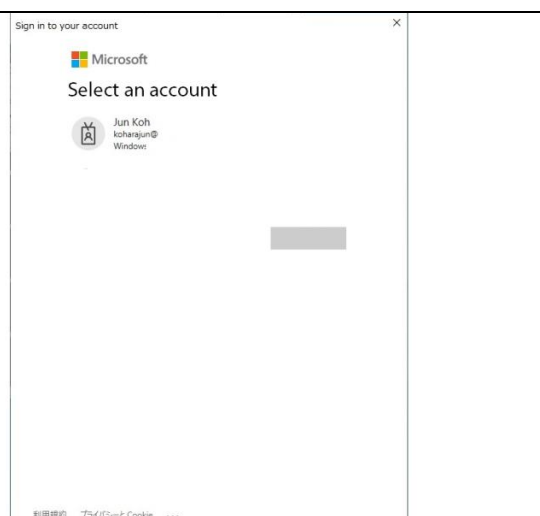
Step 5 / 13

Detail2: Click the [Login] button.



Step 6 / 13

Detail3: Log in with Imagi-net ID.



Step 7 / 13

Detail4: Click the [Connect Printer] button.

Peck2 Ver. 2.20

koharjun@ .co.jp Login Server Update

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

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

Incompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Step 8 / 13

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

Peck2 Ver. 2.20

koharjun@ .co.jp Login Server Update

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

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

Incompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Step 9 / 13

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

Peck2 Ver. 2.20

koharjun@ .co.jp Login Server Update

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

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

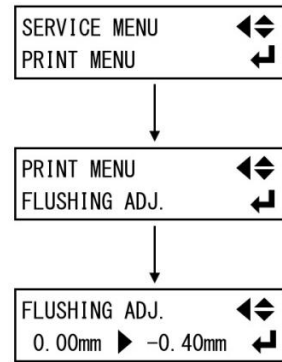
Incompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

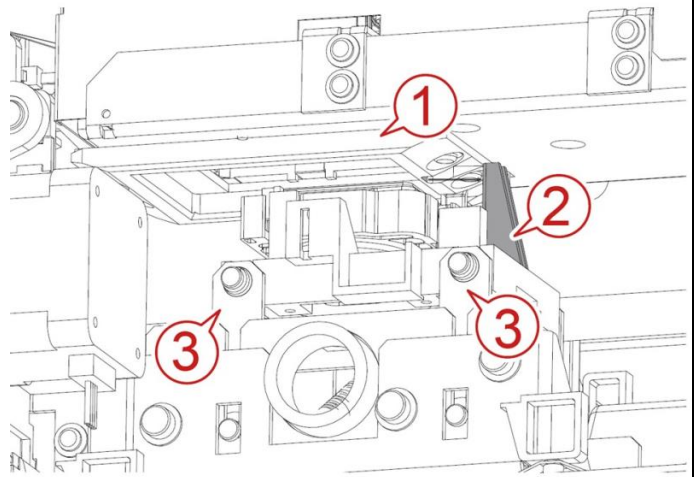
Step 10 / 13

Select [PRINT MENU] > [FLUSHING ADJ], and press the [ENTER] key. The print-head carriage automatically moves to the current flushing position.



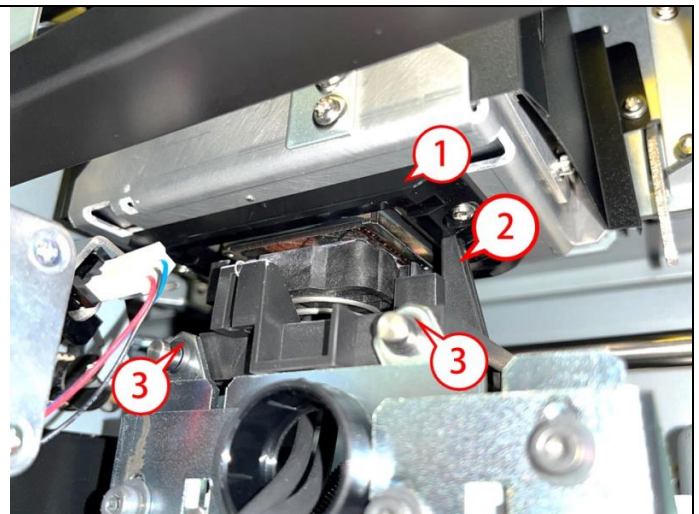
Step 11 / 13

Move the print-head carriage to the position where the slot of the carriage cap guide makes contact with the tip of the backup cap base (the position where arm part of the cap unit starts to move) by pressing [□] and [□] keys. (1.Carriage cap guide 2.Backup cap base, 3.Arm□



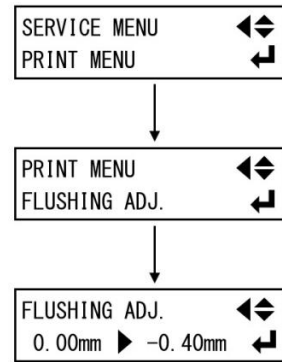
Step 12 / 13

Detail1: Since you cannot see the tip of the backup cap base touching the slot of the carriage cap guide, check the movement of the arm. (1.Carriage cap guide 2.Backup cap base, 3.Arm□



Step 13 / 13

Press the [ENTER] key to set the flushing position. If you press the [MENU] key, the flushing position will not be updated, and display returns to the menu.



MG-640300 Wiper Position Adjustment

MG-640300 Wiper Position Adjustment Information

Step 1 / 3

This is to set the reference position for wiping. This adjustment is required under the following conditions:

- If the parameter cannot be transferred at the time of main board replacement
- After the rotating part of wiper unit is replaced
- If the plate of UV lamp is slanted
- This adjustment is not required after UV lamp is replaced.



Step 2 / 3

Necessary tools

一般ツール/General Tool

無し None	
------------	--

特殊治具/Special Tools

無し None	
------------	--

Step 3 / 3

Typical work time

作業時間/Typical work time

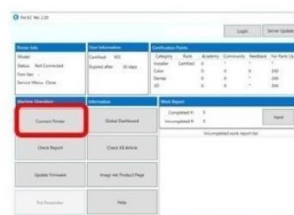
作業内容/Contents of work	時間/Time
ワイパー位置調整 Wiper position adjustment	3 min.

MG-640300 Wiper Position Adjustment

MG-640300 Wiper Position Adjustment Procedure

Step 1 / 11

Connect Peck2 with the machine to enter the service mode.



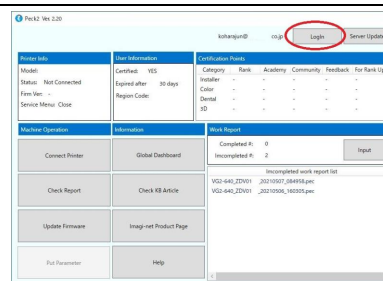
Step 2 / 11

Detail1: Start Peck2.



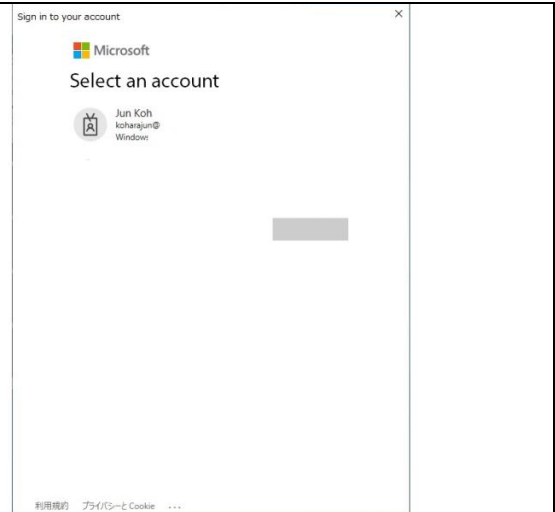
Step 3 / 11

Detail2: Click the [Login] button.



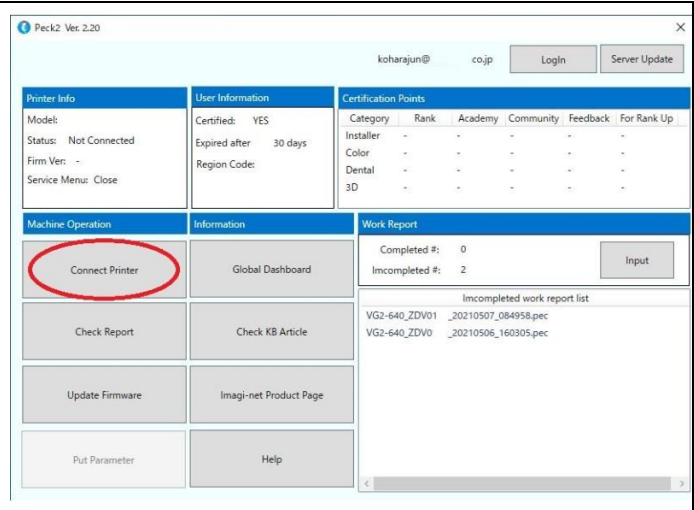
Step 4 / 11

Detail3: Log in with Imagi-net ID.



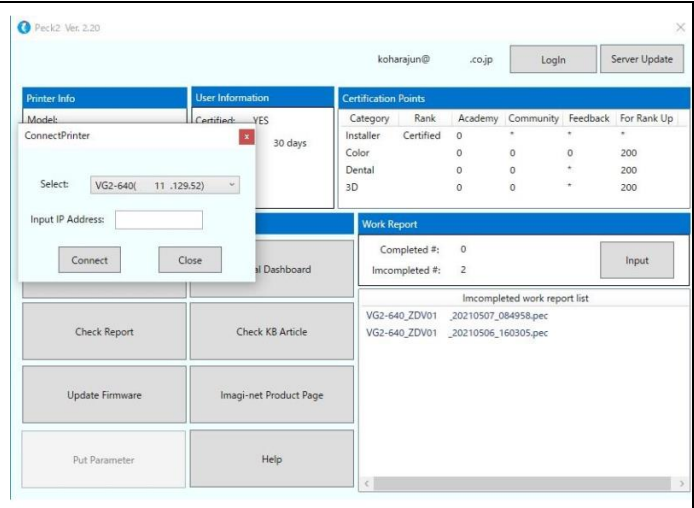
Step 5 / 11

Detail4: Click the [Connect Printer] button.



Step 6 / 11

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



Step 7 / 11

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

Peck2 Ver. 2.20

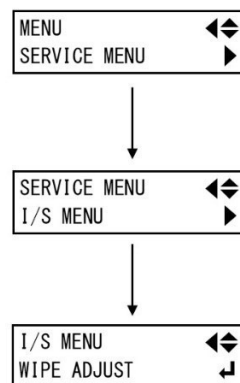
koharajun@ .co.jp Login Server Update

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

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

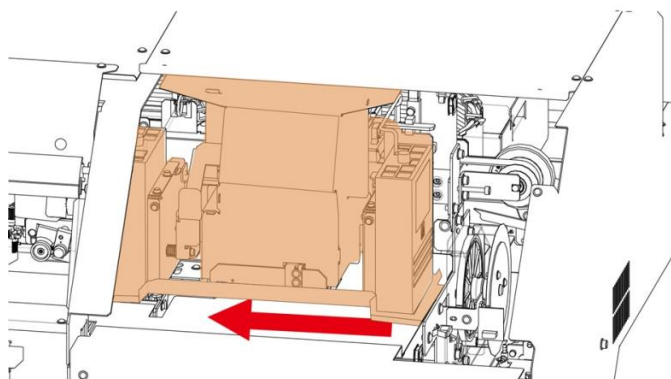
Step 8 / 11

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



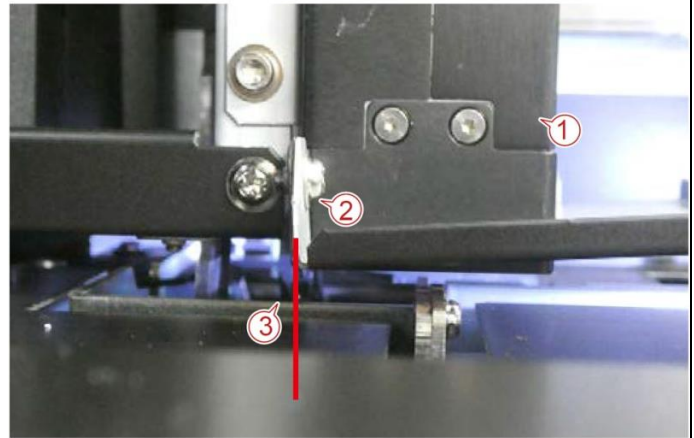
Step 9 / 11

Move the print-head carriage with [] [] keys up to the position where the wiper holder touches the lower part of the side surface of plate of right UV lamp. Press the [ENTER] key to set the reference position for the wiper.



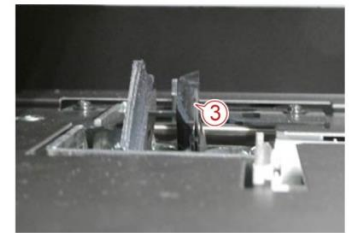
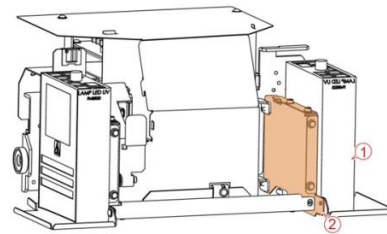
Step 10 / 11

Detail1: Adjust the reference position so that there is no gap between the wiper holder and the plate of right UV lamp.
(1. Right UV lamp, 2. Plate, 3. Wiper holder)



Step 11 / 11

Detail2: 1. Right UV lamp, 2. Plate, 3. Wiper holder



MG-640300 Tool Height Adjustment

MG-640300 Tool Height Adjustment

Information

Step 1 / 4

<Adjustment after Tool Height adjustment> □Tool Pressure Adjustment (see separate procedure)

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 1.5mm
1.5 mm hexagonal wrench



Step 3 / 4

Special tools

特殊治具/Special Tools

ST-006
WHITE DUMMY PEN



シツクネスゲージ
Thickness gauge



Step 4 / 4

Typical work time

作業時間/Typical work time

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

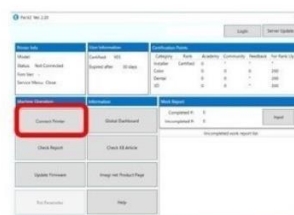
MG-640300 Tool Height Adjustment

MG-640300 Tool Height Adjustment

Procedure

Step 1 / 14

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



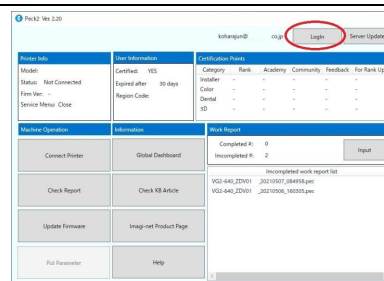
Step 2 / 14

Start Peck2.



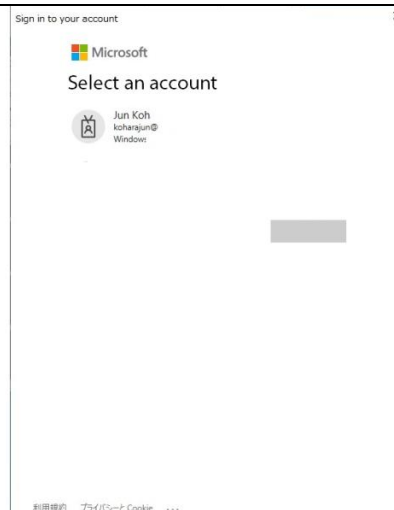
Step 3 / 14

Click the [Login] button.



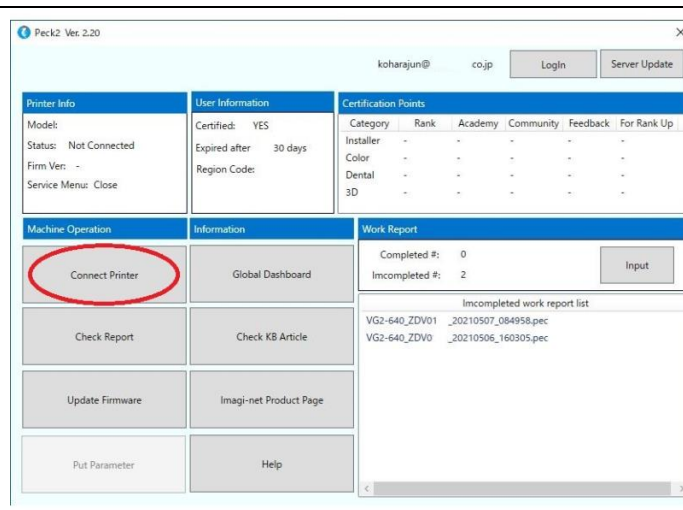
Step 4 / 14

Log in with Imagi-net ID.



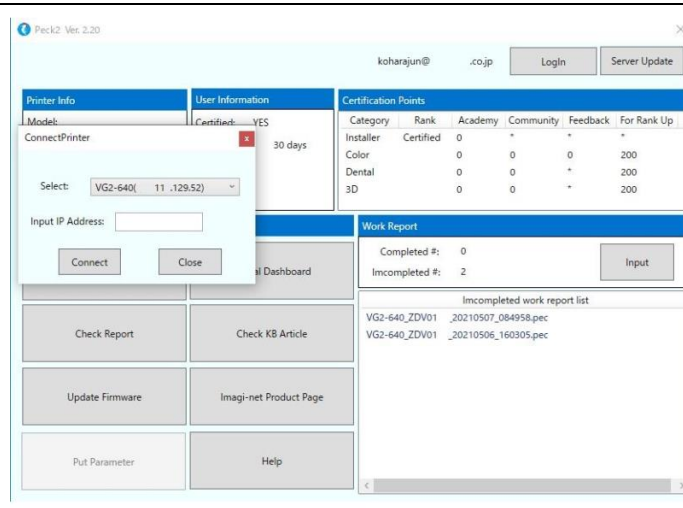
Step 5 / 14

Click the [Connect Printer] button.



Step 6 / 14

Enter IP address of the machine to be connected.



Step 7 / 14

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

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

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

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

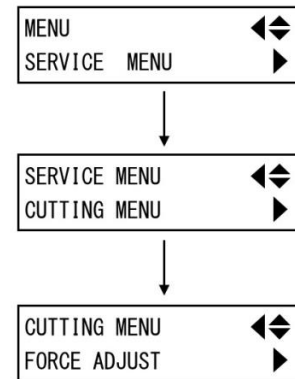
Incompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

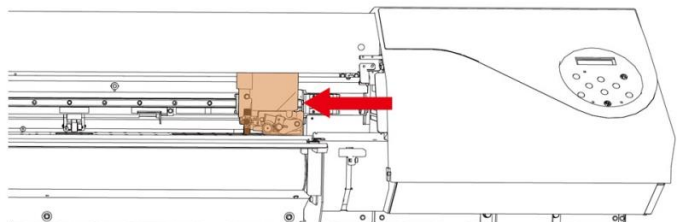
Step 8 / 14

Select [CUTTING MENU] > [FORCE ADJUST].



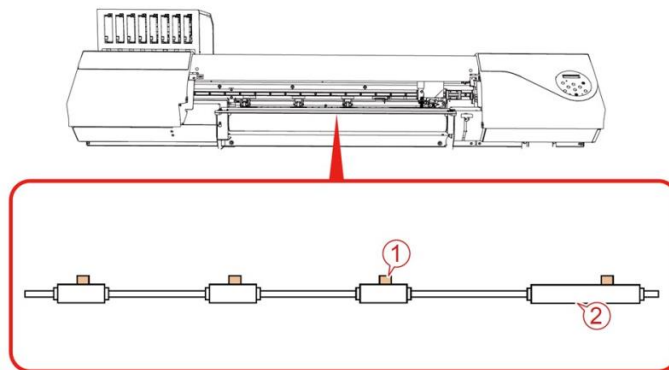
Step 9 / 14

When you enter the [FORCE ADJUST] menu, the tool carriage automatically moves to the position shown in the figure.



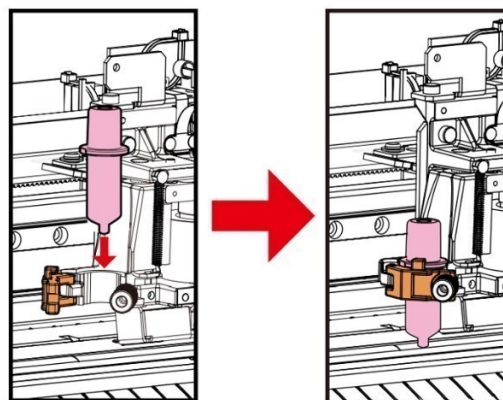
Step 10 / 14

Place the pinch rollers above the grit areas as shown in the figure. Then, lower the pinch rollers.



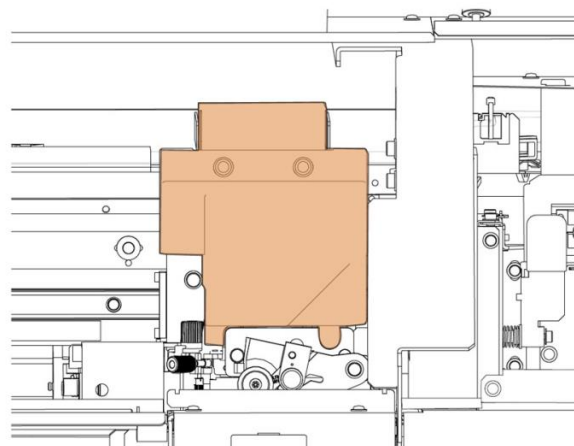
Step 11 / 14

Fasten the white dummy pen to the tool carriage.



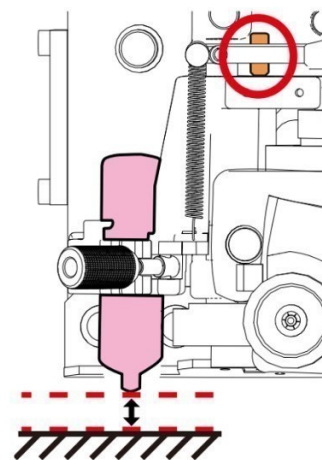
Step 12 / 14

Remove the tool carriage cover.



Step 13 / 14

Turn the adjustment screw with 1.5 mm hexagonal wrench. Turn the adjustment screw so that the space between the pen tip and the bed becomes 2.5 mm to 2.6 mm.



Step 14 / 14

Perform the tool pressure adjustment in reference to "Tool Pressure Adjustment".



次の手順

筆圧調整

Next Step

Tool Pressure Adjustment

MG-640300 Tool Pressure Adjustment

MG-640300 Tool Pressure Adjustment Information

Step 1 / 5

This adjustment must be performed after tool carriage replacement. Make sure to perform "Tool Height Adjustment" before performing this adjustment. This adjustment is for adjusting the current supplied to the solenoid of the tool carriage to ensure that correct pressure would be added to the blade when cutting.



Step 2 / 5

Necessary tools

一般ツール/General Tool

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



Step 3 / 5

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 4 / 5

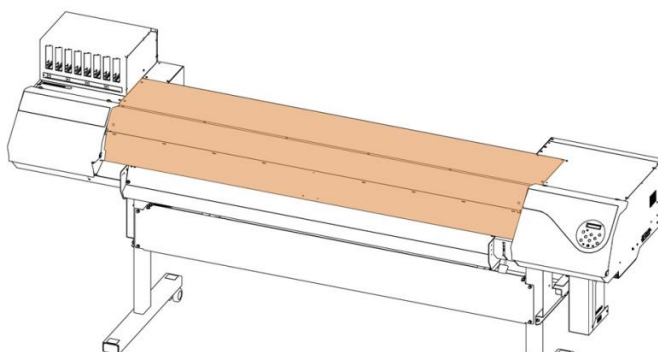
Typical work time

作業時間/Typical work time

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

Step 5 / 5

Cover that needs to be removed

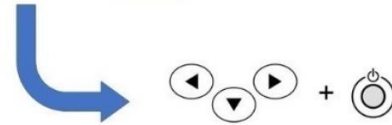
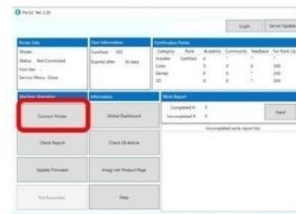


MG-640300 Tool Pressure Adjustment

MG-640300 Tool Pressure Adjustment Procedure

Step 1 / 14

Connect Peck2 with the machine to enter the service mode.



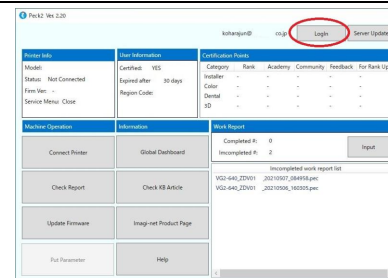
Step 2 / 14

Detail1: Start Peck2.



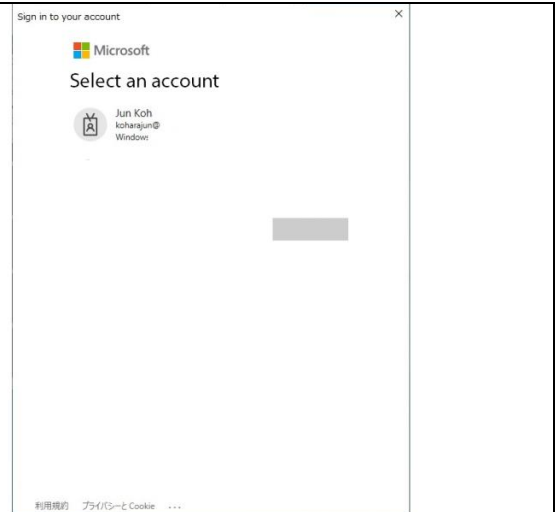
Step 3 / 14

Detail2: Click the [Login] button.



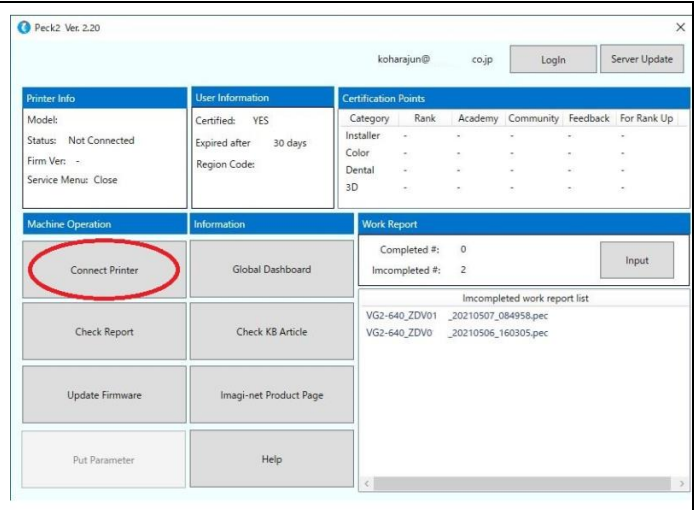
Step 4 / 14

Detail3: Log in with Imagi-net ID.



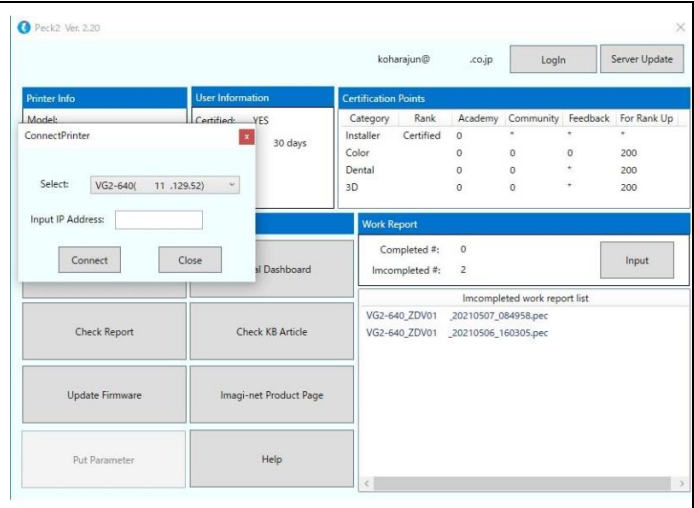
Step 5 / 14

Detail4: Click the [Connect Printer] button.



Step 6 / 14

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



Step 7 / 14

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

Peck2 Ver. 2.20

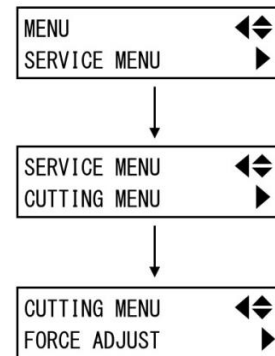
koharjun@ .co.jp Login Server Update

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

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

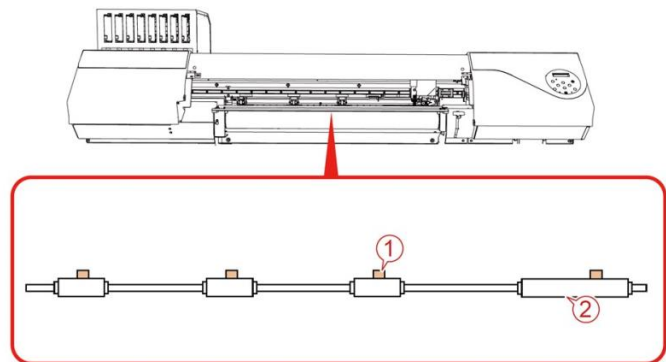
Step 8 / 14

Select [CUTTING MENU] > [FORCE ADJUST]. When you enter the [FORCE ADJUST] menu, the tool carriage automatically moves to the adjustment position.



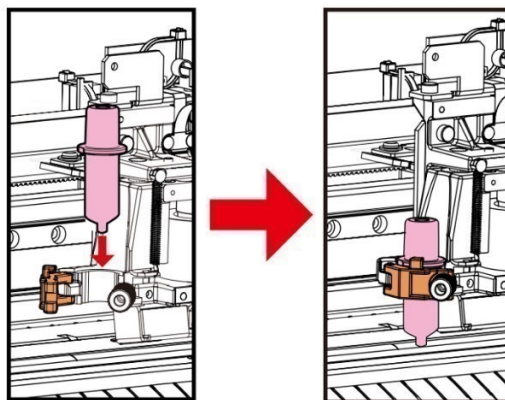
Step 9 / 14

Place the pinch rollers above the grit areas as shown in the figure. Then, lower the pinch rollers. (1. Pinch roller, 2. Grit roller)



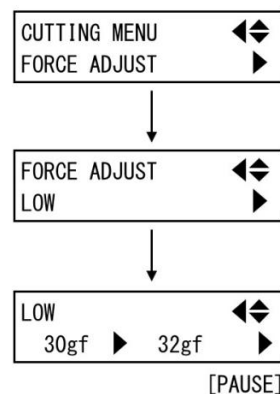
Step 10 / 14

Fasten the white dummy pen to the tool carriage.



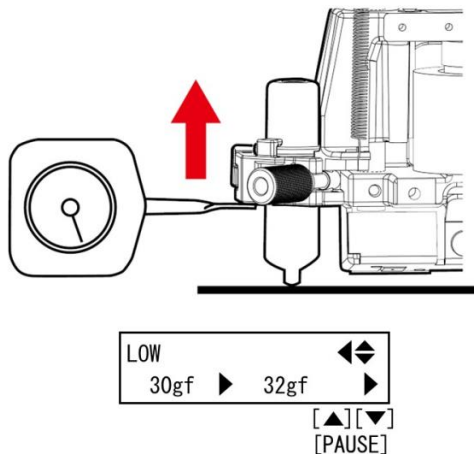
Step 11 / 14

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



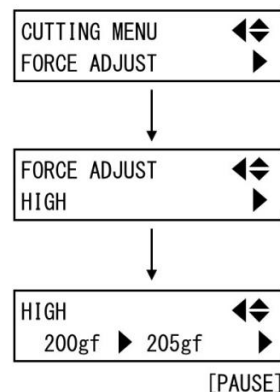
Step 12 / 14

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



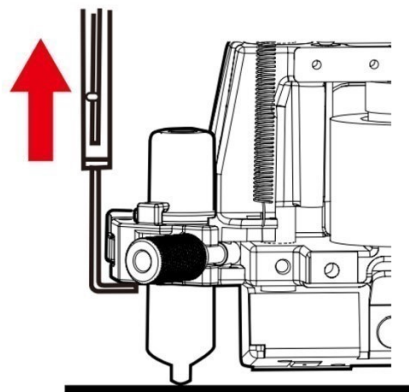
Step 13 / 14

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



Step 14 / 14

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



MG-640300 UV Lamp Height Adjustment

MG-640300 UV Lamp Height Adjustment Information

Step 1 / 3

Necessary tools

一般ツール/General Tool

六角レンチ 2.5mm (100mm以上推奨)
3.0 mm hexagonal wrench
(Length: 100mm or more recommended)



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



Step 2 / 3

Special tools

特殊治具/Special Tools

シクネスゲージ
Thickness gauge



Step 3 / 3

Typical work time

作業時間/Typical work time

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

MG-640300 UV Lamp Height Adjustment

MG-640300 UV Lamp Height Adjustment Procedure

Step 1 / 12

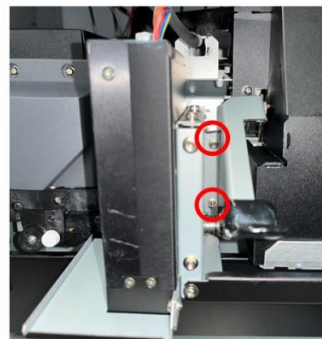
Lower the loading lever.



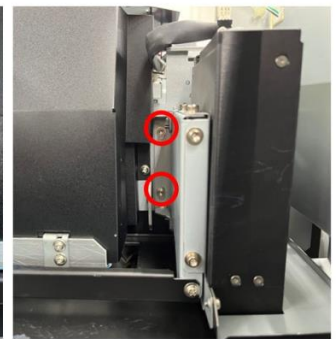
Step 2 / 12

Loosen the screws that secure the UV lamp plate. *These screws are not to be removed.

Left side



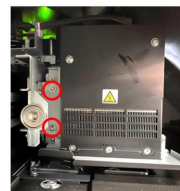
Right side



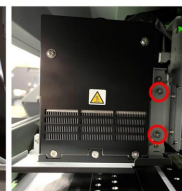
Step 3 / 12

Loosen the screws and raise the UV lamp together with the plate to the highest position. Then loosely tighten

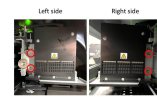
Left side



Right side



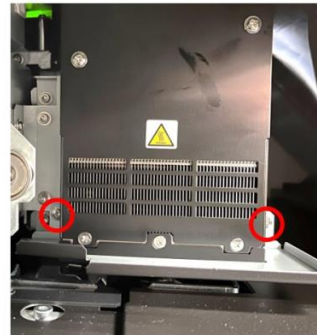
the screws to temporarily fix the lamp.



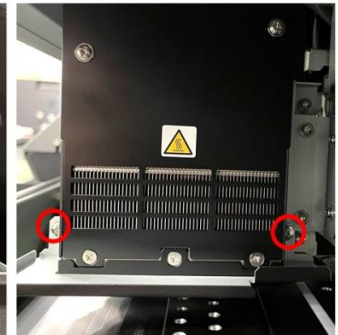
Step 4 / 12

Remove left and right UV light reflection reducing plates.

Left side

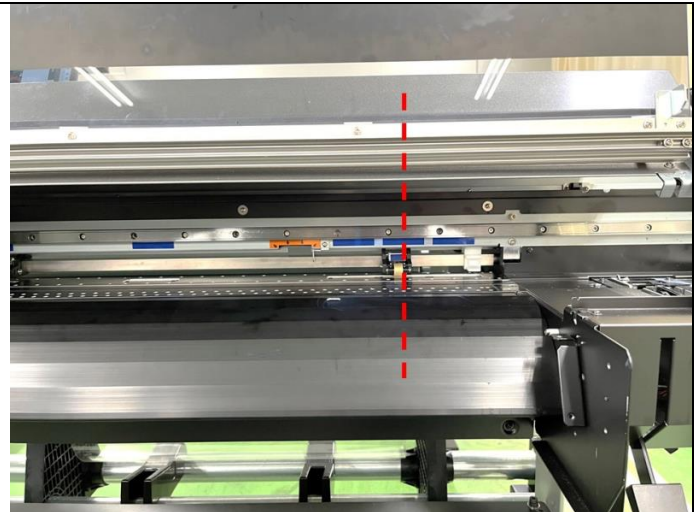


Right side



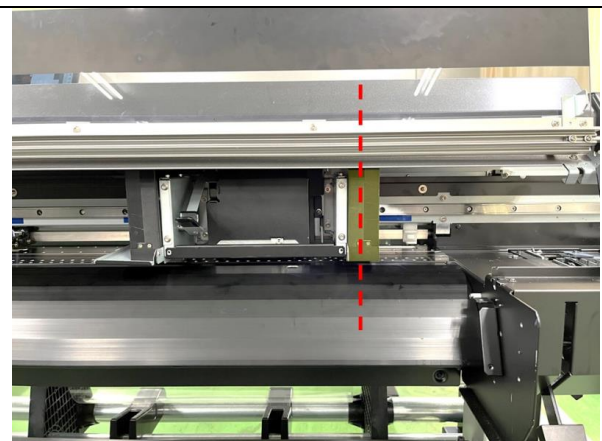
Step 5 / 12

Detail1: Move the UV lamp to the center part of the middle grit roller (one of the three grit rollers at the right end of the bed).



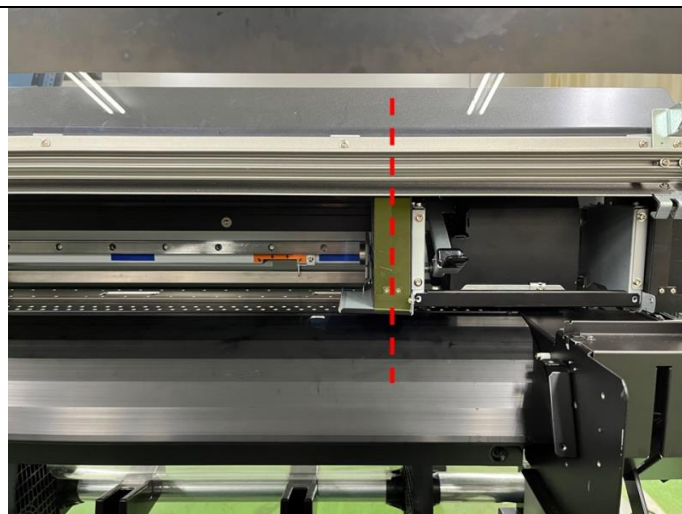
Step 6 / 12

Detail2: In the case of right UV Lamp



Step 7 / 12

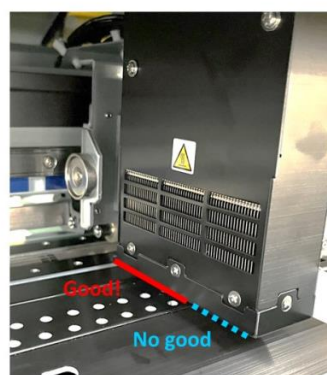
In the case of left UV Lamp



Step 8 / 12

Measure the gap at the position near the exhaust outlet side of UV lamp. Measure the gap at the back of the UV lamp at the bed part. The height cannot be measured at the apron part.

Side view

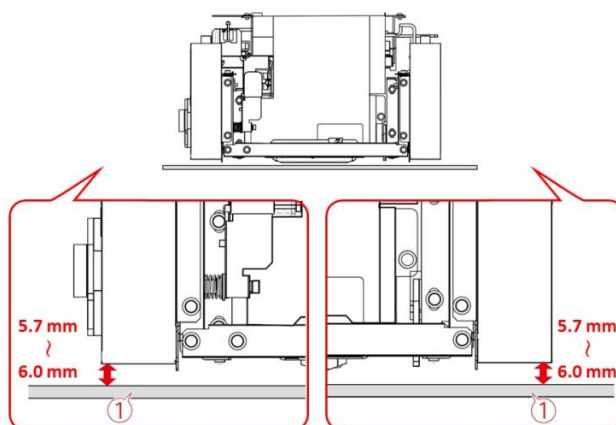


Front view



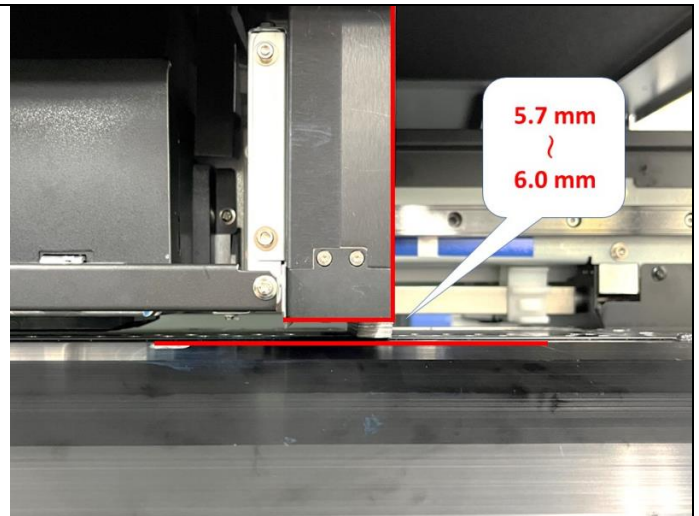
Step 9 / 12

Adjust the UV lamp so that the gap between the bottom of the lamp and the bed becomes 5.7 mm to 6.0 mm. Then fully tighten the screws that secure the UV lamp plate to fix the lamp.



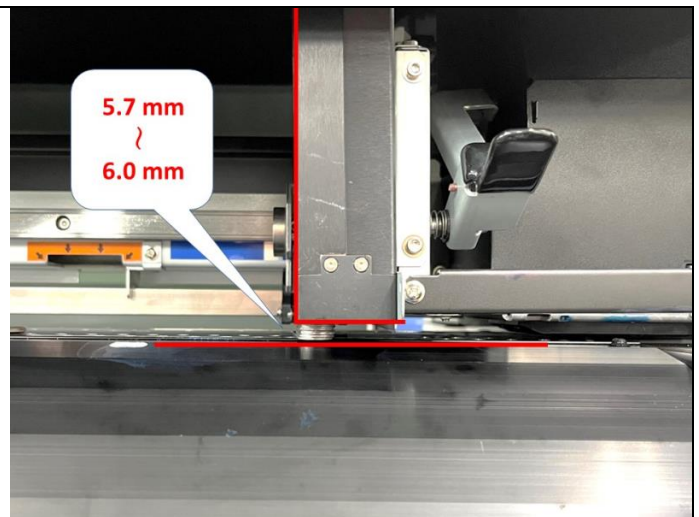
Step 10 / 12

Detail1: In the case of right UV Lamp



Step 11 / 12

Detail2: In the case of left UV Lamp



Step 12 / 12

Attach left and right UV light reflection reducing plates.

Left side

Right side



MG-640300 Crop Mark Sensor Adjustment

MG-640300 Crop Mark Sensor Adjustment Information

Step 1 / 3

This adjustment is for adjusting the sensitivity of the crop mark sensor. If it is not adjusted properly, crop marks cannot be read correctly, leading to problems such as print and cut misalignment. Cases you need to perform this adjustment: " After replacing or adjusting the crop mark sensor or tool carriage board " In case you accidentally touch the voltage adjustment VR " When the distance between the crop mark sensor and the bed surface is changed The pre-heater, print heater and dryer must be turned off during this adjustment. In case you perform this adjustment using the media the user uses, the sensor may not be able to detect crop marks printed on Roland original media.



Step 2 / 3

Necessary tools

一般ツール/General Tool

白いステッカー・メディア (115331推奨) White sticker media (115331 recommended)	
マイナスドライバ (1.0~2.0mm幅) Flat head screwdriver (1.0 to 2.0 mm)	
プラスドライバー No.2 No.2 Phillips screwdriver	

Step 3 / 3

Typical work time

作業時間/Typical work time

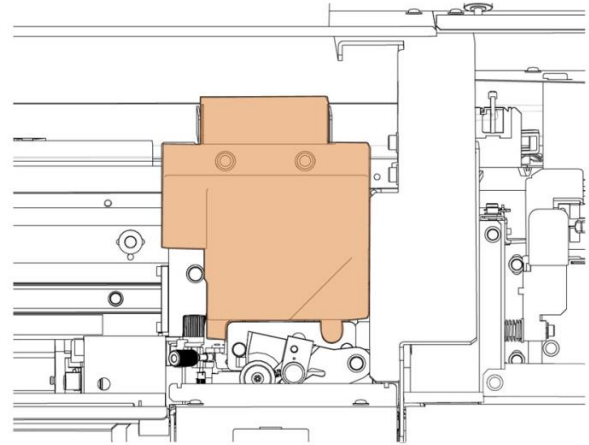
作業内容/Contents of work	時間/Time
クロープマークセンサー調整 Crop mark sensor adjustment	10 min.

MG-640300 Crop Mark Sensor Adjustment

MG-640300 Crop Mark Sensor Adjustment Procedure

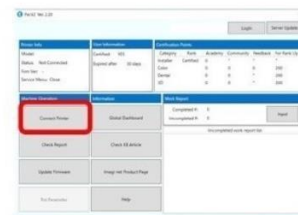
Step 1 / 12

Cover that needs to be removed



Step 2 / 12

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



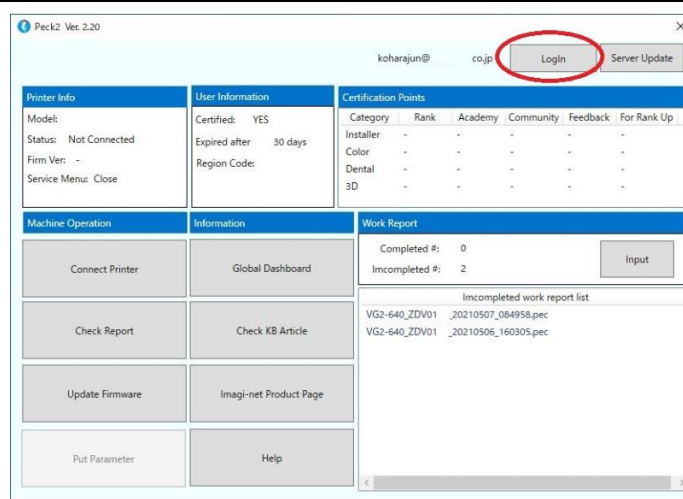
Step 3 / 12

Detail1: Start Peck2.



Step 4 / 12

Detail2: Click the [Login] button.



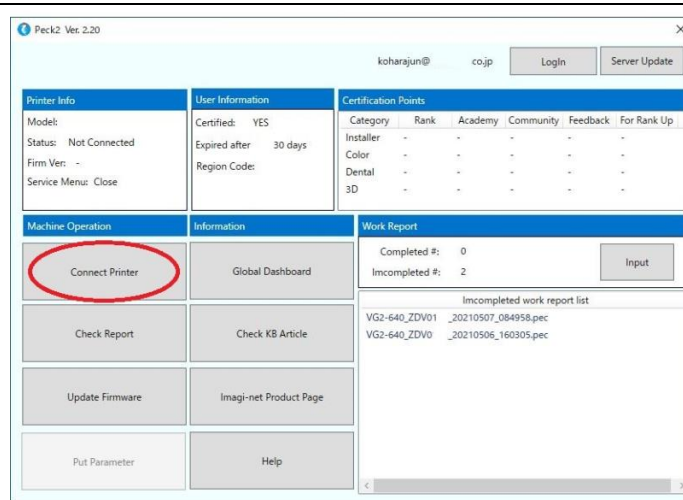
Step 5 / 12

Detail3: Log in with Imagi-net ID.



Step 6 / 12

Detail4: Click the [Connect Printer] button.



Step 7 / 12

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

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

Machine Operation	Information
Connect Printer	Global Dashboard
Check Report	Check KB Article
Update Firmware	Imagi-net Product Page
Put Parameter	Help

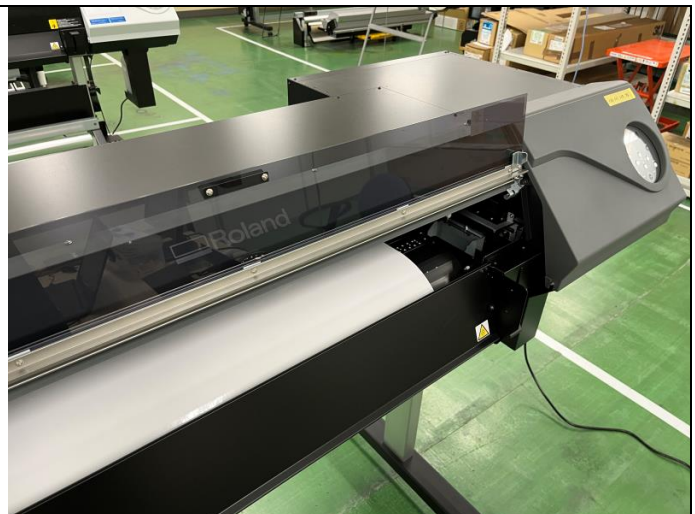
Step 8 / 12

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

Machine Operation	Information
Connect Printer	Global Dashboard
Check Report	Check KB Article
Update Firmware	Imagi-net Product Page
Put Parameter	Help

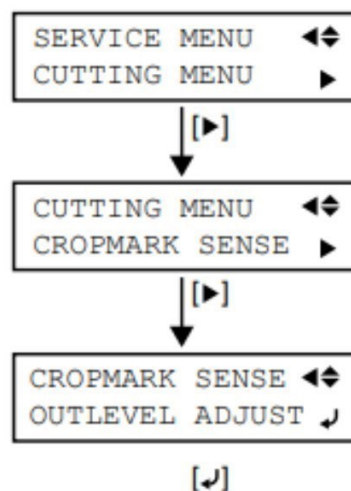
Step 9 / 12

Set IJ5331 on the printer.



Step 10 / 12

Select [CROPMARK SENS] > [OUTLEVEL ADJUST], and press the [ENTER] key.



Step 11 / 12

Adjust the VR so that the value in square brackets shown on the bottom of the LCD screen becomes 2.4 V.



Min2.4V Max2.7V ◀
[2.4V]

1. VR

Step 12 / 12

Perform [OUTLEVEL CHECK]. Confirm that the display is 4.8 V ± 0.1 V. If not, carry out the adjustment again.

Min2.4V Max4.8V ◀
[4.8V]

MG-640300 UV Lamp Illuminance Measurement

MG-640300 UV Lamp Illuminance Measurement Information

Step 1 / 5

Necessary tools

一般ツール/General Tool

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

Step 2 / 5

Special Tools

特殊治具/Special Tools

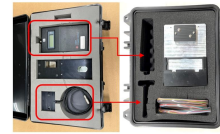
1000021605 SET,PWR-M C6080-385-NF,E15348-01 SV	
	
6000005895 SET,PWR-M C6080-385-NF SV CG2162	
	

Step 3 / 5

You can transfer the illuminance measuring tool to the case for the measuring jig and carry them together.



The jig for LEF included with the illuminance meter is not used.



Step 4 / 5

Be careful not to lose the screws for attaching the light-receiving part.



Step 5 / 5

Typical work time

作業時間/Typical work time

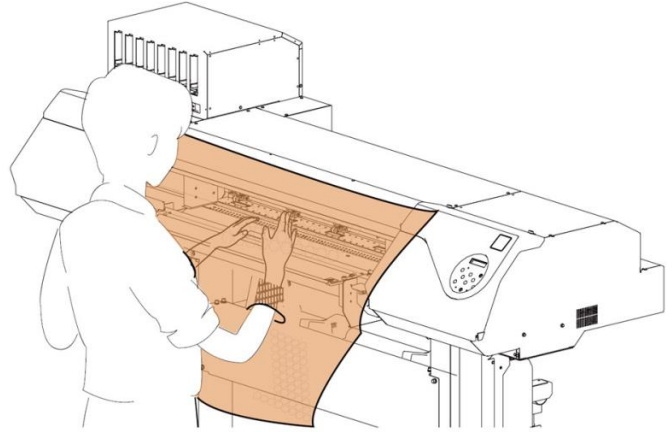
作業内容/Contents of work	時間/Time
UVランプ照度測定 UV lamp illuminance measurement	30 min.

MG-640300 UV Lamp Illuminance Measurement

MG-640300 UV Lamp Illuminance Measurement Procedure

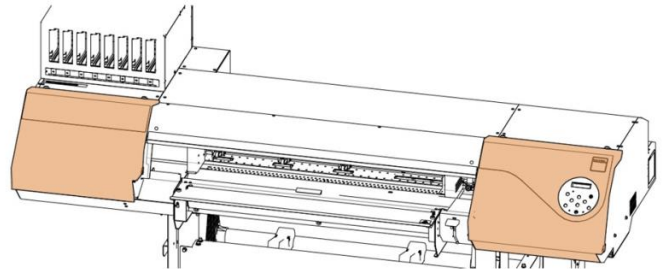
Step 1 / 36

Always use the UV protection sheet during this work, or ink will harden and clog inside the ink line.



Step 2 / 36

Remove the covers.



Step 3 / 36

Attach the light receiving part of illuminance measuring tool to the measuring jig.



Step 4 / 36

Remove the screws that secure UV lamp.

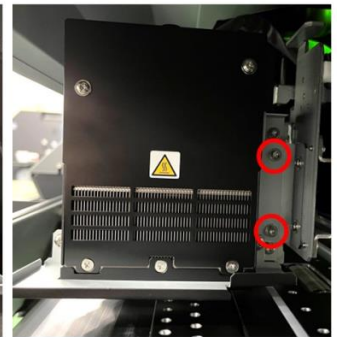


Step 5 / 36

Remove the screws that secure UV lamp.

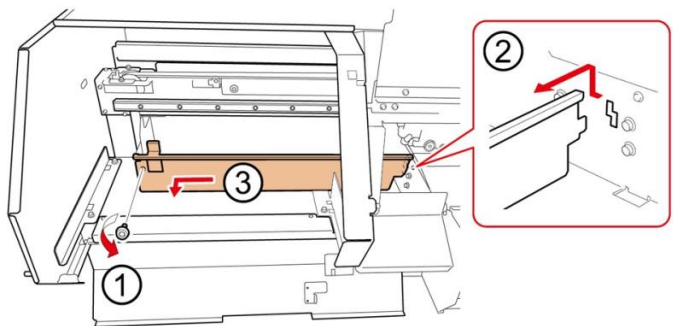
Left side

Right side



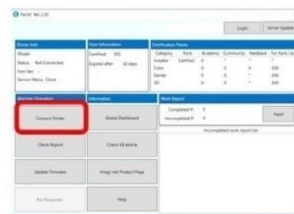
Step 6 / 36

Remove the cut rail on the maintenance space on the left.



Step 7 / 36

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



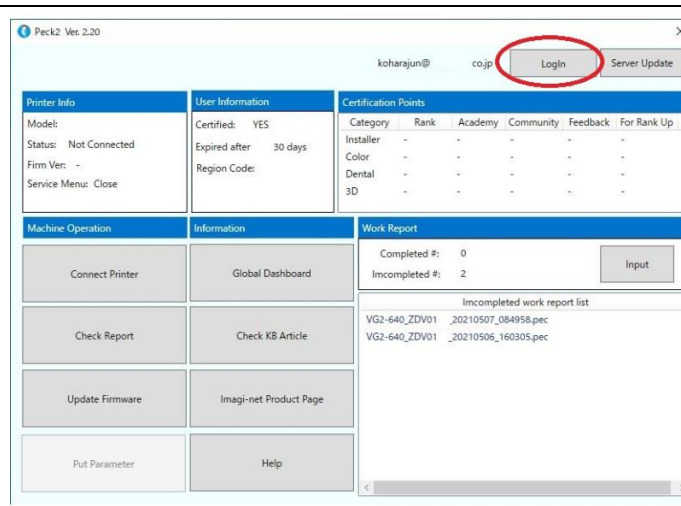
Step 8 / 36

Detail1: Start Peck2.



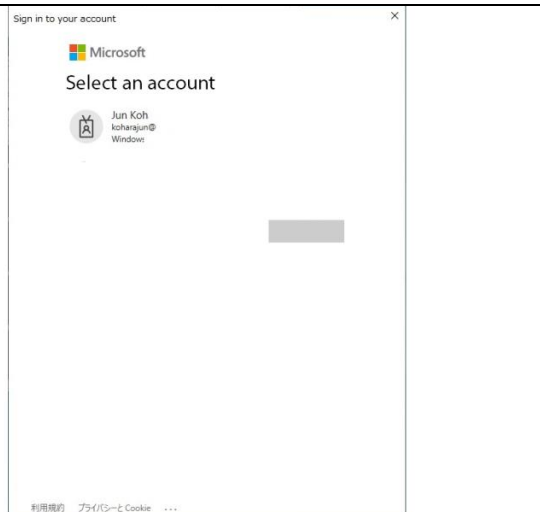
Step 9 / 36

Detail2: Click the [Login] button.



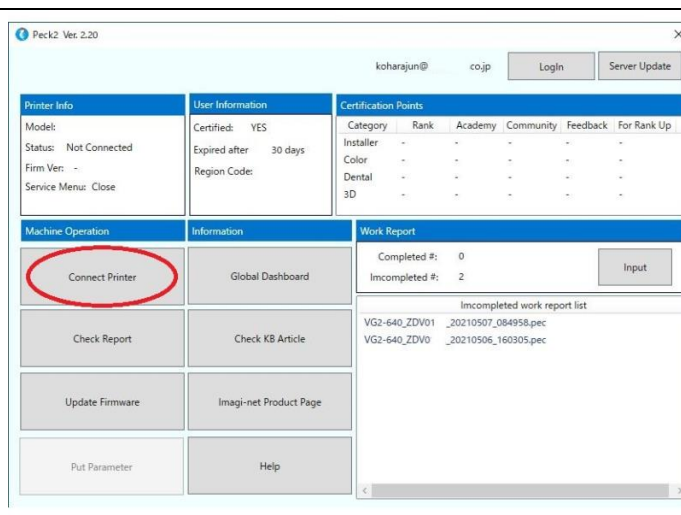
Step 10 / 36

Detail3: Log in with Imagi-net ID.



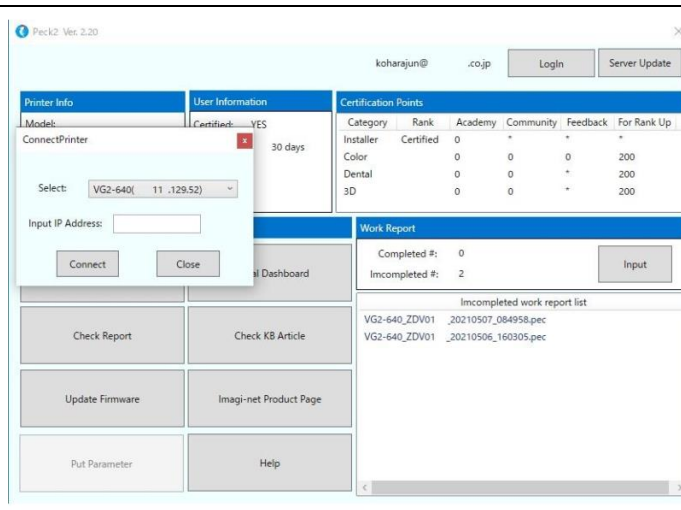
Step 11 / 36

Detail4: Click the [Connect Printer] button.



Step 12 / 36

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



Step 13 / 36

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

Peck2 Ver. 2.20

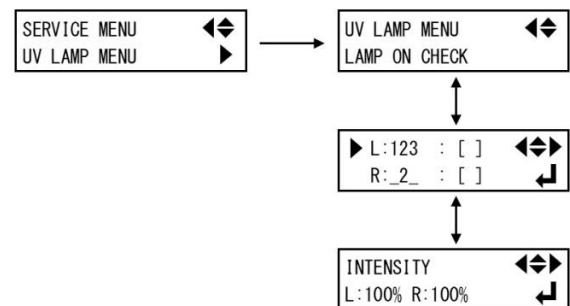
koharajun@ .co.jp Login Server Update

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

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

Step 14 / 36

Select the lamp that you are going to measure illuminance by [SERVICE MENU] > [UV LAMP MENU] > [LAMP ON CHECK] > [L:--- R:---]. Print-head carriage moves to the print area.



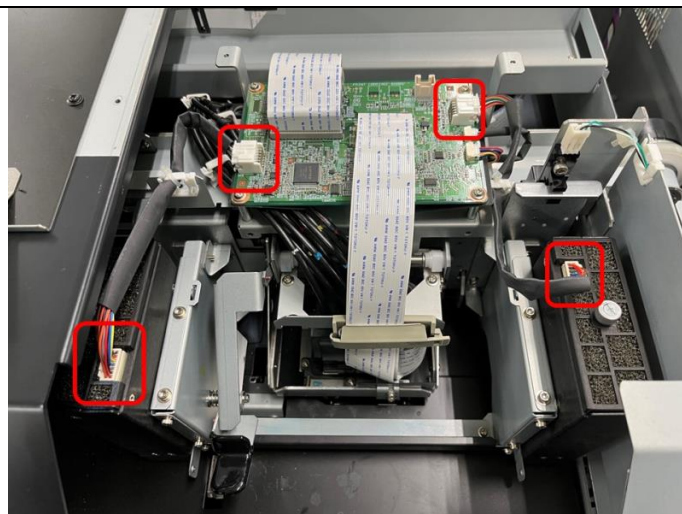
Step 15 / 36

Do not light the other lamp that you are not going to measure illuminance. And do not exit from this menu [L:--- R:---] yet. If you exit this menu, the print-head carriage moves to the right.



Step 16 / 36

Disconnect four connectors of UV lamp.



Step 17 / 36

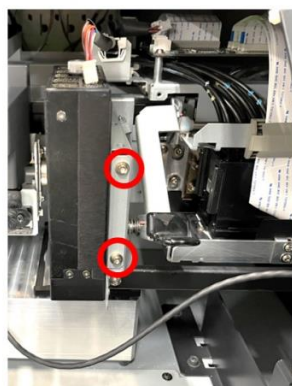
Put the measuring jig on the maintenance space. Put the display part of the measuring tool on the top part of the machine so that you can see the results on the display even after the covers are attached.



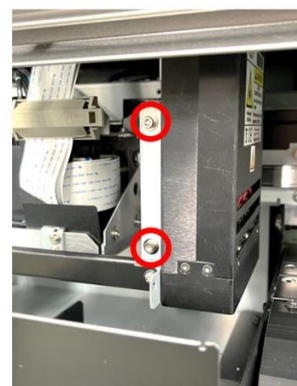
Step 18 / 36

Move the print-head carriage to the left by hand, and remove the front screws of UV lamp.

Left side



Right side



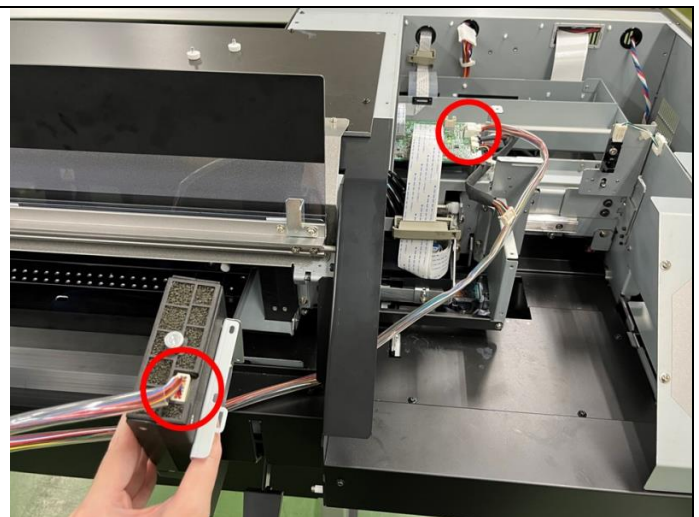
Step 19 / 36

Remove the UV light reflection reducing plate. Remove only UV light reflection reducing plate. If the plate is removed also, UV lamp height adjustment becomes necessary after this work.



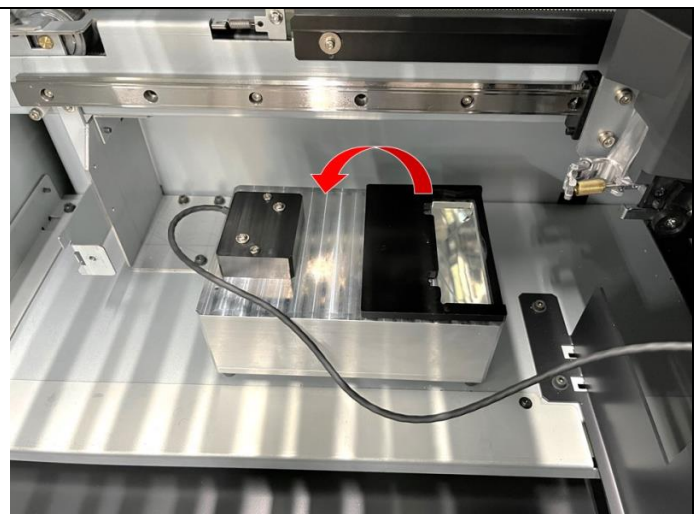
Step 20 / 36

Attach the measuring jig cable to the UV lamp that you are going to measure illuminance.



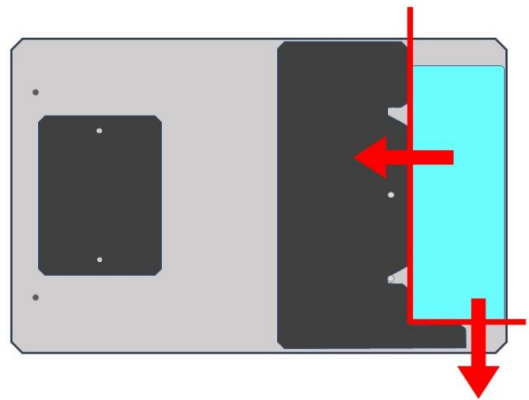
Step 21 / 36

Rotate the measuring jig cover 180 degrees.



Step 22 / 36

Put the UV lamp on the measuring jig,
and fix it by pressing it in the directions
of the arrows to the jig cover.



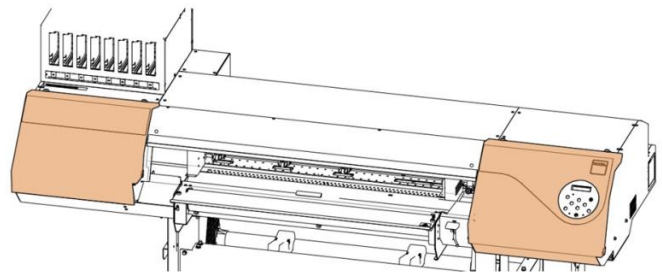
Step 23 / 36

Do not make the UV lamp float from the
jig.



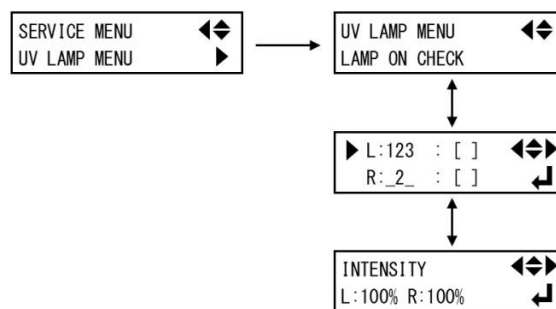
Step 24 / 36

Since the UV lamp does not light when
covers are open, temporarily fix the
covers.



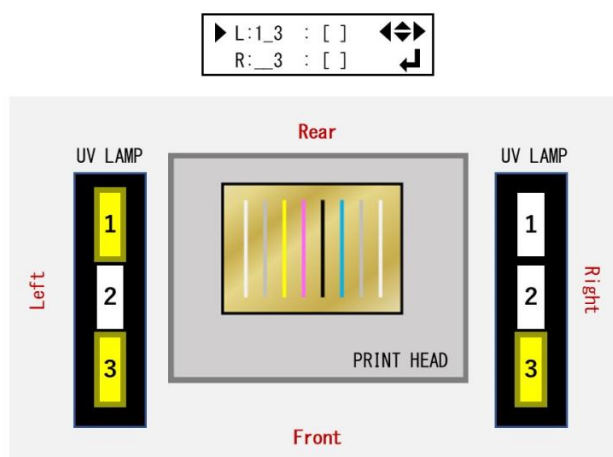
Step 25 / 36

Take a measurement by [SERVICE MENU] > [UV LAMP MENU] > [LAMP ON CHECK] > [L:--- R:---]. Press the [◀] [▶] [↵] [↶] keys to select the part of UV lamp for measurement. Press the [ENTER] key to light the UV lamp. If 1, 2 or 3 is displayed, the following portion of the lamp corresponding to the number lights up.



Step 26 / 36

Detail1: The numbers represent 1: Rear, 2: Center, and 3: Front, respectively. The portion that the number is displayed lights up. If the number is not displayed, that portion of the light is off.



Step 27 / 36

Do not exit from this menu [L:--- R:---] yet. If you exit this menu, the print-head carriage moves to the right.



Step 28 / 36

Light all [1 2 3] and confirm that the results are within the value written on the jig.



Step 29 / 36

Detail1: Values vary depending on the measuring instrument. Example: 320 ~ 440mW/cm2



Step 30 / 36

To measure the UV lamp on the opposite side, replace the cable.



Step 31 / 36

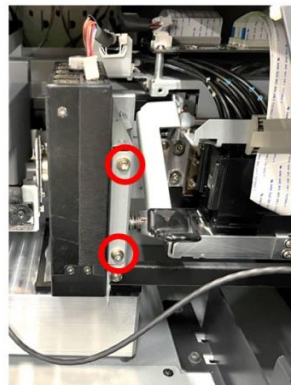
After all measurements are completed, attach the UV light reflection reducing plate to the UV lamp.



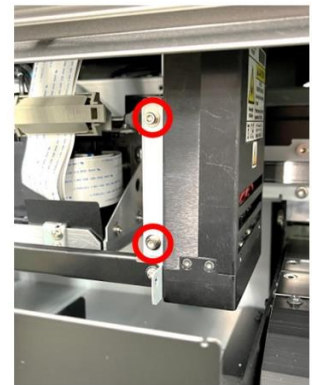
Step 32 / 36

Tighten the screws at the front of the UV lamp to secure the lamp to the print-head carriage.

Left side

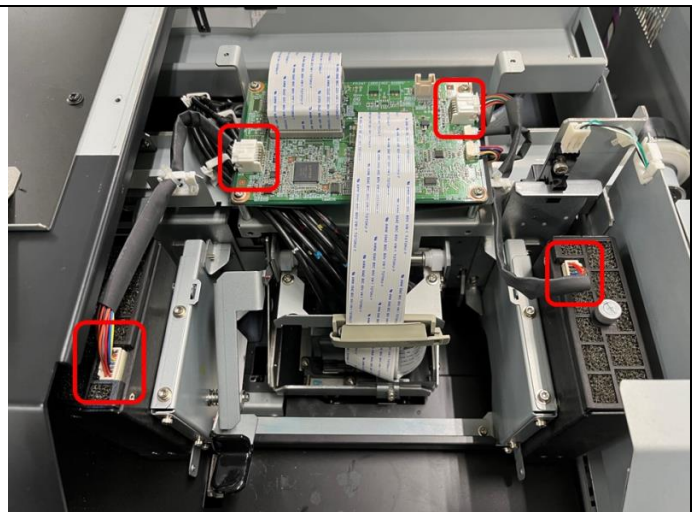


Right side



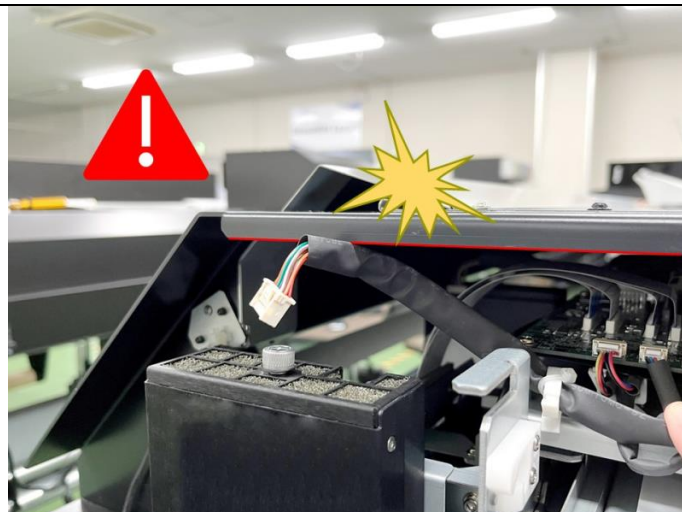
Step 33 / 36

Attach the cable connectors of the UV lamp.



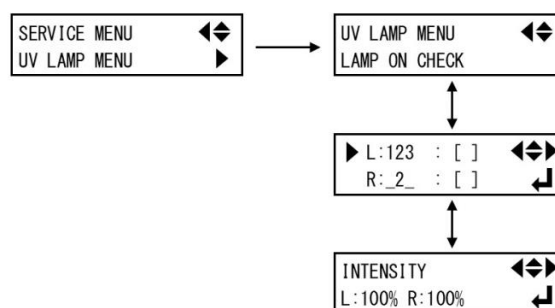
Step 34 / 36

Be careful that the jig cables do not get caught by the frame, etc., when the print-head carriage is moved to the print area.



Step 35 / 36

Press the left key to exit [L:--- R:---] menu. Print-head carriage moves to the right.



Step 36 / 36

Attach other removed covers and screws.

