

The following
material is
confidential.



XP-640

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XP-640 Installation

XP-640 Installation Information

Step 1 / 3

General Tools

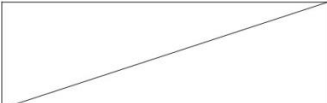
一般ツール/General Tool

六角レンチ(付属品) hexagonal wrench(accessory)	
パイプ(付属品) Pipe(accessory)	
No1 プラスドライバー No1 Phillips screwdriver	

Step 2 / 3

Special tools

特殊治具/Special Tools

Step 3 / 3

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
開梱 unpacking	60 min.
インク充填 Ink Filling	40 min.

XP-640 Installation

XP-640 Installation Procedure

Step 1 / 147

Open the top lid.



Step 2 / 147

Take out all the boxes and parts inside



Step 3 / 147

Check accessories and parts for missing items.



Step 4 / 147

Detail 1: Accessory 1



Step 5 / 147

Detail 2: Accessory 2



Step 6 / 147

Detail 3: Accessory 3



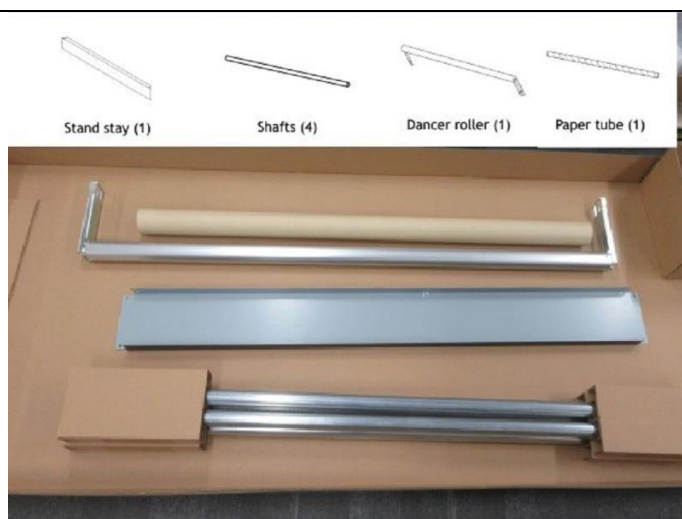
Step 7 / 147

Detail 4: Accessory 4



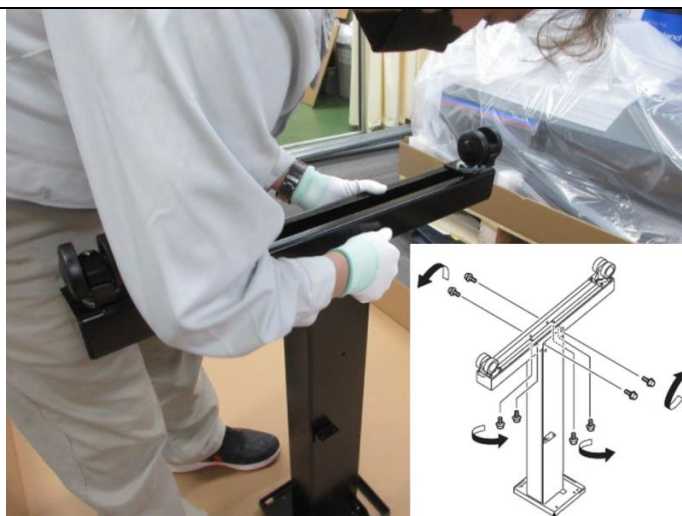
Step 8 / 147

Detail 5: Accessory 5



Step 9 / 147

Temporarily tighten the caster with 8 bolts.



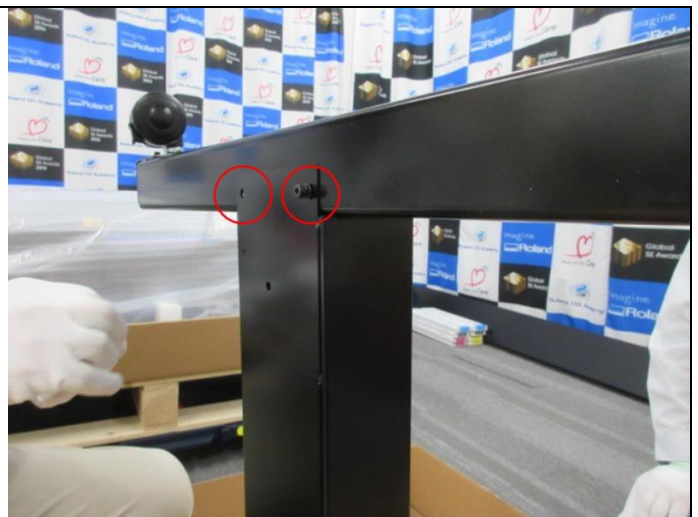
Step 10 / 147

Tighten the bottom 4 bolts.



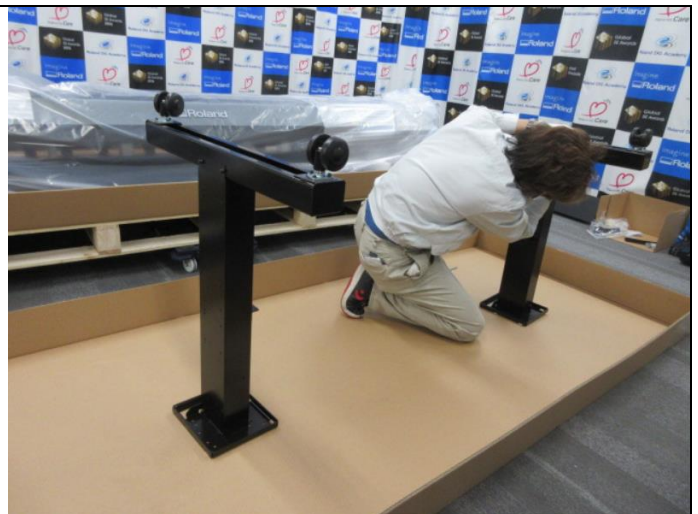
Step 11 / 147

Tighten the 4 side bolts.



Step 12 / 147

Assemble the another stand in the same way.



Step 13 / 147

Place the left and right stands parallel to each other with a distance of 1800 mm (L-shaped bracket inside and the side with the hole (A) facing down).



Step 14 / 147

Place the stand stay on the foot of the stand.



Step 15 / 147

Temporarily fasten the stand stay with 8 bolts.



Step 16 / 147

Tighten the bottom 4 bolts.



Step 17 / 147

Tighten the four side bolts.



Step 18 / 147

(Caution) Always have two persons hold each stand stay leg to raise the stand, otherwise it may be bent.



Step 19 / 147

Two persons should raise the stand.



Step 20 / 147

(CAUTION) The printer must be lifted by 6 or more people.



Step 21 / 147

(Caution) Keep your hands on the printer until the temporary assembling is completed.



Step 22 / 147

Lift up the printer.



Step 23 / 147

Detail 1: Remove the transparent film covering the printer.



Step 24 / 147

Detail 2: Remove the sponge under the back of the printer to make it easier to hold the printer.



Step 25 / 147

Move the stand under the printer.



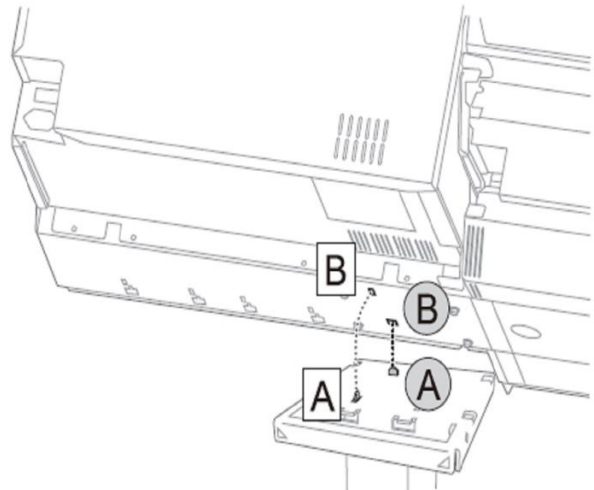
Step 26 / 147

Insert the protrusion of the stand into the slit of the printer.



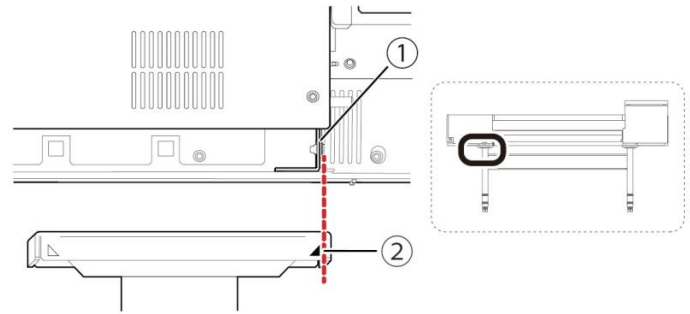
Step 27 / 147

Detail 1: (Note: There are two protrusions and two slits on each side, so be sure to fit all four of them.)



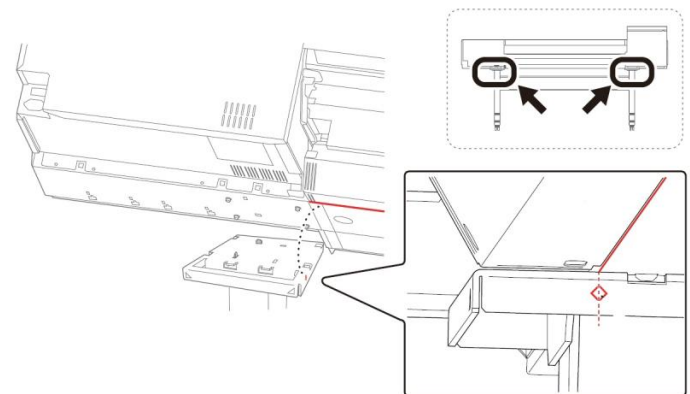
Step 28 / 147

Detail 2: Align left and right



Step 29 / 147

Detail 3: Align the stand in the front-back direction.



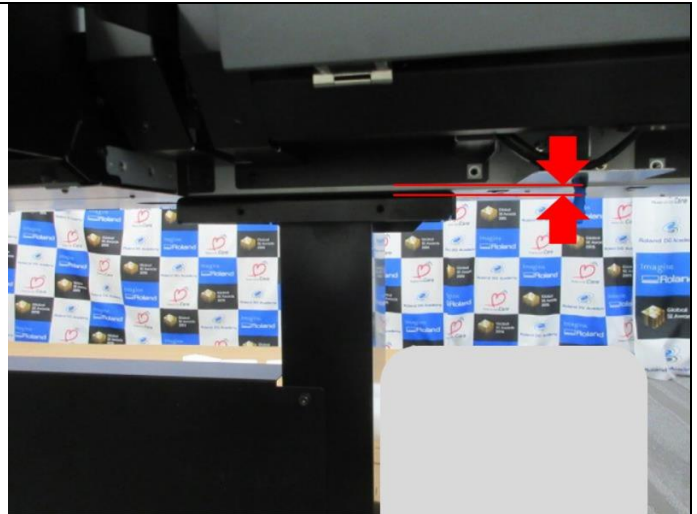
Step 30 / 147

Tighten the 8 bolts temporarily.



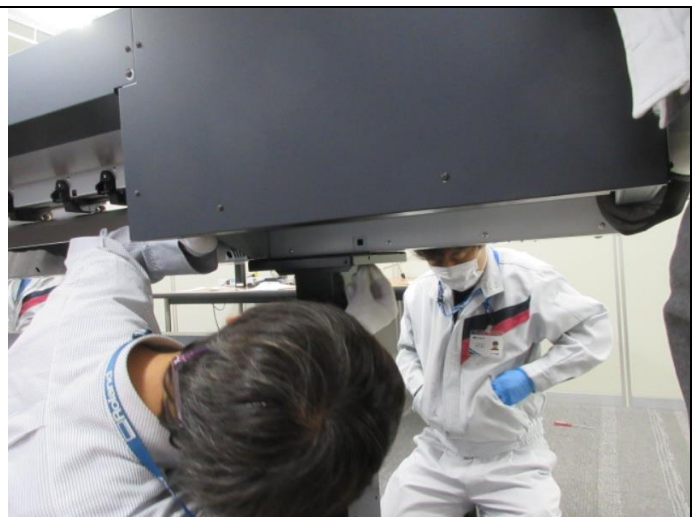
Step 31 / 147

Check that there is no gap between the printer and the stand.



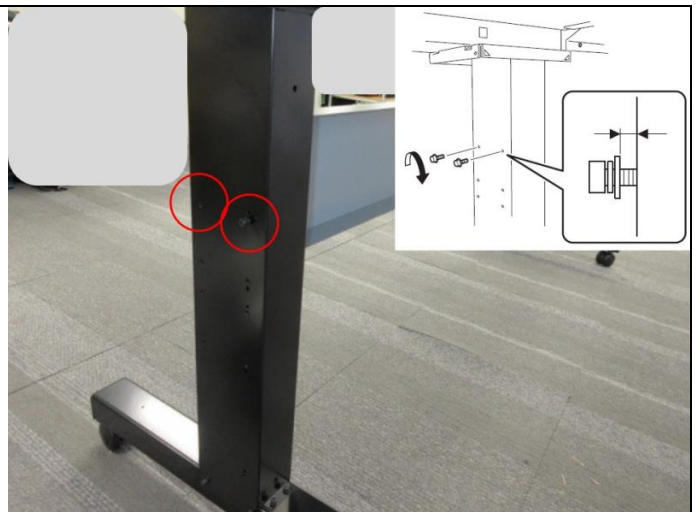
Step 32 / 147

Fully tighten the eight bolts.



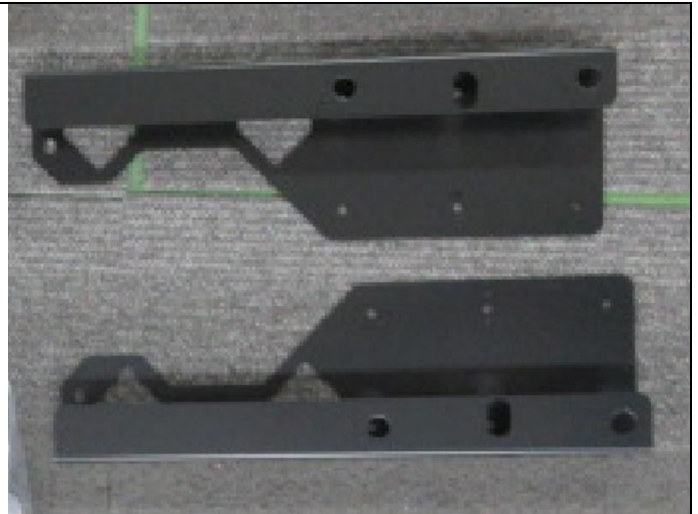
Step 33 / 147

Make a gap of about 5 mm between the printer and the stand on the left side when viewed from the rear of the printer and tighten the two bolts temporarily.



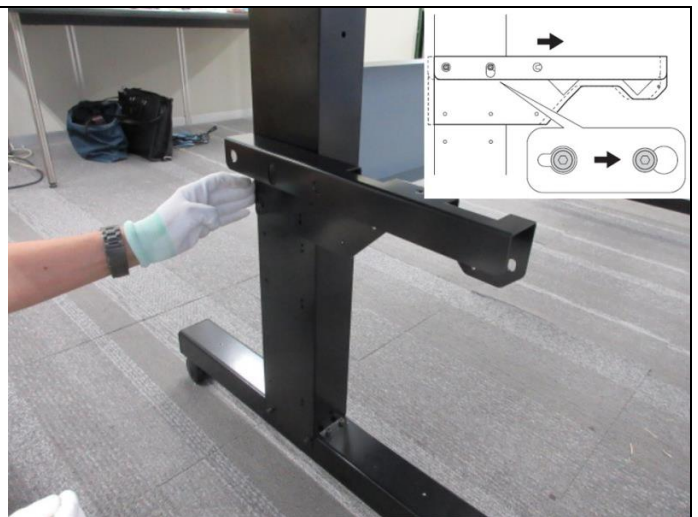
Step 34 / 147

(Note) There is a distinction between left and right arms.



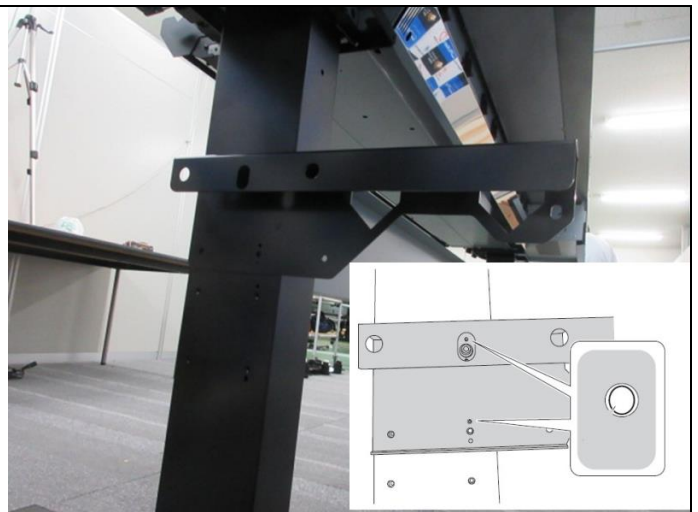
Step 35 / 147

Assemble the left arm to the temporarily tightened bolts and slide it to the right.



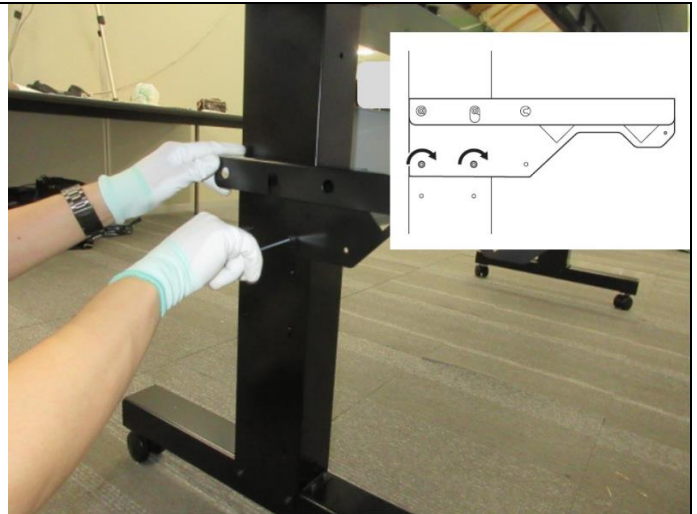
Step 36 / 147

Adjust the arm so that the bolt is in the center of the hole when looking at the bolt through the hole in the stand.



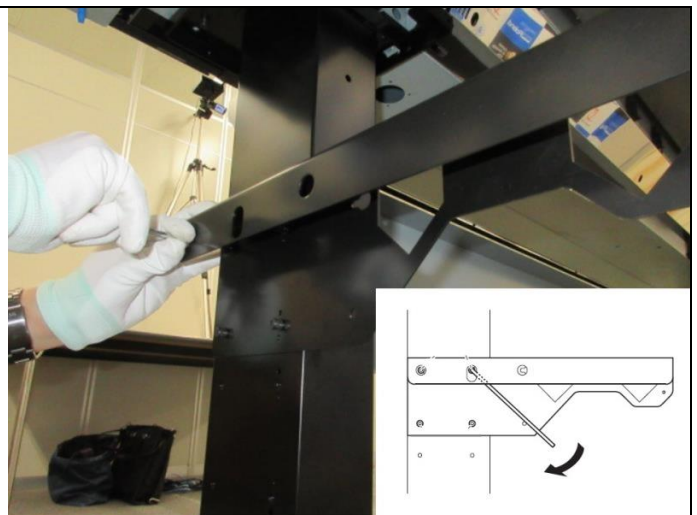
Step 37 / 147

Lightly tighten the bottom two bolts on the arm.



Step 38 / 147

Tighten the upper two bolts.



Step 39 / 147

Tighten the bottom two bolts



Step 40 / 147

Assemble the other arm in the same way.



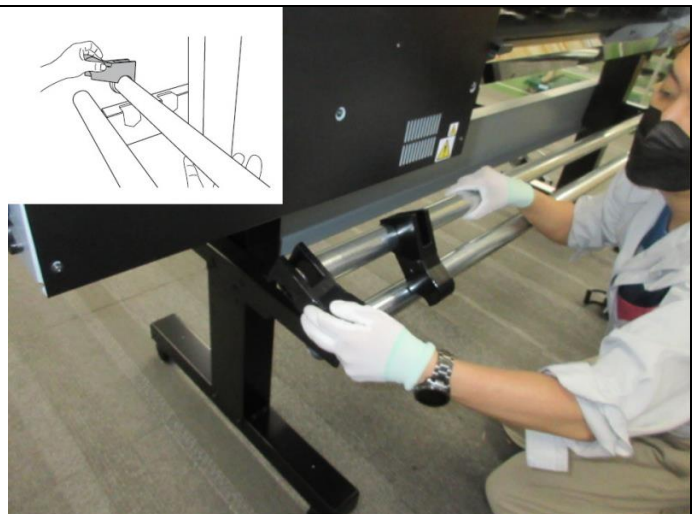
Step 41 / 147

Place the two shafts on the arms.



Step 42 / 147

Thread the shaft on the far side through the media stay.



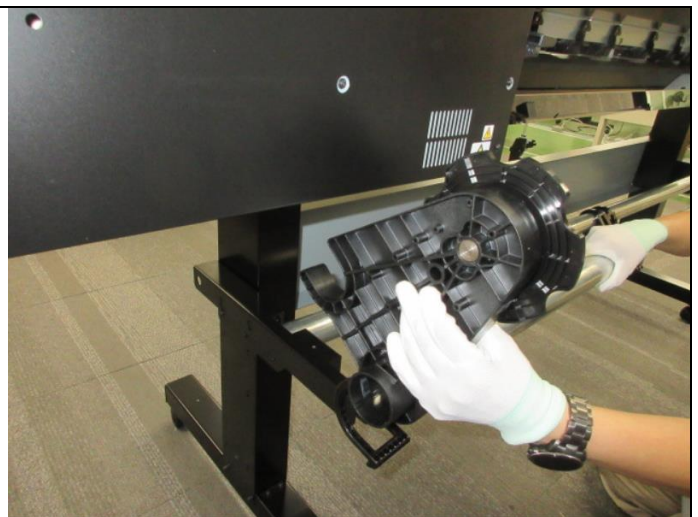
Step 43 / 147

Attach the media holder.



Step 44 / 147

Detail 1: Put the front shaft through the front hole of the left media.



Step 45 / 147

Detail 2: Hook the back part of the left media holder onto the back shaft



Step 46 / 147

Detail 3: Install the right media holder in the same way.



Step 47 / 147

Detail 4: Lock the media holder.



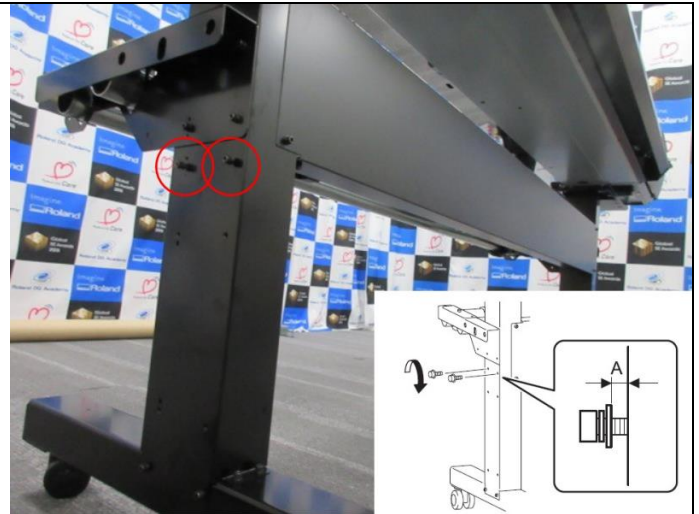
Step 48 / 147

Lock the shaft holder with bolts.



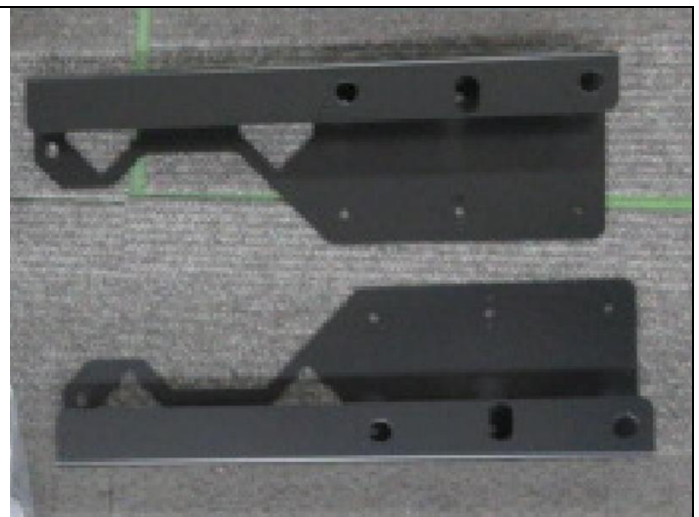
Step 49 / 147

Make a gap of about 5mm on the left side stand when viewed from the front of the printer and tighten the two bolts temporarily.



Step 50 / 147

(Note) There is a distinction between left and right arms.



Step 51 / 147

Assemble the left arm to the temporarily tightened bolts and slide it to the right.



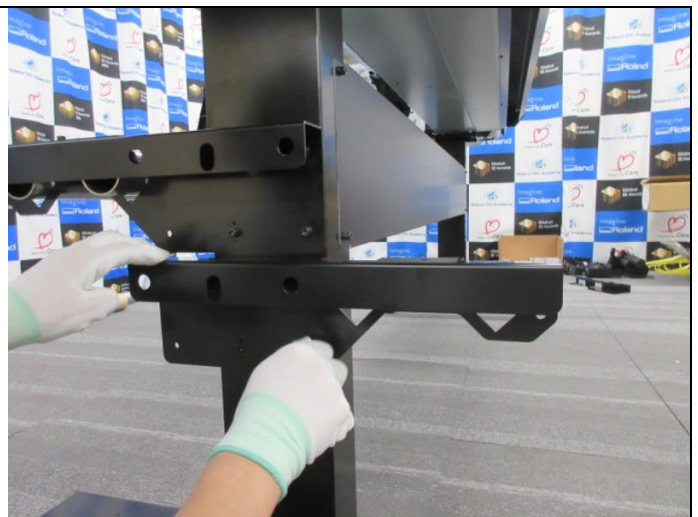
Step 52 / 147

Detail 1: Mounting position of the arm



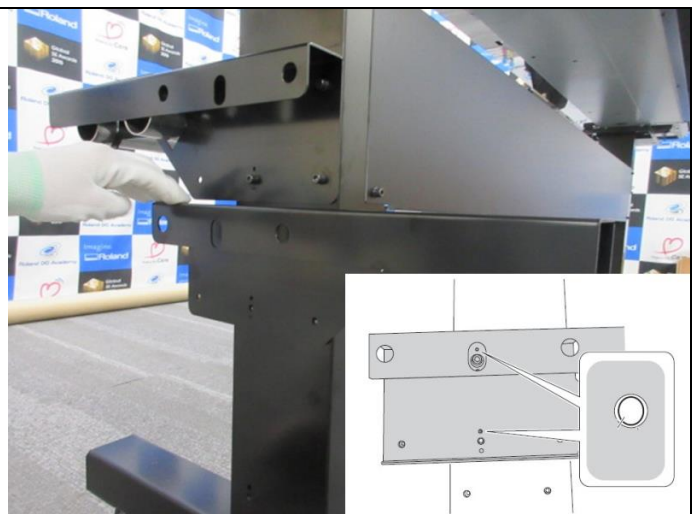
Step 53 / 147

Tighten the bolts by hand.



Step 54 / 147

Adjust the arm so that the bolt is in the center of the hole when looking at the bolt through the hole on the stand.



Step 55 / 147

Lightly tighten the bottom two bolts on the arm.



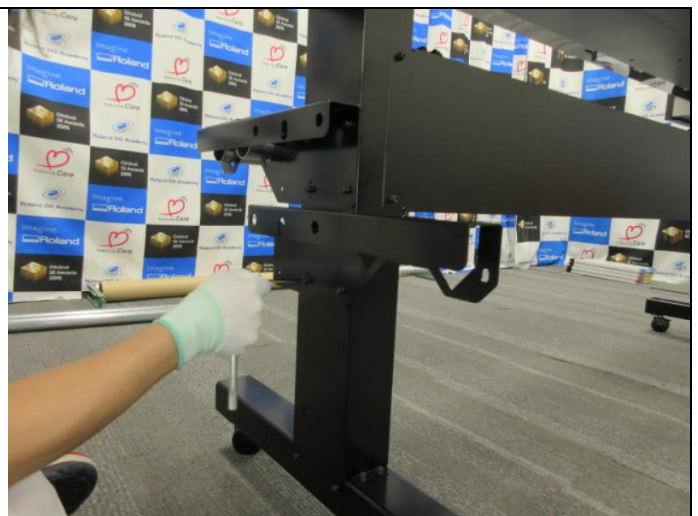
Step 56 / 147

Tighten the upper two bolts.



Step 57 / 147

Tighten the bottom two bolts.



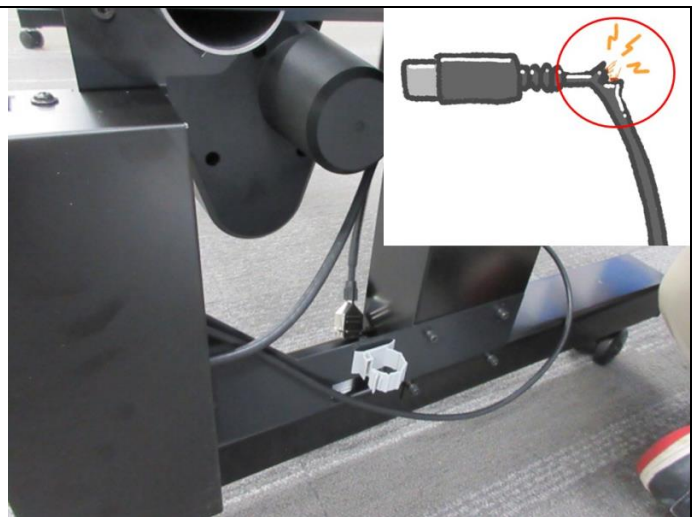
Step 58 / 147

Assemble the other arm in the same way.



Step 59 / 147

(Caution) Do not apply excessive force to the cable.



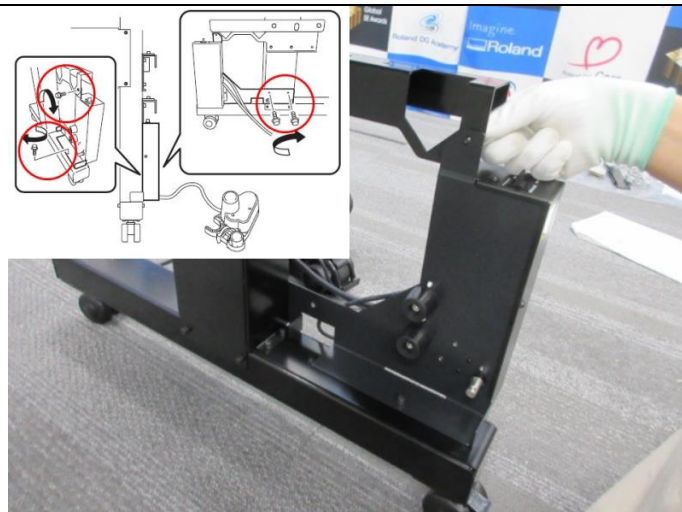
Step 60 / 147

Place the control box on the right side stand. Temporarily place the media holder with motor on the outside of the stand.



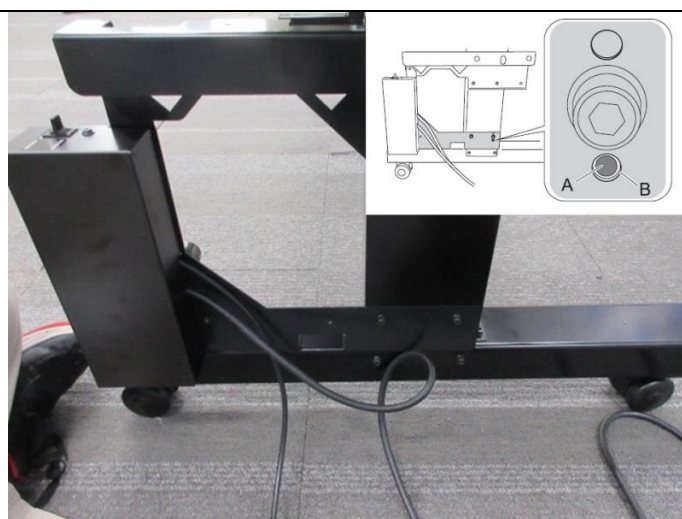
Step 61 / 147

Tighten the control box temporarily with 4 bolts (Tighten the sheet metal of the stand and the control box temporarily so that there is no gap between the stand and the control box.)



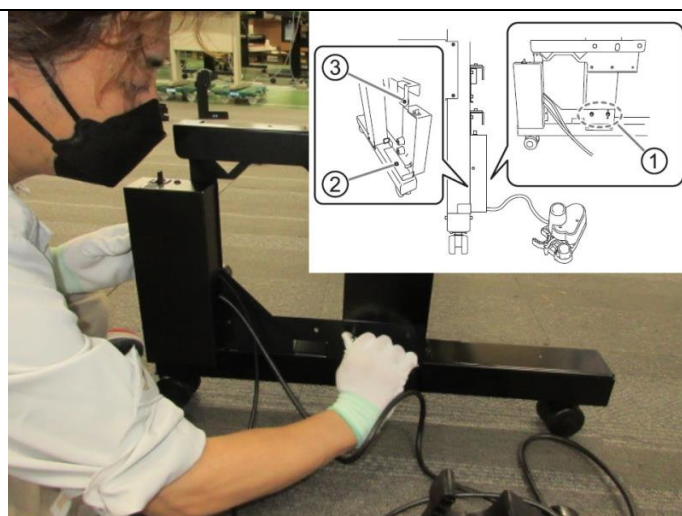
Step 62 / 147

Adjust the arm so that the bolt is in the center of the hole when looking at the bolt through the hole in the control box.



Step 63 / 147

Tighten the bolts in the order of right, bottom, and top.



Step 64 / 147

Place the left stay on the left side stand.



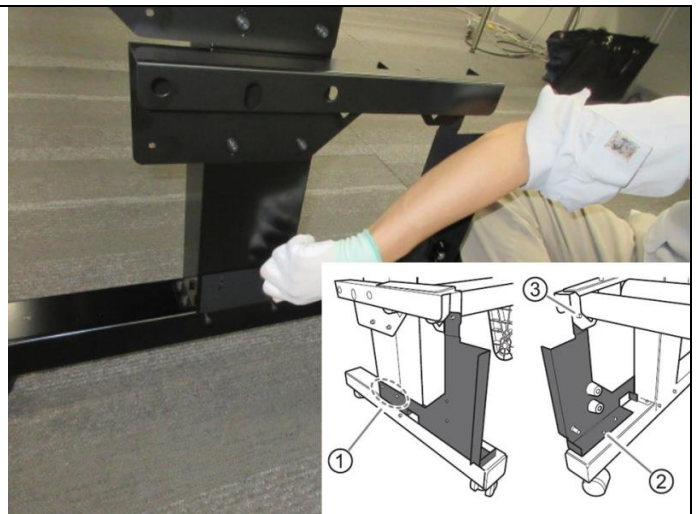
Step 65 / 147

Tighten the left stay temporarily with 4 bolts.



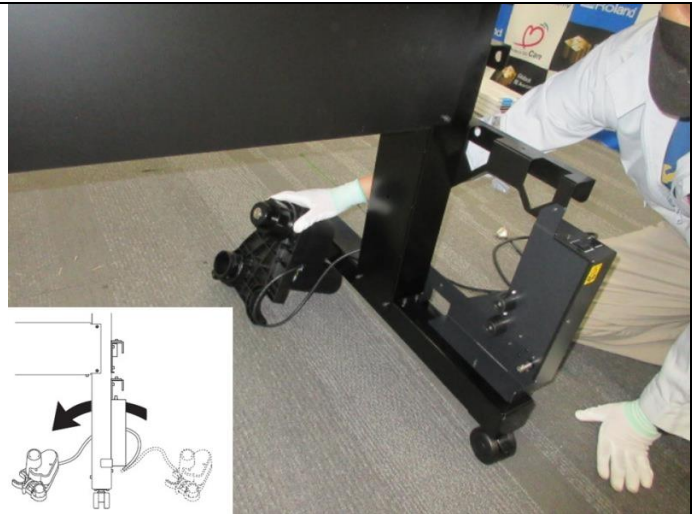
Step 66 / 147

Tighten the bolts in the order of right, bottom, and top.



Step 67 / 147

Move the media holder with motor to the left side through the back of the stand.



Step 68 / 147

Place the two shafts on the arm.



Step 69 / 147

Attach the media holder with motor.



Step 70 / 147

Detail 1: Thread the front shaft through the media holder with motor.



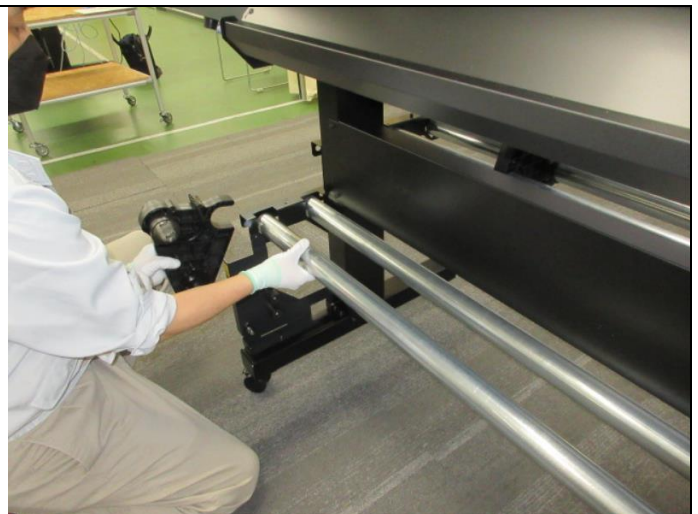
Step 71 / 147

Detail 2: Hook the media holder with motor to the back shaft.



Step 72 / 147

Detail 3: Attach the left media holder in the same way.



Step 73 / 147

Detail 4: Lock the media holder.



Step 74 / 147

Lock the shaft holder with bolts.



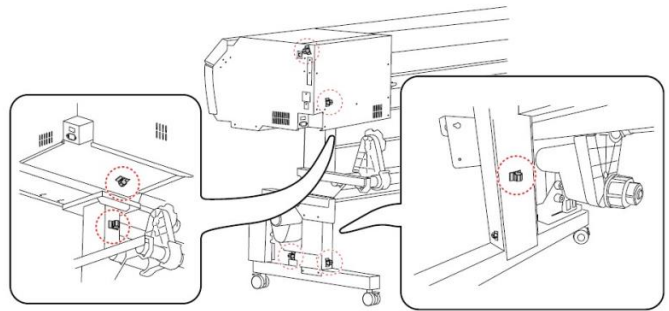
Step 75 / 147

Attach the paper tube rod.



Step 76 / 147

Attach 7 cable clamps.



Step 77 / 147

Detail 1: 1st one



Step 78 / 147

Detail 2: The 2nd one



Step 79 / 147

Detail 3: The 3rd one



Step 80 / 147

Detail 4: The 4th one



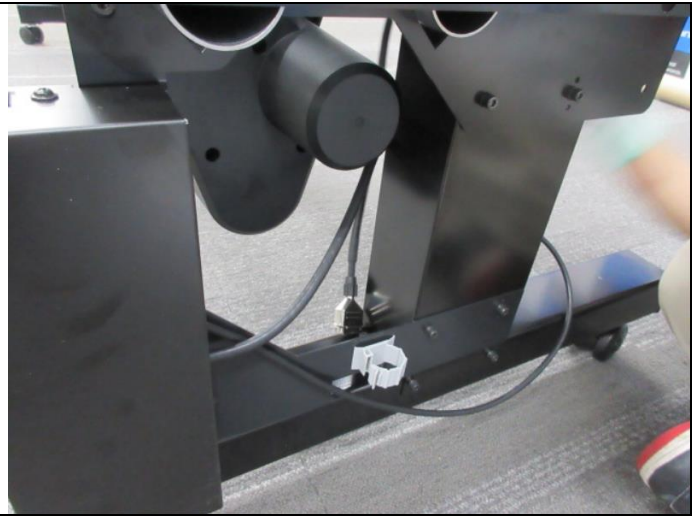
Step 81 / 147

Detail 5: 5th one



Step 82 / 147

Detail 6: The 6th one



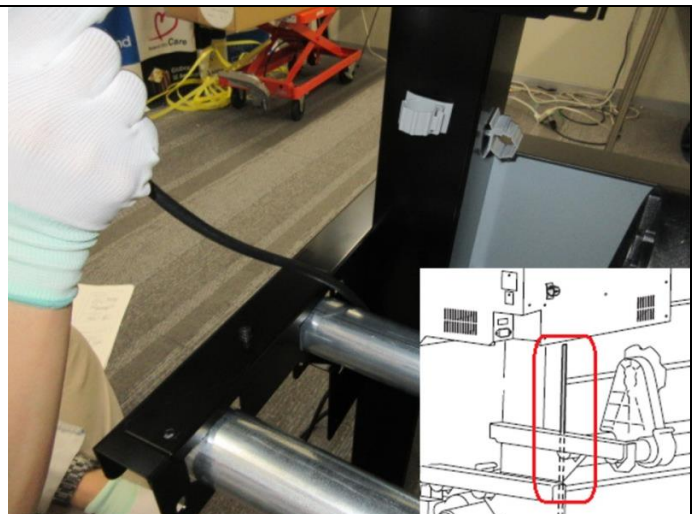
Step 83 / 147

Detail 7: 7th one



Step 84 / 147

Connect the control box cable to the [TAKE UP] connector via the inside of the arm and tighten the screw.



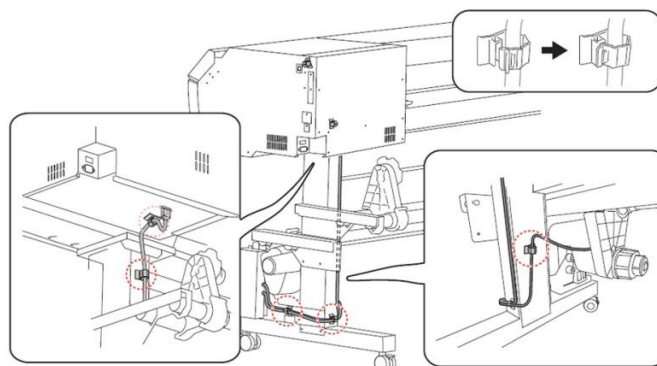
Step 85 / 147

Detail 1: Fix the connector.



Step 86 / 147

Secure cables with 5 cable clamps.



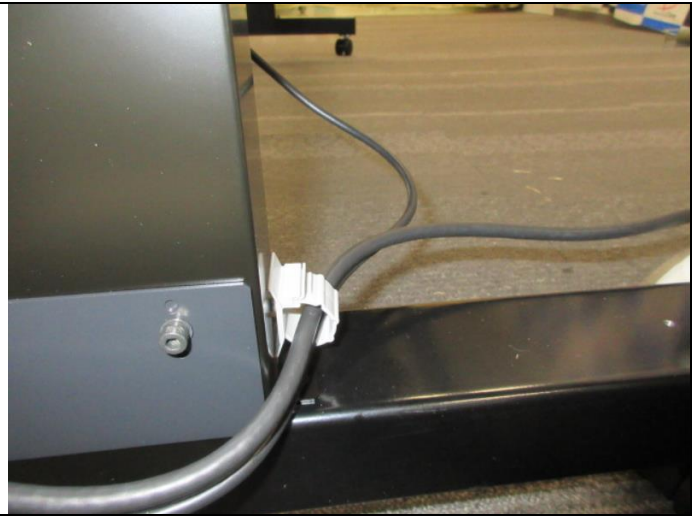
Step 87 / 147

Detail 1: Cable routing 1



Step 88 / 147

Detail 2: Cable routing 2



Step 89 / 147

Detail 3: Cable routing 3



Step 90 / 147

Place the Dancer Roller upright on the foot of the stand.



Step 91 / 147

Temporarily fasten the left and right side of the dancer roller with two bolts.



Step 92 / 147

Tighten the bolts in order of right side, then left side.



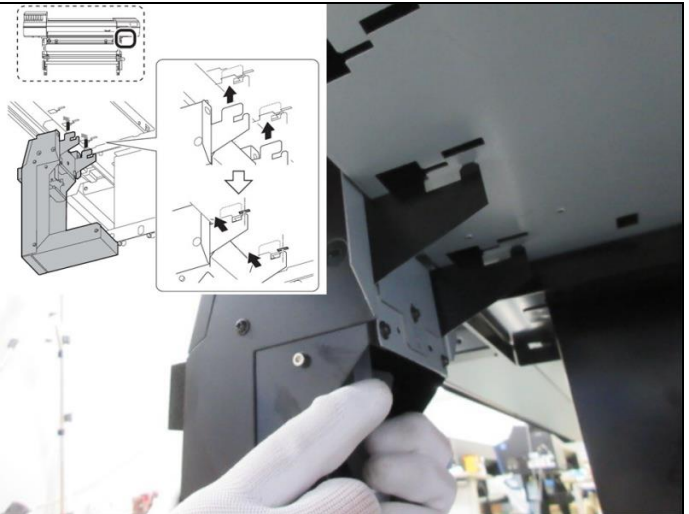
Step 93 / 147

Detail 1: Left side



Step 94 / 147

Insert the waste bottle into the groove and slide it 5 mm to the right.



Step 95 / 147

Attach the connector.



Step 96 / 147

Raise the waste bottle stand vertically and slide it to the left.



Step 97 / 147

Detail 1: The place where the screw holes of the waste bottle stand and the screw holes of the machine are aligned is the installation position.



Step 98 / 147

Tighten the waste bottle stand with two bolts.



Step 99 / 147

Remove the cap of the waste bottle, and attach the wasted bottle to the bottle stand.



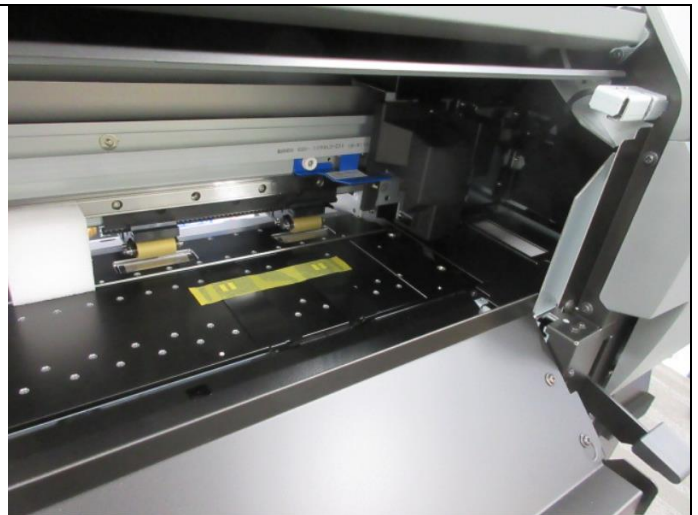
Step 100 / 147

Open the front cover, cover L and cover R.



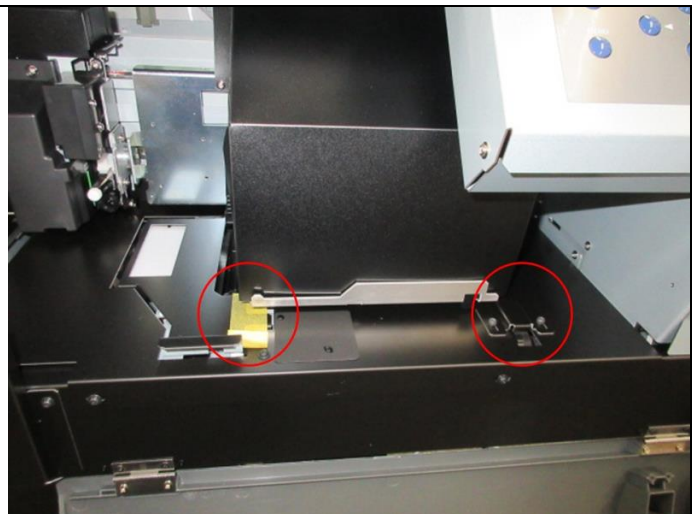
Step 101 / 147

Remove all retainers.



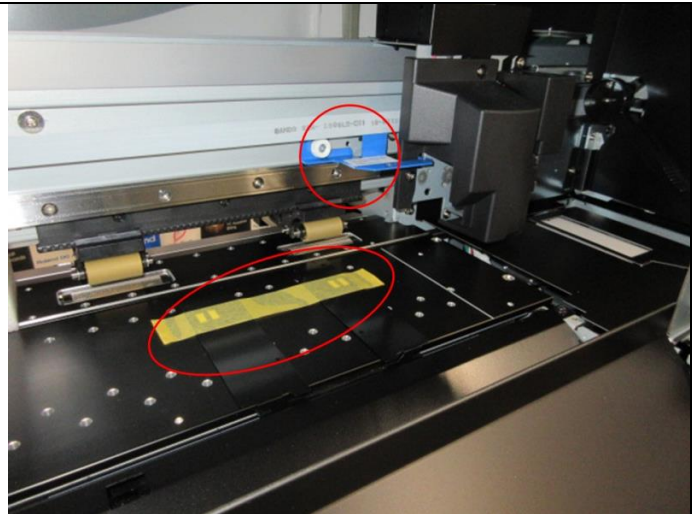
Step 102 / 147

Detail 1: Retainer 1



Step 103 / 147

Detail 2: Retainer 2



Step 104 / 147

Detail 3: Retainer 3



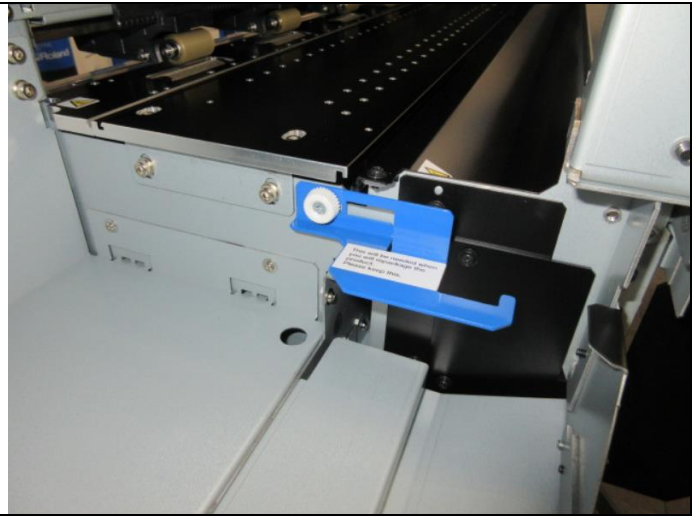
Step 105 / 147

Detail 4: Re-attach the gear cover in the position shown in the figure (the entire gear must be hidden).



Step 106 / 147

Detail 5: Fix the fixture that used to hold the print carriage inside the L cover for storage.



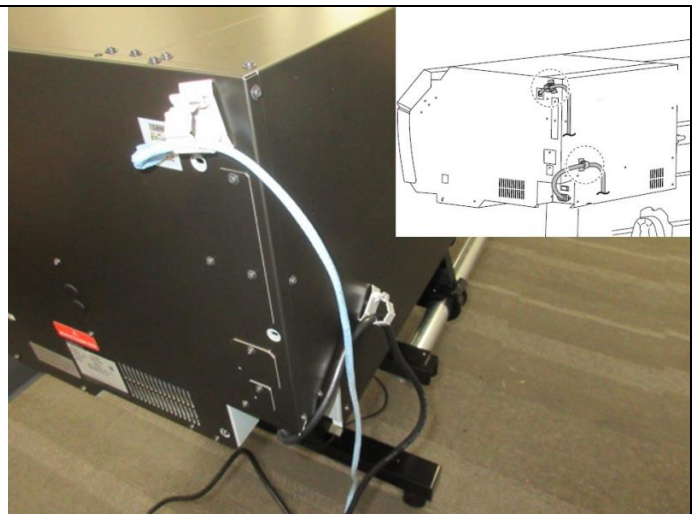
Step 107 / 147

Close the front cover, cover L and cover R.



Step 108 / 147

Secure the power cord and Ethernet cable with the cable clamps.



Step 109 / 147

Turn on the main power switch.



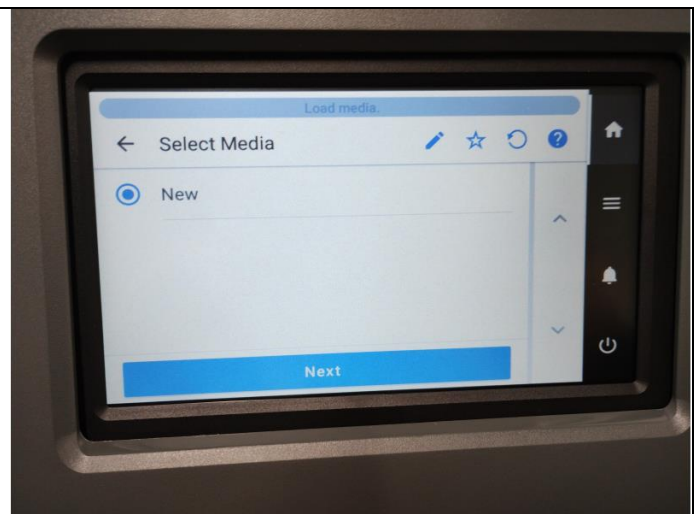
Step 110 / 147

Touch the touch panel.



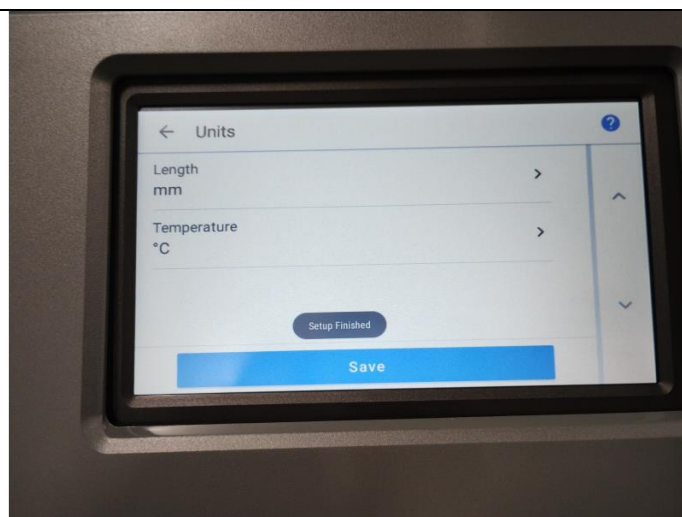
Step 111 / 147

Press [] or [] to select the desired language, length unit, and temperature unit.



Step 112 / 147

Detail 1: Press [] or [] to select the desired language, length unit, and temperature unit.



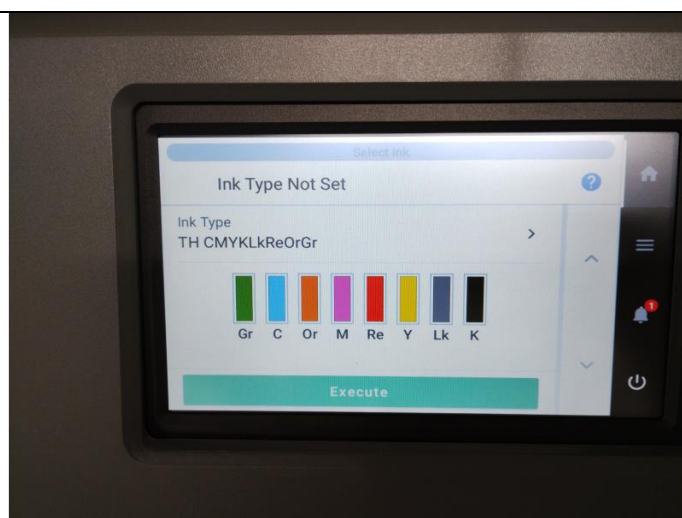
Step 113 / 147

Always shake all ink cartridges gently before inserting them.



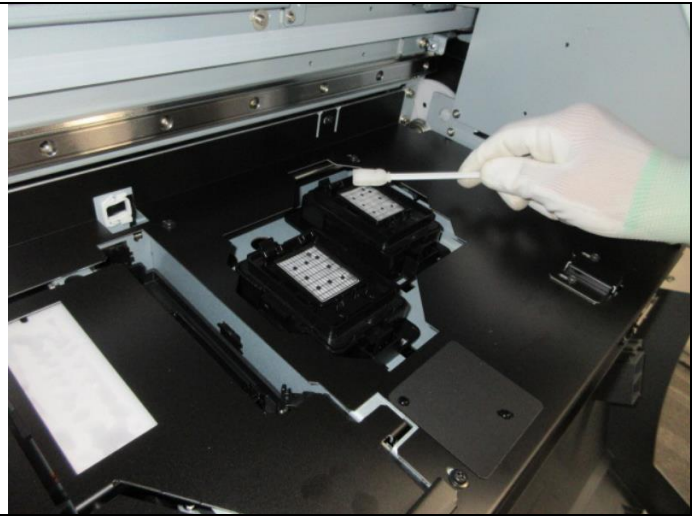
Step 114 / 147

When the following screen appears, select the ink type and press [Execute].



Step 115 / 147

(Caution) Finish within 30 minutes, use a new accessory cleaning stick, and do not rub the print head surface.



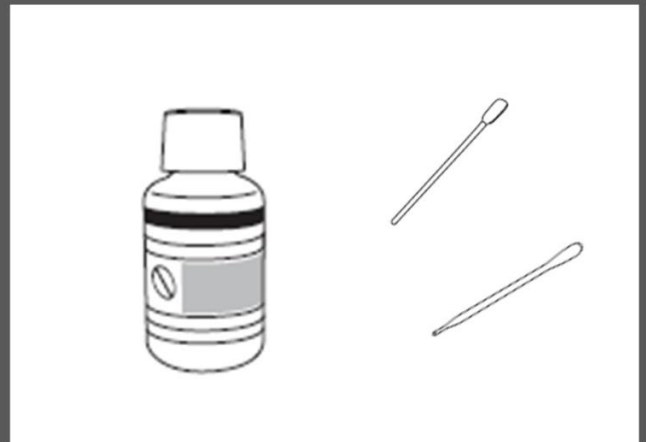
Step 116 / 147

Clean the cap ASSY, wiper, and flushing sponge with the cleaning stick.



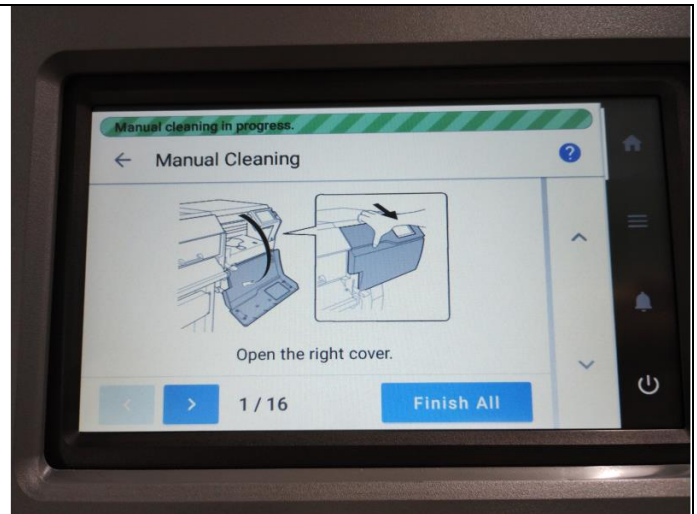
Step 117 / 147

Detail 1: Prepare cleaning stick, syringe, and solvent-based cleaning solution.



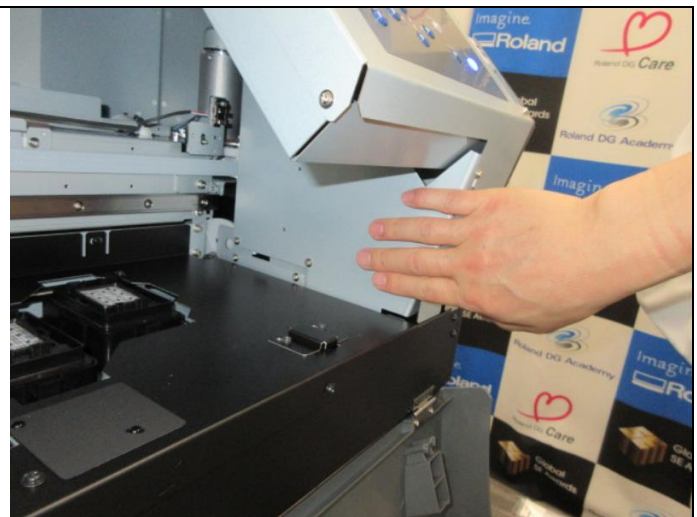
Step 118 / 147

Detail 2: Open cover R and cover L.



Step 119 / 147

Detail 3: Touch the frame to release static electricity.



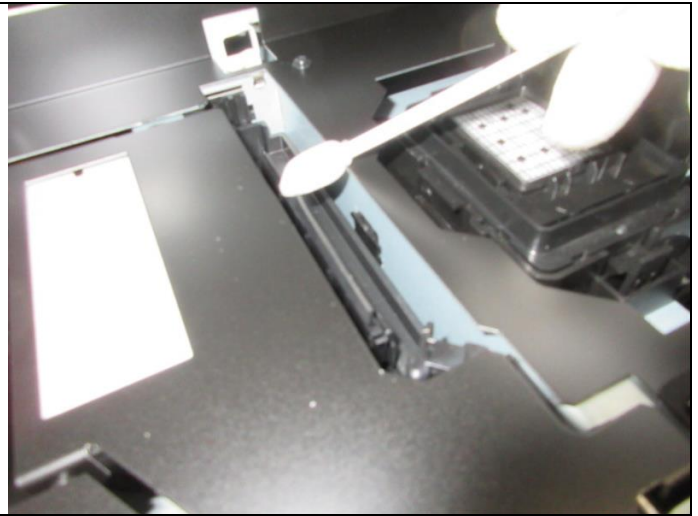
Step 120 / 147

Detail 4: Dip the new cleaning stick into the cleaning solution.



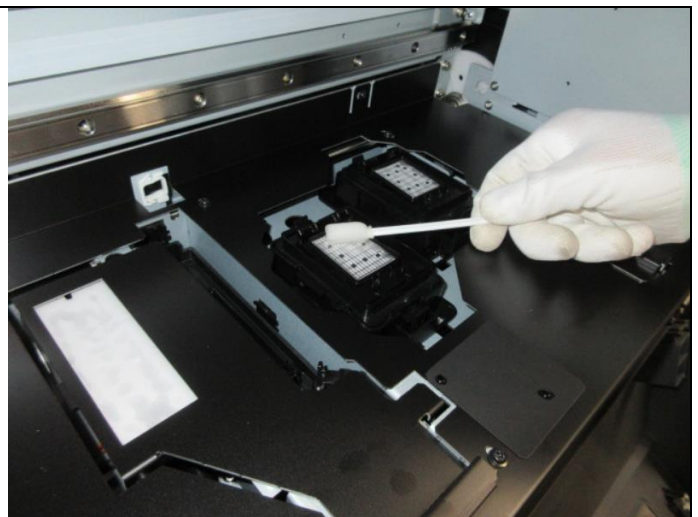
Step 121 / 147

Detail 5: Clean the wiper.



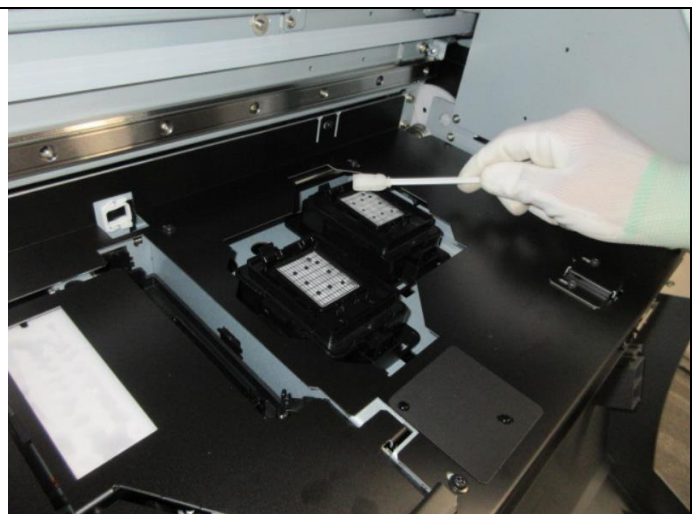
Step 122 / 147

Detail 6: Clean the left side cap assembly.



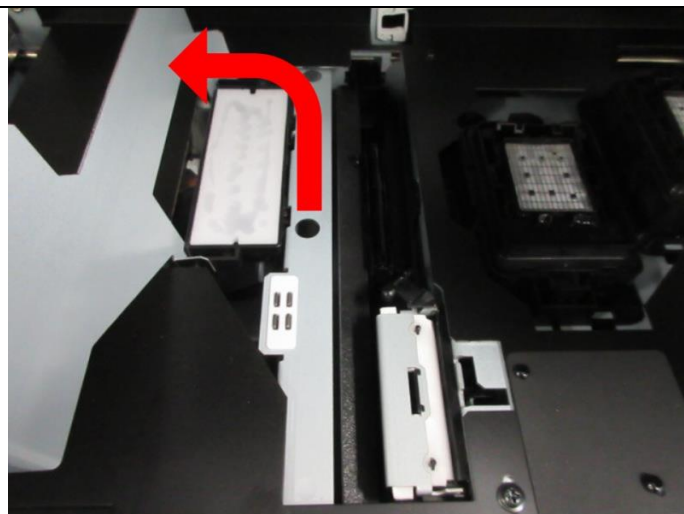
Step 123 / 147

Detail 7: Clean the right side cap assembly.



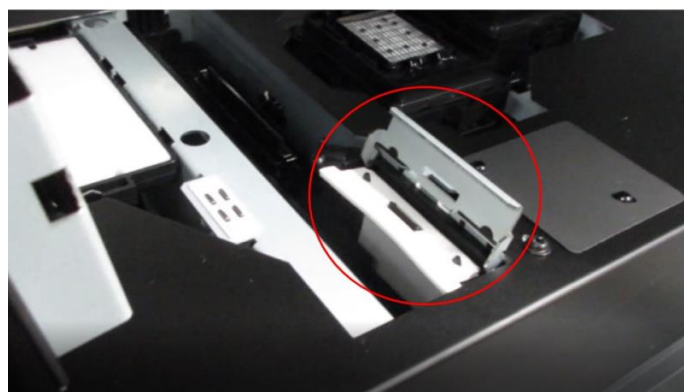
Step 124 / 147

Detail 8: Open the flushing cover.



Step 125 / 147

Detail 9: Open the wiper cleaner cover.



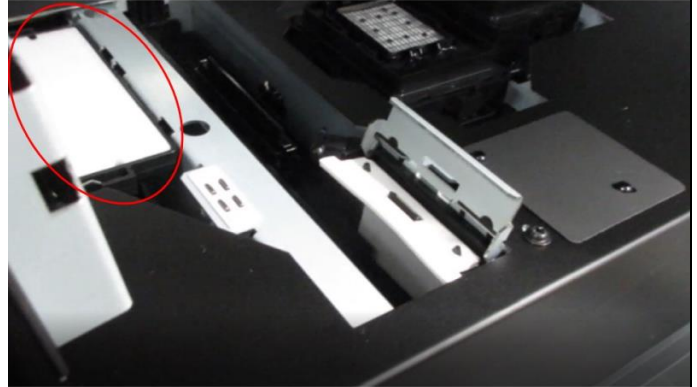
Step 126 / 147

Detail 10: Use a dropper to fill the approximate amount of cleaning solution as shown.



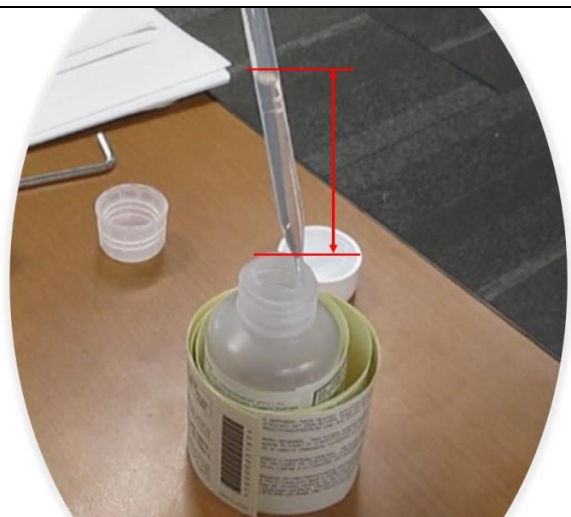
Step 127 / 147

Detail 11: Drip cleaning solution onto sponge.



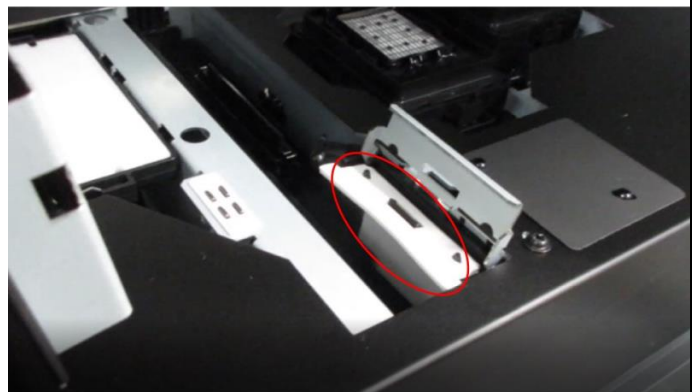
Step 128 / 147

Detail 12: Use dropper to pour approximately the amount of cleaning solution as shown.



Step 129 / 147

Detail 13: Drip cleaning solution onto the wiper scraper.



Step 130 / 147

Detail 14: Close the wiper cleaner and flushing cover.



Step 131 / 147

Dip the new cleaning stick into the cleaning solution.



Step 132 / 147

Press the cleaning stick against the groove on the left print head surface to clean.



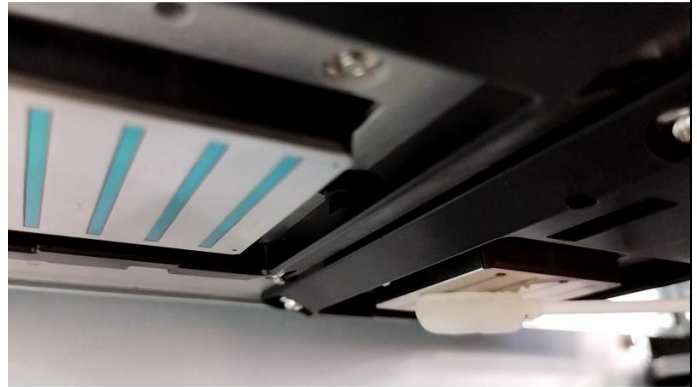
Step 133 / 147

Clean the edge and sides of the left print head and the entire surface.



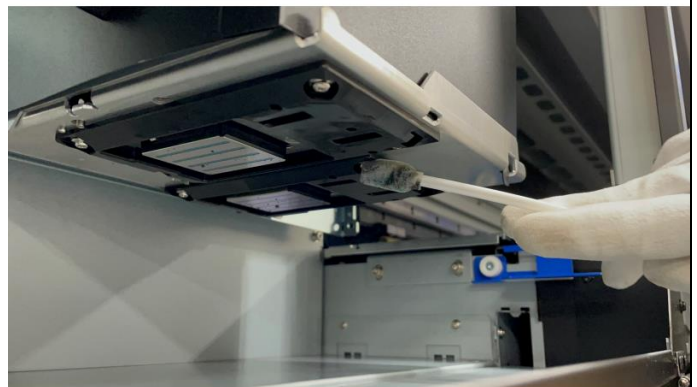
Step 134 / 147

Press the cleaning stick against the groove on the right side of the right print head to clean.



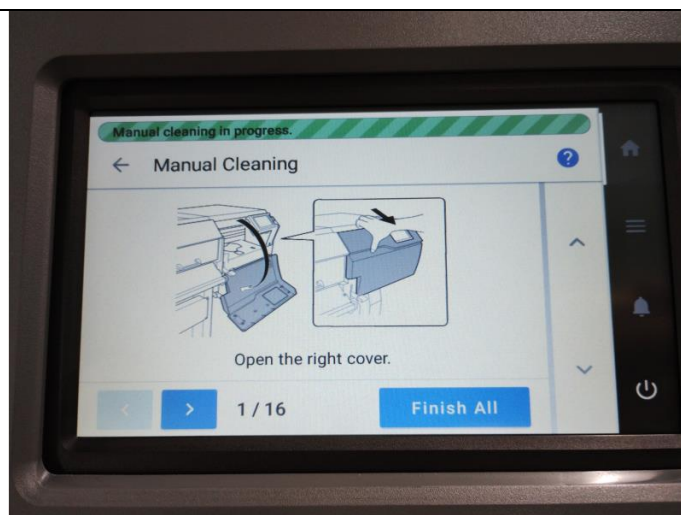
Step 135 / 147

Clean the edge, side and entire surface of the right print head.



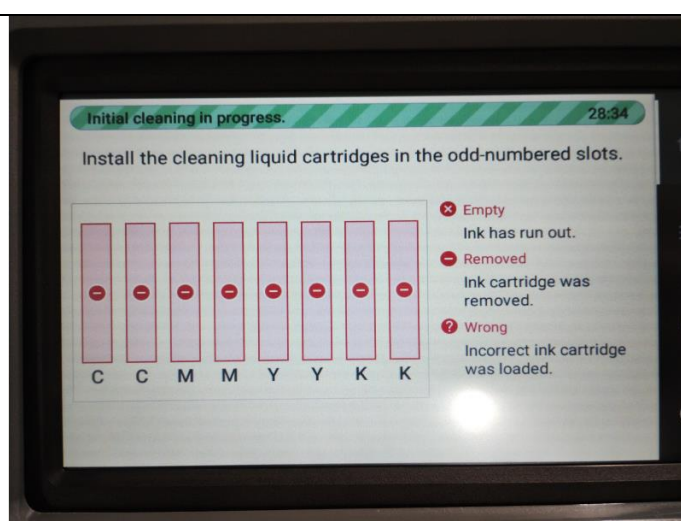
Step 136 / 147

Close the cover R and cover L, and press [Finish All].



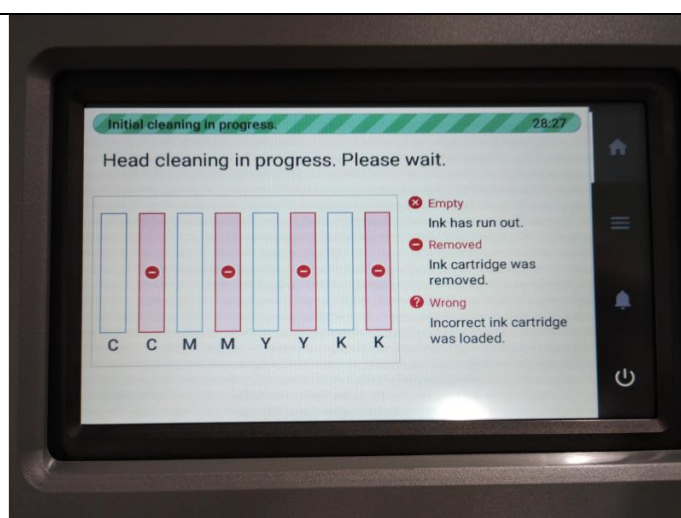
Step 137 / 147

When the screen asks to set the cleaning liquid, set the cleaning liquid.



Step 138 / 147

Follow the instructions on the screen to perform head cleaning.



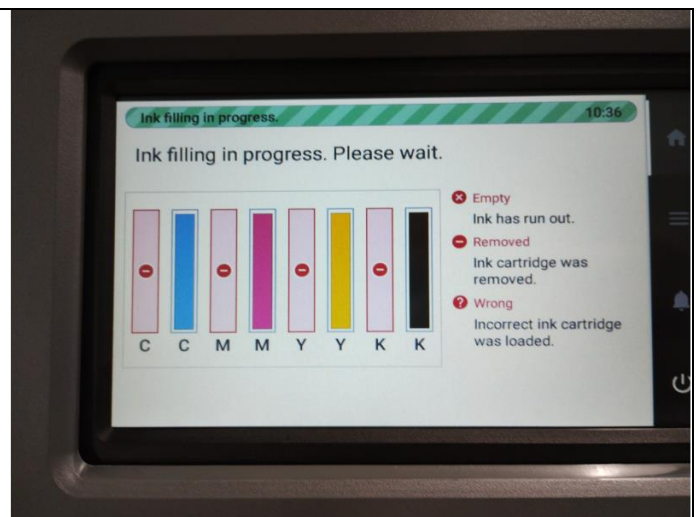
Step 139 / 147

When the screen prompts to insert the ink cartridge, insert the ink cartridge into the even-numbered slot.



Step 140 / 147

If it is inserted correctly, ink filling will start.



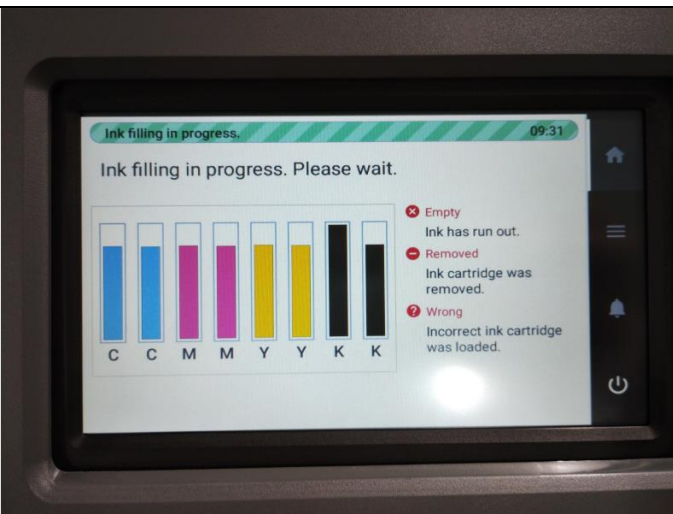
Step 141 / 147

When the screen prompts to insert the ink cartridge, insert the ink cartridge into the odd-numbered slot.



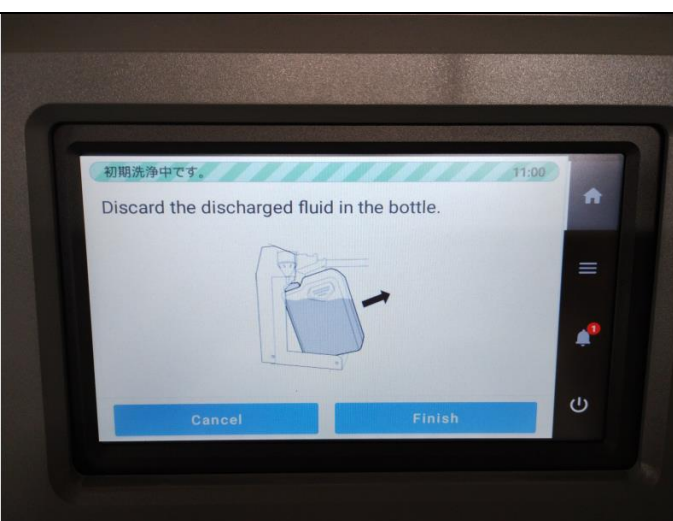
Step 142 / 147

When it is inserted correctly, ink filling will start.



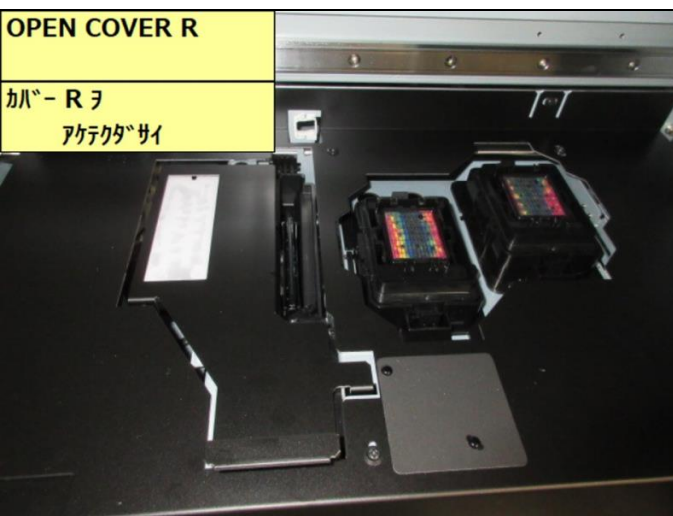
Step 143 / 147

If the following message appears during ink filling, remove the waste bottle and discard the waste liquid to empty.



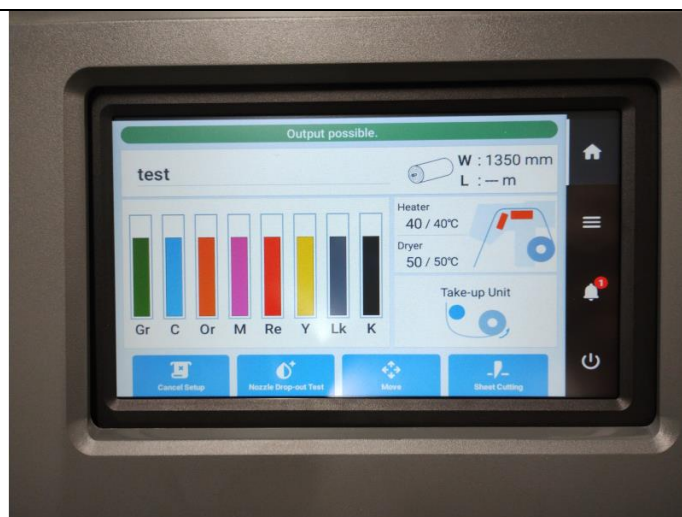
Step 144 / 147

When the screen asks to open the right cover, perform manual cleaning again.



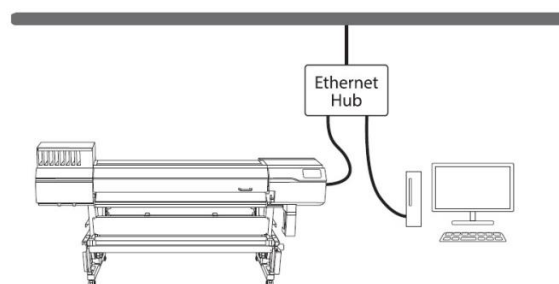
Step 145 / 147

Wait until the ink filling is completed.
When the following message is displayed, the ink filling is complete.



Step 146 / 147

For network settings, refer to "Network Settings" in the user's manual.



Step 147 / 147

Go to Print Head Alignment.



次の手順

プリントヘッド位置調整

Next Step Print Head Position Adjustment

XP-640 Print Head Alignment at installation

XP-640 Print Head Alignment at installation Information

Step 1 / 5

XP-640 adjusts print head position (BIAS/VERTICAL, M-GAP, HORIZONTAL) at the center of the table. Therefore, these adjustments require the media to be centered for printing. Since the print head position adjustment requires the heater to be on, the heater is automatically turned on for these adjustments. Ink ejection check is done only during installation.



Step 2 / 5

General Tools

一般ツール/General Tool

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

Step 3 / 5

Special Tools

特殊治具/Special Tools

ST-004 TORQUE DRIVER M4	
DET. PHILLIPS NO.2 L200MM	
MEGA-PETZ-G CORRECT SET CORRECT-12M	

Step 4 / 5

Ink ejection check tool

吐出確認に必要なツール /Tools required for ink ejection check

吐出確認印刷用データ Data for printing to check ink ejection	 Pre PrintingTestData_1300x500mm.prt
にじみ確認印刷用データ Data for printing to confirm blurring	 BandingCheckData_250x200mm.prt
54インチ以上の塩ビメディア 54" and larger PVC media	

Step 5 / 5

Typical Work Time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
吐出確認を含むヘッド位置調整 Print head alignment including confirmation of ink ejection	39 min.

XP-640 Print Head Alignment at installation

XP-640 Print Head Alignment at installation

Procedure

Step 1 / 44

Start Peck2.

Peck2 Ver. 2.8.0

koharajun@rolanddg.co.jp

Login

Server Update

Printer Info	User Information	Certification Points
Model: ER-642_KFT0000	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: Primary power on	Expired after: 23 days	Installer Certified 0 * * *
Firm Ver: 0.86		Color 0 0 0 200
Service Menu: Open		Dental 0 0 * 200
		3D 0 0 * 200

Machine Operation	Information	Site Links	Work Report
Connect Printer	Global Dashboard	RDG Connect Page	Completed #: 0
Check Report	Start SV Assist App	Imagi-net Product Page	Incompleted #: 9
Update Firmware	Help	Check KB Article	
Put Parameter			

Incompleted work report list

LG-640_KFM0005_20221117_190737.pec

LG-640_KFM0004_20221121_203840.pec

LG-540_KFM0000_20221123_185419.pec

LG-300_KFM0001_20221116_205409.pec

LEC2-3305_ZAA0000_20230509_143345.pec

ER-642_XPD2003_20230309_085629.pec

ER-642_XPD2003_20230113_093429.pec

ER-642_XPD2003_20230110_105537.pec

ER-642_KFT0000_20230516_140720.pec

Step 2 / 44

Start the machine in service mode.



Step 3 / 44

(Caution) Media must be installed in the center. Printing is not possible if the media is not set in the center.



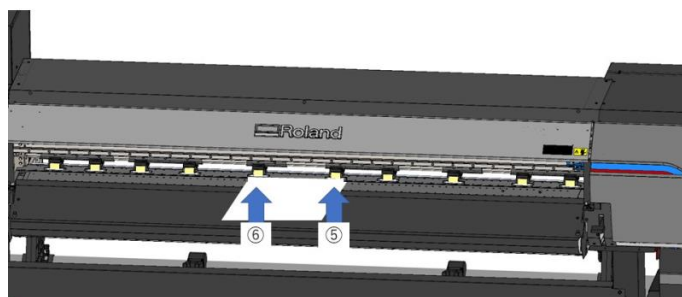
Step 4 / 44

Set the PET2-G media in the center.



Step 5 / 44

Detail 1: Set PET2-G between the 5th and 6th pinch rollers from the right.



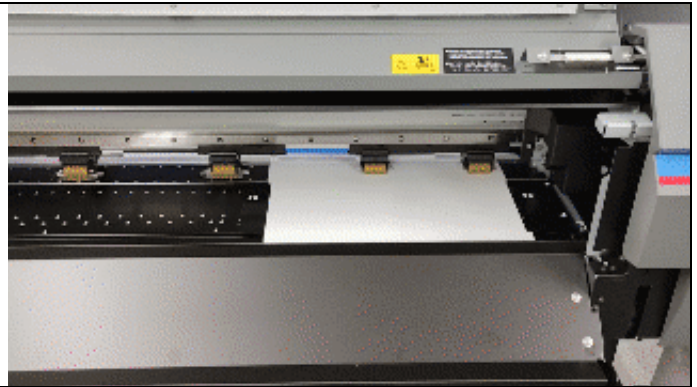
Step 6 / 44

Detail 2: Note: If you set the media at the position less than 600 mm from the right edge, a message will appear asking you to set the media in the center and you will not be able to perform printing. Set the media in the correct position again.



Step 7 / 44

Detail 3: Sheet setup error.



Step 8 / 44

Lower the loading lever and press the [ENTER] key to read the sheet size.



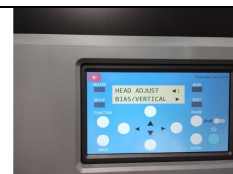
Step 9 / 44

Detail 1: Note: The LCD monitor displays the sheet width, not the distance from the origin.



Step 10 / 44

Press [ENTER] under [MENU] > [



BIAS/VERTICAL] >[TEST PRINT].



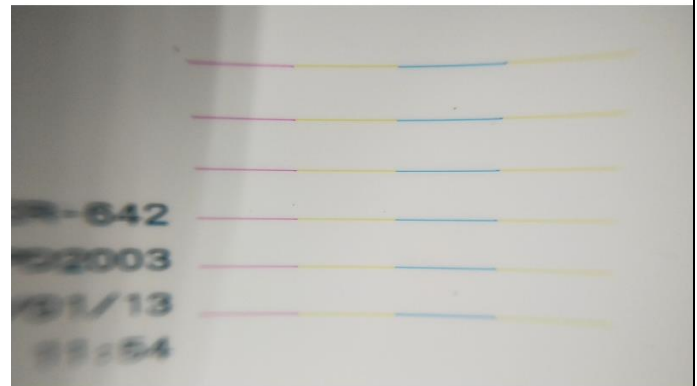
Step 11 / 44

The print heater will start heating automatically. Wait until the heater temperature reaches 40°C. (dryer temperature 50°C)



Step 12 / 44

Check the print result. If the reference line and the adjustment line are within 0.25 dots off, no adjustment is necessary. Otherwise, make adjustments.



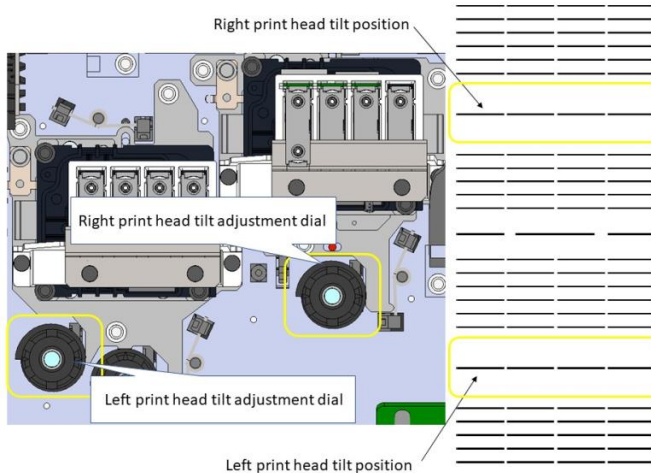
Step 13 / 44

Open the right top cover and carriage cover.

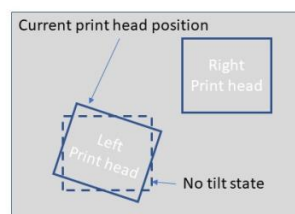


BIAS adjustment

Detail 1: Right side print head tilt
adjustment dial and left side print head
tilt adjustment dial



Detail 2: When the left side of the left print head tilt position line is up and the right side is down

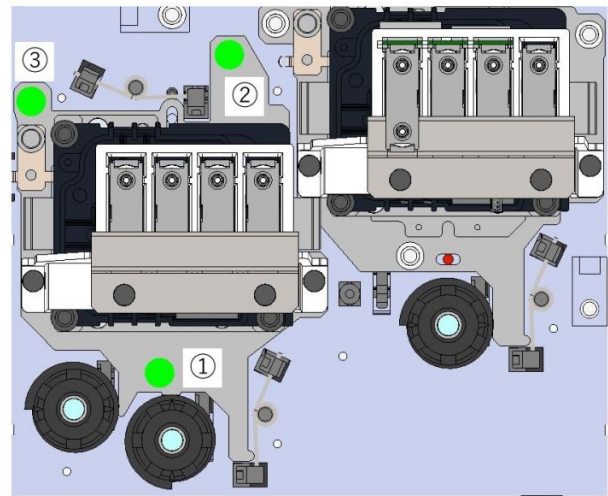


Left print head tilt position →

Left Right Left Right

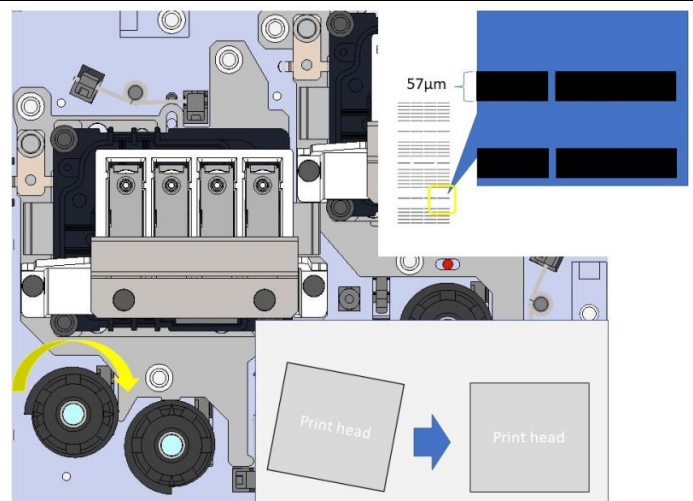
Step 17 / 44

Detail 3: Loosen the screws one full turn in numerical order shown in the figure.



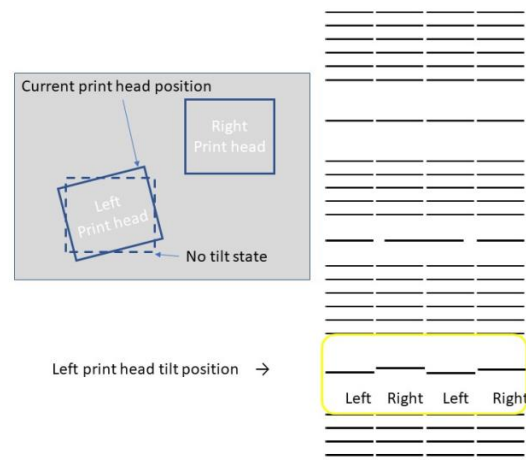
Step 18 / 44

Detail 4: Turn the dial to the right to adjust the dot on the horizontal line if the misalignment is within 1/4 dot. (1 click on the dial moves the dot by 2.9 micrometers. 1 dot is 57 micrometers.)



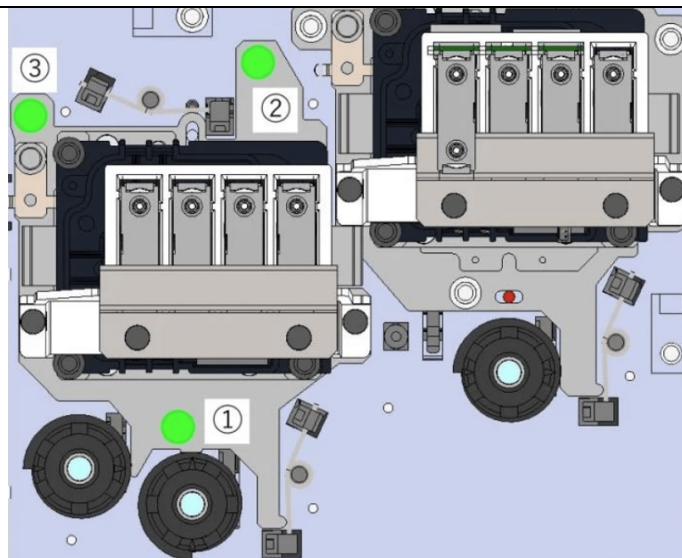
Step 19 / 44

Detail 5: When the left side of the left print head tilt position line is down and the right side is up



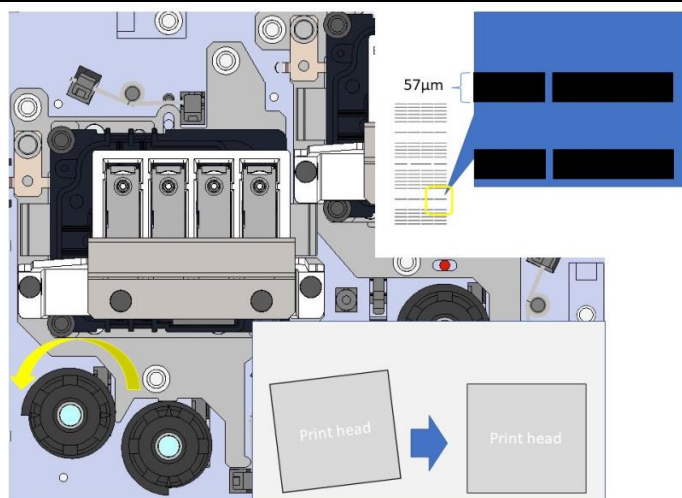
Step 20 / 44

Detail 6: Loosen the screws one full turn in numerical order shown in the figure.



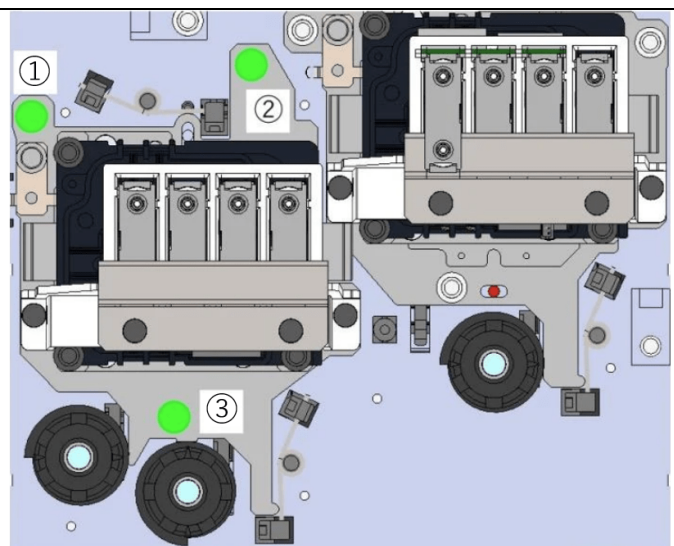
Step 21 / 44

Detail 7: Turn the dial to the left and adjust the dot on the horizontal line if the misalignment is within 1/4 dot. (1 click on the dial moves 2.9 micrometers. 1 dot is 57 micrometers.)



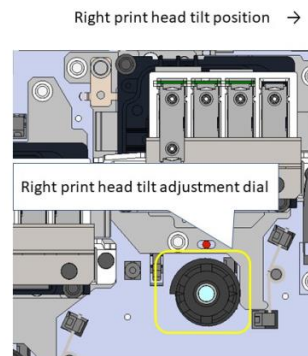
Step 22 / 44

Detail 8: Tighten the screws in numerical order shown in the figure (0.6 N-m).



Step 23 / 44

Detail 9: Adjust the right print head position in the same way.



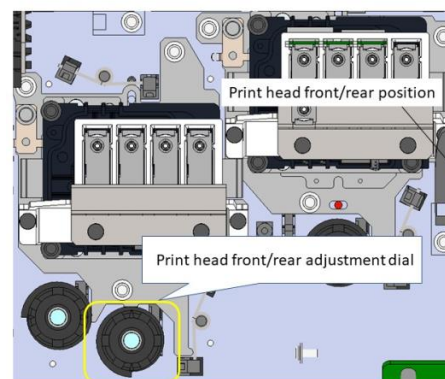
Step 24 / 44

VERTICAL adjustment

Print head front/rear position →

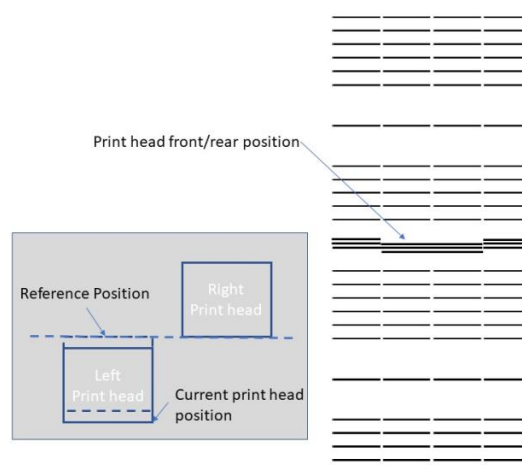
Step 25 / 44

Detail 1: Print head front/rear adjustment dial



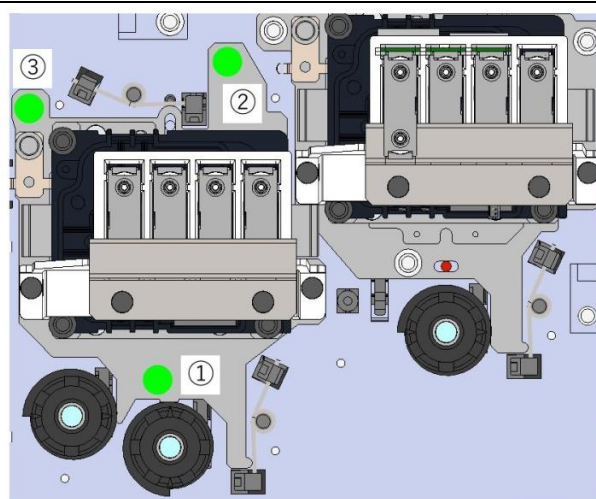
Step 26 / 44

Detail 2: When the middle line is below the outer lines.



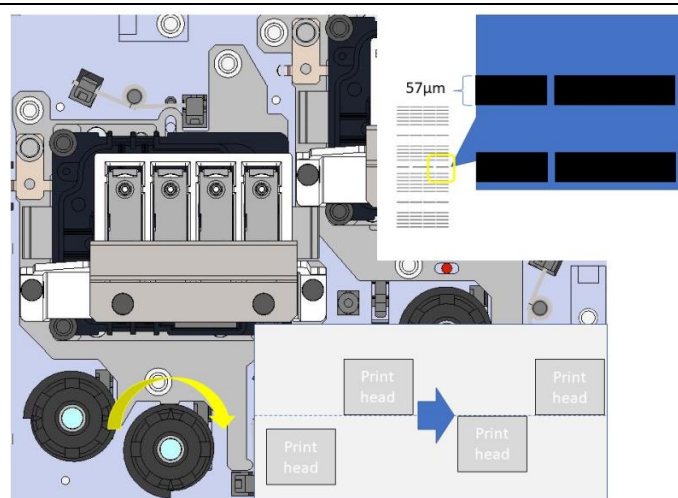
Step 27 / 44

Detail 3: Loosen the screws one turn in numerical order shown in the figure.



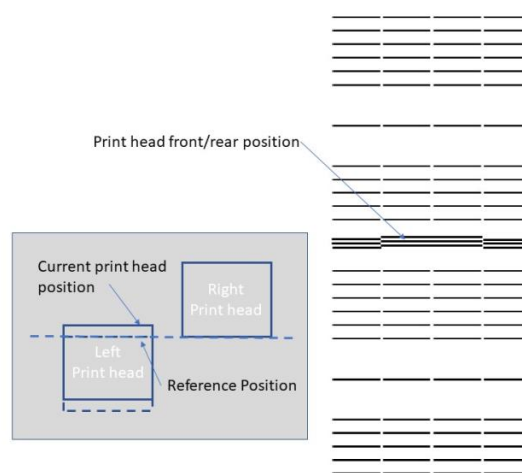
Step 28 / 44

Detail 4: Turn the dial to the right to adjust the dot on the horizontal line if the misalignment is within 1/4 dot. (1 click on the dial moves the dot by 12.2 micrometers. 1 dot is 57 micrometers.)



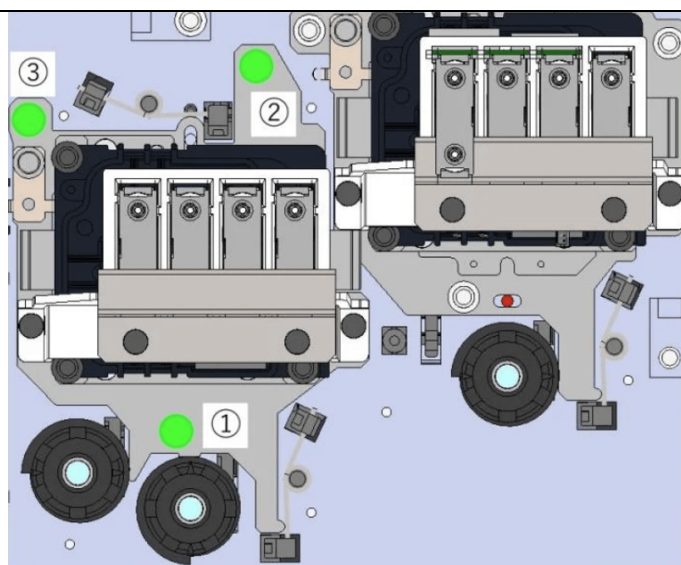
Step 29 / 44

Detail 5: If the middle line is above the outer lines.



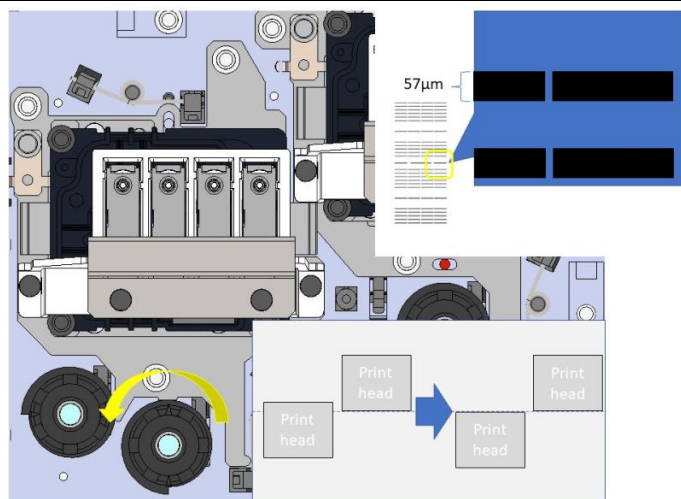
Step 30 / 44

Detail 6: Loosen the screws one turn in numerical order shown in the figure.



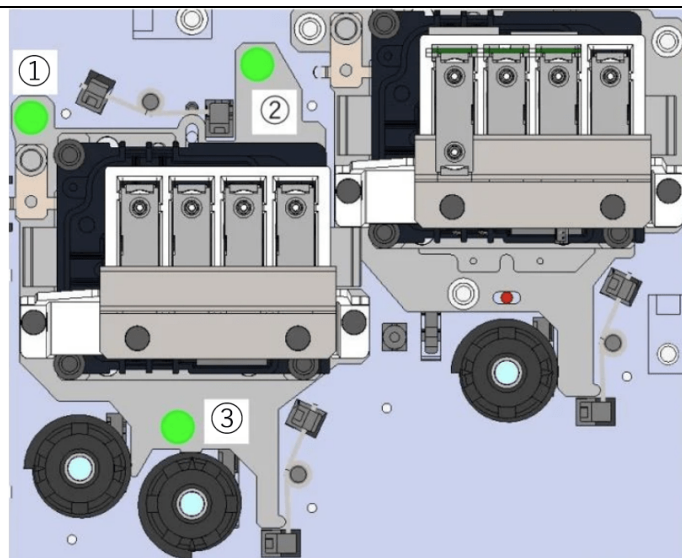
Step 31 / 44

Detail 7: Turn the dial to the left to adjust the dot on the horizontal line if the misalignment is within 1/4 dot. (1 click on the dial moves the dot 12.2 micrometers. 1 dot is 57 micrometers.)



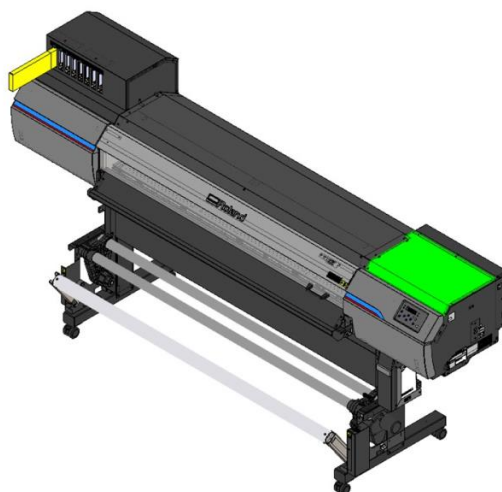
Step 32 / 44

Detail 8: Tighten the screws in numerical order shown in the figure. (0.6 N-m)



Step 33 / 44

Attach the cover.



Step 34 / 44

Press [ENTER] under [MENU] > [M-GAP] > [TEST PRINT].



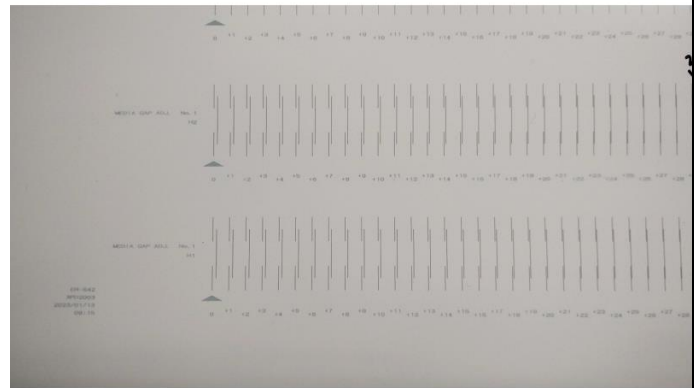
Step 35 / 44

The print heater will start heating automatically. Wait until the heater temperature reaches 40°C. (dryer temperature 50°C)



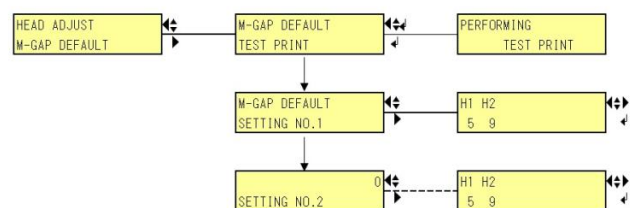
Step 36 / 44

Check the print result.



Step 37 / 44

Enter the numbers where the upper and lower black lines overlap and press [ENTER].



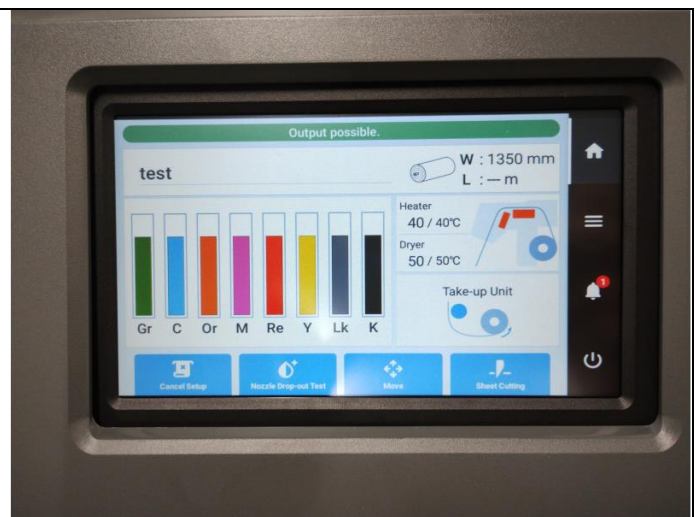
Step 38 / 44

Press [ENTER] under [MENU] > [HORIZONTAL] > [TEST PRINT].



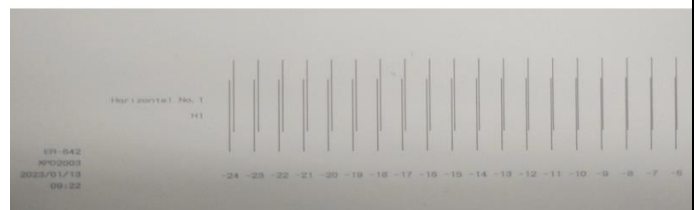
Step 39 / 44

The print heater will start heating automatically. Wait until the heater temperature reaches 40°C. (dryer temperature 50°C)



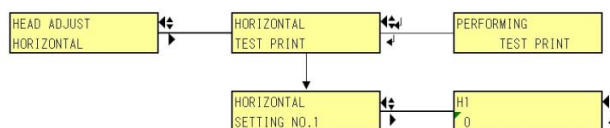
Step 40 / 44

Check the print result.



Step 41 / 44

Enter the numbers where the upper and lower black lines overlap and press [ENTER].



Step 42 / 44

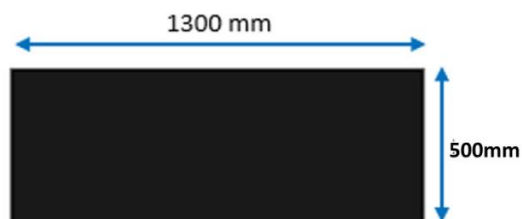
Install the 54" PVC sheet.



54" and larger PVC media

Step 43 / 44

Start Roland VersaWorks and output "PrePrintingTestData_1300x500mm.prt" to confirm that there is no abnormal black solid printing.

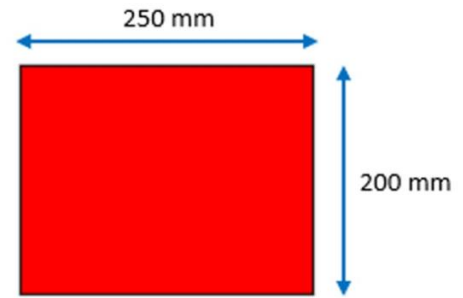


Pre-PrintingTestData_1300x500 mm.prt

Step 44 / 44

Output

"BandingCheckData_250x200mm.prt"
and confirm that there is no color
bleeding.



BandingCheckData_250x200 mm.prt

XP-640 Tube conversion from 8-color machine to 4-color machine

XP-640 Tube conversion from 8-color machine to 4-color machine Information

Step 1 / 3

General Tools

一般ツール/General Tool

プラスドライバー No.2 No.2 Phillips screwdriver	
手袋 (滑り止め用) Gloves (anti-slip)	
ニッパー Nipper	

Step 2 / 3

Typical Work Time

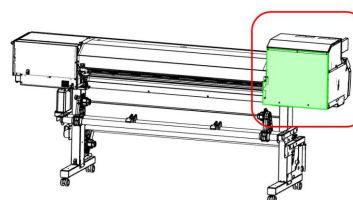
作業時間/Typical work time

作業内容/Contents of work	時間/Time
チューブ交換 Tube Replacement	30 min.

Step 3 / 3

Cover That Needs to Be Removed

取り外しが必要なカバー/Covers That Need to Be Removed

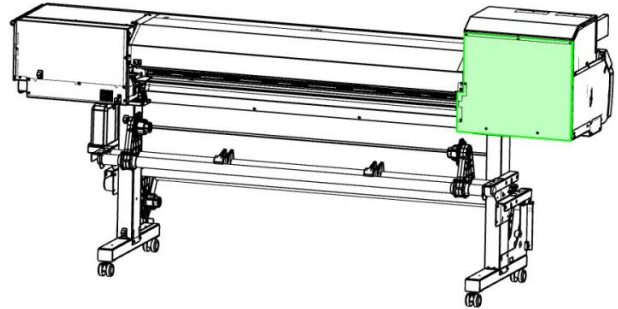


XP-640 Tube conversion from 8-color machine to 4-color machine

XP-640 Tube conversion from 8-color machine to 4-color machine Procedure

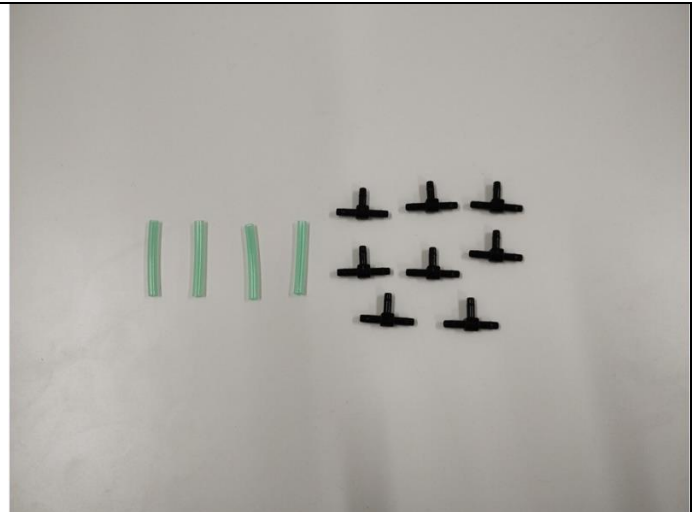
Step 1 / 12

Remove the COVER, BACK L.



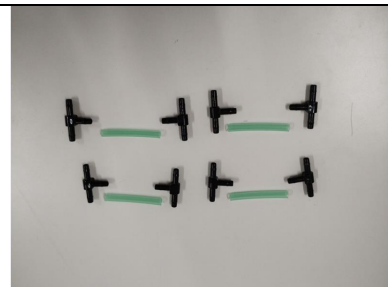
Step 2 / 12

Prepare 8 T-joints and 4 cut tubes included in package.



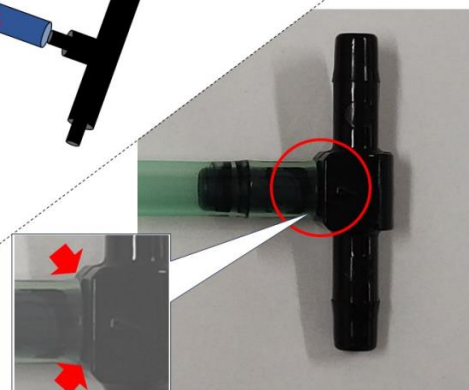
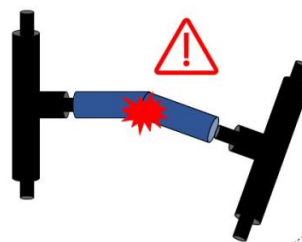
Step 3 / 12

Detail 1: Assembly arrangement



Step 4 / 12

(Caution) Insert the tubes in such a way that they do not break, as airtightness cannot be maintained if the tubes break. Make sure the tubes are firmly inserted to the base of the joint.



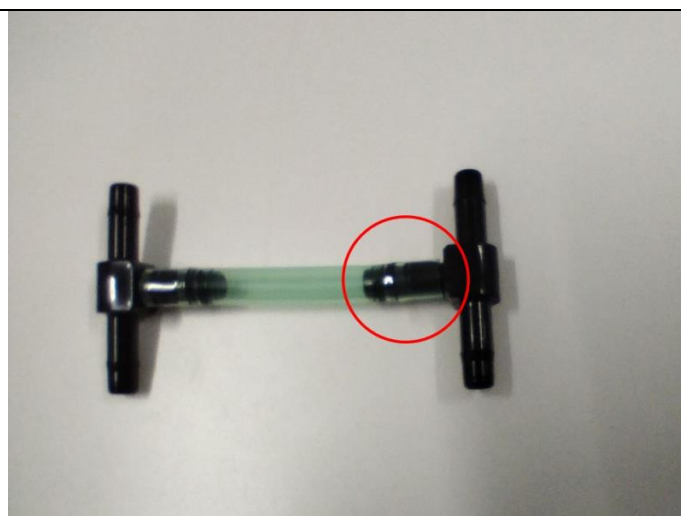
Step 5 / 12

Insert the T-joint into the tube.



Step 6 / 12

Insert the other T-joint.



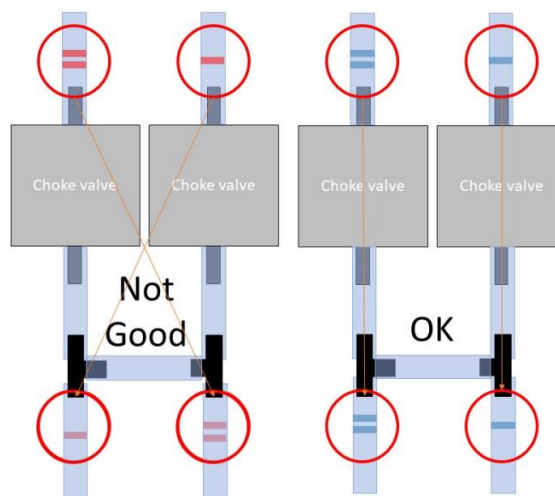
Step 7 / 12

Make the four sets.



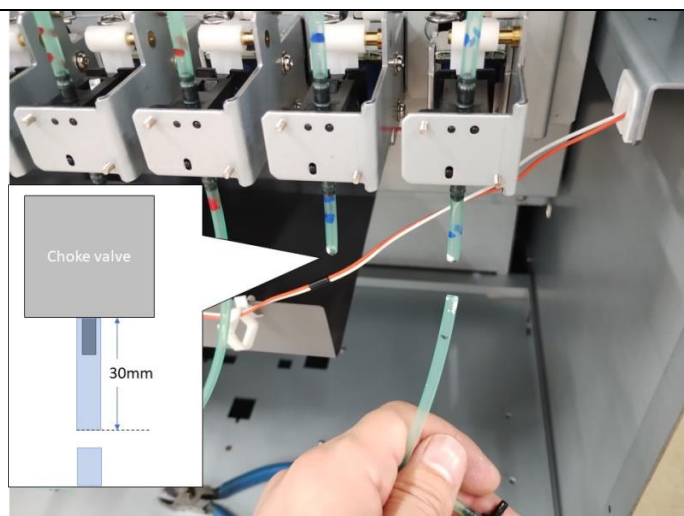
Step 8 / 12

(Caution) Do not insert the left and right tubes in opposite directions. The mark on the tube between the ink cartridge and choke valve and the mark on the tube between the damper and choke valve should be on the same line.



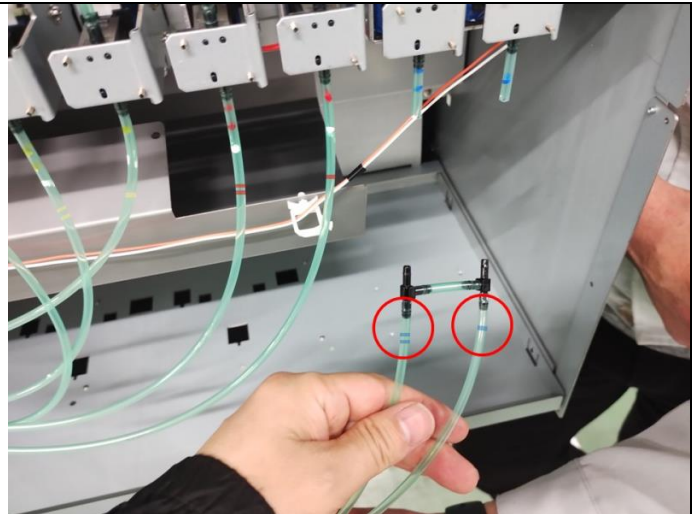
Step 9 / 12

Cut the tube between the damper and choke valve at 30 mm from the choke valve.



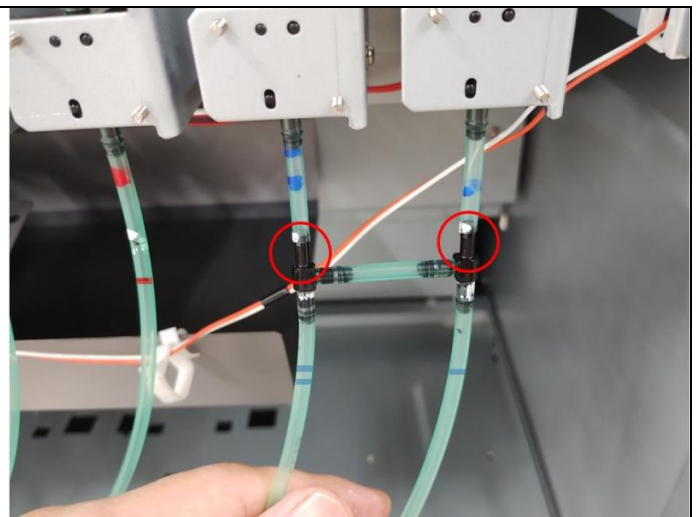
Step 10 / 12

Attach the tube and joint between the damper and choke valve.



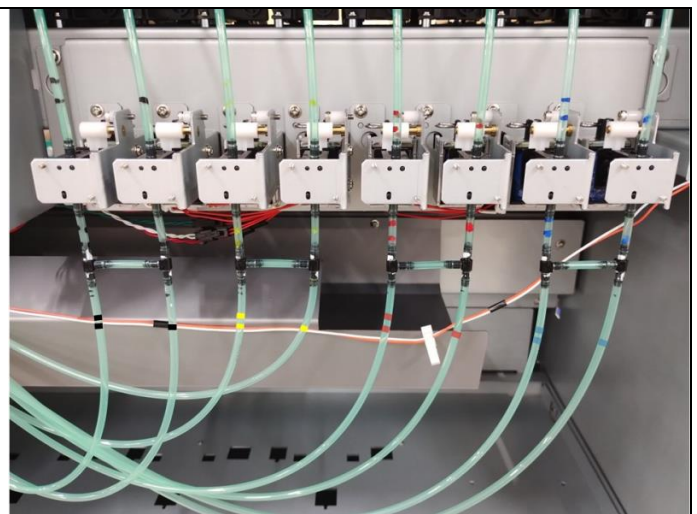
Step 11 / 12

Attach the tubes attached to the joint and choke valve.



Step 12 / 12

Attach the remaining three sets of joints in the same manner.



XP-640 Print Head Replacement

XP-640 Print Head Replacement Information

Step 1 / 3

General Tools

一般ツール/General Tool

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

Step 2 / 3

Special Tools

特殊治具/Special Tools

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

Step 3 / 3

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
ヘッド交換 Head Replacement	30 min.
ヘッド情報クリア Clearing the print head information	1 min.

XP-640 Print Head Replacement

XP-640 Print Head Replacement Procedure

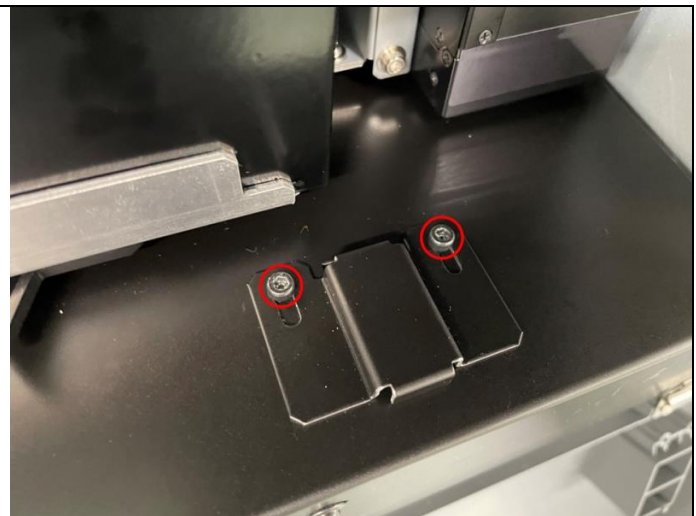
Step 1 / 45

Remove the cover.



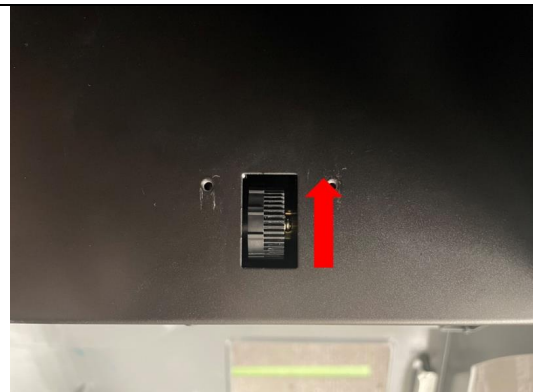
Step 2 / 45

Remove the cap up/down gear cover.



Step 3 / 45

Turn the gear backward 5 times to lower the cap and then move the carriage slightly to the left.



Step 4 / 45

Remove the print head carriage cover.



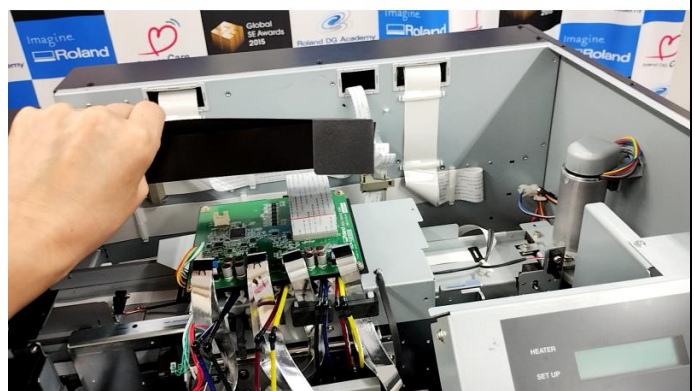
Step 5 / 45

[When replacing the print head with flexible cable] Up to step 20



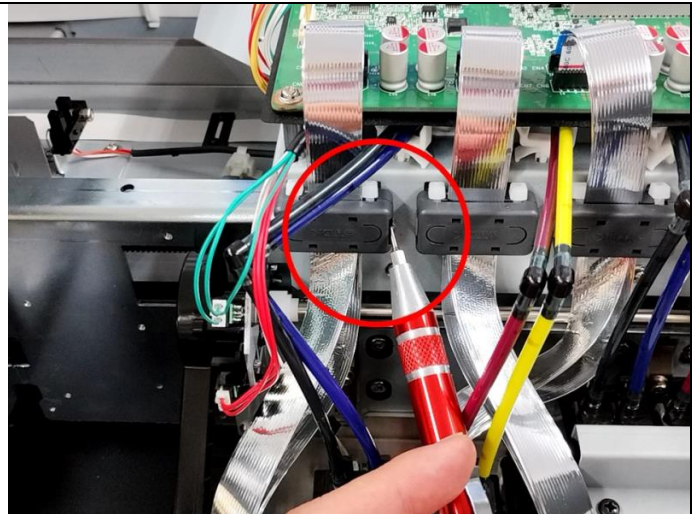
Step 6 / 45

Remove the print carriage board cover.



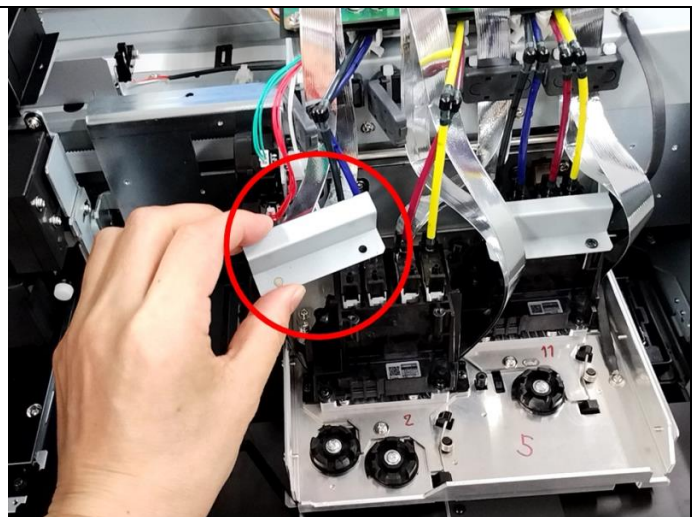
Step 7 / 45

Open the ferrite core holding the flexible cable of the print head to be replaced with a tool such as tweezers.



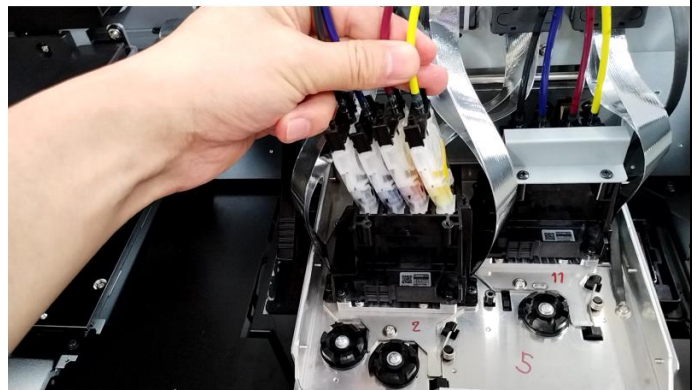
Step 8 / 45

Remove the plate that holds the damper.



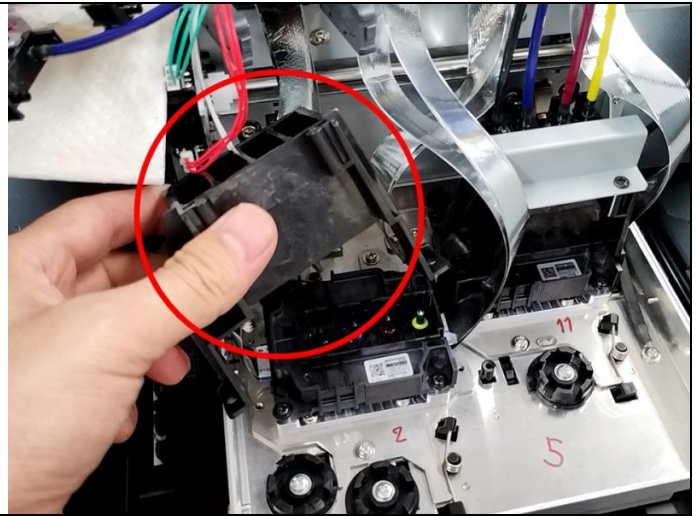
Step 9 / 45

Pull out the 4 dampers from the print head.



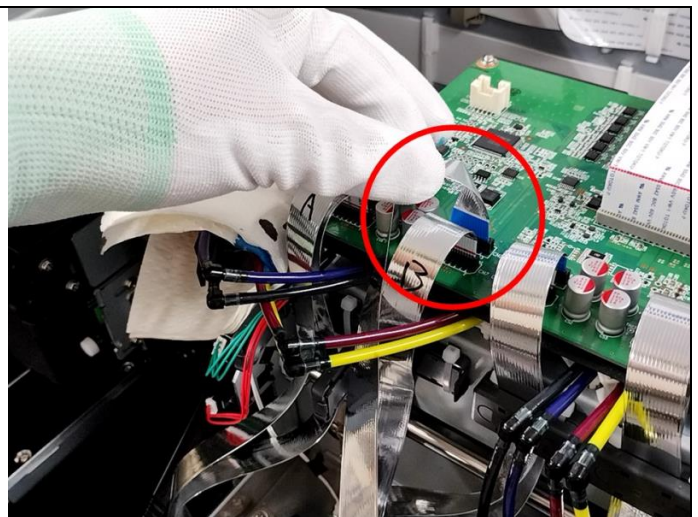
Step 10 / 45

Remove the damper cover.



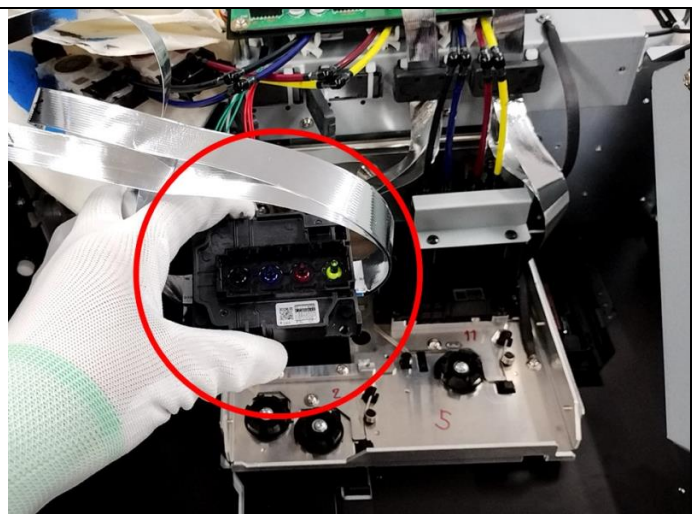
Step 11 / 45

Disconnect the flexible cable from the print head carriage.



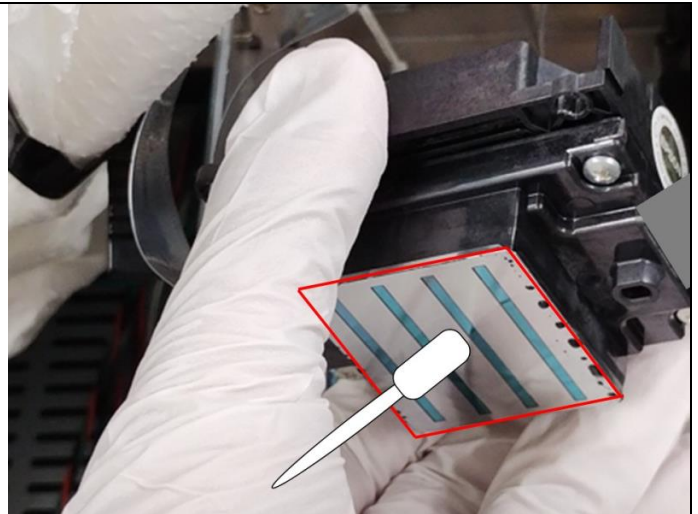
Step 12 / 45

Remove the print head and install a new print head.



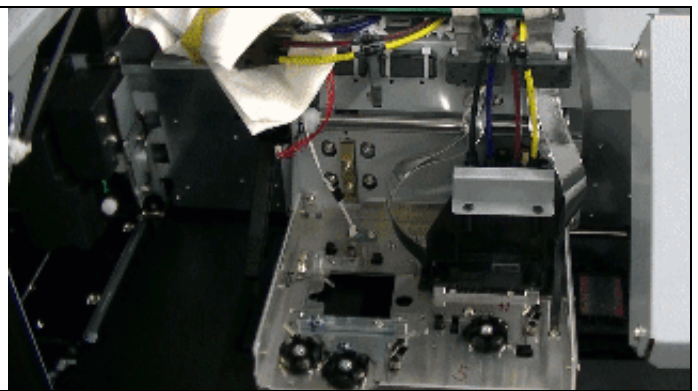
Step 13 / 45

Clean the surface of the new print head
with TR2-CL2 cleaning solution.



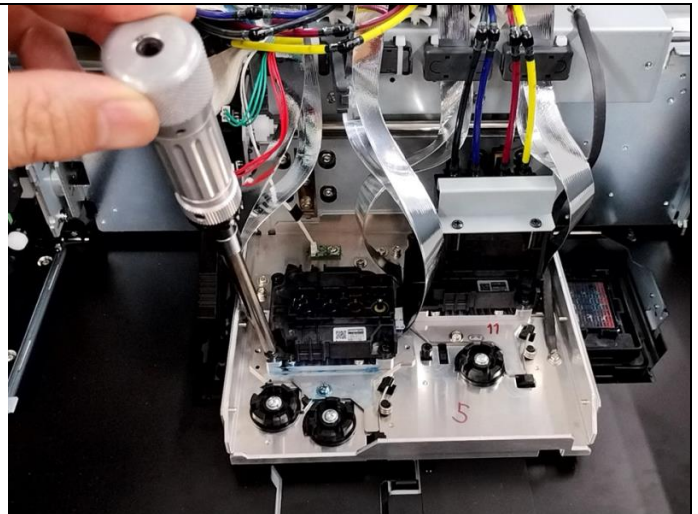
Step 14 / 45

Install a new print head.



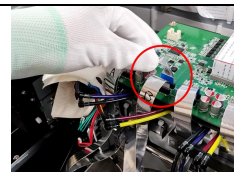
Step 15 / 45

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



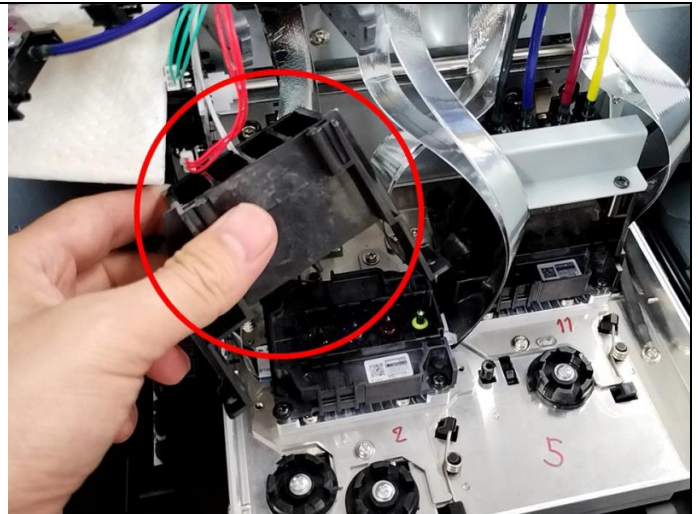
Step 16 / 45

Attach the flexible cable.



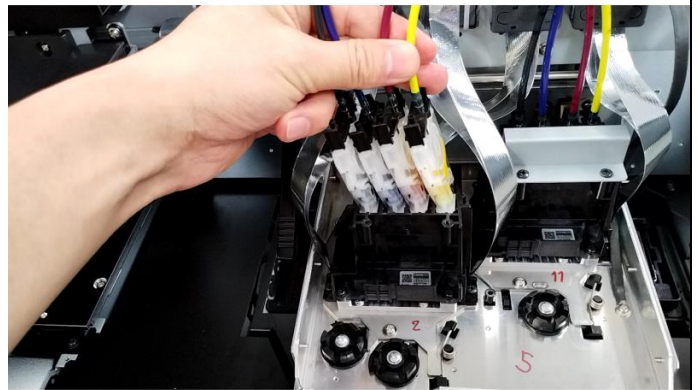
Step 17 / 45

Install the damper cover.



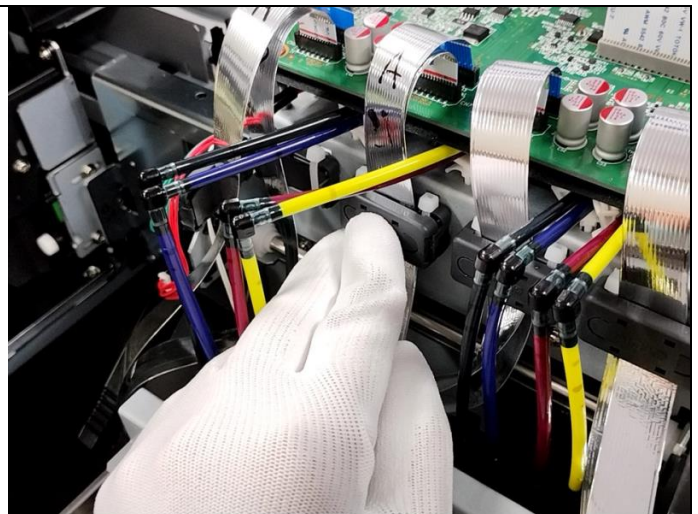
Step 18 / 45

Attach the damper.



Step 19 / 45

Attach the flexible cable to the ferrite core.



Step 20 / 45

Attach the removed cover.



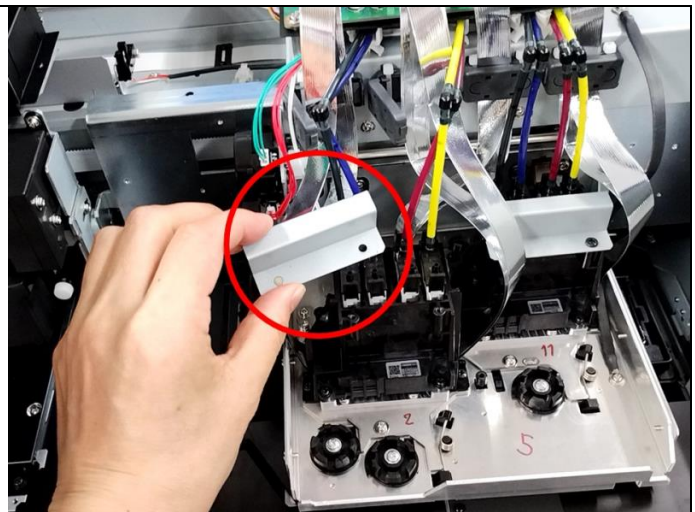
Step 21 / 45

[When replacing the print head only] Up
to Step 34



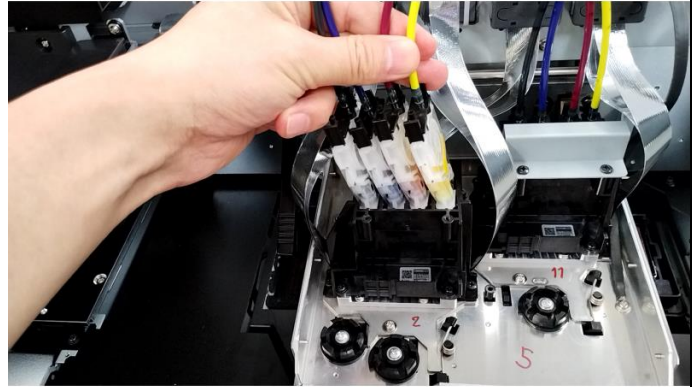
Step 22 / 45

Remove the plate that holds the damper.



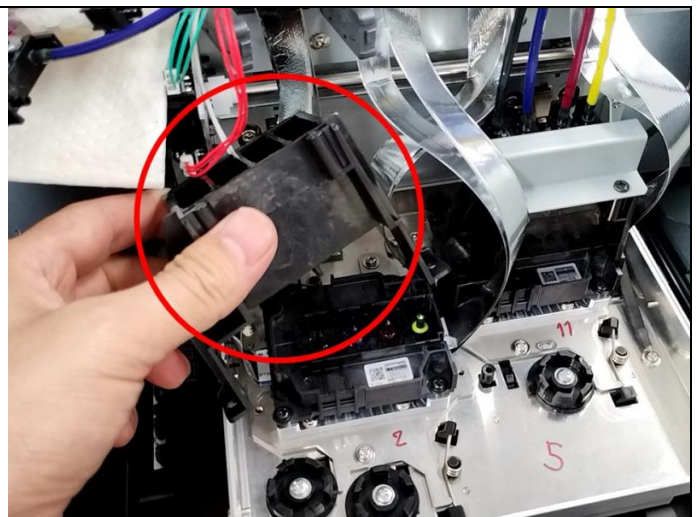
Step 23 / 45

Pull out the 4 dampers from the print head.



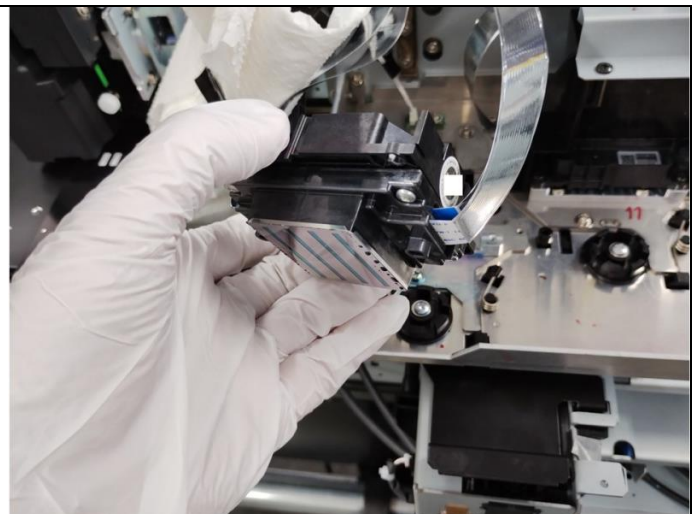
Step 24 / 45

Remove the damper cover.



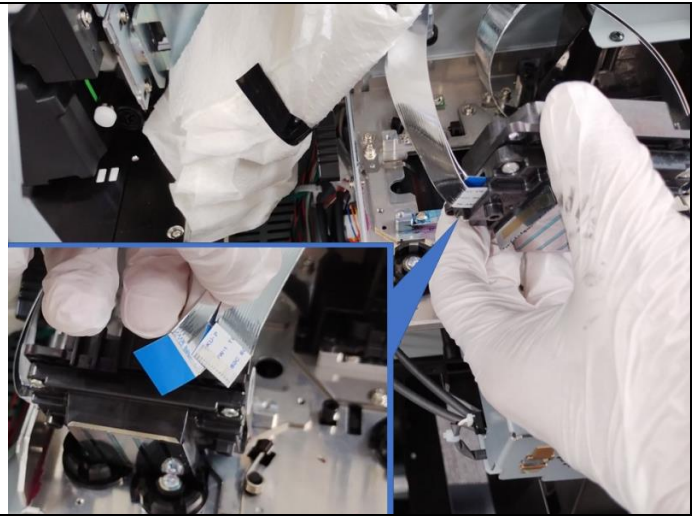
Step 25 / 45

Remove the print head.



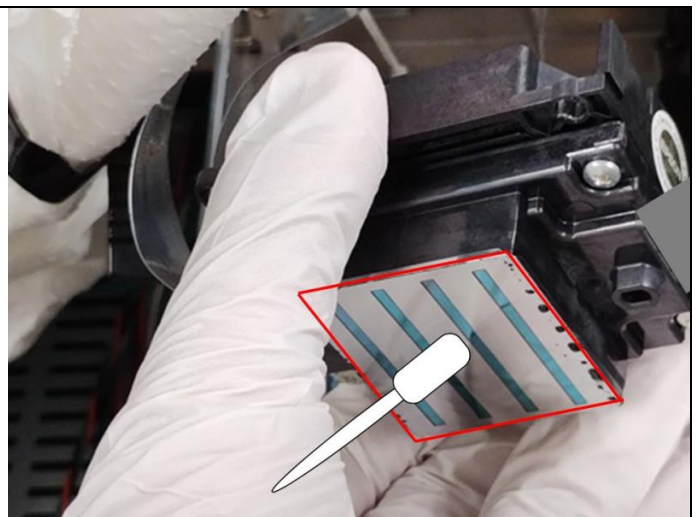
Step 26 / 45

Disconnect the flexible cables attached to the left and right sides of the print head.



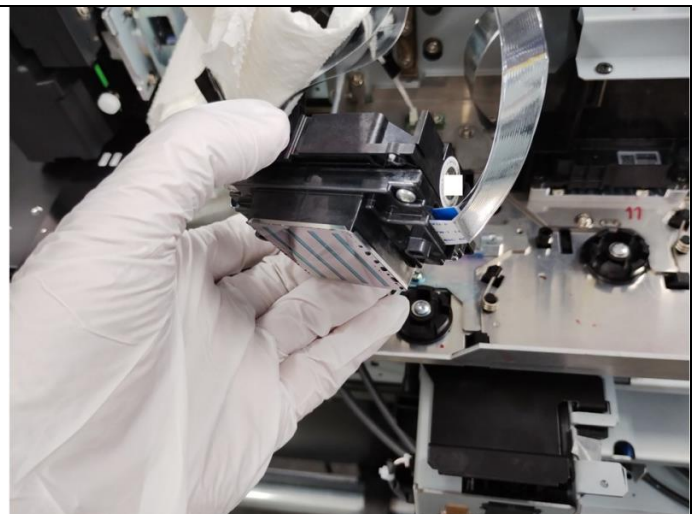
Step 27 / 45

Clean the surface of the new print head using TR2-CL2 cleaning solution.



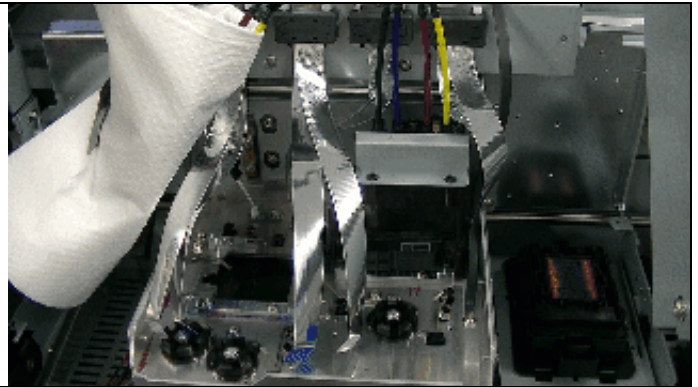
Step 28 / 45

Insert the flexible cable into the new print head.



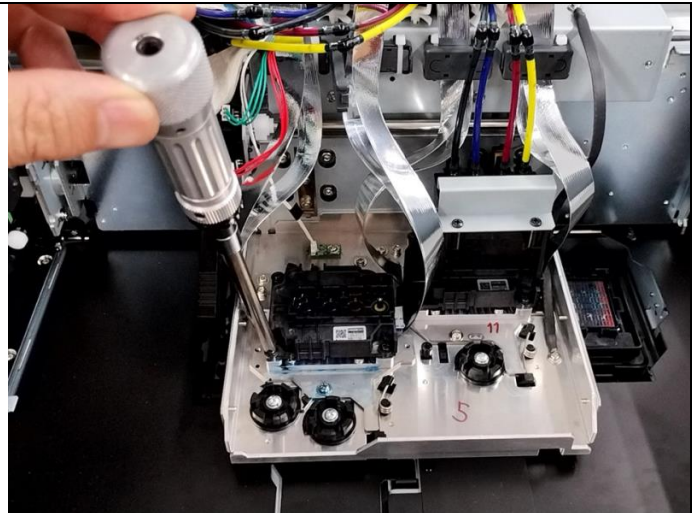
Step 29 / 45

Attach the print head.



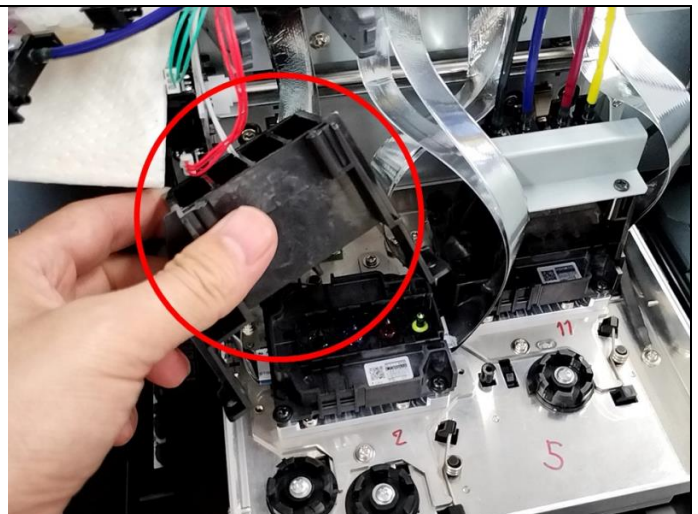
Step 30 / 45

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



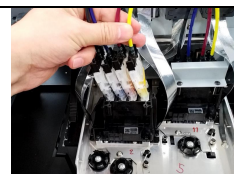
Step 31 / 45

Install the damper cover.



Step 32 / 45

Install the damper.



Step 33 / 45

Attach the removed cover.



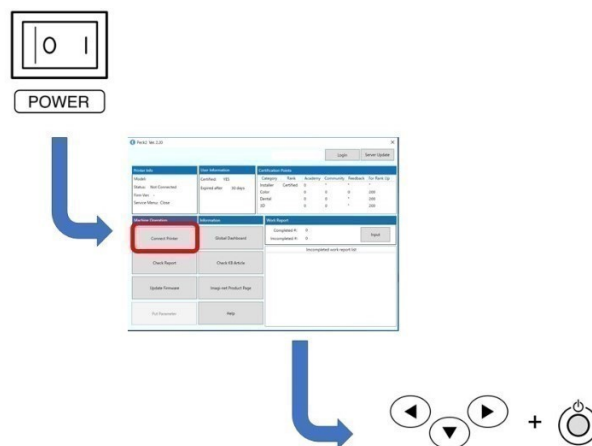
Step 34 / 45

Install the gear cover.



Step 35 / 45

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



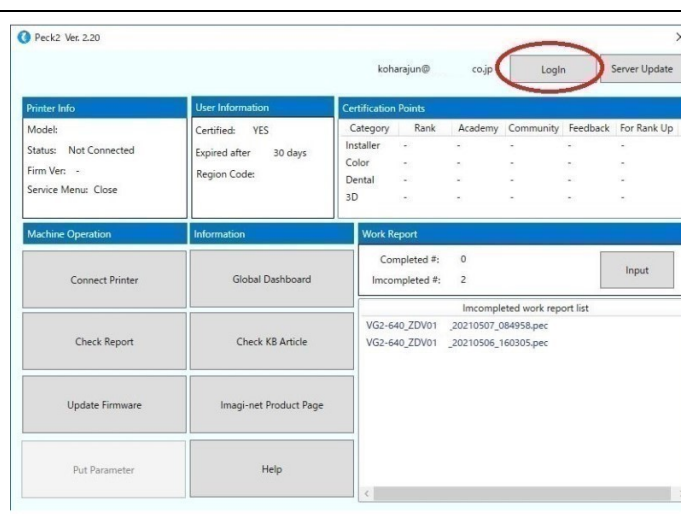
Step 36 / 45

Detail 1: Start Peck2.



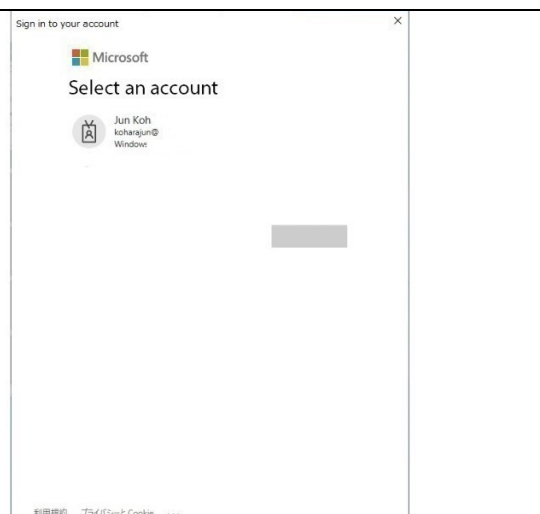
Step 37 / 45

Detail 2: Click the [Login] button.



Step 38 / 45

Detail 3: Login with your Imagi-net ID.



Step 39 / 45

Detail 4: 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	Input
Update Firmware	Imagi-net Product Page	Imcompleted #: 2
Put Parameter	Help	

Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Step 40 / 45

Detail 5: Enter the IP address of the machine you wish to connect to.

Peck2 Ver. 2.20

koharjun@ .co.jp Login Server Update

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

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

Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Step 41 / 45

Detail 6: When the printer is connected, printer information will be displayed in [Printer Info].

Peck2 Ver. 2.20

koharjun@ .co.jp Login Server Update

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

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

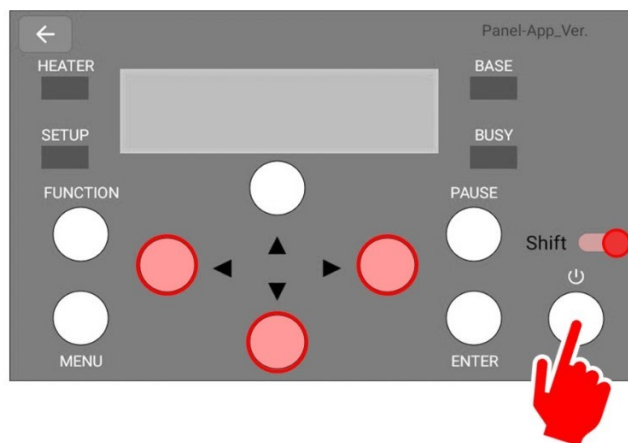
Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

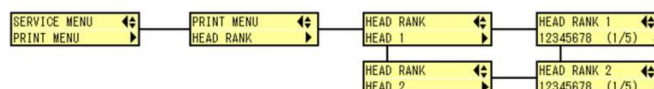
Step 42 / 45

Detail 7: Press [Shift] > [□]+[□]+[□]+[Sub Power] on the panel to enter the service mode.



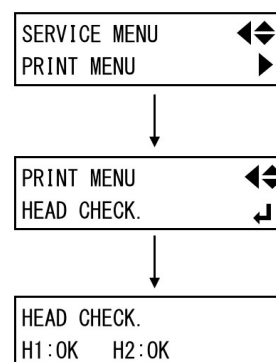
Step 43 / 45

The head rank is automatically registered when the power is turned on. Check if the new head rank is entered.



Step 44 / 45

[Firmware Ver. 1.30 or later] Perform a head check to confirm that the flexible cable is properly connected. Also, by performing the head check, the print head information is automatically cleared.



Step 45 / 45

Proceed to print head alignment.



次の手順

プリントヘッド位置調整

Next Step

Print head alignment

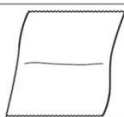
XP-640 Print Head Cap Replacement

XP-640 Print Head Cap Replacement Information

Step 1 / 3

Items to prepare

用意するもの/Preparation

プリントヘッドキャップ Print Head Cap	
クリーニングスティック Cleaning Stick	
ウエス Waste cloth	

Step 2 / 3

Typical work time

作業時間/Typical work time

作業内容/Contents of work	時間/Time
プリントヘッドキャップ交換 Print Head Cap Replacement	5 min.
キャップトップ情報クリア Clearing the Cap Top information	1 min.

Step 3 / 3

Print head cap



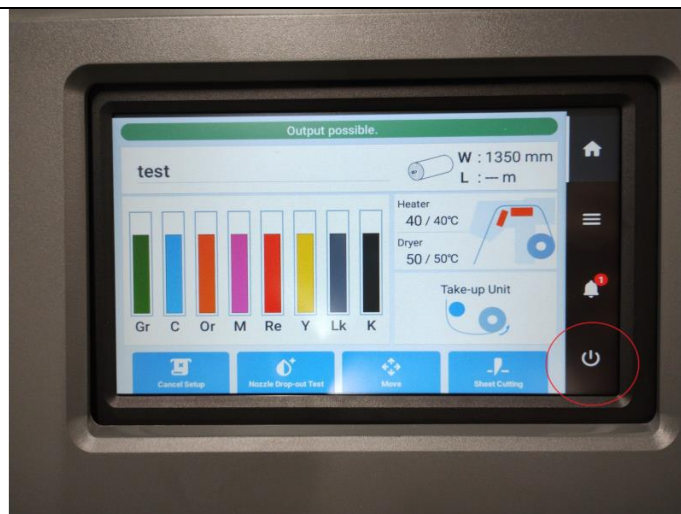
XP-640 Print Head Cap Replacement

XP-640 Print Head Cap Replacement

Procedure

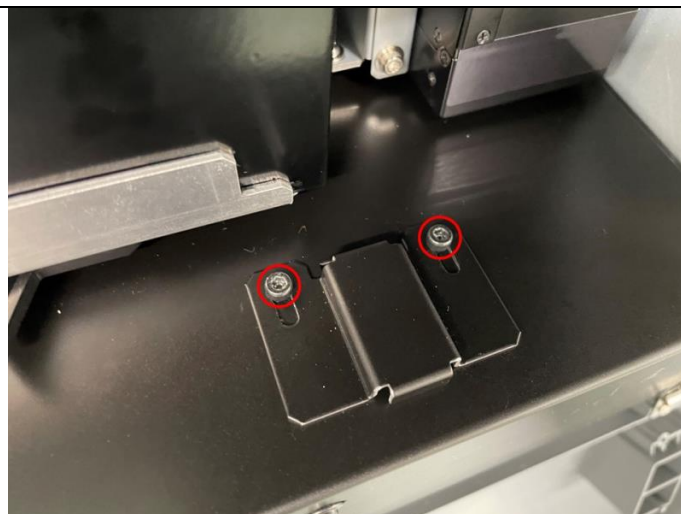
Step 1 / 11

Turn off the sub power switch.



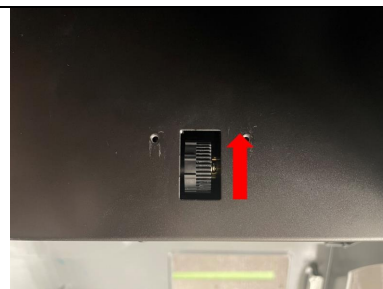
Step 2 / 11

Remove the cap up/down gear cover.

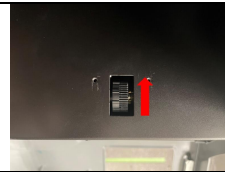


Step 3 / 11

Turn the gear backward about 5 times to lower the cap, and then move the carriage slightly to the left. Turn the



gear forward about 10 times to raise the cap.



Step 4 / 11

Hold the sides of the print head cap, unlock the front and rear locks, and lift it up.



Step 5 / 11

If ink has accumulated in the print head cap base, clean it with a cleaning stick.



Step 6 / 11

Insert the new print head cap until it snaps into place.



Step 7 / 11

After lowering the cap, move the print head to the lock position.



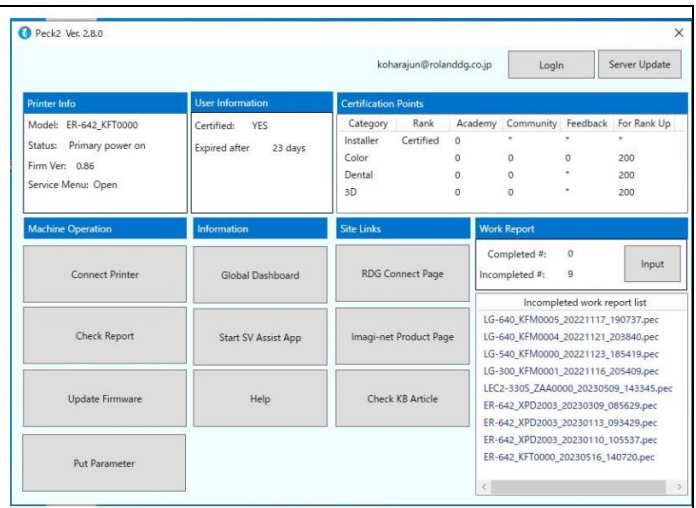
Step 8 / 11

Install the gear cover.



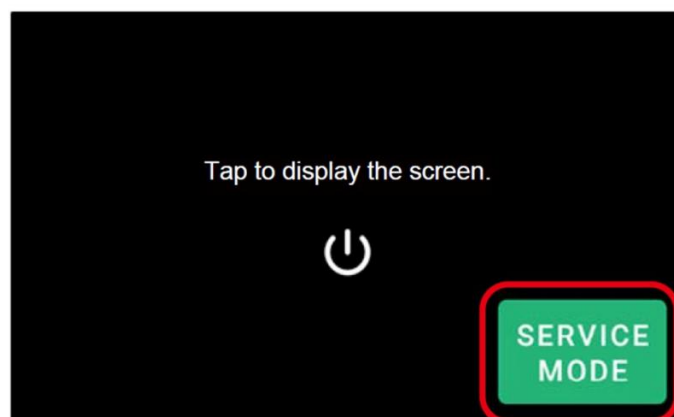
Step 9 / 11

Start Peck2.



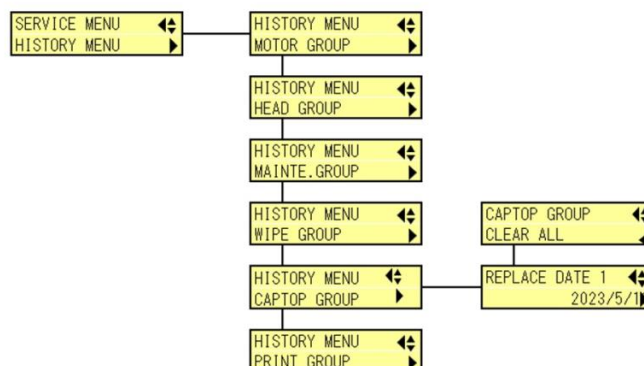
Step 10 / 11

Start the machine in Service Mode.



Step 11 / 11

Clear the print head cap information in
[HISTORY Menu] > [CAP TOP GROUP].



XP-640 Main Board Replacement

XP-640 Main Board Replacement

Information

Step 1 / 5

General Tools

交換に必要なツール/Necessary tools

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

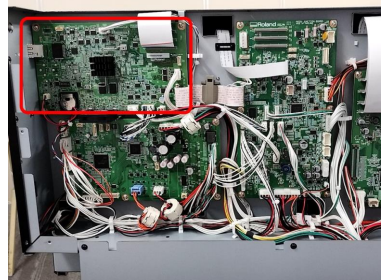
Step 2 / 5

Typical work time

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

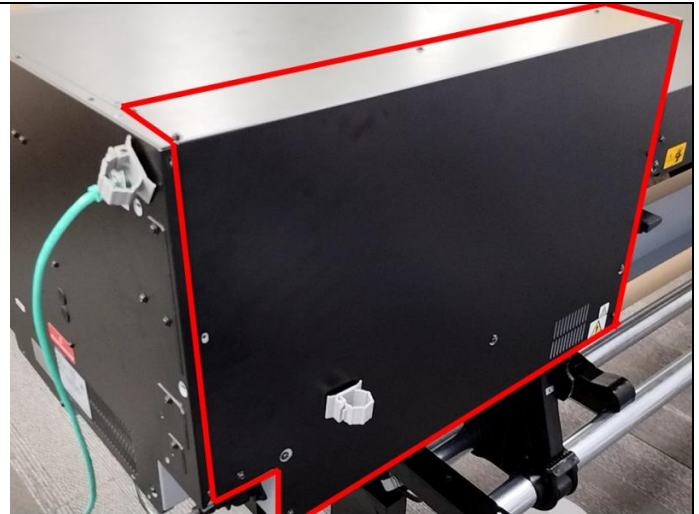
Step 3 / 5

Main board



Step 4 / 5

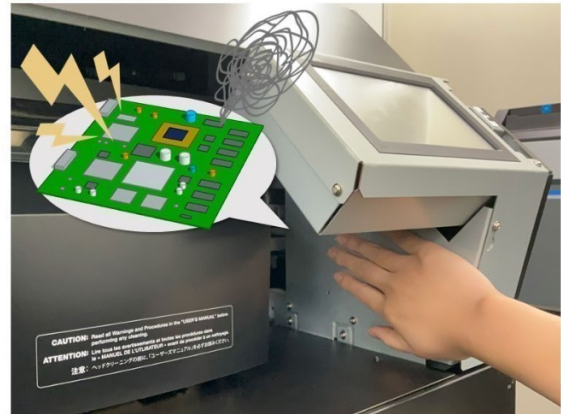
Cover that needs to be removed



Step 5 / 5

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

CAUTION !

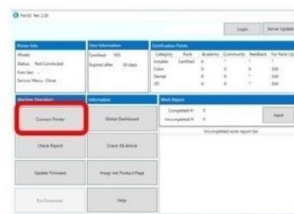


XP-640 Main Board Replacement

XP-640 Main Board Replacement Procedure

Step 1 / 50

Start Peck2 and click [Connect Printer]
to connect the machine.



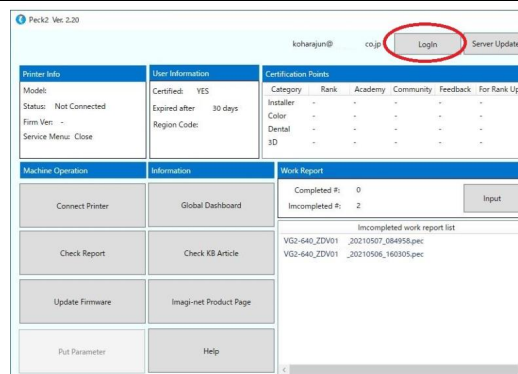
Step 2 / 50

Detail 1: Start Peck2.



Step 3 / 50

Detail 2: Click the [Login] button.

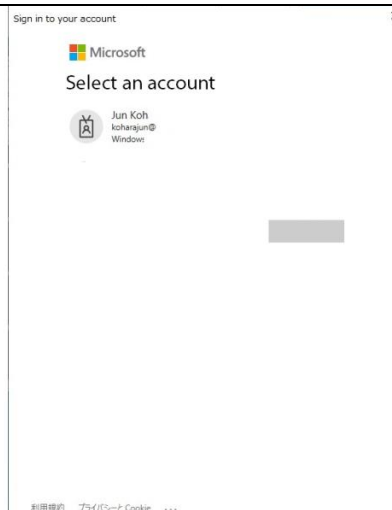


Friday, July 4, 2025 10:23 AM

Language: en

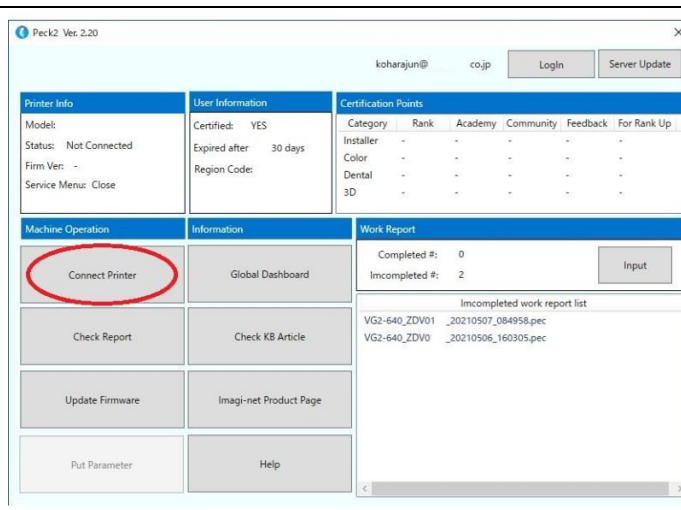
Step 4 / 50

Detail 3: Login with your Imagi-net ID.



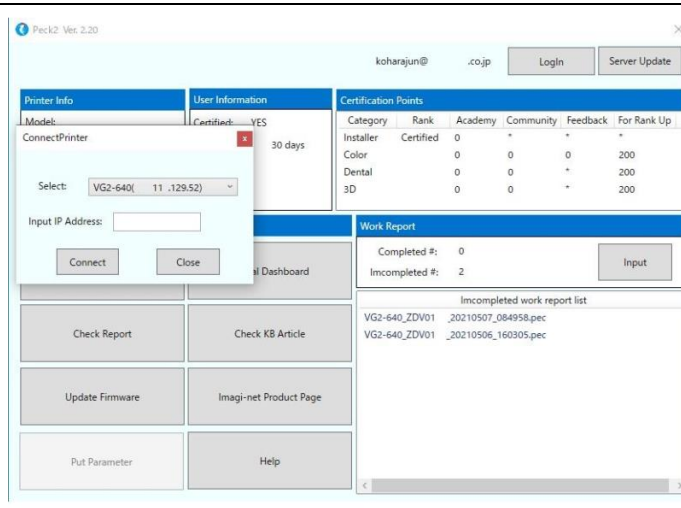
Step 5 / 50

Detail 4: Click the [Connect Printer] button.



Step 6 / 50

Detail 5: Enter the IP address of the machine you wish to connect.



Step 7 / 50

Detail 6: If the printer is connected, the printer information will be displayed in [Printer Info].

Peck2 Ver. 2.20

koharjun@ .co.jp Login Server Update

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

Machine Operation		Information		Work Report	
Connect Printer	Global Dashboard	Completed #:	0	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 / 50

Detail 7: Parameters can be obtained automatically when the printer is connected. Click [Put Parameter] 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:	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 9 / 50

Detail 8: Confirm the parameter file.

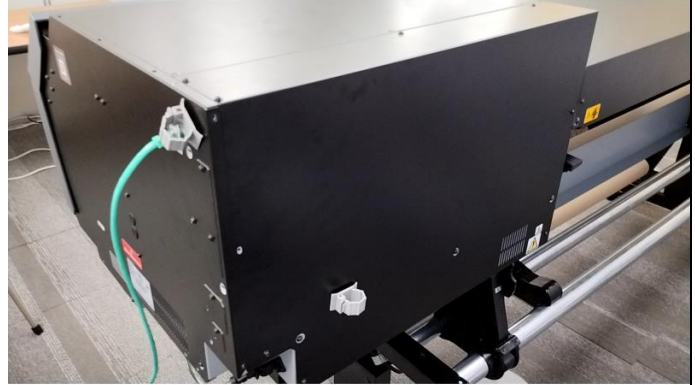
AppData > Roaming > Peck2 > DeviceInfo > Parameter

Parameterの検索

VG2-640_ZDV010_4_20210507_101019.para

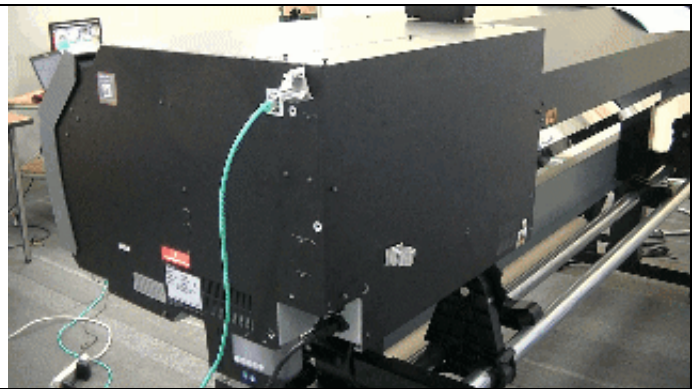
Step 10 / 50

Turn off the main power and remove the cover.



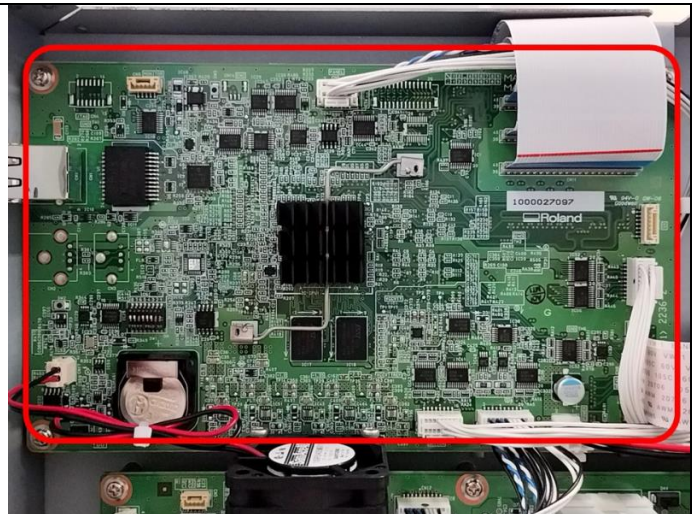
Step 11 / 50

Detail 1: Video: removing the cover



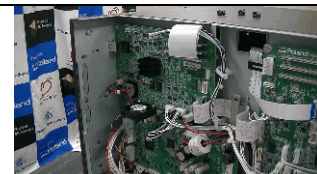
Step 12 / 50

Disconnect the connectors and remove the main board.



Step 13 / 50

Detail 1: Video: removing the main

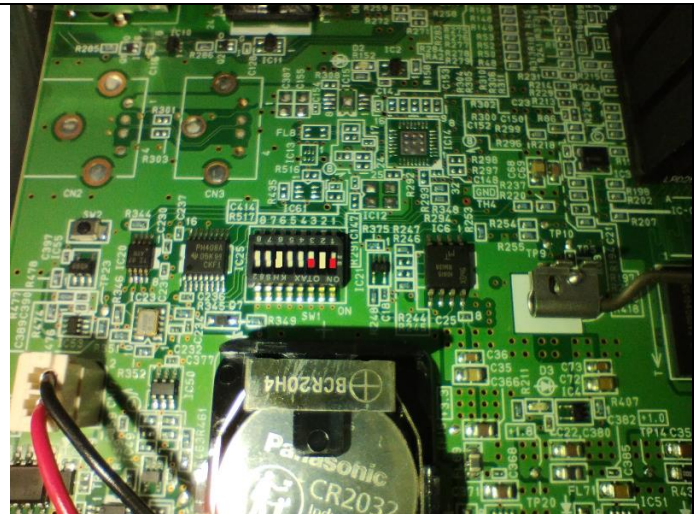


board



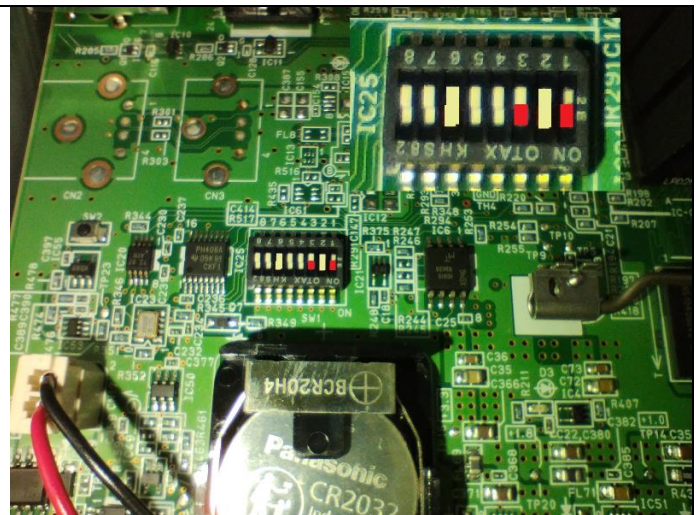
Step 14 / 50

Change the DIP SW of the new main board for XP-640.



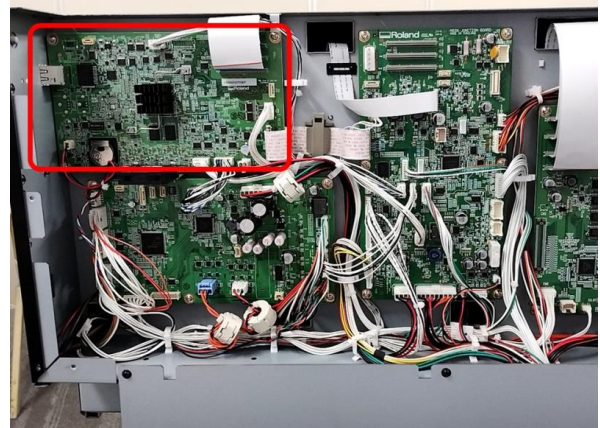
Step 15 / 50

Set [1], [3] of DIP SW to ON.



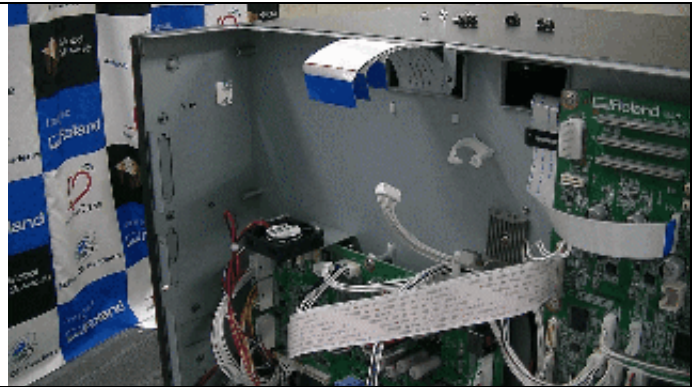
Step 16 / 50

Install the new main board.



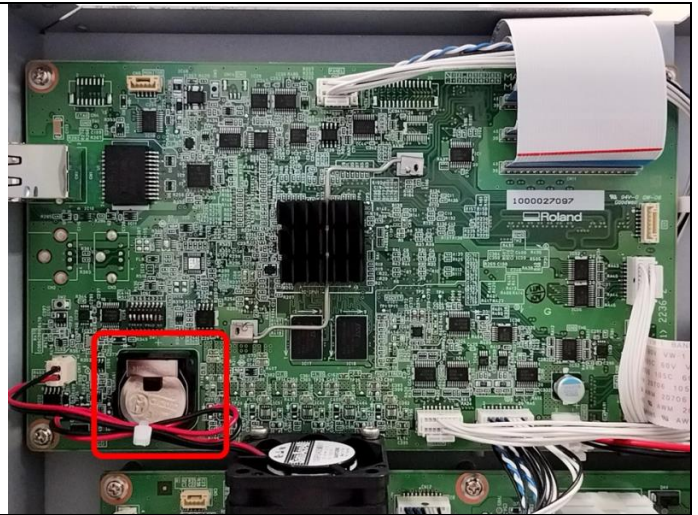
Step 17 / 50

Detail 1: Main board installation



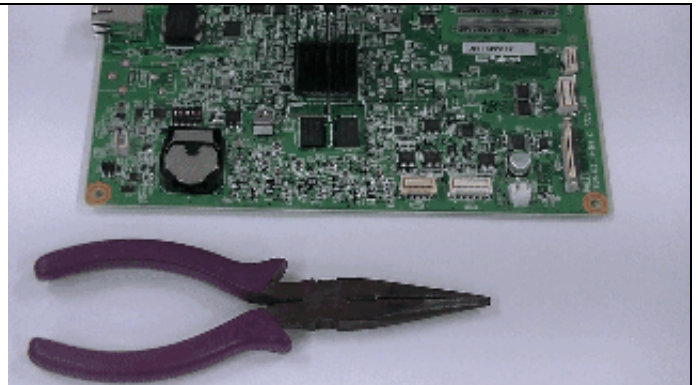
Step 18 / 50

Be sure to install the removed batteries on the new main board.



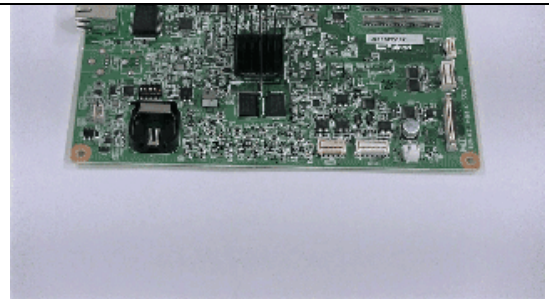
Step 19 / 50

Detail 1: Removing battery



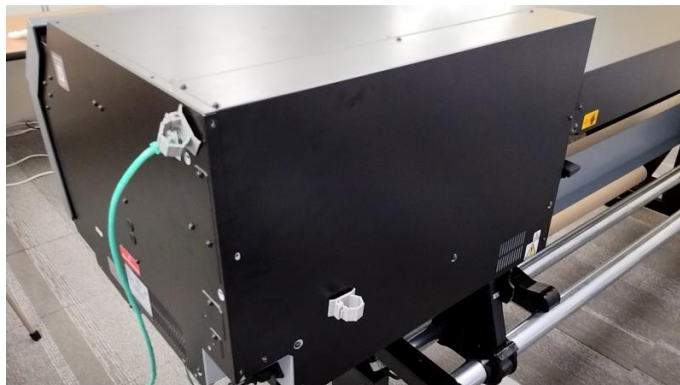
Step 20 / 50

Detail 2: Installing battery



Step 21 / 50

Attach the cover.



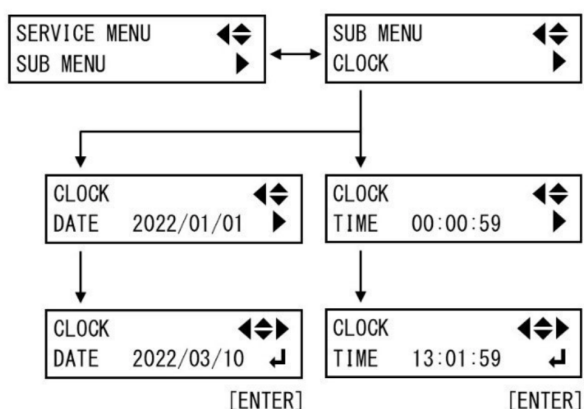
Step 22 / 50

This is the procedure when the parameters can be transferred by Peck2.
If there are no parameters, skip this procedure and proceed to "When the parameters cannot be transferred by Peck2".



Step 23 / 50

□□□□□□□□□□□□□□ [□□]□[
YYYYYY/MM/DD]□□□□□□□□□□



Step 24 / 50

Put □□□□□□□□□□□□

Peck2 Ver. 2.40

***@*.co.jp Login Server Update

Printer Info	User Information	Certification Points
Model: VG3-640	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: UPDATE MODE	Expired after 30 days	Installer
Firm Ver: -		Color
Service Menu: Close		Dental
		3D

Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0 Incomplete #: 28 Input
Check Report	Check KB Article	Incompleted work report list
Update Firmware	Imagi-net Product Page	
Put Parameter	Help	

Step 25 / 50

Install the firmware. See [Firmware Installation] procedure.



次の手順

ファームウェアインストール

Next Step

Firmware Installation

Step 26 / 50

This is the procedure to follow if you cannot transfer parameters by Peck2. If you were able to transfer the parameters, the work is complete.



Step 27 / 50

Install the firmware. See [Firmware Installation] procedure.



次の手順

ファームウェアインストール

Next Step

Firmware Installation

Step 28 / 50

Detail 1: 1. Firmware installation



次の手順

ファームウェアインストール

Next Step

Firmware Installation

Step 29 / 50

Detail 2: 2. System parameter initialization



次の手順

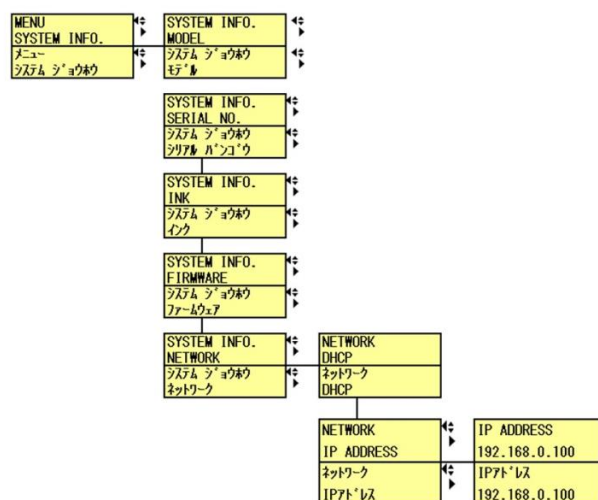
システムパラメーターイニシャライズ

Next Step

System parameter initialize

Step 30 / 50

Go to User Menu and set IP Address.



Step 31 / 50

Detail 1: Enter the Temporary IP Address mode.



次の手順

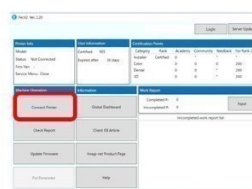
暫定IPアドレス設定

Next Step

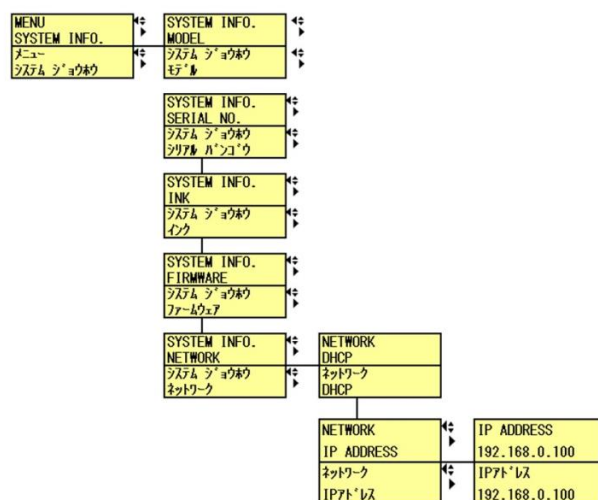
Temporary IP address setting

Step 32 / 50

Detail 2: Connect Peck2 with the machine.



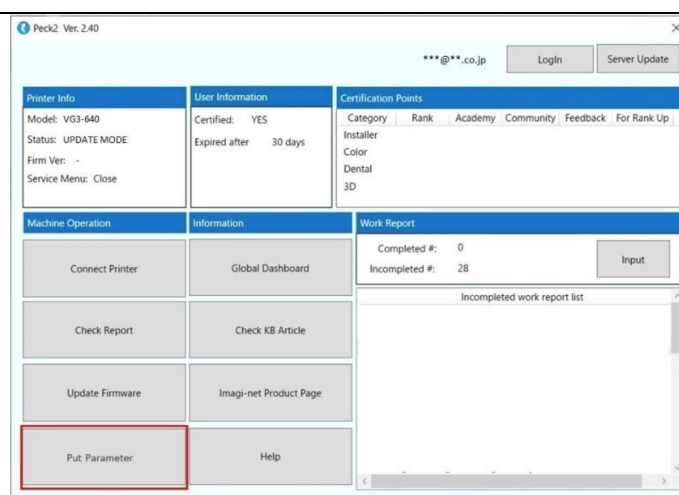
Detail 3: Go to User Menu and set IP Address.



□ □

□ □

5



□ □

5



□ □

[illegible][illegible]

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □



Set Language and Units.



言語・単位設定

Language and unit settings

Step 39 / 50

Set IP Address.



次の手順

IPアドレス設定

Next Step

IP address setting

Step 40 / 50

Set the date and time.



次の手順

日時設定

Next Step

Date and time settings

Step 41 / 50

Limit Position Initialization: See [Limit Position Initialization].



次の手順

リミット位置調整

Next Step

Limit position adjustment

Step 42 / 50

Serial number input



次の手順

シリアルナンバー入力

Next Step

Serial number input

Step 43 / 50

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



次の手順

インクタイプ設定

Next Step

Ink type setting

Step 44 / 50

Wiper position adjustment: See [Wiper position adjustment].



次の手順

ワイパー位置調整

Next Step

Wiper position adjustment

Step 45 / 50

Cap height adjustment: See [Cap height adjustment].



次の手順

キャップ高さ調整

Next Step

Cap height adjustment

Step 46 / 50

Print head alignment: See [Print head alignment]. Adjust only Horizontal and M-GAP DEFAULT with PET2-G.



次の手順

ヘッド位置調整

Next Step

Print head adjustment

Step 47 / 50

Feed calibration: See [Feed calibration].



次の手順

距離補正

Next Step

Feed calibration

Step 48 / 50

Tool pressure adjustment: See [Tool pressure adjustment].



次の手順

筆圧調整

Next Step

Tool pressure adjustment

Step 49 / 50

Multi sensor adjustment : See [Multi sensor adjustment].



次の手順

マルチセンサー調整

Next Step

Multi sensor adjustment

Step 50 / 50

User setting information has been also initialized, so please enter user settings.



次の手順

メディアギャップ補正及びキャリブレーション

Next Step

Media Gap Compensation and Calibration

XP-640 Battery Replacement

XP-640 Battery Replacement Information

Step 1 / 4

General Tools

一般ツール/General Tool

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



特殊治具/Special Tools

無し
None

Step 2 / 4

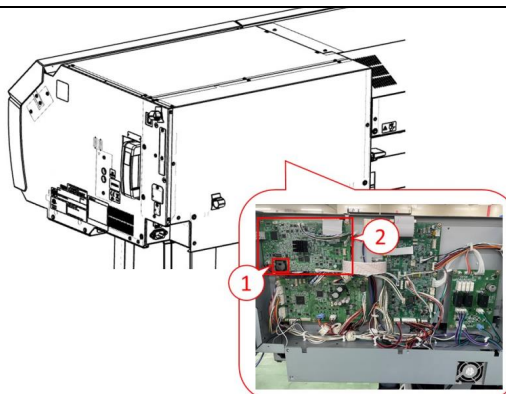
Typical Work Time

作業時間/Typical work time

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

Step 3 / 4

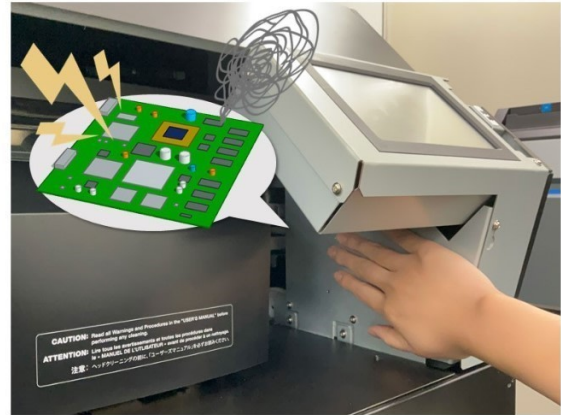
1. battery, 2. main board



Step 4 / 4

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

CAUTION !

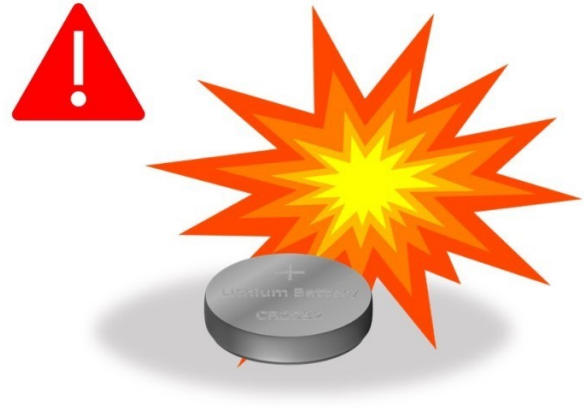


XP-640 Battery Replacement

XP-640 Battery Replacement Procedure

Step 1 / 23

Caution Lithium batteries may explode if not replaced properly. Replace the battery with one of the same type (or its equivalent) as the battery installed. Dispose of used batteries according to the manufacturer's instructions. Lithium battery: CR2032.



Step 2 / 23

Prohibited: Do not charge, short-circuit, disassemble, or throw into fire lithium batteries. Doing so may cause overheating, rupture, or ignition.



Step 3 / 23

Peck



Step 4 / 23

Put
Parameter

Peck2 Ver. 2.40

***@**.co.jp Login Server Update

Printer Info Model: VG3-640 Status: UPDATE MODE Firm Ver: - Service Menu: Close	User Information Certified: YES Expired after: 30 days	Certification Points Category Rank Academy Community Feedback For Rank Up Installer: Color Dental 3D
Machine Operation Connect Printer Check Report Update Firmware Put Parameter	Information Global Dashboard Check KB Article Imagi-net Product Page Help	Work Report Completed #: 0 Incomplete #: 28 Input Incomplete work report list

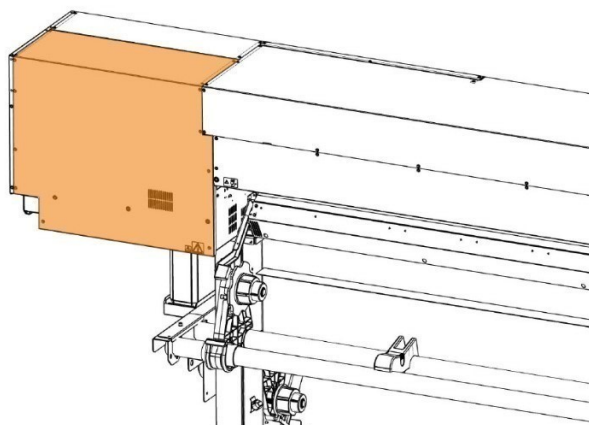
Step 5 / 23

> AppData > Roaming > Peck2 > DeviceInfo > Parameter

VG2-640_ZDV010
4_20210507_1010
19.para

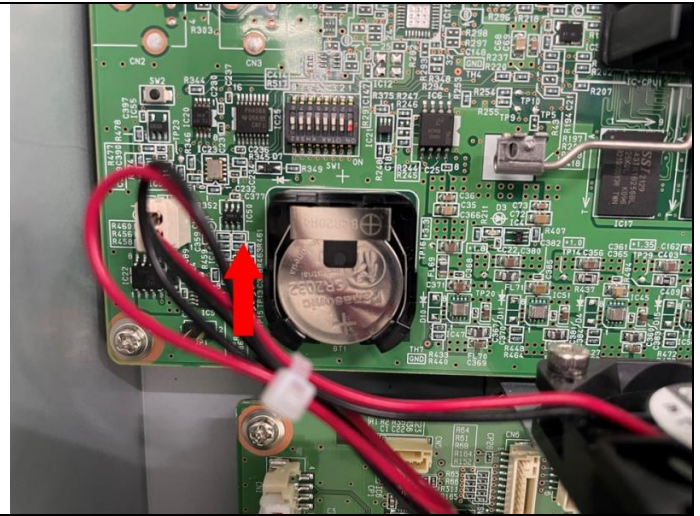
Step 6 / 23

Remove the cover.



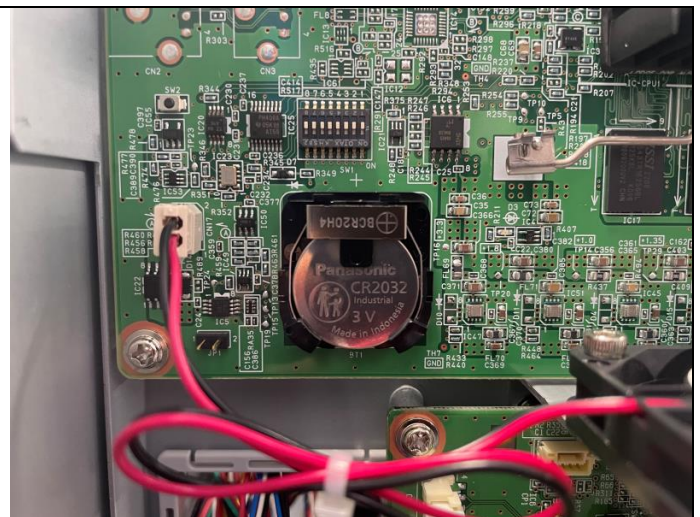
Step 7 / 23

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



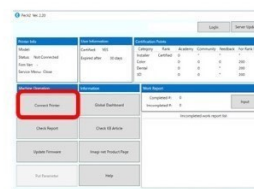
Step 8 / 23

Replace the battery with a new one. Be sure to install the battery in the correct orientation.



Step 9 / 23

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



Step 10 / 23

[Detail 1] Connect the power cable and turn on the power.



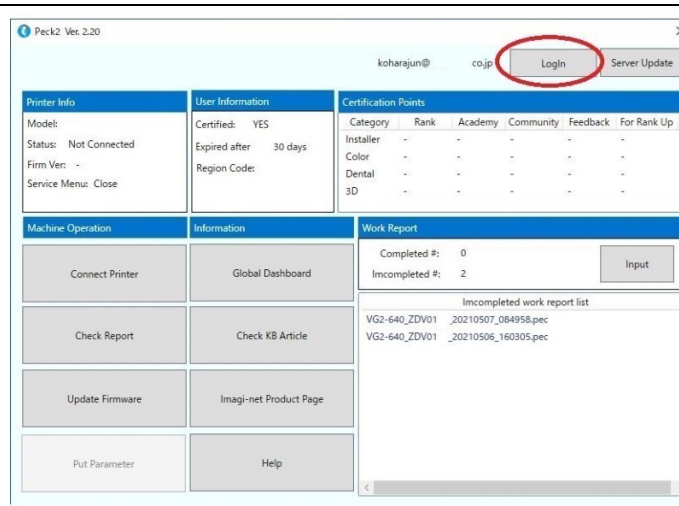
Step 11 / 23

[Detail 2] Start Peck2.



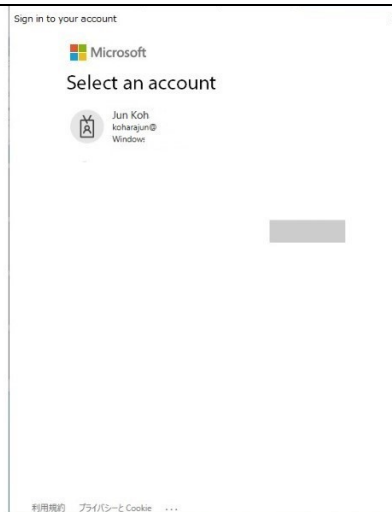
Step 12 / 23

[Detail 3] Click the [Login] button.



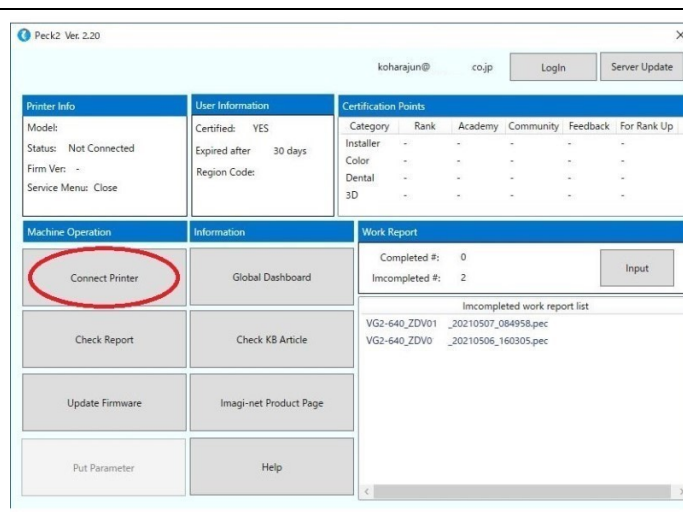
Step 13 / 23

[Detail 4] Login with your Imagi-net ID.



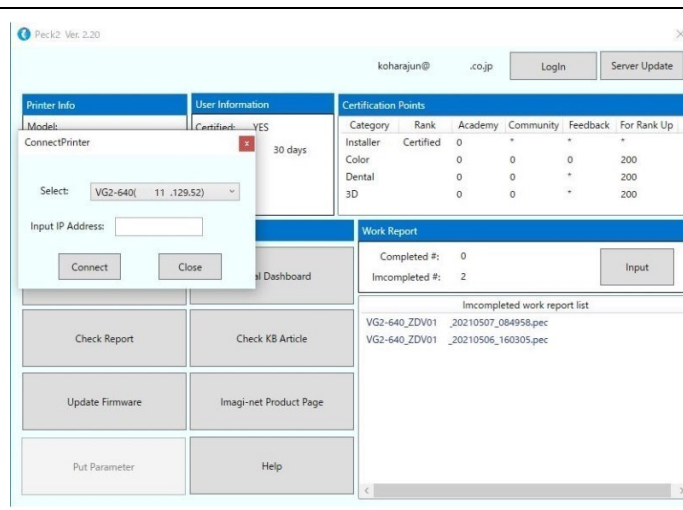
Step 14 / 23

[Detail 5] Click the [Connect Printer] button.



Step 15 / 23

[Detail 6] Enter the IP address of the device you wish to connect to.



Step 16 / 23

[Detail 7] When the printer is connected, printer information will be displayed in [Printer Info].

Peck2 Ver. 2.20

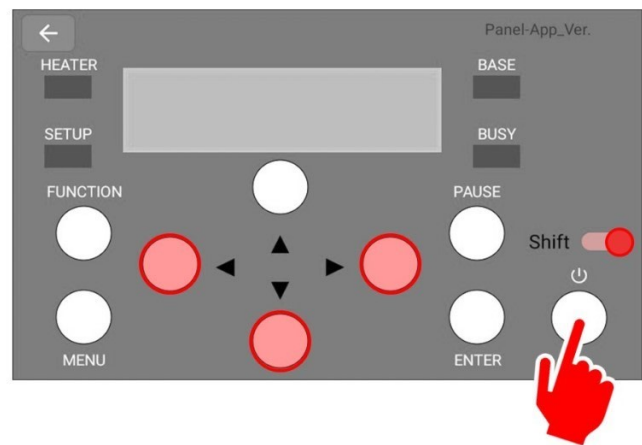
koharjun@ .co.jp Login Server Update

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

Machine-Operation		Information		Work Report	
Connect Printer	Global Dashboard	Completed #:	0	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			

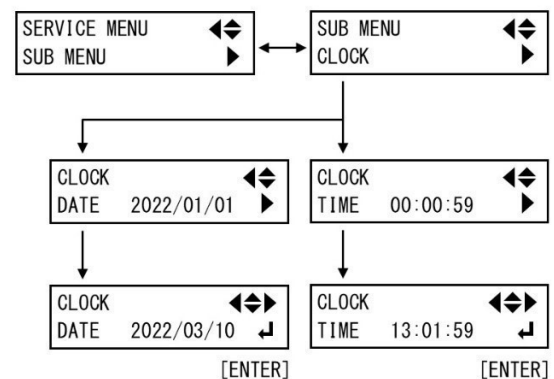
Step 17 / 23

[Detail 8] Press [Shift]> [□]+[□]+[□]+[Sub Power] on the panel to enter the service mode. By turning on the [Shift] button, multiple buttons can be pressed at the same time.



Step 18 / 23

Refer to the date/time adjustment procedure to perform date/time adjustment.



Step 19 / 23

Put□□□□□□□□□□□□□□

Peck2 Ver. 2.40

***@**.co.jp

Login

Server Update

Printer Info	User Information	Certification Points
Model: VG3-640	Certified: YES	Category Rank Academy Community Feedback For Rank Up
Status: UPDATE MODE	Expired after 30 days	Installer
Firm Ver: -		Color
Service Menu: Close		Dental
		3D

Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0
Check Report	Check KB Article	Incompleted #: 28
Update Firmware	Imagi-net Product Page	Input
Put Parameter	Help	Incompleted work report list

Step 20 / 23

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Peck□□□□□□□□□□□□□□□□□□□□

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Step 21 / 23

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Step 22 / 23

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[illegible][illegible]

Step 23 / 23

[illegible]

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XP-640 Scan Motor Replacement

XP-640 Scan Motor Replacement

Information

Step 1 / 5

General Tools

一般ツール/General Tool

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

Step 2 / 5

Other Tools

その他のツール/Other Tools

白色結束バンド(幅2.5mm) White bundling bands (2.5 mm wide)	
---	---

Step 3 / 5

Special Tools

特殊治具/Special Tools

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

Step 4 / 5

Typical work time

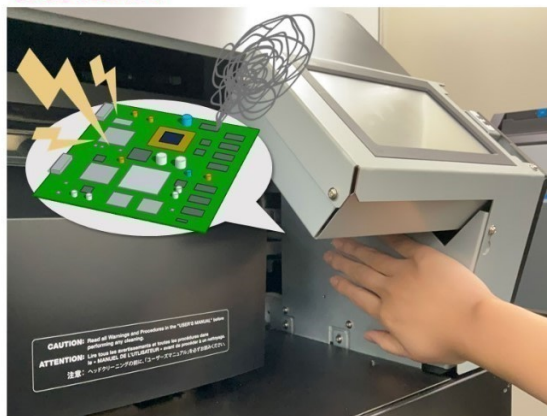
作業時間/Typical work time

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

Step 5 / 5

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

CAUTION !



XP-640 Scan Motor Replacement

XP-640 Scan Motor Replacement Procedure

Step 1 / 45

Remove the covers and disconnect the connector on the side cover. *The image is ER-642.



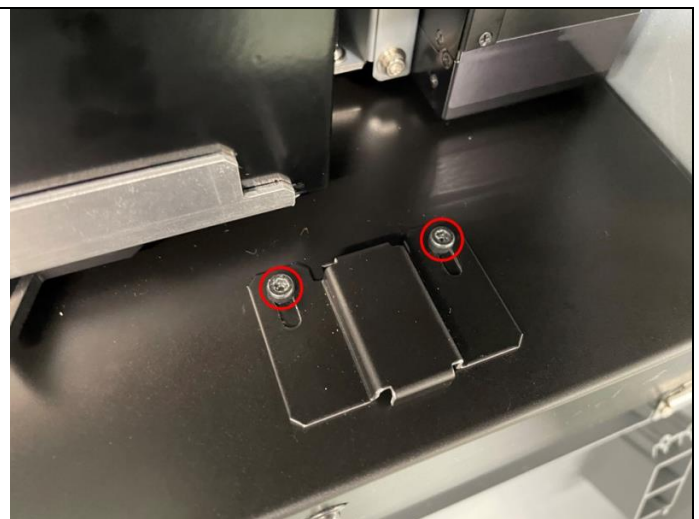
Step 2 / 45

Detail1: Video: removing covers *The machine in this video is ER-642.



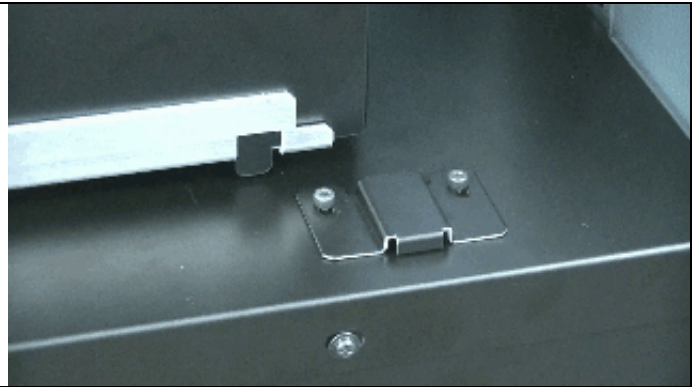
Step 3 / 45

Remove the cap up/down gear cover.



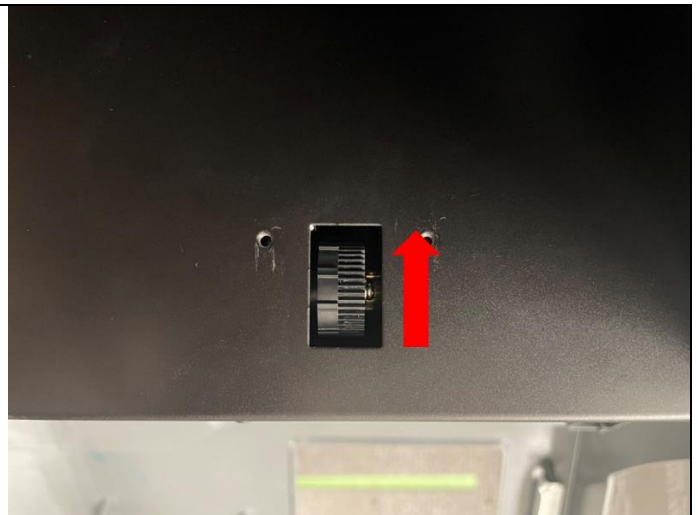
Step 4 / 45

Detail 1: Video: removing the gear cover



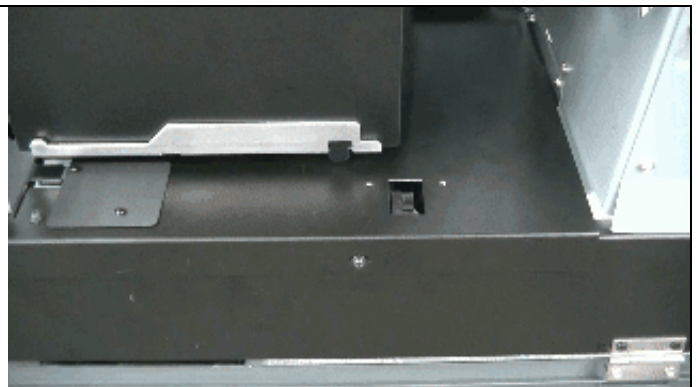
Step 5 / 45

Turn the gear backward 5 times to lower the cap and then move the carriage slightly to the left.



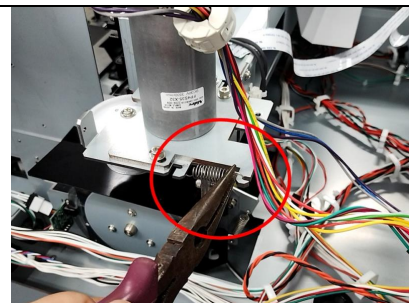
Step 6 / 45

Detail 1: Video: lowering the gear



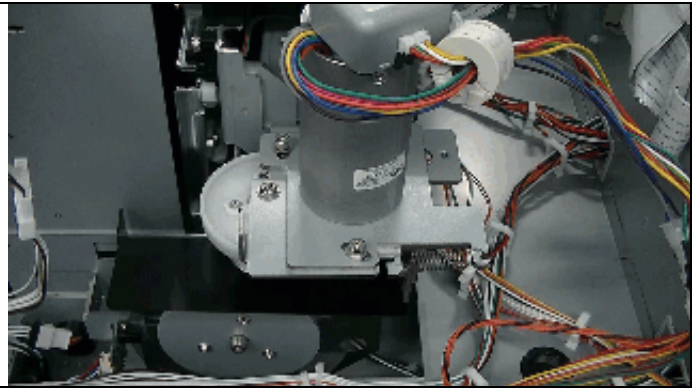
Step 7 / 45

Remove the spring.



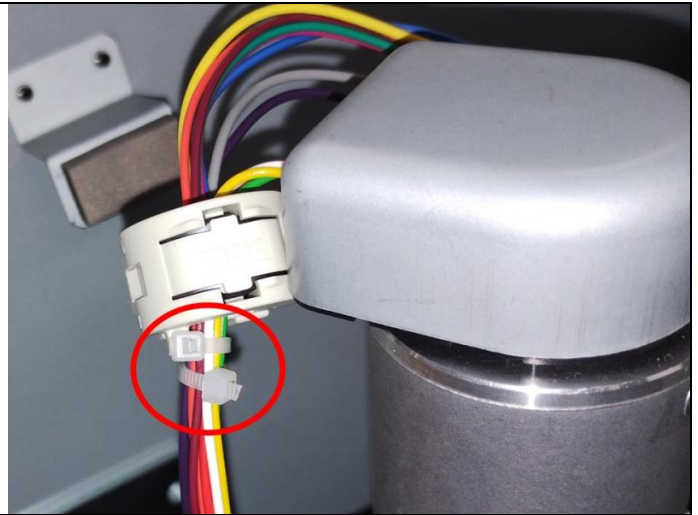
Step 8 / 45

Detail 1: Video: removing spring



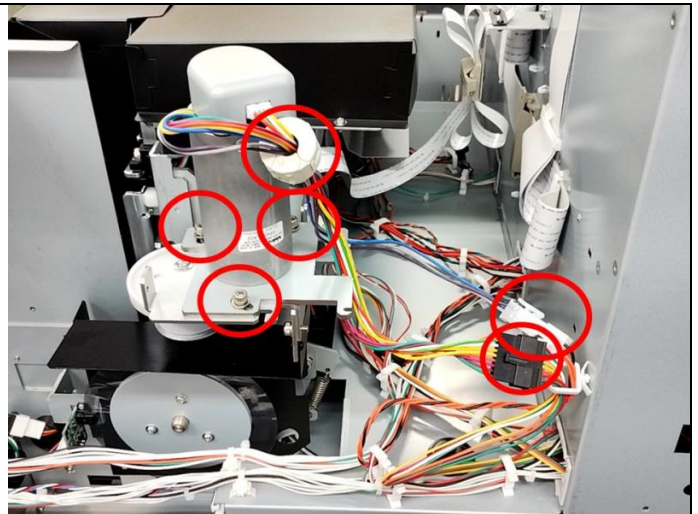
Step 9 / 45

Remove the cable ties securing the ferrite core.



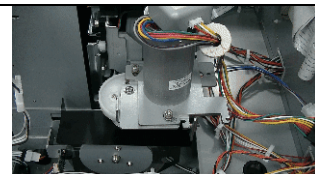
Step 10 / 45

After removing the screws, connectors and ferrite core, remove the motor together with the flange.



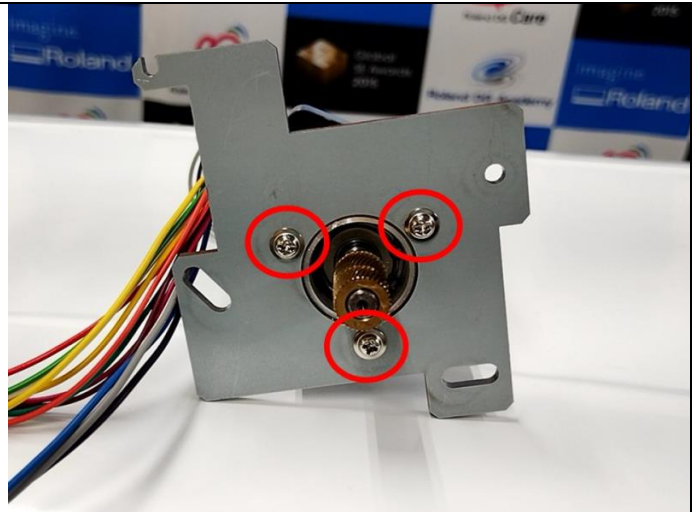
Step 11 / 45

Detail 1: Video: removing motor



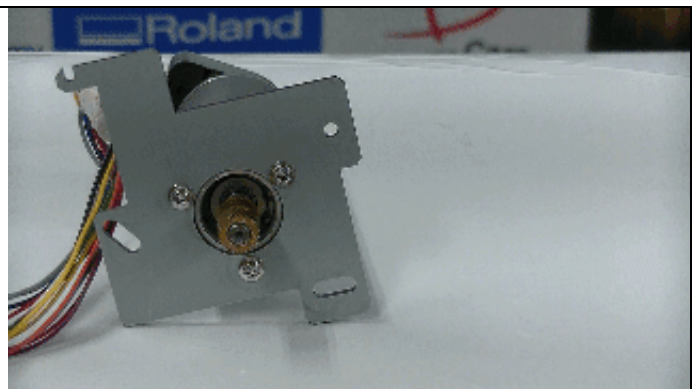
Step 12 / 45

Remove the motor from the flange after removing the screws.



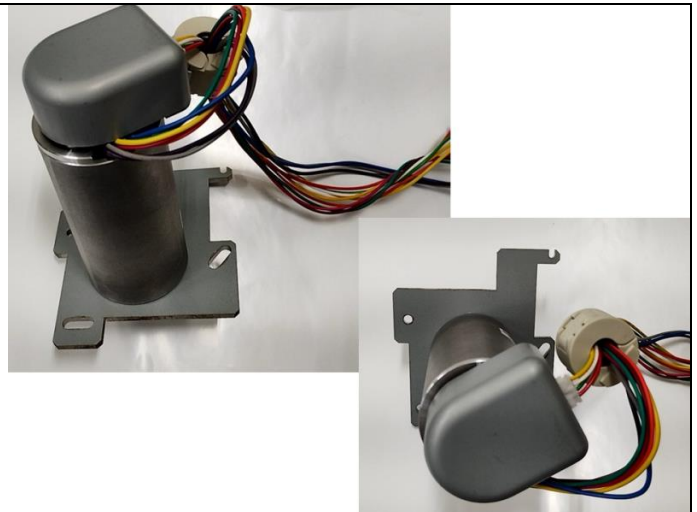
Step 13 / 45

Detail 1: Video: removing motor from flange



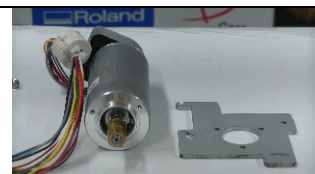
Step 14 / 45

Pay attention to the orientation of the motor and flange when you attach the motor and flange.



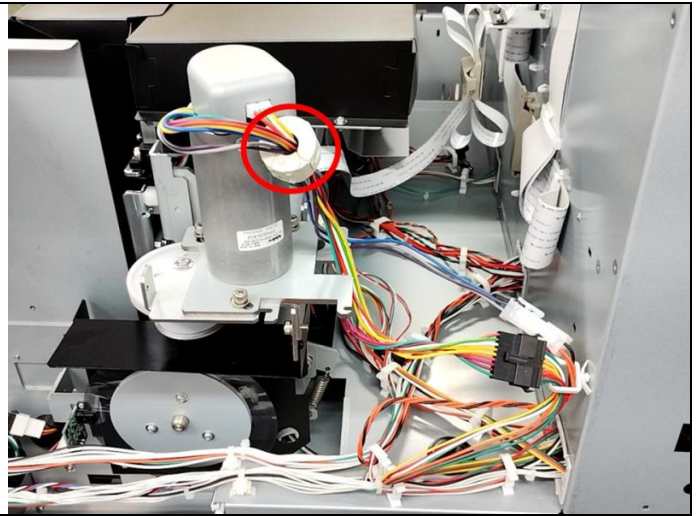
Step 15 / 45

Detail 1: Mounting the flange.



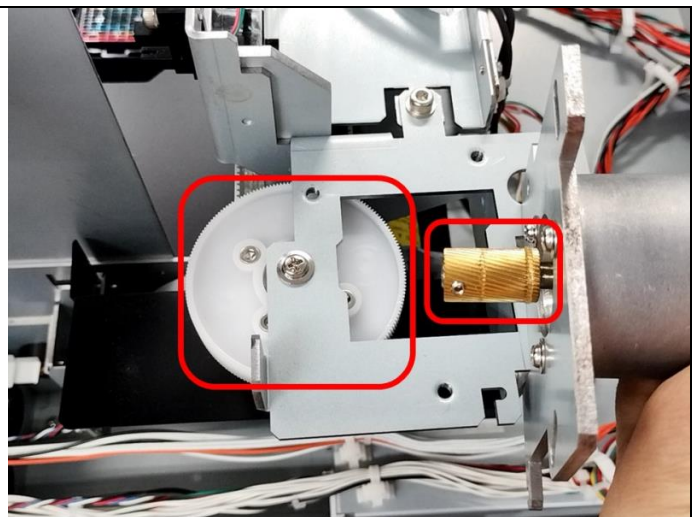
Step 16 / 45

Do not forget to install the ferrite core that was attached to the old motor.



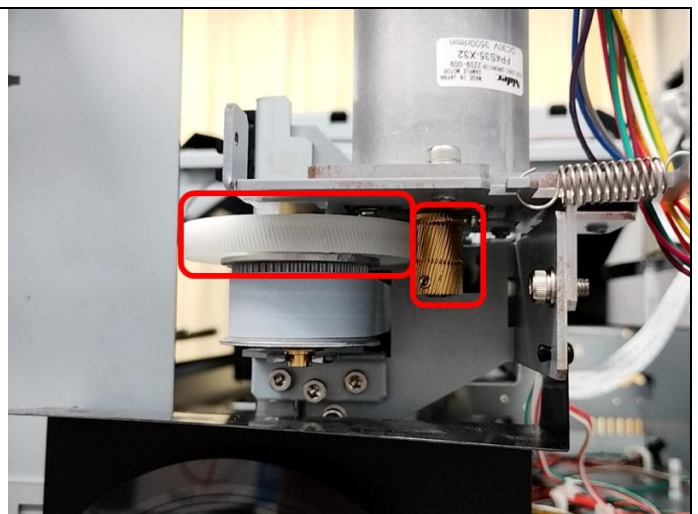
Step 17 / 45

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



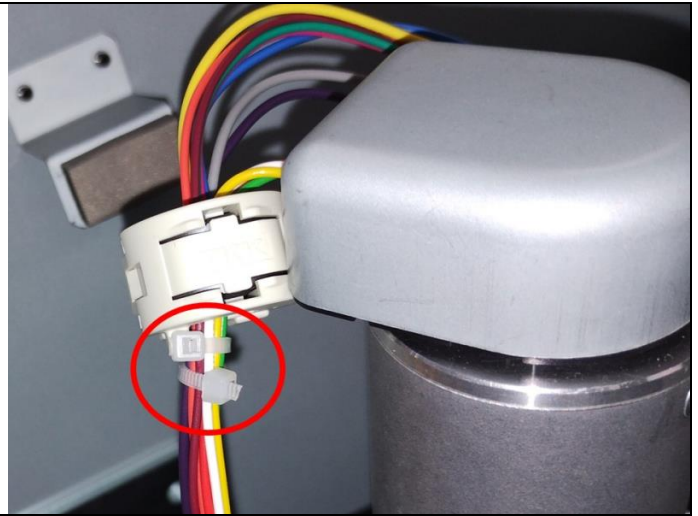
Step 18 / 45

Detail 1: Side of motor



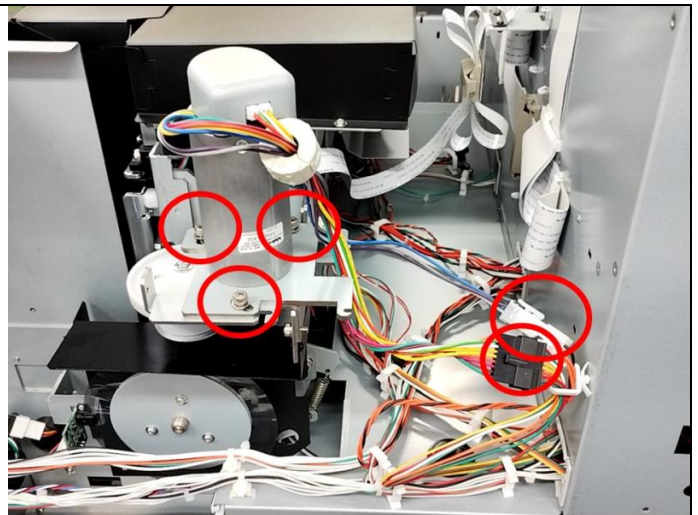
Step 19 / 45

Attach the cable ties to the ferrite core.



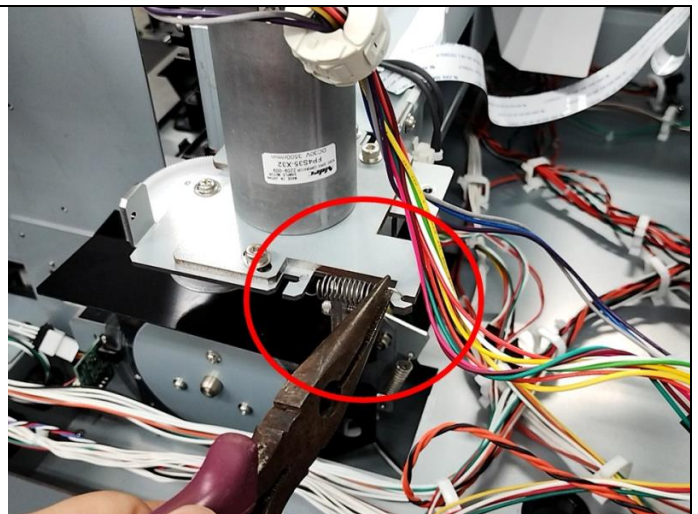
Step 20 / 45

Connect the motor connectors and temporarily tighten the flange.



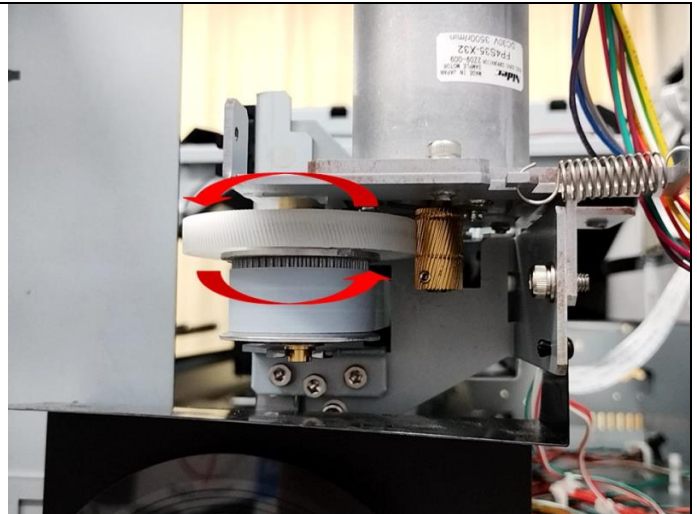
Step 21 / 45

Attach the spring.



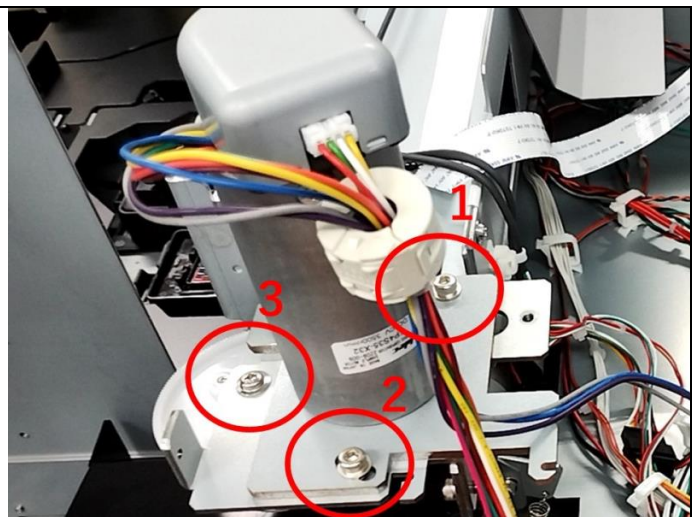
Step 22 / 45

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



Step 23 / 45

Tighten the flange screws in order shown in the figure.



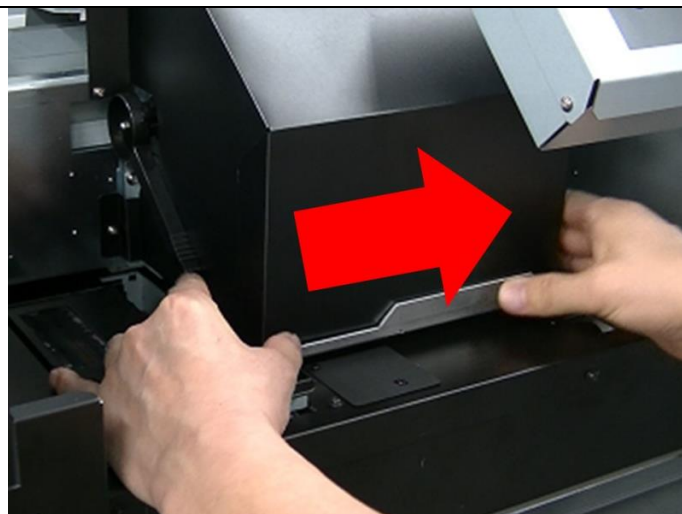
Step 24 / 45

Attach the connector and attach the side covers.



Step 25 / 45

If the carriage is not locked, the servo lock check cannot be performed after this. Make sure to lock the carriage securely.



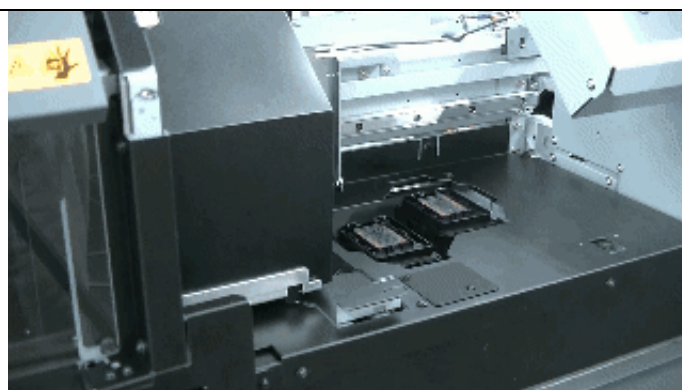
Step 26 / 45

Lock the carriage.



Step 27 / 45

Detail 1: Video: locking the carriage



Step 28 / 45

Turn on the power and enter the service



mode with Peck2.



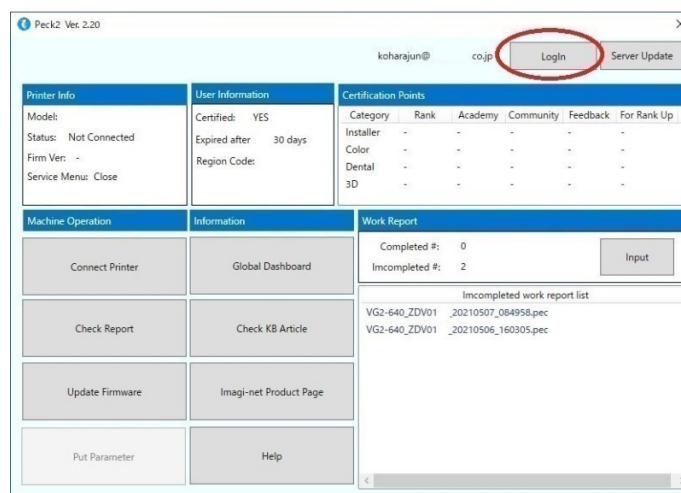
Step 29 / 45

Detail 1: Start Peck2.



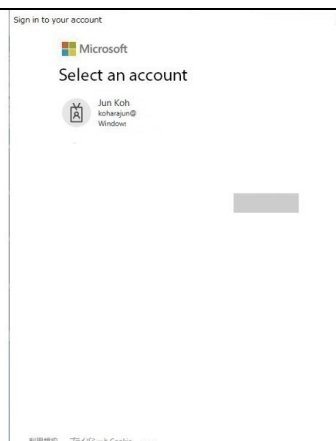
Step 30 / 45

Detail 2: Click on the [Login] button.



Step 31 / 45

Detail 3: Login with your Imagi-net ID.



Step 32 / 45

Detail 4: Click on 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	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 33 / 45

Detail 5: Enter the IP address of the printer you want to connect to.

Peck2 Ver. 2.20

koharjun@ .co.jp Login Server Update

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

Machine Operation	Information	Work Report
Connect Printer	Global Dashboard	Completed #: 0
Check Report	Check KB Article	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 34 / 45

Detail 6: When the printer is connected, printer information will be displayed in [Printer Info].

Peck2 Ver. 2.20

koharjun@ .co.jp Login Server Update

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

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

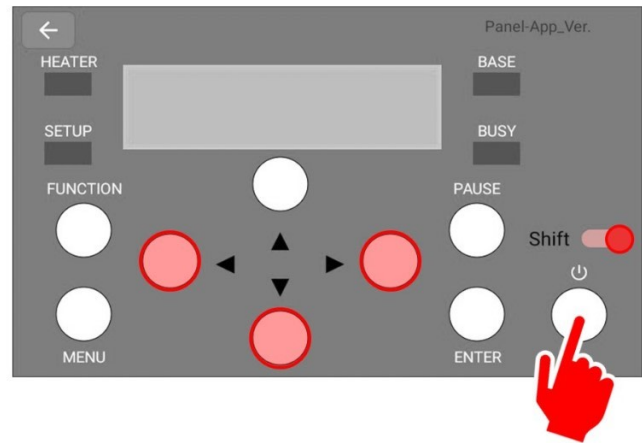
Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

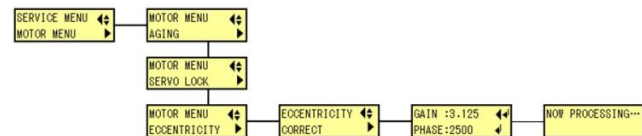
Step 35 / 45

Detail 7: Press [Shift]> [□]+[□]+[□]+[Sub Power] to enter the service mode.



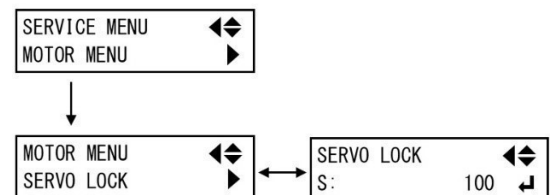
Step 36 / 45

Press [ENTER] in the menu [MOTOR MENU] > [ECCENTRICITY] > [CORRECT] to correct the eccentricity of the scan motor. The eccentricity will be updated automatically after the work is completed.



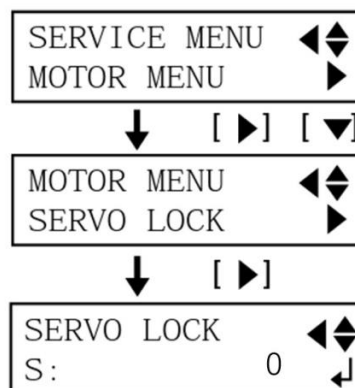
Step 37 / 45

Check the servo lock.



Step 38 / 45

Detail 1: Select [MOTOR MENU] > [SERVO LOCK].



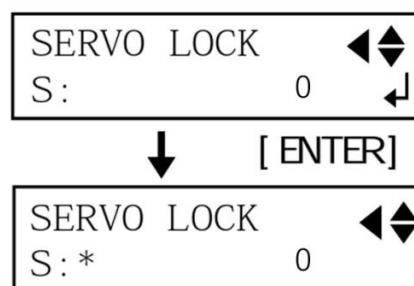
Step 39 / 45

Detail 2: Lower the cap up/down gear and move the print head carriage left and right by hand to confirm that the displayed value changes with the movement. *The machine in this video is ER-642.



Step 40 / 45

Detail 3: Press [ENTER] in the [MOTOR MENU] > [SERVO LOCK] menu to display [*].



Step 41 / 45

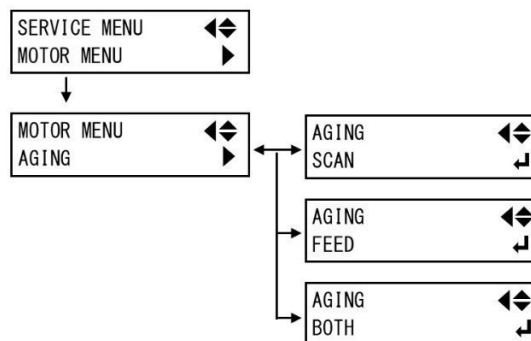


Detail 4: Confirm that the print head carriage does not move easily when trying to move it by hand and that the displayed value returns to the original value. *The machine in this video is ER-642.



Step 42 / 45

Perform aging check under [AGING] > [SCAN].



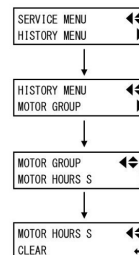
Step 43 / 45

Detail 1: Video: How to perform aging
*The machine in this video is ER-642.



Step 44 / 45

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



Step 45 / 45

Install the gear cover.



XP-640 Encoder Scale Replacement

XP-640 Encoder Scale Replacement Information

Step 1 / 4

General Tools

一般ツール/General Tool

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



Step 2 / 4

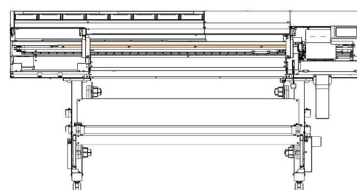
Typical work time

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.
リニアエンコーダー位置設定 Linear encoder setup	5 min.

Step 3 / 4

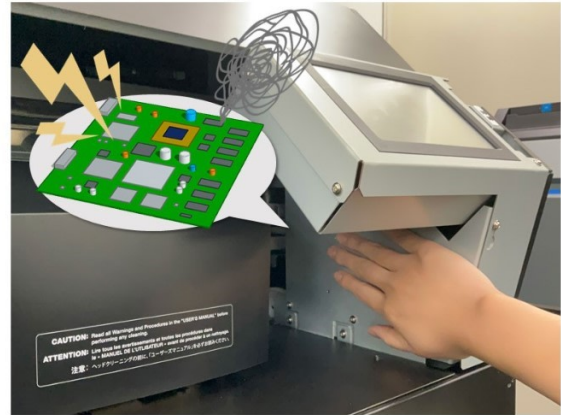
Encoder scale



Step 4 / 4

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

CAUTION !



XP-640 Encoder Scale Replacement

XP-640 Encoder Scale Replacement Procedure

Step 1 / 21

Open the left, right and the center cover.



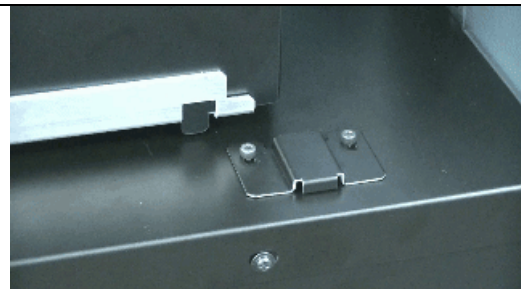
Step 2 / 21

Remove the cap UP/DOWN gear cover.



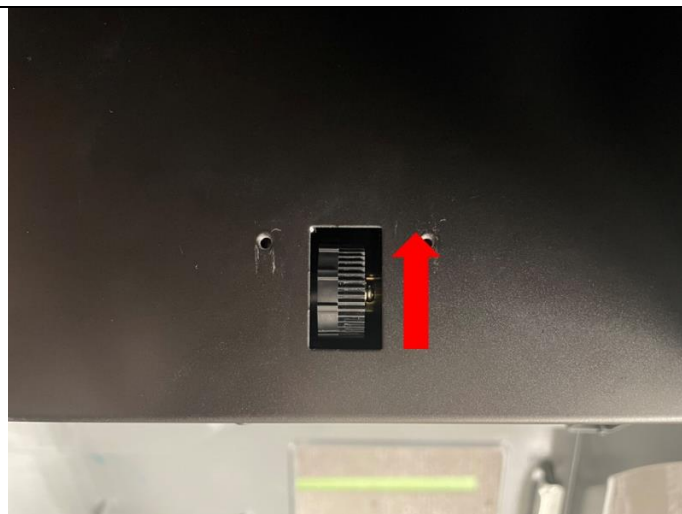
Step 3 / 21

Detail 1: Removing gear cover



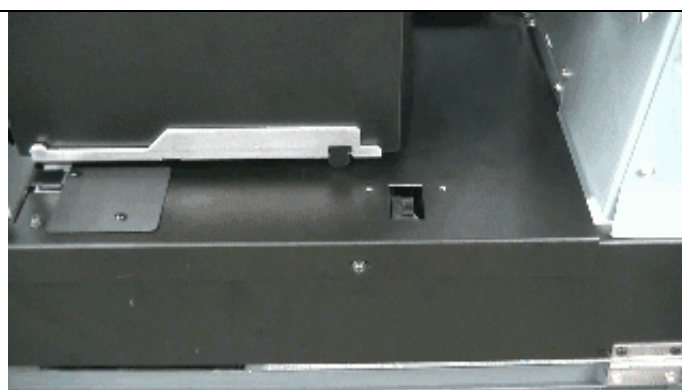
Step 4 / 21

Turn the cap UP/DOWN gear backward to lower the cap and then move the carriage slightly to the left.



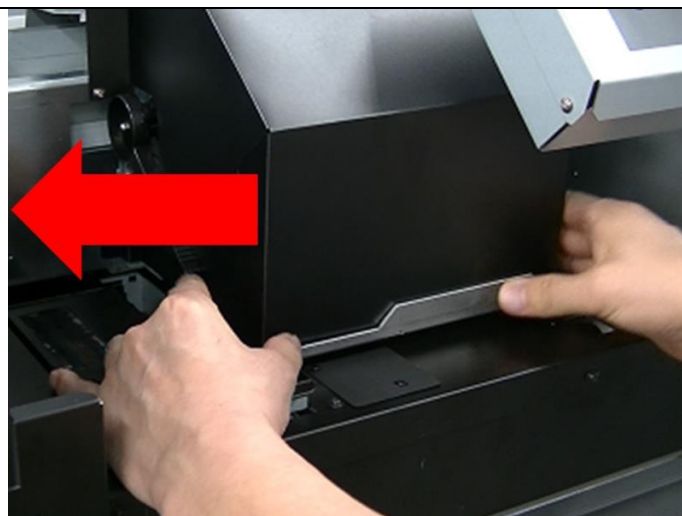
Step 5 / 21

Detail 1: Video: Lowering cap UP/DOWN gear



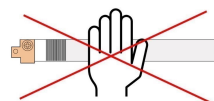
Step 6 / 21

Move the print head carriage to the top of the bed.



Step 7 / 21

Be careful not to touch, scratch or stain



the encoder scale surface during installation.



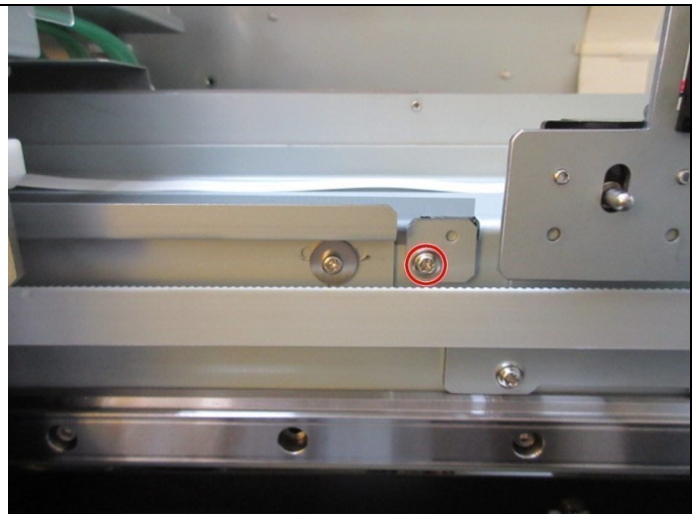
Step 8 / 21

Remove the left side spring.



Step 9 / 21

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



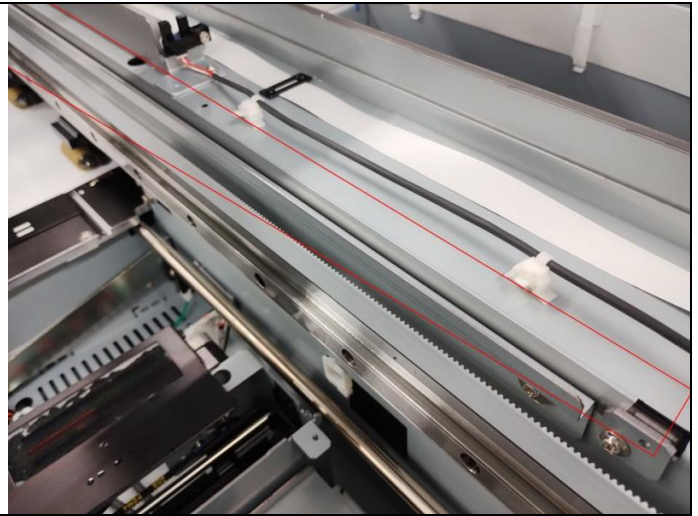
Step 10 / 21

The spring is attached to the notched side.



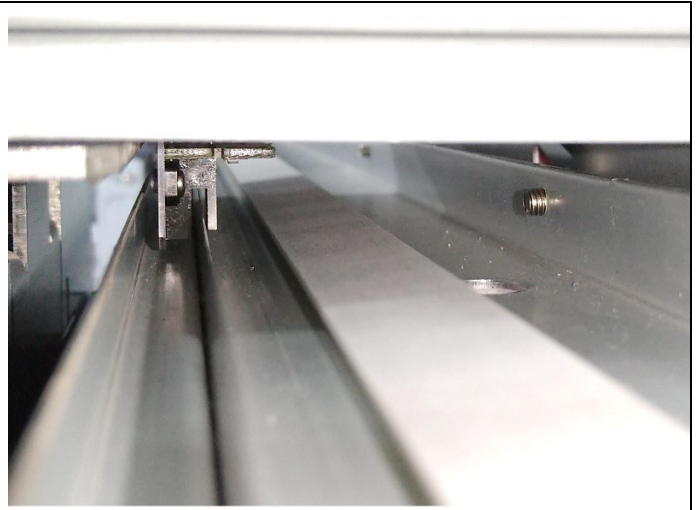
Step 11 / 21

Install the encoder scale.



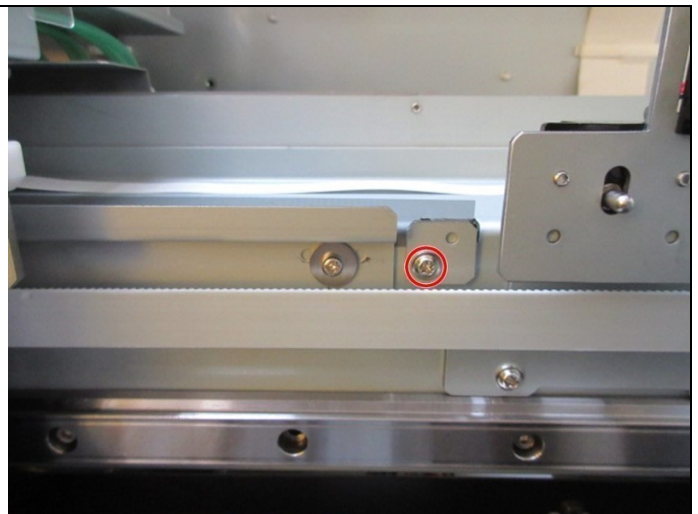
Step 12 / 21

Detail 1: Insert the encoder scale into the gap between the encoder plate and the guide rail.



Step 13 / 21

Detail 2: Temporarily fasten the right side of the encoder with the plate.



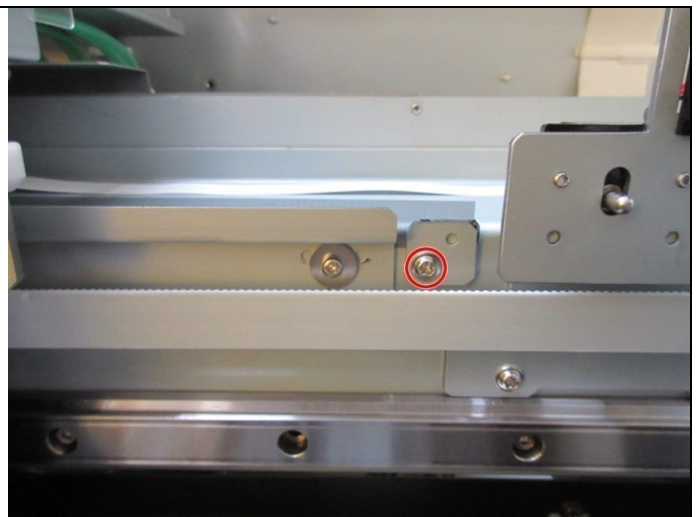
Step 14 / 21

Detail 3: Attach the spring on the left side of the encoder.



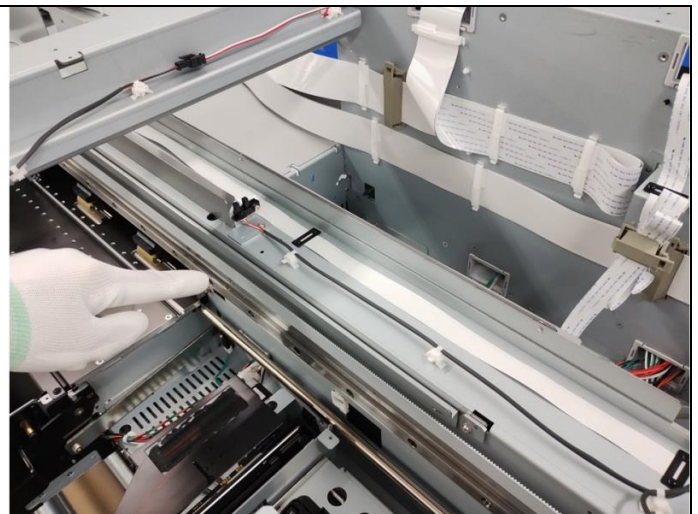
Step 15 / 21

Detail 4: Retighten the screw on the right side.



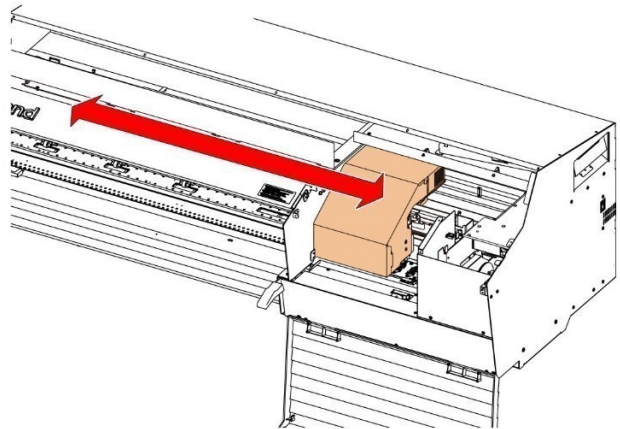
Step 16 / 21

Check visually if the encoder scale is in place.



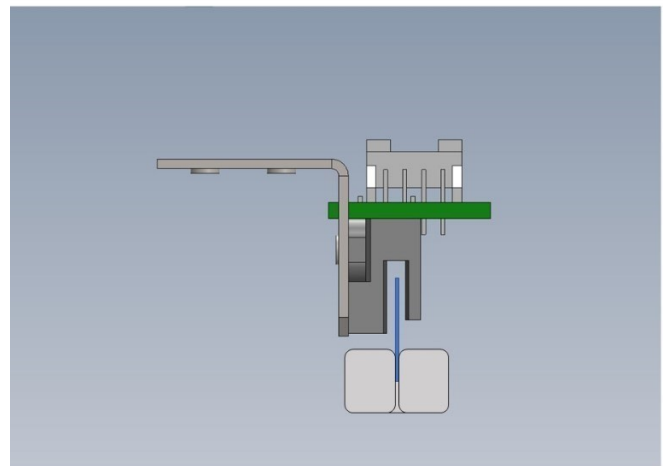
Step 17 / 21

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



Step 18 / 21

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



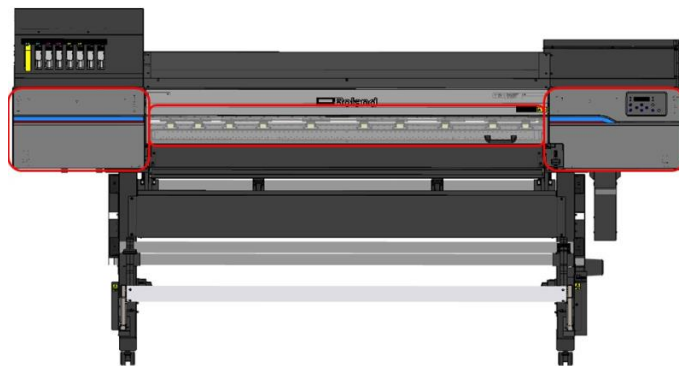
Step 19 / 21

Lock the print head carriage.



Step 20 / 21

Close all open covers.



Step 21 / 21

Next step [Linear Encoder Setup].



次の手順

リニアエンコーダー位置設定

Next Step

Linear encoder position setting

XP-640 Carriage Belt Replacement

XP-640 Carriage Belt Replacement

Information

Step 1 / 5

General Tools

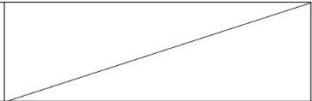
一般ツール/General Tool

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

Step 2 / 5

Special Tools

特殊治具/Special Tools

None	
------	---

Step 3 / 5

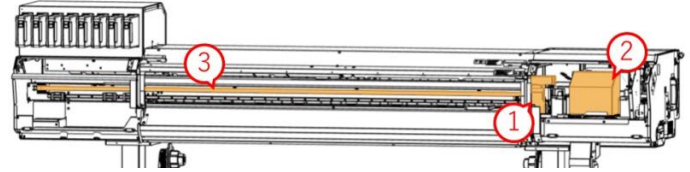
Typical work time

作業時間/Typical work time

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

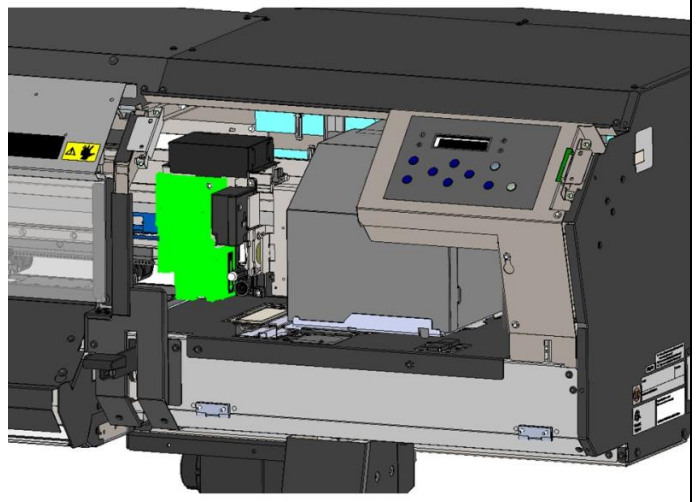
Step 4 / 5

1. Cut carriage
2. Print head carriage
3. Carriage belt



Step 5 / 5

Covers that need to be removed *The image is ER-642.

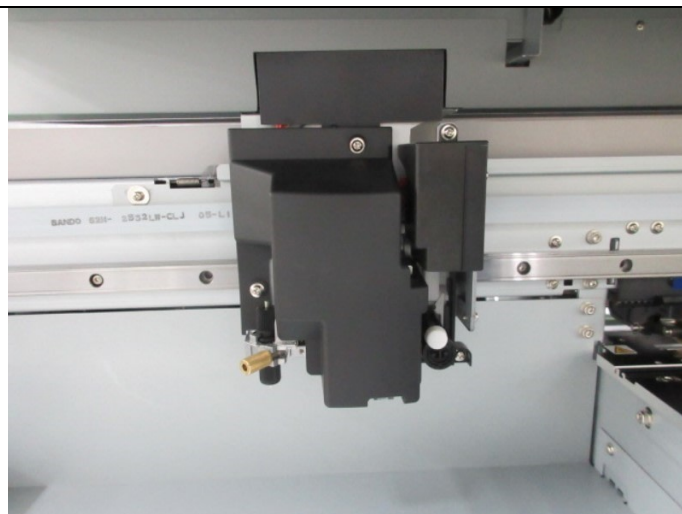


XP-640 Carriage Belt Replacement

XP-640 Carriage Belt Replacement Procedure

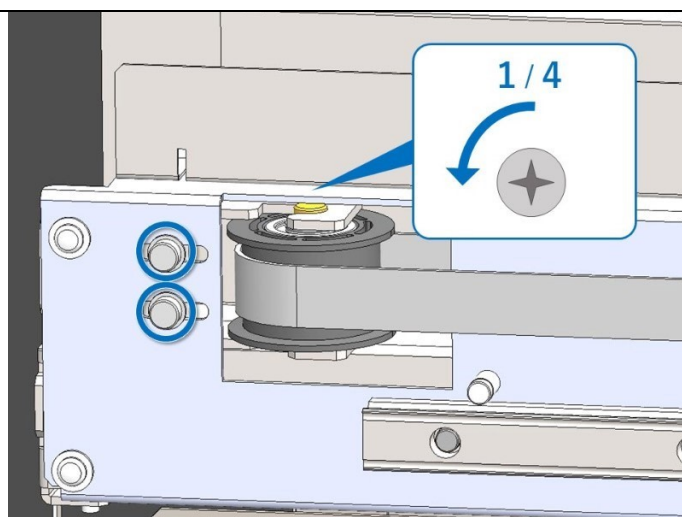
Step 1 / 19

Move the cut carriage to the position at maintenance cover L.



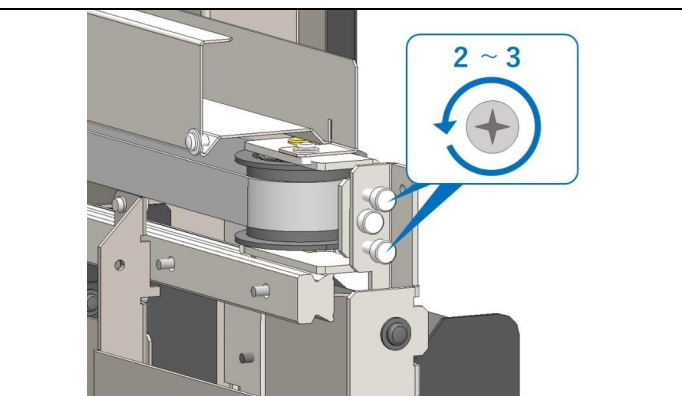
Step 2 / 19

Loosen the fixing screws at the left end of the belt on idle pulley side about 1/4 turn.



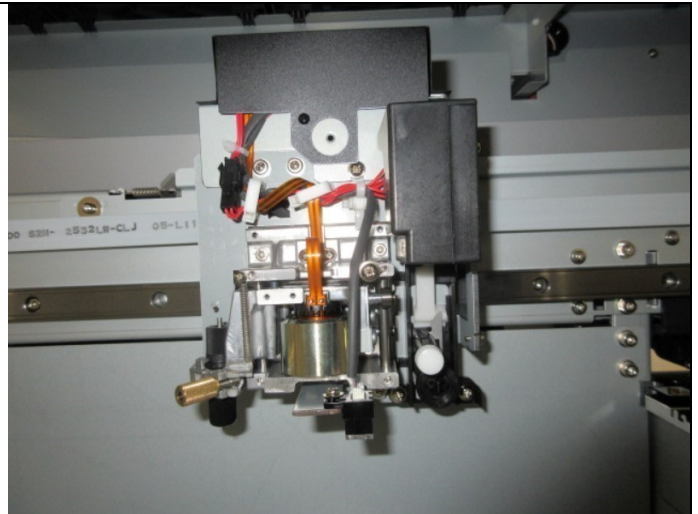
Step 3 / 19

Loosen the adjustment screw about 2 to 3 turns.



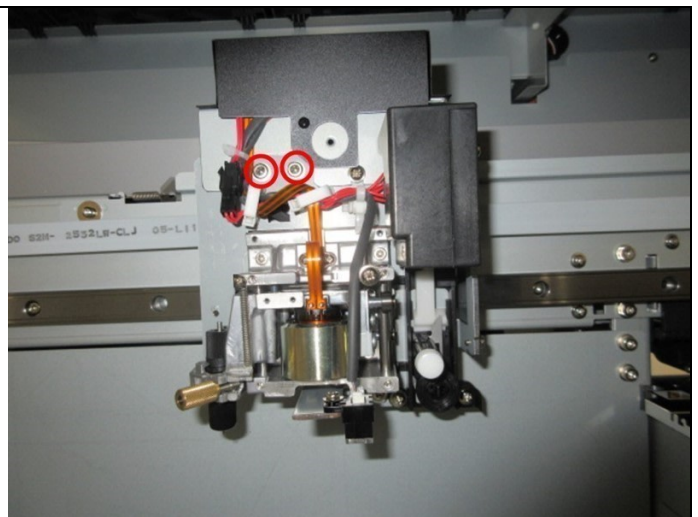
Step 4 / 19

Remove the cut carriage cover.



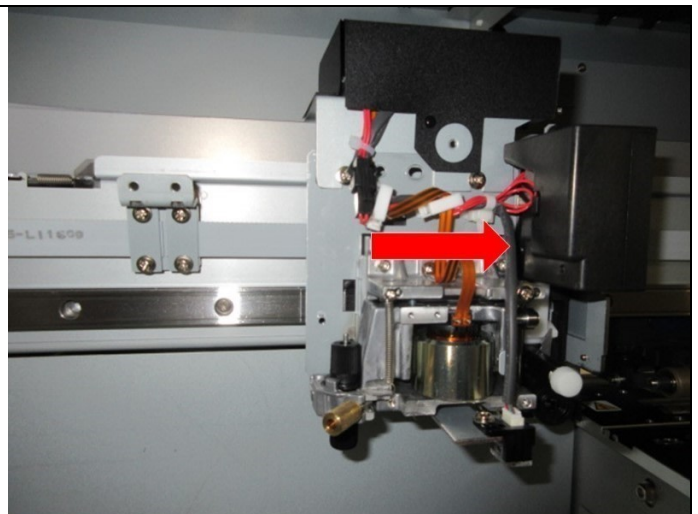
Step 5 / 19

Remove the two screws.



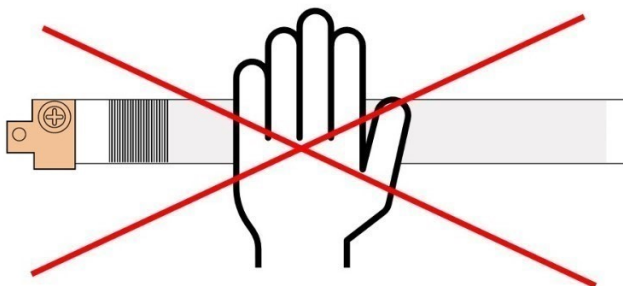
Step 6 / 19

Slide the cut carriage to the right.



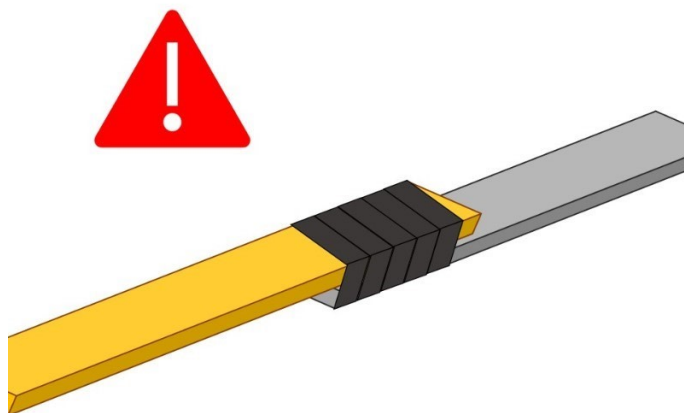
Step 7 / 19

When removing the carriage belt, do not touch the encoder scale. If grease coated on the belt adheres to the encoder scale, printing defects may occur.



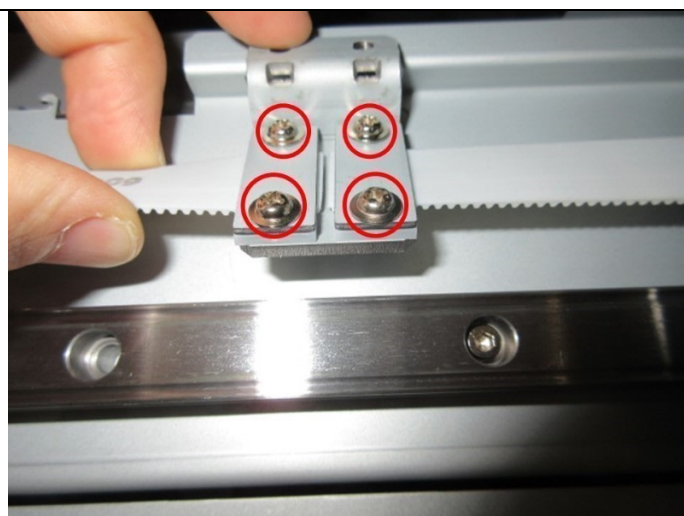
Step 8 / 19

When replacing the carriage belt, be sure to put the new belt on the old belt, and then remove the old belt and put the new belt through at the same time. (If the belt is not replaced in this manner, the new belt may not be attached.)



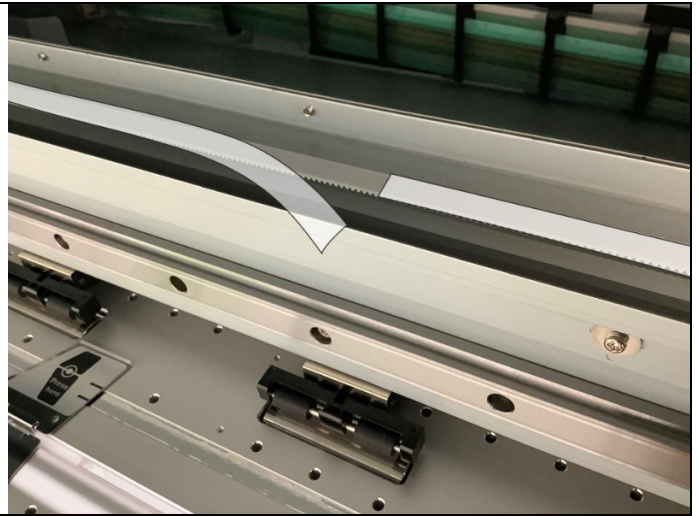
Step 9 / 19

Remove the carriage belt.



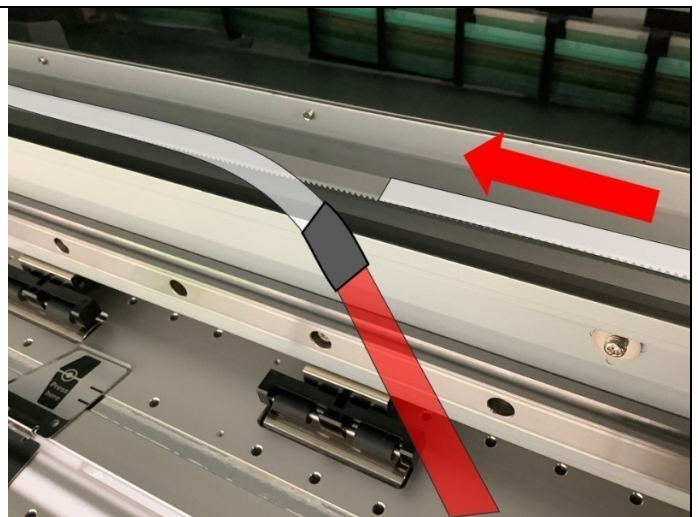
Step 10 / 19

Remove the carriage belt from the stay.



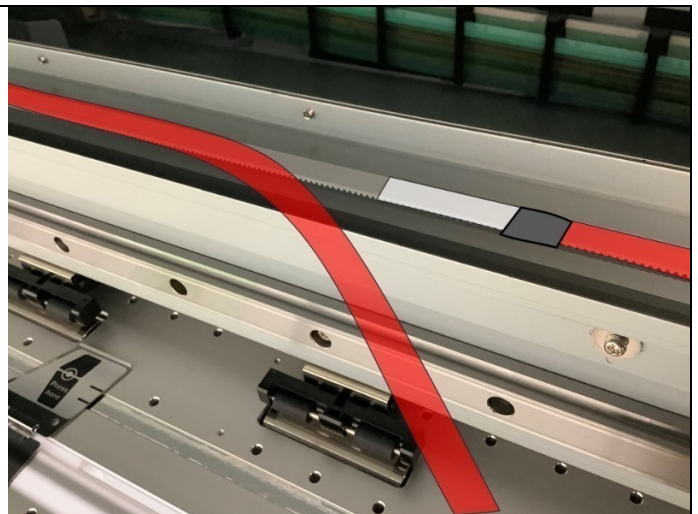
Step 11 / 19

Tape the new carriage belt to one side of the old belt.



Step 12 / 19

Pull the new carriage belt until it reaches the belt on the unconnected side. Remove the tape after the belt has completed one lap.



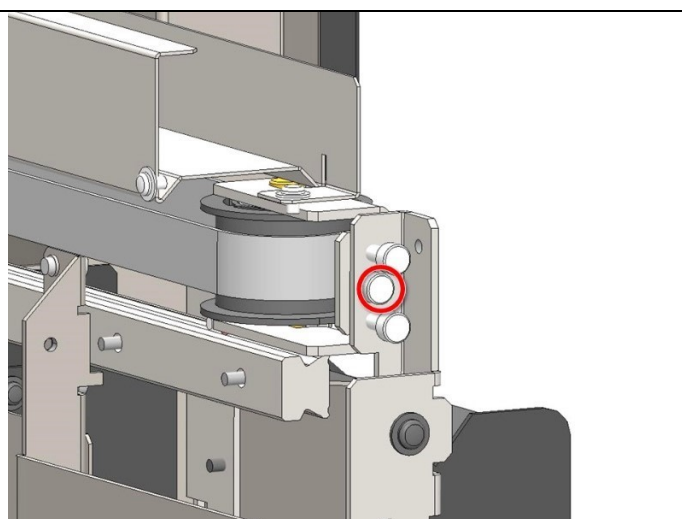
Step 13 / 19

Attach both ends of the carriage belt with the resin and metal plates and the belt holder with the screws.



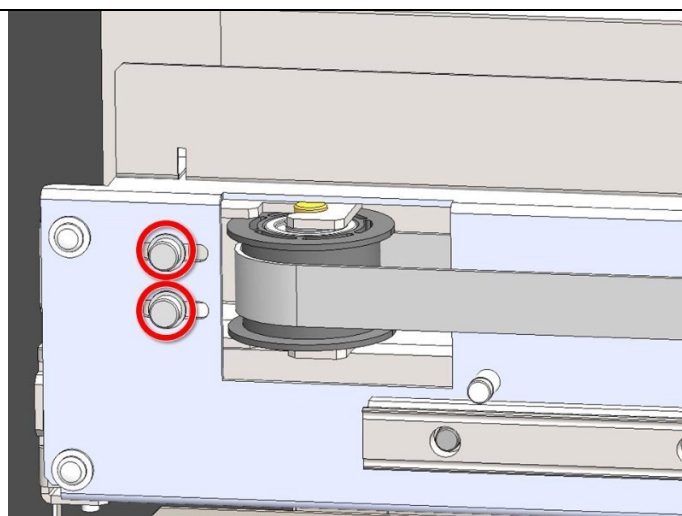
Step 14 / 19

Tighten the adjustment screws to eliminate belt looseness. Do not over-tighten the screws.



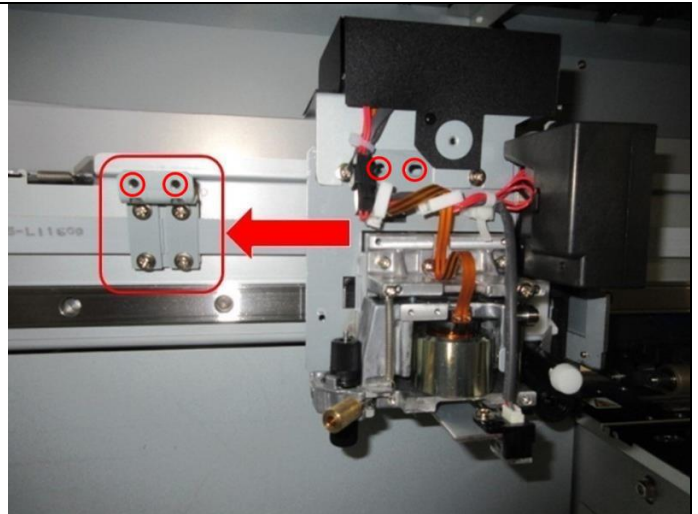
Step 15 / 19

Tighten the fixing screws on the idle pulley side.



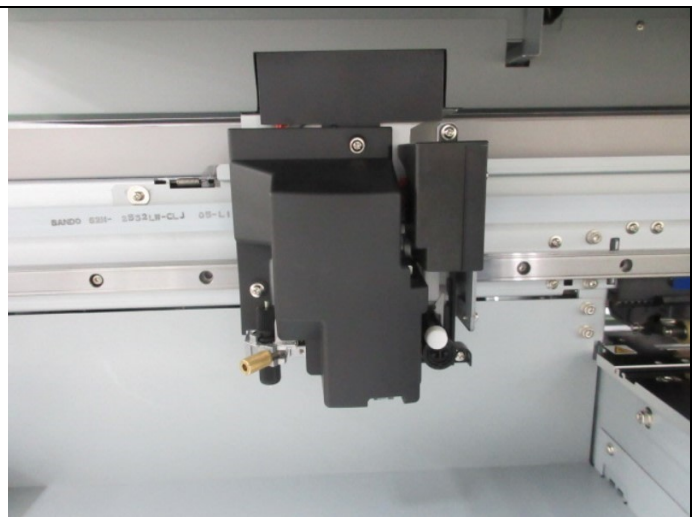
Step 16 / 19

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



Step 17 / 19

Attach the cut carriage cover.



Step 18 / 19

Move the cut carriage across the entire area several times to eliminate slack in the carriage belt.



Step 19 / 19

Perform belt tension adjustment, belt position adjustment, limit position initialization and cut quality check.



次の手順

ベルトテンション調整
ベルト位置調整
リミット位置設定
カット品質チェック

Next Step

belt tension adjustment
Belt Position Adjustment
limit position initialization
Cut quality check

XP-640 Multi Sensor Replacement

XP-640 Multi Sensor Replacement

Information

Step 1 / 4

Tools required for replacement (1)

一般ツール/General Tool

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

Step 2 / 4

Tools required for replacement (2)

一般ツール/General Tool

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

Step 3 / 4

Typical Work Time

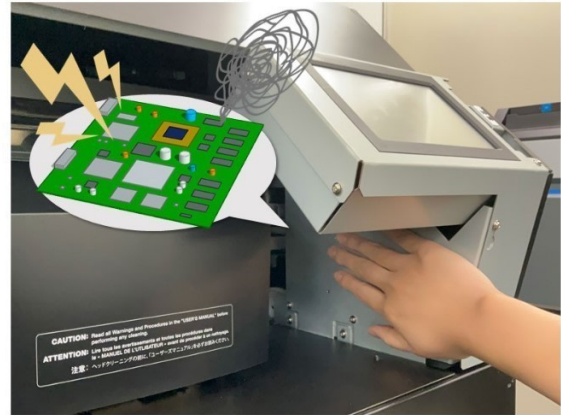
作業時間/Typical work time

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

Step 4 / 4

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

CAUTION !



XP-640 Multi Sensor Replacement

XP-640 Multi Sensor Replacement Procedure

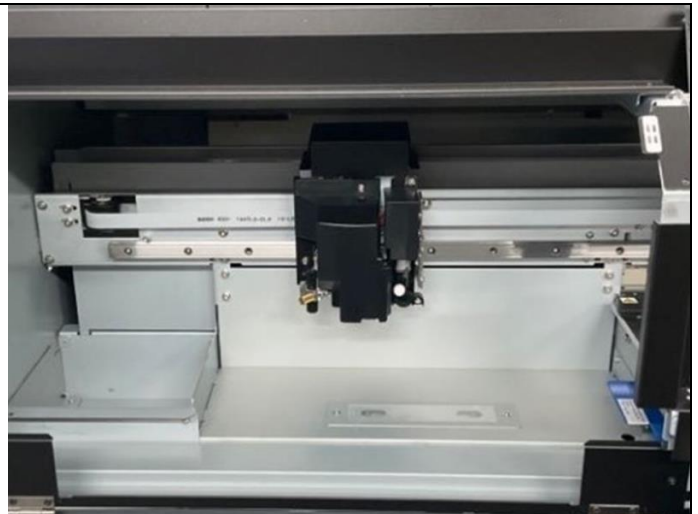
Step 1 / 18

Turn off the power and unplug the power cable.



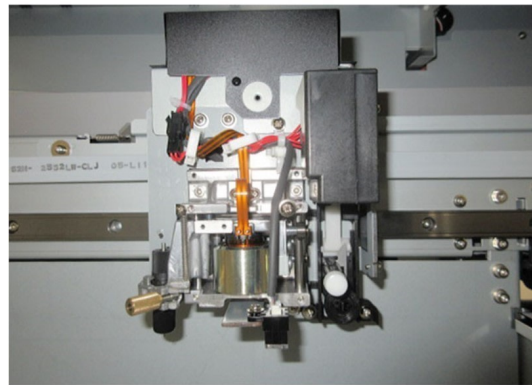
Step 2 / 18

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



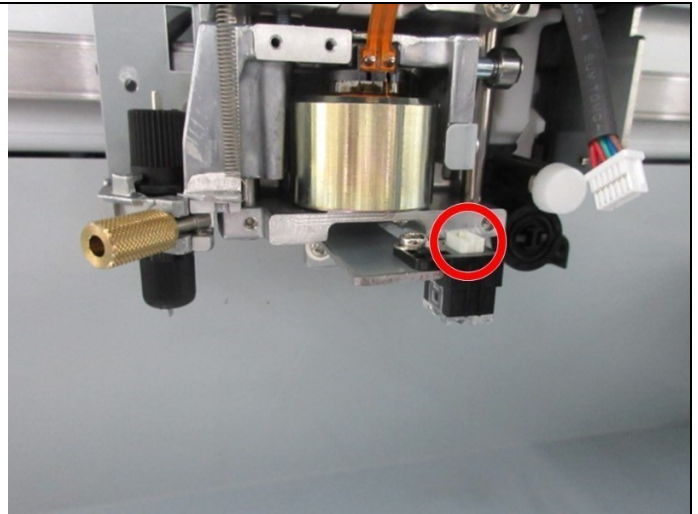
Step 3 / 18

Remove the cut carriage cover.



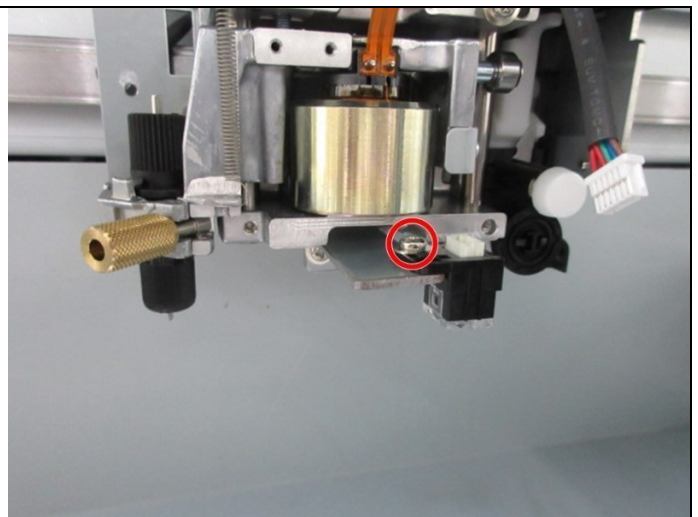
Step 4 / 18

Disconnect the connector.



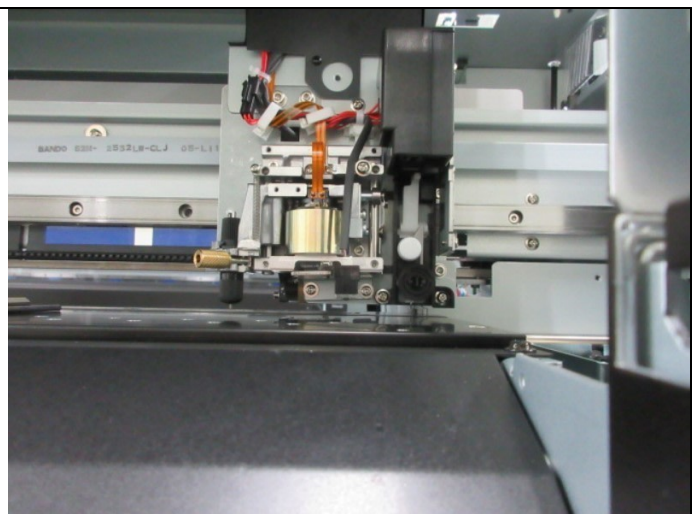
Step 5 / 18

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



Step 6 / 18

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



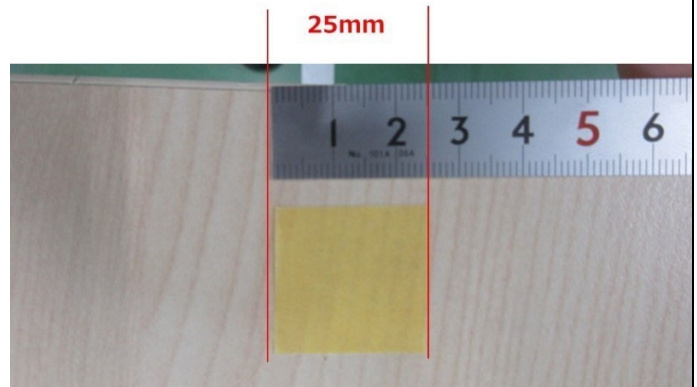
Step 7 / 18

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



Step 8 / 18

Detail 1: Cut the masking tape to about 25 mm. Note that if the masking tape is too long, the thickness of the tape will change the target value.



Step 9 / 18

Detail 2: Line up the hexagonal wrenches and stick the masking tape on the 5.0 mm hexagonal wrench.



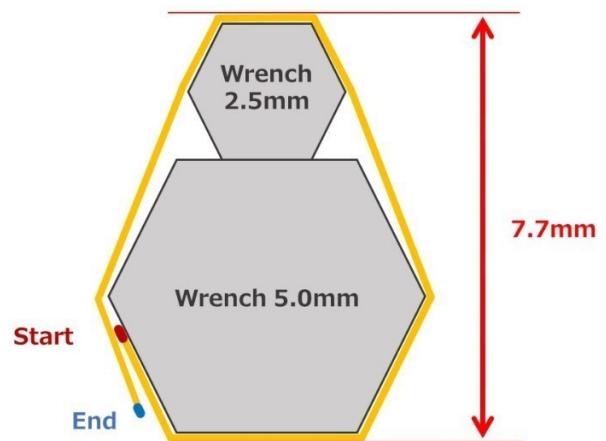
Step 10 / 18

Detail 3: Wrap the masking tape around the hexagonal wrenches while placing them against each other.



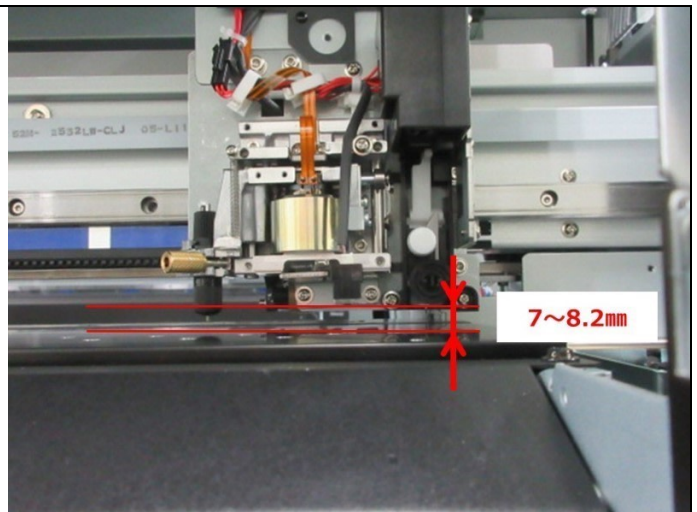
Step 11 / 18

Detail 4: Reference



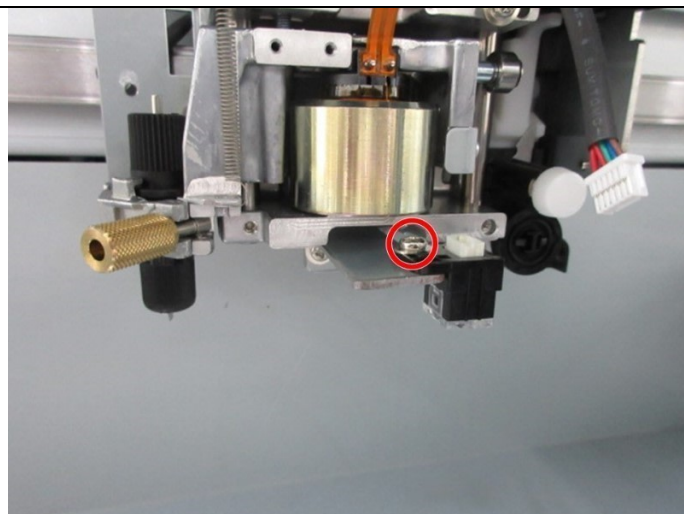
Step 12 / 18

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



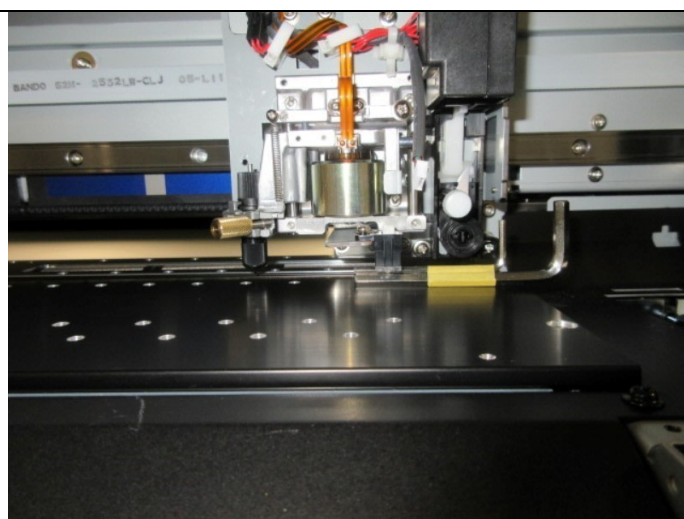
Step 13 / 18

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



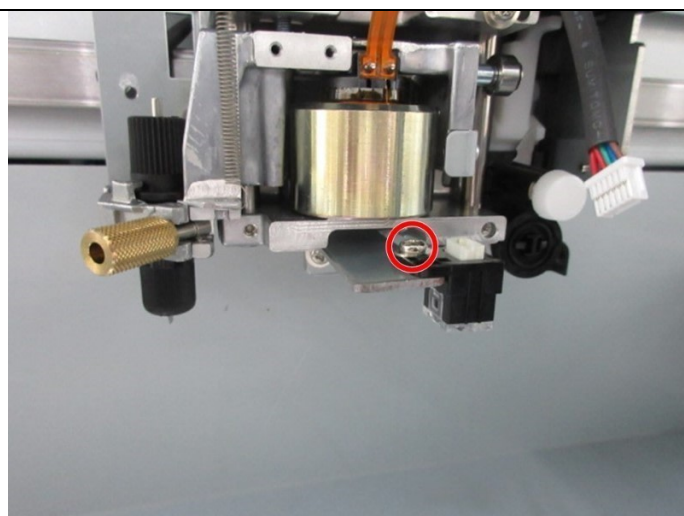
Step 14 / 18

To allow the sensor to be mounted parallel to the platen, place the jig horizontally on the sensor's lower side, towards the back of the sensor. Place the jig on the flat part of the sensor, not on the convex part.



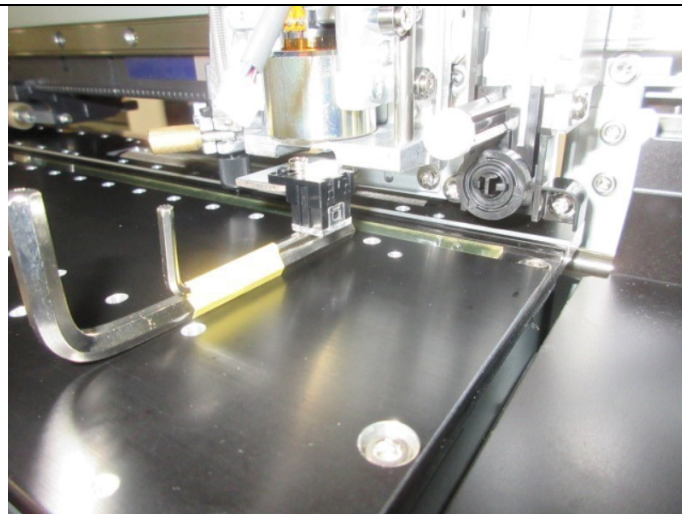
Step 15 / 18

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



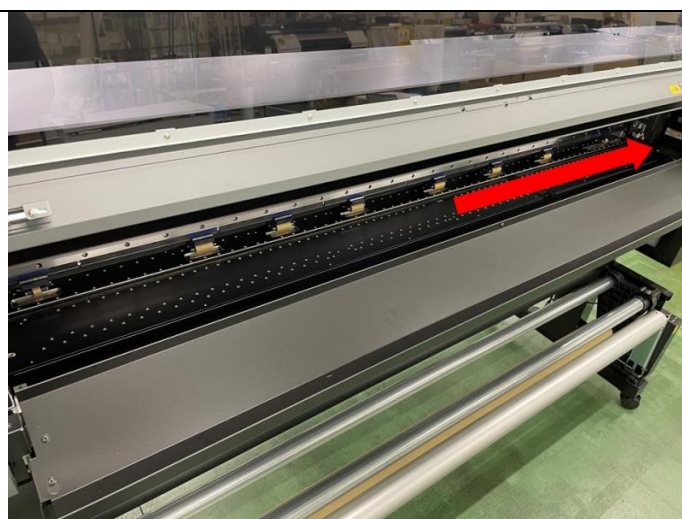
Step 16 / 18

Place the jig on the left and right sides of the sensor and check that it is installed horizontally to the bed.



Step 17 / 18

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



Step 18 / 18

Perform multi sensor adjustment.



次の手順

マルチセンサー調整

Next Step

Multi Sensor Adjustment

XP-640 Print Head Alignment

XP-640 Print Head Alignment Information

Step 1 / 4

XP-640 adjusts print head position adjustments (BIAS/VERTICAL, M-GAP, HORIZONTAL) at the center of the table. Therefore, these adjustments require the media to be centered to print. Since the print head position adjustment requires the heater to be on, the heater is automatically turned on for these adjustments."

Step 2 / 4

General Tools

一般ツール/General Tool

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

Step 3 / 4

Special Tools

特殊治具/Special Tools

ST-056 TORQUE DRIVER N6	
BIT, PHILLIPS NO.2 L200MM	
MEDIA, PET2-G 5SHEET SET 320MM ST-129	

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	36 min.

XP-640 Print Head Alignment

XP-640 Print Head Alignment Procedure

Step 1 / 29

Start Peck2.

Peck2 Ver. 2.8.0

koharajun@rolanddg.co.jp

Login

Server Update

Printer Info

Model: ER-642_KFT0000

Status: Primary power on

Firm Ver: 0.86

Service Menu: Open

User Information

Certified: YES

Expired after: 23 days

Certification Points

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

Machine Operation

Connect Printer

Check Report

Update Firmware

Put Parameter

Information

Global Dashboard

Start SV Assist App

Help

Site Links

RDG Connect Page

Imagi-net Product Page

Check KB Article

Work Report

Completed #: 0

Incompleted #: 9

Input

Incompleted work report list

LG-640_KFM0005_20221117_190737.pec

LG-640_KFM0004_20221121_203840.pec

LG-540_KFM0000_20221123_185419.pec

LG-300_KFM0001_20221116_205409.pec

LEC2-3305_ZAA0000_20230509_143345.pec

ER-642_XPD2003_20230309_085629.pec

ER-642_XPD2003_20230113_093429.pec

ER-642_XPD2003_20230110_105537.pec

ER-642_KFT0000_20230516_140720.pec

Step 2 / 29

Start the machine in service mode.



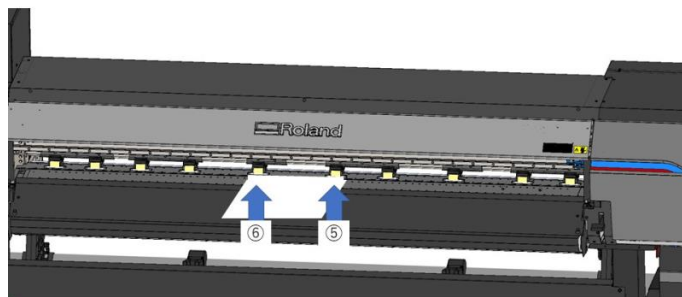
Step 3 / 29

(Caution) Media must be installed in the center. Printing is not possible if the media is not set in the center.



Step 4 / 29

Install PET2-G between the 5th and 6th pinch rollers from the right.



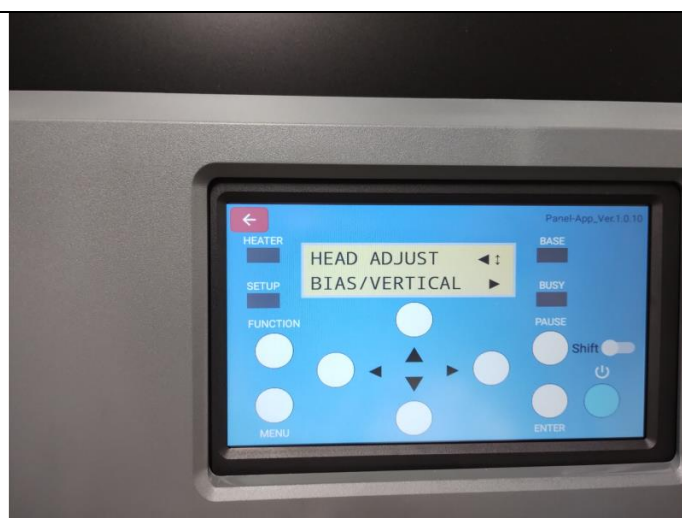
Step 5 / 29

Lower the loading lever and press the [ENTER] key to read the sheet size.



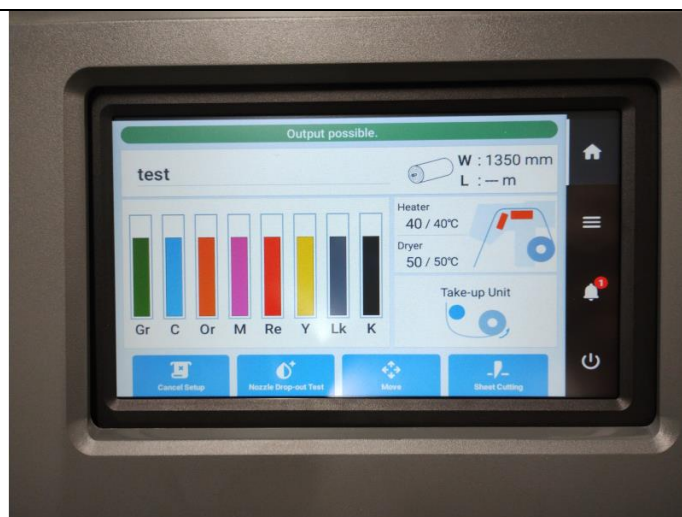
Step 6 / 29

Press [ENTER] under [MENU] > [BIAS/VERTICAL] > [TEST PRINT].



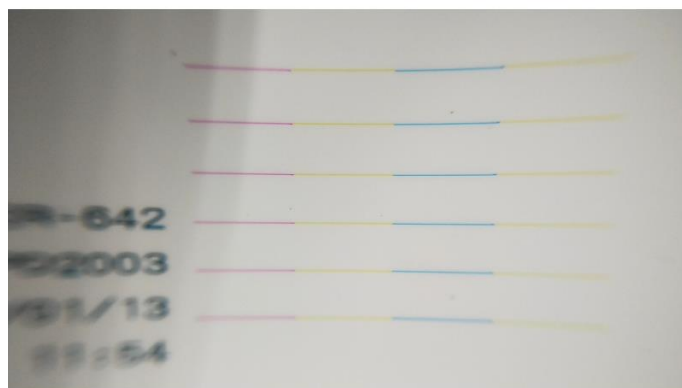
Step 7 / 29

The print heater will start automatically.
Wait until the heater temperature
reaches 40°C. (dryer temperature 50°C)



Step 8 / 29

Check the print result. If the reference
line and the adjustment line are within
0.25 dots off, no adjustment is necessary.
Proceed to M-gap correction. Otherwise,
make adjustments by following the
procedure from the next step.



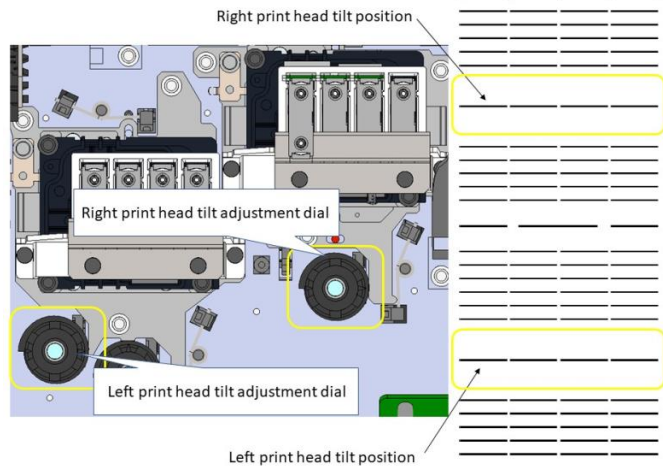
Step 9 / 29

Open the right top cover and carriage
cover.



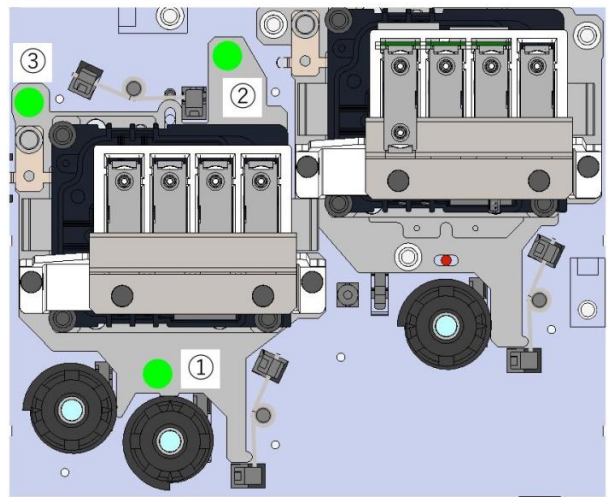
Step 10 / 29

[BIAS adjustment] If the upper part of the test print is Not Good, use the print head tilt adjustment dial on the right side. If the bottom part of the test print is Not Good, use the print head tilt adjustment dial on the left side.



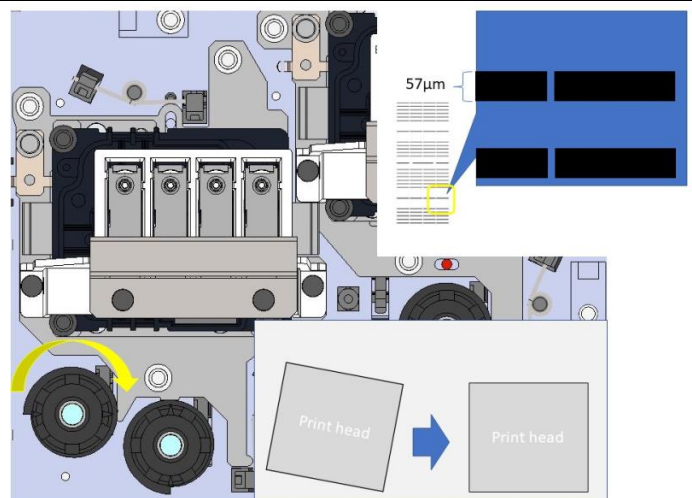
Step 11 / 29

[BIAS adjustment] Loosen the screws one full turn in numerical order show in the figure.



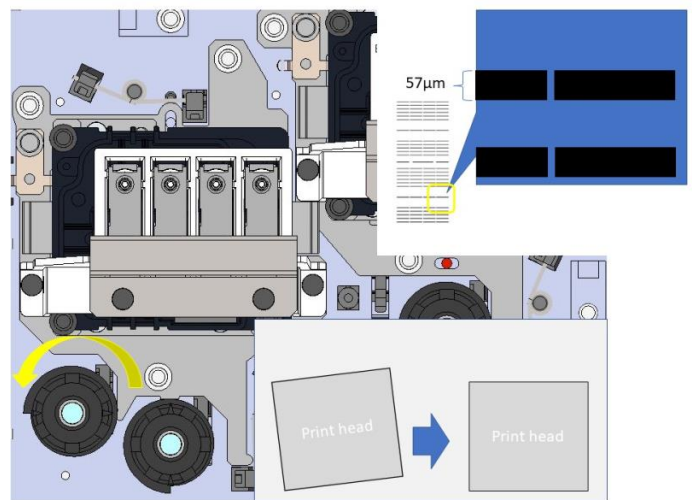
Step 12 / 29

[BIAS adjustment: When the left side of the left print head tilt position line is up and the right side is down] Turn the dial to the right to adjust the dot on the horizontal line if the misalignment is within 1/4 dot. (1 click on the dial moves the dot by 2.9 micrometers. 1 dot is 57 micrometers)



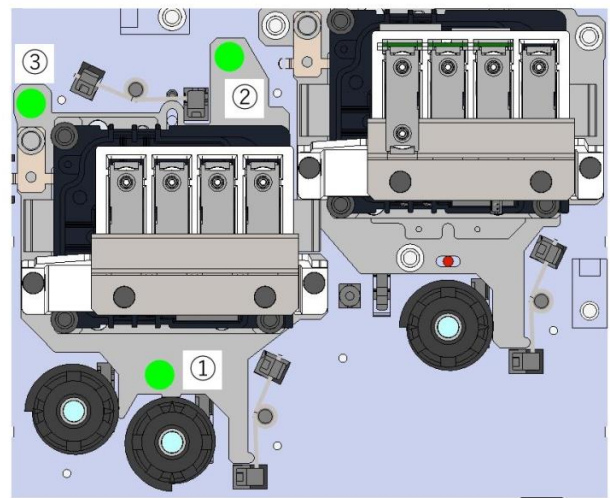
Step 13 / 29

[BIAS adjustment: When the left side of the left print head tilt position line is down and the right side is up] Turn the dial to the left and adjust the dot on the horizontal line if the misalignment is within 1/4 dot. (1 click on the dial moves 2.9 micrometers. 1 dot is 57 micrometers)



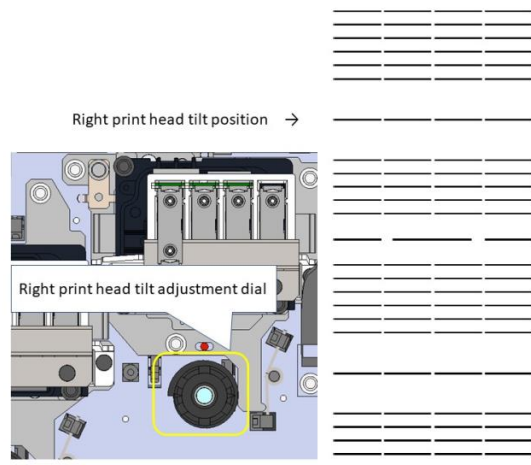
Step 14 / 29

[BIAS adjustment] After adjustment is complete, tighten the screws in numerical order shown in the figure (0.6 N-m).



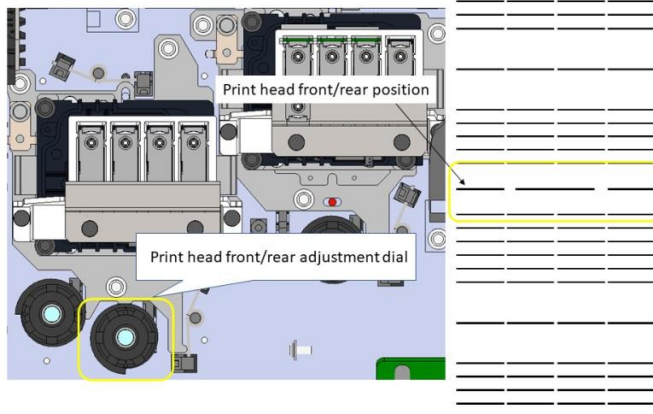
Step 15 / 29

[BIAS adjustment] Adjust the right print head position in the same way.



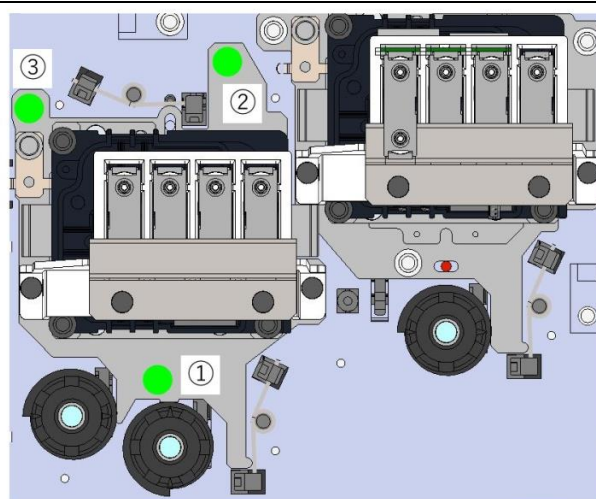
Step 16 / 29

[VERTICAL adjustment] This adjustment is made with Print head front-rear adjustment dial.



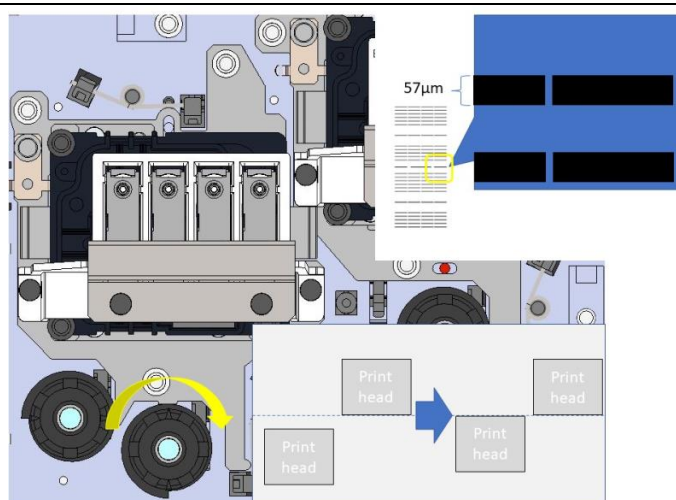
Step 17 / 29

[VERTICAL adjustment] Loosen the screws one full turn in numerical order show in the figure.



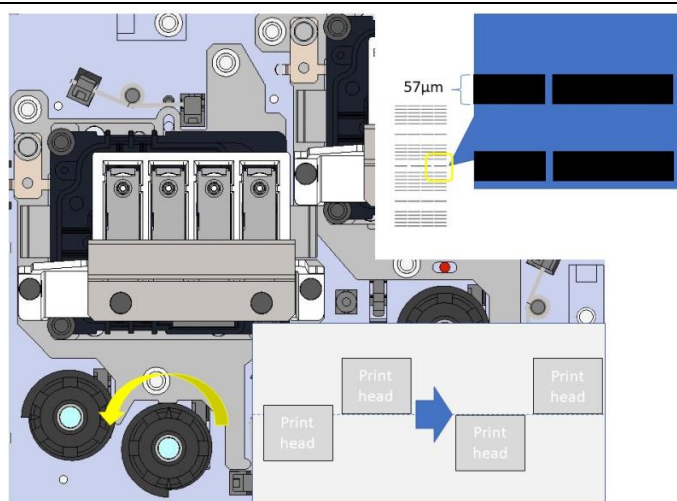
Step 18 / 29

[VERTICAL adjustment: When the middle line is below the outer lines.] Turn the dial to the right to adjust the dot on the horizontal line if the misalignment is within 1/4 dot. (1 click on the dial moves the dot by 12.2 micrometers. 1 dot is 57 micrometers).



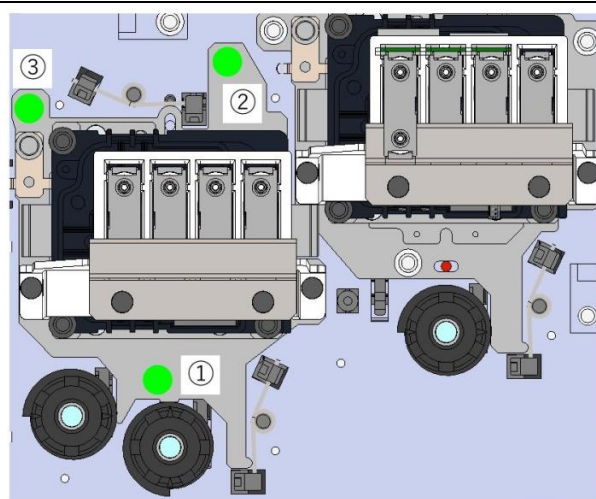
Step 19 / 29

[VERTICAL adjustment: If the middle line is above the outer lines.] Turn the dial to the left to adjust the dot on the horizontal line if the misalignment is within 1/4 dot deviation . (1 click on the dial moves the dot 12.2 micrometers. 1 dot is 57 micrometers)



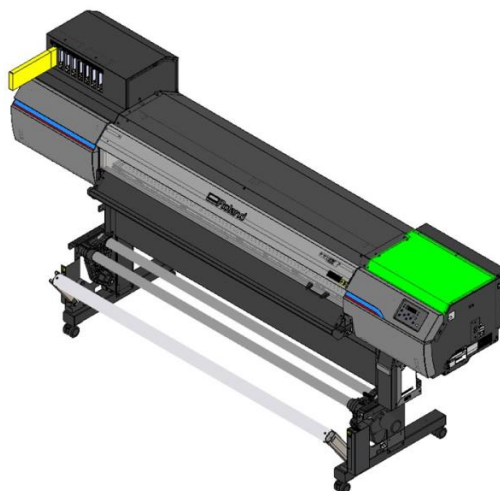
Step 20 / 29

[VERTICAL adjustment] Tighten the screws in numerical order shown in the figure. (0.6 N-m)



Step 21 / 29

Attach the cover.



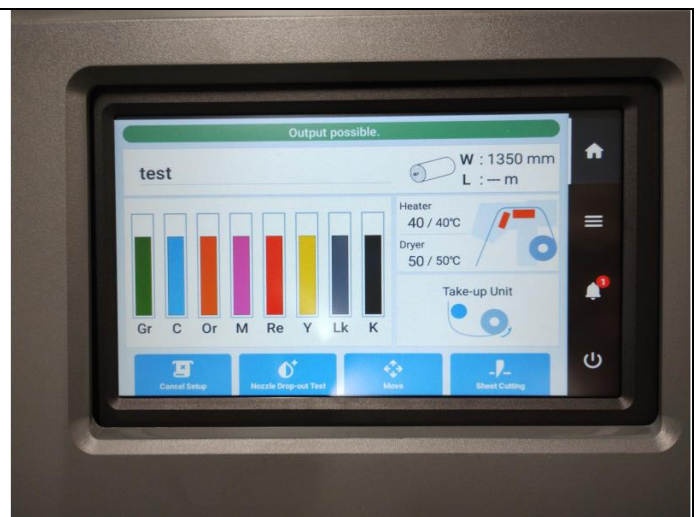
Step 22 / 29

Press [ENTER] under [MENU] > [M-GAP]
> [TEST PRINT].



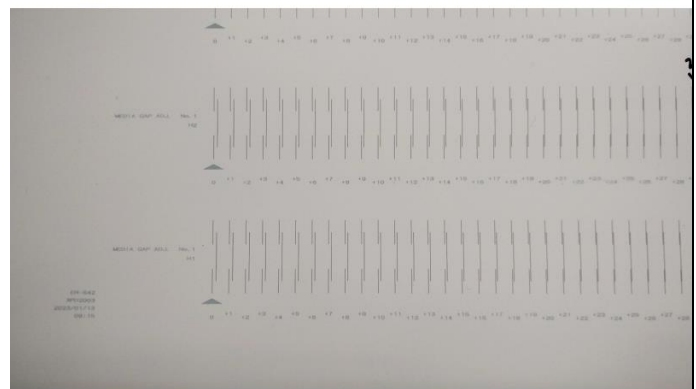
Step 23 / 29

The print heater will start automatically.
Wait until the heater temperature
reaches 40°C. (dryer temperature 50°C)



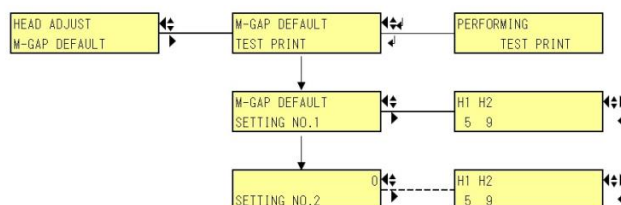
Step 24 / 29

Check the print result.



Step 25 / 29

Enter the numbers where the upper and lower black lines overlap and press [ENTER].



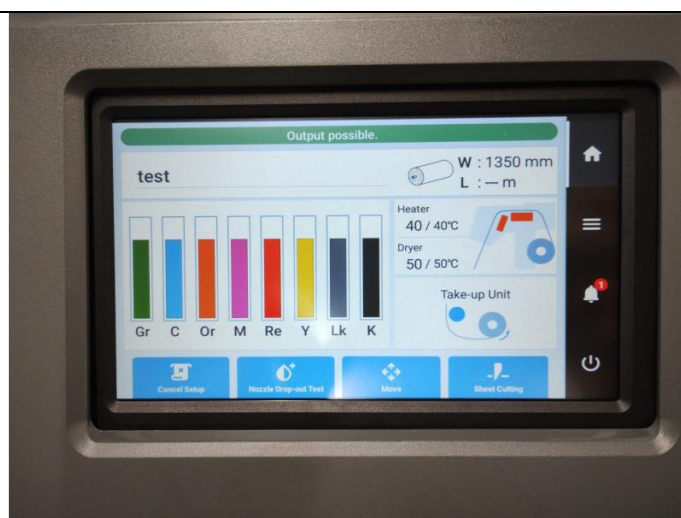
Step 26 / 29

Press [ENTER] under [MENU] > [HORIZONTAL] > [TEST PRINT].



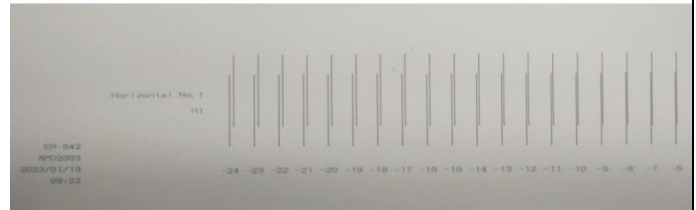
Step 27 / 29

The print heater will start automatically. Wait until the heater temperature reaches 40°C. (dryer temperature 50°C)



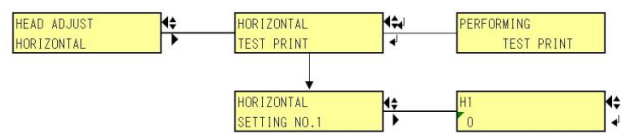
Step 28 / 29

Check the print result.



Step 29 / 29

Enter the numbers where the upper and lower black lines overlap and press [ENTER].



XP-640 Firmware Installation

XP-640 Firmware Installation Information

Step 1 / 2

General 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 is about 20 minutes longer, if you don't have the system parameters acquired with Peck2 when the main board was replaced, since you need more adjustments.

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.

XP-640 Firmware Installation

XP-640 Firmware Installation Procedure

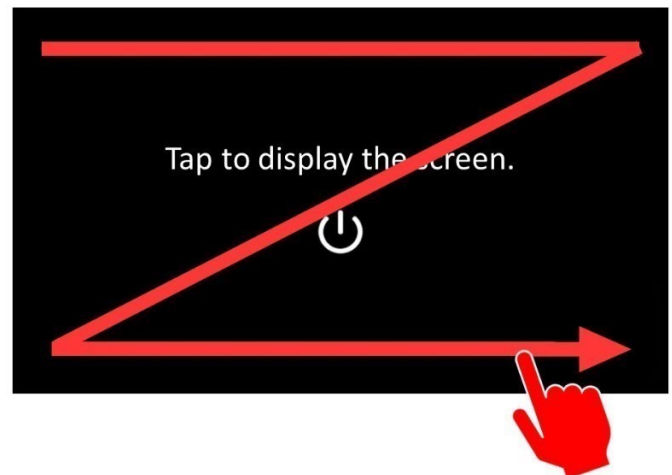
Step 1 / 35

In the special number input display, enter [3764892655] to enter Temporary IP address Setting Mode.



Step 2 / 35

Detail 1: Without releasing your finger from the panel, trace in the following order: top left, top right, bottom left, bottom right.



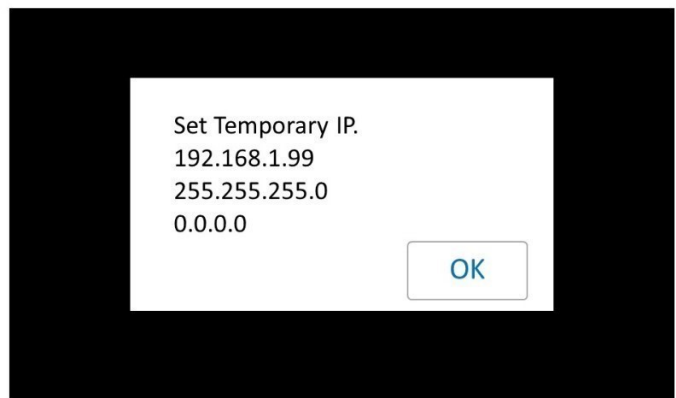
Step 3 / 35

Detail 2: In the special number input display, enter [3764892655] and press [OK].



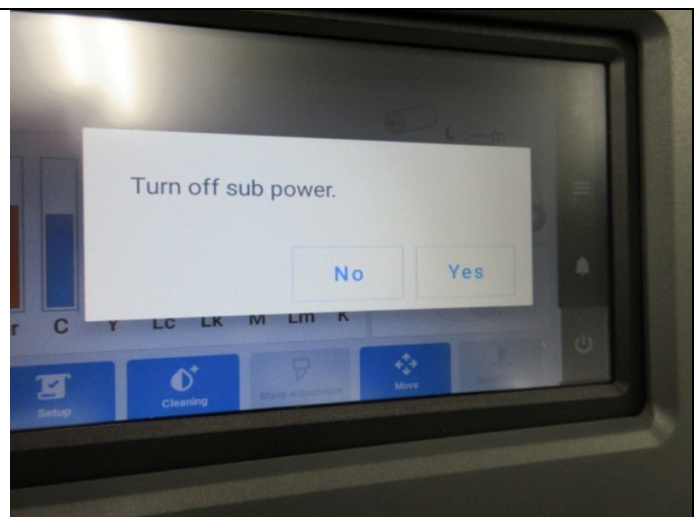
Step 4 / 35

The temporary IP address is displayed.
When you press [OK], a beep sounds
and the network settings is temporarily
set to [
192.168.1.99/255.255.255.0/0.0.0.0].



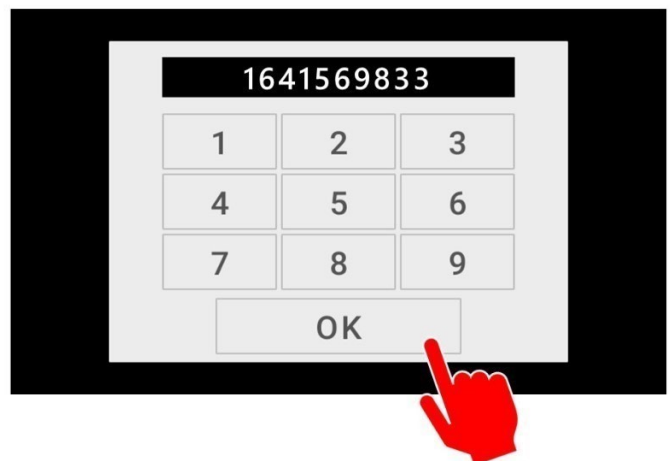
Step 5 / 35

Detail 1: You can exit from the
temporary IP address mode by turning
off the main power or rebooting
(turning the sub power from ON to
OFF).



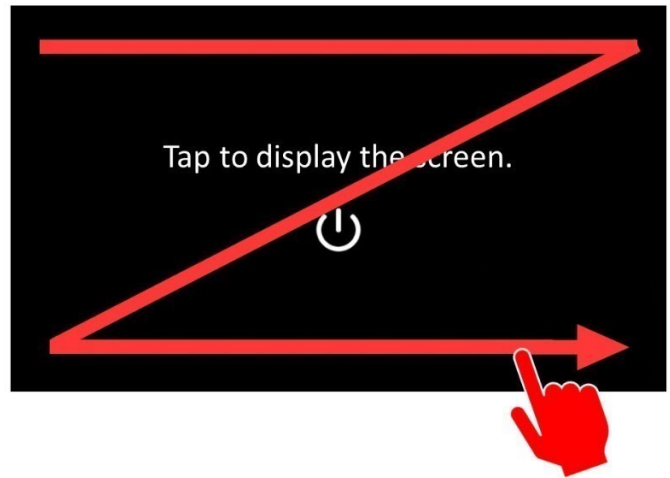
Step 6 / 35

From the special number input display,
enter [1641569833] to enter the
Firmware Upgrade mode.



Step 7 / 35

Detail 1: Without releasing your finger from the panel, trace in the following order: top left, top right, bottom left, bottom right.



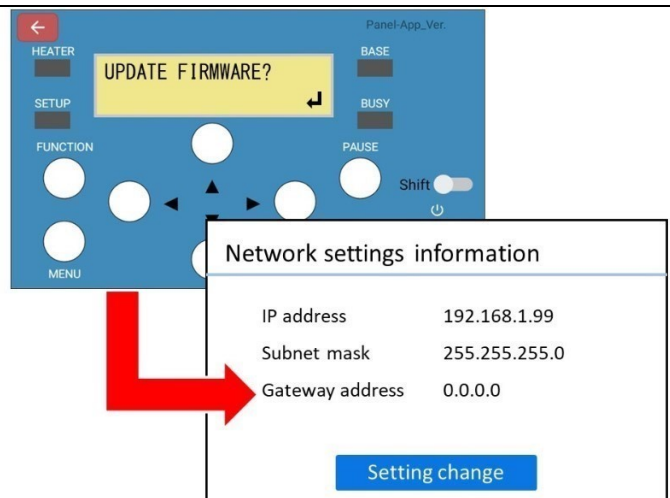
Step 8 / 35

Detail 2: At number input display, type [1641569833] and press [OK].



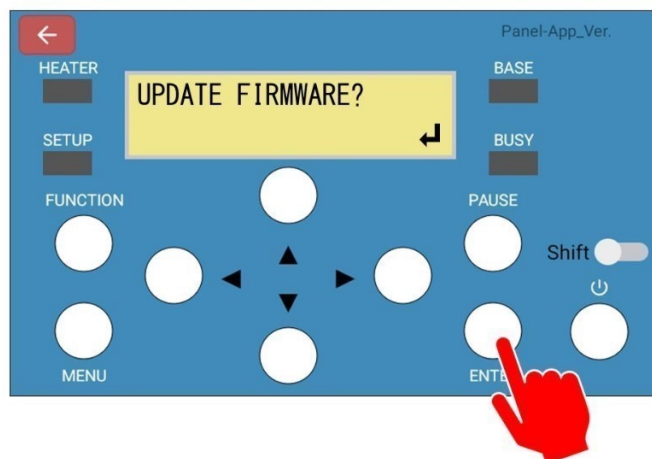
Step 9 / 35

Press [Enter] in the Service Mode Display to display Network setting information screen.



Step 10 / 35

Detail 1: Press [Enter] in the Service Mode Display.



Step 11 / 35

Detail 2: The network settings information is displayed. Leave it in this state and move on to the next step.

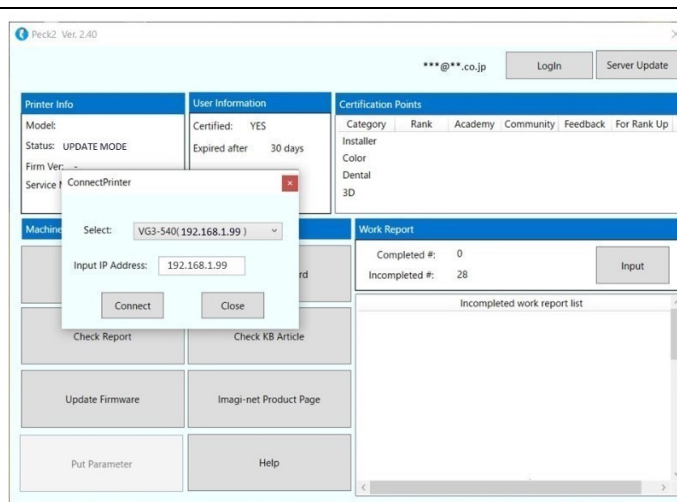
Network settings information

IP address	192.168.1.99
Subnet mask	255.255.255.0
Gateway address	0.0.0.0

Setting change

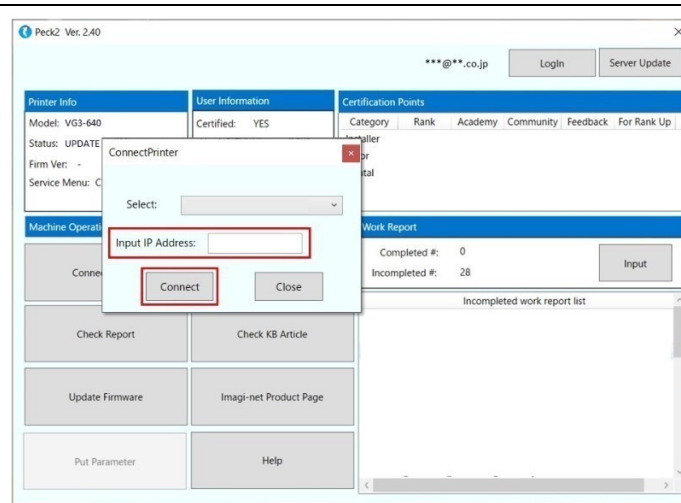
Step 12 / 35

From the [Connect Printer] of the Peck2, set the IP address to [192.168.1.99] and press the [Connect] button.



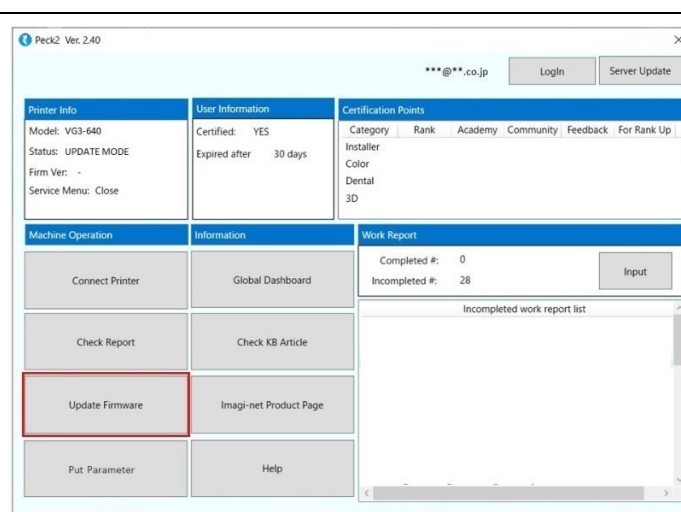
Step 13 / 35

Detail 1: Set the IP address to [192.168.1.99] and press the [Connect] button.



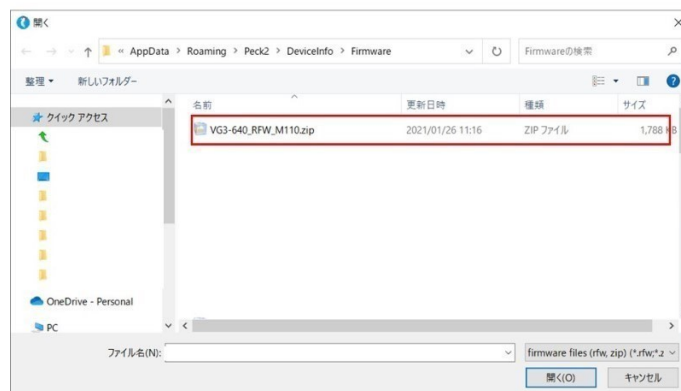
Step 14 / 35

Press [Update Firmware] button and select the firmware.



Step 15 / 35

Detail 1: Click [Open] and firmware is sent to the printer.



Step 16 / 35

Firmware installation starts. Wait about 5 min. for Installation to complete.

Software Update

Firmware version 1.10
Application version 1.1.8

⋮
Now processing.
Do not turn off the power.
Progress... 1/2 (6%)

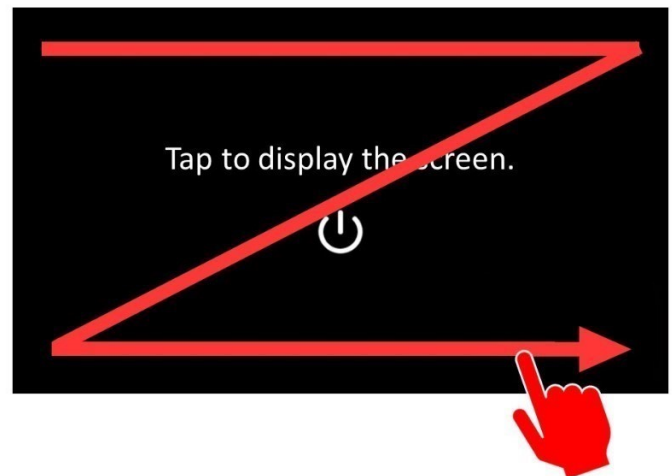
Step 17 / 35

From the special number input display, enter [6181355894] to enter the initialize mode.



Step 18 / 35

Detail 1: Without releasing your finger from the panel, trace in the following order: top left, top right, bottom left, bottom right.



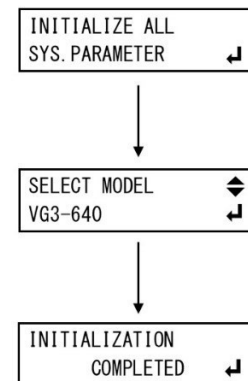
Step 19 / 35

Detail 2: At the special number input display, enter [6181355894] press [OK].



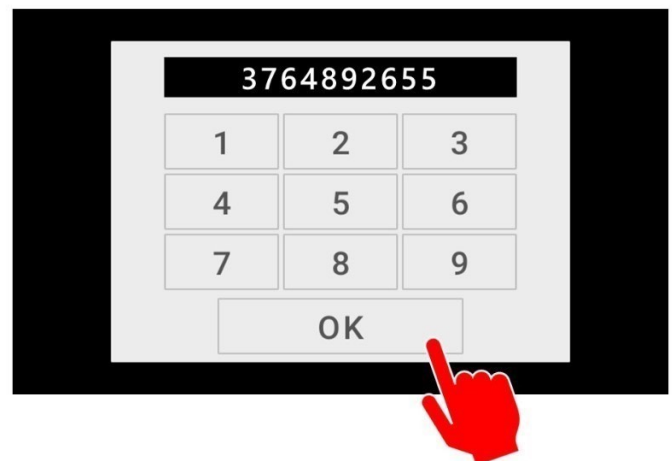
Step 20 / 35

Use the [↑] and [↓] buttons to select a model, then press the [ENTER] key to execute Initialization. The sub power switch turns off automatically when it is completed.



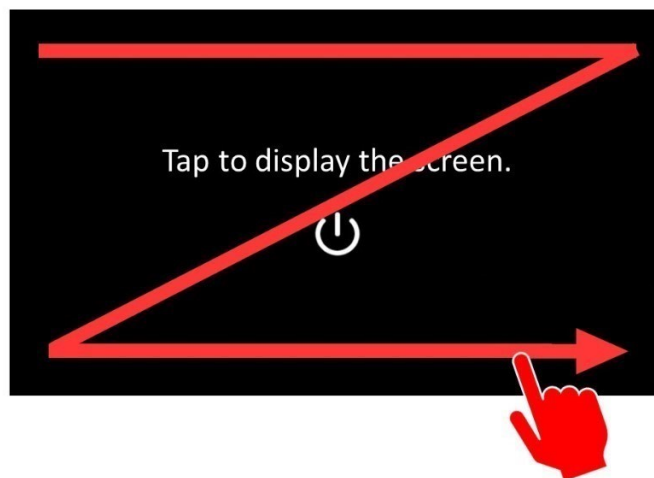
Step 21 / 35

At the special number input display, enter [3764892655] to enter the Temporary IP address Mode.



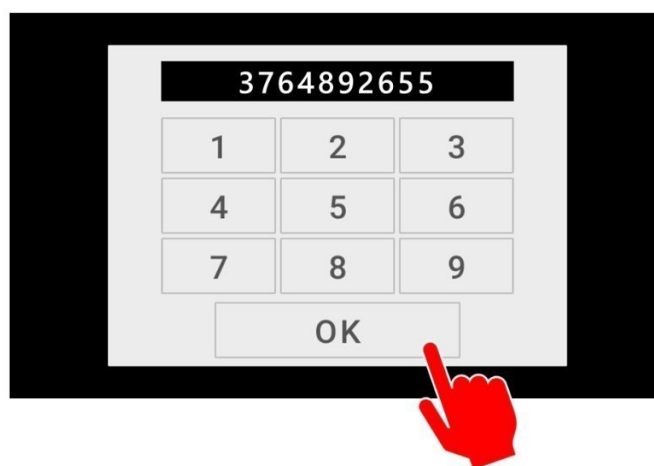
Step 22 / 35

Detail 1: Without releasing your finger from the panel, trace in the following order: top left, top right, bottom left, bottom right.



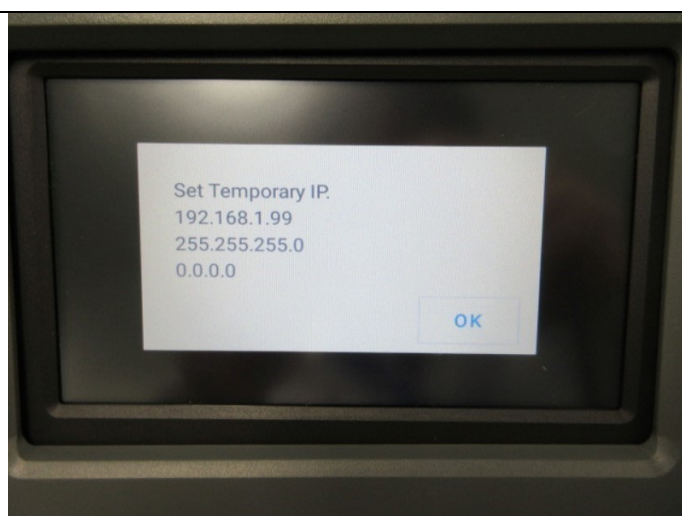
Step 23 / 35

Detail 2: At the special number input display, enter [3764892655] and press [OK].



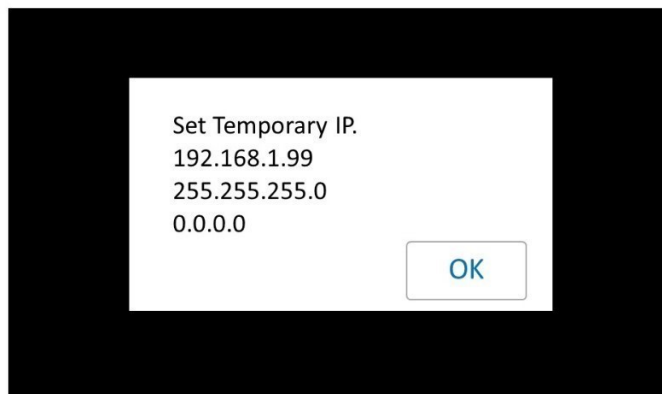
Step 24 / 35

Detail 3: When you press [OK], a beep sounds and the network settings is temporarily set to [192.168.1.99/255.255.255.0/0.0.0.0].



Step 25 / 35

Detail 1: The temporary IP address is displayed. When you press [OK], a beep sounds and the network settings is temporarily set to [192.168.1.99/255.255.255.0/0.0.0.0].



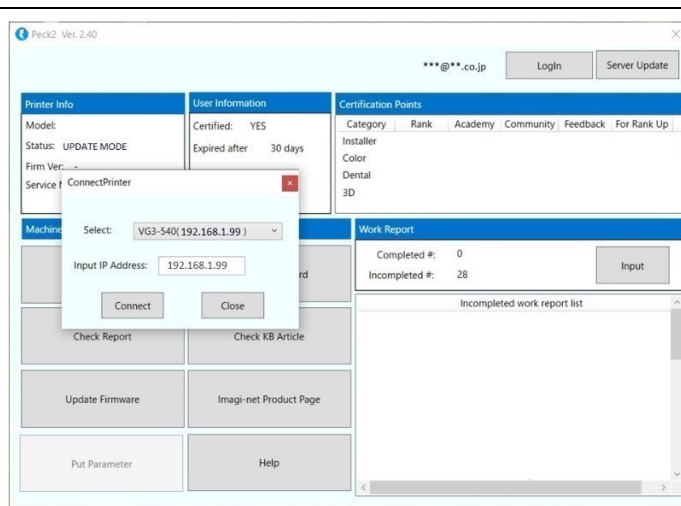
Step 26 / 35

You can exit from the temporary IP address mode by turning off the main power or rebooting (turning the sub power from ON to OFF).



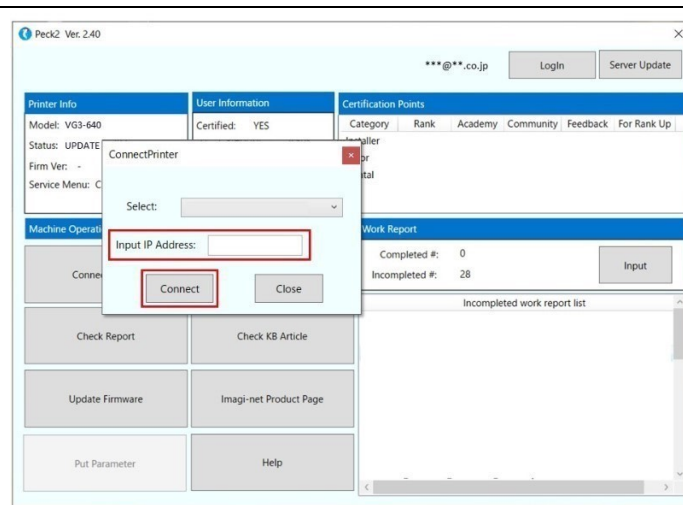
Step 27 / 35

From the [Connect Printer] of the Peck2, set the IP address to [192.168.1.99] and press the [Connect] button.



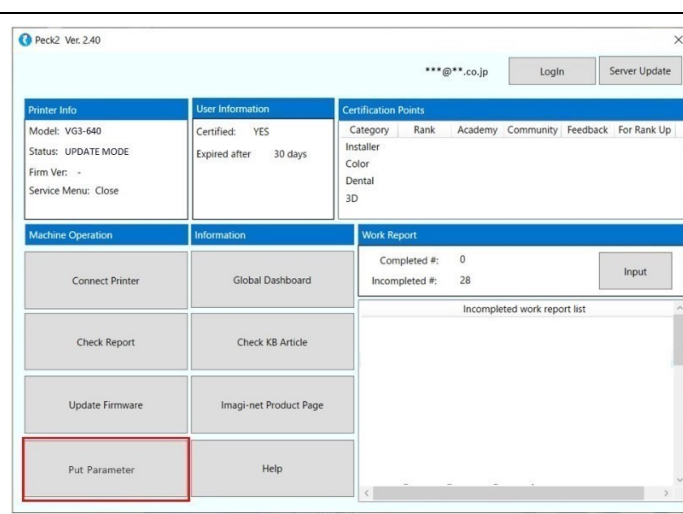
Step 28 / 35

Detail 1: Set the IP address to [192.168.1.99] and press the [Connect] button.



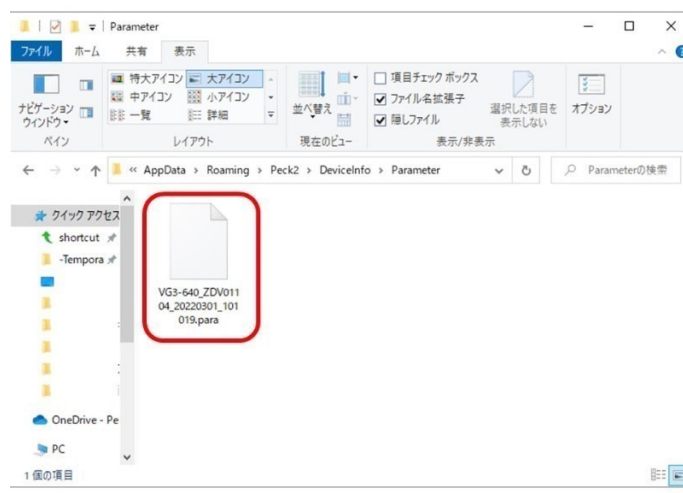
Step 29 / 35

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



Step 30 / 35

Detail 1: Select the system parameter file that has been acquired before replacing main board. When [Open] is clicked, the system parameter is transferred to the printer.



Click [Check Report] to import the system report. Confirm that system parameters are loaded properly.


Peck2 Ver. 2.00

***@**.co.jp

Login

Server Update

Printer Info

Model: VG3-640
Status: UPDATE MODE
Firm Ver: -
Service Menu: Close

User Information

Certified: YES
Expired after 30 days

Certification Points

Category Rank Academy Community Feedback For Rank Up

Installer
Color
Dental
3D

Machine Operation

Connect Printer

Global Dashboard

Check Report

Update Firmware

Put Parameter

Information

Check KB Article

Imagi-net Product Page

Help

Work Report

Completed #: 0
Incompleted #: 28

Input

Incompleted work report list

Detail 1: Confirm that system parameters are loaded properly.

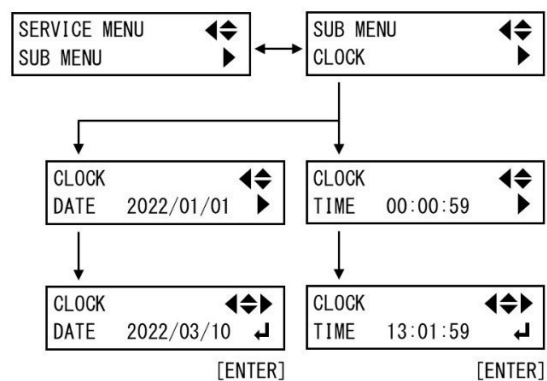
[illegible]

The configured network settings is rewritten to the address stored in the system parameters by executing [Put Parameter].



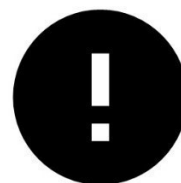
Step 34 / 35

From [SERVICE MENU] > [SUB MENU] > [CLOCK], perform Date and Time setting. If the parameters cannot be transferred by Peck2, refer to [When parameters cannot be transferred by Peck2] on [Main Board Replacement].



Step 35 / 35

Perform the network settings again if necessary.



XP-640 Firmware Upgrade

XP-640 Firmware Upgrade Information

Step 1 / 2

General Tools

一般ツール/General Tool

無し None	
------------	--

特殊治具/Special Tools

無し None	
------------	--

Step 2 / 2

Typical Work Time

作業時間/Typical work time

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

XP-640 Firmware Upgrade

XP-640 Firmware Upgrade Procedure

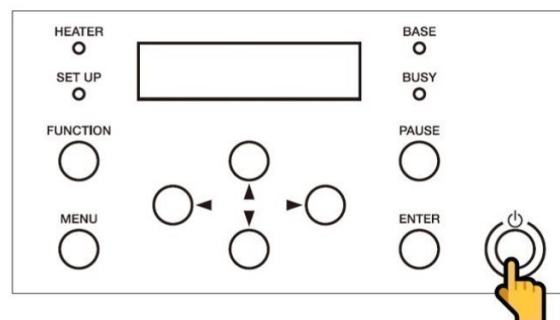
Step 1 / 13

Check IP address of the printer. Turn on the main power switch and sub power switch and check [Hamburger menu] > [Network Setting] > [IP-Address] on the panel of the machine.



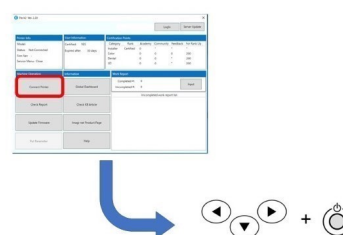
Step 2 / 13

Turn off the sub power switch.



Step 3 / 13

Connect Peck2 to the machine and enter the service mode.



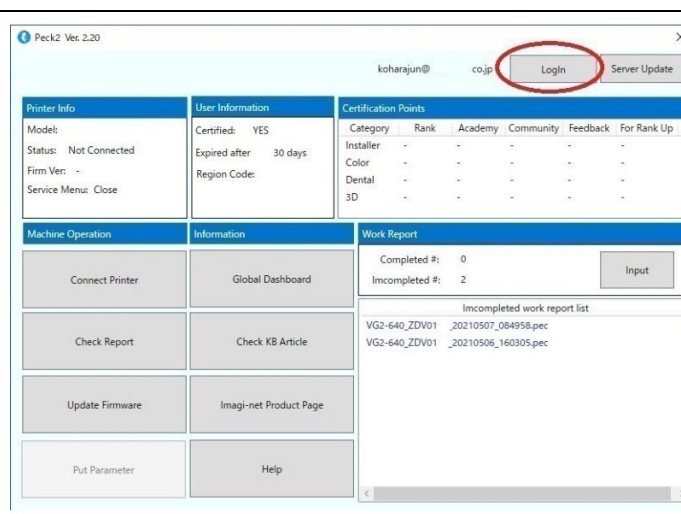
Step 4 / 13

Detail 1: Start Peck2.



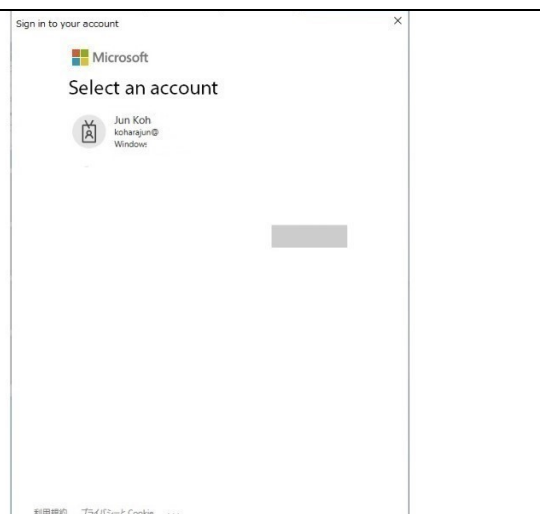
Step 5 / 13

Detail 2: Click the [Login] button.



Step 6 / 13

Detail 3: Log in with Imagi-net ID.



Step 7 / 13

Detail 4: Click the [Connect Printer] button.

Peck2 Ver. 2.20

koharjun@ .co.jp Login Server Update

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

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

Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Step 8 / 13

Detail 5: Enter the IP address of the device you wish to connect to.

Peck2 Ver. 2.20

koharjun@ .co.jp Login Server Update

Printer Info	User Information	Certification Points
Model: VG2-640_ZDV01	Certified: YES	Category Rank Academy Community Feedback For Rank Up
ConnectPrinter	Expired after: 30 days	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
Check Report	Check KB Article	Incompleted #: 2
Update Firmware	Imagi-net Product Page	Input
Put Parameter	Help	

Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

Step 9 / 13

Detail 6: When the printer is connected, printer information will be displayed in [Printer Info].

Peck2 Ver. 2.20

koharjun@ .co.jp Login Server Update

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

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

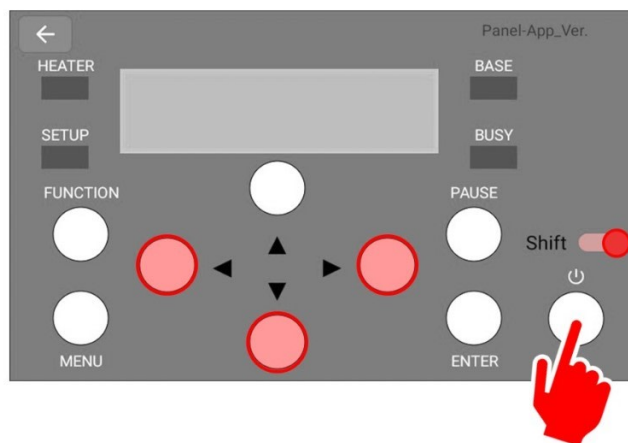
Imcompleted work report list

VG2-640_ZDV01 _20210507_084958.pec

VG2-640_ZDV01 _20210506_160305.pec

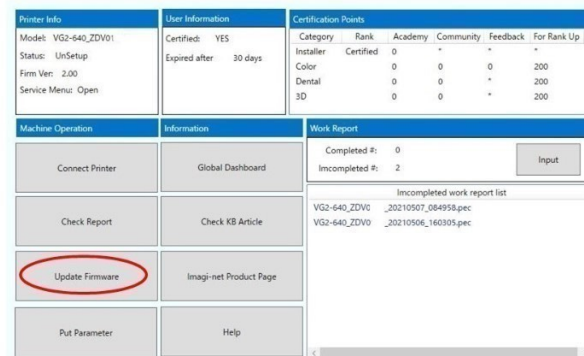
Step 10 / 13

Detail 7: Press [Shift]> [□]+[□]+[□]+[Sub Power] on the panel to enter the service mode. By turning on the [Shift] button, multiple buttons can be pressed at the same time.



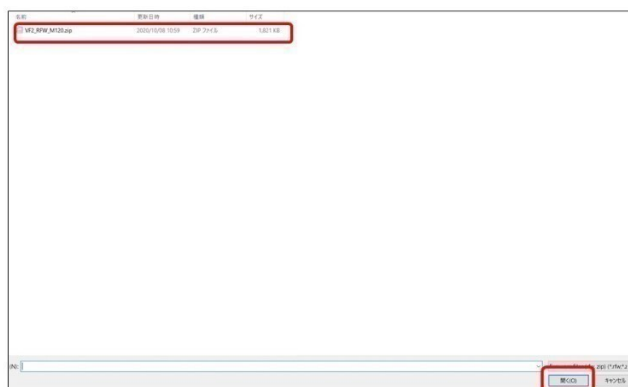
Step 11 / 13

When you press the [Update Firmware] button and select the firmware file, the firmware will be transferred to the printer.



Step 12 / 13

Select the firmware file and click [Open] to transfer the firmware file to the printer.



Step 13 / 13

The printer goes into the firmware upgrade mode automatically. When the upgrade is completed, the sub power switch turns off automatically.
Upgrading takes more than 5 min.

Software Update

Firmware version	1.10
Application version	1.1.8



Now processing.
Do not turn off the power.

Progress... 1/2 (6%)



XP-640 Limit Position Initialization

XP-640 Limit Position Initialization Information

Step 1 / 2

General Tools

一般ツール/General Tool

無し None	
------------	--

特殊治具/Special Tools

無し None	
------------	--

Step 2 / 2

Typical work time

作業時間/Typical work time

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

XP-640 Limit Position Initialization

XP-640 Limit Position Initialization Procedure

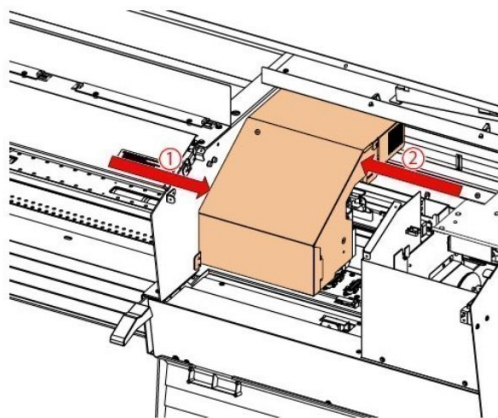
Step 1 / 3

Press [Shift]> [□]+[□]+[□]+[Sub Power] on the panel to enter the service mode.



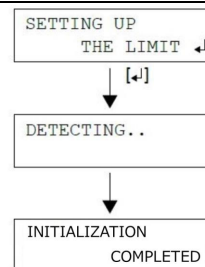
Step 2 / 3

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

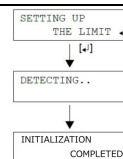


Step 3 / 3

Confirm that it is locked in the correct position and press [ENTER]. Limit position initialization starts. After



initialization is completed, a message is displayed.



XP-640 Belt Tension Adjustment

XP-640 Belt Tension Adjustment Information

Step 1 / 3

General Tools

一般ツール/General Tool

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

Step 2 / 3

Special Tools

特殊治具/Special Tools

ST-001 TENSION GAUGE 2000GF/2000CN	
---------------------------------------	---

Step 3 / 3

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.

XP-640 Belt Tension Adjustment

XP-640 Belt Tension Adjustment Procedure

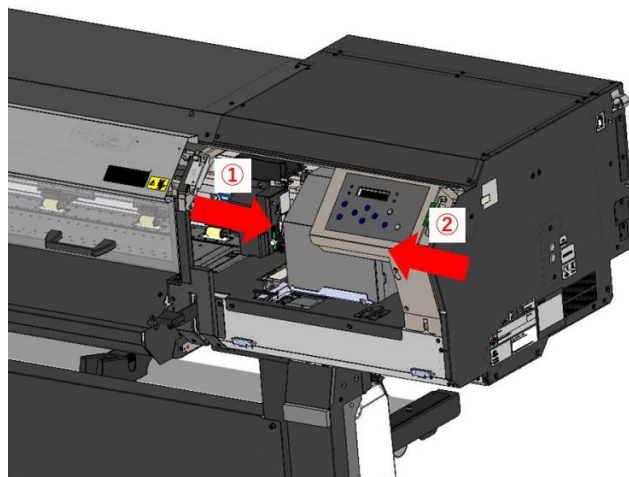
Step 1 / 13

Open the left and right maintenance covers.



Step 2 / 13

After locking the print head carriage, press the carriage to the left side to confirm that it is locked as well as to eliminate looseness. *The image is ER-642.



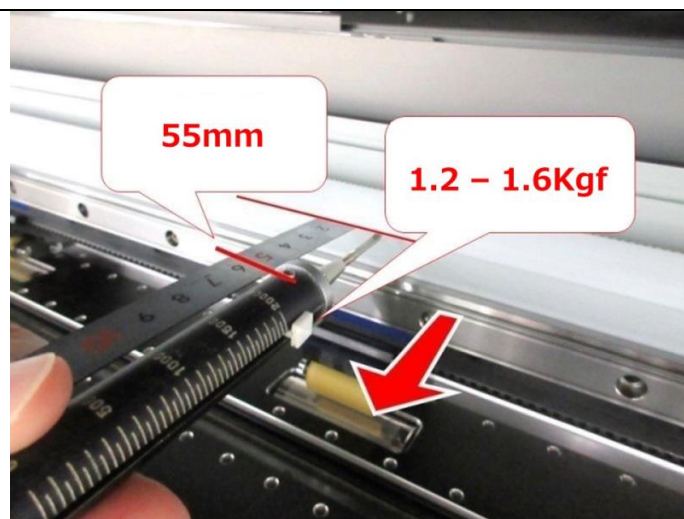
Step 3 / 13

The measurement position is at the center of the fifth grit roller from the right.



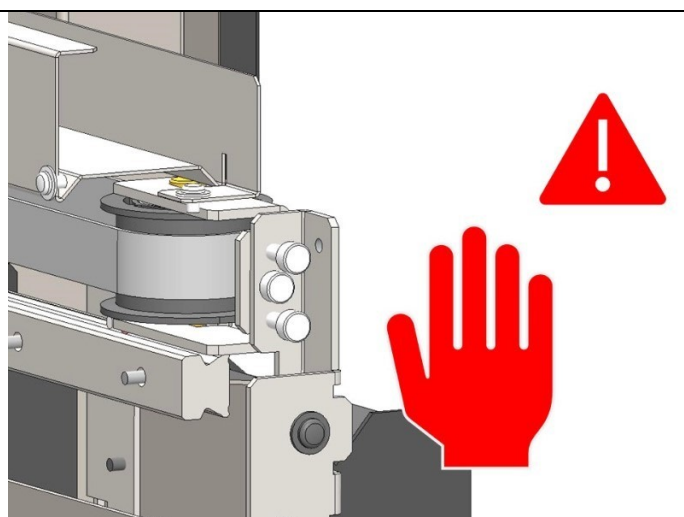
Step 4 / 13

Measure the tension when the underside of the belt is pulled up to the indicated position from the rail mounting sheet metal. If the measured value is within the specified range, the adjustment is not necessary. If the measured value is out of specified range, adjust the tension.



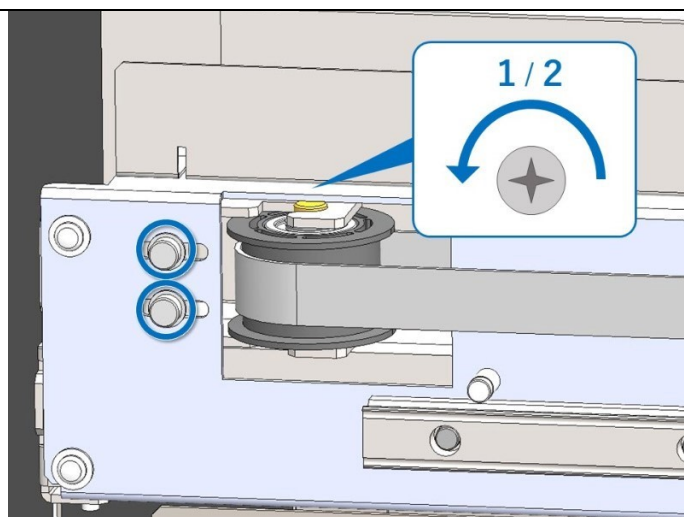
Step 5 / 13

When turning the screws, be careful of surrounding protrusions. Failure to do so may result in hand injury.



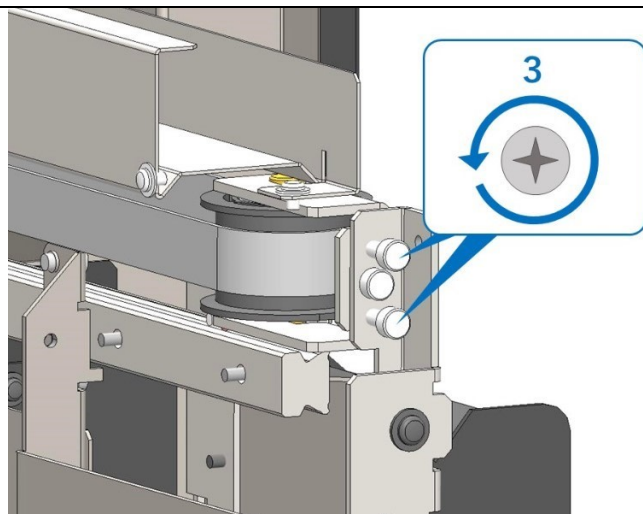
Step 6 / 13

Loosen the two fixing screws at the left end of the belt by about 1/2 turn.



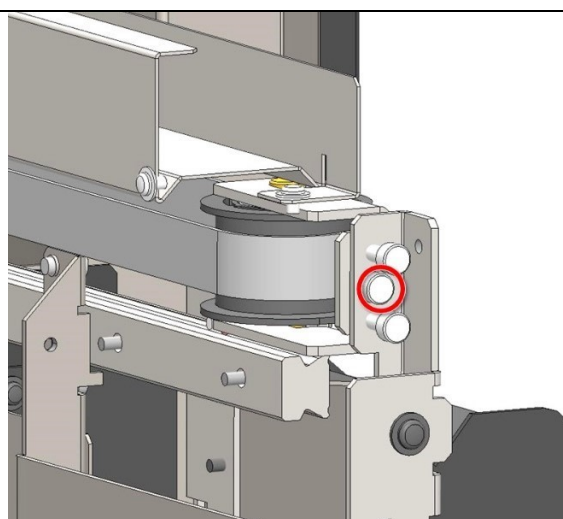
Step 7 / 13

Loosen the adjusting screws (2 positions) about 3 times to create a gap of about 3 mm between the tip of the screws and the idle pulley holder. If they are in contact, further tension cannot be applied.



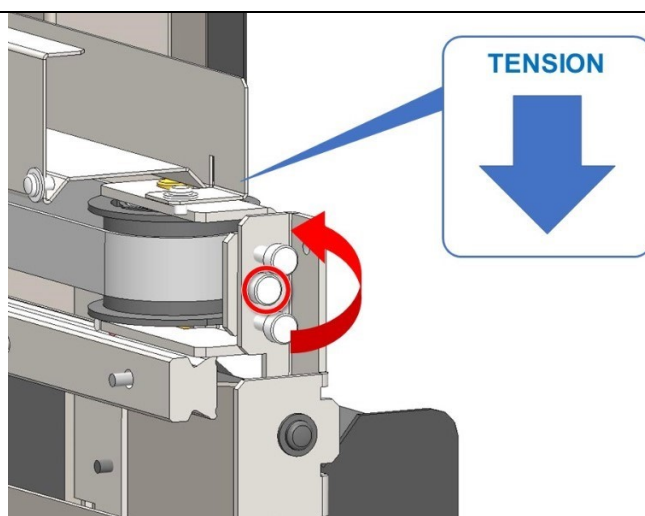
Step 8 / 13

Turn the adjustment screw and adjust the tension gauge value so that it falls within the proper range.



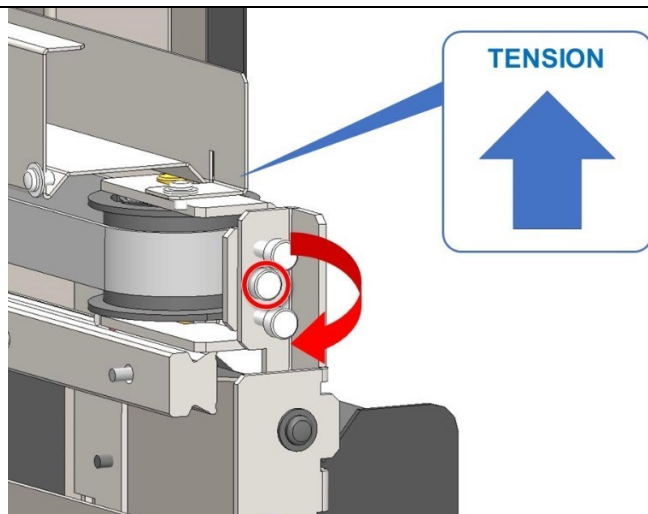
Step 9 / 13

Detail 1: Turn the screw to the left: decrease the tension.



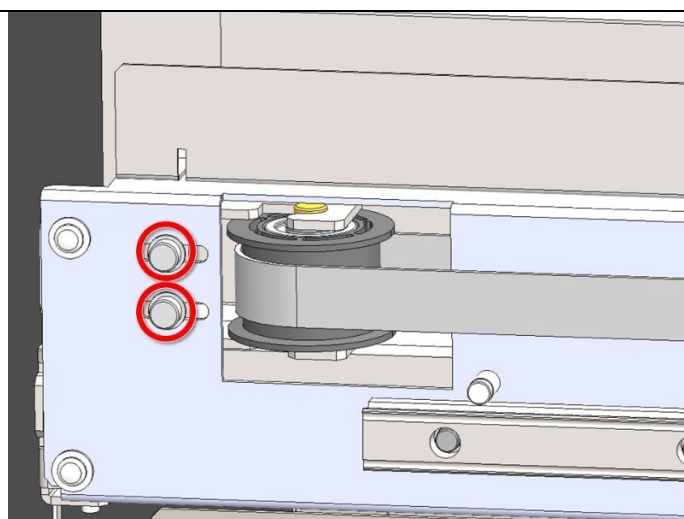
Step 10 / 13

Detail 2: Turn the screw to the right:
Increase the tension.



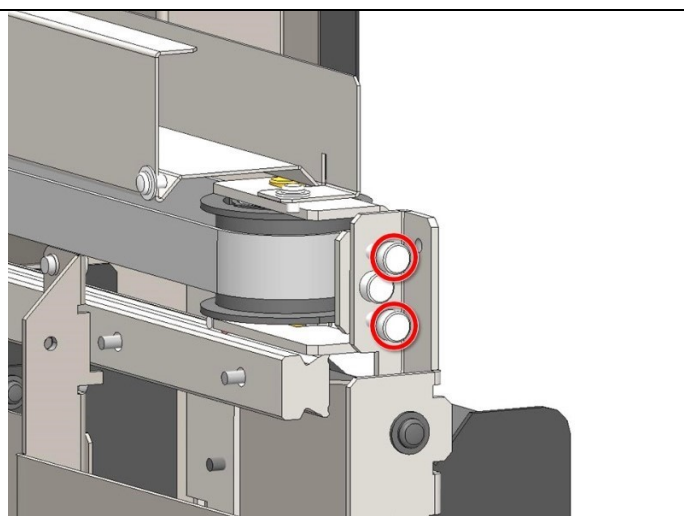
Step 11 / 13

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



Step 12 / 13

Tighten the adjusting screws (2
positions) just enough to lightly contact
the idle pulley holder. Note that if the
tightening force is too strong, the fixed
idle pulley holders may move.



Step 13 / 13

The adjustment is complete. Next,
perform belt position adjustment.



次の手順

ベルト位置調整

Next Step

Belt Position Adjustment

XP-640 Belt Position Adjustment

XP-640 Belt Position Adjustment Information

Step 1 / 5

General Tools

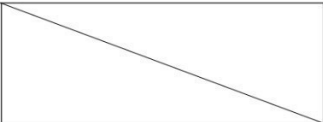
一般ツール/General Tool

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

Step 2 / 5

Special Tools

特殊治具/Special Tools

なし None	
------------	---

Step 3 / 5

Typical work time

作業時間/Typical work time

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

Step 4 / 5

Remove the cover.



Step 5 / 5

Detail 1: How to remove the cover

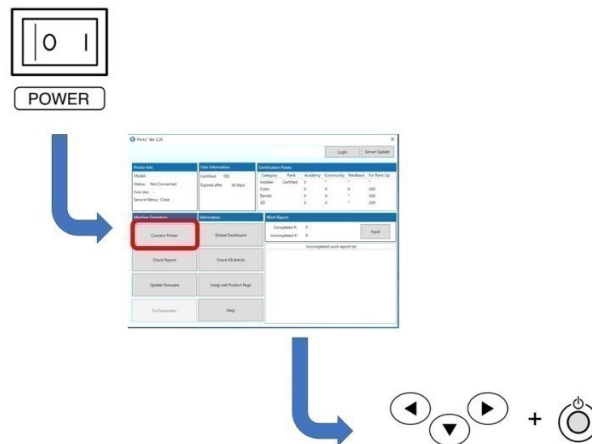


XP-640 Belt Position Adjustment

XP-640 Belt Position Adjustment Procedure

Step 1 / 40

Turn on the power and connect Peck2 to the machine to enter Service Mode.



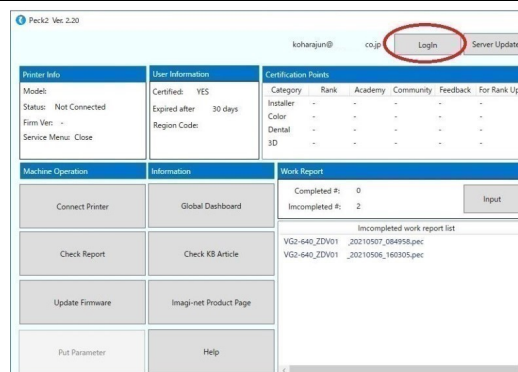
Step 2 / 40

Detail 1: Start Peck2.



Step 3 / 40

Detail 2: Click the [Login] button.



Friday, July 4, 2025 10:23 AM

Language: en

Step 4 / 40

Detail 3: Log in with your Imagi-net ID.

Sign in to your account

Microsoft

Select an account

 Jun Koh
koharajun@
Window

利用規約

プライバシーとCookie

Step 5 / 40

Detail 4: Click [Connect Printer].

Peck2 Ver. 2.20

koharajun@

co.jp

Login

Server Update

Printer Info

Model: VG2-640_ZDV01

Status: Not Connected

Firm Ver: -

Service Menu: Close

User Information

Certified: YES

Expired after: 30 days

Region Code:

Certification Points

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

Machine Operation

Connect Printer

Check Report

Update Firmware

Put Parameter

Information

Global Dashboard

Check KB Article

Imagi-net Product Page

Help

Work Report

Completed #: 0

Input

Imcompleted #: 2

Imcompleted work report list

VG2-640_ZDV01_20210507_084958.pec

VG2-640_ZDV01_20210506_160305.pec

Step 6 / 40

Detail 5: Printer information will be displayed.

Peck2 Ver. 2.20

koharajun@

co.jp

Login

Server Update

Printer Info

Model: VG2-640_ZDV01

Status: UnSetup

Firm Ver: 2.00

Service Menu: Open

User Information

Certified: YES

Expired after: 30 days

Certification Points

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

Machine Operation

Connect Printer

Check Report

Update Firmware

Put Parameter

Information

Global Dashboard

Check KB Article

Imagi-net Product Page

Help

Work Report

Completed #: 0

Input

Imcompleted #: 2

Imcompleted work report list

VG2-640_ZDV01_20210507_084958.pec

VG2-640_ZDV01_20210506_160305.pec

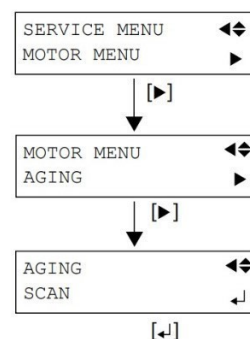
Step 7 / 40

Detail 6: Press [Shift]> [□]+[□]+[□]+[Sub Power] on the panel to enter the service mode.



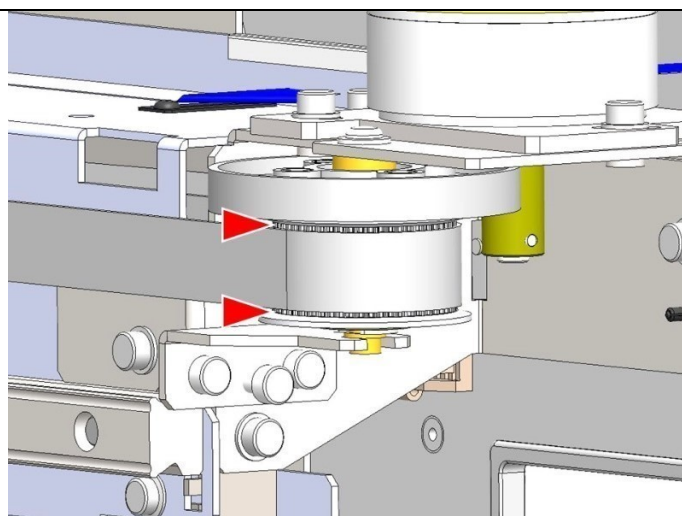
Step 8 / 40

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



Step 9 / 40

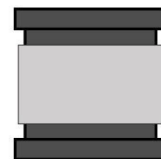
Check the belt position. If the belt is not excessively contacting the flange of the drive pulley, the position is proper. If there is only partial contact, it is considered acceptable.



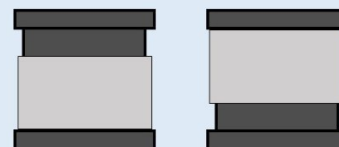
Step 10 / 40

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

OK



No good



Step 11 / 40

Press the [ENTER] key to finish aging.

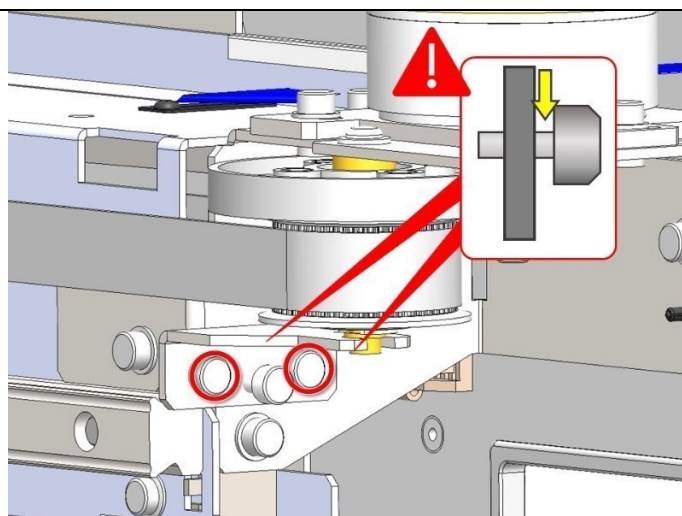
SCAN
NOW AGING



[↵]

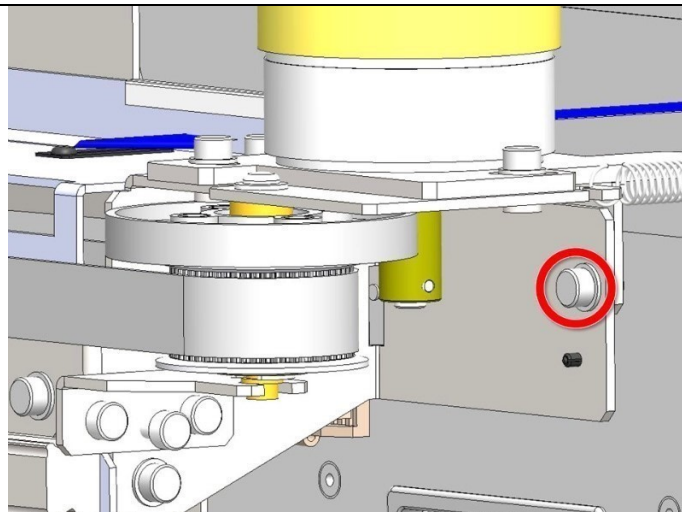
Step 12 / 40

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



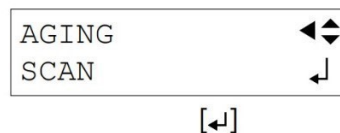
Step 13 / 40

Loosen the fixing screws located at the bottom of the scan motor about a half turn.



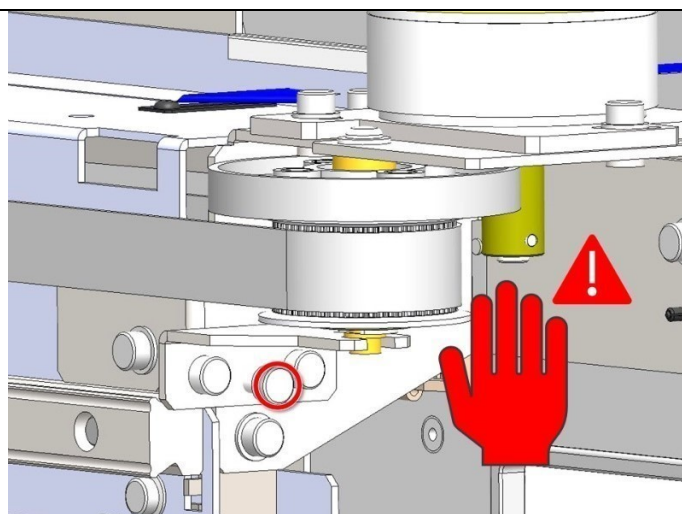
Step 14 / 40

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



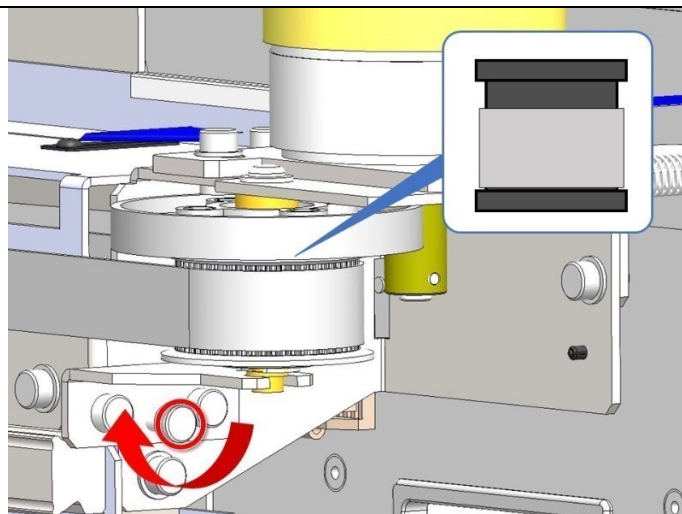
Step 15 / 40

Turn the adjusting screw and adjust the belt position referring to the following steps. Since the work space is small, be careful not to let your hands hit the rotating pulleys or the belt.



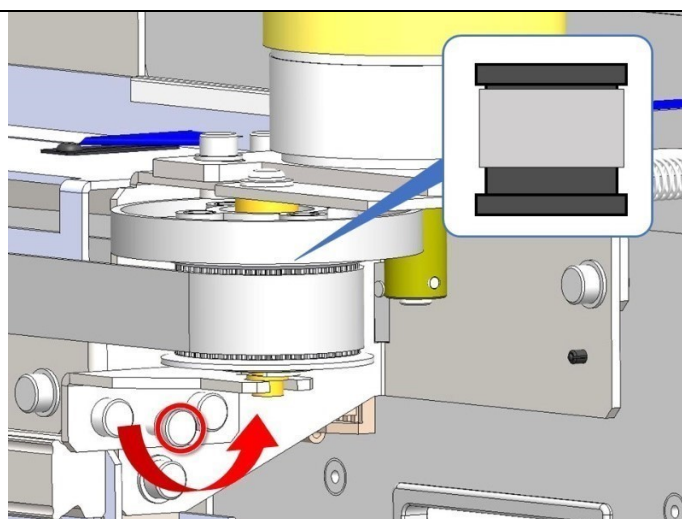
Step 16 / 40

Detail 1: If the belt is positioned toward the bottom of the main unit, turn the adjustment screw clockwise (in the direction of tightening) a little at a time.



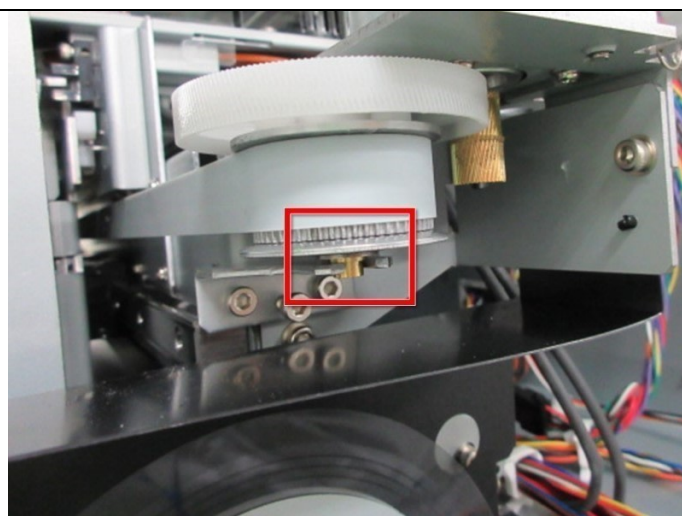
Step 17 / 40

Detail 2: If the belt is positioned toward the upper side of the main unit, turn the adjusting screw counterclockwise (in the direction of loosening) a little at a time.



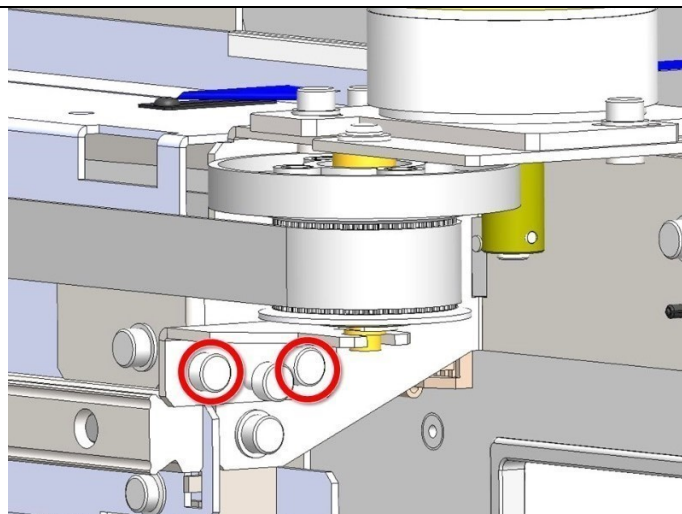
Step 18 / 40

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



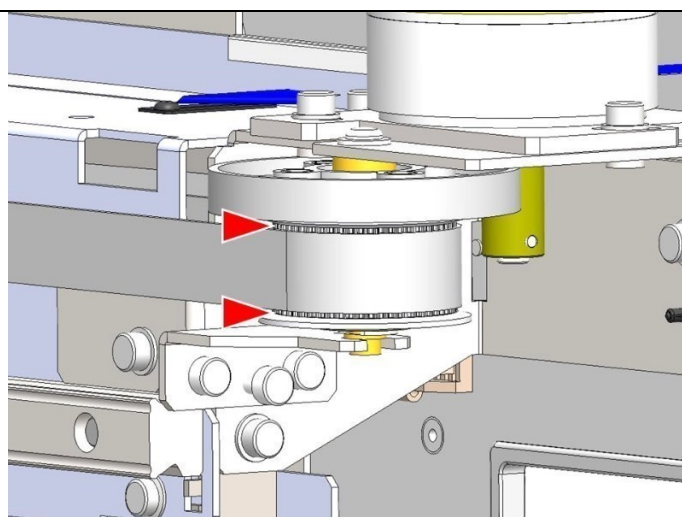
Step 19 / 40

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



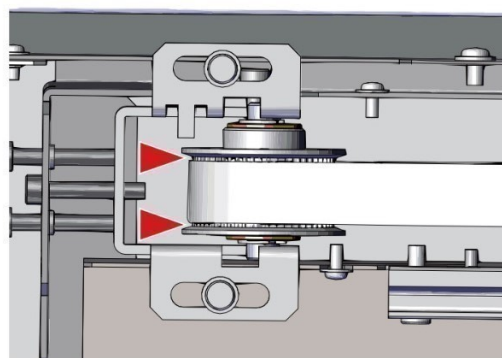
Step 20 / 40

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



Step 21 / 40

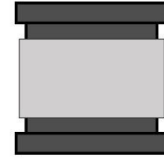
Check the belt position.



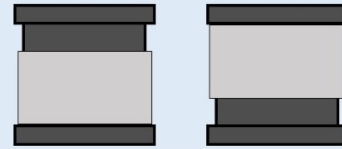
Step 22 / 40

Check that the belt is not in excessive contact with the pulley flange. If there is only partial contact, it is considered acceptable. If the position is proper, adjustment is complete. If not, perform the following adjustment.

OK



No good



Step 23 / 40

Press the [ENTER] key to finish aging.

SCAN

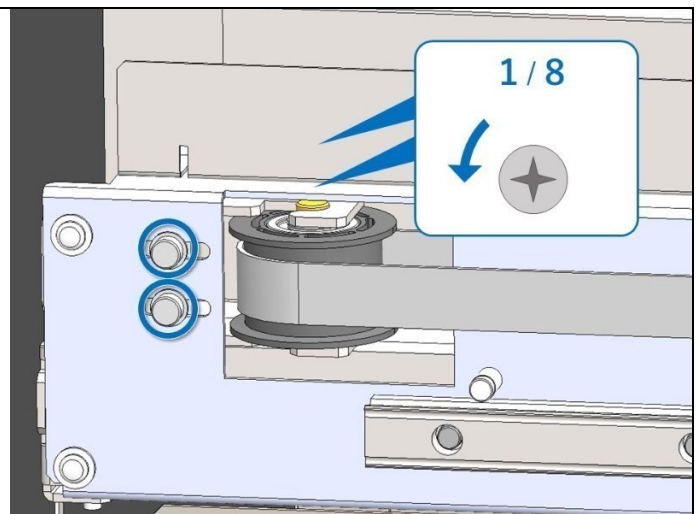
NOW AGING



[↵]

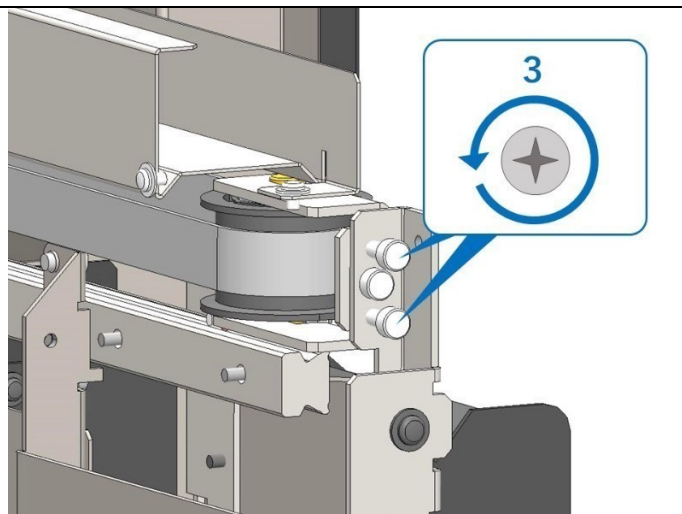
Step 24 / 40

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



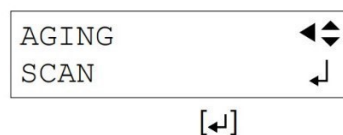
Step 25 / 40

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



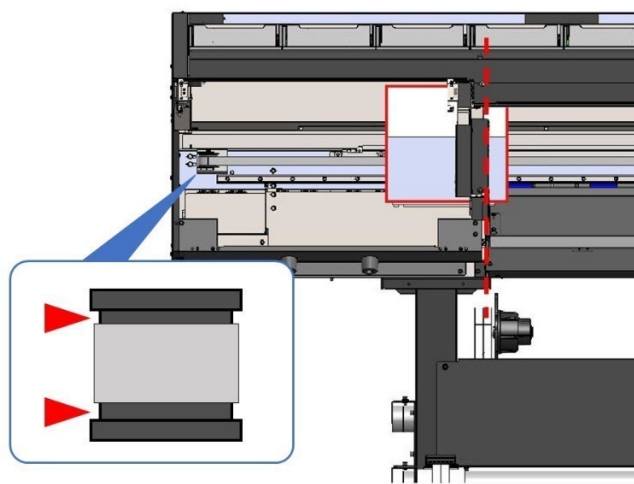
Step 26 / 40

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



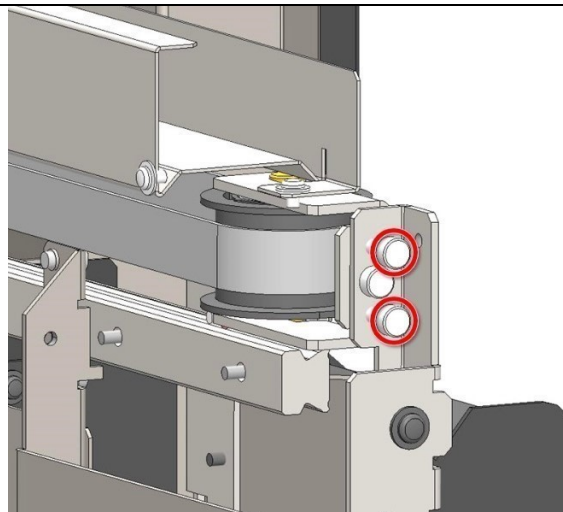
Step 27 / 40

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



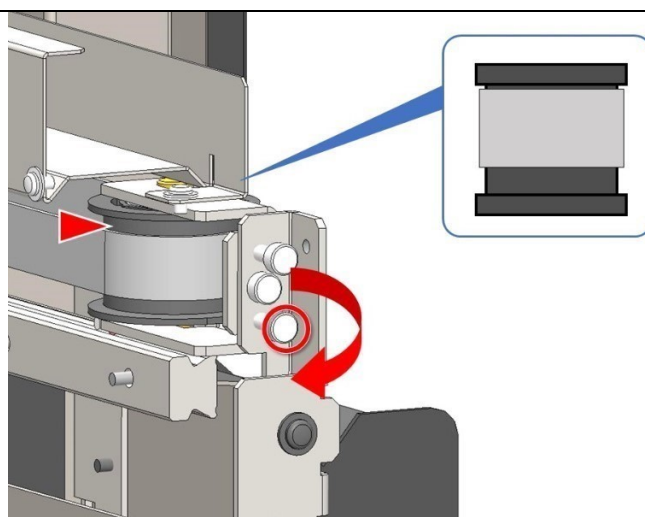
Step 28 / 40

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



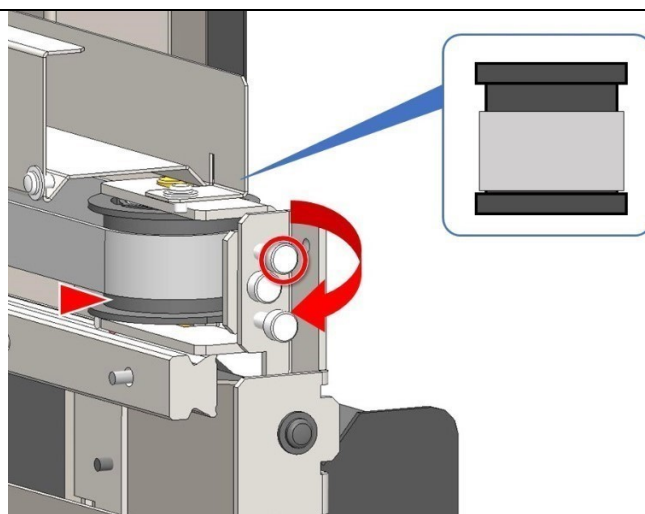
Step 29 / 40

Detail 1: If the belt is close to the upper side of the machine, turn the adjustment screw (bottom) clockwise a little and press it against the idler pulley holder.



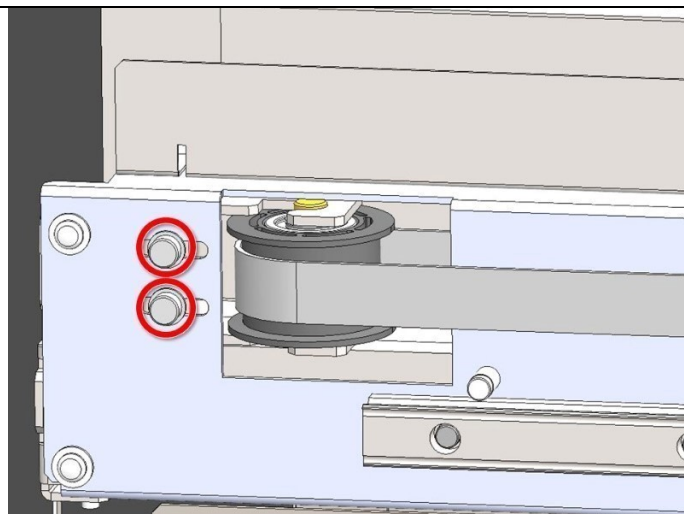
Step 30 / 40

Detail 2: If the belt is on the lower side of the machine, turn the adjusting screw (upper) clockwise a little and press it against the idler pulley holder.



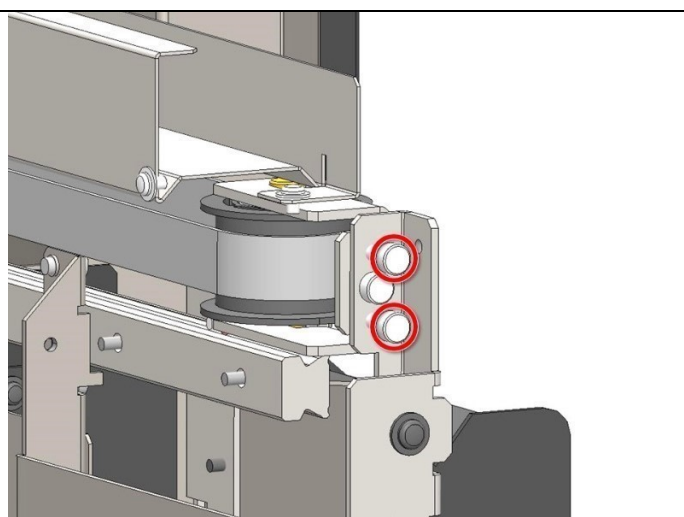
Step 31 / 40

Tighten the two fixing screws.



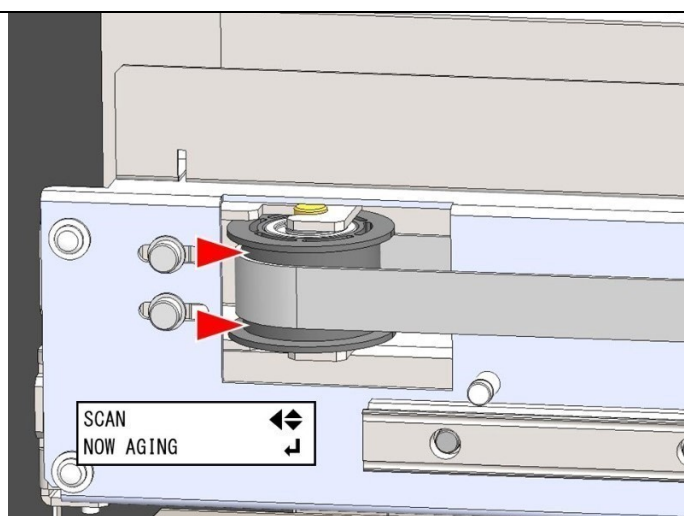
Step 32 / 40

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



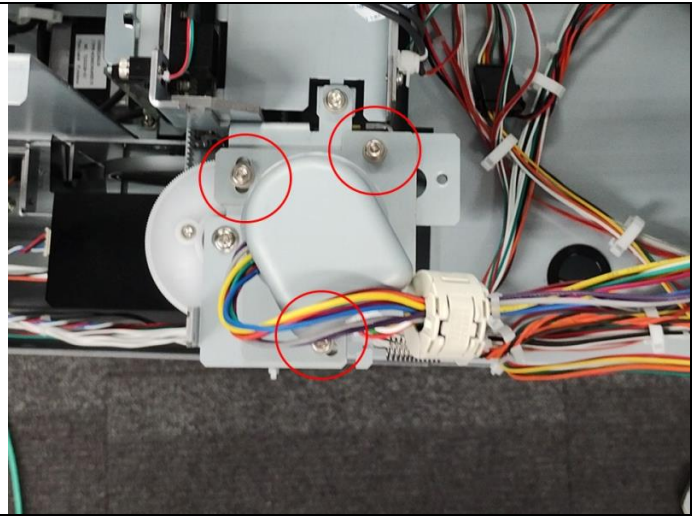
Step 33 / 40

Press the [ENTER] key to finish aging.



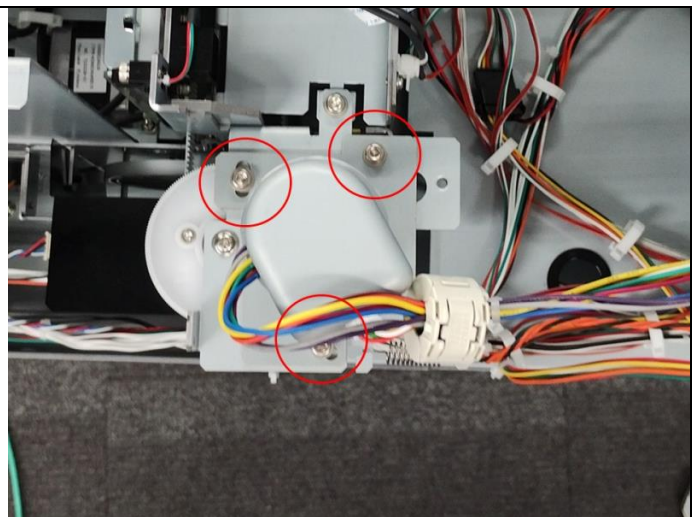
Step 34 / 40

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



Step 35 / 40

Detail 1: Loosen the scan motor fixing screws (3 positions) once.



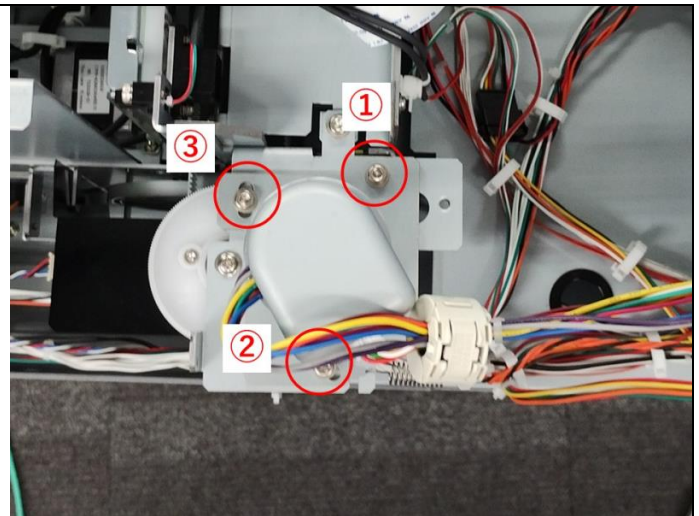
Step 36 / 40

Detail 2: Move the carriage left and right by hand to check that the gears are engaged. Do not use aging for this checking process.



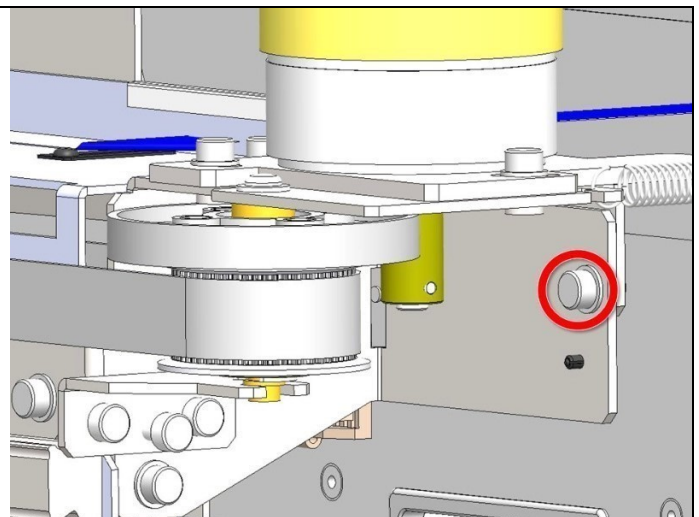
Step 37 / 40

Detail 3: Tighten the screws according to the order shown,



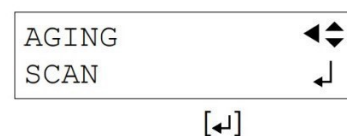
Step 38 / 40

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



Step 39 / 40

Press the [ENTER] key and again perform the aging of the scan motor. If the belt is not in excessive contact with the idle pulley flange, it is proper. So finish this belt position adjustment.



Step 40 / 40

Attach the cover.



XP-640 Linear Encoder Setup

XP-640 Linear Encoder Setup Information

Step 1 / 2

General 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

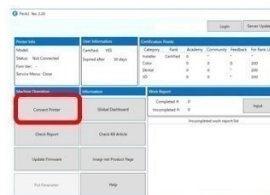
作業内容/Contents of work	時間/Time
リニアエンコーダー位置設定 Linear encoder setup	5 min.

XP-640 Linear Encoder Setup

XP-640 Linear Encoder Setup Procedure

Step 1 / 12

Connect Peck2 to the machine and enter Service Mode.



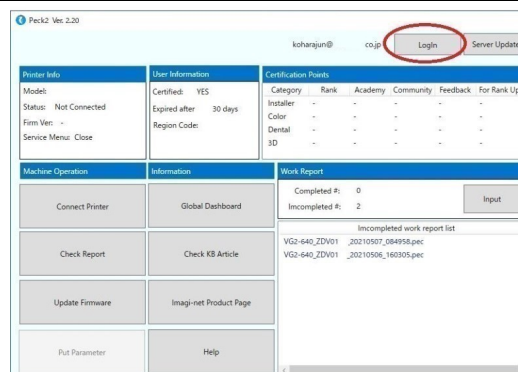
Step 2 / 12

Detail 1: Start Peck2.



Step 3 / 12

Detail 2: Click on the [Login] button.

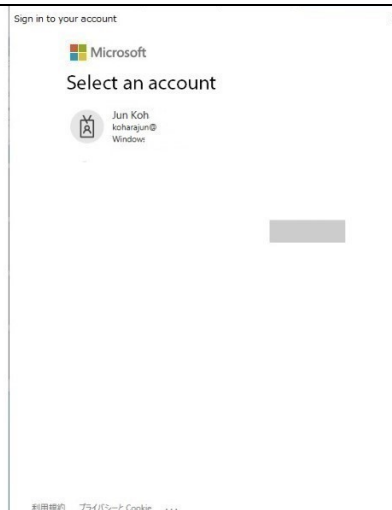


Friday, July 4, 2025 10:23 AM

Language: en

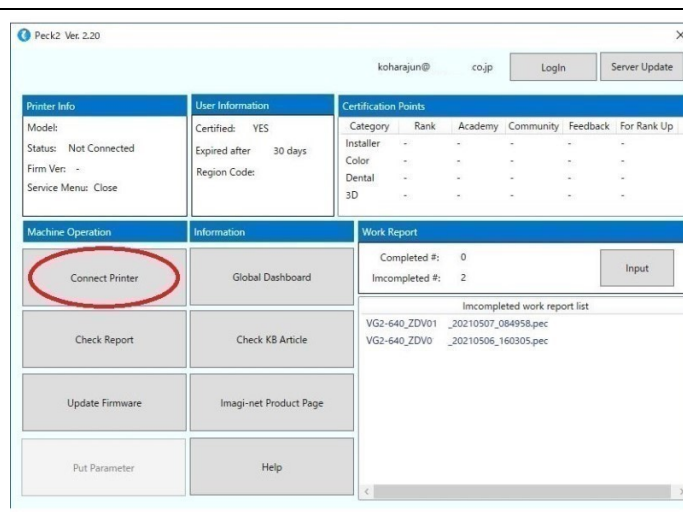
Step 4 / 12

Detail 3: Login with your Imagi-net ID.



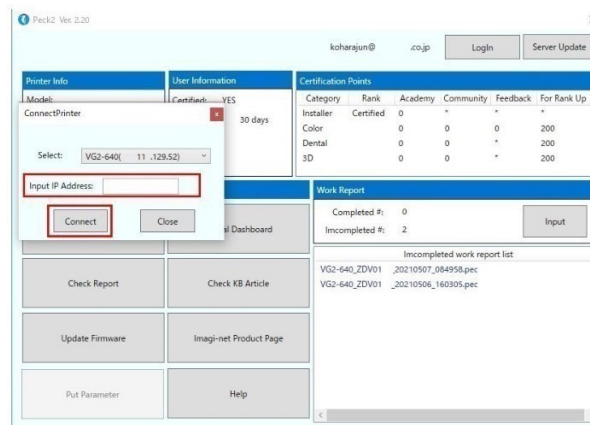
Step 5 / 12

Detail 4: Click on the [Connect Printer] button.



Step 6 / 12

Detail 5: Enter the IP address of the printer you wish to connect to.



Step 7 / 12

Detail 6: When the printer is connected, printer information will be displayed in [Printer Info].

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

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

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

Step 8 / 12

Detail 7: Press [Shift]> [□]+[□]+[□]+[Sub Power] on the panel to enter Service Mode.



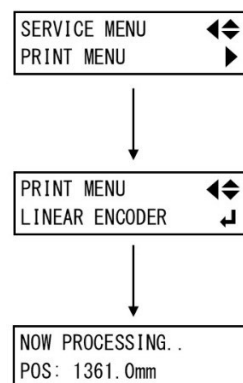
Step 9 / 12

Remove the media if attached and lower the pinch roller.



Step 10 / 12

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



Step 11 / 12

After that one of the following messages will be displayed. If the message is [SETUP COMPLETED], set up is completed normally. If the message displayed is [NG:EXTEND], [NG:SHLINK], [NG:GO BACK] or [NG:BLANK ****. *mm], identify the cause of the problem and take measures before readjustment.

確認/confirm

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

Step 12 / 12

Detail 1: Check these items when messages other than [SETUP COMPLETED] appeared

確認/Confirm

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

XP-640 Feed Calibration

XP-640 Feed Calibration Information

Step 1 / 2

Necessary tools: A minimum setup width of 510 mm is required to run a test print.

一般ツール/General Tool

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

Step 2 / 2

Typical work time

作業時間/Typical work time

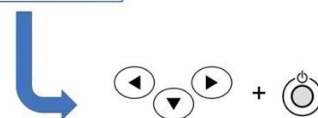
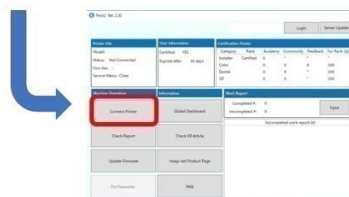
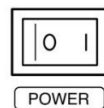
作業内容/Contents of work	時間/Time
距離補正(送り方向) Feed calibration	15 min.

XP-640 Feed Calibration

XP-640 Feed Calibration Procedure

Step 1 / 14

Turn on the power and enter service mode with Peck2.



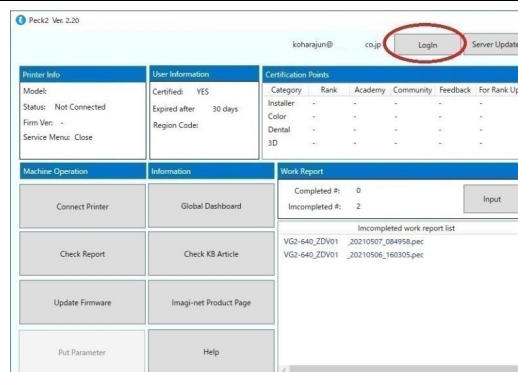
Step 2 / 14

Detail 1: Start Peck2.



Step 3 / 14

Detail 2: Click the [Login] button.

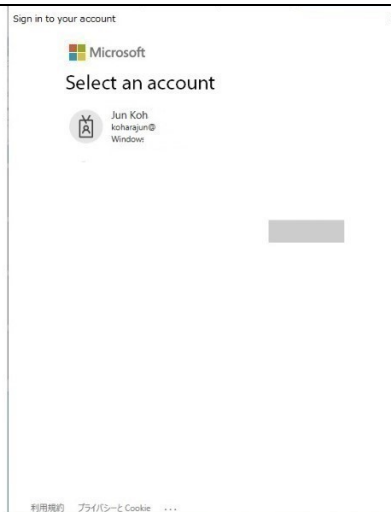


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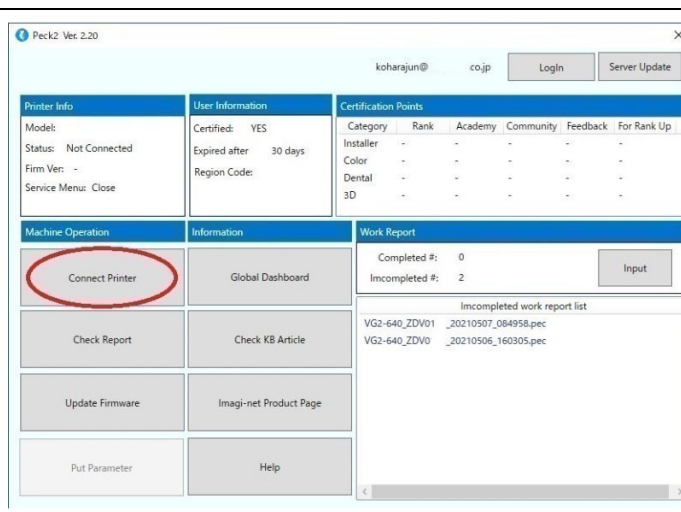
Step 4 / 14

Detail 3: Login with your Imagi-net ID.



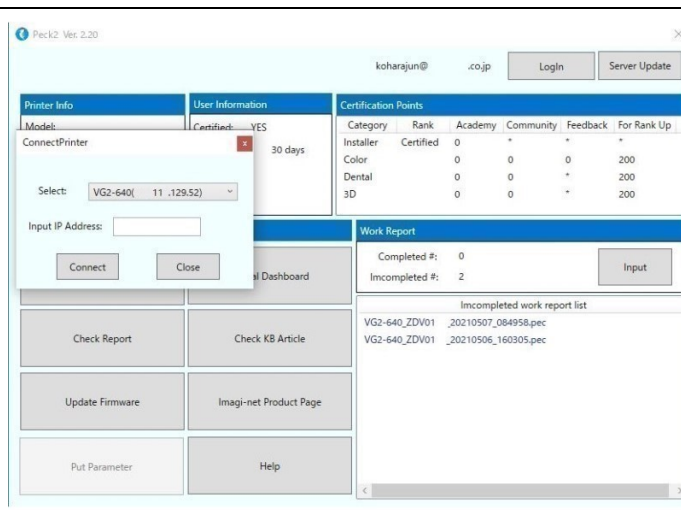
Step 5 / 14

Detail 4: Click the [Connect Printer] button.



Step 6 / 14

Detail 5: Enter the IP address of the printer you wish to connect to.



Step 7 / 14

Detail 6: When the machine is connected to the printer, printer information will be displayed in [Printer Info].

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

Printer Info		User Information		Certification Points					
Model:	VG2-640_ZDV01	Certified:	YES	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			

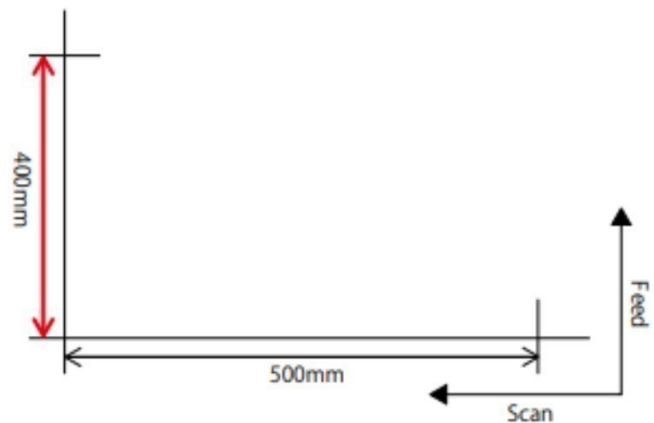
Step 8 / 14

Detail 7: Press [Shift]> [□]+[□]+[□]+[Sub Power] on the panel to enter the service mode.



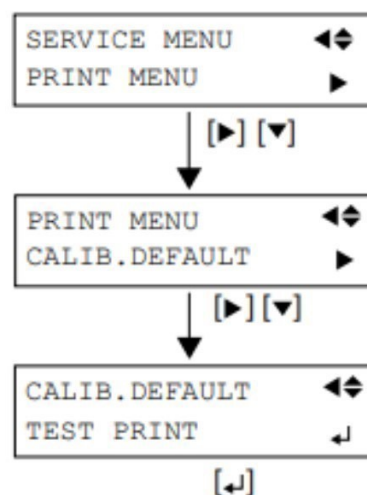
Step 9 / 14

Setup width must be at least 510 mm for performing test print.



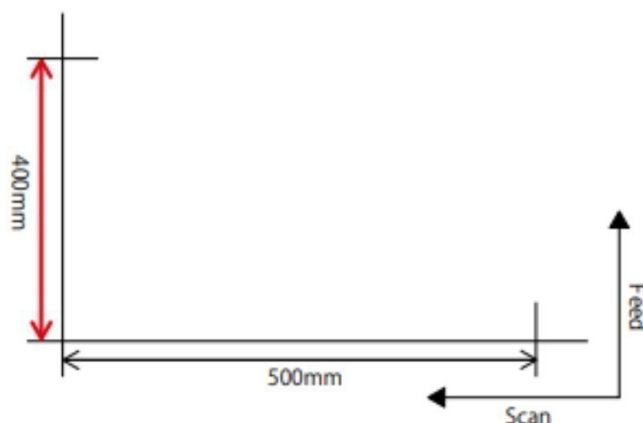
Step 10 / 14

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



Step 11 / 14

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



Step 12 / 14

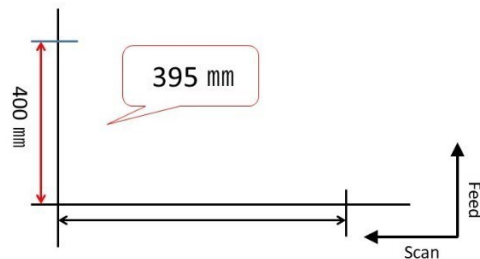
Calculate the correction value using the formula shown.

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

Step 13 / 14

Detail 1: Example

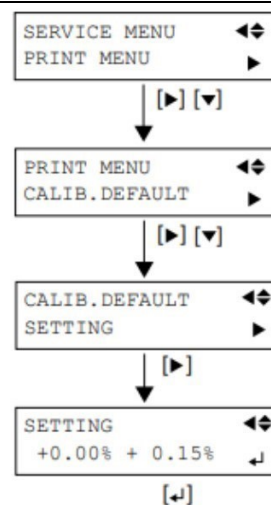
e.g.



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

Step 14 / 14

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



XP-640 Wiper Position Adjustment

XP-640 Wiper Position Adjustment

Information

Step 1 / 2

General Tools

一般ツール/General Tool

無し None	
------------	--

特殊治具/Special Tools

無し None	
------------	--

Step 2 / 2

Typical Work Time

作業時間/Typical work time

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

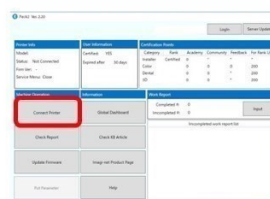
XP-640 Wiper Position Adjustment

XP-640 Wiper Position Adjustment

Procedure

Step 1 / 13

Connect Peck2 to the machine and enter service mode.



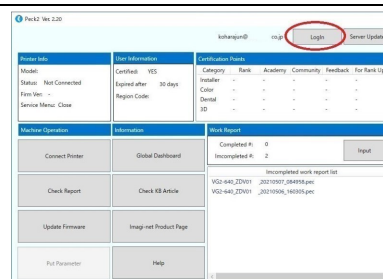
Step 2 / 13

Detail 1: Start Peck2



Step 3 / 13

Detail 2: Click the [Login] button.

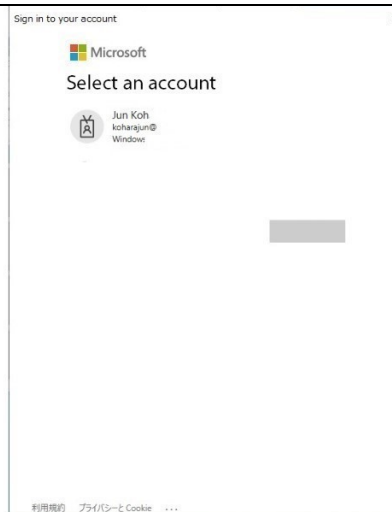


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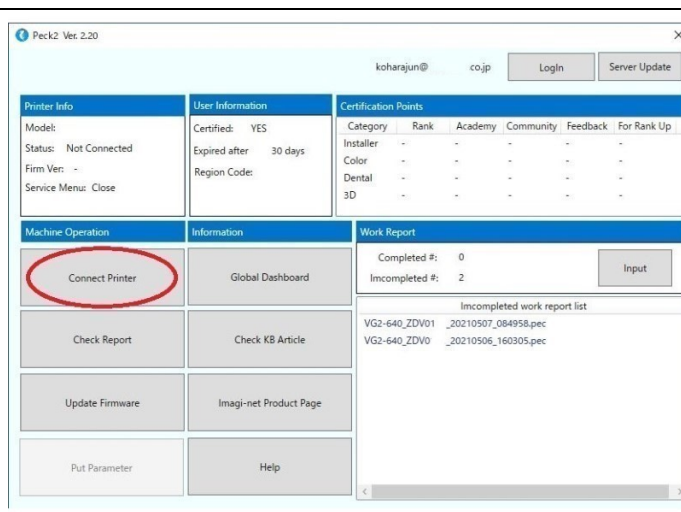
Step 4 / 13

Detail 3: Log in with your Imagi-net ID



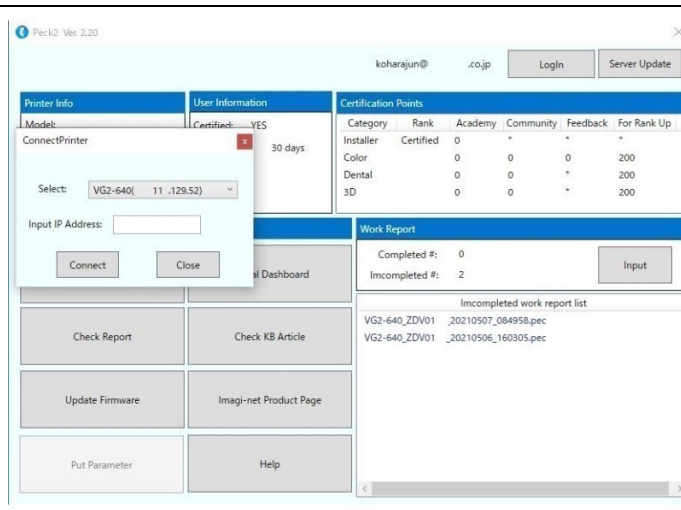
Step 5 / 13

Detail 4: Click the [Connect Printer] button.



Step 6 / 13

Detail 5: Enter the IP address of the device you wish to connect to.



Step 7 / 13

Detail 6: When the printer is connected, the printer information will be displayed in [Printer Info].

Peck2 Ver. 2.20

koharjun@ .co.jp Login Server Update

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

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

Imcompleted work report list

VG2-640_ZDV01: _20210507_084958.pec

VG2-640_ZDV01: _20210506_160305.pec

Step 8 / 13

Detail 7: Press [Shift] > [□]+[□]+[□]+[Sub Power] on the panel to enter the service mode.



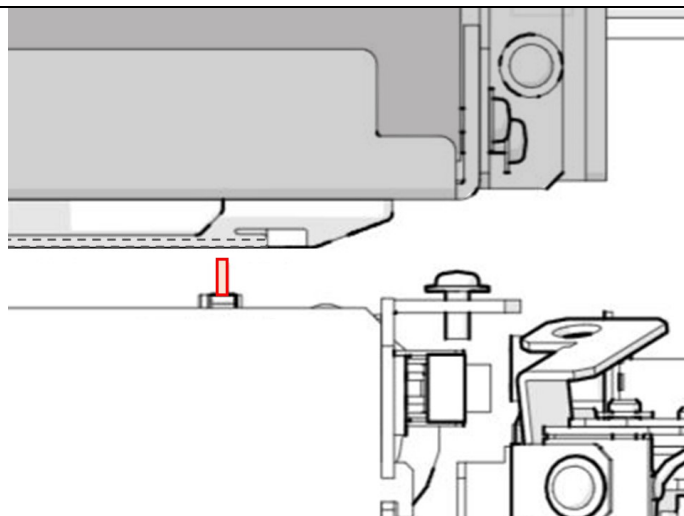
Step 9 / 13

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

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

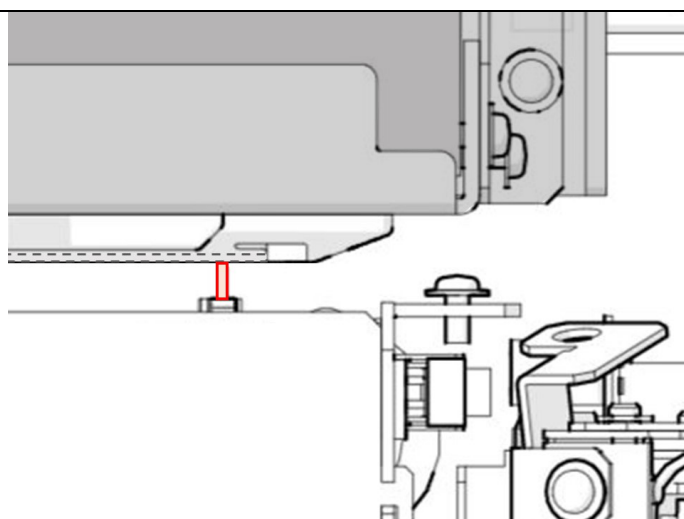
Step 10 / 13

Check the position of the wiper.



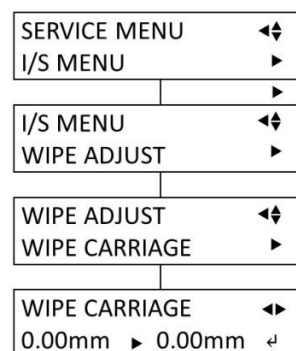
Step 11 / 13

Press the [□] key to raise the wiper and press the [ENTER] key when the tip of the wiper touches the print head surface. *Pressing the [□] key moves the wiper to the initial position.



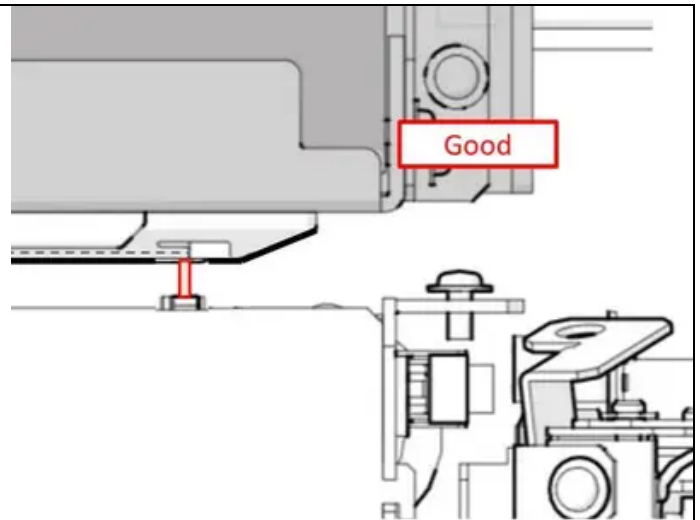
Step 12 / 13

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



Step 13 / 13

Press [] [] keys to move the print head carriage and press [ENTER] key when the wiper overlaps the right edge of the jam guard on the right print head.



XP-640 Multi Sensor Adjustment

XP-640 Multi Sensor Adjustment

Information

Step 1 / 2

Necessary tools: Recommended media are IJ5331, IJ1220, LLSPEX, 3164G, and SPM.

一般ツール/General Tool

白いステッカーメディア (IJ5331推奨)
White sticker media
(IJ5331 recommended)



Step 2 / 2

Typical Work time

作業時間/Typical work time

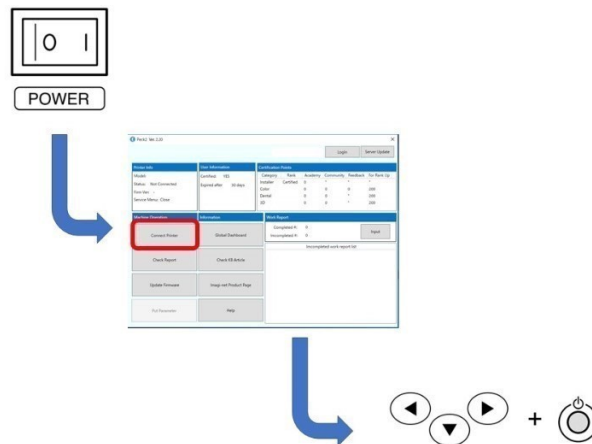
作業内容/Contents of work	時間/Time
マルチセンサー調整 Multi sensor Adjustment	5 min.

XP-640 Multi Sensor Adjustment

XP-640 Multi Sensor Adjustment Procedure

Step 1 / 21

Connect the machine to Peck2 and enter the service mode.



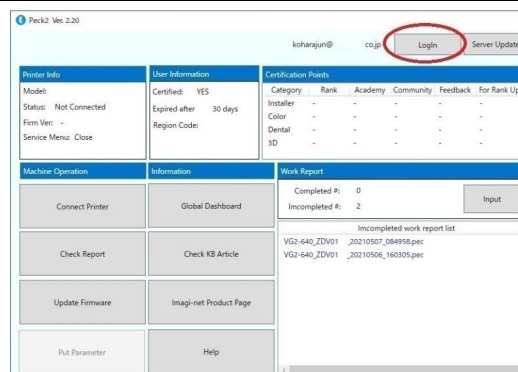
Step 2 / 21

Detail 1: Start Peck2.



Step 3 / 21

Detail 2: Click on the [Login] button.

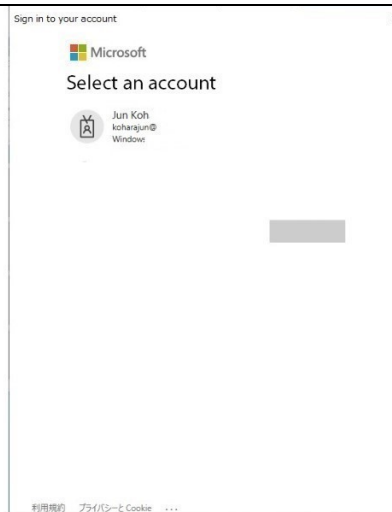


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Language: en

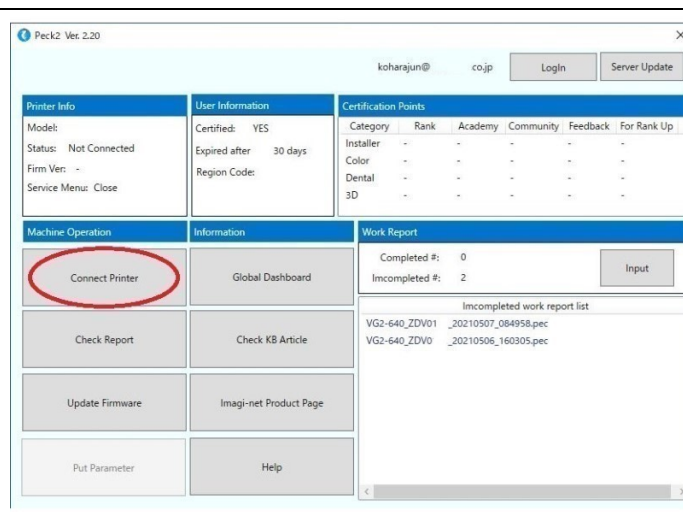
Step 4 / 21

Detail 3: Login with your Imagi-net ID.



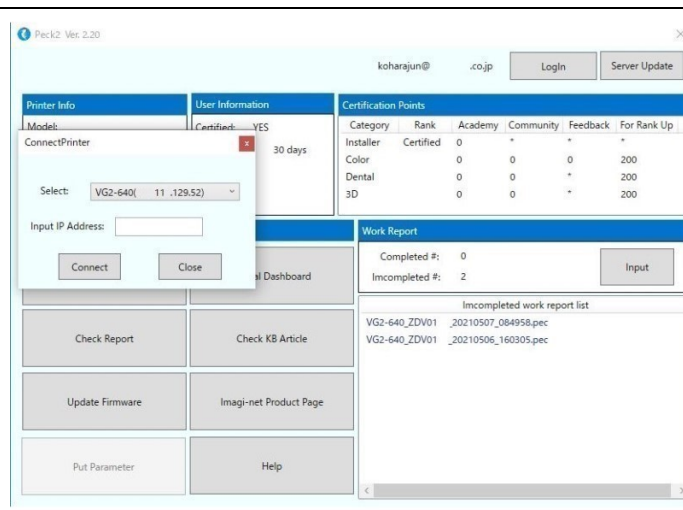
Step 5 / 21

Detail 4: Click on the [Connect Printer] button.



Step 6 / 21

Detail 5: Enter the IP address of the device you wish to connect to.



Step 7 / 21

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

Peck2 Ver. 2.20

koharajun@ .co.jp Login Server Update

Printer Info		User Information		Certification Points				
Model: VG2-640_ZDV01	Certified: YES	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 / 21

Detail 7: Press [Shift]> [□]+[□]+[□]+[Sub Power] on the panel to enter the service mode.



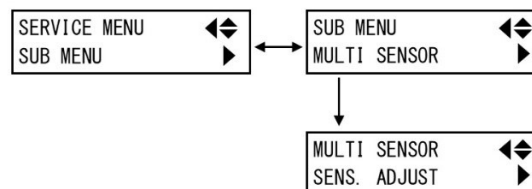
Step 9 / 21

Attach the white glued PVC to the machine and set it up.



Step 10 / 21

Select [SERVICE MENU] > [SUB MENU] >
[MULTI SENSOR] > [SENS. ADJUST].



Step 11 / 21

Adjust the LED intensity so that the
light-receiving voltage is $0.50\text{ V} \pm 0$.
Lowering the value lowers the
light-receiving voltage, and raising the
value raises it.



Step 12 / 21

Detail 1: When the voltage is low,
increase the value in lower row.



Step 13 / 21

Detail 2: When the voltage is high, lower the value in the lower row.



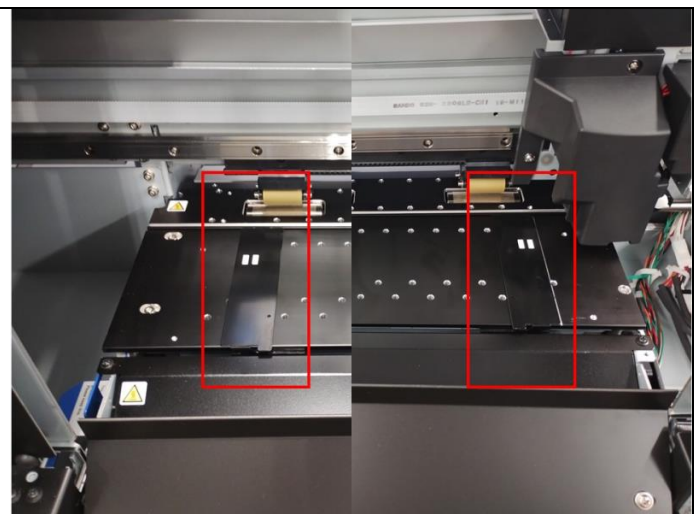
Step 14 / 21

Remove the media.



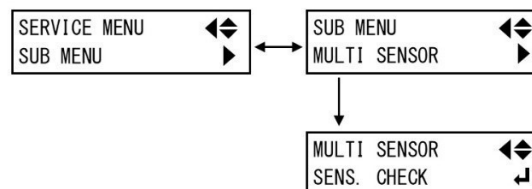
Step 15 / 21

Check the bed and media clamps using the multi sensor. Place the media clamps at the left and right ends of the bed as far as possible.



Step 16 / 21

Select [SERVICE MENU] > [SUB MENU] > [MULTI SENSOR] > [SENS. CHECK].



Step 17 / 21

Check if [EDGE 10] is displayed at the top of the panel and [SLIT OK] at the bottom. If it looks like this, the detection has been done correctly and the adjustment is complete.



Step 18 / 21

Detail 1: Upper row: Number of detected edges, Lower row: Status of white slits in the media clamps



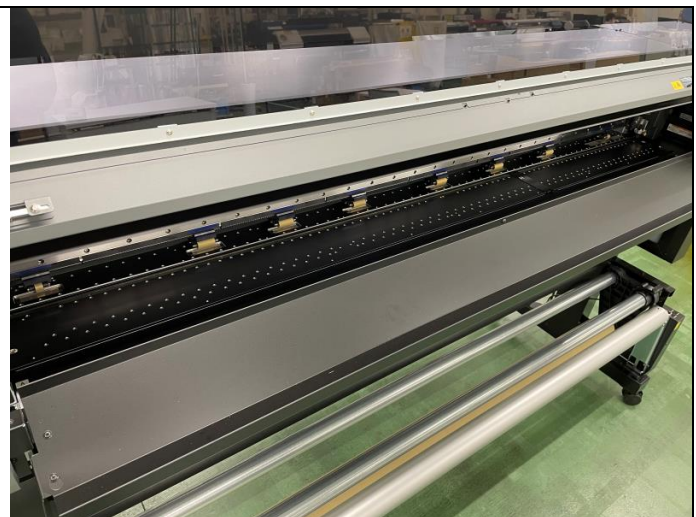
Step 19 / 21

If the display is different from the previous page, check for items in the following pages and perform adjustment again.



Step 20 / 21

Detail 1: 1. Check the platen and media clamps for foreign objects, scratches, dirt, etc. 2. Check the media clamps for deformation. 3. Check if the multi sensor is properly installed.



Step 21 / 21

Detail2: □C]: If the number of black and white edges is other than the number of slits (10 slits) [L]: If the length of the left slit exceeds the range of 4 ± 1 mm [R]: If the length of the right slit exceeds the range of 4 ± 1 mm

