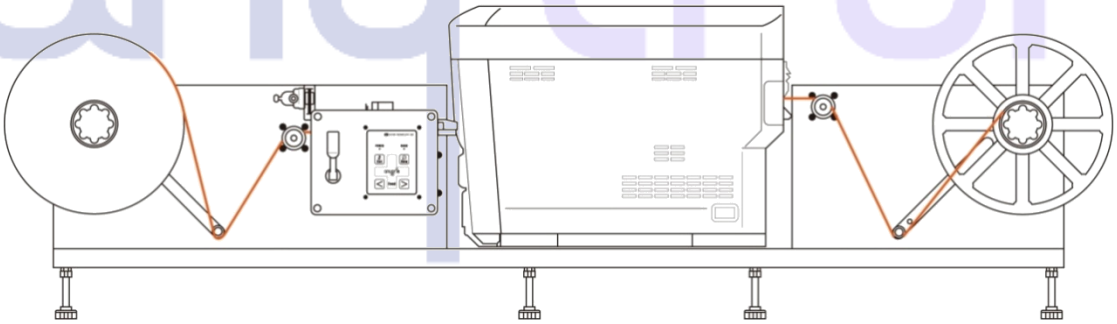
VALLOY Incorporation

Any-001 Service Manual

TROUBLE SHOOTING

Ver 1.0.6 (02-Jan-2013)



Valloy Incorporation

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1. Product Composition

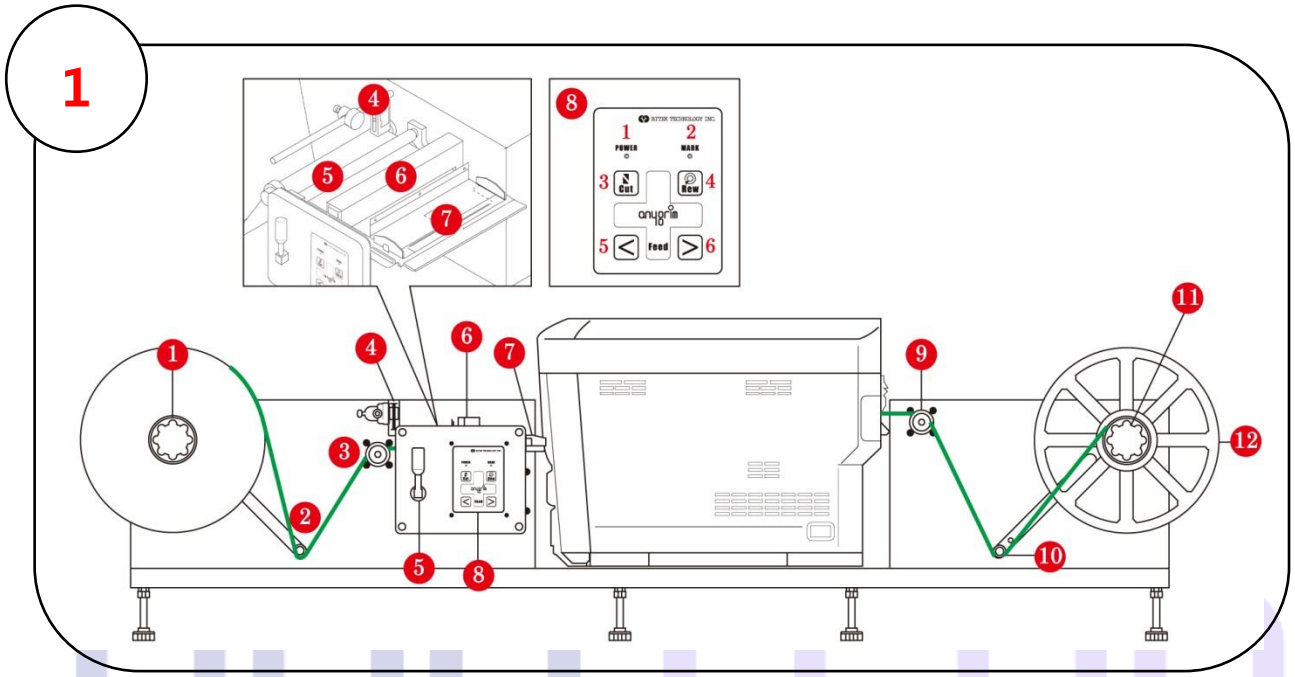
1.1 Product Specification

Digital Press		
Print speeds	Plain paper 210mm x 297mm(8.26 x 11.7 inches)	(Max)up to 9m/m
Operating Environment (cut paper)	Temperature	50°F - 89.6°F / 10℃ - 32℃
	Humidity	20 – 80% RH
Operating Environment (continuous)	Temperature	62.6°F – 80.6°F / 17℃ - 27℃
	Humidity	40 - 60% RH
Media weight		64 – 250 gsm
Warm-up time		35 sec
First Page printing Time		9 sec
Resolution		600x600dpi / 600x1200dpi
Print length		656feet / 200meter
Paper size	Min.	76.2 x 127mm(3 x 5inches)
	Max.	215mm x 121.92m(8.5 x 4800inches)
	Continuous Papers width	215mm (8.5inches)
Margin of error	Cut sheet	± 0.4mm (±0.016inches)
	Continuous paper – No adjustment	Beginning 3M ±0.8mm (±0.031inches) After 3M ±0.2mm (±0.008inches)
	Continuous paper - Adjustable	Beginning 3M ±0.7mm(±0.027inches) After 3M ±0.4mm (±0.016inches)
Standard Memory Configuration		256MB
HDD		160GB
Aftermarket supplies	RFID lock-out for toner	Yes
	Image drum with unique lockouts	Yes
Printer Language		PCL5c
Size (LxWxH)		55 x44 x39 (21.5x17.3x15.3 inches)
Weight		28kg (61.7lbs) -supplies included
Interface		High-speed USB/Ethernet
Power Requirement		AC 100~240, 50/60Hz
SUPPLIES(8.26 x 11.7inch)		
Toner Cartridge Life	Mono	11,000 pages
	Color	11,500 pages
Image Drum Life		Continuous printing :28,000 pages
Transfer belt		60,000 pages
Fuser unit		60,000 pages

PRESS STATION		
Dimensions(LxWxH)	38x162x58cm(15 x 64 x 23 inches)	
Maximum Roll Diameter	30 cm (11.8 inches)	
Recommended Roll width	21.5cm (8.5 inches)	
Weight	84kg (185lbs)	
Power Requirement	AC 100~240, 50/60Hz	
Operating Environment	Temperature	10℃-32℃ (50°F-89.6°F)
	Humidity	20 – 80% RH
Storage and movement Environment	Temperature	-20℃- 65℃ (-4°F - 149 °F)
	Humidity	10 ~ 90% RH
Feeder and Rewinder system	Input roll maximum diameter: 300mm (11.8″). core inside diameter: 76.2mm (3″). Maximum input roll weight: 10kg (22lbs)	
Auto cut	Automatically cut after printing job. Also manually cut.	
sheet feeding	sheet feeding and printing are available	
Pre-cut label	printing on pre-cut label and pre-printed label is available	
S/W	Anytron RIP S/W for Windows, easy to use graphic user interface (in Korea)	
Network&Protocol	For Installation and management of HTTP(B411dn) Printer and Network card, supporting the main network protocol with Internal web server and Ethernet card	
Operating Systems	Windows 2000 / XP Home / XP Professional(32 bit & 64 bit) / Server 2003(32 bit & 64 bit) / Server 2008(32 bit & 64 bit) /Server 2008 R2(64 bit) /Vista(32 bit & 64 bit) /Windows7(32 bit & 64 bit); Mac OS 10.3.9~10.6.2	
Network and Security	IPv6, 802.1x certificated, SNMPv3, SSL/TLS, HTTPS code, Secure Erase3, Data code3, MAC filtering, IP filtering , IPSec	
Certifications	KCC,FCC Part15 subpart B ClassA, CE (EMC, LVD)	

1.2 Name and Function of Each Part

1.2.1 Press station



No.	Name	Description
1	Press Station	Equipment to control the process of hanging, feeding roll paper and winding it back after printing.
1-1	Unwinder	Part to mount roll paper. Unwinder releases paper to feed the printer, and allows the paper to keep constant tension.
1-2	Unwinder Tension Bar	Sensor bar for feeding paper. When paper is fed to the printer, the tension bar moves up by tension. At this time, the sensor works to rotate the unwinder and release the roll to maintain the paper's tension.
1-3	Shaft No.1	Shaft (axis) for feeding paper
1-4	Sensor	Sensor to support precut labels
1-5	Feeding Roller	Roller to insert paper into the printer while printing and retaining after printing for subsequent refeeding.
1-6	Cutter	Cuts continuous paper upon completion of printing
1-7	Feeding Guide	Guide for paper moving from the feeding roller to the printer. Evenlyaligns paper horizontally during printing.
1-8	Button Panel	Front panel with 2 LEDs and 4 buttons
	1. POWER LED	LED to check on/off status of the station
	2. MARK LED	LED to check whether the sensor detects the marks in the sensing

		mode
	3. Cut Button	Button for operating the cutter 6
	4. Rew Button	Button for operating the rewinder 11
	5. Feed(<) Button	Button for operating the feeding roller 5 (moving paper backward)
	6. Feed(>) Button	Button for operating the feeding roller 5 (moving paper forward)
1-9	Shaft No.2	Shaft (axis) for feeding paper to be printed
1-10	Rewinder Tension bar	Sensor bar for rewinding. When paper connected to the rotating rewinder is wound up, the tension bar moves up by the tension, at this time the rewinder's rotating speed is reduced to allow paper to keep a constant tension.
1-11	Rewinder	Part to rewind printed paper
1-12	Rewinder guide	Guide to uniformly wind paper on the rewinder
1-13	Power Button	On/off button for the station

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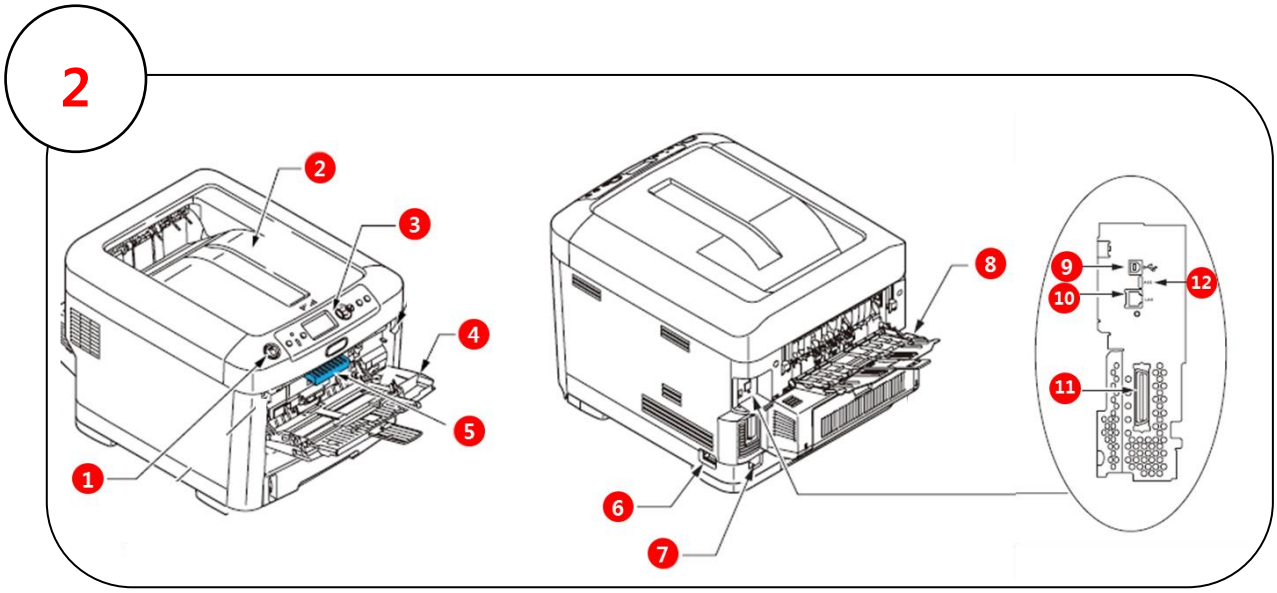
1.2.2 Digital printer



No	Name	Description
2	Digital Printer	Printing device
2-1	Top Cover Release Button	The top cover is opened by pressing the button.
2-2	Top Cover	The cover is opened by pressing the button 1.
2-3	Operator Panel	Menu-based control and LCD panel
2-4	Multi-purpose Tray	Tray for using continuous media
2-5	Front Cover Release Lever	The front cover is opened by pulling the lever.
2-6	PowerSwitch (On/Off Switch)	Printer power switch
2-7	AC Power Socket	Connection for printer power cable
2-8	Rear stacker	Tray that accepts and stacks printed continuous media as it is released.
2-9	USB interface	Interface that directly connects a PC with the printer
2-10	Network Interface	Interface to use the printer via a network
2-11	ACC interface	
2-12	Parallel interface	

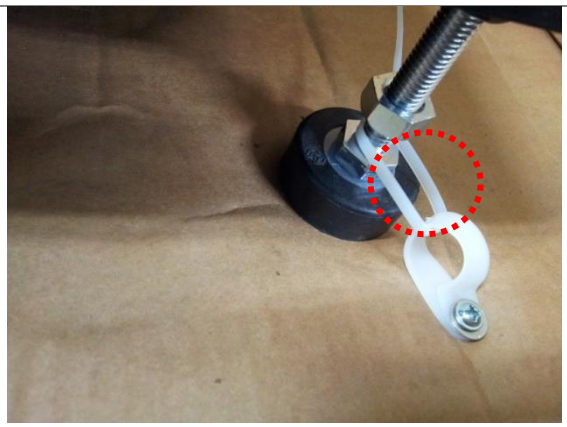
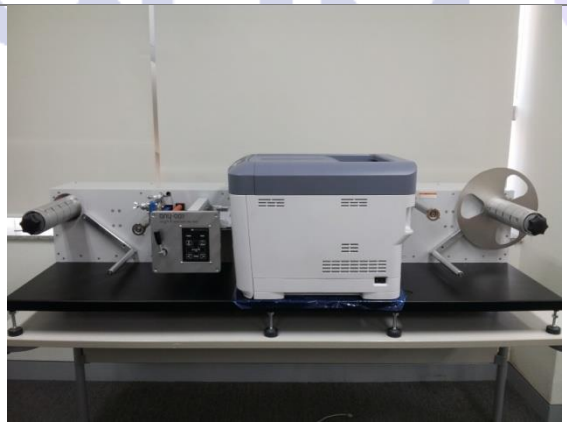
2. Unpacking and Installation

2.1 Unpacking

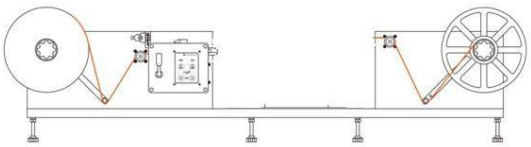
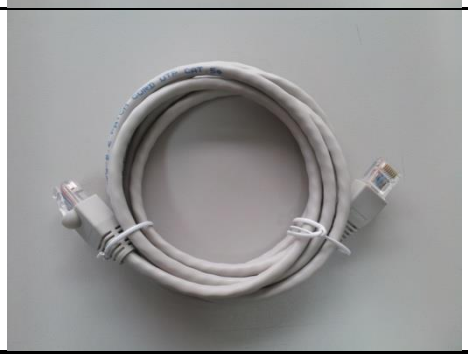
2.1.1How to unpack

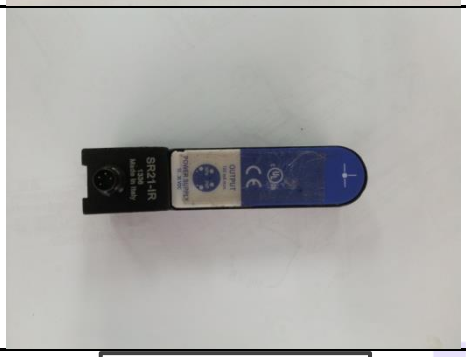
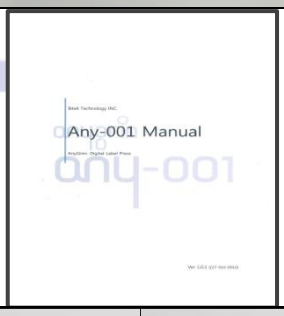
1.		Remove the tie-down which secures the pallet and box using a cutter.
2.		Remove the vinyl of the any-001 box.
3.		Open the top cover of the any-001 packing box.

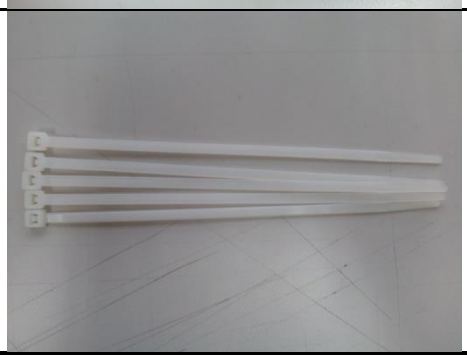
4.		Remove the left, right, top and bottom side guides of the any-001 packing box by lifting them up as shown in the photograph.
5.		The any-001 is fixed with tie-downs, so remove the tie-downs using a cutter.
6.		Remove the left and right fixed urethane foam of the printer. (Grab the urethane foam and remove it by hand.)
7.		Check the components. (Please check the **2.1.2 Components list.**)

8.		Bottom of the Any-001 is fixed to the box. Remove the fixed part.
9.		Loosen the fixing bolts fastened to the left and right tension bars of the any-001 by turning them counterclockwise. (These fixing bolts are used to prevent the tension bars from being twisted during transportation.)
10.		Unpacking is completed.

2.1.2Packing list

No.	Photograph	Item	Q'ty(EA)
1.		Press Station	1
2.		Digital Printer	1
3.		Power Cable	2
4.		USB Cable	1
5.		Ethernet Cable (Direct Cable)	1

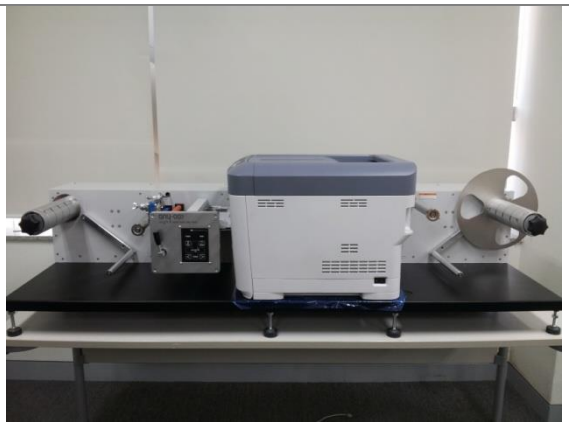
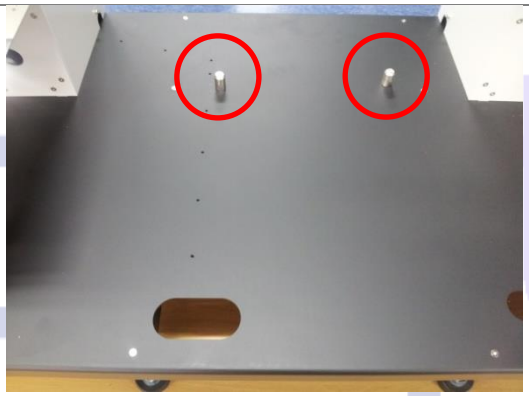
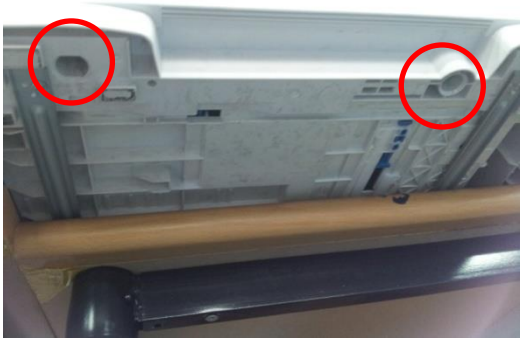
6.		Optical Sensor (Black Mark)	1
7.		Optical Sensor (Gap)	1
8.		Manual	1
9.		C,M,Y,K Toner set	1
10.		Wrench set	1

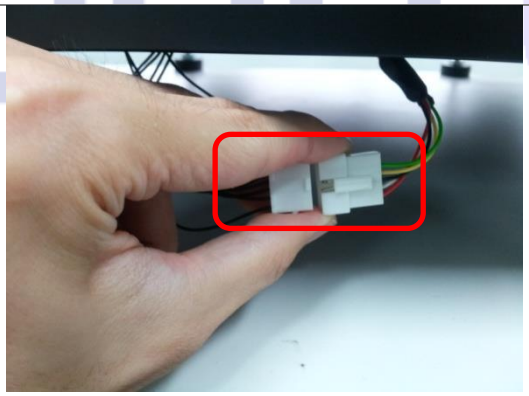
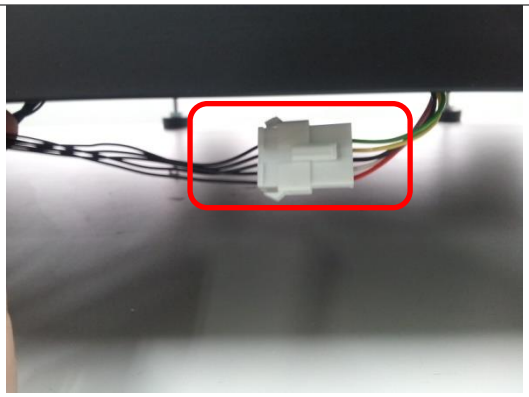
11.		Sample media (Art Paper)	1
12.		RIP S/W CD	1
13.		USB Dongle	1
14.		Cable Tie	5

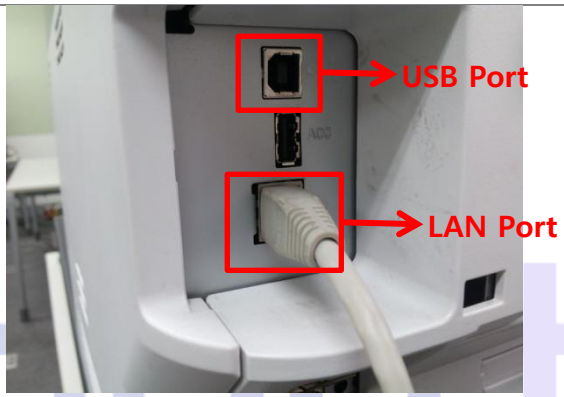
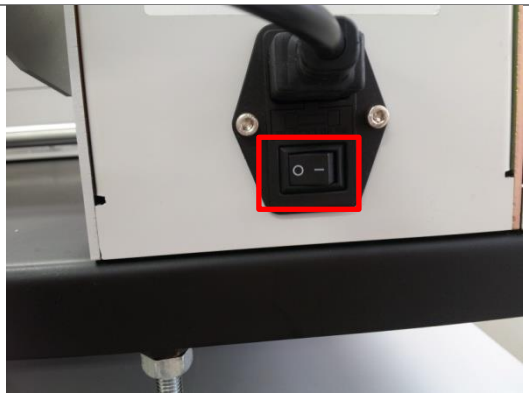
※ The actual product may differ from the image.

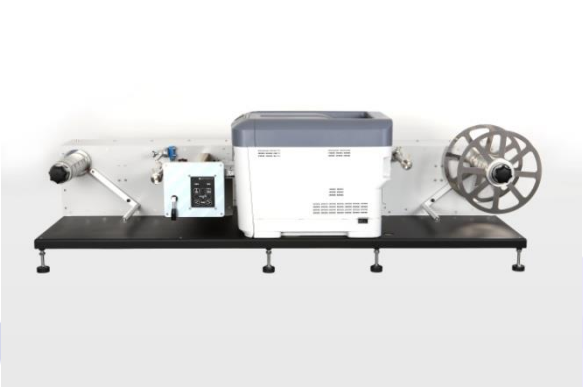
2.2 Installation

2.2.1Connection between the printer and the press station

1.		Put the any-001 press station on the table. (the weight of station is about 84 kg(185lbs), and printer is about 30kg(62lbs). Four people are required to lift the any-001)
2.		Check the locations of two fixing bars of the station.
3.		These are two holes at the bottom surface of the printer are used to fix the printer to the station.

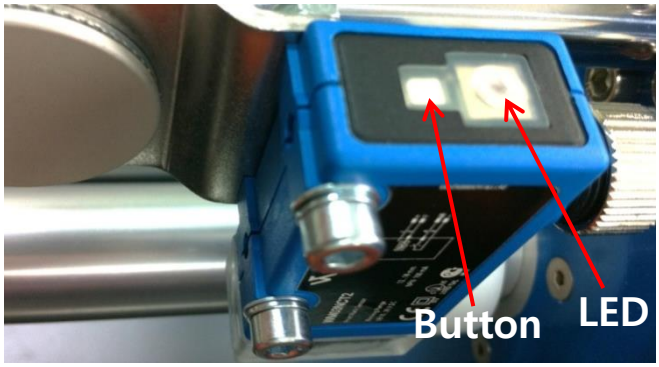
4.		Put the interface cable at the bottom of the printer into the rectangular hole of the station shown in the photograph below. ***※ Be careful lest the cable should be damaged.***
5.		Pass the interface cable of the printer through the rectangular hole of the station.
6.		Connect the cable from the bottom of the printer to the cable of the station as shown in the photograph.
7.		This illustrates what the printer cable and the press station cable look like after being connected to each other.

8.		Connect the power cable of the printer. ※ ***Please only connect the power cable after accurately checking the input voltage.***
9.		Connect the LAN cable or the USB cable in accordance with the installation environment.
10.		Connect the press station power cable.
11.		Turn on the press station power by pressing the POWER button.

12.		Turn on the digital printer power by pressing the POWER button.
13.		Check whether the equipment is normally operating.

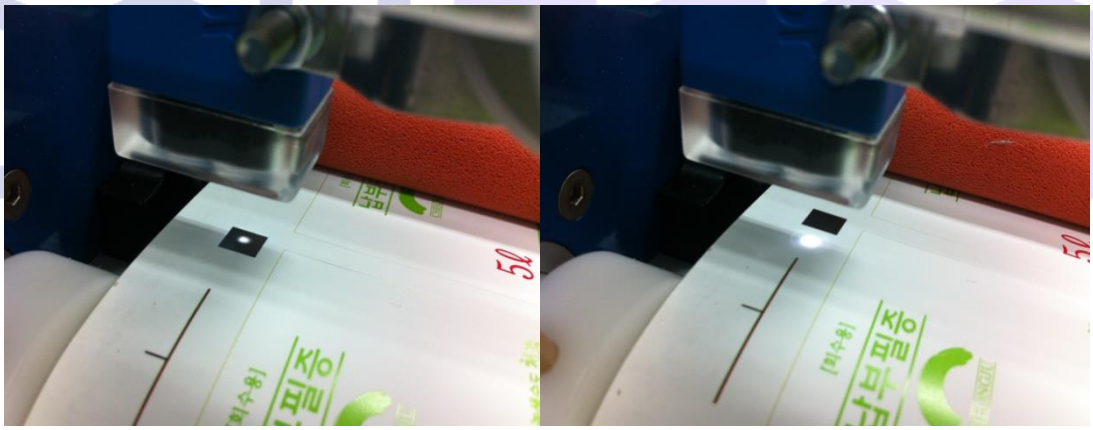
2.2.2 Sensor setup

2.2.2.1Black mark sensor setup



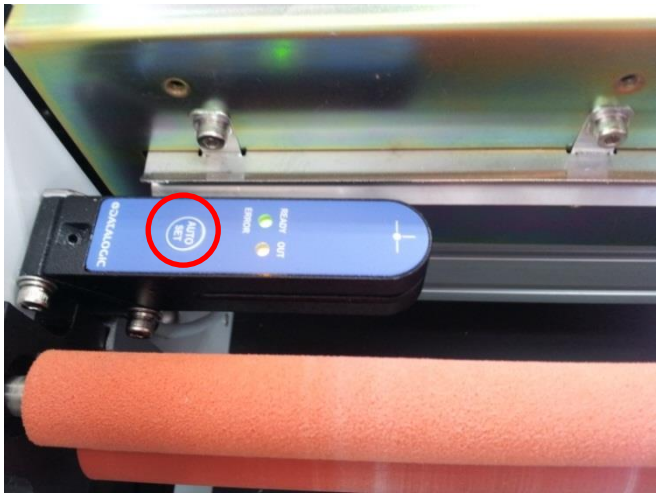
① When the button is given a long, two-second press the LED flickers.

② Press the button once on the black mark and once on the white paper as shown in the photograph, then the setting of the sensor is completed.



③ To check whether the setting is correctlycompleted, move the paper forward and backward so that the black mark can be sensed.

2.2.2.2 Gap sensor setup



① Press the gap sensor on the part of the paper where there is no gap.

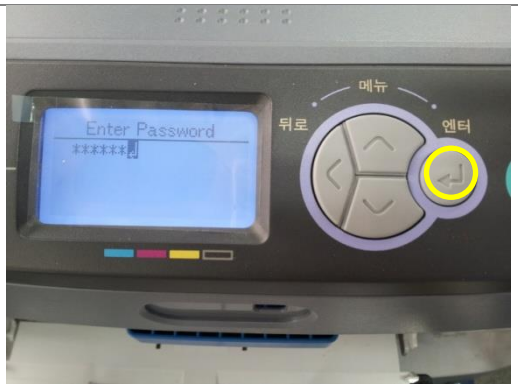
② When the LED of the gap sensor flickers, press the button once on the part where there is no gap.

③ After putting the gap sensor over the part of the paper where there is a gap, press the button once.

④ To check whether the setting is correctly completed, move the paper forward and backward so that the black mark can be sensed.

At this time, if the LED light of the sensor comes on above the black mark or a gap, it means that the setting has been normally completed, which can be also checked by the MARK LED light on the panel at the front of the equipment.

2.2.3 IP addresssetup

1.		Click the [MENU] button.
2.		Move down using the arrow key.
3.		Select [Admin Setup] and then click [ENTER].
4.		The password is "aaaaaa". Input "aaaaaa" and then click [ENTER]. ※ *The password can be changed in [Change Password] menu of [Admin Setup] menu.*

5.		Menus are displayed. Move down using the arrow key.
6.		Select [IP Address Set] and then click [ENTER].
7.		Select either [Manual] or [Auto]. [Manual] enables you to set the IP manually, while [Auto] is an automatic IP setup option. To set the IP manually, select [Manual] here.
8.		After selecting [Manual], the Network setup screen will appear. Select [IPv4 Address] and then click [ENTER].

9.		Enter the IP address to be used (ex: 192.168.0.6).
10.		Select [Subnet Mask] and then click [ENTER].
11.		Enter the subnet mask to be used (ex: 255.255.255.0).
12.		Select [Gateway Address] and then click [ENTER].

13.		Enter the [Gateway Address] to be used (ex: 192.168.0.1).
14.		The IP address setting is completed.

2.2.3.1How to check IP address

1		When the printer power is turned on, a message which reads 'Ready To Print' is displayed on the printer LCD window.
2	 ①	① ~⑤: Check the IP Address as shown in the photographs.

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② 	③ 
④ 	⑤ 

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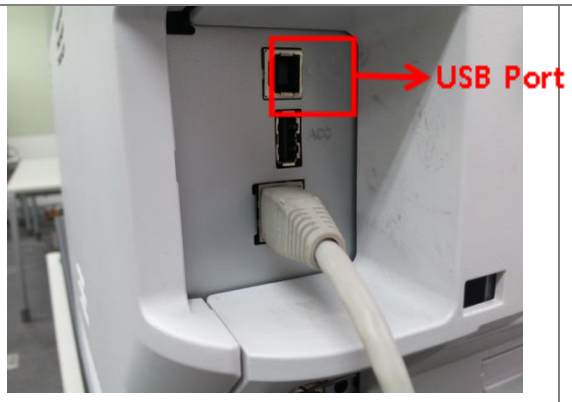
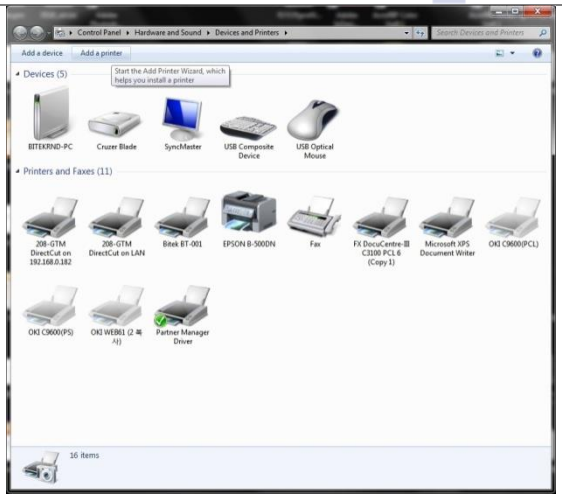
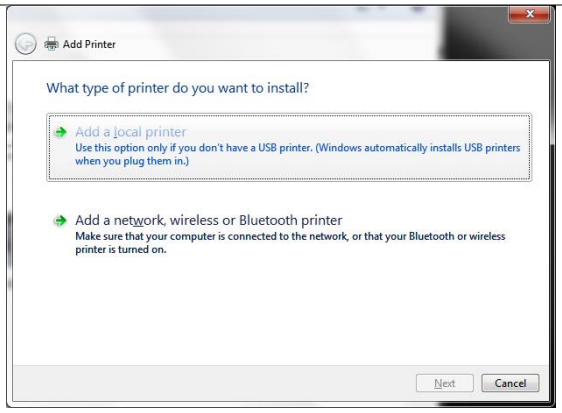
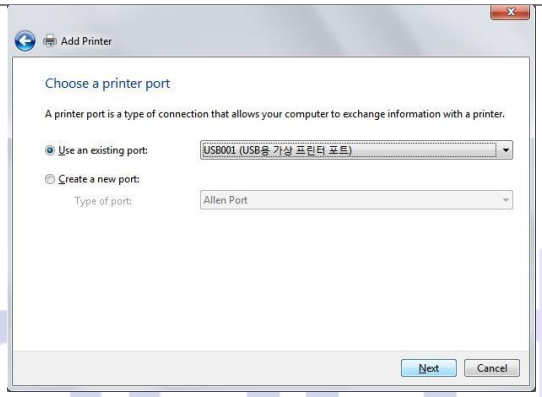
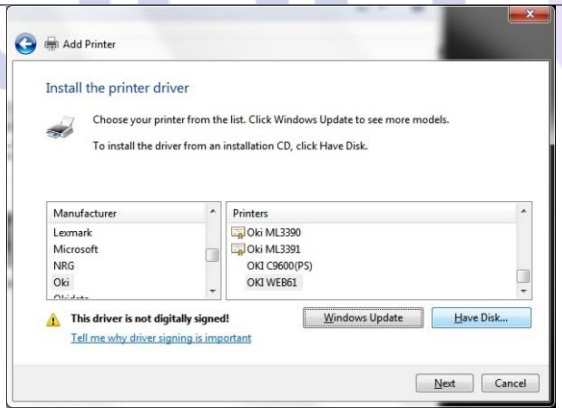
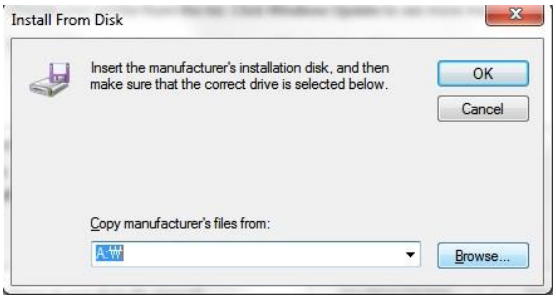
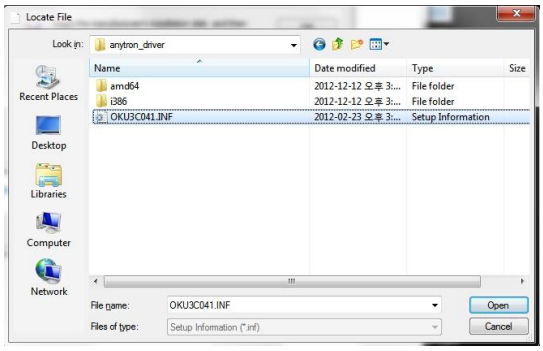
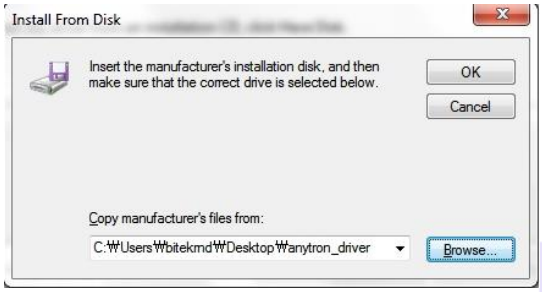
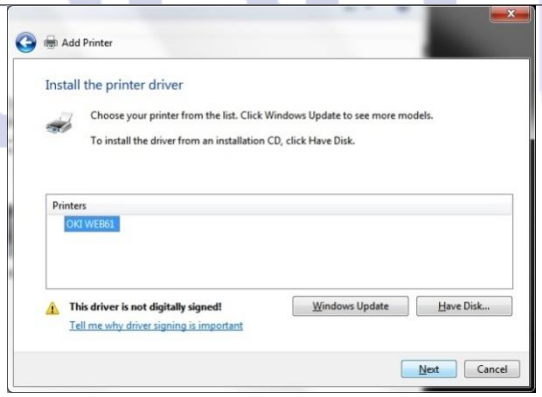
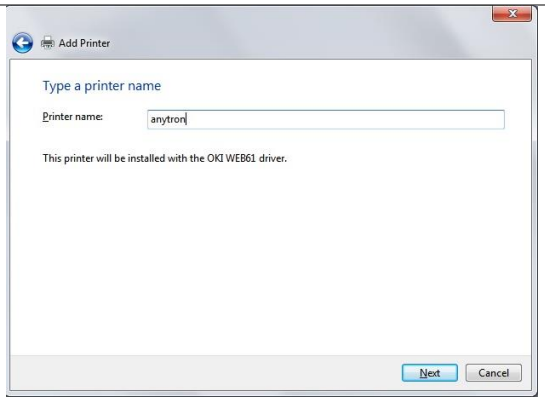
2.3 S/W installation

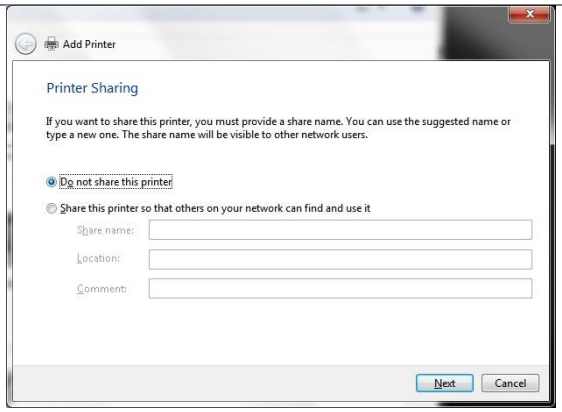
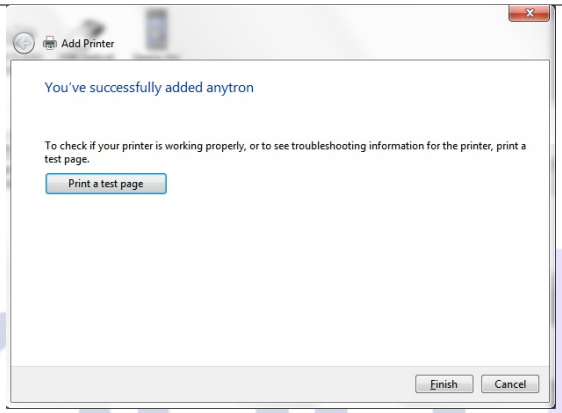
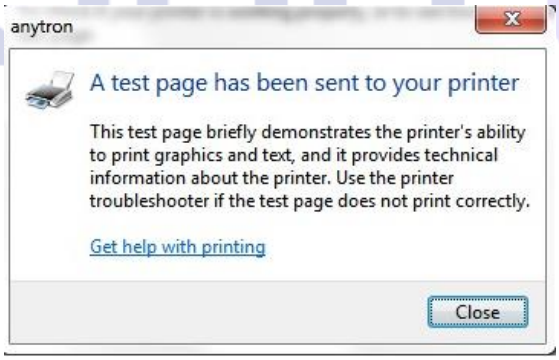
2.3.1 Printer driver installation

2.3.1.1 Installation using USB port

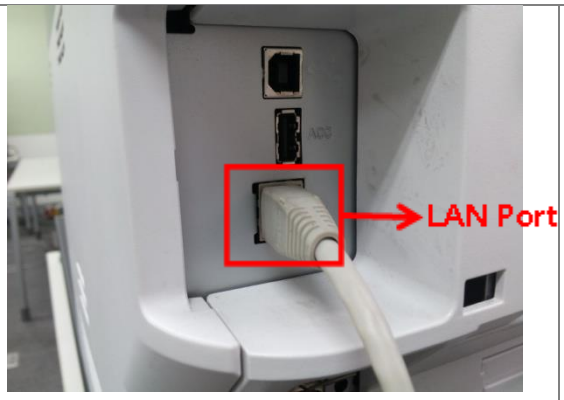
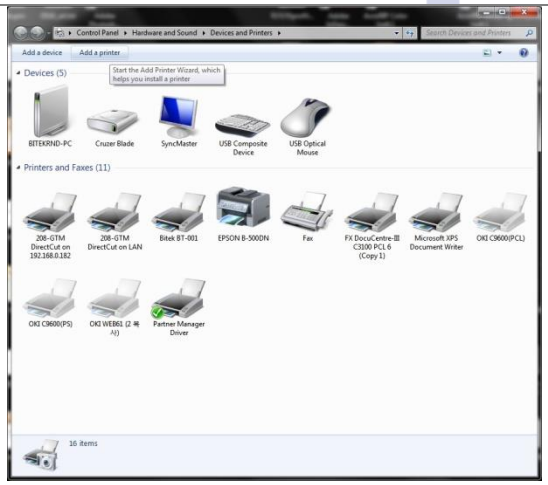
1.		Turn on the power of the printer and connect the USB cable to USB port. Connect the other end of the cable to the PC.
2.		Select [Device and Printer] on the start menu.
3.		Click [Add a Printer] on the activated window.

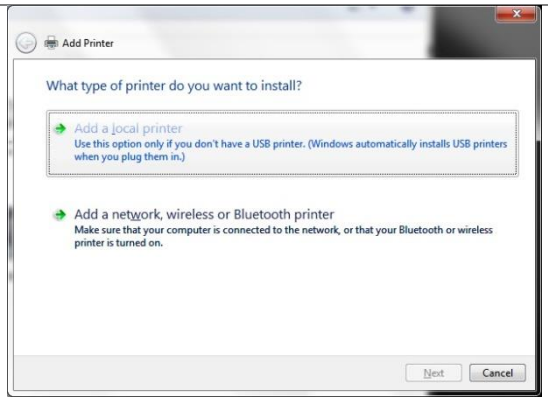
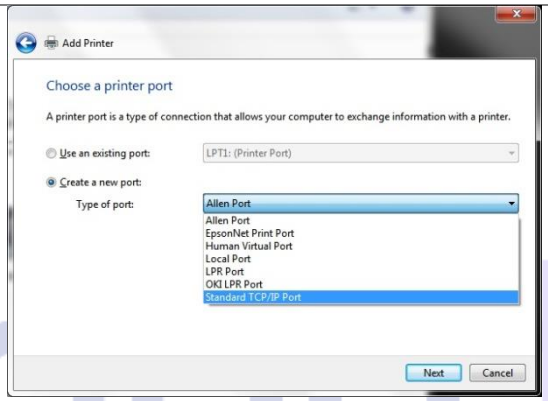
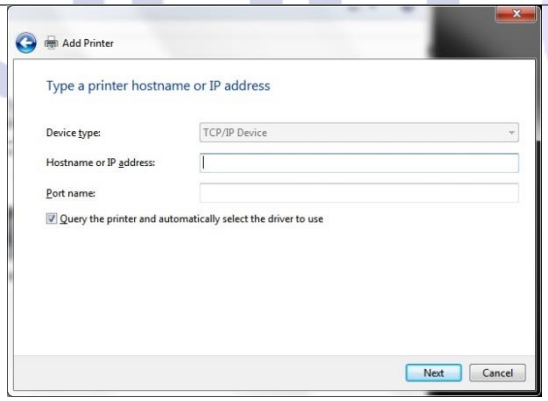
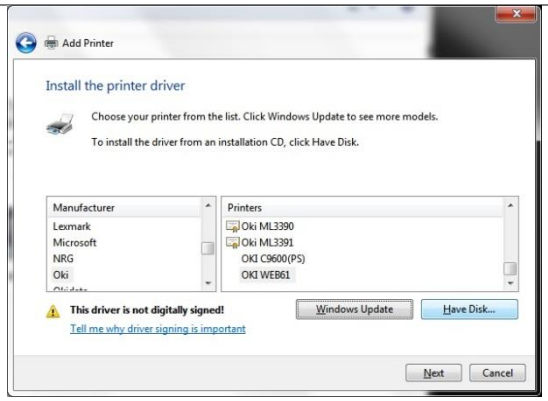
4.		Click [Add a Local Printer].
5.		Click [Next] as the default value of [Use an Existing Port] when connecting through a USB.
6.		Click [Have Disk].
7.		Click [Browse] after inserting the Anytron CD into the computer. (It is also possible to download the program from website.)

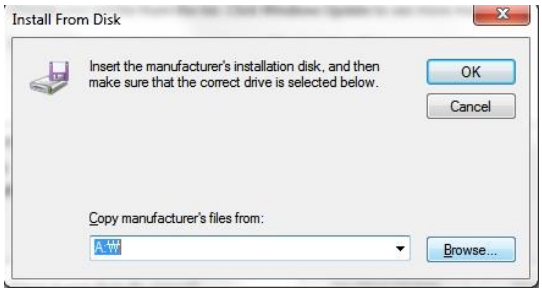
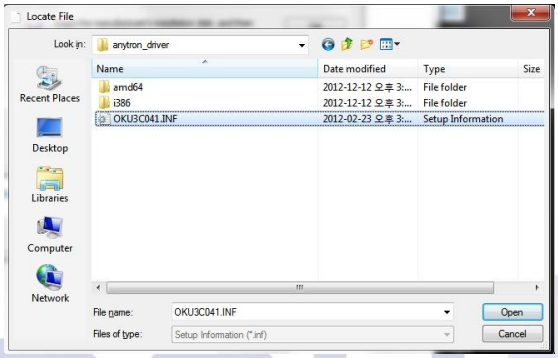
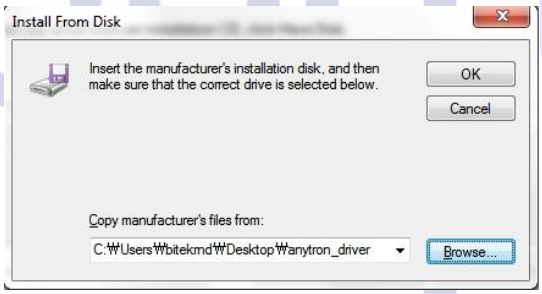
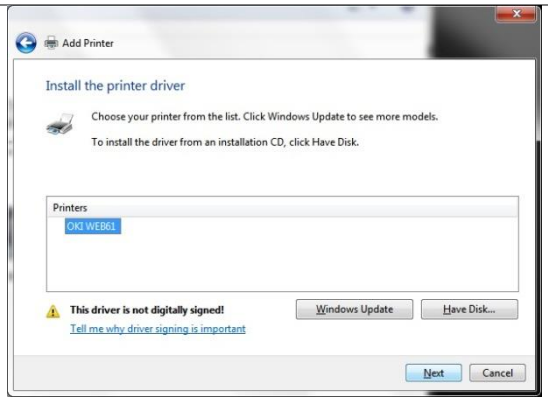
8.		After clicking [Computer] on the finding location, select [Anytron Driver] in [Anytron] andthen click [Open].
9.		Click [OK].
10.		After confirming that the printer is OKI WEB61, click [Next].
11.		After entering the printer name, click [Next].

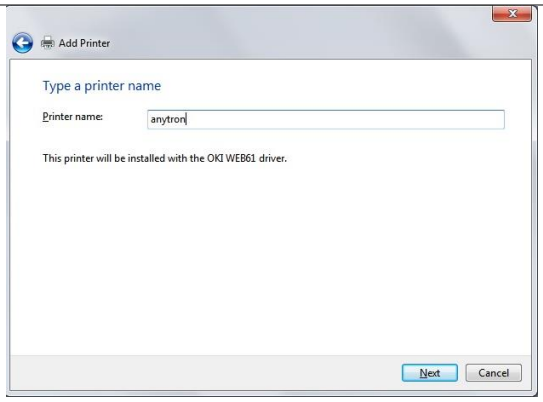
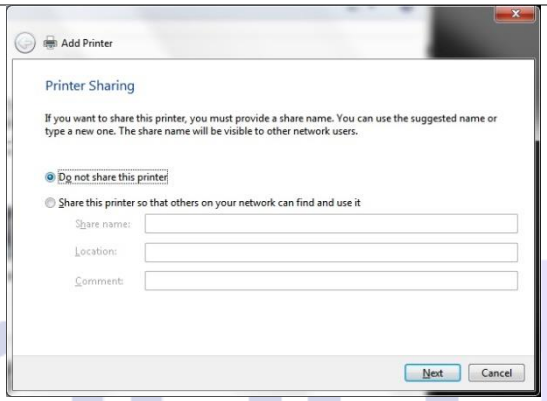
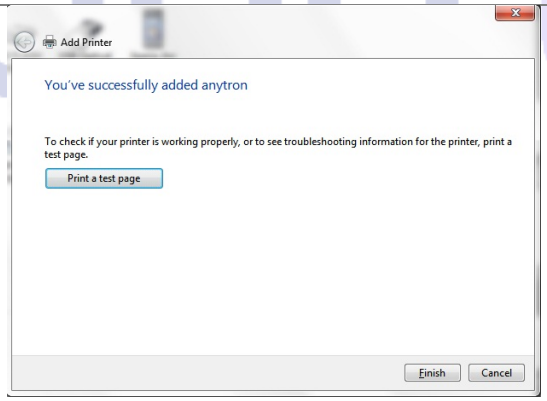
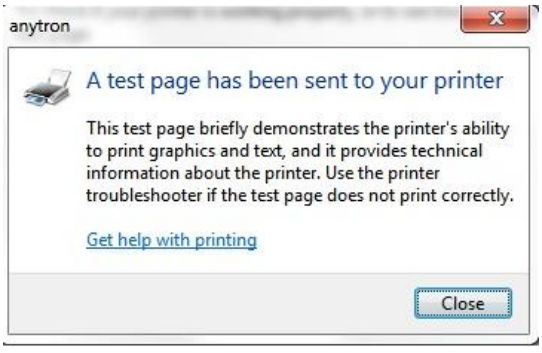
12.		After selecting [Do not share this printer], click [Next].
13.		After selecting [Set as the Default Printer], click [Print a Test Page] for checking the connection. (There should be A4 paper in the tray 1.)
14.		The installation will be completed when pressing [Close] and [End] after checking the printed test page.

2.3.1.2 Installation using LAN port

1.		Turn on the printer power and connect the LAN cable to the LAN port. The other ends of the cable connectto the PC.
2.		Select [Device and Printer] on the start menu.
3.		Click [Add a Printer] on the activated window.

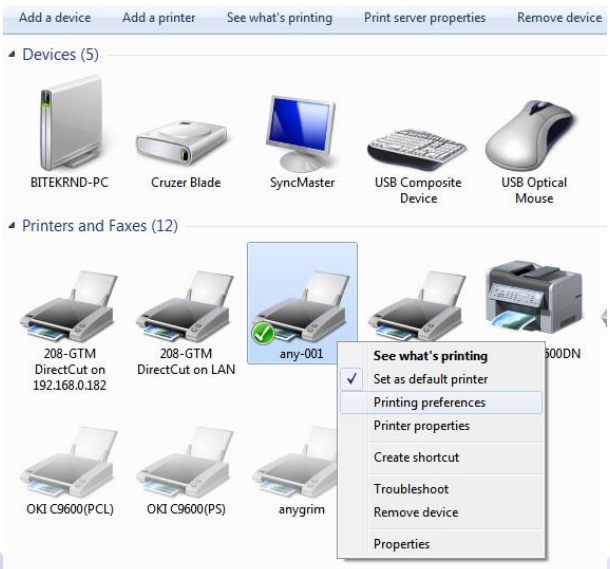
4.		Click [Add a Local Printer].
5.		Select [Create a new port], hen from the drop-down Allen Port menu, select [Standard TCP/IP Port] and click [Next] when using LAN.
6.		After entering a printer's IP address, click [Next]. (Refer to 2.2.3.1 How to check IP Address to check the printer's IP.)
7.		Click [Have Disk].

8.		Click the [Browse] after inserting the Anytron CD into the computer. (It is also possible to downloadthe program from the website.)
9.		After clicking the [Computer] on the [Finding Location] select [Anytron Driver] in the [Anytron] and then click [Open].
10.		Click[OK].
11.		After confirming the printer is OKI WEB61, click [Next].

12.		After entering printer name, click [Next].
13.		After selecting [Do not share this printer], click [Next].
14.		After selecting [Set as the Default Printer], click [Print a Test Page] to check the connection. (There should be A4 paper in the tray 1.)
15.		The installation will be completed after when pressing [Close] and [End], and after checking the printed test page.

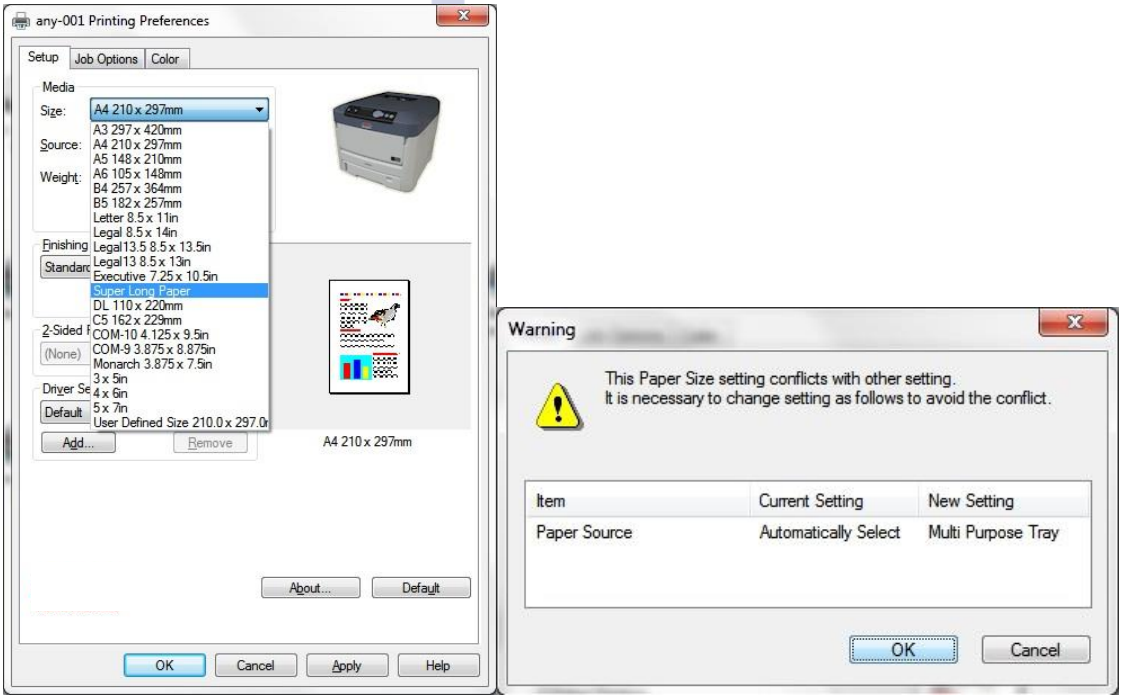
2.3.1.3Configuration of the roll (continuous paper) driver

1. After right clicking the Anytron driver in the [Devices and Printers], click [Set as default printer] in **See what's printing**drop down menu.

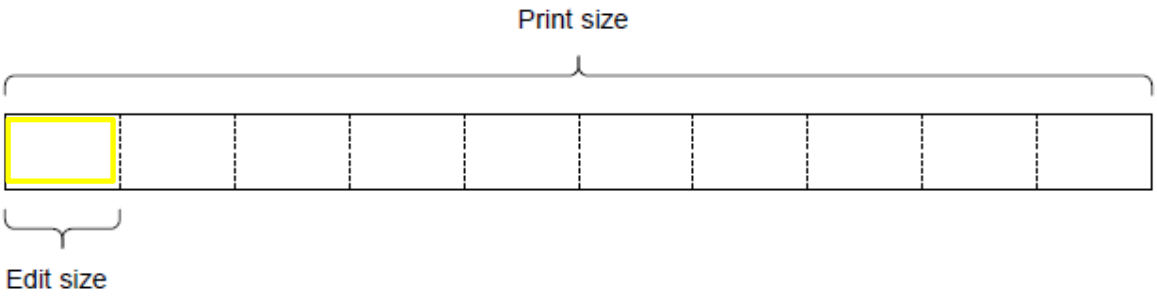


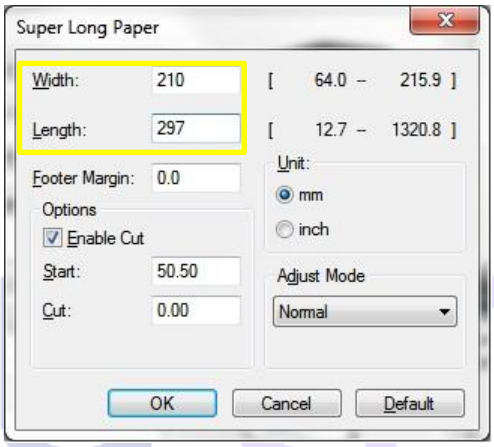
2. Set the size as [Super Long Paper] in the default print setup.

3. In the message box that pops up, click [OK] to change the paper source.

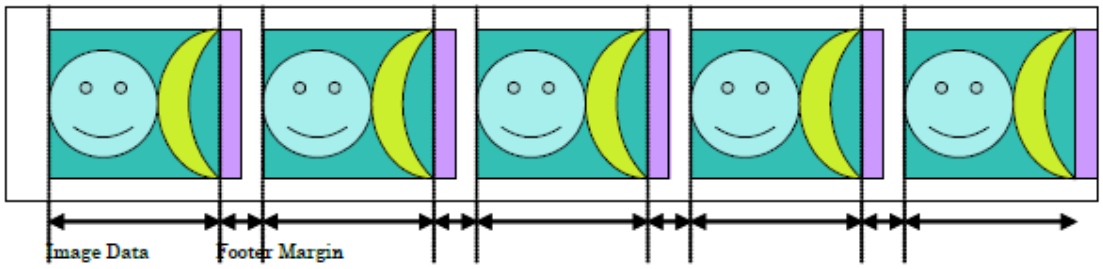


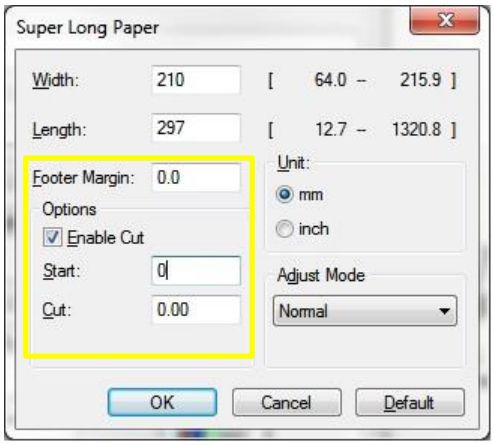
4. Enter a desired printing edit size into the Width, Length. (Ex- A4 size print: 210x297)





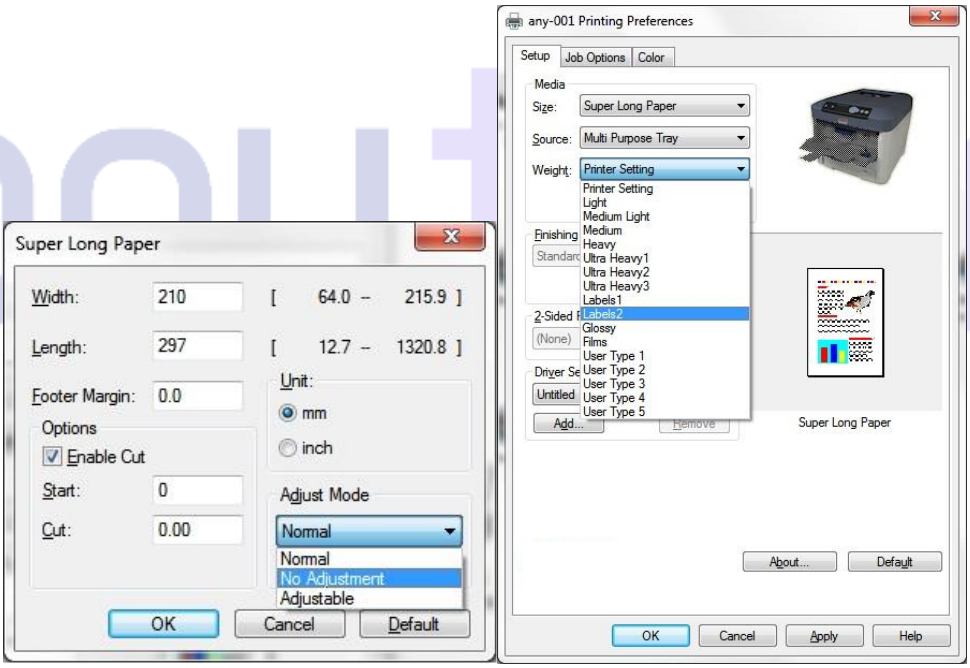
5. Footer Margin is a space between printed units, Start is a beginning point of images,and Cut is a cutting point after finishing all works.





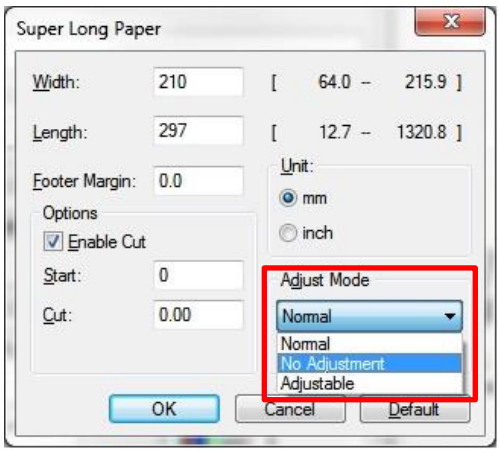
6. Set the Adjust Mode as the No Adjustment when using regular roll media.

7. Set the Weight as the Labels 2 when using regular matt papers(art papers).



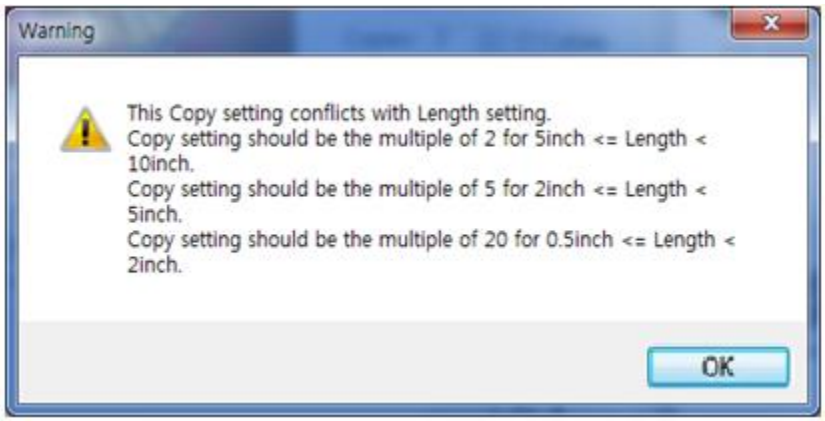
8.Description of the Printing Mode

- There are three printing modes for the Any-001 as show the photograph.



Adjust Mode	Sensing	Description
Normal	O	Print continuously after sensing the black mark once at the beginning
No Adjustment	X	Print continuously without using the sensor (Default)
Adjustable	O	Print consecutively by sensing every image unit's black mark continuously Mode to support pre-cut papers (A value for **in how many intervals of black marks the location should be adjusted**varies according to the label size.)

9. Adjustable Mode / Multiple of printing according to Image Length



- Multiples of images to be printed in Any-001 vary according to label size.For example, Length 100mm image is printed as multiples of five.Thus, 10(5*2) images are printed if you enter the number of output as '9'. This is equally applied in Adjustable mode. When printing 100mm image, adjust location at every 5thsensing.

3.Maintenance and Troubleshooting

3.1 WEB61 Troubleshooting

3.1.1 Occurrence of paper jam

■ Phenomenon: A Paper Jam message is displayed on the LCD window.

■ Cause

① The paper is stuck in the printer.

② A problem whichoccursbecause the paper is too close to the printer paper inlet.

■ Solution

① Open the top cover by pressing the button on the top part of the printer, and then remove the remaining paper.

② Close the top cover.

3.1.2 Data transmission failure

■ Phenomenon:The phenomenon wherein, though a printing order has been sent by the PC, no printing has been done by the printer.

■ Cause

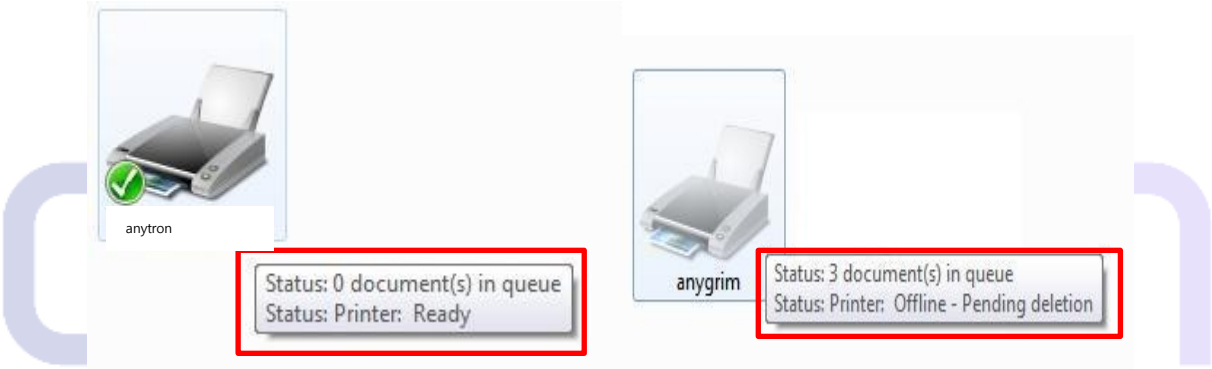
① The printer is set to offline;

② The printer is connected to the wrong port, or

③ An external cause (a defect in the LAN cable or in the USB cable, or a defectiverouter).

■ Solution

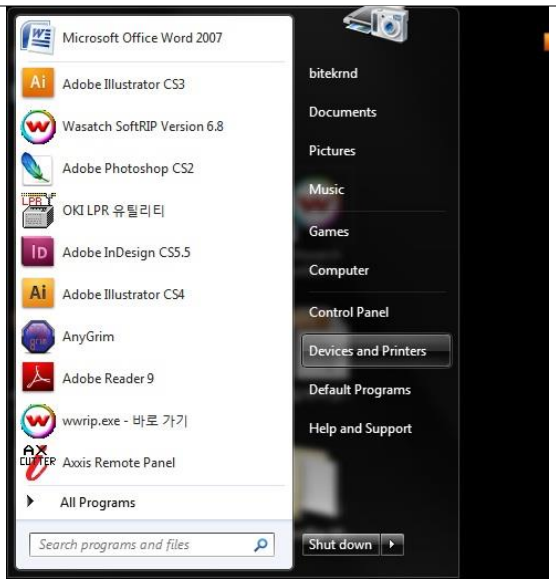
① Check whether the printer is set to online.

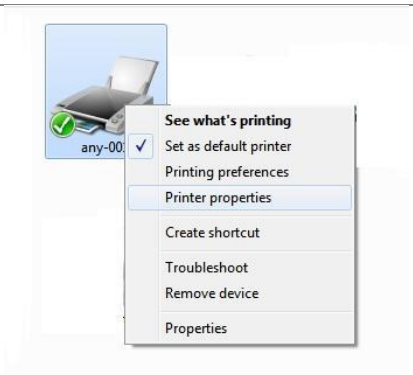
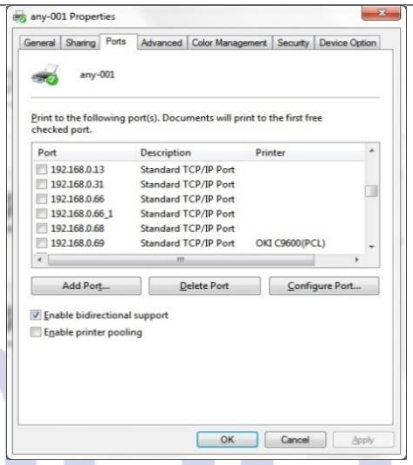
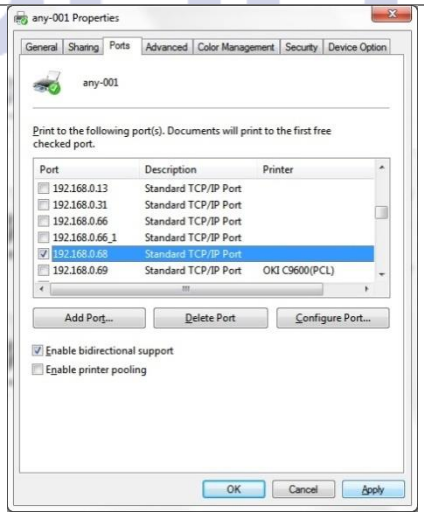


(O) **(X)**

② Check whether the port is normally set.

※How to check the printer port:

1.		Select [Devices and Printers] in the Start Menu.

2.		Select [Printer properties] or [properties] by clicking the right button of the mouse on Any-001 Printer.
3.		Select [Ports] from the top menu. Check whether the port corresponds to the one used.
4.		If the port does not corresponds to the one used, click the relevant port being used and click the APPLY button and then the CONFIRM button.

③ Check the state of the external factors.

- LAN cable, USB cable and router (in the case where a LAN cable is used for the connection), etc.

3.1.3 Paper feeding failure

■ Problem

① The printer does not feed the printer;

② The paper was not fed as the feeding unit did not operate after a print order was sent.

■ Cause

① A printer defect (paper feeding part, roller, etc.);

② A defect of Station Feeding Unit; or

③ A defect of the interface cable between the printer and the station.

■ Solution

① If the printer is incapable of feeding the paper, please contact our After-sale Service Center.

② If the feeding unit does not operate after sending a print order, please check **3.2.5 Feeding unit malfunction** menu below.

③ If there is no problem with the Feeding Unit, please check the interface cable between the printer and the station.

※ *For details, refer to **6. Printer ↔ Station Interface**menu.*

3.1.4 Error code table

Message	Cause	Error details		Action to take
Restart the printer. 002: Error~ 007: Error 009: Error~ 011: Error	CPUException	Does the error display recur?	Yes No	If the RAM DIMM installed, remov eit and turn off thepower of the printerand back on. Replace the CU/PUboard. Re-install the RAMDIMM. Replace the RAMDIMM.
Service call 020: Error	CU ROMHash Check Error	Does the error display recur?	Yes	Turn off the power of the printer andback on. Replace the CU/PUboard.
Service call 030: Error	CU RAMCheck Error	Does the error display recur?	Yes	Turn off the power of the printer andback on. Replace the CU/PUboard.
Service call 031: Error	CU OptionalRAM CheckError	Is installation of the RAM DIMM normal? Does the printer recover from the error when the RAM DIMM is replaced?	No Yes No	Re-install the RAMDIMM. Replace the RAMDIMM. Replace the CU/PUboard.
Service call 040: Error	CU EEPROMError	Does the error display recur?	Yes	Turn off the power of the printer andback on. Replace the CU/PUboard.
Service call 041: Error	CU FlashError. Flash ROMError on TheCU board	Does the error display recur?	Yes	Turn off the powerof the printer andback on. Replace the CU/PUboard.
Service call 042: Error~ 043: Error 045: Error	Flash FileSystem Erro r	Failed to access to the Flash ROM that is directly soldered to the CU/PU board.		Turn off the powerof the printer andback on. Replace the CU/PUboard.
Restart the printer. 072: Error. Xx	Engine I/FError. I/F errorbetween PU and CU	Is the CU/PU assembly installed normally? Does the printer recover from the error when the CU/PU board is replaced?	No Yes No	Re-install the CU/PU assemblynormally. Replace the CU/PU board.
Restart the printer. 073: Error xxxxxxxx	Video Error Error is detected whenexpanding the video data. (Illegal data is received.)	Is the CU/PU assembly installed normally? Does this error recur?	No Yes Yes	Re-install theCU/PU assembly normally. Change the PCwith another PC having highspecifications, or alternately reduceresolution powe rand execute the print again. Replace the CU/PU board.
				Replace theinterface cable. Re-install the PCprinter driver.
		Is the CU/PU assembly installed normally? Does this error recur? Does the error depend on print data?	No Yes Yes No Yes	Re-install theCU/PU assembly normally. Execute the printagain. Print any otherdata. Replace the CU/PU board. Send the data to design division andrequest analysis ofthe data.
Restart the printer. 074: Error xxxxxxxx 075: Error xxxxxxxx	Video Error Error isdetected Whenexpanding the video data.	Is the CU/PU assembly installed normally?	No Yes	Re-install theCU/PU assembly normally. Replace the CU/PU board.
Service call 081: Error	Parameterintegrity check	Either EEPROM or Flash ROM cannot read/write normally.		Turn the printerpower off and thenback on. If the error symptom remains unchanged,replace the CU/PU

				board.
Service call 104: Error	Read/writeerror of the engine EEPROM isdetected.	Does this error recur?	Yes	Turn off the powerof the printer andback on. Replace the CU/PU board.
Service call 106: Error	Engine control logic has an error.	Does this error recur?	Yes	Turn off the powerof the printer andback on. Replace the CU/PU board.
Service call 111: Error	Duplex unit for other model isdetected.	Is the Duplex unit for that specific model installed?	No	Install the correctduplex unit.
Service call 112: Error	2nd tray forother model isdetected.	Is the 2nd tray for that specific model installed?	No	Install the correct2nd tray.
Service call 113: Error	3rd tray forother model isdetected.	Is the 3rd tray for that specific model installed?	No	Install the correct3rd tray.
Service call 121: Error	High voltagepower supplyinterface error.	Is the cable connecting the CU/PU board to the high voltage unit connected normally? Have you checked defective contact of contactor points?	No Yes No	Re-connect themnormally. Check for defectivecontact of the highvoltage system. Replace the highvoltage power supply.
Service call 122: Error	Low voltagepower supplyfan error	Is the fan (bottom right of the front) of the low voltage power supply block working? Is the fan connector connected normally?	No Yes No Yes	Check for sureconnection of the fan connector. Replace the CU/PU board. Replace the fanmotor.
Service call 123: Error	Environment humidity is abnormal./Humidity sensor is notconnected.	Does this error recur?	Yes	Turn off the powerof the printer andback on. Replace the control panel board.
Service call 124: Error	Environment temperature is abnormal.	Does this error recur?	Yes	Turn off the powerof the printer andback on. Replace the controlpanel board.
Service call 126: Error	Dewcondensation of the printer is detected.	This error can easily occur when a printer is brought in to indoor from outdoor. Leave the printer for 2 hours or half day under room temperature, and turn on the power again. Does this error recur?	Yes	After leaving aprinter under room temperature, turnon the power again. Replace the control panel board.
Service call 127: Error	Fuser exhaustfan erro r	Is the fan connector connected normally? Does this error recur?	No Yes No	Re-connect itnormally. Replace the fanmotor. Replace the CU/PU board.
Service call 128: Error	ID cooling fanerror	Is the fan connector connected normally? Does this error recur?	No Yes No	Re-connect itnormally. Replace the fanmotor. Replace the CU/PU board.
Service call 131: Error~ 134: Error	LED headdetection Error (131=Y,132=M, 133=C,134=K)	Is the LED head connected normally? Is the LED HEAD fuse brown? Does this error recur?	No Yes Yes No Yes	Install the LEDhead unit normally. Check the LEDHEAD fuse. After checking fuseTurn on the po weragain. For the method ofchecking the LE D head unit fuse,refer to section 7.6.
Service call 142: Error	ID Up/Downposition Detectionerror	Is the ID unit caught by anything when it is removed and re-installed?	Yes No	Re-install the IDunit. Turn on the poweragain. Replace the IDUP/DOWN sensor.

		Does this error recur?	Yes	
Service call 150: Error~ 153: Error	The ID unitfuse has blown out. (150=Y,151=M, 152=C,153=K)	Is the ID unit installed normally? Does this error recur? Does the printer recover from the error when the PU/PRZ board is replaced?	No Yes Yes No	Re-install the IDunit. Turn on the poweragain. After checkingfor the sure connection of thecable between PRZ board andCU/PU board, replace the PRZboard. Replace the CU/PU board.
Service call 154: Error	The belt unitfuse has blown out.	Is the belt unit connected normally? Does this error recur?	No Yes Yes	Re-install the beltunit. Turn on the poweragain. After checkingfor the sure cable connection,replace the CU/PU board.
Service call 155: Error	The fuserunit fuse hasblown out.	Is the fuser unit installed normally? Does this error recur?	No Yes Yes	After cleaningthe connecting connector of thefuser unit, re-installthe fuser unit. Turn on the poweragain. After checkingfor the sure cable connection, Replace the CU/PU board.
Service call 160: Error~ 163: Error	Toner sensor detection error. (160=Y,161=M, 162=C,163=K) Thiserror does not occur withthe defa ultsettings.	Is the toner cartridge installed? Is the lock lever of the toner set? Does this error recur?	No No Yes	Install the tonercartridge. Rotate the locklever of toner to thelock position. Turn on the poweragain. Replace the tonersensor assembly.
Service call 167: Error	Thermistor Slope Error	Is the error message displayed? Does this error recur?	Yes	Turn on the poweragain. After leaving aprinter for 30 minutes, turn onthe power again.
Service call 168: Error Note)	Compensation Thermistor Error	Is the error message displayed? Does this error recur?	Yes	Turn on the poweragain. After leaving aprinter for 30 minutes, turn onthe power again.
Service call 170: Error 171: Error Note)	Short-circuit or open-circuit of fuser thermistor is detected.	Does this error recur?	Yes	Turn on the poweragain. Replace the fuserunit.
Service call 172: Error 173: Error	The fuserthermistor has detected an abnormal temperature (hightemperature or lowtemperature.)	Does this error recur? Does this error recur?	Yes Yes	Turn on the poweragain. Replace the fuserunit. Replace the lowvoltage power supply unit.
Service call 174: Error	The backuproller thermistor isdetected of its short-circuit. (At hightemperature)	Does this error recur?	Yes	Turn on the poweragain. Replace the fuserunit.
Service call 175: Error Note)	The backuproller Thermistoris detected of its open-circuit. (At lowtemperature)	Does this error recur?	Yes	Turn on the poweragain. Replace the fuserunit.
Service call 176: Error 177: Error	The backuproller Thermistorhas detecte dan abnormal temperature (hightemperature or lowtemperature.)	Does this error recur? Does this error recur?	Yes Yes	Turn on the poweragain. Replace the fuserunit. Replace the lowvoltage power supply unit.
Service call 181: Error 182: Error 183: Error	Option unitI/F error (181=DuplexUnit, 182=2nd Tray, 183=3rd Tray)	Does this error recur? Does this error recur?	Yes Yes	Turn on the poweragain. Check for sureconnection of the connectors. Replace the optionunit.

Re-start the printer. 190: Error	Systemmemory overflow	Does this error recur?	Yes	Turn on the poweragain. Increase the add-on RAM DIMM.
Service call 200: Error~ 202: Error	PU Firmware Download Error	Error has occurred during re-writing of the PU firmware.		After turningon the power again, performdownloading again. (This errordoes not occur during the normaloperation, becausethis processing is not carried out.)
Re-start the printer. 209: Download Error	Custom Media Type table downloading has failed.	Custom Media Type table downloading has failed.		After turning on the power again, perform downloading again. (This error does not occur during the normal operation because this processing is not carried out.)
Re-start the printer. 203: Error 204: Error 207: Error 208: Error 214: Error FOC: Error FFF: Error	CU programerror (The errornumbers 203 through214 do not occur underthe normaloperation.)	Illegal processing is executed by the CU program.		After turning offthe power, check for the normalconnection CU/PU board. Then, turnon the power again.
Service call 230: Error	RFID Reader not Installed	RFID read device error Does this error recur?	Yes Yes	Check for normalconnection of theRFID R/W board. Replace the RFIDR/W. Replace theCU/PU board.
Service call 231: Error	RFID readerI/F error	Interface error with the RFID reader is detected. 01: Communication error between the RFID reader and the engine circuit boards. 02: Error in the wireless circuit of the RFID reader 03: Communication error between the RFID reader and the toner cartridge. 04: Error is detected in the RFID toner cartridge. (In more than 4)		01: Same as theerror no. 230 02: Replace theRFID R/W board. 03: Check fornormal connection ofthe antenna cable. 04: Check ifquantity of the toner cartridgeis correct or not.
Re-start the printer. 901: Error~ 904: Error Note)	Abnormaltemperature of belt 901: Short-circuit 902: Open-circuit 903: Hightemperature 904: Lowtemperature	Is the cable from belt thermistor to the high voltage board connected normally? Does this error recur?	No Yes No	Re-connect thecables normally. Turn on the poweragain. Replace the beltthermistsor.
Re-start the printer. 918: Error	DuplexFAN Alarm Caution	Fan error inside the Duplex unit. Does the error recur when the power is turned off once and back on? Does the error recur when the power is turned off once and back on?	Yes Yes	Check if the Duplexunit is Installednormally or not. Check if the fansare installed normally or not. Replace the fan.
Re-start the printer. 923: Error	Black imagedrum lock error	The K ID does not rotate normally. Does the error display recur when the power is turned off once and back on?	Yes Yes	Check if the K ID is installed normallyor not. Replace the K IDunit. Replace the K IDmotor.

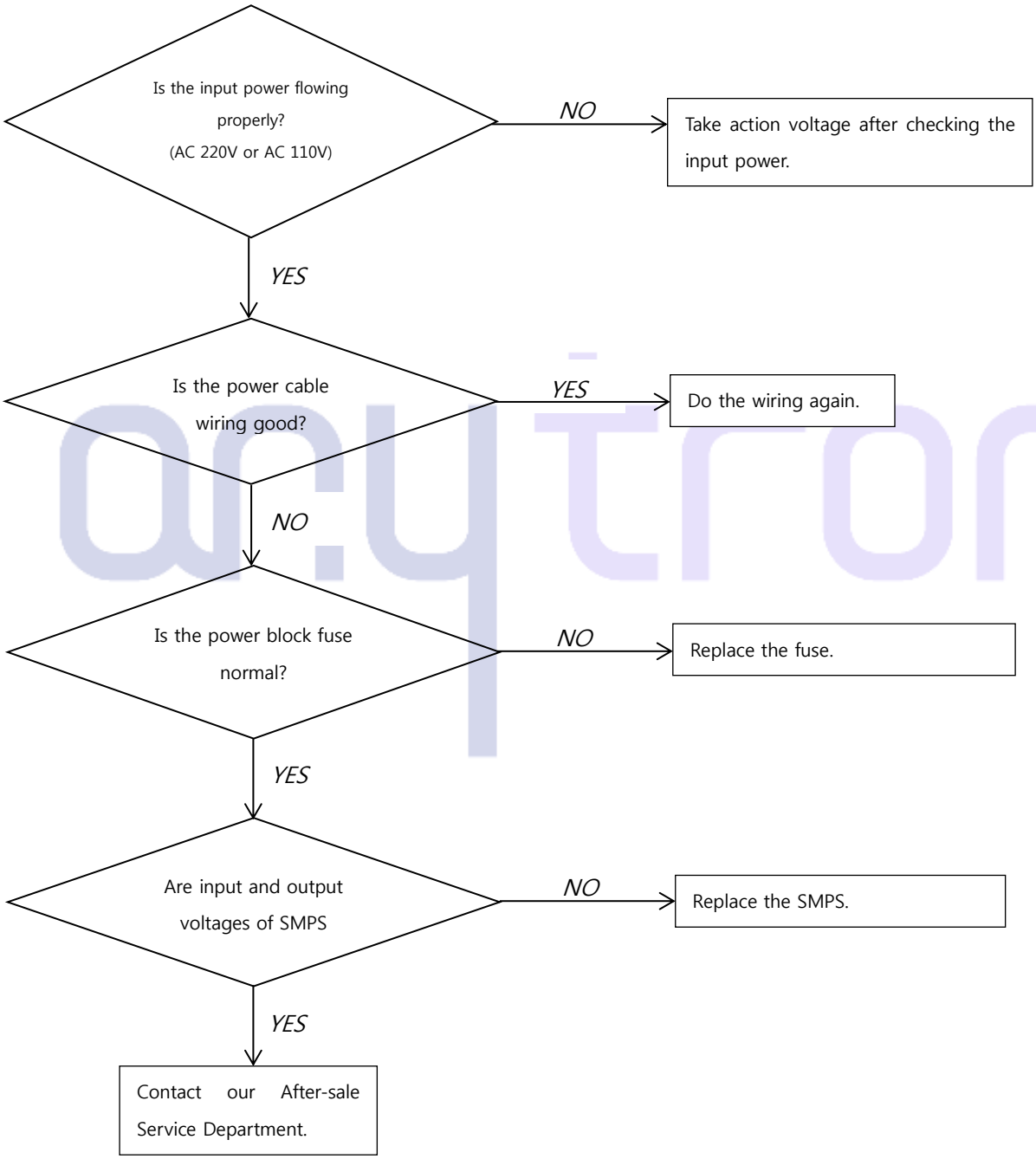
Service call 928: Error	Fuser motorlock error	Fuser does not rotate normally. Does this error recur?	 Yes Yes	Check if the fuser is installed normally or not. Replace the fuser. Replace the fuser motor.
Service call 980: Error	Mediawrapped around thefuser error	Media has wrapped around the fuser.		Turn off the power. Replace the fuser.
Service call 982: Error	4th traydetection error	The 4th tray is installed.		Remove the 4th tray.
Service call 983: Error	Error dueto detection of the tonercartridges of the samecolor	Two or more toner cartridges of the same color are detected.		Install the cartridgeof the specifiedin the specified position.
Service call 984: Error~ 987: Error	Detectionof an Unsupportedtoner cartridge	An unsupported toner cartridge has been detected. 984:Black toner cartridge position 985:Yellow toner cartridge position 986:Magenta toner cartridge position 987:Cyan toner cartridge position		Replace it with anappropriate tone rcartridge.
WDT ERROR R14=××××××××	PU firmwarerunaway	Does this error recur?	Yes	Turn on the poweragain. Replace the CU/PU board.
COMMUNICATION ERROR	I/F errorbetween PU and CU	Does this error recur?	Yes	Replace the CU/PU board.
ASIC ERROR	DCON accesserror	Does this error recur?	Yes	Replace the CU/PU board.

3.2 Station Troubleshooting

3.2.1 Power supply problem

Issue: The problem wherein the power LED fails to light and the press station does not operate when the power switch is turned on.

※Be sure to turn off the power before replacing the Part.

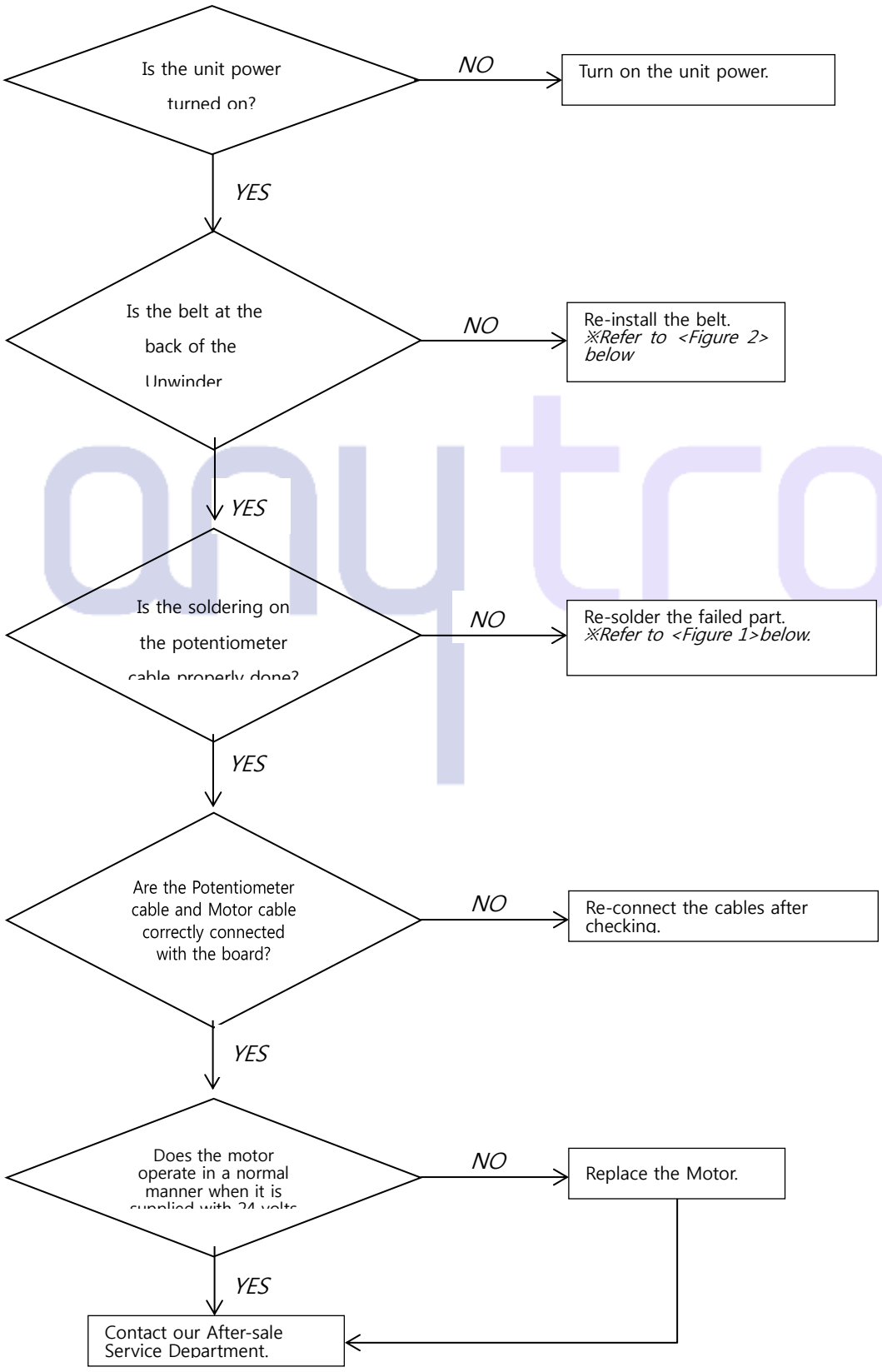


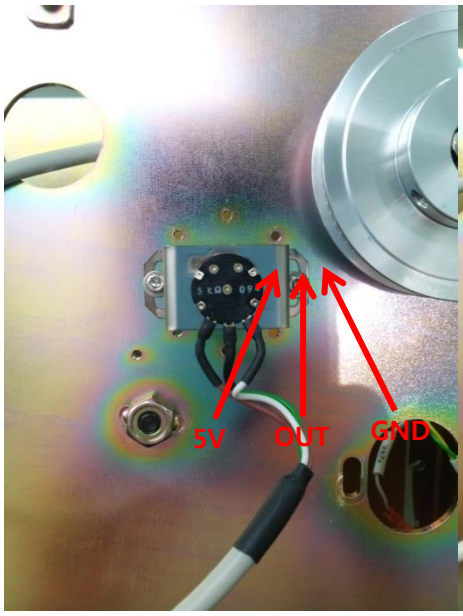
※ SMPS Output Voltage: DC24V

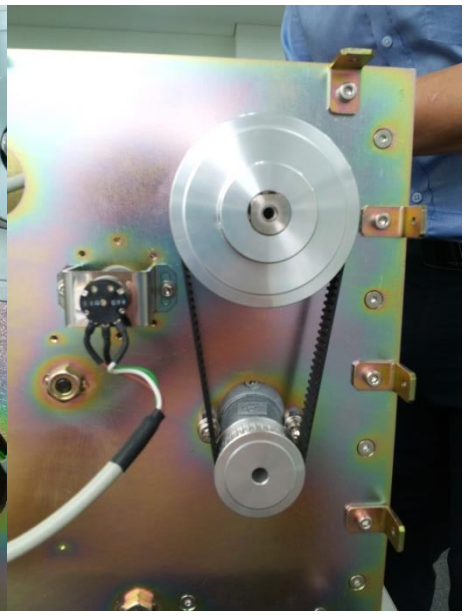
3.2.2 Unwinder/Rewindermalfunction

Issue: Malfunction of the Unwinder or Rewinder when the power is turned on or the media is printed.

※Be sure to turn off the power before replacing the Part.







<Figure 1> Potentiometer Connection <Figure 2> Unwinder(Rewinder) Motor Belt Installation

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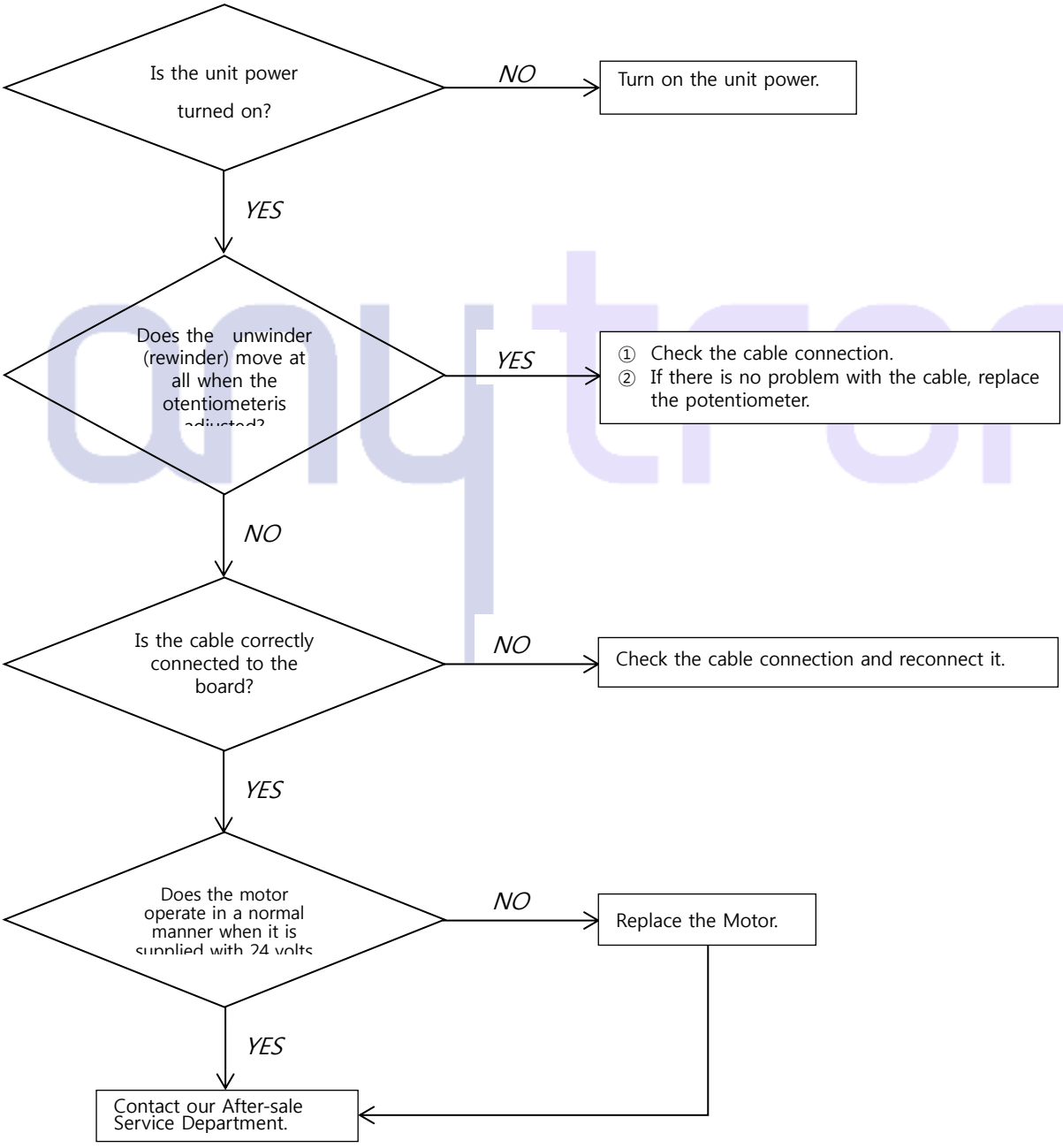
3.2.3 Left and right tension bar malfunction

Issue:The tension bar does not work resulting in unwinder (rewinder) failure.

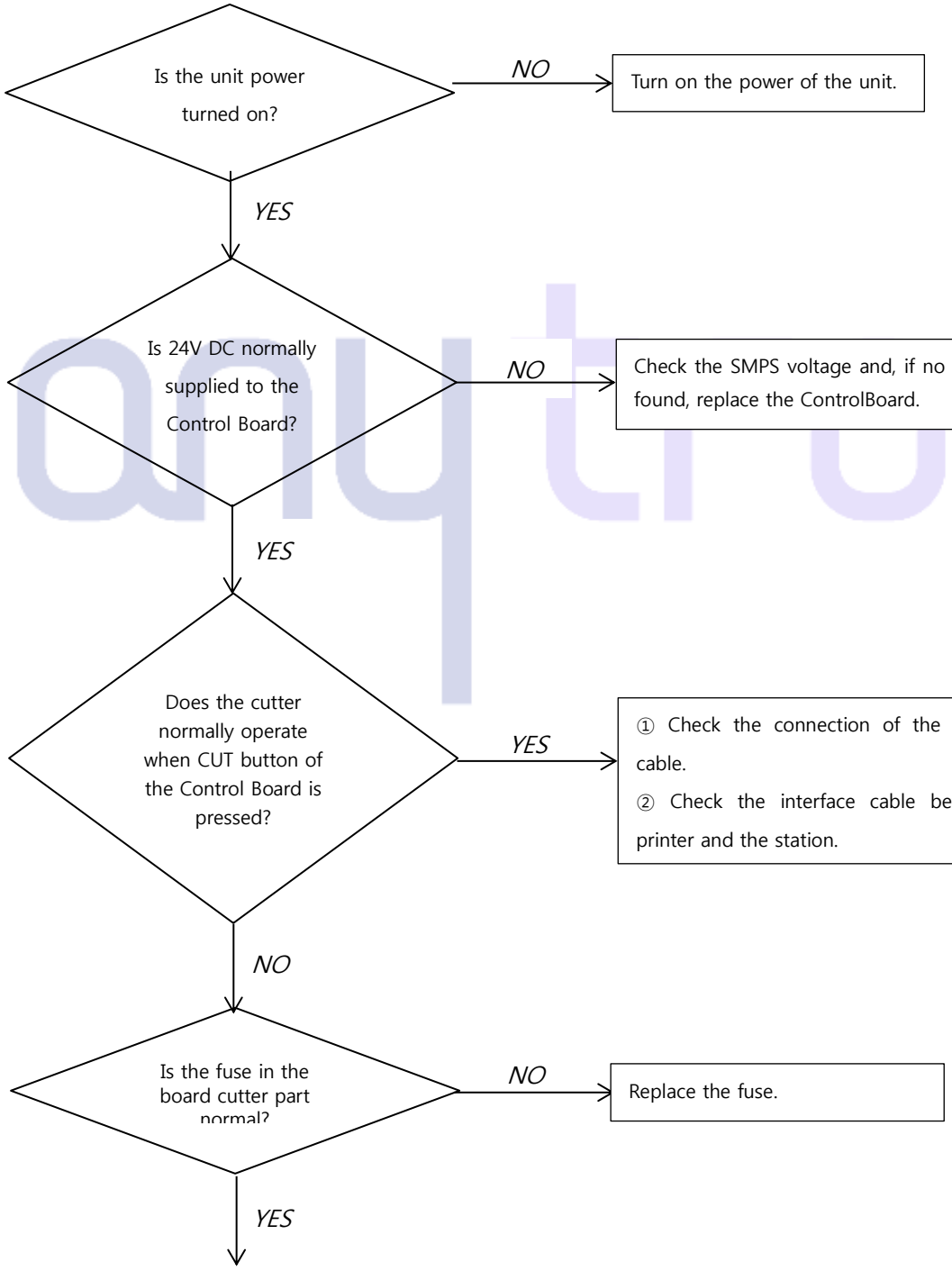
※Be sure to turn off the power before replacing the Part.

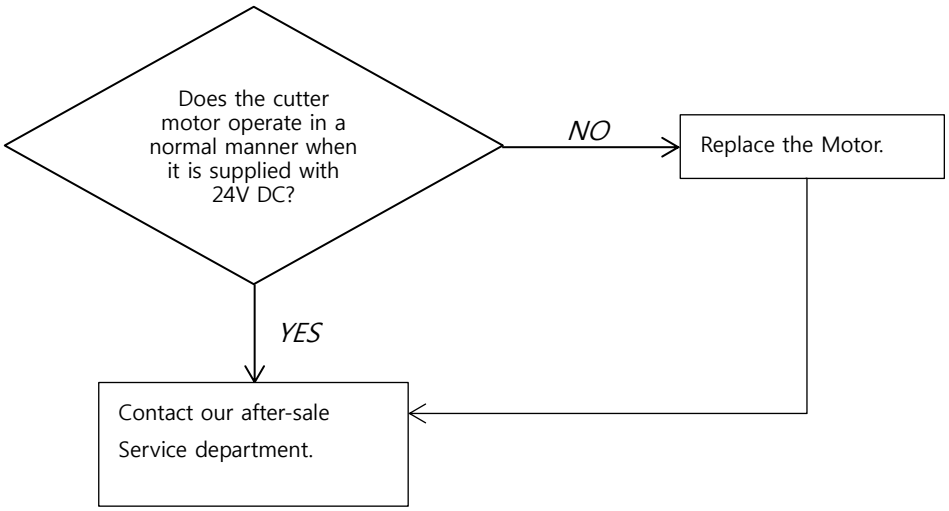


3.2.4 Cutter malfunction

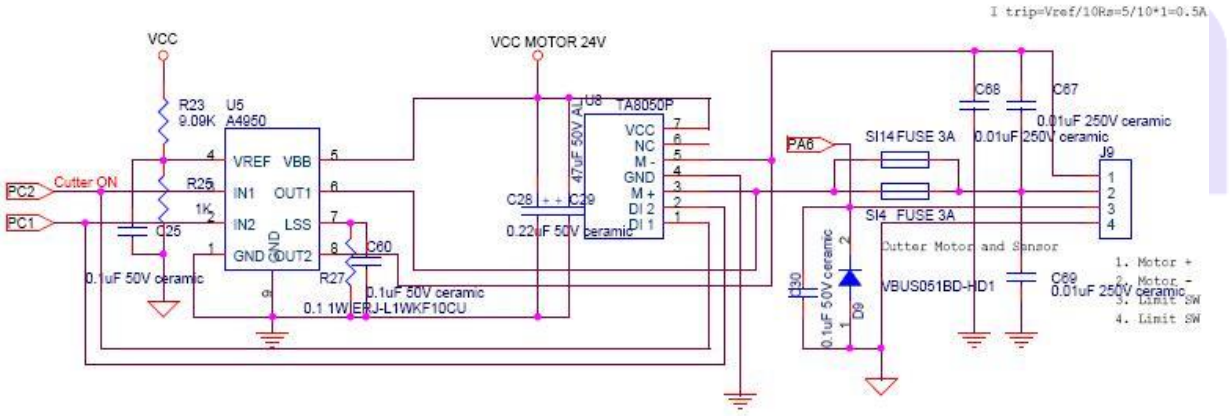
Issue:①The cutter does not operate when the CUT button on the front panel is pressed.
②The cutter does not operate after the set number of sheets are printed.

※Be sure to turn off the power before replacing the Part.





Reference: <Figure 3>Refer to the circuit diagram of the cutter part.

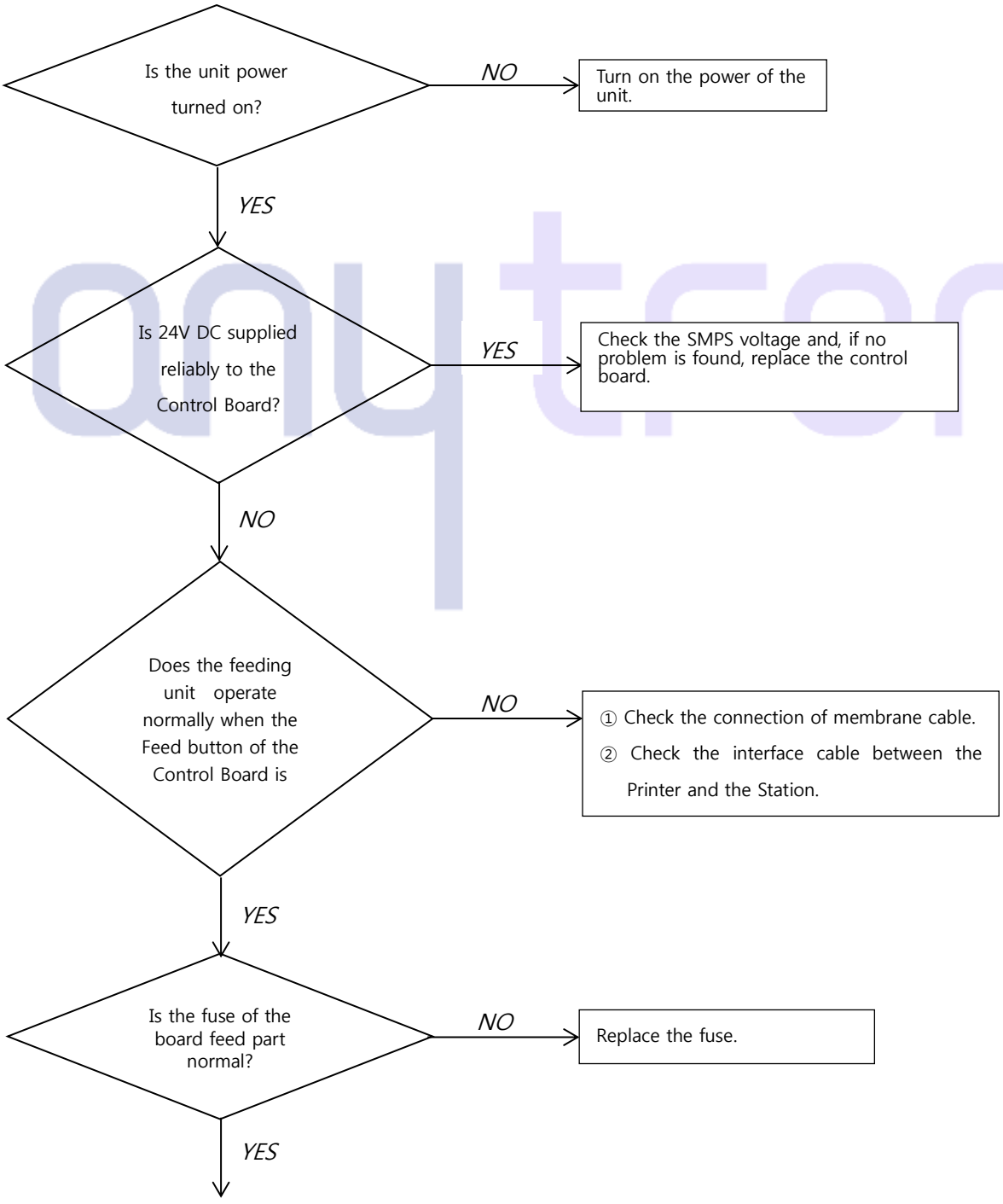


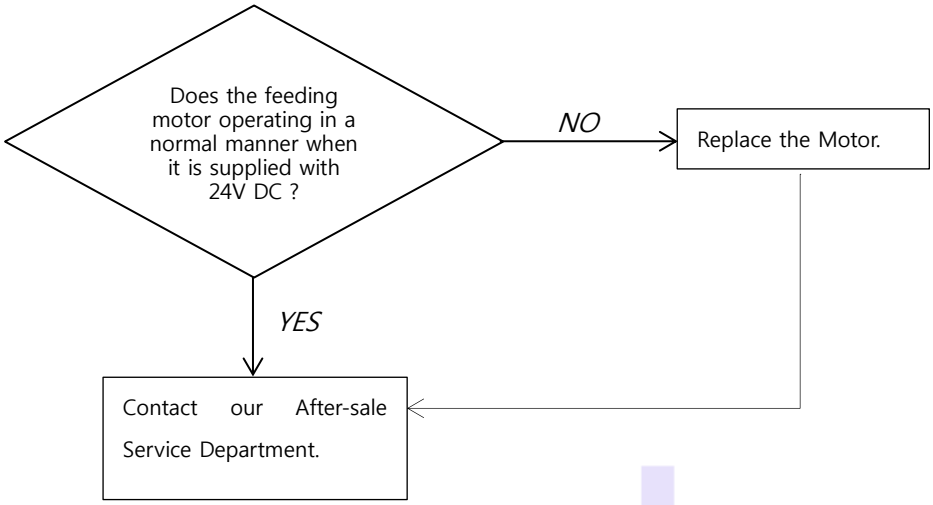
<Figure 3> Cutter part circuit diagram

3.2.5 Feeding unit malfunction

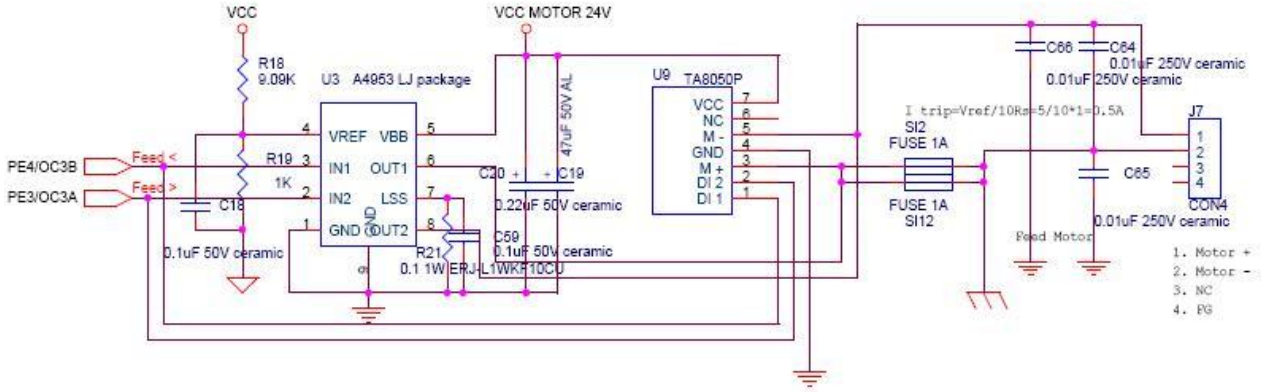
Issue:①The feeding unit does not operate when the feeding button on the front panel is pressed.
②The printer fails to feed paper.

※Be sure to turn off the power before replacing the Part.





Reference: <Figure 4>Refer to the Feeder Part Circuit Diagram.

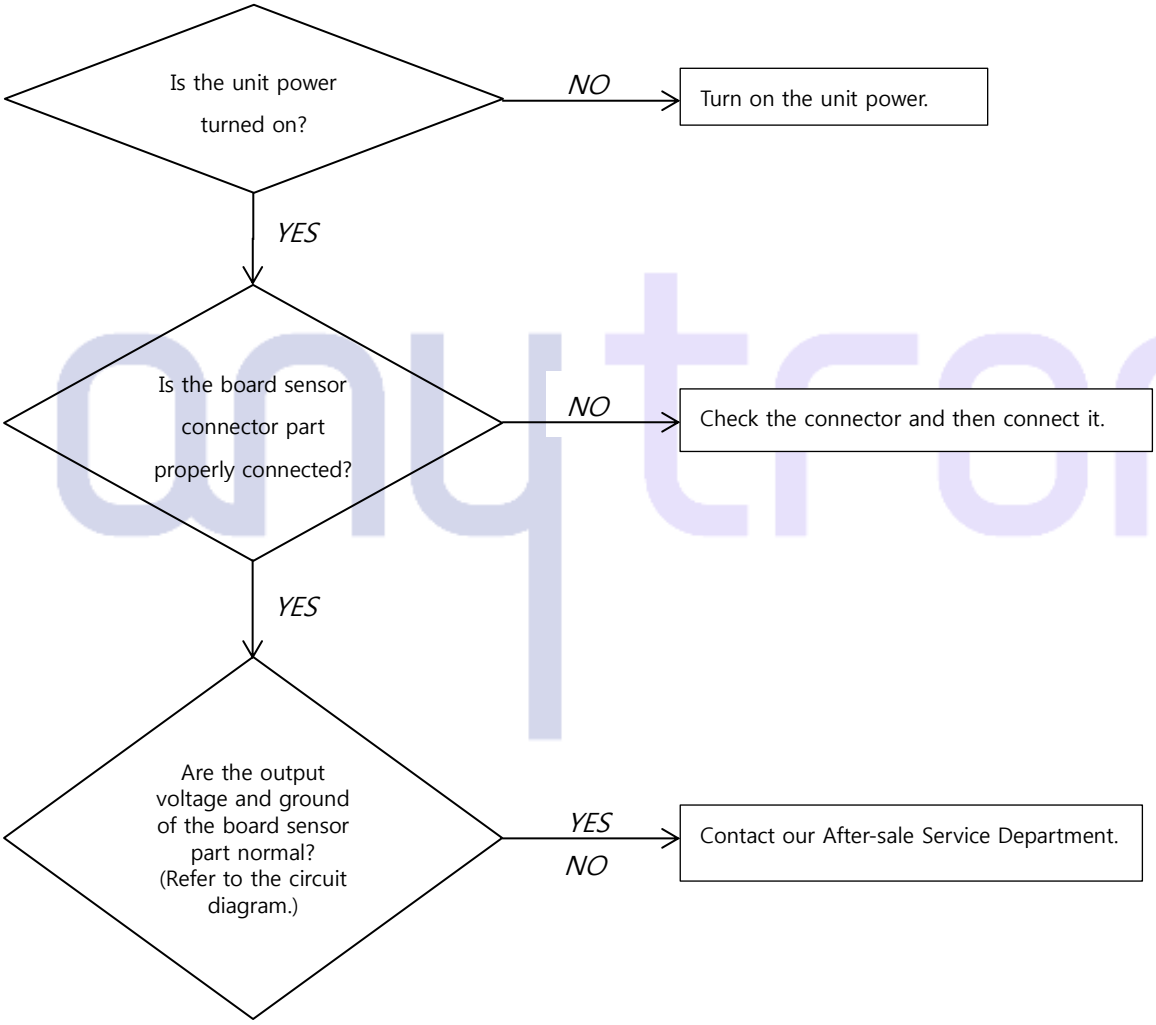


<Figure 4> Feeder Part Circuit Diagram

3.2.6 Sensor malfunction

Issue:①Thepower to the sensor does not flow.
② The sensor does not operate when printing is done in adjustable mode(printing setup).

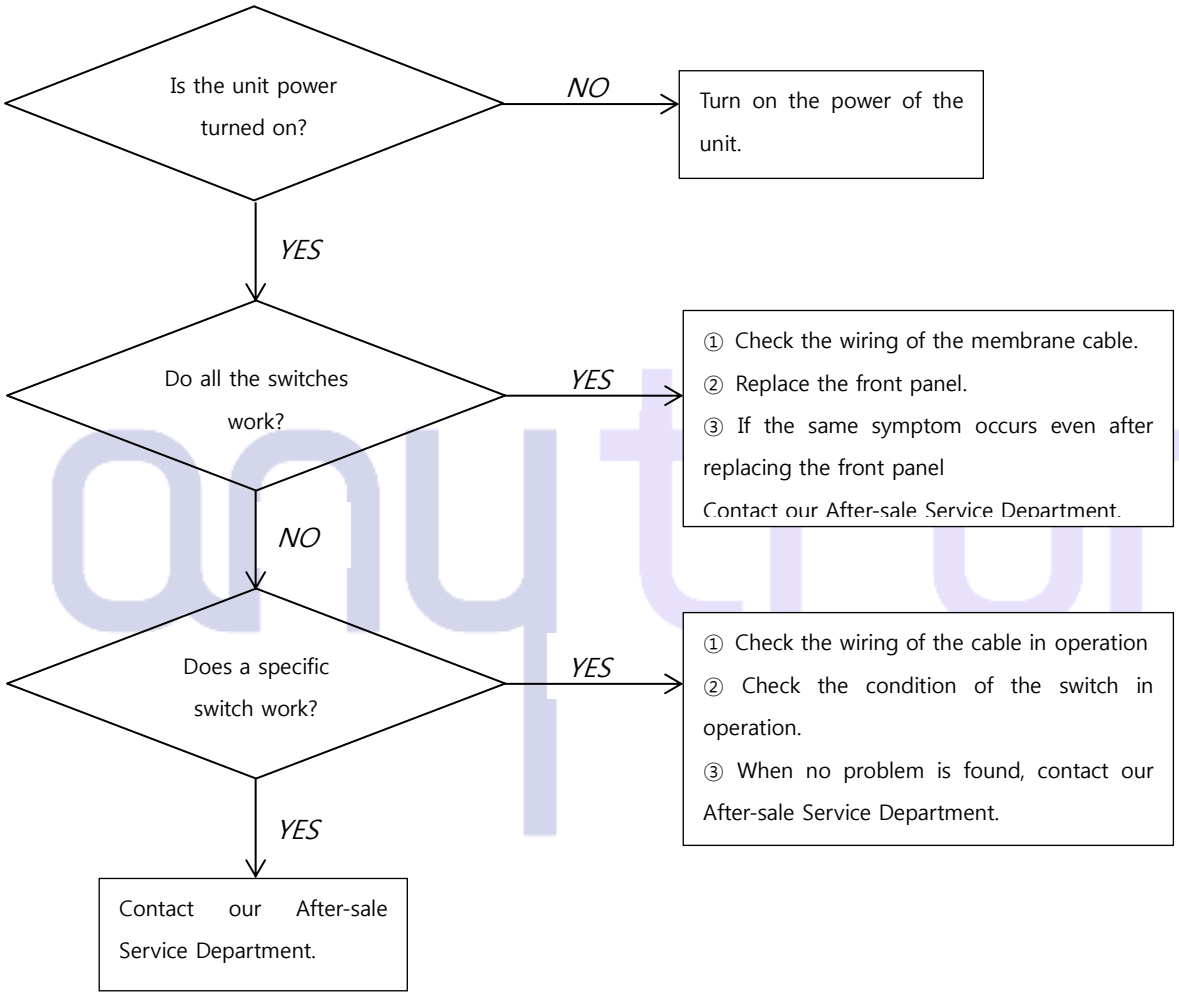
※Be sure to turn off the power before replacing the Part.



3.2.7 Front panel malfunction

Issue: The front panel switch does not work.

※Be sure to turn off the power before replacing the Part.

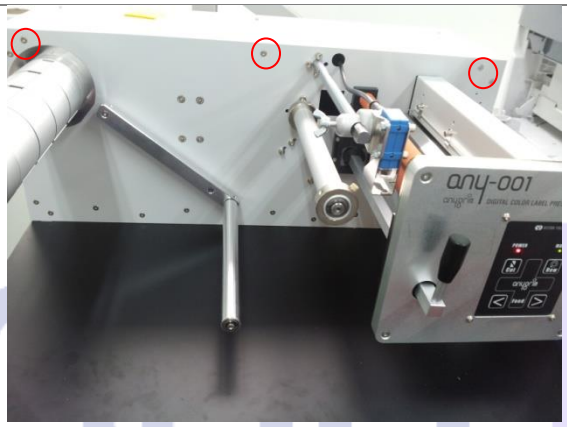
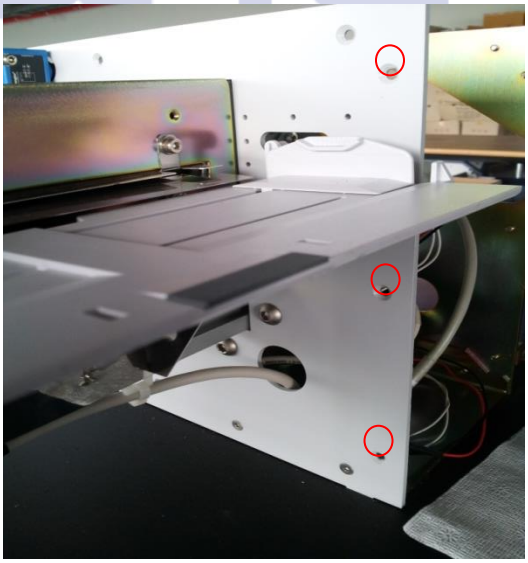


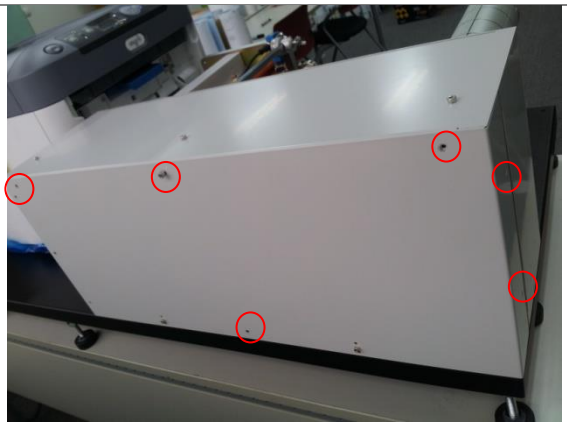
4. Disassembly and Replacement

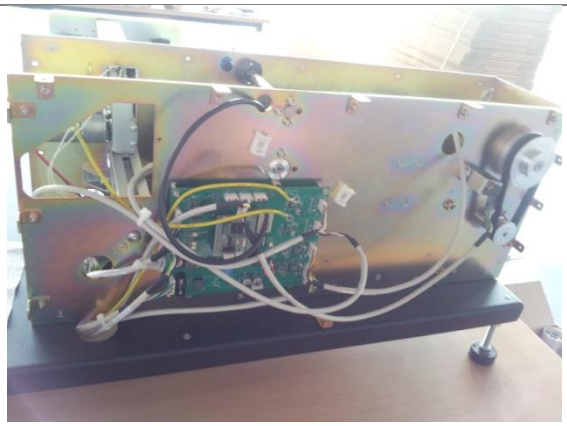
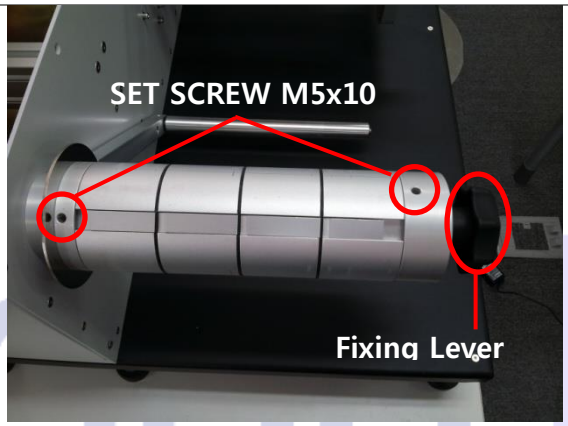
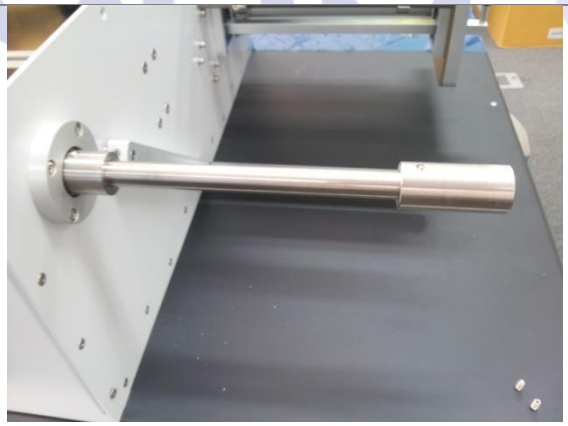
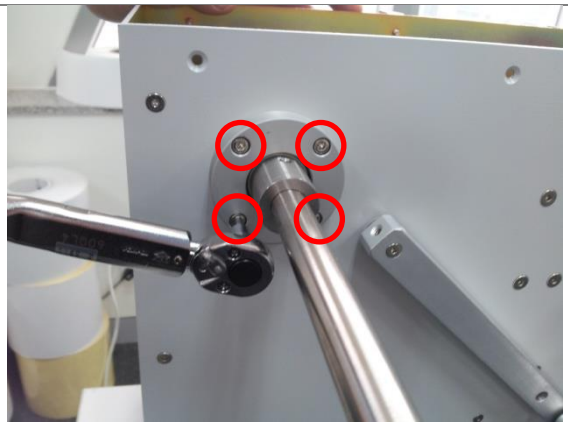
4.1 Disassembly and Assembly of the Unwinderand theRewinder

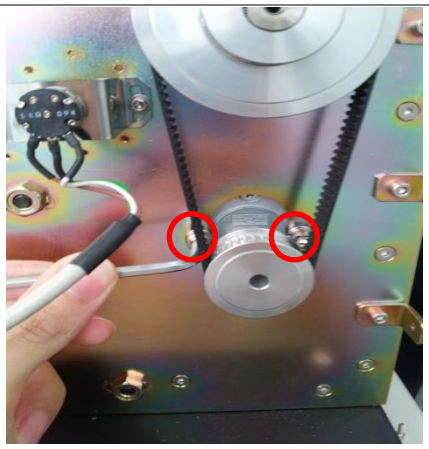
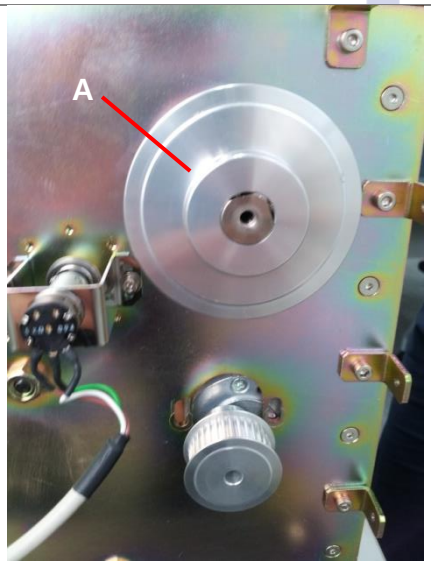
※ Please be sure that turn off the press station power and printer power before starting the operation. If the machineturns on during the operation, the precise parts which are Control Board, Fuse, Potentiometer and Motor get damaged.

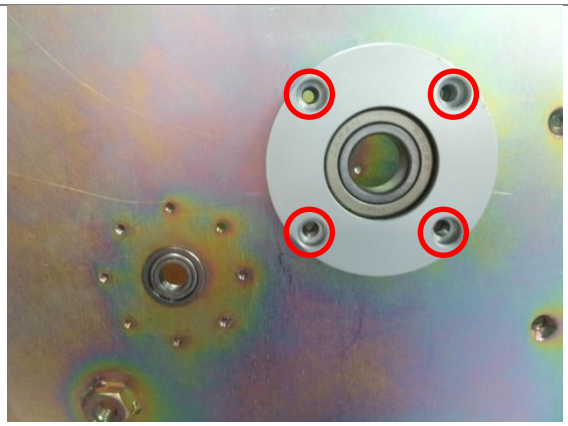
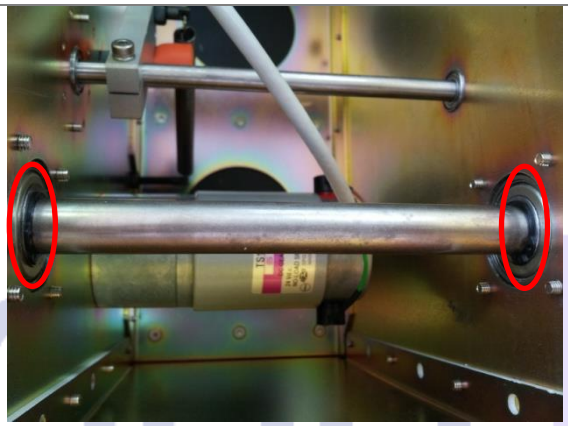
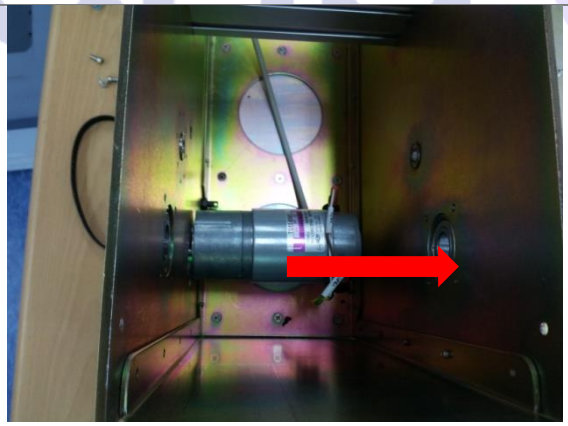
4.1.1 How to disassemble the unwinder

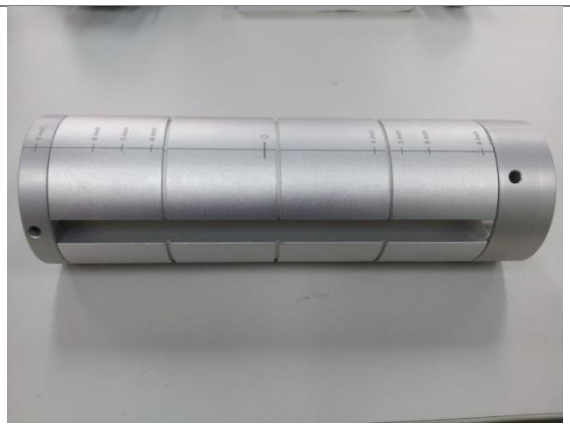
1.		Open the top cover of the press station using hexagonal wrenches(hexagonal wrench: 2.5", 3").
2.		Open the rear cover of the press station using a hexagonal wrench (hexagonal wrench: 3").

3.		Open the top cover of the press station using a hexagonal wrench (hexagonal wrench: 2.5″, 3″).
4.		After loosening the bolts, lift up by inserting fingers inside the circle marked with red.
5.		Open the rear cover of the press station using a hexagonal wrench (hexagonal wrench: 3″).

6.		Remove the top cover and rear cover shown in the figure.
7.		Unfasten the fixing lever of the unwinder by turning it counterclockwise. Then, unfasten the two set screws using a hexagonal wrench (hexagonal wrench: 2.5″).
8.		When the bobbin is slowly pulled out by hand after unfastening the two set screws, the part shown in the figure comes out.
9.		Unfasten the 4 set screws using a hexagonal wrench (hexagonal wrench: 3″).

10.		Unfasten the 2 screws using a hexagonal wrench (hexagonal wrench: 4″).
11.		Unfasten the 2 set screws using a hexagonal wrench (hexagonal wrench: 2.5″).
12.		When the 2 set screws are unfastened as shown in No. 6, the unwindermotor can be moved up and down. Slightly lift up the unwindermotor and unfasten the Belt.

13.		Unfasten the 4 screws using a hexagonal wrench (hexagonal wrench: 3″).
14.		Remove the 2 rings using a ring remover.
15.		Pull out the unwinder shaft by hand.
16.		Removed the shaft of the unwinder part.

17.		Disassembly of the unwinder part is completed.

4.1.2 How to assemble the unwinder

The unwinder can be assembled by following the procedures of **4.1.1 How to disassemble the unwinder**in reverse order.

4.1.3 How to disassemble the rewinder

The rewinder is assembled in the same way as the unwinder.

Accordingly, it can be disassembled in the same way as **4.1.1How to disassemble the unwinder.**

4.1.4 How to assemble the rewinder

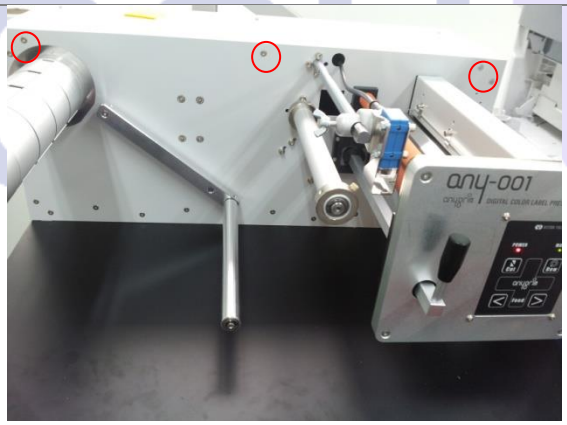
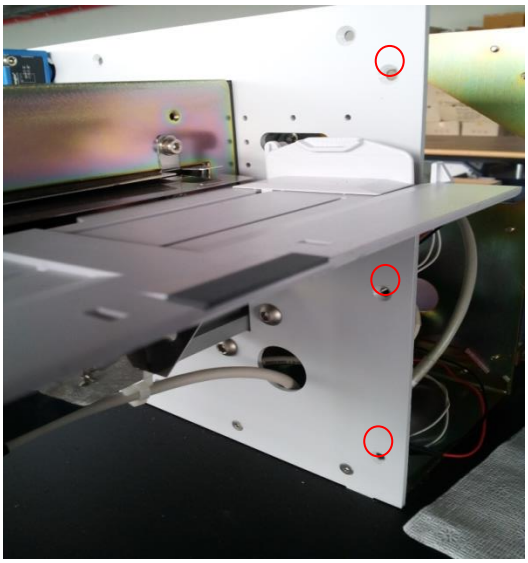
The rewinder is assembled in the same way as the unwinder.

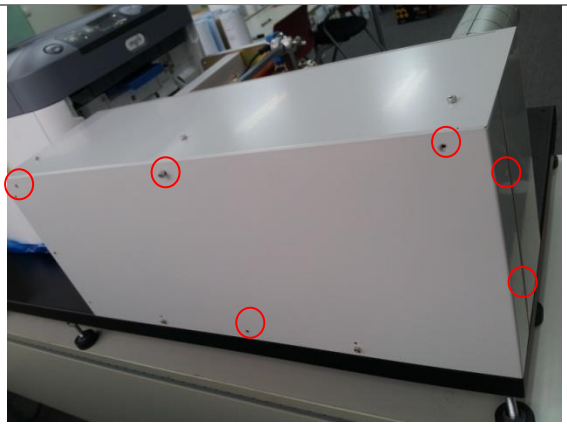
Accordingly, it can be assembled referring to **4.1.1How to disassemble the unwinder.**

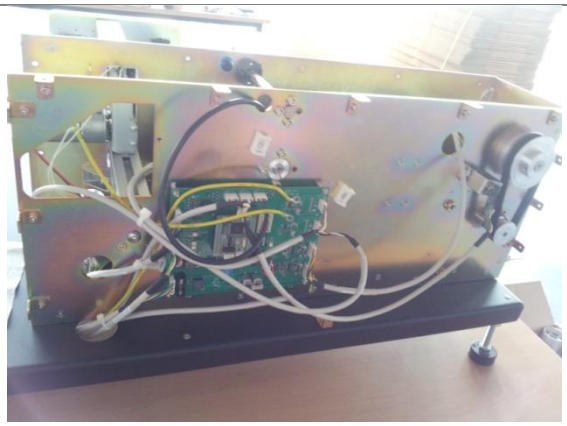
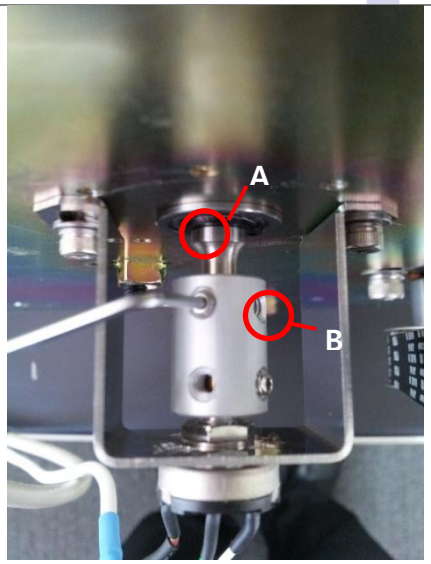
4.2Disassembly and Assembly of the Potentiometer

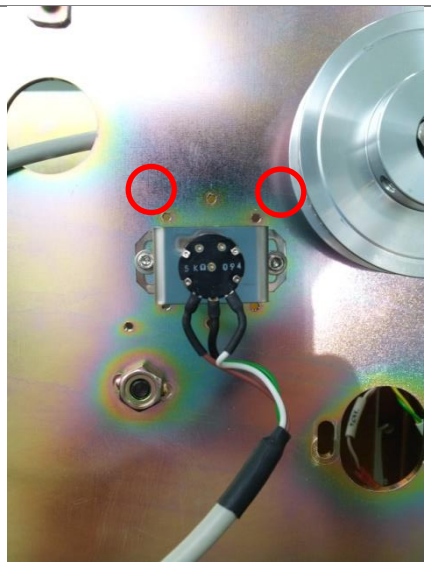
※ Please be sure that turn off the press station power and printer power before starting the operation. If the machineturns on during the operation, the precise parts which are Control Board, Fuse, Potentiometer and Motor get damaged.

4.2.1 How to disassemble the potentiometer

1.		Open the top cover of the press station using a hexagonal wrench (hexagonal wrench: 2.5″, 3″).
2.		Open the rear cover of the press station using a hexagonal wrench (hexagonal wrench: 2.5″, 3″).

3.		Open the rear cover of the press station using a hexagonal wrench (hexagonal wrench: 2.5″, 3″).
4.		After loosening out bolts, lift up by inserting fingers inside the circle marked with red.
5.		Open the rear cover of the press station using a hexagonal wrench (hexagonal wrench: 3″).

6.		Remove the Top cover and rear cover shown in the figure.
7.		When the rear cover of the press station is opened, you can see the potentiometer installed as shown in the figure.
8.		Unfasten the 2 set screws using a hexagonal wrench (hexagonal wrench: 1.5”). ※ *The SET SEREW at A is to securethe potentiometer shaft and the SET SCREW at B is to secure the potentiometer.*

9.		Remove the fixed bracket of the potentiometer by unfastening the 2 screws using a hexagonal wrench (hexagonal wrench: 2.5″).
10.		The potentiometer can be easily pulled out by hand.
11.		The potentiometer can be pulled out holding the sleeve by hand.

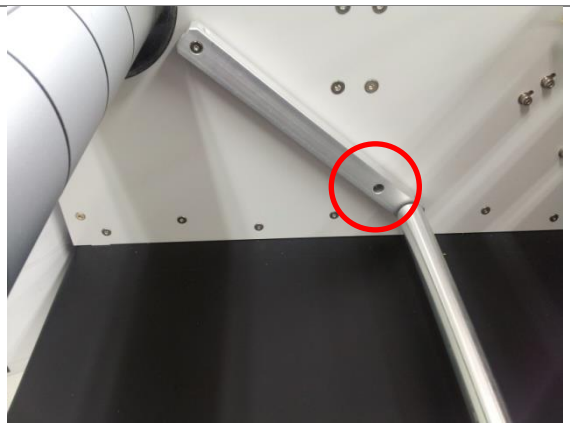
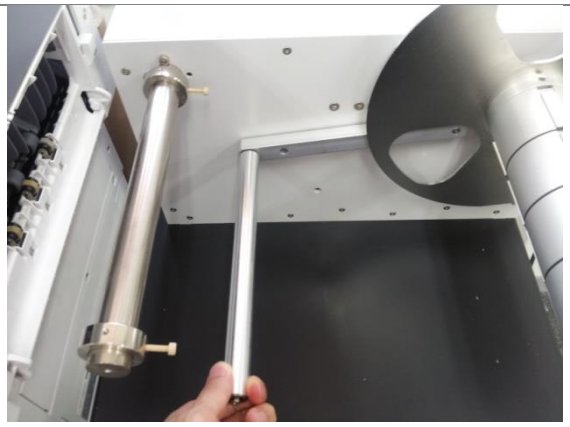
12.		Unfasten the nut shown in the figure by turning it counterclockwise using a hexagonal driver. Remove the bracket after removing the nut.
13.		Disassembly of the potentiometer is completed.

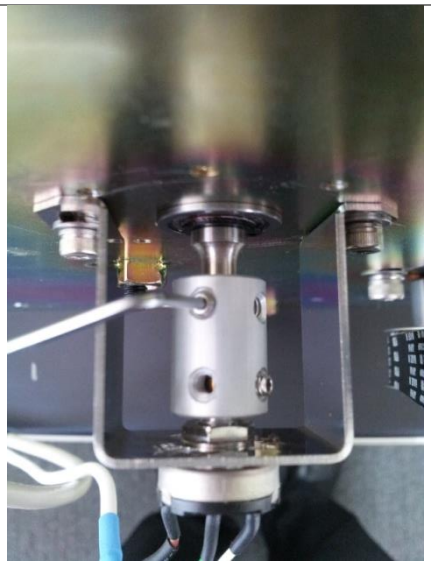
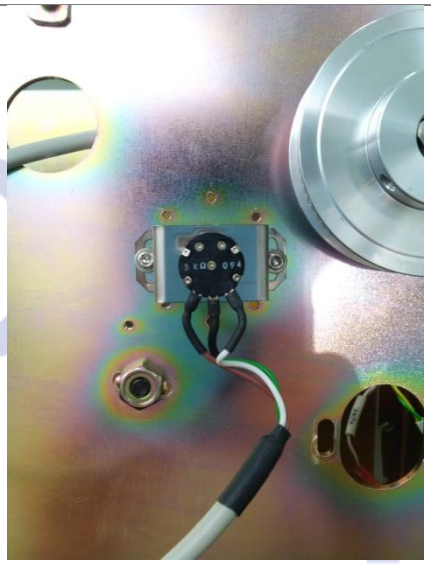
4.2.2 How to assemble the potentiometer

The potentiometer can be assembled by taking the procedures of **4.2.1 How to disassemble the potentiometer**in reverse order.

4.2.3 How to set up the potentiometer

One potentiometer is installed on the left and right tension bar in order to control the rotating speed of the unwinder and rewinder respectively. The method to set up the potentiometer is as follows:

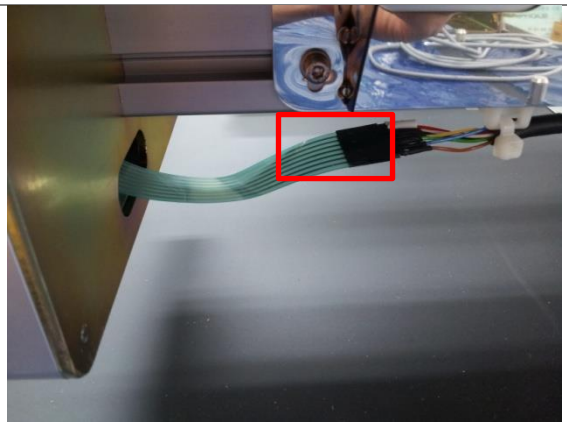
1.		The location of the unwindertension bar is aligned with the hole in the case. *※The purpose of the hole circled in red is to prevent the tension bar from being twisted when the unit is transported and to be used as the reference location when setting the unwinderpotentiometer.*
2.		The location of the rewindertension bar is aligned to the hole of the case. *※ The purpose of the hole circled in red is to prevent the Tension Bar from being twisted when the unit is transported and to be used as the reference location when setting the rewinder potentiometer.*
3.		When the tension bar of the unwinder part is lifted, theunwinder rotates. *※ When the unwindertension bar is lifted to the top, the unwinder rotates at the maximum speed.*
4.		When the tension bar is lifted after pressing the Rew button on the front panel, the rotational speed of the rewinder slows down. *※ When the rewindertension bar is lifted to the top, the rotating rewinder stops.*

5.		The speed can be controlled by turning the potentiometer sleeve after unfastening the 2 screws using a hexagonal wrench. When the sleeve is set at the appropriate speed, fasten the screws using the hexagonal wrench.
6.		Basic setup of potentiometer - Unwinder : Adjusts the speed of unwinder motor. - Rewinder: Adjusts the speed of rewinder motor. (when the Rew button is pressed)

4.3 Assembly and Disassembly of the Front Panel

※ Please be sure that turn off the press station power and printer power before starting the operation. If the machineturns on during the operation, the precise parts which are Control Board, Fuse, Potentiometer and Motor get damaged.

4.3.1 How to disassemble the front panel

1.		Turn off the power of the unit and disconnect the cable connected to the rear of the Front Panel. *※The cable is connected to J2 of the Control PBA.*
2.		Unfasten the Fixed Grip Lever by turning it counterclockwise. Then, unfasten the 4 screws using a hexagonal wrench (hexagonal wrench: 2.5″).
3.		The Panel part can be detached when the cable is disconnected and the 4 screws are removed. Remove the 4 screws in the red circles as shown in the photograph (hexagonal wrench: 2.5″).

4.		The photograph shows the panel assembly andthe membrane panel separated from each other.

4.3.2 How to assemble the front panel

The front panel can be assembled by following the procedures of **4.3.1 How to disassemble the front panel** in reverse order.

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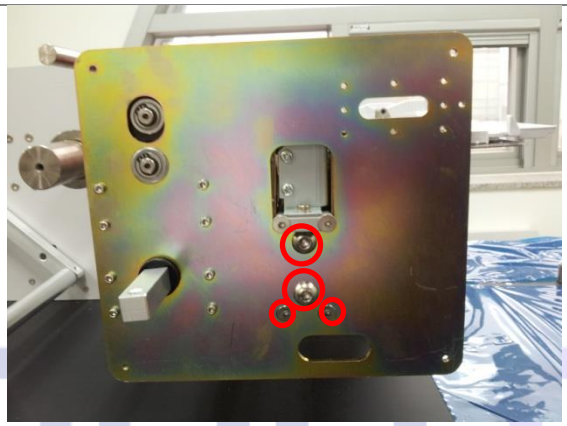
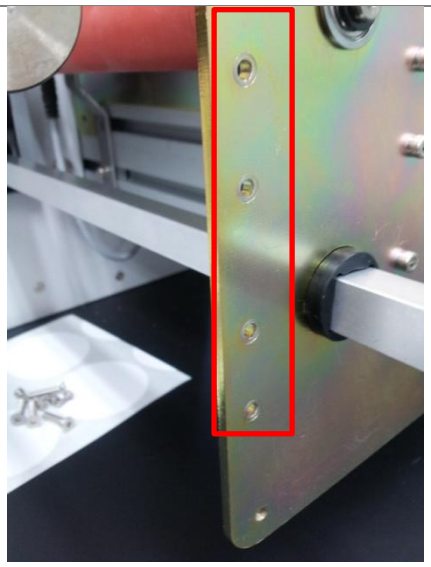
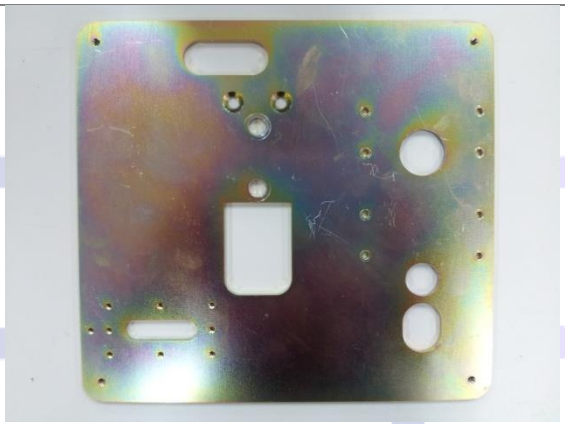
4.4 Disassembly and Assembly of the Feeding Unit

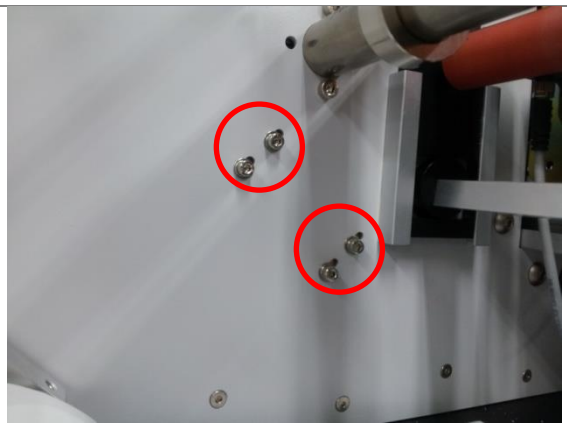
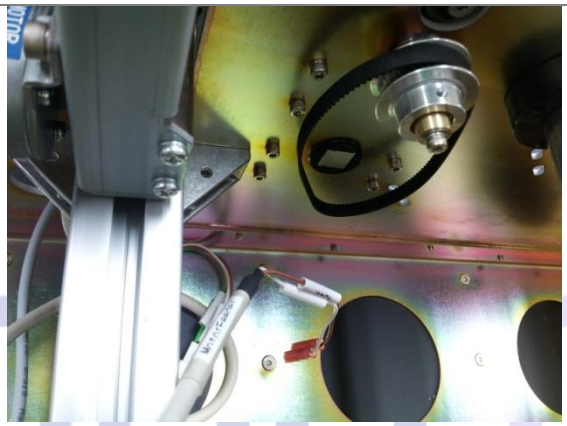
※ Please be sure that turn off the press station power and printer power before starting the operation. If the machineturns on during the operation, the precise parts which are Control Board, Fuse, Potentiometer and Motor get damaged.

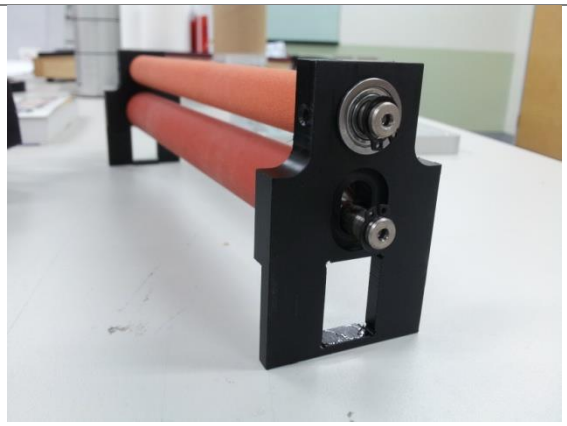
4.4.1 How to disassemble the feeding unit

1.		Whenthe front panel is removed referring to **4.3.1 How to disassemble the front panel,** only the part shown in the figure is left. Unfasten the 4 screws using a hexagonal wrench (hexagonal wrench: 2.5", 5").
2.		Unfasten the 8 screws using a hexagonal wrench (hexagonal wrench: 2.5").

3.		The photograph shows the look after the slide guide is removed.
4.		When the slide guide is removed, a hole appears through which the set screw can be unfastened. Unfasten the set screw using a hexagonal wrench. (hexagonal wrench: 2")
5.		When the set screw is unfastened as above, the slide square shaft can be moved. Unfasten the remaining set screws after moving the slidesquare shaft.

6.		Unfasten the rings using a ring remover.
7.		The photograph figure shows the look after the feeder bracket is disassembled.
8.		Remove the slide guide by unfastening the 8 screws at the back using a hexagonal wrench in the way shown in No. 2.

9.		As the feeding roller can be removed only after unfastening the feeding motor, unfasten the 4 screws fastened to the bracket of the feeding motor using a hexagonal wrench (hexagonal wrench: 3″).
10.		The belt can be unfastened as shown in the figure after removing the feeding motor.
11.		Unfasten screws using a hexagonal wrench (hexagonal wrench: 2.5″). Pull out the feed motor pulley by hand after unfastening the screws.

12.		The figure shows the feeding rollerafter it is removed.

4.4.2 How to assemble the feeding unit

The feeding unit can be assembled by following the procedures of **4.4.1 How to disassemble the feeding unit** in reverse order.

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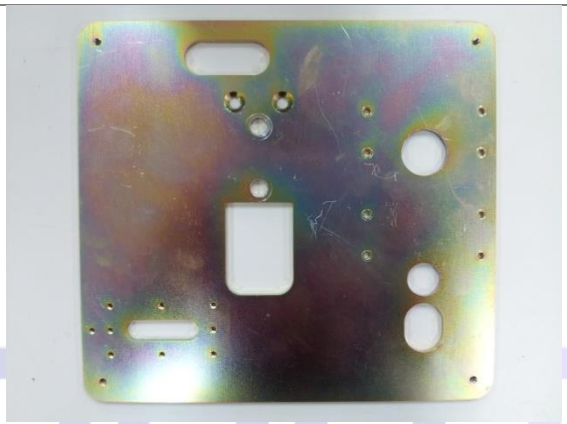
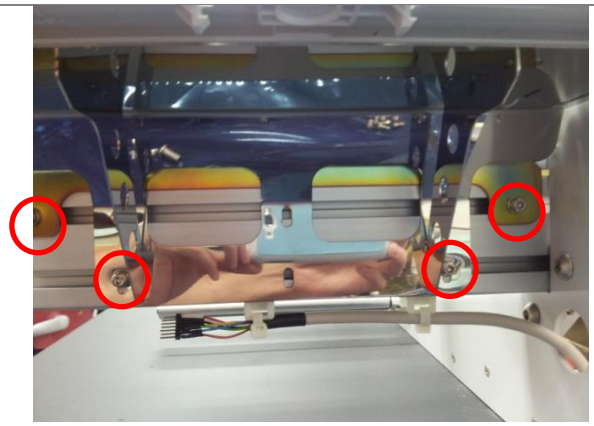
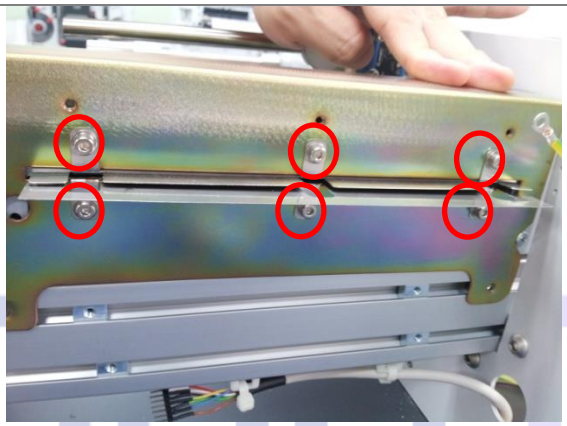
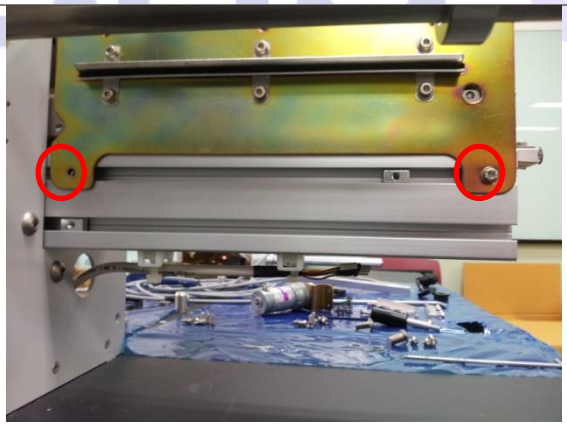
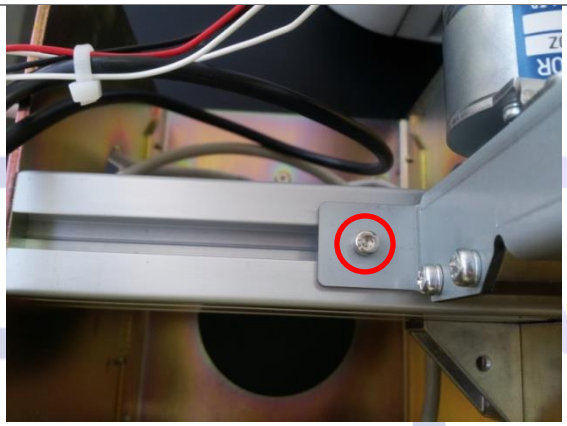
4.5 Disassembly and Assembly of the Cutter

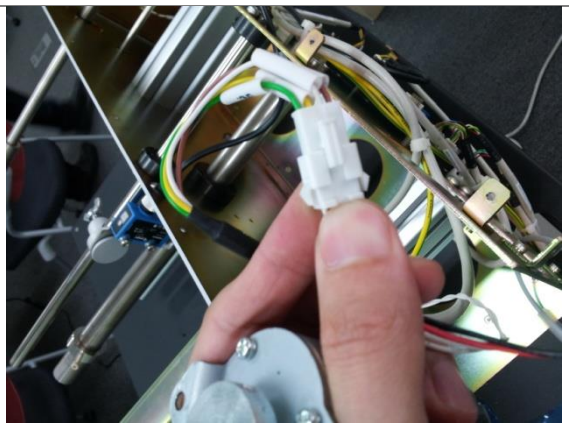
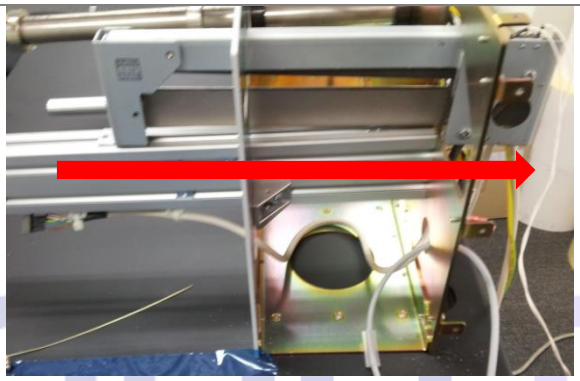
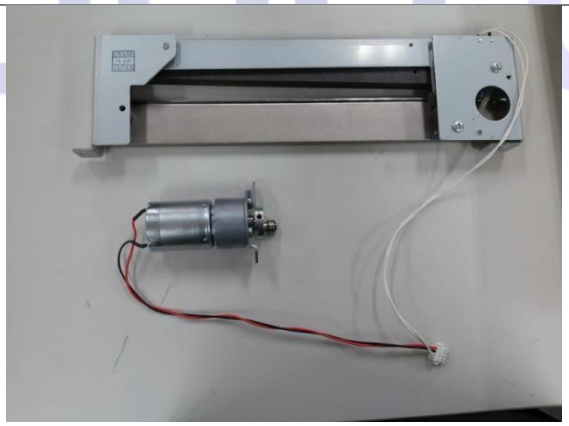
※ Please be sure that turn off the press station power and printer power before starting the operation. If the machineturns on during the operation, the precise parts which are Control Board, Fuse, Potentiometer and Motor get damaged.

4.5.1 How to disassemble the cutter

1.		Disassemble the feeder bracket in the same way as in **4.4.1 How to disassemble the feeding unit.**
2.		Unfasten the screw connected to the ground using a hexagonal wrench (hexagonal wrench: 3”).

3.		Remove the tray bottom after unfastening the 4 screws circle in red using a hexagonal wrench.
4.		Unfasten the screws of the cutter guide using a hexagonal wrench. There are a total of 12 screws on the left side and right side. (hexagonal wrench: 3″)
5.		Unfasten the screws of the cutter cover using a hexagonal wrench (hexagonal wrench: 3″).
6.		The photograph shows the cutter cover after it is removed.

7.		Unfasten the screws in front of the cutter using a hexagonal wrench (hexagonal wrench: 3″).
8.		Unfasten the screw at the opposite side (hexagonal wrench: 3″).
9.		Cutter can be disassembled only after removing the cutter motor. Disassemble the cutter motor after unfastening the screws in the red circles.

10.		Disconnect the cable of the cutter motor which connects to thecontrol PBA No. J9.
11.		Pull out the cutter in the direction shown in the photograph.
12.		Disassembly of the cutter is completed.

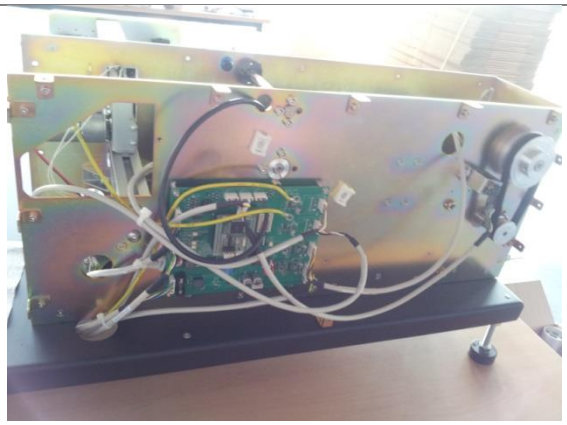
4.5.2 How to assemble the cutter

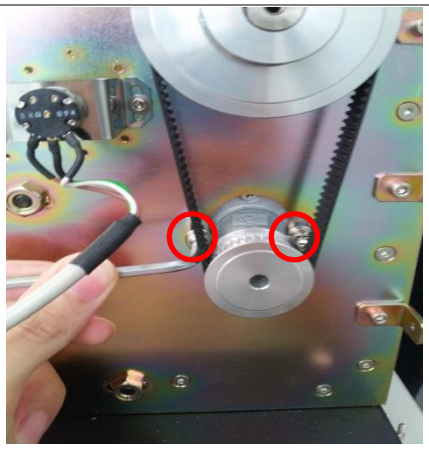
The cutter can be assembled by following the procedures of **4.5.1 How to disassemble the cutter** in reverse order.

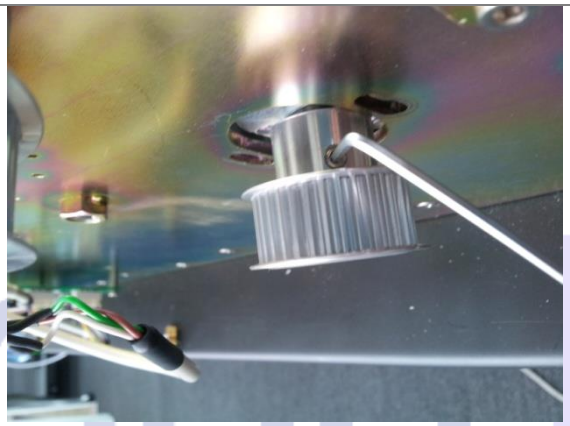
4.6 How to Replace the Motors

※ Please be sure that turn off the press station power and printer power before starting the operation. If the machineturns on during the operation, the precise parts which are Control Board, Fuse, Potentiometer and Motor get damaged.

4.6.1 How to replace the unwindermotor

1.		To remove the top cover and rear cover, follow the same procedure as in **4.1.1 How to disassemble the unwinderfrom no.1 to no.6**

2.		Unfasten the 2 screws using a hexagonal wrench (hexagonal wrench: 4”).
3.		When the 2 screws are unfastened as above, the unwindermotor can move up and down. Unfasten the belt slightly lifting the unwindermotor.
4.		Unfasten the 2 set screws using a hexagonal wrench (hexagonal wrench: 2.5”).

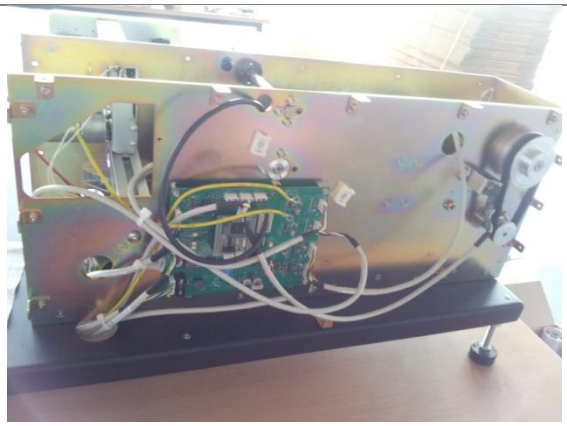
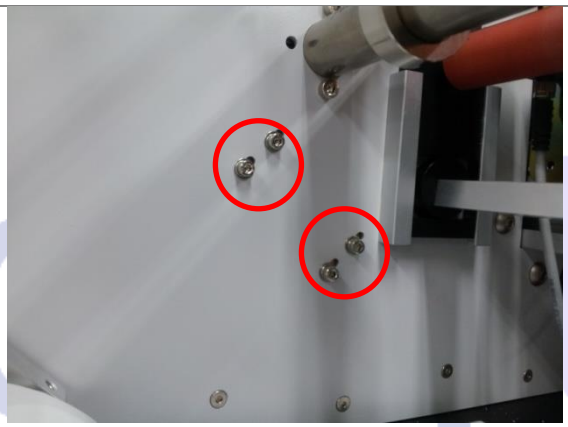
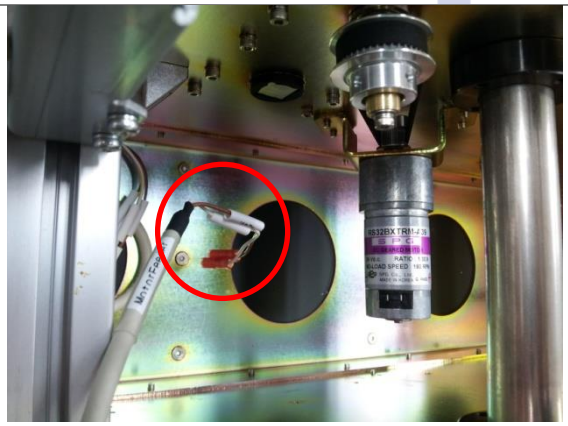
5.		Pull out the cable of the unwindermotor. ※ *Be careful with + and –polarities.*
6.		Unfasten the 2 set screws of the unwindermotor pulley using a hexagonal wrench (hexagonal wrench: 2.5“).
7.		Disassembly of the unwindermotor is completed.

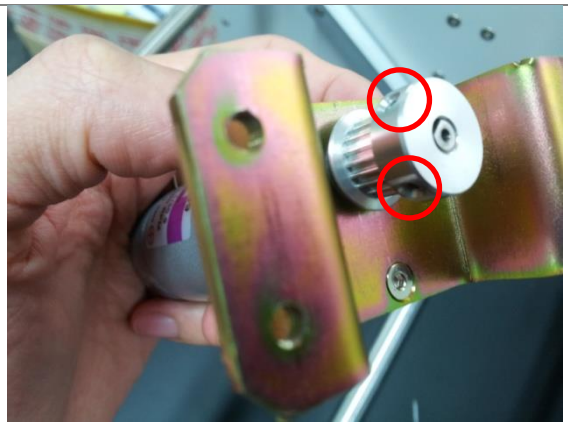
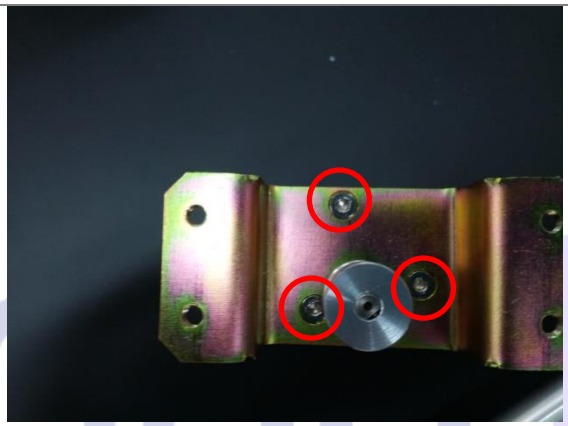
4.6.2How to replace the rewindermotor

The rewindermotor is assembled in the same way as that of theunwindermotor.

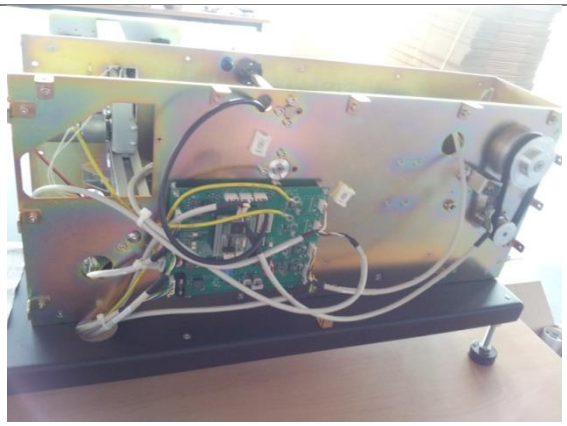
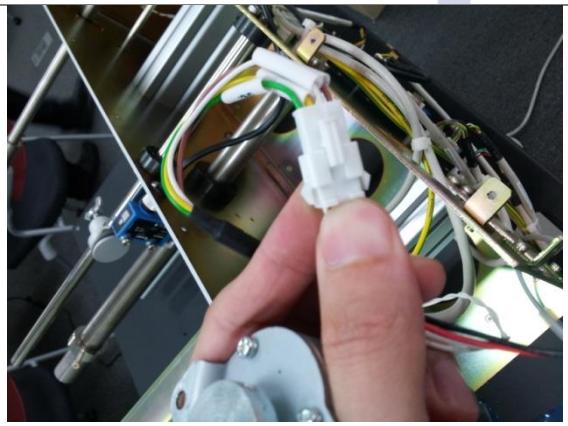
Accordingly, the rewinder can be disassembled in the same way as **4.6.1 How to disassemble the unwindermotor.**

4.6.3 How to replace the feed motor

1.		To remove the top cover and rear cover, follow the same procedure as in **4.1.1 How to disassemble the unwinderfrom no.1 to no.6**
2.		Unfasten the 4 screws of the feeding motor bracket using a hexagonal wrench (hexagonal wrench: 3”).
3.		Disconnect the cable of the feed motor. *※ Be careful with the + and – polarities.*

4.		Unfasten the two set screws of the feed motor pulley using a hexagonal wrench (hexagonal wrench: 2″)
5.		Disassemble the feed motor and the bracket using a hexagonal wrench (hexagonal wrench: 2.5″)
6.		Disassembly of the feed motor is completed.

4.6.4 How to replace the cutter motor

1.		To remove the top cover and rear cover, follow the same procedure as in **4.1.1 How to disassemble the unwinderfrom no.1 to no.6**
2.		Unfasten the 2 screws of the cutter motor attached at the rear part of the cutter using a hexagonal wrench (hexagonal wrench: 3″).
3.		Disconnect the cable of the cutter motor which connects to the control PBA No. J9.

4.		Disassembly of thecutter motor is completed.

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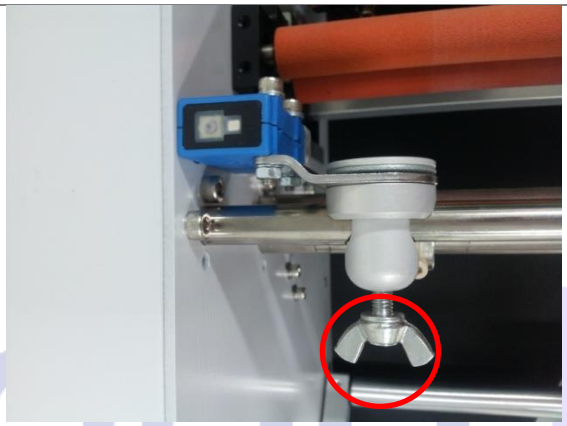
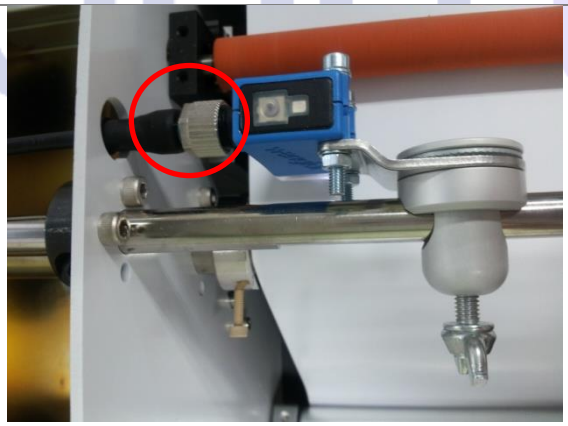
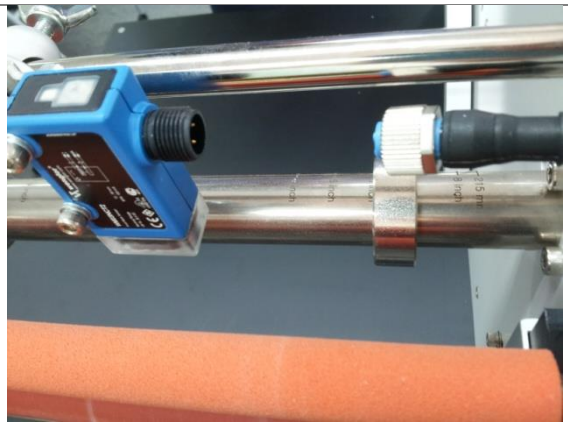
4.7 How to Replace the Sensors

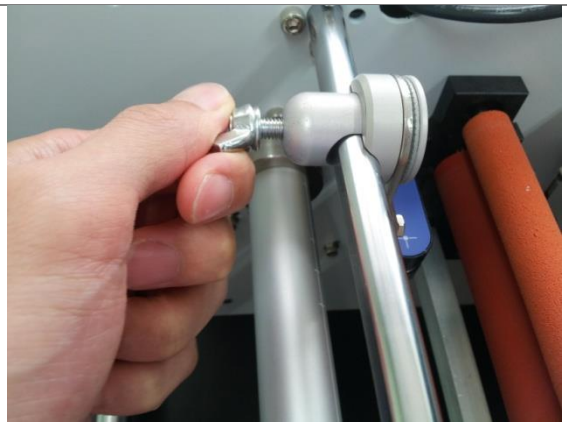
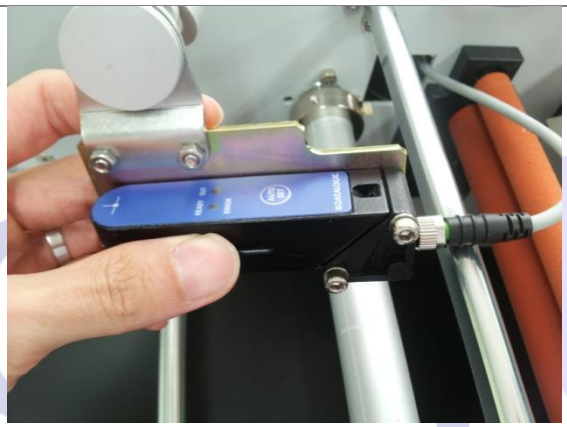
※ Please be sure that turn off the press station power and printer power before starting the operation. If the machineturns on during the operation, the precise parts which are Control Board, Fuse, Potentiometer and Motor get damaged.

4.7.1 How to replace the black mark sensor

1.		Unfasten the butterfly-shaped bolt secured to the Guide Bar of the Black Mark Sensor by turning it counterclockwise.
2.		If the butterfly-shaped bolt is unfastened, the sensor can be moved. Pull out the sensor to a proper extent, and unfasten the cable in the red circle by turning it counterclockwise.
3.		The figure shows the cable after it is disconnected. Once the cable is disconnected, pull out the black mark sensor.

4.		Unfasten the screws in the red circles using a hexagonal wrench (hexagonal wrench: 3”).
5.		Disassembly of the black mark sensor is completed.

4.7.2 How to replace the gap sensor

1.		Unfasten the gap sensor bracket mounted on the fixing bar using a hexagonal wrench.
2.		Sensor becomes movable when a butterfly-shaped bolt is fastened. Loosen a cable in the red circle by rotating counterclockwise.
3.		Disassemble the gap sensor and the bracket using a hexagonal wrench (hexagonal wrench: 3″).

4.		Disassembly of the gap sensor is completed.

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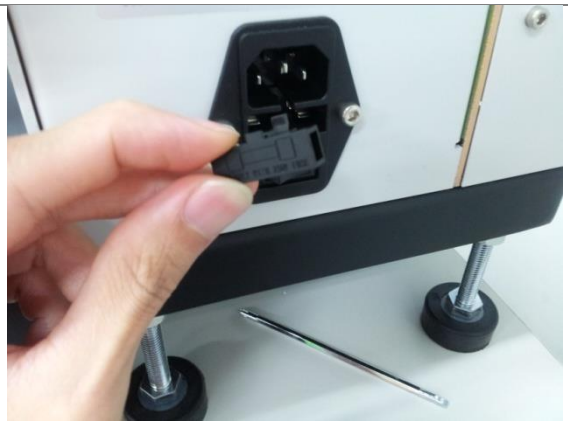
4.8 How to Replace the Fuses

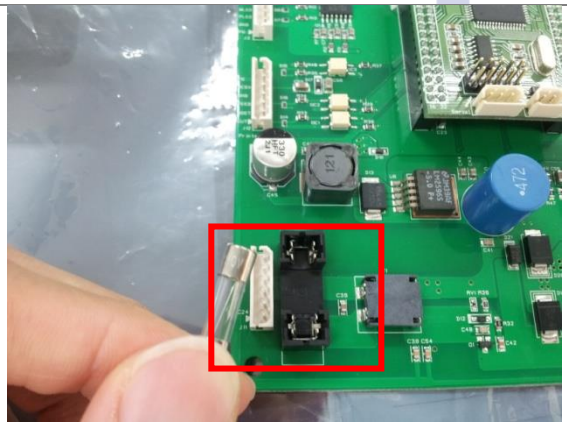
※ Please be sure that turn off the press station power and printer power before starting the operation. If the machineturnson during the operation, the precise parts which are Control Board,Fuse, Potentiometer and Motor get damaged.

4.8.1 How to replace the fuse of the power part

1.		Turn off the power switch and pullout the power cable.
2.		Open the fuse block using a thin flat head screwdriver.
3.		The photograph shows the look after the fuse block is removed.

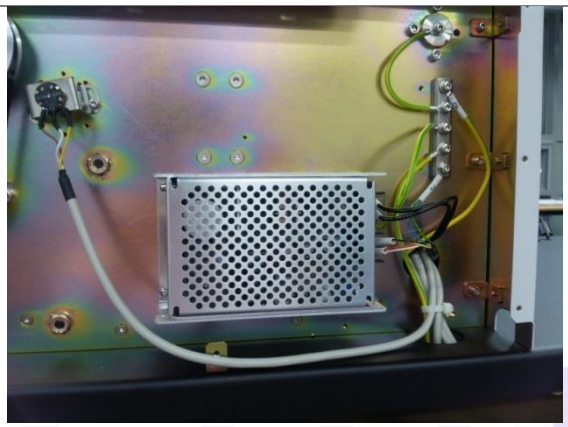
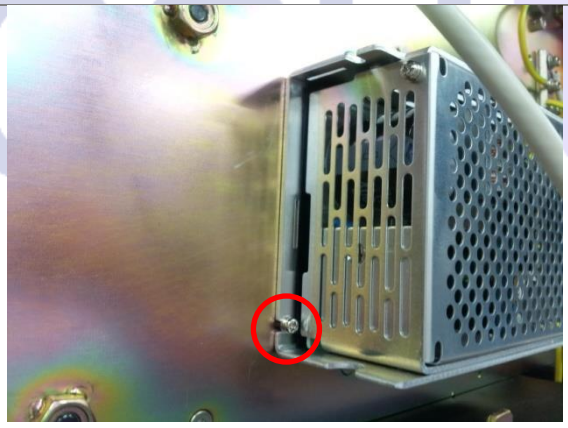
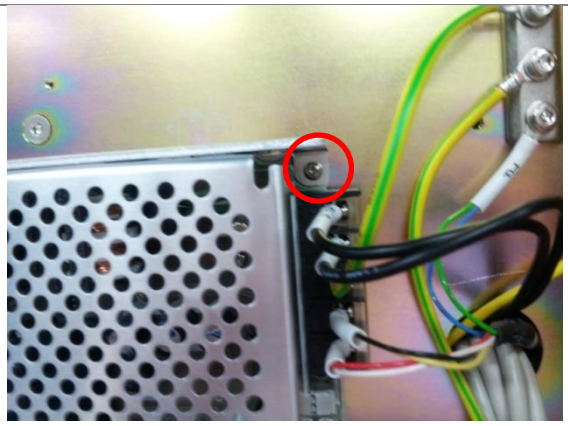
4.		The fuse can be replaced in the way shown above (Fuse: 3A).

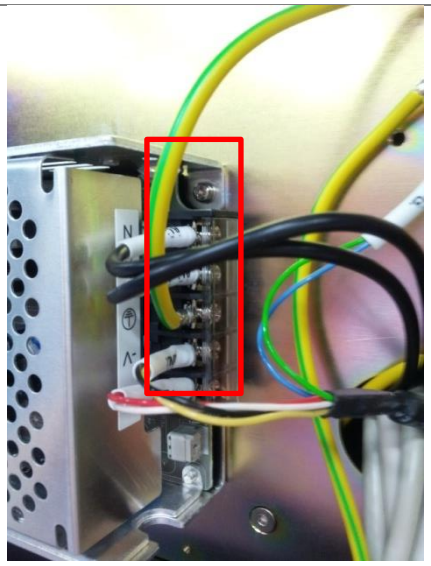
4.8.2 How to replace the control PBA fuse

1.		Open the rear case onthe unwinderside to find the control PBA. The 3A fuse is on the bottom left corner of thecontrol PBA.
2.		When needed, the fuse of the control board can be replaced in the way shown above.

4.9 How to Replace the SMPS

※ Please be sure that turn off the press station power and printer power before starting the operation. If the machineturns on during the operation, the precise parts which are Control Board, Fuse, Potentiometer and Motor get damaged.

1.		Open the rear case on the rewinder side to find the SMPS.
2.		The fuse is fixed by two cross recess bolts. First, unfasten the bolt on the bottom left corner.
3.		Unfasten the bolt on the top right corner.

4.		Unfasten the cable connected to each terminal using a phillips screwdriver.
5.		The SMPS can be replaced in the same way as shown above.

5. Printer ↔Press Station Interface

5.1 Interface connect signal

Pin-No	Signal name	Function	Input/output	Remarks
J1	CUT	Cut direction signal	In (Printer⇒press station)	
J2	M-DETECT	Cue Mark derection / cut end signal	Out (press station⇒ Printer)	
J3	FEED	Feed direction signal	In (Printer⇒press station)	
J4	ERR-N	Error indication signal from option unit to printer	Out (press station⇒ Printer)	N.A
J5	0VL	Logic GND		
J6	24V	DC +24V		N.A
J7	MODE (Reserved)	Signal to notify option unit of information or status from printer	In (Printer⇒press station)	N.A
J8	5V	DC +5V		
J9	NC	-		N.A
J10	0VL	Logic GND		N.A
J11	0VP	Power GND		N.A
J12	24V	DC+24V		N.A

5.2 DC Power supply provided from printer unit

Specifications of DC power supply provide from printer unit are below;
+5V DC power is supplied from J8 Pin.
Max current:0.2A
Voltage fluctuation range: 5V±5%
Return of +5V must connect to J5 and J10 as logic ground.

+24V DC power is supplied from J6 Pin and J12 Pin.
Max current:0.9A
Voltage fluctuation range: 24V±4V
Return of +24V must connect to J11 as power ground.

5.3 Purpose of Signal Lines

(1)M-DETECT

This is an output signal line from the option unit to printer. This indicates that the unit detects CUE mark(particular position of fan-fold paper), or the unit has finished cutting paper.

(2) CUT

This is and input signal line from the printer to the option unit. This is used to direct the option unit to cut paper.

(3) FEED

This is an input signal line from the option unit. This is used to direct the option unit to feed paper.

(4) ERR-N

This is an output signal line from the option unit the printer. This is used to notify the printer of an error condition (jam,no paper,etc.).

(5) MODE (Reserved)

This is an input signal line from the printer to the option unit. This is used to notify the option unit of some information or status from the printer. Actual purpose of this signal is to be determined.

6. Parts List

Assy	Part Name	SCREW	Parts no	Q'ty
Bobbin			01010000	
	Bobbin Body		01010100	1
	Bobbin Shaft		01010200	1
	Bobbin Shaft Front Sleeve		01010300	1
	Bobbin Shaft Rear Sleeve		01010400	1
	Bobbin Front Cap		01010500	1
	Bobbin Rear Cap		01010600	1
	Bobbin Front Washer		01010700	1
	Bobbin Front Wedge		01010800	3
	Bobbin Middle Wedge		01010900	3
	Bobbin Rear Wedge		01011000	3
	Bobbin Rear Align Cover_Unwinder		01011100	1
	Bobbin Bearing Housing		01011200	1
	Bobbin Bearing Unit_6202ZZNR		01011300	1
	Nobe_NKSM12-30		01011400	1
	Bobbin Shaft Pulley_Unwinder		01011500	1
	Unwinder DC Geared Motor		01011600	1
	Unwinder Motor Pulley		01011700	1
	Unwinder Motor Belt		01011800	1
		SET SCREW M5x5		8
		SET SCREW M5x10		2
		SHCS M5x12		1
		STWN15		2
		SHCS M4x12		8
		SFHS M5x15		6
		SHCS M3x6		6
		SFHS M5x10		2
		M5 Spring Washer		2
		M5 Flat Washer		2
		SET SCREW M4x6		2
Guide Roller			01020000	
	Guide Bar		01020100	1
	Guide Bar Set Collar		01020200	2
	Guide Bar Slide Stopper		01020300	2
	AI Frame_HFS6-3060-137-SC		01020400	1
		SHCS M5x15		2
		SHCS M5x10		6

		Plastic screw_PPSB4x20		2
Sensor Unit			01030000	
	Sensor Guide Bar		01030100	1
	Sensor Guide Bar Set Collar		01030200	2
	BM Sensor		01030300	1
	BM Sensor Holder		01030400	1
	BM Sensor Bracket		01030500	1
	BM Sensor Bracket Ring		01030600	1
	BM Sensor Bracket Washer		01030700	1
	CHOB06-20		01030800	1
	Gap Sensor		01030900	1
	Gap Sensor Bracket		01031000	1
		SHCS M5x10		6
		SHCS M5x15		2
		SHCS M4x25		2
		M4 Spring Washer		2
		M4 Flat Washer		2
		HEX NUT M4x08d		1
Tension bar			01040000	
	TensionRoller Roller Shaft		01040100	1
	TensionRoller Roller Sleeve		01040200	1
	TensionRoller Hinge Shaft		01040300	1
	TensionRoller Roller Crank Arm		01040400	1
	TensionRoller Roller Tension Arm		01040500	1
	TensionRoller Shaft Bearing-F688AZZ		01040600	2
	Tension Spring Bar_Top		01040700	1
	Tension Spring Bar_Bottom		01040800	1
		STWN08		2
		SHCS M5x20		1
		SFHS M4x10		2
		SET SCREW M4x6		4
		HEX NUT M4x08d		1
Potentiometer			01050000	
	Potionmeter Unit		01050100	1
	Potionmeter Mounting Bracket		01050200	1
	Potionmeter Sleeve		01050300	1
		SET SCREW M3x5		2
		SHCS M3x6		2
		M3 Spring Washer		2
		M3 Flat Washer		2

Cutter			02010000	
	Cutter Cover		02010100	1
	Cutter Guide_Front Top		02010200	2
	Cutter Guide_Front Bottom		02010300	1
	Cutter Guide_Rear Bottom		02010400	1
	Cutter		02010500	1
	Cutter DC Geared Motor		02010600	1
	AI Frame_HFS6-3060-410-TPW		02010700	1
	AI Bracket Slot_HBLFSNK6-SET		02010800	2
	HNTT6-3		02010900	1
	HNTT6-4		02011000	10
	Cutter Frame Block		02011100	1
		SHCS M4x6		12
		M4 Spring Washer		12
		M4 Flat Washer		12
		SFHS M5x20		2
		SBHCS M8x15		5
		SHCS M8x18		2
Feeding unit			02020000	
	Paper Feed Roller		02020100	1
	Paper Pressure Roller		02020200	1
	Slide Square Shaft		02020300	1
	Slide Guide		02020400	4
	Slide Top		02020500	2
	Slide Bottom		02020600	2
	Slide Bearing		02020700	2
	Slide Cam Roller		02020800	2
	Slide CoilSpring WH8-20		02020900	4
			02021000	
	F688AZZ		02021100	4
	FixedGrip Lever		02021200	1
	Feeder Bracket		02021300	1
	Feed DC Geared Motor		02021400	1
	Feed Motor Bracket		02021500	1
	Feed Motor Pulley		02021600	1
	Feed Roller Pulley		02021700	1
	Feed Motor Belt		02021800	1
	Feed Roller Clutch Bushing		02021900	1
	Feed Roller Clutch Cap		02022000	1
	Tray Bottom		02022100	1
	Tray Guide		02022200	1

		STWN08		4
		SET SCREW M3x5		3
		SFHS M3x6		3
		SHCS M3x8		9
		M3 Spring Washer		1
		SHCS M4x10		4
		M4 Spring Washer		4
		M4 Flat Washer		4
Panel			02030000	
	Panel Assembly		02030100	1
	Membrane Panel		02030200	1
		SBHCS M4x6		4
		SFHS M4x20		4
		SBHCS M8x15		2
		SFHS M5x12		2
Bobbin			03010000	
	Bobbin Body		03010100	1
	Bobbin Shaft		03010200	1
	Bobbin Shaft Front Sleeve		03010300	1
	Bobbin Shaft Rear Sleeve		03010400	1
	Bobbin Front Cap		03010500	1
	Bobbin Rear Cap		03010600	1
	Bobbin Front Washer		03010700	1
	Bobbin Front Wedge		03010800	3
	Bobbin Middle Wedge		03010900	3
	Bobbin Rear Wedge		03011000	3
	Bobbin Front Align Cover_Rewinder		03011100	1
	Bobbin Rear Align Cover_Rewinder		03011200	
	Bobbin Bearing Housing		03011300	1
	Bobbin Bearing Unit_6202ZZNR		03011400	1
	Nobe_NKSM12-30		03011500	1
	Bobbin Shaft Pulley		03011600	1
	Rewinder DC Geared Motor		03011700	1
	Rewinder Motor Pulley_Rewinder		03011800	1
	Rewinder Motor Belt		03011900	1
		SET SCREW M5x5		8
		SET SCREW M5x10		2
		SET SCREW M4x6		2
		SHCS M5x12		1

		STWN15		2
		SHCS M4x12		8
		SFHS M5x15		6
		SHCS M3x6		6
		SFHS M5x10		2
		M5 Spring Washer		2
		M5 Flat Washer		2
Guide Roller			03020000	
	Guide Bar		03020100	1
	Guide Bar Set Collar		03020200	2
	Guide Bar Slide Stopper		03020300	2
	AI Frame_HFS6-3060-137-SC		03020400	1
		SHCS M5x15		2
		SHCS M5x10		6
		Plastic screw_PPSB4x20		2
Tension bar			03030000	
	TensionRoller Roller Shaft		03030100	1
	TensionRoller Roller Sleeve		03030200	1
	TensionRoller Hinge Shaft		03030300	1
	TensionRoller Roller Crank Arm		03030400	1
	TensionRoller Roller Tension Arm		03030500	1
	TensionRoller Shaft Bearing-F688AZZ		03030600	2
	Tension Spring Bar_Top		03030700	1
	Tension Spring Bar_Bottom		03030800	1
		STWN08		2
		SHCS M5x20		1
		SFHS M4x10		2
		SET SCREW M4x6		4
		HEX NUT M4x08d		1
Potentiometer			03040000	
	Potionmeter Unit		03040100	1
	Potionmeter Mounting Bracket		03040200	1
	Potionmeter Sleeve		03040300	1
		SET SCREW M3x5		2
		SHCS M3x6		2
		M3 Spring Washer		2
		M3 Flat Washer		2
Control				
	Control Board		04010100	1
Power				

	DC Power Supply(24V)		04020100	1
	Power Block		04020200	1
	FUSE 3A		04020300	1

VALLOY Incorporation

Room 403, Haeju Bldg., #639-5, Ilwon-dong, Kangnam-gu, Seoul, Korea 135-231

Tel : +82-2-6082-5022 Fax : +82-2-445-5441 e-mail : support@valloy.net

company URL : www.valloy.com

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