

# RX II Series User Manual



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232003570G (04)

# NOTICE

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# **Important Information**

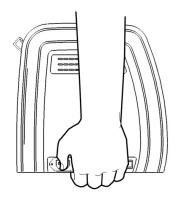
Thank you for purchasing the GCC RX II Series Cutting Plotter.

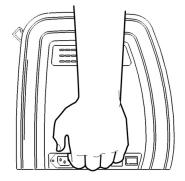
Before you use the cutting plotter, please make sure that you have read the safety precautions and instructions below.



# SAFETY PRECAUTIONS!

For safety concern, please always hold the cutter firmly <u>from the bottom</u> while moving it. Do not move the cutter by clasping the depression area on both sides.





O (Correct)

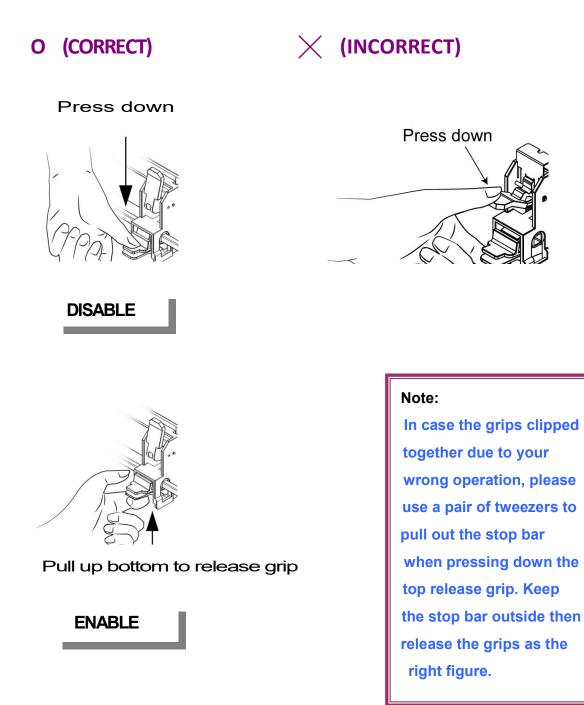
X (Incorrect)

- > Do not shake or drop the blade holder, a blade tip can fly out.
- During an operation, do not touch any of the moving parts of this machine (such as the carriage). Also be careful to make sure that clothing and hair do not get caught.
- Always connect the power cable to a grounded outlet.
- Always use the accessory power cable which is provided. Do not wire the power cable so that it becomes bent or caught between objects.
- Do not connect the power cable to branching outlet to which other machines are also connected, or use an extension cable. There is danger of overheating and of mis-operation of the machine.
- Keep the tools away from children where they can reach.
- Always put the pinch rollers within the white marks.



# Warning

Never press the top release grip and pull the bottom release grip at the same time as the pictures shown below:





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# **Chapter 1 General Information**

# **1.1 Introduction**

RX II series cutting plotters have been designed to produce computer-generated images or perform contour cutting on sheets or rolls of vinyl media.

· RX II-61	for media width: 50mm (1.97") ~ 810mm (31.88")
· RX II-101S	for media width: 50mm (1.97") ~ 1326mm (52.2")
· RX II-132S	for media width: 50mm (1.97") ~ 1635mm (64.37")
· RX II-183S	for media width: 50mm (1.97") ~ 2145mm (84.44")

This manual covers the following models of RX II series cutting plotters:

## 1.2 Package Items

The package of the RX II series contents the items listed below, please check carefully.

If you find any item missing, please consult your local dealer for further assistance.

Standard Item	
1. Cutting Plotter	
2. Stand Set ( for RX II-101S/132S/183S only )(Optional for RX II-61)	
• 2 piece of T-shape stand	
• 1 piece of stand beam	1
• 18 pieces of M6 screws	1
<ul> <li>1 piece of M5 L-shape hexagon screw driver</li> </ul>	
• 1 piece of Installation Guide for Stand Set	



. set of Roll Media Flange (2 pieces)			
	V	V	
L set of Roll Holder (2 pieces)	V	V	
L set of Roll Holder Guide Bushes (4 pieces)	V	V	
L set of Roll Holder Support (2 pieces)	V	V	
L piece of M6 L-shape hexagon screw driver	V	V	_
L piece of Installation Guide for Roll Holder		V	1
L piece of M5 L-shape hexagon screw driver		V	
L set of Desktop Support Brackets (2 pieces)		V	
1 pieces of Plastic Foot		V	
1 pieces of M4 screws		V	
L2 pieces of M6 screws		V	
1 piece of M4 L-shape hexagon screw driver		V	
ccessories			
1 piece of AC power Cord			
1 piece of data cable (USB cable: 3m) 1 piece of Ethernet cable			
1 set of Blade Holder Assembly (Installed in tool c	arriage of the cutting	plotter)	
1 piece of Blade (Installed in Blade Holder)		,	1
1 piece of Safe Blade			

# **1.3 Product Features**

The following are the main features of the RX II series cutting plotters:

- Triple port (USB, serial and Ethernet port) connectivity
- Up to 600-gram cutting force
- Up to 1530 mm per second (60 ips) cutting speed (at 45° direction)
- Can work with up to 0.8mm (0.03in) thick material
- Guaranty 10-meter tracking
- User friendly and multi-language control panel
- Enhanced Automatic-Aligning System (AAS II) for automatic contour cutting
- Ingenious media basket (optional item)





#### **1.4 Appearance of RX II Series**

#### 1.4.1 The Front View (Figure 1-1)

#### Grid Drums - move

the media back and forth during operation.

**Tool Carriage** – performs the cutting with the installed blade and pen with AAS module.

**<u>Control panel</u>** – consists of 14 control keys and 1 LED and 1 LCM showing messages and menus.

#### Slicer Groove -

slice off the extra media easily along this groove.

> <u>**Platen**</u> – provides the surface for holding and supporting media while performing cutting.

<u>**Cutting Pad**</u> – provides the protection of blade when the blade is cutting.

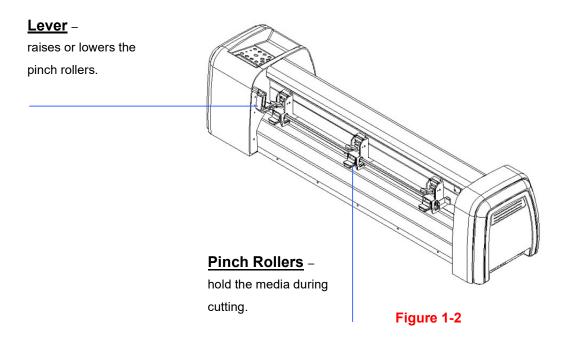
# Alignment Rulers -

media can be aligned with the clear guide line marks.

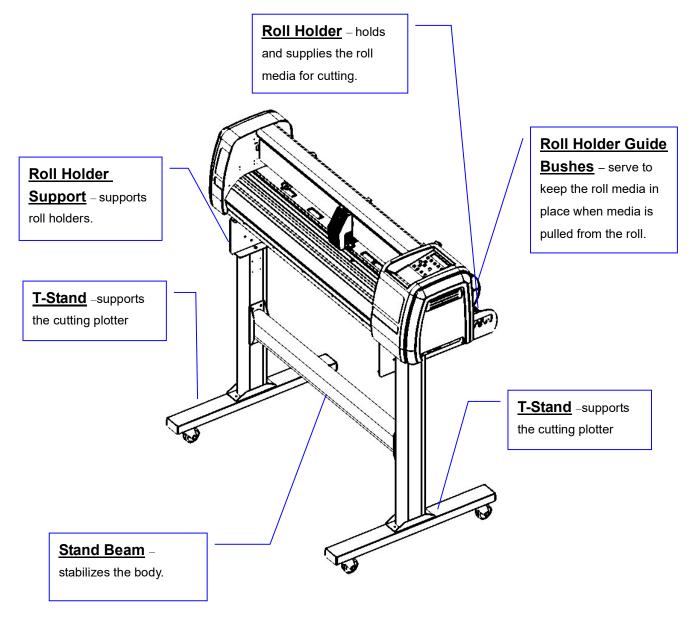
#### Figure 1-1



### 1.4.2 The Back View (Figure 1-2)



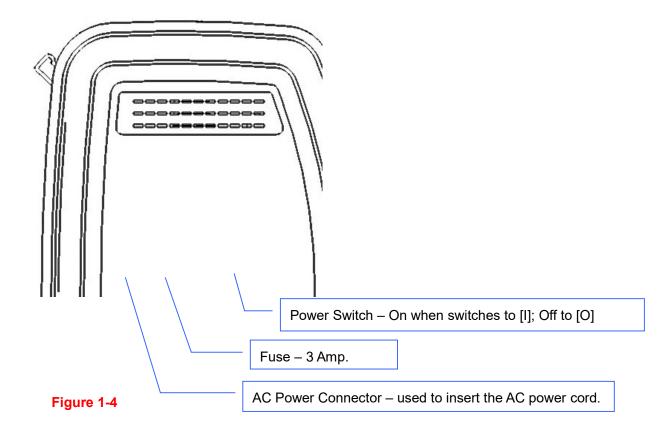
#### 1.4.3 The Whole View of RX II Series (Figure 1-3)



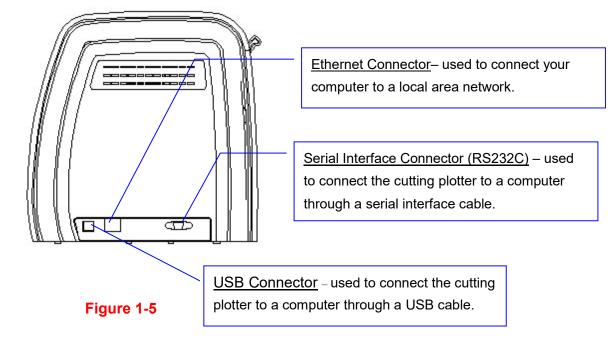




#### 1.4 4 The Left-hand Side (Figure 1-4)



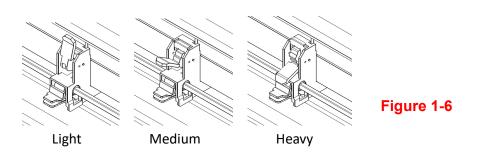
1.4.5 The Right-hand Side (Figure 1-5)



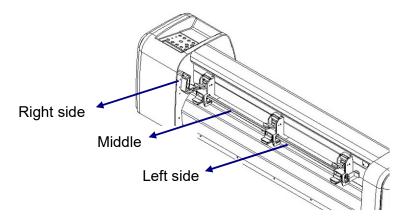


#### 1.4.6 Pinch roller (Figure 1-6)

The Multi-Pressure Pinch Rollers give users three pressure settings to better cater to the different types of media that they are working with, for example, set light hold-down pressure of the pinch roller in the middle when cutting thin materials such as window tinting film.



Please note that the pressure of the pinch rollers on the left and right sides should always be the same or heavier than the pinch rollers in the middle. The pressure of the pinch rollers on the left and right sides should be set to the same pressure setting. You can use the following combinations of the pinch rollers. (Table 1-1)



Left side	Middle	Right side
Heavy	Medium	Heavy
Medium	Medium	Medium
Medium	Light	Medium

Table 1-1

# Chapter 2 Installation

#### 2.1 Precaution

Please read below information carefully before you start installation.

#### Notice 1

- Make sure the power switch is off before installing the cutting plotter.
- Carefully handle the cutter to prevent any injuries.

#### **Notice 2** Choosing a proper place before setting up the cutting plotter

Before installing your cutting plotter, select a suitable location, which meets the following conditions.

- The machine can be approached easily from any direction.
- Keep enough space for the machine, accessories and supplies.
- Keep the working area stable, avoiding sever vibration.
- Keep the temperature between 15 and  $30^{\circ}$ C (60-86oF) in the workshop.
- The relative humidity of the working environment should be between 25% and 75%.
- Protecting the machine from dust and strong air current.
- Preventing the machine from direct sunlight or extremely bright lighting.

#### **Notice 3** Connecting the Power Supply

Check the plug of the power cord to see if it matches with the wall outlet. If not, please contact your dealer.

- Insert the plug (male) into a grounded power outlet.
- Insert the other end (female) of power cord into the AC connector of cutting plotter.

#### **Notice 4** Tightening or Loosing Screws with Screwdriver

Whether manual or electric screwdriver, be careful not to use excess torque force when tightening or loosing screws. When tightening or loosing iron and stainless steel screws, please refer to the following screw torque standard table, other materials screws are not included.

Screw	Torque value (kgf-cm)
diameter	Torque standard for high hardness materials
M3	6
M4	16
M5	30
M6	50



# 2.2 Stand & Flexible Media Support System (for RX II-101S/132S/183S)

#### Step 1

Please examine supplied items in the accessory box of stand carton:

- 2 pieces of base beams
- 2 pieces of side beams
- 1 piece of stand beam
- 20 pieces of M6 screws
- 1 piece of M5 L-shape hexagon screw driver
- 1 piece of Installation Guide for Stand Set

#### Step 2

- Remove the plotter body and the accessories from the shipped carton.
- Assemble the base beam to the side beam with 2 screws to form a T-shape stand. (See Figure 2-1)

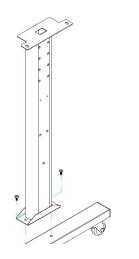
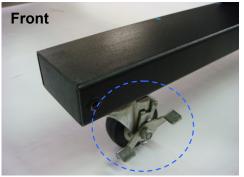


Figure 2-1

Please pay attention to the direction of the base beam (the wheel on the front end of the beam comes with a break while the rear one is on its own).





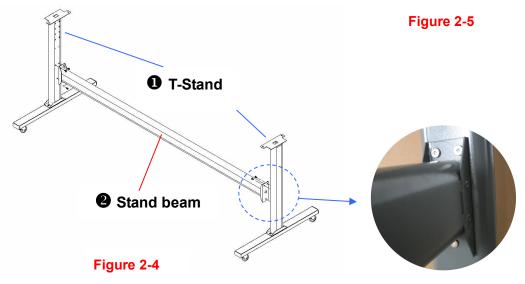






#### Step 3

Place the stand beam upright on the T-stand and follow number **12** to assemble (See Figure 2-4 & 2-5). There is hexagon socket head screws fasten on the T-stand on both side taken as locating pins.

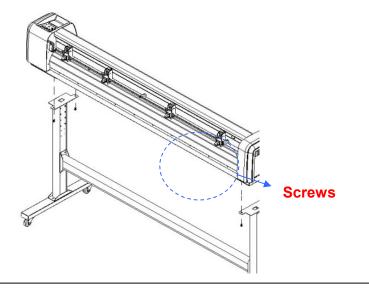


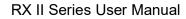
## Step 4

Position the stand beam perpendicularly to part **①** and put the screws into the holes and tighten them as Figure 2-5. Then the complete picture of stand will be like Figure 2-4.

#### Step 5

Remove the cutting plotter from the carton. Position your stand under the plotter, on the bottom of the plotter, there is one hole on each side in the position corresponding to the locating pins, so the locating pins can be located into the holes. Then insert the screws into the holes on the stand to fix the plotter and tighten them up as shown in Figure 2-6.

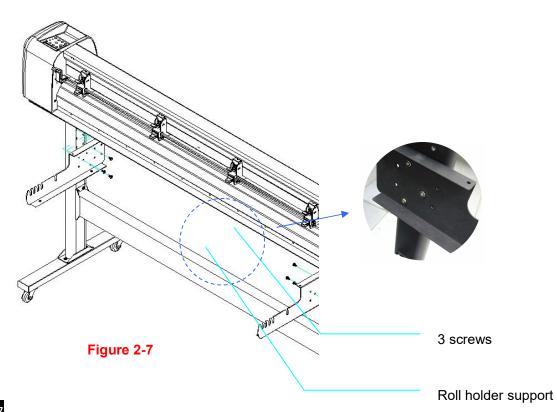




# GCC

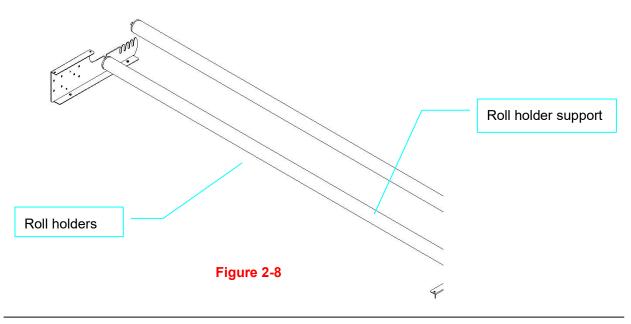
# Step 6

Insert the roll holder support with the screws into the holes of the stand, and then tighten them up as shown in Figure 2-7. You could decide roll holder support's position by inserting into different holes.



#### Step 7

Place two roll holders onto the roll holder support and ensure the white protrusion is wedged in the groove. (Figure 2-8)





# Step 8

Turn the screw counter-clockwisely for around three times after unpacking the roll holder (Figure 2-9).



Figure 2-9

# Step 9

Insert the end of the roll holder without the damper into the left roll holder support and then insert the end of the roll holder with the damper into the right roll holder support and ensure the white protrusion is wedged in the groove (Figure 2-10).



Figure 2-10



# Step 10

Tighten the screw on the damper until it is securely attached to the right roll holder support (Figure 2-11).

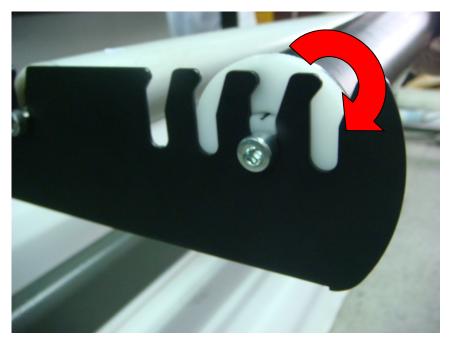
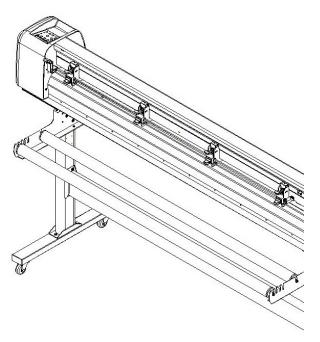


Figure 2-11

# Step 11

Lastly, the complete picture will be shown like below. (Figure 2-12)



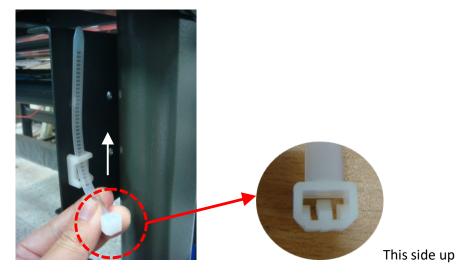




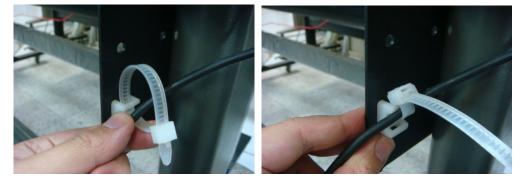
# 2.3 USB Cable Tie and Saddle

The USB cable tie and saddle assembly for the stands with Flexible Media Support System only.

Step 1 Insert the cable tie into the upper hole of cable saddle from bottom to top.



**Step 2** Place the USB cable into the cable tie and tighten the cable tie.

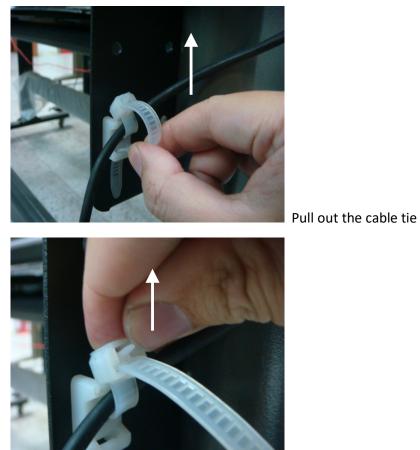


Step 3 Insert the cable tie end into the lower hole of cable saddle to finish the job.

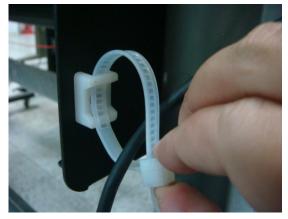




Untied way: pull out the cable tie  $\rightarrow$  pull up the pin  $\rightarrow$  release the cable tie.



Pull up the pin



Release the cable tie



# 2.4 Desktop Flexible Media Support System (For RX II-61 only)

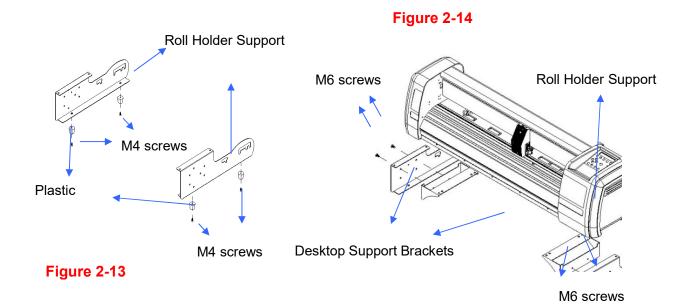
### Step 1

#### Please examine the following items in stand carton's accessory box:

- 1 set of Roll Media Flange (2 pieces)
- 1 set of Roll Holder (2 pieces)
- 1 set of Roll Holder Guide Bushes (4 pieces)
- 1 set of Roll Holder Support (2 pieces)
- 1 set of Desktop Support Bracket (2 pieces)
- 4 pieces of Plastic Foot
- 4 pieces of M4 screws
- 12 pieces of M6 screws
- 1 piece of M4 L-shape hexagon screw driver
- 1 piece of M5 L-shape hexagon screw driver
- 1 piece of M6 L-shape hexagon screw driver (for adjusting the screws of Roll Holders)
- 1 piece of Installation Guide for Roll Holder

#### Step 2

Put the 4 Plastic Foot under the Roll Holder Support and insert the M4 screw into the hole of Plastic Foot and tighten them with the M4 L-shape screw driver. (Figure 2-13)



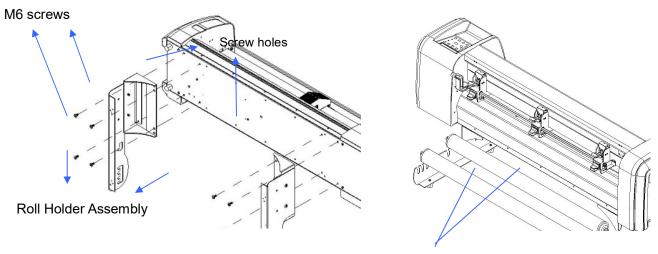


### Step 3

Position the Desktop Support Brackets beside the Roll Holder Support and insert M6 screws into the Roll Holder Support and tighten them with M6 L-shape screw driver. (Refer to Figure 2-14).

# Step 4

Put the bottom of machine in lateral, and position the Roll Holder Assembly beside the bottom of the machine. Then, insert the M6 screws into the holes of Roll Holder support assembly and tighten them with M6 L-shape screwdriver. Like Figure 2-15.



#### Figure 2-15

Roll Holders

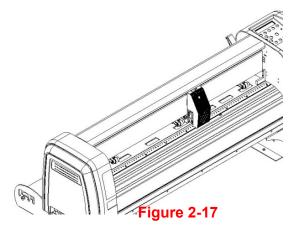
Figure 2-16

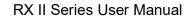
#### Step 5

Place the two roll holders into the holes of Roll Holder Support (Figure 2-16).

#### Step 6

The complete Desktop Media Support System will be shown as in Figure 2-17.







# 2.5 Instruction of Damper Roller

Turn the wheel as instructed below to adjust damping. The bigger the number is, the stronger the damping. The volume symbol sticker indicates the damping level (Figure 2-18,19).

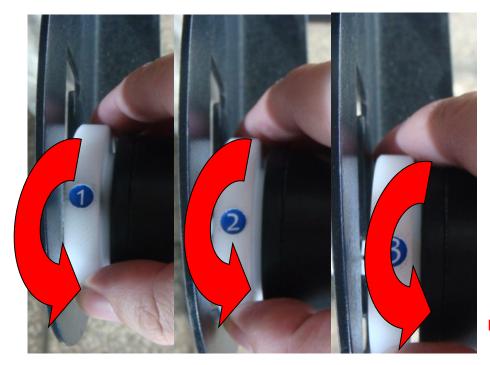


Figure 2-18



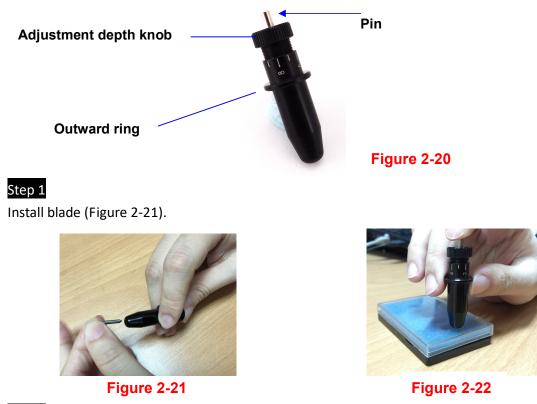
Figure 2-19



#### 2.6 Blade and Blade Holder Installation

#### 2.6.1 Blade Installation

Figure 2-20 is the illustrator of the blade holder. Insert a blade into the bottom of the blade holder and remove the blade by pushing the pin. Make sure that your fingers are away from the blade tip.



# Step 2

Push the blade to the bottom of the blade holder. (Figure 2-22).

# Step 3

Adjust the blade tip to suitable length by screwing "Blade tip adjustment screw" clockwise or count-clockwise. (Figure 2-23).



Figure 2-23

#### Tips:

"The proper length" means the blade's length is adjusted 0.1mm more than film's thickness. That is, if the thickness of film is 0.5mm, then blade's length is properly adjusted 0.6mm and it can completely cut through the film layer yet avoid penetrating the backing.



# 2.6.2 Blade Holder Installation Step 1

Insert the blade holder into tool carriage. Please note the outward ring of the holder must put into the grooves of carriage firmly (see Figure 2-24), then fasten the case (Figure 2-25).



Figure 2-24

Figure 2-25

## Step 2

Use the reversing steps to remove the blade holder.

#### Step 3

Eject the blade. Push "Blade eject pin" to eject blade when the blade needs to be replaced.

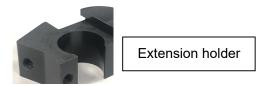
#### Caution!!

The blade will lose its sharpness after a period of usage; the cutting quality might be affected. By increasing the cutting force, it might do the trick. However, once the blade is worn out and no longer provides a reliable cutting, you should replace a new one. The blade is consumable and must be replaced as often as necessary to maintain the cutting quality. The quality of the blade deeply affects cutting quality. So be sure to use a high quality blade to ensure good cutting results.

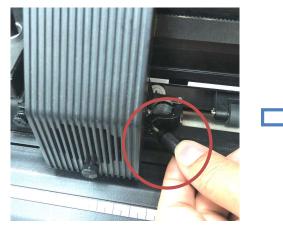


#### 2.6.3 Extension Holder Installation

Extension holder is used to move the blade holder to be positioned above the groove of the bottom to prevent the blade from dull easily when doing die-cutting. The extension holder needs to be installed to the carriage, then insert the blade holder into the extension holder. Plase follow the step by step instruction below.

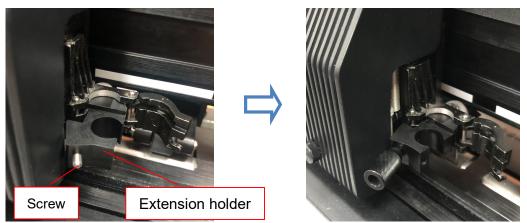


**Step 1** Remove the case from the carriage.





**Step 2** Insert the screw into the hole on the extension holder, and then fasten the case to the carriage. Please note the flange of the holder extension must put into the grooves of carriage.





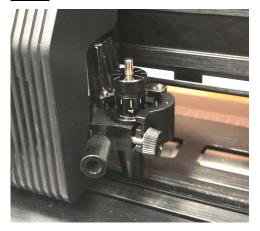
Step 3 Insert the blade holder into extension holder.



Step 4 Fasten the thumb screw to fix the tool carriage.



Step 5 The machine is ready to use.



Step 6 Use the reversing steps to remove the blade holder.



#### 2.7 Automatic Blade Length Detection

Figure 2.-26 is the new blade holder with a scale and the carriage with a mark. This blade holder detects blade length automatically and shows how the knob needs to be turned on the LCM.

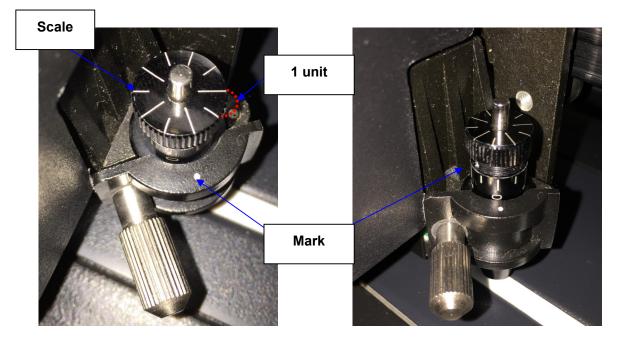


Figure 2-26

Figure 2-27

There are 10 units on the scale; each unit equals to 0.05 mm, allowing you to adjust the blade length for 0.00mm-5.00mm (Figure 2-27).

Follow the steps below to adjust the length of the blade:

- 1. Keep the blade tip within the blade holder before you start adjusting.
- 2. Align one of the scales on the blade holder to the mark on the carriage
- 3. Select "Blade Length Adjust" under "CUT TEST" on the LCM, enter the blade length wished in "Set Length"; test the blade holder first and then test the blade length by pressing ENTER.
- Note: Keep the blade holder at the same position when you perform blade holder and blade length tests.
- 4. When blade holder and blade length tests are finished, the screen will show you to what degree (the unit of the value following "CW" or "CCW" is "circle") and in which direction [CW (clockwise) or CCW (counterclockwise)] you should turn the adjustment knob. EG, Turn CW 5 is telling you that you should turn the knob for 5 units clock-wisely (Figure 2-28, Figure 2-29).



5. The screen will show "Adjustment completes" when the value on the screen is 0, the blade length is perfect and no more adjustment needs to be made. Press "Enter" now to complete the process and you may start cutting at this point.

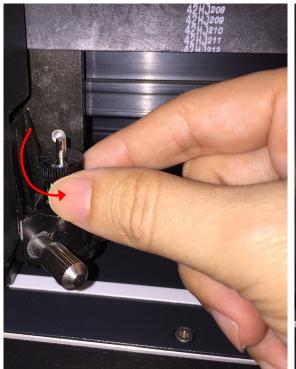




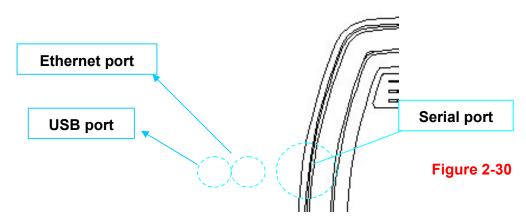
Figure 2-28

Figure 2-29

# 2.8 Cable Connection

The cutting plotter communicates with a computer through a **USB (Universal Serial Bus), Serial port (RS-232C) or** an **Ethernet port**. This chapter shows you how to connect the cutting plotter to a host computer and how to set up the computer/cutting plotter interconnection.

!! Notice: When USB connection is enabled, the serial port will be disabled automatically.

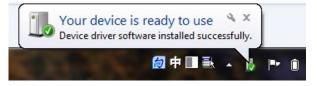


#### 2.8.1 USB Interface

RX II series build-in USB interface are based on the Universal Serial Bus Specifications Revision 2.0 (Full Speed).

#### 2.8.1.1 Connecting your GCC cutter

- 1. Turn on the machine.
- Connect the USB connector to the machine and then USB driver will installed automatically. It will take a few minutes to find the device. Please DO NOT disconnect the USB cable until the installation has completed.
- 3. You can double click the USB icon on the taskbar to make sure the USB device is detected.



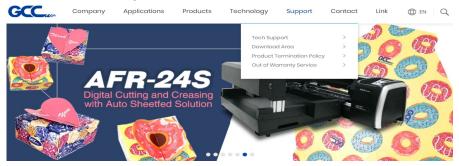
#### 2.8.1.2 Installing the driver

Use the USB One-click Installation for quick driver installation. Follow the simple steps below for driver setup.

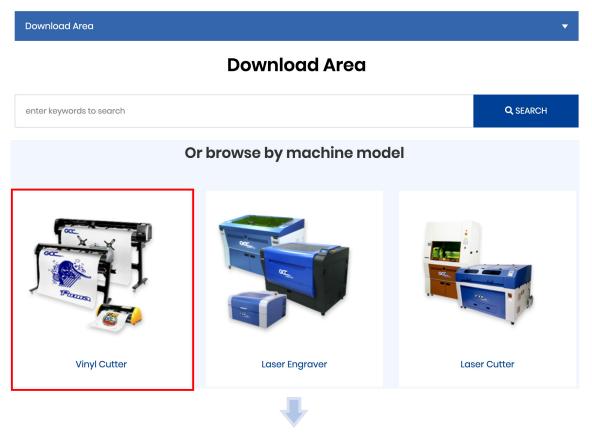
#### Caution!!

✓ If you are using Windows 7 and above as your operating system, make sure you log in using the "Administrator" account.

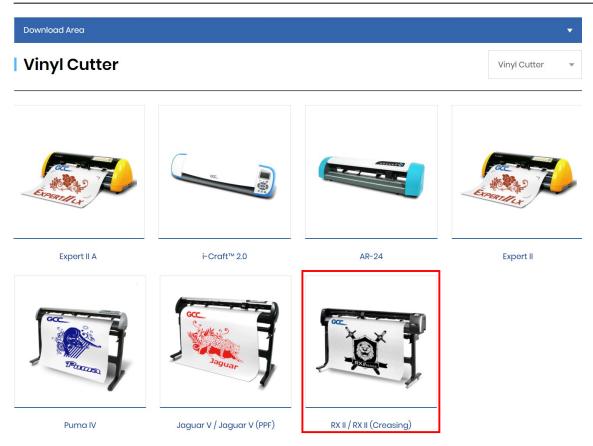
**Step 1** Visit GCC website and go to "SUPPORT" page to download the user manual, driver and software (https://www.gccworldnew.com/download.php). Please make sure that the USB device is connected before you start the driver installation.



**Step 2** You may use search function or directly click the product category to choose the model you want.





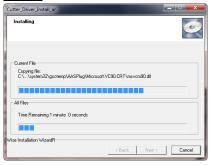


Download the driver according to the type of connection.

Product Brochure		•
Driver		-
Title	Size	Download
Cutter COM Driver_V2.21-03	11.2MB	Download
Cutter ETH Driver_V2.21-03	11.2MB	Download
Cutter USB Driver_V2.21-03	11.2MB	Download
User Manual		Ŷ



Step 3 Unzip the file and double clip the driver.exe to start installing the Driver and AAS plug-in.



**Step 4** If you were Windows 7 and above users, please click on the **red words** to instruct you how to disable Windows Update to allow success driver installation. And then click OK to next step.



Step 5 Please make sure the cutting plotter is powered on and connected to the USB device, and then click OK to next step.



Step 6 Confirm to close all running application programs before you start installing the driver, and then click OK.



Step 7 The installation will take a few minutes to complete and you will see a message below and



#### click on "OK" upon completion. Enjoy your GCC cutter!

C	GCC Driver Installation
	Add RX II-61-CR Printer driver Successfu

**Step 8** If you want to install AASII VBA on CorelDRAW and Adobe Illusatrator, exit CorelDRAW and Adobe Illusatrator program, and then click on "Install."

🚜 GCC AASII installer V2.12-03
Welcome to the installer for AAS II VB/ CorelDRAW version 11 12 13 14 15 16 17 Adobe Illustrator CS3 CS4 CS5 CS6
It is strongly recommended that you e CoreIDRAW and Illustrator program be continuing

Step 9 Check Install Message to confirm CoreIDRAW and AI version and then click OK.

Install Message
Corel Message Install CorelDRAW 17.0 GCCAASII_Draw.gms successful
AI Message AI Plug∔n not find
OK

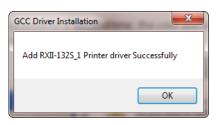
#### Note:

(1) If the driver is being installed for a second time, the user will be prompted as to whether a second copy of the driver installation is required.

GCC Driver	Installation
<b></b>	The RXII-132S driver installed Do you want to add an attachment?
	Yes No



(2) If the user selects yes, a second copy of the driver will be installed.



(3) For users who have upgraded Adobe Illustrator or CoreIDRAW, please go to the **AAS Installer** page in the **Printer Properties** window and click "**Install**" to access the latest version of GCC AAS Plug-in.

RXII-132S Prop	erties				×
General Sha Pen	ning Ports	Advanced Color Paper	Management	Security AAS Installer	Options
	GCC AAS In: Press the " installation	'Install" button	to begin th	ie	
			ок С	Cancel	Apply

#### 2.8.1.3 Driver Un-installation

You have to remove previous version driver installed on your PC system completely before you can install the latest version successfully. Please refer to below steps.

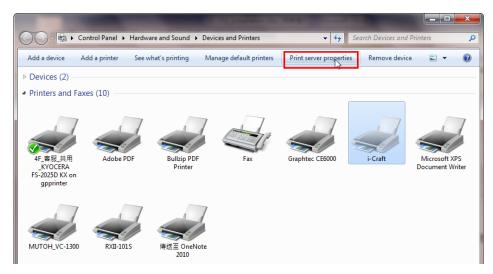
**Step 1** Go to Control Panel\Hardware and Sound\Devices and Printers window. Right click the printer and select "**Remove device**."



Cor	ntrol Panel 🕨 Hardwa	re and Sound 🕨 Devi	ces and Printers		• 4 Search Devices an	d Printers
Add a device Ad	dd a printer See wl	nat's printing 👻 🛛 🛚	/lanage default printers	Print serve	er properties »	⊑ - 0
<ul> <li>Devices (2)</li> <li>Printers and Faxe</li> <li>4F 警服 共用 KYOCERA FS-2025D KX on gpprinter</li> <li>傅莲至 OneNote 2010</li> </ul>	es (11) Adobe PDF	Bultzip PDF Printer	Fax	RXII-1	See what's printing Set as default printer Printing preferences Printer properties Delete print queue Create shortcut Troubleshoot Remove device	<ul> <li>Vicrosoft XPS</li> <li>vcument Writer</li> </ul>
Remove Device Are you sure RXII-1325	e you want to remo	ove this device?				

Step 2 After removing the unit, click on any printer on the page and select "**Print server properties**." (For Win 7 and above)

Or right click on blank space and then select "Print server properties." (For Windows XP)





# Step 3 Select "Driver" page

🖶 Print Server F	Properties		X					
Forms Ports	Drivers Security A	dvanced						
Forms on:	MARKET-EILEENC							
10x11 10x14 11 x 17 11x17			Delete Save Form					
Form name:	10x11							
measuremen	ew form form by editing the ts. Then click Save Fo ption (measurement	orm.						
Units:	<ul> <li>Metric</li> </ul>	English						
Paper size:	Printer	area margins:						
Width:	25.40cm Left:	0.00cm Top:	0.00cm					
Height:	27.94cm Right:	0.00cm Bottom:	0.00cm					
🚱 Chan	Change Form Settings							
		Close Cance	Apply					

Step 4 Select the model and click on "Remove".

🖶 Print Server Properties			x
Forms Ports Drivers Securi	ty Advanced		
MARKET-EILEENC			
Name	Processor	Туре	*
Adobe PDF Converter	x86	Type 3 - User Mode	
Bullzip PDF Printer	x64	Type 3 - User Mode	
Bullzip PDF Printer	x86	Type 3 - User Mode	
Graphtec CE6000	x86	Type 3 - User Mode	
HP Color LaserJet 2800 S	x86	Type 3 - User Mode	-
i-Craft	x86	Type 3 - User Mode	=
Microsoft enhanced Poi	x86	Type 3 - User Mode	
Microsoft XPS Documen		Type 3 - User Mode	
MUTOH_VC-1300	x86	Type 3 - User Mode	
RXII-101S	x86	Type 3 - User Mode	
RXII-132S	x86	Type 3 - User Mode	
RXII-132S_1	x86	Type 3 - User Mode	-
Add	Remove	Properties	
😯 Change Driver Settin	gs		
	0	K Cancel A	oply

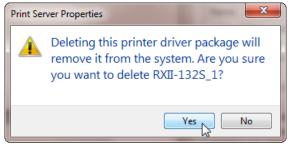


Step 5 Select "Remove driver and driver package" and click OK.



Step 6 Click Yes and then click "Delete" and "OK," and the driver installed on PC is completely

removed.



Remove Driver Package	Remove Driver Package
Driver package information collected.	Driver package deleted.
The following driver(s) will be deleted:	Driver RXII-1325_1 was removed.
RXII-132S_1 (x86)	
· · · · · · · · · · · · · · · · · · ·	
Delete	Delete



#### 2.8.2 RS-232 Interface

- Connecting to the RS-232 (Serial) Port
- 1. For IBM PC, PS/2 users or compatibles, connect the RS-232C cable to the serial connector of the assigned serial port (COM1 or COM2) of your host computer.
- 2. Set up the communication parameters (Baud Rate and Data Bits/Parity) to match the setting of software package, refer to chapter 3 "MISC" key description.

Caution!! Please turn off the plotter before plugging the RS-232C cable.

#### 2.8.3 Ethernet Connection

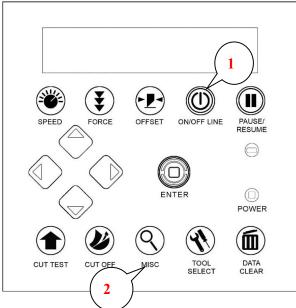
#### I. Networking Connectivity Setup

Step 1 Connect the LAN port and Ethernet port on GCC cutting plotter with RJ45 Ethernet cable, and turn on the machine.



Step 2 Press On/Off line and then MISC button on your control panel.





Step 3 Go to the DHCP page and select Enable through the up and down arrow keys, then press Enter.



Step 4 The IP Address will be shown on the screen automatically. Please make notes of it.



### II. Ethernet Connectivity Setup

There are two ways to output your plot through Ethernet. If you output your plot through GreatCut, please follow the instruction **I. Output through GreatCut**; if you output your plot through Adobe Illustrator or CorelDRAW, please follow the instruction **II. Output through the Ethernet Driver.** 

### I. Output through GreatCut

GreatCut is a plug-in for CorelDRAW and Illustrator. (GreatCut installation please refer to chapter **2.9.1**)

Instruction of Ethernet settings for GreatCut

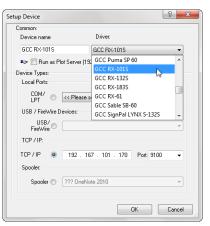


Step 1 Open GreatCut and create a new file and cutting line.



unter GreatCut 3 - [i-Craft磁鐵圖.job *]		
ere Edit Design View Tools Setti	ings <u>W</u> indow <u>H</u> elp	
🖹 🚺 🔚   🍾 📄 💼   4	Standard Settings	Miscellaneous Ctrl+J
X: 31.59 ↔ 350.31 mm 100.0	Color Palette	Qutput Devices
Yi 283.20 244.02 mm 100.0	Working Area	Output Parameters
-200 -100	Rulers Shift+I	Register / Jog Marks Filter 400
8-	Unit of Measurement	<u>R</u> IP
	<u>O</u> rigin →	Profile
	Und <u>o</u> / Redo Shift+F7	
8	<u>S</u> nap Mode P	
	Choose Language	
-		

Step 3 Select a model at Driver in Setup Device window



Step 4 Input the IP address you had acquired from the control panel to the TCP/IP. Click OK to complete settings.



Setup Device	Setup - Output Devices
Common:	Current Output Device
Device name Driver:	GCC RX-101S
GCC RX-101S GCC RX-101S ▼	Driver: GCC RX-61 File: C:\Program Files\GCC\GreatCut 3\cutter\GccRX.ECD Port: 192.167.101.170
Device Types:	Mode: Cut 👻
Local Ports:	Material: Foll 🗸
COM/ ○ << Please select >> ▼ Settings	
USB / FireWire Devices:	Default Settings
USB/	Keep reference point Weed border: 2.00 mm
FireWire	Wait after segment Overlap: 0.00 mm
TCP / IP:	Sort before output Copies spacing: 0.00 mm
	Plot to file Segment spacing: 0.00 mm
TCP / IP	Read out automatically Stack spacing: 0.00 mm
Spooler:	Output only tool-assigned layers
Spooler () ??? OneNote 2010	Enable output for objects larger than page size
OK Cancel	OK Cancel Apply

Step 5 Go to Output under File to check the settings.

pero-	Great	Cut 3 - [i-Craft	#E iob *1		Output to device GCC RX-101S		8 ×
x Y		<u>E</u> dit <u>D</u> esign <u>N</u> ew <u>O</u> pen <u>S</u> ave		Settings Window Help	Output Device (dCC RV-1915 Got RV-1915 Got Cut Output Prefix (ref Manage Rystex	Number of outputs 1 Number of outputs 0 Stack spacing 0.00 mm W Weed border. 2.00 mm Copies spacing 0.00 mm Segment spacing 0.00 mm	Output only tool-assigned layers Sort before output Gene reference point Cento file Cento file Cento file Cento file Cento file Save settings Save settings
+00 +00	N T T T	Send by E <u>m</u> ail Import Export Print Output	Ctrl+1 Ctrl+E Ctrl+P S		Parameter Pressure (g) Soered (cmR) Bacterial wicht) (emp) Autorial wicht) Autorial fond Autorial fond (femp) Step count	Value 80 1108 4703.86 3000.860 007 5 1	
200 . 300	6	Quit	Ctrl+Q		PeviewOutp	of Red material	Accuracy Mormal   Orgin: New orgin  Objects: All objects  Cascel  Cascel

Complete the driver installation process and your GCC Cutting Plotter is now allowed to network.

**Note:** If you want to add new local device, please go to **Output Devices** under Settings, and press the button on the right of Current Output Device and select **Add local device** (if the device has been installed but you wanted to output through another device, please select **Change** to set the IP address of another device).



	101S			-	Add local device
Driver:	GCC RX-61				Connect to Plot Manage
	C:\Program Files\GCC\Grea	tCut 3\cutter\GccRX.ECD			Change
	192.168.101.170				Delete
Mode:	Cut			<b>,</b> 1	
Material:	Foil			•	
efault Sett	ings				
Keep r	eference point	Weed border:	2.00	mm	
🔲 Wait a	fter segment	Overlap:	0.00	mm	
Sort be	efore output	Copies spacing:	0.00	mm	
Plot to	file	Segment spacing:	0.00	mm	
Read o	out automatically	Stack spacing:	0.00	mm	
	only tool-assigned layers	No tooltips			
Output					
Cutput					
	output for objects larger th				
	output for objects larger th	all page size			

### II. Output through Ethernet Driver

Step 1 Connect Ethernet cable to PC and install Cutter Ethernet driver. Then click OK to continue.

IP Address Acquisition

Control Panel

MISC → DHCP → Enable

Please acquire the IP Address of your PC followir

step by step instruction

You will be requested to enter this address on the
Configuration page in the following steps.

**Step 2** Enter the IP Address shown on the control panel and select the model. (Please refer part 1 instruction.)

This setup al	lows you to co	onfigure you	r TCP/IP port
IP Address:	192	168	. 1
Model:	RXII-132S		-



Step 3 The driver is installed. You can output from AI or CorelDRAW directly now.



#### 2.8.4 Data Transmitting

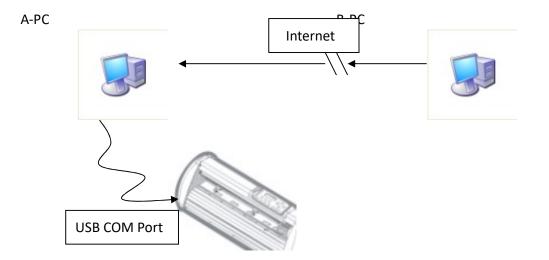
There are two options to transmit the data from the computer to the cutting plotter:

**Option 1:** With proper interface settings, the data can be transmitted from your application software package to the cutting plotters directly.

**Option 2:** Most cutting software packages are able to emulate **HP-GL** or **HP-GL/2** commands. As long as the file is **HP-GL** or **HP-GL/2** format, the cutting plotter can output the data precisely.

### 2.8.5 Printer Sever Shared Setting

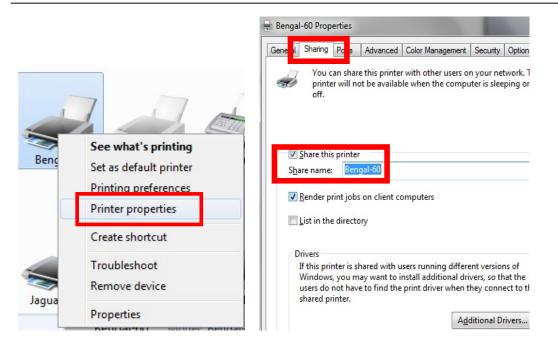
In "A-PC", set the printer driver as a shared printer, then use B-PC to connect A-PC's printer driver via internet.



# Step 1

Please set A-PC's printer driver to shared printer. (Right-click on printer icon, choose "Printer properties". Click "Sharing" tab then check "Share this printer")





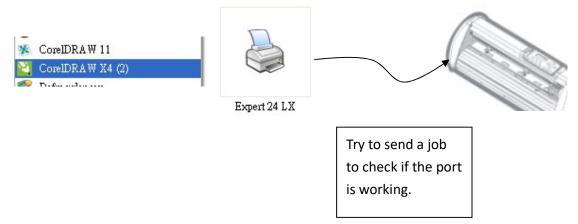
# Step 2

Click "Advanced" tab, then choose "Print directly to the printer" option.



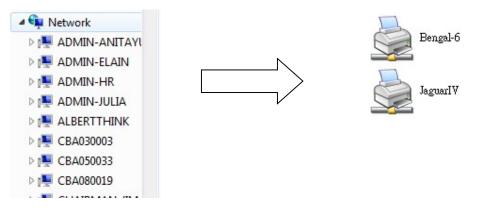
# Step 3

Send a job to the machine to check if A-PC is connected to the machine.



# Step 4

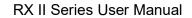
Activate A-PC's Printer Driver from B-PC's Network.



# Step 5

Right-click on the printer icon, and select "Connect" to connect A-PC's printer.







# 2.9 Software Installation

#### 2.9.1 GreatCut-S Installation

### 2.9.1.1 Auto Installation

1. Visit http://gccf.gcc.com.tw/gccclub/login.aspx and log in your GCC Club account.



or create a new GCC club account if you do not have one. Click "I Agree", fill in the required information and click "Submit" to sign up.

GC					Your Satisfaction	on Is Our First Priority	
Welcome to GC Please review th		erms and conditions, and	indicate your agreement belo	ow.			Already have an ID? Sign In
Terr	ns and Cor	nditions					<u>^</u>
Ther	re are sev	veral classes of me	mberships and each cl	lass are restricte	d to access certain i	nformation of the website	
	C class:	General user C class users a	re only allowed to ac	cess some content	s and files of the we	bsite.	
	B class:	Registered user B class users ar	e eligible to view mo	ost of the website	contents and allowed	to download certain file	·5
cont		GCC customers Once the GCC's co files that are prov		ed and provide a	serial number of a pr	oduct, they are allowed t	o access all the
whice Term noti	ch are set ms and Cor ice to you	out below. If you ditions, they are . Your access the	do not accept the Ter binding upon you. GCC Company's Web Site and	erms and Condition C ("the Company") nd its services wi	s, please do not use may revise the Terms ll be terminated upon	erein are subject to the this Web Site. Upon your and Conditions from time your notice to the Compa nd they will be binding u	acceptance of the immediately upon my that any change is
The	graphics, tected by	copyright and trad	emark laws and may no	ot be downloaded o		tellectual property of th d without the express wri l rights.	
	esponsibil Company m		Web Sites at all time	nes but reserves t	he right to do so. Th	e Company takes no respon	sibility whatsoever
				I Agree			
						III   GCCworld.com   Copy	yright © 2005 GCC. All rights reserved.
Sign up for GC	C Club						Already have an ID? Sign In
Create Your I		e do not use special	characters or spaces in	n your GCC ID or Pa	seword		
Your GCC ID		ССМКТ	(Must be 5-20 charact				
Password			(mast be o zo charact	(010)			
Re-enter pass	sword						
Personal Info	ormation						
Name		GCCMKT					
Email		keira.lee@gcc.com.tw	(F)	nter a valid email for im	mediate confirmation )		
Country		Taiwan	<ul> <li>(L)</li> </ul>	ner a valia cinali for ini	inculate commutation.y		
Cell Phone							
		+886					
Yes, I wish I understa	n to receive ond that I may	e-newsletters and offers y change my preference	from GCC. or unsubscribe from any p scribe contained in the em				
Please calcu	ulate it if you	are not a robot: 0 + 3 = 3					
Submit	Reset						



Country

#### You should receive an eMails with activation link and click the link to activate your account.

Thank you for registering with the GCC Club. Please find your registration information below.

Taiwan

*Please be sure to click http://gccf.gcc.com.tw/gc to activate your account.	lub/mail_confirm.aspx?enable=Y&ID=GCCMKT1&Name=GCCMKT⟨=	
Name	GCCMKT	
Email	keira.lee@gcc.com.tw	
Cell Phone	+886972066897	

Please note that most of the contents on the GCC Club are exclusive to GCC product owners. If you own a GCC machine and its serial number starts "H" to "L", we encourage you to register your product to receive an additional 3-month limited warranty extension. Other Benefits include: product applications, tips and parameters, technical support and trouble shooting tips, driver and software updates, user manual document.

### 2. Go to GCC Club, click "GreatCut-S voucher code" on the left side.



3. Enter your voucher code and click "submit".

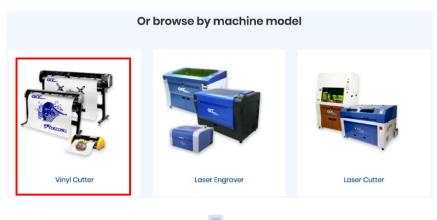
GCC	Welcome : GCCMKT	_	Your Satisfaction I	s Our First Priority Edit My Info	Change My Password	Log Out
🕙 Tech Support	GreatCut-S Serial Numbe					
🕲 Drivers						
🕘 User Manual						
🛃 Clipart Download	GreatCut-S Serial	lumber List				
Product Video						
Showcase	Obtain Your Great	Cut-S Serial Number				
Product Registration	Voucher Code	2KUK4LCZQGV71EBKVP8				
GreatCut Voucher     Code     GreatCut-S Voucher     Code     Gose p     Code	Please calculate it if	vou are not a robot: 2 + 1 = 3				
🚳 GCC Bonus Credit (North America)						



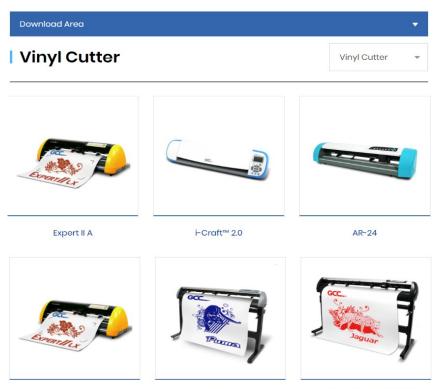
4. You will get your GreatCut-S serial number.

ome : GCC-MKT	
ma CCC M/CT	
ma - CCC M/CT	
ut-S Product Key	
GreatCut-S Key List	
ate	2022/10/11 上午 05:24:21
roduct Name	Cutting Plotter / Puma IV / P4-132LX
lachine S/N	W70233
oucher Code	AALD2MPORF7LVPDP4KQQ
ireatCut-S Product Key	AC19BBD4-BDA8-4B1F-8CCA-712086A0D9D6
Obtain Your Product Key	ý
oucher Code	
	ate roduct Name achine S/N sucher Code reatCut-S Product Key Obtain Your Product Key

5. Visit https://www.gccworld.com/download.php click the product category and choose aproper model.







Expert II

Puma IV

Jaguar V / Jaguar V (PPF)

6. Download GreatCut-S to start the installation.

Software		-
Title	Size	Download
Sure Cuts A Lot Pro 5 _Win64bit	52.1 MB	Download
Sure Cuts A Lot Pro 5 _Win32bit	34.0 MB	Download
Sure Cuts A Lot Pro 5_Mac	39.9 MB	Download
SignPal V19	818 MB	Download
GreatCut-S for Windows	303 MB	Download
GreatCut-S for Mac	303 MB	Download

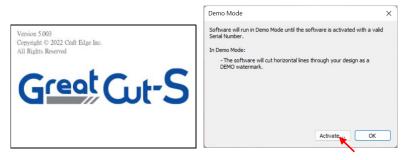
7. Press Next to continue, tick "Launch GreatCut-S" and then press "Finish" to compete the installation.





ense Agreement Please read the following important information before continuing.	Ready to Install Setup is now ready to begin installing GreatCut-S on your computer.	Completing the GreatCut-S Setup Wizard
Stear and the following License Agreement. You must eccept the terms of this central centre control of the installation.  CREATCUT 5 CONTRACE LICENSE AGREEMENT  LIC	Clicis Intarili to continue with the installation, or click Back if you want to review change any wettings. Additional tanks: Additional tanks: Create a destation cons: Pile endorse in the endorse Associate "Social" extension	Setup has finished initialing GreatCALS in your compute The application may be bandhed by selecting the redails and the setup of the setup of the setup of the setup of the Click Finish to exit Setup.
Accept the agreement     I do not accept the agreement	4	

8. Run GreatCut-S and press "Activate..."to activate GreatCut-S. Please make sure it is connected to the internet.



9. Enter your name in the Name column and GreatCut-S serial number to the Serial column and press "OK" to complete the activation.

Activate GreatCut-S X	
Please enter your Name and Serial. Name:	Activation X
Serial: Cancel OK If you are unable to activate, check the Activate manually option, and obtain your	Thank you for activating the software. If you need to move the software to a new computer, you can choose to Deactivate under the Help menu (Requires an Internet connection). Uninstalling the software from a computer does not automatically deactivate it.
Activation code at: http://www.crafted.ge.com/activation/greatrut	確定

10. GreatCut-S is ready to use.



### Note

✓ If you use a trial version to output graphics, meaning you do not enter the software key to activate the Sure Cuts A Lot mentioned above, there will be two extra lines cut through the design, therefore, make sure the Sure Cuts A Lot software is activated before implementing cutting jobs.



#### 2.9.1.2 Manual Activation

If the computer connected to the cutter doesn't have an internet connection to complete the software activation process, you can alternatively use the "Activate manually" function to enter the "Activation Code" and begin using GreatCut-S. However, you will need to find another computer with internet access in advance to obtain the "Activation Code" by following the instructions below.

 Check the "Activate manually" checkbox and you should see the Site Code and Activation Code fields appear. The Site Code field will be pre-filled in and cannot be changed.

lame:	Jim		
erial:	560227-482346-4	68767-153586-123456	
ite Code:	623516-343330-0	65511-410429	
activation Code:			
🗸 Activate manual	lly	Cancel	OK

2. Visit https://craftedge.com/activation/greatcut/ via an internet connected computer. Enter your name, serial and site code.

Activate "GreatCut-S"	ig if you are having trouble activating from within "GreatCut-S" or do not have an Internet connection on the
computer you are trying to activate on.	g in you are having touble detracing from maning or decide of or to hot have an interface connection on the
	sion of the software. Generally, you will just need to choose Activate from the Help menu in GreatCut-S and enter will try to activate automatically and you can disregard this web page. <b>Do not</b> use this web page if you have not sed.
If you view the About box in GreatCut-S and	it shows your name and serial number, the software is activated ok.
	y, you must use this web page and generate a Manual Activation Code. The Name and Activation Code information e-mail. The Site Code is obtained by running the program and choosing "Activate" and checking the "Activate
	Lime Jim 560227-482346-468767-163586-123456 (Ex: 123456-123456-123456-123456) What is this? 618: Code 626304-661486-172829-163129 (Ex: 123456-123456-123456-123456) What is this? (Ex: 123456-123456-123456-123456) What is this?

After entering in your Name, Activation Code, and the Site Code, click the Generate Activation Code button to create your Manual Activation Code. Copy and paste the value back into the " Activation" dialog box in the application to activate your copy.

3. Click on the "Generate Activation Code" button, and your activation code will be shown in the Activation Code field.





Important: You only need to do the following if you are having trouble activating from within "GreatCut-S" or do not have an Internet connection on the computer you are trying to activate on.

You must activate in order to use the full version of the software. Generally, you will just need to choose Activate.. from the Help menu in GreatCut-S and enter your name and serial number. The software will try to activate automatically and you can disregard this web page. **Do not** use this web page if you have not installed the software yet or have not purchased.

If you view the About box in GreatCut-S and it shows your name and serial number, the software is activated ok.

If you have problems activating automatically, you must use this web page and generate a Manual Activation Code. The Name and Activation Code information is obtained from your purchase confirmation e-mail. The Site Code is obtained by running the program and choosing "Activate..." and checking the "Activate Manually" option.

	Serial 560227-482346-468767-153586-123456
(Ex: 1	23456-123456-123456-123456) What is this?
	Site Code 626304-661486-172829-153129
(E	x: 123456-123456-123456-123456) What is this?
	Activation Code 28236337343012345

After entering in your Name, Activation Code, and the Site Code, click the Generate Activation Code button to create your Manual Activation Code. Copy and paste the value back into the " Activation" dialog box in the application to activate your copy.

4. Copy and paste the activation code back into the activation dialog box of Sure Cuts A Lot program and hit ok.

Name:	Jim		
Serial:	560227-482346-46876	57-153586-123456	
Site Code:	626304-661486-17282	29-153129	
Activation Code:	28236337343012345		
🗹 Activate manual	ly	Cancel	OK

5. Click OK and GreatCut-S is ready to use.





#### 2.9.1.3 Re-install GreatCut-S Software

If you change a new computer, you may need to deactivate your GreatCut-S software and re-install it on your new device.

Go to "Deactivate..." under Help and press Yes to confirm, then follow the installation procedure and use the same code to activate it on another computer.

New	🗭 💾 D., D. D. L. Lo Cal Role Inper Taxe Litery	About GreatCut-S Help	F1
		Support	>
landles:	Basic V	Language	>
Unti	tied-1 🛞 😌 New Project	Deactivate	
Deacti	ivate ×		

#### 2.9.1.4 Reset GreatCut-S Serial Code

If you need to re-install the software again due to problems such as a computer crash/reformat where you were not able to de-activate your copy off the computer first, you may visit https://craftedge.com/activation/deactivateGC.php to reset your serial number

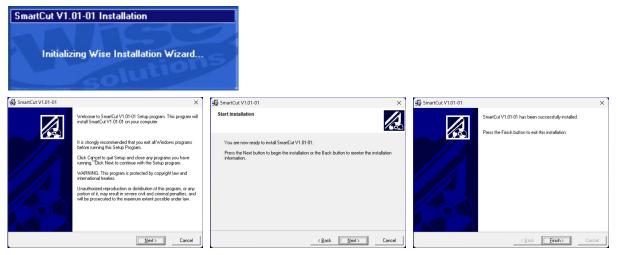
Great Cut-S	
Deactivate "GreatCut-S"	
This page can be used to reset your serial number if were not able to de-activate your copy off the compo	f you need to re-install the software again due to problems such as a computer crash/reformat where you uter first.
	wish to deactivate to install on a different computer, you can choose Deactivate under the Help menu in tivation option in GreatCut-S requires an internet connection.
Important: You will only be able to use this page of will need to contact GCC Support for help.	n a limited basis to reset your serial number. If you need your serial reset again after using this page, you
IP Address Logged: 180.218.237.36	
Name:	
Email:	
Serial:	
Please describe the reason you are needing to reset	your serial number
Submit	



#### 2.9.2 SmartCUT Installation

SmartCUT is a software used for barcode cutting functionality, available for download on the GCC website's dowolaod area.

- 1. Download GreatCut-S to start the installation.
- 2. Press Next to continue, and then press "Finish" to compete the installation.



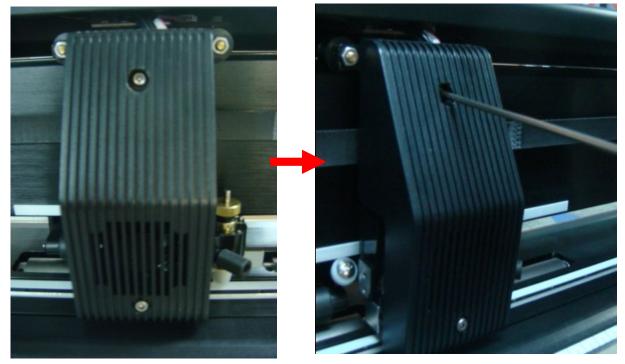
3. Run SmartCUT and it is ready to use.

SmartCut					-	×
Settings Help						
📓 終 📖 📭						
D:\photo				Received Barcodes :		
Name	There are	Date Modified		Error messages : Get model name fail!		
Idle 0 files			USB			

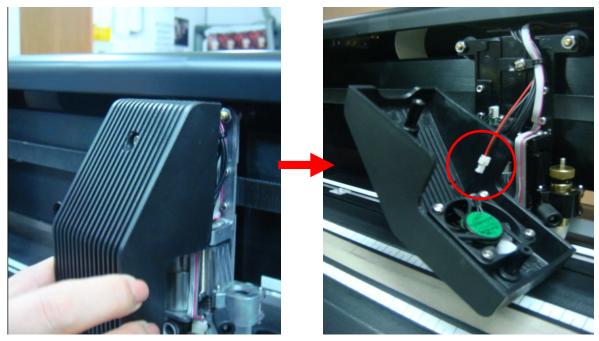


# 2.10 Auto Cut-off system Installation

Step 1 Unscrew the Cover from the Tool Carriage using a screw driver.



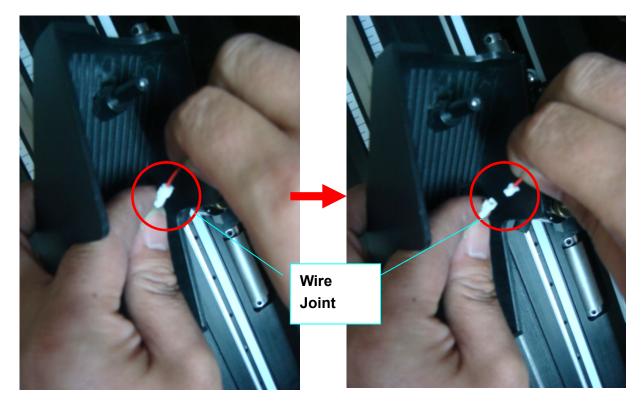
Step 2 Manually disassemble the Cover, which will still be connected to the Tool Carriage through wires.



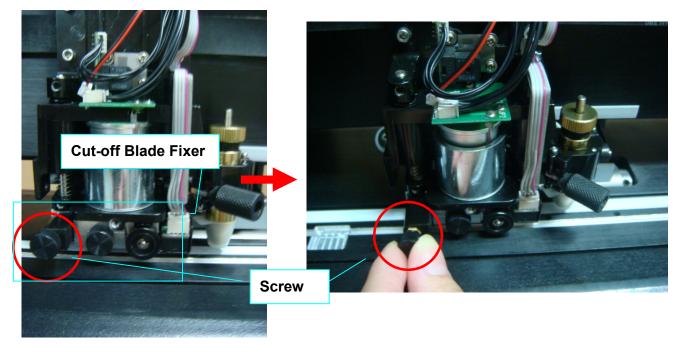


**Step 3** Disconnect the black and red wires between the Cover and the Tool Carriage from the white Wire Joint and the Cover will be removed completely.

**Note:** Please disconnect the wires at the white Wire Joint with care as the fans will not be working if these wires are split elsewhere.

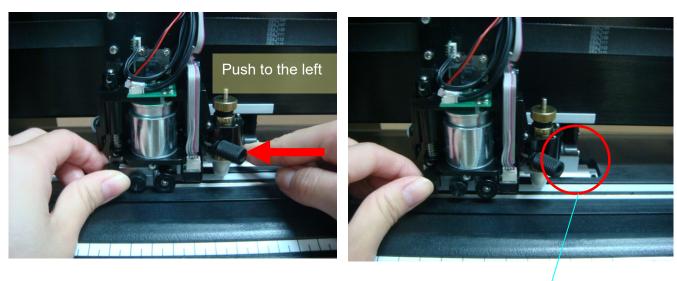


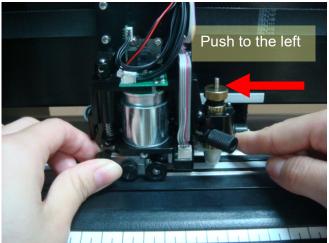
Step 4 Remove the screw on the left of the Cut-off Unit manually (Figure 2-37 and 2-38).





**Step 5** Remove the entire Cut-off Unit by holding it while pushing the tiny metal board on the right to the left.





Metal board

The Cut-off Unit will drop automatically once the board is pushed to the left (above picture).

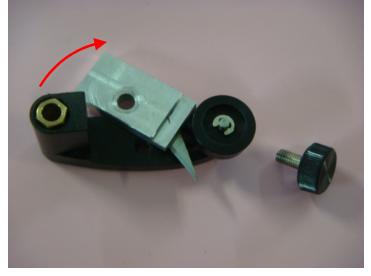


Step 6 Remove the screw from the Cut-off Unit.



Screw

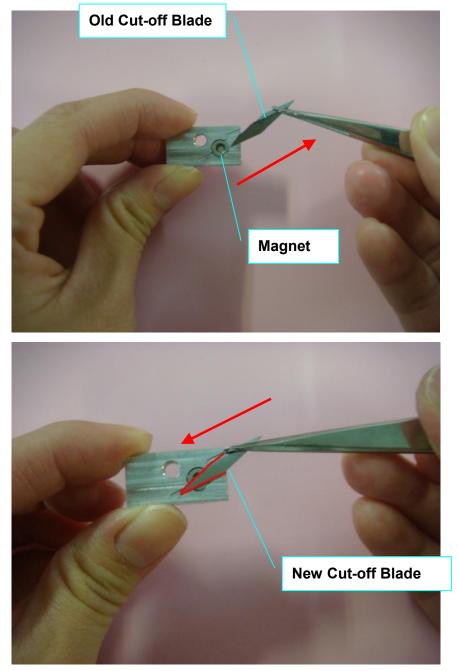
Disassemble the Cut-off Blade Fixer by pulling it up vertically





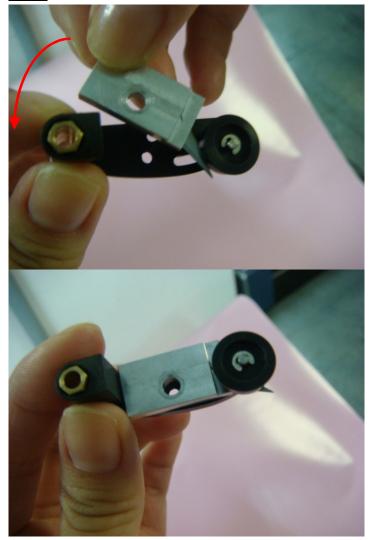
**Step 7** Unscrew the Cut-off Blade from the Cut-off Blade Fixer, which will be attracted by the magnet on it, and replace it with a new Cut-off Blade along the track highlighted in red using tweezers.

Note: The Cut-off Blade is sharp so please handle with care.

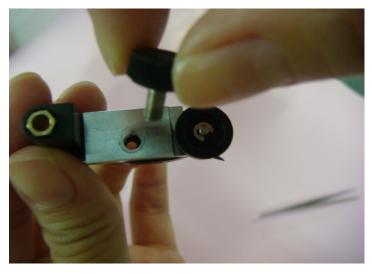




Step 8 Assemble the Cut-off Blade Fixer back to the Cut-off Unit by pushing the Holder downwards.



Then attach the screw

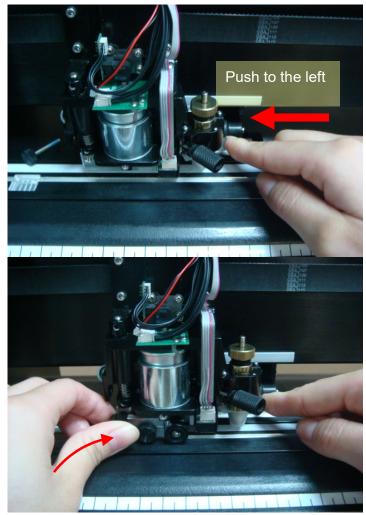


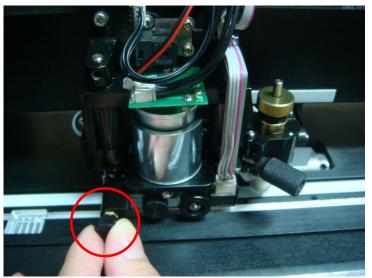
Step 9 Assemble the Cut-off Unit back

to the Tool Carriage by pushing the metal board on the right while pushing the Cut-off Unit



## upwards.



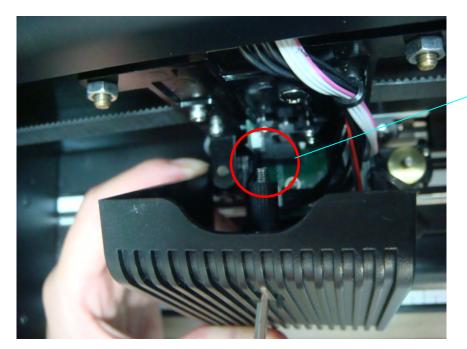


Step 10 Reconnect the wires at the white Wire Joint.

Then attach the screw



**Step 11** Assemble the Tool Carriage Cover back to the Tool Carriage; please locate the end of the screw to the hole on the carriage before tightening the screw.

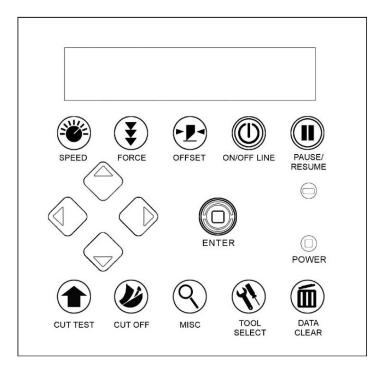


End of Screw

# **Chapter 3 The Control Panel**

This chapter describes the button operations with the LCM menu flowcharts of RX II series. When the cutting plotter is ready for use as described in Chapter 1 & 2, all functions are under default parameters.

### 3.1 The Touch Key Panel



< Touch Key Panel on RX II series >

Кеу	Function		
LCD Screen	To display functions and error messages.		
Power LED	To indicate the power status ( light up: power on; light off: power off )		
4 Arrow Keys	To move position, select function, or change setting.		
ENTER	To set item or register the immediately preceding input value.		
PAUSE/RESUME	To temporarily halt cutting process or to continue		
ON/OFF LINE	To switch modes, stop cutting job, or abort changes of settings.		
OFFSET	To adjust the value of blade's offset.		
FORCE	To adjust the value of cutting force.		

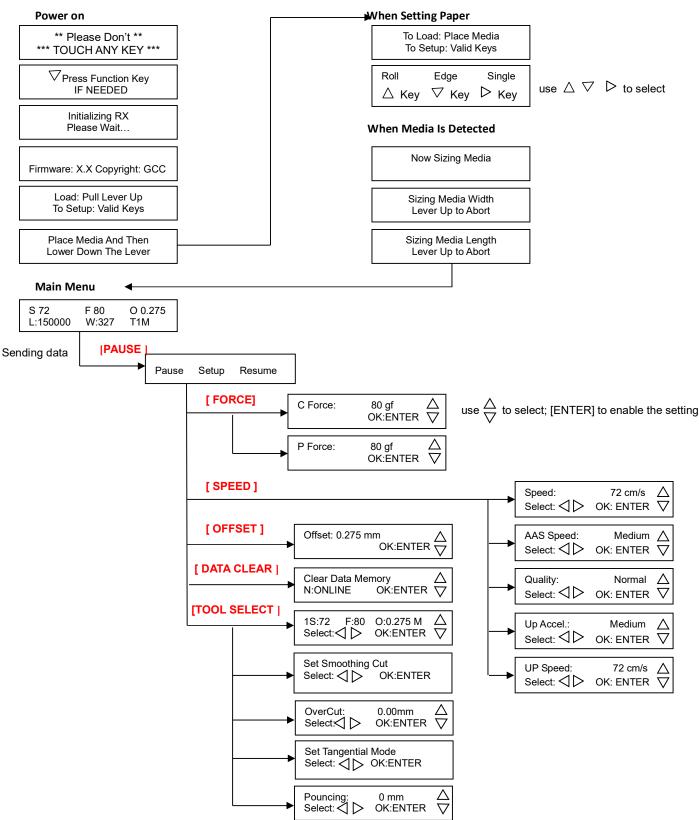


SPEED	To adjust the value of cutting speed and quality.
CUT TEST	To perform cutting test on different media.
CUT OFF	To cut off the material when the job is completed.
MISC	To set up functions.
TOOL SELECT	To select tools.
DATA CLEAR	To clear up internal memory.

Please see details in "3.4 Menu Items"

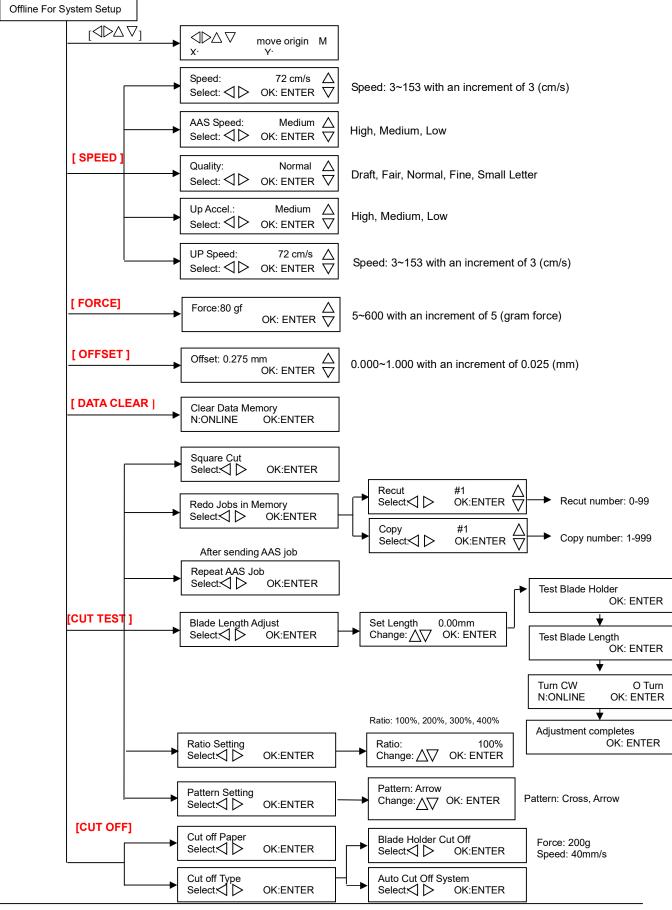


#### 3.2 Menu in On-line Mode

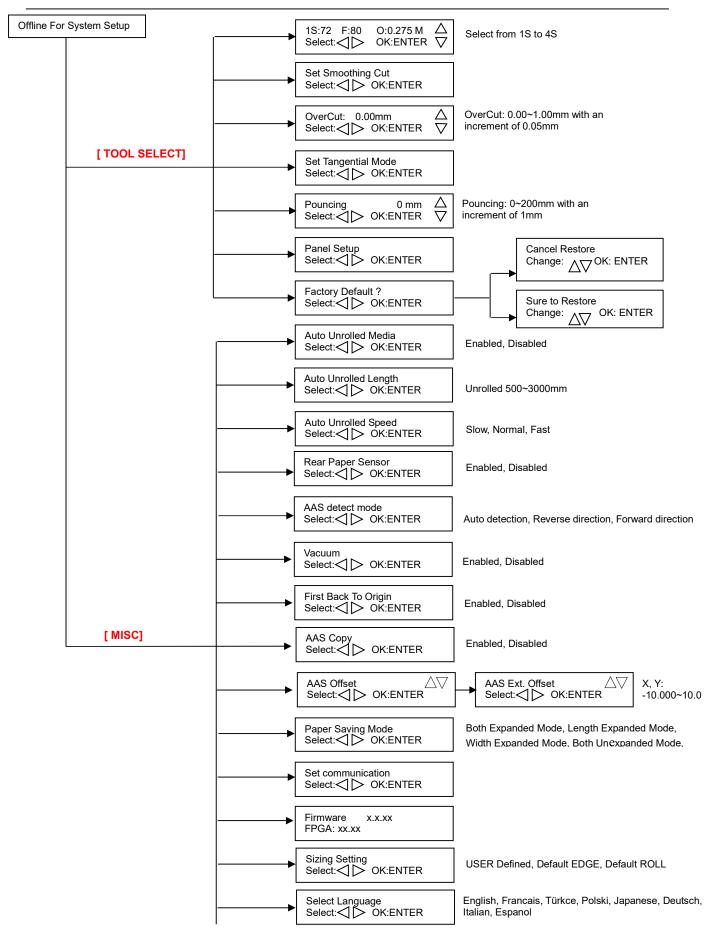




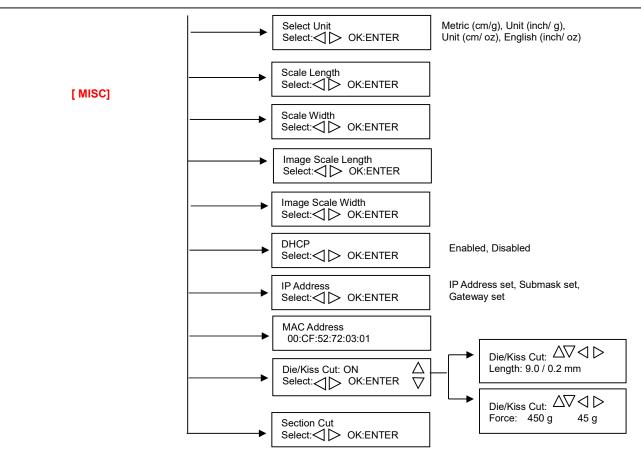
#### 3.3 Menu in Off-line Mode













#### 3.4 Menu Items

Below describes the functions of menu items

Menu or Key	Function	Setting	Default
	Media sizing		
Roll	To measure media width.	Maximum Media	
		Length 150M	
Edge	To measure media width and pull the media back till the front	Maximum Media	
	paper sensor open.	Length 150M	
Single	To measure media width and length.	Maximum Media	
		Length 10M	
	POWER		
	To indicate the power status.		
	[ Arrow Keys ]		
	1. To move the tool carriage position on X or Y axis.		
	2. To select functions or change values of settings.		
	[ ENTER ]	•	•
	1. The displayed parameters will be saved automatically.		
	2. To set a new origin at the present tool carriage position.		
	In "offline" mode, moving the tool carriage to desired position		
	by [Arrow Keys], then press [ENTER] key to set a new origin.		
	While moving with the parameters of XY-axes displayed, press		
	[MISC] key will enable fine-tune movement; press [MISC] key again to disable the function.		
	[ PAUSE/RESUME ]	1	
	To temporarily halt the cutting process.		
	To resume the process by press [Pause/Resume] key again.		
	[ ONLINE/OFFLINE ]	1	
	1. To switch between online mode and offline mode.		
	2. To stop the cutting job or abort the change of setting.		
	Once press this key, the cutting job will be terminated		
	immediately and cannot be resumed.		
	[ OFFSET ]		1
	To set or modify the distance between the blade tip and the	0.000~1.000mm	0.275mm
	center axis. Through left or right arrow keys, users can select the		
	blade used (Red, Green, Yellow, Blue, Black capped blade or Pen)		
	then adjust the offset values after pressing Enter if necessary		
	[ FORCE ] To set or modify the value of tool force.	5~600gram;	80 gram
	When the cutting force exceeds 450g, the maximum cutting speed	-	
	would be 15 cm/sec and the cutting quality would be Small Letter	S Brann ber steh	
	Mode and while the cutting force is 300g-449g, the maximum		
	cutting speed would be 30 cm/sec and the cutting quality would		
	be Fine Mode.		
	[ SPEED ]		
Speed	To set or modify tool speed at horizontal moving.	3~153cm/sec;	72cm/sec
	When the cutting speed exceeds 72 cm/sec, the cutting quality	3cm/sec per step	
145 Space	would be Normal Mode.		Modium
AAS Speed	To set or modify AAS detecting speed.	High, Medium, Low	Medium
Quality	To set or modify cutting quality (acceleration).	Draft, Fair,	Normal
	Draft (4.2G), Fair (2.8G), Normal (1.4G), Fine (0.7G),	Normal, Fine,	
	Small Letter (0.2G).	Small Letter	
	While cutting small letter, set as "Small letter".		1



	Mileile subting in high angend ant an "Dueft"	1	1
	While cutting in high speed, set as "Draft". For normal operation, set as "Normal".		
Up Accel.	To set or modify tool acceleration at vertical moving.	High, Medium, Low	Medium
Up Speed	To set or modify tool speed at vertical moving.	3~153cm/sec; 3cm/sec per step	72cm/sec
	[ CUT TEST ]		
Square Cut	To perform a cutting test at present blade position. For more information, please refer to "4.3 Adjusting the Cutting Force and Offset" to adjust blade force and cutting speed.		
Redo Jobs in Memory	To redo the cut test jobs saved in memory by recutting or producing cut test copies	Recut (number of jobs: 1-99)	Recut
		Copy (number of jobs: 1-999)	
Repeat AAS Job	To repeat AAS jobs automatically without having to operate on the computer side. Please be noted that this feature is mainly applied to the Single paper mode; please ensure a new piece of material you wish to apply this feature on is loaded and the origin repositioned to the first registration mark before starting. When the first AAS job repeat completes, the user will be offered the choice of "Repeat AAS Job Again", please press "Online/Offline" to return to the main menu.		
Blade Length Adjust	<ol> <li>To adjust the length of the blade</li> <li>Note:         <ol> <li>Keep your blade length as 0 before you start adjusting.</li> <li>Test the blade holder first and then test the blade length by pressing ENTER.</li> <li>Keep the blade holder at the same position when you perform blade holder and blade length tests.</li> <li>When blade holder and blade length tests are finished, the screen will show you to what degree (the unit of the value following "CW" or "CCW" is "circle") and in which direction [CW (clockwise) or CCW (counterclockwise)] you should turn the adjustment knob.</li> <li>EG, Turn CW 0.5 is telling you that you should turn the knob for half a circle clockwisely.</li> </ol> </li> <li>The value on the screen will be 0.0 when the blade length is perfect and no more adjustment needs to be made. You will be prompted with the message below: Adjustment completes and you may start cutting at this point.</li> </ol>	0.00mm-5.00mm	0.00mm
Ratio Setting	To adjust the size of the pattern.	100%, 200%, 300%, 400%	100%
Pattern Setting	To provide two patterns for cut test Note: It is recommended to select "Cross" if you are working on thick pieces of materials.	"Arrow" and "Cross" patterns	"Arrow"
	[ DATA CLEAR ]		
	To clear up buffer memory.		
	[ TOOL SELECT ]		
Save Parameter	To save pattern(s) of cutting parameters for later use. There are 4 sets of parameters saved in the panel. Use Page Up and Page Down keys to select the set of parameters you wish to adjust, press "Enter" to confirm (the number shown on the upper	Pattern 1: vinyl Pattern 2:	Patterns 3 & 4
	left corner will change accordingly). Each set of parameters includes Speed, Force, Offset, Up Speed, Quality and Scaling though the latter three will not be displayed in this section. To	Patterns 3 & 4:	



	adjust or check individual parameters, go back to the responding keys on the panel and press "Enter" to confirm.	default value which could be adjusted if needed	
Set Smoothing Cut	To enable smooth-cutting function.		Enable
Over Cut	To generate an overcut to facilitate weeding.	0.00mm-1.00mm 0.05mm/per step	0.00mm
Set Tangential Mode	To enable the tangential-cutting mode for thicker media types and small letter cuts. Note: while the Offset value setting at 0.000 mm, "Set Tangential Mode" will automatically be disabled.		Enable
Pouncing	<ul> <li>To make perforated patterns.</li> <li>* In order to use this function, Pouncing tool must be installed.</li> <li>* Before start pouncing, place pouncing strip on top of the cutting pad to protect the cutting pad.</li> <li>* Set the value as 0 mm to disable the pouncing mode.</li> <li>* Pouncing tool is an optional item.</li> </ul>	0~200mm	0mm
Panel Setup	Accept setup command: To accept commands of the Force, Speed, Cutting Quality, and Offset only via software.		Accept setup command
	Control panel only: To accept commands of the Force, Speed, Cutting Quality, and Offset only via control panel of the cutter.		
Factory Default?	To turn all parameters of the menu items to factory-default settings.		
	[ MISC ]	1	I
Auto Unrolled Media	<ul> <li>To avoid paper jam and motor crash by automatically unroll media (50cm and up) before cutting while enabled.</li> <li>* Auto-unroll only effects on roll/edge media.</li> <li>* Using Single mode to size media will disable this function automatically.</li> <li>* If the length of the rolled media is less than 2 meters or the weight is light, it is recommended to set this mode disabled.</li> </ul>		Enabled
Auto Unrolled Length	When "auto unrolled media" is enabled, user can adjust the unrolled media length.	500~3000mm	3000mm
Auto Unrolled Speed	To adjust the unrolled media speed.	Slow, Normal, Fast	Normal
Rear Paper Sensor	To detect if the rear paper sensor is covered to determine the following process; when it is enabled, the cutter will detect if the material has covered the rear paper sensor under the Roll and Edge mode; when disabled, the rear paper sensor will not be functioning. Note: Rear paper sensor only functions under "Roll" and "Edge" mode.	Enable Disable	Enable
AAS detect mode	<ol> <li>To recognize the printed sheet media is fed in forward direction or reversed direction by detecting the registration marks.</li> <li>Forward direction: to detect the registration marks in forward media feeding direction</li> <li>Auto detection: to distinguish the media feeding direction automatically by by detecting the registration marks.</li> <li>Reverse direction: to detect the registration marks in reversed media feeding direction</li> </ol>		



Vacuum	To help improve tracking and cutting accuracy by turning on the fans. If you turn off the vacuum system, the fans will remain inactive during cutting or plotting.	Enable, Disable	Enable
First Back to Origin	To enable the carriage back to the previous origin; when "Enable" is selected, the carriage will not go back to the previous origin while the selection of "Disable" allows the carriage to do so.	Enable Disable	Enable
AAS Copy	To enable the AAS copy. When "Enable" is selected, the AAS module will continue to read the registration mark to contour cut. Users can set distance between images and AAS copy times in this function. The range of distance is 0-500mm, and the range of times is 0-1000.	Enable Disable	Enable
AAS Offset/ AAS Ext. Offset	To set or modify AAS offset value. You can refer to "5.3 Printer Test" for more details. Adjust the offset value under AAS Offset menu when a regular blade holder is installed; adjust the offset value under AAS Ext. Offset menu when an extension holder is installed.		AAS Offset: X:0, Y:0 AAS Ext. Offset: X:8.5, Y:3
Paper Saving Mode	To save media by four different modes:1. Length expanded mode2. Width expanded mode3. Both expanded mode4. Both unexpanded mode		Length expanded mode
Set Communication	To build up the communication between host computer and cutter. Baud Rate is to determine the speed of data transmission. Data Bits refers to the size of one block of data. Parity is used to check if data was revived correctly or not. 9600, n, 7, 1, p 9600pbs, 7 Bits with NO Parity 9600, o, 7, 1, p 9600pbs, 7 Bits with ODD Parity 9600, e, 7, 1, p 9600pbs, 7 Bits with EVEN Parity 9600, n, 8, 1, p 9600pbs, 8 Bits with NO Parity 9600, o, 8, 1, p 9600pbs, 8 Bits with NO Parity 9600, e, 8, 1, p 9600pbs, 8 Bits with ODD Parity 9600, e, 8, 1, p 9600pbs, 7 Bits with NO Parity 19200, n, 7, 1, p 19200pbs, 7 Bits with NO Parity 19200, o, 7, 1, p 19200pbs, 7 Bits with NO Parity 19200, e, 7, 1, p 19200pbs, 7 Bits with NO Parity 19200, n, 8, 1, p 19200pbs, 7 Bits with NO Parity 19200, n, 8, 1, p 19200pbs, 8 Bits with NO Parity 19200, o, 8, 1, p 19200pbs, 8 Bits with NO Parity 19200, o, 8, 1, p 19200pbs, 8 Bits with NO Parity 19200, o, 8, 1, p 19200pbs, 8 Bits with NO Parity 19200, o, 8, 1, p 19200pbs, 8 Bits with NO Parity 19200, o, 8, 1, p 19200pbs, 8 Bits with NO Parity		
Firmware Version	To display the version number of Firmware and FPGA code, varying from model to model		
Sizing Setting	Allows user to set the sizing settings. If set to user defined mode, the user will be asked to select the size setting every time the machine is turned on. If set to Default Edge or Roll, Edge or Roll type sizing will be performed whenever the machine is turned on.	User Defined, Default EDGE, Default ROLL	User Defined
Select Language	To select displayed languages on LCM panel in English, Spanish, Italian, Deutsch, Japanese, Portuguese, Polish, Turkish or French.		English
Select Units	Provide four-unit systems for users convenient.	cm/s; inch/oz; cm/oz; inch/gram	Metric
Scale Length Scale Width	Fixed scaling, for maintenance only.	, , , , , , , , , , , , , , , , , , , ,	
Image Scaling Length	To adjust the image scale of media length and width that may cause by the thickness of the media.		
	The Numerator is the ideal length, and the Denominator is the actual length measured from the resultant.		



Image Scaling Width	<ul> <li>For example, cutting a line with 500.0 mm length. The procedure as follows:</li> <li>Press the [LEFT ARROW] to choose the Numerator and select 500.0 mm,</li> <li>Cut the length by sending a graph file,</li> <li>Measure the length then use the [RIGHT ARROW] key to choose the Denominator, then</li> <li>Press [UP ARROW /DOWN ARROW] to change the values of the actual length.</li> </ul>		
DHCP	Shows your IP address for TCP/IP Configuration		Disable
IP Address	Shows the IP Address of your cutting plotter.		
MAC Address	Shows the MAC Address of your cutting plotter.		
Die/Kiss Cut	To perform die cut/kiss cut in one cutting line simultaneously by designating the outline to green color RGB 255 and defining the length and force setting on control panel (Please refer to Chapter 4.9 for details).	Length: 0.2 ~9mm Force: 45 g~ 450 g	
Section Cut	To divides the long plot data into sectional output jobs to gain higher cutting quality and increase precision. Users can set the section by registration marks or input the value manually.		
	[ CUT OFF ]		
Cut off Paper	To cut off the material automatically when the job is completed, you need to use the arrow keys to move the carriage to the position you want to cut off the material and then press the "cut off" button and the auto cut off system will cut-off the material.		
Cut off Type	To perform auto cut-off by auto cut off system or Blade holder cut off. Users can define the cut off force/speed when Blade holder cut off is selected. Note: Blade holder cut off function is using a blade to cut-off the material. An extension holder and a blade holder with blade are required to perform the Blade holder cut off function.		Auto cut off system



# **Chapter 4 Operation**

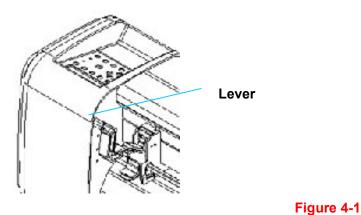
#### 4.1 Media Loading

#### 4.1.1 Loading the Sheet Media

To load the media properly, please follow the procedures listed below:

## Step 1

Use the lever on the upper right side of the cutting plotter to raise or lower down pinch rollers. Pull the lever forward until it makes a clicking sound then the pinch rollers are raised (Figure 4-1).

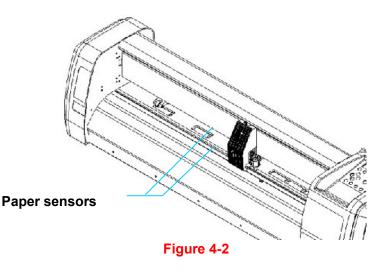


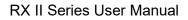
## Step 2

Load your media on the platen and slide it under the pinch rollers from either the front side or the backside. The **alignment rulers** on the platen extension will help you to adjust the media precisely.

#### Note:

Be sure that the media must cover the paper sensors on the platen when loading the media. At least one of the two paper sensors (Figure 4-2) should be covered. Once the media covers the sensor, the cutting plotter will size the media width and length automatically.







## Step 3

Then move the pinch rollers manually to the proper position. Be sure the pinch rollers must be positioned above the grid drum. The white marks on the top trail will remind you where the grid drums are (Figure 4-3).

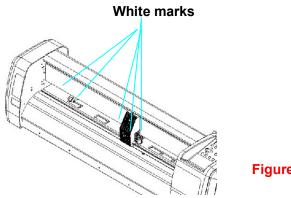


Figure 4-3

## Step 4

Push the lever backward to lower down the pinch rollers.

## Step 5

Turn on the power, the tool carriage will measure the size of the media automatically. And the plotting cutter begins to work.

#### Note:

Always adjust the position with the pinch roller raised.

Move the pinch roller by applying force at the rear portion of the pinch roller support.

Do not move it by holding its front rubber roller (Figure 4-4).

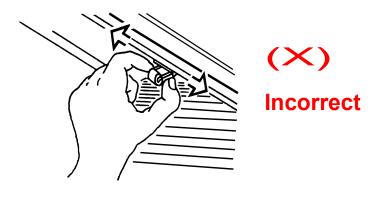
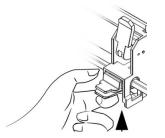


Figure 4-4



#### Note:

Please pull up the bottom of all pinch rollers (Figure 4-5) before the lever is pushed backwards to ensure accurate media width detection.



Pull up bottom to release grip



#### 4.1.2 Loading the Roll Media

## Step 1

Put the roll media guide bushes on two roll holders (Figure 4-6).

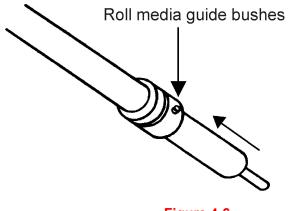
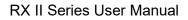


Figure 4-6



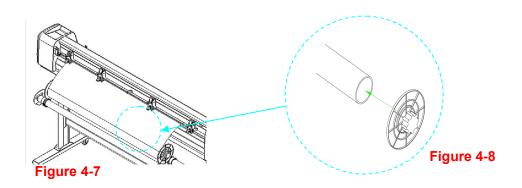


## Step 2

-- Option A (Use the media flanges) (Recommended)

Insert a roll media flange at the end of each roll media and tighten the thumbscrew until the roll media is firmly gripped (see Figure 4-7).

Then put the roll media on the roll holders. Adjust the position of the roll media ensure that media flanges are able to run in the grooves of roll holder guide bushes (Figure 4-8)



#### -- Option B

Insert the two roll holders into the roll media support set then place the roll media directly between the two roll holders (Figure 4-9).

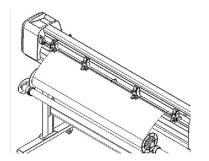
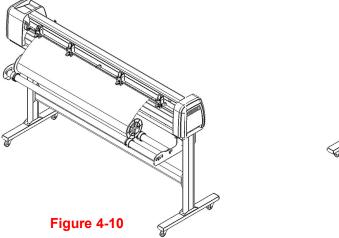


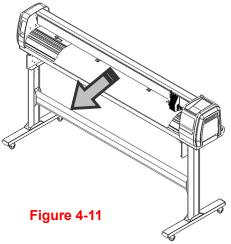
Figure 4-9



## Step 3

Load the media on the platen. Please refer to "4.1.1 Loading the sheet media". After loading the roll media, flatten the media on the platen and hold the front edge of the roll media firmly (Figure 4-10).





## Step 4

Turn the roll downward to make an equal tension across the media (Figure 4-11)

## Step 5

Move the pinch rollers to the appraise location and note that the pinch rollers must be positioned above the grid drums.

## Step 6

Push the lever backward to lower down the pinch rollers.

## Step 7

Fix roll holder guide bushes on the roll holder to secure the roll media.

## Step 8

Turn on the power switch and select Roll, Edge or Single mode appropriate for one time setup, or set to Default Roll in Sizing Setting and Roll type sizing will be performed when the machine is turned on. Then the cutting plotter is ready to work.

## Step 9

Use the reverse steps to remove the media.

Note:

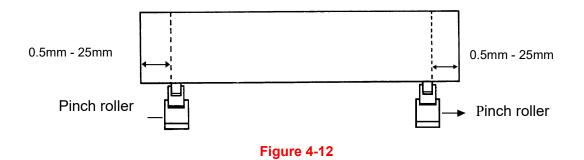
Make sure that the media tension is equally distributed from left to right. If the media were not tightened enough against the platen, it would cause tracking problems!



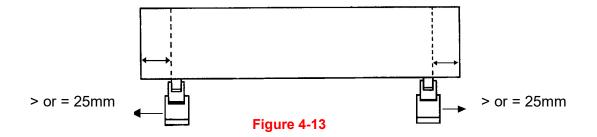
## 4.2 Tracking Performance

In order to achieve the best tracking performance for a long plot, we recommend some significant media loading procedures described as follows:

If the media length is less than 4 meters, leave the margin of 0.5mm—25mm in the left and right edges of the media (Figure 4-12).



If the media length is greater than 4 meters, leave at least 25mm margin on the left and right edges of the media (Figure 4-13).



Please refer to the paragraph "4.5 How to Make A Long Plot" for more details.



#### 4.3 Cutting Force and Offset Adjustment

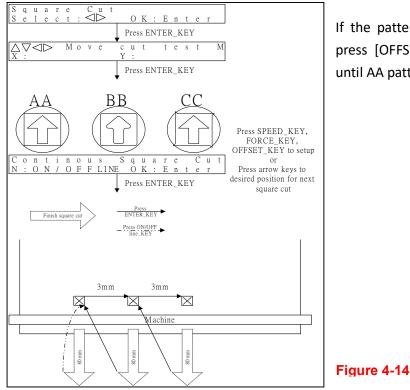
Before sending your designs for cutting, you may perform a "cut test" to generate satisfactory cutting results. The "Cut Test" should be repeated until the appropriate cutting conditions for the media are discovered.

After sizing the media, press [CUT TEST] button to select the "square cut", and press [ENTER KEY] to confirm.

The default cutting force and offset value of the cutting test are 80gf and 0.275mm respectively. Press [ARROW KEY] to move the tool carriage to the position where you like. Then, press the [ENTER KEY] to perform Cut Test.

Note: At the same time, the new origin is also set at the cutting test position.

When the cutting test is completed, a pattern appears. Peel off the pattern to see if it can be easily separated from the media base. If yes, the setup tool force is appropriate. If not or cut through the back paper, press [FORCE KEY] to adjust the tool force until an optimum force is obtained (Figure 4-14).



If the pattern appears to be BB or CC layout, press [OFFSET KEY] to adjust the offset value until AA pattern discovered.



### 4.4 How to Cut 3mm Letters

To obtain good quality output, narrow media is recommended. However, if wide media is used, you should:

- Position two pinch rollers as close as possible to both edges of the cutting area. 1.
- 2. Make sure the loaded media is held flat with equal tension across the platen.
- 3. Suggested operation settings:

Tool force: 55 gf. (or depending on the material) Cutting speed: 45-50 cm/sec Tool up speed: 45-60 cm/sec Smooth cut: Disable **Quality: Small Letter** 

#### 4.5 How to Make a Long Plot

When you are making a long plot with a roll of heavy and wide vinyl, paper you need to use the "AUTO UNROLL MEDIA" function. The following parameter settings are to help users get the best cutting quality. The actual output quality may vary when using different kind of materials

- 1. If the length of graphic is between 3m and 5m, the cutting speed is better slower than 72cm/sec and the cutting quality is set as Normal.
- 2. If the length is longer than 5m or if the material type is difficult to cut, it is better to further slow down the cutting speed.
- 3. After loading the roll media all pinch rollers are raised at this stage, flatten the media on the platen and hold the front edge of the roll media firmly (Figure 4-15).

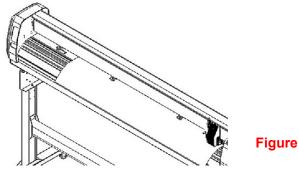
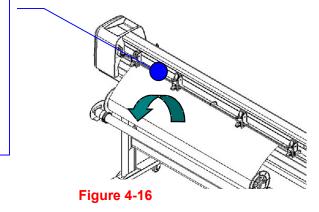


Figure 4-15



Then turn the roll downward to make an equal tension across the media (See Figure 4-16)

Make sure that the media tension is equally distributed from left to right. If the media is not tight enough against the platen, it will cause tracking problems.



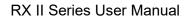
- 4. Engage pinch rollers.
- 5. Fixes roll media guide bushes on the roll holder to secure the roll media.
- 6. The protrusion length of the blade should be longer than the thickness of the vinyl. (Please check the "Blade Specification: About the Tool" in Appendix.) After you notice all the above, you'll enjoy your gigantic signs production!

## 4.6 When Completing the Cutting Job

After completing the cutting job, raise the sheet-loading lever, and then remove the material. You can also cut off the finished job by the Safe Blade (a standard accessory) along the knife guide. (Figure 4-17). Or move the carriage to the position you want to cut off the material and then press the "CUT OFF" button on the control panel. The material will be cut off automatically.



Figure 4-17





## 4.7 RX II series Print Driver setting

Setting		File Function	
Quaility:	Normal 👻	Save	
Blade:	Red Blade 🔻	Load	
Use	Plotter Setting	Original Save To Default	
	to Home		
		Delete	
AAS:	Origin using printer setting	History File	
Auto	CutOFF mm		
Vector Function	,		
Normal			
X Sortin	-		
Inside C	Path Optimazation		
<ul> <li>Section</li> </ul>			
⊚ By	Registration Marks	Setting	
At	200 mm intervals	Reflective_film.RX Vinyl.RX Window_tint.RX	

#### 4.7.1 RX II series Print Driver setting > Option Page

**Setting:** You can adjust the following settings, depending on your application or results you would like to achieve.

#### **Quality:**

[Slower speeds / higher quality - Faster speeds / lower quality]

The Cutting Quality setting function allows you to adjust and balance vector mode's quality and speed settings based on your specific job. Draft Mode offers the highest output speed, sacrificing quality. Whereas Small letter Mode offers the highest quality, sacrificing output speed. Keep in mind that speed and quality are usually at a tradeoff.

#### Blade:

Choose the blade type used for this job.

#### Use Plotter Setting:

The parameter settings will be set according to those set from the control panel.



#### Back to home:

The carriage will return to the original position when this option is selected.

#### Auto Cut off:

This feature allows users to set the cutter to cut off the media after the completion of each job making it easy to set up an unattended workflow for mass production. The material will be cut off automatically once you click the Auto Cut off function on GCC driver and set the distance between the cutting image and the cut off line.

The default is 10mm meaning the material will be cut off after 10mm of the image. The value for the cut off function is adjustable. You can set the value between 0mm-100mm depending on your need.

#### **Vector Function**

#### 1. Normal:

This is the default Vector Function setting. The cutting order depends on the order of the graphics created in the application software.

#### 2. X sorting:

The cutting order is based on the next closest object on the x-axis from the origin. The cutting order of the sample below will be 1,2,3,4 (please refer to figure 4-20).

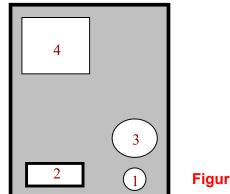


Figure 4-19



#### 3. Inside Out Cutting:

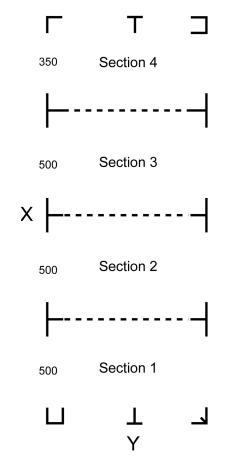
When performing a vector cutting job in which your image has one vector cut area enclosed within another vector cut area, select the Inside-out Sorting mode. This mode will automatically instruct the print driver to process the inside vector image and moving outwards. This setting will always automatically direct the cutter to cut from the inner most vector shape and move outwards.

#### 4. Cutting Path Optimization:

This is a setting that will minimize your process time. When selected, the print driver will analyze your image and automatically determine the most efficient processing path to process your image.

#### 5. Section Cutting:

Users can output long picture by section cutting which could make cutting more stable and get superior cutting quality. Users can set the section by registration marks or input the value manually. When cutting plotter finishing cutting in section 1, it will continue to cut in section 2. The picture is shown as below:





#### File Function (Option Page):

The file function section allows you to manage various cutter parameters. This section is useful when performing repeated jobs on a variety of objects, allowing you to save your frequently used cutter parameters and load them in the future.

- **Custom Media:** This section lists the files for the parameter settings that you have recently created and worked. You can save more than 50 files to simplify your cutting job.
- **Default:** This section contains the reference settings that are applicable with the verified materials to achieve the best cutting results. Please note that the setting value might need to be adjusted according to different suppliers of materials.
- SAVE: This function will save current print driver parameter settings to a file under the specified location on your computer. (Saved parameter setting files will be tagged with the RX II series extension)
- LOAD: This function allows you to load previously saved print driver parameters.
- ORIGINAL: This function will load the print driver's original factory parameter settings.
- **SAVE TO DEFAULT:** This function allows you to save your current print driver parameters as the default startup settings.
- **DELETE:** This function will delete the file you select from the Custom Media section, whileas the settings in Default section cannot be deleted. Please note the delete function only removes the file from the Custom Media section, it does not remove the .RX file from your hard drive, if you wish to completely remove the file from your hard disk, and you will have to manually delete the file from your operating system.

#### Note:

If you are using Windows 2000 or XP as your operating system, then make sure you login with an administrator or administrator-rights account in order to properly save cutter parameter settings.

#### 4.7.2 RX II series Print Driver setting > Pen Page

The RX II series incorporates the use of 16 different colors to represent 16 different parameter settings including cutting speed, force and blade offset settings when cutting. These colors are referred to as "Pens". Think of each pen as a designated cutter setting, rather than as a color. An image that is made up of black, red and blue colors will be processed using the cutter settings designated for each particular color. In order to utilize up to 16 different pens (cutter parameter settings), make sure your graphics software can recognize and utilizes the 16 pen colors designated by the GCC RX II series print driver (please refer to figure 4-21).

ptions Pen	Paper	AAS I	nstaller				
No. Color	Speed	Force	Offset (	) ver Cut(mm) Start/End	Length (mm)		
1	72	80	0.250	N Z A	0.0	^	
2	72	80	0.250	N/A	0.0		
2 📕	72	80	0.250	N/A	0.0		
	72	80	0.250	NZA	0.0		
5	72	80	0.250	N/A	0.0		
6	72	80	0.250	NZA -	0.0		
4 5 6 7 8 9	72	80	0.250	N/A	0.0		
8 📃	72	80	0.250	NZA	0.0		
	72	80	0.250	NZA	0.0		
10	72	80	0.250	N/A	0.0		
11	72	80	0.250	N/A	0.0		
12	72	80	0.250	N/A	0.0	×	
Speed: 🔄				•	72 cm/s		
Force:				•	80 g		
Offset:				•	0.250 mm		
Length:				Þ	0.0 mm	🔲 Die Cut	
C Over Cut			Image Scalin	g			
Start: 0.0	in mm		X: 🔳		•	500 / 500 mm	
End: 0.0	mm		Y: 🔳		•	500 / 500 mm	
							Figur

If you would like to specify your own colors to designate to a particular cutter setting, then all you have to do is to double-click on that particular pen color from the pen menu and a color manager window will open where you can select "define custom colors" to define your own color (shown in the picture below). This is useful when your image is composed of colors that are not part of the pen menu's default color selection, and instead of modifying your image, you simply would like to assign the cutter settings based on the existing colors from your current image.



No.	Color	Paper Speed	Force	Offset	Over Cut (mm)	Length (mm)	
110.	00101	opcou		United	Start / End	Congar (mm)	
1		72	80	0.250	0.0 / 0.0	0.0	
2		72	80	0.250	N/A	0.0	
3		72	80	0.250	N / A	0.0	
4		72	80	Color			
5		72	80				
6		72	80	Basic	colors:		
7		72	80				
8		72	80				
9		72	80				
10		72	80				
11		72	80				
12		72	80				
Speed	• •						
Force	: •			Custor	n colors:		
Offset	: •	_					Figure 4-2
Lengt	h 🕙						-

#### Note:

The GCC RX II series driver cannot store more than 16 pen colors or different cutter parameter settings per file.

#### Speed (Pen Page) [DEFAULT SETTING: 72cm/sec]

The speed slider controls the cutter's cutting speed during operation with a range setting from 3 - 153 cm/sec. The GCC RX II series maximum cutting speed is 153 cm (60 inches) per second.

#### Force (Pen Page) [DEFAULT SETTING: 80g]

The force slider controls the cutting force during operation with a range setting from 0 - 600g.

#### Offset (Pen Page) [DEFAULT SETTING: 0.25mm]

The offset slider controls the blade offset depending on the blade you used.

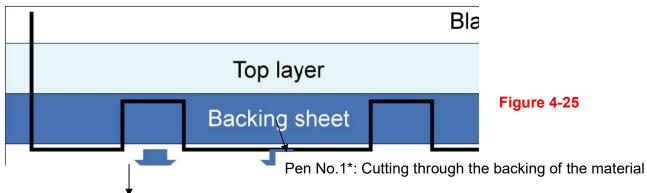
#### Die Cut (Pen Page)

The Die Cut function can allow you to cut through the backing of the material. You can only use the first 8 pen for this function. If you choose Pen No.1 and click the Die Cut function, the Pen No.9 will become Pen No.1\* for setting different parameter for the same cutting line. (Figure 4-24)

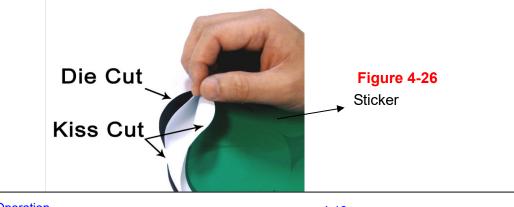


)ptions Per	n Pa	per /	AS Ins	taller				
No. C	Color Sp	eed F	orce	Offset	Over Cut(mm) Start/End	Length (mm)	)	
1	7.		80	0.250	N Z A	0.0		
2	7	۷.	88	0.250	N/A	0.0		
3	7:		80	0.250	N Z A	0.0		
4	7:		80	0.250	N/A	0.0		
5	7:		80	0.250	N/A	0.0	=	
6	7:		80	0.250	N/A	0.0		
7	7:		80	0.250	N/A	0.0		
8	73		80	0.250	N/A	0.0		
9	7.		80	0.250	N/A	0.0		
10	7:		80	0.250	N/A	0.0		
11	7.		80	0.250	N/A	0.0		
12	7:	2	80	0.250	N Z A	0.0	<b>~</b>	
Speed :	4				•	72 cm/s		
Force:	•				F			
orce:								
Offset:	•				•	0.250 mm		
.ength:					÷	0.0 mm	🐱 Die Cut	Die Cut warning
	_		In	nage Scal	ina			
C Over	Cut							No.9 will be set as the Die Cut parame
		mm	×	: •		•	500 / 500 mm	continue? (Yes/No)
En	d: 0.0	mm	Y	': I		▶	500 / 500 mm	Yes No
			Eia	ure 4	22			Figure 4-24

You can adjust the parameter such as force and length in both Pen No.1 and Pen No. 1\* as you need. For example:



Pen No.1: Cutting through the vinyl only





#### Image Scaling (Pen Page)

The Image Scaling function can allow you to set the image scale of media length and width to decrease the difference between the actual length and the ideal length caused by various media used while processing cutting job.

#### 4.7.3 RX II series Print Driver setting > Paper Page

RXII-1019	Properties	;				×
General	Sharing	Ports	Advanced Paper	Color Management	Security	Options
	Pen		i apei		AAS Installer	
Pap	oer Size			Unit		
	X:	2032.00	mm	Metric (mm)		
	Y:	1016.00	mm	🔘 Imperial (inch)		
Lar	iguage					
(	English			▼ Change		
Ver	sion No.					
			RXII-1			
			All Rights R			
			DV 1.02	2-016		
			GC	and the second		
		С	opyright (c) Grea	at Computer Co.		
			www.gcc	world.com		
				ОК		

**Paper Size (Paper Page) [DEFAULT SETTING:** Y = the width of machine; X will be automatically set to be twice the length of Y]

The paper size represents your total work area. The X value represents the length and the Y value represents the width. The paper size should be set as the same as your image so you can get a better cutting quality.

#### Unit (Paper Page) [DEFAULT SETTING: Metric (mm)]

Here you can set your preferred measurement standard in which you would like use with the RX II series print driver. You can choose between metric or imperial standards.

## 4.8 How to set die/kiss cut through plug-in software for Adobe Illustrator and

#### CorelDraw

Die/kiss cut function allows you to define two cutting parameter in one cutting line, you can set through plug-in software for Adobe Illustrator and CorelDraw directly instead driver setting by designate the line to green color RGB 255 and then set the length and force from the control panel.

1. Select an outline that you want to do die/kiss cut in working area.

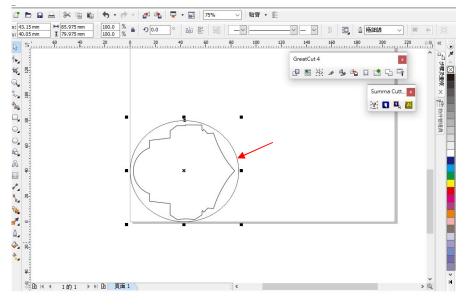


Figure 4-27

 Change the color to green color code RGB 255 then click "OK" (Note: Only green color code RGB 255 is identified as die/kiss cut function, please don't select other color otherwise the function cannot work)

Color:	Arrows	
Hairline   millimeters	✓ Options ✓ Options ✓	
Sty <u>l</u> e:	Share attributes	
Cogners: Miter limit: 5.0 Cogners: Cogners	Calligraphy Stretch: Nib shape: 100 0 % Angle: 0.0 0 0	Figure 4-28
Line caps: 😑 📼 📼	Default	
Position:	Behind fill	
Overprint outline	Scale with object	
0	K Cancel <u>H</u> elp	

Operation



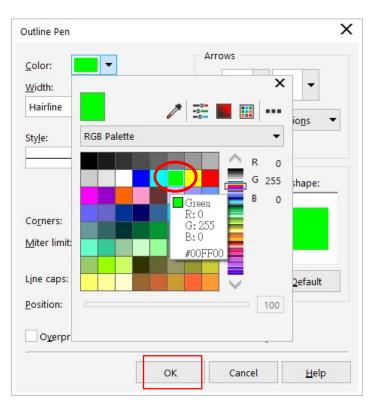
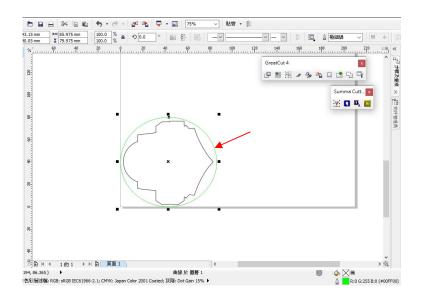


Figure 4-29

3. Outline color has been changed to Green.







4. Select "On/Off Line" > "MISC", use arrow key to select "Die/Kiss Cut" function then press "Enter".



 Click the left arrow key to the next page to adjust the length value (0.2mm ~ 9.0mm) then click "ENTER".



6. Click the left arrow key to the next page to adjust the force value (45g ~ 450g) then click "ENTER" and finish the setting.





## 4.9 How to create a file for cutting with barcode function

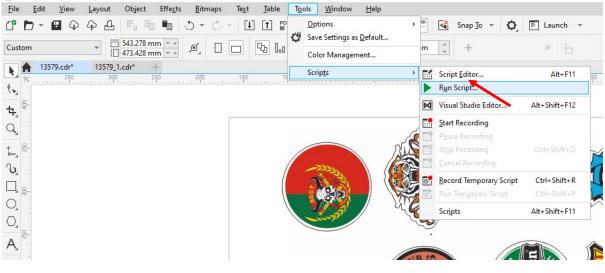
The barcode function allows the association of barcode graphics with cutting files. By adding barcode graphics to the cutting file, the plotter can automatically perform cuts based on the information encoded in the barcode. This is particularly useful for batch cutting or cutting tasks with specific requirements, as it provides higher efficiency and accuracy

1. Import the image you want to cut.



#### 2. Go to Tools -> Scripts -> Run Script...

CorelDRAW - D:\GCC-Alpha site\Cutter\Barcode Alpha site\13579.cdr\*





	Run Macro	Run Macro Macro name: Module.AAS_Plug_In Module.AAS_Plug_In	X Run Cancel Step Into
THE DON TO	Macro name:	Macros in: GlobalMacros (GCCAASII_Draw.gms) ~ Description: GCC's AASII Contour cutting System VBA	Edit Create Delete
	Macros in: VBAProject (13579_1) Description: <all projects="" standard=""> Calendar Wizard (Calenda: ColorChartCreator (Color ColorChartCreator (Color</all>		

3. Select "GlobalMacros (GCCAASII\_Draw.gms)" and select Run.

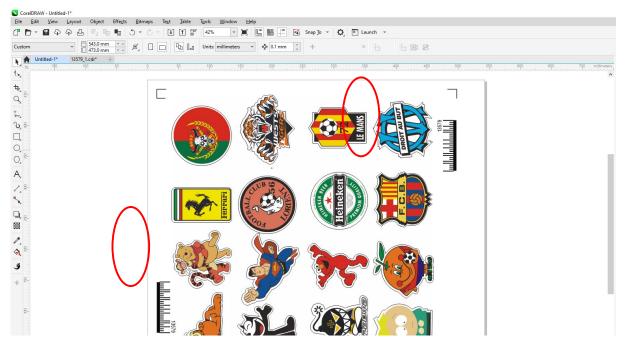
4. The "AASII Reg. Mark Setting" window will pop-up. Tick the Check box and click Apply.

✓ Generate barcode (3~12 digit numbers)         ✓ Generate barcode at both ends         13579         2-Point Positioning         4-Point Positioning         Length(mm):         15         (15~50)         Thickness(mm):         1         0         0         Segmental Positioning         X Step(mm):         500         (200~600)         Y Step(mm):         500         (200~600)         ^ Childrele Copies         No. of X Copies         1         1         (1~50)         No. of Y Copies         1         Copies with outline	Make by page	
13579         2-Point Positioning         4-Point Positioning         Length(mm):       15         15       (15~50)         Thickness(mm):       1         1       (1~2)         Margin(mm):       0       (0~50)         Segmental Positioning         X Step(mm):       500       (200~600)         Y Step(mm):       500       (200~600)         Y Step(mm):       500       (200~600)         No. of X Copies       1       (1~50)         No. of Y Copies       1       (1~50)		
2-Point Positioning         4-Point Positioning         Length(mm):       15         15       (15~50)         Thickness(mm):       1         1       (1~2)         Margin(mm):       0       (0~50)         Segmental Positioning         X Step(mm):       500       (200~600)         Y Step(mm):       500       (200~600)         Multiple Copies       1       (1~50)         No. of X Copies       1       (1~50)	Generate bar	code at both ends
• 4-Point Positioning         Length(mm):       15       (15~50)         Thickness(mm):       1       (1~2)         Margin(mm):       0       (0~50) <sup>C</sup> Segmental Positioning       X       X         X Step(mm):       500       (200~600)         Y Step(mm):       500       (200~600) <sup>C</sup> Multiple Copies       1       (1~50)         No. of Y Copies       1       (1~50)	13579	
Length(mm):       15       (15~50)         Thickness(mm):       1       (1~2)         Margin(mm):       0       (0~50)         Segmental Positioning         X Step(mm):       500       (200~600)         Y Step(mm):       500       (200~600)         Multiple Copies       1       (1~50)         No. of Y Copies       1       (1~50)	2-Point Positio	ning
133       1       (1~2)         Margin(mm):       0       (0~50)         Segmental Positioning       X       Step(mm):       500         X Step(mm):       500       (200~600)         Y Step(mm):       500       (200~600)         Y Step(mm):       500       (200~600)         Multiple Copies       1       (1~50)         No. of Y Copies       1       (1~50)	• 4-Point Positio	ning
Thickness(mm):       1       (1~2)         Margin(mm):       0       (0~50)         Segmental Positioning         X Step(mm):       500       (200~600)         Y Step(mm):       500       (200~600)         Y Step(mm):       500       (200~600)         Multiple Copies       1       (1~50)         No. of Y Copies       1       (1~50)	Length(mm):	15 (15~50)
Margin(mm):         0         (0~50)           Segmental Positioning           X Step(mm):         500         (200~600)           Y Step(mm):         500         (200~600)           Y Step(mm):         500         (200~600)           Multiple Copies         0         (1~50)           No. of Y Copies         1         (1~50)           No.         1         (1~50)	Thickness(mm):	(1.2)
X Step(mm):         500         (200~600)           Y Step(mm):         500         (200~600)           ^ Multiple Copies         1         (1~50)           No. of Y Copies         1         (1~50)	Margin(mm):	(2, 52)
X Step(mm):         500         (200~600)           Y Step(mm):         500         (200~600)           ^ Multiple Copies         1         (1~50)           No. of Y Copies         1         (1~50)	C Segmental Po	sitioning
Y Step(mm):         500         (200~600)           Y Multiple Copies         No. of X Copies         1         (1~50)           No. of Y Copies         1         (1~50)         1~50)		
Multiple Copies           No. of X Copies         1           No. of Y Copies         1           (1~50)		(200~600)
No. of X Copies 1 (1~50) No. of Y Copies 1 (1~50)	Y Step(mm):	500 (200~600)
No. of Y Copies 1 (1~50)	C Multiple Copie	5
No. of Y Copies 1 (1~50)	No. of X Copies	1 (1~50)
	No. of Y Copies	
	Copies with	

Note:	
Make	by page size: to generate barcode by page.
Gene	rate barcode (3~12 digit numbers): a barcode w
be ge	nerated associated with the numbers being
enter	ed. Please note that the barcode number must
be the	e same as the name of the cutting file.
Gene	rate barcode at both ends: to generate barcodes
at bot	h ends of the image.



5. The barcode will be generated.



6. Go to "Save As..." option in the File menu and choose the preferred file format for printing. Print the file using your printer to prepare it for later cutting.

-	CorelDRAW - Untitled-1*					_		
<u>F</u> ile		/ou Ctrl	Save Drawing					
	New from Template			→ This PC → Local Dis	k (D:) → GCC-Alpha site →	Cutter > Barcode Alph	ia site	
5	Open	Ctrl	Organize - Ne	ew folder				
Ð	Open from Cloud Open <u>R</u> ecent		A Quick access	^	Name		Date modified	Туре
	Document Managemen	it.	Creative Cloud	Al - Adobe Illustrator (*.a	20		No items mate	ch your sea
×	Close	_	😻 Dropbox	CDR - CoreIDRAW (*.cdr CDRT/CDT - CoreIDRAW	)			
Ę	Close All		🔷 OneDrive - Per	PDF - Adobe Portable Do CMX - Corel Presentatio	ocument Format (*.pdf) n Exchange Legacy (*.cmx)			
÷	Save	Ctr 📕	This PC	Al - Adobe Illustrator (*.a	ai)			
	Save <u>A</u> s Ctrl+S	Ctr Shif	3D Objects	CDR - CoreIDRAW (*.cdr CDRT/CDT - CoreIDRAW				
G	Save to Cloud		99Office	CGM - Computer Graphi CMX - Corel Presentation				
目	Save as Template		Desktop	CMX - Corel Presentation	n Exchange Legacy (*.cmx)			
a.5	Revert	9	Documents	CSL - Corel Symbol Libra DES - Corel DESIGNER (* DWG - AutoCAD (*.dwg)	.des)			
	Acquire Image	20	GCCDatabas	DXF - AutoCAD (*.dxf)				
t]	Import	Ct		EMF - Enhanced Window FMV - Frame Vector Met				
t]	Export	Ctr Ctr	Music	GEM - GEM File (*.gem) PAT - Pattern File (*.pat)				
	Export For		OS工安部	PDF - Adobe Portable Do PCT - Macintosh PICT (*				
	Send To	0.20	Pictures	PLT - HPGL Plotter File (	*.plt;*.hgl)			
PDF	Publish to PDF		Videos	SVG - Scalable Vector Gr SVGZ - Compressed SVG	(*.svgz)			
			File name:	WMF - Windows Metafil WPG - Corel WordPerfect	e (*.wmt) t Graphic (*.wpg)			



7. Go to "Print..." option in the File menu or click "Print" to open the Print window to save the cutting file for cutting with barcode function.

File	<u>Edit V</u> iew <u>L</u> ayou	CoreIDRAW - Untitled-1*
	New     Ctrl       New from Template        Open     Ctrl       Open from Cloud        Open Recent        Document Management	
ľ ť	<u>Close</u> C <u>lose</u> All	
•	Save Ctr	
¢.	Save <u>A</u> s Ctrl+Shif	
₽ ₽ ₽	Save to Cloud Save as Te <u>m</u> plate Rever <u>t</u>	
	Acquire Image	
[1]	Import Ct	
-		
	Export Ctr	
	Export Ctr Export Fo <u>r</u>	

8. Navigate to "Layout" tab to set the Reposition artwork to Bottom left corner.

O As in O <u>F</u> it to	oosition and document page						
<ul> <li><u>R</u>еро</li> </ul>	sition artwo	rk to Bottor	m left corne	r -			0
Settings Posit		e 1 🐨 Size:	Scale	factor	# of tiles		
x: -328.		₩ 486.5 mm	* * <b>100</b> * * 100		1	D	
	pages verlap: 0	.0 mm ț	Include ti	ling <u>m</u> arks	age width		
BI	eed limit:	4.0 mm	- 				
Impositio	n layout:	As in docum	ent (Full Pa	ge)		*	<u>E</u> dit



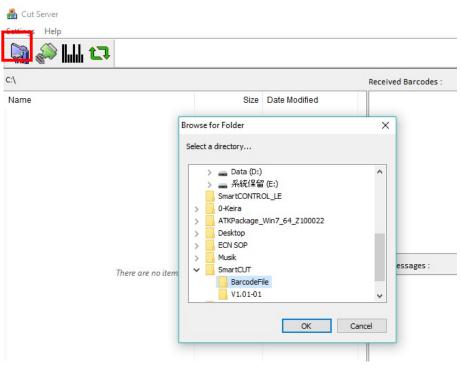
9. Go to "General" tab and check the "Print to file" option, then click Print.

~ <b>Q</b>
Use PPD
<ul> <li>✓ Print to file</li> <li>Single File</li> </ul>
Copies Number of copies: 1
Print as <u>b</u> itmap: 300 门 dpi
- Sa <u>v</u> e As

Note: make sure the file name is the same as the number of the barcode in step 4.

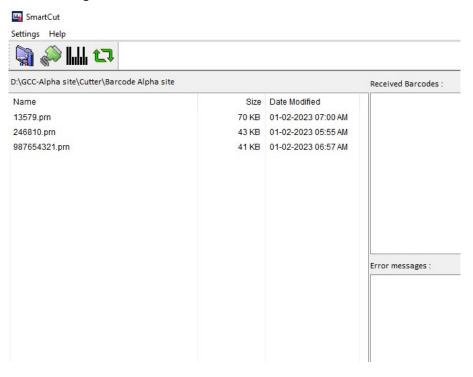
ganize 🔻 New folder						
Creative Cloud Files	^	Name	Date modified	Туре	Size	
		13579.prn	2023/2/1 下午 03:00	PRN File	70 KB	
Dropbox		246810.prn	2023/2/1 下午 01:55	PRN File	43 KB	
OneDrive - Personal		987654321.prn	2023/2/1 下午 02:57	PRN File	41 KB	
This PC						
3D Objects						
99Office						
Desktop						
Documents						
🕹 Downloads						
GCCDatabase (gcc8)						
Inkjet Product						
Music						
OS工安部						
Pictures						
Videos						
S (C:)						
Local Disk (D:)						
Network	~					
File name: 13579.prn						
Save as type: Print File (*.prn						





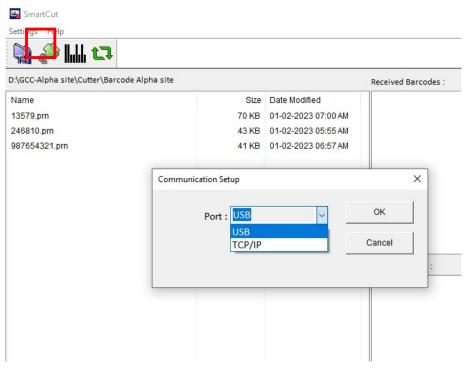
#### 10. Open SmartCUT. Designate the folder location to set the directory and click OK.

All files being saved for cut with barcode function in this hot folder will be displayed.

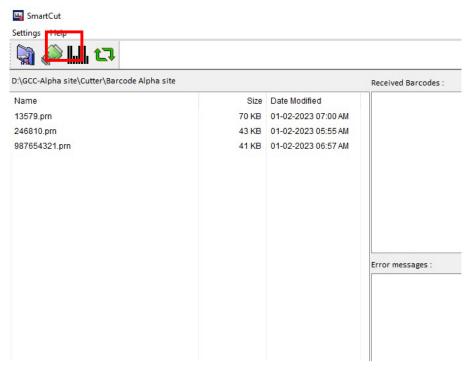




#### 11. Set the communication port and click OK.



12. Load the printed media. Click on Scan icon to start barcode detecting and cutting.





Note:

If you add a new file to the hot folder, click the 'Refresh' button, and the newly added file will be displayed."

If there are any errors, the details will be shown in the Error Messages box

Settings Help			
C:\Users\keira.lee\Desktop\SmartCUT\BarcodeFile			Received Barcodes
Name	Size	Date Modified	
151106102102.pm	1 KB	02-08-2017 05:26 AM	
170801000021.pm	1 KB	02-08-2017 05:26 AM	
170801000022-new.prn	1 KB	02-08-2017 05:26 AM	
17080200001.prn	1 KB	02-08-2017 06:12 AM	
			1
			Error messages :

Note:

If the machine does not respond, reboot the machine to restore the operation.

## **4.10** Reference Parameter setting for different materials

Material	Personalized/ Wall stickers	Vehicle stickers	Window decoration	Window tint
Blade	red	red	red	red / yellow
Blade tip length (mm)	0.28	0.27	0.25	0.09
Force (g)	105	85	95	70
Speed (cm/sec)	72	60	65	72
Offset (mm)	0.25	0.25	0.25	0.25
Recommend model	RX, Jaguar, Puma, EX, AR	RX, Jaguar, Puma, EX, AR	RX, Jaguar, Puma, EX, AR	RX, Jaguar, Puma, EX, AR
Material	Stencil	Reflective film	Flock	Cardboard
Blade	red / green	green	green	green
Blade tip length (mm)	0.3	0.5	0.3	0.3
Force (g)	180	380	135	165
Speed (cm/sec)	15	3	30	30
Offset (mm)	0.25 / 0.5	0.5	0.5	0.5
Recommend model	RX, Jaguar, Puma, EX, AR	RX, Jaguar, Puma, EX	RX, Jaguar, Puma, EX, AR	RX, Jaguar, Puma, EX, AR
Material	Magnets	Protective tint	Rhinestone	Sandblast mask
Blade	green	green	green	blue
Blade tip length (mm)	0.8	0.3	0.8	0.27
Force (g)	580	320	190	85
Speed (cm/sec)	3	3	15	60
Offset (mm)	0.5	0.5	0.5	0.25
Recommend model	RX, Jaguar	RX, Jaguar, Puma, EX	RX, Jaguar, Puma	RX, Jaguar, Puma, EX, AR
Material	Small text (vinyl)			
Blade	black			
Blade tip length (mm)	0.27			
Force (g)	thick: 150 thin: 90			
Speed (cm/sec)	9			
Offset (mm)	0.175			
Recommend model	RX, Jaguar, Puma			
	1	1		

The following reference parameter is used on GCC verified materials shown in the table.



# **Chapter 5 Automatic-Aligning System**

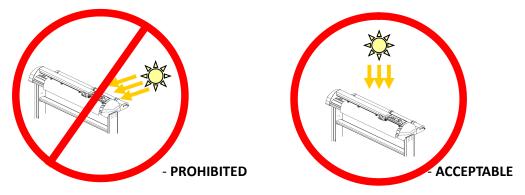
Please note that this chapter is only an instruction to AASII; for step-by-step instructions, please refer to the following chapters: 08\_A-3 CorelDraw Plug-In, 08\_A-4 Illustrator Plug-In, 08\_A-5 GreatCut Plug-In.

## 5.1 Introduction

Notice

The RX II series cutting plotters feature a standard Automatic-Aligning System (AAS II) to guarantee precise contour cutting quality by detecting the registration marks printed around the graphic.

• Avoid any kind of light source horizontally illuminating the AAS module.



DO NOT take off the cover of AAS module while in operation.



- PROHIBITED

GCC

## 5.2 AAS Contour Cutting System

The AAS system has one calibration procedures to ensure maximum accuracy of AAS operation. To operate the AAS you need to learn about the method of media feeding firstly. (Refer to 4.1 Media Loading.)

#### 5.2.1 Notice for Registration Marks

The first registration mark is designed to be different in order to identify the origin for AAS auto-detection. The following precaution must be aware for registration marks to be read automatically.

- Type of media
- Registration mark pattern
- Reading range required for detection the registration marks
- Position for registration marks and medium

The registration marks have to be:

- Created by cutting software like GreatCut or GCC CorelDRAW plug-in
- In black color (printing quality of registration marks is essential; incorrect, misaligned colors, blurry or smeared printout might leading to inaccurate cutting result)
- Length: The length of marks
  - → Range: 5mm~50mm
  - → Optimized Setting: 25mm
- Thickness: The line thickness of marks
  - → Range: 1mm~2mm
  - $\rightarrow$  Optimized Setting: 1mm
- Margin: The distance between marks and images
  - → Range: 0mm~50mm
  - → Optimized Setting: 5mm

The cutter can not detect the marks while:

- Cutter carriage is not located near the outside area of first mark before detecting (See the picture in page 5-7 for auto-detecting area of first mark.)
- Medium thickness is more than 0.8mm
- Transparent medium is used
- Non-monochrome drawing. The marks can't be read if is printed on colored medium
- Dirty or creased medium surface



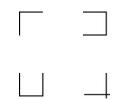
#### 5.2.2 AAS II on RX II series

There are three types of AAS II mark patterns: 4-Point Positioning, Segmental Positioning, and Multiple Copies. Note that before print out your designs by inkjet printers, the registration marks have to be created on your graphic designs by cutting software like GreatCut, SignPal or GCC CorelDraw plug-in. Hand-made marks or drawings won't be reorganized by GCC cutting plotters. For more details about registration mark setting in cutting software, please refer to appendices for detailed instruction.

#### 1. 4-Point Positioning

This is the basic mark pattern that AAS II will auto detect four registration marks and contour cut images inside those marks.

- Command: Esc.D1;(XDist);(YDist):
- Layout: 4 registration marks at the 4 corners around the design

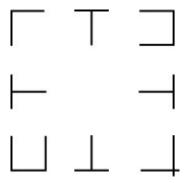


#### 2. Segmental Positioning

In addition to 4 original points, the intermediate registration marks are added on both X axis and Y axis to help contour cut accurately, especially for cutting large images.

- **Command:** Esc.D2;(XDist);(YDist);(XStep);(YStep):
- Layout:

In-between distance on X: 200~600mm, default 300mm In-between distance on Y: 200-600mm, default 300mm

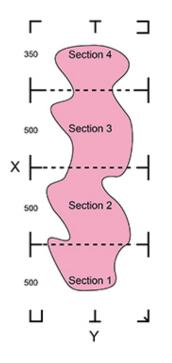




#### High Precision Long Picture Cutting

RX II series performs section cutting to enhance output qualities.

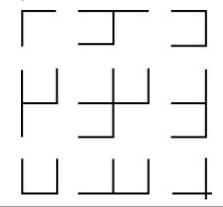
- •The object will be output following the section pattern based on the Segmental Positioning parameters.
- ●Cutting sequence: Section1-> Section 2-> Section 3- > Section 4



#### 3. Multiple Copies

The function is used to duplicate images to let you cut quantities of images at a time. The AAS II sensor will automatically scan registration marks for each individual image to ensure the contour cutting precision.

- **Command:** Esc.D3;(XCopies);(YCopies);(Space):
- Layout:



#### 5.2.3 5.2.3 Automatic Distinction of the Plot Direction

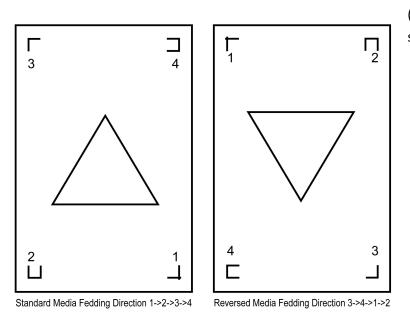
For the convenience of users, RX II series automatically detects the feeding direction of the material when performing contour cutting. Figure 5-1 shows the Registration Mark detection sequence when the material is fed in the standard way (1->2->3->4) while Figure 5-2 is how RX II series detects registration marks (3->4->1->2) when the material is reversely fed. RX II series is able to detect registration marks and performs contour cutting however users feed the media.

#### **Direction detection steps:**

(Please see Figure 5-2)

C

- a. Detects the position of the 3rd Registration Mark
- b. Proceeds to the 4th Registration Mark to detect the direction
- (The direction detection procedure will be performed by the detection of 4th Registration Mark)
- c. The information is reflected in the driver and recalculated before output
- d. The registration mark detection and object output process is implemented



(Registration Mark detection sequence: 3->4->1->2)



Figure 5-2



## 5.3 Printer Test

Before performing AAS contour cutting, it's recommended to print out a test file to make sure the AAS II cutting accuracy. Please visit GCC website and go to Download Area to download the test files.

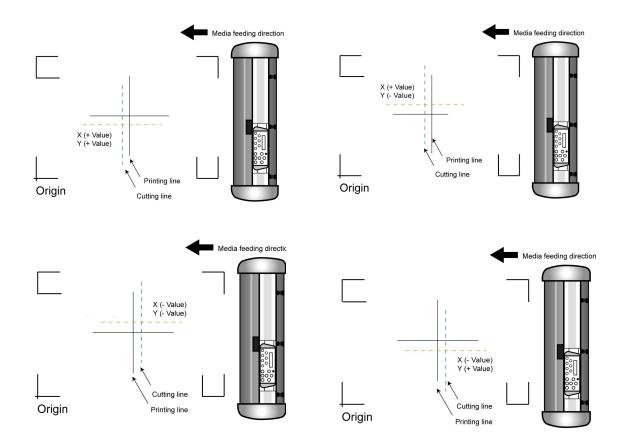
https://www.gccworld.com/download.php?act=view&id=20

GCC	Company	Applications	Products	Technology	Support	Contact	Link	en	Q
Software								)	•
Product Broc	hure							)	•
Driver								)	•
User Manual								)	•
Other									
Title						Size		Download	
Cutter AAS Offs	et Test Files					3.0MB		Download	
Cutter Clipart I	ibrary (AE file)					1107KB		Download	^

There are two testing files for AASII:

- 1. AAS II\_X\_Y\_Offset\_Caberation\_A4 .eps (A4 size)
- AAS II\_X\_Y\_Offset\_Caberation\_600\_600 .eps (Default setting, it is recommended for testing)
  - Print out the testing graphic. (Please use high precision printer)
  - Load the graphic to RX II series and sent the file to test the cutting job
  - If there are any adjustments to be made, you can change the offset value by following the steps:
    - Measure the offset values from the printed line and the actual cutting line.
    - Enter the AAS Offset under MISC function for the values you just measured, then press Enter
    - Test the cutting again
    - AAS II offset X and Y value is defined as following:
      - Horizontal line is defined as X and vertical is defined as Y (when facing the cutting plotter)

■ When the actual cutting line and the printed line need to be changed towards the direction of origin mark, then simply add the negative value of the offset. If the direction is from the opposite of the origin mark, then enter positive values for the offset (see the following figures). This method a "... both "... axes."



#### Note:

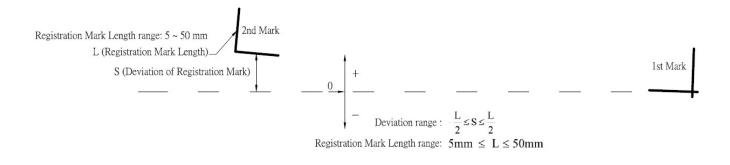
GCC

- Before adjusting the AAS II settings, please proceed scaling for width and length.
- The blade offset value isn't set for this test graphic, please set it according to the blade you use.
- If you have any question, please contact us or your local distributor for assistance.



# 5.4 Registration Mark Offset Range

Please correctly load your media (refer to the alignment ruler on the platen) to make sure the registration marks are successfully detected. Deviation exceeds the range below will lead to detection failure.



## 5.5 Contour Cutting

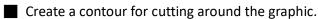
For accurate contour cutting with AAS function, please proceed the following steps:



#### **Creating Graphics**

Create the graphic that you want to print and cut in your software.





. BARY



TIPS1: Leave some space between the graphic and contour line.

TIPS2: Create the contour in a separate layer and assign a different color for it.

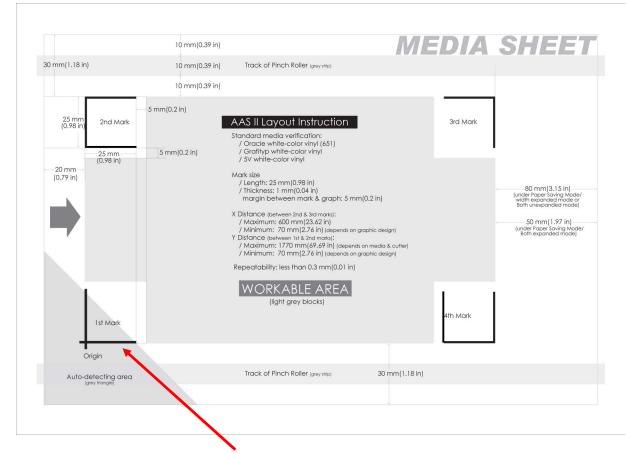
Add registration marks around the graphic.

#### Note:

The Multiple Copies function is also available. It automatically copy the graphic and registration marks.



# Step 2 Placing the Registration Marks The AAS Layout Instruction:



- \* Auto-detection function on the 1<sup>st</sup> mark covers the grey area
  - Suggested 30mm margin on both left and right sides of media sheet.
  - Suggested 20~30mm margin on top of media sheet, and at least 50mm margin on the bottom edge to prevent sheets dropping or any error occurred while media sizing.

#### Step 3

#### Print the Graphics

Print the graphic and the marks with your printer



(Scaling = 100%).

When printing on a roll media, make sure the orientation as following:



#### Step 4 Load the printout onto cutter

The Origin Mark is is different from the rest registration marks. Please make sure the media is fed with correct direction.





#### **Cut the Contour**

Send out the command from software to perform the contour cutting job.

#### 5.6 Tips for AAS

For getting better results of contour cutting, there are some tips below for your reference.

- Keep light sources simple and avoid illuminating from the sides of cutter.
- Before operating AAS, change the maximum paper size in RX II series driver property.
   Step 1 Find the RX II model in the "Printer & Fax" folder of your PC.
   Step 2 Open the Properties window and select the "Paper" tab.
   Step 3 Change the maximum Paper Size of X to 1200mm.
- Adjust the cutting speed to between 300~600mm/sec.
- Avoid the registration marks locating on the tracks of pinch rollers.
- Make sure the edge of the media is not bent up when detecting registration marks.



# **Chapter 6 Maintenance**

This chapter explains the basic maintenance (i.e. cleaning the cutting plotter) required for the cutting plotter. Except for the procedures mentioned below, all other maintenance must be performed by a qualified service technician.

# 6.1 Cleaning the Cutting Plotter

Cleaning the machine properly and regularly will ensure optimal performance out of your machine.

#### Cleaning Precaution!



- Unplug the cutting plotter before cleaning it in order to prevent electrical shock.
- Never use solvents, abrasive cleaners or strong detergents for cleaning. They may damage the surface of the cutting plotter and the moving parts.

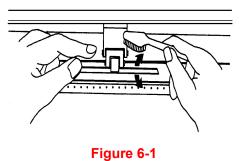
#### **Recommended Methods:**

- Gently wipe the cutting plotter surface with a lint-free cloth. If necessary, with a damp cloth immersed in water or alcohol. Dry and wipe any remaining residue off a soft, lint-free cloth.
- Wipe all dust and dirt from the tool carriage rails.
- Use a vacuum cleaner to empty any accumulated dirt and media residue beneath the pinch roller housing.
- Clean the platen, paper sensors and pinch rollers with a damp cloth immersed in water or alcohol, and dry with a soft, lint-free cloth.
- Wipe dust and dirt from the stand.



## 6.2 Cleaning the Grid Drum

- 1. Turn off the cutting plotter, and move the tool carriage away from the area needed to be cleaned.
- 2. Raise the pinch rollers and move them away from the grid drum for cleaning.
- 3. Use a bristle brush (a toothbrush is acceptable) to remove dust from the drum surface. Rotate the drum manually while cleaning. Refer to Figure 6-1.



## 6.3 Cleaning the Pinch Rollers

- 1. If the pinch rollers require a thorough cleaning, use a lint-free cloth or cotton swab to wipe away the accumulated dust from the rubber portion of the pinch rollers. To prevent the pinch rollers from rotating while cleaning, use your finger to hold the pinch rollers to prevent them from rotation
- 2. To remove the deeply-embedded or persistent dust, use the lint-free cloth or cotton swab moistened with rubbing alcohol.

**Note:** The daily maintenance of your cutting plotter is very important. Be sure to clean up the grid drum and pinch rollers regularly for better cutting accuracy and output quality.

# **Chapter 7 Trouble Shooting**

This chapter is to help you correct some common problems you may come across. Prior to getting into the details of this chapter, please be sure that your application environment is compatible with the cutting plotter.

#### Note:

Before having your cutting plotter serviced, please make certain that the malfunction is in your cutting plotter, not the result of an interface problem or a malfunction in your computer or a software problem.



Why is the cutting plotter not functioning?

#### **Possible Causes:**

#### 7.1 Non-Operational Problems

Check the following first:

- Does the AC power cord plug in properly?
- Does the AC power cord connected to the power connector properly?
- Does the power LED still illuminate?

#### Solutions:

If the LCM is able to display the message, the cutting plotter should be in a normal condition. Switch off the cutting plotter and turn it on again to see if the problem still existing.

If the LCM is not able to display any message, contact the technician from your dealer.



# 7.2 Operational Problems

Some mechanical problems or failure during operation will cause some problems. The error messages shown on the LCM present the problem first, and followed by recommended actions. If the problem still exists after the recommended actions have been done, have your cutting plotter serviced.

Error, Check Media Or Drum or X Motor This message indicates that there might be a problem on the **X axis**. Check if the drum is working well and if the media is well loaded. Correct the problem and re-power on to reboot system.

Error, Check Media Or Y Motor This message indicates that there might be an obstruction to carriage relating to a problem on the **Y axis**. Correct the problem and re-power on to reboot system.

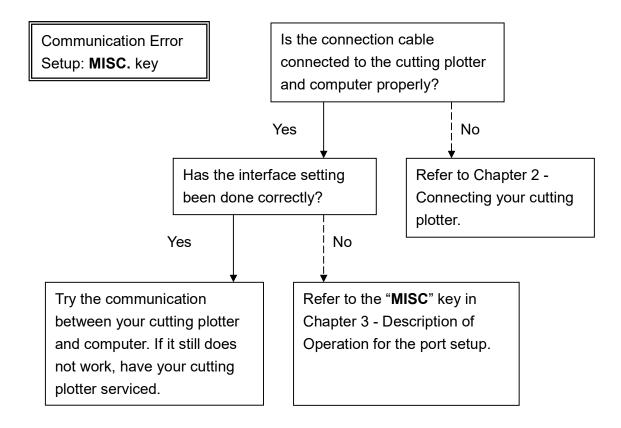
Error, Check Carriage Sensor or VC Motor This message indicates that the blade up/down sensor malfunction. Re-power on to re-boot system. If the problem still exists, find a serviceman.

Graph Was Clipped. Data In Buffer This message indicates that the cutting exceeds the cutting limit. Reload larger media or re-scale the plot to a smaller size; then press the key followed by the display of LCM to continue.



# 7.3 Cutting Plotter/Computer Communication Problems

The messages showed below present problems in relation to cutting plotter/computer communication.



#### Note:

The computer also needs to set up compatible communication parameters to the cutting plotter set up.

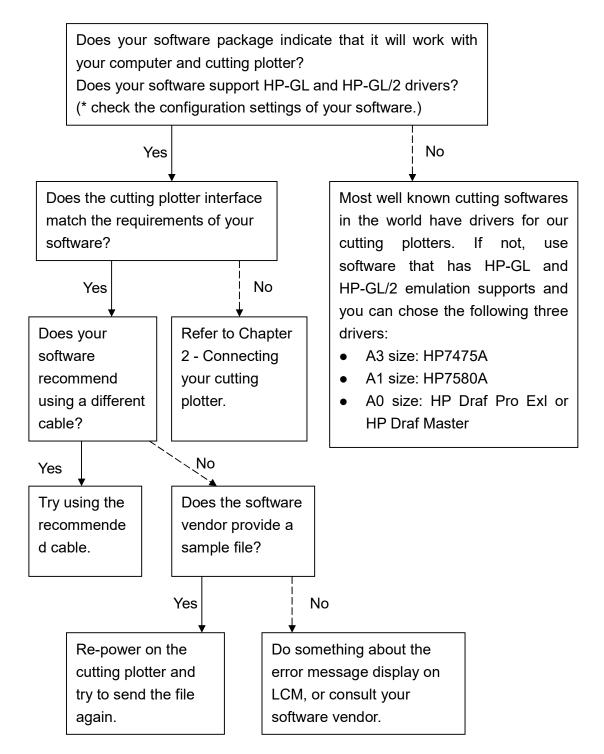
HP-GL/2 Cmd. Error

If your cutting plotter can not recognize the HP-GL/2 or HP-GL commands, please check the HP-GL/2 or HP-GL commands applied to your cutting plotter are used properly.



## 7.4 Software Problems

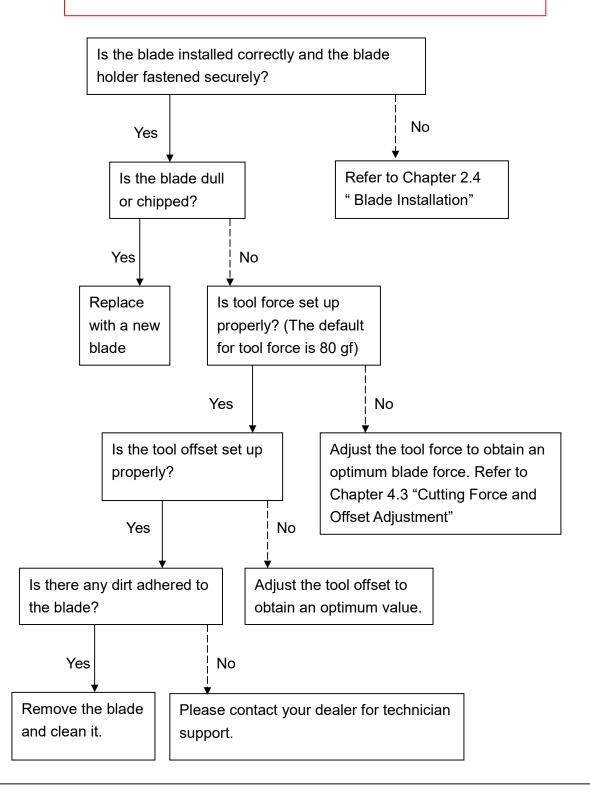
#### Check the following first:





# 7.5 Cutting Quality Problems

**Note:** The daily maintenance of your cutting plotter is very important. Be sure to clean up the grid drum and pinch rollers regularly for better cutting accuracy and output quality.





# **RX II series Specification**

	- 						
Model Number	RX II-61	RX II-101S	RX II-132S	RX II-183S			
Operational Method		Roller-T	ype	1			
Max. Cutting Width	610mm (24in)	1010mm (40in)	1320mm (52in)	1830mm(72in)			
Max. Cutting Length		50m (16	4ft)				
Max. Media Loading Width	810mm(31.88in)	1326mm(52.2")	1635mm(64.37")	2145mm(84.44")			
Min. Media Loading Width		50mm (1.	97in)				
Number of Pinch Rollers	2	3	4	6			
Acceptable Material Thickne	ss	0.8mm (0.	03in)				
Drive Motor		DC Servo Control					
Cutting Force		5~600 g					
Max. Cutting Speed		1530 mm/sec (60 ips)	(at 45° direction)				
Acceleration		4.2 G (gra	avity)				
Offset		0~1.0 mm (with an incr	ease of 0.025mm)				
Memory Buffer		16 ME	3				
Interfaces	U	ISB 2.0 (Full Speed), Serial	(RS-232) and Ethernet				
Type of Command		HP-GL, HP	-GL/2				
Mechanical Resolution		0.006 mm					
Software Resolution		0.025 mm					
Distance Accuracy	±	$\pm 0.254$ mm or $\pm 0.1\%$ of move, whichever is greater					
Repeatability	±0.1mm						
Automatic-Aligning System	Completel	Completely Automatic Contour Cutting System for print to cut solution					
Curve & Arc Smoothing		Yes					
Configurable Origin		Yes					
Test Cut capability		Yes					
Tangential mode		Yes					
Over Cut		Yes					
Repeat		Yes					
Сору	Yes						
Pouncing	Yes						
Control Panel	LCD (20 digits x 2 lines), 15 Keys, 1 Power LED, 1 Green 51						
Diameter of Blade	2.5 mm						
Power Supply	100 ~ 240VAC 50/60Hz (auto switching)						
Power Consumption		251.8 watts					
Dimension (HxWxD) mm	437 * 1098 * 479	1147 * 1614 * 651	1147 * 1923 * 651	1147 * 2433 * 756			
(HxWxD) in	17.2 * 43.2 * 18.8	45.2* 63.5 * 23.8	45.2 * 75.7 * 23.8	45.2 * 95.8 * 29.8			
Net Weight	25kg	61.8kg	71.5kg	72kg			
Auto Cut Off		Standa		. *			
Max. Cut Off Width	696mm	1107mm	1417mm	1927mm			
Stand	Optional		Standard	L			
Media Basket		Option					
Operation Temperature		15°C~30°C / 6					
Environment Humidity		25% ~ 7					



- Compatible with Windows 7 and above & MAC OS X 10.6 and above.
- The specification and data sheet may vary with different materials used. In order to obtain the best output quality, please maintain the machine regularly and properly.
- GCC reserves the right to change the specifications at any time without notice.
- GCC certified material in tracking is Avery MPI 3000.
- The above listed specification values are effective only when operated with media certified by GCC.



# **Blade Specification**

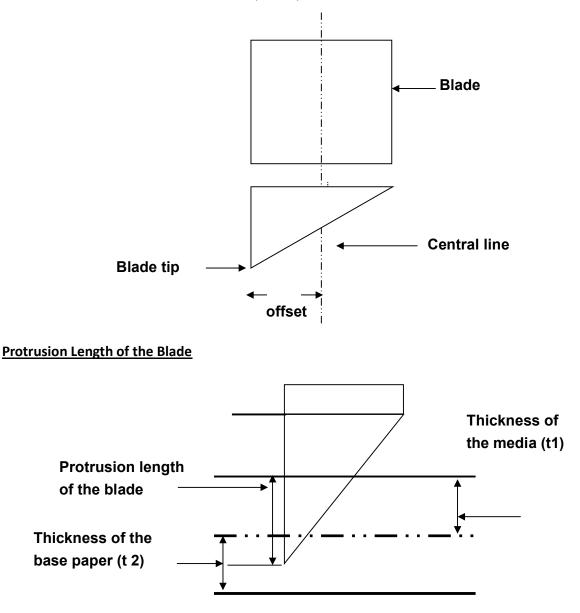
265019700G	For cutting thick fluorescent and window tint film. Also for cutting detailed work in standard vinyl.
262019700G	The blade is 45° with <b>Red Cap</b> , 0.25 mm blade offset, and 2.5 mm blade diameter.
2650175400	For cutting reflective vinyl, cardboard, sandblast, flock, and stencil sharp edge.
265017540G	The blade is 60° with <b>Green Cap</b> , 0.50 mm blade offset, and 2.5 mm blade diameter.
265017550G	For cutting thin sandblast mask and stencil. The blade with sharp angle and special design, allowing it to maneuver around sharp corners.
	The blade is 60° with <b>Blue Cap</b> , 0.25 mm blade offset, and 2.5 mm blade diameter.
265017560G	For cutting small text and fine detail. Sharp blade with smallest offset.
2030173003	The blade is 50° with <b>Black Cap</b> , 0.175 mm blade offset, and 2.5 mm blade diameter.
265017530G	For thin and delicate media such as window tint.
2030173300	The blade is 25° with <b>Yellow Cap</b> , 0.25 mm blade offset, and 2.5 mm blade diameter.



# About the Tool

A generic term referring to the blade that cuts the sheet, the pen that does plotting, and the LED bombsight (option) used for pointing to the reference point.

OFFSET is the distance that the blade tip is displaced from the centerline of the blade.



Length of protrusion = t1 + t 2/ 2, but for your convenience you may just make it about 0.3mm  $\sim$  0.5mm beyond the blade holder tip.

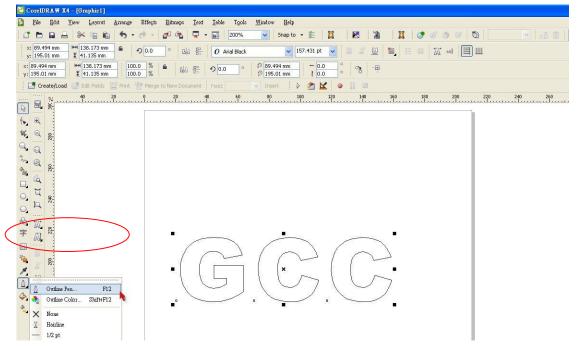


# **CorelDRAW Output Instruction**

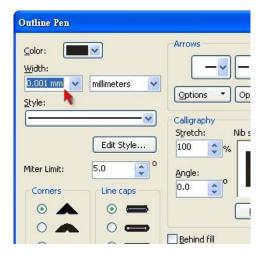
The following is an example of how to output the file with CorelDRAW.

#### **User Instructions**

- 1. Open CorelDRAW, finish editing all the files you wish to plot and select all the images at once.
- 2. Select "Outline Pen" to adjust the outline for cutting.



3. Adjust the value of pen width to 0.001 mm and click "OK" to save your input.





4. Select "File  $\rightarrow$  Print" to output the file to your cutters.

File	-	ects <u>B</u> itmaps <u>Iext</u> <u>Iable Tools Window H</u> elp	
	New Ctrl+N	👻 🚰 🛱 🐺 🕶 🖬 100% 💟 Snap to 🔹 🎉 🐹 🞇 📓 📓 💇 🧭 🗇 🧐 🖏	× =
	New From Template Open Ctrl+O	Comment Commentaria Comm	
5	Close Class		
	Close All	<sup>76</sup> M K 2000 ° 2105.0 mm   ← 0.0 ° % = 0 % 148.5 mm   ↑ 0.0 ° % = 0	
	Save Ctrl+S	lerge to New Document 🛛 Field: 🔍 Insert 🔅 🤌 🔛 🕘 📗 📃	
6	Save As Ctrl+Shift+S	0 150 100 50 0 50 100 150 200 250	300
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	Acquire Image		
*	Import Ctrl+I		
1	Export Ctrl+E		
4	Export For Office		
	Sen <u>d</u> To		
<u>_</u>	Print Ctrl+P		
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a	Print Preview		
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	Publish Page <u>T</u> o ConceptShare		
	Publish To The <u>W</u> eb		
	Document Properties		
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Ъ	Exit Alt+F4		
1.4.44			

5. Choose the correct model you have installed.

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Destination			
<u>N</u> ame:	Jaguar IV 183	×	Properties
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Status:	Ready		
Where:	GCCUSB0:		
Comment:			Print to file 🕨
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6. Choose the "Layout page" and click the "Reposition images to:  $\rightarrow$  Bottom left corner". Please note that you must put your image at the bottom left corner.

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nage position and size			
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) Fit to page			
Reposition images to:	Center of page		
Settings for Page 1: <u>Position:</u> Si <u>z</u> e:	Center of page Top center Left center Right center	# of tiles:	
: 35.91 m ▼ ▲ ₩ 138.18 : 169.07 1 ▼ ▲	Top left corner Top right corner		
Print tiled pages Tile overlap: 0.0 mm	Bottom left corner Bottom right corner Custom	Witten	

7. Go back to the General page and check that your image is at the bottom left corner. Click "Print" and get a wonderful cutting image.

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General Layou	It Separations Prepress Misc 🛛	2 No Issues	
Destination			
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Type:	Jaguar IV 183		
Status:	Ready		
Where:	GCCUSB0:		
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O Pages:	1	1 2 2 3 3 Collate	
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# **CorelDRAW Plug-In Instruction**

AASII VBA Installer is applicable for CorelDRAW Version 13, 14, 15, 16, 17, 18

#### **Installation**

Please refer to Step 8 in Chapter 2.7.1.2 Driver Installation to install AAS plug-in for CorelDRAW.

#### Run CorelDRAW AAS Plug-in

Step 1 Run CorelDRAW to edit your graphics and select all images at once when you wish to plot.

Step 2 Select "Tools→Macros→Run Macro." Then select Global Macros (GCCAASII\_Draw13.gms) under the "Macros in" manual, and press "Run".

acro name:		
CCModule.G	CC_AAS_Plug_In	
CCModule.G	CC_AAS_Plug_In	

GCC...

Step 3 Click on "Apply" and select whether you would like to add the registration marks by page size or

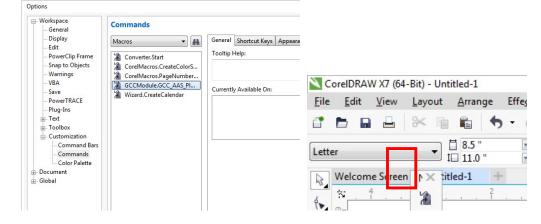
oy object.	AAS II Reg. Mark Setting v2.09-01
	Add Registration Mark by page size
	4-Point Position
	Length         25         mm         (5-50)           Thickness         1         mm         (1-2)           Margin         0         mm         (0-50)
	C Segmental Positioning
	X Step 500 mm (200 - 600) Y Step 500 mm (200 - 600)
	C Multiple Copies
	No. of X Copies         1         (1 - 50)           No. of Y Copies         1         (1 - 50)

Step 4 Now you can print out the image file with registration marks.

**Note:** "Add Registration Mark by Object" will be the default selection if you click on the image whereas "Add Registration Mark by page size" will be the default one when the blank area on the page is clicked.

# You can also add a Hot Icon for the AAS Plug-in

Select "Tools  $\rightarrow$  Options  $\rightarrow$  Workspace  $\rightarrow$  Customization  $\rightarrow$  Commands  $\rightarrow$  Macros  $\rightarrow$  GCCMadual.GCC\_AAS\_Plug\_In" and Click OK.



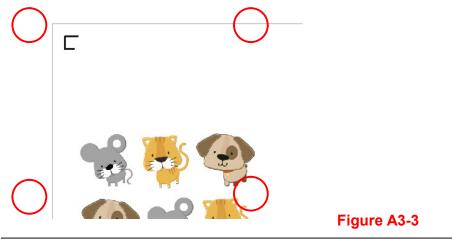


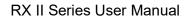
# Add Registration Mark by page size

If you tick "Add Registration Mark by page size" as shown in the figure below and click "Apply", your registration marks will be created automatically (please see Figure A3-1).

Note:	AAS II Reg. Mark Setting v1.02-01
<ol> <li>The length setting will be in the range of 5-25mm according to your page size.</li> </ol>	Add Registration Mark by page size
2. Please <b>DO NOT</b> make any changes to the "Origin" section when you choose to add registration marks by page size as indicated below otherwise the position of the marks will be changed (please see Figure A3-2).	C 4-Point Position Length 11 mm Thickness 1 mm
Options         Sape         VBA         Save         PowerTRACE         Plug-Ins         Toolbox         Customization         Commands         Color Palette         Vertical:         inches	Margin 0 mm Segmental Positioning X Step 300 mm Y Step 300 mm Multiple Copies No. of X Copies 1 No. of Y Copies 1
General     Page Size     Layout     Label     Background     Guidelines     Vertical:     0.0     inches     inches     Vertical:     0.0     inches     Vertical:     0.0     inches	Figure A3-1 gure A3-2

The system will create the 4 marks on the 4 corners of the page as shown in the picture below wherever you move your image.







#### Workable area

It allows users to edit and cut graphics in the area outside the registration marks when adding registration marks by page.

For A4 size media sheet, the workable area is 2.5mm extended from the registration mark on left and right sides and 4.5mm extended from the registration mark on top side. On the bottom side, it is suggested to leave at least 25mm margin from the edge of media sheet to prevent sheets dropping or any error occurred while media sizing.

For A3 size media sheet, the workable area is 10mm extended from the registration mark on the left side, 9mm extended from the registration mark on the right side and 11mm extended from the registration mark on top side. On the bottom side, it is suggested to leave at least 25mm margin from the edge of media sheet to prevent sheets dropping or any error occurred while media sizing.

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**Note:** Select "**Edge**" mode when media sizing to allow the media sheet to be unrolled. If you select "**Single**" mode, the media sheet will not be able to be moved back and hence fail to be detected by front paper sensor.



GCC

If you tick "Add Registration Mark by Object", you will be offered three options of registration marks as shown below. 4-Point Positioning

		Length: The length of marks
AAS	S II Reg. Mark Setting v1.02-01	→ Range: 5mm~50mm
		→ Optimized Setting: 25mm
	Add Registration Mark by page size	• Thickness: The line thickness of marks
	Add Registration Mark by Object	→ Range: 1mm~2mm
	4-Point Position	→ Optimized Setting: 1mm
		• Margin: The distance between marks and images
	Length 25 mm	→ Range: 0mm~50mm
	Thickness 1 mm	→ Optimized Setting: 5mm
	Margin 0 mm	
	Segmental Positioning	Segmental Positioning
		• X Step: The distance of intermediate position on the X axis
	X Step 500 mm	• Y Step: The distance of intermediate position on the Y axis
	Y Step 500 mm	→ Range: 200mm~600mm
	. <u>j 300 mm</u>	→ Optimized Setting: Less than 500mm
	C Multiple Copies	
	No. of X Copies	Multiple Copies
		• No. of X Copies: The numbers of copies on X axis
	No. of Y Copies 1	• No. of Y Copies: The numbers of copies on Y axis
	Figure A3-4	ightarrow Range: 1~50. (The more copies you make, the more time
		is needed for data transmission.)

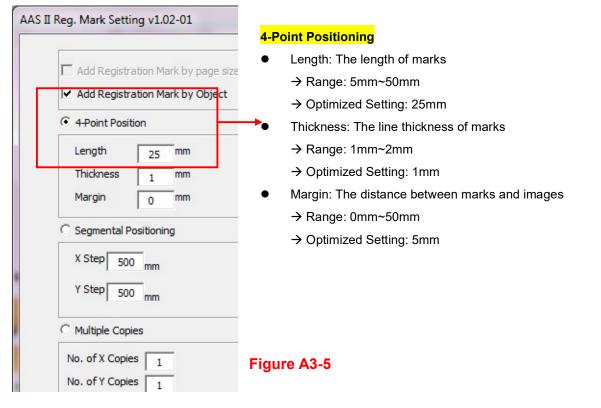
→ Numbers of X Copies \* Numbers of Y Copies = The total amount of image copies

• Copies with outline: To show outlines of image graphics

**Note:** The values entered in the "4-Point Positioning" section (length, thickness and margin) will still be applied when you tick "Segmental Positioning" or "Multiple Copies".



#### 4-Point Positioning



The system will create the 4 marks as shown in the picture below.

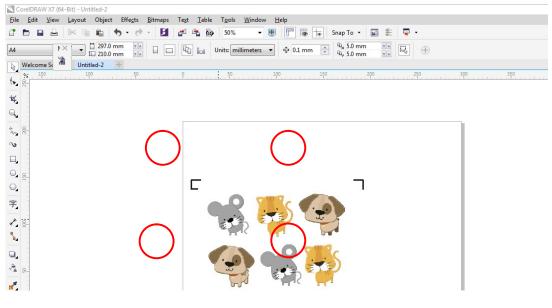
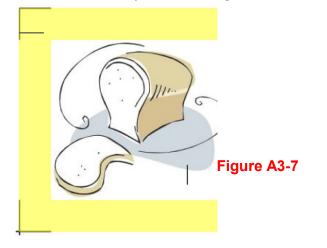


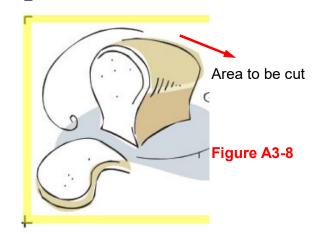
Figure A3-6



#### Note:

 To save your materials, in addition to amending object margins, you can also adjust the length of the registration marks (5mm minimum) when you apply 4-Point Positioning (see table 1 for suggestions based on different material sizes). The smaller the size is, the smaller the distance between the object and the registration marks is (see the figures below).





Page size	Suggested mark length
(unit: mm)	(unit: mm)
A6 (105 x 148)	5
A5 (148 × 210)	8
A4 (210 × 297)	11
A3 (297 × 420)	16
A2 (420 × 594)	23
A1 (594 × 841) and above	25*

#### Table 1

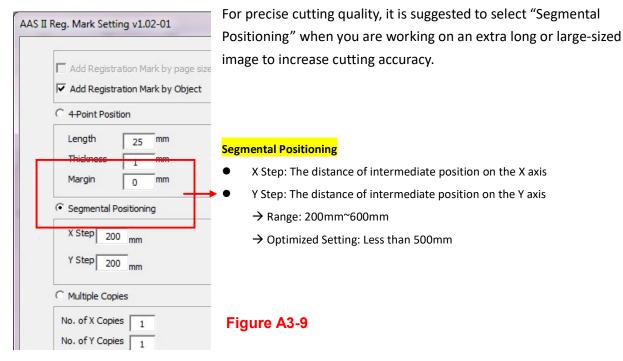
\*25mm is the suggested value for the registration mark length

2. The size of the registration marks would affect the accuracy of registration mark detection so please make sure the amount you enter is reasonable.

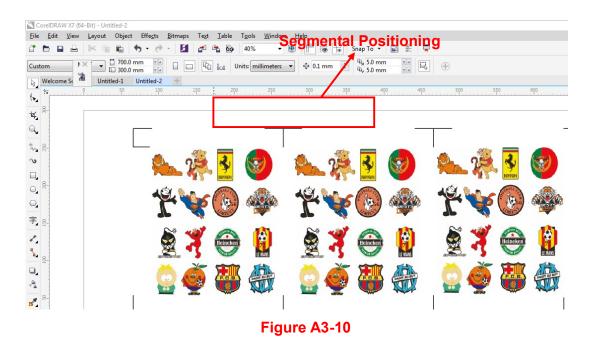
3. If you change the paper size, you will have to reset the registration marks otherwise the previous setting will be applied.



#### Segmental Positioning



The system will create the as shown in the picture below

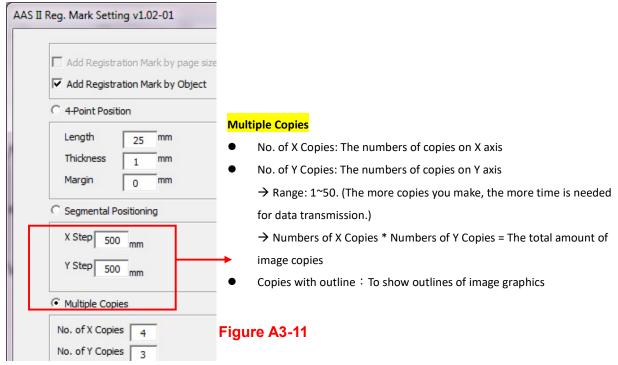


Segmental Positioning will be applied to Multiple Copies when the object to be copied is of large size (with the length or width over 200mm) to increase the accuracy of registration mark detection.



#### **Multiple Copies**

It is suggested to select "Multiple Copies" when you would like to make several copies of one image on your material to increase cutting accuracy.



The system will create the as shown in the picture below.

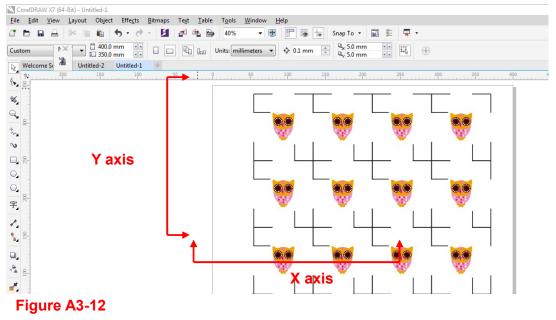




Figure A3-13

#### Contour cutting through CorelDraw

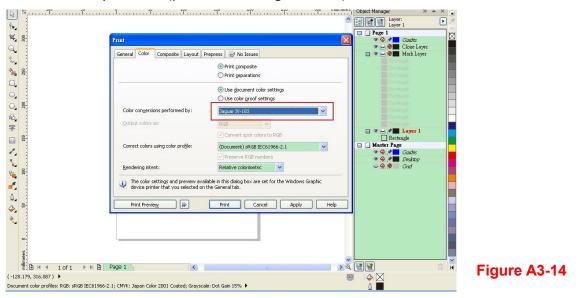
Step 1 Position the paper with registration marks printed by your printer on the GCC cutter.

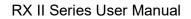
## Step 2 Select "Files→Print".

N C	oreIDRAW X7 (64-Bit) - Untitled-4			
<u>F</u> ile	<u>E</u> dit <u>V</u> iew <u>Layout</u> Object	Effects	<u>B</u> itmaps Te <u>x</u> t <u>T</u> able T <u>o</u> ols <u>W</u> indow <u>H</u> elp	
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6	New from Template	+0 .	Units: millimeters V 🌵 0.1 mm 🌩	4¼ 5.0 mm ⊻n ¥4, 5.0 mm ⊻n ₩4
Þ	Open Ctrl	+0	Units: millimeters • 0.1 mm	42,50 mm ≤A ⊑ ⊕
	Open <u>R</u> ecent	ed-2	Untitled-3 Untitled-4 +	Te
5	Close		100 200 300 400	
•	Close All			^ _ ×
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	Save As Ctrl+Shift	+S		
4	Save as Template			
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	Publish Page to ConceptShare			T.
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57	Document Properties			

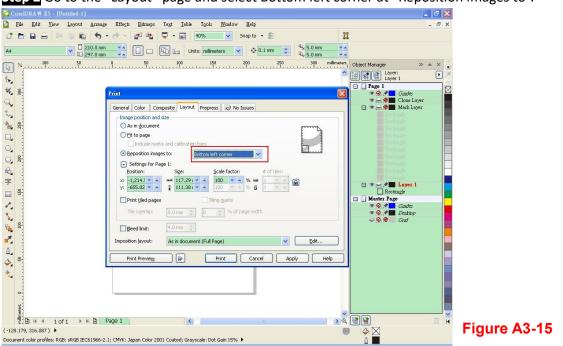
Note: if you use CorelDraw X5 and later, you must follow the steps below.

**Step 1** Click the "color" page and go to the "Color conversions performed by:" and then select the model name of you cutter (please refer to Figure A3-14).









Step 2 Go to the "Layout" page and select Bottom left corner at "Reposition images to".

Step 3 Click "Print".



# **Illustrator Plug-In Instruction**

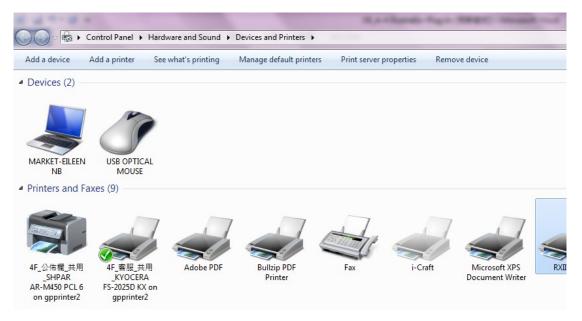
AASII VBA Installer is applicable for Adobe Illustrator Version CS4, CS5, CS6, CC.

#### **Installation**

Please refer to Step 8 in Chapter 2.7.1.2 Driver Installation to install AAS plug-in for Adobe Illustrator.

## **Printer Setting**

**Step 1** Go to Control Panel, right click on the printer and select Printer Properties to open the Printer Properties page





Step 2 Go to the Advanced page and make sure the "Enable advanced printing features" box is unchecked.

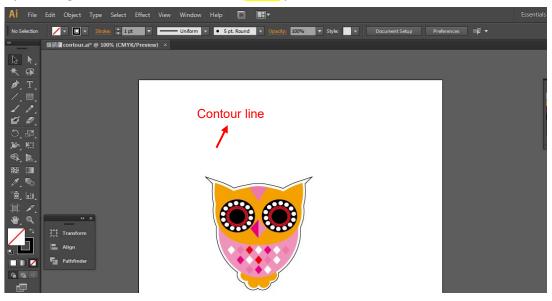
	Pen		Paper		AAS Ir		
General	Sharing	Ports	Advanced	Management Sec			
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<ul> <li>State</li> <li>Print of</li> <li>Hold r</li> <li>Print s</li> </ul>	art printing a art printing i lirectly to th mismatched	after last p immediate e printer documen uments fir	age is spooled ly ts	; printing	ı faster		
<ul> <li>State</li> <li>Print of</li> <li>Hold r</li> <li>Print s</li> <li>Keep p</li> </ul>	art printing a art printing i lirectly to th mismatched pooled doc	after last p immediate e printer documen uments firs uments	age is spooled ly ts st	printing	ı faster		



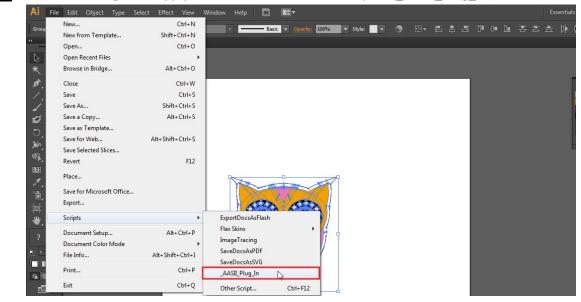
#### **User Instructions**

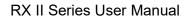


Step 2 Edit your image and create a contour line (Note: you must have the line width set as 0.001mm).



Step 3 Click on the image and apply the AAS function (File  $\rightarrow$  Scripts  $\rightarrow$  \_AASII\_Plug\_In).







# Step 4 Select the registration marks needed

W		10 -	08 A-4 Illustrat	tor Plua-In [相容	模式] - Microsoft W	ord	8月1月		-		-		
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**Step 5** Three types of registration marks are introduced here: 4-Point Positioning, Segmental Positioning and Multiple Copies.

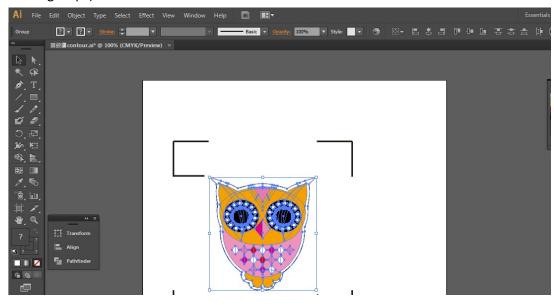
AASII_Reg_Mark_Setting Prog v2.10-01								
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✓ 4 Point Poisitioning ↓								
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Thickness(mm):	1	(1~2)						
Margin(mm):	0	<u>(0~:50)</u>						
Segmental Poisiti	Segmental Poisitioning							
X Step(mm):	500	(200600)						
Y Step(mm):	500	(200~600)						
Multiple Copies 🕽								
No. of X Copies:	1	(1~50)						
No. of Y Copies:	1	(1~50)						

#### Note:

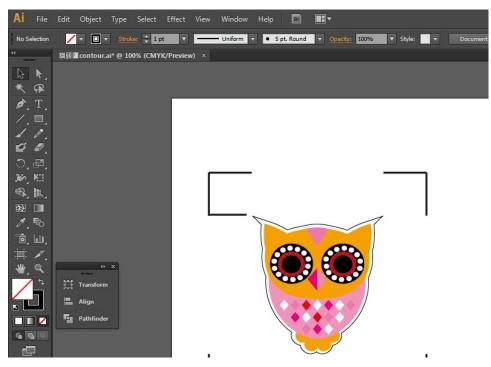
The values entered in the "4-Point Positioning" section (length, thickness and margin) will still be applied when you tick "Segmental Positioning" or "Multiple Copies."



Step 6 Confirm the registration marks (the 4-Point Position mark is used as an illustration in the following steps).



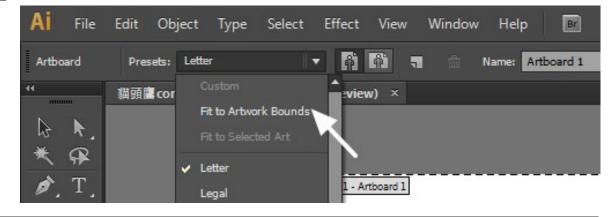
Step 7 Click on the blank area on the page and then click "Document Setup".





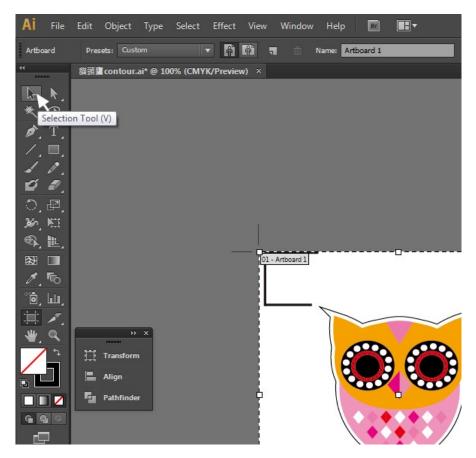
Step 8 Hit "Edit Artboards".
Document Setup
Bleed and View Options
Units: Points 👻 Edit A
TopBottomLeftRightBleed:0 pt0 pt0 pt0 pt
Show Images In Outline Mode
Highlight Substituted Fonts
Highlight Substituted Glyphs
Transparency
Grid Size: Medium 👻
Grid Colors: 🗱 Light 🔻
Simulate Colored Paper
Preset: [Medium Resolutio 🔻 Custom
Type Options
✓ Use Typographer's Quotes
Language: English: USA 🔹
Single Quotes.
Size Position Superscript: 58.3 % 33.3 %
Subscript: 58.3 % 33.3 %

Step 9 Click on "Presets  $\rightarrow$  Fit Artboard to Artwork bounds".

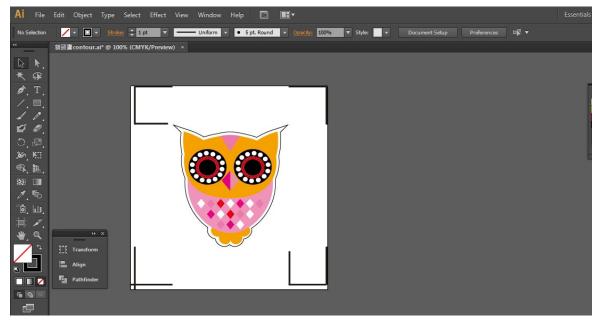


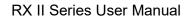


**Step 10** Please move your mouse to the tool bar on the left when step 9 is finished and then click "Selection Tool".



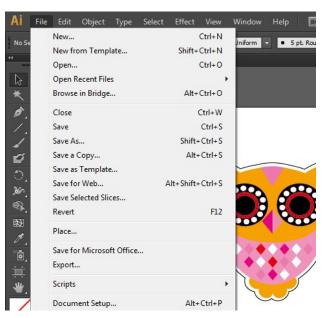
Step 11 This will take you back to the edit mode.





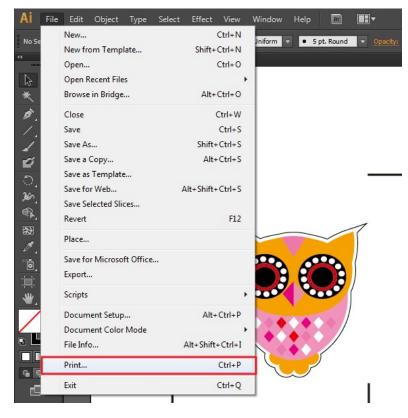


Step 12 Print out the file with the contour line and the registration marks.



Step 13 Place the printed file on the cutter, lower the pinch rollers and then position the carriage at the origin of the registration marks.

Step 14 Send the file to the cutter.





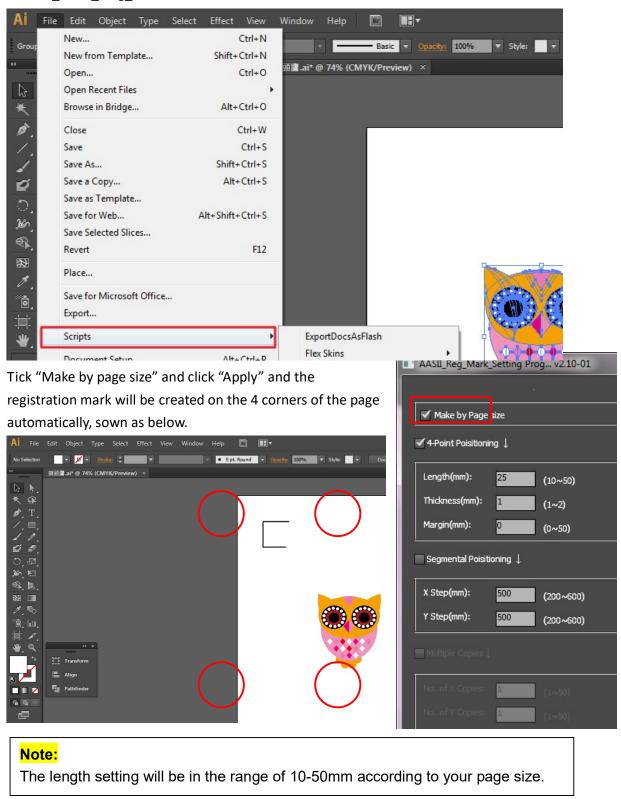
<b>ep 15</b> Sele	ct the cutter model, position	the object in th	e bottom left corner.
Pri	nt		
		Print Preset: Printer: PPD:	RXII-132S
	General	General	
	Marks and Bleed Output Graphics	Copies: Artboards:	
	Color Management Advanced Summary		○ Range: Skip Blank Artb
			Defined by Driver
			Auto-Rotate
			Transverse
	X	Options	
		Print Layers:	Visible & Printable Layers 🛛 🔻
			X: 0 pt Y: 2899.84 p
	I< < 1 of 1 → >I		Do Not Scale • Over
			Scale: W: 100 0

Step 16 Your job is now completed.



## Add Registration Mark by page size

If you want to create registration mark by page size, select the object, go to "Scripts" under "File" and select "\_AASII\_Plug\_In"





#### Workable area

It allows users to edit and cut graphics in the area outside the registration marks when adding registration marks by page.

For A4 size media sheet, the workable area is 2.5mm extended from the registration mark on left and right sides and 4.5mm extended from the registration mark on top side. On the bottom side, it is suggested to leave at least 25mm margin from the edge of media sheet to prevent sheets dropping or any error occurred while media sizing.

For A3 size media sheet, the workable area is 10mm extended from the registration mark on the left side, 9mm extended from the registration mark on the right side and 11mm extended from the registration mark on top side. On the bottom side, it is suggested to leave at least 25mm margin from the edge of media sheet to prevent sheets dropping or any error occurred while media sizing.

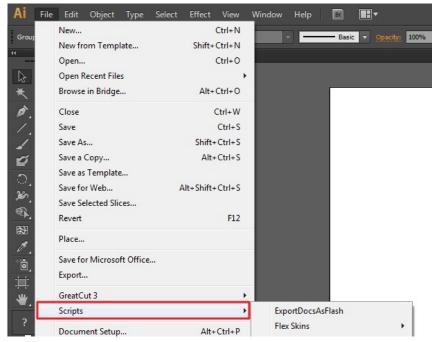
Print	
	PPD:
General Marks and Bleed Output Graphics Color Management Advanced Summary	General         Copies:       1       Collate       Reverse Order
Left side Top side Bottom side	Options         Y:         □ pt           Placement:         算號         X:         □ pt         Y:         □ pt           ③ Do Not Scale         ●
I I of 1 (1)	Tile Range:         Print Layers:         Visible & Printable Layers         Print         Cancel         Doge

**Note:** Select "**Edge**" mode when media sizing to allow the media sheet to be unrolled. If you select "**Single**" mode, the media sheet will not be able to be moved back and hence fail to be detected by front paper sensor.

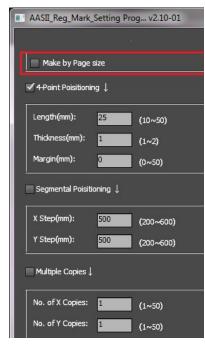
## Add Registration Mark by Object

If you add registration mark by Object, you will be offered three options of registration marks.

Firstly, select the graphic which you want to add registration mark on and go to "Scripts" under "File" and select "\_AASII\_Plug\_In".



Make sure to untick "Make by page size" and choose one of the registration mark types whichever is suitable.



# Three types of registration marks

# 4-Point Positioning

AASII_Reg_Mark_Setting Prog v2.10-01	
-	
	4-Point Positioning
	<ul> <li>Length: The length of marks</li> </ul>
✓ 4-Point Poisitioning ↓	→ Arange: 5mm~50mm
	→ Optimized Setting: 25mm
Length(mm): <b>25</b> (10 ~50)	• Thickness: The line thickness of marks
Thickness(mm):	→ Range: 1mm~2mm
Margin(mm): 0 (0~50)	→ Optimized Setting: 1mm
Margin(mm): (0~50)	<ul> <li>Margin: The distance between marks and</li> </ul>
Segmental Poisitioning ↓	images
	→ Range: 0mm~50mm
X Step(mm): 500 (200~600)	→ Optimized Setting: 5mm
Y Step(mm): 500 (200~600)	
Multiple Copies J	
No. of X Copies: 1 (1~50)	
No. of Y Copies: (1~50)	

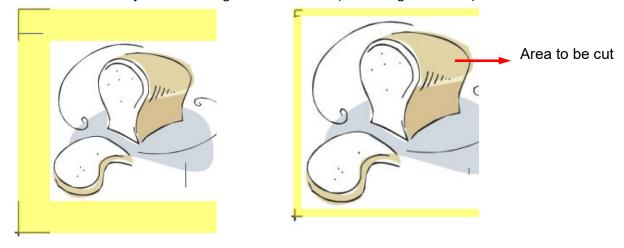
The system will create the 4 marks as shown in the picture below.

AI File	Edit Object Type Select Effect View Window Help 🔲 📑 🖬	Essentials
No Selection	🔻 💋 🔻 Stroke:	
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	Pathfinder	
600		



## Note:

 To save your materials, in addition to amending object margins, you can also adjust the length of the registration marks (5mm minimum) when you apply 4-Point Positioning (see table 1 for suggestions based on different material sizes). The smaller the size is, the smaller the distance between the object and the registration marks is (see the figures below).



Page size	Suggested mark length
(unit: mm)	(unit: mm)
A6 (105 x 148)	5
A5 (148 × 210)	8
A4 (210 × 297)	11
A3 (297 × 420)	16
A2 (420 × 594)	23
A1 (594 × 841) and above	25*

Table 1

\*25mm is the suggested value for the registration mark length

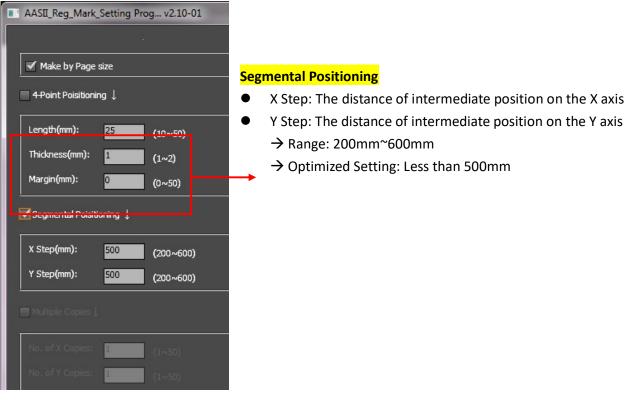
2. The size of the registration marks would affect the accuracy of registration mark detection so please make sure the amount you enter is reasonable.

3. If you change the paper size, you will have to reset the registration marks otherwise the previous setting will be applied.



#### Segmental Positioning

For precise cutting quality, it is suggested to select "Segmental Positioning" when you are working on an extra long or large-sized image to increase cutting accuracy.



The system will create the marks as shown in the picture below.

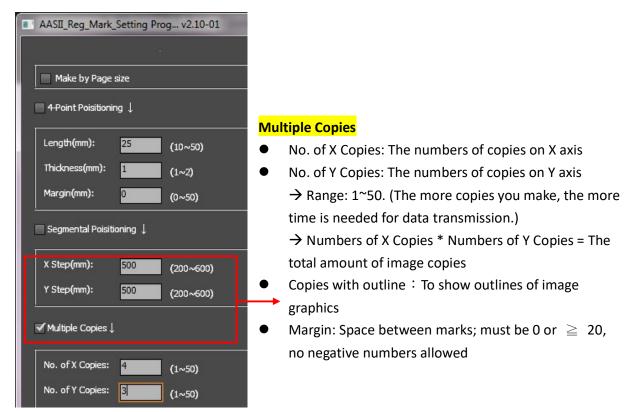
## Segmental Positioning



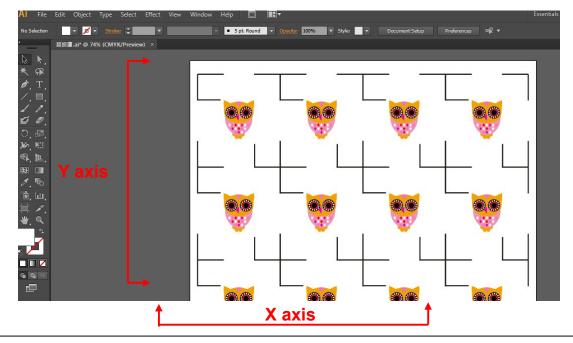


## **Multiple Copies**

It is suggested to select "Multiple Copies" when you would like to make several copies of one image on your material to increase cutting accuracy.



The system will create the as shown in the picture below.



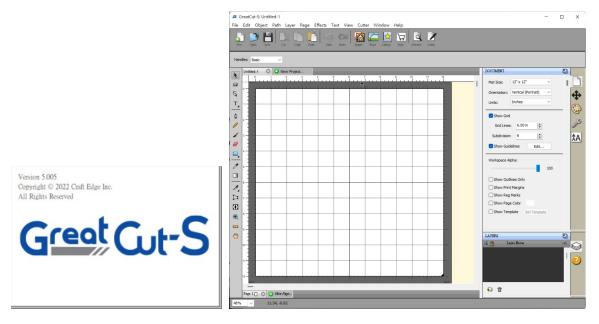


# **GreatCut-S**

There are basic instructions of GreatCut-S below. If you need detailed instruction, please refer to GreatCut-S Help.

#### A. Select the cutter you want to output and change the work area.

1. Run GreatCut-S software.



2. Select "Cutter" and select "Manage Cutters" under My Cutter to change the work area.

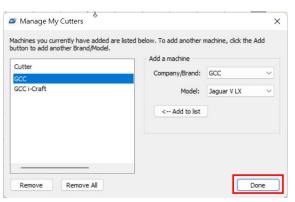
GreatCut-S: Untitled-1						-		×
File Edit Object Path Layer Page Effects Text View Cu New Open Save Cit Cit City Pase Usado Redo Handles: Basic Untitled-1 Untitled-1 New Project	Mat Size Mat Orientation Preview Cut with GCC Cutter Settings.	> Ctrl+Shift+P						
Outline         Image: Constraint of the state of t	Tablet Connection		Manage Cutt GCC GCC i-Craft	Units:	12" x 12" Vertical (Portrait) Inches	> > >		
		- 1		Charles Col			_	G



3. Select company / brand as GCC and select model you want to output and then click the "<--Add to list" button.

			-				
Manage My Cutters		×	🖉 Manage N	ly Cutters			
Machines you currently have added are listed button to add another Brand/Model. Cutter	Add a machine		button to add a	urrently have added nother Brand/Model	are listed below. To add another Add a machine	machine, dick the A	Add
GCC	Company/Brand:	<unspecified> \vee <unspecified></unspecified></unspecified>	Cutter		Company/Brand:	GCC	~
GCC i-Craft	Model:	GCC GCC i-Craft GCC RXII GCC RXII-CR	GCC GCC i-Craft		Model:	AR24 AR24	~
Remove Remove All		Done			< Add to list	-	
L			Remove	Remove All		Jaguar II Jaguar III Jaguar IV	
						Jaguar V Jaguar V LX	N
						Puma III Puma III DX Puma IV Puma IV LX RX Sable	45

4. Select GCC on the left and click "Done."



5. If you want to change the material size and orientation, you can fill a proper value in the Document window.

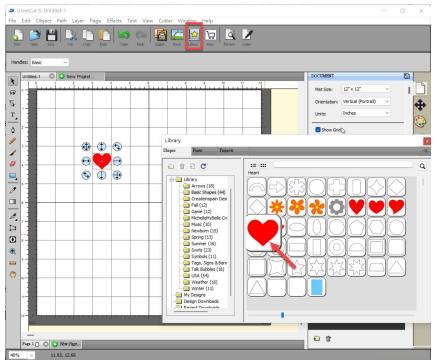
Mat Size:	12" x 12"	~	
Orientation:	Vertical (Portrait)	$\sim$	
Units:	Inches	$\sim$	
Grid Lines	6.00 in		
Subdivision	: 6		
Subdivision			





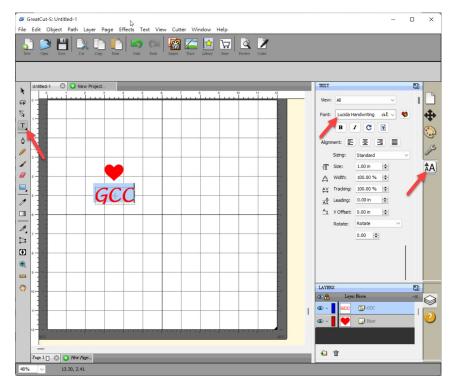
## B. Insert Graphics from Library

Select graphics from library to insert a selected design.



## C. Draw Text

Click on the T icon at left side to create the text and select the font you like at text window.





## D. Import Design

If you have created your design in other design software, go to "import" or "place image" under file to import it, GreatCut-S supports svg, scut, scal, pdf, ai. wpc eps, bmp, gif, jpg and png files.

Edit Object Path La	iyer Page Effects	Text View
New Project	Ctrl+N	
Open Project	Ctrl+O	ndo Redo
Close Project	Ctrl+W	1000
Close All Projects	Ctrl+Shift+W	
Save Project	Ctrl+S	_
Save Project As	Ctrl+Shift+S	5 6
Revert		
Import	Ctrl+Shift+I	
Export	Ctrl+Shift+E	
Trace Image	Ctrl+Shift+T	
Place Image		
Scan2Cut		
Send to	>	
Share and Get Shapes	>	
Print Setup		
Print		
Recent Projects	>	
Exit		_

#### Tips Thousands of SVG files available on SVGCuts!

 <u>http://SVGCuts.com</u> is the top of source for designer SVG files. Thousands of high quality elements including: shapes for card-making, scrapbooking, as well as gift bags, boxes and 3D flowers.

#### E. Convert Image to Cutting File

1. Go to Trace Image under File, or select Trace Image icon on the toolbar to open the setting window.

ile	Edit Object Path La		ts_Te	ext Vi	ew Cutt	er Wi	ndow H	lelp			
	New Project	Ctrl+N							a	7	
	Open Project	Ctrl+O	-)	Redo	Import	Trace	Library	Same	Preview	Cuter	
	Close Project	Ctrl+W		1000	ampere	Inter	Anton y	onec	110.12.1	Cont	
	Close All Projects	Ctrl+Shift+W									
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	Save Project As	Ctrl+Shift+S	5		8 7		8	9	0	11 12	
	Revert				h						
	Import	Ctrl+Shift+I	-							-	L
	Export	Ctrl+Shift+E									
C	Trace Image	Ctrl+Shift+T								-	L
	Place Image			-							
	Scan2Cut									-	
	Send to	>	-							- 1	
	Share and Get Shapes	>								-	L
	Print Setup										
	Print									-	
	Recent Projects	>									



2. Click on "Choose an image" to input the image, adjust Image Settings and Output Settings, and click OK. Then the outline of the image will be outputted automatically.

nput		Output
Choo Cat_gir	se an image 'l_kids_cartoon.jpg < 1118)	Show Nodes Nodes: Show Source Image:
age Settings Iode: Monochrome ontrast (0-100):	 	
Dutput Settings		
Dutput Settings Smooth (0-100):	80	
	80 🚖 98 🚖	

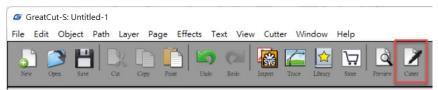
## <mark>Note</mark>

✓ The contrast and pixels of import images will affect the trace image result. High contract graphics are recommended.



#### F. Cut the Design

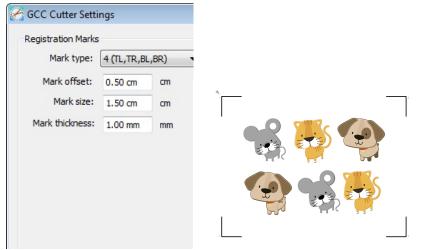
1. Click on the "Cutter" button on the toolbar and Cut Settings window will pop up.



2. Click on "Settings..." to open GCC Cutter Settings window.

neral Layers Cut By Color			
GCC		0 1 2 3 4 5 6 7 8 9 10 11 12	
Model: Jaguar V LX	✓ Settings	1-	
Connection: USB	✓ \	2 - 3 -	
Port: <auto detect=""></auto>	C Test Connection	4 - 5 -	
Cut Settings		6 -	
Cut Mode: WYSIWYG V	Cut selection only	7 - 8 -	
Use Software Speed and Force	Mirror H Mirror V	9- GCC	
		10 -	
		12 -	
Cut Line Type: Cut	~		
Cut Line Type: Cut	×		
Cut Line Type: Cut	~		
Cut Line Type: Cut	~		

3. Adjust Registration Marks setting under GCC Cutter Settings window if needed.



\*<u>Registration Marks</u>: set the distance between the edge of the material and the registration marks in Mark Offset; set the size of marks in Mark Size; set the line thickness of marks in Mark Thickness.



4. Adjust Blade Offset, Overcut Value, Multi-Cut and Quality under Cut Settings window if needed.

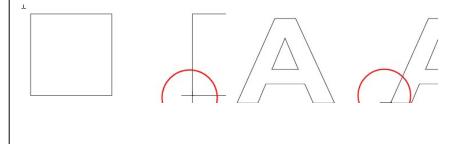
GCC Model: Jagu Connection:	ar V LX	Settings	
	to Detect>	V C Test Connection	3 - 4 - 5 -
Cut Settings Cut Mode: W Use Softwar	re Speed and Force	Cut selection only	
	e: Cut Custom Cut Preset > Regular Blade (0.25 m Cut cut lines	→ + m) → +	
Blade Offset:	0.25 ~	Overcut: 0.0 (None) V	
Multi-Cut:	Off ~	Quality: Small Letter $\sim$	
Force:		▲ 70 g	
Speed:	•	▲ 15 cm/s	

\*<u>Blade Offset</u>: set the offset value according to different blade, for a standard blade, set the offset value at 0.25mm, 0.5mm for an optional advanced blade and 0mm for an optional plotting pen.

\*<u>Quality</u>: associated with the cutting result; please note the better cutting quality, the slower cutting speed.

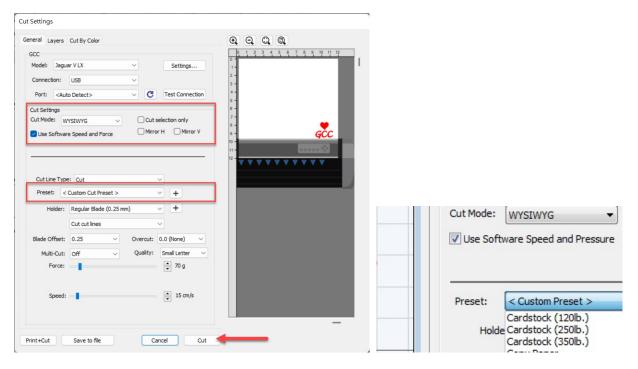
\*<u>Multi-Cut</u>: to repeat the cutting job at same position which is suitable for cutting thick material.

\*<u>Overcut</u>: allows for easier weeding and makes up for incomplete cut lines.





5. Under "Cut Settings" section, there are some useful functions. After setting the parameters, click on "Cut" to send the data to the GCC cutter and the GCC cutter will start the cutting job.



\*<u>Cut Mode</u>: there are "WSIWYG" and "Origin Point" options, WSIWYG means what you see is what you get, the cutter will output the graphic at same position in preview window. While with Origin Point mode, the cutter will cut the graphic from bottom right origin point of the material.

\*<u>Use Software Speed and Pressure</u>: tick this section, and you can set the values of speed and pressure manually.

\*<u>Preset</u>: select a proper material to apply the preset speed and pressure parameter automatically.

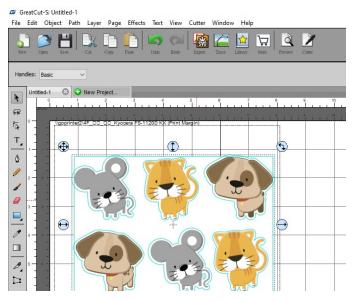
\*Speed & Pressure: you may adjust values of speed and pressure manually to get quality results.



### G. Print and Cut Your Design

The Print and Cut function allows you to print the graphics from GreatCut-S to printer, and then put the printed materials on the GCC cutter to cut out the contour of printed jobs from GreatCut-S.

1. Open an image file in GreatCut-S.

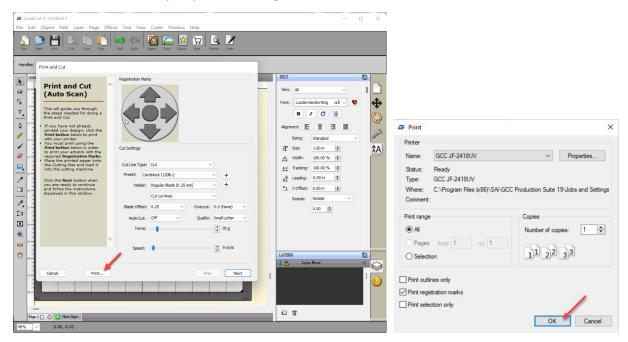


2. Click on the Cutter icon on the toolbar, set the parameters and click on "Print+Cut" to add the registration marks and print out the image.

Cut Settings			
General Layers	Cut By Color		$\Theta$ , $\Theta$ , $\Theta$ , $\Theta$ ,
GCC		ß	0 1 2 3 4 5 6 7 8 9 10 11 12
Model: Jagu	ar V LX	✓ Settings	1-
Connection:	USB	~	2 - 3 -
Port: <aut< td=""><td>to Detect&gt;</td><td>✓ C Test Connection</td><td>4 - 5 -</td></aut<>	to Detect>	✓ C Test Connection	4 - 5 -
Cut Settings			6 -
Cut Mode: W	YSIWYG ~	Cut selection only	7 - 8 -
Use Softwar	e Speed and Force	Mirror H Mirror V	9 -
			10 -
100000000000000000000000000000000000000			
Cut Line Typ		×	
Preset: Ca	ardstock (120lb.)	× +	
Holder:	Regular Blade (0.25 m	m) ~ +	
	Cut cut lines	~	
Blade Offset:	0.25 ~	Overcut: 0.0 (None) V	
Multi-Cut:	Off ~	Quality: Small Letter $\lor$	
Force:	-	▲ 70 g	
Speed:	1	● 9 cm/s	
	·		—
Print+Cut	Save to file	Cancel Cut	



3. Click on "Print..." to open printer setting window and click OK.



4. Print your design with registration marks out.



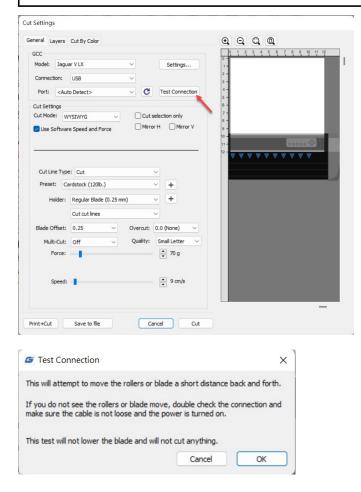
- 5. Load the printed media to the GCC cutter.
- 6. Press "Next" and then press "Scan+Cut", and then the GCC cutter will detect the registration marks and cut the contour lines automatically.

Print and Cut	Print and Cut
Print and Cut (Auto Scan)       Registration Marks         This will guide you through the steps needed for doing a Print and Cut       Reg Marl Reg Marl Reg Marl Reg Marl         If you have not already printed your design, click the Print button below to print with your printer.       If you have not already printed wour design, click the Print button below in order to print your artwork with the required Registration Marks.       If you have not already printed Registration tharks.         Place the printed paper onto the Cutting Mat and load it into the cutting machine.       If Use Software Force & Speed Preset:       If you printer         Click the Next button when you are ready to continue       Pressure:       If you have not already Pressure:       If you have not already Pressure	Scan for Registration Marks Position the Carriage so that it is over the first printed registration mark at the top- left of the design. Click Scan+Cut to start the Auto Scan. We Software Force & Speed Preset: < Custom Preset > Speed: Pressure:



Tips Test Connection function can save your materials.

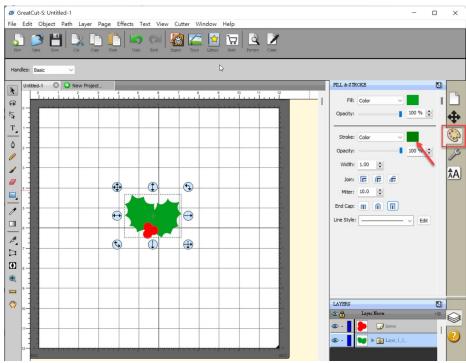
✓ Click on "Test Connection" to exam if set the connection properly.





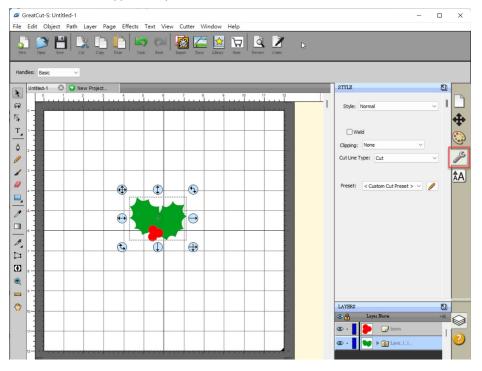
## H. Cut by Color

The Cut by Color function allows you to choose which colors in your design you want to cut, and designate different parameters to each color. You can cut your designs in a single job or separate jobs for each color.



#### 1. Select a design and specify a color for it.

Then define cut type and parameter.





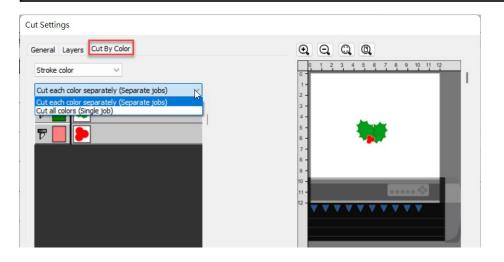
2. Click on "Cut" to open Cut Settings window.

New Open Save Ca	K L K K K K K K K K K K K K K K K K K K	
New         Open         Start         Col           Handles:         Basic         Image: Col         No           Image: Col         Image: Col         No         No           Image: Col	Cut Settings         @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @	

3. Click on the Cut by Color tab and choose to either Cut all Colors in a single job or Cut each color separately as an individual job.

When Cut each color separately is selected, GreatCut-S will prompt you between each color before starting to cut so you can load the appropriate color or corresponding tool into your cutting machine.

Note: If the same tool is being used for all colors in a cutting job, it is suggested to use "Cut all colors (Single job)".





4. Click on the blade icon to choose the colors you want to cut. The preview will display which colors are currently enabled for cutting.

Note: You can adjust the order of the layer arrangement by clicking and dragging the layer.

Cut Settings	
General Layers Cut By Color	
Stroke color 🗸	0 1 2 3 4 5 6 7 8 9 10 11 12
Cut each color separately (Separate jobs) $$	1-2-
	3 - 4 - 5 -
	6 - <b>7</b> - 8 -
Cut Settings	
General Layers Cut By Color	
Stroke color 🗸	0 1 2 3 4 5 6 7 8 9 10 11 12
Cut each color separately (Separate jobs) $\sim$	1-
	3 -
	5 -
	6 - 7 -
	8 - 9 -

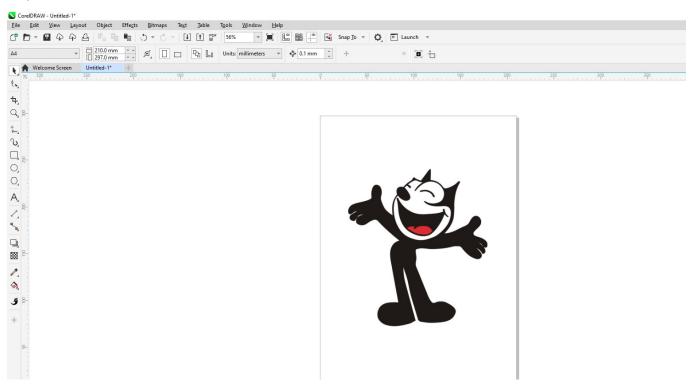
5. Click on "Cut" to start cutting.

GreatCut-S: Untitled-1	X
	elp Tar Care Dervice Care
Handles: Basic  V Cut Settings	b.
United-1 © General Layers Cut By Color	
Print+Cut Save to file Cance	
Page 1         Image: Non-Page           47%         V         7.72, -0.73	



#### I. How to create Registration mark in Greatcut-S for contour cutting

#### Step1 Create a file



#### Step2 Go to Windows →Dockers →GteatCut-S Bridge

e Edit View Layout Object Effects Bitmaps Text ]able Tools D → 🕶 Φ Φ Φ 4 🖓 = 🖶 📲 . → → . → I I T B 56	6 New Window	Snap Io 👻 🗘 🖻 Launch 👻
▼ 210.0 mm ▼ ^ ダ □ □ ₽ŋ [₀] Unit	Close Window Ctrl+W	) + » 🖻 🕂
Welcome Screen         Untilled-1*         +           R         300         200         100         100           8         -         -         -         -         100         100	Close All Cose All C	✓     Properties     Alt+Enter       Øbjects     0       Pages       Comments       Object Styles     Ctrl+F5       Symbolis     Ctrl+F3       ✓     Eind and Replace       Ctrl+F       Export
R-	Color Palettes Welcome Screen Untitled-1*	Transform Alt+F7 Coordinates Live Guides Guidelines
. 8-		Align and Distribute Ctrl-Shift+A Fit Objects to Path Step and Repeat Ctrl-Shift+D
• 8-		Shage Corners Join Curves
		Text Ctrl+T Font Sampler Glyphs Ctrl+F11
<u>8</u> -		Effects
s-		Color ✓ Palettes Cglor Styles Ctrl+F6 Color Proofing
		Assets Tray



Step3 Select the model with AAS function from the model menu in GreatCut-S Bridge.

GreatCut-S Bridg	le	>>
		*≣
Cutter:	GCC	-
Model:	Jaguar V LX	-
200000	Bengal	^
Orientation:	Expert 24	
	Expert 24LX	
	Expert 52	
	Expert 52LX	
Use selection	o Expert II 24	
	C Expert II 24LX	
	Expert II 52	-
	Expert II 52LX	
	Expert PRO	
	Jaguar II	6
	Jaguar III	
Weld	Jaguar IV	
	Jaguar V	
Ver: 5.8	Jaguar V LX	
	Puma III	

Step4 Select Contour Outline, and define the offset value of contour line from the size option in Shadow Layer menu.

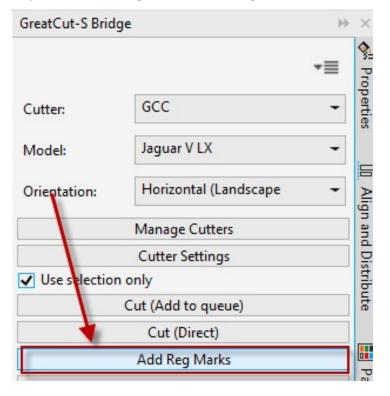
GreatCut-S Brid	ge	₩ >	Shadow Layer	
			Type: Shadow ~	
Cutter:	GCC	-	Size:	0.050
Model:	Jaguar V LX	-	Miter: 1.00	
Orientation:	Horizontal (Landscape		Inset Shadow	
	Manage Cutters		Blackout Shadow	
	Cutter Settings	100		
Use selection	n only	stribu	Image Settings	
	Cut (Add to queue)	ā		128
	Cut (Direct)		Contrast (0-255):	120
	Add Reg Marks			
	Contour Outline	-		



#### Step5 The contour line is created.

S CorelDRAW - Untitled-1*
Eile Edit Yiew Layout Object Effects <u>B</u> itmaps Text Jable T <u>o</u> ols <u>W</u> indow <u>H</u> elp
[ P - 및 수 수 실 🖥 🐂 ( ) - · · · · · · · · · · · · · · · · · ·
Peop X:       104.362 mm       Imm       151.442 mm       100.0 % L       0.00 °       0.567 pt       Imm       Imm       Imm       Imm       169.955 mm       0.00 °       0.567 pt       Imm       Imm
Melcome Screen         Untitled-1*         +           ∞         150         100         50         0         50         100         150         300         350         400         mill
<sup>1</sup> <sup></sup>
++ → · · · · · · · · · · · · · · · · · ·
°с_
A,

### Step6 Select "Add Reg Marks" to add registration marks.

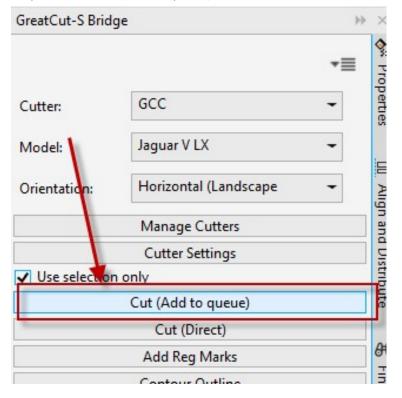




### Step7 The registration marks are added.

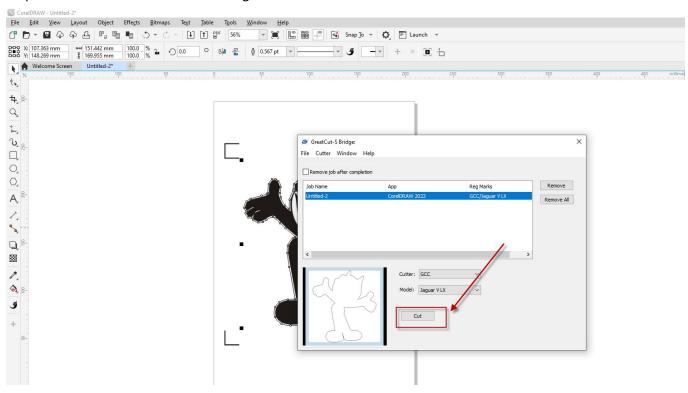
S CorelDRAW - Untitled-2* Eile Edit View Layout Object Effects Bitmaps Text Jable C <sup>™</sup> → C → C → L   P <sub>0</sub> = 1 → C → C → L 1		)  E Launch →
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Welcome Screen Untitled-2* +		
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Step8 Select "Cut (Add to queue)" to send the file.





#### Step9 Clink on "Cut" in GteatCut-S Bridge window.



#### Step10 Define the parameters in Cut Settings window and select "Cut".

#### Cut Settings

	Cut By Color			
СС				0 1 2 3
Model: Jagu	ar V LX	$\sim$	Settings	
Connection:	USB	$\sim$		0 -
Port: <aut< td=""><td>to Detect&gt;</td><td>~ C</td><td>Test Connection</td><td>1 -</td></aut<>	to Detect>	~ C	Test Connection	1 -
ut Settings				2 -
Cut Mode: W	YSIWYG	/ Cut s	election only	3 -
Use Softwar	e Speed and Force	Mirro	r H Mirror V	4-
				5- ~
				6 -
				7 -
Cut Line Typ	e: Cut		~	
	e: Cut gn vinyl		~ <b>+</b>	8 -
		i mm)		
Preset: Si	gn vinyl	i mm)	× +	8-
Preset: Si Holder:	gn vinyl Regular Blade (0.25	5 mm) Overcut:	× +	8 - 9 -
Preset: Si	gn vinyl Regular Blade (0.25 Cut cut lines	Overcut:	<ul> <li>✓ +</li> <li>✓ +</li> <li>✓ +</li> </ul>	8 - 9 -

Step11 The process is complete.