

Puma IV Series User Manual



http://www.GCCworld.com

<u>NOTICE</u>

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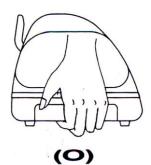
<u>GCC</u>

Important Information

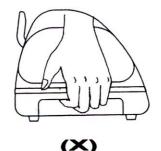
Thanks for your purchase of GCC *Puma IV Series* Cutting Plotter. For your safety and to optimize the performance of the Puma IV, please read the user manual completely and keep it in a correct location.

PRECAUTIONS IN USE

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



hold from the bottom



hold the depression area

- Do not shake or drop the blade holder, a blade tip maybe fly out.
- During operation, keep away from any moving parts of the cutter (such as the carriage, drums). Also be careful that your clothing and hairs do not be caught.
- Always connect the power cable to a grounded outlet.
- Always use the accessory power cable that 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 misoperation of the machine.
- Keep the tools away from children where they can reach.
- Always put the pinch rollers within position of the white marks.

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Puma IV Print Driver setting



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Chapter 1 General Information

1.1 Introduction

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

This manual covers the following models of Puma IV series cutting plotters:

P4-60LX / P4-60	for media width: 70mm (2.76") ~ 719mm (28.3")
P4-132LX / P4-132	for media width: 70mm (2.76") ~ 1470mm (57.87")

1.2 Package Items

The package of the Puma IV model contents the items listed below, please check carefully. If you find any item missing, please consult your local dealer for further assistance.

Stam	dard Item			Quantity
1. Cu	itting Plotter			1
• • • •	and Set (for P4-132LX / P4-132 only, optional for 2 piece of T-shape stand 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	• P4-60LX / P4-	50)	1
3. Fle	exible Media Support System Package	P4-60LX /	P4-132LX /	
		P4-60	P4-132	
_	1 set of Roll Media Flange (2 pieces)	P4-60	P4-132 V	
	1 set of Roll Media Flange (2 pieces) 1 set of Roll Holder (2 pieces)	P4-60		
-		P4-60	V	1
_	1 set of Roll Holder (2 pieces)	P4-60	V	1
	1 set of Roll Holder (2 pieces) 1 set of Roll Holder Guide Bushes (4 pieces)	P4-60	V V V V	1
-	1 set of Roll Holder (2 pieces) 1 set of Roll Holder Guide Bushes (4 pieces) 1 set of Roll Holder Support (2 pieces)	P4-60	V V V V V	1



4.	Accessories	
•	1 piece of AC power Cord	
ullet	1 piece of data cable (USB cable: 3m)	
ullet	1 piece of Ethernet cable	
ullet	1 set of Blade Holder Assembly (Installed in tool carriage of the cutting plotter)	1
ullet	1 piece of Blade (Installed in Blade Holder)	T
ullet	1 piece of Safe Blade	
ullet	1 piece of Cutting Pad	
ullet	1 piece of Tweezers	
•	1 piece of Promise Card	

1.3 Product Features

The following are the main features of the Puma IV LX / Puma IV series cutting plotters:

- Triple-port connectivity provides you with greater flexibility
- Up to 500 gram cutting force
- Up to 1020 mm per second (40.16 ips) cutting speed (at 45° direction)
- Guaranty 5-meter tracking
- User-friendly and multi-language control panel
- Enhanced Automatic-Aligning System for automatic contour cutting

1.4 Appearance of Puma IV

1.4.1 The Front View

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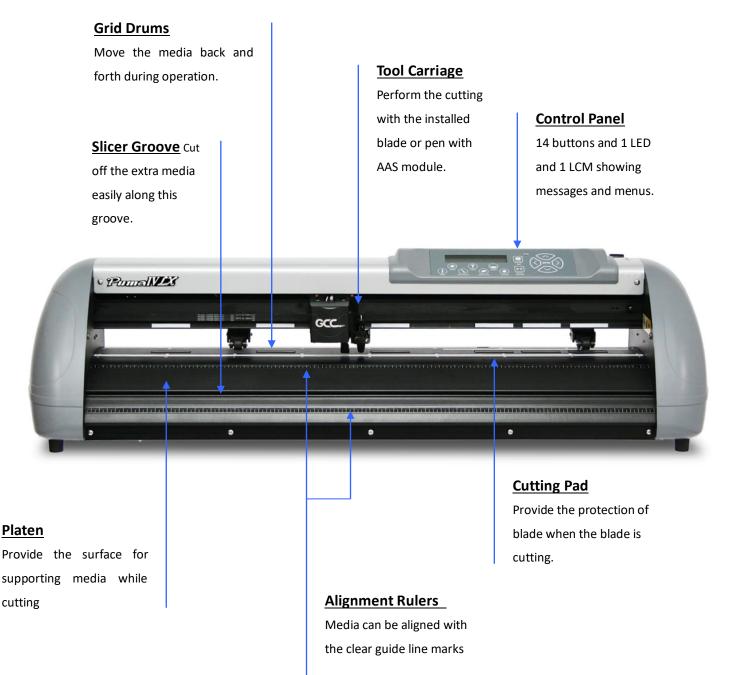


Figure 1-1



Figure 1-2



1.4.3 The Whole View

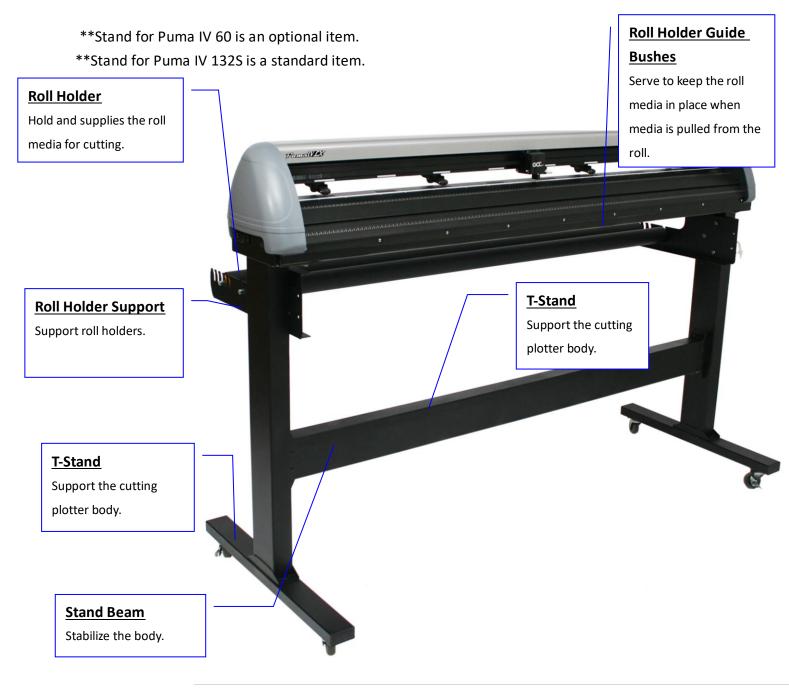


Figure 1-3



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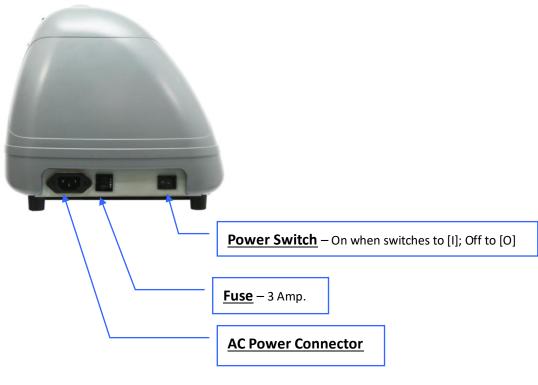
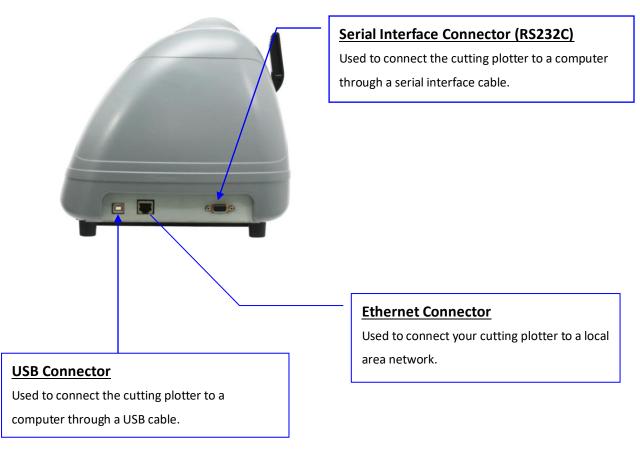


Figure 1-4

1.4.5 The Right-hand Side



Chapter 2 Installation

2.1 Precaution

Notice 1

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

Notice 2 A proper place for installation the cutting plotter

Please select a proper location that meets the following conditions.

- The machine can be approached easily from any direction.
- Keep at least 60 cm space in front and behind the machine.
- Make sure the cutter is placed on a flat, level and sturdy surface
- ✤ The operation temperature should be between 15 and 30 °C (60-86°F) in the workshop.
- Keep the relative humidity between 25% and 75% in the workshop.
- Protecting the machine from dust and air current.
- Preventing the machine from direct sunlight.
- The machine should be installed in a proper place where only well-trained professionals are allowed to operate the machine.
- This product should be installed only in a restricted access location (Professional printing rooms, service closets, etc.)

Notice 3 Connecting the Power Supply

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

- Insert the plug (male) into a grounded power outlet.
 - Note: The equipment power supply cord shall be connected to a socket-outlet with earthing connection.
- 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 P4-132LX / P4-132)

Please follow procedure below to assemble stand and media support system.

Step 1 Please examine supplied items in the accessory box of stand carton before you install:

Stand is a optional item for Puma IV 60 LX / Puma IV 60, Item List:

- 2 piece of T-shape stand
- 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.
- Place the stand beam upright on the T-stand and follow the number **12** to assemble (See Figure 2-1 & 2-2).
- There is hexagon socket head screws fasten on the T-stand on both side taken as locating pins.

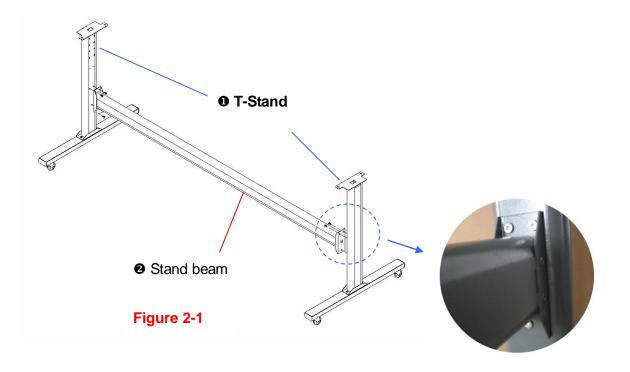
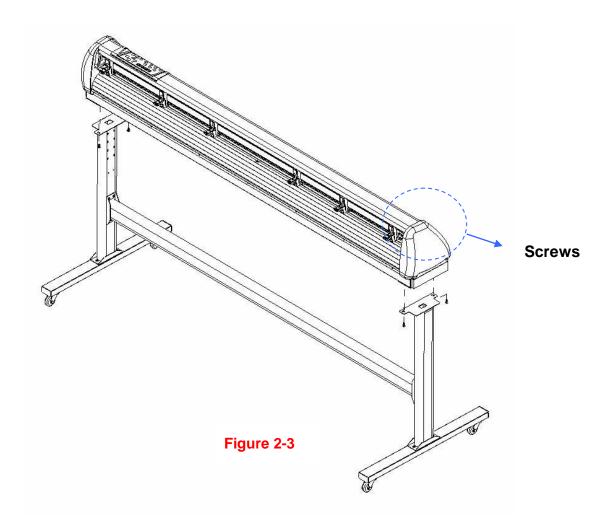


Figure 2-2



Step 3 Position the stand beam perpendicularly to part **1** and put the screws into the holes and tighten them as Figure 2-2. Then the complete picture of stand will be like Figure 2-1.

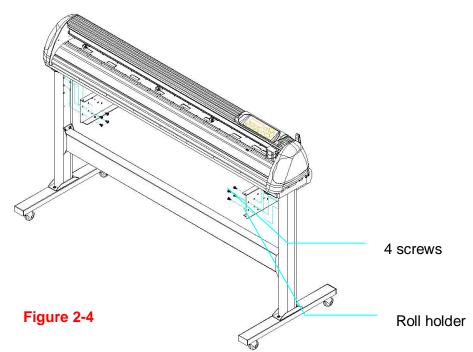
Step 4 Remove the cutting plotter from the carton. Position your stand under the plotter, on the bottom of the plotter, there is one hole on each side in the position corresponding to the locating pins, so the locating pins can be located into the holes. Then insert the screws into the holes on the stand to fix the plotter and tighten them up as shown in Figure 2-3.





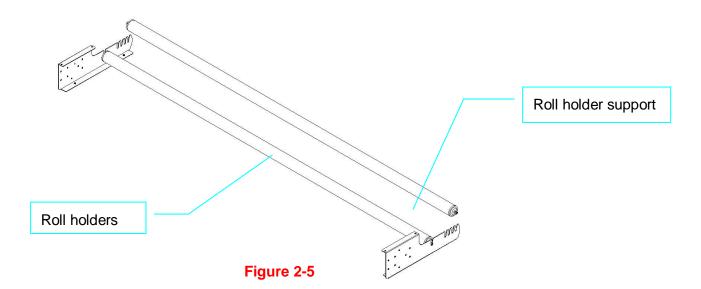
Step 5

Insert the roll holder support with the screws into the holes of the stand, and then tighten them up as shown in Figure 2-4. You could decide roll holder support's position by inserting into different holes.



Step 6

Place two roll holders onto the roll holder support. (Figure 2-5)

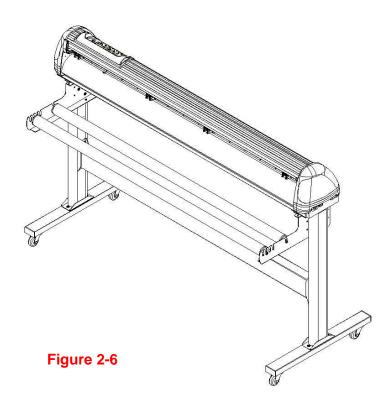






Step 7

Lastly, the complete picture will be shown like below. (Figure 2-6)

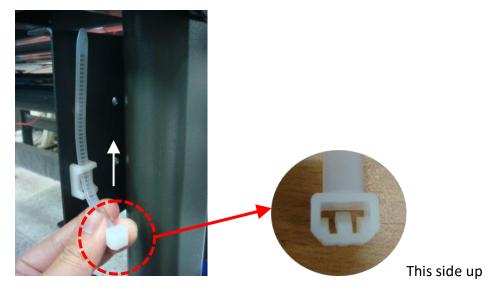




2.3 USB Cable Tie and Saddle

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.

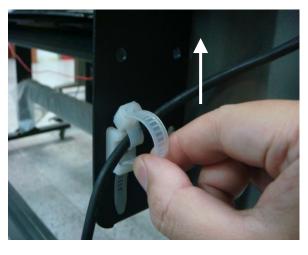


Step 3 Insert the cable tie end into the lower hole of cable saddle to finish the job.

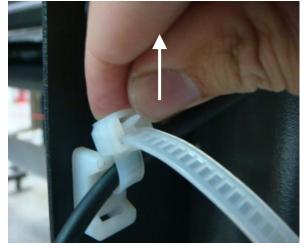


Untied way: pull out the cable tie \rightarrow pull up the pin \rightarrow release the cable tie.

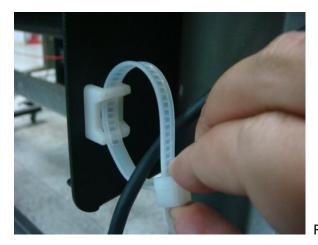




Pull out the cable tie



Pull up the pin



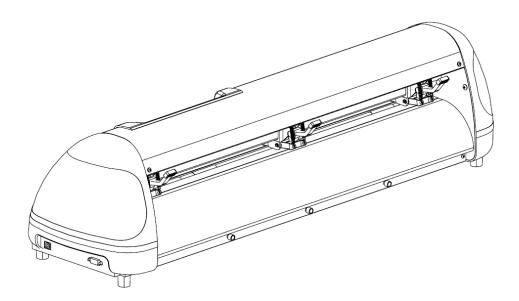
Release the cable tie



2.4 Desktop Flexible Media Support System (for P4-60LX / P4-60 only)

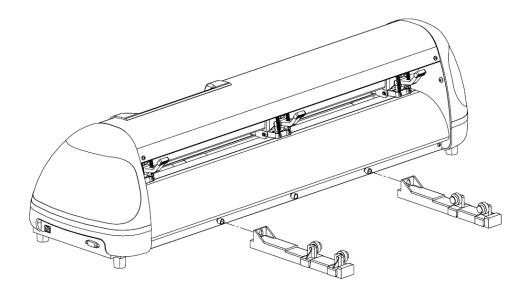
Step 1

Check three spacer supports on the back of the machine.



Step 2

Insert the left and right roll holder base into the spacer supports on the left and right side when 2 inches roll media is used.

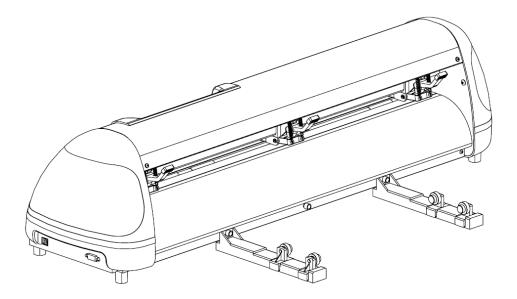




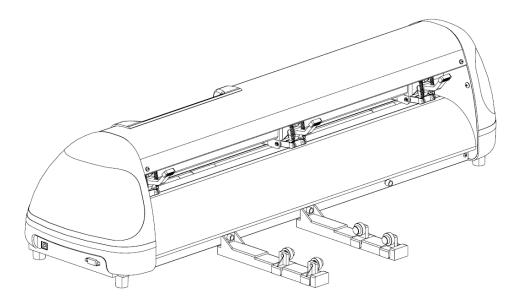


Step 3

Press the roll holder base and the installation is complete.



Note: Insert the left roll holder base into the middle spacer support and right roll holder base into the right one when 1 inches roll media is used.





2.5 Blade Installation

! Caution

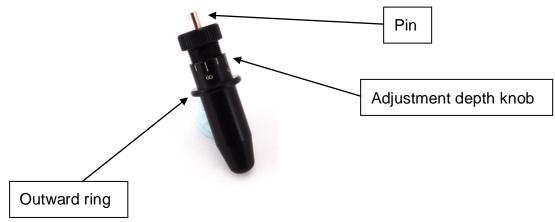
Do not touch the tip of the blade by your fingers.

! Notice

The blade is a consumable item, which will affect the cutting quality significantly. Please replace with a new blade when having the following situations:

- 1. The tip of blade is broken.
- 2. The cutting traces are not as good as they were.
- 3. Uncut area remains the same even the blade force has been raised significantly.

Figure 2-11 is the picture of the blade holder. Insert a blade into the bottom of the blade holder. Pushing the pin on the top of blade holder can remove the blade. Be sure to keep your fingers away from the blade tip.





Step 1 Install blade. (Figure 2-12)



Figure 2-12



Figure 2-13



Step 2 Push the blade to the bottom of the blade holder. (Figure 2-13)

Step 3 Adjust the blade tip to suitable length by rotating "Blade tip adjustment screw" clockwise or counterclockwise. (Figure 2-14)



Figure 2-14

Tips: "The proper length" means the blade length is about 0.1mm more than film's thickness. For example, if the thickness of film is 0.5mm, then the blade length is properly adjusted to 0.6mm and it can completely cut through the film layer without cutting though the paper backing.

Step 4 Insert the blade holder into tool carriage. Please note the outward ring of the holder must put into the groove of carriage firmly (Figure 2-15) and lock the grip. (Figure 2-16)







Figure 2-16

Step 5 Reverse steps mentioned above to remove the blade holder.

Step 6 Press the push-pin to remove the blade from the blade holder when replacing blade (Figure 2-17).



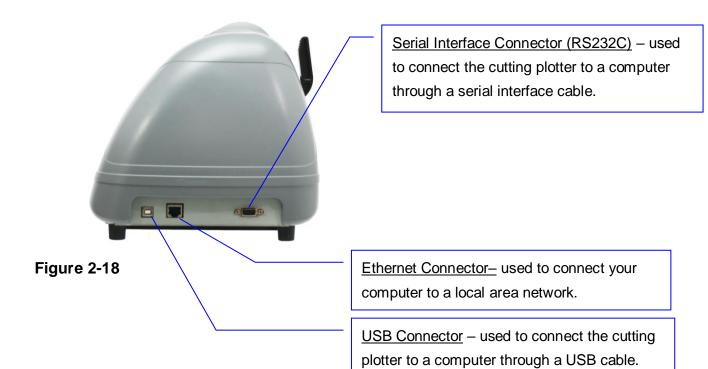
Figure 2-17



2.6 Cable Connections

Puma IV communicates with a computer through **USB (Universal Serial Bus)**, a **Serial port (RS-232C)** or **Ethernet**. 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, serial port will be disabled automatically.



2.6.1 USB Interface

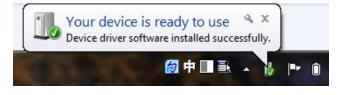
Puma IV build-in USB interface are based on the Universal Serial Bus Specifications Revision 2.0 (Full Speed).

2.6.1.1 Connecting your GCC cutter

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.

You can double click the USB icon on the taskbar to make sure the USB device is detected.





2.6.1.2 Installing the driver

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

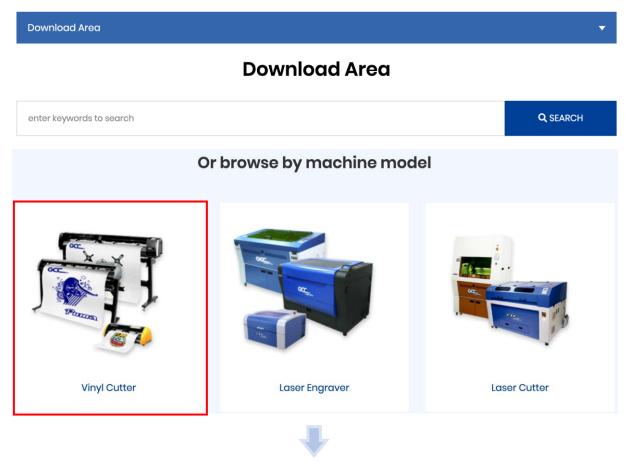
Caution!!

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

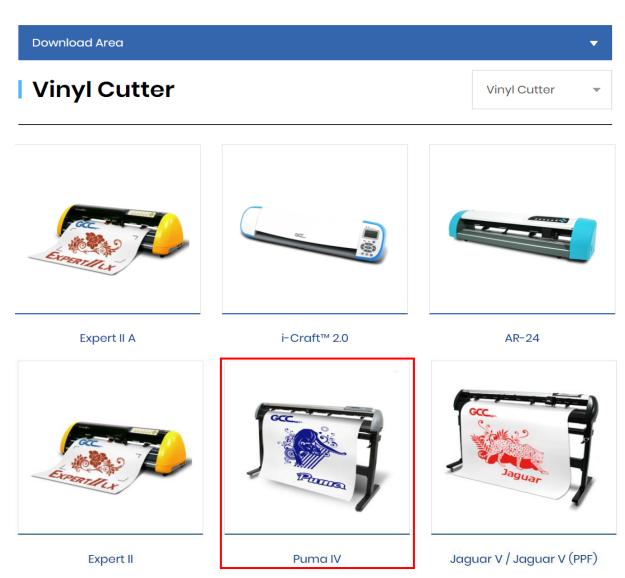
Step 1 Visit GCC website and go to "SUPPORT" page to download the user manual, driver and software (https://www.gccworldnew.com/download.php).



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







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

Cutter_Driver_Install_ar	
Installing	Ĩ
Current File Copying life C	0
Time Remaining 1 minute 0 seconds	
Wise Installation WizerdR	ext > Cancel

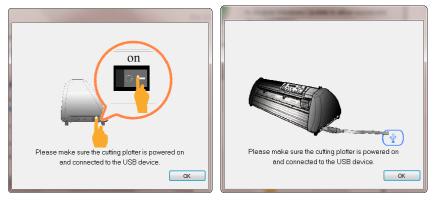




Step 4 If you were Windows 7 and above users, please click on the **red words** to instruct you how to disable Windows Update to allow success driver installation. And then click OK to next step.

×
Windows 7 and above users please follow this <u>step by step instruction</u> to disable Windows Update to allow successful driver installation. Thank you.

Step 5 Please make sure the cutting plotter is powered on and connected to theUSB 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!





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."

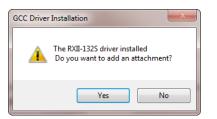


Step 9 Check Install Message to confirm CorelDRAW and AI version and then click OK.

Install Message	
Corel Message Install CorelDRAW 17.0 GCCAASII_Draw.gms successful	
AI Message	
AL MESSAGE AL Plug-in not find	
OK	

Note:

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.

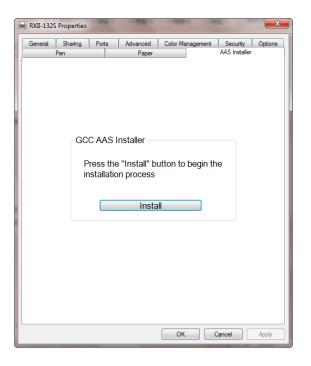


If the user selects yes, a second copy of the driver will be installed.



For users who have upgraded Adobe Illustrator or CorelDRAW, 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.

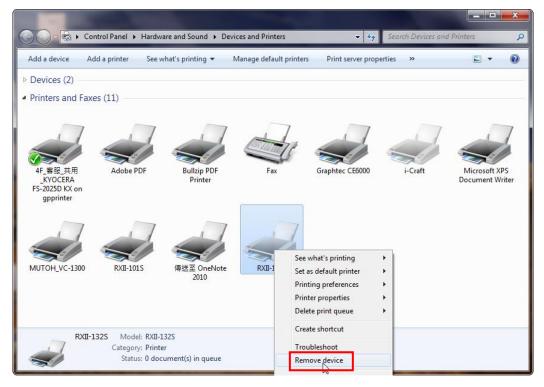




2.6.1.3 Driver Un-installation

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**."





Remove	Device
	Are you sure you want to remove this device? RXII-1325
	Ves No

Step 2 After removing the unit, click on any printer on the page and select "**Print server properties**." (For Win 7and above) Or right click on blank space and then select "**Print server properties**." (For Windows XP)

00-6.	Control Panel 🕨 Hardw	are and Sound 🕨 Devic	es and Printers	- + ₂	Search Devices and	Printers
Add a device	Add a printer See w	/hat's printing Man	age default printers	Print server properti	ies Remove devid	:e 🗉 🕶 🔞
 Devices (2) Printers and F. 4F. 雲服 共用 _KYOCERA FS-2025D KX on gpprinter 	axes (10) Adobe PDF	Bullzip PDF Printer	Fax	Graphtec CE6000	i-Craft	Microsoft XPS Document Writer
MUTOH_VC-1300	RXII-101S	傳送至 OneNote 2010				

Step 3 Select "Driver" page

Forms Ports	Drivers Se		vanced		
Forms on:	MARKET-	EILEENC			
10x11 10x14 11 x 17 11x17				• •	Delete Save Form
Form name:	10x11				
Create a r	new form				
measuremer	v form by edi nts. Then clic iption (meas	k Save For		d	
measuremer	nts. Then clic	ik Save For urements)	m.	d	
Form descr	nts. Then clic	ik Save For urements) ric	m.	d	
Form descr Units:	nts. Then clic	ik Save For urements) ric	m. 🖱 English	d Top:	0.00cm
Form descr Units: Paper size:	iption (meas @ Metr	ik Save For urements) ric Printer a	m. © English rea margins:		0.00cm
Form descr Units: Paper size: Width: Height:	iption (meas @ Metr 25.40cm	ik Save For urements) ric Printer a Left: Right:	© English rea margins: 0.00cm] Top:	



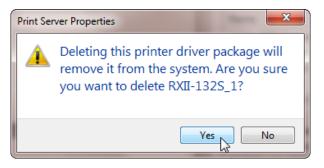
Step 4 Select the model and click on "Remove".

🖶 Print Server Properties	-		×		
Forms Ports Drivers Secur	Forms Ports Drivers Security Advanced				
MARKET-EILEENC					
Name	Processor	Туре	*		
Adobe PDF Converter	x86	Type 3 - User Mode			
Bullzip PDF Printer	х64	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	x86	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-1325_1	x86	Type 3 - User Mode	-		
Add	Remove	Properties			
Change Driver Settings					
OK Cancel Apply					

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

Remove Driver And Package				
Do you want to remove the driver(s) only, or remove the driver(s) and driver package(s) from your system?				
Remove driver only.				
Remove driver and driver package.				
OK Cancel				

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-132S_1 was removed.
Delete	Delete OK

2.6.2 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

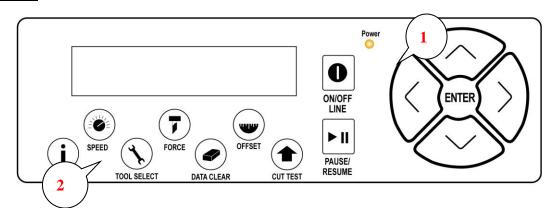
2.6.3 Ethernet Connection

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

If you output your plot through Adobe Illustrator or CorelDRAW, please follow the instruction **Output through the Ethernet Driver** below.







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

instruction.)

TCP/IP Configurati	ion			×
This setup all	ows you to co	nfigure your T(CP/IP port.	
IP Address:	192 .	168	1	. 153
Model:	RXII-132S	•		
			Save	Cancel

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

GCC Driver Installation	3
The RXII-132S driver installed Do you want to add an attachment?	
Yes No	

2.6.4 Data Transmitting

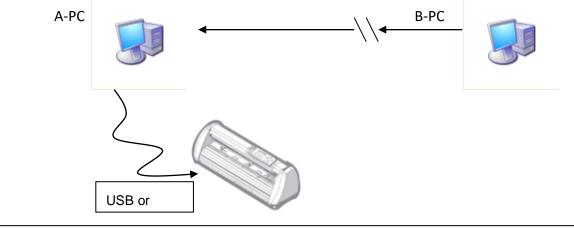
There are two options to transmit the data from the computer to the cutting plotter:

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.

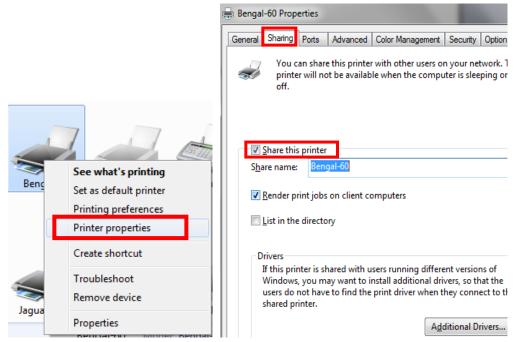
2.6.5 Printer Sever Shared Setting

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





Step 1 Set A-PC's printer driver as a 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.

拱 Bengal-60 Pro	operties				×
General Sharin	g Ports	Advanced	Color Management	Security Option	Paper
Always av	ailable				
O Available f	rom	12:00 AM	To To	12:00 AM	×
Priorit <u>y</u> :	1				
Driver:	Bengal-6	50		▼ Ne <u>w</u> Dri	ver
 Spool print documents so program finishes printing faster Start printing after last page is spooled Start printing immediately 					
Print directly to the printer					
<u>H</u> old mismatched documents					
P <u>r</u> int spooled documents first					
<u>K</u> eep printed documents					
<u>Enable adv</u>	/anced pr	inting feature	S		



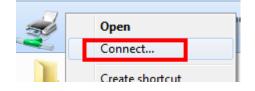
-

GCC

Step 3 Send a job from A-PC to the machine to check if A-PC is connected to the machine.

CorelDRAW 11	Expert 24 LX		
		Try to send a job to check if the port is working.	
Step 4 Activate A-PC's Printer Driv	er from B-PC's Netw	vork. Bengal-6	·

Step 5 Right-click on the printer icon, and select "Connect" to A-PC's printer.





2.7 Software Installation

2.7.1 GreatCut-S 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.

GCC			Your Satisfaction Is Ou	First Priority
elcome to GCC Club . ease review the following	terms and conditions, and i	ndicate your agreement	elow.	Already have an ID? Sign
C class: B class: A class:	everal classes of men : General user C class users ar : Registered user B class users are : GCC customers	re only allowed to e eligible to view ustomers are regis	class are restricted to access certain informat access some contents and files of the website. most of the website contents and allowed to dow ered and provide a serial number of a product,	nload certain files
This Web Sit which are se Terms and Cc notice to yc unacceptable 1.Copyright, The graphics protected by Company. Re- 2.Responsibi	et out below. If you notitions, they are b bu. Your access the C e otherwise your cont . Trademarks etc. ., images, editorial / copyright and trade use of any of the fo ility	te accessed throug do not accept the inding upon you. (company's Web Site tinued use will co content and HTMC of mark laws and may oregoing is strict	this site) and the services provided therein a Terms and Conditions, please do not use this ke CC ("the Company") may revise the Terms and Con and its services will be terminated upon your m stitute your acceptance of all changes and they n all the Company's Web Sites are the intellect not be downloaded or otherwise duplicated withon y prohibited and the Company reserves all right imes but reserves the right to do so. The Compan IAgree IDisagree	<pre>> Site. Upon your acceptance of the ditions from time immediately upon stice to the Company that any change is will be binding upon you. Jul property of the Company and are it the express written permission of the s. y takes no responsibility whatsoever </pre>
			f 🕨 🥥 😰 🍏 in	GCCworld.com Copyright © 2005 GCC. All rights reserved
gn up for GCC Club				Already have an ID? Sign
			in your GCC ID or Password.	
Your GCC ID	GCCMKT	(Must be 5-20 cha	acters)	
Password Re-enter password				
Personal Information	•••••			
Name	GCCMKT			
Email	keira.lee@gcc.com.tw		(Enter a valid email for immediate confirmation.)	
Country	Taiwan	~	(Enter a valid email for infinediate commation.)	
Cell Phone	+886			
Subscribe to our free e-				
I understand that I main invitation at any time	e-newsletters and offers is ay change my preference by clicking on the Unsub u are not a robot: 0 + 3 =	or unsubscribe from ar		
Submit Reset				



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.

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

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 Is Our First Priority Edit My Info	Change My Password Log Or
S Tech Support	GreatCut-S Serial Numbe	r		
🙆 Drivers				
🕘 User Manual				
🛃 Clipart Download	GreatCut-S Serial I	Number List		
Product Video				
Showcase	Obtain Your Great	Cut-S Serial Number		
Product Registration	Voucher Code	2KUK4LCZQGV71EBKVP8		
⁽²⁾ GreatCut-S Voucher Code ⁽²⁾ GreatCut-S Voucher Code ⁽²⁾ GCC Bonus Credit (North America)	Please calculate it if	you are not a robot. 2 + 1 = 3		



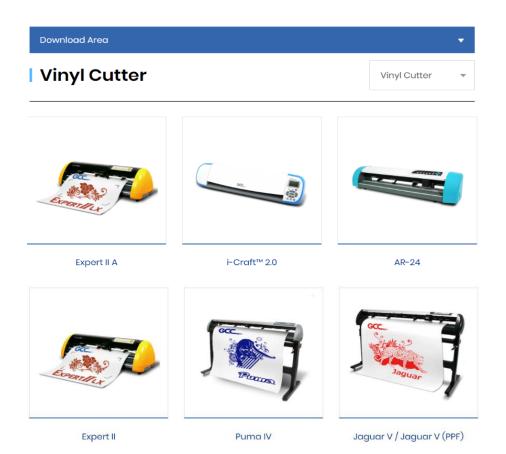
4. You will get your GreatCut-S serial number.

GCC		
LLUB	Welcome : GCC-MKT	
🕙 Tech Support	GreatCut-S Product Key	
🕘 Drivers		
🕘 User Manual	ſ	
🛃 Clipart Download	GreatCut-S Key List	
Product Video	Date	2022/10/11 上午 05:24:21
Showcase	Product Name	Cutting Plotter / Puma IV / P4-132LX
Product Registration	Machine S/N	W70233
GreatCut Voucher	Voucher Code	AALD2MPORF7LVPDP4KQQ
Code	GreatCut-S Product Key	AC19BBD4-BDA8-4B1F-8CCA-712086A0D9D6
🗑 GreatCut-S Voucher Code		
🐼 GCC Bonus Credit	Obtain Your Product Ke	у
(North America)	Voucher Code	
	Please calculate it if you an	re not a robot: 8 + 7 =

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







6. Download GreatCut-S to start the installation.

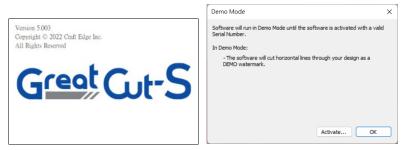
Software		-
Title	Size	Download
Sure Cuts A Lot Pro 5 _Win64bit	52.1 MB	Download
Sure Cuts A Lot Pro 5 _Win32bit	34.0 MB	Download
Sure Cuts A Lot Pro 5_Mac	39.9 MB	Download
SignPal V19	818 MB	Download
GreatCut-S for Windows	303 MB	Download
GreatCut-S for Mac	303 MB	Download



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



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 Great Cut-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 >
Serial: Activate manually Cancel OK If you are unable to activate, check the Activate manually option, and obtain your Activation code at:	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.
http://www.crafted.ge.com/activation/greatcut	羅定

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.



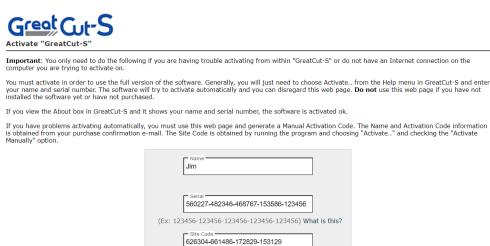
2.7.2 Manually Activate GreatCut-S

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.

1. 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.

Name:	Jim		
Serial:	560227-482346-46	8767-153586-123456	
Site Code:	623516-343330-06	5511-410429	
Activation Code:			
🗸 Activate manu	111	Cancel	ОК

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

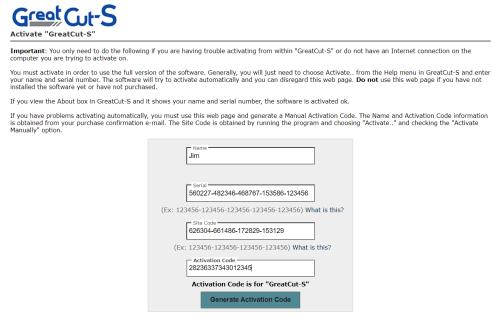


Generate Activation Code
After entering in your Name, Activation Code, and the Site Code, click the Generate Activation Code button to create your Manual Activation Code. Copy and
paste the value back into the "Activation" dialog box in the application to activate your copy.

(Ex: 123456-123456-123456-123456) What is this?



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



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:	560227-482346-468767-	153586-123456	
Site Code:	626304-661486-172829-	153129	
Activation Code:	28236337343012345		
🗹 Activate manua	Шу	Cancel	OK

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







2.7.3 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.

☞ GreatCut-S: Untitled-1 ile Edit Object Path Layer Page Effects Text View Cutter Window H	elo	
New Open Save Cut Copy Pase Undo Redo Impart Trace Library	About GreatCut-S Help	F1
Handles: Basic V	Support Language	>
VIntitled-1 S New Project	Deactivate	<u> </u>
G Deactivate X		
Are you sure you want to deactivate the software? Deactivating will allow you to re-install on a different computer. (Requires an Internet connection)		
Yes No		

2.7.4 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

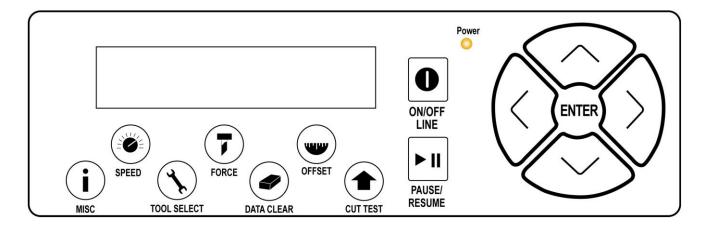
	t where yo
under the Help	p menu in
after using this	is page, y



Chapter 3 The Control Panel

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

3.1 The LCD Panel



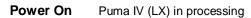
< LCD Control Panel on Puma IV series >

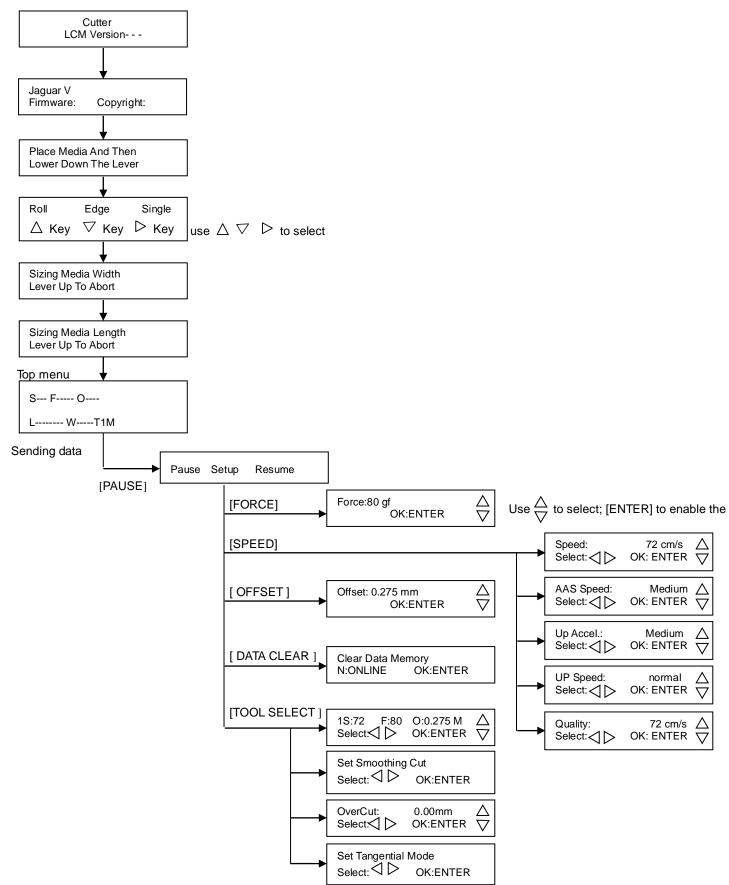
Кеу	Function
LCD Screen	To display functions and error messages.
Power LED	To indicate the power status (light up: power on; light off: power off)
4 Arrow Keys	To move position, select function, or change setting.
ENTER	To set item or register the immediately preceding input value.
PAUSE/RESUME	To temporarily 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 tests on different media
DATA CLEAR	To clear up buffer memory.
TOOL SELECT	To select tools.
MISC	To set up functions.

Please see details in "3.4 Menu Items"



3.2 Menu in On-line Mode

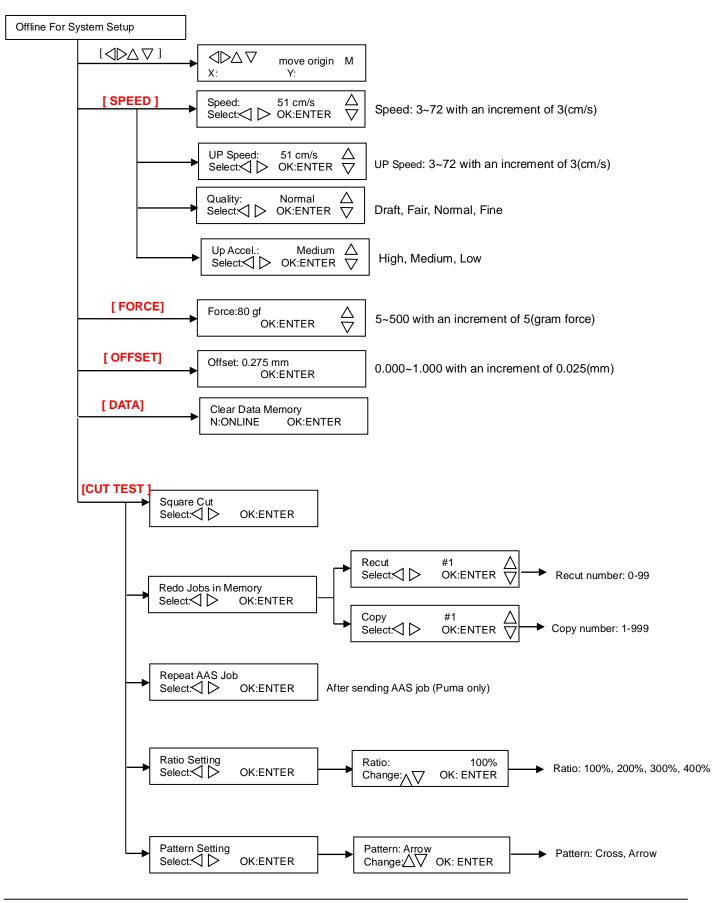




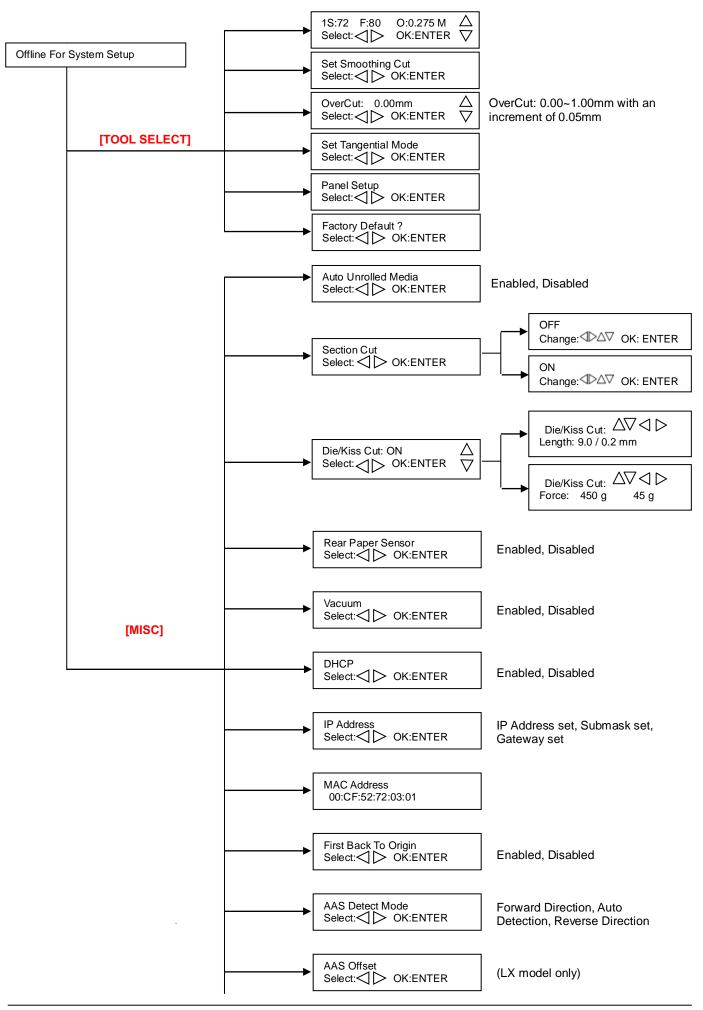


3.3 Menu in Off-line Mode

Press [ON/OFF LINE] to switch to the offline mode

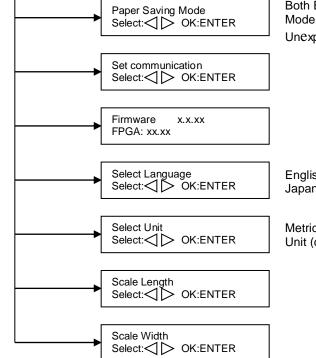








Puma IV User Manual



Both Expanded Mode, Length Expanded Mode, Width Expanded Mode, Both Unexpanded Mode,

English, Francais, Türkce, Polski, Ingles, Japanese, Deutsch, Italian, Espanol

Metric (cm/g), Unit (inch/ g), Unit (cm/ oz), English (inch/ oz)





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 Tracking 150 meters					
Edge	To measure media width and pull the media back till the front paper sensor open.	Maximum Tracking 150 meters					
Single	To measure media width and length.	Maximum Tracking 10 meters					
	POWER						
	To indicate the power status.						
	[Arrow Keys]		<u> </u>				
	 To move the tool carriage position on X or Y axis. To select functions or change values of settings. 						
	[ENTER]						
	 The displayed parameters will be saved automatically. 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]						
	To temporarily halt the cutting process. To resume the process by press [Pause/Resume] key again.						
[ONLINE/OFFLINE]							
	 To switch between online mode and offline mode. 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]						
	To set or modify the distance between the blade tip and the center axis.	0.000~1.000mm	0.275mm				
	[FORCE]						
	To set or modify the value of tool force.	5~500gram; 5 gram/per step	80 gram				
	[SPEED]						
Speed Up Speed	To set or modify tool speed at horizontal moving. To set or modify tool speed while the tool move from endpoint to	3~72 cm/sec; 3cm/sec per step 3~72 cm/sec;	51cm/sec 51cm/sec				
Quality	next start point at horizontal moving.	3cm/sec per step Draft, Normal, Fair,	Normal				
Quanty	To set or modify cutting quality. [Slower speeds / higher quality - Faster speeds / lower quality]	Fine	Normai				
	The Set Cutting Quality Page 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 Quality Mode offers the highest quality, sacrificing output speed. Keep in mind that speed and quality are usually at a tradeoff.						

Up Accel.	To set or modify tool acceleration levels while the tool move from endpoint to next start point at horizontal moving.	High, Medium, Low	Medium
	[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: 0 means limitless. If you want to set number as 0, you should set that between repowering the cutter and putting down the lever.	Recut (number of jobs: 0-99) Copy (number of jobs: 1-999)	Recut
	To repeat AAS jobs automatically without having to operate on	JODS. 1-999)	
Repeat AAS Job	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. This option will appear after finishing reading all registration		
Ratio Setting	marks (Puma only). To adjust the size of the pattern	100%, 200%,	100%
Katio Setting		300%, 400%	100%
Pattern Setting	To provide two patterns for cut test	"Arrow" and	"Arrow"
	Note: It is recommended to select "Cross" if you are working on thick pieces of materials.	"Cross" patterns	AITOW
	[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 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 adjust or check individual parameters, go back to the responding keys on the panel and press "Enter" to confirm.	Patterns1~4	Pattern 1
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 emulated 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.		Disable
Panel Setup	Accept setup command: To accept commands of the Force, Speed, Cutting Quality, and Offset only via software.		
	Control panel only:		
	To accept commands of the Force, Speed, Cutting Quality, and Offset only via control panel of the cutter.		

	To avoid paper ion and mater area hypertractice the second		/ User Man
Auto Unrolled Media	 To avoid paper jam and motor crash by automatically unroll media (50cm and up) before cutting while enabled. * Auto-unroll only effects on roll/edge media. * Using Single mode to size media will disable this function automatically. * If the length of the rolled media is less than 2 meters or the unright is light, it is recommended to set this mode disabled. 		Enable
Section Cut	 weight is light, it is recommended to set this mode disabled. 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. 		200mm intervals
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	
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
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
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 Detect Mode	 To recognize the printed sheet media is fed in forward direction or reversed direction by detecting the registration marks. 1. Forward direction: to detect the registration marks in forward media feeding direction 2. Auto detection: to distinguish the media feeding direction automatically by detecting the registration marks. 3. Reverse direction: to detect the registration marks in reversed media feeding direction 		
DHCP	Shows your IP address for TCP/IP Configuration		Disable
IP Address	Shows the IP Address of your cutting plotter.		
MAC Address AAS Offset	Shows the MAC Address of your cutting plotter. To set or modify AAS offset value. (Puma only) You can refer to "5.3 Printer Test" for more details.		
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.DataBits 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, p9600pbs, 7 Bits with NO Parity9600, o, 7, 1, p9600pbs, 7 Bits with ODD Parity9600, e, 7, 1, p9600pbs, 7 Bits with EVEN Parity9600, n, 8, 1, p9600pbs, 8 Bits with NO Parity9600, o, 8, 1, p9600pbs, 8 Bits with ODD Parity9600, e, 8, 1, p9600pbs, 7 Bits with ODD Parity9200, n, 7, 1, p19200pbs, 7 Bits with ODD Parity19200, n, 7, 1, p19200pbs, 7 Bits with NO Parity19200, n, 7, 1, p19200pbs, 7 Bits with NO Parity19200, n, 7, 1, p19200pbs, 7 Bits with ODD Parity19200, o, 7, 1, p19200pbs, 7 Bits with ODD Parity19200, o, 7, 1, p19200pbs, 7 Bits with ODD Parity19200, e, 7, 1, p19200pbs, 7 Bits with ODD Parity19200, e, 7, 1, p19200pbs, 7 Bits with Parity19200, e, 7, 1, p19200pbs, 7 Bits with Parity		



Puma IV User Manual

	19200, n, 8, 1, p 19200pbs, 8 Bits with NO Parity 19200, o, 8, 1, p 19200pbs, 8 Bits with ODD Parity		
Firmware Version	19200, e, 8, 1, p 19200pbs, 8 Bits with EVEN Parity To display the version number of Firmware and FPGA code.		
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	Fixed scaling, for maintenance only.		
Scale Width			

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:

Pull the lever upward to raise the pinch rollers. (Figure 4-1)





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 be covered by the paper sensors on the platen when loading the media. At least one of the two paper sensors should be covered. Once the media covers the sensor, the cutting plotter will size width and length of media automatically.

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 top trail will help you position pinch rollers when media on the platen. (Figure 4-2)



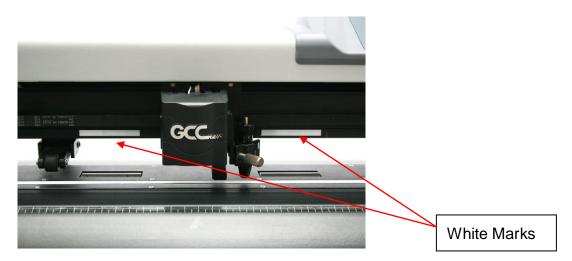


Figure 4-2

Push the lever downward to lower down the pinch rollers.

Turn on the power; the machine will be initialized. Then follow the instruction of LCM to measure the size of the media.

Note:

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.



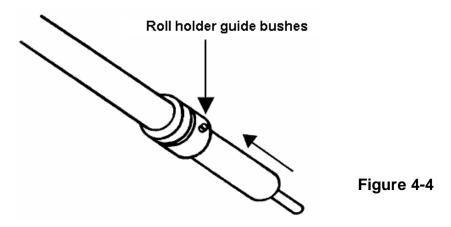
Figure 4-3 correct way to move pinch rollers



4.1.2 Loading the Roll Media

Step 1

Firstly, put the roll media guide bushes on two roll holders. (Figure 4-4)



Step 2

Option A (Use the media flange)

Insert a roll media flange at the end of each roll media and tighten the thumbscrew until the roll media is firmly gripped. (Figure 4-5)

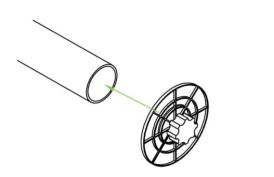


Figure 4-5

Then put the roll media on the roll holders. Adjust the position of the roll media ensure that the media flange is able to run in the groove of roll holder guide bushes. (Figure 4-6)

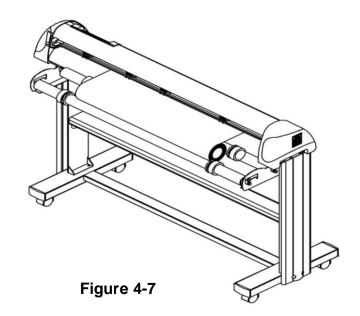


Figure 4-6



Option B

Insert the two roll holders into the roll media support set, and then place the roll media directly between the two roll holders. (Figure 4-7)



Step 3

Load the media on the platen. After loading the roll media, flatten the media on the platen and hold the front edge of the roll media firmly (Figure 4-8)

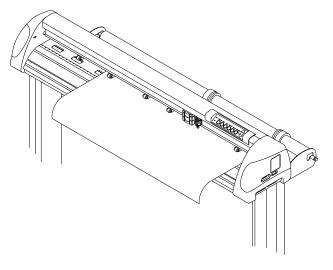
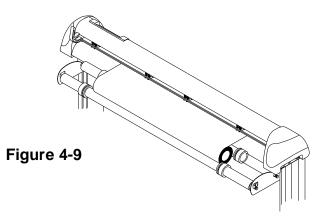


Figure 4-8



Step 4

Then turn the roll downward to make an equal tension across the media. (Figure 4-9)



Step 5

Move the pinch rollers to the precise location and be careful that the pinch rollers must be positioned above the grid drums.

Step 6

Push the lever downward to lower down the pinch rollers.

Step 7

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

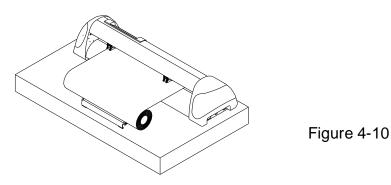
Step 8

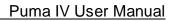
Turn on the power switch and select Roll, Edge or Single mode appropriate for one time setup, or set to Default Roll in Sizing Setting and Roll type sizing will be performed when the machine is turned on. Then the cutting plotter is ready to work.

Step 9

Unloading media: Reversing steps mentioned above to remove the media.

For the users of Puma IV 60 LX / Puma IV 60, you can also use the "Roll Base" (a standard accessory of Puma IV 60 LX / Puma IV 60) to feed a roll media. Please adjust the position of roll base to get a good cutting result. (Figure 4-10)

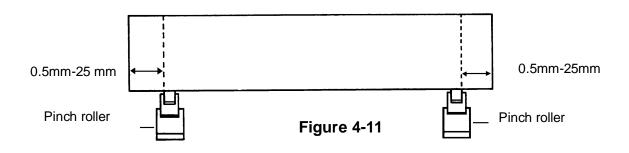






4.2 Tracking Performance

In order to achieve the best tracking performance for a long plot, please leave the margin of 0.5mm~25mm in the left and right edges of the media.(Figure 4-11)



4.3 Cutting Force and Offset Adjustment

Before sending your designs from computer to Puma IV for cutting, please make "Cut Test" to adjust cutting force and offset value.

The "Cut Test" should be repeated several times until the optimum settings are achieved.

Please follow procedure below to optimum the cutting force and offset settings.

Step 1

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.

Step 2

Press [ARROW KEY] to move the tool carriage to the position where you would like to cut. Then, press the [ENTER KEY] to make a "Cut Test".

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

Step 3

When the "Cut Test" is completed, a pattern appears (please refer to Figure 4-12). Peel off the pattern to see if it can be easily separated from the media base. If the output result is good, the cutting force is set appropriately. If not or it cut through the back paper of media, press [FORCE KEY] to adjust the tool force



until an optimum force is obtained.

Step 4

If the pattern appears to be BB or CC layout (see Figure 4-12), press [OFFSET KEY] to adjust the offset value until AA pattern is shown.

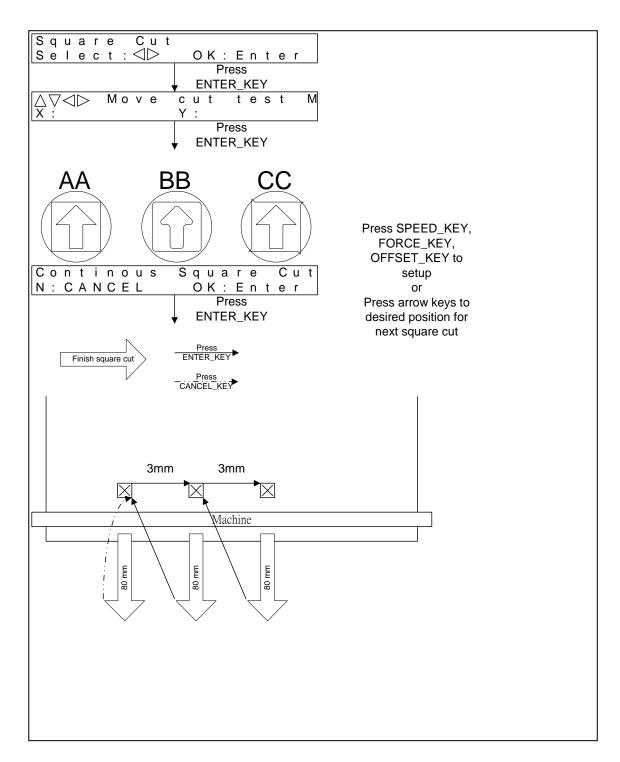


Figure 4-12



4.4 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 4-13)



Figure 4-13



4.5 Puma IV Print Driver setting

4.5.1 Puma IV Print Driver setting > Option Page

Pen		Paper			AAS Installer	
General Sharing	Ports	Advanced	Color Ma	nagement	Security	Options
Setting			- File Functio	n		
Pen Speed	30 (cm / s		Save		
•		F.		Load		
Pen Force	80 g	•		Origina	əl	
Offset	0.275 (nm		Save To D	efault	
٠		•		Delete	•	
Quality	mall Letter	•	Custom M	edia :		_
- Image Scaling						
X: 500	0 / 5000					
		F.				
Y: 500	0 / 5000)mm •				
		,				
Use Plotter	-		Default :			
Back to Ho			Reflective			
AAS: Urigin	n using printer :	setting	Vinyl.JA4 Window_			
		tervals				
	gistration Mark					
📃 Die Cut						
Die Cut Length	1.00	mm	Kiss Cut Leng	th 1.00	mm	
Force	80	g	Force	e [40	g	
			OK	(Cancel	Apply

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

Quality:

[Small Letter / Fine / Normal / Fair / Draft]

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.

Use Plotter Setting:

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

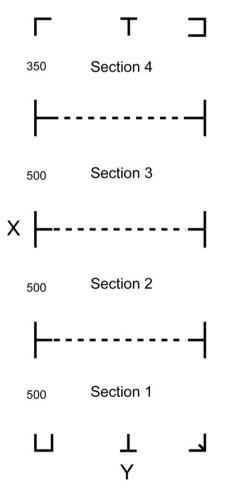
Back to home:

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



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:

The file function section allows users to set the parameters of Speed, Force, Offset and Quality for later use. 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.

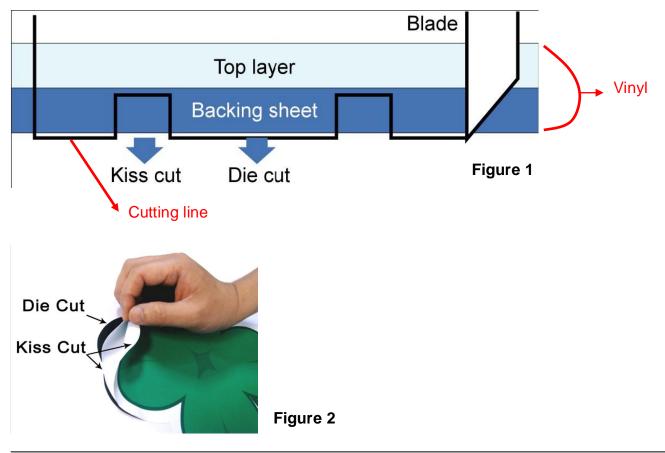
- Save: This function will save current print driver parameter settings to a file under the specified location on your computer. (Saved parameter setting files will be tagged with the Puma series extension)
- Load: This function allows you to load previously saved print driver parameters.
- Original: 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, whereas the settings in Default section cannot be deleted. Please note the delete function only removes the list shown in Custom Media section, it does not remove the file from your hard drive, if you wish to completely remove the file from your hard disk, you will have to manually delete the file from your operating system.
- **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.

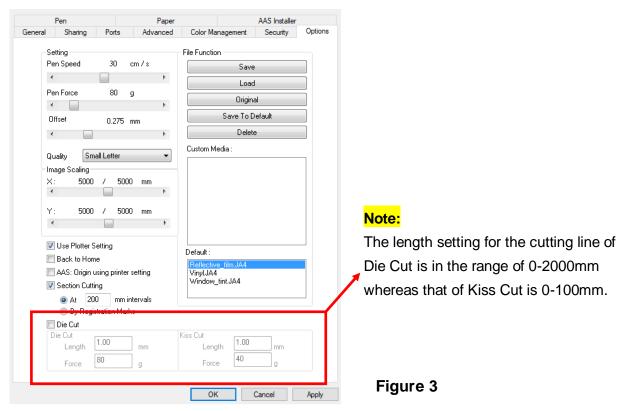
Die Cut:

The Die Cut function must be activated with the Kiss Cut function to avoid the falling of cut-through materials and material jam beneath the carriage. Die Cut helps you to cut through the backing of the material while Kiss Cut cuts through only the top layer but not the backing. This will leave only tiny bits of the backing attached to the top layer, creating complete individual patterns with backing sheets (see figure 1 and 2).





To activate the Die Cut function, go to "Option", tick "Die Cut", and enter the amount you wish for the "Length" and "Force" of both Die Cut and Kiss Cut, then click "OK" (see figure 3).



When the job is completed and you untick the Die Cut function, you will be able to adjust the pen speed, pen force, and offset in the section on the top following normal operating procedures (see figure 4).

Pen		Paper		AAS Installer	
General Sharing	Ports Adva	nced Co	lor Management	Security	Options
Setting Pen Speed Pen Force	30 cm/s 80 g	File F	unction Save Load	1	
Offset	0.275 mm		Save To Delet		
Quality Sma	Letter	► Cus	tom Media :	e	
Image Scaling X: 5000 Y: 5000 Use Plotter So Back to Home AAS: Origin u Section Cuttir O At 200 By Regist	e sing printer setting g mm intervals	Vir	sult : <u>flective_film.JA4</u> yLJA4 ndow_tint.JA4		
Length	1.00 mm 30 g	Kiss C	ut Length 1.00 Force 40	mm g	
			OK	Cancel	Apply

Note: the extension of the blade has to be set to cut through both the top layer and the backing in the very beginning. You then adjust the tool force for the best cutting performance.



4.5.2 Puma IV Print Driver setting > Pen Page

The Puma series incorporates the use of 6 different colors to represent 6 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 6 different pens (cutter parameter settings), make sure your graphics software can recognize and utilizes the 6 pen colors designated by the GCC Puma series print driver.

No. 2 3 4 5 6	Color	Speed Force 21 30	Offs 90	et OverC Start		Lenath	(mm) Repeat	
2 3 4 5			90		/End		() rioposi	
3 4 5				0.250	1	VZA –	0.0	1
4 5			80	0.250		17A	0.0	1
5		30	80	0.250		V/A	0.0	1
		30	80	0.250		N/A	0.0	1
1.6		30	80	0.250		1/A	0.0	1
		30	80	0.250	1	17A	0.0	1
Speed 🕢	<			>	21	cm/s		
Force :	<			>	90	g		
Offset : 🖂	<			>	0.250	mm	Repeat : 1	7
Length	<			>	0.0	mm	Die Cut	
				Image Scalir				
🗌 Over (Cut			iniago o cam	9			
		A		X: <		>	5000 / 5000,	mm
Start :	0.0	÷ mm						
End:	0.0	÷ mm		Y: <		>	5000 / 5000,	mm
					()K	Cancel	Apply

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 Speed Force Offset Over Cut (mm) Length (mm) Repeat 1 21 90 0.250 8asic colors: 7 × × 2 30 80 0.250 8asic colors: 7 × × 3 30 80 0.250 8asic colors: 7 × × 5 30 80 0.250 9 × × 9 × × 9 × × Speed > > 9 × × 9 × × 9 × × 9 × × Offset: > > > 0 × × 9 × × 0 × × 9 × × 0 × × Image Scaling × × > 0 × × <th>Start / Er Color ? × 1 21 90 0.250 2 30 80 0.250 3 30 80 0.250 4 30 80 0.250 5 30 80 0.250 6 30 80 0.250 Speed > 2 Core : > > Offset : > 0 Custom colors: 0 Image Scaling X: Define Custom Colors >></th>	Start / Er Color ? × 1 21 90 0.250 2 30 80 0.250 3 30 80 0.250 4 30 80 0.250 5 30 80 0.250 6 30 80 0.250 Speed > 2 Core : > > Offset : > 0 Custom colors: 0 Image Scaling X: Define Custom Colors >>
1 21 90 0.250 2 30 80 0.250 3 30 80 0.250 4 30 80 0.250 5 30 80 0.250 6 30 80 0.250 Speed > 2 Chrset: > 0 Custom colors: Custom colors: Custom colors: > Define Custom Colors >>	1 21 90 0.250 2 30 80 0.250 3 30 80 0.250 4 30 80 0.250 5 30 80 0.250 6 30 80 0.250 Speed > 2 Clifset : > Custom colors: Length > Image Scaling Start : 0.0 \bigcirc mm X: <
Force : Offset : Custom colors: Length Custom colors: Dver Cut Start : 0.0 mm Nmm	Force : <
Length Custom colors: Over Cut Start: 0.0 mm X: Custom Colors >> Define Custom Colors >>	Length Custom colors: Over Cut Start: 0.0 mm X: Custom Colors >> Define Custom Colors >>
Start : 0.0 🚔 mm X: < Define Custom Colors >>	Start: 0.0 🚖 mm 🛛 🗶: < Define Custom Colors >>

The GCC Puma series driver cannot store more than 6 pen colors or different cutter parameter settings per file.

Speed (Pen Page) [DEFAULT SETTING: 30cm/sec]

The speed slider controls the cutter's cutting speed during operation.

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

The force slider controls the cutting force during operation.

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

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

Die Cut (Pen Page)

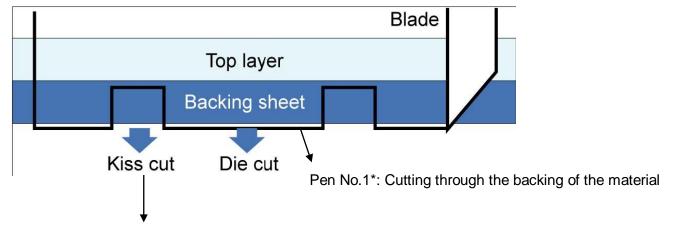
The Die Cut function can allow you to cut through the backing of the material. You can only use the first 3 pen for this function. If you choose Pen No.1 and click the Die Cut function, the Pen No.4 will become Pen No.1* for setting different parameter for the same cutting line.

ptions P	en Paj	er AAS I	Installer				
No.	Color Sp	eed Force	Offset	Over Cut(mm) Start/End	Length (mm)	I	
1	30		0.250	N Z A	0.0	<u>^</u>	
2	3	, 00	0.250	N/A	0.0		
3	30		0.250	N/A	0.0		
4	30		0.250	N/A	0.0		
5	30		0.250	N/A	0.0		
6	30) 80	0.250	N/A	0.0		
						*	
Speed :	•			•	30 cm/s		
Force:	•			Þ	80 g		
Offset:	•			•	0.250 mm		Die Cut warning
_ength:	•			Þ	0.0 mm	🗖 Die Cut	
			Image Sca	aling			No.4 will be set as the Die Cut parameter of No.1,
C Ove	r Cut						continue? (Yes/No)
St	art: 0.0 -	mm	X: 🔳		•	500 / 500 mm	
г.	nd: 0.0	mm		1		500 1 500	
E	nu joso _		Y: •		• •	500 / 500 mm	Yes No

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

For example:

GCC



Pen No.1: Cutting through the vinyl only

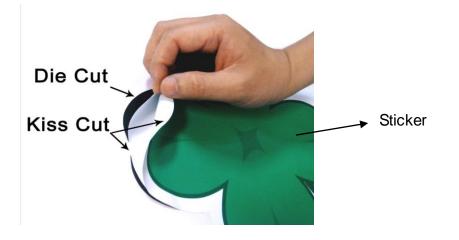






Image Scaling (Pen Page)

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.

4.5.3 Puma IV Print Driver setting > Paper Page

General Sharing	Ports	Advanced	Color Ma	nagement	Security	Options
Pen		Paper			AAS Installer	
Paper Size			Unit			
X	2640.00	mm		tric (mm)		
Y:	1320.00	mm	🔘 Imp	oerial (inch)		
	Version N Co	Puma IV pyright (c) Grea All Rights Re DV 2.1	t Computer Co served. 6-02		Cancel	Apply

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 Jaguar V print driver. You can choose between metric or imperial standards.



4.6 Reference Parameter setting for different materials

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

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			
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			



4.7 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.

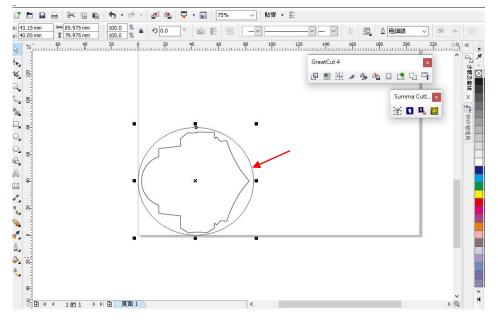


Figure 4-27

 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)

	Arrows
Width:	
Hairline 🕶 millimeters	Options Options
Sty <u>l</u> e:	Share attributes
Edit style	Calligraphy S <u>t</u> retch: Nib shape:
	100 2 %
Corners: France	Angle: 0.0
L <u>i</u> ne caps: 🛛 🛥 📼	Default
Position:	Behind fill
Overprint outline	Scale with object
0	Cancel <u>H</u> elp

Figure 4-28



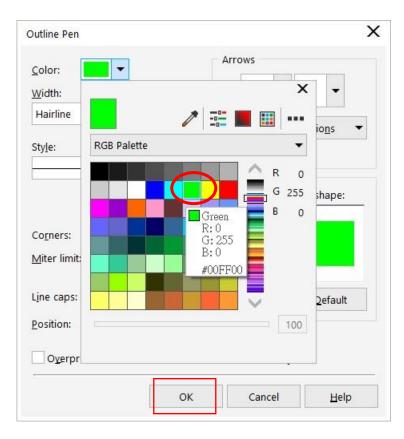


Figure 4-29

3. Outline color has been changed to Green.

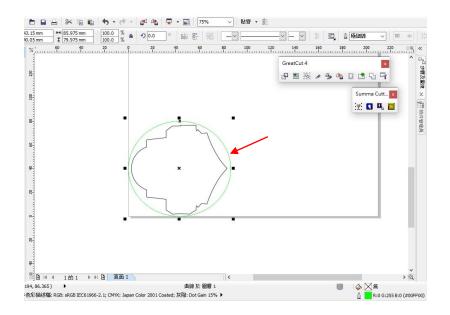


Figure 4-30



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



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



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





Chapter 5 Automatic-Aligning System

Please note that this chapter is only an instruction to AASII. **Puma IV LX models** feature AAS function, but **Puma IV models** don't. If you are **Puma IV models** user, please skip this chapter. For step-by-step instructions, please refer to the following chapters: A-4 CorelDRAW Plug-In, A-5 Illustrator Plug-In, A-6 Greatcut-S quick manual.

5.1 Introduction

The Puma IV LX models 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.

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

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





5.2 AAS Calibrating the 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 Media Calibration

GCC

Media Calibration is to ensure the sensor being able to recognize the registration marks. The factory default works on a wide range of materials. However, certain types of materials may not work properly. Performing a media calibration may become necessary while working with such materials to change the sensitivity of AAS for greater reliability.

Media calibration adjusts the media feeding according to media type for better accuracy during cutting.

When to use

We suggest white media for best cutting result. It is not necessary to perform media calibration every time unless the registration marks on the printed media become undetectable in AAS sensing process.

5.2.2 AAS Calibration

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 SignPal 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
 - \rightarrow Optimized Setting: 25mm
- Thickness: The line thickness of marks
 - → Range: 1mm~2mm
 - → 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

5.2.3 AAS II on Puma IV LX

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 SignPal, EasySign 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 **Appendix A-4 CorelDraw Plug-In, A-5 Illustrator Plug-In, A-6 GreatCut Plug-In.**

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



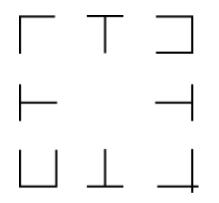
2. Segmental Positioning

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

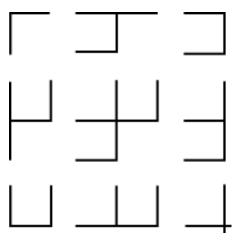




3. Multiple Copies

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:





5.3 Printer Test

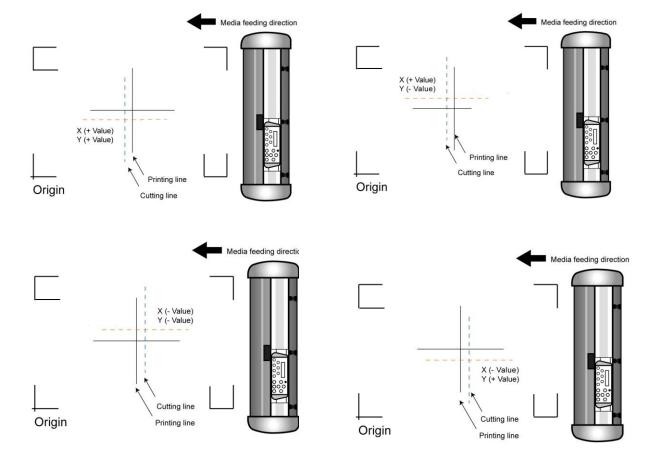
Before performing AAS contour cutting, it's recommended to print out a test file to make sure the AAS II cutting accuracy. Please visit GCC website and go to Download Area to download the test files.

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

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

There are two testing files for AASII:

- 1. AAS II_X_Y_Offset_Caberation_A4 .eps (A4 size)
- 2. 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 Puma IV LX models 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: <u>Horizontal line is defined as X and vertical is defined as Y (when facing the</u> <u>cutting plotter)</u>
 - 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 applies to both X and Y axes.

Note:

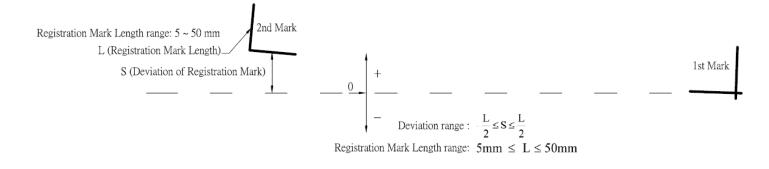
GCC

- 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.



■ Create a contour for cutting around the graphic.



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:

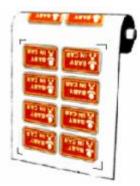
30 mm(1.18 in)	10	Track of Pinch Roller (grey strip)			SHEE1
30 ((((((), ())))))))))))))))))))))))))))	10 mm(0.39 in)	ITACK OF PINCH KOllet (grey shp)			
	10 mm(0.39 in)				
	5 mm(0.2 in)				
25 mm 2nd Mark (0.98 in)		AAS II PRO Layout Instruction		3rd Mark	
		Standard media verification: / Oracle white-color vinyl (651)			
25 mm	5 mm(0.2 in)	/ Grafityp white-color vinyl			
(0.98 in)		/ 5V white-color vinyl			
(0.79 in)		Mark size / Length: 25 mm(0.98 in)			
		/ Thickness: 1 mm(0.04 in) margin between mark & graph; 5 mm(0.2 in)			80 mm(3.15 in) (under Paper Saving Mode/ width expanded mode or
					width expanded mode or Both unexpanded mode)
		X Distance (between 2nd & 3rd marks): / Maximum; 600 mm(23.62 in)			50 mm(1.97 in)
		/ Minimum: 70 mm(2.76 in) (depends on graphic de Y Distance (between 1st & 2nd marks);	esign)		(under Paper Saving Mode/ Both expanded mode)
		/ Maximum: 1770 mm(69.69 in) (depends on media			
		/ Minimum: 70 mm(2.76 in) (depends on graphic de	esign)		
		Repeatability: less than 0.3 mm(0.01 in)			
		WORKABLE AREA			
		(light grey blocks)			
				4th Mark	
1st Mark					
Origin					
		Track of Pinch Roller (grey strip) 30	0 mm(1.18 in)		
Auto-detecting area		Accel of Filler Koller (paysing SA	o mangi rio ing		

- * Auto-detection function on the 1st 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.



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 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 Puma IV driver property.
 Step 1 Find the Puma IV LX 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 Basic Maintenance

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

6.1 Cleaning the Cutting Plotter

In order to keep the cutting plotter under good condition and best performance, you need to clean the machine properly and regularly.

Precaution in Cleaning



- ♦ Unplug the cutting plotter before cleaning
- Never use solvents, abrasive cleaners or strong detergents for cleaning. They may damage the surface of the cutting plotter and the moving parts.

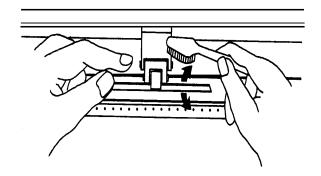
Recommended Methods

- Gently wipe the cutting plotter surface with a lint-free cloth. If necessary, clean with a damp cloth or an alcohol-immersed cloth. Wipe with water to rinse off any residue and dry with 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 or an alcohol-immersed cloth, and dry with a soft, lint-free cloth.
- Wipe dust and dirt from the stand.



6.2 Cleaning the Grid Drum

- Turn off the cutting plotter, and move the tool carriage away from the area needed to be cleaned.
- Raise the pinch rollers and move them away from the grid drum for cleaning.
- 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

If the pinch rollers need 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 finger to hold the pinch rollers not to rotate.

If needed to remove the 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 sure 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 doesn't the cutting plotter operate?

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.

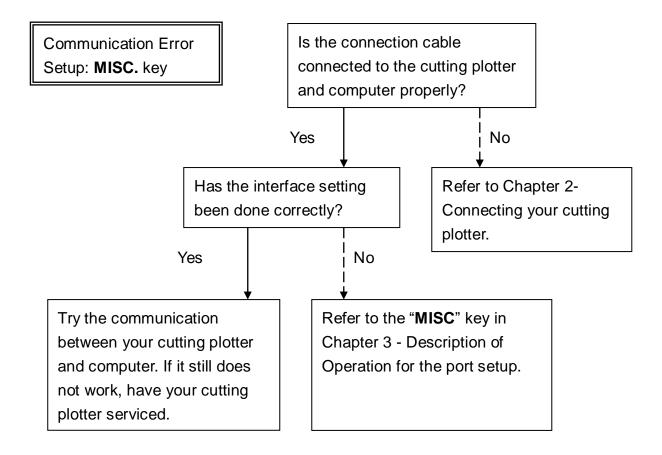
Error, Check Carriage Sensor or VC Motor This message indicates that the blade up/down sensor malfunction. Re-power on to re-boot system. If the problem still exists, find a serviceman.

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.

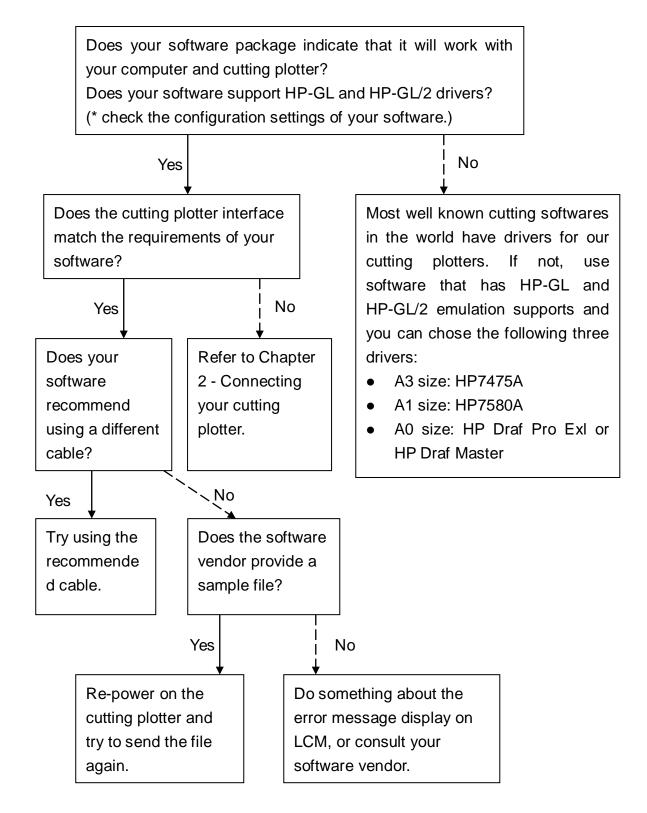
HP-GL/2 Cmd. Error

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

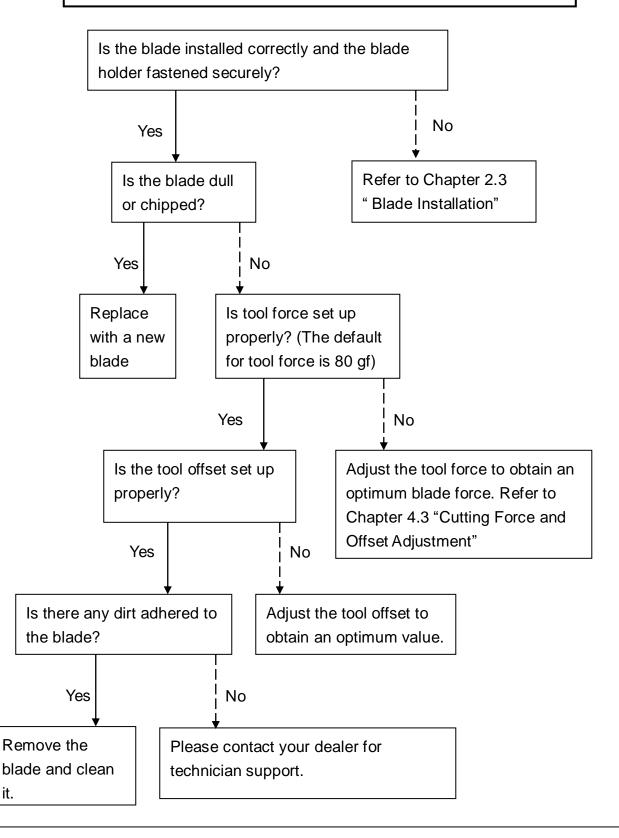
Check the following first:





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.





Puma IV Specification

Model Name/No.	P4-60/P4-60LX	P4-132/ P4-132LX		
Operational Method	Rolle	r-Туре		
Max. Cutting Width	600 mm (23.6 in.) 1300 mm (51.18 in.)			
Max. Cutting Length	50 m (164 ft.)		
Max. Media Loading Width	719 mm (28.3 in.)	1470 mm (57.87 in.)		
Min. Media Loading Width	50 mm (1.97 in)	300 mm (11.8in)		
Acceptable Material Thickness	0.8 mm	(0.03 in)		
Number of Pinch Rollers	2	4		
Motor Drive	DC Serv	o Control		
Cutting Force	5~5	500 g		
Max. Cutting Speed	1020 mm /sec (40.2	ips) (at 45° direction)		
Offset	0~1.0 mm (with an i	ncrease of 0.025 mm)		
Mechanical Resolution	0.009 mm	(0.00035")		
Software Resolution	0.025 mm (0.00098")			
Distance Accuracy	±0.254 mm or ±0.1% of r	nove, whichever is greater		
Repeatability	±0.1mm within 3 meters (* certified media)			
Automatic-Aligning System	Available on Puma IV LX models, including Segmental Positioning and Auto Rotati functions			
Memory Buffer	32 MB / 16 N	1B (when using AAS)		
Interfaces	USB 2.0 (Full Speed), Ser	ial (RS-232C) and Ethernet		
Type of Command	HP-GL,	HP-GL/2		
Control Panel	LCD (20 digits x 2 lines), 14 Keys, 1 Power LED		
Diameter of Blade	2.5	mm		
Dimension (HxWxD) mm	220x 879x258 8.67 x34.61x10.16 in	1065 x 1632 x 620 41.93 x62.25x24.41 in (including stand)		
Net Weight	13kg / 28.6lb	53 kg / 116.4 lb		
Stand	Optional	Standard		
Power Supply	AC 100-240V, 50~6	0 Hz (auto switching)		
Power Consumption	Max.1	70 watts		
Environment Temperature	15°C ~35°C / 60°F	⁻ ~86°F (operating)		
Environment Humidity	25%~ 75% relative	humidity (operating)		

• Compatible with Windows 7and above and 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.

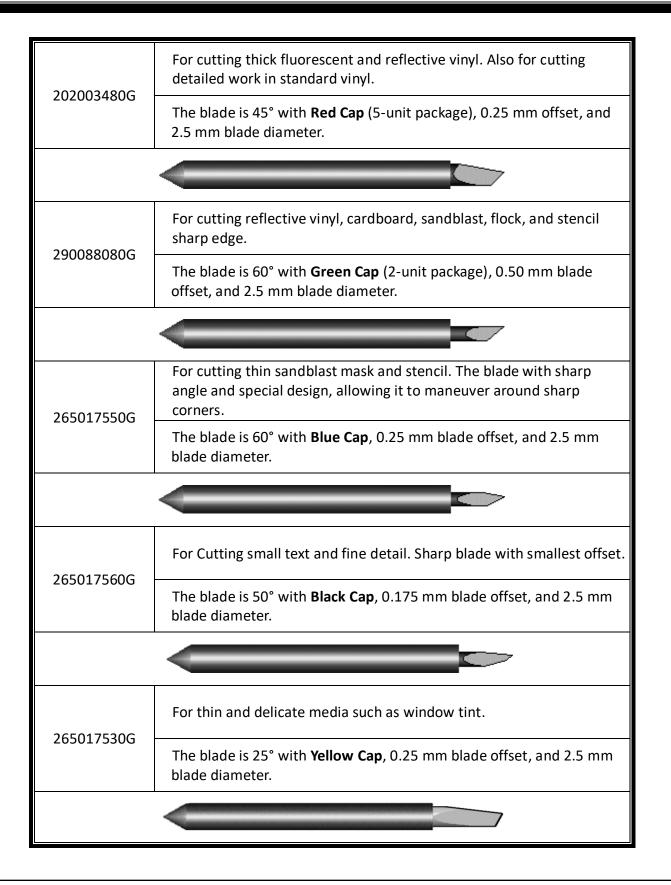
• GCC reserves the right to change the specifications at any time without notice.

• 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

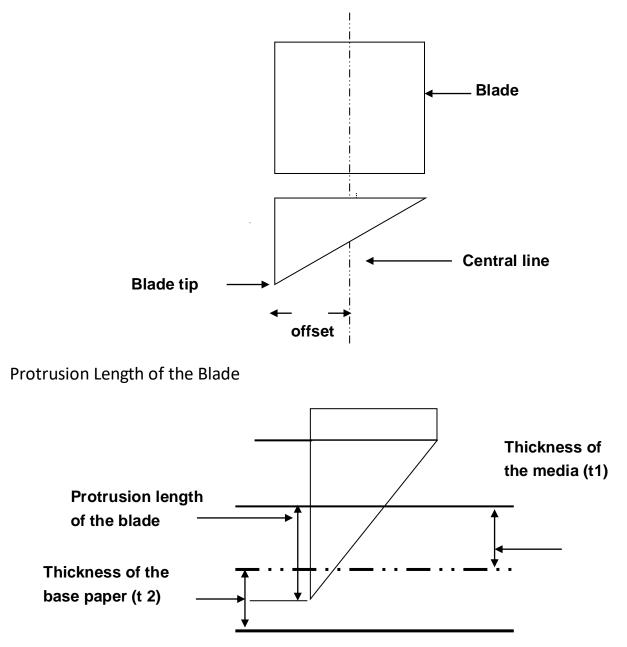




About the Tool

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.

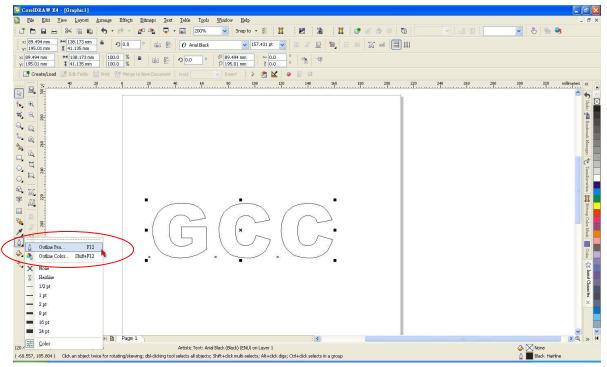


CorelDRAW Output Instruction

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

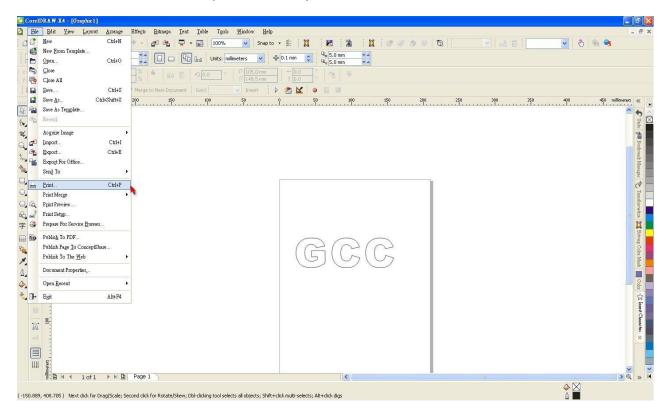


3. Adjust the value of pen width to 0.001 mm and click "OK" to save your input.

Outline Pen		
Color:) illimeters 💌	Arrows
[Edit Style .0 0 0 Line caps	Calligraphy Stretch: Nib shape: 100 \$% Angle: 0.0 \$0 Default
	О П	Behind fill Scale with image



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



5. Choose the correct model you have installed.

Print			
General Layout Separations Prepress Misc Image: The prepress Misc Image: The prepress Misc Misc The prepress Misc Misc	Vo Issues Properties Use PPD Print to file		
Print range © Current document © Documents © Current page © Selection Pages: 1 Evr- 1004	Copies Number of copies: 1	-	
Print style: CorelDRAW Defaults Print Preview Print Print	Sa <u>v</u> e As Cancel Apply Help	HAD Page 1	~



6. Choose the "Layout page" and click the "Reposition images to: → Bottom left corner". Please note that you must put your image at the bottom left corner.

Print						
General Layo Sepa Image position and s As in document Fit to page Settings for Pag Position: x: 35.91 m A y: 169.07 1 A Print tiled pages Tile overlap:	ze to: Cen = 1: Top Left Size: Righ ++ 138.18 Bott 138.18 Bott Top Bott	ter of page ter of page center center it center it center left corner right corner om left corner om left corner om left corner tom		# of tiles:		
Bleed limit: Imposition layout:	4.0 mm	(Full Page)		<u>E</u> dit	Page 1	~
Print Previe <u>w</u>	- 4	Print	Cance	el Apply Help	Prover Second Second Conference of Conferenc	

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.

Destination		
Name: Jaguar IV 183	Properties	
Type: Jaguar IV 183 Status: Ready		
Where: GCCU580: Comment:	Print to file	
Print range Current document Current page Selection	Copies Number of <u>c</u> opies:	
Pages: 1 Even & Odd	11 22 33 Collate	
Print style: Custom (Current settings not saved)	Save As	



CorelDRAW Plug-In Instruction

Puma IV LX cutting plotter features AAS function, but **Puma IV** doesn't. If you are **Puma IV** user, please skip this chapter.

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

Installation

Please refer to Step 8 in Chapter **2.6.1.2** 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".

Run Macro	×
Macro name: GCCModule.GCC_AAS_Plug_In GCCModule.GCC_AAS_Plug_In	Run Cancel
	Step Into Edit
	Create Delete
Macros in: GlobalMacros (GCCAASII_Draw.gms) Description: GCC's AASII Contour cutting System VBA	



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

AAS II Reg. Mark Setting v2.09-01	23
Add Registration Mark by page size	
Add Registration Mark by Object	
4-Point Position	
Length 25 mm (5-50)	
Thickness 1 mm (1-2)	
Margin 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)	
Copies with outline	
Apply Cancel	

GCC

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.

Options		X	
Edit PowerClip Frame Snap to Objects Warnings Warnings Ward of Constant of Co	General Shortcut Keys Appearance Tootip Help: Currently Available On: OK Cancel Help	CorelDRAW X7 (64-Bit) - Untitled-1 File Edit View Layout Arrange Effects C C C C C C C C C C C C C C C C C C C	- 1

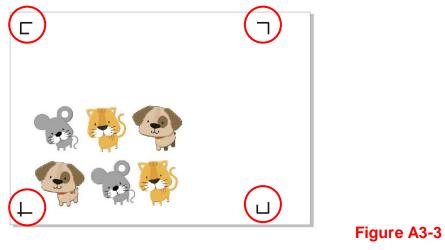


Add Registration Mark by page size

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).

	AAS II Reg. Mark Setting v1.02-01
 Note: 1. The length setting will be in the range of 5-25mr according to your page size. 	Add Registration Mark by page size Add Registration Mark by Object C 4-Point Position
2. Please DO NOT make any changes to the "Origin" section when you choose to add registration marks be page size as indicated below otherwise the position of the marks will be changed (please see Figure A3-2).	y Thickness 1 mm
Options X Snap to Objects Rulers Warnings VBA Save Nudge PowerTRACE Nudge: Plug-Ins Units: Inches Micro nudge: 0.00 in / Costomization Command Be Command Be Units Inches Wartical: Inches Vertical: Inches Vertical: Page Size Layout Label Background Wertical: 0.0 Wertical: inches Wertical: 0.0 Wertical: Show fractions	Y Step 300 mm C Multiple Copies No. of X Copies 1 No. of Y Copies 1 Copies with outline Apply Cancel
Grid Rulers Save Export To HTML Global Concel Help	Figure A3-1 Figure 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

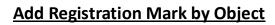
It allows users to edit and cut graphics in the area outside the registration marks when adding registration marks by page.

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.

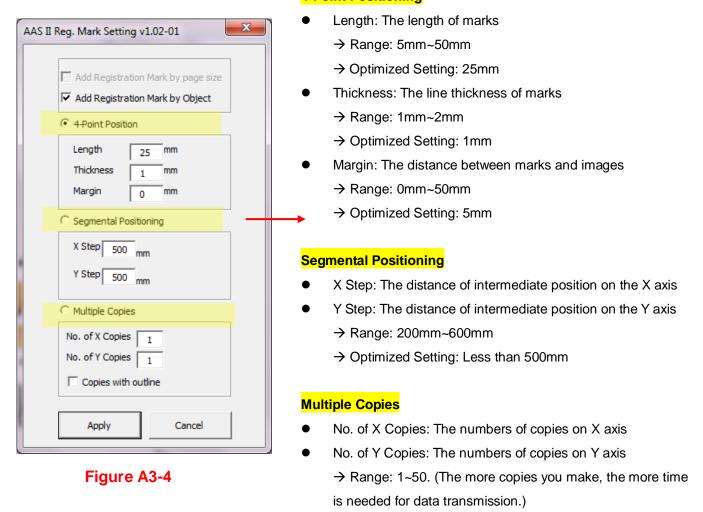
Print						Х
General Color	Composite Layout Prepress	No Issues				
Destination						
Printer:	\\gpprinter2\4F_客服_共用_KYOCE	RA FS-2025D KX 👻	Preferences			
Page:	Match orientation (Landscape)	-	Use PPD		Left side	
Status: Location:	Default printer; Ready 192.168.100.246					
Comment:			Print to file			
Print range © Current do	cument 🔘 Documents	Copies Number of copies:	Top s	ide		Buttom side
Current pa Pages:	ge Selection	1 2 3	Collate		``??```\$`	
	Even & Odd 🔻	Print as bitmap:	300 🚔 dpi Or	(⊥ igin) Right side	
Print style:	CorelDRAW Defaults		Save As		Dane 1	
Print Preview	v 🕼	OK Cancel	Apply Help		▶ ▶ Page 1	•

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**



Note: The values entered in the "4-Point Positioning" section (length, thickness and

amount of image copies

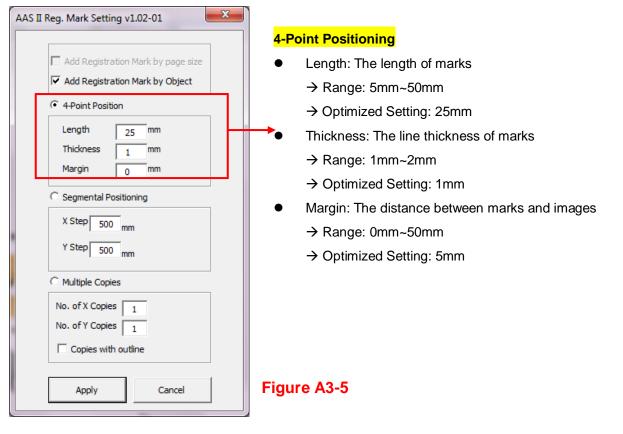
→ Numbers of X Copies * Numbers of Y Copies = The total

Copies with outline: To show outlines of image graphics

margin) will still be applied when you tick "Segmental Positioning" or "Multiple Copies".

4-Point Positioning

GCC



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

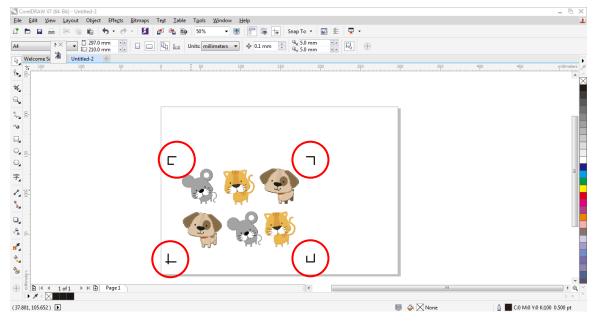


Figure A3-6

Note:

GCC

 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).

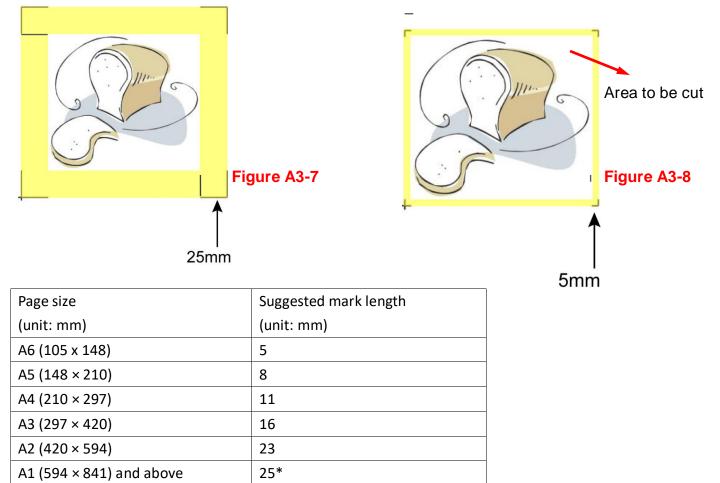


Table 1

*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

AAS II Reg. Mark Setting v1.02-01	J
Add Registration Mark by page size Add Registration Mark by Object Image: Image:	
Segmental Positioning X Step 200 mm Y Step 200 mm	
C Multiple Copies No. of X Copies No. of Y Copies □ □ Copies with outline	
Apply Cancel	

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.

Segmental Positioning

- X Step: The distance of intermediate position on the X axis
- Y Step: The distance of intermediate position on the Y axis
 - → Range: 200mm~600mm
 - → Optimized Setting: Less than 500mm

Figure A3-9

The system will create the as shown in the picture below

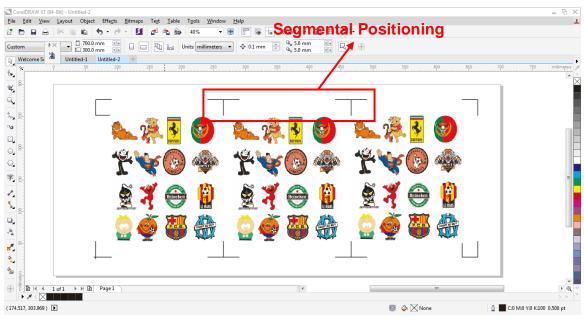


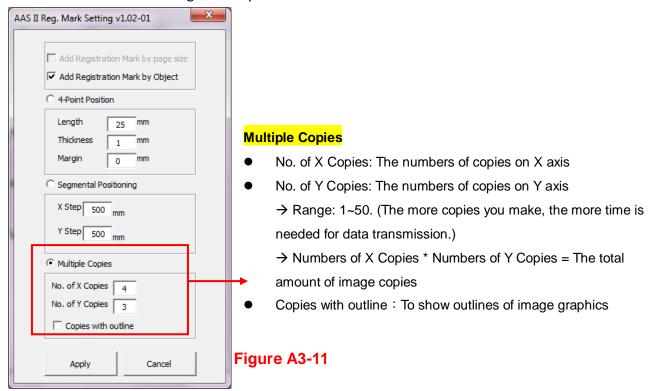
Figure A3-10

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.

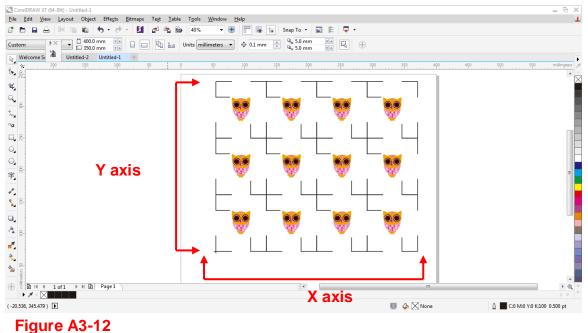
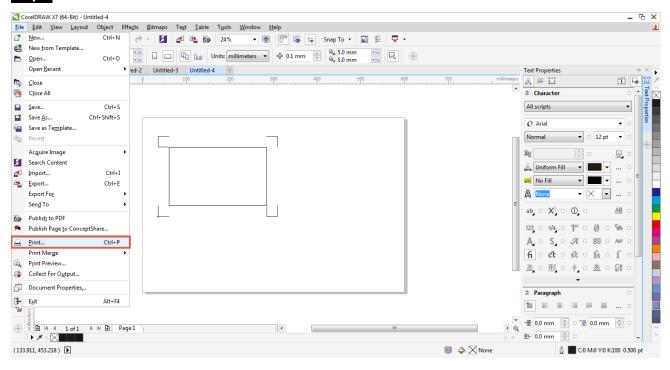


Figure A3-13



Contour cutting through CorelDraw

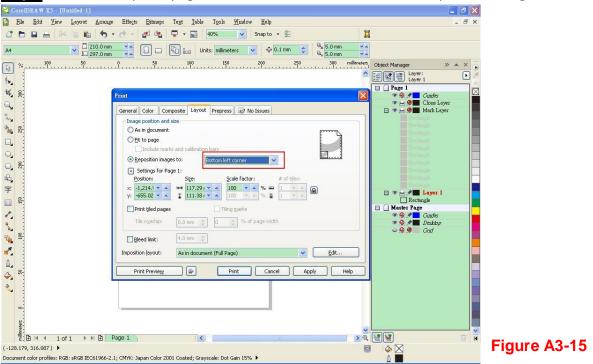
Step 1 Position the paper with registration marks printed by your printer on the GCC cutter. Step 2 Select "Files \rightarrow Print".



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).

1	×			Object Manager >> 🔺 🗙			
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	1	General Color Composite Layout I	Prepress 😥 No Issues	🖃 🐨 📥 🧶 📰 Mark Layer			
tra			Print composite	Rectangle			
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0,	-		O Use color proof settings	Réctangle			
0,	00-	in the second second		Rectangle			
		Color conversions performed by:	Jaguar IV-183 🛛 🗹	Rectangle	_		
В,	2	Output colors as:	RGB	Technick			
字	3			🖂 👁 🛶 🖉 Layer 1			
	8-		Convert spot colors to RGB	Rectangle			
	3	Correct colors using color profile:	(Document) sRGB IEC61966-2.1	🕀 🗋 Master Page			
₹.	2		Preserve RGB numbers	💌 🥺 🔎 Guides			
5	8			G Grid			
-	8-	Rendering intent:	Relative colorimetric				
	3	The color settings and preview ava	ilable in this dialog box are set for the Windows Graphic				
в.	1	🖳 🖳 device printer that you selected on	ilable in this dialog box are set for the Windows Graphic the General tab.				
٥,	3						
	8-	Print Preview	Print Cancel Apply Help		-		
۵,	3						
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Step 2 Go to the "Layout" page and select Bottom left corner at "Reposition images to".

Step 3 Click "Print".

GCC



Illustrator Plug-In Instruction

Puma IV LX cutting plotter features AAS function, but **Puma IV** doesn't. If you are **Puma IV** user, please skip this chapter.

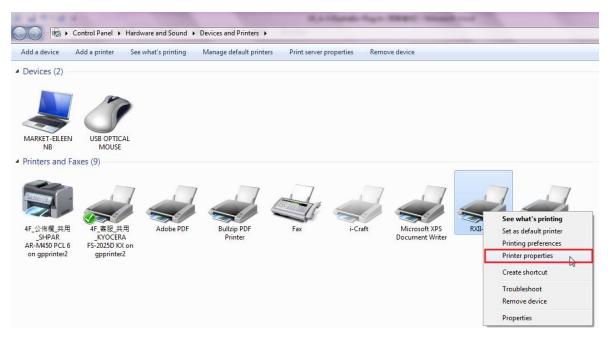
AASII VBA Installer is applicable for Adobe Illustrator Version CS4, CS5, CS6, CC.

Installation

Please refer to Step 8 in Chapter 2.6.1.2 Driver Installation to install AAS plug-in for Adobe Illustrator.

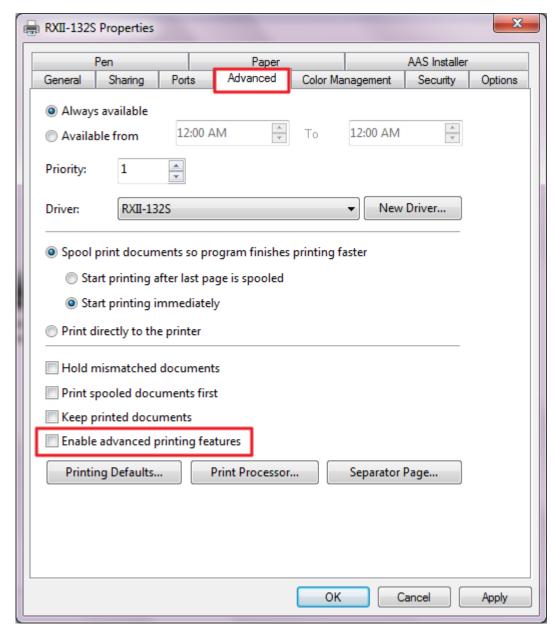
Printer Setting

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



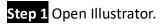


Step 2 Go to the Advanced page and make sure the "Enable advanced printing features" box is unchecked.

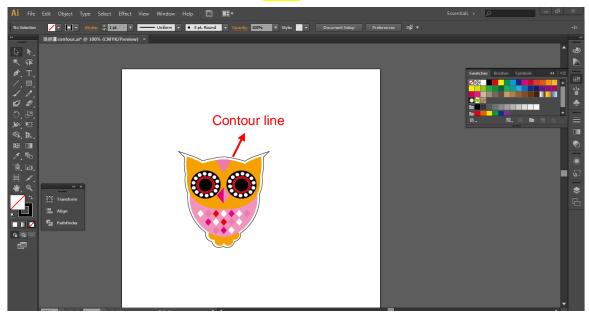




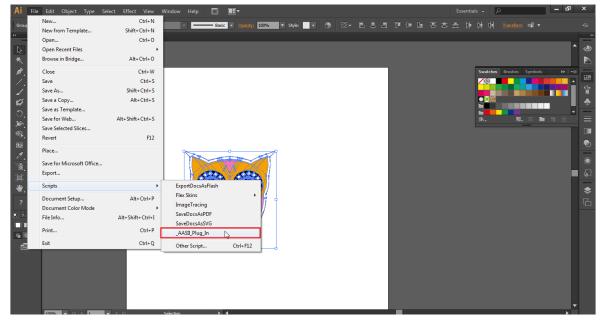
User Instructions



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

WII 🖃 ♥ + 15 📼 08 A-4 Illustrator Plug-In [相容模式] - Microsoft Word			
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	sic ▼ Opacity: 100% ▼ 5t/e: ▼ ② ⊠ ▼ Transform)⊐ □⊉ ▼		
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4			
8 7495 ▼ H < 1 ▼ ▶ H Selection >	·		

Step 5 Three types of registration marks are introduced here: 4-Point Positioning, Segmental Positioning and Multiple Copies.

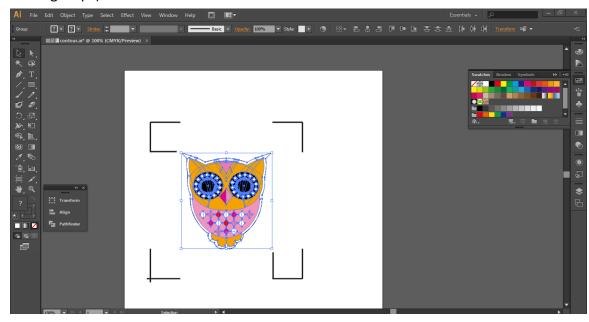
AASII_Reg_Mark_Setting Pro	og v2.10-01
Make by Page size	
✓ 4-Point Poisitioning ↓	
Length(mm): 25	(10~50)
Thickness(mm): 1	(1~2)
Margin(mm): 0	(0~50)
Segmental Poisitioning 🗼	
X Step(mm): 500	(200~600)
Y Step(mm): 500	(200~600)
Multiple Copies ↓	
No. of X Copies: 1	(1~50)
No. of Y Copies: 1	(1~50)
Copies with outline	
Execute Apply	Cancel

Note:

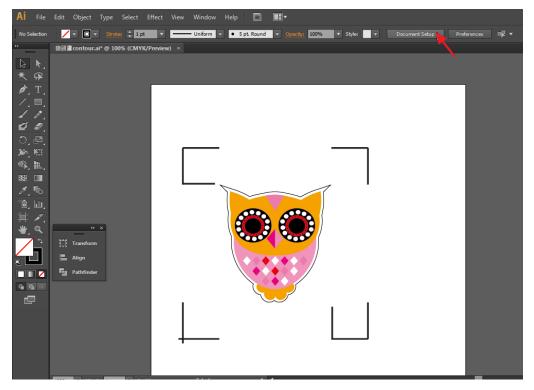
The values entered in the "4-Point Positioning" section (length, thickness and margin) will still be applied when you tick "Segmental Positioning" or "Multiple Copies."



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".

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	Bleed and View Options
	Units: Points Edit Artboards
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	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 🔻
	Double Quotes: "" 🔹 Single Quotes: 🖌 💌
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	Subscript: 58.3 % 33.3 %
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	Export: Preserve Text Editability 🔻
	OK Cancel
	UK Calicei

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

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Artboard	Presets:	Letter 🔹 🛱 🛱 🥫 and Name: Artboard 1
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k . ₩		Fit to Artwork Bounds Fit to Selected Art
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		Legal 1 - Artboard 1
		Tabloid
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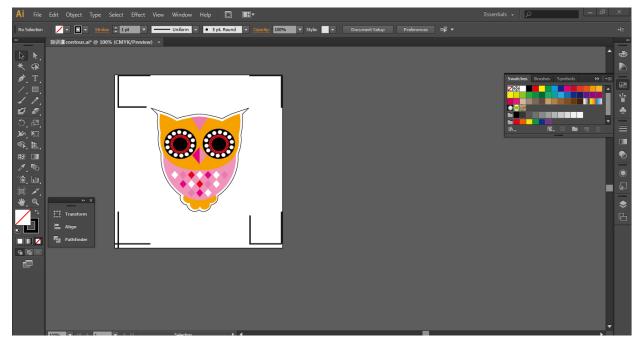




Step 10 Please move your mouse to the tool bar on the left when step 9 is finished and then click "Selection Tool".

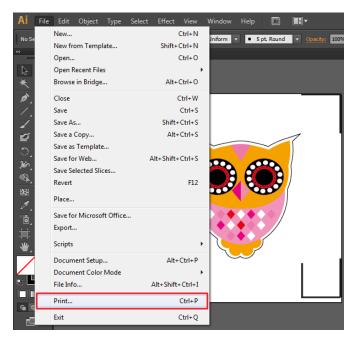


Step 11 This will take you back to the edit mode.





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.

Ai File			Window Help	Br	•		
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Print		
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Media: 7483.46 pt x 3741.73 pt		Tile Range:
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Setup		Done Print Calicel

Step 15 Select the cutter model, position the object in the bottom left corner.

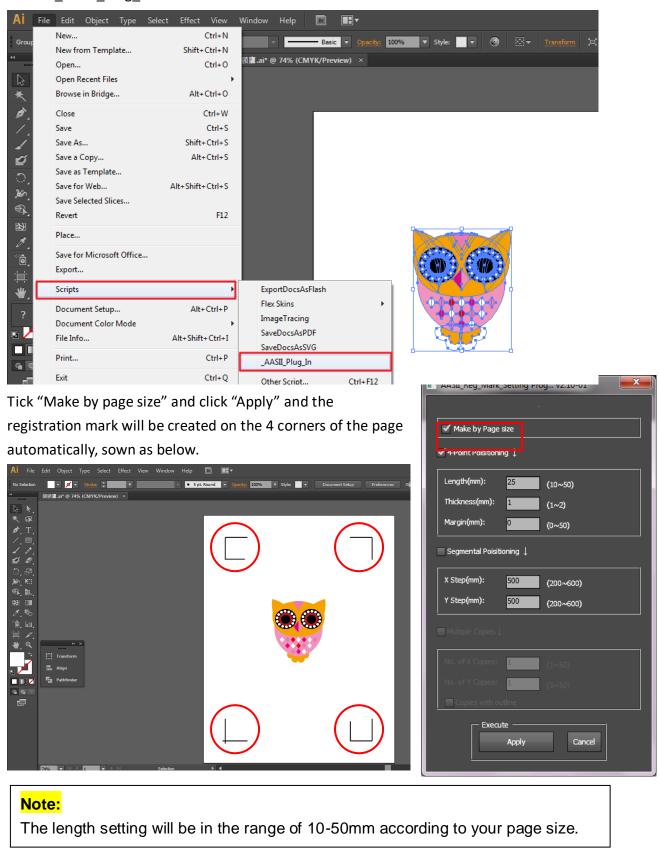
Step 16 Your job is now completed.





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	
Print Pri Pri	eşet: Custom 💙 💾 nter: JaguarIV-101
	PPD:
	General
General Marks and Bleed Output Graphics Color Management Advanced	Copies: 1 Collate Reverse Order Image: Image: Image: Image: Image: Image: Image: Image: Image: Image:
Summary	Media
Left side Top side Bpttom side	Size: Defined by Driver ✓ Transverse Width: 5760 pt Height: 2880 pt @ @ @ @ Options Placement: ☆☆☆ X: 0 pt Y: 0 pt O Do Not Scale O Eit to Page (483.8058%) Custom Scale: W: 100 @ H: 100
Origin Right side	O Ile Full Pages Scale: ₩: 100 Tile Range:
Setup	Print Lavers: Visible & Printable Lavers

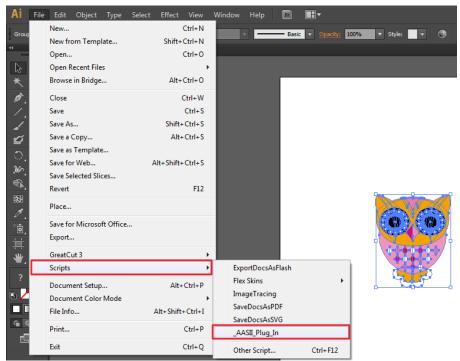
Note: Select "**Edge**" mode when media sizing to allow the media sheet to be unrolled. If you select "**Single**" mode, the media sheet will not be able to be moved back and hence fail to be detected by front paper sensor.



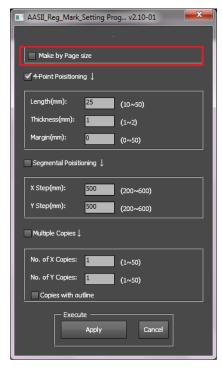
Add Registration Mark by Object

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 Make by Page size 4 Point Poisitioning ↓ Length(mm): 25 (10~50) Thickness(mm): 1 (1~2) Margin(mm): 0 (0~50) Segmental Poisitioning ↓ X Step(mm): 500 (200~600) Y Step(mm): 500 (200~600) Multiple Copies ↓ 	 4-Point Positioning Length: The length of marks → Range: 5mm~50mm → Optimized Setting: 25mm Thickness: The line thickness of marks → Range: 1mm~2mm → Optimized Setting: 1mm Margin: The distance between marks and images → Range: 0mm~50mm → Optimized Setting: 5mm

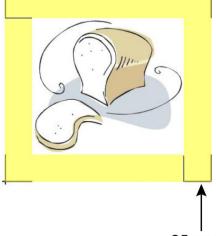
The system will create the 4 marks as shown in the picture below.

AI File	Edit Object Type Select Effect View Window Help 📧 📑 🕶	Essentials -	- 6	^
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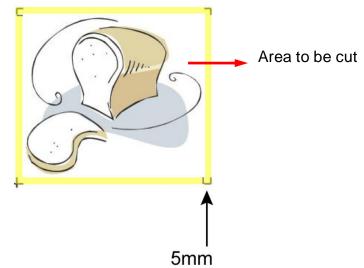


Note:

 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).



25mm



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

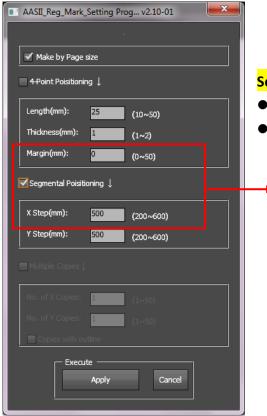
2. The size of the registration marks would affect the accuracy of registration mark detection so please make sure the amount you enter is reasonable.

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



Segmental Positioning

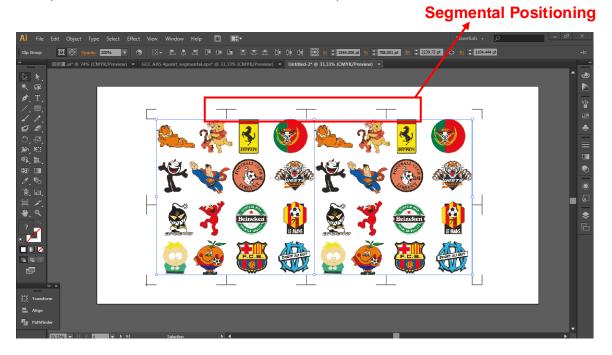
For precise cutting quality, it is suggested to select "Segmental Positioning" when you are working on an extra long or large-sized image to increase cutting accuracy.



Segmental Positioning

- X Step: The distance of intermediate position on the X axis
 - Y Step: The distance of intermediate position on the Y axis
 → Range: 200mm~600mm
 - ightarrow Optimized Setting: Less than 500mm

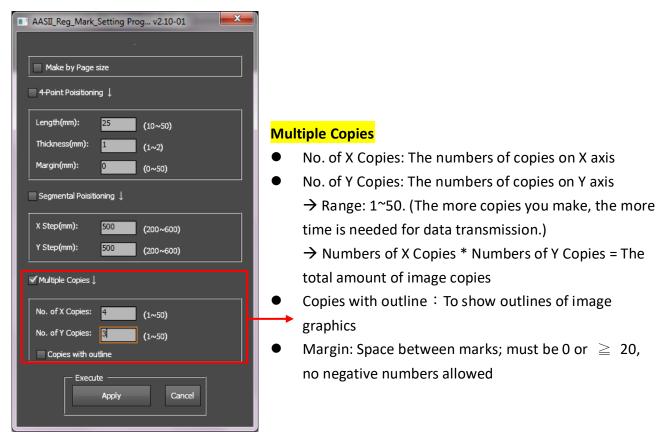
The system will create the marks as shown in the picture below.



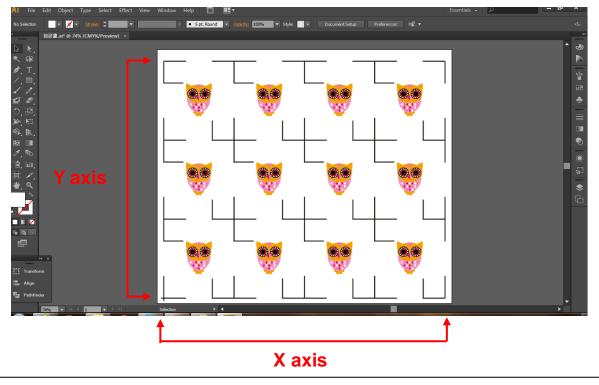


Multiple Copies

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.



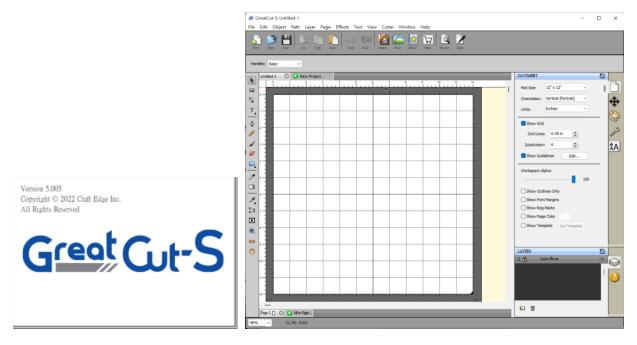


GreatCut-S Quick Manual

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 Size Cas Capy Pize Dado Redo Handles: Basic V Untitled-1 Open New Project 1 3 4 5 9	tter Window Help Mat Size Mat Orientation Preview Cut with GCC Cutter Settings My Cutter	> Ctrl+Shift+P	Manage 0	Cutters	7		
	Tablet Connection		✓ GCC GCC i-Cra	ft Units:	12" x 12" Vertical (Portrait) Inches	~ ~	↓
A 2-15				Change			er



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 My Cutters		
button to add another Brand/Model. Cutter GCC	below. To add another machine, click the Add Add a machine Company/Brand: <unspecified></unspecified> 	Machines you currently have added are listed be button to add another Brand/Model.	elow. To add another Add a machine Company/Brand:	
GCC i-Craft	Model: GCC GCC i-Craft GCC RXII < Add to list GCC RXII-CR	GCC i-Craft	Model:	AR24 AR24
Remove All	Done		< Add to list	Bengal Expert 24 Expert 24LX Expert 52 Expert 52LX Expert 52LX Expert 11 24 Expert 11 52 Expert 11 52LX Expert PRO
		Remove Remove All	_	Jaguar II Jaguar III Jaguar IV Jaguar V
				Jaguar V LX Puma III Puma III DX Puma IV Puma IV LX RX Sable

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



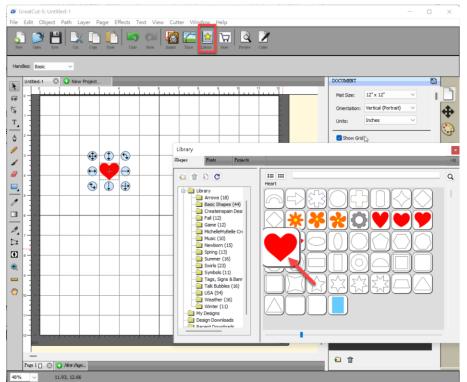
5. If you want to change the material size and orientation, you can fill a proper value in the Document window.

Ι	OCUMENT		N
	Mat Size:	12" x 12" ~	1
	Orientation:	Vertical (Portrait) 🗸 🗸	
	Units:	Inches ~	
-	Show Grid		-
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	🛃 Show Guid	elines Edit	
	Workspace Al	pha:	_
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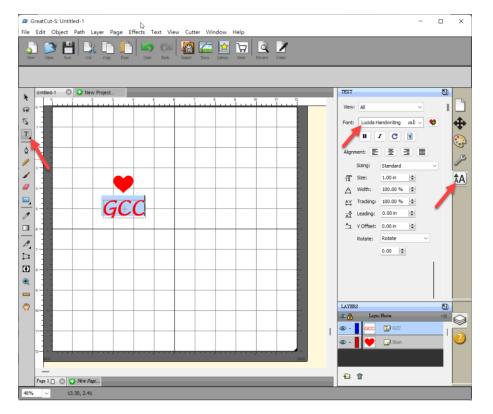
B. Insert Graphics from Library

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.

BreatCut-S: Untit Edit Object New Project Open Project		Layer		Effects	Text	Viev
New Project	Path	Layer		Effects	Text	View
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Close Project			Ctr	l+W		RCOD
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Save Project			Ct	trl+S		_
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Export			Ctrl+Shi	ft+E		
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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.

6 G	FreatCut-S: Untitled-1									
File	Edit Object Path L	ayer Page Effect	s Te	ext Vie	w Cut	ter Wi	ndow	Help		
	New Project	Ctrl+N							2	X
	Open Project	Ctrl+O	ado	Redo	E SVG	Trace	Library	Store	Preview	Cutter
	Close Project	Ctrl+W		Reco	Indexe	11000	Latrosy	State	TICK	Conce
	Close All Projects	Ctrl+Shift+W								
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	Save Project As	Ctrl+Shift+S	5		8	7	8	9	10	11 12
	Revert						+	+	+	
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	Scan2Cut									
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	Share and Get Shapes	>								
	Print Setup		H							
	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.

🔗 Trace Image	
Input Choose an image Cat_girl_kids_cartoon.jpg (1779 x 1118)	Output Output Show Nodes Nodes: 1885 Show Source Image:
Image Settings Mode: Monochrome Contrast (0-100): 194	
Output Settings Smooth (0-100): 80 + Detail (0-100): 98 + Single Line Threshold: 0 + Break Apart Outlines Blackout Add Image Layer (Print+Cut)	Update Preview The preview is currently showing what will be traced. Click the Update Preview button to see trace result.
Restore Settings Save as SVG	Cancel OK

<mark>Note</mark>

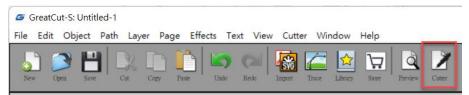
✓ The contrast and pixels of import images will affect the trace image result. High contract graphics are recommended.



Note

F. Cut the Design

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

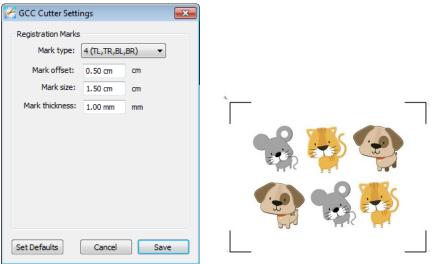


2. Click on "Settings..." to open GCC Cutter Settings window.

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

The origin point is on the bottom right.

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.

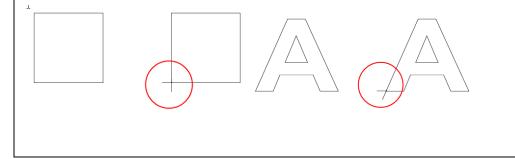
Cut Line Type: Cut Preset: < Custom Cut Preset >	Connection: Port: <au Cut Settings Cut Mode: V</au 	Cut By Color Jar V LX USB ito Detect>	Settings Test Connection Cut selection only Mirror H Mirror V	
Multi-Cut: Off V Quality: Small Letter V Force: 70 g	Preset:	Custom Cut Preset >		
		1.1	_	

*<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.

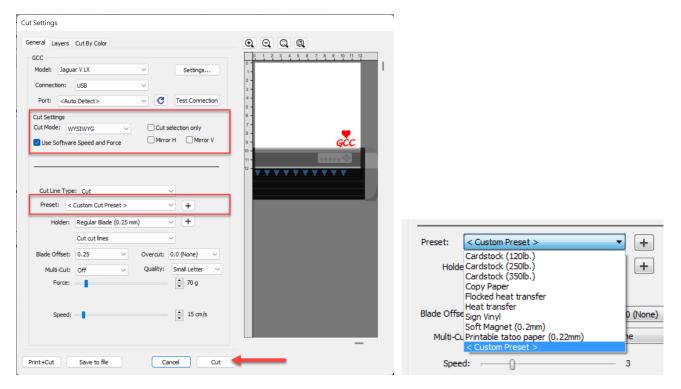
*<u>Multi-Cut</u>: to repeat the cutting job at same position which is suitable for cutting thick material.

*Overcut: 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.

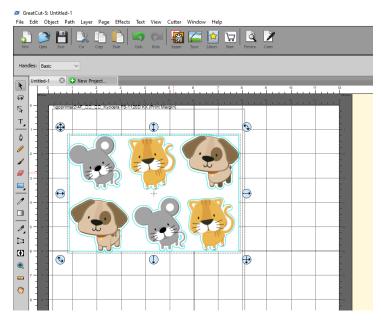
*<u>Speed & Pressure</u>: you may adjust values of speed and pressure manually to get quality results.



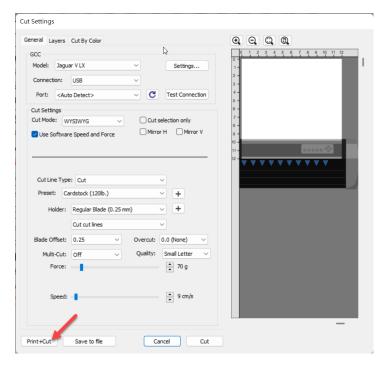
G. Print and Cut Your Design

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.

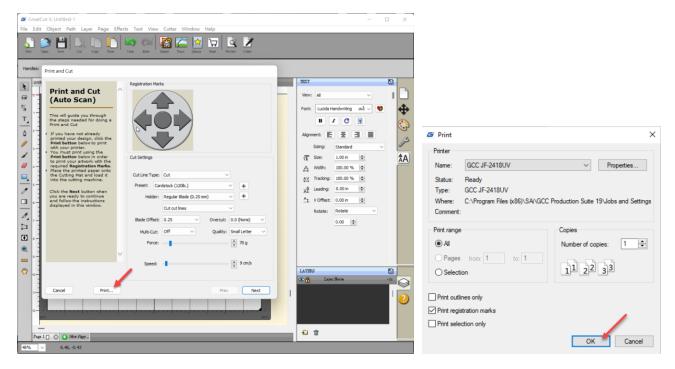


2. Click on the Cutter icon on the toolbar, set the parameters and click on "Print+Cut" to add the registration marks and print out the image.





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

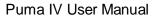


4. Print your design with registration marks out.

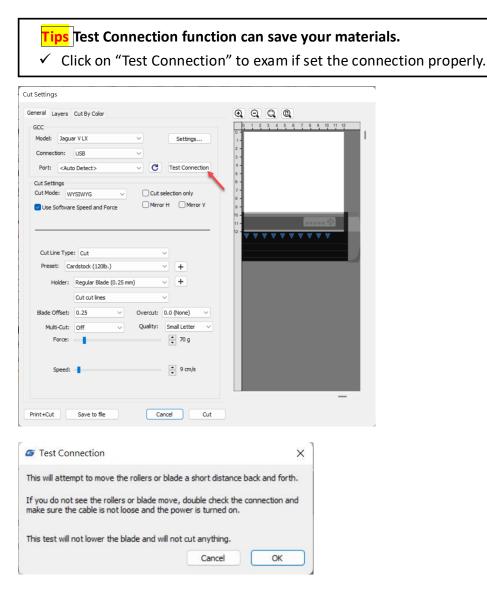


- 5. Load the printed media to the GCC cutter.
- 6. Press "Next" and then press "Scan+Cut", and then the GCC cutter will detect the registration marks and cut the contour lines automatically.

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 If you have not already printed your design, click the print button below in order to print your atwork with the required Registration Marks. Registration Marks You must print using the required Registration Marks. If you have not already printed your design, click the print button below in order to print your atwork with the required Registration Marks. If you have not already print button below in order to print your atwork with the required Registration Marks. Click the Next button when you are ready to continue and follow the instructions displayed in this window. If you have not already pressure: If you have not already pressure: Willb-Cut: Off If	 Scan for Registration Marks Position the Carriage so that registration marks the top-left of the design. Click Scan-Cut to start the Auto Scan. Wuse Software Force & Speed Pressure:
Cancel Print Prev Next	Cancel Print Prev Scan+Cut



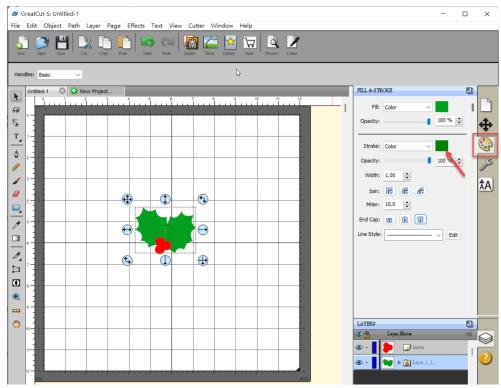






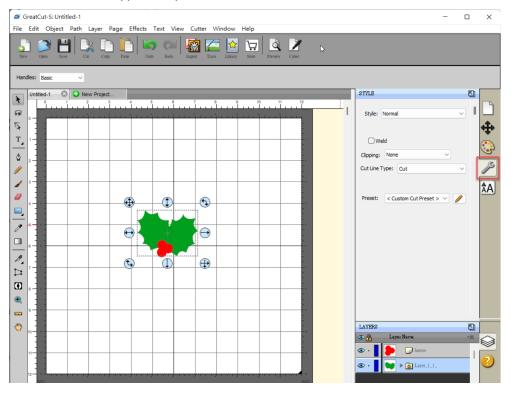
H. Cut by Color

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.

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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.

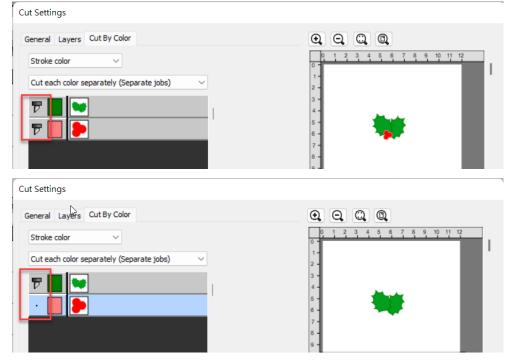
When Cut each color separately is selected, GreatCut-S will prompt you between each color before starting to cut so you can load the appropriate color or corresponding tool into your cutting machine.

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.



5. Click on "Cut" to start cutting.

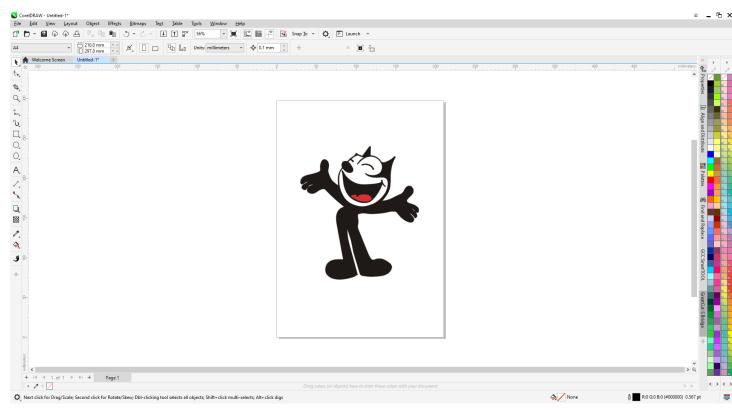
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I. How to create Registration mark in Greatcut-S for contour cutting

Step1 Create a file



Step2 Go to Windows →Dockers →GteatCut-S Bridge

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

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

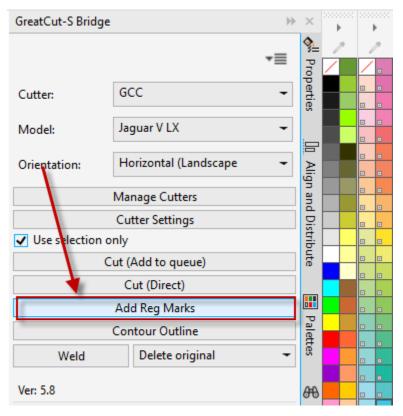
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Step5 The contour line is created.

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

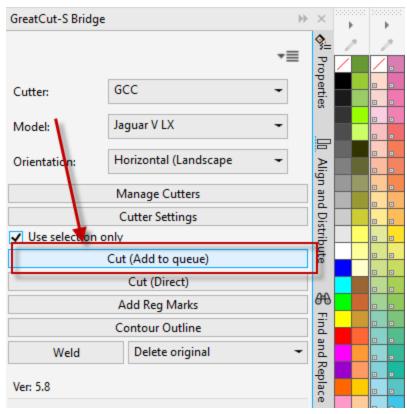




Step7 The registration marks are added.

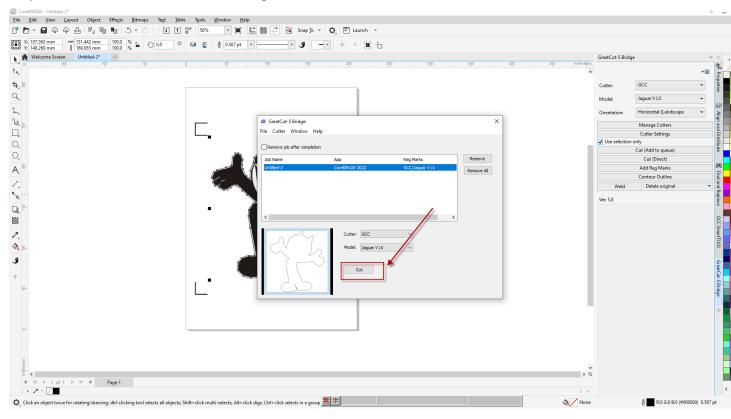
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Step8 Select "Cut (Add to queue)" to send the file.





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



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

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Step11 The process is complete.