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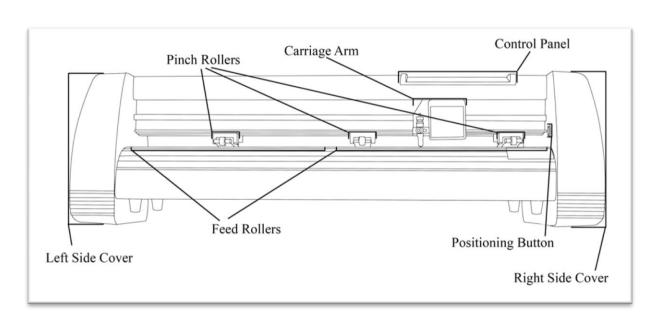
Welcome

Thank you for choosing a MH series cutter from US Cutter. The MH cutters give users the ability to afford a quality entry level cutter while still receiving the durability and dependability needed to move you through all stages of your cutting experience, from beginner to expert alike. This manual is here to help provide a starting point in the learning process of the MH cutters or to vinyl cutting in general. Please read it thoroughly and follow the steps carefully to help insure a trouble free experience with your new machine. If you have any questions along the way, we have provided a few locations to go to get those questions answered. You can post on the US Cutter forums *at forum.uscutter.com*, submit a request for support on the support website *at support.uscutter.com*, or call customer service *at 425-481-3555*. We hope you enjoy your experience with the MH series cutters and the US Cutter family.

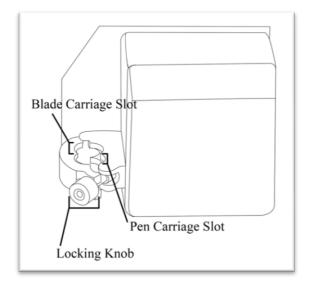
Cutter Parts

Before you start cutting, you should familiarize yourself with the cutter and its basic parts and functions:

Front View

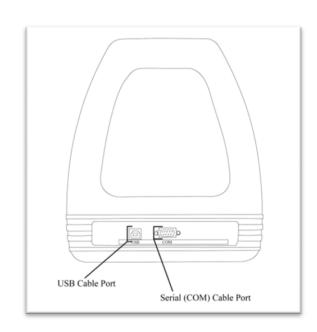


Control Panel	Used to provide input directly to the cutter. Covered in detail in the "Control Panel" (<i>page 8</i>) section of this manual.
Carriage Arm	Holds the Blade (or Pen) Carriage. Shown in detail on page 5.
Pinch Rollers	Holds the media tightly to the feed roller below. <i>Back view shown in detail on page</i> 7.
Feed Rollers	Positions the cutting material during operation.
Positioning Button	Used by the cutter to determine the location of the Carriage Arm.
Left Side Cover	Contains the Power Cable Port, Power Switch and Fuse Cartridge for the cutter. <i>Shown in detail on page 6.</i>
Right Side Cover	Contains the USB and Serial cable ports for the cutter. <i>Shown in detail on page 5</i> .

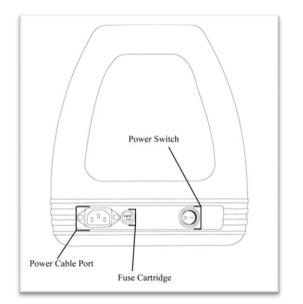


Blade Carriage Slot (Back Slot)	Holds the Blade Carriage in place.
Pen Carriage Slot (Front Slot)	Holds the Pen Carriage in place.
Locking Knob	Allows access to the Blade/Pen Carriage Slots for exchanging/replacing Carriages.

Right Side View

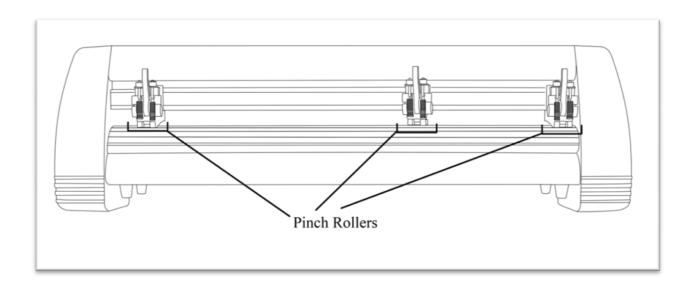


USB Cable Port	Used to connect a USB cable from the cutter to a computer.
Serial (COM) Cable Port	Used to connect a serial cable from the cutter to a computer.
Only one of the connection cables should be used to connect the cutter to a computer. <u>Not both</u> .	

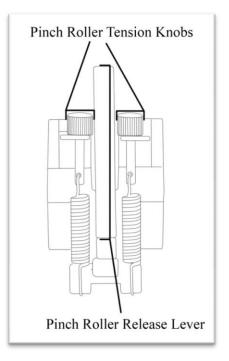


Power Cable Port	Used to connect a power cable from the cutter to a wall outlet or surge protector.
Power Switch	Main power switch for turning the power of the cutter $on(1)$ or $off(0)$.
Fuse Cartridge	Allows access to the fuse inside of the cutter.

Back View



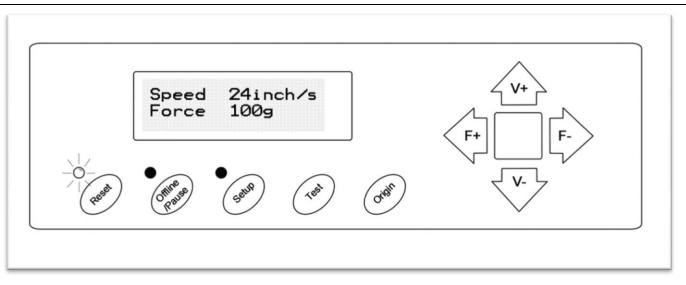
Pinch Rollers	Holds the media tightly to the feed roller below. Back view shown in detail on next
	page.



Pinch Roller Tension Knobs	Adjusts the tension of how tightly the pinch roller is held to the feed roller below.
Pinch Roller Release Lever	Allows you to release Pinch Rollers (either so they can be moved from side to side or to allow media to be easily fed below them) by pulling up on the Release Levers.

Control Panel

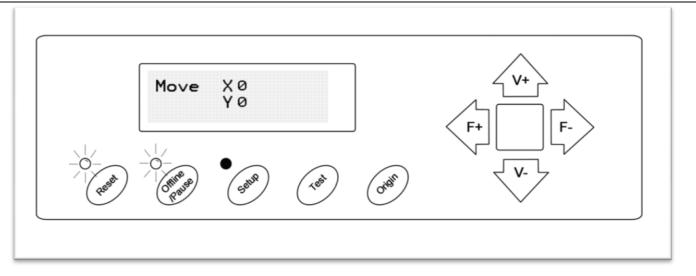
Main Screen



The main screen of the cutter allows you to set the main settings of the cutter including the cutting speed and cutting force options. It also allows you to cut a test pattern or check the amount of force that is currently set.

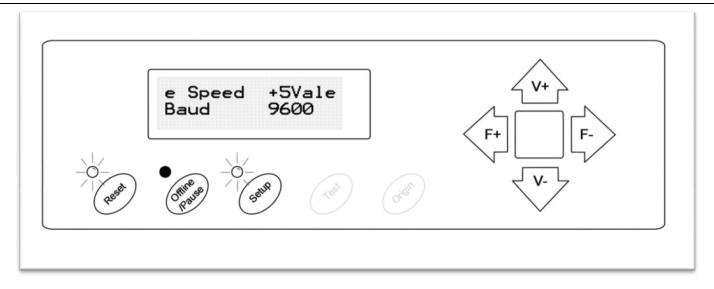
Reset Button	Resets the cutter by setting the Baud rate back to 9600, clearing the memory of the
	machine, and setting the origin of the carriage arm to its rightmost position.
Offline/Pause	Accesses the Offline/Pause mode.
Button	
Setup Button	Accesses the Setup mode.
Test Button	Will cut a small test shape so that the current force and speed settings of the cutter can be tested. You can use this to determine the proper cutting speed and force settings needed for different materials without wasting large amounts of material from cutting full designs.
Origin Button	Shows the current cutting force amount by moving the Blade/Pen carriage down with the current amount of force. This can be useful in determining if the current Force setting is appropriate for the material being used. Press the Origin button with the blade in place and the material underneath the blade to see how much of the material and material backing will be penetrated during cutting.
V+/ V- Buttons	Adjusts the cutting speed. A cutting speed of 16inch/s is a reasonable default speed that can be used for most cuts. When working with smaller and more detailed images, a slower speed may be required. When working with larger and less detailed images, a higher speed can be used to shorten the operation time.
F+/F- Buttons	Adjusts the cutting force. A cutting force of 100g is a good general starting place to work from when trying to determine the force needed for a specific material. All cuttable materials will differ in the amount of force needed so proper testing should always be made to determine the amount of force to use. The amount of force used should be enough to fully penetrate the material to be cut while not enough to cut through the backing material.

Offline/Pause Screen



Offline mode is used to reposition the cutting material and blade so that a new starting position can be set for the next design. Offline mode can also be accessed while the cutter is in operation and will pause the current cutting process. *Although changes can be made to the material and blade positions if Offline/Pause mode is accessed during cutting, making changes to either setting is not normally recommended.*

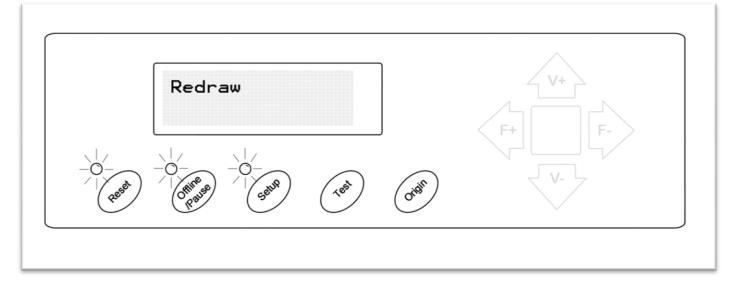
Reset Button	Resets the cutter by setting the Baud rate back to 9600, clearing the memory of the machine, and setting the origin of the carriage arm to its rightmost position.
Offline/Pause	Ignores any changes that have been made to the material or blade positions and exits
Button	Offline/Pause mode, returning the cutter to the main screen. Resumes any cutting that was taking place when Offline/Pause mode was entered.
Setup Button	Accesses Redraw mode.
Test Button	Accepts any changes that have been made to the material or blade positions and exits
	Offline/Pause mode returning the cutter to the main screen. Resumes any cutting that
	was taking place when Offline/Pause mode was entered from the new blade/material
	positions. Same as Origin button.
Origin Button	Accepts any changes that have been made to the material or blade positions and exits
	Offline/Pause mode returning the cutter to the main screen. Resumes any cutting that
	was taking place when Offline/Pause mode was entered from the new blade/material
	positions. Same as Test button.
V+/V-	Repositions the material by moving the feed rollers. After movements are made you can
Buttons	confirm the changes by pressing the $(\sqrt{2})$ or $(\sqrt{2})$ buttons or cancel by pressing the
	Street button.
F+/F-	Repositions the blade by moving the carriage arm. After movements are made you can
Buttons	confirm the changes by pressing the or or buttons or cancel by pressing the button.



The Setup screen allows you to adjust some of the more technical settings of the cutter. *For most users, these settings should not be changed.*

Reset Button	Resets the cutter by setting the Baud rate back to 9600, clearing the memory of the
	machine, and setting the origin of the carriage arm to its rightmost position.
Offline/Pause	Accesses Redraw mode.
Button	
Setup Button	Exits Setup mode and returns to the main screen.
Test Button	Has no function in this mode.
Origin Button	Has no function in this mode.
V+/ V- Buttons	Adjusts the e Speed of the cutter.
F+/F- Buttons	Adjusts the Baud rate of the cutter.

Redraw Screen



Redraw mode will allow you to repeat simple cuts that have recently been sent to the cutter.

Reset Button	Resets the cutter by setting the Baud rate back to 9600, clearing the memory of the
	machine, and setting the origin of the carriage arm to its rightmost position.
Offline/Pause	Exits Redraw mode and returns to Setup mode.
Button	
Setup Button	Exits Redraw mode and returns to Offline/Pause mode.
Test Button	Exits Redraw mode and returns to the main screen.
Origin Button	Starts the Redraw process. If the cutters memory has been recently cleared or if the information of the last cut is too large to be completely stored in the cutters memory than the phrase "Nodata" will be shown on the screen and the cutter will return to the main screen.
V+/ V- Buttons	Has no function in this mode.
F+/F- Buttons	Has no function in this mode.

Setting up

If you are setting up for the first time please take a moment to refer to the Packaging Guide to take account off all the included components and accessories.

For help with Stand Assembly, please refer to the included instructions.

Selecting a Location for Your Cutter

The first step to setting up your cutter is finding a good location for the machine. Consider these factors when you are selecting a suitable place:

You will need to have access to both the front and rear of the machine for operations as well as for loading and unloading new vinyl rolls. Try to find a space with adequate access to both the front and back of the machine.

Since your cutter is a precision cutting device, you will want to find a location that will be stable to insure cutting accuracy. Whether placing the unit on the stand, a floor or a table top, the accuracy of the machine will be directly related to the stability of the platform it is placed on. Find a sturdy floor space or table top for the machine and consider a location that will be out of the way of people and other machines with moving parts while the cutter will be operating. Excessive moving of the machine can not only disrupt accuracy of cutting but may also cause electrical components inside the machine to dislodge and require otherwise unnecessary repairs and maintenance.

Fans located inside of the cutter can draw in outside dust from the area surrounding the cutter. Excessive buildup of dust can cause either mechanical or electronic malfunctions. Keeping the cutter as dust free as possible will help ensure trouble free operation. Try to find an area for the cutter that will be free of any excessive dust and use the supplied cover when not in use.

All cutters will produce a small amount of noise while operating. Please take this into consideration when selecting a location for your cutting purposes.

Do not remove the grounding plug from the power cord or attempt to use the cutter when it has not been properly grounded.

Connecting the Cutter to a Computer

Attach the power cord to the cutter and then plug in the unit and turn on the power.

If Using the a Serial Cable to connect your cutter to a Computer:

If you are using a Serial Cable to connect your cutter to a computer then no further setup is necessary. Simply connect one end of the cable to the cutter and the other end to a computer and setup is complete. If you have more than one serial connection on your computer or you are experiencing communication issues between your cutter and computer then you may wish to verify that the correct COM port is being used in your software setup (see Finding Your COM Port on the next page), but for most users the COM port will be COM1.

If Using the USB Cable to connect your cutter to a Computer:

You will need to install drivers for the USB connection to work properly. These drivers can either be obtained from the supplied drivers disc or downloaded from the support website (*in the downloads section of support.uscutter.com*). *Mac Users will need to download drivers from the support website as the drivers included on the disc are Windows only*.

Windows XP Users:

- 1. Insert the driver disc or download (and unzip if necessary) drivers to your system.
- 2. Connect the USB Cable to your computer and your cutter. The Found New Hardware wizard will appear.
- 3. When asked, "Can Windows connect to Windows Update to search for software?" select "No, not this time" and click next.
- 4. When asked, "What do you want the wizard to do?" select "Install from a list or specific location (Advanced)" and click next.
- 5. Choose the "Search for the best driver in these locations" radio button and check the "Include this location in the search" checkbox. Now type (*or browse to find*) the location of the downloaded drivers/inserted drivers disc and click next.
- 6. When the wizard is complete, click the Finish button.
- 7. The Found New Hardware wizard should appear again. When it does, follow steps 3-6 again for the second driver.

Windows Vista Users:

If you want to use downloaded drivers, download them before starting the install process.

- 1. Connect the USB Cable to your computer and your cutter. The Found New Hardware wizard will appear.
- 2. When told that "Windows needs to install driver software..." select "Locate and install driver software (recommended)".
- 3. If Windows finds and downloads your needed drivers then the process is complete. Repeat the previous steps again for the second needed driver. If Windows does not find and download the needed drivers proceed to the next step.
- 4. If you are going to install the drivers from the disc insert it when advised by Windows. If you are going to use downloaded drivers, select "I don't have the disc. Show me other options."
- 5. Browse to the folder where the drivers are stored and click next.
- 6. When the wizard is complete, click the close button.
- 7. The Found New Hardware wizard should appear again. When it does, follow steps 2-6 again for the second driver.

If you are using another version of Windows or a Mac OS and require specific instructions for installing the drivers, they can be found at: ftdichip.com/Documents/InstallGuides.htm.

Once your drivers are installed you will need to make a note of the COM port that has been assigned to your USB Cable connection.

-Finding Your COM Port

First navigate to the Device Manager by following the below instructions for your operating system:

Windows 95/98/Me Users:

Click Start, then select Settings -> Control Panel.

Select Device Manager.

Windows 2000/XP Users:

Click Start, Then Right-click "My Computer" then select Properties.

Select the Hardware tab.

Click the Device Manager button.

Windows Vista/7 Users:

Click Start, Then in the "Start Search" box, Type "Dev" (without pressing enter); wait for a list to show up.

Click Device Manager.

Expand the section labeled "Ports (COM & LPT)".

Make a note of which number COM Port is associated with "USB Serial Port".

You will need this information to properly install your software.

Installing SignBlazer Software

Insert the SignBlazer Elements CD into your computer.

Select "Run Setup" .

Follow the on screen instructions.

Ignore the warning of only being able to install SignBlazer on one computer. This does not apply since you will be using trial mode and updates are no longer available for the SignBlazer software.

When asked what cutter you want to use, select the model that matches your cutter. If you are using the MH 871 and there is no listing for that model, select the MH 721.

When asked if you want to install the USB driver, select "No" since we have already done so.

When asked what port your cutter uses, select the Port that corresponds with your setup. If using a USB connection you will need to select the COM port that corresponds with your setup (*Noted above from the "Finding Your COM Port" section of the manual*).

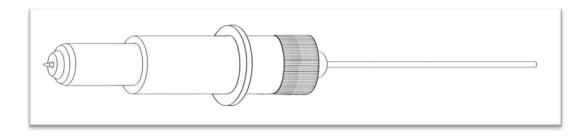
Make sure that your Baud Rate option is set to 9600.

Do not change the, Data Bits, Stop Bits, or Parity options.

Make sure the Flow Control option is set to "Hardware".

Installing the Pen Carriage

Most new users will benefit from practice "cutting" with the supplied pen carriage until they are comfortable with normal operations of the cutter and cutting software.



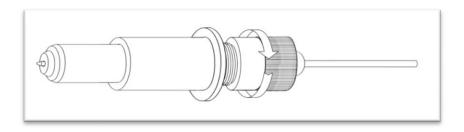
Your Pen Carriage should come assembled and appear as it does in this image. If it does not, please refer to the pen replacement section below for assembly instructions.

To install the pen carriage:

Loosen the locking knob on the carriage arm.	Drop the pen attachment into place in the front slot of the carriage arm.	Tighten the locking knob on the carriage arm.	

To Replace the pen or spring inside of the Pen Carriage:

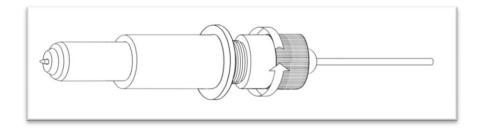
Unscrew the top cap from the Pen carriage.



Remove the top cap, the pen and the spring. Replace the pen and/or spring as necessary. Slide the spring onto the pen from the top and insert it back into the pen carriage.



Replace the carriage cap and screw into place.



Once you are familiar with the cutter and its basic functions, install the blade carriage.

Installing a New Blade

Unscrew the cap from the Blade carriage.	Set Brass Ring on Blade Carriage to the fully down position	Remove the protective cover from a new blade.	Insert the blade into the top of the Blade carriage.	Screw the cap back onto the blade carriage.	Adjust the carriage cap until the blade is protruding approximately 1/64 th of an inch.	Adjust the Brass Ring until it fits snug against the Cap. This will help keep the cap in place during operation.
					1/64*	

Loosen the locking knob on the carriage arm.	Place Blade carriage into the carriage arm.	Tighten the locking knob on the carriage arm.

Replacing a Worn Blade

First remove the blade carriage from the carriage arm,

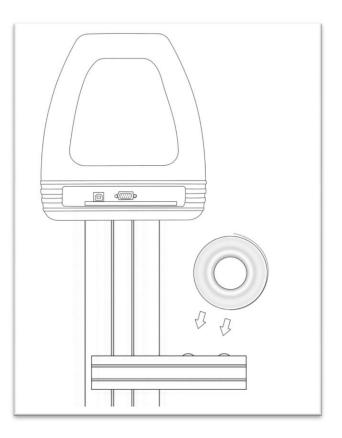
Unscrew the cap of the blade carriage	Press up on the release button (<i>located on the bottom</i> <i>of the blade carriage</i>) to raise the blade and remove it.

Follow the remaining steps from "Installing a New Blade" on the previous page.

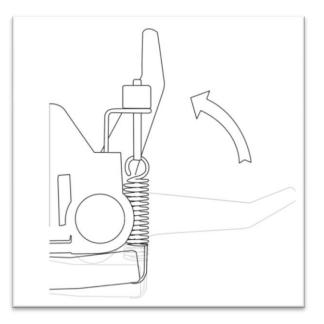
Preparing for Cutting

If you are going to cut from a scrap or single sheet instead of a roll, then skip the next step on placing a vinyl roll. All other steps will be the same.

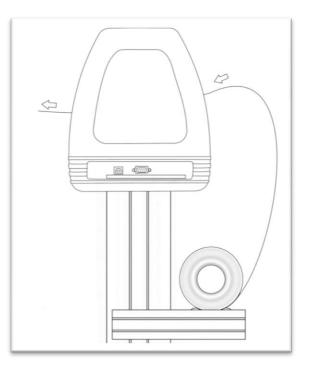
Place the roll on top of the stand rollers.



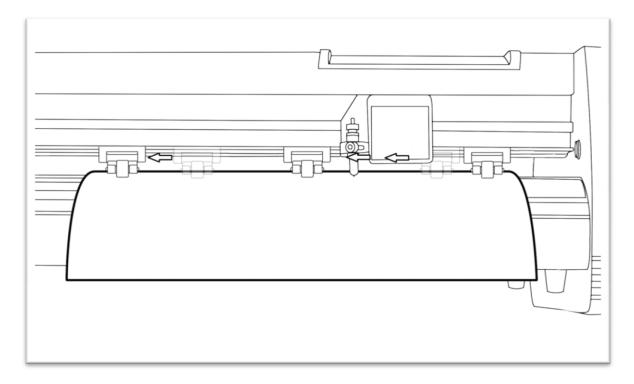
Release the Pinch Rollers by pulling up on the Pinch Roller Release Levers.



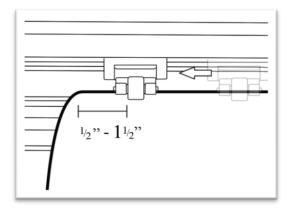
Feed the vinyl underneath the pinch rollers (*if working from a single sheet instead of a roll, the vinyl can also be feed from the front*).



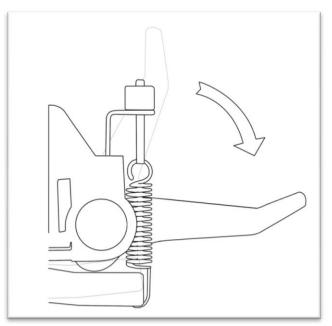
Adjust the pinch rollers so there is one roller located on each side of the vinyl (*and*, *on models with 3 or more rollers*, *one roller near the center*). Avoid lowering a pinch roller to the gap between the two feed rollers.



Leave a gap of between $\frac{1}{2}$ "-1 $\frac{1}{2}$ " from the edge of the roller and the edge of the vinyl on both sides.



Engage the Pinch Rollers by pushing down on the Pinch Roller Release Levers.

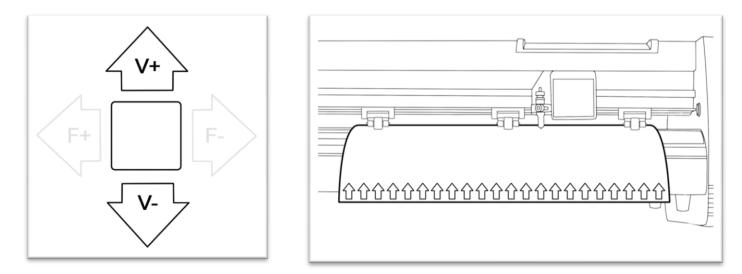


If the cutter is not already on, turn it on now

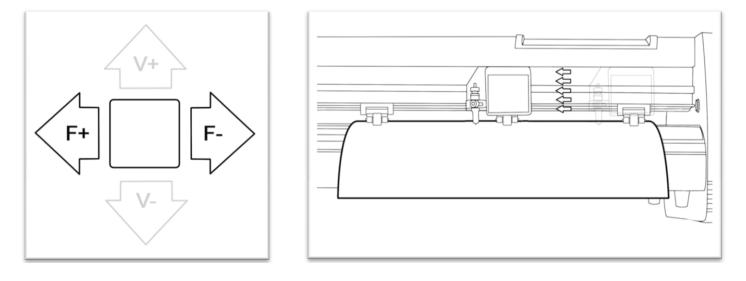
If you would like to change the position of where the cut will be made:

Press the $(\mathcal{A}_{p}^{\text{press}})$ button to enter offline mode.

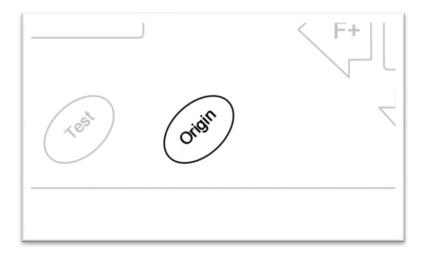
Adjust the vinyl to where you want to make your cut to start by using the Up and Down Arrow Keys on the Control Panel.



Now, adjust the Blade to where you want your cut to start by using the Left and Right Arrow Keys.



Now press the Origin button to tell the cutter that this is the location where you would like the cut to begin.



When choosing a starting location for your design, remember that the process will start in the bottom right area of the design. Please leave enough room to the left of and behind the starting location to finish your cut.

If you would like to make other adjustments to the pressure, speed, or other settings you can do so now. If you are setting up for your first cut with the machine then the default values should be a good starting point.

If you make any adjustments to your cutter, make sure that you return to the main screen before you attempt to cut. If you are unsure how to do this, refer to the Control Panel section of the manual on page 8.

Step By Step Instructions

Starting SignBlazer

Open the SignBlazer Software (The Default location will be in the Programs Folder under "SignBlazer Elements for USCutter").



Navigate to this folder and select "SignBlazer Elements for USCutter".

SignBlazer will attempt to download update files.

弱 SignBlazer LiveUp	date	\mathbf{X}
Downloading updat Please wait while S	e d files etup is downloading updated files to your computer	
File: Speed: Status: Elapsed Time: Remaining Time:	Getting file information	
Current File: Overall Progress:		
		Cancel

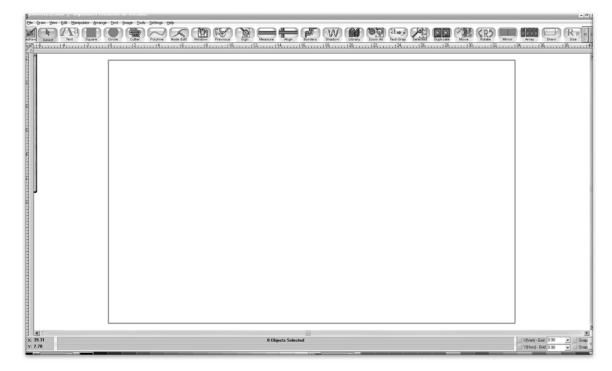
When it fails, cancel the update process (*By Pressing the Cancel button on the error window and then OK on the confirmation window*) and the program will start regularly. To override the update process in the future, refer to the Troubleshooting listing titled "When starting the SignBlazer Software it fails to find updates", located in the Troubleshooting section of the manual (*starting on 35*).

	SignBla	SignBlazer LiveUpdate		
		Error sending request.		
		The server name or address could not be resolved		
		Retry Cancel		
Setup			X	
	File download failed or was cance	elled by the user. SignBlazer LiveUpdate will exit and will not attempt to download fil	es again before tommorow.	
		ОК		

We will be working in Trial Mode. Select "Trial Mode" from the following screen, then select "Yes" from the confirmation window.

ignBlazer Elements		
	BIAZGP AMENIS USC	utter/
Please enter your activat the "Get Activation Code Activation Code:	" below.	sived an activation code select
	nase SignBlazer Elements and e Serial Number then get you	
	SignBlazer Elements in trial to test all the features of the le to purchase.	Trial Mode
You can re-enter your re	gistration details.	Re-enter Registration Details

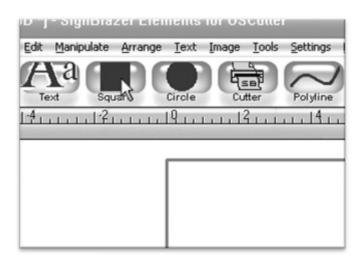
Now SignBlazer is open and you are looking at the main SignBlazer screen.



Making a Simple Cut in SignBlazer

You can create images from scratch using the various tools in SignBlazer. For this tutorial, we will be drawing a simple square just to show the steps of making a cut from SignBlazer.

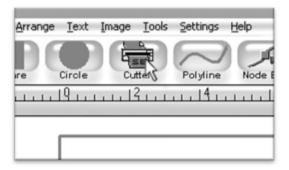
Select the Square tool at the top of the window.



Now draw a square by clicking first in the main window	And then moving the mouse to determine the size of the square desired, and clicking a second time.
Equire Circle Display Edit Window Previous Sign 21.11.11 19.11.11	

Now to cut this simple shape from the cutter:

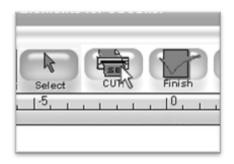
Select Cutter from the top selection menu.



This will take you to the cutter screen of SignBlazer Elements where you can see a representation of how your cut will be made when sent to the cutter as well as various cutter options.

Ope Aem Gelts	40.00		
General Save space			888888
Colors	19/1-13-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	15	12
File Dige File Dige Plane Areas Vag Plane Areas Vag Plane Areas Vag Verage Areas Vag Verage Areas Vag Verage Areas Vag Plane Vag Plane Vag			
	X -2.34 Y 27.61	Title Panel - Size X : 5.08 - Size Y : 5.25 Object size Hostorial	

Since this is a simple cut, no adjustments need to be made here. We can tell the software we are ready to cut by pressing the cut button in the top selection menu...



and then pressing "Cut Tile" in the Cut Tile window:

Cut Tile		×		
Next Tile to Cut:	1	÷		
Tile Size: 0.40	x 0.40			
Pause between tiles				
Move Cutter to:	Hom	e Position		
	Max	mum Pos.		

When you are finished, you can go back to the main SignBlazer screen by pressing the Finish button in the top selection menu.

or USCu	tter	
CUTI	Finis»	Previous

Importing

Drawing images from scratch in SignBlazer may prove to be somewhat different than imaging software that you are more familiar with. If you would rather create the images to be cut in another software or you already have designs finished that need to be cut, then you can just import the finished artwork into SignBlazer and cut from there.

Most major raster and vector image files are supported in SignBlazer Elements including dxf, eps, ai, bmp, tif, gif, pcx, tga, jpg, pcd, pct, psd, cmx, ps, and wmf.

You can import to SignBlazer one of two ways:

Using the Clipboard

You can import from the clipboard by first copying or cutting an image opened from another software program, and then placing it into SignBlazer by selecting Clipboard Paste from the Edit drop down menu.



Images imported via Clipboard Paste may not retain the same dimensions that they held in another software program.

Using the Import Function

You can import an image that has been saved from another program by first selecting Import from the File drop down menu:



Then navigate to the saved file by using the Folder and Drives menus:

<u>F</u> older:	
C:\DOCUMENTS AND SETTINGS\	J
C:\ Documents and Settings Administrator Desktop	1
	4
New Folder	
Drives:	
c:	·

Then Select the image to import,



And select the OK button.



If you are having trouble locating your file, make sure that the file type is selected from the "List Files of Type" menu, or that "All Graphic Files" is selected.

List Files of <u>Type</u> :	All Graphic Files	•
		_

Cutting From an Imported File

If the file imported is already a vector image then it is now ready to cut or be further edited within SignBlazer. If you are ready to cut, you can follow the steps in the previous section "Making a Simple Cut in SignBlazer"(*starting on page 26*).

If the image imported is a raster image then a few more steps will need to be taken to get the file ready for cutting.

Converting a Raster Image to Vector Image

The difficulty of converting a raster image to a vector image will vary greatly depending on the amount of contrast in the image. The portion of the image to be cut should be darker than the background or surrounding area and should have a significant amount of contrast and separation from the rest of the image. If possible, the image should be completely separated from the background and be black in color (though the image we chose for this demonstration has a background and is not completely darkened to demonstrate that the process is possible with a variety of images).

First make sure that the image has been properly imported into SignBlazer and that the image is selected.

You can tell an image is selected when it shows a border and square bounding boxes around its parameter.



With the image selected, select "Monochrome -1 bit" from the Mode section of the Image drop down menu.

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Scan Select Source	10
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	Indexed - 4bit
ImageCut	Indexed - 8bit
	Grayscale
	🖸 🧱 RGB Color - 24bit

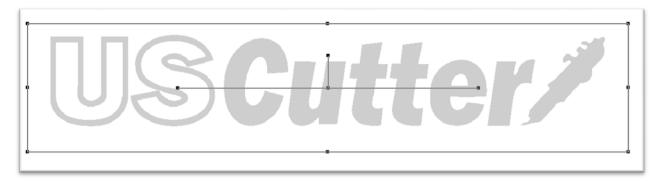
Sometimes an imported image will already be in monochrome but will still need to be vectorized before being cut. If the image imported is monochrome than you can skip ahead to the "vectorise" section.

The "Convert Image to monochrome" window will appear.

Threshold Level	50		ок
4		Þ	Cance Help

Now you can adjust the Threshold Level slider. Where you place the slider will determine how much of the image will be included in the monochrome conversion (*which is to become the image that will be cut*). Anything darker than the level set on the Threshold slider will be included in the cut and anything lighter will not.

Since we chose an image with good contrast and separation for our example this process will be easy. We simply check that our image to be cut shows up in light grey or black and that there are no areas of the background or other parts of the image that are unnecessarily included.



Now press the OK button on the "Convert Image to monochrome" window.

Now to convert a monochrome image to a vector, select "Vectorise" from the Image drop down menu.

Image Tools Settings Help	
Scan Acguire	
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Mode +	ļ
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And press the OK button on the Vectorise Image window.



You are now left with 1 monochrome image and 1 vectorized image. This may be difficult to see as they are probably layered directly on top of one another. If you grab one image and drag it you will see the other image left behind. You can now delete the monochrome image that has been left behind as it is no longer needed.



The cutting process for a vectorized image is the same as it is for cutting a simple image. You can now follow the steps from the "Making a Simple cut in SignBlazer" section of this manual *(starting on page 26)* to make your cut.

Specifications

MH721(25 inch model) - 28.3 inches (720mm) MH871(33 inch model) - 34.2 inches (870mm) MH1351(50 inch model) - 10.8 inches (275mm) MH1351(20 inch model) - 10.8 inches (275mm) MH1351(21 inch model) - 10.8 inches (630mm) MH1351(21 inch model) - 44.8 inches (630mm) MH1351(50 inch model) - 49.6 inches (1260mm)Cutting Speed4-48 Inches per second (100-1200 mm per second) In 4 inch per second (100mm per second) incrementsPressure Range10-400g In 10g incrementsMaximum Cutting Thickness.039 inches (1mm)Buffer Capacity1-4mCPUI8 bit CPUICarriage Positions1 blade slot and 1 pen (plotter) slotCutting StripDouble sheet (soft sheet and plastic sheet)Motor8 tepper MotorMinimum Character MatrixApproximately .2 inches (5mm) highBlade TypeRoland Cemented Carbide bladesPlotting PenAll 11.4-mm diameter plotting pensDisplay Panel8 digits x 2 line LCDCommunications InterfaceUSB (Universal Serial Bus) and RS-232 Serial (9 pin)Power Requirements90 – 260 VACRepeatability0.127 mmMechanical Resolution0.0254mm/stepCommands SetDMPL/HPGL; automatic identificationEnvironmental Temperature0-35° CEnvironmental Temperaturesupport@USCutter.comEnvironmental Temperature50° CWOnline Technical Supportsupport@USCutter.comBuffer Technical Supportsupport@USCutter.comBuffer Technical Supportsupport@USCutter.comBuffer Technical Supportsea SteppeneBuffer Techni		
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Customer Service/Technical Support Line425-481-3555; Available 7am - 5pm, Mon-FriOnline Technical Supportsupport.uscutter.com E-mail: support@USCutter.comCustomer Forumsforum.uscutter.comManufactured For and Sold Directly ByScutter/ 19510 114th Avenue NE, Suite C-1 Woodinville, WA 98072 425-481-3555 phone 888-640-0720 fax	Environmental Temperature	0-35° C
Support LineImage: Support LineOnline Technical Supportsupport.uscutter.com E-mail: support@USCutter.comCustomer Forumsforum.uscutter.comManufactured For and SoldUS Cutter/ 19510 114th Avenue NE, Suite C-1 Woodinville, WA 98072 425-481-3555 phone 888-640-0720 fax	Environmental Humidity	5%-65% (without condensation)
Online Technical Supportsupport.uscutter.com E-mail: support@USCutter.comCustomer Forumsforum.uscutter.comManufactured For and SoldUSCutter/Directly By19510 114th Avenue NE, Suite C-1 Woodinville, WA 98072 425-481-3555 phone 888-640-0720 fax	Customer Service/Technical	425-481-3555; Available 7am - 5pm, Mon-Fri
E-mail: support@USCutter.comCustomer Forumsforum.uscutter.comManufactured For and SoldUSCutter/Directly By19510 114th Avenue NE, Suite C-1Woodinville, WA 98072425-481-3555 phone888-640-0720 fax	Support Line	
Customer Forumsforum.uscutter.comManufactured For and SoldUS Cutter/Directly By19510 114th Avenue NE, Suite C-1Woodinville, WA 98072425-481-3555 phone888-640-0720 fax	Online Technical Support	
Manufactured For and SoldUSCutter/Directly By19510 114th Avenue NE, Suite C-1Woodinville, WA 98072425-481-3555 phone888-640-0720 fax		
Directly By 19510 114 th Avenue NE, Suite C-1 Woodinville, WA 98072 425-481-3555 phone 888-640-0720 fax 888-640-0720 fax	Customer Forums	
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425-481-3555 phone 888-640-0720 fax	Directly By	19510 114 th Avenue NE, Suite C-1
888-640-0720 fax		Woodinville, WA 98072
		425-481-3555 phone
www.USCutter.com		www.USCutter.com

Troubleshooting

Problem	Solution
The cutter is unresponsive to communications from the computer and software.	Communication issues can arise if the cutter was powered on while the software is trying to send data to the cutter. Exiting the cutter screen of SignBlazer and returning to the main SignBlazer screen may resolve this issue. If not, save all work and try exiting SignBlazer and restarting with the cutter powered on. It is good practice to start SignBlazer with the cutter powered on to avoid communication problems.
	Make sure that your output device in SignBlazer is set to the correct COM port (Found by selecting File>Cutter from the menu on the main SignBlazer screen, and then selecting Setup from the top menu buttons). Your COM port can be found by following the instructions in the "Finding Your COM Port" section of this manual on page 14. You can change your COM Port by right-clicking on the COM Port in the device manager and going to the advanced section of the Port Settings tab.
	Adjust your Flow Control settings to Hardware by first locating your COM Port in the device manager (<i>By following the instructions on page 14</i>), then right-click the COM Port and select Properties. On the Port Settings tab, change to Flow Control option to Hardware.
The cutter performs erratically during cuts, stops cutting before the cut is finished, or cuts lines that do not appear in the design.	Some computers do not work well when connected via the USB port of the cutters. If you are having problems while cutting and are using the USB cable to connect from your cutter to computer, you may wish to try the serial cable connection to avoid further problems. If a serial cable connection is not available on your computer, you can try a third party USB to serial connecter or a PCI card serial adapter for your computer.
When starting the SignBlazer Software it fails to find updates.	This is a regular occurrence of the SignBlazer software and should not be considered a problem. All features of the software will continue to work in trial mode without updates. To deactivate the update process, redirect the SignBlazer shortcut (<i>of either the desktop icon or start menu selection that you use to open the</i> <i>SignBlazer software</i>). Right-click it and select Properties. From the Properties menu, change last section of the Target option from "sb.exe" to "sbnt.exe". Press the Apply button, then the OK button. This will bypass the update process.

After the first cut is made,	After a cut is made, you will need to reset the origin of the cutter.
subsequent cuts are made over	If the origin is not set again, the first origin will remain in the
the top of the original, or vinyl	cutter and the cutter will return to this position before making any
is fed backwards until it loses	further cuts. To reset the origin; from the main screen of the
contact with the rollers.	cutter, press the Offline/Pause button on and then press the
	Origin button.
Cuts are jagged or inconsistent.	The Blade may be dulled or damaged. Replace with a new blade
	and try again. Make sure that the blade can turn freely (by
	attempting to turn it with your fingers while the release button of the Blade
	Carriage is pressed).
	Adjust the blade depth of the Blade Carriage (<i>page 17</i>) and Force
	setting on the cutter (page 8) until you are getting solid, uniform
	cuts. Start with a blade depth of around $1/64^{th}$ of an inch and a
	pressure setting of 100g and try an increased pressure setting
	before attempting to increase the blade depth.
Slashes are made across the	If the blade is protruding too far from the Blade Carriage then it
vinyl from the blade movement	can score and cut material during normal operations. If this is
-	e 1
during cutting.	occurring, the blade needs to be adjusted so that it is protruding a
	minimal distance from the carriage. <i>See the instructions on page 17</i> .
Vinyl not feeding straight and	Sometimes, during shipping or movement of the machine, the right
the rightmost Pinch Roller will	pinch roller will become stuck on a screw located on the back of
not move.	the machine. If this occurs and is affecting your cutting, press
	forcefully against the pinch roller until it becomes dislodged from
	its position. If needed, remove the screw to reposition the pinch
	roller in the desired position.
Cuts are warped and	Sometimes, during shipping or movement of the machine, the
inconsistent.	Carriage Arm can be dislodged from its track. Make sure that the 2
	white wheels behind the carriage arm are both resting securely on
	top of (<i>not in front</i>) of the track. If the wheels are not on the track,
	gently lift the carriage arm and press back until both wheels are
	resting on the track.
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Other troubleshooting solutions may be found by visiting the Customer Forums or Technical Support Website, or by calling the Technical Support Line (Web page addresses and Phone number on the specifications page, 34).

