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Thank you for purchasing the Silhouette Digital Craft Cutter!

### Warning

Only computers or peripherals (computer input/output devices, terminals, printers, etc.) certified as complying with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules, may be attached to this product when this product is operated in a residential environment. Operation with non-certified peripherals is likely to result in interference to radio and TV.

### Federal Communications Commission Radio Frequency Interference Statement

"This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help."

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# CHAPTER 1. PRIOR TO USE

# 1.1 Check All the Items

Referring to the list below, check to confirm that all the components are included with your product. If any item is missing, please contact your place of purchase.



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# **1.2 Silhouette Parts and Functions**

# Silhouette Digital Craft Cutter



Cutting head Clamp bracket	Drives the blade holder/pen holder to the left or right Holds the blade holder/pen holder and drives it up or down
Standby switch	Turns the power supply to the Silhouette on and off. When the power supply is on, the switch's lamp lights blue.
Feed knob	Used to manually feed the media back and forth
USB interface connecto	)r
	Used for connecting the USB cable
AC adapter jack	Used for connecting the AC adapter cable
Cutting strip	Cutting or plotting is performed on this surface
Pinch rollers	Hold the media in place against the media rollers
Media rollers	Move the media back and forth
Front guide	Used as the work surface
Guideline	Used as a guide when media is loaded

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# CHAPTER 2. CONNECTION AND PREPARATION

# 2.1 Connecting and Turning on the Power

Use the AC adapter and the power cable provided with the Silhouette to connect the AC adapter jack on the Silhouette to an AC outlet of the rated voltage, and then turn on the power.

CHECKPOINT Always connect the AC adapter to the AC adapter jack before connecting the power cable to the AC outlet.

- (1) Connect the power cable (included with the AC adapter) to the AC adapter.
- (2) Plug the AC adapter cable into the AC adapter jack of the Silhouette.
- (3) Plug the other end of the power cable into the AC outlet.



(4) Press the standby switch to turn on the power.When the Silhouette is in power-on status, the lamp on the switch is lit blue.When the Silhouette is in power-off status, the lamp on the switch is extinguished.



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# 2.2 Connecting to a Computer

The USB interface connectors are used to connect the Silhouette to a computer. Use the USB cable provided with the Silhouette to connect the Silhouette to a computer.

TO USE

• The software for the Silhouette must be installed before the Silhouette is connected to a computer. (See Chapter 3.3, "Installing the Controller".)

• Do not connect the USB cable until instructed to do by an on-screen prompt.

The USB cable has different plug shapes on the computer side and the Silhouette side. Always check which plug connects to which side.



**CHECKPOINT** • Do not connect more than one Silhouette to a computer.



# 2.3 Loading Media

### Media loading method

(1) Press the standby switch to turn on the power, and confirm that the lamp on the standby switch is lit (blue).



(2) Load the sheet in the Silhouette.

Align the left edge of the sheet with the vertical guideline indented on the front guide. Place the top edge of the sheet against both pinch rollers, making sure that the sheet is straight.

**CHECKPOINT** If a sheet wider than 8.5 inch is loaded, the guideline will be covered by the sheet. However, if the sheet is loaded so that its top edge touches and is parallel to both the pinch rollers, it will be straight.



If you are using media that is not letter size, please follow the instructions given below.

#### • If the media size is smaller than letter size

Use the cutting mat. (Please see Section 2.4, "Cutting Mat".)

#### • If the media width is between 8.5 and 10.25 inch

If the width of the sheet is between 8.5 and 10.25 inch, the only types of media that can be loaded are vinyl film or tack paper.

#### • If the media length is between 11 and 39 inch

The accuracy specification is guaranteed for sheets that measure 8.5 x 11 inch, but if the media is film (with a thickness of 0.0039 inch or less, and 0.012 inch or less including the backing sheet (liner)), lengths up to 39 inch can be loaded.



(3) Turn the feed knob in the direction toward the rear of the Silhouette to feed the sheet until its top edge is aligned with the rear edge of the cutting strip, or with the indented guideline located next to the cutting strip.



If the top edge of the sheet curls up and catches on the Silhouette, turn the feed knob in the direction toward the rear of the Silhouette to align the top edge of the sheet with the indented guidelines located behind the cutting strip. Please note, however, that the cutting area will be reduced by 0.2 inch in the media feed direction.





#### Allowable cutting area

Make sure that your design fits within the allowable cutting area. The allowable cutting area varies according to the size of the media and the mode you select.

#### If the media size is smaller than letter size

Use the cutting mat. (See Section 2.4, "Cutting Mat".)

#### If the media is letter size

Standard mode: The width of the allowable cutting area is 7.4 inch. Expanded mode: The width of the allowable cutting area is 7.8 inch. If registration marks are used, the allowable width is 7.4 inch.

• To change the mode from Standard to Expanded or vice versa, click "Properties" in the "Print" window and then select the desired mode in "Margin Settings" on the "Basic Settings" tab. The default setting is "Standard" mode.

• Align the left and right edges with the vertical guidelines, making sure that the sheet is straight.



#### If the media width is between 8.5 and 10.25 inch

Even if the width of the sheet is larger than 8.5 inch, the allowable width is the same as that for an letter size sheet (7.7 inch in Standard mode and 7.8 inch in Expanded mode). Standard mode: The width of the allowable cutting area is 7.4 inch. Expanded mode: The width of the allowable cutting area is 7.8 inch. If registration marks are used, the allowable width is 7.4 inch.

• To change the mode from Standard to Expanded or vice versa, click "Properties" in the "Print" window and then select the desired mode in "Margin Settings" on the "Basic Settings" tab. The default setting is "Standard" mode.

• Align the left and right edges with the vertical guidelines, making sure that the sheet is straight.

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If the media length is between 11 and 39 inch

Standard mode: The width of the allowable cutting area is 7.4 inch.

Expanded mode: The width of the allowable cutting area is 7.8 inch.

If registration marks are used, the allowable width is 7.4 inch.

- To change the mode from Standard to Expanded or vice versa, click "Properties" in the "Print" window and then select the desired mode in "Margin Settings" on the "Basic Settings" tab. The default setting is "Standard" mode.
  - Align the left and right edges with the vertical guidelines, making sure that the sheet is straight.



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# 2.4 Cutting Mat

PREFACE

### Using the cutting mat

The cutting mat allows media smaller than letter size and media without a backing sheet (liner) to be cut.

CHECKPOINT

• Always be sure to use the cutting mat when cutting right through media.

- The cutting mat is reusable, and so it can be used repeatedly. When its adhesive power becomes weak, however, replace it with a new cutting mat.
- The cutting mat is a consumable.
- Pulling on the cutting mat to remove it from the Silhouette may shorten its lifetime or cause misaligned cutting. Be sure to use the feed knob to remove the media. (If you use the Eject Media function, the media will automatically be ejected to the front of the Silhouette after the cutting operation has been completed. For further details, please refer to the ROBO Master User's Manual.)

#### Using the cutting mat for media with a width of 7.4 inch or smaller

CHECKPOINT Do not use media smaller than postcard size (4 x 6 inch).

(1) Peel off only the inside liner of the cutting mat, so that the adhesive surface is visible. (Do not peel off the liner strips on both sides.)



(2) Press the media onto the adhesive surface of the cutting mat.

• When pressing the media onto the adhesive surface, be careful not to cause air bubbles or wrinkles in the media.

• Make sure that the edges of the media are parallel to the edges of the cutting mat.



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Using the cutting sheet for media from 7.5 to 8.5 inch in width (equivalent to letter size)

**CHECKPOINT** Do not use media that is wider than 8.5 inch with the cutting mat.

(1) Peel off the inside liner and the liner strips on both sides of the cutting mat, so that the entire adhesive surface is visible.



Peel off the inside liner and the liner strips on both sides of the cutting mat.

- (2) Press the media onto the adhesive surface of the cutting mat.
  - When pressing the media onto the adhesive surface, be careful not to cause air bubbles or wrinkles in the media.
    - Make sure that all of the media is pressed down.
    - Make sure that the edges of the media are parallel to the edges of the cutting mat.





### Allowable cutting area of the cutting mat

The allowable cutting area of the cutting mat is shown in the diagram below. When using media smaller than letter size, always affix the media within the allowable cutting area. In addition, make sure that the edges of the media are parallel to the edges of the cutting mat.

**CHECKPOINT** Do not use media smaller than postcard size (4 x 6 inch).





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# 2.5 Adjusting and Mounting the Blade Holder

The blade adjustment cap controls the blade length. To obtain optimum cutting results, select the blade adjustment cap for the blade holder to suit the type of media to be cut.



Caution When handling the cutter blade, take care not to cut your hands.



The blade holder consists of a holder to which a cap containing a blade is attached. The length of the blade protruding from the cap can be adjusted by selecting one of the three available blade adjustment caps.

Select the blade adjustment cap best suited for the media you plan to use.



### Blade adjustment caps and media selection

Select and attach the blade adjustment cap best suited to the media you plan to use. To prevent damage to the cutting strip, the length of the blade protruding from the cap should not exceed the thickness of the media.

Caution When handling the cutter blade, take care not to cut your hands.

#### Selection guide for blade adjustment caps

Сар	Media	Protruding blade length (approx.)
Blue	Thin film	0.1 mm
Yellow	Thick film, thin media	0.2 mm
Red	Thick media and cardstock	0.3 mm



### Changing the blade adjustment cap

To prevent damage to the cutting srip, the length of the blade protruding from the cap should not exceed the thickness of the media.

**Caution** When handling the cutter blade, take care not to cut your hands.

The blade adjustment cap is a screw-on type.

- (1) Turn the cap in the counterclockwise direction to remove it.
- (2) Replace it with the correct blade adjustment cap.
- (3) Turn the cap in the clockwise direction to tighten it.



Assuming that the media thickness is "t", as shown in the figure below, the blade length " $\ell$ " should be equal to or slightly greater than "t". Make sure that " $\ell$ " is never greater than the combined thickness of the media and its backing sheet. If it is not possible to accurately determine the media thickness, perform a cutting test for each blade adjustment cap in the order of blue, yellow, and red. The most suitable cap is the one where only faint traces of the blade appear on the backing sheet after the cutting test has been performed.





### Mounting the blade holder

Mount the blade holder that has had its protruding blade length adjusted (by selecting the most suitable blade adjustment cap) in the Silhouette.

**Caution** When handling the cutter blade, take care not to cut your hands.

**CHECKPOINT** Be sure to grip the clamp bracket firmly when mounting or removing the blade holder.

(1) Turn the lock lever to the left (OPEN direction) to loosen the clamp bracket.



If you are using media that does not require the cutting mat, mount the blade holder while making sure that the protrusion on the holder faces the front and that it is aligned with the notch in the clamp bracket.

If you are using the cutting mat, turn the protrusion on the holder 90 degrees to the right so that it fits against the protrusion on the clamp bracket.



(2) Firmly insert the blade holder in the clamp bracket and then turn the lock lever to the right (CLOSE direction) to tighten the clamp bracket.



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# 2.6 Mounting a ballpoint pen

### Acceptable ballpoint pens

PREFACE

The ballpoint pen holder accepts the following pen types:

- (1) Cylindrical ballpoint pens: Up to 0.3 inch in diameter
- (2) Hexagonal ballpoint pens: Up to 0.2 inch side-to-side
- (3) The tips of both pen types must extend between 0.1 and 0.13 inch past the ballpoint pen holder's opening.



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### Mounting the ballpoint pen

Mount a ballpoint pen into the ballpoint pen holder and then mount the ballpoint pen holder in the Silhouette's clamp bracket.

CHECKPOINT When mounting the ballpoint pen holder, always align it with the notched part of the clamp bracket.

- (1) Loosen the thumbscrew on the ballpoint pen holder by turning it counterclockwise.
- (2) Insert the ballpoint pen into the holder.
- (3) Confirm that the tip of the ballpoint pen protrudes 0.1 0.13 inch from the holder.
- (4) Tighten the thumbscrew by turning it clockwise.
- (5) Turn the lock lever to the left (OPEN direction) to loosen the clamp bracket.
- (6) Mount the ballpoint pen holder in the clamp bracket while making sure that the protrusion on the holder faces the front and that it is aligned with the notch in the clamp bracket.



(7) When the pen holder has been mounted, turn the lock lever to the right (CLOSE direction) to tighten it.





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# 2.7 Troubleshooting

#### Thick or dense media like a photo paper is not cut all the way through

•Try cutting the paper twice. To ensure that the Silhouette cuts in exactly the same spot, do not touch the paper between cuts.

#### The blade no longer cuts cleanly

- If dirt or dust has adhered to the blade, remove the blade adjustment cap and then remove any dirt from around the blade.
- Start up the Controller, select the "Adjust Settings" check box, and then increase the value by one in the "Thickness" direction.



- Replace the cutter blade with a new one.
- Wipe the cutting head shaft with a lint-free cloth.



An abnormal noise is generated with the power is turned on, and the cutting head does not move smoothly.

• Wipe the cutting head shaft with a lint-free cloth.

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# CHAPTER 3. CONTROLLER

The Controller is a program that is used to perform all the basic settings such as selection of the Media Type and Silhouette operations such as test cutting.

**CHECKPOINT** The term "media" as used in this manual refers to paper, film, and other materials to be cut.

# 3.1 System Requirements

The minimum system requirements to run the software are as follows.

- OS: Windows 2000 or Windows XP
- CPU: Pentium III 600 MHz or better
- Memory: 128 MB minimum (256 MB recommended)
- Monitor: Must be capable of 1024 x 768 High Color display (True Color recommended)
- Mouse
- CD-ROM drive

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# **3.2 Installing the Controller**

This section describes how to install the software. Do not connect the Silhouette to your computer until instructed to do so by an on-screen prompt.

Caution
 Do not connect the Silhouette to your computer until instructed to do so by an on-screen prompt.
 If the Controller has already been installed, select "Control Panel" → "Add or Remove Programs" and then uninstall the program before performing the setup operation.

### Starting up the [Start] window

Insert the CD-ROM included with the Silhouette into your computer. The [Start] window shown below will be displayed. If this window is not displayed, open "My Computer" and double-click "CD Drive". If the "Start" window still does not appear, click on the Start Menu and select "Run..." from the Run window,



click "Browse" and locate the Silhouette CD-ROM. Select the file file "Setup.exe" and click "Open." Click "OK."

When the "Start" window opens, follow the screen prompts to launch the Install Shield Wizard. There are three parts to the installation: the Main Software, the Controller and the Driver. The Wizard will guide you through the installation of each section.

• CHECKPOINT Be sure to close any open Windows applications before installing this software.

When the installer of ROBO Master is finished or cancelled, the installer of the Craft ROBO Controller will be started up.

### Installing the Controller

(1) When the installer starts up, the screen shown below is displayed first.

Setup	
	Welcome to the InstallShield Wizard for Craft ROBO Controller The InstallShield® Wizard will install Craft ROBO Controller on your computer. To continue, click Next.
	<back next=""> Cancel</back>

Click [Next] to proceed.



(2) Next, a "Choose Destination Location" screen will be displayed.



Select the folder in which the Controller is to be installed.

Unless the folder shown by default does not have sufficient free space, it is normally not necessary to change it. If there is no need to change the default folder, click [Next] to proceed.

(3) Next, a "Select Program Folder" screen will be displayed.

u may type a new	v folder
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Select the program folder in which the program icon is to be placed.

To place the program icon in a new folder, enter a new folder name in "Program Folders." To add the program icon to an existing folder, select one from the list of "Existing Folders." A new folder named "Craft ROBO" is prepared by default. If there is no need to change the default folder, click [Next]. File copying starts.

(4) When the system has finished copying files, a "Setup Complete" screen is displayed indicating that installation is complete. Click [Finish] to complete the installation.

Setup	
	InstallShield Wizard Complete Setup has finished installing Craft ROBO Controller on your computer.
	K Back Finish Cancel

The system will then proceed to install the "Craft ROBO" driver. Follow the Help instructions displayed on the screen.

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# 3.3 Starting up the Controller

Press the Standby switch on the Silhouette to turn on the power, and check that the standby switch lamp is lit (blue).

Check that the Silhouette and your computer are connected by a USB cable.



The Controller can be started up in either of the following two ways:

- (1) Starting up from the Windows [Start] menu The Craft ROBO Controller can be started up from the Windows [Start] menu. To start it up, select "Start" → "(All) Programs" → "Craft ROBO" → "Craft ROBO Controller".
- (2) Starting up from Craft ROBO-compatible software (such as ROBO Master)
  - (a) Click [Craft ROBO] in the File menu of ROBO Master.



(b) The "Output to Craft ROBO" window will open. Click [OK] to start up the Controller. When the Controller is started up from the ROBO Master software, the [Cut] button is displayed, enabling output from the Controller.

Out	tput to Cr	aft ROBO	×
	Craft ROBO -		
	Name:	Graphtec Craft ROBO	
	Port:	USB001	
F	Cogies: Page Range I All C Erom:	1 1 io: 1	
	(	Cancel	

#### CHECKPOINT

The above procedure is an example using the ROBO Master software. The Craft ROBO can also be started up from other compatible software applications. Please refer to the user's manual provided with each software application for the start-up procedure.



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(c) When the software is started up, a window similar to the one shown below is displayed.



Caution The Controller settings may be performed automatically by the software that is used to start up the Controller. In this case, the parameters that can be selected may differ from those shown in the above window.

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# 3.4 Controller Operations

This section describes the Controller's main functions and operating procedures.

# Cutting your design

PREF/

To perform cutting using the Silhouette, the sequence of operations shown below must be performed: [Create data (a design)]  $\rightarrow$  [Make the cutline settings]  $\rightarrow$  [Cut]

The [Create data (a design)] and [Make the cutline settings] operations are performed using the Silhouette software.

When these operations have been completed, follow the steps below to cut out the design.

- (1) Turn on the power to the Silhouette, and check that the Standby switch lamp is lit (blue).
- (2) Start up the Controller (See Section 3.3," Starting up the Controller".)
- (3) Select your media type from the "Media Type" drop-down box. (See "Media Type" in Section 3.5, "Controller Settings".)
- (4) Replace the blade adjustment cap on the blade holder with a cap in the color that is displayed in the "Blade Adjustment Cap" indicator. (See "Blade Adjustment Cap" in Section 3.5, Controller Settings".)
- (5) Adjust the cutting conditions.

Select the "Adjust Settings" check box, and then perform test cutting to determine the optimum conditions by changing the "Speed", "Thickness", "Blade Adjustment Cap" and other settings. (See "Blade Adjustment Cap", "Adjust Settings", and "Test Cut" in Section 3.5, "Controller Settings".)

- (6) Set the Design Orientation by referring to the illustration of the plotter in the upper right corner. (If the Controller is started up from ROBO Master, the Design Orientation is set automatically.) (See "Design Orientation in Section 3.5.)
- (7) Load media in the Silhouette.
- (8) If required, change the origin by using the "Blade Position" and "Set Origin" buttons. (See "Blade Position" and "Set Origin" in Section 3.5, "Controller Settings".)
- (9) Click the "Cut" button to start cutting. (See "Cut" in Section 3.5, "Controller Settings".
- (10) If cutting is not performed correctly, adjust the cutting conditions.
  Select the "Adjust Settings" check box, and then perform test cutting to determine the optimum conditions by changing the "Speed", "Thickness", "Blade Adjustment Cap" and other settings. (See "Blade Adjustment Cap", "Adjust Settings", and "Test Cut" in Section 3.5, "Controller Settings".)

# Printing your design on a printer, and then using the Silhouette to cut it

To cut out a printed design using the Silhouette, the sequence of operations shown below must be followed: [Set Registration Marks]  $\rightarrow$  [Create data (a design)] [Make the cutline settings]  $\rightarrow$  [Print]  $\rightarrow$  [Cut]

The [Set Registration Marks] ( [Create data (a design)] ( [Make the cutline settings] ( [Print] operations are performed using the Silhouette software. When these operations have been completed, a design will have been printed together with registration marks. Follow the steps below to cut the design.

- (1) Turn on the power to the Silhouette, and check that the Standby switch lamp is lit (blue).
- (2) Start up the Controller (See Section 3.3," Starting up the Controller".)

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- (3) Select your media type from the "Media Type" drop-down box. (See "Media Type" in Section 3.5, "Controller Settings".)
- (4) Replace the blade adjustment cap on the blade holder with a cap in the color that is displayed in the "Blade Adjustment Cap" indicator. (See "Blade Adjustment Cap" in Section 3.5, "Controller Settings".)
- (5) Adjust the cutting conditions.

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Select the "Adjust Settings" check box, and then perform test cutting to determine the optimum conditions by changing the "Speed", "Thickness", "Blade Adjustment Cap" and other settings. (See "Blade Adjustment Cap", "Adjust Settings", and "Test Cut" in Section 3.5, "Controller Settings".)

- (6) Set the Design Orientation by referring to the illustration of the plotter in the upper right corner. (If the Controller is started up from ROBO Master, the Design Orientation is set automatically.) (See "Design Orientation" in Section 3.5.)
- (7) Load media in the Silhouette.
- (8) Check that the "Registration Marks" check box has been selected. (See "Registration Marks" in Section 3.5, "Controller Settings".)
- (9) Click the "Cut" button to start cutting. (See "Cut" in Section 3.5, "Controller Settings".)
- (10) If cutting is not performed correctly, adjust the cutting conditions.
  Select the "Adjust Settings" check box, and then perform test cutting to determine the optimum conditions by changing the "Speed", "Thickness", "Blade Adjustment Cap" and other settings. (See "Blade Adjustment Cap", "Adjust Settings", and "Test Cut" in Section 3.5, "Controlle Settings".)

#### < The Search Marks function>

Two steps are required to read the registration marks.

- (a) The Silhouette searches for the first registration mark, which will become the reference registration mark, and makes it the origin point. (The first registration mark is the registration mark at the bottom left of the design. It is shown as a green square in the illustration of the plotter in the Controller.
- (b) Using the first registration mark as the reference registration mark, the Silhouette checks the second and third registration marks.

# Note: If the Silhouette failed to read the first registration mark in (a) above, the general registration mark position can be specified manually (see steps (11) to (13) below.

- (11) Deselect the "Registration Marks" check box, and then use the "Blade Position" function to move the pen to the position of the first registration mark (the registration mark at the bottom left of the design). It is shown as a green square in the illustration of the plotter in the Controller. (See "Read Marks" in Section 3.5, "Controller Settings".)
- (12) Click the "Read Marks" button to start manual reading of the registration marks. (See "Read Marks" in Section 3.5, "Controller Settings".)
- (13) When the registration marks have been read correctly, click the "Cut" button to start cutting. (See "Cut" in Section 3.5, "Controller Settings".)

#### **Test Plotting**

To reduce media waste, we recommend that you do a test plot when using cutting data for the first time or when you have changed the data. Test plotting allows you to visually confirm, by plotting the cutlines with a ballpoint pen, that the cutting data will be output correctly as the specified solid and folding lines.

- (1) Turn on the power to the Silhouette, and check that the Standby switch lamp is lit (blue).
- (2) Start up the Controller (See Section 3.3,"Starting up the Controller".)

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- (3) Select your media type from the "Media Type" drop-down box. (See "Media Type" in Section 3.5, "Controller Settings".)
- (4) Mount a commercially-available ballpoint pen in the provided ballpoint pen holder and then mount the pen holder in the Silhouette.
- (5) Set the Design Orientation by referring to the illustration of the plotter in the upper right corner. (If the Controller is started from ROBO Master, the Design Orientation is set automatically.) (See "Design Orientation" in Section 3.5.)
- (6) Load media in the Silhouette.
- (7) If required, change the origin by using the "Blade Position" and "Set Origin" buttons. (See "Blade Position" and "Set Origin" in Section 3.5, "Controller Settings".)
- (8) Click the "Cut" button to start cutting. (See "Cut" in Section 3.5, "Controller Settings".)

#### Performing a test cut and creating a Media Type setting

When creating a Media Type setting, the appropriate cutting conditions must be found by adjusting the media settings and performing a test cut.

- (1) Turn on the power to the Silhouette, and check that the Standby switch lamp is lit (blue).
- (2) Start up the Controller from the Windows [Start] menu. (See Section 3.3," Starting up the Controller".)
- (3) Select your media type from the "Media Type" drop-down box. (See "Media Type" in Section 3.5, "Controller Settings".)
- (4) Use the "Blade Position" function to move the blade to the position where you want to perform a test cut. (See "Blade Position" in Section 3.5, "Controller Settings").
- (5) Select the "Adjust Settings" check box, and then perform test cutting to determine the optimum conditions by changing the "Speed", "Thickness", "Blade Adjustment Cap" and other settings. (See "Blade Adjustment Cap", "Adjust Settings", and "Test Cut" in Section 3.5, "Controller Settings".)
- (6) Click the "Add Media" button, specify the media name and the color of the blade adjustment cap, and then click the [OK] button. Your newly-created setting is added to the "Media Type" list. (See "Add Media" in Section 3.5, "Controller Settings".)



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#### **Controller Settings** 3.5

When the Controller is started up, the following screen appears.



#### Hide/Show the operation guide

	When the Controller is started up, an operation guide is displayed at the bottom of the window. The [Hide/Show the operation guide] button turns the operation guide function on/off. Use the [Previous] and [Next] buttons provided within the operation guide to display the screens in succession and check the current settings for each parameter. Follow the step-by-step instructions for easy Silhouette setup and operation.
Animated Instructions	Click to display animated instructions describing the operation of the "Silhouette" and the "Controller".
About	Click to display the version information of the Controller currently in use.
Help	Click to display Quick Help descriptions of the various Silhouette functions.
Cancel	Click to exit the Controller.
Cut	Click to start cutting with the Silhouette. When the automatic reading of registration marks is specified, the registration marks are read first. When the registration marks have been read successfully, the Silhouette starts cutting.
Media Type	Use this drop-down box to select the type of media to be cut.
	Media Type Thick Media

Media Type	Thick Media			
	🔲 Adjust Settings	Add Media		
	Speed: 10 Slow 💽 Thickness: 27 Thin 💽	1	10 Fast 33 Thick	Test Cut
👗 Blade adjustr	Track Enhancing ment cap : Mount the Yellov	v cap on the blade ho	older.	

The following 8 Media Type parameters are provided:

- Card without Craft Paper Backing
- Card with Craft Paper Backing
- Vinyl Sticker
- Film Labels
- Magnetic Sheet

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- Thick Media: Select this parameter when using Kent paper (inkjet, laser or similar paper).
- Thin Media: Select this parameter when using standard paper.
- Pen: Select this parameter when a ballpoint pen has been mounted in the Silhouette. The ballpoint pen is primarily used for test plotting before cutting.
- Blade Adjustment Cap .. The Blade Adjustment Cap indicator shows the most suitable blade adjustment cap color for the media that has been selected from the "Media Type" drop-down box. Attach the blade attachment cap in the color shown to the blade holder before cutting that media.



Only the tip of the blade protrudes from the blade holder. The blade adjustment cap color controls the blade length (the protruding length varies according to the color of the cap). The color selection is mostly determined by the thickness of the media to be cut.

Adjust Settings ............ If the results of the test cutting indicate that the conditions need to be adjusted, select the "Adjust Settings" check box. As shown in the screen below, "Speed", "Thickness", "Test Cut" and "Add Media" are displayed. These parameters are disabled when the "Adjust Settings" box is not checked.



Speed ...... Specifies the cutting speed.



Selecting "Fast" increases the cutting speed, and selecting "Slow" reduces the speed. The slower the cutting speed, the higher the cutting quality. The speed can be adjusted in 10 steps.

Note: If a value of 31 or higher has been specified for "Thickness", the speed will be reduced in order to maintain an acceptable quality level.

Media Type	Thick Media	▼	
	Adjust Settings	Add Media	
		1 10	
SI	Speed: 10 Slow 🔳	► Fast	
87		1 33	Test Cut
	Thickness: 27 Thin 🔳	🔄 🕨 Thic	
۸	🔽 Track Enhancing		
Riada adjustr	nent can : Mount the Vellow (	cap on the blade holder	

33 levels can be specified.

Note: If a value of 31 or higher has been specified for "Thickness", the speed will be reduced in order to maintain an acceptable quality level.



**Track Enhancing** ......... Track enhancing refers to the action of moving the media back and forth several times before cutting is started to improve the quality of cutting. It is performed automatically when the thickness exceeds a certain value.

Media Type	Thick Media		<b>•</b>	
	Adjust Settings	Add Media		
	Speed: 10 Slow	1	10	
8	speed. To slow <u>·</u>	] ,1	33	Test Cut
$\sim$	Thickness: 27 Thin 🔳		Thick	
*	🔽 Track Enhancing			
Blade adjust	ment cap : Mount the Yello	w cap on the blade ho	older.	

Keep this function on during normal use. If you need to shorten the cutting time, this function may be turned off provided you have verified that cutting is performed normally.

Test Cut ..... Perform test cutting to check the cutting quality.

Media Type	Thick Media		•	
	Adjust Settings	Add Media		
	Speed: 10 Slow 💻	1	10 Fast 33	Test Cut
	Thickness: 27 Thin 💻		▶ Thick	
*	🔽 Track Enhancing			
Blade adjustm	ent cap : Mount the Yellov	v cap on the blade hold	ler.	

Use the [Blade Position] buttons to move the blade to the position at which test cutting is to be performed, and then click the [Test Cut] button. A 1cm x 1 cm test pattern will be cut. The cutting conditions are appropriate when the results of test cutting indicate that the media is cut cleanly with faint traces of the blade on the backing material (liner or carrier sheet). If cutting has not been performed correctly, such as when the backing material itself is cut or uncut areas of film remain, change the blade adjustment cap to one of a different color. Alternatively, change the "Media Type" parameter or change the "Thickness" setting.

CHECKPOINT

- The quality of the cutting results will vary, depending on the type of media to be cut and on other factors.
- If you plan to cut media that you have never used before, always be sure to perform test cutting first.

Add Media ...... Click the "Add Media" button to open the "Add Media" window.



A custom media type can be created by entering its settings and name.

Media Type New Media	OK
Speed: 10 Slow 1	10 Fast



Blade Position ...... Use these buttons to move the position of the blade or the pen (ballpoint pen) mounted in the Silhouette.



When the left-hand or right-hand buttons are pressed, the blade or the pen (ballpoint pen) is moved to the left or right. When the up or down buttons are pressed, the media is moved. Clicking the [Use Keyboard] button allows the arrow keys on the keyboard to be used in the same way as the [Blade Position] buttons.

Set Origin ...... Use this button to specify the origin point of the cutting area.



After moving the blade or pen (ballpoint pen) to the desired origin point using the [Blade Position] buttons, click the [Set Origin] button to specify the current position as the origin. This function cannot be used (is not required) when registration marks are used for positioning.



Landscape orientation

Portrait orientation

W €(-

If the origin point has not been specified, and Landscape has been selected for the media orientation, the origin point is located in the vicinity of the red circle in the left-hand diagram. If Portrait has been selected for the media orientation, the origin point is located in the vicinity of the blue circle shown in the right-hand diagram.





CHECKPOINT

The "Set Origin" function cannot be used when the "Registration Marks" check box has been selected.



**Design Orientation** ...... Select "Landscape" for a design where the media is positioned horizontally and "Portrait" where the media is positioned vertically. The orientation is automatically set when output is performed from the ROBO Master.

Design Orientation		
🖲 Landscape 🔿 Portrait		

If you change your selection, the illustration in the Controller also changes





Landscape orientation

Portrait orientation

**Registration Marks**...... Select the "Registration Marks" check box when you want to cut a design that has been printed out on a printer.

Registration Marks				
🔲 Search Registration Mark				
Distance Between Registration Marks				
Width:	10.313	inch		
Length:	7.479	inch		
C mm 🖲 inch				
Registration mark reading				

If ROBO Master was used to start up the Controller, this parameter is automatically selected and cannot be changed. This setting is used for cutting a printed design that has registration marks already printed around it. When the "Registration Marks" check box is selected, the reading of registration marks is enabled.

#### **Search Registration Marks**

Registration Marks				
🔽 Search Registration Mark				
Distance Between Registration Marks				
Width: 10.313 inch				
Length: 7.479 inch				
C mm 🔘 inch				
Registration mark reading				



Keep this function on (check box selected) during normal use. When the Search Marks function is on, the registration marks are automatically searched for and read right before cutting. When the registration marks are read normally, cutting is performed.

The registration marks may not be automatically found if they are not located in the areas that are normally used for printing registration marks. In this case, deselect the Search Marks checkbox and perform manual reading of the registration marks. (See "Read Marks" in this section for details on how to perform manual reading of registration marks.)



#### **Notes on Registration Marks**

Registration marks are reference marks that are used to align the plotter's cutting position with an image that was printed out on a printer. Registration marks are printed along with the design, and the Silhouette reads them with its registration mark sensor to ensure alignment of the printed image and the cutline. The registration marks are shaped like the corners of a rectangle and are printed around the design at three of the four corners.

Vertical distance between registration marks	Horizontal distance between registration marks	-
Origin point	-	

CHECKPOINT

- When registration marks are used, avoid placing them on or in the vicinity of the printed image wherever possible.
- When registration marks are used, we recommend that you use an inkjet printer. If a laser printer is used for output, the printed image may become distorted due to paper skew, and may cause misalignment of the cutting position.

#### **Distance between Registration Marks**



In most cases, the distances are set automatically from ROBO Master or an application that is able to perform this function. If ROBO Master was used to start up the Controller, these settings are made automatically and cannot be changed.

#### **Registration mark reading**

...... This button is enabled when the "Search Marks" check box is not selected.

🔲 Registration Marks		
🔲 Search Registration Mark		
Distance Bel Registration	tween n Marks	
Width:	10.313	inch
Length:	7.479	inch
O mm	💌 inc	h
Registration	ı mark rea	iding



(1) Use the [Blade Position] buttons to move the blade or pen (ballpoint pen) within the registration mark range. The registration mark range is displayed as a green square in the illustration at the upper right corner of the Controller. The position of the square may change based on the orientation of the design.



(2) Click the Read Marks button to start manual reading of the registration marks.

Calibration ...... Click this button to open the [Calibration] window.



#### **Registration Mark Sensor Position Correction**

This function is used to adjust the cut position when the printed image and the cut position are misaligned. This operation enables the positions read by the registration mark sensor to be adjusted to the correct registration mark positions.

**CHECKPOINT** It is normally not necessary to perform this correction.

Follow the procedure described below to perform Registration Mark Sensor Position Correction.

- (1) Mount the blade holder in the Silhouette.
- (2) For the "Registration Mark Reading Test", use a sheet of paper with a cross drawn on it. Follow the procedure described below to prepare a sheet of paper with a cross drawn on it.

Print out the "Registration Mark Reading Test Sheet" that is provided with ROBO Master.

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- (3) From the "Media Type" drop-down box of the Controller, select the parameter that corresponds to the media used in the "Registration Mark Reading Test."
- (4) Load the "Registration Mark Reading Test Sheet" that you printed out from ROBO Master or the sheet that you prepared yourself for the "Registration Mark Reading Test" in the Silhouette. Next, open the "Calibration" window and move the blade to the green square part of the diagram. Click [Use Keyboard] in the "Blade Position" section of the Controller, and use the arrow keys on the keyboard to move the blade.



(5) Click the [Registration Mark Reading Test] button. After the Silhouette has read the printed cross, it will use the mounted blade to draw a cross.



Intersection point of the cross drawn on the "Registration Mark Reading Test Sheet" or the sheet you prepared yourself for the "Registration Mark Reading Test"

Intersection point of the cross drawn by the Silhouette

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If the position of the intersection point recognized by the Silhouette is not aligned with that of the printed cross, correct it as specified below. Use the vertical (y) or horizontal (x) scroll bar to specify a correction value. The correction value must be in the range of -40 to 40. One step represents 0.002 inch. For example, if 20 is specified as the correction value, the line drawn by the pen (ballpoint pen) moves 0.04 inch.

If the position of the intersection point recognized by the Silhouette is not aligned with that of the printed cross, set a correction value in accordance with the figures shown below. The red circle in each diagram denotes the position of the intersection point recognized by the Silhouette.



**Distance Correction** ..... When the Silhouette moves the media, the distance by which the media is fed may not always be exactly as expected, depending on the media thickness and cutting speed. Distance Correction is used to account for such an error. In the range of -2% to +2%, enter a negative value if the fed distance is greater than the expected distance, or a positive value if the fed distance is less than the expected distance. The correction value may be calculated from the equation below.

$$\left(1 - \frac{\text{Actually moved distance}}{\text{Distance to be moved}}\right) \times 100 = \text{correction value}$$

**Concrete example** ...... If the media needs to be moved 10 inch and the distance actually moved by the Silhouette is 9.9 inch, then

(1 − 9.9 ÷ 10) x 100 = 1

Therefore, enter the value 1 for correction.



Blade Position ...... Clicking the [Use Keyboard] button allows the arrow keys on the keyboard to be used in the same way as the [Blade Position] buttons.

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# **3.6 Error Messages**

If any of the following error messages is displayed on your computer screen, follow the instructions that have been provided for each message.

#### The USB port is currently in use. Please wait ten seconds, and then try again.

 $\rightarrow$  Follow the instructions in the message.

# Cannot communicate with the Silhouette. Check that the USB cable is connected correctly, press the Silhouette's standby switch, and then confirm that its lamp is lit (blue).

 $\rightarrow$  Follow the instructions in the message.

#### Silhouette communication error. Press the standby switch twice.

 $\rightarrow$  Follow the instructions in the message.

# GITKUSBP.DLL could not be found, and so the Controller could not be started. Please reboot your computer or re-install the Controller.

→ Follow the instructions in the message. To install the software again, first uninstall the Controller currently installed. Insert the Silhouette CD-ROM and follow the prompts to reinstall the software.

# The GITKUSBP.DLL functions could not be found, and so the Controller could not be started. Please reboot your computer or re-install the Controller.

→ Follow the instructions in the message. To install the software again, first uninstall the Controller currently installed. Insert the Silhouette CD-ROM and folow the prompts to reinstall the software.

# The value specified for the horizontal (vertical) distance between the registration marks exceeds the specifiable range. Please specify a distance in the range X to X inch.

 $\rightarrow$  Follow the instructions in the message.

# The value specified for the feed direction exceeds the specifiable range. Please specify a distance in the range of X to X %.

 $\rightarrow$  Follow the instructions in the message.

#### Registration mark reading failure. Please reload the medium.

 $\rightarrow$  Follow the instructions in the message.

# Registration mark reading failed. Reload the media, and then click the [Cut] button once again. If the registration marks are still not read correctly, deselect the "Search Marks" check box, move the blade within the green square, and then click the "Read Marks" button.

 $\rightarrow$  Follow the instructions in the message.

# The Controller is already active. Please shut the controller down and perform the operation once again.

→ This message is displayed when you duplicate starting up the Controller. Exit the currently operating Controller and restart it to continue operation.

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# The design orientation has not been specified correctly. Please check the "Design Orientation" setting in your application program.

→ Make the setting once again. If the problem is still not resolved, consult the manufacturer of the application software that you are using.

#### The distances between the registration marks have not been specified correctly. Please check the "Distance between Registration Marks" setting in your application program.

→ Make the setting once again. If the problem is still not resolved, consult the manufacturer of the application software that you are using.

### The specified Media Type cannot be used. Please specify a different Media Type.

→ The default Media Type has been specified, or characters (Ä / : \* ? < >) that cannot be used for the Media Type name have been specified. Please enter the Media Type name once again.

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# **APPENDIX**

# **Appendix A. Standard Specifications**

Item	Specification
Feeding method	Grit-rolling
Drive	Stepping motor
Cutting range	Maximum: 7.8 x 39 inch (in expanded mode)
	Limited, however, to film media only (0.0039 inch or less in thickness,
	liner-included thickness of 0.012 inch or less)
Effective sheet width	Letter size supported
	Loadable sheet width: maximum 10.25 inch, minimum 8.5 inch
	unless the carrier sheet is used
Operating speed	0.39 - 3.9 inch per second (in 0.39 inch steps; 10 levels selectable)
Loadable number of blades/pens	1
Tools	Blade with dedicated blade holder
	General-purpose ballpoint pen (used only with the ballpoint pen
	holder)
Media types that can be cut	Film media 0.0039 inch or less in thickness, liner-included thickness
	of 0.012 inch or less (but excluding high-intensity reflective sheets),
	Kent paper (inkjet or laser paper up to 157 g/m <sup>2</sup> ), drawing paper,
	postcards, scrapbooking paper; inkjet photo paper
	* Not all types of media can be cut
Interface	USB 2.0 (Full speed)
Rated power supply	Dedicated adapter, +24 V DC (2.0 A)
Power consumption	28 W (10 W or less during standby)
Working environment	41 to 104°F, 35 to 80% R.H. (Non-condensing)
Guaranteed operating environment	61 to 90°F, 35 to 70% R.H. (Non-condensing)
External dimensions (W x D x H)	Approx. 15.6 x 6.3 x 4.4 inch (excluding protrusions)
Weight	Approx. 4.9 lbs

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The specifications, etc., in this manual are subject to change without notice.

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