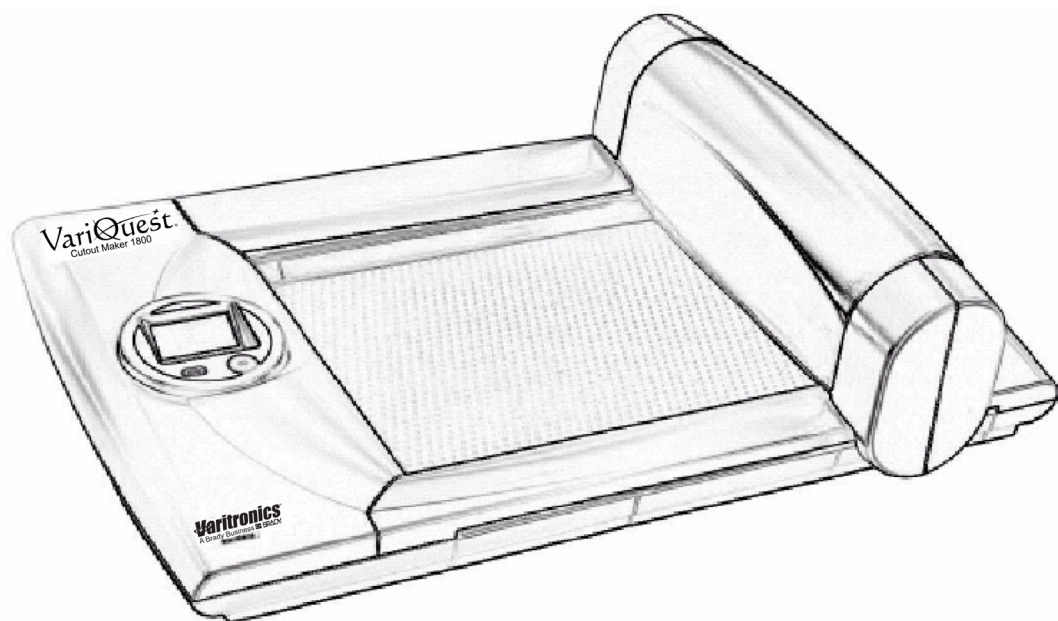


# VariQuest™

Cutout Maker 1800



## User's Guide

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6835 Winnetka Circle, Brooklyn Park, Minnesota 55428 Phone: 763-536-6400

Y1423606 Rev A  
Cat # 20144-03

## Standard Warranty

Brady Worldwide, Inc., through its **Varitronics**<sup>®</sup> business unit, warrants the equipment and accessories comprising the **VariQuest**<sup>®</sup> *Cutout Maker 1800* will be free from defects in material and workmanship for one (1) year from the date of customer purchase. Original serial number must appear on product. Removal of serial numbers will void this warranty and any equipment and accessories that have been altered or modified in any way and are not as originally purchased will void this warranty.

Varitronics will at its option repair, replace or refund the purchase price of any accessories, supplies or equipment found to be defective under this warranty. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

In the event of breach of this expressed warranty, or any other warranty, whether expressed or implied, Varitronics liability shall be limited to the remedy provided by the preceding paragraph. IN NO EVENT WILL VARITRONICS BE LIABLE FOR ANY DIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, NOR WILL VARITRONICS EVER BE LIABLE FOR BREACH OF WARRANTY, WHETHER EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF THE MERCHANTABILITY OR FITNESS, IN AN AMOUNT GREATER THAN THE PURCHASE PRICE OF THE PRODUCTS DESCRIBED BY THIS EXPRESSED WARRANTY. No agent, distributor, salesperson, wholesaler or retail dealer has authority to bind Varitronics to any other affirmation, representation or warranty concerning these goods.

### FCC Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communication. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### EMC (Electromagnetic Compatibility Notice)

This Class A digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

## Safety Information

### Warning Symbols

## Safety Information

The instructions in this manual have been labeled with various types of caution and warning messages.

The symbols preceding these messages indicate information that must be followed to avoid damage to property or injury to users of the Cutout Maker or people in the vicinity of the Cutout Maker.

The degrees of damage or injury that may result from failing to properly follow the instructions in this manual are classified as follows:



### **WARNING**

Improper use of the Cutout Maker may result in serious injury or death.



### **CAUTION!**

Improper use of the Cutout Maker may result in injury or damage to property.

## Warning Symbols

Different types of instructions are labeled with the following symbols (other symbols are also used in this manual):



### **Warning**



- **Connect the Cutout Maker to a 120V power source ONLY.**  
Connecting to a power source of any other voltage may result in fire or electrical shock.
- **Do not damage, crease or fold the power cord.**  
Altering the power cord, placing heavy objects on it or allowing it to become damaged, creased or folded may result in fire or electrical shock.
- **Do not connect the Cutout Maker to a two-way or multiple-way extension cord.**  
Doing so may result in fire or electrical shock.
- **Never insert or remove the power plug with wet hands.**  
Doing so may result in electrical shock.
- **Do not remove the gantry cover or base shroud from the Cutout Maker.**  
Doing so may result in electrical shock.

---

## Warning

---



- **Always hold the plug firmly when removing it from the power socket. Do not simply pull on the cord.**  
Pulling on the cord to remove the plug from the power socket or applying excessive force when doing so may damage the cord, which may in turn result in fire or electrical shock.
- **If the Cutout Maker overheats, emits smoke, or gives off an unusual odor, turn off the power switch immediately and remove the plug from the power socket.**  
If these problems occur, contact your Cutout Maker dealer. Continuing to use the Cutout Maker after such problems occur, may result in fire or electrical shock.
- **If metal objects, water, or other liquids get inside the unit, turn off the power switch immediately and remove the plug from the power socket.**  
If this problems occurs, contact your Cutout Maker dealer. Continuing to use the Cutout Maker after this problem occurs, may result in fire or electrical shock.



- **Always be sure the Cutout Maker is properly grounded.**  
Failing to do so may cause power leakages, which may in turn result in fire or electrical shock. If for some reason you are unable to ground the unit, contact your Cutout Maker dealer for instructions.



- **Never disassemble or modify the Cutout Maker.**  
Doing so may result in fire or electrical shock. If the Cutout Maker breaks down, turn off the power switch, remove the plug from the power socket and contact your Cutout Maker dealer.

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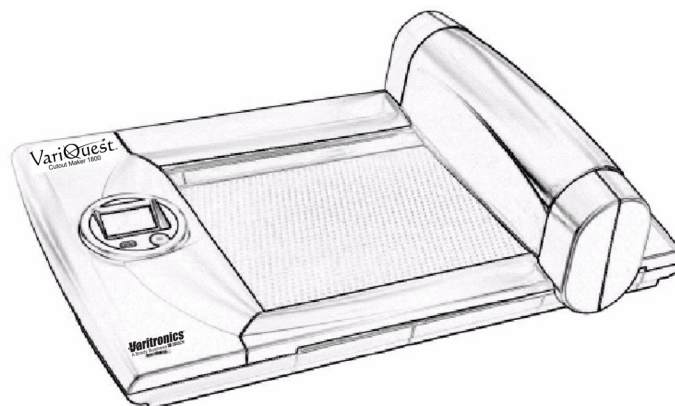


# 1 Features, Accessories and Materials

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This chapter provides an overview of the **VariQuest<sup>®</sup> Cutout Maker 1800** features, accessories and materials. The following information is contained in this chapter:

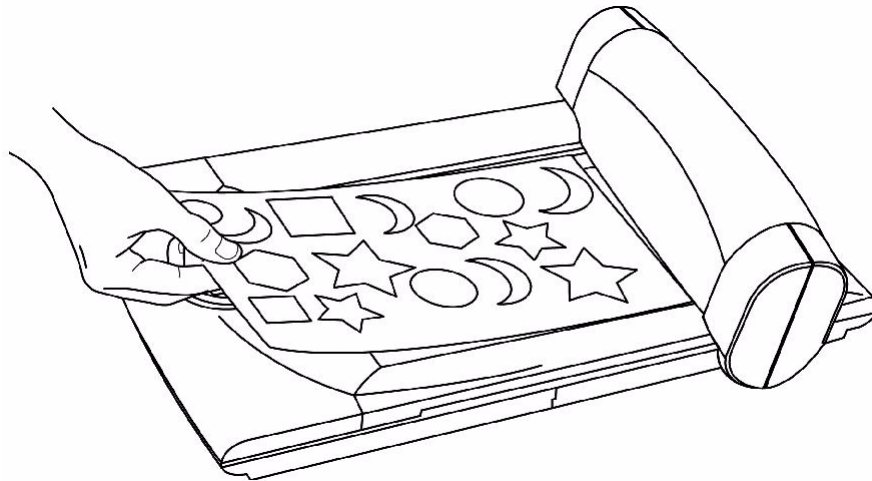
- “Features” on page 1-2
- “System Accessories” on page 1-3
- “Materials” on page 1-4
  - “Paper Classifications” on page 1-4
  - “Classifications for Unspecified Paper Types” on page 1-4



**VariQuest<sup>®</sup> Cutout Maker 1800**

## Features

- The Cutout Maker is designed to allow even first-time users to quickly produce high quality cutout shapes from sheets of construction paper, cold laminated construction paper, card stock, bond paper, **VariQuest<sup>®</sup>** Vinyl Sheets and **VariQuest<sup>®</sup>** Magnetic Sheets.
- You can easily create single or multiple cutouts using the **VariQuest<sup>®</sup>** *Design Center Software*.
- A two-button control panel with an LCD display is provided for controlling the Cutout Maker and displaying status and error messages.
- Choose from a variety of types and sizes of materials. **VariQuest<sup>®</sup>** *Design Center Software* provides automatic setup selections for shapes, fonts and collections.

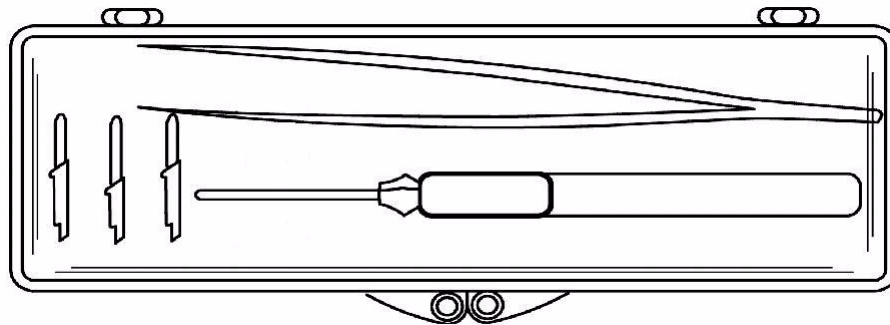


With the **VariQuest<sup>®</sup>** *Cutout Maker 1800* and **VariQuest<sup>®</sup>** *Design Center Software*, you can produce a variety of cutout shapes, fonts and collections.

## System Accessories

The Cutout Maker comes with a Starter Maintenance Kit that contains:

- Blades (3-pack)
- Blade/Chad Removal Tool
- Tweezers



## Materials



### CAUTION!

*Use of material other than that specified for use with the Cutout Maker may result in poor cut quality and damage to the blade.*

There is no direct correlation between paper weight and the classification of paper as “light weight” or “heavy weight” among manufacturers of construction paper.

Due to the large variation of paper classifications, **VariQuest<sup>®</sup> Cutout Maker** paper is defined below.

### Paper Classifications

- Light construction paper: 40-50 lbs
- Heavy construction paper: 60-80 lbs
- Cold laminated light construction paper: 40-50 lbs light construction paper + the **VariQuest<sup>®</sup> Cold Laminator** dual-sided laminate.
- Cold laminated heavy construction paper: 60-80 lbs heavy construction paper + **VariQuest<sup>®</sup> Cold Laminator** dual-sided laminate.
- Cardstock: 80-100 lbs
- Bond (copier) paper: 20 lbs

### Classifications for Unspecified Paper Types

Refer to the following tables to determine the paper weight for unspecified paper types. These tables will help determine if you have light or heavy construction paper. Weight measurements are determined by a scale based on number of sheets and size of paper.

Light Weight Construction Paper				
	9"x12"	12"x18"	18"x24"	24"x36"
<b>100 sheets</b>	1-1.3 lbs	2-2.5 lbs	4-5 lbs	8-10 lbs
<b>500 sheets</b>	5-6.3 lbs	10-12.5 lbs	20-25 lbs	40-50 lbs

Heavy Weight Construction Paper				
	9"x12"	12"x18"	18"x24"	24"x36"
<b>100 sheets</b>	1.5-2 lbs	3-4 lbs	6-8 lbs	12-16 lbs
<b>500 sheets</b>	7.5-10 lbs	15-20 lbs	30-40 lbs	60-80 lbs

## 2 Components and Specifications

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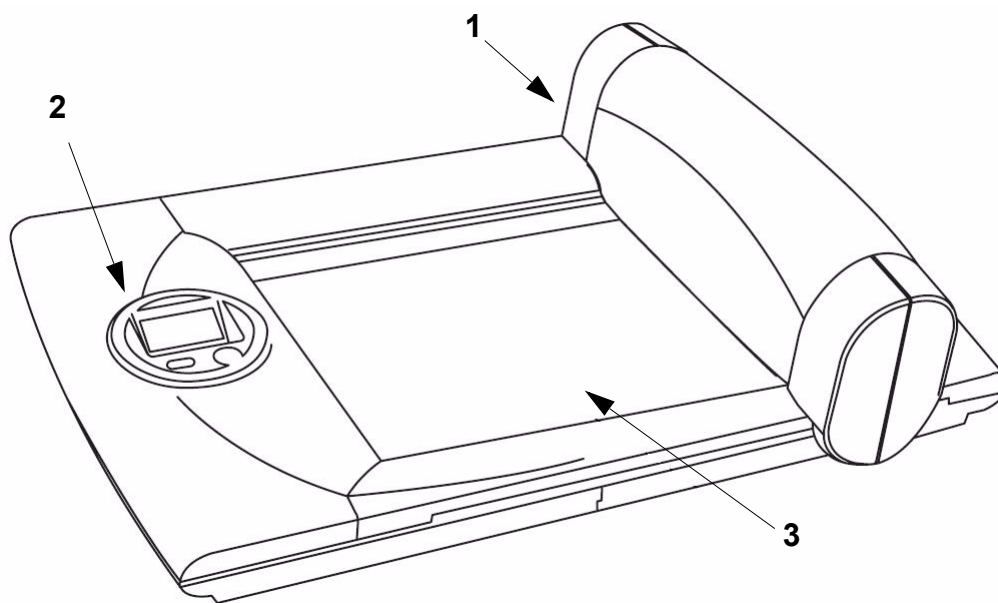
This chapter shows the locations of the major **VariQuest® Cutout Maker 1800** components and provides detailed system specifications. The following information is contained in this chapter:

- “Components” on page 2-2
  - “Perspective View” on page 2-2
  - “Gantry Cover Open” on page 2-2
  - “Side View” on page 2-3
  - “Control Panel” on page 2-4
- “Specifications” on page 2-5

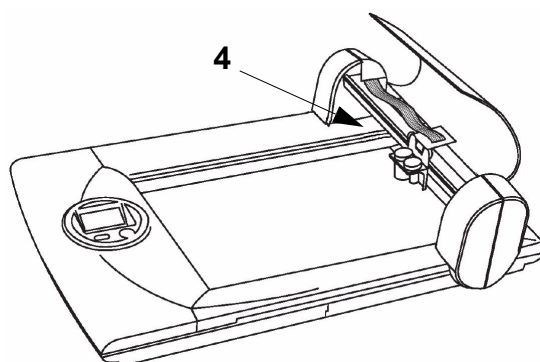
## Components

### Components

#### Perspective View

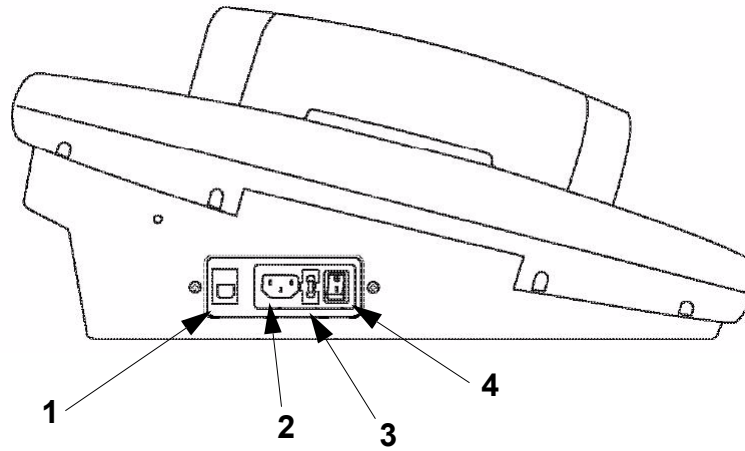


#### Gantry Cover Open



No.	Name
1	Gantry
2	Control Panel
3	Cutter Bed
4	Blade Holder Assembly

## Side View



No.	Name
1	USB Cable Receptacle
2	AC Power Cord Receptacle
3	DC Power Supply Fuse (2 Amp)
4	OFF (0) ON (1) Power Switch

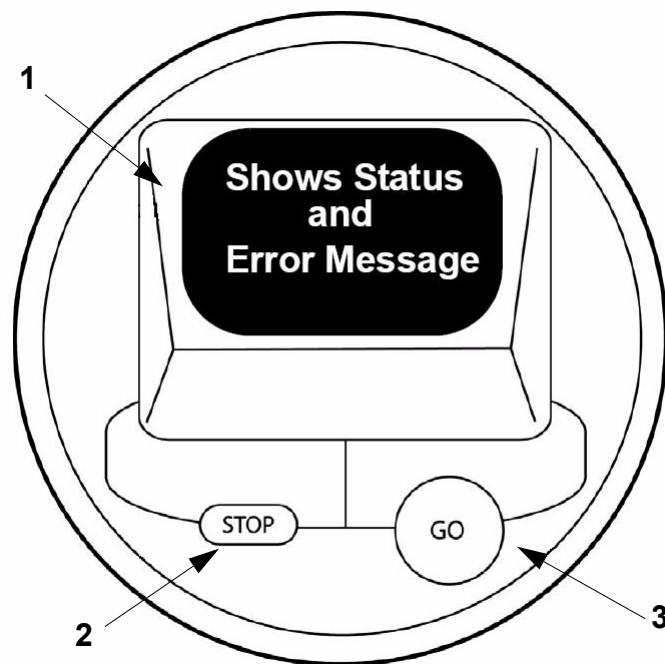
## Components

### Control Panel

The control panel provides buttons to manually start and stop cutter operation. Pressing the GO button starts the cutter when all of the software selections are completed and the LCD display indicates a "Ready" condition exists.

- Pressing STOP retracts the cutter blade and pauses the cutter operation.
- Pressing GO restarts the cutter operation from the point at which it paused.
- Pressing STOP a second time without pressing GO clears the cutter operation, retracts the cutter blade and sends the cutter blade back to the home position.

The LCD display shows the status of the operation underway and/or shows the error that caused the operation to stop.



No.	Name	Description
1	LCD Display	Lists cut job status (cutting, pause, error, etc.). Shows the options currently selected. Displays error messages and instructions.
2	"STOP" button	Pauses the cut job currently in process. Pressing STOP while a job is paused cancels the job.
3	"GO" button	Starts the cut job selected.



## Specifications

### Cutout Maker 1800 Technical Data Sheet

#### Output

- **Maximum cutout size:** 11-1/2" x 17-1/2"; up to 2' x 3' when tiling
- **Minimum scrap size:** 4" x 6" (101.6 mm x 152.4 mm)

#### Machine

- **Display:** 4 line, 16 characters LCD graphical display
- **Cutting speed:** up to 6" per second (simple shapes)
- **USB port:** 1
- **Dimensions:** 33" W x 21.5" D x 12.5" H
- **Weight (machine only):** 41.4 lbs
- **Weight (machine in its package):** 55 lbs

#### Materials

- **Tested & qualified materials:** construction paper, cold laminated construction paper, cardstock, bond paper, **VariQuest<sup>®</sup>** Vinyl Sheets and **VariQuest<sup>®</sup>** Magnetic Sheets
- **Material sizes:** standard construction paper 9" x 12" (228.6 mm x 304.8 mm) and 12" x 18" (304.8 mm x 457.2 mm); other standard size: 8-1/2" x 11" (215.9 mm x 279.4 mm)

#### Electrical Characteristics

- **Input current:** 1.7 Amps
- **Input voltages:** 100-240 VAC
- **Input frequency:** 50-60 Hz
- **Max Output Power:** 100 W
- **Interface:** USB

#### Environmental Characteristics

- **Operational requirements:** ambient temperature 32°F to 122°F (0°C to 50°C); relative humidity: 20%-80% (non-condensing)
- **Storage requirements:** ambient temperature 0°F to 140°F (18°C to 60°C); relative humidity: 10% - 95% (non-condensing)

#### Agency Approvals

- **UL, CUL:** Listed to UL/CSA 60950-1:2003
- **FCC:** Meets FCC – CFR 47, part 15, Subpart B, class A emissions limit
- **Canadian standard:** Meets Canadian standard ICES-003, Issue 4:2004, class A emission limits

#### Other

- Manufactured in the USA

The information provided in this Technical Data Sheet indicates performance under normal conditions. It is intended only as a source of information without guarantee and does not constitute a warranty. Purchases may need to independently determine the suitability of these products for their specific purpose.

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## 3 Getting Started

---

This chapter provides instructions for unpacking and setting up the **VariQuest<sup>®</sup> Cutout Maker 1800**. Keep this guide near the Cutout Maker so it can be available for reference.

The chapter contains these sections:

- “*Unpacking and Positioning*” on page 3-2
  - “*Unpacking the Cutout Maker*” on page 3-2
  - “*Verifying Packaging Contents*” on page 3-3
  - “*Positioning the Cutout Maker*” on page 3-4
- “*Setting up the Cutout Maker*” on page 3-5
  - “*Connecting the Power Cord*” on page 3-5
- “*Connecting the Cutout Maker*” on page 3-6
  - “*Connecting to a VariQuest<sup>®</sup> Design Center 1000*” on page 3-6
  - “*Connecting to a Personal Computer*” on page 3-7

## Unpacking and Positioning

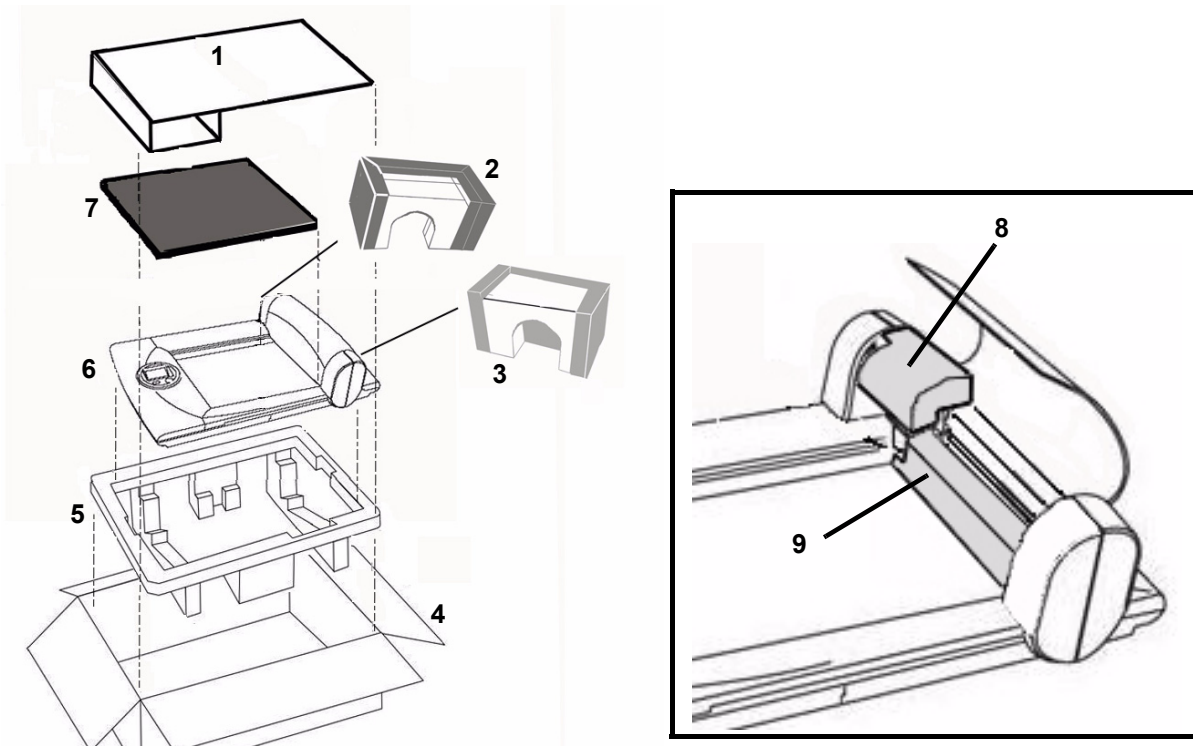
### Unpacking the Cutout Maker

The Cutout Maker and accessories are packed in a cardboard carton with foam padding for protection during shipment. Carefully unpack the items and keep the packing materials. If you need to ship the Cutout Maker in the future, repack the system as shown in the figure.



#### WARNING

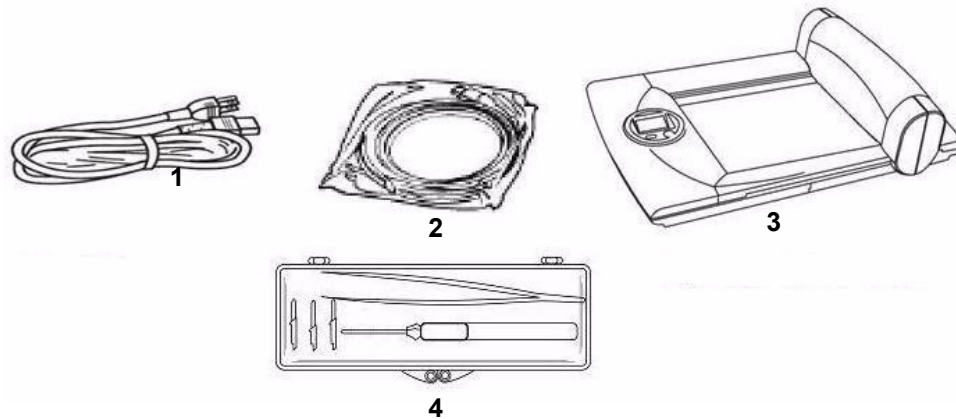
Due to the weight of the unit, we recommend that 2 people lift the Cutout Maker from the carton. To avoid personal injury, use proper lifting techniques when removing the Cutout Maker from the carton.



No.	Description	No.	Description
1	Cardboard Cover	6	CM1800
2	End Cap (rear, key cutout)	7	Packing Foam
3	End Cap (front)	8	Blade Assembly Foam
4	Shipping Container	9	Gantry Rail Foam
5	Foam Cradle		

## Verifying Packaging Contents

After unpacking, verify that all of the following items have been included in the Cutout Maker box:

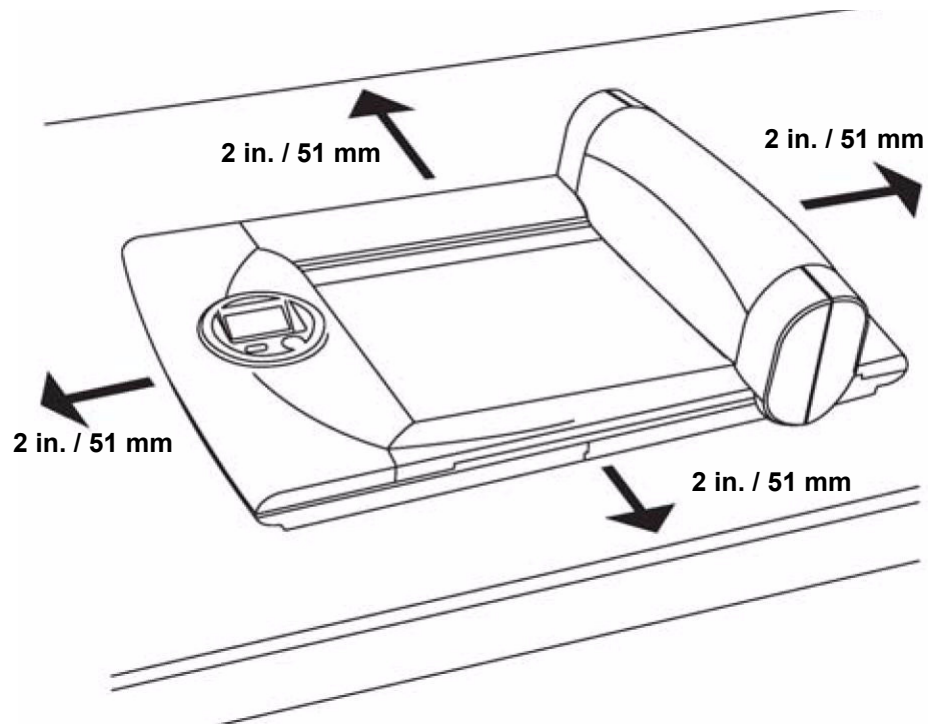


No.	Description
1	Electrical Power Cord
2	USB Cable
3	Cutout Maker 1800
4	Maintenance Kit

## Unpacking and Positioning

### Positioning the Cutout Maker

To ensure proper functioning of the Cutout Maker on a work space, allow adequate space around the system as shown below.



## Setting up the Cutout Maker

### Connecting the Power Cord



#### **WARNING**

Never operate the Cutout Maker in an area where it can get wet

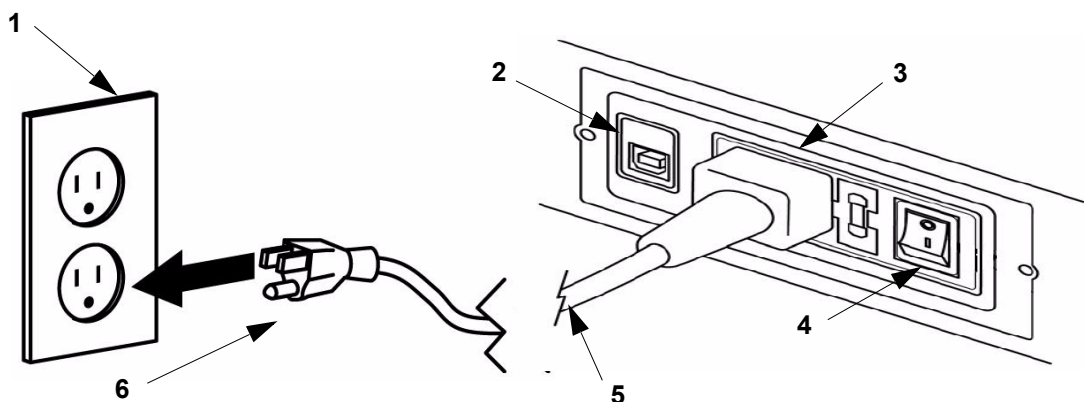


#### **CAUTION!**

*Always connect the power cord to the Cutout Maker before inserting the plug into a wall socket*

Connect the power cord to the Cutout Maker. Then insert the power plug into a grounded three-prong wall socket.

1. Set the power switch to its "0" (OFF) position.
2. The power cord had a three-prong female connector on one end that must be inserted into the male power receptacle on the left side of the Cutout Maker.
3. Plug the other end of the cord into an appropriate AC outlet (wall socket).



No.	Description
1	Wall Socket
2	USB Cable Receptacle
3	Power Cord Receptacle
4	Power Switch (1=ON, 0=OFF)
5	Power Cord
6	Cutout Maker Power Plug

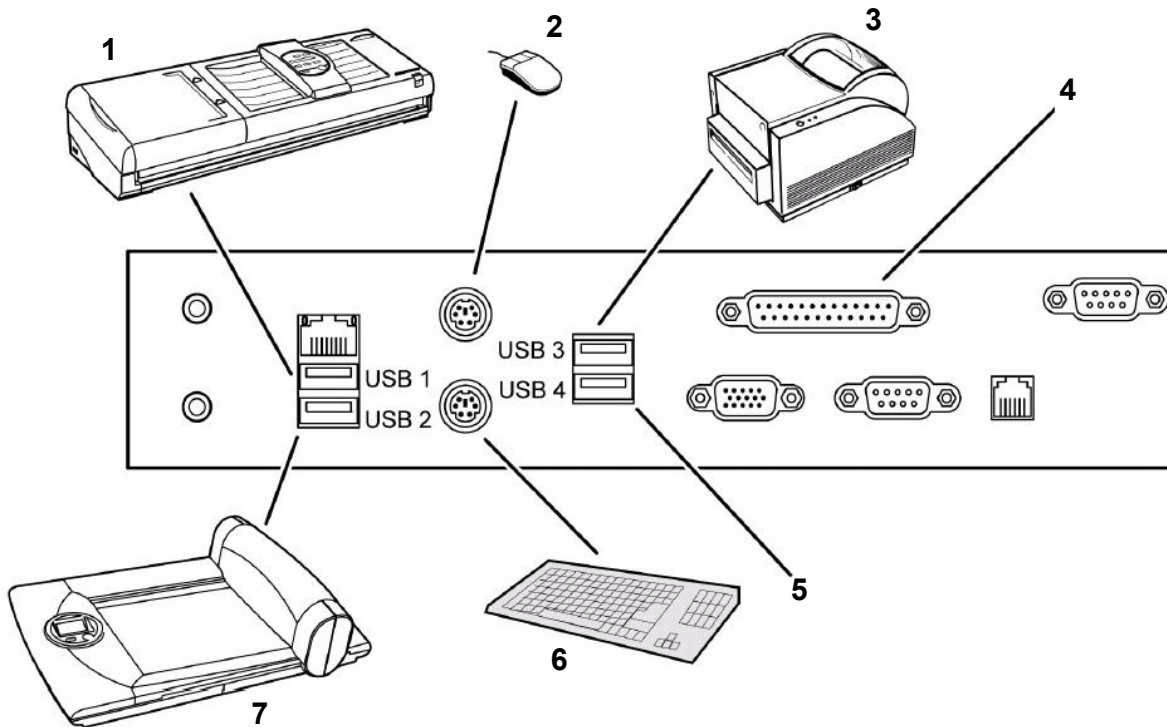
## Connecting the Cutout Maker

### Important

Use the USB cable supplied with the Cutout Maker to connect to the **VariQuest<sup>®</sup> Design Center 1000** or a PC. The USB cable complies with FCC "Rules and Regulations," Part 15 for Class A Equipment using fully-shielded six-foot data cables. Use of longer cables or unshielded cables may increase radiation emissions above the Class A limits. The power cord must be inserted into the receptacle on the left side of the Cutout Maker before connecting the communication cables.

### Connecting to a VariQuest<sup>®</sup> Design Center 1000

All VariQuest products can connect to the Design Center 1000 using any available USB port. However, you can also connect devices using the following diagram.

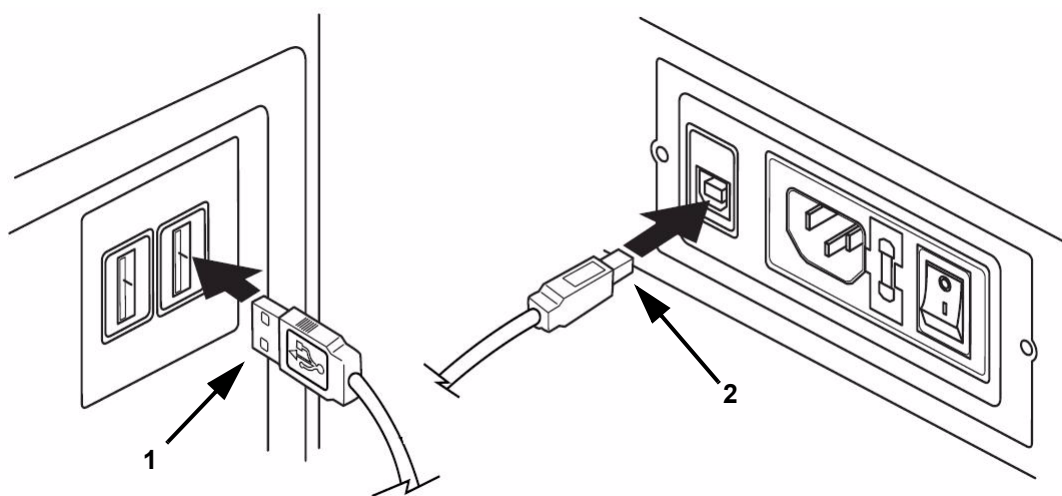


No.	Description	No.	Description
1	VariQuest <sup>®</sup> Poster Maker 3600	5	Available USB Port
2	Mouse (optional)	6	Keyboard (optional)
3	VariQuest <sup>®</sup> Awards Maker 400	7	VariQuest <sup>®</sup> Cutout Maker 1800
4	Printer		

## Connecting to a Personal Computer

The Cutout Maker provides a standard interface for connecting to a computer (USB connector). Connect one end of the cable provided to an available USB connector on the computer, and connect the remaining end to the USB connector on the Cutout Maker. Power on the Cutout Maker and the computer, and install the VariQuest<sup>™</sup> Design Center Software.

**Note:** Refer to the separate **VariQuest<sup>®</sup> Design Center 1000** User's Guide for software installation.



No.	Description
1	USB Cable Type A Connector
2	USB Cable Type B Connector



## 4 Operating the Cutout Maker

---

This chapter provides instructions for operating the Cutout Maker. The following information is contained in this chapter:

- *“Loading Material” on page 4-2*
- *“Typical Operating Sequence” on page 4-3*
  - *“Operating Example” on page 4-3*

## Loading Material

Before loading material on the **VariQuest<sup>®</sup> Cutout Maker 1800**, you must choose the appropriate material type in the **VariQuest<sup>®</sup> Design Center Software**. This software is installed on the **VariQuest<sup>®</sup> Design Center 1000** or on your PC. When you select the material type in the software, the Cutout Maker adjusts the output settings (blade depth, force and cutting speed) accordingly. After you have selected the material type and prepared your cut job, the control panel will instruct you to load the appropriate material on the Cutout Maker.

If you experience poor cut quality, you can adjust the material settings and increase or decrease the blade depth. Adjust this blade setting only if the blade does not cut completely through the material or cuts too deeply into the mat.

- See the **VariQuest<sup>®</sup> Design Center Software User's Guide** for detailed instructions for software setup.
- Ensure the material is loaded as shown below for proper operation of the unit. The material must lay flat on the bed, and the top left corner must be flush with the guides on the Cutout Maker.

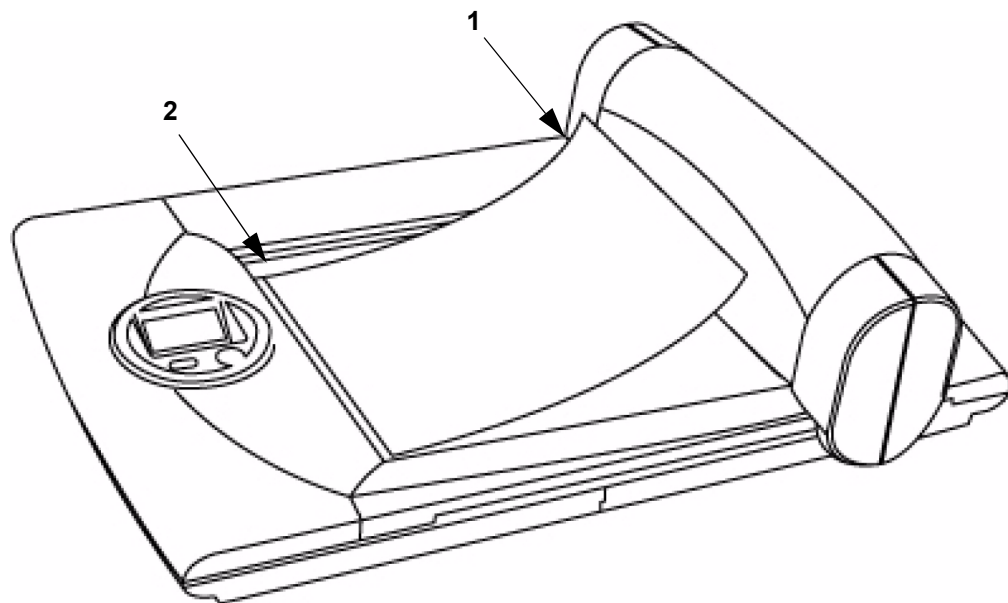
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**Note:** Smaller scrap sizes may move on the cutting mat. If this occurs, you may need to use a larger piece of scrap, or correct the movement by placing another piece of paper next to the paper you are cutting to increase vacuum suction.

---

### To load material:

1. Press paper down flat against bed [1].
2. Ensure the top-left corner of the material [2] is flush with guides on Cutout Maker bed.



## Typical Operating Sequence

---

### **Important**

The **VariQuest<sup>®</sup> Cutout Maker 1800** can be used only with the **VariQuest<sup>®</sup> Design Center Software**. The **VariQuest<sup>®</sup> Design Center Software** is installed on your **VariQuest<sup>®</sup> Design Center 1000 PC**. Refer to the separate **VariQuest<sup>®</sup> Design Center 1000 User's Guide** for software installation.

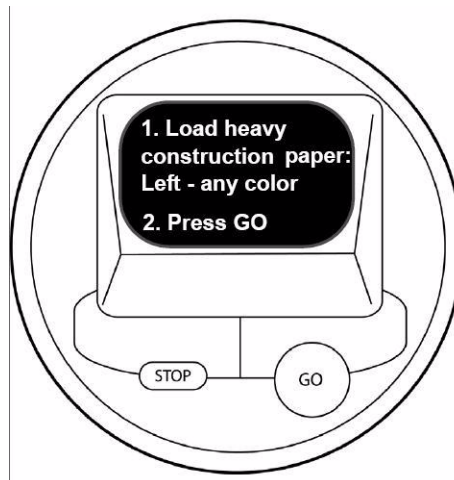
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After loading the materials as described in "Loading Material" on page 4-2, the Cutout Maker control panel will display instructions similar to the following example.

### Operating Example

#### **To load cutout material:**

1. Position the material on the Cutout Maker. Make sure that the top left corner is flush with the guides on the Cutout Maker bed.
2. Press **GO**.



## Typical Operating Sequence

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### *To smooth paper/start cut job:*

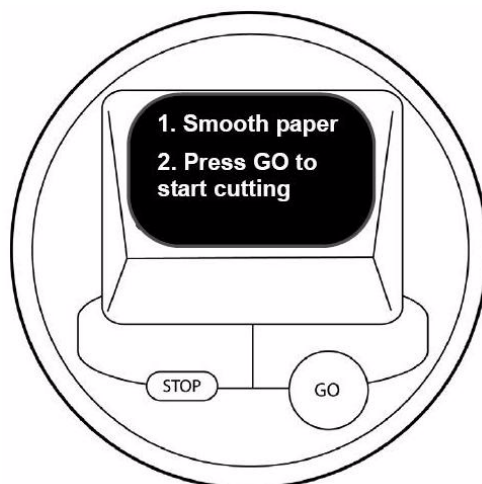
1. Smooth the paper on the cutting mat.

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**Note:** Smoothing paper on the cutting mat ensures a clean cut.

---

2. Press **GO** to start the cut job. Once cutting is complete, you can remove your cutout from the cutting bed.



## 5 Maintenance

This chapter describes the periodic maintenance procedures required during normal operation of the Cutout Maker.

The chapter contains these sections:

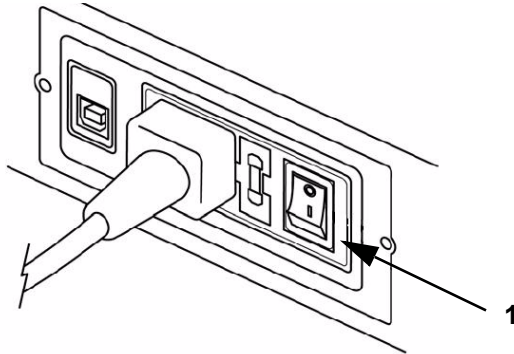
- *“Maintenance Summary” on page 5-1*
  - *“Replacing the Cutting Blade” on page 5-2*
  - *“Replacing the Cutting Mat” on page 5-6*
  - *“Oil Gantry Rails” on page 5-10*

### Maintenance Summary

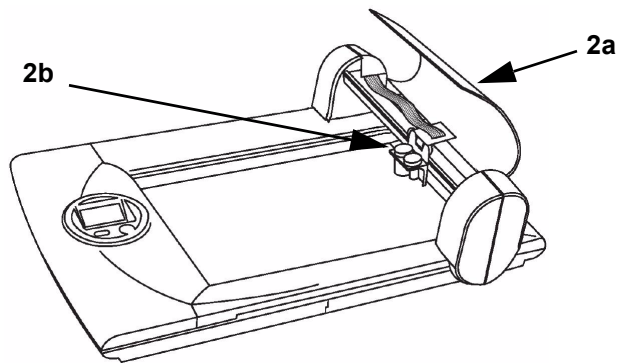
Maintenance	Occurrence	Reason for Maintenance	Description
Clean mat with Isopropyl Alcohol (IPA)	Weekly or as needed	Material to be cut moves while being cut.	Use IPA and a lint-free cloth. Turn power off. Apply IPA to cloth and wipe. Mat should be slightly tacky when rubbed with the bare hand.
Change blade	Monthly or as needed	Cutouts exhibit an unacceptable amount of tears.	See “Replacing the Cutting Blade” on page 5-2.
Change mat	Yearly	Material to be cut moves while being cut.	See “Replacing the Cutting Mat” on page 5-6.
Oil gantry rails	Yearly	Rails exhibit signs of wear. Slight grinding is felt when moving cutter head manually.	See “Oil Gantry Rails” on page 5-10.

## Replacing the Cutting Blade

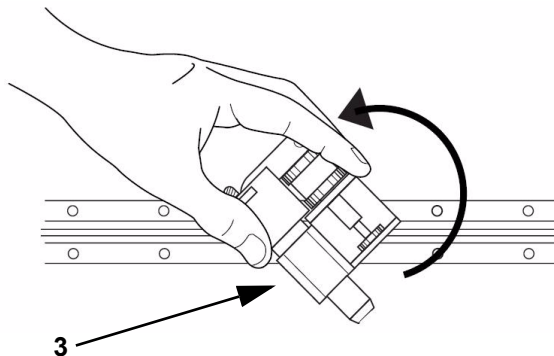
1. Set the power switch [1] to 0 (OFF) to turn the machine off.



2. Open the gantry top cover [2a], locate the blade holder/motor assembly [2b] and move it toward the middle of the gantry track.



3. Rotate the blade holder [3] 90° towards the front of the unit to gain access to the blade.

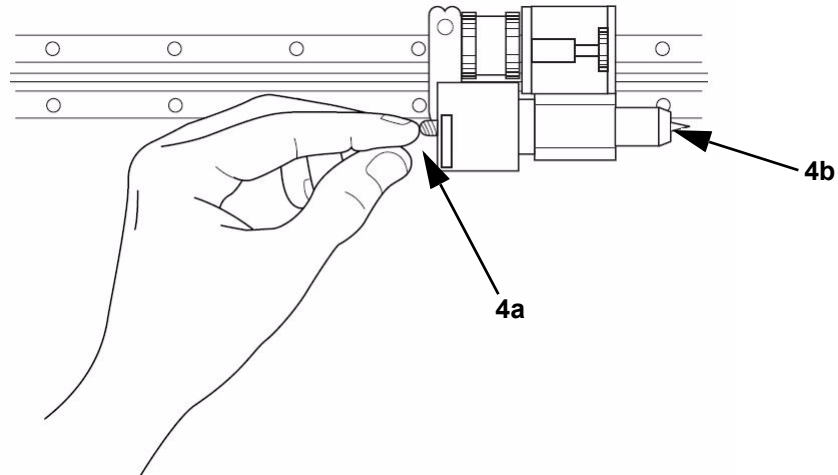


4. Press blade release button [4a] at the rear of the blade holder to expose the blade.



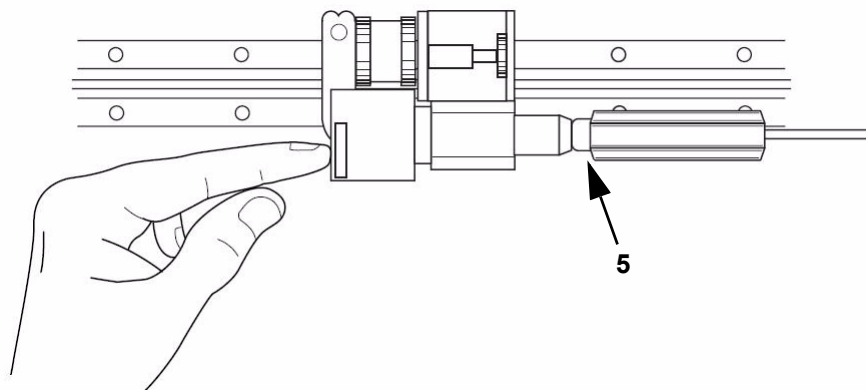
**CAUTION!**

*The cutter blade protrudes from the blade holder [4b] slightly even when retracted. Take care to avoid contact with the blade. Personal injury or equipment damage may result if the blade is touched.*



5. Press the blade removal tool [5], included in maintenance kit, over the blade and remove the blade from the blade holder. Hold a finger over the blade release button to prevent the blade from reseating.

**Note:** Press the cork end of the tool over the blade.



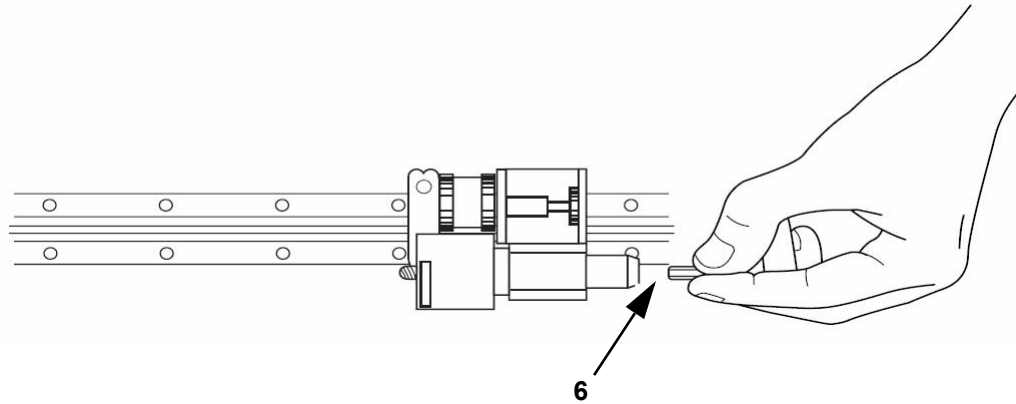
## Maintenance Summary

6. Carefully position the blade in the blade holder [6] and insert it until only 1/4 inch of the blade protrudes from the holder.

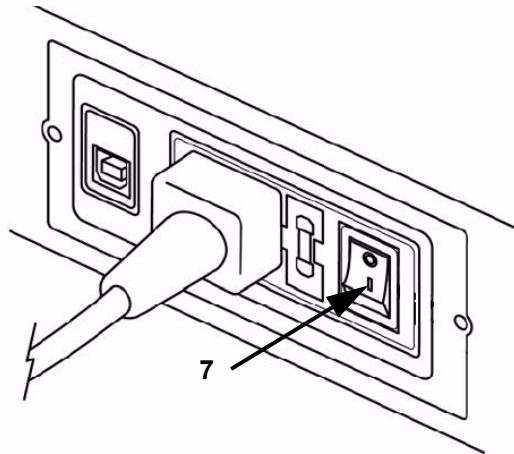


### CAUTION!

*The cutter blade protrudes from the blade holder slightly even when retracted. Take care to avoid contact with the blade. Personal injury or equipment damage may result if the blade is touched.*

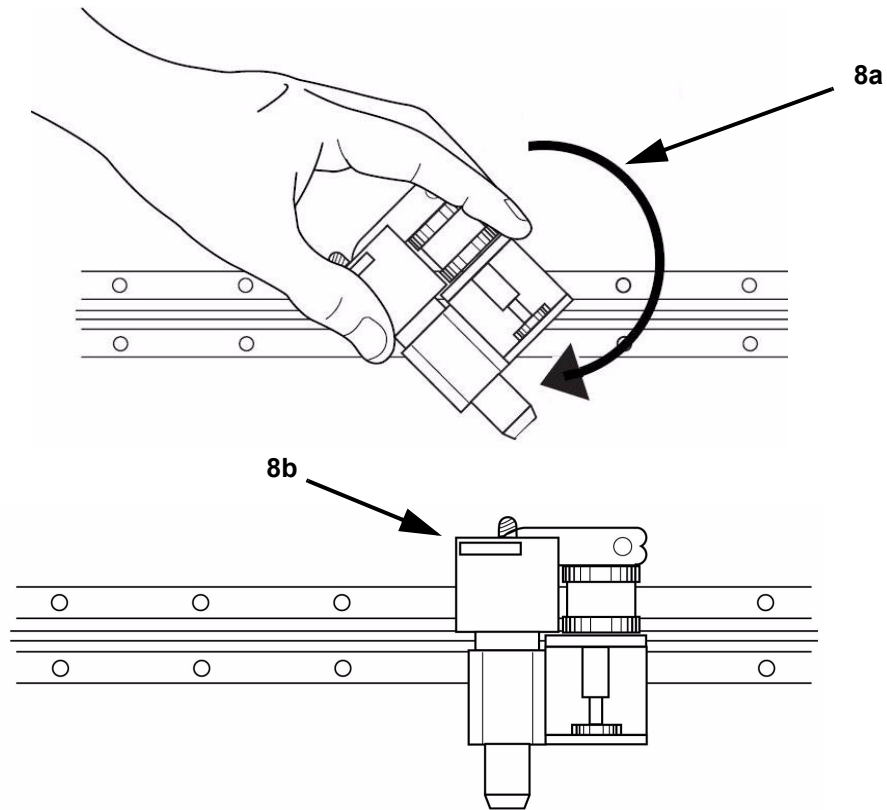


7. Set power switch [7] to I (ON) to activate the electromagnet that draws the blade into its fully seated position within the blade holder.

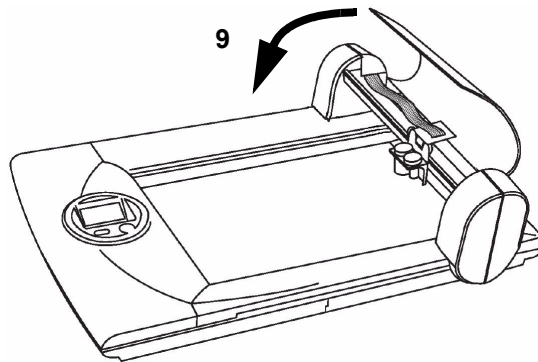




8. Rotate the blade holder assembly 90° [8a] back to its operating position [8b].

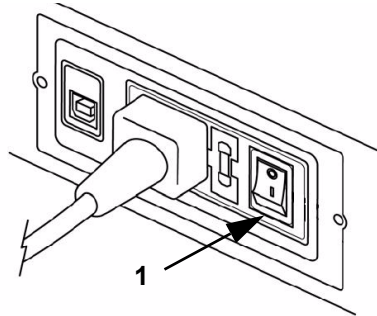


9. Close the gantry top cover [9] on the Cutout Maker.

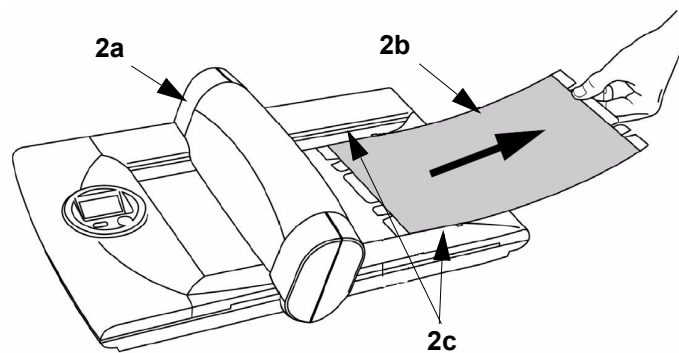


## Replacing the Cutting Mat

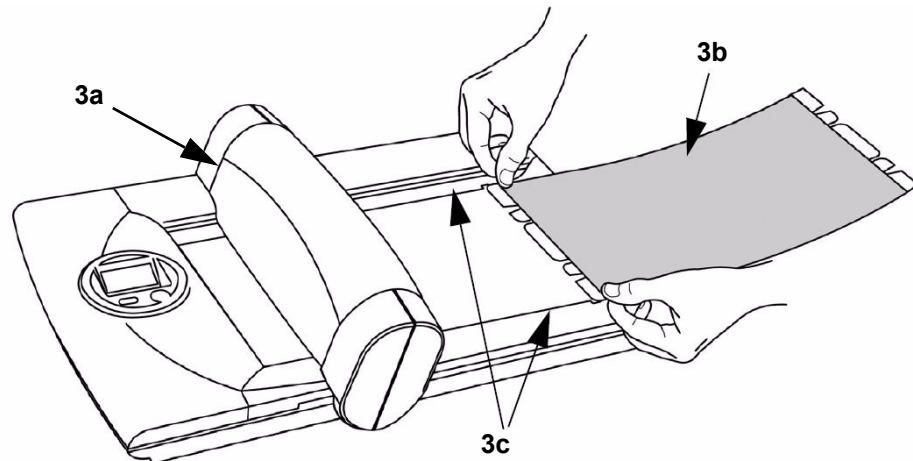
1. Set the power switch [1] to 0 (OFF) to turn the machine off.



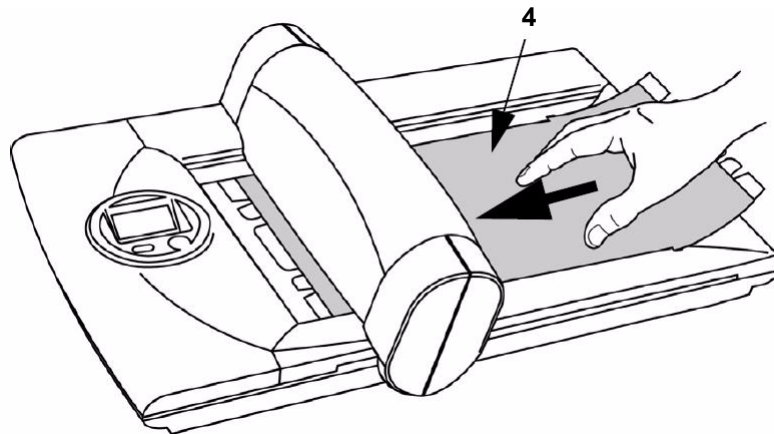
2. Slide the gantry forward [2a] and grasp the rear edge of the cutting mat. Slide the mat out (to rear) [2b] from between the channels on each side of the bed [2c].



3. With the gantry moved forward [3a], position the cutting mat soft side up [3b] so that the sides of the mat protrude into the channels on each side of the bed [3c].



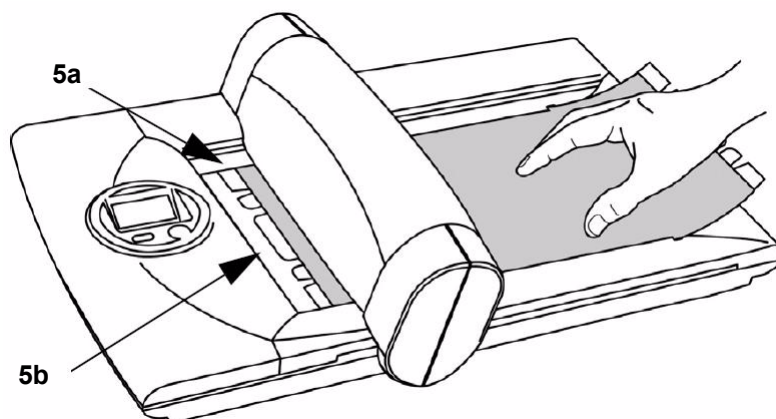
4. Guide the cutting mat forward between the channels [4] on each side of the bed.



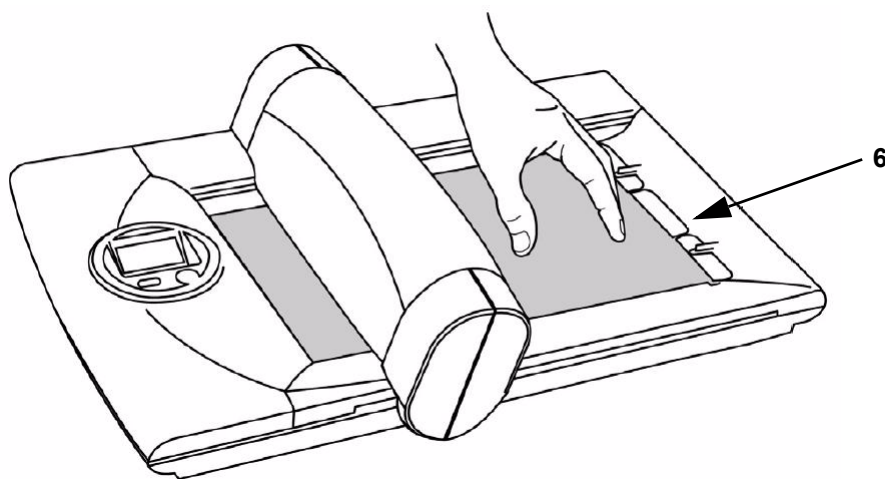
## Maintenance Summary

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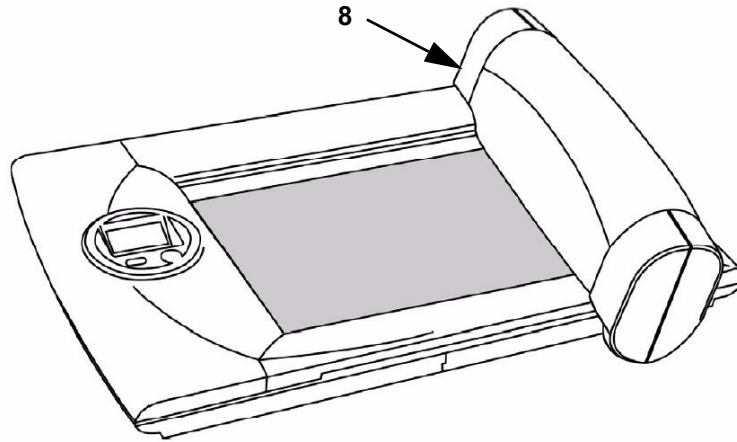
5. Continue sliding the mat forward until the guide slots [5a] on the leading edge of the mat are fully engaged with the guides on the front end of the bed [5b].



6. With the leading edge of the mat secured, align the notches on the rear edge of the mat with the guide posts on the bed [6]. Press the mat down to secure it in position.



7. Turn the machine on.
8. Ensure that the gantry returns to the home position [8].



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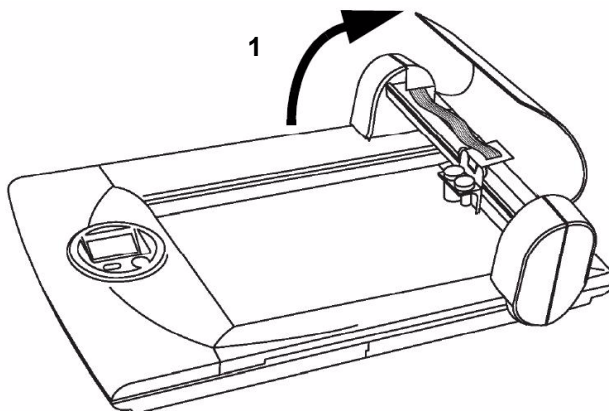
**Note:** In some cases, you may rotate the protective mat to make use of surface area that is not worn. Either end of the mat may be inserted into the Cutout Maker.

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## Maintenance Summary

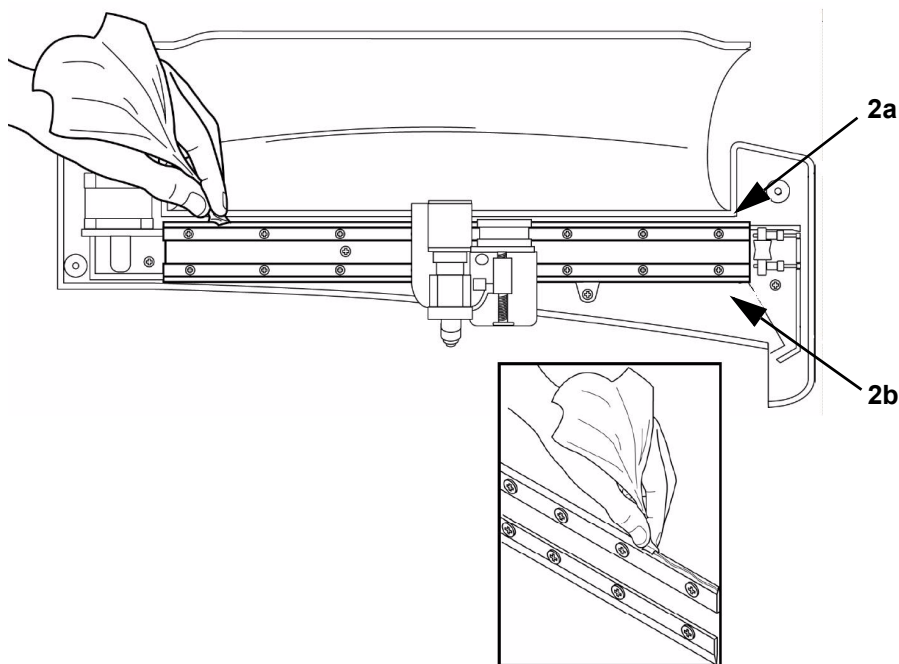
### Oil Gantry Rails

1. Lift gantry top cover [1].



2. Apply a small amount of general household oil (such as 3-in-1 oil) to a clean cloth and wipe on exposed edge of upper [2a] and lower [2b] gantry rails.

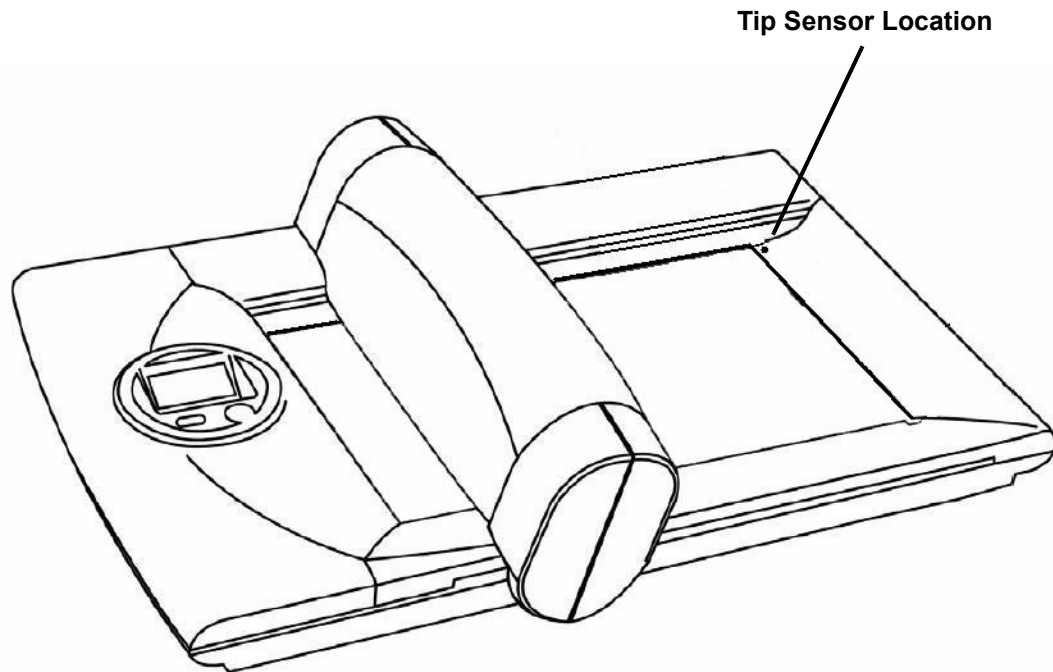
**Note:** Take care not to apply too much oil. Oil should not drip or pool. Remove excess oil with a clean cloth.



3. Close gantry top cover.

## Clean Tip Sensor

1. Check that there are no obstructions, residue or paper debris covering the tip sensor.
2. Remove any debris from the tip sensor location plunger.
3. Remove any adhesive ooze from the tip-sensor area with a swab and isopropyl alcohol.



## 6 Troubleshooting

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This chapter describes how to locate and solve problems that you may encounter while using the Cutout Maker. The following information is contained in this chapter:

- *“Process” on page 6-1*
- *“Troubleshooting” on page 6-2*
- *“Error Codes” on page 6-4*
- *“Servicing the Cutout Maker” on page 6-6*

### Process

Many problems can be traced to something as simple as a loose connection. Check the following before proceeding to the problem-specific solutions on the next page.

### Tips

In each problem-specific section on the next page, try the steps in the order suggested. This may help you solve the problem more quickly.

Keep a record of the steps you take when troubleshooting. The information may be useful to technical support or service personnel.

- Use some other electrical device to confirm that the electrical outlet is working.
- Ensure all connections are securely attached.



## Troubleshooting

Troubleshooting	
Diagnosis	Required Action
Cutout Maker does not work even though the power switch has been turned on.	<ol style="list-style-type: none"> <li>1. Verify that power cord has been plugged in properly.</li> <li>2. Verify that power switch is turned on.</li> </ol>
LCD Display does not turn on.	<ol style="list-style-type: none"> <li>1. Verify that power cord has been plugged in properly.</li> <li>2. Verify that power switch is turned on.</li> </ol>
Excessively loud noise.	<ol style="list-style-type: none"> <li>1. Oil rails, see "Oil Gantry Rails" on page 5-10.</li> </ol>
<p><b>Note:</b> In each of the following cases, follow the 5 steps shown in the "Required Action" column.</p> <ul style="list-style-type: none"> <li>• Button presses don't seem to be working.</li> <li>• The message box in the VariQuest software contains the following message: "There was an error communicating with the cutter. You will need to recut some or all of your job. Select OK, then select the page or pages to recut."</li> <li>• The LCD Display on the Cutout Maker doesn't change to a screen saying "Ready" when the user enters the initial Cutout Maker screen in the VariQuest software.</li> </ul>	<ol style="list-style-type: none"> <li>1. Verify that the <i>Design Center 1000</i> or PC and the <i>Cutout Maker 1800</i> are turned on, and the power cord has been plugged in properly.</li> <li>2. Verify that the USB cable is plugged into the <i>Design Center 1000</i> or PC and the <i>Cutout Maker 1800</i>.</li> <li>3. Turn the device off/on.</li> <li>4. Verify that the <i>Design Center 1000</i> or PC is not prompting to install the USB driver (Found New Hardware Wizard). It's possible that the wizard is behind another window on the <i>Design Center 1000</i> or PC. Run the wizard to install the USB driver, if needed.</li> <li>5. Verify that the print driver for the device is installed by opening the "Printers and Faxes" control panel on the <i>Design Center 1000</i> or PC, and verify that there is a printer named "<b>VariQuest® Cutout Maker 1800</b>". Run the printer setup from the CD, if needed.</li> </ol>
Paper tears.	<ol style="list-style-type: none"> <li>1. Verify correct material was selected in <b>VariQuest®</b> Software.</li> <li>2. Change cutting blade, see "Replacing the Cutting Blade" on page 5-3.</li> <li>3. Replace the cutting mat if significant use is visible, see "Replacing the Cutting Mat" on page 5-7.</li> <li>4. Adjust material settings, see <b>VariQuest®</b> Software User's Guide.</li> <li>5. Clean mat with isopropyl alcohol.</li> <li>6. Rotate mat 180°.</li> <li>7. Replace mat.</li> </ol>

Troubleshooting (continued)	
Diagnosis	Required Action
Paper scrunching during cutting.	<ol style="list-style-type: none"> <li>1. Adjust the cutting blade depth 1 step negative (see “<i>Loading Material</i>” on page 4-2).</li> <li>2. Try printing again. If condition persists, repeat step 1.</li> </ol>
Paper moves while cutting.	<ol style="list-style-type: none"> <li>1. Mat is dirty, clean with isopropyl alcohol.</li> <li>2. Scrap paper is too small, use larger scrap paper.</li> </ol> <p><b>Note:</b> Smaller scrap sizes may move on the cutting mat. If this occurs, you may need to use a larger piece of scrap, or the movement may be corrected by placing another piece of paper next to the paper you are cutting to increase vacuum suction.</p> <ol style="list-style-type: none"> <li>3. Rotate mat 180°.</li> <li>4. Replace mat.</li> </ol>
Blade does not retract during blade change procedure.	<ol style="list-style-type: none"> <li>1. Remove blade.</li> <li>2. Rotate head down, depress blade release button, cycle power.</li> <li>3. Rotate head up, depress blade release button, cycle power.</li> <li>4. Depress blade release button, insert blade, cycle power.</li> </ol>

## Error Codes

### Error Codes

The following table describes the Error Codes that may appear on the control panel and corrective action required to correct the problem.

**Note:** Error codes contain a 2nd digit that the user does not have to be concerned with.

Error Codes	
Message Displayed	Corrective Action
Cutter stalled. Check mat for obstructions. Press stop to clear error.  Error #3 or Error #4	<ol style="list-style-type: none"> <li>1. Verify that there are no obstructions on the mat.</li> <li>2. Insert new material.</li> <li>3. Verify that the correct material type is selected in the <b>VariQuest<sup>®</sup></b> Software on the Design Center or the PC.</li> <li>4. Press STOP to clear error.</li> <li>5. Try again.</li> <li>6. If the error persists, contact your <b>VariQuest<sup>®</sup></b> dealer.</li> </ol>
Sensor error. Check mat for obstructions. Press stop to clear error.  Error #5, Error #6 or Error #13	<ol style="list-style-type: none"> <li>1. Verify that there are no obstructions on the mat.</li> <li>2. Press STOP to clear error.</li> <li>3. Try again.</li> <li>4. If the error persists, contact your <b>VariQuest<sup>®</sup></b> dealer.</li> </ol>
Tip Sensor error. Check blade position. Ensure mat is not over sensor. Press stop to clear error.  Error #8	<ol style="list-style-type: none"> <li>1. Ensure that the mat is not over the tip sensor.</li> <li>2. Remove any obstructions from the tip sensor (see <i>"Clean Tip Sensor" on page 5-11</i>).</li> <li>3. Open gantry cover.</li> <li>4. Verify that the blade holder assembly is rotated to the operating position as shown in Step 8 on page 5-6.</li> <li>5. Rotate the blade holder 90° toward the front of the unit as shown in <i>"Replacing the Cutting Blade" on page 5-2</i>.</li> <li>6. Ensure that the blade is installed in the blade holder.</li> <li>7. Rotate the blade holder assembly 90° to its operating position as shown in Step 8 page 5-6.</li> <li>8. Close gantry cover.</li> <li>9. Press STOP to clear error.</li> <li>10. Try again.</li> <li>11. If the error persists, contact your <b>VariQuest<sup>®</sup></b> dealer.</li> </ol>
Job contains invalid data and cannot be cut. Press stop to clear error.  Error #9 or Error #10	<ol style="list-style-type: none"> <li>1. Select a different object size in the <b>VariQuest<sup>®</sup></b> Software on the Design Center or the PC.</li> <li>2. Press STOP to clear error.</li> <li>3. Try again.</li> <li>4. If the error persists, contact your <b>VariQuest<sup>®</sup></b> dealer.</li> </ol>

<b>Error Codes (continued)</b>	
<b>Message Displayed</b>	<b>Corrective Action</b>
<p>Cut speed error. Select a different object size and try again. Press stop to clear error.</p> <p>Error #11</p>	<ol style="list-style-type: none"> <li>1. Select a different object size in the <b>VariQuest®</b> Software on the Design Center or the PC.</li> <li>2. Press STOP to clear error.</li> <li>3. Try again.</li> <li>4. If the error persists, contact your <b>VariQuest®</b> dealer.</li> </ol>
<p>Cutter head failed to lift. Press stop to clear error.</p> <p>Error #14</p>	<ol style="list-style-type: none"> <li>1. Press STOP to clear error.</li> <li>2. Try again.</li> <li>3. If the error persists, contact your <b>VariQuest®</b> dealer.</li> </ol>

## Servicing the Cutout Maker

If you are unable to solve the problem, you need to have the Cutout Maker serviced.

***To service your Cutout Maker:***

1. Write a description of the problem and a checklist of the steps you took when trying to fix the problem. This information may be useful to the service personnel.
2. Contact your **VariQuest<sup>®</sup>** dealer for further instructions.
3. If instructed to do so by your **VariQuest<sup>®</sup>** dealer, pack the Cutout Maker in the original carton. See *"Unpacking the Cutout Maker"* on page 3-2.

