

***Royal Sovereign RSC-5500H  
55" Heat Assist Wide  
Formal Roll Laminator***

Instruction Manual



*Provided by*

**MyBinding.com**  
*When Image Matters.*

Call Us at 1-800-944-4573



# Owner's Manual

**RSC-5500H/6500H**

## **GRAPHIC LAMINATION PRODUCTS**



*Please read and retain these instructions.*

*To register your product, please go to [www.royalsovereign.com](http://www.royalsovereign.com)*

**Royal Sovereign International Inc.**

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5500 NE Moore Court  
Hillsboro, OR 97124  
Toll Free: 1-800-944-4573  
Local: 503-640-5920

# Graphic Lamination Products

Model RSC-5500H/6500H

## INTRODUCTION

Thank you for choosing a Royal Sovereign laminator. It has been designed and manufactured to provide years of continuous service.

For complete operating and maintenance information please read this manual thoroughly. Upon receipt of your laminator, please inspect the box, the machine and all other contents for shipping damage.

Damage should be brought to the immediate attention of the delivering carrier (See page 6 for list of shipment elements).

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## SAFETY PRECAUTIONS

Failure to comply with any of the following safety procedures could result in serious injury. Please read the instructions carefully and keep for future reference.

1. Only a licensed electrician should install wiring and outlet for the laminator.
2. Ensure the unit is plugged into a properly grounded outlet with the correct voltage.
3. Keep hands and clothing (i.e. Neckties) away from rollers. The rollers have pinch points that can trap body parts or clothing and cause serious injury.
4. Keep flammable and wet objects away from the machine.
5. Place machine on a level surface, then set the moveable feet down to floor to keep the machine steady.
6. Avoid excessive sunlight, humidity and extreme temperatures.
7. Ensure the unit is turned off, cooled, and unplugged from the outlet prior to moving and/or repairing.
8. Keep out of reach of children.
9. Only Royal Sovereign authorized maintenance and service technicians should make repairs.
10. Do not attempt to laminate items that exceed total recommended material thickness for the unit
11. When cleaning the machine, don't use flammable sprays or materials.
12. Do not touch the rollers when they are hot or place foreign objects inside the machine.
13. Do not cover the surface of the machine until the machine has completely cooled.
14. If emergency happen, press emergency switch immediately.
15. Temperature of circumstance:  $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$ ; humidity of circumstance:  $< 95\%$ ( $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$ ).
16.  Warning - Hazardous Moving Parts – Keep Fingers And Other Body Parts Away.

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## INSTALLATION

**Note: The laminator should be installed by a trained service technician.**

The laminator comes fully assembled, except for the feed table and paper guide to avoid shipping damage. Upon arrival, thoroughly inspect the unit. It is imperative that any shipping damage is reported and a claim is filed with the delivering carrier immediately upon receipt.

The laminator should be located in an area with adequate work space for feeding graphics and lamination materials.

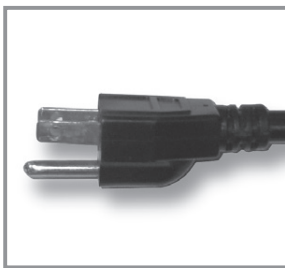
Avoid placing the laminator in a dusty area or near sources of extreme heat or cold.

Once the laminator is in place, lock the casters into position ("ON" and adjust the moveable foots to keep machine steadily position). Always unlock the casters ("OFF" position) when moving to a different location.

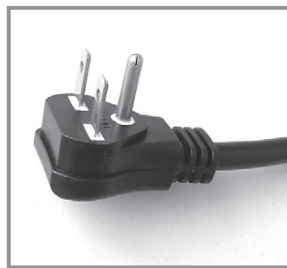
## ELECTRICAL REQUIREMENTS

Royal Sovereign recommends that a licensed electrician ensures proper power installation to your laminator in accordance with electrical codes in your area.

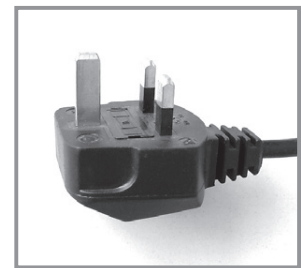
The laminator should have a dedicated power line.



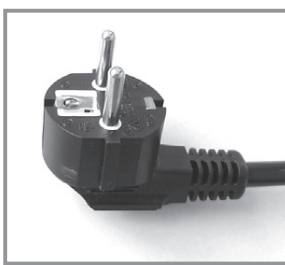
120V UL



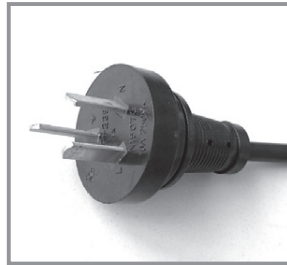
230V UL



240V UK



220V EU

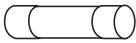


220V AU

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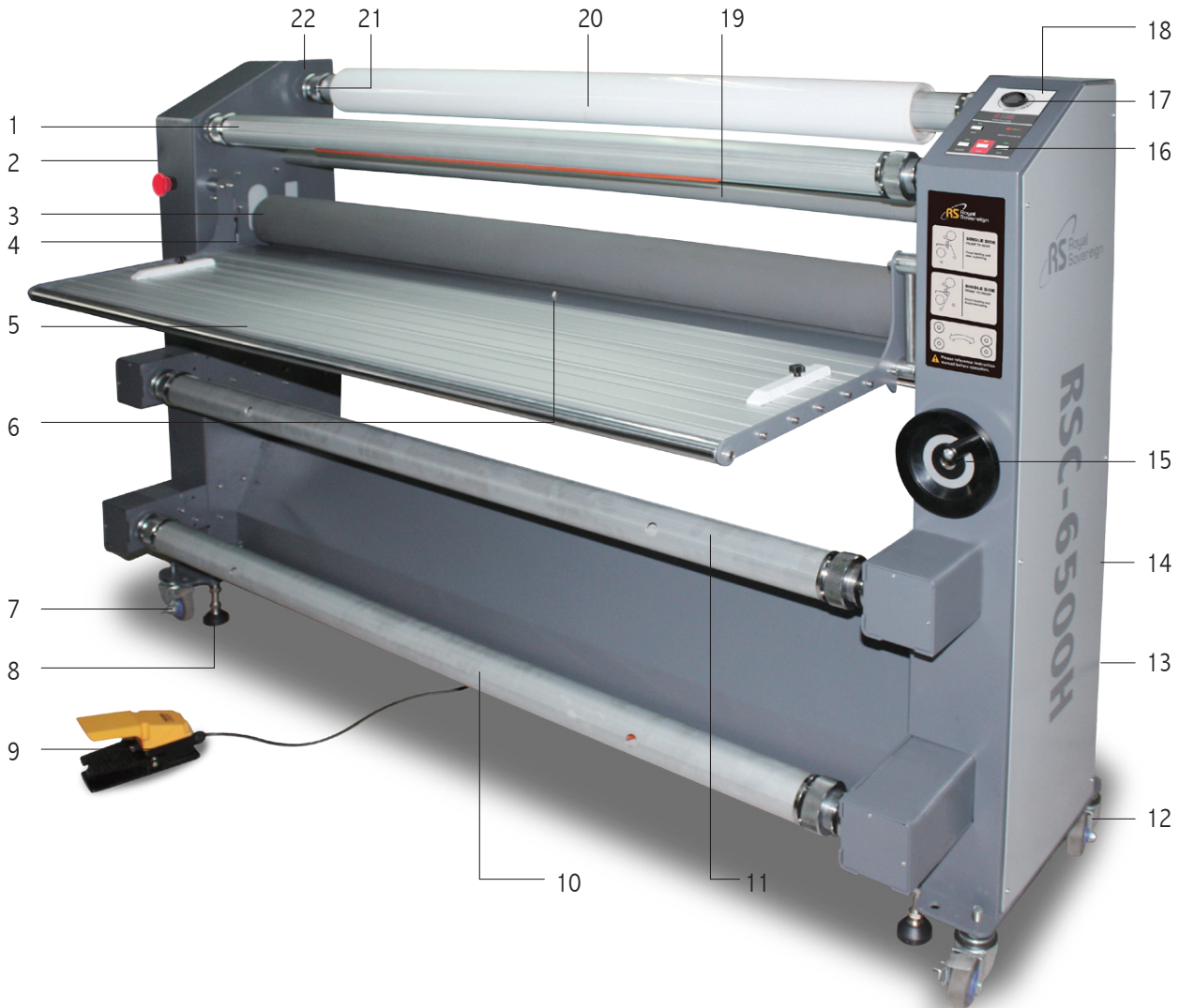
## INCLUDED WITH LAMINATOR

Thoroughly inspect the parts and the unit. It is imperative that any missing parts are reported and a claim is filed with the reseller immediately upon receipt of shipment.

Part Name	Quantity	Picture
Laminator	1	
Owner's Manual	1	
Spare Motor Fuse - FUSE(50T) (6.3A)	1	
Spare Main Power Fuse - FUSE(65TS) 10A/20A	1	

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**PRODUCT IDENTIFICATION**

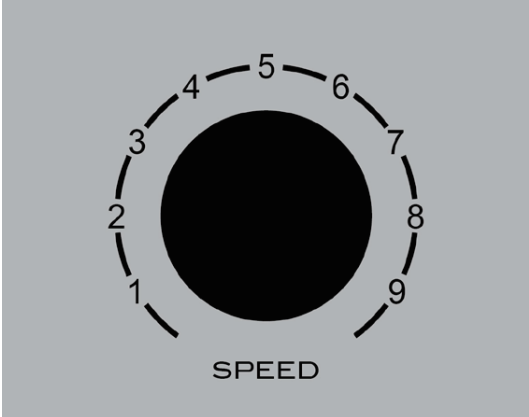

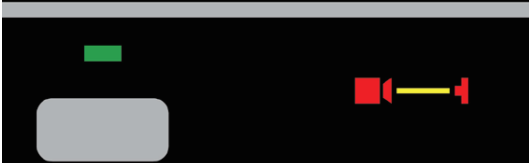





1	Shaf Release Liner	12	Caster (Unlock)
2	Emergency Switch	13	Power Switch
3	Roller	14	Shaft Rear Rewinder
4	Safety Sensor	15	Nip Setting Wheel
5	Table Front	16	Button
6	Speed Sensor	17	Knob Speed Control
7	Caster (Clock)	18	Control Panel
8	Foot	19	Idle Bar
9	Foot Switch	20	Shaft Film
10	Shaft Front Rewinder	21	Stop Ring
11	Shaft Feeder	22	Tension Knob



## OPERATION

### CONTROL PANEL

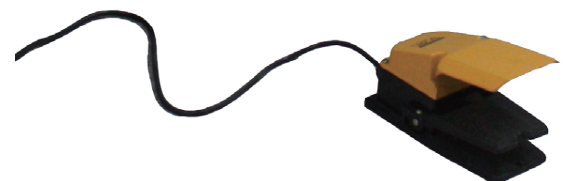
	<p>Pressure</p>	<p>Indicate the roller pressure value(according to the different material and different size to set a reasonable pressure value) from 0~9.</p> <ul style="list-style-type: none"> <li>• See page 11.</li> </ul>
	<p>Heat</p>	<p>To change the mode from cold to hot or oppositely. Temperature for hot mode on upper rpller is max.122°F 50°C.</p>
	<p>Reverse</p>	<p>To reverse the rollers, press and hold the button.</p>
	<p>Speed</p>	<p>Rotate the knob to control the roller's speed from 0 to 8.5m/min. (Ensure the speed sensor is working that something is placed on it. )</p>
	<p>Run</p>	<p>To start the rollers.</p>
	<p>Stop</p>	<p>To stop the rollers.</p>
	<p>Safety</p>	<p>The LED will flash when the beam of the optical safety device at the input side of the nip is not interrupted.</p>

### USING FOOT PEDAL

Place the foot pedal on the floor in front of the machine. Once all correct settings are displayed, you may use the foot pedal to operate the laminator for “Hands Free Operation.”

1. To activate the machine, press the foot pedal once and then release. Repeat to stop the rollers.
2. Press the foot pedal and hold to get slow speed mode to put or set the laminating film or medium.

**Note:** In slow speed mode, the safety laser sensor is inoperative.



## LOADING FILM

**Royal Sovereign films are wound with the adhesive side facing the inside of the roll (adhesive in).**

Loading film to upper film shafts:

1. Loosen the stop ring and take down the film shaft, then load the film and center it on the shaft.

**Note:** The adhesives should be facing you.

2. Load the film shafts on the machine (figure 3) and tighten the stop ring to lock the film shaft to the appropriate location.

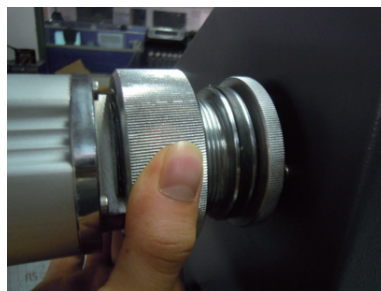


Figure 1

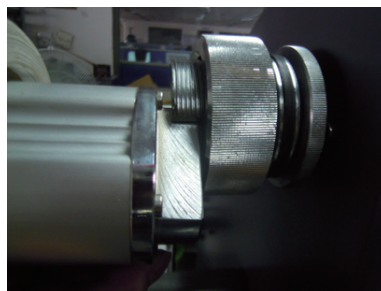


Figure 2



Figure 3

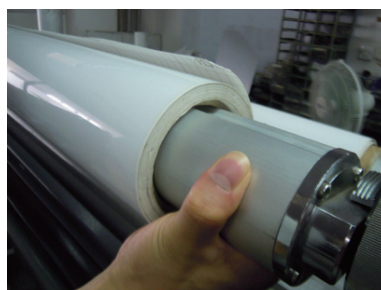
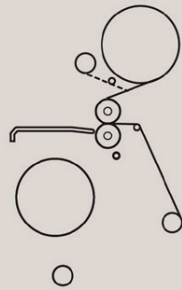


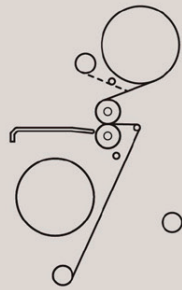
Figure 4

## THREADING FILM AND SETTING NIP GUIDE



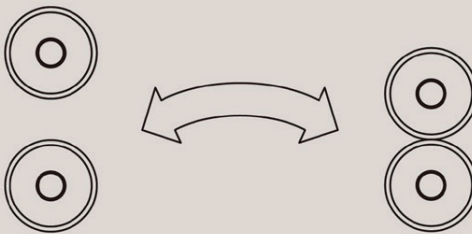
### **SINGLE SIDE FRONT TO REAR**

Front feeding and  
rear rewinding.



### **SINGLE SIDE FRONT TO FRONT**

Front feeding and  
front rewinding.



**Please reference instruction  
manual before operation.**

## **PRESSURE SETTING**

### **Thin images**

The best pressure setting for thin films and images is about 8. During processing the pressure can be adjusted and might be varied.

Caution:

Thin material requires less pressure. Set the pressure proportional to the rigidity of the material between 4 and 8 to avoid permanent compression marks.

### **Panels and foam boards**

When processing panels, a leader panel is used to web the film. This leader panel is at the same time used to preset the pressure.

Use a leader panel of the same material, thickness and width as the panels to process.

1. Set the nip to the thickness of the panel.
2. Feed the leader panel into the nip in slow mode (by press and hold foot switch).
3. When the edges of the film is through the nip, set the pressure to approximately 8 for full-width panel and between 6 and 8 for full-width foam board.

Caution:

For narrower or soft panels set the pressure proportional to the width (rigidity) between 4 and 8. Half width equals 6.

### **\*Backing paper**

The image will add approximately an additional about 1 to 2 to the pressure.

## DECALING

- **Please Adjust the wheel to Change the roller pressure with different Material for the best Laminating quality.**
1. Plugged in and turn the power switch on (“I” position). The Power switch is located on the rear right side of the unit and press the “power” button.
  2. Complete the steps as in the “LOADING FILM” section (see page 10).
  3. Set the top roller to the desired temperature .
  4. Pull the top film down over the table front to the bottom of the craft paper.
  5. Align and center the craft paper to the top film.
  6. Thread the top film underneath the Upper Idle Bar.
  7. Tape the top film on to the Release Liner Take-Up.
  8. Cut and separate the release liner and the film.
  9. Thread the craft paper over the table front to the top film that is resting on the main roller.
  10. Adjust the nip wheel to a appropriate gap.
  11. Insert and push the leader board until they reach the front nip point.
  12. Push the Run button.
  13. Push the leader board into the rollers.
  14. Adjust the film system, take up system, feeding and rewinding system tension knob by rotating it clockwise or counter clockwise. Turn it until the films have some resistance (The tension varies depending on the films thickness). Keep the film and laminating material transmitting and rewinding smooth the more loose the better.
  15. Press the Stop button when the leader board has completely exited from the rollers.
  16. Cut the leader board from the web (see page 9).
  17. Set the nip setting to the appropriate position for the Over-lamination / Decaling application.

## MOUNTING

- **Please Adjust the wheel to Change the roller pressure with different Material for the best Laminating quality.**
1. Lay the decal image face down on a flat surface. Carefully peel back and put a crease along the edge of the release liner.
  2. With the image facing up, align the image onto the board. Press firmly from the center out.
  3. Adjust the pressure lever to ensure the proper opening.
  4. Flip the image over the upper roller and hold on to the release liner.
  5. Press the foot pedal once, and then let it go while slowly pulling the release liner as the board enters the main roller nip. Press the foot pedal once again when the board has completely exited from the rear of the unit. Trim the board if necessary.

## MAINTENANCE

### Cleaning the Body of the laminator

1. To clean the machine body, dampen a cloth with water only and gently wipe the machine clean.

### Removing Adhesive Build Up

1. Remove the film from the laminator.
2. Use a damp (water only) cloth and a rubber gum eraser to remove the adhesive on the Teflon (metal) and silicone rollers.

**Note:** Rub firmly but do not scrub the rollers vigorously as this may scratch the surface.

Do not use sharp metal objects, steel wool, or abrasives, as these may also damage the rollers.

### Lubrication

1. Drive chain and sprockets should be lubricated with either a light coat of gear lube or heavy grease (lithium grease) after 6 months or 1000 hours of operation, whichever comes first.

## TROUBLESHOOTING

Code	Relevant Position	Remark
E1	Emergency switch	Emergency switch are on which are located in both frame chassis.
E2	Temperature sensor	Temperature sensor is broken.
E3	Safety sensor	The safety laser sensor is obstructed by something as wave-paper or clothes and so on.

Sympton	Cause	Possible Solution
Machine will not turn on:	<ol style="list-style-type: none"> <li>a. Power plug is not plugged in.</li> <li>b. Power switch is in "0" (Off) position.</li> <li>c. Tripped circuit breaker.</li> <li>d. Blown main power fuse.</li> </ol>	<ol style="list-style-type: none"> <li>a. Plug the power cord into appropriate outlet.</li> <li>b. Put the power switch to the "I" (On) position.</li> <li>c. Reset the circuit breaker.</li> <li>d. Replace the fuse.</li> </ol>
There is power, but the rollers are not turning after the "RUN" button is pressed:	<ol style="list-style-type: none"> <li>a. Emergency switch(es) is (are) engaged.</li> <li>b. Paper guide is not installed correctly.</li> <li>c. Blown motor fuse.</li> </ol>	<ol style="list-style-type: none"> <li>a. Disengage the emergency switch(es).</li> <li>b. Properly install the paper guide so that the micro switch is activated.</li> <li>d. Replace the motor fuse.</li> </ol>
The unit is not heating up:	<ol style="list-style-type: none"> <li>a. Did not raise the temperature.</li> </ol>	<ol style="list-style-type: none"> <li>a. Raise the temperature.</li> </ol>
Curled lamination:	<ol style="list-style-type: none"> <li>a. Upward curl.</li> <li>b. Downward curl.</li> </ol>	<ol style="list-style-type: none"> <li>a. Loosen the top roll film tension.</li> <li>b. Loosen the bottom roll film tension.</li> </ol>

## SPECIFICATIONS

Description	RSC-5500H	RSC-6500H
Power Supply	AC100V,120V,220~240V,50/60Hz	AC100V,120V,220~240V,50/60Hz
Power Consumption	1450W	1450W
Maximum Laminating width	55"(1400mm)	65"(1650mm)
Maximum Material diameter(Film)	Ø381mm	Ø381mm
Maximum Material diameter(Feeder)	Ø381mm	Ø381mm
Maximum Material diameter(Rewinder)	Ø381mm	Ø381mm
Maximum Laminating speed	8.5m/min	8.5m/min
Ready Time	<20min	<40min
Heating Method	Hot Roller	Hot Roller
Laminating Format	Single	Single
Maximum Temperature	122°F(50°C)	122°F(50°C)
Speed Controller	0~8.5m/min	0~8.5m/min
Space Saving Idea	Yes(Front to Front;Front to Rear)	Yes(Front to Front;Front to Rear)
Film Saving System	Yes	Yes
Film Core	3" Auto Grip	3" Auto Grip
Roller Nip	2"(51mm)	2"(51mm)
Reverse	Yes	Yes
Take up system(Upper)	Yes	Yes
Rewinder(Front & Rear)	Yes	Yes
Front Feeder	Yes	Yes
Unit Dimension (w × d × h)mm	1950×1000×1400	2200×1000×1400
Unit Weight	260kg	345kg

## WARRANTY

Royal Sovereign International warrants the equipment sold is free from defects in material and workmanship for a period of One (1) year for Parts and Labor from the date of installation, excluding lamination rollers which are warranted for Six (6) months. This warranty is extended only to the original purchaser. This warranty is the only warranty made by Royal Sovereign International and cannot be modified or amended. Royal Sovereign's sole and exclusive liability and the customer's sole and exclusive remedy under this warranty shall be, at Royal Sovereign's option, to repair or replace any such defective part or product. These remedies are only available if Royal Sovereign's examination of the product discloses to Royal Sovereign's satisfaction that such defects actually exist and were not caused by misuse, neglect, attempt to repair, unauthorized alternation or modification, incorrect line voltage, fire, accident, flood or other hazard.

All warranty claims must be filed through the authorized Royal Sovereign dealer or reseller through which the equipment was originally purchased. Model, serial number and date of delivery are required for all claims.

The warranty made herein is in lieu of all other warranties, expressed or implied, including any warranty or merchantability or fitness for a particular purpose. Royal Sovereign will not be liable for personal damage or personal injury (unless primarily caused by its negligence), loss of profit, or other incidental or consequential damages arising out of the use or inability to use this equipment.

## LIMITED WARRANTY

This warranty specifically does not cover damage to laminating rollers caused by knives, razor blades, or any sharp objects or abrasives, or failure caused by adhesives, or damage caused by lifting, tilting or improper use of the machine. Warranty repair or replacement by Royal Sovereign or its authorized Reseller(s) does not extend the warranty beyond the initial one year period from the date of installation. Unauthorized customer alterations will void this warranty.

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