



OWNER'S MANUAL

Desk Top RSH-380SL Laminator



Read all instructions carefully before use.

For any Customer Support needs please choose the
Customer Support tab on www.royalsovereign.com

Royal Sovereign International Inc.

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1. INTRODUCTIONS

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 3 for list of shipment elements).

2. SAFETY PRECAUTIONS

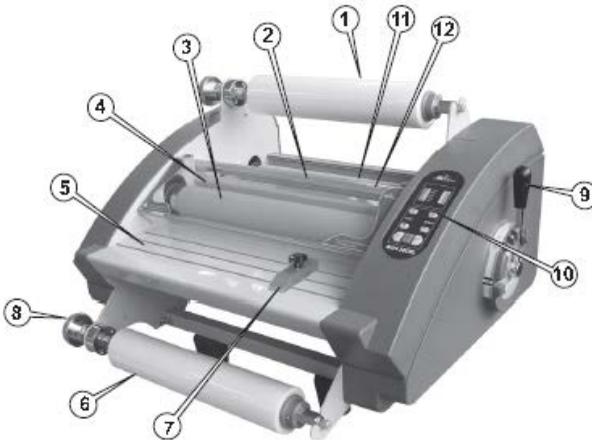
Failure to comply with any of the following safety procedures could result in serious injury. Please read the instructions carefully and keep for future reference.

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.
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.
13. Do not place foreign objects inside the machine.
14. Do not cover the surface of the machine until the machine has completely cooled.

3. INCLUDED WITH LAMINATOR

PART NAME	EA	REMARK	PART NAME	EA	REMARK	PART NAME	EA	REMARK
FUSE(65TS) (AC250V 10A)	1	Power supply: 220V~240V	FUSE(65TS) (AC250V 20A)	1	Power supply: 100V~110V	FUSE(65TS) (AC250V 15A)	1	Power supply: 120V

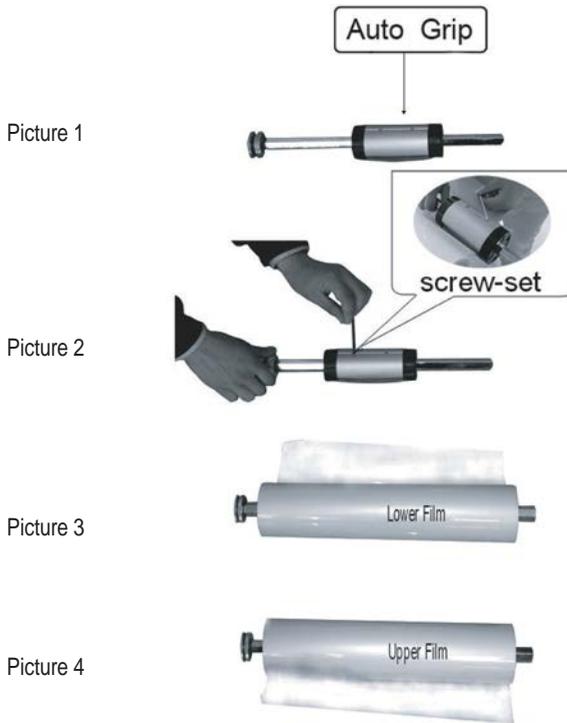
4. PRODUCT IDENTIFICATION



NO	PART NAME	NO	PART NAME
1	UPPER FILM	7	GUIDE-DOCUMENT
2	IDLE BAR	8	HANDLE-TENSION
3	HOT ROLLER	9	PRESSURE LEVER
4	SAFETY COVER	10	CONTROL PANEL
5	FRONT-TABLE	11	DECURLING BAR
6	LOWER FILM	12	IDLE BAR

* No. 11,12 are only designed for "S" model.

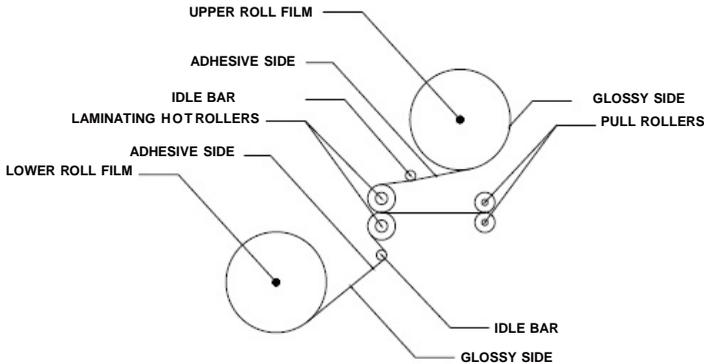
5. LOADING FILM



1. As shown in picture 1, insert auto grips onto the upper/lower film shaft.
2. As shown in picture 2, using the special tool, fix the auto grips on the film shaft with set-screws.
3. Set the glossy side of the upper and lower film towards the heat rollers.
(Glossy side is PET film and matte side is thermal polymer laminating adhesive)
4. Center film as shown in picture 3 and 4.

6. THREADING FILM

6.1. HOT FILM DOUBLE SIDED LAMINATING



1. Turn the power switch on ("I" position). Power switch is located in the rear of the unit on the left side.
2. Turn on the lower hot roller by pressing S/D button on the control panel. This button will be lit when the lower heat is on.
3. Complete the "Loading Film" steps as shown on page 4.
4. Set the temperature and speed according to the Recommended Temperature and Speed section.
5. Remove the Front Table.
6. Pull down the upper film over the Safety Cover to the lower film; align and center the lower film to upper film (Picture 1).
7. Rewind the upper film until the film aligns with the Safety Cover.
8. Thread the film under the Upper Idle Bar and underneath the Safety Cover until the film rests on the upper roller (Picture 2).

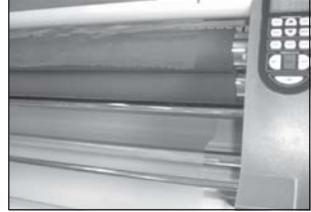


Picture 1



Picture 2

8. Carefully pull up the laminate from the lower roll up towards the first idle bar and then around the back side of the second Idler (Caution: lower roller may be hot).(Picture 3)
9. Tack the lower film to the upper film that is resting on the main hot rollers (Picture 4).
10. Reinstall the Front Table and close the Safety Cover.
11. Adjust the nip setting to 1/4" (6mm).
12. Insert and push the leader board into the hot rollers (Picture 5).
13. Adjust the nip setting to "Laminating" mode.
14. Push the Run button.
15. Press the Run button and adjust the supply roll tension knobs by rotating clockwise or counterclockwise. Turn it until the supply roll films have some resistance (the tension varies depending on the film thickness; the thicker the film the more tension is required) (Picture 6).
16. Press Stop button when the leader board has completely exited the rear of the unit.
17. Use the Cross Cutter to cut the leader board from the web (see page 18).
18. Peel Trim any excess film off of the leader board edges. The leader board can be reused.
19. Set the roller nip setting to the appropriate position for the lamination or encapsulation application.



Picture 3



Picture 4

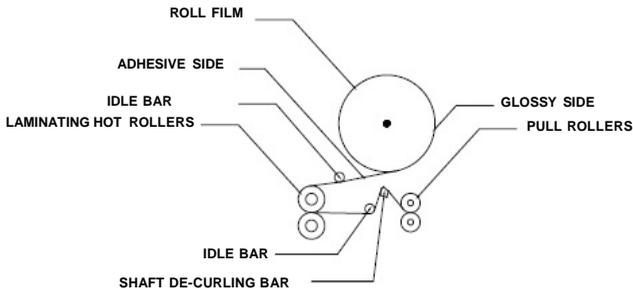


Picture 5



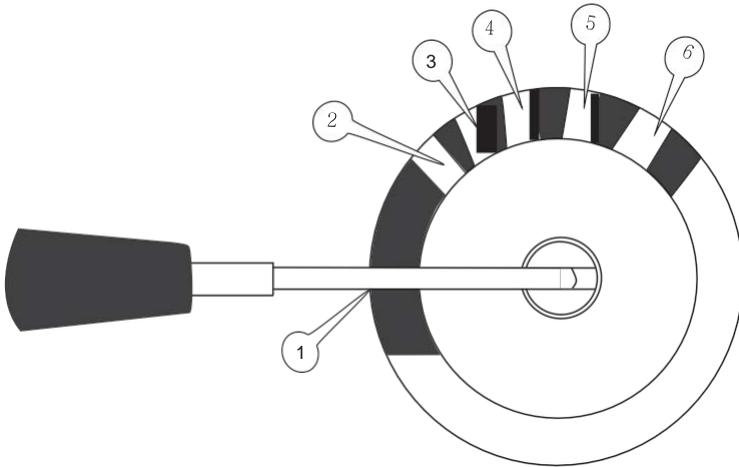
Picture 6

6.2. HOT FILM SINGLE SIDED LAMINATING



1. Turn the power switch on("I" position). Power switch is located in the rear of the unit on the left side.
2. Follow the steps in the "Loading Film" procedure by loading the upper shaft with OPP Film.
3. Set the temperature and speed as shown as the recommended in page 13.
4. Center the OPP film.
5. Thread the film under the Upper Idle Bar and underneath the Safety Cover until the film rests on the upper hot roller.
6. Pull a sheet of A3 paper into the laminating roller and pass under the idle-bar and over the shaft-decurling bar. Make sure the idle-bar being in the lower location while laminating.
7. Link the paper to the film.
8. Adjust the nip setting to "Laminating" mode.
9. Press the run button and adjust the supply roll tension knobs by rotating clockwise or counterclockwise. Turn it until the supply roll films have some resistance(the tension varies depending on the film thickness: the thicker the film the more tensions is required) (Picture 6).
10. Stop the laminator when all of the laminated items have completely exited the rear of themachine.

7. CONTROL OF ROLLER PRESSURE



To set, pull the pressure lever outward and turn to one of the following positions.

1. OPEN: For detaching and cleaning rollers.
2. 6MM: For laminating 6mm[0.24in] thick board.
3. 5MM: For laminating 5mm[0.2in] thick board.
4. 3MM: For laminating 3mm[0.12in] thick board.
5. 1.5MM: For laminating 1.5mm[0.06in] thick board.
6. LAMINATING: For laminating 25~250micron(1~10mil) thick film.

8. CONTROL PANEL

LED Display

1. TEMPERATURE DISPLAY: Display current temperature.
2. SPEED DISPLAY: Display current Speed.
3. To change the roller's temperature up or down.
(Range 110°C-150°C and 5 degree for a level.)
4. To change the speed of rollers. (Range 1-9)
5. REV: To reverse the rollers. Must press and hold the button to activate.
6. RUN /STOP: To start or stop the rollers from turning.
7. S/D: Single laminating/Double laminating.

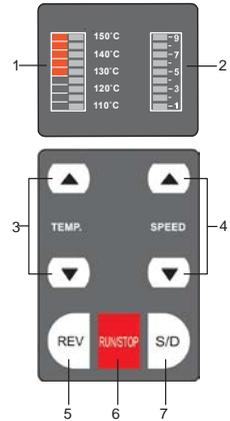
NOTE: *1.Only one roller is heating while turning on the main power switch. Please press the button "S/D" for two sides laminating and the LED-light is bright at once.

*2. STAND-BY MODE and AUTO POWER OFF MODE

STAND-BY MODE: If no activity is made within 30 minutes after each use the machine will automatically switch into stand by mode (In stand-by mode the temperature will decrease to 80-90 °C (176-194°F) and every other LED light of the temperature and speed will be lit.

AUTO POWER OFF MODE: If the machine is in stand by mode and no activity is made for 60 minutes the machine will automatically power off (Only the No.1 speed LED lights).

-If any activity is made while in stand by or auto power off mode the machine will return to it's previous stage.



9. LAMINATING STEPS

9.1. HOT LAMINATING

LED Display

1. Turn on the power switch located on the rear of the machine.
2. Set the pressure lever to the "Laminating mode".
3. Adjust the roller temperature in accordance with the film type.
4. When the desired temperature is met that the LED-LIGHT will be stopped instead of flashing.
5. Press the "RUN/STOP" button once, the rollers should begin to turn, if not you should make sure the safety cover is closed or check the troubleshooting section of the manual.
6. Use the upper and lower Tension knobs to properly adjust the tension of the roll film. Having the tension too tight will slow down or prevent the rollers from turning and if the tension is set too low this can cause wrinkles in your lamination.
7. For ease and convenience to set the document guides in position.
8. Set document on the table.
9. Press "RUN/STOP" button once again when lamination is completed.
10. When lamination is completed your item may be hot and can easily bend. Lay on a flat surface to properly cool.
11. When you have completed all of your lamination, set the pressure lever to the OPEN position.
12. Turn the Power switch off.

----- Useful information -----

1. When laminating continuously the temperature LED light may flash. If this occurs lower the speed by 1 increment. The flashing of LED should stop and you may continue laminating.
2. When laminating a document much smaller than the film, place the document in the center of the film for better lamination result.
3. Please set the pressure lever in the open position if the laminator will be idle for more than a few minutes. Leaving the rollers closed under full pressure without turning for more than a few minutes may damage the hot roller.

10. USING CROSS CUTTER

The cross cutter is located on the rear exit table of the machine.

1. After lamination, move the cutter approximately to the center of the completed application at the desired point of detachment (Figure 1).
2. Grasp film with one hand, press the cutter downward into the application and slide it first to one end of the application, then to the other end to complete the cut (Figure 2 & 3).

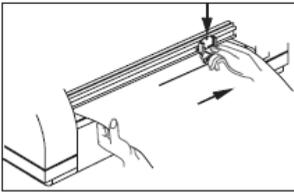


Figure 2

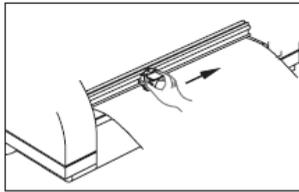


Figure 1

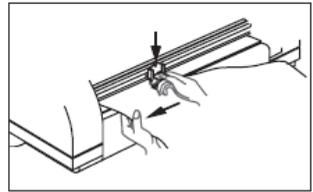


Figure 3

11. MAINTENANCE

Cleaning the Body of the laminator

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 hard rubber block (crepe rubber or sandpaper belt disc cleaning block)
3. Rub firmly but do not scrub the roller vigorously as this may cause scratch the surface.
4. Do not use any sharp objects, steel, wool or abrasive, as these may damage the rollers

NOTE: Adhesive removes easily when hot. Please use caution when cleaning hot rollers

12. TROUBLESHOOTING

Symptom	Cause	Possible Solution
Machine will not turn on:	<ul style="list-style-type: none"> a. Power switch is in "0" (Off) position b. Tripped circuit breaker. c. Blown main power fuse. 	<ul style="list-style-type: none"> a. Put the power switch to the "I" (On) position b. Reset the circuit breaker. c. Replace the fuse.
There is power, but the rollers are not turning after the "RUN" button is pressed:	<ul style="list-style-type: none"> a. Safety cover is not closed. b. Blown motor fuse. 	<ul style="list-style-type: none"> a. Close the safety cover to active the safety switch. b. Replace the motor fuse.
The unit is not heating up	Call your authorized dealer	Call your authorized dealer
Curled lamination:	<ul style="list-style-type: none"> a. Upward curl. b. Downward curl. 	<ul style="list-style-type: none"> a. Loosen the top roll film tension. b. Loosen the bottom roll film tension. c. Please put the lamination pass through the DE-CURLING bar for Single laminating
Unclear lamination:	The main roller temperatures are too low and/or lamination speed is too fast.	Raise the roller temperatures and/or lower the lamination speed.

13. RECOMMENDED TEMPERATURE AND SPEED

NO	Film thickness	Temp	Speed	Remark
1	Opp film 32 micron(1.3mil)	110°C (230°F)	1,2	
2	Opp film 32 micron(1.3 mil)	120°C (248°F)	2,3	
3	Opp film 32 micron(1.3 mil)	140°C (284°F)	5	
4	38 micron (1.5 mil)	110°C (230°F)	1 - 5	
5	75 micron (3 mil)	110-115°C (230-240°F)	1 - 5	
6	100 micron (4 mil)	115°C (239°F)	1 - 3	
7	125 micron (5 mil)	120-125°C (248-257°F)	2 - 5	
8	250 micron (10 mil)	140-150°C (284-302°F)	1 - 4	

NOTE: Speed and temperature should be adjusted in accordance with film manufacturer's recommendations.

14. SPECIFICATION

Description		RSH-380SL
Power supply		AC 100~120V/220~240V, 50/60Hz
Power consumption		1200W
Display method		LED
Max. laminating width		380 mm / 15"
Film thickness		25~250 mic, OPP film 32mic
Mounting thickness		6 mm
Paper thickness	Single	200~250g
	Double	80~250g
Max. laminating speed		9 settings
Drive method		DC motor
Ready time		8 min
Laminating method		Thermal
Max. Temperature		150°C
Hot laminating	Single	Yes
	Double	Yes
Cross Cutter		Yes
Film core size		Auto-grip 2.25" and 3"
Unit dimensions (w x d x h)		620*540*470 (mm)
Unit weight		46kg

15. 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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