

Royal Sovereign LAMINATORS

OWNER'S MANUAL

RSH-1050/1650 ,RSR-685/1050



PLEASE READ AND SAVE INSTRUCTIONS

TABLE OF CONTENTS

TOPICS	PAGE
INICTELLOTION	
INSTRUCTION	`
SAFETY PRECAUTIONS	
CHARACTERISTICS	
SPECIFICATIONS	
NAMES OF MAJOR PARTS OF MACHIN	
HOW TO INSTALL THE REWINDER	6~7
HOW TO INSTALL THE UNWINDER	{
SETTING UP FILM	
HANGING FILM	10
1.HOT FILM	10
2.COLD FILM	1 ⁻
CONTROL OF ROLLER PRESSURE	12
INSTRUCTIONS FOR CONTROL PANEL	1;
1.LCD WINDOW	14
2.FUNCTIONS OF BUTTONS	1 <u>:</u>
3.HOW TO USE BUTTONS	16~19
LAMINATING STEPS	20
1.HOT LAMINATING	20~2
2.COLD LAMINATING	22
TIPS FOR REMOTE CONTROL AND FOOT SWITCH	23
METHOD FOR USING CUTTER	23
*.CROSS CUTTER	23
IMPORTANT SAFETY CONCERNS	24
MAINTENANCE	24
IT'S NOT OUT OF ORDER	25
SPARE PARTS	
WARRANTY	
SPEED & TEMPERATURE ADJUSTMENT	2 ⁻

INSTRUCTION

Thank you for purchasing a Royal Sovereign Roll Laminator. It has been designed and manufactured to provide years of continuous service in the professional environment. To insure high quality lamination, please read this instruction manual thoroughly. This manual will provide you with complete operating and maintenance information. For additional product support or factory-direct ordering information. Call Royal Sovereign Customer Service at 1-800-397-1025.

SAFETY PRECAUTIONS

The safety recommendations outlined in this section are to be read, understood and followed before operating machine. Keep this information for future reference. Failure to comply any of the following safety procedures could result in serious personal injury.

- 1. To prevent the possibility of electrical shock, do not immerse machine in water or permit liquids to spill inside.
- 2. Do not allow articles of clothing (neckties, scarves, papers, etc.) near front or rear machine openings as they could get caught by rollers and be pulled inside, causing personal injury.
- Do not insert sharp objects into front or rear machine openings. Do not place anything in feed tray openings of machine other than appropriate laminating materials or pouches.
- 4. Do not attempt to laminate items that exceed total recommended material thickness.
- 5. Do not operate machine for any other purposes than its intended use.
- 6. Do not operate machine if electrical plug or power cord is damaged.
- 7. Turn off the power when unattended or not in use. Unplug machine before moving it or when it is not in use for an extended period of time.
- 8. This machine is intended for indoor use only.
- 9. Do not alter or extend electric plug. Plug is configured for appropriate electrical supply.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.

CHARACTERISTIC

RS Roll Laminator Line is advanced laminators with time transcendental design, utilizing the latest in laminating technology.

It is designed for you to set temperature and speed as necessary and have the machine remember your settings. Also, you can laminate anything at high speed, regardless of thickness of material and type of film.

Remote control device allows for control of the machine from the front or rear. Foot-Pedal Switch allows for hands-free operation.

It is also designed for convenient use by anyone through the simple procedure of adjusting film tension in accordance with the thickness of film and materials to be laminated.

SPECIFICATIONS

Description	RSH-1650	RSR-1050	RSH-1050	RSR-685	
Dimensiona(w.v.d.v.h.)	1960x650x1210mm	1400x650x1220mm (55.1x25.6x48.0in)		1070x650x1220mm	
Dimensions(w x d x h)	(77.2x25.6x47.4in)			(42.1x25.6x48.0in)	
Weight	300Kg	0Kg 140Kg		100Kg	
vveignt	(660lbs)	(308	.6lbs)	(220.5lbs)	
Voltage/Cycles		AC100~12	0V, 50/60Hz		
voltage/Cycles		AC220~ 24	0V, 50/60Hz		
Power Consumption	3300w	300	00w	2000w	
Max. Laminating Speed	2m/min	4m/min	2m/min	4m/min	
Max. Laminating Opecu	6.5ft/min	13.1ft/min	6.5ft/min	13.1ft/min	
Max. Laminating Width	1650mm	1050	0mm	685mm	
Wax. Laminating With	(64.9inch)	(41.3	Binch)	(27inch)	
Max. Laminating Thickness	15.0mm			13.0mm	
Max. Laminating Thickness	(0.6inch)			(0.5inch)	
Film thickness		32 - 25	0micron		
i iiii üliokiless		(1.3-	10mil)		
COLD and WARM Laminating	Yes	Υ	es	Yes	
Cooling Blowers	3	:	2	1	
Take-Up	Yes	Υ	es	Yes	
Film Alignment	No	Y	es	Yes	
Cutter-Cross	Yes	Yes		Yes	
Ass'y Stand	Yes	Yes		Yes	
Switch-Foot	Yes	Y	es	Yes	
Wired Remote Control	Yes	Υ	es	Yes	

NAMES OF MAJOR PARTS OF MACHINE



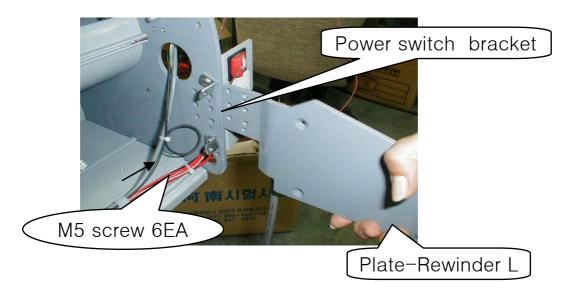
NO	PART NAME	RSH-1650	RSH-1050	RSR-1050	RSR-685
1	FRAME-GUIDE,PAPER	0	0	0	0
2	TAKE-UP SWITCH	0	\circ	\circ	\circ
3	TAKE-UP BOBBIN	0	\circ	0	\circ
4	IDLE BAR	0	\circ	0	\circ
5	TABLE-FRONT	0	\circ	0	\circ
6	HOT ROLLER	0	\circ	Χ	Χ
0	HOT METAL ROLLER	Х	Χ	0	\circ
7	ASS'Y-STAND	\circ	0	0	\circ
8	FOOT SWITCH	\circ	0	0	\circ
9	REMOTE CONTROL SWITCH	\circ	\circ	0	\circ
10	CONTROL PANEL	0	\circ	0	\circ
11	PRESSURE LEVER	0	\circ	0	\circ
12	TENSION CONTROL KNOB	0	0	0	0
13	FILM ALIGNMENT KNOB	Х	0	0	0
14	SAFETY COVER	\circ	\circ	0	\circ

How to install the rewinder

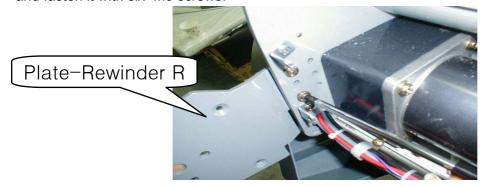
1. Disassemble both the Right cover and the Left cover. (Note :Turn the fastening nut of the Emergency switch counterclockwise and disassemble the Emergency switch before disassembling the Right cover.)



- 2. Disassemble the Rear cover.
- 3. Disassemble the power switch bracket which is located at the left side of the machine.

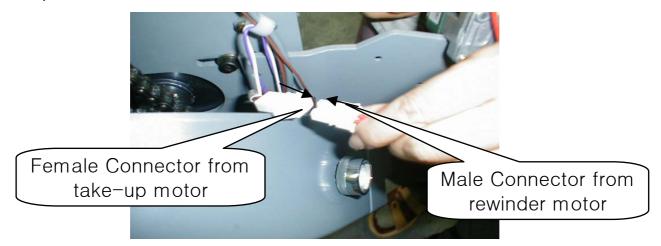


- 4. Put the Plate-Rewinder L on the outer side of the frame as shown in the following figure and fasten it with six M5 screws.
- 5. Put the Plate-Rewinder R on the outer side of the frame as shown in the following figure and fasten it with six M5 screws.

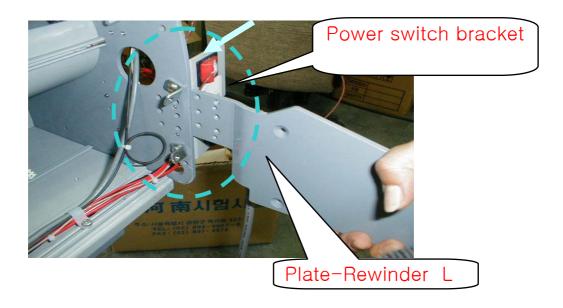


6. Insert the male connector from the Rewinder motor into the female connector from the

take -up motor.



- 7. Assemble the Right cover letting the wires go through the slot which is located at the rear side of the Right cover.
- 8. Put the Power switch bracket on the Plate-Rewinder L and fasten it with two M4 screws.



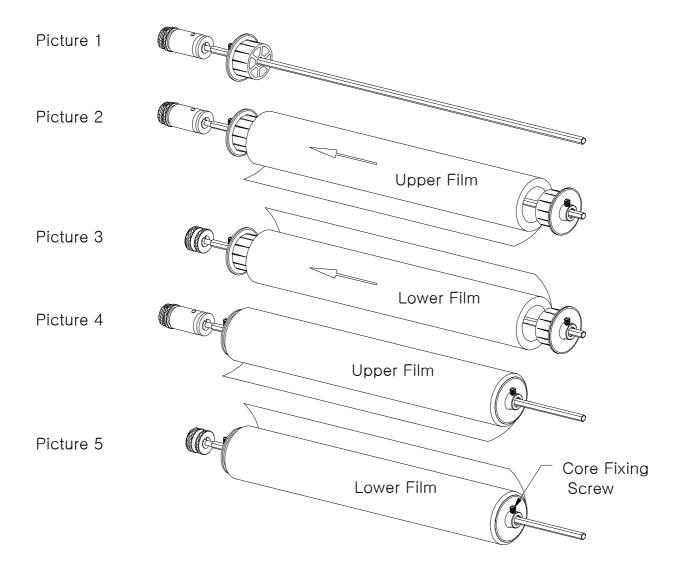
1. Put the Plate-Unwinder R on the inner side of the frame as shown in the following figure and fasten it with four M6 hexagonal bolts.

Plate-Unwinder R



2. Put the Plate-Unwinder L on the inner side of the frame as shown in the following figure and fasten it four M6 hexagonal bolts.





1. Set the glossy side of upper/lower film to face the heat.

(Glossy side is PET film and matte side is thermal polymer laminating film.)

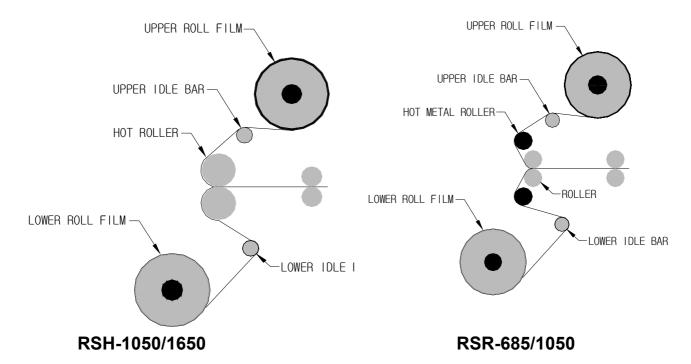
- 2. Like picture 1, insert core into the left side of upper/lower film shaft.
- 3. Like picture 2 and 3, insert core into the right side of upper/lower film.
- 4. Like picture 4 and 5, adhere core closely.

(Make the right/left direction of fixing screw consistent.)

5. Locate film in the middle, and then fasten core fixing screw.

HANGING FILM

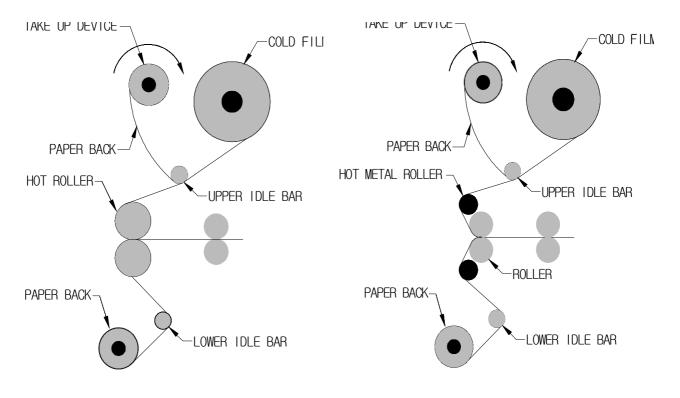
1. HOT FILM



- 1. Insert bar into the core of the roll film then place the bar on the machine.
- 2. Place the Pressure Lever (on the right side of machine) to the open mode at 15mm.
- 3. Insert a piece of wide cardboard (guiding paper/carrier) between the rollers.
- 4. Pull the film from the upper roller passing over the upper idle bar to the upper roller and put it on the roller.
- 5. When temperature reaches 80° C (176°F) , resin starts melting and films turn to be transparent.
- 6. Place the film from lower shaft beneath the film from the upper roller which is already melting and unwind films of both rollers 30~40Cm(1~1.3ft) for loosing the tension.
- 7. Set the pressure Lever to the 1mm.
- 8. Set speed at 1 and press Run button. The films will be fed into the machine and will come out from the rear site of machine.
- 9. Check the status of lamination and place the pressure lever at lamination mode.

2. COLD FILM

TAKE UP DEVICE TAKE UP DEVICE TAKE UP DEVICE DEVICE DEDNord - Istedgade 37A - 9000 Aalborg - Telefon 9633 3500

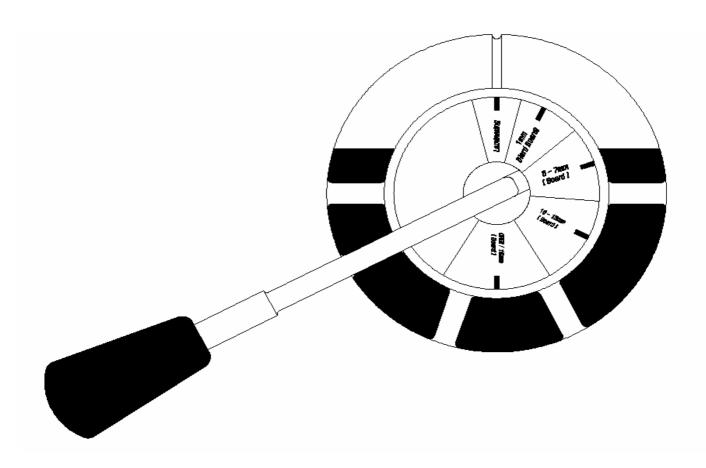


RSH-1050/1650

RSR-685/1050

- Set up cold film below the upper bar of the machine
 (Set the same as method of HOT film for protect paper of lower part)
- 2. Set the pressure Lever to the 15mm, open mode
- 3. Insert a piece of wide cardboard (guiding paper/carrier) between the rollers
- 4. Pull the film from the upper roller passing over the upper idle bar to the upper roller and put it on the upper roller.
- 5. Put the paper back of the film to the bobbin at take-up bar to rewind the paper back.
- 6. Allow some of the film with melted resin to stick to the Guiding Paper.
- 7. Place the film from lower shaft beneath the film from the upper roller which is already melting and unwind films of both rollers 30~40Cm(1~1.3ft) for loosing the tension.
- 8. Set the pressure Lever to the 1mm
- 9. Set speed at 1 and press Run button. The films will be fed into the machine and will come out from the rear site of machine
- 10. Check the status of lamination and place the pressure lever at lamination mode

CONTROL OF ROLLER PRESSURE



***Methods of controlling pressure of the roller**

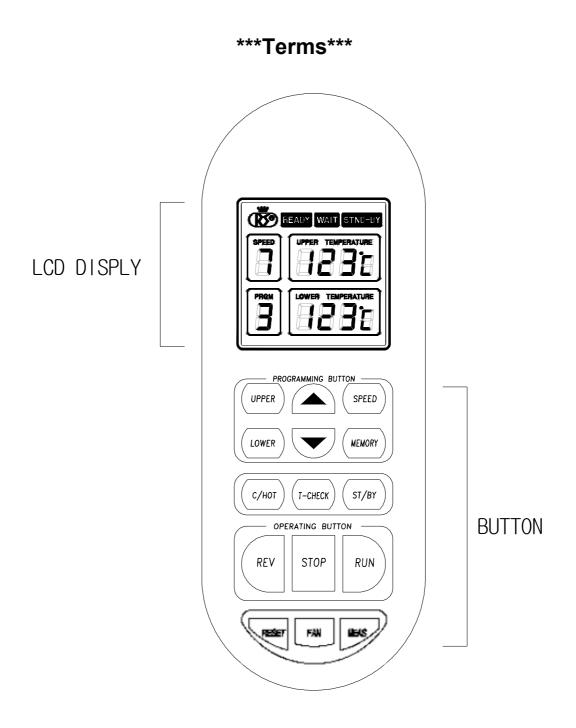
- 1. For setting, pull the pressure lever out and turn the lever to following the indication
- 2. Open/15mm : for laminating 15mm(0.6") thick board (RSH-1050/1650)
- 3. 10~13mm : for laminating 10~13mm (0.4" to 0.5") thick board
- 4. 5~7mm : for laminating 5~7mm(0.2" to 0.27") thick board
- 5. 1mm: for laminating 1mm(40mil) thick board
- 6. LAMINATING: for laminating 32~250micron thick film

INSTRUCTIONS FOR CONTROL PANEL

We designed this machine standing by user's convenience. You can manipulate

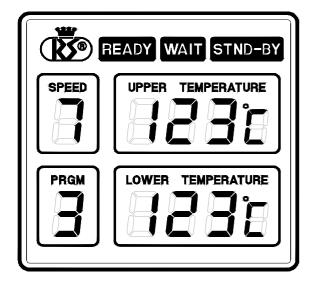
speed and temperature of rollers each by each by the LCD controller.

And with memory function, you don't need to set machine every time you laminate.



1.LCD WINDOW

1. Initial display status.



It displays you the last working condition when turned on.

2. READY

Is displayed when the preset temperature is reached.

WAIT Blinking
 Indicates to wait till blinking stops.
 Current temperature is higher or lower than the preset temperature.

4. STND-BY

Saving electricity status.

- 5. Temperature
 - 1) Shows the preset temperature
 - 2) You can check the current temperature on the heat shoe by pressing T-Check
- 6. Speed

*9 different speed option.

"RSH" type---(SPEED1->0.4m(1.3ft)/min.

SPEED9-> 2.0m(6.5ft)/min.)

"RSR" type---(SPEED1->0.8m(2.6ft)/min.

SPEED9-> 4.0m(13.1ft)/min.)

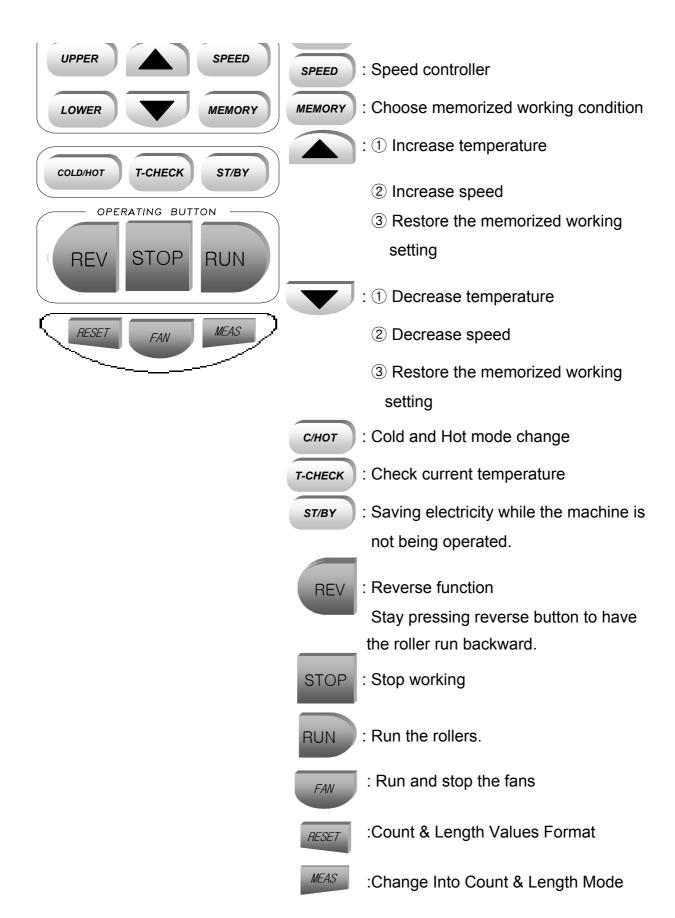
*You can choice from1to4 for Cold Function

7. PRGM

*9 different memory cell (address)
You can memorize 9 different working conditions.

2. FUNCTIONS OF BUTTONS





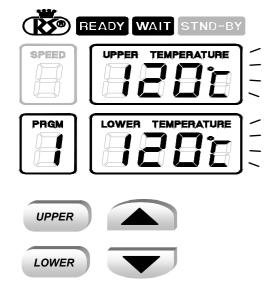
3.HOW TO USE BUTTONS

Set the upper/ lower hot rollers

Rutton & Dienlay

1. Temperature available range from 0°C (32°F)





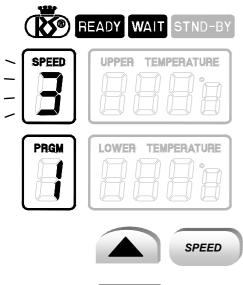
to 160°C (320°F).

- 2. Temperature setting of upper roller

 Press UPPER and you will see the LCD screen is blinking 6 times. Before blinking is finished, press or to set the temperature
- 3. Set temperature of lower roller

 Press LOWER and choose the arrow button the same way to set temperature of upper roller.
- Each time you press the button, it will change 1°C (2°F). If you press the button more than 1 seconds, temperature will change automatically until you press the button again.
- 5. Buzzer is ringing each time you press the button.

***Speed controls



- 1. The operator can use 9 different lamination speeds.
- 2. Press SPEED button then speed display mode is blinking 6 times

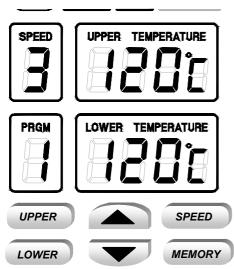
 Before blinking finish, the operator can change the speed with or
- 3. Each time you press the button, buzzer will ring.

Memorizing Working condition and Using the memorized working condition



1) Memorize working condition

UPPER TEMPERATURE | - 16 -

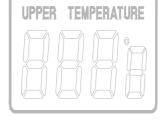


- 1. Operator can memorize 9 working conditions.
- 2.Choose working condition by pressing and button after pressing MEMORY button.

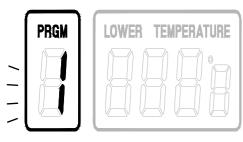
and speed, press MEMOR button.

- 3.It is memorized if buzzer is ringing with blinking.
- * If you change the temperature or speed when LCD screen is still blinking, you have to press button after changing.
- 4. When you memorize another working condition, you can do above 2 and 3 operation over.





2) Use the memorized working condition.



- 1. Operator can choose one of 9 memorized working conditions.
- 2.Press **MEMORY** then or to select a working condition. The display will blink.



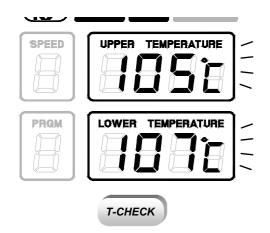
3.After the blinking stops, it is set the working condition you selected and shows the working condition on the display.

Check current temperature on the hot rollers.



UPPER TEMPERATURE

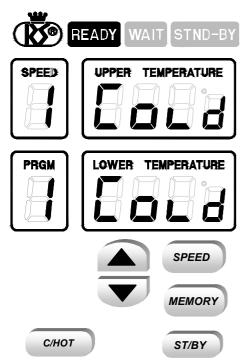
1.When you press *T-CHECK* button, the present temperature will be shown on the screen and will



blink five times.

2.After this, it automatically returns to the previous state.

Cold mode

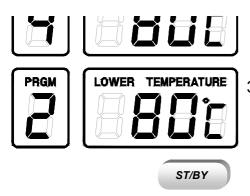


- 1. You can do cold lamination with this function.
- 2.Press the *с/нот* button to show "Cold" on the display.
- 3. Speed will always show 2.
- 4.Speed can be varied 1 or 4 by selecting
 - button.
- 5. You release the machine from cold mode by pressing *с/нот* button.
- 6. Everytime you press the button, buzzer is ringing
- 7.ST/BY mode is not working at COLD mode.

STND-BY (Saving Electricity while you are not operating for a while)



- 1. When press ST/BY button STND-BY will display on the screen and STND-BY mode is set at 80C.
- 2. When machine is in ___ 18 __

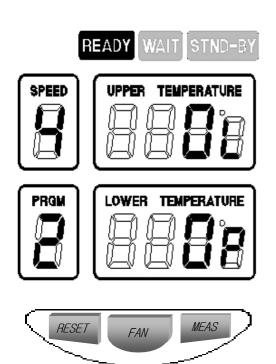


condition wouldn't work. Press the st/BY button and it will revert to the previous working.

3. When machine runs, you can't change it to the STND-BY mode.

In this case, press the STOP button and turn the machine to the STND-BY mode.

Check the laminating length & How many laminated papers



- 1. When press button the present numbers of length and papers laminated will be shown on the screen.
- 2. When you want to return to working mode Press MEAS button again.
- 3.Also, you can reset measure mode by pressing button.(for 2 second)

LAMINATING STEPS

1. HOT LAMINATING

Turn the power switch on the back side of the machine.
 (Emergency Switch must be turned off)

- 3. Increase roller temperature. If you already memorized special working condition, press MEMORY button and choose right condition by using or
- 4. When it's ready, you will see ready sign on the screen and the buzzer will ring.
- 5. Press the RUN button. If rollers don't run, check the emergency switch whether it is located at "ON" position or not.
- 6. To set film tension properly, use the Tension Control Knob. Lower tension would make better operation.

2. Set the pressure lever to the "Laminating mode"

button.

- 7. Set document on the table. You should allow at least 5mm(1/4") space on each side for perfect laminations.
- 8. Press the STOP button when your lamination is finished.
- 9. For your convenience, it would be better to set table guide in proper position.
- 10. When lamination is just finished, it is hot and easily bent. Try not to touch it until it cools down.
- 11. After finishing your work, set the pressure lever to the "Hard Board/15mm"
- 12. Turn the Power switch off

Useful Information

- 1. It would be easier for you to operate the machine next time if the temperature and the speed are set at the best condition and memorized by the using MEMORY function.
 - 2 **WAIT** sign may appear on LCD window in the case continuous laminating.

If it happens, the speed needs to be lowered by one speed level and started again after **READY** signal on the LCD window.

- 3. In case of wrinkling or rolling of film due to wrong position of document,
 - is needed to be keeping pushed in order that document could come out to the front with buzzer sound.
- 4. When document is much smaller than film, you should place it in the middle of film for preventing wrinkle
- 5. Use cooling fan when you laminate continuously without break and document is too hot.

***Laminating Speed at each level (mm(ft)/min) ***

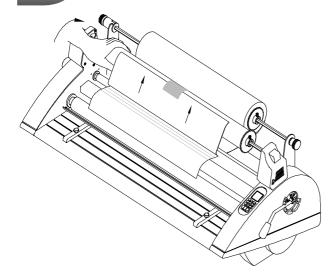
SPEED	RSR-685/1050	RSH-1050/1650
1	800mm(2.6ft)	400mm(1.3ft)
2	1200mm(3.9ft)	600mm(2ft)
3	1600mm(5.2ft)	800mm(2.6ft)
4	2000mm(6.56ft)	1000mm(3.3ft)
5	2400mm(7.9ft)	1200mm(3.9ft)
6	2800mm(9.2ft)	1400mm(4.6ft)
7	3200mm(10.5ft)	1600mm(5.2ft)
8	3600mm(11.8ft)	1800mm(5.9ft)
9	4000mm(13.1ft)	2000mm(6.6ft)

The above laminating speed numbers are at the condition on regular voltage with almost no film tension. There might be the possibility for difference to the above numbers due to the change of voltage or adjustment of tension.

2. COLD LAMINATING

- Put cold roll film on upper bar.(Set the same as methord of HOT film for protect paper of lower part)
- 2. Pull COLD film, and fix it so that backside protecting paper can be wound on take-up mandrel clockwise. (Revolve core to make protectingpaper tight a little bit.)
- 3. Set pressure lever at the proper position following to your lamination condition.

- 4. After pressing the the SPEED and button choose and set proper speed by using button.
- 5. It is **READY** when ready is show on the screen and the buzzer rings three times. sound three times.
- 6. Turn on the take up device and set the proper film tension by pressing the button. Lower tension would make better operation.



- 7. Set document on the table.You should allow at least 5mm(1/4")space on each side for perfect laminations
- 8. Turn the switch "Run" and "take up motor" at the same time. The liner and film will be rolled at the same time.
- 9. When lamination is finished, press the STOP button. For your convenience, it would be better to set table guide in proper position. And if needed, cut documents with cross cutter.
- 10. Set pressure lever at the Hard board/15mm mode.
- 11. Turn off the power switch.

*** Reference ***

- 1. Set up the protection paper. Otherwise, glue form the film will be stuck on the face of roller and it can be seriously damaged.
- 2. Turn the switch "Run" and "Take up motor" at the same time.
- 3. For worm lamination, set temperature from the hot mode.

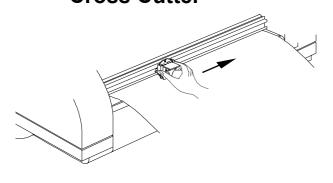
TIPS FOR REMOTE CONTROL AND FOOT SWITCH

- 1. It is convenient to use the remote control in the back of machine while laminating.
- 2. It is also convenient if you use Foot Switch while laminating HARD BOARD.
- 3. "RUN", "STOP", "REV" buttons on Remote Control have same functions with the ones on Control Panel.

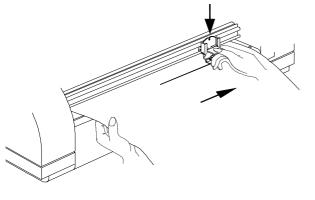
- Press Foot Switch one time for "RUN", press one more time for "STOP".
 (Don't keep pressing)
- 5. After use of Remote Control, attach it to the left side of rear of machine

METHOD FOR USING CUTTER

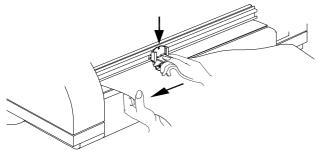
Cross Cutter



- 1. It is on the back side of the machine.
- 2. After lamination, move cutter to a point about 1/3 of the width of lamination



3. Grasp film with one hand and press the cutter cutter downward and slide it to the direction intending to cut with another hand.



4. Press the cutter and slide it the other way.

IMPORTANT SAFETY CONCERNS

- 1.Please be cautious that neck tie, necklace, long hair, clothes are kept well away while operation.
- 2. Prevent children from accessing the machine

Extreme Heat Will Cause Injury

- 3. Place the machines on the plated place so that
- 4. Make certain that the machine is connected to an adequate power souce.
- 5.Do not use any other purposes other than Lamination.

MAINTENANCE

- 1.Do not allow the machine to run with only one roll of film installed. The melted resin will adhere to one roller and ruin future laminations.
- 2. The width of film should be bigger than the material, and Width of upper side and lower side of film should be same in order not to allow melted resin to adhere to the rollers.
- 3.Be sure to adjust the film tension while in operation.

 If the tension is too tight, it could cause the film to stretch.
- 4. After work, you should clean the resin from the rollers before beginning the next operation.
- 5.Please check the lubricant after long operation or you do not use for a long time.
- 6.Check the chain linking each gear is not loosened. The limit tension allowed is 3mm.

It's not out of order

Symptom	Cause	Check point
*Rollers do not operate	Power cord may not be plugged	1. Check the power cord
after press RUN button	in.	2. Check the switch is on
	2. Power switch is at OFF mode.	3. Check the emergency switch
	3. Emergency switch may be at	is off
	ON mode. – 24 –	4. Release STND-BY switch by

	4. It may stay at STAND-BY mode.	press the STND-BY button
*Hot roller is not heater	1. It is set at the cold mode	1. Change the function to hot
up.	2. Memorized temp may be lower	lamination.
	than atmosphere temp.	2. Set proper temperature for the
		work
*Wrinkled lamination	1. Film tension is not proper, too	1. Adjust film tension.
result	tight.	
*Result of lamination is	1. Temperature on the hot roller	1. Increase the temperature on the
not clear	is too low or lamination is too	hot roller or decrease the
	speedy.	speed.

SPARE PARTS

PART NAME	EA	MODEL	PART NAME	EA	MODEL
Core(76mm)			Bolt(M8X65)		
	6			8	
			Washer(Ф8)		
FUSE(50T) (AC250V 6.3A)	1	RSH-1650 RSH-1050	6	8	RSH-1650 RSH-1050
		RSR-1050 RSR-685	Nut(M8)		RSR-1050
FUSE(65TS) (AC250V 20A)				4	RSR-685
	1		L-Wrench	1	

WARRANTY

- 1. For six month from the date of purchase, Royal Sovereign International Corporation or its authorized service center will repair this product free of charge if it is defective in material or workmanship.
- 2. This Limited Warranty does not include cleaning, or damage caused by accident, neglect, misuse or improper installation, operation or external scratch, any damage caused from service, maintenance, modifications or tampering by anyone other than -25

- a Sovereign authorized service representative, or damage caused by a natural calamity such as fire or earthquake and etc...
- 3. Customers will bear the expense of Transportation fee and delivery fee of the damaged machine.

Speed & Temperature Adjustment

NO	Film thickness		Preset		Use	r	Remark
140	I IIII UIICKIIESS	Temp	Speed	Func'No	Temp	Speed	Heiliaik
1	38 micron (1.5 mil)	110	5	1			
	75 micron	_	26 -				

EDNord - Istedgade 37A - 9000 Aalborg - Telefon 9633 3500

2	(3 mil)	115	4	2	
3	80 micron (3.2 mil)	120	5	3	
4	100 micron (4 mil)	120	4	4	
5	125 micron (5 mil)	125	5	5	
6	150 micron (6 mil)	125	3	6	
7	175 micron (7 mil)	130	4	7	
8	200 micron (8 mil)	135	3	8	
9	250 micron (10 mil)	140	3	9	