



***Royal Sovereign* LAMINATORS**

OWNER'S MANUAL

RSS-1200,1050 ,685



PLEASE READ AND SAVE INSTRUCTIONS.

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INTRODUCTION

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 (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 with 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.
3. 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.
10. The socket-outlet shall be installed near the equipment and shall be easily accessible.

CHARACTERISTICS

RS Roll Laminator Line are 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

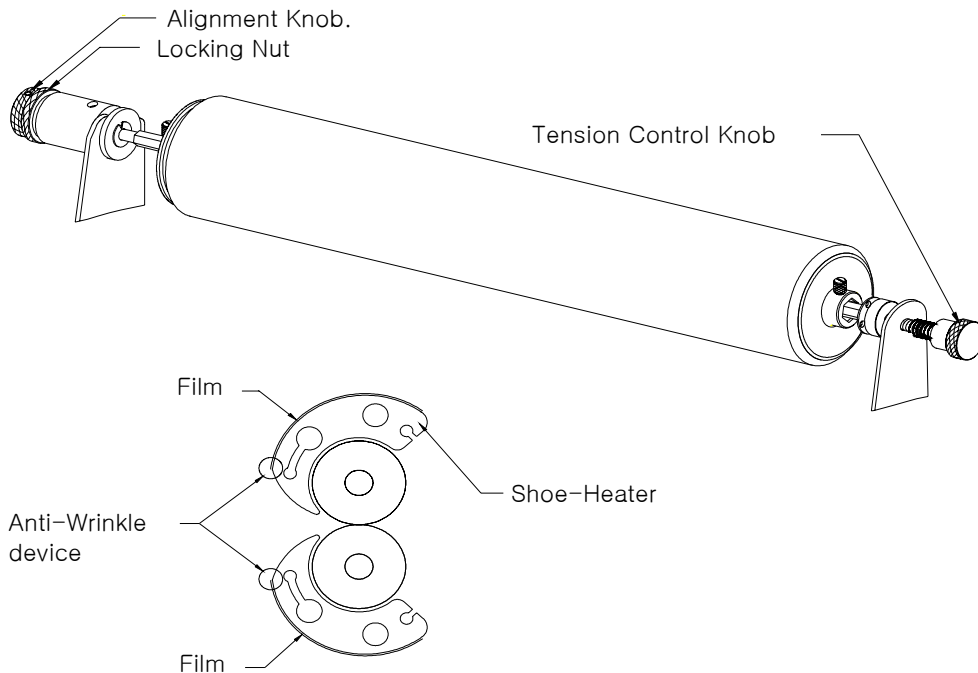
Description	RSS-1200	RSS-1050	RSS-685
Unit Dimensions	1550*650*1210(mm) 61*25.6*47.4(in)	1400*650*1210(mm) 55.1*25.6*47.4(in)	1070*650*1205(mm) 42.1*25.6*47.4(in)
Unit Weight	190(Kg) 418(lbs)	140(Kg) 308(lbs)	100(Kg) 220(lbs)
Voltage/Cycles	AC 100~120/ 200~240V 50~60Hz		
Power Consumption	3000W	3000W	2000W
Max.Laminating Speed	6m/min (19.7ft/min)		
Max.Laminating Width	1200(mm) 47.2(in)	1050(mm) 41.3(in)	685(mm) 27(in)
Max.Laminating Thickness	13mm (0.5in)		
Film Thickness	25~250mic (1 ~ 10mil)		
Cold and Hot Laminating	Yes		
Cooling Blower	2	2	1
Paper Counting	Yes		
Length Measurement	Yes		
Take Up	Yes		
Film Alignment	Yes		
Cutter-Cross	Yes		
Foot-Switch	Yes		

NAMES OF MAJOR PARTS OF MACHINE



- | | |
|----------------------------|--------------------------|
| 1. FILM-UPPER | 8. FOOT SWITCH |
| 2. FILM-LOWER | 9. REMOTE CONTROL SWITCH |
| 3. TAKE-UP (ASS'Y-TAKE-UP) | 10. CONTROL PANEL |
| 4. IDLER BAR (UPPER) | 11. PRESSURE LEVER |
| 5. TABLE-FRONT | 12. TENSION CONTROL KNOB |
| 6. SHOE-HEATER, UPPER | 13. ALIGNMENT KNOB |
| 7. ASS'Y-STAND | 14. TAKE-UP SWITCH |

ADJUSTMENT OF FILM TENSION AND LOCATIONS



1. HOW TO CONTROL TENSION

Tension of film can be controlled depending on the state of lamination, but basically you can adjust it, to some extent, and make wrinkles straighten from Anti-Wrinkle Part of the heat shoe. To increase the tension on the film, turn the knob clockwise.

To lower the tension, turn the handle counter clockwise. If lamination is curved upward, it means that tension of upper film is high. In this case, it can be controlled by raising tension of lower film or lowering tension of upper film. If lamination is curved downward, apply the method in reverse.

2. HOW TO ADJUST ALIGNMENT

Location control device is used when the edges of the lamination are unjustified.

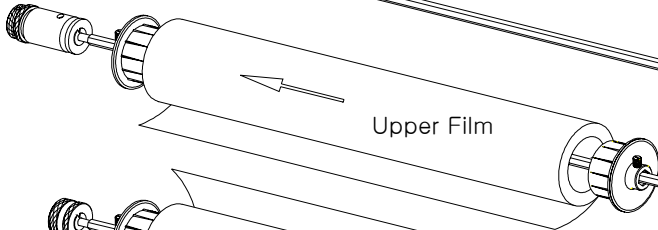
As the drawing shows, when the alignment knob is turned clockwise, the upper film is moved to right. On the contrary, when the handle is turned counter-clockwise, it is moved to left. Once proper alignment is reached, turn the Locking Nut tight against the Alignment knob so the adjustment is set.

SETTING UP FILM

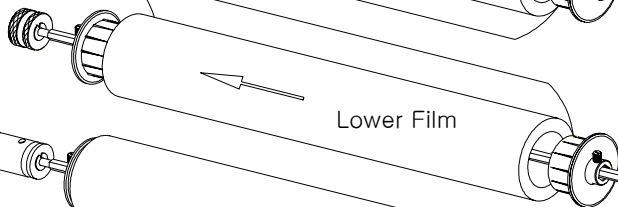
Picture 1



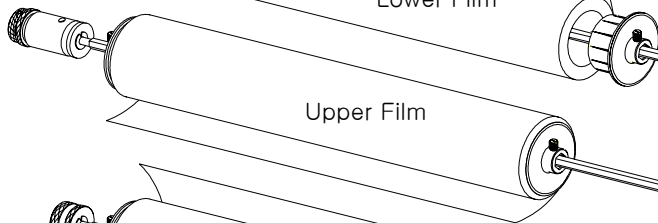
Picture 2



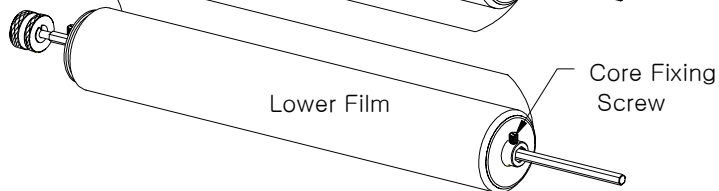
Picture 3



Picture 4



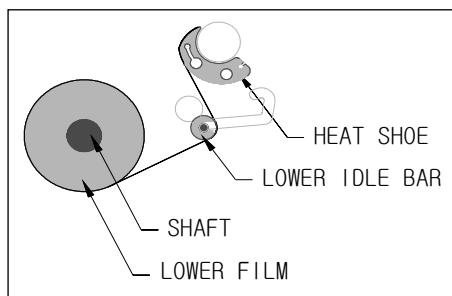
Picture 5



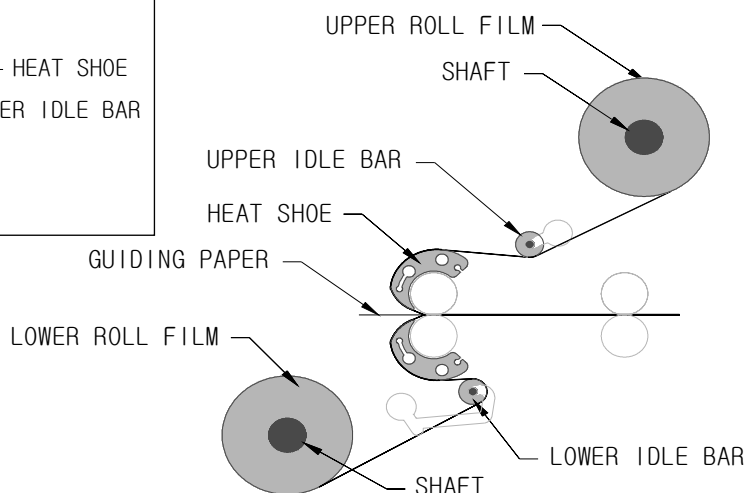
1. Set the glossy side of upper/lower film to face the heat.
(Glossy side is PET film and matte side is thermal polymer laminating film.)
2. Like picture 1, insert core into the left side of upper/lower film shaft.
3. Like picture 2 and 3, insert core into the right side of upper/lower film.
4. Like 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

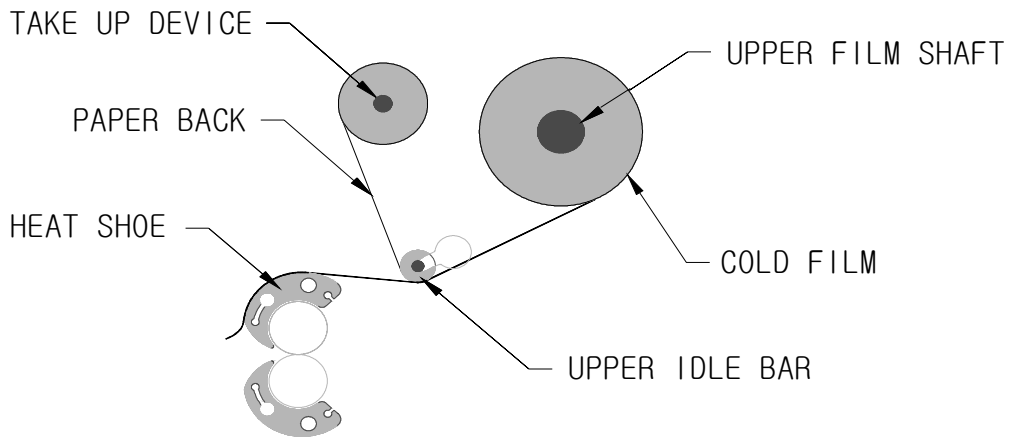


Picture 1



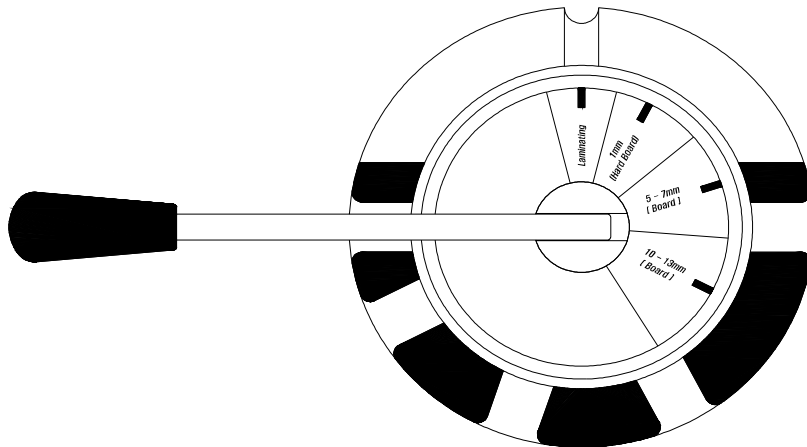
1. Insert the bar into the core of roll film then place the bar on the machine.
2. Place the Pressure Lever to the open mode (10~13mm).
3. Insert a piece of lightweight cardboard (Guiding Paper) between the rollers, through to beyond the second set of rollers.
****IMPORTANT** : It should reach beyond the second set of rollers. It should stick out 5cm (2") in front of front roller.
4. Pull the upper film around the upper idler bar to the anti-wrinkle device and stretch out the film on the upper heat shoe.
5. When the temperature reaches 80°C (176°F), the resin is melting, stick the film on the shoe.
6. Allow some of the film with melted resin to stick to the Guiding Paper.
7. Repeat step 5 with lower roll film then stick it to the Guiding Paper.
8. Unwind 30~40cm(1~1.3ft) of both rolls of film, to loosen the film tension. This should be fed through to the rear roller without tension.
9. Set speed at 1 and press the "RUN" button to feed film into the machine.
10. After checking the status of lamination, Place the pressure lever at the proper lamination mode.

2. COLD FILM



1. Take out the guiding table.
2. Put the shaft of roll film in each hole exactly.
3. Set the pressure lever to the proper lamination mode.(1mm/5mm/10~13mm)
4. Pull the film around the idler bar to the Anti-wrinkle device.
5. Put the paper back of the film to the bobbin at take-up bar to rewind the paper back.
**It is to be stuck on to roll up clock wise.
6. Place the sticky part of film on the upper shoe and get ready to laminate.

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. 10~13mm Board : Mode that you can laminate 10~13mm(1/3" to 1/2")
3. 5mm Board : Mode that you can laminate 5mm(1/4") hard board
4. 1mm hard board : Mode that you can laminate 1mm(40mil) hard board
5. Laminating : Mode that you can do laminate 25mic(1mil) to 250mic(10mil)

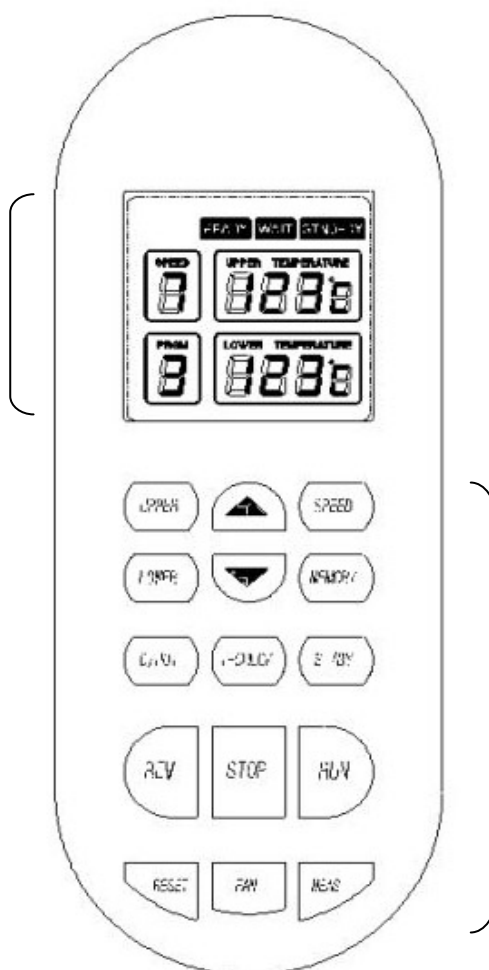
INSTRUCTIONS FOR CONTROL PANEL

You can manipulate speed and temperature with the LCD controller.

We designed the LCD panel for user convenience by adopting memory working condition.

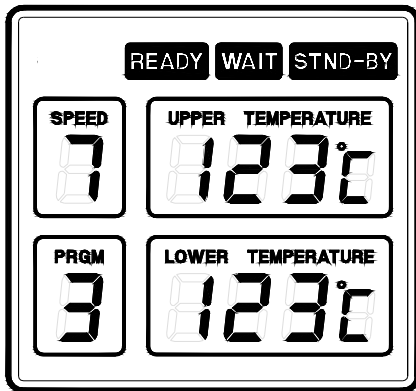
Terms

LCD DISPLAY



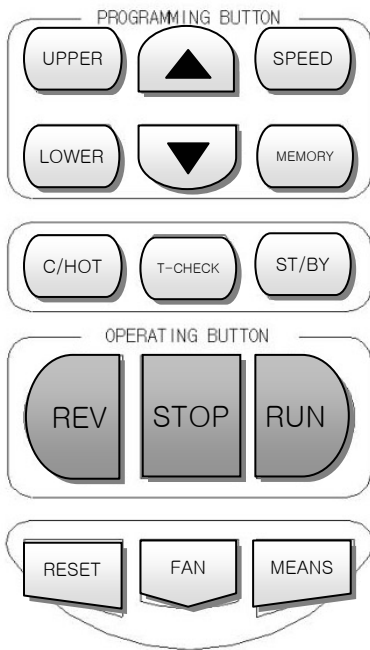
BUTTON

1.LCD WINDOW



1. Initial display status.
It displays the last working condition when the power is turned on.
2. **READY** is displayed when the preset temperature is reached.
3. **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 button.
6. Speed
*9 different speed option.
(SPEED1->1.0m(3.3ft)/min.
SPEED9-> 6.0m(19.7ft)/min.)
7. PRGM
*9 different memory cell (address)
You can memorize 9 different working conditions.

2. FUNCTIONS OF BUTTONS



- : Upper shoe temperature controller
- : Lower shoe temperature controller
- : Speed controller
- : Choose memorized working condition
- : ① Increase temperature
② Increase speed
③ Restore the memorized working setting
- : ① Decrease temperature
② Decrease speed
③ Restore the memorized working setting
- : Cold function
- : Check current temperature
- : Saving electricity while the machine is not being operated.

: Reverse function

: Stop working

: Run the rollers.

: Count & Length values format

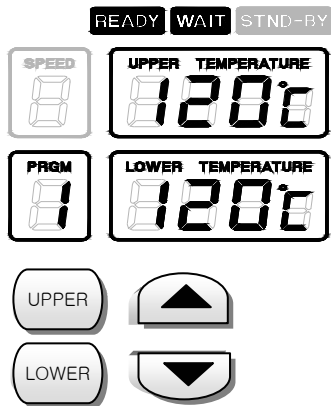
: Run and stop the fan

: Change into Count & Length Mode

3.HOW TO USE BUTTONS

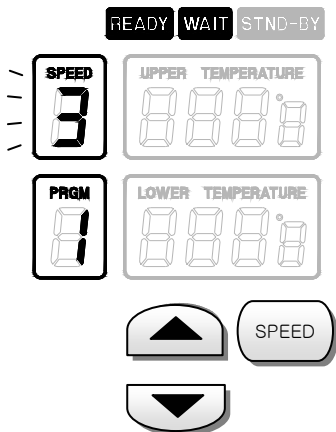
Set the upper/ lower heat shoes

Button & Display



1. Temperature available range from 0°C (32°F) to 160°C (320°F).
2. Set temperature of upper shoe.
Press upper button then you will see the LCD is blinking 6 times. Before blinking is finished, press or to set the temperature.
3. Set temperature of lower shoe.
Press lower button and choose the arrow button the same way to set temperature of upper shoe.
4. Each time you press the button, it will change 1°C (2°F). If you press the button more than 2 seconds, temperature will change automatically until you press the button again.
5. Buzzer is ringing each time you press the button.

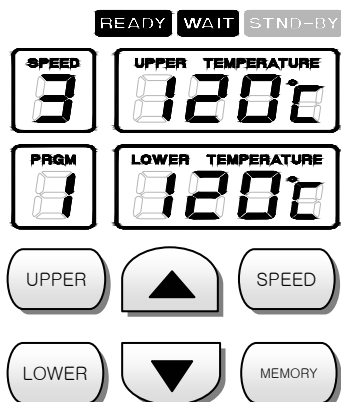
Speed controls



1. The operator can use 9 different lamiantion speeds.
2. Press 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



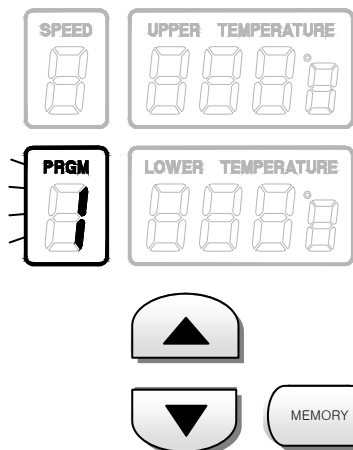
- 1.Operator can memorize 9 working conditions.
- 2.Each time you press the button, buzzer is ringing.
- 3.find the condition number you are willing to memorize working condition by pressing  button.
- 4.When you finish setting upper/lower temperature and speed, you can press the memory button.
This working condition is memorized while buzzer is ringing with blinking.

*If you change the temperature or speed and the display shows blinking at the same time, memory number is blinking together, it means that working condition is not set. When you memorize working condition, you have to press  button.

- 5.When you memorize another working condition, you can do above 3 and 4 operation over.

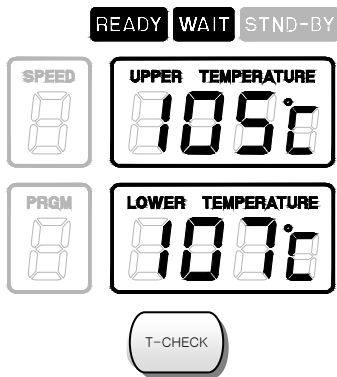
READY WAIT STND-BY

2) Use the memorized working condition.



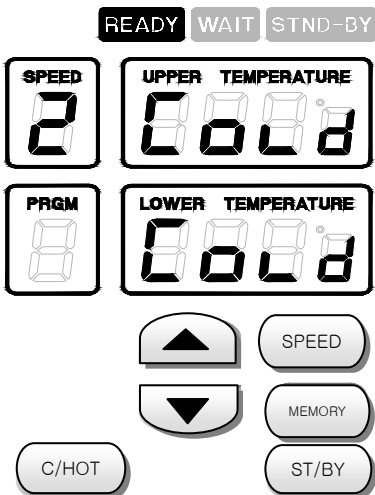
- 1.Operator can choose one of 9 memorized working conditions.
- 2.Press  the  or  to select a working condition. The display will blink.
- 3.After the blinking stops, it is set the working condition you selected and shows the working condition on the display.

Check current temperature on the shoes.



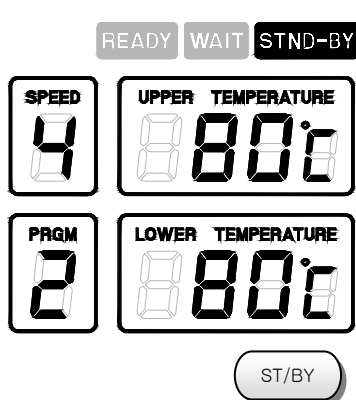
1. This function allows you to check the current temperature on the shoes.
2. Press **T-CHECK** then temperature is shown on the display while display is blinking.
3. It shows current temperature 5 times then returns to temperature which the operator has set.
4. It shows "LO" when the temperature is 40°C (104°F) or below. Only when the current temperature is over 41°C (106°F) will it show the exact temperature on the shoes.

Cold mode



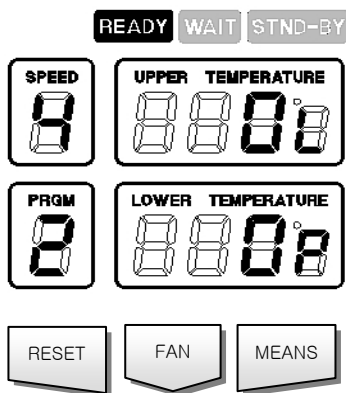
1. You can do cold lamination with this function.
2. Press the **C/HOT** button to show "COLD" on the display.
3. Speed will always show 2 and there is no memory of working condition shown.
4. Speed can be varied 1 or 2 by selecting   button.
5. You release the machine from cold mode by pressing **MEMORY** 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 80°C.
2. When machine is in **STND-BY** mode, machine condition wouldn't work. Press the **ST/BY** button and it will revert to the previous working.
3. When the 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 **MEANS** 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 **MEANS** button again.
3. Also, you can reset measure mode by pressing **RESET** button. (for 2 second)

LAMINATING STEPS

1. HOT LAMINATING

1. Properly plug in the machine.
2. Set up your film.
3. Turn on the power switch on the backside of the product. (Emergency Switch must be turned to the "OFF" position.
4. Set pressure lever to "Laminating" position.
5. Increase temperature of the hot shoe. If the temperature is memorized for the laminator, please push  button, then use   button to choose the correct location.
6. It is ready when the LCD window shows **READY** and the buzzer rings sound three times. (It takes about 10minutes depending on setting temperature.)
7. To set the film tension properly, please use the Tension Adjustment Knob while you are checking laminating condition (The lower film tension would make the better operation.)
8. Set documents on the table. (You should allow at least 5mm(1/4") room on each side for perfect laminations.
9. Push  on the control panel. If the rollers don't run, please check the emergency switch whether it is located at "ON" position or not.
10. Push document into the rollers and start laminating.
11. Push  when the laminating is finished. Cut the document with the cross cutter, if needed.
12. It would be convenient, if the table guide is set at the proper position when the machine is continuously laminating. It is possible to cut unnecessary excess from the left/right side of the object with the Slitters.
13. The document, which has been just laminated, is pretty hot and easily bent. Try not to touch the document until it has cooled down.
14. After finishing your work(laminating), change the position of the Pressure Lever to "Hard Board, 1mm(40mil)".
15. 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 using the **MEMORY** button
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, the button of **REV** 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

SPEED 1	1.0m(3.3ft)
SPEED 2	1.6m(5.2ft)
SPEED 3	2.0m(6.6ft)
SPEED 4	2.2m(7.2ft)
SPEED 5	2.6m(8.5ft)
SPEED 6	3.3m(10.8ft)
SPEED 7	4.3m(14.1ft)
SPEED 8	5.2m(17.1ft)
SPEED 9	6.0m(19.7ft)

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.

Temperature/Speed adjustment guide

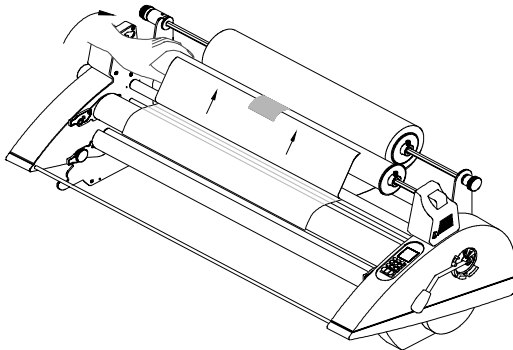
NO	Film Thickness	Paper Thickness	Preset			User's Guidance		Remarks
			Temp	Speed	Storage	Temp	Speed	
1	38 micron (1.5 mil)	100g/m²	130	9				
		150g/m²	130	7	1			
		300g/m²	130	5				
2	80 micron (3 mil)	100g/m²	110	3				
		150g/m²	110	3	2			
		300g/m²	110	2				
3	100micron (4 mil)	100g/m²	110	2				
		150g/m²	110	2	3			
		300g/m²	110	2				
4	125micron (5 mil)	100g/m²	115	3				
		150g/m²	115	3	4			
		300g/m²	115	2				
5	150micron (6 mil)	100g/m²	120	3				
		150g/m²	120	3	5			
		300g/m²	120	3				
6	175micron (7 mil)	100g/m²	120	3				
		150g/m²	120	2	6			
		300g/m²	120	1				
7	200micron (8 mil)	100g/m²	130	1				
		150g/m²	130	1	7			
		300g/m²	130	1				
8	250micron (10 mil)	100g/m²	130	1				
		150g/m²	130	1	8			
		300g/m²	130	1				

*NOTE

IF the surrounding conditions are different, the adjustment is necessary to be controlled a little.

2. COLD LAMINATING

1. Put cold roll film on upper bar.
(Set the same as method 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 the take-up mandrel clockwise. (Revolve core to make protecting paper tight a little bit.)
3. Set pressure lever at the proper position following to your lamination condition.
4. After pressing the **C/HOT** button choose and set proper speed by using the **SPEED** button and   button.
5. It is **READY** when ready is show on the screen and the buzzer rings three times.
6. Turn on the take up device and set the proper film tension by pressing the **RUN** 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 the 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/1mm(40mil) mode.
11. Turn off the power switch.

*** Reference ***

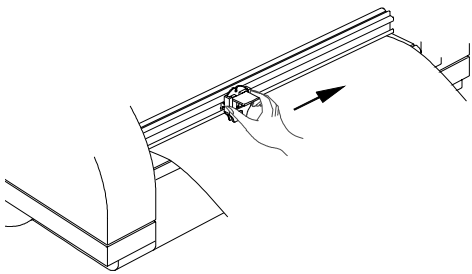
1. Set up the protection paper. Otherwise, glue from the film will be stuck on the face of the document and it can be seriously damaged.
2. Turn the switch "Run" and "Take up motor" at the same time.
3. For warm lamination, set temperature from the hot mode.

TIPS FOR REMOTE CONTROL AND FOOT SWITCH

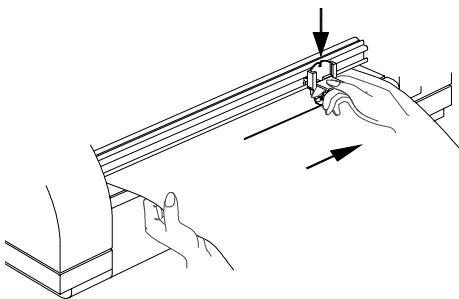
1. It is convenient to use the remote control in the back of machine while laminating.
2. It is also convenient if you use Foot Switch while laminating HARD BOARD.
3. "RUN", "STOP", "REV" buttons on Remote Control have same functions with the ones on Control Panel.
4. Press Foot Switch one time for "RUN",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

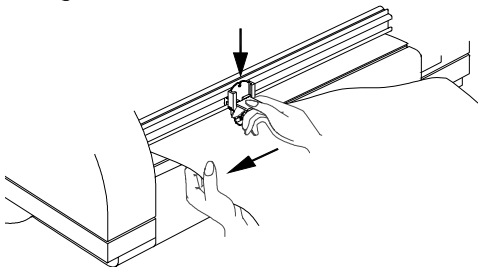
1. Cross Cutter



1. It is on the back side of the machine.



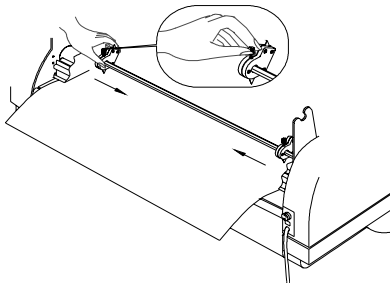
2. After lamination, move cutter to a point about $\frac{1}{3}$ of the width of lamination.



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

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

2. Slitters



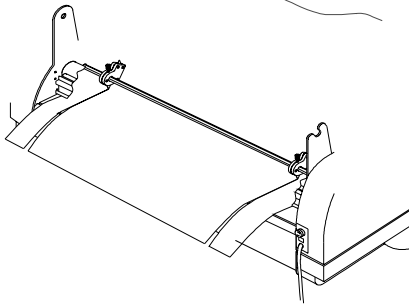
1. This machine has two vertical cutters (slitters)
2. For successive lamination, it is easy to cut vertically.

3. Fix the cutter at the point to be cut, on the left and right.

(Turn the screw counter clock wise to loosen the slitter, and slide it to the point to be cut. Once the point is set, turn clock wise to fix it.)



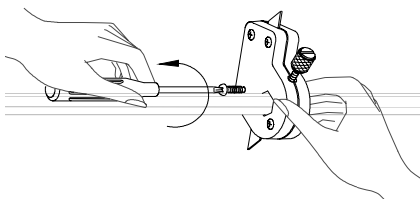
4. Turn the cutter knob to "ON".



5. Once you start lamination, it is automatically slit.



6. Dial Cutter knob at "OFF" mode after lamination.



7. When the knife is dull, unscrew the cutter screw to counter clockwise to take the knife out. Break the edge of knife and tighten the screw.

****CAUTION.****

*When you do not use vertical cutter, please set the both cutter at the bottom of each side. It could cause you to cut your hands while installing roll film.

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 in order to prevent the machine from damage.
4. Make certain that the machine is connected to an adequate power source.
5. Do not use any other purposes other than the lamination.

MAINTENANCE

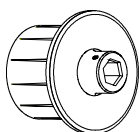
1. Do NOT Allow the machine to run with only one roll of film installed.
The melted resin will adhere to one roller and ruin future laminations.
2. The width of film should be bigger than the material, and width of upper side, and lower side of film should be same in order not to allow melted resin to 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

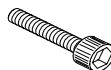
Symptom	Cause	Check point
Rollers do not operate after press RUN button.	1. Power cord may not be plugged in. 2. Power switch is at OFF mode. 3. Emergency switch may be at ON mode. 4. It may stay at STAND-BY mode.	1. Check the power cord 2. Check the switch is on 3. Check the emergency switch is off 4. Release STND-BY switch by press the STND-BY button
Heat shoe is not heater up.	1. It is set at the cold mode 2. Memorized temp may be lower than atmosphere temp.	1. Change the function to hot lamination. 2. Set proper temperature for the work
*Noise from friction between the shoe and film is loud, while machine's operating at a slow speed.	1. Film tension is too tight. 2. Temperature of heat shoe is too high	1. Adjust the film tension. 2. Reduce the friction noise by adjusting temperature on the heat shoes.
*Wrinkled lamination result	1. Film tension is not proper, too tight. 2. Idle Bar in line with lower roller is not in proper position.	1. Adjust film tension. 2. Put the Idle Bar at right position.
*Result of lamination is not clear	1. Temperature on the heat shoe is too low or lamination is too speedy.	1. Increase the temperature on the heat shoe or decrease the speed.

SPARE PARTS

1. Core(76mm) :6EA



4. Bolt(M8X12) : 6EA



2. Fuse(50T) : 1EA



(AC 250V 6.3A)

5. Washer-spring(Φ8) : 6EA

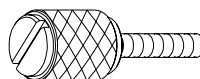


3. Fuse(65TS) : 1EA



(AC250V 15A)

6. Bolt-core : 2EA



LIMITED WARRANTY

1. DURATION OF LIMITED WARRANTY

One (1) year from the date of "Buyer's" receipt of delivery.

2. INSPECTION and CLAIMS

It is the "Buyers" responsibility to inspect all merchandise immediately upon receipt. Any claims must be submitted to the "Seller" in writing, along with adequate examples (samples, photos, etc.) clearly showing the reason for the claim. All claims must be filed within fifteen (15) days of actual receipt of the shipment by the "Buyer", or they shall be waived.

3. DEFECTIVE RATE OF 2% OR LESS

Repairs to defective merchandise valued at 2% or less of annual purchases of that item by a "Buyer", is the responsibility of the "Buyer". The "Seller" agrees to promptly provide any spare parts needed for such repairs, free-of-charge, on a "freight collect" basis, to be shipped via the "Buyer's" specified carrier.

4. DEFECTIVE RATE IN EXCESS OF 2%

In the event that the defective rate exceeds 2% of the "Buyer's" annual purchases of that item, the "Buyer" must notify the "Seller" of the specific defect(s). The "Seller", upon inspection of the defective goods, will either repair or provide replacement (at the "Seller's" sole discretion) for said goods. Any shipment of replacement merchandise will be at 50% freight allowed.

MEMO

