

AL-MEISTER PLS3311 PLUSTER

INSTRUCTION MANUAL

For safe and correct use of this machine, please read through this manual before operation.
Please keep this manual and refer to it whenever necessary.

FUJIPLA

Rev 9/22/11 bj
Rev 4/26/13 bj
Rev 2/20/14 bj

Thank you for purchasing the PLS3311!
For safe and correct use of this machine, please read through this manual before operation.
Please keep this manual and refer to it whenever necessary.

MAIN FEATURES

PLS3311 PLUSTER is a fully automatic single sided hot laminator. Once setup for the type of work to be done, it's as easy as setting the printed paper on the Feeder Tray and pressing the [START] key.

1. Laminating size/Laminating film

The paper size for the PLS3311 is A3 wide.
The film is specially produced for the PLUSTER line of laminators.
There are two types of film: glossy and matt with film thickness of 30mic.

2. Separator

Laminated papers are separated and stacked automatically.

3. Feeding capacity: 300 sheets

The automatic feeder enables continuous lamination. The total capacity of the feeder tray is 300 sheets of 0.032lbs/ft^2 paper.

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4. Processing speed

Finishes 100 sheets of A3 wide single sided lamination in 15min. Feeding, laminating, decurling, and separating are done automatically.

5. Energy saving

When the machine is idle for 15 minutes it enters Eco Mode which saves energy.

IMPORTANT

The following safety precautions must be observed for your safety during the operation of this product. Please read the cautions and warnings carefully. Please keep this manual and refer to it whenever necessary.

**General Caution**

**Electric Shock** Indicates possible electric shocks under the specified conditions.

**Tangle Warning** Indicates possible injuries caused by tangling in a rotating machine part.

**Amputation Warning** Indicates possible serious injuries such as finger amputation.

**Heat Warning** Indicates possible injuries caused by extreme heat.

**Don't do** Indicates unspecified acts that are forbidden.

**Unplug immediately** Indicates there may be a dangerous situation that requires you to unplug the machine immediately.

WARNING AND CAUTION FOR SAFETY

These two different words are used on warning stickers placed on the machine according to the level of danger.

**WARNING** ・・・To indicate that incorrect use can cause serious injury.

**CAUTION** ・・・To indicate that incorrect use can cause serious injury to the operator or damage to equipment. There can also be a machine malfunction.

STORAGE/INSTALLATION

To avoid fire, electric shock, or any danger, do not store or install the machine:

- In direct sunshine.
- In/near a heating appliance, near an air conditioner or an extremely hot area.
- In an extremely cold area.
- On a weak or shaky floor or platform.
- In an extremely humid/dry area.
- In a dusty area.

WARNING: POWER CONSUMPTION:

1. Use appropriate power outlet for 3-pin plugs. Always connect to AC120V. Unstable voltage may cause electric shock, fire, or damage to the machine. Always avoid using multiple outlet connections. Do not use an extension cord.

2. Pay attention to the amperage on the "house" circuit. If the amperage of the circuit is not high enough, or if other equipment on the circuit creates an overloaded condition there is chance of a fire or malfunction. Do not share the electrical outlet with other devices.

3. Ensure a ground connection is correctly made to avoid any danger or electrical problems.

4. Handle power cord with care. Do not set the machine on the power cord. Do not pull the power cord forcibly. Do not alter the power cord. Damage to the power cord many cause fire, electric shock and/or damage to the machine.



GENERAL CAUTIONS

Always follow these instructions for safe operation.

1) What to wear

In order to avoid any possible danger,

- do not wear neck-ties or necklaces that may get caught in the machine.
- do not wear loose clothes. Be careful that your hair does not get caught in the machine.
- if entangled, turn off the power or unplug immediately.

2) Operation

- always close covers.
- always use in a well ventilated room.
- do not spill liquids on the machine or handle it with wet hands.
- it is recommended to check a large operation from time to time.
- both the Feeder and Rear Exit Trays are detachable. Be sure not to drop them on your foot during the installation.

3) In an emergency

- if a malfunction occurs, switch off and unplug immediately.
- contact your dealer or Dry Lam's service department.
- do not attempt to disassemble/repair/alter the machine yourself.
- contact your administrator or Dry Lam for maintenance and service issues.

4) Others

Always follow these instructions in order to avoid serious injury/electric shock/fire/damage of the machine.

- do not use the machine for any other purposes.
- do not put heavy stuff on the machine. Avoid heavy impacts.
- always unplug the machine before moving it.
- remember that laminated objects can be very hot.
- machine may smoke when incorrectly threaded and operated.
- do not leave metals such as paper clips or staples inside the machine.
- do not remove the covers or other parts from the machine.
- never attempt to modify the machine.
- do not remove caution labels from the machine.
- always use Fujipla's exclusive PLUSTER FILM.

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REQUIREMENTS OF PAPER TO BE LAMINATED

Do not laminate:

- Paper money or valuable securities
- Paper with staples
- Material that is affected by heat such as vinyl chloride or polyethylene
- Very precious articles that are unique and irreplaceable
- Paper thicker than 0.02” (including film thickness)
- Paper that discolors and changes with heat such as thermal papers and crayoned pictures
- Paper that contains a lot of moisture
- Things other than paper



CLEANING

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Be sure that the machine is unplugged. Before cleaning the machine, turn off the power and let the machine cool down. Wipe off stains with a soft cloth. When stains are persistent, use a firmly squeezed soft cloth soaked in a small quantity of water and detergent. Wipe off the residue of detergent with a cloth soaked in water.



USEFUL INFORMATION – FILM END

Fujipla’s exclusive PLUSTER FILM has a special feature that allows the machine to detect the end of the film. Because the last 20” of the film is black a lamination, or ‘film end’ error will be displayed and operation will stop immediately. Always prepare more prints than are necessary for the run to avoid the black section from appearing on the last document. Regularly check the remaining amount of film on the display (see section 5-4).

	CONTENTS	PAGE
1.	**COMPONENTS**	
2.	**NAMES AND FUNCTIONS**	
2-1.	OVERVIEW	8
2-2.	INTERIOR	9
2-3.	OPERATION PANEL	10
2-4.	LCD DISPLAY	11
2-5.	OTHER SWITCHES AND KEYS	12
3.	**INSTALLATION**	
3-1.	INSTALLING THE PLS3311	13
3-2.	SET FEEDER TRAY	13
3-3.	SET REAR EXIT TRAY	14
3-4.	ATTACH POWER CORD	15
4.	**OPERATION**	
4-1.	WARM UP	16
4-2.	SET PAPER	17
4-3.	SETTING FILM	18
4-4.	ADJUST REAR EXIT TRAY	23
4-5.	START LAMINATION	24
4-6.	STOP LAMINATION	25
4-7.	FINISH OPERATION	26
5.	**CHANGE SETTINGS**	
5-1.	SET TEMPERATURE	27
5-2.	SET SPEED	28
5-3.	ADJUST PAPER OVERLAP (during operation)	29
5-4.	CHECK FILM INFO	30
5-5.	CHECK FILM LOT NUMBER	31
5-6.	SET CUT TIMING	32
5-7.	ADJUST PAPER OVERLAP (while not running)	33
5-8.	SET COUNTER	35
5-9.	TOTAL COUNTER	37
5-10.	ADJUST BLADE READY POSITION	38
5-11.	SET CUT MODE	40
5-12.	DECURLING	42
5-13.	ADJUST FEEDING PRESSURE	43
5-14.	ADJUST PAPER POSITIONING	43
5-15.	ADJUST FILM TENSION	44
6.	**CLEANING**	
6-1.	CLEANING OF FEEDER SECTION	48

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6-2.	CLEANING OF LAMINATION SECTION	48
6-2.	CLEANING OF EXIT SECTION	49
7.	**TROUBLE SHOOTING**	50
8.	**SPECIFICATIONS**	56

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1. COMPONENTS

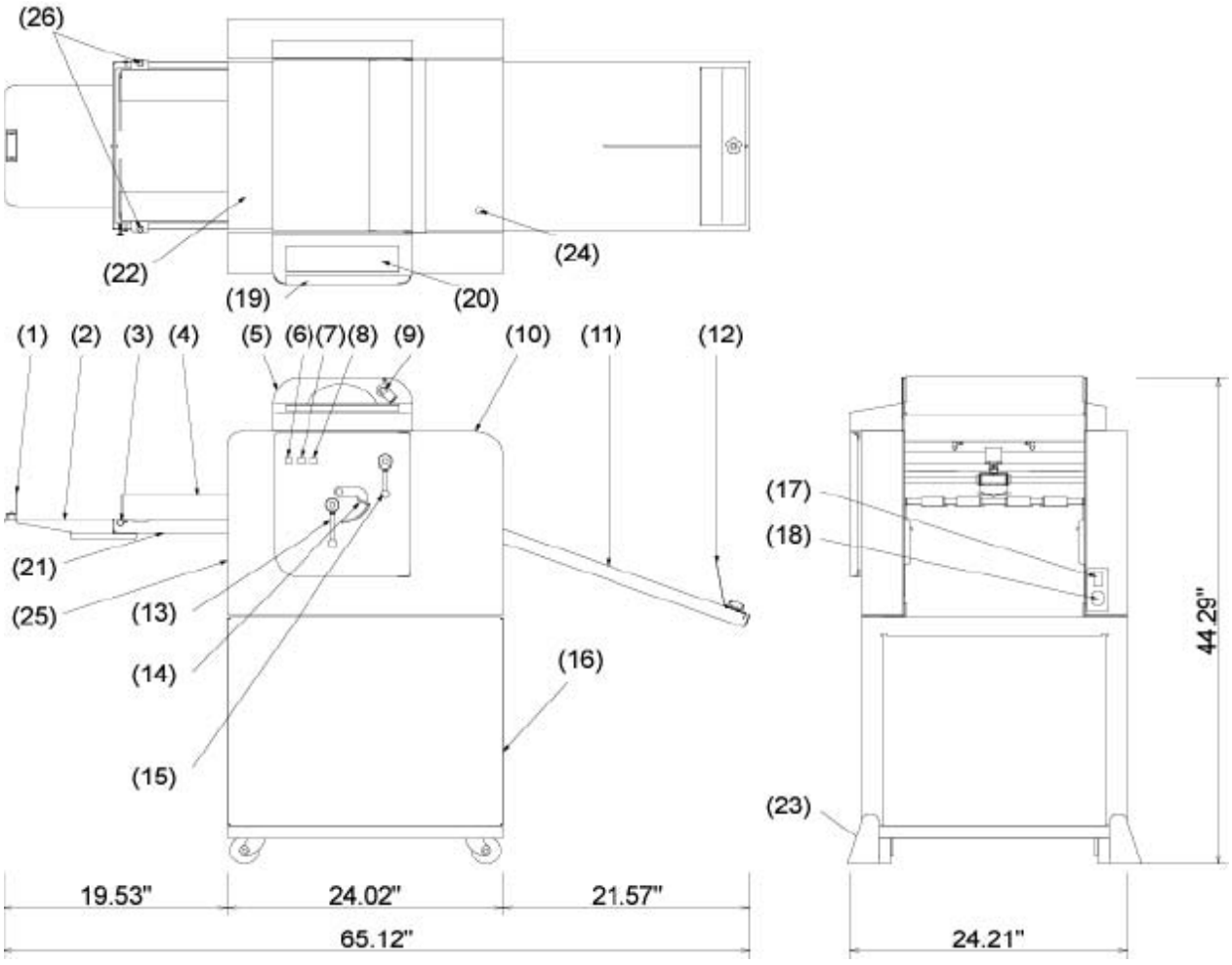
Please check all these components are included with the laminator.

- PLS3311
- Feeder Tray
- Extension Tray
- Feeder guard
- Rear Exit Tray
- Stacker Paper Guard
- Power Cord
- Instruction Manual
- Film Spacer
- Stand
- Stand Assembly Instruction

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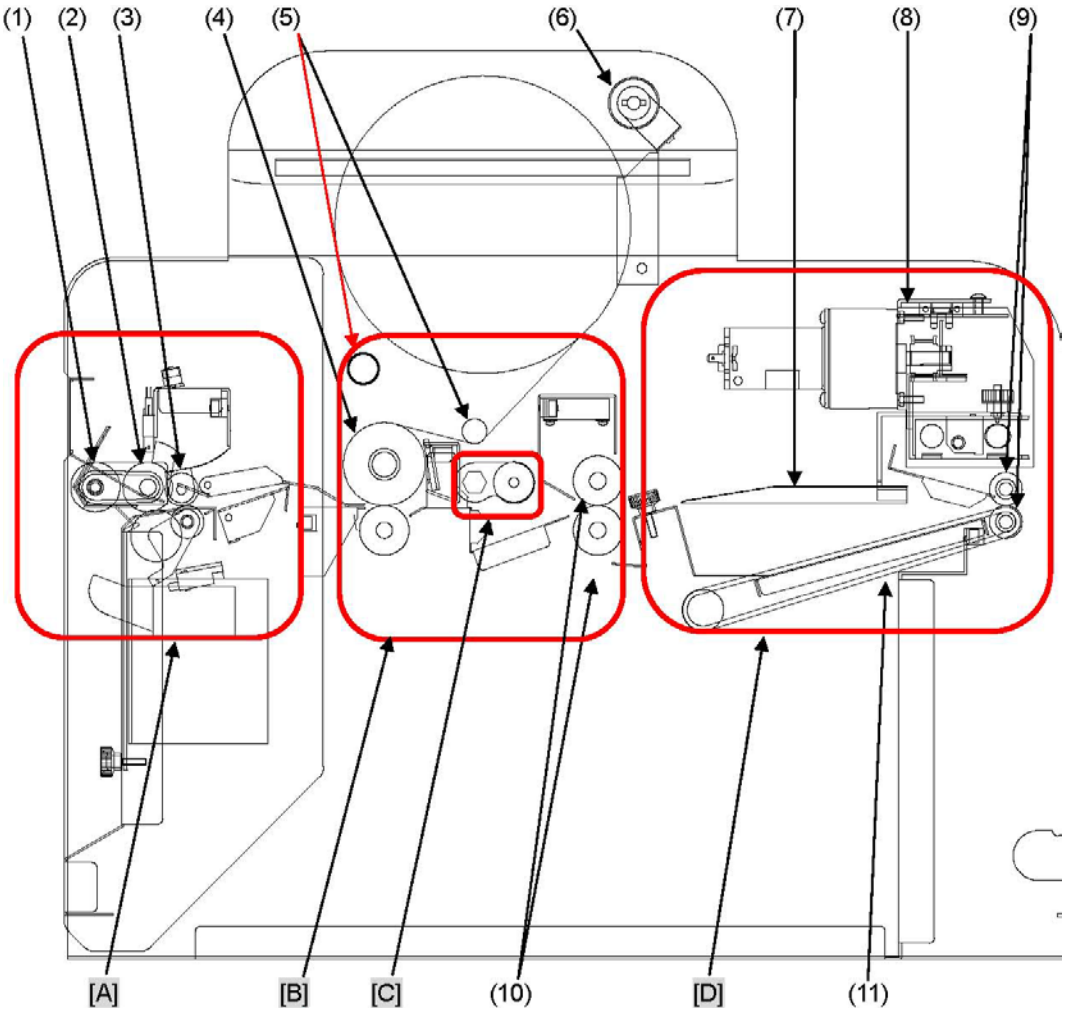
2. NAMES AND FUNCTIONS

2-1. OVERVIEW



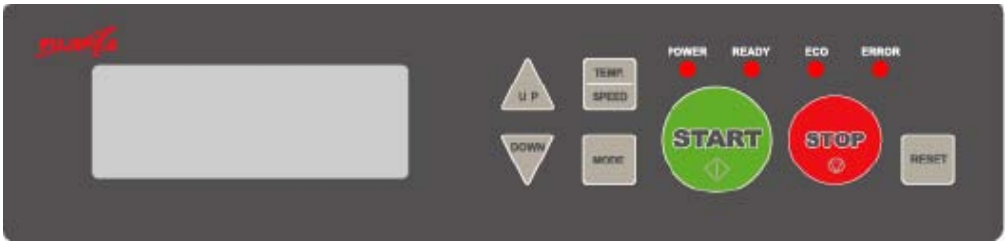
(1)	Feeder Guard	(14)	Decurling Lever
(2)	Extension Tray	(15)	Pull Roller Lever
(3)	Feeder Adjustment Knob	(16)	Stand
(4)	Feeder Paper Guide	(17)	Power Switch
(5)	Film Cover	(18)	Power Socket
(6)	Feeder Elevation Switch	(19)	Front Cover
(7)	Manual Feed Switch	(20)	Operation Panel
(8)	Film Setting Switch	(21)	Feeder Tray
(9)	Film Tension Knob	(22)	Feeder Cover
(10)	Cutter Cover	(23)	Metal Foot
(11)	Rear Exit Tray	(24)	Blade Position Adjustment Knob
(12)	Stacker Guard	(25)	Pressure Knob
(13)	Heating Roller Lever	(26)	Paper Guide Adjustment Knob

2-2. INTERIOR



(1)	(Upper) Feeding Roller 1	Picks up papers
(2)	(Upper) Feeding Roller 2	In conjunction with the resistance roller below it only one paper enters at a time.
(3)	Transport Roller	Transports paper to the machine
(4)	Heating Roller	Laminates film and paper with heat
(5)	Film Guide Bar	Position can be adjustable
(6)	Film Tension Roller	Controls film tension
(7)	Blade	Cuts film and separates papers
(8)	Blade Unit	Drives the separator blade
(9)	Discharge Rollers	Discharges the laminated papers
(10)	Pull Rollers	Transports laminated papers to the separator blade
(11)	Transport Belt	Transports laminated paper to the discharge roller
[A]	Feeder Section	Picks up one sheet and transports it to the lamination section
[B]	Lamination Section	Laminates the paper
[C]	De-Curling Section	De-curls the laminated paper
[D]	Separation Section	Separates sheets at the overlap and discharges

2-3. OPERATION PANEL





START key. Press to start operation



STOP key. Press to stop operation.



RESET key. Press to return to the operation mode and to reset the counter.



SCROLL key (UP). Press to raise set value.



SCROLL key (DOWN). Press to reduce set value.



MODE key. Press to select MODE setting.



TEMP/SPEED key. Press to select temperature or speed setting. Hold continuously to see the current temperature.



POWER LAMP. Indicates the power is on.



READY LAMP. Indicates that the set temperature has been achieved.



ECO LAMP. Lights during the power saving mode.



ERROR LAMP. Lights when an operation error occurs. To aid in servicing note the error message that is generated on the LCD display.

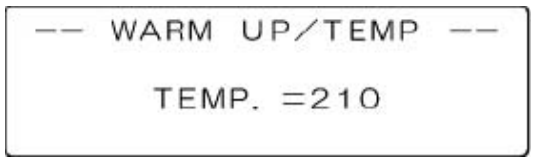


LCD DISPLAY. Shows the status of the settings. See Chapter 2-4. LCD DISPLAY.

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2-4. LCD DISPLAY

WARM UP



Indicates the set temperature.

Indicates the machine is being heated up. Operation is not possible during this display.

DEFAULT DISPLAY



When the machine is heated up, buzzer beeps three times.

[TEMP] Indicates the set temperature of the heating roller.

[SPEED] Indicates the set speed. *Example* SPEED: 60 *means 60" per minute*

[SET] Indicates the set count. *Example* FREE: laminates all the papers in the feeder tray. EXAMPLE: 12/100: 12 sheets of 100 have been laminated with 88 remaining.

[COUNT] Indicates the total number of lamination during the operation. When 99999 is reached the counter returns to 0 (zero).

[CUT] Indicates the cutting mode.
1 --- Two way cut (cut alternate from each side)
2 --- One way cut (always starts cut from the operator side)

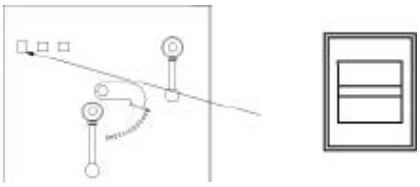
NOTE

・Refer to SET CUT MODE in section 5-11 for more details.

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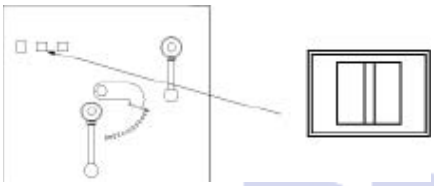
2-5. OTHER SWITCHES AND KEYS

FEEDER ELEVATION SWITCH



Raises or lowers the position of Feeder Tray for paper setting.
UP: the position of the Feeder Tray is raised.
DOWN: the position of the Feeder Tray is lowered.

MANUAL FEED SWITCH



Use to set film or to solve paper jam problems.
To feed backward, turn the switch to the left.
To feed forward, turn the switch to the right.

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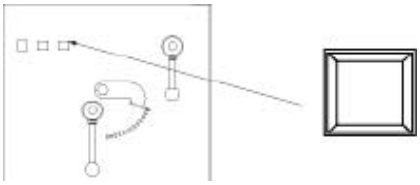
NOTE

- When the Feeder Cover, Film Cover, or Separator Cover are open, motors cease to function for safety reasons. The machine will continue to heat, however.

- Use Manual Feed Switch only when you need to remove jammed paper, or when you need to feed paper in the event of "Paper Jam" error.

FILM SETTING SWITCH

Use to set film. This should be done in the event of a “Control Film/Paper” error.



3. INSTALLATION

CAUTION

・Read the safety instructions carefully regarding installation and about proper grounding on page 3.

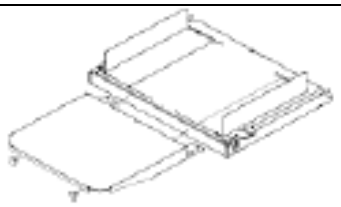
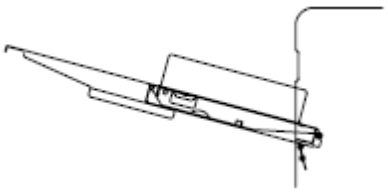
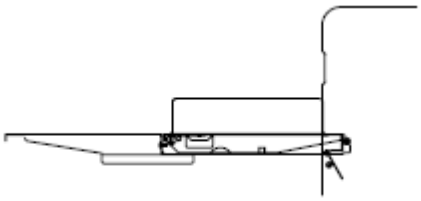
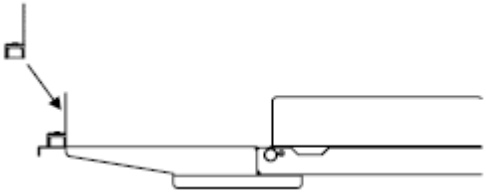
・When you install the Feeder Tray and Rear Exit Tray, avoid dropping them on your foot during the installation.

・Should there be any problem during the installation, please contact your administrator, dealer or Dry Lam's Tech-Line.

3-1. INSTALLING THE PLS3311

Allow a space of about 60 cm around the machine for flawless operation. Always make sure that the four level stoppers are securely set.

3-2. SET FEEDER TRAY

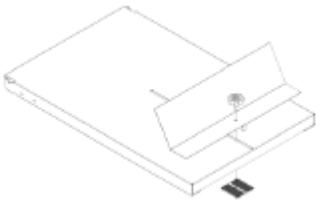
Attach the Extension Tray to the Feeder Tray as shown. 	
1	Attach the feeder tray assembly using both your hands. Insert it on an angle shown in the illustration: 
2	Fit the protruded parts of the machine into   the holes of the tray.
3	Attach the feeder guard according to the paper  length.

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3-3. SET REAR EXIT TRAY

Remove the knob screw from the rear exit tray.

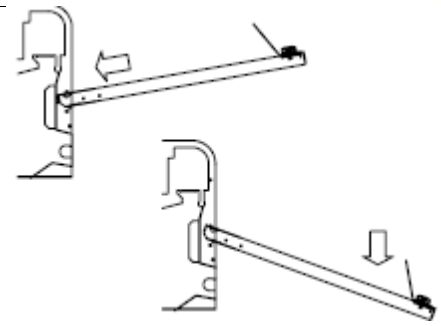
Apply Exit Tray Guard and fasten the knob



The picture shows the rear exit tray installed in its correct position.

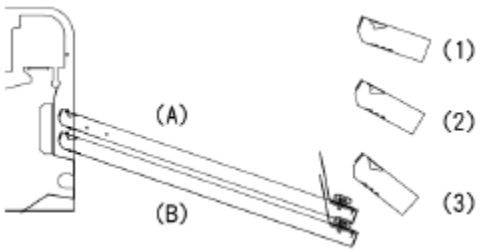


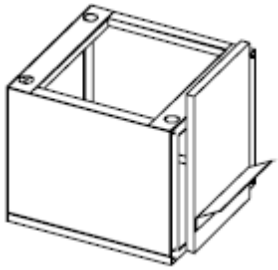
1 Hold the rear exit tray with both your hands.
Fit it as shown in the illustration. Make sure that the Exit Tray is securely



attached.

2 The Rear Exit Tray can be adjusted in two positions (high/low) with three different angles each. Select the appropriate position for the paper used. (A) and (3) for thin paper (B) and (1) for thick paper.



3	Rear Exit Tray can be stored in a vertical position. 

3-4. ATTACH POWER CORD

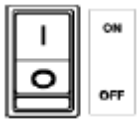
	Put the power cord firmly into the socket on the machine.

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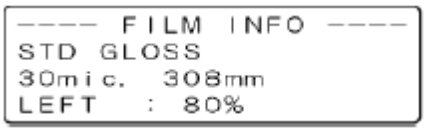
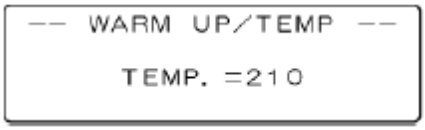
4. OPERATION

4-1. WARM UP

CAUTION: The PLS3311 will not heat up or operate without PLUSTER FILM.

1	Set PLUSTER FILM in the socket. The end of the film will come off the BOTTOM of the roll when properly set. 
2	Plug in. 
3	Switch ON.   Buzzer beeps. This display appears for 3 seconds.

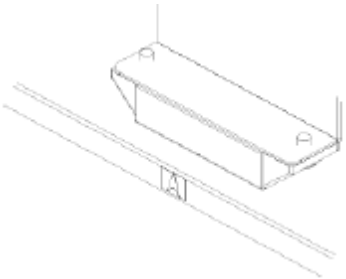
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	Information about the installed film appears for 5 seconds.  "WARM UP" display appears. POWER lamp lights. **NOTE** ・These displays will only appear when the PLUSTER FILM is correctly set. 

4. OPERATION

4-2. SETTING PAPER

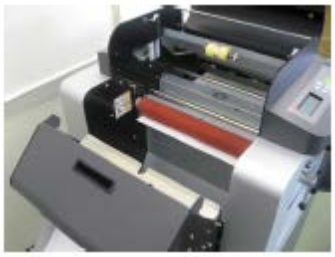
1	Turn the feeder guard to outer side. **NOTE** ・Lower the feeder tray by using Feeder Elevation Switch. 
2	Widen the paper guide at both sides by loosening the knob. Hold both ends (marked with a circle) and move the paper guides. 

3	Place a few sheets of paper in the Feeder Tray so that the position is flush at the center of the paper and the center mark of the feeder Tray. Fix both paper guides. Make sure that the paper is touching the entrance.  Put Feeder Guard up against the  paper. **NOTE** ・It is recommended to set paper that is the same type and the same size as the actual material you wish to laminate and to do test laminations first. **CAUTION** ・Before opening the feeder cover, remove any papers from the feeder tray first.

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4-3. SETTING FILM

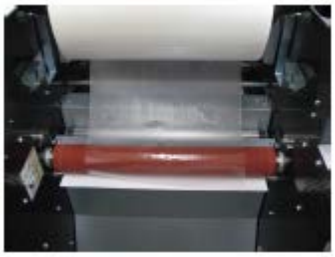
1	Even when the machine is warmed up, the display “NOT READY” will appear. The film can be set at this point. 

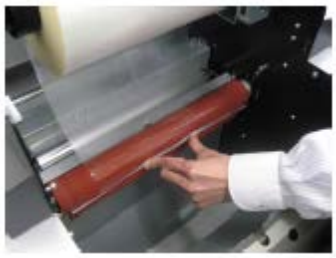
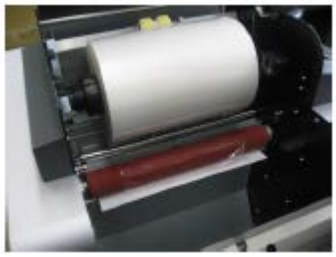
2	Make sure that: A) Place the heating roller lever and the pull roller lever are in the down position. B) Set the de-curling lever in the position marked **FREE** at the right end of the scale. C) Press FILM SETTING switch. **NOTE** ・The first paper is picked up and fed. 
3	When the first paper comes to a stop remove any remaining paper from the Feeder Tray (you may leave the tray on the machine, if you wish) and open both the Film and Feeder Covers. 
4	Hold the film roll and place both film ends on the upper film rack (above the socket where the film sits in normal operation). This places it out of the way which aids in threading the machine. **NOTE** ・The display shows FILM ERROR when you remove the film roll. This is normal. It will go back to its original display when the film roll is set in its proper operating position. 

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5	Remove Film Guide Bar. To remove the guide bar, push the bar to one side to depress the spring. The other side of the guide bar should now be free, and allow the bar to be lifted out of the machine.  **CAUTION** ・Heating rollers and guide bar may be HOT! .

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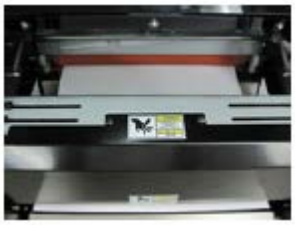
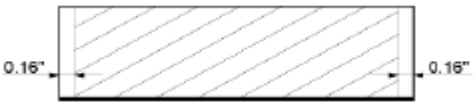
6	Pull out about 20” of film. **NOTE** ・PLUSTER FILM must be set in the right direction (feeding off the bottom of the roll), otherwise adhesive will get on the rollers. 
7	Stick the film end to the paper as shown in the picture. The film adhesive is melted and easily

	 sticks to the paper. **CAUTION** ・The heating roller gets very hot.
8	Reinstall the film guide bar end into the left hand side first, depress spring by pushing to the left and re-locate the right hand end of the bar. **NOTE** ・You can move the position of the film guide bar. The positions are shown in the chart 2-2 INTERIOR, P.9. 
9	 Put the film roll back in its correct position in the lower sockets.

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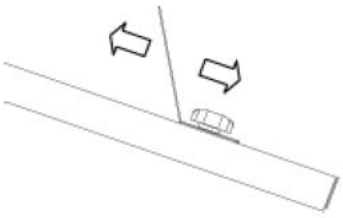
10	Close the feeder cover while holding the paper end as shown in the picture. NOTE: Make sure that the paper stays flat, or underneath the lip of the feeder. 

11	Turn Pull Roller lever to UP position Move De-curling lever to center “0” position. Then, turn Pull Roller Lever to DOWN position again.  NOTE: • While the Pull Roller Lever is in the UP position pull and move the de-curling Lever to the position you want. By releasing the lever it will be locked into place. • For paper thicker than 0.043lbs/ft2 it is recommended to keep de-curling Lever at FREE position for test lamination. • Make sure the Pull Roller Lever is in the UP position when you move the de-curling Lever.
12	Close the film cover. Load some paper on the Feeder Tray Press the FILM SETTING switch.

	The paper will be laminated and exit. A new sheet will be drawn in and set.
13	Open the Cutter Cover. Look at the new sheet that was set.  Check that the film position is correct of the paper margins. If not correct, adjust the paper position in the procedure 5-14. ADJUST PAPER POSITIONING. Close the Cutter Cover. Press [START] key and do the lamination until creases/curling are gone.  CAUTION: In order to avoid cutting errors, film must be 0.16” smaller than paper at both sides. NOTE: To adjust the curling, refer to 5-12 ADJUST DE-CURLING.

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4-4. ADJUST REAR EXIT TRAY



Check if the stacker guard is set at the right place. Adjust the position according to the paper length.

4-5. START LAMINATION

CAUTION

- Open the front cover. Check that the heating roller lever and the pull roller lever are both in the down position.
- Check that the feeder cover, film cover, and cutter cover are closed.

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1	READY ○ ----- READY ----- TEMP:210 SPEED:60 SET :12/100 COUNT:12345 CUT:1 Check settings. Check that the READY lamp lights. Check that the display shows “READY”.
2	START Press START key. Lamination starts. NOTE: To adjust curling, refer to 5-12 ADJUST CURLING.

4-6. STOP LAMINATION

4-6-1. STOP MANUALLY



During lamination you can stop at any time by pressing the STOP key.

NOTE:

- Lamination will stop when the laminated paper has exited.
- A sheet of paper will be kept in the machine to prevent heating roller from getting sticky.
- Some longer paper sizes may not completely exit. This is normal. Do not try to remove it.

4-6-2. STOP AT FILM END



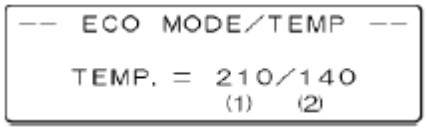
The display “FILM END” will appear and operation will stop.

4-6-3. STOP BY OPERATION [ERROR]

When problems occur operation will stop. The ERROR light will illuminate and an error message will appear on the display. It is important to note the exact error message(s) as this information will aid in troubleshooting. See 7 TROUBLE SHOOTING for more details.

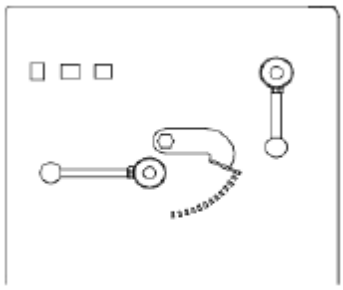
NOTE

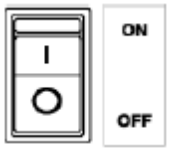
ECO MODE

	 • The machine enters ECO MODE when the machine is idle of the operation panel has not been operated for more than 30 minutes. 1) Shows the current temperature. 2) Shows the ECO MODE (target) temperature that is to be maintained in ECO MODE. • Buzzer will beep one minute before entering ECO MODE. • Press any key to override the upcoming ECO MODE and return to normal operation mode. • The heater will turn off when the machine is idle for one hour.

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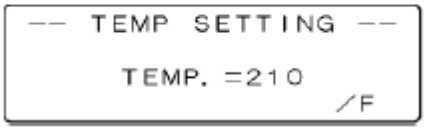
4-7. FINISH LAMINATION

1	 When you finish the operation turn the heating roller lever to the UP position to release pressure on the rollers.

2	 Turn the switch off and unplug.

5. CHANGE SETTINGS

5-1. SET TEMPERATURE

1	  Press [TEMP./SPEED] key. This display appears. NOTE: • The default is the set temperature stored in the film.
2	 Press [UP] or [DOWN] scroll key to set temperature. Temperature can be set in 5 or 10°F increments. The temperature display blinks during set mode.
3	 Press [TEMP/SPEED] to confirm. The temperature also confirms if [TEMP/SPEED] key is not pressed for 10 sec. The display returns to the initial display or the warm-up display. When the set temperature is 140°F, press DOWN scroll key, and the display shows “OFF”.

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NOTE CURRENT TEMPERATURE

	 Press [TEMP/SPEED] to confirm. The temperature also confirms if [TEMP/SPEED] key is not pressed for 10 sec. The display returns to the initial display or the warm-up display. When the set temperature is 140°F, press DOWN scroll key, and the display shows “OFF”.

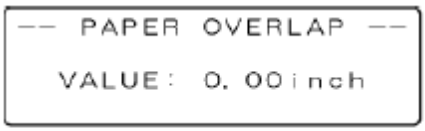
5-2. SET SPEED

1	Press [TEMP/SPEED] key two (2) times.   This display appears. **NOTE** • The default is the set speed stored in a microchip in the film core.
2	 Press [UP] or [DOWN] scroll key to set speed. Speed can be set by 4”/min increments. The speed display blinks.
3	 Press [TEMP/SPEED] key again to confirm. The speed also confirms if [TEMP/SPEED] key is not pressed for 10 seconds. The display returns to the initial display or the warm-up display.

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	NOTE • The speed setting range is from 40~120”/min.

5-3. ADJUST PAPER OVERLAP (during operation)

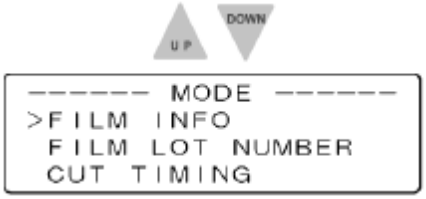
1	 Press [TEMP/SPEED] key three times.  This display appears. **NOTE** • The initial value is set at 0.00”.
2	 Select the value you want by pressing [UP] or [DOWN] scroll key. The amount of overlap can be set in increments of 0.04 and vice versa.
3	 Press [TEMP/SPEED] key again to confirm. When no keys are pressed for 10 seconds, the set value is confirmed and the display returns to the initial display or the warm-up display. **NOTE** • Overlap can be adjusted within the range of +/- 0.32. • The amount of overlap can be set in increments of 0.04 and vice versa. The scale 0.04 means approximately 0.04”. This amount is subject to paper and settings.

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	• This value is retained in memory after power off.

5-4. CHECK FILM INFO

Control the set data of the film on the FILM DATA mode.

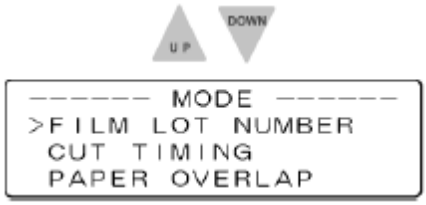
1	 Press [MODE] key.
2	 Select FILM INFO by pressing [UP] or [DOWN] scroll key.
3	 Press [MODE] key. This display appears. Control film specifications and the amount of film

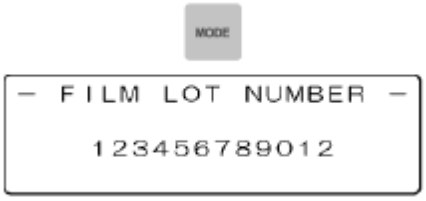
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	remaining. **NOTE** ・The type of film and the amount of film remaining are shown in the display.
4	 Press [MODE] key again to return to the initial display. The display returns to the initial display or the warm-up display when no keys are pressed for 5 sec.

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5-5. CHECK FILM LOT NUMBER

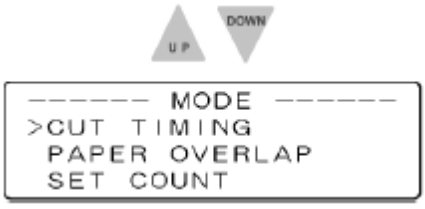
1	 Press [MODE] key.
2	 Select FILM LOT NUMBER by pressing [UP] or [DOWN] scroll key.

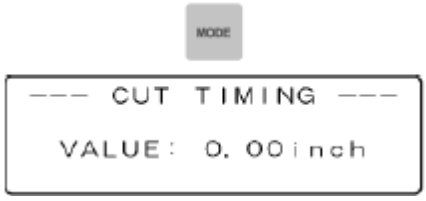
3	 Press [MODE] key. The film lot number is displayed.
4	 Press [MODE] key again to return to the initial display. The display returns to the initial display or the warm-up display when no keys are pressed for 5 sec.

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5-6. SET CUT TIMING

When “CUTTING ERROR” is displayed, adjust the cutting position by setting the CUT TIMING parameter.

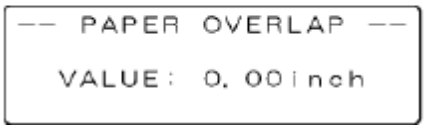
1	 Press [MODE] key.
2	 Select CUT TIMING by pressing [UP] or [DOWN] scroll key.

3	 Press [MODE] key. This display appears. **NOTE** ・The initial value is set at 0.00”.
4	 Select the value you want by pressing [UP] or [DOWN] scroll key. **NOTE** ・The starting point of the blade varies within the range of +/- 1.20”. • [▲] Every time the UP key is pushed, the blade moves 0.04” to the outer side (the cut starts later, separation is made closer to the base of the blade). • [▼] Every time the DOWN key is pushed, the blade moves 0.04” to the inner side (the cut starts sooner, separation is made closer to the tip of the blade). • The cutting must be done on the straight side of the blade, not the V-shaped side of the blade.
5	 Press [MODE] key again to confirm. The display returns to the initial display or the warm-up display when no keys are pressed for 5 sec. This value is retained in memory even after power off.

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5-7. ADJUST PAPER OVERLAP (while not running)

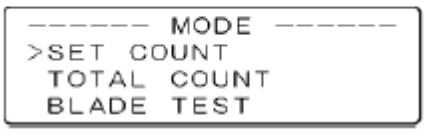
When the display shows OVERLAP ERROR, adjust the amount of paper overlap on PAPER OVERLAP mode.

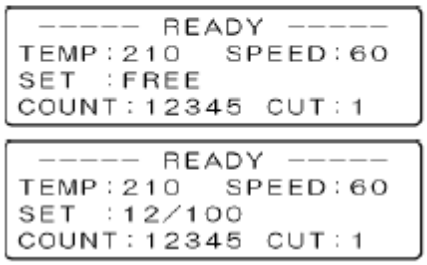
1	 Press [MODE] key.
2	  Select PAPER OVERLAP by pressing [UP] or [DOWN] scroll key.
3	Press [MODE] key.   This display appears. **NOTE** • The default is set to 0.00”.
4	Select the value you want by pressing [UP] or [DOWN] scroll key.  **NOTE** ・Overlap can be adjusted within the range of +/- 0.32”. ・The scale 0.04 means approximately 0.04”. This amount is subject to paper and settings.

5	Press [MODE] key again to confirm. The display returns to the initial display or the warm-up display when no keys are pressed for 5 sec.  This value is retained in memory even after power off.

5-8. SET COUNTER

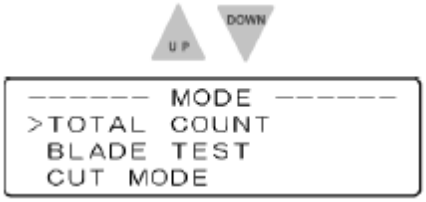
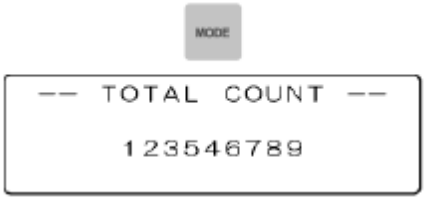
Set the number you want to laminate on SET COUNTER mode.

1	 Press [MODE] key.
2	  Select SET COUNT by pressing [UP] or [DOWN] scroll key.
3	Press [MODE] key.   This display appears. **NOTE** • The default is set to FREE.

4	 Press [UP] or [DOWN] scroll key to enter numeric values. You can set up to 300.
5	Press [MODE] key to confirm. When no keys are pressed for 5 seconds, the set value is confirmed and the display returns to the initial display or the warm-up display.   This display shows an example of setting FREE. This display shows an example of setting 100 sheets. **CAUTION** • The counter may count the sheet if an error should occur. • This value is not retained in memory after power off.

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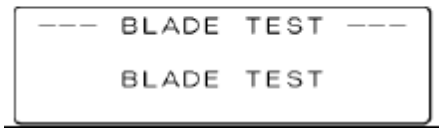
5-9. TOTAL COUNTER

1	 Press [MODE] key.
2	 Select TOTAL COUNT by pressing [UP] or [DOWN] scroll key.
3	Press [MODE] key.  The number of total count is shown in the display. **NOTE** • The accumulated number of laminations is displayed. Counts up to 999999999 until counter is reset.
4	 Press [RESET] key to clear the accumulated number and return to 0.

5	 The display returns to the initial display or the warm-up display when [MODE] is pressed or no keys are pressed for 5 sec.

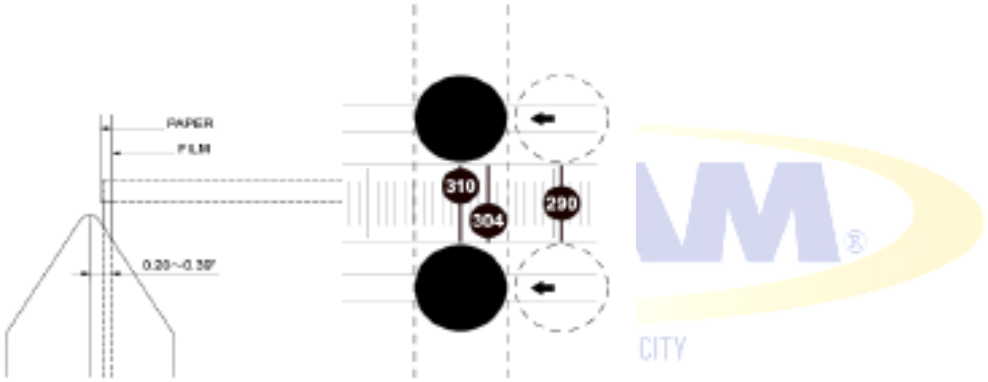
5-10. ADJUST BLADE READY POSITION

Adjust the starting point of the blade according to the width of PLUSTER FILM. The Blade Test will not operate with any of the top covers open. Adjustments to the Feeder Tray and Decurling Bar should be made first before cutter blade adjustments are made. The position of the paper should be finalized before any detailed adjustment of the cutter blade is attempted.

1	 Press [MODE] key.
2	 Select BLADE TEST by pressing [UP] or [DOWN] scroll key.
3	Press [MODE] key.   This display appears.
4	

Press [START] key.

The blade moves to its ready position. Press [START] key again. The blade moves to the starting point at the opposite side. Press [START] key again. The blade moves to its ready position. The blade moves in this order by pressing the [START] key.



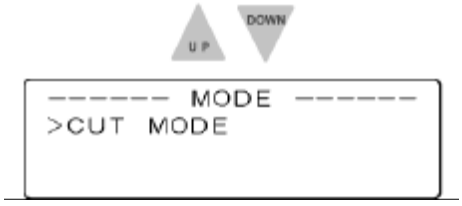
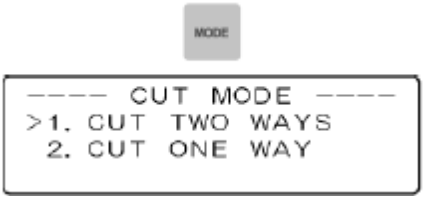
Adjust the ready position so that the blade is in the recommended position of 0.20~0.39” as shown in the diagram. By moving the knobs to the left or right, the blade ready position can be altered. **NOTE** ・Use the divisions at the blade position knobs to find out the right position.

5	 Press [STOP] key. The display returns to the initial display. When no keys are pressed for 5 seconds, the display returns the initial display.

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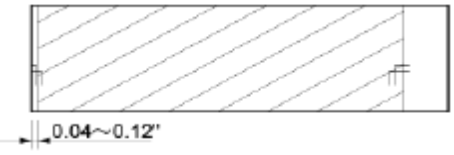
5-11. SET CUT MODE

Blade movement can be set to either one way cutting or two way cutting. The one way cutting is applied when: The paper margins on both sides are not equal because the printing surface is not centered on the paper leaving less margin on one side (i.e. less than 0.16”). Adjustments to the Feeder Tray and de-curling Bar should be made first before cutter blade adjustments are made. The position of the paper and the setting of the de-curling Bar should be finalized before any detailed adjustment of the cutter blade should be attempted.

1	 Press [MODE] key.
2	 Select BLADE TEST by pressing [UP] or [DOWN] scroll key.
3	Press [MODE] key.  This display appears.
	【CUT TWO WAYS】 Blade moves and does cutting in both directions. Paper margin requires 0.16” and more at both sides. 

【CUT ONE WAY】

Blade does cutting from operation panel side only and goes back to the ready position on the operator side of the machine. This mode applies to the paper which has fewer margin than 0.12" at the opposite side. **NOTE** ・The paper must be positioned on the Feeder Tray so that the wider margin is on the operator side.



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4 UP DOWN Choose [1] or [2] by pressing [UP] or [DOWN] key.

5 MODE Press [MODE] key to confirm.

The display returns to the initial display or the warm-up display when no keys are pressed for 5 seconds.

NOTE

- One way cutting will always start from the operation side. When the blade is at the opposite side (non-operator side) it will move back to the operation side when this mode is selected.
- This setting is not retained in memory after power off.

	.

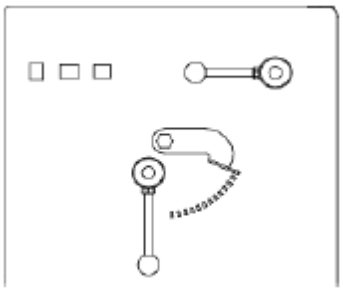
CAUTION

The adjustment must be done while the machine is not running. Do not attempt to adjust the Decurling Bar while laminations are being made.

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5-12. DE-CURLING

1



Turn the pull roller lever to the UP position. The heating roller stays in the DOWN position.

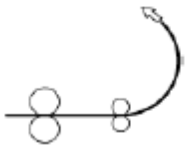
Pull and move the de-curling lever to the position you want. By leasing the lever it will lock into place.

It is recommended to start lamination setting the de-curling Lever to the center “0”. The amount of de-curling will increase with the lever towards the left side.

Thinner paper to the left (more positive, or more de-curl)

Thicker paper to the right (more negative, or less de-curl)

NOTE:

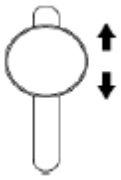


Hot lamination has a tendency to curl upwards, therefore more de-curl will necessary.

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5-13. ADJUST FEEDING PRESSURE

Adjust the feeding pressure when feeding has a problem or more than one sheet is fed.



Loosen the pressure knob. Adjust the pressure by raising/lowering the knob. The knob should be securely fastened.

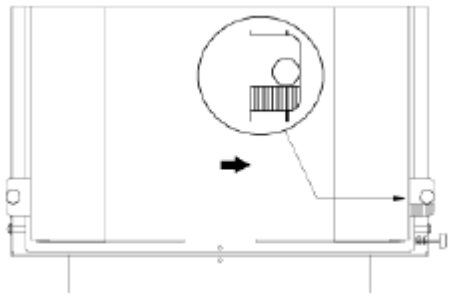
NOTE

- If the paper is thick, increase the pressure. If the paper is thin, decrease the pressure. The amount of adjustment varies according to paper specifications.

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5-14. ADJUST PAPER POSITIONING

The position of the paper in the feeding tray is decided based on the center point marked on the tray.

1	 If the positioning is not good, figure out the amount and direction you want to adjust.
2	 Adjust the amount and direction of the feeder tray by using the Feed Adjustment Knob. NOTE • In order to avoid cutting error, film must be more than 0.16” smaller than paper at both sides.

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5-15. ADJUST FILM TENSION

1	 Adjust the film tension by loosening or tightening the adjustment screw shown in the picture. When the film is too loose, slowly turn the dial clockwise. If the film tension is too tight, turn the dial counter-clockwise. NOTE • Normally the film tension does not need much adjustment.
2	When the film tension is tight, films tends to shrink. You can prevent this by slightly moving the film guide bar to your direction. NOTE • It is recommended to cut the film after the operation to prevent further shrinkage.

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6. CLEANING

NOTE

Be sure that the machine is unplugged.
Before cleaning the machine, turn off and let the machine cool down, as the machine gets very hot.
Wipe off stains with a soft cloth.

6-1. CLEANING OF FEEDER SECTION

1	 Clean the roller with a soft cloth. Remove any stuck paper.

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6-2. CLEANING OF LAMINATION SECTION

NOTE

Lamination section gets very hot. Be careful not to get burned.

1	 Turn the heating roller to UP position. Remove any stuck paper.

2	 Clean the heating roller. Remove any stuck paper.

6-3. CLEANING OF DISCHARGE

1	 Clean the discharge rollers. Remove any stuck paper.

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7. TROUBLE SHOOTING

PROBLEM	CHECK IF	SOLUTION	PAGE
● CUTTING ERROR	Cutting blade is not working properly.	・Close the cutter cover. ・Press [RESET] key to put the cutting blade back into the starting position.	43
	Paper is jammed inside the machine.	・ CAUTION: Do not touch the cutter unit. ・Close the cutter cover. ・By using the manual feed switch, remove the jammed paper. ・Press [RESET] key.	14
	Laminated upward paper curls	・CAUTION Be careful that your fingers or clothes do not get caught in the rollers. ・Turn the pull roller lever upward. Adjust the de-curling lever to decrease the curling.	47
	The margin of the paper and film is less than 0.16”.	・Adjust the paper position in the feeder tray. ・The film must always be smaller than the paper by 0.16” at both sides.	49
	The starting point of the cutting blade is not correct. Paper is cut irregularly.	・Change the value of cut timing. ・The cutting must be done on the straight portion of the blade, not the V-shaped portion of	37

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	the blade.	

PROBLEM	CHECK IF	SOLUTION	PAGE
● PICK ERROR	The first sheet of paper is partially fed into the machine.	・Slide the paper back to the magnetic stop on the Feeder Tray. ・Make the paper flush on the tray. ・Press [RESET] key.	21
	More than two sheets are fed into the machine.	・Remove the paper. ・Hold the stack of paper vertically and tamp it down and fan the paper well. ・If papers are curling, make them flat. ・Control the level of feeding pressure by raising it upward to resist multiple sheets. ・Press [RESET] key.	47
	Paper is not fed at right angle.	・Remove the papers. ・Control the level of feeding pressure. ・Fix the feeder paper guide firmly in the right position. ・Press [RESET] key.	21 47
	The feeding roller is dirty.	・Remove the papers. ・Clean the feeding roller with soft cloth.	

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		・Press [RESET] key.	50

PROBLEM	CHECK IF	SOLUTION	PAGE
● FEEDING ERROR	Paper is stuck between the feeder section and the lamination section.	・Open the feeder cover. ・Remove all the jammed paper. ・Press [RESET] key. **CAUTION** ・Laminating rollers get hot. Be careful not to get burned.	11
● DISCHARGE ERROR	Laminated paper is stuck in the lamination section and/or the cutter section.	・Open the feeder cover and the cutter cover. ・Remove the jammed paper by using the manual feed switch. ・Press [RESET] key.	11
		・**CAUTION** Laminating rollers get hot. Be careful not to get burned. ・Be careful that your fingers or clothes do not get caught in the rollers.	14
	Heating roller lever or Pull roller lever is in UP position.	・Turn the pull roller lever and heating roller lever to DOWN position. ・Press [RESET] key.	23

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CONTROL FILM/PAPER ERROR	Film has ended.	・Remove the empty film roll ・Press [RESET] key. ・Change film roll. **CAUTION** ・Laminating rollers get hot. Be careful not to get burned. Occurs when paper is not set correctly in the lamination area. Press "FILM SET"	23

PROBLEM	CHECK IF	SOLUTION	PAGE
● COVER OPEN ERROR	One or more covers are open.	・Close all covers. ・Press [RESET] key.	-
● OVERHEAT ERROR		・Turn off the power. ・Then turn the power back on. Normally the problem will be solved. ・If this problem occurs many times, contact your dealer.	-
● TEMP.SENSOR CUT (disconnected) ERROR		・Turn off the power. ・Contact your dealer. **CAUTION** ・Do not dismantle the machine.	-

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● TEMP. SENSOR SHORT (short- circuited) ERROR		・Turn off the power. ・Contact your dealer. ・**CAUTION** Do not dismantle the machine.	-
● MAIN MOTOR ERROR		・Turn off the power. Then turn the power back on. Normally the problem will be solved. ・If this problem occurs many times, contact your dealer.	-

PROBLEM	CHECK IF	SOLUTION	PAGE
● Blade does not cut well.		・Blade may be worn out. ・Contact your dealer. **CAUTION** ・Do not dismantle the machine.	-
● Paper and/or film has been entangled on the heating roller.		・Turn the heating roller lever to UP position. ・Remove paper and/or film carefully by using the manual feed switch. This switch can work only when all the covers are closed. Repeat the manual feed forward or backward until the paper and/or film is removed. ・If glue has stuck to the rollers, wipe it off.	14 50
● The laminated film has creases.	Film Tension Knob is too loose.	・Tighten the film tension.	

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			49
● [NOT READY] appears on the display and cannot clear.	After solving problems, [NOT READY] appears.	・Remove paper in the machine. Set film again.	-
● More than two sheets are transported at one time.	Each sheet of paper is too tightly stacked.	・Hold the stack of paper vertically and tamp it down and fan the paper well. Even it up.	47
	Paper is curling.	・De-curl paper. ・Adjust the feeding pressure.	-

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PROBLEM	CHECK IF	SOLUTION	PAGE
● Paper in the feeder tray is not picked up.	Due to paper not being pulled by the feeding roller.	・Open the feeder cover and inspect for any debris. Also, clean the rollers.	11
	Due to too much resistance by the paper pressure lever	・Lower the paper pressure lever	
	Paper is curling.	・Be certain paper lies flat before placing it on the Feeder Tray.	-

8. SPECIFICATIONS

Model	PLS3311
Processing Speed	40~120” /min (360 sheets/hour based on 12.59” x 17.71” size)
Warm-Up Time	10 min.
Temperature Setting	140~270°F at room temperature*
Laminating Film	Exclusive PLUSTER FILM, available in several formulations and widths
Feeder Max. Load	1.6” (Equivalent to 300 sheets of 0.032lbs/ft2 [157g/m2] paper)
Rear Stacker Max. Load	2.4” (approx. 450 sheets)
Paper Thickness	0.021~0.064lbs/ft2 [104.7 ~ 314.0g/m2] 38-116 lb. cover (104.7-314.0 gsm)
Max. Paper Size	Stock: 14” (W) × 19-5/8” (L) (4/18/11- Current software will process 25” maximum paper length, however, feed and exit trays will require modification for that length. Feed table will accept 20.5” maximum- bj)
Min. Paper Size	10-23/32” (W) × 11-7/8” (L)
Max. Laminating Thickness	0.02” (Incl. film thickness)
Power Supply	AC120V (60Hz)
Power Consumption	1,000W
Dimensions	65.12” (W) x 24.21” (D) x 44.29” (H) (with Feeder Tray and Rear Stacker)
Weight	204.1lbs (Laminator 189.6lbs, Feeder Tray 7.9lbs, Rear Stacker 6.6lbs)
Condition of use	32~105°F (better at 68±40°F) / not above an altitude of 6560’

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Accessories	Feeder Tray, Extension Tray, Feeder guard, Rear Stacker, Stacker Paper Guard, Film Spacer, Power Cable, Stand, Instruction Manual, Stand assembly instruction

* Warm-up time may differ according to the environment and the settings.

(end)

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