



Roll Laminator Operating Manual

TCC-1200

45" Wide Format Hot and Cold Laminator

OPERATING INSTRUCTIONS

TCC1200

1 IMPORTANT SAFEGUARDS

When using electrical machines, basic precautions should always be followed to reduce the risk of electric shock and injury to people, including the following:

1. Read all instructions.
2. Please note that this machine runs on 220V/60Hz with a rated current requirement of 12A~14A and comes with a single phase **NEMA L6-20** AC plug. Make sure the location where the machine will be installed has the corresponding power source and receptacle appropriate for the machine's electrical specifications.
3. Always unplug the machine when not in use or before cleaning.
4. Do not use outdoors.
5. Extreme caution should be taken when the machine is used by or near children or disabled persons.
6. To protect against risk of electrical hazards, do not immerse cord, plugs, or the whole machine in water or other liquids.
7. Do not operate the machine with a damaged cord or plug, or after the machine malfunctions, has been dropped or is damaged in any manner. Return the machine to the nearest authorized service facility for examination, repair, or adjustment. **Please keep the original packaging to ensure that the machine is secure and protected when returning for repair. This is particularly important when returning the machine for repair within its warranty period.**
8. Do not use accessory attachments not recommended or sold by the machine's manufacturer.
9. Do not let the cord touch hot surfaces or hang over the edge of the work table.
10. Do not use the machine for other than its intended use. This machine is intended for Office or Household use only.
11. The socket outlet shall be near the machine and shall be easily accessible.
12. Warning-hazardous moving parts-keep fingers and other body parts away.

2 LOCATION

1. Please remove the laminator carefully from its packaging and place it on a flat work surface. Place the machine in an area where it will normally be used, ensuring adequate room for the finished laminate to flow or slide out at the back.
2. Please install the shield and feed tray at the correct positions until the two LED lights on the left side panel turn off, otherwise the machine will not feed the film.

3 MACHINE OPERATION

A. LAMINATING FUNCTION (1) TWO-SIDED LAMINATION

LOADING THE FILM

This machine has the capability of loading laminating film with 1” cores or with 3” cores using the included core adapters. Unpack the upper and lower rods. Remove the feed tray. **Load the film onto the rods by turning the top rod clockwise and the bottom rod counter-clockwise as you push the rods through. Make sure to leave equal lengths of rod out of each end using the guide marks to correctly position the roll of film.** Load the rods on the laminator. When using the adapters for film with 3” cores, follow an adapter---film---adapter sequence onto the rod and fit the adapters onto the paper core. **Note: you cannot interchange the upper and lower rods.**

THREADING THE FILM

Read the threading card supplied with each roll of film carefully. Do not mistake the stabilizer bar for the idler roller.

1. To thread the film through the “hot rollers” & “pull rollers”, please push the handle forward to release pressure on all the rollers and insert the handle pin into the farthest notch to lock the handle in place. Make sure the motor control switch is on “STOP” position.
2. Thread the film by the rollers and make sure the film is perfectly aligned at the top and bottom (Note: Overlap will cause the top film to deposit adhesive on the hot rollers and pull rollers, so this procedure is critical.)
3. Make sure the film is correctly threaded based on the threading guide. A threading diagram is also located on the right side panel of the machine.

ADJUSTING THE FILM TENSION

The top and bottom supply rolls should have about the same tension. By turning the top roll with one hand and the bottom roll with the other, it can be determined if one of the rolls is tighter than the other. Also, if the tension is not equal between the top and bottom rolls, the laminated product will curl. If it curls up when it comes out of the machine, the top roll is likely tighter than the bottom. If it curls down, the bottom roll is likely tighter. To increase tension, turn the adjusting knob clockwise. To decrease tension, turn the knob counter clockwise. Even tension on the top and bottom rolls ensures flat lamination.

ADJUSTING THE TEMPERATURE & SPEED

1. User should set up the temperature for upper and lower rollers separately. Turn on the power switch and press the “U” key, then the digital screen display will show the previous temperature setting of upper roller. Press the “TEMP/SET” “^” or “~” arrow keys to adjust the temperature to the recommended setting based on the thickness of film being used. Similarly do the same way to set up the temperature of bottom roller by pressing the “L” key. Said recommendations are found in front of the machine’s right side panel. The digital screen display will beep showing the set temperature for about 3 seconds before showing the actual machine temperature.

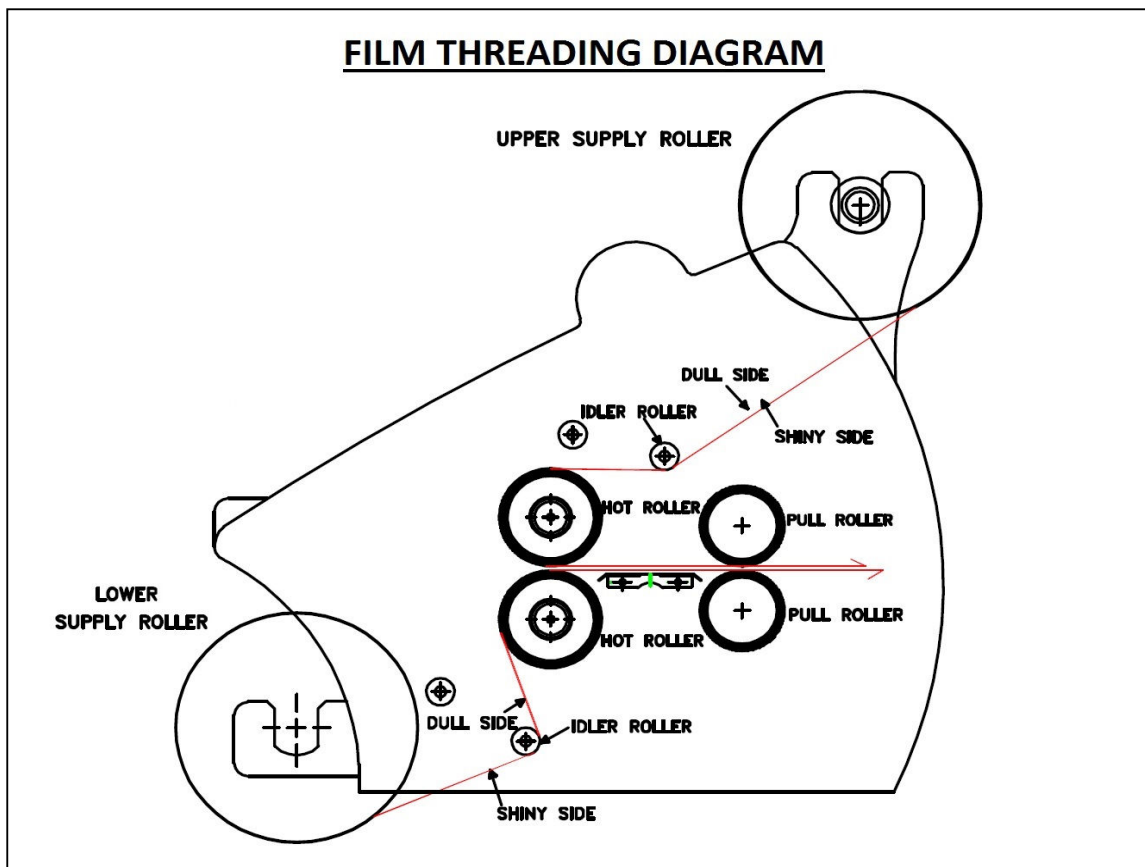
NOTE: To check the current temperature or temperature setting of upper or lower roller, please press the “U” or “L” key.

2. Once the temperature is set, press the “HOT” key to start the heating process and the heater light will turn on. Once the set temperature is achieved and the roller temperature is stabilized, the machine will start beeping and the ready light will turn on. Once the ready light stays on, you can set the recommended speed.
3. Press the “MOTOR” “^” or “~” arrow keys to set the motor speed. The following table gives some common temperature/speed setting for typical uses. Wait another 10 ~12 minutes before starting the lamination job.

Film Thickness	Temperature	Speed
1.5 Mil (38 Micron)	105°C (221°F)	3
3 Mil (75 Micron)	110°C (230°F)	2
5 Mil (125Micron)	125°C (257°F)	2
10 Mil (250Micron)	? °C (? °F)	2

LAMINATING PROCEDURES

1. Release the handle from the locked position and insert the handle pin into the “MIN.” notch to engage the rollers. Push the motor Run/Stop switch to RUN position and wait till the film is wrinkle-free before feeding materials to laminate.
2. To put the lamination temporarily on hold without turning off the machine, the user can turn the motor control switch to STOP position. This will cause the motor to stop running and the film will stop feeding.
3. To resume the lamination job, turn the switch to the RUN position again.



(2) ONE-SIDED LAMINATION

LOADING THE FILM

Unpack only the upper rod. Install nylon, BOPP or even thermal film on 1” or 3” core by following an adapter---film---adapter sequence onto the rod and fit the adapters onto the paper core. Leave equal lengths of the rod out of each end. Use the guide to position the roll of film then tighten the screw on the adapter to secure the roll film. Load the rod on the laminator.

*Note: BOPP film is mainly suitable for 1-sided lamination on mounting boards or thick print sheets as it has a natural tendency to curl even with very little heat. For best results on 1-sided lamination without mounting, we recommend using nylon film for this application.

THREADING THE FILM

Refer to threading diagram for one side lamination found on the machine’s right side panel. Do not mistake the reinforcing bar for the idler roller.

1. To thread the film through the “hot rollers” & “pull rollers”, please push the handle forward to release pressure on all the rollers. Insert the handle pin into the farthest notch to lock the handle in place.

2. Push the film through the rollers with a threading card and make sure the film is correctly threaded based on the threading guide.

ADJUSTING THE TEMPERATURE & SPEED

1. Turn on the power switch and make sure to turn off the “BOTTOM ROLLER HEATER” switch on the right side of machine.
2. Press the “U” key and the digital screen display will show the previous temperature setting of upper roller. Adjust the upper roller temperature by pressing the “TEMP/SET” “^” or “~” arrow keys and the digital screen display will beep showing the set temperature for 3 seconds before showing the actual machine temperature.
3. Once the temperature is set, press the “HOT” key to start the heating process and the heater light will turn on. Once the set temperature is achieved and roller temperature is stabilized, the machine will start beeping and the ready light will turn on. Once the ready light stays on, you can set the recommended speed.
4. Press the “MOTOR” “^” or “~” arrow keys to set the motor speed. The following table gives some common temperature/speed setting for typical uses.

Nylon Film Thickness	Temperature	Speed
0.5 Mil (12 Micron)	100°C(212°F)	3 ~ 4

5. Turn on the rear fans to prevent the film from bunching in the back of the machine.

LAMINATING PROCEDURES

1. Release the handle from the locked position and insert the handle pin into the “MIN.” notch to engage the rollers. Make sure the motor switch is in “RUN” position. The user can now start laminating as the machine starts feeding in film.
2. To put the lamination temporarily on hold without turning off the machine, the user can turn the motor control switch to “STOP” position. This will cause the motor to stop running and the film will stop feeding.
3. To resume the lamination job, turn the switch to the “RUN” position again.

(3) COLD LAMINATION

LOADING THE FILM

Unpack the upper and lower supply rods. Install cold laminating film with liner on the upper rod by following an adapter---film---adapter sequence onto the rod and fit the adapters onto the paper core. Using the same installation sequence, install a kraft paper roll of the same width as the top film onto the lower supply rod. Leave equal lengths of the rod out of each end. Use the guide to position the roll

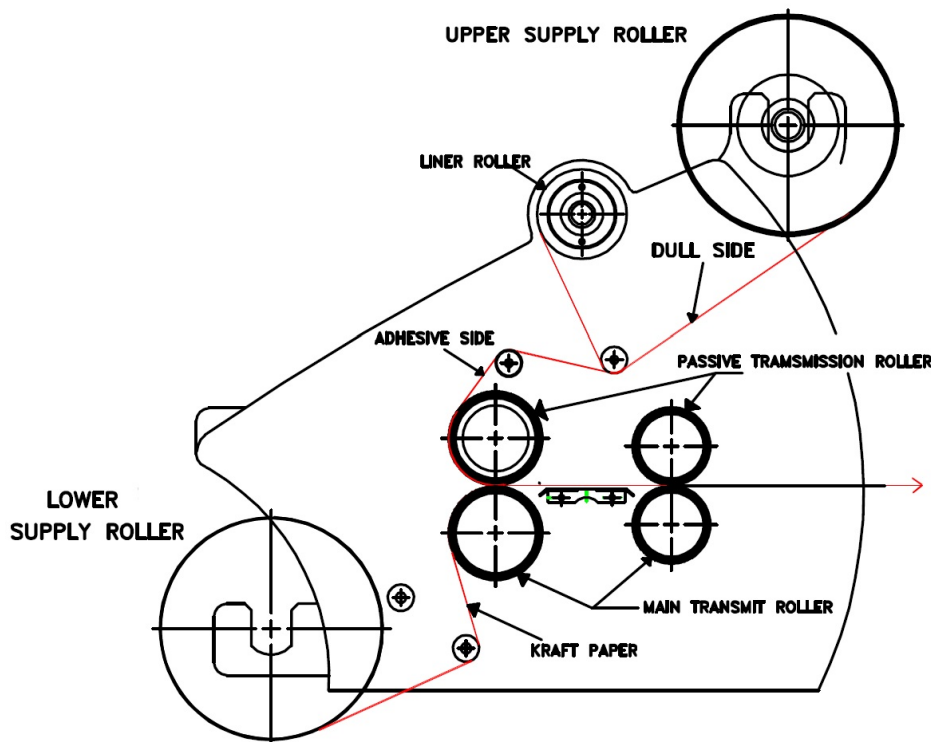
of film then tighten the screw on the adapter to secure the roll film. Load the rods on the laminator and adjust accordingly to make sure the film and the kraft paper are aligned.

THREADING THE FILM

Read the threading card supplied with each roll of film carefully. Do not mistake the stabilizer bar for the idler roller.

1. To thread the film through the “hot rollers” & “pull rollers”, please push the handle forward to release pressure on all the rollers. Insert the handle pin into the farthest notch to lock the handle in place. Make sure the film is correctly threaded based on the threading guide.
2. Peel the leading edge of top film to expose the release liner. Fix the edge of the liner on the receiving roller by using tape. Please see drawing below.
3. Pull the film out and lean the glossy side evenly to the top feed roller.
4. Take the leading edge of the threaded kraft paper and apply evenly onto about an inch from the leading edge of the adhesive side of the laminating film.
5. Make sure the roller tension is the same between the top and bottom rolls. It is important that there is sufficient tension for the receiving roller to remain in tandem with the speed of liner being released from the cold film. (Please refer to “ADJUSTING THE FILM TENSION” on page 2.)

FILM THREADING DIAGRAM FOR COLD LAMINATION



ADJUSTING THE TEMPERATURE & SPEED

1. Turn the machine on. The power switch and the control panel will light up.
2. Set the machine's temperature and then set the desired speed. (Please refer to "ADJUSTING THE TEMPERATURE & SPEED" in previous page.)

LAMINATING PROCEDURES

1. For cold lamination with mounting boards, make sure the print is aligned and set properly onto the mounting board. Release the handle from the locked position and pull towards the desired notch based on the thickness of the product being laminated.
2. For purely cold lamination without boards, insert the handle pin at the "MIN." position. Release the handle from the locked position and insert the handle pin into the "MIN." notch to engage the rollers.
3. Use the foot pedal to feed the film together with a straight and thick cardboard sheet that is as close to the width of the film as possible. Make sure the film is perfectly aligned. As soon as film wrinkles are evened out, the user can start laminating or mounting using standard mounting boards. (For more information on how to optimize the use of the foot pedal, please see **B. FOOT PEDAL OPERATION.**)
4. To put the lamination temporarily on hold without turning off the machine, turn the motor control switch to **STOP** position.
5. To resume the lamination job, turn the switch to the **RUN** position again.

B. FOOT PEDAL OPERATION

This machine is equipped with a foot pedal for easier threading and overall operation.

Note:

1. If the speed is in "0" and motor control switch is in **RUN** position, the motor will not run and rollers will not feed in the film. Stepping on the foot pedal in this instance will activate the motor and start feeding the film. The motor will then stop as soon as pressure is released from the foot pedal.
2. If the speed is on "1" or higher and motor control switch is in **RUN** position, stepping on the foot pedal will automatically make the motor go to speed "9" and the rollers will start feeding film faster. Releasing the foot pedal in this instance will cause the speed to go down to the machine's current speed setting.

C. SAFETY SHIELD AND FEED TRAY SENSORS

Both the safety shield and feed tray activate sensors that allow the bottom roller to feed film when they are properly installed. Removal or misalignment of either or both of these items will cause the LED light to turn on and stop the rollers from feeding even when rollers are engaged. This is a safety feature that prevents fingers or any loose articles like neckties or straps from getting accidentally trapped in between the rollers and causing injury or property damage.

D. TEMPERATURE CONVERSION

This machine can display temperatures in either Celsius or Fahrenheit. To change to either one, simply press and hold the “TEMP/SET” arrow keys simultaneously.

E. GUIDE PLATES

This machine is equipped with guide plates on the left and right sides of the feed tray for proper alignment of materials to be laminated. Aside from being able to laminate 120 cm wide sheets one at a time, the user can also laminate up to two prints (within 60 cm width) simultaneously by aligning them on each of the plates on both sides of the tray.

F. REVERSE FUNCTION

The machine is equipped with a REVERSE function. By pressing the “REVERSE” key, the machine will release the documents out from the front of the machine to prevent any jam or damage.

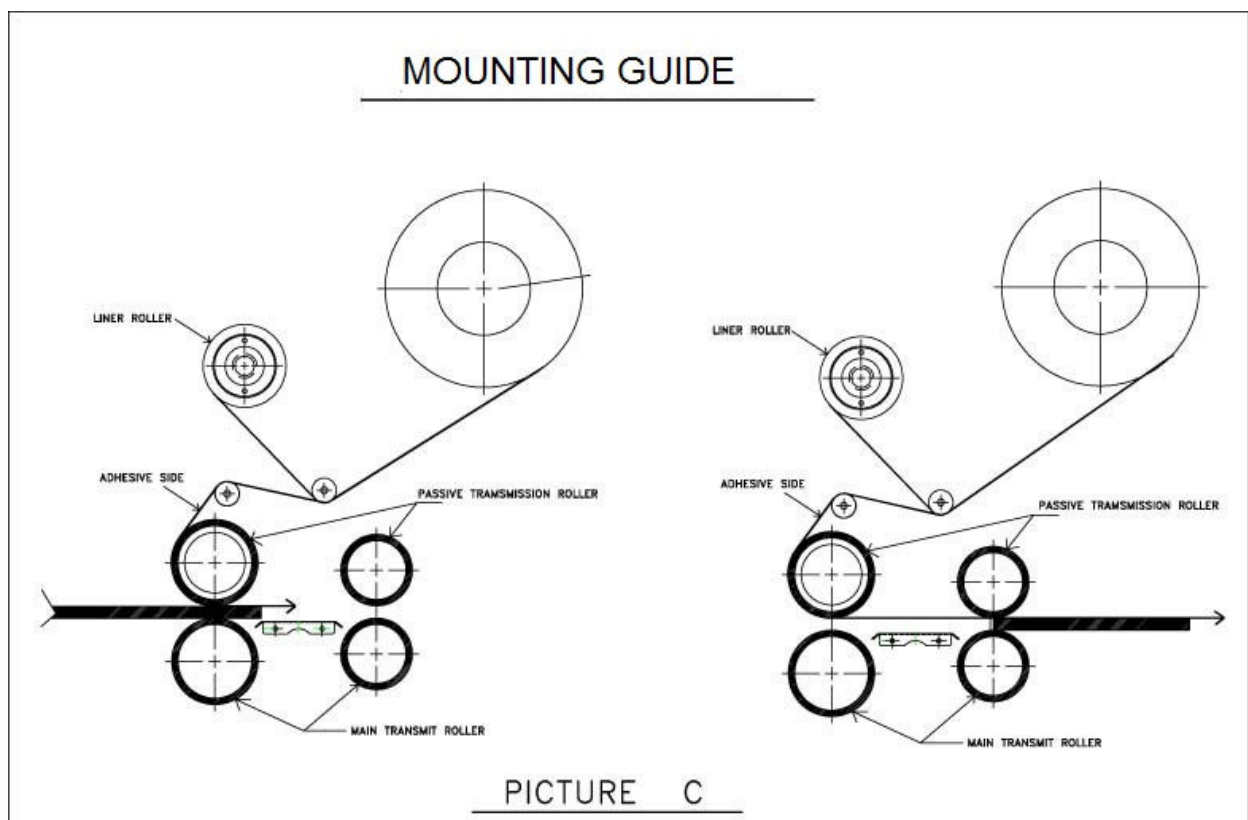
G. MOUNTING FUNCTION

With this machine, the user can choose to mount prints or posters using up to 1/2” thick material.

1. First, set up the machine based on the mounting application to be used:
 - a. For simultaneous mounting and encapsulating using thermal film, simply set the machine up for **2-SIDED LAMINATION**.
 - b. For simultaneous mounting and 1-sided lamination using nylon, BOPP or even thermal film, set the machine up for **1-SIDED LAMINATION** and turn the bottom roller heater switch to OFF position.
 - c. For using either pouch boards or foam boards with heat activated adhesives, no film needs to be installed. Please consult pouch board supplier for ideal activation temperature of their adhesives.
 - d. For cold mounting only using self stick boards that have liners, care and precision must be exercised as this has a tendency to produce wrinkles and/or uneven positioning when the print is not properly set. There is no need for film to be threaded onto the machine and it is recommended to set temperature at 50°C (122°F) on the top roller for best results. Simply remove the liner from

the board, carefully and evenly align the print and set it onto the adhesive side. The pressure applied by the rollers will enhance adhesion of the print onto the board. **Please refer to instructions on how to apply prints on these types of boards that come with their packaging or consult with the mounting board supplier.**

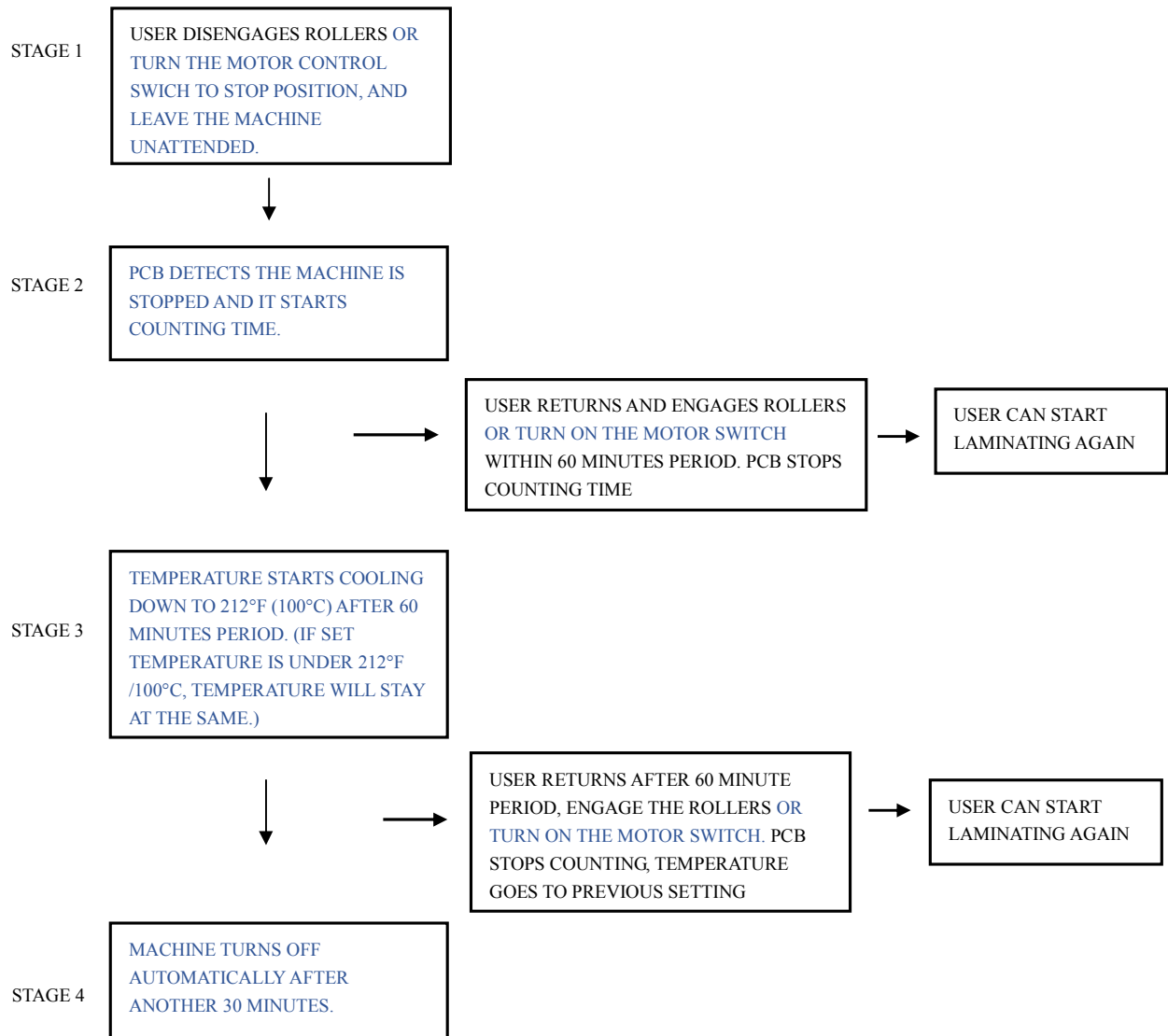
- e. For simultaneous mounting and cold laminating using cold films with liners, set the machine up for **COLD LAMINATION**.
2. As soon as the user has set up the machine, simply align the print evenly onto the board, release the handle from the locked position and pull towards the desired notch based on the thickness of the board being used. Insert the handle pin into the notch to lock the handle in position.
3. Align and press the board between the rollers evenly using the guide plates and step on the foot pedal to start feeding and mounting. Keep your foot on the pedal as long as you need to do mounting. When the mounting job is done or when taking a break, release the pedal to stop the feeding as soon as the last board is all the way through the back of the machine.



H. AUTO SHUT-OFF FUNCTION

This machine is equipped with an auto shutoff feature. When using the machine with this feature, turn on the Auto Shutoff Switch found on the left side panel. The following is a step by step diagram of its operation:

CONTROL PROCESS FOR AUTO SHUT OFF



REMARK:

- 1) AT STAGE 3, THE MACHINE WILL BE ON STANDBY MODE. A LOW BEEPING SOUND WILL BE HEARD EVERY 5 SECONDS TO REMIND THE USER THAT THE MACHINE IS ON STANDBY FOR A FEW MORE MINUTES BEFORE COMPLETELY SHUTTING OFF.
- 2) AT STAGE #4, THE MACHINE IS OFF BUT THE POWER SWITCH IS AT THE "ON" POSITION. **USER NEEDS TO TURN THE POWER SWITCH OFF AND THEN ON AGAIN TO RESTART THE MACHINE.** PRESS THE HOT BUTTON TO RETURN TO PREVIOUS TEMPERATURE. CONTINUE THE LAMINATION JOB AS SOON AS PREVIOUS TEMPERATURE IS REACHED.
- 3) TO DISENGAGE AUTO SHUTOFF FUNCTION, TURN "AUTO SHUTOFF" SWITCH OFF.

I. FILM SLITTER

This machine is equipped with safety film slitter in the back of the machine for trimming film in between sheets of laminated material. Simply slide the cutting edge across the film to remove the finished material.

J. EMERGENCY STOP BUTTONS

In case of emergencies, press either front or back red emergency buttons to immediately stop the motor and turn off the machine. To restart the machine, turn the power switch on and turn the button that was pressed clockwise to release it. Reset the machine's temperature to the previous setting and continue with the laminating procedures.

4 TURNING OFF THE LAMINATOR

Upon completion of the laminating job, please press the "COLD" key to turn off the heat. We recommend turning off the machine only after the roller temperature is lower than 100°C (212°F). Make sure the rear fan switch is also turned off.

In case you need to turn the machine off while the roller temperature is higher than 100°C (212°F), simply make sure the rollers are separated/not engaged, the fans are turned off and the handle is locked in at least the 3/16" position before turning the power switch off.

5 CARE AND CLEANING

This machine is for Office or Household use only. Any servicing, other than cleaning and user maintenance, should be performed by an authorized service representative.

1. Do not immerse in water.
2. To reduce the risk of fire or electric shock, do not remove the machine's 4 rubber foot pads.
3. Keep your hands and cord away from hot parts of the machine during operation.
4. Never clean with scouring powders or hand implements.
5. Wipe clean with a soft cloth.

6 WARRANTY

This machine is guaranteed against defects in materials and workmanship by the Manufacturer for a period of one (1) year from the date of original purchase from an authorized distributor of Tamerica Products, Inc. If you perceive or experience any issue with the machine, kindly report it to the distributor within 10 business days of said purchase to avail of free pickup and redelivery from Tamerica's Service Center. After the first 10 days, you will either receive service instructions and parts via mail free of charge for the duration of the warranty.

Note that when returning the machine for warranty claims, the machine should be returned in its complete original packaging to avoid incidental or consequential damages that may void the claim. A copy of the invoice or other proof of purchase also needs to be sent with the machine.

Upon evaluation of the machine and the determination of the actual defect, the machine will be restored to its regular working condition by the Service Center and shipped back to you free of charge. If you change your mind and simply want to return the machine, a 20% restocking fee is charged even within the 10-day grace period. Further, you will have to cover freight to return the machine and it has to be in brand-new resalable condition, otherwise, you might incur more charges.

This warranty covers all defects incurred in the normal use of the equipment except in the following cases:

1. Loss or damage to the equipment due to improper operation, abuse, mishandling or failure to follow the operating instructions.
2. Removal or alteration of the serial number.
3. The machine being serviced or modified by anyone other than a certified technician authorized by TAMERICA.

This warranty expresses the entire obligation of the Manufacturer. Unless prohibited by law, neither this warranty nor any other warranty expressed or implied, including implied warranties of merchantability, shall extend this warranty period. Again, no responsibility is assured for incidental or consequential damages.

This warranty is valid only within the United States, or its provinces and territories.