



FXSchool
Roll Laminator

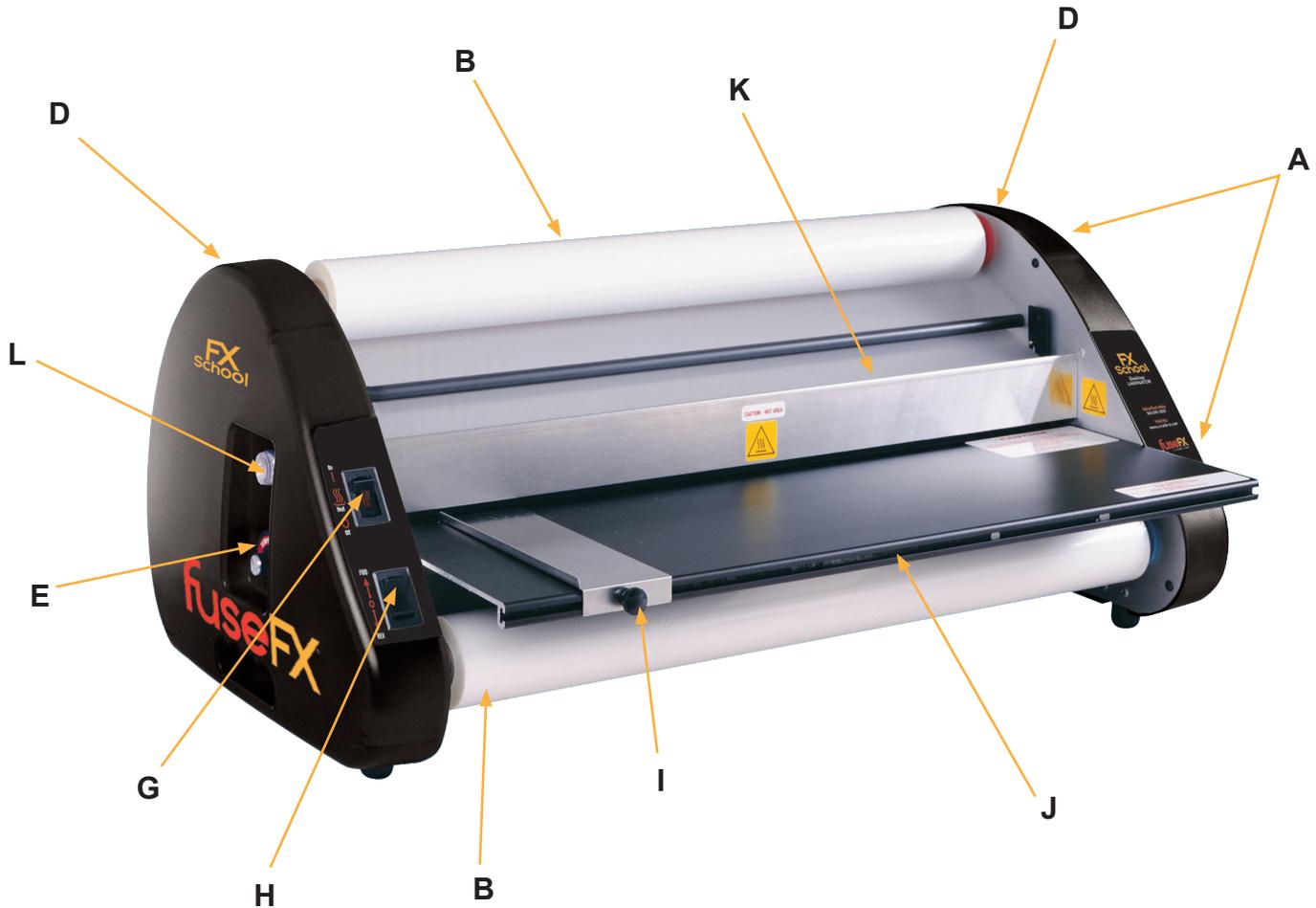
Owner's Manual

FuseFX®
A DataBind Company

Technical Service: 1-860-265-3222

FXSchool

- A Tension Adjusting Knobs
- B Color Coded Supply Mandrel (holds film)
- C Heat Guard
- D Side Housing
- E Temperature Adjustment Knob
- F Easy-lift Handles
- G Heat ON/OFF Switch
- H Motor Drive Switch
- I Paper Guide
- J Feed Tray
- K Heat Shoes (behind heat guard)
- L Thermometer



FXSchool

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OWNERS MANUAL

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IMPORTANT INFORMATION

PLEASE DO NOT DESTROY THE SHIPPING CARTON!

DataBind urges you to store the original carton in which your laminator was shipped. Should you ever need to return your laminator to our service and repair center, it is best repacked in the original carton to avoid damage during transport. Our special carton ensures the laminator's safe transit to our facility. Failure to use original packaging will result in a repacking fee. If you have any service inquiries, please contact DataBind Technical Support Hotline at 860-265-3222.

The details given in this manual are the most current available and they may be subject to change in the future. We retain the right to make changes to the construction or design of the equipment without accepting any responsibility for modifying earlier versions previously delivered.

Warranty: A five-year warranty will be issued from the date of product shipment. Please supply the model and serial numbers on all correspondence concerning your laminator.

EQUIPMENT WARRANTY

We warrant to the original purchaser the equipment manufactured to be free from defects in material and workmanship under normal use and service. Our obligation under this warranty shall be limited to the repair or exchange of any part or parts which may prove in manufacture under normal use and service within one year from the date of shipment and which our examination shall disclose to our satisfaction to be defective. *Warranty does not include* damage due to operator error or general maintenance. When necessary, purchaser shall properly repack and return the unit to the DataBind Corporation, *freight and insurance prepaid*.

Note: *You will be charged for the replacement of any parts which are damaged as a result of improper packaging.*

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING THE WARRANTIES OF MERCHANT ABILITY AND FITNESS FOR USE AND ALL OTHER OBLIGATIONS OR LIABILITIES ON OUR PART, AND WE NEITHER ASSUME NOR AUTHORIZE ANY OTHER PERSON TO ASSUME FOR US, ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THIS LAMINATING MACHINE OR ANY PART THEREOF WHICH HAS BEEN SUBJECT TO ACCIDENT, NEGLIGENCE, ALTERATION, ABUSE OR MISUSE. WE MAKE NO WARRANTY WHATSOEVER IN RESPECT TO ACCESSORIES OR PARTS NOT SUPPLIED BY US. THE TERM "ORIGINAL PURCHASER," AS USED IN THIS WARRANTY, SHALL BE DEEDED TO THE PERSON OR COMPANY WHO FIRST PUTS THE EQUIPMENT INTO SERVICE. THIS WARRANTY SHALL APPLY ONLY WITHIN THE BOUNDARIES OF THE CONTINENTAL UNITED STATES.

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For your safety

Please review the following safety precautions

- **Do not** connect the laminator to electrical power or attempt to operate it until you have read the OWNERS MANUAL completely *and* understand it. If there are any areas of proper laminator operation that you do not understand, contact Technical Assistance (1-860-265-3222) for recommendations. Keep this manual in a convenient location for future reference.
- Read all safety messages located in this OWNERS MANUAL and on the laminator very carefully.
- Use care in unpacking and lifting the laminator, as it weighs 80 pounds. Keep the laminator level when lifting or moving it.
- Consider the work area. A cluttered work space can lead to accidents. The laminator should be placed on a level, sturdy surface. **Do not** operate the laminator in a damp or wet environment. **Do not** operate electrical devices in the presence of flammable liquids, solvents or in gaseous/explosive atmospheres. Keep the work area well lit. Allow sufficient access to the front and the back of the laminator.
- Respect the heated rollers. Operating temperatures are hot enough to burn skin. If clearing a film wrap-around or jam on or near the heaters, first set the Heat Switch to the “OFF” position and allow the laminator to cool to room temperature. **Do not** operate the laminator without the heat guard in place. Before lifting or moving the laminator, set the Heat Switch to the “OFF” position and allow it to cool to room temperature.
- Removing the feed table exposes hot and moving parts. This means that you can be harmed if you remove the feed table. When running the machine without the feed table in position, use care to reduce the risk of injury to the operator.
- **Do not** operate this laminator without all detachable parts installed correctly. This means that there is risk of injury if this product is operated without all parts in their proper positions.
- Keep hands and clothing away from rollers. The rollers are pinch points that can trap body parts or clothing and cause serious injury. **Do not** wear any loose clothing, ties, jewelry, etc. which can be caught by rollers and draw any body part into the machine.
- Set the Drive Switch to the “OFF” position before walking away or leaving the laminator unattended. Use common sense; be cautious when operating your laminator. **Do not** operate the laminator when you are tired or your reactions are impaired in any way. **Do not** allow anyone to operate the laminator who has not received proper instruction and has not read the safety precautions. Keep children away.
- **Do not** use the laminator for other than its intended purpose.

Electrical Safeguards

- Never override or attempt to defeat electrical or mechanical safety interlock devices.
- The laminator has been manufactured with a plug on the machine designed to operate on a 115volt, 15 Ampere circuit.
- Disconnect the power supply before servicing your laminator. If you service the laminator yourself, call Technical Assistance (1-860-265-3222) for additional safety recommendations. Use only FuseFX parts for service or replacement. Failure to use FuseFX parts could void manufacturer's warranty. **Note:** *Always* turn the laminator "OFF" *and* unplug it from the power outlet before attempting any service.
- The laminator should only be operated from the type of power source indicated in this OWNERS MANUAL and on the serial label located on the rear panel of the unit.
- **Do not** leave the laminator power "ON" for extended periods while not in use. Unplug the machine at the end of the day as a precaution against a possible fire hazard.
- **Do not** operate the laminator with a damaged power supply cord or plug. **Do not** use an extension cord. **Do not** abuse the power supply cord; *never* pull cord to disconnect it from a power supply. **Do not** allow cord to contact heat, oil or sharp edges. **Do not** cut off or otherwise bypass the grounding prong on the plug.
- Replace fuses only with same type fuses. Contact DataBind for replacement fuses.

1. Laminator Introduction

Fuse FX Laminators are uniquely designed and engineered to be user friendly, reliable and virtually trouble free, and provide a quality lamination with a minimum level of user skill and machine control. FuseFX's modular construction makes them easy to maintain and repair. All equipment controls are basic in design and function, and positioned for easy access. This laminator has been designed expressly to use FuseEffects supplies. When used with these materials, you're able to encapsulate, mount, and mount and laminate. This machine has not been tested with any other materials and is not recommended for use with supplies other than FuseEffects. We thank you for selecting this machine and assure you of our continuing support!

1.1 First, Find a Work Area...

A sturdy work station is required to house your laminator. Picking an area that is well lit, clean and dust free will help ensure the highest quality output. Ample room is necessary to access the laminator from all four sides. If the laminator is back against a wall, the laminating film may back up and jam the machine. **WARNING: Do Not** place the laminator where the heaters will be in the direct path of a room cooling fan, air conditioner or similar forced draft.

Tools necessary to set up your laminator include cutting pliers and adhesive tape. For future maintenance and repairs, an assortment of metric Allen key wrenches, a slotted screw driver and a Phillips screw driver are necessary.

1.2 Unpacking Your Laminator...

Your laminator comes packed in one carton. It contains (1) laminator, (1) heat guard, (1) top supply mandrel, (1) bottom supply mandrel, (1) threading board, (1) feed table with guide, (1) roller lift handle, and this Owners Manual.

Upon receipt of your laminator, inspect the carton, the machine and all other contents of the carton for shipping damage. Damage should be brought to the immediate attention of the delivering carrier and DataBind Customer Service.

Using a minimum of two people, carefully lift the laminator from the carton by grasping the ends of the machine and lifting. **Do Not** lift the laminator by the *Upper Idler Roller* or *Supply Mandrels*. These *are not* weight bearing parts and lifting the laminator by these parts can cause damage to the machine and possible personal injury.

For shipping purposes, white plastic tie straps are used to hold the power cord and accessories in place. These straps need to be *carefully* cut and removed prior to set up. Use care to ensure that you do not damage any machine wiring while cutting straps.

2. Machine Controls

2.1 Motor Control

Motor control is located on the left side of the machine as viewed from the front.

Motor Drive Switch: located at the bottom of the Left Control Panel. It makes the rollers run in either a “forward” or “reverse” direction. Press “Up” on the switch to engage “forward” or press “Down” to engage “reverse.” The middle position is the roller “Off” setting.

2.3 Heat Control

Heat control is located on the left side of the machine as viewed from the front.

Heat Switch: located on the top of the Left Control Panel. It is the main power control for the heating system and is set to “On” whenever encapsulating or thermally activated foam board products are used. When using “cold” or pressure sensitive foam products, the switch is set to “Off.”

Temperature Adjustment Knob: located at the bottom of the Left Side Control Panel. It allows the machine to be set from 180 to 300 degrees Fahrenheit.

Thermometer: located at the top of the Left Side Control Panel.

2.4 Tension Controls

Film Tension Knobs: located on the right end of the machine at the end of each supply mandrel. Film tension can be tightened or loosened as necessary for smooth lamination with your individual rolls of laminate. In general, only tighten the tension enough for smooth lamination. Excessively high tension can cause laminating problems and increase wear on the machine. It is normal to need higher tension on a new roll of laminating film and lower tension as the size of the roll decreases with use

3. Basics of Operating Your Laminator: Encapsulating

3.1 Encapsulating

Your new laminator arrives ready-to-run. For basic encapsulating, the machine needs to be loaded with laminating film and have the Feed Table and Heat Guard installed. If the machine is not loaded with laminating film already, do so as detailed in the section titled “3.2 Loading Film for Encapsulating.” For operating instructions utilizing foam boards, see the section titled “3.6 Foam Boards.”

Plug the laminator into an appropriate power supply and set the Heat Switch to the “ON” position. Next, set the temperature according to the film manufacturer’s recommendations for the film you have chosen, and allow the machine to heat for approximately 15 minutes. Temperature adjustment is detailed in the section titled “3.4 Heat Settings for Encapsulating”.

After 15 minutes of heating time, set the Motor Drive Switch to the “FORWARD” position and allow the rubber rollers to rotate $\frac{1}{2}$ turn. Set the Motor Drive Switch to the “OFF” position and allow the machine to heat an additional 15 minutes before use. Check the heat setting and adjust as necessary.

Set the Motor Drive Switch to the “FORWARD” position and perform a test lamination to ensure proper settings for successful lamination. Watch film as it exits the rollers so it doesn’t wrap around the rollers. It may be helpful to hold the exiting film at first when starting a lamination run. If any adjustments are necessary, make them now and run another test. See adjustment details in the section titled “3.5 Film Tension for Encapsulating.” Repeat this step until you obtain desired results.

When laminating, run a small amount of film before feeding the print into the laminator to avoid a “dwell line” across the leading edge of your print. Feed the print slowly *and* evenly. Smoothing the print or keeping gentle “back pressure” on it as the rollers pull it through will help to ensure a professional, wrinkle free finish. You may laminate subsequent prints now, leaving appropriate space between each print for trimming.

When your last print has cleared the pull rollers and completely exited the laminator, set the Motor Drive Switch to the “OFF” position.

When you have finished laminating, set the Heat Switch and the Motor Drive Switch to the “OFF” position, rotate the roller lift handle to “open” the rollers, and unplug the machine at the end of the day.

3.2 Loading Film for Encapsulating

3.2.1 Non-Color-Coded laminating film:

Select the two rolls of laminating film that you wish to use. Both rolls of film should be of the same size, type and thickness. **Note:** Always operate the laminator with two rolls of laminating film of the same *width* to avoid excessive adhesive transfer to the Rubber Rollers. Next, take the Bottom Supply Mandrel (labeled “Low”) and insert it into the roll of film until the “gripper dog” meets the film’s cardboard core. Rotate the mandrel in the opposite direction from which the “gripper dog” points. As you rotate, apply pressure to force the mandrel into the roll of film and proceed to center it on the Supply Mandrel.

Place the loaded Bottom Supply Mandrel on the laminator; insert the right side first and then lower the left side into the roll bracket.

Take the Top Supply Mandrel (labeled “Top”), insert it into the roll of laminating film as above, and place it in the top position in the same manner as was done with the lower. **Note:** See the Threading Diagram Label on the bottom of the Feed Table for reference.

3.2.2 Color-coded laminating film:

Select the two rolls of laminating film that you wish to use. Both rolls of film should be of the same size, type and thickness. **Note:** Always operate the laminator with two rolls of laminating film of the same *width* to avoid excessive adhesive transfer to the Rubber Rollers. Next, take the Bottom Supply Mandrel (marked with the **blue** Color-Code) and insert it into the roll of film so the **blue** end of the mandrel matches the **blue** end of the film roll. While inserting the Supply Mandrel, rotate it in the opposite direction from which the “gripper dog” points while pressing it into the roll of film and center on the mandrel. Place the loaded Supply Mandrel on the machine by matching the blue end with the Blue Friction Stud and then lower the left side into the roll bracket.

To load the top, do the same as with the lower, only match the **red** ends.

CAUTION: Do not apply excessive force to the ends of the Supply Mandrel (i.e. with a hammer, etc.). Excessive force will damage the mandrel.

Notes:

- When loading your laminating film, check for film *splices*. These rolls will be clearly marked. Splices are not common, but are unavoidable. If you find a spliced roll, place it in the “top” position on the laminator so that the splice can be monitored carefully. When the splice is ready to come through the laminator, set the Motor Drive Switch and the Heat Switch to the “OFF” position and allow the machine to cool. Then rotate the roll of film by hand so that the film is very slack. Set the Motor Drive Switch to the “FORWARD” position again and allow the splice to run through. If necessary, keep turning the roll of film by hand to keep it slack until the splice has passed through.
- When loading film on the laminator, be sure the heat is turned “OFF” and the machine is cool to avoid chance of burns.
- Film rolls must be centered on the Supply Mandrels. If the rolls are not aligned, hot adhesive will be deposited on the Rubber Rollers necessitating a cleaning operation.
- 1” core laminating film is rolled adhesive side “in” (poly-in”). When loading film on the Supply Mandrels, be sure that the roll is positioned correctly to unroll as shown in the Threading Diagram on the back of the Feed Table. If the roll is loaded in reverse, the film could adhere to the laminator when heated, necessitating a cleaning operation.

3.3 Threading Film for Encapsulating

Thread the top film under the Upper Idler Roller. Pull the film down so that the film’s leading edge is just below the Lower Front Laminating Roller. Next, thread the bottom film around the Lower Idler Roller. Pull it upward until it is even with the top of the Top Front Laminating Roller (the film will overlap). Tape the lower film’s edge to the upper film. This creates a film “Web.” Refer to the Threading Diagram on the back of the Feed Table for additional details.

Loosen the tension on both rolls of laminating film by turning the Tension Adjustment Knobs counter-clockwise; when threading the laminating film, it is best to have no drag at all. Turn the Speed Control Knob to a slow speed setting. Set the Motor Drive Switch to the “FORWARD” position and using the Threading Board, push the film Web into the Laminating Rollers. This

process will push the Web into the Pull Rollers and then exit the machine. Ensure that the Threading Board and laminating film exit between the rear Pull Rollers.

Remove the Threading Board and save it for your next use. Your laminator is now loaded and ready to be heated.

Note: If the Threading Board becomes lost or damaged, you can make your own with a piece of poster board. Cut the poster board 10" wide by 30" long.

3.4 Heat Settings for Encapsulating

For Basic encapsulating, set the Heat Switch to the "ON" position. The Red Indicator Light will illuminate and remain lit while the Heat Switch is in the "ON" position. To reset the temperature, rotate the Heat Control Knob. The Heat Indicator Lamp will be illuminated while the machine is heating and will turn off when the set temperature is reached.

Notes:

- When setting the heat to a temperature below 200°F, first rotate the Heat Control Knob fully clockwise and then proceed to the desired temperature setting.

3.5 Film Tension for Encapsulating

To adjust the film tension on the Top and Bottom Supply Mandrels, the laminator must be loaded *and* heated. Remove the Heat Guard and Feed Table and then loosen the tension on both rolls of laminating film by turning the Tension Adjustment Knobs counter-clockwise until there is no drag on either the Top or Bottom Supply Mandrels. Set the Motor Drive Switch to the "FORWARD" position. As the film runs through the laminator with no tension it will appear wrinkled and bubbly. Gradually increase the tension on both the Top and Bottom Supply Mandrels by turning the knobs clockwise until the film is smooth on the Heated Laminating Rollers and no longer appears wrinkled and bubbly.

Notes:

- For best results, reset the film tension with EACH new set of film rolls
- As the film supply becomes low and the roll diameter decreases, it is necessary to *decrease* the tension on the film rolls.
- Too little tension on the Top or Bottom Supply Mandrels causes vertical or diagonal streaks in the film as it passes over the Heated Laminating Rollers.
- Excessive tension will lead to *increased* wear on the laminator and will cause exiting laminating film to curl excessively.

4. Basics of Operating Your Laminator: Foam Boards

Your new laminator has the capability to run many different types of foam board products that allows you to professionally and easily mount with pressure sensitive products or thermally mount and laminate in one step. For mounting, remove both rolls of laminating film and the film web and install the Feed Table and Heat Guard.

4.1 Mounting using a Pressure Sensitive Mounting Board

Before starting, refer to the instruction sheet packed with each box of Mounting Boards for specific instructions on mounting and laminating.

1. Plug the laminator into an appropriate power supply. **Do not** turn the heat on. If the machine is hot from previous use with thermal products, allow it to completely cool to room temperature before proceeding.
2. Set the rollers to the “open” position.
3. Starting at the top of the mounting board, peel back 2” of the liner paper. **Do not** remove the entire liner paper.
4. Line up the top edge of the substrate to be mounted with the top of the mounting board and gently set down on the board. **Do not** press the substrate down firmly until you are certain that it is aligned correctly for your needs; the repositionable adhesive will allow for slight adjustments to the substrate if it is not firmly pressed into place.
5. Set the Motor Drive Switch to the “FORWARD” position.
6. Slowly insert the top edge of the mounting board into the nip roller opening and continue to slowly peel back the release liner with one hand, while lifting the substrate away from the mount board with the other. A gentle push may be required to start the board into the machine. **Do not** allow the substrate to contact the mounting board until it contacts the rubber rollers; the rubber rollers will advance the board and the substrate will adhere to the board and automatically exit at the rear.
7. When your last mounting board has cleared the pull rollers and completely exited the laminator, set the Motor Drive Switch to the “OFF” position, rotate the roller lift handle to “open” the rollers, and unplug the machine at the end of the day.

4.2 Mounting using a Thermal Mounting Board

Before starting, refer to the instruction sheet packed with each box of Mounting Boards for specific instructions on mounting.

1. Plug the laminator into an appropriate power supply and set the heat as detailed in the section titled “Heat Settings for Thermal Products.”
2. Set the rollers to the “open” position.
3. Place the image to be mounted on the adhesive-coated side of the mounting board; the adhesive side is the “dull” side of the board.
4. Cover your print with the “Cover Sheet;” a cover sheet is included with each box of Mounting Boards. **Note:** be certain that the board is completely covered by the cover sheet; any exposed adhesive on the mounting board will be deposited on the rubber rollers requiring cleaning. The “glossy” side of the cover sheet contacts the mounting board and your print.
5. Set the Motor Drive Switch to the “FORWARD” position.

6. Insert the board into the roller nip opening. Ensure the board will enter centered and straight. A gentle push may be required to start the board into the machine. Hold the edges of the board until it is engaged in the rollers and the laminator begins pulling it on its own.
7. The board will feed through the laminator and automatically exit at the rear of the unit. **CAUTION!** *The board will be hot!* Allow it to lie flat while cooling.
8. When your final mounting board has cleared the pull rollers and completely exited the laminator, set the Motor Drive Switch to the “OFF” position. When you have finished mounting, set the Heat Switch and the Motor Drive Switch to the “OFF” position, rotate the roller lift handle to “open” the rollers, and unplug the machine at the end of the day.

4.3 Heat Settings for Thermal Products

Set the Heat Switch to the “ON” position. The Red Indicator Light will illuminate and remain lit while the Heat Switch is in the “ON” position. The recommended processing temperature for foam board products is 300° F. To reset the temperature, rotate the Heat Control Knob and the new temperature will be set. The Heat Indicator Lamp will be illuminated while the machine is heating and will turn off when the set temperature is reached.

Allow approximately 20 minutes of heating time, while the machine is heating set the Motor Drive Switch to the “FORWARD” position and allow the rubber rollers to rotate to help ensure even heat distribution.

4.4 Heat Settings for Pressure Sensitive Products

We do not recommend using any heat with Pressure Sensitive Products.

5. Cleaning the Machine

If you service the laminator yourself, call DataBind Technical Assistance (860-265-3222) for additional service and safety recommendations.

5.1 Cleaning the Rubber Rollers

With continuous use, the Rubber Rollers may accumulate adhesive and dirt. If indentations or bumps begin to appear on the surface of the finished lamination, or the Rubber Rollers have “shiny” spots on them (especially on the ends), cleaning is necessary. Use a dry Scotch Brite® scrubbing pad to cut through adhesive deposits. Toggle the Motor Drive Switch between the “FORWARD” and “OFF” positions to advance the rollers and clean all areas. Proceed to wipe the rollers clean using the sponge pad moistened with recommended cleaning fluid.

Notes:

- Be certain that the laminator has cooled down to room temperature when cleaning the Rubber Rollers to avoid the chance of burns.
- Use cleaning fluid sparingly; **Do Not** allow it to “run” onto wiring or into the “ends” of the laminator.
- **Do Not** use knives, scissors, any sharp metallic objects or steel wool to clean the Rubber Rollers. Use of such objects will damage the rubber surfaces and require replacement of the rollers. Damage of this nature is not covered under the Manufacturer’s Warranty.

5.2 Cleaning the Heat Shoes

With continuous use, the heat shoes may accumulate adhesive and dirt. It is recommended that you periodically inspect them for adhesive build-up. Use a dry Scotch Brite® scrubbing pad to cut through adhesive deposits. Proceed to wipe the heat shoes clean using the sponge pad moistened with recommended cleaning fluid.

Notes:

- Be certain that the laminator has cooled down to room temperature when cleaning the Heat Shoes to avoid the chance of burns.
- Use cleaning fluid sparingly; **Do Not** allow it to “run” onto wiring or into the “ends” of the laminator.
- *CAUTION: Teflon coated heat shoes are scratchable.*

Do Not use knives, scissors, any sharp metallic objects or steel wool to clean the heat shoes. Use of such objects will damage the surfaces and require replacement of the shoes. Damage of this nature is not covered under the Manufacturer’s Warranty.

For additional maintenance and service procedures call DataBind Technical Assistance (860-265-3222)

6. General Operating Tips

- Read the instruction manual before operating your laminator.
- This laminator has been designed expressly to use FuseEffects supplies. This machine has not been tested with any other materials and is not recommended for use with supplies other than FuseEffects.
- Always run test samples before laminating valuable items.
- Feed the print through slowly *and* evenly, smoothing it or using gentle “back pressure” as it is pulled into the laminator.
- If encapsulating, operate the laminator with two rolls of the same width laminating film to avoid excessive adhesive transfer to the rollers.
- If laminator is not in current use, turn the machine "OFF."
- Never feed abrasive materials or metal objects such as staples or paper clips through the laminator. Keep sharp objects like scissors and rulers away from the rollers always.
- Once an item has been fed between the Rubber Rollers, do not attempt to alter its position as this can damage the print.
- Do not stop the laminator before the item has completely exited from the rear to avoid a “dwell line” across the print.
- Do not service the laminator before disconnecting the power supply.

7. Troubleshooting



7.1 Encapsulating

1. Laminating film is not bonding to substrate or to itself at sealed edges:
 - a. Heat is set too low.
 - b. Film tension is too tight.
 - c. Bottom roll of laminating film is threaded incorrectly.
2. Wrinkles or irregular waves running across the laminated web (perpendicular to the edge):
 - a. Heat is set too high.
 - b. Film tension is too loose (large, irregular waves).
 - c. Film tension is too tight (small, fine wrinkles – “orange peel” effect).
3. Stretch lines running with the web (parallel to the edge):
 - a. Film tension is too tight.
 - b. Heat is set too high.
 - c. Substrate is too thick to seal fully.
4. Blisters on surface of substrate or along edge of substrate:
 - a. Heat is set too high.
 - b. Excessive moisture in the substrate being laminated.
 - c. Inks are not fully dry.
 - d. Rubber Rollers are not clean or are damaged.
5. Curling of the finished lamination:
 - a. Unbalanced tension on the supply mandrels; too much tension on the top supply mandrel will cause the film to curl upward, or too much tension on the bottom supply mandrel will cause the film to curl downward.
 - b. Bottom roll of laminating film is threaded incorrectly.
6. Wrinkling around edge of laminated substrate:
 - a. Substrate to be laminated is too thick; try a laminating film with a thicker adhesive layer to compensate for the added thickness or flush cut the substrate.

7.2 Mounting

1. Print is not bonding to foam board:
 - a. Heat is set too low.
 - b. Print was not placed on the adhesive side of the mounting board.

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