



## Air Cushion Machine

### LA-E4C User Manual Rev00



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## 1. Abstract

Thank you for using *Locked Air™* Air Cushion Machine.

To ensure that you use the appliance correctly, it is important that you read this instruction manual thoroughly before operation!

Tips: The operation of different models of machines may vary slightly, please pay attention to the prompts in the main body of the manual.

Only those who have read and understood the chapters such as "Safety", "Introduction" and "Operation" can operate this machine.

Operator responsibilities include:

- Operate machine
- Carry out regular maintenance (see Section 7)

NOTE: Only service technicians employed by *Locked Air™* or a *Locked Air™* dealer are allowed to service this machine.

## 2. Safety

### 2.1. Safety Information

The power supply used by the machine must be consistent with the parameters on the machine nameplate. Misconnection is strictly forbidden. To prevent damage to the machine, please only use the power cord provided with the product.


- Ensure the power supply is earthed
- Do not disable or remove safety devices
- Do not remove or cover Warning markings
- Keep work area clean and accessible
- Before moving the machine, unplug power cord and gather loose wires
- Beware of hurting hands when using knives or scissors
- No damage to cables
- Work areas should be well lit
- Work area is well ventilated


Safety specification design: The design complies with CE safety specification requirements. All dangerous parts are out of reach.

### 2.2. Warning

Do not touch any moving parts when operating the machine.

Pay attention to the following during the operation of the machine and within 5 minutes after it stops:

 **Lightning Tip:** Warn that some machine parts inside the equipment are not electrically insulated. Caution! Risk of electric shock!

 **Heating Warning:** Warn that machine parts may become hot.

Press the emergency stop and unplug the power supply if you encounter any of the following situations:


- Foreign matter at the input channel
- Abnormal sounds are produced inside the machine
- Heating abnormal, the machine shell temperature is too high
- Other abnormal situations

### 2.3. Improper Use

The following applications or operations are inappropriate for the machine and are considered improper use:

- Reference to other documents not provided by *Locked Air™*
- Used outdoors or in wet environments
- Used in areas where explosion accidents may occur
- Using excess water to wash or clean the machine
- Stand on the machine
- Place objects on or on top of the machine
- Move the machine while it is running or still connected to AC power

### 2.4. Storage

- Never place or store the machine in a damp or watery environments
- Before using the machine again after long-term storage, it must be inspected by a trained service technician.
- The machine should be stored at a temperature ranging from -25 to 55°C (-13 to 131°F) and a relative humidity of 10% to 90%RH.
-  When moving the machine from a cold to a warm area, condensation can occur both inside and outside, potentially harming the machine and operator if power is switched on right away. Let the machine acclimatize to room temp and wait for condensation to dissipate before powering on.

### 2.5. Transportation

- The machine should not experience severe vibration or impact during transportation.
- The machine must not be exposed to the sun or rain, and should be stored within the required temperature and humidity range.

## 3. Disclaimer

The manufacturer and its authorized distributors are not liable for any accidents or damages resulting from violation of the warnings or instructions in this machine's description or manual, including:

- Improper use or maintenance
- Use in applications or under conditions other than those specified in this manual.
- Use of unauthorized parts
- Use material not produced by *Locked Air™*
- Repairs or modifications without the manufacturer's permission
- Unauthorized modifications to the machine, such as:
  - a. Change the control system
  - b. Welding, mechanical processing, etc.
  - c. Extend the machine or control system

The manufacturer and its authorized distributors are not liable for:

- Consequential damage caused by machine errors or malfunction (such as product damage, business interruption, delays, etc.).

## 4. Technical specifications

No.	Name	Parameters
1	Rated Voltage	Please refer to the nameplate
2	Rated Power	350 W
3	Dimensions	300 mm x 360 mm x 345mm
4	Net Weight	8.8 kg
5	Working Environment Temperature	0 to 40°C (32 to 104°F)
6	Working Environment Humidity	20 to 90% RH

## 5. Operation

### 5.1. Usage

#### 5.1.1. Power on


Step1: Connect the power plug to a single-phase three-wire socket with grounding protection.

Step2: Turn on the power switch.

#### 5.1.2. Feeding

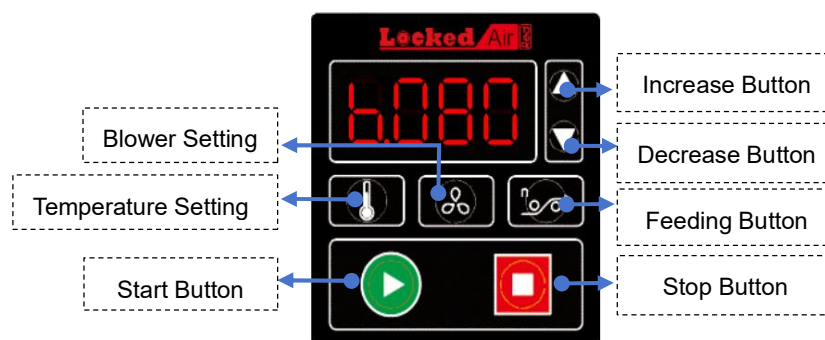
**Step1:** Put the film roll on the roller with the inflation end inward.



**Step2:** Guide the film through the threading bar's center, attach the inflation end to the air tube, then pull it to the inlet port.

**Step3:** Short press the Trans-film Button  to feed, and pull the film onto the conveyor until the film is at the outlet port, indicating successful loading.





### 5.2. Working



**Preheating status:** Press the start button , the heating wire will heat up, and the fourth symbol  will flicker.

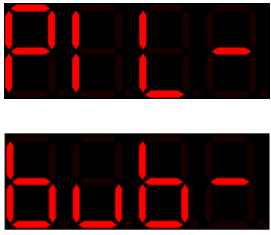


**Working Status:** When the machine start to work, the fourth symbol  will continuously rotate in a circular motion.



**Stop Status:** Press the stop button  to stop, and the heating wire will coll down.

 Please ensure the correct film type are selected before operation.



### 5.2.1. Select Film Type

	<p>After powering on the machine, select the film type according to the specific film being used.          PIL: Pillow BUB: Bubble          Press and hold ▲ or ▼ for 1s to switch film type.          Press the start button , the heating wire will heat up, and the fourth symbol will flicker.</p>
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
### 5.2.2. Temperature Setting

	<p>Press temperature button  to enter temperature setting interface.          Press ▲ or ▼ to change temperature.          Press and hold ▲ or ▼ to continuously raise or lower temperature.</p>
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### 5.2.3. Blower Setting

	<p>Press the blower button  to enter blower setting interface.          Press ▲ or ▼ to change air volume.          Press and hold ▲ or ▼ to continuously increase or decrease air volume.</p>
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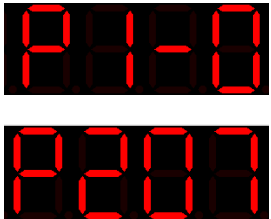



### 5.2.4. Speed Setting

	<p>Press the temperature button  and the decrease button ▼ together to enter speed setting interface.          Press ▲ or ▼ to change speed.          Press and hold ▲ or ▼ to continuously increase or decrease speed.</p>
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### 5.2.5. Countdown Mode

	<p>Press and hold the stop button  for 1s to switch to the countdown mode.          Press ▲ or ▼ to edit countdown time.          Press and hold the stop button  for 1s to exit the countdown mode.</p>
	<p>Press the start button  to start heating, and the first symbol  will flicker.          Once the machine starts, the flickering symbol stops and the countdown starts.          Press the stop button  to stop, and the countdown timer will be reset.</p>

### 5.2.6. Engineering Menu

	<p>Press the temperature button  to enter temperature setting interface.          Then press and hold the temperature button  for 1s to enter engineering menu.</p>
	<p>In the engineering menu, press the blower button  (P2 then P1) or  (P1 then P2) to switch option.</p> <ul style="list-style-type: none"> <li>• P1 is temperature compensated switch.              0-OFF, 1-ON, the default setting is 0. Press ▲ or ▼ to switch.              When the machine needs to operate for extended periods, it is recommended to turn on the temperature compensation function.</li> <li>• P2 is motor stop time.              Press ▲ or ▼ to edit, the default value is 7 (Only modify without guidance)</li> </ul>
	<ul style="list-style-type: none"> <li>• P3 is the display temperature correction for Group 1.</li> <li>• P4 is the display temperature correction for Group 2.</li> </ul> <p>The correction value ranges from 0 to 99, with a default value of 50.          It can be modified by pressing the up or down button.          Real Temperature = Displayed Temperature + Correction value - 50</p>

## 6. Fault analysis and diagnosis

### 6.1. Common Faults and Troubleshooting

No.	Malfunction	Analysis	Resolution
1	Seal Leakage	Heating temperature is too low	Raise the temperature
2	Seal is thin and easy to tear	Heating temperature is too high	Lower the temperature
3	The air volume is low	Air volume is too low	Increase the air volume
4	Film break and have burrs	The blade is worn out	Replace the blade

### 6.2. Error Code Diagnostics

No.	Error Code	Fault Cause
1	F01-04	Blower abnormal
2	o02	Power supply abnormal
3	H01、H02、H04、H05	Heating abnormal
4	H03、H07	Temperature sensor is disconnected or abnormal
5	H06	Heating wire short circuit
6	H08	Heating control module is broken
7	H09	Heating wire open circuit
8	H10	Heating wire current decrease

Please contact authorized dealer if the above fault code occurs.

## 7. Maintenance

### 7.1. Preventative Maintenance

Warning! The machine must be switched off and the power supply must be disconnected during the maintenance work.

- Please be aware of the sharp corner, and take care not to hurt yourself.
- Please do not operate the machine with the safety device removed.

Periodicity	Items	Details
Monthly	Checking items	<ul style="list-style-type: none"> <li>· Working status of the motion mechanism.</li> <li>· Whether the warning labels are clear and legible.</li> <li>· Wear and tear of parts.</li> <li>· Whether there are any consumables left.</li> </ul>
Annually	Professional maintenance	Maintained by a certified service technician at least once a year.

### 7.2. Repair and Replace Parts

All maintenance work must be carried out by a certified service technician.

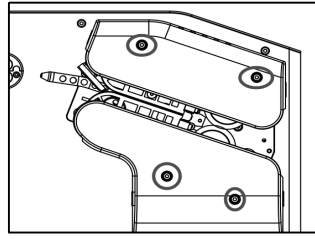
- Only the *Locked Air™* Part is permitted to replace the machine parts.
- The *Locked Air™* Part can be ordered from the distributor.
- Please adhere to the instructions above to prevent any damage to the machine.

The manufacturer or distributor disclaim all responsibility if the instructions are not followed.

## 8. Appendix

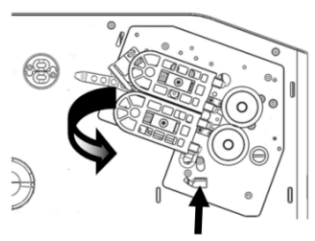
### 8.1. Replace the belt

#### 8.1.1. Remove the upper and lower cover



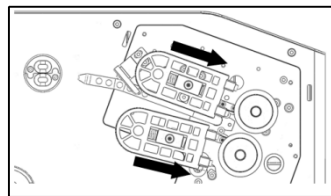
Loosen the 4 screws on the upper and lower covers using a 3mm Allen key, then remove the covers.

#### 8.1.2. Lift the wheel

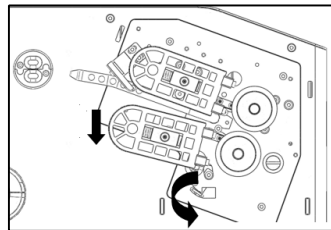


Turn the lower heating module counterclockwise to the limited position and turn the pull ring clockwise to separate the two silicone wheels.

#### 8.1.3. Replace the belt



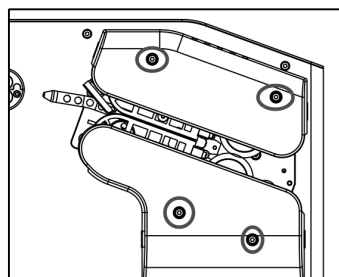
a. Follow the arrow direction to push the upper heating wire mounting plate to the right, remove the heating belts from the right side, remove another heating belt in the same way.



b. Load the new heating belt from the left and press to the heating belt block to install the heating belt. Install another one in the same way.

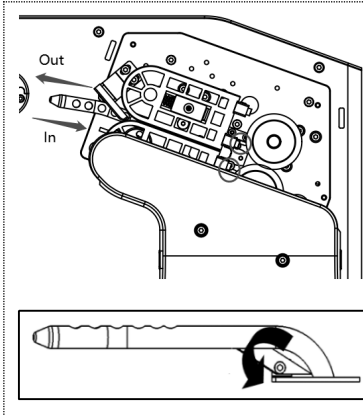
Push the lower heating module in the direction of the arrow to loosen the pull ring, pull the pull ring to reset the lower heating module. If it fails to reset after releasing, push the lower heating module again, and slightly rotate the upper wheel to loosen it and then reset it.

#### 8.1.4. Install the upper and lower cover



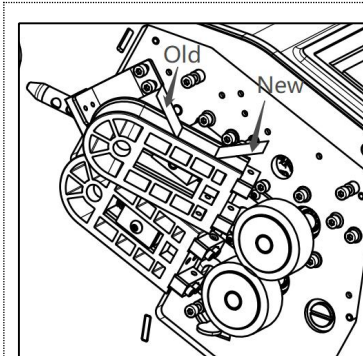
Use a 3mm Allen wrench to install the upper and lower cover with the 4 screws.

## 8.2. Replace the Blade



- a. Loosen but don't unscrew the air tube fixing screws, then hold the end of the nozzle to pull it out in the direction of the arrow.
- b. Remove the blade screw, replace the new blade (the blade is facing outwards), and tight the blade with the screw. (Caution: Not to be cut by the blade).
- c. Push the air tube to the right in the direction of the arrow until the air tube cannot move, then fix the it with screw.

## 8.3. Replace Thermally Resistant Tape



- a. When removing the heating module, be careful not to lose the small spring.
- b. When peeling off the existing high-temperature adhesive tape, do not remove it all at once. Instead, peel off a section of the old tape and immediately apply a new section to complete the replacement.

## 9. Customer Service

### 9.1. Customer Notice

Locked Air™ Air Cushion Machines are manufactured by Hangzhou Bing Jia Tech Co., Ltd., and are fully tested before dispatch.

If you experience any problems during use, please contact us using one of the following methods:

1. Contact with Locked Air distributor.
2. Send email to customer service: [info@lockedair.com](mailto:info@lockedair.com)

### 9.2. Technical Support

If you have any problems with your machine, please confirm the following information:

1. Customers information: Company Name, Contact Number.
2. Serial Number: "BJTLA-E4C\_\_\_\_\_". The number is shown on the nameplate.
3. Detailed description of problems encountered.

