

Installation/Operation/Maintenance Manual

Portable Lamination Machine



Shenzhen Youmijia Automatic Equipment Co.Ltd

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27th, May, 2017

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Statement

Thank you for purchasing YMJ lamination machine. This User Manual attached with the equipment for better understanding on machine structure, Installation, Operation, and maintenance. Before using this machine, please read manual or watch demo video carefully, so that you can correctly use it in a better manner.

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Chapter 1 Product Info

1.1 Outline

Yomijia exclusively designs and manufactures the portable lamination machine by employing pneumatic principles and analyzing each original Smartphone structure. For years, YMJ has developed many different types of LCD broken glass refurbish machines and parts covering the whole refurbish process.

Welcome to visit our factory in Shenzhen, and you can bring some LCD screens for testing. Free training will be offered till you master all the skills of screen refurbish.

1.2 Features & Benefits

- Suitable for all phone models, whether the screen is flat like iPhone7 or edge like Samsung S8 edge.
- Use aluminum mold to position accurately.
- Hard black rubber is used to laminate OCA, and soft red rubber is used to laminate Lcd.
- Vacuum pump creates the vacuum dust-free room, and air compressor will offer the laminating force.
- All we have done is to keep the lamination process precise, foamless, and automatic.
- Intelligent English operating system.
- When lamination, you can choose to use glass with frame or without frame accordingly.

1.3 Technical Data

- National Patent Number: ZL 2014 2 0026733.8
- Material: Aluminium alloy& Stainless steel
- Air pressure input: 0.45~6MPa
- Control voltage: DC 24V
- Environment temp: -3℃~40℃
- Equipment size: 290*450*490mm
- Weight: 38kg
- Voltage: AC 220V
- Power: 1000W

Chapter 2 Installation

- ① Add vacuum pump oil into vacuum pump, 1/2~4/5 oil is enough.



- ② Connect vacuum pump to lamination machine



- ③ Connect air compressor to lamination machine



Chapter 3 Lamination Steps and Parameters

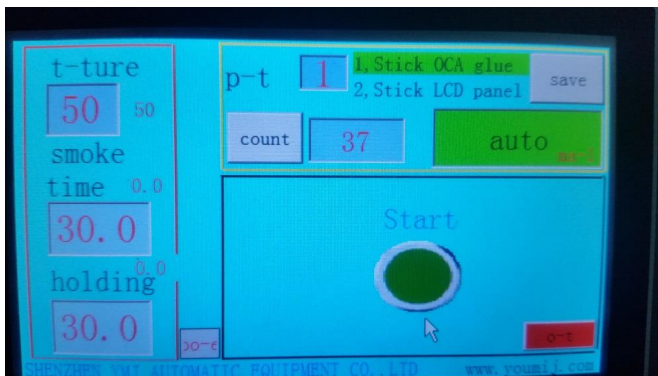
3.1 Flat/Straight Screen Lamination

Laminate Glass with OCA (use the black rubber)

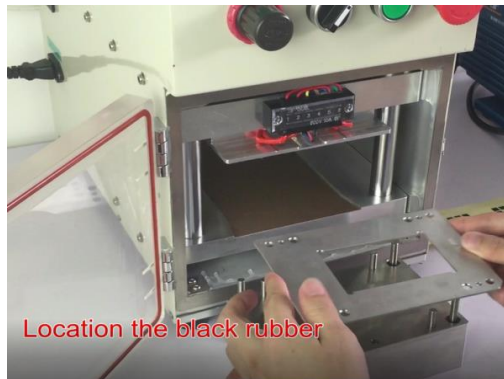
① Set Parameters

Enter English System → Choose auto → Choose p-t "1" 1, Stick OCA glue → Set Temperature, 50°C → Set smoke time, 30s → Set holding time, 30s →

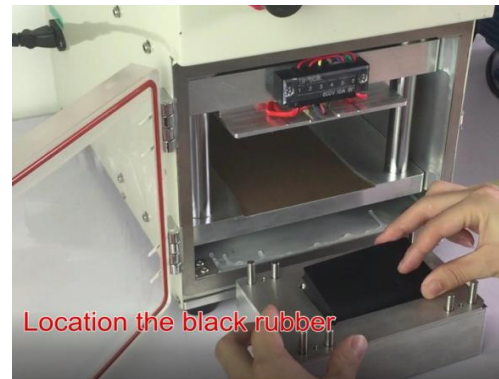
Set pressure regulating valve, 0.4MPa



② Mold preparation



1. Place the rubber location mold piece on the base mold.



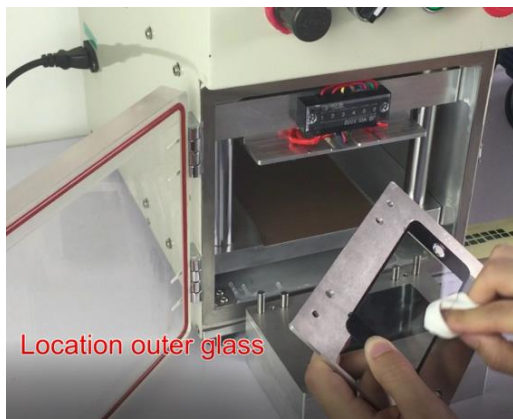
2. Place the black rubber. Bright side is put upward.



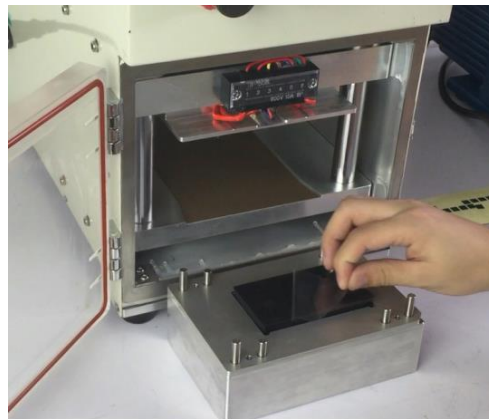
3. Use the oca mold piece to locate oca.



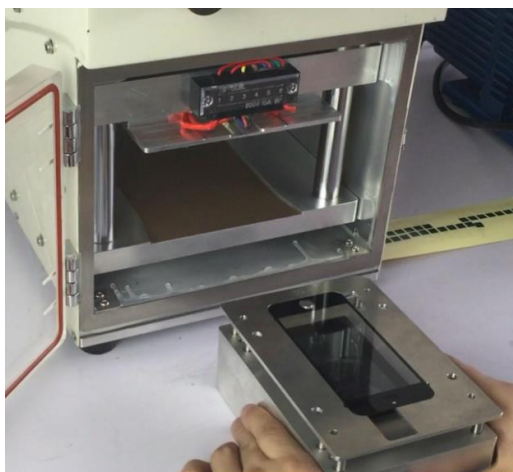
4. Locate oca and compress it on the rubber.



5. Use the glass mold to locate glass and clean it.



6. Tear off the protective film of oca.



7. Put the mold into the machine.

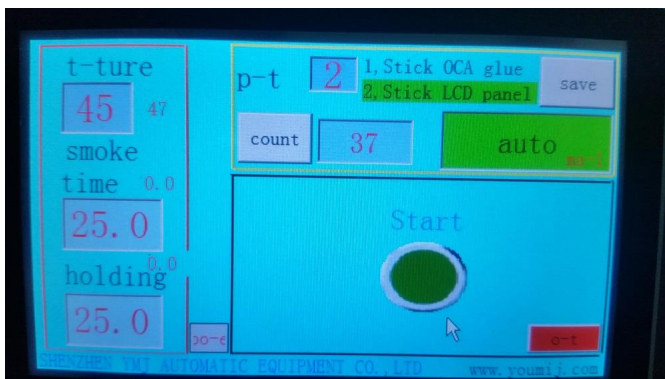


8. Press on the door and then start.

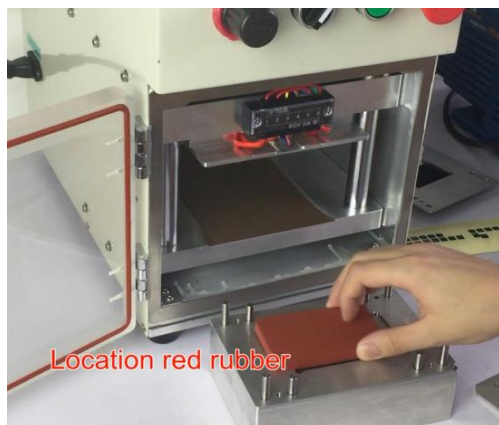
Laminate Glass OCA with LCD (Use the Red Rubber)

① Set Parameters

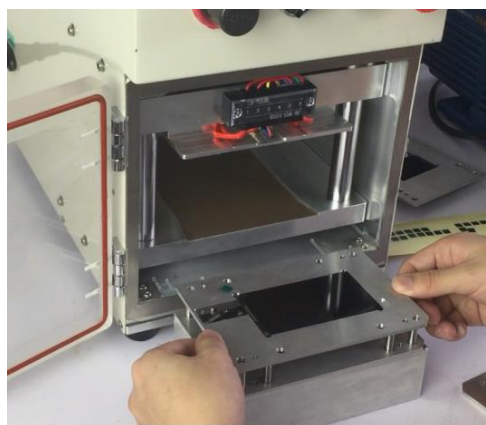
In "auto" condition → Choose p-t "2" 2, Stick LCD panel → Set temperature, 45°C → Set smoke time, 25s → Set holding time, 25s → Return the pressure regulating valve to zero, than regulate it to 0.2MPa.



② Mold preparation



1. Use the rubber mold piece locate red rubber



2. Use Lcd mold piece to locate Lcd.



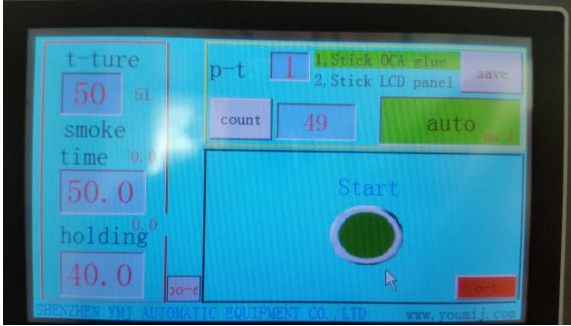
3. Direction downwards to place glass with oca.



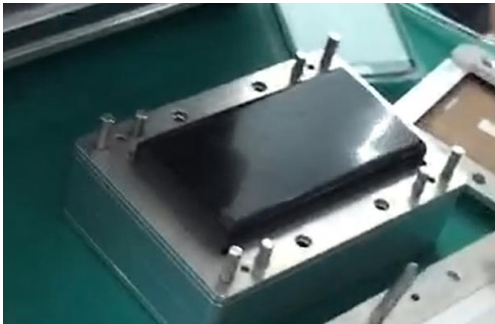
4. Press on the door and then start.

3.1 Edge/Curved Screen Lamination Laminate Glass with OCA (Samsung S7 Edge)

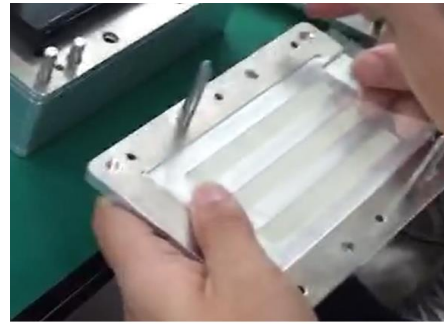
① **Set Parameters** Enter English System → Choose auto → Choose p-t "1" 1, Stick OCA glue
Set Temperature, 50°C → Set smoke time, 50s → Set holding time, 40s → Set pressure
regulating valve, 0.5MPa



② Mold preparation



1. Use the mold piece to locate black rubber.



2. Oca mold to locate oca and press it.



3. Press it tight and don't the oca again.



4. Locate glass and press the rubber bar.



5. Tear protective film and place the glass mold top.

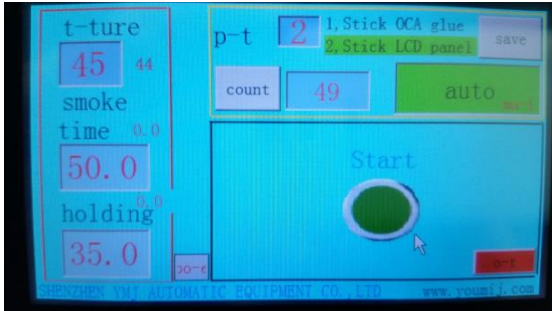


6. Press on the door and then start.

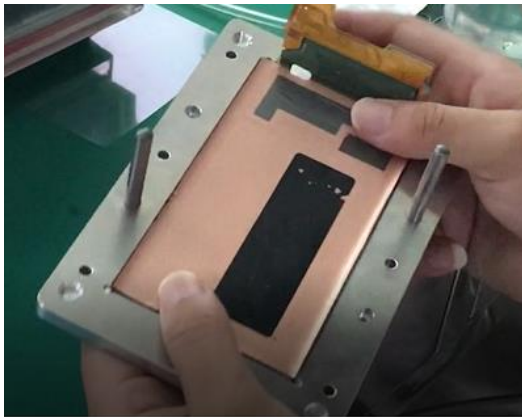
Laminate Glass OCA with LCD (Use the Black Rubber)

① Set Parameters

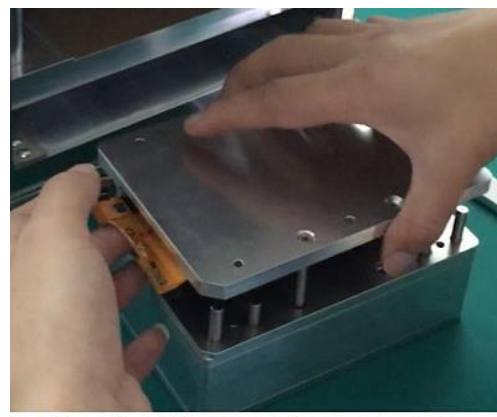
In "auto" condition → Choose p-t "2" 2, Stick LCD panel → Set temperature, 45°C → Set smoke time, 50s → Set holding time, 35s → Return the pressure regulating valve to zero, than regulate it to 0.25MPa.



② Mold preparation



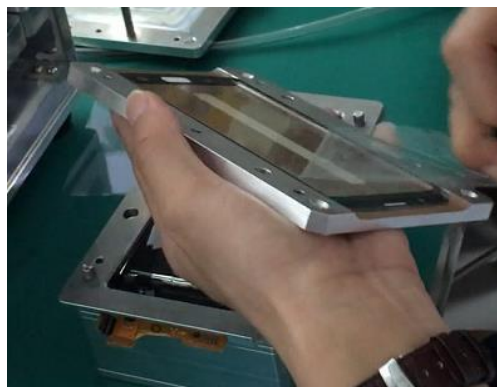
1. Use the Lcd Mold to Locate Lcd.



2. Place it on black rubber and press.



3. Clean the Lcd in one direction.



4. Tear the oca protective film off and place it.

Chapter 4 Bubble Causes and Treatments

4.1 iPhone Series

1) iPhone 5G/5S/5C/6/6Plus

- ① Clean up the hard conductive silver adhesives on the corner and flex cable,
- ② Check the frame flaw if laminating glass with frame,
- ③ Check if there exists deviation of molds position.

2) iPhone 6s/6sPlus/7G/7Plus

- ① There is bubble existing in the four corner. This phenomenon is due to the backlight structure of those models. We just leave them aside for 10~20 minutes, the bubble will disappear naturally.
- ② Through the reflect light, if we find twill on the backlight after lamination. It's for the poor heat dissipation of the backlight. Just leave them there, they will be back to normal in few minutes.

4.2 Samsung Series

1) Samsung Flat/Straight Screen

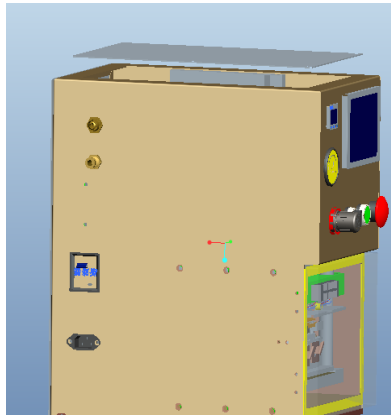
- ① The original screen of first time assembly, we have to tear off the transparent glue bar on the flex cable.

2) Samsung Edge Screen

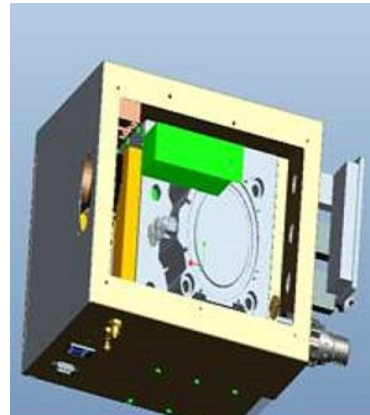
- ① The quality and thickness of OCA will influence the lamination.
- ② Thicker the oca is, the less possibility bubble may appear. But thick oca requires advanced skill when framing the phone.

Parameters/Lamination	Edge Oca	Edge Lcd	Flat Oca	Flat Lcd
Temperature	50°C	45°C	50°C	45°C
Pressure	0.5MPa	0.25MPa	0.4MPa	0.2MPa
Smoke Time (Vacuum Suction Time)	50s	50s	30s	25s
Holding Time (Pressure Maintain Time)	40s	35s	30s	25s

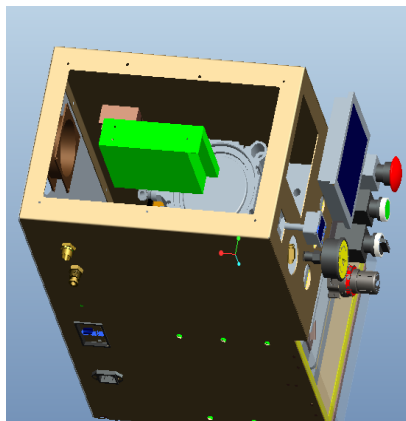
Chapter 5 Machinery Components



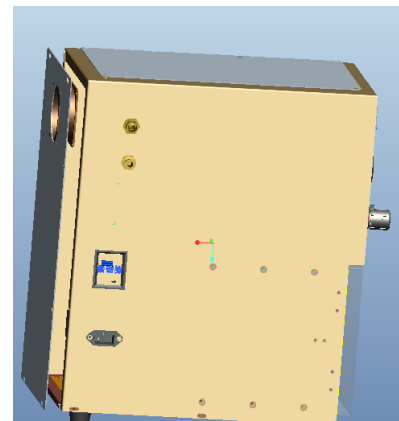
1. Remove the board on the top.



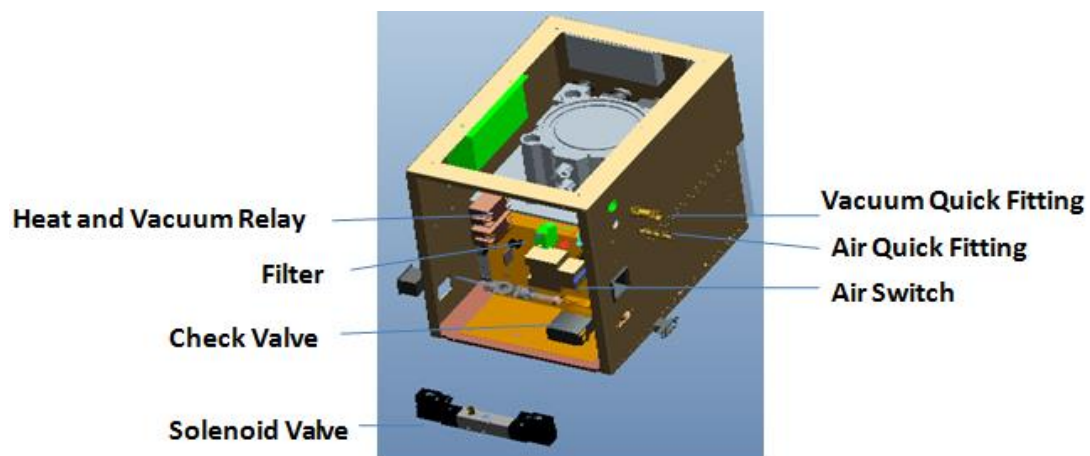
2. Take down power part.



3. Take down all the parts.



4. Take down the backboard.



专利产品 仿冒必究



警告 WARNING

Warning : please turn off the power before cleaning the machine



- ① 清洁机台请先关掉电源
- ② 2升以上泵都可以在加油口直接加机油
- ③ 加到玻璃窗的一半多一点就可以了

严禁无油运转真空泵
使用前务必加入真空泵油
 before filling in vacuum pump oil ,
 pls don' t start the vacuum pump



玻璃视窗