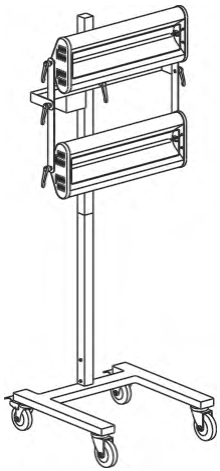
SOL
professional refinishing

Short Wave Infra-red
Car Paint Curing Equipment

User Manual



Model: B2EA

CONTENTS

Foreword 1

Description of Features 1

Technical Parameters 2

Structure Diagram of Whole Machine 2

Installation 3

Control panel & operation 5

Maintenance & Notices 5

Caution 7

Replacement of Emitter Tube 8

Wiring Diagram 9

Trouble Shooting 9

FOREWORD

The short-wave infrared paint dryer model B2EA are special for baking finish of automobiles, which are featured with height penetrability, short baking time, long life tube, height efficiency, convenient and flexible using.

In order to better use this equipment and avoid any occurrence of electric shock, fire or serious injury and death. Please have a careful reading of this User Manual before use.

DESCRIPTION OF FEATURES

1. The lamp cassette for is turntable at certain angle.
2. The height and distance of the emitter are adjustable freely.
3. The angle of the emitter is adjustable, and the height of cassette can be adjusted from 12.5cm to 180cm.
4. Timer knob is adopted to time the baking.

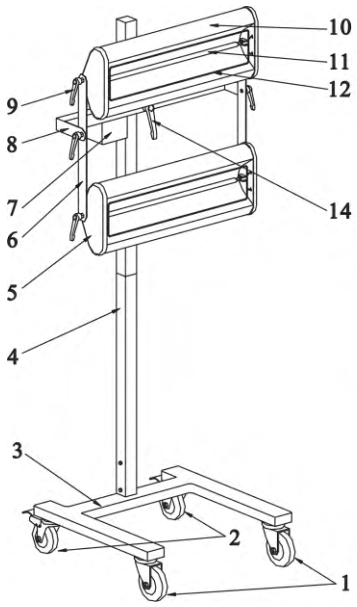
TECHNICAL PARAMETERS

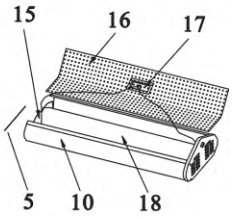
Technical Parameters	B2EA
Input Current (A)	9.1
Input Voltage (V)	240V 60Hz
Short-wave Quartz Halogen Infrared Tube (W)	2×1050
Max. Power (W)	2100
Range of Time (min)	30
Baking Area (m)	0.6×0.8
Optimal Baking Time (min)	15-30
Baking Temperature (℃)	60-70

The actual rate voltage indicated at parameter table of machine.

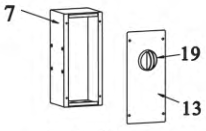
STRUCTURE DIAGRAM OF WHOLE MACHINE

B2EA





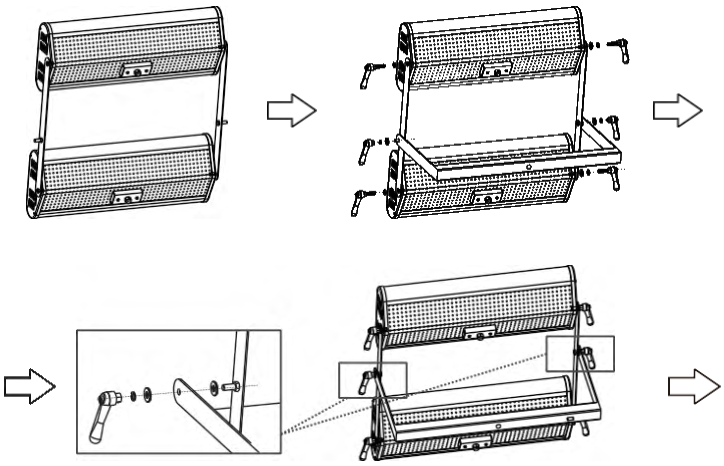
Emitter

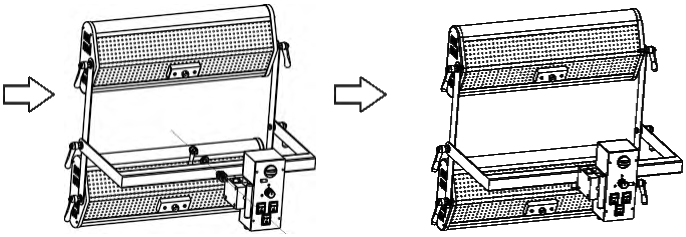


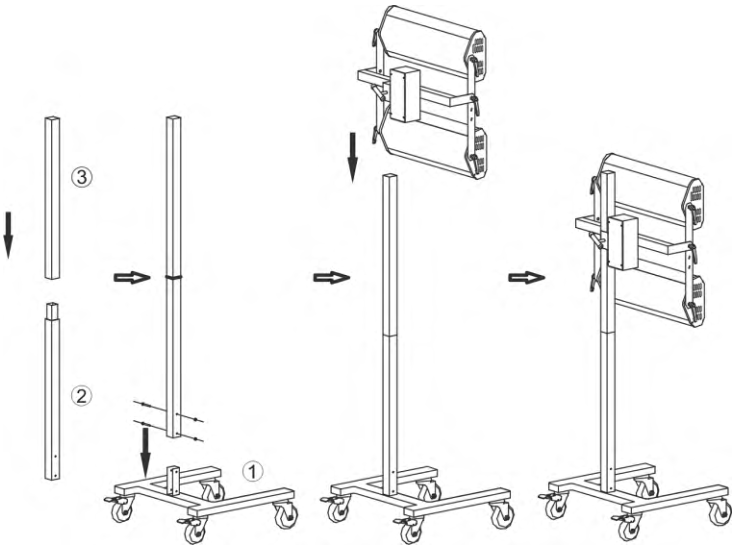
Control box

Parts List of B2EA			
S/N	Name of parts	S/N	Name of parts
1	Front castor	11	Emitter tube
2	Back castor	12	Front protective net
3	Pedestal	13	Control Panel
4	Post	14	AM12 adjustable handle
5	Side panel of emitter	15	Small reflective panel
6	Connectors (left and right)	16	Rear panel
7	Control box	17	Ceramic connector
8	U shape support	18	Reflective panel
9	AM8 adjustable handle	19	Timer
10	Bent plate		

INSTALLATION

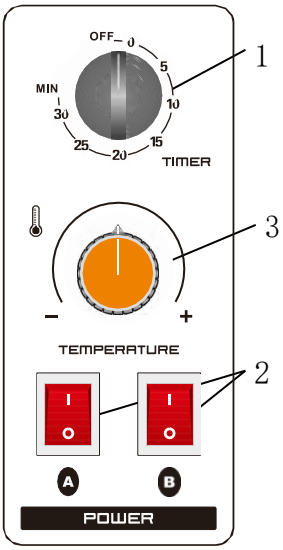






1. Take out two parts of the post, peel off the sticker on it, then insert the upper section ③ of the post into the lower section ② as the arrow direction and side show on sticker.
2. Take out the pedestal ①, insert the well-installed post into the pedestal ① properly, and tighten the screws.
3. Fix the locking hoop onto the post, let the lamp cassette in the front, and then tighten the handle.

CONTROL PANEL & OPERATION



【Key Panel of Model B2EA 】

1. Baking timer knob.
2. Emitter switch.
3. Temperature adjusts

Operation:

(1) Adjust the timer knob 1 to set the heating time.

(2) Turn on the emitter switch 2.

(3) The machine will stop working automatically when the time is up. If you want to continue using it, re-adjust timer knob please.

MAINTENANCE & NOTICES

1. It is not allowed to use this machine in an explosive or combustible environment, otherwise it may lead to fire.
2. In case the machine is used in a spay booth, it is a must to purify the in-house air first.
3. It is not allowed to knock or crash the equipment.
4. It is not allowed to insert any hard object into the emitter.
5. Regular cleaning of tubes and reflector panels should be done by using a piece of soft cloth or cotton with alcohol (Note: cleaning must be conducted after the machine is disconnected with the power and cooled down). You are not allowed to start the lamp tube until the alcohol becomes volatile, otherwise it may lead to explosion.

6. Be careful of the uneven floor when moving the machine to avoid any overturn.
7. The machine should be well grounded for safety. The grounding device should be connected to the proper output port under correct direction. Unauthorized alteration or change of output port is strictly prohibited. Use of any outlet converter is also disallowed. For any uncertainty, please find a professional electrician to check whether the grounding is correct. Please make sure the machine is well grounded to avoid the electric shock.
8. Remove all objects in front of the lamp tubes before starting.
9. Any person should keep away from the painting place for at least 4 meters.
10. If any lamp tube fails to work after starting, it may result from the loosened outlet socket. In such case, just switch off the machine and insert the plug into the socket on the connective box.
11. Avoid any accident caused by random placement and dark lights. Please keep the site clean with enough light.
12. Do not use this machine when it is rainy or damp. Water coming into the machine may lead to electric shock or damage to the machine.
13. For outdoor use, please use the outdoor-specific cables marked with “W-A” or “W” for avoidance of electric shock.
14. Keep your body away from the floor to reduce the possibility of electric shock.
15. Please replace the damaged cables and wires as soon as possible for avoidance of electric shock.
16. Don’t misuse the electric cable. It is not allowed to drag the machine with the power cable or pull the power plug. Please keep the power cable away from the hot, oily or sharp or movable objects.
17. For avoidance of overheating, don’t cover the heater. If the heater is covered or positioned at the wrong place, it may lead to fire.
18. Don’t use the heater at a place where there is no bathroom or swimming pool.
19. When the machine is working, try your best not to allow any

stander-by, child or visitor close to the site. If necessary, protective equipment should be provided.

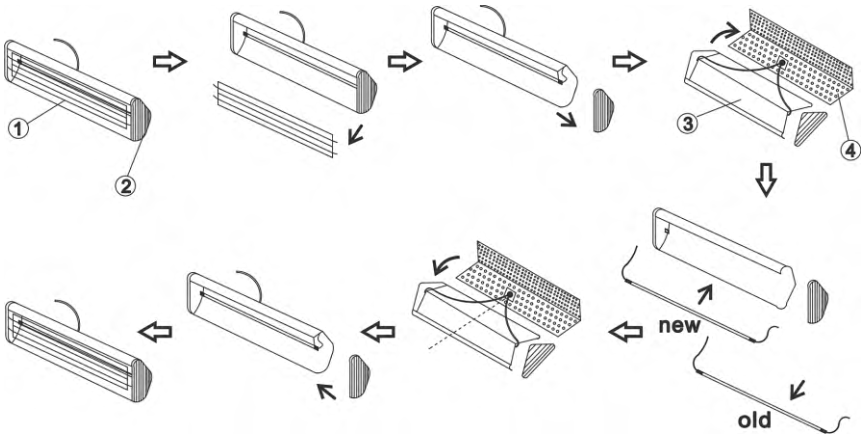
20. Should the power cable is damaged, please ask the manufacturer, service provider or a professional to replace it for avoidance of any injury and damage.
21. It is not allowed to use two emitters to bake or allow one emitter to bake the other one when there is no object to be baked.
22. For replacement of lamp tube, ask the repair service center or a technician to do so.

⚠ CAUTION

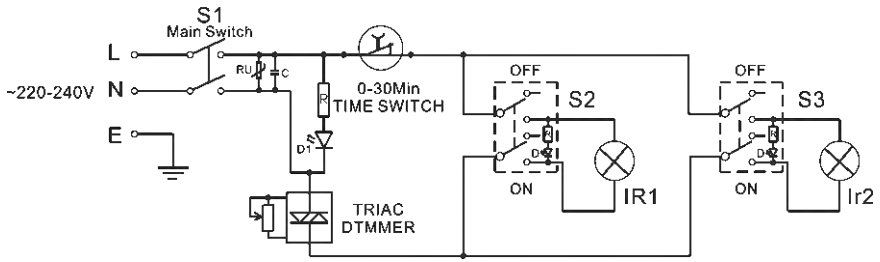
1. Be aware! Special attention should be paid to the current operation for safety. The operator is not allowed to operate the machine when he gets drunk or takes drugs, otherwise mis-operation of this machine may lead to serious injury and even death.
2. Proper dressing: It is not allowed to wear too loose clothes and accessories. Please bind your hair if it is too long.
3. When the machine is started, the wrench or any adjusting tools should be avoided touching the live part of the machine, which may result in electric shock.
4. When you leave, make sure the power is shut down and unplugged.
5. Please maintain a good working environment and keep the working area clean and free of any obstructions, oil, waste article or other broken parts. It is not allowed to use this machine in a place full of chemical gas, particles and volatile chemicals. Keep the site dry.
6. Operation of this machine should not be conducted by a person who has problems in self-control capacity, sense and metal capacities or lacks of experience (including children) except that they are supervised or guided by a responsible person.
7. Take care of children. Make sure that children can’t play with this machine.

REPLACEMENT OF EMITTER TUBE

1. Shut down the power.
2. Take out the front protective net ① in front of the emitter.
3. Loosen the screws on the side panel ② of the emitter and remove the side panel.
4. Release rear panel ④.
5. Loosen the two leads in the lamp tube and remove the tube.
6. Fix the new tube with same model number and wire the tube properly.
7. Install the rear panel ④, reflective panel and the side panel.
8. Use a piece of soft cloth or cotton to clean the reflective panel and the tube with alcohol.
9. Install the front protective net.



WIRING DIAGRAM



B2EA wiring diagram

Attention: The input voltage could be customized.

TROUBLE SHOOTING

Causes of defects on repaired surface and troubleshooting methods.

Ref.	Defect	Cause	Troubleshooting
1	Small pores on the baked paint surface	Too near between the lamp cassette and the repaired surface.	Increase the distance.
		Insufficient Preheating Time.	Increase the preheating time.
		Fast thinning agent included in the paint.	Use standard or slow thinning agent.

2	Dim paint	Too far between the emitter and the repaired surface.	Make the machine closer.
		Insufficient baking.	Increase the baking time
		Too thick coating.	Thin the coating.
3	Stains	Too long baking.	shorten the baking.
		Too near distance.	increase the distance.
4	Fuzzy edge	The repair surface is too large.	Separate it into two pieces to baking.
			Preheating for first time, and do not use preheating for second time.
5	Uneven baking	The emitter is not as height as the repaired surface.	Adjust the emitter to allow it to be as height as the repaired surface.

Note: For optimal baking performance, we recommend that users should work out the suitable operating procedures, baking time and distance according to the local natural conditions, working environment and the types of paints.