



Manuals.plus /

- › DATOUBOSS /
- › DATOUBOSS 2000W Infrared Paint Curing Lamp User Manual

DATOUBOSS ZJ-SC-003-Y

DATOUBOSS 2000W Infrared Paint Curing Lamp User Manual

Model: ZJ-SC-003-Y

Brand: DATOUBOSS

1. INTRODUCTION AND OVERVIEW

The DATOUBOSS 2000W Infrared Paint Curing Lamp is designed for efficient and rapid drying and curing of paint coatings, particularly in automotive body repair. This device utilizes shortwave infrared radiation, which penetrates the paint surface to heat from the inside out, significantly reducing curing times and improving work efficiency. The lamp features an adjustable timer and a high-reflectivity reflector for uniform heat distribution.

This manual provides essential information for the safe and effective use of your infrared paint curing lamp, including assembly, operation, maintenance, and troubleshooting.

2. SAFETY INFORMATION

Read all safety warnings and instructions carefully before operating this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** This unit operates at 110V. Ensure the power outlet is properly grounded and capable of handling a 2000W load. It is recommended to plug the lamp directly into a dedicated 120V outlet. If an extension cord is necessary, use a heavy-duty cord (10 gauge or better) to prevent overheating.
- **Breaker Tripping:** The unit may trip a circuit breaker upon initial startup, especially when cold, due to a high inrush current. This is sometimes normal for high-power heating devices. If it continues to trip after the first attempt, or if it trips during operation, discontinue use and inspect the electrical connection.
- **Internal Shorting Risk:** Some units may have an internal design flaw where screws in the ceramic connector block can contact the metal shield, creating an electrical short. If you suspect an electrical short (e.g., sparks, burning smell, repeated breaker trips), immediately unplug the unit and do not use it. Professional inspection and repair are required.
- **High Temperature:** The lamp generates intense heat. Do not touch the lamp head or bulbs during or

immediately after operation. Allow sufficient time for cooling.

- **Fire Hazard:** Keep flammable materials, liquids, and gases away from the lamp during operation. Ensure adequate ventilation in the work area.
- **Eye Protection:** Avoid direct exposure to infrared radiation. Wear appropriate eye protection when operating the lamp.
- **Ventilation:** Ensure the work area is well-ventilated to dissipate heat and fumes from curing paints.
- **Stability:** Always ensure the stand is stable and on a level surface to prevent tipping.
- **Children and Pets:** Keep children and pets away from the operating lamp.

3. PRODUCT COMPONENTS

Verify that all components are present in the package:

- Baking Lamp (SC-003)
- Telescopic Support / Stand
- Fixing Nuts
- Connecting Plate
- Fixed Plate
- Handle
- Hexagon Wrench
- Instruction Manual (this document)

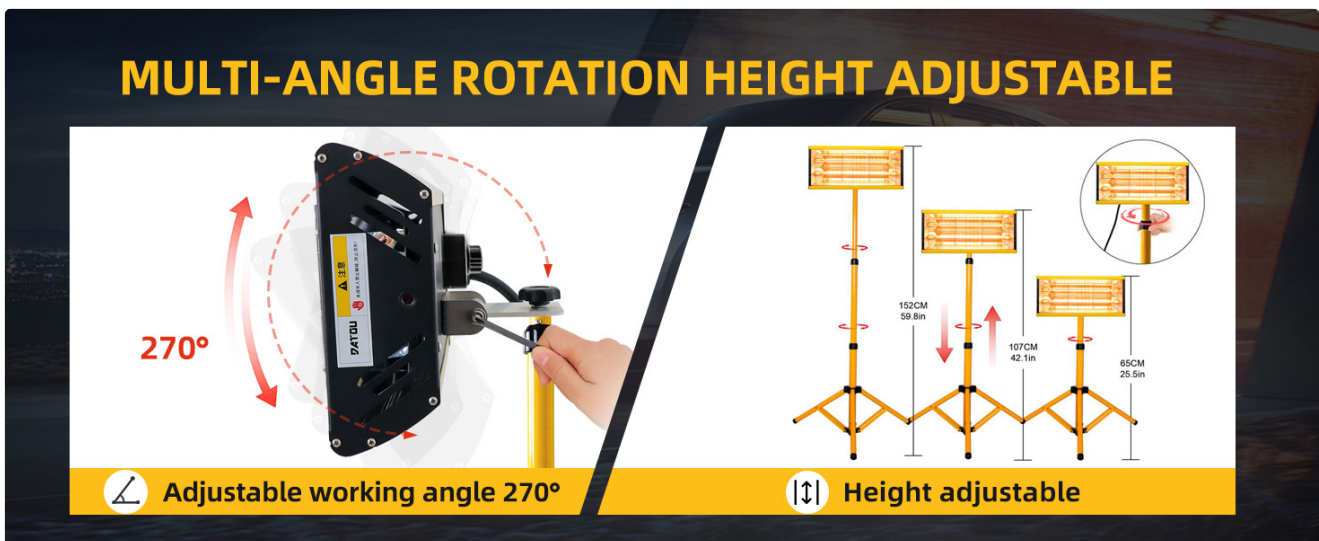


Figure 3.1: Included Product Accessories

4. SETUP AND ASSEMBLY INSTRUCTIONS

Follow these steps to assemble your DATOUBOSS Infrared Paint Curing Lamp:

1. **Install the Base:** Manually remove the nut from the telescopic support. Adjust the bolt to the middle position, align it with the two holes on the base, and insert it. Then, tighten the nut securely.

2. **Install the Connection Board:** Align the internal thread through the holes on the connecting plate with the holes on both sides of the mounting plate on the lamp head. Tighten the nuts to ensure the connecting plate is perpendicular to the mounting plate.
3. **Connect the Bracket:** Remove the rotating nut on the top of the telescopic support. Align the hole in the middle of the connecting plate (attached to the lamp head) with the top of the telescopic support, and then tighten the nut.
4. **Adjust the Height:** Utilize the two rotating devices on the telescopic support to freely expand or contract the stand, adjusting the lamp to the desired height. Ensure all locking mechanisms are tightened after adjustment.

ZJY-SC-003

01	Model: ZJY-SC-003
02	Power: 2000W
03	Vollege: 110V 60hz
04	Baking Area: 19.7*16.5in/500*420mm
05	Operating Temperature: 0-200°C
06	Product Dimensions: 24.4*13.3*7.4inch/620*340*190mm
07	Net Weight: 10.8lbs/4.9KG
08	Product material: Aluminum Alloy
09	Accessories: Baking lamp; Fixing nut; Connecting plate; Fixed plate; Hand grip; Hexagonal wrench; Instruction manual;






Figure 4.1: Assembly Steps


DATOUBOSS


INFRARED PAINT CURING LAMP


Model: ZJY-SC-003
Power: 2000W



1 Heating from the inside out




2 Baking Area: 19.7*16.5in




3 Timer

Figure 4.2: Height Adjustment Range

2000W infrared paint curing lamp

 Sturdy & Solid Frame

 Efficient Shortwave Infrared Heating

 Easy Operation

 Curing area: 19.7*16.5in

For auto sheet metal painting

The Infrared paint baking lamp fitted with powerful 2000W short wave infrared lamps - instant heat can be directed wherever and whenever it requires. The heating speed is **60% to 80%** faster than the traditional one.

Infrared paint curing lamp is suitable for drying putty and painted surface during car maintenance work to achieve a better painted surface. It can also be used for drying furniture varnish, defogging and dehumidifying, filming cars, etc.



Focus on Quality **22** Years

"DATOUBOSS" is an excellent Chinese enterprise which specializing in the research and development of infrared paint dryer. With a complete production and development department and independent import and export qualifications.

We continue to introduce new products, determined to provide customers with satisfactory services and high-quality products, and have won the love of most customers at home and abroad.

Figure 4.3: Adjustable Working Angle

5. OPERATING INSTRUCTIONS

The DATOUBOSS Infrared Paint Curing Lamp offers flexible operation and precise control for various curing tasks.

5.1. Positioning and Angle Adjustment

- Position the lamp on a stable, level surface near the area to be cured.
- Adjust the height of the lamp using the telescopic support to ensure optimal distance from the painted surface.
- The lamp head can be manually adjusted up to 270 degrees to direct heat precisely where needed. Loosen the adjustment knob, set the desired angle, and then tighten the knob to secure it.
- The lamp can be used in a stationary stand configuration or as a handheld unit for targeted applications.



Figure 5.1: Configurable Lifting Bracket in Use

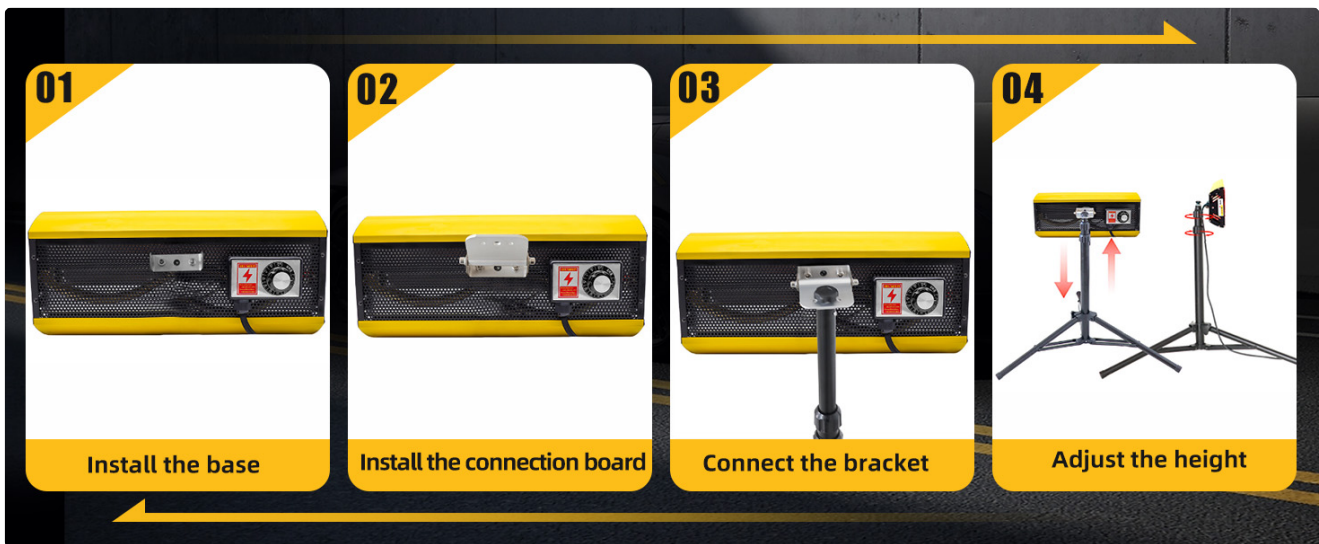


Figure 5.2: Handheld and Stand Operation

5.2. Timer Function

- The integrated timer allows you to set the curing duration from 0 to 90 minutes.
- Turn the timer knob to the desired curing time. The lamp will automatically shut off once the set time has elapsed.
- Setting the correct drying time is crucial for achieving optimal paint surface effects without issues like air bubbles.

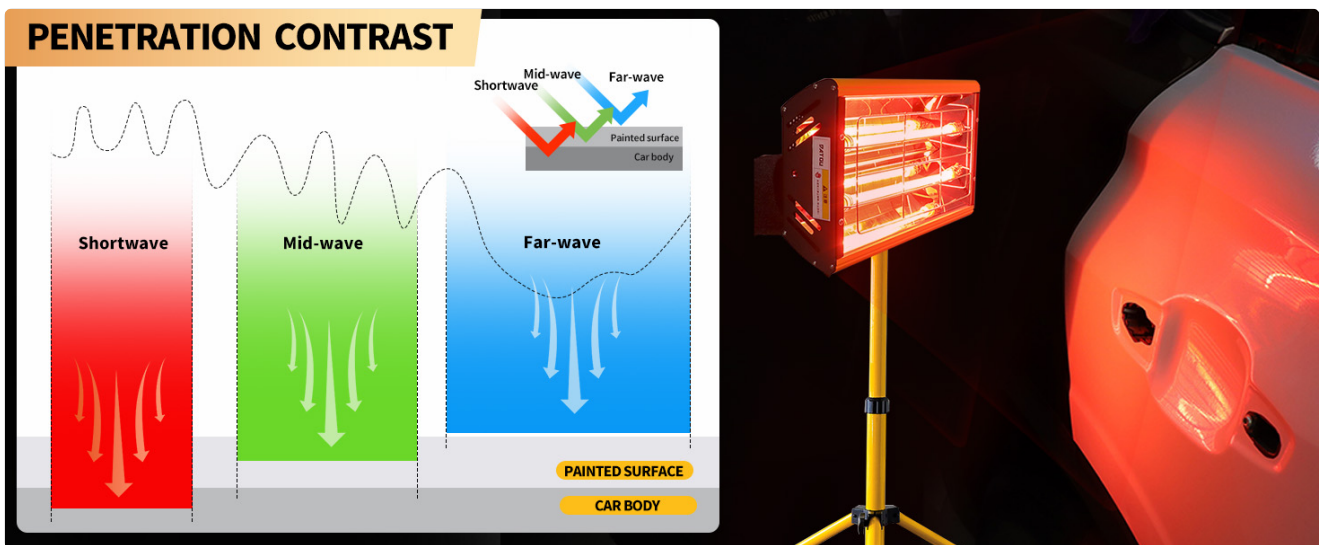


Figure 5.3: 0-90 Minute Timer

5.3. Curing Process and Applications

The shortwave infrared technology ensures fast and powerful penetration, heating paint layers from the inside out. This method is effective for various paint types and applications.

- **Curing Area:** The lamp provides a curing area of approximately 650 x 500 mm (25.6 x 19.7 inches).
- **Operating Temperature:** The working temperature can reach 0-200 °C (0-392 °F).
- **Typical Drying Times:**
 - Rust-resistant Primer: 8-10 minutes
 - First Putty: 10-14 minutes
 - Midway Primer: 11-15 minutes
 - Topcoat: 13-19 minutes

- Varnish: 12-19 minutes

- **Applications:** Widely used in auto spray paint rooms, for local paint drying, drying putty, car spray cooking booths, on-site repairs, engine drying, removing adhesive strips, drying filler, primer desiccant, or preheating before spraying.

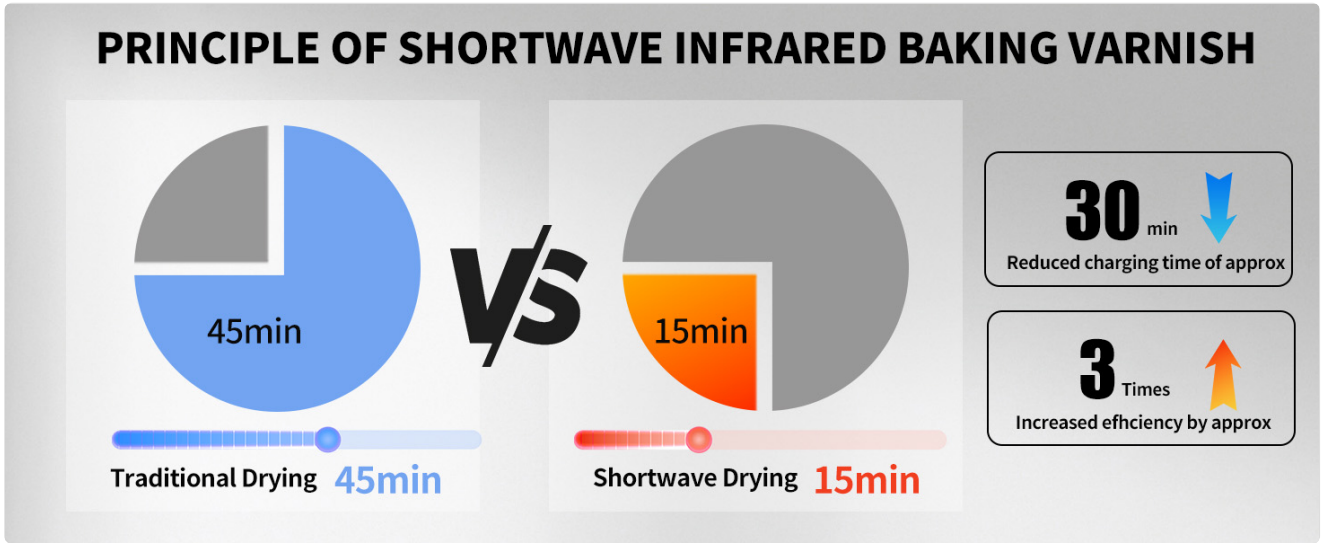


Figure 5.4: Shortwave Infrared Penetration and Drying Times

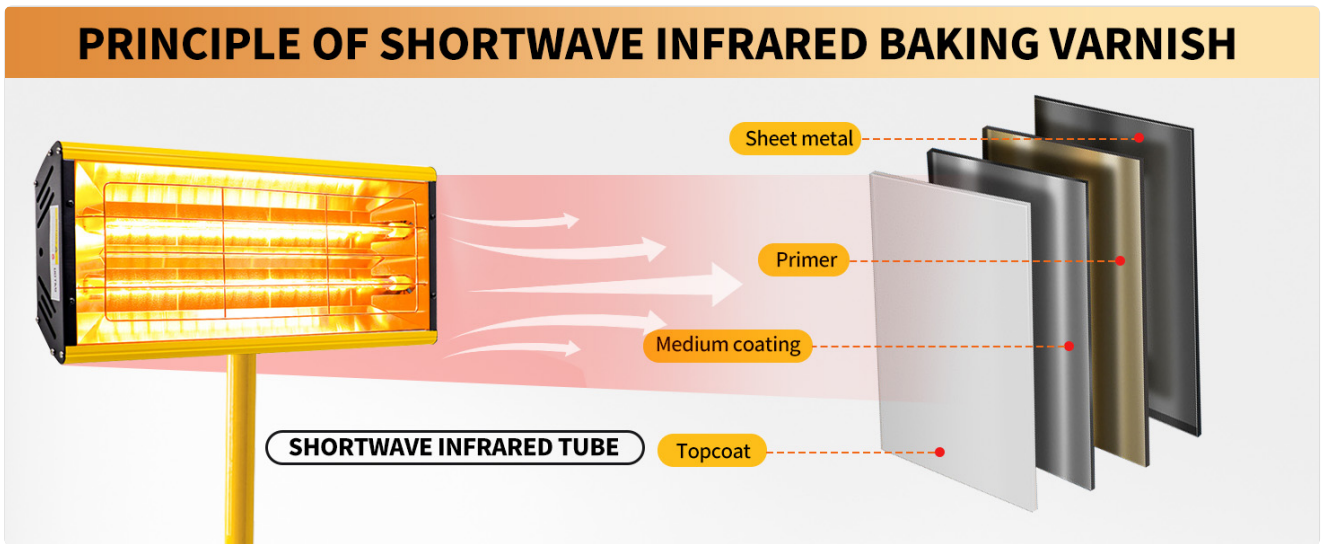


Figure 5.5: Penetration Contrast of Infrared Waves

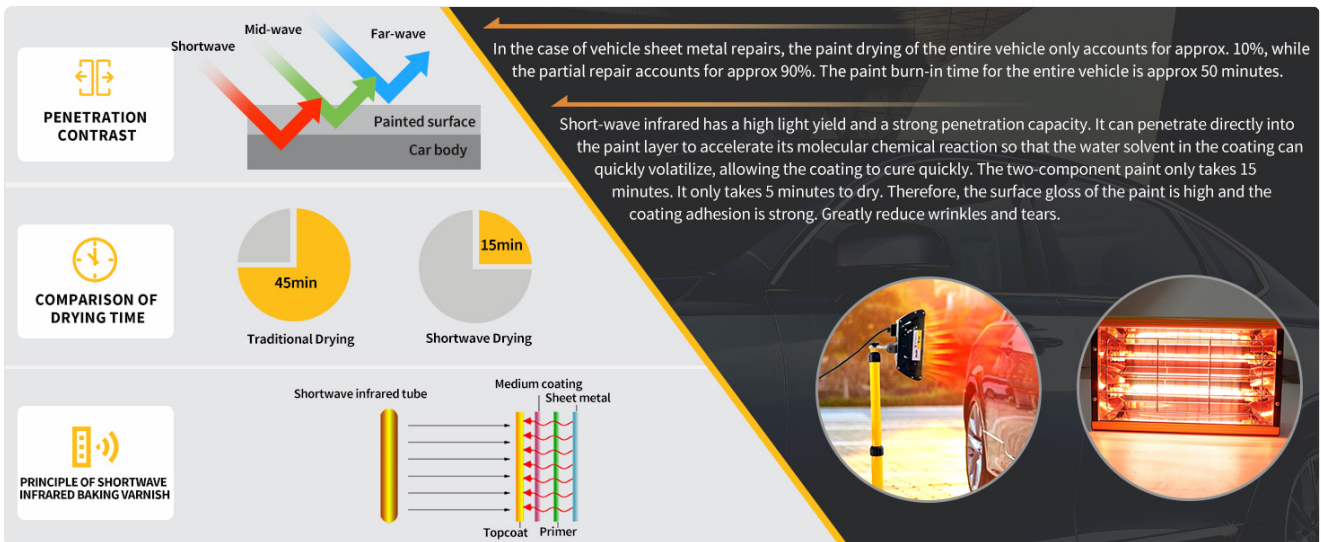


Figure 5.6: Drying Time Comparison (Traditional vs. Shortwave)

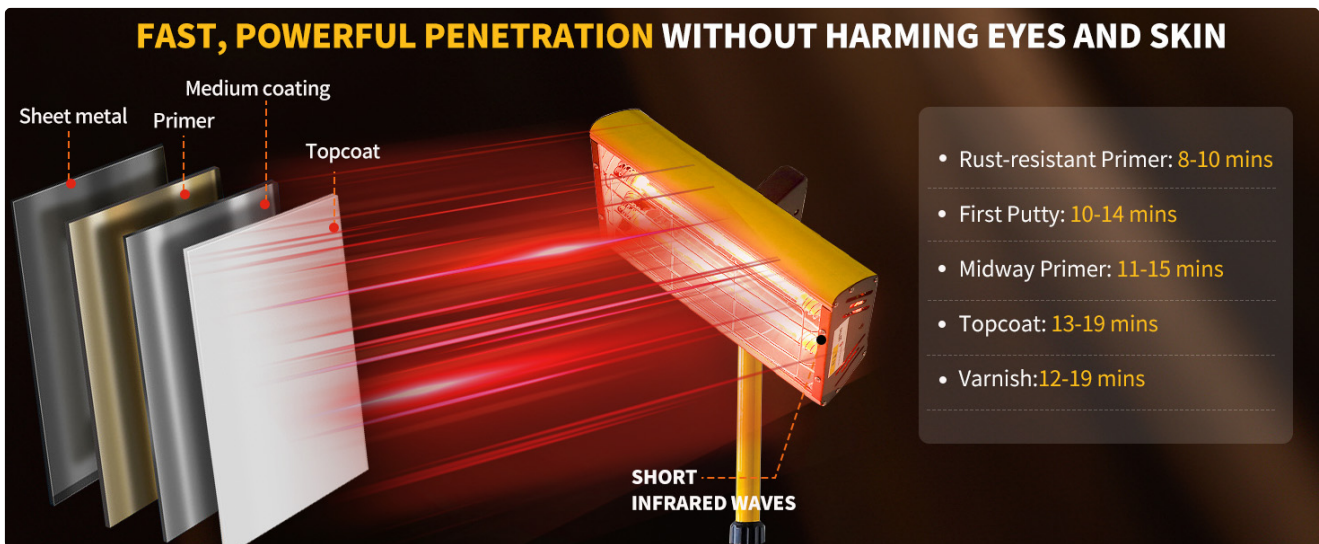


Figure 5.7: Wide Range of Applications

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your paint curing lamp.

- **Cleaning:** Ensure the lamp is unplugged and completely cool before cleaning. Wipe the exterior surfaces with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Bulb Replacement:** The infrared bulbs can be quickly disassembled and replaced when necessary. Refer to the product specifications for compatible bulb types. Always ensure the unit is unplugged and cool before attempting bulb replacement.
- **Heat Dissipation:** The lamp is constructed with an aluminum alloy body and a perforated back panel to enhance heat dissipation. Ensure that the ventilation holes are not obstructed during operation to maintain effective cooling and extend service life.
- **Storage:** Store the lamp in a dry, clean environment when not in use.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your infrared paint curing lamp.

Problem	Possible Cause	Solution
Lamp does not turn on	No power supply; Timer not set; Damaged bulb; Internal wiring issue.	Check power connection and outlet. Set the timer. Inspect bulbs for damage and replace if necessary. If still not working, contact support.
Circuit breaker trips upon startup or during operation	High inrush current (normal for cold start); Overloaded circuit; Electrical short within the unit; Faulty wiring/extension cord.	If it trips once on cold start, try again. Ensure the lamp is on a dedicated 20A circuit. Use a 10-gauge or better extension cord if needed. If repeated, discontinue use and seek professional inspection for internal shorting.
Power cord overheats	Inadequate extension cord; Loose connection; Overloaded circuit.	Plug directly into a 120V outlet. If an extension cord is necessary, use a heavy-duty (10 gauge or better) cord. Ensure connections are secure.
Uneven curing or slow drying	Incorrect distance from surface; Improper angle; Damaged reflector; Incorrect timer setting.	Adjust lamp distance and angle for uniform coverage. Check reflector for damage. Verify timer settings are appropriate for the paint type.
Bulbs flicker or dim	Loose bulb connection; Nearing end of bulb life; Voltage fluctuations.	Ensure bulbs are securely seated. Replace bulbs if they are old. Check power supply for stable voltage.

8. SPECIFICATIONS

Feature	Detail
Model	ZJ-SC-003-Y
Power	2000W
Voltage	110V 60Hz
Curing Area	650 x 500 mm (25.6 x 19.7 inches)
Operating Temperature	0 - 200 °C (0 - 392 °F)
Product Dimensions (Lamp Head)	620 x 340 x 190 mm (24.4 x 13.3 x 7.4 inches)
Net Weight	5.01 kg (11.04 lbs)
Material	Aluminum Alloy
Timer Range	0 - 90 minutes
Adjustable Angle	270 degrees

9. WARRANTY INFORMATION

Specific warranty details for the DATOUBOSS 2000W Infrared Paint Curing Lamp may vary depending on your region and point of purchase. Please refer to the warranty documentation included with your product or contact the retailer from whom you purchased the item for detailed information regarding warranty coverage, terms, and conditions.

10. SUPPORT AND CONTACT INFORMATION

For technical assistance, product inquiries, or to report any issues, please contact DATOUBOSS customer support through the retailer or platform where you purchased this product. Have your model number (ZJ-SC-003-Y) and purchase details ready when contacting support.