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DATOU BOSS Infrared Paint Curing Lamp DT-SC-003 User Manual

Model: DT-SC-003

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your DATOU BOSS Infrared Paint Curing Lamp, Model DT-SC-003. This device is designed for professional use in automotive body repair, paint curing systems, and other applications requiring efficient paint drying.

The lamp utilizes shortwave infrared heating technology, which offers high luminous efficiency and strong penetrating power. This allows for drying from the inside out, resulting in a high surface gloss and strong coating adhesion, while reducing the risk of wrinkles and tears in the paint finish.

Wide range of applications

Widely used in car cab billboards, car paint, metallic paint, natural paint



Figure 1: Wide range of applications for the DATOU BOSS Infrared Paint Curing Lamp.

2. SAFETY INSTRUCTIONS

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

- **Electrical Safety:** Ensure the power supply matches the lamp's voltage (110V). Do not operate the lamp with a damaged cord or plug. Keep the power cord away from heat, oil, sharp edges, or moving parts.
- **Heat Hazard:** The lamp generates intense heat. **Caution: Product may overheat if used for extended periods. Ensure to allow proper heat dissipation.** Do not touch the lamp housing or bulbs during operation or immediately after use. Allow sufficient time for cooling.
- **Burn Prevention:** Minors are not allowed to touch to prevent burns. Always wear appropriate personal protective equipment, including heat-resistant gloves and eye protection.
- **Flammable Materials:** Do not use the lamp near flammable liquids, gases, or materials. Ensure adequate ventilation in the work area.
- **Positioning:** Position the infrared paint curing lamp at a safe distance from the painted surface to prevent damage to the paint or the surface itself. Avoid direct contact with the surface being cured.
- **Storage:** Turn off and unplug the lamp when not in use. Store the lamp in a dry, safe place, out of reach of children.
- **Maintenance:** Do not attempt to modify or repair the lamp yourself. Refer all servicing to qualified personnel.

3. PRODUCT FEATURES

The DATOU BOSS DT-SC-003 Infrared Paint Curing Lamp is engineered with several key features for optimal performance:

- **Shortwave Infrared Heating:** High luminous efficiency and strong penetrating power for efficient, inside-

out drying.

- **Reflector Design:** Interior features a specially designed reflector for uniform heat distribution and increased curing area, shortening curing time.
- **High Heat Dissipation:** Constructed from aluminum alloy with an aluminum alloy mesh front and perforated aluminum alloy sheet back, enhancing heat dissipation and extending service life.
- **Easy Operation:** Equipped with a rotating lamp housing and a stable adjustable metal tube construction. Features ball bearing rollers with a parking brake for convenient and safe positioning.
- **Smart Timer Function:** Integrated 0-90 minutes intelligent timing function for precise control and automatic shutdown.

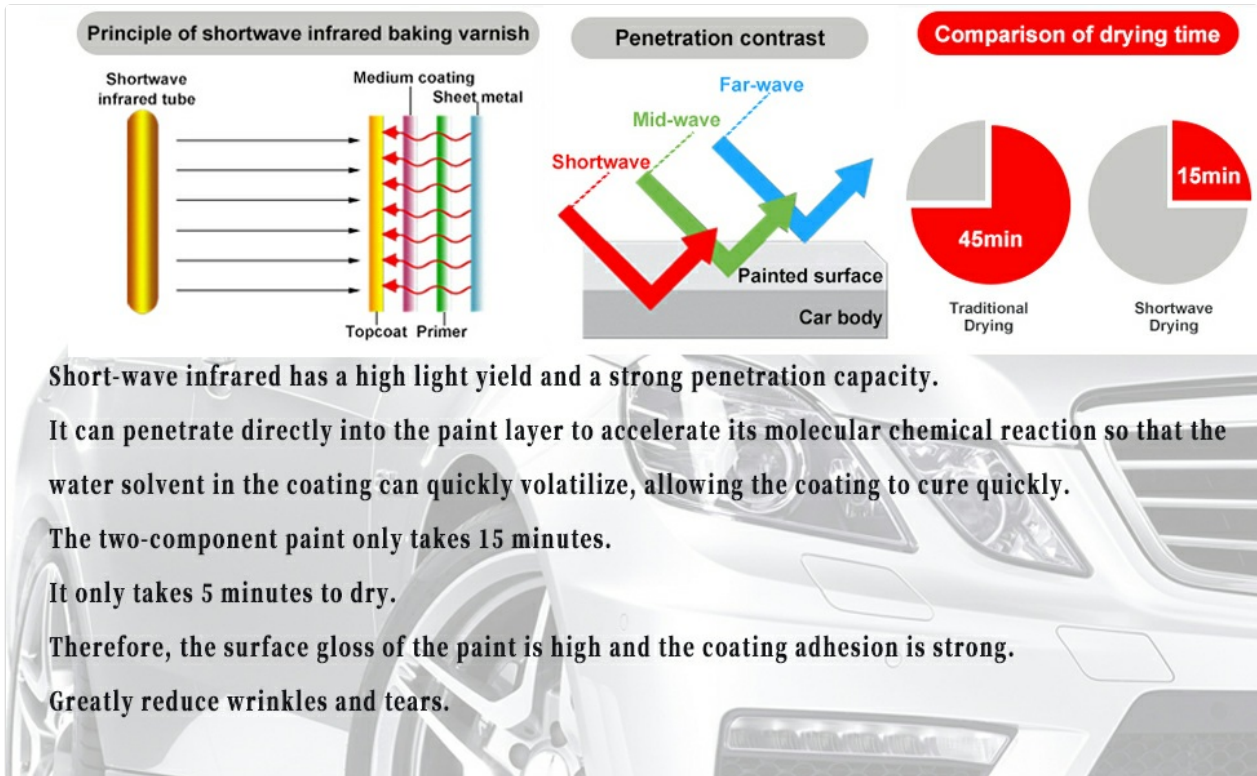


Figure 2: Shortwave infrared baking principle and drying time comparison.



Figure 3: Detail of cooling holes for enhanced heat dissipation.

4. COMPONENTS OVERVIEW

Familiarize yourself with the main components of your infrared paint curing lamp:



Figure 4: Key components of the DATOU BOSS Infrared Paint Curing Lamp.

- **Aluminum Shell:** Provides durability and contributes to heat dissipation.
- **Vents:** Located on the back for airflow and cooling.
- **Copper Wire:** High-quality power cable for reliable electrical connection.
- **Infrared Shortwave Tube:** The primary heating element.
- **Bright Chrome Grid:** Protective cover for the infrared tubes, resistant to rust.
- **Configurable Lifter:** For adjusting the lamp's position.
- **Intelligent Timing Function Knob:** Allows setting the curing time from 0 to 90 minutes.
- **Detachable Handheld Handle:** For portable use and easy positioning.

5. SETUP GUIDE

Follow these steps to set up your infrared paint curing lamp:

1. **Unpack:** Carefully remove all components from the packaging. Inspect for any damage.
2. **Assemble Handle (if detached):** Attach the detachable handheld handle to the lamp housing if it is not already installed. Ensure it is securely fastened.
3. **Positioning:** Place the lamp on a stable, level surface or mount it using appropriate equipment. The lamp features ball bearing rollers with a parking brake for stability.
4. **Adjust Angle:** Use the configurable lifter and rotating lamp housing to adjust the angle and height of the lamp to direct heat towards the desired area.
5. **Power Connection:** Ensure the lamp is switched off. Plug the power cord into a grounded 110V electrical outlet.

6. OPERATING INSTRUCTIONS

Operating the DATOU BOSS Infrared Paint Curing Lamp involves a few simple steps:

1. **Prepare Surface:** Ensure the area to be painted is clean and free of debris. Apply paint to the surface according to manufacturer guidelines.

2. **Position Lamp:** Position the infrared paint curing lamp at a safe and effective distance from the painted surface. Refer to paint manufacturer recommendations for optimal curing distance and time.
3. **Set Timer:** Turn the intelligent timing function knob to set the desired curing time (0-90 minutes). The lamp will automatically turn on once the timer is set.



Figure 5: Timer knob for setting curing duration.

4. **Monitor Curing:** Allow the paint to dry according to the recommended time. The lamp will emit a bright red light during operation.

ADVANTAGE

Shortwave infrared lamp

Short-wave infrared baking principle

Infrared shortwave tube

Service life

10000 HOURS

·It is suitable for the drying of putty and painted surface in quick repair and quick repair operation, bringing a better painted surface.

·Improve the gloss and fullness of the paint coating surface, improve the adhesion of the paint coating, and avoid rework.

Figure 6: Lamp in operation, emitting infrared light.

5. **Automatic Shutdown:** The lamp will automatically shut down once the set time has elapsed.
6. **Cool Down:** After use, allow the lamp to cool down completely before handling or storing.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your curing lamp:

- **Cleaning:** Disconnect the power cord before cleaning. Use a soft, dry cloth to wipe down the exterior of the lamp. Do not use abrasive cleaners or solvents.
- **Bulb Replacement:** If an infrared tube fails, replace it with an identical shortwave infrared tube. Ensure the lamp is unplugged and cool before attempting replacement.
- **Inspection:** Periodically inspect the power cord for any signs of damage. Check all connections and fasteners for tightness.
- **Storage:** Store the lamp in a clean, dry environment when not in use.

8. TROUBLESHOOTING

If you encounter issues with your DATOU BOSS Infrared Paint Curing Lamp, refer to the following common problems and solutions:

- **Lamp does not turn on:**
 - Check if the power cord is securely plugged into a working outlet.
 - Ensure the timer knob is set to a duration greater than zero.
 - Verify that the power outlet is functional by testing with another device.
- **Insufficient curing:**
 - Adjust the lamp closer to the painted surface (while maintaining a safe distance).
 - Increase the curing time setting.
 - Ensure the work area temperature is not excessively low.
 - Check if all infrared tubes are functioning correctly. Replace any burnt-out tubes.
- **Lamp overheats:**
 - Ensure adequate ventilation around the lamp.
 - Do not operate for excessively long periods without allowing cool-down intervals.
 - Check that the cooling vents are not obstructed.

If problems persist, contact customer support for assistance.

9. SPECIFICATIONS

Technical specifications for the DATOU BOSS Infrared Paint Curing Lamp DT-SC-003:

Short wave infrared Baking technique

- ▶ From the inside out
- ▶ Quick drying
- ▶ Patented product

POWER:2000W

Figure 7: Product dimensions and key specifications.

| Specification | Value |
|-----------------------|---------------------------------|
| Model Number | DT-SC-003 |
| Brand | DATOU BOSS |
| Power | 2000 watts |
| Voltage | 110V |
| Lamp Material | Halogen tube |
| Product Material | Aluminum Alloy |
| Curing Area | 420 x 500 mm (16.53 x 19.68 in) |
| Lamp Tube Length | 370 mm (14.56 in) |
| Operating Temperature | 0-200°C |
| Net Weight | 2.45 kg (5.4 lbs) |
| Package Dimensions | 18.3 x 9.85 x 7.6 inches |
| Color | Yellow |
| Power Source | Corded Electric |

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact DATOU BOSS customer service through your original point of purchase or visit the official DATOU BOSS website. Please have your

model number (DT-SC-003) and purchase date available when contacting support.