

DATOUBOSS SC-12

DATOUBOSS Portable Infrared Paint Curing Lamp User Manual

Model: SC-12

1. INTRODUCTION

The DATOUBOSS Portable Infrared Paint Curing Lamp (Model SC-12) is a 2000W handheld device designed for efficient and effective paint drying and curing in automotive body repair and other applications. Utilizing shortwave infrared heating technology, this lamp provides rapid and deep penetration, curing paint from the inside out to achieve a high-gloss finish and strong coating adhesion. Its robust aluminum alloy construction ensures durability and excellent heat dissipation. This manual provides essential information for the safe and proper operation, setup, maintenance, and troubleshooting of your infrared paint curing lamp. Please read it thoroughly before use.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in electric shock, fire, serious injury, or property damage.

- Always operate the lamp in a well-ventilated area to prevent the buildup of fumes from paints or solvents.
- Ensure the power supply matches the lamp's voltage requirements (110V/220V, 50Hz/60Hz). Use a grounded outlet.
- Do not touch the lamp's heating elements or surrounding metal surfaces during or immediately after operation, as they become extremely hot. Allow sufficient time for cooling.
- Keep flammable materials, liquids, and gases away from the lamp during operation.
- Wear appropriate personal protective equipment (PPE), including heat-resistant gloves and eye protection, when operating the lamp.
- Do not expose the lamp to water or operate it in wet conditions.
- Inspect the power cord and plug for any damage before each use. Do not use if damaged.
- Keep children and pets away from the operating area.
- Unplug the lamp from the power source when not in use, before cleaning, or before performing any maintenance.
- Do not modify the lamp or use it for purposes other than its intended use.

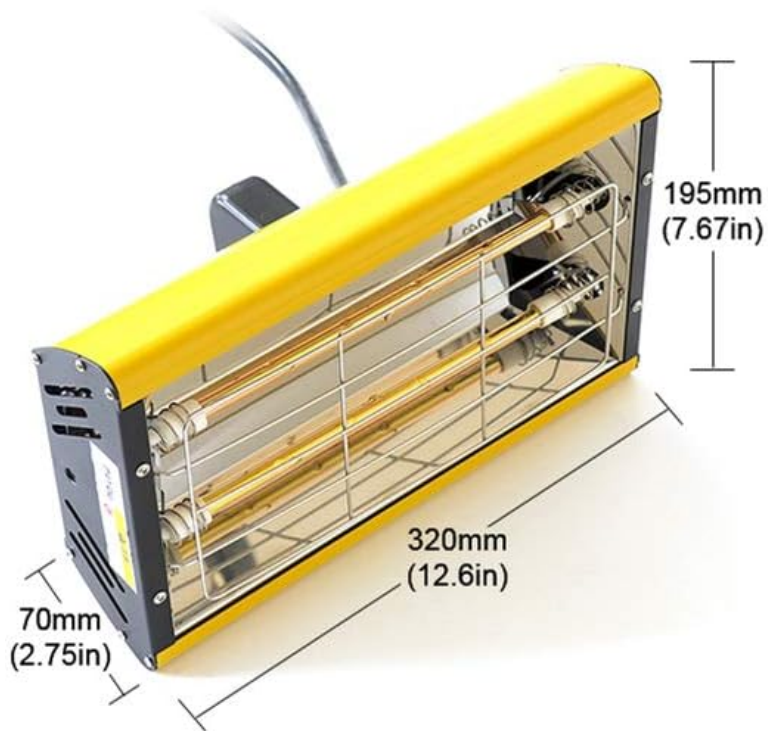
3. PRODUCT FEATURES

- **Shortwave Infrared Heating:** High luminous efficiency and strong penetrating power. Penetrates the paint layer, drying from the inside out, resulting in high surface gloss and strong coating adhesion. Reduces wrinkles and tears, minimizing rework.
- **Reflector Design:** Features a specially designed interior 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 sheet back, enhancing heat dissipation and extending service life.
- **Easy Operation:** Equipped with a rotating lamp housing and a stable adjustable metal tube construction. Can be used handheld or mounted on a stand (stand not included with handheld model).
- **Versatile Application:** Ideal for auto spray paint rooms, local paint drying, drying putty, car spray baking booths, spot repairs, engine drying, adhesive stripe removal, drying filler, drying primer, and preheating prior to spraying.

4. SPECIFICATIONS

| Specification | Value |
|-----------------------------|---|
| Model | SC-12 |
| Power | 2000W |
| Lamp Material | Halogen Tube |
| Product Material | Aluminum Alloy |
| Voltage | 110V / 220V (50Hz/60Hz) |
| Curing Area | 350 x 400 mm (17.7 x 15.7 in) |
| Lamp Tube Length | 270 mm (10.6 in) |
| Operating Temperature | 0-200°C |
| Net Weight | 1.91 kg (4.18 lbs) |
| Item Dimensions (L x W x H) | 320 x 195 x 70 mm (12.6 x 7.67 x 2.75 in) |

PARAMETER



| |
|---|
| Model: DT-SC-002 |
| Power:2000W |
| Lamp Material :Halogen tube |
| Product material:Aluminum Alloy |
| Voltage:110v/220V 50Hz/60Hz |
| Curing Area: 350*400mm (17.7*15.7in) |
| Lamp Tube length: 270mm (10.6in) |
| Operating Temperature: 0-200°C |
| Net weight:1.91kg |



Figure 4.1: Product dimensions and key parameters.

This image illustrates the physical dimensions of the DATOUBOSS Infrared Paint Curing Lamp, including its length, width, and height, along with a table detailing its power, lamp material, voltage, curing area, lamp tube length, operating temperature, and net weight.

5. SETUP

The DATOUBOSS Portable Infrared Paint Curing Lamp is designed for quick and easy setup.

1. **Unboxing:** Carefully remove all components from the packaging. Inspect the lamp and accessories for any signs of damage during transit.



Figure 5.1: Main view of the DATOUBOSS Infrared Paint Curing Lamp.

This image displays the primary view of the DATOUBOSS Portable Infrared Paint Curing Lamp, highlighting its yellow casing, internal halogen tubes, and the detachable handle.

2. **Attach Handle:** The lamp comes with a detachable handle. Align the handle with the mounting points on the top of the lamp and secure it firmly.



Figure 5.2: Lamp with detachable handle.

This image shows the DATOUBOSS Infrared Paint Curing Lamp alongside its detachable handle, illustrating how the handle can be attached for handheld operation.

- 3. Positioning:** For handheld use, ensure a comfortable grip. If using with a stand (sold separately), securely mount the lamp onto the stand's configurable lifting bracket.

Configurable lifting bracket

Install the upper bracket for ascending, descending, up, down and 360 ° rotating operations



Figure 5.3: Lamp mounted on a stand for car body repair.

This image demonstrates the DATOUBOSS Infrared Paint Curing Lamp mounted on an optional stand, positioned next to a car, showcasing its use in a fixed curing application.

4. **Power Connection:** Connect the standard US plug to a suitable grounded electrical outlet. Ensure the outlet's voltage matches the lamp's requirements.



Figure 5.4: Standard US Plug.

This image highlights the standard US plug of the DATOUBOSS Infrared Paint Curing Lamp, emphasizing its robust construction for reliable power connection.

[Unboxing and Operation Demonstration Video](#)

Your browser does not support the video tag.

This video demonstrates the unboxing process and initial operation of the DATOUBOSS Portable Infrared Paint Curing Lamp, including how it powers on and emits infrared light.

6. OPERATING INSTRUCTIONS

The DATOUBOSS Infrared Paint Curing Lamp is designed for straightforward operation.

1. **Power On:** Once connected to a suitable power source, the lamp will immediately begin to heat up. There is no separate on/off switch; operation is "plug and play."



Figure 6.1: "Plug and Play" operation.

This image emphasizes the "Plug and Play" functionality of the lamp, indicating that it activates immediately upon being plugged into a power source, saving time and effort.

2. **Positioning for Curing:** Direct the lamp towards the area requiring curing. Maintain an appropriate distance from the surface to ensure even heating and prevent damage. The optimal curing distance is typically within the specified curing area of 350x400mm.



Figure 6.2: Lamp in operation.

This image shows the DATOUBOSS Infrared Paint Curing Lamp actively emitting its red infrared light, demonstrating its powerful heating capability during operation.

3. Curing Times (Approximate):

- Rust-resistant Primer: 8-10 minutes
- First Putty: 10-14 minutes
- Midway Primer: 11-15 minutes
- Topcoat: 13-19 minutes
- Varnish: 12-19 minutes

These times are approximate and may vary based on paint type, thickness, ambient temperature, and desired finish. Always monitor the curing process closely.



Figure 6.3: Shortwave infrared baking principle and curing times.

This diagram illustrates how shortwave infrared energy penetrates various layers of paint (sheet metal, primer, medium coating, topcoat) to cure from the inside out, along with approximate curing times for different stages like rust-resistant primer, putty, topcoat, and varnish.

4. **Cool Down:** After use, unplug the lamp and allow it to cool down completely before handling or storing.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your DATOUBOSS Infrared Paint Curing Lamp.

- **Cleaning:** Ensure the lamp is unplugged and completely cool before cleaning. Use a soft, dry cloth to wipe down the exterior. Do not use abrasive cleaners or solvents. Keep the reflector and heating elements free from dust and debris.
- **Lamp Tube Replacement:** The halogen tubes have a service life of approximately 10,000 hours. If a tube burns out or its performance degrades, it can be replaced.
 - Unplug the lamp and allow it to cool completely.
 - Carefully remove the protective grille.
 - Gently unclip the old halogen tube from its sockets.
 - Insert the new tube, ensuring it is securely seated. Avoid touching the glass part of the new tube with bare hands, as oils can reduce its lifespan. Use a clean cloth or gloves.
 - Reattach the protective grille.

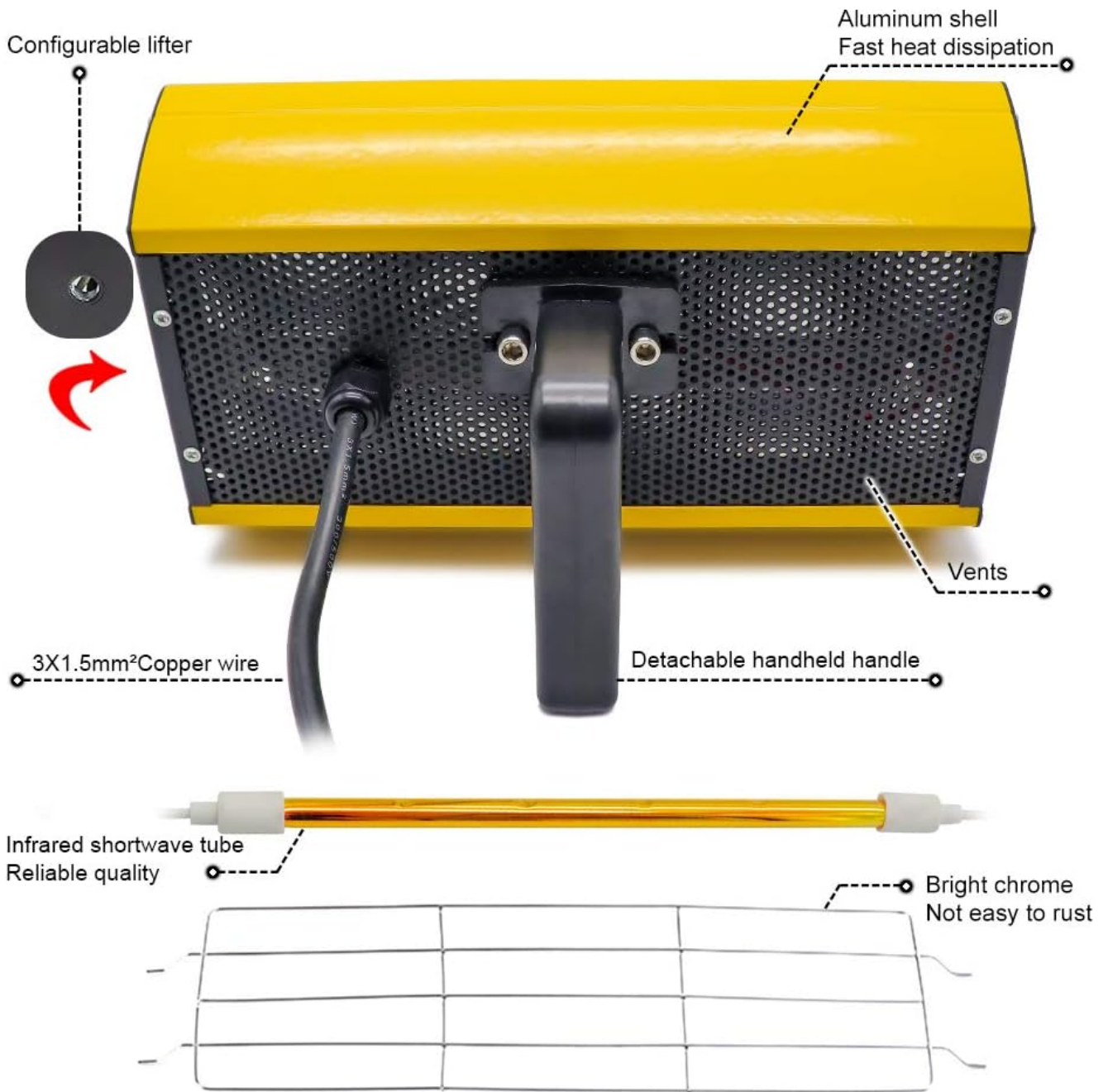


Figure 7.1: Lamp components including infrared shortwave tube.

This image provides an exploded view of the lamp's components, including the aluminum shell, vents, detachable handheld handle, copper wire, bright chrome reflector, and the infrared shortwave tube, which is the primary heating element.

- **Storage:** Store the lamp in a dry, cool place, away from direct sunlight and moisture, when not in use.

8. TROUBLESHOOTING

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

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
|---------|----------------|----------|

| Problem | Possible Cause | Solution |
|---|---|--|
| Lamp does not turn on. | No power supply, loose connection, faulty outlet, or burnt-out lamp tube. | <p>Check if the lamp is properly plugged into a working electrical outlet.</p> <p>Verify the power outlet is functional by plugging in another device.</p> <p>Inspect the power cord and plug for any visible damage.</p> <p>Check if the lamp tubes are securely seated or if any are burnt out (replace if necessary).</p> |
| Insufficient heat output. | Incorrect distance from surface, dirty reflector, or aging lamp tubes. | <p>Adjust the distance to the curing surface to be within the recommended range.</p> <p>Ensure the reflector is clean and free of dust or paint residue.</p> <p>Consider replacing aging lamp tubes if they are nearing the end of their service life.</p> |
| Lamp overheats or emits smoke/unusual odor. | Blocked ventilation, internal fault, or initial burn-off. | <p>Immediately unplug the lamp.</p> <p>Ensure all ventilation holes are clear and not obstructed.</p> <p>If the issue persists after ensuring proper ventilation, discontinue use and contact customer support. (A small amount of smoke/odor may occur during first use as protective coatings burn off).</p> |

9. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact DATOUBOSS customer service through the retailer where you purchased the product or visit the official DATOUBOSS brand store online.

[Visit the DATOUBOSS Store on Amazon](#)