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› Jebao SOW-8 Wave Maker Flow Pump with Controller User Manual

Jebao SOW-8

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Model: SOW-8

1. INTRODUCTION

The Jebao SOW-8 Wave Maker is designed to create natural wave patterns and water movement within marine and reef aquariums, promoting a healthy and dynamic environment for aquatic life. This model incorporates an improved motor for enhanced durability and significantly quieter operation compared to previous versions.

Key features include:

- Suitable for both fresh and saltwater aquariums.
- Easy installation and maintenance.
- Silent design with a secure magnetic bracket.
- Integrated night sensor that automatically detects low light conditions and adjusts pump speed.
- One-touch feed mode to temporarily slow the pump for 10 minutes during feeding.

2. SAFETY INFORMATION

- Always disconnect power before performing any maintenance, installation, or cleaning.
- Ensure hands are dry when handling electrical components.
- Do not operate the pump out of water.
- Keep the controller and power adapter away from water splashes.
- Regularly inspect the power cord and connections for any signs of damage. Do not use if damaged.
- This product is intended for indoor use only.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- Jebao SOW-8 Wave Maker Pump
- Controller
- AC Power Adapter



Figure 3.1: All components included with the Jebao SOW-8 Wave Maker. This image displays the wave maker pump, the control unit, and the AC power adapter with its associated cabling.

4. SETUP INSTRUCTIONS

4.1. Pump Placement

1. Identify the desired location for the wave maker inside your aquarium. Consider areas that will provide optimal water circulation without directly blasting corals or sensitive inhabitants.
2. Place the wave maker pump inside the aquarium, ensuring it is fully submerged.
3. Position the external magnet on the outside of the aquarium glass, directly opposite the internal magnetic bracket of the pump. The strong magnetic force will secure the pump in place.
4. Adjust the angle of the pump as needed to direct water flow.



Figure 4.1: Side view of the Jebao SOW-8 wave maker pump, illustrating its compact design and the magnetic mounting system for secure placement on aquarium glass.

4.2. Electrical Connections

1. Connect the cable from the wave maker pump to the designated port on the controller. Ensure the connection is firm and secure.
2. Connect the AC power adapter to the controller.
3. Plug the AC power adapter into a standard electrical outlet. The controller display should illuminate, indicating power.

5. OPERATING INSTRUCTIONS

5.1. Controller Overview

The controller allows for various adjustments to the wave maker's operation. Familiarize yourself with the buttons and indicators:

- **MODE/NIGHT:** Cycles through different wave modes and activates/deactivates the night sensor.
- **SPEED/FEED:** Adjusts pump speed and activates the feed mode.
- **W.LL/LOCK:** Locks the current settings to prevent accidental changes.
- **MASTER/SLAVE Switch:** Used when operating multiple wave makers to designate one as the master and others as

slaves for synchronized operation.

- **Light Sensor:** Automatically detects ambient light levels.
- **Speed Indicators:** Displays the current pump speed setting.
- **Mode Indicators (W1, W2, Else, H, C):** Shows the currently active wave mode.

5.2. Wave Modes

Press the **MODE/NIGHT** button to cycle through the available wave patterns:

- **W1 (Wave Mode):** Creates a single, consistent wave pattern.
- **W2 (Sine Wave Mode):** Generates a smoother, sine wave-like flow pattern.
- **Else (Random Mode):** Produces varied and unpredictable flow patterns, simulating natural ocean currents.
- **H (Constant Flow Mode):** Provides a steady, non-pulsating water flow.
- **C (Feed Mode):** This is not a continuous mode. When activated, the pump slows down for 10 minutes to allow for feeding without food being immediately swept away.

5.3. Speed Adjustment

In any active wave mode (W1, W2, Else, H), press the **SPEED/FEED** button to increase or decrease the pump's output speed. Observe the speed indicators on the controller to select the desired flow intensity.

5.4. Night Sensor

The built-in light sensor automatically detects when aquarium lights are off. When activated, the pump will automatically slow down to a gentler flow, mimicking natural nighttime conditions. To toggle the night sensor function, press and hold the **MODE/NIGHT** button.

5.5. Feed Mode

To activate the feed mode, briefly press the **SPEED/FEED** button. The pump will reduce its speed for approximately 10 minutes, providing a calm period for fish to feed. After 10 minutes, the pump will automatically resume its previous operating mode and speed.

5.6. Locking Settings

To prevent accidental changes to your chosen settings, press and hold the **W.LL/LOCK** button until the lock indicator illuminates. To unlock, press and hold the button again.

6. MAINTENANCE

6.1. Cleaning the Pump

Regular cleaning of the wave maker is essential for optimal performance and longevity. Algae and debris can accumulate on the impeller and housing, reducing efficiency and potentially causing noise.

1. **Disconnect Power:** Always unplug the power adapter from the electrical outlet before removing the pump from the aquarium.
2. **Disassemble:** Carefully remove the front cage and impeller cover. The impeller can then be gently pulled out.
3. **Clean Components:** Use a soft brush or cloth to remove any algae, detritus, or calcium buildup from the impeller, impeller shaft, and pump housing. A solution of white vinegar and water can help dissolve stubborn calcium deposits.
4. **Rinse:** Thoroughly rinse all components with clean, dechlorinated water.
5. **Reassemble:** Carefully reassemble the pump, ensuring all parts are correctly seated.



Figure 6.1: Front view of the Jebao SOW-8 wave maker, showing the impeller and protective cage. Regular cleaning of these components is crucial for maintaining performance.

6.2. Regular Inspection

Periodically check the power cord and all connections for any signs of wear, fraying, or damage. Ensure the magnetic bracket maintains a strong hold on the aquarium glass.

7. TROUBLESHOOTING

• Pump Not Turning On:

- Check all electrical connections to ensure they are secure.
- Verify that the power adapter is plugged into a working electrical outlet.
- Ensure the controller is properly connected to both the pump and the power adapter.

• Reduced Flow or Unusual Noise:

- Disconnect power and remove the pump from the aquarium.
- Inspect the impeller for any obstructions (e.g., sand, debris, snails) and clean thoroughly as described in Section 6.1.

- Check for air bubbles trapped within the pump housing. Gently shake the pump while submerged to release them.
- **Controller Display Not Working:**
 - Ensure the power adapter is correctly connected and receiving power.
 - Try unplugging the power adapter for 30 seconds and then plugging it back in to reset the controller.
- **Night Sensor Not Activating:**
 - Ensure the night sensor function is enabled on the controller (refer to Section 5.4).
 - Check that the light sensor on the controller is not obstructed and is exposed to ambient light.

8. SPECIFICATIONS

Feature	Specification
Brand	Jebao
Model Name	SOW-8
Material	Plastic
Item Weight	0.76 Kilograms (1.67 pounds)
Pump Dimensions (approx.)	Ø66mm x 88mm
Voltage	1.5 Volts (Controller input/sensor voltage)
Included Components	Wave Maker, AC Adapter, Controller
Specific Uses	Indoor Aquarium Water Circulation



Figure 8.1: Size comparison of Jebao SOW wave maker models, including the SOW-8 with approximate dimensions of Ø66mm x 88mm.

9. WARRANTY AND SUPPORT

9.1. Warranty Information

The Jebao SOW-8 Wave Maker comes with a **180-day warranty** from the date of purchase. This warranty covers manufacturing defects under normal use. Please retain your proof of purchase for warranty claims.

9.2. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Jebao customer support through their official website or the retailer from whom the product was purchased. Provide your model number (SOW-8) and a detailed description of the issue for faster service.

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