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- › [Jebao](#) /
- › [Jebao SOW Wave Maker Flow Pump with Controller \(SOW-3\) User Manual](#)

## Jebao SOW-3

# Jebao SOW Wave Maker Flow Pump with Controller (SOW-3)

User Instruction Manual

## INTRODUCTION

Thank you for purchasing the Jebao SOW Wave Maker Flow Pump. This device is designed to create natural wave patterns and water circulation in marine reef aquariums, promoting a healthy environment for your aquatic inhabitants. The SOW series features improved motor technology for quieter operation and enhanced durability.

This manual provides detailed instructions for the safe installation, operation, and maintenance of your SOW-3 wave maker. Please read it thoroughly before use to ensure optimal performance and longevity of the product.

## SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the product:

- Ensure your hands are dry before handling the power adapter or controller.
- Do not operate the pump if the power cord or plug is damaged.
- Never attempt to disassemble or repair the pump or controller yourself. Refer to qualified personnel for service.
- Ensure the pump is fully submerged in water before powering on. Running dry can cause damage.
- Always unplug the pump from the power outlet before performing any maintenance, cleaning, or when placing/removing hands from the aquarium water.
- This product is designed for indoor use only and for marine or freshwater aquariums. Do not use for other purposes.
- Keep out of reach of children.

## PACKAGE CONTENTS

Verify that all items are present in the package:

- Jebao SOW-3 Wave Maker Pump Unit
- External Controller

- Power Adapter (100-240V, 50/60Hz)
- Magnetic Mounting Bracket
- User Manual (this document)

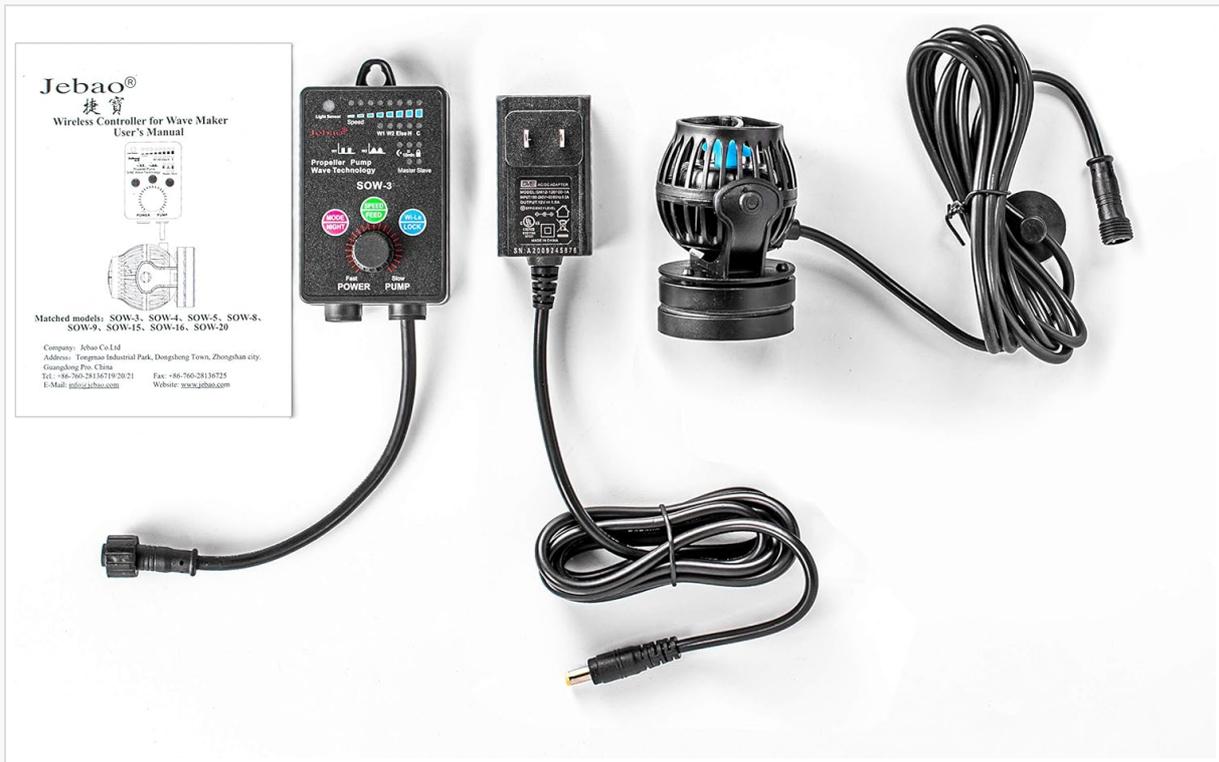


Image: All components included in the Jebao SOW-3 Wave Maker package, showing the pump, its external controller, the power adapter, and the instruction manual.

## PRODUCT OVERVIEW

The Jebao SOW-3 consists of a compact pump unit with a propeller and a magnetic mounting system, connected to an external controller that manages its operation modes and flow intensity.



Image: Detailed view of the Jebao SOW-3 pump's front, highlighting the propeller and protective intake cage.



Image: The back of the Jebao SOW-3 pump, showing its label with model information and electrical ratings.

## SETUP AND INSTALLATION

### 1. Mounting the Pump:

- Identify the inner and outer parts of the magnetic mounting bracket.
- Place the pump unit with the inner magnet inside the aquarium, ensuring it is fully submerged.
- Align the outer magnet on the exterior glass of the aquarium, directly opposite the inner magnet. The strong magnetic force will secure the pump in place.

- Position the pump to direct flow as desired. The pump head can be rotated to adjust the flow direction.

## 2. Connecting the Controller:

- Connect the pump's cable to the designated port on the controller. Ensure the connection is secure and the threaded nut is tightened.
- Connect the power adapter to the controller.
- Plug the power adapter into a suitable electrical outlet. It is recommended to use a drip loop to prevent water from traveling along the cord to the outlet.

## OPERATING INSTRUCTIONS

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The Jebao SOW controller allows for various modes and adjustments:

### Controller Functions:

- **SPEED/FEED Button:**
  - Short press to cycle through flow intensity levels (indicated by LED lights).
  - Long press (approx. 3 seconds) to activate the 10-minute feed mode, slowing the pump for feeding. The "FEED" LED will illuminate. The pump will resume normal operation after 10 minutes.
- **MODE/NIGHT Button:**
  - Short press to cycle through different wave modes (e.g., constant flow, pulse, sine wave). Refer to the controller's LED indicators for the active mode.
  - Long press (approx. 3 seconds) to activate/deactivate the night sensor. When active, the pump will automatically slow down when tank lights go out (indicated by the "NIGHT" LED).
- **WIFI/LOCK Button:**
  - This model (SOW-3) typically does not feature Wi-Fi control.
  - Long press to lock/unlock the controller settings, preventing accidental changes.

### Wave Modes:

The SOW series offers various wave patterns to simulate natural ocean currents. Experiment with different modes and intensity settings to find the ideal flow for your aquarium and its inhabitants.

- **W1 Mode (Wave Mode):** Creates a wave effect by varying flow. Adjustable by speed.
- **W2 Mode (Sine Wave Mode):** Produces a smooth, continuous sine wave pattern.
- **Else Mode (Random Mode):** Generates a random flow pattern, mimicking natural, unpredictable currents.
- **H Mode (Constant Flow Mode):** Provides a steady, continuous flow at a set intensity.
- **C Mode (Shift to Flow Mode):** For use with two pumps, creating alternating flow.

## MAINTENANCE

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Regular maintenance ensures the longevity and efficient operation of your wave maker.

### 1. Cleaning the Pump:

- **Frequency:** Clean the pump every 1-3 months, or more frequently if you notice reduced flow or increased noise.
- **Procedure:**

- a. Unplug the pump from the power outlet.
- b. Remove the pump unit from the aquarium.
- c. Carefully detach the front cage and impeller assembly.
- d. Rinse all components under clean running water to remove debris.
- e. For stubborn calcium deposits or algae, soak the components in a mild acid solution (e.g., vinegar or citric acid solution) for several hours, then scrub gently with a soft brush.
- f. Rinse thoroughly with fresh water before reassembling and returning to the aquarium.

2. **Cable and Connections:** Periodically inspect the power cord and all connections for any signs of wear, damage, or corrosion. Ensure all connections are dry and secure.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump not running	No power; loose connection; impeller jammed; pump failure.	Check power outlet and connections. Clean impeller and pump housing. If still not working, contact support.
Reduced flow	Impeller or pump intake clogged with debris/algae; incorrect mode/speed setting.	Clean the pump and impeller thoroughly. Adjust speed setting on the controller.
Excessive noise/vibration	Air trapped in pump; impeller dirty/damaged; improper mounting.	Ensure pump is fully submerged and free of air bubbles. Clean impeller. Check magnetic mounting for secure placement.
Controller not responding	Power issue; controller locked.	Check power connection. Long press the LOCK button to unlock the controller.

## SPECIFICATIONS (SOW-3)

Feature	Detail
Model	SOW-3
Power Source	Corded Electric
Voltage	12 Volts (DC)
Maximum Flow Rate	Up to 21 Gallons Per Minute (approx. 3000 L/H)
Recommended Tank Size	12-30 Gallons (approx. 500L to 3000L)
Dimensions (Pump)	Approx. 2.0" Dia. x 2.5" long
Material	Stainless Steel (internal components), Plastic (housing)
Features	Silent design, Magnetic bracket, Night sensor, One-touch feed mode

## WARRANTY AND SUPPORT

This Jebao SOW-3 Wave Maker is covered by a standard manufacturer's warranty against defects in

materials and workmanship. Please retain your proof of purchase for warranty claims.

For technical support, troubleshooting assistance beyond this manual, or warranty inquiries, please contact your retailer or visit the official Jebao website for contact information. Do not attempt to repair the unit yourself, as this may void the warranty.

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*Information in this manual is subject to change without notice.*