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> [Jebao](#) /

> [Jebao SOW-3N Wave Maker Flow Pump Instruction Manual](#)

Jebao SOW-3N

Jebao SOW-3N Wave Maker Flow Pump Instruction Manual

1. PRODUCT OVERVIEW

The Jebao SOW-3N Wave Maker Flow Pump is designed to create natural water movement in marine reef aquariums. This model features an improved motor for enhanced durability and quieter operation compared to previous series. It is suitable for both fresh and saltwater environments.

Key Features:

- Suitable for fresh and saltwater aquariums.
- Easy installation and maintenance.
- Silent design with magnetic bracket for secure placement.
- Night sensor: Automatically detects low light conditions and slows the pump.
- One-touch feed mode: Temporarily slows the pump for 10 minutes during feeding.
- Power: 100-240V 50/60Hz US plug.
- Flow Rate: 500L (132gal) to 3000L (792gal).
- Recommended for 12-30 gallon aquariums.

2. SAFETY INFORMATION

- Always unplug the device from the power outlet before performing any maintenance or cleaning.
- Ensure your hands are dry when handling the power plug and controller.
- Do not operate the pump if the power cord or plug is damaged.
- Keep the controller dry and away from water splashes.
- This product is designed for indoor use only.
- Do not attempt to repair the device yourself; contact qualified personnel for service.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Jebao SOW-3N Wave Maker Pump
- Controller
- AC Adapter
- Magnetic Mounting Bracket
- User Manual



Figure 1: All components included in the package.

4. SETUP

4.1 Mounting the Wave Maker

1. Attach the magnetic mounting bracket to the back of the wave maker pump.
2. Place the wave maker pump inside the aquarium at the desired location.
3. Align the external magnet on the outside of the aquarium glass with the internal magnet of the pump. The strong magnetic force will hold the pump securely in place.



Figure 2: Close-up of the wave maker pump with its magnetic base.



Figure 3: Side view of the pump, illustrating its compact size and magnetic attachment point.

4.2 Connecting the Controller

1. Connect the wave maker pump's cable to the designated port on the controller. Ensure the connection is secure and the screw-on cap is tightened.
2. Connect the AC adapter to the power input port on the controller.
3. Plug the AC adapter into a suitable power outlet.



Figure 4: Back of the pump with model information and connection point.

4.3 Placement in Aquarium

Position the wave maker to achieve optimal water circulation and wave patterns for your specific aquarium setup. The magnetic mount allows for easy repositioning without submerging your hands.



Figure 5: Dimensions of the SOW-3N pump for optimal placement consideration.

5. OPERATING INSTRUCTIONS

5.1 Controller Overview

The controller features an LED display and several buttons for easy operation:

- **S Button:** Mode selection / Time setting.
- **M Button:** Cycle through wave modes / Adjust settings.
- **F Button:** Feeding mode activation.
- **+ Button:** Increase flow rate / frequency.
- **- Button:** Decrease flow rate / frequency.

5.2 Wave Modes

The controller offers various wave modes to simulate natural water conditions:

- **Constant Flow Mode:** Provides a steady, continuous water flow.
- **Classic Wave Mode:** Generates regular wave patterns.
- **Nutrition Transmission Wave:** Slow and smooth wave for proper food distribution.
- **Random Mode:** Varies flow patterns to mimic unpredictable ocean currents.

- **Night Mode:** Automatically reduces pump speed during low light conditions.

5.3 Adjusting Flow Rate and Frequency

Use the + and - buttons to adjust the intensity and frequency of the water flow within the selected wave mode. Refer to the controller's display for current settings.

5.4 Feeding Mode

Press the **F** button to activate the 10-minute feeding mode. The pump will slow down significantly to prevent food from being quickly drawn into filtration systems, allowing fish to feed effectively. The pump will automatically resume its previous operating mode after 10 minutes.

5.5 Night Sensor

The integrated night sensor automatically detects when aquarium lights go out. In night mode, the pump's speed will be reduced to a lower, constant flow to simulate calmer nighttime conditions, minimizing stress for your aquatic inhabitants.

6. MAINTENANCE

6.1 Cleaning the Pump

Regular cleaning is essential for optimal performance and longevity of your wave maker:

1. Unplug the pump from the power source.
2. Carefully remove the pump from the aquarium.
3. Disassemble the pump housing and remove the impeller.
4. Clean the impeller and pump housing thoroughly with a soft brush and clean water to remove any algae, debris, or calcium buildup.
5. Rinse all components with clean water and reassemble the pump.
6. Reinstall the pump in the aquarium and reconnect to power.

6.2 Regular Checks

Periodically inspect the power cord, connections, and magnetic bracket for any signs of wear, damage, or corrosion. Ensure all connections are secure.

7. TROUBLESHOOTING

If you encounter issues with your Jebao SOW-3N Wave Maker, refer to the following common problems and solutions:

- **Pump Not Running:**
 - Check if the power adapter is securely plugged into the outlet and the controller.
 - Ensure the pump cable is properly connected to the controller.
 - Verify that the power outlet is functional.
- **Weak or Intermittent Flow:**
 - Clean the pump and impeller as described in the Maintenance section. Debris can obstruct the impeller.
 - Check the selected flow rate and frequency settings on the controller; increase if necessary.

- Ensure the pump is not in feeding mode or night mode, which reduce flow.

- **Unusual Noise:**

- Clean the impeller and check for any foreign objects lodged inside the pump.
- Ensure the pump is securely mounted and not vibrating against the aquarium glass.

- **Controller Display Not Working:**

- Check all power connections to the controller.
- If the issue persists, contact customer support.

8. SPECIFICATIONS

Feature	Specification
Model Number	SOW-3N
Manufacturer	Jebao
Flow Rate	792 Gallons Per Minute (Max)
Power Source	AC Power (100-240V 50/60Hz)
Item Weight	454 g (1 Pound)
Material	Plastic, Stainless Steel
Dimensions	2.0" Dia. x 2.5" long (Pump)
Included Components	Controller, AC adapter, Pump

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official Jebao website or contact your retailer. Keep your purchase receipt as proof of purchase.

