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› [SUNPOW 48kHz Ultrasonic Retainer Cleaner \(Model M9D3202-US\) Instruction Manual](#)

SUNPOW M9D3202-US

SUNPOW 48kHz Ultrasonic Retainer Cleaner (Model M9D3202-US) Instruction Manual

Brand: SUNPOW | Model: M9D3202-US

1. INTRODUCTION

The SUNPOW 48kHz Ultrasonic Retainer Cleaner is designed for thorough and hygienic cleaning of various dental appliances and small personal items. Utilizing high-frequency ultrasonic waves and UV-C light, this device effectively removes particles, dirt, and odors, ensuring your items are not just visually clean but also hygienically maintained. This manual provides essential information for safe and effective use of your cleaner.



Image 1: The SUNPOW Ultrasonic Retainer Cleaner, showcasing its compact design and versatility for cleaning items like dentures, retainers, and toothbrush heads.

2. PRODUCT FEATURES

- **Professional 48,000Hz Ultrasonic Cleaning:** High-frequency waves reach hidden crevices, effectively removing particles and dirt from retainers, dentures, and aligners.
- **Efficient 5 UV Lights:** Integrated with 5 advanced UV LED lights for enhanced cleanliness, eliminating odors and turbidity caused by stains.
- **Dual Cleaning Modes:** Offers a 5-minute quick clean for daily refresh and a 10-minute deep clean for thorough cleaning.
- **220ml Capacity & Quiet Operation:** Large capacity accommodates various dental appliances. Low-noise operation and non-slip rubber feet ensure stable use.
- **Transparent Viewing Lid & Intuitive One-Touch Control:** Allows monitoring of the cleaning process. Features a bright digital display and simple buttons for easy operation.



Image 2: Visual representation of the 48kHz high-frequency ultrasonic vibration, highlighting its effectiveness in cleaning various dental items.



Image 3: Illustration of the 5 UV-C lights providing 360-degree sterilization, emphasizing 99.9% bacteria elimination. A safety tip notes UV lights automatically turn off when the lid is opened.

Image 4: The control panel with digital display, showing options for a 5-minute quick clean and a 10-minute deep clean.

3. SETUP

1. **Unpack:** Carefully remove the ultrasonic cleaner and all accessories from the packaging.
2. **Placement:** Place the unit on a stable, flat, and dry surface near a power outlet.
3. **Connect Power:** Plug the DC 12V/2A adapter into the back of the unit and then into a standard AC100-240V 50/60Hz power outlet.
4. **Add Water:** Open the lid and fill the stainless steel tank with cold water. Do not exceed the 'MAX' fill line indicated inside the tank. For enhanced cleaning, a small amount of cleaning solution (specifically designed for dental appliances) can be added.
5. **Insert Items:** Place your dental appliances (retainers, dentures, mouthguards, aligners) or other items into the tank. The included drain basket can be used for smaller items like jewelry or toothbrush heads.

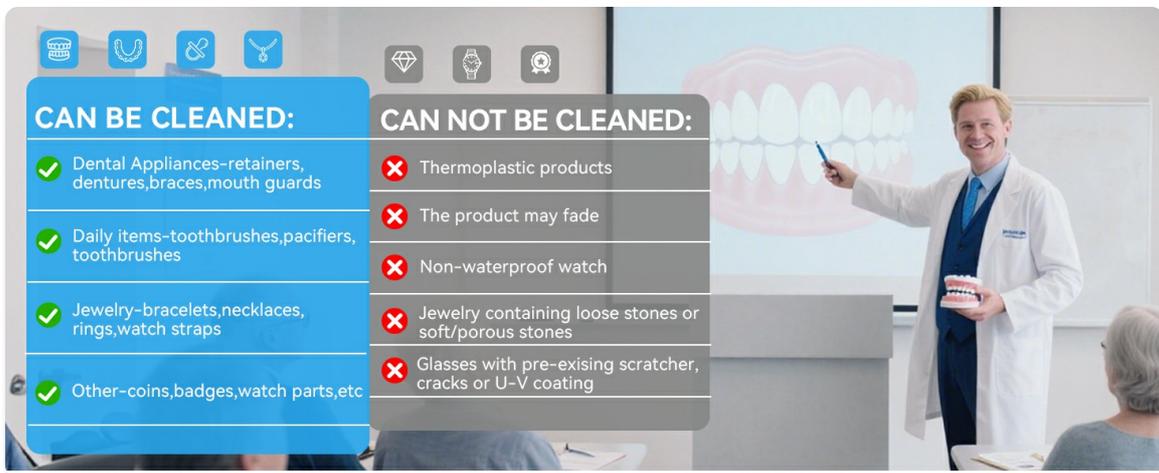


Image 5: Step-by-step visual instructions for setting up and using the cleaner, from adding water to removing cleaned items.

4. OPERATING INSTRUCTIONS

1. **Power On:** Ensure the unit is plugged in and the lid is closed. The digital display will show '000'.
2. **Select Cleaning Mode:** Press the power button once to activate the 5-minute ultrasonic cleaning with UV light mode. The display will show '300' (300 seconds). Press the power button a second time for the 10-minute deep clean mode, showing '600' (600 seconds).
3. **Start Cleaning:** The cleaning cycle will begin automatically after selecting a mode. The digital display will count down the remaining cleaning time.
4. **Automatic Shut-off:** The device will automatically turn off once the selected cleaning program is complete.
5. **Remove Items:** Open the lid. Use the provided tweezers to carefully remove the cleaned items from the tank.
6. **Rinse:** Rinse the cleaned items under running water.

Important Notes:

- The UV light automatically turns off if the lid is opened during operation to protect your eyes.
- For items with heavy stains or buildup, use the 10-minute deep clean mode for 2-3 cycles.
- After 3 times of continuous work, the machine needs to rest for 10 minutes to prevent device malfunction or burnout.

Your browser does not support the video tag.

Video 1: Official product video demonstrating the SUNPOW Dental Ultrasonic Retainer Cleaner Machine in operation, highlighting its features and cleaning process.

5. MAINTENANCE

1. **Empty Water:** After each use, pour out the water from the tank. Do not pour water out from the back side.

2. **Clean Tank:** Wipe the inner stainless steel tank with a soft cloth to remove any residue.
3. **Exterior Cleaning:** Clean the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners.
4. **Storage:** Store the unit in a cool, dry place when not in use.

Ultrasonic Retainer Cleaner



1. Fill with cold water only and do not exceed the max line
2. Always add water before turning the device on

Image 6: Detailed views of the cleaner's internal components, including the 304 stainless steel liner, transparent lid, and 220ml tank capacity, emphasizing durability and ease of cleaning.

6. TROUBLESHOOTING

- **Device not turning on:** Ensure the power adapter is securely plugged into both the unit and the wall outlet. Check if the outlet is functional.
- **No ultrasonic action/sizzling sound:** Verify that water is added to the tank. Ensure the unit has rested for 10 minutes if used continuously for 3 cycles.
- **Items not cleaning effectively:** Ensure items are fully submerged in water. Consider using the 10-minute deep clean mode or adding a suitable dental cleaning solution.
- **UV light not working:** The UV light will not activate if the lid is open. Ensure the lid is securely closed during operation.

7. SPECIFICATIONS

Feature	Detail
Product Dimensions	4.52 x 4.17 x 4.52 inches
Item Model Number	M9D3202-US
Weight	1.15 Pounds
Power Supply	AC100-240V 50/60Hz
Rated Voltage	DC 12V/2A

Watt Hour	25W
Ultrasonic Frequency	48kHz
UV Wavelength	254nm
Tank Capacity	220ml
Manufacturer	SUNPOW

8. SAFETY WARNINGS AND PRECAUTIONS

- Do not use incorrect voltage.
- Always add water first before turning on the machine.
- Do not allow the water in the tank to drop below 1" from the bottom. Do not run it empty or over the Max line.
- Avoid getting water inside the housing; water on electronics will cause damage.
- Do not use liquid bleach in the tank.
- Do not use hot water which may damage dental appliances and will cause overheating of the device and may damage the transducer.
- Do not pour water out from the back side.
- Do not put corrosive, flammable or ammoniated liquids in the tank, as they may ignite and/or cause injury, and can cause permanent damage to your ultrasonic cleaner.
- Do not use the tank to soak the appliances with chemical solutions overnight or over extended time.
- Unplug the power cord when the device is not in use.
- Do not use wet hand to touch the plug or the outlet.
- Never run the device if the plug or adaptor or the cord is damaged.
- Keep it away from children or people without proper ability to handle the unit.

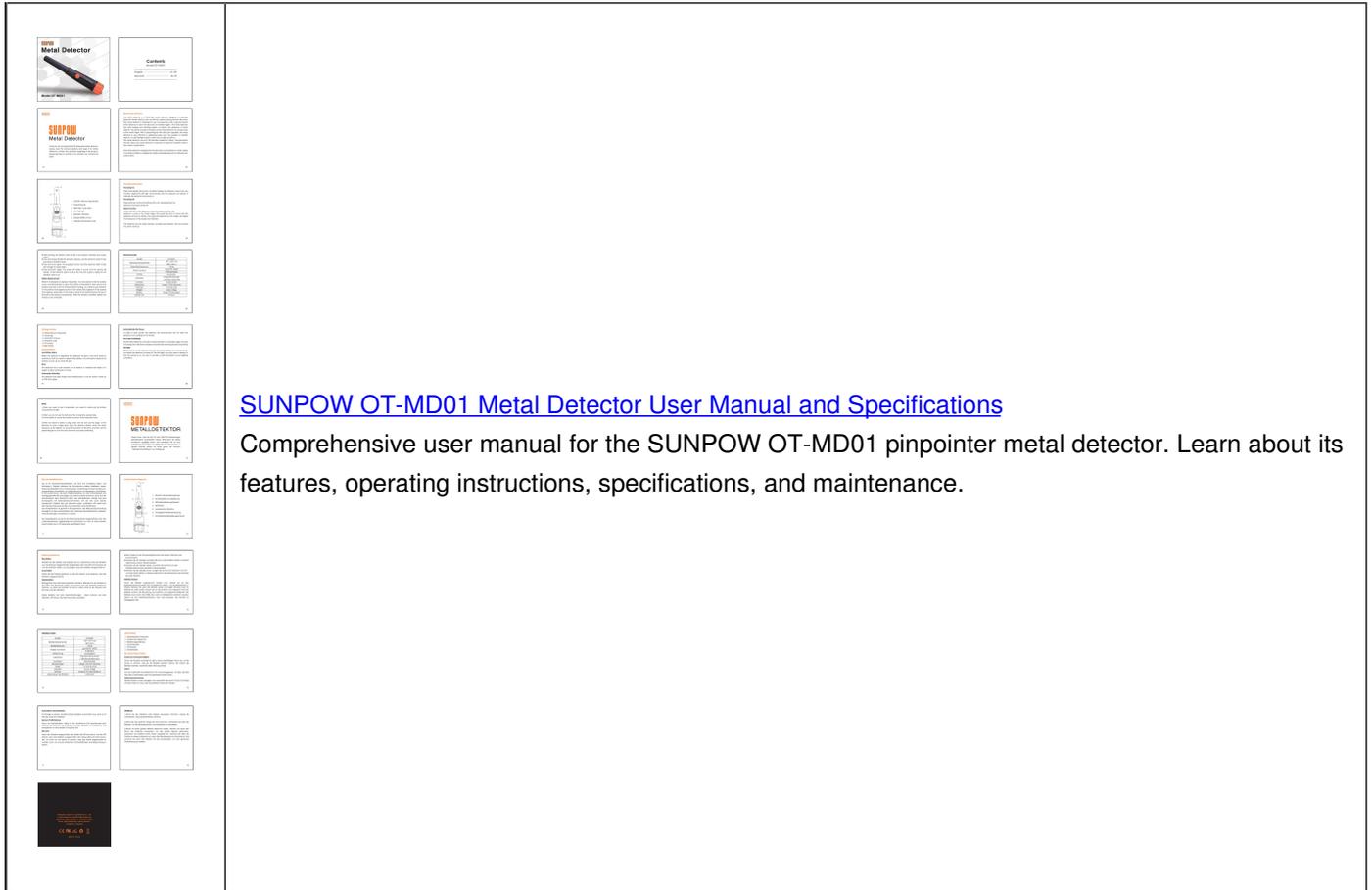
9. WARRANTY & SUPPORT

SUNPOW offers a 365-day warranty for this product. For any issues or inquiries, please contact customer support. Additionally, protection plans are available for purchase:

- **2-Year Protection Plan:** Available for \$3.99.
- **3-Year Protection Plan:** Available for \$5.99.
- **Complete Protect:** A monthly plan covering eligible past and future purchases for \$16.99/month.

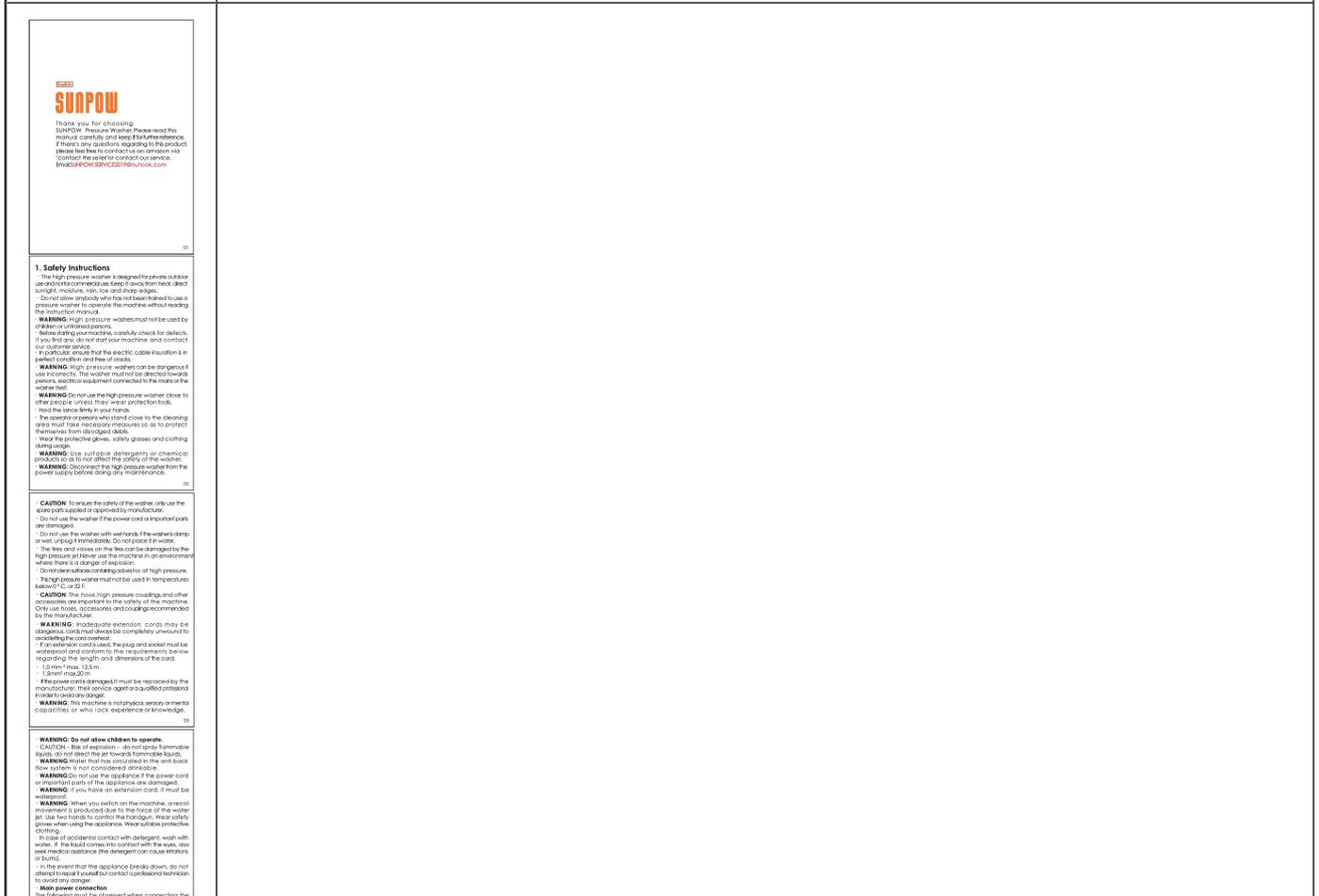
For further assistance, please refer to the contact information provided in your product packaging or visit the official SUNPOW website.

Related Documents - M9D3202-US



[SUNPOW OT-MD01 Metal Detector User Manual and Specifications](#)

Comprehensive user manual for the SUNPOW OT-MD01 pinpointer metal detector. Learn about its features, operating instructions, specifications, and maintenance.



High pressure washer to the power supply.
It is recommended that the electric supply to the machine should complete residual current device which interrupts the current if the leakage current exceeds 30 mA for.

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CONNECTING TO THE WATER NETWORK

WARNING

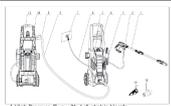


According to the current guidelines, the washer must never be connected without a system separator on the potable water system. Washer that passes through a system separator is classified as non-potable.

WARNING:
Always connect the system separator to the water supply and never directly to the device!

Water Pressure	10bar
Max. pressure	15bar
Flow	2.5l/min
Power	2200W

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- 1 High Pressure Gun with Adjustable Nozzle
- 2 High Pressure Hose
- 3 Trigger connector
- 4 Trigger switch
- 5 Machine body
- 6 Cord
- 7 Plug
- 8 Hot water hose
- 9 Water Tap
- 10 Quick water connector
- 11 Wheel
- 12 Detergent Nozzle
- 13 Detergent Nozzle
- 14 2P Quick Connect nozzle
- 15 1P Quick Connect nozzle
- 16 2P Quick Connect nozzle
- 17 8P Quick Connect nozzle
- 18 8P Quick Connect nozzle (back)
- 18.5 Soap Quick Connect nozzle (back)

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2. First time instructions

This section will explain in details how to make the high pressure washer ready for use.

SAFETY DEVICES

The on-board safety valve can reduce pressure if it exceeds a set level. Additionally, there is a trigger gun lock function. At the beginning of the manual, the trigger gun features a locking device. When the knob is activated, the trigger gun cannot be operated.



THERMAL SENSOR

A thermal sensor protects the motor against overloading. The machine will restart after a few minutes when the thermal sensor has cooled.

3. Operation instructions

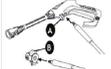
3.1 Connection of garden hose

Open the water inlet coupling (B) right on to the water inlet. Note: The inlet filter (A) must always be fitted in the water inlet. If the filter is not fitted, fine stone or other impurities can damage the pump valves.

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3.2 Mounting of high pressure hose

Attach the high pressure hose to the trigger gun and machine. Detach the high pressure hose by pressing the pin (A) or button (B).



3.3 Mounting of lance and nozzle

Push the lance into the trigger gun. When inserted, turn it. **Caution:** Make sure the lance is properly fixed to the gun. Attach the nozzle.

Caution: When attaching the nozzle the button (A) on the nozzle should come out again. Check before activating the trigger that the nozzle is properly fixed.



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IMPORTANT! Only use water without any impurities. If there is a risk of sand particles in the hot water line from your own well, an additional filter should be used. Let the water run through the water hose before connecting it to the machine to prevent sand and dirt from penetrating the machine.

Note: Check that the filter is fitted in the water inlet pipe and that it is not clogged.
Connect the water hose to the water supply by means of the back connector (B) (water, max. pressure: 10 bar, max. temperature: 60°C).
Turn on the water.

3.4 Start/stop of the machine

The trigger gun (1) and lance are affected by a trust locking operation. Therefore, always hold it firmly with both hands.

IMPORTANT! Don't touch the lance or gun. Check that the machine is in upright position.

NOTE: Do not touch the machine in high pressure areas. The trigger gun (1) is locked.

Activate the trigger of the trigger gun (1) and let the water run until all air has escaped from the water hose. Press the Start/Stop switch (4).

Activate the trigger of the trigger gun (1). Always adjust the distance and thus the pressure of the nozzle to the surface, which is to be cleaned.

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Do not cover the machine during operation or use it in a room without adequate ventilation!

NOTE: If the machine is left or not used for 5 minutes, it must be switched off on the start/stop switch (4) "0". Press the Start/Stop switch (4) "0". Disconnect the electrical plug (10) from the socket.

Shut off the water supply and activate the trigger of the trigger gun (1) to relieve the machine of pressure.

When releasing the trigger of the trigger gun (1), the machine automatically stops. The machine will start again when you reactivate the trigger gun (1).

3.4 Adjustable Nozzle

The pressure can be adjusted by adjusting nozzle.

WARNING: Do not go to the under operation to avoid that the hand hits the jet.



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3.7 Detergent Nozzle

When you want to spray detergent, don't forget to equip the detergent nozzle.

3.8 Inlet indicator diagram

(Gun hook assembly)



2) Lance assembly



3) Detergent bottle assembly



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4) Quick connector structure on the machine body. All the Accessories can be stored on the machine.



4. After use instructions

The machine should be stored in a cool, dry place. Pump, hose and accessories should always be emptied of water prior to storing as follows:

Stop the machine. Press the start/stop switch "0" and detach water hose, high pressure hose and lance.

Restart the machine and activate the trigger of the trigger gun. If the machine will not release water, then the trigger gun (1) stop the machine, unplug and wrap up hose and cord.

Roll up trigger gun, lance, nozzle and other accessories to the rollers at the machine. The rollers can be used for storage of the hose and cord. All accessories can be stored on the water inlet.

WARNING: Never start up a frozen machine. Frost damages are not covered by the guarantee!

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SUNPOW Pressure Washer User Manual and Operation Guide

Comprehensive user manual for the SUNPOW Pressure Washer, covering safety instructions, operation, maintenance, and troubleshooting. Learn how to safely and effectively use your SUNPOW pressure washer for various cleaning tasks.

5. Environmental protection
Old appliances contain valuable materials that can be recycled. Please arrange for the proper recycling of old appliances. Please dispose your old appliances using appropriate collection systems.

6. Maintenance, cleaning and repair
WARNING Always disconnect the electrical plug from the socket prior to maintenance or cleaning.
To ensure a long and problem-free working life, please take the following advice: Wash out water hose, high pressure hose, spray lance and accessories before mounting.
Clean the connectors of dust and sand. Rinse the detergent spraying attachment after use. Clean the nozzles.
Any repair should always be made in an authorized workshop with original spare parts.

6.1 Cleaning of the filter
Clean the water inlet filter regularly once a month or more frequently according to use. Carefully remove the filter with a screwdriver and clean it. Check that it fits before re-mounting it.
The inlet filter must always be fitted inside the water inlet pipe to filter out sand, lime scale and other impurities, as they will damage the pump motor.
CAUTION: Failure to fit the filter will invalidate the warranty.

6.2 Cleaning of air vents
The machine should be kept clean so as to let cooling air pass freely through the machine vents.

6.3 Greasing of couplings
To ensure an easy connection and that a ring does not dry out, the couplings should be greased regularly.

7. Breakdown service

Symptom	Cause	Recommendation
The machine does not start	The machine is not plugged in. The battery is not fully charged. The electrical plug is not inserted correctly.	Plug the machine in. To be recharged, charge the battery. Insert the plug correctly.
Nothing happens	The pump is empty. The air vent is blocked. The high pressure hose is not connected correctly. The spray lance is not inserted correctly.	Check that the pump is correctly filled. Clean the air vent. Check that the high pressure hose is correctly connected. Check that the spray lance is correctly inserted.
The machine does not work properly	The battery is not fully charged. The battery is not inserted correctly. The battery is not fully charged. The battery is not inserted correctly.	Recharge the battery. Check the battery connection. Charge the battery. Check the battery connection.

Runs too slow	Too low pressure. The battery is not fully charged.	Recharge the battery. Check the battery connection.
Nothing happens	The battery is not fully charged. The battery is not inserted correctly. The battery is not fully charged. The battery is not inserted correctly.	Recharge the battery. Check the battery connection. Charge the battery. Check the battery connection.
The machine is not working properly	The battery is not fully charged. The battery is not inserted correctly. The battery is not fully charged. The battery is not inserted correctly.	Recharge the battery. Check the battery connection. Charge the battery. Check the battery connection.
The machine is not working properly	The battery is not fully charged. The battery is not inserted correctly. The battery is not fully charged. The battery is not inserted correctly.	Recharge the battery. Check the battery connection. Charge the battery. Check the battery connection.

CARE AND MAINTENANCE
Your Pressure Washer is an example of superior design and craftsmanship. The following suggestions will help you care for your Pressure Washer so you can enjoy it for years.

- Handle the Pressure Washer gently and carefully. Dropping it can damage circuit boards and cause the Pressure Washer to stop working.
- Use the Pressure Washer only in normal temperature environments. Always use electric cables with the electric device. Do not use it in rain or snow.
- Keep the Pressure Washer clean after using, otherwise it will stop working.
- Keep Pressure Washer with a strong cloth (recommended) to keep it out of use. Do not use harsh chemicals to clean Pressure Washer.

Environmental protection
Notes about the ingredients (REACH)
You will find current information about the ingredients of:

- The packaging material can be recycled. Please arrange for the environmentally appropriate disposal of the packaging.
- Old appliances contain valuable recyclable materials that should be recycled properly. Please arrange for the environmentally appropriate disposal of the old device.
- Electrical and electronic devices often contain components which could potentially pose a danger to human health and the environment if disposed of incorrectly. However, these components are necessary for the proper operation of the device. Devices marked with this symbol must not be disposed of with regular household rubbish.

Cleaning operations which produce city waste water, e.g. engine washes, underbody washes, may only be carried out using washing stations equipped with oil and detergent separators.
Work with detergents must only be performed on liquid tight work surfaces with a connection to the sewer system. Do not let release detergent into water or earth.



[SUNPOW HP1172 Electric Pressure Washer User Manual](#)

This user manual provides comprehensive instructions for the SUNPOW HP1172 Electric Pressure Washer, detailing safety precautions, product features, assembly, operation, maintenance, and troubleshooting for optimal use.



[SUNPOW SP-JS01 16000mAh Lithium Jump Starter User Manual](#)

User guide for the SUNPOW SP-JS01 16000mAh Lithium Jump Starter, covering safety warnings, technical specifications, product description, what's in the box, LED indicators, charging instructions, jump starting procedures, and troubleshooting.



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1	Introduction
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6	Operation
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INTRODUCTION

The SUNPOW OT-MD02 Metal Detector is a high-performance, professional-grade metal detector designed for hobbyists and enthusiasts. It features advanced search coils, a sensitive control panel, and a durable, ergonomic design for long-lasting use in various environments.

FEATURES

- Advanced Search Coils
- Sensitive Control Panel
- Durable, Ergonomic Design
- Multiple Search Modes
- Adjustable Sensitivity
- LED Display
- Rechargeable Battery

OPERATION

1. Turn on the power switch.

2. Select the desired search mode using the mode selector.

3. Adjust the sensitivity level according to the ground conditions.

4. Sweep the search coil over the ground.

5. Listen for audio signals and observe the LED display for target identification.

ADJUSTMENTS

Sensitivity: The sensitivity level can be adjusted using the sensitivity knob. Higher sensitivity is suitable for areas with low mineral content, while lower sensitivity is recommended for high-mineral areas to prevent false signals.

Mode Selection: The mode selector allows you to choose between different search modes, such as All Metal, Iron Only, and Discriminate. Refer to the mode selection chart for details.

TROUBLESHOOTING

Problem	Cause	Solution
No signal	Low sensitivity	Increase sensitivity level
False signals	High sensitivity	Decrease sensitivity level
Weak signal	Low battery	Recharge or replace battery
Intermittent signal	Coil not centered	Keep coil centered and consistent depth

MAINTENANCE

1. Clean the search coil and control panel after each use.

2. Store the detector in a dry, protected environment.

3. Regularly check the battery level and charge it as needed.

4. Inspect the search coil for damage and replace it if necessary.

WARRANTY

The SUNPOW OT-MD02 Metal Detector is covered by a 2-year warranty against manufacturing defects. For more information, please contact our customer support team.

CONTACT US

SUNPOW
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Email: support@sunpow.com

[SUNPOW OT-MD02 Metal Detector User Manual](#)

Comprehensive user manual for the SUNPOW OT-MD02 metal detector, detailing its features, operation, specifications, and troubleshooting tips for hobbyists and enthusiasts.

Smart Air Pump
User Manual



Model: NW

[SUNPOW NW01 Smart Air Pump User Manual](#)

Comprehensive user manual for the SUNPOW NW01 Smart Air Pump, detailing features, operation, charging, safety precautions, and troubleshooting for inflating car tires, motorcycle tires, bicycle tires, and balls.