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# SOLAR HOT WATER SERVICE MANUAL



**HO'A SOLAR INC.**

C-34811

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# Fun Facts

## *Did You Know?*

- Your solar heating operation is automatic and does not require you to do anything.
- Your solar hot water system will reduce your electric bill up to 40%?
- The State of Hawai’i hopes achieve 100% clean energy by 2045.

## *At Home Care*

It is good to flush (drain) your tank once a year. To do this, locate the drain valve at the bottom of your tank, unscrew the safety cap on the drain valve and connect a garden hose to the drain valve.

Open the valve stem with a flat heat screw driver and let the water run for a minute.

This should flush out any sediment gathering at the bottom of your tank and can help prolong the lifespan of your tank.

# Solar Hot Water Preventive Maintenance Service

Get the most out of your system; with maintenance, every 3-5 years you can maximize your investment with your system's longevity!

- Anode Rod replacement for tank (your tanks only protection, used up after 3-5 years)
- Replace safety valve on tank (safety is important – keeps equipment from damage)
- Clean off collector glazing of dirt or mildew (let the sun shine through)
- Re-coat insulated pipes on roof (protection from UV rays)
- Insulate any necessary pipes (up to 10 ft.)
- New pressure relief valve for panels
- New filter cartridge (if applicable)
- Check mounting and penetrations
- Repair any bad pipe connections
- Check solar circulation operation
- Check electric heating operation
- Flush Tank
- Flush Panels

# Troubleshooting of Solar Hot Water System

## Timer "Little Gray Box"



To maximize savings, the timer should be used to operate as an electric back-up to your solar hot water system to "time" the hours of the day you require hot water, for example, on a cloudy day or before/after the sun is out. You can adjust the settings by loosening the set screws on the timer pins on the yellow timer wheel. Keep in mind the wheel turns at 24 hours/day and the pointer is in a fixed position. When you find the best times of day for you, lock those pins back down on the timer wheel.



You may also choose not to have the timer go on automatically and turn it on only as you wish with the manual switch. You should leave at least one "off" pin on the wheel should you forget to turn it back to off. If you have a power outage, you must reset the time on your timer. To do this, pull out on the yellow wheel, turn to the correct time, and let go of the wheel as it will re-engage with the gears, as it is spring loaded.



# Troubleshooting of Solar Hot Water System Continued...

## Reset Button

When turning your timer “on” wait time for hot water is no more than half an hour. If you do not have hot water by this time, it could be the water in the tank heated high enough to trip or pop-out the “reset button” located at the thermostat.

The thermostat and heating element are located behind the upper cover plate of the tank, sometimes behind a small piece of insulation. Protected by a plastic cover to avoid shock, the reset button is dark red in color and seen in the circle cut out of the plastic cover.

**With the timer in the “off” position,** press in the reset button. If you feel or hear a click, turn the timer back to the “on” position and water should start heating up.

## When to Call for Service

If you have tried listed troubleshooting steps with your electric back-up timer and reset button with no success of hot water, call for service.

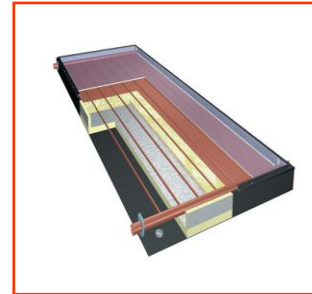
### 808-261-9740

As of your installation date, \_\_\_\_\_, non-warranty related service call fees are....

- \$165 up to an hour of service
- \$165 for every additional hour after initial hour

Please keep in mind all fees and rates are subject to change at any time.

# Manufacturer’s Warranty



Under conditions of normal use and service SunEarth Collector, Abosobers, ICS and Drainback Products are warranted to the original, or subsequent user, for a period of 10 years from the date of sale to be free of defects in material and workmanship.



Under conditions of normal use and service SunEarth 80 and 120 Universal Side/Top Connect Model Products are warranted to the original, or subsequent user, for a period of 6 or 12 years from the date of sale to be free of defects in material and workmanship.

SunEarth Panel Warranty Expires:

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SunEarth Water Heater Warranty Expires:

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Terms and Conditions: Please note each and all manufacturer’s warranties are subject to a \$25 warranty processing fee payable to Ho’a Solar Inc.