

- D. Periodically check wiring and wire connection to be sure wiring is not damaged, frayed and that all terminals and connections are tight and in compliance with codes (See "Making Wire Connections").

## DRAINING AND STORAGE INSTRUCTIONS

If RV is to be stored during winter months, the water heater must be drained to prevent damage from freezing.

1. Turn off electrical power to water heater either at the switch from the electrical element or a breaker.
2. Shut off gas supply to water heater.
3. Turn off pressure pump on water system.
4. Open both hot and cold water faucets.
5. Remove anode rod from tank. The anode rod is accessible at the front of the water heater as shown in Figure 12.
6. Follow RV manufacturer's instructions for draining entire water system.

**NOTE:** Be certain to refill water heater with water and remove all air from tank and lines before re-lighting or before turning on electrical power.

## WINTERIZING

If your water heater plumbing system is equipped with a bypass kit, use it to close off the water heater, drain the water heater completely and leave the water heater closed off (out of the system) in the bypass position particularly if you are introducing antifreeze into the plumbing system. Antifreeze can be very corrosive to the anode rod creating premature failure and heavy sediment in the tank. If the plumbing system is not equipped with a bypass kit, and you intend to winterize by adding antifreeze to the system, remove the anode rod (storing it for the winter) and replace it with a 3/4" drain plug.

## ANODE PROTECTION

The tank in this water heater is protected by a magnesium or aluminum anode to prolong the life of the tank by absorbing the corrosive action of hot water. Under normal use, the anode rod will deteriorate and because of this, we recommend it be replaced yearly.

**NOTE:** Water with high levels of iron and/or sulfate will increase the rate of deterioration; therefore, more frequent replacement may be required. If anode rod is mostly eaten away, replace it with a new one. (See Figure 12).

To prevent a water leak when replacing the anode rod, a pipe thread sealant approved for potable water (such as Teflon Tape) must be applied to the threads of the anode rod. Proper application of a thread sealant will not interfere with the anode's tank protection.

Operating the water heater without proper anode protection will decrease tank life and will void your warranty on the tank.

**NOTE:** Tank is drained by removing anode rod; see the "Draining and Storage Instructions" section of this manual.

To extend anode life, drain water from tank whenever RV is not being used. Avoid any extended time of non-use with water in tank. Also, refer to section on Winterizing.

## ▲ WARNING

Do not replace the anode rod with any non-Suburban accessory part, such as an "add-on" electric heating element. Items such as these are not approved to be installed in Suburban products. They could create an unsafe condition and will also void all warranties.

## ODOR FROM HOT WATER SYSTEM

Odor from the hot water system is not a service problem and many water supplies contain sufficient amounts of sulphur to produce an odor. The odor is similar to rotten eggs and is often referred to as "sulphur water". It is not harmful - only unpleasant to smell. Sulphur water can be caused by a chemical action or by bacteria.

The solution to eliminate is chlorination of the water system. Add about six (6) ounces of chlorinated common household liquid bleach to each 10 gallons in the water tank. Then run the chlorinated water throughout the system, opening each faucet one at a time until you smell the chlorine. Let the RV sit for a few days and the chlorine should take care of the problem. Then you will need to take care of the chlorine. Remove the chlorine by flushing the system with fresh water. This may take several attempts. You may consider adding a filtering system that removes chlorine and prevents sulphur water. If the sulphur or rotten egg smell continues, flush the system once again as described above and replace anode rod as necessary.

## PRESSURE RELIEF VALVE

The temperature and pressure relief valve is designed to open if the temperature of the water within the heater reaches 210°F, or if the water pressure in the heater reaches 150 pounds. Recreational vehicle water systems are closed systems and during the water heating cycle the pressure build-up in the water system will reach 150 pounds. When this pressure is reached, the pressure relief valve will open and water will drip from the valve. This dripping will continue until the pressure is reduced to below 150 pounds, and the valve closes. This condition is normal and does not indicate a defective relief valve.

## ▲ WARNING

Do not place a valve between the relief valve and the tank. Do not plug the relief valve under any circumstances.

## WATER WEEPING OR DRIPPING FROM PRESSURE RELIEF VALVE

You may experience water weeping or dripping from your water heater's Pressure and Temperature (P & T) Relief Valve when your water heater is operating. Water weeping or dripping from the P & T Valve does not always mean the P & T Valve is defective. As water is heated, it expands. The water system in a recreational vehicle is a closed system and does not allow for the expansion of heated water. When the pressure of the water system exceeds the relieving point of the P & T Valve, the valve will relieve the excess pressure.

Suburban recommends that a check valve not be installed directly at the inlet to the water heater tank. This will increase weeping of the pressure relief valve.

## ▲ WARNING

Do not remove or plug the relief valve.

One way to reduce the frequency of this occurrence is to maintain an air pocket at the top of the water heater tank. This air pocket will form in the tank by design. However, it will be reduced over time by the everyday use of your water heater.

To replenish this air pocket:

1. Turn off water heater.
2. Turn off cold water supply line.
3. Open a faucet in the RV.
4. Pull out on the handle of the Pressure Relief (P & T) Valve and allow water to flow from the valve until it stops.
5. Release handle on P & T Valve - it should snap closed.
6. Close faucet and turn on cold water supply; as the tank fills, the air pocket will develop.

Repeat this procedure as often as needed to reduce the frequency of the weeping of the P & T Valve. If the weeping persists after following this procedure, you may elect to install an expansion or accumulator tank in the cold water line between the tank and check valve to relieve the pressure caused by thermal expansion. Contact your local dealer for assistance.

## REMOVING WATER HEATER

1. Shut off gas supply and disconnect gas supply line from water heater.
2. On DEL, DEL and DEM models, disconnect 120 V.A.C. supply at junction box on heater. On DEC and DELC models, unplug water heater from wall outlet.
3. On all models, disconnect 12 V.D.C. power supply at junction box on heater.
4. On all models disconnect all wires at module board.
5. Shut off water supply. Drain water from tank following instructions under "Draining and Storage".
6. Disconnect hot and cold water lines from water heater.
7. Remove screws or nuts securing control housing to framed opening.
8. Slide heater out. To reinstall, follow instructions in manual under "Installation Instructions".

## ▲ WARNING

For your safety, ALL repairs and/or maintenance of unit should be performed by your dealer or a qualified service technician.

## PARTS AND SERVICE

Contact a conveniently located recommended Suburban Service Center. Describe to them the nature of your problem, make an appointment, if necessary, and provide for delivery of your RV with the appliance installed.

To obtain information on locating a local service agency, contact:

Suburban, An Aircel Brand  
Customer Service Department  
6076 Broadway Street  
Dayton, TN 37321  
(423) 775-2131 Ext. 7101  
[www.Aircel.com/Suburban](http://www.Aircel.com/Suburban)

# Suburban Sw6del Water Heater Manual

**S Nieto**



## **Suburban Sw6del Water Heater Manual:**

**Electric Water Heater Installation Manual** Edison Electric Institute. Wiring Committee,1947      *Water heaters--buying and use tips* ,1984      **Solar Water Heater Manual** ,1985\*      Water Heaters Esco Institute,2020-02-01 A large majority of homes in the US have a storage type water heater that provides domestic hot water These water heaters can be electric or gas fired and require regular maintenance and servicing This training module covers the installation maintenance and service of residential and light commercial gas and electric storage water heaters This manual provides students and practicing technicians with the information and knowledge necessary to understand typical operation of both gas and electric water heaters It is full of color illustrations and includes end of lesson review questions that provide students and practicing technicians with the information and knowledge necessary to accurately and safely install service and maintain storage type water heaters Main topics include safety and hazard awareness sizing components and controls installation maintenance and troubleshooting The end of the booklet contains fill in the blank worksheets that review the content of the entire manual      *Water Heaters* American Gas Association. Committee on Gas Appliance Installation and Service Manuals,1949      *Gas Appliance Service Manual* American Gas Association. Committee on Gas Appliance Installation and Service Manuals,1949      Solar Water Heater Manual Centre for Agricultural Mechanization and Rural Technology (Tanzania),1984      **Gas Water Heater Service Manual** ,1998      Do-it-yourself Solar Water Heater Manual California. Department of Housing and Community Development,1985\*      **A Design Manual for Solar Water Heaters** Alan Goldberg,1977      *Batch Solar Water Heater Construction and Installation Manual* W. S. Baker,Wykes, Tom,Oregon State University. Extension Service,1986      **A Solar Water Heater Workshop Manual** Ecotope Group,Ken Eklund,Ken Smith,1978      *Instruction Manual for Solar Hot Water Heater Unit* Carolyn Casciato,Carolyn Krieg,Clackamas CETA Solar Project,1979      *Solar Water Heater Installation Guidelines* Massachusetts. Solar Action Office,1978      Solar Water Heater Installation Guidelines Massachusetts. Executive Office of Consumer Affairs. Renewable Resources Division,1979      **The Thrift Automatic Gas Water Heater** ,1935      *Building a Solar Water Heater* Arnie Valdez,Akira Kawanabe,1977      Water Heaters Manual (First Edition) Alan Coleman,Phil Crowther,Alun Salisbury,CORGI (Great Britain),2003-10      **Domestic Instantaneous Water Heaters** CITB-ConstructionSkills. Building Engineering Services,2007      Water Heaters Manual ,1974

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