

INSTALLATION, OPERATION and USER'S MANUAL

SUBURBAN ADVANTAGE DIRECT VENT GAS WATER HEATER

DIRECT SPARK IGNITION | ELECTRIC ELEMENT | 12V RELAY



MODELS:
SAW6D
SAW6DE
SAW6DEL



A Division of AIRXCEL



CERTIFIED UNDER:
ANSI Z21.10.1-2017 / CSA 4.1-2017

FOR INSTALLATION IN RECREATIONAL VEHICLES AND MOBILE HOUSING

⚠ WARNING

Installation of this appliance must be made in accordance with the written instructions provided in this manual. No agent, representative or employee of Suburban or other person has the authority to change, modify or waive any provision of the instructions contained in this manual.

⚠ WARNING

FIRE, EXPLOSION AND ASPHYXIATION HAZARD

Improper adjustment, alteration, service, maintenance or installation can cause serious injury or death.

Read and follow instructions and precautions in this manual. Installation and service must be performed by a qualified service agency or the gas supplier.

⚠ WARNING

Be sure the power is "OFF" to the water heater ignition system during any type of refueling and while vehicle is in motion or being towed.

⚠ FREEZE WARNING

Drain water heater if subject to freezing temperatures.

⚠ WARNING

FIRE OR EXPLOSION HAZARD

If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- WHAT TO DO IF YOU SMELL GAS
 - Evacuate all persons from the vehicle.
 - Shut off the gas supply at the gas container or source.
 - Do not touch any electrical switch, or use any phone or radio in the vehicle.
 - Do not start the vehicle's engine or electric generator.
 - Contact the nearest gas supplier or qualified service technician for repairs.
 - If you cannot reach a gas supplier or qualified service technician, contact the nearest fire department.
 - Do not turn on the gas supply until the gas leak(s) has been repaired.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

An odorant is added to the gas used by this water heater.

INSTALLER: affix these instructions to or adjacent to water heater.

OWNER: retain these instructions and warranty for future reference.

All technical and warranty questions should be directed to the company listed on the warranty or rating plate which came with your water heater.

SAFETY WARNINGS

⚠ WARNING

It is imperative that the water heater tank be filled with water before operating the water heater. Operation of the water heater without water in the tank may result in damage to the tank and/or controls. This type of damage is not covered by the limited warranty.

Hydrogen gas may result if you have not used this heater for two weeks or more. HYDROGEN GAS IS EXTREMELY FLAMMABLE. To reduce the risk of injury under these conditions, open the hot water faucet for several minutes at the kitchen sink before you use any electrical appliance connected to the hot water system. If hydrogen is present, you probably will hear an unusual sound such as air escaping through the pipe as the water begins to flow.

Hydrogen gas may be present even after water has been drained from the tank. Open faucet at sink and allow system to vent for several minutes (5-10 minutes).

Do not smoke or have any open flame near the open faucet. Do not attempt to light pilot or main burner. On DSI models, be sure the switch is "OFF".

Should overheating occur, or the gas supply fail to shut off, shut off the manual gas valve to the appliance before shutting off the electrical supply.

Do not use this appliance if any part has been submerged under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been submerged under water.

Do not alter the operation of your water heater nor change the design/construction of your water heater. Accessories are being marketed for RV products which we do not recommend. For your safety, only factory authorized parts are to be used on your water heater.

Periodically inspect the vent for obstructions or presence of soot. Soot is formed whenever combustion is incomplete. This is your visual warning that the water heater is operating in an unsafe manner. If soot is present, immediately shut the water heater down and contact your dealer or a qualified service person.

⚠ WARNING

When considering add-on rooms, porch or patio, attention must be given to the venting of your water heater. For your safety, do not terminate the vent on your water heater inside add-on rooms, screen porch or onto patios. Doing so will result in products of combustion being vented into the rooms or occupied areas.

Never operate the heater if you smell gas. Do not assume that the smell of gas in your RV is normal. Any time you detect the odor of gas, it is to be considered life threatening and corrected immediately. Extinguish any open flames including cigarettes and evacuate all persons from the vehicle. Shut off gas supply at LP gas bottle. (See the Safety notice on front cover of this manual.)

NOTE: Always open both the cold and hot water faucets when filling vehicle water tank to allow air pockets to be forced out of the water heater. When water flows from the faucets, close both faucets.

Do not store or use combustible materials or liquids near or adjacent to this heater. The appliance shall not be installed in any location where flammable liquids or vapors are likely to be present.

The thermostat on your water heater is not adjustable. It is a temperature sensing limit designed to maintain a water temperature of 130°F (54°C). Water temperatures over 130°F (54°C) can cause severe burns instantly or death from scalds; therefore, be careful when using hot water. Children, disabled and elderly are at highest risk of being scalded. Always feel water before bathing or showering.

INSTALLATION REQUIREMENTS

⚠ WARNING

Installation of this appliance must be made in accordance with the written instructions provided in this manual. No agent, representative or employee of Suburban or other person has the authority to change, modify or waive any provision of the instructions contained in this manual.

NOTE: Do not install the water heater with the door facing toward the forward end of the coach. See Figures 1, 2 and 3.

⚠ CAUTION

If possible, do not install the water heater so the vent can be covered or obstructed when any door on the trailer is opened. If this is not possible, then the travel of the door must be restricted in order to provide a 6" minimum clearance between the water heater vent and any door whenever the door is opened.

⚠ CAUTION

Due to the differences in vinyl siding, this appliance should not be installed on vinyl siding without first consulting with the manufacturer of the siding or cutting the siding away from the area around the appliance vent.

In any installation in which the vent of this appliance can be covered due to the construction of the RV or some special feature of the RV such as slide out, pop-up etc., always insure that the appliance cannot be operated by shutting off all electrical and gas supply to the appliance.

Do not install this appliance so the vent terminates below a slide-out. This appliance is not to be installed under any overhang. It must be free and clear of any type overhang.

This installation must conform with the requirements of the authority having jurisdiction or in the absence of such requirements with the latest edition of the National Fuel Gas Code ANSI Z223.1/NFPA 54; and the latest edition of the American National Standard for Recreational Vehicles-NFPA 1192. In Canada the installation should conform with the following standards:

A. For installation in Recreational Vehicle

1. Gas - CSA standard CAN/CSA Z240.4.2-08 Installation Requirements for Propane Appliances and Equipment in Recreational Vehicles.
2. Electrical - CSA standard CAN/CSA Z240.6.2-08/C22.2 No. 148-08 Electrical Requirements for Recreational Vehicles.
3. Plumbing - CSA standard CSA Z240.3.2 Plumbing Requirements for Recreational Vehicles.

B. For installation in Mobile Housing

1. Gas - CSA standard CSA Z240.4.1 Installation Requirements for Gas Burning Appliances and Equipment in Mobile Homes.
2. Electrical - CSA standard CSA C22.1 Canadian Electrical Code Part 1.
3. Plumbing - CSA standard CSA Z240.3.1 Plumbing Requirements for Mobile Homes.

For installation in mobile housing, refer to **Figure 18** for Direct Vent Terminal Clearances.

The appliance shall be disconnected from the gas supply piping system during any pressure testing of the system in excess of 1/2 PSIG.

The appliance and its gas connections shall be leak tested before placing the appliance in operation.

All air for combustion must be supplied from outside the structure. Air for combustion must not be supplied from occupied spaces.

INSTALLATION INSTRUCTIONS

CUTOUT DIMENSIONS

CAPACITY	SEE FIGURE 4		DEPTH
	A	B	
6 GALLON	12-5/8"	16-1/4"	17-5/8"
MINIMUM CLEARANCE FROM COMBUSTIBLE CONSTRUCTION			
Sides: 0"	Top: 0"		
Back: 0"	Bottom: 0"		

Minimum clearance from combustible construction on sides, top, floor and rear = 0 inches. Provide room for access to rear of heater for servicing.

Provide an opening flush with floor in outer wall of coach as shown. Wall of coach should be framed as shown in **Figure 4**. Maintain inside dimensions listed above. Do not install on carpet unless the carpet is covered by a metal or wood shield covering the entire area underneath the water heater. If you prefer, you may cut away the carpet from this area. If water heater is installed where leakage of connections or tank will damage adjacent area, install a drain pan which can be drained to outside of coach, under water heater.

1. Position heater into framed opening as illustrated in **Figure 5**.
2. On mesa or yoder type sidewalls, flatten the wall area around the opening.
3. Install chocks, one on each side of water heater, as illustrated in **Figure 5**.

MAKING WATER AND GAS CONNECTIONS

IMPORTANT

Allow flexibility in water and gas lines so you can pull unit forward through wall one inch past skin.

4. Water connections are made at the rear of the water heater. See **Figure 10**. Connect the hot and cold water lines to the 1/2" female pipe fitting provided on rear of tank. These fittings are marked "HOT" and "COLD".

IMPORTANT

Use a pipe thread compound suitable for potable water or pipe thread tape on all connections to assure they will not leak. For ease of removal, it is suggested that a pipe union be installed in each water line.

5. Fill tank with water. Open both hot and cold water faucets to expel air from tank. When tank is filled and water flows from faucets, close both faucets and check all connections for leaks.

⚠ CAUTION

If you use air pressure to check for leaks, the pressure must not exceed 30 PSI (in accordance with NFPA 1192).

NOTE: After leak testing, drain water from tank.

6. Connect a 3/8" gas supply line to the 3/8" flare fitting at gas valve located in the control housing. When making the gas connection, hold the gas fitting on the valve with a wrench when tightening the flare nut. Failure to hold fitting secure could result in a gas leak due to fitting being damaged.

NOTE: It will be necessary to remove the grommet from the control housing, make the gas connection at the valve, then reinstall grommet.

⚠ WARNING

It is imperative that grommet and gas line through grommet be caulked air tight. If not tightly sealed, moisture and potential harmful flue products could vent through opening and into living area of trailer. (See Figure 9.)

7. Turn on gas and check all fittings and connections for leaks, using a soap and water solution. Correct even the slightest leak immediately.

⚠ WARNING

Never check for leaks with an open flame. Turn on the gas and apply soapy water to all joints to see if bubbles are formed.

8. The module board is not secured to the water heater. It is to be permanently mounted by the installer. The module board must be mounted so it is accessible for service yet out of way of children. It should be located in a place where it cannot be subjected to moisture, cleaning chemicals, flammable vapors and liquids, etc. The board and all wiring to the board must be protected in order to prevent damages and accidental contact with these parts. The module board may be mounted with two (2) No. 6 x 5/8 screws or other suitable hardware.

MAKING ELECTRICAL CONNECTIONS - 12 VOLTS D.C.

9. Refer to **Figure 6** for location of D.C. junction box.
10. The electrical connections must be made in accordance with local codes and regulations. In the absence of local codes and regulations, refer to the latest edition of the National Electrical Code NFPA 70. In Canada, the electrical installation should conform with CSA standard CAN/CSA Z240.6.2-08/C22.2 No. 148-08 Electrical Requirements for Recreational Vehicles and CSA C22.1 Canadian Electrical Code Part 1 when installing the unit in recreational vehicles and mobile homes respectively.
11. Make the 12 Volt D.C. electrical connections following the applicable model wiring diagrams illustrated on **pages 12 and 13**. If the power supply is to be from a converter, we recommend that the converter system be wired in parallel with the battery. This will serve two purposes:
 - A. Provide a constant voltage supply
 - B. Filter any A.C. spikes or volt surges

We recommend insulated terminals be used for all electrical connections.

MAKING ELECTRICAL CONNECTIONS - 120 VOLTS A.C.

12. Refer to **Figure 5** for location of A.C. junction box.
13. The electrical connections must be made in accordance with local codes and regulations. In the absence of local codes and regulations, refer to the latest edition of the National Electrical Code NFPA 70. In Canada, the electrical installation should conform with CSA standard CAN/CSA Z240.6.2-08/C22.2 No. 148-08. Electrical requirements for Recreational Vehicles and CSA C22.1 Canadian Electrical Code Part 1 when installing the unit in recreational vehicles and mobile homes respectively.

14. Check rating plate and applicable model wiring diagram on **pages 12 and 13** before proceeding. Install a fused safety switch or circuit breaker of adequate capacity between heater and electrical power source. Attach the black and white wires from the fused switch or breaker to corresponding colored wires in heater junction box. A green wire from a well grounded source must be attached to the green ground screw or nut in the junction box.

⚠ CAUTION

Before applying the 120 VAC power to the water heater junction box, be sure the switch for electric element is in the "OFF" position.

⚠ WARNING

Before the switch for the electric element is turned to the "ON" position, the water heater tank must be filled with water. See "Safety Warnings".

TO COMPLETE INSTALLATION:

15. Bend all flanges 90° along scored lines. **See Figure 6A**

IMPORTANT

To prevent water leaks, caulk thoroughly around opening, including bend slots (**See Figure 6**).

16. Push unit against caulking, secure 4 corner brackets to coach with #8 3/4" round head screws (not furnished) or equivalent. **See Figure 6B**. Complete the installation by inserting the same type of #8 screws in holes provided around the flange of the water heater housing.

17. Attach access door. **See Figure 6**.

- a. Snap hinge pin (**Figure 7A**) into clip (**Figure 7B**).
- b. Slide door (**Figure 7C**) onto hinge pin.
- c. Slide hinge pin into cover, snapping into clip at same time (**Figure 7D**)

NOTE: To remove hinge pin, support access cover and apply force to corner of hinge pin shown in **Figure 7E**.

18. Disconnect unit and its individual shut-off valve from gas supply line during any pressure testing of system in excess of 1/2 PSIG (3.4 kPa, 14" water column [W.C.]). Do not set inlet pressure higher than maximum indicated on rating plate of gas valve (13" W.C.). Isolate unit from gas supply line by closing its individual manual shutoff valve during any pressure testing \leq 1/2 PSIG.

⚠ WARNING

Never check for leaks with an open flame. Turn on the gas and apply soapy water to all joints to see if bubbles are formed.

GAS OPERATING INSTRUCTIONS

SAFETY INFORMATION

FOR YOUR SAFETY READ BEFORE OPERATING

⚠ WARNING

If the user of this appliance fails to maintain it in the condition in which it was shipped from the factory or if the appliance is not used solely for its intended purpose or if appliance is not maintained in accordance with the instructions in this manual, then the risk of a fire and/or the production of carbon monoxide exists which can cause personal injury, property damage or loss of life.

If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

Before operating water heater, be sure tank is filled with water. See "Safety Warnings".

- A. This appliance does not have a pilot. It is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.

- B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

- Evacuate all persons from the vehicle.
- Shut off the gas supply at the gas container or source.
- Do not touch any electrical switch, or use any phone or radio in the vehicle.
- Do not start the vehicle's engine or electric generator.
- Contact the nearest gas supplier or qualified service technician for repairs.
- If you cannot reach a gas supplier or qualified service technician, contact the nearest fire department.
- Do not turn on the gas supply until the gas leak(s) has been repaired.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.
- This is an automatic gas valve, no adjustments are necessary. Do not attempt to repair the gas valve. This may result in a fire or explosion.
- Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.
- Before operating water heater, check the location of the vent to make sure it will not be blocked by the opening of any door on the trailer. If it can be blocked, do not operate the water heater with the door open.

1. STOP! Read the safety information provided.
2. Turn off all electric power to the appliance.
3. Turn "OFF" gas supply.
4. Wait five minutes for gas to clear the area. If you smell gas then STOP! Follow instructions in item B of the safety information. If you don't smell gas, go to next step.
5. Turn "ON" gas supply.
6. Turn on electrical power to the appliance.
7. Turn switch that operates the water heater to "ON" position. The switch is illustrated in **Figure 11**. Your switch may be different in appearance and is located somewhere inside the RV. If the burner does not light, the system will automatically attempt two (2) more tries for ignition before lockout. When light remains illuminated, the system is in lockout. **NOTE:** Each ignition cycle will have a 15 second purge before spark cycle.
8. If lockout occurs before main burner lights, the red light on the switch will illuminate indicating ignition did not occur. To reset, turn switch to "OFF", wait five (5) seconds and turn switch to "ON" position. The first start-up of the heater may require several ignition cycles before all air is purged from the gas lines. If the burner will not come on, the following items should be checked before calling a service person:
 1. Switch turned off.
 2. Gas supply to heater is empty or turned off.
 3. Reset button on ECO is tripped. (**see Figure 8**)
 4. If burner fails to light, call a Suburban Service Center or a local RV service agency.

OPERATING INSTRUCTIONS

MODELS SAW6DE, SAW6DEL (See Figure 8)

Electric water heaters are designed to operate with a minimum amount of service problems; however, proper operation and care is essential.

By far the most common trouble with electric water heaters results from energizing the water heater before it is filled with water. Even brief operation of the electric element without water in the tank will burn-out the electric heating element.

Before the electric element will operate, the switch located behind the water heater door in the upper right corner of the control housing must be in the "ON" position.

To energize the electric element, locate the Switch, Lamp and Plate assembly (**see Figure 11**) inside the RV and turn the switch marked "ELECTRIC" to the "ON" position. The water heater temperature will be regulated by the thermostat.

THERMOSTAT AND MANUAL RESET

ALL MODELS (See Figure 8A)

The model water heaters listed above are equipped with a high temperature limit as a cut-off device. Temperature above 180°F will cause manual reset button to trip shutting down main burner.

To activate burner, the water temperature must be below 110°F, push reset button to re-activate burner. The reset button is located behind grommet.

MODELS SAW6DE, SAW6DEL (See Figure 8B)

The model water heaters listed above are equipped with a high temperature limit as a cut-off device. Temperature above 180°F will cause manual reset button to trip shutting down the electric element.

To activate element, the water temperature must be below 110°F, push reset button to re-activate the electric element. The reset button is located behind grommet.

HIGH ALTITUDE DERATION

Suburban water heaters are certified by nationally recognized testing laboratories for operation without modifications at altitudes up to 4,500 feet in the United States and up to 2,000 feet in Canada. In Canada, the unit should be derated to 9,000 Btu/h using the supplied high altitude conversion kit at altitudes above 2,000 feet and below 4,500 feet. Operation above 4,500 feet (in US or Canada) may require derating by 4 percent for every 1,000 feet above sea level. For example, at 8,000 feet, the water heater should be derated approximately 32 percent.

If the unit is not properly derated, lack of sufficient oxygen for combustion may produce improper burner operation. You may also notice a lack of efficiency in heating the water because of incomplete combustion of the burner at these higher altitudes.

Consult with the local gas company, your dealer, an RV service center, or Suburban Manufacturing Company for proper derating of the unit. Change-out of the burner/orifice (derating) should be done by the dealer or a qualified service agency.

CONVERSION KIT INSTRUCTIONS

⚠ WARNING

The conversion kit shall be installed by a qualified service agency, in accordance with the requirements of the manufacturer, Provincial or Territorial authorities having jurisdiction and in accordance with the requirements of the CAN/CSA B149.1 Natural Gas and Propane Installation Code. If the information in these instructions is not followed exactly, a fire, an explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of the kit. The installation is not proper and complete until the operation of the converted water heater is checked as specified in the manufacturer's instructions supplied with the kit.

⚠ CAUTION

Before proceeding with the conversion, the gas supply shall be shut off prior to disconnecting the electrical power.

1. Locate High Altitude Conversion Kit #521195 which contains an orifice permanently marked #65 (refer to Figure 5 for kit location). Verify that the orifice in the conversion kit contains #65 permanent marking as shown in Figure 19F.
2. Using a standard phillips head screw driver, remove the two screws associated with the Inlet Flue Cover shown in 19A.
3. Using a 3/8" wrench, remove the burner bracket screw shown in 19B.
4. Remove the burner speed clip shown in 19C.
5. Remove the burner assembly (19D).
6. Using the 7/16" wrench, remove the existing #64 orifice as shown in 19E.
7. Remove the #65 orifice from High Altitude Conversion Kit #521195 located in Step #1. Verify that the orifice in the conversion kit contains #65 permanent marking as shown in Figure 19F. Thread the #65 orifice into position and tighten to a minimum of 30 lb-in using a 7/16" wrench.
8. Reinstall the burner assembly in reverse order starting with Step 5. Then replace burner speed clip (Step 4), re-install burner bracket screw (Step 3), and re-install the inlet flue cover (Step 2).
9. Locate affixed label 193880 shown in Figure 19G. Using a permanent marker, please mark/note the derating information accordingly.

NOTE: Once the unit has returned to an elevation below 4,500 feet in the United States and below 2,000 feet in Canada, it is important that the high altitude deration be reversed for proper operation of the unit.

TO TURN OFF WATER HEATER

1. Turn switch to "OFF" position.
2. Turn off electrical power to the appliance.
3. Turn off gas supply.
4. If vehicle is to be stored or heater is going to be turned off while subject to freezing temperature, drain water heater. (See "Draining and Storage Instructions".)

MAINTENANCE

⚠ WARNING

If the user of this appliance fails to maintain it in the condition in which it was shipped from the factory or if the appliance is not used solely for its intended purpose or if appliance is not maintained in accordance with the instructions in this manual, then the risk of a fire and/or the production of carbon monoxide exists which can cause personal injury, property damage or loss of life.

For your safety, all repairs should be performed by your dealer or a qualified service person.

⚠ CAUTION

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

1. **Main Burner:** Do not allow the burner to burn with a yellow flame, because sooting will occur. (See Safety Warnings). If the burner flame is yellow and has an erratic pattern, shut unit down and contact a qualified service agency. Do not continue operating unit with improper burner flame. (See Figure 16 for correct and incorrect burner flame appearance.)
2. Periodically inspect unit for soot. If soot is present anywhere on water heater, immediately shut unit down and contact your dealer or a qualified service person. Soot is a sign of incomplete combustion and must be corrected before operating water heater. Areas to check would include:
 - a. Check for an obstruction in burner or the flue box.
 - b. Check the screen in the door to see that no foreign material has accumulated to prevent flow of combustion and ventilating air.
 - c. Check to be sure there is no flame present at burner orifice or burner whenever main gas valve is closed. This can be checked by turning the OFF/ON switch to the "OFF" position.
3. Frequent checks should be made of the grommet on the gas inlet to assure tight seal. (See "Making Water and Gas Connections").
4. 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 Electrical 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 at 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 to drain the water from the tank.

IMPORTANT

Due to the placement of the anode rod, after draining, approximately 3 quarts of water will remain in the tank. It is very important that this water is removed.

To remove remaining water in the tank, use a readily available hand pump kit with flexible lead-free plastic tubing sections attached to both ends. Insert the siphoning end of the pump into the tank through the anode/drain opening and pump the existing amount of water out of the tank.

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 (if 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 17)

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 "Draining and Storage" instructions).

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. See Figure 8.

⚠ 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.

⚠ WARNING

If discharge occurs, you should call your dealer or a qualified service technician and have them evaluate the system in order to determine the cause of discharge and correct the cause immediately. Discharge may indicate that an unsafe temperature or pressure condition exists within the water heater which requires immediate attention.

To ensure proper operation, any replacement of the T&P relief valve **MUST** be by your dealer or a qualified service technician in accordance with these instructions. No shut-off valve should be installed between the relief valve and tank, or in the discharge outlet. This device is designed for emergency safety relief and must not be used as an operating control. Repair or alteration of valve in any way is prohibited by national safety standards/local codes.

PRESSURE RELIEF VALVE MAINTENANCE

⚠ WARNING

Failure to comply with these instructions regarding the temperature and pressure relief valve can result in serious personal injury or death and/or severe property damage.

Following installation, the valve lever must be operated at least once a year by the water heater owner to ensure that waterways are clear. Certain naturally occurring mineral deposits may adhere to the valve blocking waterways, rendering it inoperative. When the lever is operated,

hot water will discharge if the waterways are clear. Precautions must be taken to avoid personal injury from contact with hot water and to avoid property damage. Stand clear of valve discharge opening when operating test lever. If no water flows when the lever is operated, replacement of the valve is required. Turn the water heater "off" (see TO TURN OFF WATER HEATER in this manual) and call your dealer immediately.

REMOVING WATER HEATER

1. Shut off gas supply and disconnect gas supply line from water heater.
2. On all Electric Models, turn off electrical supply then disconnect 120 V.A.C. supply at junction box mounted on heater.
3. On all DSI Models, disconnect 12 V.D.C. power supply at junction box on heater.
4. 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.

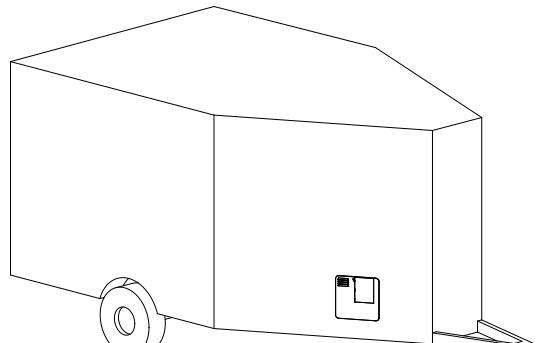


FIGURE 1

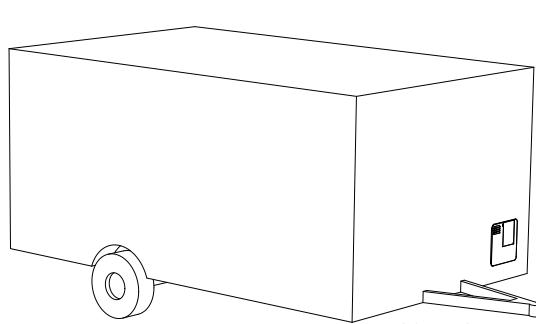


FIGURE 2

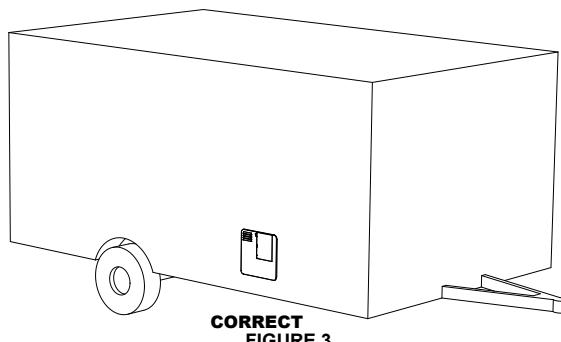


FIGURE 3

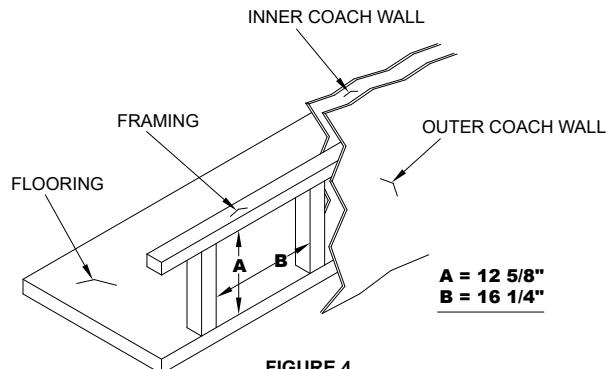


FIGURE 4

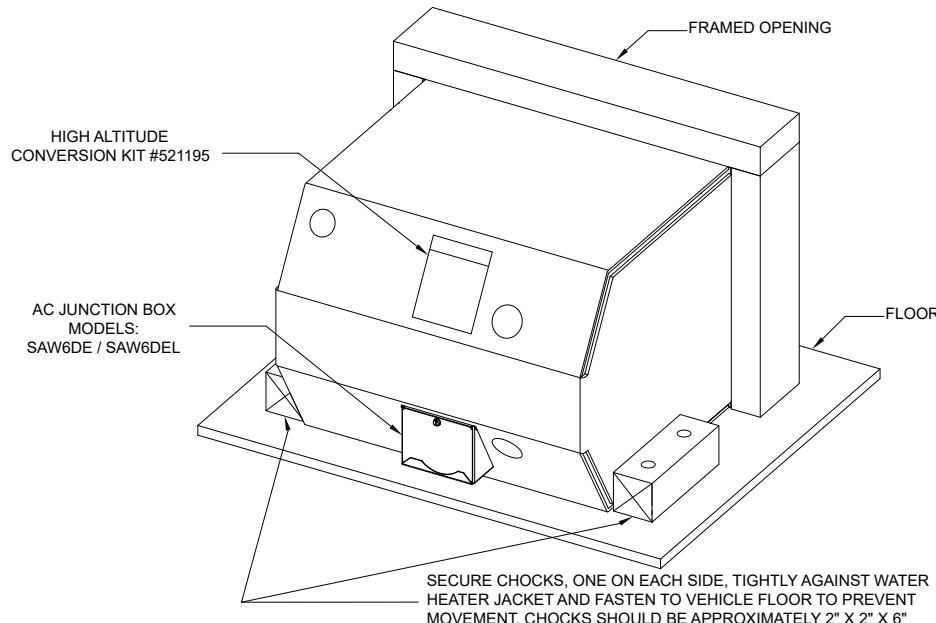


FIGURE 5

7. Remove screws or nails securing control housing to framed opening.
8. Slide heater out. To reinstall, follow instructions in manual under "Installation Instructions".

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:

AIRXCEL, Inc., Suburban Division
Customer Service Department
676 Broadway Street
Dayton, TN 37321
(423) 775-2131 Ext. 7101
www.Airxcel.com

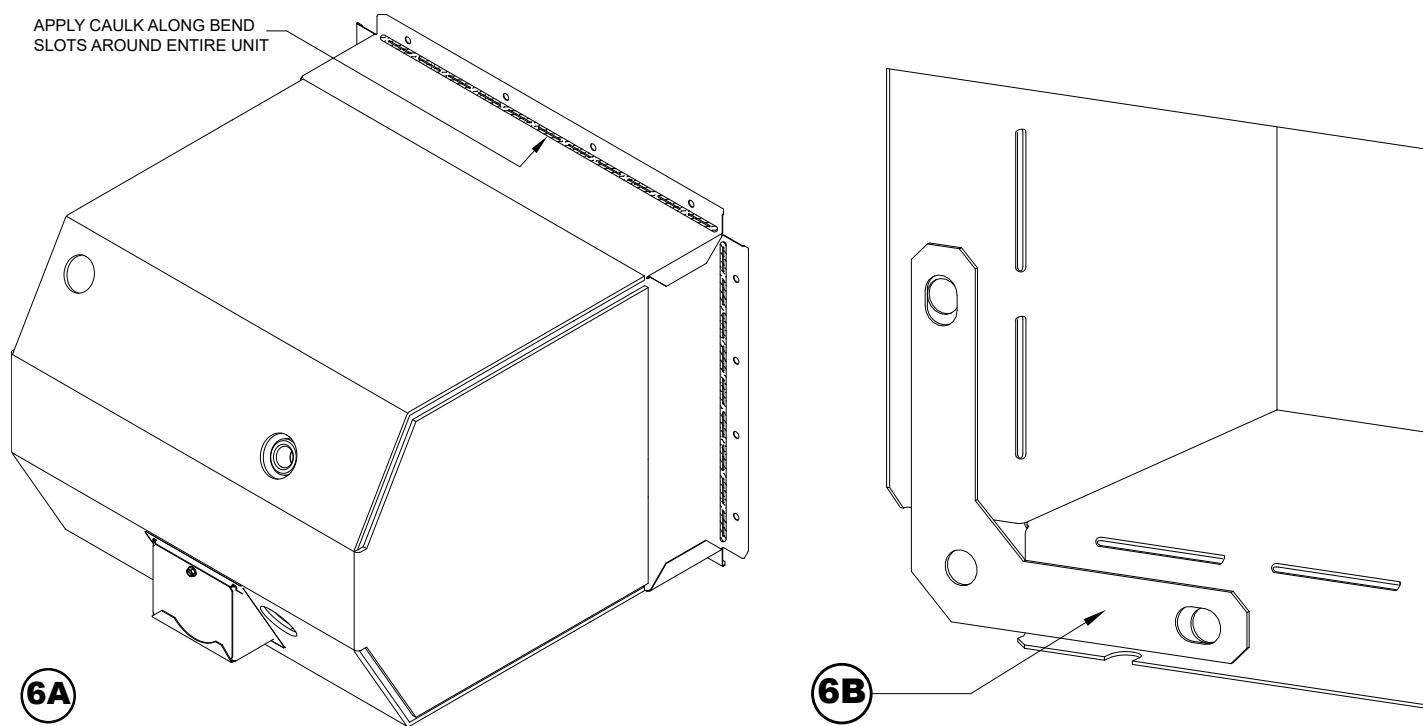
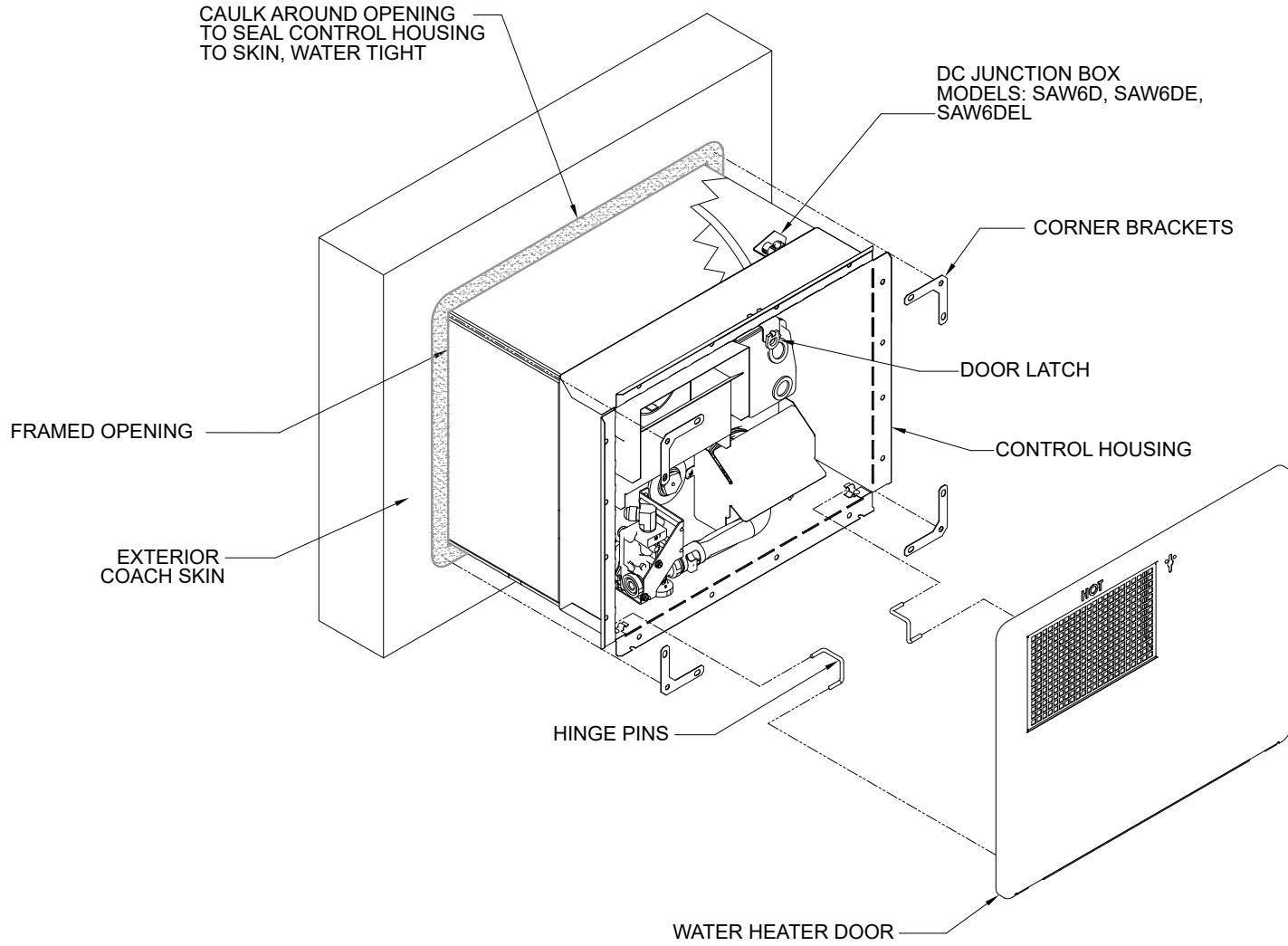


FIGURE 6

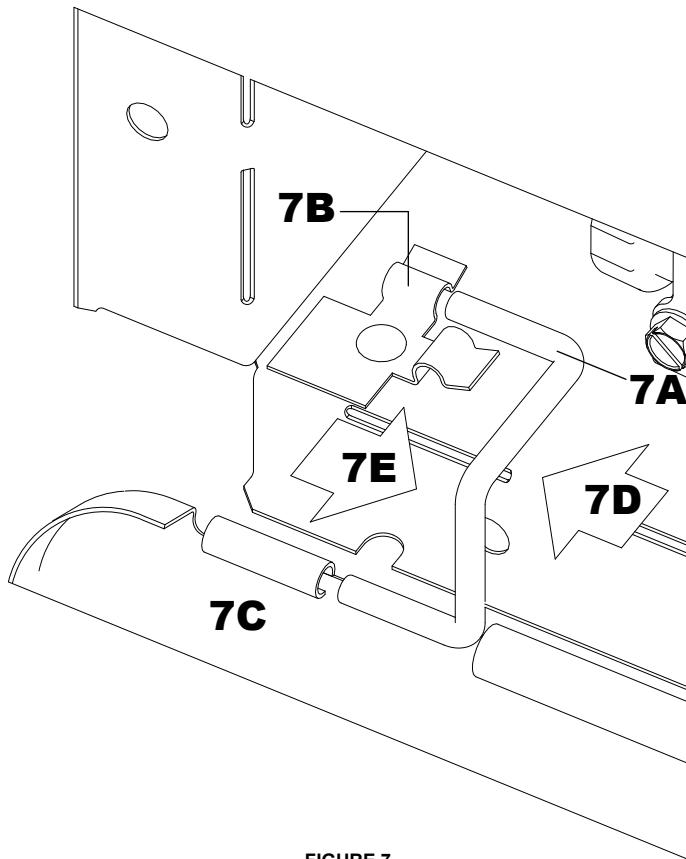


FIGURE 7

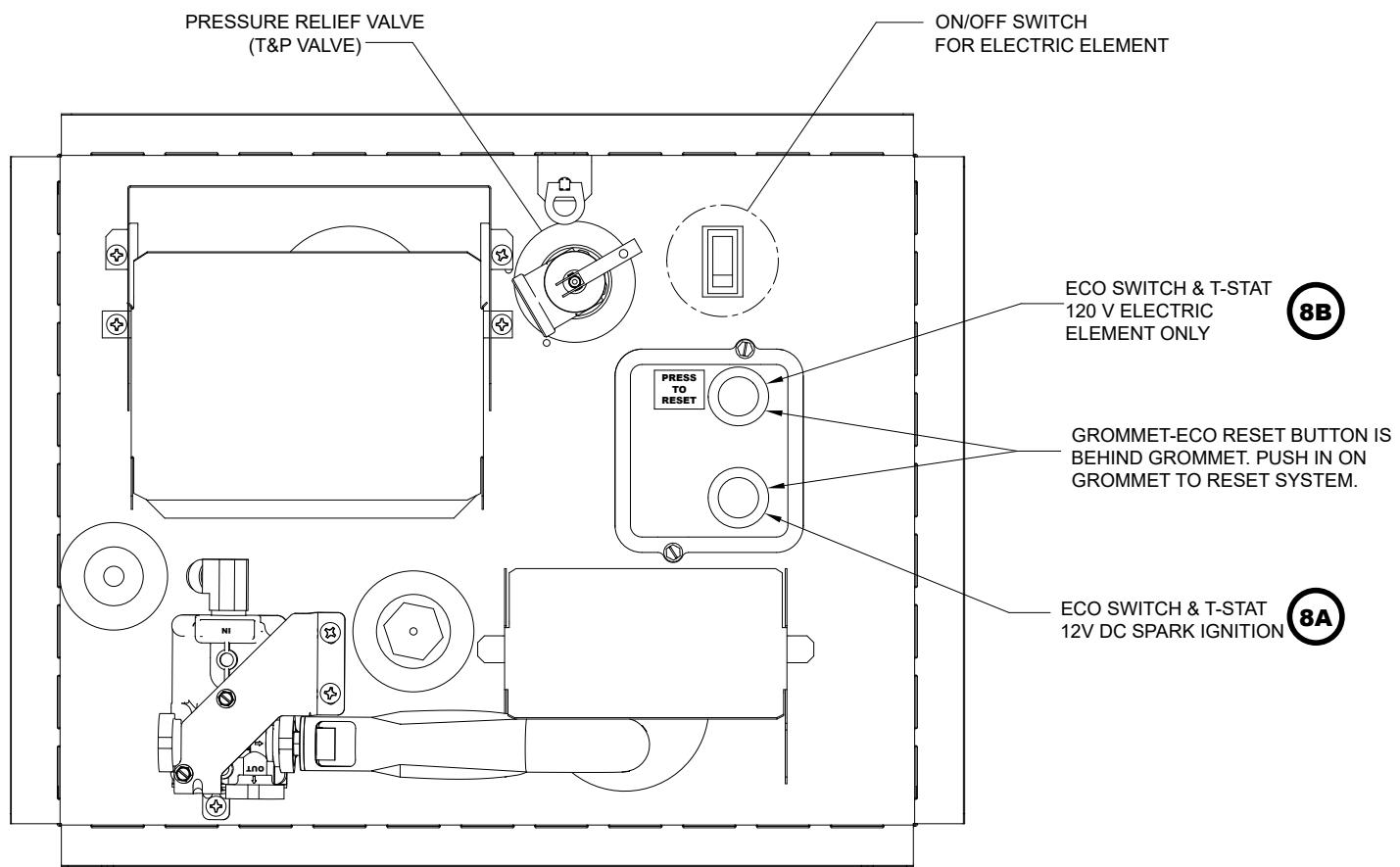


FIGURE 8

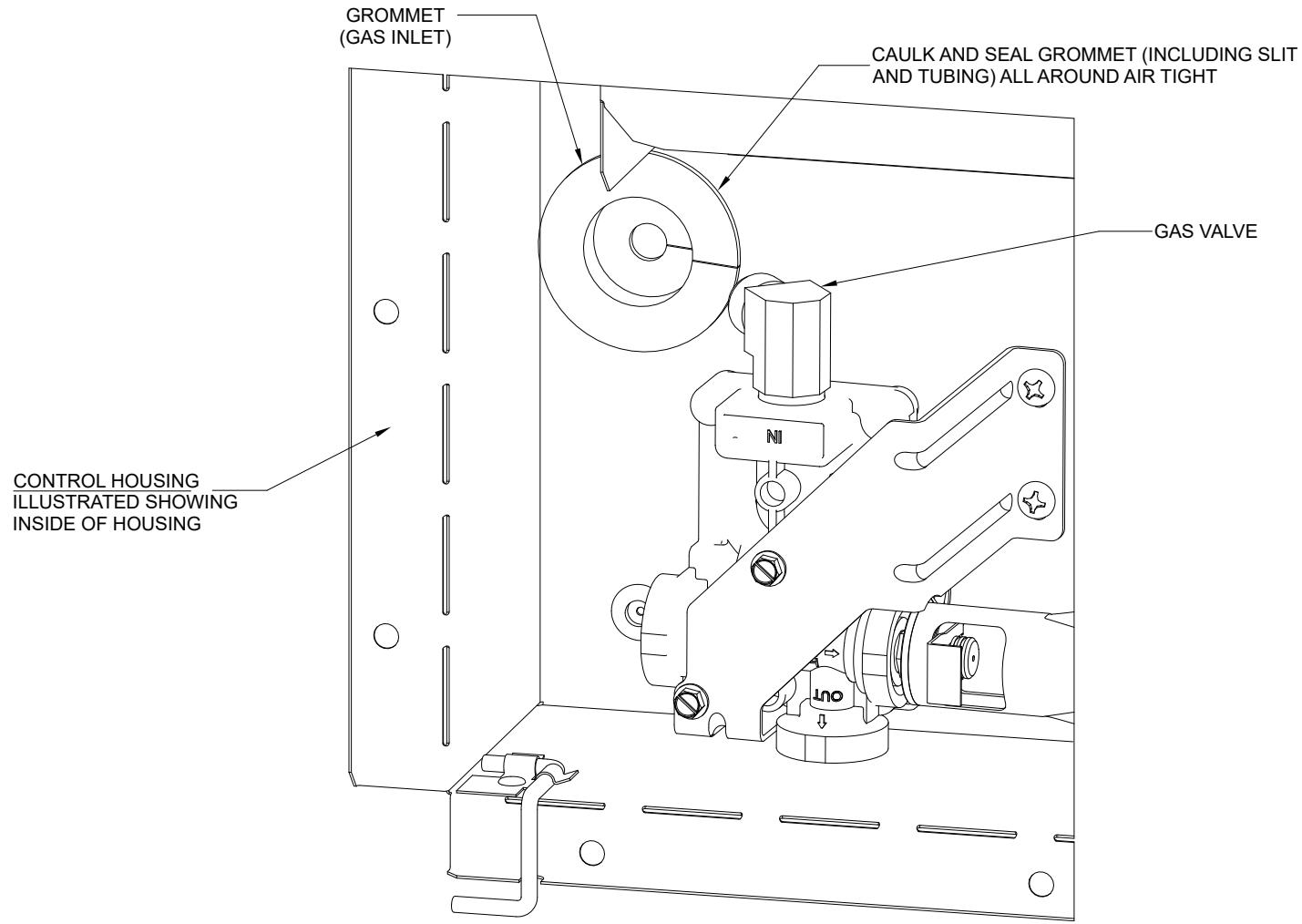


FIGURE 9

BACK VIEW

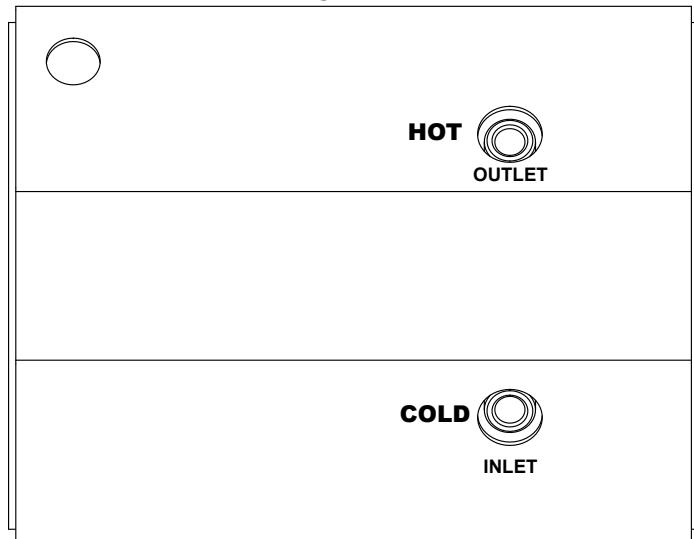


FIGURE 10

SWITCH, LAMP AND PLATE ASSEMBLY
(GAS AND ELECTRIC)

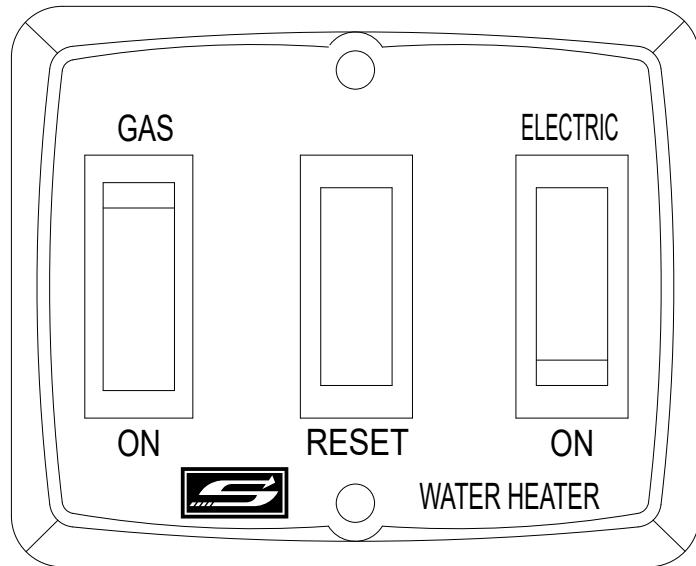
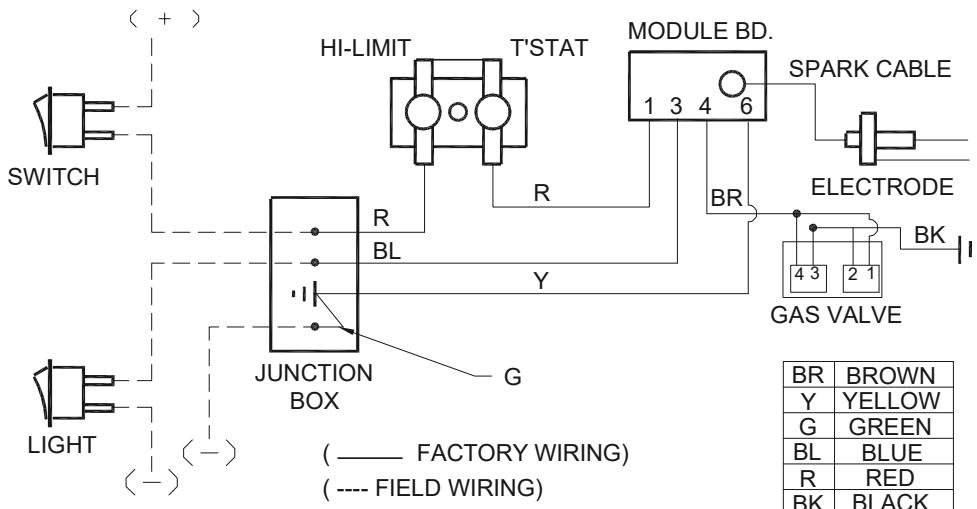


FIGURE 11

12 V.D.C. ONLY

IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE WATER HEATER MUST BE REPLACED, IT MUST BE REPLACED WITH 18 GA., 105°C WIRE OR IT'S EQUIVALENT.



DISCONNECT POWER SUPPLY BEFORE SERVICING THERMOSTAT AND HI-LIMIT UNDER ACCESS COVER.

CAUTION: DO NOT HI-POT (DIELECTIC HIGH VOLTAGE TEST) THIS UNIT AFTER INSTALLATION. TO DO SO MAY CAUSE COMPONENT DAMAGE AND VOIDS WARRANTY OF WATER HEATER.

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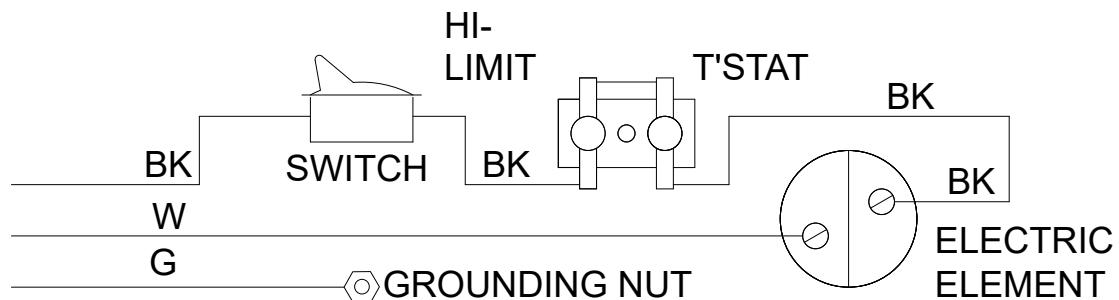
FIGURE 12 | SAW6D AND SAW6DE

120 V.A.C. ONLY

DISCONNECT POWER SUPPLY BEFORE REMOVING COVER

SUBURBAN MANUFACTURING COMPANY, DAYTON, TENNESSEE
120 V.A.C SINGLE PHASE - 1440 WATT ELEMENT - 60 CYCLE
TOTAL CONNECTED WATTS = 1440 - AMPS = 12

CODE	COLOR
BK	BLACK
W	WHITE
G	GREEN



IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE HEATER MUST BE REPLACED, IT MUST BE REPLACED WITH 14 GA. 105°C WIRE OR IT'S EQUIVALENT.

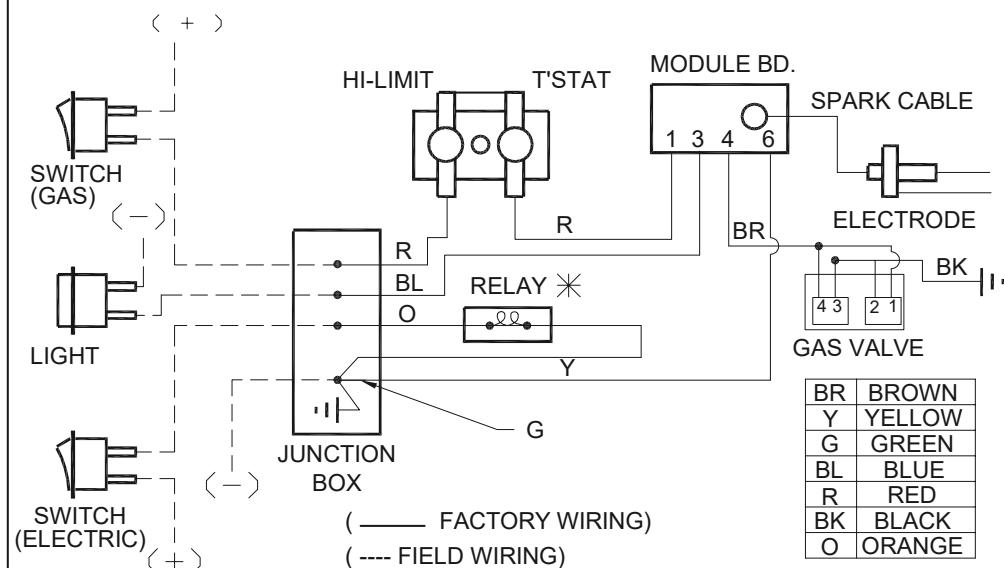
SI UN DES FILS ELECTRIQUES LIVRES AVEC LE CHAUFFE-EAU DOIT ETRE
REPLACE, UTILISER A CET EFFET UN FIL 14 GA. 105° OU EQUIVALENT.

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FIGURE 13 | SAW6DE

12 V.D.C. ONLY

IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE WATER HEATER MUST BE REPLACED, IT MUST BE REPLACED WITH 18 GA., 105°C WIRE OR EQUIVALENT.



DISCONNECT POWER SUPPLY BEFORE SERVICING THERMOSTAT AND HI-LIMIT UNDER ACCESS COVER.

CAUTION: DO NOT HI-POT (DIELECTRIC HIGH VOLTAGE TEST) THIS UNIT AFTER INSTALLATION. TO DO SO MAY CAUSE COMPONENT DAMAGE AND VOIDS WARRANTY OF WATER HEATER.

*12VDC SIDE OF RELAY

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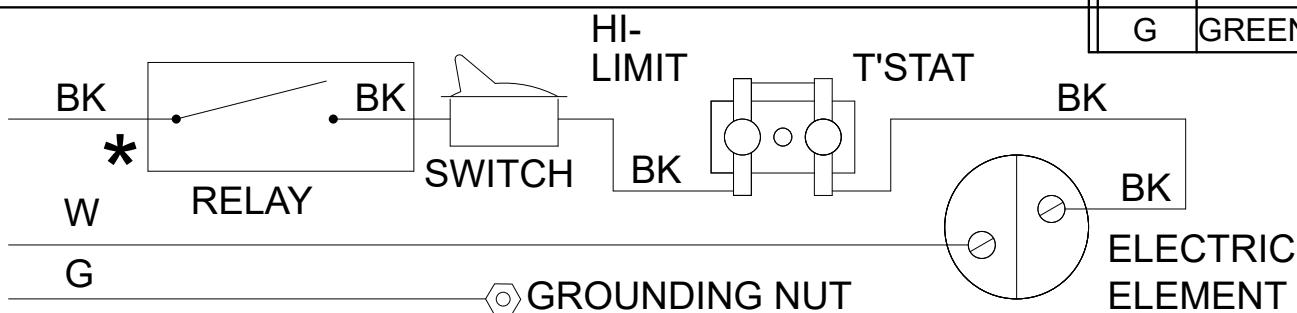
FIGURE 14 | SAW6DEL

120 V.A.C. ONLY

DISCONNECT POWER SUPPLY BEFORE REMOVING COVER

SUBURBAN MANUFACTURING COMPANY, DAYTON, TENNESSEE
120 V.A.C SINGLE PHASE - 1440 WATT ELEMENT - 60 CYCLE
TOTAL CONNECTED WATTS = 1440 - AMPS = 12

CODE	COLOR
BK	BLACK
W	WHITE
G	GREEN



IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE HEATER MUST BE REPLACED, IT MUST BE REPLACED WITH 14 GA. 105°C WIRE OR IT'S EQUIVALENT.

SI UN DES FILS ELECTRIQUES LIVRES AVEC LE CHAUFFE-EAU DOIT ETRE REMPLACE, UTILISER A CET EFFET UN FIL 14 GA. 105° OU EQUIVALENT.

*120VAC SIDE OF RELAY

205639

FIGURE 15 | SAW6DEL

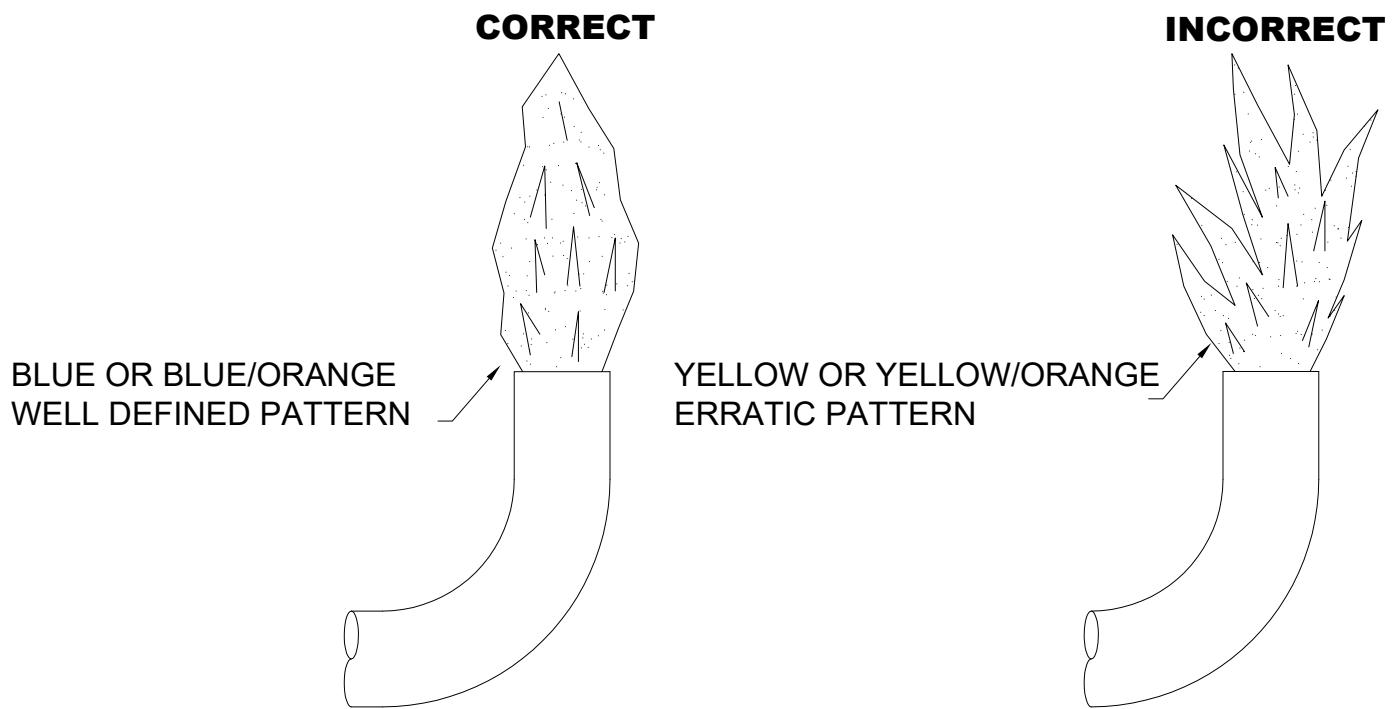


FIGURE 16

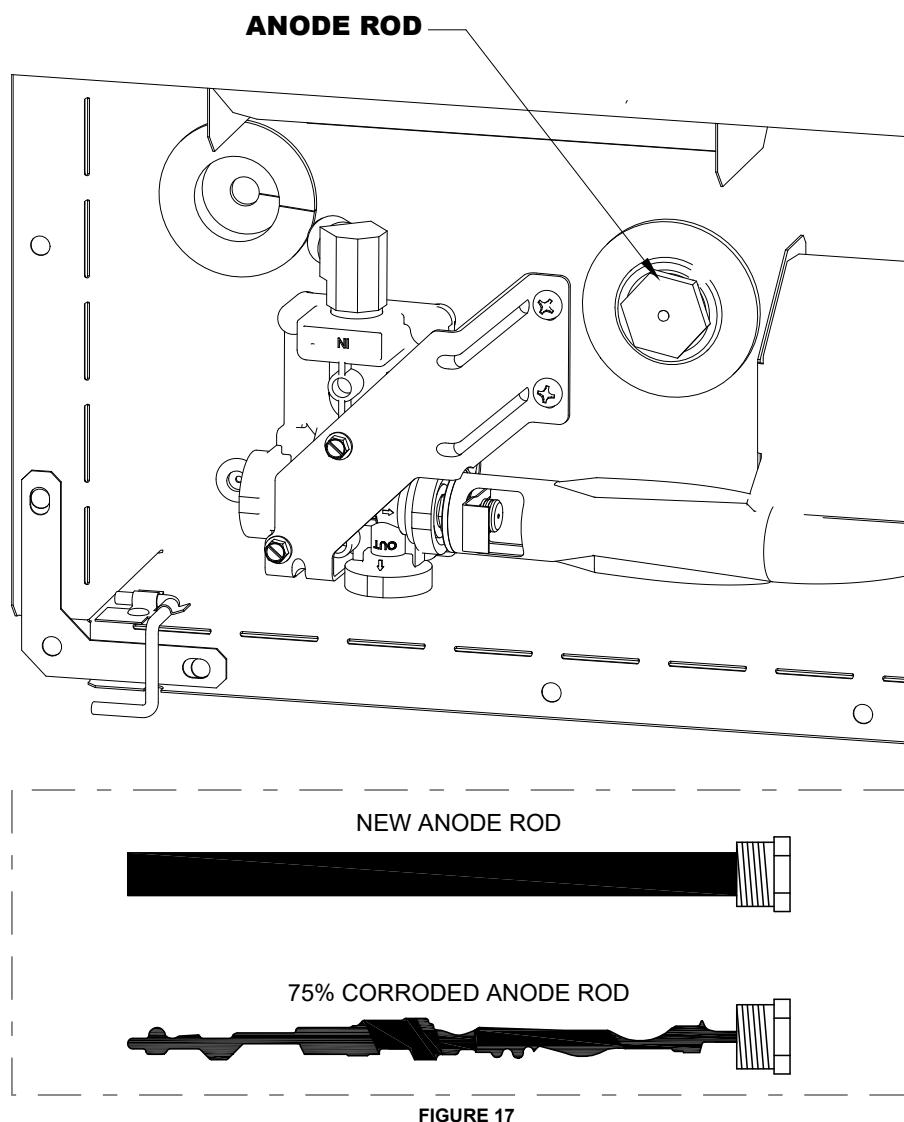


FIGURE 17

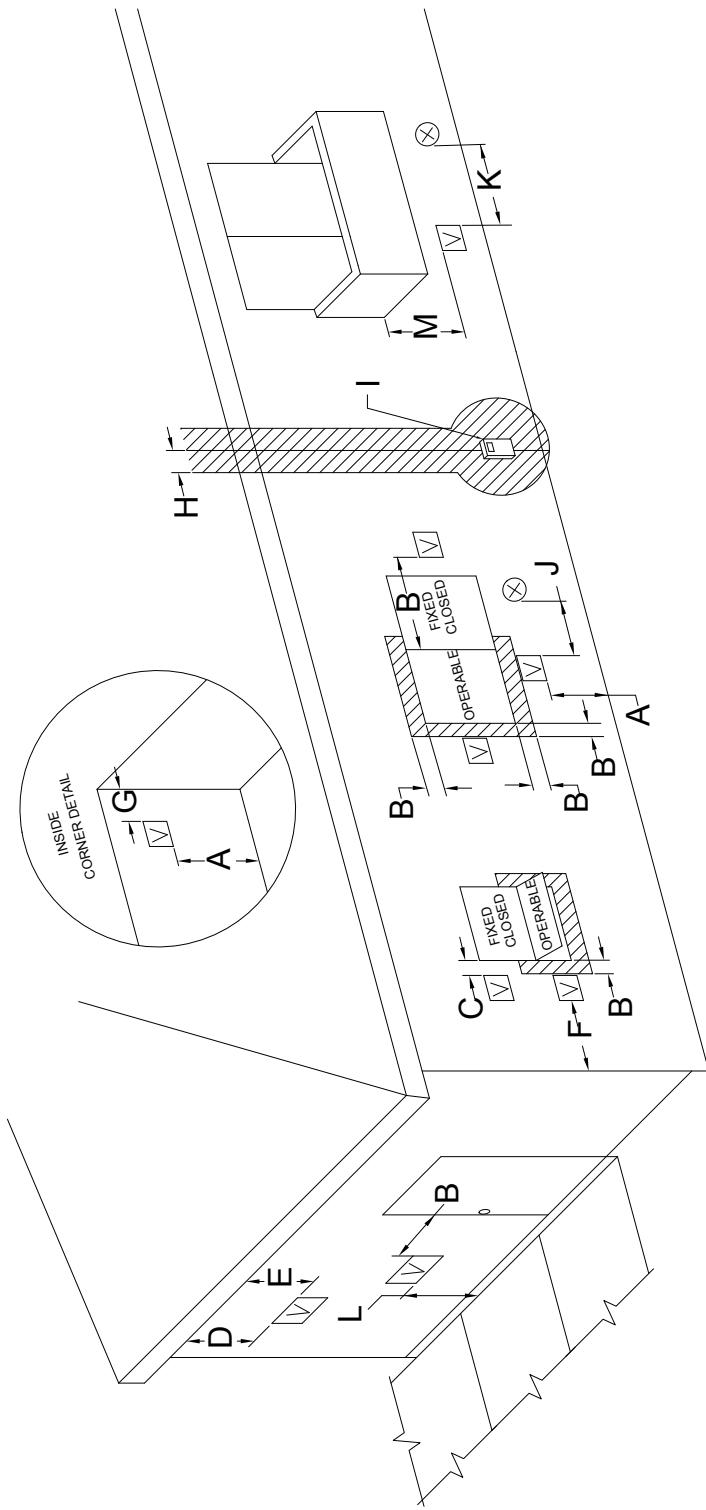


FIGURE 18

VENT TERMINAL		AIR SUPPLY INLET		AREA WHERE TERMINAL IS NOT PERMITTED	
CANADIAN INSTALLATIONS		US INSTALLATIONS		CANADIAN INSTALLATIONS	
A=	CLEARANCE ABOVE GRADE, VERRANDA, PORCH, DECK, OR BALCONY	12 INCHES (30cm)	12 INCHES (30cm)	J=	CLEARANCE TO NONMECHANICAL AIR SUPPLY INLET TO BUILDING OR THE COMBUSTION AIR INLET TO ANY OTHER APPLIANCE.
B=	CLEARANCE TO WINDOW OR DOOR THAT MAY BE OPENED	12 INCHES (30cm)	9 INCHES (23cm)	K=	CLEARANCE TO A MECHANICAL AIR SUPPLY INLET
C=	CLEARANCE TO PERMANENTLY CLOSED WINDOW	*	*	L=	CLEARANCE ABOVE PAVED SIDEWALK OR PAVED DRIVEWAY LOCATED ON PUBLIC PROPERTY
D=	VERTICAL CLEARANCE TO VENTILATED SOFFIT LOCATED ABOVE THE TERMINAL WITHIN A HORIZONTAL DISTANCE OF 21 FT (6 cm) FROM THE CENTER LINE OF THE TERMINAL	*	*	M=	CLEARANCE UNDER VERRANDA, PORCH, DECK, OR BALCONY
E=	CLEARANCE TO UNVENTILATED SOFFIT	*	*	N=	12 INCHES (30cm)
F=	CLEARANCE TO OUTSIDE CORNER	*	*	O=	IN ACCORDANCE WITH THE CURRENT CSA B149.1; NATURAL GAS AND PROPANE INSTALLATION CODE
G=	CLEARANCE TO INSIDE CORNER	*	*	P=	IN ACCORDANCE WITH THE CURRENT ANSI Z223.1/NFPA 54; NATIONAL FUEL GAS CODE
H=	CLEARANCE TO EACH SIDE OF CENTERLINE EXTENDED ABOVE METER / REGULATOR ASSEMBLY	3 FEET (91cm) WITHIN A HEIGHT 15 FEET (4.57m) ABOVE THE METER / REGULATOR	*	Q=	A VENT SHALL NOT TERMINATE DIRECTLY ABOVE A SIDEWALK OR PAVED DRIVEWAY THAT IS LOCATED BETWEEN TWO SINGLE FAMILY DWELLINGS AND SERVES BOTH DWELLINGS.
I=	CLEARANCE TO SERVICE REGULATOR VENT OUTLET	3 FEET (91cm)	*	R=	PERMITTED ONLY IF VERRANDA, PORCH, DECK, OR BALCONY IS FULLY OPEN ON A MINIMUM OF TWO SIDES BEHIND THE FLOOR.
				S=	CLEARANCE IN ACCORDANCE WITH LOCAL INSTALLATION CODES AND THE REQUIREMENTS OF THE GAS SUPPLIER.

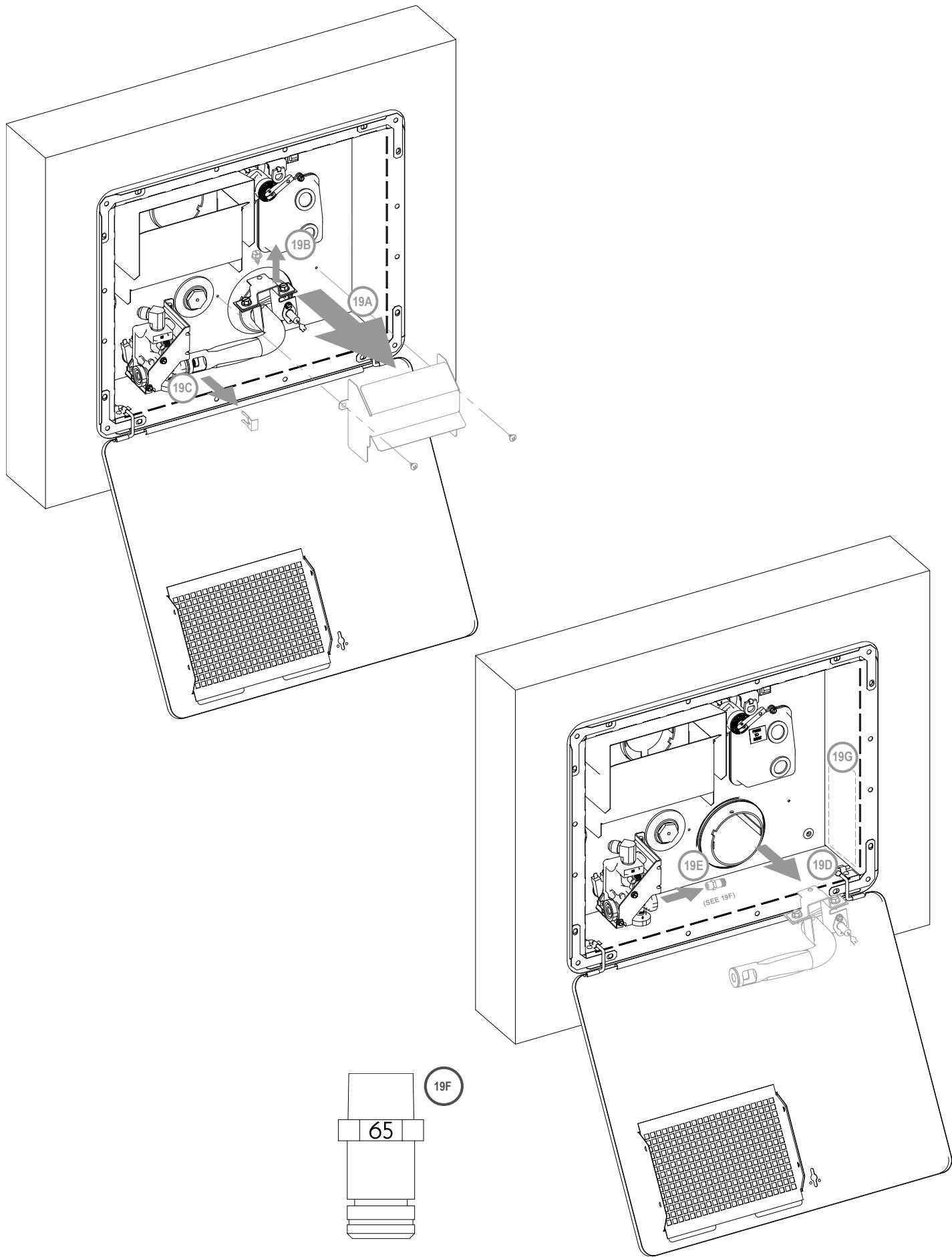


FIGURE 19

TWO YEAR LIMITED WARRANTY

SUBURBAN RECREATIONAL VEHICLE WATER HEATER

TWO YEAR LIMITED WARRANTY

This Suburban product is warranted to the original purchaser to be free from defects in material and workmanship under normal use and maintenance for a period of two years from date of purchase whether or not actual use begins on that date. It is the responsibility of the consumer/owner to establish the warranty period. Suburban does not use warranty registration cards for its standard warranty. You are required to furnish proof of purchase date through a Bill of Sale or other payment records.

Suburban will replace any parts that are found defective within the first two years and will pay a warranty service allowance directly to the recommended Suburban Service Center at rates mutually agreed upon between Suburban and its recommended service centers. Replacement parts will be shipped FOB the shipping point within the Continental United States, Alaska and Canada to the recommended service center performing such repairs. All freight, shipping and delivery costs shall be the responsibility of the owner. The exchanged part or unit will be warranted for only the unexpired portion of the original warranty. Before having warranty repairs made, confirm that the service agency is a recommended service center for Suburban. **DO NOT PAY THE SERVICE AGENCY FOR WARRANTY REPAIRS; SUCH PAYMENTS WILL NOT BE REIMBURSED.**

Suburban reserves the right to examine the alleged defect in the water heater or component parts, and it is the owner's obligation to return the water heater and/or component parts to Suburban or its representative. When returning a water heater, it must include all component parts and the serial number plate. Returned component parts must be individually tagged and identified with the water heater's model number, serial number and date of installation.

For warranty service, the owner/user should contact the nearest recommended Suburban Service Center, advising them of the model and serial numbers (located on the water heater) and the nature of the defect. Transportation of the RV to and from the Service Center and/or travel expenses of the Service Center to your location is the responsibility of the owner/user. A current listing of recommended service center may be obtained from Suburban's website: www.Airxcel.com. If you cannot locate a recommended service center locally, the service agency chosen to perform warranty repairs must contact our Service Department at 423-775-2131 for authorization before making repairs. Unauthorized repairs made will not be paid by Suburban.

THREE YEAR LIMITED WARRANTY ON TANK

The inner tank is further warranted to be free from defects in material and workmanship during the third year after the date of original purchase. A replacement water heater will be provided under the same conditions as stated in the two year warranty EXCEPT no labor reimbursement will be provided.

LIMITATION OF WARRANTIES

ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY) ARE HEREBY LIMITED IN DURATION TO THE PERIOD FOR WHICH EACH LIMITED WARRANTY IS GIVEN. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. THE EXPRESSED WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER OR OTHER PERSON WHOMSOEVER.

SUBURBAN WILL NOT BE RESPONSIBLE FOR:

1. Normal maintenance as outlined in the installation, operating and service instructions owner's manual including cleaning of component parts and cleaning or replacement of the burner orifice. Any water damage arising, directly or indirectly, from any defect in the water heater or component parts or from its use.
2. Initial checkouts and subsequent checkouts which indicate the water heater is operating properly, or diagnosis without repair.
3. Damage or repairs required as a consequence of faulty or incorrect installation or application not in conformance with Suburban instructions.
4. Failure to start and/or operate due to loose or disconnected wires; water or dirt in controls, fuel lines and gas tanks; improper gas pressure; low voltage.
5. Cleaning or adjustment of components; electrode, burner tube, pilot and thermocouple.
6. Costs incurred in gaining access to the water heater.
7. Parts or accessories not supplied by Suburban.
8. Freight charges incurred from parts replacements.
9. Damage or repairs needed as a consequence of any misapplication, abuse, unreasonable use, unauthorized alteration, improper service, improper operation or failure to provide reasonable and necessary maintenance.
10. Suburban products whose serial number has been altered, defaced or removed.
11. Suburban products installed or warranty claims originating outside the Continental U.S.A., Alaska, Hawaii and Canada.
12. Damage as a result of floods, winds, lightning, accidents, corrosive atmosphere or other conditions beyond the control of Suburban.
13. ANY SPECIAL, INDIRECT OR CONSEQUENTIAL PROPERTY, ECONOMIC OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER.

Some states do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to you.

NO REPRESENTATIVE, DEALER, RECOMMENDED SERVICE CENTERS OR OTHER PERSON IS AUTHORIZED TO ASSUME FOR SUBURBAN MANUFACTURING COMPANY ANY ADDITIONAL, DIFFERENT OR OTHER LIABILITY IN CONNECTION WITH THE SALE OF THIS SUBURBAN PRODUCT.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

IF YOU HAVE A PRODUCT PROBLEM

FIRST: If your RV has its original water heater and is still under the RV manufacturer's warranty, follow the steps suggested by your dealer or manufacturer of the RV.

SECOND: 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 to the selected service center.

THIRD: For the location of the nearest Service Center, refer to the listing provided or contact:

AIRXCEL, INC. - SUBURBAN DIVISION
Customer Service Department
676 Broadway Street
Dayton, Tennessee 37321
(423) 775-2131, Ext. 7101
www.Airxcel.com

FOR FUTURE REFERENCE, YOU SHOULD RECORD THE FOLLOWING INFORMATION:

MODEL NUMBER: _____

SERIAL NUMBER: _____

STOCK NUMBER: _____

DATE OF PURCHASE: _____

FIGURE 19

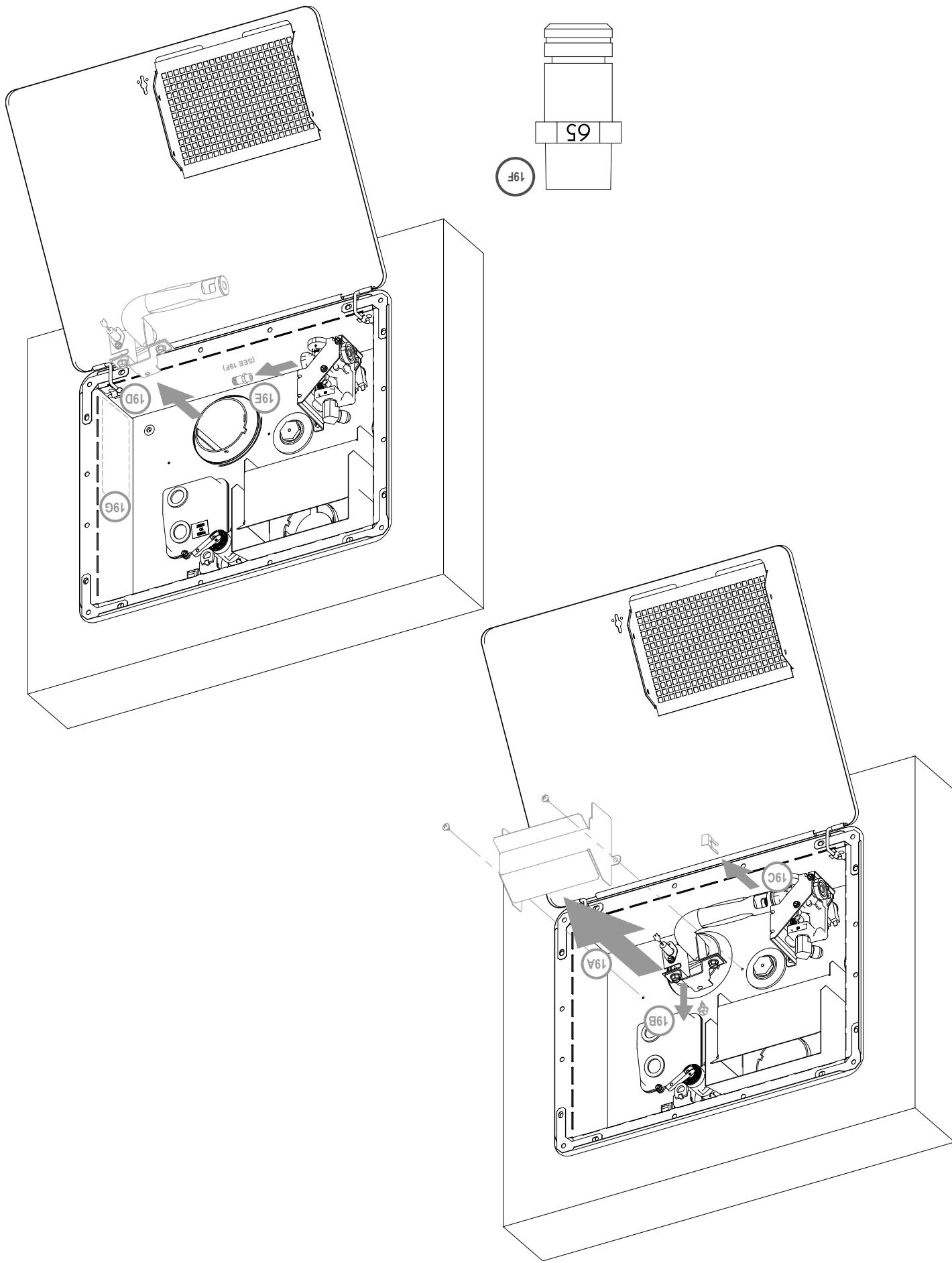
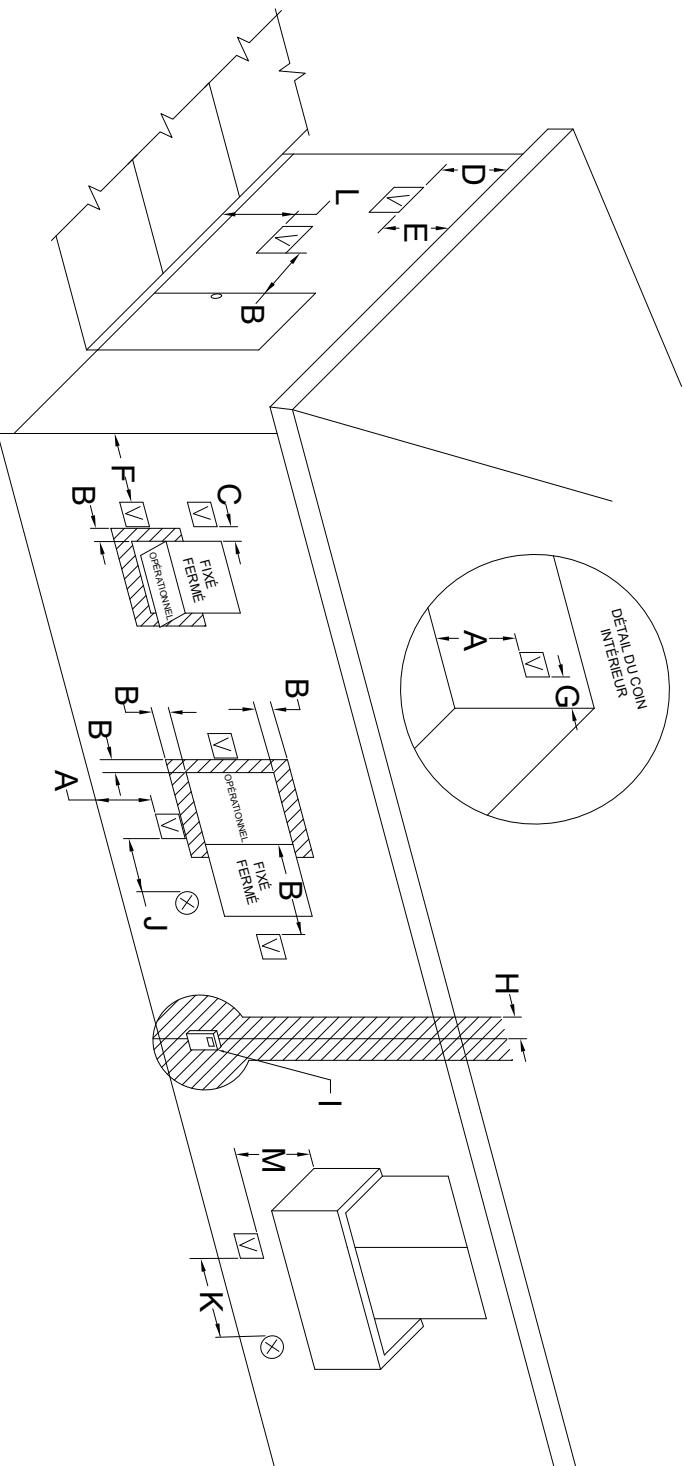
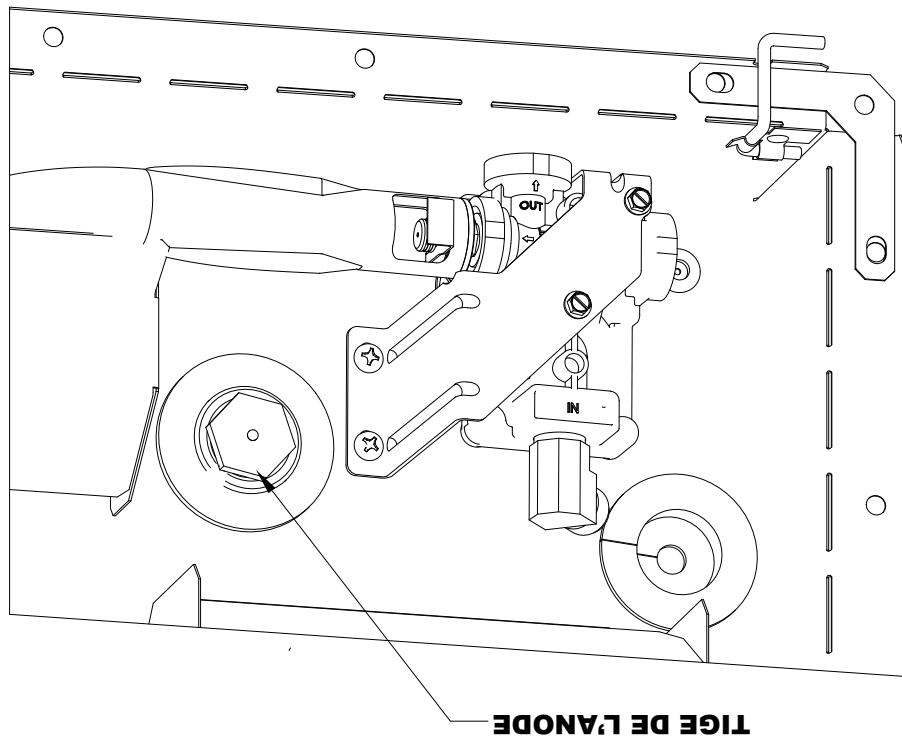
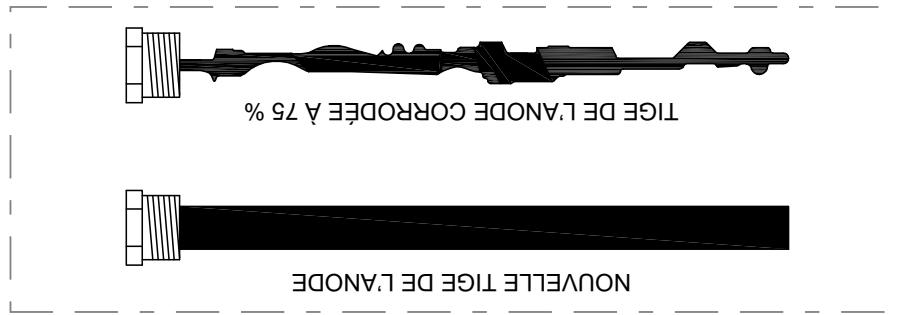


FIGURE 18



	TERMINAISON DE L'ÉVENT	ENTRÉE D'AIR	ZONE OÙ LA TERMINAISON EST INTERDITE
INSTALLATIONS CANADIENNES ¹			INSTALLATIONS CANADIENNES ¹
A= DÉGAGEMENT AU-DESSUS DU SOL DE LA VÉRANDA DU PORCHE DE LA TERRASSE OU DU BALCON	30 CM (12 PO)	30 CM (12 PO)	J= DÉGAGEMENT PAR RAPPORT À UNE FENÊTRE OU À UNE PORTE POUVANT ÊTRE OUVERTE
B= DÉGAGEMENT PAR RAPPORT À UNE FENÊTRE OU À UNE PORTE POUVANT ÊTRE OUVERTE	30 CM (12 PO)	23 CM (9 PO)	K= DÉGAGEMENT PAR RAPPORT À UNE ENTRÉE D'AIR MÉCANIQUE
C= DÉGAGEMENT PAR RAPPORT À UNE FENÊTRE FERMÉE EN PERMANENCE	*	*	L= DÉGAGEMENT AU-DESSUS D'UN TROTTOIR PAVÉ OU D'UNE ENTRÉE PAVÉE SITUÉE SUR UNE PROPRIÉTÉ PUBLIQUE
D= DÉGAGEMENT VERTICAL PAR RAPPORT À UN SOFFITE VENTILÉ AU-DESSUS D'UNE TERMINAISON À UNE DISTANCE HORIZONTALE DE 61 CM (2 PI) PAR RAPPORT À LA LIGNE CENTRALE DE LA TERMINAISON	*	*	M= DÉGAGEMENT AU-DESSUS DU SOL DE LA VÉRANDA DU PORCHE, DE LA TERRASSE OU DU BALCON
E= DÉGAGEMENT PAR RAPPORT À UN SOFFITE NON VENTILÉ	*	*	N= 30 CM (12 PO) *
F= DÉGAGEMENT PAR RAPPORT À UN COIN EXTERIEUR	*	*	91 CM (3 PI) AU-DESSUS SI À MOINS DE 3 M (10 PI) À L'HORizontale
G= DÉGAGEMENT PAR RAPPORT À UN COIN INTÉRIEUR	*	*	1.2 M (4 PI) AU-DESSUS OU AU CÔTÉ DE L'OUVERTURE, 300 MM (1 PI) AU-DESSUS DE L'OUVERTURE
H= DÉGAGEMENT PAR RAPPORT À CHAQUE CÔTÉ DE LA LIGNE CENTRALE QUI S'ÉTEND AU-DESSUS DE L'ASSEMBLAGE DE COMPTEURRÉGULATEUR	91 CM (3 PI) À UNE HAUTEUR DE 4,57 M (15 PI) OU MOINS AU-DESSUS DE L'ASSEMBLAGE DU COMPTEURRÉGULATEUR	*	1 CONFORMÉMENT À LA CSA B49.1, CODE EN MATIÈRE D'INSTALLATION DE GAZ NATUREL ET DE PROPANE LE PLUS RÉCENT 2 CONFORMÉMENT À ANSI Z223.1/NFPA 54, CODE NATIONAL POUR LE GAZIERAUX GAZ † UN ÉVENT NE DOIT PAS SE TERMINER DIRECTEMENT AU-DESSUS D'UN TROTTOIR OU D'UN STATIONNEMENT PAVÉ SE TROUvant ENTRE DEUX HABITATIONS UNIFAMILIALES ET SERVANT POUR LES DEUX HABITATIONS. * PERMIS SEULEMENT SI LA VÉRANDA, LE PORCHE, LA TERRASSE OU LE BALCON EST ENTièrement OUVERT SUR AU MOINS DEUX CÔTÉS SOUS LE PLANCHER.
I= DÉGAGEMENT D'UNE ENTRÉE D'AIR À LA SORTIE DE L'ÉVENT DU RÉGULATEUR D'ENTRETIEN	91 CM (3 PI)	*	• DÉGAGEMENT CONFORME AUX CODES D'INSTALLATION LOCAUX ET AUX EXIGENCES DU FOURNISSEUR DE GAZ.

FIGURE 17



TIGE DE L'ANODE

FIGURE 16

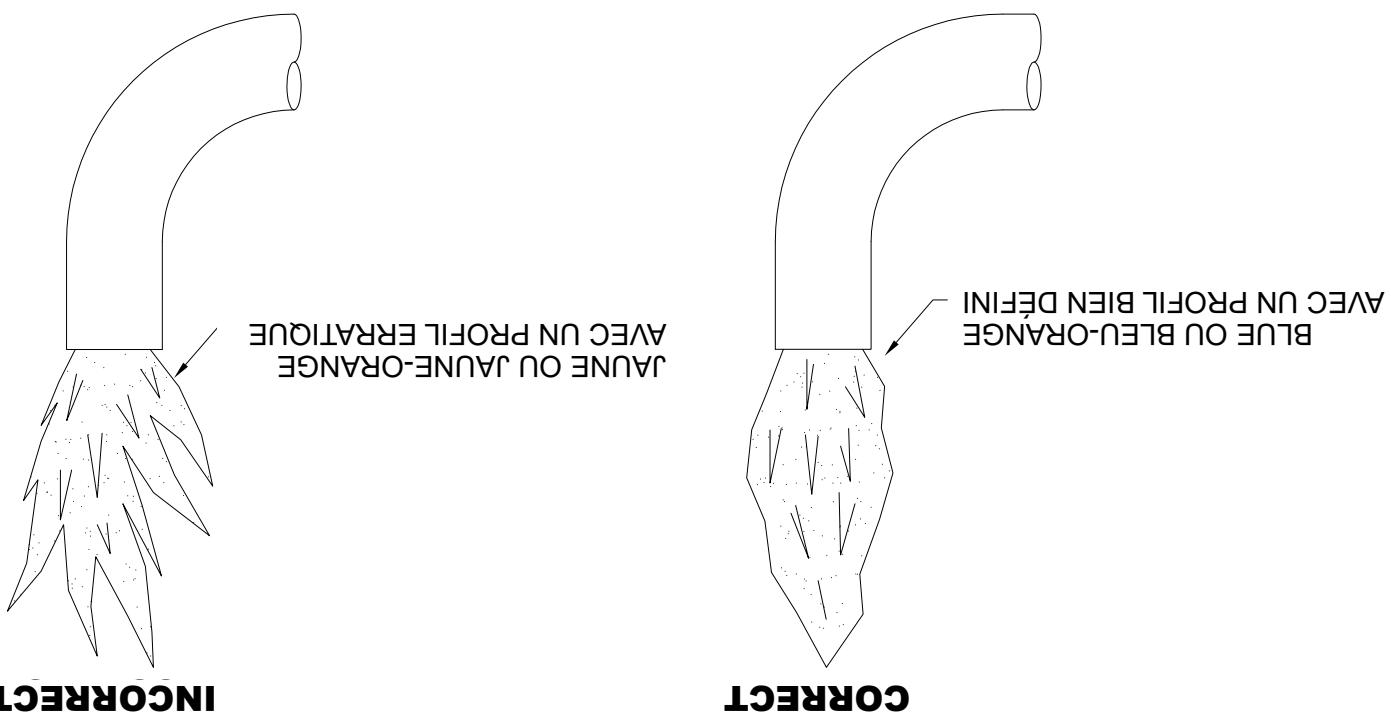


FIGURE 15 | SAW6DEL

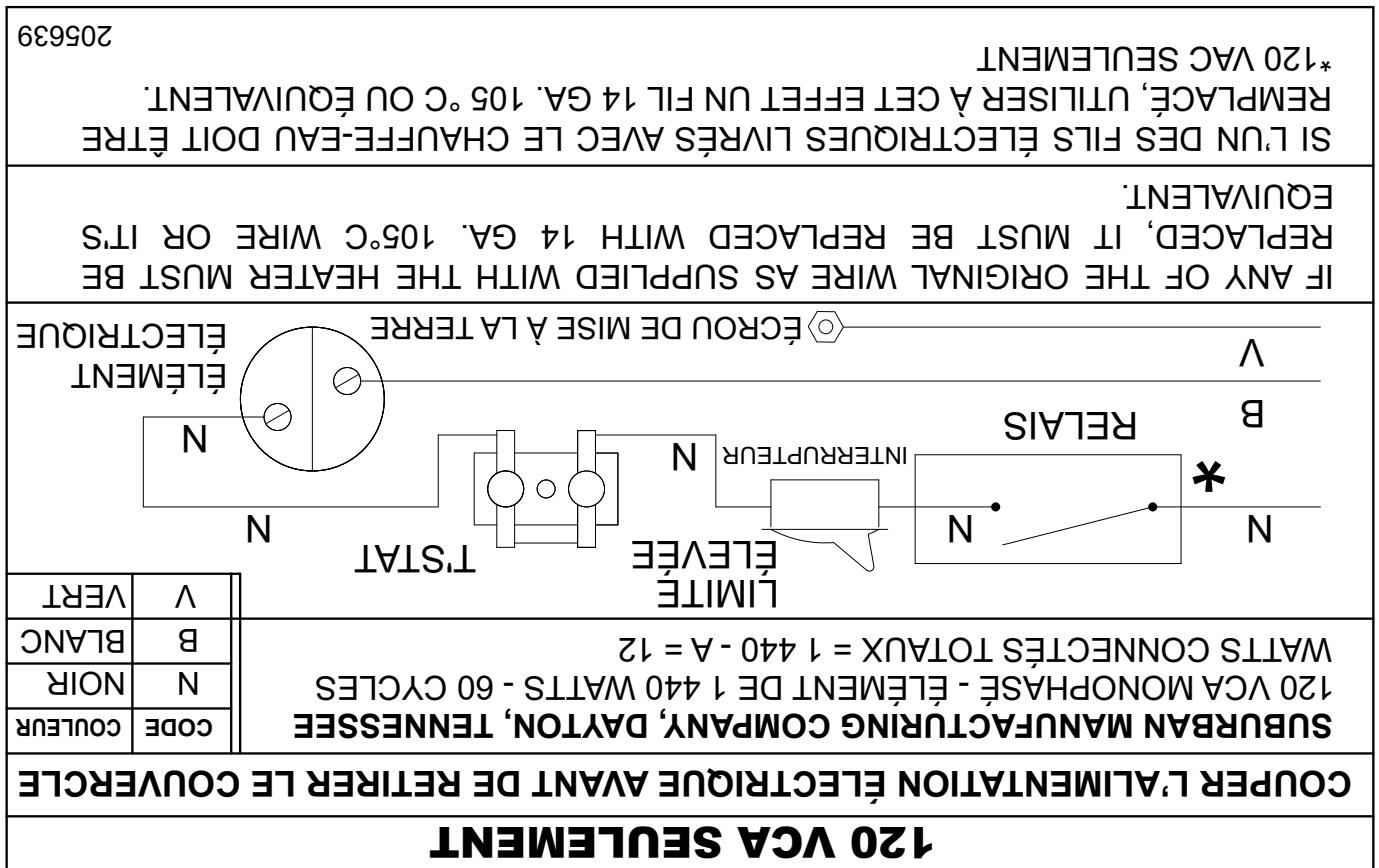


FIGURE 13 | SAWGDE

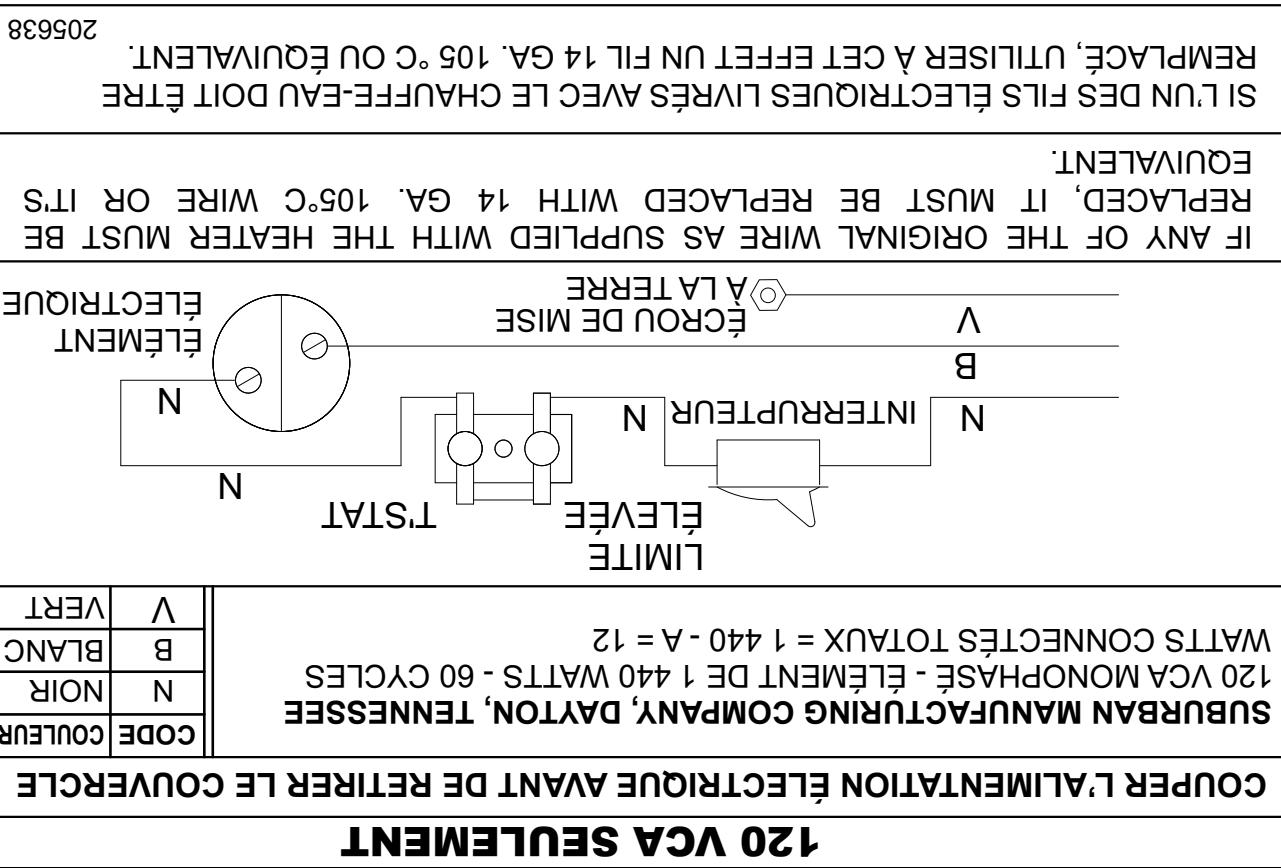


FIGURE 12 | SAWGD ET SAWGDE

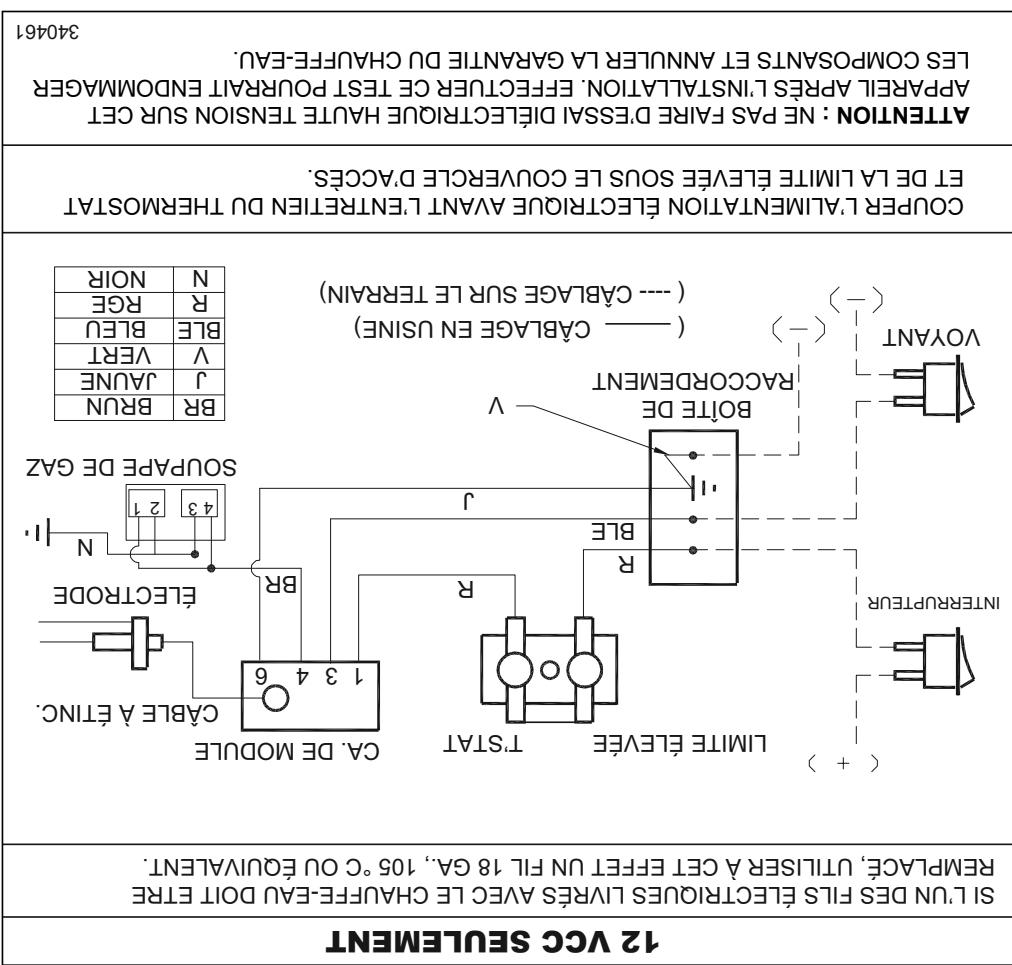
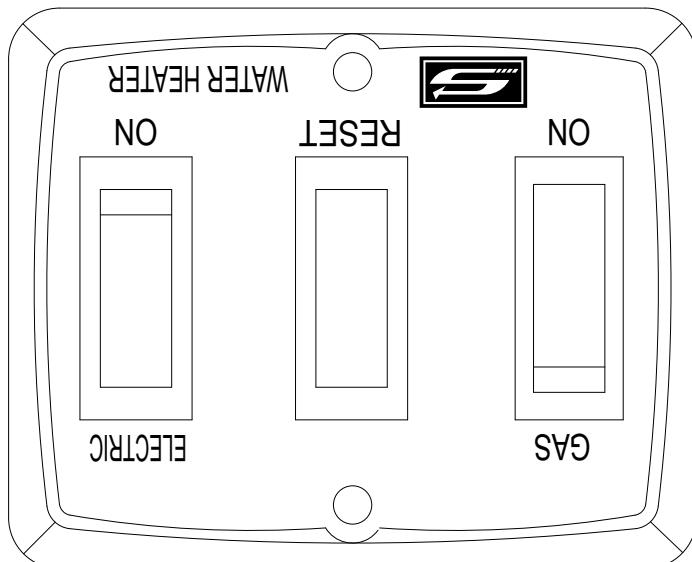
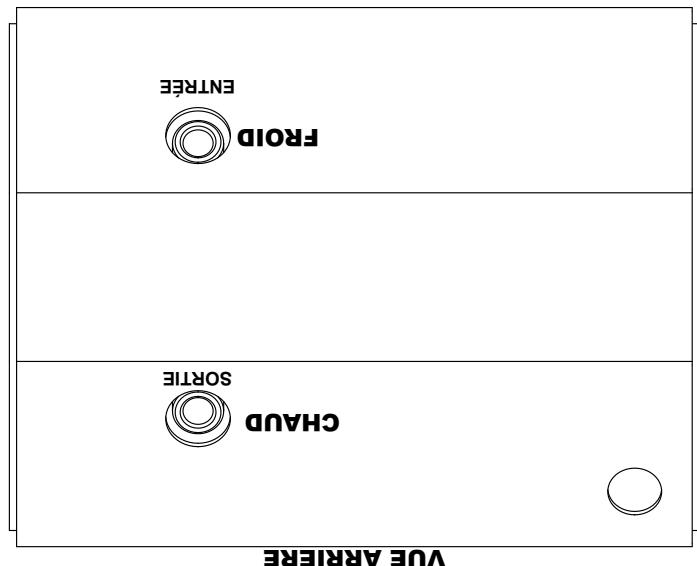


FIGURE 11



ASSÉMBLAGE D'INTERRUPTEUR,
DE LAMPE ET DE PLAQUE
(GAZ ET ELECTRIQUE)

FIGURE 10



VUE ARRIÈRE

FIGURE 9

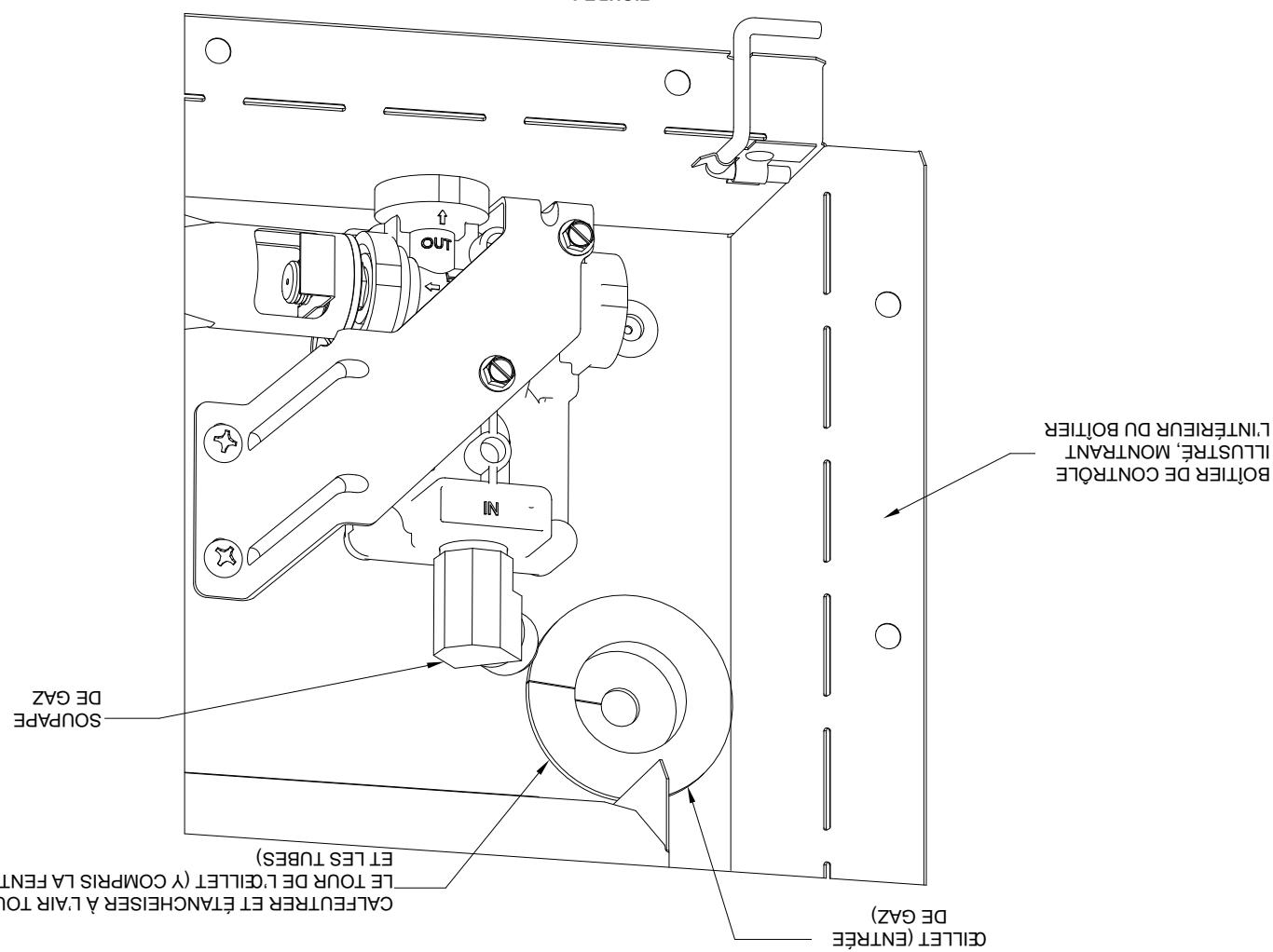


FIGURE 8

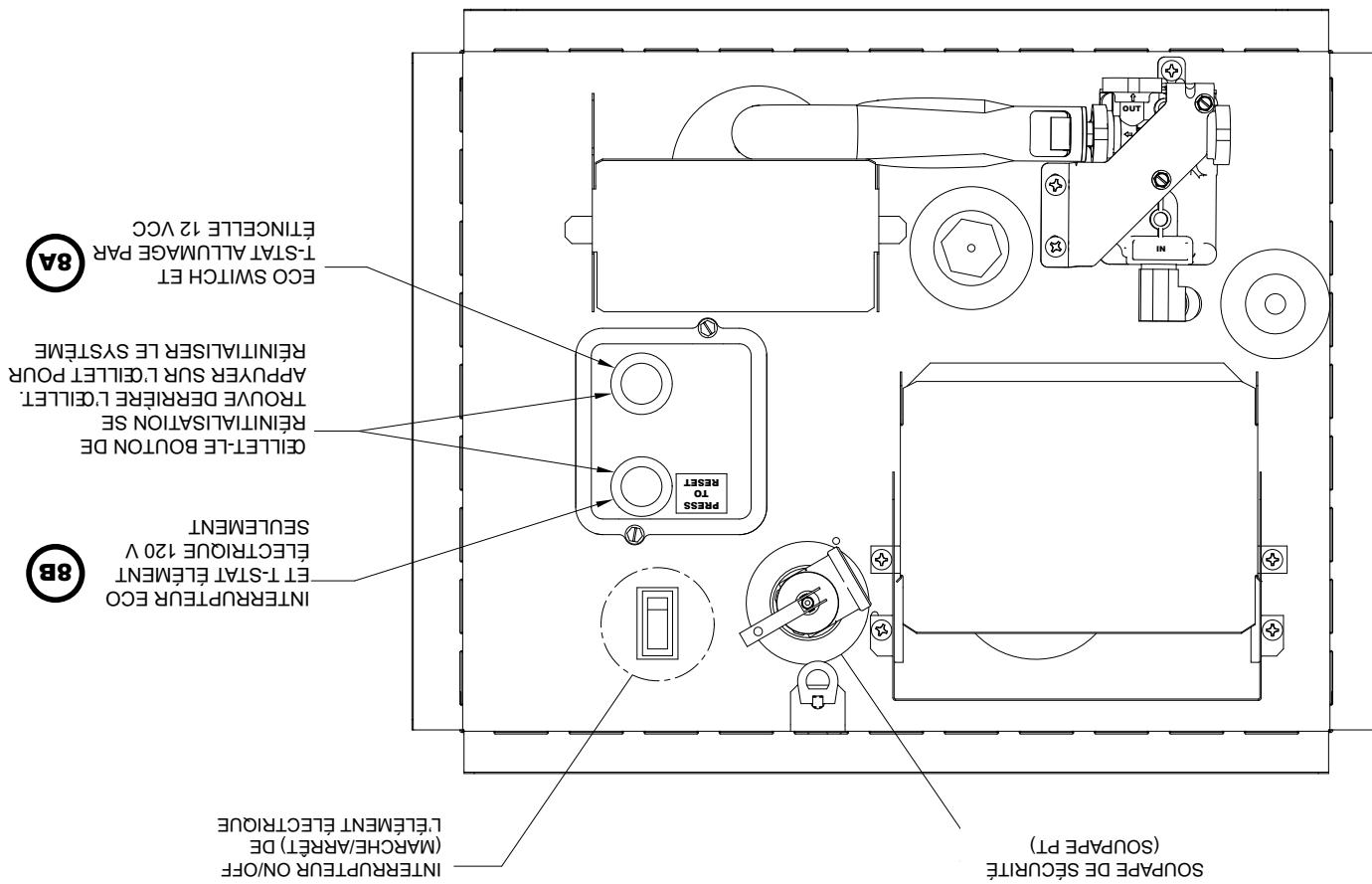


FIGURE 7

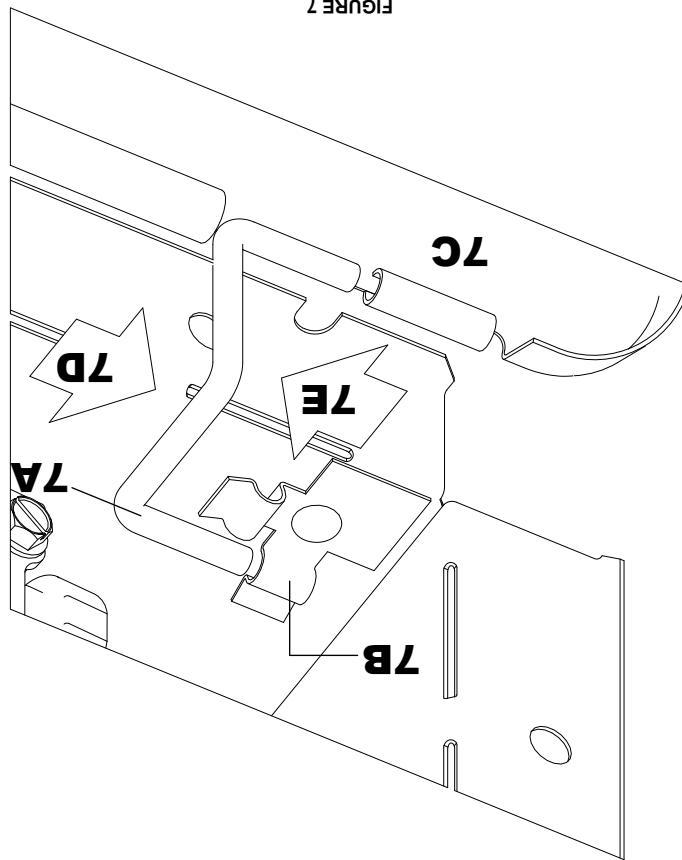
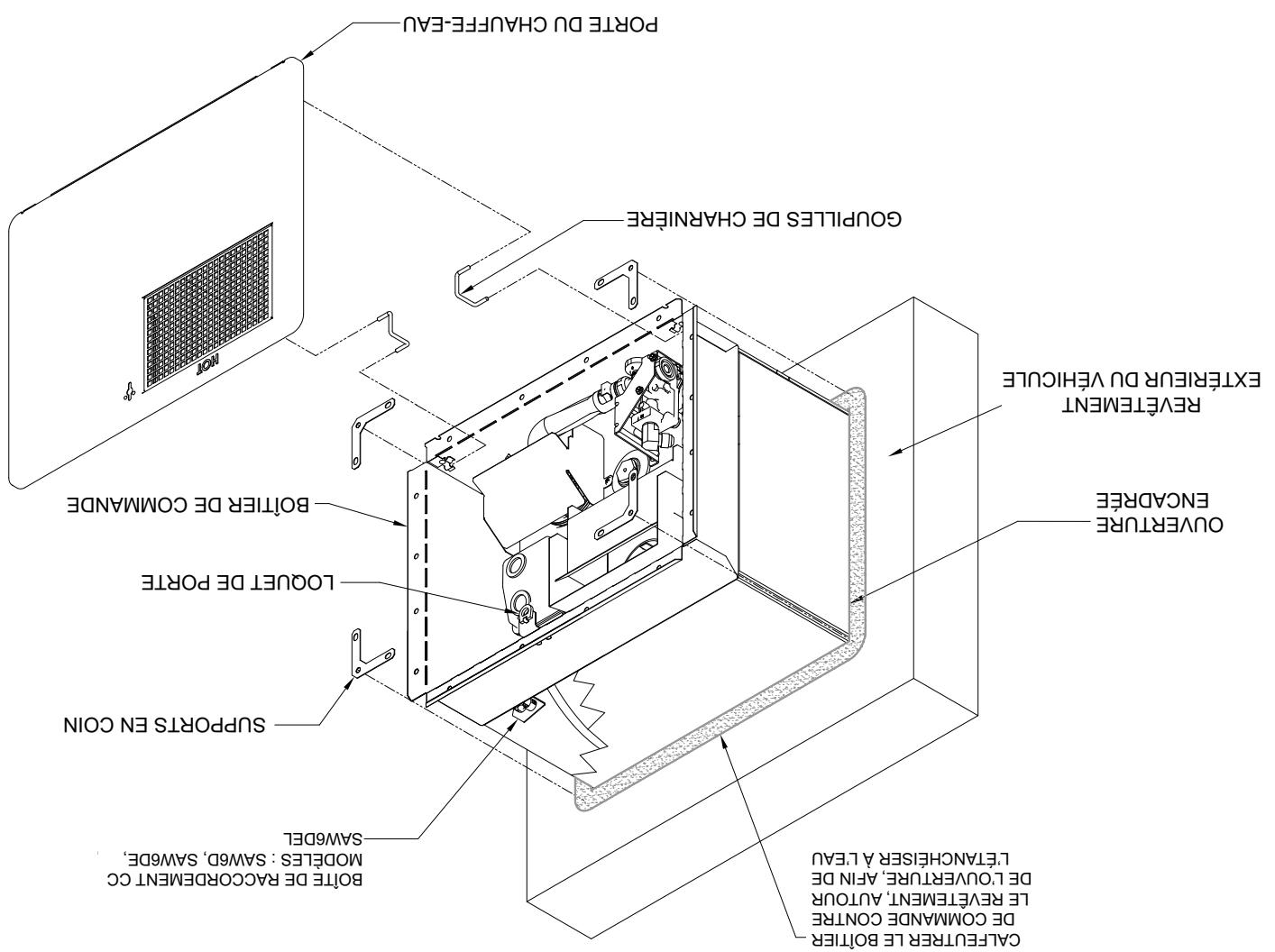
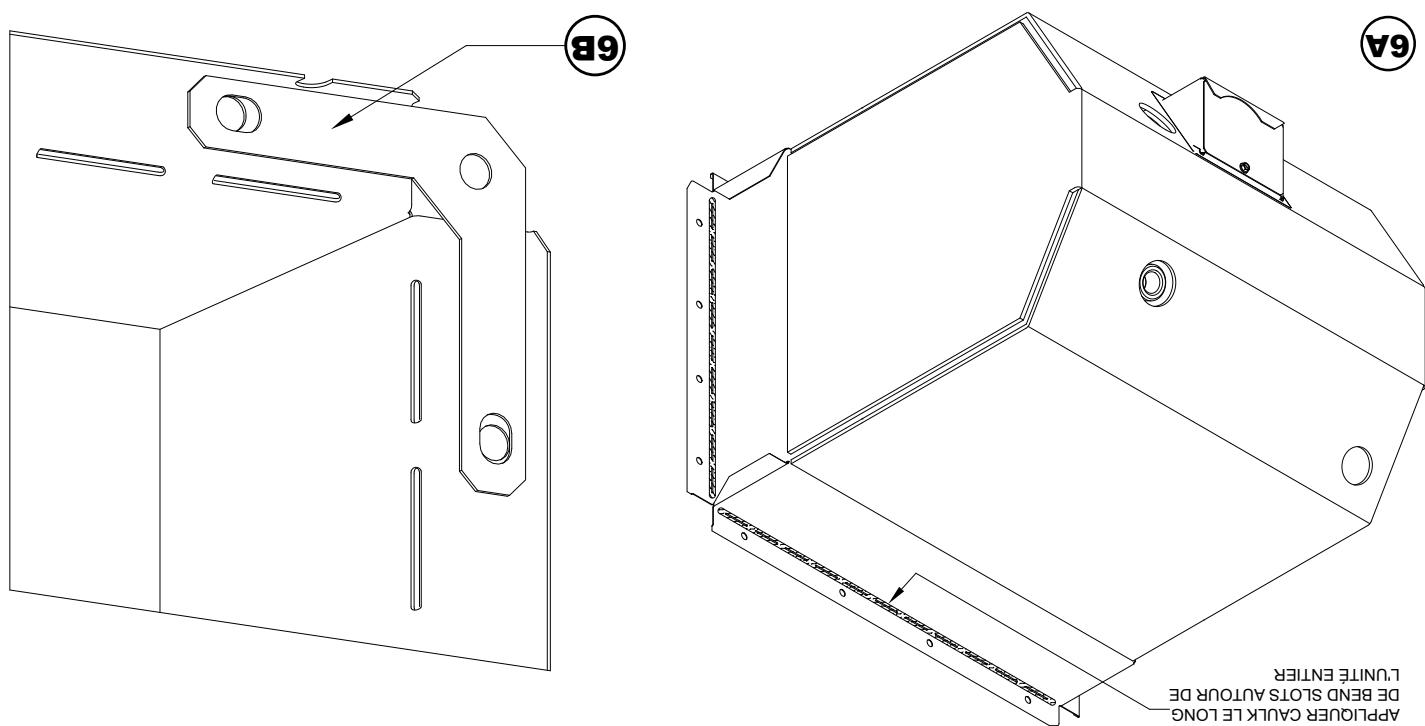
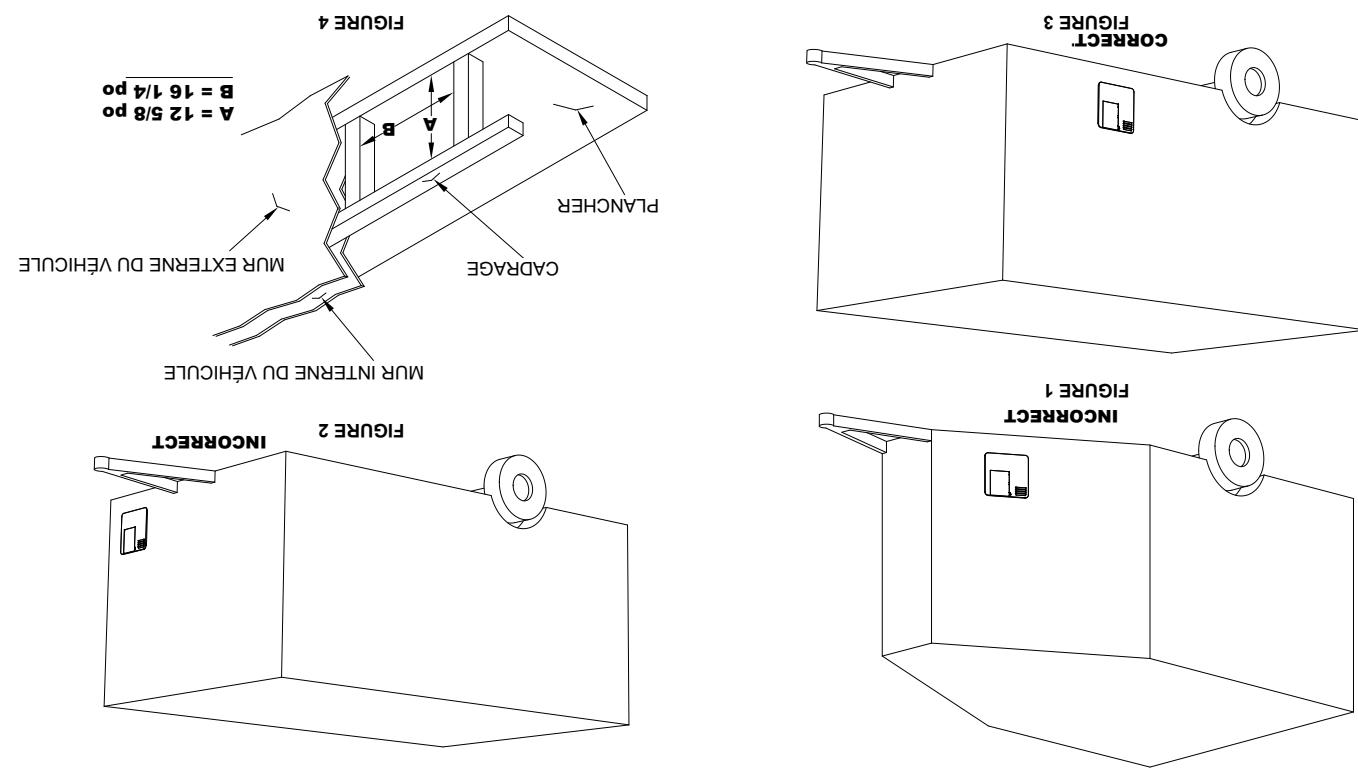
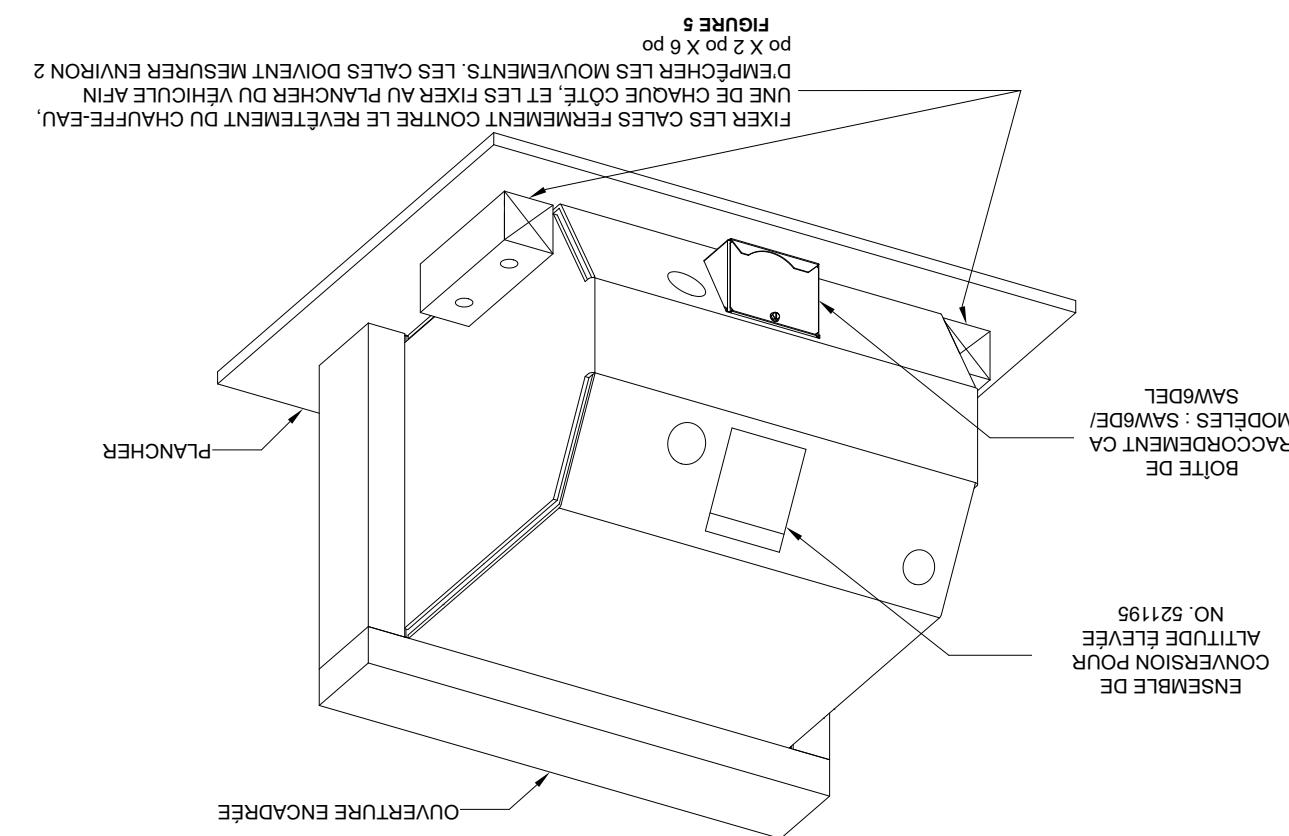


FIGURE 6





1. Fermer l'alimentation en gaz et débrancher le tuyau d'alimentation en gaz du chauffe-eau. Sur tous les modèles électriques, couper l'alimentation électrique, puis débrancher l'alimentation 120 Vca à la bouteille de raccordement électrique, puis à la bouteille des modèles à allumage à électricité directe, couper l'alimentation 12 Vcc à la nature du problème, prendre un rendez-vous (au besoin) et se charger de la liaison de votre VR avec l'appareil installé.
2. Contacter un centre d'entretien Suburban recommandé près de chez vous. Décrire la nature du problème, prendre un rendez-vous (au besoin) et se charger de la liaison de votre VR avec l'appareil installé.
3. Sur tous les modèles électriques, couper l'alimentation électrique, puis débrancher l'alimentation 120 Vca à la bouteille de raccordement électrique, puis à la nature du problème, prendre un rendez-vous (au besoin) et se charger de la liaison de votre VR avec l'appareil installé.
4. Désbrancher toutes les fils de la carte du module. Désbrancher les condensés d'eau sur la bouteille du chauffe-eau.
5. Fermer l'alimentation en eau. Vider l'eau du réservoir, conformément aux instructions dans « Vidange et stockage ».
6. Débrancher les condensés d'eau sur la bouteille du chauffe-eau.
7. Retirer les vis ou les clous fixant la bouteille de chauffe-eau. Pour le réinsérer, suivre les instructions du manuel dans « Instructions d'installation ».

TOUTS LES MODELES (Voir la Figure 8A)
Tous les modèles de chauffe-eau individuels ci-dessous sont équipés d'un dispositif de coupure automatique à température qui coupe le courant de chauffage au bout de 10 secondes si la température de l'eau dépasse 140 °F (60 °C). Pour activer le bouton de réinitialisation de l'eau soit éteindre le brûleur. Le bouton de réinitialisation de l'eau doit être au-dessous de 110 °F (43,3 °C) : appuyer sur le bouton de réinitialisation afin de réactiver le brûleur. Le bouton de réinitialisation de l'eau doit être au-dessous de 110 °F (43,3 °C) : appuyer sur le bouton de réinitialisation de l'eau afin de réinitialiser le chauffe-eau.

THERMOSTAT ET REINITIALISATION MANUELLE

INSTRUMENTS D'UTILISATION DES SAW6DE, SAW6DEL (Consulter la Figure 8)

Cet appareil n'a pas de veilleuse. Il possède un dispositif d'allumage qui allume automatiquement le briquet. Ne pas essayer d'allumer le briquet à la main.

AVANT L'UTILISATION, humer l'air tout autour de l'appareil afin d'y déceler une certaine odeur de gaz. Assurer de sentir un niveau au sol car certains gaz sont plus lourds que l'air et s'accumulent au niveau du sol.

Ne toucher à aucun endroit électrique ou utiliser aucun téléphone ou radio se trouvant dans le véhicule.

Ne pas faire démarrer le moteur du véhicule ou le générateur électrique.

Concentrer le fourisseur de gaz ou le générateur électrique le plus près possible de l'endroit où le gaz est formé et où il y a le moins de débris.

Si l'est possible de joindre un fourisseur de gaz ou un technicien pour les préparations.

Ne pas ouvrir l'alimentation en gaz jusqu'à ce que les tuyaux de gaz soient préparés.

L'installation doit être effectuée par un installateur qualifié, un service d'entretien ou le fournisseur de gaz.

Cet appareil a un robinet de gaz automatique, aucun réglage n'est nécessaire.

Ne pas utiliser cet appareil si une pièce a été immerge dans l'eau. Contactez immédiatement un technicien d'entretien qualifié pour inspecter l'appareil et remplacer toute pièce de la partie déommunade de tout contrôle des gaz qui a été immergée dans l'eau.

Avant de faire fonctionner le chauffe-eau, vérifier l'emplacement de l'évent pour assurer qu'il sera pas bloqué par l'ouverture d'une porte de la roulette. Si l'évent pour le chauffe-eau avec la chaffee-eau avec la porte ouverte.

Ne pas suivre ces instructions a la lette peut provoquer des dommages matériels et corporels et la mort. Un incendie ou une explosion pouvant causer des dommages matériels et corporels et la mort.

AVant d'utiliser le chauffe-eau, s'assurer que le réservoir est rempli d'eau. Consulter « Avertissements de sécurité ».

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INSTRUCtIONS D'UTILISATION AVEC GAZ

INFORMATIONS D'UTILISATION AVEC GAZ

POUR VOTRE SÉCURITÉ, LIRE AVANT L'UTILISATION

NE JAMAIS VÉRIFIER L'ÉTANCHÉITÉ AVANT UN FLAMME
NURE. ALLUMER LE GAZ ET APPLIQUER UNE SAVONNEUSE SUR TOUS LES RACCORDS AFIN DE VOIR SI DES
BULLES SE FORMENT.

18. Déconnecter l'appareil et sa vanne d'arrêt individuelle de la ligne d'alimentation en gaz pendant tout test de pression ou système excédant 1/2 PSIG (14 po colonne d'eau). Ne pas régler la pression à une valeur supérieure à celle indiquée sur la plaque signalétique de l'ensemble d'arrêt manuelle lorsque l'appareil de la canalisation d'alimentation en gaz est fermé.

REMARQUE : Pour éviter la propagation de la charnière, soutenir le couvercle d'accès et empêcher une force sur le coin de la poignée de charnière, comme illustré à la figure 7D.

17. a. Endécker la porte de la chambre (Figure 7A) dans l'attache (Figure 7B).
b. Fais gîsset la porte (Figure 7C) sur la goupille de charnière.

équivaleant. **Vol 1A Figure 6B:** terminer l'installatior en remplaçant le même type de vis no 8 dans les trous fourmis autour de la bride du bouteur du chameau.

16. Possessez un appareil contre le charriage de sacs + supports de coin aux véhicules avec vis à tête ronde n° 8 de 3/4 po (non fournis) ou un élastique de 1/2 po (non fourni) pour assurer la sécurité de l'opérateur.

Figure 6: Comparison of different types of self-treatments for scabies in the community.

13. Puis toutes les personnes de 30 à 70 ans qui sont éligibles à voter. Voilà figure 6a.
IMPORtant Pour empêcher les fuites d'eau, bien calfeutrer autour de l'ouverture, y compris les

POUR TERMINER L'INSTALLATION :

« Avertissements de sécurité ». **Champ à eau à recirculation adoucie eau/conservé**

AVANT de placer l'interrupteur pour l'élément électrique à la position « ON » (MARCHE), il faut remplir d'eau le réservoir du chauffe-eau. Consultez votre vendeur ou le fabricant pour obtenir des instructions sur la pose.

14. Consulter la plaque signalétique et le schéma de cablage approprié pour le modèle 12 ou 13 avant de commencer. Insérer un interrupteur dans la sécurité avec fusible ou un disjoncteur de 30 ampères. Insérer le câble de chauffage dans la boîte de raccordement du chauffage-eau. Il faut que les fils de raccordement soient étiquetés avec leur nom. Commencer les fils de raccordement avec la boîte de raccordement du disjoncteur auxiliaire. Il faut que les fils de raccordement soient étiquetés avec leur nom. Insérer le câble de chauffage-eau dans la boîte de raccordement du disjoncteur de 30 ampères. Insérer le câble de chauffage dans la boîte de raccordement du disjoncteur auxiliaire. Il faut que les fils de raccordement soient étiquetés avec leur nom. Assurez-vous que l'ensemble est étiqueté « OEE ». Avant d'activer l'alimentation 120 Vca à la boîte de raccordement du chauffage-eau, assurez-vous que l'ensemble est étiqueté « OEE ».

ATTENTION

REMARQUE : Ne pas installer le chauffe-eau avec

Installation de cet appareil doit étre effectuée conformément aux instructions écrits fournis dans ce manuel. Aucun agent, représentant ou employé de Suburban ou autre personne n'a autorité de changer, de modifier ou de renoncer à aucune disposition des instructions contenues dans ce manuel.

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CONDITIONS D'INSTALLATION

Le thermostat sur votre chauffe-eau ne peut pas étre ajusté. Il fonctionne selon une limite de captage de la température visant à maintenir une température d'eau de 54 °C (130 °F). Les températures de chauffage utilisées et les personnes âgées présentent un risque plus élevé de sébouillant. Veiller à ce que l'eau chaude soit utilisée pour les enfants, les personnes handicapées et les personnes âgées.

Ne pas entreposer ou utiliser de matériau ou de liquides combustibles à proximité de ce chauffe-eau. Cet appareil ne doit pas être installé à un endroit dans lequel il peut y avoir présence de liquides ou vapeurs inflammables.

REMARQUE : Lors du remplissage du réservoir d'eau du véhicule, toujours ouvrir les robinets d'eau chaude et d'eau froide afin permettre l'évacuation des poches d'air du chauffe-eau. Lorsque l'eau commence à couler des robinets, fermer les deux robinets.

Ne jamais faire fonctionner l'appareil si vous détectez une odeur de gaz. Ne pas présumer que l'odeur de gaz dans le VR est normale. Chaque fois qu'une odeur de gaz est détectée, elle doit être considérée comme représentant un danger majeur et elle doit être corrigée immédiatement. Étendre toutes les flammes nues, y compris les cigarettes, et allumer toutes les portes et fenêtres du véhicule. Couper l'alimentation en gaz au niveau du robinet de la bouteille. Consulter l'avis de sécurité sur la page 10.

au moment de l'asout d'une pièce, d'un porche ou d'un patio, la ventilation du chauffe-eau doit faire l'objet d'une attention particulière. Pour voter votre chauffe-eau vers l'intérieur la sortie de l'évent de sécurité, ne pas installer la sortie de l'évent de votre chauffe-eau vers l'intérieur d'une pièce, d'une véranda avec mouseïdaire ou d'un patio. Sinon, les produits de combustion seraient évacués dans une pièce ou dans une aire occupée.

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AVERTISSEMENT

Ne pas modifier le fonctionnement de chauffe-eau ou changer sa conception/construction. Les accessoires sont commercialisés pour les produits VR que nous ne recommandons pas. Pour votre sécurité, seules les pièces autorisées par le fabricant peuvent être utilisées sur le chauffe-eau. Vérifier régulièrement si l'évent est obstrué ou s'il y a présence de suie. La suie se forme lors d'une combustion incomplète. C'est une indication visuelle que le chauffe-eau ne fonctionne pas d'une manière sécuritaire. S'il y a de la suie, arrêter le chauffe-eau et contacter votre dépositaire ou un technicien qualifié.

En cas de surchauffe ou de non-fermeture de l'alimentation en gaz, fermer le robinet de gaz manuel de l'appareil avant de couper l'alimentation électrique.
Ne pas utiliser cet appareil si une pièce a été immergée dans l'eau. Appeler immédiatement un technicien en entretien qualifié pour inspecter l'appareil et remplacer toute pièce du système de contrôle ou de la commande de gaz qui a été immergée dans l'eau.
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De l'hydrogène gazeux pourrait être présent même après que l'eau ait été vidée du réservoir. Ouvrir le robinet à l'évier et laisser le système s'aérer pendant plusieurs minutes (5 à 10 minutes). Ne pas fumer et éloigner les femmes ouvertes du robinet ouvert. Ne pas essayer d'allumer la flamme pilote ou le brûleur principal. Sur les modèles à allumage à étincelle directe, s'assurer que l'interdit d'allumer est en position « OFF » (ARRÊT).

Si vous n'avez pas utilisé ce chauffe-eau pendant deux semaines ou plus, de l'hydrogène gazeux pourrait étre générée. L'hydrogène gazeux EXTREMEMENT INFAMMABLE. Pour réduire le risque de blessures dans ces conditions, ouvrir le robinet d'eau chaude pendant plusieurs minutes à l'évier de la cuisine avant d'utiliser tout appareil électrique branche au système d'eau chaude. Si de l'hydrogène est présent, vous entendrez probablement un son inhabituel lorsqu'eau commence à couler. comme de l'air qui s'échappe

Il est essentiel de remplir d'eau le réservoir du chauffe-eau avant de le faire fonctionner. Faire fonctionner le chauffe-eau sans eau dans le réservoir pourrait endommager le réservoir et les commandes. Ce type de dommages n'est pas couvert par la garantie limitée.

Toutes questions de nature technique ou relatives à la garantie doivent être adressées à l'entreprise figurant sur la garantie ou la plaque signalétique du chauffe-eau.

PROPRIÉTAIRE : conserver ces instructions et la garantie aux fins de consultation ultérieure.

INSTALLATEUR : apposer ces instructions sur un chauffe-eau.

Un distributeur est ajouté au gaz utilisé par ce chauffe-eau.

- **GAZ**
Ne pas entreposer ou utiliser d'essence ou d'autres vapeurs et liquides inflammables à proximité de l'appareil ou de tout autre appareil.
- **DANGER D'INCENDIE OU D'EXPLOSION**
Si les informations dans ces instructions ne sont pas suivies exactement, cela pourrait entraîner des dommages matériels, des blessures ou la mort.
- **A AVERTISSEMENT**
L'installation de cet appareil doit être effectuée conformément aux instructions écrites fournies dans ce manuel. Aucun agent, représentant ou démonstrateur ne peut modifier ou démonter l'appareil sans l'autorisation de Suburban ou autre personne n'a employé de Suburban ou autre personne n'a autorisé de changer, de modifier ou de renoncer à aucune disposition des instructions continues dans ce manuel.
- **GAZ A EVACUATION DIRECTE**
Ne pas entreposer ou utiliser d'essence ou d'autres vapeurs et liquides inflammables à proximité de l'appareil ou de tout autre appareil.
- **DANGER D'INCENDIE, D'EXPLOSION ET D'ASPHYXIAISON**
Ne touchez à aucun interrupteur électrique ou n'utilisez aucun téléphone ou radio se trouvant dans le véhicule.
- **GAZ**
Ne touchez à aucun interrupteur électrique ou n'utilisez aucun téléphone ou radio se trouvant dans le véhicule.
- **Couper l'alimentation en gaz au niveau du réservoir ou à la source.**
Ne pas sortir toutes les personnes du véhicule.
- **Couper l'alimentation en gaz au niveau du réservoir ou à la source.**
Ne touchez à aucun interrupteur électrique ou n'utilisez aucun téléphone ou radio se trouvant dans le véhicule.
- **Ne pas faire démarrer le moteur du véhicule ou le générer électrique.**
Ne pas faire démarrer le moteur du véhicule ou le générer électrique.
- **Contactez le fournisseur de gaz ou le technicien d'entretien qualifié le plus près.**
Ne pas ouvrir l'alimentation en gaz jusqu'à ce que les fuites de gaz soient préparées.
- **S'il n'est pas possible de joindre un fournisseur de gaz au niveau de la ville ou de la ville de l'installateur, contacter le service des incendies le plus près.**
S'il n'est pas possible de joindre un fournisseur de gaz au niveau de la ville ou de la ville de l'installateur, contacter le service des incendies le plus près.
- **Ne pas ouvrir l'alimentation en gaz jusqu'à ce que les fuites de gaz soient préparées.**
Ne pas ouvrir l'alimentation en gaz jusqu'à ce que les fuites de gaz soient préparées.
- **L'installation et l'entretien doivent être effectués par un installateur qualifié, un distributeur est ajouté au gaz utilisé par ce chauffe-eau.**
L'installation et l'entretien doivent être effectués par un installateur qualifié, un distributeur est ajouté au gaz utilisé par ce chauffe-eau.

A DES FINS D'INSTALLATION DANS DES VÉHICULES RÉCÉAIFS ET DES MAISONS MOBILES

ANSI Z22.10.1-2017 / CSA 4.1-2017
CERTIFIÉ SOUS :



MODÈLES :

SAW6DE
SAW6D
SAW6DE
SAW6D
SAW6DEL



ALLUMAGE À ÉTINCELLE DIRECTE | ÉLÉMENT ÉLECTRIQUE | RELAIS 12 V

SUBURBAN ADVANTAGE
GAZ A EVACUATION DIRECTE
CHAUFFE-EAU

**MANUEL D'INSTALLATION, DE FONC-
TIONNEMENT ET D'UTILISATION**

Vider le chauffe-eau s'il sera soumis à des températures sous le point de congélation.

A AVERTISSEMENT

CONTRE LE GEL

S'assurer que l'alimentation électrique du système d'allumage du chauffe-eau est éteinte pendant tout type de réapprovisionnement et lorsque le véhicule est en mouvement ou remorqué.

A AVERTISSEMENT

Lire et observer toutes les instructions et précautions de ce manuel. L'installation et l'entretien doivent être effectués par une agence d'entretien qualifiée ou le fournisseur de gaz.

Un réglage, une modification, un service, une réparation ou un entretien inadvertant peuvent entraîner des blessures ou la mort.

A AVERTISSEMENT

D'ASPHYXIAISON

Une disposition des instructions continues dans ce manuel.

A AVERTISSEMENT