

GAS-FIRED WATER HEATER

A Spanish language version of these instructions is available by contacting the company listed on the rating plate.

La versión española de estas instrucciones se puede obtener al escribirle a la fábrica cuyo nombre aparece en la placa de especificaciones.

INSTALLATION & OPERATION MANUAL For Flammable Vapor Ignition Resistance System Equipped Manufactured Home (Mobile Home) Water Heater

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

FOR YOUR SAFETY

— Do not store or use gasoline or other flammable, combustible, or corrosive vapors and liquids in the vicinity of this or any other appliance.

- WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

For your family's comfort, safety and convenience, it is recommended this water heater be installed and serviced by a plumbing professional.



CONGRATULATIONS!

You have just purchased one of the finest water heaters on the market today!

This installation, operation and instruction manual will explain in detail the installation and maintenance of your new Gas Water Heater. We strongly recommend that you contact a plumbing professional for the installation of this water heater.

We require that you carefully read this manual, as well as the enclosed warranty, and refer to it when questions arise. If you have any specific questions concerning your warranty, please consult the plumbing professional from whom your water heater was purchased. For your records we recommend that you write the model, serial number and installation date of your water heater in the maintenance section in the back of this manual.

This manual should be kept with the water heater.

Special Flammable Vapor Ignition Resistant System:

This water heater is equipped with a Flammable Vapor Ignition Resistant System. In the event of improper usage or storage of gasoline or other flammable materials in the location where the water heater is installed, the technology will resist ignition of the flammable vapors outside the confines of the water heater.

The Flammable Vapor Ignition Resistant System features:

- Advanced Flame Arrestor Design.
- Re-settable Thermal Switch to prevent burner/pilot operation with restricted airflow.
- Piezo Igniter
- Sight Window to observe operation of pilot and burner.

FOR YOUR SAFETY: Activation of the Flammable Vapor Ignition Resistant System occurs when flammable vapors are drawn into the water heater and are combusted. If flammable vapors are detected:

- Do not try to light any appliance.
- Do not touch any electrical switch; Do not use any phone in your building.
- Leave the premises and immediately call the fire department from a neighbor's phone. Follow the fire department's instructions.

Once the flammable vapor has been evacuated, contact your plumbing professional or the manufacturer for further instructions. Replacement of a Flammable Vapor Ignition Resistant System equipped water heater due to a flammable vapor shutdown is not covered under the terms of the limited warranty.



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GENERAL INFORMATION

This gas-fired water heater is design certified by the CSA International under the applicable American National Standard, Z21.10.1 or Z21.10.3-(as indicated on the rating plate) and CSA 4.1-(as indicated on the rating plate).

This water heater must be installed in accordance with local codes. In the absence of local codes, it must be installed in compliance with the National Fuel Gas Code (ANSI Z223.1-Latest Edition), or in Canada CAN/CGA B149.1 Natural Gas Installation Code (Latest Edition) or CAN/CGA B149.2 Propane Installation Code (Latest Edition). The warranty for this water heater is in effect only when the water heater is installed, adjusted, and operated in accordance with these Installation and Operating Instructions. The manufacturer will not be liable for any damage resulting from alteration and/or failure to comply with these instructions. This water heater must be installed in accordance with The Federal Manufactured Home Construction And Safety Standard Title 24 CRF. part 3280 or CAN/CSA Z240 MH series, mobile home. This water heater is designed certified for installation in a manufactured home (mobile home) only and must be installed in an enclosure that will completely separate the water heater combustion and venting systems from its interior. The water heater enclosure access door must be on the outside wall of the manufactured home (mobile home) only. Access to the water heater enclosure from the inside of the manufactured home (mobile home) is not permitted.

CSA International has tested a representative sample of this water heater design for its safety of operation. The CSA listing of this water heater includes the field installation of the following components: roof jack and heater tie down materials. These components for field installation may have been shipped with this heater and must be installed according to these instructions. No other components are approved for use with this water heater.

This water heater has been designed and certified for the purpose of heating potable water. The installation and use of this water heater for any purpose other than the heating of potable water may cause damage to the water heater, create a hazardous condition, and nullify the warranty.

CAUTION

Incorrect operation of this appliance may create a hazard to life and property and will nullify the warranty.

WARNING

Prior to connecting the gas supply line to a gas fired water heater, ensure that the gas supply line does not have moisture/water or dirt/scale inside the gas line. Commonly this check is done at the lowest point in the gas distribution system prior to gas burning appliances.

Do not use this appliance if any external part to the tank has been submerged in water. You should contact a qualified service technician to inspect the appliance and to replace any part of the control system including the combination gas control which has been submerged in water. See the Gas Connections section of this manual before servicing or replacing a water heater that has had any external part to the tank submerged In water.

DANGER

Do not store or use gasoline or other flammable, combustible, or corrosive vapors and liquids in the vicinity of this or any other appliance.

To comply with NSF requirements this water heater is to be:

- a) Sealed to the floor with sealant, in a smooth and easily cleanable way, or
- b) Installed with an optional leg kit that includes legs and/or extensions that provide a minimum clearance of 6" beneath the water heater.

This water heater has been manufactured for operation at altitudes from sea level to 2000 feet (610m) (unless otherwise specified on the water heater). For use of this appliance at an elevation greater than 2000 feet (610m), contact the dealer or manufacturer listed on the rating plate for information on any necessary modification. Uncorrected operation of this appliance may create a hazard to life and property.

IMPORTANT

Before proceeding, please inspect the water heater and components for possible damage. **DO NOT** install any damaged components. If damage is evident then please contact the supplier where the water heater was purchased or the manufacturer listed on the rating plate for replacement parts.

Make sure that you check the rating plate and combination gas control on the water heater to be certain that the type of gas being supplied corresponds with the marking on the rating plate and combination gas control.

A sacrificial anode(s) is used to extend tank life. Removal of any anode, except for inspection and/or replacement, will nullify the warranty. In areas where water is unusually active, an odor may occur at the hot water faucet due to a reaction between the sacrificial anode and impurities in the water. If this should happen, an alternative anode(s) may be purchased from the supplier that installed this water heater. This will minimize the odor while protecting the tank. Additionally, the water heater should be flushed with appropriate dissolvers to eliminate any bacteria.

WARNING

This product contains one or more chemicals known to the State of California to cause cancer, birth defects, or reproductive harm.

INSTALLATION

Locating the Water Heater

WARNING

Water heaters are heat producing appliances. To avoid damage or injury there shall be no materials stored against the water heater or vent-air intake system and proper care must be taken to avoid unnecessary contact (especially by children) with the water heater and vent-air intake components. **UNDER NO CIRCUMSTANCES SHALL FLAMMABLE MATERIALS, SUCH AS GASOLINE OR PAINT THINNER BE USED OR STORED IN THE VICINITY OF THIS WATER HEATER, VENT-AIR INTAKE SYSTEM OR IN ANY LOCATION FROM WHICH FUMES COULD REACH THE WATER HEATER OR VENT-AIR INTAKE SYSTEM.**

Installation continued-

DO NOT install the water heater in any location where gasoline or flammable vapors are likely to be present. This water heater **MUST** be installed indoors out of the wind and weather.

The location of this water heater is of the utmost importance. Before installing this water heater, read the installation section of these instructions. After reading these installation and operating instructions, select a location for the water heater where the floor is level and is easily accessible to gas and water supply lines. **DO NOT locate the water heater where water lines could be subjected to freezing temperatures.** Make sure the cold water pipes are not located directly above the gas control so that condensate during humid weather does not drip on the controls.

Water heater corrosion and component failure can be caused by the heating and breakdown of airborne chemical vapors. Examples of some typical compounds that are potentially corrosive are: spray can propellants, cleaning solvents, refrigerator and air conditioning refrigerants, swimming pool chemicals, calcium and sodium chloride, waxes and process chemicals. These materials are corrosive at very low concentration levels with little or no odor to reveal their presence. **NOTE: DAMAGE TO THE WATER HEATER CAUSED BY EXPOSURE TO CORROSIVE VAPORS IS NOT COVERED BY THE WARRANTY. DO NOT OPERATE THE WATER HEATER IF EXPOSURE HAS OR WILL OCCUR. DO NOT STORE ANY POTENTIALLY CORROSIVE COMPOUNDS IN THE VICINITY OF THE WATER HEATER.**

For exact venting specifications, please consult the Venting section, located on page 8, of these Installation and Operating Instructions.

Note: For California installation this water heater must be braced, anchored, or strapped to avoid falling or moving during an earthquake. See instructions for correct installation procedures. Instructions may be obtained from DSA Headquarters Office, 1102 Q Street, Suite 5100, Sacramento, CA 95811.

⚠ WARNING

Liquefied petroleum gases/propane gas are heavier than air and will remain at floor level if there is a leak. Basements, crawl spaces, closets and areas below ground level will serve as pockets for accumulation of leaking gas. Before lighting, smell all around the appliance area for gas. Be sure to smell next to the floor.

IF YOU SMELL GAS:

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any telephone in your building.
- Immediately call your gas supplier from a neighbor's telephone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

DO NOT OPERATE APPLIANCE UNTIL LEAKAGE IS CORRECTED!

WARNING

DO NOT ATTEMPT TO LIGHT ANY GAS APPLIANCE IF YOU ARE NOT CERTAIN OF THE FOLLOWING:

- Liquefied petroleum gases/propane gas and natural gas have an odorant added by the gas supplier that aids in detection of the gas.
- Most people recognize this odor as a “sulfur” or “rotten egg” smell.
- Other conditions, such as “odorant fade” can cause the odorant to diminish in intensity, or “fade”, and not be as readily detectable.
- If you have a diminished sense of smell, or are in any way unsure of the presence of gas, immediately contact your gas supplier from a neighbor’s telephone.
- Gas detectors are available. Contact your gas supplier or plumbing professional for more information.

This water heater must be located in an area where leakage of the tank, water line connections, or the combination temperature and pressure relief valve will not result in damage to the area adjacent to the water heater or to lower floors of the structure. When such locations cannot be avoided, suitable drain pan, adequately drained, must be installed under the water heater. The drain pan must have a minimum length and width of at least 4 in. (10.2 cm) greater than the diameter of the water heater and must not restrict proper combustion air flow to the water heater. The drain pan, as described above, can be purchased from your plumbing professional. The drain pan must be piped to an adequate drain. The piping must be at least 3/4 inch (1.9 cm) in diameter and pitched for proper drainage.

It is recommended that a minimum clearance of 4 inches (10.2 cm) be provided on the side of the water heater for servicing and maintenance of the combination temperature and pressure relief valve.

Minimum Clearances

WARNING

Failure to adhere to these installation and operating instructions may create a hazard to life and property and will nullify the warranty.

This installation must allow access to the front of the water heater and adequate clearance must be provided for servicing and operating this water heater. The water heater may be installed on either a combustible or non-combustible floor. If the water heater is to be installed directly on carpeting, it must be installed on top of a metal or wood panel (or equivalent) extending beyond the full width and depth of the appliance by at least 3 inches (7.6 cm) in any direction or, if the appliance is to be installed in an alcove or closet, the entire floor must be covered by the panel, increase distances to provide clearance for servicing.

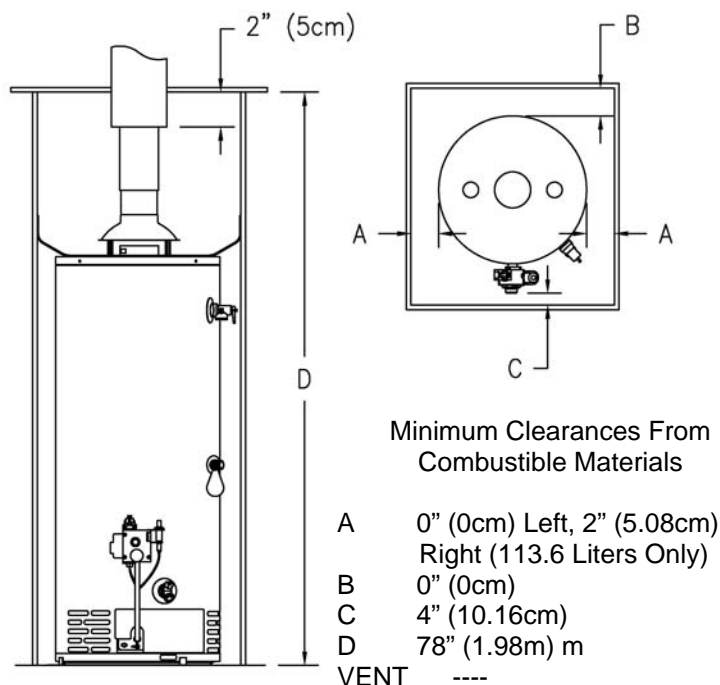


Figure 1

Venting

⚠ WARNING

The vent system must be installed properly. Failure to properly install the vent system could result in property damage, personal injury, or death.

Make certain the flue baffle is in place and centered in flue tube. Place the draft diverter over the flue opening at the top of the water heater by inserting the tips of the draft diverter legs into the four (4) holes provided in the water heater top. Cut a 7 1/4 inch (18.5cm) diameter hole in the ceiling and roof directly above the flue of the water heater. Center the water heater beneath the 7 1/4 inch (18.5cm) diameter holes in the roof and ceiling for proper alignment of the draft diverter and roof jack vent. Apply non-hardening mastic on the roof, around the previously cut hole, to form a weather seal with the flashing of the gas vent roof jack assembly. Insert gas vent roof jack assembly from above and fasten the flashing to the roof through the pre-punched holes in the flashing. **Note: Only the roof jacks listed in Figure 2 can be used on this water heater.** Apply additional non-hardening mastic to complete the weather seal. Slip the 3inch (7.62cm) vent connector extension that is shipped telescoped, into the gas vent roof jack assembly down onto the draft diverter that is secured to the top of the water heater and fasten with the two (2) sheet metal screws provided.

TYPICAL INSTALLATION (VENTING)

Roof jack. This water heater shall use the following roof jack only:
BRADFORD WHITE
12" fixed = 239-37030-01
18"-32" telescoping = 239-37030-02
32"-60" telescoping = 239-37030-03
48"-95" telescoping = 239-37030-04

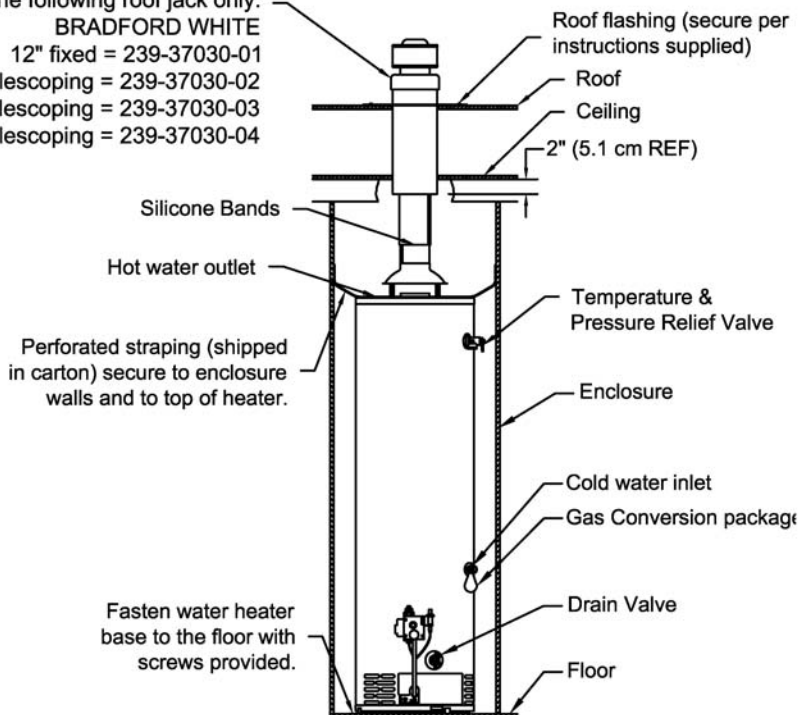


Figure 2

Combustion Air Supply

⚠ WARNING

Liquefied petroleum gases/propane gases are heavier than air and will remain at floor level if there is a leak. Basements, crawl spaces, closets and areas below ground level will serve as pockets for accumulation of leaking gas. Before lighting, smell all around the appliance area for gas. Be sure to smell next to the floor.

IF YOU SMELL GAS:

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any telephone in your building.
- Immediately call your gas supplier from a neighbor's telephone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

DO NOT OPERATE APPLIANCE UNTIL LEAKAGE IS CORRECTED!

IMPORTANT

The flow of combustion and ventilating air must not be obstructed.

Combustion Air Supply continued-

All combustion air must be supplied from outdoors by one of the following installation methods and as illustrated in Figure 2. The flow of combustion and ventilating air must not be obstructed. Adequate air must be supplied for combustion and ventilation. An insufficient supply of air will cause recirculation of combustion products resulting in air contamination that may be hazardous to life. Such a condition often will result in a yellow, luminous burner flame, causing carboning or sooting of the combustion chamber, burners and flue tubes with possible damage to the heater.

A minimum 34 in² (86.4cm²) opening area is required to supply fresh air to the water heater for combustion. Cut a 4" x 8 1/2" (10.2cm x 21.6cm) rectangular opening in the outside access door panel with the bottom side of the opening being 6" (15.3cm) from the bottom access door panel. A protective cover for this fresh air opening is suggested to resist the entrance of rodents.

WARNING

Be sure protective cover still allows adequate fresh air opening area.

The water heater is to be secured in place using the supplied sheet metal strapping and screws. Fasten the base of the water heater to the floor using the screws provided. The perforated metal strapping must be fastened to the top of the water heater and to the adjacent walls with the screws provided (See Figure 2).

Water Connections

NOTE: BEFORE PROCEEDING WITH THE INSTALLATION, CLOSE THE MAIN WATER SUPPLY VALVE.

After shutting off the main water supply, open a faucet to relieve the water line pressure to prevent any water from leaking out of the pipes while making the water connections to the water heater. After the pressure has been relieved, close the faucet. The COLD water inlet is identified on the side of the water heater and HOT water outlet is identified on the top of the water heater. The fittings at the cold water inlet and hot water outlet are dielectric waterway fittings with 3/4" NPT male thread. Make the proper plumbing connections between the water heater and the plumbing system to the house. Install a shut-off valve in the cold water supply line.

CAUTION

If sweat fittings are to be use, **DO NOT** apply heat to the nipples on the water heater. Sweat the tubing to the adapter before fitting the adapter to the water connections. It is imperative that heat is not applied to the nipples containing a plastic liner.

WARNING

FAILURE TO INSTALL AND MAINTAIN A NEW, LISTED 3/4" X 3/4" TEMPERATURE AND PRESSURE RELIEF VALVE WILL RELEASE THE MANUFACTURER FROM ANY CLAIM WHICH MIGHT RESULT FROM EXCESSIVE TEMPERATURE AND PRESSURES.

If this water heater is installed in a closed water supply system, such as the one having a back-flow preventer in the cold water supply, provisions must be made to control thermal expansion. **DO NOT** operate this water heater in a closed system without provisions for controlling thermal expansion. Your water supplier or local plumbing inspector should be contacted on how to control this situation. After installation of the water lines, open the main water supply valve and fill the water heater. While the water heater is filling, open several hot water faucets to allow air to escape from the water system. When a steady stream of water flows through the faucets, close them and check all water connections for possible leaks. **NEVER OPERATE THE WATER HEATER WITHOUT FIRST BEING CERTAIN IT IS FILLED WITH WATER.**

WARNING

For protection against excessive temperatures and pressure, install temperature and pressure protective equipment required by local codes, but not less than a combination temperature and pressure relief valve certified by a nationally recognized testing laboratory that maintains periodic inspection of production of listed equipment or materials as meeting the requirements of the Standard for *Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems*, ANSI Z21.22 or the Standard CAN1-4.4, *Temperature and Pressure* and the Standard CAN1-4.4, *Temperature, Pressure, Temperature and Pressure Relief Valves and Vacuum Relief Valves*. The combination temperature and pressure relief valve must be marked with a maximum set pressure not to exceed the maximum working pressure of the water heater. The combination temperature and pressure relief valve must also have an hourly rated temperature steam BTU discharge capacity not less than the hourly rating of the water heater. Install the combination temperature and pressure relief valve into the opening provided and marked for this purpose on the water heater.

Note: Some models may already be equipped or supplied with a combination temperature and pressure relief valve. Verify that the combination temperature and pressure relief valve complies with local codes. If the combination temperature and pressure relief valve does not comply with local codes, replace it with one that does. Follow the installation instructions above on this page.

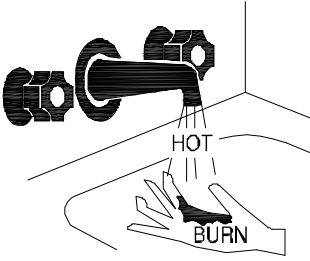
Install a discharge line so that water discharged from the combination temperature and pressure relief valve will exit within six (6) inches (15.2 cm) above, or any distance below the structural floor and cannot contact any live electrical part. The discharge line is to be installed to allow for complete drainage of both the combination temperature and pressure relief valve and the discharge line. The discharge opening must not be subjected to blockage or freezing. **DO NOT** thread, plug or cap the discharge line. It is recommended that a minimum clearance of four (4) inches (10.2 cm) be provided on the side of the water heater for servicing and maintenance of the combination temperature and pressure relief valve. Do not place a valve between the combination temperature and pressure relief valve and the tank.

⚠ WARNING

Hydrogen gas can be produced in an operating water heater that has not had water drawn from the tank for a long period of time (generally two weeks or more). Hydrogen gas is extremely flammable. To prevent the possibility of injury under these conditions, we recommend the hot water faucet to be open for several minutes at the kitchen sink before you use any electrical appliance which is connected to the hot water system. If hydrogen is present, there will be an unusual sound such as air escaping through the pipes as hot water begins to flow. Do not smoke or have open flame near the faucet at the time it is open.

This water heater can deliver scalding temperature water at any faucet in the system. Be careful whenever using hot water to avoid scalding injury. Certain appliances such as dishwashers and automatic clothes washers may require increased temperature water. By setting the thermostat on this water heater to obtain the increased temperature water required by these appliances, you may create the potential for scald injury. To protect against injury, you should install an ASSE approved mixing valve in the water system. This valve will reduce point of discharge temperature by mixing cold and hot water in branch supply lines. Such valves are available from the manufacturer of this water heater or a local plumbing supplier. Please consult with a plumbing professional.

⚠ DANGER



Water temperature over 125°F can cause severe burns instantly or death from scalds.

Children, disabled and elderly are at highest risk of being scalded.

Review this instruction manual before setting temperature at water heater.

Feel water before bathing or showering.

Temperature limiting valves are available.

APPROXIMATE TIME/TEMPERATURE RELATIONSHIPS IN SCALDS

120°F (49°C)	More than 5 minutes
125°F (52°C)	1½ to 2 minutes
130°F (54°C)	About 30 seconds
135°F (57°C)	About 10 seconds
140°F (60°C)	Less than 5 seconds
145°F (63°C)	Less than 3 seconds
150°F (66°C)	About 1½ seconds
155°F (68°C)	About 1 second

Gas Connections

The gas supply lines must meet all requirements of the National Fuel Gas Code (ANSI Z223.1-Latest Edition), or in Canada CAN/CGA B149.1 Natural Gas Installation Code (Latest Edition) or CAN/CGA B149.2 Propane Installation Code (Latest Edition).

The minimum permissible gas supply pressure for the purpose of input adjustment is one (1.0) inch (0.25 kPa) water column above the operating manifold pressure. See the rating plate and gas valve for the manifold pressure and gas type. The maximum permissible gas supply pressure is fourteen (14.0) inches (3.5 kPa) water column for natural gas and liquefied petroleum gases/propane gas.

1. Connect this water heater only to the type of gas (Natural or Propane gas) as shown on the rating plate. Use clean black iron pipe or equivalent material approved by local codes and ordinances. (Dirt and scale from the pipe can enter the gas valve and cause it to malfunction). The inlet gas line must have a minimum length of three (3) inches (7.6 cm) drip leg (*sediment trap*) installed as close to the water heater's gas valve as possible. A ground joint union must be installed as close to the water heater as possible in the gas supply line feeding the water heater to permit servicing of the water heater. Compounds used on the threaded joints of the gas piping must be resistant to the action of liquefied petroleum gases/propane gas. **DO NOT** apply pipe dope to the gas valve inlet and make certain that no pipe dope has become lodged in the inlet screen of the gas valve. Extreme care must be taken to ensure no pipe dope enters the gas valve. Avoid excessive torque when tightening the gas supply line to the gas valve. Excessive torque may result in cracking of the gas valve housing and could create a gas leak. When tightening gas supply line to L.P. control, it is recommended to hold the inlet body of the control securely with an adequate wrench. The suggested maximum torque is 31.5 ft. lbs. (4.4 kg-m).

WARNING

The manufacturer of this water heater will not be liable for any damage or injury caused as a result of a cracked gas inlet as a result of excessive torque.

2. This water heater and its gas connection must be leak tested before placing the water heater in operation. Check for gas leaks with a soap and water solution and a brush or a commercial leak detector fluid. **NEVER USE A MATCH OR OPEN FLAME FOR TESTING!**

CAUTION

The water heater and individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressures in excess of 1/2 psi (3.5 kPa). The water heater must be isolated from the gas supply piping system by closing its manual shutoff valve during any pressure testing of the gas supply system at test pressures equal to or less than 1/2 psi (3.5 kPa). The supply line must be capped when not connected to the water heater.

3. While checking for leaks care must be taken to prevent solution from contacting the electrical connections at the control. If electrical connections at the control become wet, they must be thoroughly dried before attempting to operate the water heater.

Gas Conversion Instructions

Unless specifically ordered for operation on natural gas, this water heater is normally equipped for operation on liquefied petroleum (LP) gas but may be converted by following these gas conversion instructions.

Caution: Make sure gas to be supplied to this water heater following the conversion matches the gas being converted to.

⚠ CAUTION

All gas conversions must be performed by qualified service personnel only.

To convert from L.P. gas to natural gas (For Robertshaw control shown in figure 3 only)

- 1) Depress and rotate gas control knob clockwise ↻ to the "OFF" position.
- 2) Change main gas regulator by removing cap from gas regulator. Depress and rotate knob clockwise ↻ to NAT. setting using a screwdriver. Replace cap.

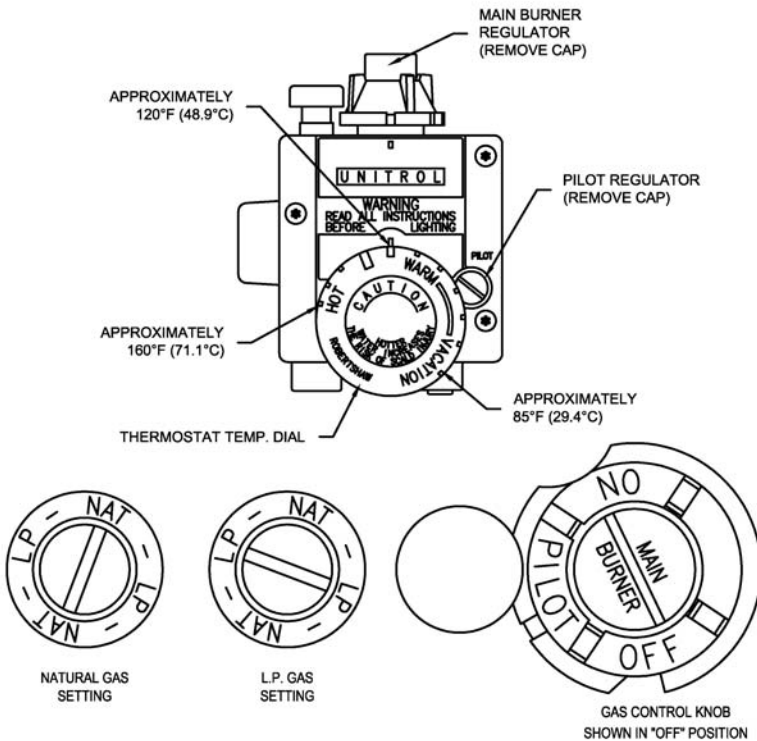


Figure 3

- 3) Change the pilot regulator by removing pilot regulator cap. Depress and rotate knob counterclockwise ↻ to the NAT. setting using a screwdriver. Replace cap.
- 4) Remove the outer door. Remove inner door as instructed below.
 - a) Inner Door Removal.
 - i) Disconnect resettable thermal switch wire leads (leading from combination thermostat/gas valve).

- ii) Remove (2) 1/4" hex drive screws from right side inner door.
 - iii) Remove (2) 1/4" drive screws from flange section of inner door.
 - iv) Remove (2) 1/4" drive screws from left side inner door.
 - v) Remove inner door and inspect per step 4b.
- b) Fully inspect inner door gaskets for the following:
- Tears
 - Missing Material
 - Cracks
 - Dirt or debris
 - Other imperfections that will inhibit proper seal
 - Gasket adhesion to inner door
 - Material left on combustion chamber (around opening)
- c) If the gasket is not affected by any of the above, gasket replacement is not required.
- d) If gasket replacement is required, contact manufacturer for inner door gasket replacement kit.

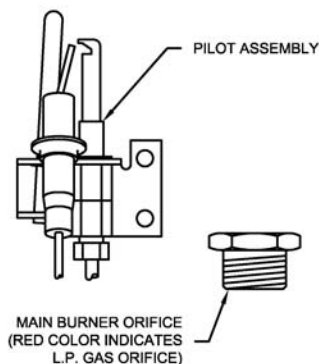
IMPORTANT

If gasket replacement is required, contact manufacturer for inner door gasket replacement kit.

⚠ WARNING

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

- 5) Disconnect thermocouple, gas supply tube and pilot tube from the gas valve and remove the burner assembly from the water heater.
- 6) Remove the "RED" color coded L.P. orifice and pilot assembly and replace with natural gas orifice and pilot assembly provided in the cloth bag attached to the water heater.
- 7) Replace the burner assembly, reconnect all fittings and check for leaks. Refer to "Gas Connections".
- 8) Replace inner doors with the following procedure.
 - a) Clean any residual gasket residue or other debris from combustion chamber surface before installing the inner door/gasket assembly.



- b) Place the left side inner door into position first. Firmly position the radiused channel of the inner door around the feedline. Using the 1/4" hex drive screws from step 4, secure left side inner door in place. **DO NOT OVER TIGHTEN SCREWS.**
- c) Position thermocouple, pilot tube and Piezo wire against left side inner door flange gasket. **DO NOT ROUTE THROUGH RADIUSED CHANNEL WITH FEEDLINE.**

⚠ WARNING

Stripped fastener connections may allow for seal breach of inner door. A seal breach may result in a fire or explosion causing property damage, personal injury or death. Do not over tighten screws.

If a fastener connection is stripped, contact the manufacturer listed on the water heater rating plate.

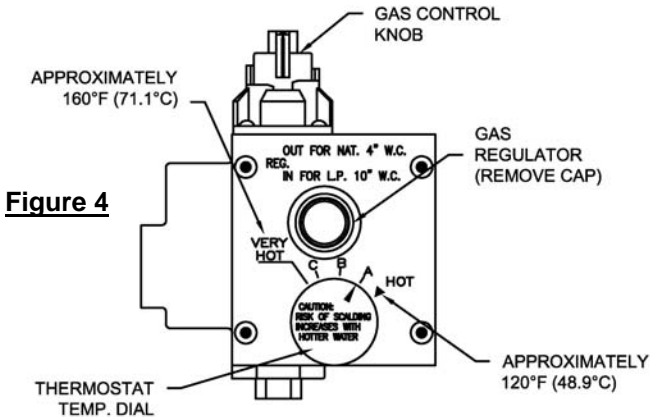
- d) Firmly place right side inner door flange against the left side inner door flange and secure with two 1/4" drive screws from step 4. **DO NOT OVER TIGHTEN SCREWS.**
- e) Align right side inner door to combustion chamber and verify the fastener holes of the combustion chamber are aligned with the right side inner door slotted opening. Verify seal integrity around combustion opening. Secure right side inner door using 1/4" hex drive screws from step 4. **DO NOT OVER TIGHTEN SCREWS.** Verify both left and right sides of the inner door are properly positioned and sealed against the combustion chamber.
- f) Reconnect lead wires from combination thermostat/gas valve to resettable thermal switch. Note, wire terminations are interchangeable with either resettable thermal switch connections.
- g) Replace outer jacket burner access door.
- 9) To light pilot, follow the lighting instructions provided on the water heater and in this installation and operation instruction manual.
- 10) Remove "equipped for" card from cloth bag and attach to gas piping as close to gas control as possible. Remove and discard tag attached to water inlet fitting of the water heater.

**To convert from natural gas to LP gas
(For control shown in figure 3 only)**

- 1. Follow the instructions above except add the "RED" main burner orifice and pilot assembly. Replace with the ones originally provided with the water heater.
- 2. Change the main gas regulator to "LP" as noted in step 2 of the instructions.
- 3. Change the pilot regulator to "LP" as noted in step 3 of the instructions.
- 4. Replace "equipped for" tag with tag supplied in cloth bag for gas being used.

To convert from L.P. gas to natural gas (For White Rogers control shown in figure 4 only)

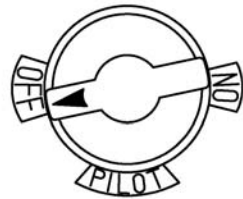
- 1) Rotate and partially depress gas control knob clockwise to "OFF" position.
- 2) Change gas regulator setting by removing cap from gas regulator. Depress and rotate plunger clockwise with a screwdriver releasing plunger.



Gas Regulator
shown in LP Gas
position



Gas Regulator
shown in Natural Gas position



Gas knob shown in "OFF" position

- 3) Replace cap.
- 4) Remove the outer door. Remove inner door as instructed below.
 - a) Inner Door Removal.
 - i) Disconnect resettable thermal switch wire leads (leading from combination thermostat/gas valve).
 - ii) Remove (2) 1/4" hex drive screws from right side inner door.
 - iii) Remove (2) 1/4" drive screws from flange section of inner door.
 - iv) Remove (2) 1/4" drive screws from left side inner door.
 - v) Remove inner door and inspect per step 4b.
 - b) Fully inspect inner door gaskets for the following:
 - Tears
 - Missing Material
 - Cracks
 - Dirt or debris
 - Other imperfections that will inhibit proper seal
 - Gasket adhesion to inner door
 - Material left on combustion chamber (around opening)

- c) If the gasket is not effected by any of the above, gasket replacement is not required.
- d) If gasket replacement is required, contact manufacturer for inner door gasket replacement kit.

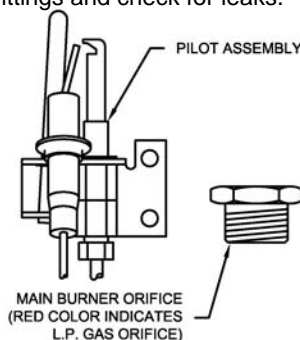
IMPORTANT

If gasket replacement is required, contact the manufacturer for inner door gasket replacement kit.

⚠ WARNING

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

- 5) Disconnect thermocouple, gas supply tube, and pilot from gas valve and remove burner assembly from water heater.
- 6) Remove "RED" color coded main burner orifice and pilot assembly and replace with orifice and pilot assembly provided in cloth bag attached to the water heater.
- 7) Replace the burner assembly and reconnect all fittings and check for leaks.
- 8) Refer to "Gas Connections".
- 9) Replace inner doors with the following procedure.
 - a) Clean any residual gasket residue or other debris from combustion chamber surface before installing the inner door/gasket assembly.
 - b) Place the left side inner door into position first. Firmly position the radiused channel of the inner door around the feedline. Using the 1/4" hex drive screws from step 4, secure left side inner door in place. **DO NOT OVER TIGHTEN SCREWS.**
 - c) Position thermocouple, pilot tube and Piezo wire against left side inner door flange gasket. **DO NOT ROUTE THROUGH RADIUSED CHANNEL WITH FEEDLINE.**



⚠ WARNING


Stripped fastener connections may allow for seal breach of inner door. A seal breach may result in a fire or explosion causing property damage, personal injury or death. Do not over tighten screws.

If a fastener connection is stripped, contact the manufacturer listed on the water heater rating plate.

Gas Conversion Instructions continued-

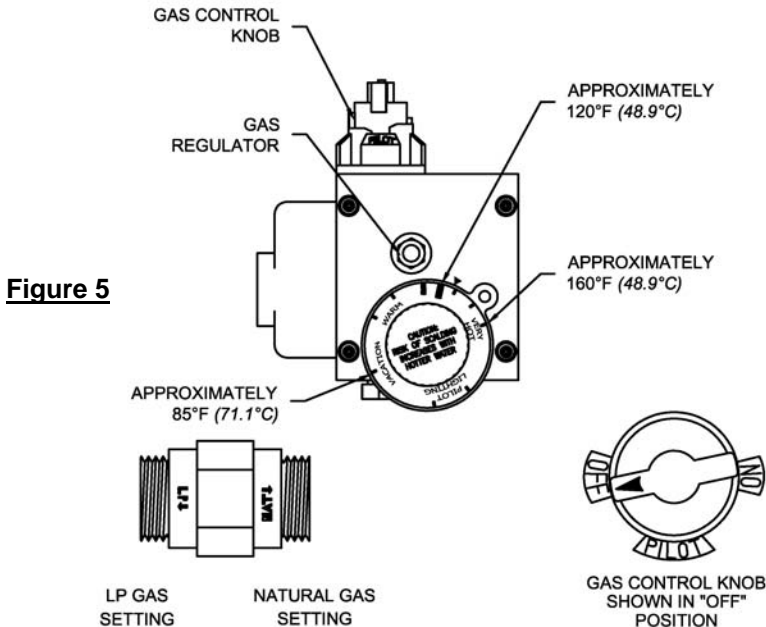
- d) Firmly place right side inner door flange against the left side inner door flange and secure with two 1/4" drive screws from step 4. **DO NOT OVER TIGHTEN SCREWS.**
 - e) Align right side inner door to combustion chamber and verify the fastener holes of the combustion chamber are aligned with the right side inner door slotted opening. Verify seal integrity around combustion opening. Secure right side inner door using 1/4" hex drive screws from step 4. **DO NOT OVER TIGHTEN SCREWS.** Verify both left and right sides of the inner door are properly positioned and sealed against the combustion chamber.
 - f) Reconnect lead wires from combination thermostat/gas valve to resettable thermal switch. Note, wire terminations are interchangeable with either resettable thermal switch connections.
 - g) Replace outer jacket burner access door.
- 10) Note: For closed combustion product, make sure screws are tight and seal is made around gas supply tube to burner.
- 11) To light pilot, follow the lighting instructions provided on the water heater and in this installation and operation instruction manual.
- 12) Remove "equipped for" card from cloth bag and attach to gas piping as close to gas control as possible. Remove and discard tag attached to water inlet fitting of the water heater.

To convert from natural gas to LP gas (For control shown in figure 4 only)

1. Follow the instructions above except remove cap from gas regulator, and depress and rotate plunger counterclockwise .
2. Remove main burner orifice and pilot assembly and replace with "RED" color coded L.P. orifice and pilot assembly provided in cloth bag attached to the water heater.
3. Replace "equipped for" tag with tag supplied in cloth bag for gas being used.

To convert from L.P. gas to natural gas (For White Rogers control shown in figure 5 only)

- 1) Rotate and partially depress gas control knob clockwise to "OFF" position.
- 2) Remove the plastic cover from the regulator cap, revealing threads. The letters "LP" and "NAT" with arrows will be visible.
- 3) Using an open-ended wrench, turn the regulator cap counter clockwise, until it comes off. Turn the regulator cap around so the arrow next to "NAT" is facing toward the gas valve. Reinstall the regulator cap by turning it clockwise, until tight.



- 4) Replace the plastic cover.
- 5) Remove the outer door. Remove inner door as instructed below.
 - a. Inner Door Removal.
 - i. Disconnect resettable thermal switch wire leads (leading from combination thermostat/gas valve).
 - ii. Remove (2) 1/4" hex drive screws from right side inner door.
 - iii. Remove (2) 1/4" drive screws from flange section of inner door.
 - iv. Remove (2) 1/4" drive screws from left side inner door.
 - v. Remove inner door and inspect per step 4b.
 - b. Fully inspect inner door gaskets for the following:
 - Tears
 - Missing Material
 - Cracks
 - Dirt or debris

Gas Conversion Instructions continued-

- Other imperfections that will inhibit proper seal
- Gasket adhesion to inner door
- Material left on combustion chamber (around opening)
 - (i) Remove (2) 1/4" hex drive screws from right side inner door.
 - (ii) Remove (2) 1/4" drive screws from flange section of inner door.
 - (iii) Remove (2) 1/4" drive screws from left side inner door.
 - (iv) Remove inner door and inspect per step 4b.
- c) If the gasket is not affected by any of the above, gasket replacement is not required.
- d) If gasket replacement is required, contact manufacturer for inner door gasket replacement kit.

IMPORTANT!

If gasket replacement is required, contact manufacturer for inner door gasket replacement kit.

⚠ WARNING

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

- 6) Disconnect thermocouple, gas supply tube and pilot tube from the gas valve and remove the burner assembly from the water heater.
- 7) Remove the "RED" color coded L.P. orifice and pilot assembly and replace with natural gas orifice and pilot assembly provided in the cloth bag attached to the water heater.
- 8) Replace the burner assembly, reconnect all fittings and check for leaks. Refer to "Gas Connections".
- 9) Replace inner doors with the following procedure.
 - a. Clean any residual gasket residue or other debris from combustion chamber surface before installing the inner door/gasket assembly.
 - b. Place the left side inner door into position first. Firmly position the radiused channel of the inner door around the feedline. Using the 1/4" hex drive screws from step 4, secure left side inner door in place. **DO NOT OVER TIGHTEN SCREWS.**
 - c. Position thermocouple, pilot tube and Piezo wire against left side inner door flange gasket. **DO NOT ROUTE THROUGH RADIUS CHANNEL WITH FEEDLINE.**

Gas Conversion Instructions continued-

- d. Firmly place right side inner door flange against the left side inner door flange and secure with two ¼" drive screws from step 4. **DO NOT OVER TIGHTEN SCREWS.**
 - e. Align right side inner door to combustion chamber and verify the fastener holes of the combustion chamber are aligned with the right side inner door slotted opening. Verify seal integrity around combustion opening. Secure right side inner door using ¼" hex drive screws from step 4. **DO NOT OVER TIGHTEN SCREWS.** Verify both left and right sides of the inner door are properly positioned and sealed against the combustion chamber.
 - f. Reconnect lead wires from combination thermostat/gas valve to resettable thermal switch. Note, wire terminations are interchangeable with either resettable thermal switch connections.
 - g. Replace outer jacket burner access door.
- 10) To light pilot, follow the lighting instructions provided on the water heater and in this installation and operation instruction manual.
- 11) Remove "equipped for" card from cloth bag and attach to gas piping as close to gas control as possible. Remove and discard tag attached to water inlet fitting of the water heater.

To convert from natural gas to L.P. gas (For control shown in figure 5 only)


- 1. Follow the instructions above except add the "RED" main burner orifice and pilot assembly. Replace with the ones originally provided with the water heater.
- 2. Change the pilot regulator to "LP" as noted in step 3 of the instructions.
- 3. Replace "equipped for" tag with tag supplied in cloth bag for gas being used.

GENERAL OPERATION

WARNING






Water heaters are heat producing appliances. To avoid damage or injury there must be no materials stored against the water heater or vent-air intake system, and proper care must be taken to avoid unnecessary contact (especially by children) with the water heater and vent-air intake system. **UNDER NO CIRCUMSTANCES MUST FLAMMABLE MATERIALS, SUCH AS GASOLINE OR PAINT THINNER BE USED OR STORED IN THE VICINITY OF THIS WATER HEATER, VENT-AIR INTAKE SYSTEM OR IN ANY LOCATION FROM WHICH FUMES COULD REACH THE WATER HEATER OR VENT-AIR INTAKE SYSTEM.**

TO FILL THE WATER HEATER

1. Close the water heater drain valve by turning the knob clockwise .
2. Open the cold water supply shut-off valve.
3. Open several hot water faucets to allow air to escape from the system.
4. When a steady stream of water flows from the faucets, the water heater is filled. Close the faucets and check for water leaks at the water heater drain valve, combination temperature and pressure relief valve and the hot and cold water connections.

TO DRAIN THE WATER HEATER

Should it become necessary to completely drain the water heater, make sure you follow the steps below:

1. For the White Rogers controls, rotate the thermostat dial clockwise  to the lowest position, OR for the Robertshaw control, rotate the thermostat dial counter-clockwise  to the lowest possible position.
2. For the White Rogers controls, rotate and partially depress gas control knob clockwise  to the "OFF" position, OR for the Robertshaw control rotate the gas control knob clockwise  to the "OFF" position.
3. Shut off the gas supply to the water heater.
4. Close the cold water supply shut-off valve.
5. Open the drain valve on the water heater by turning the knob counter-clockwise . The drain valve has threads on the end that will allow the connection of a standard hose coupling.
6. Open a hot water faucet to allow air to enter the system.

To refill the water heater, refer to "To Fill the Water Heater."

Lighting and Shutdown Instructions

FOR YOUR SAFETY READ BEFORE LIGHTING

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

- A. This appliance has a pilot which is lit by a piezo-electric spark gas ignition system. Do not open the inner door and attempt to light the pilot 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.**
- * Do not try to light any appliance.
 - * Do not touch any electric switch; do not use any phone in your building.
 - * Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - * If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. 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.

LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above on this label.
2. Set the thermostat to lowest setting.
3. Rotate and if applicable partially depress gas control knob clockwise to "OFF" position.



EXHIBIT A

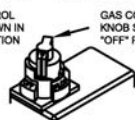


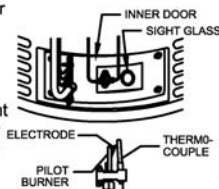
EXHIBIT B

NOTE: On exhibit B, knob cannot be turned from "PILOT" to "OFF" unless knob is depressed slightly. Do not force.

4. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.

5. Remove outer door.
6. Locate piezo igniter button.

7. Look into sight glass window on inner door to view pilot.



8. Turn the gas control knob counterclockwise to "PILOT" position.

9a. FOR EXHIBIT A GAS CONTROLS-

Depress and hold down red pilot set button. Immediately depress piezo igniter button until you hear a "click" sound, then release. Continue to hold down the pilot set button for about one (1) minute after the pilot is lit. Release the pilot set button and it should pop back up. Pilot should remain lit. If it goes out, repeat steps 3 through 9.

9b. FOR EXHIBIT B GAS CONTROLS-

Depress and hold down gas control knob. Immediately depress piezo igniter button until you hear a "click" sound, then release. Continue to hold down the knob for about one (1) minute after the pilot is lit. Release the knob and it should pop back up. Pilot should remain lit. If it goes out, repeat steps 3 through 9.

FOR EXHIBIT A & B GAS CONTROLS-

- If button or knob does not pop up when released, stop and immediately call your service technician or gas supplier.
- If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your technician or gas supplier.

10. Replace outer door.
11. Turn gas control knob counterclockwise to "ON" position.
12. Set thermostat to desired setting.

TO TURN OFF GAS TO APPLIANCE

1. Set the thermostat dial to lowest possible setting.
2. Rotate and if applicable partially depress gas control knob clockwise to "OFF" position.

Thermostat Adjustment

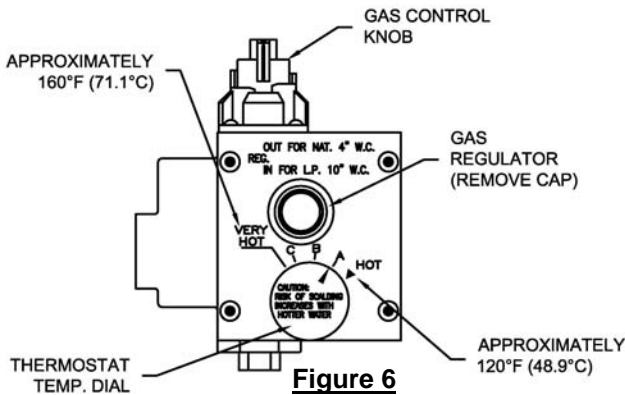


Figure 6

The thermostat dial is set to its lowest temperature setting when shipped from the factory. **Remember that lower temperature settings are more energy efficient.** Adjust the temperature by turning the thermostat dial. It is suggested that the starting point setting not be greater than the "▲" mark on the thermostat dial (approximately 120°F [48.9°C]) as pictured above. Rotate the thermostat dial **clockwise** to decrease the temperature setting. Rotate the thermostat dial **counter-clockwise** to increase the temperature setting. Adjust the dial until the minimum acceptable temperature is achieved (See figure 6 above for approximate temperature settings).

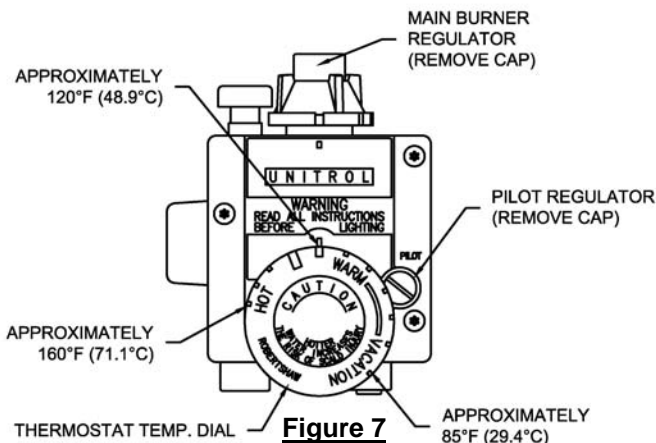


Figure 7

The thermostat dial is set to its lowest temperature setting when shipped from the factory. **Remember that lower temperature settings are more energy efficient.** Adjust the temperature by turning the thermostat dial. It is suggested that the starting point setting not be greater than the "■" mark on the thermostat dial (approximately 120°F [48.9°C]) as pictured above. Rotate the thermostat dial **counter-clockwise** to decrease the temperature setting. Rotate the thermostat dial **clockwise** to increase the temperature setting. Adjust the dial until the minimum acceptable temperature is achieved (See figure 7 above for approximate temperature settings).

Thermostat Adjustment continued

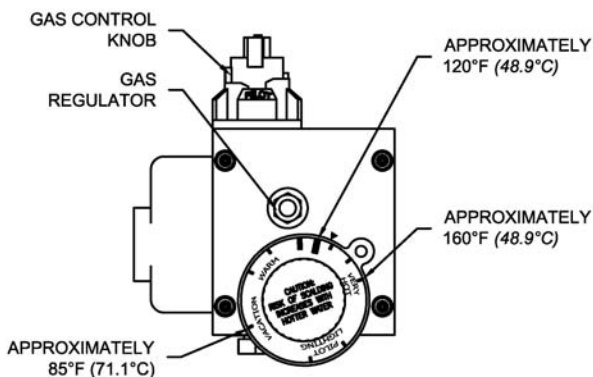


Figure 8

The thermostat dial is set to its lowest temperature setting when shipped from the factory. **Remember that lower temperature settings are more energy efficient.** Adjust the temperature by turning the thermostat dial. It is suggested that the starting point setting not be greater than the "▲" mark on the thermostat dial (approximately 120°F [48.9°C]) as pictured above. Rotate the thermostat dial **clockwise** to decrease the temperature setting. Rotate the thermostat dial **counter-clockwise** to increase the temperature setting. Adjust the dial until the minimum acceptable temperature is achieved (See figure 8 above for approximate temperature settings).

⚠ DANGER

Hotter water increases the risk of scald injury. Scalding may occur within five (5) seconds at a temperature setting of 140°F (60°C). To protect against hot water injury, install an ASSE approved mixing valve in the water system. This valve will reduce point of discharge temperature by mixing cold and hot water in branch water lines. A licensed plumbing professional or local plumbing authority should be consulted.

Note: This water heater is equipped with an energy cut out device to prevent overheating. Should overheating occur or the gas supply fail to shut off, turn off the manual gas control valve to the appliance and call a qualified service technician.

Note: Whenever the water heater is filled with cold water, condensate will form on the cool tank surface and drops of water will fall on the hot burner and combustion chamber surfaces producing a "sizzling" noise. Condensation is normal and does not indicate a leak. It will disappear when the tank becomes heated.

Burner Flame Check

Steel Burner: These models are equipped with self-adjusting air mixture and do not have an adjustable air shutter (See Figure 9). At periodic intervals, a visual check of the main burner and pilot flames should be made to determine if they are burning properly. The main burner flame should light smoothly from the pilot.

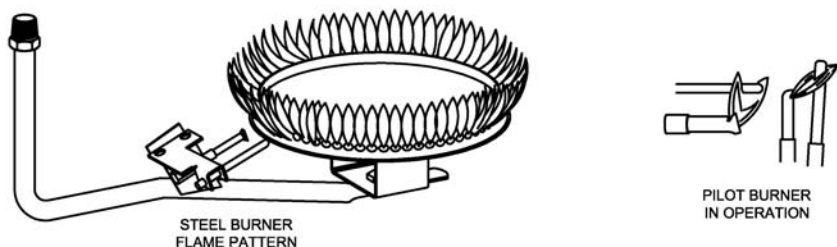


Figure 9

WARNING

Do not run out of propane gas. Damage to the water heater may occur.

MAINTENANCE

WARNING

Water heaters are heat producing appliances. To avoid damage or injury there must be no materials stored against the water heater or vent-air intake system, and proper care must be taken to avoid unnecessary contact (especially by children) with the water heater and vent-air intake system. **UNDER NO CIRCUMSTANCES MUST FLAMMABLE MATERIALS, SUCH AS GASOLINE OR PAINT THINNER BE USED OR STORED IN THE VICINITY OF THIS WATER HEATER, VENT-AIR INTAKE SYSTEM OR IN ANY LOCATION FROM WHICH FUMES COULD REACH THE WATER HEATER OR VENT-AIR INTAKE SYSTEM.**

IMPORTANT

The water heater should be inspected at a minimum annually by a qualified service technician for damaged components and/or joints not sealed. DO NOT operate this water heater if any part is found damaged or if any joint is found not sealed.

The following maintenance should be performed by a qualified service technician at the minimum periodic intervals suggested below. In some installations, the maintenance interval may be more frequent depending on the amount of use and the operating conditions of the water heater. Regular inspection and maintenance of the water heater and vent-air intake system will help to insure safe and reliable operation.

1. Annually check the operation of the thermostat.
2. The flow of combustion and ventilation air **MUST NOT** be restricted. Make sure slots in jacket are open and unobstructed. Clear jacket slot openings of any dirt, dust, or other restrictions.

WARNING

The ventilation air system may be **HOT**.

3. At all times keep the water heater area clear and free from combustible materials, gasoline and other flammable vapors and liquids.
4. Bi-annually conduct a visual check of the main and pilot burner flames to determine that they are burning properly. See Burner Flame Check section of this installation and operation manual. If sooting or other burner anomalies are evident, shut down the water heater by turning off the gas per the instructions listed in this manual or as listed on the water heater.
5. Annually remove the inner door and main burner assembly to clean orifices and related parts of any dirt or other foreign material. Inspect the burner ports for obstructions or debris and clean with a wire brush as needed. Wire brush and/or vacuum clean the combustion chamber as needed to remove scale deposits and debris.

NOTE

It is imperative for proper operation of the water heater that the inner door be replaced in the original location, making certain the resettable thermal switch is properly connected to the gas control wire leads provided.

WARNING

- Do not operate water heater with jumpered, altered, loosely tightened or absent controls and/or components.
- Do not operate water heater with replacement controls and/or components, which are not exact duplicates or original equipment.
- Thoroughly inspect and replace, (as needed) burner inner door gasket and/or sight window gasket any time burner inner door is removed or disturbed.
- Replace water heater if involved in flammable vapors incident.

⚠ WARNING

When lifting lever of the combination temperature and pressure relief valve, hot water will be released under pressure. Be careful that any released water does not result in bodily injury or property damage.

⚠ WARNING

THIS WATER MAY BE HOT.

⚠ WARNING

Do not run out of propane gas. Damage to the water heater may occur.

6. At least once a year, check the combination temperature and pressure relief valve to insure that the valve has not become encrusted with lime. Lift the lever at the lever at the top of the valve several times until the valve seats properly without leaking and operates freely.
7. Monthly drain off a gallon of water to remove silt and sediment.
8. If the combination temperature and pressure relief valve on the appliance discharges periodically, this may be due to thermal expansion in a closed water supply system. Contact the water supplier or local plumbing inspector on how to correct this situation. Do not plug the combination temperature and pressure relief valve outlet.
9. A combination sacrificial anode rod/hot water outlet nipple has been installed to extend tank life. The anode rod should be inspected periodically (every 2 years) and replaced when necessary to prolong tank life. Water conditions in your area will influence the time interval for inspection and replacement of the anode rod. Contact the plumbing professional who installed the water heater or the manufacturer listed on the rating plate for anode replacement information. The use of a water softener may increase the speed of anode consumption. More frequent inspection of the anode is needed when using softened (or phosphate treated) water.
10. The vent system must be inspected at least once a year to ensure against leakage of exhaust products

⚠ CAUTION

FOR YOUR SAFETY, DO NOT ATTEMPT REPAIR OF COMBINATION GAS CONTROL, BURNERS OR GAS PIPING. REFER REPAIRS TO A QUALIFIED SERVICE TECHNICIAN.

Contact your supplier or plumbing professional for replacement parts or contact the company at the address given on the rating plate of the water heater.

Provide the part name, model and serial numbers of the water heater when ordering parts.

READ THE WARRANTY FOR A FULL EXPLANATION OF THE LENGTH OF TIME THAT PARTS AND THE WATER HEATER ARE WARRANTED.

Manufactured under one or more of the following U.S. Patents: 5,277,171; 5,341,770; 5,372,185; 5,485,879; 5,574,822; 5,596,952; 5,660,165; 5,682,666; 5,761,379; 5,943,984; 5,954,492; 5,988,117; 6,056,542; 6,142,216; 6,442,178; 6,684,821; 6,935,280; 7,063,132; 7,063,133; 7,007,748; 7,270,087; 7,334,419; 7,337,517; 7,409,925; 7,458,341; 7,559,293; 7,621,238; 7,634,976; 7,650,859; 7,665,210; 7,665,211; 7,699,026; 7,866,168; 7,900,589; 7,971,560; 7,992,526; 8,082,888; 8,146,772; Other U.S. and Foreign patent applications pending.
Current Canadian Patents: 2,092,105; 2,107,012; 2,108,186; 2,112,515; 2,143,031; 2,239,007; 2,262,174; 2,314,845; 2,409,271; 2,476,685; 2,504,824; 2,548,958

Complete the following information and retain for future reference:

Model No: _____

Serial No: _____

Service Phone

Days: _____ Nights: _____

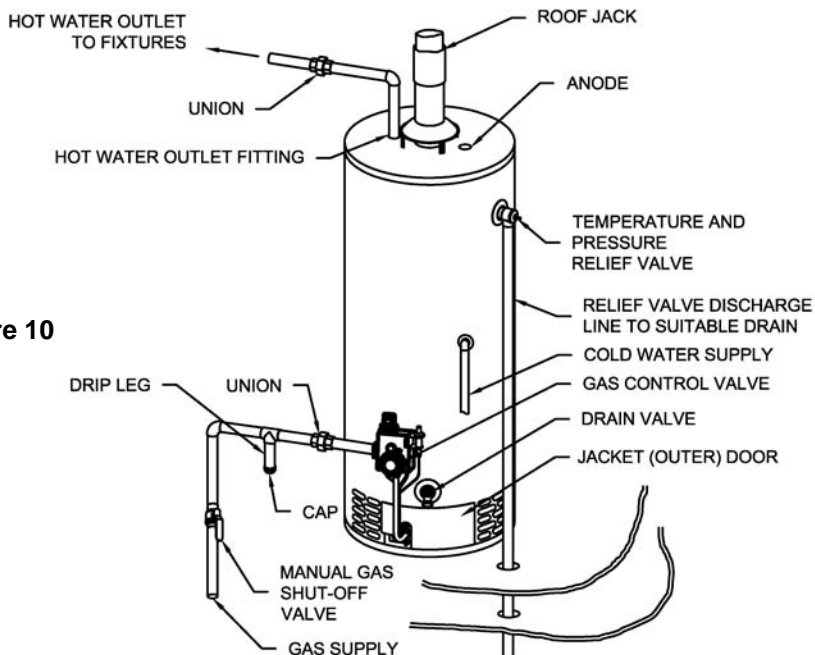
Address: _____

Supplier: _____

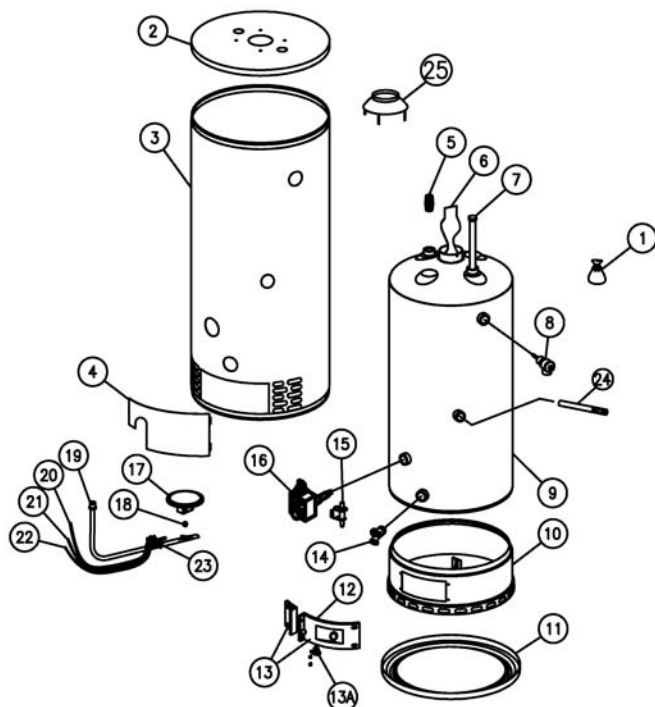
Supplier Phone No: _____

TYPICAL INSTALLATION (WATER AND GAS CONNECTIONS)

Figure 10



MANUFACTURED HOME (MOBILE HOME) GAS-FIRED WATER HEATER PARTS LIST



PART NAME & DESCRIPTION		
1. Gas Conversion Kit	13A. High temperature limit switch	
2. Jacket Head Pan	14. Drain Valve	
3. Jacket	15. Piezo Igniter	
4. Outer Door	16. Gas Valve	
5. Hot Water Outlet Nipple	17. Burner	
6. Flue Baffle Assembly	18. Pilot Orifice	
7. Anode	19. Gas Feedline to Burner	
8. Temperature and Pressure Relief Valves	20. Gas Feedline to Pilot	
9. Glass Lined Tank	21. Thermocouple Lead	
10. Combustion Chamber Assembly	22. Piezo Igniter Lead	
11. Jacket Base Pan	23. Pilot Assembly	
12. Inner Door Gasket	24. Cold Water Inlet Tube w/Nipple	
13. Inner Door Assembly	25. Draft Diverter	

NOTES