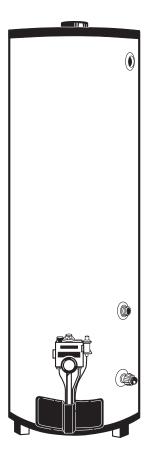
Use & Care Manual

With Installation Instructions for the Installer



Side Inlet - Direct Vent Gas

Water Heaters

For Manufactured Housing (Mobile Home)

The purpose of this manual is twofold: one, to provide the installer with the basic directions and recommendations for the proper installation and adjustment of the water heater; and two, for the owner–operator, to explain the features, operation, safety precautions, maintenance and troubleshooting of the water heater. This manual also includes a parts list.

It is imperative that all persons who are expected to install, operate or adjust this water heater read the instructions carefully so they may understand how to perform these operations. If you do not understand these instructions or any terms within it, seek professional advice.

Any questions regarding the operation, maintenance, service or warranty of this water heater should be directed to the seller from whom it was purchased. If additional information is required, refer to the section on "If you need service."

Do not destroy this manual. Please read carefully and keep in a safe place for future reference.



Recognize this symbol as an indication of Important Safety Information!



California Proposition 65 Warning: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



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 vapors or liquids or other combustible materials in the vicinity of this or any other appliance. To do so may result in an explosion or fire.
- —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.
- Do not return to your home until authorized by the gas supplier or fire department.
- Improper installation, adjustment, alteration, service or maintenance can cause injury, property damage or death. Refer to this manual. Installation and service must be performed by a qualified installer, service agency or the gas supplier.



Safety Information Safety Precautions
Installation Instructions
Location
Installation Methods 8-10
Water Connections 11
Gas Supply
Leak and Pressure Testing 13
Conversion Instructions
Operating Instructions Lighting Instructions 16 Water Temperature 17, 18
Care and Cleaning Draining
Troubleshooting Tips Before You Call For Service
Customer Service Parts List



FOR YOUR RECORDS

Write the model and serial numbers here:

<u>#</u> #

You can find them on a label on the appliance.

Staple sales slip or cancelled check here.

Proof of the original purchase date is needed to obtain service under the warranty.



READ THIS MANUAL

Inside you will find many helpful hints on how to use and maintain your water heater properly. A little preventive care on your part can save you time and money over the life of your water heater.

You'll find many answers to common problems in the Troubleshooting Guide. If you review the chart of Troubleshooting Tips first, you may not need to call for service.



READ THE SAFETY INFORMATION

Your safety and the safety of others are very important. There are many important safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is the safety alert symbol. Recognize this symbol as an indication of Important Safety Information! This symbol alerts you to potential hazards that can kill or hurt you and others.

All safety messages will follow the safety alert symbol and either the word "DANGER", "WARNING", "CAUTION" or "NOTICE".

These words mean:

▲ DANGER An imminently hazardous situation

that will result in death or serious

injury.

A WARNING A potentially hazardous situation that could result in death or serious injury

and/or damage to property.

▲ CAUTION A potentially hazardous situation that

may result in minor or moderate

injury.

Notice: Attention is called to observe a

specified procedure or maintain

a specific condition.

IMPORTANT SAFETY INFORMATION. READ ALL INSTRUCTIONS BEFORE USING.

Be sure to read and understand the entire Use and Care Manual before attempting to install or operate this water heater. It may save you time and cost. Pay particular attention to the Safety Instructions. Failure to follow these warnings could result in serious bodily injury or death. Should you have problems understanding the instructions in this manual, or have any questions, STOP, and get help from a qualified service technician, or the local gas utility.

ADANGER!



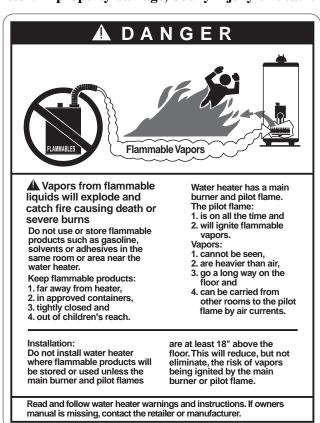
INSTALL THE VENT SYSTEM AND PROPERLY VENT THE WATER HEATER...

Failure to install the vent system and properly vent the water heater to the outdoors as outlined in the Venting Section of the Installation Instructions in this manual can result in unsafe operation of the water heater. To avoid the risk of fire, explosion, or asphyxiation from carbon monoxide, never operate this water heater unless it is properly vented and has an adequate air supply for proper operation. Be sure to inspect the vent system for proper installation at initial start-up; and at least annually thereafter. Refer to the Care and Cleaning section of this manual for more information regarding vent system inspection.



▲WARNING!

Gasoline, as well as other flammable materials and liquids (adhesives, solvents, etc.), and the vapors they produce are extremely dangerous. DO NOT handle, use or store gasoline or other flammable or combustible materials anywhere near or in the vicinity of a water heater. Be sure to read and follow the warning label pictured below and other labels on the water heater, as well as the warnings printed in this manual. Failure to do so can result in property damage, bodily injury or death.



IMPORTANT SAFETY INFORMATION. READ ALL INSTRUCTIONS BEFORE USING.



ADANGER!

WATER TEMPERATURE SETTING

Safety and energy conservation are factors to be considered when selecting the water temperature setting of water heater's thermostat. Water temperatures above 125°F. can cause severe burns or death from scalding. Be sure to read and follow the warnings outlined on the label pictured below. This label is also located on the water heater.



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.

See instruction manual before setting temperature at water heater.

Feel water before bathing or showering.

Temperature limiting valves are available, see manual,

Notice: Mixing valves are available for reducing point of use water temperature by mixing hot and cold water in branch water lines. Contact a licensed plumber or the local plumbing authority for further information.

Time/Temperature Relationship in Scalds

Water Temperature	Time To Produce a Serious Burn
120°F	More than 5 minutes
125°F	1 ¹ / ₂ to 2 minutes
130°F	About 30 seconds
135°F	About 10 seconds
140°F	Less than 5 seconds
145°F	Less than 3 seconds
150°F	About 1 ¹ / ₂ seconds
155°F	About 1 second

The chart shown above may be used as a guide in determining the proper water temperature for your

A DANGER: Households with small children, disabled, or elderly persons may require a 120°F. or lower thermostat setting to prevent contact with "HOT" water.

Maximum water temperatures occur just after burner has shut off. To find water temperature being delivered, turn on a hot water faucet and place a thermometer in the water stream and read the thermometer.

The temperature of the water in the heater can be regulated by setting the temperature dial on the front of the gas control (thermostat). To comply with safety regulations the thermostat was set at its lowest

120°F

90°F

80°F

70°F

setting before the water heater was shipped from _{110°F} the factory.

> The illustration at the left details the approximate water temperature for each mark on the Gas Control (Thermostat) Temperature Dial.

60°F Temperatures are approximate

130°F

140°F

A DANGER: Hotter water increases the potential for Hot Water SCALDS.

ADANGER!



LIQUEFIED PETROLEUM (LP - PROPANE OR BUTANE) AND NATURAL GAS MODELS

LP and natural gas have an odorant added to aid in detecting a gas leak. Some people may not physically be able to smell or recognize this odorant. If you are unsure or unfamiliar with the smell of LP or natural gas, ask the gas supplier. Other conditions, such as "odorant fade", which causes the odorant to diminish in intensity, can also hide or camouflage a gas leak.

- This water heater is supplied with a thermostatic gas valve that is convertible to LP from natural gas. Be sure to read and carefully follow the Conversion Instructions included in this manual when converting the valve from one type of gas to another.
- After conversion, be certain that the gas supplied to the heater is the type that the valve has been converted for (LP for heaters converted to LP use, and natural gas for heaters converted to natural gas use). This water heater will not operate safely if connected to a fuel type other than the one the gas valve is converted for.
- LP gas must be used with great caution. It is heavier than air and will collect first in lower areas making it hard to detect at nose level.
- Before attempting to light the water heater, make sure to look and smell for gas leaks. Use a soapy solution to check all gas fittings and connections. Bubbling at a connection indicates a leak that must be corrected. When smelling to detect an LP leak, be sure to sniff near the floor also.
- Gas detectors are recommended in LP and natural gas applications and their installation should be in accordance with the manufacturer's recommendations and/or local laws, rules, regulations or customs.
- It is recommended that more than one method, such as soapy solution, gas detectors, be used to detect leaks in LP gas applications.

A DANGER: If a gas leak is present or suspected:

- <u>Do not</u> attempt to find the cause yourself.
- **■** <u>Do not</u> try to light any appliance.
- Do not touch any electrical switch.
- Do not use any phone in your building.
- Leave the house immediately and make sure your family and pets leave also.
- Leave the doors open for ventilation and contact the gas supplier, a qualified service agency or the fire department.
- Stay away from the house (or building) until the service call has been made, the leak is corrected and a qualified agency has determined the area to be safe.

IMPORTANT SAFETY INFORMATION. READ ALL INSTRUCTIONS BEFORE USING.

▲WARNING!

For your safety, the information in this manual must be followed to minimize the risk of fire or explosion, electric shock, or to prevent property damage, personal injury, or loss of life.



FOR INSTALLATIONS IN THE STATE OF CALIFORNIA

California Law requires that residential water heaters must be braced, anchored or strapped to resist falling or horizontal displacement due to earthquake motions. For residential water heaters up to 52 gallon capacity, a brochure with generic earthquake bracing instructions can be obtained from: Office of the State Architect, 400 P Street, Sacramento, CA 95814 or you may call 916-324-5315 or ask a water heater dealer.

However, applicable local codes shall govern installation. For residential water heaters of a capacity greater than 52 gallons, consult the local building jurisdiction for acceptable bracing procedures.



SAFETY PRECAUTIONS

Have the installer show you the location of the gas shut-off valve and how to shut it off if necessary. Turn off the manual shut-off valve if the water heater has been subjected to overheating, fire, flood, physical damage or if the gas supply fails to shut off.

- Read this manual entirely before installing or operating the water heater.
- Use this appliance only for its intended purpose as described in this Use and Care Manual.
- Be sure your appliance is properly installed by a qualified technician in accordance with the provided installation instructions.
- Do not attempt to repair or replace any part of your water heater unless it is specifically recommended in this manual. All other servicing should be referred to a qualified technician.



READ AND FOLLOW THIS SAFETY INFORMATION CAREFULLY. SAVE THESE INSTRUCTIONS

Installing the water heater.

The installation of this water heater must be in accordance with the Manufactured Home Construction and Safety Standard (Title 24, CFR; Part 3280) and the following instructions; instructions supplied with the roof jack assembly, local codes, and utility company requirements governing the installation of water heaters in manufactured homes (mobile homes) and/or in the absence of local codes, the latest edition of The National Fuel Gas Code, ANSI Z223.1.

AWARNING: Combustible construction refers to adjacent walls and ceilings and should not be confused with combustible or flammable products and materials. Combustible and/or flammable products and materials should never be stored in the vicinity of this or any gas appliance.

Location

This water heater must be installed within an enclosure so as to separate the water heater's combustion and venting system from the interior atmosphere of the manufactured home. The enclosure must be a minimum width of 16¹/₄" and depth of 20". Front clearence must be provided for inspection and servicing of the water heater.

All air for combustion must be obtained from the outside atmosphere, and the products of combustion (flue gases) must be discharged directly to the outside atmosphere through the gas vent roof jack assembly.

Refer to installation illustration as shown in this manual.

Install the water heater with minimum clearance from combustible construction of 0 inch sides and rear; 4 inches from front of control; 24 inches from ceiling. If clearances stated on the Instruction/Warning label, located on the front of the water heater, differ from the aforementioned clearances, install heater according to the clearances stated on the Instruction/Warning label.

The water heater may be installed on combustible flooring, but not directly on carpeting.

If the water heater must be installed on carpeting, place a wood or metal panel beneath the water heater extending beyond its full width and depth at least 3" in all directions. If the water heater is installed in an alcove or closet, the entire floor must be covered by the panel.

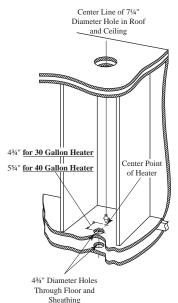
Make certain that the floor underneath the water heater is strong enough to support the weight of the water heater once it is filled with water.

A CAUTION: Provisions should be made so that in the event the water heater or one of its fittings were to leak, the resulting flow of water will not cause damage to the manufactured home.

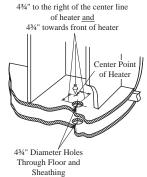
ACAUTION: DO NOT subject the water heater to any water distribution system air pressure test. The water heater should either be isolated with valves at the inlet and outlet water connections or disconnected during the test. Failure to properly isolate the water heater during an air pressure test presents a hazard to life and property. With a water pressure test the water heater need not be isolated.

Installing the water heater.

For 30 & 40 Gallon Heaters ONLY!!



For 50 Gallon Heater ONLY!!



FRONT OF HEATER

Installation Methods

- **Inspect shipment.** Inspect the water heater for possible shipping damage.
- Placement of water heater. Locate the water heater as desired, make certain the minimum clearances outlined in this manual are observed.
- Gombustion and ventilation air. Air for combustion and ventilation must not be supplied from occupied spaces of the mobile home. The air inlet must not be obstructed under any circumstances. Outside air is necessary for proper and safe operation of the water heater.
 - Openings for air inlet and gas vent roof jack assemblies. — (Refer to illustrations to the left.) Cut a 7¹/₄ in. diameter hole in the ceiling and roof directly above the flue of the water heater. Remove the water heater and drop a plumb line from the center of the hole in the roof to the floor. Mark this water heater center point on the floor. Mark a "new point" on the floor $4^{3}/_{4}$ in. toward the front from the water heater center point for a 30 gallon model, or $5^{3}/_{4}$ in. toward the front from the water heater center point for a 40 gallon model. For a 50 gallon model, mark a "new point" $4^{3}/_{4}$ in. to the right and $4^{3}/_{4}$ in. toward the front from the water heater center point. Cut a 43/4 in. diameter hole in the floor and underside sheathing using the "new point" as the hole center.
- **AIR INLET ASSEMBLY** (Refer to illustrations to the left.)

NOTICE — Installation of this Direct Vent water heater with the Air Inlet Assembly taking it's combustion air from a basement atmosphere is a violation of UL 307b, Section 4.3 (c). For installation over a basement structure or unvented crawl space, provisions must be made to provide fresh combustion air from outside the dwelling. A factory manufactured Side Air Inlet Kit (Part No. AP12191) may be purchased from the factory and installed according to the instructions supplied with the kit.

To accommodate variations of installation configurations, an adjustable Air Inlet Assembly is available (Purchased separately). To adjust it, measure the distance from the 4³/₄ in. diameter hole in the floor (refer to number 4) and the approximate midpoint of the space between the bottom sheathing and the ground, and record the dimension. Adjust the telescopic lower tube of the inlet assembly until the distance between the bottom of the floor flange to the bottom of the telescopic tube is equal to the dimension below the floor recorded earlier. With the tube adjusted to the correct length, secure the lower telescopic tube in place with the screws provided. A silicone rubber sealing band is provided with the inlet assembly, and must be pulled up over the joint between the tubes to ensure leak proof seal.

Now drop the Air Inlet Assembly into the 4 ³/₄ in. diameter hole in the floor and fasten in place at this time with the screws provided.

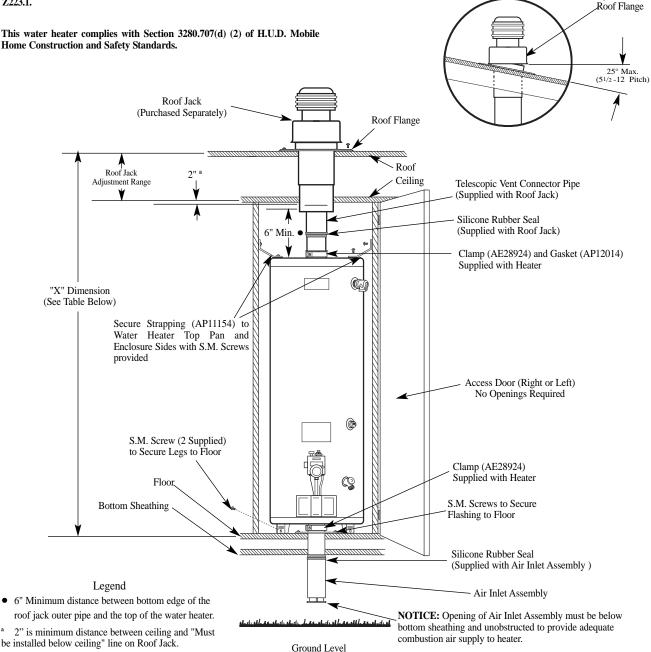
Relocate the water heater so the air inlet collar, that extends below the water heater bottom pan, aligns with the Air Inlet Assembly tube projecting through the floor. Close off the opening between the top of the Air Inlet Assembly tube and the water heater air inlet collar with the clamp provided

Align the water heater flue with the opening previously cut in the ceiling and roof. The opening around the Air Inlet Assembly and the bottom sheathing must be sealed to prevent the entrance of rodents. When the mobile home is tightly skirted, an air inlet opening in the skirt must be provided. The opening must have a minimum free area of at least 9 square inches. If the opening is screened or covered with a louver, the total free area must be at least 9 square inches.

This appliance must be installed in accordance with the Manufactured Home Construction and Safety Standard (Title 24, CFR; Part 3280), the following instructions, local codes and utility company requirements governing the installation of water heaters in manufactured homes (mobile homes), and/or in the absence of local codes, the latest edition of The National Fuel Gas Code, ANSI Z223.1.

NOTICE - All sizes of Roof Jacks have an adjustable tilt Roof Flange to accommodate installation on a pitched roof. Maximum roof pitch is $5^{1}/2$ - 12. For roof pitches greater than $5^{1}/2$ - 12, the use of a "wedge" under the roof flange is acceptable provided it is sealed and secured.

Adjustable Tilt



Roof Jack Sizing Table

Roof Jack Kit	Roof Jack ONLY	"X" Dimension (See	Roof Jack Adjustment Range (See
Part No.	Part No. §	Illustration)	Illustration)
AP12032B*	AP12118B*	98" Min./126" Max.	16" Min./ 32" Max.
AP12032C*	AP12118C*	112" Min./154" Max.	30" Min./60" Max.
AP12032D*	AP12118D*	130" Min./ 189" Max.	48" Min./95" Max.
AP12032F ▲	AP12118B*	94" Min / 106" Max	12"

- * Adjustable Length Roof Jacks
- ▲ Fixed Length Roof Jacks
- · Roof Jack Kits contain specified Roof Jack AND Air Inlet Assembly.
- § These Part No.'s are for Roof Jack ONLY.

NOTICE: 24" Minimum distance from the top of the water heater to the ceiling.

NOTICE - A Roof Jack Extension Kit (Part Number AP12021) is recommended for roof pitches of 5½ -12 or greater, or for installations where local codes require the Roof Jack to be installed above the peak of the roof. Installation instructions are provided with the kit.

Installing the water heater.



Gas vent roof jack. — The roof jack is not supplied with the water heater as a component part. The roof jack must be one of the models listed in this manual, and marked as approved by Underwriters Laboratories, Inc. for use on manufactured homes (mobile homes). The installation instructions supplied with each roof jack must be observed to obtain the proper roof jack installation.

(See Illustration on page 9) The Gas Vent Roof Jack Assembly (purchased separately) has a multi piece telescopic vent connector pipe consisting of an upper, center and lower section that must be pre-adjusted according to the following directions prior to final installation of the roof jack.

From the water heater location, measure the distance from the highest point on roof opening to the floor. Select correct size Roof Jack and Air Inlet Assembly from Roof Jack Sizing Guide on Page 9, Dimension X. Remove the Roof Jack from its carton, and extend the center section of the inner most pipe to its maximum length by grasping the pipe and sliding the center section of pipe downward. Then extend the lower section of the inner pipe in the same manner to its full extension. Silicone rubber sealing bands are provided and must be pulled down over the joints between the tubes to ensure a leak proof seal.

Apply a non-hardening mastic on the roof around the previously cut hole to form a weather tight seal with the roof flange of the Roof Jack Assembly. Insert the roof jack through the opening in roof from above, and fasten the flashing to the roof using the pre-punched holes in the flashing. (The roof flange adjusts to accommodate installation on a pitched

roof, maximum allowable pitch is $5^{1/2}$ -12. For roof pitches greater that $5^{1/2}$ -12, the use of a "wedge" under the roof flange is acceptable provided it is sealed and secured.) Apply additional non-hardening mastic as required to complete the weather seal.

With Roof Jack in place and secured to the roof, insure that the line on the larger, outer tube of the Roof Jack, which is marked "INSTALL WITH THIS LINE BELOW CEILING" is located no less than 2" below the ceiling line and no less than six inches above the water heater. Refer to page 9.

Now extend the lower section of the vent connector pipe by grasping the center section of pipe, ensuring that the silicone rubber seal remains in position over the joint, and sliding the lower section of pipe downward, over the flue pipe protruding above the water heater's top pan. Be sure to leave approximately 1/16" to 1/8" of flue pipe exposed below the lower section of the vent connector pipe to ensure a good sealing surface for the gasket. To complete the Roof Jack Assembly installation, position the gasket material (white fiberglass like material with self adhesive tab, supplied in plastic bag on heater) and clamp (supplied in carton with water heater) around the intersection of the flue pipe and the lower section of the vent connector pipe, and tighten the clamp as required to provide a good seal at the joint.



Securing the water heater. — Secure the two front legs of the water heater to the floor using the 2 long screws furnished. Attach the bracket (AP11154) to the top pan of the water heater and fasten the bracket to the adjacent walls on each side.

Thermal Expansion

Determine if a check valve exists in the inlet water line. Check with your local water utility company. It may have been installed in the cold water line as a separate back flow preventer, or it may be part of a pressure reducing valve, water meter or water softener. A check valve located in the cold water inlet line can cause what is referred to as a "closed water system". A cold water inlet line with no check valve or back flow prevention device is referred to as an "open" water system.

As water is heated, it expands in volume and creates an increase in the pressure within the water system. This action is referred to as "thermal expansion". In an "open" water system, expanding water which exceeds the capacity of the water heater flows back into the city main where the pressure is easily dissipated.

A "closed water system", however, prevents the expanding water from flowing back into the main supply line, and the result of "thermal expansion" can create a rapid and dangerous pressure increase in the water heater and system piping. This rapid pressure increase can quickly reach the safety setting of the relief valve, causing it to operate during each heating cycle. Thermal expansion, and the resulting rapid, and repeated expansion and contraction of components in the water heater and piping system can cause premature failure of the relief valve, and possibly the heater itself. Replacing the relief valve will not correct the problem!

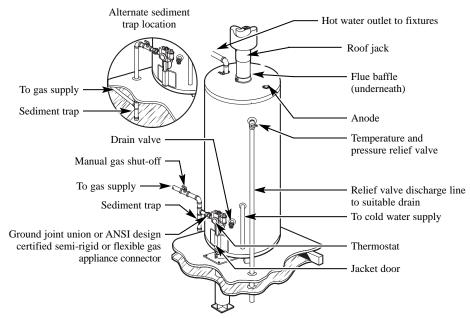
The suggested method of controlling thermal expansion is to install an expansion tank in the cold water line between the water heater and the check valve (see illustration below). The expansion tank is designed with an air cushion built in that compresses as the system pressure increases, thereby relieving the over pressure condition and eliminating the repeated operation of the relief valve. Other methods of controlling thermal expansion are also available. Contact your installing contractor, water supplier or plumbing inspector for additional information regarding this subject.

IMPORTANT: Do not apply heat to the HOT or COLD water connections. If sweat connections are used, sweat tubing to adapter before fitting adapter to the cold water connections on heater. Any heat applied to the cold water supply fittings will permanently damage the dip tube.

Water Supply Connections

Refer to the illustration below for suggested typical installation. The installation of unions or flexible copper connectors is recommended on the hot and cold water connections so that the water heater may be easily disconnected for servicing if necessary. The HOT and COLD water connections are clearly marked and are 3/4" NPT on all models. Install a shut-off valve in the cold water line near the water heater.

Typical Installation



Installing the water heater.

A new combination temperature and pressure relief valve, complying with the Standard for Relief Valves and Automatic Gas Shut-Off Devices for Hot Water Supply Systems, ANSI Z21.22, is supplied and must remain in the opening provided and marked for the purpose on the water heater. No valve of any type should be installed between the relief valve and the tank. Local codes shall govern the installation of relief valves.

Relief Valve

The pressure rating of the relief valve must not exceed 150 PSI, the maximum working pressure of the water heater as marked on the rating plate.

The BTUH rating of the relief valve must equal or exceed the BTUH input of the water heater as marked on its rating plate.

Position the outlet of the relief valve above a suitable open drain to eliminate potential water damage. Piping used should be of a type approved for hot water distribution.

The discharge line must be no smaller than the outlet of the valve and must pitch downward from the valve to allow complete drainage (by gravity) of the relief valve and discharge line.

The end of the discharge line should not be threaded or concealed and should be protected from freezing. No valve of any type, restriction or reducer coupling should be installed in the discharge line.

A WARNING: The tank must be full of water before heater is turned on. The water heater warranty does not cover damage or failure resulting from operation with an empty or partially empty tank.

To Fill the Water Heater

Make certain that drain valve is closed, then open the shut-off valve in the cold water supply line.

Open each hot water faucet slowly to allow the air to vent from the water heater and piping. A steady flow of water from the hot water faucet(s) indicates a full water heater.

Condensation

Condensation can form on the tank when it is first filled with water. Condensation might also occur with a heavy water draw and very cold inlet water temperatures.

Drops of water falling on the burner can produce a sizzling or pinging sound, and the water may also be seen beneath the water heater.

This condition is not unusual, and will disappear after the water becomes heated. If, however, the condensation continues, examine the piping and fittings for possible leaks.

Additional information on this subject may be found at www.rheem.com, under "Library", scroll down to the Technical Service Bulletins 1400 Series Section and choose Bulletin #1402.

Gas Supply

Check the markings on the water heater's rating plate to be certain the type of gas being furnished corresponds to that for which the water heater is built. The water heater can be converted from natural gas to LP or vice versa. See the Conversion Instructions section of this manual.

The branch gas supply line to the water heater should be clean 1/2" black steel pipe or other approved gas piping material.

A ground joint union or ANSI design certified semi-rigid or flexible gas appliance connector should be installed in the gas line close to the water heater. A manual gas shut-off valve should be at least 5 ft. above the floor and readily accessible.

Compound used on the threaded joints of the gas piping must be of the type resistant to the action of LP gas. Use compound sparingly on male threads only.

A sediment trap should be installed at the bottom of the gas line.

Do not use excessive force (over 31.5 ft lbs.) in tightening the pipe joint at the thermostat inlet, particularly if teflon pipe compound is used, as the valve body may be damaged.

The inlet gas pressure to the water heater must not exceed 14" w.c. for natural or LP gas. For purposes of input adjustment, the minimum inlet gas pressure (with main burner on) is shown on the water heater rating plate. If high or low gas pressures are present, contact your gas supplier for correction.

A WARNING: Never use an open flame to test for gas leaks, as bodily injury, property damage or death could result.

Leak Testing

The water heater and its gas connections must be leak tested at normal operating pressures before it is placed in operation.

Turn on the manual gas shut-off valve near the water heater.



Use a soapy water solution to test for leaks at all connections and fittings. Bubbles indicate a gas leak that must be corrected.

The factory connections to the thermostat should also be leak tested after the water heater is placed in operation.

Pressure Testing the Gas Supply System

The water heater and its manual gas shut-off valve must be <u>disconnected</u> from the gas supply piping system during any high pressure testing of that system at pressures in excess of 1/2 psi (14" w.c.).

The water heater must be isolated from the gas piping system by closing the manual gas shut-off valve during any pressure testing of the gas supply piping at pressures equal to or less than 1/2 psi (14" w.c.).

Installation Checklist

A. Wa	ater Heater Location	
	 □ Water heater securely anchored. □ Indoors and protected from freezing temperatures. □ Proper clearance from combustible surfaces observed and water heater not installed on carpeted floor. □ Sufficient fresh air supply for proper operation of water heater. □ Air supply free of corrosive elements and flammable vapors. 	 Provisions made to protect area from water damage. Sufficient room to service heater. Combustible materials, such as clothing, cleaning materials, rags, etc. clear of the base of the heater.
B. Wa	ater Supply	
	☐ Water heater completely filled with water.	
	☐ Air purged from water heater and piping.	
	☐ Water connections tight and free of leaks.	
C. G	as Supply	
	☐ Gas line equipped with shut-off valve, union and sediment trap.	☐ Soap and water solution used to check all connections and fittings for possible gas leak.
	☐ Approved pipe joint compound used.	☐ Gas Company inspected installation (if required).
D. R	elief Valve	
	☐ Temperature and Pressure Relief Valve properly installed and discharge line run beneath mobile home.	
	☐ Discharge line protected from freezing.	
E. Ve	enting	
	☐ Flue baffle properly hung in top of heater's flue.	☐ Gas Vent Roof Jack properly installed.

Notes

Lighting the water heater.

Before operating this water heater, be sure to read and follow the instructions on the label pictured below and all other labels on the water heater, as well as the warnings printed in this manual. Failure to do so can result in unsafe operation of the water heater resulting in property damage, bodily injury, or death. Should you have any problems reading or following the instructions in this manual, STOP, and get help from a qualified person.

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.

- This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- 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.

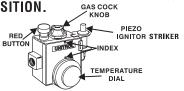
WHAT TO DO IF YOU SMELL GAS

- 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 turn the gas control knob. Never use tools. If the knob will not 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. TURN GAS COCK KNOB CLOCKWISE > TO "OFF" POSITION.



- 3. TURN TEMPERATURE DIAL COUNTERCLOCK-WISE **F** TO LOWEST SETTING.
- 4. WAIT FIVE (5) MINUTES TO CLEAR OUT ANY GAS. IF YOU SMELL GAS, STOP! FOL-LOW "B" IN THE SAFETY INFORMATION ABOVE ON THIS LABEL. IF YOU DO NOT SMELL GAS, GO TO NEXT STEP. THERMO-
- 5. REMOVE THE OUTER DOOR FROM THE WATER HEATER. DO NOT PII OT ATTEMPT TO REMOVE **INNER DOOR.**
- 6. LOCATE PIEZO IGNITOR STRIKER, IT IS DIRECTLY TO THE RIGHT OF GAS CONTROL.
- 7. TURN THE GAS COCK KNOB COUNTER- 11. TURN THE TEMPERATURE DIAL TO THE CLOCKWISE **√** TO "PILOT" POSITION.

- 8. PUSH DOWN ON THE "RED BUTTON" UNTIL IT COMES TO REST ON THE TOP OF CON-TROL. IT MUST CLEAR THE NOTCH PRO-VIDED IN THE "GAS COCK KNOB." HOLD "RED BUTTON" DOWN AND PRESS PIEZO **IGNITOR SEVERAL TIMES UNTIL PILOT** IS LIT. (THE PILOT FLAME CAN ONLY BE SEEN THRU THE SIGHT GLASS LOCATED ON THE INNER DOOR). CONTINUE TO HOLD THE "RED BUTTON" IN FOR ABOUT ONE (1) MINUTE AFTER THE PILOT IS LIT. RELEASE BUTTON AND IT WILL POP BACK UP. PILOT SHOULD REMAIN LIT. IF IT GOES OUT, REPEAT STEPS 2 THROUGH 8.
 - IF BUTTON DOES NOT POP UP WHEN RELEASED, STOP AND IMMEDIATELY CALL YOUR SERVICE TECHNICIAN OR GAS SUPPLIER.
- IF THE PILOT WILL NOT STAY LIT AFTER PIEZO • ELECTRODE SEVERAL TRIES, TURN THE "GAS COCK KNOB" TO "OFF" AND CALL YOUR SERVICE TECHNICIAN OR GAS SUPPLIER.
 - 9. REPLACE OUTER DOOR.
 - 10. TURN "GAS COCK KNOB" COUNTERCLOCK-WISE 🗸 TO"ON".
 - DESIRED SETTING.

TO TURN OFF GAS TO APPLIANCE

COUPLE

- WISE **F** TO LOWEST SETTING.
- 1. TURN TEMPERATURE DIAL COUNTERCLOCK- 2. TURN GAS COCK KNOB CLOCKWISE 🥆 TO "OFF" POSITION.

Operating the water heater.

A CAUTION: Hydrogen gas can be produced in a hot water system served by this water heater that has not been used for a long period of time (generally two weeks or more). HYDROGEN GAS IS EXTREMELY FLAMMABLE!! To dissipate such gas and to reduce risk of injury, it is recommended that the hot water faucet be opened for several minutes at the kitchen sink before using any electrical appliance connected to the hot water system. If hydrogen is present, there will be an unusual sound such as air escaping through the pipe as the water begins to flow. Do not smoke or use an open flame near the faucet at the time it is open.

Safety Precautions

- **A Do** turn off manual gas shut-off valve if water heater has been subjected to overheating, fire, flood, physical damage or if the gas supply fails to shut off.
- **B** Do Not turn on water heater unless it is filled with water.
- **C Do Not** turn on water heater if cold water supply shut-off valve is closed.
- **Do Not** allow combustible materials such as newspaper, rags or mops to accumulate near water heater.

Do Not store or use gasoline or other flammable vapors and liquids, such as adhesives or paint thinner, in vicinity of this or any other appliance. If such flammables must be used, open doors and windows for ventilation, and all gas burning appliances in the vicinity should be shut off including their pilot lights, to avoid vapors lighting.

NOTICE: Flammable vapors may be drawn by air currents from surrounding areas to the water heater.

F

If there is any difficulty in understanding or following the Operating Instructions or the Care and Cleaning section, it is recommended that a qualified person or serviceman perform the work.

Water Temperature Setting
The temperature of the water in the water

ADANGER: There is a hot water scald potential if the thermostat is set too high. Households with small children, disabled, or elderly persons may require a 120°F. or lower thermostat setting to prevent contact with HOT water.

heater can be regulated by setting the temperature dial on the front of the thermostat.

Safety and energy conservation are factors to be considered when selecting

factors to be considered when selecting the water temperature setting of the water heater's thermostat(s). The lower the temperature setting, the greater the savings in energy and operating costs.

To comply with safety regulations the thermostat was factory set at 120°F. or less where local codes require. This is the recommended starting point.

Water temperatures above 125°F. can cause severe burns or death from scalding. Be sure to read and follow the warnings outlined in this manual and on the label on the water heater. This label is located on the water heater near the thermostat access panel.

Mixing valves for reducing point of use water temperature by mixing hot and cold water in branch water lines are available. Contact a licensed plumber or the local plumbing authority for further information.

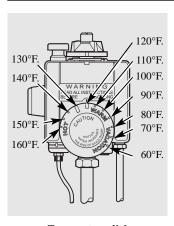
The chart below may be used as a guide in determining the proper water temperature for your home.

Operating the water heater.

Time/Temperature Relationship in Scalds

	Water Temperature	Time To Produce a Serious Burn
	120°F	More than 5 minutes
	125°F	1 ¹ / ₂ to 2 minutes
	130°F	About 30 seconds
	135°F	About 10 seconds
-	140°F	Less than 5 seconds
	145°F	Less than 3 seconds
	150°F	About 1½ seconds
	155°F	About 1 second

Table courtesy of Shriners Burn Institute



Temperature dial (Temperatures are approximate)

Water Temperature Setting...

Maximum water temperatures occur just after the burner has shut off. To determine the water temperature, turn on a hot water faucet and place a thermometer in the water stream.

The wide reference mark near WARM on the rim of the temperature dial, represents an approximate water temperature of 120°F.

The long wide reference mark, to the left, represents an approximate water temperature of 130°F.

Each reference mark above or below these points indicates an approximate change of 10°F.

To adjust the temperature, turn the temperature dial to an initial setting of 120°F.

A condition known as "stacking" or "layering" can occur when a series of short and frequent hot water draws are taken.

The hottest temperature water will be at the top of the tank, closest to the outlet pipe delivering hot water to the home.

Stacking can cause this top layer of water to be hotter than the water toward the bottom of the tank near the gas control (thermostat).

Therefore, always remember to test the water temperature with your hand before use and remember that hotter water increases the risk of scald injury.

Also, always supervise young children or others who are incapacitated.

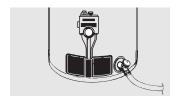
The gas control (thermostat) is constructed with a built in safety shut-off device designed to shut off the gas supply to the burner if the pilot flame is extinguished for any reason.

The gas control (thermostat) is also equipped with a single use gas shut off device that will shut off the gas supply to the burner if the water heater exceeds normal operating temperatures. Refer to the (Before You Call For Service) section of this manual, or contact your dealer.

▲ WARNING: Should overheating occur or the gas supply fail to shut off, turn off the manual gas control valve to the appliance.

If the water heater has been subjected to fire, flood or physical damage, turn off the manual gas control (shut-off) valve, and do not operate the water heater again until it has been checked by qualified personnel.

Care and cleaning of the water heater.



Draining the Water Heater

A CAUTION: Shut off gas to the water heater at the thermostat gas cock or manual shut-off valve before draining water.

ADANGER: Before manually operating the relief valve, make certain no one will be exposed to the hot water released by the valve. The water drained from the tank may be hot enough to present a scald hazard and should be directed to a suitable drain to prevent injury or damage.

In order to drain the water heater, turn off the cold water supply. Open a hot water faucet or lift the handle on the relief valve to admit air to the tank.

Attach a garden hose to the drain valve on the water heater and direct the stream of water to a drain. Open the valve.

A DANGER: Before manually operating the relief valve, make certain no one will be exposed to the danger of coming in contact with the hot water released by the valve. The water may be hot enough to create a scald hazard. The water should be released into a suitable drain to prevent injury or property damage.

▲ DANGER: Hotter water increases the potential for Hot Water Scalds.

ADANGER: Failure to perform the recommended Routine Preventative Maintenance can harm the proper operation of this water heater, which can cause carbon monoxide dangers, excessive hot water temperatures and other potentially hazardous conditions.

Routine Preventative Maintenance

Properly maintained, your water heater will provide years of dependable trouble-free service.

It is suggested that a routine preventative maintenance program be established and followed by the user.

It is further recommended that a periodic inspection of the thermostat, burner, relief valve, internal flue-way and venting system should be made by service personnel qualified in gas appliance repair.

At least once a year, lift and release the lever handle on the temperature pressure relief valve, located near the top of the water heater, to make certain the valve operates freely. Allow several gallons to flush through the discharge line to an open drain

NOTICE: If the temperature and pressure relief valve on the hot water heater discharges periodically, this may be due to thermal expansion in a closed water system. Contact the water supplier or your plumbing contractor on how to correct this. Do not plug the relief valve outlet.

A water heater's tank can act as a setting basin for solids suspended in the water. It is therefore not uncommon for hard water deposits to accumulate in the bottom of the tank. It is suggested that a few quarts of water be drained from the water heater's tank every month to clean the tank of these deposits.

Rapid closing of faucets or solenoid valves in automatic water using appliances can cause a banging noise heard in a water pipe. Strategically located risers in the water pipe system or water hammer arresting devices can be used to minimize the problem.

The anode rod should be removed from the water heater's tank annually for inspection and replaced when more than 6" of core wire is exposed at either end of the rod.

Make sure the cold water supply is turned off before removing anode rod.

Inspect air inlet assembly (beneath mobile home) to make certain flow of air to the water heater for adequate combustion (proper burner operation) and ventilation is not obstructed.

Housekeeping

ADANGER: Combustible materials, such as clothing, cleaning materials, or flammable liquids, etc., must not be placed against or next to the water heater.

To insure sufficient ventilation and combustion air supply, proper clearances must be maintained.

Care and cleaning of the water heater.

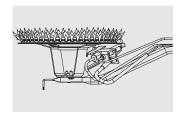
Venting System Inspection

It is recommended the water heater's internal flue be inspected annually to be certain it is clean by removing the roof jack vent and flue baffle.

When reinstalling the flue baffle make certain it is hung securely by its hanger at the top of the flue way.

Remove any scale that may have fallen on the burner or floor shield and reinstall the roof jack vent. Make certain the vent clamp and gasket for the roof jack vent is properly positioned and securely attached.

If after inspection of the vent system you found sooting or deterioration call the local gas utility to correct the problem and clean or replace the flue baffle and venting before resuming operation of the water heater.



Proper burner and pilot flame pattern.

Burner Inspection

Visually inspect the burners annually.

Inspect the main burner while firing and pilot burner flame with the main burner off.

If any unusual burner operation is noted, the water heater should be shut off until qualified service assistance can be obtained. For cleaning, remove the burner from the water heater. A vacuum cleaner can be used on the burner and floor shield inside the water heater. The burner can also be cleaned by scrubbing with mild detergent.

A CAUTION: For your safety, cleaning of the main burner should be performed only by qualified service personnel.

NOTICE: Refer to the Hydrogen Gas Caution in the Operating Instructions.

Vacation and Extended Shut-Down

If the water heater is to remain idle for an extended period of time, the power and water to the appliance should be turned off to conserve energy and prevent a build-up of dangerous hydrogen gas.

The water heater and piping should be drained if they might be subjected to freezing temperatures.

After a long shut-down period, the water heater's operation and controls should be checked by qualified service personnel. Make certain the water heater is completely filled again before placing it in operation.

Anode Rod

NOTICE: Do not remove the anode rod from the water heater's tank, except for inspection and/or replacement, as operation with the anode rod removed will greatly shorten the life of the glass lined tank and will exclude warranty coverage.

This water heater is equipped with an anode rod designed to prolong the life of the glass lined tank. The anode rod is slowly consumed cathodically, thereby eliminating or minimizing corrosion of the glass-lined tank.

Water sometimes contains a high sulfate and/or mineral content and together with cathodic protection process can produce a hydrogen sulfide, or rotten egg odor in the heated water. Chlorination of the water supply should minimize the problem.

Before You Call For Service...



Troubleshooting Tips Save time and money! Review the charts on the following pages first and you may not need to call for service.

Problem	Possible Causes	What To Do
Condensation	This usually happens when a new water heater is filled for the first time.	This is normal. After the water in the tank warms up the condensation will disappear. If, however, the condition persists, examine the piping and fittings for possible leaks.
	Moisture from the products of combustion condensing on the tank surface.	This is normal and will disappear in time. Excessive condensation can cause pilot outage.
	An undersized water heater will cause condensation.	 Use a water heater size that meets the requirements of your needs.
Yellow flame	Scale on top of the burner.	Shut off the water heater and remove scale.
or sooting	Combustion air inlets or flue-way restricted.	Remove lint or debris and inspect air inlet opening for restriction.
	Not enough combustion or ventilation air supplied to the water heater location.	Proper operation of the water heater requires air for combustion and ventilation. See the Combustion and Ventilation Air information in the Locating the water heater section of this manual.
Unable to light the pilot	Gas Cock Knob not correctly positioned.	See the Lighting the water heater section of this manual.
	Pilot orifice clogged.	• The pilot should be cleaned or replaced by a qualified service technician.
	Pilot tube pinched or clogged.	 The pilot should be cleaned, repaired or replaced by a qualified service technician.
	Air in gas line.	 Contact a qualified service technician to purge the air from the gas line.
Pilot does not stay lit when the RED	Loose thermocouple.	 The connection at the thermostat should be tightened by a qualified service technician.
button is released	Thermocouple breakdown.	 The thermocouple should be replaced by a qualified service technician.
	Safety magnet breakdown.	• The thermostat should be replaced by a qualified service technician.
	Thermostat's single use gas shut-off device has opened.	• The thermostat should be replaced by a qualified service technician.

A CAUTION: For your safety DO NOT attempt repair of gas piping, thermostat, burners, vent connectors or other safety devices. Refer repairs to qualified service personnel.

Before You Call For Service...

Problem	Possible Causes	What To Do
Rumbling noise	Scale and sediment in tank.	Clean tank.
Relief valve producing popping noise or draining	Pressure build up caused by thermal expansion to a closed system.	 This is an unacceptable condition and must be corrected. Contact the water supplier or plumbing contractor on how to correct this. Do not plug the relief valve outlet.
Not enough or no hot water	Water usage may have exceeded the capacity of the water heater.	Wait for the water heater to recover after an abnormal demand.
	Low gas pressure.	 Check gas supply pressure and manifold pressure.
	The pilot burner may be out.	• Check the pilot burner. If necessary, relight using the instructions in the "Lighting The Water Heater" section of this manual.
	The gas control (thermostat) may be set too low.	 See the "Water Temperature Setting" of The Water Heater section of this manual.
	Leaking or open hot water faucets.	Make sure all faucets are closed.
Water is too hot	The gas control (thermostat) is set too high.	 See the "Water Temperature Setting" of The Water Heater section of this manual.
	Gas Control (Thermostat) Defective.	 Contact a qualified service technician to replace the gas control (thermostat).

ACAUTION: For your safety DO NOT attempt repair of gas piping, gas control (thermostat), burners, vent connectors or other safety devices. Refer repairs to qualified service personnel.

Instructions For Placing a Parts Order

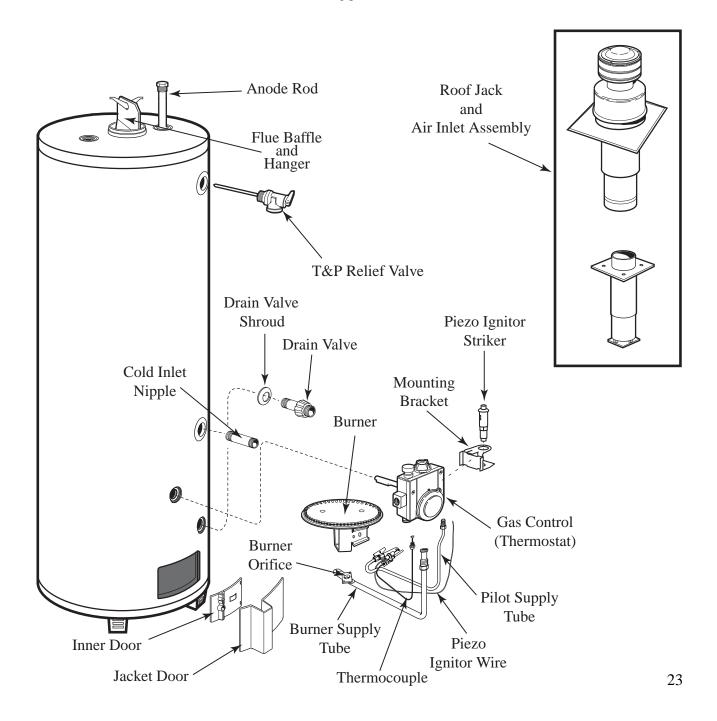
Address parts orders to the distributor or store from where the heater was purchased.

All parts orders should include:

- The model and serial number of the water heater from the rating plate.
- 2 Specify type of gas (natural or LP) as marked on the rating plate.

3 Part description (as noted below) and number of parts desired.

ACAUTION: For your safety DO NOT attempt repair of gas piping, thermostat, burners, vent connectors or other safety devices. Refer repairs to qualified service personnel.



Conversion instructions—Natural Gas to LP Gas

If your gas supply is LP gas, your water heater can be converted to burn LP gas as follows:

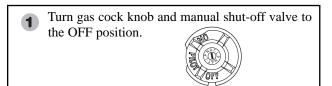
Natural Gas to Liquefied Petroleum (LP or Propane) Gas

▲ WARNING: This conversion kit must be installed by a qualified installer or service technician in accordance with these instructions. Installation must conform with local codes, or in their absence, with the latest edition of the National Fuel Gas Code, ANSI Z223.1. Failure to follow instructions could result in serious injury or property damage. The qualified agency performing this work assumes responsibility for this conversion.

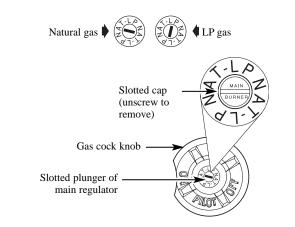
A CAUTION: The water heater is factory set to burn natural gas, but can be converted to burn LP gas. Before putting the water heater into operation, verify that the type of gas supplied to your water heater and the type of gas your water heater is set to burn are the same. If they are not, refer to these instructions.

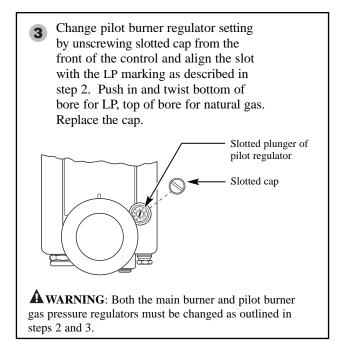
NOTICE: The parts required to make this conversion are supplied in a small bag attached to the drain valve of the water heater. Should your heater not have this bag attached to the drain valve, a replacement can be obtained. Simply contact the manufacturer at the address below and request a replacement conversion kit.

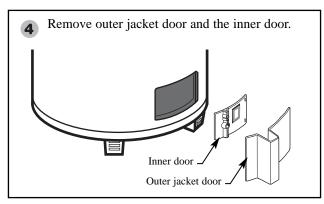
Customer Service Department 2600 Gunter Park Drive, East Montgomery, AL 36109-1413 Phone: 1-800-432-8373



Change main burner regulator setting by unscrewing slotted cap from the gas cock knob; then with a small screwdriver depress and rotate the plunger 90° to align the slot with the LP markings. The red disk with the white slot should "pop" up to the top of the bore in the natural gas setting and be at the bottom of the bore in the "LP" setting. Replace the cap.

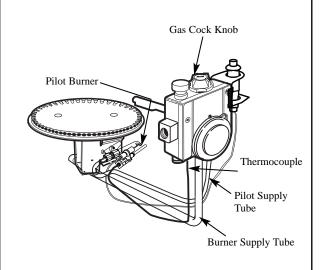




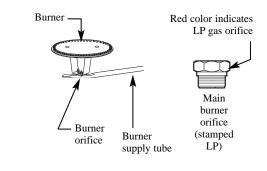


Conversion Instructions—Natural Gas to LP Gas

Disconnect burner supply tube, pilot tube and thermocouple from the thermostat and remove the entire burner assembly by rotating it to the right and remove through opening.



Replace main burner natural gas orifice with the Red colored main burner orifice (stamped LP) supplied in the cloth bag. Refer to the Replacement parts section in this manual for the location of the orifice on the burner assembly.

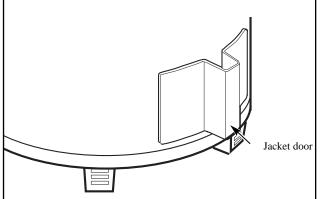


- Replace pilot burner natural gas orifice with the Red Dot pilot burner orifice (stamped LP) supplied.

 Pilot supply tube
 Burner supply
 Thermocouple

 Red dot indicates LP gas orifice
 (stamped LP)
- Attach green CAUTION label from orifice parts bag to the outside of the water heater near the gas control. Label should be signed by qualified installer or service organization.
- **9** Return the unused orifices to the cloth bag for possible future conversions. Return the bag and this Use and Care manual to the plastic bag attached to the water heater.
- Reinstall entire burner assembly and tighten burner supply and pilot tube.

 DO NOT over-tighten or cross-thread the thermocouple at the thermostat.
- Turn manual gas shut off valve to the ON position and light the water heater as outlined in this manual. Leak test all gas connections and caps with soap/water solution. Bubbles indicate a leak. Make certain all leaks have been repaired, and the inner and outer jacket doors have been replaced.



NOTE: Make sure tabs on inner door engage inside the opening of the inner skirt.

▲ WARNING: NEVER use an open flame to test for gas leaks as bodily injury, property damage or death could result.

Conversion Instructions—LP Gas to Natural Gas

Your water heater was factory pre-set to burn natural gas but may have been converted to burn LP gas. If your water heater has been converted to burn LP gas, and your gas supply is now natural gas, your water heater can be converted to burn natural gas as follows:

Liquefied Petroleum (LP or Propane) Gas to Natural Gas

AWARNING: This conversion kit must be installed by a qualified installer or service technician in accordance with these instructions. Installation must conform with local codes, or in their absence, with the latest edition of the National Fuel Gas Code, ANSI Z223.1. Failure to follow instructions could result in serious injury or property damage. The qualified agency performing this work assumes responsibility for this conversion.

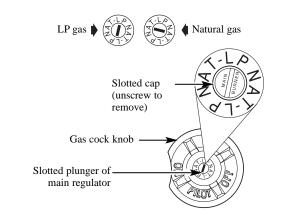
A CAUTION: The water heater is factory set to burn natural gas, but can be converted to burn LP gas. Before putting the water heater into operation, verify that the type of gas supplied to your water heater and the type of gas your water heater is set to burn are the same. If they are not, refer to these instructions.

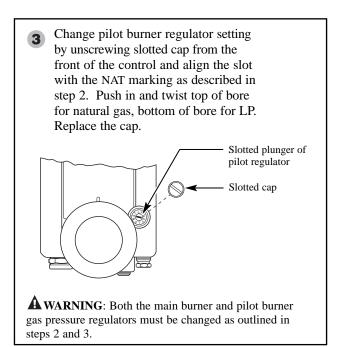
NOTICE: The parts required to make this conversion are supplied in a small bag that should be located in the plastic bag attached to the water heater. If you are unable to locate the cloth bag, a replacement can be obtained. Simply contact the manufacturer at the address below and request a replacement conversion kit.

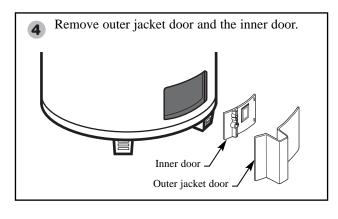
Customer Service Department 2600 Gunter Park Drive, East Montgomery, AL 36109-1413 Phone: 1-800-432-8373

Turn gas cock knob and manual shut-off valve to the OFF position.

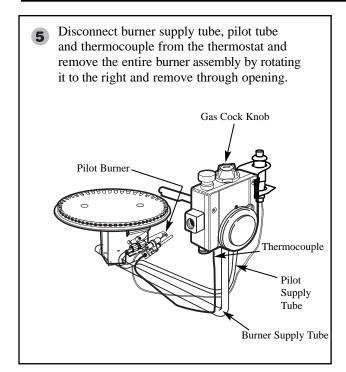
Change main burner regulator setting by unscrewing slotted cap from the gas cock knob; then with a small screwdriver depress and rotate the plunger 90° to align the slot with the NAT markings. The red disk with the white slot should "pop" up to the top of the bore in the natural gas setting and be at the bottom of the bore in the "LP" setting. Replace the cap.



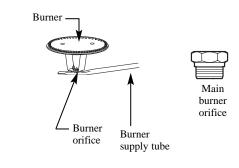


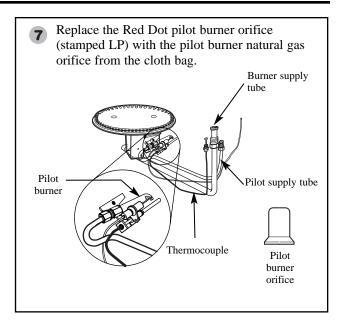


Conversion Instructions—LP Gas to Natural Gas



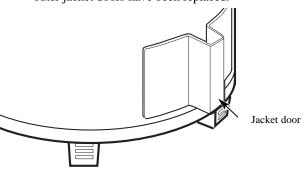
Replace the Red colored main burner orifice (stamped LP) with the main burner natural gas orifice which should be in the cloth bag after being previously removed from your water heater. Refer to the Replacement parts section in this manual for the location of the orifice on the burner assembly.





- Remove green CAUTION label from the outside of the water heater near the gas control and return it to the orifice parts bag.
- **9** Return the unused orifices to the cloth bag for possible future conversions. Return the bag and this Use and Care manual to the plastic bag attached to the water heater.
- Reinstall entire burner assembly and tighten burner supply and pilot tube.

 DO NOT over-tighten or cross-thread the thermocouple at the thermostat.
- Turn manual gas shut off valve to the ON position and light the water heater as outlined in this manual. Leak test all gas connections and caps with soap/water solution. Bubbles indicate a leak. Make certain all leaks have been repaired, and the inner and outer jacket doors have been replaced.



NOTICE: Make sure tabs on inner door engage inside the opening of the inner skirt.

AWARNING: NEVER use an open flame to test for gas leaks as bodily injury, property damage or death could result.

IF YOU NEED SERVICE



- 1. Should you have any questions about your new water heater, or if it requires adjustment, repair, or routine maintenance, it is suggested that you first contact your installer, plumbing contractor or previously agreed upon service agency. In the event the firm has moved, or is unavailable, refer to the telephone directory, commercial listings or local utility for qualified service assistance.
- 2. Should your problem not be solved to your complete satisfaction, you should then contact the Manufacturer's National Service Department at the following address:

2600 Gunter Park Drive Montgomery, Alabama 36109-1413 Phone: 1-800-432-8373.

When contacting the manufacturer, the following information will be requested:

- a. Model and serial number of the water heater as shown on the rating plate attached to the front panel of the heater.
- b. Address where the water heater is located and physical location.
- c. Name and address of installer and any service agency who performed service on the water heater.
- d. Date of original installation and dates any service work was performed.
- e. Details of the problem as you can best describe them.
- f. List of people, with dates, who have been contacted regarding your problem.