



Owners Manual

FOR POTABLE WATER HEATING ONLY
NOT SUITABLE FOR SPACE HEATING.

FOR USE ONLY IN MOBILE HOMES

Model No.

MODEL NUMBERS:

- 153.333830 30 Gal.
- 153.333930 40 Gal.

Caution:
Read and Follow
All Safety Rules and
Operating Instructions
Before First Use of
This Product.

Save this Manual for Future Reference.



ECONOMIZER™5 GAS WATER HEATER

- Safety Instructions
- Installation
- Operation
- Care and Maintenance
- Troubleshooting
- Parts List

For Your Safety

AN ODORANT IS ADDED TO THE GAS USED BY THIS WATER HEATER

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

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- WHAT TO DO IF YOU SMELL GAS**
 - 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 can not reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

▲ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause **DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.** Refer to this manual for assistance or consult the local Sears Service Center or gas utility for further information.

▲ WARNING

Flammable vapors may be drawn by air currents from other areas of the structure to this appliance.

▲ WARNING

READ THE GENERAL SAFETY SECTION BEGINNING ON INSIDE COVER AND THEN THIS ENTIRE MANUAL BEFORE INSTALLING OR OPERATING THIS WATER HEATER.

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.

Safety Precautions

▲ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause **DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE**. Refer to this manual for assistance or consult your local Sears Service-Center for further information.

▲ WARNING

WATER HEATERS EQUIPPED FOR ONE TYPE GAS ONLY: This water heater is equipped for one type gas only. Check the model rating plate near the gas control valve for the correct gas. **DO NOT USE THIS WATER HEATER WITH ANY GAS OTHER THAN THE ONE SHOWN ON THE MODEL RATING PLATE.** Failure to use the correct gas can cause problems which can result in **DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE**. If you have any questions or doubts consult your gas supplier or local utility.

▲ WARNING

INSTALLATIONS IN AREAS WHERE FLAMMABLE LIQUIDS (VAPORS) ARE LIKELY TO BE PRESENT OR STORED (GARAGES, STORAGE, AND UTILITY AREAS, ETC): Flammable liquids (such as gasoline, solvents, propane (LP) or butane, etc.), all of which emit flammable vapors, may be improperly stored or used in such areas. The gas water heater pilot light or main burner can ignite such vapors. The resulting flashback and fire can cause death or serious burns to anyone in the area, as well as property damage. If installation in such areas is your only option, then the installation must be accomplished in a way that the pilot flame and main burner flame are elevated from the floor at least 18 inches. While this may reduce the chances of flammable vapors from a floor spill being ignited, gasoline and other flammable substances should never be stored or used in the same room or area containing a gas water heater or other open flame or spark producing appliance. **NOTE:** Flammable vapors may be drawn by air currents from other areas of the structure to the appliance.

▲ WARNING

If this water heater will be used in beauty shops, barber shops, cleaning establishments, or self-service laundries with dry cleaning equipment, it is imperative that the water heater or water heaters be installed so that combustion and ventilation air be taken from outside these areas. Refer to the "Facts to Consider About the Location" section of this manual and also the latest edition of the National Fuel Gas Code, ANSI Z223.1, also referred to as NFPA 54 for specifics provided concerning air required.

▲ WARNING

A fire can start if combustible materials such as clothing, cleaning materials, or flammable liquids are placed against or next to the water heater.

▲ WARNING

At the time of manufacture this water heater was provided with a combination temperature-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 for Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems, and the latest edition of ANSI Z21.22 and the code requirements of ASME. If replaced, the valve must meet the requirements of local codes, but not less than a combination temperature and pressure relief valve certified as meeting the requirements for Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems, ANSI Z21.22 by a nationally recognized testing laboratory that maintains periodic inspection of production of listed equipment or materials.

The valve must be marked with a maximum set pressure not to exceed the marked hydrostatic working pressure of the water heater (150 lbs./sq. in.) and a discharge capacity not less than the water heater input rate as shown on the model rating plate. (Electric heaters - watts divided by 1000 x 3415 equal BTU/Hr. rate.)

Your local jurisdictional authority, while mandating the use of a temperature-pressure relief valve complying with ANSI Z21.22 and ASME, may require a valve model different from the one furnished with the water heater.

Compliance with such local requirements must be satisfied by the installer or end user of the water heater with a locally prescribed temperature-pressure relief valve installed in the designated opening in the water heater in place of the factory furnished valve.

For safe operation of the water heater, the relief valve must not be removed from its designated opening or plugged.

The temperature-pressure relief valve must be installed directly into the fitting of the water heater designated for the relief valve. Position the valve downward and provide tubing so that any discharge will exit only within 6 inches above, or at any distance below the structural floor. Be certain that no contact is made with any live electrical part. The discharge opening must not be blocked or reduced in size under any circumstances. Excessive length, over 30 feet, or use of more than four elbows can cause restriction and reduce the discharge capacity of the valve.

No valve or other obstruction is to be placed between the relief valve and the tank. Do not connect tubing directly to discharge drain unless a 6" air gap is provided. To prevent bodily injury, hazard to life, or property damage, the relief valve must be allowed to discharge water in quantities should circumstances demand. If the discharge pipe is not connected to a drain or other suitable means, the water flow may cause property damage.

The Discharge Pipe:

- Must not be smaller in size than the outlet pipe size of the valve, or have any reducing couplings or other restrictions.
- Must not be plugged or blocked.
- Must be of material listed for hot water distribution.
- Must be installed so as to allow complete drainage of both the temperature-pressure relief valve, and the discharge pipe.
- Must terminate at an adequate drain.
- Must not have any valve between the relief valve and tank.

Safety Precautions

▲ WARNING

A gas water heater cannot operate properly without the correct amount of air for combustion. Do not install in a confined area such as a closet, unless you provide air as shown in the "Facts to Consider About the Location" section. Never obstruct the flow of ventilation air. If you have any doubts or questions at all, call your gas company. Failure to provide the proper amount of combustion air can result in a fire or explosion and can cause **DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.**

▲ WARNING

HOTTER WATER CAN SCALD: Water heaters are intended to produce hot water. Water heated to a temperature which will satisfy clothes washing, dish washing, and other sanitizing needs can scald and permanently injure you upon contact. Some people are more likely to be permanently injured by hot water than others. These include the elderly, children, the infirm, or physically/mentally handicapped. If anyone using hot water in your home fits into one of these groups or if there is a local code or state law requiring a certain temperature water at the hot water tap, then you must take special precautions. In addition to using the lowest possible temperature setting that satisfies your hot water needs, a means such as a mixing valve, should be used at the hot water taps used by these people or at the water heater. Mixing valves are available at plumbing supply or hardware stores. Follow manufacturers instructions for installation of the valves. Before changing the factory setting on the thermostat, read the "Temperature Regulation" section in this manual.

▲ WARNING

Soot build-up indicates a problem that requires correction before further use. Turn "OFF" gas to water heater and leave "OFF" until repairs are made, because failure to correct the cause of the sooting can result in a fire or explosion causing **DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.**

▲ WARNING

BEFORE LIGHTING PROPANE (L.P.) GAS WATER HEATERS: Propane (L.P.) gas is heavier than air. Should there be a leak in the system, the gas will settle near the ground. Basements, crawl spaces, skirted areas under mobile homes (even when ventilated), closets and areas below ground level will serve as pockets for the accumulation of this gas. Before attempting to light or relight the water heater's pilot or turning on a nearby electrical light switch, be absolutely sure there is no accumulated gas in the area. Search for odor of gas by sniffing at ground level in the vicinity of the appliance. If odor is detected, follow steps indicated at "For Your Safety" on the cover page of this manual then leave the premises.

▲ WARNING

This water heater must not be installed directly on carpeting. Carpeting must be protected by a metal or wood panel beneath the appliance extending beyond the full width and depth of the appliance by at least 3 inches (76.2mm) in any direction, or if the appliance is installed in an alcove or closet, the entire floor must be covered by the panel. Failure to heed this warning may result in a fire hazard.

▲ WARNING

VENT DAMPERS - Any vent damper, whether it is operated thermally or otherwise must be removed if its use inhibits proper drafting of the water heater.

Thermally Operated Vent Dampers: Gas-fired water heaters having thermal efficiency in excess of 80% may produce a relatively low flue gas temperature. Such temperatures may not be high enough to properly open thermally operated vent dampers. This would cause spillage of flue gases and may cause carbon monoxide poisoning.

Vent dampers must bear evidence of certification as complying with the latest edition of American National Standard ANSI Z21.68 (ANSI Z21.66 & 67, respectively, cover electrically and mechanically actuated vent dampers). Before installation of any vent damper, consult your local Sears Service Center or the gas utility for further information.

▲ WARNING

- The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of the gas system at test pressures in excess of ½ pound per square inch (3.5kPa).
- The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal or less than ½ pound per square inch (3.5kPa).

▲ WARNING

Chemical vapor corrosion of the flue and vent system may occur if air for combustion contains certain chemical vapors. Spray can propellants, cleaning solvents, refrigerator and air conditioner refrigerants, swimming pool chemicals, calcium and sodium chloride, waxes, bleach, and process chemicals are typical compounds which are potentially corrosive.

▲ WARNING

Obstructed or deteriorated vent systems may present a serious health risk or asphyxiation.

Safety Precautions continued on page 4

Safety Precautions

▲ WARNING

The water heater with draft hood installed must be properly vented to a chimney which terminates outdoors. Never operate the water heater unless it is vented to the outdoors and has adequate air supply to avoid risks of improper operation, explosion or asphyxiation.

▲ WARNING

Minimum clearances between the water heater and combustible construction are 1" at the sides and rear, 4" at the front, and 6" from the vent pipe. Clearance from the top of the draft hood is 12". Refer to the label on the water heater located adjacent to the gas control valve for all clearances.

▲ WARNING

Do not use this appliance if any part of it has been under water. Immediately call a Sears Service Technician to inspect the appliance and to replace the gas control or any part of the burner system which has been under water.

▲ WARNING

HYDROGEN GAS: Hydrogen gas can be produced in a hot water system that has not been used for a long period of time (generally two weeks or more). Hydrogen gas is extremely flammable and explosive. To prevent the possibility of injury under these conditions, we recommend the hot water faucet be opened for several minutes at the kitchen sink before any electrical appliances which are connected to the hot water system are used (such as a dishwasher or washing machine). If hydrogen gas is present, there will probably be an unusual sound similar to air escaping through the pipe as the hot water faucet is opened. There must be no smoking or open flame near the faucet at the time it is open.

▲ WARNING

INSULATING JACKETS: When installing an external water heater insulation jacket on a gas water heater:

- DO NOT cover the temperature-pressure relief valve.
- DO NOT put insulation over any part of the top of the gas water heater.
- DO NOT put insulation over the gas control valve or gas control valve/burner cover, or any access areas to the burner.
- DO NOT let insulation around the gas water heater to get within 8 inches of the floor (air must get to the burner).
- DO NOT cover or remove operating instructions, and safety related warning labels and materials affixed to the water heater.

Failure to heed this will result in the possibility of a fire or explosion.

▲ CAUTION

WATER HEATERS EVENTUALLY LEAK: Installation of the water heater must be accomplished in such a manner that if the tank or any connections should leak, the flow of water will not cause damage to the structure. When such locations cannot be avoided, a suitable drain pan should be installed under the water heater. Drain pans are available at your local Sears store. Such a drain pan must be not greater than 1½ inches deep, have a minimum length and width of at least 2 inches greater than the water heater dimensions and must be piped to an adequate drain. The pan must not restrict combustion air flow. Under no circumstances is the manufacturer or Sears to be held liable for any water damage in connection with this water heater.

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Customer Responsibilities

Thank You for purchasing a Sears water heater. Properly installed and maintained, it should give you years of trouble free service. If you should decide that you want the new water heater professionally installed by Sears call the local Sears Service Center or any Sears store. They will arrange for prompt, quality installation by Sears authorized contractors.

Abbreviations Found In This Instruction Manual

- A.G.A. - American Gas Association
- A.N.S.I. - American National Standards Institute
- N.F.P.A. - National Fire Protection Agency

The gas fired water heater is design certified by the American Gas Association Laboratories under American National Standards for Gas Water Heaters for Installation in Manufactured Houses, (Mobile Homes).

Instructions to Mobile Home Manufacturers:

The installation must conform with the Manufactured Home Construction and Safety Standard for Mobile Home Construction and Safety Title 24 CFR, Part 3280 (Formerly the Federal Standard for Mobile Construction and Safety Title 24 (Part 280), 1975.

Instruction for replacement installation:

The installation must conform with the instructions in this manual; gas company rules; and Local Codes, or in the absence of Local Codes, with the latest edition of the National Fuel Gas code, ANSI Z223.1, also referred to as NFPA 54. This publication is available from your local government or public library or gas company or by writing NFPA, Batterymarch Park, Quincy, MA 02269.

- Read the "Safety Precautions" section, pages 2 through 4 of this manual first and then the entire manual carefully. If you don't follow the safety rules, the water heater will not operate properly. It could cause DEATH, SERIOUS BODILY INJURY AND/OR PROPERTY DAMAGE.

- This manual contains instructions for the installation, operation, and maintenance of the gas-fired water heater. It also contains warnings through out the manual that you must read and be aware of. All warnings and all instructions are essential to the proper operation of the water heater and your safety. Since we cannot put everything on the first few pages, **READ THE ENTIRE MANUAL BEFORE ATTEMPTING TO INSTALL OR OPERATE THE WATER HEATER.**

- The gas fired water heater is design certified by the American Gas Association Laboratories under American National Standards for Gas Water Heaters for Installation in Manufactured Houses, (Mobile Homes).

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Instruction for replacement installation:

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- If after reading this manual you have any questions or do not understand any portion of the instructions, call the Sears Service Center.
- Carefully plan the place where you are going to put the water heater. Correct combustion, vent action, and vent pipe installation are very important in preventing death from possible carbon monoxide poisoning and fires. Examine the location to ensure the water heater complies with the "Facts to Consider About the Location" section in this manual.
- 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 your local dealer, wholesaler, public utilities or California Office of the State Architect, 400 P Street, Sacramento, CA 95814.

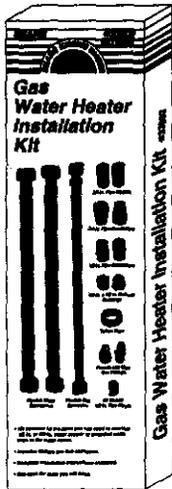
Product Specifications

MODEL NUMBER	TANK CAPACITY IN GALLONS	TYPE OF GAS	B.T.U. RATE	RECOVERY RATE GALS. PER HOUR @90°F RISE		MINIMUM VENT PIPE	DIMENSIONS IN INCHES	
				NAT.	PROPANE (L.P.)		DIAMETER	HEIGHT TO JACKET TOP
153.333830	30	NAT/PROPANE (L.P.)	30,000	31.0	31.0	3"	16"	56"
153.333930	40	NAT/PROPANE (L.P.)	30,000	31.0	31.0	3"	18"	56½"

Materials and Basic Tools Needed

Materials Needed

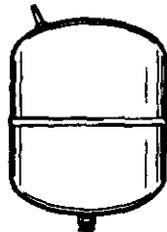
To simplify the installation Sears has available the installation parts shown below. You may or may not need all of these materials, depending on your type of installation.



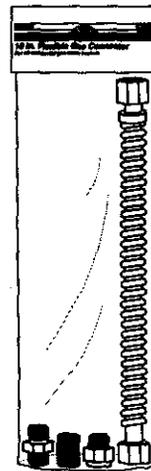
WATER HEATER INSTALLATION KIT WITH FLEXIBLE CONNECTORS FOR 3/4" OR 1/2" THREADED COPPER PLUMBING



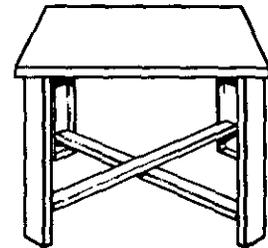
VENT ELBOW



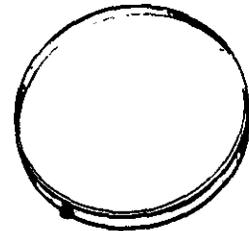
EXPANSION TANKS FOR THERMAL EXPANSION CONDITIONS AVAILABLE IN 2 GALLON AND 5 GALLON CAPACITY THROUGH LOCAL SEARS STORE OR SERVICE CENTERS



FLEXIBLE WATER HEATER GAS CONNECTOR WITH FITTINGS



WATER HEATER STAND 24"x24"x18" FOR USE WITH WATER HEATERS INSTALLED IN RESIDENTIAL GARAGES HAVING A DIAMETER 24" OR LESS AND A RATED CAPACITY 75 GALLONS OR LESS



DRAIN PANS AVAILABLE IN 20" DIAMETER FOR WATER HEATERS HAVING A DIAMETER 18" OR LESS AND AVAILABLE IN 28" DIAMETER FOR WATER HEATERS HAVING A DIAMETER 26" OR LESS



VENT PIPE



WATER HEATER HEAT TRAPS HELP REDUCE HEAT LOSS DUE TO THERMAL SYPHONING

Basic Tools

You may or may not need all of these tools, depending on your type of installation. These tools can be purchased at your local Sears store.

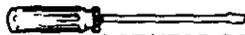
- Pipe Wrenches (2) 14"
- Screwdriver
- Tin Snips
- 6 Foot Tape of Folding Rule
- Garden Hose
- Drill
- Pipe dope or Teflon Tape



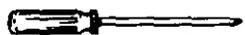
GARDEN HOSE



6 FOOT TAPE



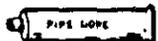
SLOT-HEAD SCREWDRIVER



PHILLIPS SCREWDRIVER



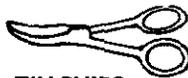
ROLL OF TEFLON TAPE (USE ONLY ON WATER CONNECTIONS)



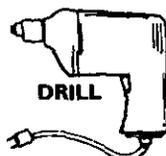
PIPE DOPE (SQUEEZE TUBE) (USE FOR WATER AND GAS CONNECTIONS)



PIPE WRENCH



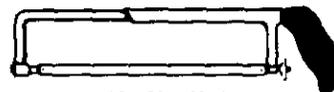
TIN SNIPS



DRILL

ADDITIONAL TOOLS NEEDED WHEN SWEAT SOLDERING

- Tubing Cutters or Hacksaw
- Propane Torch
- Soft Solder
- Solder Flux
- Emery Cloth
- Wire Brushes



HACKSAW



3/4" WIRE BRUSH



1/2" WIRE BRUSH



ROLL OF LEAD FREE SOFT SOLDER



ROLL OF EMERY CLOTH



SOLDER FLUX



PROPANE TORCH



TUBING CUTTER

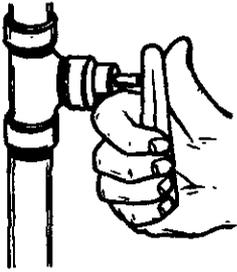
Installation Instructions

Removing the Old Water Heater

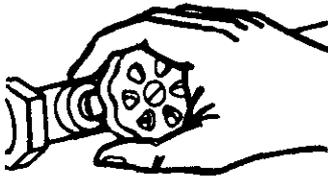
- 1 Turn "OFF" the gas supply to the water heater.

▲ WARNING

If the main gas line shutoff serving all gas appliances is used, also shut "OFF" the gas at each appliance. Leave all gas appliances shut "OFF" until the water heater installation is complete.

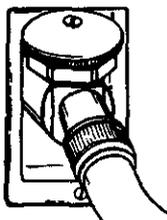


- 2 Turn "OFF" the water to the water heater. Some installations require that the water be turned off to the entire house.



- 3 Check again to make sure the gas supply is "OFF" to the water heater. Then disconnect the gas supply connection from the gas control valve.

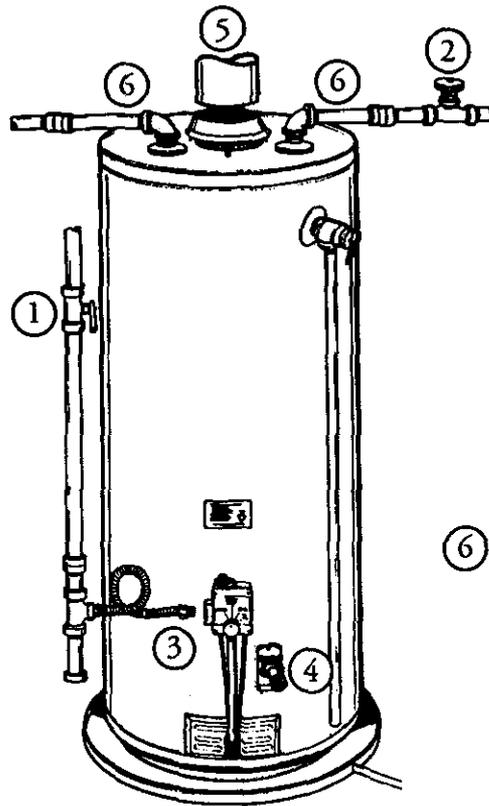
- 4 Attach a hose to the water heater drain valve and put the other end in a floor drain or outdoors. Open the water heater drain valve. Open a nearby hot water faucet which will relieve pressure in the water heater and speed draining.



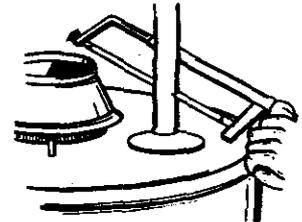
▲ WARNING

The water passing out of the drain valve may be extremely hot. To avoid being scalded, make sure all connections are tight and that the water flow is directed away from any person.

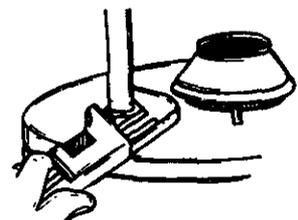
- 5 Disconnect the vent pipe from the draft hood where they connect to the water heater. In most installations the vent pipe can be lifted off after any screw or other attached devices are removed. Dispose of the draft hood. The new water heater has the draft hood which must be used for proper operation.



- 6 a. If you have copper piping to the water heater, the two copper water pipes can be cut with a hacksaw approximately 4" away from where they connect to the water heater. This will avoid cutting off the pipes too short. Additional cuts can be made later if necessary. Disconnect the temperature-pressure relief valve drain line. When the water heater is drained, disconnect the hose from the drain valve. Close the drain valve. The water heater is now completely disconnected and ready to be removed.



- 6 b. If you have galvanized pipe to the water heater, loosen the two galvanized pipes with a pipe wrench at the union in each line. Also disconnect the piping remaining to the water heater. These pieces should be saved since they may be needed when reconnecting the new water heater. Disconnect the temperature-pressure relief valve drain line. When the water heater is drained, disconnect the hose from the drain valve. Close the drain valve. The water heater is now completely disconnected and ready to be removed.



▲ CAUTION

Mineral buildup or sediment may have accumulated in the old water heater. This causes the water heater to be much heavier than normal and this residue, if spilled out, could cause staining.

Installation Instructions (cont'd)

Facts to Consider About the Location

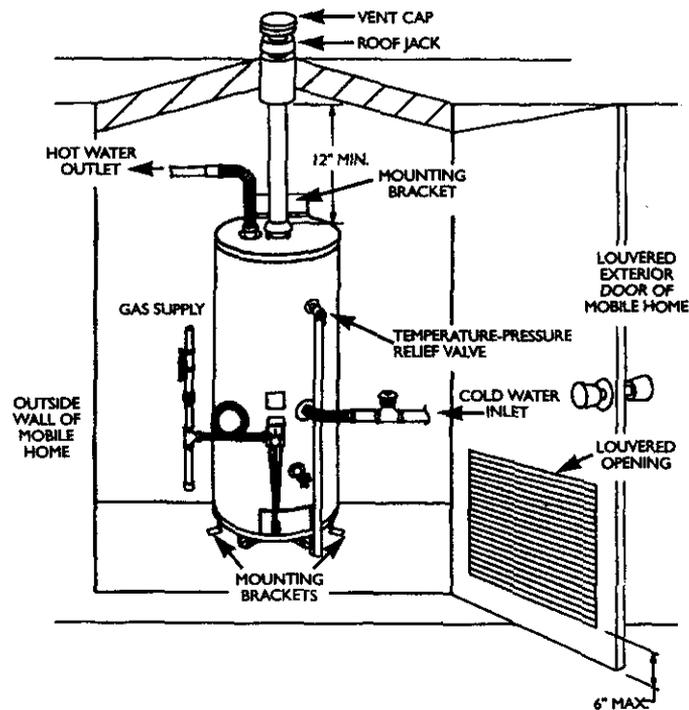
Whether replacing an old water heater or putting the water heater in a new location, the following critical points must be observed.

This mobile home gas-fired water heater is for use in a mobile home. You should carefully choose an indoor location for the new water heater, because the placement is a very important consideration for the safety of the occupants in the building and for the most economical use of the appliance. **This water heater is for use only in mobile homes and is not intended for outdoor installation.**

ENCLOSURE INSTALLATIONS:

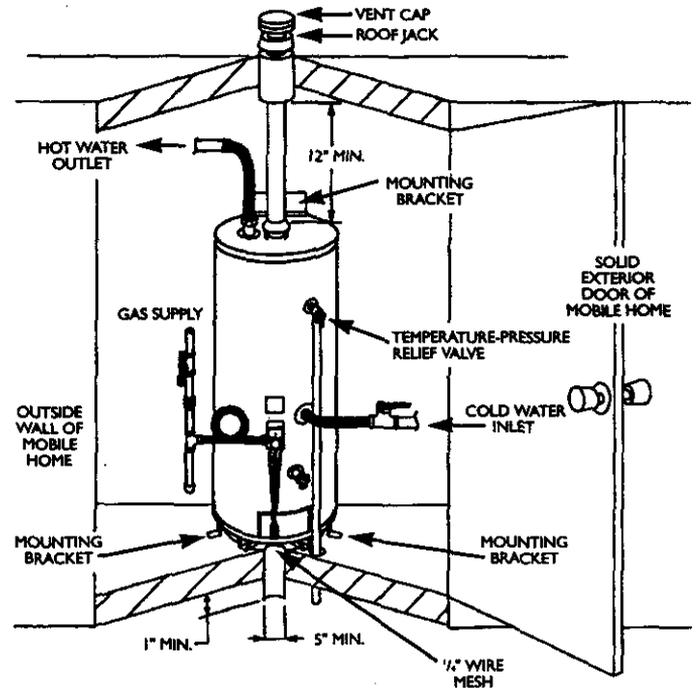
The installation of this water heater must be within an enclosure so as to separate the appliance combustion system and venting system from the interior atmosphere of the mobile home. There shall not be any door, removable access panel, or other opening into the enclosure from the inside of the mobile home. This water heater must be installed using Method A or B.

INSTALLATION METHOD A: An enclosure with an exterior access door incorporating a single opening positioned a maximum of 6" above the lower edge of the access door and which may incorporate either 1/4" wire mesh or louvers. When 1/4" wire mesh is used, the size of the opening must be a minimum of 20 square inches. When the louvers are used, the area must be a minimum of 20 square inches.



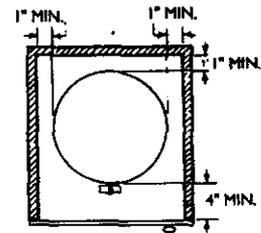
INSTALLATION IN ENCLOSURE OF MOBILE HOME WITH LOUVERED EXTERIOR DOOR

INSTALLATION METHOD B: An optional enclosure incorporating a solid exterior access door, when a 5" or 8" diameter, or 20 square inch minimum equivalent free air opening is located in the floor of the enclosure. The opening must be covered by a 1/4" wire mesh.



INSTALLATION IN ENCLOSURE OF MOBILE HOME WITH SOLID EXTERIOR DOOR

Install water heater into closet so as to have 1" minimum clearance at sides and back. Clearance of 4" is needed to front to accommodate the gas control valve. Be sure to allow adequate clearance for servicing the water heater and for access to the piping and temperature-pressure relief valve.



NOTE: DOOR MUST BE ON OUTSIDE WALL OF MOBILE HOME.

INSTALLATION CLEARANCES TOP VIEW

Installation Instructions (cont'd)

Facts to Consider About the Location (cont'd)

▲ WARNING

Minimum clearances between the water heater and combustible construction are 1" at the sides and rear, 4" at the front, and 6" from the vent pipe. Clearance from the top of the jacket is 12" on most models. Note that a lesser dimension may be allowed on some models. Refer to the label on the water heater adjacent to the gas control valve for all clearances.

The water heater should be secured to the floor and to the wall of the enclosure with the mounting brackets provided. For bracket location refer to "Securing Water Heater to Floor and Wall" in the "Installation Instructions" section.

When a mobile home is skirted, an air intake opening with a minimum free area of 32 square inches must be provided in the skirt. If the opening is covered by louvers or screen, the total free area must be 32 square inches. Other gas fired appliances in the home will require additional free air openings; consult these manufacturers for correct sizing.

▲ WARNING

A gas water heater cannot operate properly without the correct amount of air for combustion. Do not install in a confined area such as a closet, unless you provide air as shown in the "Facts to Consider About the Location" section on page 9. Never obstruct the flow of ventilation air. If you have any doubts or questions at all, call your gas company or Sears Service Center. Failure to provide the proper amount of combustion air can result in a fire or explosion and can cause DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.

▲ WARNING

When the system requires water at temperatures higher than required for other uses, the hot water system may require a means such as a mixing valve to be installed to temper the water at certain points of use. Some people are more likely to be permanently injured by hot water than others; these include the elderly, children, the infirm, or the physically/mentally handicapped. Before immersing yourself or anyone else in hot water, be sure to check the water temperature. **WARNING: HOT-TER WATER INCREASES THE RISK OF SCALD INJURY.** (Also see "Temperature Regulation" section) Mixing valves are available at plumbing supply or hardware stores. Follow manufacturers instructions for installation of these valves.

▲ WARNING

This water heater shall not be connected to any heating systems or component(s) previously used with a nonpotable water heating appliance.

▲ WARNING

If this water heater will be used in beauty shops, barber shops, cleaning establishments, or self-service laundries with dry cleaning equipment, it is imperative that the water heater or water heaters be installed so that combustion and ventilation air be taken from outside these areas. Refer to the "Facts to Consider About the Location" section of this manual and also the latest edition of the National Fuel Gas Code, ANSI Z223.1, also referred to as NFPA 54 for specifics provided concerning air required.

▲ WARNING

Toxic chemicals such as used for treatment of boilers or non-potable water heating appliances shall never be introduced into a potable water heating system.

▲ CAUTION

WATER HEATERS EVENTUALLY LEAK: Installation of the water heater must be accomplished in such a manner that if the tank or any connections should leak, the flow of water will not cause damage to the structure. When such locations cannot be avoided, a suitable drain pan should be installed under the water heater. Drain pans are available at your local Sears store. Such a drain pan must be not greater than 1½ inches deep, have a minimum length and width of at least 2 inches greater than the water heater dimensions and must be piped to an adequate drain. The pan must not restrict combustion air flow. Under no circumstances is the manufacturer or Sears to be held liable for any water damage in connection with this water heater.

When a drain pan is required, the installation must conform to "Method A" on page 9.

▲ WARNING

INSTALLATIONS IN AREAS WHERE FLAMMABLE LIQUIDS (VAPORS) ARE LIKELY TO BE PRESENT OR STORED (GARAGES, STORAGE, AND UTILITY AREAS, ETC): Flammable liquids (such as gasoline, solvents, propane (LP) or butane, etc.), all of which emit flammable vapors, may be improperly stored or used in such areas. The gas water heater pilot light or main burner can ignite such vapors. The resulting flashback and fire can cause death or serious burns to anyone in the area, as well as property damage. If installation in such areas is your only option, then the installation must be accomplished in a way that the pilot flame and main burner flame are elevated from the floor at least 18 inches. While this may reduce the changes of flammable vapors from a floor spill being ignited, gasoline and other flammable substances should never be stored or used in the same room or area containing a gas water heater or other open flame or spark producing appliance. **NOTE:** Flammable vapors may be drawn by air currents from other areas of the structure to the appliance.

▲ WARNING

Propellants of aerosol sprays and volatile compounds, (cleaners, chlorine based chemicals, refrigerants, etc.) in addition to being highly flammable in many cases, will also change to corrosive hydrochloric acid when exposed to the combustion products of the water heater. The results can be hazardous, and also cause product failure.

▲ WARNING

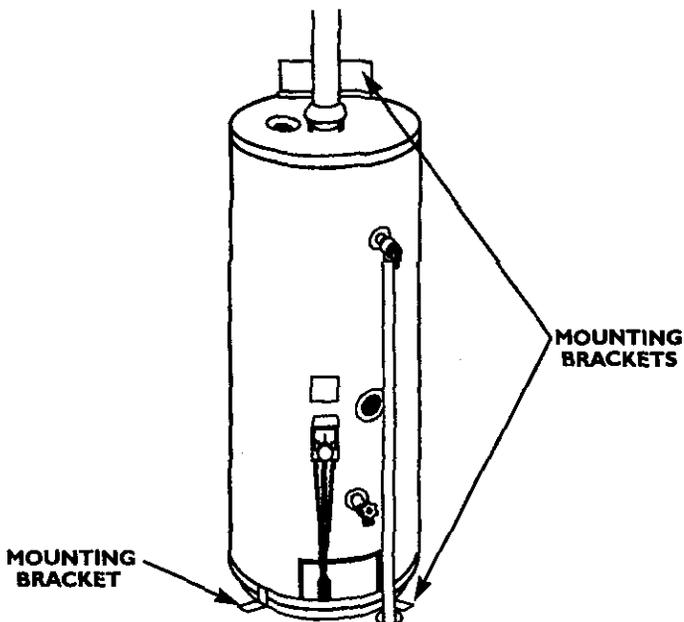
This water heater must not be installed directly on carpeting. Carpeting must be protected by a metal or wood panel beneath the appliance extending beyond the full width and depth of the appliance by at least 3 inches (76.2mm) in any direction, or if the appliance is installed in an alcove or closet, the entire floor must be covered by the panel. Failure to heed this warning may result in a fire hazard.

Installation Instructions (cont'd)

Securing Water Heater to Floor and Wall

The water heater must be secured to the floor and to the wall of the enclosure with the three mounting brackets and screws packaged in the carton with the water heater. The two small brackets stamped #0110064 are used to attach the water heater to the floor and the one large #0110063 bracket is used to secure the top of the water heater to the wall.

Because of installation variances these brackets can be located at any points around the circumference of the jacket. When the bracket locations are determined using the $\frac{1}{8}$ " drill bit for a pattern, drill only through the outer jacket of the water heater. Then using the screws provided, secure the bracket to the water heater, floor and wall.



Water Piping

▲ WARNING

HOTTER WATER CAN SCALD: Water heaters are intended to produce hot water. Water heated to a temperature which will satisfy clothes washing, dish washing, and other sanitizing needs can scald and permanently injure you upon contact. Some people are more likely to be permanently injured by hot water than others. These include the elderly, children, the infirm, or physically/mentally handicapped. If anyone using hot water in your home fits into one of these groups or if there is a local code or state law requiring a certain temperature water at the hot water tap, then you must take special precautions. In addition to using the lowest possible temperature setting that satisfies your hot water needs, a means such as a mixing valve, should be used at the hot water taps used by these people or at the water heater. Mixing valves are available at plumbing supply or hardware stores. Follow manufacturers instructions for installation of the valves. Before changing the factory setting on the thermostat, read the "Temperature Regulation" section in this manual.

▲ WARNING

This water heater shall not be connected to any heating systems or component(s) now or previously used with a non-potable water heating appliance.

▲ WARNING

Toxic chemicals such as used for treatment of boilers or non-potable water heating appliances shall never be introduced into a potable water heating system.

If a water heater is installed in a closed water supply system; such as one having a back-flow preventer, check valve, water meter with a check valve, etc... in the cold water supply; means shall be provided to control thermal expansion. Contact the local utility or local Sears Service Center on how to control this situation.

NOTE: To protect against untimely corrosion of hot and cold water fittings, it is strongly recommended that di-electric unions or couplings be installed on this water heater when connected to copper pipe.

The illustration shows the attachment of the water piping to the water heater. The water heater is equipped with $\frac{3}{4}$ " water connections .

NOTE: If using copper tubing, solder tubing to an adaptor before attaching the adaptor to the cold water inlet connection. Do not solder the cold water supply line directly to the cold water inlet. It will harm the dip tube and damage the tank.

Installation Instructions (cont'd)

Water Piping (cont'd)

- Look at the top cover of the water heater. The water outlet is marked hot. Put two or three turns of teflon tape around the threaded end of the threaded-to-sweat coupling and around both ends of the 3/4" threaded nipple. Using flexible connectors, connect the hot water pipe to the hot water outlet of the water heater.
- Look at the lower right side of the water heater. The cold water inlet is marked cold. Put two or three turns of teflon tape around the threaded end of the threaded-to-sweat coupling and around both ends of the 3/4" threaded nipple. Using flexible connectors, connect the cold water pipe to the cold water inlet of the water heater.

NOTE: This water heater is insulated to minimize heat loss from the tank. Further reduction in heat loss can be accomplished by insulating the hot water lines from the water heater.

WATER PIPING PRESSURE TEST

This section is only for the mobile home manufacturer installing the water heater when the installation is to comply with H.U.D. Standards.

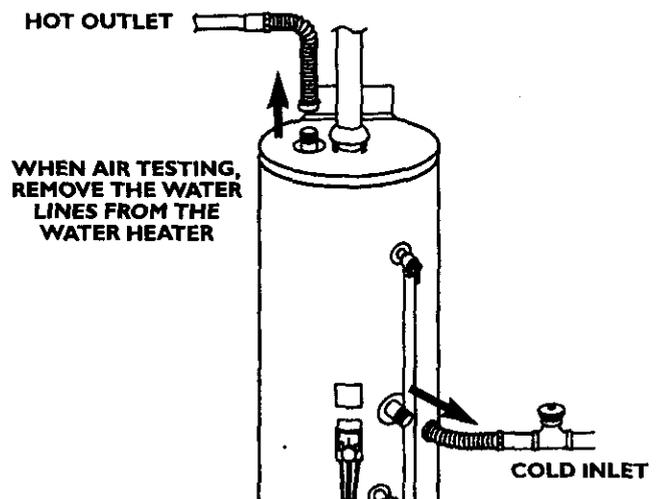
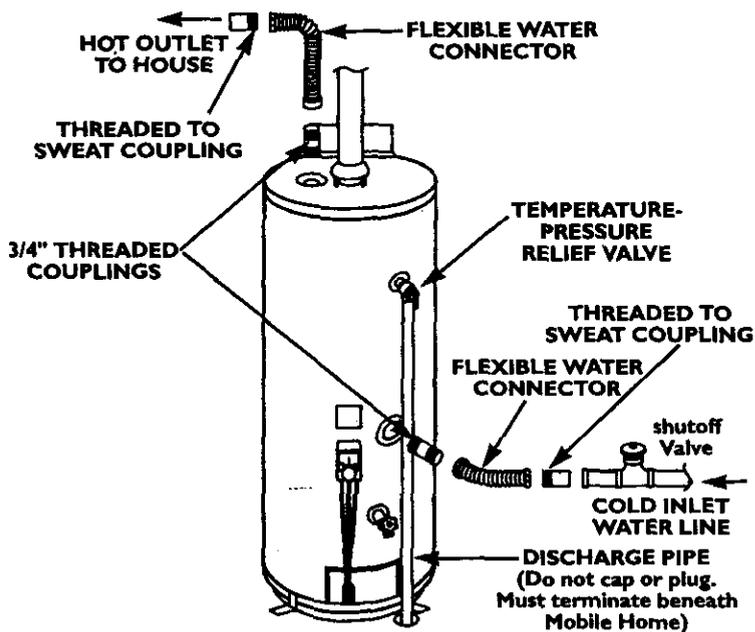
When testing the water ways, H.U.D. Standards state:

"Water distribution system. All water piping in the water distribution system shall be subjected to a pressure test. The test shall be made by subjecting the system to air or water at 100 psi for 15 minutes without loss of pressure. **When air pressure is used, the water heater shall not be connected during the test.**"

⚠ WARNING

If the water piping system is to be air pressure tested, the water heater must be disconnected from the water piping system. Failure to disconnect the water heater during air pressure testing of the water piping system could result in DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.

INSTALLATION COMPLETED USING SEARS INSTALLATION KIT



Installation Instructions (cont'd)

Temperature-Pressure Relief Valve

▲ WARNING

At the time of manufacture this water heater was provided with a combination temperature-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 for Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems, and the latest edition of ANSI Z21.22 and the code requirements of ASME. If replaced, the valve must meet the requirements of local codes, but not less than a combination temperature and pressure relief valve certified as meeting the requirements for Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems, ANSI Z21.22 by a nationally recognized testing laboratory that maintains periodic inspection of production of listed equipment or materials.

The valve must be marked with a maximum set pressure not to exceed the marked hydrostatic working pressure of the water heater (150 lbs./sq. in.) and a discharge capacity not less than the water heater input rate as shown on the model rating plate. (Electric heaters - watts divided by 1000 x 3415 equal BTU/Hr. rate.)

Your local jurisdictional authority, while mandating the use of a temperature-pressure relief valve complying with ANSI Z21.22 and ASME, may require a valve model different from the one furnished with the water heater.

Compliance with such local requirements must be satisfied by the installer or end user of the water heater with a locally prescribed temperature-pressure relief valve installed in the designated opening in the water heater in place of the factory furnished valve.

For safe operation of the water heater, the relief valve must not be removed from its designated opening or plugged.

The temperature-pressure relief valve must be installed directly into the fitting of the water heater designated for the relief valve. Position the valve downward and provide tubing so that any discharge will exit only within 6 inches above, or at any distance below the structural floor. Be certain that no contact is made with any live electrical part. The discharge opening must not be blocked or reduced in size under any circumstances. Excessive length, over 30 feet, or use of more than four elbows can cause restriction and reduce the discharge capacity of the valve.

No valve or other obstruction is to be placed between the relief valve and the tank. Do not connect tubing directly to discharge drain unless a 6" air gap is provided. To prevent bodily injury, hazard to life, or property damage, the relief valve must be allowed to discharge water in quantities should circumstances demand. If the discharge pipe is not connected to a drain or other suitable means, the water flow may cause property damage.

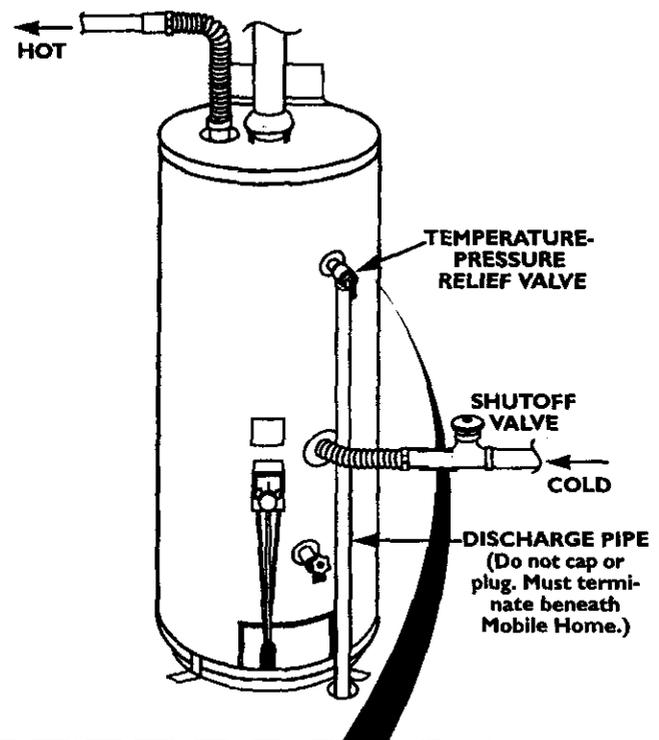
The Discharge Pipe:

- Must not be smaller in size than the outlet pipe size of the valve, or have any reducing couplings or other restrictions.
- Must not be plugged or blocked.
- Must be of material listed for hot water distribution.
- Must be installed so as to allow complete drainage of both the temperature-pressure relief valve, and the discharge pipe.
- Must terminate at an adequate drain.
- Must not have any valve between the relief valve and tank.

▲ WARNING

The temperature-pressure relief valve must be manually operated at least once a year. Caution should be taken to ensure that (1) no one is in front of or around the outlet of the temperature-pressure relief valve discharge line, and (2) the water manually discharged will not cause any bodily injury or property damage because the water may be extremely hot.

If after manually operating the valve, it fails to completely reset and continues to release water, immediately close the cold water inlet to the water heater, follow the draining instructions, and replace the temperature-pressure relief valve with a new one.



RELIEF VALVE OPENING

At the time of manufacture, this water heater was provided with a combination temperature-pressure relief valve listed as complying with the standard for relief valves and automatic gas shut-off devices for hot water supply systems, ANSI Z21.22. For safe operation of the water heater, the relief valve must not be removed from its designated point of installation or plugged.

Your local jurisdictional authority, while mandating the use of a temperature-pressure relief valve complying with ANSI Z21.22 and ASME, may require a valve model different from the one furnished with the water heater.

Compliance with such local requirements must be satisfied by the installer or end user of the water heater with a locally prescribed temperature-pressure relief valve installed in the designated opening in the water heater.

See manual heading - "Temperature-Pressure Relief Valves" for installation and maintenance of relief valve, discharge line, and other safety precautions.

Installation Instructions (cont'd)

Filling the Water Heater

▲ CAUTION

Never use this water heater unless it is completely filled with water. To prevent damage to the tank, the tank must be filled with water. Water must flow from the hot water faucet before turning "ON" gas to the water heater.

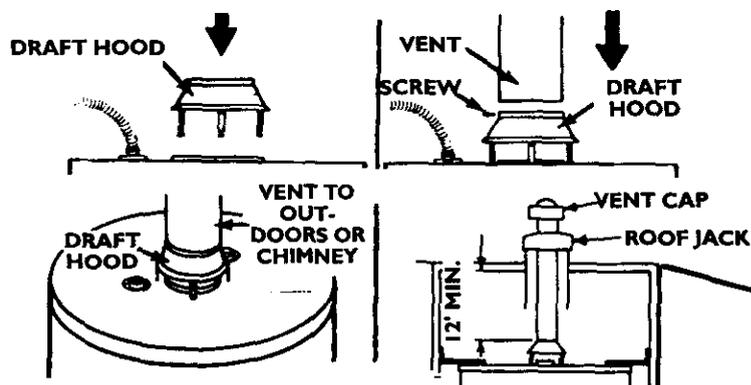
To fill the water heater with water:

- Close the water heater drain valve by turning the handle to the right (clockwise). The drain valve is on the lower front of the water heater.
- Open the cold water supply valve to the water heater.
NOTE: The cold water supply valve must be left open when the water heater is in use.
- To insure complete filling of the tank, allow air to exit by opening the nearest hot water faucet. Allow water to run until a constant flow is obtained. This will let air out of the water heater and the piping.
- Check all new water piping for leaks. Repair as needed.

Venting

- Place the draft hood legs in the receiving holes on the top of the water heater. The legs will snap in the holes to give a tight fit.
- Place the vent pipe over the draft hood. With the vent pipe in position, drill a small hole through both the vent pipe and draft hood. Secure them together with a sheet metal screw.

DRAFT HOOD INSTALLATION



▲ WARNING

VENT DAMPERS - Any vent damper, whether it is operated thermally or otherwise must be removed if its use inhibits proper drafting of the water heater.

Thermally Operated Vent Dampers: Gas-fired water heaters having thermal efficiency in excess of 80% may produce a relatively low flue gas temperature. Such temperatures may not be high enough to properly open thermally operated vent dampers. This would cause spillage of flue gases and may cause carbon monoxide poisoning.

Vent dampers must bear evidence of certification as complying with the latest edition of the American National Standard ANSI Z21.68 (ANSI Z21.66 & 67, respectively, cover electrically and mechanically actuated vent dampers). Before installation of any vent damper, consult the local Sears Service Center or gas utility for further information.

▲ WARNING

To insure proper venting of this gas-fired water heater, the correct vent pipe diameter must be utilized. Any additions or deletions of other gas appliances on a common vent with this water heater may adversely affect the operation of the water heater. Consult the local Sears Service Center or gas utility if any such changes are planned.

Check the venting system for signs of obstruction or deterioration and replace if needed.

The combustion and ventilation air flow must not be obstructed.

▲ WARNING

The water heater with draft hood installed must be properly vented to a chimney which terminates outdoors. Never operate the water heater unless it is vented to the outdoors and has adequate air supply to avoid risks of improper operation, explosion or asphyxiation.

▲ WARNING

Obstructed or deteriorated vent systems may present a serious health risk or asphyxiation.

All vent gases must be completely vented to the outdoors of the structure (dwelling). Install only the draft hood provided with the new water heater and no other draft hood.

Vent pipes must be secured at each joint with sheet metal screws.

The water heater must be connected to a roof jack: The vent pipe from the water heater to the roof jack must be no less than the diameter of the draft hood outlet (min. 3") on the water heater.

This water heater may be installed with single wall or Type B vent pipe connection to the draft hood and the following U.L. listed roof jacks not furnished.

Triangle Products No. 773-50

Vent Line No. 2073

Strawsine No. 73T

White Metal Products 3RJ

There must be a minimum clearance of 12" between the top of the draft hood and the top of the enclosure.

The draft hood and combustion air inlet to the water heater must be in the same atmospheric pressure zone. Do not separate by a wall, shelf, ceiling, partition, or any other means.

▲ WARNING

Failure to have required clearances between vent piping and combustible material will result in a fire hazard.

▲ WARNING

Be sure vent pipe is properly connected to prevent escape of dangerous flue gases which could cause deadly asphyxiation.

Installation Instructions (cont'd)

Venting (cont'd)

▲ WARNING

Chemical vapor corrosion of the flue and vent system may occur if air for combustion contains certain chemical vapors. Spray can propellants, cleaning solvents, refrigerator and air conditioner refrigerants, swimming pool chemicals, calcium and sodium chloride, waxes, bleach and process chemicals are typical compounds which are potentially corrosive.

Gas Piping

▲ WARNING

Make sure the gas supplied is the same type listed on the model rating plate. The inlet gas pressure must not exceed 14 inches water column $\frac{1}{2}$ pound per square inch (3.5kPa). The minimum inlet gas pressure listed on the model rating plate is for the purpose of input adjustment.

▲ WARNING

If the gas control valve is subjected to pressures exceeding $\frac{1}{2}$ pound per square inch (3.5kPa), the damage to the gas control valve could result in a fire or explosion from leaking gas.

▲ WARNING

If the main gas line shutoff serving all gas appliances is used, also turn "OFF" the gas at each appliance. Leave all gas appliances shut off until the water heater installation is complete.

A gas line of sufficient size must be run to the water heater. Consult the latest edition of National Fuel Gas Code ANSI Z223.1, also referred to as NFPA54 and the gas company concerning pipe size.

There must be:

- A readily accessible manual shut off valve in the gas supply line serving the water heater, and
- A drip leg (sediment trap) ahead of the gas control valve to help prevent dirt and foreign materials from entering the gas control valve.
- A flexible gas connector or a ground joint union between the shutoff valve and control valve to permit servicing of the unit.

Be sure to check all the gas piping for leaks before lighting the water heater. Use a soapy water solution, not a match or open flame. Rinse off soapy solution and wipe dry.

▲ WARNING

The appliance and its gas connection must be leak tested before placing the appliance in operation.

▲ WARNING

- The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of the gas system at test pressures in excess of $\frac{1}{2}$ pound per square inch (3.5kPa).
- The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal or less than $\frac{1}{2}$ pound per square inch (3.5kPa).

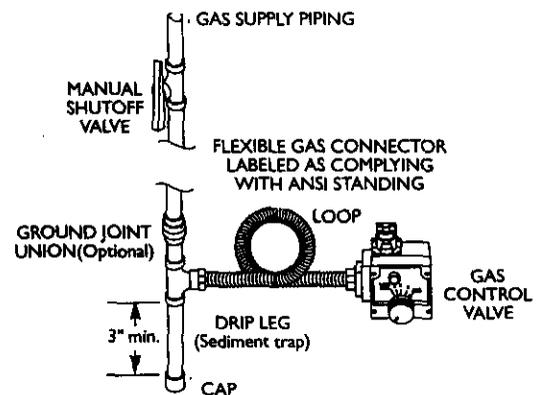
▲ WARNING

Use pipe joint compound or teflon tape marked as being resistant to the action of petroleum [Propane (L.P.)] gases.

SEDIMENT TRAP

A sediment trap shall be installed as close to the inlet of the water heater as practical at the time of water heater installation. The sediment trap shall be either a tee fitting with a capped nipple in the bottom outlet or other device recognized as an effective sediment trap. If a tee fitting is used, it shall be installed in conformance with one of the methods of installation shown below.

GAS PIPING WITH FLEXIBLE CONNECTOR



▲ WARNING

Contaminants in the gas lines may cause improper operation of the gas control valve that may result in fire or explosion. Before attaching the gas line be sure that all gas pipe is clean on the inside. To trap any dirt or foreign material in the gas supply line, a drip leg (sometimes called a sediment trap) must be incorporated in the piping. The drip leg must be readily accessible. Install in accordance with the "Gas Piping" section. Refer to the latest edition of the National Fuel Gas Code, ANSI Z223.1, also referred to as NFPA 54.

Installation Instructions (cont'd)

"Fuel" Conversion Instructions From Natural Gas To Propane (L.P.) Gas

▲ WARNING

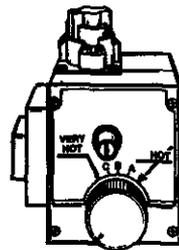
This water heater has been factory equipped to operate with the type gas indicated in the "EQUIPPED FOR" area of the model rating plate located near the gas control valve. The indicated gas may be either Natural or Propane (L.P.). By following the conversion instructions in this manual or the instructions near the gas control valve, the water heater must be converted if it is to be used with the opposite gas. **DO NOT USE THIS WATER HEATER WITH ANY GAS OTHER THAN THE ONE LISTED ON THE MODEL RATING PLATE.** Failure to use the correct gas can cause problems which can result in **DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.** If you have any questions or doubts consult your gas supplier or gas company.

Read and follow detailed conversion instructions located on the water heater and also in this manual in their entirety before starting the conversion.

Conversion kit with necessary parts are in a bag attached to the drain valve.

- Step 1. Turn gas control knob "A" to "PILOT". Depress and turn "OFF". (See Figure 1, page 17).
- Step 2. Remove outer and inner access doors from water heater.
- Step 3. Remove burner assembly from water heater and control by loosening $\frac{3}{4}$ " nut "H" holding burner assembly to control. (See Figure 2, page 17). Loosen pilot tube nut "J" and thermocouple nut "K" at control.
- Step 4. Remove screws "D" disengaging manifold from burner. (See Figure 3, page 17)
- Step 5. Remove orifice "E" (See Figure 3, page 17) using $\frac{3}{8}$ " wrench. Install orifice marked "L.P." found in the bag into manifold. Tighten securely. Secure burner to manifold with screws "D".
- Step 6. Loosen pilot tube nut "F" (See Figure 4, page 17). Remove orifice "G" and replace with blue colored orifice found in bag. Reinstall nut "F" and tighten securely.
- Step 7. Make sure all connections are tightened securely, and reinstall burner assembly into water heater. Position end of the manifold inside bracket as shown in Figure 3 on page 17. Reinstall manifold into control and tighten $\frac{3}{4}$ " nut ("H") securely. Recheck to see that end of manifold is still inside bracket as shown in Figure 3 on page 17. Reinstall pilot tubing and thermocouple into control. (See Figure 2, page 17)
- Step 8. Place screwdriver in slot "B". (See Figure 1, page 17). Depress and turn counter-clockwise (↺) to stop. Control screw must be in "IN" position for propane (L.P.) gas and in "OUT" position for natural gas. STOP! Read label "For Your Safety" located on your water heater.

- Step 9. Set the thermostat to lowest setting by turning the water temperature dial clockwise (↻) to its lowest temperature setting (with arrow on dial) as shown. DO NOT FORCE.



- Step 10. Turn gas control knob clockwise (↻) to "OFF" position. Knob cannot be turned from "PILOT" to "OFF" unless knob is depressed slightly. DO NOT FORCE.
- Step 11. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information on "For Your Safety" label. If you don't smell gas, go to the next step.
- Step 12. Find pilot-follow metal tube from gas control. The pilot is located on the right hand side of the burner. (See Figure 4, page 17)

PILOT BURNER  THERMOCOUPLE

- Step 13. If you don't smell gas, turn knob on gas control counter-clockwise (↺) to "PILOT" position.
- Step 14. Push in control knob all the way and hold down. Immediately light the pilot with a match. Continue to hold control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 9 through 12.
 - If knob does not pop up when released, stop and immediately call the Sears Service Center or gas supplier.
 - If the pilot will not stay lit after several tries, depress and turn the gas control knob clockwise (↻) to "OFF" and call the Sears Service Center or gas supplier.
- Step 15. Check for gas leaks with only pilot flame burning using a soapy water solution, not a match or open flame. Check for gas leaks at fittings "F" and "G" (See Figure 4, page 17) and at fitting "J" (See Figure 2, page 17).
- Step 16. Make sure temperature adjustment dial is turned clockwise (↻) in its lowest position (See Figure 1, page 17).
- Step 17. Replace inner and outer doors.
- Step 18. At arms length away turn gas control knob to the full "ON" position. **WARNING: Do not use gas control knob to regulate gas flow.** Turn temperature adjustment dial counter-clockwise (↺) until gas flows to main burner and ignites.
- Step 19. With a soapy water solution, not a match or open flame, check for gas leaks at gas connection "H". (See Figure 2, page 17). If gas leak occurs, turn off immediately by shutting off gas cock at inlet to control, or by turning gas control knob (↻) to "PILOT" pushing down and turning to "OFF". Repair gas leak as necessary, and repeat steps 9 through 19.

Installation Instructions (cont'd)

Step 20. At arm's length away, set the thermostat to desired setting. The mark (▼) HOT indicative of approx. 120°F is preferred starting point. If hotter water is desired see the "Temperature Regulation" section in this manual.

▲ WARNING

Hotter water increases the risk of scald injury. Before changing temperature setting see the "Temperature Regulation" section in this manual.

Step 21. Replace the outer door if not replaced in step 17.

Step 22. Remove adhesive label found in conversion kit and place next to the model rating plate. Mark label indicating for which type gas the water heater is now equipped.

"Fuel" Conversion Instructions From Propane (L.P.) Gas To Natural Gas

▲ WARNING

This water heater has been factory equipped to operate with the type gas indicated in the "EQUIPPED FOR" area of the model rating plate located near the gas control valve. The indicated gas may be either Natural or Propane (L.P.). By following the conversion instructions in this manual or the instructions near the gas control valve, the water heater must be converted if it is to be used with the opposite gas. **DO NOT USE THIS WATER HEATER WITH ANY GAS OTHER THAN THE ONE LISTED ON THE MODEL RATING PLATE.** Failure to use the correct gas can cause problems which can result in **DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.** If you have any questions or doubts consult your gas supplier or gas company.

To convert from Propane (L.P.) gas to Natural gas, follow the "Fuel" Conversion Instructions From the "Natural Gas to Propane (L.P.) Gas" section except in Step 5, use orifice "E", marked "NAT.". In Step 6 use pilot orifice "G", brass color and in Step 8 turn control screw "B" in Figure 1 clockwise (↻) to stop. Screw must be in "OUT" position for Natural gas.

See "Instruction Label" for orifice sizes.

Maximum Supply Pressure:

14" W.C. For Nat. Gas.

14" W.C. for Propane (L.P.) Gas

Minimum Supply Pressure

5" W.C. for Nat. Gas.

11" W.C. For Propane (L.P.) Gas

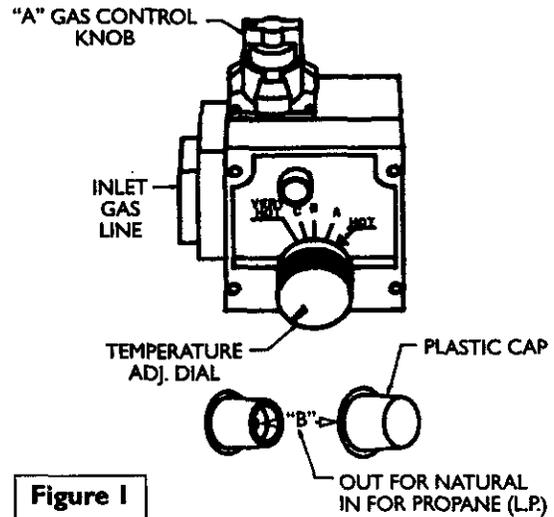


Figure 1

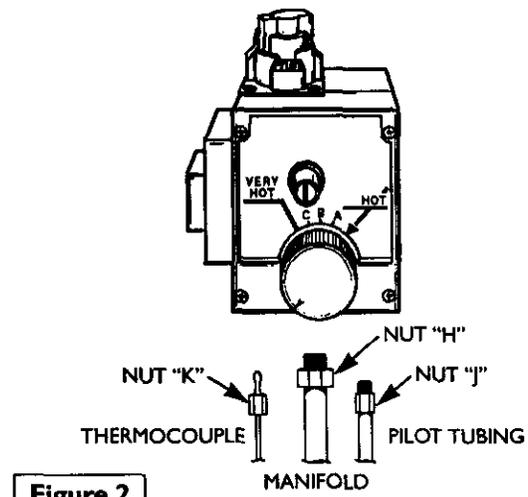


Figure 2

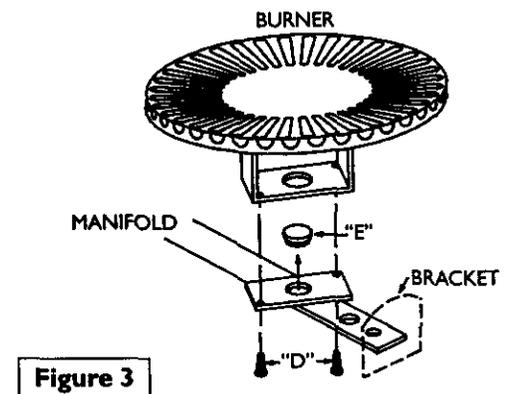


Figure 3

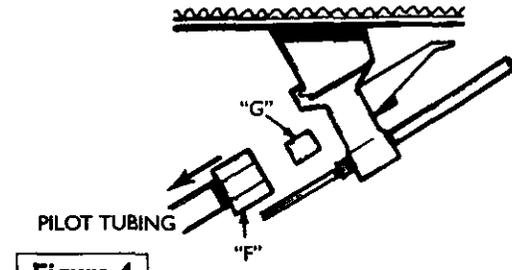


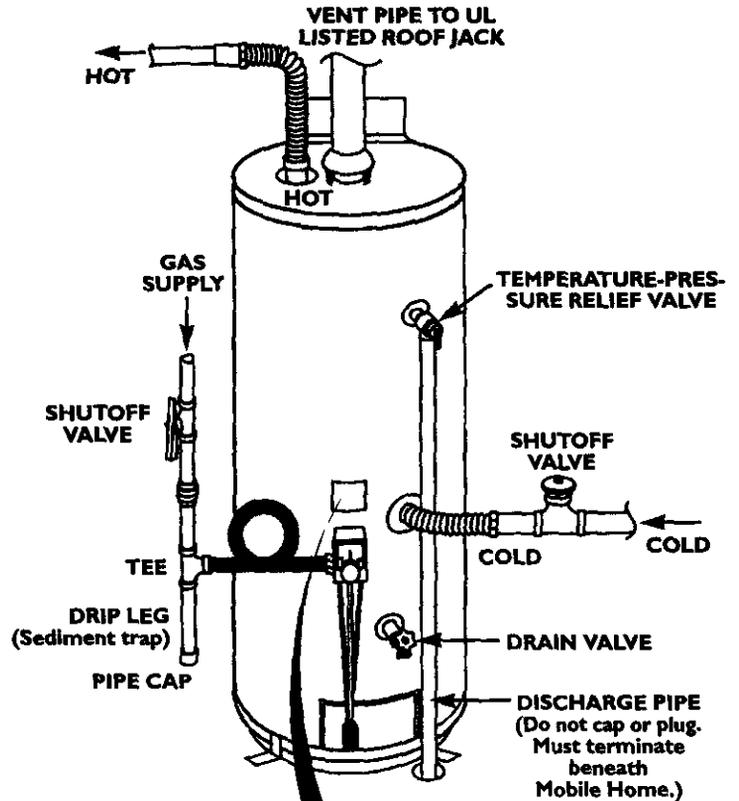
Figure 4

Installation Instructions (cont'd)

Installation Checklist

BEFORE LIGHTING THE PILOT:

- Check the gas lines for leaks.
 - a. Use a soapy water solution. DO NOT test for gas leaks using a match or open flame.
 - b. Brush the soapy water solution on all gas pipes, joints and fittings.
 - c. Check for bubbling soap. This means you have a leak. Turn "OFF" gas and make the necessary repairs.
 - d. Recheck for leaks.
 - e. Rinse off soapy solution and wipe dry.
- Is the new temperature-pressure relief valve properly installed and piped to an adequate drain? See "Temperature-Pressure Relief Valve" section.
- Are the cold and hot water lines connected to the water heater correctly? See "Water Piping" instructions in the "Installation Instructions" section.
- Is the water heater completely filled with water? See "Filling" instructions in the "Installation Instructions" section.
- Will a water leak damage anything? See the "Facts to Consider About the Location" section.
- Is there proper clearance between the water heater and anything that might catch fire? See the "Facts to Consider About the Location" section.
- Do you have adequate ventilation so that the water heater will operate properly? See "Combustion Air and Ventilation" in the "Facts to Consider About the Location" section.
- Is the draft hood vent piping properly secured? See "Venting" instructions in the "Installation Instructions" section.
- Is there proper clearance between the vent pipe and anything that might catch on fire? See "Venting" instructions in the "Installation Instructions" section.
- Is the vent pipe properly sloped and does the vent terminate outdoors? See "Venting" instructions in the "Installation Instructions" section.
- Do you need to call your gas company to check the gas pipe and its hookup?



"AUTOMATIC STORAGE WATER HEATER"			
MODEL NUMBER		CAPACITY	
		U.S. GAL.	
WATER HEATER			
EQUIPPED FOR	INPUT	RECOVERY	SERIAL NUMBER
GAS	BTU/HR.	GAL./HR.	
MAXIMUM HYDROSTATIC WORKING PRESSURE	MAX. INLET	GAS PRESSURE IN W.C.	WATERFOLD
150		INLET PRESSURE	
P.S.I.	W.C.	W.C.	W.C.

MODEL RATING PLATE

Operating Instructions

Lighting

▲ WARNING

BEFORE LIGHTING [PROPANE (L.P.) GAS WATER HEATERS]: Propane (L.P.) gas is heavier than air. Should there be a leak in the system, the gas will settle near the ground. Basements, crawl spaces, skirted areas under mobile homes (even when ventilated), closets and areas below ground level will serve as pockets for the accumulation of this gas. Before attempting to light or relight the water heater's pilot or turning on a nearby electrical light switch, be absolutely sure there is no accumulated gas in the area. Search for odor of gas by sniffing at ground level in the vicinity of the appliance. If odor is detected, follow steps indicated at "For Your Safety" on the cover page of this manual then leave the premises.

Lighting and operating instructions are located on front of the water heater, above or to one side of the gas control valve.

▲ WARNING

AN ODORANT IS ADDED TO THE GAS USED BY THIS WATER HEATER.

**FOR YOUR SAFETY
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.

▲ WARNING

DO NOT force the gas control knob. Use only your hand to push it down to light the pilot, or to turn it to "ON", "OFF" or "PILOT". Never use a tool such as a lever, wrench or pliers. Do not hit or damage the knob. A damaged knob may result in an explosion and serious injury. If you have problem turning the knob, call the gas supplier immediately.

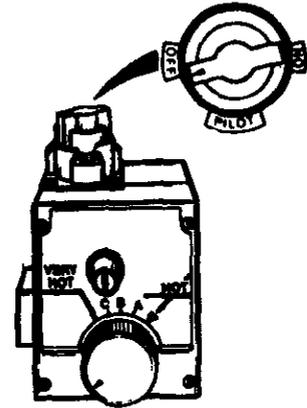


Figure 5

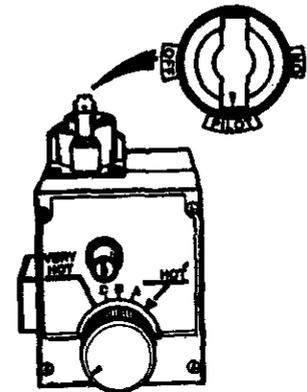


Figure 6

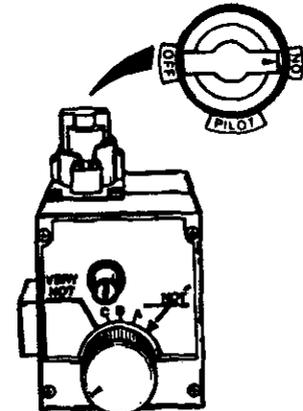


Figure 7

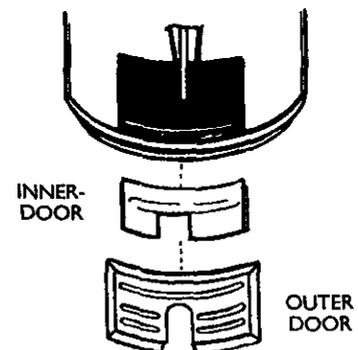


Figure 8

Operating Instructions (cont'd)

Lighting label on the water heater as it appears above the thermostat

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 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.
- C. 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. Remove outer door.
3. Set the thermostat to lowest setting by turning the water temperature dial clockwise, (↻) to its lowest temperature setting (with arrow on dial) as shown. **DO NOT FORCE.**

4. Turn gas control knob clockwise (↻) to "OFF" position. Knob cannot be turned from "PILOT" to "OFF" unless knob is depressed slightly. **DO NOT FORCE.** (Figure 5, page 19)
5. Wait five (5) minutes to clear out any gas. If you then smell gas, **STOP!** Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.
6. Remove (or open) inner door located below the gas control unit. (Figure 8, page 19)
7. Find pilot-follow metal tube from gas control. The pilot is located on the right hand side of the burner.


PILOT BURNER THERMOCOUPLE
8. If you don't smell gas, turn knob on gas control counter clockwise (↺) to "PILOT" position. (Figure 6, page 19)
9. Push in control knob all the way and hold down. Immediately light the pilot with a match. Continue to hold control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 3 through 8.
 - If 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, depress and turn the gas control knob clockwise (↻) to "OFF" and call your service technician or gas supplier. (Figure 5, page 19)
10. Replace (or close) inner door. Replace outer door if door does not cover gas control on/off knob or temperature adjustment knob. (Figure 8, page 19)
11. At arms length away, turn gas control knob counter-clockwise (↺) to the full "ON" position. **WARNING: Do not use gas control knob to regulate gas flow.** (Figure 7, page 19)
12. At arms length away, set the thermostat to desired setting. The mark (▼) HOT indicative of approximate 120°F is preferred starting point. Some local laws may require a lower starting point. If hotter water is desired, see instruction manual and "warning" below.
13. Replace the outer door if not replaced in step 10.

WARNING

Hotter water increases the risk of scald injury. Before changing temperature setting see instruction manual.

TO TURN OFF GAS TO APPLIANCE

1. Set the thermostat to lowest setting by turning the water temperature dial clockwise (↻) to its lowest temperature setting (with arrow on dial) as shown. **DO NOT FORCE.**

2. Turn gas control knob clockwise (↻) to "OFF" position. Knob cannot be turned from "PILOT" to "OFF" unless knob is depressed slightly. **DO NOT FORCE.** (Figure 5)
3. Replace outer door (if removed).

Operating Instructions (cont'd)

Temperature Regulation

Due to the nature of the typical gas water heater, the water temperature in certain situations may vary up to 30°F higher or lower at the point of use such as, bathtubs, showers, sink, etc.

This means that when the temperature adjustment dial is set at the mark approximating 120° F, the actual water temperature at any hot water tap could be as high as 150°F or as low as 90°F.

Any water heater's intended purpose is to heat water. Hot water is needed for cleaning (bodies, dishes, clothing). Hot water will present a scald hazard. Depending on the time element, and the people involved (normal adults, children, toddlers, elderly, infirm, etc.) scalding may occur at different temperatures.

▲ WARNING

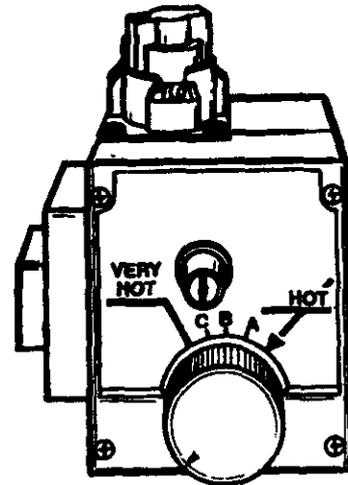
HOTTER WATER CAN SCALD: Water heaters are intended to produce hot water. Water heated to a temperature which will satisfy clothes washing, dish washing, and other sanitizing needs can scald and permanently injure you upon contact. Some people are more likely to be permanently injured by hot water than others. These include the elderly, children, the infirm, or physically/mentally handicapped. If anyone using hot water in your home fits into one of these groups or if there is a local code or state law requiring a certain temperature water at the hot water tap, then you must take special precautions. In addition to using the lowest possible temperature setting that satisfies your hot water needs, a means such as a mixing valve, should be used at the hot water taps used by these people or at the water heater. Mixing valves are available at plumbing supply or hardware stores. Follow manufacturers instructions for installation of the valves. Before changing the factory setting on the thermostat, read the "Temperature Regulation" section in this manual.

▲ WARNING

Never allow small children to use a hot water tap, or to draw their own bath water. Never leave a child or handicapped person unattended in a bathtub or shower.

The thermostat of this water heater has been factory set at its lowest position, to reduce the risk of scald injury. It is adjustable and must be reset to the desired temperature setting. The mark (▼) HOT indicative of approximately 120°F is the preferred starting point. Some states have a requirement for a lower setting. If you need hotter water, follow directions for temperature adjustment, but beware of the warnings in this section.

Turn the water temperature dial clockwise (↻) to decrease the temperature, or counterclockwise (↺) to increase the temperature.



▼ HOT—Is a thermostat setting of approximately 120°F, which will supply hot water at the most economical temperatures. The temperature adjustment knob can be turned lower than "HOT" if desired.

A—Is a thermostat setting of approximately 130°F.

B—Is a thermostat setting of approximately 140°F. This is the lowest setting for supply of hot water to dishwashers.

C—Is a thermostat setting of approximately 150°F.

VERY HOT—Is a thermostat setting of 160°F. It is recommended that the dial be set lower whenever possible.

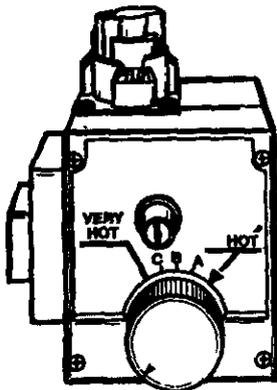
▲ WARNING

Should overheating occur or the gas supply fail to shut off, turn "OFF" the manual gas control valve to the appliance.

Service and Adjustment

Tank (Sediment) Cleaning

Sediment build-up on the tank bottom may create varying amounts of noise, and if left in the tank will cause premature tank failure. In some water areas, you may not be able to drain all sediment deposits by simply draining the tank. In these cases Mag Erad (part no. 23600) can be used to help remove the sediment deposits. This may be ordered from the Sears Service Center. For ordering, refer to the "Parts Order List" section.



▲ WARNING

Chemical vapor corrosion of the flue and vent system may occur if air for combustion contains certain chemical vapors. Spray can propellants, cleaning solvents, refrigerator and air conditioner refrigerants, swimming pool chemicals, calcium and sodium chloride, waxes, bleach, and process chemicals are typical compounds which are potentially corrosive.

▲ WARNING

Obstructed or deteriorated vent systems may present a serious health risk or asphyxiation.

▲ WARNING

Be sure the vent piping is properly connected to prevent escape of dangerous flue gasses which could cause deadly asphyxiation.

▲ WARNING

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

Burner Inspection

▲ WARNING

Do not use this appliance if any part of it has been under water. Immediately call a Sears Service Technician to inspect the appliance and to replace the gas control or any part of the burner system which has been under water.

At least once a year a visual inspection should be made of the main burner and pilot burner. The drawing is for your reference.

You should check for sooting which is not normal and will impair proper combustion.



▲ WARNING

Soot build-up indicates a problem that requires correction before further use. Turn "OFF" gas to water heater and leave "OFF" until repairs are made, because failure to correct the cause of the sooting can result in a fire or explosion causing DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.

Burner Cleaning

In the event your burner needs cleaning, use the following instructions:

If inspection of the burner shows that cleaning is required, turn the gas control knob clockwise (↻) to the "OFF" position, depressing slightly.

NOTE: The knob cannot be turned from "PILOT" to "OFF" unless knob is depressed slightly. DO NOT FORCE.

Loose deposits on or around the burner can be removed by carefully using the hose of a vacuum cleaner inserted through the access door of the water heater. If the burner needs to be removed for additional cleaning, call the Sears Service Center to remove and clean the burner and correct the problem that required the burner to be cleaned.

Draining

The water heater should be drained if being shut down during freezing temperatures. Also periodic draining and cleaning of sediment from the tank may be necessary.

- Turn the gas control knob to the "OFF" position.
- CLOSE the cold water inlet valve to the water heater.
- OPEN a nearby hot water faucet and leave open to allow for draining.
- Connect a hose to the drain valve and terminate to an adequate drain.
- OPEN the water heater drain valve to allow for tank draining.

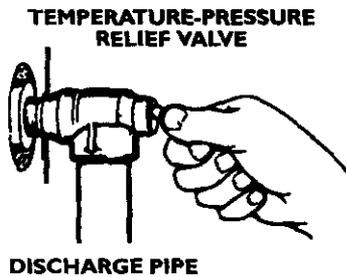
NOTE: If the water heater is going to be shut down and drained for an extended period, the drain valve should be left open with hose connected allowing water to terminate to an adequate drain.

- Close the drain valve.
- Follow instructions in the "Filling The Water Heater" section.
- Follow the lighting instructions in the "Lighting" section to restart the water heater.

Service and Adjustment (cont'd)

Temperature-Pressure Relief Valve Operation

The temperature-pressure relief valve must be manually operated at least once a year.



Failure to install and maintain a new properly listed temperature-pressure relief valve will release the manufacturer from any claim which might result from excessive temperature or pressure.

▲ WARNING

If the temperature-pressure relief valve on the appliance weeps or discharges periodically, this may be due to thermal expansion. Your water heater may have a check valve installed in the water line or a water meter with a check valve. Consult the Sears Service Center for further information. Do not plug the temperature-pressure relief valve.

▲ WARNING

When checking the temperature-pressure relief valve operation, make sure that (1) no one is in front of or around the outlet of the temperature-pressure relief valve discharge line, and (2) that the water manually discharged will not cause any property damage because the water may be extremely hot.

If after manually operating the valve, it fails to completely reset and continues to release water, immediately close the cold water inlet to the water heater, follow the draining instructions, and replace the temperature-pressure relief valve with a new one.

Drain Valve Washer Replacement

NOTE: For replacement, use a $\frac{1}{32}$ " x $\frac{1}{64}$ " x $\frac{1}{8}$ " thick washer available at your nearest hardware store. For ordering replacement washers, refer to the "Parts Order List" section.

- Turn "OFF" gas supply to water heater.
- Follow "Draining" instructions.
- Turning counter clockwise, remove the hex cap below the screw handle.
- Remove the washer and put the new one in place.
- Screw the handle and cap assembly back into the drain valve and retighten using a wrench. **DO NOT OVER TIGHTEN.**
- Follow instructions in the "Filling The Water Heater" section.
- Check for leaks.
- Follow the lighting instructions in the "Lighting" section to restart the water heater.



Housekeeping

Vacuum around base of water heater for dust, dirt, and lint on a regular basis.

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

To insure sufficient ventilation and combustion air supply, proper clearances from the water heater must be maintained at all times.

Service

Before calling for repair service, read the Start Up Conditions and Operational Conditions found in the Troubleshooting Guide of this manual.

If a condition persists or you are uncertain about the operation of the water heater, let a qualified person check it out.

Contact SEARS Repair Services at 1-800-4-REPAIR (1-800-473-7247).

Troubleshooting Guide

Start Up Conditions

CONDENSATION

Whenever the water heater is filled with cold water, a certain amount of condensation will form while the burner is on. A water heater may appear to be leaking when in fact the water is condensation. This usually happens when:

- When a new water heater is filled with cold water for the first time.
- When gas burns and water vapor is produced in water heaters, particularly high efficiency models where flue temperatures are lower.
- When you use large amounts of hot water in a short time and the refill water is very cold.

Moisture from the products of combustion condense on the cooler tank surfaces and form drops of water which may fall onto the burner or other hot surfaces to produce a "sizzling" or "frying" noise.

Excessive condensation can cause pilot outage due to water running down the flue tube onto the main burner and putting out the pilot.

Because of the suddenness and amount of water, condensation water may be diagnosed as a "tank leak". After the water in the tank warms up (about 1-2 hours), the condition should disappear.

Do not assume the water heater is leaking until there has been enough time for the water in the tank to warm up.

An undersized water heater will cause more condensation. The water heater must be sized properly to meet the family's demands for hot water including dishwashers, washing machines and shower heads.

Excessive condensation may be noticed during the winter and early spring months when incoming water temperatures are at their lowest.

Good venting is essential for a gas fired water heater to operate properly as well as to carry-away products of combustion and water vapor.

SMOKE/ODOR

It is not uncommon to experience a small amount of smoke and odor during the initial start-up. This is due to burning off of oil from metal parts, and will disappear in a short while.

THERMAL EXPANSION

Water supply systems may, because of high line pressure, frequent cut-offs, the effects of water hammer and others, have installed devices such as pressure reducing valves, check valves, back flow preventers, etc. to control these types of problems. When these devices are not equipped with an internal by-pass, and no other measures are taken, the devices cause the water system to be closed. As water is heated, it expands (thermal expansion) and closed systems do not allow for the expansion of heated water.

The water within the water heater tank expands as it is heated and increases the pressure of the water system. If the relieving point of the water heater's temperature-pressure relief valve is reached, the valve will relieve the excess pressure. **The temperature-pressure relief valve is not intended for the constant relief of thermal expansion.** This is an unacceptable condition and must be corrected.

It is recommended that any devices installed which could create a closed system have a by-pass and/or the system have an expansion tank to relieve the pressure built by thermal expansion in the water system. Expansion tanks are available for ordering through the Sears Service Center. Contact the local plumbing inspector, water supplier, and/or the Sears Service Center for assistance in controlling these situations.

STRANGE SOUNDS

Possible noises due to expansion and contraction of some metal parts during periods of heat-up and cool-down do not represent harmful or dangerous conditions.

Condensation causes sizzling and popping with the burner area during heating and cooling periods and should be considered normal. See "Condensation" section.

Operational Conditions

SMELLY WATER

In each glasslined water heater there is installed at least one anode rod (see parts section) for corrosion protection of the tank. Certain water conditions will cause a reaction between this rod and the water. The most common complaint associated with the anode rod is one of a "rotten egg smell". This odor is derived from hydrogen sulfide gas dissolved in the water. The smell is the result of four factors which must all be present for the odor to develop:

- a. a concentration of sulfate in the supply water.
- b. little or no dissolved oxygen in the water.
- c. a sulfate reducing bacteria within the water heater. (This harmless bacteria is non-toxic to humans.)
- d. an excess of active hydrogen in the tank. This is caused by the corrosion protective action of the anode.

Smelly water may be eliminated or reduced in some water heater models by replacing the anode(s) with one of less active material, and then chlorinating the water heater tank and all hot water lines. Contact Sears Service for further information concerning an Anode Replacement Kit #9001453 and this Chlorination Treatment.

If the smelly water persists after the anode replacement and chlorination treatment, we can only suggest that continuous chlorination and filtering conditioning equipment be considered to eliminate the water problem.

Do not remove the anode leaving the tank unprotected. By doing so, all warranty on the water heater tank is voided.

Troubleshooting Guide (cont'd)

"AIR" IN HOT WATER FAUCETS

▲ WARNING

HYDROGEN GAS: Hydrogen gas can be produced in a hot water system that has not been used for a long period of time (generally two weeks or more). Hydrogen gas is extremely flammable and explosive. To prevent the possibility of injury under these conditions, we recommend the hot water faucet be opened for several minutes at the kitchen sink before any electrical appliances which are connected to the hot water system are used (such as a dishwasher or washing machine). If hydrogen gas is present, there will probably be an unusual sound similar to air escaping through the pipe as the hot water faucet is opened. There must be no smoking or open flame near the faucet at the time it is open.

WATER IS TOO HOT

1. The temperature adjustment dial may be set too high. See the "Temperature Adjustment" section.

NOTE: A period of time is necessary after an adjustment has been made for the water temperature to reach the new temperature setting.

2. If lower temperature settings will not lower the water temperature, call the Sears Service Center.

HIGH TEMPERATURE SHUT OFF SYSTEM

This water heater is equipped with an automatic gas shut off system. The high temperature shut off is built into the gas control valve. This system shuts off the gas supply to the water heater burners when high water temperatures are present. It is non-resettable. If the high temperature shut off activates, the gas control valve must be replaced. If this were to occur, turn "OFF" the entire gas supply to the water heater. Contact the Sears Service Center.

▲ WARNING

Should overheating occur or the gas supply fail to shut off, turn "OFF" the manual gas control valve to the appliance.

▲ WARNING

HOTTER WATER CAN SCALD: Water heaters are intended to produce hot water. Water heated to a temperature which will satisfy clothes washing, dish washing, and other sanitizing needs can scald and permanently injure you upon contact. Some people are more likely to be permanently injured by hot water than others. These include the elderly, children, the infirm, or physically/mentally handicapped. If anyone using hot water in your home fits into one of these groups or if there is a local code or state law requiring a certain temperature water at the hot water tap, then you must take special precautions. In addition to using the lowest possible temperature setting that satisfies your hot water needs, a means such as a mixing valve, should be used at the hot water taps used by these people or at the water heater. Mixing valves are available at plumbing supply or hardware stores. Follow manufacturers instructions for installation of the valves. Before changing the factory setting on the thermostat, read the "Temperature Regulation" section in this manual.

NOT ENOUGH OR NO HOT WATER

- Check the manual gas shut off valve to be sure it is open.
- Check the pilot flame. It may have gone out. All models have an opening behind the outer door for viewing the pilot.
- If the pilot is not lit, follow the "Lighting" instructions in this manual or located above the gas control valve on the water heater to relight the pilot. If the water was extremely hot and is now cold, the high limit safety temperature shut off may have put out the burner and pilot. If the high temperature shut off activates, the gas control valve must be replaced. Contact the Sears Service Center.
- The gas control knob must be turned to the "ON" position.
- The temperature adjustment dial may be set too low. See the "Temperature Regulation" section.
- The gas company can check the gas input to see if it is correct. An underfired water heater will not heat water as quickly.
- Look for leaking or open hot water faucets. Make sure all are closed.
- The cold water inlet temperature may be colder during the winter months. It will take longer to heat the water and seem like less hot water.
- If you cannot find what is wrong, call the Sears Service Center.

▲ WARNING

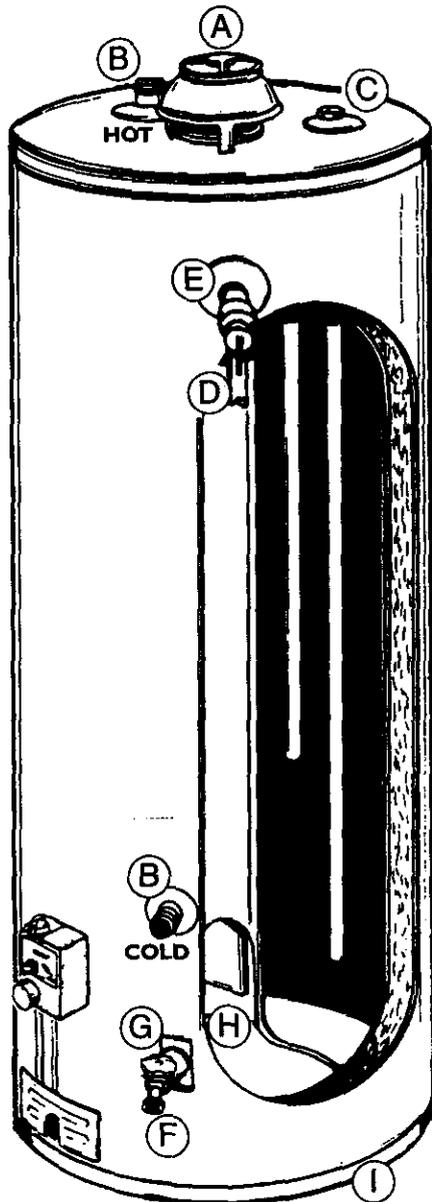
Due to the nature of the typical gas water heater, the water temperature in certain situations may be hotter than the thermostat setting. Short, frequent draws of hot water - especially with very cold incoming water - can shock the thermostat into brief operation resulting in hotter and hotter layers of water closer to the top of the tank. Changes in hot water usage patterns or raising the temperature differential between the cut-on of the thermostat and the cold water temperature will usually eliminate the problem.

Troubleshooting Guide (cont'd)

Leakage Checkpoints

Use this guide to check a "Leaking" water heater. Many suspected "Leakers" are not leaking tanks. Often the source of the water can be found and corrected.

If you are not thoroughly familiar with your local gas codes your water heater, and safety practices, contact the Sears Service Center to check the water heater.



▲ CAUTION

Read this manual first. Then before checking the water heater make sure the gas supply has been turned "OFF", and never turn the gas "ON" before the tank is completely full of water.

▲ CAUTION

Never use this water heater unless it is completely filled with water. To prevent damage to the tank, the tank must be filled with water. Water must flow from the hot water faucet before turning "ON" gas to the water heater.

- A** Water at the draft hood is water vapor which has condensed out of the combustion products. This is caused by a problem in the vent. Contact the Sears Service Center.
- B** *Condensation may be seen on pipes in humid weather or pipe connections may be leaking.
- C** *The primary anode rod fitting may be leaking.
- D** Small amounts of water from temperature-pressure relief valve may be due to thermal expansion or high water pressure in your area.
- E** *The temperature-pressure relief valve may be leaking at the tank fitting.
- F** Water from a drain valve may be due to the valve opened slightly.
- G** *The drain valve may be leaking at the tank fitting.
- H** Combustion products contain water vapor which can condense on the cooler surfaces of the tank. Droplets form and drip into the fire or run on the floor. This is common at the time of startup after installation and when incoming water is cold.
- I** Water in the water heater bottom or on the floor may be from condensation, loose connections, or the relief valve. DO NOT replace the water heater until a full inspection of all possible water sources is made and necessary corrective steps taken. Leakage from other appliances, water lines, or ground seepage should also be checked.

NOTE: To check where threaded portion enters tank, insert cotton swab between jacket opening and fitting. If cotton is wet, follow "Draining" instructions in the "Service and Adjustment" section and then remove fitting. Put pipe dope or teflon tape on the threads and replace. Then follow "Filling the Water Heater" instructions in the "Installation Instructions" section.

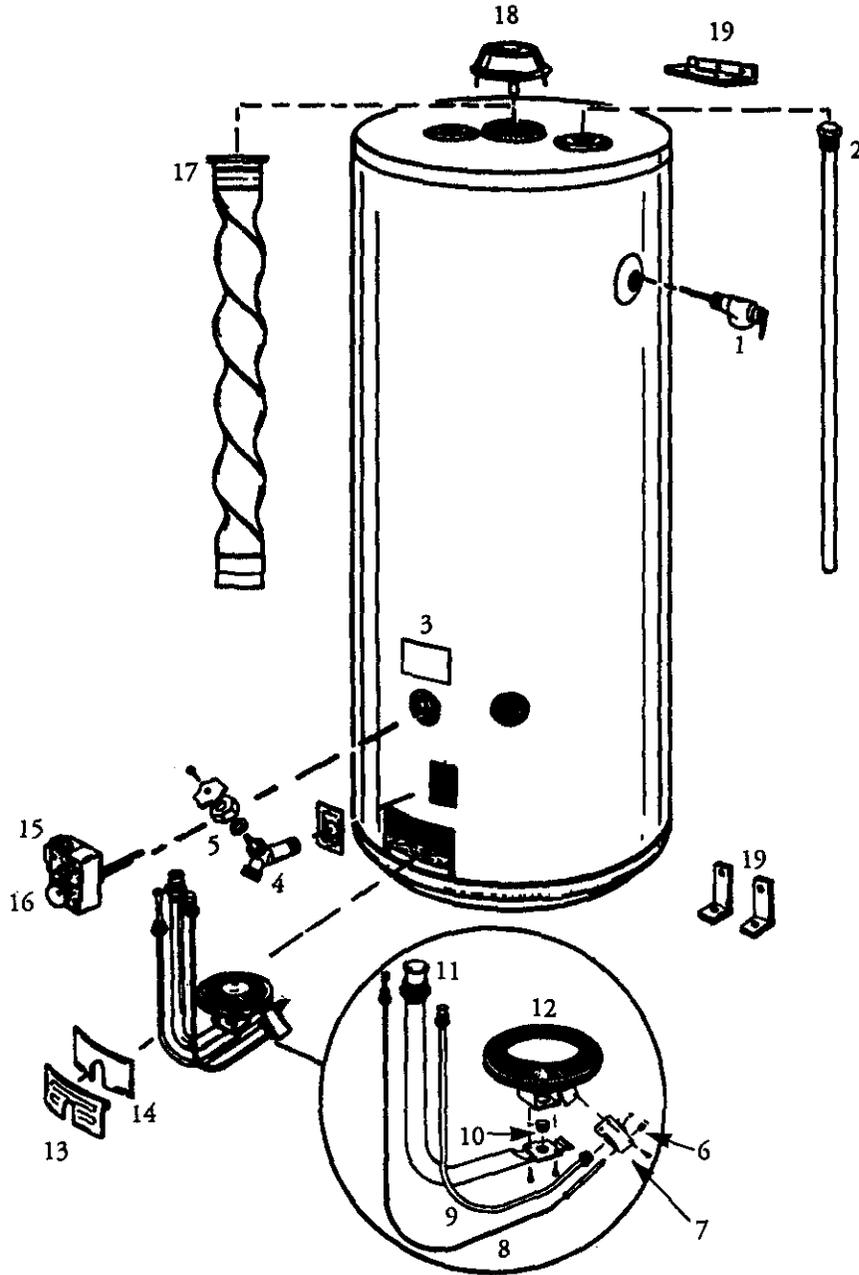
Notes

Parts Order List

CONOMIZER™ 5 MOBILE HOME GAS WATER HEATERS

MODEL NUMBERS:

- 3.333830 30 Gal.
- 3.333930 40 Gal.



Parts Order List (cont'd)

ECONOMIZER™ 5 MOBILE HOME GAS WATER HEATERS

MODEL NUMBERS:

153.333830 30 Gal.
153.333930 40 Gal.

KEY NO.	PART DESCRIPTION	Model Numbers	
		153.333830	153.333930
		PART NUMBERS	
1	Temperature-Pressure Relief Valve*	9000071 42-33085	9000071 42-33085
2	Primary Anode Rod	9000279	9000279
3	Model Rating Plate†	0270118	0270118
4	Drain Valve	9000058	9000058
5	Drain Valve Washer (1/2" x 3/4" x 1/8" thick)**	9001584	9001584
6	Thermocouple Clip	F145-0085	F145-0085
7	Pilot (Natural)	9000284	9000284
7	Pilot [Propane (L.P.)]	9000800	9000800
8	Thermocouple*	42-9231	42-9231
9	Pilot Tubing w/Fittings	9000278	9000278
10	Burner Orifice (Natural)	0230211	0230211
10	Burner Orifice [Propane (L.P.)]	0230140	0230140
11	Manifold	9002613	9002615
12	Burner	9000390	9000390
13	Outer Door	9000351	9000351
14	Inner Door	9000281	9000281
15	Gas Control Valve	F145-0846	F145-0846
16	Temperature Adjustment Knob	F145-0697	F145-0697
17	Flue Baffle	9000391	9000537
18	Draft Hood	9000272	9000272
19	Mounting Brackets	9001261	9001261
#	Manual	0291214	
#	Mag-Erad	23600	

Not Illustrated

* These parts are also available at most Sears retail stores.

** Also available at most hardware stores.

† Replaced only upon return of damaged plate.

Now that you have purchased your Gas Water Heater, should a need ever exist for repair parts or service, simply contact any SEARS Service Center or call 1-800-4-REPAIR (1-800-473-7247). Be sure to provide pertinent facts when you call or visit.

All parts listed may be ordered from any SEARS Service Center, most SEARS stores and by calling 1-800-366-PART (1-800-366-7247). If the parts you need are not stocked locally, your order will be electronically transmitted to a SEARS Repair Parts Distribution Center for handling.

THIS IS A REPAIR PARTS LIST, NOT A PACKING LIST.

The model number of your Gas Water Heater will be found on the model rating plate located near the gas control valve.

When ordering repair parts, always give the following information:

Model Number
Part Number
Part Description
Name of Item

Notes

Notes

Warranty

About Your Warranty

THE PRICE OF YOUR WATER HEATER DOES NOT INCLUDE A FREE CHECKUP SERVICE CALL. On Water Heater Installations Arranged By Sears, Sears warrants the installation. ON INSTALLATIONS NOT MADE BY SEARS AUTHORIZED CONTRACTORS:

1. Your Sears warranty applies to the product only.
2. Sears does not warrant the installation.
3. A charge will be made on service calls due to poor or incomplete installation. These include:

- a. Adjusting thermostat.
- b. Lighting pilot.
- c. Leaks in pipes or fittings.
- d. Improper venting
- e. Condensation

This manual is in non-technical language. It may help you avoid the cost of a needless service call. Many service calls really aren't needed.

Such as when:

1. The gas is turned "OFF".
2. The pilot is out.
3. A gas or water leak is due to loose pipe or connections.

FULL ONE YEAR WARRANTY ON WATER HEATER

For one year from the date of purchase, when your Sears Kenmore water heater is installed and operated in accordance with the instructions in this manual Sears will:

1. Repair defects in material or workmanship in this water heater, free of charge.
2. Furnish and install a new current model water heater of equal capacity and quality, free of charge, if a leak occurs in the tank.

LIMITED WARRANTY ON TANKS THAT LEAK

After one year and through 5 years from the date of purchase, if a leak occurs in the tank, Sears will furnish a new current model water heater of equal capacity and quality. You will be charged for installation.

If the water heater is subjected to commercial, institutional, industrial or other non-residential use, the above warranty coverage for tanks that leak is effective for 2 years from the date of purchase.

To obtain warranty service, SIMPLY CONTACT THE NEAREST SEARS STORE OR SEARS SERVICE CENTER IN THE UNITED STATES. "This warranty applies only while this product is in use in the United States."

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

"SEARS, ROEBUCK AND CO., Dept. 817 WA, Hoffman Estates, IL 60179"

Sears Installation Warranty

In addition to any warranty extended to you on the Sears merchandise involved, which warranty becomes effective the date the merchandise is installed should the workmanship of any Sears arranged installation prove faulty within one year, Sears will, upon notice from you, cause such faults to be corrected at no additional cost to you. If you want this heater professionally installed by Sears contact your Sears Salesperson. They will arrange for prompt, quality installation.

Parts Ordering Information

The model number of your gas water heater is found on the model rating plate on the front of the water heater.

Sears Installation Policy

All installation labor arranged by Sears shall be performed in a neat, workmanlike manner in accordance with generally accepted trade practices. Further, all installations shall comply with all local laws, codes regulations and ordinances. The customer shall also be protected, during installation, by insurance relating to property damage, Worker's Compensation and Public Liability.

If you want this water heater professionally installed by Sears contact your Salesperson. They will arrange for prompt, quality installation by Sears authorized contractors.

For the repair or replacement parts you need delivered directly to your home
Call 7 am - 7 pm, 7 days a week
1-800-366-PART
(1-800-366-7278)



For in-home major brand repair service
Call 24 hours a day, 7 days a week
1-800-4-REPAIR
(1-800-473-7247)

