



Series Twelve GAS WATER HEATER USER'S GUIDE

FOR POTABLE WATER HEATING ONLY

NOT SUITABLE FOR SPACE HEATING

NOT FOR USE IN
MANUFACTURED (MOBILE) HOMES



C3 Technology™ Gas Water Heaters meet the new ANSI Z21.10.1 standard that deals with the accidental or unintended ignition of flammable vapors, such as those emitted by gasoline.



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

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS:**
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

Model Numbers

HRN11240X
HRP11240X
HRN11250Q
HRP11250Q
HRN11250X
HRP11250X

HRN31240X
HRP31240X
HRN31250Q
HRP31250Q
HRN31250X
HRP31250X

For Your Safety

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



⚠ WARNING

Read and understand instruction manual and safety messages before installing, operating or servicing this water heater.


Failure to follow instructions and safety messages could result in death or serious injury.





Instruction manual must remain with water heater.

SAFE INSTALLATION, USE AND SERVICE

Your safety and the safety of others is extremely important in the installation, use and servicing of this water heater.

Many safety-related messages and instructions have been provided in this manual and on your own water heater to warn you and others of a potential injury hazard. Read and obey all safety messages and instructions throughout this manual. It is very important that the meaning of each safety message is understood by you and others who install, use or service this water heater.

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
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	DANGER indicates an imminently hazardous situation which, if not avoided, could result in death or injury.
	WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or injury.
	CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
	CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, could result in property damage.

All safety messages will generally tell you about the type of hazard, what can happen if you do not follow the safety message and how to avoid the risk of injury.

IMPORTANT DEFINITIONS

- **Maytag Customer Service Center:** The Maytag Customer Service Center has the ability equivalent to a licensed tradesman in the fields of plumbing, air supply, venting and gas supply, including a thorough understanding of the requirements of the National Fuel Gas Code as it relates to the installation of gas fired water heaters. The Service Center also has a thorough understanding of this instruction manual, and is able to perform repairs strictly in accordance with the service guidelines provided by the manufacturer.
- **Gas Supplier:** The natural gas or propane utility or service who supplies gas for utilization by the gas burning appliances within this application. The gas supplier typically has responsibility for the inspection and code approval of gas piping up to and including the natural gas meter or propane storage tank of a building. Many gas suppliers also offer service and inspection of appliances within the building.

SAFETY PRECAUTIONS



⚠ WARNING

Read and understand instruction manual and safety messages before installing, operating or servicing this water heater.

Failure to follow instructions and safety messages could result in death or serious injury.

Instruction manual must remain with water heater.

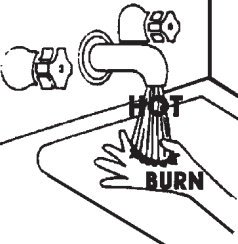


⚠ WARNING

Fire Hazard

For continued protection against risk of fire:

- Do not install water heater on carpeted floor.
- Do not operate water heater if flood damaged.



⚠ DANGER

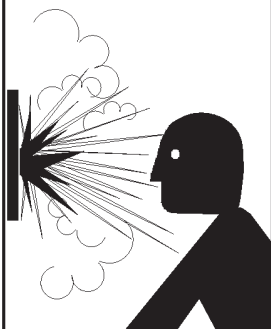
Water temperature over 125°F (52°C) can cause severe burns instantly resulting in severe injury or death.

Children, the elderly, and the physically or mentally disabled are at highest risk for scald injury.

Feel water before bathing or showering.

Temperature limiting valves are available.

Read instruction manual for safe temperature setting.



⚠ WARNING

Explosion Hazard



- Overheated water can cause water tank explosion.
- Properly sized temperature and pressure relief valve must be installed in opening provided.

⚠ WARNING

Fire or Explosion Hazard


- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Avoid all ignition sources if you smell LP gas.
- Do not expose water heater control to excessive gas pressure.
- Use only gas shown on rating plate.
- Maintain required clearances to combustibles.
- Keep ignition sources away from faucets after extended period of non-use.

Read instruction manual before installing, using or servicing water heater.

⚠ WARNING

Breathing Hazard - Carbon Monoxide Gas



- Install vent system in accordance with codes.
- Do not operate water heater if flood damaged.
- High altitude orifice must be installed for operation above 3,300 feet (1,006 m) (or above 5,500 (1,676 m) feet for high altitude models).
- Do not operate if soot buildup.
- Do not obstruct water heater air intake with insulating jacket.
- Do not place chemical vapor emitting products near water heater.
- Gas and carbon monoxide detectors are available.

Breathing carbon monoxide can cause brain damage or death. Always read and understand instruction manual.

CAUTION

Improper installation and use may result in property damage.

- Do not operate water heater if flood damaged.
- Inspect and replace anode rod as needed.
- Install in location with drainage.
- Fill tank with water before operation.
- Be alert for thermal expansion.

Refer to instruction manual for installation and service.

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CUSTOMER RESPONSIBILITIES

Thank You for purchasing a Maytag water heater. Properly installed and maintained, it should give you years of trouble free service. It is strongly suggested that this new water heater be professionally installed, **contact Maytag Customer Service (1-800-788-8899) for recommended installers.**

Abbreviations Found In This Instruction Manual:

- CSA - Canadian Standards Association
- ANSI - American National Standards Institute
- NFPA - National Fire Protection Association
- ASME - American Society of Mechanical Engineers
- GAMA - Gas Appliance Manufacturers Association

This gas-fired water heater is design certified by CSA INTERNATIONAL under American National Standard/CSA Standard for Gas Water Heaters ANSI Z21.10.1 • CSA 4.1 (current edition).

- Read the "Safety Precautions" section, page 3 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 installation must conform with these instructions and the local code authority having jurisdiction. In the absence of local codes, installations shall comply with the following:

In the United States: The National Fuel Gas Code ANSI Z223.1/NFPA 54. This publication is available from the Canadian Standards Association, 8501 East Pleasant Valley Rd, Cleveland Ohio 44131, or The National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02269.

- If after reading this manual you have any questions or do not understand any portion of the instructions, **call Maytag Customer Service at 1-800-788-8899 for an authorized servicer.**

- 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, see figure 1 and 2.

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.
- Massachusetts Code requires this water heater to be installed in accordance with Massachusetts 248-CMR 2.00: State Plumbing Code and 248-CMR 5.00. In the Commonwealth of Massachusetts, this product must be installed by a licensed plumber or gasfitter.
- Complies with SCAQMD rule #1121 and districts having equivalent NOx requirements.

PRODUCT SPECIFICATIONS

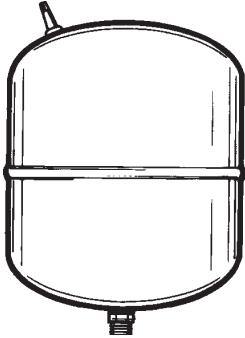
MODEL NUMBER	TANK CAPACITY IN GALS (LTRS)	TYPE OF GAS	BTU RATE	RECOVERY RATE GALS. PER HOUR @ 90°F RISE	MINIMUM VENT PIPE INCHES (mm)	DIAMETER INCHES (mm)	DIMENSIONS IN INCHES (mm) HEIGHT TOP OF DRAFTHOOD
HRN11240X	40 (151)	NATURAL	40,000	41.0	3" (76) or 4" (102)	20" (508)	63 1/2" (1,613)
*HRN31240X	40 (151)	NATURAL	40,000	41.0	3" (76) or 4" (102)	20" (508)	63 1/2" (1,613)
HRP11240X	40 (151)	PROPANE	35,500	36.0	3" (76) or 4" (102)	20" (508)	63 1/2" (1,613)
*HRP31240X	40 (151)	PROPANE	35,500	36.0	3" (76) or 4" (102)	20" (508)	63 1/2" (1,613)
HRN11250Q	50 (189)	NATURAL	65,000	67.4	4" (102)	22" (559)	65" (1,651)
HRN31250Q	50 (189)	NATURAL	65,000	67.4	4" (102)	22" (559)	65" (1,651)
HRP11250Q	50 (189)	PROPANE	55,000	57.0	4" (102)	22" (559)	65" (1,651)
HRP31250Q	50 (189)	PROPANE	55,000	57.0	4" (102)	22" (559)	65" (1,651)
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* High altitude models have a B.T.U./Recovery Rate 10% less than shown.

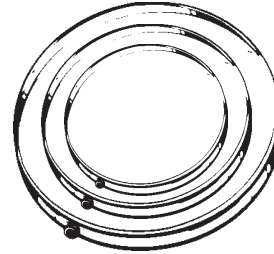
ACCESSORIES AND TOOLS NEEDED

Accessories

To simplify the installation Maytag has available the installation parts shown below. You may or may not need all of these accessories depending on your type of installation. **Call Maytag Customer Service at 1-800-788-8899 for an authorized installer.**



EXPANSION TANKS FOR THERMAL EXPANSION CONDITIONS AVAILABLE IN 2 GALLONS (7.6 LITERS), Part No. 66001013 AND 5 GALLONS (18.9 LITERS), Part No. 66001014 CAPACITY.

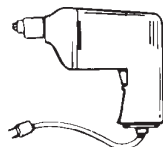


DRAIN PANS AVAILABLE IN 22" (559 mm) DIAMETER (PART NO. 66001011) FOR WATER HEATERS HAVING A DIAMETER 20" (508 mm) OR LESS, 24" (610mm) DIAMETER (PART NO. 66001105) FOR WATER HEATERS HAVING A DIAMETER 22" (559 mm) OR LESS AND 28" (711 mm) DIAMETER (PART NO. 66001012) FOR WATER HEATERS HAVING A DIAMETER 26" (660 mm) OR LESS.

Tools

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

- Pipe Wrenches (2) 14" (356 mm)
- Screwdriver
- Tin Snips
- 6' (1.82 m) Tape or Folding Ruler
- Garden Hose
- Drill
- Pipe Dope or Teflon Tape



DRILL



SLOT-HEAD SCREWDRIVER



PHILLIPS SCREWDRIVER



TIN SNIPS



ROLL OF TEFLON TAPE (USE ONLY ON WATER HEATER CONNECTIONS)



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



GARDEN HOSE



6 FOOT TAPE



PIPE WRENCH

Additional Tools Needed When Sweat Soldering

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



PROPANE TORCH



TUBING CUTTER



HACKSAW



ROLL OF EMERY CLOTH



3/4" (19 mm) WIRE BRUSH



1/2" (13 mm) WIRE BRUSH



ROLL OF LEAD-FREE SOFT SOLDER



SOLDER FLUX

INSTRUCTIONS FOR INSTALLATION

Removing the Old Water Heater

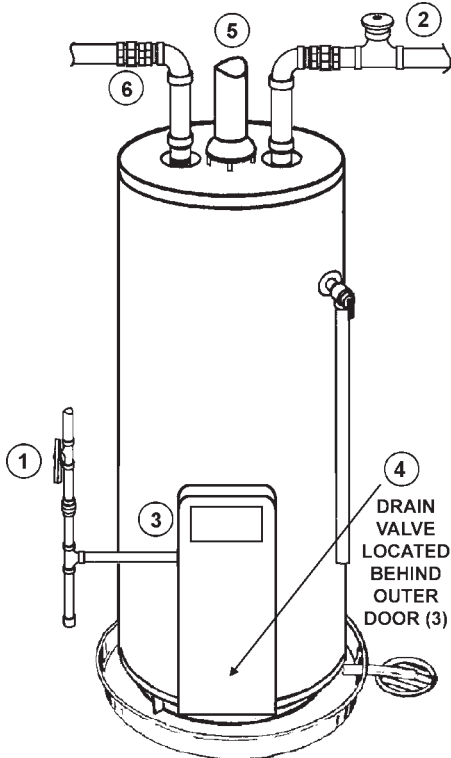


FIGURE 1.

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

If the main gas line Shut-off valve 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 completed, see Figures 1 and 2.

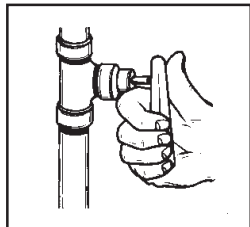


FIGURE 2.

2. Turn "OFF" the water supply to the water heater at the water shut off valve or water meter. Some installations require that the water be turned off to the entire house, see Figures 1 and 3.

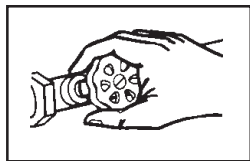


FIGURE 3.

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.

⚠ DANGER

**HOT
BURN**

- Burn hazard
- Hot water discharge.
- Keep hands clear of drain valve discharge.

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 (behind outer door). Open a nearby hot water faucet which will relieve pressure in the water heater and speed draining. 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, see Figures 1 and 4.

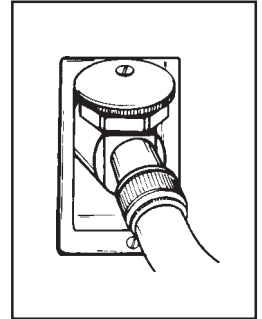


FIGURE 4.

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. If you have copper piping to the water heater, the two copper water pipes can be cut with a hacksaw approximately four inches away from where they connect to the water heater. This will avoid cutting off 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, see Figure 5.

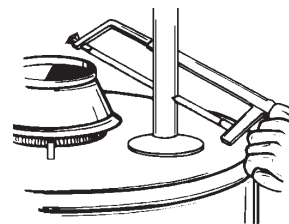


FIGURE 5.

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. 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, see Figure 6.

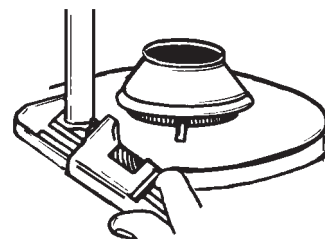


FIGURE 6.

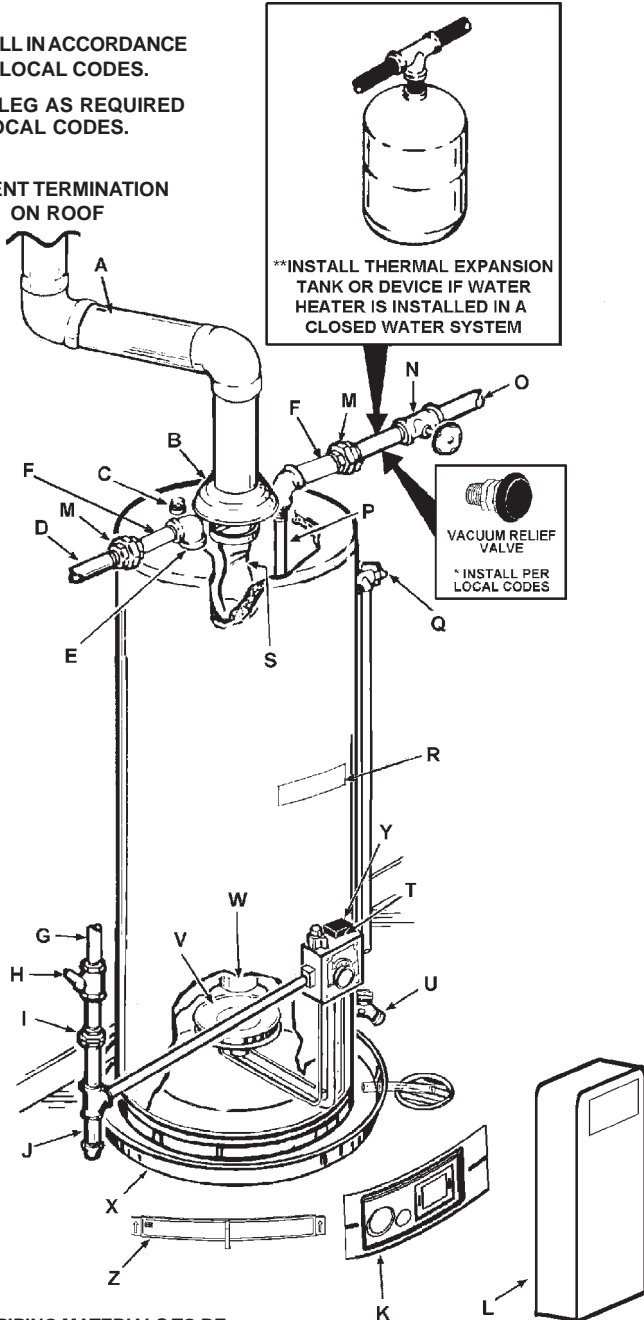
TYPICAL INSTALLATION

GET TO KNOW YOUR WATER HEATER - GAS MODELS

- | | | |
|-----------------------------|-------------------------------------|-------------------------|
| A Vent Pipe | J Drip Leg (Sediment Trap) | S Flue Baffle |
| B Draft Hood | K Inner Door | T Thermostat |
| C Anode | L Outer door | U Drain Valve |
| D Hot Water Outlet | M Union | V Pilot and Main Burner |
| E Outlet | N Inlet Water Shut-off Valve | W Flue |
| F Standard Pipe Fittings | O Cold Water Inlet | X Drain Pan |
| G Gas Supply | P Inlet Dip Tube | Y Piezo Igniter |
| H Manual Gas Shut-off Valve | Q Temperature-Pressure Relief Valve | Z Air Intake Screen |
| I Ground Joint Union | R Rating Plate | |

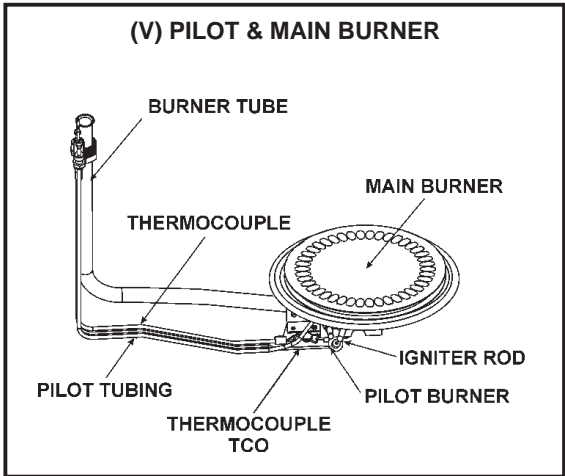
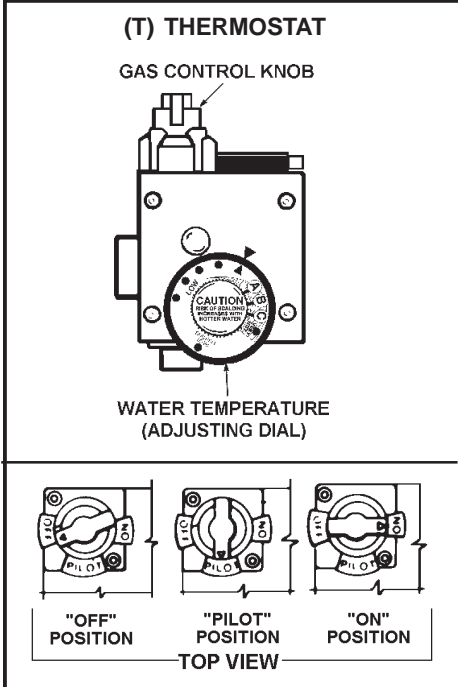
* INSTALL IN ACCORDANCE WITH LOCAL CODES.
 * DRIP LEG AS REQUIRED BY LOCAL CODES.

TO VENT TERMINATION ON ROOF



**INSTALL THERMAL EXPANSION TANK OR DEVICE IF WATER HEATER IS INSTALLED IN A CLOSED WATER SYSTEM

VACUUM RELIEF VALVE
 *INSTALL PER LOCAL CODES



* ALL PIPING MATERIALS TO BE SUPPLIED BY CUSTOMERS.

** CLOSED WATER SYSTEMS ARE THOSE WITH BACK FLOW PREVENTION DEVICES INSTALLED IN THE INLET SERVICE LINE.

FIGURE 7.
8

TYPICAL INSTALLATION

MIXING VALVE USAGE

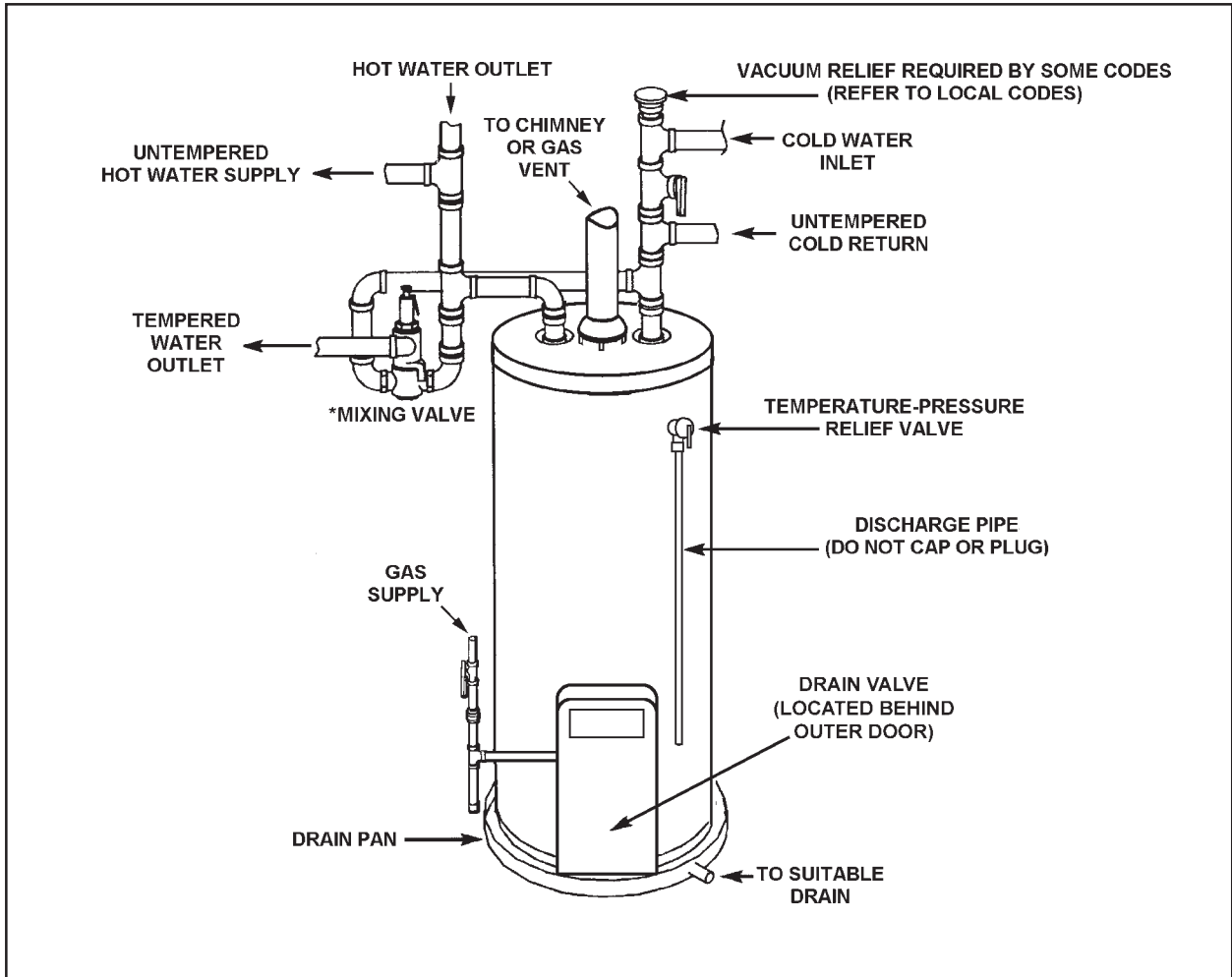


FIGURE 8.

This appliance has been design certified as complying with American National Standard/CSA Standard for water heaters and is considered suitable for:

Water (Potable) Heating: All models are considered suitable for water (potable) heating.

HOTTER WATER CAN SCALD:

Water heaters are intended to produce hot water. Water heated to a temperature which will satisfy space heating, 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, shall 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. See Figure 8. Valves for reducing point of use temperature by mixing cold and hot water are also available. **Consult Maytag Customer Service (1-800-788-8899).** Follow mixing valve manufacturer's instructions for installation of the valves. Before changing the factory setting on the thermostat, read the "Temperature Regulation" section in this manual, see Figures 22 and 23 on page 20.

	<p>Water temperature over 125°F (52°C) can cause severe burns instantly resulting in severe injury or death.</p> <p>Children, the elderly, and the physically or mentally disabled are at highest risk for scald injury.</p> <p>Feel water before bathing or showering.</p> <p>Temperature limiting valves are available.</p> <p>Read instruction manual for safe temperature setting.</p>
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LOCATING THE NEW WATER HEATER

Facts to Consider About the Location

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 not for use in manufactured (mobile) homes or outdoor installation.**

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

- Select a location indoors as close as practical to the gas vent or chimney to which the water heater vent is going to be connected, and as centralized with the water piping system as possible.
- Selected location must provide adequate clearances for servicing and proper operation of the water heater.



CAUTION
Property Damage Hazard
<ul style="list-style-type: none">• All water heaters eventually leak• Do not install without adequate drainage.

Installation of the water heater must be accomplished in such a manner that if the tank or any connections should leak, the flow will not cause damage to the structure. For this reason, it is not advisable to install the water heater in an attic or upper floor. When such locations cannot be avoided, a suitable drain pan should be installed under the water heater. Drain pans are available at your local hardware store. Such a drain pan must have a minimum length and width of at least 2 inches (51 mm) greater than the water heater dimensions and must be piped to an adequate drain. The pan must not restrict combustion air flow.

Water heater life depends upon water quality, water pressure and the environment in which the water heater is installed. Water heaters are sometimes installed in locations where leakage may result in property damage, even with the use of a drain pan piped to a drain. However, unanticipated damage can be reduced or prevented by a leak detector or water shut-off device used in conjunction with a piped drain pan. These devices are available from some plumbing supply wholesalers and retailers, and detect and react to leakage in various ways:

- Sensors mounted in the drain pan that trigger an alarm or turn off the incoming water to the water heater when leakage is detected.
- Sensors mounted in the drain pan that turn off the water supply to the entire home when water is detected in the drain pan.
- Water supply shut-off devices that activate based on the water pressure differential between the cold water and hot water pipes connected to the water heater.

- Devices that will turn off the gas supply to a gas water heater while at the same time shutting off its water supply.

⚠ WARNING
Fire or Explosion Hazard
<ul style="list-style-type: none">• Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.• Avoid all ignition sources if you smell LP gas.• Do not expose water heater control to excessive gas pressure.• Use only gas shown on rating plate.• Maintain required clearances to combustibles.• Keep ignition sources away from faucets after extended period of non-use.
 
Read instruction manual before installing, using or servicing water heater.

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.] and other substances such as adhesives, etc.) emit flammable vapors which can be ignited by a gas water heater's pilot light or main burner. The resulting flashback and fire can cause death or serious burns to anyone in the area. Even though this water heater is a flammable vapors ignition resistant water heater and is designed to reduce the chances of flammable vapors being ignited, gasoline and other flammable substances should never be stored or used in the same vicinity or area containing a gas water heater or other open flame or spark producing appliance.

Also, the water heater must be located and/or protected so it is not subject to physical damage by a moving vehicle.

	⚠ WARNING
	Fire Hazard
	For continued protection against risk of fire:
	<ul style="list-style-type: none">• Do not install water heater on carpeted floor.• Do not operate water heater if flood damaged.

This water heater must not be installed directly on carpeting. Carpeting must be protected by metal or wood panel beneath the appliance extending beyond the full width and depth of the appliance by at least 3 inches (76.2 mm) 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

Fire or Explosion Hazard

Read instruction manual before installing, using or servicing water heater.

- Improper use may result in fire or explosion.
- Maintain required clearances to combustibles.



Minimum clearances between the water heater and combustible construction are 0 inch at the sides and rear, 4 inches (102 mm) at the front, and 6 inches (153 mm) from the vent pipe. Clearance from the top of the jacket is 12 inches (305 mm) on most models. Note that a lesser dimension may be allowed on some models, refer to the label attached adjacent to the gas control valve on the water heater, see Figure 9.

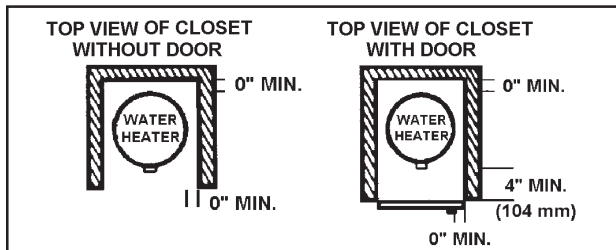
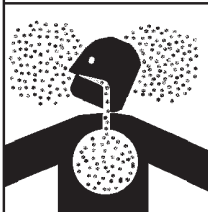


FIGURE 9.

⚠ WARNING

Breathing Hazard - Carbon Monoxide Gas



- Install water heater in accordance with the instruction manual and NFPA54.
- To avoid injury, combustion and ventilation air must be taken from outdoors.
- Do not place chemical vapor emitting products near water heater.

Breathing carbon monoxide can cause brain damage or death. Always read and understand instruction manual.

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 *Locating The New Water Heater* section. Never obstruct the flow of ventilation air. If you have any doubts or questions at all, call your gas supplier. Failure to provide the proper amount of combustion air can result in a fire or explosion and cause death, serious bodily injury, or property damage.

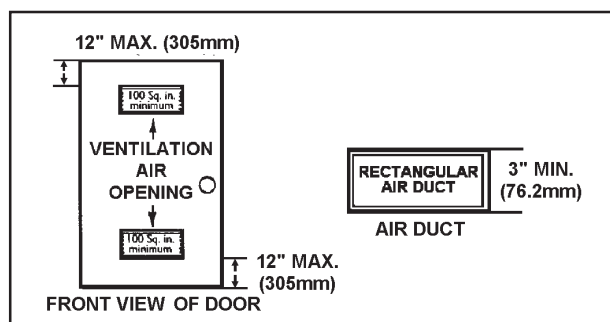


FIGURE 10.


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.

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.

Insulation Blankets

⚠ WARNING

Breathing Hazard - Carbon Monoxide Gas



- Do not obstruct water heater air intake with insulating blanket.
- Gas and carbon monoxide detectors are available.
- Install water heater in accordance with the instruction manual.

Breathing carbon monoxide can cause brain damage or death. Always read and understand instruction manual.

Insulation blankets available to the general public for external use on gas water heaters are not necessary with Maytag products. The purpose of an insulation blanket is to reduce the standby heat loss encountered with storage tank heaters. Your Maytag water heater meets or exceeds the National Appliance Energy Conservation Act standards with respect to insulation and standby loss requirements, making an insulation blanket unnecessary.

Should you choose to apply an insulation blanket to this heater, you should follow these instructions (See Figure 7 for identification of components mentioned below). Failure to follow these instructions can restrict the air flow required for proper combustion, potentially resulting in fire, asphyxiation, serious personal injury or death.

- **Do not** apply insulation to the top of the water heater, as this will interfere with safe operation of the draft hood.
- **Do not** cover the outer door, thermostat or temperature & pressure relief valve.
- **Do not** allow insulation to come within 2" (50.8 mm) of the floor to prevent blockage of combustion air flow to the burner.
- **Do not** cover the instruction manual. Keep it on the side of the water heater or nearby for future reference.
- **Do** obtain new warning and instruction labels from Maytag for placement on the blanket directly over the existing labels.
- **Do** inspect the insulation blanket frequently to make certain it does not sag, thereby obstructing combustion air flow.

Combustion Air and Ventilation for Appliances Located in Unconfined Spaces

UNCONFINED SPACE is space whose volume is not less than 50 cubic feet per 1,000 Btu per hour (4.8 m³ per kW) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed, through openings not furnished with doors, are considered a part of the unconfined space.

In unconfined spaces in buildings, infiltration may be adequate to provide air for combustion, ventilation and dilution of flue gases. However, in buildings of tight construction (for example, weather stripping, heavily insulated, caulked, vapor barrier, etc.), additional air may need to be provided using the methods described in *Combustion Air and Ventilation for Appliances Located in Confined Spaces*.

Combustion Air and Ventilation for Appliances Located in Confined Spaces

CONFINED SPACE is a space whose volume is less than 50 cubic feet per 1,000 Btu per hour (4.8 m³ per kW) of the aggregate input rating of all appliances installed in that space.

A. ALL AIR FROM INSIDE BUILDINGS:

(See Figure 10 on page 11 and Figure 11 below)

The confined space shall be provided with two permanent openings communicating directly with an additional room(s) of sufficient volume so that the combined volume of all spaces meets the criteria for an unconfined space. The total input of all gas utilization equipment installed in the combined space shall be considered in making this determination. Each opening shall have a minimum free area of one square inch per 1,000 Btu per hour (22 cm²/kW) of the total input rating of all gas utilization equipment in the confined space, but not less than 100 square inches (645 cm²). One opening shall commence within 12 inches (30 cm) of the top and one commencing within 12 inches (30 cm) of the bottom of the enclosures.

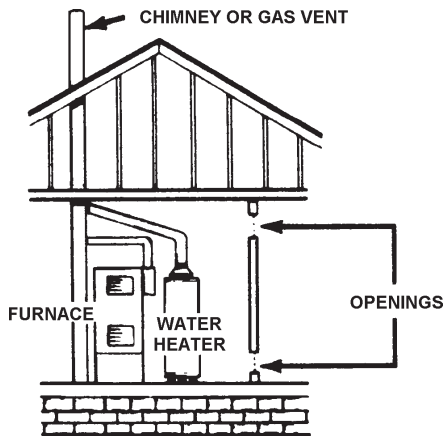


FIGURE 11.

B. ALL AIR FROM OUTDOORS: (See Figures 12, 13 and 14)

The confined space shall be provided with two permanent openings, one commencing within 12 inches (30 cm) of the

top and one commencing within 12 inches (30 cm) from the bottom of the enclosure. The openings shall communicate directly, or by ducts, with the outdoors or spaces (crawl or attic) that freely communicate with the outdoors.

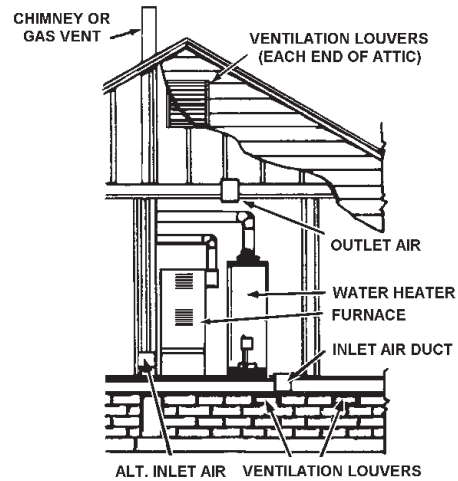


FIGURE 12.

- When directly communicating with the outdoors, each opening shall have a minimum free area of 1 square inch per 4,000 Btu per hour (5.5 cm²/kW) of total input rating of all equipment in the enclosure, see Figure 12.
- When communicating with the outdoors through vertical ducts, each opening shall have a minimum free area of 1 square inch per 4,000 BTU per hour (5.5 cm²/kW) of total input rating of all equipment in the enclosure, see Figure 13.

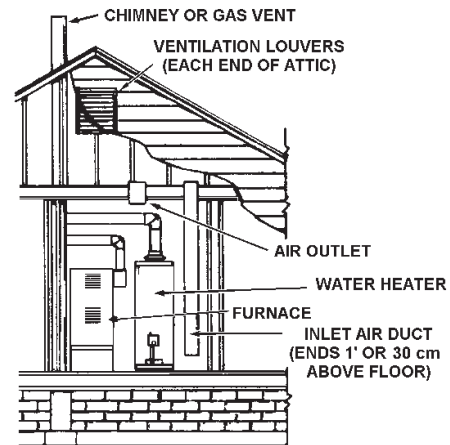


FIGURE 13.

- When communicating with the outdoors through horizontal ducts, each opening shall have a minimum free area of 1 square inch per 2,000 BTU per hour (11 cm²/kW) of total input rating of all equipment in the enclosure, see Figure 14.
- When ducts are used, they shall be of the same cross-sectional area as the free area of the openings to which they connect. The minimum short side dimension of rectangular air ducts shall not be less than 3 inches (76.2 mm), see Figure 14.

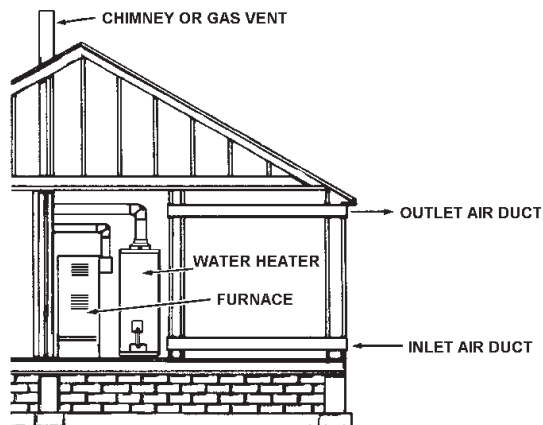


FIGURE 14.

- Louvers and Grilles: In calculating free area, consideration shall be given to the blocking effect of louvers, grilles or screens protecting openings. Screens used shall not be smaller than 1/4 inch (6.4 mm) mesh. If the free area through a design of louver or grille is known, it should be used in calculating the size opening required to provide the free area specified. If the design and free area is not known, it may be assumed that wood louvers will be 20-25 percent free area and metal louvers and grilles will have 60-75 percent free area. Louvers and grilles shall be fixed in the open position or interlocked with the equipment so that they are opened automatically during equipment operation.
- Special Conditions Created by Mechanical Exhausting or Fireplaces: operation of exhaust fans, ventilation systems, clothes dryers or fireplaces may create conditions requiring special attention to avoid unsatisfactory operation of installed gas utilization equipment.

Water Piping

	<p>Water temperature over 125°F (52°C) can cause severe burns instantly resulting in severe injury or death.</p> <p>Children, elderly, and the physically or mentally disabled are at highest risk for scald injury.</p> <p>Feel water before bathing or showering.</p> <p>Temperature limiting valves are available.</p> <p>Read instruction manual for safe temperature setting.</p>
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HOTTER WATER CAN SCALD:

Water heaters are intended to produce hot water. Water heated to a temperature which will satisfy space heating, clothes washing, dish washing, cleaning 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, shall 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, see Figure 8 on page 9 and Figure 15 below. Valves for reducing point of use temperature by mixing cold and hot water are also available. **Consult Maytag Customer Service (1-800-788-8899).** Follow manufacturer's instructions for installation of the valves. Before changing the factory setting on the thermostat, read the *Temperature Regulation* section in this manual.

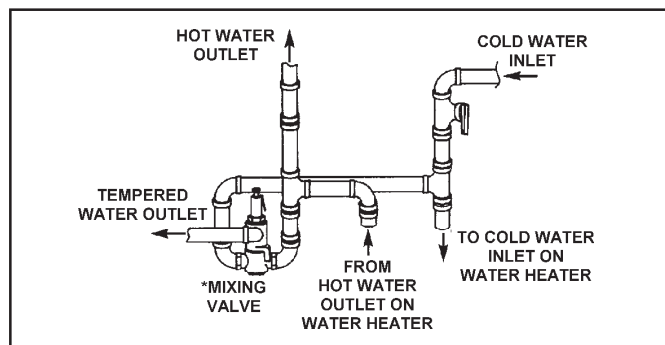


FIGURE 15.

<p>⚠ WARNING</p>
<p>Toxic Chemical Hazard</p>
<p>• Do not connect to non-potable water system.</p>

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

Toxic chemicals, such as those used for boiler treatment shall not be introduced into this system.

Water supply systems may, because of such events as high line pressure, frequent cut-offs, the effects of water hammer among 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. Refer to the *Thermal Expansion* section under *Troubleshooting Guide* or contact local plumbing authority or **call Maytag Customer Service at 1-800-788-8899 for an authorized installer on how to control this situation.**

CAUTION

Property Damage Hazard

- Avoid water heater damage.
- Install thermal expansion tank if necessary.
- Do not apply heat to cold water inlet.
- Contact qualified installer or Maytag Service Center.

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.

NOTE: The secondary anode rod/hot outlet nipple and the cold inlet nipple are packaged separately with the water heater. The above parts must be installed in the appropriate HOT and COLD water connections.

Figure 16 shows the typical attachment of the water piping to the water heater. The water heater is equipped with 3/4" NPT water connections for 40 and 50 gallon models.

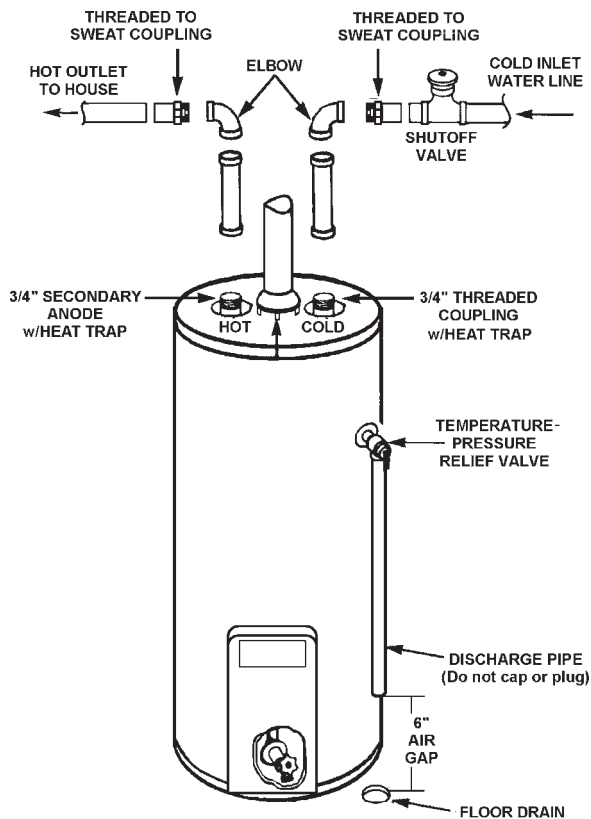


FIGURE 16.

NOTE: If using copper tubing, solder tubing to an adapter before attaching the adapter 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.

- 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" NPT threaded nipple. Using standard pipe fittings, connect the hot water pipe to the hot water outlet on the water heater.

- Look at the top 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" NPT threaded nipple. Using standard pipe fittings, connect the cold water pipe to the cold water inlet of the water heater.

NOTE: This water heater is super 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.

T & P Valve and Pipe Insulation

Remove insulation for T & P valve and pipe connections from carton.

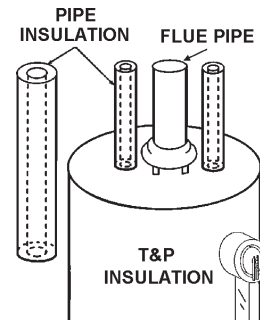


FIGURE 16A.

Fit pipe insulation over the incoming cold water line and the hot water line. Make sure that the insulation is against the top cover of the heater.

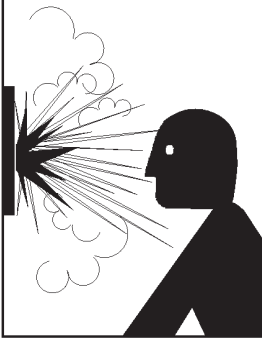
Fit T & P valve insulation over valve. Make sure that the insulation does not interfere with the lever of the T & P valve.

Secure all insulation using tape.

Temperature-Pressure Relief Valve

⚠ WARNING

Explosion Hazard



- Temperature-pressure relief valve must comply with ANSI Z21.22 and ASME code.
- Properly sized temperature-relief valve must be installed in opening provided.
- Can result in overheating and excessive tank pressure.
- Can cause serious injury or death.

This heater is provided with a properly certified combination temperature - pressure relief valve by the manufacturer.

The valve is certified by a nationally recognized testing laboratory that maintains periodic inspection of production of listed equipment of materials as meeting the requirements for Relief Valves and Automatic Gas Shut-off Devices for Hot Water Supply Systems, 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 indicated in the above paragraph.

The valve must be marked with a maximum set pressure not to exceed the marked hydrostatic working pressure of the water heater (150 psi = 1,035 kPa) and a discharge capacity not less than the water heater input rate as shown on the model rating plate.

For safe operation of the water heater, the relief valve must not be removed from its designated opening nor plugged.

The temperature-pressure relief valve must be installed directly into the fitting of the water heater designed for the relief valve. Position the valve downward and provide tubing so that any discharge will exit only within 6 inches (153 mm) 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 (9.14 m), or use of more than four elbows can cause restriction and reduce the discharge capacity of the valve, see Figure 17.

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 inch 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.

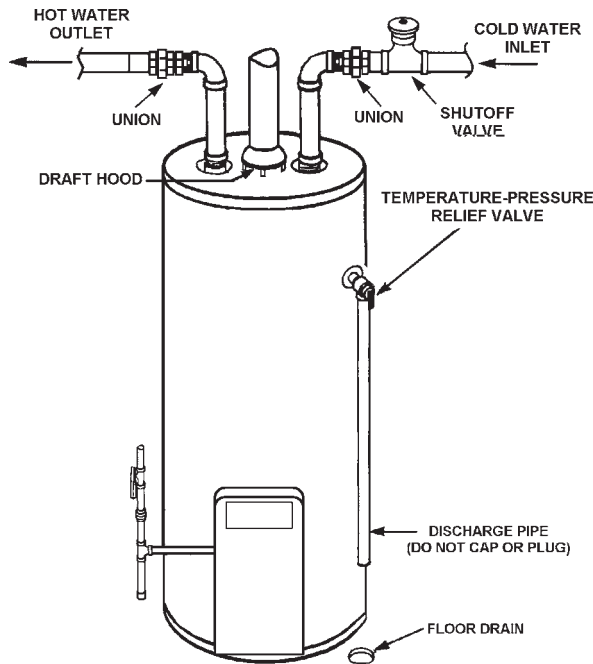


FIGURE 17.

CAUTION
Water Damage Hazard
<ul style="list-style-type: none"> • Temperature-pressure relief valve discharge pipe must terminate at adequate drain.

The Discharge Pipe:

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

⚠ DANGER	<p>Water temperature over 125°F (52°C) can cause severe burns instantly resulting in severe injury or death.</p> <p>Children, the elderly, and the physically or mentally disabled are at highest risk for scald injury.</p> <p>Feel water before bathing or showering.</p> <p>Temperature limiting valves are available.</p> <p>Read instruction manual for safe temperature setting.</p>

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.

Filling the Water Heater

CAUTION
Property Damage Hazard
<ul style="list-style-type: none"> • Avoid water heater damage. • Fill tank with water before operating.

Never use this water heater unless it is completely full of 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 water piping and connections for leaks. Repair as needed.

Venting

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 the flue gases and may cause carbon monoxide poisoning.

Vent dampers must bear evidence of certification as complying with the current 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 your Maytag Customer Service Center at 1-800-788-8899 or the local gas supplier for further information.**

⚠ WARNING	
Breathing Hazard - Carbon Monoxide Gas	
	<ul style="list-style-type: none"> • Vent dampers must be certified in accordance with ANSI Z21.68. • Vent damper must permit proper drafting of water heater. • Install properly sized venting. • Do not install without venting outdoors. • Do not install without draft hood. • If common vented install in accordance with NFPA 54. • Be alert for obstructed or deteriorated vent system to avoid serious injury or death.
<p>Breathing carbon monoxide can cause brain damage or death. Always read and understand instruction manual.</p>	

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 your Maytag Service Center at 1-800-788-8899 or gas supplier if any such changes are planned.**

For proper venting in certain installations, a larger diameter vent pipe may be necessary. Consult your Maytag Customer Service Center or gas supplier to aid you in determining the

proper venting for your water heater from the vent tables in the current edition of the National Fuel Gas Code ANSI Z223.1/ NFPA 54.

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

The combustion and ventilation air flow must not be obstructed.

The water heater with draft hood installed must be connected to a chimney or listed vent pipe system, which terminates to the 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.

- For proper draft hood attachment, the draft hood legs may be angled slightly inward.
- 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. Secure two legs to top with sheet metal screws.
- 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, see Figure 18.

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

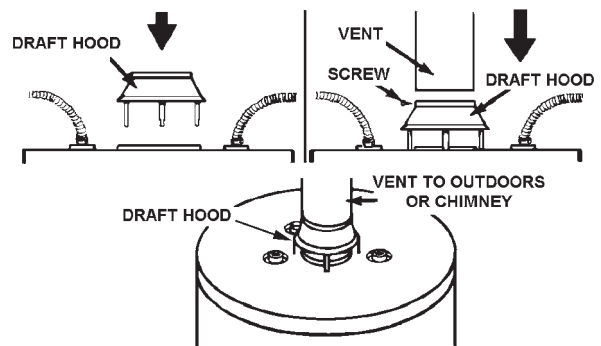


FIGURE 18.

The vent pipe from the water heater must be no less than the diameter of the draft hood outlet on the water heater and must slope upward at least 1/4 inch per linear foot (21 mm per meter), see Figure 19.

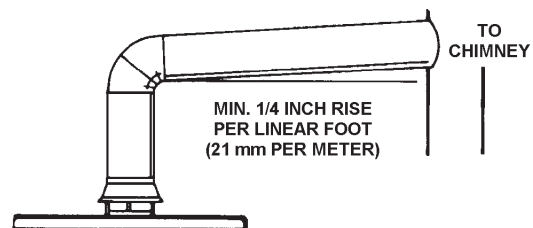



FIGURE 19.

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.

There must be a minimum of 6 inches (153 mm) clearance between single wall vent pipe and any combustible material. Fill and seal any clearance between single wall vent pipe and combustible material with mortar mix, cement, or other noncombustible substance. For other than single wall, follow vent pipe manufacturer's clearance specifications. To insure a tight fit of the vent pipe in a brick chimney, seal around the vent pipe with mortar mix cement.


⚠ WARNING	
Breathing Hazard - Carbon Monoxide Gas	
	<ul style="list-style-type: none"> • Flue gases may escape if vent pipe is not connected. • Do not store corrosive chemicals in vicinity of water heater. • Chemical corrosion of flue and vent system can cause serious injury or death. • Contact a qualified installer or service agency.
<p>Breathing carbon monoxide can cause brain damage or death. Always read and understand instruction manual.</p>	

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

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

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	
Fire and Explosion Hazard	
	<ul style="list-style-type: none"> • Do not use water heater with any gas other than the gas shown on the rating plate. • Excessive pressure to gas control valve can cause serious injury or death. • Turn off gas lines during installation. • Contact qualified installer or service agency.

Make sure the gas supplied is the same type listed on the model rating plate. The inlet gas pressure must not exceed 14 inch water column (2.6kPa) for natural and propane gas (L.P.) gas. The minimum inlet gas pressure listed on the rating

plate is for the purpose of input adjustment. If the gas control valve is subjected to pressures exceeding 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.

If the main gas line Shut-off 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 current edition of National Fuel Gas Code ANSI Z223.1/NFPA 54 and your gas supplier 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 shut off 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.

The minimum inlet gas pressure shown on the rating plate is that which will permit firing at the rated input.

⚠ WARNING	
Breathing Hazard - Carbon Monoxide Gas	
	<ul style="list-style-type: none"> • High altitude orifice must be installed for operation above 3,300 ft. (1,006 m) or 5,500 ft. (1,676 m) for a high altitude models. • Contact a qualified installer or service agency.
<p>Breathing carbon monoxide can cause brain damage or death. Always read and understand instruction manual.</p>	

If a standard model is installed above 3,300 feet (1,006 m) or a high altitude model is installed above 5,500 feet (1,676 m) the input rating should be reduced at the rate of 4 percent for each 1,000 feet (305 m) above sea level which requires replacement of the burner orifice in accordance with National Fuel Gas Code ANSI Z223.1/NFPA 54. **Contact Maytag Customer Service Center at 1-800-788-8899 or your local gas supplier or call for further information.**

Failure to replace the standard orifice with a high altitude orifice when installed at elevations above 3,300 feet (1,006 m) or above 5,500 feet (1,676 m) for high altitude model could result in improper and inefficient operation of the appliance, producing carbon monoxide gas in excess of safe limits, which could result in serious injury or death. **Contact Maytag Customer Service at 1-800-788-8899 or your local gas supplier for any specific changes which may be required in your area.**

	⚠ WARNING
	Fire and Explosion Hazard <ul style="list-style-type: none"> • Use joint compound or tape compatible with propane. • Leak test before operating heater. • Disconnect gas piping and shut-off valve before pressure testing system.


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

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

The appliance and its individual Shut-off valve shall be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 pound per square inch (3.5kPa). It shall be isolated from the gas supply piping system by closing its individual manual Shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 pound per square inch (3.5kPa).

Connecting the gas piping to the gas control valve of the water heater can be accomplished by either of the two methods, shown in Figures 20 and 21.

Sediment Traps

	⚠ WARNING
	Fire and Explosion Hazard <ul style="list-style-type: none"> • Contaminants in gas lines can cause fire or explosion. • Clean all gas piping before installation. • Install drip leg in accordance with NFPA 54.

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 current edition of the National Fuel Gas Code, ANSI Z223.1/NFPA 54.

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 in Figures 20 and 21.

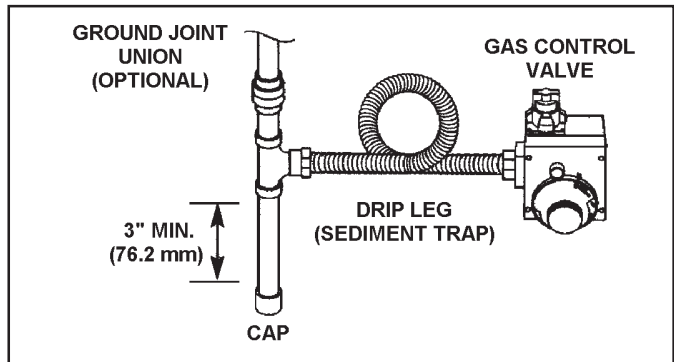


FIGURE 20. GAS PIPING WITH FLEXIBLE CONNECTOR.

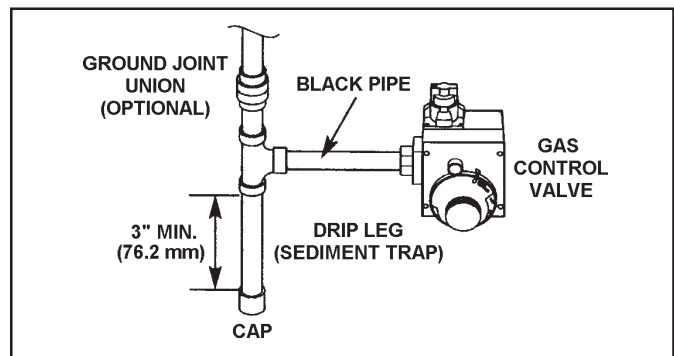


FIGURE 21. GAS PIPING WITH ALL BLACK IRON PIPE TO GAS CONTROL.

OPERATING INSTRUCTIONS

FOR YOUR SAFETY READ BEFORE LIGHTING



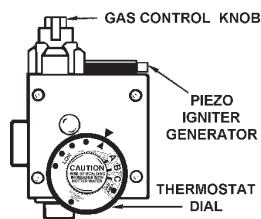
WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.



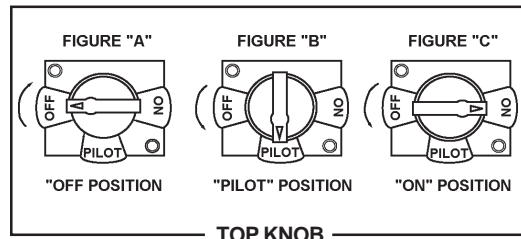
BEFORE OPERATING: ENTIRE SYSTEM MUST BE FILLED WITH WATER AND AIR PURGED FROM ALL LINES.

- 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.
- D. 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 contact a qualified installer or service agency to replace a flooded water heater. Do not attempt to repair the unit! It must be replaced!

LIGHTING INSTRUCTIONS



GAS CONTROL



TOP KNOB

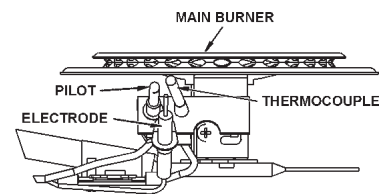


FIGURE "D"

- STOP!** Read the safety information above on this label.
 - Set the thermostat to lowest setting (PILOT LIGHTING). Turn thermostat dial fully clockwise until it stops.
 - Push the gas control knob down slightly and turn clockwise to "OFF", SEE FIGURE "A".
NOTE: Knob CANNOT be turned from "PILOT" to "OFF" unless it is pushed down slightly. Do not force.
 - Remove the outer burner door located below the gas control.
 - 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 next step.
 - This unit is equipped with a push button pilot igniter, which is used to light the pilot. Locate the igniter on the gas control.
 - Turn gas control knob counterclockwise to "PILOT", SEE FIGURE "B".
 - The pilot is located on the right side of the burner. It can be located by looking through the glass view port while pressing the piezo igniter button several times. Look for a spark at the pilot location, FIGURE "D".
 - Once the pilot has been found, push the gas knob all the way down. Immediately press the pilot igniter button rapidly (4) to (5) times. If the pilot will not light, repeat step (3) through (9).
 - Continue to hold the gas control knob down for about one (1) minute after the pilot is lit. Release the gas control knob and it will pop back up. Pilot should remain lit. If it goes out, repeat step (3) through (9). It may take several minutes for air to clear the lines before the pilot will light.
 - 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, turn the gas control knob clockwise to "OFF" and call your service technician or gas supplier. SEE FIGURE "A".
 - Once the pilot flame is established replace the outer burner door.
 - At arms length away, turn gas control knob counterclockwise to "ON". SEE FIGURE "C".
 - Set thermostat to desired setting.
- DANGER: Hotter water increases the risk of scald injury. Consult the instruction manual before changing temperature.**

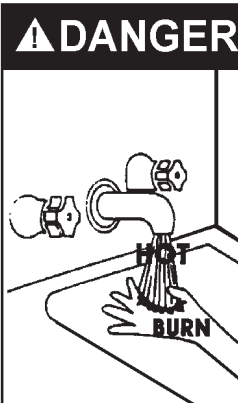
TO TURN OFF GAS TO APPLIANCE

- Set thermostat to the lowest setting (PILOT LIGHTING).
- Push gas control knob down slightly and turn clockwise to "OFF". Do not force. SEE FIGURE "A".

Temperature Regulation

Due to the nature of the typical gas water heater, the water temperature in certain situations may vary up to 30F° (16.7 C°) higher or lower at the point of use such as, bathtubs, showers, sink, etc.

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



Water temperature over 125°F (52°C) can cause severe burns instantly resulting in severe injury or death.

Children, the elderly, and the physically or mentally disabled are at highest risk for scald injury.

Feel water before bathing or showering.

Temperature limiting valves are available.

Read instruction manual for safe temperature setting.

HOTTER WATER CAN SCALD: Water heaters are intended to produce hot water. Water heated to a temperature which will satisfy space heating, 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, shall 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, see Figure 8 on page 9 and Figure 15 on page 13. Valves for reducing point of use temperature by mixing cold and hot water are also available. **Consult Maytag Customer Service (1-800-788-8899).** Follow manufacturer's instructions for

installation of the valves. Before changing the factory setting on the thermostat, read the *Temperature Regulation* section in this manual, see Figures 22 and 23.

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.

NOTE: A water temperature range of 120°F-140°F (49°C-60°C) is recommended by most dishwasher manufacturers.

The thermostat of this water heater has been factory set at its lowest position (PILOT LIGHTING). It is adjustable and must be reset to the desired temperature setting to reduce the risk of scald injury. The mark (▲) indicative of approximately 120°F (49°C) is preferred starting point. Some states have a requirement for a lower setting.

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

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

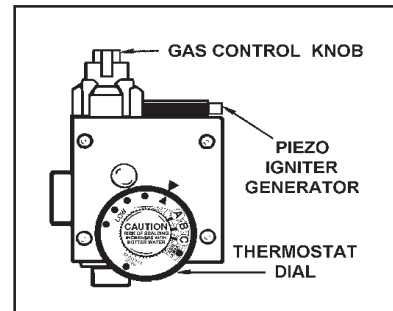


FIGURE 22.

Temperature Settings	Time to Produce 2nd & 3rd Degree Burns on Adult Skin
VERY HOT=approx. 160°F (71°C)	About 1/2 second
C = approx. 150°F (66°C)	About 1-1/2 seconds
B = approx. 140°F (60°C)	Less than 5 seconds
A = approx. 130°F (54°C)	About 30 seconds
▲ = approx. 120°F (49°C)	More than 5 minutes
LOW = approx. 80°F (27°C)	-----

FIGURE 23.

SERVICE AND MAINTENANCE


Tank (Sediment) Cleaning

Sediment build-up on the tank bottom may create varying amount of noise, if left in the tank will cause permanent tank failure. In some water areas, sediment can be removed by draining off approximately one gallon of water each month.

Vent System Inspection

⚠ WARNING

Carbon Monoxide and Fire Hazard



- Flue gases may escape if vent pipe is not connected.
- Be alert for obstructed, sooted or deteriorated vent system to avoid serious injury or death.
- Do not store corrosive chemicals in vicinity of water heater.
- Chemical corrosion of flue and vent system can cause serious injury or death

Breathing carbon monoxide can cause brain damage or death. Always read and understand instruction manual.

At least once a year a visual inspection should be made of the venting system. You should look for:

- Obstructions which could cause improper venting. The combustion and ventilation air flow must not be obstructed.
- Damage or deterioration which could cause improper venting or leakage of combustion products.
- Rusted flakes around top of water heater.

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

Obstructions and deteriorated vent systems may present serious health risk or asphyxiation.

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.

If after inspection of the vent system you found sooting or deterioration, something is wrong. **Call Maytag Customer Service at 1-800-788-8899 for an authorized servicer or your local gas supplier to correct the problem and clean or replace the flue and venting before resuming operation of the water heater.**

Burner Inspection

Flood damage to a water heater may not be readily visible or immediately detectable. However, over a period of time a flooded water heater will create dangerous conditions which can cause **DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE**. Contact the Maytag dealer from whom the appliance was purchased or **call Maytag Customer Service at 1-800-788-8899 for an authorized servicer to replace a flooded water heater. Do not attempt to repair the unit! It must be replaced!**

At least once a year a visual inspection should be made of the main burner and pilot burner, see Figure 24.

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

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 causing death, serious injury, or property damage.

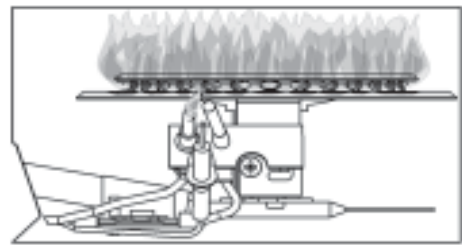



FIGURE 24.

Burner Cleaning


⚠ DANGER

Fire or Explosion Hazard


Failure to properly reseal the combustion chamber will disable the flammable vapor ignition resistance feature of this water heater, which could result in death or serious injury. Contact your local Maytag Service Center for assistance.



Read instruction manual before installing, using or servicing water heater.



In the event your burner needs cleaning, following these 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.

The burner needs to be removed for cleaning. **Call Maytag Customer Service at 1-800-788-8899 for an authorized servicer to remove and clean the burner and correct the problem that required the burner to be cleaned.**

Housekeeping

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

	<h3>⚠ DANGER</h3>
	<p>Fire and Explosion Hazard</p> <ul style="list-style-type: none"> Do not obstruct combustion air openings at the bottom of the water heater. Do not use or store flammable vapor products such as gasoline, solvents or adhesives in the same room or area near water heater or other appliance. Visibly inspect air intake screen at least once every six months and clean if accumulated lint. Can cause serious injury or death.

AT LEAST ONCE EVERY SIX MONTHS A VISUAL INSPECTION SHOULD BE MADE OF THE AIR INTAKE SCREEN. CLEAN IF LINT ACCUMULATIONS ARE NOTICED.

INSTALLED IN SUITABLE AREA: To insure sufficient ventilation and combustion air supply, proper clearances from the water heater must be maintained. See *Facts to Consider About the Location* section. Combustible materials such as clothing, cleaning materials, or flammable liquids, etc. must not be placed against or adjacent to the water heater which can cause a fire.

Anode Rod Inspection

<h3>CAUTION</h3>
<p>Property Damage Hazard</p>
<ul style="list-style-type: none"> Avoid water heater damage. Inspect and replace anode rod as needed.

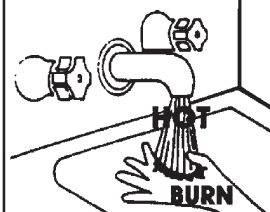
The anode rod is used to protect the tank from corrosion. Most hot water tanks are equipped with an anode rod. The submerged rod sacrifices itself to protect the tank. Instead of corroding the tank, water ions attack and eat away the anode rod. This does not affect the water's taste or color. The rod must be maintained to keep the tank in operating condition.

Anode deterioration depends on water conductivity, not necessarily water condition. A corroded or pitted anode rod indicates high water conductivity and should be checked and/or replaced more often than an anode rod that appears to be intact. Replacement of a depleted anode rod can extend the life of your water heater. Inspection should be conducted by a

qualified technician. At a minimum, the anode(s) should be checked annually after the warranty period.

Temperature-Pressure Relief Valve Operation

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

<h3>⚠ DANGER</h3>	<ul style="list-style-type: none"> Burn hazard Hot water discharge. Keep clear of relief valve discharge outlet.
	

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 discharge will not cause any property damage, as the water may be extremely hot, see Figure 25.

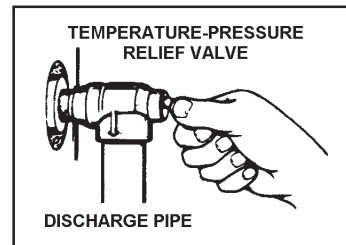
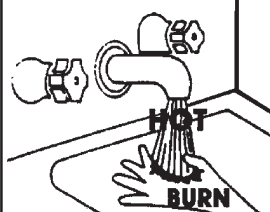


FIGURE 25.

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.

If the temperature-pressure relief valve on the appliance weeps or discharges periodically, this may be due to thermal expansion. You may have a check valve installed in the water line or a water meter with a check valve. **Consult Maytag Customer Service at 1-800-788-8899 for further information. Do not plug the temperature-pressure relief valve.**

Draining

<h3>⚠ DANGER</h3>	<ul style="list-style-type: none"> Burn hazard Hot water discharge. Keep hands clear of drain valve discharge.
	

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.

Drain Valve Washer Replacement

(See Figure 26)

NOTE: For ordering replacement washers, refer to the “Repair Parts List” section of this manual.

- 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.

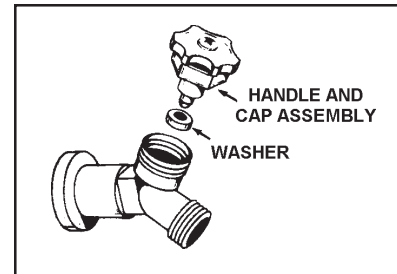


FIGURE 26.

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 the Maytag Customer Service Center check it out.

Call the Maytag Customer Service at 1-800-788-8899 for an authorized servicer.

TROUBLESHOOTING

Start Up Conditions

Draft Hood Operation

Check draft hood operation by performing a worst case depressurization of the building. With all doors and windows closed, and with all air handling equipment and exhaust fans operating, such as furnaces, clothes dryers, range hoods and bathroom fans, a match flame should still be drawn into the draft hood of the water heater with its burner firing. If the flame is not drawn toward the draft hood, shut off the water heater and make necessary air supply changes to correct.

Condensation

Whenever the water heater is filled with cold water, some condensate 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:

- A new water heater is filled with cold water for the first time.
- Burning gas produces water vapor. In water heaters,

particularly high efficiency models where flue temperatures are lower.

- Large amounts of hot water are used in a short time and the refill water in the tank 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

CAUTION
Property Damage Hazard
<ul style="list-style-type: none">• Avoid water heater damage.• Install thermal expansion tank or device if necessary.• Contact qualified installer or service agency.

Water supply system may, because of such events as high line pressure, frequent cut-offs, the effects of water hammer among 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 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 or device to relieve the pressure built by thermal expansion in the water system. Thermal expansion tanks are available for ordering through the Maytag Customer Service Center (1-800-788-8899). Contact the local plumbing inspector, water supplier and/or **call Maytag Customer Service at 1-800-788-8899 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 within the burner area during heating and cooling periods and should be considered normal. See *Condensation* section.

Operational Conditions

Smelly Odor

In each 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 concentration of sulfate in the supply water.
- little or no dissolved oxygen in the water.
- a sulfate reducing bacteria within the water heater. (This harmless bacteria is non-toxic to humans.)
- 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 Maytag Customer Service at 1-800-788-8899 for further information concerning an Anode Replacement Kit and this Chlorination Treatment.**

If the smelly water persists after the anode replacement and chlorination treatment, we can only suggest that chlorination or aeration of the water supply 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.

"AIR" In Hot Water Faucets

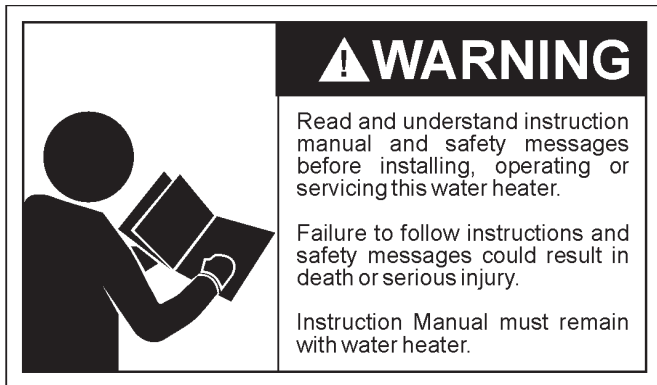
	⚠ WARNING Explosion Hazard <ul style="list-style-type: none">• Flammable hydrogen gases may be present.• Keep all ignition sources away from faucet when turning on hot water.
--	--

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, located farthest away, be opened for several minutes 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.

High Temperature Shut Off System

This water heater is equipped with an automatic gas Shut-off system. This system works when high water temperatures are present. Turn "OFF" the entire gas supply to the water heater. The high temperature Shut-off is built into the gas control valve. It is non-resettable. If the high temperature Shut-off activates, the gas control valve must be replaced. **Call Maytag Customer Service at 1-800-788-8899 for an authorized servicer.**

Leakage Checkpoints



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.

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, see Figure 28.

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. **Call Maytag Customer Service at 1-800-788-8899 for an authorized servicer.**

B. *Condensation may be seen on pipes in humid weather or pipe connections may be leaking.

C. *The 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 being slightly opened.

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 onto the burner or run on the floor. This is common at the time of start-up 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.

* To check where threaded portion enters tank, insert cotton swab between jacket opening and fitting. If cotton is wet, follow "Draining" instructions in the *Periodic Maintenance* 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 *Installing the New Water Heater* section.

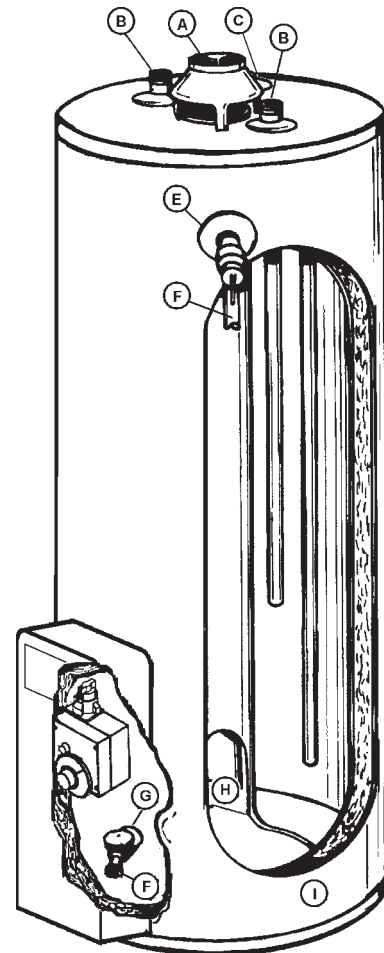


FIGURE 28.

TROUBLESHOOTING GUIDE

These guidelines should be used by a qualified Maytag Customer Service Center Agent. Call the Maytag Customer Service Center at 1-800-788-8899 for assistance. Inform the associate that this is a "Flammable Vapor Ignition Resistant" Product.

Problem	Cause	Solution
WATER LEAKS	Improperly sealed, hot or cold supply connection, relief valve, drain valve, or thermostat threads.	Tighten threaded connections.
	Leakage from other appliances or water lines.	Inspect other appliances near water heater.
	Condensation of flue products.	Refer to CONDENSATION.
LEAKING T&P VALVE	Thermal expansion in closed water system.	Install thermal expansion tank (DO NOT plug T&P valve).
	Improperly seated valve.	Check relief valve for proper operation (DO NOT plug T&P valve).
SMELLY ODORS	High sulfate or mineral content in water supply.	Drain and flush heater thoroughly, then refill.
	Bacteria in water supply.	Chlorinate or aerate water supply.
PILOT WILL NOT LIGHT	Gas control knob not positioned correctly.	Refer to LIGHTING INSTRUCTIONS.
	Main gas supply off.	Turn on main gas shutoff valve.
	Igniter tip more than 1/8" from pilot hood.	Adjust igniter tip.
	Thermocouple malfunction.	Replace pilot assembly.
	Thermocouple TCO malfunction.	Replace pilot assembly.
	Melted insulation on igniter wire or shorting of igniter wire.	Contact a Maytag Customer Service Agent to determine cause.
	High ambient room temperature.	Contact a Maytag Customer Service Agent to determine cause.
	Wire disconnected from spark igniter.	Reconnect wire connector to spark igniter.
	Broken electrode or electrical wire.	Replace pilot assembly.
	Piezo Igniter generator fails to operate or malfunctions.	Replace Piezo Igniter generator.
BURNER WILL NOT STAY LIT	Thermocouple TCO malfunction.	Replace pilot assembly.
	High ambient room temperature.	Contact a Maytag Customer Service Agent to determine cause.
	Dirty or clogged air intake screen.	Clean and reinstall air intake screen.
	Flame arrestor openings blocked.	Contact a Maytag Customer Service Agent to determine cause.
	Defective Gas Control.	Replace Gas Control.
PILOT OUTAGE	Dirty pilot burner.	Clean pilot assembly.
	Dirty or clogged air intake screen.	Clean and reinstall air intake screen.
	Thermocouple tip is not in contact with pilot flame.	Insert thermocouple correctly.
	Thermocouple malfunction.	Replace pilot assembly.
	Thermocouple TCO malfunction.	Replace pilot assembly.
	Defective Gas Control.	Replace Gas Control.
NOT ENOUGH HOT WATER	Heater not lit or thermostat not on.	Refer to LIGHTING INSTRUCTIONS.
	Thermostat set too low.	Refer to TEMPERATURE REGULATION.
	Heater undersized.	Reduce hot water use.
	Low gas pressure.	Contact your gas supplier.
	Incoming water is unusually cold.	Allow more time for heater to re-heat.
	Leaking hot water pipes or fixtures.	Have plumber check and repair leaks.
	High temperature limit switch activated.	Contact a Maytag Customer Service Agent to determine cause.
WATER TOO HOT	Thermostat set too high.	Refer to TEMPERATURE REGULATION.
WATER HEATER SOUNDS	Condensation dripping on burner.	Refer to CONDENSATION.
SIZZLING - RUMBLING	Sediment or calcium in bottom of heater tank.	Clean sediment from tank. Refer to DRAINING instructions in Maintenance section of manual.
SOOTING	Improper combustion.	No adjustment available. Contact a Maytag Customer Service Agent to determine cause.
VENT GAS ODORS	Lack of supply air.	Contact a Maytag Customer Service Agent to determine cause.
	Improperly installed vent piping.	
	Downdraft.	
	Poor combustion.	

NOTES

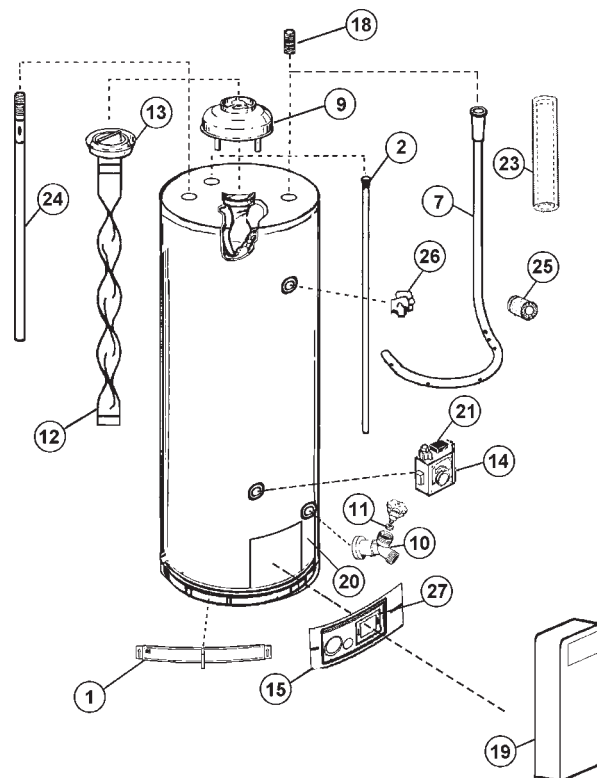
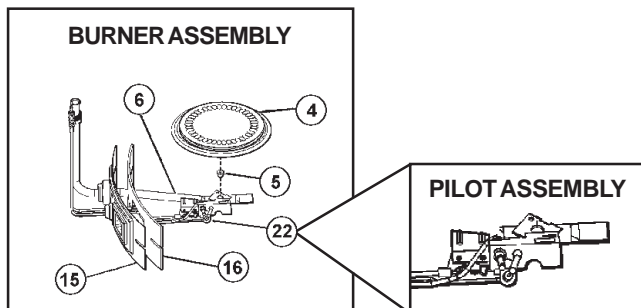
NOTES

REPAIR PARTS LIST

MAYTAG GAS WATER HEATERS

MODEL NO'S

HRN11240X	40 Gallon Natural Gas
HRP11240X	40 Gallon Propane Gas (L.P.)
HRN11250Q	50 Gallon Natural Gas
HRP11250Q	50 Gallon Propane Gas (L.P.)
HRN11250X	50 Gallon Natural Gas
HRP11250X	50 Gallon Propane Gas (L.P.)



Key No.	Part Description	Model Numbers					
		HRN11240X	HRP11240X	HRN11250Q	HRP11250Q	HRN11250X	HRP11250X
1	Air Intake Screen	66001503	66001503	66001503	66001503	66001503	66001503
2	Anode Rod	66001251	66001251	66001020	66001020	66001020	66001020
3	Burner Assembly	66001598	66001600	66001782	66001786	66001602	66001618
4	Burner Head**	66001494	66001494	66001510	66001570	66001494	66001494
5	Burner Orifice**	66001538	66001604	66001783	66001787	66001814	66001604
6	Burner Tube**	66001605	66001606	66001784	66001788	66001607	66001607
7	Dip Tube/Inlet Tube	66001829	66001829	66001649	66001649	66001829	66001829
*8	Dip Tube/Inlet Tube Gasket	66001269	66001812	66001812	66001812	66001812	66001812
9	Draft Hood	66001817	66001817	66001785	66001785	66001612	66001612
10	Drain Valve	66001015	66001015	66001016	66001016	66001015	66001015
11	Drain Valve Washer	66001021	66001021	N/A	N/A	66001021	66001021
12	Flue Baffle	66001815	66001815	66001807	66001807	66001831	66001831
13	Flue Restrictor	66001795	66001795	66001652	66001652	66001795	66001795
14	Gas Control Valve	66001183	66001823	66001575	66001576	66001183	66001823
15	Inner Door**	66001499	66001499	66001498	66001498	66001498	66001498
16	Inner Door Gasket	66001500	66001500	66001500	66001500	66001500	66001500
*17	Instruction Manual	66001861	66001861	66001861	66001861	66001861	66001861
18	Nipple w/Heat Traps	66001704	66001704	66001704	66001704	66001704	66001704
19	Outer Door	66001858	66001858	66001858	66001858	66001858	66001858
20	Outer Door Filler	66001810	66001810	N/A	N/A	66001616	66001616
21	Piezo Igniter w/Bracket	66001507	66001507	66001507	66001507	66001507	66001507
22	Pilot Assembly**	66001822	66001552	66001541	66001552	66001822	66001552
23	Pipe Insulation (2 ea.)	66001755	66001755	66001708	66001708	66001755	66001755
24	Secondary Anode Rod	66001859	66001859	66001859	66001859	66001859	66001859
25	Temperature & Pressure Insulation	66001709	66001709	66001709	66001709	66001709	66001709
26	Temperature & Pressure Relief Valve	66001700	66001700	66001700	66001700	66001700	66001700
27	Viewport Assembly	66001509	66001509	66001813	66001509	66001509	66001509

* Not Shown. ** Includes Inner Door Gasket.

Now that you have purchased this gas water heater, should a need ever exist for repair parts or service, simply call **Maytag Customer Service at 1-800-788-8899 for an authorized servicer.** Be sure to provide all pertinent facts when you call or visit.

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

The model number of this 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:

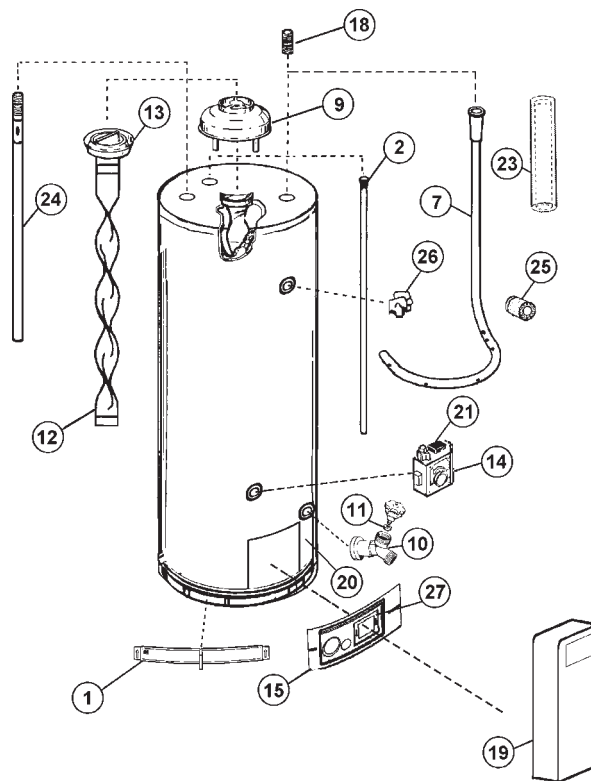
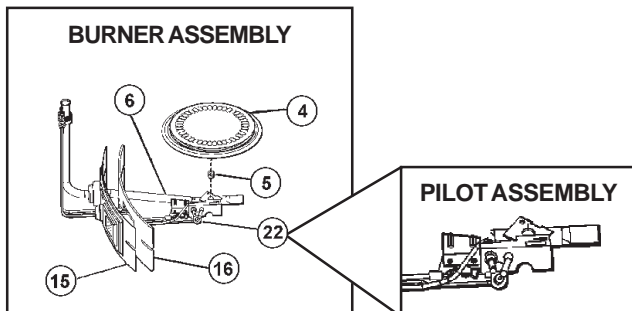
- Model number
- Serial Number
- Part Description
- Part Number

REPAIR PARTS LIST

MAYTAG GAS WATER HEATERS

MODEL NO'S

HRN31240X	40 Gallon Natural Gas
HRP31240X	40 Gallon Propane Gas (L.P.)
HRN31250Q	50 Gallon Natural Gas
HRP31250Q	50 Gallon Propane Gas (L.P.)
HRN31250X	50 Gallon Natural Gas
HRP31250X	50 Gallon Propane Gas (L.P.)



Key No.	Part Description	Model Numbers					
		HRN31240X	HRP31240X	HRN31250Q	HRP31250Q	HRN31250X	HRP31250X
1	Air Intake Screen	66001503	66001503	66001503	66001503	66001503	66001503
2	Anode Rod	66001251	66001251	66001020	66001020	66001020	66001020
3	Burner Assembly	66001599	66001601	66001825	66001826	66001603	66001619
4	Burner Head**	66001494	66001494	66001510	66001570	66001494	66001494
5	Burner Orifice**	66001537	66001604	66001862	66001801	66001537	66001604
6	Burner Tube**	66001605	66001606	66001607	66001620	66001607	66001607
7	Dip Tube/Inlet Tube	66001829	66001829	66001649	66001649	66001829	66001829
*8	Dip Tube/Inlet Tube Gasket	66001812	66001812	66001812	66001812	66001812	66001812
9	Draft Hood	66001817	66001817	66001785	66001785	66001612	66001612
10	Drain Valve	66001015	66001015	66001016	66001016	66001015	66001015
11	Drain Valve Washer	66001021	66001021	N/A	N/A	66001021	66001021
12	Flue Baffle	66001815	66001815	66001807	66001807	66001831	66001831
13	Flue Restrictor	66001795	66001795	66001652	66001652	66001795	66001795
14	Gas Control Valve	66001183	66001823	66001575	66001575	66001183	66001823
15	Inner Door**	66001499	66001499	66001498	66001498	66001498	66001498
16	Inner Door Gasket	66001500	66001500	66001500	66001500	66001500	66001500
*17	Instruction Manual	66001861	66001861	66001861	66001861	66001861	66001861
18	Nipple w/Heat Traps	66001704	66001704	66001704	66001704	66001704	66001704
19	Outer Door	66001858	66001858	66001858	66001858	66001858	66001858
20	Outer Door Filler	66001810	66001810	N/A	N/A	66001616	66001616
21	Piezo Igniter w/Bracket	66001507	66001507	66001507	66001507	66001507	66001507
22	Pilot Assembly**	66001857	66001552	66001545	66001552	66001857	66001552
23	Pipe Insulation (2 ea.)	66001755	66001755	66001708	66001708	66001755	66001755
24	Secondary Anode Rod	66001859	66001859	66001859	66001859	66001859	66001859
25	T & P Insulation	66001709	66001709	66001709	66001709	66001709	66001709
26	Temperature-Pressure Relief Valve	66001700	66001700	66001700	66001700	66001700	66001700
27	Viewport Assembly	66001509	66001509	66001813	66001509	66001509	66001509

* Not Shown. ** Includes Inner Door Gasket.

Now that you have purchased this gas water heater, should a need ever exist for repair parts or service, simply call **Maytag Customer Service at 1-800-788-8899 for an authorized servicer**. Be sure to provide all pertinent facts when you call or visit.

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

The model number of this 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
- Serial Number
- Part Description
- Part Number

REPAIR PARTS LIST

MAYTAG/STATE PART NUMBER CONVERSION KEY

MAYTAG	STATE
66001011	9001609
66001012	9001608
66001013	ETC2X
66001014	ETC5X
66001015	9002401
66001016	9002402
66001021	9001584
66001020	9000734
66001105	9002769
66001183	9000249
66001251	9001829
66001269	9002277
66001494	9003385
66001498	9003398
66001499	9003400
66001500	9003401
66001503	9003406
66001503	9003406
66001507	9003410
66001509	9003414
66001510	9003421
66001537	9003492
66001538	9003493
66001541	9003496
66001545	9003521
66001552	9003544
66001570	9003636
66001575	9003638
66001576	9003639
66001598	9003515
66001599	9003537
66001600	9003569
66001601	9003606
66001602	9003516
66001603	9003517
66001604	9003536
66001605	9003519
66001606	9003657
66001607	9003520

MAYTAG	STATE
66001612	9003526
66001616	9003655
66001618	9003570
66001619	9003607
66001620	9003659
66001649	9003469
66001652	9003498
66001700	9003917
66001704	9003915
66001708	9003717
66001709	9003716
66001755	9003971
66001782	9003573
66001783	9004008
66001784	9004009
66001785	9004010
66001786	9003574
66001787	9004011
66001788	9004012
66001795	9003524
66001801	9003643
66001807	9003985
66001810	9003996
66001812	9001595
66001813	9003414
66001814	9004029
66001815	9003986
66001817	9003984
66001822	9003539
66001823	9004024
66001825	9003610
66001826	9003611
66001829	9004014
66001831	9004003
66001857	9003540
66001858	9004254
66001859	9004255
66001861	184445-001
66001862	9004256

WARRANTY

FULL ONE YEAR WARRANTY

For one year from the date of original retail purchase, any part which fails in normal home use will be repaired or replaced free of charge.

If a leak occurs in the tank, a new water heater of the closest capacity and quality then available, will be replaced free of charge.

The warranty of the replacement is the balance of the original water heater's warranty.

LIMITED PARTS WARRANTY

After the first year and through the twelfth year from the date of original retail purchase, any parts which fail due to a defect in materials or workmanship, will be replaced or repaired free of charge for the part itself, with the owner paying all other costs, including labor, mileage and transportation.

If the water heater is subjected to commercial, institutional, industrial or non-residential use, the above warranty coverage for parts that are proved to be defective in material or workmanship is effective for one year from the date of the original retail purchase.

The warranty of the replacement is the balance of the original water heater's warranty, or twelve months from the date of the part(s) purchase, whichever comes first.

This warranty is limited to the original owner of the water heater.

LIMITED TANK WARRANTY AGAINST LEAKS

After the first year and through the twelfth year from the date of original retail purchase, if a leak occurs in the tank, a new water heater of the closest capacity and quality then available, will be replaced free of charge for the water heater, with the owner paying all other costs, including labor, mileage and transportation.

If the water heater is subjected to commercial, institutional, industrial or non-residential use, the above warranty coverage for the tanks that are proved to be defective in material or workmanship is effective for two years from the date of the original retail purchase.

The warranty of the replacement is the balance of the original water heater's warranty.

Please note: The full and limited warranty applies only while this water heater is used in the United States of America.

This warranty is limited to the original owner of the water heater.

TO RECEIVE WARRANTY SERVICE

To locate an authorized service company in your area contact the Maytag dealer from whom your appliance was purchased; or call Maytag Customer Service at the number listed below. Should you not receive satisfactory warranty service, please call or write:

Maytag Customer Service
P.O. Box 2370
Cleveland, TN 37320-2370
U.S.A. 1-800-788-8899

When contacting Maytag Customer Service be sure to provide the model and serial number of your appliance, the name and address of the dealer from whom you purchased the appliance and the date of purchase.

MAYTAG WATER HEATERS ARE MANUFACTURED AND THIS WARRANTY IS PROVIDED BY A.O. SMITH CORPORATION. MAYTAG® IS A TRADEMARK OF THE MAYTAG CORPORATION AND IS USED UNDER LICENSE TO A.O. SMITH CORPORATION.