

Owner's Manual



POWER MISER™ 6 ELECTRIC WATER HEATER

FOR POTABLE WATER HEATING ONLY.
NOT SUITABLE FOR SPACE HEATING.

MODEL NO.


153.326362	30 Gal.
153.326363	30 Gal.
153.326462	40 Gal.
153.326463	40 Gal.
153.326564	55 Gal.
153.326565	55 Gal.
153.326662	50 Gal. Medium
153.326663	50 Gal. Medium
153.326762	40 Gal. Medium
153.326763	40 Gal. Medium
153.326862	50 Gal. Short
153.326863	50 Gal. Short



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



Certification applies to all residential electric water heaters with capacities of 20 to 120 Gallons. Input rating of 12kW or less.



! 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.


SAVE THIS MANUAL FOR FUTURE REFERENCE.





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

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, will 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, could 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.

The California Safe Drinking Water and Toxic Enforcement Act requires the Governor of California to publish a list of substances known to the State of California to cause cancer, birth defects, or other reproductive harm, and requires businesses to warn of potential exposure to such substances.


WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm. This appliance can cause low level exposure to some of the substances listed in the act.

IMPORTANT DEFINITIONS

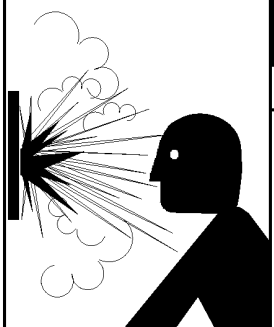
- **Sears Service Center:** The Sears Service Center has the ability equivalent to a licensed tradesman in the fields of plumbing and electrical work including a thorough understanding of the requirements of the National Electrical Code as it relates to the installation of electric water heaters. The Sears 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.




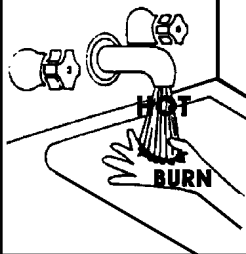
GENERAL SAFETY

	⚠ WARNING
	<p>Read and understand instruction manual and safety messages before installing, operating or servicing this water heater.</p> <p>Failure to follow instructions and safety messages could result in death or serious injury.</p> <p>Instruction manual must remain with water heater.</p>

CAUTION
Improper installation and use may result in property damage.
<ul style="list-style-type: none"> • Do not operate water heater if flood damaged. • Inspect and replace the anode as needed. • Install in location with drainage. • Fill tank with water before operation. • Be alert for thermal expansion. <p>Refer to instruction manual for installation and service.</p>

	⚠ WARNING
	Explosion Hazard
<ul style="list-style-type: none"> • Overheated water can cause water tank explosion. • Properly sized temperature and pressure relief valve must be installed in opening provided. 	

	⚠ WARNING
	<ul style="list-style-type: none"> • Before removing any access panels or servicing the water heater, make sure the electrical supply to the water heater is turned "OFF". • Failure to do this could result in death, serious bodily injury, or property damage.

⚠ 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>
	



⚠ WARNING		
Fire Hazard / Electric Shock Hazard		
	<ul style="list-style-type: none"> • Do not use this water heater with any voltage other than shown on the model rating plate. • Failure to use the correct voltage shown on the model rating plate could result in death, serious bodily injury, or property damage. 	

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INTRODUCTION

Thank You for purchasing a Sears 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 the local Sears Service Center or any Sears store. They will arrange for prompt, quality installation by Sears authorized contractors.

Abbreviations Found In This Instruction Manual:

UL – Underwriters Laboratories Inc.
 NEC – National Electrical Code
 ANSI – American National Standards Institute
 AHRI - Air Conditioning, Heating and Refrigeration Institute

- Read the *General Safety* 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 this electric water heater. It also contains warnings throughout 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 THIS ENTIRE MANUAL BEFORE ATTEMPTING TO INSTALL OR OPERATE THE WATER HEATER.**

- The installation must conform with the instructions in this manual; electric company rules; and Local Codes, or in the absence of Local Codes, with the current edition of the NEC - National Electrical Code, NFPA 70. This publication is available from your local government or public library or electric company or by writing Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062.
- If after reading this manual you have any questions or do not understand any portion of the instructions, call Sears Service Center.
- Carefully plan the place where you are going to put the water heater. Correct electrical wiring and connections are very important in preventing death from possible electrical shock and fires.

Examine the location to ensure the water heater complies with the *Facts to Consider About the Location* section.

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 California's Office of the State Architect, 1102 Q Street, Suite 5100, Sacramento, CA 95811. Instructions can also be downloaded to your computer at www.dsa.dgs.ca.gov/Pubs.

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.

PRODUCT SPECIFICATIONS

MODEL NUMBER	TANK CAPACITY IN GALLONS	DIMENSIONS IN INCHES (mm)		RECOVERY RATE GALS.PER HOUR @90°F Rise	ELEMENT WATTAGE @ 240 VOLTS		MINIMUM WIRE SIZE* (GAUGE)	MAXIMUM FUSE OR CIRCUIT BREAKER SIZE (AMPS)
		DIA.	HEIGHT		UPPER	LOWER		
153.326362	30	18.0 (457)	46.5 (1181)	17.3	3800	3800	12	20
153.326363				25.0	3800	5500	10	30
153.326462	40	18.0 (457)	59.5 (1511)	17.3	3800	3800	12	20
153.326463				25.0	3800	5500	10	30
153.326564	55	20.0 (508)	60.25 (1530)	17.3	3800	3800	12	20
153.326565				25.0	3800	5500	10	30
153.326662	50	23.0 (584)	49.0 (1245)	17.3	3800	3800	12	20
153.326663				25.0	3800	5500	10	30
153.326762	40	20.5 (521)	44.0 (1118)	17.3	3800	3800	12	20
153.326763				25.0	3800	5500	10	30
153.326862	50	26.5 (673)	34.0 (864)	17.3	3800	3800	12	20
153.326863				25.0	3800	5500	10	30

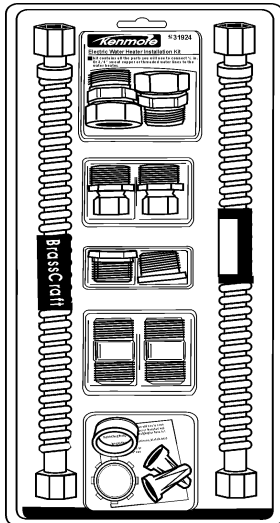
* Wiring size based on standard 60°C copper wire. If distance from fuse box to water heater is more than 90 feet, refer to your local electrical code.



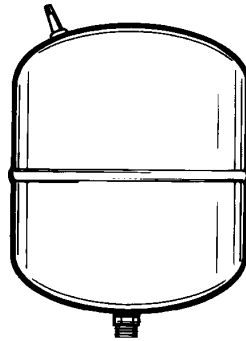
MATERIALS AND BASIC TOOLS NEEDED

Materials Needed

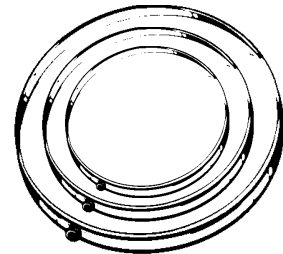
To simplify the installation Sears has available the installation parts shown below. You may or may not need all of these materials, depending on your type of installation.



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



EXPANSION TANKS FOR THERMAL EXPANSION CONDITIONS AVAILABLE IN 2 GALLONS, AND 5 GALLONS CAPACITY THROUGH LOCAL SEARS STORE OR SERVICE CENTER.



METAL DRAIN PANS AVAILABLE IN 20" DIAMETER FOR WATER HEATERS HAVING A DIAMETER 18" OR LESS, 24" DIAMETER FOR WATER HEATERS HAVING A DIAMETER 22" OR LESS AND AVAILABLE IN 28" DIAMETER FOR WATER HEATERS HAVING A DIAMETER 26" OR LESS.

Basic Tools

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

- Pipe Wrench (2)
- Screwdriver
- 6 Foot Tape or Folding Rule
- Garden Hose
- Drill
- Pipe Dope or Teflon Tape



ROLL OF TEFLON TAPE (USE ON WATER CONNECTIONS)



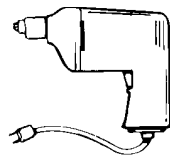
PIPE DOPE (SQUEEZE TUBE) USE FOR WATER CONNECTIONS



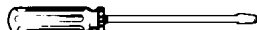
GARDEN HOSE



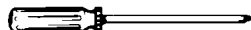
6 FOOT TAPE



DRILL



SLOT-HEAD SCREWDRIVER



PHILLIPS SCREWDRIVER



PIPE WRENCH

Additional Tools Needed When Sweat Soldering

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



TUBING CUTTER



HACKSAW



ROLL OF EMERY CLOTH



ROLL OF LEAD-FREE SOFT SOLDER



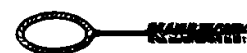
SOLDER FLUX



PROPANE TORCH



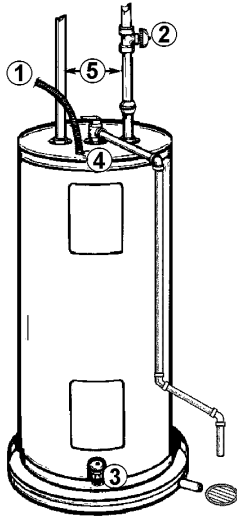
3/4" (19 mm) WIRE BRUSH



1/2" (13 mm) WIRE BRUSH

INSTALLATION INSTRUCTIONS

Removing the Old Water Heater



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

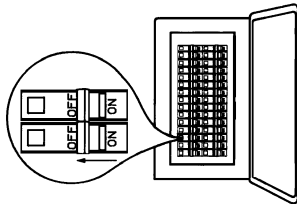


FIGURE 1.

2. Open a nearby hot water faucet until the water is no longer hot. When the water has cooled, turn "OFF" the water supply to the water heater at the water shut-off valve or water meter.



FIGURE 2.

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

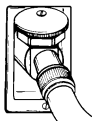


FIGURE 3.

⚠ DANGER

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

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.

4. Check again to make sure the electrical supply is turned "OFF" to the water heater. Then unplug the water heater (cord set) or disconnect the electrical supply connection from the water heater junction box.

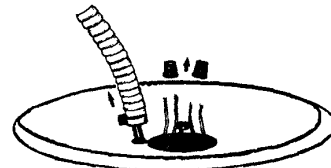


FIGURE 4.

- 5a. 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 the pipes too short. Additional cuts can be made later if necessary. Disconnect the temperature-pressure relief valve drain line. When the water heater is drained, disconnect the hose from the drain valve. Close the drain valve. The water heater is now completely disconnected and ready to be removed.

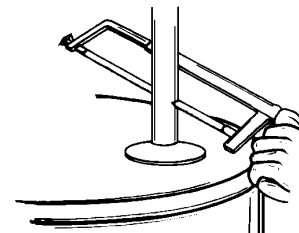


FIGURE 5a.

- 5b. 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.

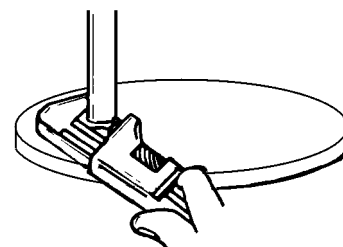


FIGURE 5b.

CAUTION

Mineral Buildup or Sediment May Accumulate

- This causes the water heater to become much heavier than normal.
- If spilled, could cause staining.

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.

Facts to Consider About the Location

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

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

- The location selected should be indoors as close to and as centralized with the water piping system as possible. This water heater, as well as all water heaters, will eventually leak. Do not install without adequate drainage provisions so water flow will not cause damage.

CAUTION

Property Damage Hazard

- All water heaters eventually leak
- Do not install without adequate drainage.

WATER HEATERS EVENTUALLY LEAK: Installation of the water heater must be accomplished in such a manner that if the tank or any connections should leak, the flow of water will not cause damage to the structure. When such locations cannot be avoided, a suitable metal drain pan should be installed under the water heater. Drain pans are available at your local Sears stores. Such drain pans must be piped to an adequate drain.

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 metal 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 metal 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 metal drain pan that trigger an alarm or turn off the incoming water to the water heater when leakage is detected.

- Sensors mounted in the metal 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.

CAUTION

Installations in Residential Garages

- Water heater must be located in a protective area.

INSTALLATION IN RESIDENTIAL GARAGES: The water heater must be located and/or protected so it is not subject to physical damage by a moving vehicle.

- The location selection must provide adequate clearances for servicing and proper operation of the water heater.

Insulation Blankets

Insulation blankets are available to the general public for external use on electric water heaters but are not necessary with this product. The purpose of an insulation blanket is to reduce the standby heat loss encountered with storage tank heaters. Your 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 below. Failure to follow these instructions can result in fire, serious personal injury, or death.

- **Do not** cover the temperature and pressure relief (T & P) valve with an insulation blanket.
- **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 for placement on the blanket directly over the existing labels.

Facts to Consider About the Convertible Lower Element


The Upper Element (if a double element model) is a conventional 3800 watt element which only operates at its rated wattage on 240 volts. (See rating plate on the water heater).

The Lower Element of the water heater can be converted from operation at 3800 watts to 5500 watts on a 240 volt system.

Read and follow water heater warnings and instructions. If after reading these instructions in this manual, you do not understand any portion, call Sears Service Center.

⚠ WARNING

Fire Hazard / Electric Shock Hazard



- Do not use this water heater with any voltage other than shown on the model rating plate.
- Failure to use the correct voltage shown on the model rating plate could result in death, serious bodily injury, or property damage.

Before making the conversion to 5500 watts, make sure that the (1) power supply is 240 volts, (2) the wiring is 10 gauge AWG @ Type TW, 60°C or equivalent, and (3) the circuit breakers or fusing are capable of 30 amp loading. Also, the installation must conform with this manual, local codes and electric utility rules. Failure to comply can result in DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.


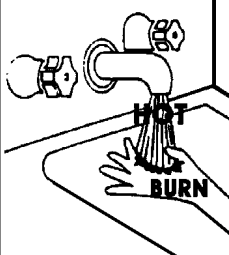
ELECTRIC WATER HEATER					LISTED 932N
MODEL NUMBER	CAPACITY U.S. GAL.	SERIAL NUMBER			
FACTORY EQUIPPED WITH					
UPPER ELEMENT WATTS	LOWER ELEMENT WATTS	MAXIMUM WATTS	VOLTS A.C. ONLY	CHECK HERE IF INSTALLED AS FACTORY EQUIPPED	MAXIMUM WORKING PRESSURE P.S.I.
OPTIONAL WATTAGE					
UPPER ELEMENT WATTS	LOWER ELEMENT WATTS	MAXIMUM WATTS	CHECK HERE IF CONVERTED	WARNING SEE CONVERSION INSTRUCTION	

FIGURE 6.

NOTE: Whether or not the element conversion is made the model rating plate must be marked. Using a hard point ink pen, check the appropriate block within the model rating plate, which is located adjacent to the lower access panel.

Water Piping

⚠ 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.

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

See Figure 7 (below) for mixing valve usage.

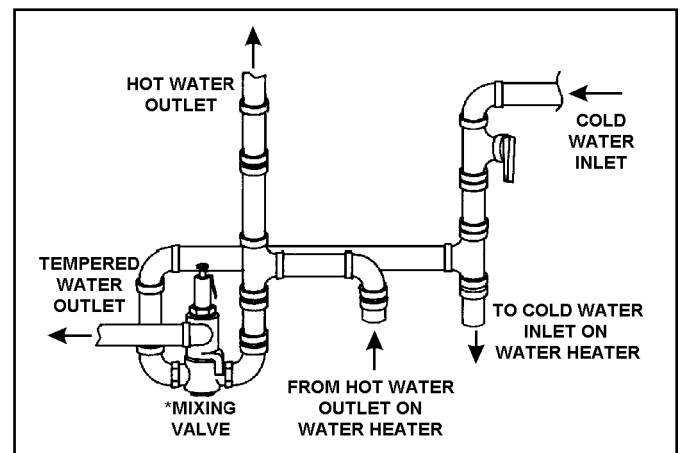


FIGURE 7.

Figure 8 shows the attachment of the water piping to the water heater. The water heater is equipped with 3/4" water connections.

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

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

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 service agency.

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.

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

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

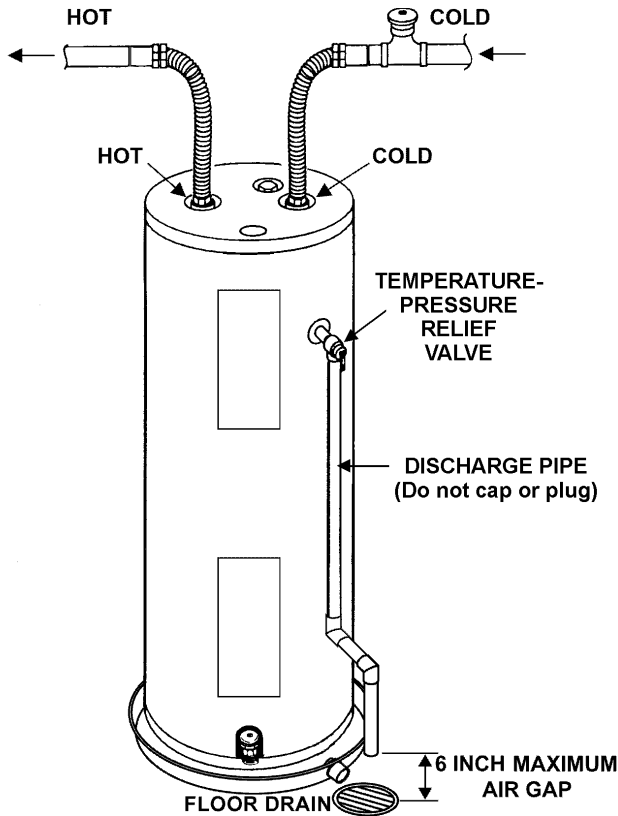


FIGURE 8.

T & P Valve and Pipe Insulation

1. Locate the temperature and pressure relief valve on the water heater (also known as a T&P relief valve). See Figure 9.
2. Locate the slit running the length of the T&P relief valve insulation.
3. Spread the slit open and fit the insulation over the T&P relief

valve. See Figure 9. Apply gentle pressure to the insulation to ensure that it is fully seated on the T&P Relief Valve. Once seated, secure the insulation with duct tape, electrical tape, or equivalent. **IMPORTANT:** The insulation and tape must not block the discharge opening or hinder access to the manual relief lever (Figure 9). Ensure a discharge pipe is installed into the T&P valve discharge opening per the instructions in this manual.

4. Locate the hot water (outlet) & cold water (inlet) pipes to the water heater.
5. Locate the slit running the length of a section of pipe insulation.
6. Spread the slit open and slip the insulation over the cold water (inlet) pipe. Apply gentle pressure along the length of the insulation to ensure that it is fully seated around the pipe. Also, ensure that the base of the insulation is flush with the water heater. Once seated, secure the insulation with duct tape, electrical tape, or equivalent.
7. Repeat steps 5 and 6 for the hot water (outlet) pipe.
8. Add additional sections of pipe insulation as needed.

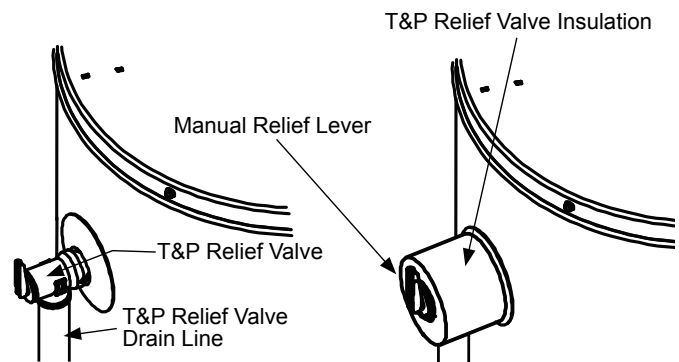


FIGURE 9.

Temperature-Pressure Relief Valve

	⚠ WARNING
	Explosion Hazard
	<ul style="list-style-type: none"> • Temperature-pressure relief valve must comply with ANSI Z21.22 CSA 4.4 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 for Hot Water Supply Systems, ANSI Z21.22 • CSA 4.4, 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 electric heaters, watts x 3.412 equals Btu/hr input rate)

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

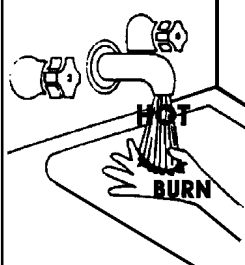
The temperature-pressure relief valve must be installed directly into the fitting of the water heater designed for the relief valve. Position the valve downward and provide tubing so that any discharge will exit only within 6 inches (15.2 cm) above, or at any distance below the structural floor. Be certain 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.

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

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 (153 mm) air gap is provided. To prevent bodily injury, hazard to life, or property damage, the relief valve must be allowed to discharge water in quantities should circumstances demand. If the discharge pipe is not connected to a drain or other suitable means, the water flow may cause property damage.

The Discharge Pipe:

- 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 a maximum of six inches (15.2 cm) above a floor drain or external to the building. In cold climates, it is recommended that the discharge pipe be terminated at an adequate drain inside the building.
- 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.

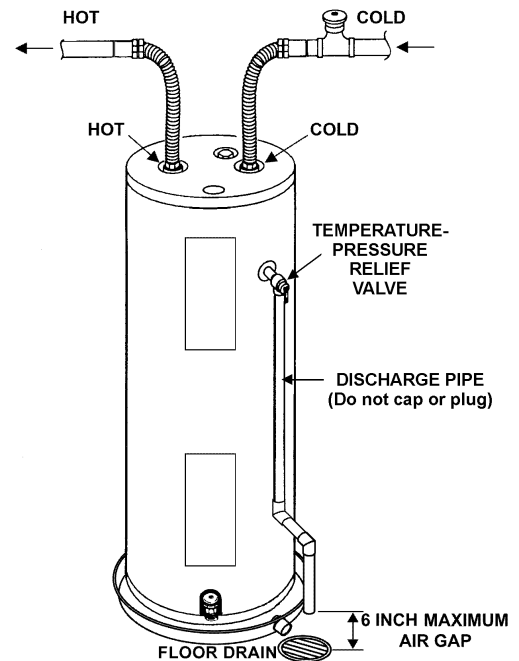


FIGURE 10.

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 and heating element, the tank must be filled with water. Water must flow from the hot water faucet before turning "ON" power.

To fill the water heater with water:

1. Close the water heater drain valve by turning the handle to the right (clockwise). The drain valve is located on the lower front of the water heater.

2. 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.

3. To ensure 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.

4. Check all new water piping for leaks. Repair as needed.



Converting the Lower Element

These instructions only cover the conversion of the convertible element, read this entire manual before attempting to install or operate the water heater. The water heater is factory set to operate at 3800 watts. The lower element can be converted to operate at 5500 watts. Refer to *Facts to Consider About the Convertible Lower Element* section.

The Upper Element, (if double element model) is a conventional 3800 watt element which only operates at its rated wattage on 240 volts. (See rating plate on the water heater.)

The lower Element of the water heater can be converted from operation at 3800 watts to 5500 watts on a 240 volt system.

If after reading these instructions and this manual, if you do not understand any portion call Sears Service Center.

⚠ WARNING	
Fire Hazard / Electric Shock Hazard	
	<ul style="list-style-type: none"> • Do not use this water heater with any voltage other than shown on the model rating plate.
	<ul style="list-style-type: none"> • Failure to use the correct voltage shown on the model rating plate could result in death, serious bodily injury, or property damage.

Before making the conversion to 5500 watts, make sure that the (1) power supply is 240 volts, (2) the wiring is 10 gauge AWG @ Type TW, 60°C or equivalent, and (3) the circuit breakers or fusing are capable of 30 amp loading. Also, the installation must conform with this manual, local codes and electric utility rules. Failure to comply can result in DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.

NOTE: Whether or not the element conversion is made the model rating plate must be marked. Using a hard point ink pen, check the appropriate block within the model rating plate, which is located adjacent to the lower access panel.


ELECTRIC WATER HEATER			LISTED 932N
MODEL NUMBER	CAPACITY U.S. GAL.	SERIAL NUMBER	
FACTORY EQUIPPED WITH			
UPPER ELEMENT WATTS	LOWER ELEMENT WATTS	MAXIMUM WATTS	CHECK HERE IF INSTALLED AS FACTORY EQUIPPED
			MAXIMUM WORKING PRESSURE P.S.I.
OPTIONAL WATTAGE			
UPPER ELEMENT WATTS	LOWER ELEMENT WATTS	MAXIMUM WATTS	CHECK HERE IF CONVERTED
			WARNING SEE CONVERSION INSTRUCTION

FIGURE 11.

Necessary element conversion parts are located in a small bag contained within the electrical junction box on top of the water heater.

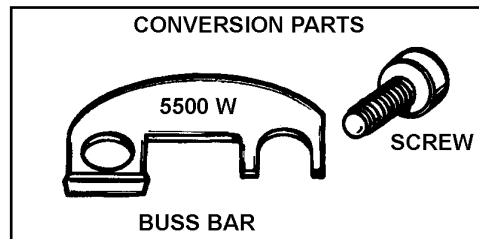


FIGURE 12.

1. Before beginning the conversion turn "OFF" electric power supply to the water heater.

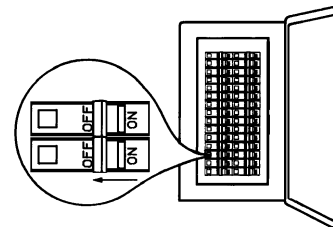


FIGURE 13.

2. The convertible element is located behind the lower access panel of the water heater. Remove the screw securing the access panel, and remove panel.

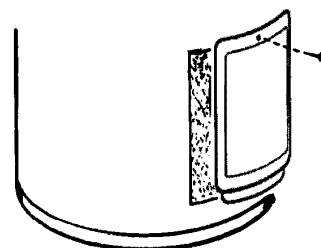


FIGURE 14.

3. Fold the insulation back to expose the terminal cover.

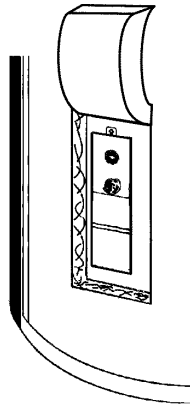


FIGURE 15.

4. Lower Element: Lift out the tab as shown to unclip the terminal cover from the thermostat. The terminal cover can now be removed from the thermostat.

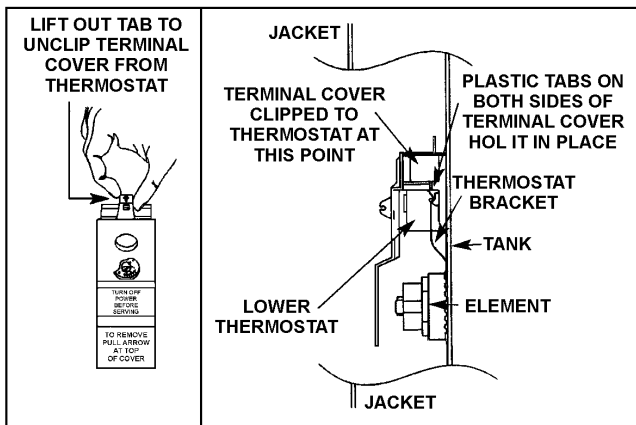


FIGURE 16.

5. Remove the screws from terminal 2 of the element, and move the looped end of the wire aside.

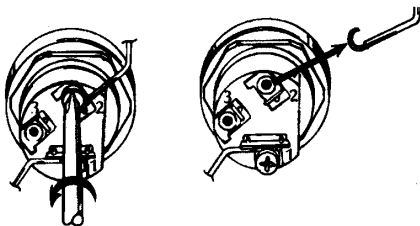


FIGURE 17.

6. The buss bar is labeled 5500 W. Place the buss bar over terminals 2 and 3 with the 5500 W visible. Install the extra screw provided into terminal 3.

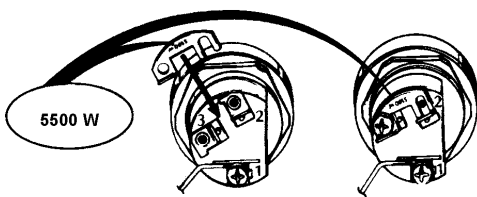


FIGURE 18.

7. The wire removed from terminal 2 has a looped end. It must remain looped and now be placed (as shown) on top of the buss bar, over the opening of terminal 2, and secured using the remaining screw.

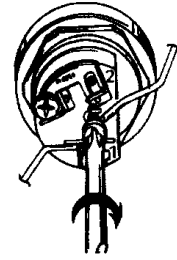


FIGURE 19.

8. Tighten terminals 2 and 3 to ensure proper electrical connection.

	⚠ WARNING
	Fire and Explosion Hazard <ul style="list-style-type: none"> Failure to tighten screws can cause a fire. Failure to do this could result in death, serious bodily injury, or property damage.

Failure to tighten terminal screws can cause a fire which can result in DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.

9. Replace terminal cover on thermostat making sure that the locking tabs on the terminal cover are in place.

	⚠ WARNING
	Fire and Explosion Hazard <ul style="list-style-type: none"> Thermostat must be flush against the tank. Make sure terminal cover is in place and the insulation replaced. Failure to do this could result in death, serious bodily injury, or property damage.

Make sure the thermostat is flush against the tank, the terminal cover is in place, and the insulation is replaced. Failure to do so can result in DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.

10. Replace the insulation so that it completely covers the thermostat and element.

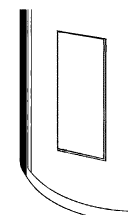


FIGURE 20.

11. Replace the access panel.

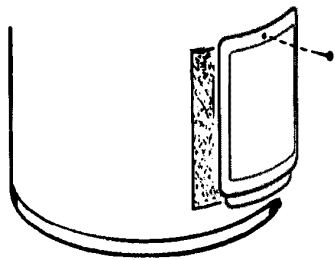


FIGURE 21.

12. Complete wiring to the water heater, or if completed, turn “ON” electric power to the water heater after filling the tank with water.

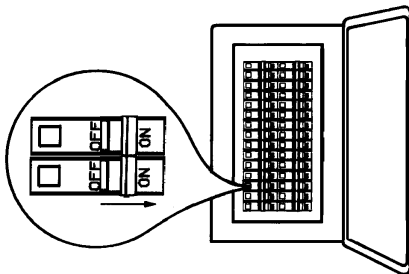


FIGURE 22.

CAUTION

Improper installation and use may result in property damage.

- Fill tank with water before operation.

Never use this water heater unless it is completely full of water. To prevent damage to the tank and heating element, the tank must be filled with water. Water must flow from the hot water faucet before turning “ON” power.

Wiring

You must provide all wiring of the proper size outside of the water heater. You must obey local codes and electric company requirements when you install this wiring.

If you are not familiar with electric codes and practices, or if you have any doubt, even the slightest doubt, in your ability to connect the wiring to this water heater, obtain the service of a competent electrician. Contact your Sears salesperson to arrange for a professional electrician.

WATER HEATERS EQUIPPED FOR ONE VOLTAGE ONLY: This water heater is equipped for one type voltage only. Check the rating plate near the bottom access panel for the correct voltage. **DO NOT** use this water heater with any voltage other than the one shown on the model rating plate. Failure to use the correct voltage can cause problems which can result in **DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.** If you have any questions or doubts consult your electric company.

⚠ WARNING

Fire Hazard / Electric Shock Hazard

A flame icon above a hand icon with a lightning bolt striking it.

- Do not use this water heater with any voltage other than shown on the model rating plate.
- Failure to use the correct voltage shown on the model rating plate could result in death, serious bodily injury, or property damage.

If wiring from your fuse box or circuit breaker box was aluminum for your old water heater, replace it with copper wire. If you wish to reuse the existing aluminum wire, have the connection at the water heater made by a competent electrician. Contact your Sears salesperson to arrange for a professional electrician.

1. Provide a way to easily shut off the electric power when working on the water heater. This could be with a circuit breaker or fuse block in the entrance box or a separate disconnect switch.
2. Install and connect a circuit directly from the main fuse or circuit breaker box. This circuit must be the right size and have its own fuse or circuit breaker. Refer to the chart in the *Product Specifications* section for the correct size wire and fuse or circuit breaker.
3. If metal conduit is used for the grounding conductor:
 - a. The grounding electrode conductor shall be of copper, aluminum, or copperclad aluminum. The material shall be of one continuous length without a splice or joint.
 - b. Rigid metal conduit, intermediate metal conduit, or electrical metallic tubing may be used for the grounding means if conduit or tubing is terminated in fittings approved for grounding.
 - c. Flexible metal conduit or flexible metallic tubing shall be permitted for grounding if all the following conditions are met:
 - The length in any ground return path does not exceed 6 feet (1.82 m).
 - The circuit conductors contained therein are protected by overcurrent devices rated at 20 amperes or less.
 - The conduit or tubing is terminated in fittings approved for grounding.
4. A standard 1/2" conduit opening has been made in the water heater junction box for the conduit connection.

For complete grounding details and all allowable exceptions, refer to the current edition of the NEC - National Electrical Code NFPA 70.

5. Wiring Diagrams (see *Wiring Diagrams* section) have been supplied showing the two most common types of connections between the water heater and the power supply. You can easily see which type connection you have by removing the junction box cover on top of the water heater.
 - **Two Wire Connection Diagrams:** is the most common requiring you to simply connect red to red, black to black, and the ground wire to the green ground screw in the junction box of the water heater.
 - **Three Wire Connection Diagram:** is used when you are connecting the water heater to a power supply that has a “Time Clock” or “Off Peak” meter. To make these connections refer to block 1 or 2 in this wiring diagram for the type of system you have.
6. Use wire nuts and connect the power supply wiring to the wires inside the water heater’s junction box.
7. The water heater must be electrically “grounded” by the installer. A green ground screw has been provided on the water heater’s junction box. Connect ground wire to this location.
8. Replace the wiring junction cover using the screw provided.

NOTE: If you have purchased a three wire connection water heater but you are not on a “Time Clock” or “Off Peak” meter and have a standard two wire connection power supply, simply follow the connection diagram in block 3 of the three wire connection diagram.

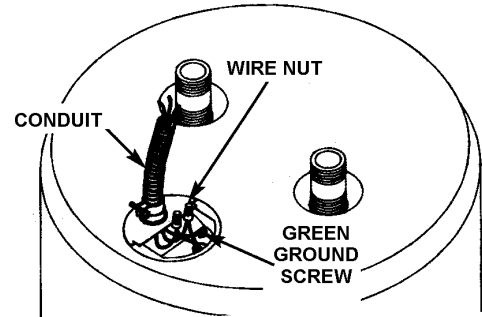


FIGURE 23.

STANDARD WIRING FOR 2 WIRE LEAD WATER HEATERS
NON-SIMULTANEOUS OPERATION 240 VOLT DOUBLE ELEMENT

A6



⚠ WARNING

- Before removing any access panels or servicing the water heater, make sure the electrical supply to the water heater is turned "OFF".
- Failure to do this could result in death, serious bodily injury, or property damage.

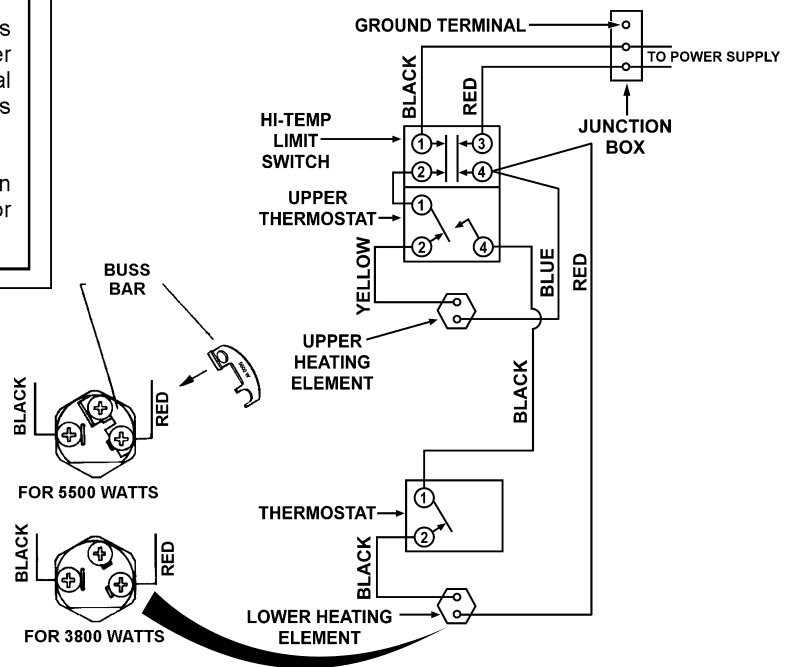


FIGURE 24.

WIRING FOR 3 WIRE LEAD WATER HEATERS NON-SIMULTANEOUS OPERATION 240 VOLT DOUBLE ELEMENT

*NOTE: Some lower Hi-Temp Limit Switches may have 4 terminals. Use only the 2 terminals on left.

THREE TYPES OF FIELD CONNECTIONS YOU MAY HAVE

A9

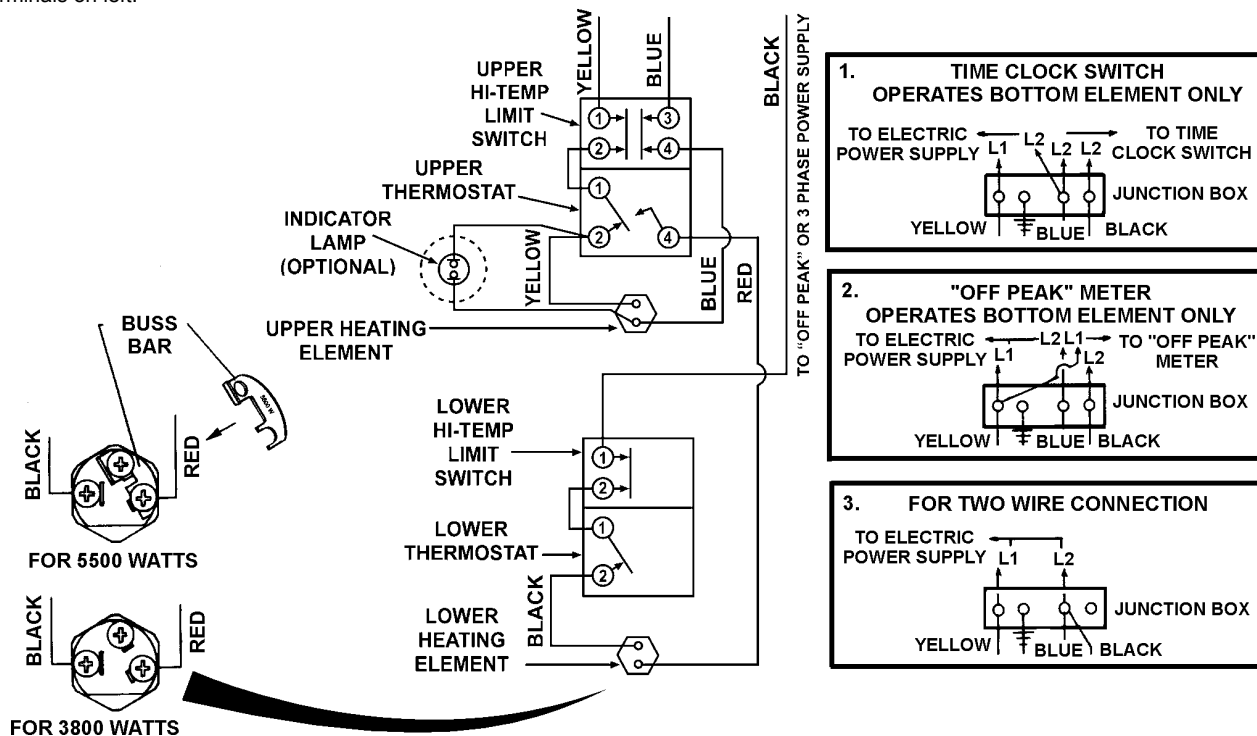
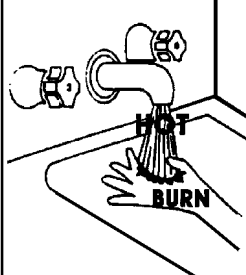


FIGURE 25.



SERVICE AND ADJUSTMENT

Temperature Regulation



⚠ 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.

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

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.

Thermostats

The thermostats of this water heater have been factory set at a position which approximates 120°F (49°C), to reduce the risk of scald injury.

The upper thermostat is factory set at a position which approximates 120°F (49°C), and is adjustable if a different water temperature is desired. Read all warnings in this manual and on the water heating before proceeding.

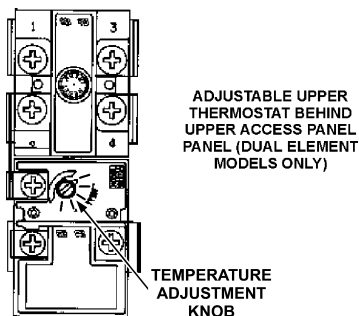


FIGURE 26.

The lower thermostat is factory set at a position which approximates 120°F (49°C), and is adjustable if a different water temperature is desired. Read all warnings in this manual and on the water heating before proceeding.

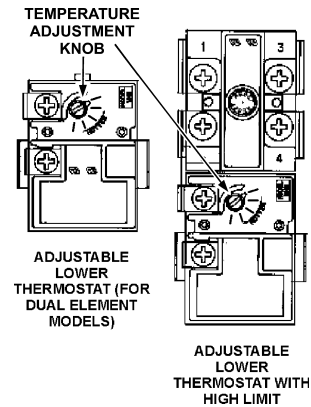


FIGURE 27.

Temperature Settings

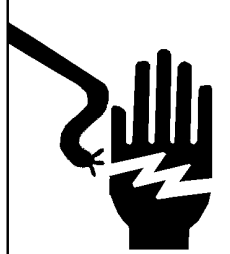
NOTE: Water temperature range of 120°—140°F (49°-60°C) recommended by most dishwasher manufacturers.

TABLE 1: WATER TEMPERATURES		
Water Temperature °F	Time for 1st Degree Burn (Less Severe Burns)	Time for Permanent Burns 2nd & 3rd Degree (Most Severe Burns)
110	(normal shower temp.)	
116	(pain threshold)	
116	35 minutes	45 minutes
122	1 minute	5 minutes
131	5 seconds	25 seconds
140	2 seconds	5 seconds
149	1 second	2 seconds
154	instantaneous	1 second

(U.S. Government Memorandum, C.P.S.C., Peter L. Armstrong, Sept. 15, 1978)

Upper and Lower Thermostat Adjustments

(Refer to thermostat illustrations under *Thermostats* section)




⚠ WARNING

- Before removing any access panels or servicing the water heater, make sure the electrical supply to the water heater is turned "OFF".
- Failure to do this could result in death, serious bodily injury, or property damage.

NOTE: It is not necessary to adjust the upper thermostat. However, if it is adjusted above the factory set point of 120°F (49°C), it is recommended that it not be set higher than the lower thermostat setting.

The upper and lower thermostats are adjustable if a different water temperature is desired. Read all warnings in the *Temperature-Regulation* section before proceeding.

1. Turn "OFF" the electric power to the water heater at the junction box.



⚠ WARNING

- Before removing any access panels or servicing the water heater, make sure the electrical supply to the water heater is turned "OFF".
- Failure to do this could result in death, serious bodily injury, or property damage.

2. Take off the upper and/or lower access panel(s), then fold the insulation back to expose the thermostat.
3. The slotted adjustment (using a screwdriver) can be turned clockwise (↻) to increase the temperature setting or counter clockwise (↻) to decrease the temperature setting.
4. Replace the insulation and access panel.
5. Turn "ON" the power supply.

Anode Rod Inspection

CAUTION

Property Damage Hazard

- Avoid water heater damage.
- Inspection and replacement of anode 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.

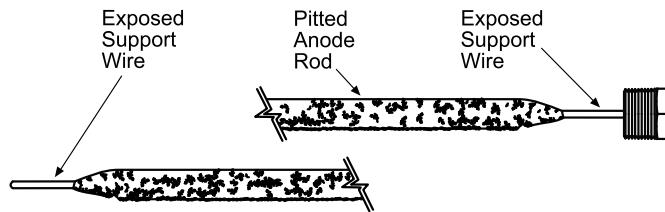


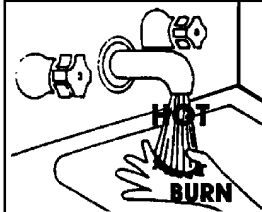
FIGURE 28A.

Anode deterioration depends on the 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 calling Sears Service Center. 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.



⚠ DANGER

- Burn hazard
- Hot water discharge.
- Keep clear of relief valve discharge outlet.

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 property damage or bodily injury. The water may be extremely hot.

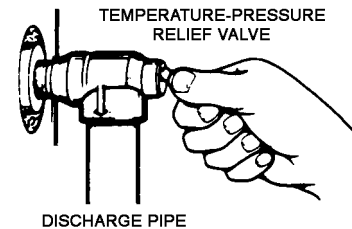


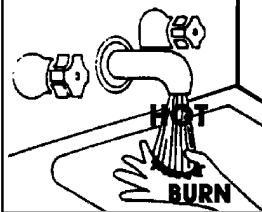
FIGURE 28B.

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.

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

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

Draining and Flushing

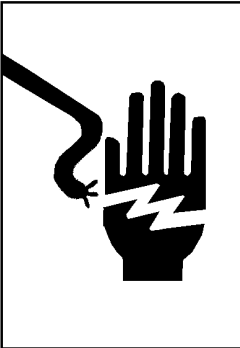


⚠ DANGER

- 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.

	<h2>⚠ WARNING</h2>
	<ul style="list-style-type: none"> • Before removing any access panels or servicing the water heater, make sure the electrical supply to the water heater is turned "OFF". • Failure to do this could result in death, serious bodily injury, or property damage.

1. Before beginning, turn "OFF" the electric power supply to the water heater.
2. Open a nearby hot water faucet until the water is no longer hot.
3. Close the cold water inlet valve.
4. Connect a hose to the drain valve and terminate it to an adequate drain or external to the building.
5. Open the water heater drain valve and allow all of the water to drain from the tank. Flush the tank with water as needed to remove sediment.

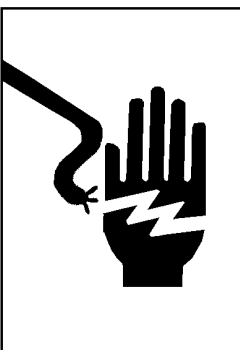
NOTE: If the water heater is going to be shut down and drained for an extended period, the drain valve should be left open with hose connected allowing water to terminate to an adequate drain.

6. Close the drain valve, refill the tank, and restart the heater as directed in this manual.

<h2>CAUTION</h2>
<p>Improper installation and use may result in property damage.</p>
<ul style="list-style-type: none"> • Fill tank with water before operation.

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

Thermostat Removal/Replacement

	<h2>⚠ WARNING</h2>
	<ul style="list-style-type: none"> • Before removing any access panels or servicing the water heater, make sure the electrical supply to the water heater is turned "OFF". • Failure to do this could result in death, serious bodily injury, or property damage.

1. Turn "OFF" the electrical power to the water heater at the junction box.
2. Remove the access panel, then fold the insulation back to expose the thermostat.
3. Lift out the tab as shown below to unclip the terminal cover from the thermostat. The terminal cover can now be removed from the thermostat.

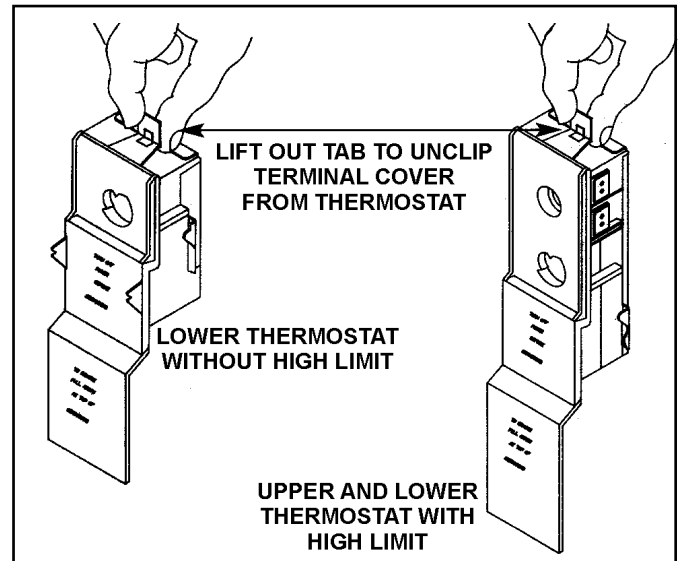


FIGURE 29.

4. Disconnect wires from the thermostat.
 5. Remove the thermostat from behind the thermostat bracket.
 6. Place the new thermostat in the bracket making sure it fits firmly against the tank.
 7. Attach the wires to the new thermostat.
- NOTE: Some of the terminals may require straight-in wiring through an eye-opening. If wires are now looped, recut and strip wire 3/8" to a straight length and insert.**
8. Put plastic terminal cover back in place.
 9. Replace the insulation to cover the thermostat.
 10. Replace access panel, then turn the electric power on.

Element Cleaning/Replacement

NOTE: These instructions are written for element cleaning and element replacement for the lower element. If it is necessary to clean or replace the upper element, then repeat these instructions.

To remove the element from your tank in order to clean or replace it:



⚠ WARNING

- Before removing any access panels or servicing the water heater, make sure the electrical supply to the water heater is turned "OFF".
- Failure to do this could result in death, serious bodily injury, or property damage.

1. Before beginning, turn "OFF" the electric power supply to the water heater. After the power has been turned off, open a nearby hot water faucet until the water is no longer hot.

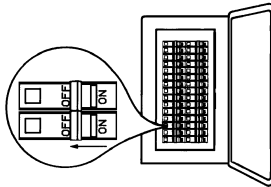


FIGURE 30.

2. Turn off the water supply to the water heater at the water Shut-off valve or water meter.



FIGURE 31.

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

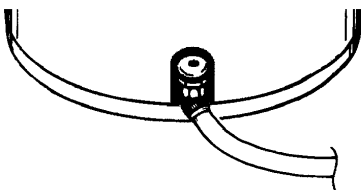
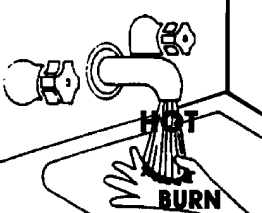


FIGURE 32.

⚠ DANGER



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

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.

4. Remove the screw securing the access panel, then remove the panel.

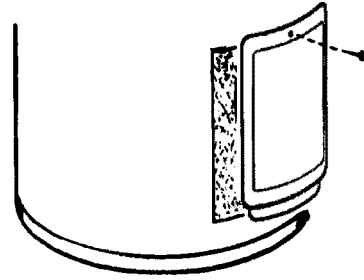


FIGURE 33.

5. Fold the insulation back to expose the thermostat.

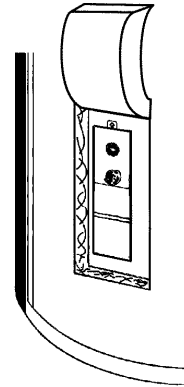


FIGURE 34.

6. Lift out the tab as shown to unclip the terminal cover from the thermostat. The terminal cover can now be removed from the thermostat.

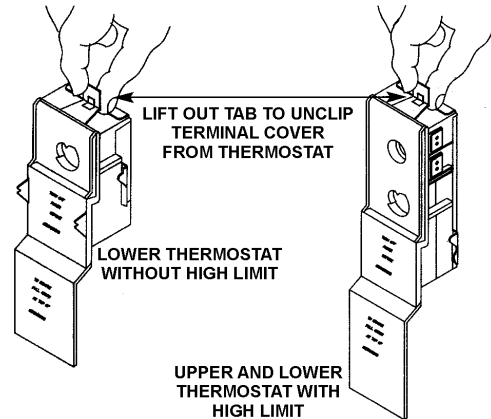


FIGURE 35.

7. Disconnect the two wires on the element and unscrew the old element from the tank.

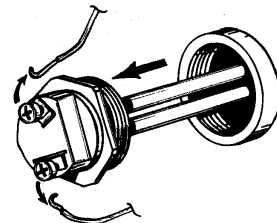



FIGURE 36.



8. Clean the area around the element opening. Remove any sediment from or around the element opening, inside the tank.
9. If you are cleaning the element you have removed, do so by scraping or soaking in vinegar or a de-liming solution.

⚠ WARNING	
	Fire Hazard and Electric Shock Hazard
	<ul style="list-style-type: none"> • Do not use replacement elements with any voltage other than shown on the model rating plate. • Failure to use the correct voltage shown on the model rating plate could result in death, serious bodily injury, or property damage.

Replacement elements must (1) be the same voltage and (2) no greater wattage than listed on the model rating plate affixed to the water heater.

10. A new gasket should be used in all cases to prevent a possible water leak. (See Element Gasket in the *Repair Parts List Chart*). Place the new element gasket on the thread side of the cleaned or new element and screw into tank, securing tightly using an element wrench.

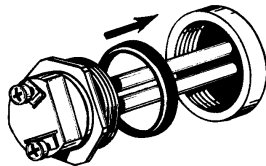


FIGURE 37.

11. 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.
12. 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.

13. 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.

CAUTION
Improper installation and use may result in property damage.
<ul style="list-style-type: none"> • Fill tank with water before operation.

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

14. Check element for water leaks. If leakage occurs, tighten element or repeat steps 2 and 3, remove element and reposition gasket. Then repeat steps 10 through 14.
15. Reconnect the two wires to the element and then check to make sure the thermostat remains firmly against the surface of the tank.



FIGURE 38.

16. Replace terminal cover on thermostat making sure that the locking tabs on the terminal cover are in place.

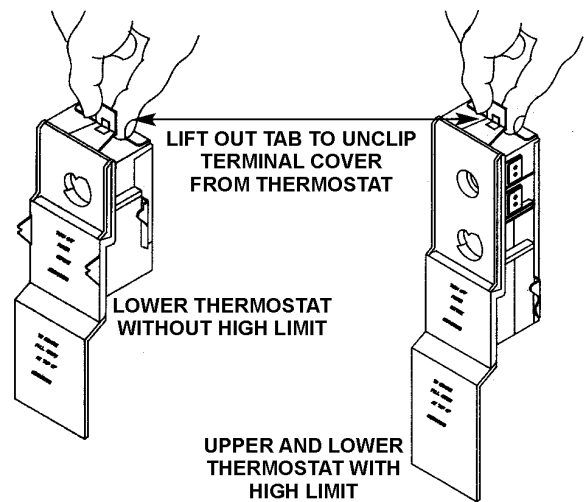


FIGURE 39.

17. Replace the insulation so that it completely covers the thermostat and element.

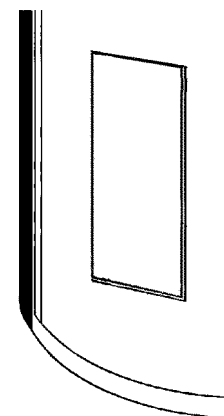


FIGURE 40.

18. Replace access panel.

19. Turn "ON" electric power to water heater.

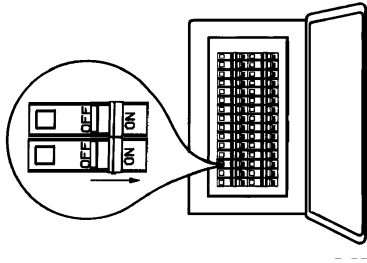
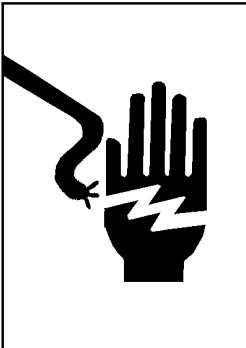


FIGURE 41.

Drain Valve Washer Replacement

	⚠ WARNING
	<ul style="list-style-type: none">• Before removing any access panels or servicing the water heater, make sure the electrical supply to the water heater is turned "OFF".• Failure to do this could result in death, serious bodily injury, or property damage.

NOTE: For replacement, use a 17/32" x 13/64" x 1/8" thick washer available at your nearest hardware store. For ordering a replacement washer, refer to the *Repair Parts List* section.

- Before beginning turn "OFF" the electrical power supply to the water heater.

- Follow *Draining* instructions. See *Draining* section.

- 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 *Filling the Water Heater* instructions in the *Installation Instructions* section.

- Check for leaks.

- Turn "ON" electric power to the water heater.

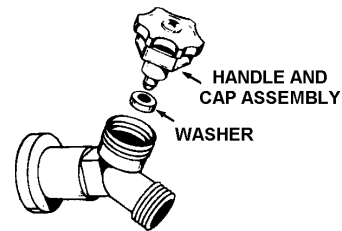


FIGURE 42.

Service

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

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

Contact Sears Repair Services at 1-800-4-MY-HOME® (1-800-469-4663).

TROUBLESHOOTING

Start Up Conditions

THERMAL EXPANSION

CAUTION

Property Damage Hazard

- Avoid water heater damage.
- Install thermal expansion tank or device if necessary.
- Contact qualified installer or service agency.

As water is heated, it expands (thermal expansion). In a closed system, the volume of water will grow. As the volume of water grows, there will be a corresponding increase in water pressure due to thermal expansion. Thermal expansion can cause premature tank failure (leakage). This type of failure is not covered under the limited warranty. Thermal expansion can also cause intermittent temperature-pressure relief valve operation: water discharged from the valve due to excessive pressure build up. The temperature-pressure relief valve is not intended for the constant relief of thermal expansion. This condition is not covered under the limited warranty.

A properly-sized thermal expansion tank should be installed on all closed systems to control the harmful effects of thermal expansion. Thermal expansion tanks are available from Sears stores and through the Sears Service Centers. Contact the local plumbing inspector, water supplier and/or the Sears Service Center regarding the installation of a thermal expansion tank.

NOTE: Expansion tanks are pre-charged with a 40 psi air charge. If the inlet water pressure is higher than 40 psi, the expansion tank's air pressure must be adjusted to match that pressure, but must not be higher than 80 psi.

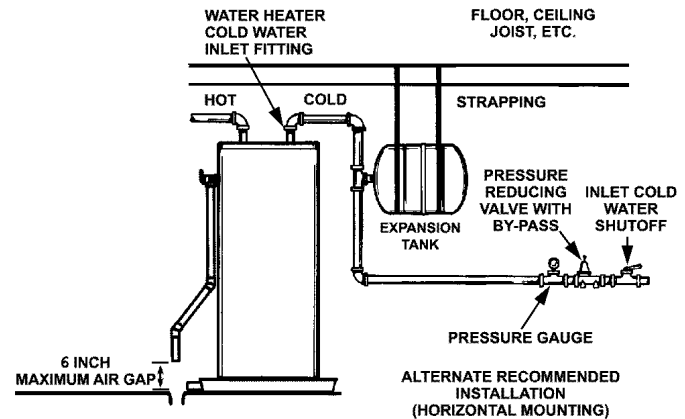
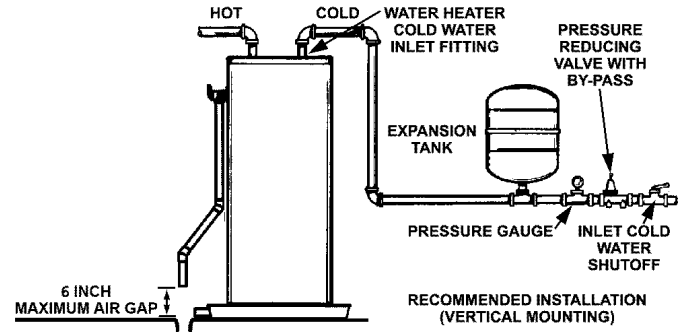


FIGURE 43.

Table 2: Thermal Expansion Tank Specifications

Model Number	Tank Capacity In Gallons	Dimensions in Inches		Pipe Fitting On Tank
		Diameter	Length	
153.331020	2	8 (203 mm)	12-3/4 (323 mm)	3/4" Male
153.331050	5	11 (279 mm)	14-3/4 (375 mm)	3/4" Male

Table 3: Expansion Tank Sizing Chart

Expansion Tank Capacity Needed	Inlet* Water Pressure	Water Heater Capacity (Gallons)				
		30	40	50	66	82
	40psi	2	2	2	5	5
	50psi	2	2	2	5	5
	60psi	2	2	5	5	5
	70psi	2	2	5	5	5
	80psi	2	5	5	5	5

*Highest recorded inlet water pressure in a 24 hour period or regulated water pressure.

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.

Operational Conditions

SMELLY WATER

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

- A. A concentration of sulfate in the supply water.
- B. Little or no dissolved oxygen in the water.
- C. A sulfate reducing bacteria within the water heater. (This harmless bacteria is non-toxic to humans.)



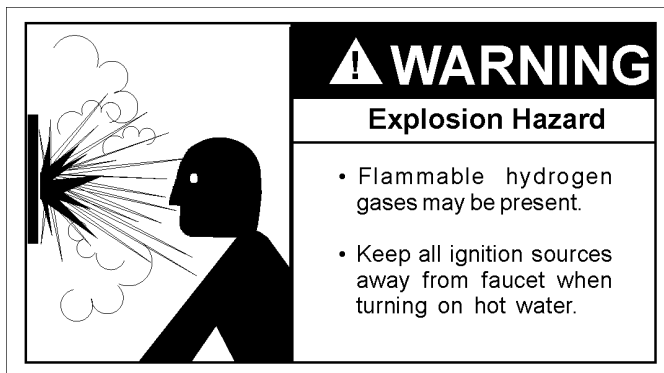
D. An excess of active hydrogen in the tank. This is caused by corrosion protective action of the anode.

Smelly water may be eliminated or reduced in some water heater models by replacing the anode rod (s) with one of less active material, and then chlorinating the water heater tank and all hot water lines. Contact the local Sears Service Center for further information concerning an Anode Replacement Kit #9001453 and this Chlorination Treatment. **Anode replacement and chlorination of the tank are not covered by the water heater's limited warranty.**

If the smelly water persists after the anode replacement and chlorination treatment; then you should consider chlorinating or aerating your water supply.

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



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

RUMBLING NOISE

In some water areas, scale or mineral deposits will build up on your heating elements. This buildup will cause a rumbling noise. Follow *Element Cleaning/Replacement* instructions to clean and replace the elements.

HIGH TEMPERATURE SHUT OFF SYSTEM

The water heater has a high limit shut off system with a reset button located on the thermostat.

Follow the resetting instructions which refer to the high limit behind the access panel.

NOTE: If your water heater is connected to an “Off Peak” Clock, and uses the “3 wire lead” wiring diagram in the *Wiring Diagram* section, then the water heater will have a high limit on both the upper and lower thermostats. Follow the instructions to reset the high-limit behind the upper and lower access panels.



1. Before beginning, turn “OFF” electrical power supply to the water heater.

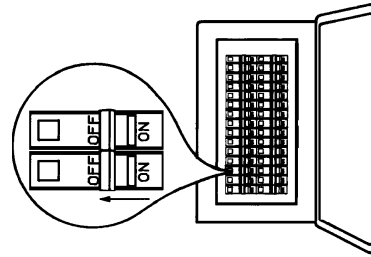


FIGURE 44.

2. Remove the screw securing the access panel, then remove the panel.
3. Fold the insulation back to expose the thermostat.
4. Reset the high limit by pushing in the red button marked “RESET”.

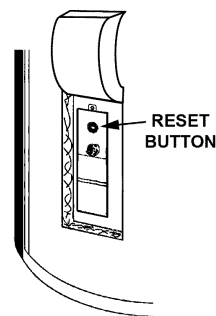


FIGURE 45.

5. Replace the insulation so that it completely covers the thermostat and element.
6. Replace the access panel.
7. Turn “ON” electric power to the water heater.

If the high limit must be reset again, call Sears Service Department to find out why the high limit turned “OFF” the electric power

NOT ENOUGH OR NO HOT WATER

1. In a new installation, the water heater may not be properly connected. Make sure the cold water supply valve is open. Review and check piping installation. Make sure that the cold water line is connected to the cold water inlet to the water heater and the hot water line to the hot water outlet on the water heater.

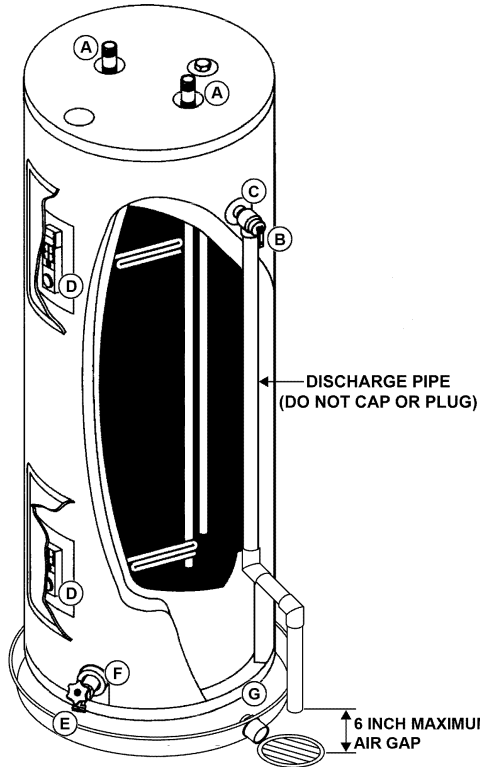


2. Make sure the electrical supply to your water heater is "ON".
3. Check for loose or blown fuses in your water heater circuit.
Circuit breakers weaken with age and may not handle their rated load and should be replaced.
4. Make certain the disconnect switch, if used, is in the "ON" position.
5. Check to see the electric service to your house has not been interrupted. If this is the case, contact the electric company.
6. Is the thermostat set to the desired temperature? See *Temperature Regulation* section.
7. If you had experienced very hot water and now no hot water, the problem may be due to the high temperature shut off system. See *High Temperature Shut Off System* in the *Troubleshooting* section.
8. During very cold weather, the incoming water will also be colder and it will require a longer time to become heated.
9. The hot water usage may exceed the capacity of the water heater. If so, wait for water heater to recover after abnormal demand. Also examine pipes and faucets for possible water leaks.
10. If you can not determine the problem, then call the Sears Service Department.

WATER IS TOO HOT

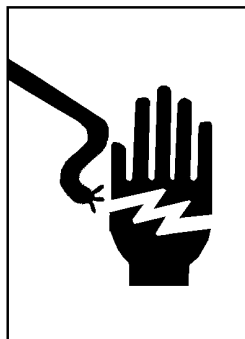
Adjust the thermostat to a lower setting. See the *Temperature Regulation* section.

LEAKAGE CHECKPOINTS



Never use this water heater unless it is completely full of water. To prevent damage to the tank and heating element, the tank must be filled with water. The water must flow from the hot water faucet before turning "ON" power.

- A. *Condensation may be seen on pipes in humid weather or pipe connections may be leaking.
- B. Small amounts of water from the temperature-pressure relief valve may be due to thermal expansion or high water pressure in your area.
- C. *The temperature-pressure relief valve may be leaking at the tank fitting.
- D. *The element may be leaking at the tank fitting.



⚠ WARNING

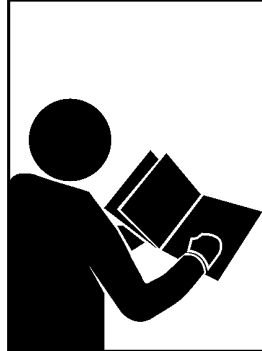
- Before removing any access panels or servicing the water heater, make sure the electrical supply to the water heater is turned "OFF".
- Failure to do this could result in death, serious bodily injury, or property damage.

Turn electrical power "OFF", remove access panel and insulation cap with handle. If leaking around element, follow proper draining instructions and remove element. Reposition or replace gasket on element. Place element into opening and tighten securely. Then follow *Filling the Water Heater* instructions in the *Installation Instructions* section.

- E. Water from drain valve may be due to the valve being opened slightly
- F. *The drain valve may be leaking at the tank fitting.
- G. Water in the water heater bottom or on the floor may be from condensation, loose connections or the temperature-pressure 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 *Service and Adjustment* section and then remove fitting. Put pipe dope or teflon tape on the threads and replace. Then follow *Filling the Water Heater* instructions in the *Installation Instructions* section.



⚠ 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.

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

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

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

CAUTION

Improper installation and use may result in property damage.

- Fill tank with water before operation.



REPAIR PARTS LIST

KENMORE POWER MISER™ 6 ELECTRIC WATER HEATERS

MODEL NUMBERS

153.326362	30 Gallon
153.326363	30 Gallon
153.326462	40 Gallon
153.326463	40 Gallon
153.326564	55 Gallon
153.326565	55 Gallon

NOTE:A

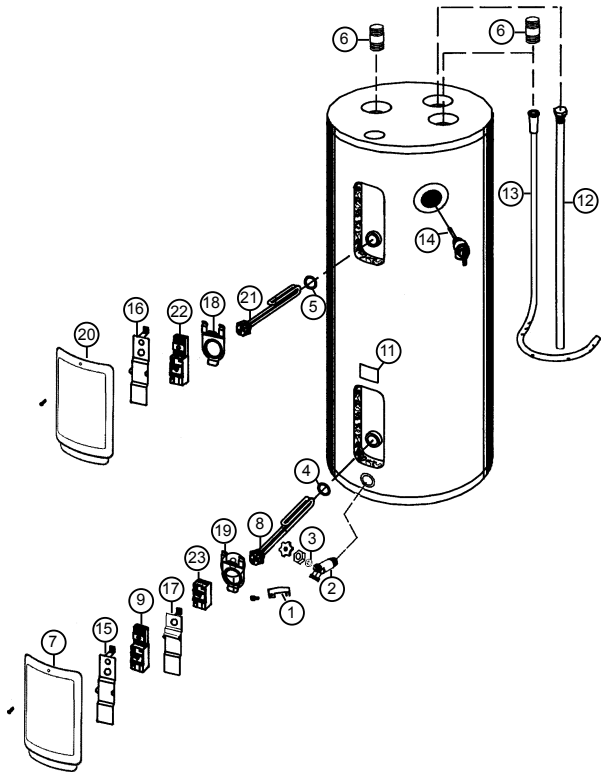
UPPER ELEMENT: These water heaters are equipped with 3800 watt elements.

LOWER ELEMENT: These water heaters are equipped with factory installed convertible elements, which can be operated at 3800 watts or 5500 watts. Convertible elements are not offered as replacement parts.

ELEMENT ORDERING INFORMATION: If a replacement 3800 watt, 240 volt element is needed, order part no. 9000049 replacement element. If, at the time of installation, the water heater was converted to operate at 5500 watts, order part no. 9000396 replacement element. (See model rating plate "If Converted" box).

NOTE:B

These water heaters are equipped with a Roto-Swirl™ dip tube to retard a build-up of dissolved solids.



Key No.	Part Description	Model No.					
		153.326362	153.326363	153.326462	153.326463	153.326564	153.326565
1	Buss Bar Kit	9001591	9001591	9001591	9001591	9001591	9001591
2	Drain Valve	9001588	9001588	9001588	9001588	9001588	9001588
3	Drain Valve Washer (17/32"x13/64"x1/8" thick)**	9001584	9001584	9001584	9001584	9001584	9001584
4	Element Gasket	9000308	9000308	9000308	9000308	9000308	9000308
5	Element Gasket	9000308	9000308	9000308	9000308	9000308	9000308
6	Heat Trap Nipple	9003915	9003915	9003719	9003719	9003719	9003719
7	Lower Access Panel	9003900	9003900	9003900	9003900	9003900	9003900
8	Lower Element (See NOTE "A" above) 3800 Watts	9000049	9000049	9000049	9000049	9000049	9000049
	5500 Watts	9000396	9000396	9000396	9000396	9000396	9000396
9	Lower Thermostat w/Hi-Limit (3 wire lead models) ††	-----	9002300	-----	9002300	-----	9002300
10	Manual #	185796-003	185796-003	185796-003	185796-003	185796-003	185796-003
11	Model Rating Plate †	184227-000	184227-000	184227-000	184227-000	184227-000	184227-000
12	Primary Anode Rod	9003944	9003944	9003944	9003944	9003944	9003944
13	Roto-Swirl™ Dip Tube (See NOTE "B" above)	9003473	9003473	9003919	9003919	9003919	9003919
14	Temperature Pressure Relief Valve*	9002403	9002403	9002403	9002403	9002403	9002403
15	Terminal Cover	-----	9002438	-----	9002438	-----	9002438
16	Terminal Cover	9002438	9002438	9002438	9002438	9002438	9002438
17	Terminal Cover	9002276	-----	9002276	-----	9002276	-----
18	Thermostat Bracket	9000309	9000309	9000309	9000309	9000309	9000309
19	Thermostat Bracket	9000309	9000309	9000309	9000309	9000309	9000309
20	Upper Access Panel	9003900	9003900	9003900	9003900	9003900	9003900
21	Upper Element (See NOTE "A" above)	9000049	9000049	9000049	9000049	9000049	9000049
22	Upper Thermostat w/Hi Limit	9002302	9002302	9002302	9002302	9002302	9002302
23	2 Pole Thermostat (Two wire lead models) ††	9002214	-----	9002214	-----	9002214	-----

* These parts are also available at most Sears retail stores. ** Also available at most hardware stores. † Replaced only on return of damaged plate. †† Refer to Wiring Diagram section for verification. #Not illustrated.

Now that you have purchased this water heater, should a need ever exist for repair parts or service, simply contact any Sears Service Center or call 1-800-4-MY-HOME® (1-800-469-4663). Be sure to provide all pertinent facts when you call or visit.

All Parts listed may be ordered from any Sears Service Center and by calling 1-800-366-PART (1-800-366-7278).

If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for handling.

The model number of the water heater will be found on the model rating plate located near the access panel.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- Model Number • Part Number
- Serial Number • Part Description

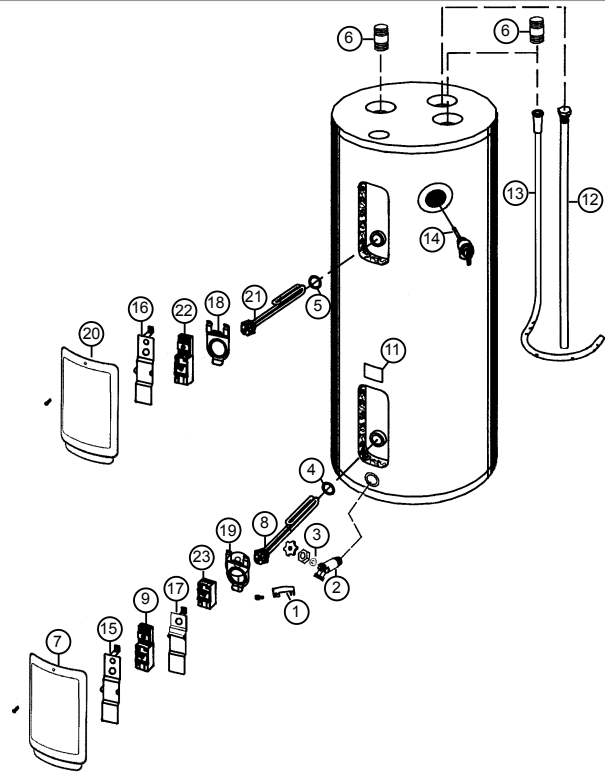
THIS IS A REPAIR PARTS LIST, NOT A PACKING LIST.

REPAIR PARTS LIST

KENMORE POWER MISER™ 6 ELECTRIC WATER HEATERS

MODEL NUMBERS

153.326662	50 Gallon Medium
153.326663	50 Gallon Medium
153.326762	40 Gallon Medium
153.326763	40 Gallon Medium



NOTE:A

UPPER ELEMENT: These water heaters are equipped with 3800 watt elements.

LOWER ELEMENT: These water heaters are equipped with factory installed convertible elements, which can be operated at 3800 watts or 5500 watts. Convertible elements are not offered as replacement parts.

ELEMENT ORDERING INFORMATION: If a replacement 3800 watt, 240 volt element is needed, order part no. 9000049 replacement element. If, at the time of installation, the water heater was converted to operate at 5500 watts, order part no. 9000396 replacement element. (See model rating plate "If Converted" box).

NOTE:B

These water heaters are equipped with a Roto-Swirl™ dip tube to retard a build-up of dissolved solids.

Key No.	Part Description	Model No.			
		153.326662	153.326663	153.326762	153.326763
1	Buss Bar Kit	9001591	9001591	9001591	9001591
2	Drain Valve	9001588	9001588	9001588	9001588
3	Drain Valve Washer (17/32"x13/64"x1/8" thick)**	9001584	9001584	9001584	9001584
4	Element Gasket	9000308	9000308	9000308	9000308
5	Element Gasket	9000308	9000308	9000308	9000308
6	Heat Trap Nipple	9003921	9003921	9003719	9003719
7	Lower Access Panel	9003900	9003900	9003900	9003900
8	Lower Element (See NOTE "A" above)	9000049	9000049	9000049	9000049
	3800 Watts	9000396	9000396	9000396	9000396
	5500 Watts				
9	Lower Thermostat w/Hi-Limit (3 wire lead models) ††	-----	9002300	-----	9002300
10	Manual #	185796-003	185796-003	185796-003	185796-003
11	Model Rating Plate †	184227-000	184227-000	184227-000	184227-000
12	Primary Anode Rod	9003944	9003944	9003944	9003944
13	Roto-Swirl™ Dip Tube (See NOTE "B" above)	9003501	9003501	9003500	9003500
14	Temperature Pressure Relief Valve*	9002403	9002403	9002403	9002403
15	Terminal Cover	-----	9002438	-----	9002438
16	Terminal Cover	9002438	9002438	9002438	9002438
17	Terminal Cover	9002276	-----	9002276	-----
18	Thermostat Bracket	9000309	9000309	9000309	9000309
19	Thermostat Bracket	9000309	9000309	9000309	9000309
20	Upper Access Panel	9003900	9003900	9003900	9003900
21	Upper Element (See NOTE "A" above)	9000049	9000049	9000049	9000049
22	Upper Thermostat w/Hi Limit	9002302	9002302	9002302	9002302
23	2 Pole Thermostat (Two wire lead models) ††	9002214	-----	9002214	-----

* These parts are also available at most Sears retail stores. ** Also available at most hardware stores. † Replaced only on return of damaged plate. †† Refer to Wiring Diagram section for verification. #Not illustrated.

Now that you have purchased this water heater, should a need ever exist for repair parts or service, simply contact any Sears Service Center or call 1-800-4-MY-HOME® (1-800-469-4663). Be sure to provide all pertinent facts when you call or visit.

All Parts listed may be ordered from any Sears Service Center and by calling 1-800-366-PART (1-800-366-7278).

If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for handling.

The model number of the water heater will be found on the model rating plate located near the access panel.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- Model Number • Part Number
- Serial Number • Part Description

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



REPAIR PARTS LIST

KENMORE POWER MISER™ 6 ELECTRIC WATER HEATERS

MODEL NUMBERS

153.326862	50 Gallon Short
153.326863	50 Gallon Short

NOTE:A

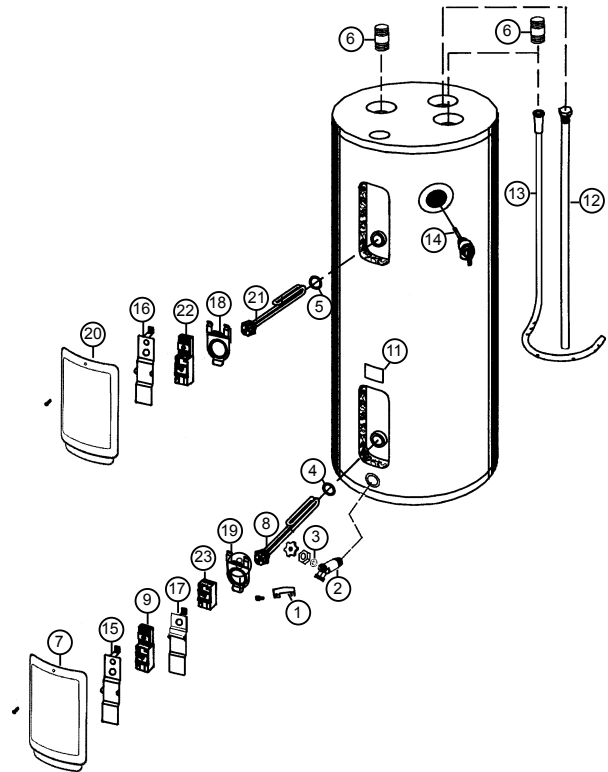
UPPER ELEMENT: These water heaters are equipped with 3800 watt elements.

LOWER ELEMENT: These water heaters are equipped with factory installed convertible elements, which can be operated at 3800 watts or 5500 watts. Convertible elements are not offered as replacement parts.

ELEMENT ORDERING INFORMATION: If a replacement 3800 watt, 240 volt element is needed, order part no. 9000049 replacement element. If, at the time of installation, the water heater was converted to operate at 5500 watts, order part no. 9000396 replacement element. (See model rating plate "If Converted" box).

NOTE:B

These water heaters are equipped with a Roto-Swirl™ dip tube to retard a build-up of dissolved solids.



Key No.	Part Description	Model No.	
		153.326862	153.326863
1	Buss Bar Kit	9001591	9001591
2	Drain Valve	9001588	9001588
3	Drain Valve Washer (17/32"x13/64"x1/8" thick)**	9001584	9001584
4	Element Gasket	9000308	9000308
5	Element Gasket	9000308	9000308
6	Heat Trap Nipple	9003921	9003921
7	Lower Access Panel	9003900	9003900
8	Lower Element (See NOTE "A" above)	9000049 9000396	9000049 9000396
9	Lower Thermostat w/Hi-Limit (3 wire lead models) ††	-----	9002300
10	Manual #	185796-003	185796-003
11	Model Rating Plate †	184227-000	184227-000
12	Primary Anode Rod	9003944	9003944
13	Roto-Swirl™ Dip Tube (See NOTE "B" above)	9003926	9003926
14	Temperature Pressure Relief Valve*	9002403	9002403
15	Terminal Cover	-----	9002438
16	Terminal Cover	9002438	9002438
17	Terminal Cover	9002276	-----
18	Thermostat Bracket	9000309	9000309
19	Thermostat Bracket	9000309	9000309
20	Upper Access Panel	9003900	9003900
21	Upper Element (See NOTE "A" above)	9000049	9000049
22	Upper Thermostat w/Hi Limit	9002302	9002302
23	2 Pole Thermostat (Two wire lead models) ††	9002214	-----

* These parts are also available at most Sears retail stores. ** Also available at most hardware stores. †† Refer to Wiring Diagram section for verification. #Not illustrated.

Now that you have purchased this water heater, should a need ever exist for repair parts or service, simply contact any Sears Service Center or call 1-800-4-MY-HOME® (1-800-469-4663). Be sure to provide all pertinent facts when you call or visit.

All Parts listed may be ordered from any Sears Service Center and by calling 1-800-366-PART (1-800-366-7278).

If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for handling.

The model number of the water heater will be found on the model rating plate located near the access panel.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- Model Number • Part Number
- Serial Number • Part Description

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

NOTES

NOTES

6 - YEAR LIMITED WARRANTY ON WATER HEATER

For six years from the date of purchase, if this water heater is installed and operated in a single-family home in accordance with the owner's manual instructions and all local applicable plumbing codes, Sears will:

1. Supply free water heater parts for those that are defective in material or workmanship.
2. Supply a free water heater for one that develops a leak.

For the second through sixth year from the purchase date, you must pay the labor cost for installation of parts or water heater.

For commercial, institutional, industrial or residential use by two or more families, the above limited warranty is only for two years. During the second year you must pay the labor cost for parts or water heater installation.

1-YEAR EXCLUSIVE KENMORE LABOR WARRANTY

For the first year from the date of purchase, Sears will, free of charge, supply and install new water heater parts for defective ones or a new water heater for one that develops a leak.

WARRANTY SERVICE

To obtain warranty service, call 1-800-4-MY-HOME® (1-800-469-4663).

This warranty applies only while this product is in use in the United States.

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

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

The price of your water heater does not include a free checkup service call. On water heater installations arranged by Sears, Sears warrants the installation.

A charge will be made on service calls due to poor or incomplete installation. These include:

- a. Adjusting thermostat
- b. Condensation
- c. Leaks in pipes or fittings

MASTER PROTECTION AGREEMENTS

Congratulations on making a smart purchase. Your new Kenmore® product is designed and manufactured for years of dependable operation. But like all products, it may require preventive maintenance or repair from time to time. That's when having a Master Protection Agreement can save you money and aggravation.

The Master Protection Agreement also helps extend the life of your new product. Here's what the Agreement* includes:

- **Parts and labor** needed to help keep products operating properly **under normal use**, not just defects. Our coverage goes **well beyond the product warranty**. No deductibles, no functional failure excluded from coverage— **real protection**.
- **Expert service** by a force of more than **10,000 authorized Sears service technicians**, which means someone you can trust will be working on your product.
- **Unlimited service calls and nationwide service**, as often as you want us, whenever you want us.
- **"No-lemon"** guarantee – replacement of your covered product if four or more product failures occur within twelve months.
- **Product replacement** if your covered product can't be fixed.
- **Annual Preventive Maintenance Check** at your request – no extra charge.
- **Fast help by phone** – we call it **Rapid Resolution** – phone support from a Sears representative on all products. Think of us as a "talking owner's manual."

- **Power surge protection** against electrical damage due to power fluctuations.
- **\$250 Food Loss Protection** annually for any food spoilage that is the result of mechanical failure of any covered refrigerator or freezer.
- **Rental reimbursement** if repair of your covered product takes longer than promised.
- **10% discount** off the regular price of any non-covered repair service and related installed parts.

Once you purchase the Agreement, a simple phone call is all that it takes for you to schedule service. You can call anytime day or night, or schedule a service appointment online.

The Master Protection Agreement is a risk free purchase. If you cancel for any reason during the product warranty period, we will provide a full refund. Or, a prorated refund anytime after the product warranty period expires. Purchase your Master Protection Agreement today!

Some limitations and exclusions apply. For prices and additional information in the U.S.A. call 1-800-827-6655.

*** Coverage in Canada varies on some items. For full details, call Sears Canada at 1-800-361-6665.**

SEARS INSTALLATION SERVICE

For Sears professional installation of home appliances, garage door openers, water heaters, and other major home items, in the U.S.A. or Canada call **1-800-4-MY-HOME®**.

For in-home major brand repair service

Call 24 hours a day, 7 days a week (U.S.A. and Canada)

1-800-4-MY-HOME®

(1-800-469-4663)

www.sears.com

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

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