### Use & Care Guide

Model No.	
153.586320	30 Gallon Tall
153.586311	28 Gallon Short
153.586401	40 Gallon Tall
153.586501	50 Gallon Tall
153.586511	50 Gallon Medium
153.586411	40 Gallon Medium



# Kenmore<sub>®</sub> Electric Water Heater

For potable water heating only. Not suitable for space heating.

INSTALLER: Affix these instructions to or near the water heater. OWNER: Retain these instructions for future reference.

#### **ADVERTENCIA**

Si no puede leer o entender el inglés y necesita el manual de instrucciones en español, puede solicitarlo al 1-800-821-2017. NO TRATE DE INSTALAR U OPERAR ESTE CALENTADOR DE AGUA SI NO ENTIENDE LAS INSTRUCCIONES. No hacer caso de esta advertencia podría originar lesiones graves o mortales.

P/N 100288150\_2000545913\_Rev. A (0617) Sears Brands Management Corporation, Hoffman Estates, IL 60179 U.S.A. www.kenmore.com



ALR CERTIFIED®

### 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.
--	---

	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	CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, could result in property damage.

#### **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**



# 

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.

# CAUTION

Improper installation and use may result in property damage.

- · 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.

Refer to instruction manual for installation and service.



# · Or water • Primar or bottom

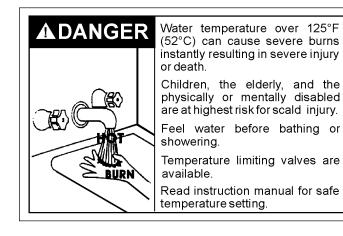
### A WARNING Explosion Hazard

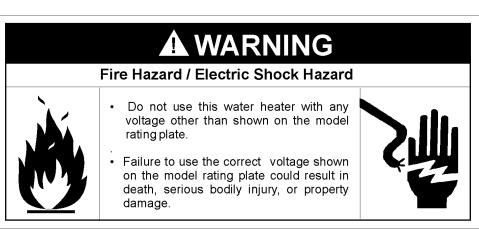
- . . . . .
- Overheated water can cause water tank explosion.
- Properly sized temperature and pressure relief valve must be installed in opening provided.



# 

- 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.





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#### KENMORE LIMITED WARRANTY

WITH PROOF OF SALE, the following warranty coverage applies when this water heater is correctly connected, installed, operated and maintained according to all supplied instructions. In all cases, replacement units, tanks or parts are warranted only for the unexpired portion of the warranty period from the original date of sale.

FOR ONE YEAR from the date of sale this water heater is warranted against defects in material or workmanship. A defective water heater will receive free repair or replacement at option of seller.

FOR SIX YEARS from the date of sale this water heater is warranted against leaks in the tank. If a tank leak occurs within the first year, a new water heater of equal capacity and quality will be supplied and installed at no charge. If a tank leak occurs after the first year, a new water heater of equal capacity and quality will be supplied but not installed at no charge. You are responsible for the labor cost of water heater installation after the first year from the date of sale.

FOR SIX YEARS from the date of sale all water heater parts are warranted against defects in material or workmanship. If a part is defective within the first year, a new part will be supplied and installed at no charge. If a part is defective after the first year, a new part will be supplied but not installed at no charge. You are responsible for the labor cost of part installation after the first year from the date of sale.

For warranty coverage details to obtain free repair or replacement, visit the web page: www.kenmore.com/warranty

This warranty applies for only two years on the tank and one year on all parts if this water heater is ever used in a residence of more than one family or in a commercial, institutional or industrial installation.

### This warranty covers ONLY defects in material and workmanship, and will NOT pay for:

- 1. Expendable items that can wear out from normal use, including but not limited to filters, belts, bags or screw-in base light bulbs.
- A service technician to clean or maintain this appliance, or to instruct the user in correct appliance installation, operation and maintenance.
- Service calls to correct appliance installation not performed by Sears authorized service agents, or to repair problems with house fuses, circuit breakers, house wiring, and plumbing or gas supply systems resulting from such installation.

- Damage to or failure of this appliance resulting from installation not performed by Sears authorized service agents, including installation that was not in accord with electrical, gas or plumbing codes.
- Damage to or failure of this appliance, including discoloration or surface rust, if it is not correctly operated and maintained according to all supplied instructions.
- Damage to or failure of this appliance, including discoloration or surface rust, resulting from accident, alteration, abuse, misuse or use for other than its intended purpose.
- Damage to or failure of this appliance, including discoloration or surface rust, caused by the use of detergents, cleaners, chemicals or utensils other than those recommended in all instructions supplied with the product.
- 8. Damage to or failure of parts or systems resulting from unauthorized modifications made to this appliance.
- Service to an appliance if the model and serial plate is missing, altered, or cannot easily be determined to have the appropriate certification logo.

#### Disclaimer of implied warranties; limitation of remedies

Customer's sole and exclusive remedy under this limited warranty shall be product repair or replacement as provided herein. Implied warranties, including warranties of merchantability or fitness for a particular purpose, are limited to one year on the water heater, and six years on the tank and parts, or the shortest period allowed by law. Seller shall not be liable for incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitation on the duration of implied warranties of merchantability or fitness, so these exclusions or limitations may not apply to you.

This warranty applies only while this appliance is used 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 Brands Management Corporation, Hoffman Estates, IL 60179

#### **Master Protection Agreements**

Congratulations on making a smart purchase. Your new Kenmore Elite® 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:

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

- **Parts and labor** not just for repairing defects, but to help keep products operating properly under normal use. Our coverage goes well beyond the product warranty. No deductibles, no functional failure excluded from coverage— real protection.
- **Expert service** by experienced service technicians trusted in millions of homes every year.
- Unlimited service calls and nationwide service, as often as you want us, whenever you want us.
- "No-lemon" guarantee replacement of your covered product after three separate product failures occur within twelve months and a fourth repair is required. Includes free delivery and installation, if necessary, of replacement product.
- Product replacement if your covered product can't be fixed.
- Annual Preventive Maintenance Check at your request no extra charge.

- Fast help by phone phone support from a service agent on all products to help trouble-shoot problems. Think of us as a "talking owner's manual."
- Power surge protection against electrical damage due to power fluctuations.
- \$300 Food Loss Protection for any food spoilage that is the result of mechanical failure of any covered refrigerator or freezer.
- Service Promise: \$50 if first attempt repair of your covered kitchen or laundry product can't be accomplished and product is not usable while awaiting further repair service.
- 25% 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.

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. call **1-844-553-6667**, and in Canada call **1-800-469-4663**.

### INTRODUCTION

**Thank You** for purchasing a Kenmore 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 product is certifield to comply with a maximum weighted average of 0.25% lead content as required in some areas.

- 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.
- Keep combustibles such as boxes, magazines, clothes, etc., away from water heater area.

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.

	NOMINAL TANK		SIONS IN		ELEMENT WATTAGE @ 240 VOLTS			MAXIMUM FUSE	
MODEL NUMBER	CAPACITY IN GALLONS (LITERS)	INCHE DIA.	S (mm) HEIGHT	RECOVERY RATE GALS. PER HOUR @90°F RISE	LOWER	UPPER	MINIMUM WIRE SIZE* (GAUGE)	OR CIRCUIT BREAKER SIZE (AMPS)	
153.586320	30 (114)	19.0 (483)	46.75 (1187)	21	4500	4500	10	30	
153.586311	28 (106)	22.0 (559)	31.25 (794)	21	4500	4500	10	30	
153.586401	40 (151)	18.0 (458)	61.25 (1557)	21	4500	4500	10	30	
153.586501	50 (189)	20.5 (521)	60.5 (1537)	21	4500	4500	10	30	
153.586511	50 (189)	23.0 (584)	49.0 (1245)	21	4500	4500	10	30	
153.586411	40 (151)	20.5 (521)	49.75 (1264)	21	4500	4500	10	30	

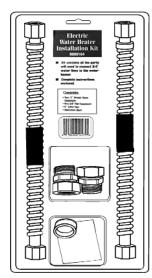
### **PRODUCT SPECIFICATIONS**

\* 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.

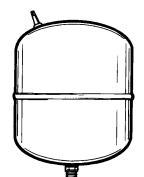
### MATERIALS AND BASIC TOOLS NEEDED

#### **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" 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 AND IN 24" DIAMETER FOR WATER HEATERS HAVING A DIAMETER OF 22" 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

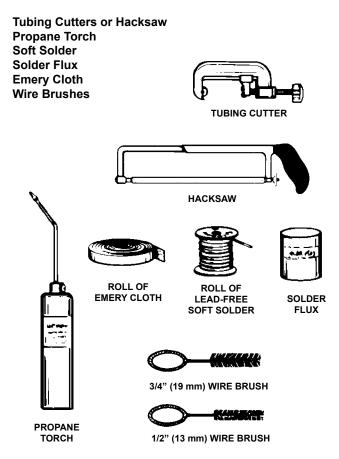
DRILL





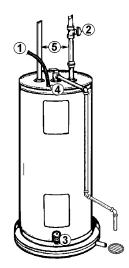
PIPE WRENCH

# Additional Tools Needed When Sweat Soldering

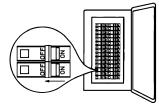


### INSTALLATION INSTRUCTIONS

#### Removing the Old Water Heater



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



#### FIGURE 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.

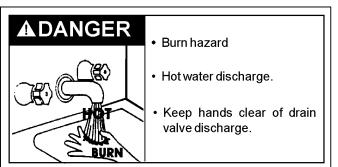


FIGURE 3.

**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.

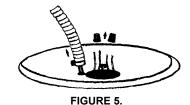




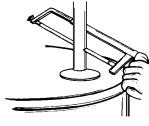


The water passing out of the drain valve may be extremely hot. To avoid being scalded, make sure all connections are tight and that the water flow is directed away from any person.

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.



5. 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.





6. 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 7.

#### Mineral Buildup or Sediment May Accumulate

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

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.

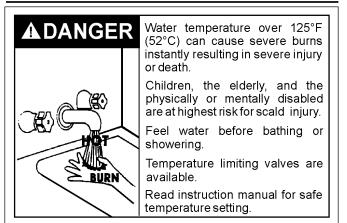
### **Insulation Blankets**

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 Conversation 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.

- <u>Do not</u> cover the temperature and pressure relief (T & P) valve with an insulation blanket.
- <u>Do not</u> cover the instruction manual. Keep it on the side of the water heater or nearby for future reference.
- <u>Do</u> obtain new warning and instruction labels for placement on the blanket directly over the existing labels.

#### Water Piping



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 8 (below) for mixing valve usage.

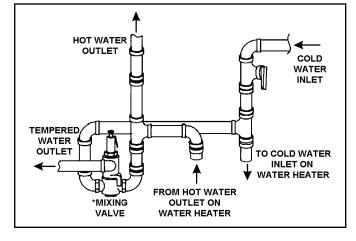


FIGURE 8.

The water supply pressure should not exceed 80 psi. If this occurs, a pressure reducing valve with a bypass should be installed in the cold water inlet line. This should be placed on the supply to the entire house in order to maintain equal hot and cold water pressures.

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.

- 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.

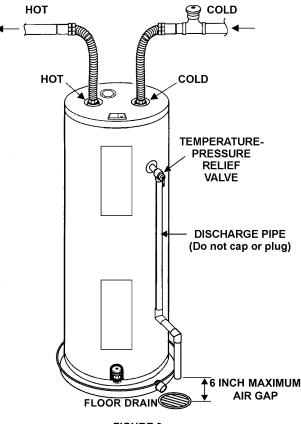
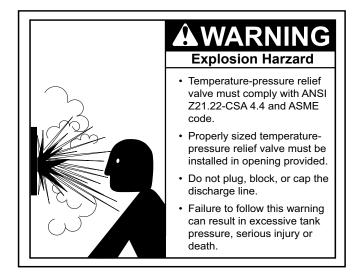


FIGURE 9.

#### **Temperature-Pressure Relief Valve**



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

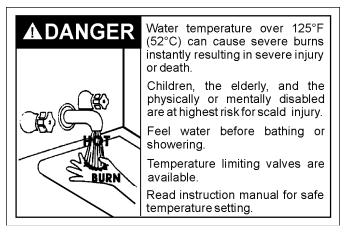
• Temperature-pressure relief valve discharge pipe must terminate at adequate drain.

No valve or other obstruction is to be placed between the relief valve and the tank. Do not connect tubing directly to discharge

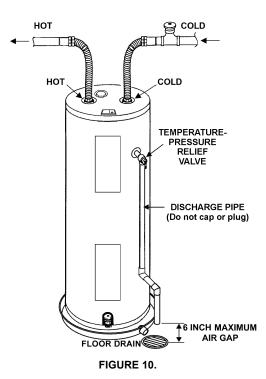
drain unless a 6 inch (153 mm) air gap is provided. To prevent bodily injury, hazard to life, or property damage, the relief valve must be allowed to discharge water in quantities should circumstances demand. If the discharge pipe is not connected to a drain or other suitable means, the water flow may 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.



The temperature-pressure relief valve must be manually operated at least once a year. Caution should be taken to ensure that (1) no one is in front of or around the outlet of the temperature-pressure relief valve discharge line, and (2) the water manually discharged will not cause any bodily injury or property damage because the water may be extremely hot. If after manually operating the valve, it fails to completely reset and continues to release water, immediately close the cold water inlet to the water heater, follow the draining instructions, and replace the temperature-pressure relief valve with a new one.



#### Filling the Water Heater



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.

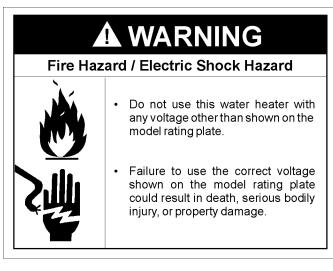
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#### Wiring

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.



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.

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

- 4. A standard 1/2" conduit opening has been made in the water heater junction box for the conduit connection.
- 5. A wiring diagram (Figure 24) has been provided to show the connections between the water heater and the power supply.
  - **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.
- 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

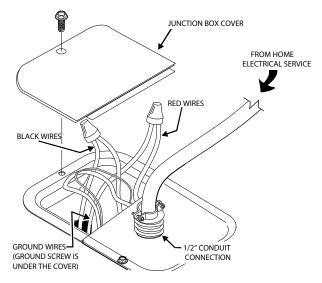
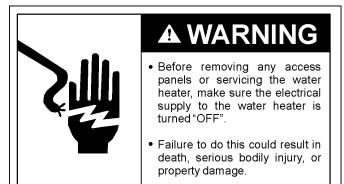


FIGURE 11.



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

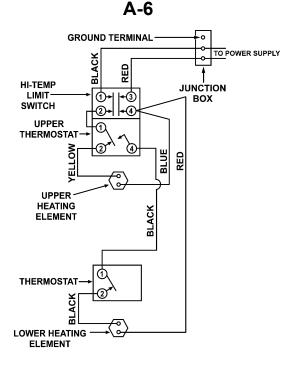
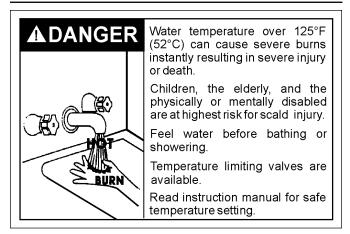


FIGURE 12.

### SERVICE AND ADJUSTMENT

#### Temperature Regulation



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.

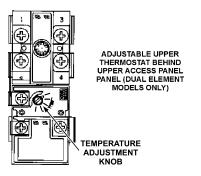
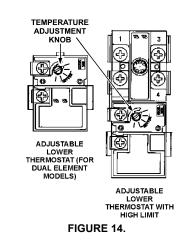


FIGURE 13.

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.



#### **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)



**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.



- 2. Take off the upper and/or lower access panel(s), then fold the insulation back to expose the thermostat.
- 3. The slotted adjustment can be turned clockwise ( ) with a screwdriver 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.

Each water heater contains at least one anode rod, which will slowly deplete (due to electrolysis) prolonging the life of the water heater by protecting the glass-lined tank from corrosion. Adverse water quality, hotter water temperatures, high hot water usage, hydronic heating devices, and water softening methods can increase the rate of anode rod depletion. Once the anode rod is depleted, the tank will start to corrode, eventually developing a leak.

Certain water conditions will cause a reaction between the anode rod and the water. The most common complaint associated with the anode rod is a "rotten egg smell" produced from the presence of hydrogen sulfide gas dissolved in the water. IMPORTANT: Do not remove this anode rod permanently as it will void any warranties. A special anode rod may be available if water odor or discoloration occurs.

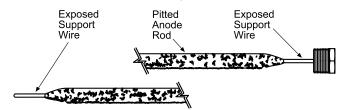
NOTE: This anode rod may reduce but not eliminate water odor problems. The water supply system may require special filtration equipment from a water conditioning company to successfully eliminate all water odor problems.

Artificially softened water is exceedingly corrosive because the process substitutes sodium ions for magnesium and calcium ions.

The anode rod should be inspected after a maximum of three

years and annually thereafter until the condition of the anode rod dictates its replacement. NOTE: Artificially softened water requires the anode rod to be inspected annually. The following are typical (but not all) signs of a depleted anode rod:

- The majority of the anode rod's diameter is less than 3/8".
- Significant sections of the support wire (approx. 1/3 or more of the anode rod's length) are visible.



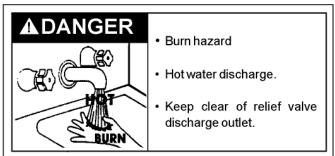
#### FIGURE 15.

If the anode rod show signs of either or both it should be replaced. NOTE: Whether re-installing or replacing the anode rod, check for any leaks and immediately correct if found. In replacing the anode:

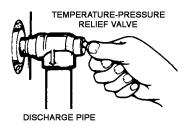
- 1. Turn off power to the water heater.
- 2. Shut off the water supply and open a nearby hot water faucet to depressurize the water tank.
- 3. Drain approximately 5 gallons of water from tank. (Refer to "Draining and Flushing" for proper procedures). Close drain valve.
- 4. Remove old anode rod.
- 5. Use Teflon® tape or approved pipe sealant on threads and install new anode rod.
- Turn on water supply and open a nearby hot water faucet to purge air from water system. Check for any leaks and immediately correct any if found.
- 7. Restart the water heater as directed in this manual. See the Repair Parts Illustration for anode rod location.

#### **Temperature-Pressure Relief Valve Operation**

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



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 temperaturepressure 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.



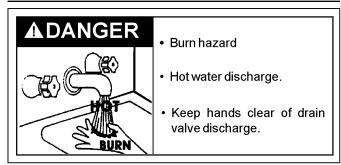
#### FIGURE 16.

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 temperaturepressure 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**



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.



- 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.



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.



- 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.

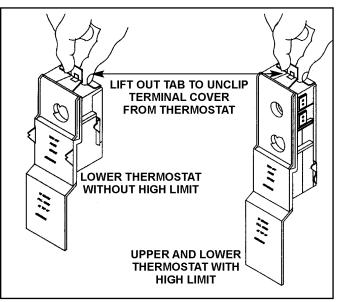


FIGURE 18.

- Disconnect wires from the thermostat. 4.
- Remove the thermostat from behind the thermostat 5. 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.

- Replace the insulation to cover the thermostat. 9.
- 10. Replace access panel, then turn the electric power on.

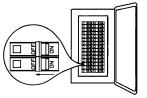
### Element Cleaning/Replacement

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:



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



#### FIGURE 19.

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



FIGURE 20.

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.

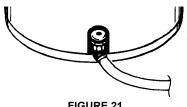
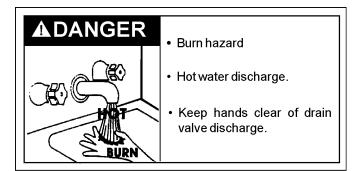
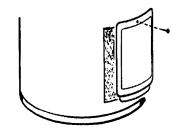


FIGURE 21.



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 22.

5. Fold the insulation back to expose the thermostat.

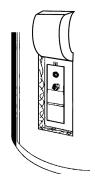


FIGURE 23.

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

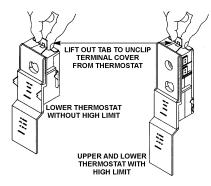


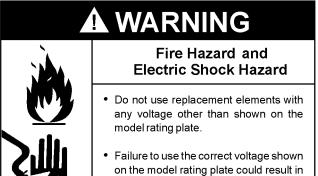
FIGURE 24.

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



#### FIGURE 25.

- 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.



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 26

- 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.

• Fill tank with water before operation.

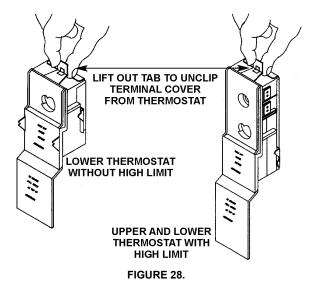
Never use this water heater unless it is completely full of water. To prevent damage to the tank and heating element, the tank must be filled with water. Water must flow from the hot water faucet before turning "ON" power.

- 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.
- Reconnect the two wires to the element and then check to make sure the thermostat remains firmly against the surface of the tank.



FIGURE 27.

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



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

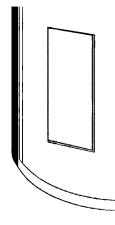
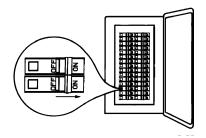


FIGURE 29.

- 18. Replace access panel.
- 19. Turn "ON" electric power to water heater.





#### **Drain Valve Washer Replacement**



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 31.

#### 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 1-844-553-6667.

### **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 increase. As the volume of water increases, 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.

**Table 2: Thermal Expansion Tank Specifications** 

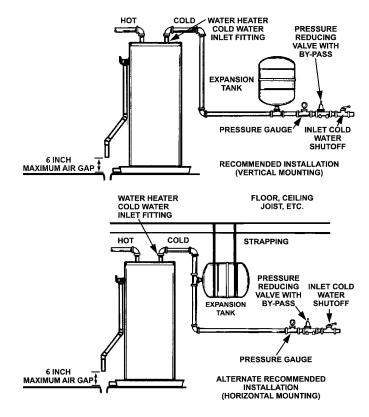
Model	Tank Capacity	Dimensions in Inches		Pipe Fitting
Number	In Gallons	Diameter Length		On Tank
153.331021	2	8 (203 mm)	12-3/4 (323 mm)	3/4" Male
153.331051	5	11 (279 mm)	14-3/4 (375 mm)	3/4" Male

#### **Table 3: Expansion Tank Sizing Chart**

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

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

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 32.

#### 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.

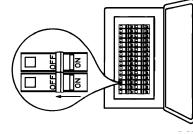
#### HIGH TEMPERATURE SHUT OFF SYSTEM

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

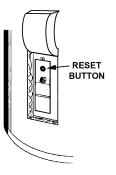
Follow the resetting instructions which refer to the high limit behind the access panel.



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



- 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 34.

- 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

- 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".
- 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.
- 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.
- 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

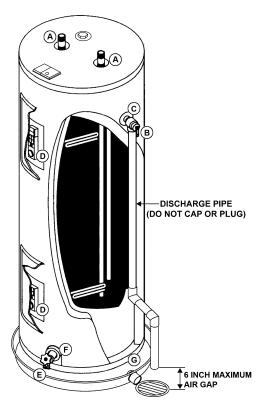
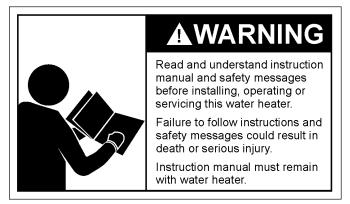


FIGURE 35.



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.



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. 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.

# 

- 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 temperaturepressure relief valve. DO NOT replace the water heater until a full inspection of all possible water sources is made and necessary corrective steps taken.

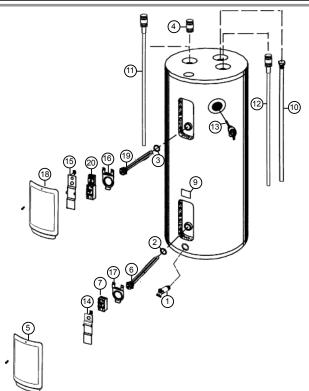
Leakage from other appliances, water lines, or ground seepage should also be checked.

\* 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.

### **REPAIR PARTS LIST**

#### **KENMORE 6 ELECTRIC WATER HEATERS**

MODEL NUMBERS				
153.586320	30 Gallon			
153.586311	30 gallon			
153.586401	40 Gallon			
153.586501	50 Gallon			



Key		Model No.			
No.	Part Description	153.586320	153.586311	153.586401	153.586501
1	Drain Valve	100158121	100158121	100158121	100158121
2	Element Gasket	100108379	100108379	100108379	100108379
3	Element Gasket	100108379	100108379	100108379	100108379
4	Heat Trap Nipple	100109621			100109621
5	Lower Access Panel	100109599	100109599	100109599	100109599
6	Lower Element 4500 Watts	100108290	100108290	100108290	100108290
7	Lower Thermostat w/Hi-Limit	100108421	100108421	100108421	100108421
8	Manual #	100281900	100281900	100281900	100281900
9	Model Rating Plate				
10	Primary Anode Rod	100109624	100111073	100108260	100108260
11	Combination Heat Trap Nipple/Anode	100109621			
12	Dip Tube (includes Nipple with Heat Trap)	100265092	100269972	100273983	100210050
13	Temperature and Pressure Relief Valve	100108599	100108599	100108599	100108599
14	Terminal Cover (Lower)	100108743	100108743	100108743	100108743
15	Terminal Cover (Upper)	100108799	100108799	100108799	100108799
16	Thermostat Bracket	100109597	100109597	100109597	100109597
17	Thermostat Bracket	100109597	100109597	100109597	100109597
18	Upper Access Panel	100109599	100109599	100109599	100109599
19	Upper Element 4500 Watts	100108290	100108290	100108290	100108290
20	Upper Thermostat w/Hi-Limit	100108683	100108683	100108683	100108683
21	Hot Outlet Tube #		100281521	100281522	100269973
22	Secondary Anode #		100111073		

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

tt 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 1-844-553-6667. Be sure to provide all pertinent facts when you call or visit.

### WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

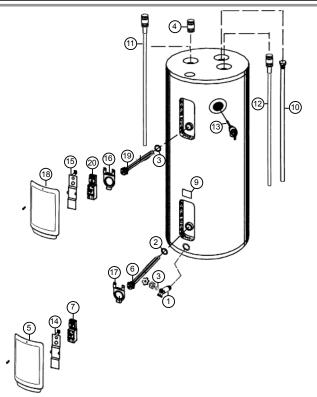
- MODEL NUMBER PART NUMBER SERIAL NUMBER •
- •
- PART DESCRIPTION

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

### **REPAIR PARTS LIST**

#### **KENMORE 6 ELECTRIC WATER HEATERS**

MODEL NUMBERS				
153.586511	50 Gallon Medium			
153.586411	40 Gallon Medium			



Key		Model No.		
No.	Part Description	153.586511	153.586411	
1	Drain Valve	9009060	9009060	
2	Element Gasket	9000308	9000308	
3	Element Gasket	9000308	9000308	
4	Heat Trap Nipple	9003936	9003936	
5	Lower Access Panel	9003900	9003900	
6	Lower Element 4500 Watts	9000095	9000095	
7	Lower Thermostat w/Hi-Limit	9000507	9000507	
8	Manual #	100281900	100281900	
9	Model Rating Plate			
10	Primary Anode Rod	9000029	9003944	
11	Combination Heat Trap Nipple/Anode	9003936	9003936	
12	Dip Tube (includes Nipple with Heat Trap)	9002403	9002403	
13	Temperature and Pressure Relief Valve	9001583	9001583	
14	Terminal Cover (Lower)	9002276	9002276	
15	Terminal Cover (Upper)	9002438	9002438	
16	Thermostat Bracket	9003898	9003898	
17	Thermostat Bracket	9003898	9003898	
18	Upper Access Panel	9003900	9003900	
19	Upper Element 4500 Watts	9000095	9000095	
20	Upper Thermostat w/Hi-Limit	9001954	9001954	

\* 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 1-844-553-6667. Be sure to provide all pertinent facts when you call or visit.

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

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- .
- •
- MODEL NUMBER PART NUMBER SERIAL NUMBER PART DESCRIPTION



# **Customer Care Hotline**

To schedule repair service or order parts Para pedir servicio o ordenar piezas



www.kenmore.com

For service in Canada Au Canada pour service 1-800-469-4663

