

GE & PROFILE
SmartWater™ Softener Systems

INSTALLATION INSTRUCTIONS

GE Models GNSF18Z01, GNSF23Z01, GNSF35Z01 & Profile Model PNSF31Z01

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CAUTION: Certain plumbing skills are needed for installation. If you are unsure about any part of the installation of this product, consult a professional plumber.

UNPACKING AND INSPECTION

The softener is shipped in one master carton. The softener is completely assembled at the factory, except as required at installation.

Be sure to check the entire softener for any shipping damage or parts loss. Also note damage to the shipping cartons. Contact the transportation company for all damage and loss claims. The manufacturer is not responsible for damages in transit.

Small parts, needed to install the softener, are on a skin-packed cardboard piece. To avoid loss of the small parts, keep them on the skin-pack until you are ready to use them.

IMPORTANT INSTALLATION RECOMMENDATIONS

Read entire manual. Failure to follow all guidelines and rules could cause personal injury or property damage.

- **Follow the installation instructions carefully. Failure to properly install the softener voids the warranty.**
- **Before you begin installation, read these Installation Instructions completely. Then, obtain all the materials and tools you will need to make the installation.**
- **Check local codes. The installation must conform to them.**
- **Use only lead-free solder and flux for all sweat-solder connections, as required by state and federal codes.**
- **Connect the softener to the main water supply pipe BEFORE or AHEAD OF the water heater. DO NOT RUN HOT WATER THROUGH THE SOFTENER. Temperature of water passing through the softener must be less than 100° F.**
- **Use care when handling the softener. Do not turn upside down, drop, drag, or set on sharp protrusions.**
- **The softener requires a minimum water flow of 3 gallons per minute at the inlet. Maximum allowable inlet water pressure is 125 psi. If daytime pressure is over 80 psi, nighttime pressure may exceed the maximum. Use a pressure reducing valve if necessary. (Adding a pressure reducing valve may reduce the flow.)**
- **The softener works on 24 volt-60 Hz electrical power only. Be sure to use the included transformer. Be sure the electric outlet and transformer are in an inside location to protect from wet weather.**
- **See “WHERE TO INSTALL THE SOFTENER” section for more details.**



WARNING: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. The water should be tested periodically to verify that the system is performing satisfactorily.

Small parts remaining after the installation could be a choke hazard. Discard safely.

PLAN HOW YOU WILL INSTALL THE SOFTENER

You must first decide how to run in and out pipes to the softener. Look at the house main water pipe at the point where you will connect the softener. Is the pipe soldered copper, glued plastic, or threaded galvanized? What is the pipe size?

 **WARNING:** Use only lead-free solder and flux to prevent lead poisoning.

Look at Fig. 1 for models GNSF18, GNSF23 and GNSF35 or Fig. 2 for model PNSF31. Use this as a guide when planning your particular installation. **Be sure to direct the incoming hard water supply to the softener valve inlet fitting.** The valve is marked IN and OUT. See below to help you prepare.

NOTE: The state of Massachusetts requires a licensed plumber to perform the installation.

WHERE TO INSTALL THE SOFTENER

- Place the softener as close as possible to a sewer drain, or other acceptable drain point or standpipe.
- It is recommended to keep outside faucets on hard water to save soft water and salt.
- Do not install the softener in a place where it could freeze. **Freeze damage is not covered by the warranty.**
- Do not install the softener where it would block access to the water heater or access to the main water shutoff.
- Put the softener in a place where water damage is least likely to occur if a leak develops. The manufacturer will not repair or pay for water damage.
- A 120 volt electric outlet is needed to plug in the included transformer. The softener has a 10 foot power cable. If the outlet is remote (up to 100 feet), use 18 gauge wire to connect. **Be sure the electric outlet and transformer are in an inside location, to protect from wet weather.** Be sure the outlet is unswitched to prevent accidental shutoff.
- If installing in an outside location, you must take the steps necessary to assure the softener, installation plumbing, wiring, etc., are as well protected from the elements (sunlight, rain, wind, heat, cold), contamination, vandalism, etc., as when installed indoors.
- **Keep the softener out of direct sunlight.** The sun's heat may distort non-metallic parts and may damage the electronics.

TOOLS AND MATERIALS REQUIRED FOR INSTALLATION

- In and out pipes to the softener must be at least 3/4" size. Some local codes require a minimum of 1" pipe size. To plumb with 1" pipes, buy adapters to fit the 1" pipe threads on the bypass valve (see Figures 1 and 2).
- Use copper, brass or galvanized pipe and fittings. Some codes may also allow CPVC plastic pipes.
- Use the included bypass valve to install the softener. The bypass valve allows you to turn off water to the softener for servicing, but still have water in the house pipes.
- Drain hose is needed for valve and salt tank drains. A 20' length of drain tubing is included. If a longer length is needed, it can be ordered from GE Parts at 800.626.2002.
- If a rigid valve drain is needed to comply with plumbing codes, you can buy the parts needed (Fig. 4A) to connect a 1/2" copper tubing or plastic pipe drain.
- Clean nugget or pellet water softener salt is needed to fill the brine tank, see step 9.

Fig. 1

TYPICAL INSTALLATION ILLUSTRATION

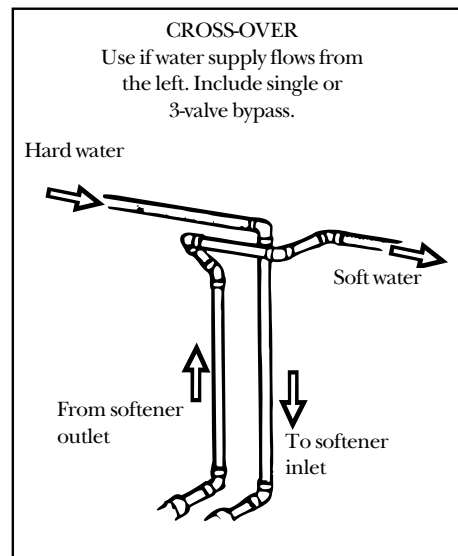
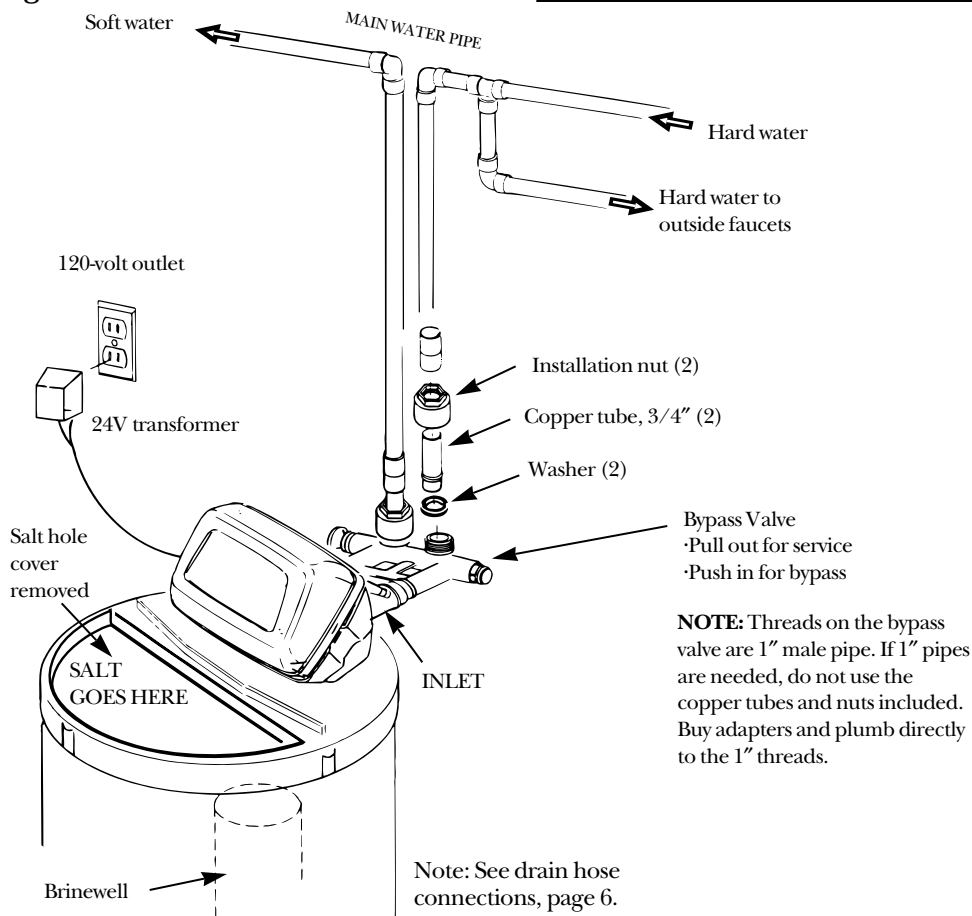
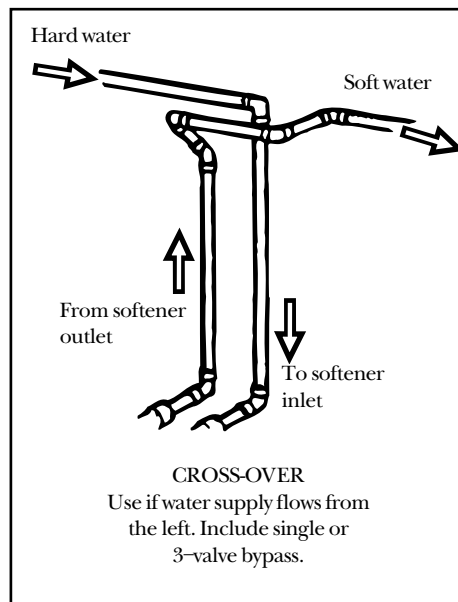
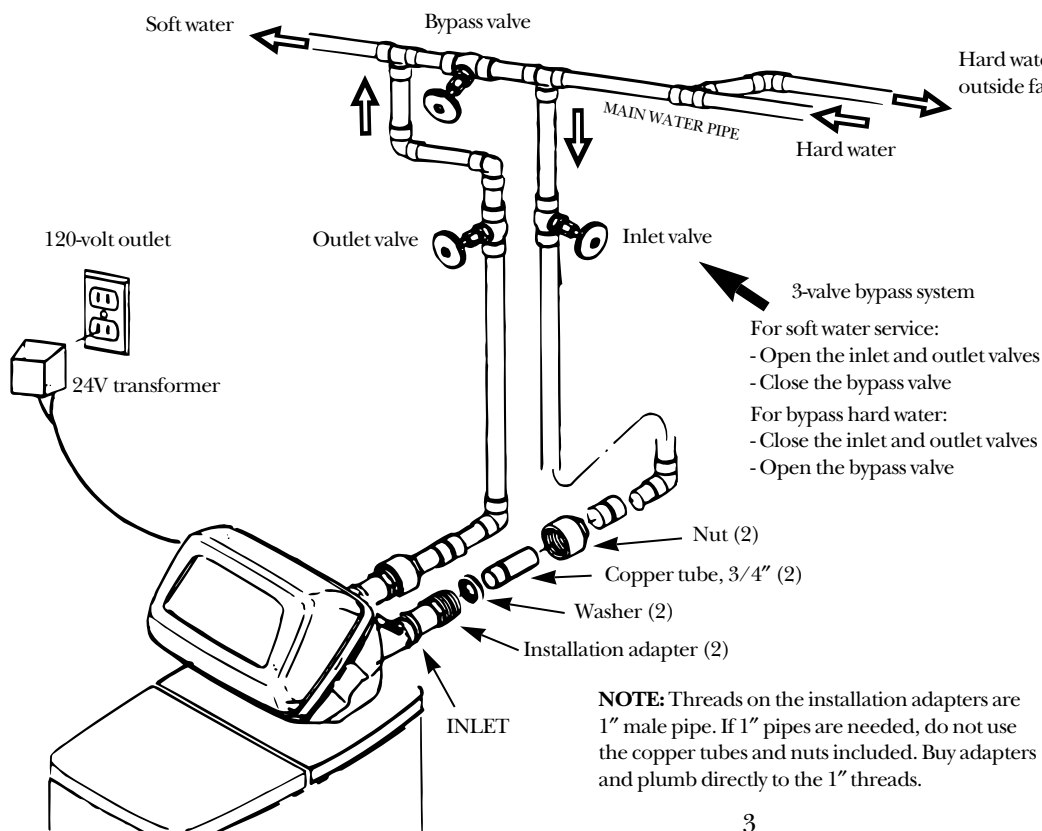


Fig. 2

OPTIONAL 3-VALVE BYPASS INSTALLATION ILLUSTRATION

Adapters for this installation are not supplied with the softener.



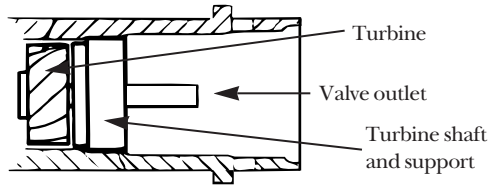
STEP-BY-STEP INSTALLATION INSTRUCTIONS

Turn off the water supply to pipes to be cut and drain the house water pipes. Open both hot and cold faucets.

1. INSTALL BYPASS VALVE

- Remove plastic shipping plug and wire from valve outlet.

NOTE: Be sure the turbine and support are firmly in place in the valve outlet. Blow into the valve port and observe the turbine for free rotation.



- Push the bypass valve (lubricate o-ring seals with silicone grease) into both ports of the valve as shown in Fig. 3A.
- Snap the 2 large plastic clips in place, from the top, down as shown in Figures 3A and 3B. **Be sure they snap into place. Pull on the bypass valve to make sure it is held securely in place.**

2. MOVE THE SOFTENER ASSEMBLY INTO INSTALLATION POSITION:

- Be sure the installation surface is level and smooth. Sharp objects under the tank may puncture it. If needed, place the tank on a section of 3/4" thick (minimum) plywood. Then, place shims under the plywood as needed to level the softener.

3. PLUMB IN AND OUT PIPES TO AND FROM SOFTENER:

CAUTION: Observe all of the following cautions as you connect inlet and outlet plumbing.

- **BE SURE INCOMING HARD WATER SUPPLY IS DIRECTED TO THE SOFTENER VALVE INLET PORT.** If house water flow is from the left, use a plumbing **cross-over** as shown in Fig. 1.
- If making a soldered copper installation, **do all sweat soldering before connecting pipes to the bypass valve.** Torch heat will damage plastic parts.
- When turning threaded pipe fittings onto plastic fittings, **use care not to cross-thread.**
- Use pipe joint compound on all external pipe threads.
- Support inlet and outlet plumbing in some manner (use pipe hangers) **to keep the weight off of the valve fittings.**

4. INSTALL THE BRINE TANK OVERFLOW FITTINGS:

- Insert the rubber grommet into the 3/4" diameter hole in the brine tank sidewall as shown in Fig. 5.
- Push the end of the hose adapter elbow into the grommet as shown in Fig. 5.

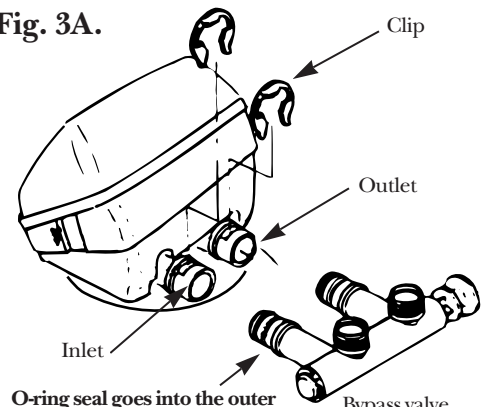
5. CONNECT AND RUN THE VALVE DRAIN HOSE:

- Use the provided drain hose (20' length included) to attach to the valve drain fitting. To keep water pressure from blowing the hose off, use a hose clamp to secure in place.
- Locate the other end of the hose at a suitable drain point (floor drain, sump, laundry tub, etc.) that terminates at the sewer. **Check and comply with local codes.**

IMPORTANT: If more drain hose is needed, it can be ordered from GE Parts at 800.626.2002. **The water softener will not work if water cannot exit this hose during regenerations.**

- Tie or wire the hose in place at the drain point. High water pressure will cause it to whip during the back-wash and fast rinse cycles of regeneration. **Also provide an air gap of at least 1-1/2" between the end of the hose and the drain point.** An air gap prevents possible siphoning of sewer water into the softener, if the sewer should "back-up."
- If raising the drain hose overhead is required to get to the drain point, **do not raise higher than 8' above the floor.** Elevating the hose may cause a back-pressure that could reduce brine draw during regenerations.

Fig. 3A.



O-ring seal goes into the outer groove only. The clip snaps into the inner groove (see below).

NOTE: Threads on the valve are 1" male pipe. If 1" pipe is needed, buy adapters and plumb to the 1" threads.

Fig. 3B.

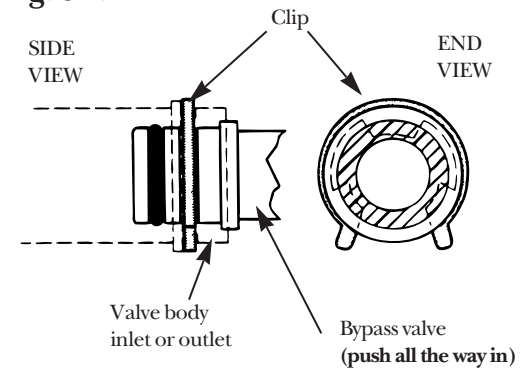


Fig. 3C.

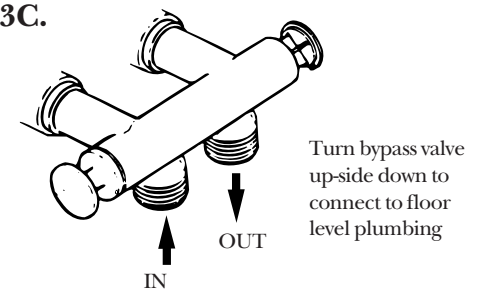
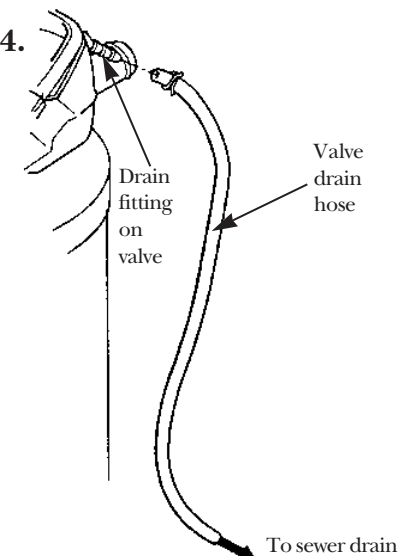


Fig. 4.



5A. CONNECTING A RIGID VALVE DRAIN TUBE

- To adapt a copper drain tube to the softener, use a hacksaw to cut the barbed end from the drain fitting as shown in Fig. 4A. Rotate the drain fitting so the cutting blade clears the valve housing to prevent damage to valve. Buy a compression fitting (1/4" female pipe thread x 1/2" O.D. tube) and needed tubing from your local hardware store.

6. CONNECT AND RUN THE CABINET (BRINE TANK) OVERFLOW HOSE

- Attach a length of hose (use remaining hose from step 5) to the drain elbow installed in step 4. Use a hose clamp to hold it in place.
- Locate the other end of the hose at the drain point. **DO NOT ELEVATE** this hose higher than the elbow on the brine tank. **DO NOT TEE** this hose to the valve drain hose.

NOTE: This drain is for safety only. If the cabinet (brine tank) should over-fill with water, the excess is carried to the drain.

7. INSTALL GROUNDING CLAMPS AND WIRE

⚠ DANGER: Failure to properly attach ground wire could result in electrical shock.

- If plumbing is metal, to **maintain electrical ground continuity** in the house cold water piping, install the included ground clamps as shown in Fig. 6. Be sure the pipes are clean under the clamps to assure good contact.

8. FLUSH PIPES, EXPEL AIR FROM SOFTENER, AND TEST YOUR INSTALLATION FOR WATER LEAKS:

⚠ CAUTION: To avoid water or air pressure damage to softener inner parts, be sure to do the following steps in exact order.

- Fully open 2 cold soft water faucets nearby the softener.
- Place bypass valve in "bypass" position by pushing the stem inward.
- Fully open the house main water pipe shutoff valve. Observe a steady flow from both faucets opened in step A, above.
- Place bypass valve in the "service" position **EXACTLY** as follows. **KEEP SOFT WATER FAUCETS OPEN.**
SLOWLY pull or slide the valve stem toward "service," pausing several times to allow the softener to pressurize slowly.
- After about 3 minutes, open a **HOT** water faucet for 1 minute, or until all air is expelled, then close.
- Close all water faucets.
- Check your plumbing work for leaks and fix right away if any are found. Be sure to observe previous caution notes.
- Turn on the gas or electric supply to the water heater. Light the pilot, if applicable.

9. ADD WATER AND SALT TO THE BRINE TANK:

- Lift the cabinet (brine tank) cover. Add about 3 gallons of water into the tank. Do not add into the brinewell.
- Fill tank with NUGGET, PELLET or coarse SOLAR water softener salt with a purity of 99.5% or higher. **Do not use** rock, block, granulated, and ice cream-making salts, or **salt with iron-removing additives**. Also see the Owner's Manual. Salt storage capacity is approximately 150 lbs. for model GNSF18 and 200 lbs. or more for the other models.

NOTE: If the softener is installed in a humid basement or other damp area, it is better to **fill the tank with less salt, more frequently**. Eighty to 100 lbs. of salt will last for several months, depending on water hardness, family size and water softening system model.

10. CONNECT TO ELECTRICAL POWER:

- If transformer wiring is not visible at the back of the control head, remove control cover. **DO NOT PULL ON OR DISCONNECT WIRING.** Locate the long wire with "U" shaped connectors on one end. Route this wire through the rear of the control housing. Replace the control cover.
- Fasten the 2 power cable lugs ("U" shaped connectors) to the 2 screws on the transformer, and tighten the screws. Then, plug the transformer into the electrical outlet.

11. PROGRAM THE CONTROL:

- See Programming the Control section.

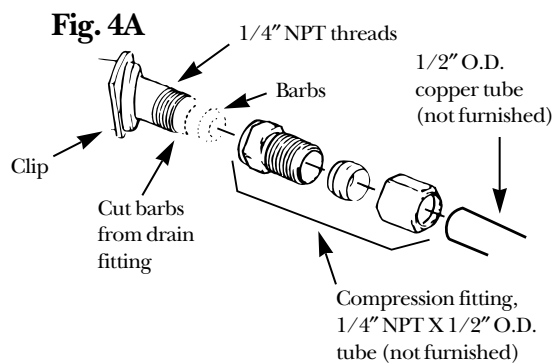


Fig. 5

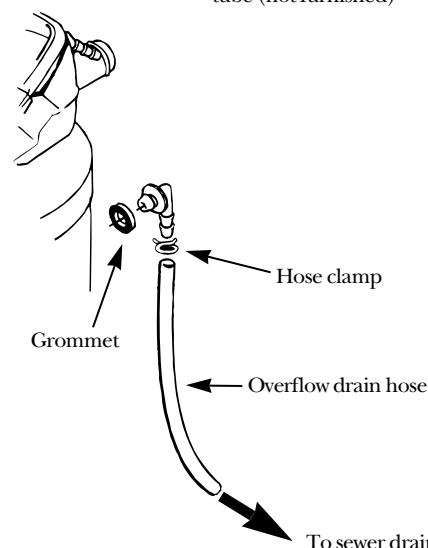
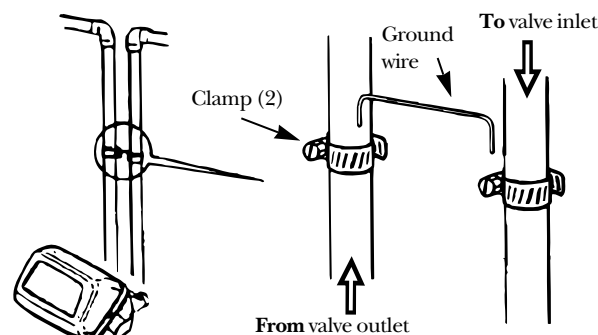


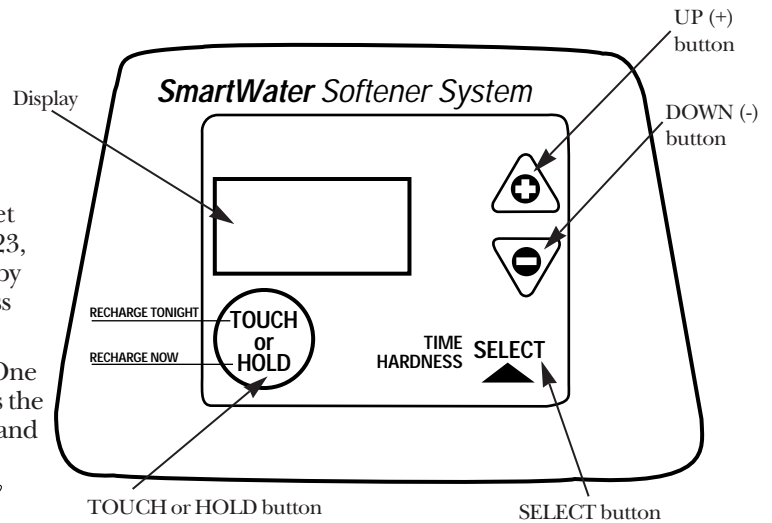
Fig. 6



• **CONTROL SETTINGS REQUIRED** upon installation and after an extended power outage (see the Owner’s Manual).

NOTES:

- **WHEN THE TRANSFORMER IS PLUGGED INTO THE ELECTRICAL OUTLET** (see step 10), 12:00 AM (flashing), and **PRESENT TIME** show in the display area. Program the control as instructed below. **If SR -- is flashing**, use the UP (+) ⬆ button to set the correct SR code as follows: **SR18** for GNSF18, **SR17** for GNSF23, **SR35** for GNSF35, or **SR22** for Profile model PNSF31. If you pass by the correct code number, use the DOWN (-) ⬇ button. Then press the **SELECT** button and program the control.
- A “beep” sounds while pressing buttons for control programming. One beep signals a change in the control display. Repeated beeps means the control will not accept a change from the button you have pressed, and you should use another button.
- To program the control, you will use the UP (+) ⬆, DOWN (-) ⬇ and **SELECT** buttons.



SET PRESENT TIME OF DAY



NOTE: If the words **PRESENT TIME** do not show in the display, press the **SELECT** button until they do.

1. Press the UP (+) ⬆ or DOWN (-) ⬇ button to set. The UP button moves the display ahead; the DOWN button moves the time backward.

If the present time is between noon and midnight, be sure PM shows.



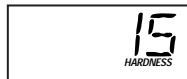
NOTE: Each press of an UP (+) ⬆ or DOWN (-) ⬇ button changes the time by one minute. Holding the button in changes the time 32 minutes each second.



2. When the present time shows, press **SELECT** to set.

If the present time is between midnight and noon, be sure AM shows.

SET WATER HARDNESS NUMBER



NOTE: If 15 (factory default) and **HARDNESS** do not show in the display, press **SELECT** until they do.

1. Press the UP (+) ⬆ or DOWN (-) ⬇ button to set your water hardness number in the display. DOWN (-) ⬇ moves the display down to 1. UP (+) ⬆ moves the display up to the maximum setting.

NOTE: Each press of a button changes the display by 1 between 1 and 25. Above 25, the display changes 5 at a time (25, 30, 35, etc.). Holding a button in changes the numbers twice each second.

2. When your water hardness number shows, press **SELECT** to set.

You can get the grains per gallon (gpg) hardness of your water supply from a water analysis laboratory, or call and ask your local water department, if you are on a municipal supply, or call GE Answer Center® to request a water hardness test kit. If your report shows hardness in parts per million (ppm) simply divide by 17.1 to get the equivalent number of grains per gallon.

SET REGENERATION (STARTING) TIME

NOTE: **RECHARGE TIME** and a flashing 2:00 AM (factory default) should show in the display. This is a good time for regeneration to start (over in about 2 hours) in most households because water is not in use. **HARD WATER** is bypassed to house faucets during regeneration.

If no change is needed, go to step 2. To change the regeneration starting time, follow step 1.

1. Press the UP (+) ⬆ or DOWN (-) ⬇ button to set the desired regeneration start time.

NOTE: Each press of the buttons changes the time by 1 hour. Holding the buttons in changes the time twice each second.

2. Press the **SELECT** button once more.



Be sure to observe the AM or PM, as you did when setting the time of day.

The display shows the present time of day and **RECHARGE TONIGHT**.



See the Owner’s Manual for further details.

TO COMPLETE THE INSTALLATION—Carry out the following sanitizing procedures before salt is added to the softener

Care is taken at the factory to keep your water softener clean and sanitary. Materials used to make the softener will not infect or contaminate your water supply, and will not cause bacteria to form or grow. However, during shipping, storage, installing and operating, bacteria could get into the softener. For this reason, sanitizing as follows is suggested when installing.

NOTE: Sanitizing is recommended by the Water Quality Association for disinfecting.

1. Be sure to complete all installation steps, including control programming.
2. Mix about 3/4 oz. of common 5.25% household bleach (Clorox, Linco, Bo Peep, White Sail, Eagle, etc.) with about 1 quart of water and pour this mixture into the brinewell. It is important not to pour undiluted bleach into the softener.

3. IMPORTANT: Press and hold (for 3 seconds) the TOUCH or HOLD button to start an immediate regeneration. RECHARGE NOW begins to flash in the display. The bleach is drawn into and through the water softener to sanitize it. This sanitizing regeneration is over in about 2 hours. Then, soft water is available for your use.

NOTE: When the above sanitizing regeneration is over, your house COLD water supply is fully soft immediately. However, **your water heater is filled with hard water** and, as hot water is used, it will refill with soft water. When all the hard water is replaced in the water heater, hot only and mixed hot and cold water will be fully soft. If you want totally soft water immediately, after the above regeneration, drain the water heater until the water runs cold.

⚠ DANGER: If you do drain the water heater, use extreme care as the hot water could cause burns.

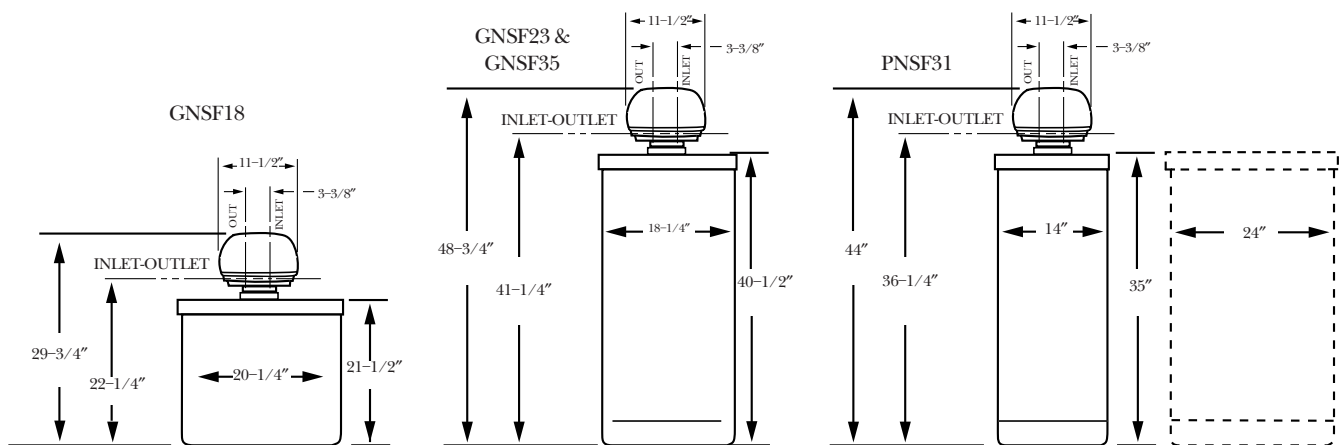
SPECIFICATIONS/DIMENSIONS

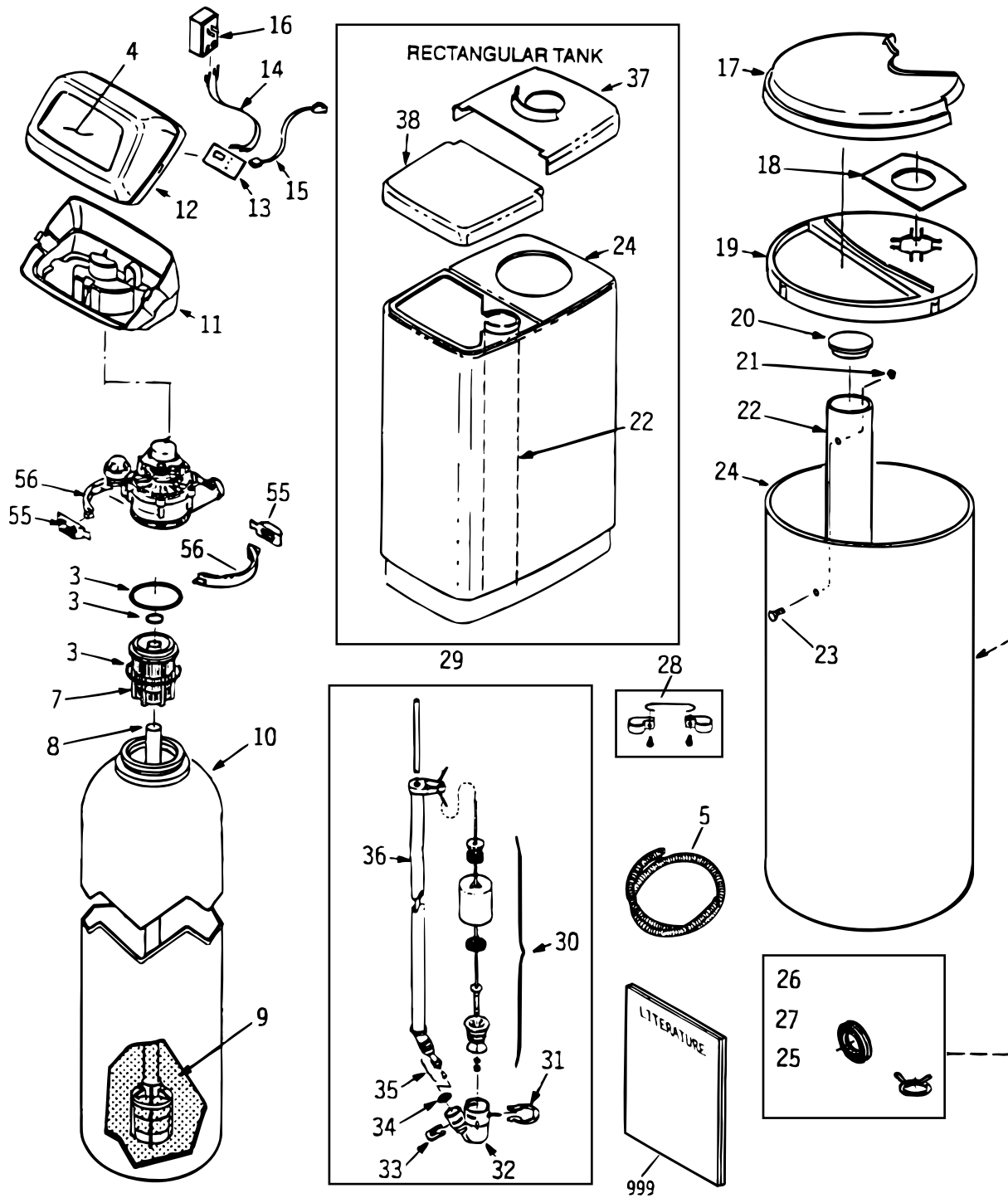
See rating decal, located on the Softener

Rated Capacity

	GNSF18	GNSF23	GNSF35	PNSF31
Amount of high capacity resin (lbs/cu. ft)	38/.73	31.2/.6	48.4/.93	41.6/.8
Resin tank nominal size (in., dia. x height)	10 x 21	8 x 40	9 x 40	10 x 35
Service flow rate (gpm)	7	8	10	10
Water supply maximum hardness (gpg) ⑤	25	50	100	95
Water supply maximum clear water iron (ppm) ⑤	3	3	6	5
Water pressure limits (min.-max. psi)	20-125	20-125	20-125	20-125
Pressure drop at rated service flow (psig)	15	15	15	15
Water temperature maximum (°F)	120	120	120	120
Water supply minimum flow rate (gpm)	3	3	3	3
Regeneration cycle flow rates (gpm)				
Fill (flow to brine tank)	.3	.3	.3	.3
Brining	.24	.19	.20	.19
Brine Rinse	.14	.12	.16	.12
Backwash	1.8	1.8	2.0	2.3
Fast Rinse	1.8	1.8	2.0	2.3

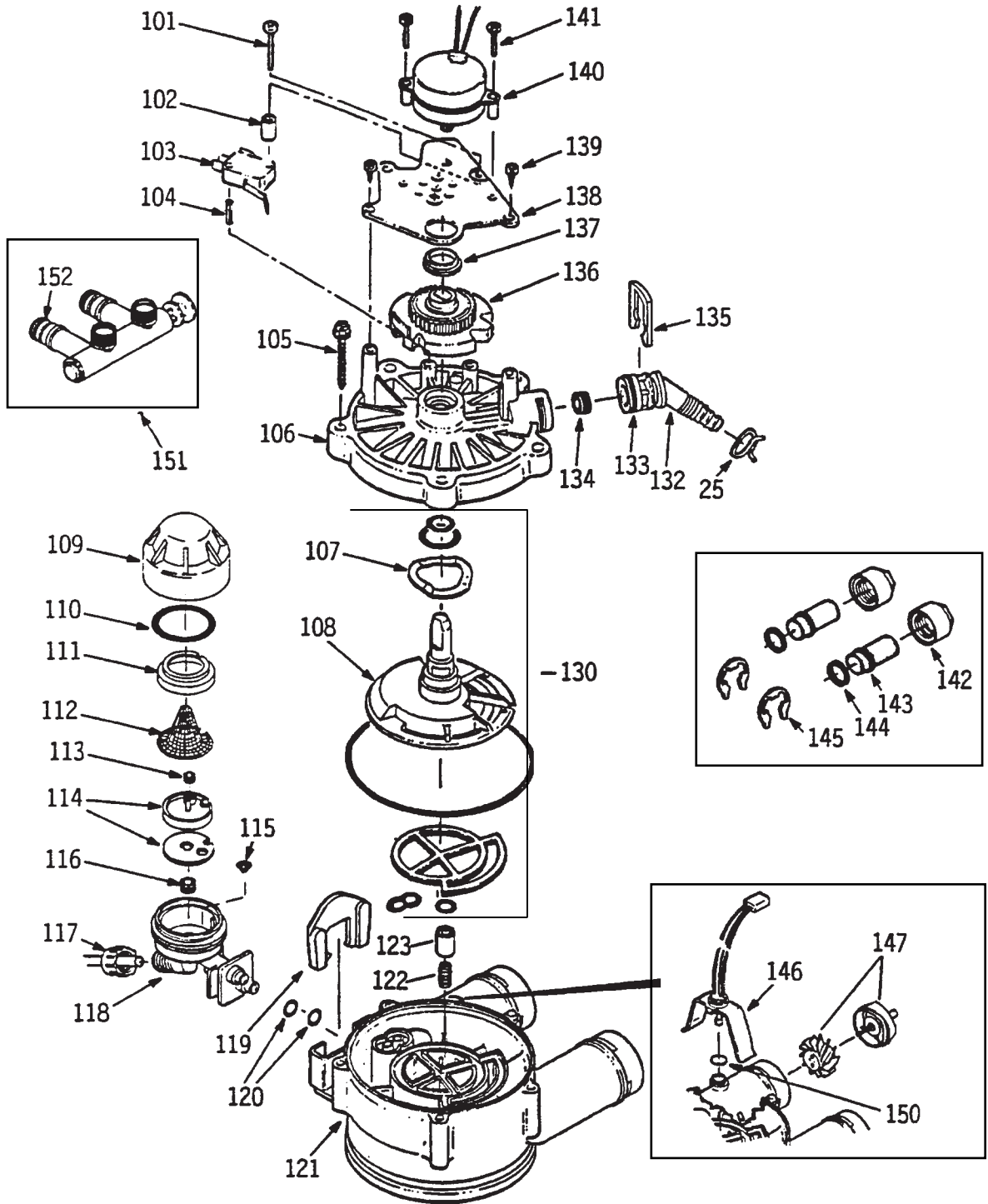
⑤ Determined by water analysis from a qualified water testing laboratory.





GENERAL ELECTRIC PARTS CATALOG

			G	P	G	G
			N	N	N	N
			S	S	S	S
			F	F	F	F
			2	3	1	3
			3	1	8	5
			Z	Z	Z	Z
			0	0	0	0
			1	1	1	1
REF. NO.	PART NO.	PART DESCRIPTION				
0003	WS35X10001	O-RING SEAL KIT	1	1	1	1
0004	WS34X10003	DECAL	-	-	-	-
	WS34X10002	DECAL	-	1	-	-
	WS34X10001	DECAL	1	-	1	1
0005	WS07X10004	HOSE DRAIN, 20 FT.	1	1	1	1
0007	WS14X10002	DISTRIBUTOR TOP	1	1	1	1
0008	WS14X10001	DISTRIBUTOR BOTTOM	1	1	1	1
0009	WS01X10002	RESIN - 1 CU. FT.	1	1	1	1
0010	WS32X10001	TANK RESIN	1	-	-	-
	WS32X10004	TANK RESIN	-	1	-	-
		TANK RESIN	-	-	1	1
		TANK RESIN	-	-	1	-
0011	WS31X10001	COVER BOTTOM	1	1	1	1
0012	WS31X10002	COVER CONTROL	1	1	1	1
	WS31X10008	COVER CONTROL	-	-	-	-
0013	WS21X10004	CONTROL	-	-	-	-
	WS21X10002	CONTROL	1	1	1	1
0014	WS19X10003	HARNESS WIRE	1	1	1	1
0015	WS06X10003	POWER CORD	1	1	1	1
0016	WS26X10001	TRANSFORMER	1	1	1	1
0017	WS31X10010	COVER SALT HOLE	1	1	1	1
0018	WS33X10001	SEAL VAPOR BARRIER	1	-	1	1
	WS33X10003	SEAL VAPOR BARRIER	-	1	-	-
0019	WS33X10002	RIM	1	1	1	1
0020	WS31X10011	COVER BRINEWELL	-	1	-	-
	WS31X10003	COVER BRINEWELL	1	-	1	1
0021	WS02X10009	WING NUT, 1/4" - 20	1	1	1	1
0022	WS32X10002	TANK BRINEWELL, ROUND	1	1	1	1
0023	WS02X10011	SCREW, 1/4" - 20 NYLON	1	1	1	1
0024	WS32X10005	TANK BRINE, RECTANGULAR	-	1	-	-
	WS32X10003	TANK BRINE, ROUND	1	-	1	1
0025	WS18X10003	CLAMP HOSE	1	1	1	1
0026	WS22X10016	ADAPTER HOSE	1	1	1	1
0027	WS22X10017	GROMMET	1	1	1	1
0028	WS35X10002	GROUND CLAMP KIT	1	1	1	1
0029	WS15X10005	BRINE VALVE ASM.	1	1	1	1
0030	WS35X10003	FLOAT, STEM & GUIDE ASM.	1	1	1	1
0031	WS03X10006	CLIP	1	1	1	1
0032	WS15X10006	VALVE BODY, BRINE	1	1	1	1
0033	WS03X10007	CLIP	1	1	1	1
0034	WS03X10008	SCREEN	1	1	1	1
0035	WS07X10002	TUBING ASM.	1	1	1	1
0036	WS07X10003	TUBE BRINE	1	1	1	1
0037	WS31X10004	COVER REAR	1	1	1	1
0038	WS31X10005	COVER SALT FILL	1	1	1	1
0055	WS28X10003	RETAINER CLAMP	2	2	2	2
0056	WS28X10004	CLAMP	2	2	2	2
0999	49-5799	PM MANUAL USE & CARE	1	-	1	1
	49-5806	PM INSTRUCTION INSTALL	1	1	1	1
	49-5805	PM INSTRUCTION INSTALL	-	-	-	-
	49-5800	PM MANUAL USE & CARE	-	1	-	-
	49-5801	PM MANUAL USE & CARE	-	-	-	-



GENERAL ELECTRIC PARTS CATALOG

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 N N N N
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 F F F F
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 3 1 8 5
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REF. NO.	PART NO.	PART DESCRIPTION				
0025	WS18X10003	CLAMP HOSE	1	1	1	1
0101	WS02X10012	SCREW, #4 - 24 X 1-1/8"	1	1	1	1
0102	WS02X10013	SPACER	1	1	1	1
0103	WS21X10003	SWITCH	1	1	1	1
0104	WS03X10009	PIN EXPANSION	1	1	1	1
0105	WS02X10014	SCREW, #10 - 14 X 2"	5	5	5	5
0106	WS31X10006	COVER VALVE	1	1	1	1
0107	WS03X10010	WASHER WAVE	1	1	1	1
0108	WS26X10002	ROTOR & DISC	1	1	1	1
0109	WS19X10004	CAP	1	1	1	1
0110	WS03X10011	SEAL O-RING 1.1" X 1.4"	1	1	1	1
0111	WS19X10005	SUPPORT SCREEN	1	1	1	1
0112	WS03X10013	SCREEN	1	1	1	1
0113	WS22X10020	FLOW PLUG, .1 GPM	1	-	1	1
0114	WS08X10005	GASKET, NOZZLE/VENT	1	1	1	1
0115	WS03X10015	CONE SCREEN	1	1	1	1
0116	WS22X10021	PLUG, FILL FLOW, .3 GPM	1	1	1	1
0117	WS03X10017	NUT FERRULE	1	1	1	1
0118	WS15X10009	NOZZLE/VENTURI ASM.	1	-	1	1
	WS15X10017	NOZZLE/VENTURI ASM.	-	1	-	-
0119	WS03X10018	RETAINER	1	1	1	1
0120	WS03X10019	SEAL O-RING 1/4" X 3/8"	2	2	2	2
0121	WS15X10010	BODY VALVE	1	1	1	1
0122	WS03X10020	SPRING	1	1	1	1
0123	WS22X10022	PLUG, DRAIN SALT	1	1	1	1
0130	WS35X10005	SEAL KIT	1	1	1	1
0132	WS22X10023	ADAPTER DRAIN HOSE	1	1	1	1
0133	WS03X10021	O-RING 5/8" X 13/16"	1	1	1	1
0134	WS03X10031	PLUG FLOW, RINSE CONTROL	-	1	-	-
	WS03X10022	PLUG FLOW, RINSE CONTROL	1	-	1	1
0135	WS03X10023	CLIP	1	1	1	1
0136	WS26X10003	CAM & GEAR	1	1	1	1
0137	WS26X10004	BEARING	1	1	1	1
0138	WS26X10005	PLATE MOTOR	1	1	1	1
0139	WS02X10015	SCREW, #6 - 20 X 3/8"	2	2	2	2
0140	WS26X10006	MOTOR ASM.	1	1	1	1
0141	WS02X10016	SCREW, #6 - 20 X 7/8"	2	2	2	2
0142	WS60X10001	NUT INSTALLATION	2	2	2	2
0143	WS60X10002	TUBE INSTALLATION	2	2	2	2
0144	WS60X10003	WASHER	2	2	2	2
0145	WS60X10004	CLIP	2	2	2	2
0146	WS28X10005	HOUSING SENSOR	1	1	1	1
0147	WS19X10006	TURBINE & SUPPORT ASM.	1	1	1	1
0150	WS03X10024	SEAL, O-RING	1	1	1	1
0151	WS15X10012	VALVE BYPASS ASM.	1	1	1	1
0152	WS03X10025	SEAL, O-RING	2	2	2	2

