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# Waterboss 900 installation manual

INSTALLATION AND SERVICE MANUAL WaterBoss® 4343 S. Hamilton Road, Groveport, Ohio 43125 Model 550, 700 and 900 Water Softeners Version 4 INSTALLATION AND SERVICE MANUAL, Model 550, 700 and 900 Water Softeners Version 4 WaterBoss® 4343 S. Table of Contents QUESTIONS? ..... 4 REFERENCE  
..... 1 GETTING MAXIMUM EFFICIENCY FROM YOUR APPLIANCE ..... 2 CHECKLIST BEFORE INSTALLATION ..... 3 DO'S AND DON'TS ..... 4  
ILLUSTRATIONS ..... Questions From 8 am to 5 pm EST, use the 800 HelpLine: 1-800-437-8993 The HelpLine is available to help answer questions about specific water problems, appliance installation and operation. When calling the HelpLine, please have this guide and the serial number of your appliance available. Your serial number may be found on top of your valve assembly (See figures 2-3. How To Get The Maximum Efficiency From Your Appliance 1. Fill salt cabinet when water level is above salt level. DO NOT MIX DIFFERENT TYPES OF SALT. If iron is present in your water, use a salt with an iron-cleaning additive to help keep resin clean. You may also use a resin cleaner on a monthly basis in place of salt with cleaning additives. If iron is not present in your water, a clean pellet, solar or cube type salt is recommended. Checklist Before Installation 1. Water Pressure - Not less than 20 psi constant for softeners. 2. Double check hardness - of water with test strips provided to verify that your appliance is right for the job. Model 550 FOR MUNICIPALLY-SUPPLIED WATER is for water without iron and up to 25 grains of hardness per gallon. Model 700 for up to 70 grains hardness per gallon. (See specifications, page 30.) 3. Do's And Don'ts SOME DO'S 1. Do comply with all local plumbing and electrical codes. 2. Do install pressure-reducing valve if inlet pressure exceeds 90 psi. 3. Do not install gravity drain on salt storage cabinet. See figure 7. 4. Do secure drain line on appliance and at drain outlet. See figure 3. 5. Do allow a minimum of 8 to 10 feet of 3/4" pipe from the outlet of the water conditioner to the inlet of the water heater. See figure 1. SOME DON'TS 1. Do not install if checklist items are not satisfactory. 2. Reference illustrations Figure 1 - Installation Guide Use this diagram as a location and installation guide for your Model 550, Model 700, and Model 900, water conditioners. This diagram applies to all types of installations (i.e. basement, slab, crawl space, outside). Bypass Valves. To simplify installation and servicing, a one-piece or a three way bypass valve appliance is recommended when installing your appliance. A bypass appliance also provides access to untreated water when required (i.e. Reference illustrations Figure 2 Figure 3 PLUMBING CONNECTIONS CONNECTING DRAIN LINE CAUTION! The drain line must not be kinked, crimped or restricted in any way. The drain line should be a minimum 1/2" inside diameter and cannot be reduced in size. Teflon® Tape INSTALLATION TIP When preparing the male threaded fittings of the I/O adapter, follow the guidelines to avoid damage to the plastic pipe threads. 1. Reference illustrations Figure 4 - Bypass Valve Optional Bypass Valve Part #93884 may be available through your local hardware store, plumber or call our HelpLine 1-800-437-8993 From 8 am to 5 pm EST. to order. for service or bypass. Reference illustrations Figure 7 OVERFLOW CONNECTION (1/2" I.D.) Figure 8 PLUGGING IN TRANSFORMER Do not plug transformer into an outlet that is controlled by on/off switch. When calling the HelpLine, please have this guide and the serial number available. From 8 am to 5 pm EST, call 1-800-437-8993. Your serial number may be found on top of your valve assembly. Reference illustrations Figure 9 Figure 10 ADDING SALT TO THE BRINE CABINET 2 GALLONS 9 Cycles Water by-passes your appliance during regeneration to allow iron, sediment, hardness, etc. to be washed down the drain. After regeneration, the appliance returns to service, providing your home with treated water. Regeneration cycles: 1. First up-flow backwash. A rapid up-flow of water flushes out the resin bed and cleans the sediment filter. 2. Brine. Brine is drawn out of the brine cabinet and up through the media tank, cleaning the resin bed and releasing accumulated hardness and iron. 3. Installation And Start-Up Procedures Each water conditioning appliance includes water test strips and 8' of drain line. CAUTION: Be sure the controller is firmly "locked" onto the drive end cap assembly. The four tabs on top of the drive end cap will allow the clips on the bottom of the controller case to lock onto the end cap tabs. (See detail diagram on page 16. Fig. 11.) 1. Placement: Place your appliance in desired location. Turn off electricity and water supply to water heater. Installation And Start-Up Procedures 8. Setting Number. For Models 700, 900, and 550 for municipally-supplied water, determine your controller setting number. Do not guess at the setting; continued water quality problems or damage to the appliance could result. Municipal water - call your local water company to determine your water hardness in grains per gallon. This will be your setting number. Setting The 4 Button Controller DEMAND REGENERATION You won't have to worry about vacation settings or extra guests because the controller measures water usage and regenerates based on need. The appliance will regenerate using only the necessary amount of water and salt. If power has been turned off, your appliance will retain programmed settings indefinitely. See figure 9. 1) ENTERING YOUR HARDNESS SETTING See page 12 for determining your setting number. Push the "SET" button for about 5 seconds. Setting The Controller - Continued ADVANCED CUSTOMER SETTINGS: Your appliance can be programmed for High Capacity (HC) or High Efficiency (HE). High Capacity means the appliance will regenerate less often, but use more salt. High Efficiency will make the appliance regenerate more often and use less salt. See Specification/Capacity Chart, pg. 25. 1. Hold down SET and CHANGE for 3 seconds to enter advanced customer settings mode. Setting The Controller - Continued 7. "Set Time" and "12" is now lit. To set the time, press and hold the CHANGE button to advance the numerical display, and switch from "PM" to "AM" if appropriate. Note: set the time to the nearest hour. Pressing and releasing the SET button will save the time displayed and advance to the next menu. Pressing and releasing the SET button will advance programming to the next step. Default is 12 PM. 8. "Set Reg. Time" and "02" is now displayed. Care, Maintenance and Parts Figure 11 1 2 3 4 5 6 7 PART# 54306 54324 54540-550 54540-700 54540-900 93245 54303 54309 54305 93530-CITY 93530 95505 DESCRIPTION QUANTITY Salt Port Lid 1 Valve Cover Assembly 1 Computer Control Assembly 1 Computer Control Assembly 1 12V Transformer/Power Cord 1 Cabinet. 550 / 700 1 Cabinet. Care, Maintenance and Parts Figure 12 - Cabinet and Assemblies 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 PART# C0700A 54510 93839 93281 93272 93808 90828 95301 JG 93870 93848 93501 93835 93524 90614-3. Care, Maintenance and Parts Figure 13 - Injector Assembly 1 2 3 4 5 6 7 PART# 93810 93223 93220 93221 93232 93222 90807 DESCRIPTION Injector Screen Injector Throat Injector Seal Injector Nozzle Top Injector Seal (Thin) Injector Cap Screw 93501 includes all of the above. Care, Maintenance and Parts Figure 14 - I/O Adapter Assembly 1 2 3 4 5 6 7 PART# 54131 90232 90809 93858 90522 93229 93838 DESCRIPTION 3/4" IO Adapter Turbine Sensor Cap Sensor Cap Screw Turbine Sensor Assembly Turbine Assembly Flow Director "O" Ring 54510 includes all of the above. Care, Maintenance and Parts Figure 15 - Drive End Cap Assembly 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 PART# 90802 90217 93891 93238 90809 93219 93217 93583 93216 90818 93601-JG 90821 54502 90828 93808 93522-A 93839 DESCRIPTION Screw Drive Motor 1/4" Hex Nut Drive Gear Screw, Cam Cover Piston Slide Cam Drive End Cap Piston Slide Cam Drive End Cap Piston Slide Screw Brine Valve Housing Ass'ly O-Ring Magnet Disk Assembly O-Ring O-Ring Drive Piston Ass'ly Drain Gasket 20 QUANTITY 2 1 2 1 2 1 1 1 2 1 1 1 1 1 Care, Maintenance and Parts Figure 16 - Brine Valve Housing Assembly Concave Side 1 PART# 93620 2 3 4 5 6 7 8 9 10 90821 93260 93878 93254 90843 93805 93243-JG 200199 90807 DESCRIPTION QUANTITY Piston Assembly 1 (includes O-ring & Spring) O-ring 1 Housing 1 Quad Ring 1 Quad Ring Retainer 1 .5 pm Flow Control 1 O-ring 1 Housing Cap Assembly (John Guest) 1 3/8" Locking Clip 1 Screw 2 93601-JG includes all of the above. Care, Maintenance and Parts Figure 17 - Safety Shutoff Assembly 1 2 3 4 PART# 54226 54227 54228 54229 DESCRIPTION Safety Shutoff Float Air Check, 550 & 700 Air Check, 900 22 QUANTITY 1 1 1 1 Care, Maintenance and Parts Figure 18 - Brine Valve Elbow Assembly 23 Care, Maintenance and Parts Figure 19 - Bottom Fill Plug Assembly 1 2 PART# 90238 90819 DESCRIPTION Fill Plug O-ring 24 QUANTITY 1 25 Specifications/Capacity Chart 700 900 550 70 90 25 10 ppm 10 ppm 0 7 7 7 Power Clean Filter Media Super Fine Mesh Resin - 7 cu. ft. Power Clean Filter Media Super Fine Mesh Resin - 1 cu. ft. Super Fine Mesh Resin - .5 cu. ft. Salt usage (lbs.) / Capacity (HC - High Capacity) 6.5 / 17,800 7.5 / 27,000 5.0 / 11,500 Salt usage (lbs.) / Capacity (HE - High Efficiency) 2.5 / 10,500 6.0 / 24,000 1.25 / 5,000 120°F 120°F 10.5 X 14" I.D. 10.5 X 21" I.D. 10.5 X 14" I.D. Troubleshooting Problem Cause Solution No soft water after regeneration. No salt in brine cabinet. Add salt (refer to "Regenerate" Page 13) Sediment in brine tank has plugged the brine line and air check. Remove air check draw tube and flush with clean water. Clean injector assembly. Clean any sediment from brine cabinet. Drain line is pinched, frozen or restricted. Straighten, thaw or unclog the drain line. Clogged injector assembly (page 18). Troubleshooting Problem Cause Solution Read-out lights do not glow. Defective circuit board (fig. 9). With 12 VAC present at controller, replace circuit board. Unit stays in regeneration. Cycle numbers remain flashing. Computer control not attached properly. Make sure computer control is pushed all the way onto drive end cap. Foreign object in valve body. Remove foreign objects from valve body. Broken valve assembly. Motor running. Magnet disc not turning (page 20). Repair drive end cap. Limited Warranty CONSEQUENTIAL OR SECONDARY DAMAGES. To Whom Warranty is Extended This warranty is issued to the original owner at the original location site and is not transferable to other sites or to subsequent owners of the appliance. ANY IMPLIED WARRANTIES ON THE PRODUCT DESCRIBED IN THIS WARRANTY WILL NOT BE EFFECTIVE AFTER THE EXPIRATION OF THIS WARRANTY. Notes When calling the HelpLine, please have this guide and the serial number available. From 8 am to 5 pm EST, call 1-800-437-8993. Your serial number may be found on top of your valve assembly. UL® © 1998 WaterBoss® P.O. Page 2 From 8 am to 5 pm EST, use the 800 HelpLine: 1-800-437-8993 The HelpLine is available to help answer questions about specific water problems, appliance installation and operation. When calling the HelpLine, please have this guide and the serial number of your appliance available. Your serial number may be found on top of your valve assembly (See figures 2-3.) Date of Installation: \_\_\_\_\_ Model Number: \_\_\_\_\_ Serial Number: \_\_\_\_\_ Returned Limited warranty Card Date: \_\_\_\_\_



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