

INSTALLATION OPERATIONS OWNERSHIP GUIDE

Model: B1B-50100

Whole House  **Water System**

 **Five-O** 



You deserve better.
Quality. Reliability. Value.

Whole House  Water System
Five-O



superiorwatersales.com
(888) 323.5689



INSTALLATION & OPERATING GUIDE:

Five-O Series System

Model B1B-50100

Please carefully read this guide prior to beginning the installation process.

All steps provided herein are for typical installations only.

We strongly recommend the installation of the Five-O Series systems be installed by a licensed professional contractor in order to ensure optimum service, safety and reliability.

Typical installation should take no more than 4-6 hours.

Be sure to gather any necessary supplies prior to beginning installation.

Five-O Water Systems can safely handle a water pressure range of 25-80 psi.

For best operation, an operating range of 60 psi is recommended.

Do not locate any Five-O Unit where it or its connections (including drain lines) will ever be subjected to temperatures under 34°F

WARNING: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Intended for use with cold water only. Do not exceed 80 psi. Intended for residential use only.

NOTE: The Five-O Systems are intended for treatment of potable water provided by municipal water providers. While the Five-O Series system may be effective for treatment of Well Water it is vital that a well water quality analysis be provided for review PRIOR TO INSTALLATION in order to ensure that optimum results will be delivered.



Whole House Water System



INSTALLATION - OPERATIONS - OWNERSHIP GUIDE

Model: B1B-50100

Once installed, the **Five-O Series** system is a maintenance free whole house water treatment system. Each system includes a pre-programmed fully automatic Clack (Made in USA) valve that runs a self-rinsing cycle every 7 days.

The media inside the tank include premium grade high activity catalytic granular activated carbon in addition to three sediment filtration (polishing) media to deliver crystal clear, great tasting water throughout the home.

The **Superior Water Conditioner** is the final stage of treatment before the water is delivered to the house. This unit is integrated in to the riser tube of the system and treats the minerals that remain in the water so that they stay suspended in the water flow and when they do precipitate out, they do so as an aragonite "talc" that is easily removed with a damp cloth.

The **Superior Water Conditioner** is chemical free and works in concert with the filtration media to deliver a an integrated treatment solution that not only improves household water quality, but also protects the household plumbing, fixtures and appliances from hard water damage.

- OVERVIEW
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- SYSTEM INSTALLATION
- CHARGING THE SYSTEM
- PROGRAM SET-UP
- QUICK REFERENCE
- TROUBLESHOOTING
- TIPS & BEST PRACTICES
- CARBON DATA
- WARRANTY



OVERVIEW

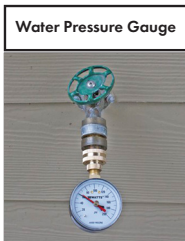
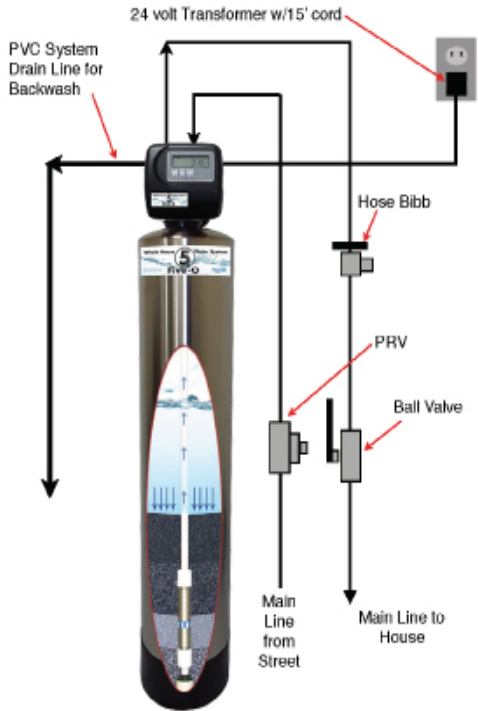
Whole House Water System



System	Tank Size	Wt. (lbs.)	H. (in.)	W. (in.)	Depth (in.)	Inlet/Outlet (in.)	Flow Rate (GPM)
B1B-50100	10" x 54"	94	61	10	10	1"	8GPM

Five-O System INSTALLATION AT A GLANCE

1. Plumb Inlet/Outlet to system at Main Point of Entry.
2. Plumb system drain line.
3. Fill System (slowly)
4. Flush system with Hose Bibb (20 mins)
5. Force BACKWASH (10 mins).
6. Flush system with Hose Bibb (20 mins)
7. Force BACKWASH (10 mins.).
8. Final Flush with Hose Bibb (20 mins).
9. Verify Backwash Program
10. Open system to household.
11. Test for Chlorine at Hose Bibb and Kitchen Sink and show customer results.



**DO NOT
EXCEED
WATER
PRESSURE
OF 80 PSI.**

WARNING: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Intended for use with cold water only. Do not exceed 80 psi. Intended for residential use only.



PRE-INSTALLATION

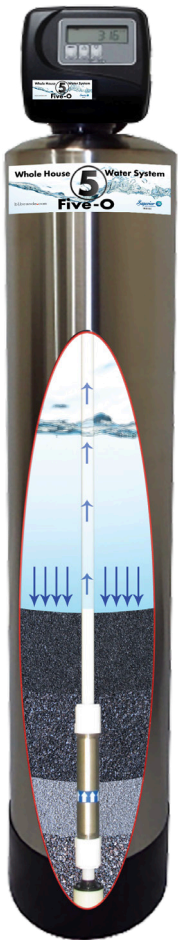
1. All installations are to be done in accordance with any local codes.
2. Do not use water that is micro-biologically unsafe or of unknown quality without adequate disinfection before or after the system.
3. Five-O systems are to be installed on the main water line going into the building.
4. Water pressure cannot exceed 80 psi. If daytime water pressure is above 65 psi a pressure regulator is required.
5. All Five-O systems have a drain line with a restrictive washer to control the backwash flow rate.
6. The Five-O system comes pre-programmed and will automatically backwash every 7 days. This cycle will use about 35 gallons of water over the 10 minute cycle.
7. The Five-O unit should be located in a protected, dry, level and non-freezing area, such as a garage, laundry room. In some areas with moderate climates the unit can be installed outdoors and can also be buried provided a minimum 6" clearance is maintained below the control valve.
8. The drain outlet has a 3/4" threaded fitting. We recommend a matching size PVC drain fitting be used. Please always follow local plumbing codes when installing the drain line. The drain line is pressurized so it can be run slightly uphill if necessary.
9. The unit requires power from a standard 2-prong, 120V, grounded outlet that is not controlled by a switch. The Five-O control valve includes a 15' power cord, but you can use an extension cord if an outlet is not nearby. Please follow any local building/safety codes if you need to use an extension cord.
10. Make a list of all the plumbing fittings you will need to completely install the system to make it ready for operation. Brass reducers may be necessary.
11. Assemble all tools needed to install the system and start your installation.
12. Now go ahead, open the box and get started!

CONTENTS

The Five-O system arrives in one carton and comes pre-assembled and pre-programmed.

After inspecting the outer carton for any damage, slide top section of carton off or open at top. Inside on top of valve will be the items pictured below.

Note the Serial Number of the System here: _____



FIVE-O SYSTEM



Bypass Subassembly



System Guide



Sweat Adapters



Valve Guide



Elbow Adapters



BAN-T



FIVE-O SYSTEM INSTALLATION

Locate the plastic bags containing the Bypass Assemblies, Brass Adapters and plastic fittings.

Each of the following items need to be put aside because you will not need them during installation but you will need to leave them with homeowner when installation is complete:

- The Five-O Series Warranty
- The Valve Installation and Operation Manual
- The Five-O Series System Guide

1. Determine Five-O Series installation location.

**NOTE* As you look at the rear of the Five-O Series control valve, the inlet water line will always enter the hole on the LEFT SIDE of the bypass valve assembly. The control valve assembly has an arrow indicating water flow direction on top of the assembly.*

2. If a recirculation pump is present, turn off power to prevent damage.

3. Turn off the main water valve and drain water from the main line.

4. Cut and remove a section of the main incoming water line entering the home where the system is to be installed to ensure the system is treating all water entering the home (both hot and cold water). If a pressure regulator is on the system, install the Five-O Series downstream of the regulator. Allow this line to drain thoroughly.

5. You need to install the ball valve and hose bibb on the outlet side of the unit see diagram page 3

6. Solder adapters in place on inlet and outlet piping.

7. Once cooled; apply nut, split ring and o-ring.

Do not over-tighten adapters!

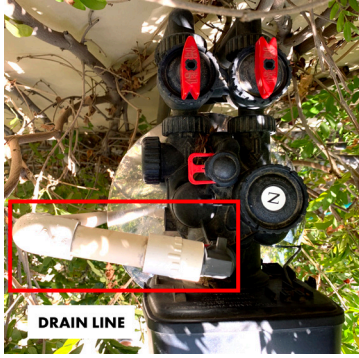
8. After all soldering is finished and the adapters are securely attached to the bypass assembly, then attach the bypass assembly to the control valve and secure it using the black plastic fittings.

Five-O Series is now in place and ready for charging.

9. Place the bypass valve in the "Service" or "Bypass" position to test solder joints.

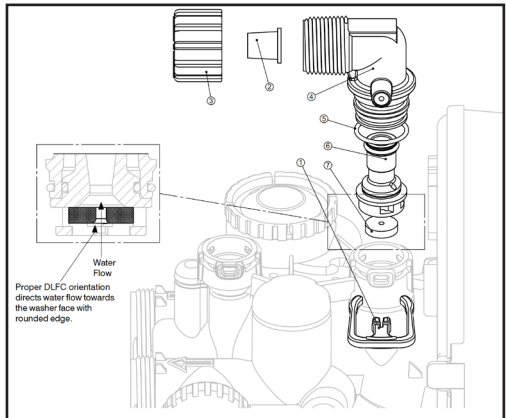
10. SLOWLY Turn on water to test for leaks in pipes supplying the Five-O Series system.

DRAIN LINE INSTALLATION



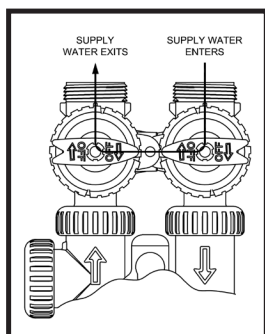
1. The FIVE-O Series control valve has a threaded plastic swivel drain connection located directly behind the electronic control valve.
2. Attach a PVC schedule 40 drain line to the drain fitting and run to an appropriate discharge area such as a flower bed, utility sink or area drain. Remember to leave a small air gap at the end of the hose if feeding into a house drain (please follow local plumbing codes).
3. When backwashing, water will flow from the drain line with a fair amount of pressure and the line may “jump” slightly when changing cycles.
4. Maximum height for the drain is 102 inches above the floor.
5. Maximum length is 15 feet. You must increase the pipe size to 1” after 15 feet up to 30 feet.

DRAIN LINE 3/4”

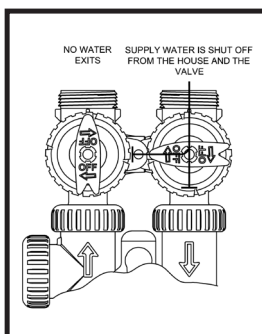




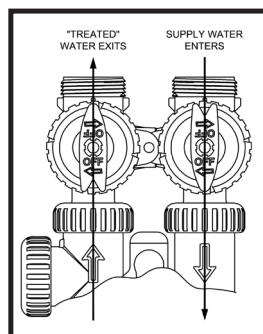
CHARGING THE SYSTEM



BYPASS MODE



SHUTOFF MODE



SERVICE MODE

1. Keep the bypass valve in the "Bypass" position
2. Make sure the water main is turned on. (Slowly)
3. Close the new ball valve. **IMPORTANT**
Failure to close ball valve to house will result in carbon fines entering your household water supply system and making it difficult to remove them
4. Open the intake side of the bypass valve to allow the FIVE-O Series tank to fill with water.
5. This will take less than five minutes.
6. Gradually open the outlet side of the bypass valve halfway and check for leaks.
7. If everything is leak-free, completely open the outlet side of the bypass valve.
8. Open the new Hose Bibb and allow the water to run ten minutes or until the water becomes consistently clear.
9. Close the Hose Bib when the water runs clear. Now force a Regeneration Simultaneously presses the up and down arrow button at the same time until the Regeneration cycle begins. Water will run 10 minutes.
10. When regeneration is complete repeat 8 and 9 one more time.

FIVE-O Series installation is now complete and it is time to program.



BACKWASH PROGRAM SET UP

STEP 1: Set Time of Day

- Press "SET HOUR" button once and then use the ▲ or ▼ buttons to select the appropriate current hour of the day. (Please note the hour is AM unless PM is indicated by a ► pointing toward the PM on the right side of the display screen)
- Press "SET HOUR" again to exit once the hour is correct.

STEP 2: Select System Backwash Settings

- Press "SET HOUR" and the ▲ button simultaneously for 3 seconds until the digital display begins to flash. This screen will allow you to set the time for regeneration of the FIVE-O Series unit. 2 A.M. is the factory default setting (If you see anything other than 2 A.M., press the ▲ and ▼ buttons to adjust the time for regeneration. Again, 2 A.M. is recommended.)
- Press "SET HOUR" to accept the setting and to advance to the next step in the programming process. You will see 4 days to regeneration.

STEP 3: Set Day`s to backwash by using the▲or▼buttons.

7 Days are recommended always!

- For 1 person set 11 day`s
- For 2-3 people set 9 day`s
- For 4 or more set 7 day`s

STEP 4: Press "SET HOUR"

- You will return to the Current time of day.

STEP 5: Verify System Backwash Program "P7"

- Press "SET HOUR" and the ▲ button simultaneously for 3 seconds until you see the Time for Regeneration Screen (the number 2 should display) with the Flashing Arrow pointing toward "Regen" at the bottom left corner of the screen
- Press "SET HOUR" and the▲ button simultaneously for another 3 seconds until you see the program screen. This screen should display "P7"
- If this screen does not display "P7", Press the ▲ or ▼ buttons until P7 is selected (P7 provides a 10 minute system regeneration consisting of a 6 minute backwash and a 4 minute rinse)



BCKWSH PROG SET UP - CONT'D.

STEP 5: CONTINUED

- Press "SET HOUR" to accept this setting (a blinking arrow with dashes will appear pointing to Min. Fill)
- Press "SET HOUR" button again

STEP 6: Confirm Day To Regeneration Cycle

- You should now see the number "99" with a blinking arrow next to "Days to Regen" in the bottom right hand corner of the screen (this indicates days to regeneration)
- If you see the number "7" instead of the number "99" press the ▲ or ▼ button until the number "99" appears and then Press "SET HOUR" to accept this setting (the number 60 will appear with flashing arrows)
- Press "SET HOUR" again (dP will flash along with an arrow pointing to Regen Hour in the bottom left hand corner of the screen)
- Press "SET HOUR" button once more to return to the main screen

STEP 7: Main Screen Now Displays Time of Day

Press the▲ or ▼ buttons to toggle between "Time of Day" and "Days Until Next System Regeneration"

Confirm the next system regeneration is scheduled for number of days you selected in step 3.

Programming Is Now Complete!

STEP 8: It Is Now Essential You Force 2 System Regenerations

STEP 9: Now run water from each fixture in the home for 2 minutes to completely flush the system.

- If water remains cloudy and won't run clear, Repeat STEPS 8 & 9
- Flush the fixtures one more time and thoroughly clean any carbon residue from each fixture.
- If steps 8 & 9 are not accomplished, it is likely the customer will complain about water quality and gray water.



FREQUENTLY ASKED QUESTIONS

What is the difference between a FIVE-O and a Water Softener?

The differences are profound. It is not an apples to apples comparison.

While many softeners are comparable or priced higher than the FIVE-O, traditional water softeners are a more expensive, less effective way to address hard water scale and corrosion, and actually add more contaminants into household water supplies and the environment. For a detailed comparison please see the side by side comparison of "FIVE-O vs. Traditional Softeners"

What is the maintenance schedule on a FIVE-O?

The FIVE-O is MAINTENANCE FREE

The SUPERIOR WATER CONDITIONER is MAINTENANCE FREE

NOTE: In a home with 4 people, the water heater will need to be flushed (of dissolved solids) 3-4 months after installation of the FIVE-O, or any other HALO solution that includes the SUPERIOR WATER CONDITIONER. This is because the SUPERIOR WATER CONDITIONER water conditioner will dissolve existing scale, prevent new scale formation and inhibit hard water corrosion.

How much water is used during backwash cycle?

The FIVE-O system comes pre-programmed to backwash once a week. This is a 10-minute program that includes 6 minutes of fluidizing the media bed and 4 minutes of compaction. Ask about Zero Waste Solution the Model B1b-50100 (FIVE-O Stage - 1") System - Approx. 3.5 gallons per minute

NOTE: The water that is discharged during the backwash cycle is actually cleaner than the water that came in from the street. It is not only safe but is GREAT for plants. The drain line water can be run to a flower bed, a tree well, or even a grey water, or irrigation system.

How does the FIVE-O clean itself with no filters?

It automatically backwashes once a week.

This is not so much to clean the system, but really to reset the media bed and prevent "channeling". "Channeling" is water passing through the least resistant path of the granule bed avoiding contact time with carbon resulting in lower effectiveness.

FUN FACT: 1 gram of Activated Carbon has enough surface area to cover a football field

What separates the FIVE-O from other systems?

Quality. Value. Reliability.

How do we know when the FIVE-O media is at its end of life?

On the B1B-50100 unit, after approximately 1 Million gallons of usage. If the treated water tests positive for Chlorine (>0.5 ppm)



FREQUENTLY ASKED QUESTIONS - 2

What are the warranties?

Warranty 10 years on the Tank.

10 years on Stainless Steel Cover

10 Years on the SUPERIOR WATER CONDITIONER

5 Years on the Control Head

5 Years on the Media

SUPERIOR WATER CONDITIONER - 10 Limited Year Warranty

How much is replacement cost when media reaches end of life?

Call us for details

What are the Commercial Uses for the Superior Water Conditioner?

Heating & Boiler Applications

Cooling and Cooling Tower Applications

Food Service & Hospitality

Swimming Pool, Spa & Water Feature Applications

Agriculture and Irrigation Applications

What is the basic difference between a FIVE-O and bottled water?

HALO retains the minerals in the water.

HALO is available throughout the entire home for bathing, cooking and drinking water. HALO does NOT contain Xenoestrogens or BPA commonly found in bottled water.

HALO water costs about 1/1,000th as much as bottled water.

How does the SUPERIOR Inline Water Conditioner work?

The patented system, when installed in a water supply line, controls the formation of scale and corrosion deposits without the use of chemicals. Water passing through the alternating magnetic fields causes most minerals (iron excepted) to stay suspended in the water so they cannot form a hard, brittle scale. The entire process bonds calcium ions to each other rather than to your plumbing and plumbing fixtures

Water passes, under pressure, and with minimal turbulence, through alternating magnetic lines of force perpendicular to the water's flow direction. This causes a polarizing effect upon non-polar constituents in the water, and provides the energy of activation level necessary to cause the dissolved Calcium Carbonate (Calcite) CaCO_3 within the water to recombine and form "aragonite" (an amorphous powdery form) when the solubility limit is reached. Unlike crystalline CaCO_3 , aragonite can easily remain suspended in the water stream rather than attaching to system walls as "scale".



FREQUENTLY ASKED QUESTIONS - 3

The presence of aragonite in the water provides an additional benefit in terms of corrosion protection. A thin film of the soft aragonite, which normally forms as a result of long term magnetic treatment, actually prevents free oxygen within the water from attacking the metallic components through which the water travels, thus preventing corrosion.

How is the SWC different from traditional water softeners?

Most water hardness treatment systems use ion exchange with salt as a regenerate which can have adverse effects on our health and the environment. While ion exchange systems substitute salt (sodium) for calcium, the SUPERIOR WATER CONDITIONER™ Inline Water Conditioner transforms dissolved calcium to crystallized calcium. Calcium in its crystallized state is rendered harmless and free from its hard properties and scaling effects.

What is your product used for?

The SUPERIOR WATER CONDITIONER™ Inline Water Conditioner has several uses. It is primarily used for commercial applications where scale prevention is required, such as; water heater pretreatment, reverse osmosis pretreatment, etc. It is also used for residential applications where SUPERIOR WATER CONDITIONER™ water is desired for both taste and functional use.

What is special about the SUPERIOR Inline Water Conditioner?

The SUPERIOR WATER CONDITIONER™ Inline Water Conditioner has been in use since 1964. It is the most widely used, recognized and reliable maintenance-free system available today. In addition, recent local bans on soft water equipment or wastewater discharge permits are not applicable to this system.

What is so important about not using chemicals or sodium?

1. You are not spending money on them.
2. You are not ingesting them in part or in whole.
3. You are not adding to the pollution of the water supplies.

If the SUPERIOR WATER CONDITIONER™ does not use chemicals or sodium, what does it use?

Just water! The SUPERIOR WATER CONDITIONER™ alters the state of the water through a multi- stage magnetic process; it does not add anything to it.

Will the water test soft after the system is installed?

NO. Remember that the calcium is still present in the water but in an altered state. A test for hardness in reality is a test for the presence of minerals Calcium and Magnesium, which have naturally hard properties. The SUPERIOR WATER CONDITIONER™ Inline Water Conditioner renders these harmless.



FREQUENTLY ASKED QUESTIONS - 4

Won't the calcium crystals revert back to their dissolved state in my water heater?

The calcium crystals will remain suspended for approx.. 24 to 72 hours. Normal water usage indicates that a typical household will turn the hot water over in a correctly sized water heater at least once per day. This means that the suspended calcium crystals will be washed down the drain before they have the chance to revert back to a dissolved state. At times when the water does sit for example if you are away on vacation, as soon as water is drawn through the unit the water is conditioned and any water that has been converted back to hard will quickly wash through. This prevents any scale from building up over time.

PROGRAMMING QUICK REFERENCE

GENERAL OPERATION

When the system is operating one of two displays will be shown: time of day or days until the next regeneration. Pressing ▲ or ▼ button will toggle between the two choices.

Arrow will point to Regen if a regeneration is expected "Tonight."

TO SET TIME OF DAY

In the event of a prolonged power outage, time of day flashes, indicating that it needs to be reset. All other information will be stored in memory no matter how long the power outage. Please complete the steps as shown to the right. To access this mode, press "SET."

1. Accessed by pressing SET for approximately 5 seconds.
2. Adjust hour with ▲ or ▼. With 60 Hz line frequency detection on power-up, timekeeping is 12 hour with PM indicator. With 50 Hz line frequency detection on power-up, timekeeping is 24 hour without the PM indicator. Press SET to go to the next step.
3. Adjust minutes with ▲ or ▼.
4. Press SET to complete and return to normal operation.

TO SET TIME OF REGENERATION AND DAYS BETWEEN REGENERATION

For initial set-up or to make adjustments, please complete the steps as shown. Access this mode by pressing SET and ▲ for approximately 3 seconds. The number of days between regenerations may need to be varied based on usage and water conditions. (This step will not appear if the 7-day clock option is selected.)

1. Accessed by pressing SET and ▲ simultaneously for about 3 seconds.
2. Set Regeneration Time Hour. Set the time for regeneration to start. Press SET to go to the next step.
3. Set Regeneration Time Minutes. Press SET to go to the next step.
4. Set number of Days between regeneration cycles.
5. Press SET to complete and return to normal operation.



TROUBLESHOOTING

PROBLEM #1

TIMER DOES NOT DISPLAY TIME OF DAY

Possible Cause

- Transformer unplugged
- No electric power at outlet
- Defective transformer

Solution

- Connect Power
- Repair outlet or use working outlet
- Replace transformer
- Replace PC Board

PROBLEM #2

TIMER DOES NOT DISPLAY CORRECT TIME OF DAY

Possible Cause

- Switched outlet
- Power outage

Solution

- Use uninterrupted outlet
- Reset Time of Day
- Replace PC Board

PROBLEM #3

CONTROL VALVE REGENERATES AT WRONG TIME OF DAY

Possible Cause

- Power Outages
- Time of Day Not Set Correctly
- Time of Regeneration incorrect
- Control Valve Set at "on 0"

Solution

- Reset control valve to correct time of day
- Reset correct time of day
- Reset regeneration time
- Check control valve set up procedure regeneration time option
- Check control valve set up procedure regeneration time option



TROUBLESHOOTING

PROBLEM #4

CONTROL VALVE STALLED IN REGENERATION

Possible Cause

- Motor not operating

Solution

- Replace motor
- Repair outlet or use working outlet
- Broken drive gear or drive cap assembly
- Broken piston retainer
- Replace transformer
- Replace PC Board
- Replace drive gear or drive cap assembly
- Replace drive cap assembly
- Replace main or regenerate piston

PROBLEM #5

CONTROL VALVE DOES NOT REGENERATE AUTOMATICALLY WHEN REGEN BUTTON IS DEPRESSED AND HELD

Possible Cause

- Transformer unplugged
- No electric power at outlet
- Defective transformer
- Broken drive gear or drive cap assembly

Solution

- Connect transformer
- Repair outlet or use working outlet
- Replace transformer
- Replace drive gear or drive cap assembly
- Replace PC Board



TROUBLESHOOTING

PROBLEM: ERROR CODES

- **E1 – Unable to recognize start of Regeneration**
- **E2 – Unexpected stall**
- **E3 – Motor timed out trying to reach next cycle position**
- **E4 – Motor timed out trying to reach home position**

Possible Cause

- Control valve has just been serviced
- Foreign matter is lodged in control valve
- High drive forces on piston
- Control Valve piston not in home position
- Motor not inserted fully to engage pinion, motor wires broken or disconnected, motor failure
- Drive gear label dirty or damaged, missing or broken gear
- Drive bracket incorrectly aligned to back plate
- PC Board damaged or defective

Solution

- Press ▲ and SET HOUR for 3 secs, or unplug power source jack (black wire) and plug back in to reset control valve
- Check piston(s) and spacer stack assembly
- Replace piston(s) and spacer stack assembly
- Press ▲ and SET HOUR for 3 secs, or unplug power source jack (black wire) and plug back in to reset control valve
- Check motor and wiring. Replace motor if necessary
- Clean or Replace drive gear
- Reset drive bracket properly
- Ensure PC Board is correctly snapped on to drive bracket

Any other error codes, call support at 888.323.5689



TIPS & BEST PRACTICES

Congratulations on the purchase of your new FIVE-O Water Conditioning and Filtration System!! You are now the owner of one of the most effective and reliable, eco-friendly water treatment systems available! The following information and list of “tips” was designed to help you better understand and maximize the effectiveness of this superior water treatment technology.

Understanding and Appreciating Aragonite:

In appliances, on dishes and on countertops where water is frequently left standing, you may begin to notice a powdered talc-like substance collecting. This powder is called Aragonite. Aragonite is a harmless, electrically neutral and non-corrosive form of calcite that is produced during the magnetic conditioning portion of the FIVE-O water treatment process. Prior to passing through your FIVE-O’s magnetic conditioner, this Aragonite is actually the minerals that would have caused lime scale build-up and corrosion in your pipes and appliances. The Aragonite is a byproduct formed after hard water passes through your FIVE-O’s magnetic conditioner and it is easily wiped off most surfaces. You should consider Aragonite as welcome proof that your FIVE-O Water System is operating effectively.

Here Are A Few Simple Actions To Help Minimize Aragonite Left On Items Cleaned By Your Dishwasher.

1. Use **ONLY** powdered dishwasher soap. Customers have seen great results with Cascade Complete.
2. **CUT DOWN ON SOAP.** Use only 1 Tablespoon **TOTAL** divided $\frac{1}{2}$ into each dispenser cup. Too much soap may cause spotting, etching, filming and/ or glazing.
3. Dishwasher hot water temperature should be at least 140° and hotter is better so, prior to starting your dishwasher, you should run the **HOT** water at the kitchen sink until it begins to flow hot. This ensures hot water for the dishwasher’s wash cycle.
4. Use (as directed) a rinse agent such as “Lemi Shine”. Available at most Target, WalMart stores and Amazon.com.
5. Turn off the dishwasher heating element and allow the dishes to cool dry. Open the dishwasher door slightly to allow steam to escape as soon as the wash cycle is complete.
6. Always store detergent in a dry place as moisture adversely affects dish detergent contributing to spotting. Purchasing small boxes of detergent, may make it easier to keep fresh product on hand. Check the expiration date for freshness because dish detergent actually does expire!



TIPS & BEST PRACTICES

Tips To Remove & Prevent Lime Scale Film On:

Dishes, Glasses, Small Appliances & Plumbing Fixtures That Have Been Subjected To Untreated Water Prior To The Installation Of Your FIVE-O System: These items likely have soap scum and lime scale build up.

1. Place affected dishes into dishwasher and run a complete wash cycle substituting 1 cup of white vinegar for the soap. Some glasses can become permanently etched if too much soap has previously been used.
2. Residue and mineral build up can be cleaned from small appliances such as coffee makers by using a 2-1 solution of hot water and white vinegar. Simply pour the water and vinegar solution into the water reservoir of your automatic coffee maker and turn it on. After it has "brewed" the water and vinegar solution, repeat the process using water only. This will rinse any remaining vinegar from the appliance.
3. Lime Scale and hard water deposits which have built-up on faucets and plumbing fixtures prior to the installation of your new FIVE-O water treatment system should be carefully removed with the help of products such as "CLR" or "Lime Away". Use these products only as directed by the manufacturer as they contain harsh chemicals which can ruin some finishes. "Lemi Shine" has also been reported to help remove mineral build up from dishwashers as well as from bathtubs, sinks and toilets.

Tips For Cleaning & Maintaining Your Bath & Shower Enclosures:

1. Use "CLR", "X-14" or "Lemi Shine" as directed to remove any existing mineral build-up from your bath tub, shower walls, shower basin and glass doors.
2. Use a squeegee or wipe down shower doors and walls after each use to prevent spots caused by soap scum.
3. Applying "Turtle Wax" or a good liquid car wax on clear glass doors, chrome, brass and dark colored shower tile will help to promote water sheeting and discourage soap scum build-up.
4. FIVE-O treated water contains almost no chlorine. This water is more enjoyable to drink and to bathe in, but chlorine does help prevent mildew from developing. Proper ventilation and consistently wiping down the bath tub and shower enclosure after each use will keep your bathing area free of mildew.



TIPS & BEST PRACTICES

Toilet Maintenance & Cleaning:

1. Adding bleach to toilet bowl will help prevent mildew and bacteria. This is particularly important for newer low-flush toilets that do not fully flush away deposits.
2. Infrequently used toilets, such as those located in vacation homes or in guest bathrooms, may be subject to rapid mineral build-up due to inactivity. Use a product such as "CLR" to remove this mineral build-up.

How to Clean a Sink Drain to Keep It Smelling Fresh and Sweet

If your kitchen sink is smelling less than fresh, sweeten it by cleaning with natural products. Eco-friendly, natural products such as vinegar and baking soda will clean and deodorize smelly sink drains. Replacing chemical cleaning products with natural ones will be easier on the environmental and on your nose. Deodorize your sink drain once a week, or more often as the need arises.

Things You'll Need

- Large kettle
- Rubber gloves
- 1 tsp. baking soda

Instructions

1. Kill any bacteria that may be lurking in the sink by flushing the drain with boiling water. Boil a large kettle of water. Pour the hot water down the drain to kill germs and loosen any food particles that may be stuck inside the drain. Wear rubber gloves to protect your hands from the boiling water.
2. Measure 1 tsp. of baking soda, a natural deodorizer, and sprinkle it into the drain. Run hot water from the tap for 10 seconds to send the baking soda down into the drain pipes.
3. Pour 1 cup of distilled white vinegar down the drain to deeply clean and disinfect the drain; the vinegar will also help remove any foul odors that still may be lingering.
4. Allow the vinegar to rest in the drain for 20 minutes, then turn on the hot tap water to flush the vinegar from the drain.
5. Finally, pour 1 cup of fresh lemon juice down the drain to give the pipes a clean, sweet scent. After 15 minutes, rinse the lemon juice down the drain with hot tap water.



WATER QUALITY RESOURCES

Resources for more detailed information on water quality treatment challenges and solutions you can go to:

- www.epa.com
- www.nrdc.gov
- www.water.com

Activated Carbon

General contaminant removal capabilities.

Contaminants Effectively Removed

Chlorine

(Water additive used to control microbes)

Sodium Hypochlorite

(From natural erosion & used in water treatment)

Commercial Additives

- Cresol
- Ketones
- Toluene
- Dyes
- Phenol
- Toluidine
- Xylene

Disinfectants

- Bleach
- Calcium Hypochlorite
- Chlorophenol

PCBs (Environmental pollutants)

Pesticides

- Defoliants
- Herbicides
- Insecticides
- Methyl Bromide

Solvents

- Amyl Acetate
- Butyl Acetate
- Chloroform
- Diesel Fuel
- Glycols
- Methyl Ethyl Ketone
- Nitrobenzene
- Oxalic Acid
- Trichloroethylene
- Benzene
- Butyl Alcohol
- Chlorobenzene
- Gasoline
- Hydrochloric Acid
- Naphtha
- Oil (Dissolved)
- Organic Esters
- Turpentine

THM (Total Trihalomethanes) (By-product of drinking water chlorination)

Pharmaceutical By-Products

- Chloral
- Iodine
- Isopropyl Alcohol

Tannins (Food & wine by-products)

Tar Emulsion (Topical medication by-product)

Undesirable Odors

- Chlorinous or bleach odor
- Earthy or grassy odors
- Fishy odor
- Fruity odor
- Musty odor
- Pool, bleach or geranium odor

Undesirable Taste

- Bleach or chlorine taste
- Garlic taste
- Medicinal taste
- Plastic Taste
- Rubber Hose Taste
- Rusty or Metallic taste

Likely Source Of Odor Contamination

Addition of chlorine as a disinfectant Geosmin produced by algae 2-, 4-, 7--decalatrien produced by algae.

Aldehydes produced by ozonation of water for disinfection

2-Methylisoborneol (MIB) produced by algae

Addition of chlorine and ammonia as a disinfectant (chloramines)

Likely Source Of Taste Contamination

Addition of chlorine as a disinfectant

Methane gas resulting from the decomposition of organic matter

Phenols from industrial waste or Chlorophenols

Addition of chlorine as a disinfectant

Addition of chlorine and ammonia as a disinfectant (chloramines)

Iron & manganese in the ground

Limited Contaminant Reduction

Fluoride

Hydrogen Bromide

Precipitated Iron

Precipitated Sulfur

Contaminants Reduced

Acetic Acid (Water chlorination by-product)

Detergents

Heavy Metals (Chromium, lead, copper, zinc and cadmium)

Hydrogen Selenide (Similar to arsenic)

Hydrogen Sulfide (Responsible for "rotten egg" odors)

Lead (Erosion of natural deposits, corrosion of household plumbing systems)

Nitric Acid (Strong antioxidant)

Soaps

Vinegar

Contaminants Significantly Reduced

Alcohols (Commercial by-products)

Antifreeze (Poisonous products)

Chloramine

(Water additive used to control microbes)

Commercial Additives

- Chlorophyll
- Ethyl Alcohol
- Ethyl Ether
- Mercaptans
- Propionaldehyde
- Propyl Acetate
- Propyl Chloride
- Tartaric Acid
- Citric Acid
- Ethyl Chloride
- Ethylamine
- Organic Acids
- Propionic Acid
- Propyl Alcohol
- Sulfonated Oils
- Xanthophyll

Solvents

- Acetaldehyde
- Methyl Acetate
- Ozone
- Organic Salts
- Acetone
- Methyl Alcohol
- Methyl Chloride

Disinfectants

- Lactic Acid
- Potassium Permanganate
- Radon (Gaseous element)

DISCLAIMER: The use of this product in and of itself does not necessarily guarantee the removal of the contaminants and pathogens listed above from water. Effective contaminant and pathogen reduction is dependent on the complete system design and on the operation and maintenance of the system.



Five-O Series Limited Warranty Model: B1B-50100

B1 BRANDS.COM, LLC dba Superior Water Sales (SWS) point of entry residential water filters and conditioners (up to 13" diameter mineral tanks) are warranted to the original owner at the original residential installation location to be free from defects in materials and workmanship from the date of manufacture as specified.

1. SWS will provide one replacement tank for any tank that fails due to a manufacturing defect.
2. SWS warrants that components for the equipment will be available for the lifetime of the system.
3. SWS will provide comparable components of our selection to replace any obsolete items.
4. SWS will, within five years from date of install repair or replace warranted defective control valve parts at no charge.
5. SWS will provide replacement carbon media at no charge (except freight and handling) for 10 years from the date of installation due to media failure. (Chlorine only)
6. This warranty gives you specific legal rights that may vary from state to state.

CONDITIONS OF WARRANTY

- The system must be installed and maintained according to local codes and secondarily in accordance with manufacturer's recommendations. Contact SWS if there are any conflicts between local codes and our printed instructions.
- The system must be maintained with SWS approved replacement components.
- Failures resulting from fire, freezing, neglect, accident, alteration, abuse, improper installation or acts of nature are not covered.
- Water pressure must be regulated between 40 to 80 pounds per square inch working or static pressure. Pressure exceeding 80 pounds per square inch (psi) working or static pressure voids all warranties.
- Pressures exceeding 120 pounds per square inch voids warranty on tank.
- Internal water temperature exceeding 120° F voids warranty on tank.
- Influent chlorine must not exceed 1 mg/l.
- SWS does not warrant to perform, pay for, or finance any repairs and/or installations. The customer must contact the SWS representative prior to any repairs or replacements.
- If a recirculation pump is in use at the location of the SWS system, install a secondary Superior Water Conditioner on each recirculating loop present in order to ensure expected results.

OBTAINING WARRANTY SERVICE

Prior to any Warranty actions, including replacement or removal of parts and/or equipment, Service Tech must put system on by-pass and immediately contact SWS to provide model number, serial number and photos of system and problem site. All returns must be accompanied by a "Return Merchandise Authorization" (RMA) Form along with all defective/warranted part(s) along with a copy of this warranty, original purchase receipt, and the RMA number. SWS will at our option, repair or provide replacement more two parts at no cost, except freight, handling, on-site labor charges. You can contact Superior Water Sales at (888) 323-5689 or email us at services@superiorwatersales.com

LIMITATIONS AND EXCLUSIONS

This warranty is exclusive and in lieu of any other warranty expressed or implied, including but not limited to, any implied warranty of merchantability of fitness for a particular purpose. HALO shall not be liable for any loss or incidental or consequential damages resulting from the misuse or inability to use this equipment by the buyer or any user. This warranty is non-transferable and is valid only on residential applications for the treatment of municipal water supplies.

**Thank you for choosing us to provide solutions
to improve your water quality at home.**



superiorwatersales.com

**is committed to delivering sustainable and effective solutions to
improve household water quality by using premium media and
components in order to provide these solutions.**

**At the end of the day, we understand that you chose us in order to
obtain the peace of mind that comes with having a premium water
quality treatment solution to protect your family, home & planet.**

**If you ever have any questions or concerns, please do not hesitate to
reach out to us so we can fulfill on our commitment.**



MODEL NUMBER/SERIAL NUMBER

INSTALL DATE

INSTALLER NAME/COMPANY

PHONE/EMAIL

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