



## SANITIZE THE FRESH WATER SYSTEM

<b>Bulletin Type:</b>	INC	<b>Publication Date:</b>	March 2022
<b>Bulletin No:</b>	22-054	<b>Make(s):</b>	Jayco, Entegra Coach
<b>Model Year (s):</b>	All Model Years	<b>Model(s):</b>	SENECA PRESTIGE, ACCOLADE XL, EMBARK, REATTA, REATTA XL, INSIGNIA, ASPIRE, ANTHEM, CORNERSTONE

<b>Incident:</b>	Routine or when the fresh water system needs to be sanitized
<b>Affected Units:</b>	All Model Years Jayco Seneca Prestige & Entegra Accolade XL, Embark, Reatta, Reatta XL, Insignia, Aspire, Anthem, Cornerstone

### Instructions On When To Sanitize The Fresh Water System

**1. Note:**

- a. Aqua-Hot systems contain copper tubing and are not compatible with prolonged exposure to sodium hypochlorite (bleach, or bleach products.) Exposing the domestic water coil to products which contain sodium hypochlorite for extended periods of time can lead to corrosion of the domestic water coil and eventually catastrophic failure of the Aqua-Hot unit.
- b. Follow all manufacturer’s instructions regarding chemical use for cleaning and disinfecting appliances.
- c. If bleach products are used to disinfect the water system, it is crucial that the system be purged of these products until there is no evidence of chlorine left in the water system. Damage resulting from a failure to purge the water coil of sodium hypochlorite solutions is *NOT* covered by the Aqua-Hot warranty.
- d. In addition, Aqua-Hot Heating Systems misadvises the use of water fresheners containing sodium hypochlorite in its units. If a water freshener is required, take special care to ensure that the product does NOT contain sodium hypochlorite.

**2. When to sanitize:**

- a. When your motor home is new.
- b. At the beginning and end of each season.
- c. When the water system becomes contaminated or every three months of use.

- d. **CAUTION:** FAILURE TO BYPASS THE AQUA HOT DURING THE SANITIZING PROCESS MAY CAUSE DAMAGE, AND IS NOT WARRANTABLE.
  - i. **CAUTION: CHLORINE BLEACH WILL DAMAGE AQUA HOT.**  
AQUA HOT **BYPASS MUST BE USED** TO PROTECT THE AQUA HOT.

### 3. **AQUA HOT BYPASS**

- a. Note: PARALLEL TO THE LINE IS OPEN, PERPENDICULAR TO THE LINE IS CLOSED.
- b. Figure 1 shows location of the bypass at Aqua Hot. Figure 2 shows normal use, not in bypass mode.



Figure 1

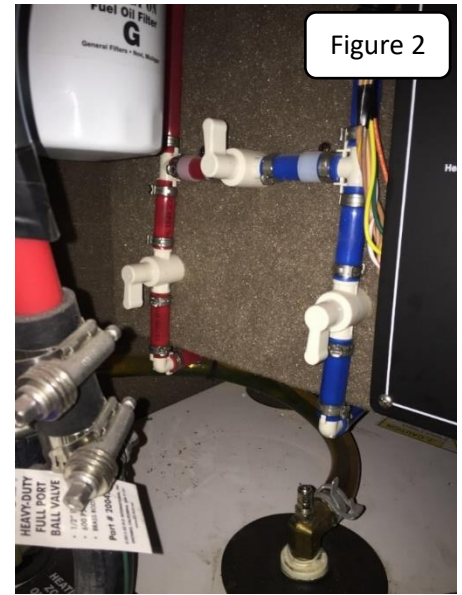


Figure 2

### 4. **How to sanitize, (specific, complete instructions can be found in the owner's manual).**

- a. Turn the Aqua Hot, and all water heaters OFF. Level the motor home and drain the fresh water system (see *Draining the Fresh Water System*).
- b. Close all low point drains, including the drains for hot/cold water lines behind the large panel on the utility center.
- c. Turn water supply OFF to canister water filter. The valve is located behind the large utility center panel. Remove the filter cartridge from the water purification system canister, re-attach the empty canister. See *Water Purification System* for additional information on removing the filters. Replace the small cartridge filter with the (blue) bypass tube provided. Turn the water supply valve ON.
  - i. **Chlorine should be kept out of these filters** (water filters are located at the outside docking (utility) center.
- d. Prepare a chlorine solution using 1/4 cup of household bleach (sodium hypochlorite solution) to one gallon (3.785 liters) of water in a container. Prepare one gallon of solution for every 15 gallons of tank capacity. This will result in a residual chlorine concentration of 50 ppm in the water system.
- e. If a 100 ppm concentration is required, 15, use 1/2 cup of household bleach with one gallon of water to prepare the chlorine solution. One gallon of the solution should be used for each 15 gallons of tank capacity.

- f. To sanitize the fresh water tank: Open the water tank compartment on the PS of the RV. Remove the cap from the tank water fill and pour the sanitizer solution into the fresh water tank. Replace the cap.
5. Fill the fresh water tank using one of the following methods:
    - a. **Method 1:** Remove the cap and fill the tank using a water hose. Monitor the water level using the water level guide.
    - b. **Method 2:** Attach the fresh water hose from the hose reel to a pressurized water source. The short hose at the utility center should connect to the City Water Inlet. Turn the Tank Fill / City Water valve on the utility center to TANK FILL (horizontal). Turn on the water until the tank is full.
  6. When the water tank is full.
    - a. **Method 1:** remove the hose and replace the cap on the water tank.
    - b. **Method 2:** shut off pressurized water source, disconnect water source from the hose reel, press and hold the HOSE REEL REWIND switch to retract the hose back onto the reel (release the switch when the end of the hose gets to the panel). On models where the water hose connects directly to the (utility center) water inlet; shut off water source, remove the hose from the city water inlet.
    - c. At utility center: place the city water valve to the vertical (city water) position.
    - d. At the cartridge filter location on the utility panel, turn OFF the drinking water valve (Item 14), to prevent sanitizer from entering the refrigerator and the drinking faucet at the kitchen sink (valve is shown OFF). The valve color will be either black or blue.
  7. **Bypass the Aqua Hot water heater.** Sanitizer **must be kept out** of the Aqua Hot water heater. Set the bypass valves to the bypass position (two supply valves **OFF**, middle valve **ON**). The 3 black valves are **located** with the Aqua Hot water heater (in this photo, supply valves are shown ON, bypass valve is shown OFF).
    - a. Turn the pump switch ON.
    - b. Open the hot and cold water line faucets one at a time (kitchen, lavatory, shower and outside shower) until water begins to flow continuously and a chlorine smell is noticeable. Close the hot and cold water faucets.
    - c. Turn the pump OFF.
  8. Let the solution remain in the system for at least four hours when disinfecting with 50 PPM residual chlorine. If a shorter time period is desired, then a 100 PPM chlorine concentration should be permitted to sit in the system for at least one hour. For complete fresh water tank sanitization, driving your motor home for a short distance will allow the sanitizing solution to splash around all sides of the tank.
  9. After the required sanitization period, drain the chlorine solution from the fresh water system (see *Draining the Fresh Water System*).
  10. Re-fill the fresh water tank. Verify that the city water valve is in the horizontal (fill tank) position. Refer to Step 6 above to fill the fresh water tank.
  11. Turn water source OFF. Set the city water valve back to the vertical (city water) position. Remove the hose from the water source. Turn the water pump ON. Open all faucets (including outside shower) to flush all the water lines with fresh water (pump is not used

for this). Water heater bypass should still be ON (to prevent water from entering the water heater). Drinking water valve (Item 14) should still be OFF.

12. Drain the fresh water system again (see *Draining the Fresh Water System in the owner's manual*).

- a. Re-fill the fresh water tank with portable water. Turn the water heater bypass valves to the normal position (hot & cold supply valves ON, middle valve OFF) to allow water into the Aqua Hot water heater. Detach the outside shower hose. Turn the drinking water valve ON (Item 14). Water filter from the canister filter has been removed at the utility center. The small cartridge water filter must be replaced with the bypass tube. The blue drinking water valve at the cartridge water filter is OFF.
- b. Aqua Hot water heater is bypassed before flushing the system with the vinegar solution. Re-flush the system with the vinegar solution through the faucets (steps 12 & 13) until chlorine smell is gone. Then flush the system again with fresh water. **ONLY** after the vinegar solution has been flushed out of the lines with fresh water, replace the water filters, turn the drinking water valve back ON, and set the Aqua Hot bypass valves back to the normal position (hot & cold supply valves ON and middle valve OFF).
  - i. **NOTE:** If a chlorine taste lingers in the water, flush the water system with a solution consisting of one-quart vinegar to five gallons of clean water. The following steps must be done before flushing the system with the vinegar solution:
    1. Water filter from the canister filter has been removed at the utility center.
    2. The small cartridge water filter must be replaced with the bypass tube.
    3. The blue drinking water valve at the cartridge water filter is OFF.
    4. Aqua Hot water heater is bypassed before flushing the system with the vinegar solution.
    5. Re-flush the system with the vinegar solution through the faucets (steps 12 & 13) until chlorine smell is gone. Then flush the system again with fresh water **ONLY** after the vinegar solution has been flushed out of the lines with fresh water, replace the water filters, turn the drinking water valve back ON, and set the Aqua Hot bypass valves back to the normal position (hot & cold supply valves ON and middle valve OFF).

*Jayco's sole obligation under our limited warranty is to repair or replace defective materials and/or workmanship deemed our responsibility as determined by Jayco in our sole discretion. Jayco reserves the right to use new and/or remanufactured parts or materials of similar quality to complete any work, and to make parts and/or design changes as appropriate without notice to anyone. Jayco designs and/or materials changes are done without obligation to incorporate such changes in previously manufactured product. Jayco makes every reasonable effort to ensure field remedies will not adversely affect performance and/or safety of the unit. This field remedy is not intended to extend to future performance of this RV, or any of its materials, components or parts beyond the standard warranty period. The RV owner's obligation to notify Jayco, or one of its independent, authorized dealers, of a claimed defect does not modify any obligation placed on the RV owner to contact Jayco directly when attempting to pursue remedies under state or federal law. Jan. 2019.*

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