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Assembly and Installation Instructions:

- ❑ Wrap the top of distributor tube with electrical or duct tape so that no gravel or Sediment media will go down the distributor tube when adding the media.
- ❑ Add the filter gravel that came with your order. You want the gravel to cover the bottom distributor screen before adding the Sediment media.
- ❑ Next add Sediment media. The tank should be about 2/3rds full of media, do not fill more than 2/3rds, even if there is some media left over.
- ❑ Remove cap or tape from top of distributor tube. Be careful not to pull up distributor tube when removing cap or tape.
- ❑ Fill tank completely with water. This will allow the Sediment Filter media to settle and reduce the need of purging the air out of the tank later.
- ❑ Add a small amount of silicone grease to the inner O-ring, where the distribution tube goes.❑
- ❑ **NOTE: no upper screen or top screen is recommended for the Sediment Backwash Filter as it can clog over time. So we no longer include one. Start the initial backwash slowly to avoid media from being flushed up into control valve and you will never have need for a top screen.**
- Lubricate the main tank O-ring and screw on 7500 control valve carefully. Do not use pipe-joint compound, vegetable oil, Teflon tape, or Vaseline or other petroleum greases to lubricate tank threads.

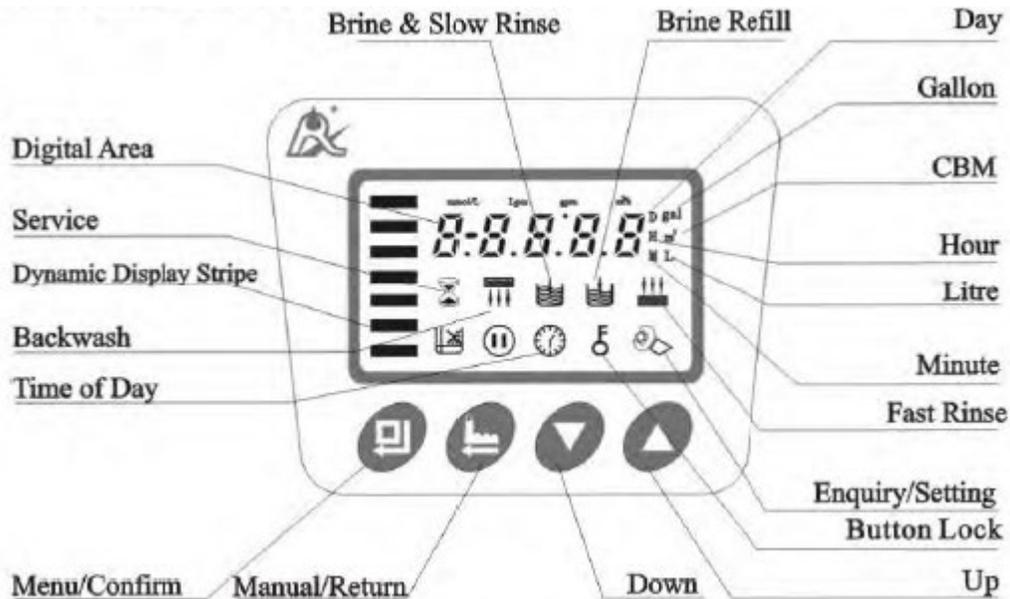


Next, you will need to program the system and set the time of day.

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Programming Your Valve and Setting Time and Days for Backwash

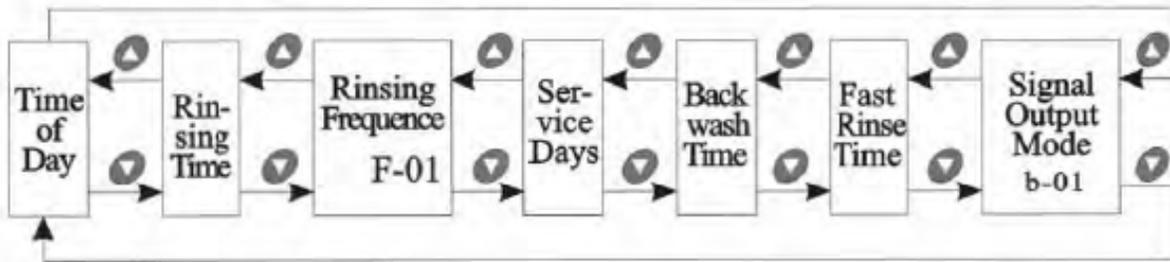
Next, you will need to program the system to work as a Sediment Filter. There are a few settings that must be changed before the system can be put into service. Plug in the control valve and begin the programming instructions.



***IMPORTANT*:** Before any operation, the valve menu must be unlocked. If the button lock indicator is displayed, press and hold both the Up and Down buttons for 5 seconds. A sound will indicate the menu is unlocked. The menu will re-lock automatically after 1 minute of inactivity.

1. To begin programming your valve, unlock the menu and press the Menu/Confirm button. This puts the valve into program display mode, indicated by the Enquiry/Setting icon being displayed. The Enquiry/Setting icon is displayed whenever you are changing the parameter of a programming mode.
2. The sequence of programming modes is shown in the diagram below. To switch between modes, press the up or down button according to which direction your mode is. The modes can only be changed when the Enquiry/Setting button is displayed and you are not currently modifying any other parameter.

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1) To change the Time of Day:

Change programming mode to Time of Day ([00:00] and time of day icon displayed). The hour and Enquiry/Setting icon will be flashing. Change the hour value with the Up/Down buttons, then press Menu/Confirm to move onto the minute value. Change this value with Up/Down, and press Menu/Confirm again to confirm the time.

2) To change the Rinsing Time:

The rinsing time is the hour of day that the system will turn on to perform its function. **We recommend setting the system to backwash at 2 AM [02:00]**, or any time that it is unlikely any water will be used. Note the valve uses the 24-hour clock.

The default setting is [02:00]. The max setting is [23:59]. To change, set the programming mode to Rinsing Time ([00:00]). Press the Menu/Confirm button and use the Up/Down buttons to change the hour value. Press the Menu/Confirm button again and change the minute value using the Up/Down buttons. Finally, press Menu/Confirm to confirm your rinse time.

3) To change the Rinsing Frequency:

The rinsing frequency is how many times the system will backwash and rinse per service.

This should be left at its **default, [F-00]**. This will have the system only backwash and rinse once per service.

4) To change the Service Days:

5) The recommended initial backwash frequency setting for the Sediment Backwash Filter is every 3 to 4 days for families or heavy use and every 7 days for 1 to 2 persons in the home. If you experience pressure loss in between backwashes, increase frequency of backwash up to once per day.

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To set this, change the programming mode to Service Days ([1-03D]). Press the Menu/Confirm button and use the Up/Down buttons to set it to your desired amount. Press Menu/Confirm to confirm your input.

6) To change the Backwash Time:

The backwash time is the amount of time (in minutes) that the system will backwash for.

For a neutralizer filter, **set the backwash time to 10 minutes [2-10:00]**. To change this, set the programming mode to Backwash Time ([2-10:00] and backwash icon displayed). Press the

Menu/Confirm button and use the Up/Down buttons to set it to **[2-10:00]**. Press Menu/Confirm to confirm the backwash time.

7) To change the Fast Rinse Time:

The fast rinse time is the amount of time (in minutes) that the system will rinse for.

For a Sediment filter, **set the fast rinse time to 6 minutes [3-06:00]**. To change this, set the programming mode to Fast Rinse Time ([3-10:00] and fast rinse icon displayed). Press the Menu/Confirm button and use the Up/Down buttons to set it to **[3-06:00]**. Press Menu/Confirm to confirm the fast rinse time.

8) To change the Signal Output Mode

The signal output mode refers to when the system receives external function.

Leave this at its default, [b-01].

After configuring, press the Manual/Return button to exit programming mode.

Initial Backwash

- 1 After programming, the system must be run through an initial backwash.
- 2 Close inlet ball valve and outlet ball valve and open the bypass valve.
- 3 Press the Manual/Return button to enter the backwashing cycle. When the backwash icon is displayed, slowly open the inlet valve B to a quarter position to make the water flow into the resin tank; you should be able to hear air escaping from the drain pipeline.
- 4 After all the air is out of the pipeline, open inlet valve B and clean the foreign materials in the tank until the water is clean.
- 5 If possible, verify that the backwash flow corresponds with the size of your system below.

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You can easily run the drain hose to a bucket and using a watch verify the flow rate in gallons per minute. An adequate backwash is critical to properly clean the Sediment media and prevent it from cementing together.

0.75 CF	5 GPM
1.0 CF	5 GPM
1.5 CF	7 GPM
2.0 CF	8 GPM
2.5 CF	10 GPM
3.0 CF	12 GPM

- 6 After the backwash, the system will automatically go into the fast rinse stage. Both stages will last if you have programmed the valve for. The control valve will return to service status (indicated by the up flowing meter on the left) after the backwash and rinse are complete.
- 7 Repeat the Regeneration (backwash and rapid rinse cycle) step 3-4 more times until you see clear water through the drain line or your hose bib.

Congratulations, you are done setting up your valve!

Maintenance:

Verify that the water coming out of your system is Sediment free.

Troubleshooting the 7500-M Sediment Filter:

Backwash Flow Rate

One problem that may occur is if you do not have enough backwash flow rate to properly clean the Sediment filter.

You can verify the backwash flow rate by running the drain line into a bucket and timing it when the 7500-M is in Cycle 1 or backwash. A 1.0 or 1.5 cubic foot system should have 5 gallons per minute and a 2.5 cubic foot system should have 10 gallons per minute of backwash.