

# OWNER'S MANUAL

**MODEL NOS.  
625.348235  
Clarifier**

**625.348242  
Neutralizer**

**625.348252  
Taste & Odor**

## Caution:

Read and Follow  
All Safety Rules and  
Operating Instructions  
Before First Use of  
This Product.

If you have questions when  
installing, operating or main-  
taining your filter, and when  
setting the timer, call this  
toll-free number...

**1-800-426-9345**

(M - F, 7 am - 8 pm, CST)

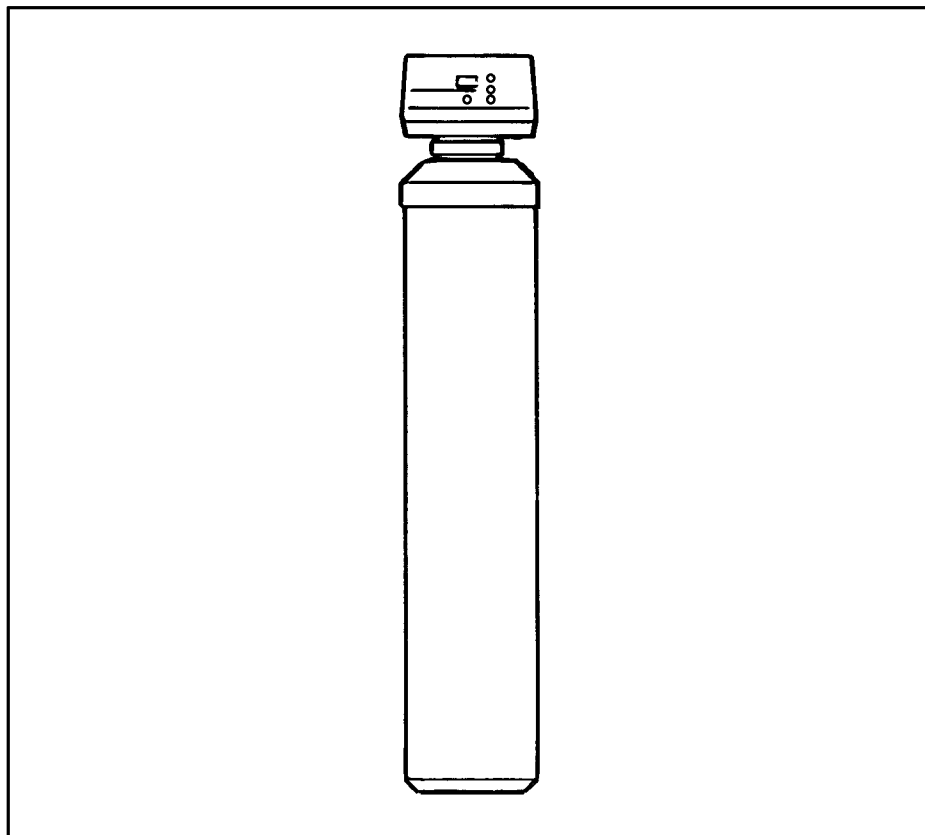
For repair or replacement  
parts, call this toll-free num-  
ber...

**1-800-366-7278**

See back cover for other  
Sears service numbers.

[www.KenmoreWater.com](http://www.KenmoreWater.com)

**SAVE THIS MANUAL**



## Water Filters

- ◆ Warranty
- ◆ Start Up / Setting Timer
- ◆ How It Works
- ◆ Care Of
- ◆ Specifications
- ◆ Repair Parts



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**Sears, Roebuck and Co., 3333 Beverly Road, Hoffman Estates, IL 60179 USA**

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**SEARS RESIDENTIAL WATER FILTER**

**FULL ONE YEAR WARRANTY ON FILTER**

For one year from the date of purchase, when this filter is installed and maintained in accordance with our instructions, Sears will repair, free of charge, defects in material or workmanship in this water softener.

**FULL FIVE YEAR WARRANTY AGAINST LEAKS**

For five years from the date of purchase, Sears will furnish and install a new current model water filter tank, free of charge, if the tank develops a leak.

TO OBTAIN WARRANTY SERVICE, SIMPLY CONTACT THE NEAREST SEARS SERVICE CENTER THROUGHOUT THE UNITED STATES. This warranty applies only while this product is in use in the United States.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Sears, Roebuck and Co., D/817 WA, Hoffman Estates, IL 60179

If you want your water filter professionally installed, talk to your Sears Salesman. He will arrange for a prompt, quality installation by Sears Authorized installers.

**SEARS INSTALLATION POLICY**

All installation labor arranged by Sears shall be performed in a neat, workmanlike manner in accordance with generally accepted trade practices. Further, all installations shall comply with all local laws, codes, regulations and ordinances. Customer shall also be protected, during installation, by insurance relating to Property Damage, Workman's Compensation and Public Liability.

**SEARS INSTALLATION WARRANTY**

In addition to any warranty extended to you on the Sears merchandise involved, which warranty becomes effective the date the merchandise is installed, should the workmanship of any Sears arranged installation prove faulty within one year, Sears will, upon notice from you, cause such faults to be corrected at no additional cost to you.

**FACTS AND FIGURES TO KEEP**

Fill in the blanks below and keep this book in a safe place so you always have these facts.

Water Filter Model No.† \_\_\_\_\_

Serial Number \_\_\_\_\_

Date Installed \_\_\_\_\_

Iron Content \_\_\_\_\_ Parts Per Million

pH \_\_\_\_\_ Taste And/Or Odor \_\_\_\_\_

Water Pressure \_\_\_\_\_ Pounds/Square Inch

Water Flow Rate \_\_\_\_\_ Gallons Per Minute

† The model number is on the rating decal, located on the rim, under the salt hole cover.

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## A. SAFETY GUIDES

▲ Read all steps, guides and rules carefully before installing and using your new water filter. Follow all steps exactly to correctly install. Failure to follow them could cause personal injury or property damage. Reading this book will also help you to get all of the benefits from your water filter.

▲ Your water filter will improve your water as described on page 2–3. It will not soften water or remove iron. It will not purify polluted water or make it safe to drink. Also see the specifications on page 4–1.

▲ Protect the filter and piping from freezing. Damage from freezing voids the filter warranty. See page 3–1.

### CAUTIONS

PLEASE READ AND COMPLY WITH THE FOLLOWING GUIDES TO PREVENT DAMAGE TO THE FILTER OR OTHER PROPERTY, PERSONAL INJURY, OR POSSIBLE FATAL SHOCK.

▲ THIS FILTER WORKS ON 24 VOLTS ONLY. BE SURE TO USE THE TRANSFORMER INCLUDED, AND PLUG IT INTO A GROUNDED 120V OUTLET.

▲ Unplug the transformer right away if the power cable should become damaged or frayed. Make repairs before plugging back into the power outlet.

▲ Always unplug the filter from electrical power before removing outer valve covers.



European Directive 2002/96/EC requires all electrical and electronic equipment to be disposed of according to Waste Electrical and Electronic Equipment (WEEE) requirements. This directive or similar laws are in place nationally and can vary from region to region. Please refer to your state and local laws for proper disposal of this equipment.

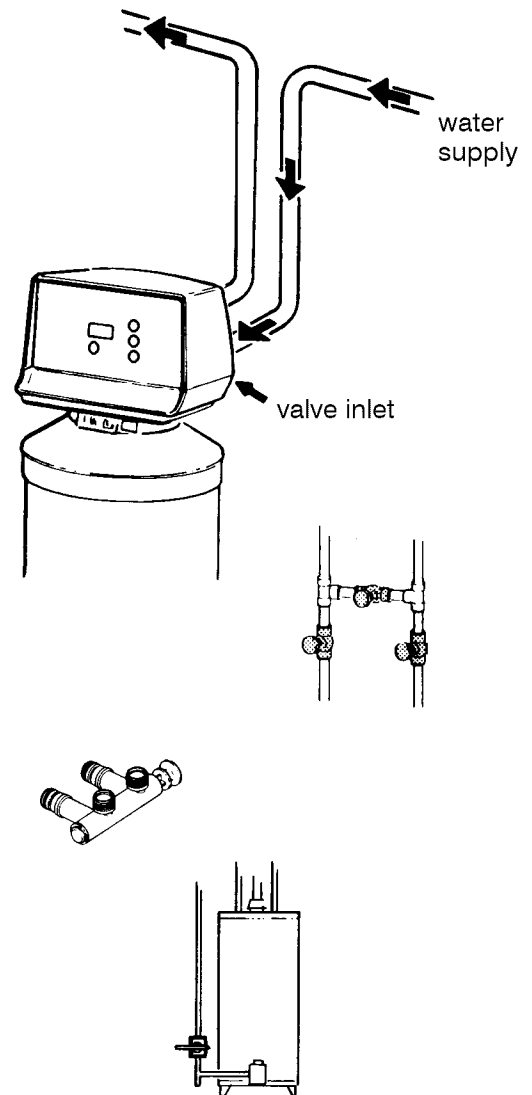
## B. CHECK LIST OF ALL STEP-BY-STEP GUIDES TO INSTALL

Refer to the Installation Manual, part number 7146611, for step-by-step guides.

To be sure you have done all the steps to install the filter, read the following list. Page numbers referred to are in the Installation Manual.

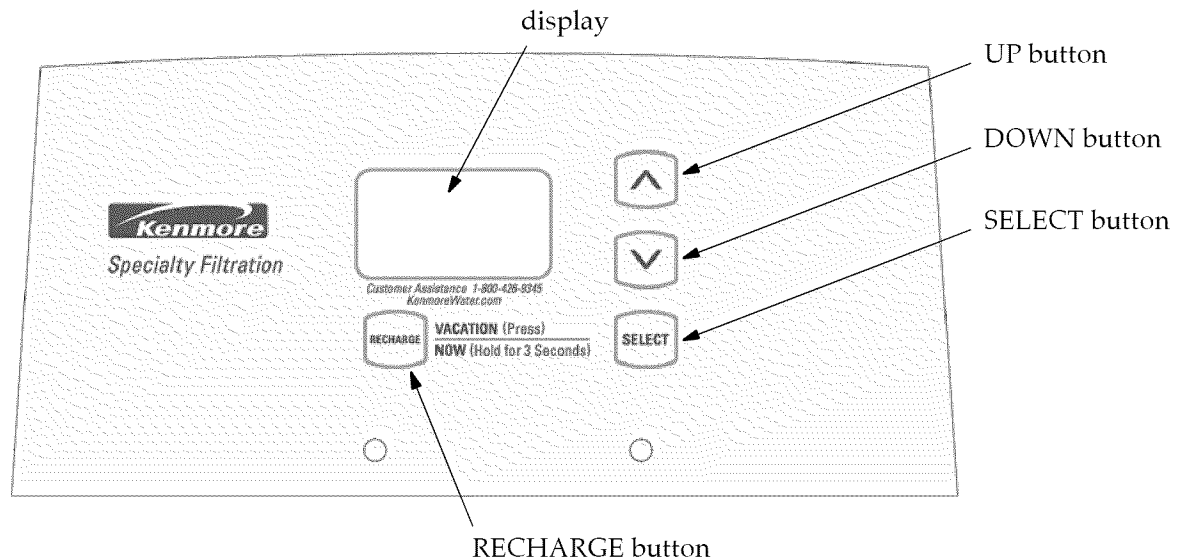
- ✓ Is the house water flow going INTO the filter valve INLET? Trace piping to be sure . . . page 9.
- ✓ Is the plumbing bypass valve (or three valves) set for SERVICE? . . . See Figure 9, page 4-1 of this manual.
- ✓ Is the valve drain hose connected the right way, and without sharp bends or kinks that could stop or reduce water flow? . . . page 14.
- ✓ Is the transformer plugged into an inside, continuously "live", grounded, 120V-60Hz electrical outlet . . . page 17.
- ✓ Be sure to restart the water heater . . . page 18.

**FIGURE 1**

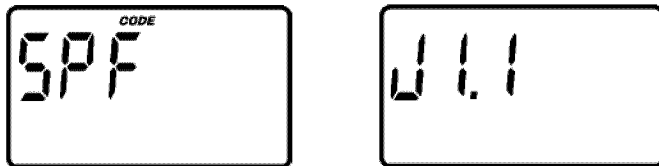


## C. PROGRAM THE TIMER

FIGURE 2



When the transformer is plugged into the electrical outlet a model code is displayed for a few seconds followed by a test number (example: J1.1). Then, 12:00 PM and the words PRESENT TIME will begin to flash in the time display.



Notes:

If - - - - shows in the display, press the UP or DOWN button until SPF shows in the display. Then, press the SELECT button to set, and change to the flashing PRESENT TIME display.

To check the model code, unplug the transformer at the wall outlet and plug in again. **if other than this code (SPF) shows, see page 5-2 to reset.**

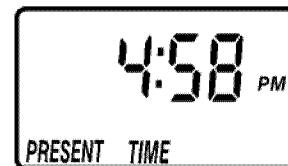
If the words PRESENT TIME do not show in the display, press the SELECT button (Figure 2) until they do.

**SOUND "BEEPER":** A "beeper" sounds while pressing buttons for set-up. One beep signals a change in the face plate display. Repeated beeps mean the timer will not accept a change from the button you have pressed, telling you to use another button.

## 1. SET PRESENT TIME OF DAY

Press the UP or DOWN buttons to set the present time. Press UP to move the display ahead; press DOWN to move the time backward.

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



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



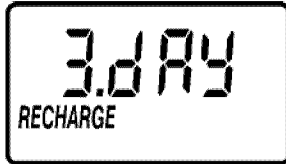
Each press of the UP or DOWN buttons changes the time by 1 minute. Holding the buttons in changes the time 32 minutes each second.

- c. Press the SELECT button once to set the present time of day and advance to the next set up screen.

### C. PROGRAM THE TIMER

#### 2. SET DAYS TO RECHARGE

This setting is the number of days the filter will go between recharges. The default setting is 3 days, with a maximum setting of 99.



- a. Press the UP or DOWN buttons until the correct number of days between recharges is shown in the display.
- b. Press the SELECT button once to set the days to recharge and advance to the next set up screen.

For iron applications, see the chart below to determine the frequency of recharges. Find the number of people living in the household, and then going across the chart, find the amount of iron (in parts per million) that is in the water supply. The number of days that shows in the chart is the number of days the filter should be set for recharges.

**NOTE:** Carbon and neutralizing filters may only need to backwash using the default schedule (3 days), depending on application. If the water supply has high turbidity (sand, silt, sediments, etc.) set the filter to regenerate more often than the 3 day schedule.

For oxidizing iron applications:

Number of People	Iron (parts per million)			
	1 - 2	3 - 4	5 - 7	8 - 20
1	4 days	3 days	2 days	1 day
2	4 days	3 days	2 days	1 day
3	4 days	3 days	1 day	1 day
4	3 days	2 days	1 day	1 day
5	3 days	2 days	1 day	1 day
6	2 days	1 day	1 day	1 day
7	2 days	1 day	1 day	1 day

#### 3. SET RECHARGE TIME

The filter is factory set to begin recharge at 12:00 AM. If a different recharge time is desired, or needed, do the following.



- a. Press the UP or DOWN buttons until the correct recharge time is shown in the display.
- b. Press the SELECT keypad once to set the recharge time and return the display to the normal operating screen with the present time of day shown.

### D. SANITIZING THE WATER FILTER

Care is taken at the factory to keep your water filter as clean and sanitary as possible. However, it is suggested that the sanitizing procedure below is followed <sup>①</sup>.

1. Press and hold the RECHARGE button until "RECHARGE NOW" begins to flash in the display. Water will begin to run from the drain hose as the filter valve moves into backwash position.



After 5 to 10 minutes, press the RECHARGE button again to move the valve into fast rinse position (water stops, then begins to run from drain hose again).

2. In about two minutes, put the bypass valve(s) in bypass position (see Figure 9, page 4-1). Then press the RECHARGE button once again to return the filter to service position. Doing this releases water pressure in the filter.
3. Carefully remove the large plastic clip at the filter valve inlet (pages 6-3 and 6-4). Pull the valve adaptor from the valve inlet.

**NOTE:** If bypass valve, Sears Stock No. 42-3437 is installed, or if plumbing is too rigid to move, also disconnect the outlet side and move the filter away from plumbing.

4. Put one teaspoon (0.1 ounce) of calcium hypochlorite into the valve inlet as far as possible.

**NOTE:** You can buy calcium hypochlorite in tablet or granular form under trade names such as Perchloron and HTH.

5. Be sure the valve inlet is clean, for a good sealing surface for the valve adaptor o-ring. Then, reconnect plumbing to the filter. AFTER INSTALLING THE LARGE PLASTIC CLIP, PULL OUTWARD ON THE VALVE ADAPTOR TO BE SURE IT'S PROPERLY HELD IN PLACE.
6. SLOWLY, reposition the bypass valve(s) to service, Figure 9, page 4-1. Open the nearest filtered water faucet until you can smell chlorine, then close.
7. Again, put the bypass valve(s) in bypass position. Allow the filter to stand idle for about 45 minutes, while the chlorine sanitizes.
8. After 45 minutes, return the bypass valve(s) to service position.
9. Repeat steps 1, 1a and 1b to advance the filter to backwash. The timer will automatically advance the filter through the backwash and fast rinse cycles, during which the sanitizing bleach is flushed to the drain.

**NOTE:** The backwash and fast rinse cycles take about 30 minutes. When over, the timer automatically returns the filter to service (water flow from the drain hose stops).

10. Open house filtered water faucets and allow to run until the chlorine odor is gone.

<sup>①</sup> Recommended by the Water Quality Association. On some water supplies, the water filter may need periodic disinfecting.

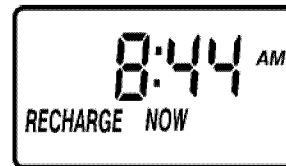


## A. FACEPLATE TIMER FEATURES

## RECHARGE NOW

For times you expect to use more water than usual, use the RECHARGE NOW feature. Press the RECHARGE button and hold in for three seconds. "RECHARGE NOW" begins to flash in the display and a recharge starts right away. You will have filtered water when the recharge is over in about two hours.

FIGURE 3



## VACATION

The day you leave on vacation or other long absence, press and release (do not hold) the RECHARGE button. "VAC" begins to flash in the display. The timer will keep time, but the filter will not recharge and waste water.

FIGURE 4



When you return, press and release the RECHARGE button again to return the filter to service, and the correct time of day will show in the display. **Remember to do this** or the filter will not recharge and you will soon have unfiltered water.

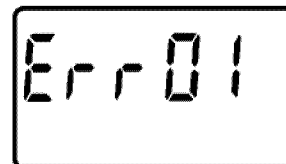
**NOTE:** While in VACATION, the filter will go through a recharge if the RECHARGE NOW feature is used.

To shut off the water supply to the filter, use the plumbing bypass valve(s), Figure 9 on page 4-1.

## ERROR CODE

FIGURE 5

An error code could appear in the faceplate display if a problem occurs in the filter electronics. If you see an error code instead of the present time of day, please call the Kenmore Water Line at 1-800-426-9345.

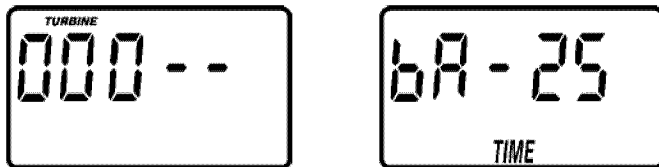


## A. FACEPLATE TIMER FEATURES

The default settings for backwash (25 minutes) and fast rinse (5 minutes) cycles of regeneration are factory set for maximum performance of the filter. Use the following procedures to check for correct cycle times, or to change if desired. **However, only trained technicians should change the time settings.**

### ADJUSTABLE BACKWASH

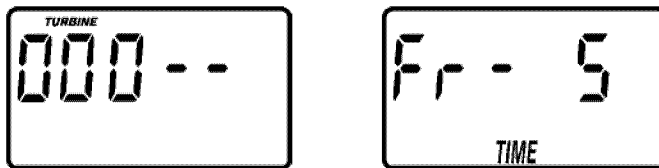
Press and hold the SELECT button until the display shows "000--", then press the SELECT button once to advance to the Backwash time adjust screen.



Using the UP or DOWN buttons, adjust the backwash time from 0 minutes to 60 minutes.

### ADJUSTABLE FAST RINSE

Press and hold the SELECT button until the display shows "000--", then press the SELECT button twice to advance to the Fast Rinse time adjust screen.



Using the UP or DOWN buttons, adjust the fast rinse time from 0 minutes to 60 minutes.

### TIMER "POWER-OUTAGE MEMORY"

If electrical power to the timer is interrupted, the "memory" built into timer circuitry keeps time for 6 hours (minimum) or more. The display is blank and the filter will not regenerate. When electrical power comes on, one of two things will happen.

1. The present time of day will show steady, meaning the timer has not lost time.
2. The display will show a time, but it will be flashing. The timer memory did not keep the time setting and must be reset (page 1-3). If you do not reset the time, regenerations will most likely be at the wrong time of day.

**NOTE:** The flashing display is to remind you to reset the timer.

**NOTE:** If the filter was in a recharge when power was lost, it will now finish the cycle.

## B. FILTER APPLICATIONS

**IMPORTANT:** Sears water filters are sometimes installed alone in the water system, but most often other water treating equipment is needed. Always be sure to have your water tested by a qualified testing laboratory. If you need help, ask at your Sears store, or call the Kenmore Water Line, 1-800-426-9345.

### CLARIFYING FILTER

A Sears Clarifying Filter takes sediments such as dirt, sand, silt, clay and fine organic matter out of water. You can see sediments in water by filling a clear drinking glass. When held up to light, you can see the particles floating in the water, or settled to the bottom of the glass. The filter is filled with "filter aggregate" mineral that traps and holds the sediments as the water flows through it.

The Clarifier is sometimes installed alone but is often followed by a water softener. Besides softening the water, the water softener catches sediments that may get through the filter.

**NOTE:** If you install the clarifying filter along with a Sears Solution Dispensing System, Read the dispensing system owners manual for treating a private well before installing.

### NEUTRALIZER FILTER

All water, when chemically analyzed, is either acid, neutral or base (alkaline). To measure this, the water is given a pH value between 0 and 14. Water is acid if the pH is from 0 to 6.9. At 7, the water is neutral, and above that the water is alkaline.

Your Sears neutralizing filter treats acid water when the pH is from 6.0 to 6.7. A Sears Cartridge Filter with a Phosphate Crystal Cartridge is often used to treat water with a pH of 6.8 to 6.9. Acid water shortens the life of iron pipe, corrodes copper and brass pipe, and makes green stains on plumbing fixtures. In time, it will even etch porcelain enamel. The filter has a special mineral (Neutralite) that raises the pH of the water to help reduce these acid water problems.

### TASTE & ODOR FILTER

A Sears taste & odor filter removes most tastes, odors and certain organic colors from water. Bad tastes and odors come from many different causes. Often, one causes the other. The activated carbon bed, in the taste & odor filter, has a great ability for taking tastes and odors out of water.

**NOTE:** If your water has hydrogen sulfide (rotten egg taste or odor), be sure to get a qualified testing laboratories recommendation for proper treatment.

## C. FILTERED WATER SERVICE, AND BACKWASH

### SERVICE

#### CLARIFIER FILTER

During service (Figure 6) water goes into the filter and DOWN through the bed of mineral. The mineral takes the dirt, sand, silt, clay and other sediments out of the water and holds it in the bed. Clear, clean water goes out of the filter and into the house pipes.

#### NEUTRALIZER FILTER

As low pH (acid) water flows DOWN through the filter, neutralite mineral is slowly dissolved to raise the pH. The neutralized or non-acid water then flows into the house water pipes. Because the neutralite does dissolve, you have to add new mineral at least once each year, and sometimes more often (see page 3-1).

#### TASTE AND ODOR FILTER

The taste and odor filter is filled with activated carbon. As water flows into and DOWN through the filter (Figure 6), the tastes and/or odors are adsorbed and held by the carbon. Water without bad tastes or odors goes into the house pipes.

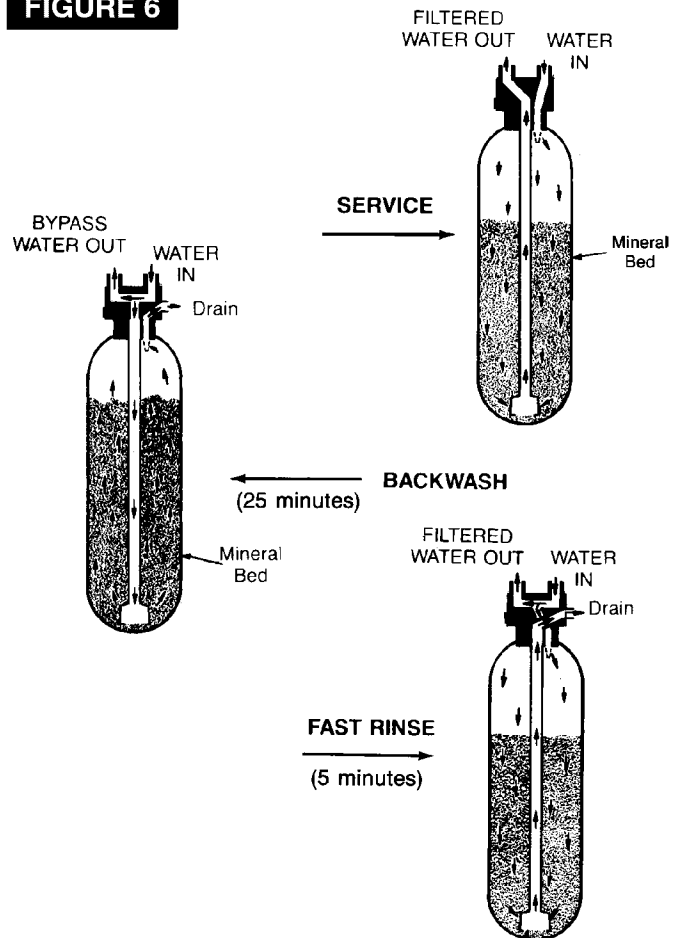
When the activated carbon no longer takes the tastes and/or odors out of the water, you must replace it (see page 3-3). The carbon usually lasts for up to one year, and sometimes longer. It depends on how much water you use, and how much taste and/or odor is in the water.

### BACKWASH

Backwash is a reverse or UPWARD fast flow of water through the filter. The fast, upward flow flushes dirt, sediment, iron, etc., from the mineral bed and to the drain. The bed is lifted and expanded for good cleaning. The bed is also mixed to remove any channels water flow may have formed through the mineral.

Following backwash, water again changes direction to flow downward through the bed at a fast rate. The mineral bed is repacked and prepared for return to service.

**FIGURE 6**



SECTION  
3

## A. KEEP THE FILTER FROM FREEZING

If the filter is installed where it could freeze (summer cabin, lake home, etc.), you must drain all water from it to stop possible damage caused by freezing. To drain the filter -

1. Close the shut off valve on the house main water pipe, near the water meter or pressure tank.
2. Open a faucet in the filtered water pipes to vent pressure in the filter.
3. Looking at Figure 9 on page 4-1, move the stem in a single bypass valve to bypass. Close the inlet and outlet valve in a three valve bypass system, and open the bypass valve.
4. Unplug the transformer at the wall outlet.
5. Pull the holding clip to remove the drain fitting, with drain hose attached, from the valve. **DO NOT LOSE THE BLACK RUBBER FLOW PLUG AND RETAINER.**
6. Remove the plastic clips (see Key No. 12, page 6-3) and pull the adaptors or bypass valve from the inlet and outlet.
7. Move the filter close to the floor drain. **SLOWLY** and **CAREFULLY** (the filter is heavy) tip the filter over so the valve inlet and outlet are over the drain. Allow water to drain from the tank. **DO NOT REST THE FILTER ON THE INLET AND OUTLET FITTINGS OR THEY WILL BREAK.**
8. Tip the bottom of the filter up a few inches and hold until all water has drained. Leave the filter laying like this until you are ready to use it. Plug the inlet and outlet with rags to keep dirt, bugs, etc. out.

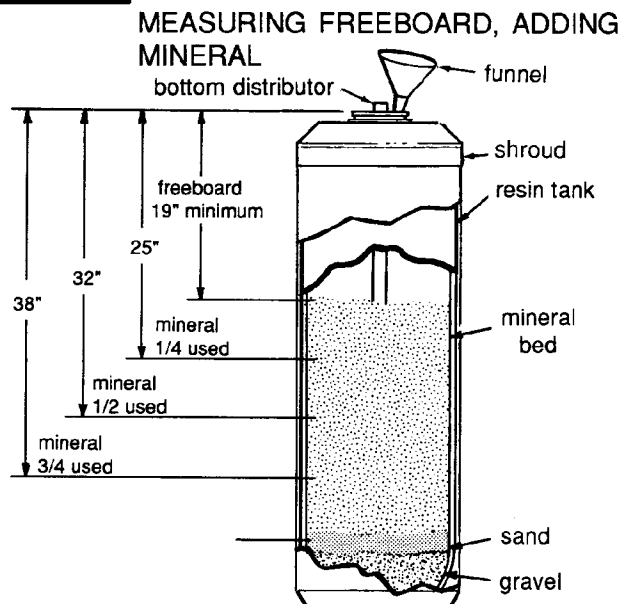
## B. ADDING MINERAL . . . NEUTRALIZER FILTER

The neutralite mineral is slowly dissolved to neutralize acid in the water (see page 2-4). If the filter was never serviced, all the mineral would dissolve. How fast it dissolves depends on how much water is used, the pH of the water, and other supply conditions.

Add new mineral (see below) about 6 months after installation. Before you add new mineral, use a yard stick or tape rule to measure the distance down to the top of the mineral bed (Figure 7). If the measurement is 32" or less, over half of the mineral bed remains. You could wait 9 or 10 months before adding mineral the next time. However, if distance to the bed is 38" or more, less than 1/4 of the mineral remains and adding more mineral every 5 months may be better.

Use this measurement procedure each time, to adjust your mineral adding intervals to changing water use patterns and other conditions.

FIGURE 7



## B. ADDING MINERAL . . . NEUTRALIZER FILTER

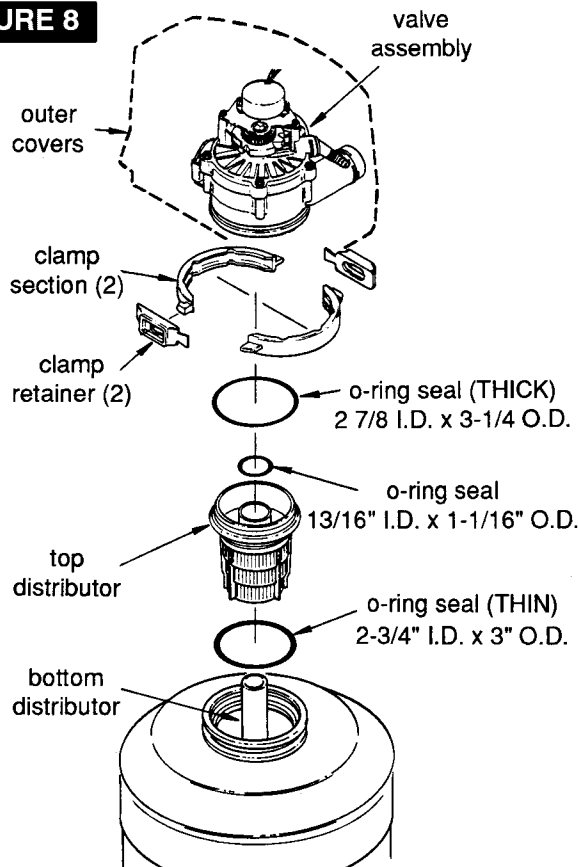
### STEPS TO ADD MINERAL

1. Press the RECHARGE button and hold in for three seconds until "RECHARGE NOW" begins to flash in the display.
2. When water begins to flow from the valve drain hose, place the bypass valve(s) in **BYPASS** position, see Figure 9, page 4-1.

**CAUTION:** BE SURE TO DO STEPS 1 AND 2 AS INSTRUCTED, TO RELIEVE WATER PRESSURE IN THE TANK.

3. Unplug the transformer at the wall outlet.
4. Carefully, pull the two clips (Key No. 12, page 6-3) at the inlet and outlet fittings. Slide the adaptors, or bypass valve, from the filter valve.
5. Referring to Figure 8, remove the clamp retainers (2) and clamp sections (2) that hold the valve to the tank. Lift upward to remove the valve.

**FIGURE 8**



6. Remove the o-rings (3) and top distributor from the top of the tank.
7. To make room for the new mineral, use a hose to siphon water from the tank.
8. Use a large neck funnel, add new mineral into the tank.

**IMPORTANT:** DO NOT ADD MINERAL INTO THE BOTTOM DISTRIBUTOR. Temporarily plug the distributor tube to prevent accidental mineral spills into it.

DO NOT OVERFILL the tank. Freeboard area (see Figure 7) is needed for proper backwashing. If you have mineral remaining, you can use it the next time you refill the tank.

9. Use water to flush the tank top opening. Then, replace the top distributor and three o-rings. Be sure to locate o-ring seals correctly, Figure 8.

10. Carefully, install the valve assembly and retaining clamps. **DOUBLE CHECK TO BE SURE CLAMPS AND RETAINERS ARE SECURELY FASTENED IN PLACE.**

11. Referring to your installation manual, reconnect the filter to the plumbing. **BE SURE THE PLUMBING IS HELD FIRMLY IN PLACE, IN THE VALVE INLET AND OUTLET.**

12. Place the valve drain hose at the drain point and secure into place.

13. Return the plumbing bypass valve(s) to **SERVICE** position.

14. Plug the transformer into the wall outlet. The filter will complete the backwash cycle started in step 1 and will automatically return to service.

### C. REPLACING MINERAL . . . TASTE & ODOR FILTER

Average life of the activated carbon mineral bed is about one year (see page 2-4). It's time to replace the bed when the tastes and/or odors begin to return in the water supply. Do the following.

#### STEPS TO REMOVE AND ADD MINERAL

1. Press the RECHARGE button and hold in for three seconds until "RECHARGE NOW" begins to flash in the display.
2. When water begins to flow from the valve drain hose, place the bypass valve(s) in **BYPASS** position, see Figure 9, page 4-1.

**CAUTION:** BE SURE TO DO STEPS 1 AND 2 AS INSTRUCTED, TO RELIEVE WATER PRESSURE IN THE TANK.

3. Unplug the transformer at the wall outlet.
4. Carefully, pull the two clips (Key No. 12, page 6-3) at the inlet and outlet fittings. Slide the adaptors, or bypass valve, from the filter valve.
5. Referring to Figure 8, page 3-2, remove the clamp retainers (2) and clamp sections (2) that hold the valve to the tank. Lift upward to remove the valve.
6. Remove the o-rings (3) and top distributor from the top of the tank.
7. Next to a floor drain, carefully tip the tank over, catching the used carbon in a burlap sack or other suitable container. Remove the bottom distributor assembly, and flush the inside of the tank with water.

**CAUTION:** HANDLE THE TANK CAREFULLY. IT IS VERY HEAVY WHEN FULL OF WATER AND CARBON. DO NOT ATTEMPT TO LIFT IT BY YOURSELF. DO NOT DROP AND BREAK THE TANK.

8. Stand the tank upright and replace the bottom distributor assembly. Temporarily, plug the top end of the distributor (use a rag, etc.) to prevent accidental mineral spills into it.
9. Using a large neck funnel (Figure 7), first add 17 lbs. of gravel, followed by 10 lbs. of filter sand. Next, add the 1 cu. ft. of activated carbon. Use water sparingly to assist carbon flow through the funnel.

NOTE: Be sure the bottom distributor is centered in the tank while adding mineral.

10. Use water to flush the tank top opening. Then, replace the top distributor and three o-rings. Be sure to locate o-ring seals correctly, Figure 8, page 3-2.
11. Carefully, install the valve assembly and retaining clamps. **DOUBLE CHECK TO BE SURE CLAMPS AND RETAINERS ARE SECURELY FASTENED IN PLACE.**
12. Referring to your installation manual, reconnect the filter to the plumbing. **BE SURE THE PLUMBING IS HELD FIRMLY IN PLACE, THE THE VALVE INLET AND OUTLET.**
13. Place the valve drain hose at the drain point and secure in place.
14. Return the plumbing bypass valve(s) to **SERVICE** position.
15. Plug the transformer into the wall outlet. The filter will complete the backwash cycle, started in step 1, and will automatically return to service.

NOTE: All new carbon mineral contains some smaller than normal particles called "fines". Backwashing the filter removes the fines. If, after the backwash in step 15 is over, fines are still in the filtered water, repeat step 1 for added backwashing.

## D. BEFORE YOU CALL FOR SERVICE. . .HELPFUL HINTS CHECKLIST

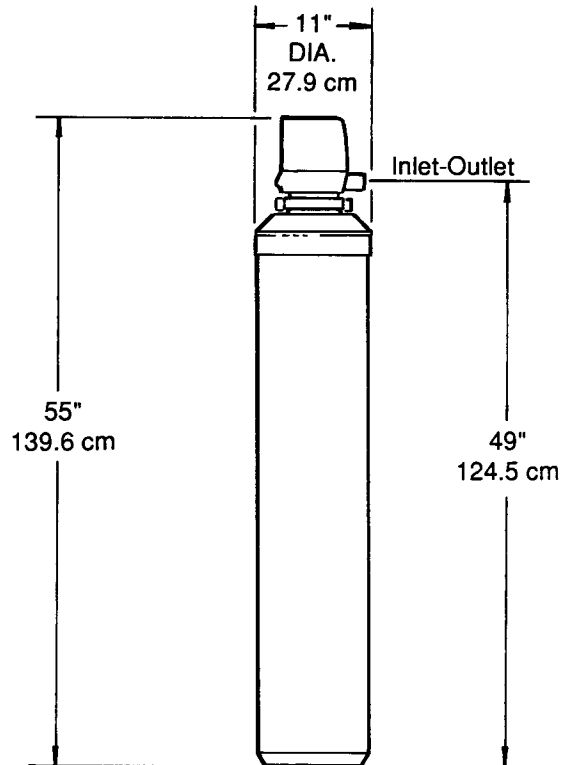
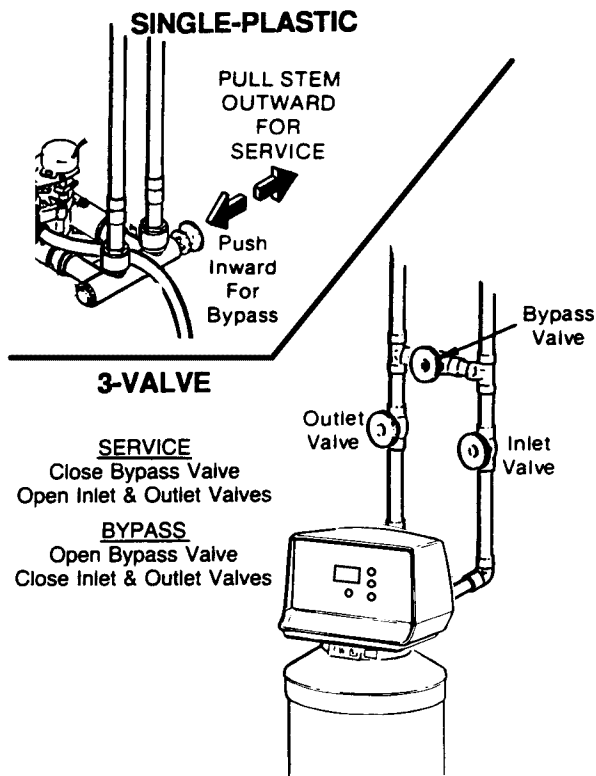
PROBLEM	CAUSE	CORRECTION
FILTER WILL NOT BACKWASH	Manual bypass valve(s) in bypass position	See Figure 9, page 4–1. Move stem in a single bypass valve to SERVICE. In a three valve bypass, open the inlet and outlet valves, close the bypass valve.
	Transformer unplugged at wall outlet, power cable disconnected from electronic board, fuse blown/circuit breaker popped, or circuit switched off.	Check for loss of power and correct. Reset the times and use the RECHARGE NOW feature, see page . Also see “Electric Power Outlet For Your Filter” page 17, in the installation manual.
	Timer in the vacation (VAC) position	Press the RECHARGE button once to return the filter to service, see page 2–1.
	An error code shows in the face-plate display	See page 2–1.
	Backwash flow washer plugged	See Key No. 9, page 6–3, and remove drain hose adaptor to clean.
	Drain hose plugged, kinked or bent	Straighten hose, or remove and clean.
LOW WATER PRESSURE AT HOUSE FAUCETS	Well pump pressure switch set too low	Adjust to a minimum of 20 psi.
	Backwash needed more often to keep filter mineral clean	See page 1–4 to program more backwashes.
FILTERED WATER CONTAINS SEDIMENTS, IRON, DIRT, SAND, ETC.	See all conditions under Filter Will Not Backwash, above.	See above.
NEUTRALIZER FILTER ONLY: FILTER WATER IS ACID OR PARTLY ACID  NOTE: Trace plumbing to be sure faucet(s) is on filtered water service.	Manual bypass valve(s) is bypass position	See above.
	Filter low on neutralite mineral	Add new mineral, see page 3–2.
TASTE & ODOR FILTER ONLY: FILTERED WATER HAS BAD TASTE AND/OR ODOR  NOTE: Trace plumbing to be sure faucet(s) is on filtered water service.	Manual bypass valve(s) is bypass position	See above.
	Activated carbon mineral bed is exhausted	Replace mineral, see page 3–3.



## A. DIMENSIONS / SPECIFICATIONS

SECTION  
4

FIGURE 9 BYPASS VALVES



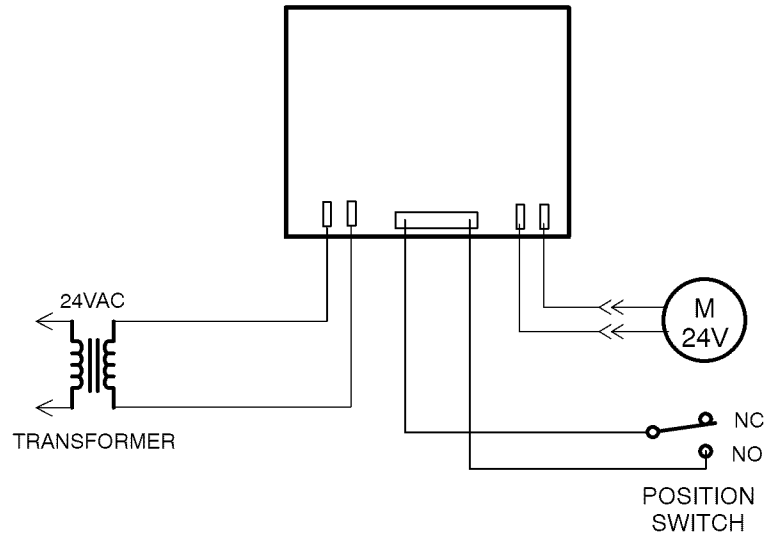
Mineral Tank Nominal Size: 10" dia. x 47" high

	<b>CLARIFIER</b> 625.348235	<b>NEUTRALIZER</b> 625.348242	<b>TASTE &amp; ODOR</b> 625.348252
TYPE OF FILTERING MINERAL	Aggregate	Neutralite	Activated Carbon
AMOUNT OF FILTERING MINERAL	1.0 Cu. Ft. (.028 Cu M)		
WATER PRESSURE LIMITS (Min. – Max.)	20 to 125 PSI (1.4 to 8.4 KG/Sq/Cm)		
MAXIMUM WATER TEMPERATURE	120° F (48.9° C)		
MINIMUM WELL PUMP CAPACITY	270 Gal/Hr (1022 Liter/Hr)		
MIN. PIPE SIZE TO FILTER	3/4 In. (19 mm)		
BACKWASH FLOW RATE*	4.5 Gal/Min (17 Liter/Min)		
SERVICE FLOW RATE / CAPACITY	See Rating Decal on Filter		

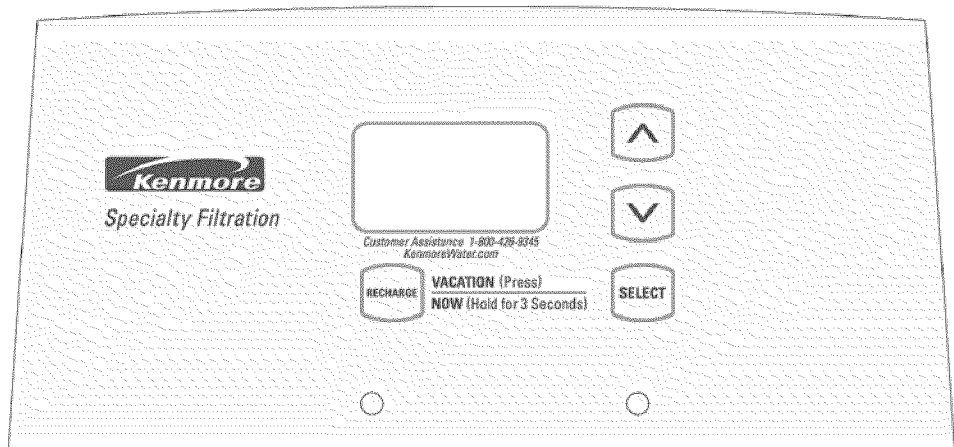
\* At 35 psi inlet water pressure

## A. TROUBLESHOOTING

## WIRING SCHEMATIC



## FACE PLATE TIMER



## A. TROUBLESHOOTING

ALWAYS MAKE THESE INITIAL CHECKS FIRST

1. Does the time display show the correct time of day?

...If display is blank, check power source to the filter.

...If time is flashing, power was off for over two days. The filter resumes normal operation but recharges occur at the wrong time.

2. Plumbing bypass valve(s) must be in SERVICE position (see Figure 9, page 4-1).

3. The inlet and outlet pipes must connect to the filter inlet and outlet respectively.

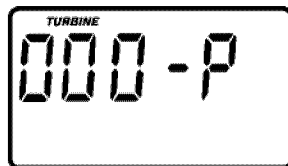
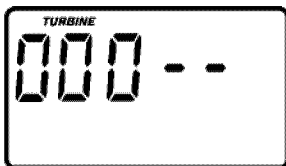
4. Is the transformer plugged into a "live" grounded wall outlet, and the power cable fastened securely?

5. The valve drain hose must be free of kinks and sharp bends.

If you do not find the problem after making the initial checks, do the MANUAL ADVANCE DIAGNOSTICS.

### MANUAL INITIATED ELECTRONICS DIAGNOSTIC

1. To enter diagnostics, press and hold the SELECT button until (000- -) shows in the display.



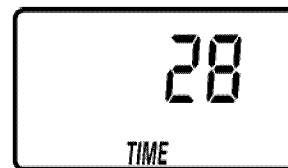
The letter (P) and dash or dashes indicate position switch operation. The letter shows if the switch is closed. A dash shows when the switch is open.

SWITCH DISPLAYS	VALVE CYCLE STATUS
--	valve in service, fill, draw, back-wash or fast rinse position
- P	valve rotating from one position to another

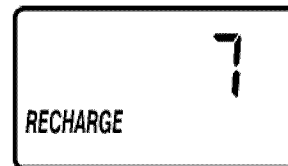
Use the RECHARGE button to manually advance the valve into each cycle and check correct switch operation.

While in this diagnostic screen, the following information is available and may be beneficial for various reasons. This information is retained by the computer from the first time electrical power is applied to the face plate.

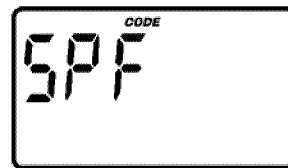
...Press the UP button to display the number of days this face plate has had electrical power applied.



...Press the DOWN button to display the number of regenerations initiated by this face plate since the model code number was entered.



2. Press the SELECT button and *hold* for 3 seconds until the model code appears in the display.



**NOTE:** For correct filter operation, the model code must be SPF.

To reset the code, press the UP or DOWN buttons until the correct model code shows in the display.

3. Press the SELECT button to return the present time display. If the code was changed, make ALL the timer settings, page 1-3 and 1-4.

**NOTE:** If the face plate is left in a diagnostic display (or a flashing display when setting times or days to recharge), preset time automatically returns if a button is not pressed within 4 minutes.

## A. TROUBLESHOOTING

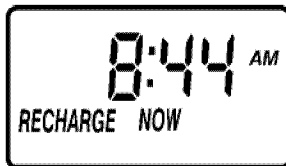
### MANUAL ADVANCE DIAGNOSTICS

Use the following procedures to advance the filter valve through the regeneration cycles to check operation.

Remove the top cover to observe cam and switch operation during valve rotation.

#### DISPLAY MUST SHOW TIME AND DAY

1. Press and hold the RECHARGE button for 3 seconds until RECHARGE NOW flashes in the display and the filter moves into the backwash cycle.



...If the motor does not run, check the motor and all wiring connections.

2. Look for a fast flow of water from the drain hose (see specifications, page 4-1).

...An obstructed flow indicates a plugged top distributor, backwash flow plug, or drain hose.

Be sure household water pressure (well system) is maintained at a minimum of 20 psi. Adjust the pump switch upward, if needed.

3. Press the RECHARGE button to move the filter into fast rinse. Again, look for a drain flow rate about the same as backwash.

4. To return the filter to service, press the RECHARGE button once.

### OTHER SERVICE

UNFILTERED WATER BYPASS (unfiltered water "bleeds" into filtered water supply).

1. Missing or defective o-ring(s) at resin tank to valve connection.

2. Defective rotor disc, seal or wave washer.

WATER LEAKS FROM DRAIN HOSE (during service)

1. Defective rotor disc, seal, or wave washer.

2. Defective o-ring on disc shaft.

### AUTOMATIC ELECTRONIC DIAGNOSTICS

The face plate has a self diagnostic function for the electrical systems (except input power). The face

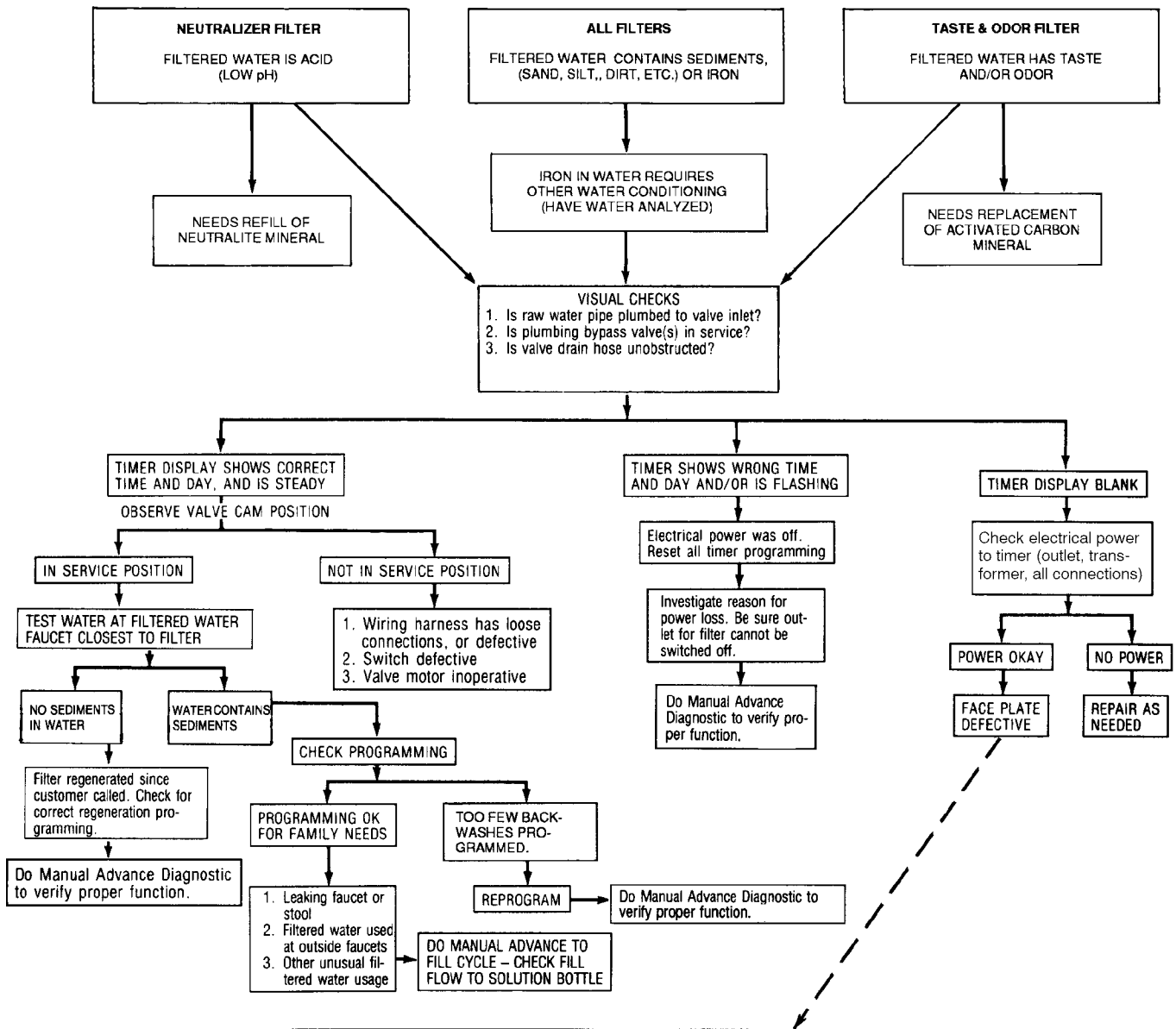
plate monitors the electronic components and circuits for correct operation. If a malfunction occurs, an error code appears in the face plate display.

#### POSSIBLE DEFECT

CODE	MOST LIKELY >----->	LEAST LIKELY
Err 01, Err 03 & Err 04	wiring harness or connection to position switch / switch / valve defect causing high torque / motor inoperative	
Err 05	faceplate	

**PROCEDURE FOR REMOVING ERROR CODE FROM FACEPLATE:** 1. Unplug transformer---- 2. Correct defect---- 3. Plug in transformer---- 4. Wait for 12 minutes. The error code will return if the defect was not corrected. Press and hold the RECHARGE button for 3 seconds as an alternate way to clear an error code.

## A. TROUBLESHOOTING

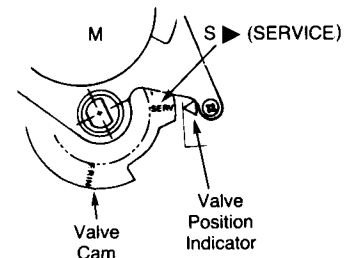


FACEPLATE REPLACEMENT: BE SURE THE VALVE IS IN SERVICE POSITION (OBSERVE VALVE CYCLE INDICATOR) WHEN REPLACING THE FACEPLATE.

If after installing and programming the replacement faceplate, the valve is not in service position, do the following to assure correct cycle orientation, or timing, between the faceplate and valve.

Use the MANUAL ADVANCE procedures, page 5-3. With the the RECHARGE button, advance through the recharge cycles until the valve stops in service position, and RECHARGE no longer flashes in the timer.

NOTE: The valve motor may automatically drive through several valve positions while searching for service.



## B. ROTARY VALVE SERVICE

BEFORE WORKING ON THE VALVE, TURN OFF THE WATER SUPPLY AND DISCONNECT FROM ELECTRICAL POWER. TO RELIEVE PRESSURE.

... THREE VALVE BYPASS: Close the inlet and open a filtered water faucet. Then close the outlet valve and open the bypass valve.

... SEARS SPECIAL BYPASS: Slide the bypass valve stem to bypass position. Loosen the three hex head screws (see A in drawing) toward the backside of the valve to allow pressure water to bleed out (catch water with a rag).

### DISASSEMBLY

To remove a part or group of parts, refer to the valve drawing. A common screwdriver or nut driver, Phillips screwdriver and pliers are the only tools needed to completely disassemble.

### SERVICING THE VALVE

Inspect all o-rings, seals and gaskets for wear or defects.

Inspect the bottom surface of the rotor and disc for scratches, chips or wear.

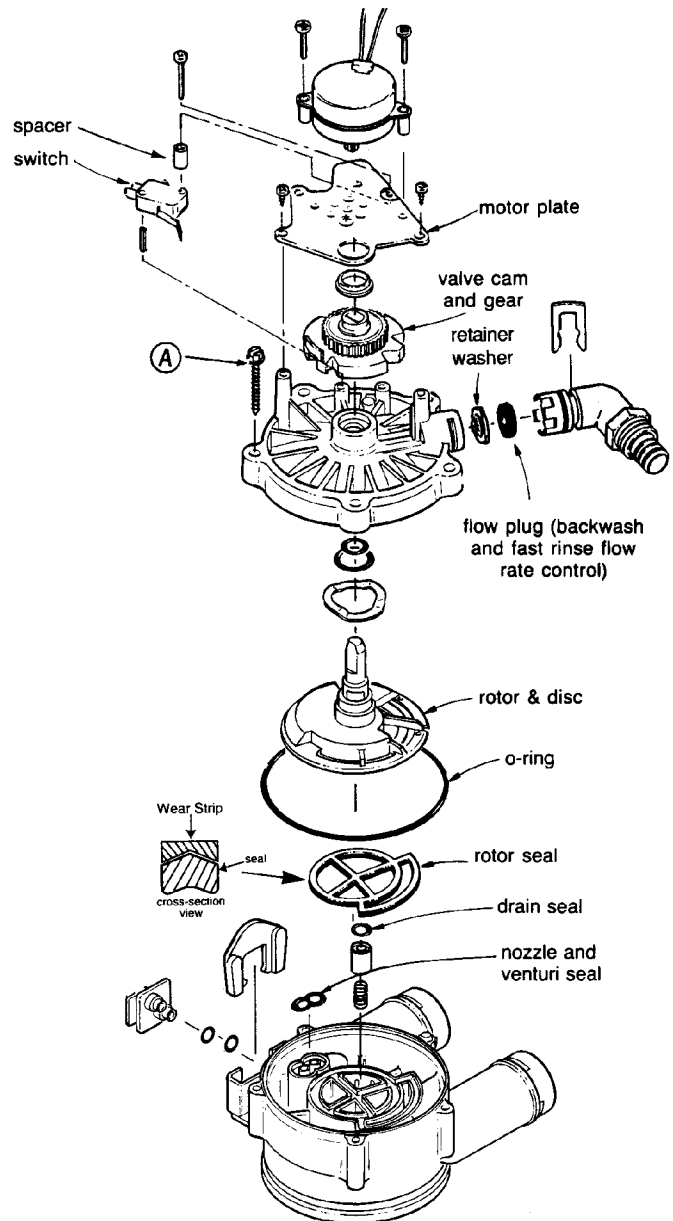
NOTE: If a replacement is needed, be sure to use the current replacement part.

### ASSEMBLY

Be sure all parts are in place and in the proper position. Lubricate ALL o-rings, and seals with FDA approved silicone grease. To install the rotor seal, first place the seal into the valve groove, round side down (see cross section). Apply a light coating of silicone grease to the seal's crossing ribs. Then carefully center the wear strip on the seal, and push it downward onto the seal.

Install the nozzle and venturi seal and drain seal. Assemble two o-rings and the wave washer onto the rotor and disc. The center the rotor and disc, in the valve body, on the rotor seal.

Lower the cover onto the valve body and rotor shaft. Then install the cover holding screws. BEFORE TIGHTENING THE SCREWS, INSTALL THE VALVE CAM AND GEAR, THEN TURN THE ROTOR (CLOCKWISE ONLY) TO SERVICE POSITION.

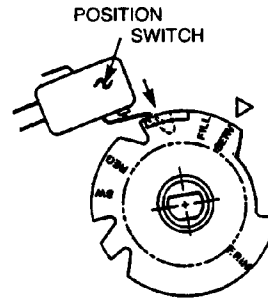
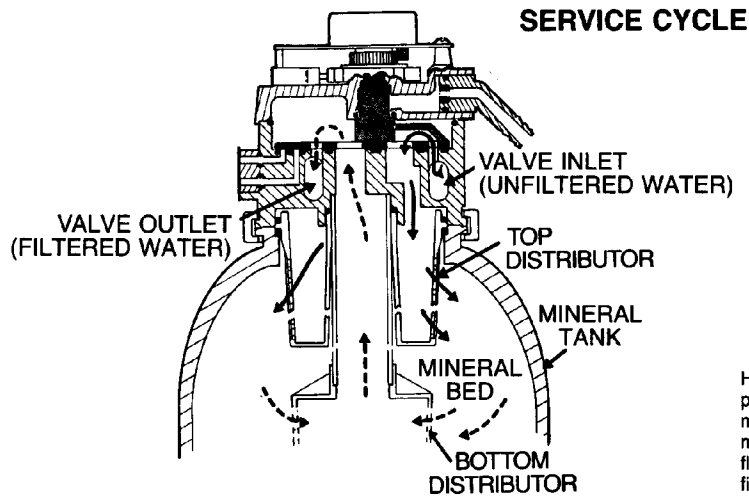


Tighten the screws using a criss-cross pattern. If a torque wrench is available, torque to 30-40 inch pounds.

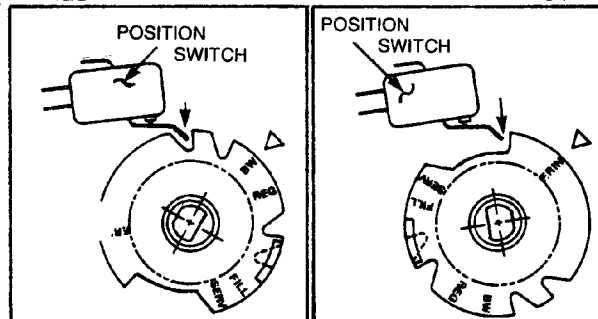
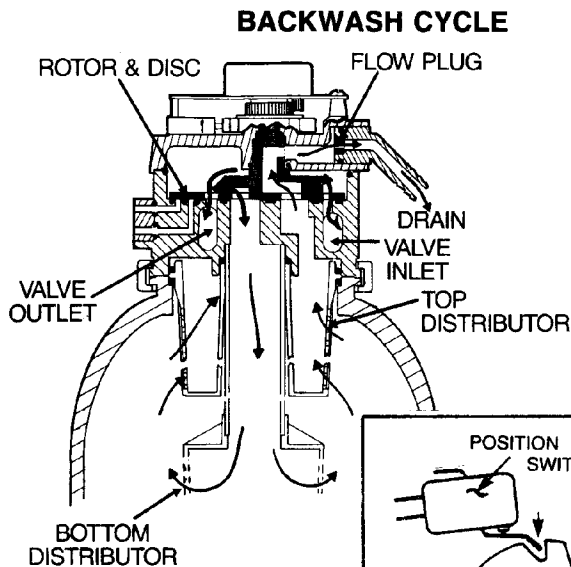
Lubricate the gear on the motor, and the valve cam gear with Molykote grease, or other high quality gear lubricant.

Be sure to orient switch as shown, with lever toward the valve cam.

## C. WATER FLOW THROUGH THE FILTER VALVE

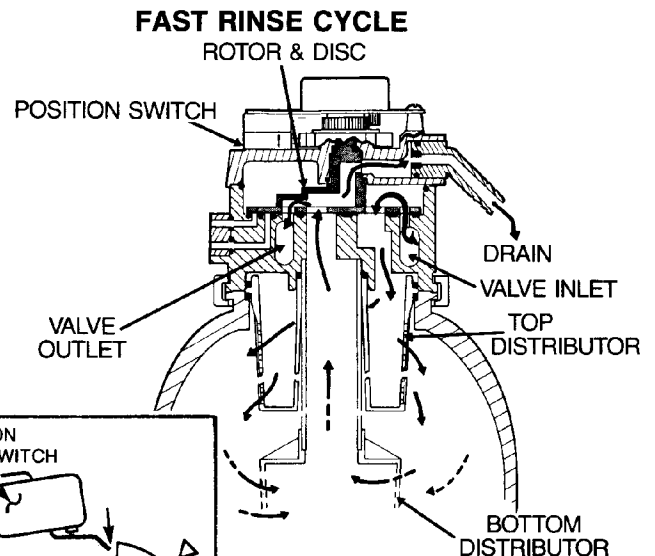


Hard, unfiltered water enters the valve inlet port. Internal valve porting routes the water down and out the top distributor, into the mineral tank. The water is filtered as it passes through the mineral bed, then enters the bottom distributor. Filtered water flows back into the valve and out the valve outlet, to the house filtered water pipes.



Timer/switch action allows the motor to turn the rotor & disc to place the valve in BACKWASH. Water is routed down and out the bottom distributor, up through the bed, and out the top distributor to the drain. The fast flow (controlled by a flow plug in the drain fitting) flushes dirt, sediments and iron deposits to the drain.

During FAST RINSE, the rotor & disc is positioned so water flow enters the mineral tank through the top distributor, and exits through the bottom dis-

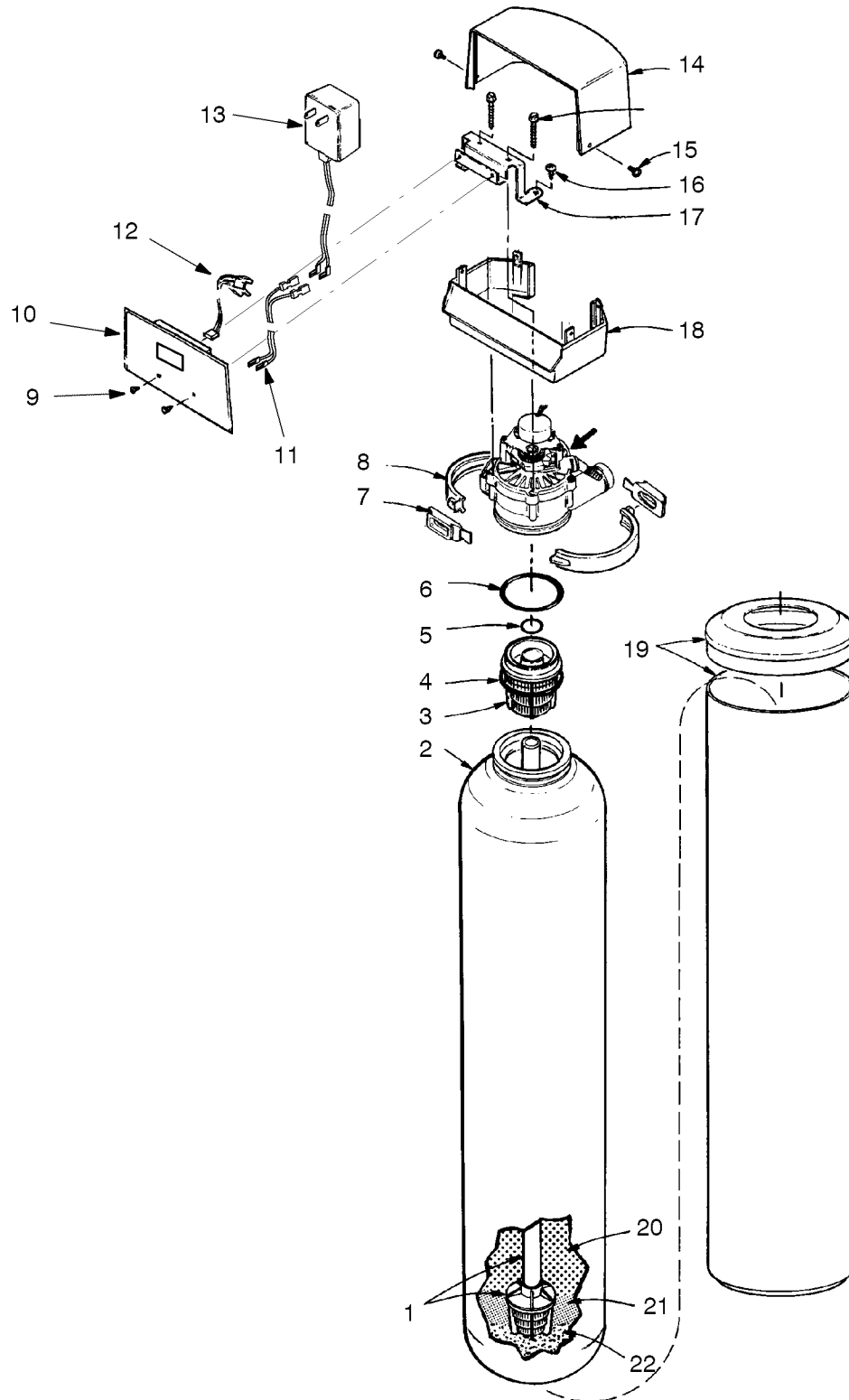


tributor, to the drain. The fast flow of water downward through the mineral bed flushes any remaining sediments to the drain. The mineral bed is packed and prepared for return to service.

The timer again energizes the motor to return the valve to service. As the valve rotates, the position switch lever drops to open the circuit. The valve remains positioned in service until the timer initiates the next regeneration.

SECTION  
6

Kenmore Clarifier, Model No. 625.348235  
 Neutralizer, Model No. 625.348242  
 Taste & Odor, Model No. 625.348252



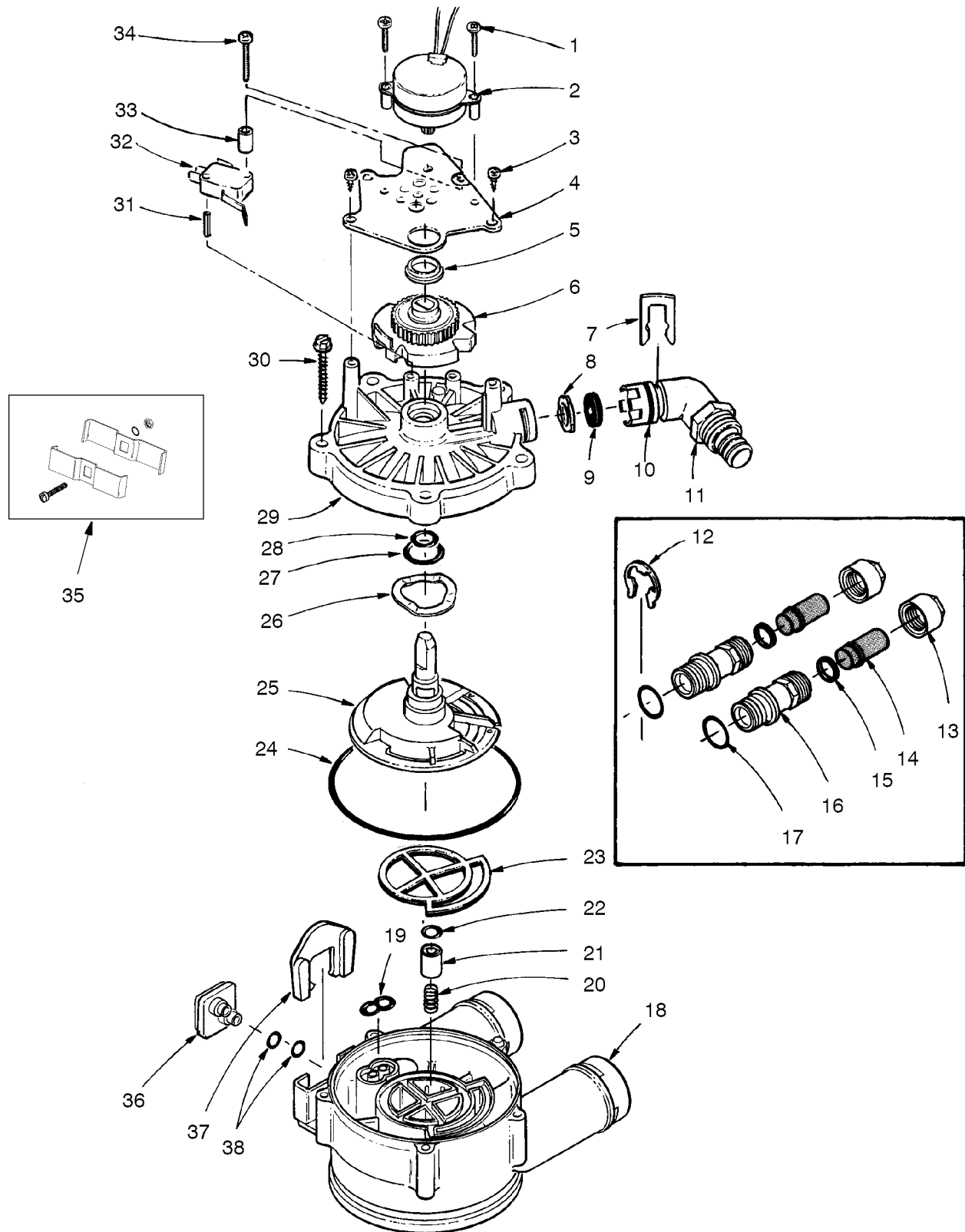


**Kenmore Clarifier, Model No. 625.348235**  
**Neutralizer, Model No. 625.348242**  
**Taste & Odor, Model No. 625.348252**

KEY NO.	PART NUMBER	DESCRIPTION
1	7105047	Bottom Distributor & Standpipe
2	7092202	Mineral Tank
3	7088855	Top Distributor
4	7170270	O-Ring, 2-3/4 x 3
5	7170254	O-Ring, 13/16 x 1-1/16
6	7170296	O-Ring, 2-7/8 x 3-1/4
7	7088033	Clamp Retainer (2 req'd)
8	7176292	Clamp Section (2 req'd)
9	0900300	Screw, #4-40 x 1/4 (2 req'd)
10	7285677	Faceplate Timer
11	7128566	Power Cable Wire Harness
12	7259927	Wire Harness
13	7275907	Transformer
14	7144449	Top Cover
15	7103972	Screw, #8-18 x 7/16 (4 req'd)
16	0900291	Screw, #8-32 x 3/8 (2 req'd)
17	7288120	Cover Bracket
18	7144431	Bottom Cover
19	7092210	Shroud
◆	7026196	Base (styrofoam)
20	0505647	Filter Aggregate, Model 625.348235
	3423699	Neutralite, Model 625.348242
	3424509	Carbon, Model 625.348252
21	0501783	Filter Sand, 10 lbs.
22	7124415	Gravel, 17 lbs.
◆	7282661	Owner's Manual
◆	7146611	Installation Manual

◆ not illustrated

Kenmore Clarifier, Model No. 625.348235  
Neutralizer, Model No. 625.348242  
Taste & Odor, Model No. 625.348252



**SEARS WATER FILTERS**  
**Clarifier, Model No. 625.348234**  
**Neutralizer, Model No. 625.348241**  
**Taste & Odor, Model No. 625.348251**

KEY NO.	PART NO.	DESCRIPTION
1	7131755	Screw, #6-20 x 7/8 (2 req'd)
2	7285936	Motor
3	0900857	Screw, #6-20 x 3/8 (2 req'd)
4	7288112	Motor Plate
5	0503288	Bearing
6	7284964	Cam & Gear
7	7142942	Clip (Drain)
8	7030585	Washer, Retainer
9	0509537	Flow Plug
10	7170327	O-Ring, 5/8 x 13/16
11	7141239	Drain Hose Adaptor
12	7116713	Clip (2 req'd) ●
13	0507369	Installation Nut (2 req'd) ■
14	0507615	Installation Tube (2 req'd) ■
15	7170335	Washer (2 req'd) ■
16	2207800	Installation Adaptor (2 req'd) ●
17	7170288	O-Ring, 15/16 x 1-3/16 (2 req'd)
18	7082053	Valve Body
19	7081764	Seal
20	7129889	Spring

KEY NO.	PART NO.	DESCRIPTION
21	7092642	Plug (Drain Seal)
22	7170204	O-Ring, 3/8 x 9/16
23	7134224	Rotor Seal
24	7170246	O-Ring, 3-3/8 x 3-5/8
25	7199232	Rotor & Disc
26	7082087	Wave Washer
27	7170212	O-Ring, 3/4 x 15/16
28	7170238	O-Ring, 7/16 x 5/8
29	7085263	Valve Cover
30	7174123	Screw, #10-14 x 2 (5 req'd)
31	7077472	Expansion Pin
32	7030713	Switch
33	7117816	Spacer
34	7070412	Screw, #4-24 x 1-1/8
35	7248706	Ground Clamp ●
36	7100940	Plug
37	7081201	Clip (Nozzle & Venturi)
38	7170319	O-Ring, 1/4 x 3/8 (2 req'd)
◆	7111941	Small Parts Bag (Includes all items marked with ●)
◆	7129716	Seal Kit (Includes Key Nos. 19, 22, 23, 24, 27 and 28)

◆ Not Illustrated

■ Parts not included with filter – available from Sears Stock No. 42-3441

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