OWNERS N

SEARS

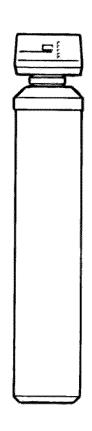
Kenmore

Water Filters

MODEL NOS.

625.348233 Clarifier 625.348240 Neutralizer 625.348250 Taste & Odor

- WARRANTY -
- START UP/SETTING TIMER -
 - HOW IT WORKS -
 - CARE OF -
 - SPECIFICATIONS -
 - REPAIR PARTS —



(Use plastic bag and tie provided, to hang manuals nearby the filter for future reference.)

SEARS RESIDENTIAL WATER FILTER

FULL ONE YEAR WARRANTY ON FILTER

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

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 Liabilility.

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 AN | 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 Mode | el No. † | | |
| Serial Number | | | |
| Date Installed | | | |
| Iron Content | Parts Per Million | | |
| *pHTas | te And/Or Odor | | |
| | Pounds /Square Inch | | |
| Water Flow Rate_ | Gallons Per Minute | | |
| | | | |
| | per is on the rating decal, | | |
| located on the ba | ck of the filter top cover. | | |

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1A. 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 11. 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 18.
- ▲ Protect the filter and piping from freezing. Damage from freezing voids the filter warranty. See page 13.

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

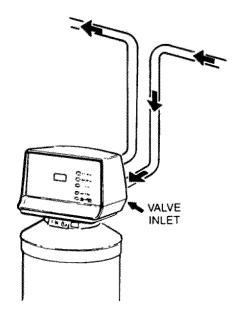
- ▲ THIS FILTER WORKS ON 24 VOLTS ONLY. BE SURE TO USE THE TRANSFORMER IN-CLUDED, AND PLUG IT INTO A 120V OUTLET.
- ▲ Unplug the transformer right away if the power cable should become damaged or frayed. Make repairs before plugging back into the power outlet.
- ▲ Always unplug the filter from electrical power before removing outer valve covers.

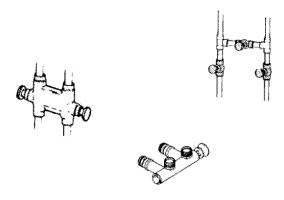
1B. CHECK LIST OF ALL STEP BY STEP GUIDES TO INSTALL

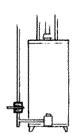
Refer to the Installation Manual, part no. 7146611, for step-by-step guides.

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 3 valves) set for SERVICE?... See FIG. 8, page 18 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 filter power cable connected to the transformer... and is the transformer plugged into an inside, 120V-60Hz electrical outlet?... page 17.
- ✓ Be sure to restart the water heater . . . page 18.







1C.

SANITIZING THE WATER FILTER

Care is taken at the factory to keep your water filter clean and sanitary. Materials used to make the filter will not infect or contaminate your water supply, and will not cause bacteria to form or grow. However, during shipping, storage, installing and operating, bacteria could get into the filter. For this reason, sanitizing as follows is suggested the when installing.

1. Press and HOLD button 5
on the face plate until RCHG
begins to flash in the display
(12:00 AM began to flash
when the transformer was plugged in). Water
will begin to run from the drain hose as the filter
valve moves into backwash position.

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

- 2. In about 2 minutes, PUT THE BYPASS VALVE(S) IN BYPASS POSITION (SEE FIG. 8, PAGE 18). Then, press button 5 once again to return the filter valve to service position. Doing this releases water pressure in the filter.
- Carefully remove the large plastic clip at the filter valve inlet (see Key No. 41, page 26). Pull the valve adaptor from the filter inlet.

NOTE:

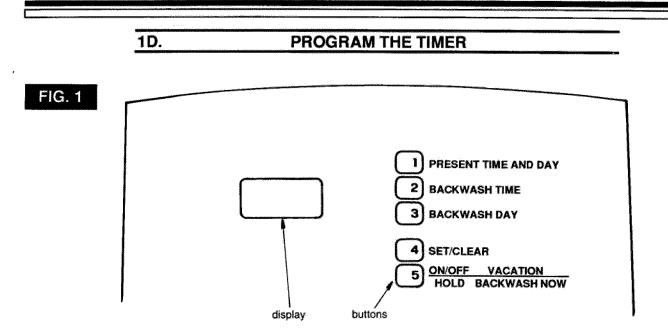
If bypass valve, Sears Stock No. 42-3437 is installed, or if plumbing is too rigid to move, also disconnect the outlet side and move the filter away from plumbing.

4. Put 1 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 using 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.
- SLOWLY, reposition the bypass valve(s) to service... FIG. 8, page 18. Open the nearest <u>filtered</u> water faucet until you can smell chlorine, then close.
- 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 the 45 minutes, return the bypass valve(s) to service. Then, press face plate button 5 to start a backwash. While the filter completes this automatic backwash and fast rinse . . . takes about 35 minutes . . . turn to page 7 and make the timer settings.
- **9.** When the backwash/fast rinse is over (water flow to drain stops), open filtered water faucets until chlorine odor is gone, then close the faucets.
- Recommended by the Water Quality Association. On some water supplies, the water filter may need periodic disinfecting.



When the transformer is plugged into the electrical outlet, 12:00 AM, SUnday began to flash in the time display. Set the time of day, present day of week, and days/time of backwash, as follows.

1. SET TIME OF DAY

- **a.** Press the PRESENT TIME AND DAY button 1 once. The hour display continues to flash.
- **b.** Press the SET/CLEAR button 4 until the present hour of the day shows in the display. Be sure AM for morning hours, or PM for afternoon and evening hours shows.

NOTE:

Press SET/CLEAR and quickly release to move the hour display ahead 1 at a time to the correct hour. Or, hold the SET/CLEAR button to move the display ahead 2 hours each second, to the correct hour.

- C. Press button 1 once to steady the hour display, and minutes begin to flash. Repeat step 1b to set the correct minutes.
- **d.** Press button 1 again to steady the minute display (day will begin flashing). Figure 2 shows the timer set at 3:30 PM.

2. SET PRESENT DAY OF WEEK

a. Press the SET/CLEAR button 4 to set the present day of the week in the display.

NOTE:

Press SET/CLEAR and quickly release to move the day display 1 at a time. Or, hold the SET/CLEAR button to move the day display ahead 2 days each second.

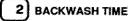
b. Press the PRESENT TIME AND DAY button 1 again to steady the entire display. Figure 2 shows the timer set at TUesday.

FIG. 2



EXAMPLE: This drawing shows the present time of day at 3:30 PM, and the present day on TUesday.

| | PRESENT | TIME | AND | DAY |
|--|---------|------|-----|-----|
|--|---------|------|-----|-----|



3 BACKWASH DAY

4 SET/CLEAR

5 ON/OFF VACATION HOLD BACKWASH NOW

(continued)

2A. **FACE PLATE TIMER FEATURES**

BACKWASH NOW

For times you expect to use more water than usual, use the BACKWASH NOW feature. Press the BACHWASH NOW-HOLD button [5] and hold in for 3 seconds. RCHG begins to flash in the display and a backwash starts right away. You will have filtered water when the backwash is over in about 35 minutes.

FIG. 3

PRESENT TIME AND DAY

BACKWASH TIME

BACKWASH DAY

SET/CLEAR

ON/OFF **VACATION HOLD BACKWASH NOW**

VACATION — The day you leave on vacation, or other long absence, press (DO NOT HOLD IN) the ON/OFF-VACATION button 5. VAC begins to flash in the display (FIG. 4). The timer will keep time. but the filter will not backwash and waste water.

NOTE:

To shut off the water supply to the filter, use the plumbing bypass valve(s) . . . FIG. 8, page 18.

When you return, press the VACATION button again to return the filter to service, and the correct time of day in the display. Remember to do this or the filter will not backwash to keep the mineral bed clean.

FIG. 4

LIAC

PRESENT TIME AND DAY

BACKWASH TIME

BACKWASH DAY

SET/CLEAR

ON/OFF VACATION BACKWASH NOW

ERROR CODE

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 your local Sears Service Department for service.

Continued

2A.

FACE PLATE TIMER FEATURES

TIMER "POWER-OUTAGE MEMORY" — If electrical power to the timer goes off, the "memory" built into timer circuitry keeps all settings for 5 hours (minimum) or more. The display is blank and the filter will not backwash. When electrical power comes on, 1 of 2 things will happen.

1. The present time of day will show, meaning the timer memory has kept all settings.

NOTE:

If the filter was in a backwash when power was lost, it will now finish the cycle.

The display will show a time, but it will be flashing. The timer memory did not keep the time settings and they must be reset, pages 7 and 8.

The flashing display is to remind you to reset the timer.

NOTE:

When power comes on, the flashing display returns to a time of 12:00 AM Sunday, then begins to keep time again. If you do not reset all time settings, the filter will backwash 3 days each week. However, backwash will most likely be on the wrong days and at the wrong time.

If the filter was in a backwash when power went off, the valve will return to service position without finishing the cycle. To start another backwash... use BACKWASH NOW, page 9.

2B.

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 Sears 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 will 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.

2C. FILTERED WATER SERVICE, AND BACKWASH

SERVICE

CLARIFIER FILTER

During service (FIG. 5) 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 14).

TASTE AND ODOR FILTER

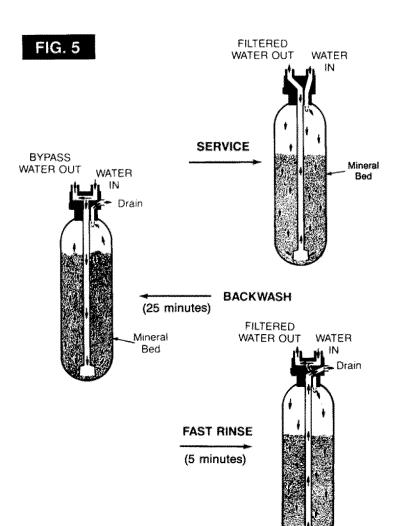
The taste and odor filter is filled with activated carbon. As water flows into and DOWN through the filter (FIG. 5), the tastes and/or odors are adsorbed and held by the carbon. Water without bad tastes or odors goes into the house pipes.

When the activated carbon no longer takes the tastes and/or odors out of the water, you must replace it (see page 16). The carbon usually lasts for up to 1 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.



3A. 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 freeze damage. To drain the filter —

- 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.
- Looking at FIG. 8 on page 18, move the stem in a single bypass valve to bypass. Close the inlet and outlet valve in a 3-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,

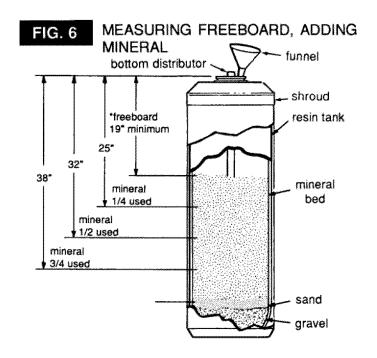
- with drain hose attached, from the valve. DO NOT LOSE THE BLACK RUBBER FLOW PLUG AND RETAINER.
- Remove the plastic clips (see key #41, page 26) and pull the adaptors or bypass valve from the inlet and outlet.
- 7. Move the filter close to the floor drain. SLOWLY and CAREFULLY (the filter is heavy) tip the filter over so the valve inlet and outlet are over the drain. Allow water to drain from 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. <u>Leave the filter</u> <u>laying like this</u> until you are ready to use it. Plug the inlet and outlet with rags to keep dirt, bugs, etc. out.

3B. ADDING MINERAL . . . NEUTRALIZER FILTER

The neutralite mineral is slowly dissolved to neutralize acid in the water (see page 12). 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 6). 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.



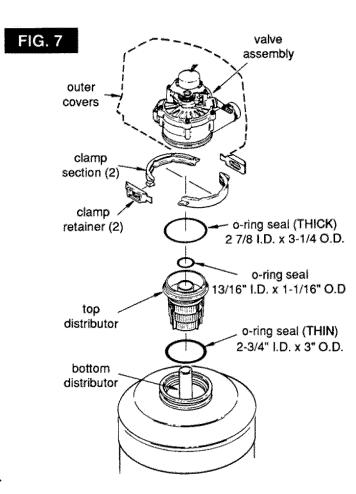
STEPS TO ADD MINERAL

- 1. Press the face plate BACKWASH NOW button 5 and hold for 3 seconds, until RCHG 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 FIG. 8, page 18.

CAUTION:

BESURE 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 2 clips (key #41, page 26) at the inlet and outlet fittings. Slide the adaptors, or bypass valve, from the filter valve.
- Referring to FIG. 7, remove the clamp retainers
 and clamp sections (2) that hold the valve to the tank. Lift upward to remove the valve.



3B. ADDING MINERAL . . . NEUTRALIZER FILTER

- **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.** Using 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 FIG. 6) 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 3 o-rings. Be sure to locate o-ring seals correctly . . . FIG. 7.
- 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 in place.
- Return the plumbing bypass valve(s) to SERV-ICE 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.

3C. REPLACING MINERAL . . . TASTE & ODOR FILTER

Average life of the activated carbon mineral bed is about 1 year (see page 12). 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 REPLACE MINERAL

- 1. Press the face plate BACKWASH NOW button 5 and hold for 3 seconds, until RCHG begins to flash in the display.
- When water begins to flow from the valve drain hose, place the bypass valve(s) in BYPASS position...see FIG. 8, page 18.

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 2 clips (key #41, page 26) at the inlet and outlet fittings. Slide the adaptors, or bypass valve, from the filter valve.
- Referring to FIG. 7, page 14, 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. FULL OF WATER AND CARBON, IT IS VERY HEAVY. 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 rag, etc.) to prevent accidental mineral spills into it.
- 9. Using a large neck funnel (FIG. 6), 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.

- Use water to flush the tank top opening. Then, replace the top distributor and 3 o-rings. Be sure to locate o-ring seals correctly . . . FIG. 7, page 14.
- 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 PLUMB-ING IS HELD FIRMLY IN PLACE, IN 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 SERV-ICE 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:

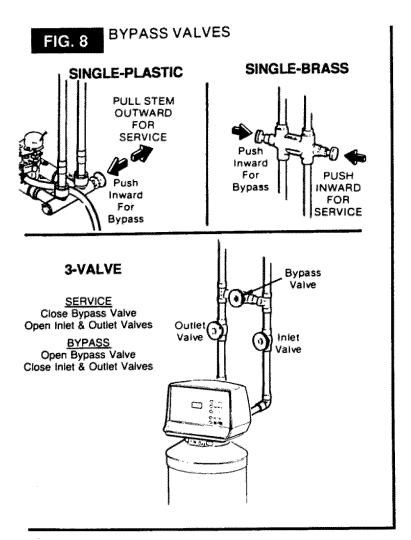
All new carbon mineral contains some smaller than normal particles called "fines." Backwashing the filter removes the fines. If, after the backwash in step 15 is over, fines are still in the filtered water, repeat step 1 for added backwashing.

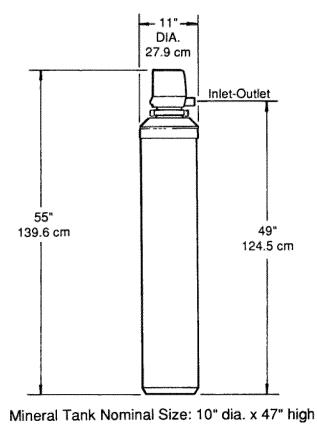
3D. BEFORE YOU CALL FOR SERVICE . . . HELPFUL HINTS CHECKLIST

| PROBLEM | CAUSE | CORRECTION |
|---|---|--|
| FILTER WILL NOT BACKWASH | Manual bypass valve(s) in bypass position | See FIG. 8, page 18. Move stem in a single bypass valve to SERVICE. In a 3-valve bypass, open the inlet and outlet valves, close the bypass valve. |
| | Transfomer unplugged at wall outlet, power cable disconnected, fuse blown/circuit breaker popped, or circuit switched off | Check for loss of power and correct. Reset the times and use the BACKWASH NOW feature see page 9. Also see "Electric Power Outlet For Your Filter, page 17 in the installation manual. |
| | Timer in the vacation (VAC) position | Press the VACATION button 5 once to return the filter to service see page 9. |
| | Timer not programmed for backwash | See page 8 to program a weekly sched- ule. |
| | An error code shows in the face plate display | See page 9. |
| | Backwash flow washer plugged | See key No. 38, page 26, 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. |
| PAUCEIS | Backwash needed more often to keep filter mineral clean | See page 8 to program more backwashes. |
| FILTERED WATER CONTAINS SEDI- MENTS, IRON, DIRT, SAND, ETC. | See all conditions under Filter Will Not Backwash, above. | |
| NEUTRALIZER FILTER ONLY: FILTER WATER IS ACID OR PARTLY ACID | Manual bypass valve(s) in bypass position | See above. |
| NOTE: | Filter low on neutralite mineral | Add new mineral see page 14. |
| Trace plumbing to be sure faucet(s) is on filtered water service. | | |
| TASTE & ODOR FILTER ONLY: FILTERED WATER HAS BAD TASTE | Manual bypass valve(s) in bypass position | See above. |
| AND/OR ODOR NOTE: | Activated carbon mineral bed is exhausted | Replace mineral see page 16. |
| Trace plumbing to be sure faucet(s) is on filtered water service. | | |

4A.

DIMENSIONS/SPECIFICATIONS





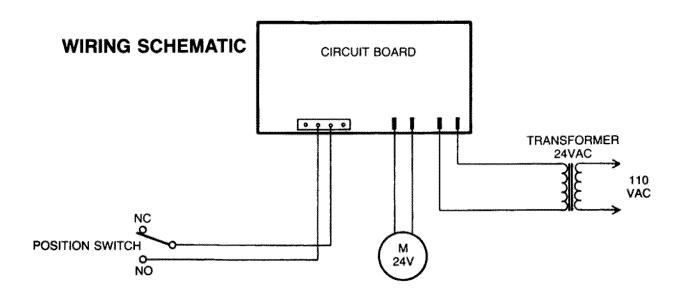
| | CLARIFIER 625.348233 | NEUTRALIZER 625.348240 | TASTE & ODOR 625.348250 |
|-------------------------------|-------------------------------------|---------------------------|----------------------------|
| TYPE OF FILTERING MINERAL | Aggregate | Neutralite | Activated Carbon |
| AMOUNT OF FILTERING MINERAL | 1.0 Cu. Ft. (.028 Cu M) | | Cu M) |
| WATER PRESS. LIMITS (MinMax.) | 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. (19MM) | | |
| 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

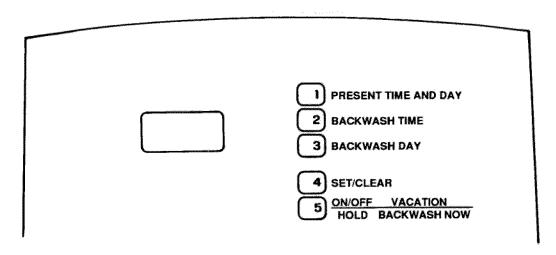
| 5A. | ELECTRICAL CONNECTIONS |
|-----|------------------------|

IMPORTANT:

KEEP THIS MANUAL WITH YOUR WATER FILTER. IF REPAIRS ARE NEEDED, THE SERVICE TECHNICIAN MUST HAVE THE INFORMATION ON THE FOLLOWING 6 PAGES.



FACE PLATE TIMER



5B.

BACKWASH CYCLE TIMES

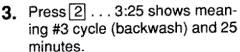
Factory set cycle times are: BACKWASH . . . 25 min., FAST RINSE . . . 5 min. Do the following to check for correct cycle times.

NOTE:

Removing from electrical power (varies from 6 to 15 hours) resets timer to factory programming.

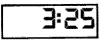
DISPLAY MUST SHOW TIME AND DAY

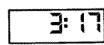
- 1. Press and hold 4 . . . entire display comes on.
- 2. Press 2 . . . 2:00 shows; meaning #2 cycle (not used) and 0 minutes.
- a. If 2:00 does show, go to step 3.
- b. If other than 2:00 (2:00 to 2:15, press 4 until 2:00 shows.



- a. If 3:25 does show, go to step 4.
- b. If other than 3:25 (3:00 to 3:30), press 4 until 3:25 shows.





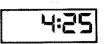


NOTE:

If the water supply has no iron and low sediment content, a shorter backwash time could be adequate, and will conserve water. On other water supplies, the filter may require a backwash longer than 25 minutes.

- 4. Press 2 . . . 4:05 shows; meaning #4 cycle (fast rinse) and 5 minutes.
- a. If 4:05 does show, go to step
- **b.** If other than 4:05 (400 to 4:30), press 4 until 4:05 shows.
- **5.** Press 2 . . . 18:88 shows.
- 6. Press 4 to return present time and day.







5C. DIAGNOSTICS

AUTOMATIC ELECTRONIC DIAGNOSTICS

The face plate has a self-diagnostic function for the electrical system (except input power). The face plate monitors the electronic components and circuits for correct operation. If a malfunc-

tion occurs, an error code appears in the face plate display.



The chart below shows the error codes that could appear, and the possible defects for each code.

While an error code appears in the display, all face plate buttons are inoperable except the SET/CLEAR button. SET/CLEAR remains operational so the service person can make the MANUAL ADVANCE DIAGNOSTICS to further isolate the defect.

POSSIBLE DEFECT

| CODE | MOST LIKELY → LESS LIKELY | |
|----------|--|--|
| E - 1 | motor inop. / wiring harness or connection to switch / switch / face plate | |
| E-2, E-3 | face plate | |
| E - 4 | face plate / position switch | |

PROCEDURE FOR REMOVING ERROR CODE FROM FACE PLATE: 1. Unplug transformer 2. Correct defect 3. Plug-in transformer 4. Wait for 6 minutes. The error code will return if the defect was not corrected.

MANUAL ADVANCE DIAGNOSTIC

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

Remove top cover to observe valve rotation. DISPLAY MUST SHOW TIME AND DAY

1. Press and hold 4 for 3 seconds until 18:88 displays.

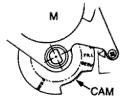


2. Press 3 to display position (P) switch open or closed indicator.

If valve is in service, backwash or fast rinse (see markings on cam under motor), display will show . . . (--), meaning the position switch is open.



While the valve is rotating from one cycle to another, the display shows (-P), meaning the position switch is closed.



NOTE:

While in manual advance, the time display automatically returns to the present time of day if a button is not pressed within 4 minutes.

- 3. To advance valve, press 5 each time you want to move into next cycle. (Pressing 5 while valve is rotating has no affect.)
 - Press 5 to move filter into backwash. Look for a fast flow of water from drain boses.

| <u> </u> | *** | P | |
|----------|------|---|---|
| | **** | - | J |

A slow flow indicates an obstructed top distributor, backwash flow plug, drain hose, or iron fouled mineral bed.

— Press 5 to move filter into fast rinse. Again look for fast drain flow.

| | P | |
|------|---|--|
| | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |

— To return filter to service, press 5.



5. Press 4 to return present time and day.

4. Press 3 to display 18:88.

S > (SERVICE)

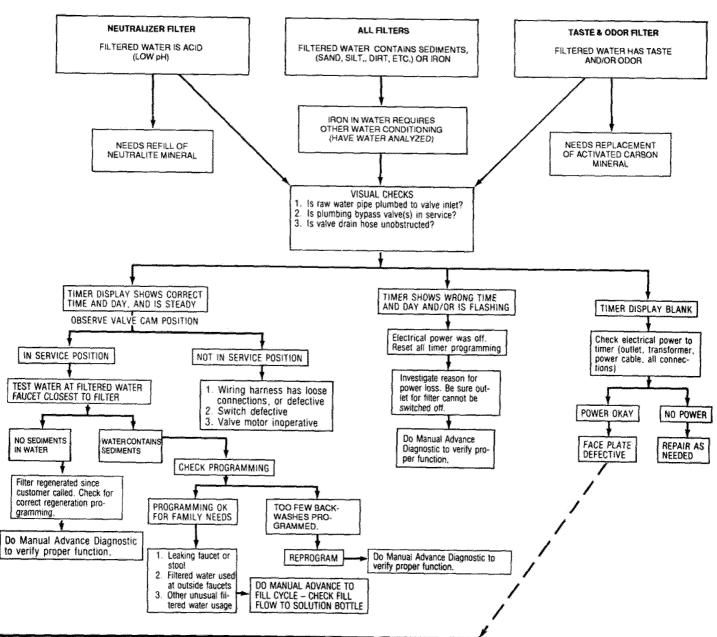
Valve Position

Indicator

Valve

Cam

5D. "QUICK-CHECK" TROUBLESHOOTING



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

If after installing and programming the replacement face plate, the valve <u>is not</u> in service position, do the following to assure correct cycle orientation, or timing, between the face plate and valve.

Use the MANUAL ADVANCE procedures, page 21. With the BACKWASH NOW button, advance through the recharge cycles until the valve stops in service position, and RECHARGE no longer flashes in the timer.



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

5E.

ROTARY VALVE SERVICE

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

...3 VALVE BYPASS: Close the inlet valve 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 3 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:

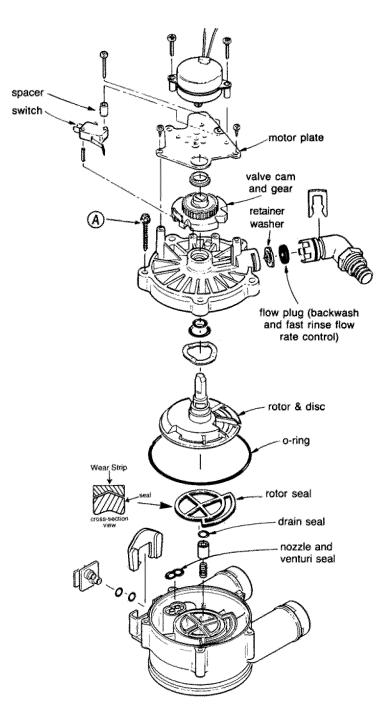
If replacement is needed, be sure to use the current replacement part.

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, rounded 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 2 o-rings and the wave washer onto the rotor and disc. Then 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 TIGHTENINGTHESCREWS, INSTALLTHE VALVE CAM AND GEAR, THEN TURN THE ROTOR (CLOCKWISE ONLY) TO SERVICE POSITION.

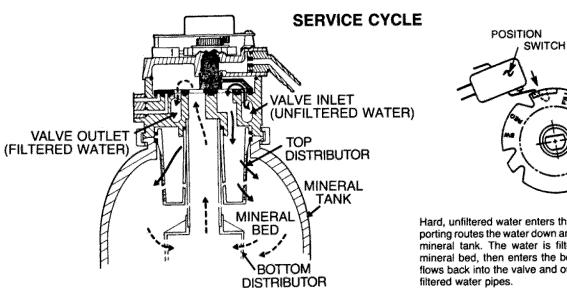


Tighten the screws using a criss-cross pattern. If a torque wrench is available, torque to 30-40 inch pounds.

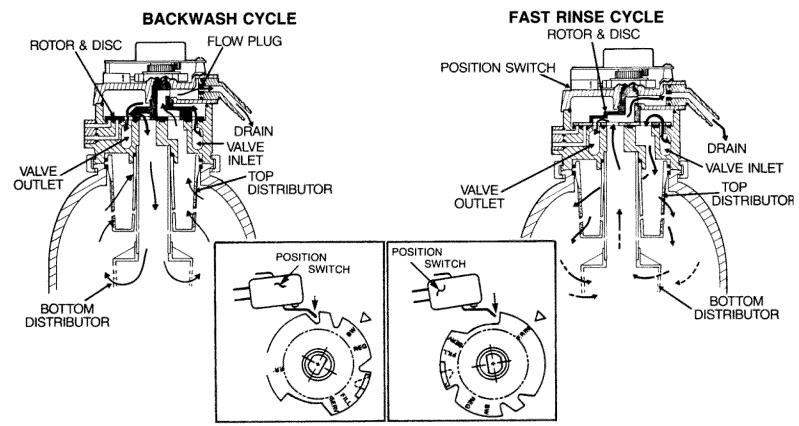
Lubricate the gear on the motor, and the valve cam gear with Molykote grease, or other high quality gear lubricant.

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

5F. 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.

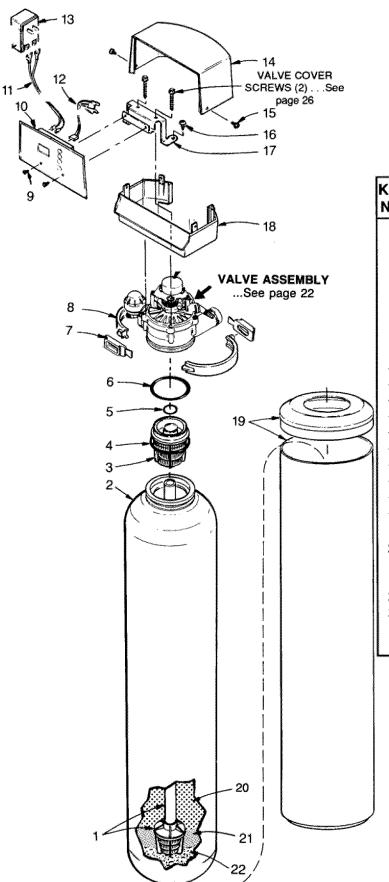


Timer/switch action allows the motor to turn the rotor & disc to place the valve in BACKWASH. Water is routed down and out the bottom distributor, up through the bed, and out the top distributor to the drain. The fast flow (controlled by a flow plug in the drain fitting) flushes dirt, sediments, and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



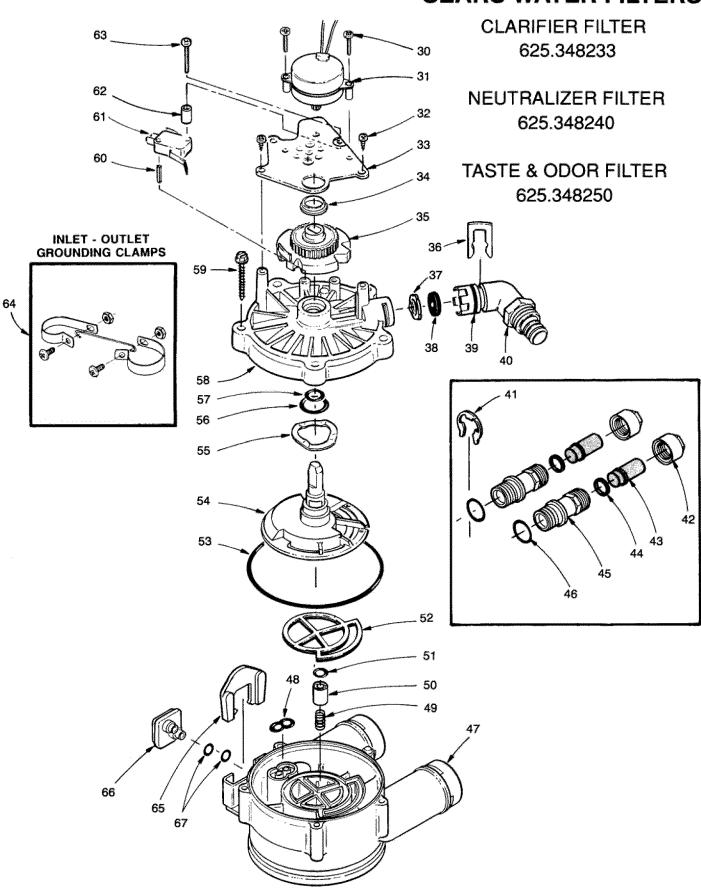
SEARS WATER FILTERS

CLARIFIER FILTER 625.348233 NEUTRALIZER FILTER 625.348240 TASTE & ODOR FILTER 625.348250

| - | KEY | PART | |
|---|-----|---------|--------------------------------|
| | NO. | NUMBER | DESCRIPTION |
| | 1 | 7105047 | Bottom Distributor & Standpipe |
| | 2 | 7092202 | Mineral Tank |
| | 3 | 7088855 | Top Distributor |
| | 4 | 7096183 | O-Ring, 2-3/4 x 3 |
| | 5 | 0900215 | O-Ring, 13/16 x 1-1/16 |
| | 6 | 7079092 | O-Ring, 2-7/8 x 3-1/4 |
| | 7 | 7088033 | Clamp Retainer (2 req.) |
| | 8 | 7088041 | Clamp Section (2 req.) |
| | 9 | 0900300 | Screw, #4-40 x 1/4 (2 req.) |
| | 10 | 7146093 | Face Plate - Timer |
| | 11 | 7084330 | Power Cord |
| \ | 12 | | Wire Harness |
| 1 | 13 | 7095373 | Transformer, 24V-10VA |
| | 14 | 7144449 | Top Cover |
| 4 | 15 | 7103972 | Screw, #8 x 7/16 (4 req.) |
| ı | 16 | 0900291 | Screw, #8-32 x 3/8 (2 req.) |
| | 17 | 7141530 | Cover Bracket |
| | 18 | 7144431 | Bottom Cover |
| | 19 | 7092210 | Shroud |
| | • | 7026196 | Base (styrofoam) |
| 1 | 20 | 0505647 | Filter Agg Model 625.348233 |
| | : | 3423599 | Neutralite - Model 625.348240 |
| - | | 0505649 | Act. Carbon - Model 625.348250 |
| | 21 | 0501783 | Filter Sand, 10 lbs. |
| *************************************** | 22 | 7124415 | Gravel, 17 lbs. |
| *************************************** | • | 7144481 | Owners Manual |
| *************************************** | • | 7146611 | Installation Manual |

not illustrated

SEARS WATER FILTERS



SEARS WATER FILTERS

CLARIFIER FILTER 625.348233

NEUTRALIZER FILTER 625.348240

TASTE & ODOR FILTER 625.348250

PARTS LIST

| KEY | 1 1 | DECORIDEION |
|-----|---------|----------------------------------|
| NO. | NUMBER | DESCRIPTION |
| 30 | 7131755 | Screw, #6-20 x 7/8 (2 req.) |
| 31 | 7133008 | Motor |
| 32 | 0900857 | Screw, #6-20 x 3/8 (2 req.) |
| 33 | 7117808 | Motor Plate |
| | 0503288 | Bearing |
| 35 | 7113927 | Cam and Gear |
| 36 | 7142942 | Clip (Drain) |
| 37 | 7030585 | Washer, Retainer |
| 38 | 0509537 | Flow Plug |
| 39 | 0900041 | O-Ring, 5/8 x 13/16 |
| 40 | 7141239 | Drain Hose Adaptor |
| 41 | 7116713 | Clip (2 req.) ● |
| 42 | 0507369 | Installation Nut (2 req.) 2 |
| 43 | 0507615 | Installation Tube (2 req.) 2 |
| 44 | 0900570 | Washer (2 req.) 2 |
| 45 | 2207800 | Installation Adaptor (2 req.) ● |
| 46 | 0900535 | O-Ring, 15/16 x 1-3/16 (2 req.)● |
| 47 | 7082053 | Valve Body |
| 48 | 7081764 | Seal |
| 49 | 1219600 | Spring |
| 50 | 7092642 | Plug (Drain Seal) |
| 51 | 7092634 | O-Ring, 3/8 x 9/16 |
| 52 | 7134224 | Rotor Seal |
| 53 | 9001006 | O-Ring, 3-3/8 x 3-5/8 |
| 54 | 7103964 | Rotor & Disc |

|) LIQ I | | |
|------------|----------------|----------------------------------|
| KEY NO. | PART NUMBER | DESCRIPTION |
| | HOMBEN | DESCRIPTION |
| 55 | 7082087 | Wave Washer |
| 56 | 7064372 | O-Ring, 3/4 x 15/16 |
| 57 | 7064380 | O-Ring, 7/16 x 5/8 |
| 58 | 7085263 | Valve Cover |
| 59 | 7074123 | Screw, #10-14 x 2 (5 req.) |
| 60 | 7077472 | Expansion Pin |
| 61 | 7030713 | Switch |
| 62 | 7117816 | Spacer |
| 63 | 7070412 | Screw, #4-24 x 1-1/8 |
| 64 | 7112997 | Ground Clamp Kit ● |
| 65 | 7081201 | Clip (Nozzle & Venturi) |
| 66 | 7100940 | Plug |
| 67 | 0900064 | O-Ring, 1/4 x 3/8 (2 req.) |
| • | 7111941 | Small Parts Bag (Includes all |
| | | items marked with ●) |
| • | 7092163 | Seal Kit (Incl. Key Nos. 48, 51, |
| | | 52, 53, 56 and 57) |

♦ Not illustrated

² Parts not included with filter

⁻ available from Sears Stock No. 42-3441

SEARS

Kenmore Water Filters

OWNERS MANUAL

SERVICE

Your Sears Water Filter has added value when you consider that Sears has service units nationwide staffed with Sears trained technicians - professional technicians specifically trained on Sears products, having the parts, tools and equipment to ensure that we meet our pledge to you - "We Service What We Sell."

MODEL NOS. 625.348233 625.348240 625.348250 The model number of your water filter is found on the rating decal. This decal is on the backside of the filter top cover.

HOW TO ORDER REPAIR PARTS

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOL-LOWING INFORMATION:

SHOULD A NEED EVER EXIST FOR REPAIR SERVICE OR PARTS: — PART NUMBER

- PART DESCRIPTION

- MODEL NUMBER

- NAME OF ITEM

FOR REPAIR SERVICE, CALL THIS TOLL FREE NUMBER: 1-800-4-REPAIR (1-800-473-7247) When Sears arranges the installation, you can be sure the job is done right. We will arrange for professional workmanship... and we'll take care of the entire project. What's more, during installation you get insured protection... against property damage and also against accidents to workmen. All you have to do is to talk to your Sears salesperson or call your nearest Sears store today for detailed information.

FOR REPLACEMENT PARTS INFORMATION AND ORDERING, CALL THIS TOLL FREE NUMBER:

> 1-800-FON-PART (1-800-366-7278)

> > Sears, Roebuck and Co., Chicago, III. 60684 U.S.A.