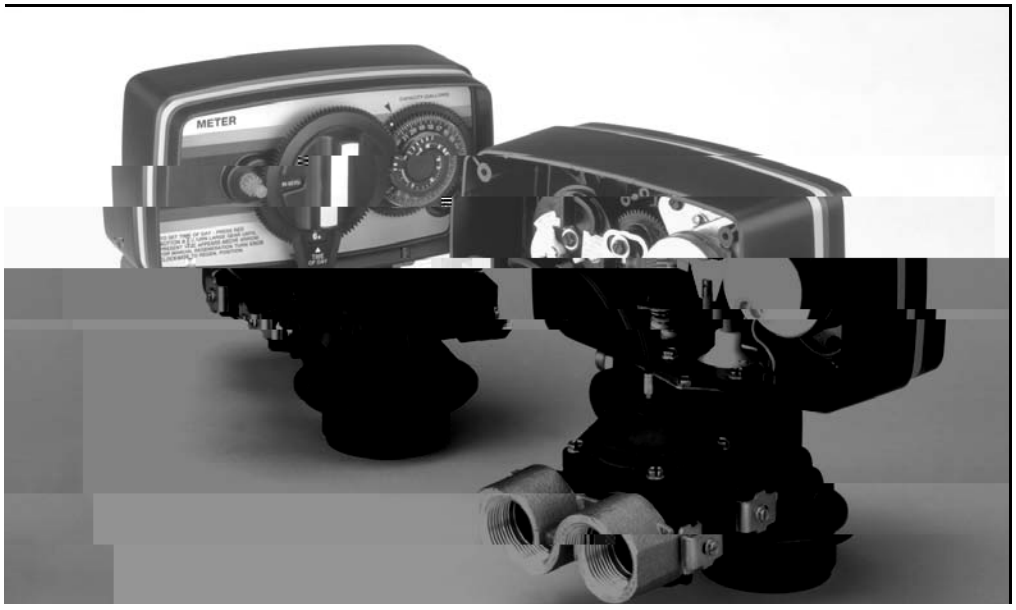
METER

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Job Number _____

Model Number _____

Water Test _____

Capacity of Unit _____ Max. _____ Per Regeneration

Mineral Tank Size: Diameter _____ Height _____

Brine Tank Size and Salt Setting Per Regeneration: _____

**C**

Type of Timer: ___ Std. ___ "L" ___ 7-day ___ 12-day ___ Meter, Std. ___ Meter, Ext.

Day/Time of Regeneration _____

Drain Line F o Con.8(on3-24(t)15JT*0( )8.24.1(_____)24(_____ M)-15.3(a__)-24(_____)-24(_____ M)-15.3( gpm005

## [illegible]

**[illegible]**

A minimum of 25 psi (1.7 bar) of water pressure is required for regeneration valve to operate effectively.

**E[illegible]**

An uninterrupted alternating current (A/C) supply is required. Please make sure voltage supply is compatible with unit before installation.

**E[illegible]**

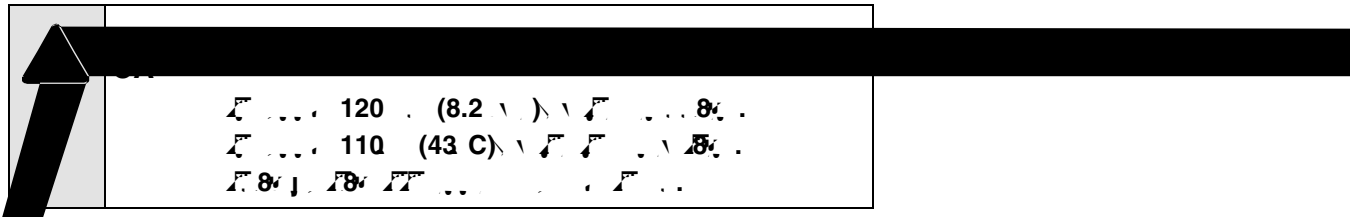
Condition of existing plumbing should be free from lime and iron buildup. Replace piping that has heavy lime and/or iron build-up. If piping is clogged with iron, install a separate iron filter unit ahead of the water softener.

**L[illegible]**

Locate the softener close to a clean working drain and connect according to local plumbing codes.

**B[illegible]**

Always provide for the installation of a bypass valve if unit is not equipped with one.



***E:*** Install the water softener with the inlet, outlet and drain connections made according to manufacturer's recommendations and to meet applicable plumbing codes.

1. Manually index the softener control into the position and let water flow into the resin tank. When the water flow stops, open a softened water tap until all air is released from the lines. Then close tap.

   ***E:*** Manually dial the various regeneration positions by turning the knob on the front of the control until the indicator shows that the softener is in the desired position.

2. Manually index the control to the **B** position and allow water to flow at the drain for 3 or 4 minutes.

3. ep.

***E:*** Install the water softener with the inlet, outlet and drain connections made according to manufacturer's recommendations and to meet applicable plumbing codes.

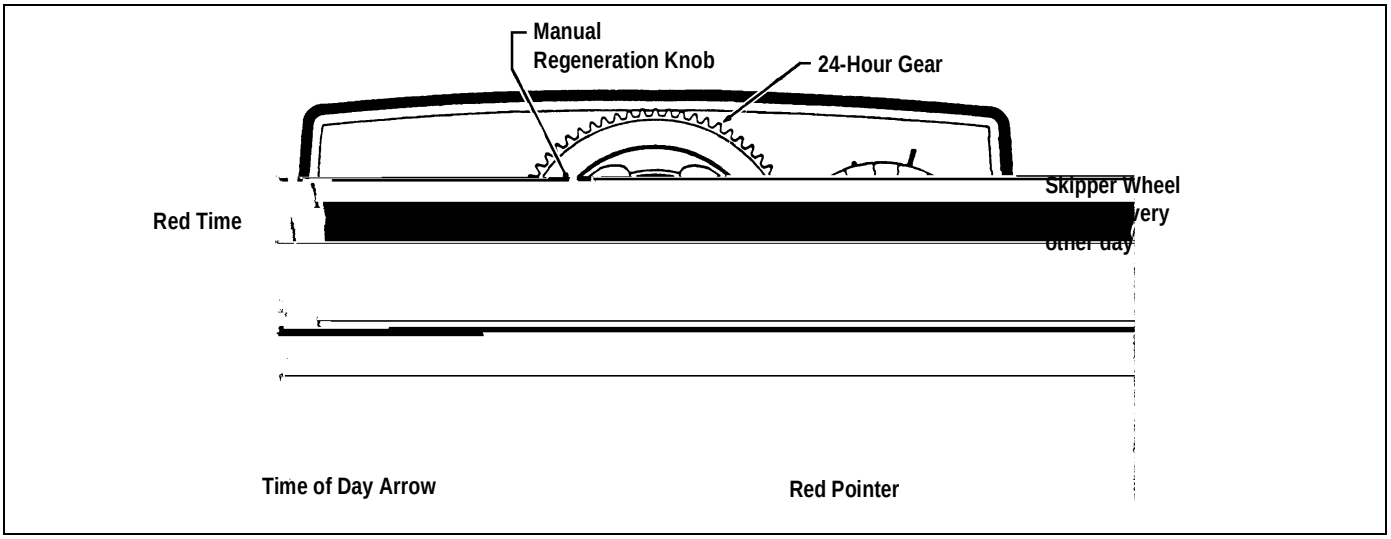



Figure 2: Model ***5600*** Backwash Filter Control

**B**

1. Open a treated water tap down stream of the filter.
2. Manually index the filter to the position and allow the mineral tank to fill by slowly opening the main water supply valve. Any bypass should be in the position.

   ***E:*** The water flowing from the downstream tap is cloudy and/or contains media fines as well as air. Allow the water to run until it appears clean and free of air.
3. When a steady clean flow appears at the tap, close the tap and the main water supply valve and allow the filter media bed to settle for 15–20 minutes.
4. Manually index the filter to the **B** position.
5. To prevent a sudden surge of water and air, partially open the main water supply valve so that the flow at the drain of the filter is approximately 1 gpm (3.7 Lpm). The water at the drain is cloudy again and/or contains media fines as well as air. Allow water to flow at the drain until it appears clean and free of air.
6. Continue to open the water supply valve until it is completely open. Allow water to flow at the drain until all media fines are washed out of the filter.
7. Manually index the filter to the position, and again open the downstream tap. Check to be sure that the water flows clear. If necessary, allow water to flow until all media fines are gone. If the tap is equipped with an aerator check that is not plugged with media fines and pipe scale.
8. Plug in the electrical cord and look in the sight hole on the back of the timer motor to ensure that it is running. Set the days backwashing is to occur by sliding tabs on the skipper wheel outward to expose trip fingers. Each tab is one day. Finger at red pointer is tonight. Moving clockwise from red pointer, extend or retract fingers to obtain the desired backwash schedule.
9. Set time of day by pushing red button and spin the 24-hour gear until the present time of day is visible above the time of day arrow.

## 5600 B & 8 (C .)

**C**

1. position. *See Figure 4, page 10*.
2. position.
   - Same as *Figure 4, page 10* with standard piston (white end plug) or filter piston (black end plug).
   - Eliminated with low water piston (gray end plug).
3. **B** position.
   - Same as *Figure 6, page 11* with standard piston.
   - 15 minutes with filter piston.
   - 7 minutes with low water piston.
4. **B** position.
   - Eliminated, resulting in a 50 minute pause, no water flows during this time.
5. position.
   - Eliminated, resulting in a 50 minute pause, no water flows during this time.
6. **B** position.
   - Same as *Figure 9, page 12* with standard piston.
   - 15 minutes with filter piston.
   - 7 minutes with low water piston.
7. position.
   - Same as *Figure 10, page 13* with standard or filter piston.
   - Eliminate with low water piston.
8. **B** position.

***E:*** Install the water softener with the inlet, outlet and drain connections made according to manufacturer's recommendations and to meet applicable plumbing codes.

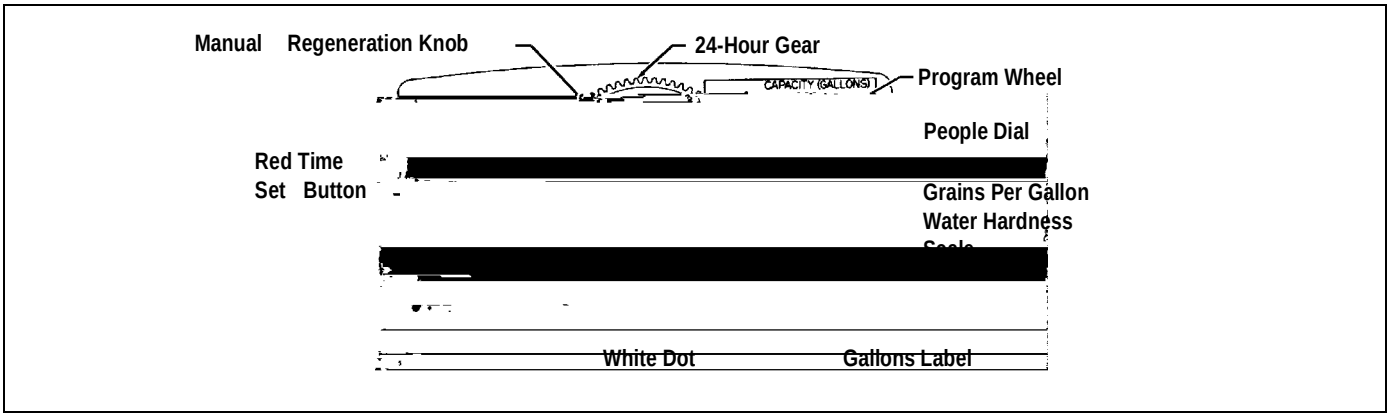



Figure 3: Model ***5600 E***

1. Manually index the softener control to the position and let water flow into the resin tank. When the water flow stops, open a softened water tap until all air is released from the lines. Then close tap.

   ***E:*** The various regeneration positions may be dialed manually by turning the knob on the front of the control until the indicator shows that the softener is in the desired position.

2. Set water usage program wheel using any one of the following procedures:

   — Typical Residential Application

   To program, just set the time, set the hardness and it automatically monitors system needs and regenerates only when necessary. To set time of day press red time set button and turn 24-hour gear until present time of day is at "time of day." Set program wheel by lifting the "people" dial and rotating it so that the number of people in the household is aligned with the household grains per gallon water hardness. Release the dial and check for firm engagement at setting. This method provides reserve capacity based on 75 gallons per person.

   — Optional Programming Procedures

   Calculate the gallon capacity of the system, subtract the necessary reserve requirement and set the gallons available at the small white dot on program wheel gear. Note, drawing shows 850 gallon setting. The capacity (gallons) arrow denotes remaining gallons exclusive of fixed reserve.

3. Rotate program wheel counterclockwise until it stops at position.
4. Manually index the control to the **B** position and allow water to flow at the drain for 3 or 4 minutes.
5. Remove back cover plate.
6. Make sure than the salt dosage is set as recommended by the manufacturer. Manually index the control to the **B** position and allow the brine tank to fill to the top of the air check.
7. Manually index the control to the **B** position and allow the control to draw water from the brine tank until it stops.
8. Plug in the electrical cord and look in the sight hole in the back of the monitor to see that it is running.
9. Manually advance the control to the beginning of the **B** position and allow the control to return to the position automatically.
10. Fill the brine tank with salt.
11. Replace back cover on the control. Be sure cable is not pinched between cover and housing.
12. Make sure that any bypass valving is left in the normal position.

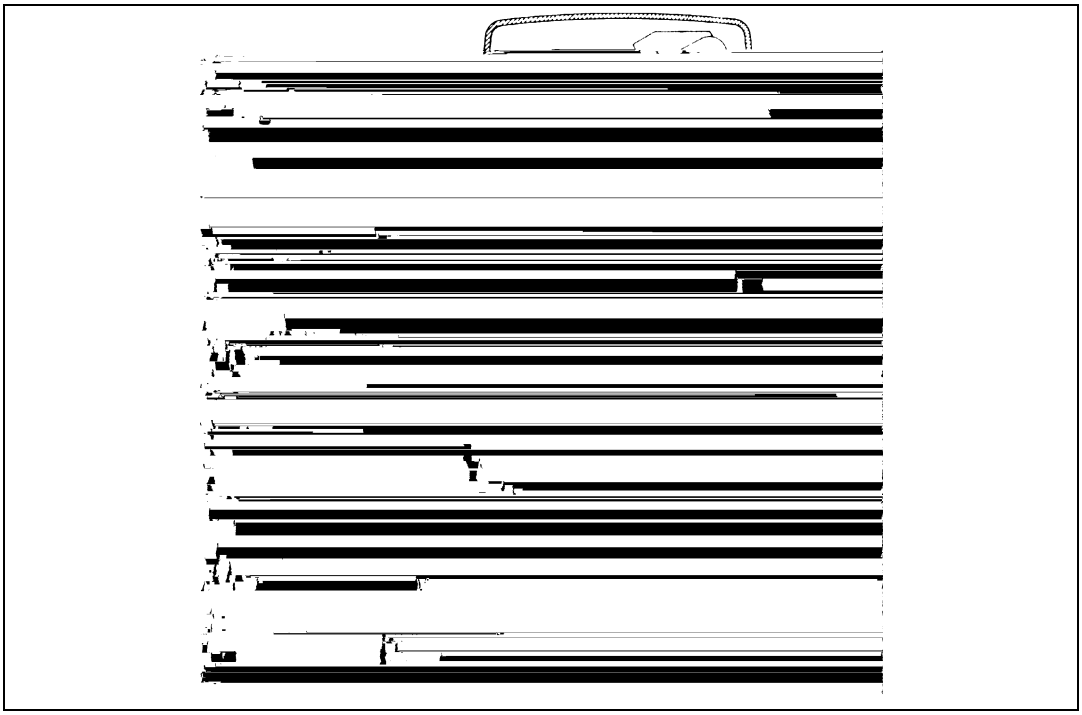


Figure 4: Service Position

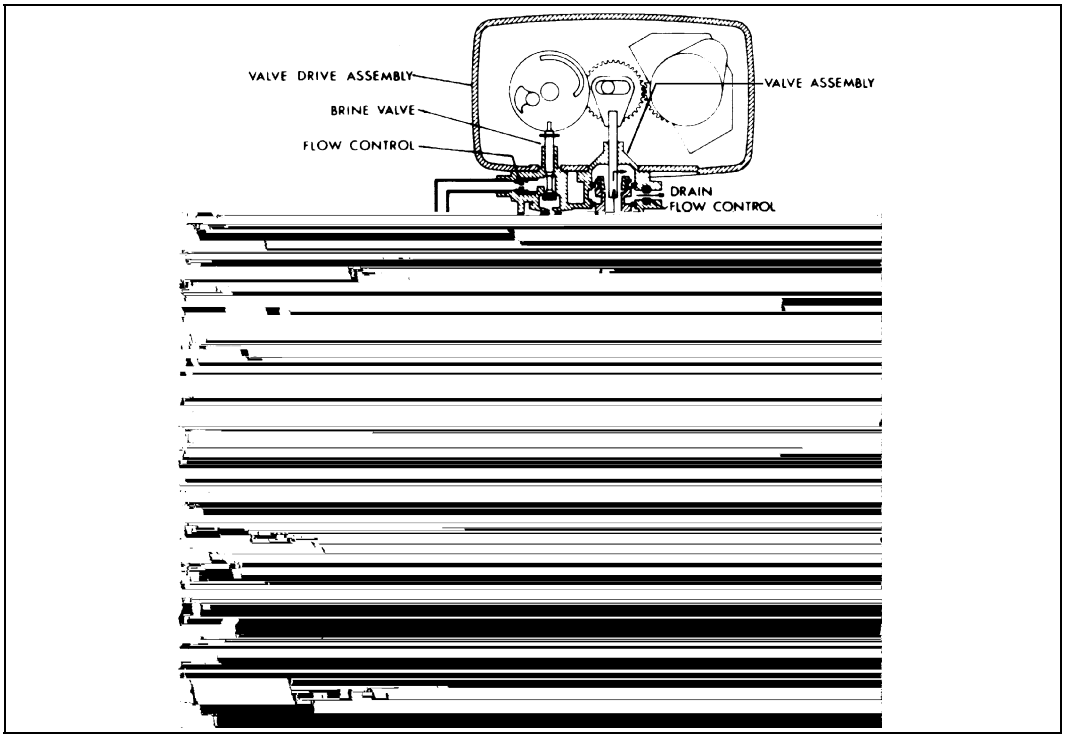



Figure 5: Preliminary Rinse Position

**B**

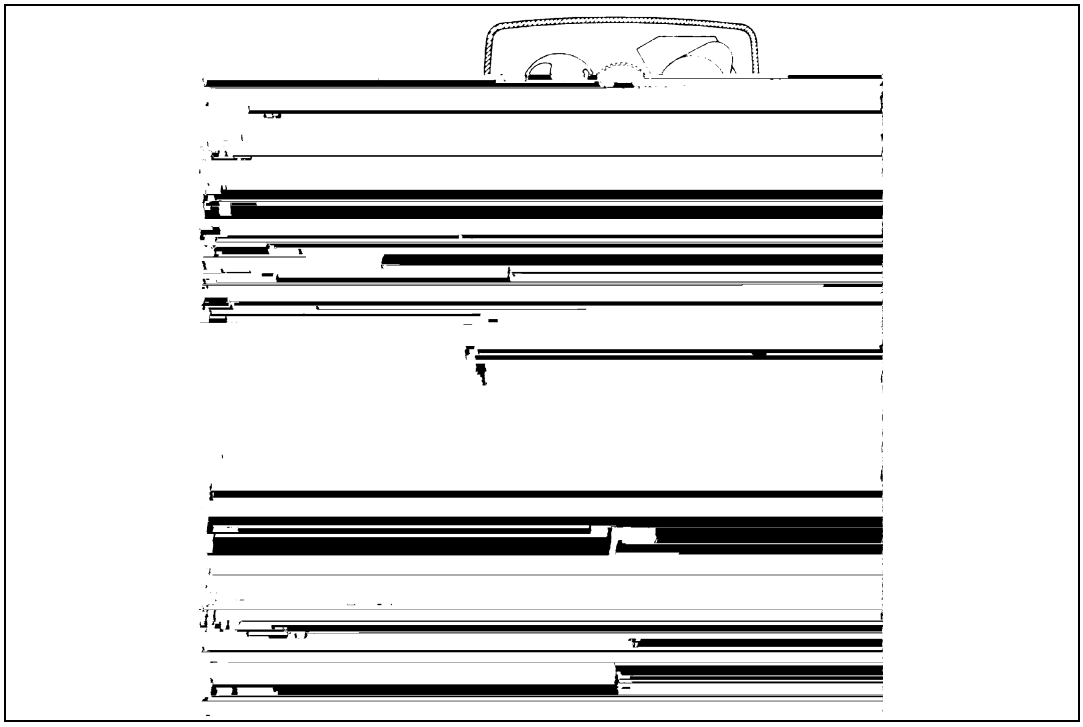


Figure 6: Backwash Position

**B**

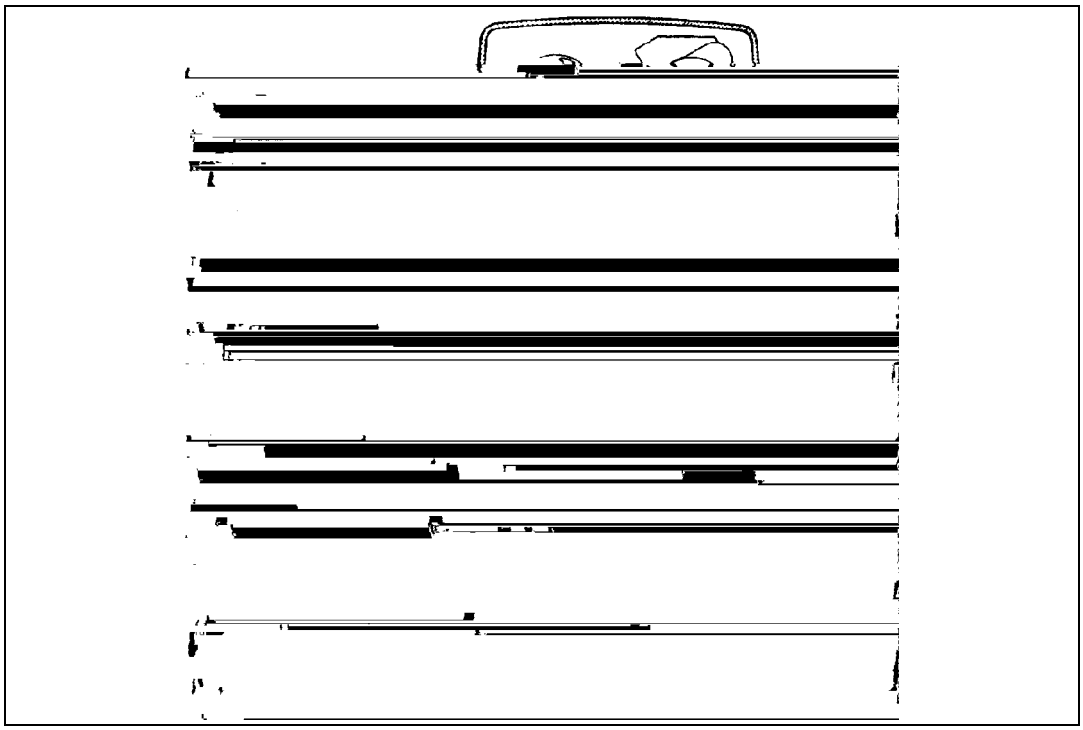


Figure 7: Brine Position

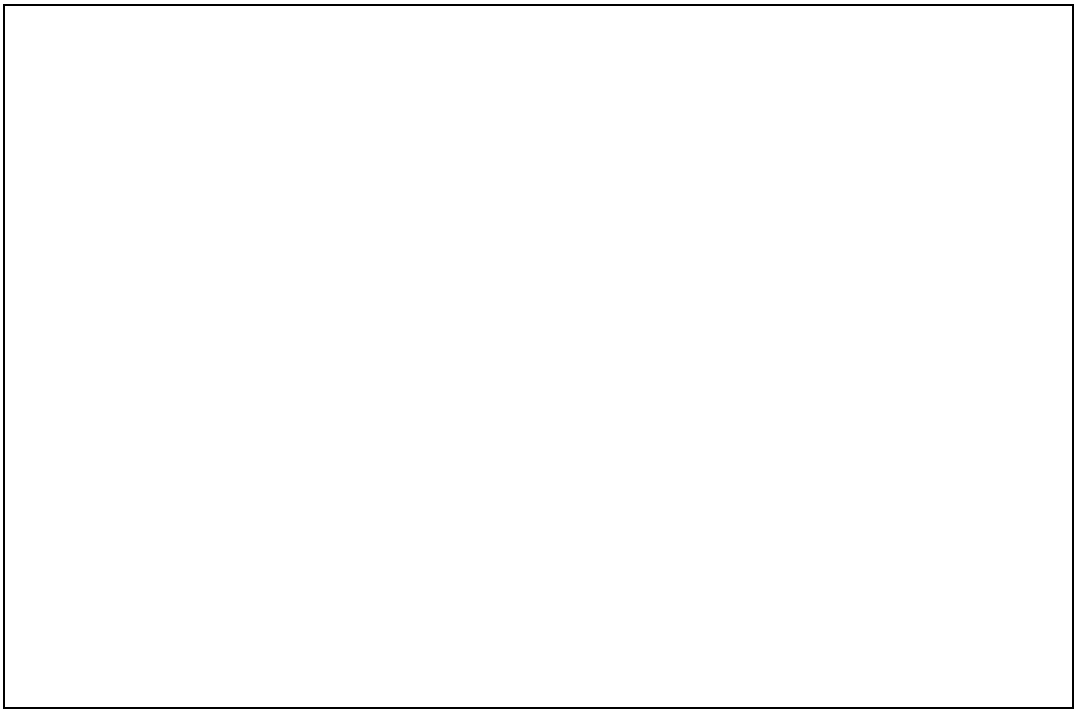


Figure 8: Slow Rinse Position

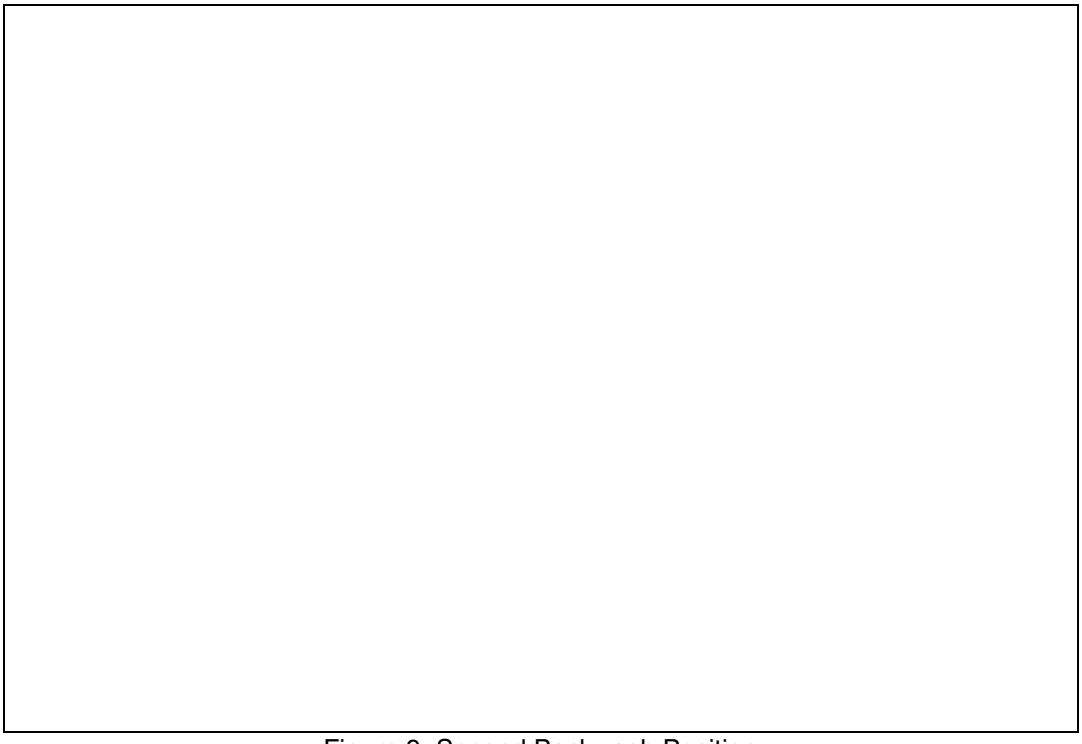


Figure 9: Second Backwash Position

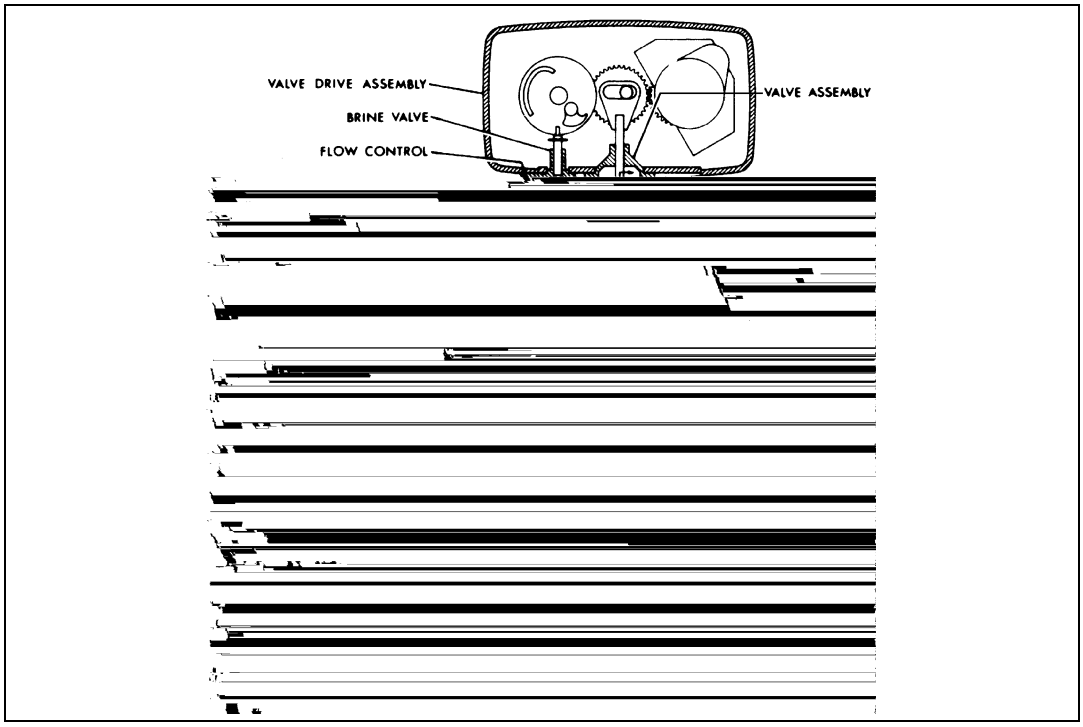



Figure 10: Settling Rinse Position

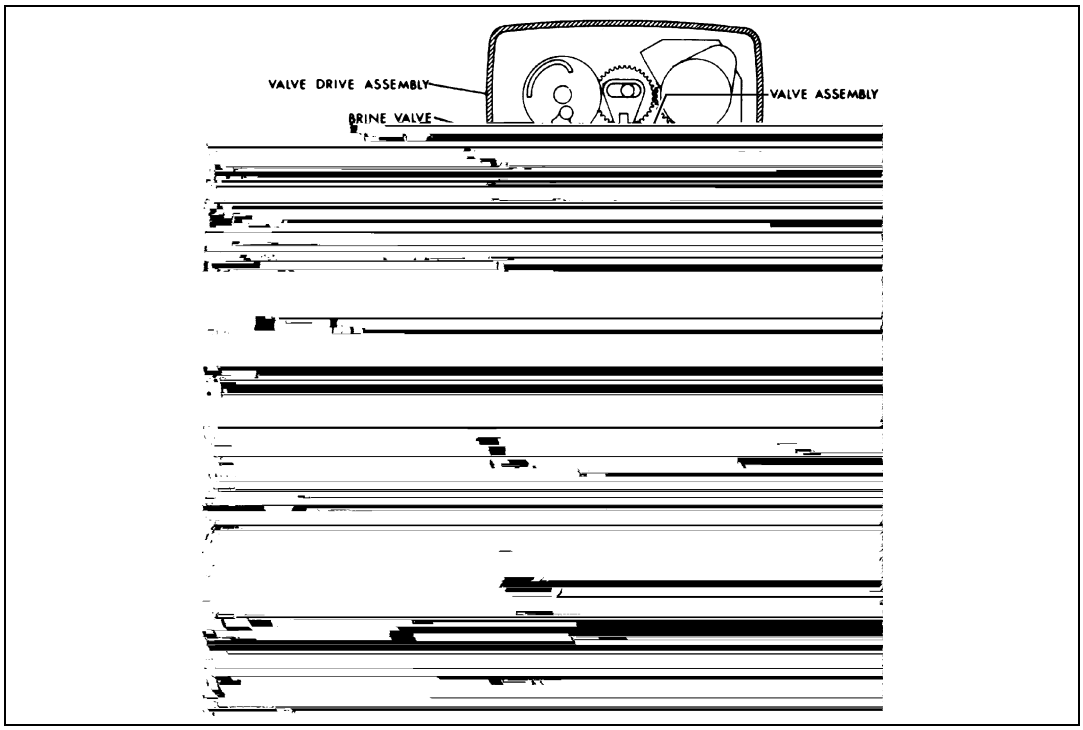



Figure 11: Brine Tank Fill Position

Figure 12: Model

| | | | |
|---|---|---|---|
| 1 | 1 | 14448-001 | Drive Housing, with Pin Drilled for Cover |
| 1A | 1 | 15494-01 | “L” Housing, with Pin |
| | 1 | 15494-03 | “L” Housing, with Pin Drilled for Designer |
| 2 | 1 | 13175 | Motor Mounting Plate |
| 3 | 1 | 18743 | Motor, 120V, 60 Hz |
| | 1 | 19659 | Motor, 24V, 60 Hz |
| 4 | (2-3) | 11384 | Screw, Motor Mtg. and Ground Wire |
| 5 | (3-5) | 13296 | Screw, Component Mounting |
| 6 | 1 | 13017 | Idler Gear |
| 7 | 1 | 13018 | Idler Pinion |
| 8 | 1 | 13312 | Spring, Idler |
| 9 | 1 | 13164 | Drive Gear |
| 11 | 1 | 13170 | Main Gear and Shaft |
| 12 | 1 | 19205 | 24-hour Gear Assembly, Silver |
| | 1 | 19205-01 | 24-hour Gear Assembly, Tan |
| 13 | 1 | 13011 | Cycle Actuator Gear |
| 14 | 1 | 14177 | Knob, Manual Regeneration |
| 15 | 4 | 13300 | Ball, 1/4″ Dia. |
| 16 | 2 | 13311 | Spring, Detent, Skipper Wheel |
| 19 | 1 | 14381 | Skipper Wheel Assembly, 12-day |
| | 1 | 14860 | Skipper Wheel Assembly, 7-day |
| 20 | 1 | 13864 | Skipper Wheel Ring |
| 21 | 2 | 19080 | Spring, Compression, 6700 |
| 22 | 1 | 13014 | Regeneration Pointer |
| 23 | 1 | 11842 | Electrical Cord, Standard |
| 24 | 2 | 12681 | Wire Connector (not shown) |
| 25 | 1 | 13547 | Strain Relief |
| 26 | 1 | 13229 | Back Cover |
| 27 | 1 | 13309 | Front Label, Brown on Beige |
| | 1 | 13437 | Front Label, Blue/Silver on Black |
| 28 | 1 | 13310 | Rear Label, Softener |
| | 1 | 18520 | Rear Label, Filter |
| 29 | 1 | 13348 | Tape Stripe, Brown on Beige |
| | 1 | 13436 | Tape Stripe, Blue on Silver |
| 30s | 1 | 60514 | Brine Cam Assembly, 3-18 |
| | 1 | 60514-01 | Brine Cam Assembly, 6-36 |
| | 1 | 60514-02 | Brine Cam Assembly,  Minutes |
| 34 | 2 | 12473 | Screw-drive Mounting |
| 35s | 1 | 12037 | Washer |
| 37 | 1 | 15151 | Screw, Knob |
| 38 | 1 | 14176 | Valve Position Dial, Standard |
| | 1 | 14278 | Valve Position Dial, Low Water |
| | 1 | 15478 | Valve Position Dial, Chemical Filter |
| | 1 | 16715 | Valve Position Dial, Filter |
| 39 | 1 | 14175 | Knob Label, Beige |
| | 1 | 14207 | Knob Label, Silver |
| 40s | 1 | 40214 | Screw, Brine Cam |

s Not used when a filter valve

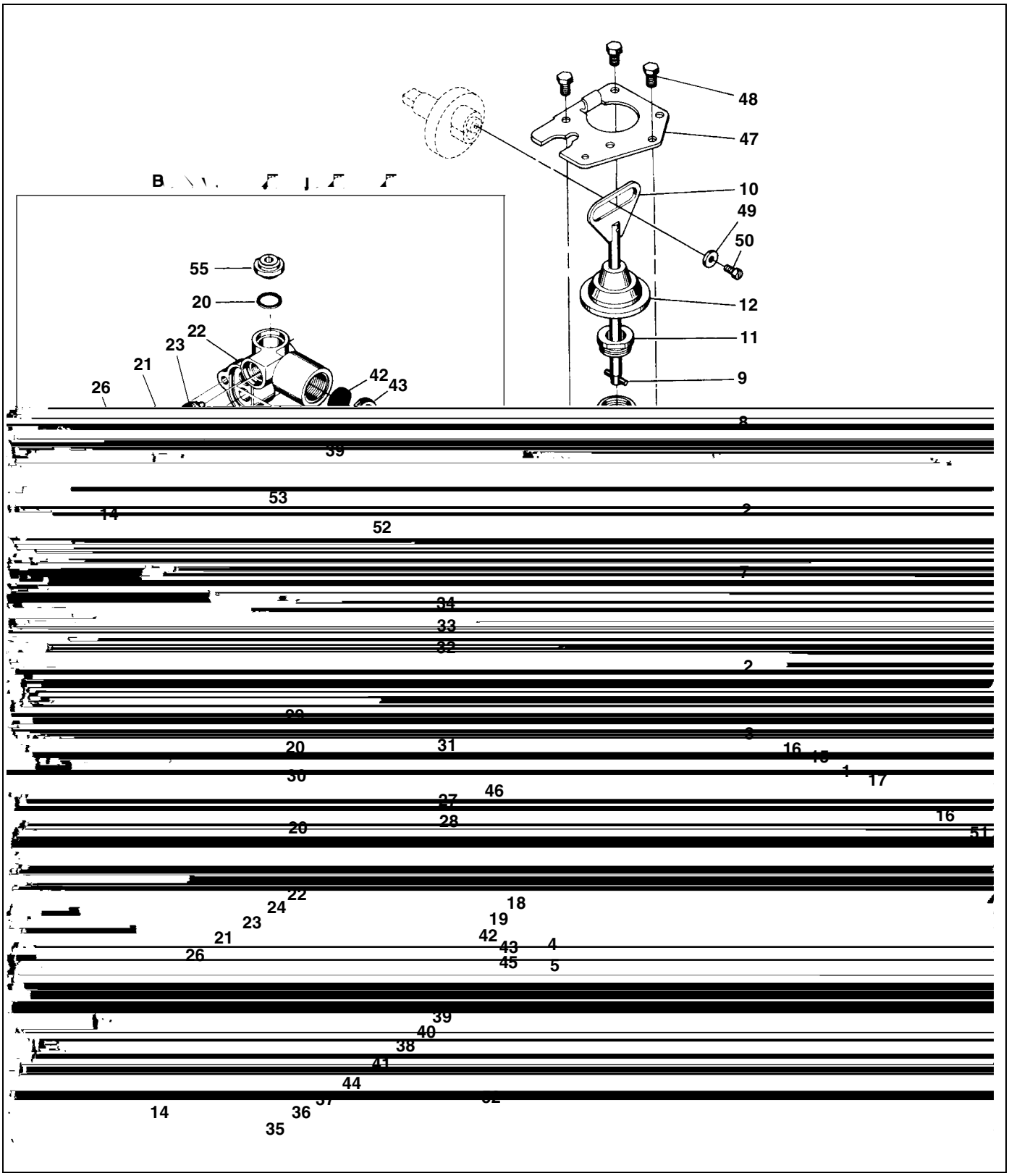



Figure 13: Model ***5600*** and ***5600 E*** Control Valve Drive Assembly

| Ref. | No. Req'd | Part Number | Description |
|---|---|---|---|
| 1 | 2-4 | 13255 | Adapter Clip (Clock or Meter) |
| 2 | 5 | 13242 | Seal |
| | 5 | 17772 | Silicone Seal |
| 3 | 1 | 61400-12 | Valve Body Assembly, 1″ Dist. |
| | 1 | 61400-11 | Valve Body Assembly, 3/4″ Dist. |
| 4 | 1 | 13304 | O-ring, Distributor Tube, 1″ |
| | 1 | 10244 | O-ring, Distributor Tube, 13/16″ |
| 5 | 1 | 12281 | O-ring, 3 |

7610903.838o61095 T4(61)-9.33(t)11.0(b) -19.4(6)8.6(4)s25.1(i)-11.gt2

* not used with meter controls

S used in backwash filter

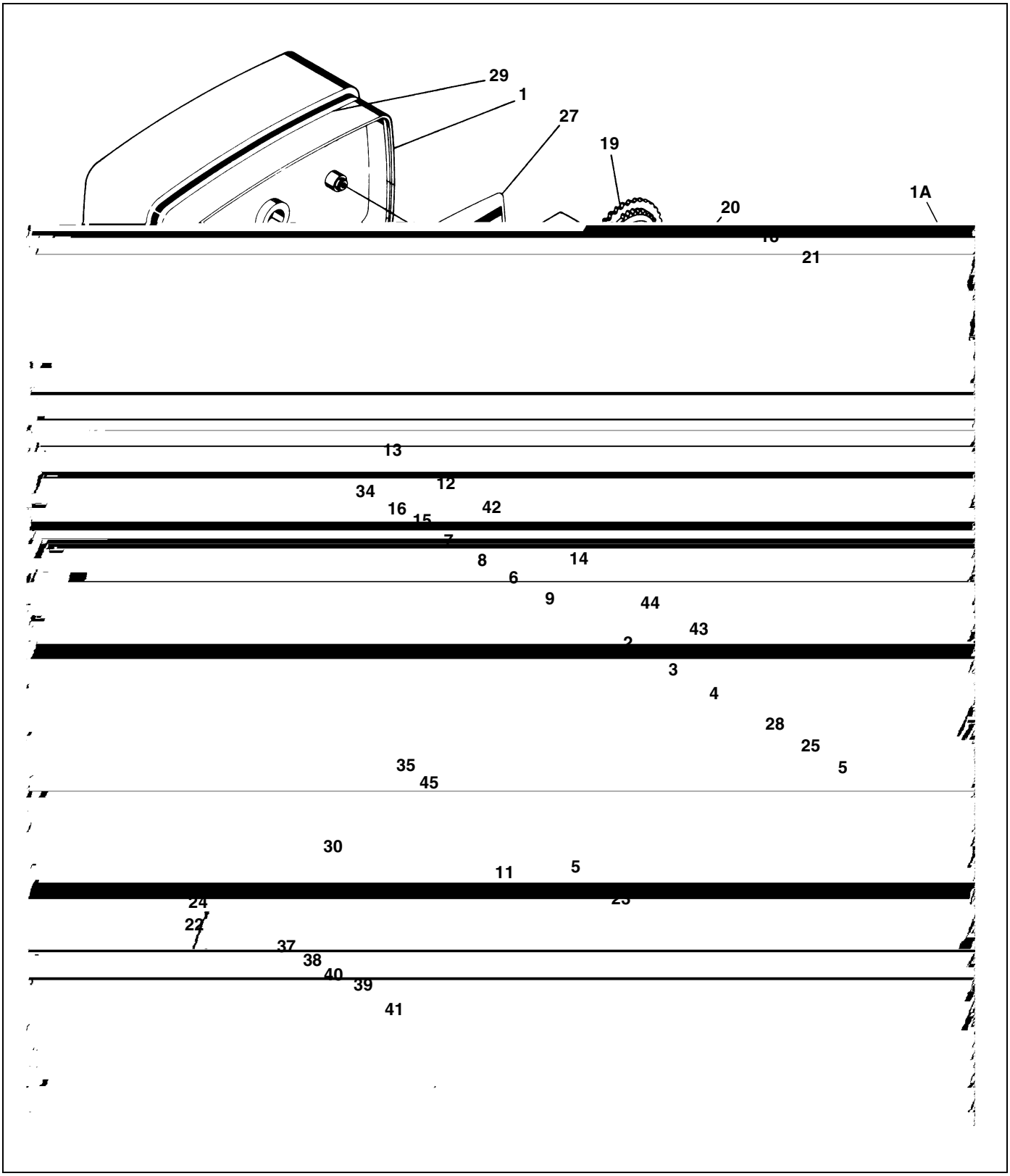



Figure 14: Model ***5600 E*** Control Valve Drive Assembly

| No. | No. Req'd | Part Number | |
|---|---|---|---|
| 1 | 1 | 14488-001 | Drive Housing, with Pin Drilled for Cover |
| 1A | 1 | 15494-01 | "L" Housing, with Pin |
| | 1 | 15494-03 | "L" Housing, with Pin Drilled for Designer |
| 2 | 1 | 13175 | Motor Mounting Plate |
| 3 | 1 | 18743 | Motor, 120V, 60 Hz |
| | 1 | 13494 | Motor, 24V, 60 Hz |
| 4 | 2-3 | 11384 | Screw, Motor Mtg. and Ground Wire |
| 5 | 2-4 | 13296 | Screw, Component Mounting |
| 6 | 1 | 13017 | Idler Gear |
| 7 | 1 | 13018 | Idler Pinion |
| 8 | 1 | 13312 | Spring, Idler |
| 9 | 1 | 13164 | Drive Gear |
| 11 | 1 | 13170 | Main Gear and Shaft |
| 12 | 1 | 19205 | 24-hour Gear Assembly, Silver |
| | 1 | 19205-01 | 24-hour Gear Assembly, Tan |
| 13 | 1 | 13802 | Cycle Actuator Gear |
| 14 | 1 | 14177 | Knob, Manual Regeneration |
| 15 | 2 | 13300 | Ball, 1/4″ Dia. |
| 16 | 2 | 19080 | Spring, Compression, 6700 |
| 18 | 1 | 13748 | Screw, Program Wheel |
| 19 | 1 | 60405-15 | Program Skipper Wheel Assembly, Specify Hardness Capacity |
| 20 | 1 | 13806 | Program Wheel Retainer |
| 21 | 1 | 13953 | Cover Label, Program Wheel |
| 22 | 1 | 11842 | Electrical Cord |
| 23 | 2 | 12681 | Wire Connector |
| 24 | 1 | 13547 | Strain Relief |
| 25 | 1 | 13229 | Back Cover |
| 26 | | | not assigned |
| 27 | 1 | 13955 | Front Label, Beige |
| | 1 | 13958 | Front Label, Silver |
| 28 | 1 | 13310 | Rear Label, Softener |
| | 1 | 18520 | Rear Label, Filter |
| 29 | 1 | 13957 | Tape Stripe, Beige |
| | 1 | 13960 | Tape Stripe, Silver |
| 30 | 1 | 60514 | Brine Cam Assembly, 3-18 |
| | 1 | 60514-01 | Brine Cam Assembly, 6-36 |
| | 1 | 60514-02 | Brine Cam Assembly, Minutes |
| 34 | 2 | 12473 | Screw-drive Mounting |
| 35 | 1 | 12037 | Washer |
| 37 | 1 | 13830 | Drive Pinion, Program Wheel |
| 38 | 1 | 13831 | Clutch, Drive Pinion |
| 39 | 1 | 14253 | Spring Retainer |
| 40 | 1 | 14276 | Spring |
| 41 | 1 | 14043 | Cable Assembly, Standard |
| | 1 | 14910 | Cable Assembly, Extended, Right Angle |
| 42 | 1 | 14176 | Valve Position Dial, Standard |
| | 1 | 14278 | Valve Position Dial, Low Water |
| | 1 | 15478 | Valve Position Dial, Filter |
| 43 | 1 | 14175 | Knob Label, Beige |
| | 1 | 14207 | Knob Label, Silver |
| 44 | 1 | 15151 | Screw, Knob |
| 45 | 1 | 40214 | Screw, Brine Cam |

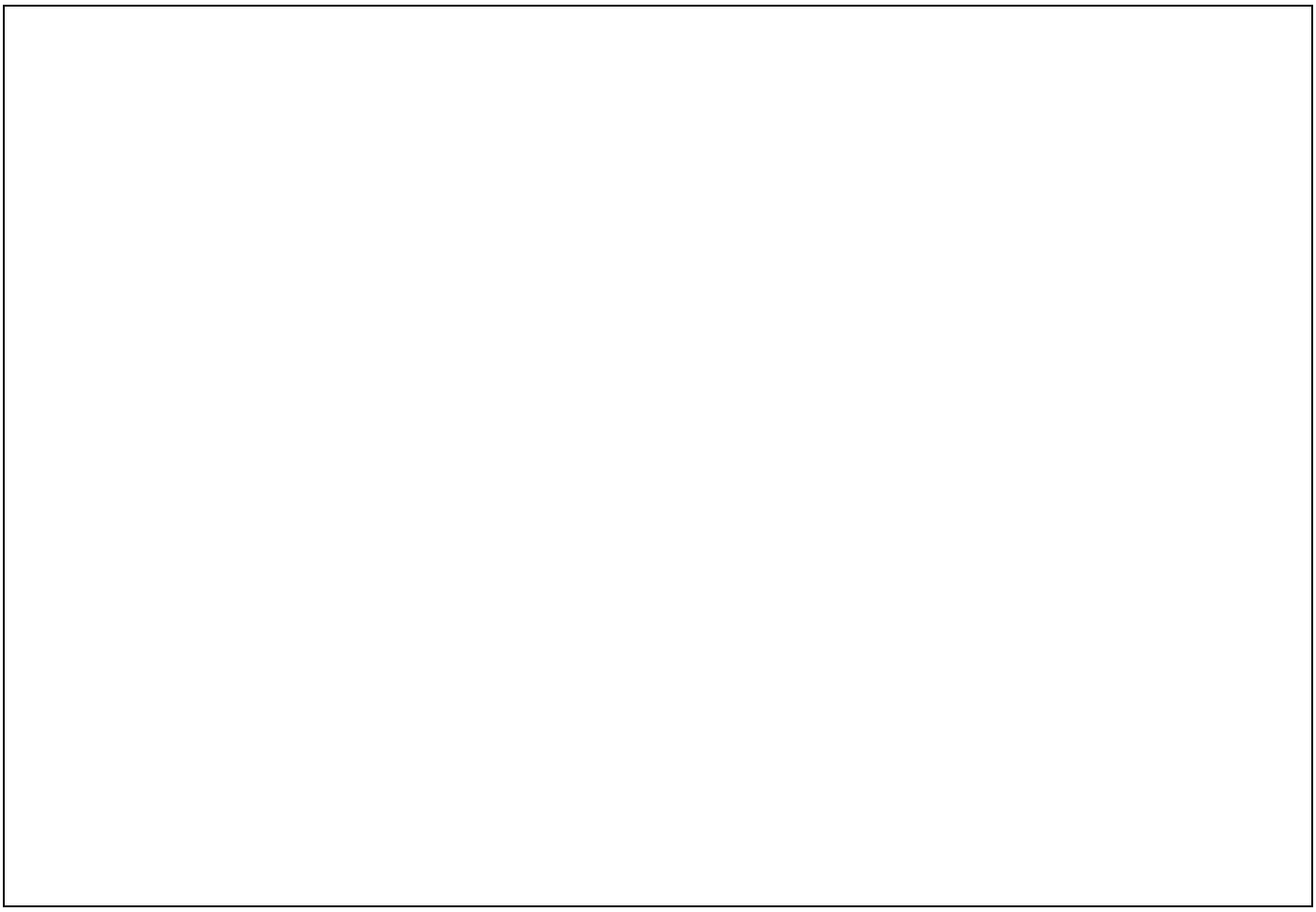


Figure 15: Bypass Valve Assembly, Plastic

| [illegible] | No. Req'd | Part Number | [illegible] |
|---|---|---|---|
| 9 | 2 | 13305 | O-ring, 119 |
| 10 | 2 | 13255 | Clip, Mounting |
| 11 | 2 | 13314 | Screw, Hex Washer Head, #8-18 x 5/8" |
| 12A | 1 | 18706 | Yoke, Plastic 1" NPT |
| | 1 | 18706-02 | Yoke, Plastic 3/4" |
| 12B | 1 | 13708 | Yoke, 3/4" |
| | 1 | 13708NP | Yoke, 3/4" (Nickel-plated) |
| | 1 | 13398 | Yoke, 1" |
| | 1 | 13398NP | Yoke, 1" (Nickel-plated) |

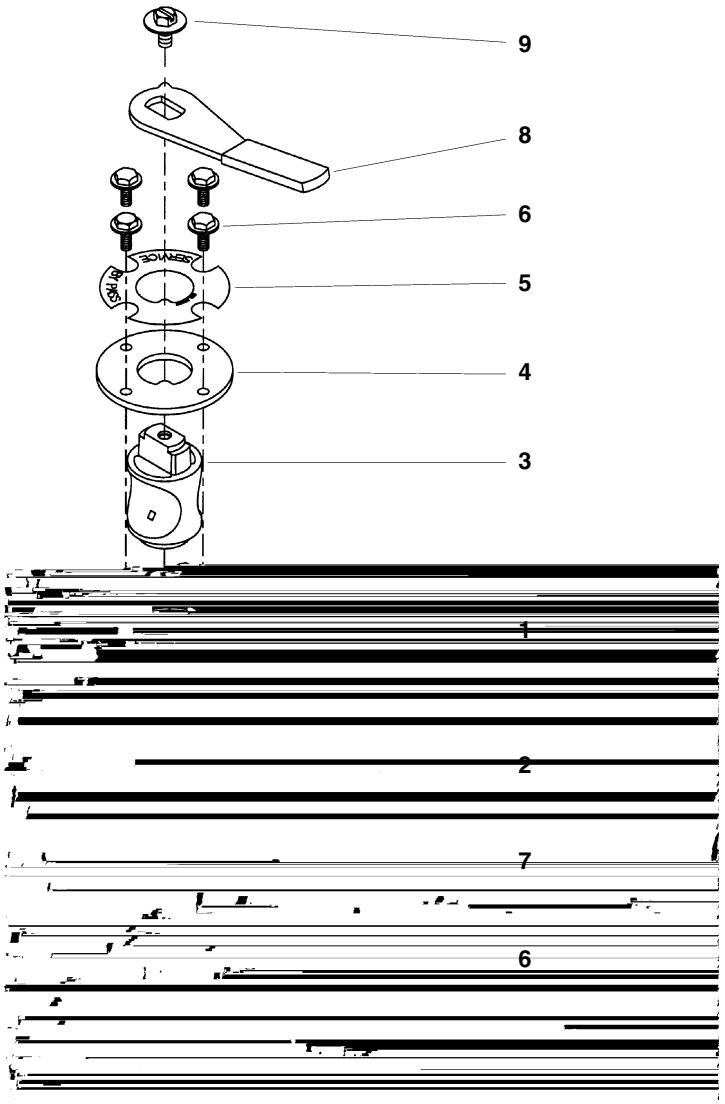



Figure 16: Bypass Valve Assembly, Brass

| 8 | No. Req'd | Part Number | |
|---|---|---|---|
| 1 | 1 | 17290 | Bypass Valve Body, 3/4" |
| | 1 | 17290NP | Bypass Valve Body, 3/4" |
| | 1 | 13399 | Bypass Valve Body, 1" |
| | 1 | 13399NP | Bypass Valve Body, 1" (Nickel-plated) |
| 2 | 1 | 11726 | Seal, Bypass |
| 3 | 1 | 11972 | Plug, Bypass |
| 4 | 1 | 11978 | Side Cover |
| 5 | 1 | 13604-01 | Label |
| 6 | 8 | 15727 | Screw |
| 7 | 1 | 11986 | Side Cover |
| 8 | 1 | 11979 | Lever, Bypass |
| 9 | 1 | 11989 | Screw, Hex Head, 1/4-14 |

## [illegible] B [illegible]

1. Unplug electrical cord from outlet.
2. Turn off water supply to conditioner:
   - — If the conditioner installation has a “three valve” bypass system, first open the valve in the bypass line, then close the valves at the conditioner inlet and outlet.
   - — If the conditioner has an integral bypass valve, put it in the **B**[illegible] position.
   - — If there is only a shut-off valve near the conditioner inlet, close it.

## [illegible] (C[illegible])

[illegible]

1. Unplug electrical cord from outlet.
2. Turn off water supply to conditioner:
   - If the conditioner installation has a “three valve” bypass system, first open the valve in the bypass line, then close the valves at the conditioner inlet and outlet.
   - If the conditioner has an integral bypass valve, put it in the **B**[illegible] position.
   - If there is only a shut-off valve near the conditioner inlet, close it.
3. Relieve water pressure in the conditioner by putting the control in the **B**[illegible] position momentarily. Return the control to the [illegible] position.
4. Pull cable out of meter cover. Remove the control valve back cover.
5. Remove screw and washer at drive yoke. Remove timer mounting screws. The entire timer assembly now lifts off easily.
6. Put new timer on top of valve. Be sure drive pin on main gear engages slot in drive yoke (rotate control knob if necessary).
7. Replace timer mounting screws. Replace screw and washer at drive yoke.
8. Return bypass or inlet valving to normal [illegible]

[illegible] A[illegible]

1. Unplug electrical cord from outlet.
2. Turn off water supply to conditioner:
   - — If the conditioner installation has a “three valve” bypass system, first open the valve in the bypass line, then close the valves at the conditioner inlet and outlet.
   - — If the conditioner has an integral bypass valve, put it in the **B**[illegible] position.
   - — If there is only a shut-off valve near the conditioner inlet, close it.
3. Relieve water pressure in the conditioner by putting the control in the **B**[illegible] position momentarily. Return the control to the

[illegible]

1. Unplug electrical cord from outlet.
2. Turn off water supply to conditioner:
   - — If the conditioner installation has a “three valve” bypass system, first open the valve in the bypass line, then close the valves at the conditioner inlet and outlet.
   - — If the conditioner has an integral bypass valve, put it in the **B**[illegible] position.

[illegible] C [illegible] /

1. Unplug electrical cord from outlet.
2. Turn off water supply to conditioner:
   — If the conditioner installation has a “three valve” bypass system, first open the valve in the bypass line, then close the valves at the conditioner inlet and outlet.
   — If the conditioner has an integral bypass valve, put it in the **B**[illegible] position.
   — If there is only a shut-off valve near the conditioner inlet, close it.
3. Relieve water pressure in the conditioner by putting the control in the **B**[illegible] position momentarily. Return the control to the [illegible] position.
4. Pull cable out of meter cover.
5. Remove four screws on cover
6. Lift cover off of meter module, discard O-ring.
7. Remove and inspect impeller for gear or spindle damage, replace if necessary.
8. Apply silicone lubricant to new O-ring and assemble to the smallest diameter on meter cover.
9. Assemble cover to meter module. Be sure impeller spindle enters freely into cover. Press firmly on cover and rotate if necessary to assist in assembly.
10. Replace four screws and tighten.
11. Return bypass or inlet valving to normal [illegible] position. Water pressure automatically builds in the conditioner.

    ***E:*** Be sure to shut off any bypass line.
12. Check for leaks at all seal areas.
13. Plug electrical cord into outlet.
14. Set time of day.
    — Make sure control valve is in the [illegible] position.
15. Rotate program wheel counterclockwise until it stops at [illegible] position.
16. Start regeneration cycle manually if water is hard.
17. Plug cable into meter cover. Rotate cable to align drive flat if necessary.

| BLE | CA E | C EC |
|---|---|---|
| 1. Softener fails to regenerate. | A. Electrical service to unit has been interrupted. | A. Assure permanent electrical service (check fuse, plug, pull chain or switch). |
| | B. Timer is defective. | B. Replace timer. |
| | C. Power failure. | C. Reset time of day. |
| 2. Softener delivers hard water. | A. Bypass valve is open. | A. Close bypass valve. |
| | B. No salt in brine tank. | B. Add salt to brine tank and maintain salt level above water level. |
| | C. Injectors or screen is plugged. | C. Replace injectors and screen. |
| | D. Insufficient water flowing into brine tank. | D. Check brine tank fill time and clean brine line flow control if plugged. |
| | E. Hot water tank hardness. | E. Repeated flushings of the hot water tank is required. |
| | F. Leak at distributor tube. | F. Make sure distributor tube is not cracked. Check O-ring and tube pilot. |
| | G. Internal valve leak. | G. Replace seals and spacers and/or piston. |
| 3. Unit uses too much salt. | A. Improper salt setting. | A. Check salt usage and salt setting. |
| | B. Excess water in brine tank. | B. See problem number 7. |
| 4. Loss of water pressure. | A. Iron build-up in line to water conditioner. | A. Clean line to water conditioner. |
| | B. Iron build-up in water conditioner. | B. Clean control and add resin cleaner to resin bed. Increase frequency of regeneration. |
| | C. Inlet of control plugged due to foreign material loose from pipes by recent work done on plumbing system. | C. Remove piston and clean control. |
| 5. Loss of resin through drain line. | A. Air in water system. | A. Assure that well system has proper air elimination control, check for dry well condition. |
| 6. Iron in conditioned water. | A. Fouled resin bed. | A. Check backwash, brine draw and brine tank fill, increase frequency of regeneration, increase backwash time. |
| 7. Excessive water in brine tank. | A. Plugged drain line flow control. | A. Clean flow control. |
| 8. Salt water in service line. | A. Plugged injector system. | A. Clean injector and replace screen. |
| | B. Timer not cycling. | B. Replace timer. |
| | C. Foreign material in brine valve. | C. Clean or replace brine valve. |
| | D. Foreign material in brine line flow control. | D. Clean brine line flow control. |

BL E CA E C EC

C

| BLE | CA E | C EC |
|---|---|---|
| 1. Filter fails to backwash. | A. Electrical service to unit has been interrupted. | A. Assure permanent electrical service (check fuse, plug, pull chain or switch). |
| | B. Timer is defective. | B. Replace timer. |
| | C. Power failure. | C. Reset time of day. |
| 2. Filter "bleeds" iron. | A. Bypass valve is open. | A. Close bypass valve. |
| | B. Excessive water usage. | B. Reduce days between, backwashing (see timer instructions), make sure that there is not a leaking valve in the toilet bowl or sinks. |
| | C. Hot water tank rusty. | C. Repeated flushings of the hot water tank is required. |
| | D. Leak at distributor tube. | D. Make sure distributor tube is not cracked, check O-ring and tube pilot. |
| | E. Defective or stripped filter medium bed. | E. Replace bed. |
| | F. Inadequate backwash flow rate. | F. Make sure filter has correct drain flow control, be sure flow control is not clogged or drain line restricted, be sure water pressure has not dropped, increase backwash flow rate according to specifications for your unit, see your dealer for recommendations. |
| 3. Loss of water pressure. | A. Iron or turbidity build-up in water filter. | A. Reduce days between backwashing so filter backwashes more often, make sure filter is sized large enough to handle water usage. |
| | B. Inlet plugged due to foreign material broken loose from pipes by recent work done on plumbing system. | B. Remove piston and clean control. |
| 4. Loss of filter medium through drain line. | A. Broken or missing top screen. | A. Replace top screen, must have 0.020" wide slots. |
| 5. Drain flows continuously. | A. Foreign material in control. | A. Remove piston assembly and inspect bore, remove foreign material and check control in various cycle positions. |
| | B. Internal control leak. | B. Replace seals and/or piston assembly. |
| | C. Control valve jammed in rinse or backwash. | C. Replace piston, seals and spacers (and drive motor if necessary). |

| Part Number | |
|---|---|
| 60102-00 | Piston, Softener |
| 60102-10 | Piston, Filter |
| 60102-20 | Piston, Low Water |
| 60125 | Seal Kit |
| 60084-XX | Injector |
| 60032 | Brine Valve |
| 60514 | Brine Cam, 3-18 |
| 60514-01 | Brine Cam, 6-36 |
| 60514-02 | Brine Cam, Minutes |
| 60510 | Coupling, with Clip and Screws |
| 60040 | Bypass, Brass 3/4" NPT |
| 60041 | Bypass, Brass 1" NPT |