

Whirlpool

Model WHES40

Model WHES44

Model WHESCS

Water softener

Installation and operation manual \*

How to install, operate

and maintain your Demand

Controlled Water Softener



Our industry refers to this unit configuration as a tank in tank unit. In Arizona the salt can stick to the resin tank. We call this problem a 'salt bridge'. Salt bridges are very inconvenient.

#### Specifications & Performance Claims

These models are efficiency rated. The efficiency rating is valid only at the minimum salt dose and rated service flow. These softeners have a demand initiated regeneration (D.I.R.) feature that complies with specific performance specifications intended to minimize the amount of regenerant brine and water used in their operation.

These softeners have a rated softener efficiency of not less than 3,350 grains of total hardness exchange per pound of salt (based on sodium chloride) and shall not deliver more salt than their listed rating or be operated at a sustained maximum service flow rate greater than their listed rating. These softeners have been proven to deliver soft water for at least ten continuous minutes at the rated service flow rate. The

rated salt efficiency is measured by laboratory tests described in NSF/ANSI Standard 44. These tests represent the maximum possible efficiency that the system can achieve. Operational efficiency is the actual efficiency after the system has been installed. It is typically less than the rated efficiency, due to individual application factors including water hardness, water usage, and other contaminants that reduce a softener's capacity.

Model WHES40      Model WHES44

Model Code   LL40   LL44

### Packing List



Bypass valve, Drain Hose, Clips, installation adaptors, Hose Clamps, Adapter Elbow, Grommet, O-rings, Water Hardness Test Strip

### Water Conditioning Information

#### IRON

Iron in water can cause stains on clothing and plumbing fixtures. It can negatively affect the taste of food, drinking water, and other beverages. Iron in water is measured in parts per million (ppm). The total\* ppm of iron, and type or types\*, is determined by chemical analysis. Four different types of iron in water are:

Ferrous (clear water) iron

Ferric (red water) iron

Bacterial and organically bound iron

Colloidal and inorganically bound iron (ferrous or ferric)

Ferrous (clear water) iron is soluble and dissolves in water. This water softener will reduce moderate amounts of this type of iron (see specifications).\*\* Ferrous (clear water) iron is usually detected by taking a sample of water in a clear bottle or glass. Immediately after taking, the sample is clear. As the water sample stands, it gradually clouds and turns slightly yellow or brown as air oxidizes the iron. This usually occurs in 15 to 30 minutes.

When using the softener to reduce Ferrous (clear water) iron, add 5 grains to the hardness setting for every 1 ppm of Ferrous (clear water) iron. See "Set Water Hardness Number" section.

Ferric (red water), and bacterial and organically bound irons are insoluble. This water softener will not remove ferric or bacterial iron. This iron is visible

immediately when drawn from a faucet because it has oxidized before reaching the home. It appears as small cloudy yellow, orange, or reddish suspended particles. After the water stands for a period of time, the particles settle to the bottom of the container. Generally these irons are removed from water by filtration. Chlorination is also recommended for bacterial iron.

Colloidal and inorganically bound iron is of ferric or ferrous form that will not filter or exchange out of water. This water softener will not remove colloidal iron. In some instances, treatment may improve colloidal iron water. Colloidal iron water usually has a yellow appearance when drawn. After standing for several hours, the color persists and the iron does not settle, but remains suspended in the water.

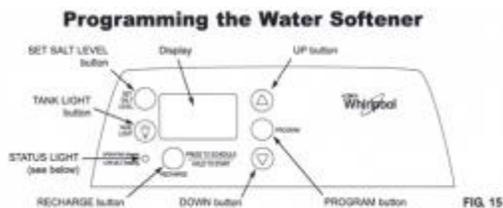
## SEDIMENT

Sediment is fine, foreign material particles suspended in water. This water softener will not remove sediment. This material is most often clay or silt. Extreme amounts of sediment may give the water a cloudy appearance. A sediment filter installed upstream of the water softener normally corrects this situation.

\* Water may contain one or more of the four types of iron and any combination of these. Total iron is the sum of the contents.

\*\* Capacity to reduce clear water iron is substantiated by WQA test data.

## Programming the Water Softener



Words in picture: SET SALT LEVEL, Display, UP button, TANK LIGHT button, STATUS LIGHT (see below), RECHARGE button, DOWN button, PROGRAM button, STATUS LIGHT, PROGRAM THE SOFTENER fig 15

When the water softener is connected to electrical power, the status light on the control panel will operate as follows:

Light flashing slowly, along with the salt level indicators in the display – The salt monitor system indicates a low salt level and needs to be set See "Set Salt Level" on Page 14.

Light flashing slowly, along with the words "SCHEDULED CLEAN" in the display – Four months have elapsed on the system's timer since start up or the last reset. This is a reminder to use Whirlpool® WHE-WSC Water Softener Cleanser three times a year. To reset the timer, press any button on the control panel and the flashing words will disappear. The status light will stop flashing, unless the system is also low on salt (see above).

Light flashing rapidly, with “CURRENT TIME” shown in the display and the clock flashing slowly – The present time needs to be set, either during initial start up or after a long power outage. See “Set Time of Day”, at right.

Light flashing rapidly, with “Err” shown in the display – The electronic self-diagnostics have detected a problem. See “Troubleshooting” on Page 18.

Light on steady (not flashing) – The system has power applied and does not require any attention.

When the power supply is plugged into the electrical outlet, the model code (“LL40” for Model WHES40 or “LL44” for Model WHES44) and a test number (example: J3.0), are briefly shown in the display. Then the words “CURRENT TIME” appear and 12:00 PM begins to flash.

#### SET TIME OF DAY

If the words “CURRENT TIME” do not show in the display, press the PROGRAM button until they do.

Press the UP or DOWN buttons to set the present time. Up moves the display ahead; down sets the time back. Be sure AM or PM is correct.

NOTE: Press buttons and quickly release to slowly advance the display. Hold the buttons down for fast advance.

#### Programming the Water Softener

##### SET WATER HARDNESS NUMBER

Press the PROGRAM button once again to display a flashing “25” and the word “HARDNESS”.

Press the UP or DOWN buttons to set your water’s hardness number.

NOTE: If your water supply contains iron, compensate for it by adding to the water hardness number. For example, assume your water is 20 gpg hard and contains 2 ppm iron. Add 5 to the hardness number for each 1 ppm of iron. In this example, you would use 30 for your hardness number.

20 gpg hardness

2ppm iron x 5 = + 10

30 HARDNESS NUMBER

##### SET RECHARGE (REGENERATION) TIME

Press the PROGRAM button once again to display a flashing “2:00AM” and the words “RECHARGE TIME”. This is a good time for the recharge to start in most households, because water is not in use.

If you want to change the recharge start time, press the UP or DOWN buttons until the desired time shows. Be sure AM or PM is correct.

#### SET SALT TYPE

Press the PROGRAM button once again to display a flashing “nACL”.

Salt Type allows you to choose between sodium chloride (NaCl), which is regular softener salt, or potassium chloride (KCl), which is an alternative to sodium chloride. KCl (potassium chloride) may be used if the user of the water softener is on a sodium restricted diet and is concerned about the amount of sodium in the water supply.

KCl should be used in accordance with the following steps to help give you years of maintenance free service.

Place only one bag at a time of KCl into your softener (the salt storage tank should contain no more than 60 pounds of KCl at any one time).

NOTE: A softener using KCl should not be located in areas with high temperature changes or high humidity (KCl may harden in these environments and make the softener inoperable).

Check the brine tank and brinewell (black tube in salt storage tank) monthly. If hardening is present, pour small amounts of warm water on hardened areas until they loosen.

Be sure to set the correct salt type, depending on which type of salt is used (Na Cl or KCl). Use the UP or DOWN buttons to toggle between NaCl and KCl, then press the PROGRAM button to enter the selection.

Press the PROGRAM button once again to return to normal operating display.

#### START A RECHARGE

Press the RECHARGE button and hold for three seconds, until “RECHARGE” begins to flash in the display, starting a recharge. This recharge draws the sanitizing bleach into and through the water softener. Any air remaining in the water softener is purged to the drain. During this time, periodically check for leaks.

NOTE: As with all other water system applications, leaks may occur. Leaks may not be immediately apparent. Recheck for leaks 24 hours after first recharge cycle is complete.

### Customizing Features / Options

#### RECHARGE

The RECHARGE button is used to initiate an immediate recharge.

Press and hold the RECHARGE button until the words “RECHARGE”, “SERVICE” and “FILL” flash in the display.

Recharge initiated

The softener enters the fill cycle of regeneration right away. "RECHARGE" will flash during the regeneration. When completed, full water conditioning capacity is restored. While water softener is running a recharge, the time remaining until the recharge is completed will show in the display during all cycles except for the Fill cycle.

NOTE: Avoid using hot water while the softener is regenerating, because the water heater will refill with bypass hard water.

#### RECHARGE SCHEDULED

If you do not want to start an immediate recharge, but would like to schedule an extra recharge at the next preset recharge time, do the following:

Press and release (do not hold) the RECHARGE button.

RECHARGE scheduled

The words "RECHARGE SCHEDULED" flash in the display, and the softener will recharge at the next recharge time. The word "RECHARGE" will flash during the regeneration. When completed, full water conditioning capacity is restored.

#### SET SALT LEVEL

The water softener has a salt monitor indicator light to remind you to add salt to the storage tank.

NOTE: You must set salt level each time salt is added to the water softener.

To set this monitor system:

Lift the salt lid and level the salt in the storage tank.

The salt level scale, on the brinewell inside the tank, has numbers from 0 to 8. Observe the highest number the leveled salt is at, or closest to.

Press the SET SALT LEVEL button until black ovals correspond to the salt level number (See Figure 22). At level 2 or below, the "Check Salt Level" LED indicator will flash.

If you want to turn the salt monitor off, press the SET SALT LEVEL button until "SALT LEVEL OFF" shows in the display

#### TANK LIGHT

The water softener is equipped with a tank light for viewing the salt level in the brine tank. Push the tank light button on the electronic control once, and the tank light will turn on. Pushing the tank light

button again will turn the light off. The tank light will automatically turn off after a period of 15 minutes if the tank light button is not used to turn it off.

## Customizing Features | Options

### POWER OUTAGE MEMORY

If electrical power to the water softener is lost, “memory” built into the timer circuitry will keep all settings for several hours. While the power is out, the display is blank and the water softener will not regenerate. When electrical power is restored, the following will occur:

Reset the present time only if the display is flashing. The HARDNESS and RECHARGE TIME never require resetting unless a change is desired. Even if the clock is incorrect after a long power outage, the softener operates as it should to keep your water soft. However, regenerations may occur at the wrong time of day until you reset the clock to the correct time of day.

NOTE: If the water softener was regenerating when power was lost, it will now finish the cycle.

### WATER FLOW INDICATOR

Whenever the softener has water flowing from the outlet port, the display will show water droplets scrolling down the right hand side of the screen (See Figure 24). The faster the water flow, the faster the droplets will flash.

### SALT EFFICIENCY

When this feature is ON, the water softener will operate at salt efficiencies of 4000 grains of hardness per pound of salt or higher (May recharge more often using smaller salt dosage and less water). The softener is shipped with this feature set OFF.

Press and hold the PROGRAM button until the screen in Figure 25 is displayed. Once in this display, press the PROGRAM button once and one of the two displays in Figure 26 is shown.

Press the UP or DOWN buttons to set ON or OFF. When set to ON, the efficiency icon will be displayed in the lower left hand corner of the normal run display.

Press the PROGRAM button five times to return to the normal run display.

09.23.15 1:40 PM

### CLEAN FEATURE MINUTES

The Clean | Clear Water Iron Reduction feature (described above) may be adjusted, from 1 to 15 minutes in length. To change this cycle time, use the UP button to increase the time, or the DOWN button to shorten the time. The default value for this feature is 2 minutes.

Press and hold the PROGRAM button. Once 000 is in the display, press the PROGRAM button three times and the display will show 2.

Press the UP or DOWN buttons to set the number of minutes.

Press the PROGRAM button three times to return to the normal run display.

#### MAXIMUM DAYS BETWEEN REGENERATIONS

The water softener automatically controls regeneration frequency. This provides the greatest operating efficiency and, under most conditions, this feature should be left in this automatic mode. However, you may modify this feature if you want to force a regeneration every set number of days. For example, if your water supply contains clear water iron, you may want the softener to regenerate every few days to keep the resin bed clean. The maximum days between recharges may be set from 1 to 15 days, as follows:

NOTE: The softener will recharge on its own if needed, even if it is before the set number of days.

Press and hold the PROGRAM button until the screen displays 000 . Once in this display, press the PROGRAM button four times and the display will show -- .

Press the UP or DOWN buttons to set the number of days.

Press the PROGRAM button two times to return to the normal time of day screen.

#### 12 OR 24 HOUR CLOCK

All time displays are shown in standard clock time (AM and PM) at the 12 hour default setting. If 24 hour clock displays are desired, follow steps below:

Press and hold the PROGRAM button until the screen displays 000. Once in this display, press the PROGRAM button five times and one of these two figures will appear 12hr or 24hr.

Press the UP or DOWN buttons to set the time format.

Press the PROGRAM button once again, to return to the normal time of day screen.

#### Routine Maintenance

##### ADDING SALT

Lift the salt lid and check the salt storage level frequently. If the water softener uses all the salt before you refill it, you will experience hard water. Until you have established a refilling routine, check the salt every two or three weeks. Always add if less than 1/4 full. Be sure the brinewell cover is on.

NOTE: If using potassium chloride (KCl), do not fill above level 4 on the brinewell scale.

NOTE: In humid areas, it is best to keep the salt storage level lower, and to refill more often to avoid salt “bridging”.

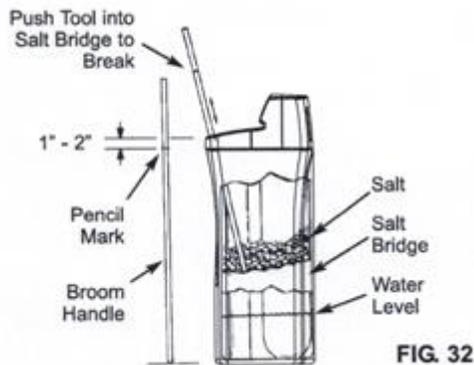
Recommended Salt: Nugget, pellet or coarse solar salts with less than 1% impurities.

Salt Not Recommended: Rock salt, high in impurities, block, granulated, table, ice melting, ice cream making salts, etc.

#### BREAKING A SALT BRIDGE

Sometimes, a hard crust or salt “bridge” forms in the brine tank. It is usually caused by high humidity or the wrong kind of salt. When the salt “bridges,” an empty space forms between the water and the salt. Then, salt will not dissolve in the water to make brine. Without brine, the resin bed is not recharged and hard water will result.

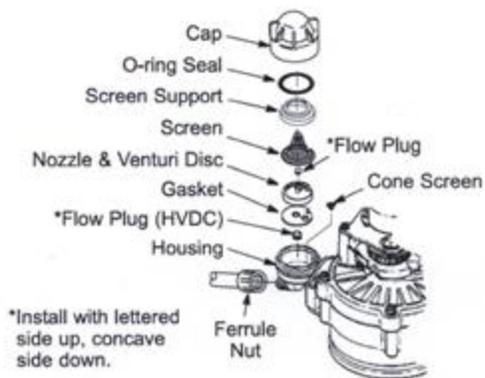
If the storage tank is full of salt, it is difficult to tell if you have a salt bridge. A bridge may be underneath loose salt. Take a broom handle, or like tool, and hold it next to the water softener. Measure the distance from the floor to the rim of the water softener. Then, gently push the broom handle straight down into the salt. If a hard object is felt before the pencil mark is even with the top, it is most likely a salt bridge. Gently push into the bridge in several places to break it. Do not use any sharp or pointed objects as you may puncture the brine tank. Do not try to break the salt bridge by pounding on the outside of the salt tank. You may damage the tank.



Words in the picture: Push Tool into; Salt Bridge to; Break; Pencil Mark; Broom Handle

#### CLEANING THE NOZZLE & VENTURI

A clean nozzle & venturi (See Figure 33) is a necessity for the water softener to work properly. This small component creates the suction to move brine from the brine tank, into the resin tank. If it should become plugged with sand, silt, dirt, etc., the water softener will not work, and hard water will result.



Words in picture: O-ring Seal; Screen Support; Screen; Nozzle & Venturi Disc; Plug; Gasket; Cone Screen; Flow Plug (HVDC); Housing; Ferrule Nut

\*Install with lettered side up, concave Nut side down.

**IMPORTANT:** Be sure small hole in the gasket is centered directly over the small hole in the nozzle & venturi housing. Be sure the numbers are facing up

To get access to the nozzle & venturi, remove the water softener's top cover. Put the bypass valve(s) into the bypass position. Be sure the water softener is in soft water (service) cycle (no water pressure at nozzle & venturi). Then, holding the nozzle & venturi housing with one hand, unscrew the cap. Do not lose the O-ring seal. Lift out the screen support and screen. Then, remove the nozzle & venturi disc, gasket and flow plug(s). Wash the parts in warm, soapy water and rinse in fresh water. Be sure to clean both the top and bottom of the nozzle & venturi disc. If needed, use a small brush to remove iron or dirt. Do not scratch, misshape, etc., surfaces of the nozzle & venturi.

Gently replace all parts in the correct order. Lubricate the O-ring seal with silicone grease and locate in place. Install and tighten the cap by hand, while supporting the housing. Overtightening may break the cap or housing. Put the bypass valve(s) into service (soft water) position.

Recharge the softener to reduce water level in the tank. This will also assure that the softener is completely recharged and ready to provide softened water again. Check the water level in the tank by looking down the brinewell. If the water level does not drop after a recharge, the problem has not been resolved. Call 1-(480) 969-7251, Monday – Friday, 8 am to 5 PM Mountain Time.

## Troubleshooting

### AUTOMATIC ELECTRONIC DIAGNOSTICS

This water softener has a self-diagnostic function for the electrical system (except input power and/or water meter). The water softener monitors electronic components and circuits for correct operation. If a malfunction occurs, an error code appears in the display.

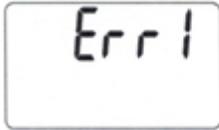


FIG. 34

## Err 1

While an error code appears in the display, all buttons are inoperable except the PROGRAM button. PROGRAM remains operational so the service person can perform the Manual Advance Diagnostics, see below, to further isolate the problem.

Procedure for removing error code from display:

Unplug power supply from electrical outlet.

Correct problem.

Plug power supply back in.

Wait 8 minutes. The error code will return if the problem was not corrected.

## MANUAL ADVANCE DIAGNOSTICS

Use the following procedures to advance the water softener through the regeneration cycles to check operation.

Lift off the salt lid, remove the top cover by unlocking the tabs in the back and rocking forward, to observe cam and switch operation during valve rotation.

Press and hold PROGRAM for 3 seconds until "000" shows in the display, then release.

The 3 digits indicate water meter operation as follows:

000 (steady) = Soft water not in use, and no flow through the meter.

Open a nearby soft water faucet.

000 to 140 (continual) = Repeats for each gallon of water passing through the meter.

Symbols in the display indicate POSITION switch operation

Switch is open (Cam not rotating)                      Switch is closed                      (Cam rotating)

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

NOTE: Be sure water is in contact with the salt, and not separated by a salt bridge (See "Breaking A Salt Bridge" section).

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 electronic controller.

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

Press the DOWN button to display the number of regenerations initiated by this electronic control since the code number was entered.

Press and hold the PROGRAM button until the model code ("LL40" for Model WHES40 or "LL44" for Model WHES44) shows in the display. This code identifies the softener model. If an incorrect model code is displayed, the softener will operate on incorrect configuration data.

To change the code number, press the UP or V DOWN button until the correct code shows.

To return to the present time display, press the PROGRAM button.

## Troubleshooting

### RESETTING TO FACTORY DEFAULTS

To reset the electronic controller to its factory default for all settings (time, hardness, etc.):

Press the PROGRAM button and hold it until the display changes twice to show the flashing model code.

Press the UP button (a few times, if necessary) to display a flashing "SoS".



Press the PROGRAM button, and the electronic controller will restart.

Set the present time, hardness, etc., as described

### MANUAL ADVANCE REGENERATION CHECK

This check verifies proper operation of the valve motor, brine tank fill, brine draw, regeneration flow rates, and other controller functions. Always make the initial checks, and the manual initiated diagnostics.

NOTE: The electronic control display must show a steady time (not flashing). If an error code shows, first press the PROGRAM button to enter the diagnostic display.

Press the RECHARGE button and hold in for 3 seconds. RECHARGE begins to flash as the softener's valve advances from the service to fill position. Remove the brinewell cover and, using a flashlight, observe fill water entering the tank.

If water does not enter the tank, look for an obstructed nozzle, venturi, fill flow plug, brine tubing, or brine valve riser pipe.

After observing fill, press the RECHARGE button to move the softener's valve into the brine position. A slow flow of water to the drain will begin. Verify brine draw from the brine tank by shining a flashlight into the brinewell and observing a noticeable drop in the liquid level. This may take 15 to 20 minutes.

NOTE: Be sure water is in contact with the salt, and not separated by a salt bridge (See "Breaking A Salt Bridge" section).

If the water softener does not draw brine, check for (most likely to least likely):

Dirty or plugged nozzle and venturi, see "Cleaning the Nozzle and Venturi" section.

Nozzle and venturi not seated on the gasket, or gasket deformed.

Valve seals leaking (See Troubleshooting).

Restriction in valve drain, causing a back-pressure (bends, kinks, elevated too high, etc.). See "Install Valve Drain Hose" section.

Obstruction in brine valve or brine tubing.

NOTE: If water system pressure is low, a too-long or elevated drain hose may cause back pressure, stopping brine draw. Avoid drain hose runs longer than 30 feet. Avoid elevating the hose more than 8 feet above the floor.

Press the RECHARGE button to move the softener's valve into the backwash position. Look for a fast flow of water from the drain hose. Check that the drain can adequately handle the flow and volume.

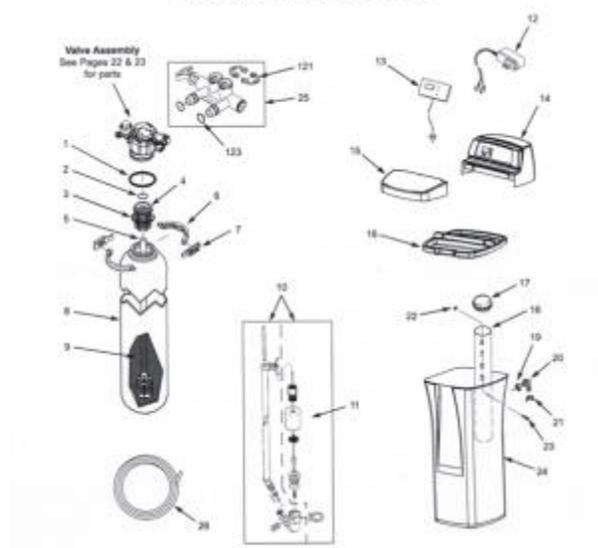
An obstructed flow indicates a plugged top distributor, backwash flow plug, or drain hose.

Press the RECHARGE button to move the softener's valve into the fast rinse position. Again look for a fast drain flow. Allow the softener to rinse for a few minutes to flush out any brine that may remain in the resin tank from the brining cycle test.

To return the softener's valve to the service position, press the RECHARGE button.

Softener Exploded View

### Softener Exploded View



### Softener Parts List

Key No	Part No.	Description
–	7112963	Distributor O-Ring Kit (includes Key Nos. 1-3)
1	same	O-Ring, 2-7/8" x 3-1/4"
2	same	O-Ring, 13/16" x 1-1/16"
3	same	O-Ring, 2-3/4" x 3"
4	7077870	Top Distributor
5	7105047	Repl. Bottom Distributor
–	7331177	Tank Neck Clamp Kit (includes 2 ea. of Key Nos. 6 & 7)
6	same	Clamp Section (2 req.)
7	same	Retainer Clip (2 req.)
7161849		Repl. Resin Tank, 9" x 40", Model WHES40
8		
7247996		Repl. Resin Tank, 10" x 40", Model WHES44
9	0502272	Resin, 1 Cu. ft.
10	7310202	Repl. Brine Valve Assembly
11	7327568	Float, Stem & Guide Assembly

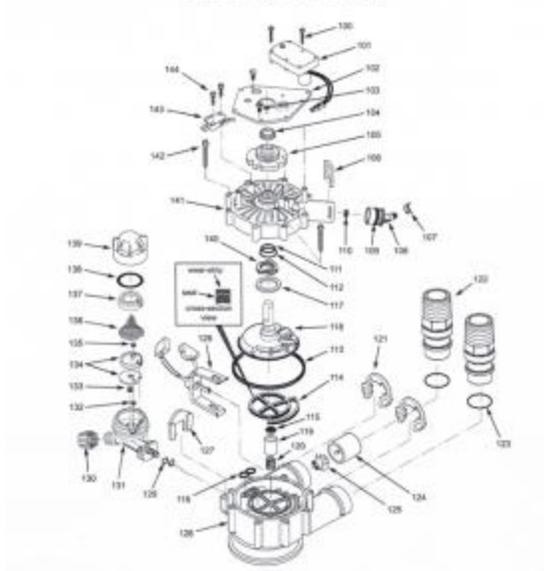
12	7337482	Power Supply, 28V DC
13	7335163	Repl. Electronic Control Board (PWA)
14	7267116	Top Cover & Faceplate Assembly, (order decal below)
7335553		Faceplate Decal

Key No.	Part No.	Description
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15	7262661	Salt Lid (order decal below)
7336622		Instruction Decal
16	7262768	Rim
17	7335901	Cover, Brinewell
18	7137824	Brinewell Assembly (including salt level decal)
–	7331258	Overflow Hose Adaptor Kit (includes Key Nos. 19-21)
19	same	Grommet
20	same	Adaptor Elbow
21		'1' Hose Clamp
–	7331664	Brinewell Mounting Hardware Kit (includes Key Nos. 22 & 23)
22	same	Wing Nut, 1/4-20
23	same	Screw, 1/4-20 x 5/8"
24	7264883	Repl. Brine Tank
25	7214383	Bypass Valve Assembly, 1", including 2 ea. Clips & O-Rings
26	7139999	Drain Hose, 20 ft.
7345469		Owner's Manual

Valve Exploded View

**Valve Exploded View**



**Valve Parts List**

Key No.	Part No.	Description
100	7224087	Screw, #8-32 x 1" (2 req.)
101	7286039	Motor (incl. 2 ea. of Key No. 100)
102	7231393	Motor Plate
103	0900857	Screw, #6-20 x 3/8" (3 req.)
104	7171250	Bearing
105	7283489	Cam & Gear
–	7331169	Drain Hose Adaptor Kit (includes Key Nos. 106-110)
106	same	Clip, Drain
107	same	Hose Clamp
108	same	Drain Hose Adaptor
109	same	O-Ring, 15/16" x 1-3/16"
110	same	Flow Plug, 2.0 gpm
–	7185487	Seal Kit (includes Key Nos. 111-116)
111	same	O-Ring, 5/8" x 13/16"
112	same	O-Ring, 1-1/8" x 1-1/2"

113	same	O-Ring, 4-1/2" x 4-7/8"
114	same	Rotor Seal
115	same	Seal
116	same	Seal, Nozzle & Venturi
117	7174313	Bearing, Wave Washer
118	7185500	Rotor& Disc
–	7342712	Drain Plug Kit, 1"
119	same	Plug, Drain Seal
120	same	Spring
121	7337589	Clip, 1", pack of 4
122	7342704	Installation Adaptor, 1", pack of 2, including 2 ea. Clips & O-Rings

Key No.	Part No.	Description
123	7337597	O-Ring, 1-1/16" x 1-5/16", pack of 4
–	7290931	Turbine & Support Assembly, including 2 O-Rings
124	same	Turbine Support & Shaft
125	same	Turbine
126	7309811	Wire Harness, Sensor
127	7081201	Retainer, Nozzle & Venturi
128	7171145	Valve Body
129	7342649	O-Ring, 1/4" x 3/8", pack of 2
130	1202600	Nut – Ferrule
–	7257454	Nozzle & Venturi Assembly (incl. Key Nos. 127,129 & 131-139)
131	7081104	Housing, Nozzle & Venturi
132	7095030	Cone Screen
133	1148800	Flow Plug, .3 gpm

134	7114533	Nozzle & Venturi Gasket Kit
7204362		Gasket Only
135	7084607	Flow Plug, .15 gpm
136	7146043	Screen
137	7167659	Screen Support
138	7170262	O-Ring, 1-1/8" x 1-3/8"
139	7199729	Cap
140	7175199	Wave Washer
141	7171161	Valve Cover
142	7342681	Screw, #10 x 2-5/8", pack of 8
143	7305150	Switch
144	7140738	Screw, #4-24 x 3/4" (2 req.)
	3479901	Adaptor Kit, 1" to 1-1/4"

To order repair parts call 1 (480) 969-7251, Monday – Friday, 8 am – 5 pm Mountain time.

\*SOURCE: Whirlpool 7345469 (REV. B 03/30/15)

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