

SERVICE MANUAL



WS-C206/WS-C208 Hobart Compact Water Softener Installation Instructions

WS-C206 WS-C208

- NOTICE -

This Manual is prepared for the use of trained Hobart Service Technicians and should not be used by those not properly qualified.

This manual is not intended to be all encompassing. If you have not attended a Hobart Service School for this product, you should read, in its entirety, the repair procedure you wish to perform to determine if you have the necessary tools, instruments and skills required to perform the procedure. Procedures for which you do not have the necessary tools, instruments and skills should be performed by a trained Hobart Service Technician.

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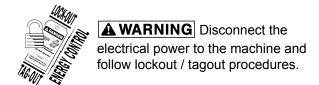
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INSTALLATION

INSTALLATION WS-C206/WS-C208



- Locate water supply line and appropriate drains for softener installation.
- 2. Install by-pass valving.



Fig. 1

3. Install high temperature prefilter if needed.



Fig. 2

4. Remove all items from shipping package.

NOTE: If installing a WS-208 install wheel kit. WS-C206 already has wheels installed.

Locate brass in/out adapters, 4 O-rings, and silicone seal lube.



Fig. 3

6. Locate connector hoses and apply 2 to 3 wraps of Teflon tape to the male threads.

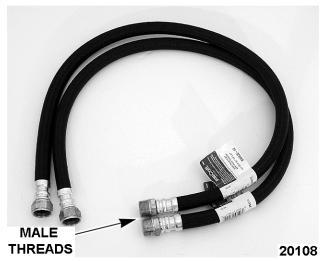


Fig. 4

7. Thread the brass in/out adapters tightly onto the threaded ends of the connector hoses.



Fig. 5

8. Install one O-Ring into each groove of the brass adapter.



Fig. 6

9. Apply a small amount of seal lube evenly onto each O-ring.



Fig. 7

10. Remove the pin and bracket from the softener in/out port area.



Fig. 8

11. Install the brass adapters into the in/out ports and secure by reinstalling the bracket and pin.



Fig. 9

12. The female end of the connector hoses is designed to thread onto 3/4" pipe thread. Perform appropriate plumbing to provide connections from the water supply to the inlet hose/port and from the outlet port/hose.

NOTE: The inlet port is identified with an arrow pointing towards the softener controls. The outlet port is identified with an arrow pointing away from the softener controls. These connections may be made before the pressure reducing valve.

13. Insert tubing provided into the drain port on the back of the cabinet and run it to an appropriate drain. Be sure to provide a "air gap" between the end of the tubing and the top of the drain.

NOTE: Drain line length should not exceed 8 feet vertical and 30 feet horizontal from the softener.

14. Insert tubing provided into the overflow port on the back of the softener and run drain lower than the cabinet connection to provide a gravity drain in the event of a internal cabinet leak.

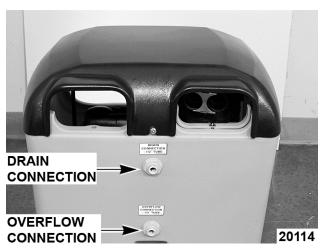


Fig. 10

- 15. Review the meter disc selection chart and the water analysis provided. If no water analysis is provided test the water supply.
- To test the water supply, use the water analysis test kit available through Pro Products Inc. The recommended kit is #2401 Field Analysis Kit. To order the test kit contact Pro Products at 800-285-9176 or visit www.ProProducts.com.
- 17. Determine the correct number disc. <u>DISC SELECTION WS-C206/WS-C208</u>

NOTE: Both the WS-C206 and the WS-C208 have a #4 meter disc installed at the factory. If this is not the correct disc for a given application, locate the meter disc kit and follow instructions for DISC
REPLACEMENT WS-C206/WS-C208

- 18. Remove brine valve assembly from cabinet to set float cup.
- To remove brine valve assembly, disconnect tubing from valve elbow by holding the collet and pulling tubing straight away. Remove brine valve from softener cabinet.

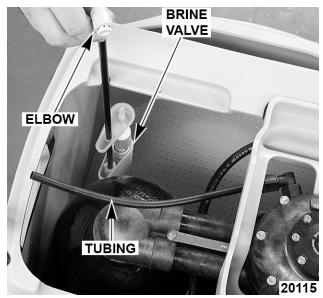


Fig. 11

- 20. Remove the brine valve assembly by lifting straight up.
- 21. Set it on a flat surface, to measure height of float cup.
- 22. Measure from bottom of brine valve to top of float cup.

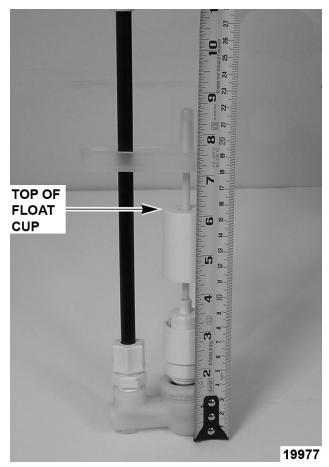


Fig. 12

Brine Valve Settings							
Unit	Brine Setting	Float Cup Height					
WS-C206	.5 lb.	5.25"					
WS-C206	1.0 lb.	6.25"					
WS-C208	1.0 lb	5.25"					
WS-C208	1.4 lb	5.75"					

23. After the adjustments have been made to the float cup, reinstall brine valve into the cabinet.

NOTE: Do not drop brine valve into drum. Dropping may lower float cup, resulting in an improper setting.

24. Add a clean grade of salt at this time. Higher grades of Pelletized Salt for impurities and solubility should be used.

NOTE: Do not use rock salt or solar salt.

- 25. Open inlet valve slowly allowing system to pressurize.
- 26. Water and air will be expelled from drain until system is completely pressurized.
- 27. A manual regeneration should be started to purge air and color from softening system. This is done by pushing down on actuator with a Phillips screwdriver and rotating clockwise slowly until pressure is felt.
- 28. Continue slowly until internal water flow is heard at softener valve. The softener will automatically run through a regeneration. This process should be repeated in 12 to 15 minutes to flush other resin tank.
- 29. Check for plumbing leaks.
- 30. Check unit for proper operation.

DISC REPLACEMENT

DISC REPLACEMENT WS-C206/ WS-C208

1. Remove screws and cap cover from level one.

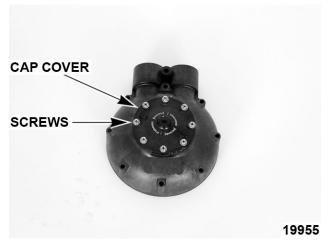


Fig. 13

2. Remove balance piston.

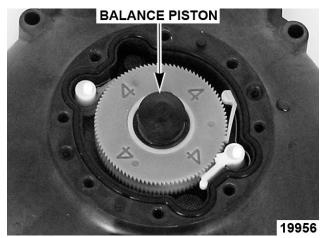


Fig. 14

3. Remove balance piston o-ring and balance piston spring.

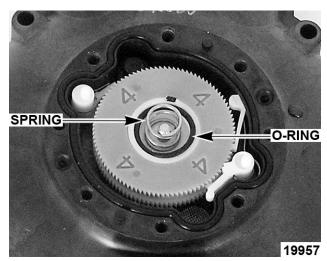


Fig. 15

4. Remove meter drive pawl.

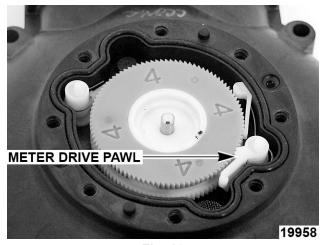


Fig. 16

5. Remove meter disc.

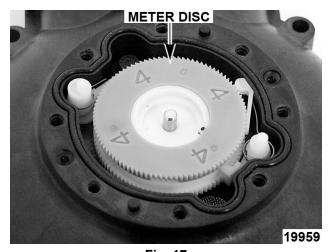


Fig. 17

6. Install correct meter disc and reassemble in reverse order.

NOTE: Make certain all components are correctly installed.

NOTE: Be certain to start cap screws by hand rotating backwards until screw drops into thread then tighten. An alternating, crossing pattern should be used while tightening cap screws to ensure correct cap fit.

DISC SELECTION

DISC SELECTION WS-C206/WS-C208

The amount of hardness removed (in compensated gpg) will be based on the amount of brine and the meter disc selected.

- Test water supply for hardness and iron content. Use water analysis test kit available through Pro Products
 Inc. The recommended kit is #2401 Field Analysis Kit. To order test kit contact Pro Products at 800-285-9176
 or visit www.ProProducts.com.
- 2. Determine the compensated hardness for raw water.
 - A. Hardness value in gpg.
 - B. Ferrous iron value in ppm multiplied by 3.
 - C. Add values together.
- 3. Salt setting is predetermined by height of float cup. Float cup setting is listed in Specification Table.

<u>Specifications</u>	WS-C206	WS-C206
Salt usage / generation	0.5 lbs.	1.0 lbs.
Capacity	1,746 grains	2,527 grains
Efficiency	3,492 gr./lb.	2,527 gr./lb.
Dosing	2.7 lbs./cu. ft.	5.5 lbs./cu. ft.
Float cup setting	5.25"	6.25"

<u>Specifications</u>	WS-C208	WS-C208		
Salt usage / generation	1.0 lbs.	1.4 lbs.		
Capacity	4,094 grains	4,818 grains		
Efficiency	4,094 gr./lb.	3,442 gr./lb.		
Dosing	2.5 lbs./cu. ft.	3.5 lbs./cu. ft.		
Float cup setting	5.25"	5.75"		

WS-C206 Disc Selection							
1	2	3	4	5	6	7	8
			40	40	4.5	40	00
2	5	8	10	13	15	18	20
4		44	4.5	40	22	0.7	20
4	8	11	15	19	23	27	30
583	282	194	146	117	97	83	73
0.4	0.4	0.4	0.4	0.4	0.0	F 4	4.4
9.1	9.1	9.1 9.1 9.1	9.1	0.4	0.0	5.4	4.4
	2 4	2 5 4 8 583 282	2 5 8 4 8 11 583 282 194	2 5 8 10 4 8 11 15 583 282 194 146	2 5 8 10 13 4 8 11 15 19 583 282 194 146 117	2 5 8 10 13 15 4 8 11 15 19 23 583 282 194 146 117 97	2 5 8 10 13 15 18 4 8 11 15 19 23 27 583 282 194 146 117 97 83

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WS-208 Disc Selection							
1	2	3	4	5	6	7	8
		4.4	40	00	0.7	20	25
4	9	14	19	23	21	30	35
	11	17	00	0.7	20	25	10
5		17	22	21	32	35	40
732	366	244	183	146	122	105	92
40.0	40.0	40.0	40.0	40.0	0.0	0.7	
10.2	10.2	10.2	10.2	10.2	8.3	0.7	5.5
	4 5	4 9 5 11 732 366	4 9 14 5 11 17 732 366 244	4 9 14 19 5 11 17 22 732 366 244 183	4 9 14 19 23 5 11 17 22 27 732 366 244 183 146	4 9 14 19 23 27 5 11 17 22 27 32 732 366 244 183 146 122	4 9 14 19 23 27 30 5 11 17 22 27 32 35 732 366 244 183 146 122 105