

**OPERATING INSTRUCTIONS  
MAINTENANCE INSTRUCTIONS  
and  
PARTS LIST**

**DOMESTIC MODEL NOS. 8707, 8710, 8711,  
8712, 8713, 8714, 8715, 8716 and 8717**

**INTEGRITY  
Brewing Systems  
OWNER'S MANUAL**



**NOTE: This manual is a recreation of an archive document. Some models may currently be obsolete. Part numbers and specifications may have changed.**

FORM NO. 8712M Rev. 2

**BLOOMFIELD  
WELLS BLOOMFIELD**

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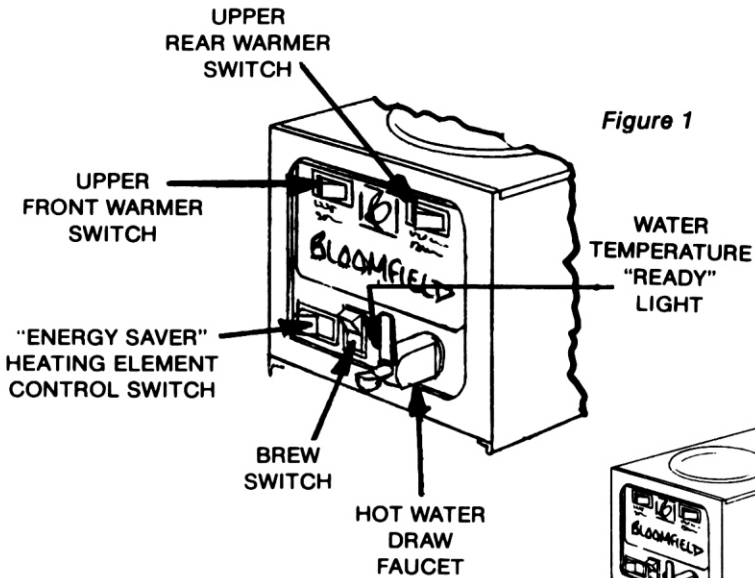


Figure 1

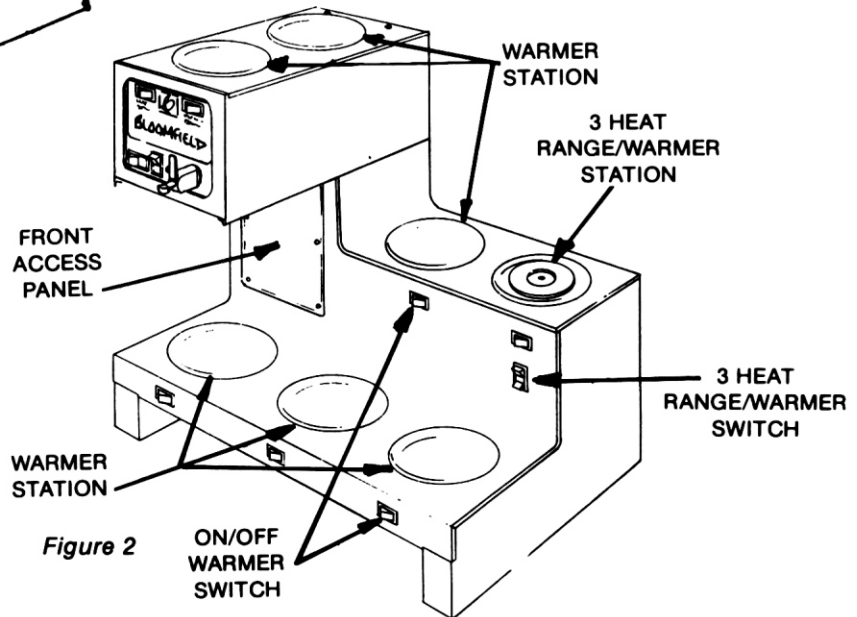


Figure 2

The INTEGRITY BREWERS have been designed with adjustment flexibility to cover a wide spectrum of customer needs. Adjustments on the running thermostat and inlet timer are simple adjustments easily accomplished by the purchaser, but **NOT COVERED UNDER ANY WARRANTY SERVICE AGREEMENT.** Brewers must be installed in accordance with installation instructions in the owner's manual for the warranty to be valid.

**WARNING:**  
DO NOT PLUG IN OR ENERGIZE THIS UNIT UNTIL INSTALLATION INSTRUCTIONS ARE READ AND FOLLOWED.

# PRE-INSTALLATION INSTRUCTIONS

## GUIDE TO THE INITIAL INSTALLATION AND TANK FILLING SEQUENCE

- Step 1. Check the Energy Saver Switch, to be sure it is in the off position. It must remain off from Steps #1 thru #8. The Energy Saver Switch controls the main water heating element that must remain off until the tank is filled with water, (Thru Step #8).
2. Connect water supply line to unit, see instructions on Page 2.
3. Connect electric source to unit, see instructions on Page 3.
4. Slide Brew Chamber in place and place empty Decanter on Warmer under it.
5. Turn ON water and electric at source.
6. Press start button, wait two (2) minutes and repeat.
7. Water will start flowing during the Third Cycle (Second Cycle on Water Faucet Models), indicating tank is filled with water.
8. After water flow stops, remove, empty, and replace the Decanter under the Brew Chamber.
9. NOW — Press the Energy Saver Switch to the ON Position, and leave it ON.
10. Proceed with the balance of electrical instruction #3, #4, #5, etc., on Page 3.

## CONNECTING WATER SUPPLY LINE TO UNIT

### WARNING:

DO NOT PLUG IN OR ENERGIZE THIS UNIT UNTIL INSTALLATION INSTRUCTIONS ARE READ AND FOLLOWED.

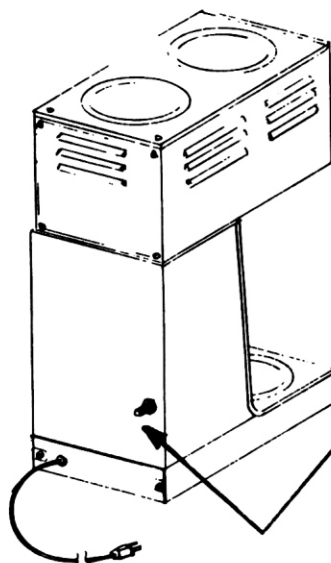
Unit must be installed on a water line with pressure between 20 P.S.I. and 90 P.S.I. If water pressure does not fall into this range, a water regulator should be installed.

### CONNECTING WATER SUPPLY TO UNIT:

An adequate form of back flow prevention must be installed in water supply line. (NSF Standard F-4, item 4.31)

NOTE: Line connections to machine must conform to local codes.

### A. ALL INTEGRITY AUTOMATIC MODEL NOS. 8707, 8710, 8711, 8712, 8713, 8714, 8715, 8716 and 8717.



**IMPORTANT:** Flush water line before installing machine. Machine should be connected to COLD WATER LINE.

AUTOMATIC INTEGRITY BREWERS are supplied with water line strainer, which has to be installed between the machine and water supply line. Observe arrow on strainer for direction of flow. For installation, use 1/4" copper tubing and fittings. A water shut-off valve must be installed in the supply line (not included). For connecting of the brewer to water supply line, refer to Figure No. 3 on Page No. 2. After connecting water supply line to BREWER, proceed as follows:

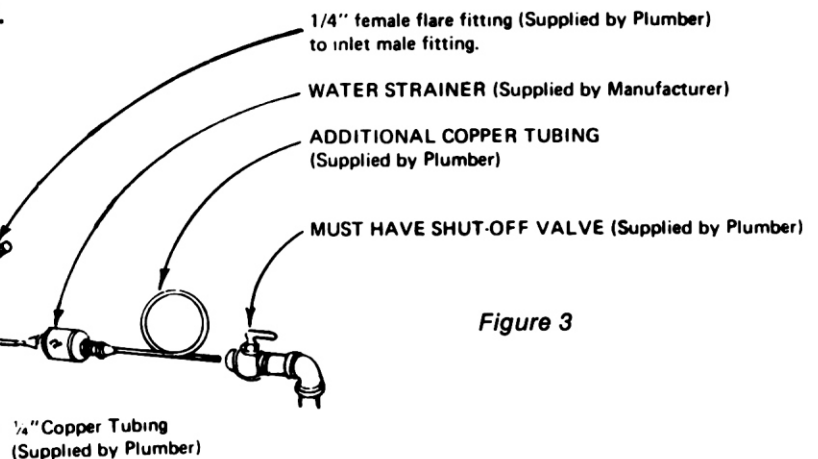


Figure 3

The National Sanitation Foundation requests a provision be made in the incoming water line for flexibility. This is necessary to allow tilting or moving the machine for proper cleaning underneath, etc. A tightly coiled length of copper tubing located on either side of the water strainer would help comply with this request.

# ELECTRICAL INSTALLATION

- a. INTEGRITY BREWER MODEL NOS. 8713 and 8712 equipped with plug and electric cord for 120 Volt outlet capable of carrying 15 Amps - 1800 Watts.
- b. INTEGRITY BREWER MODEL NOS. 8710 and 8711 equipped with plug and electric cord for 120 Volt outlet capable of carrying 20 Amps - 2300 Watts. (Plug is NEMA reference #5-20P)

The power cord of this unit conforms to current - NEMA electrical codes and should only be plugged into a 20 AMP. receptacle for proper source power and electrical safety. The installer or electrician must make certain the correct wall receptacle is used. Receptacle & Plugs are available at most hardware facilities identified by the NEMA Code Numbers shown.

NEMA  
REF.  
"PLUG"  
#5-20P



NEMA  
REF.  
RECEPTACLE  
#5-20R



**IMPORTANT:** Power supply connecting cords for the following units must be:

1. For 20 AMP. units use #12 AWG wire.
2. For 30 AMP. units use #10 AWG wire.

Note: Use copper wire only, suitable for 75 deg. C. Wire, plug and connector must be supplied by ELECTRICIAN.

NOTE: Line connections to machine must conform to local codes. See Figure 4, and wiring note.

- c. INTEGRITY BREWER MODEL NOS. 8715 and 8714.  
30 Amps - 5100 Watts - 115/230 Volts or 120/208 Volts - AC - Single Phase.
- d. INTEGRITY BREWER MODEL NOS. 8716 and 8717.  
20 Amps - 3850 Watts - 115/230 Volts or 120/208 Volts - AC - Single Phase.
- e. INTEGRITY BREWER MODEL NO. 8707.  
30 Amps - 6000 Watts - 115/230 Volts or 120/208 Volts - AC - Single Phase.

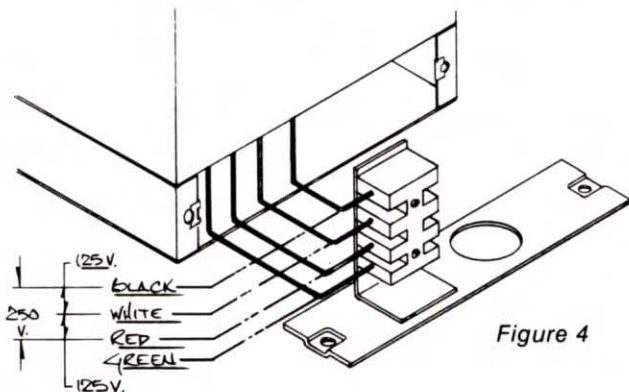


Figure 4

**IMPORTANT:** For power supply, use #10AWG wire suitable for 75°C. Use copper wire ONLY. Wire, plug and connector must be supplied by ELECTRICIAN.

1. Recheck at this point—the source power switch and the energy saver switch on the unit front panel must be in the "OFF" position.
2. For units requiring electrician installed power cord, remove two (2) screws from rear access panel of brewer for access to the installation junction block. All wiring must be in accord with local electrical codes. See Figure 4.  
The unit is now connected to water and electricity. Continue to follow steps #4 thru #10 of pre-installation guide instructions before continuing on to the next step #3 in the electrical installation.
3. Initial heating time, when starting the INTEGRITY BREWERS, will range from approximately 18 minutes for 120 volt, low wattage units to 6 minutes for the 120/240 volt, high wattage units. The GREEN signal light will turn on when water reaches brewing temperature.
4. When GREEN signal light turns on, press START switch. Hot water will start to flow immediately and assure that the tank and system are full of water. After water stops flowing, remove and empty decanter; then place it back under brew chamber.
5. Repeat Step 4. After water stops flowing, you should have a full decanter of water—60 ounces. A water flow control valve and factory pre-set timer, control the exact amount of water to be delivered during each brewing cycle. If, after completion of Step 4, the decanter is not full—60 ounces of water, or tends to overflow, proceed as follows:
  - a. Check water supply line pressure. INTEGRITY BREWER will not operate properly if the line pressure is below 20 PSI. (You may obtain your PSI pressure by inserting a gauge in the incoming water line at the back of the unit.)
  - b. Unplug cord from electric outlet or turn power off at source.
  - c. Remove plug button from access hole with knife blade. See Figure 8 on Page 4.
  - d. Turn timer adjusting knob: (The timer is very sensitive, a few degrees of turn at a time.)
    1. Clockwise to increase the volume of water to be dispensed during brewing cycle.
    2. Counter-clockwise to decrease the volume of water.
  - e. Plug cord into electric outlet or turn power on at source.
  - f. Repeat Step 4.

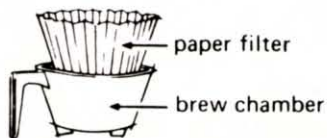
Repeat Steps B through F until desired amount of water will be dispensed during a brewing cycle. After adjustment of machine has been completed and the GREEN signal light is ON, you are ready to brew coffee.



# BREWING OF COFFEE

1. Remove brew chamber from under spray head and place one (1) BLOOMFIELD paper filter into brew chamber. Add your choice of a pre-measured package of FINE GRIND coffee. Shake brew chamber to level off coffee. NOTE: if stronger coffee is desired, use more (to taste) of fine grind coffee. Slide brew chamber in place.

Figure 5



2. Place empty decanter under brew chamber. **IMPORTANT:** Always use empty decanter before starting a brewing cycle.
- 3a. ON ALL AUTOMATIC, Models of INTEGRITY BREWERS, press brew switch.

- 3b. Hot water will start spraying over coffee grounds in brew chamber and coffee will start filling the decanter. When coffee stops flowing, the freshly brewed coffee is completed.
4. Remove brew chamber from INTEGRITY and discard paper filter and used grounds.
5. When GREEN signal light turns on again, Brewer will be ready for another brewing cycle. To keep your coffee warm, the INTEGRITY BREWERS are equipped with electric warmers which are activated by a switch. A RED signal light will glow, indicating that warmer is "ON".

### IMPORTANT:

1. Warmers should be turned off when not in use.
2. Do not leave empty decanter on warmer that is "ON".
3. Do not leave coffee on warmer overnight.

## SERVICE INSTRUCTIONS — DETAILED ILLUSTRATIONS

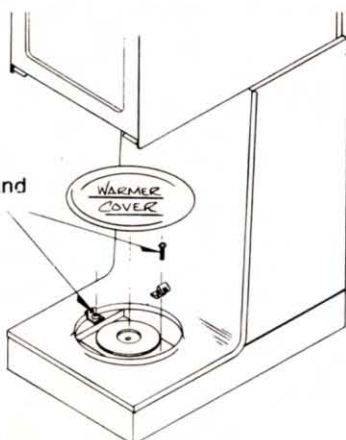
### ALL MODELS, 3 STATION UNITS:

To remove front panel for service, spin warmer cover plate counter-clockwise to remove and this will expose two (2) screws. Remove screws and clips. Lift off panel.

**7 STATION UNITS:** - Remove front panel from column for lower service area. See Figure 2.

Remove (2) Screws and (2) Clips

Figure 6



- b. Using a dial-thermometer

1. Wait until ready light comes on.
2. Disconnect brewer from electrical outlet.
3. Remove top cover.
4. Remove breather tube from tank lid.
5. Place dial thermometer 5" into water and read the temperature.

**IMPORTANT: Tank thermostat should be adjusted so that water temperature never exceeds 203° F.**

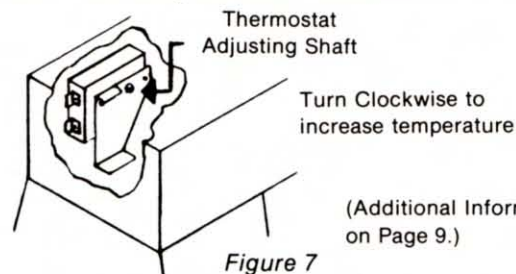


Figure 7

### RUNNING THERMOSTAT ADJUSTMENT - ALL MODELS

Whenever running thermostat adjustment becomes necessary, proceed as follows:

1. Disconnect cord from electric outlet.
2. Remove two (2) screws from top cover.
3. Slide cover back, disconnect the (2) plugs and all switch wires and lift off cover.
4. Turn thermostat adjusting shaft. See Figure 7. For proper operation of the unit and optimum extraction of coffee, thermostat should cycle off between 190° F. and 200° F.

To check temperature, unit must be energized:

- a. Using a mercury thermometer
  1. Remove brew chamber and spray head.
  2. Leave empty decanter on lower warmer.
  3. When ready light comes ON, press brew button.
  4. A stream of hot water will come out of brewer. Place the bulb of the thermometer into the stream and read the temperature.

### ALL MODELS AUTOMATIC BREWERS

To adjust amount of water dispensed during each brew cycle, adjust timer cycle duration.

### ALL MODELS—TIMER ADJUSTMENT

1. Remove brew chamber.
2. Remove timer adjustment plug button.
3. To INCREASE time of water flow, turn timer adjusting knob clockwise. To DECREASE time of water flow, turn timer adjusting knob counter-clockwise. Factory setting is 38 seconds.
4. Replace plug button and brew chamber.

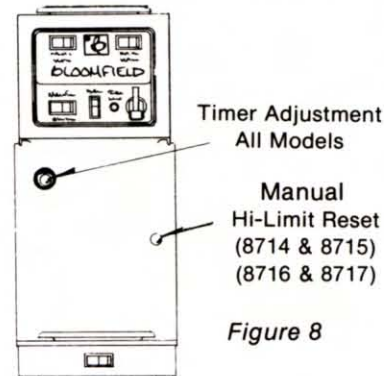


Figure 8



### **To Replace Water Coil, and/or Heating Element Assembly.**

1. Disconnect unit from power supply and shut off water.
2. Remove two (2) screws from rear of top Cover.
3. Slide cover back, disconnect the two (2) plugs and the wires from the upper warmer switches. Set cover aside.
4. Disconnect water inlet hose and pull out inlet elbow and vent tube from basin pan.  
NOTE: On water faucet models, remove two (2) copper tubing connections.  
A. Water inlet connection at tank lid.  
B. Water outlet connection at faucet shank.
5. Remove basin pan, separate metal outlet tube at elbow.
- 6a. Disconnect wires from thermostat ONLY.
- 6b. Disconnect wires from heating element. On 120 Volt units, also disconnect wires from the high limit control.
7. Loosen center screw on tank hold down bracket.
8. Remove hold down bracket by sliding the short slotted end off of the locking stud.
9. Remove cover assembly from tank by lifting it out.

### **To Remove Heating Element Assembly**

- a. Remove tank lid assembly - see Steps 1 thru 9 of "To Replace Heating Element Assembly".
- b. Remove two (2) hex nuts and pull out heating element from mounting holes in cover.

### **To Replace Water Coil on Water Faucet Models**

- a. Remove tank lid - see Steps 1 thru 9.
- b1. Remove two (2) nuts and pull water coil from mounting holes in cover. (For 8712 ONLY).
- b2. Heating element must be removed. Then remove two (2) hex nuts holding water coil to cover, and pull coil from mounting holes in cover, (For 8707, 8710, 8714 & 8716).

### **To Replace Thermostat**

- a. Disconnect power cord or turn off power at source.
- b. Remove two (2) screws from rear of top cover.
- c. Slide cover back, disconnect two (2) plugs and the wires from the upper warmer switches. Set cover aside.
- d. Disconnect wires from thermostat.
- e. Remove two (2) screws securing thermostat to bracket.
- f. Loosen and free up jam nut from fitting, securing thermostat capillary line into the top of the cover.
- g. Lift out the thermostat, capillary tube and sensing assembly from the cover.

### **IMPORTANT:**

- A. When remounting a thermostat capillary sensing unit thru the cover, be sure a new seal washer is placed below the fitting on the capillary line. Push the capillary line thru the cover until the fitting seats. Tighten the capillary locking nut enough to insure no water leakage. Extreme tightening is not necessary.
- B. When replacing thermostat, you should also replace the seal washer.

- C. When replacing heating element assembly or water coil, you should also replace the gaskets. (Refer to Parts List).
- D. Before setting cover assembly into the tank, make sure the tank cover gasket is properly seated in the flange of the cover.

### **TO REPLACE READY LIGHT**

1. Disconnect cord from electrical outlet/turn off power source.
2. Using thin screwdriver, pry out pilot light from mounting hole; disconnect leads.
3. Replace pilot light following reverse procedure.

### **TO REPLACE WARMER AND BREW SWITCHES**

1. Disconnect cord from electrical outlet/turn off power source.
2. Using thin screwdriver, pry out switch from mounting hole; disconnect leads.
3. Replace switch following reverse procedure.

### **TO REPLACE WARMER ELEMENTS**

1. Disconnect cord from electrical outlet/turn off power source.
2. Turn warmer cover plate counter-clockwise until it unscrews from bracket.
3. Lift warmer element off the mounting bracket; disconnect leads.
4. Replace warmer element following reverse procedure.

### **TO REPLACE TIMER ASSEMBLY**

1. Disconnect cord from electrical outlet/turn off power source.
2. Remove front panel. See Figure 6.
3. Remove timer knob and the three (3) screws holding timer to bracket.
4. Disconnect timer wires.
5. Replace timer following reverse procedures.

### **TO REPLACE SOLENOID VALVE/FLOW CONTROL** (see Figure 12).

1. Disconnect cord from electrical outlet/turn off power source.
2. Turn off water supply.
3. Remove front panel. (see Figure 6).
4. Remove water connection and nut holding inlet fitting to back of machine.
5. Lift Solenoid slightly and slide forward.
6. Remove rubber tube and, if a faucet model, the flare connection from the "T" inlet fitting.
7. Replace solenoid valve by following reverse procedure.

### **CLEANING THE SPRAYHEAD**

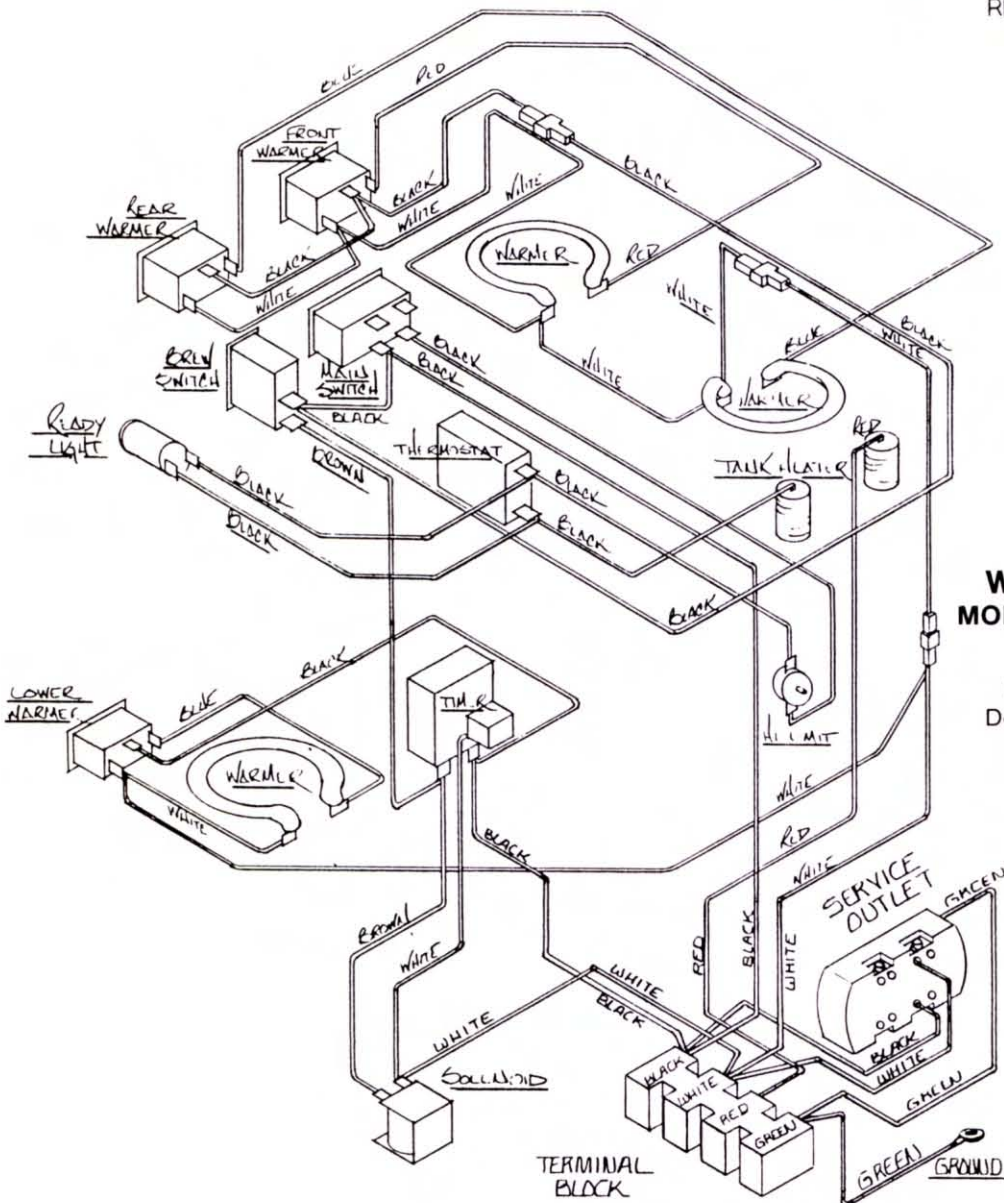
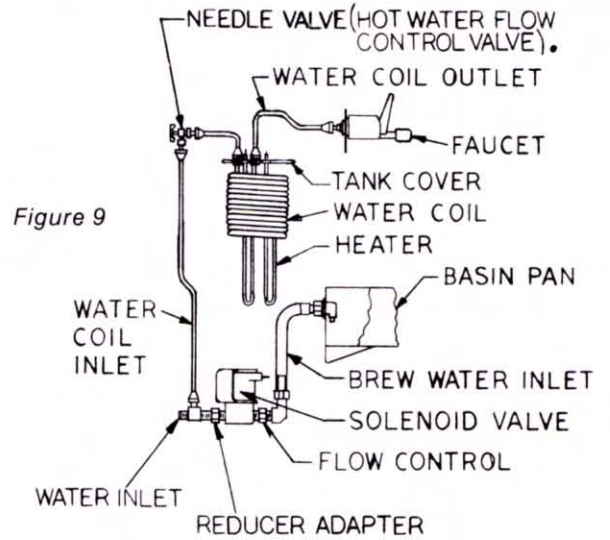
1. Remove brew chamber.
2. Rotate sprayhead ears out of locking cup by pushing up as you rotate it out of locking groove.
3. Clean lime and wipe oil from both sides of sprayhead, being sure all sprayhead holes are fully open.
4. Clean entire area over brew chamber with a damp cloth.
5. Replace sprayhead, being sure sprayhead gasket is in place in cup. Sprayhead tabs must be in the UP position. Rotate fully into locking grooves.

# WATER FLOW DIAGRAM

MODEL NOS. 8707, 8710, 8712, 8714 and 8716

Sequence of Operations:

1. Pushing brew switch energizes solenoid valve, allowing water to flow into basin pan and then hot water tank. The length of time the solenoid valve is energized is controlled by the timer.
2. The water going into the water coil which feeds the faucet, is not controlled by the solenoid valve. This portion of the system is always under pressure and is controlled by the faucet.
3. The water coil is submerged in the hot water tank and draws heat from the surrounding water.

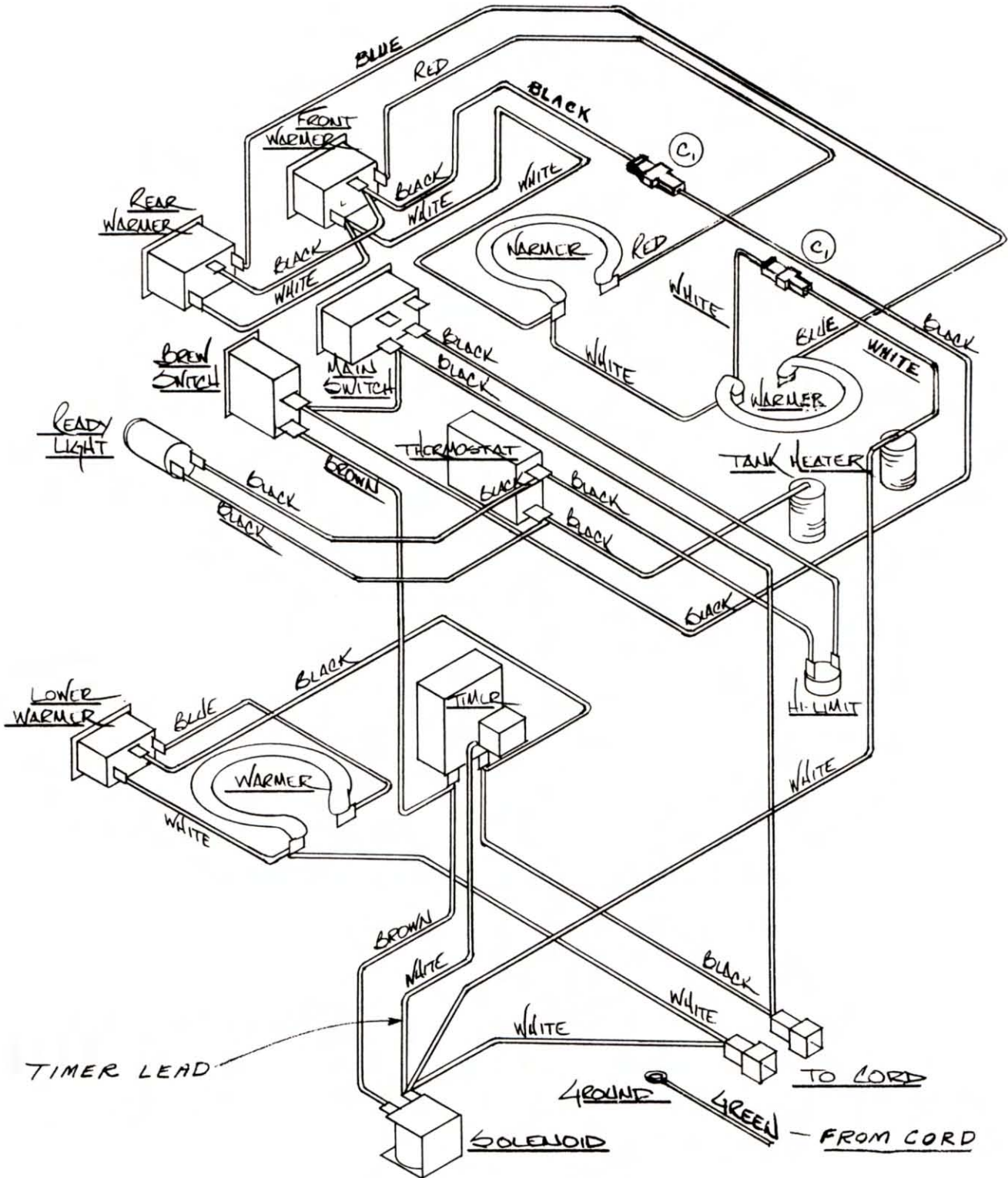




# WIRING DIAGRAM

FOR

MODELS 8710, 8711, 8712 & 8713

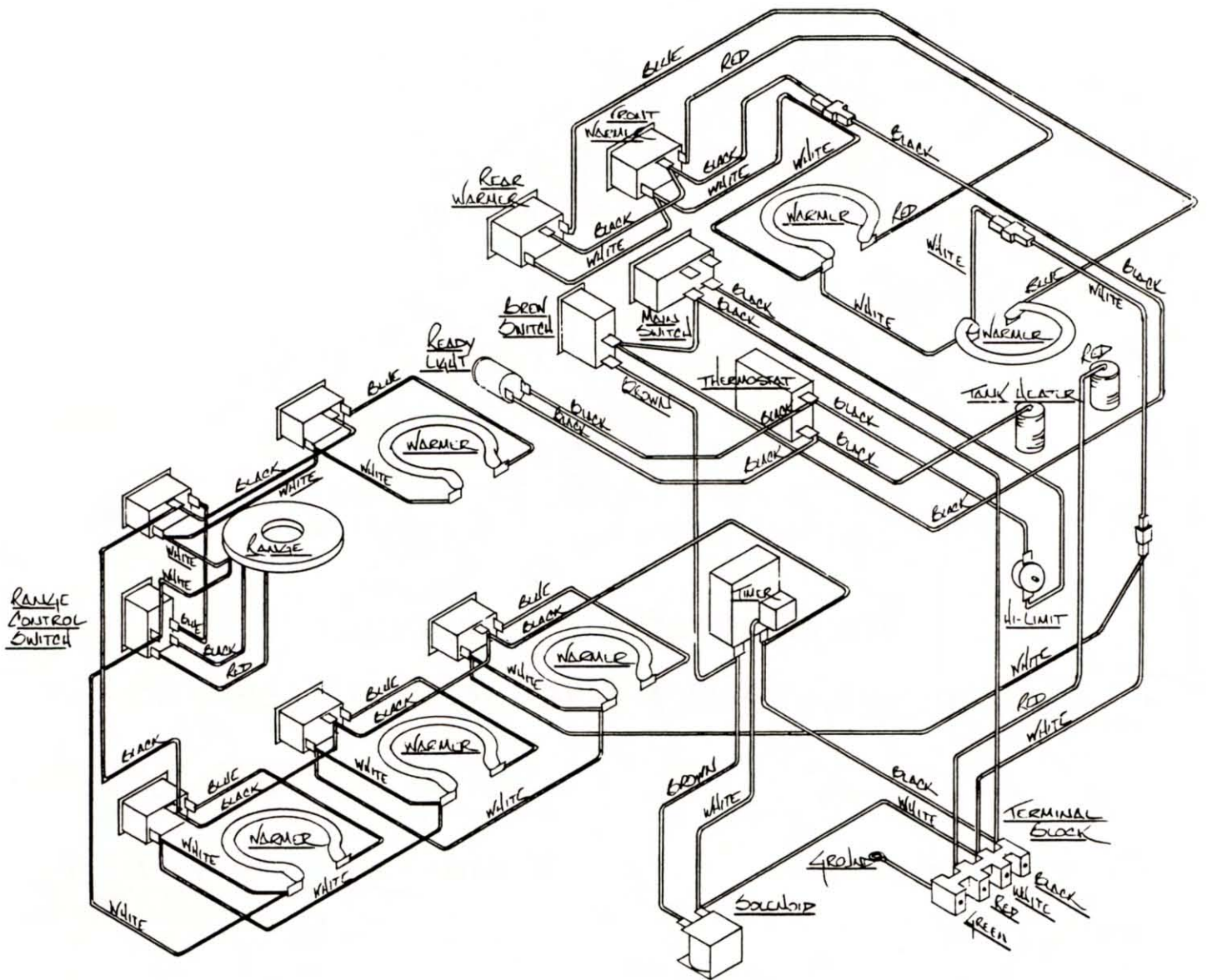




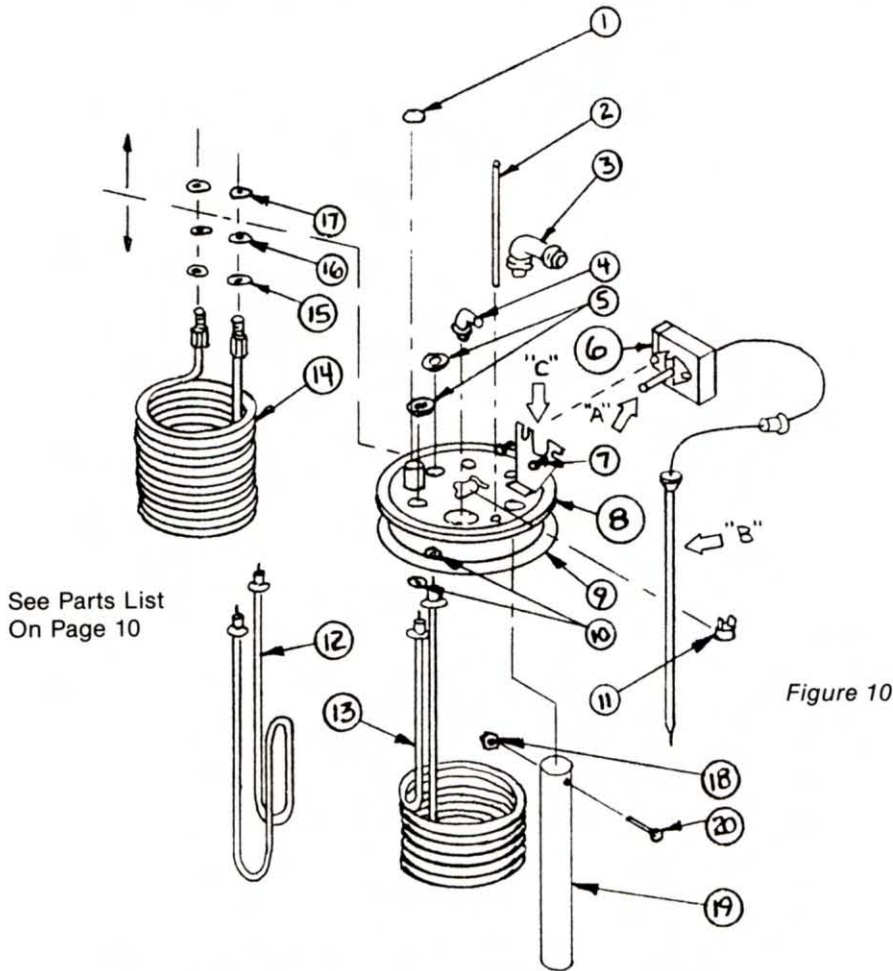
# WIRING DIAGRAM

FOR

MODEL 8707



# TANK COVER ASSEMBLY — EXPLODED VIEWS



## THERMOSTAT AND TANK COVER

### IDENTIFICATION, SERVICE AND REPLACEMENT INFORMATION

In this series of units, the thermostat is completely removable from the top of the tank cover, without removing the tank cover assembly from the unit.

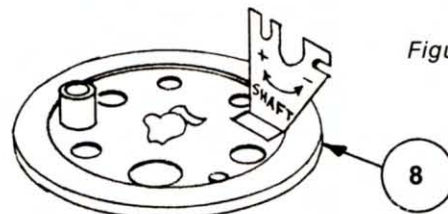
#### THERMOSTAT - Part #8512-51

- A. Has a short shaft for temperature level control, see Arrow "A".
- B. The shaft is turned **CLOCKWISE to INCREASE** water temperature level and turned counter-clockwise to decrease the heat level.
- C. This thermostat has an eleven inch (11") long sensing bulb, see Arrow "B", that is sensitive to the total tank water temperature.
- D. To aid in mounting this thermostat, the thermostat mounting bracket, located on the tank cover, has been changed to permit the thermostat shaft and screws to slide into slots instead of mounting holes, see Arrow "C".

- E. To assist the service field, the thermostat mounting bracket (See Sketch) has a thermostat shaft rotation guide stamped into the metal.

A plus symbol, to indicate clockwise rotation of the thermostat shaft for a desired higher heat level and a minus symbol to represent a counter-clockwise rotation for a low heat level.

To match the style of thermostat to the imprinted rotation directions, the word SHAFT is also imprinted into the metal.





# PARTS LISTING FOR TANK COVER ASSEMBLY

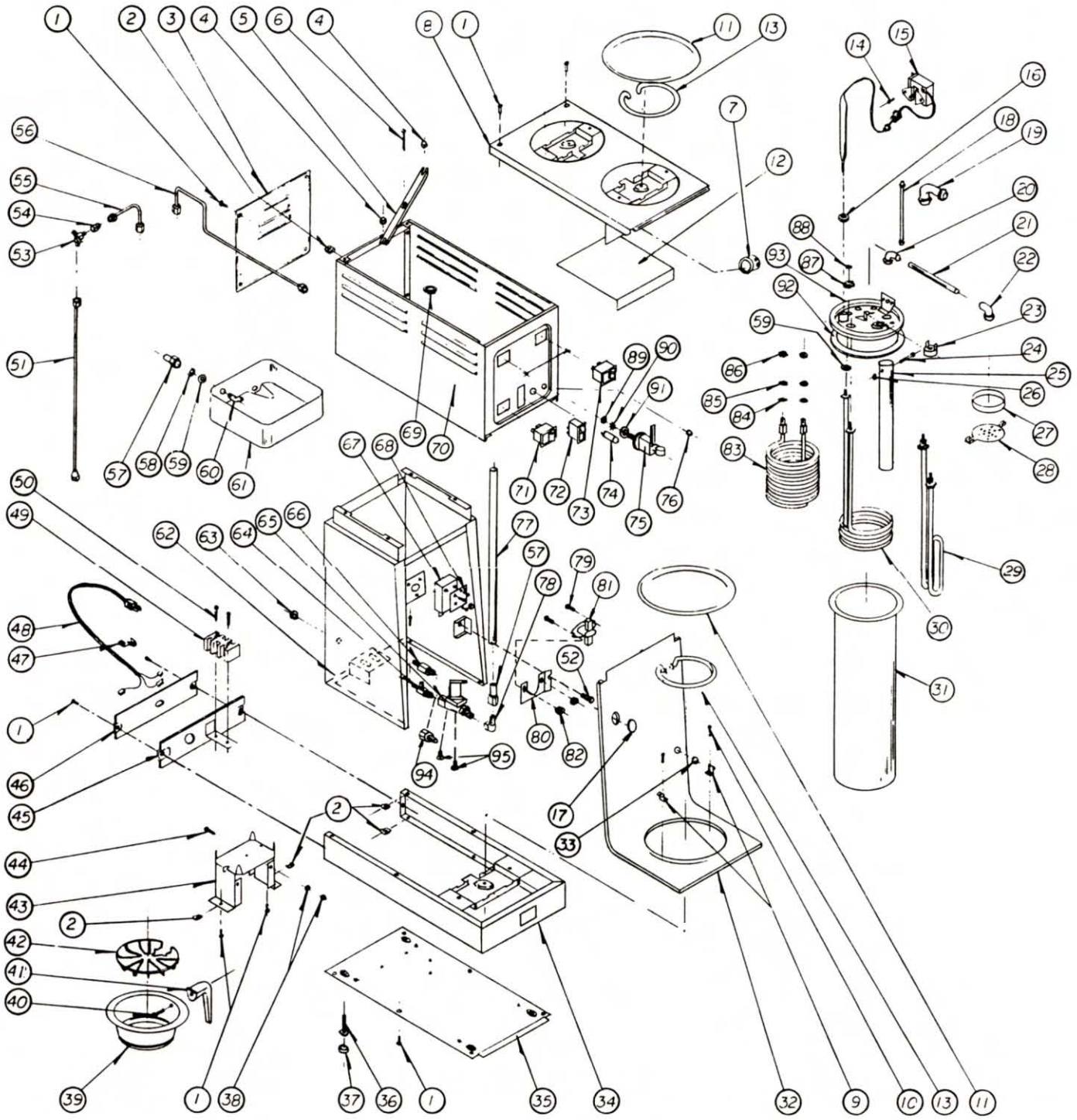
Reference — See Exploded View on Page 9.

Ref. No.	Part No.	Description	Model(s) Used On
1	8512-41	Seal Washer	All
2	8043-15	Vent Tube	All
3	8043-8	Inlet Elbow	All
4	8043-11	Outlet Elbow	All
5	8043-28	1/2-20 Hex Nut	All
6	8512-51	Thermostat	All
7	3-100	#6-32 x 1/4 Round Head Screw	All
8	8512-45	Tank Cover Plate Only	8713
	8514-68	Tank Cover Plate Only	8707, 8710, 8712, 8714, 8716
	8552-180	Tank Cover Plate Only	8711, 8715, 8717
9	8043-12	Tank Cover Gasket	All
10	8043-30	Heating Element Gasket	All
11	8043-11	Hi-Limit Thermostat	8710, 8711, 8712, 8713
12	8043-14	Heating Element 120V/1500W	8712, 8713
13 a.	8549-1	Heating Element 120V/2000W	8710, 8711
13 b.	8716-1	Heating Element 230V/3500W	8716, 8717
13 c.	8552-1	Heating Element 230V/4800W	8707, 8714, 8715
14	8540-6	Hot Water Coil	8707, 8710, 8712, 8714, 8716
15	8551-53	7/16 ID x 3/4 OD Washer	8707, 8710, 8712, 8714, 8716
16	8942-33	Seal Gasket	8707, 8710, 8712, 8714, 8716
17	8941-21	7/16-20 Hex Nut	8707, 8710, 8712, 8714, 8716
18	8543-74	#4-40 Hex Nut	All
19	8043-24	Water Inlet Tube	All
20	8543-73	#4-40 x 1 1/2" Pan Head Screw	All

## COMPLETE SPARE TANK COVER ASSEMBLY IDENTIFICATION

Part No.	Description	Model(s) Used On
8543-300	Spare Lid Assembly - 120V/1500W - No Coil W/All Parts Mounted to Lid, includes Part Nos. 1 thru 12 and Nos. 18 thru 20.	8713 (120V/1500W)
8549-300	Spare Lid Assembly - 120V/2000W - No Coil W/All Parts Mounted to Lid, includes Part Nos. 1 thru 11 plus No. 13A and Nos. 18 thru 20.	8711 (120V/2000W)
8541WF-300	Spare Lid Assembly - 120V/1500W - W/Coil W/All Parts Mounted to Lid, includes Part Nos. 1 thru 12 and Nos. 14 thru 20.	8712 (120V/1500W)
8549WF-300	Spare Lid Assembly - 120V/2000W - W/Coil W/All Parts Mounted to Lid, includes Part Nos. 1 thru 11 plus No. 13A and Nos. 14 thru 20.	8710 (120V/2000W)
8716-300	Spare Lid Assembly - 230V/3500W - W/Coil W/All Parts Mounted to Lid, includes Part Nos. 1 thru 10 plus No. 13B and Nos. 14 thru 20.	8716 (230V/3500W)
8717-300	Spare Lid Assembly - 230V/3500W - No Coil W/All Parts Mounted to Lid, includes Part Nos. 1 thru 10 plus No. 13B and Nos. 18 thru 20.	8717 (230V/3500W)
8552-300	Spare Lid Assembly - 230V/4800W - W/Coil W/All Parts Mounted to Lid, includes Part Nos. 1 thru 10 plus No. 13C and Nos. 14 thru 20.	8715 (230V/4800W)
8551-300	Spare Lid Assembly - 230V/4800W - No Coil W/All Parts Mounted to Lid, includes Part Nos. 1 thru 10 plus No. 13C and Nos. 18 thru 20.	8707, 8714 (230V/4800W)

# EXPLODED VIEW — 3 STATION UNITS





# REPLACEMENT PARTS LIST

MODEL NOS. 8710, 8711, 8712, 8713, 8714, 8715, 8716 and 8717

Ref. No.	Part No.	Description	Model(s) Used On
1	8543-52	#8x3/8 Phillips Head "B" Screw	All
2	8543-23	Tinnerman Nut	All
3	8539-98	Back Panel (Basin)	All
4	8043-506	Hex Cap Nut	All
5	8043-5	Hold Down Strap	All
6	8043-47	#10-32 x 1" Phillips Head Screw	All
7	8707-12	1-3/16" dia. Heyco Bushing	All
8	8718-8	Basin Cover Sub-Assembly	All
9	8543-80	Front Panel Mounting Clips	All
10	7506-30	#8-32x3/8" Thread Cutting Screw	All
11	8700-16	Warmer Cover Plate	All
12	8718-9	Basin Pan Cover	All
13	8572-18	Calrod Warmer Element 120V/100W	All
14	3-100	#6-32 x 1/4 Round Screw	All
15	8512-51	Thermostat	All
16	8512-41	Seal Washer	All
17	8706-75	Dot Plug Button- 2 inch Dia.	All
18	8043-15	Vent Tube	All
19	8043-8	Inlet Elbow	All
20	8043-11	Outlet Elbow	All
21	8043-26	Water Outlet Tube	All
22	8043-13	Sprayer Elbow	All
23	8043-83	Hi Limit Thermostat	8710, 8711, 8712, 8713
24	8543-73	#4-40x1 1/2" Ig. Slotted Pan Head Screw	All
25	8043-24	Water Inlet Tube	All
26	8543-74	#4-40 Hex Nut	All
27	8543-42	Spray Head Gasket	All
28	8543-44	Sprayer Disc	All
29	8043-14	Heating Element 120V/1500W	8712, 8713
30	8549-1	Heating Element 120V 2000W	8710, 8711
30	8716-1	Heating Element 230V 3500W	8716, 8717
30	8552-1	Heating Element 230V 4800W	8714, 8715
31	8043-10	Tank Body	All
32	8718-2	Front Panel	All
33	8033-60	Dot-Plug Button	All
34	8528-75	Body Base Sub-Assembly	All
35	8528-7	Bottom Plate Sub-Assembly	All
36	8033-55	Leg Leveler	All
37	8033-56	Leveler Cap	All
38	8942-92	Hex Nut w/Lockwasher	All
39	8707-6	Brew Chamber Assembly w/Wire Rack	All
39	8707-5	Brew Chamber Cup ONLY	All
40	8707-3	Screw	All
41	8707-2	Handle	All
42	8707-4	Wire Rack	All
43	8539-8	Tank Support Bracket	All
44	3-304	#8-32 x 5/8" Screw	All
45	8528-3	Back Cover	8716, 8717
45A	8552-19	Back Cover w/Receptacle Holes	8714, 8715
46	8549-7	Back Cover	8710, 8711
46	8543-1	Back Cover	8712, 8713
47	8549-11	Cord Grip Heyco	8710, 8711
47	35-110	Cord Grip Heyco	8712, 8713
48	8710-1	Cord and Cap Assembly	8710, 8711
48	8596-4	Cord and Cap Assembly	8712, 8713
49	8552-18	Terminal Block	8714, 8715, 8716, 8717
50	616-5	Screw	8714, 8715, 8716, 8717
51	8540-2	Straight Inlet Tube Assembly	8710, 8712, 8714, 8716
52	7200-6	#8-32x5/16" Screw	8714, 8715, 8716, 8717
53	8514-26	Needle Valve	8710, 8712, 8714, 8716
54	8551-30	1/4" Male Flare x 1/8" FPT connector	8710, 8712, 8714, 8716
55	8540-4	Formed Inlet Tube Assembly	8710, 8712, 8714, 8716
56	8540-3	Outlet Tube to Faucet Assembly	8710, 8712, 8714, 8716
57	8941-20	Adaptor Fitting	All
58	8881-8	Washer	All
59	8043-30	Gasket	All
60	8873-12	Male Elbow 1/4" Pipe x 45° Flare	All

# REPLACEMENT PARTS LIST

MODEL NOS. 8710, 8711, 8712, 8713, 8714, 8715, 8716 and 8717

Ref. No.	Part No.	Description	Model(s) Used On
61	8541-21	Basin Pan	All
62	8710-20	Top Body Sub-Assembly	8710, 8711, 8712, 8713
62A	8718-3	Top Body Sub-Assembly	8714, 8715, 8716, 8717
63	8710-10	#7/16-20x1/8" thick Brass Hex Nut	All
64	8551-35	"T" Coil Inlet Fitting	8710, 8712, 8714, 8716
65	8541-120	Solenoid Valve with Flow Control	All
66	8541-93	Inlet Fitting	8711, 8713, 8715, 8717
67	8718-1	Timer w/Knob and Plate - 2 min.	All
68	3-100	#6-32 x 1/4" Round Head Screw	All
69	8543-69	7/8" dia. Heyco Bushing	All
70	8539WF-3	Basin Welded Assembly	All
71	8528-4	Main Switch	All
72	8707-28	Start Switch	All
73	8707-34	ON-OFF Lighted Switch	All
74	8043-31A	Pilot Light	All
75	8551-250	Faucet (Includes Ref. No. 89, 90 & 91.)	8710, 8712, 8714, 8716
76	8528-74	Dot-Plug Button	8711, 8713, 8715, 8717
77	8541-46	Water Inlet Hose	All
78	8541-48A	Elbow	All
79	3-100	#6-32 x 1/4" Round Screw	8714, 8715, 8716, 8717
80	8718-48	Safety Thermostat Bracket	8714, 8715, 8716, 8717
81	8552-50	Safety Thermostat	8714, 8715, 8716, 8717
82	8861-16	#6-32 Nut w/Lockwasher	8714, 8715, 8716, 8717
83	8540-6	Water Coil	8710, 8712, 8714, 8716
84	8551-53	7/16 ID x 3/4 OD Washer	8710, 8712, 8714, 8716
85	8942-33	Thermostat Gasket	8710, 8712, 8714, 8716
86	8941-21	7/16-20x1/8 thick Brass Lock Nut	8710, 8712, 8714, 8716
87	8043-28	1/2-20 Hex Nut	All
88	8549-1A	Nut	8714, 8715, 8716, 8717
89	8551-100C	Hex Lock Nut	8710, 8712, 8714, 8716
90	8551-100B	7/16 External Tooth Lockwasher	8710, 8712, 8714, 8716
91	8551-100A	Rubber Washer	8710, 8712, 8714, 8716
92	8043-12	Tank Cover Gasket	All
93	8552-180	Tank Cover Plate ONLY	8711, 8715, 8717
	8514-68	Tank Cover Plate ONLY	8710, 8712, 8714, 8716
	8512-45	Tank Cover Plate ONLY	8713
94	8706-102	Adaptor Fitting	All
95	D-20002-3	#10-32 Screw	All

## Ref. #65 COLD WATER ENTRANCE SOLENOID VALVE PART NO. 8541-120 (Consists of Valve and Flow Control)

### SOLENOID VALVE REPLACEMENT PARTS (For Blue Coil Valve)

(No Parts Sold Separately)

- (1) 8541-120C Coil Assembly - 120V.
- (2) 8541-120K Solenoid Repair Kit  
Vacuum Pac consists of:  
(2A) Spring  
(2B) Plunger  
(2C) Seal Ring
- (3) 8541-120F (3A) Flow Control
- (4) 8541-120WS (2D) Service Wrench
- (5) 8810-103 Solenoid Valve Only  
(Minus 2D & 3A)

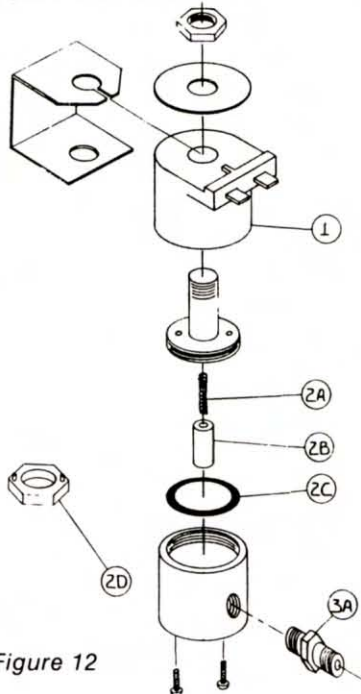


Figure 12

### SOLENOID VALVE REPLACEMENT PARTS (For Black Coil Valve)

(No Parts Sold Separately)

- (1) 8541-120CS Coil Assembly - 120V.
- (2) 8541-120JS Solenoid Repair Kit  
Vacuum Pac consists of:  
(2A) Spring  
(2B) Plunger  
(2C) Seal Ring  
(2D) Service Wrench
- (3) 8541-120KS Solenoid Overhaul Kit  
Vacuum Pac Consists of:  
(2A) Spring  
(2B) Plunger  
(2C) Seal Ring  
(2D) Service Wrench  
(3A) Flow Control
- (4) 8541-120F (3A) Flow Control
- (5) 8541-120WS (2D) Service Wrench
- (6) 8810-103 Solenoid Valve Only  
(Minus 2D & 3A)



## HOT WATER FAUCET SYSTEM

### PARTS LIST

MODELS 8707, 8710, 8712, 8714 & 8716

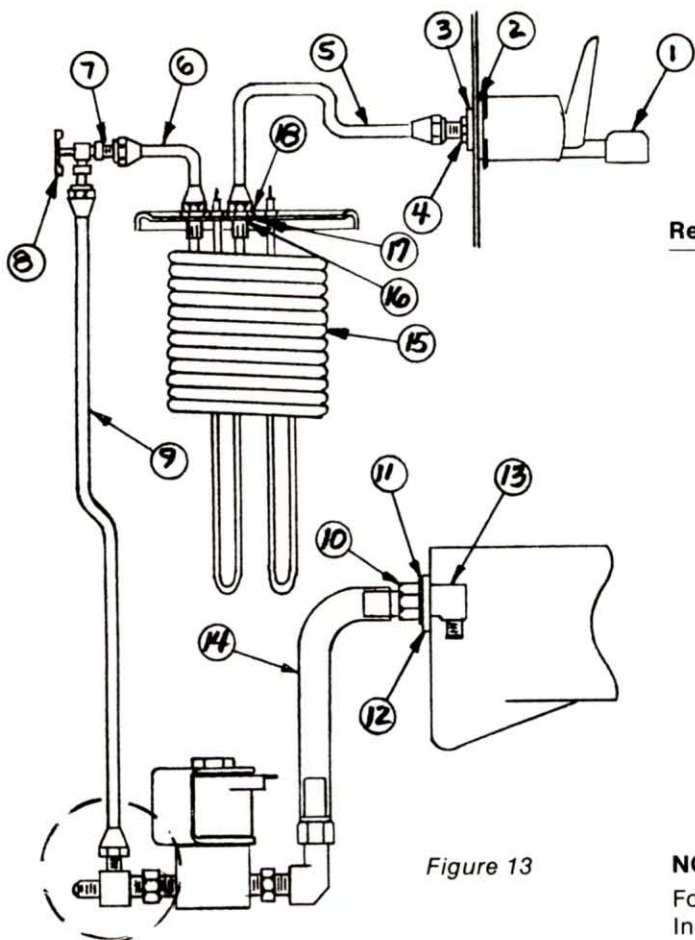


Figure 13

#### NOTE:

This Section Differs on MODEL No. 8707 (See Exploded View on Page 15).

Ref. No.	Part No.	Description
1.	8551-250	Faucet (Includes #2, #3 & #4)
2.	8551-100A	Washer
3.	8551-100B	7/16 External Tooth Lockwasher
4.	8551-100C	Hex Locknut
5.	8540-3	Outlet Tube Assembly
6.	8540-4	Formed Inlet Tube Assembly
7.	8551-30	1/4 Male Flare x 1/8 FPT Fitting
8.	8514-26	Needle Valve
9.	8540-2	Straight Inlet Tube Assembly
10.	8707-46	Tube, "T" to Needle Valve (8707 Only)
11.	8941-20	Adaptor Fitting
12.	8881-8	Washer
13.	8043-30	Gasket
14.	8873-12	Male Elbow 1/4 Pipe x 1/4x45° Flare
15.	8541-46	Inlet Tube
16.	8707-50	Inlet Tube (8707 Only)
17.	8540-6	Hot Water Coil Assembly
18.	8551-53	7/16 I.D. x 3/4 O.D. Washer
	8942-33	Gasket
	8941-21	7/16-20 x 1/8 thick Brass Locknut

#### NOTE:

For complete Faucet Assembly, Order Part No. 8551-250 Includes items 1, 2, 3 and 4.

## HOT WATER FAUCET

### REPLACEMENT LIST

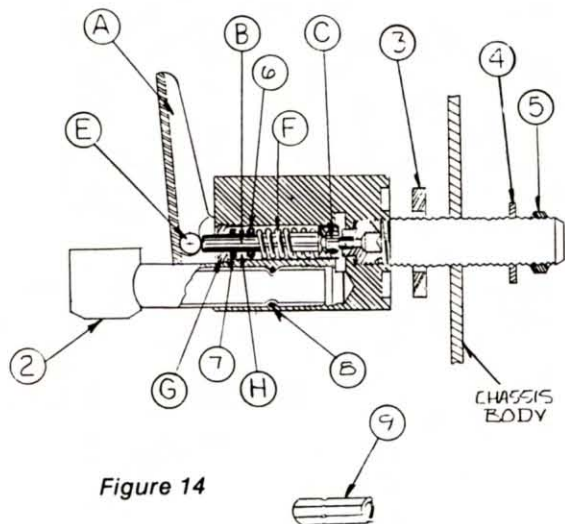
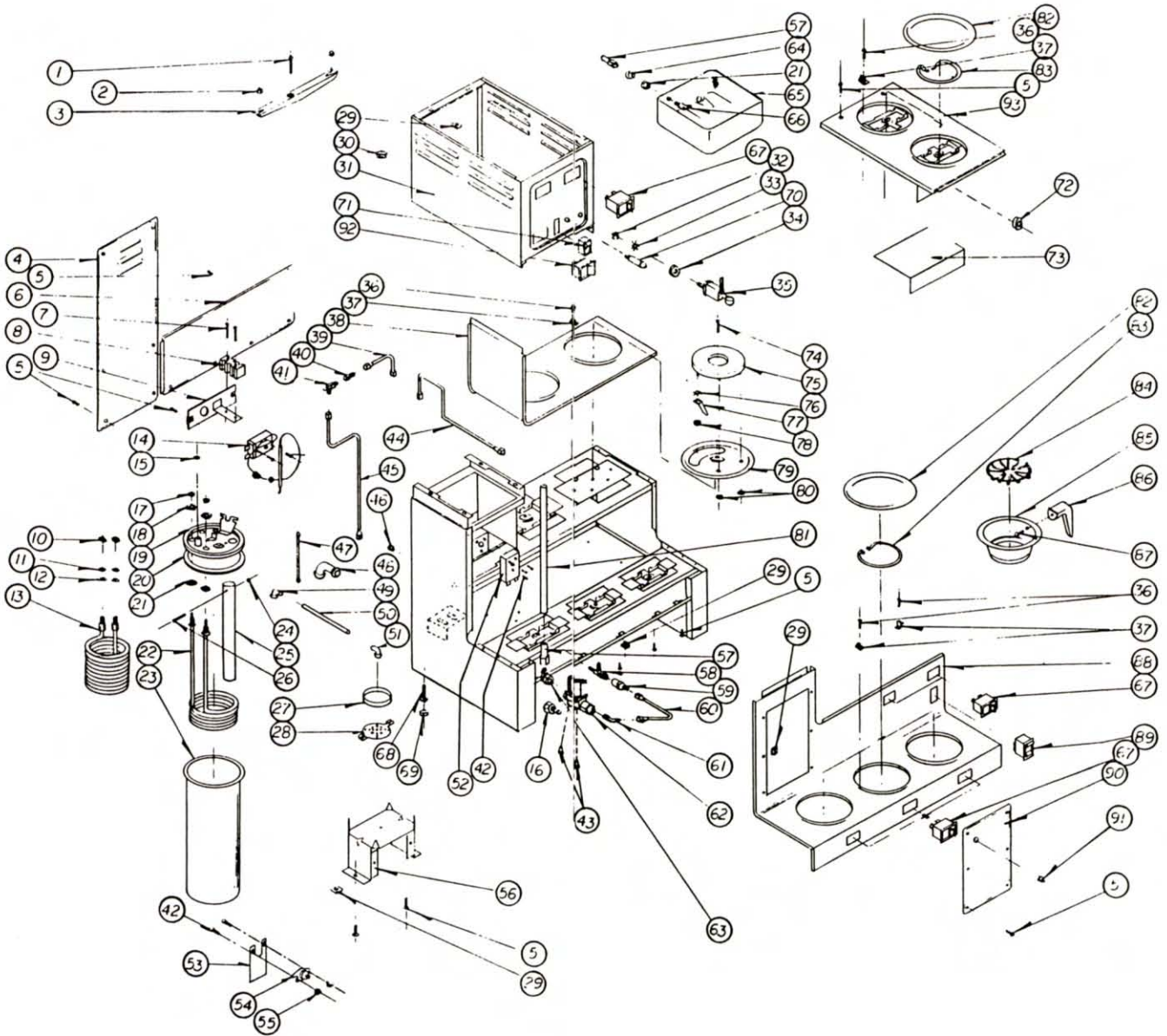


Figure 14

Ref. No.	Part No.	Description
1.	8551-275	Repair Kit (sold as Kit only)
A.		Handle (Color-Red)
B.		Valve-Stem
C.		Valve Disc
D.		"O" Ring - #6, #7 & #8
E.		Tee Nut
F.		Spring
G.		Guide
H.		Bushing
		Instruction Card (Not Shown)
2.	8551-275B	Stream Straightener (Not Shown)
3.	8551-100A	Washer Rubber
4.	8551-100B	7/16 External Tooth Lock Washer
5.	8551-100C	Hex Lock Nut
<b>SEALS AVAILABLE</b>		
6.	8551-200B	"O" Ring Stem Seal 5/16" O.D.
7.	8551-200A	"O" Ring Seal 1/4" O.D.
8.	8551-200C	"O" Ring Spout Seal 3/8" O.D.
C.	8551-275A	Valve Disc
<b>TOOL AVAILABLE</b>		
9.	8551-200E	Adapter Tool - Service Wrench

# EXPLODED VIEW — 7 STATION UNITS





# REPLACEMENT PARTS LIST

MODEL NO. 8707

Ref. No.	Part No.	Description
1	8043-47	#10-32 x 1" Phillips Head Screw
2	8043-506	Hex Cap Nut
3	8043-5	Hold Down Strap
4	8707-10	Rear Panel
5	8543-52	#8x3/8 Phillips Head "B" Screw
6	8707-11	Rear Bottom Panel
7	616-5	Screw
8	8552-18	Terminal Block
9	8528-3	Back Cover
10	8941-21	#7/16-20 Hex Nut
11	8942-33	Thermostat Gasket
12	8551-53	7/16 ID x 3/4 OD Washer
13	8540-6	Hot Water Coil
14	8512-51	Thermostat
15	8512-41	Seal Washer
16	8706-102	Adaptor Fitting
17	8549-1A	Hex Nut
18	8043-28	#1/2-20 Nut
19	8514-68	Tank Cover Plate Only
20	8043-12	Tank Cover Gasket
21	8043-30	Heating Element Gasket
22	8552-1	Heating Element 230V 4800W
23	8043-10	Tank Body
24	8543-74	#4-40 Hex Nut
25	8043-24	Water Inlet Tube
26	8543-73	#4-40 x 1 1/2" Slotted Pan Head Screw
27	8543-42	Spray Head Gasket
28	8543-44	Sprayer Disc
29	8543-23	Tinnerman Nut
30	8543-69	7/8" dia. Heyco Bushing
31	8707-45	Basin Welded Assembly
32	8551-100C	Hex Lock Nut
33	8551-100B	7/16" External Tooth Lockwasher
34	8551-100A	Washer
35	8551-250	Faucet
36	7506-30	#8-32 x 3/8 Thread Cutting Screw
37	8543-80	Front Panel Mounting Clips
38	8707-24	Warmer Step Plate
39	8540-4	Formed Inlet Tube Assembly
40	8551-30	1/4 Male Flare x 1/8 FPT Connector
41	8514-26	Needle Valve
42	3-100	#6-32 x 1/4" Round Screw
43	D-20002-3	#10-32 Screw
44	8540-3	Faucet Tube Assembly
45	8707-124	"T" to Coil Tube Assembly
46	8710-10	7/16-20 x 1/8 thick Brass Hex Nut
47	8043-15	Vent Tube
48	8043-8	Inlet Elbow
49	8043-11	Outlet Elbow
50	8043-26	Water Outlet Tube
51	8043-13	Spray Elbow
52	8718-1	Timer
53	8528-5	Safety Thermostat Bracket
54	8552-50	Safety Thermostat

# REPLACEMENT PARTS LIST

MODEL NO. 8707

Ref. No.	Part No.	Description
55	8861-16	Hex Nut w/Lock Washer
56	8539-8	Tank Support Bracket
57	8941-20	Adaptor Fitting
58	8551-35	"T" Coil Inlet Fitting
59	8707-30	3/8 FP x 1/4 M Flare Fitting
60	8707-47	"T" Inlet to Solenoid Tube Assembly
61	8707-31	90° Elbow 3/8 MP x 1/4 M Flare
62	8541-120	Solenoid Valve
63	8541-48A	Elbow
64	8881-8	Washer
65	8541-21	Basin Pan
66	8873-12	Male Elbow 1/4P x 1/4-45° Flare
67	8707-34	ON-OFF Lighted Switch
68	8033-55	Leg Leveler
69	8033-56	Leveler Cap
70	8043-31A	White Pilot Light
71	8707-28	Start Switch
72	8707-12	1-3/16" dia. Heyco Bushing
73	8718-9	Basin Pan Cover
74	3-803	Screw
75	SA-6959-D8	Stove (Hot Plate) Heater
76	176-3	Lock Washer
77	CJ 280-11	Receptacle
78	18-246	Hex Nut
79	8707-29	Hot Plate Cup
80	18-84	Hex Nut
81	8707-50	Water Inlet Hose
82	8700-16	Warmer Cover Plate
83	8572-18	Calrod Warmer Element
84	8707-4	Wire Rack
85	8707-6	Brew Chamber Assembly w/Wire Rack
85	8707-5	Brew Chamber Cup ONLY
86	8707-2	Handle
87	8707-3	Screw
88	8707-20	Front Panel
89	8554-5	Three Position Switch
90	8707-9	Front Access Panel
91	8033-60	Dot-Plug Button
92	8528-40	Main Switch
93	8707-200	Basin Cover Sub-Assembly



# TROUBLE SHOOTING INSTRUCTIONS

## ALL MODELS

### I. COLD WATER

1. Check if the cord is plugged into electric outlet.  
Check for blown fuses or open circuit breakers.
2. Damaged cordset.  
Check cordset for cuts.
3. Loose wires.  
Remove front panel and top cover and check for loose connections.
4. Defective running thermostat.  
Replace running thermostat.  
On Model Numbers 8707, 8714, 8715, 8716, & 8717 reset safety thermostat by pushing reset button only after running thermostat has been replaced or adjusted.
5. Running thermostat set too low.  
Adjust running thermostat.
6. Defective high-limit thermostat.  
Replace high-limit thermostat.
7. Defective heating element.  
Replace heating element.

### II. LOW WATER TEMPERATURE

1. Defective or out of adjustment running thermostat.  
Adjust or replace thermostat.
2. Defective high-limit thermostat.  
Replace high-limit thermostat.
3. High lime deposit on tank heating element and thermostat capillary sensing unit.  
Remove heating element and thermostat from tank and using de-liming compound (can be purchased locally), remove lime deposit from heating equipment and capillary sensing unit.

### III. WATER TEMPERATURE TOO HIGH

1. Defective or out of adjustment running thermostat.  
Adjust or replace running thermostat.

### IV. WARMER(S) COLD - DOES NOT HEAT

1. Check if warmer switch is "ON" position.
2. Check if the cord is plugged into electric outlet.
3. Damaged cordset.  
Check cordset for cuts.
4. Check for loose wires.
5. Defective warmer switch.  
Replace switch.
6. Defective warmer element.  
Replace warmer element.

### V. READY (GREEN) LIGHT DOES NOT GLOW WHEN WATER REACHES BREW TEMPERATURE.

1. Check for loose wires.
2. Defective ready light.  
Replace ready light.

### VI. WEAK COFFEE

1. Insufficient amount of coffee grounds is being used.  
Add coffee grounds until desired taste is obtained.
2. Water temperature too low.  
Water temperature coming out of the spray head should be between 190-200° F. If it is lower than 190° F., adjust running thermostat.
3. Wrong paper filter is being used.  
Use BLOOMFIELD paper filters.
4. Paper filter not centered in the brew chamber, and/or coffee grounds not level in the filter paper.  
Center filter; level coffee grounds.
5. Wrong grind of coffee is being used.  
Use FINE GROUND COFFEE.
6. Check to see that sprayhead is properly in place.

### VII. COFFEE TOO STRONG

1. Too much coffee being used.  
Reduce amount of coffee until desired taste is obtained.
2. More than one (1) paper filter is being used.  
Make sure that ONLY ONE paper filter is placed in the brew chamber.

### VIII. NO WATER FLOW

#### A. WHEN INITIALLY INSTALLED.

1. Insufficient amount of water in the system. Was tank filled with water as instructed in pre-installation guide steps #1 thru #8?
2. Water turned off to the unit.  
Open water supply shut-off valve.
3. Low water pressure in supply line.  
Check water pressure in supply line. Unit will not operate properly if line pressure falls below 20 P.S.I.
4. Unit is unplugged.  
Plug in power cord or turn on power source.
5. Defective brew start switch.  
Replace brew switch.
6. A loose or disconnected wire.  
Reconnect wire.

### INTEGRITY FAUCET MODEL(S)

#### I. NO WATER FLOW AT FAUCET.

- A. Water turned off to the machine. Open water shut-off valve.
- B. Needle Valve closed. Turn Needle Valve Handle counter-clockwise to open (see Fig. 9).

#### II. EXCESSIVE WATER FLOW AT FAUCET.

- A. Needle Valve full open. Turn Needle Valve Handle clockwise to reduce water flow (see Fig. 9).