

# INTEGRITY SERIES SATELLITE COFFEE BREWING SYSTEM

**OWNER'S MANUAL** 

OPERATING INSTRUCTIONS MAINTENANCE INSTRUCTIONS AND PARTS LISTS

MODEL 9102 Auto w/Faucet 120V 9104 Auto w/Faucet 115/230

> BLOOMFIELD INDUSTRIES 2 ERIK CIRCLE, P.O. BOX 280 VERDI, NEVADA 89439

> > FAX (800) 356-5142



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. WARNING: DO NO PLUG IN OR ENERGIZE THIS UNIT UNTIL INSTALLATION INSTRUCTIONS ARE READ AND FOLLOWED.

#### ELECTRICAL INSTALLATION

IMPORTANT: Prior to starting the electrical hook-up, check power source and electrical receptacle for proper single phase voltage supply. Figure 3 details:

Models 9104 Unit with 3 wire plus ground requires: 120/208 Volt or 115/230 Volt A.C. 60 HZ., Single Phase, (3) Three Wire, 20 AMP service.

Models 9102 Unit with 2 wire plus ground, is equipped, (from the factory), with power cord and plug attached. It requires 120 Volt, A.C., 60 Hz., Single phase (2) Two wire, grounded, 15 AMP service.

CAUTION: DO NOT CONNECT TO A THREE (3) PHASE POWER SOURCE OR ANY OTHER THAN AS NOTED IN FIGURE 3, AS DAMAGES TO THE UNIT CAN OCCUR THAT ARE NOT THE RESPONSIBILITY OF THE MANUFACTURER OF THE UNIT.



IMPORTANT: For Power supply, use #12AWG wire suitable for 75 degrees C. Use copper wire ONLY. Wire, plug and connector must be supplied by the ELECTRICIAN, for 20 AMP. units.

- 1. Recheck at this point, the Main Power Switch and the Tank Heater 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 panels of brewer for access to the installation junction block.

All wiring must be accordance with local electrical codes.

Do not assume the GREEN earth ground wire can be used as a neutral. The GREEN earth ground is a protection circuit not intended as part of the power lines.

Check voltages at the terminal block, to be certain each section conforms to Figure 3.

NOTE: At this point, unplug the power cord or main power source and go to installation instruction Page 4 "Connecting Water Supply".



#### GUIDE TO THE INITIAL INSTALLATION AND TANK FILLING SEQUENCE

NOTE:	THI	SUN	TIN	IS	PR	OV	IDED
WITH	FOUR	(4)	4	IN	ICH	LE	GS.
THESE	LEGS	ARE	ΤO	ΒE	INS	TA	LLED
ON UN	IT BY	SCR	EWI	NG	THE	M	<u>ento</u>
THE	THREAI	DED	HO	LES	5 01	Ν	THE
BOTTON	1 PLAT	Έ.					

#### LEVELING THE UNIT

This is a very important installation operation that must not be overlooked or ignored. For proper unit operation, it is very important that the unit be level when it is standing in its installed location.

The 4 inch legs provided with the unit can be adjusted to correctly level unit.

<u>NOTE:</u> THIS FOLLOWING PROCEDURE MUST BE PERFORMED TO INITIALLY FILL WATER TANK.

- STEP 1. <u>Check the Main</u> <u>switch, to be sure it</u> <u>is in the "OFF" posi-</u> <u>tion.</u> The switch is located on the rear upper panel of the unit. It must remain "OFF" until the tank filling procedure has been read and followed.
- STEP 2. CHECK THAT TANK HEATER SWITCH, LOCATED ON FRONT OF BREWER IS IN <u>"OFF"</u> POSITION.
- STEP 3. Connect electrical source to unit. (SEE INSTRUCTIONS - PAGE 2).
- STEP 4. Connect water supply to unit. (SEE INSTRUCTIONS - PAGE (4)) -

- STEP 5. Turn brew selection switch, on front panel of unit to the 1 gallon position.
- STEP 6. Slide brew chamber into place and place an empty satellite container on warmer. CHECK THAT FAUCET IS CLOSED.
- STEP 7. Turn on water and electric at source.
- STEP 8. Turn on main power switch on back of brewer.
- STEP 9. Press brew start switch, wait (2) minutes and repeat. Water should start flowing from brew chamber during the third cycle indicating the tank is filled with water.
- STEP 10. After water stops, remove, empty and replacethe satellite container under the brew chamber.
- STEP 11. Follow instructions for initial brewing cycle set-up and operation guide. Page (5).

#### CONNECTING WATER SUPPLY LINE TO UNIT

Complete the electrical installation before starting the water connections.

#### WARNING:

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

Before starting water hook-up, check to be sure the power cord of the unit is unplugged, or main power source is off.

Unit must be installed on a water line with a flowing pressure between 20 PSI and 90 PSI. If water pressure does not fall into this range, or varies greatly, a pressure regulator should be installed.

AUTOMATIC BREWERS are supplied with water line filter which has to be installed between the machine and water supply line. IMPORTANT: Flush water line until water runs clear before installing water line to filter and the unit. Machine should be connect to COLD WATER LINE.

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. 4.

NOTE: Water line connections to machine must conform to local codes.

After water hook-up is completed, continue to follow installation instructions, page 3 "Guide to the Initial Installation and Tank Filling Sequence" to finish the installation and set-up the unit for brewing cycle.

## CONNECTIONS NECESSARY TO EACH UNIT



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.

#### INITIAL BREWING CYCLE SET-UP AND OPERATION GUIDE

This unit is now connected to water supply and to the electric power source. Check that installations have been made as described in electrical and water supply connection instruction.

- 1. Complete each step in the following sequence:
  - A. Check that main power switch is " <sup>ON</sup> " and unit is connected to power source. Tank heater switch must remain "OFF" until STEP "F".
  - B. Check that brew selector switch is in the 1 gallon mode.
  - C. Check that brew chamber is in place and an empty satellite container is under it with its faucet CLOSED.
  - D. Take an empty decanter and hold under hot water faucet and open faucet drawing off 1/2 decanter of water. This avoids "spitting" from faucet due to trapped air in the water coil.
  - E. Turn "ON" the main power switch, located on upper back of brewer.
  - F. Now turn the tank heater switch to the " " position. Switch is located on the front upper panel of unit.

- 2. Water in the tank will start heating. Initial heating time is approximately 15 to 25 minutes, depending on brewer model. The GREEN Ready to Brew light will turn on when water reaches brewing temperature.
- When GREEN Ready to Brew 3. light turns ON, Press Brew Start switch. Hot Water will start flowing out of the brew chamber, indicating that the tank is full of water. After water stops flowing from brew chamber, remove and empty the satellite container, and place it the satellite back under brew chamber, with faucet closed. (Be sure the brew selector switch is set for 1 gallon brewing).
- 4. Repeat STEP 3...after water stops flowing, you should have approximately 128 ounces of water (2 brim full decanters or slightly over 1/2 a satellite container). If after completion of the cycle you do not have 128 ounces of water, proceed as follows:
  - A. Check water supply line pressure. 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 supplying the unit.)

- B. Remove Brew Chamber and the satellite container from brewer, also the timer adjustment plug button, (the 2" diameter plug) located on upper left hand side of front panel. This allows access to timer adjustment knob. Nominal timer setting for all 3 brew volume ranges is #4.
- C. Turn timer adjusting knob:

1. CLOCKWISE: to a <u>higher</u> number, to <u>increase</u> volume.

2. COUNTER-CLOCKWISE: to <u>lower</u> number to <u>decrease</u> volume.

<u>CAUTION!</u> The timer is very sensitive, so make





Approximate changes in the ounces of water delivered when knob is rotated (1) one <u>number</u> (example #5 to #6) or (1) one <u>mark</u> (ea. division between numbers), is as specified.

Brew Vol.	1-Number change	1-Mark change
switch	on Timer Dial	on Timer Dial
Setting	Plate	Plate
1/2 gal.	11 oz.	3 oz.
l gal	22 oz.	5 1/2 oz.
1 1/2 gal.	33 oz.	8 oz.

- D. Replace brew chamber and the empty satellite container with faucet closed. Set brew selector switch at 1 gal. and start a brew cycle.
- E. Check for 128 oz. (1 gal.) water delivery volume. Repeat adjustment procedure until desired water volume (128 oz.) is achieved during a brew cycle.
- F. After water volume has been checked for proper delivery, check temperature of brewing water as follows:
  - Ready to Brew light is on
    Run a brew cycle of water and check the temperature of water with a thermometer
    Proper operating temperature from Brew Chamber should be 190 F +/- 5 at mid cycle.

- If thermostat needs adjustment refer to "Operating Thermostat Adjustment" Page 9.

#### BREWING OF COFFEE

Depending on the brewer model, the brewing capacities are 1/2 - 1 gal. (9102) and 1-1 1/2 gal. (9104). The brewing procedure is the same for either model. Always check the brew selector switch to be sure it is in the brew mode you desire. 1. Remove brew chamber from unit and place one (1) paper filter into brew chamber. Add your choice of ground coffee. Shake brew chamber to level off the coffee, slide brew chamber into place.



 Place an empty satellite container under brew chamber. Make sure faucet is closed. IMPORTANT: Always use an empty satellite container when starting a brew cycle.

- 3. When GREEN Ready to Brew light is on, press the Brew Start switch. When coffee stops flowing from the brew chamber the freshly brewed coffee is ready.
- 4. Remove brew chamber and discard paper filter and coffee grounds.
- 5. When GREEN Ready to Brew light turns ON again, the brewer it ready for another brewing cycle.
  - To keep the coffee hot, the brewer is equipped with a warmer which is activated by a switch located on the upper front panel. A RED light will glow, indicating that warmer is "ON<sup>1</sup>.

IMPORTANT:

- 1. Warmer should be turned off when not in use.
- 2. DO NOT leave empty satellite on warmer that is "ON" .
- 3. DO NOT leave coffee on warmer over night.

#### <u>BY-PASS: SET UP AND ADJUSTMENT</u> Model 9104 Uses A By-Pass Valve During Brewing

The unit leaves the factory with the By-Pass Valve set at the 25% by-pass volume which is the smaller of the flow set gauges, however, if the location has:

A. Softened Water:
1. supplied by their community water source or
2. their own water softener, or

B. The finished brew is too strong; when:
1. the correct amount of coffee grounds is used, approximately 6 to 8 ounces and,
2. the correct volume (128)

ounces) of water flows into the satellite,

the by-pass valve must be readjusted or opened toward the larger gauge and size which is approximately a 50% by-pass of water volume.

Re-adjustment of the by-pass valve prevents the coffee bed from rising above the filter paper and flooding into the finished brew. Re-adjustment also aids in setting the level of finished brew strength for local coffee drinking quality.

NOTE: THIS ADJUSTMENT MUST NEVER BE MADE UNLESS SOFT WATER CONDITION EXISTS OR AN ADJUST-MENT FOR COFFEE STRENGTHS IS TO BE MADE.

WARNING: Turn off the Tank Heater Switch and disconnect power supply to Brewer before removal of any panel or replacement of any component.

- 1. Remove the two (2) screws holding the top panel. Slide panel back and up to remove.
- 2. Lift Water Basin Pan (#7) and move aside.

- Remove soft water valve (#16) and turn screw counter-clockwise enough to accept large Flow Set Gauge.
- 4. Replace soft water valve in brewer.
- 5. Replace water basin and top cover.
- 6. Plug in Brewer and turn on Tank Heater Switch.

Brewing time should be NOTE: between 6 and 8 minutes. If brew time exceeds 8 minutes after opening valve to 50% open soft water valve 1/8 turn further and re-time brew cycle. If brew time still exceeds 8 Bloomfield minutes, contact Industries.

BY-PASS VALVE



USE DRILLS OR WIRES OF THE DIAMETERS SPECIFIED. TO ADJUST BY-PASS SETTINGS



FLOW SET GAUGES

#### UNIT MUST BE DISCONNECTED FROM ELECTRICAL SOURCE **IMPORTANT:** BEFORE ANY SERVICE IS PERFORMED.

#### FRONT PANEL REMOVAL

To remove the front panel for service, remove (6) screws and lift panel away from body.

#### BASE COVER/WARMER ELEMENT RE-MOVAL

Remove front panel (as described above). Loosen faucet support bracket screws and drop bracket to provide clearance. Slide base cover forward to clips disengage and lift element is upward. Warmer attached to underside of dome shape by a retaining bracket. and nut. Reinstall in reverse Adjust sequence. Faucet bracket with satellite resting on warmer. Bracket end should just touch faucet shank.

FRONT VIEW



**OPERATINGTHERMOSTATADJUSTMENT** 

running Whenever thermostat adjustment becomes necessary, proceed as follows:

- A.1. Check that power to brewer is disconnected.
  - 2. Remove two (2) screws from top cover.

- 3. Slide cover back and lift off.
- 4. Turn Thermostat adjusting shaft. Clockwise adjust-INCREASES temperments ature, and counterclockwise DECREASES temperature. For proper operation of the unit and optimum extraction of coffee, thermostat should cycle off between 195 F and 205 F.
- 5. Reconnect power to brewer.

To check temperature, unit must be energized:

Usina Β. а mercury

- thermometer:
  - 1. Remove brew chamber and spray head.
  - 2. Leave empty satellite on lower warmer, with cover off, and faucet closed. 3. When ready light comes ON,
  - press brew button
  - 4. A stream of hot water will come out of brewer. Place bulb the of the into thermometer the stream and read the temperature.
  - 5. I f necessary, repeat previous steps until desired temperature is achieved.

IMPORTANT: Tank thermostat should be adjusted so that water temperature never exceeds 205 **F**.



#### TIMER ADJUSTMENT

Timer adjustments are made with the brew selector switch in the 1 gallon position. These units are equipped with an adjustable timer to permit brewing 1/2 -1 gallons or 1 or 1 1/2 gallons with the flip of a brew selector switch, depending upon brewer model. Refer to detailed instructions on Timer Adjustments - Page 6 - items "B" through "E".

- 1. Remove brew chamber.
- 2. Remove timer adjuster 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.
- 4. Replace plug button and brew chamber.



- TO REPLACE TIMER ASSEMBLY
  - Disconnect cord from electrical outlet/turn off power source.
  - 2. Remove front panel.
  - 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 WATER COIL AND/OR HEATING ELEMENT ASSEMBLY

- Disconnect unit from power supply and shut off water. Open faucet momentarily, to relieve pressure.
   Remove two (2) screws from
- 2. Remove two (2) screws from rear of top cover.

- 3. Slide cover back. Set cover aside.
- Disconnect water inlet hose, elbow, vent tube and inlet elbow from basin pan. Remove basin pan.
- 5. Disconnect flare nut fitting on the following tubing assemblies: A. Tube assembly: needle valve to tank cover - disconnect at needle valve. B. Tube assembly: tank cover to faucet. Disconnect at faucet valve.
- 6. Disconnect wires from thermostat.
- Disconnect wires from heating element. On 120 Volt unit also disconnect wires from the high limit control.
- 8. Loosen center screw on tank hold down bracket.
- Remove hold down bracket by sliding the short slotted end off the locking stud.
- 10. Remove cover assembly from tank by lifting it out.

#### TO REMOVE HEATING ELEMENT ASSEMBLY

- Remove tank lid assembly

   see steps 1 through 10 of
   "To Replace Heating
   Element Assembly".
- 2. Remove two (2) hex nuts and pull out heating elements from mounting holes in cover.

# TO REMOVE WATER COIL ON WATER FAUCET MODEL

#### TO REMOVE WATER COIL ASSEMBLY

- 1. Remove tank lid see steps 1 through 10.
- Remove both copper tubing assemblies fromwater coil fittings.
- 3. Remove two (2) nuts holding water coil to tank lid assembly.

NOTE: On the Model 9104 it is necessary to remove the tank heating element before removing the water coil.

TO REPLACE THERMOSTAT

- 1. Disconnect power supply to brewer.
- 2. Remove two (2) screws from rear of top cover.
- 3. Slide cover back. Set cover aside.
- 4. Disconnect wires from thermostat.
- Loosen two (2) screws securing thermostat to bracket.
- Loosen and remove jam nut from fitting, securing thermostat capillary line into the top of the cover.
- Lift out the thermostat capillary sensing bulb from the cover.

IMPORTANT: When remounting a thermostat capillary sensing bulb through the cover, be sure a new seal washer is placed below the fitting on the capillary line. Push the capillary line through the cover until the fitting seats. Tighten the capillary locking nut enough to insure no water leakage. Extreme tightening is not necessary.

When replacing heating element assembly or water coil, you should also replace the gaskets. (Refer to parts list.) Before setting the cover assembly to 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.
- Using thin screw driver, pry out pilot light from mounting hole, disconnect leads.

3. Replace pilot light following reverse procedure.

TO REPLACE WARMER AND BREW SWITCHES

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

## TO REPLACE SOLENOID VALVE AND

- WATER CUSHION TUBE ASSEMBLY 1. Disconnect cord from elec
  - trical outlet/turn off power source.
  - 2. Turn off water supply.
  - 3. Remove water connection and hex nut holding inlet fitting into back of unit.
  - 4. Remove front panel.
  - 5. Remove the flare connection from the "T" top outlet and gently move tubing aside.
  - 6. Pull solenoid forward slightly and lift up to release it from the mounting bracket and disengage inlet fitting from hole in back panel.
  - 7. Carefully pull solenoid assembly out to gain access to wiring and rubber tube.
  - 8. Remove wires from solenoid.
  - 9. Remove rubber tube.
  - 10. Solenoid assembly with water cushion tube can now be removed for complete servicing.
  - 11. Replace assembly by following reverse procedure.
- TO REPLACE TANK
  - 1. Disconnect cord from electrical outlet/turn off power source.
  - 2. Turn off water supply and remove water connection

from inlet fitting on back of brewer.

- 3. Position drain fitting over drain facility and unscrew drain cap. <u>CAUTION!</u> WATER MAY BE HOT.
- Remove the lower body back panel, through which the drain fitting projects, by removing the two (2) screws.
- 5. Remove the basin back panel panel, by removing the five (5) screws and carefully drop downward, make sure wiring to main switch is protected and not subject to damage.
- 6. Proceed with operations #2 through #10, described in "TO REPLACE: WATER COIL/HEATING ELE-MENT", Page 10.
- Remove the two (2) nuts securing tank retaining brackets to tank screws.
- a. Remove the two (2) nuts securing the two (2) tank retaining brackets to basin bottom. Remove brackets.
- 9. Rotate tank assembly counter-clockwise, (to the left) 90 (1/4 turn) until drain tube is centered on slot in tank mounting tray. Then lift out carefully, making sure drain tube passes through slot and clears needle valve.
- 10. Assemble in reverse sequence.

<u>HI-LIMIT TEMPERATURE, SAFETY</u> CONTROLS

MODEL 9102-120 V, 15 AMP UNIT This model has a self resetting control, mounted on the tank cover, and will automatically "OPEN" when normal tank temperatures have been exceeded, and "RESET" when tank has sufficiently

cooled down.

- Disconnect cord from electrical outlet/turn off power source.
- 2. Remove two (2) screws from rear of **top** cover and slide cover aside.
- 3. Remove wires from Hi-Limit Control, mounted under clip on tank cover.
- 4. Slide Hi-Limit Control from under clip and replace with new control. Make sure that there is sufficient tension from the clip to insure proper contact between tank cover and bottom of Hi-Limit Control.
- 5. Reconnect wires. NOTE: IF TERMINALS OR WIRING APPEARS DISCOLORED FROM HEATING, REPLACE TERMINAL ON NON-OXIDIZED WIRE ENDS.

#### MODEL 9104-115/230 V, 20 AMP UNITS

This model has a manually resetable control, mounted against the tank body. It will automatically "OPEN" when normal tank temperatures have been exceeded, but must be manually reset to restore electrical continuity for tank heating, when tank has sufficiently cooled down.

RESETTING THE HI-LIMIT SAFETY CONTROL

- 1. pry out the small plug button in the front panel of the body.
- 2. Using a non-electrically conductive dowel or rod, (i.e. eraser end of a wooden pencil) press the small reset button located in the center of the

control. If tank has sufficiently cooled down, the control will "SNAP" to the "ON" position and restore power to the tank heater.

3. Replace plug button.

<u>REPLACEMENT</u> OF <u>HI-LIMIT</u> CONTROLS

- 1. Disconnect brewer from power source.
- 2. Remove body front panel,by removing six (6) screws and lifting panel away from body.
- 3. Loosen screw holding bracket with Hi-Limit Control, to the unit, and slide assembly from its mounting bracket.
- 4. Disconnect wires from safety control.
- 5. Remove and replace Hi-Limit Control on bracket, as shown in Figure "A" using the screws and nuts originally supplied.



- 6. Reinstall bracket assembly into its mounting bracket and position the face of the safety control directly against the side of the tank, so control is firmly touching tank. Tighten mounting screw, making sure that Hi limit Control is still -tight against tank body.
- 7. Replace front panel.

CLEANING THE SPRAY HEAD

- 1. Remove brew chamber.
- Rotate spray head 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 spray head, being sure all spray head holes are fully open.
- 4. Clean entire area over brew chamber with a damp cloth.
- 5. Replace spray head, being sure spray head gasket is in place in cup. Spray head tabs must be in the UP position. Rotate fully into locking grooves.



#### HOT WATER FAUCET SYSTEM PARTS LIST

PART NO.	DESCRIPTION
8551-250	FAUCET (INCLUDES #2, #3 &. #4 )
8551-100A	WASHER
8551-100B	7/16 EXTERNAL TOOTH LOCK WASHER
8551-100C	HEX LOCK NUT
9102-37	FAUCET TUBE ASSEMBLY
9102-58	FORMED INLET TUBE ASSEMBLY
8551-30	1/4 MALE FLARE x 1/8 FPT FITTING
8514-26	NEEDLE VALVE
9102-25	OUTLET TUBE ASSEMBLY
8704-25	WATER CUSHION TUBE ASSEMBLY
8812-57	UNION, 1/4 FLARE
9102-56	COUPLING, 1/4 FEMALE FLARE
9102-55	TEE. 1/4 FLARE (M-M-F)
9102-38	WATER TUBE ASSEMBLY
9102-8	ELBOW, PIPE TO HOSE
8541-120	SOLENOID VALVE ASSEMBLY
8706-102	REDUCER ADAPTOR
9012-24	TEE, $1/4$ FLARE x $3/8$ MPT
8766-2	WATER INLET HOSE
8540-30	ELBOW
8540-6	HOT WATER COIL ASSEMBLY
8043-30	GASKET
8941-21	7/16-20 x 3/16 THICK BRASS LOCK NUT

#### NOTE :

FOR COMPLETE FAUCET ASSEMBLY, ORDER PART NO. 8551-250 INCLUDES ITEMS 1, 2, 3 AND 4.

#### HOT WATER FAUCET REPLACEMENT LIST



Ref. No.	Part No.	Description
1.	8551-275	Repair Kit (sold as Kit only)
A.	Ι	Handle (Color - Red)
B.	Ι	Valve — Stem
C.	Ι	Valve Disc
D.	Kit	"0"Ring - #6. 7, & 8
E.	Contains	Tee Nut
G.	Ι	Guide
H.	Ι	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
		SEALS AVAILABLE
6.	8551-200B	"0" Ring Stem Seal 5/16 Outside Dia.
7.	8551-200A	"0" Ring Seal 1/4 Outside Dia.
8.	8551-200C	"0" Ring Spout Seal 3/8 Outside Dia.
C.	8551-275A	Valve Disc
		TOOL AVAILABLE
9.	8551-200E	Adaptor Tool — Service Wrench
		-

## THERMOSTAT AND TANK COVER IDENTIFICATION AND REPLACEMENT INFORMATION



# PARTS LISTING FOR TANK COVER ASSEMBLY

REF. NO.	PART NO.	DESCRIPTION	MODELS
1	8512-51	THERMOSTAT	ALL
2	8043-11	OUTLET ELBOW	ALL
3	8706-20	VENT TUBE	ALL
4	8706-6	INLET ELBOW	ALL
5	8514-68	TANK COVER SUB ASSEMBLY	ALL
6	3-100	#6-32 x 1/4 ROUND HEAD SCREW	ALL
7	8043-83	HI-LIMIT THERMOSTAT	9102
8	8543-73	#4-40 x 1 1/2 PAN HEAT SCREW	ALL
9	8543-74	#4-40 HEX NUT	ALL
10	8706-68	WATER INLET TUBE	ALL
11	8760-44	HEATING ELEMENT, 240V-4200 WATTS	9104
12	9102-9	HEATING ELEMENT, 120V-1675 WATTS	9102
13	8043-30	HEATING ELEMENT GASKET	ALL
14	8043-12	TANK COVER GASKET	ALL
15	8540-6	HOT WATER COIL	ALL
16	8941-21	7/16 HEX NUT	ALL
17	8043-28	1/2-20 HEX NUT	ALL
18	8512-41	SEAL WASHER	ALL

#### COMPLETE SPARE TANK COVER ASSEMBLIES

#### (FOR PARTS LIST SEE PAGE 19)

PART NO.	DESCRIPTION	MODEL
9102-300	Tank Cover Assembly, 1675 W/120V with Water Coil	9102
9104-300	Tank cover Assembly, 4200 W/240V with Water Coil	9104
	All parts are mounted to cover	

### **COLD WATER ENTRANCE SOLENOID VALVE PART NO. 8541-120**

(Consist of Valve and Flow Control)





#### REPLACEMENTS PARTS LIST All Models

-

REF NO.	PART NO.	DESCRIPTION	MODEL(S) <u>USED ON</u>
1	8543-52	Screw, #8x 3/8" LG	ALL
2	8593-17	Hinged Cover	ALL
3	8593-18	Hinge Wire	ALL
4	9102-4	Basin Cover	ALL
5	8201-5	Nut, #10-24x 3/8" Hex	ALL
6	8540-30	Elbow - Plastic	ALL
7	9102-18	Basin Pan Sub-Assembly	ALL
8	8043-47	Screw, #10-32 x l", LG	ALL
9	8043-5	Hold Down Strap Assembly	ALL
10	8543-23	Tinnerman Nut	ALL
11	8593-27	Switch, Main	9102
12	9104-1	Switch, Main	9104
13	9102-1	Back Panel, Basin	ALL
14	3-100	Screw, #6-32 x 1/4", LG	ALL
15	8706-111	Screw, By-Pass Adj.	9104
16	8706-26	By-Pass Valve	9104
17	8706-188	Connector Tube	9104
18	9104-15	"T" By-Pass Tube Assembly	9104
19	9102-480	Tube, Water outlet	9102
20	8043-13	Spray Elbow	ALL
21A	9102-7	Basin Welded Assembly	9102
21B	9104-7	Basin Welded Assembly	9104

18

<u>REF NO.</u>	PART NO.	DESCRIPTION	MODEL(S) <u>USED ON</u>
22	8543-69	Bushing, Plastic	ALL
23	8543-42	Gasket, Spray Head	ALL
24	8543-44	Sprayer, Disc.	ALL
25	9102-27	Switch, Vol Select	ALL
26	8707-28	Switch, Brew	ALL
27	8707-34	Switch, Warmer	ALL
28	8718-31	Pilot Light, Green	ALL
29	8812-79	Switch, Stop	ALL
30A	8707-34	Switch, Tank Heater	9102
30B	8528-40	Switch, Tank Heater	9104
31	8551-250	Faucet, Hot Water	ALL
32	8551-100A	Washer, Rubber	ALL
33	8551-100B	Lock washer, 7/16" I.D.	ALL
34	8551-100C	Nut, 7/16-20, Faucet	ALL
35	8706-9	Wire Rack	ALL
36	8707-3	Screw, #10-32 x 5/16", LG.	ALL
37	8707-2	Handle	ALL
38	9102-57	Brew Chamber Only	ALL
39	8766-2	Water Inlet Hose	ALL
40	9102-8	Brass Fitting Elbow	ALL
41	8710-10	Nut, #7/16-20, Inlet Fitting	ALL
42	8812-57	Fitting, Water Inlet	ALL
43	9102-56	Fitting, Coupling	ALL
44	9102-55	Fitting, Tee	ALL

<u>REF NO.</u>	PART NO.	DESCRIPTION	MODEL(S) <u>USED ON</u>
45	9102-38	Tubing Assembly - Inlet/Solenoid	ALL
46	8704-25	Cushion Tube Assembly	ALL
47	8706-102	Fitting, Reducer	ALL
48	8541-120	Solenoid Valve, 120V	ALL
49	9012-24	Fitting, Tee	ALL
50	9102-9	Tank Element, 1675 Watts, 120v	9102
51	8540-4	Tubing Assembly, Inlet	9104
52	9102-9	Tubing Assembly, Sol/N. Valve	ALL
53	8540-6	Hot Water Coil Assembly	ALL
54	8043-30	Gasket, Element/Water Coil	ALL
55	8514-26	Needle Seat Valve	ALL
56	8914-21	Nut, #7/16-20, Water Coil	ALL
57	8551-30	Brass Fitting - Pipe/Flare	ALL
58	9102-58	Tubing Assembly - N. Valve/Coil	ALL
59	9102-37	Tubing Assembly - Faucet/with Coil	ALL
60	8043-11	Outlet Elbow	ALL
61	8512-51	Thermostat - R.S.	ALL
62	8706-20	Vent Tube	ALL
63	8512-41	Seal Washer, Thermostat	ALL
64	8043-28	Nut, #1/2-20, Element	ALL
65	8706-6	Inlet Elbow	ALL

 $\sim$ 

~

REF NO.	PART NO.	DESCRIPTION	MODEL(S)
66	8514-68	Tank cover - S/A	ALL
67	8043-83	Hi-Limit Thermo	9102
68	8043-12	Gasket, Tank Cover	ALL
69	8543-73	Screw, #4-40 hex	ALL
70	8543-74	Nut, #4-40 11/2" Lg	ALL
71	8706-68	Water Inlet Tube	ALL
72	8760-44	Tank Element, 4200W, 240V	9104
73	8043-506	Acorn Nut, #8-32	ALL
74	8942-92	Nut, Hex Keps, #8-32	ALL
75	9102-23	Bracket, Tank Mtg.	ALL
76	9102-32	Tank Assembly	ALL
77	8593-44	Drain Cap	ALL
78	6440-1	Seal, Drain Tube	ALL
79	9102-34	Front Panel - Auto.	ALL
80	8706-75	Plug Button - Large	ALL
81	8033-60	Plug Button - Small	ALL
82	9102-20	Base Cover	ALL
83	8572-18	Warmer Element, 100 W, 120 V	ALL
84	8704-20	Retainer, Warmer Element	ALL
85	6440-57	Nut, #1/4-20 Hex	ALL
86	9102-16	Bottom Panel Assembly	ALL
87	6407-10	Screw, #10-32 x 1/4", Lg	ALL
88	9102-49	Faucet Support	ALL
89	8861-16	Nut Hex, Keps, #6-32	9104

<u>REF NO.</u>	PART NO.	DESCRIPTION	MODEL(S) <u>USED ON</u>
90	8552-50	Hi-Limit Thermo., Manual Reset	9104
91	7200-6x	Screw, 8-32 x 5/16 Lg	9104
92	8718-48	Bracket, Hi-Limit	9104
93	8861-23	Screw, #8 x 3/8", Lg	ALL
94A	9102-35	Body & Base S.A.	9102
94B	9104-35	Body & Base S.A.	9104
95	9102-28	Timer, 120V, with Dial & Knob	ALL
96	8516-1500	Leg, Black Plastic, 4" Lg.	ALL
97	8552-18	Terminal Block	9104
98	616-5	Screw, #6-32 x 3/4", Lg.	9104
99	9102-22	Cover, Base Back	ALL
100	8574-10	Back Cover - Electrical	9104
101	SA 9052	Strainer	ALL
102	9102-53	Back Cover - Electrical	9102
103	35-210	Cord Grip - Heyco	9102
104	6407-15	Cord & Cap Assembly	9102
105	9102-41	Brew Chamber Assembly	ALL

22

.

.





#### **REPLACEMENT PARTS LIST** MODEL NO. 9105 SATELLITE

REF. NO.	PART NO.	DESCRIPTION
1	9105-2	SATELLITE COVER ASSEMBLY
2	9105-21	BODY AND TANK WELD ASSEMBLY
3	9105-10	SHOULDER SCREW
4	7200-6X	#8-32 x 5/16 PN. P. SS
5	9105-17	WASHERS, BELLEVILLE
6	9105-5	LATCH, SATELLITE COVER
7	8705-2	NYLON WASHER
8	9105-15	BUTTON-LATCH STOP
9	9105-11	HANDLE
10	9102-22	BUSHING
11	9105-20	FAUCET AND SIGHTGLASS ASSEMBLY

# REPLACEMENT PARTS LIST FOR FAUCET ASSY. ONLY - PART NO. 9105-20

REF. NO.	PART NO.	DESCRIPTION
12	8600-17	SHIELD CAF
13	8700-25 J	CAP WASHER
14	8600-20	GAUGE SHIELD (ALUMINUM)
15	8600-22	SHIELD GLASS
16	8705-11 B	BASE WASHER
17	8705-11 G	SHIELD BASE
18	8600-24	SHANK ASSEMBLY
19	8705-11 L	UPPER ASSEMBLY-BLACK BONNET
20	8700-25 L	SEAT CUP
21	9105-30	FAUCET BODY
22	9105-25	FAUCET BODY ASSEMBLY



#### REPLACEMENT PARTS LIST MODEL NO. 9106 WARMER

REF NO.	PART NO.	DESCRIPTION
1	9102-49	FAUCET SUPPORT BRACKET
2	6407-19	SCREW, #10-32 x 1/4 LONG
5	8765-8	LABEL
4	6710-23	ON-OFF SWITCH. 120V
5	9106-4	BOTTOM PLATE SUB-ASSY
6	8543-52	SCREW, #8 x 3/8
7	8033-55	LEG LEVELER
8	8033-56	LEVELER CAP
9	8201-5	HEX. NUT, #10-32 x 1/4
10	8703-26	RETAINER
11	8572-18	HEATING ELEMENT
12	9106-7	TOP AND BODY SUB-ASSY
13	35-210	CORD GRIP
14	8841-8	CORD AND CAP ASSY



#### Warranty

For a period of one (1) year from date of installation, all defective parts on Bloomfield equipment will be replaced free of charge, providing parts did not become defective through accident, neglect, improper installation, mishandling or damage in transit. The service necessary to replace these defective parts will also be free of charge, provided this service is performed by an authorized BLOOMFIELD service station, wherever authorized service is available.

#### BREWER WARRANTY IS VOID IF:

Other than genuine Bloomfield replacement parts are used.

Brewer is plugged into voltage other than specified on serial plate.

Recommended Bloomfield servicing procedures are not followed.

#### How to Order -

Individual uses and owners must order replacement parts thru their distributors or the local authorized service station.

Terms - Prices, terms, designs, materials, weights, specifications and dimensions for equipment or parts are subject to change without notice.

# Service Information - To obtain service assistance in addition to that contained in this manual, call Bloomfield's toll free number (800) 621-8556.

Be prepared to give the Model and Serial Numbers of your brewer, as well as the problem and the trouble-shooting steps already taken, to the service technician when calling for assistance.