

COFFEE BREWER WITH INDEPENDENT HOT WATER DRAW FAUCET
BLOOMFIELD MODELS 8783EX

MANUFACTURED
by

BLOOMFIELD

BLOOMFIELD INDUSTRIES
2 Erik Circle
P.O.Box 280
Verdi, NV 89439 U.S.A.
Fax (800) 356-5142
Phone (702) 345-0444

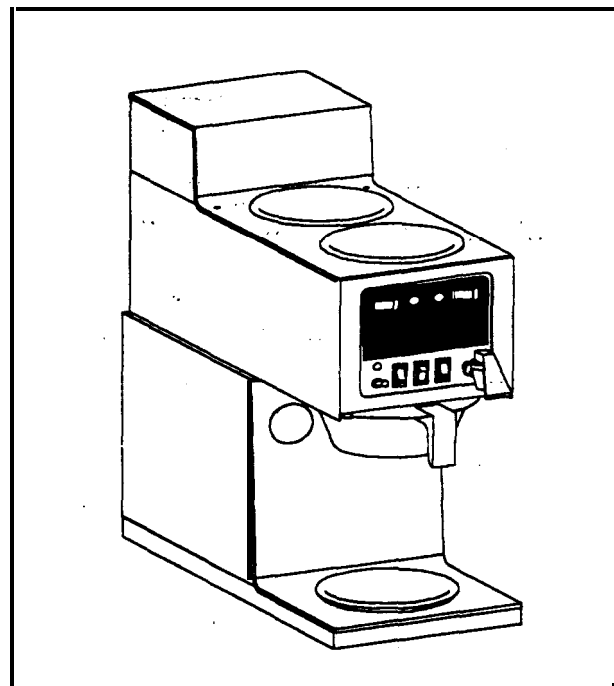


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'BLOOMFIELD MODEL 8783EX
AUTOMATIC COFFEE BREWER
WITH INDEPENDENT HOT WATER DRAW FAUCET

Thank you for purchasing a Bloomfield Coffee Brewer? You will achieve maximum performance from this unit if you familiarize yourself with its many outstanding features.

Please take a few minutes to read through the owner's manual. Proper installation is very important if maximum performance and satisfaction are to be achieved.. If you have any difficulties, consult your nearest Bloomfield' Authorized Distributor. -They have the required expertise to provide the proper advice and assistance. If the Bloomfield Distributor is unable to assist you, please contact the factory directly.

Please be certain the electrical connections are compatible, as improper connections could damage the brewer and void the warranty.

Safe and satisfactory operation of your Bloomfield Brewer depends to a great extent upon its proper installation. This coffee brewer must be installed without alteration and in accordance with these printed instructions and applicable electrical codes. The performance and safety of the brewer can be greatly impaired if it is altered in any way, or if installation deviates from the instructions printed herein.

MODEL 8783EX COFFEE-BREWER WITH HOT WATER FAUCET:

Manufactured by Bloomfield Industries, Inc., is designed to brew a decanter of coffee at the press of a switch and to hold 3 decanters of hot beverage at the correct temperature for serving.

- Operates on 20 Amps, 3900 Watts, 240 Volts, 50/60 Hz service.
- Requires a water flow rate of 1 gallon (41) per minute at a minimum pressure of 30 PSI. (2,0 bars).
- Brews 56 fl. oz. (1656 ml) of coffee in approximately 4 minutes.
- "Energy saver" main heater ON/OFF switch conserves energy.
- Hot water faucet mounted on the front of the brewer allows draw off of hot water for hot beverages or decanter rinsing purposes at anytime without affecting the coffee brew volume.
- Adjustable rubber feet on brewer for easy leveling.
- "Coffee System" light to indicate proper water temperature to insure uniform quality of brewed coffee.
- "Faucet System" light to indicate proper water temperature for Hot Water Draw Faucet.
- Lighted switches for warmers to make it easy to see if they are ON or OFF.
- Porcelain-enameled spin ON/OFF warmer plates, designed to prevent spills into interior of brewer, and easy cleaning.
- Exclusive "water spray disc" with 12 holes. Water drips slowly and gently over the coffee grounds, causing a floating action and complete saturation of all the coffee grounds.
- Factory pre-set thermostat so brewer is ready for operation on installation.
- Triple tested Thermostats with stainless steel water sensing probe.
- 2-minute solid state timer.
- Teflon color coded wiring, keyed to color tabs at connection points.

SAFETY

Knowledge of proper procedures is essential to the safe operation of electrically energized equipment. In accordance with generally accepted product safety labeling guidelines for potential hazards, the following four signal words are used throughout this chapter.

DANGER: Danger is used to indicate the presence of a hazard which will cause severe personal injury; death; or substantial property damage in the event the statement is ignored.

WARNING: Warning is used to indicate the presence of a hazard which can cause severe personal injury, death, or substantial property damage in the event the statement is ignored.

CAUTION: Caution is used to indicate the presence of a hazard which will or can cause minor personal injury or property damage in the event the statement is ignored.

NOTE: Note is used to notify personnel of installation, operation or maintenance information which is important, but not hazard related.

NOTE: This piece of equipment is made in the USA and has American sizes on hardware. All metric conversions are approximate and can vary.

BLOOMFIELD INDUSTRIES

MODEL 8783EX COFFEE BREWER WITH INDEPENDENT HOT WATER DRAW FAUCET

READ THIS COMPLETELY BEFORE STARTING THE INSTALLATION

PRE-INSTALLATION INSTRUCTION

To enable the installer to make a quality installation and hold delay time to a minimum, the following suggestions and tests should be done-before the actual unit installation is begun.

CHECK THE WATER SERVICE THAT WILL FEED THE UNIT

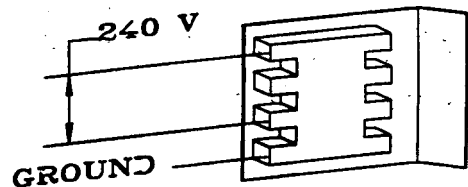
1. The Coffee Brewer should have a recommended in-line filter.
2. Check the termination of the water line where the Brewer will stand. The water line must terminate in a 3/8" MNPT fitting. The unit water flex-line packed in the unit carton connects to it. Be sure to use pipe thread tape on the fitting to prevent a water leak. Do not *use* the many varieties of liquid or paste pipe dope, as it may leech out of the threads, pass into and damage the unit.
3. Turn on the water.
4. After the flex-line is connected to the water source, the volume of water delivery must be checked.
 - A. Depress the spring loaded end fitting of the flex-line.
 - B. Run the full volume into a bucket for one (1) minute.
 - C. One (1) gallon of water (4 Liters) must flow into the bucket in the one (1) minute flow cycle. More is acceptable, but less will result in short brew volume.
 - D. Water pressure must be maintained between 30 P.S.I. (2,0 bars) and 85 P.S.I. (5,8 bars) pump pressure. During brewing cycles the pressure may drop somewhat, however, it must not drop below 30 P.S.I., or erratic brew volumes will result.

CHECK THE ELECTRIC SOURCE THAT WILL FEED THE UNIT:

1. Check the power source and the circuit breakers.
 - A. The power source must be a 20 Amp, Single Phase Circuit wired for wire 240 volts plus ground.
 - B. Circuit Breakers in the control cabinet must be of minimum 20 Amp rating.

TERMINAL JUNCTION BLOCK

DETAILS FOR 20 AMP
FIELD WIRED UNITS



NOW THE UNIT MAY BE SET IN PLACE.

1. BE SURE TANK HEATER SWITCHES AND MAIN SWITCH ON BACK ARE "OFF"
2. FOLLOW PLUMBERS INSTRUCTIONS BELOW.
3. FOLLOW ELECTRICIAN'S INSTRUCTIONS BELOW..

LEVELING THE UNIT

For proper unit operation, it is very important that the unit be level when it is standing in its proper operation position. A spirit level should be placed on the top plate of the unit, at the edge, as a guide when making level adjustments. Level the unit from left to right and front to back by turning the adjustable feet that support the unit.

YOU ARE NOW READY TO FILL THE TANK WITH WATER.

1. FOLLOW INITIAL OPERATION INSTRUCTIONS.

PLUMBER'S INSTALLATION INSTRUCTION

CAUTION: Power to Brewer must be OFF before proceeding with plumbing installation.

1. Flush water line before connecting to Brewer. Brewer should be connected to COLD WATER line.
2. For less than 8 meter water run, use 7 mm line. For more than 8 meters use 10 mm line.
3. Water pressure should be at least 30 P.S.I. and flow at one gallon (4 Liters) per minute. (If less than 30 P.S.I. (2,0 bars), erratic delivery will result.)
4. A water shut-off valve should be installed on the incoming water line in a convenient location.

5. Connect 3/8" FNPT end of flexible water line to water source.
6. Connect the incoming water line coupler assembly to the incoming female fitting on the water strainer.
7. To delay build-up of lime deposits in water tank, we recommend the use of a Water Conditioner.

ELECTRICIAN'S INSTALLATION' INSTRUCTIONS

Brewer is supplied with a internal terminal block for field wiring, or' a 12 gauge power cord. Electrician must supply receptacle outlet, or field wiring termination.

Electrical requirements: 240 Volts AC. 50/60 hertz, 3 wire, including earth ground, single phase, 20 amp wiring required.

Warranty is void if Brewer is connected to any voltage other than specified above.

WARNING: Brewer must be properly grounded to prevent possible shock hazard. DO NOT assume a plumbing line will provide such a ground.

1. Energy Saver Switches on front of Brewer are to remain in OFF position until plumbing is connected and Brewer is initially filled with water.
2. Electrical service line cord is not supplied.
3. Connect to power source.
4. After connecting service as specified, test the voltages on the field wired side with a volt meter.
5. If plumbing connection has been made, the Brewer is now ready for "Initial Operation Instructions." If plumbing is to be done later, be sure power is "OFF" and Brewer is not connected to outlet or power source.

INITIAL OPERATING INSTRUCTIONS

Electrician's and Plumber's Instructions should be followed carefully before proceeding with Initial Operating Instructions.

Be sure all electrical and plumbing connections are tight:

1. Open water inlet valve.
2. Make sure Energy Saver Switches and Main Switch are "OFF".
3. Connect electricity, turn "ON" Main Switch.
4. Hot water tank should start to fill; probe in faucet tank will shut-off water when full.
5. Place empty Decanter in brewing position.
6. Place empty Brew Funnel into brew rails.

7. Press "Brew" Switch. Repeat a second time, allowing two (2) minutes between cycles. Water will begin to flow through brew funnel into Decanter during second cycle.
8. Turn Energy Saver Switches to ON. On initial warm up, some water may flow into the brew funnel due to expansion of cold water in the Tank.
9. Allow 20 minutes for initial water heat up. Time will vary with incoming water temperature. -This applies to both coffee brewing tank and hot water tank.
10. When correct brewing temperature is reached, READY LIGHT will come on. Make sure Decanter is empty. Press Brew Switch and run a cycle of hot water. only. At the end of the cycle, Brewer will be ready for checking timer adjustment.
11. Draw off sufficient quantities of hot water from faucet to check refill cycle of tank. Refill should be initiated after approximately 6 oz. of hot water has been dispensed.
12. The Solid State Timer is pre-set at the factory for 37 seconds for water flow of 60oz. of water into the basin pan. Timer adjustment is located behind front panel on upper left. To adjust, remove snap-in plug and turn dial clockwise to increase timer (water volume), or counter-clockwise to decrease timer (water volume).
13. Replace snap-in plug.
14. The Thermostats are calibrated at $198^{\circ} - 202^{\circ}\text{F}$. The thermostat adjustments are located on the side of the unit. (See figure 1) To adjust, first remove snap-in plug, then turn shaft clockwise to increase temperature, or counter-clockwise to decrease temperature.
15. Brewer is ready for use.

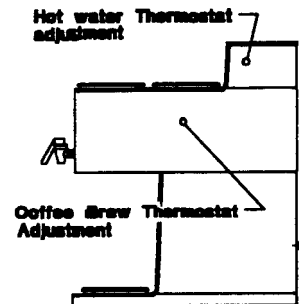


Figure 1

ORDERING/SERVICE PROCEDURE

Use only genuine Bloomfield replacement parts in this brewer. The use of replacement parts other than those supplied by Bloomfield voids the warranty.

To find the parts required to restore proper operation to the coffee brewer, proceed as follows:

1. Refer to the exploded views located in this chapter to identify the parts needed.
2. Use the item number from the exploded views to locate the corresponding parts in the parts identification and function of this chapter.

Ordering Information - Once the parts needed are known, record the following information from the identification section:

Part Number
Description
Quantity

How to order - For immediate shipment, call your local BLOOMFIELD INDUSTRIES Parts Distributor.

Service Information - To obtain service assistance in addition to that contained in this chapter, call BLOOMFIELD in the U.S. at (702) 345-0444.

Be prepared to give the model and serial numbers of your brewer, as well as the problem and the troubleshooting steps already taken, to the service technician when calling for assistance.

TROUBLESHOOTING

It is very important, when servicing equipment to:

1. Define the basic problem
2. Isolate the probable cause
3. Take corrective action regarding those items hampering proper operation of the equipment.

It is usually relatively easy to define the basic problem, but sometimes very difficult to pinpoint the precise cause.

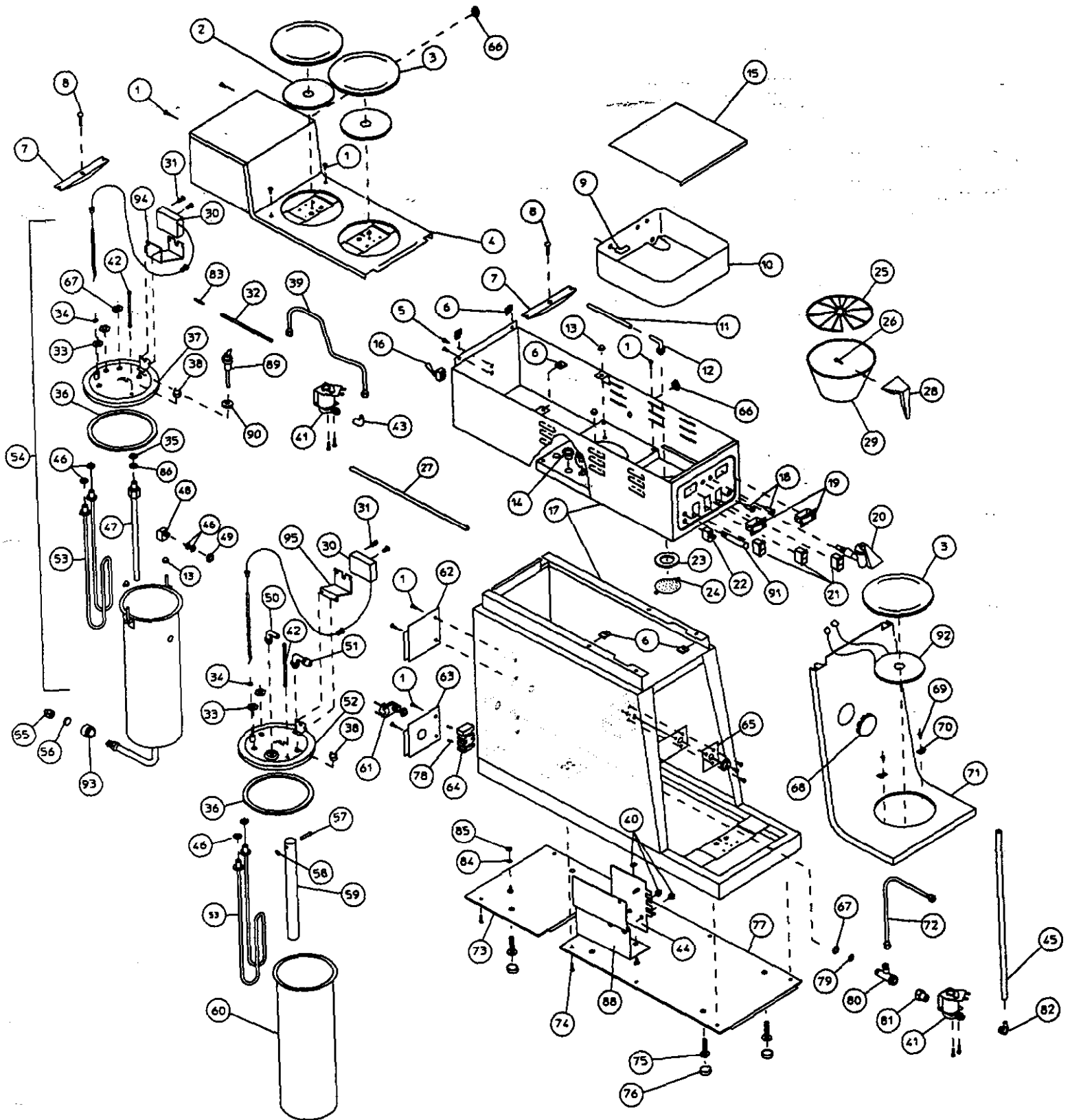
A Troubleshooting Guide is provided in this manual to suggest probable causes and corrective actions for each. Obviously, if the cause is not isolated and corrected, proper operation of the equipment cannot be restored.

Should the problem remain after exhausting the troubleshooting steps suggested, refer to the Order/Service Information section of this chapter.

WARNING: Inspecting, testing and repair of electrical equipment should be performed only by qualified service personnel. The brewer should be unplugged when servicing, except when electrical tests are required.

DANGER: Use extreme care during electrical circuit test. Live circuits will be exposed.

8783EX EXPLODED VIEW



PARTS LIST FOR 8783EX

ITEM	PART NO.	DESCRIPTION	QTY
1	8543-52	SCREW PHL SS 8-32 X 3/8	6
2	8533-32	ELEM WARMER 100W	2
3	8700-16	WARMER COVER PLATE	3
4	8783-5	BASIN COVER SUB ASSEMBLY	1
5	7200-6X	SCREW 8-32 X 5/16	2
6	8543-23 -	NUT TINNEMAN #8	20
7	8043-5	HOLD DOWN STRAP	2
8	8043-47	SCREW PAN10-32 X 1	2
9	8540-30	ELBOW POLYPROPYLENE	1
10	8781-46	PAN BASIN	1
11	8043-26	TUBE OUTLET WATER	1
12	8043-13	ELBOW SPRAYER	1
13	8043-506	NUT ACR SS 8-32	4
14	8543-69	BUSHING 7/8 HEYCO	3
15	8718-9	COVER BASIN PAN	1
16	50330	ON/OFF SWITCH	1
17	82254	BASIN BODY & BASE ASSY	1
18	8738-2	LIGHT PILOT GREEN 250V	2
19	8726-4	SWITCH TANK HEATER	2
20	8783-1	FAUCET HOT WATER	1
21	8563-110	SWITCH ON/OFF LTD 240V	3
22	8572-24	SWITCH BREW START	1
23	8543-42	GASKET SPRAY HEAD	1
24	8543-44	DISC SPRAYER STD	1
25	8707-4	RACK WIRE BREW CHAMBER	1
26	8707-3	SCREW 10-32 X 5/16	1
27	8783-23	HOSE HOT WATER FAUCET	1
28	8707-2	HANDLE BREW CHAMBER	1
29	8707-5	BREW CHAMBER	1
29A	8707-6	BREW CHAMBER ASSY	1
30	8512-51	THERMOSTAT	2
31	3-100	SCREW 6-32 X 1/4	4
32	8043-15	TUBE VENT	1
33	8043-28	NUT HEX BR 1/2-20	4
34	8512-41	WASHER THERMO SEAL	2
35	8942-33	GASKET	1
36	8043-12	GASKET TANK COVER	2
37	8783-34	TANK COVER WELDED ASSY	1
38	82956	THERMOSTAT HI-LIMIT	2
39	8783-20	TUBE ASSY	1
410	18-302	NUT HEX 8-32	3
41	8726-1	SOLENOID VALVE 240V	2
42	8706-20	TUBE VENT LONG	2
43	8541-48A	FITTING 90 DEG. ELBOW	1
44	82111	CIRCUIT BOARD	1
45	8516-142	TUBE INLET HOSE	1
46	8043-30	GASKET ELEM HTG	6
47	8783-26	TUBE FILL	1
48	8812-41	ELBOW OUTLET	1
49	7510-22	NUT HEX BR 1/2-24	1
50	8043-11	ELBOW OUTLET	1
51	8043-8	ELBOW INLET	1
52	82959	TANK COVER ASSY	1
53	8053-1B	ELEMENT 240V 1800W	2
54	8783-21	HOT WATER TANK ASSY	1
55	8593-44	CAP DRAIN PLATE	1
56	67183	CAP DRAIN SEAL HD	1

ITEM	PART NO.	DESCRIPTION	QTY
57	8543-73	SCREW PAN4-40 X 1 1/2	1
58	8543-74	NUT HEX 4-40	1
59	8043-24	TUBE WATER INLET	1
60	8043-10	TANK FAUCET	1
61	8706-109	FTG CONDUIT (8783MCD & EX)	1
62	8783-16	COVER BACK SOLENOID	1
63	9104-53	COVER BACK ELECT	1
64	8552-18	TERMINAL BLOCK	1
65	8738-1	TIMER 240V 2 MIN	1
66	8033-60	PLUG BUTTON 3/8	1
67	8710-10	NUT HEX BR 7/16-20 X 1/8	1
68	8706-75	BUTTON PLUG 2 INCH	1
69	7506-30	SCREW 8-32 X 3/8	2
70	8543-80	CLIP MOUNTING	2
71	8783-10	PANEL FRONT	1
72	8783-19	TUBE ASSY	1
73	8783-15	PLATE BOTTOM REAR ASSY	1
74	8861-23	SCREW PHL 8-32 X 3/8	8
75	8033-55	LEVELING LEG	4
76	8033-56	CAP LEG LEVEL	4
76A	81732	LEG LEVEL ASSY	4
77	8718-61	PLATE BOTTOM FRONT	1
78	616-5	SCREW 6-32 X 3/4	2
79	8551-100B	WASHER 7/16 EXTERNAL	1
80	8551-35	FITTING INLET T	1
81	8706-102	FITTING REDUCER ADAPTOR	1
82	9102-8	ELBOW 1/4 FPT/HOSE	1
83	8783-27	CONNECTOR HOSE	1
84	82148	WASHER LOCK INT 1/2 ID	1
85	8201-5	NUT HEX 10-24	1
86	8551-53	WASHER SS 7/16 ID	1
87	8783-31	NUT HEX BR 1/8-27	1
88	82112	BRACKET CIRCUIT BOARD	1
89	82114	PROBE	1
90	82115	GROMMET 1/4 ID	1
91	82122	LIGHT PILOT RED	1
92	82529	ELEM WARMER 100W W/WIRE	1
93	82260	NUT RETAINER	1
94	82562	BRK THERMOSTAT WATER TNK	1
95	82563	BRK THERMOSTAT BREW TNK	1

