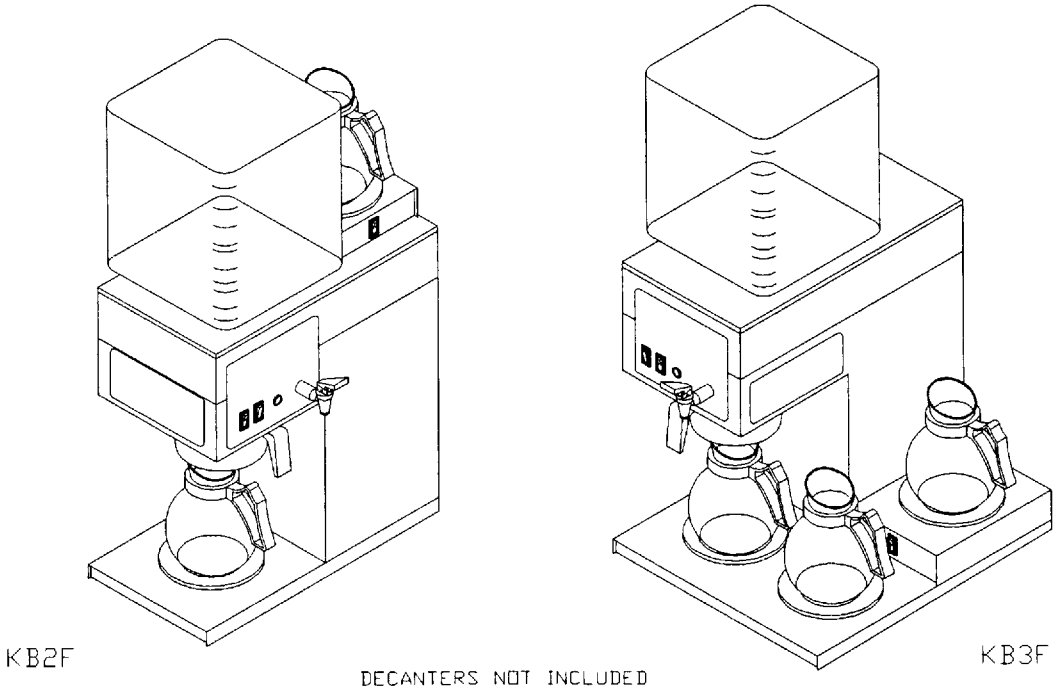
Man P.N. 781224
Rev. 4-95 DS

NEWCO ENTERPRISES

INSTALLATION, OPERATION, AND SERVICE MANUAL FOR KB SERIES BOTTLED WATER BREWERS



KB2F

DECANTERS NOT INCLUDED

KB3F

Model	Warmers	Width	Length	Height	Weight	Watts	Amps
KB1-1F	1	9-1/2"	18"	20-1/8"	34	1500	13.6
KB2-2F	2	18"	9-1/2"	22-3/8"	39	1600	14.5
KB3-3F	3	16-1/2"	18"	20-1/8"	43	1700	15.4

INSTALLATION INSTRUCTIONS

WARNING - Read and follow installation instructions before plugging or wiring in machine to electrical circuit. Warranty will be void if unit is connected to any voltage other than that specified on the name plate.

FILL BREWER TANK WITH WATER BEFORE CONNECTING TO POWER SUPPLY !

1) Place bottle on top of brewer with neck of bottle extending into receiving hole.
2) Hold faucet open until water flows from it. Allow one minute for automatic leveling of water in tank. Plug or wire brewer to appropriate voltage circuit as indicated on serial tag. Place decanter under brew basket and turn lower warmer switch to the ON position. Depress brew start switch & check volume of water delivered into decanter. Adjust timer to deliver desired amount of water. Turn timer dial clockwise to increase volume of water, and counter clockwise to decrease volume.
3) Allow 10 to 15 minutes for water in tank to heat to brewing temperature. Water has reached brewing temperature when thermostat clicks off and heating noise stops. Green ready light will be lit on models so equipped. Empty decanter and replace.
4) Run one cycle to check for the proper temperature setting with an accurate thermometer. Take the temperature of this water at a point below the brew basket opening, at the start of the brew cycle and when the decanter is half full. Recommended temperature of the water is approximately 195 F.
5) In higher altitude locations (5000 feet above sea level) the thermostat may have to be adjusted lower to prevent boiling.
6) CAUTION: On faucet models the water faucet will dispense hot water when the handle is depressed. The faucet may be operated during brew cycle.

COFFEE PREPARATION PROCEDURES

1) Place filter into brew basket.
2) Put the proper amount of coffee into the filter.
3) Slide the brew basket into holder.
4) Place empty decanter on warmer located directly under the brew basket and turn corresponding warmer switch to ON position.
5) Press brew start switch. (Brew cycle may be cancelled by turning the rocker switch back to the off position.)
6) Hot water will be delivered through the sprayhead. This distributes the hot water evenly over the coffee bed within the brew basket. The coffee brew will drain from the brew basket into the decanter below.
7) The resultant coffee brew should be crystal clear and have the desired properties attainable through excellent extraction.
8) TURN OFF WARMER WHEN NOT IN USE. (Red light indicates warmer is on.)
9) To clean brew basket simply remove from brew rails and dump filter into waste basket. The brewing process, as described above, can now be started again.
10) On units with a "CHANGE BOTTLE" light, this indicator will come on at any time the bottle empties. The bottle should be changed at this time. The brewing circuitry will be disabled until bottled water supply is repenished.

KB SERIES BREWERS - PARTS LIST

TANKS

781178	Tank ass'y, KB1F & KB3F
781287	Tank ass'y, KB1 & KB3
781219	Tank ass'y, KB2F
781287	Tank ass'y, KB2
781217	Recieving tank/bracket ass'y w/o probe
781194	Recieving tank/bracket ass'y w probe
100033	Element main heating, 1400 watt
100633	Hi-limit thermostat, A-AF
781181	Gasket, recieving tank

WARMING PLATES

100008	Plate, black porcelain
100010	Warming plate ass'y, black
100020	Plate, brown porcelain
100032	Warming plate ass'y, brown
100187	Warming Element, 100 watt

BREW BASKETS AND RAILS

700117	Brew basket ass'y, brown wide base
700118	Brew basket ass'y, black wide base
700119	Brew basket ass'y. black narrow base
700120	Brew basket ass'y, brown narrow base
781030	Brew rail, RH
781031	Brew rail, LH

CONTAINERS

100550	Decanter, glass 12 cup

MISCELLANEOUS PARTS

102770	Faucet w/ red handle
152114	Solenoid valve, Deltrol
152130	Valve repair kit, Deltrol
100024	Sprayhead, S/S 5 hole
100025	Sprayhead gasket
201173	Sparyhead nut
101365	Timer only
781195	Liquid level (chnge bottle) control
781196	Timer/probe harness KB with Probe
781211	Timer harness only (w/o probe)
100022	Power cord ass'y, 14/3
100038	Main thermostat ass'y
201985	Brew switch, black, rectangular
100085	Lighted rocker switch (red)
781212	KB Ready light ass'y, green
201189	KB change bottle light ass'y, red
100078	Bumper foot with screw

WARRANTY

Newco coffee brewers are warranted against defects in workmanship or materials, under normal use, for 90 days from the date of purchase. Brewer parts are warranted against defect for 12 months from date of purchase.

Liability in all events is limited to the purchase price paid and liability under the aforesaid warranty is limited to replacing or repairing any part or parts which are defective in material or workmanship,and returned to our factory, shipping cost prepaid. No warranty expressed or implied, other than the aforesaid is made or authorized by Newco Enterprises, Inc.

Prompt disposition will be made if item proves to be defective, within warranty. Before returning any item, write or call Newco, or the dealer from whom the product was purchased, giving model number, serial number, and date of purchase, and describe nature of the defect. If damage was incurred during transit to you, file claim with the carrier.

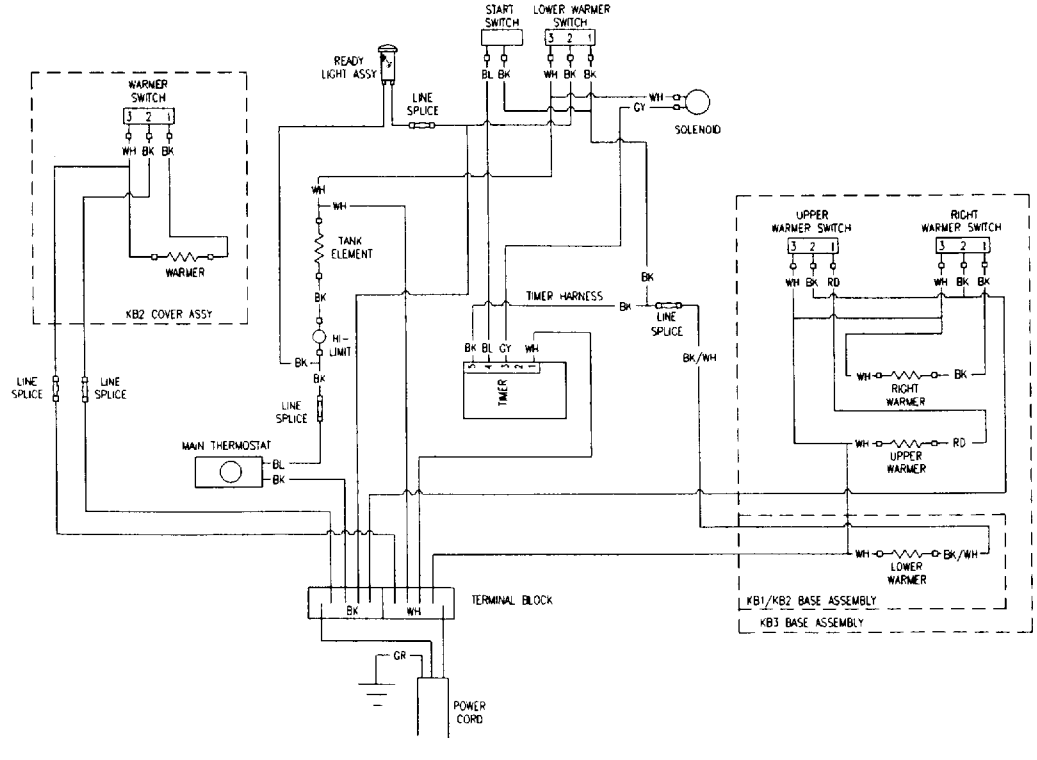
TROUBLE SHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE	WHAT TO CHECK	REMEDY
CAN'T START BREW CYCLE	1. No Water.	1. Water bottle is empty.	1. Replace empty bottle with new one.
	2. No power.	2. Fuse or circuit breaker. Power cord and plug connections.	2. Replace or reset circuit protector as req'd. Unit should be plugged in securely.
	3. ON/OFF switch.	3. Switch continuity. (Normally closed 1 & 2)	3. If ON/OFF switch does not make and break contact, replace ON/OFF switch.
	4. Brew start switch.	4. Switch continuity. (Normally open)	4. If brew start switch does not make and break contact, replace brew start switch switch.
	5. Timer/Timer harness. Timer/probe & harness.	5. Leads to solenoid, switches, and level sensor probe.	5. Make sure these connections are tight. If so, and all else checks out ok, replace timer.
	6. Solenoid valve.	6. (A) Voltage at solenoid valve terminals. Start a brewcycle and check for 120 volts A.C.	6. (A) If voltage is not present at terminals refer to steps 2 through 5.
		(B) If voltage is present at terminals, check for water on the inlet side of solenoid valve.	(B) If voltage is present at terminals and water is present on the inlet side of the solenoid, but not present on the outgoing side, replace solenoid.
NO HOT WATER	1. Tank heater.	1. Check the voltage at the tank heater terminals. Voltage should be as indicated on the serial tag (located behind the brew basket.)	1. (A) If correct voltage is present at the tank heater terminals and water in tank is not being heated, replace the tank heater.
			(B) If voltage is not present at the tank heater terminals refer, to Step 2.
			(C) If incorrect voltage is present at the tank heater terminals, check voltage at outlet.
	2. Hi-limit thermostat or main thermostat.	2. Check the voltage between the white wire on the tank and the incoming terminal (blue wire) on the hi-limit thermostat, then the outgoing terminal (black wire) on the hi-limit thermostat.	2. (A) If voltage is present on the incoming terminal of the hi-limit thermostat, but not on the outgoing terminal, replace the hi-limit thermostat.
			(B) Check voltage between black and white wire on the receptacle. If voltage is not present, check outlet or circuit breaker.
			(C) If voltage is not present on the incoming terminal of the hi-limit thermostat, replace the main thermostat.
STEAMING OR SPITTING AROUND FUNNEL	1. Main thermostat.	1. Thermostat points stuck or out of calibration.	1. (A) Adjust thermostat.
			(B) Thermostat should be calibrated or replaced.
	2. High altitude.	2. Located above 5,000 feet.	2. See installation instructions.
FAUCET WATER TOO SLOW	1. No Water.	1. (A) Water bottle.	1. (A) Replace empty bottle with full one.
		(B) Faucet clogging.	(B) Clean or rebuild faucet.
DRIPPING	1. Not siphoning properly.	1. Water should flow freely from the sprayhead.	1. (A) Clean sprayhead holes.
			(B) Check tightness of sprayhead tube.
DRY COFFEE REMAINING IN BREW BASKET AFTER BREWING	1. Filters.	1. Are correct filters being used.	1. Insert correct filter.
	2. Not siphoning properly.	2. Refer to "DRIPPING", Step 1.	2. Refer to "DRIPPING", Step 1.
	3. Improper loading of the brew basket.	3. Filter and coffee in brew basket.	3. Filter should be centered in the brew basket and coffee bed should be level.

TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE	WHAT TO CHECK	REMEDY
WEAK COFFEE	1. Filters. 2. Not siphoning properly. 3. Improper loading of brew basket.	1. Are correct filters being used. 2. Refer to "DRIPPING", Step 1. 3. Filter and coffee in brew basket.	1. Insert correct filter. 2. Refer to "DRIPPING", Step 1. 3. Filter should be centered in brew basket and coffee bed should be level.
COLD WARMER STATION (Models with warmers)	1. Warmer - defective. 2. Warmer ON/OFF Switch. 3. Bad harness.	1. Voltage at warmer terminals should be 120 volts AC. 2. If voltage is not present on warmer terminals, check continuity of switch. 3. Check connections between harness and switch, and between switch and warmer.	1. If voltage is present on terminals, but warmer will not heat, replace warmer. 2. If switch does not make and break continuity when turned off, replace switch. 3. All connections should be tight.
CONDENSATION ON INSIDE OF CABINET	1. Tank lid gasket. 2. Sprayhead tube ass'y. 3. Thermostat grommet. 4. Receiving pan nut. 5. Main thermostat set above 210 degrees.	1. Nicks or cuts in the gasket. 2. Tightness of ass'y to lid. 3. Tight fit. Nicks or cuts. 4. Receiving pan nut loose. 5. Check thermostat calibration.	1. Replace gasket. 2. Tighten sprayhead tube ass'y to tank lid. 3. Adjust or replace grommet. 4. Tighten nut. 5. Calibrate or replace thermostat.
WATER KEEPS RUNNING	1. Solenoid valve. 2. Start switch. 3. Timer	1. Refer to "DRIPPING", Step 1. 2. Remove wires from switch and check continuity. 3. Solid state timers are not repairable. If timer will not shut off, replace timer.	1. Refer to "DRIPPING", Step 1. 2. If start switch does not make and break contact, switch should be replaced. 3. Replace timer.

WIRING DIAGRAM



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