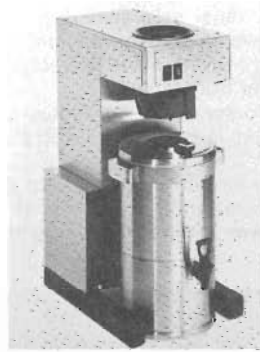


OPERATING & SERVICE MANUAL

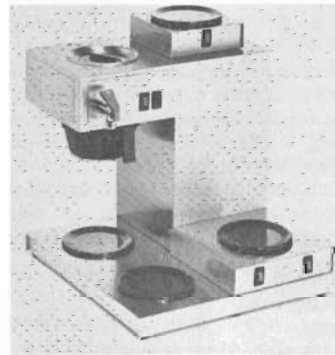
K-LINE AUTOMATIC & FAUCET MODELS

FRONT-TO-BACK	SIDE-TO-SIDE	WARMERS	AIRPOTS	TEA URN
KP1A, KP1AF	KSP1A, KSP1AF	1	0	0
KP2A, KP2AF	KSP2A, KSP2AF	2	0	0
KP3A, KP3AF	KSP3A, KSP3AF	3	0	0
KP4A, KP4AF	KSP4A, KSP4AF	4	0	0
KPPA, KPPAF		0	2	0
K3A, K3AF		3	0	0
K5A, K5AF		5	0	0
KT3		0	0	1

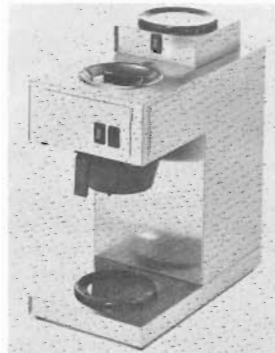
TEA BREWER (KT-3)



KSP-4AF



KP-2A



AIRPOT BREWER (KP-PA)



CONTENTS

Initial Operation Instructions	2	Conversions	8 & 9
Trouble Shooting Guide	3-6	Schematic	9
Component Replacement Instructions	7 & 8	Parts List & Fig. 2, 3, 4, 5	10 & 11

WARNING

DISCARD GLASS DECANTER IF

- CRACKED
- SCRATCHED
- BOILED DRY
- HEATED WHEN EMPTY
- USED ON HIGH FLAME OR OPEN ELECTRIC ELEMENTS.

FAILURE TO DO SO MAY RESULT IN BODILY INJURY

PLUMBER'S INSTALLATION INSTRUCTIONS

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

1. Flush water line before installing brewer. Brewer should be connected to COLD WATER LINE for best operation.
2. Water pressure should be at least 20 lbs. For less than a 25 ft. run, use 1/4" copper tubing & connect to 1/2" or larger water line. For more than 25 ft. run, use 3/8" copper tubing & connect to 1/2" or larger water line, and provide an adapter fitting for connection to the brewer.
3. If installed with saddle valve should have minimum of 1/8" port hole for up to 25 ft., and 5/16" port hole for over 25 ft.
4. Connect incoming water line to the incoming male fitting on the back of brewer. Manufacturer recommends connecting to copper tubing.

INITIAL OPERATION INSTRUCTIONS

WARNING: — Read & follow initial operation instructions before plugging or wiring in machine to electrical circuit. Warranty will be void if machine is connected to any voltage other than that specified on the serial plate.

Newco automatic coffee brewers are designed with the feature of brewing as a pour over, except models K3A, K3AF, K5A and K5AF.

ALL MODELS (EXCEPT KT-3 TEA BREWER)

1. BEFORE PLUGGING OR WIRING BREWER INTO PROPER VOLTAGE CIRCUIT: Place empty decanter under brew basket. For airport brewers, open airport lid and remove stem from airport. Place airport under brew basket. Brewer must be manually filled by pouring three decanters (180 oz.) of water into top pour-in assembly. Water should come through brew basket as third decanter drains out of pour in basin. If brewer does not have pour in dish, models K3A, K3AF, K5A and K5AF remove top cover of brewer and pour 3 decanters of water into pour in basin.
2. Adjust timer to deliver desired amount of water. To brew into a regular 60 oz. decanter little adjustment should be needed. For brewing with the airport brewer into a 72 oz. airport the adjustment should be increased. To increase amount of water, increase time of water flow by turning timer dial slightly clockwise. To decrease amount of water, decrease time of water flow by turning time dial slightly counter clockwise.
3. Return power to the brewer.
4. Allow 10-15 minutes for water in tank to heat to brewing temperature. (Additional water may drip from brew basket on initial expansion of water in tank, this will not occur thereafter.) If brewer has ready light, brewer is ready when light is on.
5. After water has reached brewing temperature (thermostat will click off and heating noise will stop), place empty decanter under brew basket. Depress start switch & run a cycle of water to remove expanded water from tank.
6. Run one cycle to check for proper temperature with an accurate thermometer. Take the temperature of this water at a point below the brew basket opening, at the start of the cycle and when the decanter is half full. Recommended temperature of the water is approximately 195 degrees Fahrenheit.
7. Due to higher altitude locations (5,000 ft. above sea level) — thermostat may have to be re-adjusted to prevent boiling.
8. CAUTION: On faucet models the water faucet will dispense hot water when handle is depressed. The faucet system is independent of the brewing system and can be operated during the brew cycle. Once brewer is pressurized operate faucet until water flows smoothly.

MODEL KT-3 (TEA BREWER)

1. Remove back panel from brewer.
2. Place tea urn under brewer.
3. Fill tank with water by pouring 3 decanters (180 oz.) of water into receiving pan. Some water will flow through sprayhead. Empty tea urn.
4. Plug in brewer. Close needle valve (Fig. 5A) in tea brewer control panel by turning clockwise.
5. Set timer (Fig. 5B) to 180 seconds. Start brew cycle by pressing start switch.
6. Tea urn should fill with one brew cycle. If not, adjust timer until desired level in tea urn is achieved (3 gallons).
7. Open needle valve by turning counter clockwise 3 to 4 full revolutions. This will give 2 gals. of cold water flowing through dilution tube and 1 gal. of hot water concentrate through sprayhead.
8. Replace back panel.

LIMING

To prevent liming problems in tank fittings remove sprayhead and insert deliming spring all the way into the tank. When inserted into tank properly, no more than ten inches of the spring should be visible at the sprayhead fitting. Saw back and forth five or six times. This will keep fittings open and clear of lime. In hard water areas this should be done every day; this takes less than a minute. In all areas sprayhead should be cleaned at least once a week. Time involved is about thirty seconds. Where bad liming has already occurred, a new complete tank assembly can be installed in five minutes.

MODEL	DIMENSIONS			WEIGHT	ELECTRICAL		
	WIDTH	LENGTH	HEIGHT		WATTS	AMPS	WARMERS
KP1A	9½"	18"	17½"	33	1400	13.5	1
KP2A	9½"	18"	20½"	35	1500	14	2
KP3A	19"	18"	17½"	41	1600	14.25	3
KP4A	19"	18"	20½"	45	1700	15	4
KP1AF	9½"	18"	17½"	36	1400	13.5	1
KP2AF	9½"	18"	20½"	38	1500	14	2
KP3AF	19"	18"	17½"	46	1600	14.25	3
KP4AF	19"	18"	20½"	49	1700	15	4
KSP1A	18"	9½"	17½"	33	1400	13.5	1
KSP2A	18"	9½"	20½"	35	1500	14	2
KSP3A	18"	19"	17½"	41	1600	14.25	3
KSP4A	18"	19"	20½"	45	1700	15	4
KSP1AF	18"	9½"	17½"	36	1400	13.5	1
KSP2AF	18"	9½"	20½"	38	1500	14	2
KSP3AF	18"	19"	17½"	46	1600	14.25	3
KSP4AF	18"	19"	20½"	49	1700	15	4
K3A	9½"	18"	20½"	38	1600	14.25	3
K3AF	9½"	18"	20½"	40	1600	14.25	3
KPPA	9½"	17½"	21¼"	38	1300	13	0
KPPAF	9½"	17½"	21¼"	39	1300	13	0
KT-3	13"	17½"	28½"	40	1300	13	0
K5A	19"	18"	20½"	51	1800	15	5
K5AF	19"	18"	20½"	53	1800	15	5

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 the nature of the defect. If damage was incurred during transit to you, file a claim with the carrier.

TROUBLE SHOOTING GUIDE

**MODELS KP1A, KP2A, KP3A, KP4A, KSP1A, KSP2A, KSP3A, KSP4A,
KP1AF, KP2AF, KP3AF, KP4AF, KSP1AF, KSP2AF, KSP3AF, KSP4AF,
K3A, K3AF, KPPA, KPPAF AND KT-3**

SYMPTOM	POSSIBLE CAUSE	WHAT TO CHECK	REMEDY
CANNOT START BREW CYCLE	<ol style="list-style-type: none"> 1. No Water. 2. No Power 3. ON/OFF Switch. 4. Brew Start Switch. 5. Loose connections in harness. 6. Timer 7. Solenoid Valve. 	<ol style="list-style-type: none"> 1. Incoming water lines & water shut off valve. 2. Cord set & plug connections. Fuse or circuit breaker. 3. Switch continuity. (Normally closed 1 & 2) 4. Switch continuity (Normally open) 5. Check 9 pin plug. Socket connections from timer to 9 pin plug, and terminal to solenoid. 6. Socket connects from timer to 9 pin plug, and terminal to solenoid, and black 3 pin plug. 7. (A) Voltage at solenoid valve terminals. Start a brew cycle & check for 120 volts A.C. at terminals. (B) If voltage is present at terminals, check for water at line pressure on the inlet side of solenoid valve. 	<ol style="list-style-type: none"> 1. Be sure water shut off valve is open. 2. Check voltage at convenience outlet on component panel. 3. If ON/OFF switch does not make & break contact, replace ON/OFF switch. 4. If brew start switch does not make & break contact, replace brew start switch. 5. Be sure these connections are tight. 6. (A) Be sure these connections are tight. (B) If connections are tight, replace timer. 7. (A) If voltage is not present at terminals refer to step 2 through 6. (B) If voltage is present at terminals & water at line pressure is present on the inlet side of the solenoid, but not present on the outgoing side, replace solenoid.
NO HOT WATER	<ol style="list-style-type: none"> 1. Tank heater 2. Limit Thermostat or Control Thermostat 	<ol style="list-style-type: none"> 1. Check the voltage at the tank heater terminals. Voltage should be 120 volts. 2. With Control thermostat in fully counter clockwise position, check the voltage between the tank heater terminal (white wire) and the incoming terminal on the limit thermostat (blue wire) then the outgoing terminal on the limit thermostat (black wire) Voltage should be 120 volts. 	<ol style="list-style-type: none"> 1. (A) If correct voltage is present at the tank heater terminals & water in tank is not being heated, replace tank heater. (B) If voltage is not present at tank heater terminals, refer to step 2. (C) If incorrect voltage is present on tank heater terminals, check voltage at receptacle of brewer. Voltage should be 120 volts. 2. (A) If voltage is present on incoming terminal on the limit thermostat, but not on the outgoing terminal, replace limit thermostat. (B) If voltage is present on the incoming terminal (blue wire) on the control thermostat, but not on the outgoing terminal (black wire), replace control thermostat

SYMPTOM	POSSIBLE CAUSE	WHAT TO CHECK	REMEDY
STEAMING OR SPITTING AROUND FUNNEL	<ol style="list-style-type: none"> Control Thermostat High Altitude. 	<ol style="list-style-type: none"> Thermostat points stuck or out of calibration. For altitudes above 5000 ft. see initial operation instructions. 	<ol style="list-style-type: none"> Thermostat should be calibrated or replaced.
DRIPPING	<ol style="list-style-type: none"> Not siphoning properly Solenoid valve not seating properly. 	<ol style="list-style-type: none"> Water should flow from sprayhead for approximately 20 seconds after timer shuts off. Solenoid valve assembly. 	<ol style="list-style-type: none"> (A) Clean sprayhead holes. (B) Check tightness of sprayhead tube. (C) Insert delimiting spring in water tube all the way into tank and saw back & forth five or six times. Be sure spring is in place & any particles are cleaned from valve seat. If valve seat is worn or mutilated, replace solenoid valve.
FAUCET MODELS only	<ol style="list-style-type: none"> Faucet coil is leaking 	<ol style="list-style-type: none"> Hot water coil. 	<ol style="list-style-type: none"> Tighten fittings or replace coil.
WATER KEEPS RUNNING (brewer won't shut off electrically)	<ol style="list-style-type: none"> Solenoid Valve. Start Switch Timer 	<ol style="list-style-type: none"> Refer to "Dripping" section step 2. Remove wires from switch & check continuity. Solid state timer models are not repairable. If timer does not turn off, timer should be replaced. 	<ol style="list-style-type: none"> Refer to "Dripping" section step 2. If start switch does not make & break contact, switch should be replaced. Replace timer
IRREGULAR YIELD	<ol style="list-style-type: none"> Not siphoning properly. Timer Fluctuating water pressure. Solenoid Valve Flow Washer. 	<ol style="list-style-type: none"> Refer to "Dripping" section step 1. Timer consistency. Check timer consistency several times with a watch - should be 120 to 150 seconds (KT-3 Tea brewer 180 seconds) Check water pressure. Refer to "Dripping" section step 2. Possible lime build up in flow washer 	<ol style="list-style-type: none"> Refer to "Dripping" section step 1. If times are irregular, timer should be replaced. If pressure fluctuates 10-20 PSI during operation of brew cycle, add a pressure regulator to inlet side of brewer. Set regulator pressure at lowest pressure level registered. Readjust timer to give correct water level. Refer to "Dripping" section step 2. Replace flow washer and clean lime from flow control.
FAUCET MODELS only	<ol style="list-style-type: none"> Coil assembly. 	<ol style="list-style-type: none"> Check coil assembly for possible leak. 	<ol style="list-style-type: none"> Retighten fittings on coil or replace coil.
FAUCET MODELS only	<ol style="list-style-type: none"> Strainer. 	<ol style="list-style-type: none"> Water pressure at out put of strainer. 	<ol style="list-style-type: none"> If pressure is low clean or replace strainer.
TEA BREWER	<ol style="list-style-type: none"> Strainer. 	<ol style="list-style-type: none"> Strainer built into flow control. 	<ol style="list-style-type: none"> Refer to step 5.
WARMER PLATES RED HOT -- OR SOLENOID COIL SMOKING -- OR WATER IN TANK HEATS EXCESSIVELY FAST.	<ol style="list-style-type: none"> Brewer wired to wrong voltage. 	<ol style="list-style-type: none"> Voltage at brewer receptacle. 	<ol style="list-style-type: none"> Check serial tag for correct voltage and correct as necessary.

SYMPTOM	POSSIBLE CAUSE	WHAT TO CHECK	REMEDY
<p>DRY COFFEE REMAINING IN BREW BASKET AFTER BREW CYCLE IS COMPLETED.</p>	<ol style="list-style-type: none"> 1. Filters. 2. Not siphoning properly. 3. Improper loading of brew basket. 	<ol style="list-style-type: none"> 1. Check if correct filters are being used. 2. Refer to "Dripping" section step 1. 3. Filter & coffee in brew basket. 	<ol style="list-style-type: none"> 1. Insert correct filter. 2. Refer to "Dripping" section step 1. 3. Filter should be centered in basket & coffee bed should be level.
<p>WEAK COFFEE</p>	<ol style="list-style-type: none"> 1. Filters. 2. Water temperature too low. 3. Not siphoning properly. 4. Improper loading of basket. 5. Missing sprayhead. 	<ol style="list-style-type: none"> 1. Check if correct filters are being used. 2. Check water temperature. Refer to "initial operation" instructions. 3. Refer to "Dripping" section step 1. 4. Filter & coffee in basket. 5. Check for sprayhead. 	<ol style="list-style-type: none"> 1. Insert correct filter. 2. Adjust control thermostat pin wheel to high setting. 3. Refer to "Dripping" section step 1. 4. Filters should be centered in basket & coffee bed should be level. 5. Install sprayhead.
<p>SOLENOID CHATTER OR HOWLING</p>	<ol style="list-style-type: none"> 1. Brewer connected to hot water line. 2. Vibration. 3. High water pressure. 4. Water hammer. 5. 60 Cycle vibration. 	<ol style="list-style-type: none"> 1. Incoming water line. 2. If brewer is on a metal stand or counter, check to see that neither bottom pan or copper tubing to brewer is touching counter. 3. Water pressure on incoming line. 4. Incoming plumbing. 5. Check tightness of nut on top of the solenoid valve. 	<ol style="list-style-type: none"> 1. Brewer should be connected to cold water line. 2. Adjust as necessary. 3. If water pressure is over 90 PSI install pressure regulator & adjust to 50 PSI. 4. This is not the fault of the brewer. It can usually be corrected by rearranging some plumbing or adding an air chamber to the incoming water line. 5. Tighten nut on top of solenoid valve.
<p>COLD WARMER</p>	<ol style="list-style-type: none"> 1. Warmer defective. 2. Warmer ON/OFF switch. 3. Bad Harness. 	<ol style="list-style-type: none"> 1. Voltage at warmer terminals. Should be 120 volts A.C. 2. If voltage is not present on warmer terminals, check continuity of switch. 3. Check connections between harness & switch & switch & warmer. 	<ol style="list-style-type: none"> 1. If voltage is present on terminals but warmer will not heat, replace warmer. 2. If switch does not make & break when turned on & off, replace switch. 3. Be sure all connections are tight.

SYMPTOM	POSSIBLE CAUSE	WHAT TO CHECK	REMEDY
CONDENSATION INSIDE OF CABINET	<ol style="list-style-type: none"> 1. Tank lid gasket. 2. Sprayhead tube assembly. 3. Thermostat grommet. 4. Receiving pan nut. 5. Water thermostat above 210 degrees. 	<ol style="list-style-type: none"> 1. Check tank lid gasket for nicks or cuts. 2. Check tightness of sprayhead tube assembly to tank lid. 3. Check grommet for tight fit or nicks or cuts. 4. Receiving pan nut loose. 5. Check thermostat calibration. 	<ol style="list-style-type: none"> 1. Replace gasket. 2. Tighten sprayhead tube assembly to tank lid. 3. Readjust grommet to fit tank lid or replace thermostat. 4. Tighten receiving pan nut. 5. Calibrate or replace thermostat.
FAUCET WATER FLOW TOO FAST OR TOO SLOW (Faucet models only)	<ol style="list-style-type: none"> 1. No water. 2. Slow Flow. 3. Fast Flow. 	<ol style="list-style-type: none"> 1. (A) Incoming water line shut off valve. (B) Needle valve. (C) Faucet clogging. 2. Turn needle valve counter clockwise. 3. Turn needle valve clockwise. 	<ol style="list-style-type: none"> 1. (A) Water shut off valve should be open. (B) Needle valve should be open. (C) Clean or rebuild faucet. 2. Increase flow. 3. Decrease flow.
FAUCET DRIPPING (Faucet models only)	<ol style="list-style-type: none"> 1. Clogged valve seat. 	<ol style="list-style-type: none"> 1. Valve seat. 	<ol style="list-style-type: none"> 1. Disassemble & clean, or replace as necessary. Refer to faucet replacement and repair kit.

CAUTION: Disconnect brewer cord from electrical outlet before removal of any panel or replacement of any component.

COMPONENT REPLACEMENT INSTRUCTIONS

To access tank assembly; limit thermostat; control thermostat; tank heating element; switches; faucet; & hot water coil, proceed as follows:

1. Remove sprayhead & sprayhead nut (Fig. 1 No. 12) by unscrewing in counter clockwise direction.
2. Remove brewer lid. For models with upper warmer, disconnect electrical plug (Fig. 4A) from upper warmer.
3. Unscrew inlet/discharge tube (Fig. 2 O) from upper right hand side of automatic control panel then remove inlet/discharge tube from receiving pan.
4. Remove pour-in basin assy (Fig. 2 N).

TANK ASSEMBLY, AUTOMATIC (704124)

1. Disconnect polarized plug (Fig. 3 B) connected to tank.
2. Lift tank completely out of brewer. Replace with new tank assembly by following reverse procedures.

TANK ASSEMBLY, FAUCET (704125)

1. Disconnect polarized plug (Fig. 4 B) connected to tank.
2. Disconnect flex tubing from hot water coil elbows (Fig. 4, E & F).
3. Lift tank completely out of brewer. Replace new tank assembly by following reverse procedures.

THERMOSTAT, HI LIMIT (1000174) (Fig. 4 I)

1. Remove wires from limit thermostat.
2. Lift retaining spring slightly to remove old limit thermostat.
3. Check continuity of the new limit thermostat before installing.
4. Slide new limit thermostat into place under the retaining spring. Reconnect wire leads to new limit thermostat.
5. Make sure the limit thermostat is securely mounted & that all electrical connects are tight & isolated.

THERMOSTAT, MAIN (704227) (Fig. 3 Y)

1. Remove the two screws (Fig. 3 Z) from the back of bracket.
2. Remove grommet (Fig. 1 No. 13) from top of tank lid by pressing up with thumbs. Pull capillary bulb (Fig. 1 No. 14) out through hole.
3. Unplug thermostat black & blue wires from tank lid harness.
4. Replace thermostat by following reverse procedures.
5. To calibrate thermostat, rotate pin wheel adjustment (Fig. 3 P) counter clockwise to increase temperature.

ELEMENT, TANK HEATING (202067) (Fig. 1 No. 15)

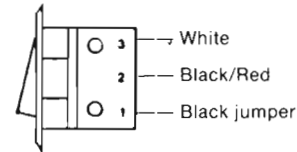
1. Follow instructions for tank assembly removal.
2. Remove the 8 tank lid retaining nuts (Fig. 4 G).
3. Disconnect black & white wires from the tank heating element (Fig. 4 H).
4. Remove the 2 nuts holding the tank heating element. Remove element.
5. Install the new tank heating element. Replace tank heating element washers & tighten nuts securely to insure proper sealing.
6. Inspect tank lid gasket & replace when necessary.
7. Reassemble by reversing steps 3 through 1.

ELEMENT, WARMING (100187) (Fig. 2 No. 16)

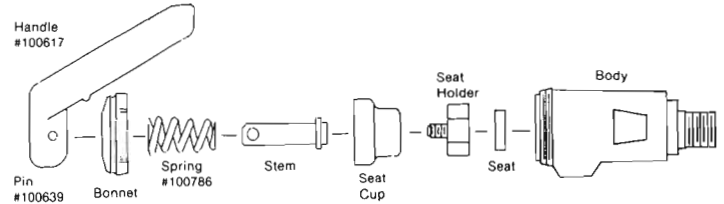
1. Remove screws holding warmer plate (Fig. 2 V)
2. Lift plate up & disconnect wire leads.
3. Remove 2 nuts holding the retaining plate & warmer element to plate.
4. Replace warmer element following reverse procedures.

SWITCH, BREW (201985) (Fig. 4 K) and SWITCH, LIGHTED ROCKER (100085) (Fig. 4 L)

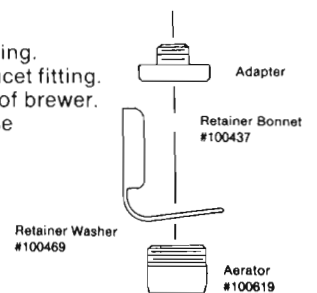
1. Disconnect wires from switch, noting location of each wire.
2. Remove switch by compressing spring clip on top & bottom of switch, press forward.
3. Replace switch following reverse procedures.



FAUCET ASSEMBLY (100145) Fig. 4 M)

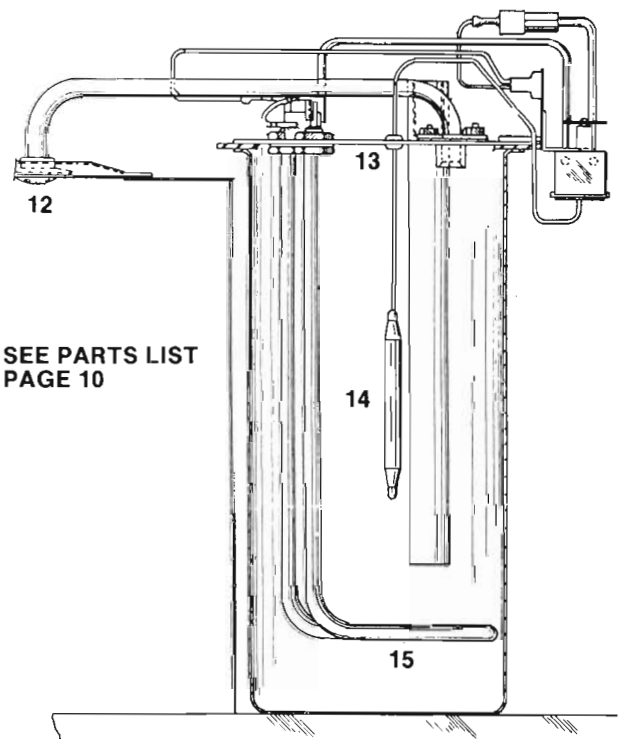


1. Disconnect flex tube from faucet fitting.
2. Remove brass nut & washer from faucet fitting.
3. Pull out faucet assembly from front of brewer. Replace new faucet following reverse procedures.



COIL, HOT WATER (771031)

1. Follow instructions for tank assembly removal.
2. Remove the 8 tank lid retaining nuts (Fig. 4 G).
3. Lift the tank lid assembly from tank.
4. Remove the 2 compression nuts from top of hot water coil. (Inspect tank lid gasket & replace if necessary)
5. Replace with new hot water coil by following reverse procedures.



SEE PARTS LIST
PAGE 10

FIGURE 1

CAUTION: Disconnect brewer cord from electrical outlet before removal of any panel or replacement of any component.

CONTROL PANELS

To gain access to the automatic control panel or tea brew control panel remove brewer lid. On models with an upper warmer disconnect electrical plug from upper warmer. Remove back panel. Disconnect 9 pin plug. Remove control panel by loosening the 2 knurled nuts.

COMPONENT REPLACEMENTS FOR AUTOMATIC CONTROL PANEL (781061)

TIMER ASSEMBLY (700062) (Fig. 3 No. 4)

1. Disconnect electrical plug (Fig. 3 No. 6) from timer.
2. Remove white & gray wire tabs from solenoid valve terminal tabs (Fig. 3 No. 7).
3. Remove screws from timer assembly bracket.
4. Replace new timer assembly by reversing procedure.

FLOW CONTROL ASSEMBLY (101190) (Fig. 3 No. 3)

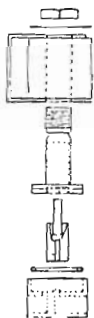
1. For easy access remove timer assembly (see instructions).
2. Remove 1/4" swivel nut (Fig. 3 No. 10) from flow control. From opposite end of L-shaped copper tubing disconnect 1/4" flare nut. (Fig. 3 No. 9)
3. Remove 1/4" swivel nut (Fig. 3 No. 11) from solenoid. Disconnect flow control from solenoid.
4. Replace with new flow control and follow reverse procedure (insuring all arrows on flow control & solenoid point the the right side of automatic control panel.)

SOLENOID (100250) (Fig. 3 No. 2)

1. Follow steps 1 through 3 of flow control replacement.
2. Unscrew 1/4" swivel nut from solenoid. Replace solenoid following reverse procedure (insuring all arrows on flow control & solenoid point to the right side of automatic control panel.)

STRAINER (202003) (Fig. 3 No. 5)

1. For easy access remover timer assembly (see instructions)
2. Remove 1/4" flare nut from each side of strainer.
3. Remove strainer & replace new strainer following reverse procedure.



SOLENOID (100250)

COMPONENT REPLACEMENTS FOR TEA BREWER CONTROL PANEL (781062)

TIMER ASSEMBLY (700062) (Fig. 5 No. 4)

1. Disconnect white & gray wires from solenoid terminal tabs. (Fig. 5 No. 7)
2. Disconnect electrical plug (Fig. 5 No. 6) to timer.
3. Remove screws from timer assembly bracket.
4. Replace with new timer assembly following reverse procedure.

FLOW CONTROL ASSEMBLY (101100) (Fig. 5 No. 19)

1. Remove 1/4" swivel nut (Fig. 5 No. 10) from each end of flow control.
2. Replace with new flow control insuring arrow on sticker points toward left hand side of control panel.

SOLENOID (100250) (Fig. 5 No. 2)

1. Disconnect gray & white wires from solenoid terminal tabs. (Fig. 5 No. 7)
2. Disconnect 1/4" swivel nut from elbow.
3. Disconnect 1/4" swivel nut from needle valve assembly.
4. Disconnect 1/4" swivel nut from street tee.
5. Disconnect street tee from solenoid.
6. Disconnect elbow from solenoid.
7. Replace with new solenoid by following reverse procedure insuring arrow points to the right hand side of control panel.

CONVERSIONS

FRONT-TO-BACK to SIDE-TO-SIDE (or visa versa) SWITCH PLATES

1. Remove brewer lid. For models with upper warmer, disconnect electrical plug (Fig. 4 A) from upper warmer plate.
2. Remove pour in basin assy (Fig. 2 N).
3. Remove desired blank panel by unscrewing 4 nuts.
4. Remove knurled nuts (Fig. 2 W) on switch plate.
5. Slide switch plate panel through opening to inside of brewer by turning panel. Continue sliding switch panel through to desired opening.
6. Reassemble by reversing steps 4 through 1.

BREW RAILS

1. Loosen brew rail screws. DO NOT REMOVE. Slide off brew rails.
2. Reposition brew rails. The narrower part of brew rail denotes entrance of brew basket.
3. Slide brew rails under screws & tighten screws.

ROTATION OF WARMERS

UPPER STEP-UP WARMER (Two and four burner models)

1. Remove brewer lid. Disconnect electrical plug from upper warmer plate.
2. Turn brewer lid upside down. Remove screws.
3. While holding warmer to brewer lid turn lid right side up.
4. Reposition warmer by increments of 90 degree turns.
5. While holding warmer to brewer lid turn upside down.
6. Align 4 holes of brewer lid to the holes on warmer base.
7. Reassemble by reversing steps 2 and 1.

3-WARMER BASE WITH STEP UP WARMER (Three and four burner models)

1. Remove screws from porcelain plate.
2. Gently lift porcelain plate & place to side.
3. Remove the 2 screws from bracket.
4. Rotate step-up warmer to desired position & align bracket with 2 holes in the base.
5. Reverse steps 3 through 1.

BASE CHANGES

1. Follow instructions for tank assembly removal.
2. Remove back panel. Unplug main wiring harness (Fig. 2 O)
3. Remove control panel by loosening the 2 knurled nuts. Lift control panel approx. 1", pull the base out while pushing back & down on the top.
4. For all models (except Airpot & Tea) unplug red, white & black wire lead for base warmer.
5. Remove the 2 knurled screws & the 4 screws (Fig. 2 U) located on base of housing.
6. Remove housing from base. On all models (except Airpot and Tea) pull warmer wires out through plate on base of housing.
7. Replace housing on new base. On all but airpot & tea bases pull red, white & black warmer wires through hole in base plate. Align holes of new base with holes on brewer housing. Align warmer wire hole on base with large hole in base plate (On all bases except airpot & tea).
8. Reassemble by reversing steps 6 through 1.

LID CHANGES

POUR-IN ONLY to POUR-IN WITH STEP-UP WARMER or 2 BURNER STEP-UP WARMER

1. Remove brewer lid. Replace with step-up warmer lid. Connect electrical plug for warmer.
2. Replace 6 brewer lid screws & tighten.

POUR-IN WITH STEP-UP WARMER to POUR-IN ONLY

1. Remove brewer lid. Disconnect electrical plug for upper warmer.
2. Replace with pour-in only lid. Replace 6 brewer lid screws & tighten.

CAUTION: Disconnect brewer cord from electrical outlet before removal of any panel or replacement of any component.

CONVERSIONS (Continued)

TO ACCESS INSIDE OF BREWER

1. Remove sprayhead & sprayhead nut (Fig. 1 No. 12) by unscrewing in counter clockwise direction.
2. Remove brewer lid. For models with upper warmer disconnect electrical plug (Fig. 4 A) from upper warmer.
3. Unscrew inlet/discharge tube (Fig. 2 O) from upper right hand side of automatic control panel. Then remove inlet/discharge tube from receiving pan.
4. Remove pour in basin assy (Fig. 2 N).
5. Remove back panel.

AUTOMATIC TO POUR-OVER

1. Loosen 2 knurled nuts on automatic control panel (Fig. 2 R). Remove automatic control panel & replace with pour-over control panel.
2. Disconnect black & blue wires on start switch (Fig. 4 K). Refasten black & blue wires with a line splice connector.
3. Replace start switch with a blank dummy switch cover. Connect wires for start switch (now unused) together with line splice connector.
4. Plug receiving pan hole with screw & washer.
5. Reassemble by reversing "access" steps.

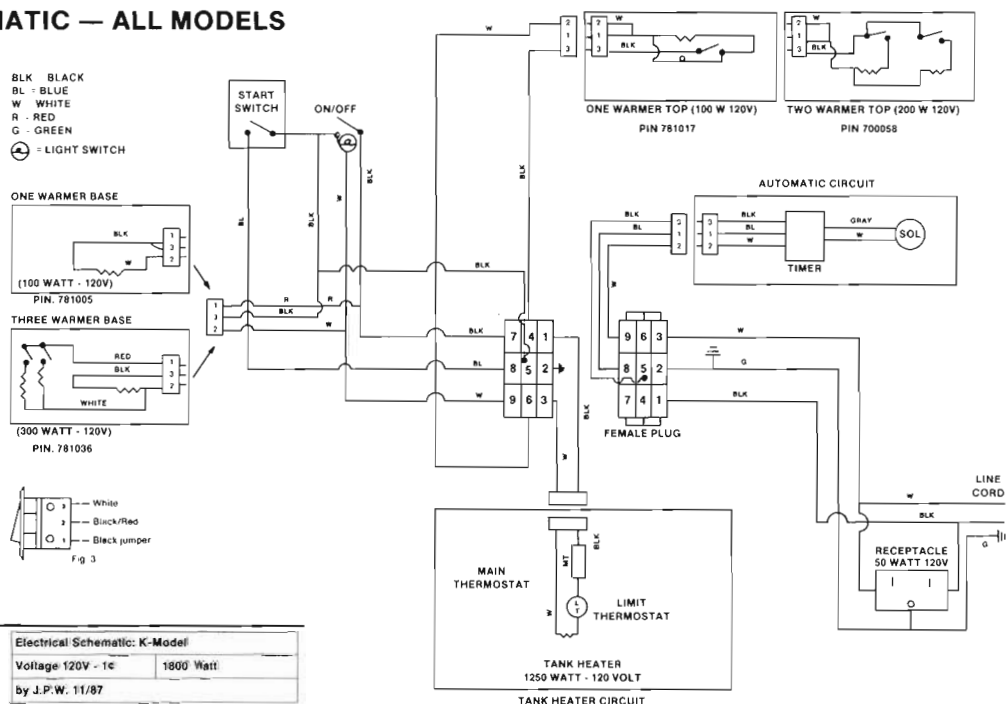
AUTOMATIC TO FAUCET

1. Remove plug (Fig. 2 X) in switch panel to provide opening for faucet.
2. Remove brass nut & star washer from faucet assembly. Insert faucet through opening in switch panel. Position faucet then fasten with brass nut & star washer.
3. Remove tank assembly by unscrewing sprayhead & sprayhead nut (Fig. 1 No. 12). Unplug polarized plug (Fig. 4 B) & lift tank assembly out of brewer. Place faucet tank assembly in brewer. Reconnect polarized plug, sprayhead nut & sprayhead.
4. Connect the 12" flex tubing to faucet & to the hot water outlet (Fig. 4 F) on tank lid.
5. Connect the 10" flex tubing to cold water inlet on tank lid (Fig. 4 E) & to the top left hand fitting (Fig. 2 No. 8 B) on automatic control panel.
6. Replace pour in basin assy. Remove screw plugging hole in pour in basin.
7. Insert inlet/discharge tube into pour in basin. Slide gasket up to seal hole in basin. Tighten flare nut to top right hand fitting on automatic control panel.
8. Adjust water flow to water faucet by adjusting needle valve (Fig. 2 No. 1). (Turn counter-clockwise to open.)
9. Replace back panel. Reconnect electrical plug to warmer (on models with upper warmer). Replace brewer lid.
10. Refer to Plumber's Installation Instructions.

AUTOMATIC to TEA BREWER

1. Follow instructions for base changes. Do not replace brewer lid, tank assembly, back panel and pour in basin.
2. Replace left hand track guide with tea brewer track guide.
3. Remove plug from sprayhead plate. Inset 1/4" flared male connector, with longer side on inside of brewer. Fasten with star washer & nut.
4. Place tank assembly into brewer. Fasten sprayhead nut. Replace 5 hole sprayhead with 6 hole sprayhead.
5. Insert tea brewer control panel and fasten knurled nuts.
6. Reconnect polarized plug.
7. Connect int. dilution tube by connecting to fitting on top right hand side of tea brewer control panel & to 1/4" flared male connector on sprayhead plate.
8. Replace pour in basin assy. Insert tea brewer inlet/discharge tube through hole in basin (sliding gasket up to seal hole). Insert tea brewer inlet/discharge tube into basin. Connect opposite end of tea brewer inlet/discharge tube to fitting on top left hand side of tea brewer control panel.
9. Attach ext. dilution tube to 1/4" flared male connector located on outside of brewer on sprayhead plate.
10. Refer to plumber's installation instructions.
11. Refer to Tea Brewer initial operation instructions for dilution setting.
12. Replace back panel.
13. Replace step-up cover with "pour-in screen only" cover. (on models with upper step-up warmer).

WIRING SCHEMATIC — ALL MODELS



FIGURES 1, 2, 3, 4 & 5 PARTS LIST

- | | |
|--|--|
| <ul style="list-style-type: none"> A. Electrical plug, upper warmer B. Wire Harness Tank Lid (700008) C. Flex Tube 10 1/4" (700050) D. Flex Tube 12 1/2" (700048) E. Cold water inlet elbow for hot water coil (201247) F. Hot water outlet elbow for hot water coil (201247) G. Nuts, tank lid, 8/32 hex s/s (100061) H. Terminals, tank element I. Thermostat, Hi Limit (100174) J. Retaining Spring K. Switch, brew (201985) L. Switch, Lighted Rocker (100085) M. Faucet Assembly (100145) N. Pour In Basin Asy (704110) O. Inlet/Discharge tube (771001) P. Thermostat pin wheel Q. 9 pin main harness plug (701201) R. Component Panel Assy, Auto/Faucet (781061) S. Tank assembly, with sprayhead, Automatic (700295), Faucet (704287) T. Plate, switch U. Screw, 8/32 x 3/8, base (511027) V. Screw, 4/40 x 3/38, warming plate (100055) W. Nut, knurled, 8/32, brass, panel (700021) X. Plug, faucet hole cap (511026) Y. Thermostat, Main (704227) Z. Screw, 8/32 x 1/4, thermostat bracket (100242) | <ul style="list-style-type: none"> 1. Needle valve, 1/4 flare x 1/8 NPT (767115) 2. Solenoid Valve, Skinner (100250) 3. Flow control assembly (101190) 4. Timer assembly (700062) 5. Strainer, water 1/4" flare (202003) 6. Electric plug, timer 7. Terminal tabs, solenoid 8. Male connector, control panel (100176) <ul style="list-style-type: none"> a. right hand side b. left hand side 9. 1/4" male flare nut 10. 1/4" swivel flare nute for flow control 11. 1/4" swivel flare nut for strainer 12. Sprayhead, 5 hole s/s/ (100024) 13. Grommet 14. Capillary bulb 15. Element, tank ehating, 1250W, 120V (202067) 16. Plate, porcelain, brown (100020) 17. Element, warming, 100W, 120V (100187) <p>Tea Brewer Component Panel Assembly Replacement Parts</p> <ul style="list-style-type: none"> 18. Needle valve, angle 1/4" flare (767110) 19. Flow control assembly, 1.0 GPM (101100) 20. Internal dilution tube, tea (800008) 21. External dilution tube, tea (701157) 22. Inlet/discharge tube, tea (701158) 23. Tee, street 1/8 x 1/8 x 1/8 NPT (767105) |
|--|--|

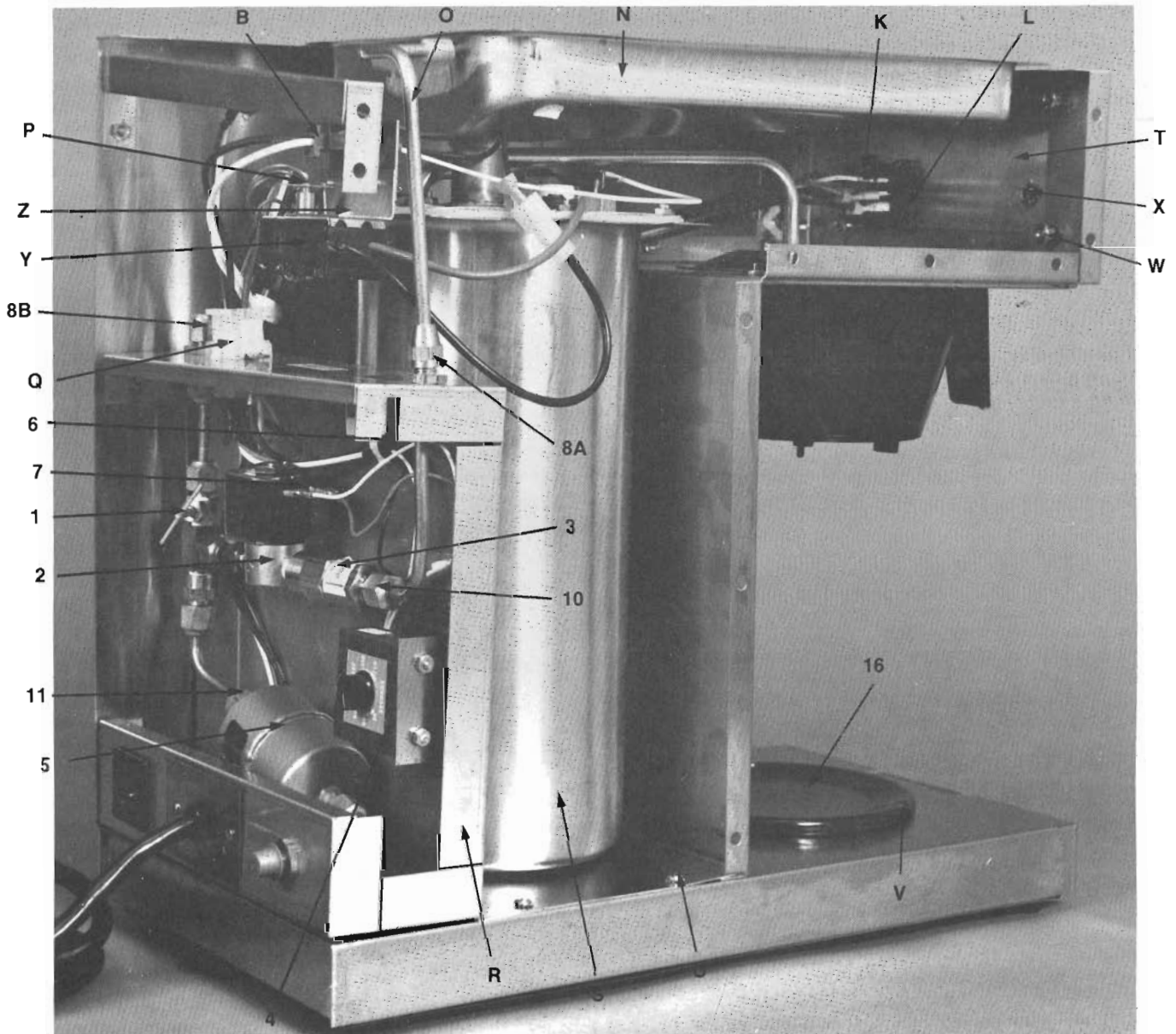


FIGURE 2

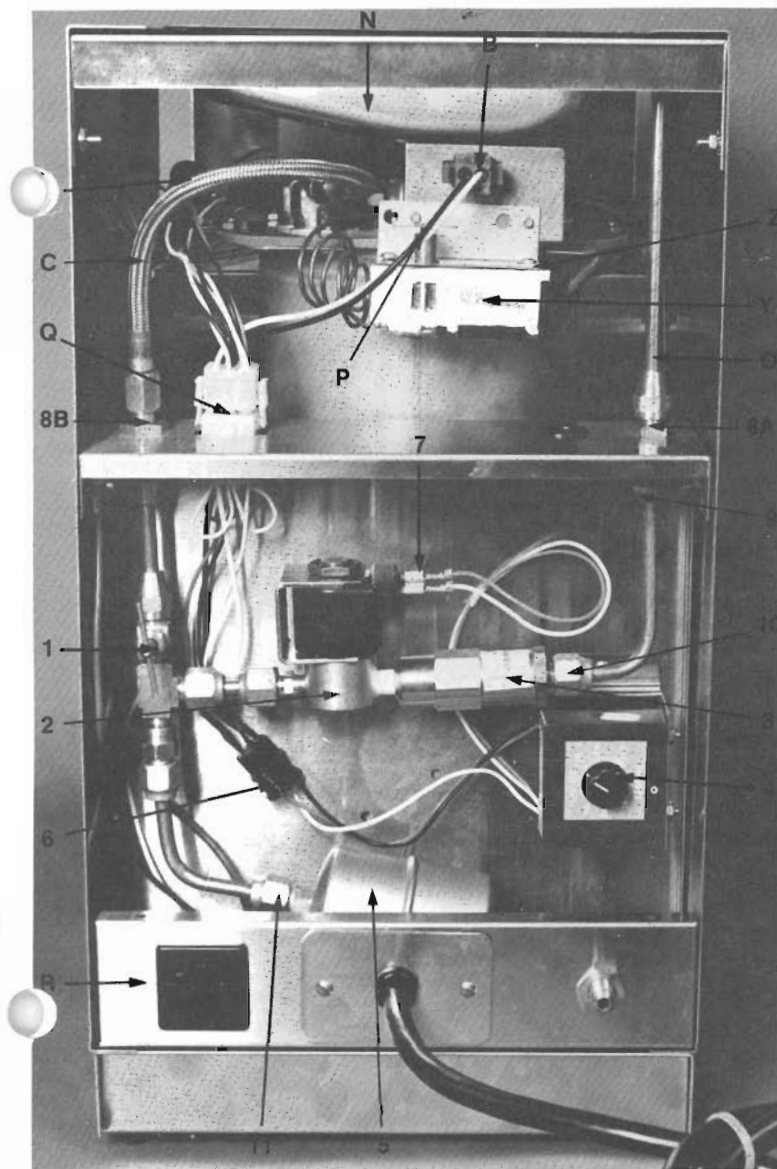


FIGURE 3

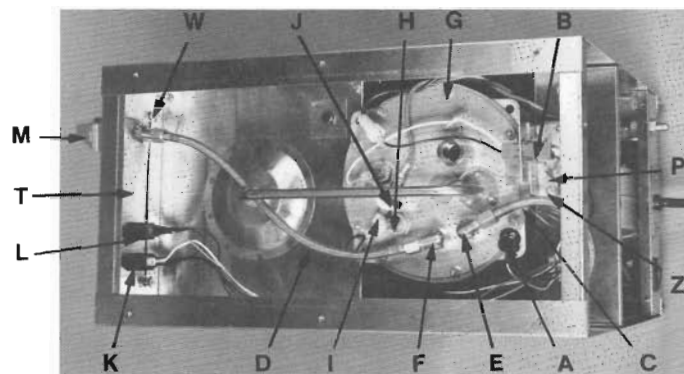


FIGURE 4

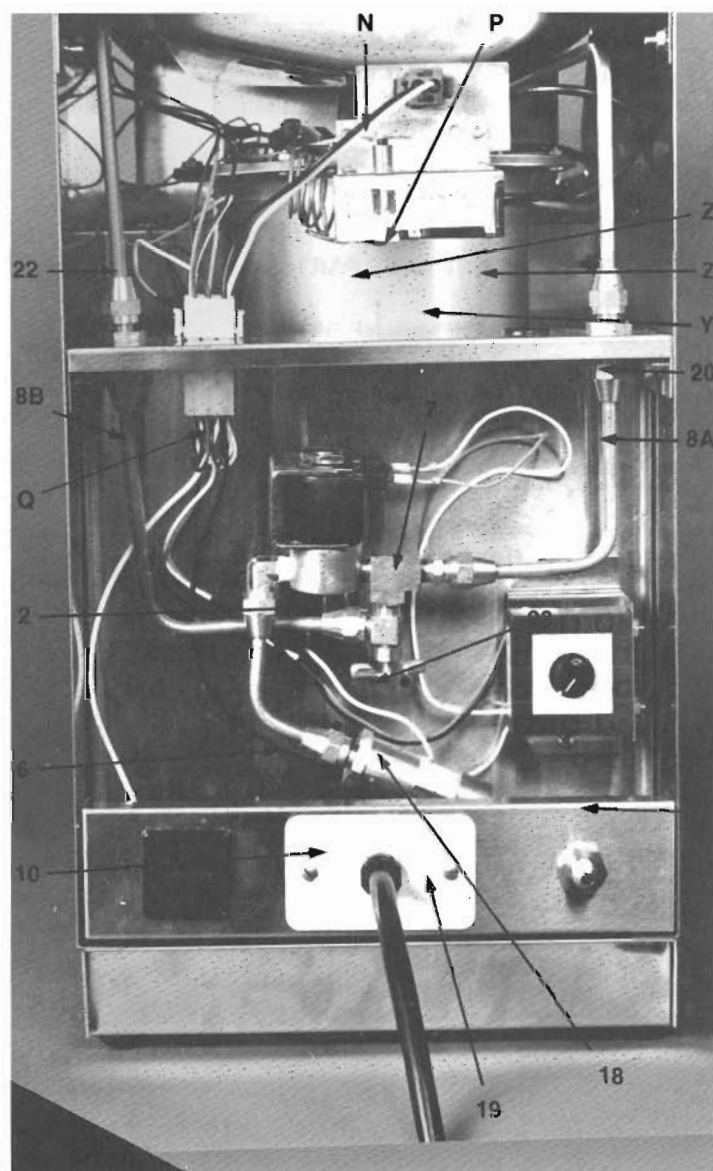


FIGURE 5

K BREWER PARTS LIST

CONTAINERS:

700900 AIRPOT, 72 OZ.
800005 TEA URN, 3 GALLON
800010 HANDLE, TEA URN
800015 TEA URN W/HANDLE 3 GALLON

BASES:

781005 BASE WARMER 1 STATION
781010 BASE AIRPOT
781036 BASE WARMER 3 STATION
781115 BASE TEA

COVERS:

100015 POUR IN DISH W/SCREEN
700051 COVER POUR IN ONLY
700058 COVER W/2 WARMERS NO POUR IN
781017 COVER POUR IN & STEP UP/WARMER

PANELS:

781060 COMPONENT PANEL ASSY, POUR OVER
781061 COMPONENT PANEL ASSY, AUTO/FAUCET
781062 COMPONENT PANEL ASSY, TEA

COMPONENT PANEL ASSY PARTS

FOR POUR OVER & AUTO/FAUCET:

100250 SOLENOID VALVE SKINNER
700062 TIMER ASSY
101190 FLOW CONTROL ASSY W/.190 GPM
202003 STRAINER, WATER 1/4" FLARE

COMPONENT PANEL ASSY PARTS

FOR TEA:

100250 SOLENOID VALVE SKINNER
700062 TIMER ASSY
101100 FLOW CONTROL ASSY W/1.0 GPM

TANKS

704119 TANK ONLY
704120 TANK ASSY, POUR OVER/AUTO, WITH SPRAYHEAD
704124 TANK ASSY, POUR OVER/AUTO, W/O SPRAYHEAD
704287 TANK ASSY, FAUCET, WITH SPRAYHEAD
704125 TANK ASSY, FAUCET, W/O SPRAYHEAD
100633 THERMOSTAT, HI LIMIT
700008 WIRE HARNESS, TANK LID
704221 GASKET, TANK
704227 THERMOSTAT, MAIN
704236 ELEMENT, TANK HEATING, 1250W
705538 TANK LID W/THERMOSTAT BRACKET
771031 COIL, HOT WATER

MISCELLANEOUS PARTS:

100008 PLATE, PORCELAIN, BLACK
100010 PLATE ASSY, PORCELAIN, BLACK
100020 PLATE, PORCELAIN, BROWN
100032 PLATE ASSY, PORCELAIN, BROWN
100187 ELEMENT, WARMING, 100 W, 120V
781030 BREW RAIL R.H.
781031 BREW RAIL L. H.
800016 BREW RAIL L. H. TEA
771001 INLET/DISCHARGE TUBE - REGULAR
701157 DILUTION TUBE TEA BREWER - EXT.
800008 DILUTION TUBE TEA BREWER - INT.
701158 INLET/DISCHARGE TUBE - TEA
100079 FAUCET ASSEMBLY
700048 FLEX HOSE 12 12"
700050 FLEX HOSE 10 1/4"
705561 FAUCET W/FLEX HOSES
100385 BREW BASKET, UNIVERSAL
704110 POUR IN BASIN ASSY
201173 NUT, SPRAYHEAD, 7/16-20
700004 SPRAYHEAD TUBE ASSY
100024 SPRAYHEAD 5 HOLE
100025 GASKET, SPRAYHEAD
100085 SWITCH, LIGHTED ROCKER
201985 SWITCH, BREW
100425 SCREW, KNURLED
700021 NUT, KNURLED, BRASS, 8/32
201991 SOLENOID, REPAIR KIT SKINNER
202010 DIAPHRAGM FLOW CONTROL .190 GPM
800001 DIAPHRAGM FLOW CONTROL 1.0 GPM
700039 POWER CORD
700042 WIRE HARNESS, UPPER
700043 WIRE HARNESS, LOWER



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