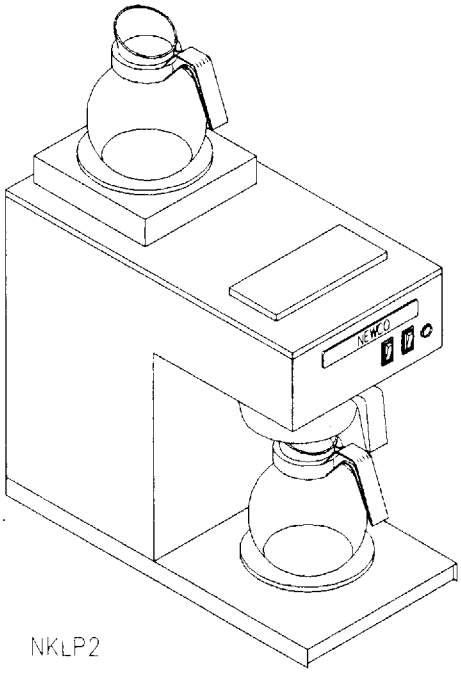
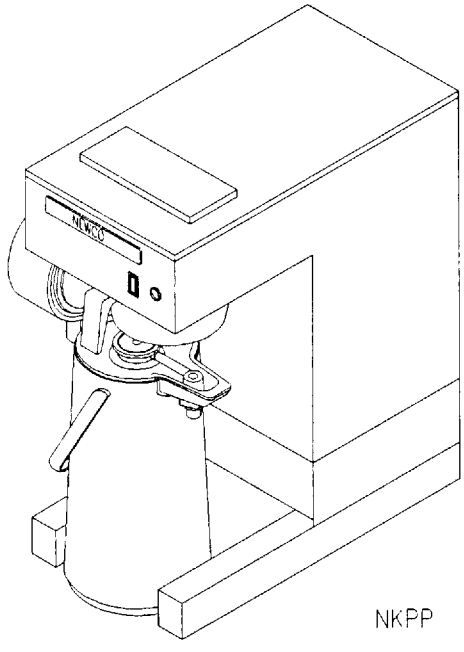
Man P.N. 705422
Rev. 11-94

NEWCO ENTERPRISES

INSTALLATION, OPERATION, AND SERVICE MANUAL FOR NK SERIES POUR OVER BREWERS

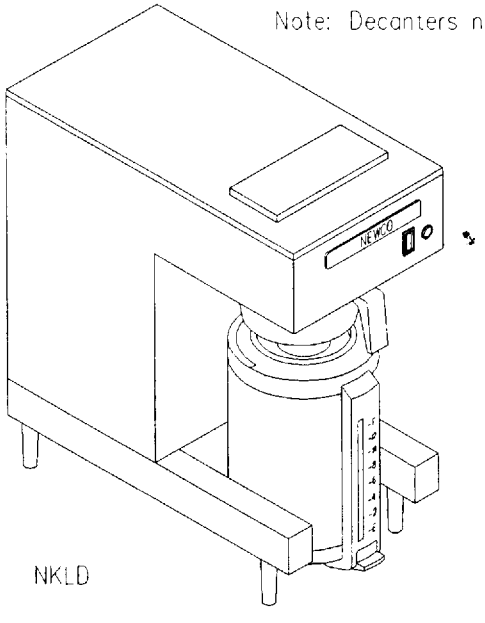


NKLP2

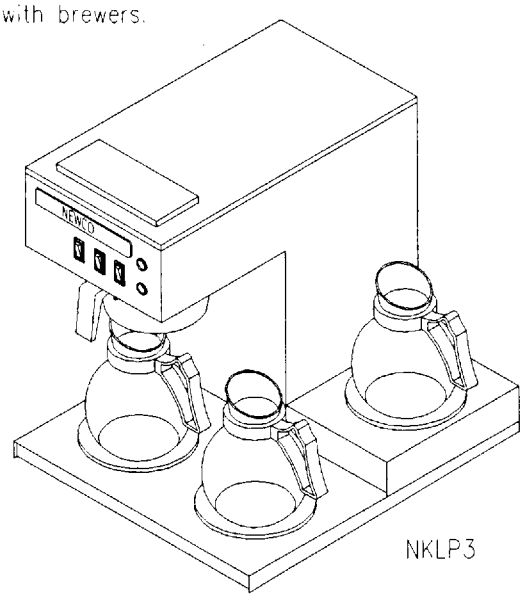


NKPP

Note: Decanters not included with brewers.



NKLD



NKLP3

Model	Warmers	Width	Length	Height	Weight	Watts	Amps
NKLP1	1	9-1/2"	18"	17"	30	1500	12.5
NKLP2	2	9-1/2"	18"	18-1/2"	31	1600	13.3
NKLP3	3	16-1/2"	18"	17"	40	1700	14.2
NKL3	3	9-1/2"	18"	18-1/2"	32	1700	14.2
NKLP4	4	16-1/2"	18"	18-1/2"	42	1800	15
NKLP5	5	16-1/2"	18"	18-1/2"	44	1750	14.6
NKPP	0	9-1/2"	18"	22"	32	1400	11.7
NKPD	0	9-1/2"	18"	26"	40	1400	11.7
NKLD	0	9-1/2"	18"	18-1/4"	30	1400	11.7

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 listed on the name plate.

FILL BREWER TANK WITH WATER BEFORE CONNECTING TO POWER SUPPLY !

1) Place the decanter under brew basket, raise top evaporation cover and pour three decanters of water through the top pour-in screen. Water should come through the brew basket as the third decanter of water drains out of the pour in basin.

2) Brewer is shipped with thermostat turned on, (full clockwise position). Plug or wire in machine to 120 volt circuit.

3) Allow 10 to 15 minutes for water in tank to heat to brewing temperature. (Additional water may drip from brew basket on initial expansion of water in the tank). This will not occur thereafter.

4) After water has reached brewing temperature (thermostat will click off, heating noise will stop and green ready light will be on) pour 1 decanter (60 oz.) of water through pour-in screen. More than 1 decanter of water will flow into decanter below brew basket due to water expansion in the tank. Machine is now ready to use.

5) Pour 1 decanter of water through pour-in screen 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.

6) In higher altitude locations (5000 feet above sea level) the thermostat may have to be adjusted lower to prevent boiling.

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 the appropriate empty decanter into position below the brew basket. For airpots first open lid and remove pump stem. For other dispensers remove the lid unless it is of the brew thru design. Turn the lower warmer switch to the ON position.

5) Pour decanter of water through pour-in screen into pour in basin.

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) For models with warming plates turn off warmers when not in use. Red light in switch indicates when 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.

LIMING

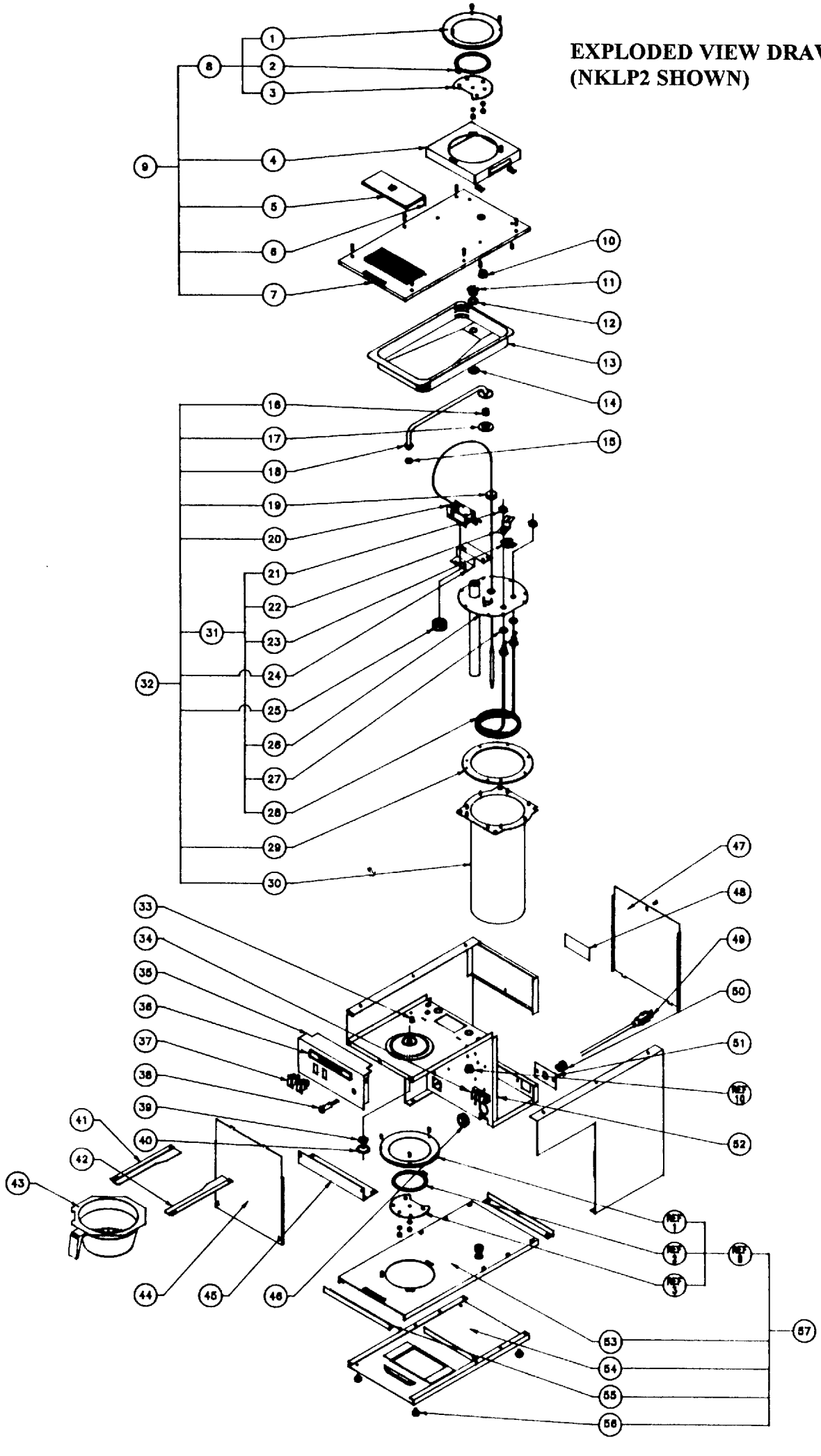
To prevent liming problems in tank fittings remove sprayhead and insert deliming spring all the way into the tank. When inserted into tank properly, no more than ten inches of the spring should be visible at the sprayhead fitting. Saw back and forth five or six times. This will keep fittings open and clear of lime. In hard water areas this should be done everyday. This process takes approximately one minute. In all areas the sprayhead should be cleaned at least once a week. Where bad liming has already occurred, a new complete tank assembly may be installed. The tank may be changed in approximately 5 minutes time.

NK SERIES POUR OVER BREWERS - PARTS LIST

Index	Part No	Description
1	100008	Plate, black porcelain
1	100020	Plate, brown porcelain
2	100642	Warming element, 220 V 100 W
2	100187	Warming element, 120 V 100 W
3	100086	Support plate, warming element
4	705371	NK stove top, 1 station cover
4	705370	NK stove top, 2 station cover
5	700198	Dust cover, front pour in
6	700186	Wire for dust cover
7	705413	NK 1 station cover, welded
7	705419	NK 2 station cover, welded
8	100010	Warming plate assembly, black, 100W 120V
8	100032	Warming plate assembly, brown, 100W 120V
8	101072	Warming plate assembly, black, 100W 220V
8	101073	Warming plate assembly, brown, 100W 220V
9	705414*	NK 1 station cover ass'y w/ pour in
9	705420*	NK 2 station cover ass'y w/ pour in
9	705229	NK plain cover ass'y w/ pour in
10	100003	Snap bushing, 3/4, plastic
11	701200	Slotted hex nut, 3/4-16, brass
12	700015	Washer, 1" OD x 3/4, S/S
13	700060	Basin, pour in
14	700016	Gasket, 1.062 OD X .578, silicone
15	100025	Gasket, sprayhead
16	704223	Bushing, siphon cup
17	704222	Gasket, delivery tube, 3 hole
18	700069	Sprayhead tube assembly
19	100175	Grommet, thermostat, silicone
20	102299	Main thermostat, knob type
21	100190	Jam nut, 1/2-20, brass
22	100143	Bracket, hi-limit thermostat
23	100174	Hi-limit thermostat
24	705198	Bracket, main thermostat
25	100043	Thermostat knob
26	705214	NK pour over tank lid, welded
27	100409	Gasket, tank fitting, brass
28	701170-10	Main Element, 1400W 120V
28	704155-10	Main Element, 1700W 120V
28	704144-10	Main Element, 2500W 240V
28	202027-10	Main Element, 3500W 240V
29	704221	Gasket, tank, silicone
30	704119	Tank only
31	705199	NK pour over tank lid ass'y 1400W 120V
31	705399	NK pour over tank lid ass'y 1700W 120V
31	705678	NK pour over tank lid ass'y 2500W 240V
31	705406	NK pour over tank lid ass'y 3500W 240V
32	705216	NK pour over tank ass'y, 1400W 120V
32	705403	NK pour over tank ass'y, 1700W 120V
32	705677	NK pour over tank ass'y, 2500W 240V
32	705409	NK pour over tank ass'y, 3500W 240V
33	100281	Plug, 3/8", plastic
34	100163	Terminal block, 120 V
34	511053	Terminal block, 240 V
35	705360*	Switch plate, NKLP1, NKPP, NKPD, NKLD
35	705203*	Switch plate, NKLP2
35	705205*	Switch plate, NKLP3, NKLP4, NKLP5
36	100058	Nameplate, NEWCO
37	100085	Rocker switch, ON/OFF, lighted
38	705383	Ready light assembly, green
39	201173	Nut, sprayhead
40	100024	Sprayhead, 5 hole
41	781031	Rail, LH
42	781030	Rail, RH
43	700117	Brew basket assembly, brown
43	700118	Brew basket assembly, black
44	705210	NK front access panel
45	705224	Brace, access panel
46	705228	Snap bushing, 1-1/8", plastic
47	705208	Rear panel
48	100253	Label, caution, red
49	100022	Power cord, 14/3, 120V 15A
49	102126	Power cord, 12/3, 120V 20A
49	100072	Power cord, 10/4, 240V 30A
50	101035	Strain relief, 120V 15A
50	100547	Strain relief, 120V 20A
50	511054	Strain relief, 240V
51	511005	Cord plate, 120V 15A
51	102126	Cord plate, 120V 20A
51	511007	Cord plate, 240V
52	705197	Cabinet shell ass'y, S/S
53	700758	Base top, 1-station
53	704115	Base top, 3 station
54	700760	Base bottom, 1 station, welded
54	704121	Base bottom, 3 station, welded
55	700759*	Base trim plate, S/S
56	100078	Bumper foot w/ screw
57	781245	Base ass'y, NKPD
57	781010	Base ass'y, NKPP
57	705209*	Base ass'y, 3 station, NKLP-3, -4
57	705345*	Base ass'y, NKLP5
57	705382*	Base ass'y, 1 station, NKLP-1, -2, NKL-3
	152111	Leg, RH NKLD
	152112	Leg, LH NKLD

*When ordering these parts please specify if replacement parts are for a black or woodgrain finish brewer.

EXPLODED VIEW DRAWING
(NKLP2 SHOWN)



COMPONENT REPLACEMENT INSTRUCTIONS

CAUTION:DISCONNECT BREWER CORD FROM ELECTRICAL OUTLET BEFORE REMOVAL OF ANY PANEL OR REPLACEMENT OF ANY COMPONENT!

NOTE: IN CANADA REPAIRS ARE TO BE DONE BY CERTIFIED ELECTRICIAN OR BREWER MUST BE REINSPECTED TO MAINTAIN APPLICABLE CERTIFICATION

These steps apply to replacement of tank, tank heater, and hi-limit or main thermostat.

1. Remove sprayhead and sprayhead nut by unscrewing in counter clockwise direction.
2. Remove brewer lid. Disconnect electrical connectors from upper warmer plate if applicable.
3. Remove pour in basin assembly (receiving pan).
4. Disconnect electrical terminals connected to tank element. Disconnect black lead from main thermostat.
5. Lift tank completely out of brewer.

TANK ASSEMBLY, POUR OVER

6. To install new tank ass'y, reverse steps 5 through 1 above.

THERMOSTAT, HI-LIMIT

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

THERMOSTAT, MAIN

1. Remove two screws which secure thermostat to bracket.
2. Remove grommet from top of tank lid by pressing up with thumb. Pull capillary bulb out through hole.
3. Disconnect thermostat wires.
4. Installation is reverse of removal.

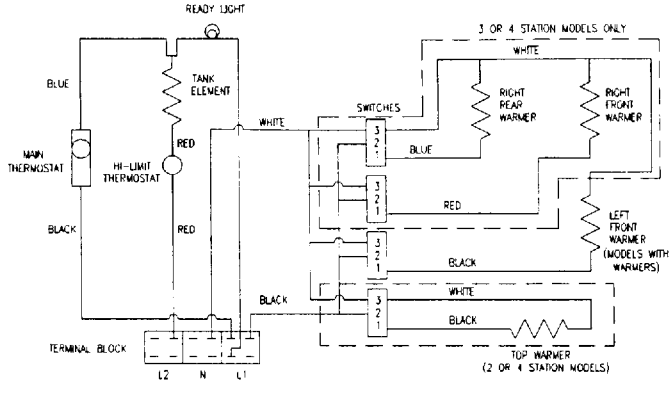
ELEMENT, TANK HEATING

1. Remove the 8 tank lid retaining nuts. Lift tank lid assembly out of tank.
2. Disconnect wire leads from the tank element.
3. Remove the 2 brass nuts, on top side of tank lid, from tank element. Remove element.
4. Install the new tank heating element, washers, and nuts. Tighten securely to insure proper sealing.
5. Inspect tank lid gasket and replace if necessary.
6. Assemble by reversing steps 2 through 1.

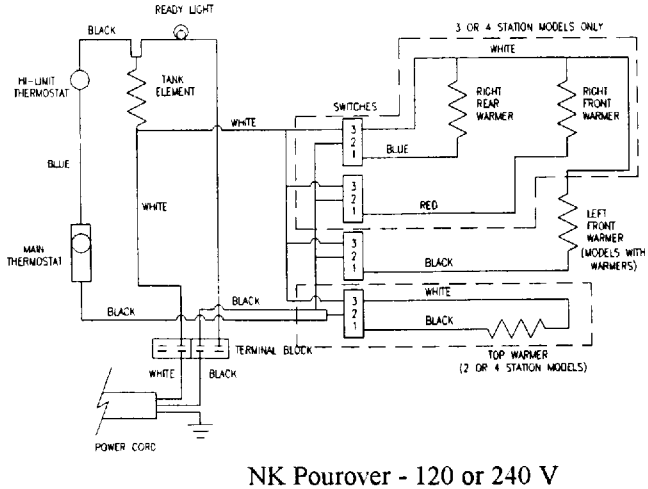
WARMER ELEMENT

1. Remove retaining screws from warmer plate.
2. Lift plate and disconnect leads.
3. Remove nuts and washers holding retaining plate and warmer element to plate.
4. Installation is reverse of removal.

WIRING DIAGRAMS



NK Pourover - 120/240 V



NK Pourover - 120 or 240 V

TROUBLE SHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE	WHAT TO CHECK	REMEDY
NO HOT WATER	1. Tank heater.	1. Check the voltage at the tank heater terminals. Voltage should be 120 V A.C.	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.
DRIPPING	1. Not siphoning properly.	1. Water should flow freely from the sprayhead.	1. (A) Clean sprayhead holes. (B) Check tightness of sprayhead tube. (C) See "LIMING", Page 2.
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.
OVER FLOWING	1. Receiving decanter not completely empty at the start of the brew cycle.	1. Operating instructions.	1. Always start brew cycle with receiving decanter empty.
	2. Not siphoning properly.	2. Refer to "DRIPPING", Step 1.	2. Refer to "DRIPPING", Step 1.
COLD WARMER STATION (Models with warmers)	1. Warmer - defective.	1. Voltage at warmer terminals should be 120 V A.C.	1. If voltage is present on terminals, but warmer will not heat, replace warmer.
	2. Warmer ON/OFF Switch.	2. If voltage is not present on warmer terminals, check continuity of switch.	2. If switch does not make and break continuity when turned off, replace switch.
	3. Bad harness.	3. Check connections between harness and switch, and between switch and warmer.	3. All connections should be tight.

WARRANTY

Newco coffee brewers are warranted against defects in worksmanship 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 claim with the carrier.

Newco Enterprises, Inc. *3650 New Town Blvd. St. Charles, MO 63301