NEWCO ENTERPRISES, INC.

Service Manual PN: 110402
Rev:11.29.2018



AK-1



AK-2



AK-TC



AK-AP



AK-D



AK-3

NEWCO ENTERPRISES
INSTALLATION & OPERATION MANUAL
AK SERIES BREWERS

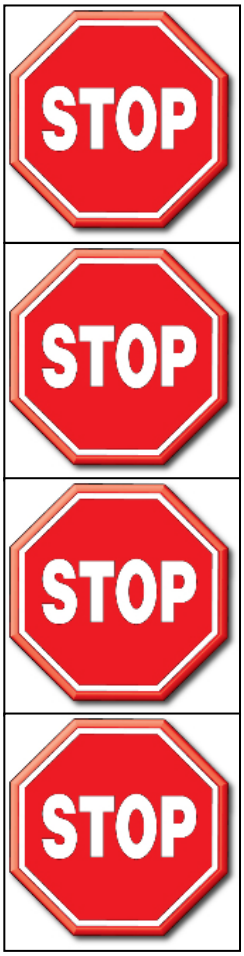
Note: Decanters & Dispensers Not Included

BREWER SPECIFICATIONS

Model	# of Warmers	Width	Length	Height*	US 120V Amps**	Canada 120V Amps**
AK-1	1	8 1/2"	16 3/8”	16 15/16”	12.5	11.2
AK-2	2	8 1/2"	16 3/8”	18 9/16”	13.3	10.8
AK-3	3	15 1/2"	16 3/8”	16 15/16”	14.2	11.7
AK-LD	NA	8 1/2"	16 3/8”	21 3/16”	14.6	11.7
AK-TC	NA	8 1/2"	16 3/8”	17 5/8”	14.6	11.7
AK-AP	NA	8 1/2"	16 3/8”	23 5/16”	14.6	11.7
AK-D	NA	8 1/2"	17 3/8”	27 3/8”	14.6	11.7

*Height with ABS base shown for airpot/dispenser models
**Other wattage/voltage available as special order

DON’T FORGET!



Always Fill the Water Tank

BEFORE

Plugging In the Brewer

USE 3 PITCHERS OF WATER

Put the basket & a container underneath the brewbasket before pouring in the water

CAUTION:

DO NOT PLUG UNIT IN UNTIL INSTALLATION PROCEDURES HAVE BEEN READ!

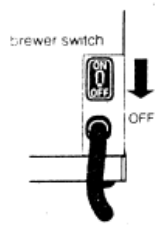
IMPORTANT SAFEGAURDS

When using electrical appliances, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and/or injury to persons, including the following:

- **Read all instructions before using your coffee brewer.**
- Do not touch hot areas, use handles or knobs.
- To protect against electric shock, do not immerse cord, plugs, or machine in water or other liquid.
- Do not permit children to use this appliance without close adult supervision.
- Do not operate if this appliance has malfunctioned or has been damaged in any manner.
- The use of accessory attachments is not recommended. May cause hazards or injuries.
- Do not use outdoors.
- Do not let cord drape over edge of table or counter, or touch hot surfaces.
- Do not place this appliance on or near a hot gas or electric burner or in a heated oven.
- To disconnect, turn all switches to the “off” position, then remove the plug from the wall outlet.
- Do not use appliance for other than intended use.
- Use on a hard, flat level surface only, to avoid interruption of airflow underneath the appliance.
- Do not place any combustible materials near the appliance.
- Warning: To reduce the risk of fire or electrical shock, do not remove any service covers. Authorized personnel should do repairs only.
- To save energy, and prevent evaporation, turn off master switch during long periods of non-use. Master switch is located on the back of the brewer.

WARNING: Read and follow installation/setup instructions before plugging or wiring in brewer to electrical circuit. Warranty will be void if brewer is connected to any voltage other than specified on the nameplate.

Installation/Setup Instructions:



- Remove brewer from the carton and take off the plastic bag.
- Place a decanter/airpot under the brew basket, raise the evaporation cover and pour 3 pitchers of water through the pour-in screen. Water should come through the brew basket as the 3rd pitcher of water drains out of the pour-in basin.
- Brewer is shipped with thermostat turned on. Plug in machine to appropriate voltage circuit as indicated on serial tag.
- Allow 10 to 15 minutes for the 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.)
- After water has reached brewing temperature (thermostat will click off, heating noise will stop and green heating light will go on) pour 1 decanter/pitcher of water through the pour-in screen. More than the original amount of water [poured] will flow into the decanter/airpot due to water expansion in the tank. Now, the brewer is ready to use.*
- In higher altitude locations (5000 feet above sea level) the thermostat may have to be adjusted lower to prevent boiling.

* Pour one decanter or pitcher of water through the pour-in screen to check for 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/airpot is half full. Recommended temperature is 195° F.

COFFEE PREPARATION PROCEDURES:

1. The brewer is ready to make coffee when the green ready light is illuminated.
2. Place coffee filter into the brew basket.
3. Put the proper amount of coffee into the filter.
4. Slide the brew basket into the holder.
5. Place the empty decanter/airpot into position below the brew basket. [Open the lid to the airpot.]
6. Raise the top evaporation cover and pour one pitcher/decanter of cold water through the pour in into the basin. Do not overfill unit by pouring in more than one pitcher/decanter of water at a time.
7. Hot water will be delivered through the spray head. This will distributes the hot water over the bed of coffee within the brew basket. The liquid product will drain from the brew basket into the decanter/airpot below.
8. To clean the brew basket simply remove from it from the brew rails and dump coffee filter into a waste basket. The brewing process, as described above, can be now be started again. Remember: The optimum brewing temperature is when the green ready light is illuminated.

LIMING: [*Turn off the unit before performing this procedure.*]

To prevent liming problems, in tank fittings, remove the spray head and insert the de-liming spring all the way through the spray head tube until it stops. Note: No more than 10 inches of spring should be visible at the spray head opening/fitting. Motion back and forth at 5 to 6 times. This will keep the spray head tube clear of lime. In hard water area this should be done every day. This process takes approximately one minute to do. In all areas the spray head should be cleaned at least once a week. Where harsh liming has already occurred, a new complete tank assembly may, or should, be installed. The new tank assembly exchange may take 5-10 minutes time.

AUTOMATIC WARMER SAFETY SHUT OFF – OPTIONAL FEATURE

Warmer models may be equipped with an electronic control system, which automatically monitors the length of time the warmers are on, and shuts them off after they have been turned on for a preset length of time. The model number on the serial tag of brewers equipped with this feature is appended by “AS”. For example an AK-3AS is a 3 warmer AK Series brewer with Automatic Warmer Shutoff.
The warmer shutoff control is initially set at the factory for 2 hours but the duration of “on” time, for the warmers, may be adjusted between 30 minutes and 4 hours; depending on the usage of your customer. To adjust the time, simply remove the access panel located on the right side of the brewer. Use a screwdriver to turn the knob. Turning the knob clockwise will increase the “on” time and counter clockwise will decrease the length of “on” time the warmers will stay on.

The warmer control board will operate all warmers “on” for the same amount of time. The “on” time will automatically be reset, to the programmed time, when any warmer is turned on. For example, if the customer has turned on the lower warmer and then 30 minutes later turns on the 2nd warmer, the “on” time for both warmers will automatically be reset for the full programmed time of 2 hours. [Assuming the factory set time of 2 hours is used.] This feature eliminates individual warmers shutting off separately. A warmer may be turned off manually by depressing the appropriate control switch. The red pilot light indicates that the warmer is on.

WARRANTY

Applies to all equipment manufactured after 2/1/2017. This warranty supersedes all other previous warranties that are currently in manuals**.**

- Newco warrants equipment manufactured by it for 1 year parts and labor.
- Accessories and Dispensers 1 Year parts only.
- Electronic Circuit and Control Boards- 3 years parts, 1 year labor.
- Equipment manufactured by others and distributed by Newco- please see original equipment manufacturers warranty, Newco will follow.

These warranty periods run from the date of sale Newco warrants that the equipment manufactured by it will be commercially free of defects in material and workmanship existing at the time of manufacture and appearing within the applicable warranty period. This warranty does not apply to any equipment, component or part that was not manufactured by Newco or that, in Newco's judgment, has been affected by misuse, neglect, alteration, improper installation or operation, relocation or reinstallation, improper maintenance or repair, incorrect voltage applied to the unit at any time, damage or casualty. This warranty does not apply to any equipment failures related to poor water quality, excessive lime and chlorine and non-periodic cleaning and descaling. Warranty is null and void if muriatic or any other form of hydrochloric acid is used for cleaning or deliming. In addition, this warranty does not apply to replacement of items subject to normal use including but not limited to user replaceable parts such as faucet seat cups, sight gauge tubes, washers, o-rings, tubing, seals and gaskets.

This warranty is conditioned on the Buyer 1) giving Newco prompt notice of any claim to be made under this warranty by telephone at (800) 556-3926 or by writing to 3650 New Town Blvd, Saint Charles, MO 63301; 2) if requested by Newco, shipping the defective equipment prepaid to an authorized Newco service location; and 3) receiving prior authorization from Newco that the defective equipment is under warranty.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY OTHER WARRANTY, WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF EITHER MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The agents, dealers or employees of Newco are not authorized to make modifications to this warranty or to make additional warranties that are binding on Newco. Accordingly, statements by such individuals, whether oral or written, do not constitute warranties and should not be relied upon.

If Newco determines in its sole discretion that the equipment does not conform to the warranty, Newco, at its exclusive option while the equipment is under warranty, shall either 1) provide at no charge replacement parts and/or labor (during the applicable parts and labor warranty periods specified above) to repair the defective components, provided that this repair is done by a Newco Authorized Service Representative; or 2) shall replace the equipment or refund the purchase price for the equipment.

THE BUYER'S REMEDY AGAINST NEWCO FOR THE BREACH OF ANY OBLIGATION ARISING OUT OF THE SALE OF THIS EQUIPMENT, WHETHER DERIVED FROM WARRANTY OR OTHERWISE, SHALL BE LIMITED, AT NEWCO'S SOLE OPTION AS SPECIFIED HEREIN, TO REPAIR, REPLACEMENT OR REFUND.

In no event shall Newco be liable for any other damage or loss, including, but not limited to, lost profits, lost sales, loss of use of equipment, claims of Buyer's customers, cost of capital, cost of down time, cost of substitute equipment, facilities or services, or any other special, incidental or consequential damages.

AK POUR OVER BREWER – REPLACEMENT PARTS LIST

	Electrical Components
110970	EGO Thermostat Assembly with Wires
110574	Hi Limit Thermostat Auto Straight Tab
100269	Hi Limit Thermostat Bracket
202025	Heating Element, 1750W 120V
701170	Heating Element, 1400W 120V
202057	Heating Element, 1100W 120V
100187	Warming Element, 100W 120V
101840	Warmer Shutoff Board Assembly
101390	Board Only, Warmer Shutoff
102844	Nylon Support, Snap In
110581	Mounted Support Screw, Board
100500	On/Off Rocker Switch, Black
100085	Lighted On/Off Rocker Switch, Red
102562	102562, Momentary Switch – Auto Shutoff
781432	Rocker Switch, Red Light
100022	Power Cord, 15Amp 120V 14/3
101035	Strain Relief, 120V 15Amp
110130	Green Ready Light Assembly, AK
101698	Green Ready Light Lens Only

	Label/Decals
100254	Decal, “Hot Surfaces”
101717	Label, AK-2AS Switch Plate
101718	Label, AK-3AS Switch Plate
101719	Label, AKAP – AKLD – AKD - AKTC Face Plate
110057	Label, AK-2 Switch Plate
110058	Label, AK-3 Switch Plate
110120	Label, “Hot Liquids”

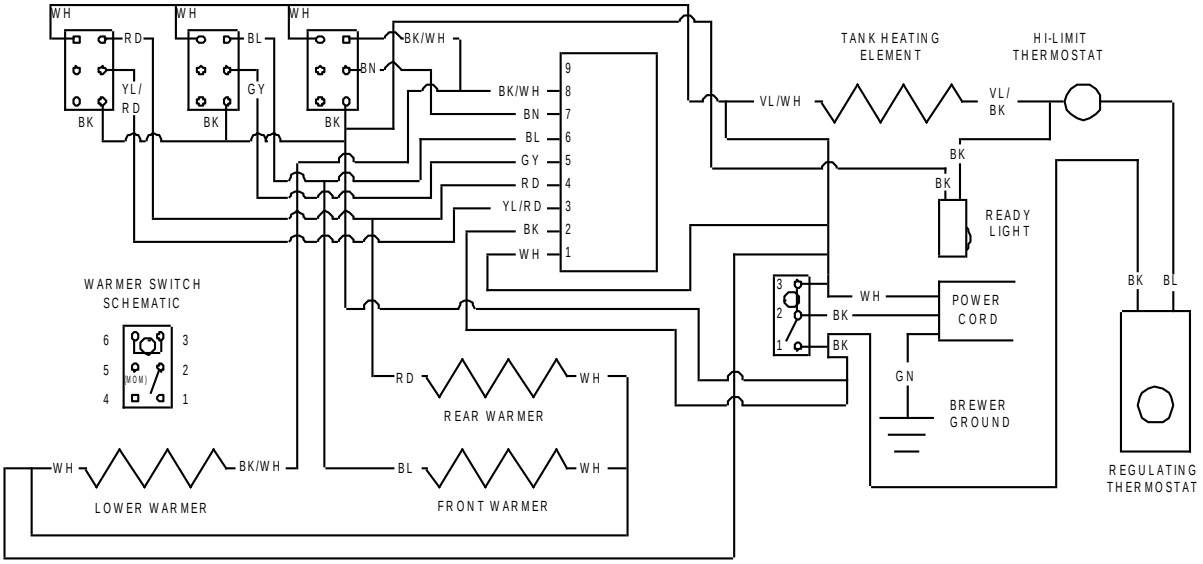
	Tank & Plumbing Components
101842	Tank Assembly 1400W
101857	Tank Assembly 1750W
705199	Tank Lid Assembly 1400W
705399	Tank Lid Assembly 1750W
704119	Tank, Only
704221	Tank Gasket, Only
700016	Receiving Pan Gasket, Silicone 1.062” OD x .578” ID
700325	Receiving Pan, Only
781555	Delivery Tube Gasket
701200	Slotted Hex Nut, 3/4”-16
700015	Washer, 1” OD x ¾” ID SS

	Hardware & Miscellaneous
100008	Warmer Porcelain Plate Only, Black
100010	Warming Plate Assembly, Black 120V
100160	Screw, 4-40 x 5/8” SPHMS SS
100078	Bumper Foot with Screw
110985	Brew Basket, Black
102799	Right-hand Brew Rail
102800	Left-hand Brew Rail
108014	Access Plate, Control Board
110624	Cover Only, Pour In Black Plastic
110625	Pour In Assembly [Grid & Cover] Black Plastic
101726	Spray Head Tube Assembly
100024	5 Hole Spray Head
100025	Spray Head Gasket, Silicone
201173	Spray Head nut, 7/16”-20
110385	Base, Plastic Black AKAP, AKTC, AKLD & AKD

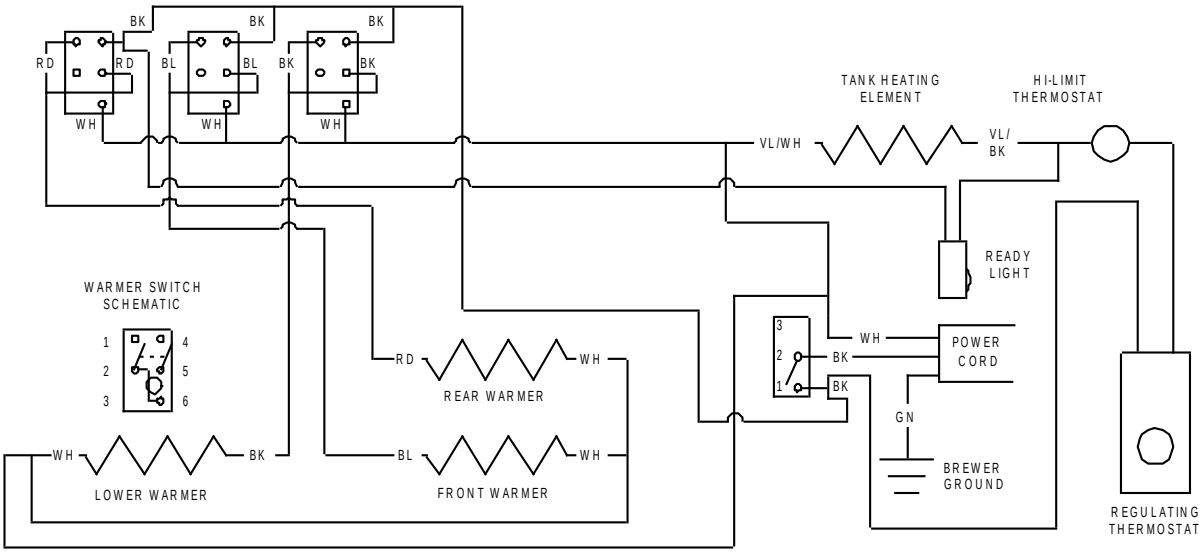
Caution: Unplug Brewer from Electrical Outlet before Removal of Any Panel or Replacement of Any Components

WIRING DIAGRAMS

AK WARMER MODELS - WITH AUTO WARMER SHUTOFF



AK WARMER MODELS - WITHOUT AUTO WARMER SHUTOFF



AK THERMAL (AIRPOT/DISPENSER) MODELS

