

# 176 MITTEL DRIVE, WOOD DALE, IL 60191

# T-3000, T-3000 PLUS AND PROFITEER POPCORN MACHINE OPERATION MANUAL

120 Volt, Single Phase, 60 Hz

230 Volt, Single Phase, 50 Hz

**Included in this manual:** \*One Pop Option \*Salt/Sugar Option



**<u>READ</u>** and <u>**UNDERSTAND**</u> these operating, and safety instructions before operating this popcorn machine

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### I. SAFETY ALERT SYMBOL

The symbol shown below is used to call your attention to instructions concerning your personal safety and the safety of others. Watch for this symbol. It points out important safety precautions. It means **ATTENTION! Become Alert! Your personal safety is involved!** Read the message that follows and be alert to the risk of personal injury or death.



# **II. SAFETY FIRST**



The information in this manual is essential for the safe installation and operation of your Cretors popcorn machine. The manual must be read and understood before installing, or operating this equipment, or equivalent training must be provided.



"The employer shall instruct each employee in the recognition and avoidance of unsafe conditions, as well as, the regulations applicable to his work environment to control or eliminate any hazards or other exposure to illness or injury". Ref.: 29 CFR 1926.20 (b)(4)(a)(2)



It is understood that safety rules within individual companies vary. If a conflict exists between the safety procedures contained in this manual and the rules of a using company, the more stringent rule should take precedence.

### III. INTRODUCTION

This manual is filled with time-saving and money-saving information regarding your Cretors popcorn machine. There is nothing, however, more important than the safety aids and warnings that are found throughout this document. The Safety Alert Symbol is used to identify topics of primary safety concern wherever they appear. Furthermore, a separate section has been included which deals exclusively with operation and accident prevention.

If, after reviewing this manual, anything is unclear or technical problems are encountered, contact the distributor from whom you purchased your machine for assistance. If there are any additional questions, feel free to contact our Customer Service Department at the address and/or phone number listed on the last page of this manual. Always have the model and serial number of your machine available to assist in obtaining the correct information.

#### IV. PURPOSE OF MANUAL

This instruction manual is intended to familiarize owners with the operation, and safety procedures associated with your Cretors popcorn machine.

This manual should be kept available to operating personnel.



A person who has not read and understood all operating and safety instructions is not qualified to operate the popcorn machine.

# IV PRODUCT IDENTIFICATION

CRETORS POPCORN MACHINE T-3000 COUNTER MODEL:

ELECTRICAL SPECIFICATIONS:

T-3000, T-3000 PLUS, and Profiteer Popcorn Machines are available in any of the following Electrical configurations.

120 Volt, Single Phase, 60 Hz 230 Volt, Single Phase, 50 Hz

#### V. PRINCIPLES OF POPCORN MACHINE OPERATION

#### Theory and Observations of Popcorn Machine Operation

- A. The efficient production of popcorn requires the presence of popcorn kernels, heat, and oil. The purpose of the oil is to distribute the heat throughout kernels evenly and quickly. If the heat is not distributed evenly and quickly, the kernels may burn instead of pop.
- B. In order to pop corn in oil, the kettle, oil and parts near the heating elements are necessarily and unavoidably heated to temperatures high enough to pop popcorn. The temperature control uses a sensing thermostat located inside the kettle to maintain the kettle at an operating temperature of approximately:

465° F (241 °C) for salted corn 390° F (199 °C) for sugar corn



Contact with these surfaces will burn and scald you. Do not touch kettle, oil or parts in the direct vicinity of the heating elements.

C. The kettle is provided with an agitator to assist in the quick and even distribution of heat throughout the kernels.



The oil is heated to high temperatures in a kettle provided with electric heating elements to reach proper popping temperature. An operator is required in the vicinity of the kettle only when handling corn or dumping popped corn from the kettle. Neither of these operations requires direct contact with the kettle. Direct contact with the hot oil, kettle, or heating elements could result in serious burns or scalds. Keep away from the kettle whenever possible. Use the handle when dumping the kettle, and use the provided cups when necessary to measure corn, oil and salt.

- D. As the popcorn pops, it will push the lid open and discharge into the cabinet. When the corn finishes popping, the corn remaining in the kettle can be removed by holding the kettle handle in your right hand and rotating down in a clockwise direction to dump the kettle.
- E. Your T 3000 and profiteer model Cretors popcorn popper case is equipped with a heat lamp and a thermostatically controlled heat pad to keep the popcorn fresh and crisp. T-3000 plus is provided with a forced hot air cornditioner system.
- F. One Pop Option only allows the kettle to pop one batch of corn at a time and then shut down. The One Pop Option makes it impossible to leave a kettle heat turned on.
- G. The kettle heat indicator light will be on when the kettle is heating. The kettle will heat until the thermostat opens at the end of the popping cycle. When the thermostat opens, the kettle heat indicator light goes out and the kettle begins to cool. The kettle will not begin to heat again until the kettle has cooled and the One Pop button is pressed.
- H. When popping several batches in sequence, the kettle heat indicator light may not go on immediately when the One Pop button is pressed. It may be necessary to add the corn and oil to the kettle to cause it to cool down enough to begin another cycle.
- I. If the machine is equipped with the Salt/Sugar option, the operator moves the toggle switch to either the salt or sugar position for desired corn type. The oil volume will be set to the appropriate amount. In the salt position, the thermostat will turn off at the sugar temperature but a timer will allow the heat to remain on until the corn has finished popping.

## VI. CONTROL SWITCHES (Not all machines contain all of these switches.)

INDICATOR LIGHT	-Indicates operation of the kettle heat element.
KETTLE HEAT	-Turns kettle heat On/Off.
AGITATOR	-Turns the stirrer blade motor On/Off.
LIGHTS	-Turns light in cabinet and heat pad On/Off. (or cornditioner)
OIL	-Provides power to the oil pump.
DELIVERY	-Initiates the pump cycle (if equipped).
ONE-POP	-Starts One-Pop cycle (delivers oil if equipped with oil pump option).
SALT/SUGAR	-Sets the kettle temperature (and pump) to proper settings.

# VIII. OPERATING INSTRUCTIONS



Do not attempt to operate your Cretors popcorn machine until you have read and understood this manual. Failure to do so may result in serious injury or death.



Do not attempt to operate your Cretors popcorn machine unless the installation instructions have been strictly adhered to. Failure to do so may result in serious injury or death.



Operate your Cretors popcorn machine only if it is in sanitary condition (See **SANITATION INSTRUCTIONS**). Failure to do so may result in illness to your customers.



**WARNING!** Always add corn to the kettle before adding oil. Failure to do so may result in the oil being heated too rapidly resulting in a fire.

#### A. To operate your Cretors popcorn popping machine:

- 1. Fill the corn measure with corn and the salt measure with salt, and empty these into the kettle. When making sugar corn, add the correct amount of sugar, rather than salt, with the measure of corn. Then add oil.
- 2. Close the kettle lid by pulling the knob down.
- 3. If equipped, move Salt/Sugar switch to desired mode.
- 4. Turn on the agitator, turn on the kettle heat.



**WARNING!** After the first popping the kettle is hot. Avoid contact with the kettle when adding corn or salt. Failure to do so may result in serious burns or scalds.

Measuring cups have been provided to accurately measure the proper amounts of popcorn, salt and oil. The correct amount for each popping is:

#### SALTED CORN

VOLUMETRIC MEASURE			
Kettle Size	Corn	<u>Oil</u>	Salt
12 oz.	12 oz.	4 oz.	1 tsp.
	336 grams	118 ml	
14 oz.	14 oz.	4-5 oz.	1.5 tsp.
	420 ml.	135 ml	7.5 ml
SUGAR CORN			
	VOLUMETRIC ME	EASURE	
<u>Kettle</u>	Corn	<u>Oil</u>	<u>Sugar</u>
12 oz.	12 oz.	2 oz.	2 oz.
	336 grams	56 ml	56 ml
14 oz.	12 oz.	2 oz.	2 oz.
	355 ml.	67 ml	67 ml

5. As the popcorn pops, it will push the lid open and discharge into the cabinet. When the corn finishes popping, lift the cover up. The corn remaining in the kettle can be removed by holding the kettle handle in your right hand and rotating down in a clockwise direction to dump kettle.



Avoid contact with the kettle when dumping popped corn. Failure to do so may result in serious burns or scalds.

**NOTE**: The ideal time for maximum volume (corn expansion) is between 2-3/4 to 3-1/2 minutes from the time the corn is placed into the kettle until the time it is dumped. Check the popping time after several popping cycles. Reduce the charge of raw corn if the time is more than 3-1/2 minutes and increase the charge if the time is less than 2-1/2 minutes per popping. This also may indicate you have a problem with either the thermostat or heating element. If this is not the case, please refer to the Trouble Shooting Section in your Service Manual.

# IX. SANITATION INSTRUCTIONS



Be certain the machine is turned off and power is unplugged before sanitizing this machine unless a specific cleaning procedure requires power to the machine. Failure to do so could result in injury or death.



Do not clean heated surfaces until they have been given sufficient time to cool. Failure to do so may result in serious burns.

#### A. Popping Kettle



Do not immerse an assembled pan in water. This will damage the electrical components and may cause short circuits resulting in electrical shock hazard if power is applied.

- 1. Do not use steel wool or other similar abrasives to clean the nickel plated kettles, as they will ruin the kettle by removing the nickel plating. Stainless steel kettles can be cleaned aggressively.
- 2. Do not attempt to clean the kettle with power connected unless you are boiling the CKC cleaning compound to clean the inside of the kettle. Follow instructions in step in step 4.



Do not attempt to clean a hot kettle. Failure to do so may result in serious burns or scalds.

Do not throw ice into a hot kettle. Doing so can cause damage to the pan and invalidate the warranty.

- 3. The kettle either has a polished nickel finish or is a stainless steel finish and is very easy to clean if oil is not allowed to burn. After the final popping, the best practice is to wait until the oil just begins to solidify, then take a cotton towel or absorbent rag and wipe the kettle. Once the oil is allowed to completely solidified, it can become more difficult to remove. We recommend coconut oil for your Cretors popper; it will not stick or burn as easily as other oils.
- 4. A thorough cleaning every week with CKC cleaning compound is recommended. This will prevent the accumulation of carbon on the bottom and internal sides of the kettle. When boiling the CKC cleaning compound in the kettle, do not fill the kettle with more than 3/4" high of water inside the kettle. If the kettle has been overheated or oils that tend to carbonize are used the normal cleaning procedures may not suffice. Increase frequency as needed.
- 5. Cretors Outside Kettle Cleaner COC should be used periodically to remove popping oil that may become baked to the outside of the kettle.
- 6. The kettle agitator assembly should be removed weekly for thorough cleaning.
- 7. The stirrer blade is disassembled by lifting up the cover, pulling up the counterweight and then lifting the stirrer blade and pulling out. Pull down the counterweight and cover until they come off of agitator shaft.
- 8. Clean all parts thoroughly, making sure to use CKC. Do not use any harsh abrasives or cleaning material.

9. Reassemble in reverse order, following the directions given.

#### B. Cabinet



Failure to empty the drawer and to clean the cabinet may result in a fire hazard due to restricted airflow from the corniditioner.

- 1. Remove and empty the waste clean-out drawer daily or whenever it is full. Under heavy use this may need to be done more often
- 2. The cabinet glass can be cleaned with any good grade glass or household cleaner suitable for glass and plastic surfaces. The inside of the cabinet can be cleaned with the same cleaner as the outside, if it is the type that has a cleaning agent to cut the oil remaining from the popping operation, and it is acceptable for food contact surfaces. Do not soak unit with water. Avoid wetting of inside of electrical enclosure.
- 3. The doors can be cleaned with Cretors' Plastic. This product is specially formulated to clean plastic doors. Do not use cleaners that have ammonia or alcohol. The use of these cleaners will cause the doors to become brittle and crack.

### C. Under Cabinet

The area underneath the machine should be cleaned as required. To reduce the overall weight of the machine, remove the kettle assembly, by performing the following operations:

- 1. Unplug the popcorn machine from the power supply.
- 2. Unplug the kettle from the top of the machine by twisting and pulling the plug out of the receptacle.
- 3. Remove the kettle retaining spring to release the kettle.



Use proper lifting techniques when removing the kettle assembly to avoid injury to your back.

- 4. Slide kettle away from you towards the front of the machine.
- 5. Re-install pan in reverse order, making sure pan mounting bracket catches in the slots cut in the tubing.

This appliance should not be cleaned with a water jet.

This manual is filled with time-saving and money-saving information regarding your Cretors machine. There is nothing, however, more important than the safety aids and warnings found throughout this document.

If you have any questions regarding the operation or cleaning of your Cretors popcorn popper, contact your local distributor. Should you have any difficulties or are unable to reach them, feel free to contact the Customer Service Department at C. Cretors and Company.

Additional copies of this manual can be obtained from C. Cretors and Company at the address listed below. Please provide model and serial number when requesting additional copies of this manual. There will be a nominal charge for additional copies.

Cretors guarantees this machine to be free of defects in parts, materials and workmanship for two years. Please take this time to fill out the factory registration card and return it to the factory to activate your warranty. If you have any questions concerning the Cretors' warranty, please contact your local distributor or the Customer Service Department at C. Cretors and Company.



C. CRETORS AND COMPANY 176 MITTEL DRIVE WOOD DALE, IL 60191 PHONE (847) 616-6900, (800) 228-1885, FAX (847) 616-6970 WEB SITE: http://www.cretors.com Email: postmaster@cretors.com



# 176 MITTEL DRIVE, WOOD DALE, IL 60191

# T-3000, T-3000 PLUS AND PROFITEER POPCORN MACHINE SERVICE MANUAL

100/120 Volt, 50 or 60 Hz

120 Volt, Single Phase, 60 Hz

230 Volt, Single Phase, 50 Hz

**Included in this manual:** \*One Pop Option \*Salt/Sugar Option



**<u>READ</u>** and <u>**UNDERSTAND**</u> these servicing, and safety instructions before operating or servicing this popcorn machine

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#### I. SAFETY ALERT SYMBOL

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# **II. SAFETY FIRST**



The information in this manual is essential for the safe installation and maintenance of your Cretors popcorn machine. The manual must be read and understood before installing and operating the equipment, or equivalent training must be provided.



"The employer shall instruct each employee in the recognition and avoidance of unsafe conditions and the regulations applicable to his work environment to control or eliminate any hazards or other exposure to illness or injury". Ref.: 29 CFR 1926.20 (b)(4)(a)(2)



It is understood that safety rules within individual companies vary. If a conflict exists between the safety procedures contained in this manual and the rules of a using company, the more stringent rule should take precedence.

### **III. INTRODUCTION**

This manual is filled with time-saving and money-saving information regarding your Cretors popcorn machine. There is nothing more important than the safety aids and warnings that are found throughout this document. The Safety Alert Symbol is used to identify topics of primary safety concern wherever they appear. Furthermore, a separate section has been included which deals exclusively with service and accident prevention.

If, after reviewing this manual, anything is unclear or technical problems are encountered, contact the distributor from whom you purchased your machine for assistance and if there are any additional questions, feel free to contact our Customer Service Department at the address and/or phone number listed on the back cover of this manual. Always have the model and serial number of your machine available to assist in obtaining the correct information.

#### **IV. SPECIFICATIONS**

#### A. ELECTRICAL SPECIFICATIONS

T-3000 Popcorn Machines are available in any of the following Electrical configurations. 120 Volt, Single Phase, 60 Hz 230 Volt, Single Phase, 50 Hz

#### **B. SIZE SPECIFICATIONS:**

MODEL T-3000	T-3000 12 OZ. ELECTRIC COUNTER MODEL	
Capacity:	12 oz. All-Steel Kettle, 280 one-ounce servings per hour	
Electrical:	1800 watts	
Dimensions:	21-1/2"D x 24-1/2"W x 34.5" H 54.6 cm D x 62.2 cm W x 87.6 cm H	
Net Weight:	85lbs. (35.6 kg.)	

MODEL T-3000 PLUS	T-3000 PLUS 12 OZ. ELECTRIC COUNTER MODEL		
Capacity:	12 oz. All-Steel Kettle, 240 one-ounce servings per hour		
Electrical:	2260 watts		
Dimensions:	21"D x 24"W x 34.5" H 54cm D x 62 cm W x 87.6 cm H		
Net Weight:	85lbs. (35.6 kg.)		

MODEL PT14C	PROFITEER 14 OZ. ELECTRIC COUNTER MODEL	
Capacity:	14 oz. All-Steel Kettle, 280 one-ounce servings per hour	
Electrical:	1850 watts	
Dimensions:	22"D x 28"W x 34-1/2" H - 55.8 cm D x 71.2 cm W x 87.6 cm H	
Net Weight:	85lbs. (35.6 kg.)	

# V. PURPOSE OF MANUAL

This instruction manual is intended to familiarize owners with the servicing and safety procedures associated with your Cretors popcorn machine.

This manual should be kept available to maintenance personnel. A person who has not read and understood all service and safety instructions is not qualified to service the popcorn machine.

#### VI. INSTALLATION INSTRUCTIONS

#### A. Location

Choose a location for your Cretors popcorn machine to maximize the ease of operation and maintenance procedures. Check your local building and fire codes for location restrictions.

#### B. Power Supply

1. Check the nameplate to determine the required power supply.

If the supply cord is damaged, it must be replaced by Cretors', or by a Cretors' approved service agent, or a similarly qualified person in order to avoid a hazard.



Connect your popcorn popper only to the correct power source. Failure to do so may result in personal injury or death and may damage your machine.

2. C. Cretors and Company recommends dedicated circuits for the T-3000 popcorn machine. The T-3000 model popcorn machine requires dedicated circuits to avoid a voltage drop in the supply wire. Check your local electrical codes regarding fuse or circuit breaker requirements.



Make certain the Rocker Switches on the popcorn popper are in the off position when plugging into power source. Failure to do so may result in damage to your machine or present a shock hazard.

#### C. Connecting Machine to Power Supply



Perform work only on de-energized circuits. Failure to do so may lead to electrical shock resulting in personal injury or death.

- 1. Make certain that power supply circuit breakers are in the off position.
- 2. Push the plug completely into the receptacle. If the cord has a twist lock plug be sure to turn to lock in position. Turn on the power supply circuit breakers and then turn on the machine Rocker Switch.

#### VII. SERVICE INSTRUCTIONS



In the case of improper service, qualified personnel only should perform the following diagnostic checks, and, if necessary, corresponding adjustments and repairs. Many of the following procedures present an electrical shock hazard and can cause serious injury or death.

#### A. Parts

When ordering parts, refer to the parts diagram included with this manual. Always supply the serial number, model number, and voltage of your T-3000 popcorn machine.

If the supply cord is damaged, it must be replaced by Cretors', or by a Cretors' approved service agent, or a similarly qualified person in order to avoid a hazard.

#### **B. Kettle Temperature Control**

#### 1. THERMOSTAT OPERATION

a. The thermostat is installed as a safety device to prevent overheating of the kettle if the machine should be left unattended momentarily while in operation. The operation of the thermostat is indicated by the kettle indicator light. The thermostat is located in the kettle. The indicator light should stay on for most of the popping cycle. The indicator light should go off 10-20 seconds before the corn finishes popping and the kettle is dumped. If the indicator light goes out 30 seconds or more before the corn finishes popping, the thermostat may be set too low and be in need of adjustment. See instructions below to adjust the thermostat.



If set too high (over 500°F 260°C), the thermostat can cause a serious fire hazard.

B. Repair part thermostats shipped from the factory have been factory adjusted to switch off the current to the heating elements when the kettle temperature reaches 465° F (240°C). The factory setting should prove satisfactory; however, each thermostat must be checked after installation to confirm correct operation. To adjust the thermostat, perform the following operations:

#### 2. THERMOSTAT ADJUSTMENT

- a. Locate the plugged thermostat adjustment hole on the bottom of the kettle retainer and remove the plug.
- b. Turn on the kettle heat.
- c. Locate pyrometer over thermostat.
- d. Set temperature so that the power to heat elements is cut off at the correct temperature.

<b>KETTLE</b>	SALTED CORN	SUGAR CORN
12 OZ.	465° F. (240° C)	390° F. (193° C)
14 OZ.		

- e. To adjust thermostat, insert a flat blade screwdriver into the slotted adjustment screw and turn COUNTER- CLOCKWISE to raise the temperature or CLOCKWISE to lower the temperature.
- f. Do not adjust more than one-quarter turn at a time. Check temperature after each one-quarter turn adjustment.
- g. If no pyrometer is available, the thermostat may be adjusted by observing the operation of the indicator light as described in the Thermostat Operation section. Adjust the thermostat so that the kettle heat is turned off 10 to 20 seconds before the corn finishes popping and the kettle is dumped



**WARNING!** If the corn has dried out, it may not finish popping at normal temperature, and the light may appear to go out early. **DO NOT ADJUST KETTLE TEMPERATURE BASED ON POOR QUALITY CORN.** 



Do not adjust the temperature so high that the pan smokes at the end of the popping cycle. If set too high (over 500°F or 260°C), the kettle can become a serious fire hazard.

- h. Your final setting should allow the indicator light to cycle off 10 20 seconds prior to dumping the kettle.
- i. Observe two or three cycles of correct operation to be certain everything is working correctly.

### C. Kettle Removal

To remove the kettle assembly, perform the following operations:

- 1. Unplug the popcorn machine from the power supply. Make sure the kettle is not hot.
- 2. Unplug the kettle from the top of the machine by twisting and pulling the plug out of the receptacle.
- 3. Remove the kettle retaining spring to release the kettle.



Use proper lifting techniques when removing the kettle assembly to avoid injury to back.

- 4. Slide kettle away from you towards the front of the machine.
- 5. Turn the kettle upside down and remove the screws that clamp the flexible conduit where it enters the pan.
- 6. Remove the nuts on the retainer.
- 7. Lift the retainer off the kettle and feed cable in through fitting. If carbon has formed, careful tapping with a wood or other soft faced hammer around the edge of the retainer will break it loose.
- 8. When removing nuts and spacers from the threaded studs on the bottom of the pan, do not wipe off the silver lubricant. Without this lubricant (NEVER SEEZ) the nuts may freeze on the studs and cause the studs to break when the nuts are turned, in an attempt to remove them.

### D. Kettle Alignment

1. The kettle level adjustment is made by removing the Dump Column Cover to gain access to the leveling arm.

2. Loosen the two screws holding the leveling arm in place. Hold leveling arm tight against the tension spring and move kettle up or down until the kettle is level; then tighten screws.

# VIII. TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	ACTION
Popping is slow.	Incorrect amount of corn and	Refer to the chart located in the
	oil used.	Operations Manual.
	Kettle indicator light goes out	Temperature is set too low.
	more than 30 seconds before	(Refer to Thermostat
	the corn finishes popping.	Adjustment.)
	Voltage may be low.	Check the voltage at the circuit
		breaker with the kettle heat on.
		Extension cords or inadequate
		wiring will provide full
		voltage, if no load is applied.
		Once the kettle heat and
		auxiliaries are turned on, the
		voltage may drop 5 to 10 volts.
Indicator light stays on.	One of the elements in multi-	ter to diagnose.
	element pans may have failed.	Check the amperage draw of
		the heating elements, by using
		a clamp-on ammeter.
		1. Remove the top of the
		machine by removing
		the screws that hold the
		top panel and lift the
		top off.
		2. Turn on the kettle heat.
		3. If machine has one-pop
		option shut off the oil
		switch and press the
		One-Pop button.
		_



Do not adjust the temperature so high that the pan smokes at the end of the popping cycle. If set too high (over 500°F or 260°C), the kettle can become a serious fire hazard.

<u>Kettle</u> 12 oz.	<u>Wire Color</u> brown blue	Elements 5801-A	<u>120V Amps</u> 12.5 amps
<u>Kettle</u> 12 oz.	<u>Wire Color</u> brown blue	<u>Elements</u> 5801-E	<u>230V. Amps</u> 6.52 amps
F	PROBLEM		ACTION
or more of the he properly. If the e causes are: 1. The element h 2. A lead wire h	ay indicate a problem eat elements may not element is not functio has burned out. as burned off one of to a loose connection	be functioning ning, the possible f the element	<ul> <li>In either case the kettle must be removed and the problem identified.</li> <li>1. Remove kettle. (See section Kettle Removal for instructions.)</li> <li>2. Check for short circuits inside the kettle.</li> <li>3. If wires must be replaced, be sure to use nickel wire supplied by Cretors. Conventional copper or "stove" wire will have limited life.</li> <li>4. Make a visual check for broken, loose, burned or heat damaged wires. If there are no obvious broken or loose wires shorting out on the kettle, the elements must be checked.</li> <li>5. Perform a continuity test on the elements. It is possible that one of the elements has burned through the insulation and the casing is shorting out directly to the kettle bottom.</li> </ul>

#### **Continuity Test and Ohms Test**

When checking the Ohms, make sure that the meter probes are making good contact on the terminals. Remove the nickel buss bars that connect the electrical terminals on the heat elements.

Using a multimeter, check each element between the following points:

Terminal to terminal

Ohms Reading 120V - 19.2  $\Omega$ 100V - 10  $\Omega$ 230V - 76.8  $\Omega$ No continuity-burned element; replace.

First terminal to element case	Continuity to case from terminal indicates a grounded element; replace. No continuity - functioning properly
Second terminal to element case	Continuity to case from terminal indicates a grounded element; replace. No continuity - functioning properly

Replace failed heat element with identical units available from your local dealer or from Cretors. Reassemble and reinstall kettle assembly onto the machine.

PROBLEM	POSSIBLE CAUSE	ACTION
Kettle will not heat.	The motor, light or any of	Check power supply:
	the other components do not	1. Is it plugged in?
	work.	2. Is the receptacle live?
		3. Is the machine plugged into the proper
		voltage?
		(Measure with voltmeter and compare to
		specification on nameplate of machine.)
	Problem is in the machine.	Check the amperage draw of the heating element
		by using a clamp-on ammeter.
		Check to determine whether or not heating
		element has failed.
		a. At room temperature, the thermostat should be
		calling for heat and providing power. To insure
		the One Pop button is working properly.
		Unplug the main power cord. With top cover
		removed, unplug the two wire connected to the
		One-Pop switch. Then using a Multi-Meter
		check for continuity across the two terminals of the quitch when the quitch is pressed. If no
		the switch when the switch is pressed. If no continuity replace switch.
		b. With all wires reattached, plug main power
		cord in. Turn on the kettle heat switch and
		press the One Pop button. Check the input on
		the relay coil. Terminals #1 and #0. For a 120V
		machine the reading will be 120V and for a
		230V machine it should be 230V.
		c. If the voltage is correct on the relay coil and the
		pilot light and kettle heat are not on. With a
		voltmeter check the output on the relay. From
		terminal #1 or the neutral from the heat switch
		to terminal #8. The reading should be 120V for
		domestic machines and 230V for export
		machines. If no reading, replace relay.



Some of the following procedures are performed with the power on. As with any electrical repairs, there is a shock hazard present.



Do not attempt electrical repairs on the power supply circuit unless you are qualified to do so. The electrical shock associated with line voltages can cause serious injury or death.

PROBLEM	POSSIBLE CAUSE	ACTION	
Corn Burns	Agitator is not working.	Check to be certain the stirrer	
		blade is on the bottom of the pan	
		and is stirring the corn.	
	Does the agitator driveshaft engage the	See section Kettle Alignment for	
	blade center and turn it?	instructions.	
	Does the kettle sag when corn is added	See section Return Spring	
	to the kettle causing the agitator to	Adjustment for instructions.	
	disengage?		
	Check motor connections.	Loose wire.	
	The motor is bad.	Replace.	
	The correct amounts of corn and oil	See Operations Manual for correct	
	were not used.	amounts.	
	Temperature is set too high.	Adjust temperature. See Kettle	
		Temperature Control.	

This manual is filled with time-saving and money-saving information regarding your Cretors popcorn popper. There is nothing, however, more important than the safety aids and warnings found throughout this document.

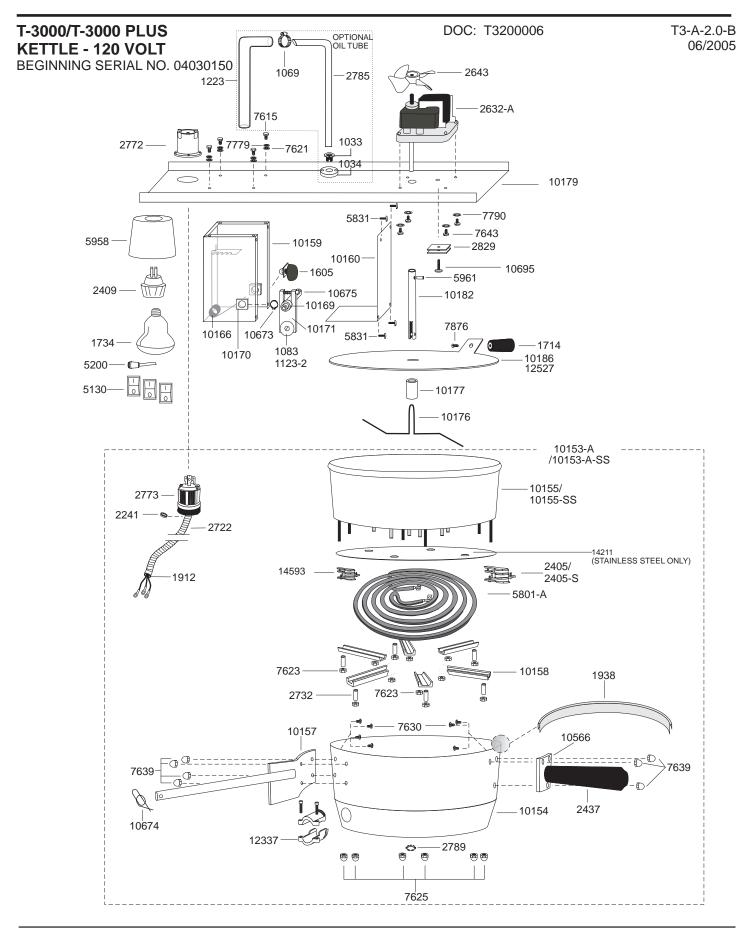
If you have any questions, contact your local distributor and if there are any additional questions, feel free to contact the Customer Service Department at C. Cretors and Company.

Additional copies of this manual can be obtained from C. Cretors and Company at the address listed below. Please provide model and serial number when requesting additional copies of this manual. There will be a nominal charge for additional copies.

Cretors guarantees this machine to be free of defects in parts, materials and workmanship for two years. Please take this time to fill out the factory registration card and return it to the factory to activate your warranty. If you have any questions concerning the Cretors' warranty, please contact your local distributor or the Customer Service Department at C. Cretors and Company.



C. CRETORS AND COMPANY 176 MITTEL DRIVE WOOD DALE, IL 60191 PHONE (847) 616-6900, (800) 228-1885, FAX (847) 616-6970 WEB SITE: http://www.cretors.com Email: postmaster@cretors.com



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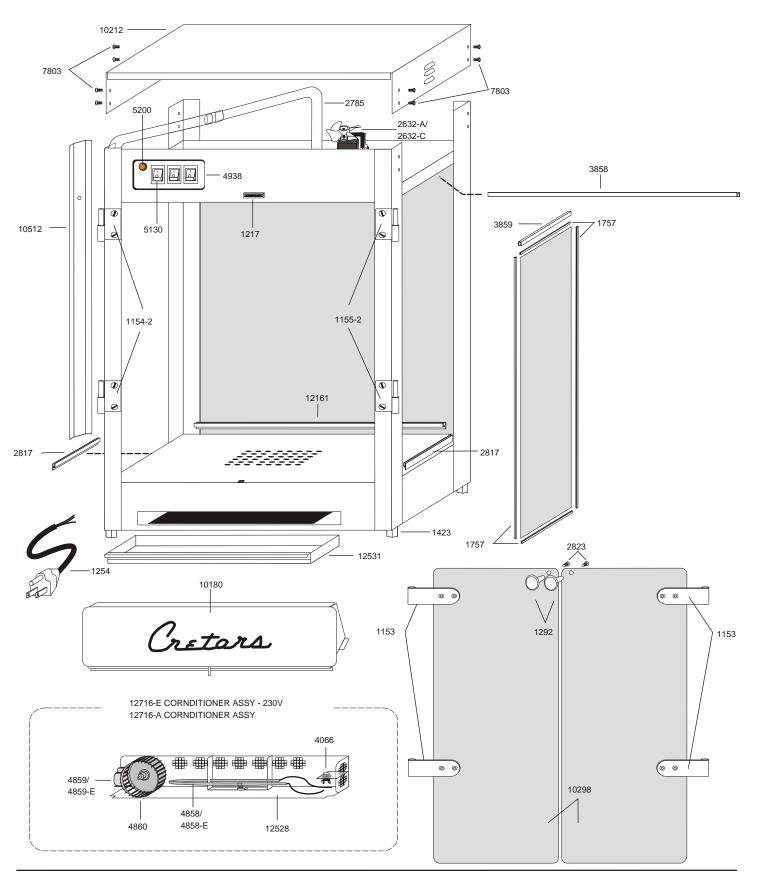
#### T-3000/T-3000 PLUS KETTLE - 120 VOLT

BEGINNING SERIAL NO. 04030150

T3-A-2.0-B 06/2005

1069	HOSE CLAMP	7639	1/4-20 CAP NUT	
1033	DISCHARGE TUBE LOCKNUT	7643	10-32 x 1/2 BINDING HEAD	
1034	DISCHARGE TUBE SUPPORT COLLAR	7779	1/4" SAE FLAT WASHER	
1083	SPRING ROLLER	7790	#10 STAR LOCKWASHER	
1123-2	PIVOT STUD WASHER	7876	10-32 x 1/4" SCREW	
1123	TUBING	10153-A C	10153-A COMPLETE KETTLE ASSY 120V	
1605	RUBBER FOOT W/ HARDWARE	10154	KETTLE RETAINER	
1714	KNOB	10155	PAN	
1734	250 WATT HEAT LAMP, 120V	10155-SS	STAINLESS STEEL PAN	
1912		10157	KETTLE BRACKET ASSY.	
1938	RETAINER GASKET-SOLD PER FT	10158	ELEMENT CLAMP	
2241	INSULATING SLEEVE	10159	SUPPORT COLUMN	
2405	THERMOSTAT-SALT	10160	COVER PLATE	
2405-S	THERMOSTAT-SUGAR	10166	KETTLE DUMP SPRING	
2409	SNAP IN PORCELAIN SOCKET	10169	DUMP SHAFT	
2632-A	MOTOR - 120 VOLT	10170	BEARING DUMP SHAFT	
2643	MOTOR FAN	10171	LEVELING ARM	
2722	KETTLE WIRE SET	10176	STIRRER BLADE	
2732	SPACER - KETTLE	10177	STIRRER SHAFT WEIGHT	
2772	RECEPTACLE	10179	STIFFENER	
2773	PLUG	10182	STIRRER SHAFT W/ SET SCREW	
2785	DISCHARGE TUBE	10186	KETTLE COVER	
2789	7/8" HOLE COVER	10566	DUMP HANDLE ASSY.	
2829	MAGNET CATCH - RECTANGULAR	10673	RETAINING RING	
5130	SWITCH - LIGHTED	10674	KETTLE SHAFT CLIP	
5200	INDICATOR LIGHT	10675	1/4 -20 x 1 SOCKET HEAD CAP SCREW	
5801-A	1500 WATT, 120V ELEMENT	10695	10-32 x 1-1/4 PHILLIPS HEAD SS.	
5831	8-32 x 1/4 SS TRUSS HEAD W/ NYLOK	12337	3/8" CONNECTOR NON-ROTATING	
5958	LAMP GUARD	12527	COVER- T-3000 PLUS (OIL HOLE)	
5961	SLOTTED SET SCREW	14211	DIFFUSER PLATE	
7615	1/4-20 x 3/4" HEX BOLT	14593	HIGH LIMIT	
7621	1/4" INTERNAL TOOTH LOCKWASHER			
7623	10-32 HEX NUT			
7625	10-32 HIGH CROWN CAP NUT			
7630	1/4-20 x 1/2" H. H.			

T-3000 PLUS CABINET BEGINNING SERIAL No.



C. CRETORS AND COMPANY 3243 N. CALIFORNIA AVENUE CHICAGO, IL 60618 PHONE: (773)588-1690, (800)228-1885, FAX: (773)588-2171 WEB SITE: http://www.cretors.com Email: postmaster @ cretors.com

#### T-3000 PLUS CABINET BEGINNING SERIAL No.

1153DOOR STRAP ONLY		CORNDITIONER ASSEMBLY			
1154DOOR HINGE & STRAP - LEFT		4066THERMOSTAT			
1154-2DOOR HINGE-ONLY - LEFT	12716-E	CORNDITIONER ASSY.			
1155DOOR HINGE - RIGHT & STRAP	12716-A	CORNDITIONER ASSY.			
1155-2DOOR HINGE-ONLY - RIGHT	12528	CORNDITIONER COVER			
1217RECTANGULAR MAGNETIC CATCH	4858ELEMENT CORN. 400W				
1254POWER SUPPLY CORD	4858-EELEMENT CORN. 400W - 230V				
1292CONCAVE (KNOB) W/ SCREW	4859MOTOR				
1296ROUND MAGNETIC CATCH	4859-EMOTOR - 230V				
1423COUNTER LEG	4860BLOWER MOTOR WHEEL				
1433 RUBBER TIPS					
1757GLASS CHANNEL (SOLD PER FOOT)					
2167CORD STRAIN RELIEF					
2414"POPCORN" DECAL (NOT SHOWN)					
10298PLEXIGLASS DOOR					
2817EXTRUSION GLASS CHANNEL-SS - 18-3/4					
2823DOOR KNOB SCREW					
3859SS - 20-3/8101286ANNEL					
4938SWITCHPLATE DECAL					
10576INSTRUCTECALS-					
2632-A MOTOR AGITATOR - 120V					
2632-C MOTOR AGITATOR - 230V					
10512FRONT INSIDE CORNER					
12531 CLEAN OUT DRAWER					
10180 DROP SHELF					
2448-A HEAT PAD 120V					
2448-E HEAT PAD 230V					
5130SWITCH - LIGHTED					
5200INDICATOR LIGHT					
2785DISCHARGE TUBE					
7803 6-32 X 3/8 PHIL. PAN HEAD					

T-3000 PLUS WIRING DIAGRAM - 120V 60Hz. BEGINING SERIAL NO.1008

DOC: T3PAr2

8/2010

